

APPENDIX B

Lab Reports



Analytical Resources, LLC
Analytical Chemists and Consultants

11 July 2022

Brian Tracy
GeoEngineers
17425 Union Hill Road Suite 250
Redmond, WA 98052

RE: RG Haley Site-Bellingham (0356-114-08)

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

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

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

Associated Work Order(s)
22F0267

Associated SDG ID(s)
N/A

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

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

Analytical Resources, LLC

Kelly Bottem For Shelly Fishel, Project Manager

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



Chain of Custody Record & Laboratory Analysis Request



Analytical Resources, LLC
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

ARI Assigned Number: 22F0267	Turn-around Requested: Standard	Date: 6/16/22
ARI Client Company: GeoEngineers	Phone: 206-239-3250	Page: 1 of 2
Client Contact: Brian Tracy		No. of Coolers: Cooler Temps:

Client Project Name: RG Haley PRDI	Analysis Requested						Notes/Comments	
Client Project #: 0050-11-00 00186-090-03	Samplers: Nate Solomon, Brittany Davis	NWTPH-Dx	NWTPH-Dx with acid silica gel cleanup	PAHs ¹ and PCP (EPA 8270E)	PAHs ¹ (EPA 8270E)	PCP (EPA 8041A)	Total Organic Carbon (SW 9060A)	

Sample ID	Date	Time	Matrix	Number of Containers	NWTPH-Dx	NWTPH-Dx with acid silica gel cleanup	PAHs ¹ and PCP (EPA 8270E)	PAHs ¹ (EPA 8270E)	PCP (EPA 8041A)	Total Organic Carbon (SW 9060A)		
Z1A-3-MS	6/14/22	1300	Sediment	3	X	X	X			X		
Z1A-6-MS	↓	1310	Sediment	↓	X	X	X			X		
Z1A-9-MS	6/15/22	1020	Sediment	↓	X	X	X			X		
Z1A-12-MS	↓	0955	Sediment	↓	X	X	X			X		
Z1A-3-PW	6/14/22	1330	Water	7	X			X	X	X		
Z1A-6-PW	↓	1340	Water	↓	X			X	X	X		
Z1A-9-PW	6/15/22	1030	Water	↓	X			X	X	X		
Z1A-12-PW	↓	1000	Water	↓	X			X	X	X		
DUP-1-MS	6/14/22	1020	Sed.	3	X	X	X			X		
DUP-1-PW	↓	1230	W	7	X			X	X	X		

Comments/Special Instructions ¹ PAHs list to include 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, fluoranthene, naphthalene, phenanthrene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene).	Relinquished by: (Signature) <i>Brittany Davis</i>	Received by: (Signature) <i>Orlo Amos</i>	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: BRITTANY DAVIS	Printed Name: Orlo Amos	Printed Name:	Printed Name:
	Company: GeoEngineers	Company: ARI	Company:	Company:
	Date & Time: 6/14/22 @ 1050	Date & Time: 6/16/22 1054	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22Fo267	Turn-around Requested: STD.	Page: 2 of 2
ARI Client Company: GeoEngineers	Phone: 206-229-3250	Date: 6/16/22
Client Contact: Brian Tracy	No. of Coolers:	Ice Present?
Client Project Name: RE Haley PRDI	Cooler Temps:	



Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested								Notes/Comments
					NWTPH - Dx	NWTPH - Dx w/ and silica gel cleanup	PAHs + PCP (EPA 8210E)	PAHs (EPA 8210E)	PCP (EPA 8041A)	TOC (SW 9060A)	Archive		
ZIB-1-MS	6/14/22	1015	Sediment	3	X	X	X				X		
ZIB-2-MS	↓	1030	↓	↓	X	X	X				X		
ZIB-3-MS	6/14/22	1505	↓	↓	X	X	X				X		
ZIB-4-MS	6/15/22	0945	↓	↓	X	X	X				X		
ZIB-1-PW	6/14/22	1110	W	7	X			X	X	X			
ZIB-2-PW	↓	1150	↓	↓	X			X	X	X			
ZIB-3-PW	6/15/22	0940	↓	↓	X			X	X	X			
ZIB-4-PW	↓	0950	↓	↓	X			X	X	X			
OCM-1-CAP-MS	↓	1150	Sed.	3								X	
OCM-2-CAP-MS	↓	1200	↓	↓								X	

Comments/Special Instructions	Relinquished by: (Signature) <i>Brittany Davis</i>	Received by: (Signature) <i>Orlo Amos</i>	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: BRITTANY DAVIS	Printed Name: Orlo Amos	Printed Name:	Printed Name:
	Company: GeoEngineers	Company: ARI	Company:	Company:
	Date & Time: 6/16/22 @ 1050	Date & Time: 6/16/22 1054	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



GeoEngineers
17425 Union Hill Road Suite 250
Redmond WA, 98052

Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
11-Jul-2022 15:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Z1A-3-MS	22F0267-01	Solid	14-Jun-2022 13:00	16-Jun-2022 10:54
Z1A-3-MS	22F0267-02	Solid	14-Jun-2022 13:00	16-Jun-2022 10:54
Z1A-6-MS	22F0267-03	Solid	14-Jun-2022 13:10	16-Jun-2022 10:54
Z1A-6-MS	22F0267-04	Solid	14-Jun-2022 13:10	16-Jun-2022 10:54
Z1A-9-MS	22F0267-05	Solid	15-Jun-2022 10:20	16-Jun-2022 10:54
Z1A-9-MS	22F0267-06	Solid	15-Jun-2022 10:20	16-Jun-2022 10:54
Z1A-12-MS	22F0267-07	Solid	15-Jun-2022 09:55	16-Jun-2022 10:54
Z1A-12-MS	22F0267-08	Solid	15-Jun-2022 09:55	16-Jun-2022 10:54
Z1A-3-PW	22F0267-09	Water	14-Jun-2022 13:30	16-Jun-2022 10:54
Z1A-6-PW	22F0267-10	Water	14-Jun-2022 13:40	16-Jun-2022 10:54
Z1A-9-PW	22F0267-11	Water	15-Jun-2022 10:30	16-Jun-2022 10:54
Z1A-12-PW	22F0267-12	Water	15-Jun-2022 10:00	16-Jun-2022 10:54
DUP-1-MS	22F0267-13	Solid	14-Jun-2022 10:20	16-Jun-2022 10:54
DUP-1-MS	22F0267-14	Solid	14-Jun-2022 10:20	16-Jun-2022 10:54
DUP-1-PW	22F0267-15	Water	15-Jun-2022 12:30	16-Jun-2022 10:54
Z1B-1-MS	22F0267-16	Solid	14-Jun-2022 10:15	16-Jun-2022 10:54
Z1B-1-MS	22F0267-17	Solid	14-Jun-2022 10:15	16-Jun-2022 10:54
Z1B-2-MS	22F0267-18	Solid	14-Jun-2022 10:30	16-Jun-2022 10:54
Z1B-2-MS	22F0267-19	Solid	14-Jun-2022 10:30	16-Jun-2022 10:54
Z1B-3-MS	22F0267-20	Solid	14-Jun-2022 15:05	16-Jun-2022 10:54
Z1B-3-MS	22F0267-21	Solid	14-Jun-2022 15:05	16-Jun-2022 10:54
Z1B-4-MS	22F0267-22	Solid	15-Jun-2022 09:45	16-Jun-2022 10:54
Z1B-4-MS	22F0267-23	Solid	15-Jun-2022 09:45	16-Jun-2022 10:54
Z1B-1-PW	22F0267-24	Water	14-Jun-2022 11:10	16-Jun-2022 10:54
Z1B-2-PW	22F0267-25	Water	14-Jun-2022 11:50	16-Jun-2022 10:54
Z1B-3-PW	22F0267-26	Water	15-Jun-2022 09:40	16-Jun-2022 10:54
Z1B-4-PW	22F0267-27	Water	15-Jun-2022 09:50	16-Jun-2022 10:54



GeoEngineers
17425 Union Hill Road Suite 250
Redmond WA, 98052

Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
11-Jul-2022 15:40

Work Order Case Narrative

Chlorinated Phenols - EPA Method SW8041A

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

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits with the exception of surrogates flagged on the associated forms.

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

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

Semivolatiles - EPA Method SW8270E

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

Initial and continuing calibrations were within method requirements with the exception of all associated "Q" flagged analytes which are out of control low in the CCAL for pentachlorophenol in the solids analysis. All associated samples that contain analyte have been flagged with a "Q" qualifier.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits with the exception of analytes flagged on the associated forms.

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

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

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits with the exception of surrogates flagged on the associated forms.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

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

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

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



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11-Jul-2022 15:40

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

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits with the exception of analytes flagged on the associated forms.

Wet Chemistry

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

Initial and continuing calibrations were within method requirements.

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

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

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits with the exception of analytes flagged on the associated forms.



WORK ORDER

22F0267

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: GeoEngineers	Project Manager: Shelly Fishel
Project: RG Haley Site-Bellingham	Project Number: RG Haley Site-Bellingham May

Preservation Confirmation

Container ID	Container Type	pH
22F0267-01 A	Glass WM, Clear, 8 oz	
22F0267-01 B	Glass WM, Clear, 4 oz	
22F0267-02 A	Glass WM, Clear, 8 oz	
22F0267-03 A	Glass WM, Clear, 8 oz	
22F0267-03 B	Glass WM, Clear, 4 oz	
22F0267-04 A	Glass WM, Clear, 8 oz	
22F0267-05 A	Glass WM, Clear, 8 oz	
22F0267-05 B	Glass WM, Clear, 4 oz	
22F0267-06 A	Glass WM, Clear, 8 oz	
22F0267-07 A	Glass WM, Clear, 8 oz	
22F0267-07 B	Glass WM, Clear, 4 oz	
22F0267-08 A	Glass WM, Clear, 8 oz	
22F0267-09 A	Glass NM, Amber, 500 mL	
22F0267-09 B	Glass NM, Amber, 500 mL	
22F0267-09 C	Glass NM, Amber, 500 mL	
22F0267-09 D	Glass NM, Amber, 500 mL	
22F0267-09 E	Glass NM, Amber, 500 mL, HCl	CC
22F0267-09 F	Glass NM, Amber, 500 mL, HCl	CC
22F0267-09 G	Glass NM, Amber, 250 mL, 9N H2SO4	CC
22F0267-10 A	Glass NM, Amber, 500 mL	
22F0267-10 B	Glass NM, Amber, 500 mL	
22F0267-10 C	Glass NM, Amber, 500 mL	
22F0267-10 D	Glass NM, Amber, 500 mL	
22F0267-10 E	Glass NM, Amber, 500 mL, HCl	CC
22F0267-10 F	Glass NM, Amber, 500 mL, HCl	CC
22F0267-10 G	Glass NM, Amber, 250 mL, 9N H2SO4	CC
22F0267-11 A	Glass NM, Amber, 500 mL	
22F0267-11 B	Glass NM, Amber, 500 mL	
22F0267-11 C	Glass NM, Amber, 500 mL	
22F0267-11 D	Glass NM, Amber, 500 mL	
22F0267-11 E	Glass NM, Amber, 500 mL, HCl	CC
22F0267-11 F	Glass NM, Amber, 500 mL, HCl	CC
22F0267-11 G	Glass NM, Amber, 250 mL, 9N H2SO4	CC
22F0267-12 A	Glass NM, Amber, 500 mL	CC

PASS





WORK ORDER

22F0267

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: GeoEngineers

Project Manager: Shelly Fishel

Project: RG Haley Site-Bellingham

Project Number: RG Haley Site-Bellingham May

22F0267-12 B	Glass NM, Amber, 500 mL		
22F0267-12 C	Glass NM, Amber, 500 mL		
22F0267-12 D	Glass NM, Amber, 500 mL		
22F0267-12 E	Glass NM, Amber, 500 mL, HCl	CC	Pass
22F0267-12 F	Glass NM, Amber, 500 mL, HCl	CC	
22F0267-12 G	Glass NM, Amber, 250 mL, 9N H2SO4	CC	
22F0267-13 A	Glass WM, Clear, 8 oz		
22F0267-13 B	Glass WM, Clear, 4 oz		
22F0267-14 A	Glass WM, Clear, 8 oz		
22F0267-15 A	Glass NM, Amber, 500 mL		
22F0267-15 B	Glass NM, Amber, 500 mL		
22F0267-15 C	Glass NM, Amber, 500 mL		
22F0267-15 D	Glass NM, Amber, 500 mL		
22F0267-15 E	Glass NM, Amber, 500 mL, HCl	CC	
22F0267-15 F	Glass NM, Amber, 500 mL, HCl	CC	
22F0267-15 G	Glass NM, Amber, 250 mL, 9N H2SO4	CC	
22F0267-16 A	Glass WM, Clear, 8 oz		
22F0267-16 B	Glass WM, Clear, 4 oz		
22F0267-17 A	Glass WM, Clear, 8 oz		
22F0267-18 A	Glass WM, Clear, 8 oz		
22F0267-18 B	Glass WM, Clear, 4 oz		
22F0267-19 A	Glass WM, Clear, 8 oz		
22F0267-20 A	Glass WM, Clear, 8 oz		
22F0267-20 B	Glass WM, Clear, 4 oz		
22F0267-21 A	Glass WM, Clear, 8 oz		
22F0267-22 A	Glass WM, Clear, 8 oz		
22F0267-22 B	Glass WM, Clear, 4 oz		
22F0267-23 A	Glass WM, Clear, 8 oz		
22F0267-24 A	Glass NM, Amber, 500 mL		
22F0267-24 B	Glass NM, Amber, 500 mL		
22F0267-24 C	Glass NM, Amber, 500 mL		
22F0267-24 D	Glass NM, Amber, 500 mL		
22F0267-24 E	Glass NM, Amber, 500 mL, HCl	CC	
22F0267-24 F	Glass NM, Amber, 500 mL, HCl	CC	
22F0267-24 G	Glass NM, Amber, 250 mL, 9N H2SO4	CC	
22F0267-25 A	Glass NM, Amber, 500 mL		



WORK ORDER

22F0267

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: GeoEngineers	Project Manager: Shelly Fishel
Project: RG Haley Site-Bellingham	Project Number: RG Haley Site-Bellingham May

22F0267-25 B	Glass NM, Amber, 500 mL		
22F0267-25 C	Glass NM, Amber, 500 mL		
22F0267-25 D	Glass NM, Amber, 500 mL		
22F0267-25 E	Glass NM, Amber, 500 mL, HCl	C2	PASS
22F0267-25 F	Glass NM, Amber, 500 mL, HCl	C2	
22F0267-25 G	Glass NM, Amber, 250 mL, 9N H2SO4	C2	
22F0267-26 A	Glass NM, Amber, 500 mL		
22F0267-26 B	Glass NM, Amber, 500 mL		
22F0267-26 C	Glass NM, Amber, 500 mL		
22F0267-26 D	Glass NM, Amber, 500 mL		
22F0267-26 E	Glass NM, Amber, 500 mL, HCl	C2	
22F0267-26 F	Glass NM, Amber, 500 mL, HCl	C2	
22F0267-26 G	Glass NM, Amber, 250 mL, 9N H2SO4	C2	
22F0267-27 A	Glass NM, Amber, 500 mL		
22F0267-27 B	Glass NM, Amber, 500 mL		
22F0267-27 C	Glass NM, Amber, 500 mL		
22F0267-27 D	Glass NM, Amber, 500 mL		
22F0267-27 E	Glass NM, Amber, 500 mL, HCl	C2	
22F0267-27 F	Glass NM, Amber, 500 mL, HCl	C2	
22F0267-27 G	Glass NM, Amber, 250 mL, 9N H2SO4	C2	
22F0267-28 A	Glass WM, Clear, 8 oz		
22F0267-28 B	Glass WM, Clear, 4 oz		
22F0267-28 C	Glass WM, Clear, 8 oz		
22F0267-29 A	Glass WM, Clear, 8 oz		
22F0267-29 B	Glass WM, Clear, 4 oz		
22F0267-29 C	Glass WM, Clear, 8 oz		

Preservation Confirmed By

6/16/22

Date



Cooler Receipt Form

ARI Client: Geoengineers
 COC No(s): _____ (NA)
 Assigned ARI Job No: 22F0267

Project Name: R6 Haley
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: _____ (NA)

Preliminary Examination Phase:

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

Time 1054 2.8 4.3 5.8 1.3
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 9708

Cooler Accepted by: Carlo Amis Date: 6/16/22 Time: 1054

Complete custody forms and attach all shipping documents

Log-In Phase:

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

Samples Logged by: Ken Date: 6/16/22 Time: 1258 Labels checked by: _____

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



GeoEngineers
17425 Union Hill Road Suite 250
Redmond WA, 98052

Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
11-Jul-2022 15:40

Z1A-3-MS
22F0267-01 (Solid)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/14/2022 13:00
Instrument: NT10 Analyst: VTS Analyzed: 06/30/2022 18:05

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 19.58 g (wet)	Extract ID: 22F0267-01 A 02
	Preparation Batch: BKF0469	Final Volume: 1 mL	Dry Weight: 10.01 g
	Prepared: 06/21/2022		% Solids: 51.14
Sample Cleanup:	Cleanup Method: GPC	Initial Volume: 1 uL	Extract ID: 22F0267-01 A 02
	Cleanup Batch: CKF0212	Final Volume: 1 uL	
	Cleaned: 28-Jun-2022		

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	4.2	20.0	67.1	ug/kg	
2-Methylnaphthalene	91-57-6	1	4.5	20.0	18.4	ug/kg	J
Acenaphthene	83-32-9	1	5.2	20.0	5.6	ug/kg	J
Pentachlorophenol	87-86-5	1	31.2	99.9	ND	ug/kg	U
Phenanthrene	85-01-8	1	8.7	20.0	69.7	ug/kg	
Fluoranthene	206-44-0	1	6.1	20.0	115	ug/kg	
Benzo(a)anthracene	56-55-3	1	6.0	20.0	32.9	ug/kg	
Chrysene	218-01-9	1	6.1	20.0	51.3	ug/kg	
Benzo(b)fluoranthene	205-99-2	1	7.0	20.0	32.6	ug/kg	
Benzo(k)fluoranthene	207-08-9	1	5.0	20.0	28.6	ug/kg	
Benzo(a)pyrene	50-32-8	1	4.2	20.0	37.7	ug/kg	
Indeno(1,2,3-cd)pyrene	193-39-5	1	14.6	20.0	20.0	ug/kg	
Dibenzo(a,h)anthracene	53-70-3	1	17.2	20.0	ND	ug/kg	U
1-Methylnaphthalene	90-12-0	1	5.3	20.0	13.1	ug/kg	J
<i>Surrogate: 2-Fluorophenol</i>					27-120 %	59.8	%
<i>Surrogate: Phenol-d5</i>					29-120 %	61.7	%
<i>Surrogate: 2-Chlorophenol-d4</i>					31-120 %	88.5	%
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>					32-120 %	93.4	%
<i>Surrogate: Nitrobenzene-d5</i>					30-120 %	92.8	%
<i>Surrogate: 2-Fluorobiphenyl</i>					35-120 %	101	%
<i>Surrogate: 2,4,6-Tribromophenol</i>					24-134 %	103	%
<i>Surrogate: p-Terphenyl-d14</i>					37-120 %	116	%



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1A-3-MS
22F0267-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 13:00
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 18:35

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave) Extract ID: 22F0267-01 A 01
Preparation Batch: BKF0467 Dry Weight: 5.14 g
Prepared: 06/21/2022 Final Volume: 1 mL % Solids: 51.14

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	1	9.73	123	mg/kg	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	19.5	365	mg/kg	
<i>Surrogate: o-Terphenyl</i>			50-150 %	83.8	%	



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Z1A-3-MS
22F0267-01 (Solid)

Wet Chemistry

Method: SM 2540 G-97 Sampled: 06/14/2022 13:00
Instrument: BAL2 Analyst: DOE Analyzed: 06/21/2022 08:01

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: No Prep Wet Chem	Sample Size: 5 g (wet)	Extract ID: 22F0267-01
	Preparation Batch: BKF0465	Final Volume: 5 g	Dry Weight: 2.81 g
	Prepared: 06/21/2022		% Solids: 56.24

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	56.24	%	



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Z1A-3-MS
22F0267-01RE1 (Solid)

Wet Chemistry

Method: EPA 9060A m Sampled: 06/14/2022 13:00
Instrument: TOC Cube Analyst: DOE Analyzed: 06/22/2022 13:58

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: Plumb 1981	Sample Size: 0.0973 g (wet)	Extract ID: 22F0267-01RE1 A
	Preparation Batch: BKF0437	Final Volume: 0.0973 g	Dry Weight: 0.05 g
	Prepared: 06/20/2022		% Solids: 56.24

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.02	0.02	9.41	%	



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Z1A-3-MS
22F0267-02 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 13:00
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 12:13

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave) Preparation Batch: BKF0468 Prepared: 06/21/2022	Sample Size: 10.01 g (wet) Final Volume: 1 mL	Extract ID: 22F0267-02 A 01 Dry Weight: 4.35 g % Solids: 43.44
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CKF0171 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-02 A 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CKF0170 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-02 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	1	11.5	91.4	mg/kg	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	23.0	407	mg/kg	
<i>Surrogate: o-Terphenyl</i>			50-150 %	68.9	%	



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Z1A-6-MS
22F0267-03 (Solid)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/14/2022 13:10
Instrument: NT10 Analyst: VTS Analyzed: 06/30/2022 20:02

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Extract ID: 22F0267-03 A 02
	Preparation Batch: BKF0469	Dry Weight: 10.01 g
	Sample Size: 33.28 g (wet)	% Solids: 30.08
	Prepared: 06/21/2022	Final Volume: 1 mL
Sample Cleanup:	Cleanup Method: GPC	Extract ID: 22F0267-03 A 02
	Cleanup Batch: CKF0212	Initial Volume: 1 uL
	Cleaned: 28-Jun-2022	Final Volume: 1 uL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	4.2	20.0	639	ug/kg	
2-Methylnaphthalene	91-57-6	1	4.5	20.0	98.1	ug/kg	
Acenaphthene	83-32-9	1	5.2	20.0	163	ug/kg	
Pentachlorophenol	87-86-5	1	31.2	99.9	ND	ug/kg	U
Phenanthrene	85-01-8	1	8.7	20.0	1410	ug/kg	
Fluoranthene	206-44-0	1	6.1	20.0	1320	ug/kg	
Benzo(a)anthracene	56-55-3	1	6.0	20.0	919	ug/kg	
Chrysene	218-01-9	1	6.1	20.0	1230	ug/kg	
Benzo(b)fluoranthene	205-99-2	1	7.0	20.0	923	ug/kg	
Benzo(k)fluoranthene	207-08-9	1	5.0	20.0	1000	ug/kg	
Benzo(a)pyrene	50-32-8	1	4.2	20.0	1350	ug/kg	
Indeno(1,2,3-cd)pyrene	193-39-5	1	14.6	20.0	209	ug/kg	
Dibenzo(a,h)anthracene	53-70-3	1	17.2	20.0	80.6	ug/kg	
1-Methylnaphthalene	90-12-0	1	5.3	20.0	62.3	ug/kg	
<i>Surrogate: 2-Fluorophenol</i>					<i>27-120 %</i>	<i>63.6</i>	<i>%</i>
<i>Surrogate: Phenol-d5</i>					<i>29-120 %</i>	<i>64.7</i>	<i>%</i>
<i>Surrogate: 2-Chlorophenol-d4</i>					<i>31-120 %</i>	<i>79.9</i>	<i>%</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>					<i>32-120 %</i>	<i>82.9</i>	<i>%</i>
<i>Surrogate: Nitrobenzene-d5</i>					<i>30-120 %</i>	<i>77.3</i>	<i>%</i>
<i>Surrogate: 2-Fluorobiphenyl</i>					<i>35-120 %</i>	<i>99.0</i>	<i>%</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>					<i>24-134 %</i>	<i>64.6</i>	<i>%</i>
<i>Surrogate: p-Terphenyl-d14</i>					<i>37-120 %</i>	<i>52.9</i>	<i>%</i>



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Z1A-6-MS
22F0267-03 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 13:10
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 18:56

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave) Extract ID: 22F0267-03 A 01
Preparation Batch: BKF0467 Dry Weight: 3.01 g
Prepared: 06/21/2022 Final Volume: 1 mL % Solids: 30.08

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	10	166	1630	mg/kg	D
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	10	332	2780	mg/kg	D
<i>Surrogate: o-Terphenyl</i>			50-150 %	75.1	%	



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Z1A-6-MS
22F0267-03 (Solid)

Wet Chemistry

Method: SM 2540 G-97 Sampled: 06/14/2022 13:10
Instrument: BAL2 Analyst: DOE Analyzed: 06/21/2022 08:01

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: No Prep Wet Chem	Sample Size: 5 g (wet)	Extract ID: 22F0267-03
	Preparation Batch: BKF0465	Final Volume: 5 g	Dry Weight: 2.22 g
	Prepared: 06/21/2022		% Solids: 44.47

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	44.47	%	



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Z1A-6-MS
22F0267-03RE1 (Solid)

Wet Chemistry

Method: EPA 9060A m Sampled: 06/14/2022 13:10
Instrument: TOC Cube Analyst: DOE Analyzed: 06/22/2022 15:58

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: Plumb 1981	Sample Size: 0.0739 g (wet)	Extract ID: 22F0267-03RE1 A
	Preparation Batch: BKF0437	Final Volume: 0.0739 g	Dry Weight: 0.03 g
	Prepared: 06/20/2022		% Solids: 44.47

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.02	0.02	12.7	%	



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Z1A-6-MS
22F0267-04 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 13:10
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 12:34

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave) Preparation Batch: BKF0468 Prepared: 06/21/2022	Sample Size: 10.03 g (wet) Final Volume: 1 mL	Extract ID: 22F0267-04 A 01 Dry Weight: 3.80 g % Solids: 37.91
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CKF0171 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-04 A 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CKF0170 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-04 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	10	131	937	mg/kg	D
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	10	263	1840	mg/kg	D
<i>Surrogate: o-Terphenyl</i>			50-150 %	76.4	%	



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Project Manager: Brian Tracy

Reported:
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Z1A-9-MS
22F0267-05 (Solid)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/15/2022 10:20
Instrument: NT10 Analyst: VTS Analyzed: 06/30/2022 20:41

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Extract ID: 22F0267-05 A 02
	Preparation Batch: BKF0469	Dry Weight: 10.04 g
	Sample Size: 12.66 g (wet)	% Solids: 79.27
	Prepared: 06/21/2022	Final Volume: 1 mL
Sample Cleanup:	Cleanup Method: GPC	Extract ID: 22F0267-05 A 02
	Cleanup Batch: CKF0212	Initial Volume: 1 uL
	Cleaned: 28-Jun-2022	Final Volume: 1 uL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	4.2	19.9	70.8	ug/kg	
2-Methylnaphthalene	91-57-6	1	4.5	19.9	46.2	ug/kg	
Acenaphthene	83-32-9	1	5.2	19.9	10.1	ug/kg	J
Pentachlorophenol	87-86-5	1	31.1	99.6	113	ug/kg	Q
Phenanthrene	85-01-8	1	8.7	19.9	129	ug/kg	
Fluoranthene	206-44-0	1	6.1	19.9	161	ug/kg	
Benzo(a)anthracene	56-55-3	1	5.9	19.9	60.5	ug/kg	
Chrysene	218-01-9	1	6.0	19.9	90.1	ug/kg	
Benzo(b)fluoranthene	205-99-2	1	7.0	19.9	48.7	ug/kg	
Benzo(k)fluoranthene	207-08-9	1	5.0	19.9	67.1	ug/kg	
Benzo(a)pyrene	50-32-8	1	4.2	19.9	70.0	ug/kg	
Indeno(1,2,3-cd)pyrene	193-39-5	1	14.6	19.9	30.2	ug/kg	
Dibenzo(a,h)anthracene	53-70-3	1	17.2	19.9	ND	ug/kg	U
1-Methylnaphthalene	90-12-0	1	5.2	19.9	29.3	ug/kg	
<i>Surrogate: 2-Fluorophenol</i>					27-120 %	67.1	%
<i>Surrogate: Phenol-d5</i>					29-120 %	69.4	%
<i>Surrogate: 2-Chlorophenol-d4</i>					31-120 %	90.3	%
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>					32-120 %	92.8	%
<i>Surrogate: Nitrobenzene-d5</i>					30-120 %	88.9	%
<i>Surrogate: 2-Fluorobiphenyl</i>					35-120 %	105	%
<i>Surrogate: 2,4,6-Tribromophenol</i>					24-134 %	91.7	%
<i>Surrogate: p-Terphenyl-d14</i>					37-120 %	88.8	%



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Z1A-9-MS
22F0267-05 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/15/2022 10:20
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 19:18

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave) Extract ID: 22F0267-05 A 01
Preparation Batch: BKF0467 Dry Weight: 7.93 g
Prepared: 06/21/2022 Final Volume: 1 mL % Solids: 79.27

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	1	6.30	35.5	mg/kg	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	12.6	85.9	mg/kg	
<i>Surrogate: o-Terphenyl</i>			50-150 %	86.3	%	



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Z1A-9-MS
22F0267-05 (Solid)

Wet Chemistry

Method: EPA 9060A m Sampled: 06/15/2022 10:20
Instrument: TOC Cube Analyst: DOE Analyzed: 06/20/2022 22:10

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: Plumb 1981	Sample Size: 0.2735 g (wet)	Extract ID: 22F0267-05 A
	Preparation Batch: BKF0437	Final Volume: 0.2735 g	Dry Weight: 0.22 g
	Prepared: 06/20/2022		% Solids: 79.31

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.02	0.02	2.28	%	



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Z1A-9-MS
22F0267-05 (Solid)

Wet Chemistry

Method: SM 2540 G-97 Sampled: 06/15/2022 10:20
Instrument: BAL2 Analyst: DOE Analyzed: 06/21/2022 08:01

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: No Prep Wet Chem	Sample Size: 5 g (wet)	Extract ID: 22F0267-05
	Preparation Batch: BKF0465	Final Volume: 5 g	Dry Weight: 3.97 g
	Prepared: 06/21/2022		% Solids: 79.31

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	79.31	%	



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Z1A-9-MS
22F0267-06 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/15/2022 10:20
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 12:56

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave) Preparation Batch: BKF0468 Prepared: 06/21/2022	Sample Size: 10.05 g (wet) Final Volume: 1 mL	Extract ID: 22F0267-06 A 01 Dry Weight: 7.89 g % Solids: 78.51
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CKF0171 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-06 A 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CKF0170 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-06 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	1	6.34	56.8	mg/kg	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	12.7	209	mg/kg	
<i>Surrogate: o-Terphenyl</i>			50-150 %	82.8	%	



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Z1A-12-MS
22F0267-07 (Solid)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/15/2022 09:55
Instrument: NT10 Analyst: VTS Analyzed: 06/30/2022 21:20

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 12.06 g (wet)	Extract ID: 22F0267-07 A 02
	Preparation Batch: BKF0469	Final Volume: 1 mL	Dry Weight: 10.04 g
	Prepared: 06/21/2022		% Solids: 83.24
Sample Cleanup:	Cleanup Method: GPC	Initial Volume: 1 uL	Extract ID: 22F0267-07 A 02
	Cleanup Batch: CKF0212	Final Volume: 1 uL	
	Cleaned: 28-Jun-2022		

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	4.2	19.9	36.2	ug/kg	
2-Methylnaphthalene	91-57-6	1	4.5	19.9	49.0	ug/kg	
Acenaphthene	83-32-9	1	5.2	19.9	86.5	ug/kg	
Pentachlorophenol	87-86-5	1	31.1	99.6	205	ug/kg	Q
Phenanthrene	85-01-8	1	8.7	19.9	124	ug/kg	
Fluoranthene	206-44-0	1	6.1	19.9	226	ug/kg	
Benzo(a)anthracene	56-55-3	1	5.9	19.9	73.7	ug/kg	
Chrysene	218-01-9	1	6.0	19.9	107	ug/kg	
Benzo(b)fluoranthene	205-99-2	1	7.0	19.9	132	ug/kg	
Benzo(k)fluoranthene	207-08-9	1	5.0	19.9	117	ug/kg	
Benzo(a)pyrene	50-32-8	1	4.2	19.9	162	ug/kg	
Indeno(1,2,3-cd)pyrene	193-39-5	1	14.6	19.9	52.0	ug/kg	
Dibenzo(a,h)anthracene	53-70-3	1	17.2	19.9	22.2	ug/kg	
1-Methylnaphthalene	90-12-0	1	5.2	19.9	157	ug/kg	
<i>Surrogate: 2-Fluorophenol</i>					27-120 %	68.5	%
<i>Surrogate: Phenol-d5</i>					29-120 %	69.1	%
<i>Surrogate: 2-Chlorophenol-d4</i>					31-120 %	90.6	%
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>					32-120 %	91.1	%
<i>Surrogate: Nitrobenzene-d5</i>					30-120 %	90.7	%
<i>Surrogate: 2-Fluorobiphenyl</i>					35-120 %	129	%
<i>Surrogate: 2,4,6-Tribromophenol</i>					24-134 %	68.3	%
<i>Surrogate: p-Terphenyl-d14</i>					37-120 %	102	%



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Z1A-12-MS
22F0267-07 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/15/2022 09:55
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 19:39

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave) Extract ID: 22F0267-07 A 01
Preparation Batch: BKF0467 Dry Weight: 8.35 g
Prepared: 06/21/2022 Final Volume: 1 mL % Solids: 83.24

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	1	5.99	293	mg/kg	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	12.0	72.5	mg/kg	
<i>Surrogate: o-Terphenyl</i>			50-150 %	83.0	%	



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Z1A-12-MS
22F0267-07 (Solid)

Wet Chemistry

Method: EPA 9060A m Sampled: 06/15/2022 09:55
Instrument: TOC Cube Analyst: DOE Analyzed: 06/20/2022 23:40

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: Plumb 1981	Sample Size: 0.2779 g (wet)	Extract ID: 22F0267-07 A
	Preparation Batch: BKF0437	Final Volume: 0.2779 g	Dry Weight: 0.21 g
	Prepared: 06/20/2022		% Solids: 76.93

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.02	0.02	0.37	%	



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Z1A-12-MS
22F0267-07 (Solid)

Wet Chemistry

Method: SM 2540 G-97 Sampled: 06/15/2022 09:55
Instrument: BAL2 Analyst: DOE Analyzed: 06/21/2022 08:01

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: No Prep Wet Chem	Sample Size: 5 g (wet)	Extract ID: 22F0267-07
	Preparation Batch: BKF0465	Final Volume: 5 g	Dry Weight: 3.85 g
	Prepared: 06/21/2022		% Solids: 76.93

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	76.93	%	



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Z1A-12-MS
22F0267-08 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/15/2022 09:55
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 13:59

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave) Preparation Batch: BKF0468 Prepared: 06/21/2022	Sample Size: 10.02 g (wet) Final Volume: 1 mL	Extract ID: 22F0267-08 A 01 Dry Weight: 8.23 g % Solids: 82.14
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CKF0171 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-08 A 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CKF0170 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-08 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	5	30.4	443	mg/kg	D
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	5	60.8	100	mg/kg	D
<i>Surrogate: o-Terphenyl</i>			50-150 %	90.0	%	



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1A-3-PW
22F0267-09 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/14/2022 13:30
Instrument: NT6 Analyst: JZ Analyzed: 06/22/2022 17:19

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 22F0267-09 C 01
Preparation Batch: BKF0450 Sample Size: 500 mL
Prepared: 06/20/2022 Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.2	1.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.2	1.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.3	1.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.2	1.0	ND	ug/L	U
Fluoranthene	206-44-0	1	0.4	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.4	1.0	ND	ug/L	U
Chrysene	218-01-9	1	0.4	1.0	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.4	1.0	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.4	1.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.4	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.4	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.3	1.0	ND	ug/L	U

Surrogate: 2-Fluorophenol	33-120 %	80.9 %
Surrogate: Phenol-d5	38-120 %	79.6 %
Surrogate: 2-Chlorophenol-d4	41-120 %	81.8 %
Surrogate: 1,2-Dichlorobenzene-d4	20-120 %	78.0 %
Surrogate: Nitrobenzene-d5	27-120 %	83.3 %
Surrogate: 2-Fluorobiphenyl	33-120 %	82.1 %
Surrogate: 2,4,6-Tribromophenol	52-120 %	93.7 %
Surrogate: p-Terphenyl-d14	28-120 %	81.3 %



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Z1A-3-PW
22F0267-09 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 13:30
Instrument: FID4 Analyst: CTO Analyzed: 06/24/2022 18:56

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-09 E 01
Preparation Batch: BKF0451 Sample Size: 500 mL
Prepared: 06/22/2022 Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	ND	mg/L	U
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
<i>Surrogate: o-Terphenyl</i>			50-150 %	93.5	%	



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1A-3-PW
22F0267-09 (Water)

Phenols

Method: EPA 8041A Sampled: 06/14/2022 13:30
Instrument: ECD8 Analyst: YZ Analyzed: 06/25/2022 13:22

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-09 A 01
Preparation Batch: BKF0449 Sample Size: 500 mL
Prepared: 06/21/2022 Final Volume: 50 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Pentachlorophenol	87-86-5	1	0.09	0.25	ND	ug/L	U
<i>Surrogate: 2,4,6-Tribromophenol</i>				26-120 %	70.4	%	
<i>Surrogate: 2,4,6-Tribromophenol [2C]</i>				26-120 %	100	%	



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Z1A-3-PW
22F0267-09 (Water)

Wet Chemistry

Method: EPA 9060A Sampled: 06/14/2022 13:30
Instrument: TOC-LCSH Analyst: RMS Analyzed: 06/29/2022 00:20

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22F0267-09 G
Preparation Batch: BKF0658 Sample Size: 20 mL
Prepared: 06/28/2022 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		5	2.50	2.50	6.72	mg/L	D



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Z1A-6-PW
22F0267-10 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/14/2022 13:40
Instrument: NT6 Analyst: JZ Analyzed: 06/22/2022 17:53

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 22F0267-10 C 01
Preparation Batch: BKF0450 Sample Size: 500 mL
Prepared: 06/20/2022 Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.2	1.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.2	1.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.3	1.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.2	1.0	ND	ug/L	U
Fluoranthene	206-44-0	1	0.4	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.4	1.0	ND	ug/L	U
Chrysene	218-01-9	1	0.4	1.0	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.4	1.0	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.4	1.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.4	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.4	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.3	1.0	ND	ug/L	U

Surrogate: 2-Fluorophenol	33-120 %	78.8 %
Surrogate: Phenol-d5	38-120 %	77.5 %
Surrogate: 2-Chlorophenol-d4	41-120 %	79.9 %
Surrogate: 1,2-Dichlorobenzene-d4	20-120 %	77.8 %
Surrogate: Nitrobenzene-d5	27-120 %	83.3 %
Surrogate: 2-Fluorobiphenyl	33-120 %	82.1 %
Surrogate: 2,4,6-Tribromophenol	52-120 %	95.0 %
Surrogate: p-Terphenyl-d14	28-120 %	75.3 %



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Z1A-6-PW
22F0267-10 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 13:40
Instrument: FID4 Analyst: CTO Analyzed: 06/24/2022 19:16

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-10 E 01
Preparation Batch: BKF0451 Sample Size: 500 mL
Prepared: 06/22/2022 Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DRO	DRO	1	0.100	0.116	mg/L	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	0.200	0.270	mg/L	
<i>Surrogate: o-Terphenyl</i>			50-150 %	97.0	%	



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1A-6-PW
22F0267-10 (Water)

Phenols

Method: EPA 8041A Sampled: 06/14/2022 13:40
Instrument: ECD8 Analyst: YZ Analyzed: 06/25/2022 13:40

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-10 A 01
Preparation Batch: BKF0449 Sample Size: 500 mL
Prepared: 06/21/2022 Final Volume: 50 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Pentachlorophenol	87-86-5	1	0.09	0.25	ND	ug/L	U
<i>Surrogate: 2,4,6-Tribromophenol</i>				26-120 %	77.9	%	
<i>Surrogate: 2,4,6-Tribromophenol [2C]</i>				26-120 %	102	%	



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Z1A-6-PW
22F0267-10 (Water)

Wet Chemistry

Method: EPA 9060A Sampled: 06/14/2022 13:40
Instrument: TOC-LCSH Analyst: RMS Analyzed: 06/29/2022 01:51

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22F0267-10 G
Preparation Batch: BKF0658 Sample Size: 20 mL
Prepared: 06/28/2022 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	4.36	mg/L	



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1A-9-PW
22F0267-11 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/15/2022 10:30
Instrument: NT6 Analyst: JZ Analyzed: 06/22/2022 18:26

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 22F0267-11 C 01
Preparation Batch: BKF0450 Sample Size: 500 mL
Prepared: 06/20/2022 Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.2	1.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.2	1.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.3	1.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.2	1.0	ND	ug/L	U
Fluoranthene	206-44-0	1	0.4	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.4	1.0	ND	ug/L	U
Chrysene	218-01-9	1	0.4	1.0	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.4	1.0	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.4	1.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.4	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.4	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.3	1.0	ND	ug/L	U

Surrogate: 2-Fluorophenol	33-120 %	73.8 %
Surrogate: Phenol-d5	38-120 %	71.5 %
Surrogate: 2-Chlorophenol-d4	41-120 %	75.7 %
Surrogate: 1,2-Dichlorobenzene-d4	20-120 %	68.7 %
Surrogate: Nitrobenzene-d5	27-120 %	78.1 %
Surrogate: 2-Fluorobiphenyl	33-120 %	74.0 %
Surrogate: 2,4,6-Tribromophenol	52-120 %	85.0 %
Surrogate: p-Terphenyl-d14	28-120 %	69.1 %



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Z1A-9-PW
22F0267-11 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/15/2022 10:30
Instrument: FID4 Analyst: CTO Analyzed: 06/24/2022 19:36

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-11 E 01
Preparation Batch: BKF0451 Sample Size: 500 mL
Prepared: 06/22/2022 Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	ND	mg/L	U
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
<i>Surrogate: o-Terphenyl</i>			50-150 %	110	%	



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Z1A-9-PW
22F0267-11 (Water)

Phenols

Method: EPA 8041A Sampled: 06/15/2022 10:30
Instrument: ECD8 Analyst: YZ Analyzed: 06/25/2022 13:58

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-11 A 01
Preparation Batch: BKF0449 Sample Size: 500 mL
Prepared: 06/21/2022 Final Volume: 50 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Pentachlorophenol	87-86-5	1	0.09	0.25	ND	ug/L	U
<i>Surrogate: 2,4,6-Tribromophenol</i>				26-120 %	104	%	
<i>Surrogate: 2,4,6-Tribromophenol [2C]</i>				26-120 %	112	%	



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Z1A-9-PW
22F0267-11 (Water)

Wet Chemistry

Method: EPA 9060A Sampled: 06/15/2022 10:30
Instrument: TOC-LCSH Analyst: RMS Analyzed: 06/29/2022 02:09

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22F0267-11 G
Preparation Batch: BKF0658 Sample Size: 20 mL
Prepared: 06/28/2022 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	2.93	mg/L	



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Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
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Z1A-12-PW
22F0267-12 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 06/15/2022 10:00

Instrument: NT6 Analyst: JZ

Analyzed: 06/22/2022 19:00

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BKF0450
Prepared: 06/20/2022

Sample Size: 500 mL
Final Volume: 0.5 mL

Extract ID: 22F0267-12 C 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.2	1.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.2	1.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.3	1.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.2	1.0	ND	ug/L	U
Fluoranthene	206-44-0	1	0.4	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.4	1.0	ND	ug/L	U
Chrysene	218-01-9	1	0.4	1.0	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.4	1.0	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.4	1.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.4	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.4	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.3	1.0	ND	ug/L	U

Surrogate: 2-Fluorophenol	33-120 %	71.3 %
Surrogate: Phenol-d5	38-120 %	70.4 %
Surrogate: 2-Chlorophenol-d4	41-120 %	72.6 %
Surrogate: 1,2-Dichlorobenzene-d4	20-120 %	69.8 %
Surrogate: Nitrobenzene-d5	27-120 %	79.6 %
Surrogate: 2-Fluorobiphenyl	33-120 %	77.3 %
Surrogate: 2,4,6-Tribromophenol	52-120 %	84.4 %
Surrogate: p-Terphenyl-d14	28-120 %	71.2 %



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Z1A-12-PW
22F0267-12 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/15/2022 10:00
Instrument: FID4 Analyst: CTO Analyzed: 06/24/2022 19:56

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-12 E 01
Preparation Batch: BKF0451 Sample Size: 500 mL
Prepared: 06/22/2022 Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	0.331	mg/L	
HC ID: DRO						
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
<i>Surrogate: o-Terphenyl</i>			50-150 %	98.9	%	



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Z1A-12-PW
22F0267-12 (Water)

Phenols

Method: EPA 8041A Sampled: 06/15/2022 10:00
Instrument: ECD8 Analyst: YZ Analyzed: 06/25/2022 14:16

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-12 A 01
Preparation Batch: BKF0449 Sample Size: 500 mL
Prepared: 06/21/2022 Final Volume: 50 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Pentachlorophenol	87-86-5	1	0.09	0.25	ND	ug/L	U
<i>Surrogate: 2,4,6-Tribromophenol</i>				26-120 %	111	%	
<i>Surrogate: 2,4,6-Tribromophenol [2C]</i>				26-120 %	128	%	*



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Z1A-12-PW
22F0267-12 (Water)

Wet Chemistry

Method: EPA 9060A Sampled: 06/15/2022 10:00
Instrument: TOC-LCSH Analyst: RMS Analyzed: 06/29/2022 02:36

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22F0267-12 G
Preparation Batch: BKF0658 Sample Size: 20 mL
Prepared: 06/28/2022 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	1.63	mg/L	



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Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
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DUP-1-MS
22F0267-13 (Solid)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/14/2022 10:20
Instrument: NT10 Analyst: VTS Analyzed: 06/30/2022 21:59

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 11.86 g (wet)	Extract ID: 22F0267-13 A 02
	Preparation Batch: BKF0469	Final Volume: 1 mL	Dry Weight: 10.01 g
	Prepared: 06/21/2022		% Solids: 84.44
Sample Cleanup:	Cleanup Method: GPC	Initial Volume: 1 uL	Extract ID: 22F0267-13 A 02
	Cleanup Batch: CKF0212	Final Volume: 1 uL	
	Cleaned: 28-Jun-2022		

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	4.2	20.0	10.8	ug/kg	J
2-Methylnaphthalene	91-57-6	1	4.5	20.0	5.6	ug/kg	J
Acenaphthene	83-32-9	1	5.2	20.0	5.3	ug/kg	J
Pentachlorophenol	87-86-5	1	31.2	99.9	ND	ug/kg	U
Phenanthrene	85-01-8	1	8.7	20.0	84.3	ug/kg	
Fluoranthene	206-44-0	1	6.1	20.0	366	ug/kg	
Benzo(a)anthracene	56-55-3	1	6.0	20.0	128	ug/kg	
Chrysene	218-01-9	1	6.1	20.0	150	ug/kg	
Benzo(b)fluoranthene	205-99-2	1	7.0	20.0	126	ug/kg	
Benzo(k)fluoranthene	207-08-9	1	5.0	20.0	113	ug/kg	
Benzo(a)pyrene	50-32-8	1	4.2	20.0	143	ug/kg	
Indeno(1,2,3-cd)pyrene	193-39-5	1	14.6	20.0	55.1	ug/kg	
Dibenzo(a,h)anthracene	53-70-3	1	17.2	20.0	20.9	ug/kg	
1-Methylnaphthalene	90-12-0	1	5.3	20.0	ND	ug/kg	U
<i>Surrogate: 2-Fluorophenol</i>					<i>27-120 %</i>	<i>67.1</i>	<i>%</i>
<i>Surrogate: Phenol-d5</i>					<i>29-120 %</i>	<i>69.1</i>	<i>%</i>
<i>Surrogate: 2-Chlorophenol-d4</i>					<i>31-120 %</i>	<i>89.8</i>	<i>%</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>					<i>32-120 %</i>	<i>90.2</i>	<i>%</i>
<i>Surrogate: Nitrobenzene-d5</i>					<i>30-120 %</i>	<i>87.4</i>	<i>%</i>
<i>Surrogate: 2-Fluorobiphenyl</i>					<i>35-120 %</i>	<i>95.8</i>	<i>%</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>					<i>24-134 %</i>	<i>105</i>	<i>%</i>
<i>Surrogate: p-Terphenyl-d14</i>					<i>37-120 %</i>	<i>118</i>	<i>%</i>



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DUP-1-MS
22F0267-13 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 10:20
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 20:00

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave) Extract ID: 22F0267-13 A 01
Preparation Batch: BKF0467 Sample Size: 10.04 g (wet)
Prepared: 06/21/2022 Final Volume: 1 mL Dry Weight: 8.48 g
% Solids: 84.44

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	1	5.90	31.3	mg/kg	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	11.8	120	mg/kg	
<i>Surrogate: o-Terphenyl</i>			50-150 %	92.8	%	



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DUP-1-MS
22F0267-13 (Solid)

Wet Chemistry

Method: EPA 9060A m Sampled: 06/14/2022 10:20
Instrument: TOC Cube Analyst: DOE Analyzed: 06/21/2022 00:10

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: Plumb 1981	Sample Size: 0.5089 g (wet)	Extract ID: 22F0267-13 A
	Preparation Batch: BKF0437	Final Volume: 0.5089 g	Dry Weight: 0.43 g
	Prepared: 06/20/2022		% Solids: 85.13

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.02	0.02	0.91	%	



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DUP-1-MS
22F0267-13 (Solid)

Wet Chemistry

Method: SM 2540 G-97 Sampled: 06/14/2022 10:20
Instrument: BAL2 Analyst: DOE Analyzed: 06/21/2022 08:01

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: No Prep Wet Chem	Sample Size: 5 g (wet)	Extract ID: 22F0267-13
	Preparation Batch: BKF0465	Final Volume: 5 g	Dry Weight: 4.26 g
	Prepared: 06/21/2022		% Solids: 85.13

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	85.13	%	



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DUP-1-MS
22F0267-14 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 10:20
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 14:21

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave) Preparation Batch: BKF0468 Prepared: 06/21/2022	Sample Size: 10.04 g (wet) Final Volume: 1 mL	Extract ID: 22F0267-14 A 01 Dry Weight: 8.48 g % Solids: 84.44
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CKF0171 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-14 A 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CKF0170 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-14 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	1	5.90	22.9	mg/kg	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	11.8	107	mg/kg	
<i>Surrogate: o-Terphenyl</i>			50-150 %	98.0	%	



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DUP-1-PW
22F0267-15 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/15/2022 12:30
Instrument: NT6 Analyst: JZ Analyzed: 06/22/2022 19:33

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 22F0267-15 C 01
Preparation Batch: BKF0450 Sample Size: 500 mL
Prepared: 06/20/2022 Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.2	1.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.2	1.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.3	1.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.2	1.0	2.1	ug/L	
Fluoranthene	206-44-0	1	0.4	1.0	3.1	ug/L	
Benzo(a)anthracene	56-55-3	1	0.4	1.0	1.4	ug/L	
Chrysene	218-01-9	1	0.4	1.0	1.8	ug/L	
Benzo(b)fluoranthene	205-99-2	1	0.4	1.0	0.9	ug/L	J
Benzo(k)fluoranthene	207-08-9	1	0.4	1.0	1.2	ug/L	
Benzo(a)pyrene	50-32-8	1	0.5	1.0	1.2	ug/L	
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.4	1.0	0.5	ug/L	J
Dibenzo(a,h)anthracene	53-70-3	1	0.4	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.3	1.0	ND	ug/L	U

Surrogate: 2-Fluorophenol	33-120 %	74.0 %
Surrogate: Phenol-d5	38-120 %	76.1 %
Surrogate: 2-Chlorophenol-d4	41-120 %	78.5 %
Surrogate: 1,2-Dichlorobenzene-d4	20-120 %	71.4 %
Surrogate: Nitrobenzene-d5	27-120 %	78.4 %
Surrogate: 2-Fluorobiphenyl	33-120 %	70.2 %
Surrogate: 2,4,6-Tribromophenol	52-120 %	85.5 %
Surrogate: p-Terphenyl-d14	28-120 %	39.8 %



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DUP-1-PW
22F0267-15 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/15/2022 12:30
Instrument: FID4 Analyst: CTO Analyzed: 06/24/2022 20:16

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-15 E 01
Preparation Batch: BKF0451 Sample Size: 500 mL
Prepared: 06/22/2022 Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DRO	DRO	1	0.100	0.212	mg/L	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	0.200	0.367	mg/L	
<i>Surrogate: o-Terphenyl</i>			50-150 %	95.4	%	



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DUP-1-PW
22F0267-15 (Water)

Phenols

Method: EPA 8041A Sampled: 06/15/2022 12:30
Instrument: ECD8 Analyst: YZ Analyzed: 06/25/2022 14:34

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-15 A 01
Preparation Batch: BKF0449 Sample Size: 500 mL
Prepared: 06/21/2022 Final Volume: 50 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Pentachlorophenol	87-86-5	1	0.09	0.25	ND	ug/L	U
<i>Surrogate: 2,4,6-Tribromophenol</i>				26-120 %	86.5	%	
<i>Surrogate: 2,4,6-Tribromophenol [2C]</i>				26-120 %	126	%	*



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DUP-1-PW
22F0267-15 (Water)

Wet Chemistry

Method: EPA 9060A Sampled: 06/15/2022 12:30
Instrument: TOC-LCSH Analyst: RMS Analyzed: 06/29/2022 02:54

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22F0267-15 G
Preparation Batch: BKF0658 Sample Size: 20 mL
Prepared: 06/28/2022 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	4.22	mg/L	



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Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
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Z1B-1-MS
22F0267-16 (Solid)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/14/2022 10:15
Instrument: NT10 Analyst: VTS Analyzed: 06/30/2022 22:38

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Sample Size: 11.87 g (wet)	Extract ID: 22F0267-16 A 02
	Preparation Batch: BKF0469	Final Volume: 1 mL	Dry Weight: 10.01 g
	Prepared: 06/21/2022		% Solids: 84.30
Sample Cleanup:	Cleanup Method: GPC	Initial Volume: 1 uL	Extract ID: 22F0267-16 A 02
	Cleanup Batch: CKF0212	Final Volume: 1 uL	
	Cleaned: 28-Jun-2022		

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	4.2	20.0	11.5	ug/kg	J
2-Methylnaphthalene	91-57-6	1	4.5	20.0	7.9	ug/kg	J
Acenaphthene	83-32-9	1	5.2	20.0	6.2	ug/kg	J
Pentachlorophenol	87-86-5	1	31.2	99.9	ND	ug/kg	U
Phenanthrene	85-01-8	1	8.7	20.0	124	ug/kg	
Fluoranthene	206-44-0	1	6.1	20.0	427	ug/kg	
Benzo(a)anthracene	56-55-3	1	6.0	20.0	147	ug/kg	
Chrysene	218-01-9	1	6.1	20.0	177	ug/kg	
Benzo(b)fluoranthene	205-99-2	1	7.0	20.0	135	ug/kg	
Benzo(k)fluoranthene	207-08-9	1	5.0	20.0	120	ug/kg	
Benzo(a)pyrene	50-32-8	1	4.2	20.0	176	ug/kg	
Indeno(1,2,3-cd)pyrene	193-39-5	1	14.6	20.0	57.5	ug/kg	
Dibenzo(a,h)anthracene	53-70-3	1	17.2	20.0	19.2	ug/kg	J
1-Methylnaphthalene	90-12-0	1	5.3	20.0	7.0	ug/kg	J
<i>Surrogate: 2-Fluorophenol</i>					27-120 %	64.2	%
<i>Surrogate: Phenol-d5</i>					29-120 %	62.7	%
<i>Surrogate: 2-Chlorophenol-d4</i>					31-120 %	84.5	%
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>					32-120 %	82.6	%
<i>Surrogate: Nitrobenzene-d5</i>					30-120 %	83.2	%
<i>Surrogate: 2-Fluorobiphenyl</i>					35-120 %	91.9	%
<i>Surrogate: 2,4,6-Tribromophenol</i>					24-134 %	94.2	%
<i>Surrogate: p-Terphenyl-d14</i>					37-120 %	105	%



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Z1B-1-MS
22F0267-16 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 10:15
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 20:24

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave) Extract ID: 22F0267-16 A 01
Preparation Batch: BKF0467 Dry Weight: 8.46 g
Prepared: 06/21/2022 Final Volume: 1 mL % Solids: 84.30

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	1	5.91	31.8	mg/kg	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	11.8	124	mg/kg	
<i>Surrogate: o-Terphenyl</i>			50-150 %	89.5	%	



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Z1B-1-MS
22F0267-16 (Solid)

Wet Chemistry

Method: EPA 9060A m Sampled: 06/14/2022 10:15
Instrument: TOC Cube Analyst: DOE Analyzed: 06/21/2022 00:40

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: Plumb 1981	Sample Size: 0.5128 g (wet)	Extract ID: 22F0267-16 A
	Preparation Batch: BKF0437	Final Volume: 0.5128 g	Dry Weight: 0.42 g
	Prepared: 06/20/2022		% Solids: 82.32

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.02	0.02	1.08	%	



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Z1B-1-MS
22F0267-16 (Solid)

Wet Chemistry

Method: SM 2540 G-97 Sampled: 06/14/2022 10:15
Instrument: BAL2 Analyst: DOE Analyzed: 06/21/2022 08:01

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: No Prep Wet Chem	Sample Size: 5 g (wet)	Extract ID: 22F0267-16
	Preparation Batch: BKF0465	Final Volume: 5 g	Dry Weight: 4.12 g
	Prepared: 06/21/2022		% Solids: 82.32

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	82.32	%	



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Z1B-1-MS
22F0267-17 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 10:15
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 14:42

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave) Preparation Batch: BKF0468 Prepared: 06/21/2022	Sample Size: 10.03 g (wet) Final Volume: 1 mL	Extract ID: 22F0267-17 A 01 Dry Weight: 8.31 g % Solids: 82.88
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CKF0171 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-17 A 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CKF0170 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-17 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	1	6.01	27.4	mg/kg	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	12.0	173	mg/kg	
<i>Surrogate: o-Terphenyl</i>			50-150 %	87.5	%	



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Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
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Z1B-2-MS
22F0267-18 (Solid)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/14/2022 10:30
Instrument: NT10 Analyst: VTS Analyzed: 06/30/2022 23:17

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Extract ID: 22F0267-18 A 02
	Preparation Batch: BKF0469	Dry Weight: 10.02 g
	Sample Size: 11.39 g (wet)	% Solids: 87.98
	Prepared: 06/21/2022	Final Volume: 1 mL
Sample Cleanup:	Cleanup Method: GPC	Extract ID: 22F0267-18 A 02
	Cleanup Batch: CKF0212	Initial Volume: 1 uL
	Cleaned: 28-Jun-2022	Final Volume: 1 uL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	4.2	20.0	ND	ug/kg	U
2-Methylnaphthalene	91-57-6	1	4.5	20.0	ND	ug/kg	U
Acenaphthene	83-32-9	1	5.2	20.0	ND	ug/kg	U
Pentachlorophenol	87-86-5	1	31.2	99.8	32.4	ug/kg	J
Phenanthrene	85-01-8	1	8.7	20.0	14.6	ug/kg	J
Fluoranthene	206-44-0	1	6.1	20.0	33.8	ug/kg	
Benzo(a)anthracene	56-55-3	1	5.9	20.0	14.0	ug/kg	J
Chrysene	218-01-9	1	6.0	20.0	17.6	ug/kg	J
Benzo(b)fluoranthene	205-99-2	1	7.0	20.0	12.3	ug/kg	J
Benzo(k)fluoranthene	207-08-9	1	5.0	20.0	9.9	ug/kg	J
Benzo(a)pyrene	50-32-8	1	4.2	20.0	15.7	ug/kg	J
Indeno(1,2,3-cd)pyrene	193-39-5	1	14.6	20.0	ND	ug/kg	U
Dibenzo(a,h)anthracene	53-70-3	1	17.2	20.0	ND	ug/kg	U
1-Methylnaphthalene	90-12-0	1	5.2	20.0	ND	ug/kg	U
<i>Surrogate: 2-Fluorophenol</i>					27-120 %	65.6	%
<i>Surrogate: Phenol-d5</i>					29-120 %	65.6	%
<i>Surrogate: 2-Chlorophenol-d4</i>					31-120 %	88.5	%
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>					32-120 %	87.5	%
<i>Surrogate: Nitrobenzene-d5</i>					30-120 %	89.1	%
<i>Surrogate: 2-Fluorobiphenyl</i>					35-120 %	96.6	%
<i>Surrogate: 2,4,6-Tribromophenol</i>					24-134 %	102	%
<i>Surrogate: p-Terphenyl-d14</i>					37-120 %	116	%



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Z1B-2-MS
22F0267-18 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 10:30
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 20:45

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave) Extract ID: 22F0267-18 A 01
Preparation Batch: BKF0467 Dry Weight: 8.81 g
Prepared: 06/21/2022 Final Volume: 1 mL % Solids: 87.98

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	1	5.68	12.8	mg/kg	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	11.4	52.2	mg/kg	
<i>Surrogate: o-Terphenyl</i>			50-150 %	91.6	%	



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Z1B-2-MS
22F0267-18 (Solid)

Wet Chemistry

Method: EPA 9060A m Sampled: 06/14/2022 10:30
Instrument: TOC Cube Analyst: DOE Analyzed: 06/21/2022 01:10

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: Plumb 1981	Sample Size: 0.5123 g (wet)	Extract ID: 22F0267-18 A
	Preparation Batch: BKF0437	Final Volume: 0.5123 g	Dry Weight: 0.44 g
	Prepared: 06/20/2022		% Solids: 85.83

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.02	0.02	0.47	%	



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Z1B-2-MS
22F0267-18 (Solid)

Wet Chemistry

Method: SM 2540 G-97 Sampled: 06/14/2022 10:30
Instrument: BAL2 Analyst: DOE Analyzed: 06/21/2022 08:01

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: No Prep Wet Chem	Sample Size: 5 g (wet)	Extract ID: 22F0267-18
	Preparation Batch: BKF0465	Final Volume: 5 g	Dry Weight: 4.29 g
	Prepared: 06/21/2022		% Solids: 85.83

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	85.83	%	



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Z1B-2-MS
22F0267-19 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 10:30
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 15:03

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave) Preparation Batch: BKF0468 Prepared: 06/21/2022	Sample Size: 10.02 g (wet) Final Volume: 1 mL	Extract ID: 22F0267-19 A 01 Dry Weight: 9.44 g % Solids: 94.18
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CKF0171 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-19 A 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CKF0170 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-19 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	1	5.30	7.97	mg/kg	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	10.6	45.3	mg/kg	
<i>Surrogate: o-Terphenyl</i>			50-150 %	85.0	%	



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Z1B-3-MS
22F0267-20 (Solid)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/14/2022 15:05
Instrument: NT10 Analyst: VTS Analyzed: 06/30/2022 23:56

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Extract ID: 22F0267-20 A 02
	Preparation Batch: BKF0469	Dry Weight: 10.01 g
	Sample Size: 11.59 g (wet)	% Solids: 86.39
	Prepared: 06/21/2022	Final Volume: 1 mL
Sample Cleanup:	Cleanup Method: GPC	Extract ID: 22F0267-20 A 02
	Cleanup Batch: CKF0212	Initial Volume: 1 uL
	Cleaned: 28-Jun-2022	Final Volume: 1 uL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	4.2	20.0	8.6	ug/kg	J
2-Methylnaphthalene	91-57-6	1	4.5	20.0	9.3	ug/kg	J
Acenaphthene	83-32-9	1	5.2	20.0	ND	ug/kg	U
Pentachlorophenol	87-86-5	1	31.2	99.9	ND	ug/kg	U
Phenanthrene	85-01-8	1	8.7	20.0	15.8	ug/kg	J
Fluoranthene	206-44-0	1	6.1	20.0	37.5	ug/kg	
Benzo(a)anthracene	56-55-3	1	6.0	20.0	9.7	ug/kg	J
Chrysene	218-01-9	1	6.1	20.0	14.3	ug/kg	J
Benzo(b)fluoranthene	205-99-2	1	7.0	20.0	9.3	ug/kg	J
Benzo(k)fluoranthene	207-08-9	1	5.0	20.0	8.6	ug/kg	J
Benzo(a)pyrene	50-32-8	1	4.2	20.0	11.4	ug/kg	J
Indeno(1,2,3-cd)pyrene	193-39-5	1	14.6	20.0	ND	ug/kg	U
Dibenzo(a,h)anthracene	53-70-3	1	17.2	20.0	ND	ug/kg	U
1-Methylnaphthalene	90-12-0	1	5.3	20.0	7.7	ug/kg	J
<i>Surrogate: 2-Fluorophenol</i>					27-120 %	64.9	%
<i>Surrogate: Phenol-d5</i>					29-120 %	62.4	%
<i>Surrogate: 2-Chlorophenol-d4</i>					31-120 %	84.4	%
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>					32-120 %	85.5	%
<i>Surrogate: Nitrobenzene-d5</i>					30-120 %	85.8	%
<i>Surrogate: 2-Fluorobiphenyl</i>					35-120 %	90.6	%
<i>Surrogate: 2,4,6-Tribromophenol</i>					24-134 %	88.4	%
<i>Surrogate: p-Terphenyl-d14</i>					37-120 %	113	%



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Z1B-3-MS
22F0267-20 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 15:05
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 21:07

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave) Extract ID: 22F0267-20 A 01
Preparation Batch: BKF0467 Sample Size: 10 g (wet)
Prepared: 06/21/2022 Final Volume: 1 mL Dry Weight: 8.64 g
% Solids: 86.39

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	5.79	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)	RRO	1	11.6	12.6	mg/kg	
HC ID: MOTOR OIL						
Surrogate: <i>o</i> -Terphenyl			50-150 %	91.1	%	



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Z1B-3-MS
22F0267-20 (Solid)

Wet Chemistry

Method: EPA 9060A m Sampled: 06/14/2022 15:05
Instrument: TOC Cube Analyst: DOE Analyzed: 06/21/2022 01:40

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: Plumb 1981	Sample Size: 0.5066 g (wet)	Extract ID: 22F0267-20 A
	Preparation Batch: BKF0437	Final Volume: 0.5066 g	Dry Weight: 0.44 g
	Prepared: 06/20/2022		% Solids: 86.19

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.02	0.02	0.14	%	



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Z1B-3-MS
22F0267-20 (Solid)

Wet Chemistry

Method: SM 2540 G-97 Sampled: 06/14/2022 15:05
Instrument: BAL2 Analyst: DOE Analyzed: 06/21/2022 08:01

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: No Prep Wet Chem	Sample Size: 5 g (wet)	Extract ID: 22F0267-20
	Preparation Batch: BKF0465	Final Volume: 5 g	Dry Weight: 4.31 g
	Prepared: 06/21/2022		% Solids: 86.19

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	86.19	%	



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Z1B-3-MS
22F0267-21 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 15:05
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 15:24

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave) Preparation Batch: BKF0468 Prepared: 06/21/2022	Sample Size: 10.06 g (wet) Final Volume: 1 mL	Extract ID: 22F0267-21 A 01 Dry Weight: 8.76 g % Solids: 87.07
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CKF0171 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-21 A 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CKF0170 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-21 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	1	5.71	5.81	mg/kg	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	11.4	14.9	mg/kg	
<i>Surrogate: o-Terphenyl</i>			50-150 %	79.8	%	



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Z1B-4-MS
22F0267-22 (Solid)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/15/2022 09:45
Instrument: NT10 Analyst: VTS Analyzed: 07/01/2022 00:35

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)	Extract ID: 22F0267-22 A 02
	Preparation Batch: BKF0469	Dry Weight: 10.05 g
	Sample Size: 12.46 g (wet)	% Solids: 80.66
	Prepared: 06/21/2022	Final Volume: 1 mL
Sample Cleanup:	Cleanup Method: GPC	Extract ID: 22F0267-22 A 02
	Cleanup Batch: CKF0212	Initial Volume: 1 uL
	Cleaned: 28-Jun-2022	Final Volume: 1 uL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	4.2	19.9	16.2	ug/kg	J
2-Methylnaphthalene	91-57-6	1	4.5	19.9	21.4	ug/kg	
Acenaphthene	83-32-9	1	5.2	19.9	ND	ug/kg	U
Pentachlorophenol	87-86-5	1	31.1	99.5	ND	ug/kg	U
Phenanthrene	85-01-8	1	8.7	19.9	12.5	ug/kg	J
Fluoranthene	206-44-0	1	6.1	19.9	27.3	ug/kg	
Benzo(a)anthracene	56-55-3	1	5.9	19.9	8.0	ug/kg	J
Chrysene	218-01-9	1	6.0	19.9	11.3	ug/kg	J
Benzo(b)fluoranthene	205-99-2	1	7.0	19.9	ND	ug/kg	U
Benzo(k)fluoranthene	207-08-9	1	5.0	19.9	9.8	ug/kg	J
Benzo(a)pyrene	50-32-8	1	4.2	19.9	6.3	ug/kg	J
Indeno(1,2,3-cd)pyrene	193-39-5	1	14.6	19.9	ND	ug/kg	U
Dibenzo(a,h)anthracene	53-70-3	1	17.1	19.9	ND	ug/kg	U
1-Methylnaphthalene	90-12-0	1	5.2	19.9	20.3	ug/kg	
<i>Surrogate: 2-Fluorophenol</i>					27-120 %	60.6	%
<i>Surrogate: Phenol-d5</i>					29-120 %	59.6	%
<i>Surrogate: 2-Chlorophenol-d4</i>					31-120 %	80.2	%
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>					32-120 %	79.1	%
<i>Surrogate: Nitrobenzene-d5</i>					30-120 %	79.1	%
<i>Surrogate: 2-Fluorobiphenyl</i>					35-120 %	85.7	%
<i>Surrogate: 2,4,6-Tribromophenol</i>					24-134 %	84.5	%
<i>Surrogate: p-Terphenyl-d14</i>					37-120 %	115	%



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Z1B-4-MS
22F0267-22 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/15/2022 09:45
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 21:28

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3546 (Microwave) Extract ID: 22F0267-22 A 01
Preparation Batch: BKF0467 Sample Size: 10.04 g (wet)
Prepared: 06/21/2022 Final Volume: 1 mL Dry Weight: 8.10 g
% Solids: 80.66

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	5	30.9	32.5	mg/kg	D
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	5	61.7	103	mg/kg	D
<i>Surrogate: o-Terphenyl</i>			50-150 %	84.0	%	



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Z1B-4-MS
22F0267-22 (Solid)

Wet Chemistry

Method: EPA 9060A m Sampled: 06/15/2022 09:45
Instrument: TOC Cube Analyst: DOE Analyzed: 06/21/2022 02:10

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: Plumb 1981	Sample Size: 0.5469 g (wet)	Extract ID: 22F0267-22 A
	Preparation Batch: BKF0437	Final Volume: 0.5469 g	Dry Weight: 0.44 g
	Prepared: 06/20/2022		% Solids: 80.36

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.02	0.02	0.95	%	



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Z1B-4-MS
22F0267-22 (Solid)

Wet Chemistry

Method: SM 2540 G-97 Sampled: 06/15/2022 09:45
Instrument: BAL2 Analyst: DOE Analyzed: 06/21/2022 08:01

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: No Prep Wet Chem	Sample Size: 5 g (wet)	Extract ID: 22F0267-22
	Preparation Batch: BKF0465	Final Volume: 5 g	Dry Weight: 4.02 g
	Prepared: 06/21/2022		% Solids: 80.36

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	80.36	%	



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Z1B-4-MS
22F0267-23 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/15/2022 09:45
Instrument: FID3 Analyst: CTO Analyzed: 06/24/2022 15:45

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3546 (Microwave) Preparation Batch: BKF0468 Prepared: 06/21/2022	Sample Size: 10.01 g (wet) Final Volume: 1 mL	Extract ID: 22F0267-23 A 01 Dry Weight: 8.11 g % Solids: 81.04
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CKF0171 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-23 A 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CKF0170 Cleaned: 22-Jun-2022	Initial Volume: 1 uL Final Volume: 1 uL	Extract ID: 22F0267-23 A 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DIESEL	DRO	1	6.16	10.3	mg/kg	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	12.3	65.1	mg/kg	
<i>Surrogate: o-Terphenyl</i>			50-150 %	90.2	%	



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Z1B-1-PW
22F0267-24 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 06/14/2022 11:10

Instrument: NT6 Analyst: JZ

Analyzed: 06/22/2022 20:07

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BKF0450
Prepared: 06/20/2022

Sample Size: 500 mL
Final Volume: 0.5 mL

Extract ID: 22F0267-24 C 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.2	1.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.2	1.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.3	1.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.2	1.0	ND	ug/L	U
Fluoranthene	206-44-0	1	0.4	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.4	1.0	ND	ug/L	U
Chrysene	218-01-9	1	0.4	1.0	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.4	1.0	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.4	1.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.4	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.4	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.3	1.0	ND	ug/L	U

<i>Surrogate: 2-Fluorophenol</i>	<i>33-120 %</i>	<i>65.6</i>	<i>%</i>
<i>Surrogate: Phenol-d5</i>	<i>38-120 %</i>	<i>66.0</i>	<i>%</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>41-120 %</i>	<i>68.0</i>	<i>%</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>20-120 %</i>	<i>64.7</i>	<i>%</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>27-120 %</i>	<i>73.0</i>	<i>%</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>33-120 %</i>	<i>70.8</i>	<i>%</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>52-120 %</i>	<i>82.1</i>	<i>%</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>28-120 %</i>	<i>72.3</i>	<i>%</i>



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Z1B-1-PW
22F0267-24 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 11:10
Instrument: FID4 Analyst: CTO Analyzed: 06/24/2022 20:36

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-24 E 01
Preparation Batch: BKF0451 Sample Size: 500 mL
Prepared: 06/22/2022 Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	ND	mg/L	U
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
<i>Surrogate: o-Terphenyl</i>			50-150 %	97.1	%	



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Z1B-1-PW
22F0267-24 (Water)

Phenols

Method: EPA 8041A Sampled: 06/14/2022 11:10
Instrument: ECD8 Analyst: YZ Analyzed: 06/25/2022 14:52

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-24 A 01
Preparation Batch: BKF0449 Sample Size: 500 mL
Prepared: 06/21/2022 Final Volume: 50 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Pentachlorophenol	87-86-5	1	0.09	0.25	ND	ug/L	U
<i>Surrogate: 2,4,6-Tribromophenol</i>				26-120 %	97.5	%	
<i>Surrogate: 2,4,6-Tribromophenol [2C]</i>				26-120 %	118	%	



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Z1B-1-PW
22F0267-24 (Water)

Wet Chemistry

Method: EPA 9060A Sampled: 06/14/2022 11:10
Instrument: TOC-LCSH Analyst: RMS Analyzed: 06/29/2022 03:59

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22F0267-24 G
Preparation Batch: BKF0658 Sample Size: 20 mL
Prepared: 06/28/2022 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	3.99	mg/L	



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Z1B-2-PW
22F0267-25 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/14/2022 11:50
Instrument: NT6 Analyst: JZ Analyzed: 06/22/2022 20:40

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 22F0267-25 C 01
Preparation Batch: BKF0450 Sample Size: 500 mL
Prepared: 06/20/2022 Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.2	1.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.2	1.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.3	1.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.2	1.0	ND	ug/L	U
Fluoranthene	206-44-0	1	0.4	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.4	1.0	ND	ug/L	U
Chrysene	218-01-9	1	0.4	1.0	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.4	1.0	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.4	1.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.4	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.4	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.3	1.0	ND	ug/L	U

Surrogate: 2-Fluorophenol	33-120 %	70.9 %
Surrogate: Phenol-d5	38-120 %	70.6 %
Surrogate: 2-Chlorophenol-d4	41-120 %	75.2 %
Surrogate: 1,2-Dichlorobenzene-d4	20-120 %	70.4 %
Surrogate: Nitrobenzene-d5	27-120 %	79.8 %
Surrogate: 2-Fluorobiphenyl	33-120 %	74.3 %
Surrogate: 2,4,6-Tribromophenol	52-120 %	84.4 %
Surrogate: p-Terphenyl-d14	28-120 %	56.9 %



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1B-2-PW
22F0267-25 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/14/2022 11:50
Instrument: FID4 Analyst: CTO Analyzed: 06/24/2022 20:56

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-25 E 01
Preparation Batch: BKF0451 Sample Size: 500 mL
Prepared: 06/22/2022 Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24) HC ID: DRO	DRO	1	0.100	0.256	mg/L	
Motor Oil Range Organics (C24-C38) HC ID: MOTOR OIL	RRO	1	0.200	0.328	mg/L	
<i>Surrogate: o-Terphenyl</i>			50-150 %	99.6	%	



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1B-2-PW
22F0267-25 (Water)

Phenols

Method: EPA 8041A Sampled: 06/14/2022 11:50
Instrument: ECD8 Analyst: YZ Analyzed: 06/25/2022 15:10

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-25 A 01
Preparation Batch: BKF0449 Sample Size: 500 mL
Prepared: 06/21/2022 Final Volume: 50 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Pentachlorophenol	87-86-5	1	0.09	0.25	ND	ug/L	U
<i>Surrogate: 2,4,6-Tribromophenol</i>				26-120 %	86.9	%	
<i>Surrogate: 2,4,6-Tribromophenol [2C]</i>				26-120 %	112	%	



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1B-2-PW
22F0267-25 (Water)

Wet Chemistry

Method: EPA 9060A Sampled: 06/14/2022 11:50
Instrument: TOC-LCSH Analyst: RMS Analyzed: 06/29/2022 04:18

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22F0267-25 G
Preparation Batch: BKF0658 Sample Size: 20 mL
Prepared: 06/28/2022 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	7.44	mg/L	



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1B-3-PW
22F0267-26 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/15/2022 09:40
Instrument: NT6 Analyst: JZ Analyzed: 06/22/2022 21:14

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 22F0267-26 C 01
Preparation Batch: BKF0450 Sample Size: 500 mL
Prepared: 06/20/2022 Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.2	1.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.2	1.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.3	1.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.2	1.0	ND	ug/L	U
Fluoranthene	206-44-0	1	0.4	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.4	1.0	ND	ug/L	U
Chrysene	218-01-9	1	0.4	1.0	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.4	1.0	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.4	1.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.4	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.4	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.3	1.0	ND	ug/L	U

Surrogate: 2-Fluorophenol	33-120 %	72.9 %
Surrogate: Phenol-d5	38-120 %	72.7 %
Surrogate: 2-Chlorophenol-d4	41-120 %	75.2 %
Surrogate: 1,2-Dichlorobenzene-d4	20-120 %	67.4 %
Surrogate: Nitrobenzene-d5	27-120 %	77.9 %
Surrogate: 2-Fluorobiphenyl	33-120 %	72.4 %
Surrogate: 2,4,6-Tribromophenol	52-120 %	83.1 %
Surrogate: p-Terphenyl-d14	28-120 %	68.6 %



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1B-3-PW
22F0267-26 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/15/2022 09:40
Instrument: FID4 Analyst: CTO Analyzed: 06/24/2022 21:16

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-26 E 01
Preparation Batch: BKF0451 Sample Size: 500 mL
Prepared: 06/22/2022 Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	ND	mg/L	U
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
<i>Surrogate: o-Terphenyl</i>			50-150 %	97.7	%	



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1B-3-PW
22F0267-26 (Water)

Phenols

Method: EPA 8041A Sampled: 06/15/2022 09:40
Instrument: ECD8 Analyst: YZ Analyzed: 06/25/2022 15:28

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-26 A 01
Preparation Batch: BKF0449 Sample Size: 500 mL
Prepared: 06/21/2022 Final Volume: 50 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Pentachlorophenol	87-86-5	1	0.09	0.25	ND	ug/L	U
<i>Surrogate: 2,4,6-Tribromophenol</i>				26-120 %	77.7	%	
<i>Surrogate: 2,4,6-Tribromophenol [2C]</i>				26-120 %	91.8	%	



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1B-3-PW
22F0267-26 (Water)

Wet Chemistry

Method: EPA 9060A Sampled: 06/15/2022 09:40
Instrument: TOC-LCSH Analyst: RMS Analyzed: 06/29/2022 04:37

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22F0267-26 G
Preparation Batch: BKF0658 Sample Size: 20 mL
Prepared: 06/28/2022 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	3.67	mg/L	



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1B-4-PW
22F0267-27 (Water)

Semivolatile Organic Compounds

Method: EPA 8270E Sampled: 06/15/2022 09:50
Instrument: NT6 Analyst: JZ Analyzed: 06/24/2022 15:29

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 22F0267-27 C 01
Preparation Batch: BKF0450 Sample Size: 500 mL
Prepared: 06/20/2022 Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.2	1.0	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.2	1.0	ND	ug/L	U
Acenaphthene	83-32-9	1	0.3	1.0	ND	ug/L	U
Phenanthrene	85-01-8	1	0.2	1.0	ND	ug/L	U
Fluoranthene	206-44-0	1	0.4	1.0	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.4	1.0	ND	ug/L	U
Chrysene	218-01-9	1	0.4	1.0	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.4	1.0	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.4	1.0	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.5	1.0	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.4	1.0	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.4	1.0	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.3	1.0	ND	ug/L	U

Surrogate: 2-Fluorophenol	33-120 %	49.7 %	
Surrogate: Phenol-d5	38-120 %	23.4 %	*
Surrogate: 2-Chlorophenol-d4	41-120 %	60.5 %	
Surrogate: 1,2-Dichlorobenzene-d4	20-120 %	60.1 %	
Surrogate: Nitrobenzene-d5	27-120 %	69.0 %	
Surrogate: 2-Fluorobiphenyl	33-120 %	67.2 %	
Surrogate: 2,4,6-Tribromophenol	52-120 %	64.6 %	
Surrogate: p-Terphenyl-d14	28-120 %	71.3 %	



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1B-4-PW
22F0267-27 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx Sampled: 06/15/2022 09:50
Instrument: FID4 Analyst: CTO Analyzed: 06/24/2022 21:36

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-27 E 01
Preparation Batch: BKF0451 Sample Size: 500 mL
Prepared: 06/22/2022 Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	ND	mg/L	U
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
<i>Surrogate: o-Terphenyl</i>			50-150 %	100	%	



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1B-4-PW
22F0267-27 (Water)

Phenols

Method: EPA 8041A Sampled: 06/15/2022 09:50
Instrument: ECD8 Analyst: YZ Analyzed: 06/25/2022 15:46

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3510C SepF Extract ID: 22F0267-27 A 01
Preparation Batch: BKF0449 Sample Size: 500 mL
Prepared: 06/21/2022 Final Volume: 50 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Pentachlorophenol	87-86-5	1	0.09	0.25	ND	ug/L	U
<i>Surrogate: 2,4,6-Tribromophenol</i>				26-120 %	85.6	%	
<i>Surrogate: 2,4,6-Tribromophenol [2C]</i>				26-120 %	104	%	



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Z1B-4-PW
22F0267-27 (Water)

Wet Chemistry

Method: EPA 9060A Sampled: 06/15/2022 09:50
Instrument: TOC-LCSH Analyst: RMS Analyzed: 06/29/2022 05:04

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22F0267-27 G
Preparation Batch: BKF0658 Sample Size: 20 mL
Prepared: 06/28/2022 Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	2.08	mg/L	



GeoEngineers
17425 Union Hill Road Suite 250
Redmond WA, 98052

Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
11-Jul-2022 15:40

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BKF0450 - EPA 3520C (Liq Liq)

Instrument: NT6 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKF0450-BLK1)											
						Prepared: 20-Jun-2022 Analyzed: 22-Jun-2022 15:38					
Naphthalene	ND	0.2	1.0	ug/L							U
2-Methylnaphthalene	ND	0.2	1.0	ug/L							U
Acenaphthene	ND	0.3	1.0	ug/L							U
Phenanthrene	ND	0.2	1.0	ug/L							U
Fluoranthene	ND	0.4	1.0	ug/L							U
Benzo(a)anthracene	ND	0.4	1.0	ug/L							U
Chrysene	ND	0.4	1.0	ug/L							U
Benzo(b)fluoranthene	ND	0.4	1.0	ug/L							U
Benzo(k)fluoranthene	ND	0.4	1.0	ug/L							U
Benzo(a)pyrene	ND	0.5	1.0	ug/L							U
Indeno(1,2,3-cd)pyrene	ND	0.4	1.0	ug/L							U
Dibenzo(a,h)anthracene	ND	0.4	1.0	ug/L							U
1-Methylnaphthalene	ND	0.3	1.0	ug/L							U
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<i>Surrogate: 2-Fluorophenol</i>	30.6			ug/L	37.5	81.6		33-120			
<i>Surrogate: Phenol-d5</i>	30.5			ug/L	37.5	81.3		38-120			
<i>Surrogate: 2-Chlorophenol-d4</i>	31.8			ug/L	37.5	84.7		41-120			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	19.6			ug/L	25.0	78.6		20-120			
<i>Surrogate: Nitrobenzene-d5</i>	22.5			ug/L	25.0	90.0		27-120			
<i>Surrogate: 2-Fluorobiphenyl</i>	20.6			ug/L	25.0	82.6		33-120			
<i>Surrogate: 2,4,6-Tribromophenol</i>	33.4			ug/L	37.5	89.1		52-120			
<i>Surrogate: p-Terphenyl-d14</i>	21.4			ug/L	25.0	85.6		28-120			
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LCS (BKF0450-BS1)						Prepared: 20-Jun-2022 Analyzed: 22-Jun-2022 16:12					
Naphthalene	17.4	0.2	1.0	ug/L	25.0	69.4		40.5-120			
2-Methylnaphthalene	17.6	0.2	1.0	ug/L	25.0	70.6		47.3-120			
Acenaphthene	18.3	0.3	1.0	ug/L	25.0	73.2		50.4-120			
Phenanthrene	19.6	0.2	1.0	ug/L	25.0	78.5		58.8-120			
Fluoranthene	22.8	0.4	1.0	ug/L	25.0	91.2		66.7-120			
Benzo(a)anthracene	20.0	0.4	1.0	ug/L	25.0	79.9		58.3-128			
Chrysene	18.9	0.4	1.0	ug/L	25.0	75.6		58.9-120			
Benzo(b)fluoranthene	22.8	0.4	1.0	ug/L	25.0	91.3		64.9-120			
Benzo(k)fluoranthene	19.4	0.4	1.0	ug/L	25.0	77.5		63.9-120			
Benzo(a)pyrene	20.3	0.5	1.0	ug/L	25.0	81.1		70.6-120			
Indeno(1,2,3-cd)pyrene	16.0	0.4	1.0	ug/L	25.0	63.9		46.5-120			
Dibenzo(a,h)anthracene	16.0	0.4	1.0	ug/L	25.0	64.2		49.6-120			



GeoEngineers
17425 Union Hill Road Suite 250
Redmond WA, 98052

Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
11-Jul-2022 15:40

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BKF0450 - EPA 3520C (Liq Liq)

Instrument: NT6 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BKF0450-BS1)						Prepared: 20-Jun-2022 Analyzed: 22-Jun-2022 16:12					
1-Methylnaphthalene	18.8	0.3	1.0	ug/L	25.0		75.3	46.9-120			
Surrogate: 2-Fluorophenol	29.8			ug/L	37.5		79.6	33-120			
Surrogate: Phenol-d5	31.2			ug/L	37.5		83.3	38-120			
Surrogate: 2-Chlorophenol-d4	30.8			ug/L	37.5		82.3	41-120			
Surrogate: 1,2-Dichlorobenzene-d4	18.6			ug/L	25.0		74.6	20-120			
Surrogate: Nitrobenzene-d5	22.4			ug/L	25.0		89.6	27-120			
Surrogate: 2-Fluorobiphenyl	20.3			ug/L	25.0		81.0	33-120			
Surrogate: 2,4,6-Tribromophenol	36.7			ug/L	37.5		97.7	52-120			
Surrogate: p-Terphenyl-d14	20.2			ug/L	25.0		80.8	28-120			

LCS Dup (BKF0450-BSD1)						Prepared: 20-Jun-2022 Analyzed: 22-Jun-2022 16:45					
Naphthalene	19.1	0.2	1.0	ug/L	25.0		76.5	40.5-120	9.66	30	
2-Methylnaphthalene	19.3	0.2	1.0	ug/L	25.0		77.3	47.3-120	9.11	30	
Acenaphthene	20.0	0.3	1.0	ug/L	25.0		80.0	50.4-120	8.95	30	
Phenanthrene	21.6	0.2	1.0	ug/L	25.0		86.2	58.8-120	9.43	30	
Fluoranthene	24.8	0.4	1.0	ug/L	25.0		99.2	66.7-120	8.45	30	
Benzo(a)anthracene	21.5	0.4	1.0	ug/L	25.0		86.2	58.3-128	7.51	30	
Chrysene	20.6	0.4	1.0	ug/L	25.0		82.4	58.9-120	8.59	30	
Benzo(b)fluoranthene	21.9	0.4	1.0	ug/L	25.0		87.4	64.9-120	4.37	30	
Benzo(k)fluoranthene	23.3	0.4	1.0	ug/L	25.0		93.3	63.9-120	18.50	30	
Benzo(a)pyrene	22.0	0.5	1.0	ug/L	25.0		87.9	70.6-120	8.03	30	
Indeno(1,2,3-cd)pyrene	17.1	0.4	1.0	ug/L	25.0		68.4	46.5-120	6.76	30	
Dibenzo(a,h)anthracene	17.4	0.4	1.0	ug/L	25.0		69.6	49.6-120	8.04	30	
1-Methylnaphthalene	21.1	0.3	1.0	ug/L	25.0		84.5	46.9-120	11.50	30	
Surrogate: 2-Fluorophenol	31.8			ug/L	37.5		84.9	33-120			
Surrogate: Phenol-d5	33.4			ug/L	37.5		89.0	38-120			
Surrogate: 2-Chlorophenol-d4	33.2			ug/L	37.5		88.7	41-120			
Surrogate: 1,2-Dichlorobenzene-d4	19.5			ug/L	25.0		78.1	20-120			
Surrogate: Nitrobenzene-d5	23.4			ug/L	25.0		93.8	27-120			
Surrogate: 2-Fluorobiphenyl	21.6			ug/L	25.0		86.4	33-120			
Surrogate: 2,4,6-Tribromophenol	37.6			ug/L	37.5		100	52-120			
Surrogate: p-Terphenyl-d14	21.4			ug/L	25.0		85.8	28-120			



GeoEngineers
17425 Union Hill Road Suite 250
Redmond WA, 98052

Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
11-Jul-2022 15:40

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BKF0469 - EPA 3546 (Microwave)

Instrument: NT10 Analyst: VTS

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKF0469-BLK1)											
						Prepared: 21-Jun-2022 Analyzed: 30-Jun-2022 16:07					
Naphthalene	ND	4.2	20.0	ug/kg							U
2-Methylnaphthalene	ND	4.5	20.0	ug/kg							U
Acenaphthene	ND	5.2	20.0	ug/kg							U
Pentachlorophenol	ND	31.3	100	ug/kg							U
Phenanthrene	ND	8.7	20.0	ug/kg							U
Fluoranthene	ND	6.1	20.0	ug/kg							U
Benzo(a)anthracene	ND	6.0	20.0	ug/kg							U
Chrysene	ND	6.1	20.0	ug/kg							U
Benzo(b)fluoranthene	ND	7.0	20.0	ug/kg							U
Benzo(k)fluoranthene	ND	5.0	20.0	ug/kg							U
Benzo(a)pyrene	ND	4.2	20.0	ug/kg							U
Indeno(1,2,3-cd)pyrene	ND	14.7	20.0	ug/kg							U
Dibenzo(a,h)anthracene	ND	17.2	20.0	ug/kg							U
1-Methylnaphthalene	ND	5.3	20.0	ug/kg							U
<hr/>											
<i>Surrogate: 2-Fluorophenol</i>	499			ug/kg	750		66.5	27-120			
<i>Surrogate: Phenol-d5</i>	487			ug/kg	750		64.9	29-120			
<i>Surrogate: 2-Chlorophenol-d4</i>	645			ug/kg	750		86.0	31-120			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	443			ug/kg	500		88.6	32-120			
<i>Surrogate: Nitrobenzene-d5</i>	424			ug/kg	500		84.8	30-120			
<i>Surrogate: 2-Fluorobiphenyl</i>	469			ug/kg	500		93.7	35-120			
<i>Surrogate: 2,4,6-Tribromophenol</i>	752			ug/kg	750		100	24-134			
<i>Surrogate: p-Terphenyl-d14</i>	648			ug/kg	500		130	37-120			*
<hr/>											
LCS (BKF0469-BS1)						Prepared: 21-Jun-2022 Analyzed: 30-Jun-2022 16:46					
Naphthalene	372	4.2	20.0	ug/kg	500		74.3	43-120			
2-Methylnaphthalene	406	4.5	20.0	ug/kg	500		81.2	43-120			
Acenaphthene	386	5.2	20.0	ug/kg	500		77.3	45-120			
Pentachlorophenol	1070	31.3	100	ug/kg	1300		82.5	16-120			Q
Phenanthrene	395	8.7	20.0	ug/kg	500		78.9	49-120			
Fluoranthene	503	6.1	20.0	ug/kg	500		101	53-145			
Benzo(a)anthracene	362	6.0	20.0	ug/kg	500		72.3	49-120			
Chrysene	408	6.1	20.0	ug/kg	500		81.6	47-120			
Benzo(b)fluoranthene	368	7.0	20.0	ug/kg	500		73.5	42-132			
Benzo(k)fluoranthene	346	5.0	20.0	ug/kg	500		69.2	39-129			
Benzo(a)pyrene	363	4.2	20.0	ug/kg	500		72.5	42-120			



GeoEngineers
17425 Union Hill Road Suite 250
Redmond WA, 98052

Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
11-Jul-2022 15:40

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BKF0469 - EPA 3546 (Microwave)

Instrument: NT10 Analyst: VTS

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BKF0469-BS1)					Prepared: 21-Jun-2022 Analyzed: 30-Jun-2022 16:46						
Indeno(1,2,3-cd)pyrene	344	14.7	20.0	ug/kg	500		68.8	42-163			
Dibenzo(a,h)anthracene	364	17.2	20.0	ug/kg	500		72.9	30-133			
1-Methylnaphthalene	403	5.3	20.0	ug/kg	500		80.7	42-120			
<i>Surrogate: 2-Fluorophenol</i>	638			ug/kg	750		85.1	27-120			
<i>Surrogate: Phenol-d5</i>	647			ug/kg	750		86.3	29-120			
<i>Surrogate: 2-Chlorophenol-d4</i>	759			ug/kg	750		101	31-120			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	467			ug/kg	500		93.3	32-120			
<i>Surrogate: Nitrobenzene-d5</i>	481			ug/kg	500		96.2	30-120			
<i>Surrogate: 2-Fluorobiphenyl</i>	490			ug/kg	500		98.0	35-120			
<i>Surrogate: 2,4,6-Tribromophenol</i>	794			ug/kg	750		106	24-134			
<i>Surrogate: p-Terphenyl-d14</i>	637			ug/kg	500		127	37-120			*
LCS Dup (BKF0469-BS1)					Prepared: 21-Jun-2022 Analyzed: 30-Jun-2022 17:25						
Naphthalene	355	4.2	20.0	ug/kg	500		71.0	43-120	4.58	30	
2-Methylnaphthalene	392	4.5	20.0	ug/kg	500		78.3	43-120	3.60	30	
Acenaphthene	370	5.2	20.0	ug/kg	500		74.0	45-120	4.31	30	
Pentachlorophenol	1060	31.3	100	ug/kg	1300		81.8	16-120	0.88	30	Q
Phenanthrene	372	8.7	20.0	ug/kg	500		74.4	49-120	5.91	30	
Fluoranthene	440	6.1	20.0	ug/kg	500		88.1	53-145	13.20	30	
Benzo(a)anthracene	332	6.0	20.0	ug/kg	500		66.4	49-120	8.63	30	
Chrysene	377	6.1	20.0	ug/kg	500		75.4	47-120	7.92	30	
Benzo(b)fluoranthene	344	7.0	20.0	ug/kg	500		68.8	42-132	6.60	30	
Benzo(k)fluoranthene	326	5.0	20.0	ug/kg	500		65.1	39-129	6.09	30	
Benzo(a)pyrene	342	4.2	20.0	ug/kg	500		68.4	42-120	5.79	30	
Indeno(1,2,3-cd)pyrene	325	14.7	20.0	ug/kg	500		65.0	42-163	5.57	30	
Dibenzo(a,h)anthracene	341	17.2	20.0	ug/kg	500		68.2	30-133	6.68	30	
1-Methylnaphthalene	391	5.3	20.0	ug/kg	500		78.3	42-120	3.01	30	
<i>Surrogate: 2-Fluorophenol</i>	590			ug/kg	750		78.6	27-120			
<i>Surrogate: Phenol-d5</i>	607			ug/kg	750		80.9	29-120			
<i>Surrogate: 2-Chlorophenol-d4</i>	640			ug/kg	750		85.3	31-120			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	421			ug/kg	500		84.3	32-120			
<i>Surrogate: Nitrobenzene-d5</i>	445			ug/kg	500		89.0	30-120			
<i>Surrogate: 2-Fluorobiphenyl</i>	450			ug/kg	500		89.9	35-120			
<i>Surrogate: 2,4,6-Tribromophenol</i>	748			ug/kg	750		99.7	24-134			



GeoEngineers
17425 Union Hill Road Suite 250
Redmond WA, 98052

Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
11-Jul-2022 15:40

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BKF0469 - EPA 3546 (Microwave)

Instrument: NT10 Analyst: VTS

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BKF0469-BSD1)						Prepared: 21-Jun-2022 Analyzed: 30-Jun-2022 17:25					
Surrogate: <i>p</i> -Terphenyl- <i>d</i> 14	553			ug/kg	500	111		37-120			

Matrix Spike (BKF0469-MS1)		Source: 22F0267-01		Prepared: 21-Jun-2022		Analyzed: 30-Jun-2022 18:44					
Naphthalene	471	4.2	20.0	ug/kg	500	67.1	80.7	43-120			
2-Methylnaphthalene	430	4.5	20.0	ug/kg	500	18.4	82.2	43-120			
Acenaphthene	399	5.2	20.0	ug/kg	500	5.6	78.7	45-120			
Pentachlorophenol	1750	31.3	100	ug/kg	1300	ND	134	16-120			*, Q
Phenanthrene	512	8.7	20.0	ug/kg	500	69.7	88.4	49-120			
Fluoranthene	518	6.1	20.0	ug/kg	500	115	80.5	53-145			
Benzo(a)anthracene	364	6.0	20.0	ug/kg	500	32.9	66.2	49-120			
Chrysene	515	6.1	20.0	ug/kg	500	51.3	92.7	47-120			
Benzo(b)fluoranthene	392	7.0	20.0	ug/kg	500	32.6	71.8	42-132			
Benzo(k)fluoranthene	328	5.0	20.0	ug/kg	500	28.6	59.8	39-129			
Benzo(a)pyrene	409	4.2	20.0	ug/kg	500	37.7	74.2	42-120			
Indeno(1,2,3-cd)pyrene	204	14.7	20.0	ug/kg	500	20.0	36.8	42-163			*
Dibenzo(a,h)anthracene	213	17.2	20.0	ug/kg	500	ND	42.5	30-133			
1-Methylnaphthalene	413	5.3	20.0	ug/kg	500	13.1	80.0	42-120			
Surrogate: 2-Fluorophenol	501			ug/kg	750	448	66.8	27-120			
Surrogate: Phenol- <i>d</i> 5	536			ug/kg	750	462	71.4	29-120			
Surrogate: 2-Chlorophenol- <i>d</i> 4	635			ug/kg	750	663	84.6	31-120			
Surrogate: 1,2-Dichlorobenzene- <i>d</i> 4	413			ug/kg	500	466	82.6	32-120			
Surrogate: Nitrobenzene- <i>d</i> 5	437			ug/kg	500	463	87.3	30-120			
Surrogate: 2-Fluorobiphenyl	457			ug/kg	500	507	91.3	35-120			
Surrogate: 2,4,6-Tribromophenol	649			ug/kg	750	773	86.5	24-134			
Surrogate: <i>p</i> -Terphenyl- <i>d</i> 14	399			ug/kg	500	580	79.8	37-120			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Matrix Spike Dup (BKF0469-MSD1)		Source: 22F0267-01		Prepared: 21-Jun-2022		Analyzed: 30-Jun-2022 19:23					
Naphthalene	476	4.2	20.0	ug/kg	500	67.1	81.8	43-120	1.13	30	
2-Methylnaphthalene	439	4.5	20.0	ug/kg	500	18.4	84.1	43-120	2.19	30	
Acenaphthene	414	5.2	20.0	ug/kg	500	5.6	81.7	45-120	3.67	30	
Pentachlorophenol	1660	31.3	100	ug/kg	1300	ND	128	16-120	4.94	30	*, Q
Phenanthrene	499	8.7	20.0	ug/kg	500	69.7	85.9	49-120	2.52	30	
Fluoranthene	426	6.1	20.0	ug/kg	500	115	62.0	53-145	19.60	30	
Benzo(a)anthracene	357	6.0	20.0	ug/kg	500	32.9	64.7	49-120	2.10	30	



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BKF0469 - EPA 3546 (Microwave)

Instrument: NT10 Analyst: VTS

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike Dup (BKF0469-MSD1)											
		Source: 22F0267-01			Prepared: 21-Jun-2022		Analyzed: 30-Jun-2022 19:23				
Chrysene	505	6.1	20.0	ug/kg	500	51.3	90.7	47-120	1.92	30	
Benzo(b)fluoranthene	392	7.0	20.0	ug/kg	500	32.6	71.8	42-132	0.02	30	
Benzo(k)fluoranthene	341	5.0	20.0	ug/kg	500	28.6	62.4	39-129	3.86	30	
Benzo(a)pyrene	379	4.2	20.0	ug/kg	500	37.7	68.3	42-120	7.47	30	
Indeno(1,2,3-cd)pyrene	201	14.7	20.0	ug/kg	500	20.0	36.1	42-163	1.69	30	*
Dibenzo(a,h)anthracene	220	17.2	20.0	ug/kg	500	ND	43.9	30-133	3.15	30	
1-Methylnaphthalene	436	5.3	20.0	ug/kg	500	13.1	84.5	42-120	5.32	30	
<i>Surrogate: 2-Fluorophenol</i>	551			ug/kg	750	448	73.5	27-120			
<i>Surrogate: Phenol-d5</i>	574			ug/kg	750	462	76.6	29-120			
<i>Surrogate: 2-Chlorophenol-d4</i>	692			ug/kg	750	663	92.2	31-120			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	451			ug/kg	500	466	90.2	32-120			
<i>Surrogate: Nitrobenzene-d5</i>	471			ug/kg	500	463	94.2	30-120			
<i>Surrogate: 2-Fluorobiphenyl</i>	496			ug/kg	500	507	99.2	35-120			
<i>Surrogate: 2,4,6-Tribromophenol</i>	715			ug/kg	750	773	95.3	24-134			
<i>Surrogate: p-Terphenyl-d14</i>	421			ug/kg	500	580	84.2	37-120			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKF0451 - EPA 3510C SepF

Instrument: FID4 Analyst: CTO

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKF0451-BLK1)		Prepared: 22-Jun-2022 Analyzed: 24-Jun-2022 17:56								
Diesel Range Organics (C12-C24)	ND	0.100	mg/L							U
Motor Oil Range Organics (C24-C38)	ND	0.200	mg/L							U
<i>Surrogate: o-Terphenyl</i>	0.197		mg/L	0.225		87.4	50-150			
LCS (BKF0451-BS1)		Prepared: 22-Jun-2022 Analyzed: 24-Jun-2022 18:16								
Diesel Range Organics (C12-C24)	2.28	0.100	mg/L	3.00		76.1	56-120			
<i>Surrogate: o-Terphenyl</i>	0.196		mg/L	0.225		87.3	50-150			
LCS Dup (BKF0451-BSD1)		Prepared: 22-Jun-2022 Analyzed: 24-Jun-2022 18:36								
Diesel Range Organics (C12-C24)	2.65	0.100	mg/L	3.00		88.3	56-120	14.80	30	
<i>Surrogate: o-Terphenyl</i>	0.202		mg/L	0.225		89.7	50-150			



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKF0467 - EPA 3546 (Microwave)

Instrument: FID3 Analyst: CTO

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKF0467-BLK1)		Prepared: 21-Jun-2022 Analyzed: 24-Jun-2022 16:49								
Diesel Range Organics (C12-C24)	ND	5.00	mg/kg							U
Motor Oil Range Organics (C24-C38)	ND	10.0	mg/kg							U
<i>Surrogate: o-Terphenyl</i>	10.9		mg/kg	11.3		96.5	50-150			
LCS (BKF0467-BS1)		Prepared: 21-Jun-2022 Analyzed: 24-Jun-2022 17:10								
Diesel Range Organics (C12-C24)	139	5.00	mg/kg	150		92.5	63-120			
<i>Surrogate: o-Terphenyl</i>	10.3		mg/kg	11.3		91.5	50-150			
LCS Dup (BKF0467-BSD1)		Prepared: 21-Jun-2022 Analyzed: 24-Jun-2022 17:32								
Diesel Range Organics (C12-C24)	157	5.00	mg/kg	150		104	63-120	12.10	30	
<i>Surrogate: o-Terphenyl</i>	11.4		mg/kg	11.3		102	50-150			
Matrix Spike (BKF0467-MS1)		Source: 22F0267-07		Prepared: 21-Jun-2022 Analyzed: 24-Jun-2022 17:53						
Diesel Range Organics (C12-C24)	640	6.01	mg/kg	180	293	192	63-120			*, E
<i>Surrogate: o-Terphenyl</i>	12.3		mg/kg	13.5	11.2	91.4	50-150			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Matrix Spike Dup (BKF0467-MSD1)		Source: 22F0267-07		Prepared: 21-Jun-2022 Analyzed: 24-Jun-2022 18:14						
Diesel Range Organics (C12-C24)	580	6.01	mg/kg	180	293	159	63-120	9.79	30	*, E
<i>Surrogate: o-Terphenyl</i>	12.2		mg/kg	13.5	11.2	90.2	50-150			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



GeoEngineers
17425 Union Hill Road Suite 250
Redmond WA, 98052

Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
11-Jul-2022 15:40

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BKF0468 - EPA 3546 (Microwave)

Instrument: FID3 Analyst: CTO

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKF0468-BLK1)		Prepared: 21-Jun-2022 Analyzed: 24-Jun-2022 11:10								
Diesel Range Organics (C12-C24)	ND	5.00	mg/kg							U
Motor Oil Range Organics (C24-C38)	ND	10.0	mg/kg							U
<i>Surrogate: o-Terphenyl</i>	10.8		mg/kg	11.3		95.6	50-150			
LCS (BKF0468-BS1)		Prepared: 21-Jun-2022 Analyzed: 24-Jun-2022 11:31								
Diesel Range Organics (C12-C24)	146	5.00	mg/kg	150		97.1	63-120			
<i>Surrogate: o-Terphenyl</i>	11.2		mg/kg	11.3		99.2	50-150			
LCS Dup (BKF0468-BSD1)		Prepared: 21-Jun-2022 Analyzed: 24-Jun-2022 11:52								
Diesel Range Organics (C12-C24)	153	5.00	mg/kg	150		102	63-120	5.20	30	
<i>Surrogate: o-Terphenyl</i>	11.4		mg/kg	11.3		101	50-150			
Matrix Spike (BKF0468-MS1)		Source: 22F0267-06		Prepared: 21-Jun-2022 Analyzed: 24-Jun-2022 13:17						
Diesel Range Organics (C12-C24)	205	6.37	mg/kg	191	56.8	77.5	63-120			
<i>Surrogate: o-Terphenyl</i>	13.2		mg/kg	14.3	11.8	92.1	50-150			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike Dup (BKF0468-MSD1)		Source: 22F0267-06		Prepared: 21-Jun-2022 Analyzed: 24-Jun-2022 13:38						
Diesel Range Organics (C12-C24)	187	6.37	mg/kg	191	56.8	68.4	63-120	8.91	30	
<i>Surrogate: o-Terphenyl</i>	11.3		mg/kg	14.3	11.8	78.8	50-150			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Analysis by: Analytical Resources, LLC

Phenols - Quality Control

Batch BKF0449 - EPA 3510C SepF

Instrument: ECD8 Analyst: YZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKF0449-BLK1)						Prepared: 21-Jun-2022 Analyzed: 25-Jun-2022 12:29					
Pentachlorophenol	ND	0.09	0.25	ug/L							U
<i>Surrogate: 2,4,6-Tribromophenol</i>	1.48			ug/L	2.50		59.4	26-120			
<i>Surrogate: 2,4,6-Tribromophenol [2C]</i>	1.68			ug/L	2.50		67.2	26-120			
LCS (BKF0449-BS1)						Prepared: 21-Jun-2022 Analyzed: 25-Jun-2022 12:47					
Pentachlorophenol [2C]	1.43	0.09	0.25	ug/L	2.50		57.1	48-120			
<i>Surrogate: 2,4,6-Tribromophenol</i>	1.40			ug/L	2.50		56.1	26-120			
<i>Surrogate: 2,4,6-Tribromophenol [2C]</i>	1.57			ug/L	2.50		63.0	26-120			
LCS Dup (BKF0449-BSD1)						Prepared: 21-Jun-2022 Analyzed: 25-Jun-2022 13:04					
Pentachlorophenol [2C]	1.70	0.09	0.25	ug/L	2.50		68.2	48-120	17.80	30	
<i>Surrogate: 2,4,6-Tribromophenol</i>	1.73			ug/L	2.50		69.2	26-120			
<i>Surrogate: 2,4,6-Tribromophenol [2C]</i>	1.99			ug/L	2.50		79.6	26-120			



GeoEngineers
17425 Union Hill Road Suite 250
Redmond WA, 98052

Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
11-Jul-2022 15:40

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKF0437 - Plumb 1981

Instrument: TOC Cube Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKF0437-BLK1)						Prepared: 20-Jun-2022 Analyzed: 20-Jun-2022 18:39					
Total Organic Carbon	ND	0.02	0.02	%							U
LCS (BKF0437-BS1)						Prepared: 20-Jun-2022 Analyzed: 20-Jun-2022 19:09					
Total Organic Carbon	44.2	0.02	0.02	%	44.4		99.4	80-120			
Duplicate (BKF0437-DUP2)						Source: 22F0267-01RE1 Prepared: 20-Jun-2022 Analyzed: 22-Jun-2022 14:28					
Total Organic Carbon	19.7	0.02	0.02	%		9.41			70.60	20	*
Matrix Spike (BKF0437-MS2)						Source: 22F0267-01RE1 Prepared: 20-Jun-2022 Analyzed: 22-Jun-2022 14:58					
Total Organic Carbon	15.8	0.02	0.02	%	5.98	9.41	107	75-125			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											
Matrix Spike Dup (BKF0437-MSD2)						Source: 22F0267-01RE1 Prepared: 20-Jun-2022 Analyzed: 22-Jun-2022 15:28					
Total Organic Carbon	18.3	0.02	0.02	%	5.81	9.41	152	75-125	14.30	20	*

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKF0465 - No Prep Wet Chem

Instrument: BAL2 Analyst: DOE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKF0465-BLK1)						Prepared: 21-Jun-2022 Analyzed: 21-Jun-2022 08:01					
Total Solids	ND	0.04	0.04	%							U



GeoEngineers 17425 Union Hill Road Suite 250 Redmond WA, 98052	Project: RG Haley Site-Bellingham Project Number: 0356-114-08 Project Manager: Brian Tracy	Reported: 11-Jul-2022 15:40
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Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKF0658 - No Prep Wet Chem

Instrument: TOC-LCSH Analyst: RMS

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKF0658-BLK1)						Prepared: 28-Jun-2022 Analyzed: 28-Jun-2022 19:42					
Total Organic Carbon	ND	0.50	0.50	mg/L							U
LCS (BKF0658-BS1)						Prepared: 28-Jun-2022 Analyzed: 28-Jun-2022 20:01					
Total Organic Carbon	20.69	0.50	0.50	mg/L	20.00		103	90-110			
Duplicate (BKF0658-DUP1)						Source: 22F0267-09 Prepared: 28-Jun-2022 Analyzed: 29-Jun-2022 00:46					
Total Organic Carbon	7.06	2.50	2.50	mg/L		6.72			4.96	20	D
Matrix Spike (BKF0658-MS1)						Source: 22F0267-09 Prepared: 28-Jun-2022 Analyzed: 29-Jun-2022 01:08					
Total Organic Carbon	46.59	2.50	2.50	mg/L	40.00	6.72	99.7	75-125			D

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Matrix Spike Dup (BKF0658-MSD1)						Source: 22F0267-09 Prepared: 28-Jun-2022 Analyzed: 29-Jun-2022 01:30					
Total Organic Carbon	46.46	2.50	2.50	mg/L	40.00	6.72	99.3	75-125	0.28	20	D

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Redmond WA, 98052

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Certified Analyses included in this Report

Analyte	Certifications
EPA 8270E in Solid	
Phenol	DoD-ELAP,NELAP,WADOE
bis(2-chloroethyl) ether	DoD-ELAP,NELAP,WADOE
2-Chlorophenol	DoD-ELAP,NELAP,WADOE
1,3-Dichlorobenzene	DoD-ELAP,NELAP,WADOE
1,4-Dichlorobenzene	DoD-ELAP,NELAP,WADOE
1,2-Dichlorobenzene	DoD-ELAP,NELAP,WADOE
Benzyl Alcohol	DoD-ELAP,NELAP,WADOE
2,2'-Oxybis(1-chloropropane)	DoD-ELAP,NELAP
2-Methylphenol	DoD-ELAP,NELAP,WADOE
Hexachloroethane	DoD-ELAP,NELAP,WADOE
N-Nitroso-di-n-Propylamine	DoD-ELAP,NELAP,WADOE
4-Methylphenol	DoD-ELAP,NELAP,WADOE
Nitrobenzene	DoD-ELAP,NELAP,WADOE
Isophorone	DoD-ELAP,NELAP,WADOE
2-Nitrophenol	DoD-ELAP,NELAP,WADOE
2,4-Dimethylphenol	DoD-ELAP,NELAP,WADOE
Bis(2-Chloroethoxy)methane	DoD-ELAP,NELAP,WADOE
2,4-Dichlorophenol	DoD-ELAP,NELAP,WADOE
1,2,4-Trichlorobenzene	DoD-ELAP,NELAP,WADOE
Naphthalene	DoD-ELAP,NELAP,WADOE,ADEC
Benzoic acid	DoD-ELAP,NELAP,WADOE
4-Chloroaniline	DoD-ELAP,NELAP,WADOE
Hexachlorobutadiene	DoD-ELAP,NELAP,WADOE
4-Chloro-3-Methylphenol	DoD-ELAP,NELAP,WADOE
2-Methylnaphthalene	DoD-ELAP,NELAP,WADOE,ADEC
Hexachlorocyclopentadiene	DoD-ELAP,NELAP,WADOE
2,4,6-Trichlorophenol	DoD-ELAP,NELAP,WADOE
2,4,5-Trichlorophenol	DoD-ELAP,NELAP,WADOE
2-Chloronaphthalene	DoD-ELAP,NELAP,WADOE
2-Nitroaniline	DoD-ELAP,NELAP,WADOE
Acenaphthylene	DoD-ELAP,NELAP,WADOE,ADEC
Dimethylphthalate	DoD-ELAP,NELAP,WADOE
2,6-Dinitrotoluene	DoD-ELAP,NELAP,WADOE
Acenaphthene	DoD-ELAP,NELAP,WADOE,ADEC
3-Nitroaniline	DoD-ELAP,NELAP,WADOE



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2,4-Dinitrophenol	DoD-ELAP,NELAP,WADOE
Dibenzofuran	DoD-ELAP,NELAP,WADOE,ADEC
4-Nitrophenol	DoD-ELAP,NELAP,WADOE
2,4-Dinitrotoluene	DoD-ELAP,NELAP,WADOE
Fluorene	DoD-ELAP,NELAP,WADOE,ADEC
4-Chlorophenylphenyl ether	DoD-ELAP,NELAP
Diethyl phthalate	DoD-ELAP,NELAP,WADOE
4-Nitroaniline	DoD-ELAP,NELAP,WADOE
4,6-Dinitro-2-methylphenol	DoD-ELAP,NELAP,WADOE
N-Nitrosodiphenylamine	DoD-ELAP,NELAP,WADOE
4-Bromophenyl phenyl ether	DoD-ELAP,NELAP,WADOE
Hexachlorobenzene	DoD-ELAP,NELAP,WADOE
Pentachlorophenol	DoD-ELAP,NELAP,WADOE
Phenanthrene	DoD-ELAP,NELAP,WADOE,ADEC
Anthracene	DoD-ELAP,NELAP,WADOE,ADEC
Carbazole	DoD-ELAP,NELAP,WADOE,ADEC
Di-n-Butylphthalate	DoD-ELAP,NELAP,WADOE
Fluoranthene	DoD-ELAP,NELAP,WADOE,ADEC
Pyrene	DoD-ELAP,NELAP,WADOE,ADEC
Butylbenzylphthalate	DoD-ELAP,NELAP,WADOE
Benzo(a)anthracene	DoD-ELAP,NELAP,WADOE,ADEC
3,3'-Dichlorobenzidine	DoD-ELAP,NELAP,WADOE
Chrysene	DoD-ELAP,NELAP,WADOE,ADEC
bis(2-Ethylhexyl)phthalate	DoD-ELAP,NELAP,WADOE
Di-n-Octylphthalate	DoD-ELAP,NELAP,WADOE
Benzo(b)fluoranthene	DoD-ELAP,NELAP,WADOE,ADEC
Benzo(k)fluoranthene	DoD-ELAP,NELAP,WADOE,ADEC
Benzofluoranthenes, Total	WADOE,ADEC
Benzo(a)pyrene	DoD-ELAP,NELAP,WADOE,ADEC
Indeno(1,2,3-cd)pyrene	DoD-ELAP,NELAP,WADOE,ADEC
Dibenzo(a,h)anthracene	DoD-ELAP,NELAP,WADOE,ADEC
Benzo(g,h,i)perylene	DoD-ELAP,NELAP,WADOE,ADEC
N-Nitrosodimethylamine	DoD-ELAP,NELAP,WADOE
Aniline	DoD-ELAP,NELAP,WADOE
Retene	DoD-ELAP,NELAP,WADOE
Pyridine	DoD-ELAP,NELAP,WADOE
1-Methylnaphthalene	DoD-ELAP,NELAP,WADOE,ADEC
Azobenzene (1,2-DP-Hydrazine)	NELAP,WADOE
2,3,4,6-Tetrachlorophenol	DoD-ELAP,WADOE



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Benzidine	DoD-ELAP,NELAP
Tetrachloroguaiacol	DoD-ELAP,WADOE
3,4,5-Trichloroguaiacol	WADOE
3,4,6-Trichloroguaiacol	WADOE
4,5,6-Trichloroguaiacol	WADOE
Guaiacol	WADOE

EPA 8270E in Water

Phenol	WADOE,DoD-ELAP,NELAP
bis(2-chloroethyl) ether	WADOE,DoD-ELAP,NELAP
2-Chlorophenol	WADOE,DoD-ELAP,NELAP
1,3-Dichlorobenzene	WADOE,DoD-ELAP,NELAP
1,4-Dichlorobenzene	WADOE,DoD-ELAP,NELAP
Benzyl Alcohol	WADOE,DoD-ELAP,NELAP
1,2-Dichlorobenzene	WADOE,DoD-ELAP,NELAP
2-Methylphenol	WADOE,DoD-ELAP,NELAP
2,2'-Oxybis(1-chloropropane)	DoD-ELAP
4-Methylphenol	WADOE,DoD-ELAP,NELAP
N-Nitroso-di-n-Propylamine	WADOE,DoD-ELAP,NELAP
Hexachloroethane	WADOE,DoD-ELAP,NELAP
Nitrobenzene	WADOE,DoD-ELAP,NELAP
Isophorone	WADOE,DoD-ELAP,NELAP
2-Nitrophenol	WADOE,DoD-ELAP,NELAP
2,4-Dimethylphenol	WADOE,DoD-ELAP,NELAP
Bis(2-Chloroethoxy)methane	WADOE,DoD-ELAP,NELAP
Benzoic acid	WADOE,DoD-ELAP,NELAP
2,4-Dichlorophenol	WADOE,DoD-ELAP,NELAP
1,2,4-Trichlorobenzene	WADOE,DoD-ELAP,NELAP
Naphthalene	WADOE,ADEC,DoD-ELAP,NELAP
4-Chloroaniline	WADOE,DoD-ELAP,NELAP
Hexachlorobutadiene	WADOE,DoD-ELAP,NELAP
4-Chloro-3-Methylphenol	WADOE,DoD-ELAP,NELAP
2-Methylnaphthalene	WADOE,ADEC,DoD-ELAP,NELAP
Hexachlorocyclopentadiene	WADOE,DoD-ELAP,NELAP
2,4,6-Trichlorophenol	WADOE,DoD-ELAP,NELAP
2,4,5-Trichlorophenol	WADOE,DoD-ELAP,NELAP
2-Chloronaphthalene	WADOE,DoD-ELAP,NELAP
2-Nitroaniline	WADOE,DoD-ELAP,NELAP
Dimethylphthalate	WADOE,DoD-ELAP,NELAP
Acenaphthylene	WADOE,ADEC,DoD-ELAP,NELAP



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2,6-Dinitrotoluene	WADOE,DoD-ELAP,NELAP
3-Nitroaniline	WADOE,DoD-ELAP,NELAP
Acenaphthene	WADOE,ADEC,DoD-ELAP,NELAP
2,4-Dinitrophenol	WADOE,DoD-ELAP,NELAP
Dibenzofuran	WADOE,ADEC,DoD-ELAP,NELAP
4-Nitrophenol	WADOE,DoD-ELAP,NELAP
2,4-Dinitrotoluene	WADOE,DoD-ELAP,NELAP
Fluorene	WADOE,ADEC,DoD-ELAP,NELAP
Diethyl phthalate	WADOE,DoD-ELAP,NELAP
4-Chlorophenylphenyl ether	WADOE,DoD-ELAP,NELAP
4-Nitroaniline	WADOE,DoD-ELAP,NELAP
4,6-Dinitro-2-methylphenol	WADOE,DoD-ELAP,NELAP
N-Nitrosodiphenylamine	DoD-ELAP
4-Bromophenyl phenyl ether	WADOE,DoD-ELAP,NELAP
Hexachlorobenzene	WADOE,DoD-ELAP,NELAP
Pentachlorophenol	WADOE,DoD-ELAP,NELAP
Phenanthrene	WADOE,ADEC,DoD-ELAP,NELAP
Anthracene	WADOE,ADEC,DoD-ELAP,NELAP
Carbazole	WADOE,ADEC,DoD-ELAP,NELAP
Di-n-Butylphthalate	WADOE,DoD-ELAP,NELAP
Fluoranthene	WADOE,ADEC,DoD-ELAP,NELAP
Pyrene	WADOE,ADEC,DoD-ELAP,NELAP
Butylbenzylphthalate	WADOE,DoD-ELAP,NELAP
Benzo(a)anthracene	WADOE,ADEC,DoD-ELAP,NELAP
3,3'-Dichlorobenzidine	DoD-ELAP
Chrysene	WADOE,ADEC,DoD-ELAP,NELAP
bis(2-Ethylhexyl)phthalate	WADOE,DoD-ELAP,NELAP
Di-n-Octylphthalate	WADOE,DoD-ELAP,NELAP
Benzo(b)fluoranthene	WADOE,ADEC,DoD-ELAP,NELAP
Benzo(k)fluoranthene	WADOE,ADEC,DoD-ELAP,NELAP
Benzo(a)pyrene	WADOE,ADEC,DoD-ELAP,NELAP
Indeno(1,2,3-cd)pyrene	WADOE,ADEC,DoD-ELAP,NELAP
Dibenzo(a,h)anthracene	WADOE,ADEC,DoD-ELAP,NELAP
Benzo(g,h,i)perylene	WADOE,ADEC,DoD-ELAP,NELAP
Benzofluoranthenes, Total	WADOE,ADEC,DoD-ELAP,NELAP
1-Methylnaphthalene	WADOE,ADEC,DoD-ELAP,NELAP
N-Nitrosodimethylamine	WADOE,DoD-ELAP,NELAP
Aniline	WADOE,DoD-ELAP,NELAP
Benzidine	WADOE,DoD-ELAP,NELAP



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Retene	WADOE,ADEC,DoD-ELAP,NELAP
Perylene	WADOE,ADEC
Pyridine	WADOE,DoD-ELAP,NELAP
2,6-Dichlorophenol	WADOE
alpha-Terpineol	WADOE,DoD-ELAP,NELAP
1,4-Dioxane	WADOE,DoD-ELAP,NELAP
2,3,4,6-Tetrachlorophenol	WADOE,DoD-ELAP
Triphenyl Phosphate	WADOE,DoD-ELAP,NELAP
Butyl Diphenyl Phosphate	WADOE,DoD-ELAP,NELAP
Dibutyl Phenyl Phosphate	WADOE,DoD-ELAP,NELAP
Tributyl Phosphate	WADOE,DoD-ELAP,NELAP
Butylated Hydroxytoluene	WADOE,DoD-ELAP,NELAP
Azobenzene (1,2-DP-Hydrazine)	WADOE,DoD-ELAP,NELAP
Tetrachloroguaiacol	WADOE,DoD-ELAP
3,4,5-Trichloroguaiacol	WADOE
3,4,6-Trichloroguaiacol	WADOE
4,5,6-Trichloroguaiacol	WADOE
Guaiacol	WADOE
1,2,4,5-Tetrachlorobenzene	WADOE,DoD-ELAP,NELAP

EPA 9060A in Water

Total Organic Carbon DoD-ELAP,WADOE,NELAP

EPA 9060A m in Solid

Total Organic Carbon WADOE

NWTPH-Dx in Solid

Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE



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JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE

NWTPH-Dx in Water

Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022



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Notes and Definitions

- * Flagged value is not within established control limits.
- D The reported value is from a dilution
- E The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
- J Estimated concentration value detected below the reporting limit.
- M Estimated value for a GC/MS analyte detected and confirmed by an analyst but with low spectral match parameters.
- NRS This surrogate not reported due to chromatographic interference
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20% RSD, <20% drift or minimum RRF)
- U This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- [2C] Indicates this result was quantified on the second column on a dual column analysis.



Analytical Resources, LLC
Analytical Chemists and Consultants

25 July 2022

Brian Tracy
GeoEngineers
17425 Union Hill Road Suite 250
Redmond, WA 98052

RE: RG Haley Site-Bellingham

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

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

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

<u>Associated Work Order(s)</u>	<u>Associated SDG ID(s)</u>
22G0121	N/A

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

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

Analytical Resources, LLC

Kelly Bottem For Shelly Fishel, Project Manager

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



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 22G0121	Turn-around Requested: Standard	Date: 7/07/22
ARI Client Company: GeoEngineers	Phone: 206-239-3250	Page: 1 of 1
Client Contact: Brian Tracy	No. of Coolers: 1	Cooler Temps: 4°C



Analytical Resources, LLC
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: RG Haley PRDI	Analysis Requested	Notes/Comments
Client Project #: 0356-114-08		
Samplers: EcoAnalysts		

Sample ID	Date	Time	Matrix	Number of Containers	NWTPH-Dx	NWTPH-Dx with acid silica gel cleanup	PAHs ¹ and PCP (EPA 8270E)	PAHs ¹ (EPA 8270E)	PCP (EPA 8041A)	Total Organic Carbon (SW 9060A)			
Z1A-1-PW	7/06/22	1130	Water	1	X								
Z1A-4-PW	7/06/22	1130	Water	2	X		X			X			Samples from extracted sediment porewater.
Z1A-7-PW	7/06/22	1110	Water	2	X		X			X			
Z1A-10-PW	7/06/22	1110	Water	1	X								

Comments/Special Instructions ¹ PAHs list to include 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, fluoranthene, naphthalene, phenanthrene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene).	Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Marisa Seibert	Printed Name: VAN SPOHN	Printed Name:	Printed Name:
	Company: EcoAnalysts	Company: ARI	Company:	Company:
	Date & Time: 7/07/22	Date & Time: 7/8/2022 6:47 AM	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer.



Cooler Receipt Form

ARI Client: GeoEngineers
COC No(s): _____ NA
Assigned ARI Job No: 2260121

Project Name: R.G. Hakey PRDI
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES YES NO
Were custody papers properly filled out (ink, signed, etc.) YES YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)
Time _____ 4.0 _____
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: _____

Cooler Accepted by: VS - HN Date: 7/8/22 Time: 6:47

Complete custody forms and attach all shipping documents

Log-In Phase:

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

Samples Logged by: HN Date: 07/11/22 Time: 8:47 Labels checked by: _____

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Analytical Resources, LLC
Analytical Chemists and Consultants

GeoEngineers

Project: RG Haley Site-Bellingham

17425 Union Hill Road Suite 250

Project Number: 0356-114-08

Reported:

Redmond, WA 98052

Project Manager: Brian Tracy

07/25/2022 12:47

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
22G0121-01	Z1A-1-PW	Water	07/06/22 11:30	07/08/22 06:47
22G0121-02	Z1A-4-PW	Water	07/06/22 11:30	07/08/22 06:47
22G0121-03	Z1A-7-PW	Water	07/06/22 11:10	07/08/22 06:47
22G0121-04	Z1A-10-PW	Water	07/06/22 11:10	07/08/22 06:47



GeoEngineers
17425 Union Hill Road Suite 250
Redmond WA, 98052

Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
25-Jul-2022 12:47

Case Narrative

Semivolatiles - EPA Method SW8270E

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

Initial and continuing calibrations were within method requirements with the exception of all associated "Q" flagged analytes which are out of control low in the ICV. All associated samples that contain analyte have been flagged with a "Q" qualifier.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits with the exception of surrogates flagged on the associated forms.

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

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

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

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

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

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

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

Wet Chemistry

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

Initial and continuing calibrations were within method requirements.

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

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



QUALIFIERS AND NOTES

<u>Qualifier</u>	<u>Definition</u>
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
Q	Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20% RSD, <20% drift or minimum RRF)
J	Estimated concentration value detected below the reporting limit.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
D1	Surrogate was not detected due to sample extract dilution
D	The reported value is from a dilution
*	Flagged value is not within established control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E
Semivolatile Organic Compounds (67 ug/kg -1 ug/L)

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Water

Laboratory ID: 22G0121-02 B

SDG: 22G0121

Sampled: 07/06/22 11:30

Prepared: 07/11/22 13:42

File ID: NT622071326.D

% Solids:

Preparation: EPA 3520C (Liq Liq)

Analyzed: 07/14/22 00:55

Batch: BKG0169

Sequence: SKG0132

Initial/Final: 350 mL / 0.5 mL

Instrument: NT6

Column: ZB-5MSi

Calibration: FE00035

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
91-20-3	Naphthalene	1	26.0		0.4	1.4
91-57-6	2-Methylnaphthalene	1	82.6		0.3	1.4
83-32-9	Acenaphthene	1	20.4		0.4	1.4
87-86-5	Pentachlorophenol	1	3.7	U	3.7	14.3
85-01-8	Phenanthrene	1	45.9		0.3	1.4
206-44-0	Fluoranthene	1	1.3	J	0.6	1.4
56-55-3	Benzo(a)anthracene	1	0.6	U	0.6	1.4
218-01-9	Chrysene	1	0.5	U	0.5	1.4
205-99-2	Benzo(b)fluoranthene	1	0.6	U	0.6	1.4
207-08-9	Benzo(k)fluoranthene	1	0.6	U	0.6	1.4
50-32-8	Benzo(a)pyrene	1	0.7	U	0.7	1.4
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.6	U	0.6	1.4
53-70-3	Dibenzo(a,h)anthracene	1	0.6	U	0.6	1.4
90-12-0	1-Methylnaphthalene	1	242	E	0.4	1.4

SURROGATES	ADDED:(ug/L)	(ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	53.571	48.1	89.8	33 - 120	
Phenol-d5	53.571	52.7	98.3	38 - 120	
2-Chlorophenol-d4	53.571	52.8	98.6	41 - 120	
1,2-Dichlorobenzene-d4	35.714	31.1	87.0	20 - 120	
Nitrobenzene-d5	35.714	37.1	104	27 - 120	
2-Fluorobiphenyl	35.714	32.9	92.2	33 - 120	
2,4,6-Tribromophenol	53.571	70.9	132	52 - 120	*
p-Terphenyl-d14	35.714	26.5	74.2	28 - 120	

Data File: \\target\share\chem3\nt6.1\20220713A,B\NT622071326.D

Date: 14-JUL-2022 00:55

Client ID:

Sample Info: 22C0121-02

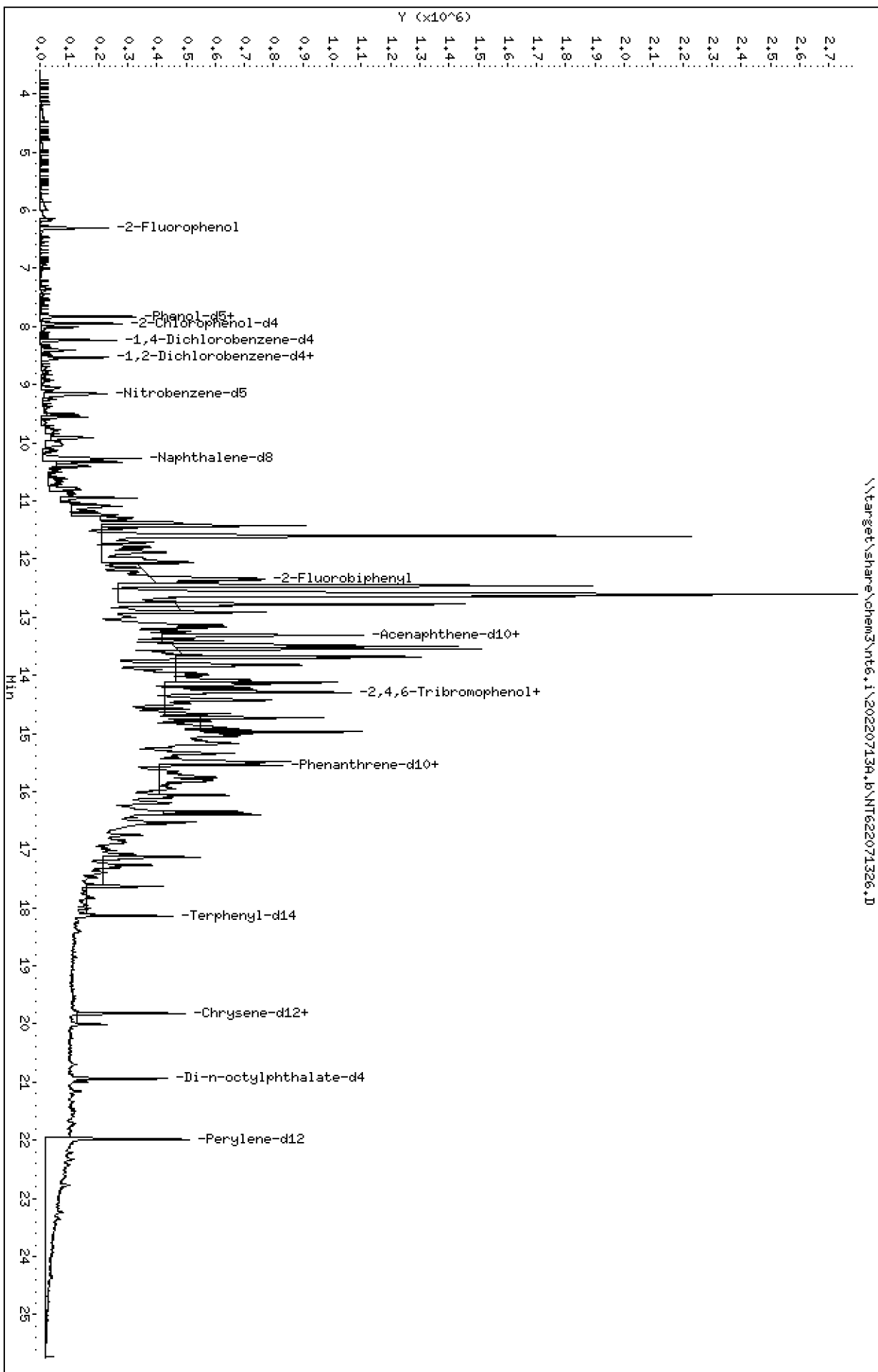
Column phase: ZB-5msi

Instrument: nt6.1

Operator: JZ

Column diameter: 0.32

Page 1



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02

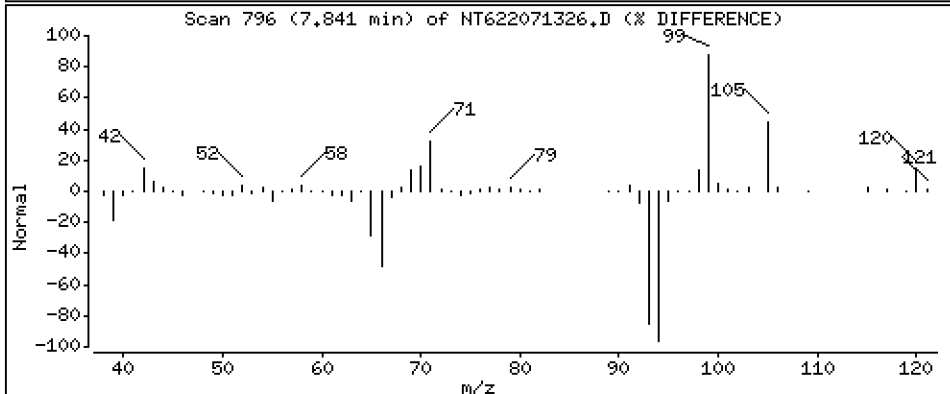
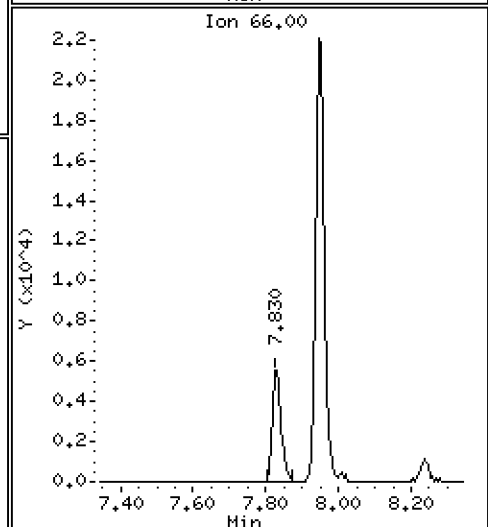
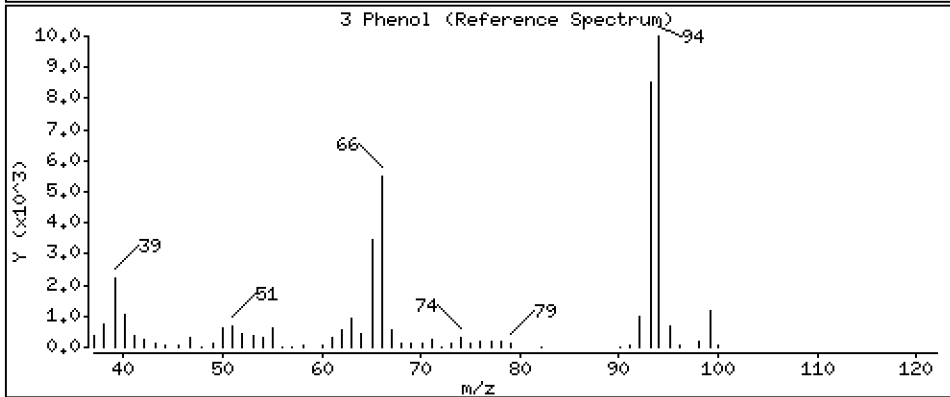
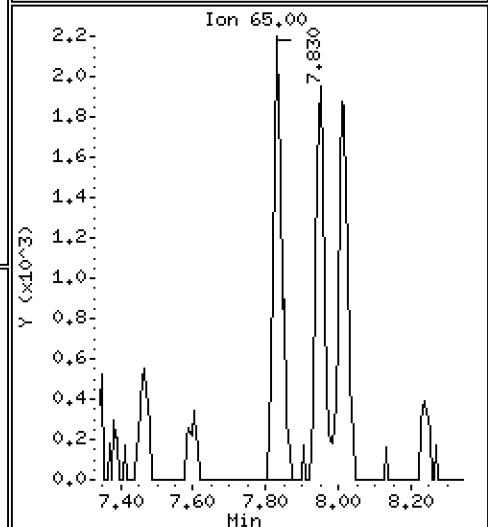
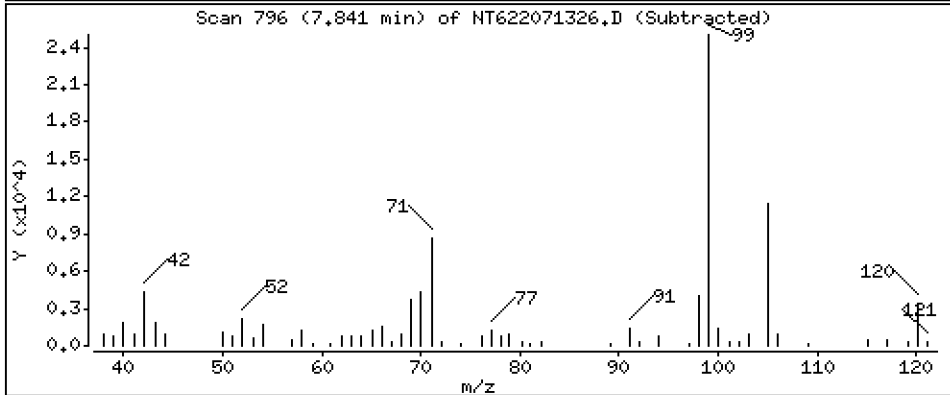
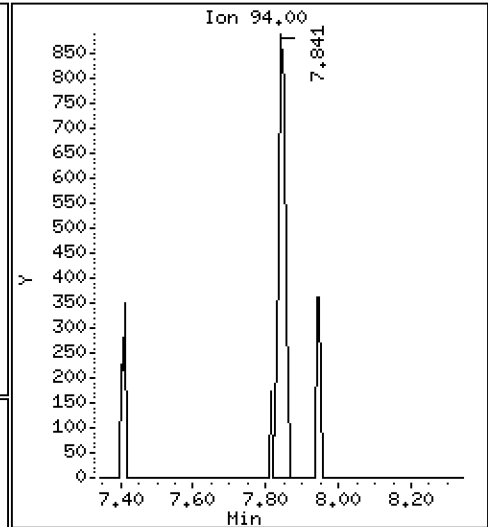
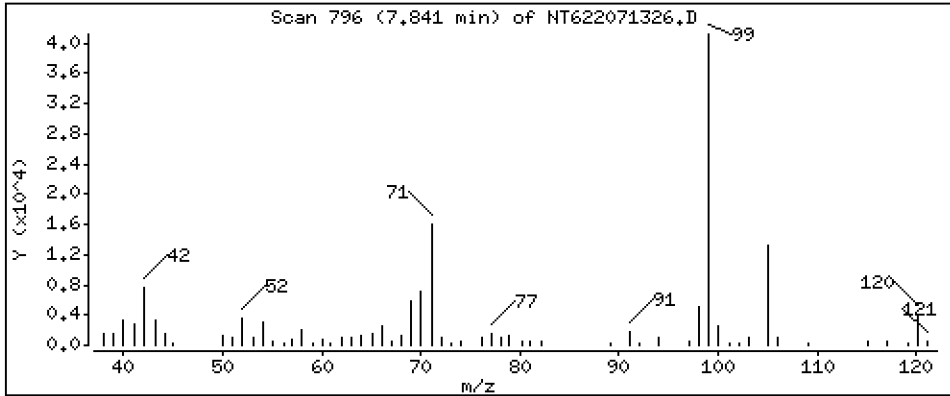
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

3 Phenol

Concentration: 0.2726 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02

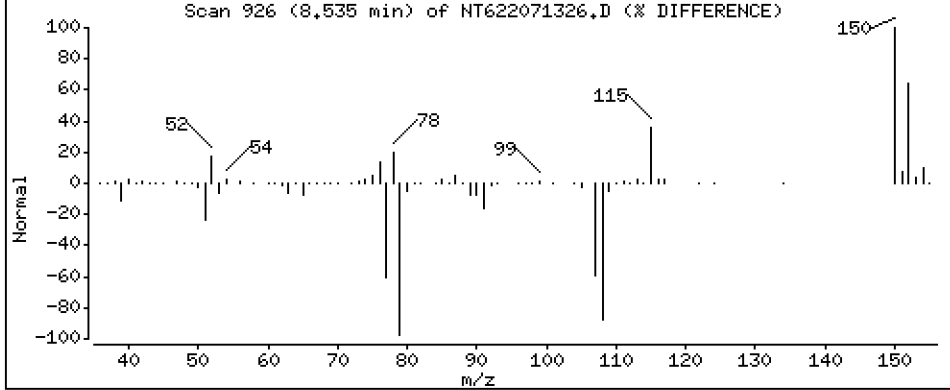
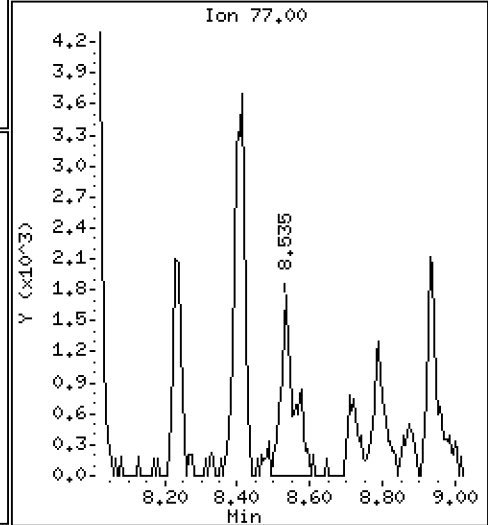
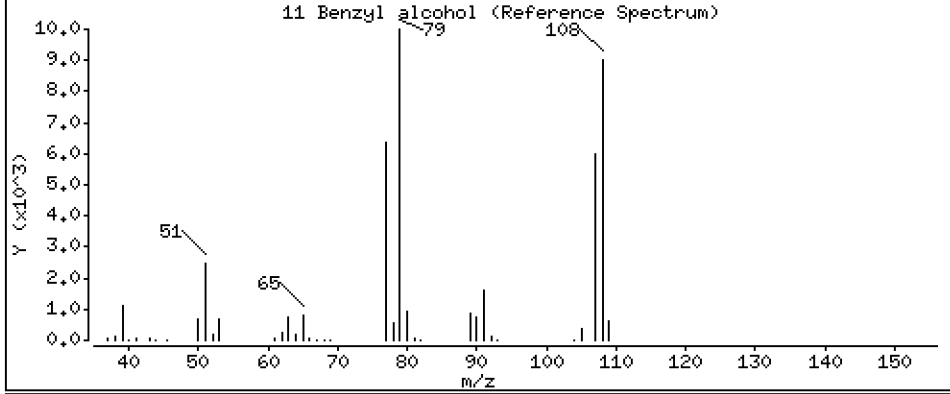
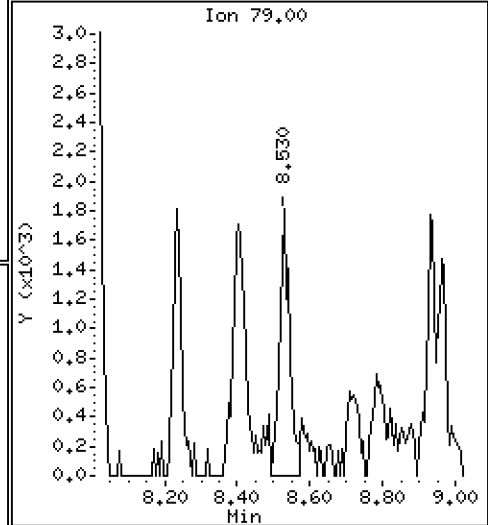
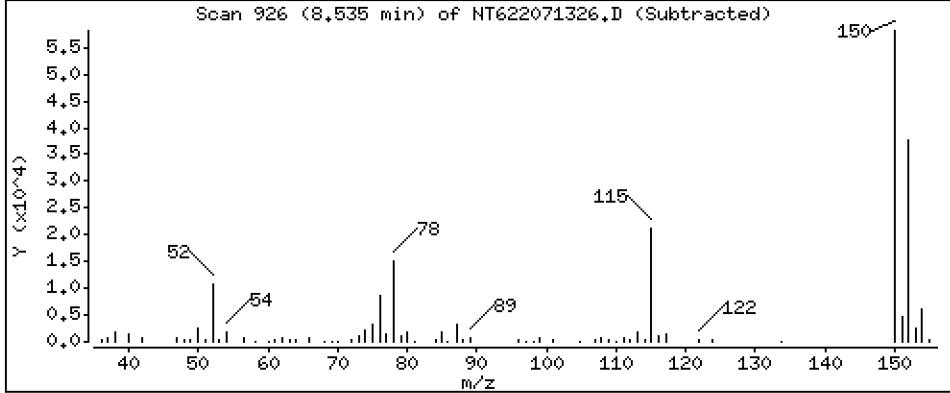
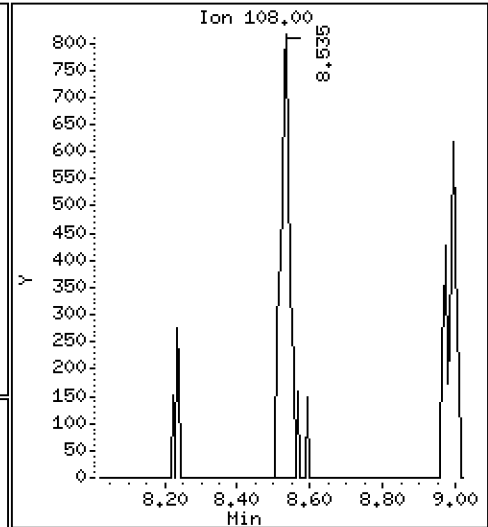
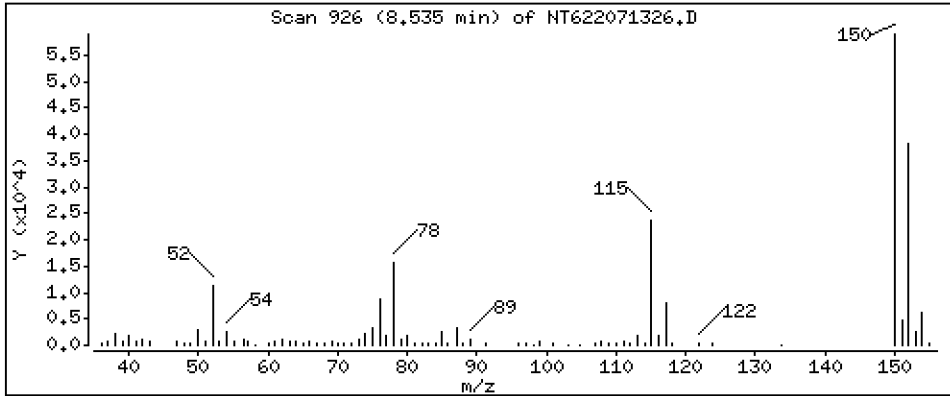
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

11 Benzyl alcohol

Concentration: 0.6753 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02

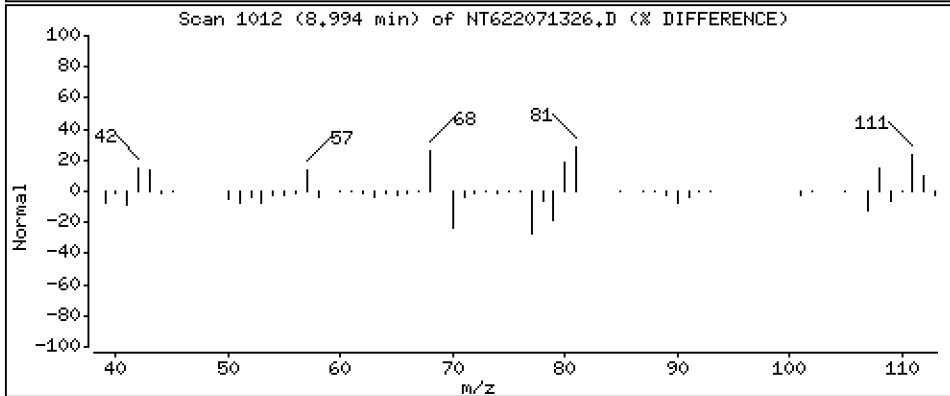
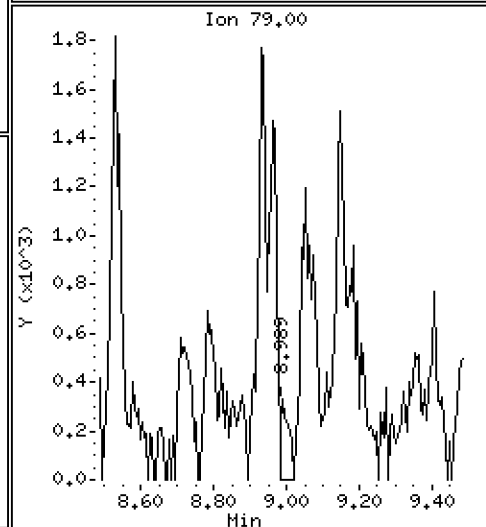
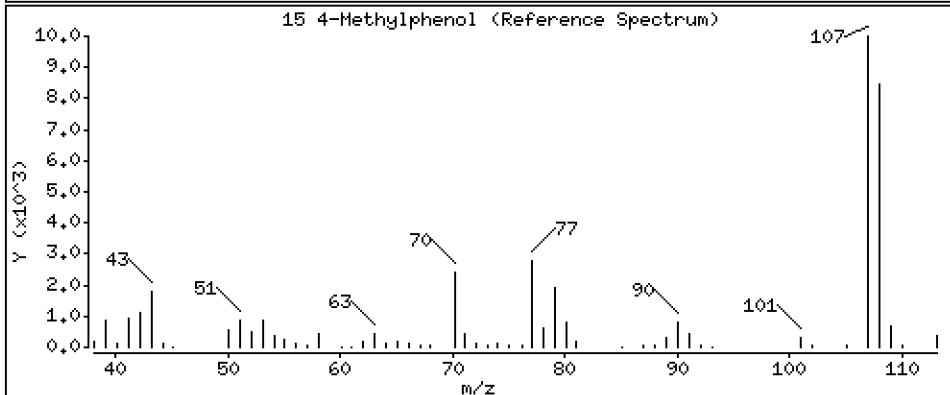
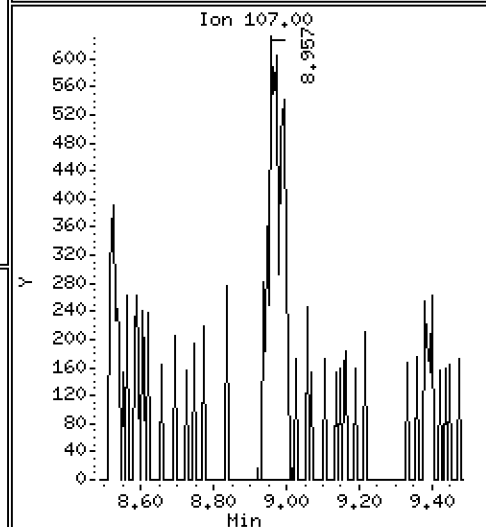
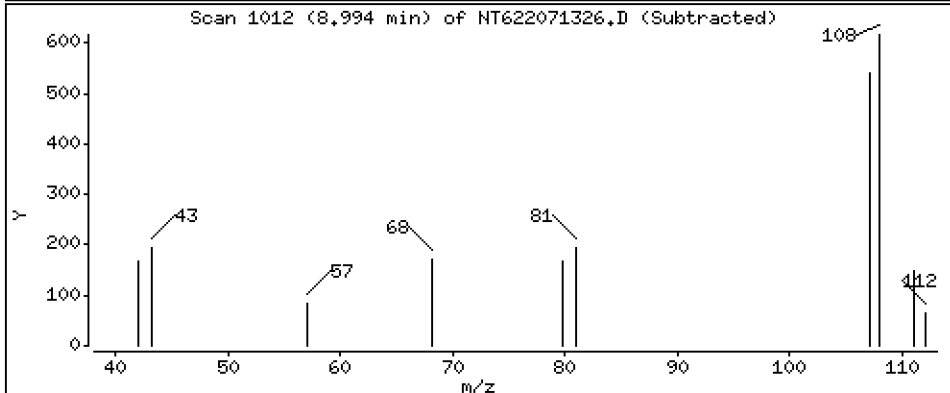
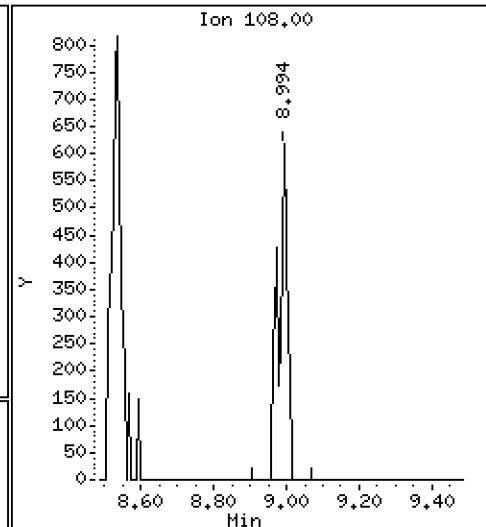
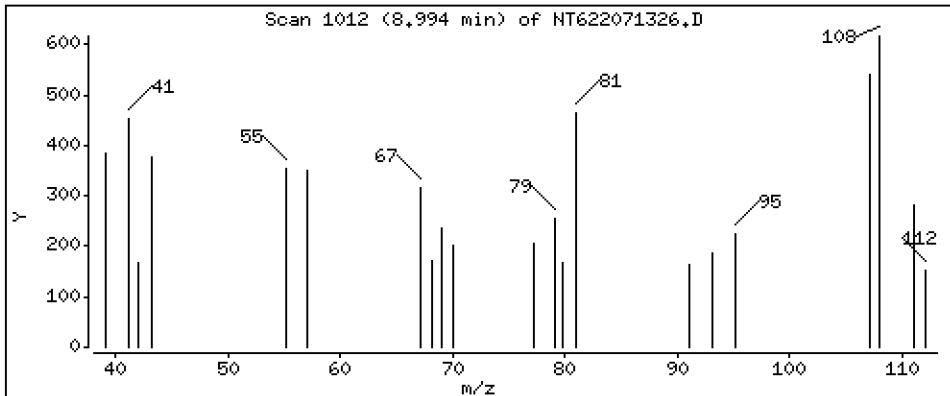
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

15 4-Methylphenol

Concentration: 0.3239 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02

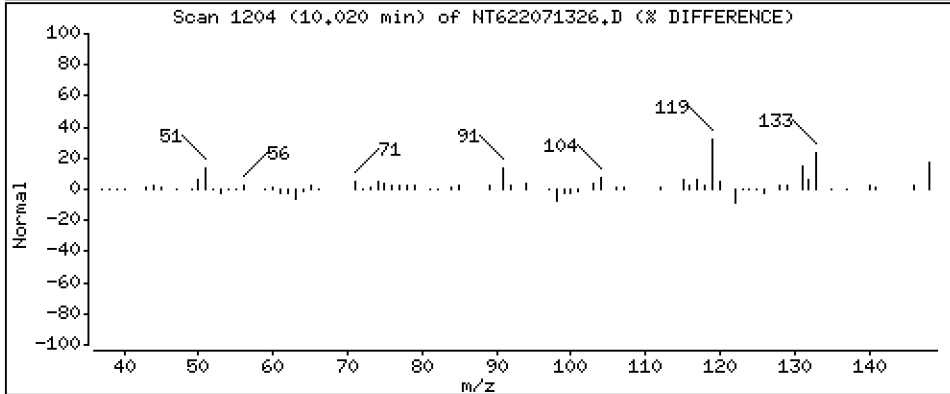
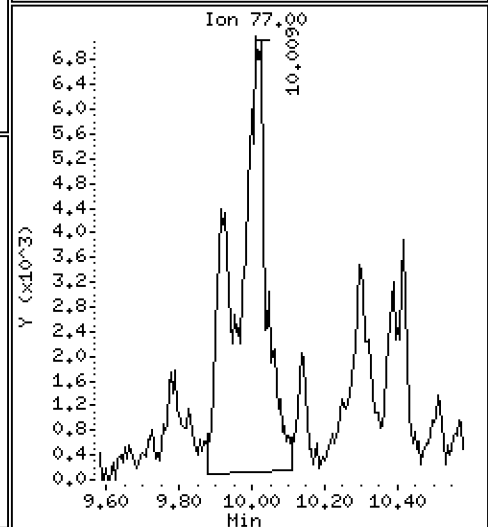
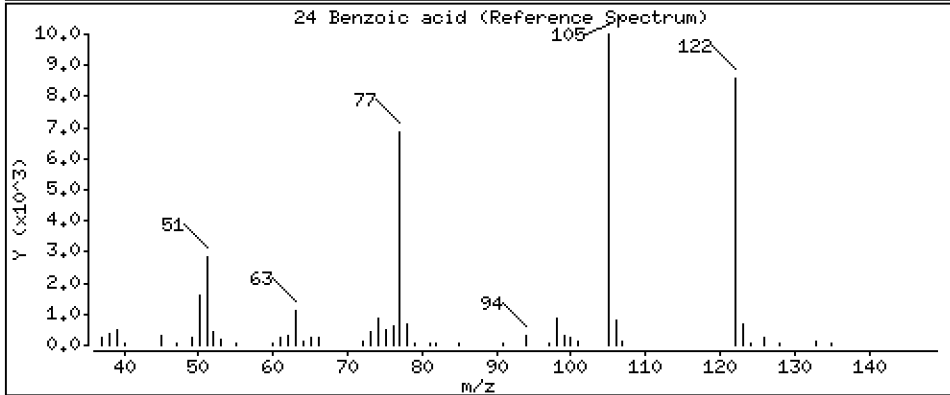
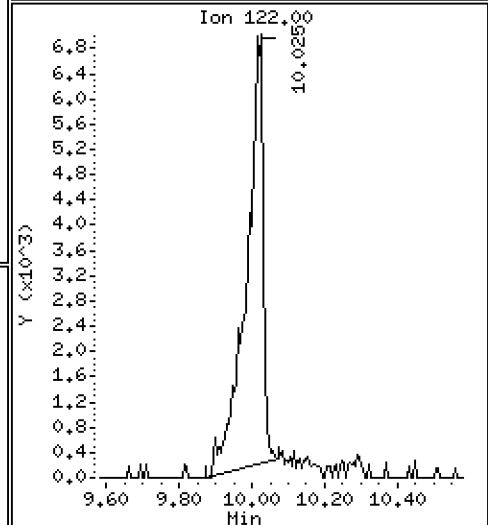
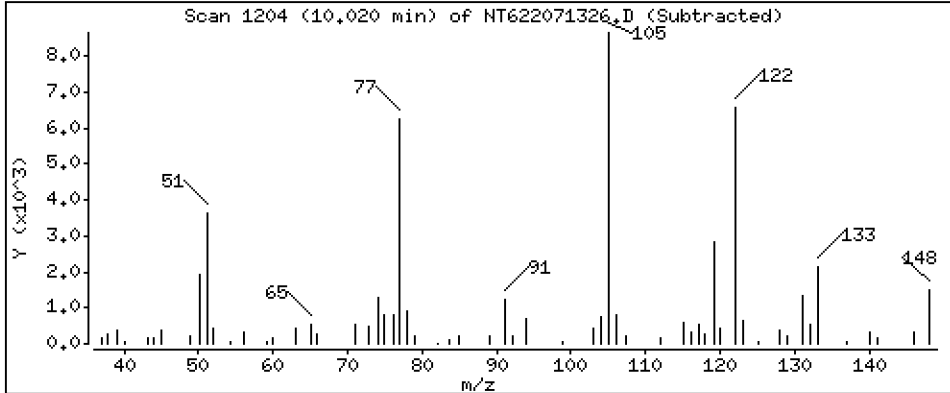
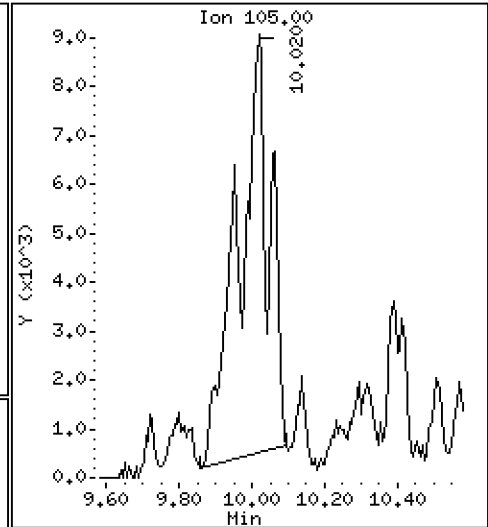
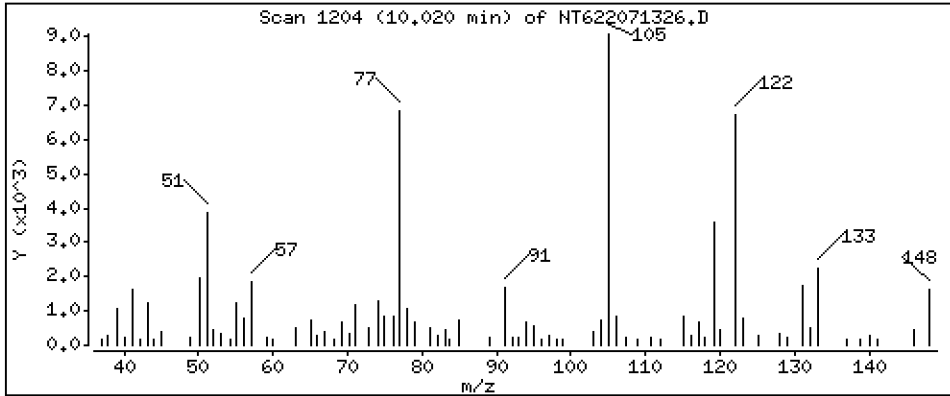
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

24 Benzoic acid

Concentration: 20.64 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02

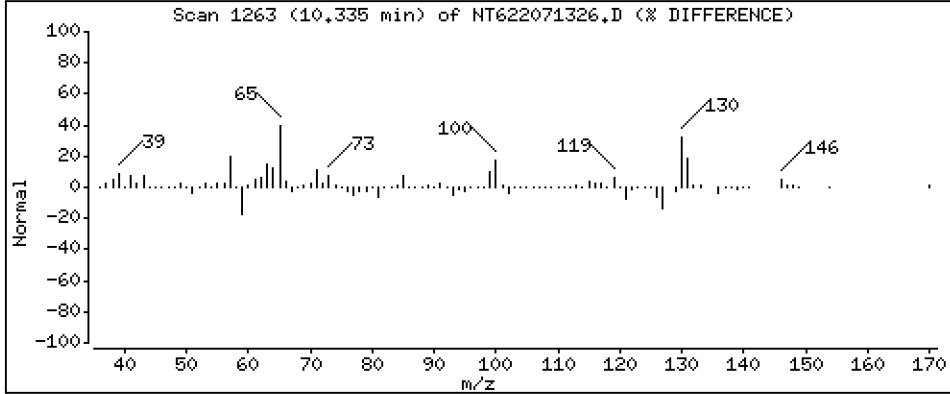
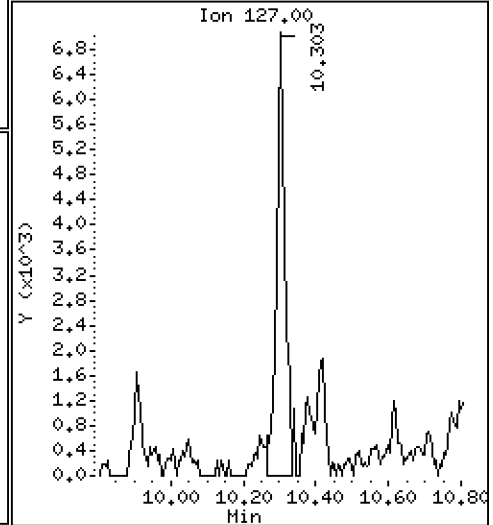
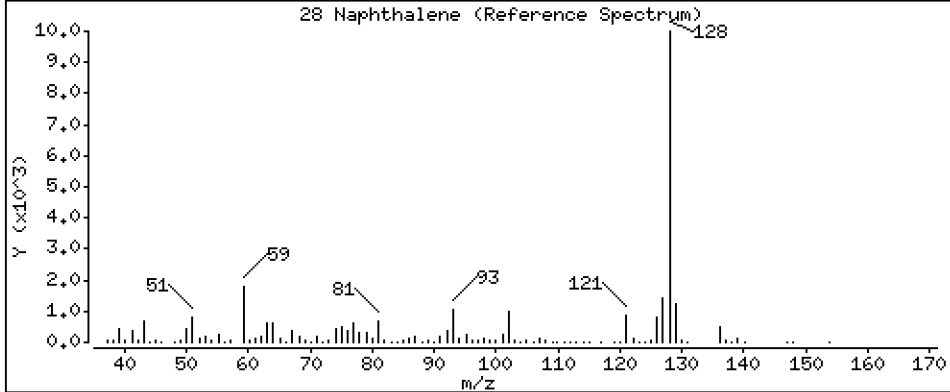
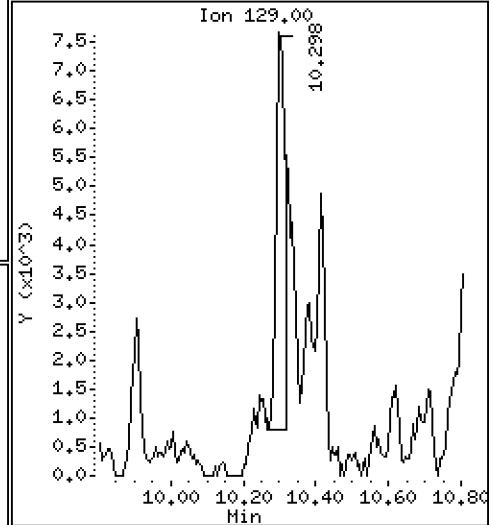
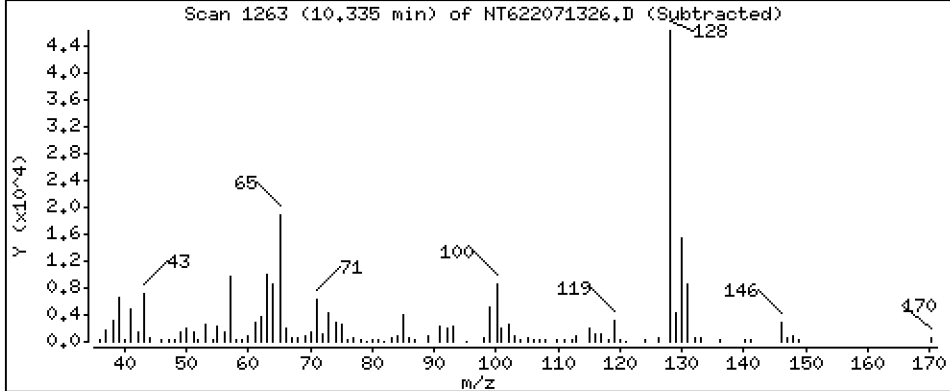
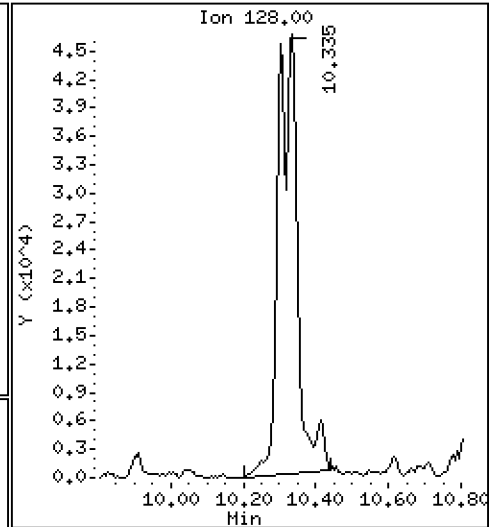
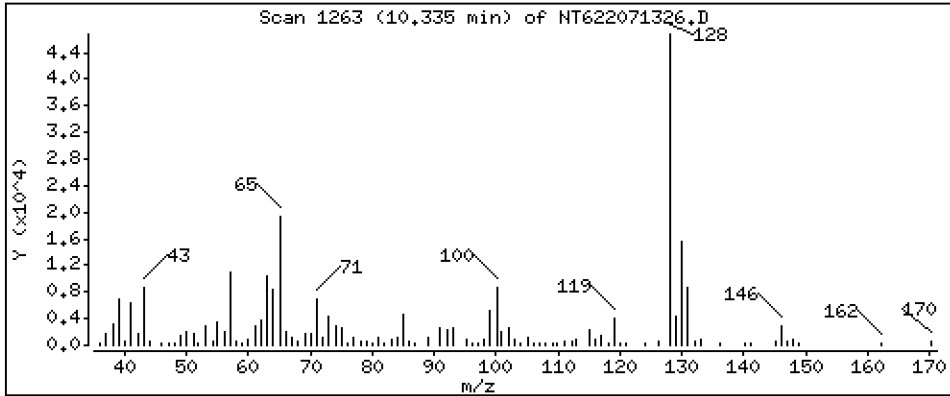
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

28 Naphthalene

Concentration: 18.19 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02

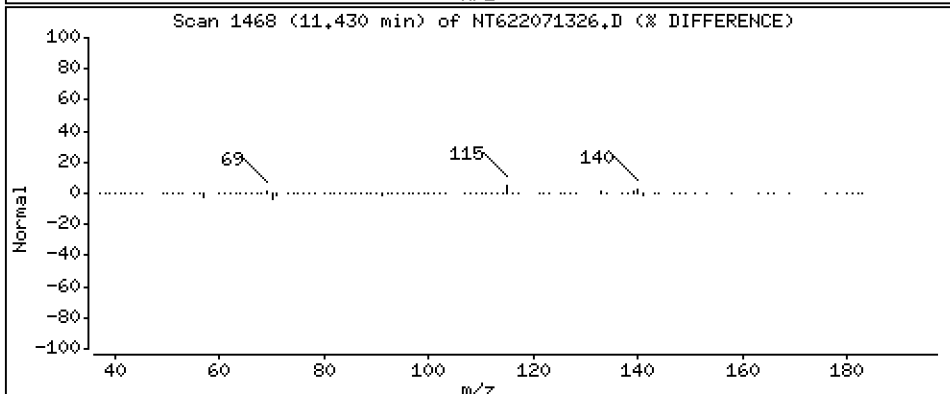
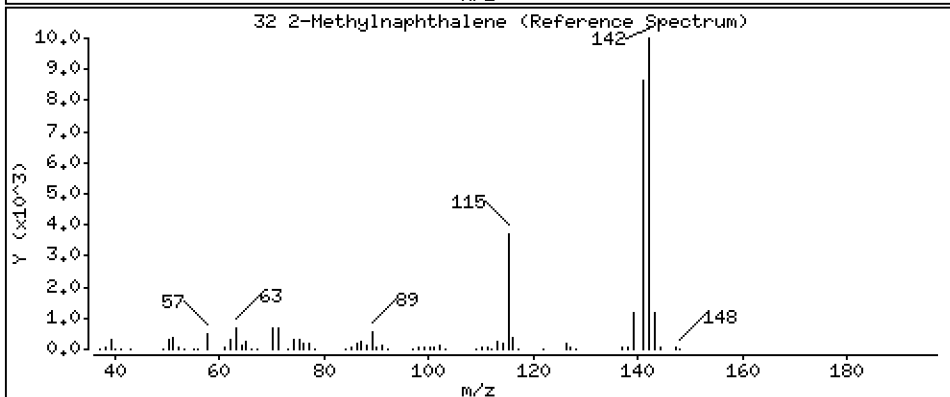
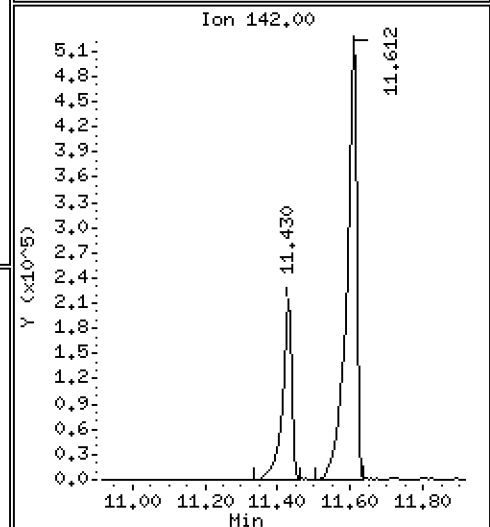
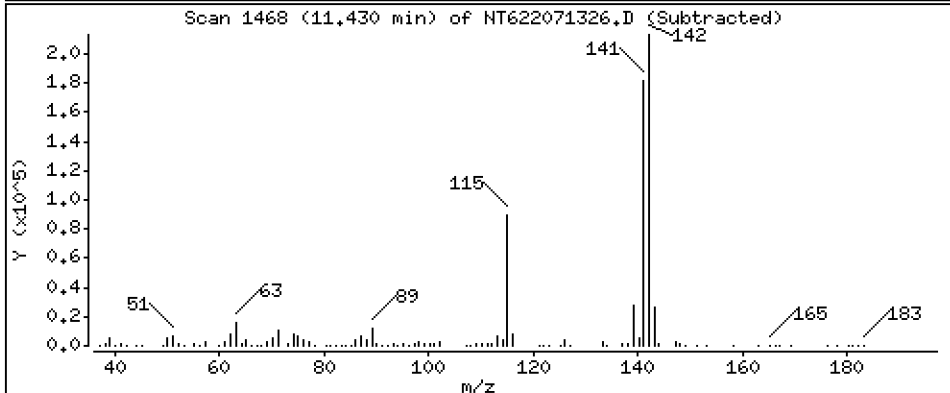
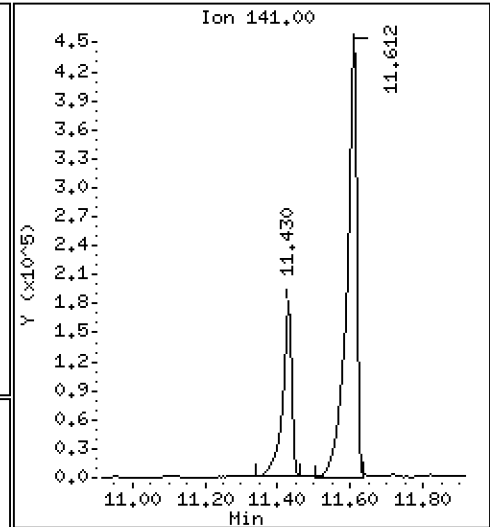
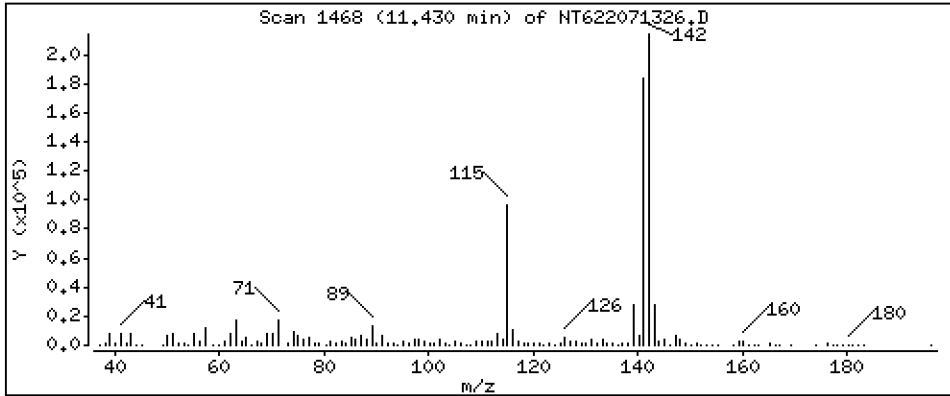
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

32 2-Methylnaphthalene

Concentration: 57.79 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02

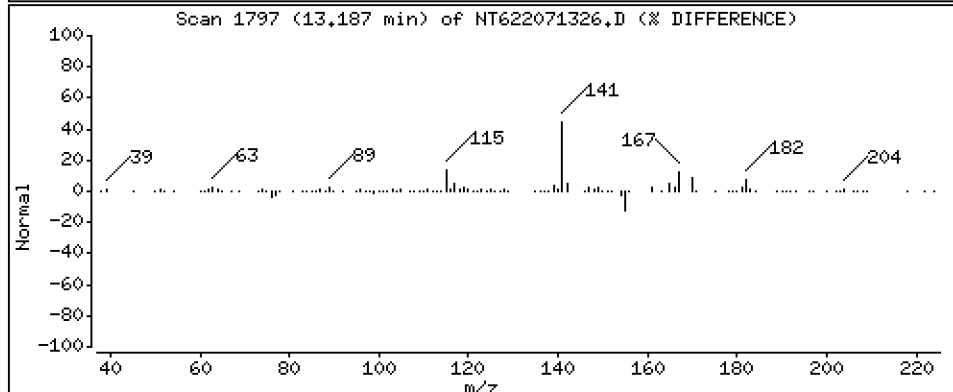
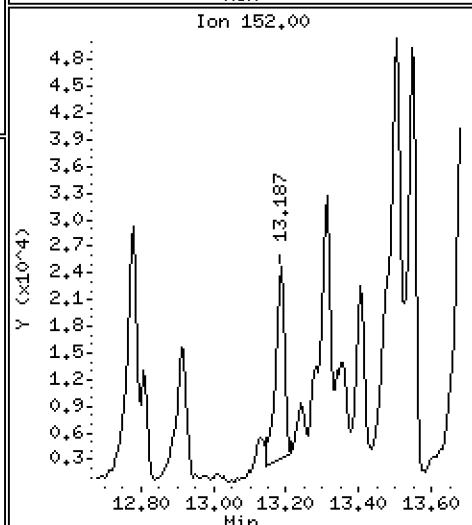
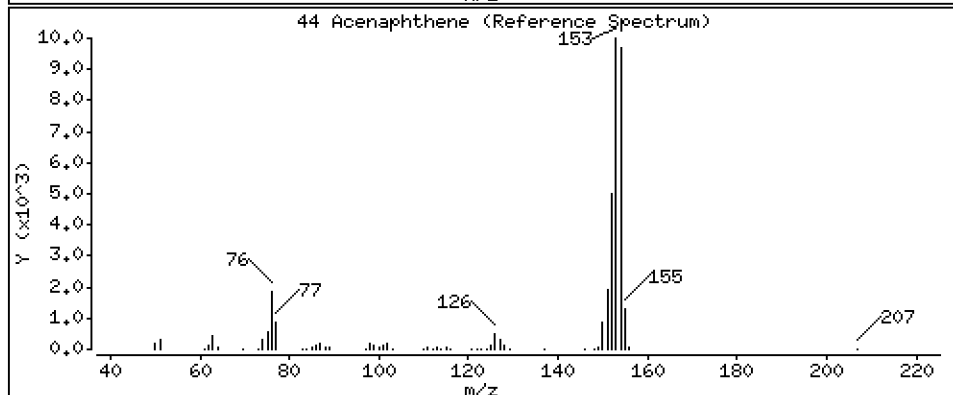
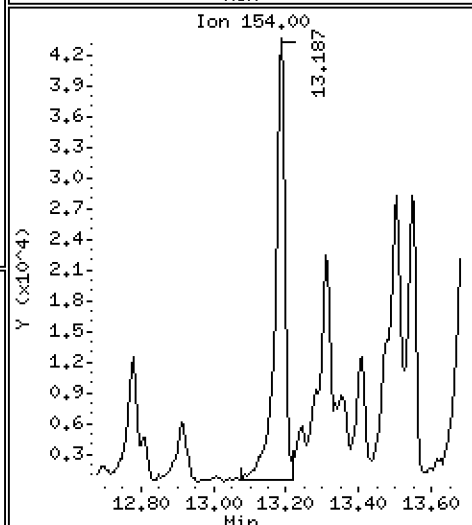
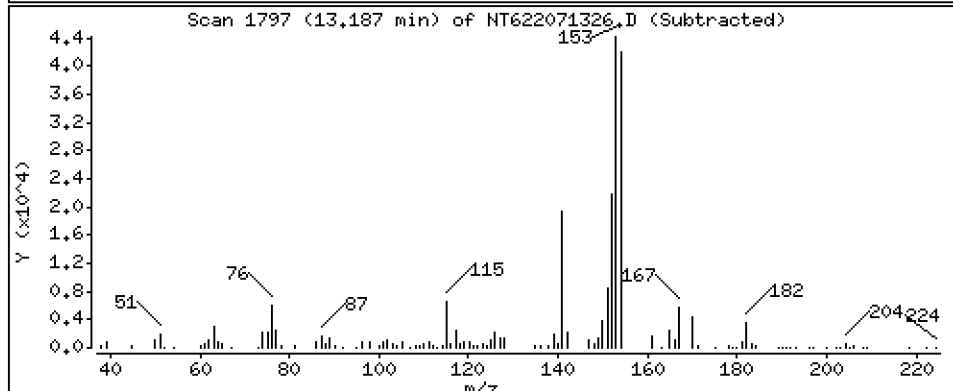
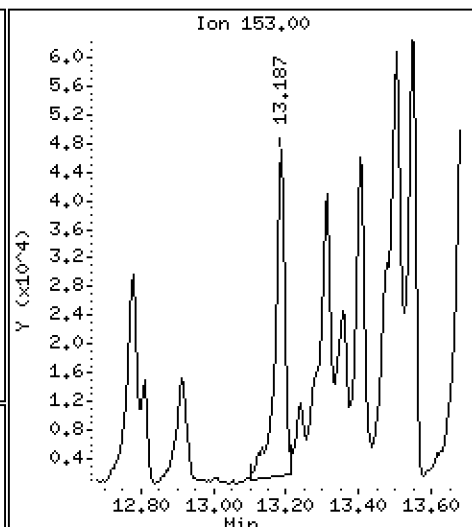
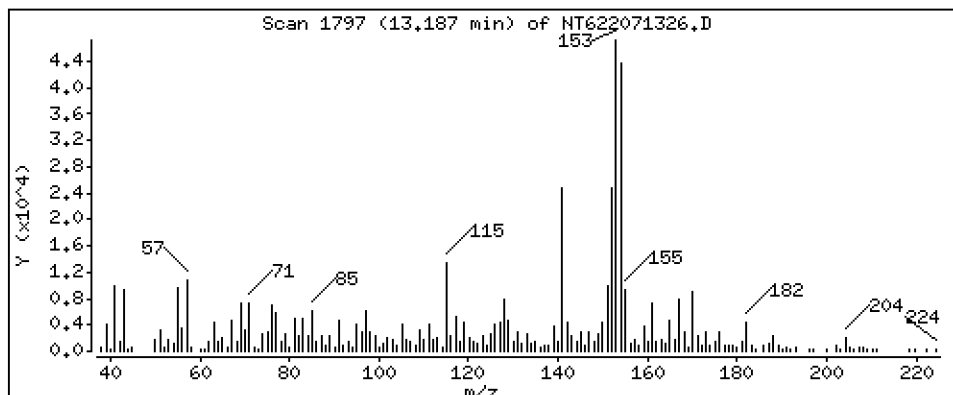
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

44 Acenaphthene

Concentration: 14.30 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02

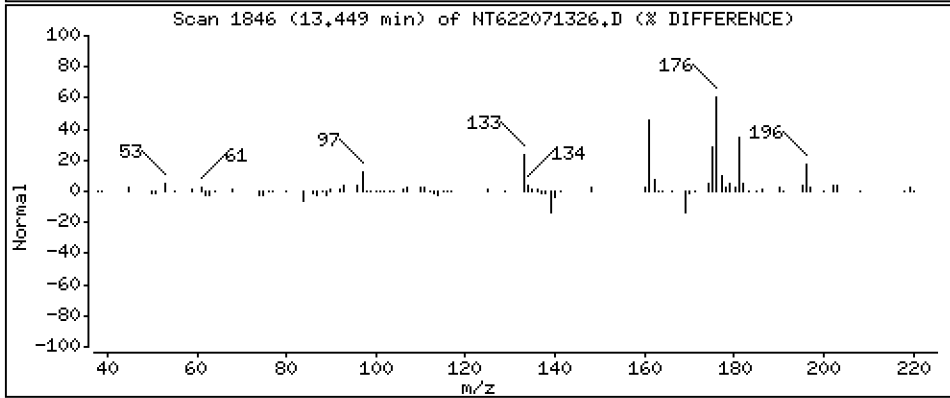
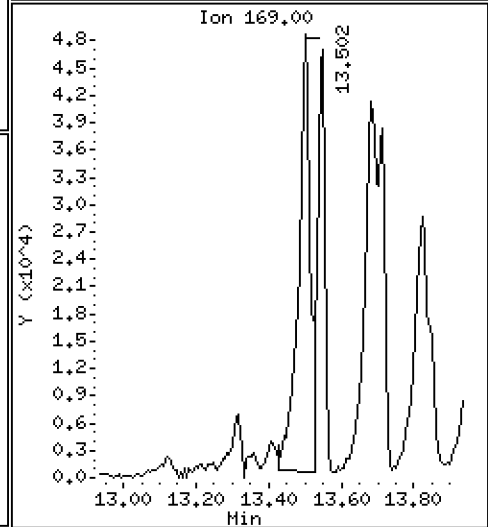
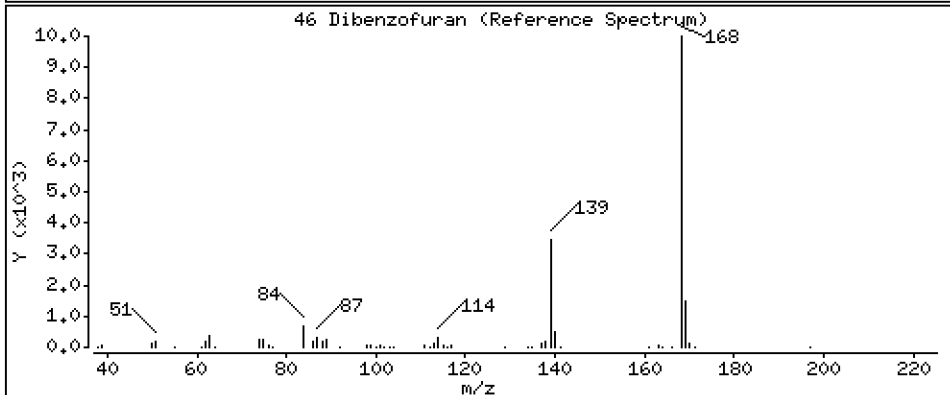
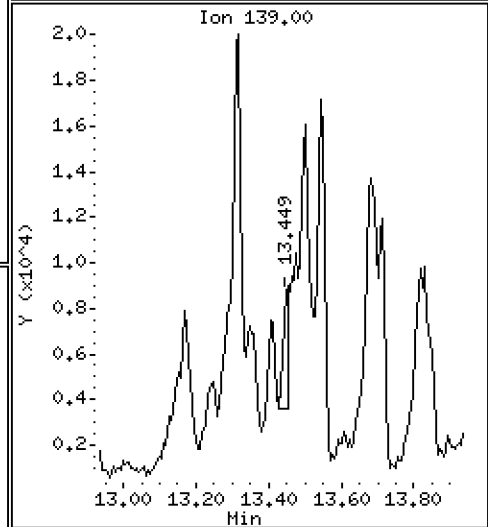
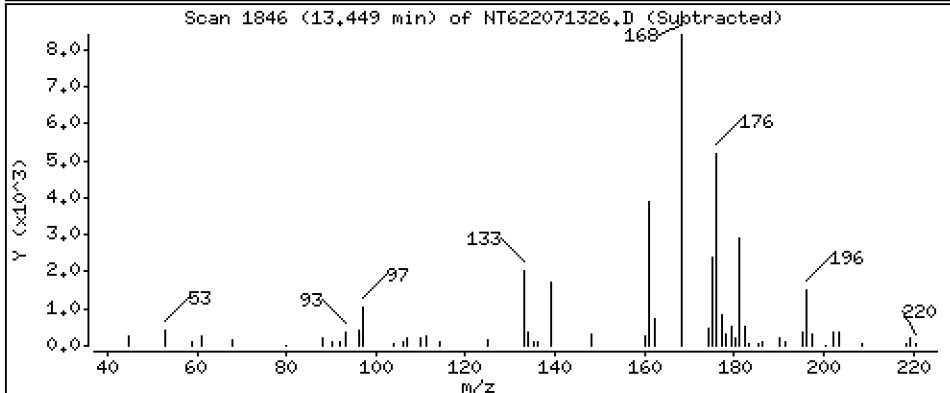
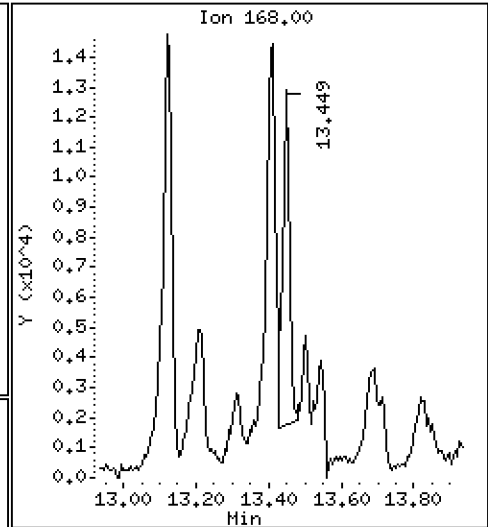
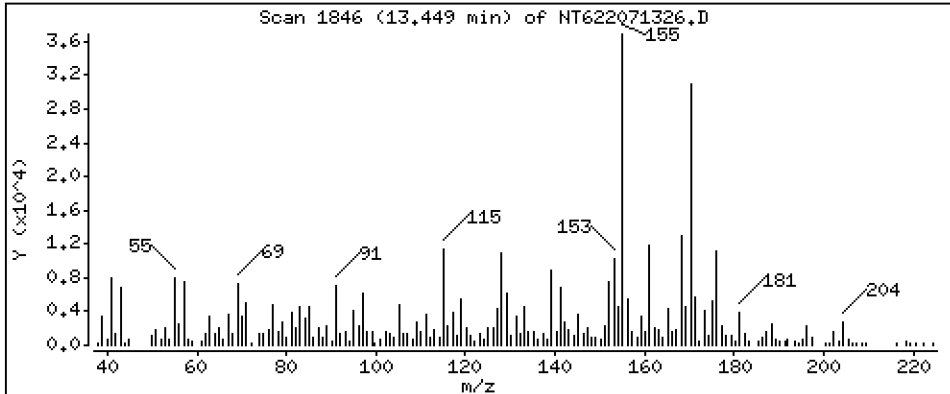
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

46 Dibenzofuran

Concentration: 1.753 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02

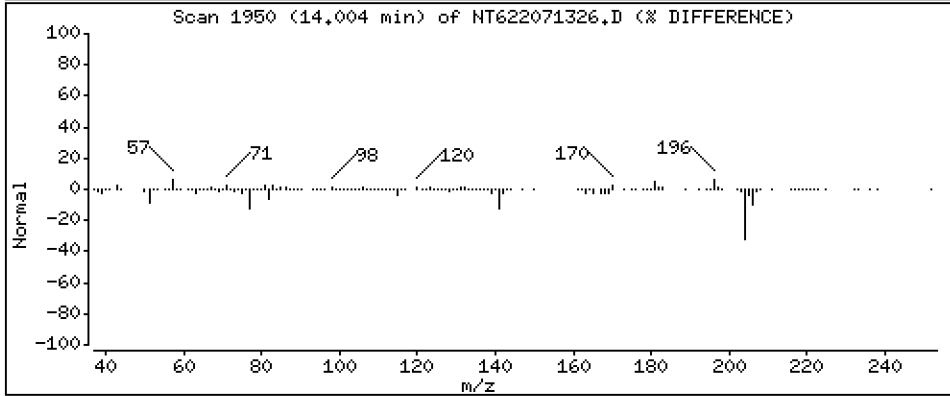
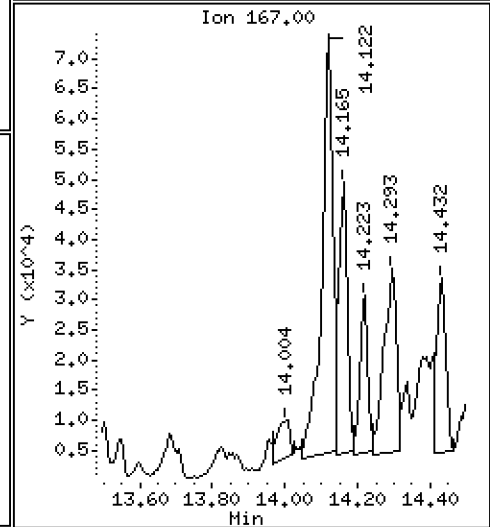
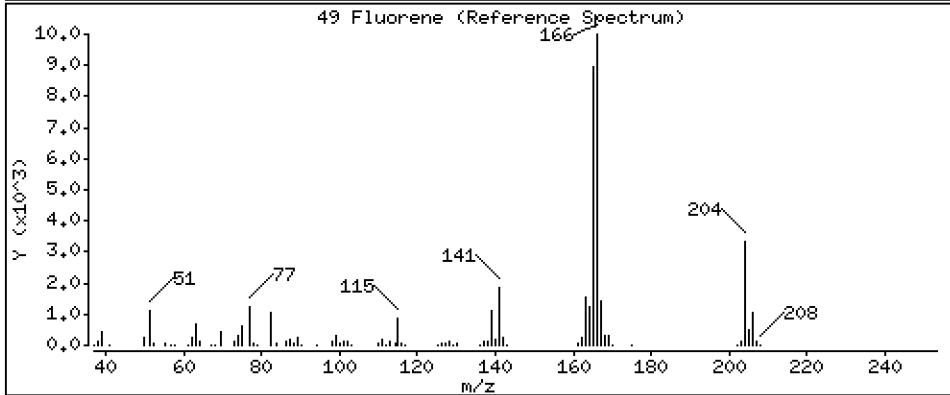
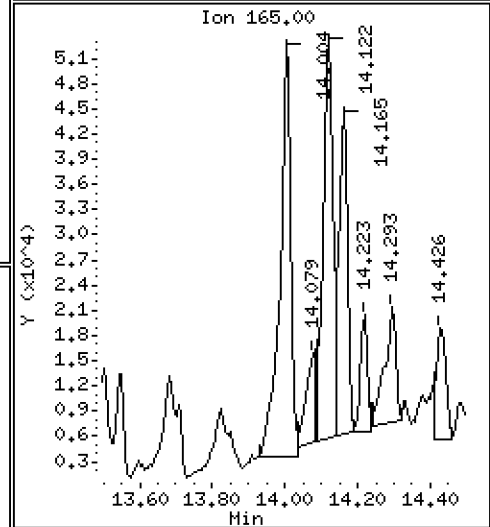
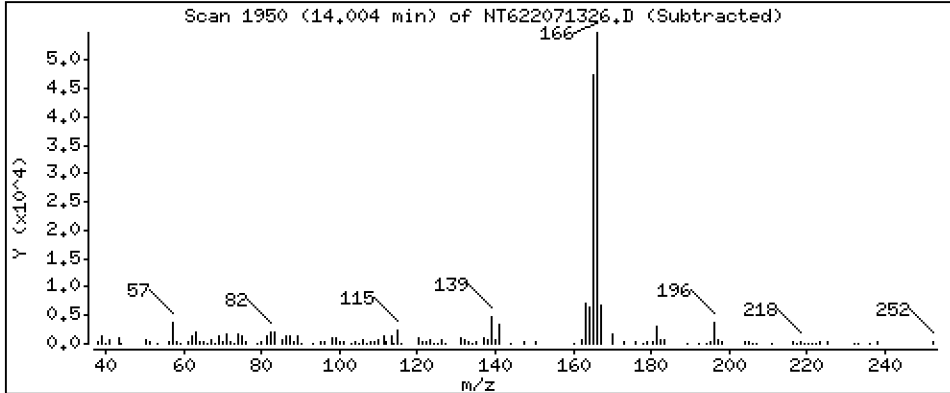
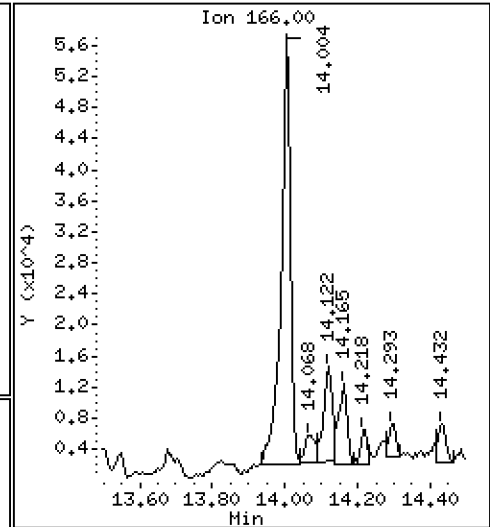
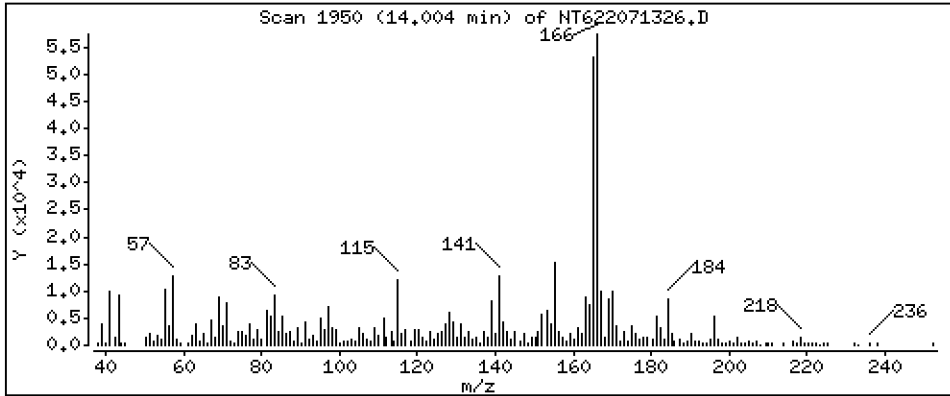
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

49 Fluorene

Concentration: 14.36 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02

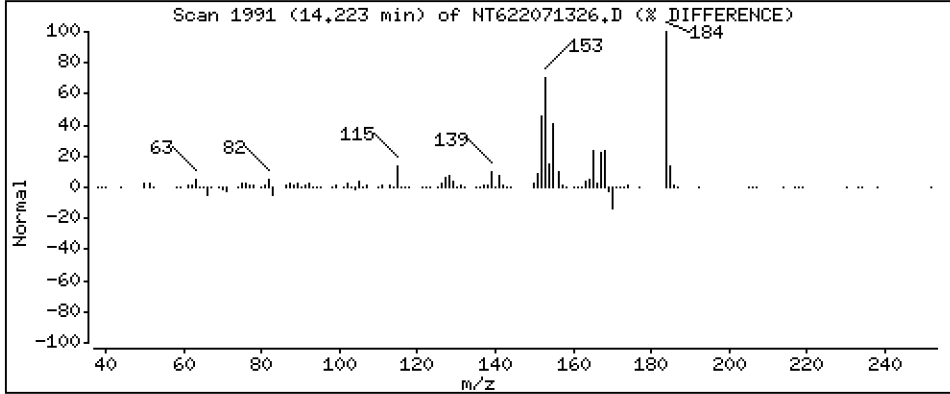
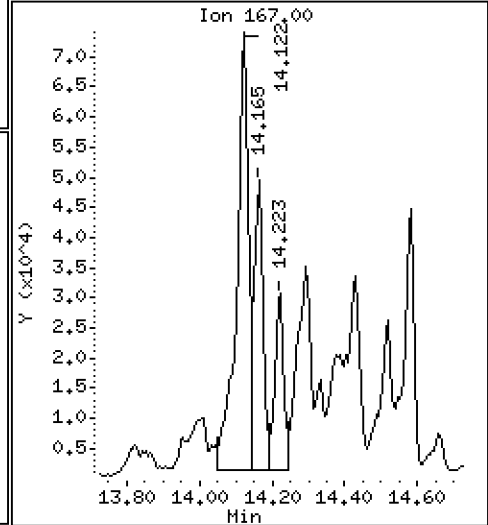
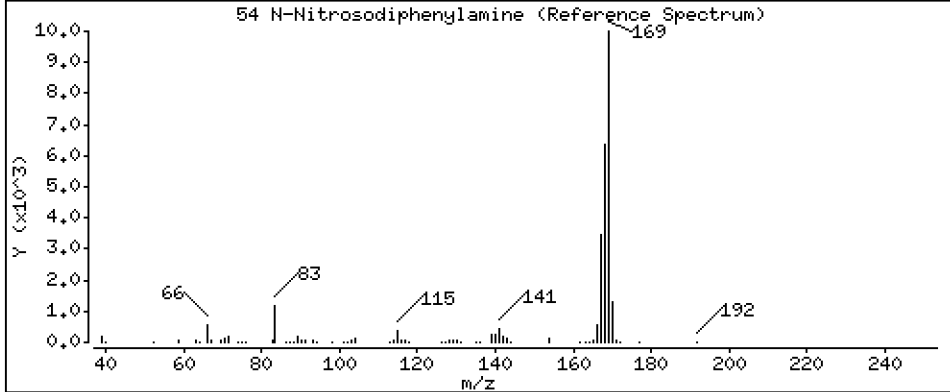
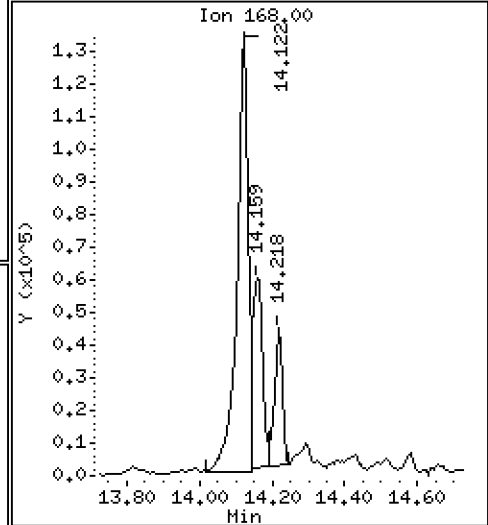
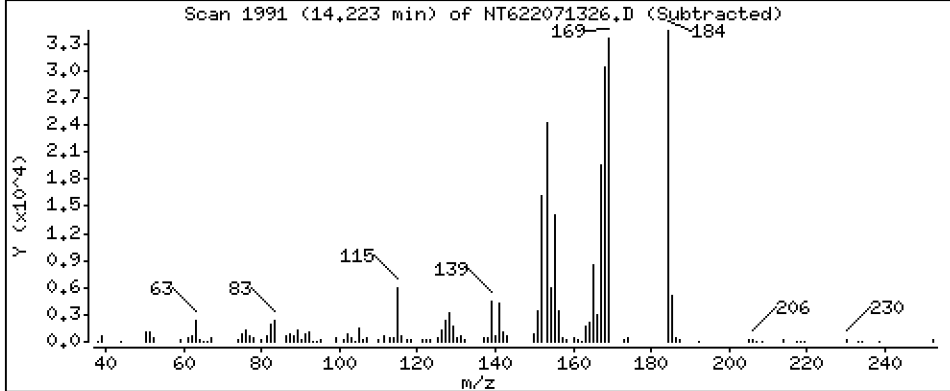
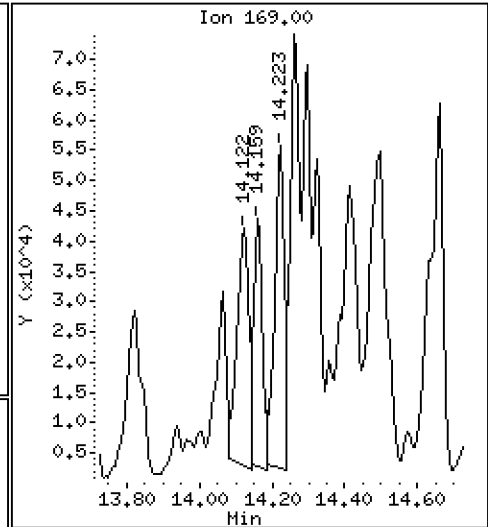
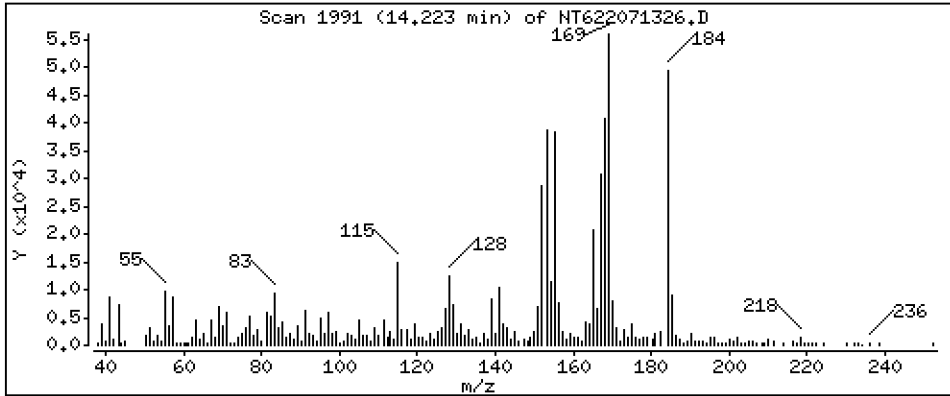
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

54 N-Nitrosodiphenylamine

Concentration: 17.63 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02

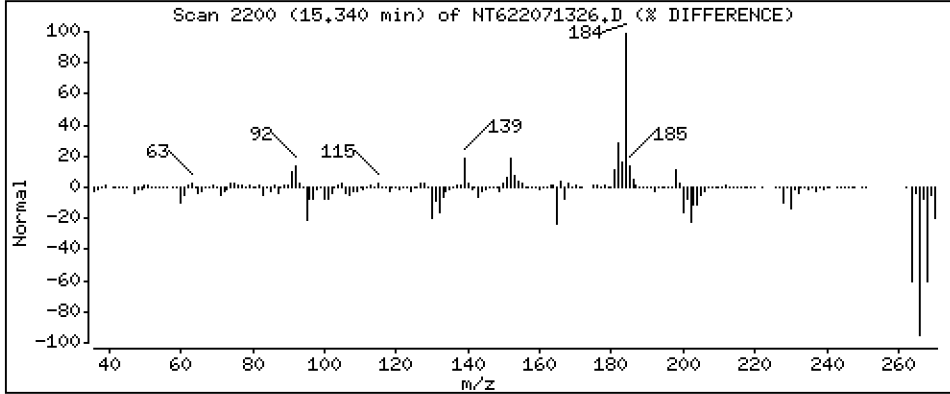
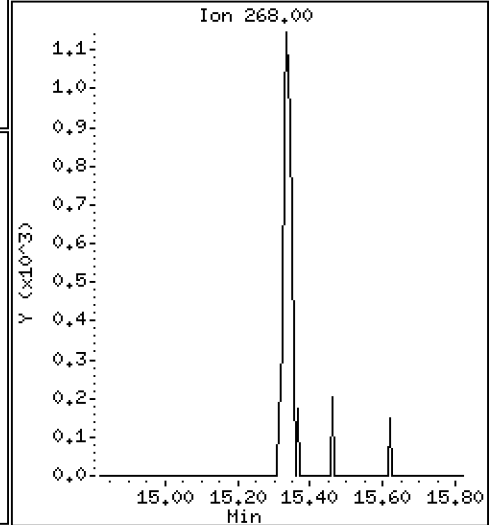
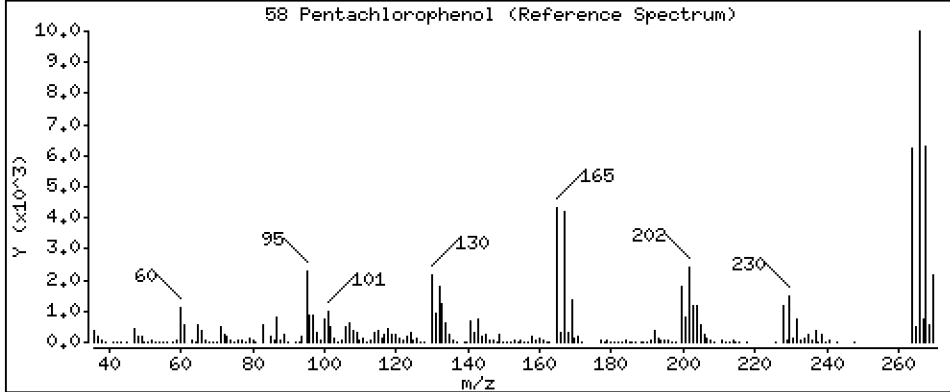
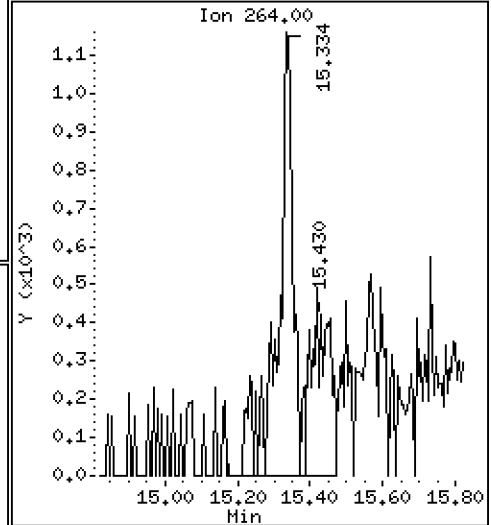
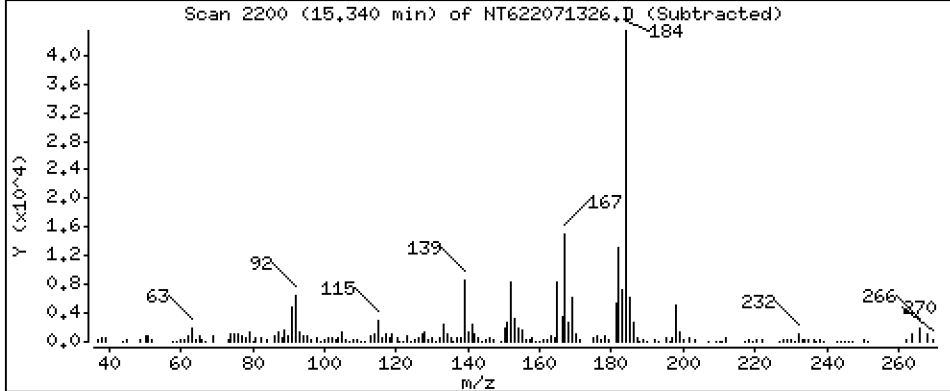
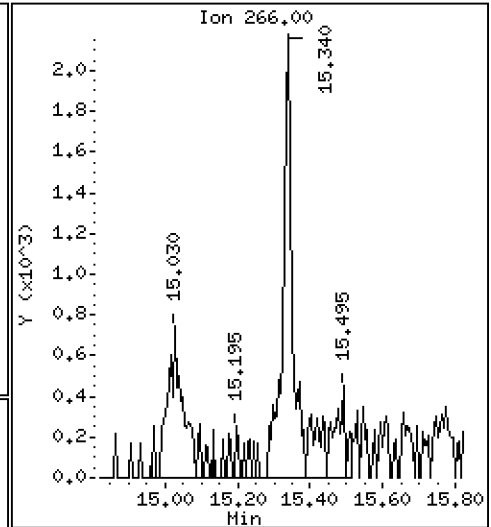
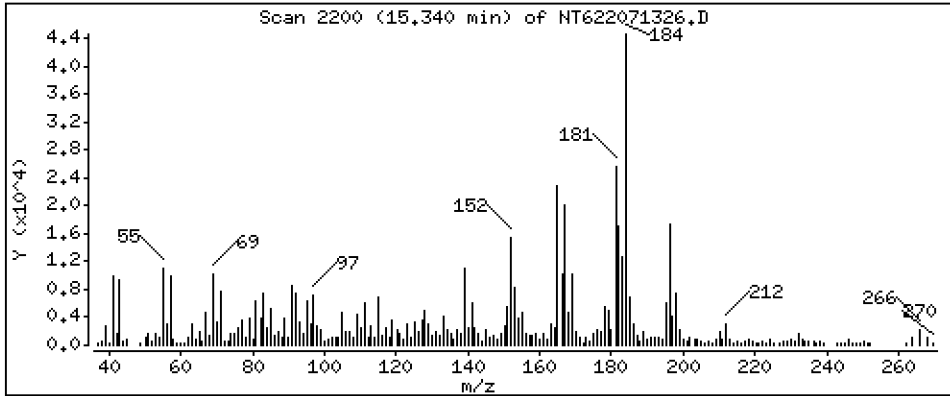
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

58 Pentachlorophenol

Concentration: 2,209 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02

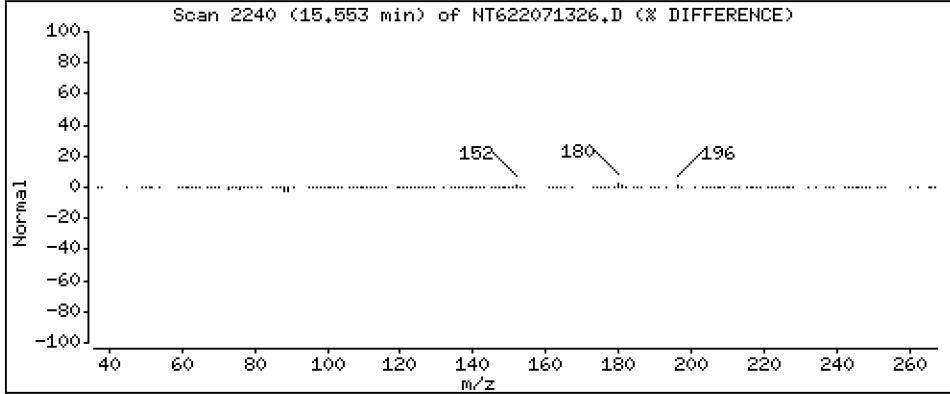
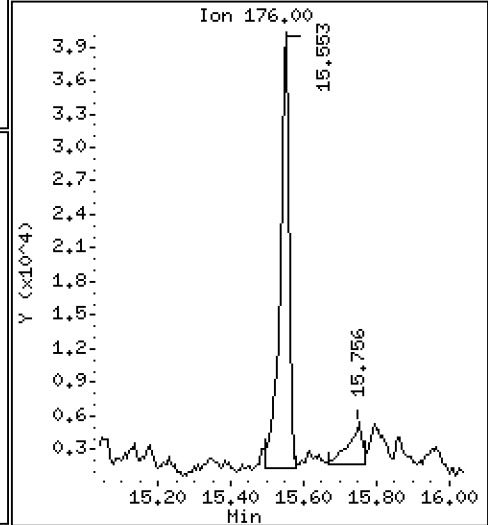
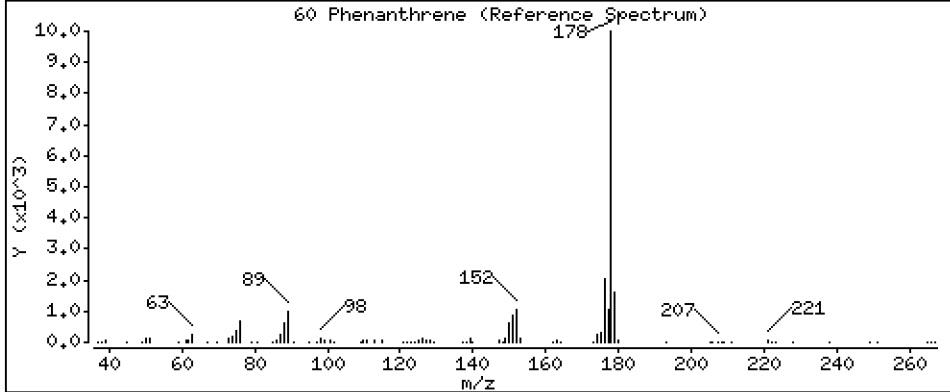
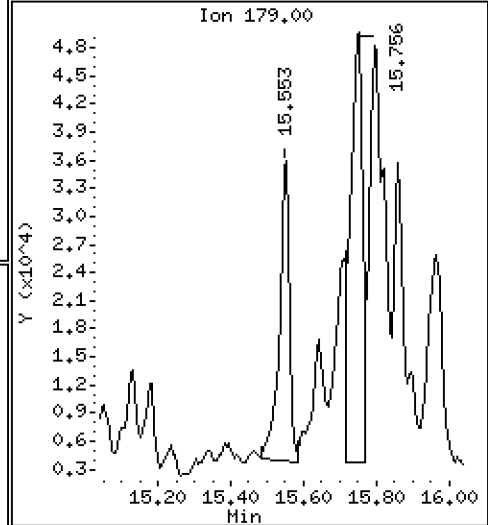
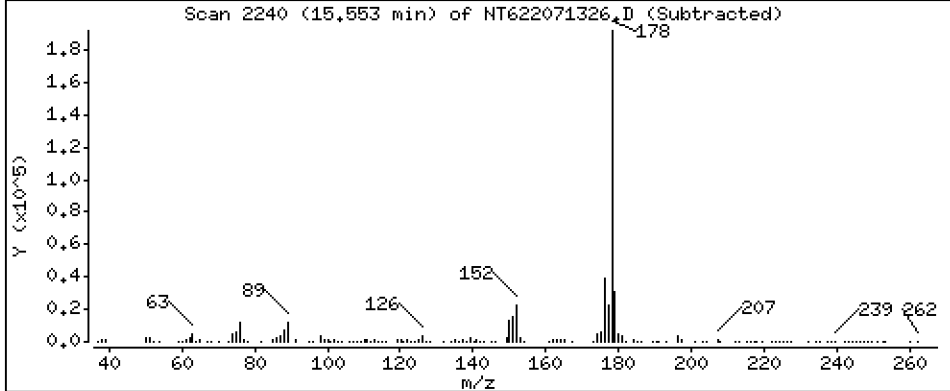
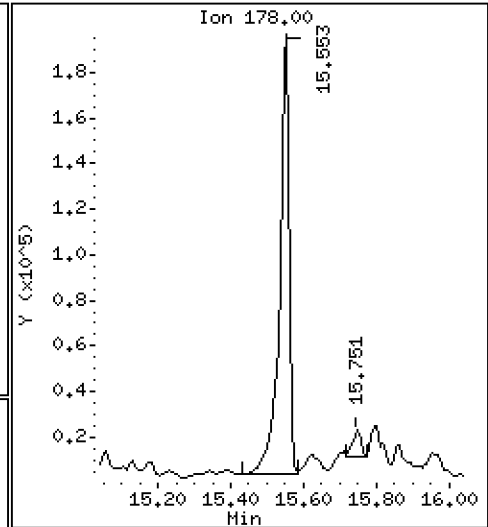
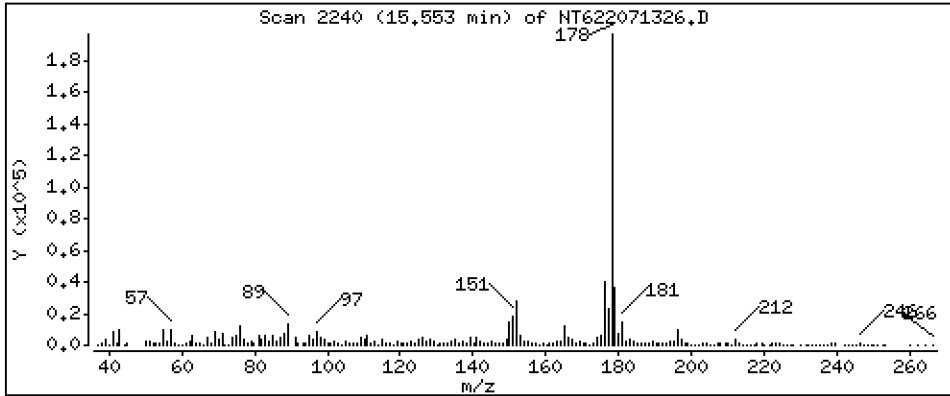
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

60 Phenanthrene

Concentration: 32.14 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02

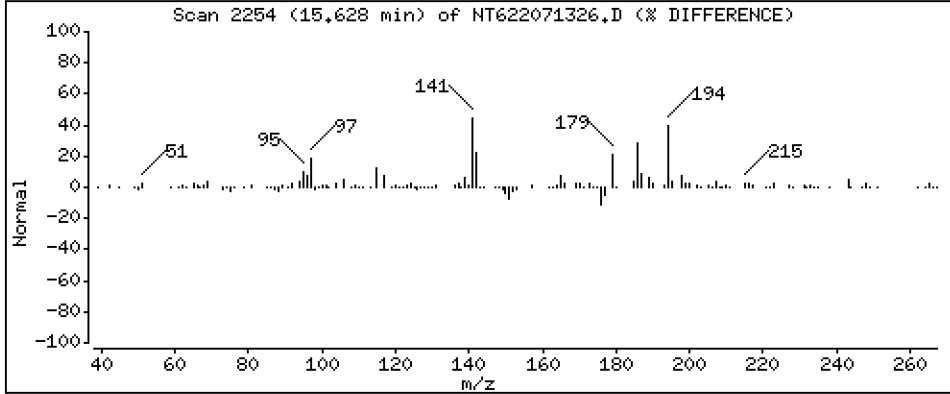
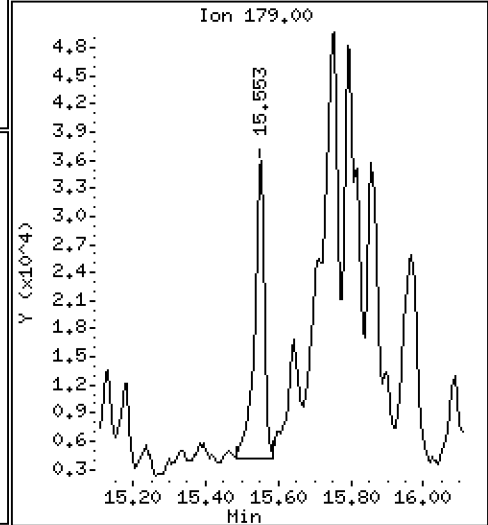
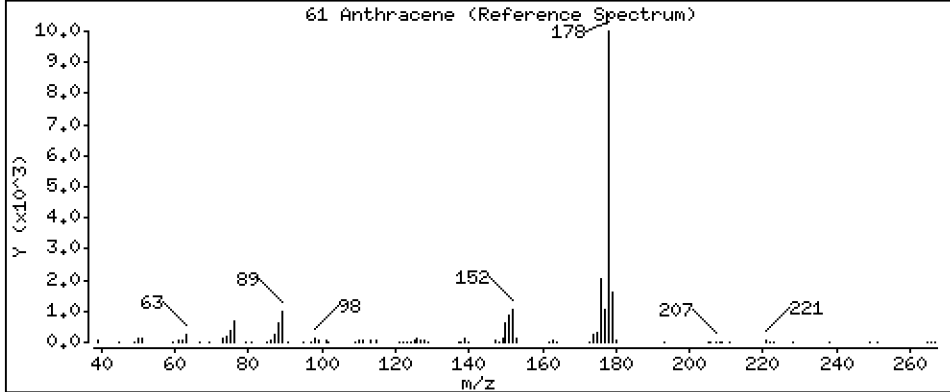
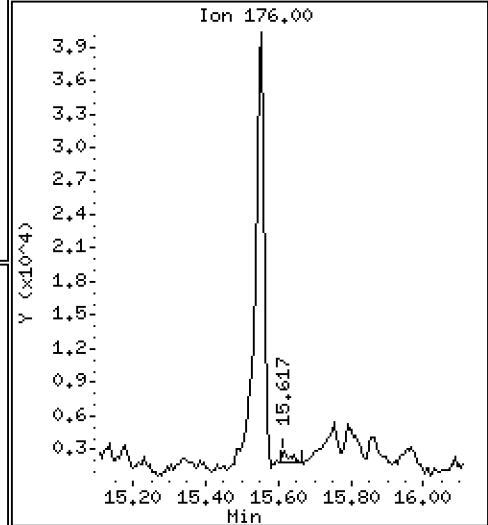
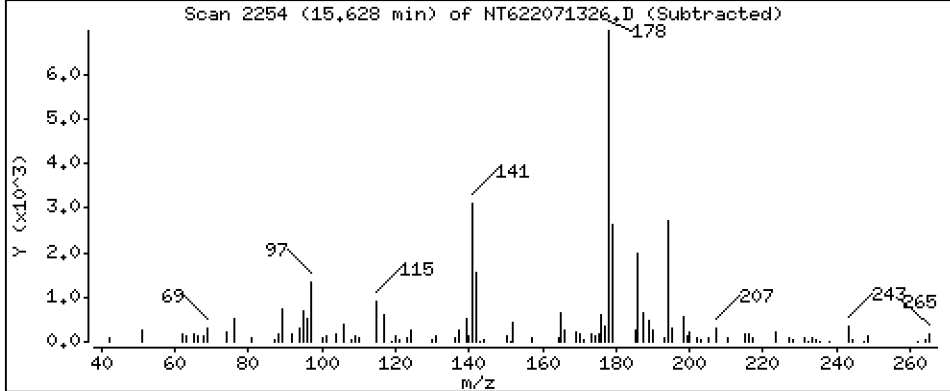
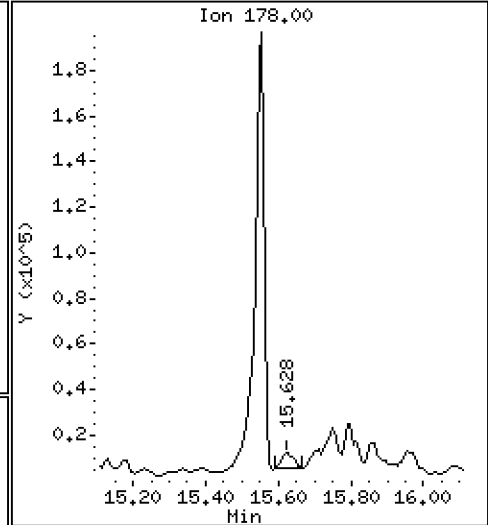
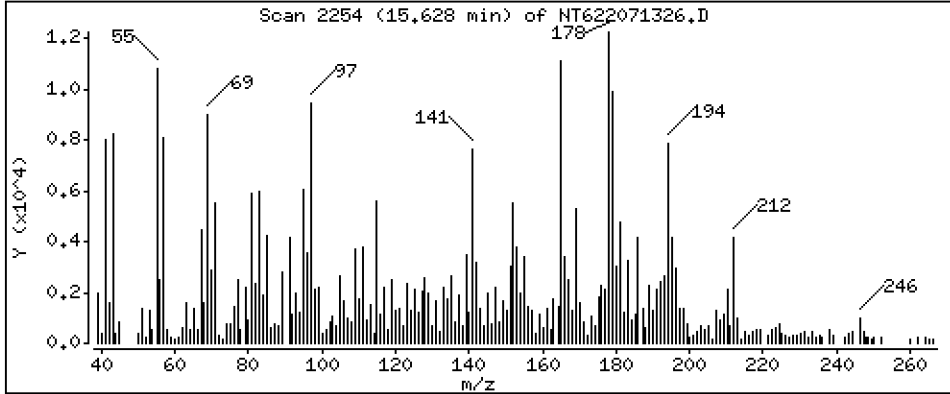
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

61 Anthracene

Concentration: 1.324 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02

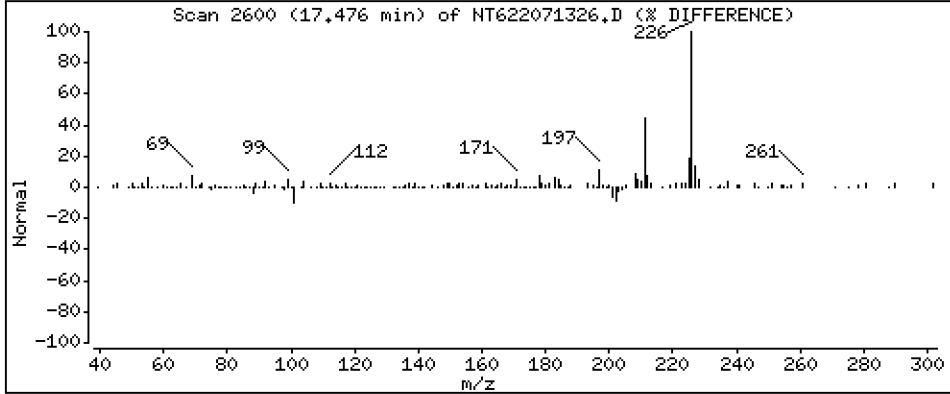
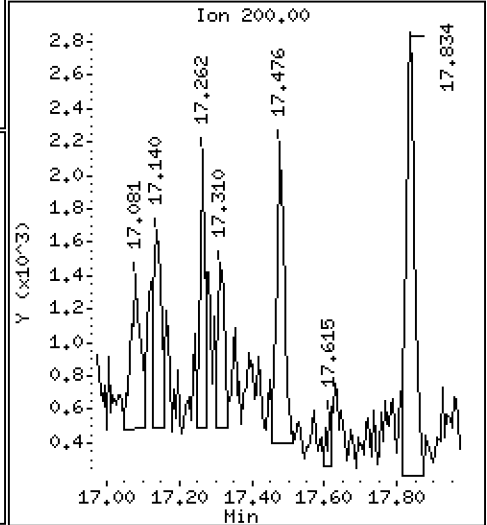
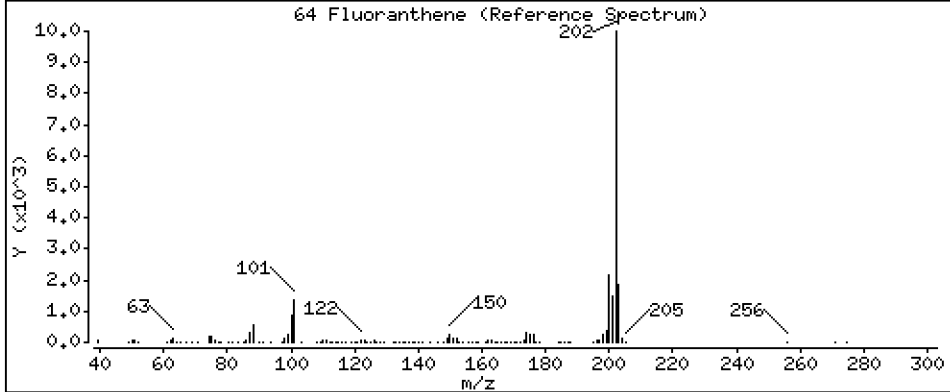
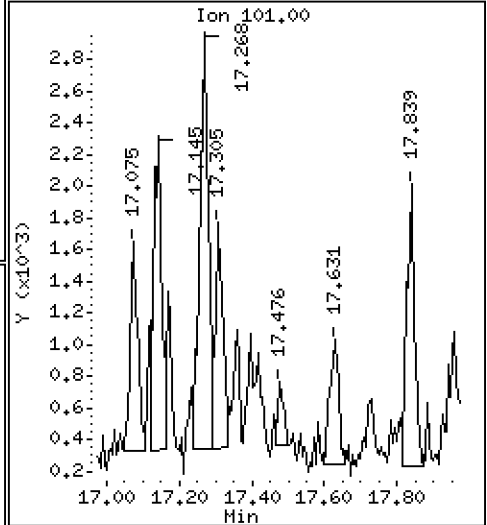
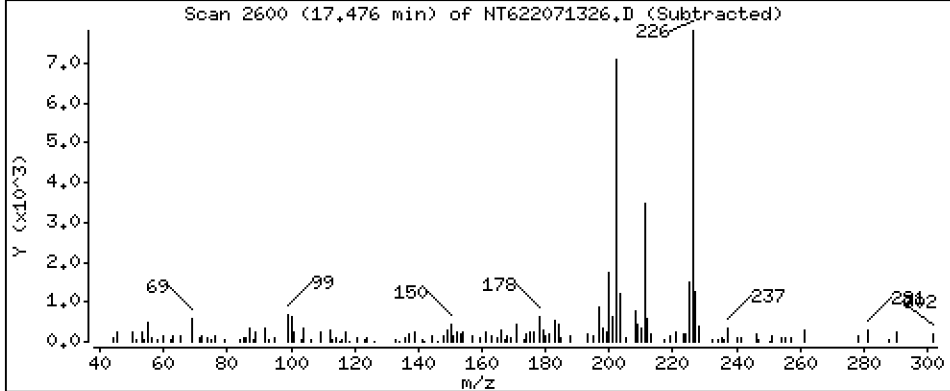
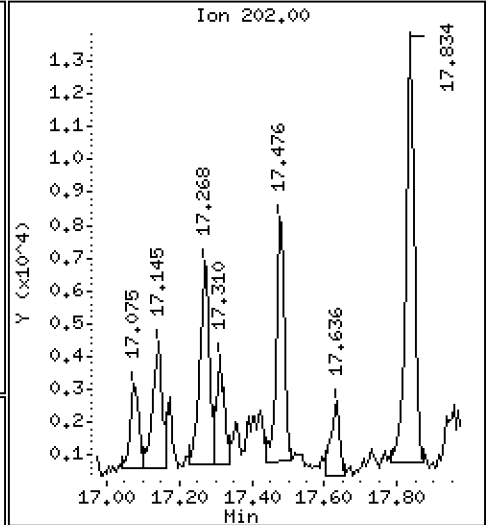
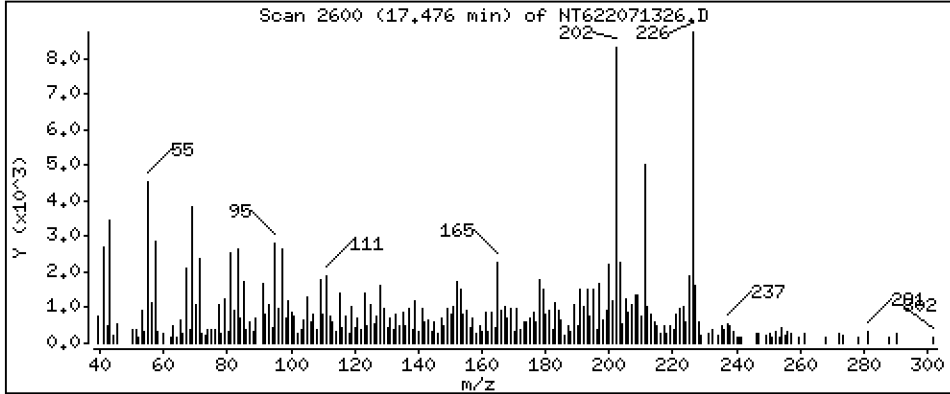
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

64 Fluoranthene

Concentration: 0.9430 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02

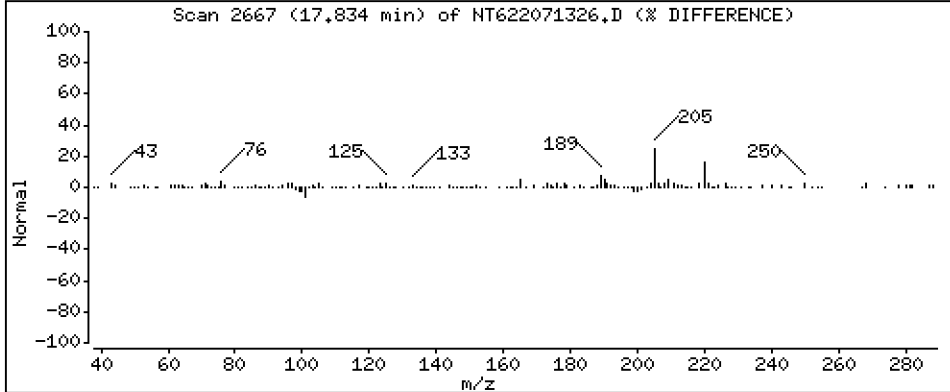
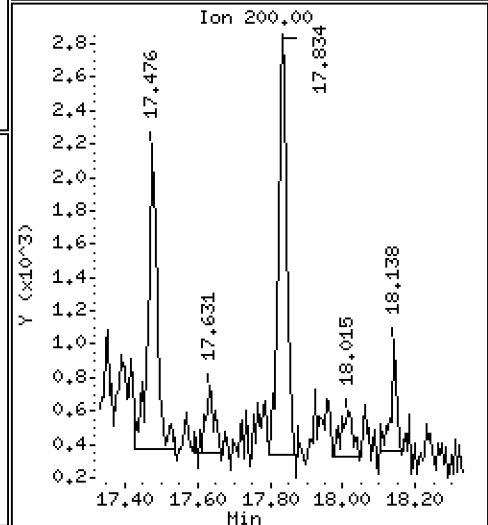
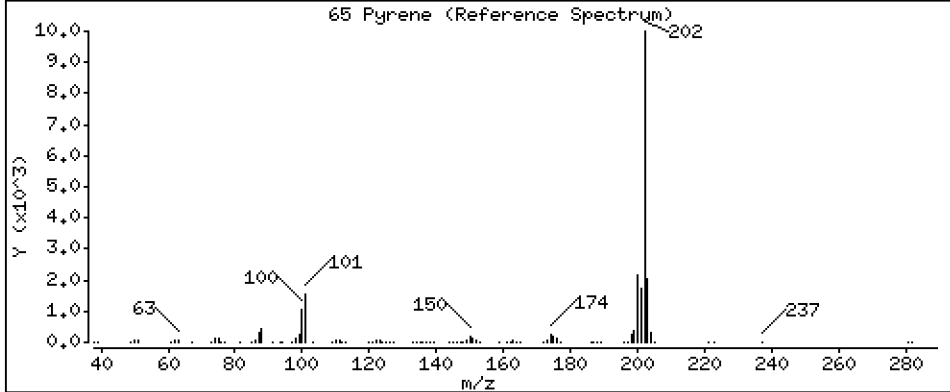
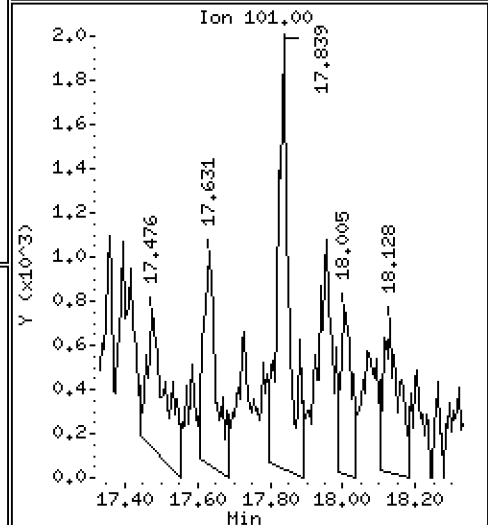
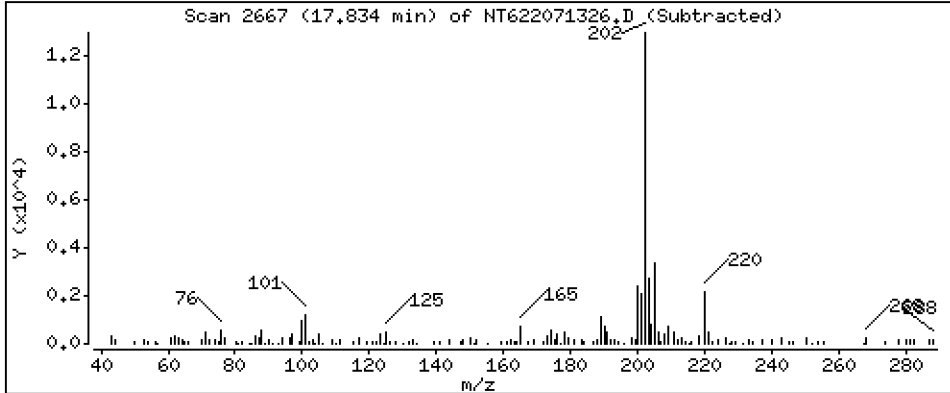
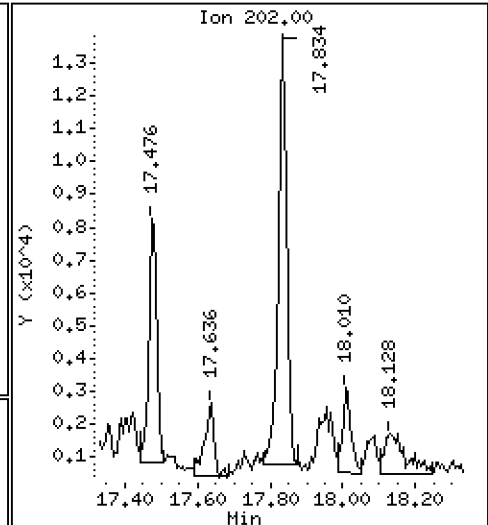
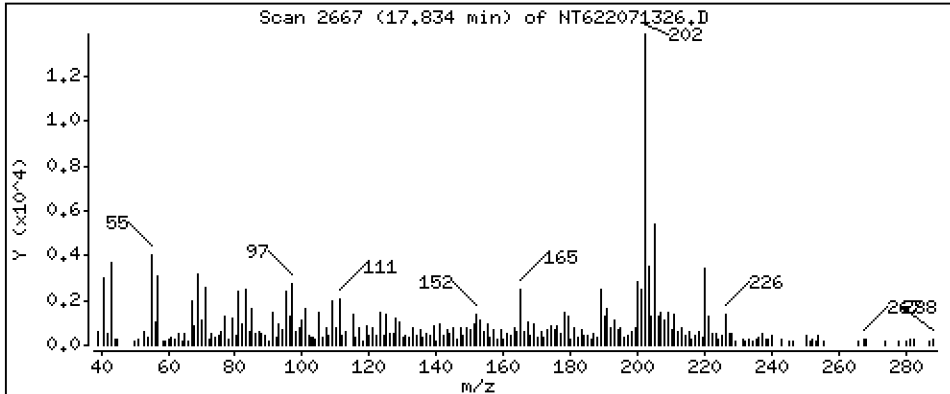
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

65 Pyrene

Concentration: 1.471 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02

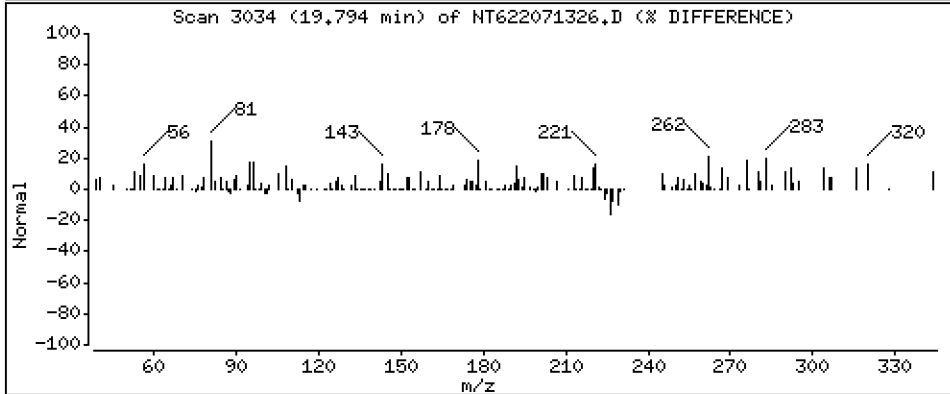
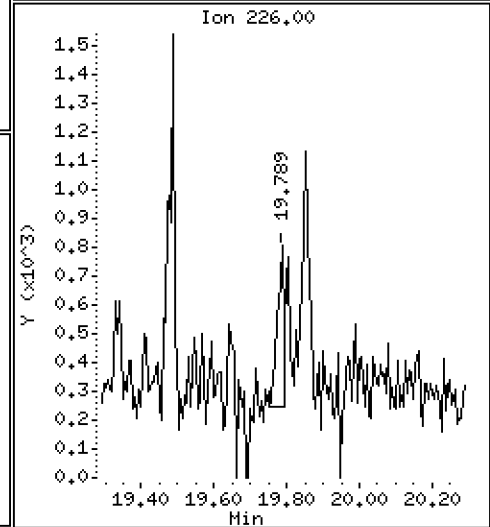
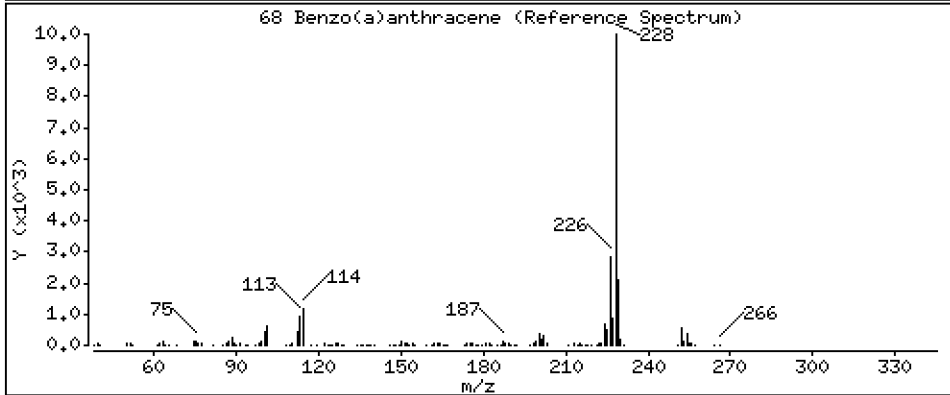
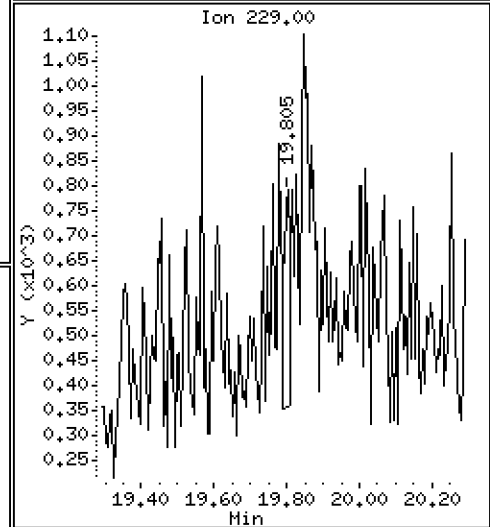
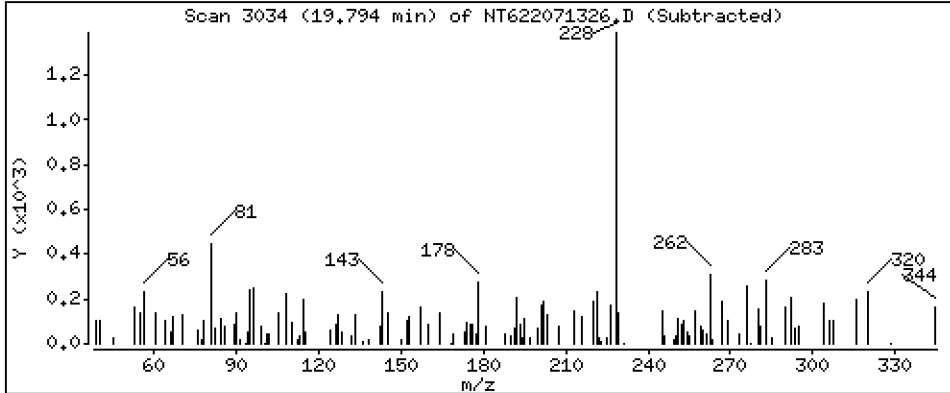
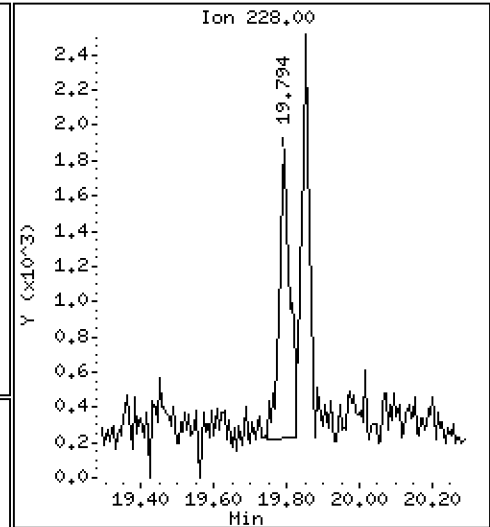
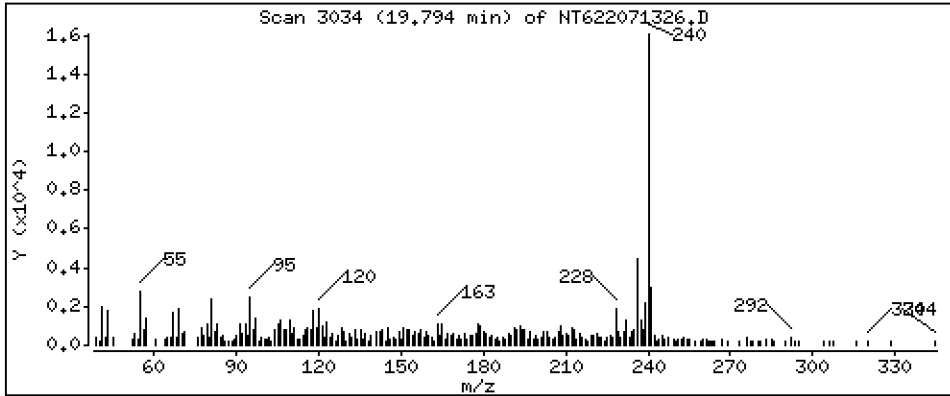
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

68 Benzo(a)anthracene

Concentration: 0.2705 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02

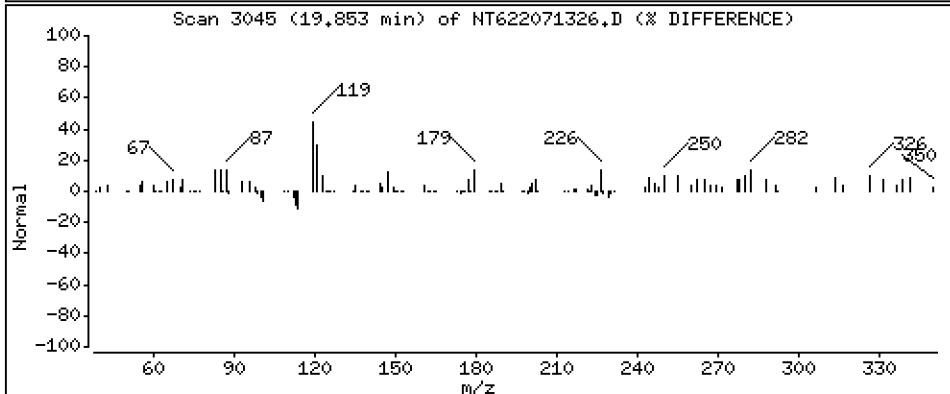
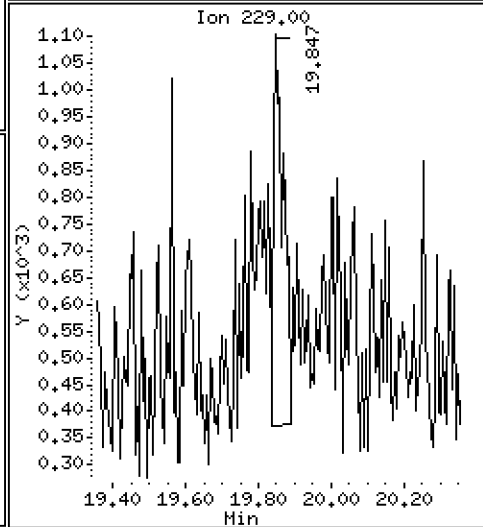
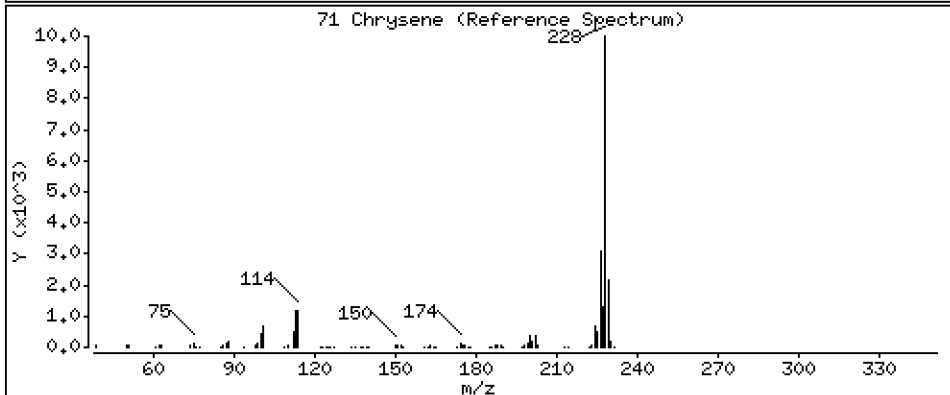
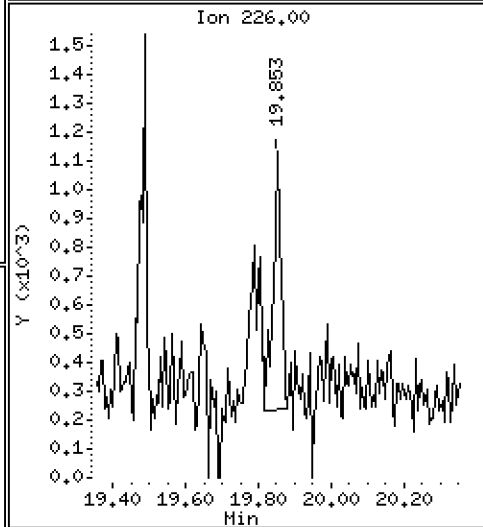
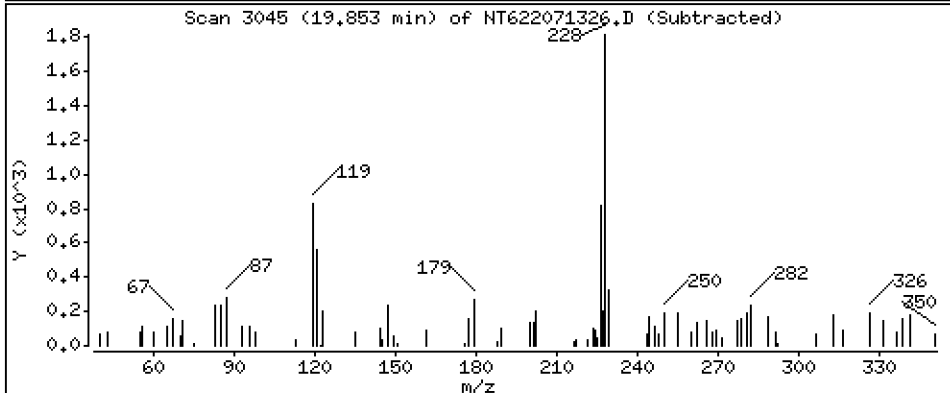
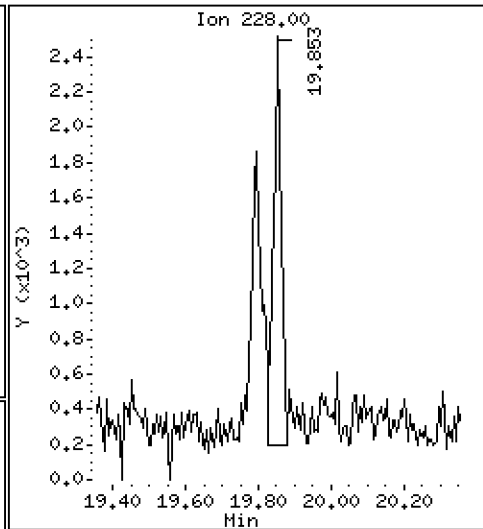
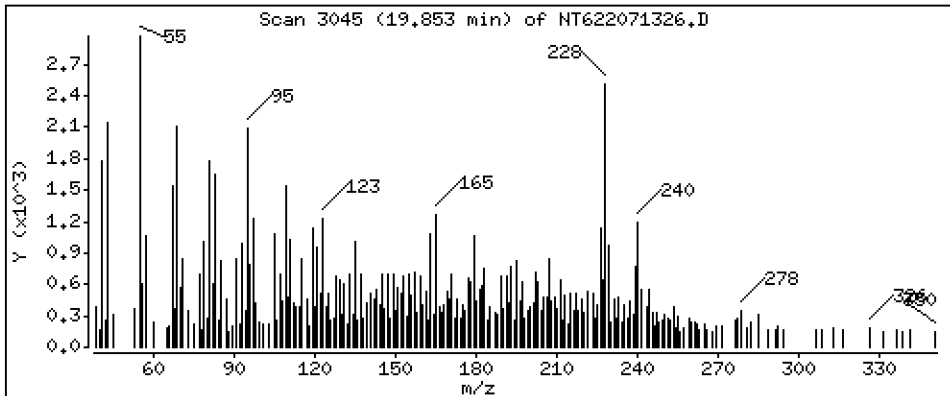
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

71 Chrysene

Concentration: 0.3033 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02

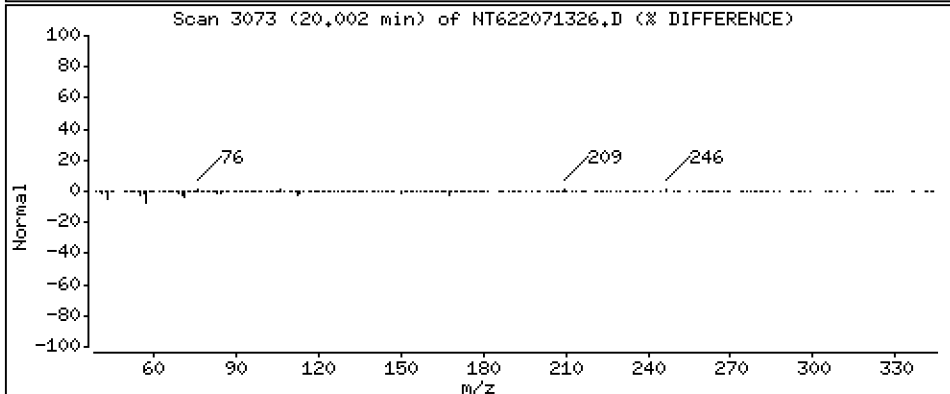
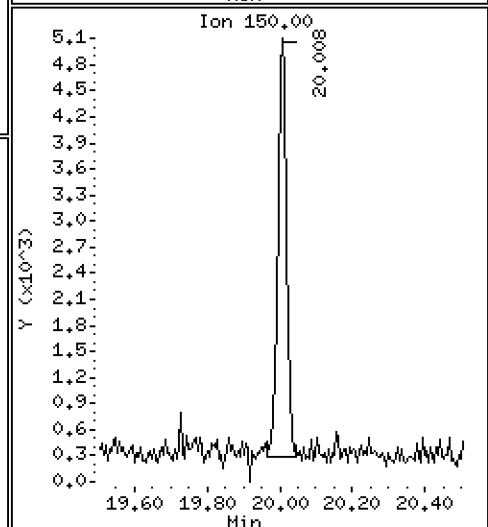
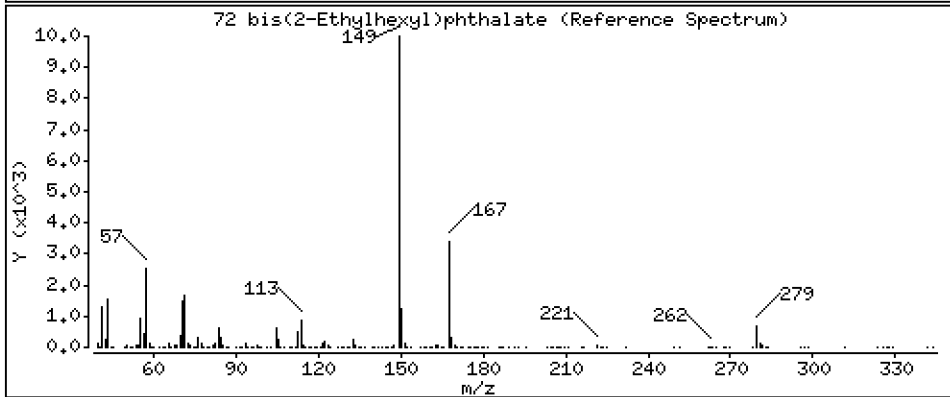
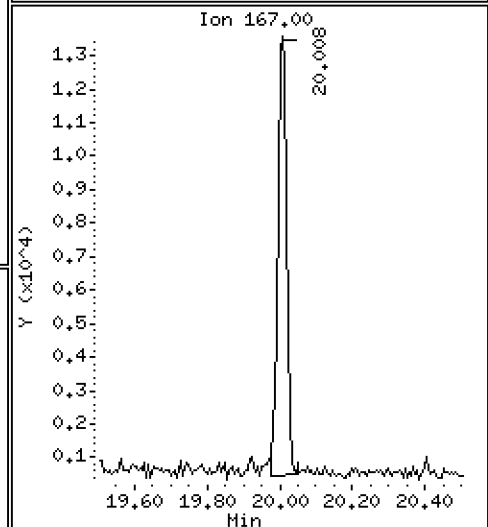
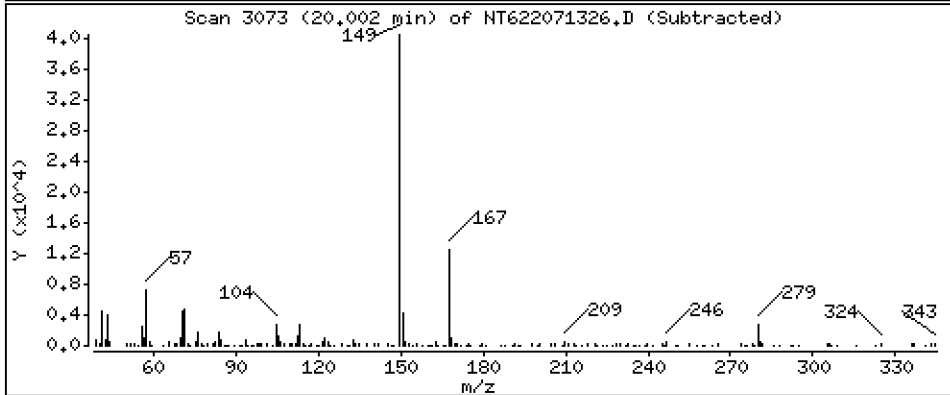
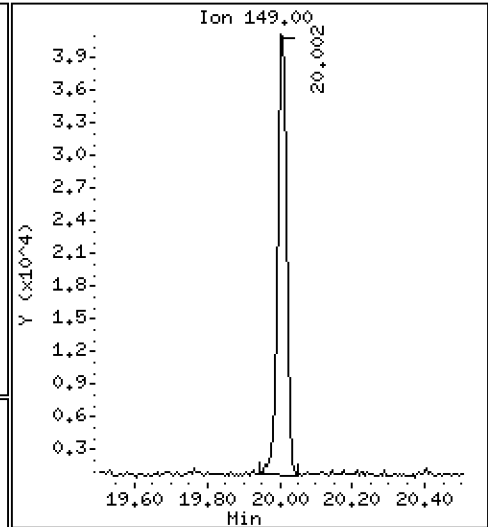
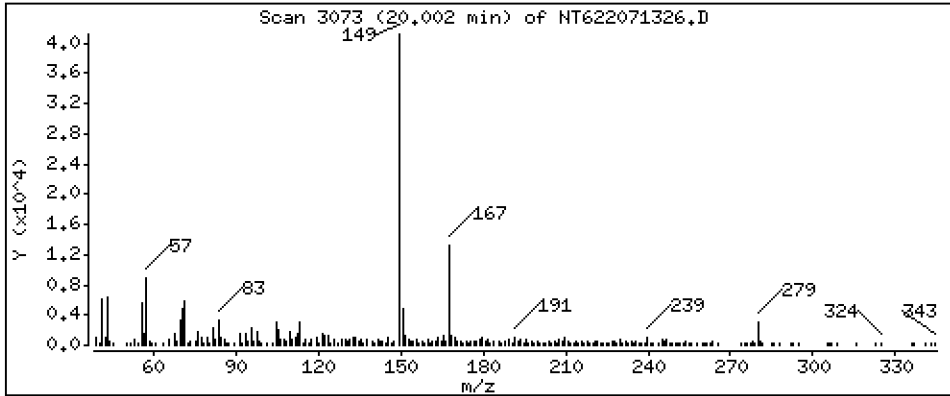
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

72 bis(2-Ethylhexyl)phthalate

Concentration: 9.944 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02

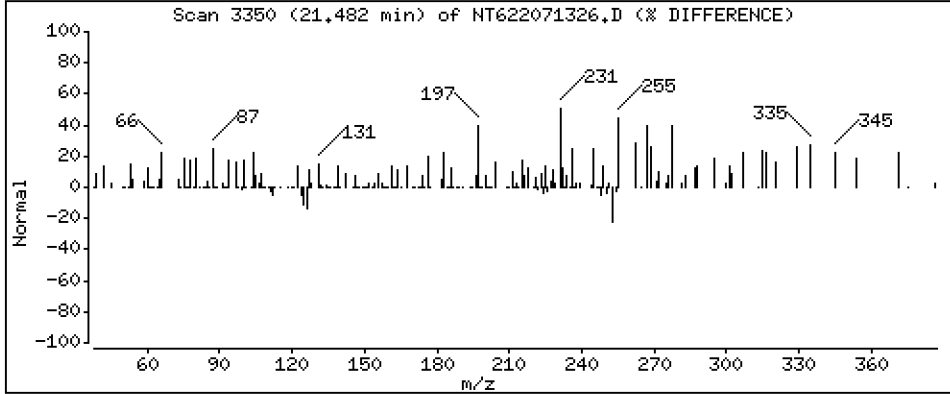
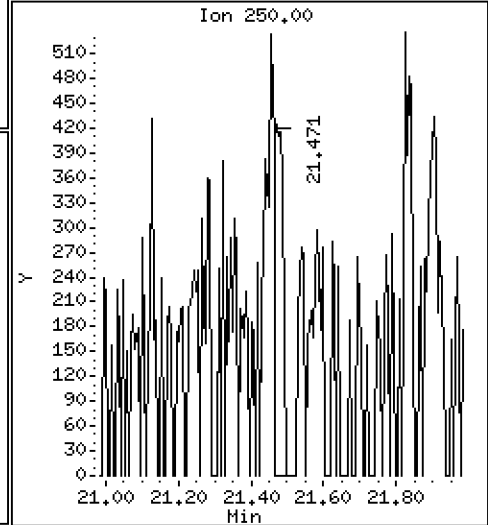
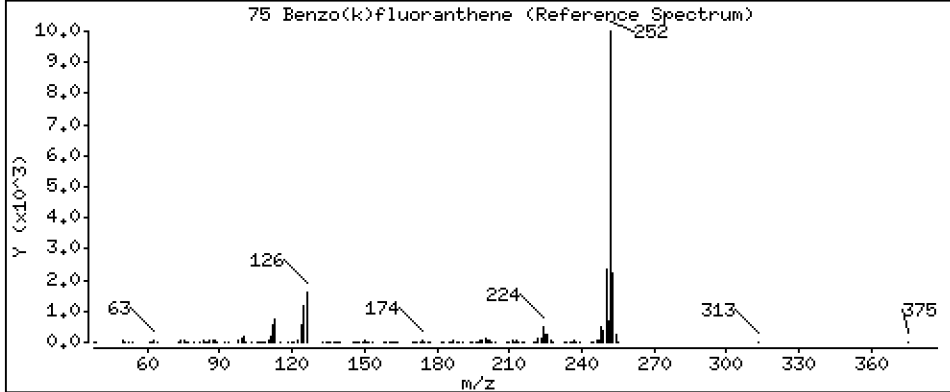
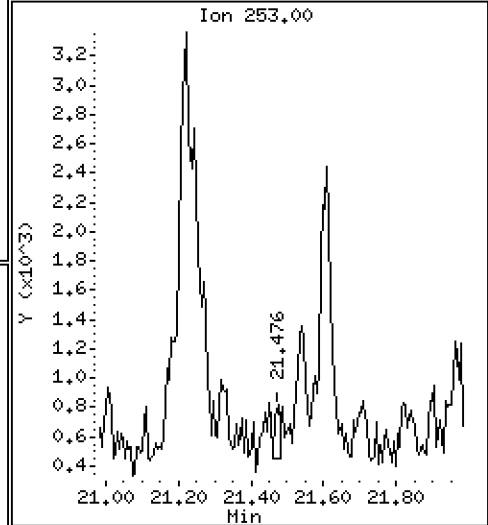
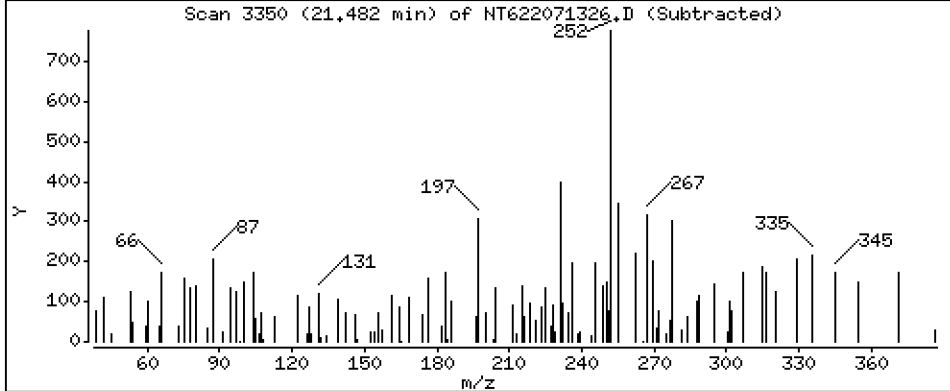
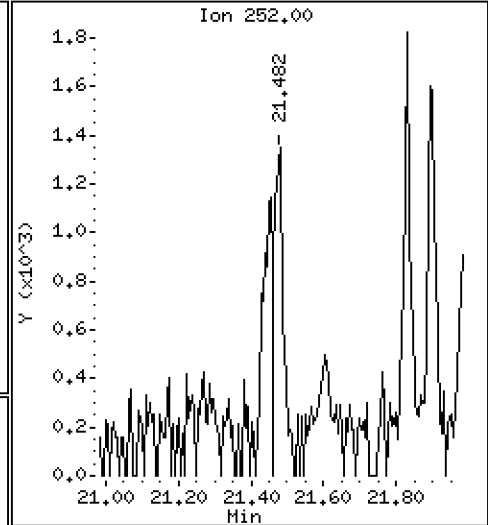
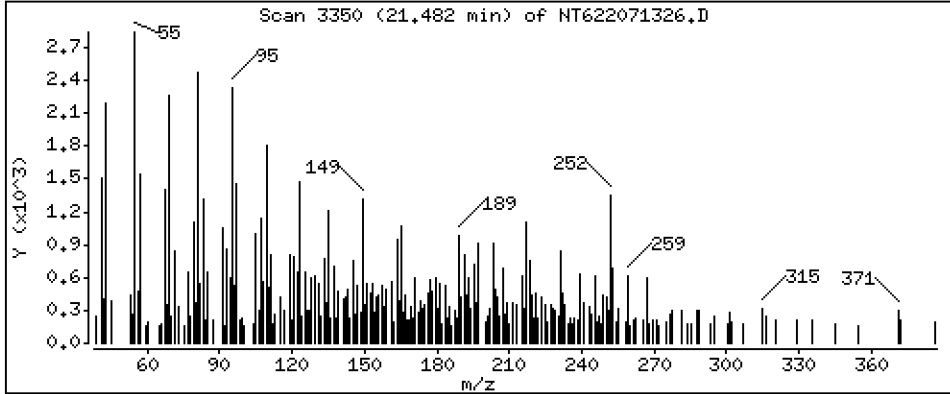
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

75 Benzo(k)fluoranthene

Concentration: 0.2150 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02

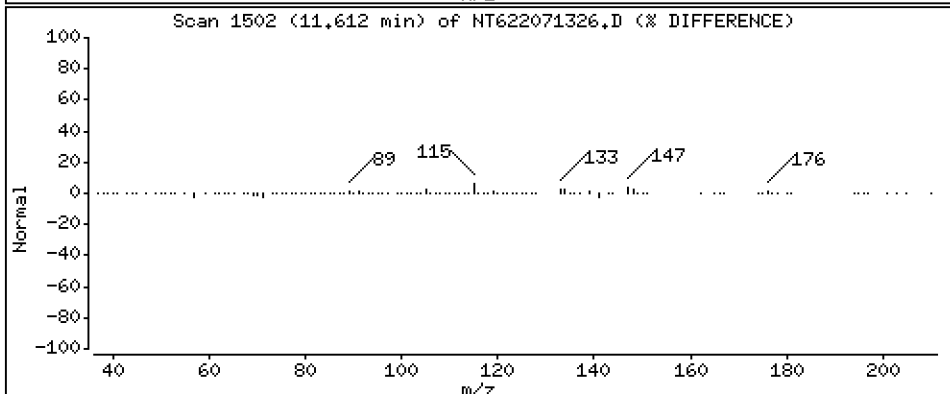
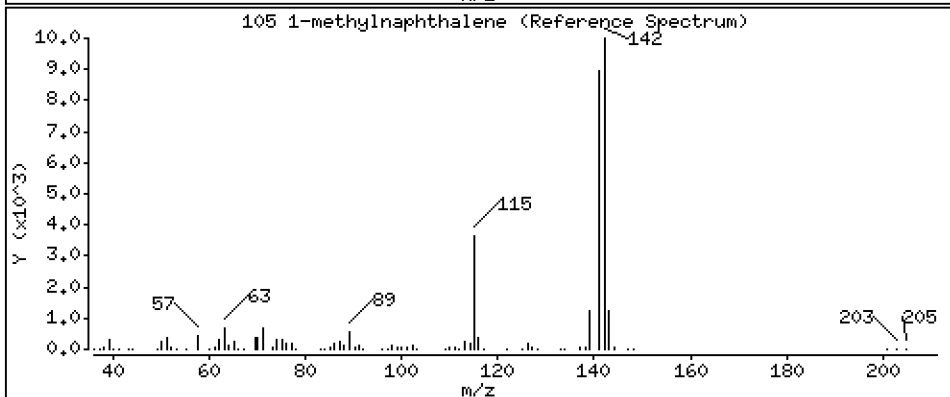
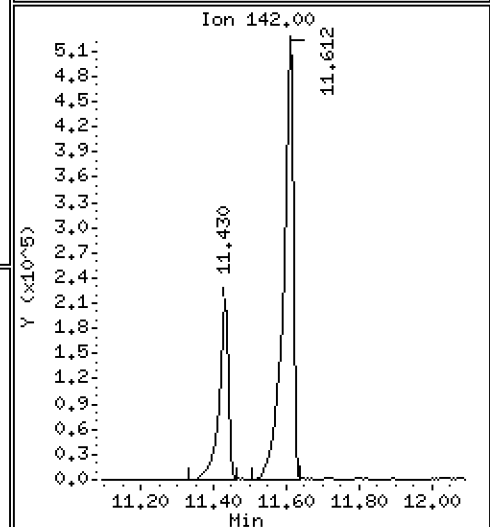
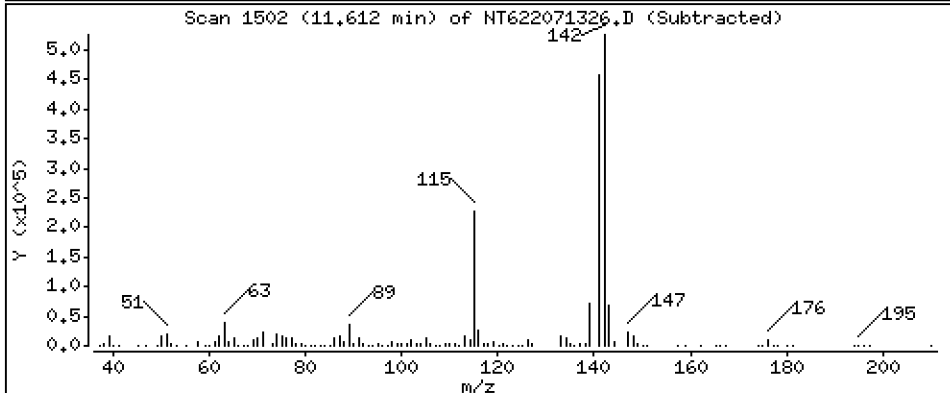
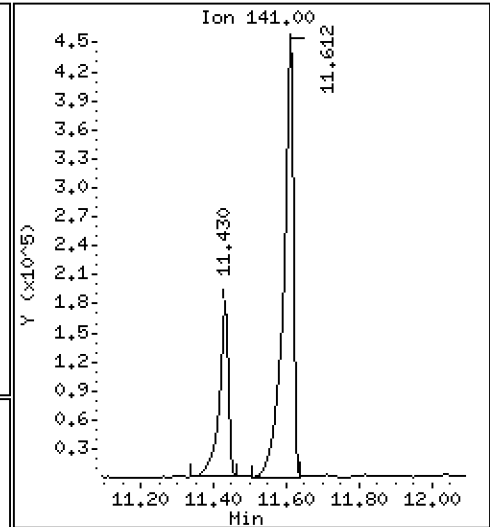
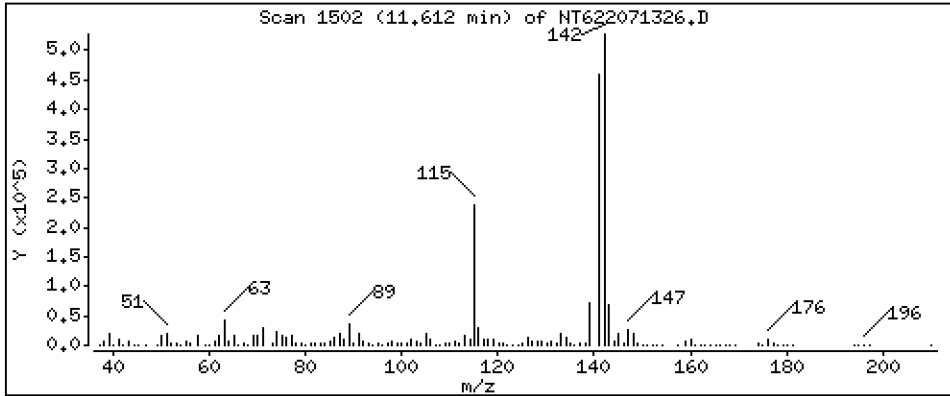
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

105 1-methylnaphthalene

Concentration: 169.2 ug/mL



Date : 14-JUL-2022 00:55

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02

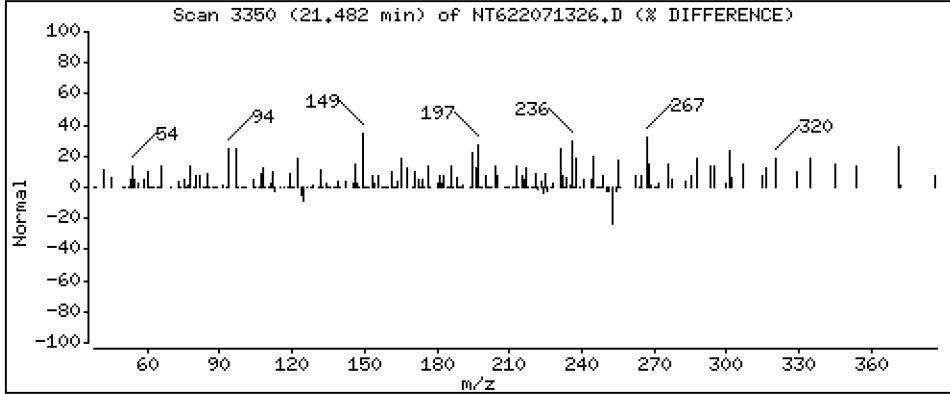
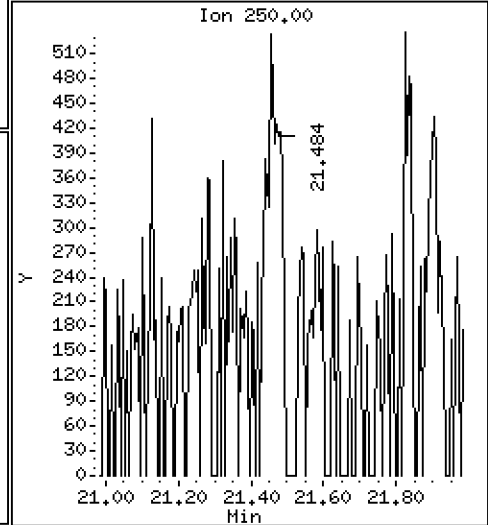
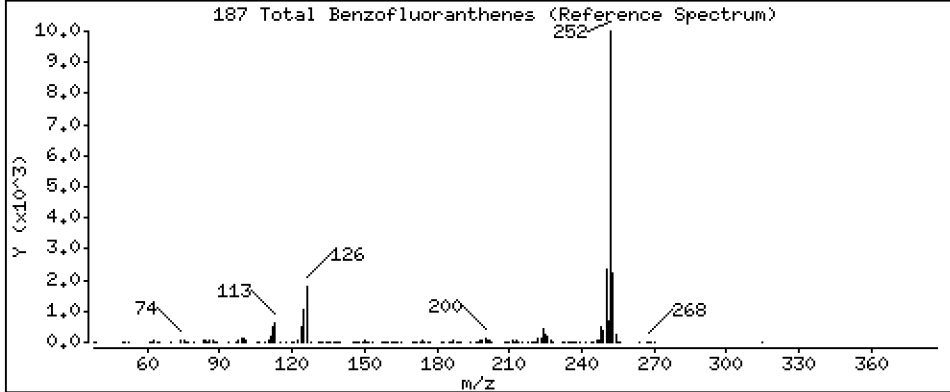
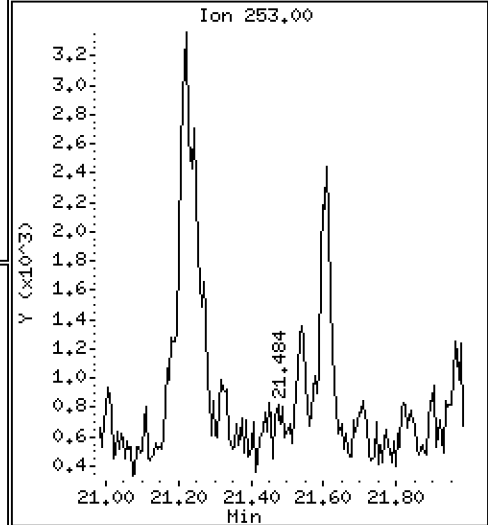
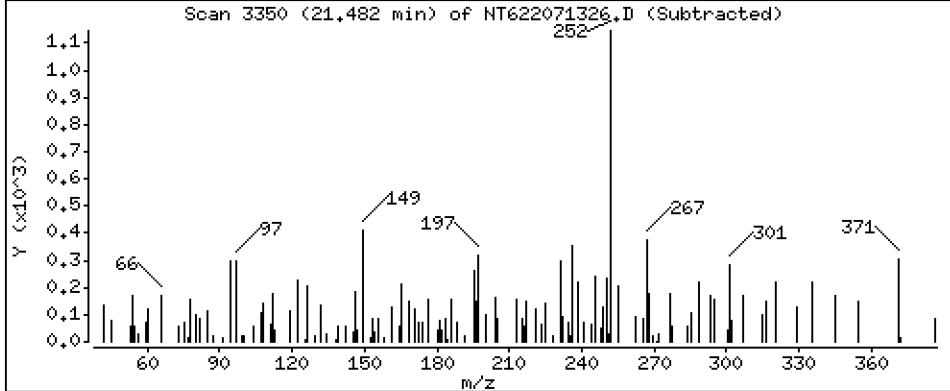
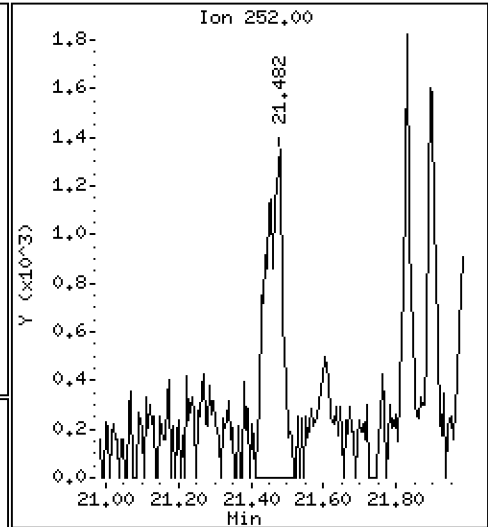
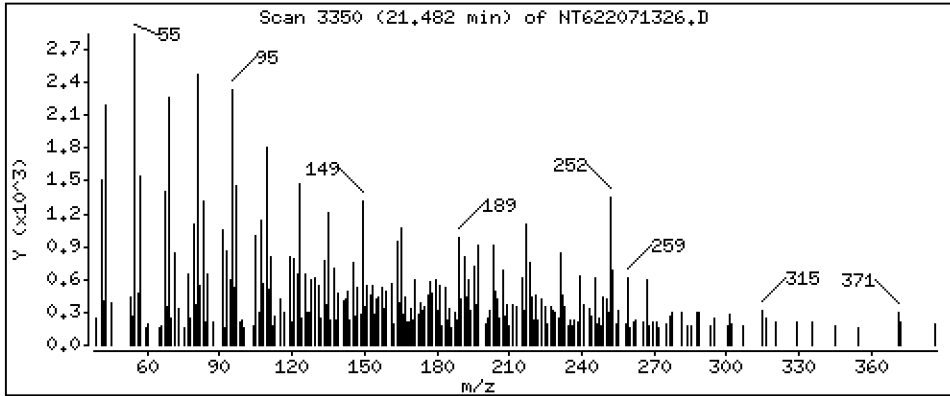
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

187 Total Benzofluoranthenes

Concentration: 0.3931 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220713A.b\NT622071326.D
 Lab Smp Id: 22G0121-02
 Inj Date : 14-JUL-2022 00:55
 Operator : JZ
 Smp Info : 22G0121-02
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220713A.b\SW84620220516.m
 Meth Date : 14-Jul-2022 10:53 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 26
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: JIANQING-202105

Inst ID: nt6.i

Compound Sublist: LLMDDL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.307	6.309	(0.766)	116737	33.6899	33.69
\$ 2 Phenol-d5	99		7.830	7.826	(0.951)	146135	36.8678	36.87
3 Phenol	94		7.840	7.842	(0.952)	1256	0.27263	0.2726
\$ 5 2-Chlorophenol-d4	132		7.947	7.949	(0.965)	132426	36.9635	36.96
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		8.235	8.237	(1.000)	64108	20.0000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		8.535	8.531	(1.036)	55768	21.7509	21.75
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		8.535	8.521	(1.036)	1453	0.67527	0.6753
14 2,2'-oxybis(1-Chloropropane)	45		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		8.994	8.985	(1.092)	1078	0.32389	0.3239 (M)
\$ 18 Nitrobenzene-d5	82		9.165	9.161	(0.892)	91058	25.9366	25.94
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		10.019	10.080	(0.976)	51084	20.6377	20.64 (M)
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		10.270	10.272	(1.000)	228629	20.0000	
28 Naphthalene	128		10.335	10.304	(1.006)	174773	18.1873	18.19 (M)
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	141		11.429	11.415	(1.113)	317120	57.7916	57.79
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====	=====	=====	=====	=====	=====	=====	=====
34 2,4,6-Trichlorophenol	196					Compound Not Detected.		
35 2,4,5-Trichlorophenol	196					Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172		12.065	12.056	(0.918)	179919	23.0425	23.04
37 2-Chloronaphthalene	162					Compound Not Detected.		
38 2-Nitroaniline	65					Compound Not Detected.		
39 Dimethylphthalate	163					Compound Not Detected.		
40 Acenaphthylene	152					Compound Not Detected.		
41 2,6-Dinitrotoluene	165					Compound Not Detected.		
* 42 Acenaphthene-d10	164		13.139	13.125	(1.000)	128352	20.0000	
43 3-Nitroaniline	138					Compound Not Detected.		
44 Acenaphthene	153		13.187	13.178	(1.004)	85449	14.2994	14.30 (M)
45 2,4-Dinitrophenol	184					Compound Not Detected.		
46 Dibenzofuran	168		13.448	13.434	(1.024)	15143	1.75349	1.753 (M)
47 4-Nitrophenol	109					Compound Not Detected.		
48 2,4-Dinitrotoluene	165					Compound Not Detected.		
50 Diethylphthalate	149					Compound Not Detected.		
49 Fluorene	166		14.004	13.995	(1.066)	99181	14.3569	14.36
51 4-Chlorophenyl-phenylether	204					Compound Not Detected.		
52 4-Nitroaniline	138					Compound Not Detected.		
53 4,6-Dinitro-2-methylphenol	198					Compound Not Detected.		
54 N-Nitrosodiphenylamine	169		14.223	14.225	(0.917)	101795	17.6257	17.63
\$ 55 2,4,6-Tribromophenol	330		14.436	14.422	(1.099)	54222	49.6486	49.65 (M)
56 4-Bromophenyl-phenylether	248					Compound Not Detected.		
57 Hexachlorobenzene	284					Compound Not Detected.		
58 Pentachlorophenol	266		15.339	15.320	(0.989)	4019	2.20872	2.209
* 59 Phenanthrene-d10	188		15.515	15.501	(1.000)	266446	20.0000	
60 Phenanthrene	178		15.553	15.539	(1.002)	352948	32.1362	32.14
61 Anthracene	178		15.628	15.608	(1.007)	14545	1.32396	1.324 (M)
62 Carbazole	167					Compound Not Detected.		
63 Di-n-butylphthalate	149					Compound Not Detected.		
64 Fluoranthene	202		17.476	17.472	(1.126)	11705	0.94297	0.9430
65 Pyrene	202		17.833	17.830	(0.900)	21266	1.47108	1.471
\$ 66 Terphenyl-d14	244		18.143	18.140	(0.915)	203155	18.5596	18.56
67 Butylbenzylphthalate	149					Compound Not Detected.		
68 Benzo(a)anthracene	228		19.794	19.790	(0.999)	3453	0.27047	0.2705 (M)
* 69 Chrysene-d12	240		19.820	19.817	(1.000)	230251	20.0000	
70 3,3'-Dichlorobenzidine	252					Compound Not Detected.		
71 Chrysene	228		19.852	19.854	(1.002)	3557	0.30329	0.3033
72 bis(2-Ethylhexyl)phthalate	149		20.002	20.004	(0.955)	70975	9.94370	9.944 (M)
* 134 Di-n-octylphthalate-d4	153		20.942	20.939	(1.000)	308530	20.0000	
73 Di-n-octylphthalate	149					Compound Not Detected.		
74 Benzo(b)fluoranthene	252					Compound Not Detected.		
75 Benzo(k)fluoranthene	252		21.481	21.483	(0.977)	2567	0.21496	0.2150 (M)
76 Benzo(a)pyrene	252					Compound Not Detected.		
* 77 Perylene-d12	264		21.983	21.980	(1.000)	241416	20.0000	
78 Indeno(1,2,3-cd)pyrene	276					Compound Not Detected.		
79 Dibenzo(a,h)anthracene	278					Compound Not Detected.		
80 Benzo(g,h,i)perylene	276					Compound Not Detected.		
90 N-Nitrosodimethylamine	74					Compound Not Detected.		
103 Pyridine	79					Compound Not Detected.		
105 1-methylnaphthalene	141		11.611	11.592	(1.131)	876232	169.186	169.2
111 Azobenzene (1,2-DP-Hydrazine)	77					Compound Not Detected.		
187 Total Benzofluoranthenes	252		21.481	21.483	(0.977)	4458	0.39308	0.3931 (M)
144 alpha-Terpineol	59					Compound Not Detected.		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS					ON-COLUMN	FINAL
=====	=====	=====	=====	=====	=====	=====	

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 13-JUL-2022
 Lab File ID: NT622071326.D Calibration Time: 22:06
 Lab Smp Id: 22G0121-02
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220713A.b\SW84620220516.m
 Misc Info: 22-

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	49157	24579	98314	64108	30.41
27 Naphthalene-d8	173237	86619	346474	228629	31.97
42 Acenaphthene-d10	116765	58383	233530	128352	9.92
59 Phenanthrene-d10	233112	116556	466224	266446	14.30
69 Chrysene-d12	196434	98217	392868	230251	17.22
134 Di-n-octylphthala	268008	134004	536016	308530	15.12
77 Perylene-d12	200282	100141	400564	241416	20.54

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.24	7.74	8.74	8.24	-0.02
27 Naphthalene-d8	10.27	9.77	10.77	10.27	-0.02
42 Acenaphthene-d10	13.13	12.63	13.63	13.14	0.11
59 Phenanthrene-d10	15.50	15.00	16.00	15.52	0.09
69 Chrysene-d12	19.82	19.32	20.32	19.82	0.02
134 Di-n-octylphthala	20.94	20.44	21.44	20.94	0.02
77 Perylene-d12	21.98	21.48	22.48	21.98	0.02

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

REVIEW SUMMARY FOR FILE - NT622071326.D

Lab ID: 22G0121-02
nt6.i, SW84620220516.m, 14-JUL-2022 00:55

RT	CO-ELUTION COMPOUNDS
8.535	1,2-Dichlorobenzene-d4 and Benzyl alcohol

Quant Method: ICAL

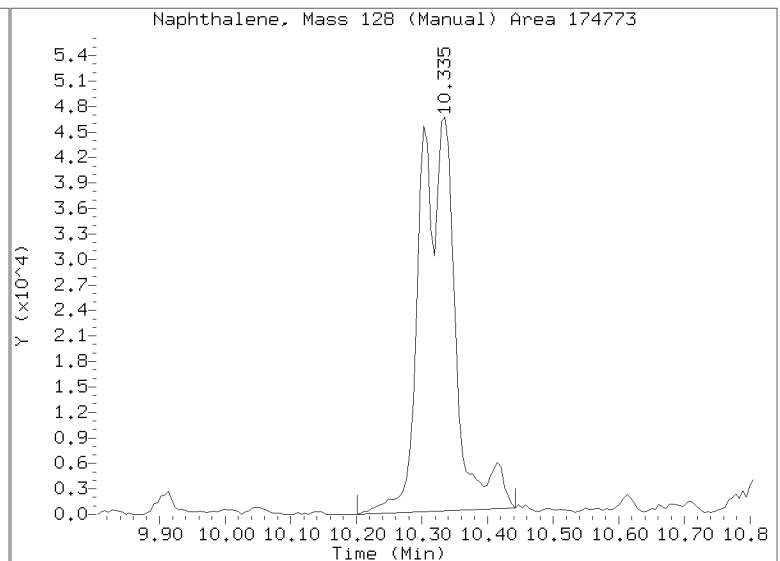
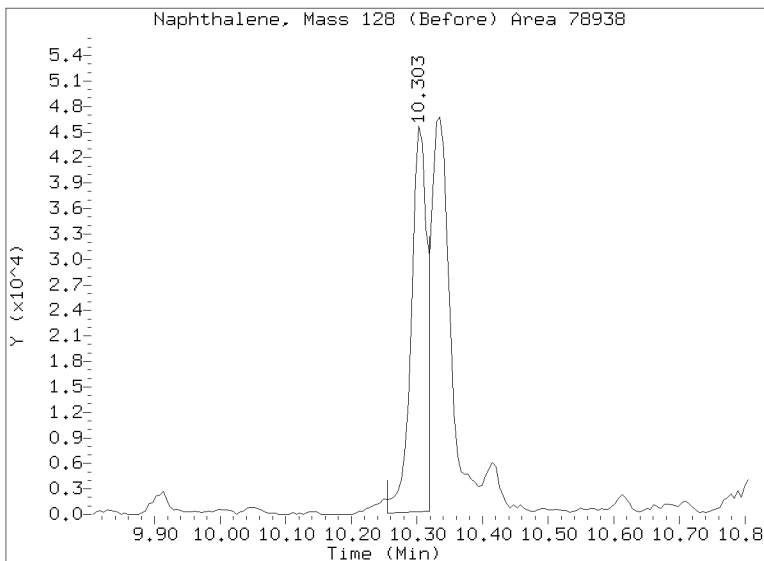
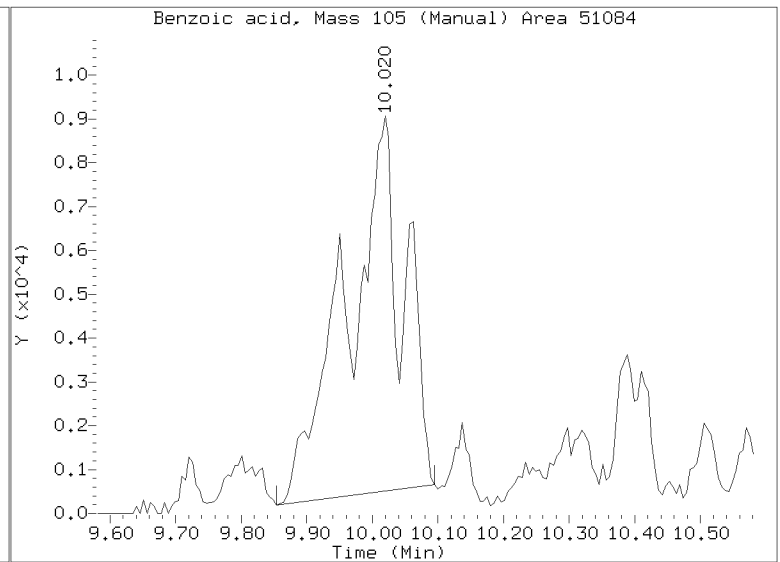
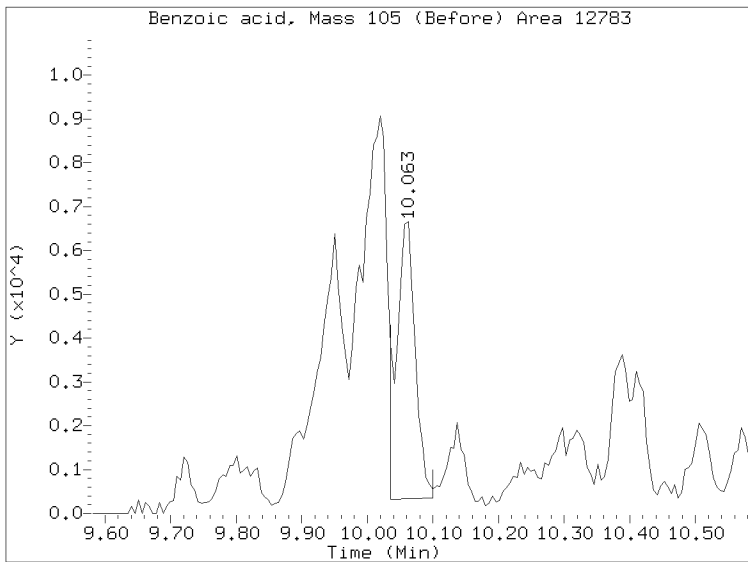
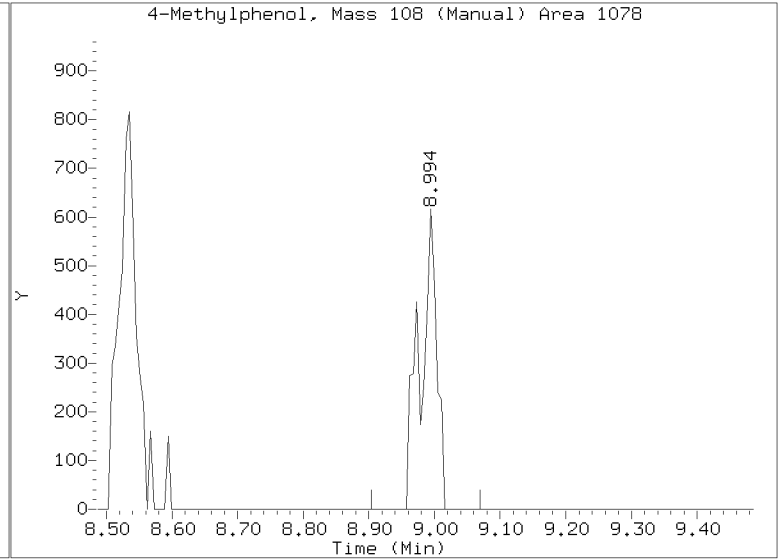
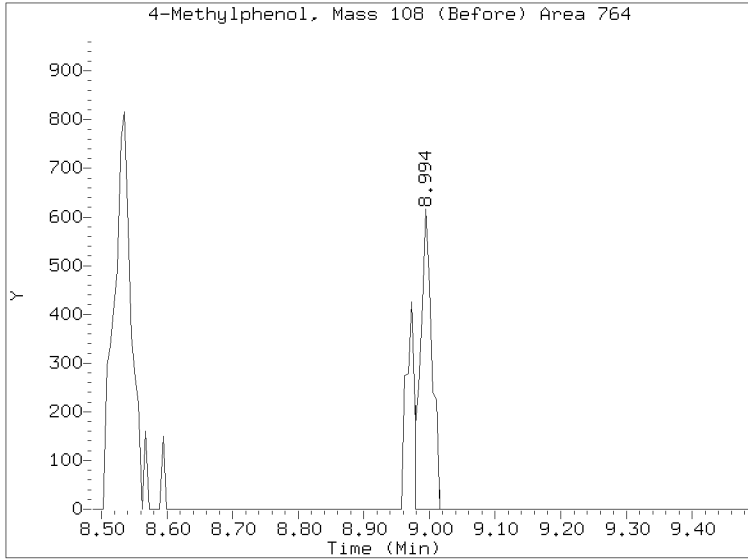
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On Column LOD for nt6.i, SW84620220516.m, LLMDL.sub = 0.2000

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

Quant Ion Manual Peak Adjustment Report

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Injection Date: 14-JUL-2022 00:55
Lab ID:22G0121-02 Client ID:
Report Date: 07/14/2022 12:13



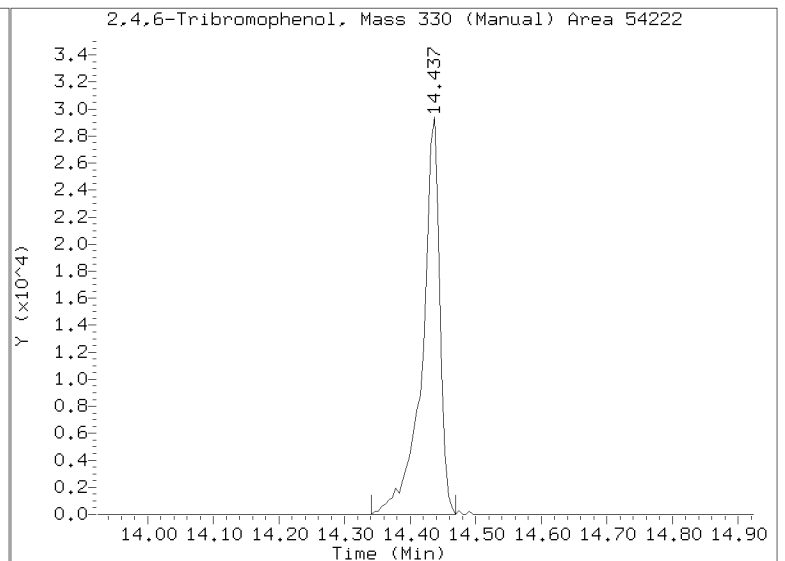
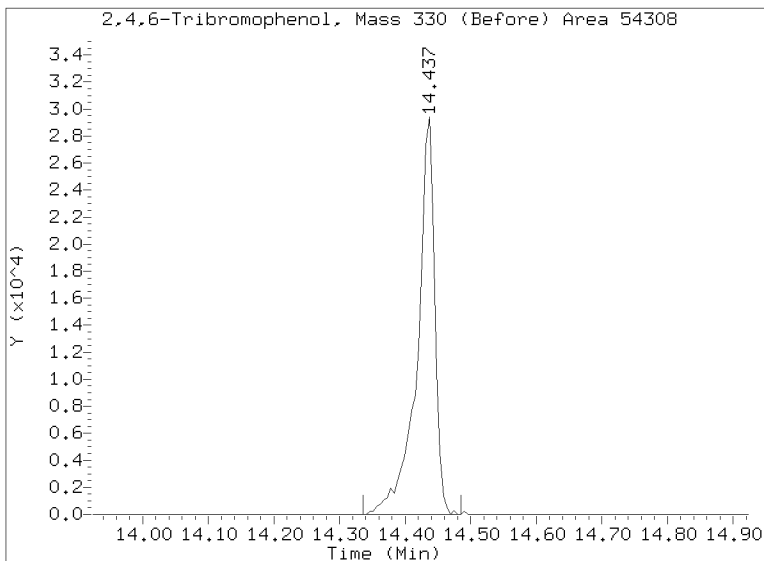
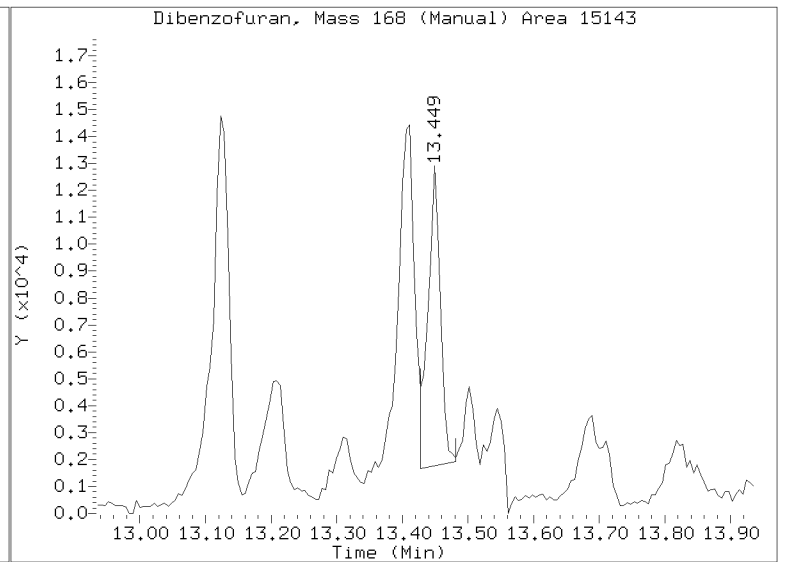
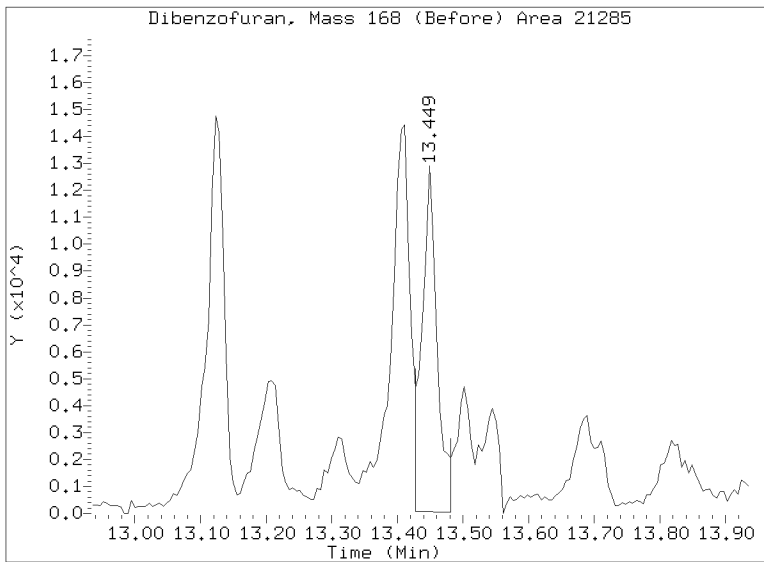
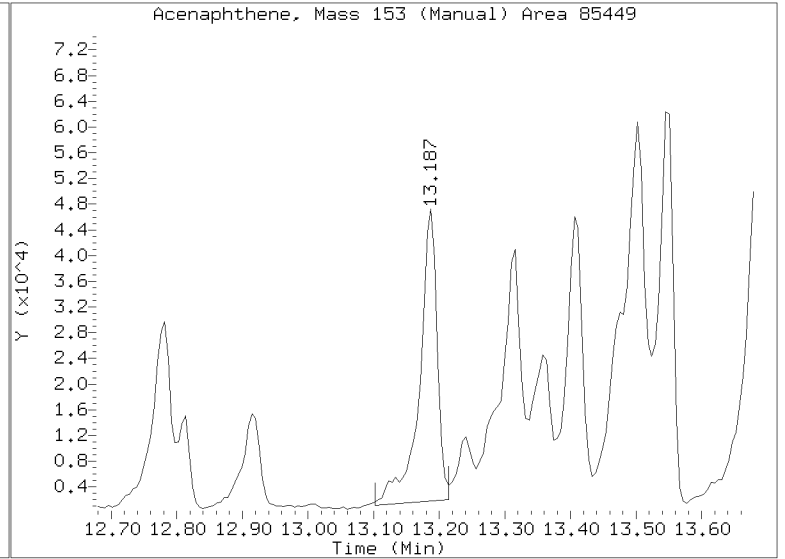
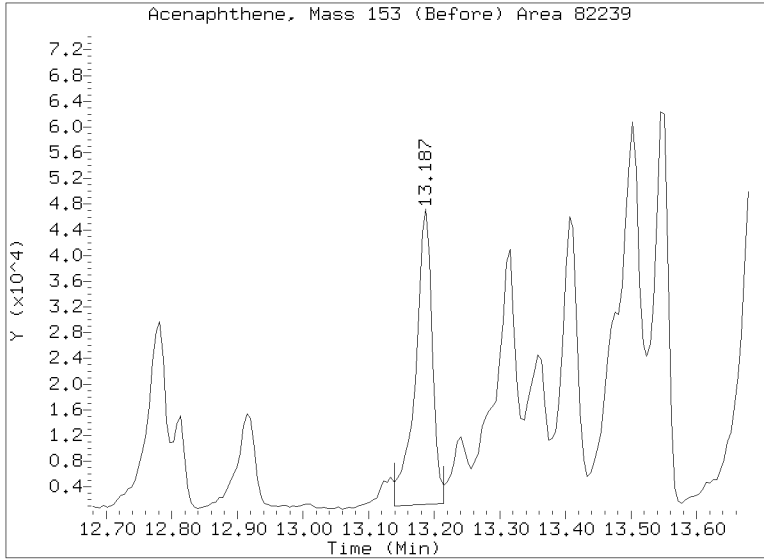
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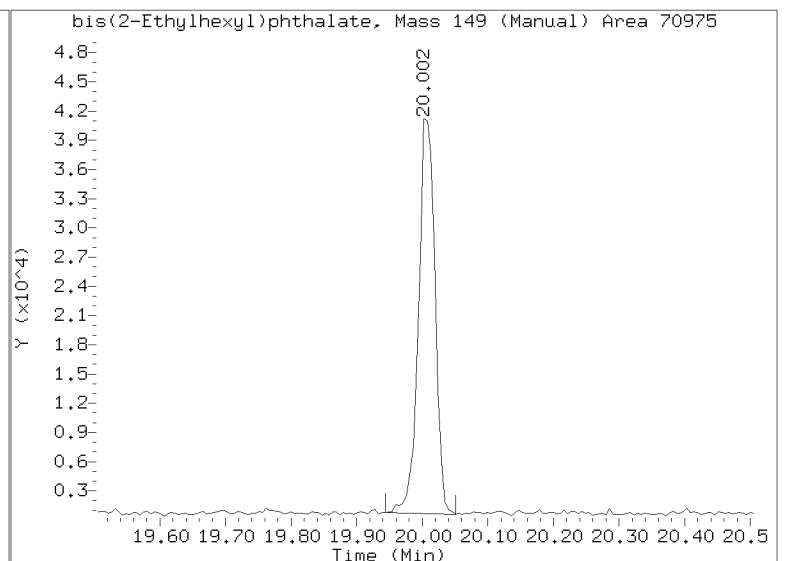
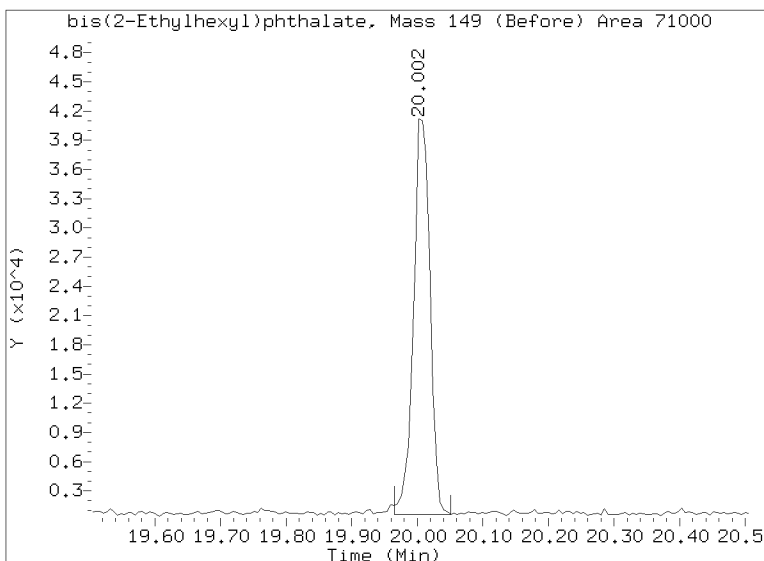
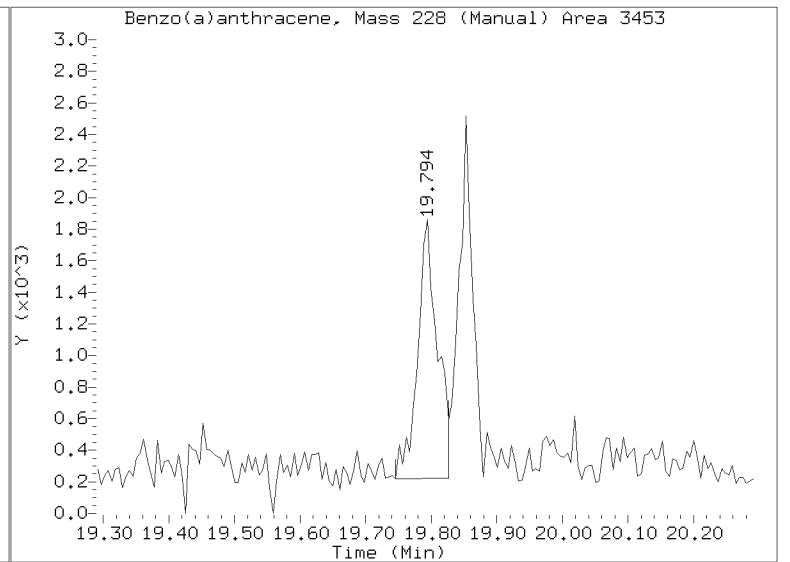
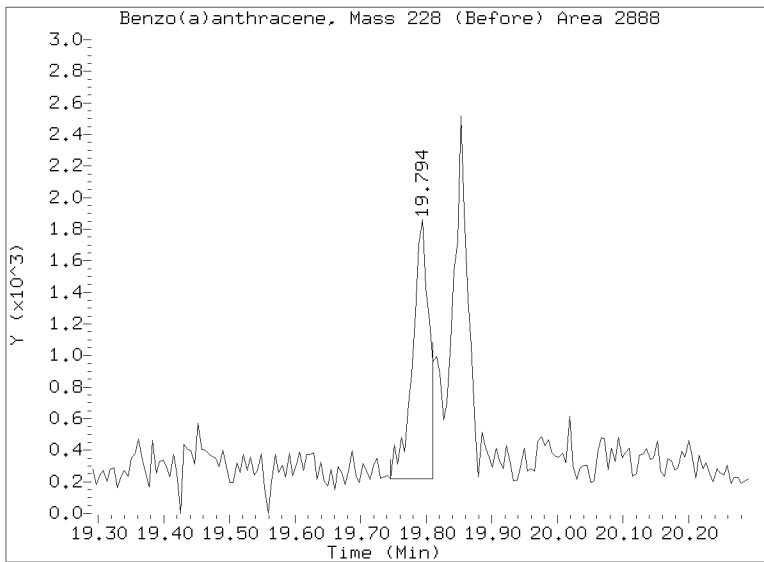
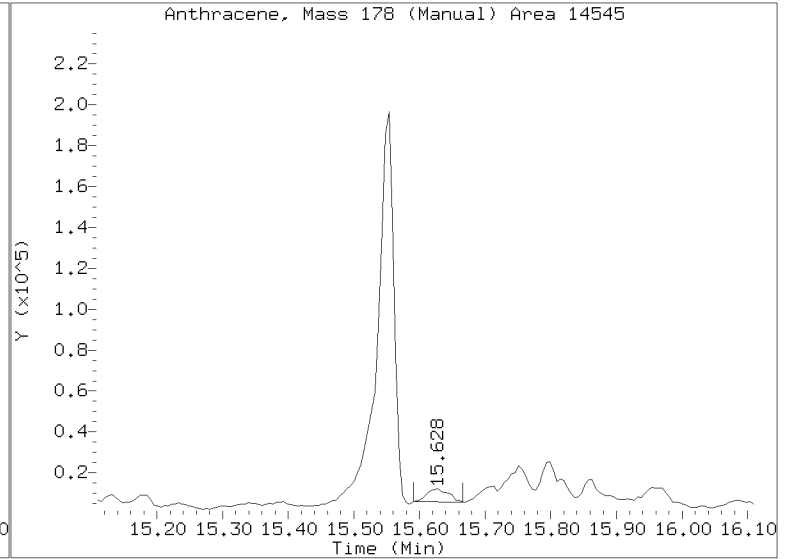
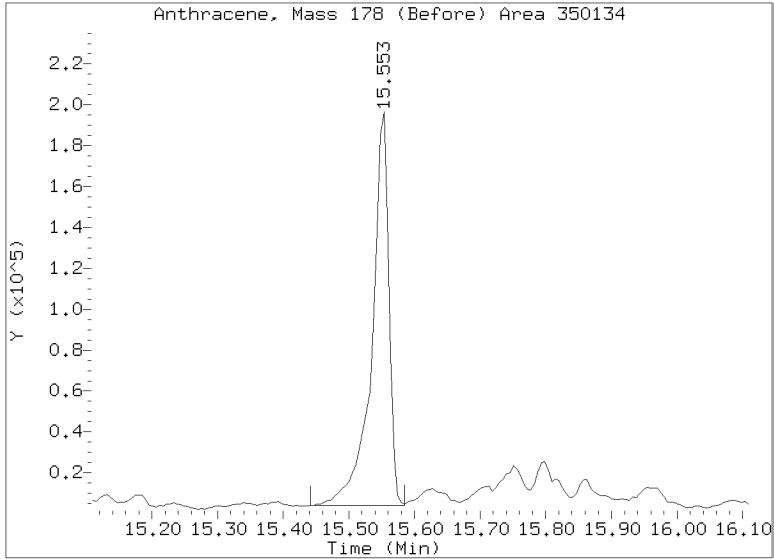
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Report Date: 07/14/2022 12:13



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Lab ID:22G0121-02 Client ID:
Report Date: 07/14/2022 12:13



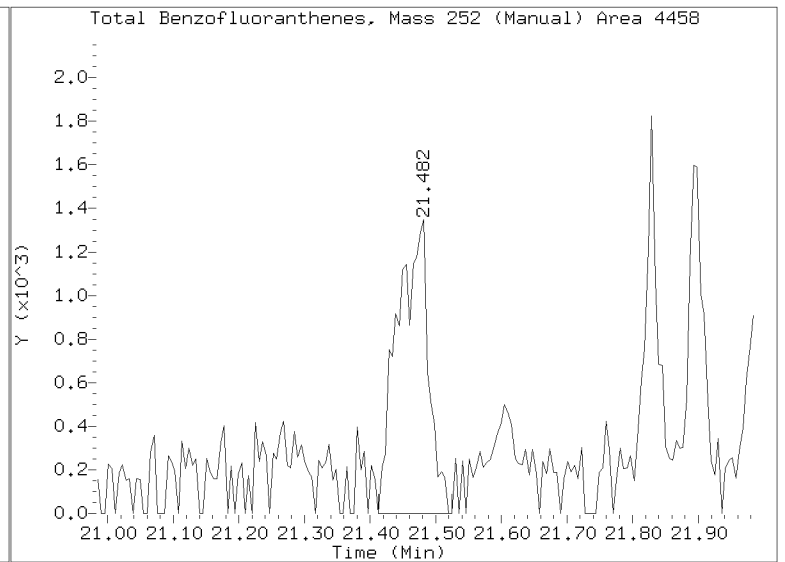
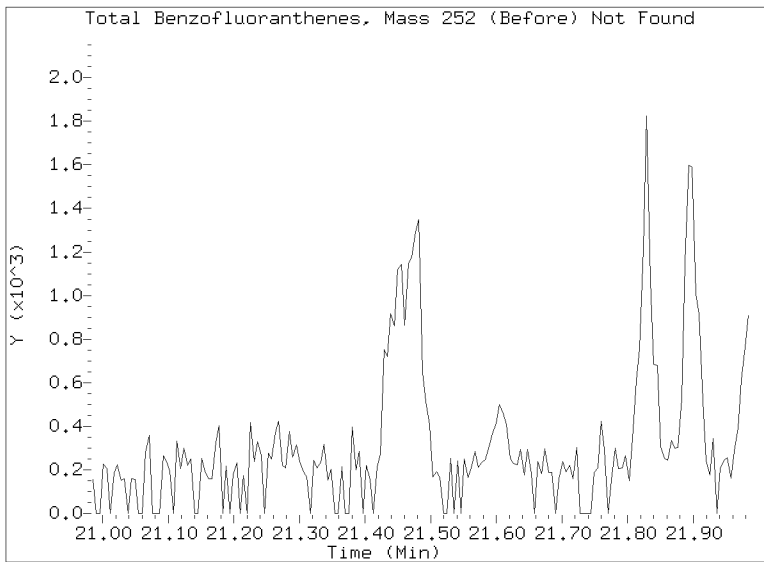
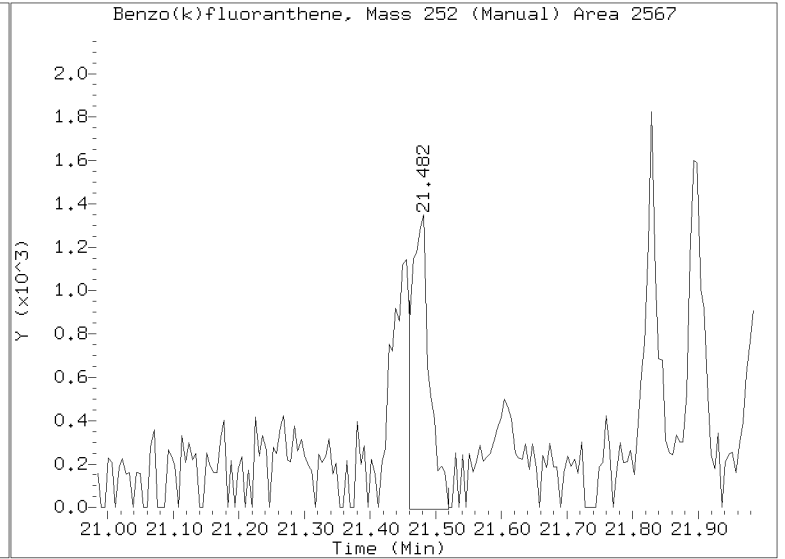
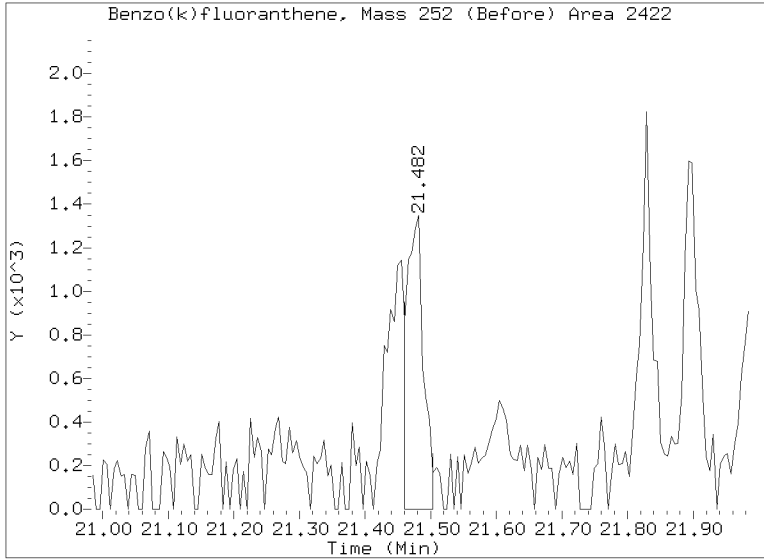
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Injection Date: 14-JUL-2022 00:55

Lab ID:22G0121-02 Client ID:

Report Date: 07/14/2022 12:13





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E
Semivolatile Organic Compounds (67 ug/kg -1 ug/L)

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Water

Laboratory ID: 22G0121-02RE1 B

SDG: 22G0121

Sampled: 07/06/22 11:30

Prepared: 07/11/22 13:42

File ID: NT622071504.D

% Solids:

Preparation: EPA 3520C (Liq Liq)

Analyzed: 07/15/22 13:43

Batch: BKG0169

Sequence: SKG0144

Initial/Final: 350 mL / 0.5 mL

Instrument: NT6

Column: ZB-5MSi

Calibration: FE00035

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
91-20-3	Naphthalene	3	24.5	D	1.1	4.3
91-57-6	2-Methylnaphthalene	3	81.6	D	1.0	4.3
83-32-9	Acenaphthene	3	22.2	D	1.3	4.3
87-86-5	Pentachlorophenol	3	11.0	U	11.0	42.9
85-01-8	Phenanthrene	3	46.8	D	1.0	4.3
206-44-0	Fluoranthene	3	1.8	U	1.8	4.3
56-55-3	Benzo(a)anthracene	3	1.7	U	1.7	4.3
218-01-9	Chrysene	3	1.6	U	1.6	4.3
205-99-2	Benzo(b)fluoranthene	3	1.9	U	1.9	4.3
207-08-9	Benzo(k)fluoranthene	3	1.9	U	1.9	4.3
50-32-8	Benzo(a)pyrene	3	2.1	U	2.1	4.3
193-39-5	Indeno(1,2,3-cd)pyrene	3	1.7	U	1.7	4.3
53-70-3	Dibenzo(a,h)anthracene	3	1.8	U	1.8	4.3
90-12-0	1-Methylnaphthalene	3	239	D	1.2	4.3

SURROGATES	ADDED:(ug/L)	(ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	53.571	47.2	88.1	33 - 120	
Phenol-d5	53.571	49.0	91.4	38 - 120	
2-Chlorophenol-d4	53.571	49.8	92.9	41 - 120	
1,2-Dichlorobenzene-d4	35.714	29.9	83.7	20 - 120	
Nitrobenzene-d5	35.714	36.5	102	27 - 120	
2-Fluorobiphenyl	35.714	32.5	90.9	33 - 120	
2,4,6-Tribromophenol	53.571	66.6	124	52 - 120	*
p-Terphenyl-d14	35.714	26.5	74.2	28 - 120	

Data File: \\target\share\chem3\nt6.1\20220715.B\NT622071504.D

Date: 15-JUL-2022 13:43

Client ID:

Sample Info: 22C0121-02REL,3

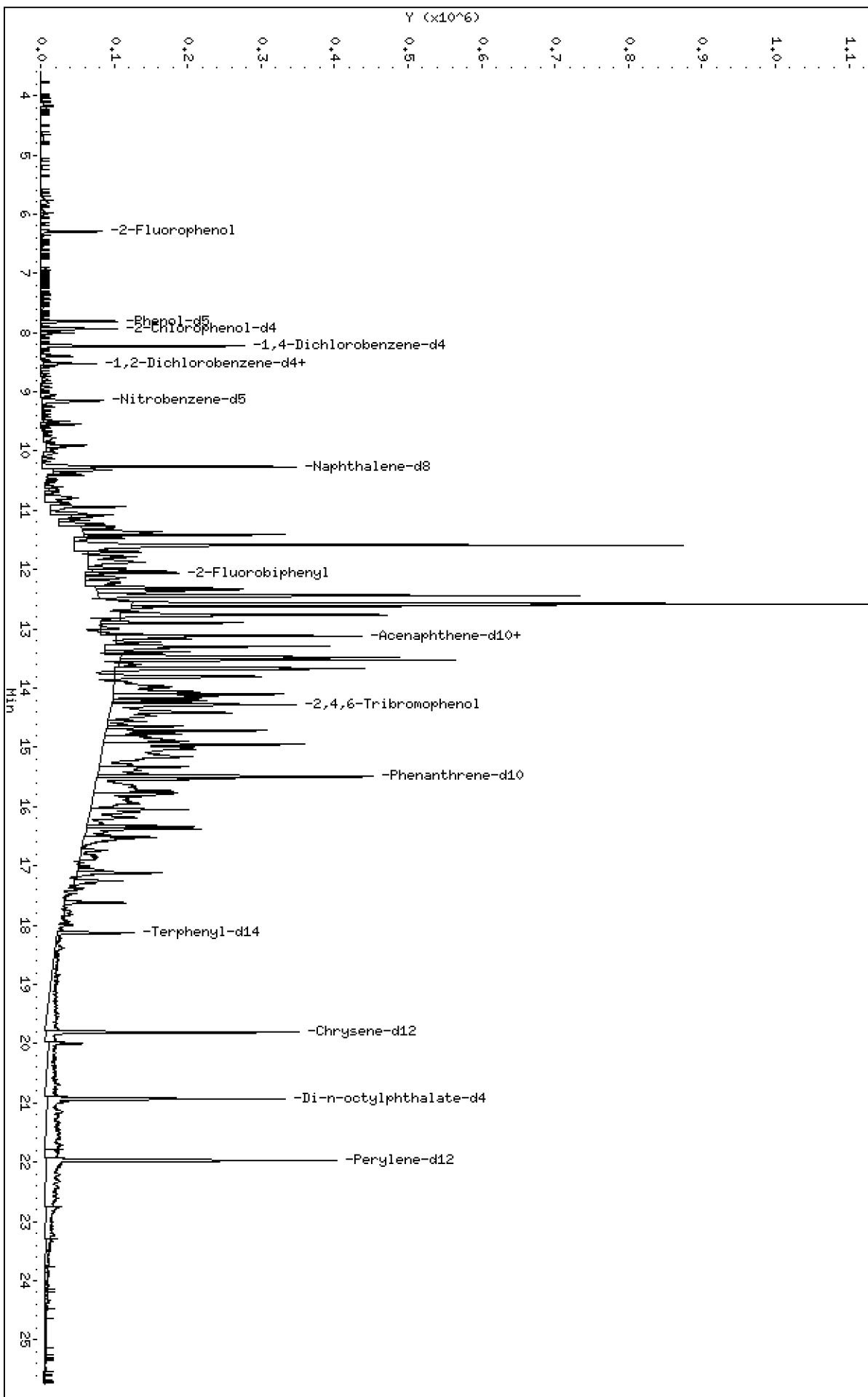
Column phase: ZB-5msi

Instrument: nt6.1

Operator: JZ

Column diameter: 0.32

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Date : 15-JUL-2022 13:43

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02RE1,3

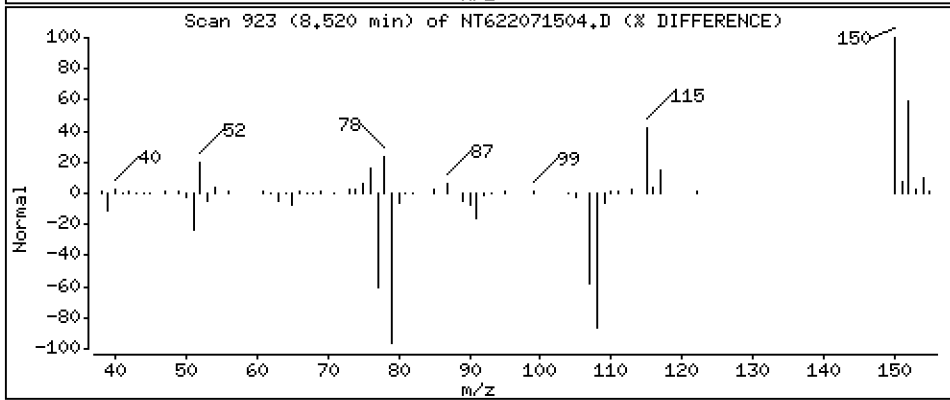
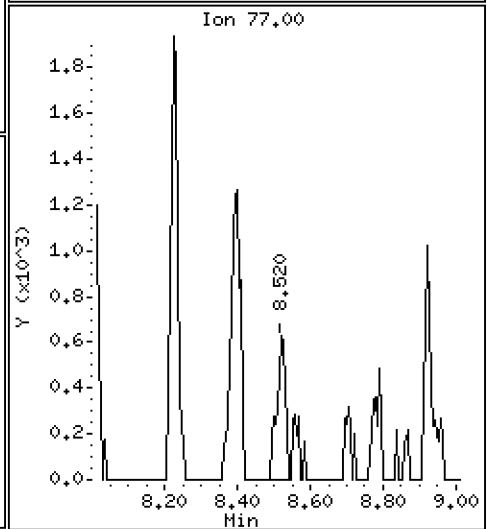
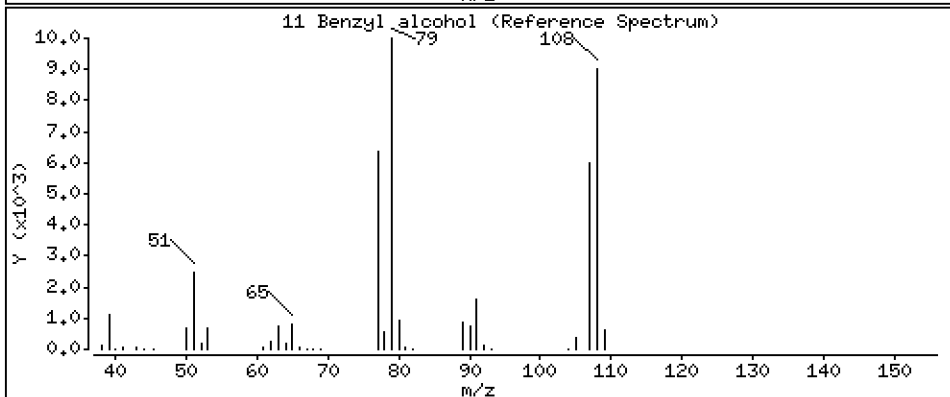
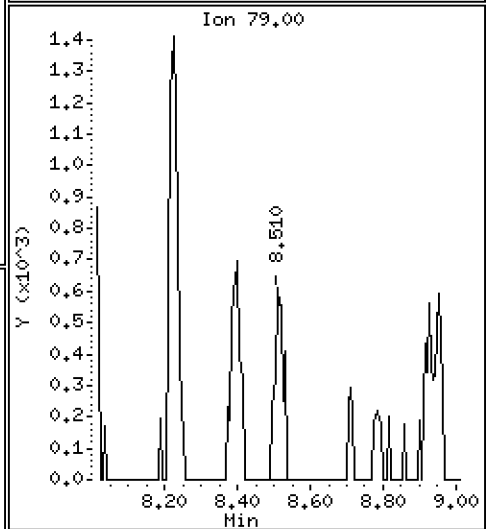
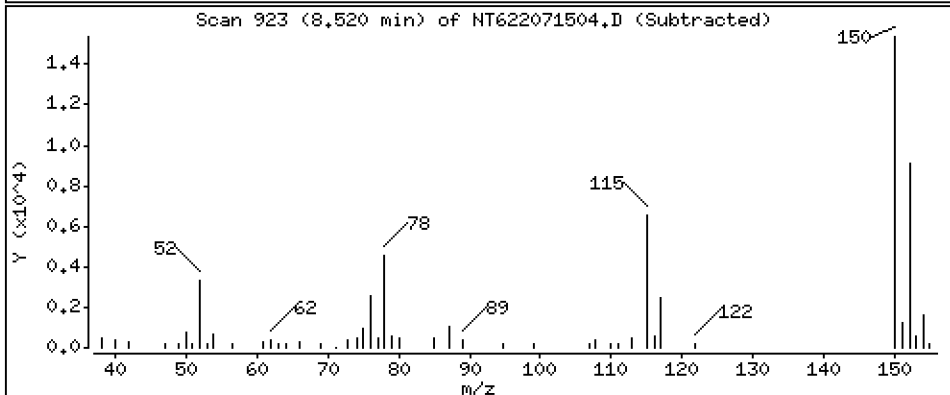
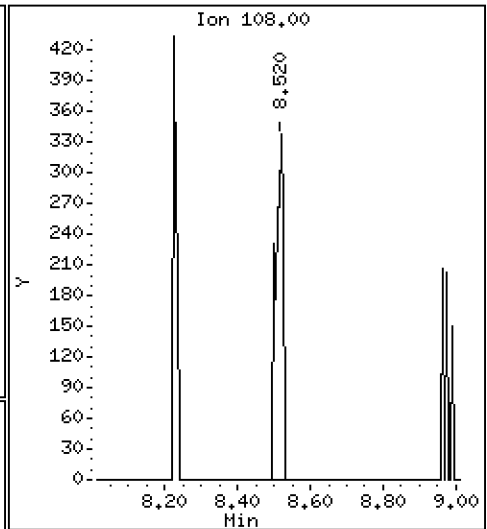
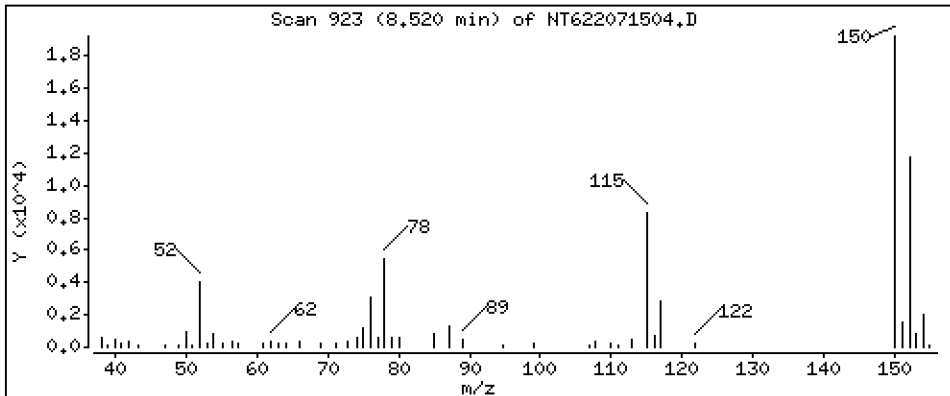
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

11 Benzyl alcohol

Concentration: 0.6651 ug/mL



Date : 15-JUL-2022 13:43

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02RE1,3

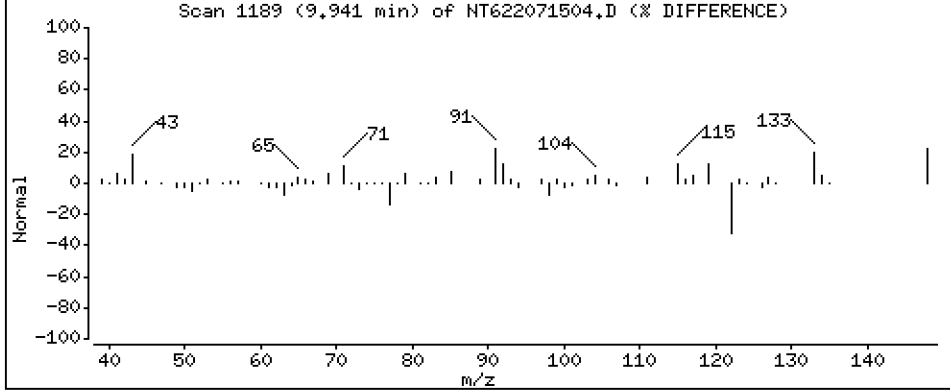
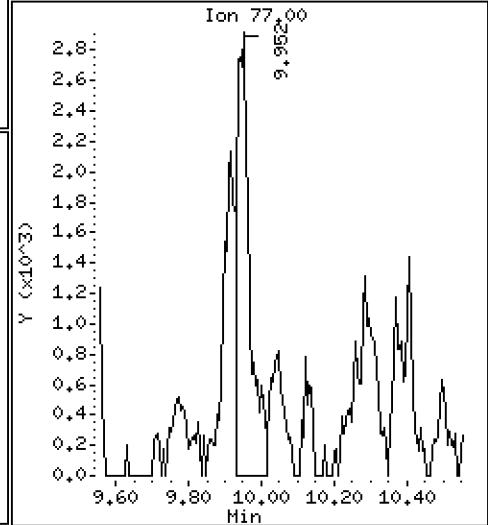
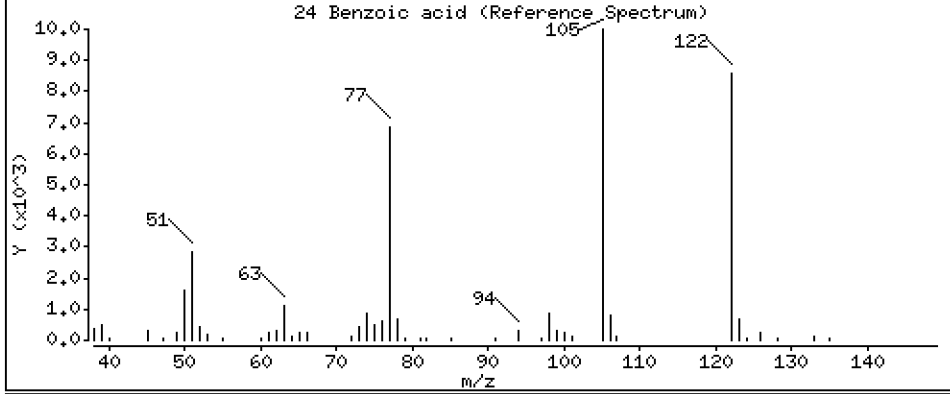
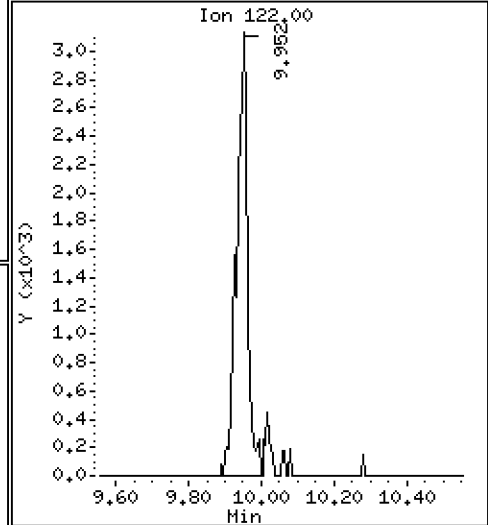
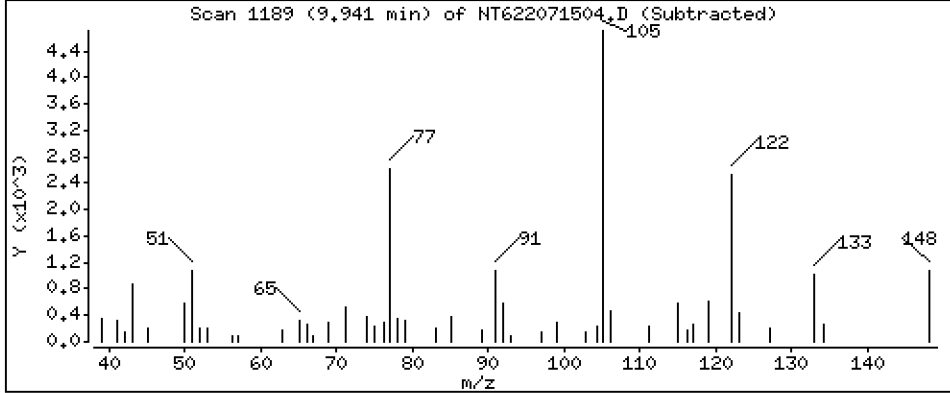
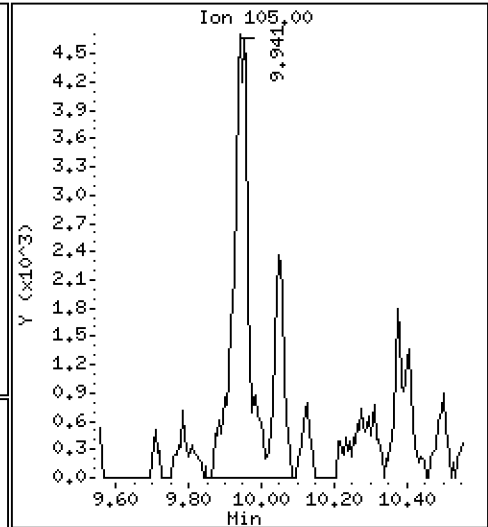
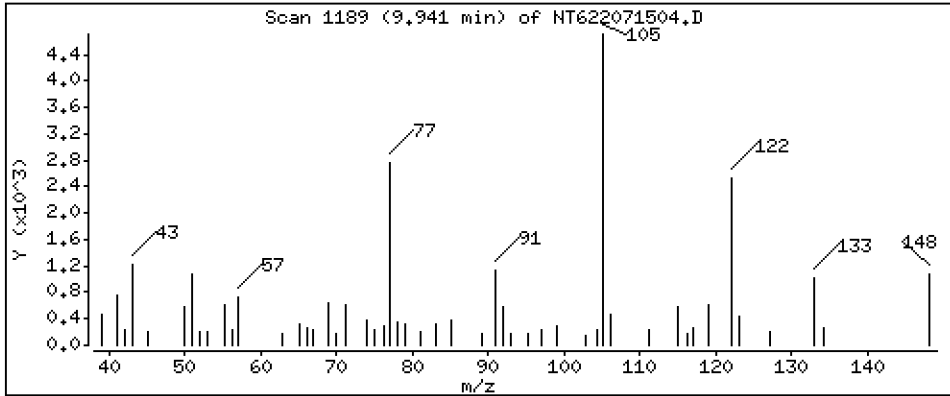
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

24 Benzoic acid

Concentration: 23.29 ug/mL



Date : 15-JUL-2022 13:43

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02RE1,3

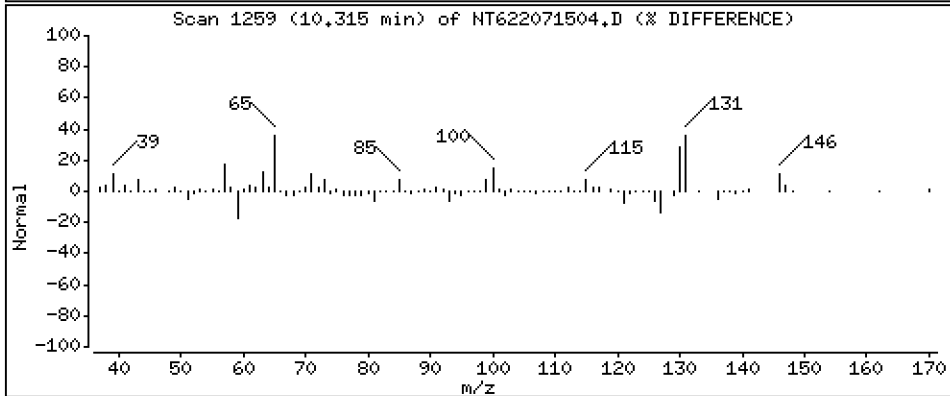
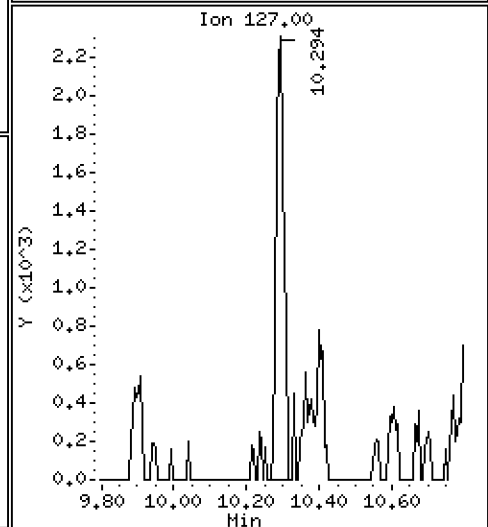
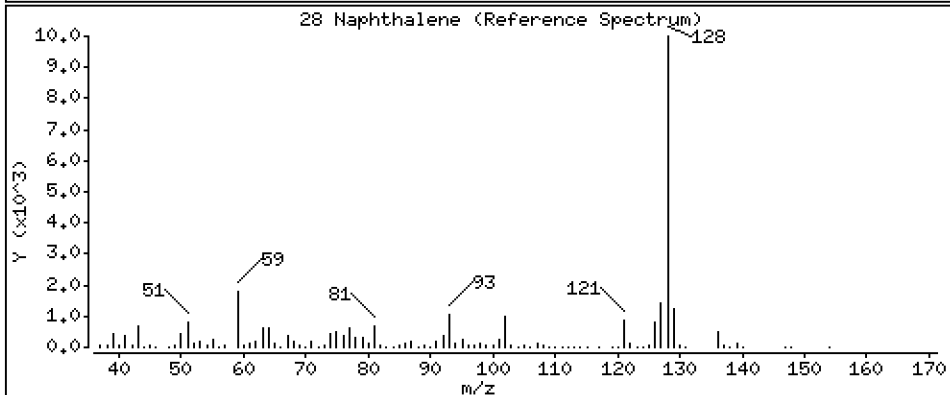
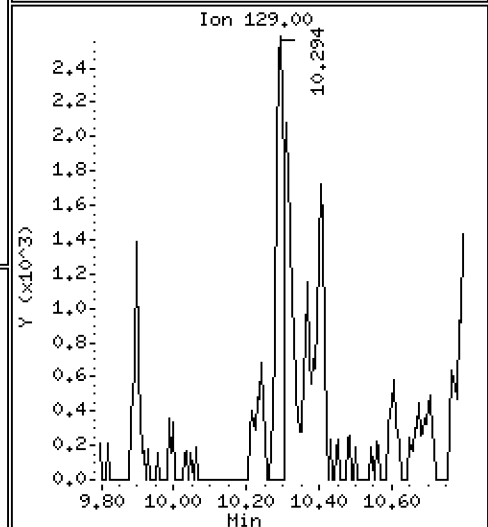
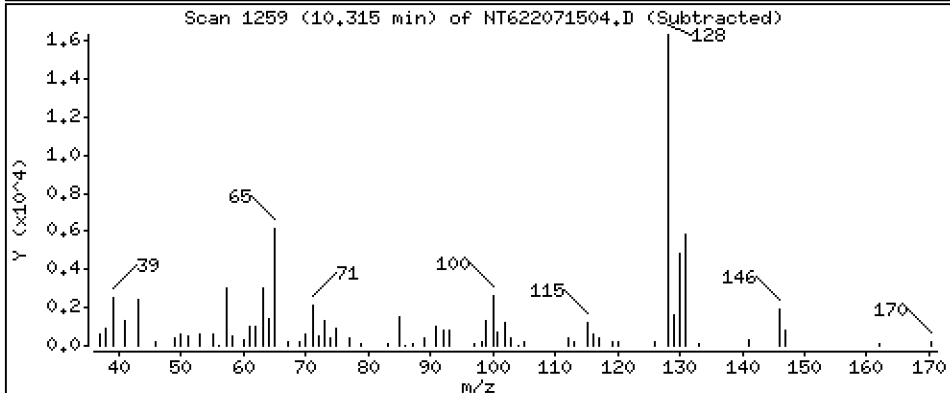
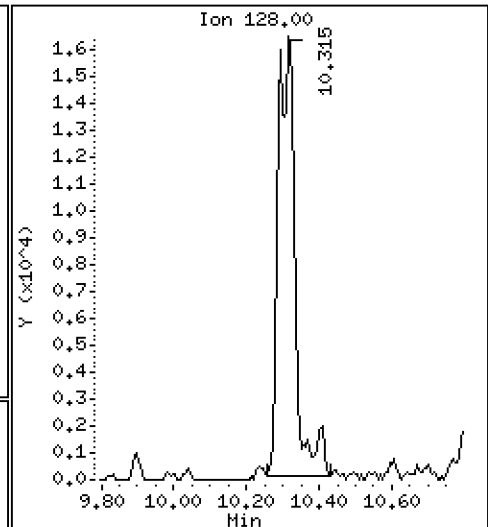
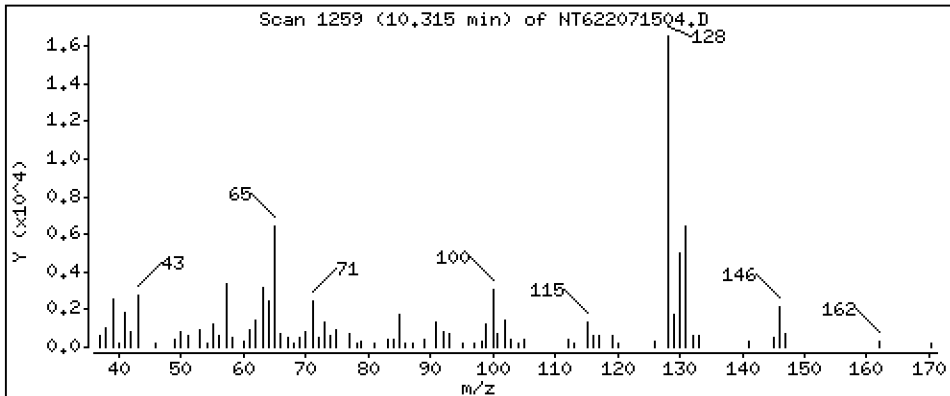
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

28 Naphthalene

Concentration: 17.13 ug/mL



Date : 15-JUL-2022 13:43

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02RE1,3

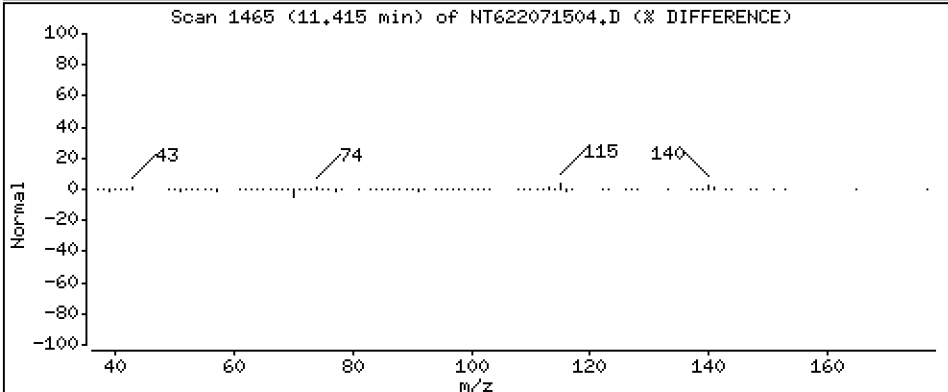
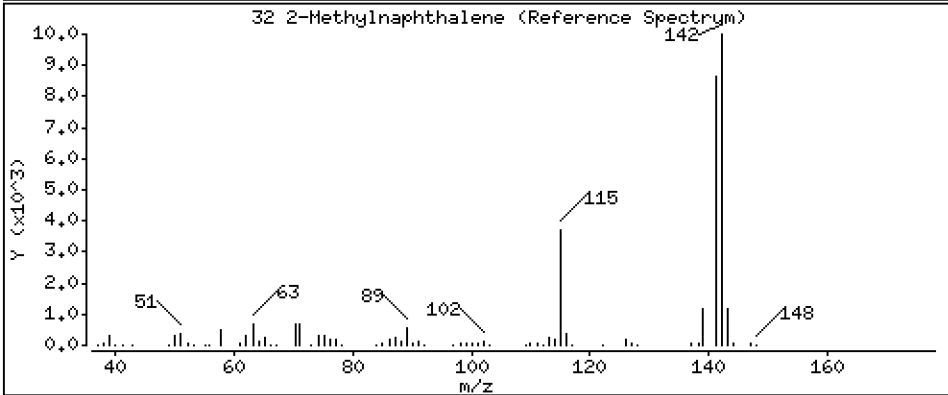
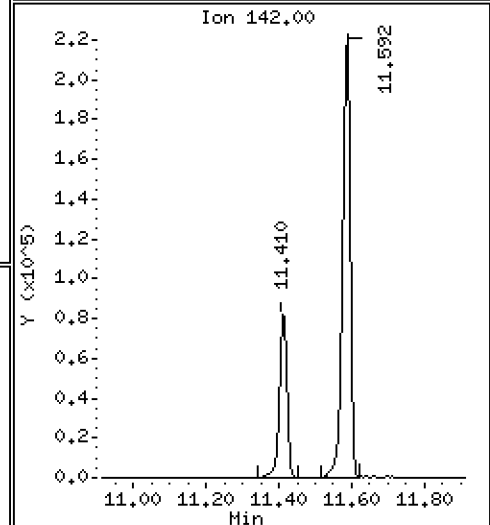
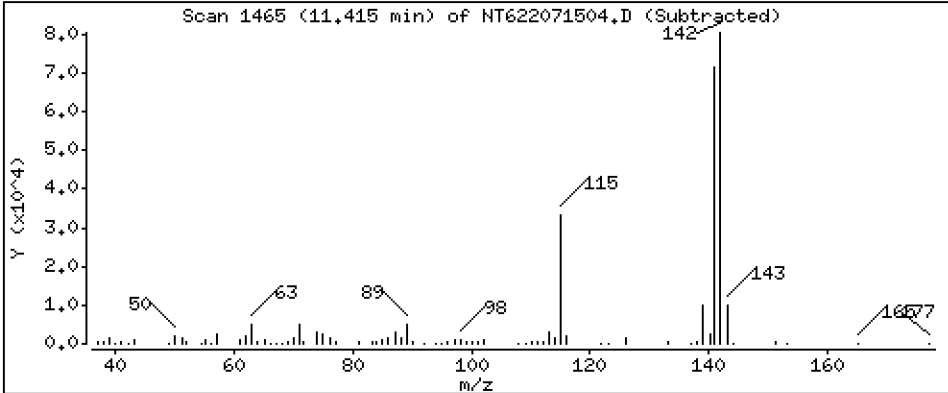
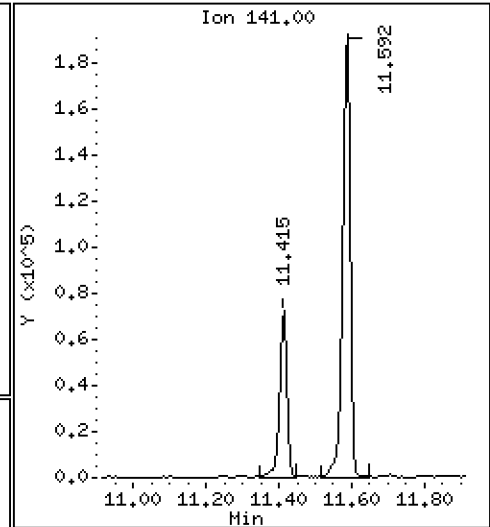
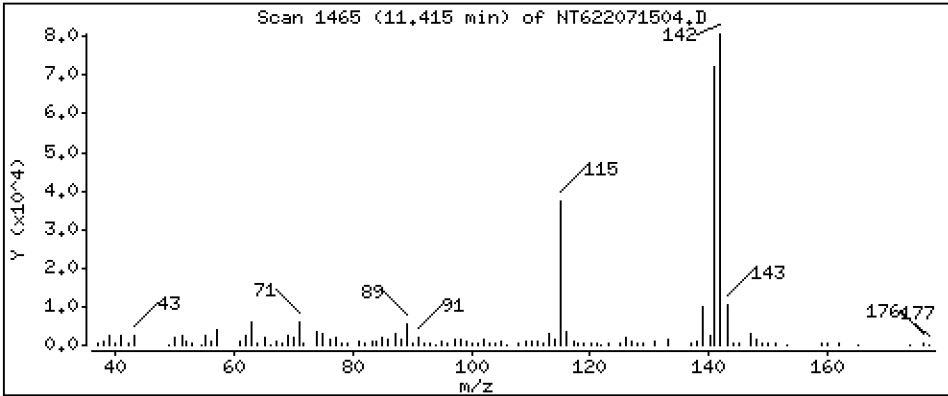
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

32 2-Methylnaphthalene

Concentration: 57.10 ug/mL



Date : 15-JUL-2022 13:43

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02RE1,3

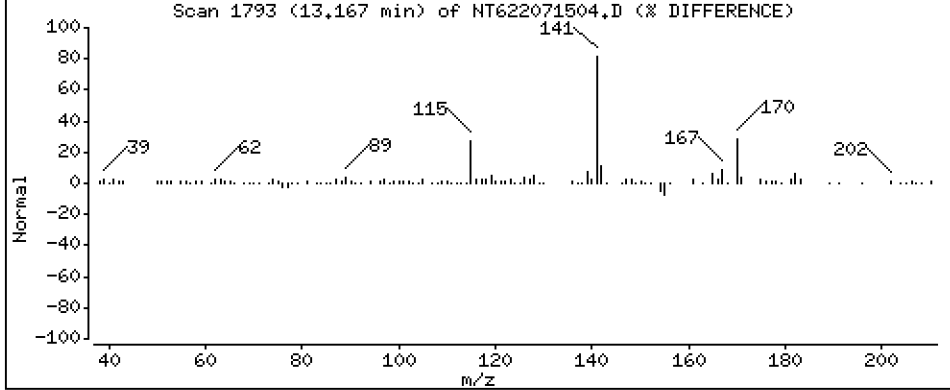
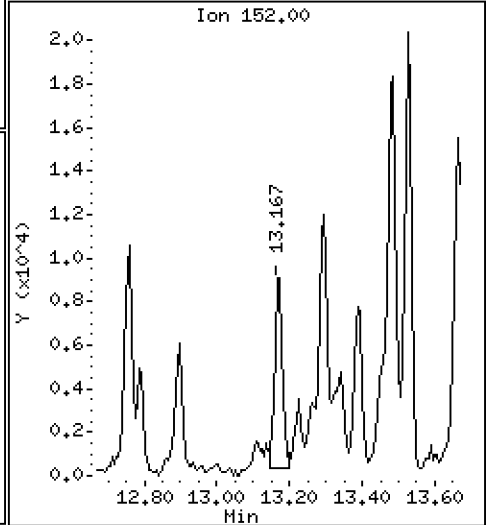
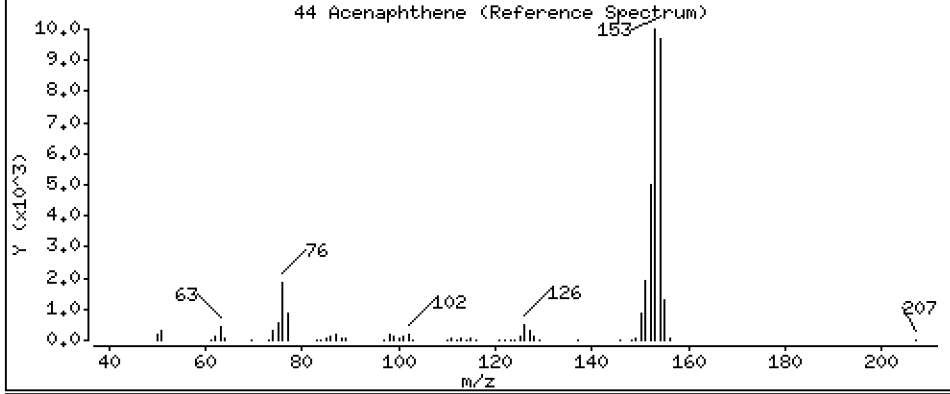
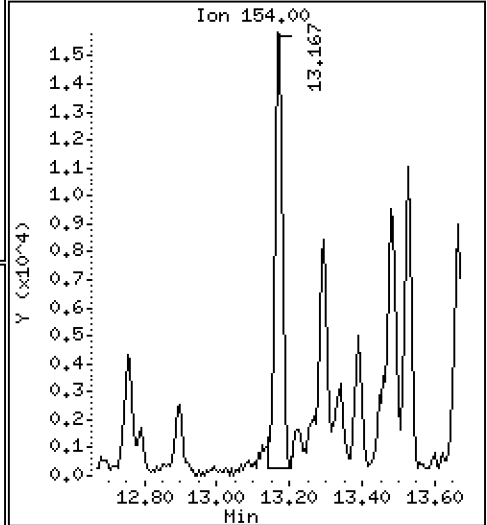
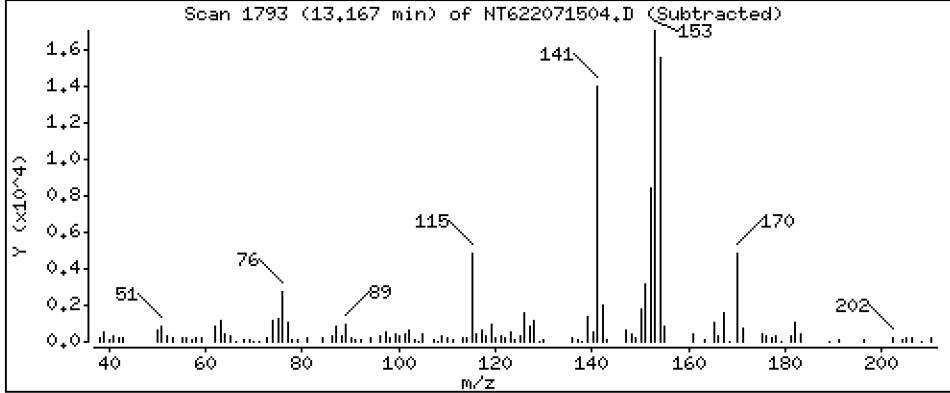
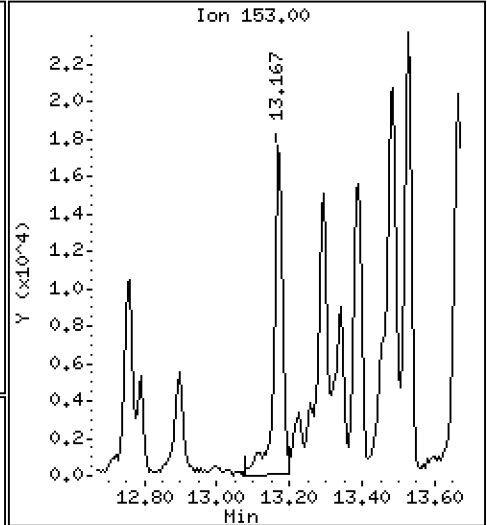
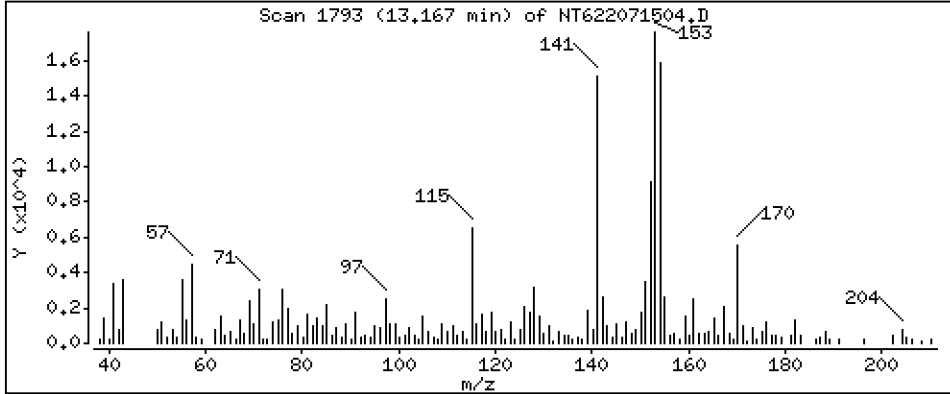
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

44 Acenaphthene

Concentration: 15.54 ug/mL



Date : 15-JUL-2022 13:43

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02RE1,3

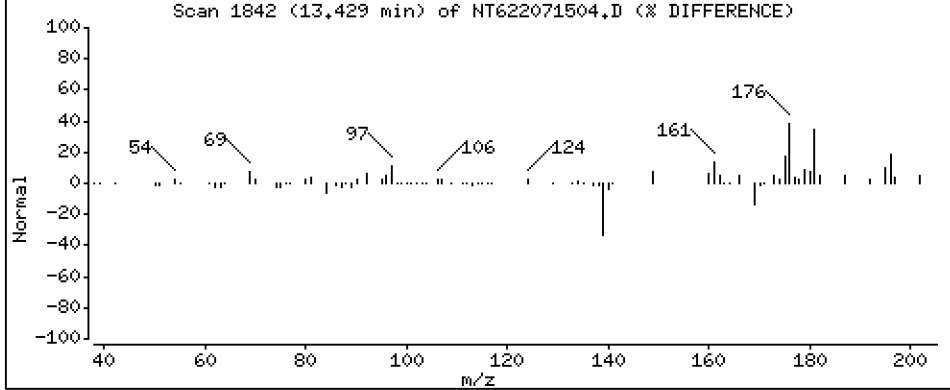
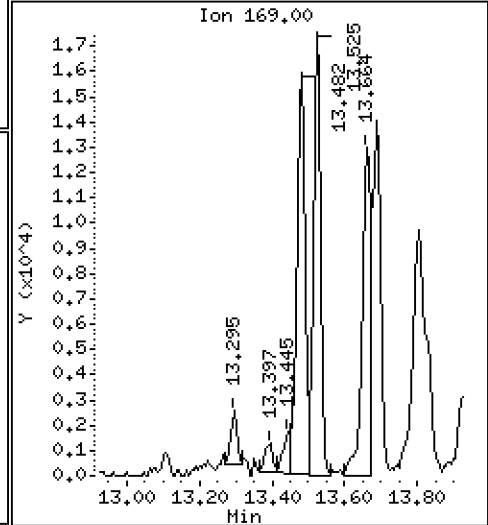
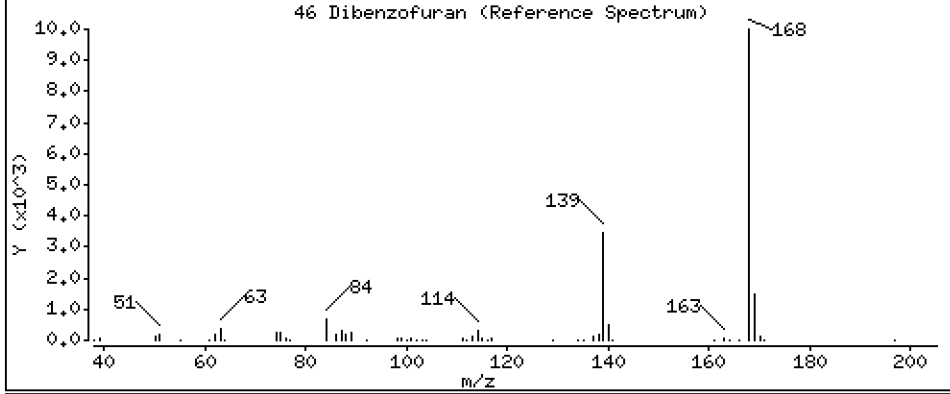
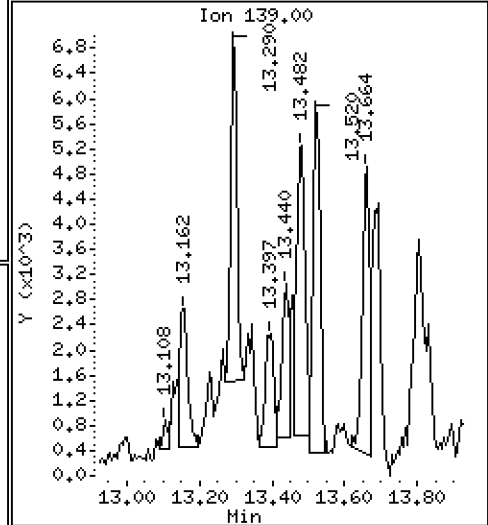
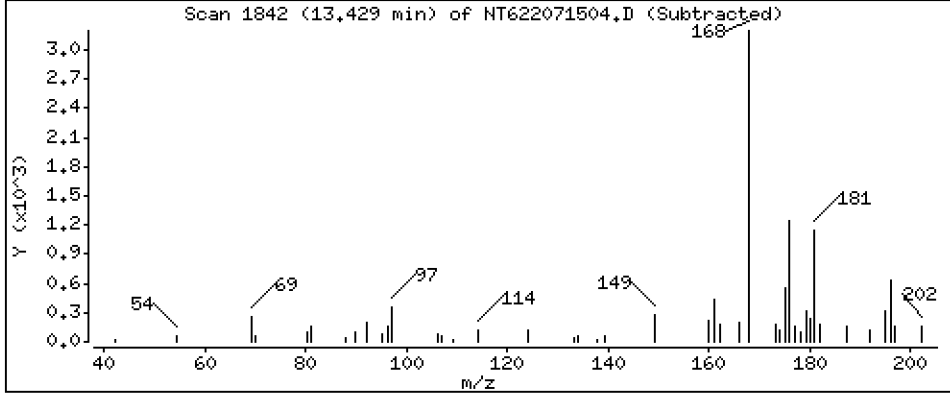
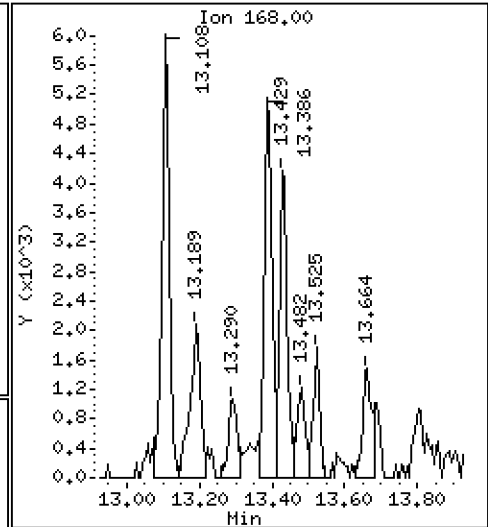
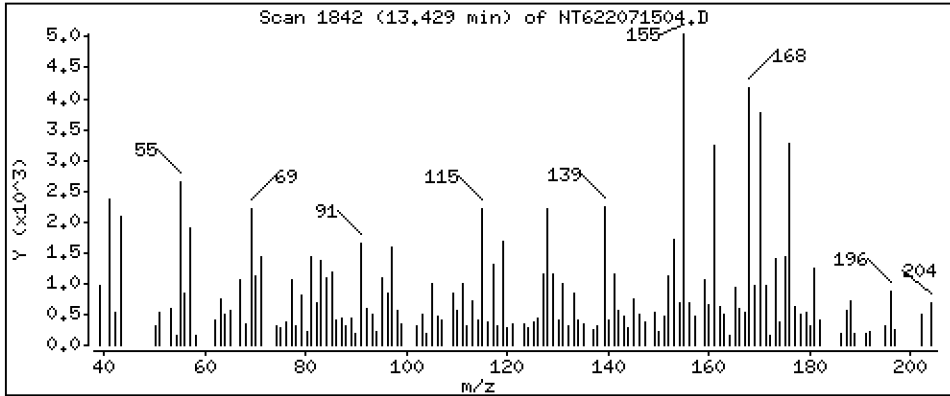
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

46 Dibenzofuran

Concentration: 2,277 ug/mL



Date : 15-JUL-2022 13:43

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02RE1,3

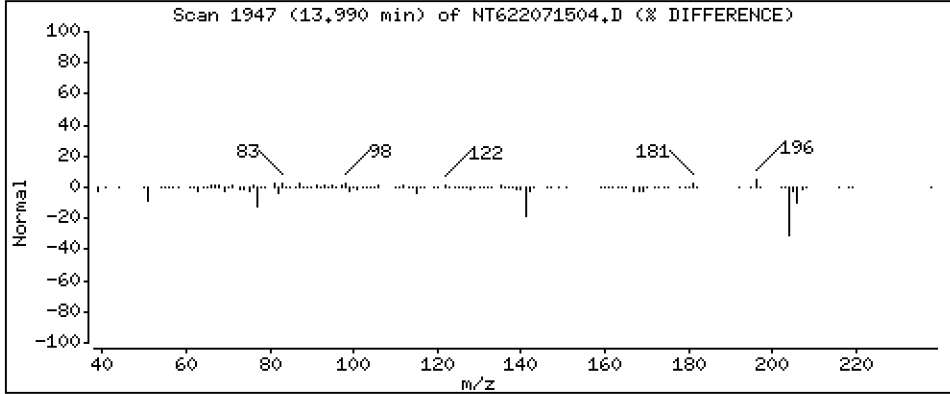
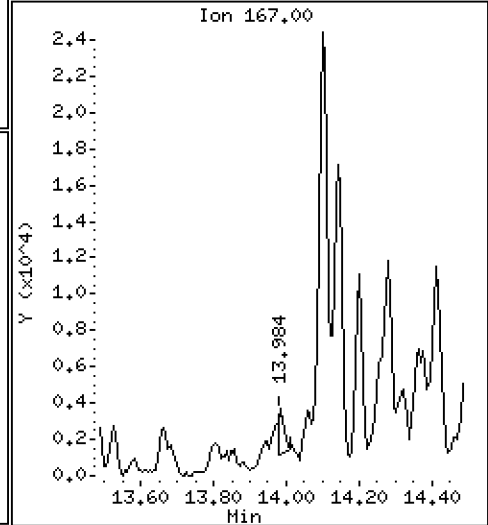
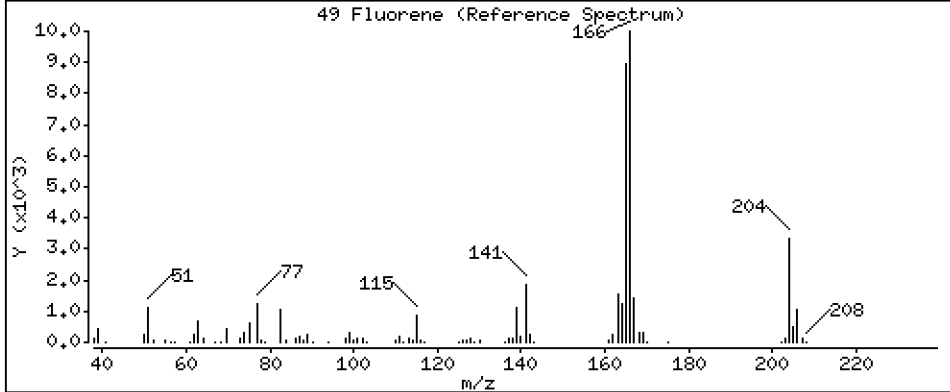
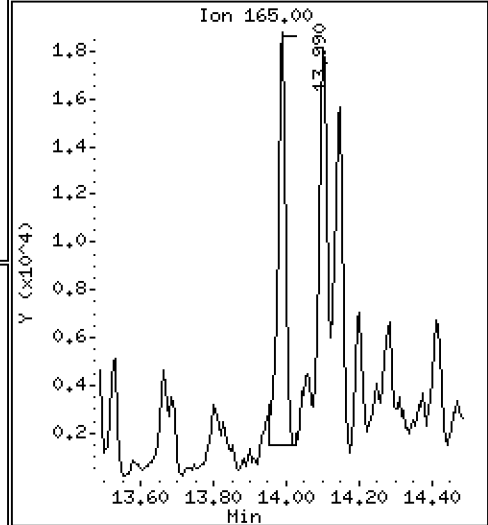
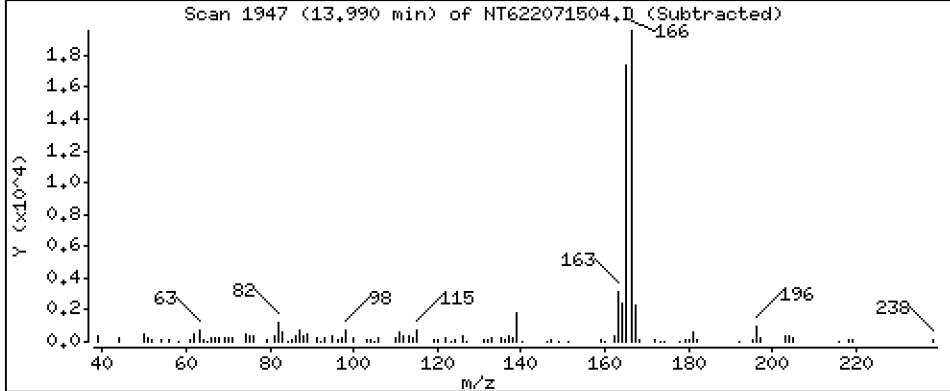
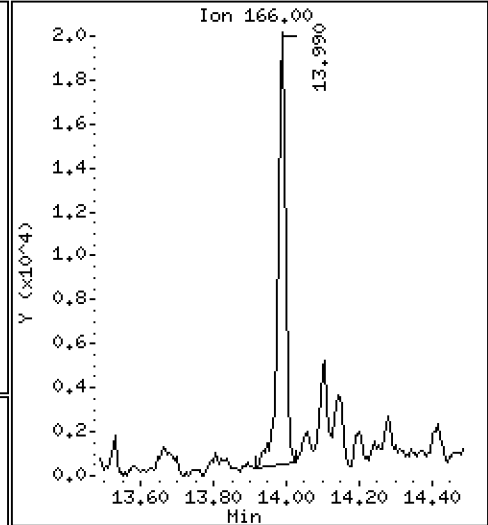
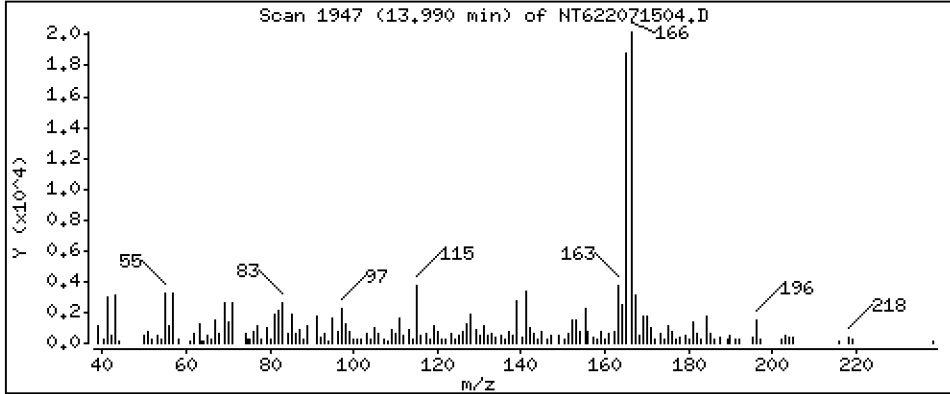
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

49 Fluorene

Concentration: 13.40 ug/mL



Date : 15-JUL-2022 13:43

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02RE1,3

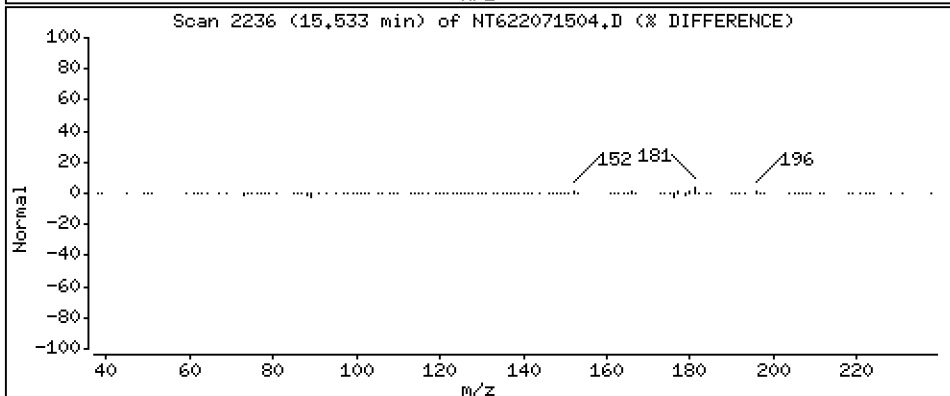
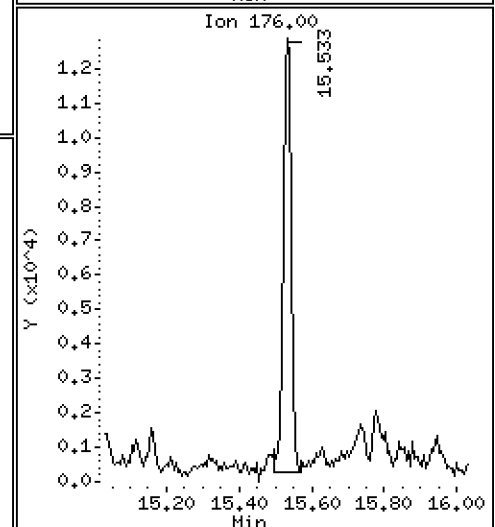
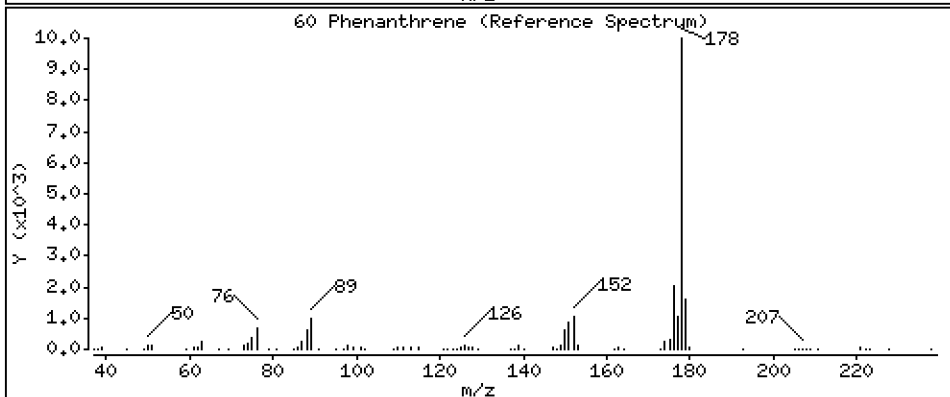
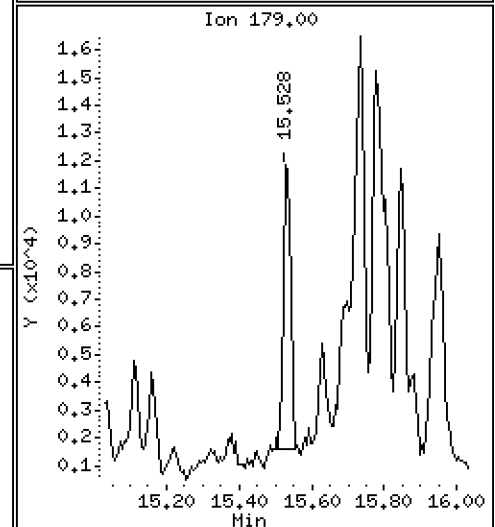
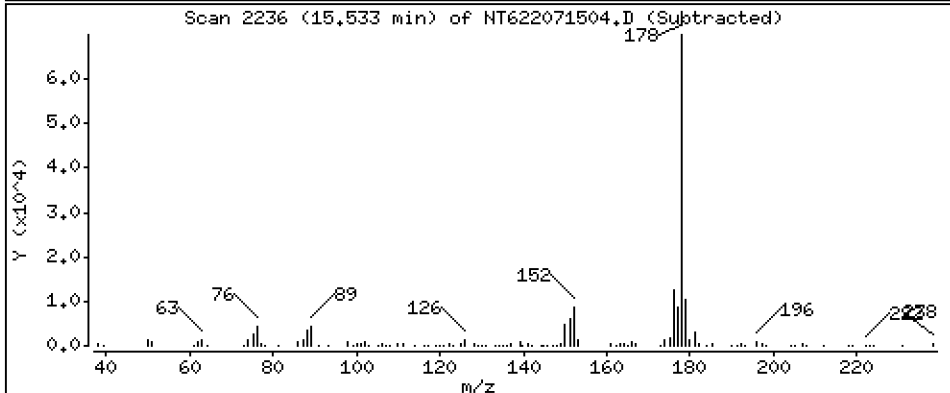
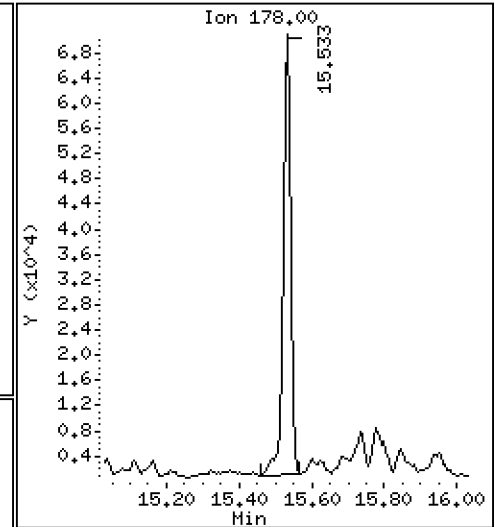
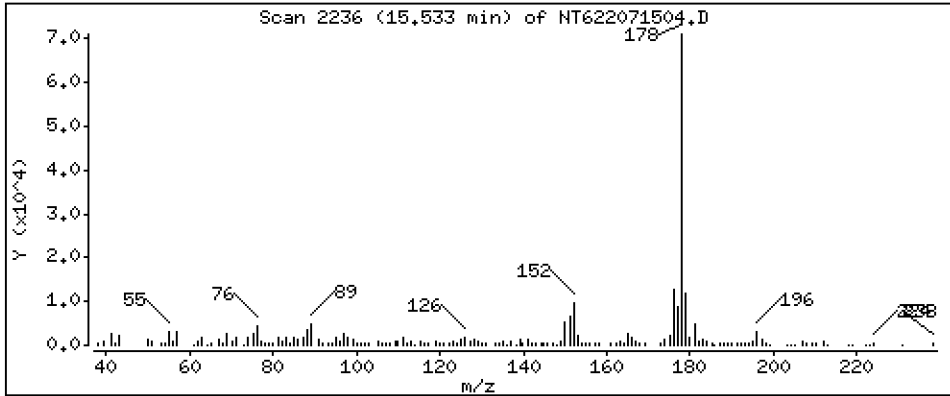
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

60 Phenanthrene

Concentration: 32.79 ug/mL



Date : 15-JUL-2022 13:43

Client ID:

Instrument: nt6.i

Sample Info: 2200121-02RE1,3

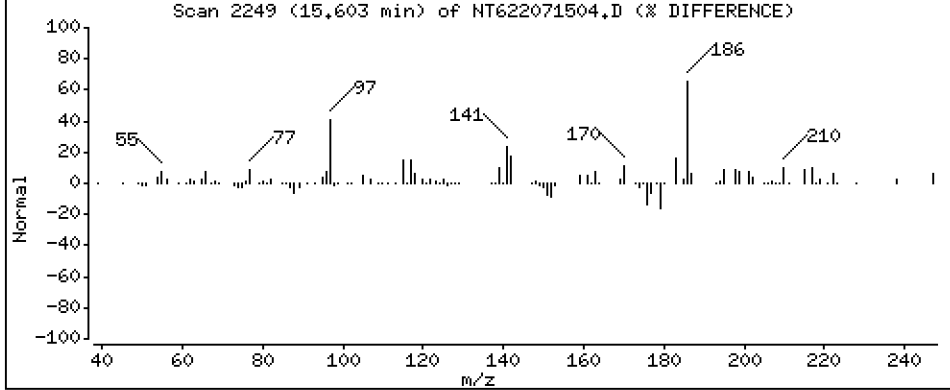
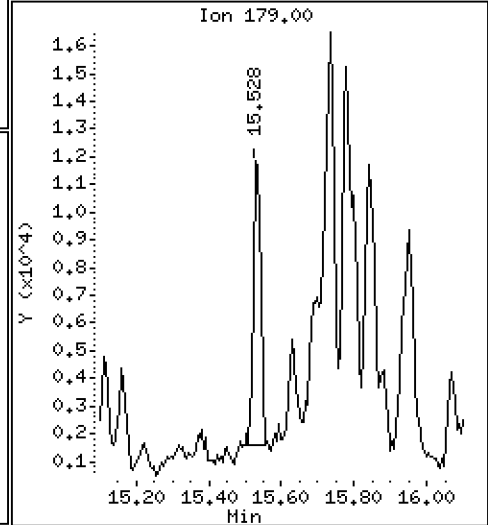
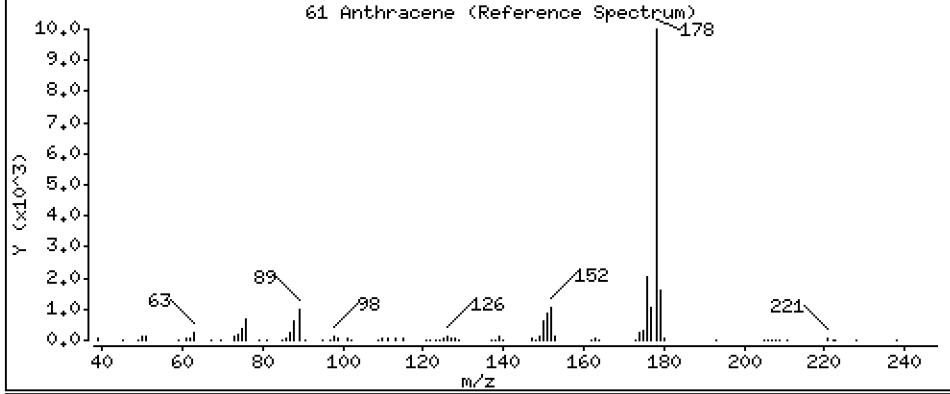
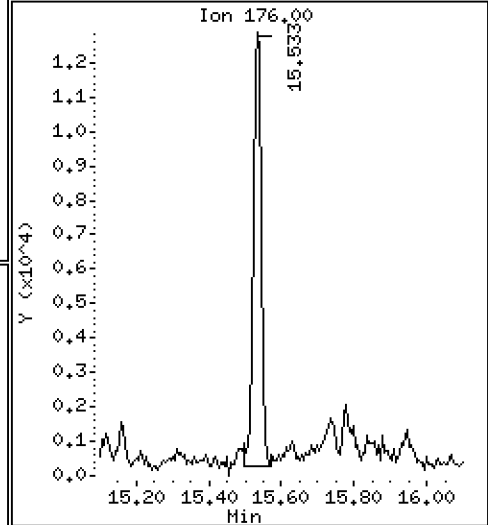
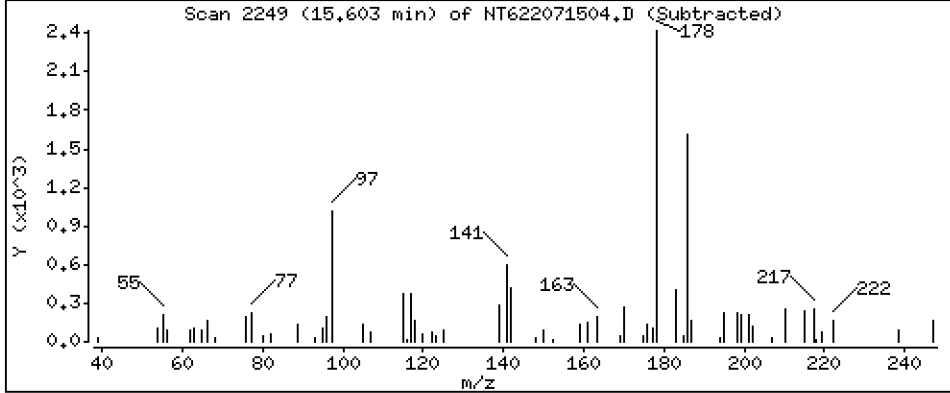
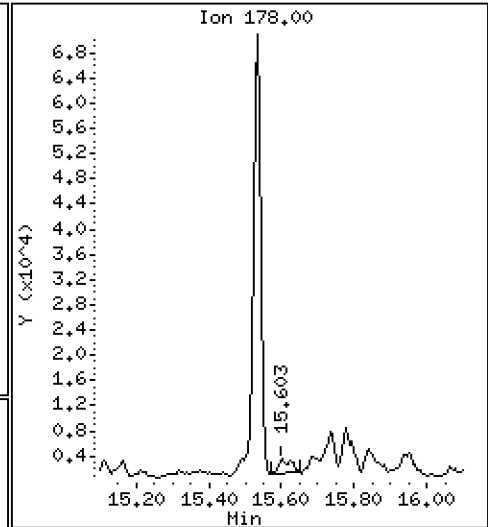
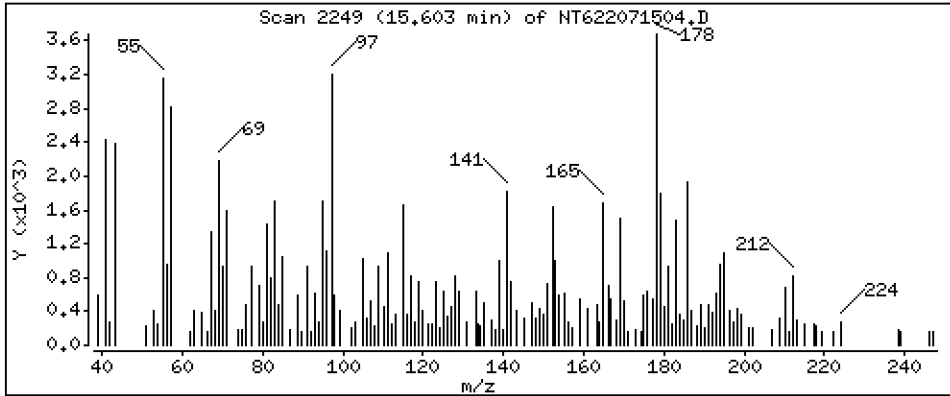
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

61 Anthracene

Concentration: 1,770 ug/mL



Date : 15-JUL-2022 13:43

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02RE1,3

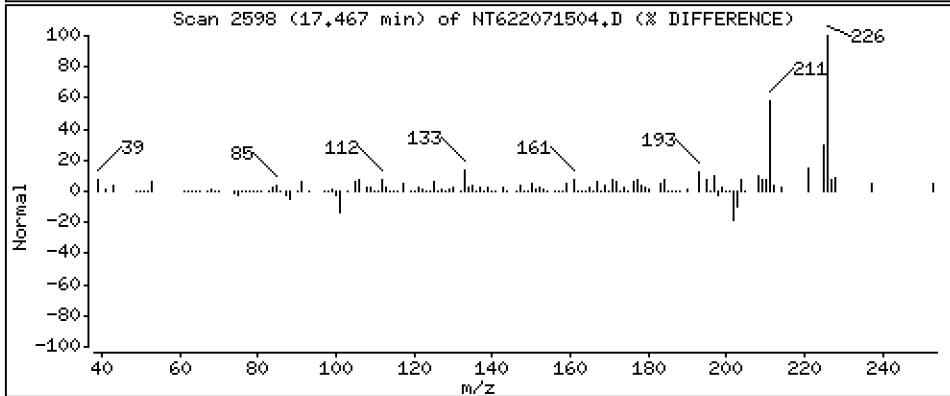
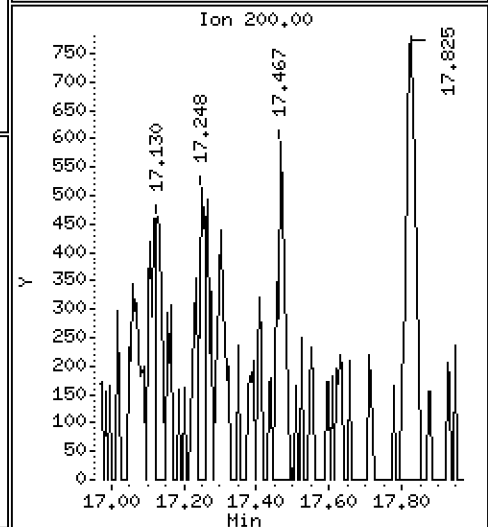
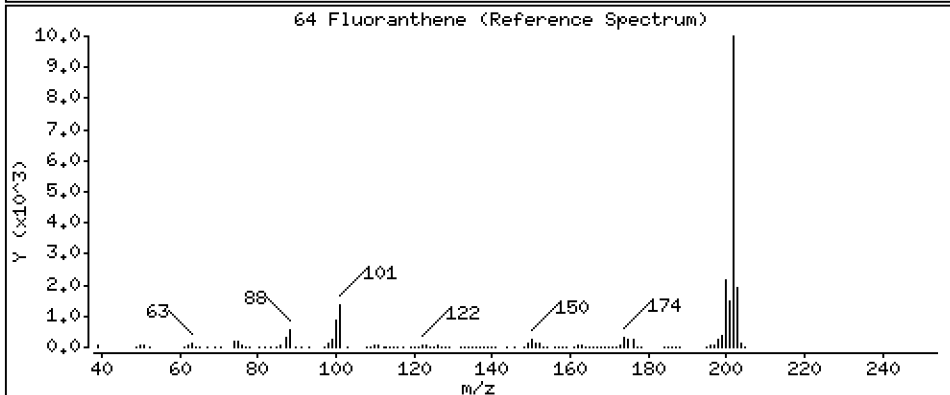
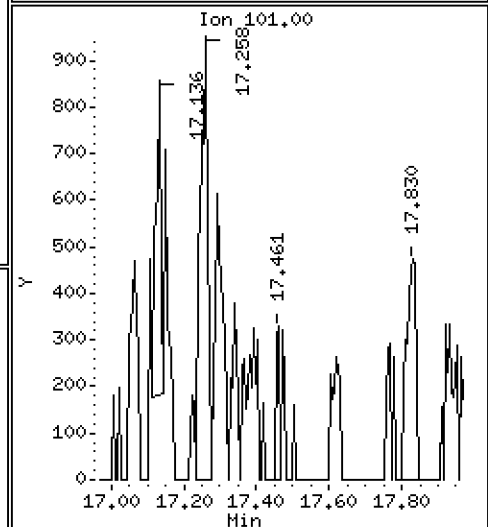
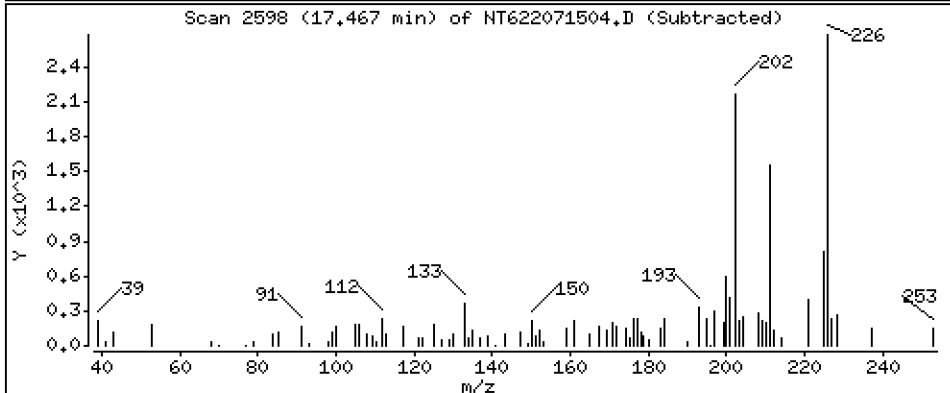
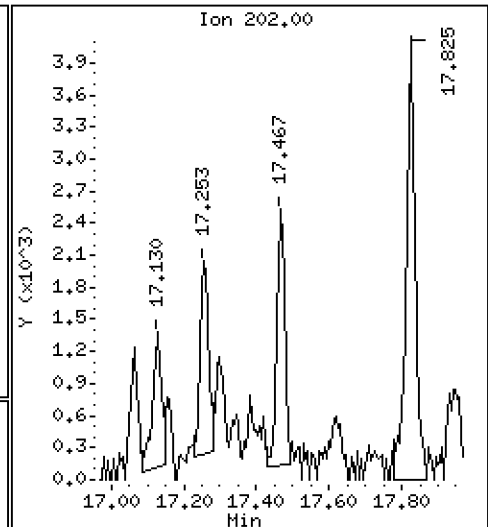
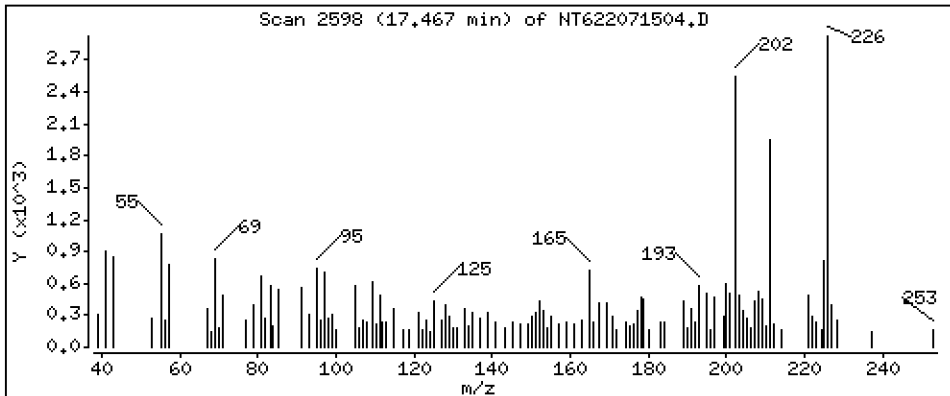
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

64 Fluoranthene

Concentration: 1.075 ug/mL



Date : 15-JUL-2022 13:43

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02RE1,3

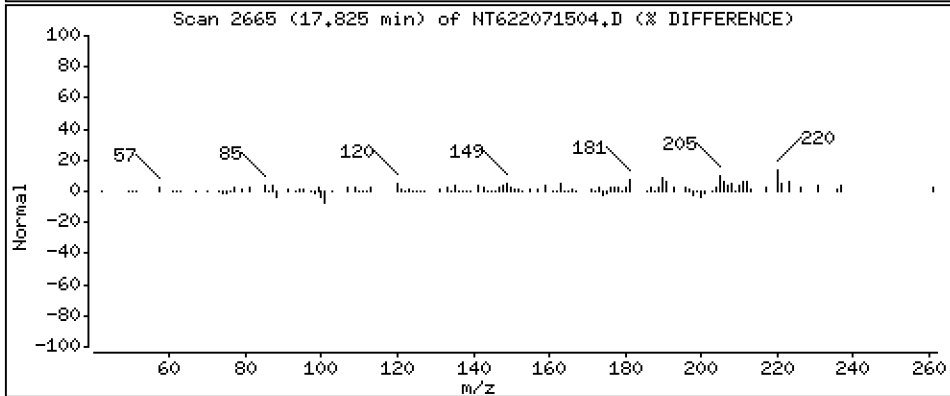
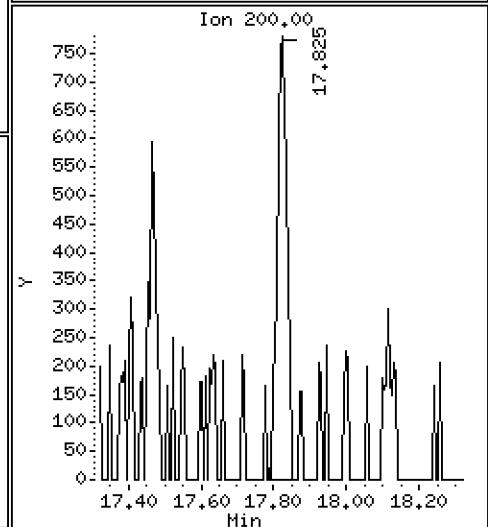
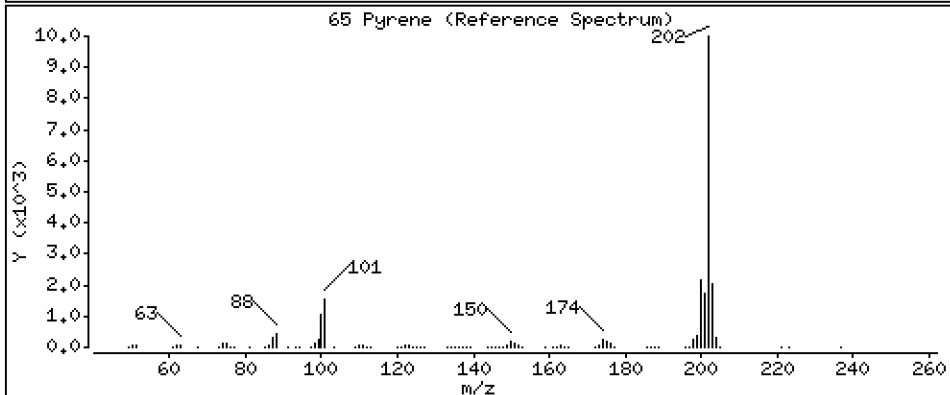
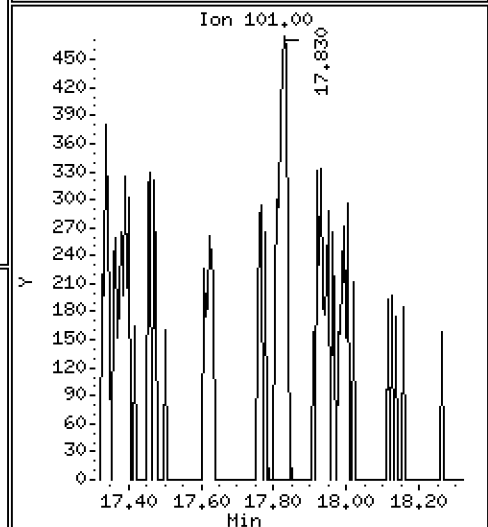
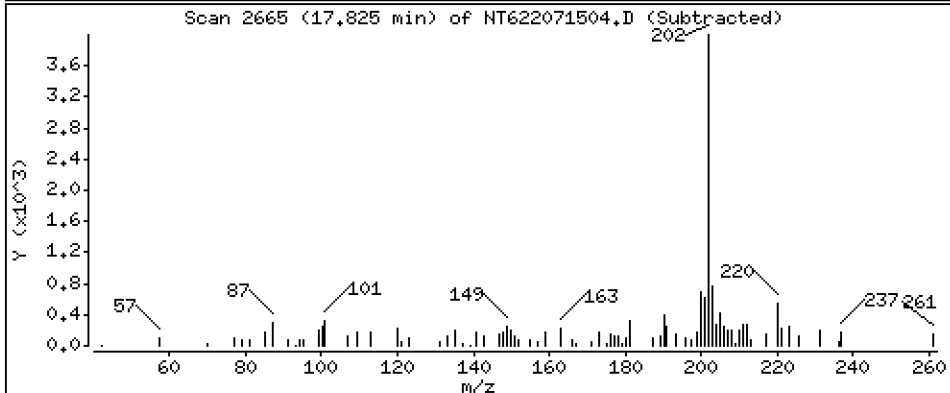
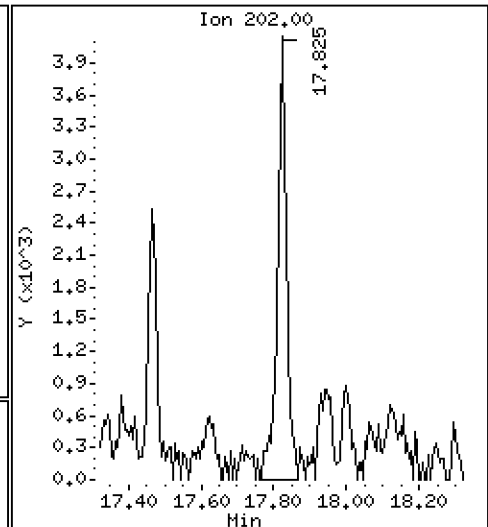
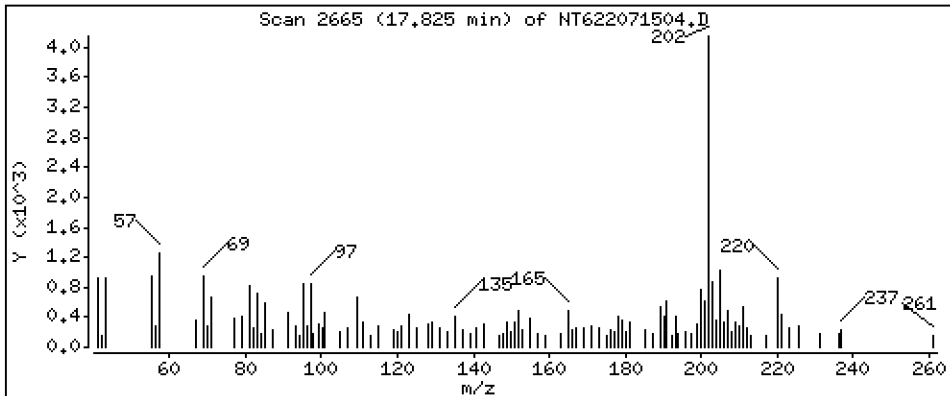
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

65 Pyrene

Concentration: 1,830 ug/mL



Date : 15-JUL-2022 13:43

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02RE1,3

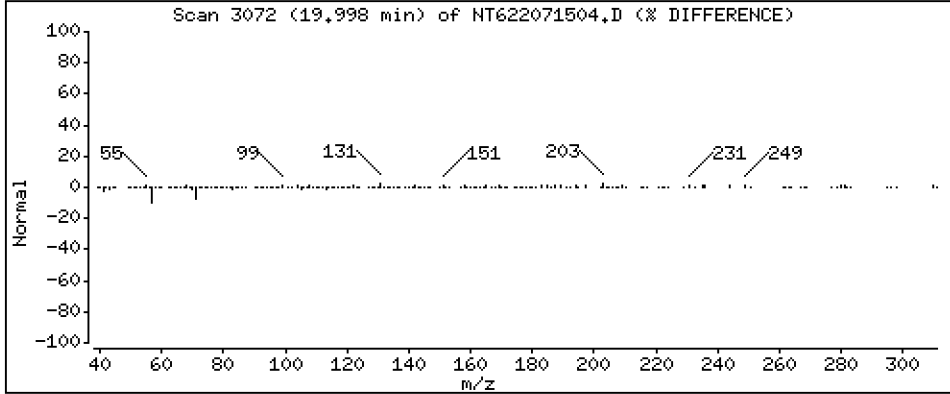
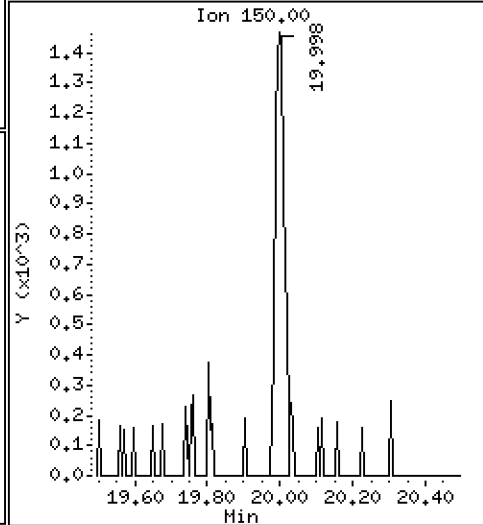
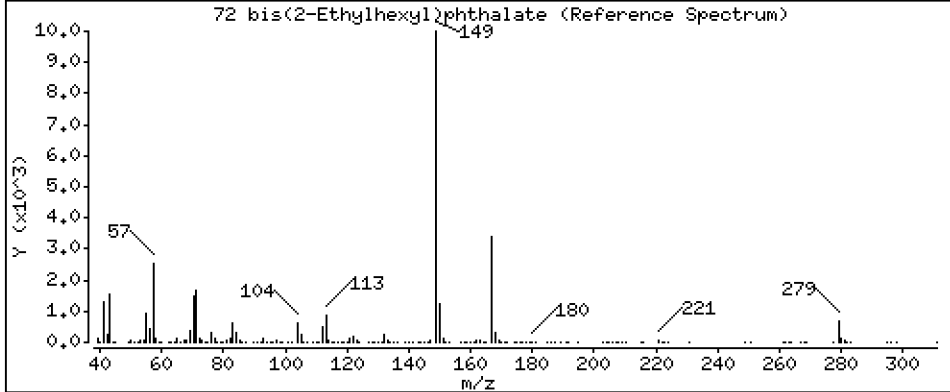
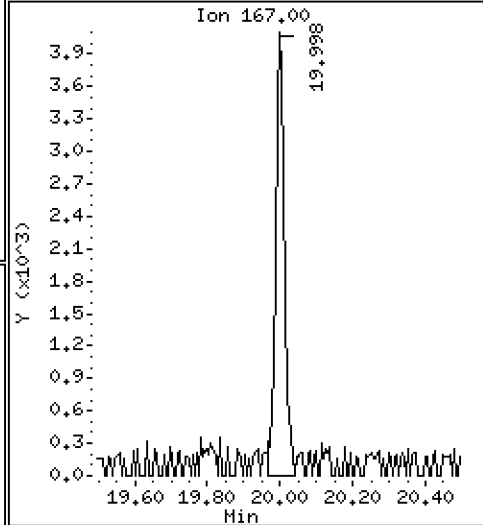
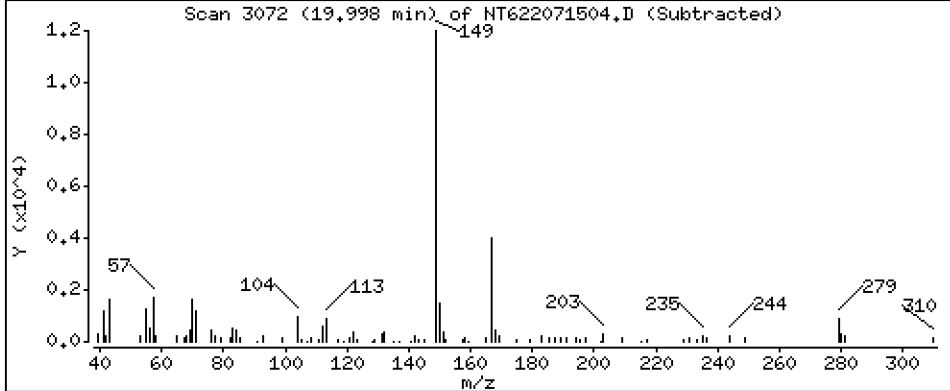
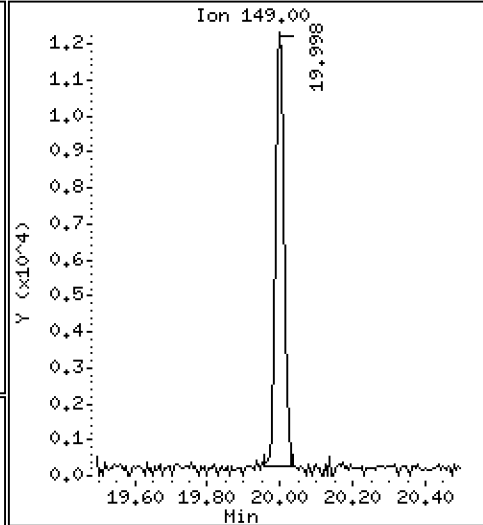
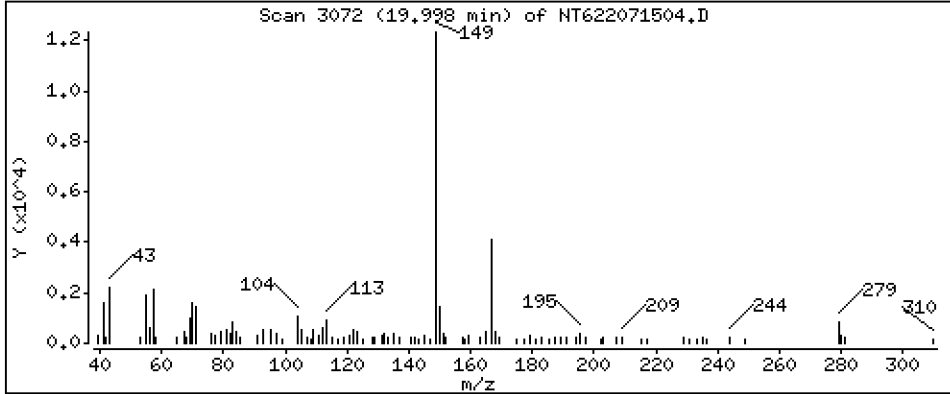
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

72 bis(2-Ethylhexyl)phthalate

Concentration: 9.274 ug/mL



Date : 15-JUL-2022 13:43

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-02RE1,3

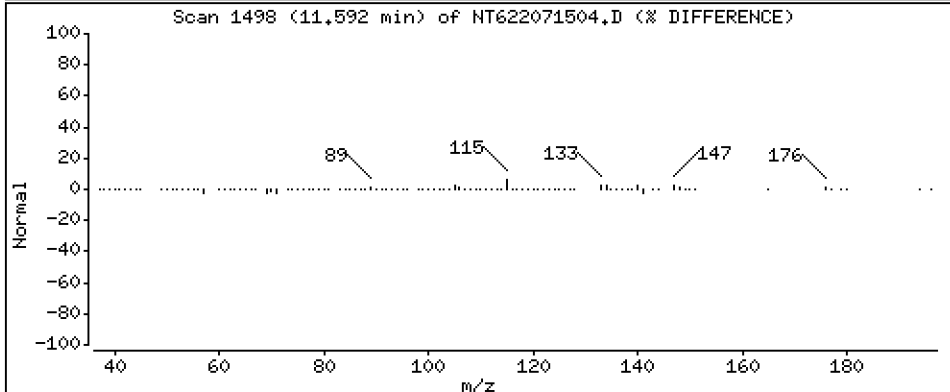
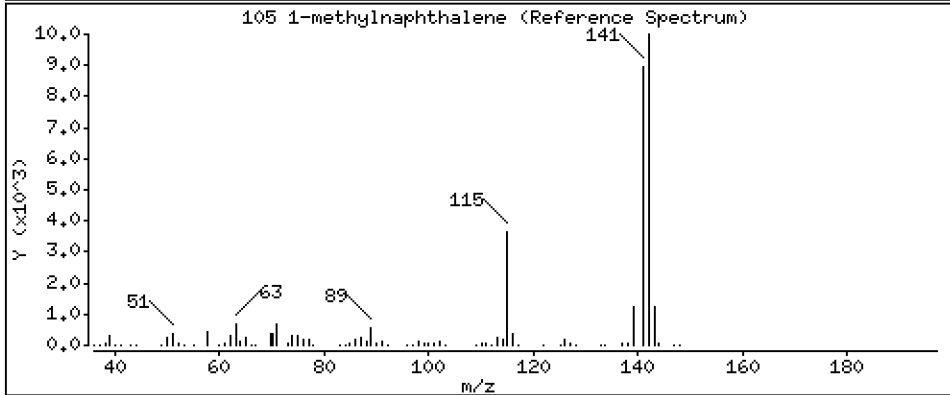
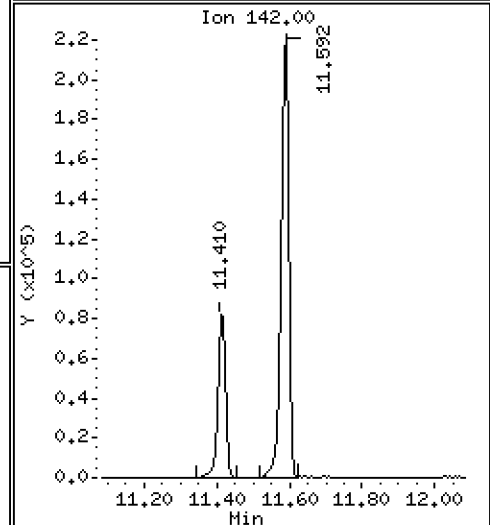
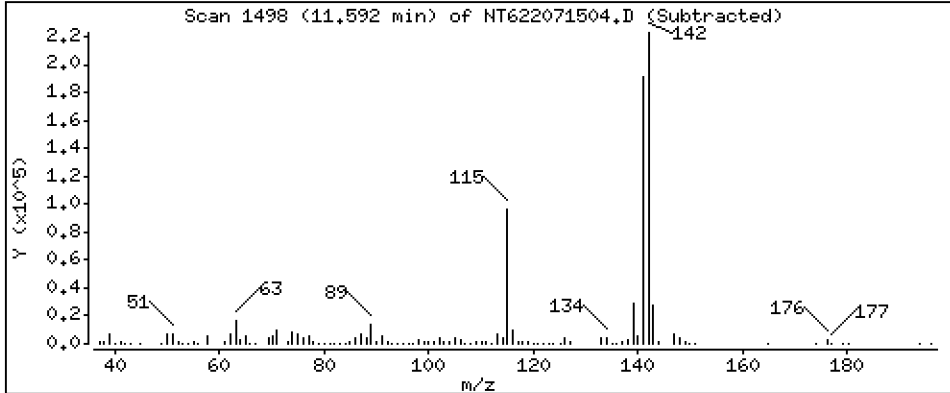
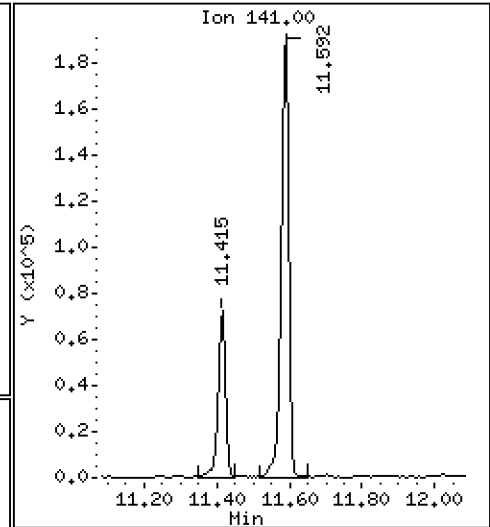
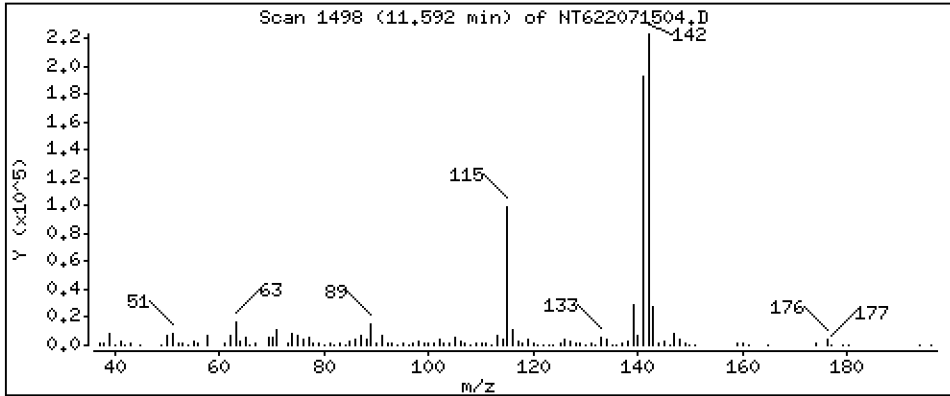
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

105 1-methylnaphthalene

Concentration: 167.6 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220715.b\NT622071504.D
 Lab Smp Id: 22G0121-02RE1
 Inj Date : 15-JUL-2022 13:43
 Operator : JZ Inst ID: nt6.i
 Smp Info : 22G0121-02RE1,3
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220715.b\SW84620220516.m
 Meth Date : 15-Jul-2022 17:26 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 4
 Dil Factor: 3.00000
 Integrator: HP RTE Compound Sublist: LLM DL.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.293	6.297	(0.765)	39494	11.0067	33.02
\$ 2 Phenol-d5	99		7.804	7.813	(0.949)	46909	11.4284	34.29
3 Phenol	94		Compound Not Detected.					
\$ 5 2-Chlorophenol-d4	132		7.932	7.942	(0.964)	43083	11.6129	34.84
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		8.226	8.230	(1.000)	66386	20.0000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		8.525	8.524	(1.036)	18508	6.97086	20.91
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		8.520	8.513	(1.036)	494	0.22170	0.6651
14 2,2'-oxybis(1-Chloropropane)	45		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		9.150	9.154	(0.892)	29240	8.51277	25.54
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		9.941	10.057	(0.969)	18804	7.76471	23.29 (MH)
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		10.261	10.265	(1.000)	223683	20.0000	
28 Naphthalene	128		10.315	10.297	(1.005)	53680	5.70960	17.13 (M)
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	141		11.415	11.413	(1.112)	102174	19.0318	57.10
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		12.050	12.049	(0.918)	56529	7.57838	22.74
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152							
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		13.124	13.117	(1.000)	122617	20.0000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		13.167	13.170	(1.003)	29577	5.18105	15.54 (M)
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		13.428	13.427	(1.023)	6263	0.75915	2.277
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		13.989	13.988	(1.066)	29476	4.46636	13.40 (M)
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		14.417	14.415	(1.098)	16203	15.5303	46.59
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		15.495	15.494	(1.000)	224200	20.0000	
60 Phenanthrene	178		15.533	15.531	(1.002)	101018	10.9309	32.79 (M)
61 Anthracene	178		15.602	15.601	(1.007)	5455	0.59011	1.770 (M)
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		17.466	17.470	(1.127)	3744	0.35846	1.075
65 Pyrene	202		17.824	17.823	(0.900)	7346	0.61014	1.830 (M)
\$ 66 Terphenyl-d14	244		18.134	18.132	(0.916)	56405	6.18706	18.56 (M)
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228							
* 69 Chrysene-d12	240		19.806	19.809	(1.000)	191768	20.0000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228							
72 bis(2-Ethylhexyl)phthalate	149		19.998	19.996	(0.955)	19944	3.09130	9.274
* 134 Di-n-octylphthalate-d4	153		20.933	20.931	(1.000)	278876	20.0000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252							
75 Benzo(k)fluoranthene	252							
76 Benzo(a)pyrene	252							
* 77 Perylene-d12	264		21.974	21.973	(1.000)	211160	20.0000	
78 Indeno(1,2,3-cd)pyrene	276							
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276							
90 N-Nitrosodimethylamine	74							
103 Pyridine	79							
105 1-methylnaphthalene	141		11.591	11.584	(1.130)	283132	55.8769	167.6
111 Azobenzene (1,2-DP-Hydrazine)	77							
187 Total Benzofluoranthenes	252							
144 alpha-Terpineol	59							

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 15-JUL-2022
 Lab File ID: NT622071504.D Calibration Time: 10:24
 Lab Smp Id: 22G0121-02RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220715.b\SW84620220516.m
 Misc Info: 22-

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	52019	26010	104038	66386	27.62
27 Naphthalene-d8	183312	91656	366624	223683	22.02
42 Acenaphthene-d10	120091	60046	240182	122617	2.10
59 Phenanthrene-d10	221698	110849	443396	224200	1.13
69 Chrysene-d12	186782	93391	373564	191768	2.67
134 Di-n-octylphthala	262753	131377	525506	278876	6.14
77 Perylene-d12	189769	94885	379538	211160	11.27

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.23	7.73	8.73	8.23	-0.05
27 Naphthalene-d8	10.27	9.77	10.77	10.26	-0.04
42 Acenaphthene-d10	13.12	12.62	13.62	13.12	0.05
59 Phenanthrene-d10	15.49	14.99	15.99	15.50	0.01
69 Chrysene-d12	19.81	19.31	20.31	19.81	-0.02
134 Di-n-octylphthala	20.93	20.43	21.43	20.93	0.01
77 Perylene-d12	21.97	21.47	22.47	21.97	0.01

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

REVIEW SUMMARY FOR FILE - NT622071504.D

Lab ID: 22G0121-02RE1
nt6.i, SW84620220516.m, 15-JUL-2022 13:43

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

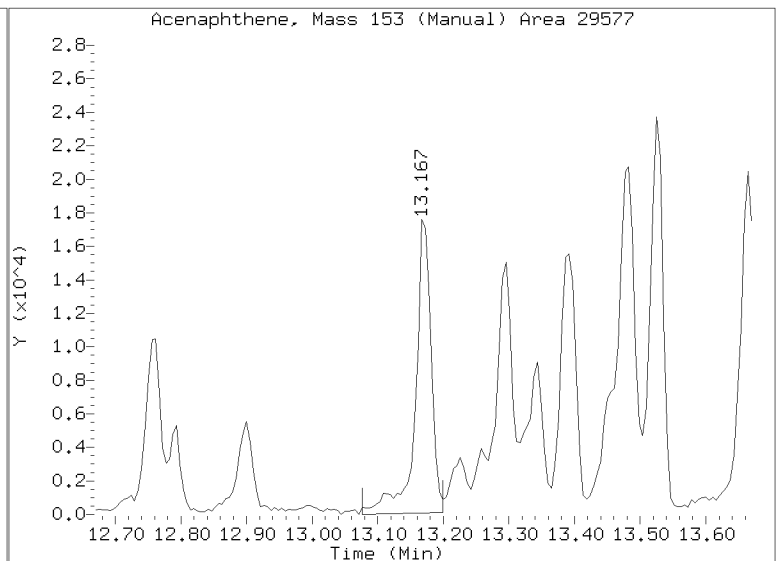
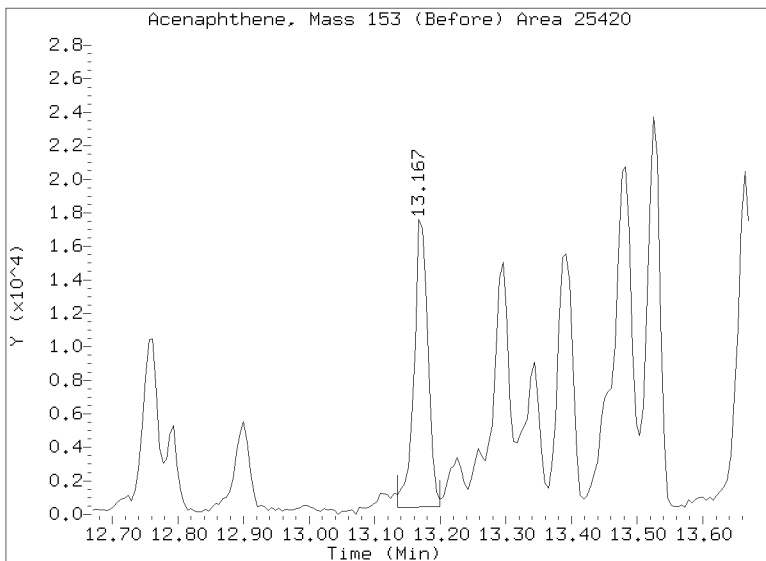
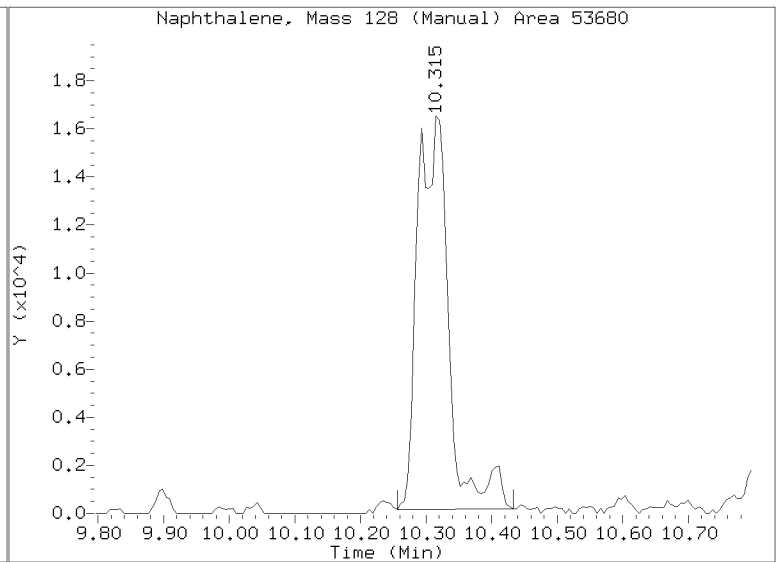
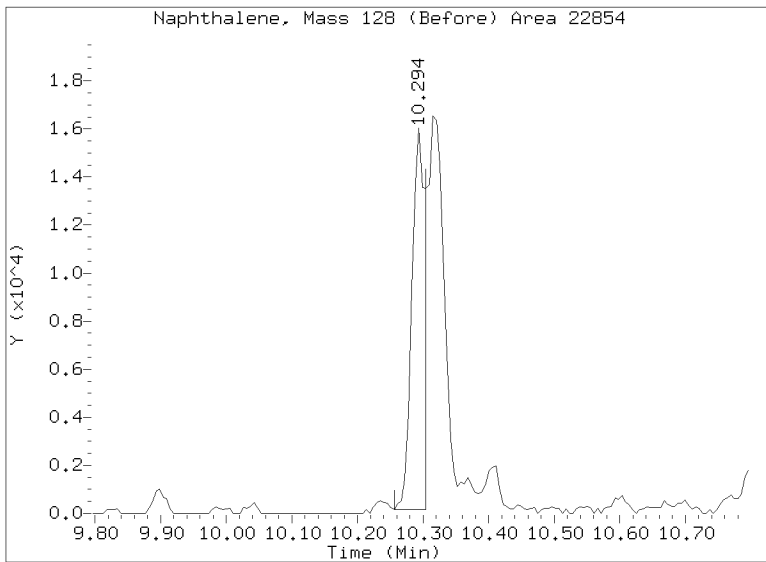
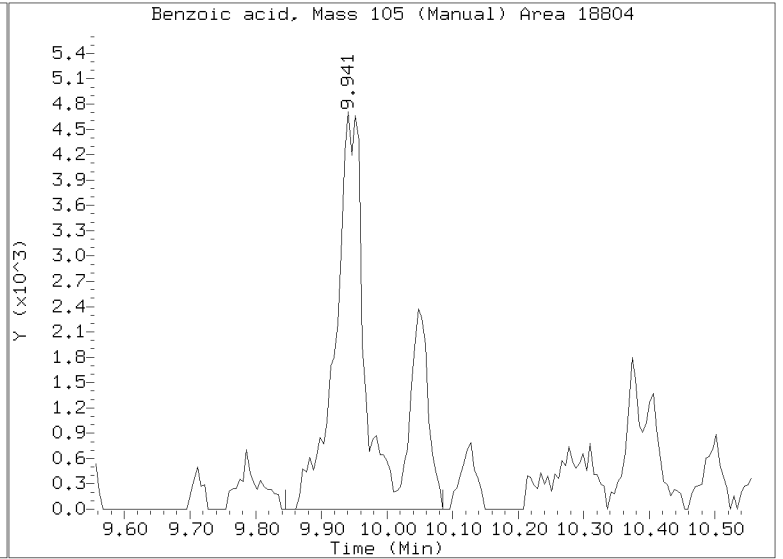
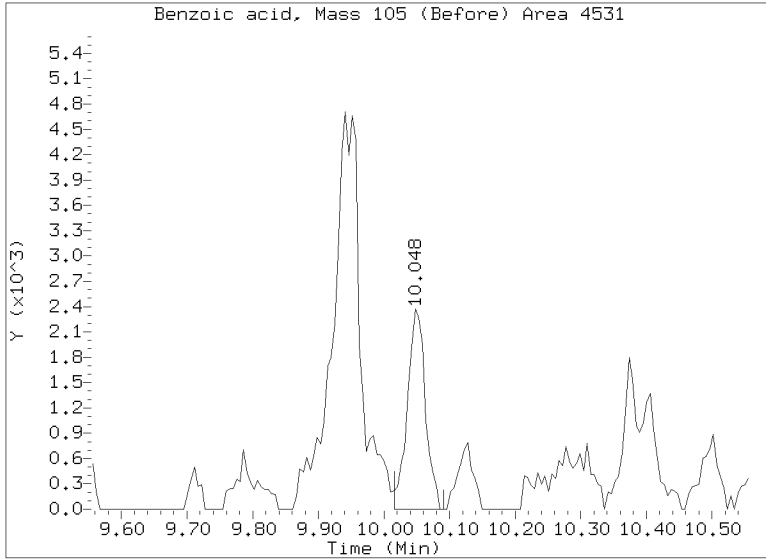
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On Column LOD for nt6.i, SW84620220516.m, LLMDL.sub = 0.2000

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

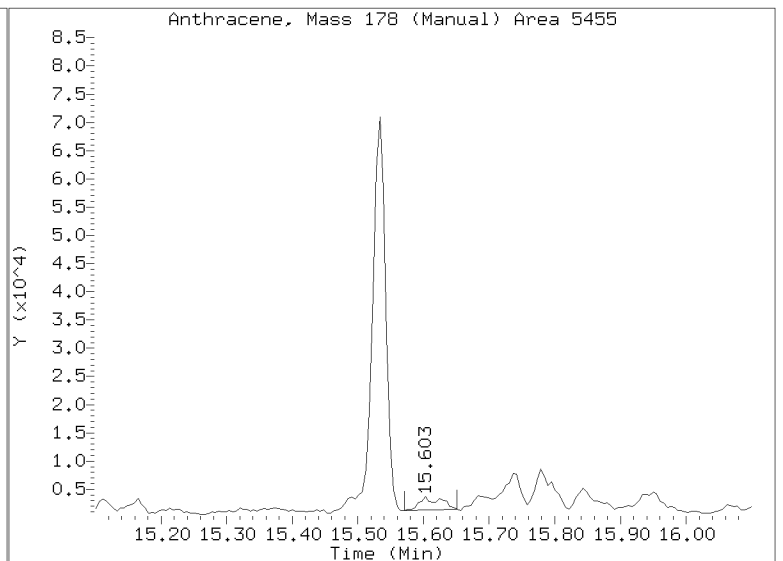
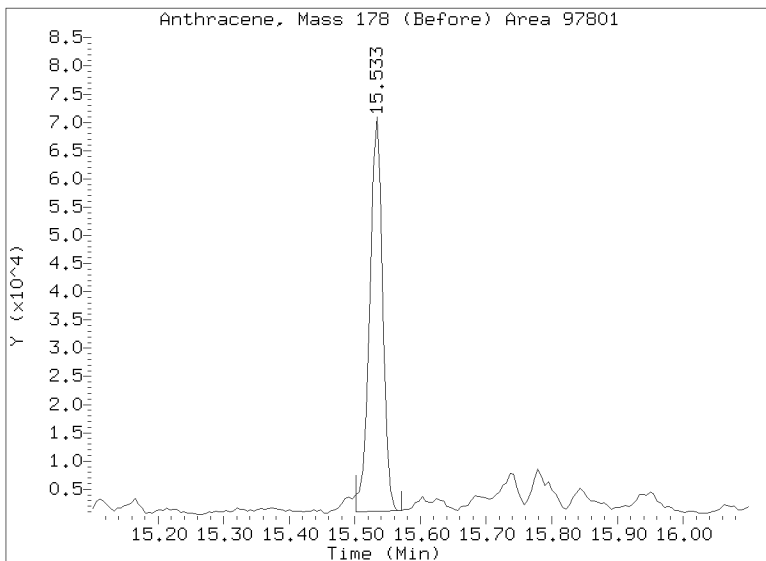
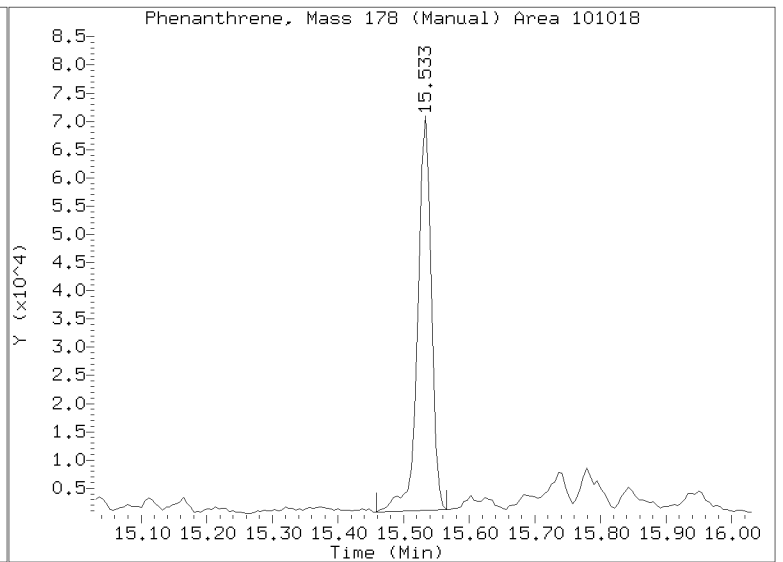
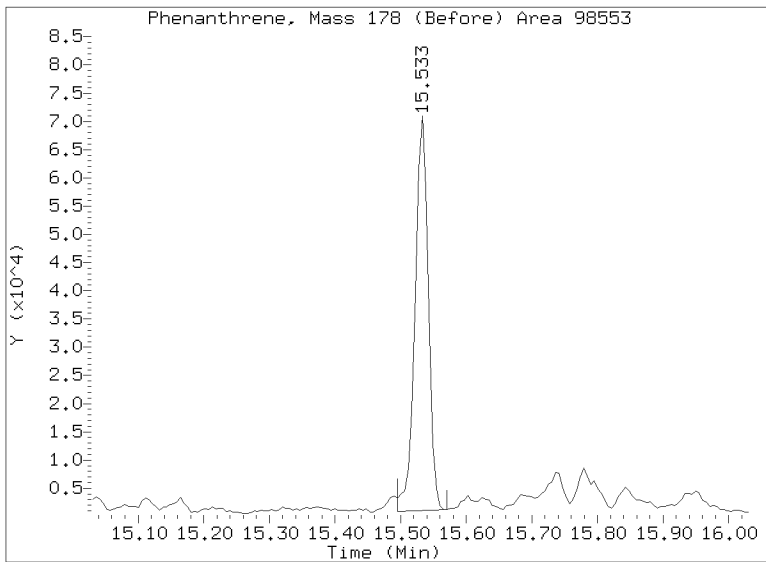
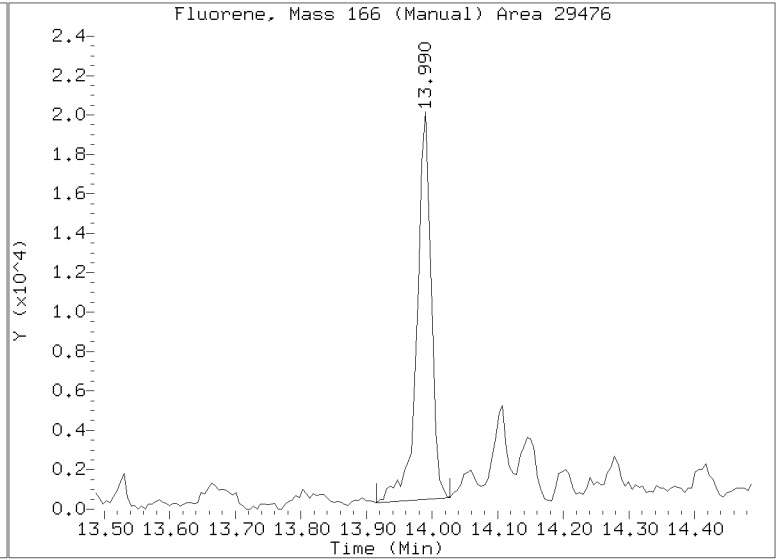
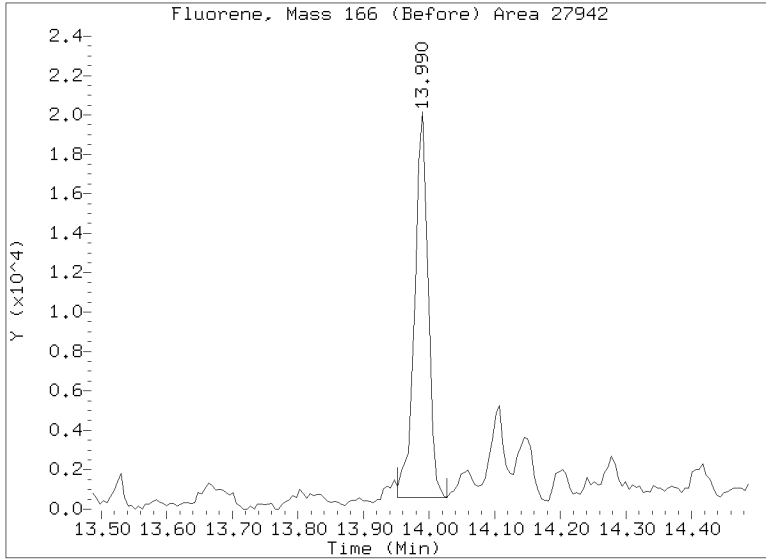
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Injection Date: 15-JUL-2022 13:43
Lab ID:22G0121-02RE1 Client ID:
Report Date: 07/15/2022 17:38



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt6.i/20220715.b/NT622071504.D
Injection Date: 15-JUL-2022 13:43
Lab ID:22G0121-02RE1 Client ID:
Report Date: 07/15/2022 17:38



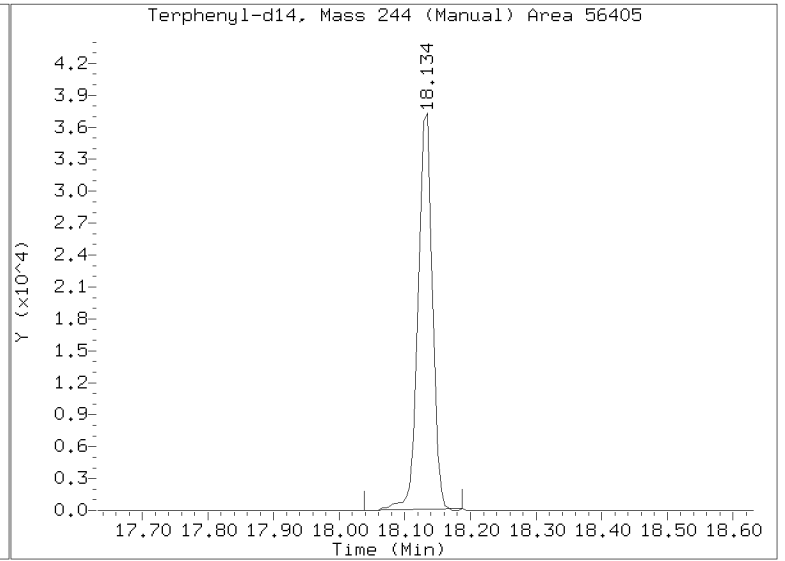
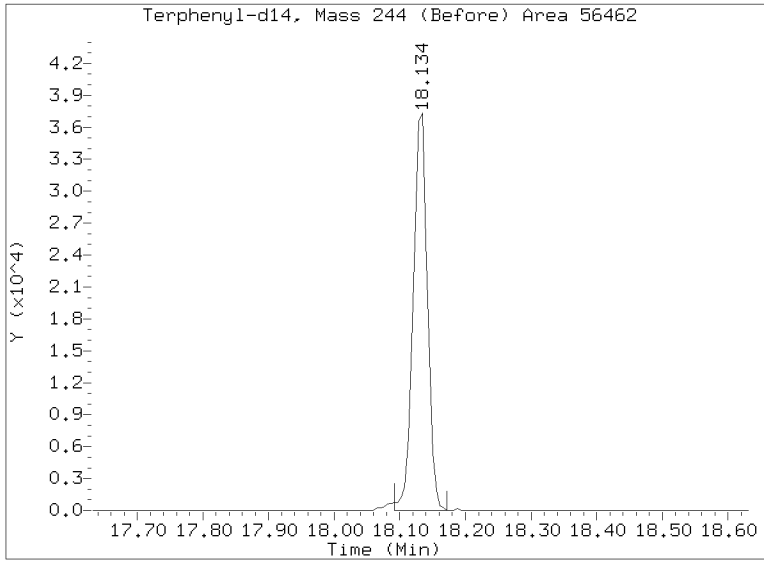
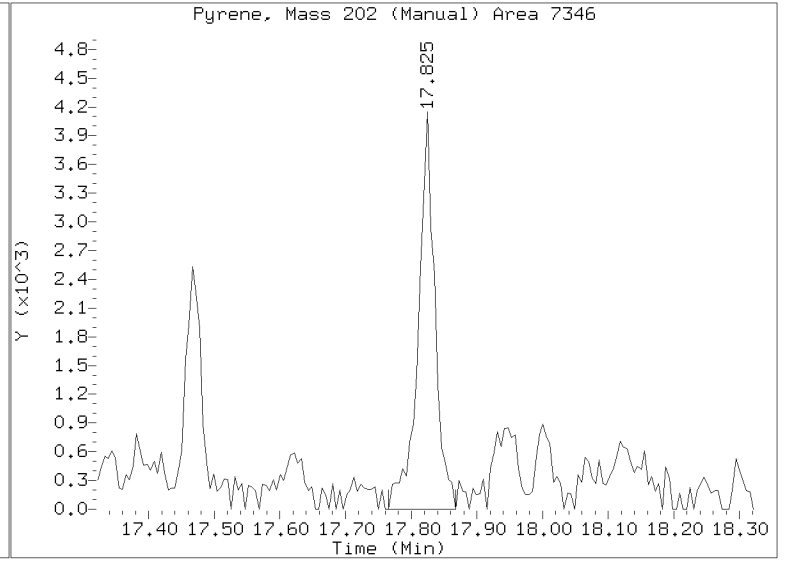
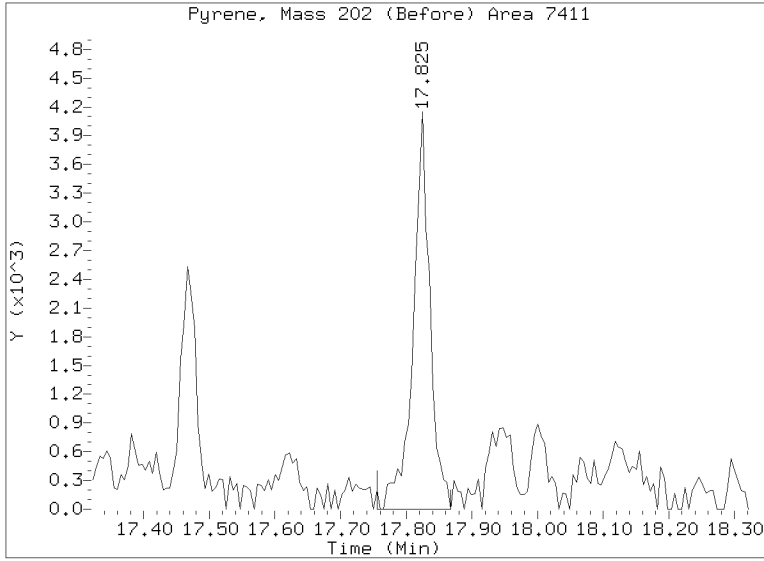
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt6.i/20220715.b/NT622071504.D

Injection Date: 15-JUL-2022 13:43

Lab ID: 22G0121-02RE1 Client ID:

Report Date: 07/15/2022 17:38





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E
Semivolatile Organic Compounds (67 ug/kg -1 ug/L)

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Water

Laboratory ID: 22G0121-03 B

SDG: 22G0121

Sampled: 07/06/22 11:10

Prepared: 07/11/22 13:42

File ID: NT622071327.D

% Solids:

Preparation: EPA 3520C (Liq Liq)

Analyzed: 07/14/22 01:28

Batch: BKG0169

Sequence: SKG0132

Initial/Final: 275 mL / 0.5 mL

Instrument: NT6

Column: ZB-5MSi

Calibration: FE00035

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
91-20-3	Naphthalene	1	0.4	U	0.4	1.8
91-57-6	2-Methylnaphthalene	1	0.4	U	0.4	1.8
83-32-9	Acenaphthene	1	0.5	U	0.5	1.8
87-86-5	Pentachlorophenol	1	4.7	U	4.7	18.2
85-01-8	Phenanthrene	1	0.8	J	0.4	1.8
206-44-0	Fluoranthene	1	0.8	U	0.8	1.8
56-55-3	Benzo(a)anthracene	1	0.7	U	0.7	1.8
218-01-9	Chrysene	1	0.7	U	0.7	1.8
205-99-2	Benzo(b)fluoranthene	1	0.8	U	0.8	1.8
207-08-9	Benzo(k)fluoranthene	1	0.8	U	0.8	1.8
50-32-8	Benzo(a)pyrene	1	0.9	U	0.9	1.8
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.7	U	0.7	1.8
53-70-3	Dibenzo(a,h)anthracene	1	0.8	U	0.8	1.8
90-12-0	1-Methylnaphthalene	1	3.3		0.5	1.8

SURROGATES	ADDED:(ug/L)	(ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	68.182	54.8	80.4	33 - 120	
Phenol-d5	68.182	59.8	87.7	38 - 120	
2-Chlorophenol-d4	68.182	57.8	84.8	41 - 120	
1,2-Dichlorobenzene-d4	45.455	36.4	80.1	20 - 120	
Nitrobenzene-d5	45.455	42.4	93.4	27 - 120	
2-Fluorobiphenyl	45.455	43.2	95.1	33 - 120	
2,4,6-Tribromophenol	68.182	83.2	122	52 - 120	*
p-Terphenyl-d14	45.455	40.1	88.3	28 - 120	

Data File: \\target\share\chem3\nt6.1\20220713A,B\NT622071327.D

Date: 14-JUL-2022 01:28

Client ID:

Sample Info: 22C0121-03

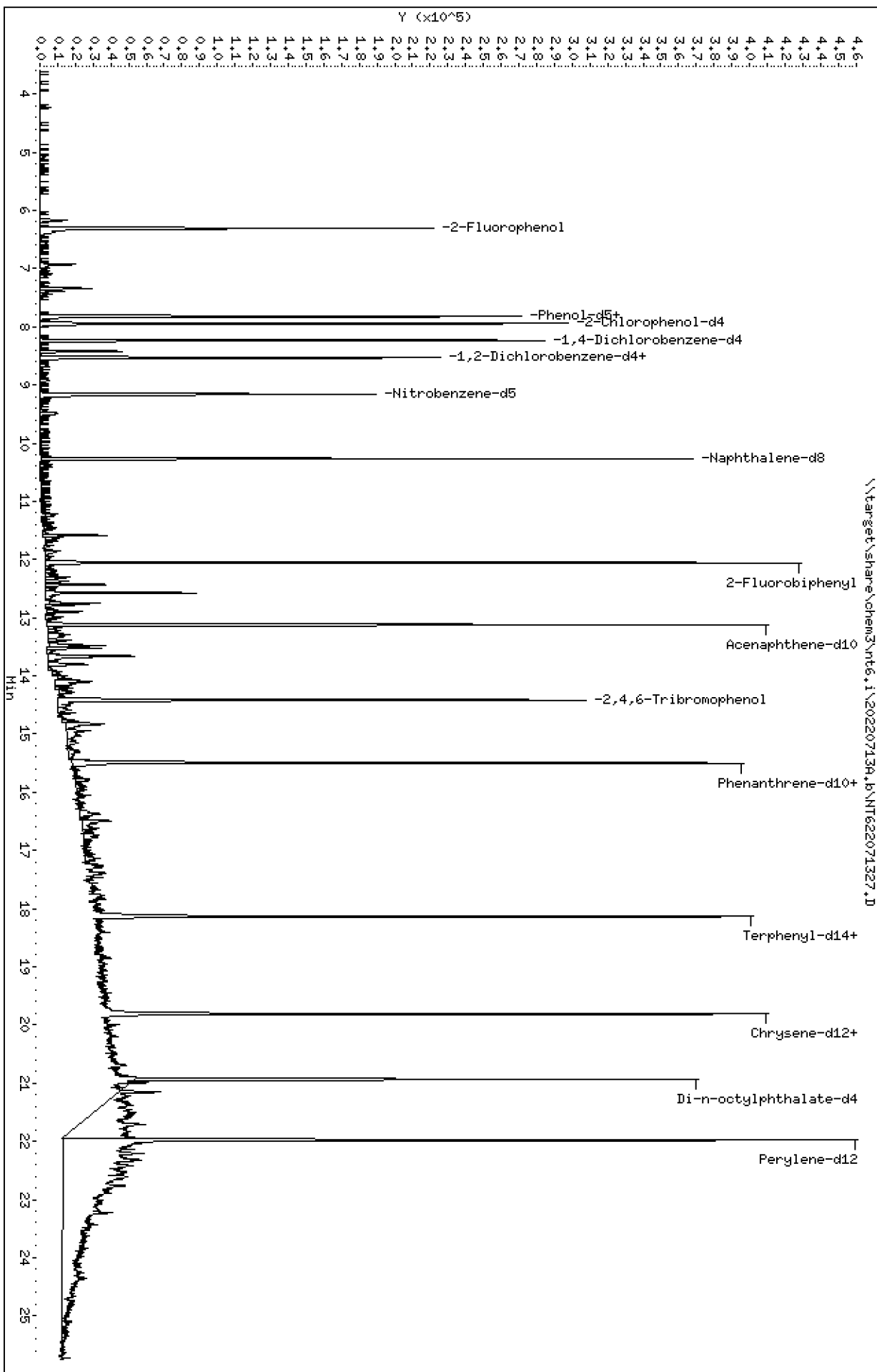
Column phase: ZB-5msi

Instrument: nt6.1

Operator: JZ

Column diameter: 0.32

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Date : 14-JUL-2022 01:28

Client ID:

Instrument: nt6.i

Sample Info: 2200121-03

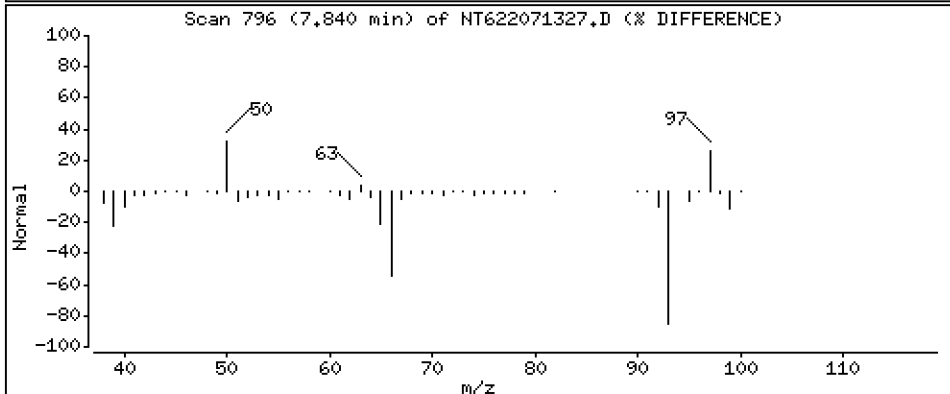
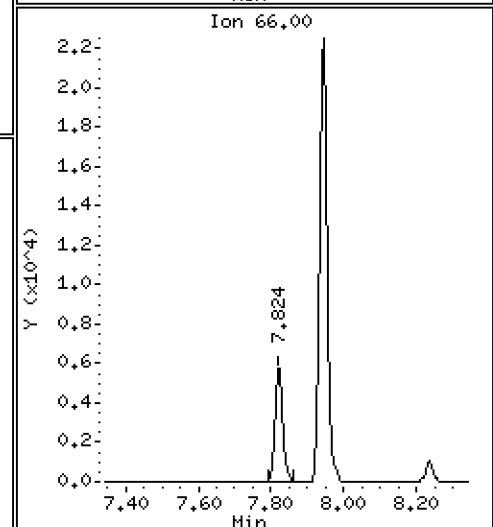
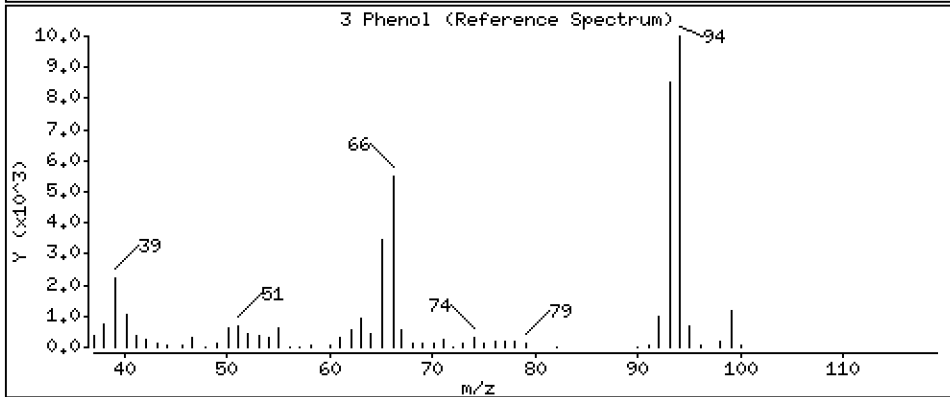
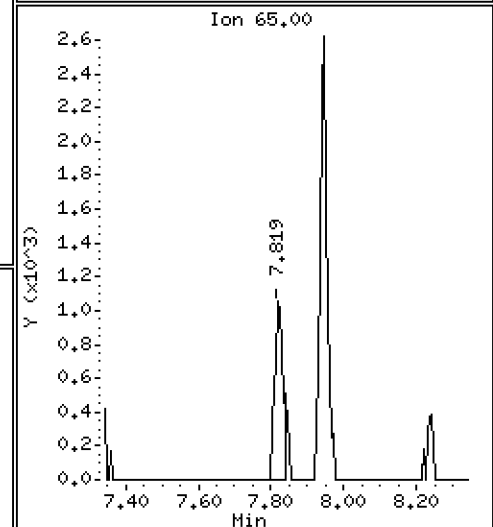
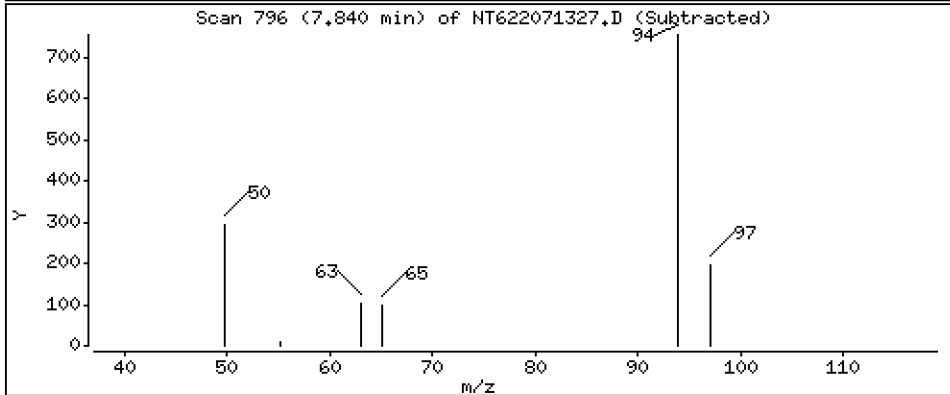
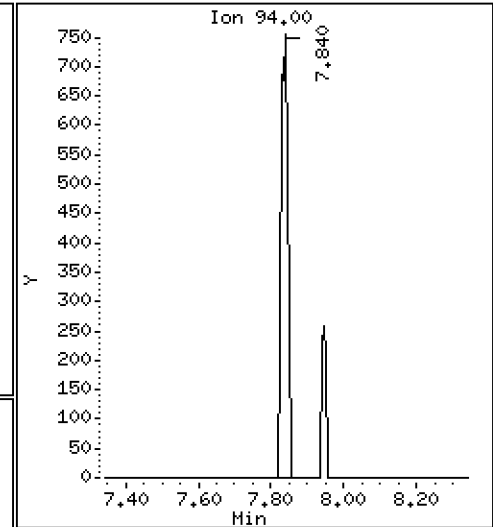
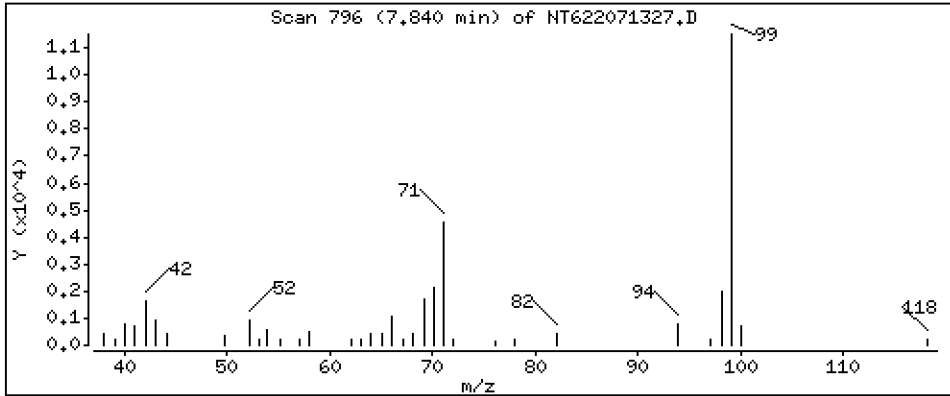
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

3 Phenol

Concentration: 0.2075 ug/mL



Date : 14-JUL-2022 01:28

Client ID:

Instrument: nt6.i

Sample Info: 2200121-03

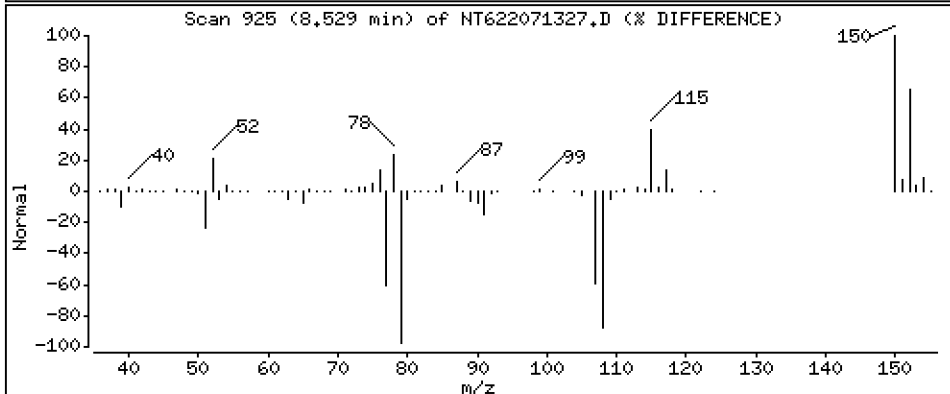
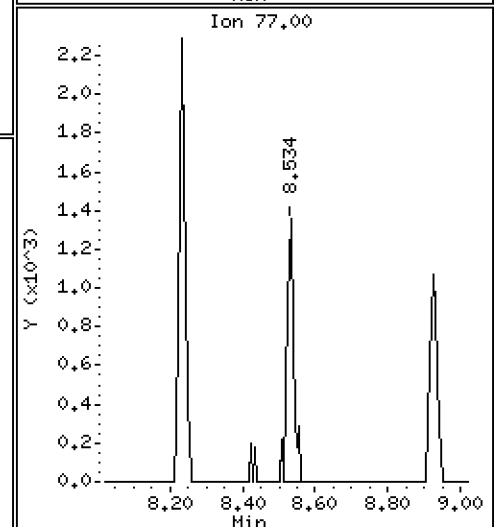
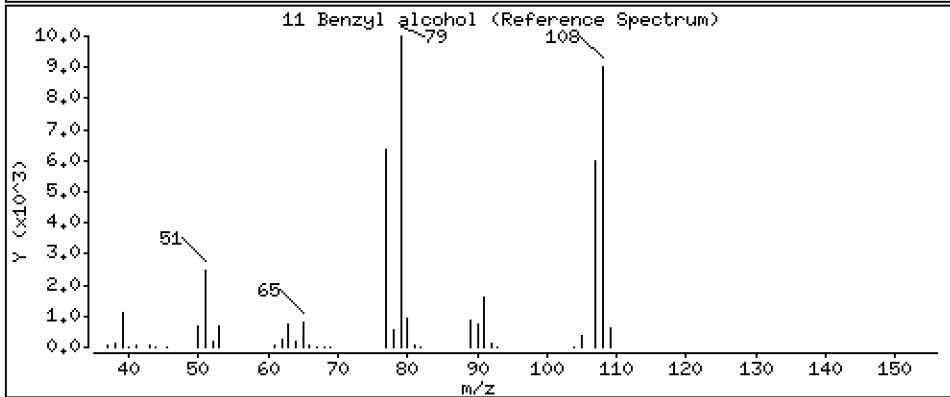
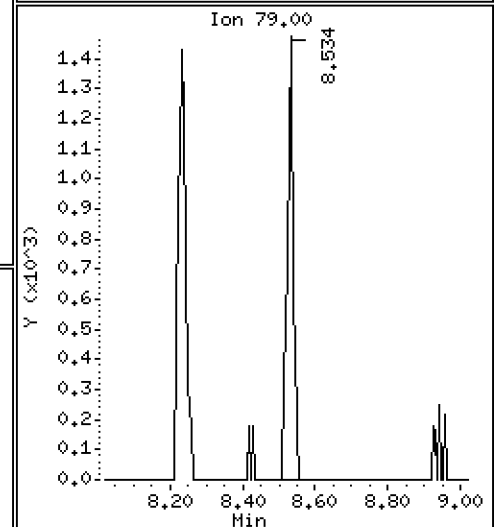
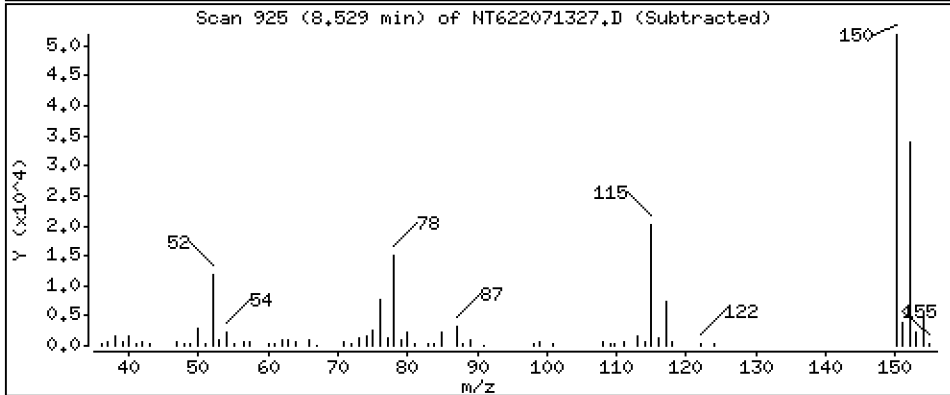
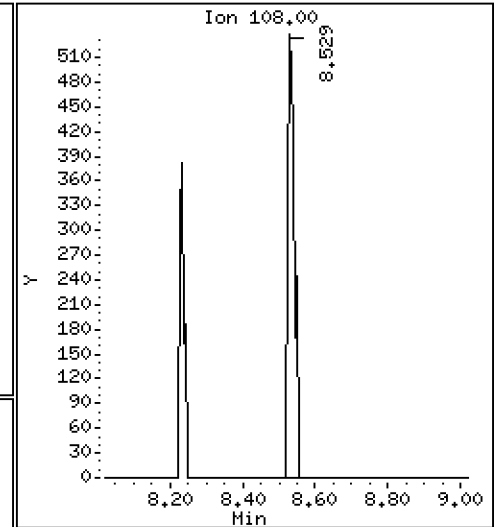
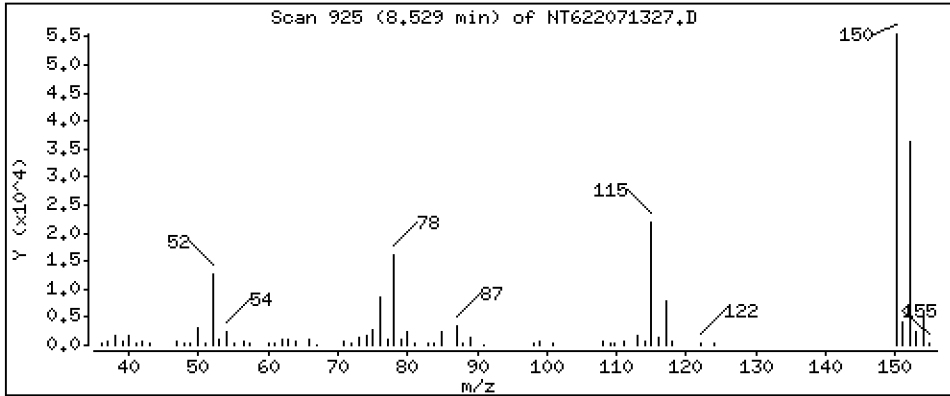
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

11 Benzyl alcohol

Concentration: 0.3089 ug/mL



Date : 14-JUL-2022 01:28

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-03

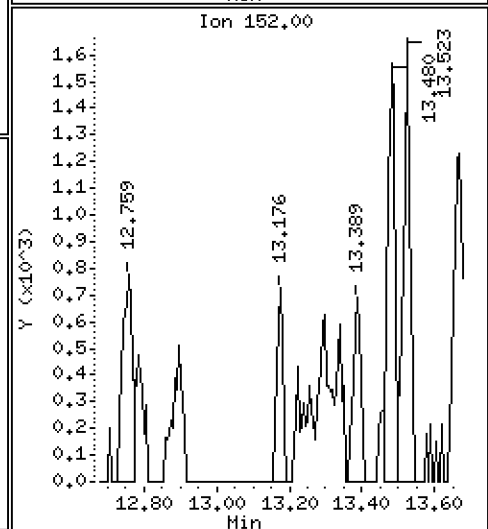
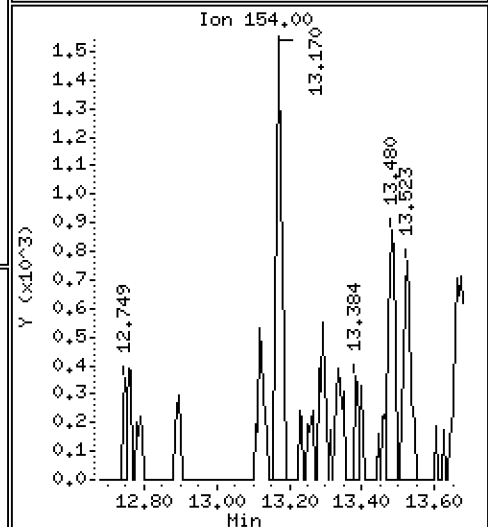
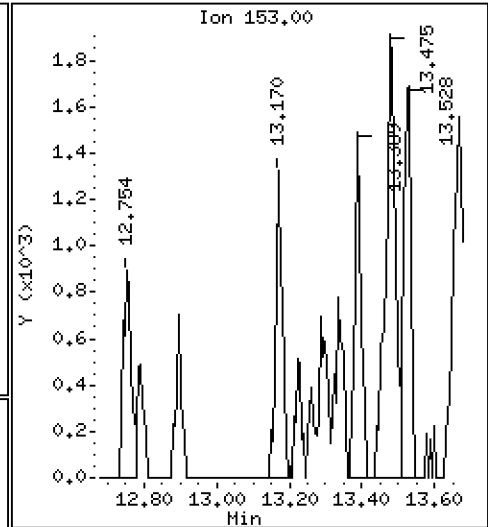
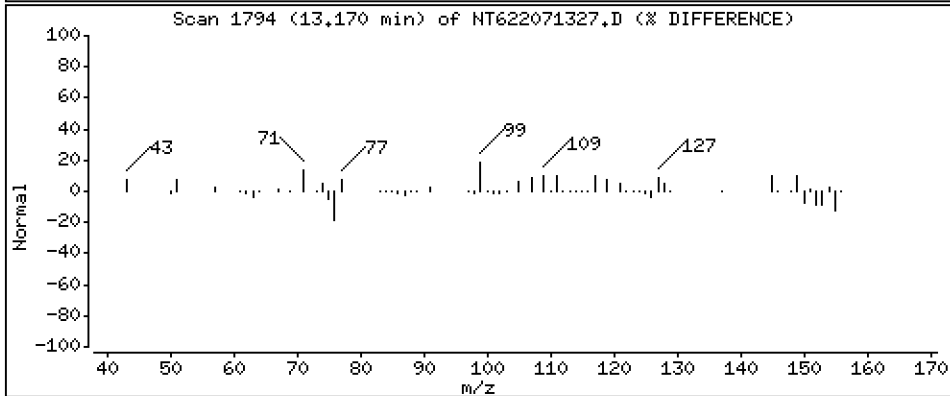
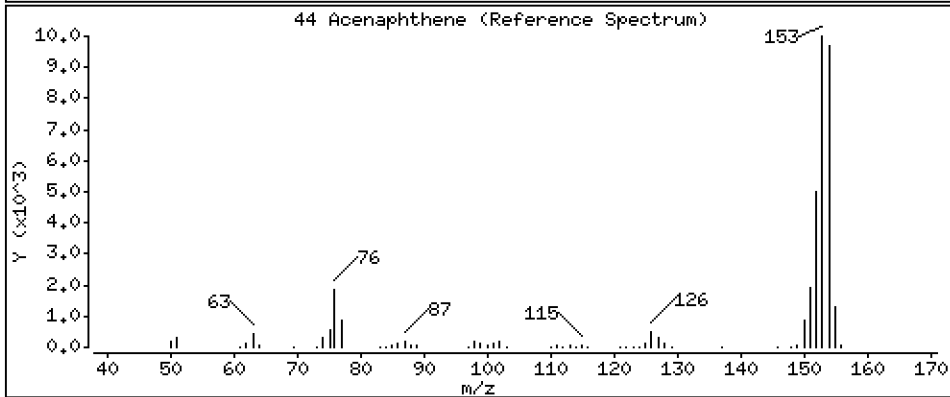
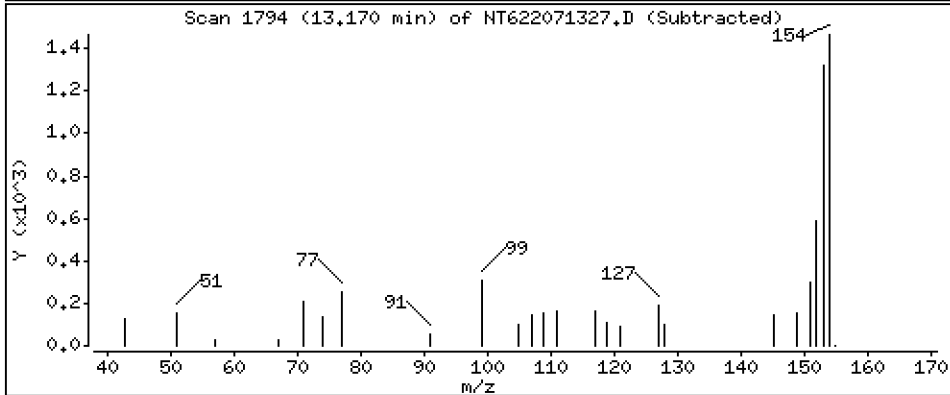
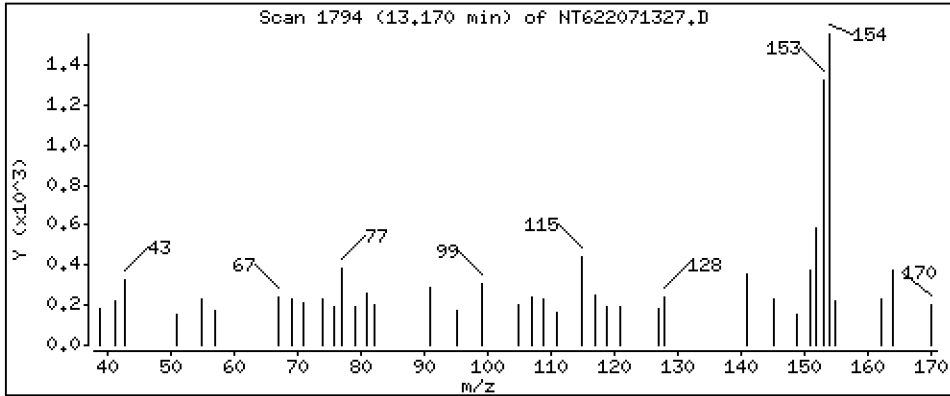
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

44 Acenaphthene

Concentration: 0.2567 ug/mL



Date : 14-JUL-2022 01:28

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-03

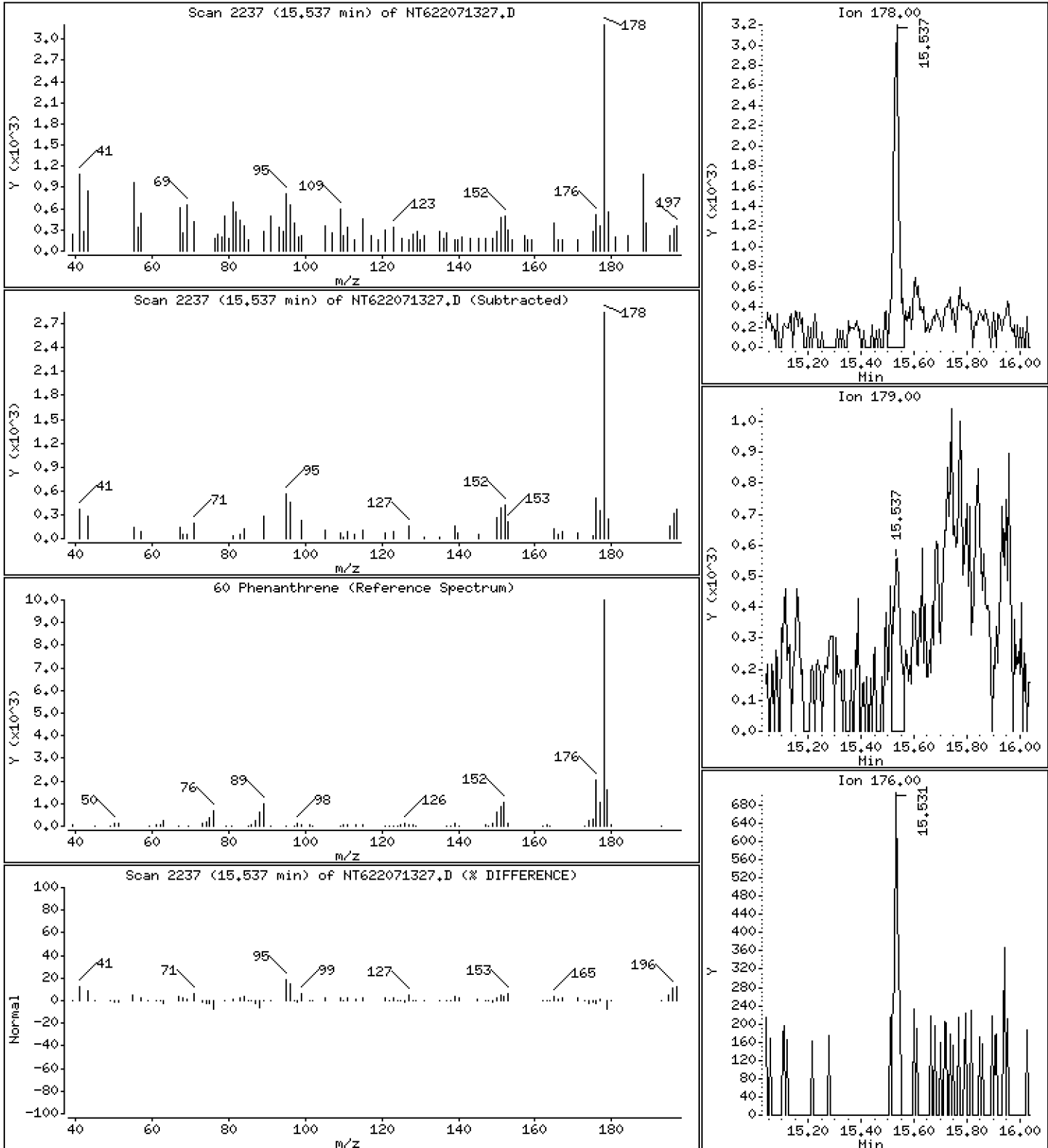
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

60 Phenanthrene

Concentration: 0.4454 ug/mL



Date : 14-JUL-2022 01:28

Client ID:

Instrument: nt6.i

Sample Info: 2200121-03

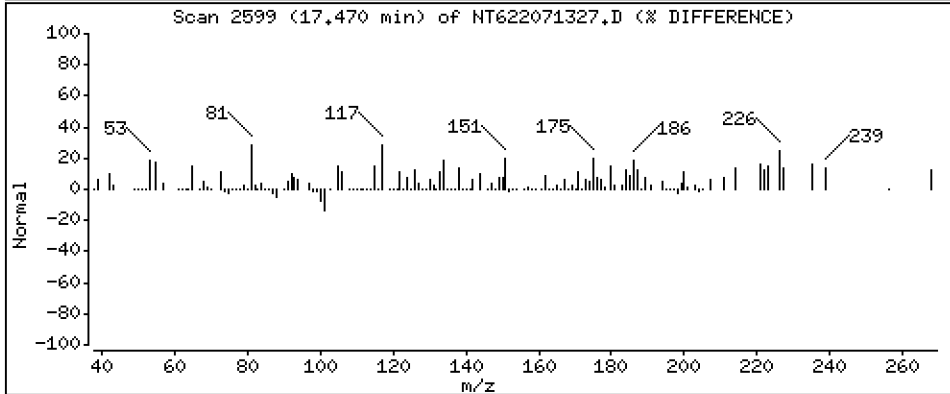
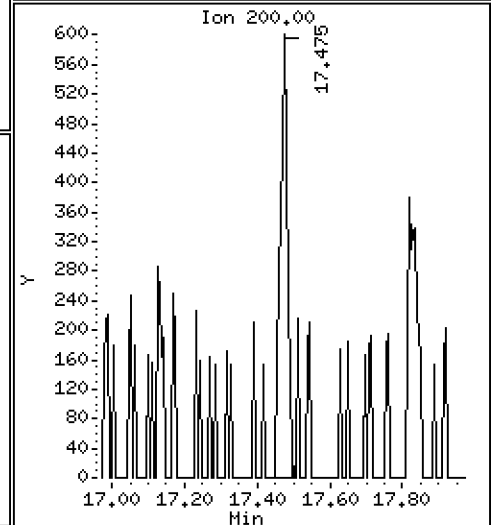
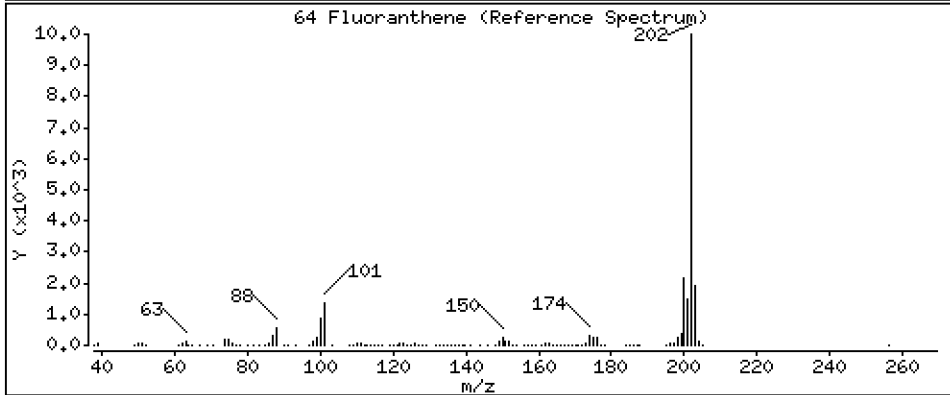
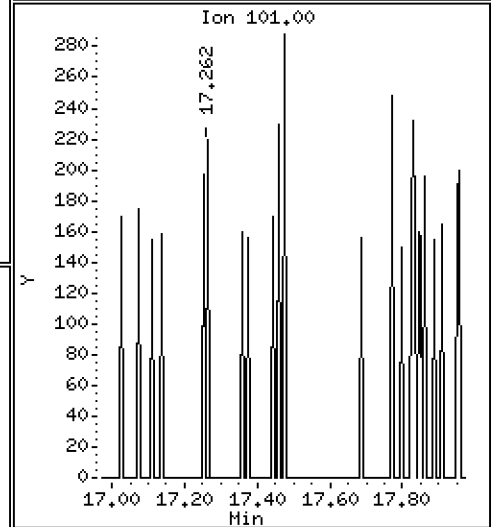
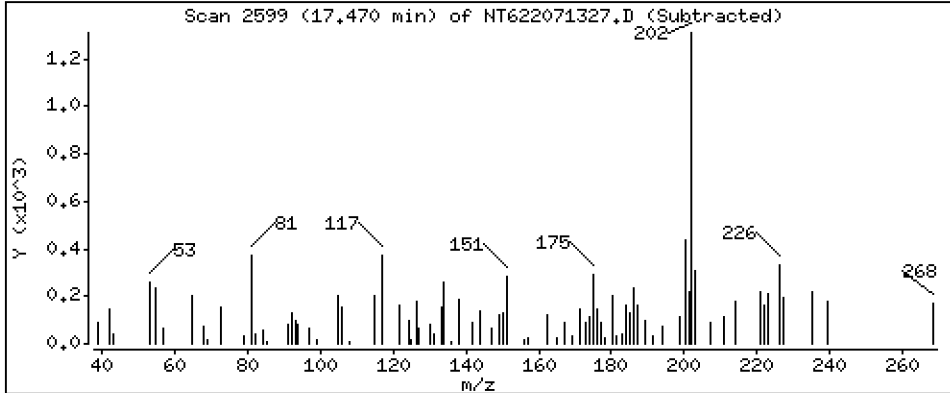
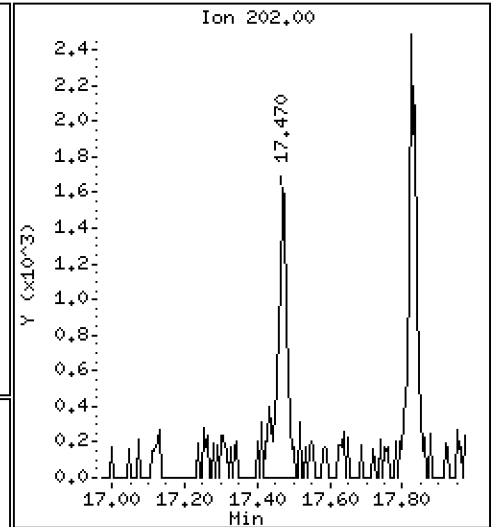
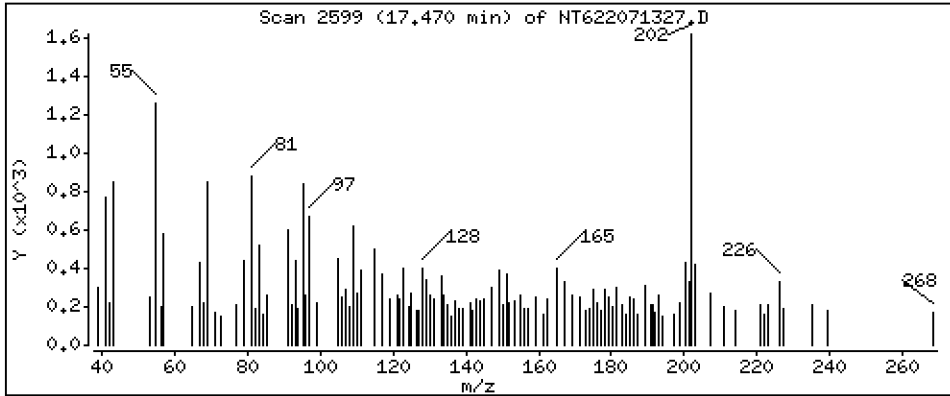
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

64 Fluoranthene

Concentration: 0.2502 ug/mL



Date : 14-JUL-2022 01:28

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-03

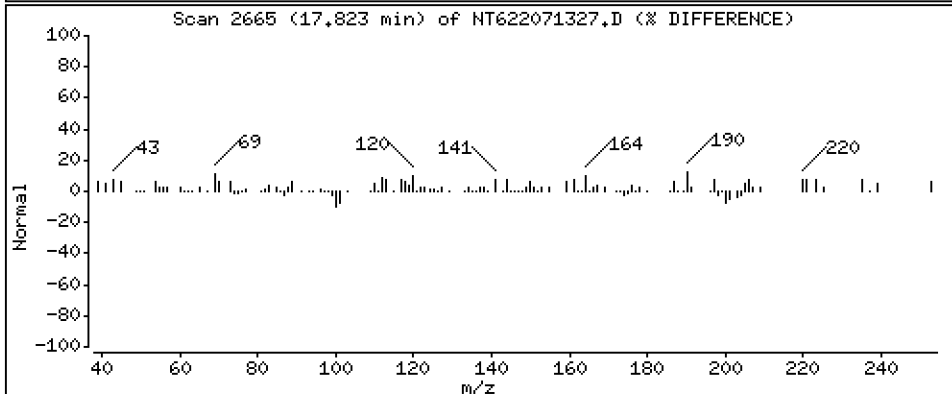
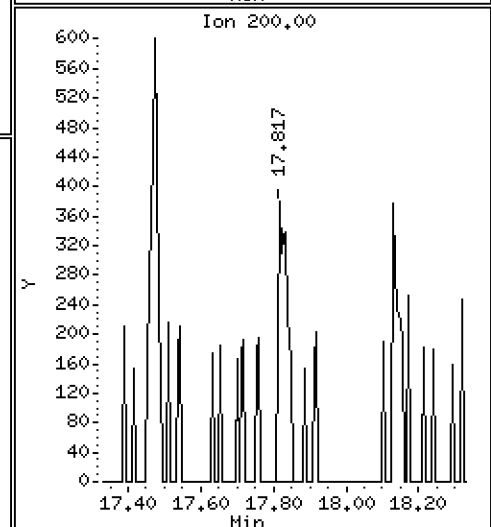
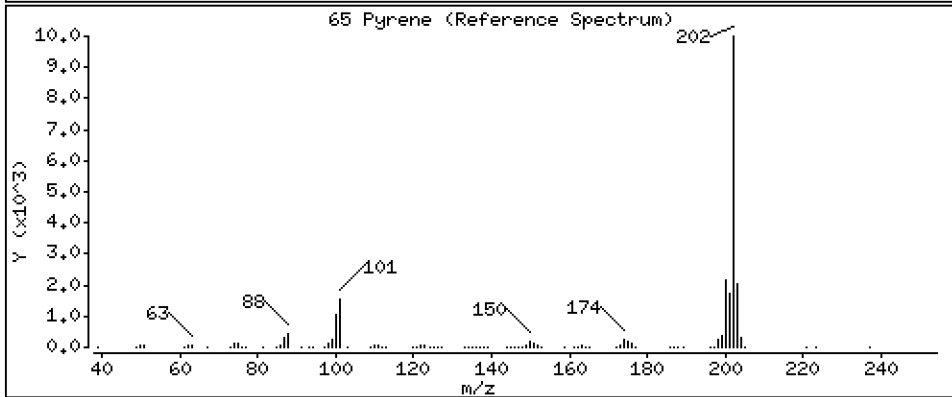
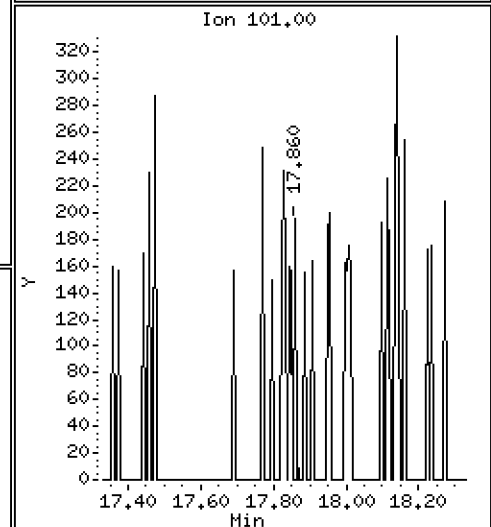
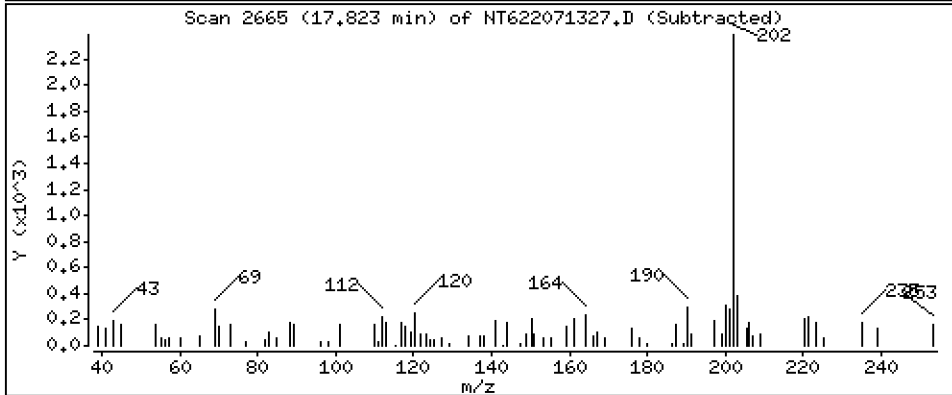
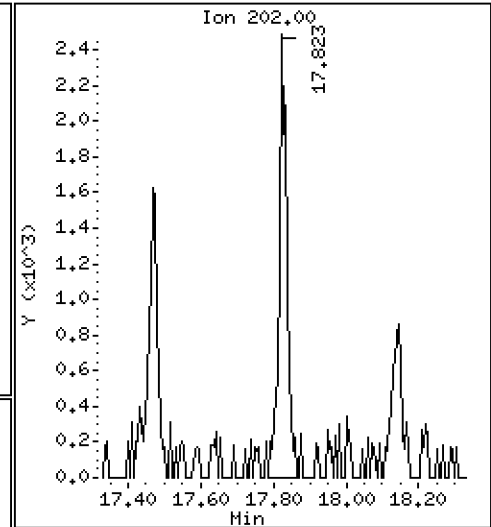
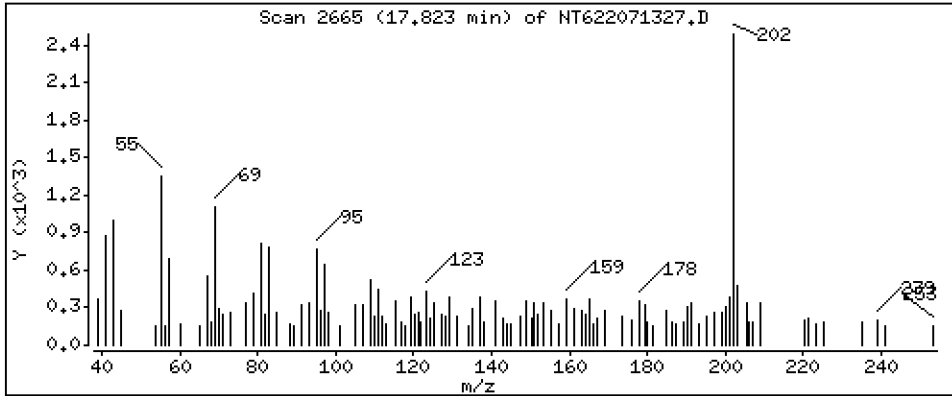
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

65 Pyrene

Concentration: 0.2802 ug/mL



Date : 14-JUL-2022 01:28

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-03

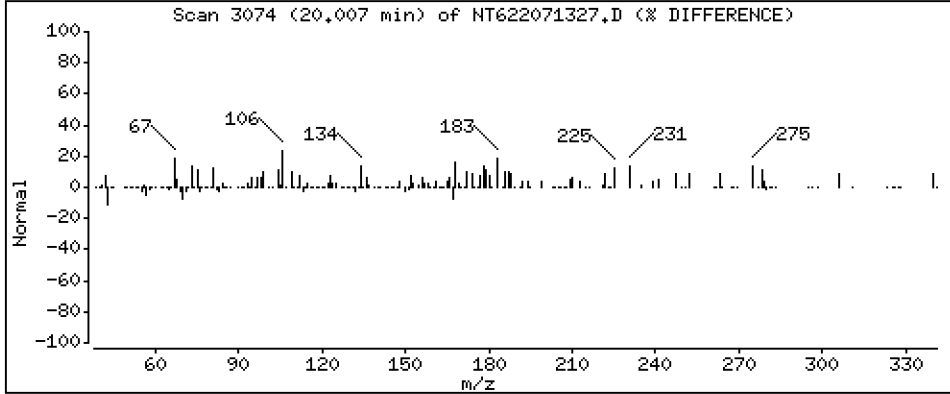
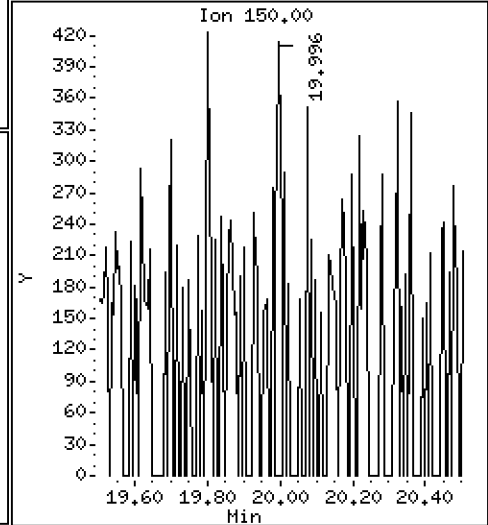
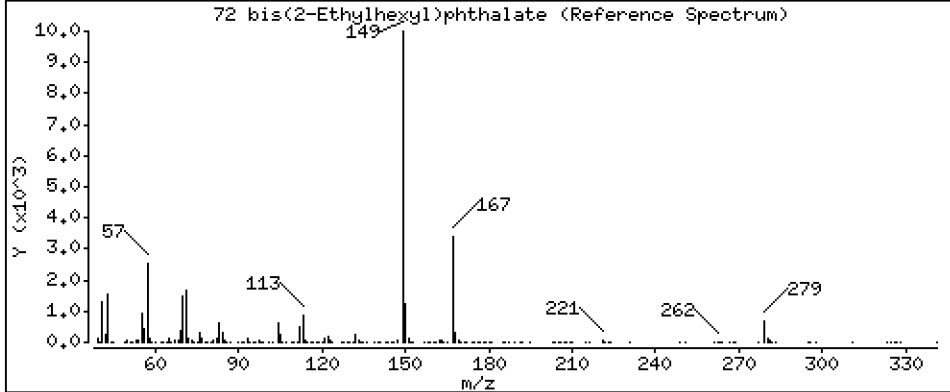
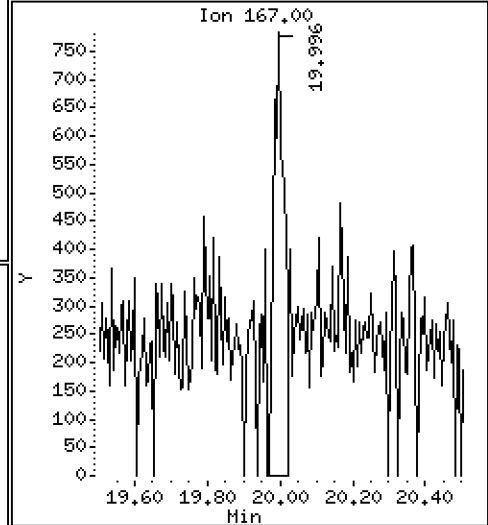
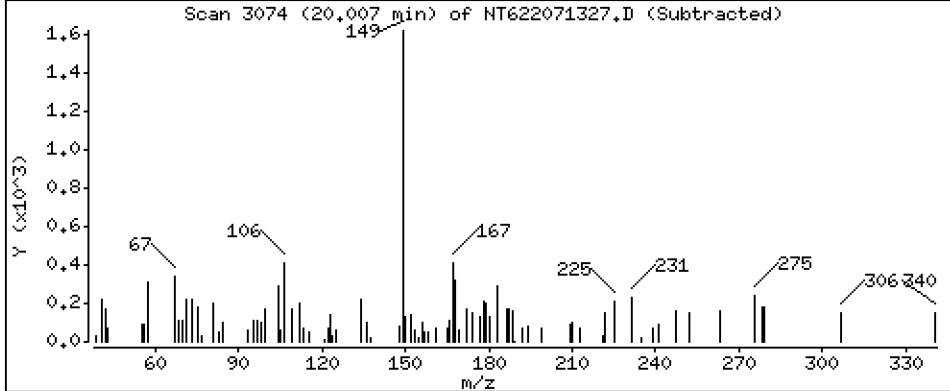
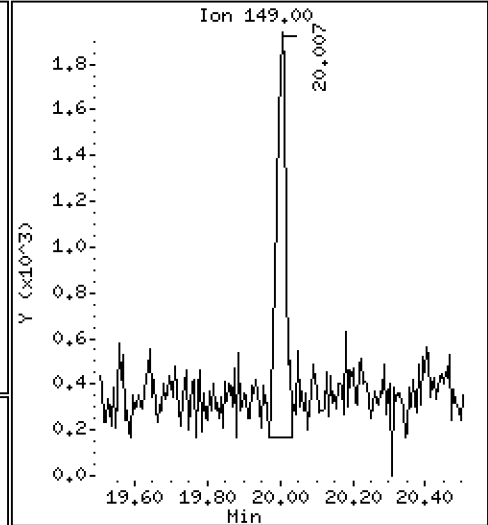
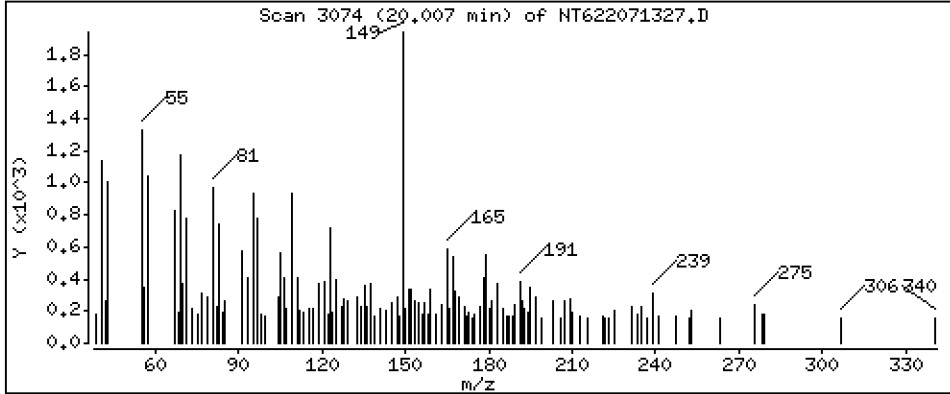
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

72 bis(2-Ethylhexyl)phthalate

Concentration: 0.4761 ug/mL



Date : 14-JUL-2022 01:28

Client ID:

Instrument: nt6.i

Sample Info: 22G0121-03

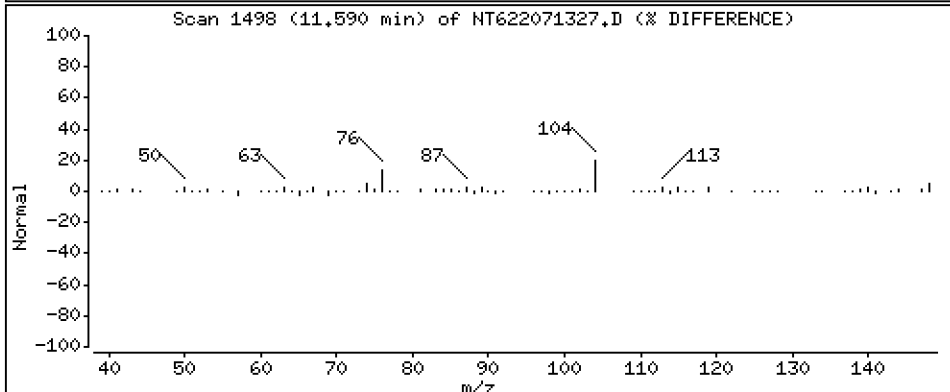
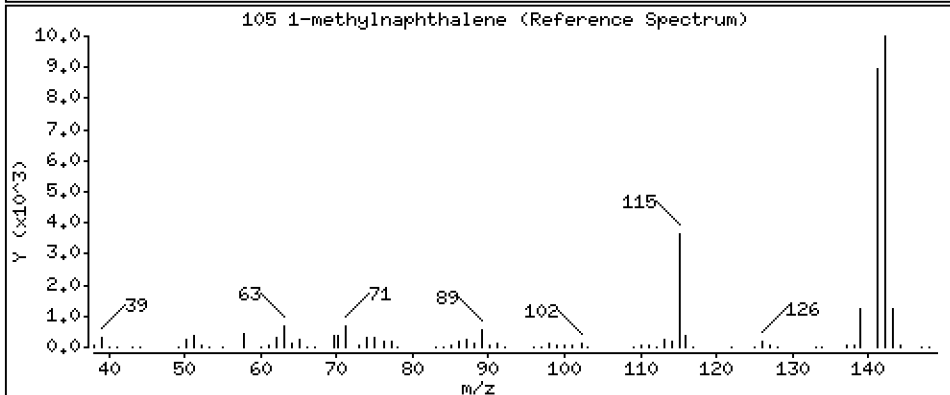
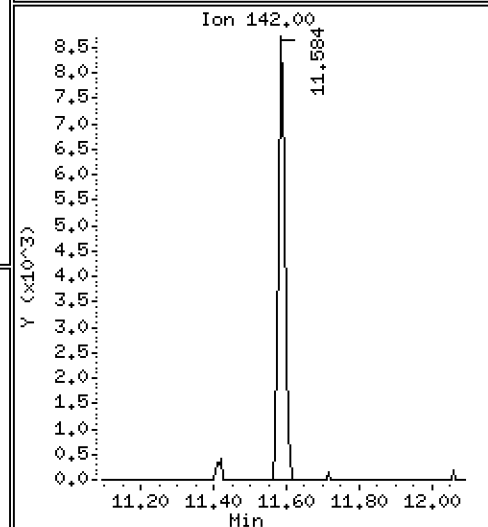
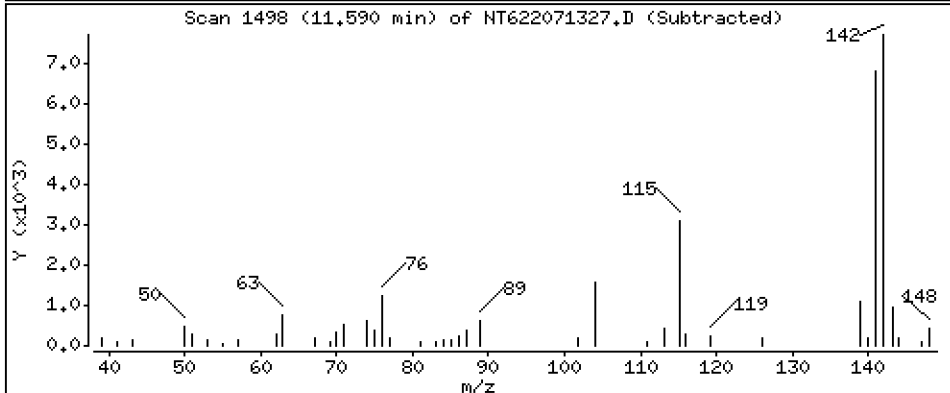
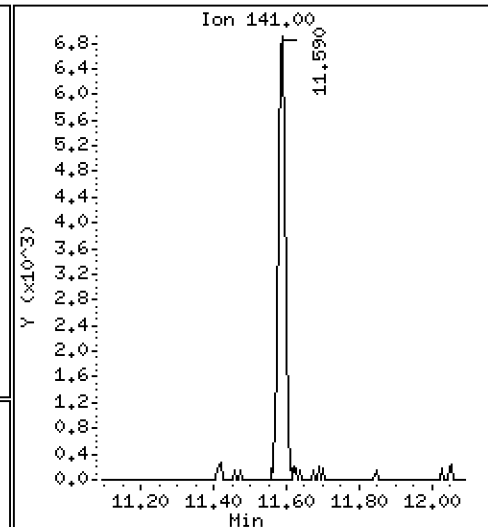
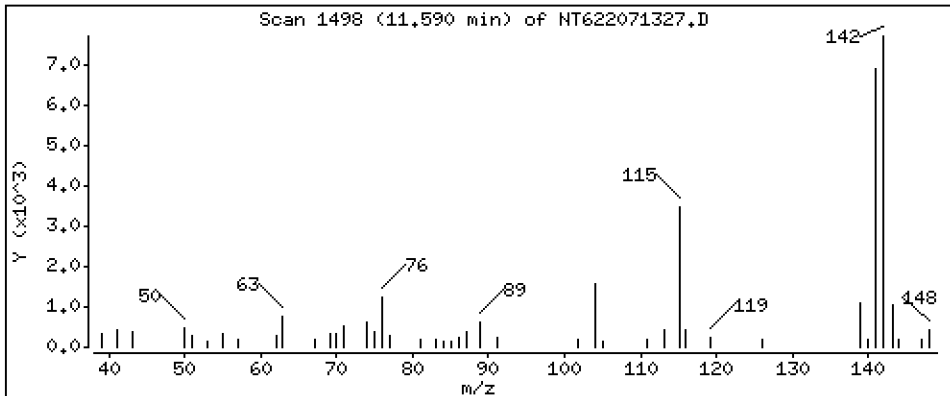
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

105 1-methylnaphthalene

Concentration: 1.814 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220713A.b\NT622071327.D
 Lab Smp Id: 22G0121-03
 Inj Date : 14-JUL-2022 01:28
 Operator : JZ Inst ID: nt6.i
 Smp Info : 22G0121-03
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220713A.b\SW84620220516.m
 Meth Date : 14-Jul-2022 10:53 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 27
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: LLMDDL.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
\$ 1 2-Fluorophenol	112		6.307	6.309	(0.766)	109655	30.1335	30.13
\$ 2 Phenol-d5	99		7.824	7.826	(0.950)	136936	32.8958	32.90
3 Phenol	94		7.840	7.842	(0.952)	1004	0.20751	0.2075
\$ 5 2-Chlorophenol-d4	132		7.946	7.949	(0.965)	119642	31.7990	31.80
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		8.235	8.237	(1.000)	67326	20.0000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		8.534	8.531	(1.036)	53943	20.0334	20.03
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		8.529	8.521	(1.036)	698	0.30889	0.3089
14 2,2'-oxybis(1-Chloropropane)	45		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		9.159	9.161	(0.892)	83609	23.3391	23.34
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		10.270	10.272	(1.000)	233290	20.0000	
28 Naphthalene	128		Compound Not Detected.					
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	141		Compound Not Detected.					
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		12.059	12.056	(0.919)	201981	23.7863	23.79
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152							
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		13.122	13.125	(1.000)	139585	20.0000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		13.170	13.178	(1.004)	1668	0.25667	0.2567
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168							
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166							
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		14.414	14.422	(1.098)	54380	45.7862	45.79
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		15.499	15.501	(1.000)	256855	20.0000	
60 Phenanthrene	178		15.536	15.539	(1.002)	4716	0.44543	0.4454
61 Anthracene	178							
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		17.470	17.472	(1.127)	2994	0.25021	0.2502 (M)
65 Pyrene	202		17.822	17.830	(0.899)	3793	0.28021	0.2802 (M)
\$ 66 Terphenyl-d14	244		18.137	18.140	(0.915)	226320	22.0808	22.08
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228							
* 69 Chrysene-d12	240		19.814	19.817	(1.000)	215601	20.0000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228							
72 bis(2-Ethylhexyl)phthalate	149		20.007	20.004	(0.956)	3261	0.47607	0.4761
* 134 Di-n-octylphthalate-d4	153		20.936	20.939	(1.000)	296090	20.0000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252							
75 Benzo(k)fluoranthene	252							
76 Benzo(a)pyrene	252							
* 77 Perylene-d12	264		21.977	21.980	(1.000)	238713	20.0000	
78 Indeno(1,2,3-cd)pyrene	276							
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276							
90 N-Nitrosodimethylamine	74							
103 Pyridine	79							
105 1-methylnaphthalene	141		11.589	11.592	(1.128)	9587	1.81411	1.814
111 Azobenzene (1,2-DP-Hydrazine)	77							
187 Total Benzofluoranthenes	252							
144 alpha-Terpineol	59							

Compounds =====	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS					ON-COLUMN	FINAL
	====	====	=====	=====	=====	(ug/mL)	(ug/mL)
						=====	=====

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 13-JUL-2022
 Lab File ID: NT622071327.D Calibration Time: 22:06
 Lab Smp Id: 22G0121-03
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220713A.b\SW84620220516.m
 Misc Info: 22-

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	49157	24579	98314	67326	36.96
27 Naphthalene-d8	173237	86619	346474	233290	34.67
42 Acenaphthene-d10	116765	58383	233530	139585	19.54
59 Phenanthrene-d10	233112	116556	466224	256855	10.19
69 Chrysene-d12	196434	98217	392868	215601	9.76
134 Di-n-octylphthala	268008	134004	536016	296090	10.48
77 Perylene-d12	200282	100141	400564	238713	19.19

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.24	7.74	8.74	8.24	-0.03
27 Naphthalene-d8	10.27	9.77	10.77	10.27	-0.03
42 Acenaphthene-d10	13.13	12.63	13.63	13.12	-0.02
59 Phenanthrene-d10	15.50	15.00	16.00	15.50	-0.02
69 Chrysene-d12	19.82	19.32	20.32	19.81	-0.01
134 Di-n-octylphthala	20.94	20.44	21.44	20.94	-0.01
77 Perylene-d12	21.98	21.48	22.48	21.98	-0.01

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

REVIEW SUMMARY FOR FILE - NT622071327.D

Lab ID: 22G0121-03
nt6.i, SW84620220516.m, 14-JUL-2022 01:28

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

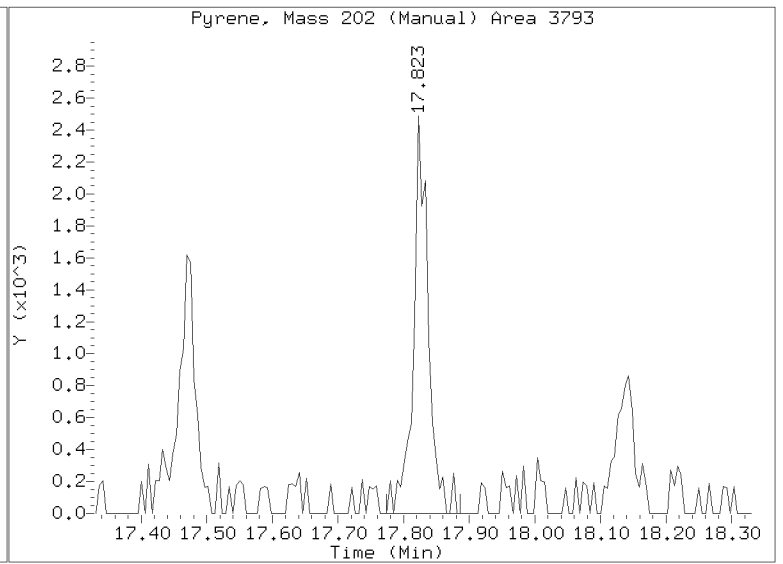
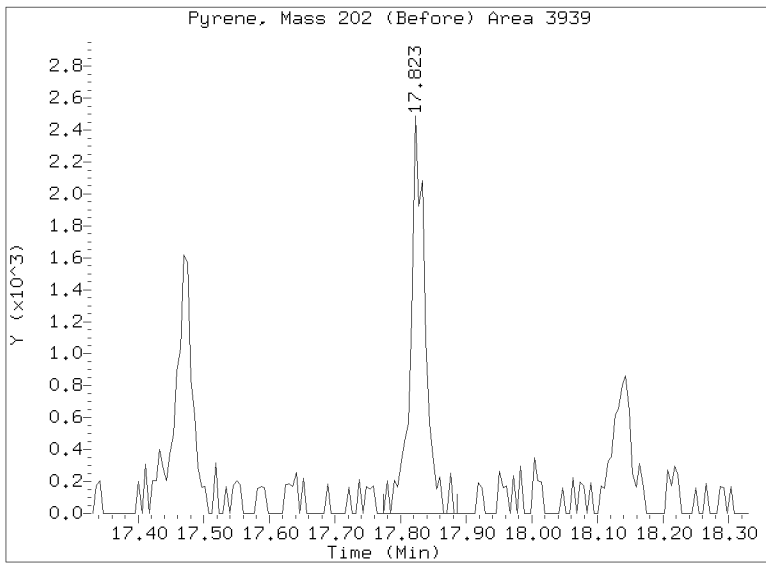
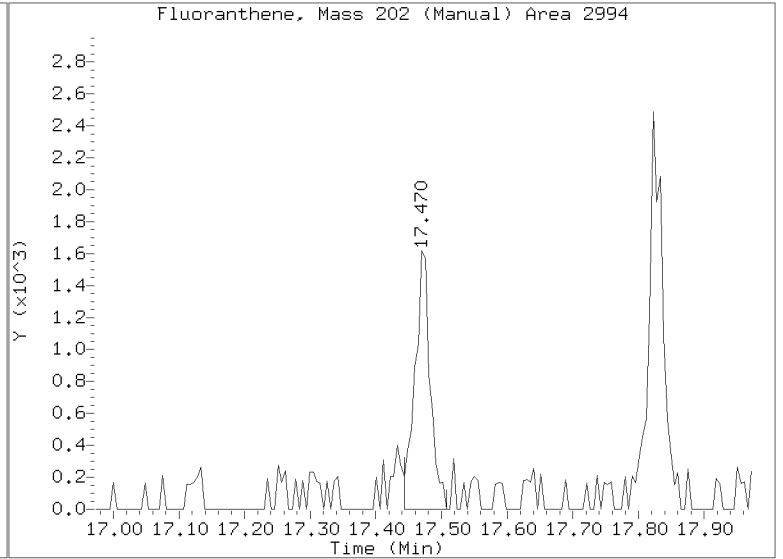
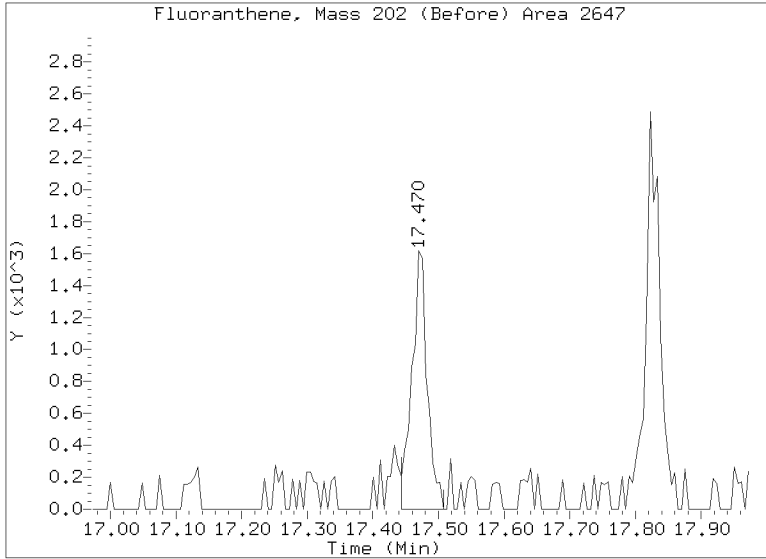
No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, LLMDL.sub = 0.2000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt6.i/20220713A.b/NT622071327.D
Injection Date: 14-JUL-2022 01:28
Lab ID:22G0121-03 Client ID:
Report Date: 07/14/2022 12:13





PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Batch: BKG0169

Batch Matrix: Water

Preparation: EPA 3520C (Liq Liq)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Z1A-4-PW	22G0121-02	NT622071326.D	07/11/22 13:42	PAH Waters
Z1A-4-PW	22G0121-02RE1	NT622071504.D	07/11/22 13:42	Added 7/14/2022 by JZ
Z1A-7-PW	22G0121-03	NT622071327.D	07/11/22 13:42	PAH Waters
Blank	BKG0169-BLK1	NT622071323.D	07/11/22 13:42	
LCS	BKG0169-BS1	NT622071324.D	07/11/22 13:42	
LCS Dup	BKG0169-BSD1	NT622071325.D	07/11/22 13:42	



Batch: BKG0169

Prepared using: EPA 3520C (Liq Liq)
8270E SVOC (67ug/kg or 1ug/L LiqLiq) in Water (Version:PAH Waters)

Matrix: Water

Date Prepared: 7/11/22

Balance ID: _____

Set Up By: OP 7/11/22

WO Comments
22G0121: Porewaters -Processing 6.7 L of sediment S520, Processing 10L Sediment S575. <G>MS/MSD</G>

The following standards may be missing from this batch!

Designator	Description
QLS 14	QLS Spike (Freezer)
21	BHT/SKYDROL

Analysis: 8270E SVOC (67ug/kg or 1ug/L LiqLiq)

Lab Number & Container	Initial (mL) (Target) Actual	Disassemble Liq/Liq (Mantle #)	Liq/Liq Start Time	Liq/Liq End Time	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22G0121-02 B	(500.00) <u>350</u>	<u>23</u>	<u>13:51</u>	<u>8:31</u>	0.5	0.5	
22G0121-03 B	(500.00) <u>275</u>	<u>24</u>	<u>13:51</u>	<u>↓</u>	0.5	0.5	

Batch QC

Lab Number	Initial (mL) (Target) Actual	Disassemble Liq/Liq (Mantle #)	Liq/Liq Start Time	Liq/Liq End Time	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BKG0169-BLK1	(500.00) <u>500</u>	<u>20</u>	<u>13:51</u>	<u>8:31</u>	0.5	0.5	
BKG0169-BS1	(500.00) <u>500</u>	<u>21</u>	<u>↓</u>	<u>↓</u>	0.5	0.5	
BKG0169-BSD1	(500.00) <u>500</u>	<u>22</u>	<u>↓</u>	<u>↓</u>	0.5	0.5	

*DECANT/PIPETTE OFF WATER, GET AS CLEAR OF A SAMPLE AS YOU CAN

*RECORD AMOUNT MEASURED

*ONLY USE B BOTTLES

AR 7/11/22
Client ID verified By Date

JS 07/12/22
Preparation Reviewed By Date

07/11/22 13:42
Extraction Date and Time



Batch: BKG0169

Prepared using: EPA 3520C (Liq Liq)

8270E SVOC (67ug/kg or 1ug/L LiqLiq) in Water (Version:PAH Waters)

WO Comments

22G0121: Porewaters - Processing 6.7 L of sediment S520, Processing 10L Sediment S575, <G>MS/MSD</G>

Prep Steps

Reagents Used

Surrogates & Spike Standards Used

Liquid/Liquid	Station/Reagent	Standard ID	Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Analyst/Date: <i>R</i> 7/11/22	Liquid/Liquid Setup Analyst: <i>R</i> Date: 7/11/22		Surrogate	A K002721 Exp: 03/20/2023	125µL	<i>R</i>	<i>SH</i>
KD 80 - 85°C	Methylene Chloride	K00 9735	100/150µg/mL				
0 1 2 4 5 6	1:1 Sulfuric Acid/DI H2O	K00 3392	Full List Spike (Freezer)	7 K004966 (V) Exp: 08/03/2022	125µL	<i>R</i>	<i>SH</i>
100µg/mL							
Analyst/Date: <i>SR</i> 7/12/22	Liquid/Liquid Breakdown Analyst: <i>R</i> Date: 7/12/22		Base Spike	56 K004966 (V) Exp: 08/03/2022	100µL	<i>R</i>	<i>SH</i>
TurboVap	Anhydrous Sodium Sulfate	K00 5859	200µg/mL				
1 2 3 4 5	KD		Acid Spike	38 K004966 (V) Exp: 08/03/2022	100µL	<i>R</i>	<i>SH</i>
Analyst/Date: <i>SR</i> 7/12/22	Analyst: <i>SRP</i> Date: 7/12/22		100/200µg/mL				
	Methylene Chloride	K00 5942					
Vialing	Vialing						
Analyst/Date: <i>SR</i> 7/12/22	Analyst: <i>SR</i> Date: 7/12/22						
	Methylene Chloride	K00 5942					

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

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



Batch: BKG0169

Prepared using: EPA 3520C (Liq Liq)

8270E SVOC (67ug/kg or 1ug/L LiqLiq) in Water (Version:PAH Waters)

WO Comments
22G0121: Porewaters -Processing 6.7 L. of sediment \$520. Processing 10L Sediment \$575. <G>MS/MSD</G>

Prep Instructions	
<p>SPECIAL INSTRUCTIONS:</p> <ol style="list-style-type: none">1. Add ~200mL DCM to Liq/Liq.2. Add 500mL sample.3. Add surr/spk.4. Adjust Acid (pH <2) using 1:1 Sulfuric Acid. (1/4 pipet for blanks & 1/2 pipet for samples). Stir to mix. Let sit 10 minutes. Verify pH.5. Extract minimum 8 hrs.6. KD (NO drying column) to 5mL at 80°.7. TurboVap to 0.5mL.8. Vial in DCM. <p>Archive: Y / N</p>	



Extraction Parameter: SWA Extraction Batch B126d169

Total Solids Batch: MA Work Order(s): 226021

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input checked="" type="checkbox"/> Turbid/Color= <u>turbid + Gray - Q2+Q3</u>	<u>Rm 7/11/22</u>
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input checked="" type="checkbox"/> Oily, obvious fuel/sulfur odors= <u>strong fuel odor</u>	<u>Rm 7/11/22</u>
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input checked="" type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions). <u>-Q2+Q3 low volume; see bench sheet</u>	<u>Rm 7/11/22</u>
<input type="checkbox"/> Share Samples Y / N	
<input type="checkbox"/> Multiple Jars Y / N	
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



Form I
METHOD BLANK DATA SHEET
EPA 8270E

Blank

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>BKG0169-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>07/11/22 13:42</u>
Solids:		Preparation:	<u>EPA 3520C (Liq Liq)</u>
Batch:	<u>BKG0169</u>	Sequence:	<u>SKG0132</u>
Instrument:	<u>NT6</u>	Column:	<u>ZB-5MSi</u>
		File ID:	<u>NT622071323.D</u>
		Analyzed:	<u>07/13/22 23:13</u>
		Initial/Final:	<u>500 mL / 0.5 mL</u>
		Calibration:	<u>FE00035</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	RL
91-20-3	Naphthalene	1	0.2	U	0.2	1.0
91-57-6	2-Methylnaphthalene	1	0.2	U	0.2	1.0
83-32-9	Acenaphthene	1	0.3	U	0.3	1.0
87-86-5	Pentachlorophenol	1	2.6	U	2.6	10.0
85-01-8	Phenanthrene	1	0.2	U	0.2	1.0
206-44-0	Fluoranthene	1	0.4	U	0.4	1.0
56-55-3	Benzo(a)anthracene	1	0.4	U	0.4	1.0
218-01-9	Chrysene	1	0.4	U	0.4	1.0
205-99-2	Benzo(b)fluoranthene	1	0.4	U	0.4	1.0
207-08-9	Benzo(k)fluoranthene	1	0.4	U	0.4	1.0
50-32-8	Benzo(a)pyrene	1	0.5	U	0.5	1.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.4	U	0.4	1.0
53-70-3	Dibenzo(a,h)anthracene	1	0.4	U	0.4	1.0
90-12-0	1-Methylnaphthalene	1	0.3	U	0.3	1.0

SURROGATES	ADDED (ug/L)	CONC. (ug/L)	% REC	QC LIMITS	Q
2-Fluorophenol	37.500	37.2	99.1	33 - 120	
Phenol-d5	37.500	38.9	104	38 - 120	
2-Chlorophenol-d4	37.500	39.1	104	41 - 120	
1,2-Dichlorobenzene-d4	25.000	24.0	95.9	20 - 120	
Nitrobenzene-d5	25.000	27.7	111	27 - 120	
2-Fluorobiphenyl	25.000	26.1	104	33 - 120	
2,4,6-Tribromophenol	37.500	46.6	124	52 - 120	*
p-Terphenyl-d14	25.000	31.3	125	28 - 120	*

Data File: \\target\share\chem3\nt6.1\20220713A.1\NT622071323.D

Date: 13-JUL-2022 23:13

Client ID:

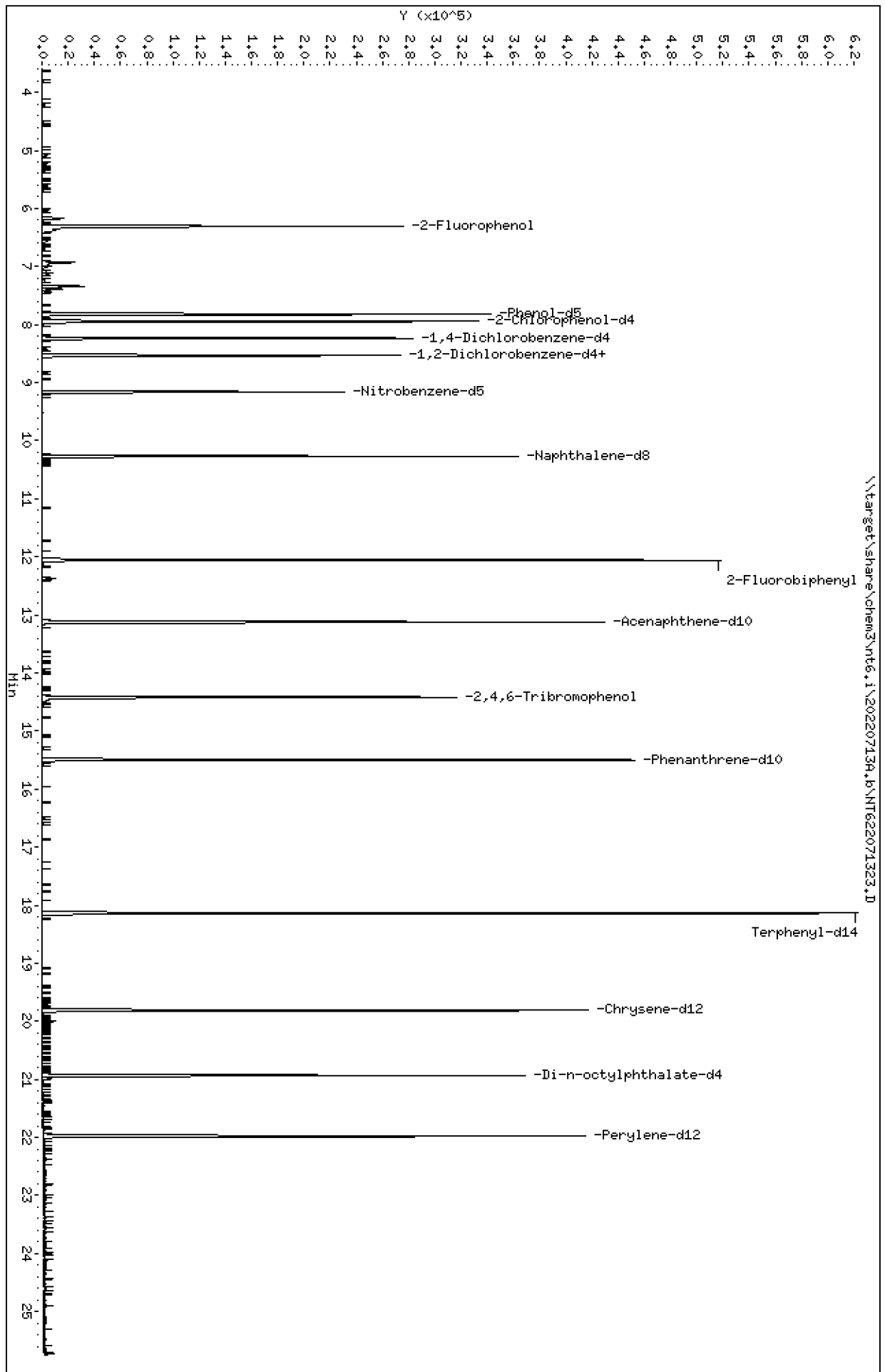
Sample Info: BK00169-BLK1,

Column phase: ZB-5msi

Instrument: nt6.1

Operator: JZ

Column diameter: 0.32



Date : 13-JUL-2022 23:13

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BLK1,

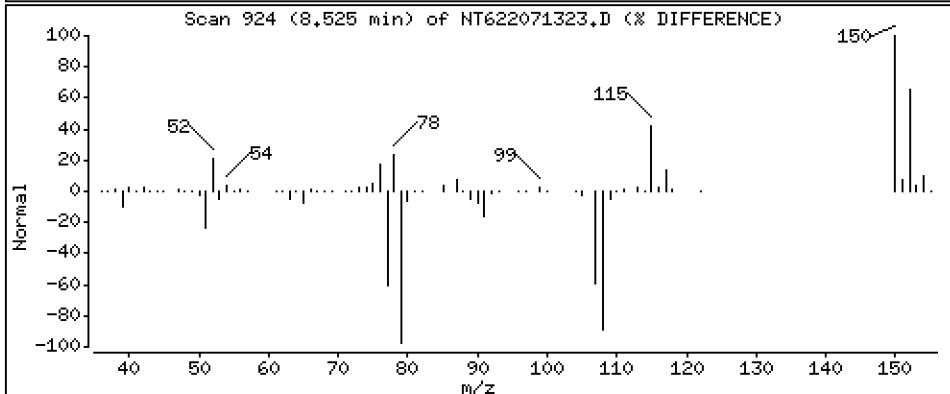
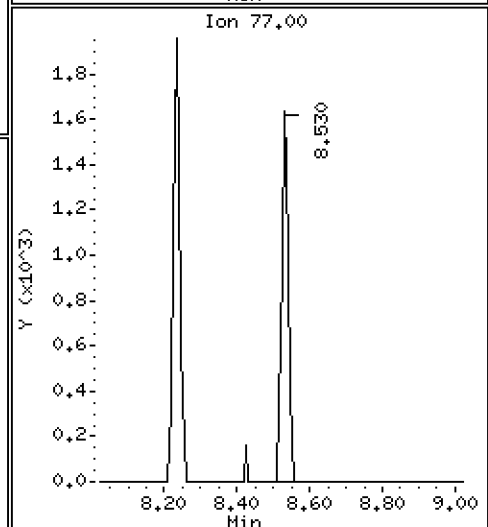
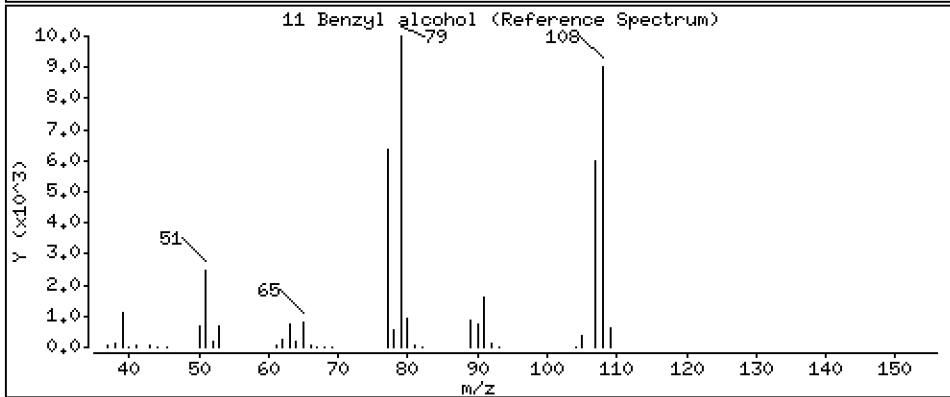
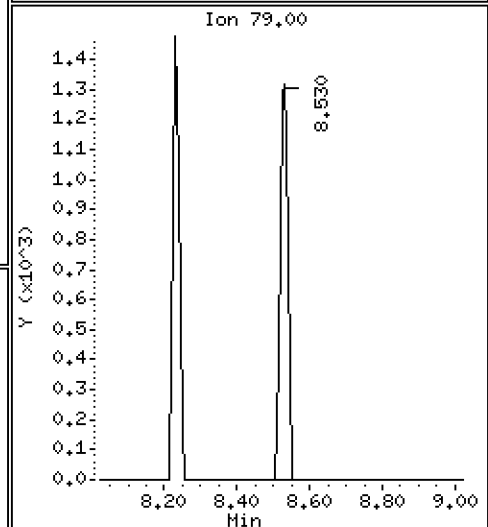
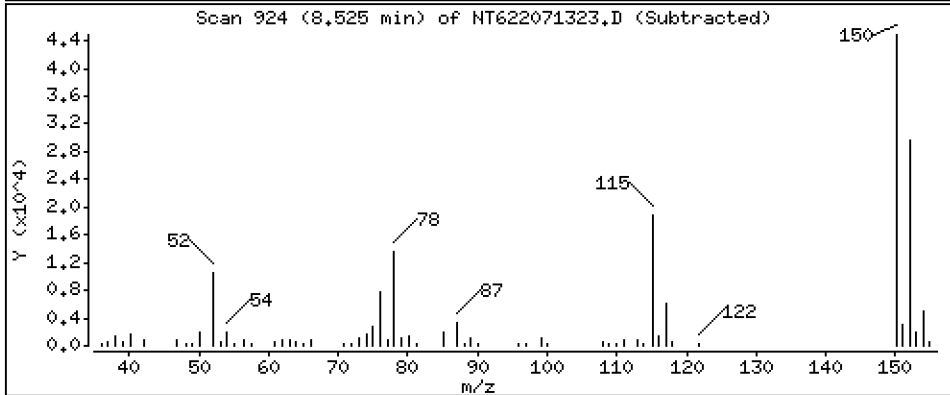
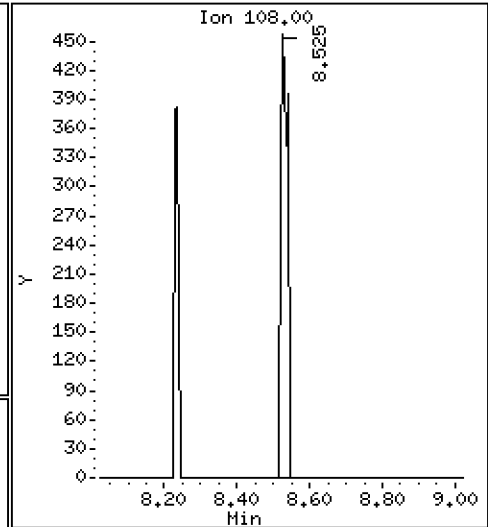
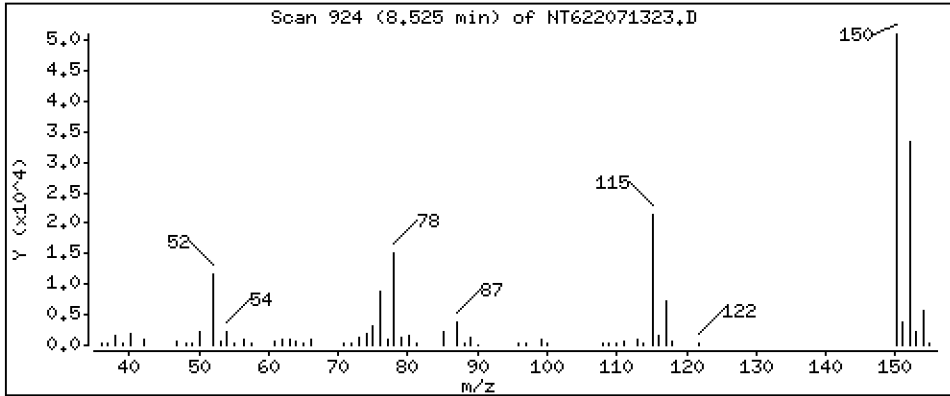
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

11 Benzyl alcohol

Concentration: 0.2760 ug/mL



Date : 13-JUL-2022 23:13

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BLK1,

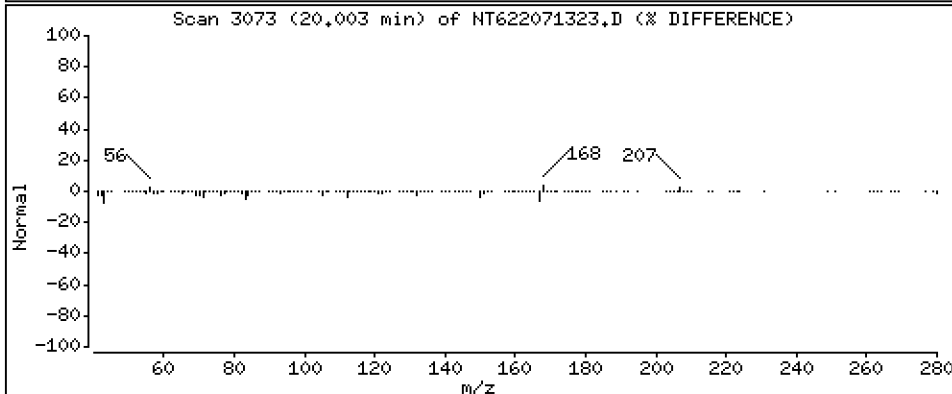
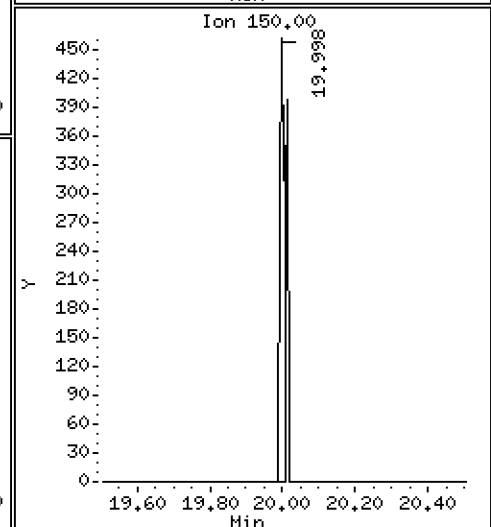
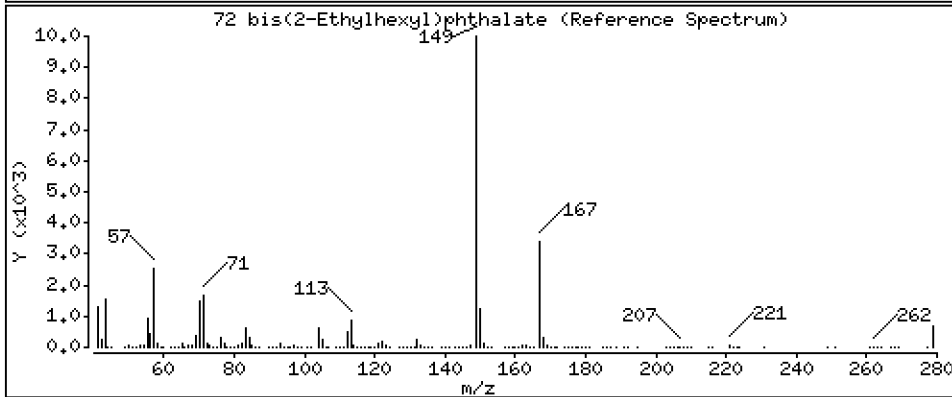
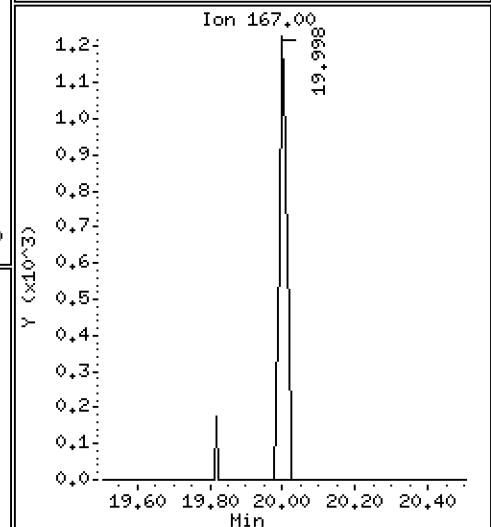
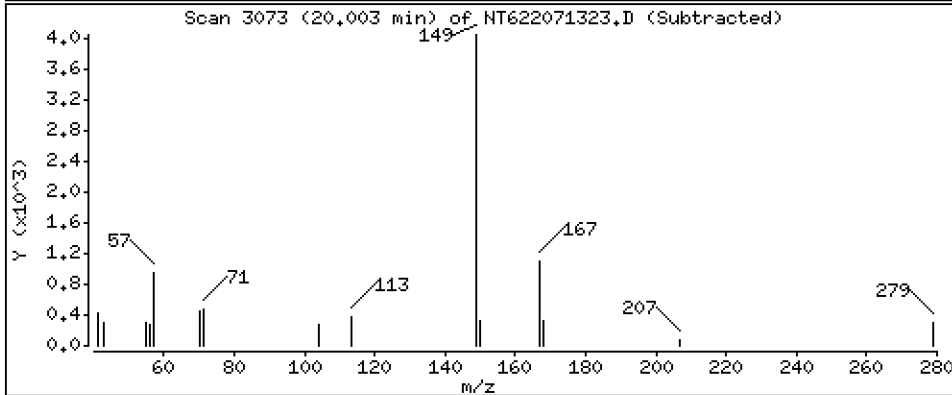
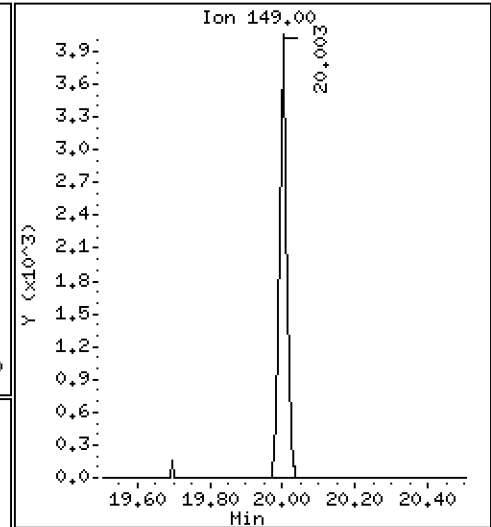
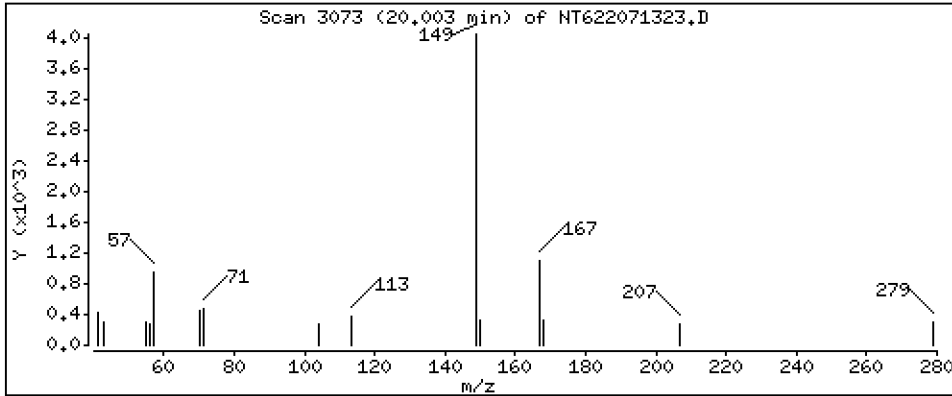
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,7371 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220713A.b\NT622071323.D
 Lab Smp Id: BKG0169-BLK1
 Inj Date : 13-JUL-2022 23:13
 Operator : JZ Inst ID: nt6.i
 Smp Info : BKG0169-BLK1,
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220713A.b\SW84620220516.m
 Meth Date : 14-Jul-2022 10:53 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: LLMDDL.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.308	6.309	(0.766)	133104	37.1568	37.16
\$ 2 Phenol-d5	99		7.820	7.826	(0.949)	159281	38.8698	38.87
3 Phenol	94		Compound Not Detected.					
\$ 5 2-Chlorophenol-d4	132		7.948	7.949	(0.965)	144983	39.1447	39.14
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		8.236	8.237	(1.000)	66276	20.0000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		8.530	8.531	(1.036)	63539	23.9711	23.97
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		8.525	8.521	(1.035)	614	0.27602	0.2760
14 2,2'-oxybis(1-Chloropropane)	45		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		9.160	9.161	(0.892)	100154	27.6950	27.70
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		10.266	10.272	(1.000)	235501	20.0000	
28 Naphthalene	128		Compound Not Detected.					
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	141		Compound Not Detected.					
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====	=====	=====	=====	=====	=====	=====	=====
34 2,4,6-Trichlorophenol	196					Compound Not Detected.		
35 2,4,5-Trichlorophenol	196					Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172		12.055	12.056	(0.919)	234807	26.0923	26.09
37 2-Chloronaphthalene	162					Compound Not Detected.		
38 2-Nitroaniline	65					Compound Not Detected.		
39 Dimethylphthalate	163					Compound Not Detected.		
40 Acenaphthylene	152					Compound Not Detected.		
41 2,6-Dinitrotoluene	165					Compound Not Detected.		
* 42 Acenaphthene-d10	164		13.123	13.125	(1.000)	147929	20.0000	
43 3-Nitroaniline	138					Compound Not Detected.		
44 Acenaphthene	153					Compound Not Detected.		
45 2,4-Dinitrophenol	184					Compound Not Detected.		
46 Dibenzofuran	168					Compound Not Detected.		
47 4-Nitrophenol	109					Compound Not Detected.		
48 2,4-Dinitrotoluene	165					Compound Not Detected.		
50 Diethylphthalate	149					Compound Not Detected.		
49 Fluorene	166					Compound Not Detected.		
51 4-Chlorophenyl-phenylether	204					Compound Not Detected.		
52 4-Nitroaniline	138					Compound Not Detected.		
53 4,6-Dinitro-2-methylphenol	198					Compound Not Detected.		
54 N-Nitrosodiphenylamine	169					Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330		14.416	14.422	(1.098)	58656	46.6008	46.60
56 4-Bromophenyl-phenylether	248					Compound Not Detected.		
57 Hexachlorobenzene	284					Compound Not Detected.		
58 Pentachlorophenol	266					Compound Not Detected.		
* 59 Phenanthrene-d10	188		15.500	15.501	(1.000)	279873	20.0000	
60 Phenanthrene	178					Compound Not Detected.		
61 Anthracene	178					Compound Not Detected.		
62 Carbazole	167					Compound Not Detected.		
63 Di-n-butylphthalate	149					Compound Not Detected.		
64 Fluoranthene	202					Compound Not Detected.		
65 Pyrene	202					Compound Not Detected.		
\$ 66 Terphenyl-d14	244		18.139	18.140	(0.915)	365683	31.2720	31.27
67 Butylbenzylphthalate	149					Compound Not Detected.		
68 Benzo(a)anthracene	228					Compound Not Detected.		
* 69 Chrysene-d12	240		19.816	19.817	(1.000)	245976	20.0000	
70 3,3'-Dichlorobenzidine	252					Compound Not Detected.		
71 Chrysene	228					Compound Not Detected.		
72 bis(2-Ethylhexyl)phthalate	149		20.003	20.004	(0.955)	5508	0.73709	0.7371
* 134 Di-n-octylphthalate-d4	153		20.937	20.939	(1.000)	323007	20.0000	
73 Di-n-octylphthalate	149					Compound Not Detected.		
74 Benzo(b)fluoranthene	252					Compound Not Detected.		
75 Benzo(k)fluoranthene	252					Compound Not Detected.		
76 Benzo(a)pyrene	252					Compound Not Detected.		
* 77 Perylene-d12	264		21.979	21.980	(1.000)	253990	20.0000	
78 Indeno(1,2,3-cd)pyrene	276					Compound Not Detected.		
79 Dibenzo(a,h)anthracene	278					Compound Not Detected.		
80 Benzo(g,h,i)perylene	276					Compound Not Detected.		
90 N-Nitrosodimethylamine	74					Compound Not Detected.		
103 Pyridine	79					Compound Not Detected.		
105 1-methylnaphthalene	141					Compound Not Detected.		
111 Azobenzene (1,2-DP-Hydrazine)	77					Compound Not Detected.		
187 Total Benzofluoranthenes	252					Compound Not Detected.		
144 alpha-Terpineol	59					Compound Not Detected.		

Compounds	QUANT	SIG					CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
=====	=====		=====	=====	=====	=====	(ug/mL)	(ug/mL)
							=====	=====

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 13-JUL-2022
 Lab File ID: NT622071323.D Calibration Time: 22:06
 Lab Smp Id: BKG0169-BLK1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220713A.b\SW84620220516.m
 Misc Info: 22-

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	49157	24579	98314	66276	34.83
27 Naphthalene-d8	173237	86619	346474	235501	35.94
42 Acenaphthene-d10	116765	58383	233530	147929	26.69
59 Phenanthrene-d10	233112	116556	466224	279873	20.06
69 Chrysene-d12	196434	98217	392868	245976	25.22
134 Di-n-octylphthala	268008	134004	536016	323007	20.52
77 Perylene-d12	200282	100141	400564	253990	26.82

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.24	7.74	8.74	8.24	-0.02
27 Naphthalene-d8	10.27	9.77	10.77	10.27	-0.06
42 Acenaphthene-d10	13.13	12.63	13.63	13.12	-0.01
59 Phenanthrene-d10	15.50	15.00	16.00	15.50	-0.01
69 Chrysene-d12	19.82	19.32	20.32	19.82	-0.01
134 Di-n-octylphthala	20.94	20.44	21.44	20.94	-0.01
77 Perylene-d12	21.98	21.48	22.48	21.98	-0.01

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

REVIEW SUMMARY FOR FILE - NT622071323.D

Lab ID: BKG0169-BLK1
nt6.i, SW84620220516.m, 13-JUL-2022 23:13

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, LLMDL.sub = 0.2000

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



LCS / LCS DUPLICATE RECOVERY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: GeoEngineers
Matrix: Water
Batch: BKG0169
Preparation: EPA 3520C (Liq Liq)
Initial/Final: 500 mL / 0.5 mL

SDG: 22G0121
Project: RG Haley Site-Bellingham
Analyzed: 07/13/22 23:47
Laboratory ID: BKG0169-BS1
Sequence Name: LCS

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	Q	LCS % REC. #	QC LIMITS REC.
Naphthalene	25.0	22.4		89.6	40.5 - 120
2-Methylnaphthalene	25.0	23.5		94.1	47.3 - 120
Acenaphthene	25.0	23.0		92.1	50.4 - 120
Pentachlorophenol	65.0	64.6		99.4	40.3 - 128
Phenanthrene	25.0	25.2		101	58.8 - 120
Fluoranthene	25.0	27.7		111	66.7 - 120
Benzo(a)anthracene	25.0	25.5		102	58.3 - 128
Chrysene	25.0	23.4		93.8	58.9 - 120
Benzo(b)fluoranthene	25.0	28.3		113	64.9 - 120
Benzo(k)fluoranthene	25.0	24.7		98.6	63.9 - 120
Benzo(a)pyrene	25.0	25.7		103	70.6 - 120
Indeno(1,2,3-cd)pyrene	25.0	22.9		91.6	46.5 - 120
Dibenzo(a,h)anthracene	25.0	23.2		92.7	49.6 - 120
1-Methylnaphthalene	25.0	25.9		104	46.9 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Naphthalene	25.0	21.8		87.3	2.55	30	40.5 - 120
2-Methylnaphthalene	25.0	23.5		93.9	0.287	30	47.3 - 120
Acenaphthene	25.0	22.6		90.4	1.84	30	50.4 - 120
Pentachlorophenol	65.0	66.8	Q	103	3.29	30	40.3 - 128
Phenanthrene	25.0	25.0		100	0.919	30	58.8 - 120
Fluoranthene	25.0	27.9		112	0.746	30	66.7 - 120
Benzo(a)anthracene	25.0	26.2		105	2.67	30	58.3 - 128
Chrysene	25.0	24.1		96.4	2.76	30	58.9 - 120
Benzo(b)fluoranthene	25.0	29.2		117	3.25	30	64.9 - 120
Benzo(k)fluoranthene	25.0	24.9		99.6	0.961	30	63.9 - 120
Benzo(a)pyrene	25.0	26.2		105	1.79	30	70.6 - 120
Indeno(1,2,3-cd)pyrene	25.0	23.0		91.9	0.344	30	46.5 - 120
Dibenzo(a,h)anthracene	25.0	23.1		92.6	0.168	30	49.6 - 120
1-Methylnaphthalene	25.0	24.9		99.6	3.96	30	46.9 - 120

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt6.1\20220713A,B\NT622071324.D

Date : 13-JUL-2022 23:47

Client ID:

Sample Info: BK00169-BS1,

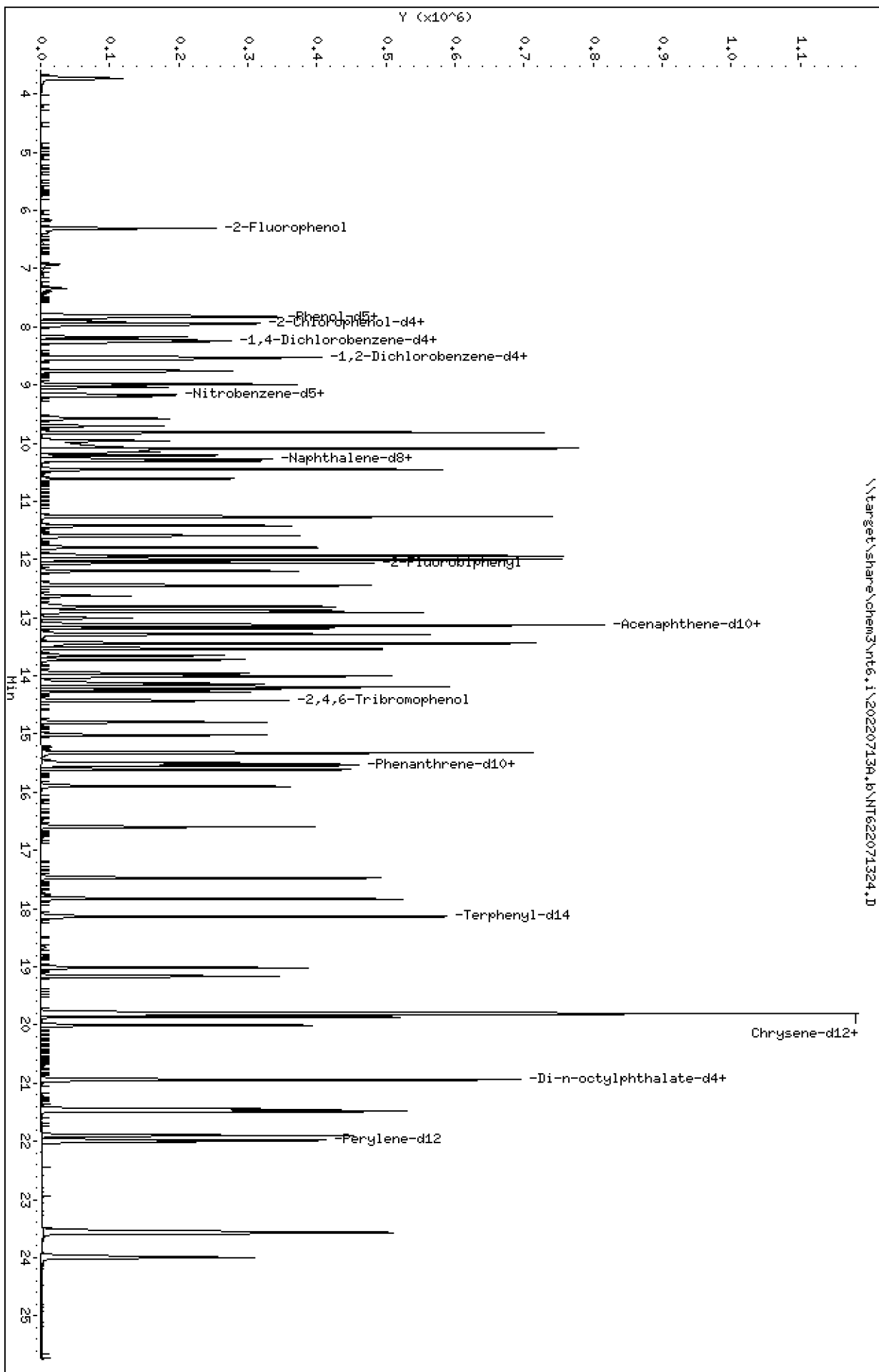
Column phase: ZB-5msi

Instrument: nt6.1

Operator: JZ

Column diameter: 0.32

\\target\share\chem3\nt6.1\20220713A,B\NT622071324.D



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

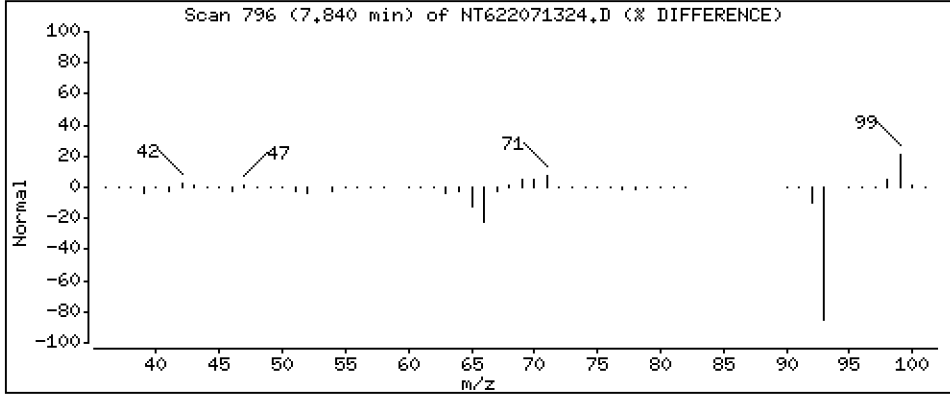
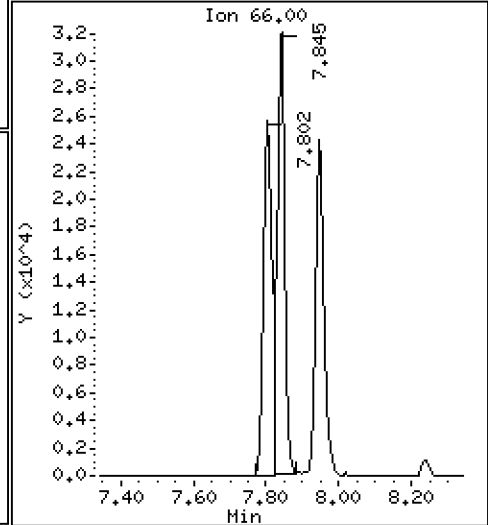
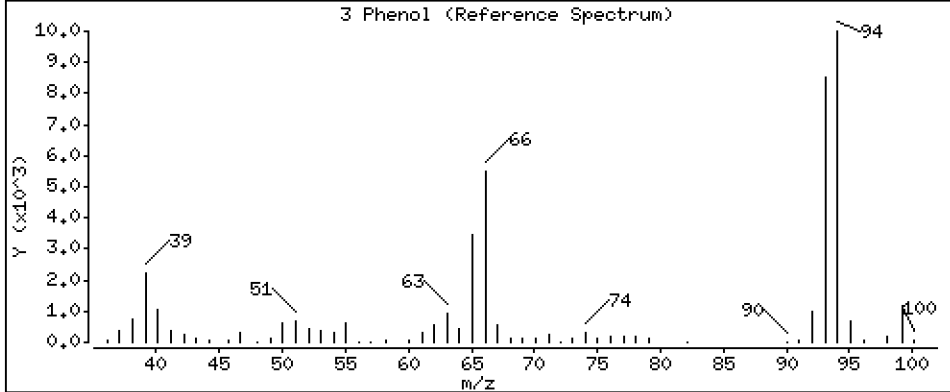
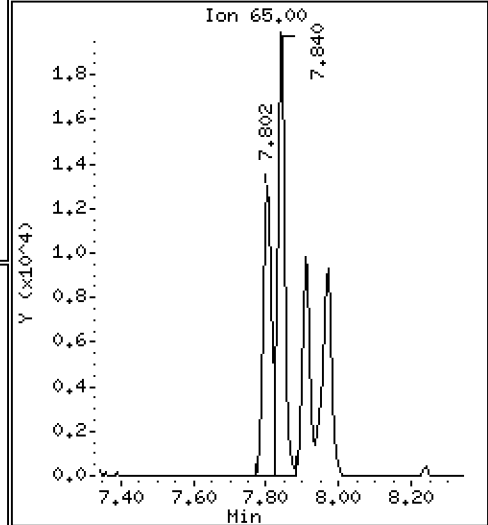
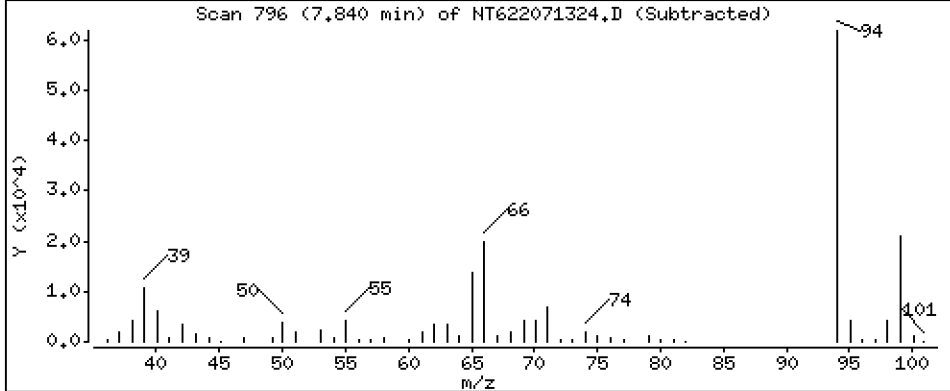
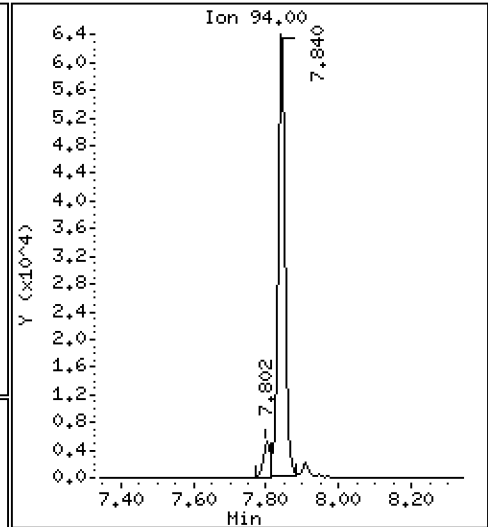
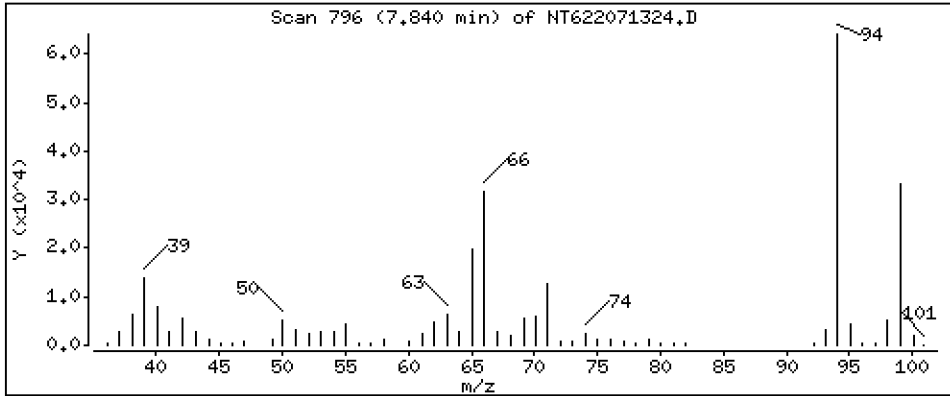
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

3 Phenol

Concentration: 18.08 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

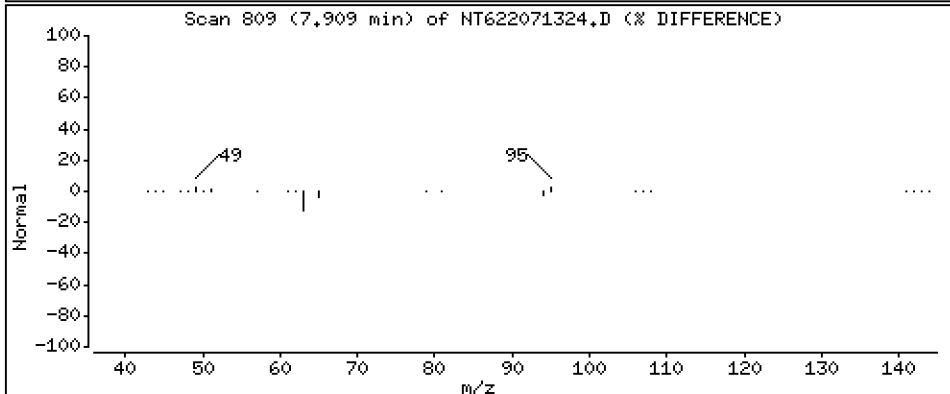
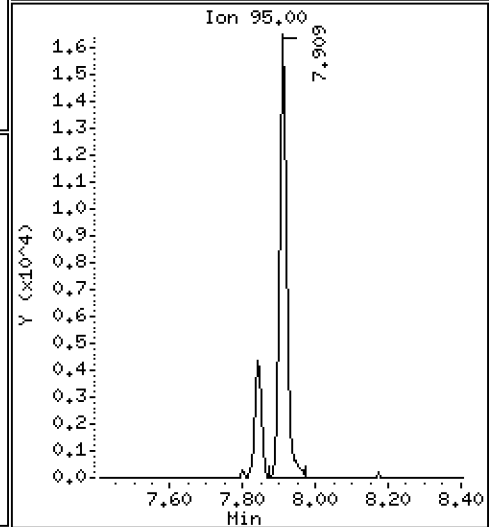
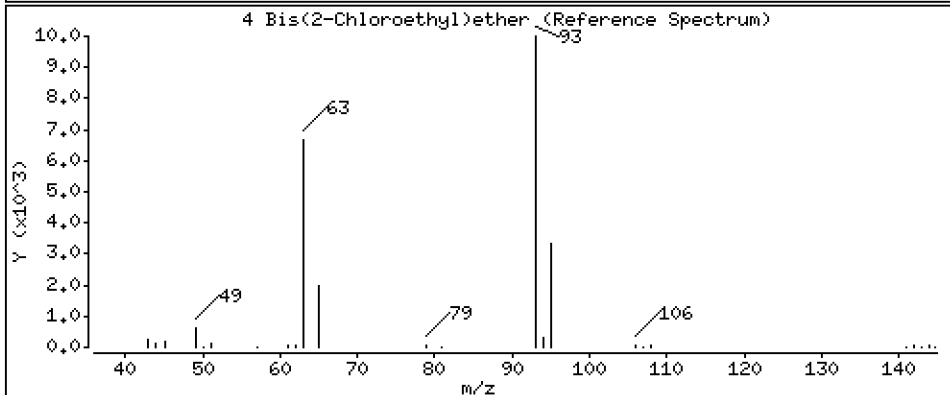
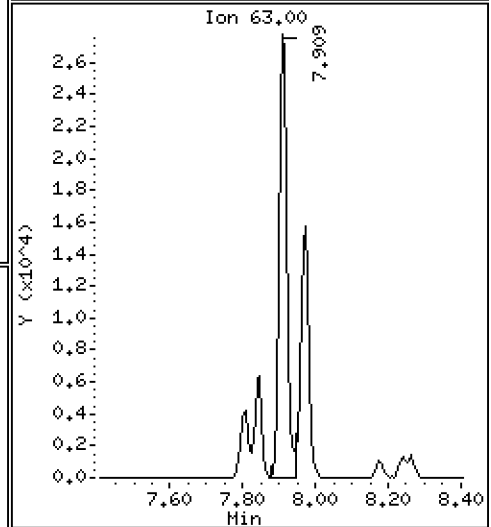
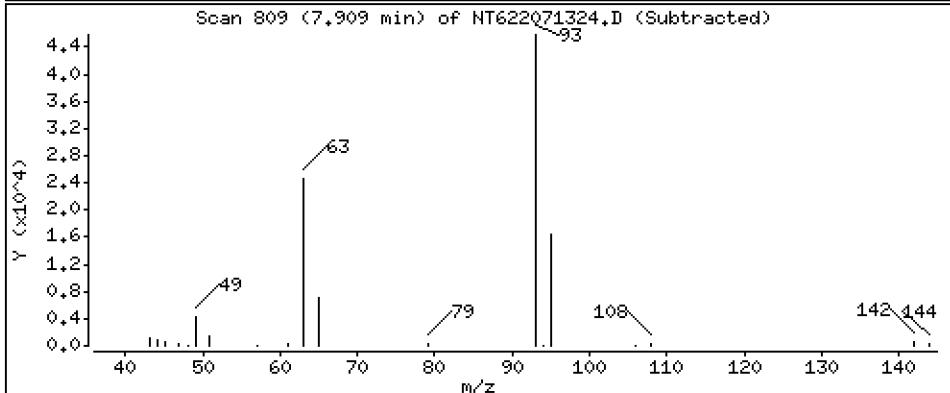
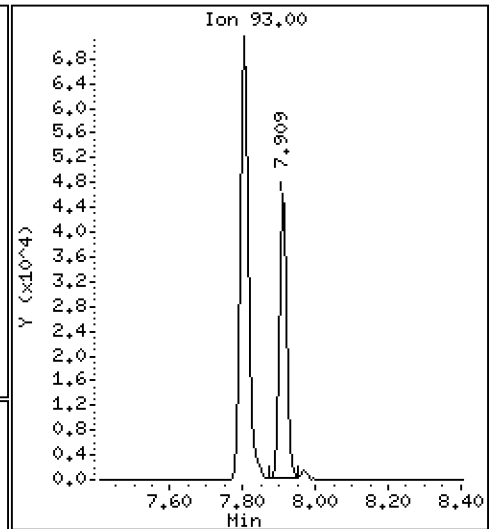
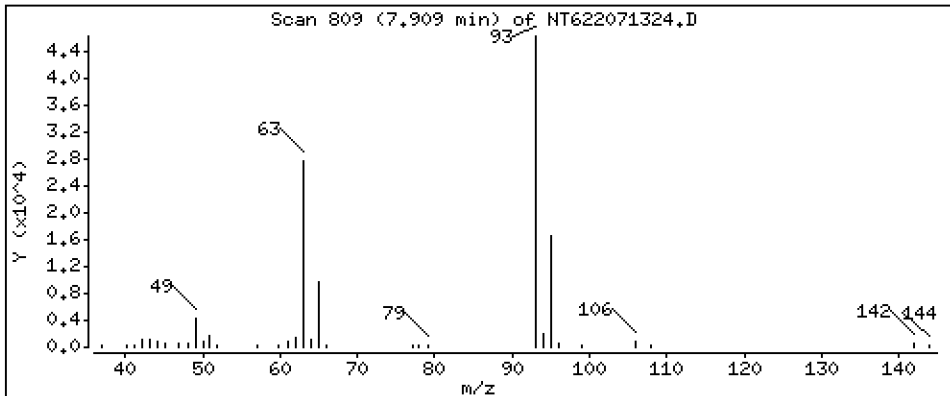
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

4 Bis(2-Chloroethyl)ether

Concentration: 22.74 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

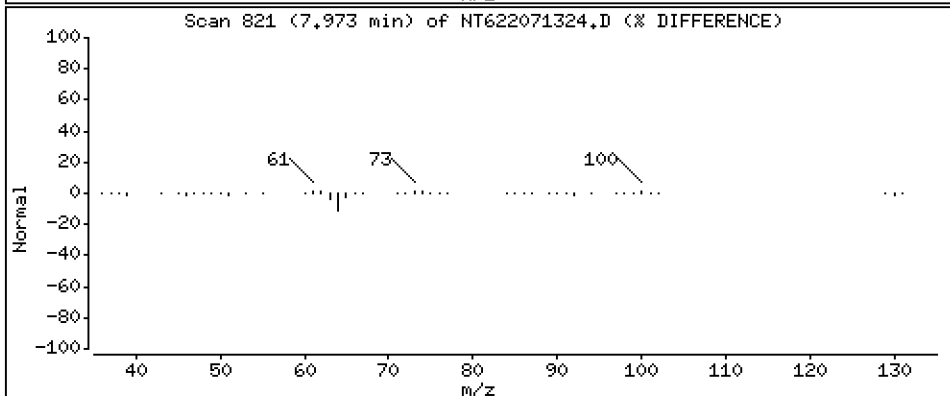
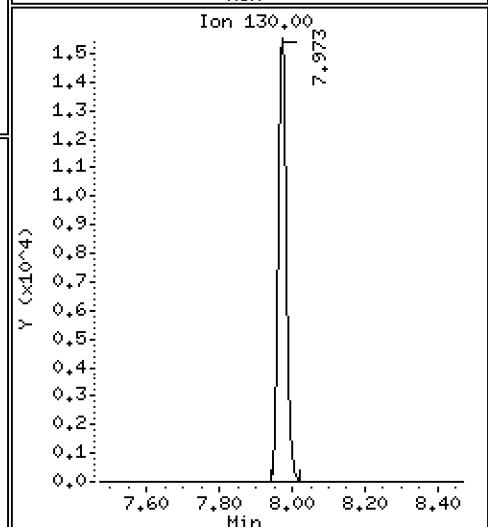
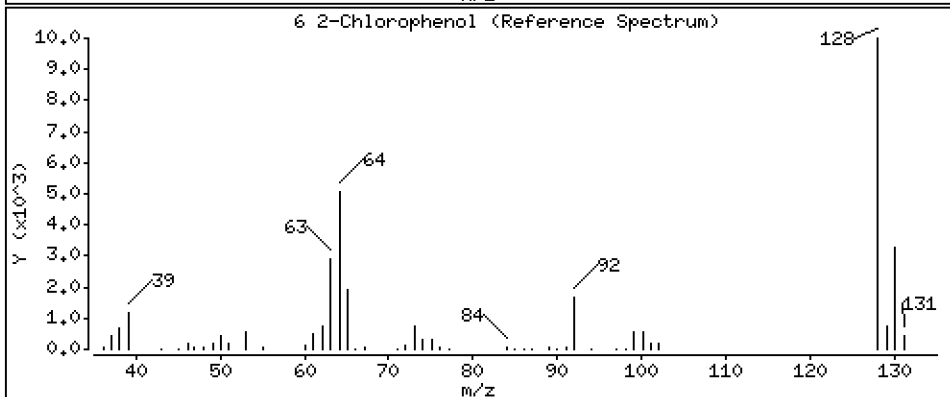
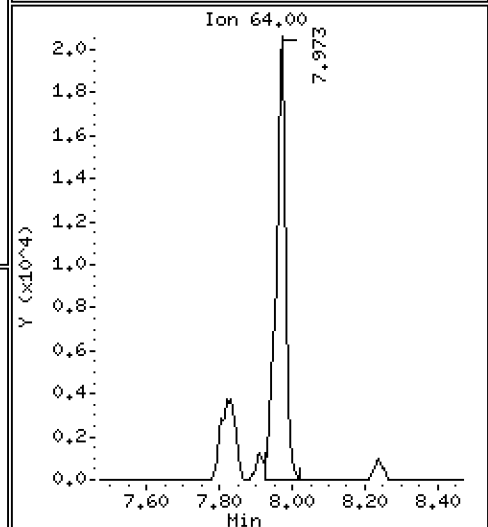
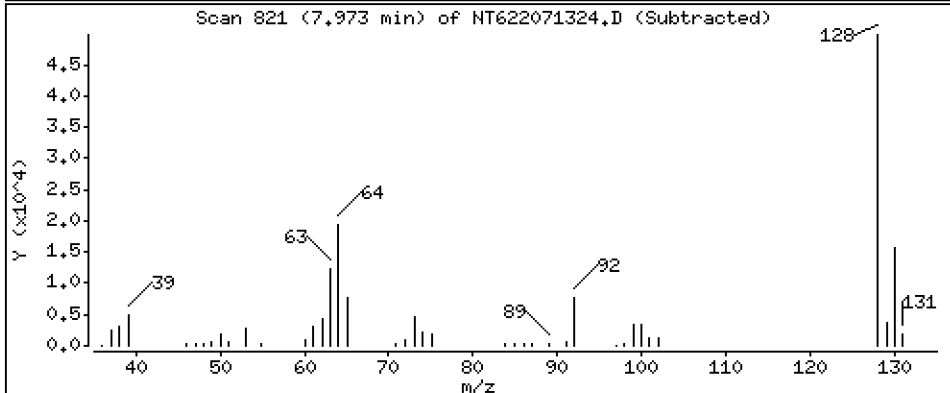
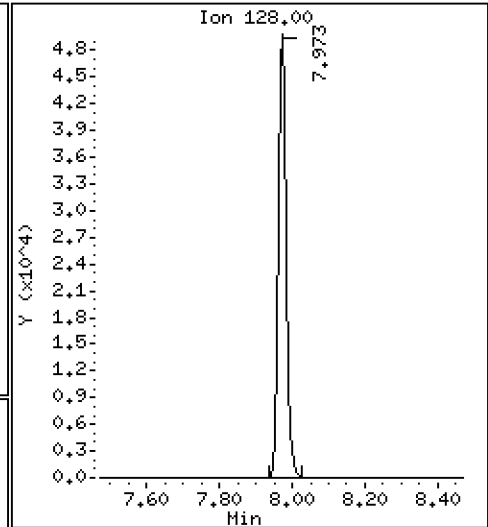
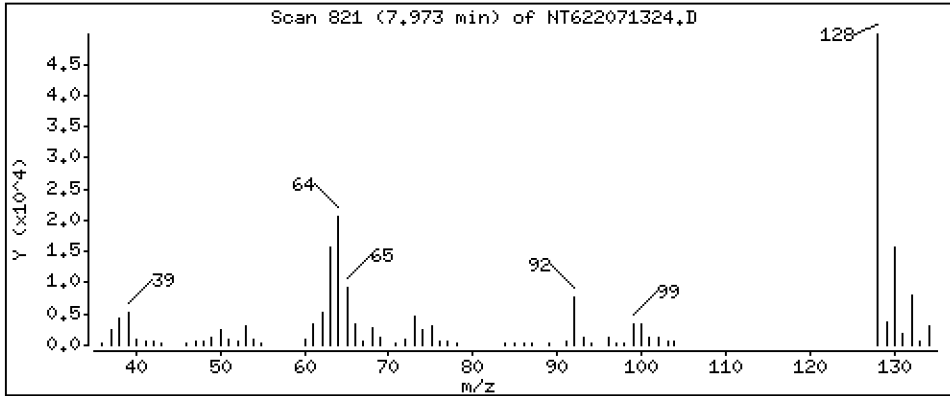
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

6 2-Chlorophenol

Concentration: 19.56 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

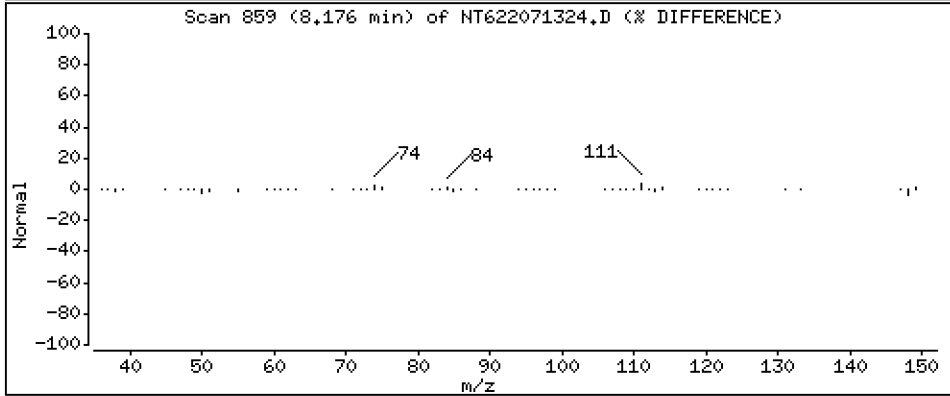
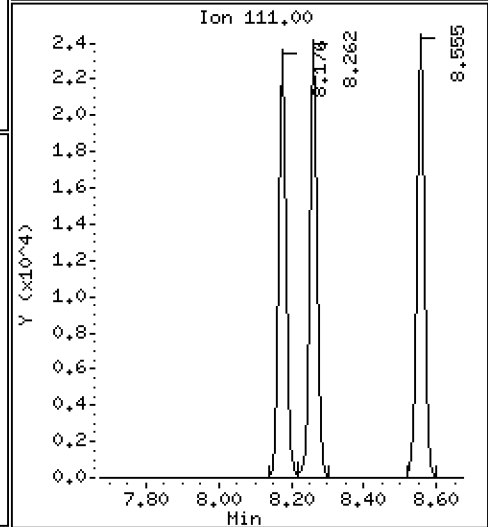
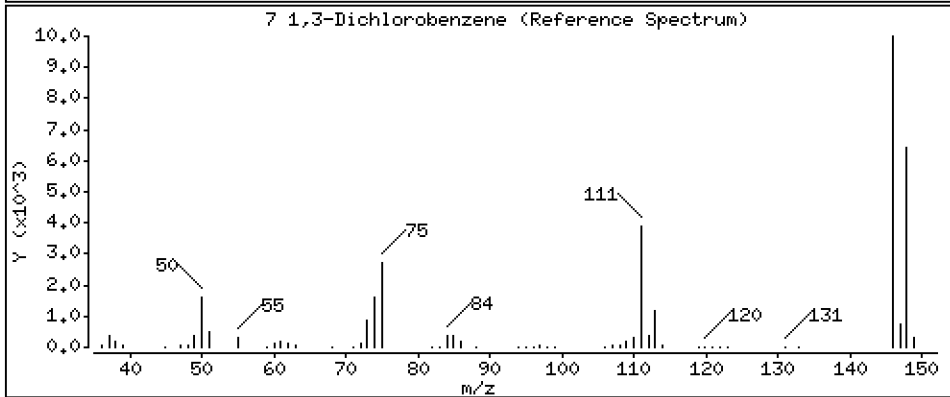
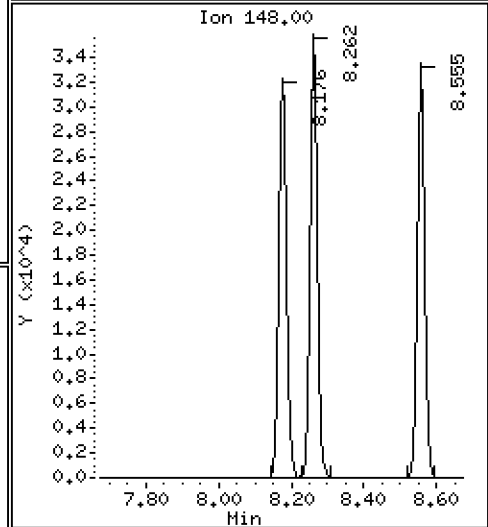
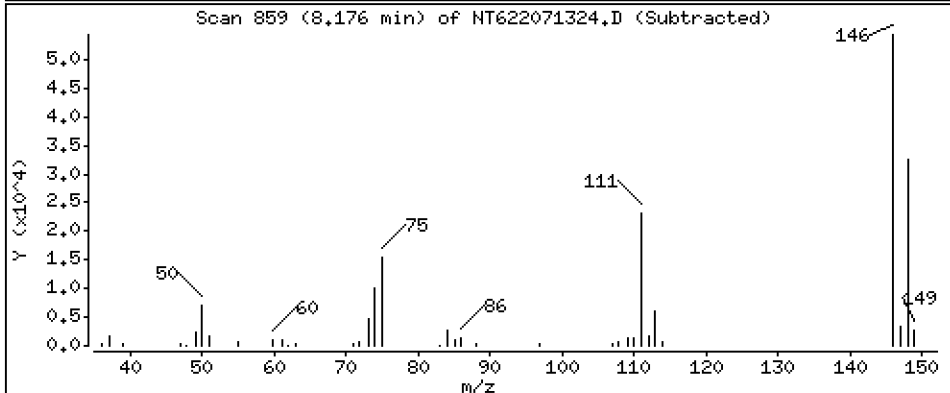
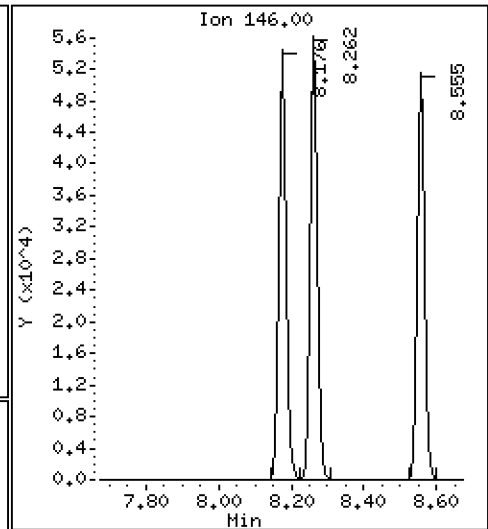
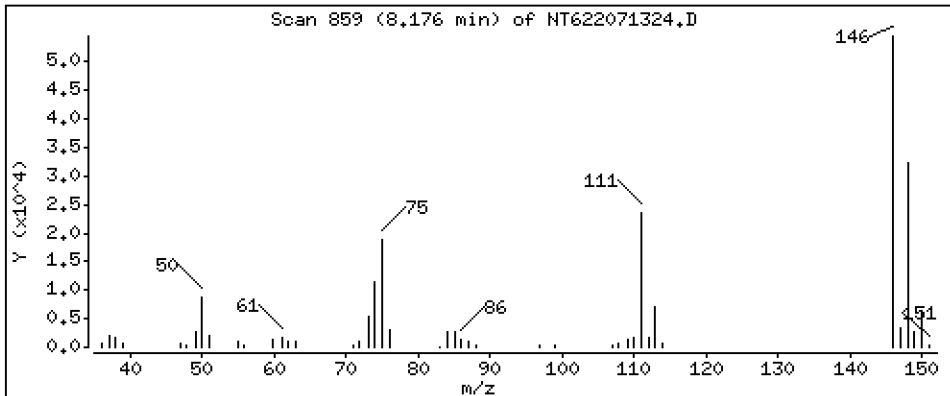
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

7 1,3-Dichlorobenzene

Concentration: 18.81 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

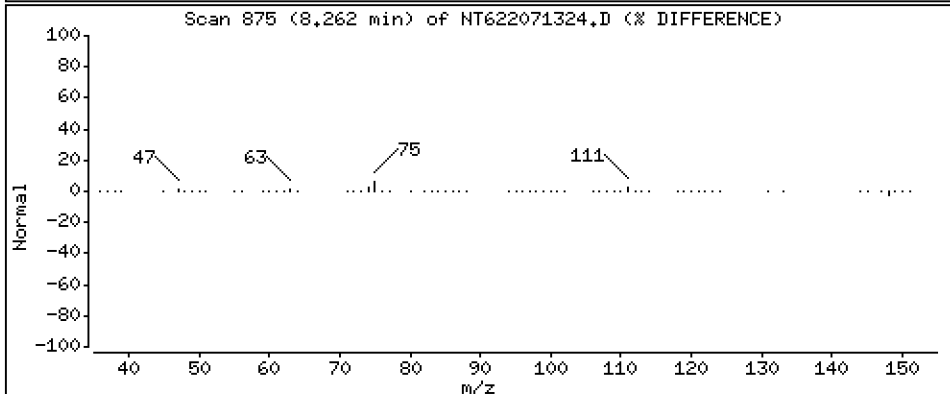
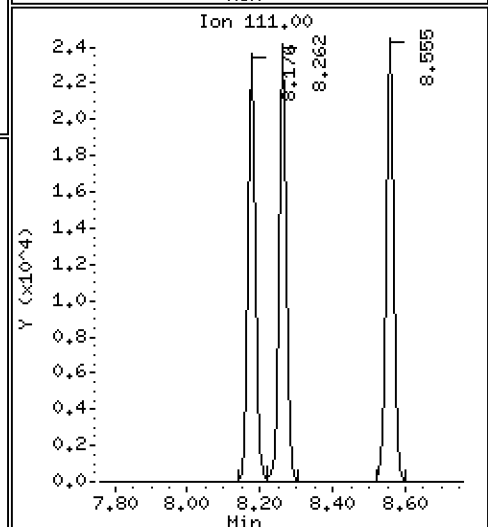
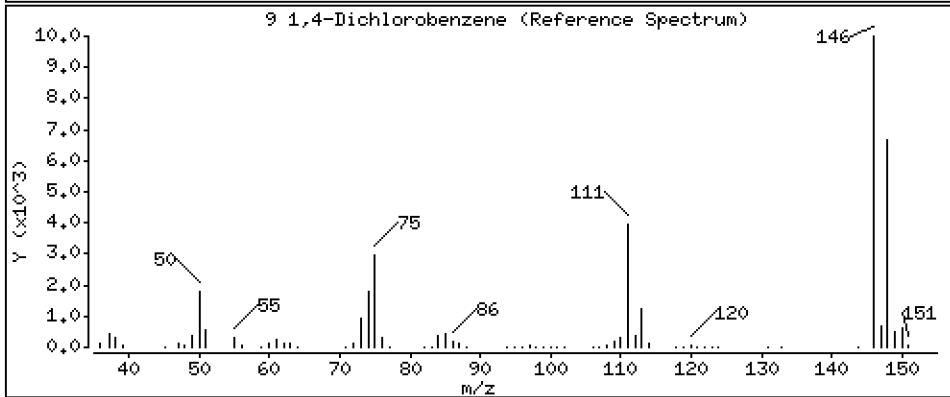
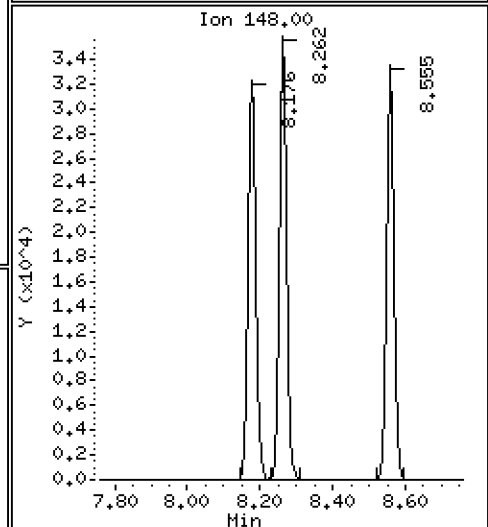
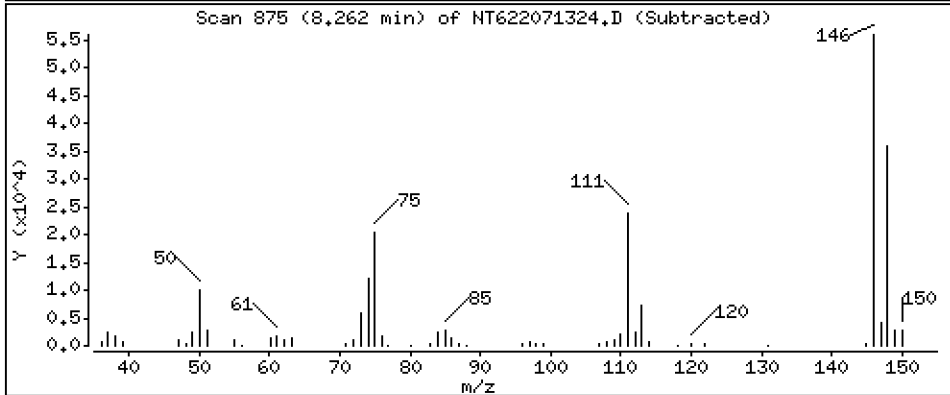
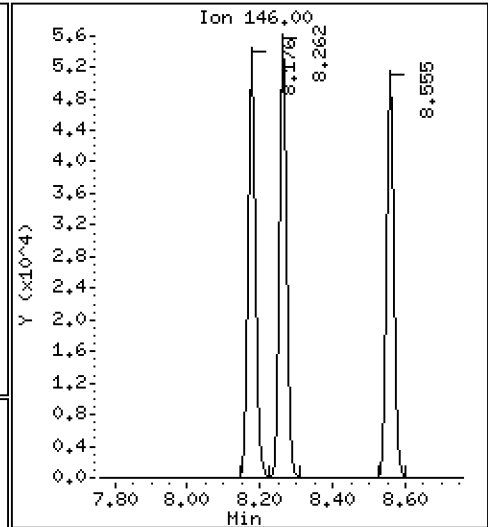
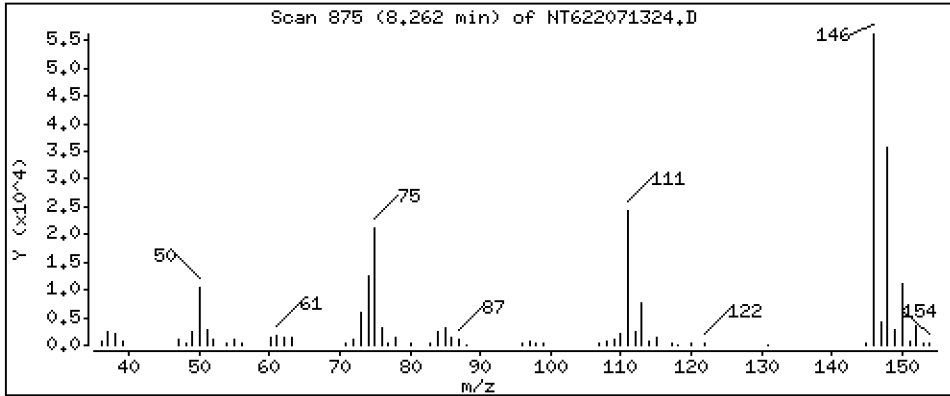
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

9 1,4-Dichlorobenzene

Concentration: 19.74 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

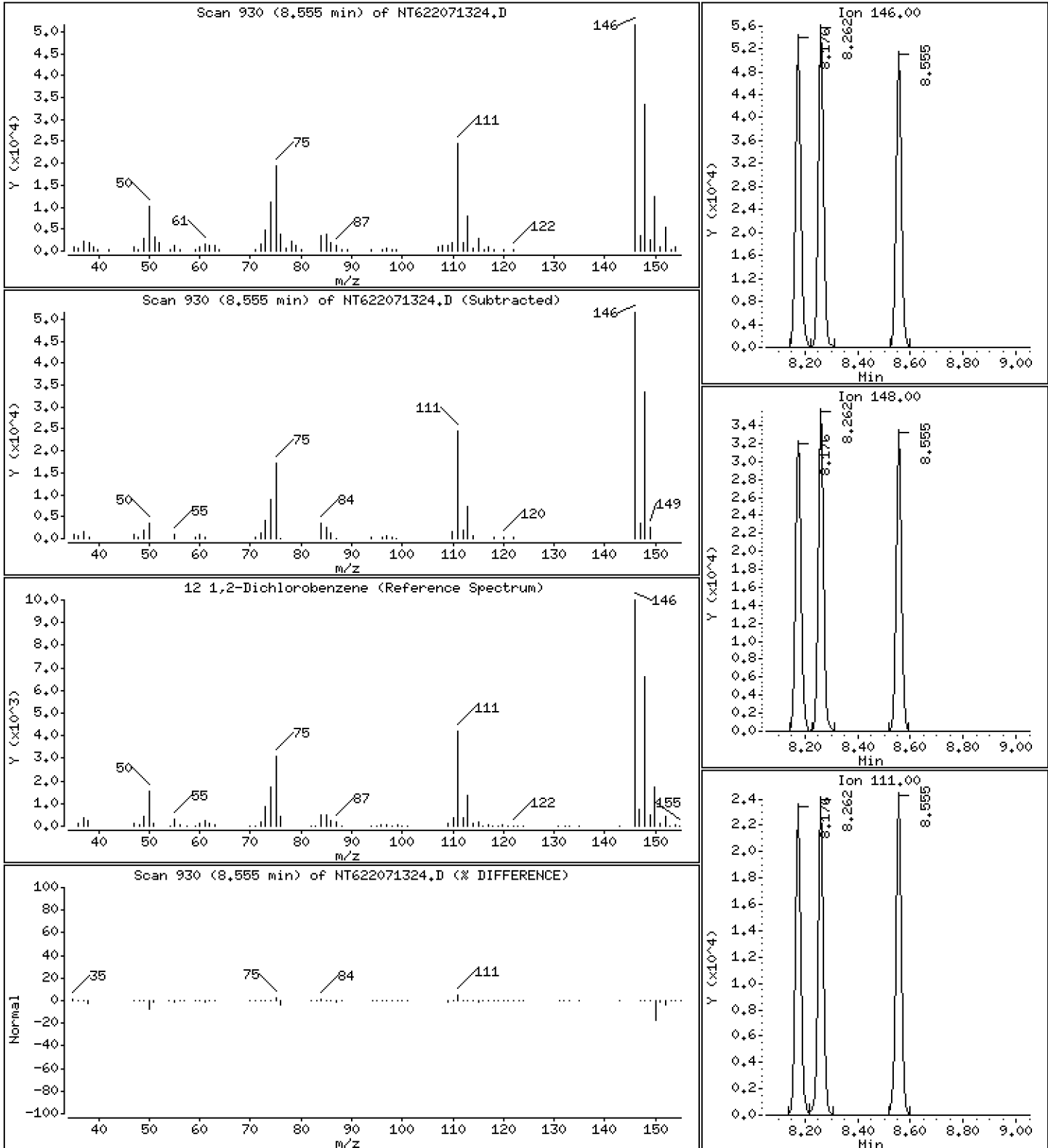
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

12 1,2-Dichlorobenzene

Concentration: 19.44 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

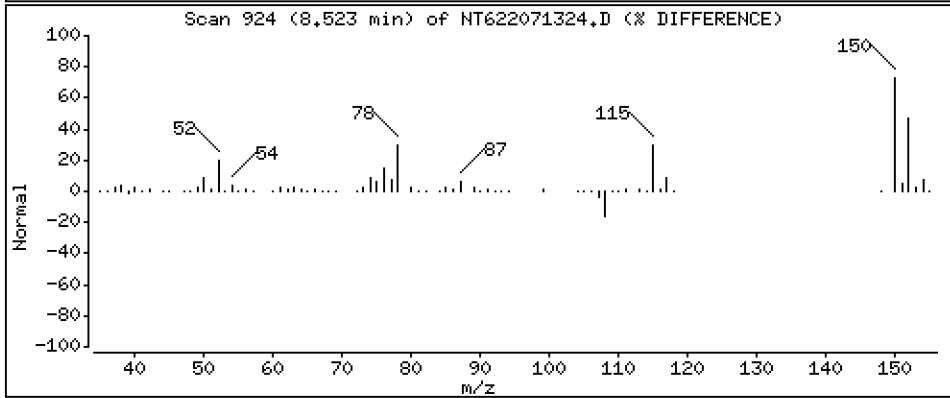
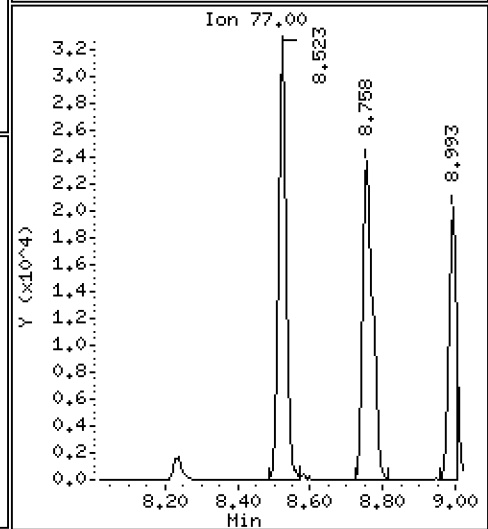
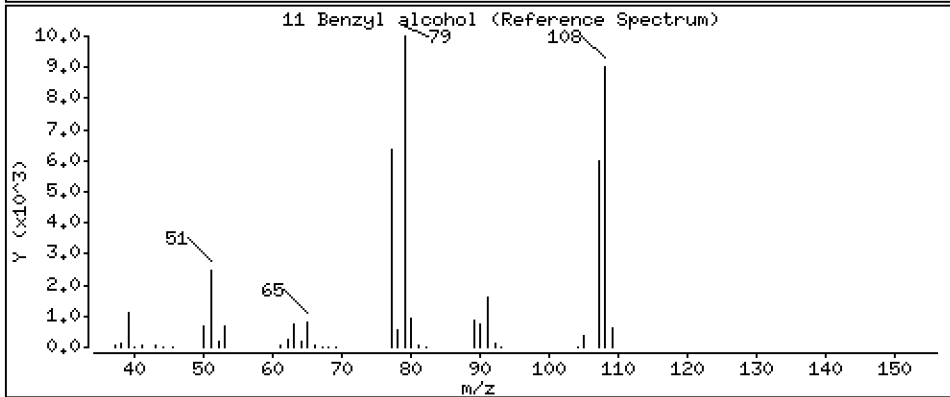
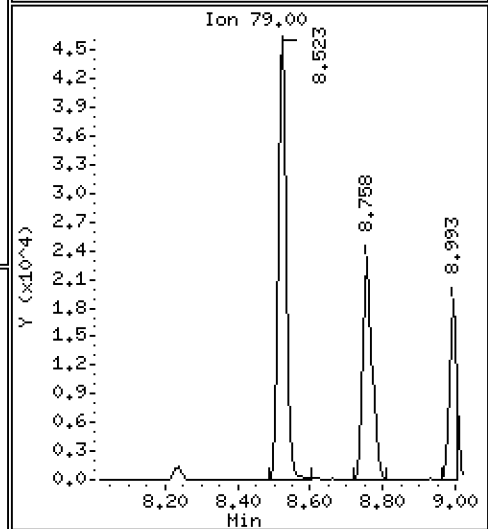
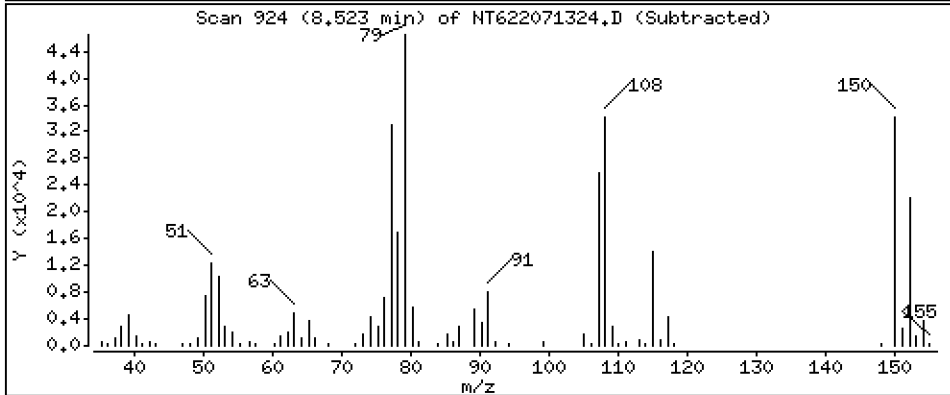
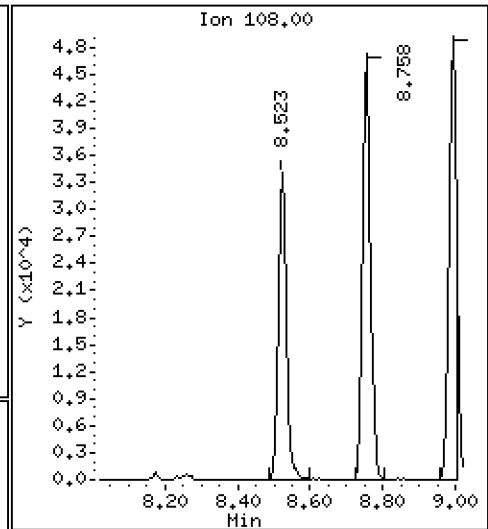
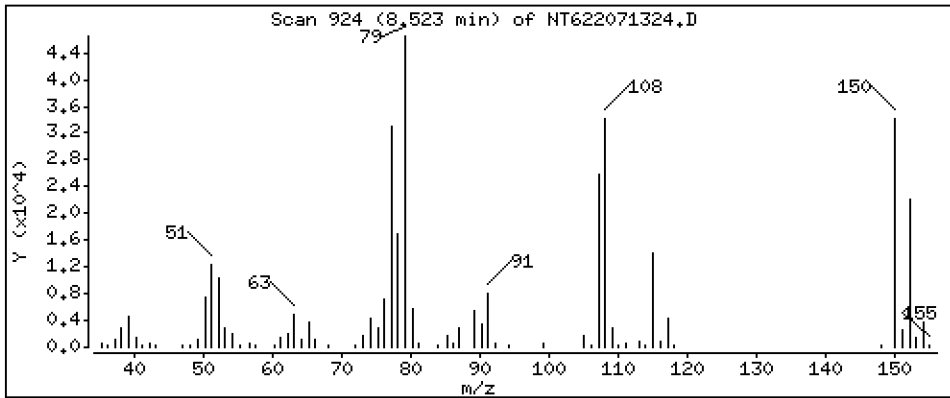
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

11 Benzyl alcohol

Concentration: 24.07 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

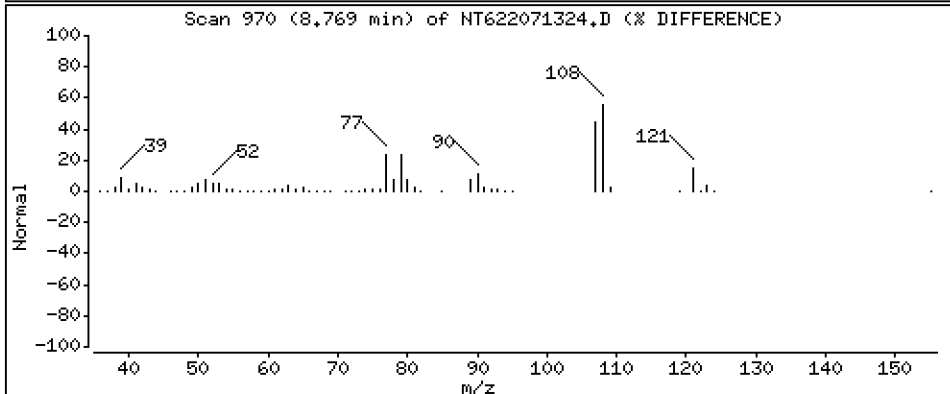
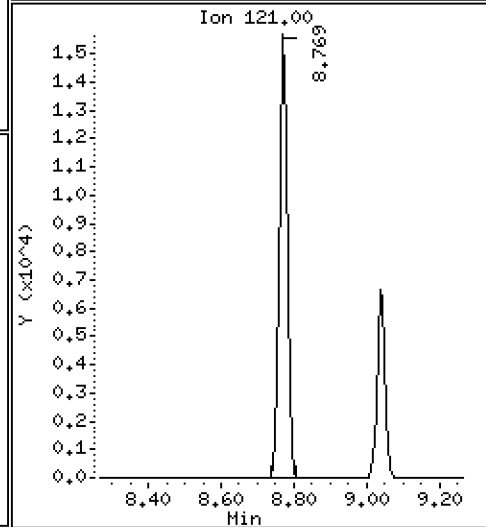
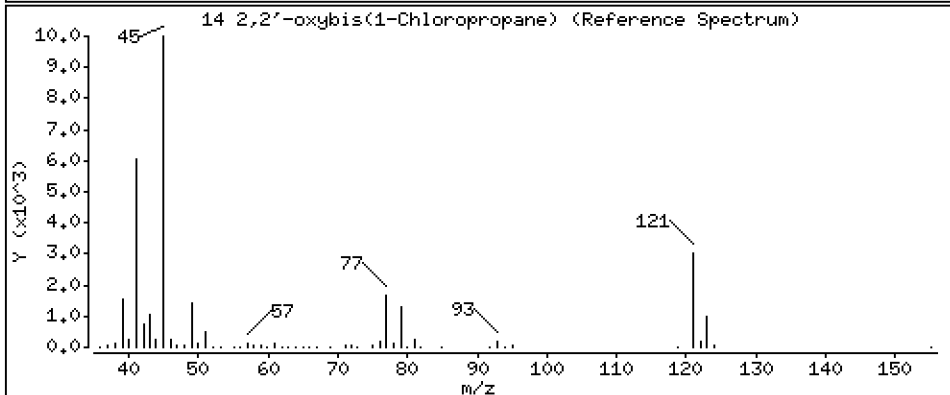
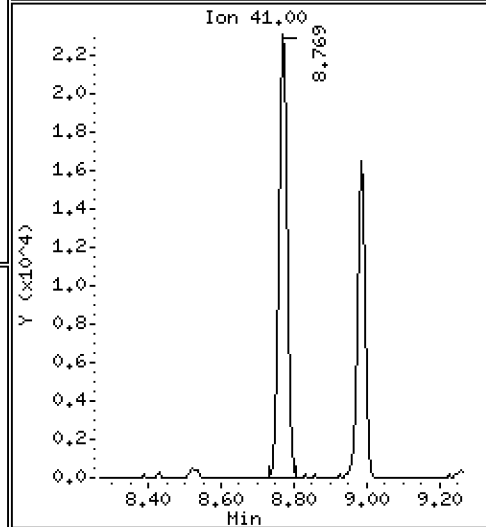
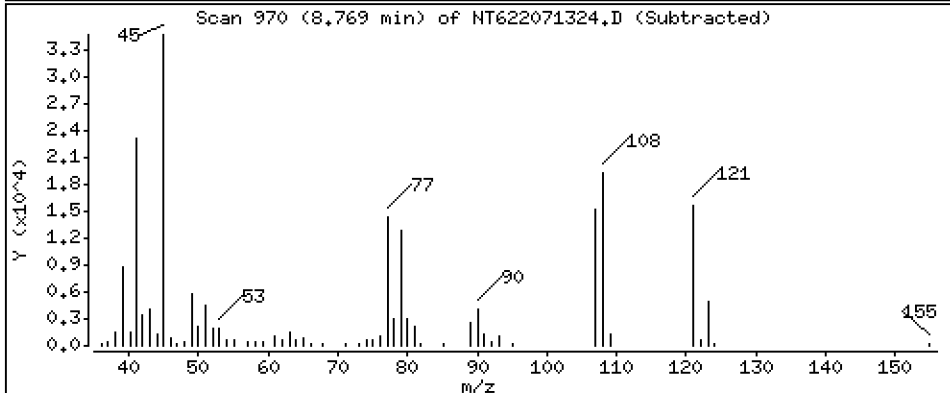
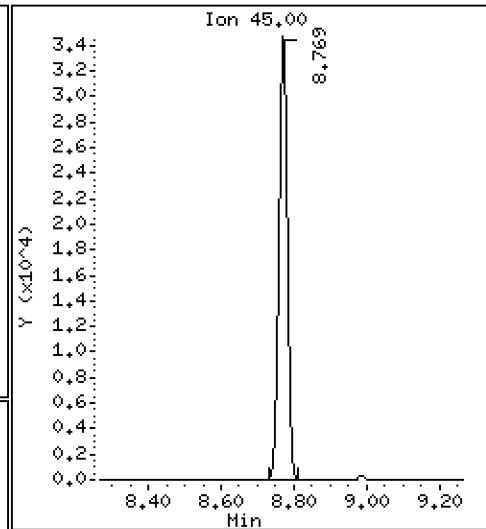
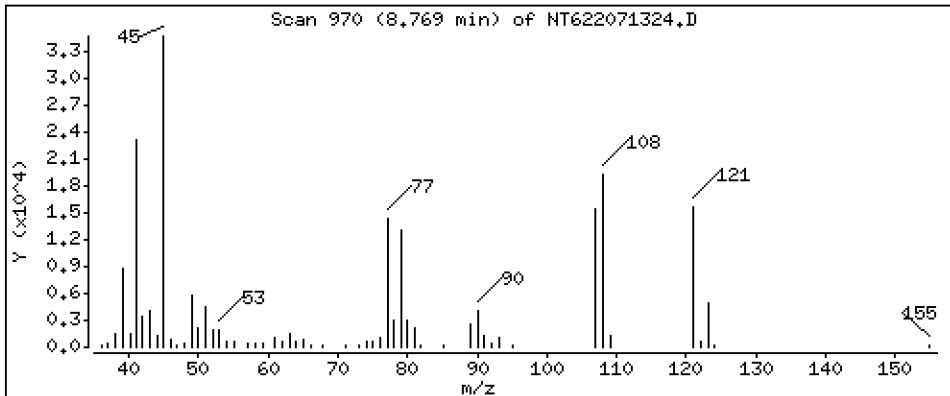
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

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

Concentration: 25.72 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

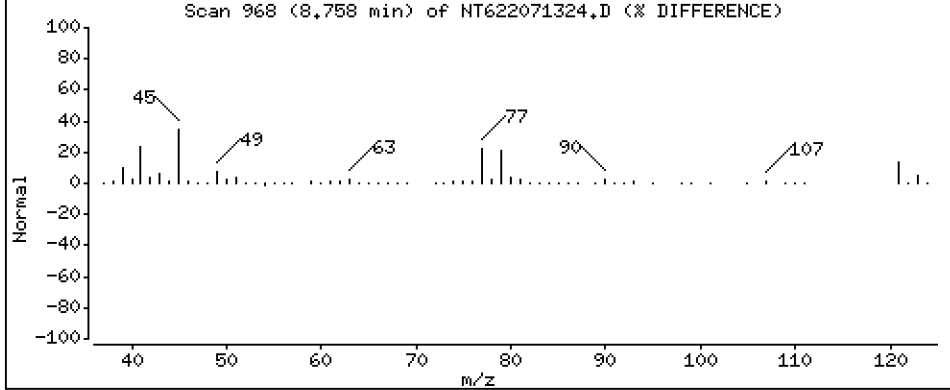
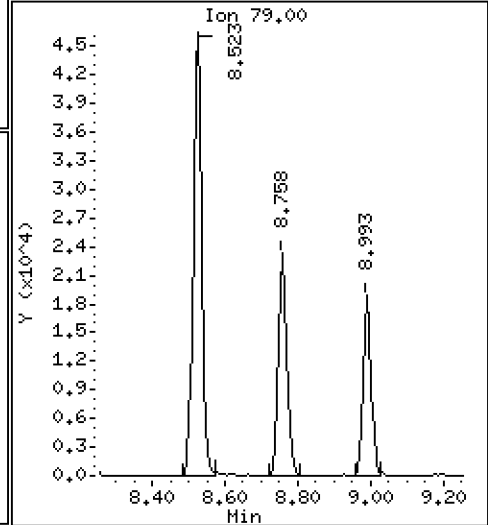
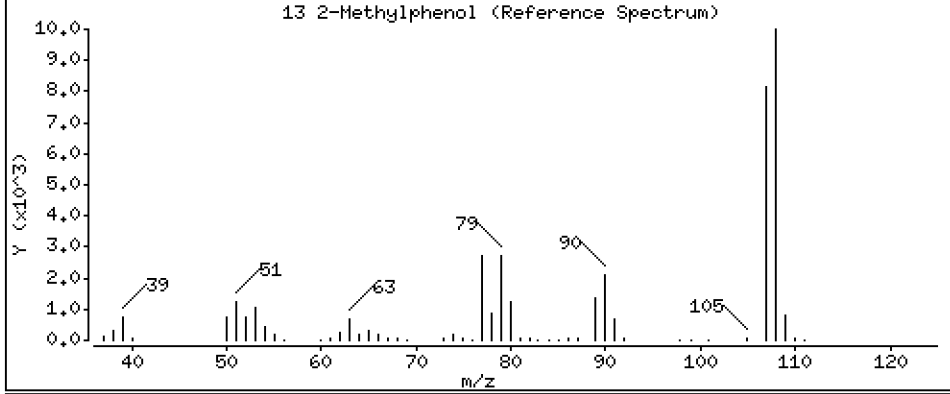
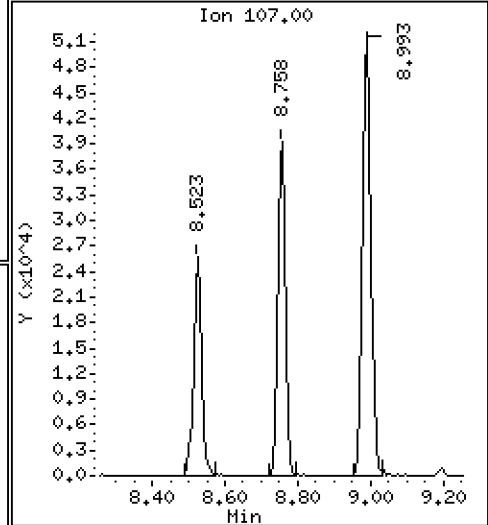
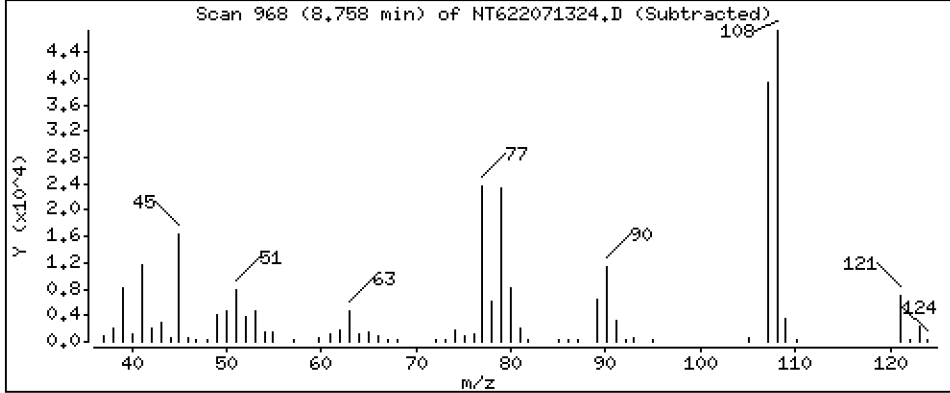
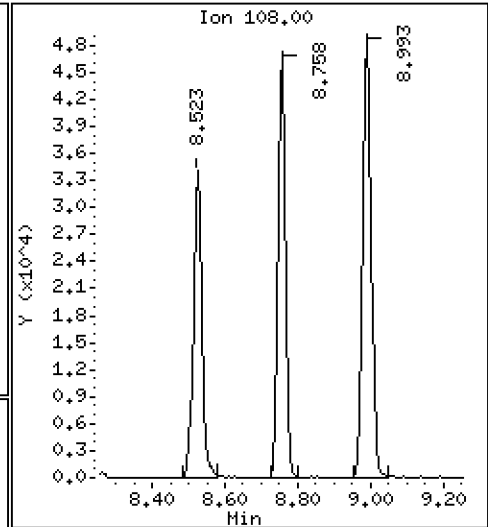
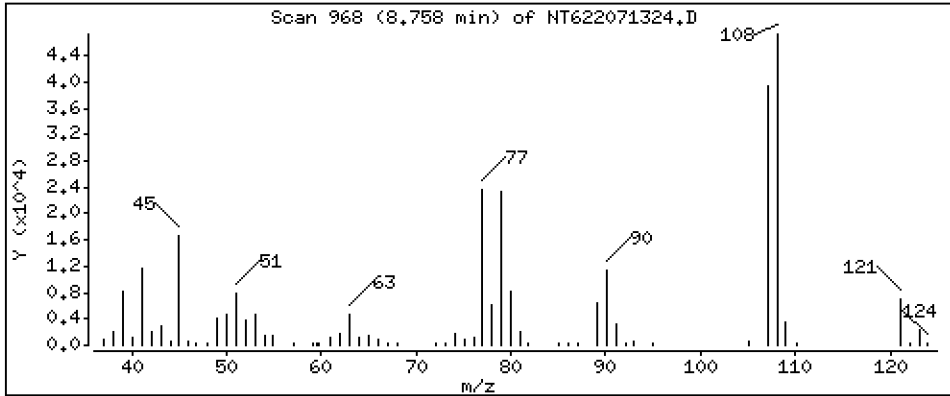
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

13 2-Methylphenol

Concentration: 20.95 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

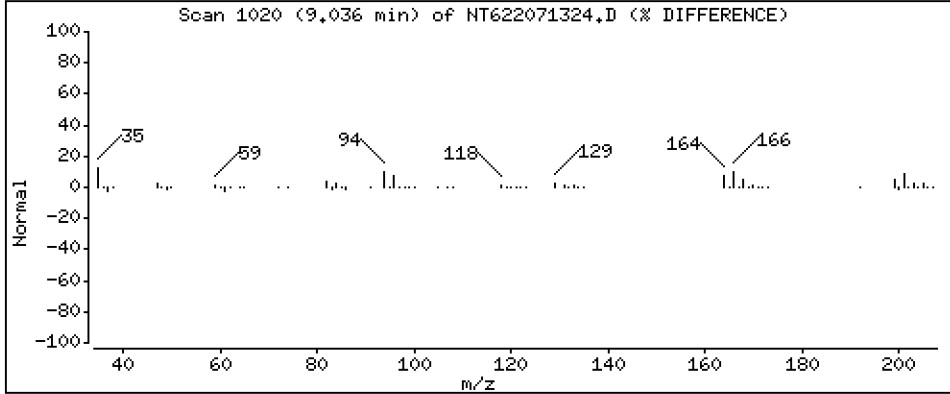
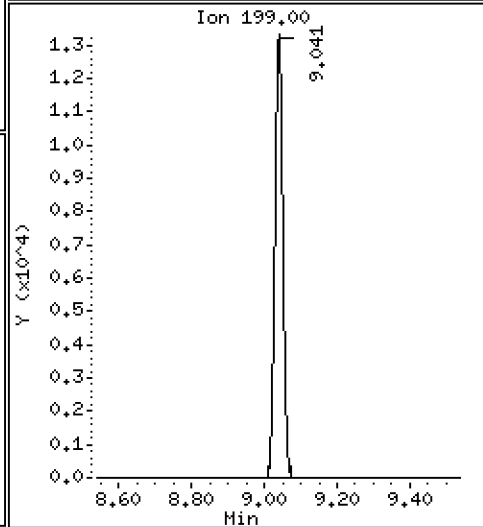
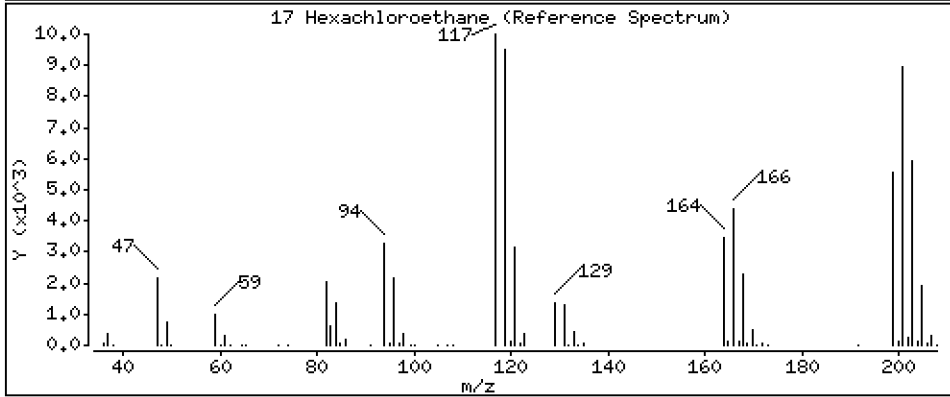
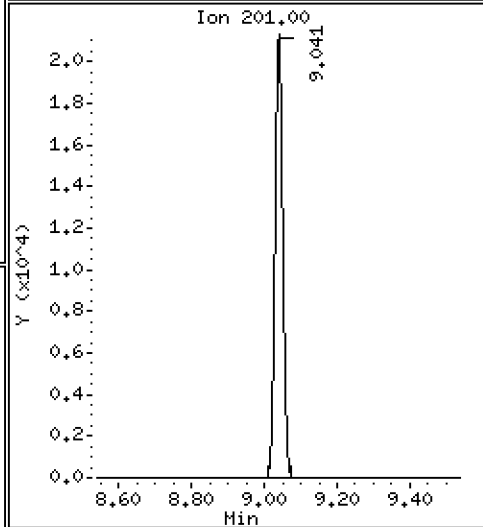
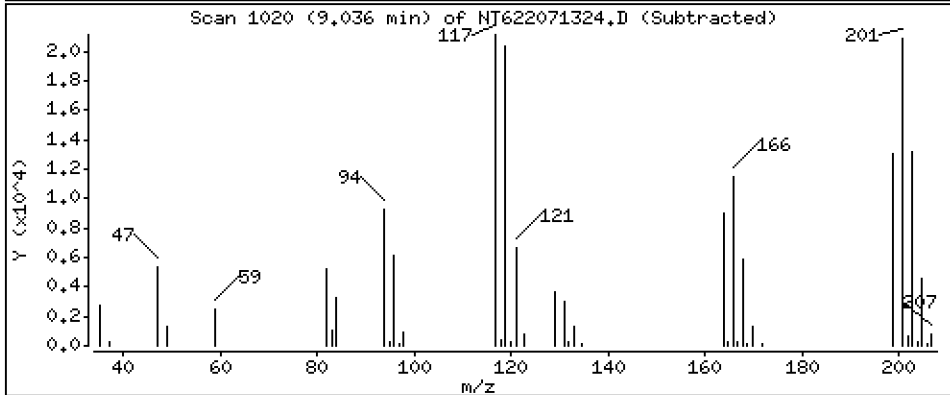
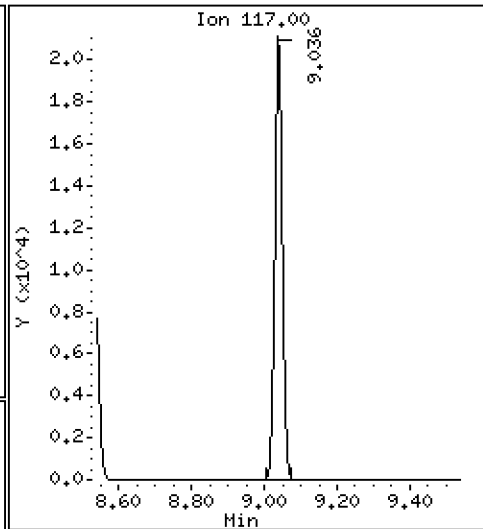
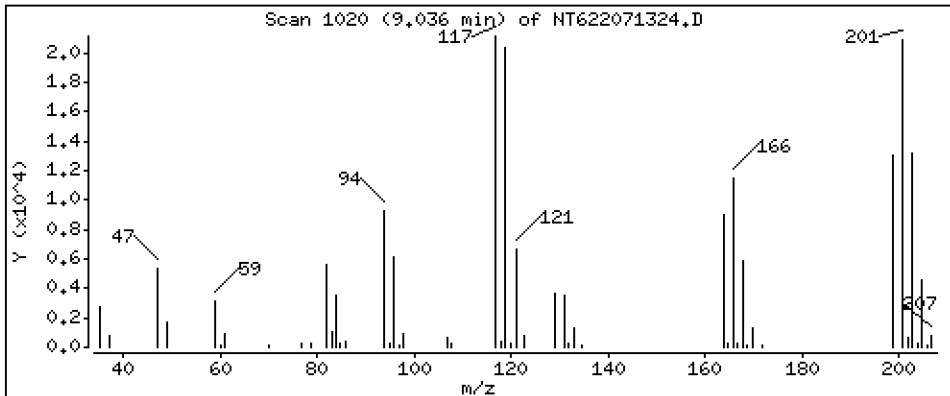
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

17 Hexachloroethane

Concentration: 19.07 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

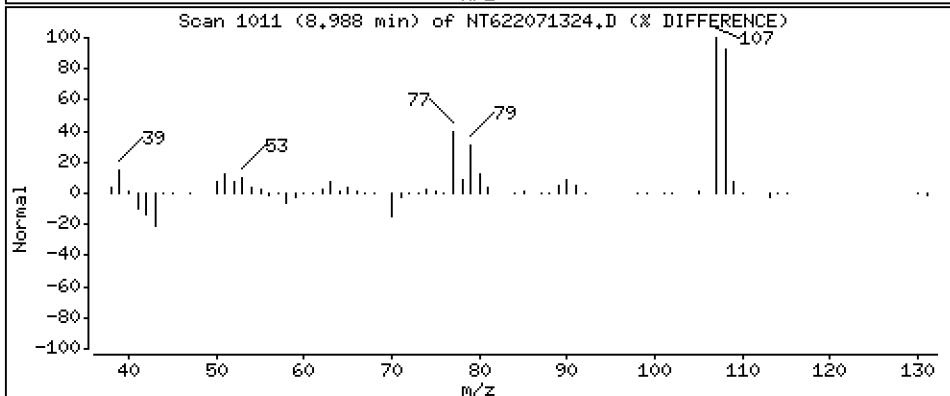
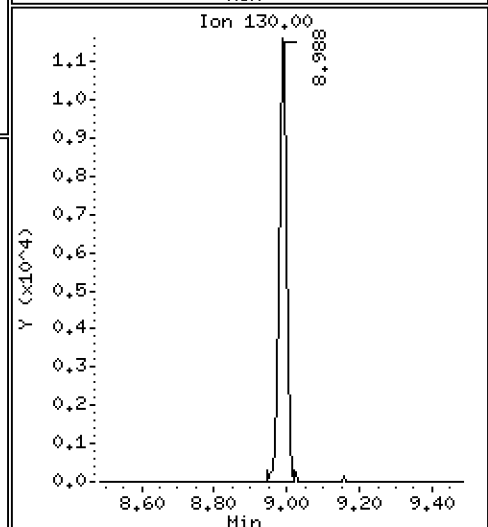
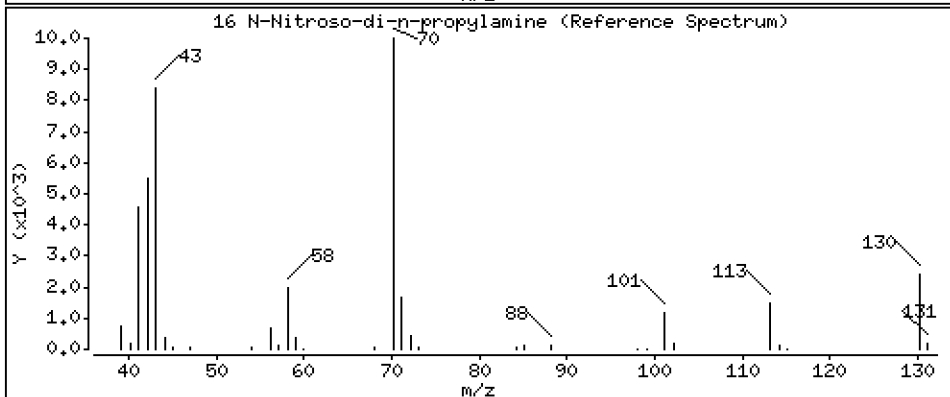
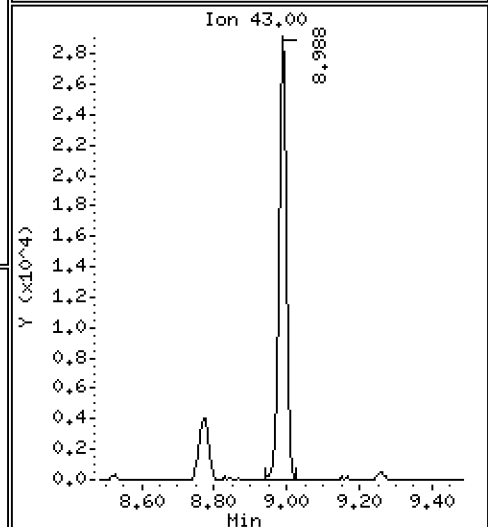
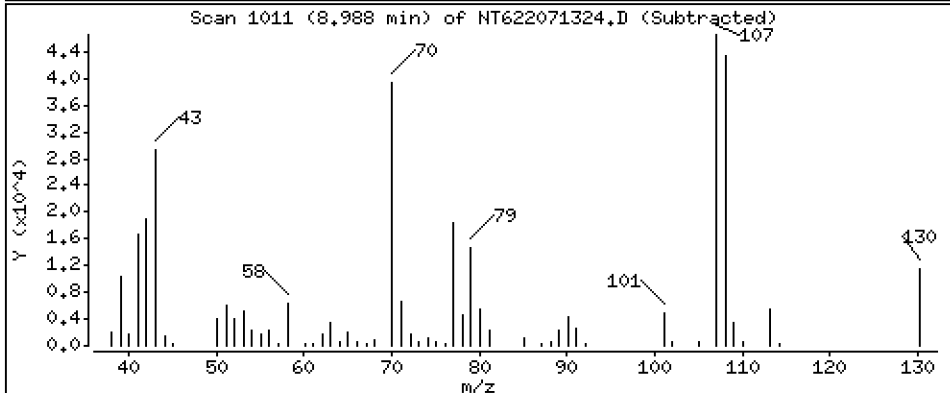
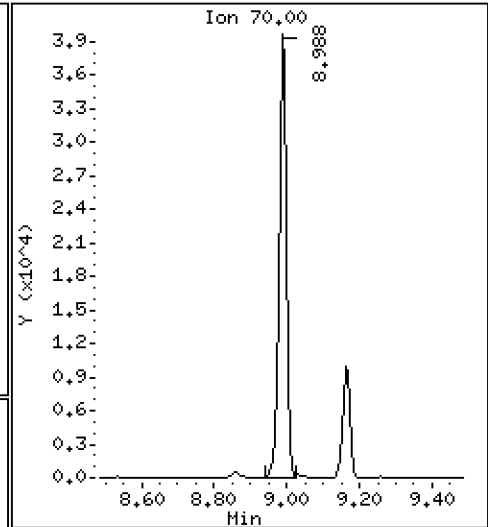
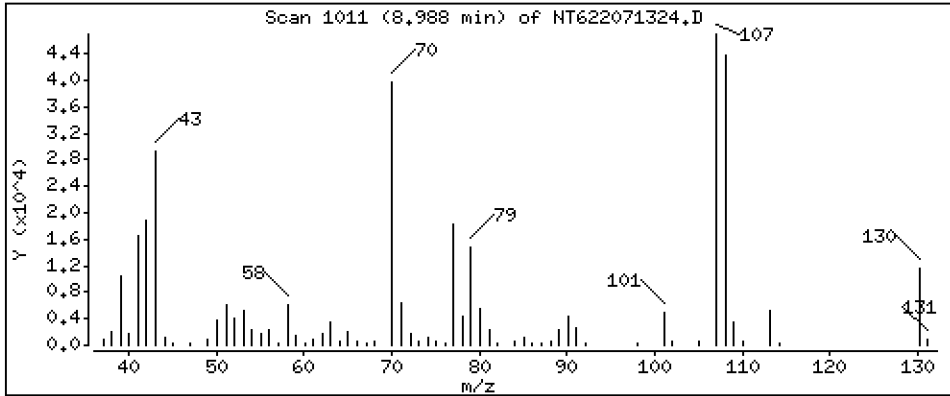
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

16 N-Nitroso-di-n-propylamine

Concentration: 25.55 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

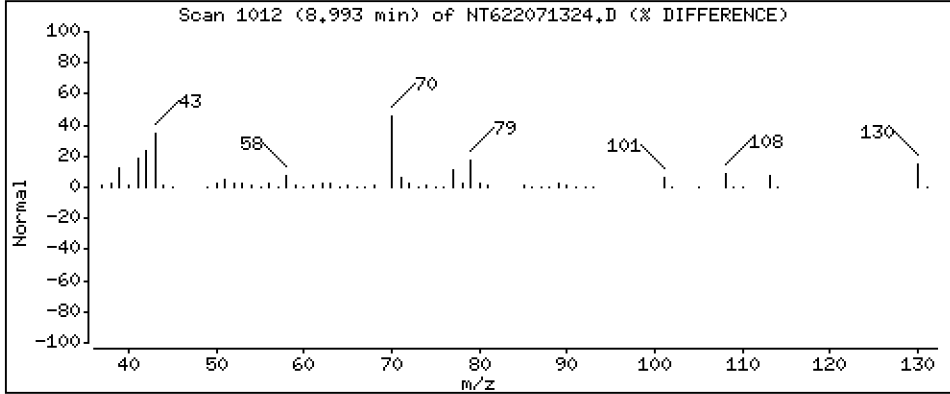
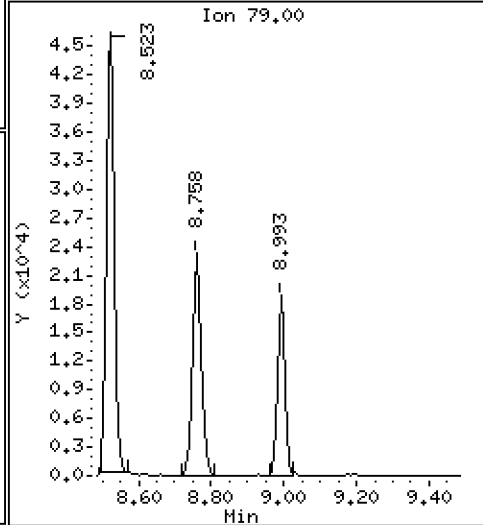
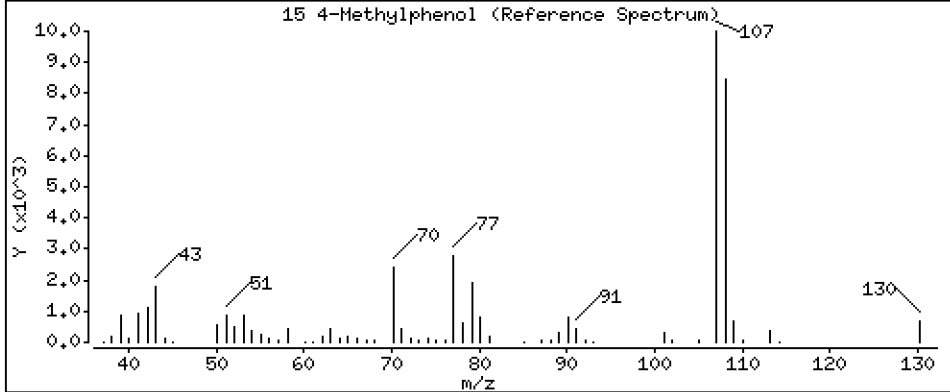
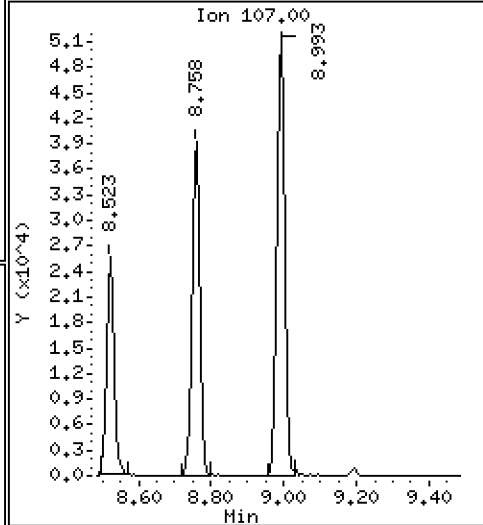
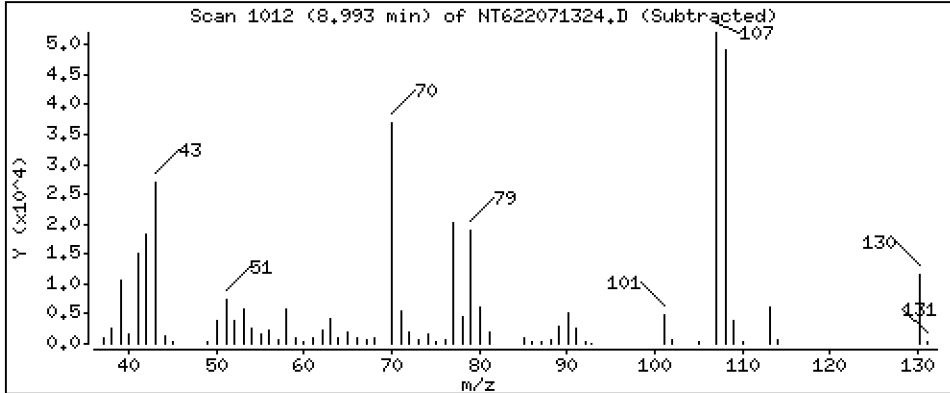
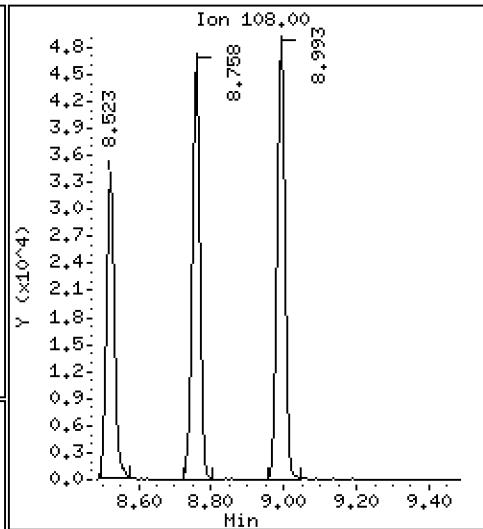
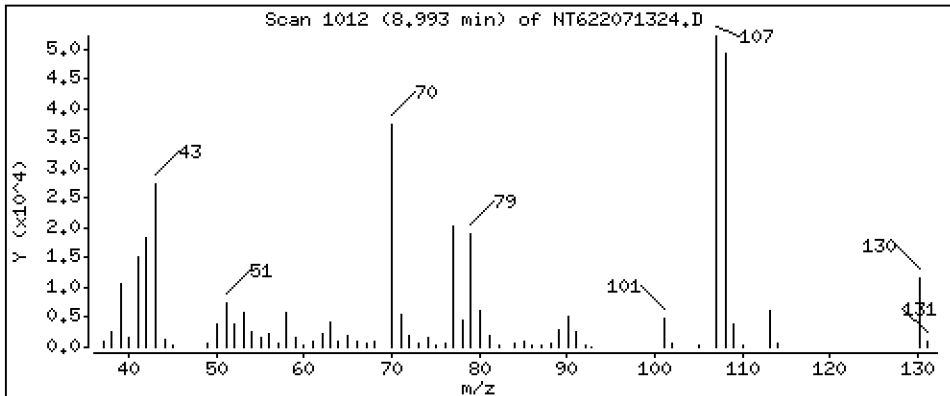
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

15 4-Methylphenol

Concentration: 21.86 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

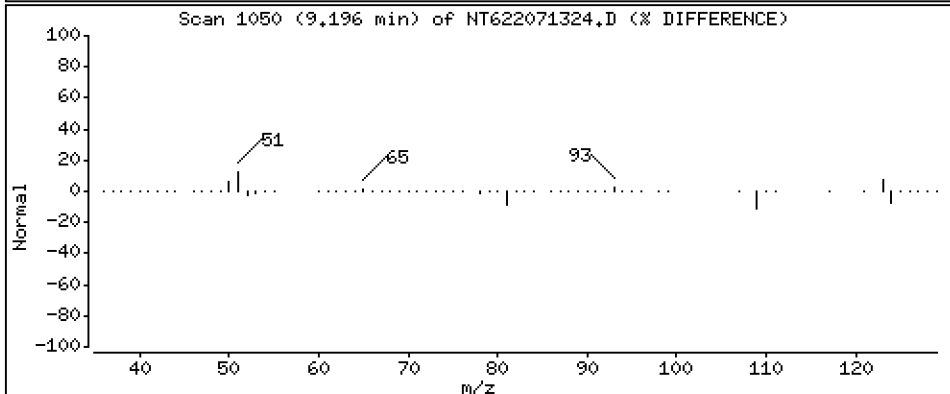
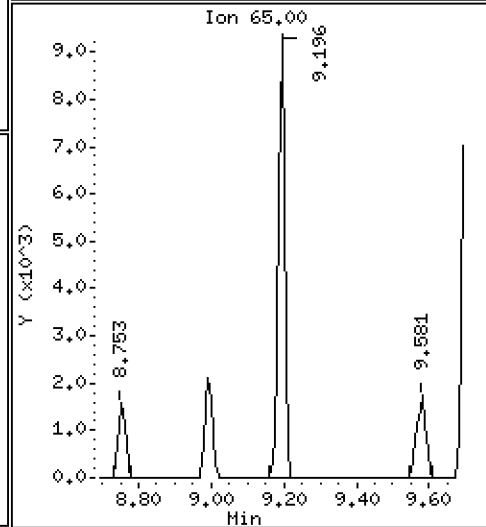
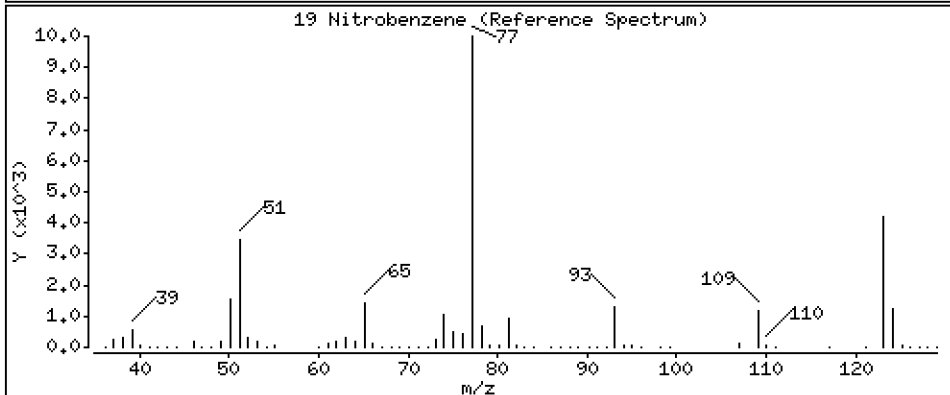
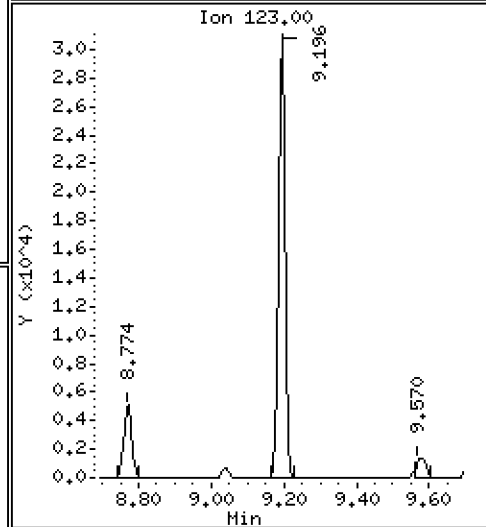
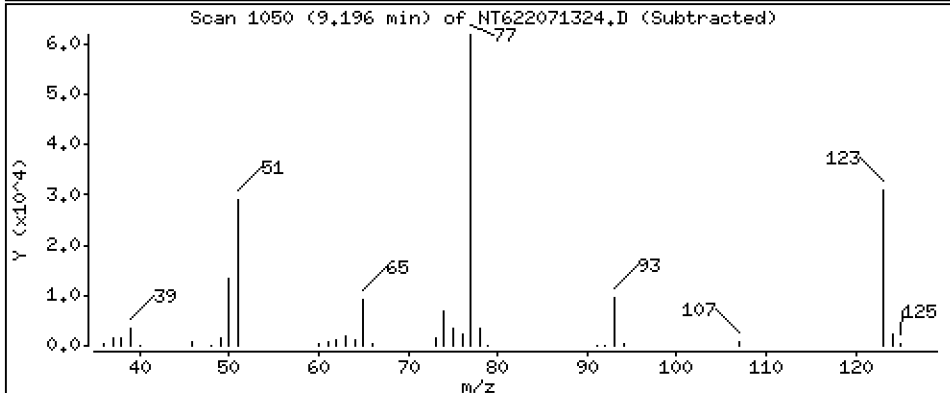
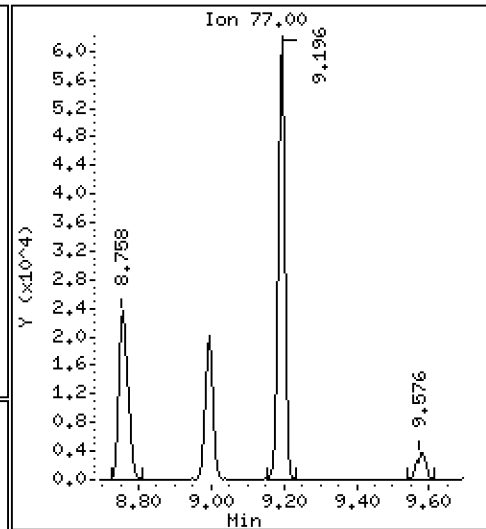
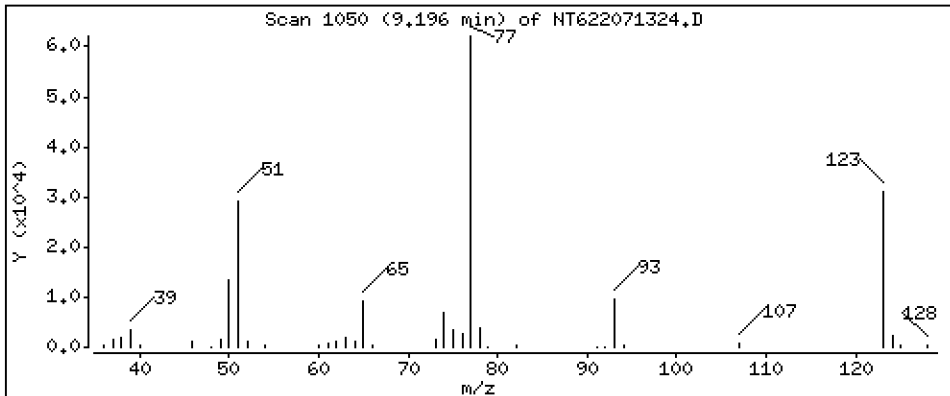
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

Concentration: 24.40 ug/mL

19 Nitrobenzene



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

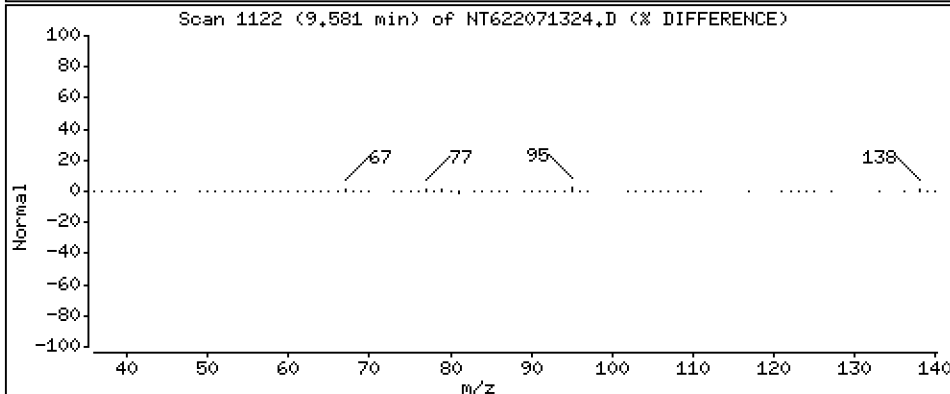
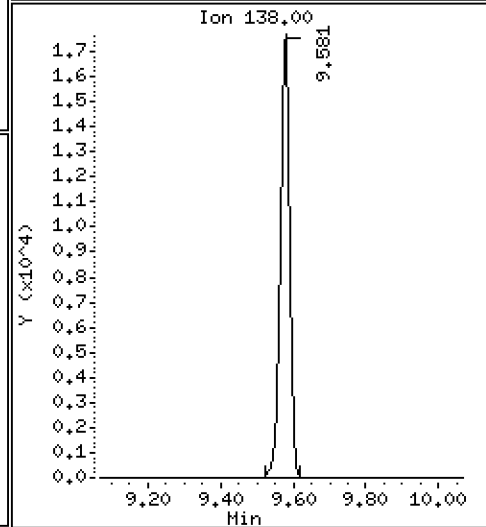
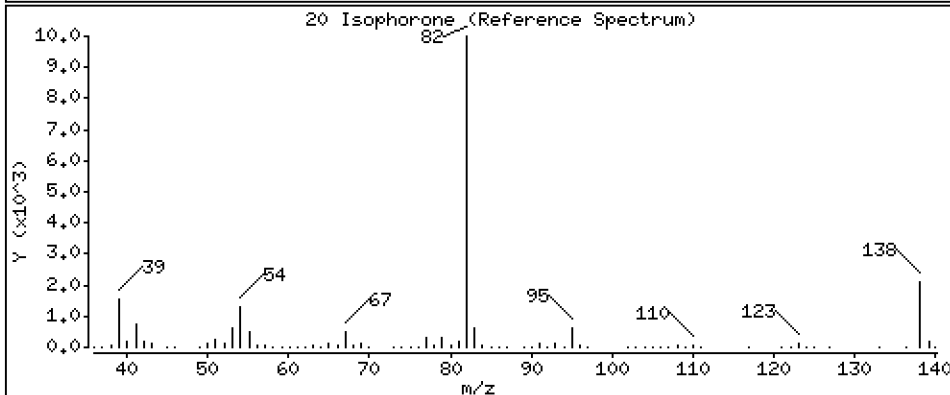
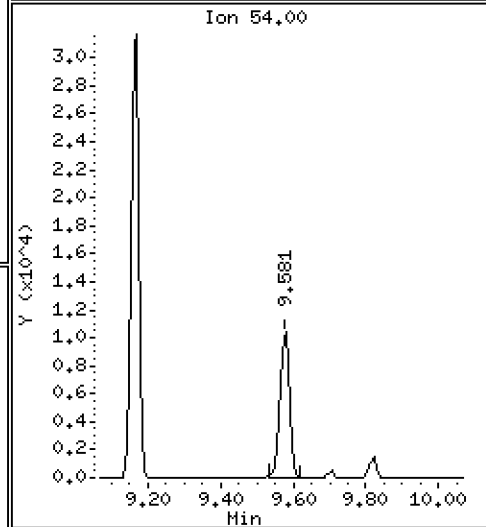
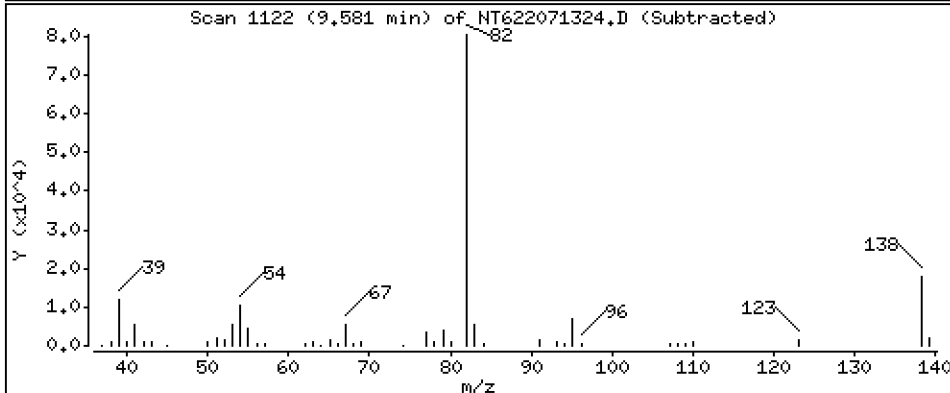
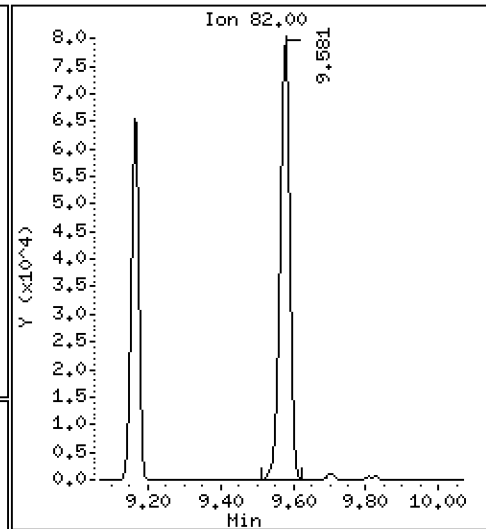
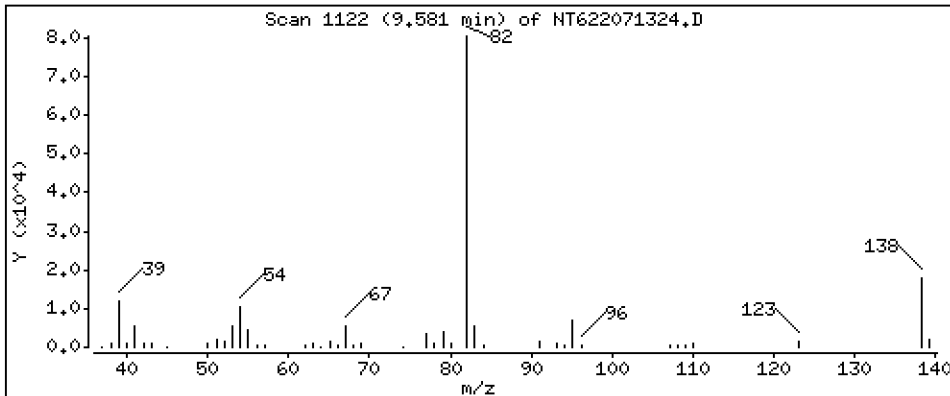
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

20 Isophorone

Concentration: 36.38 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

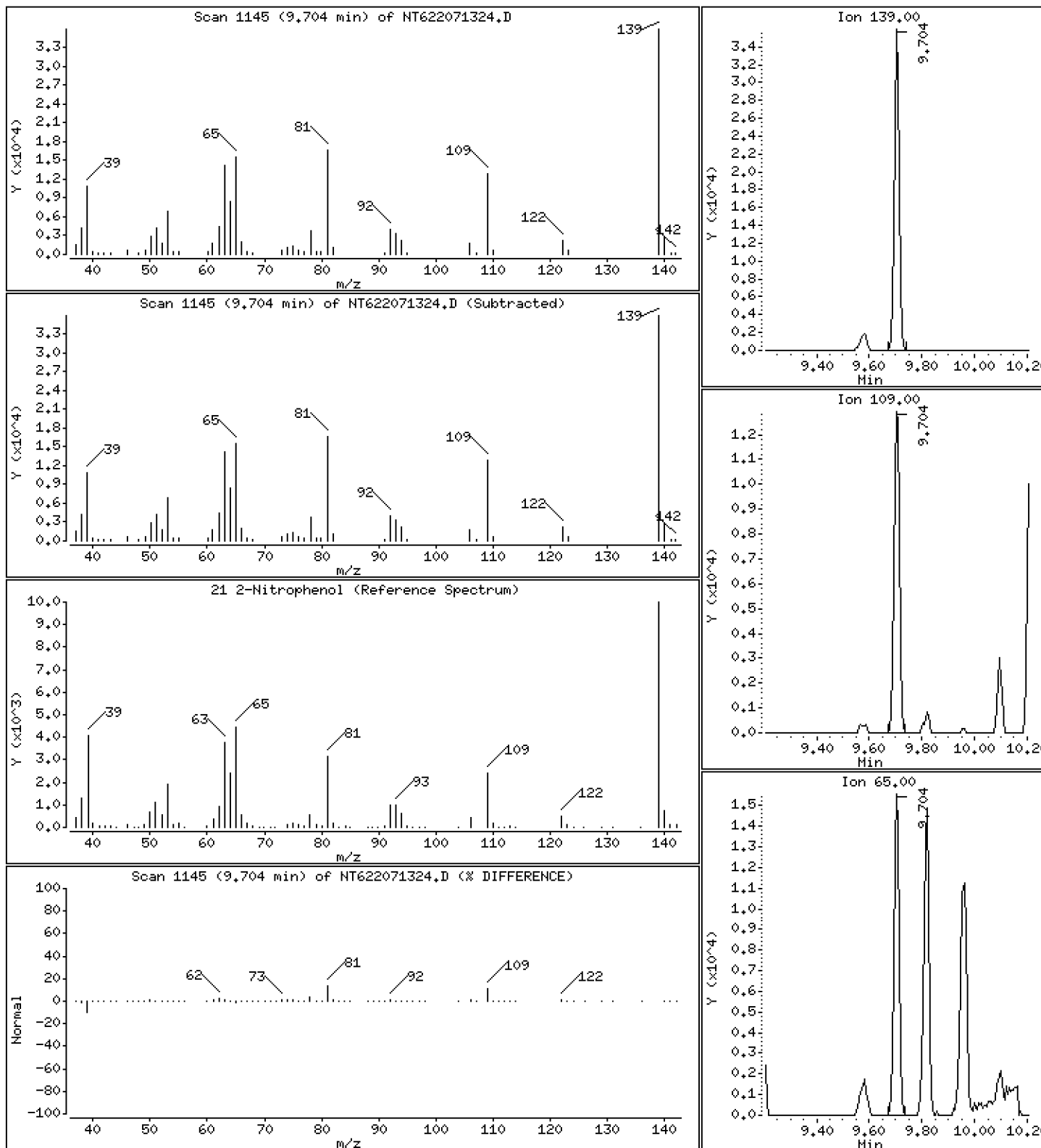
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

21 2-Nitrophenol

Concentration: 22.48 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

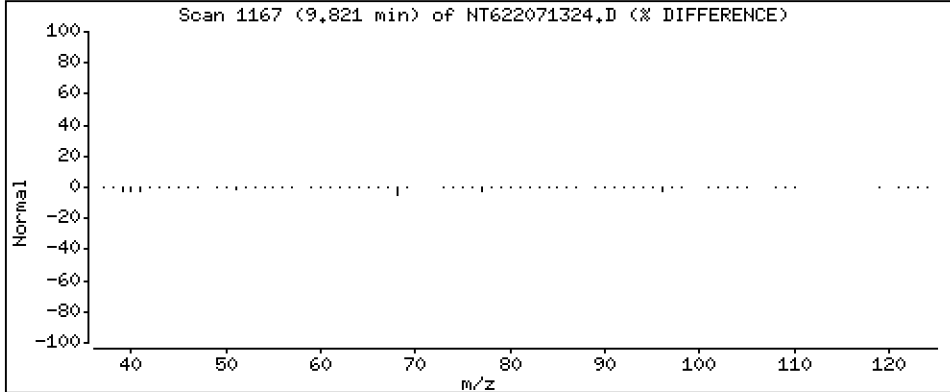
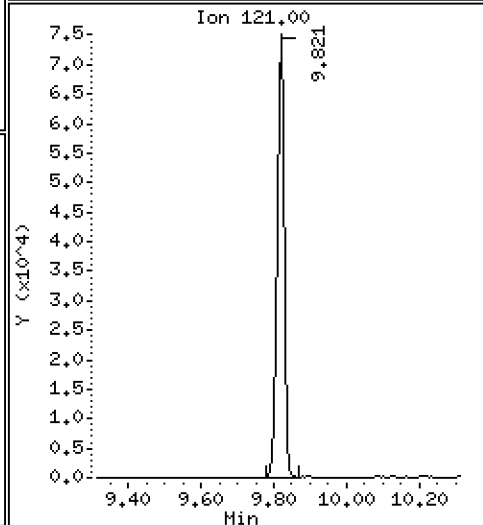
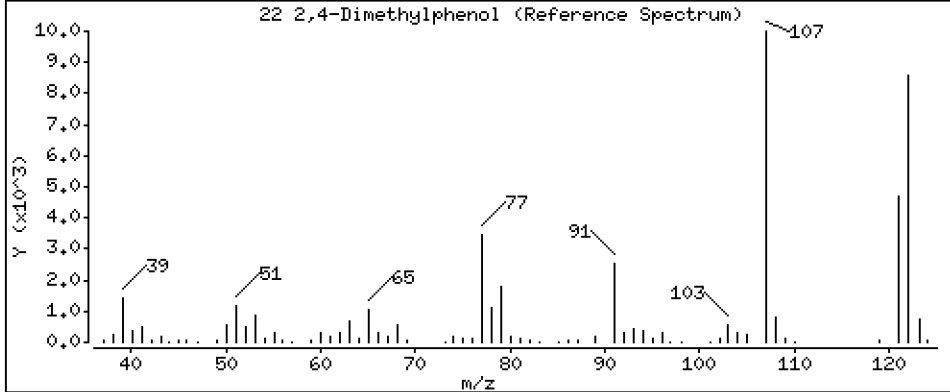
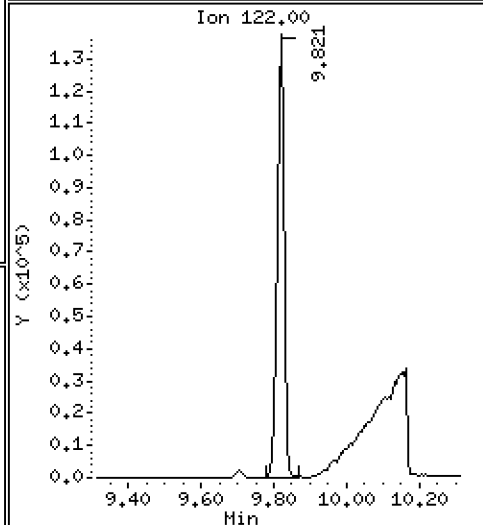
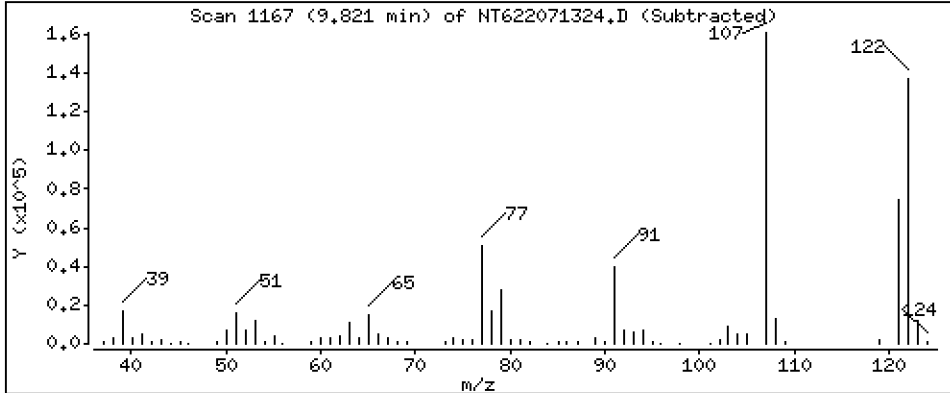
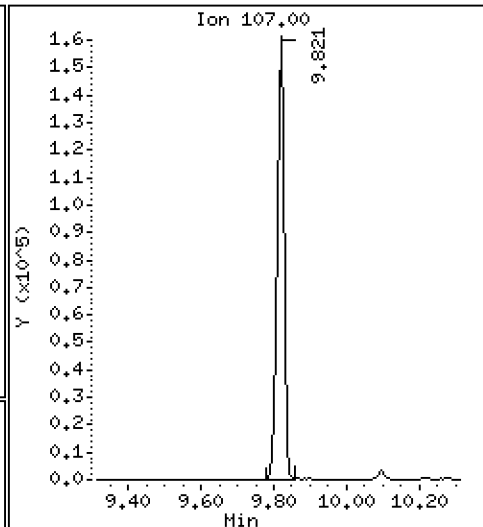
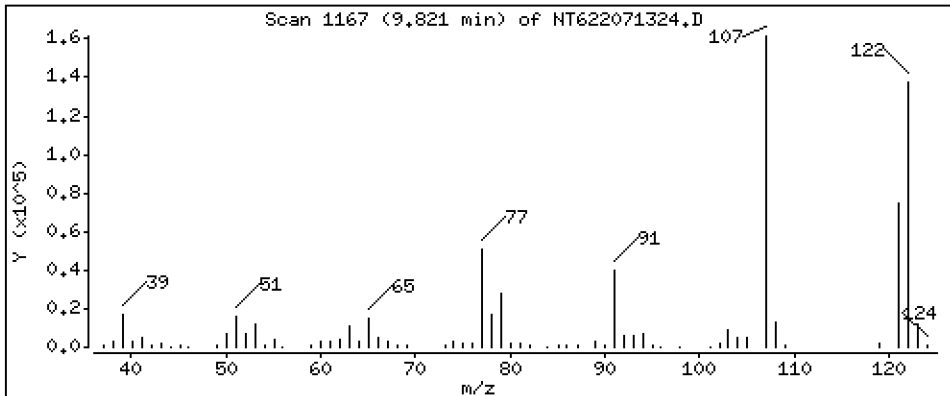
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

22 2,4-Dimethylphenol

Concentration: 57.52 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

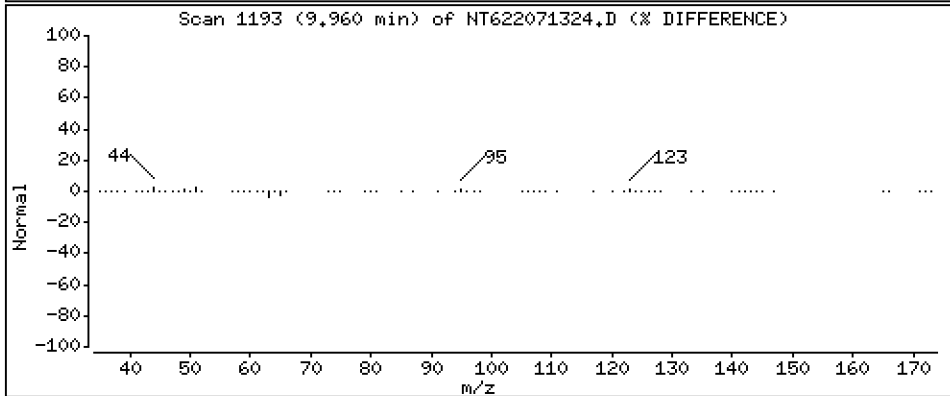
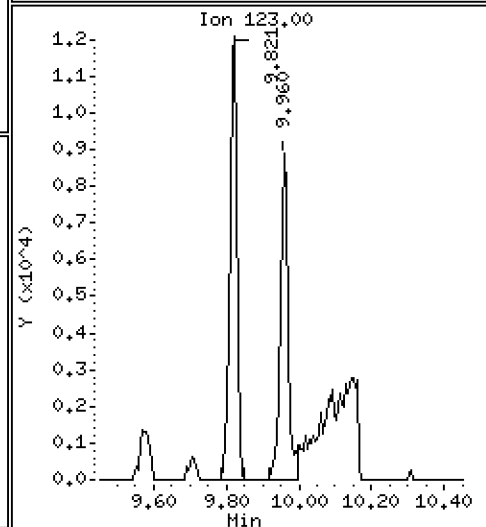
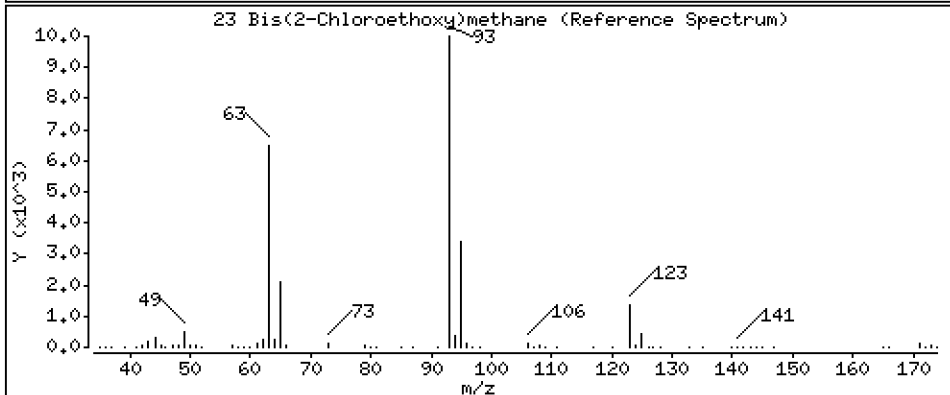
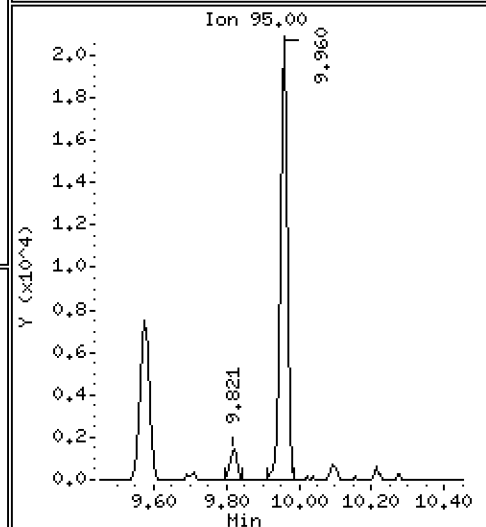
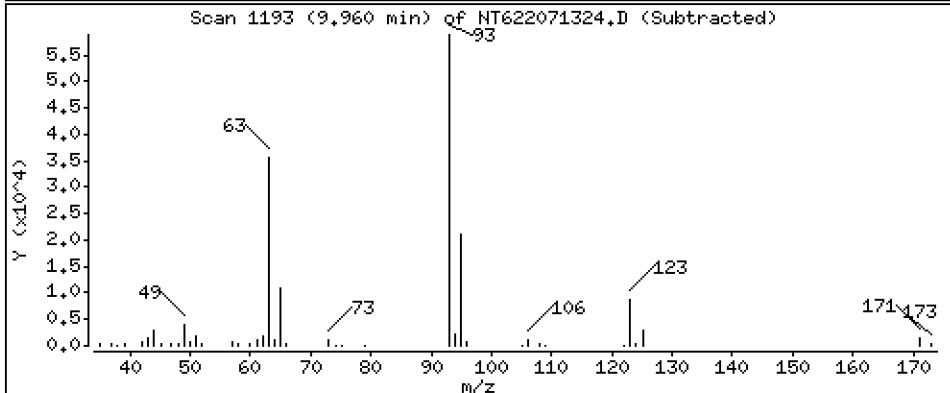
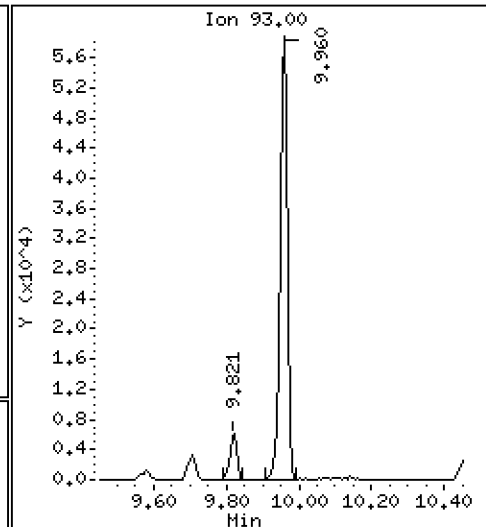
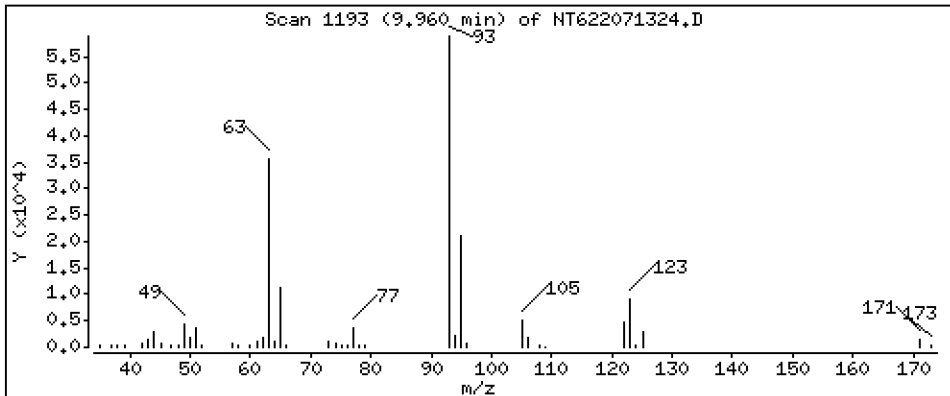
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

23 Bis(2-Chloroethoxy)methane

Concentration: 28.02 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

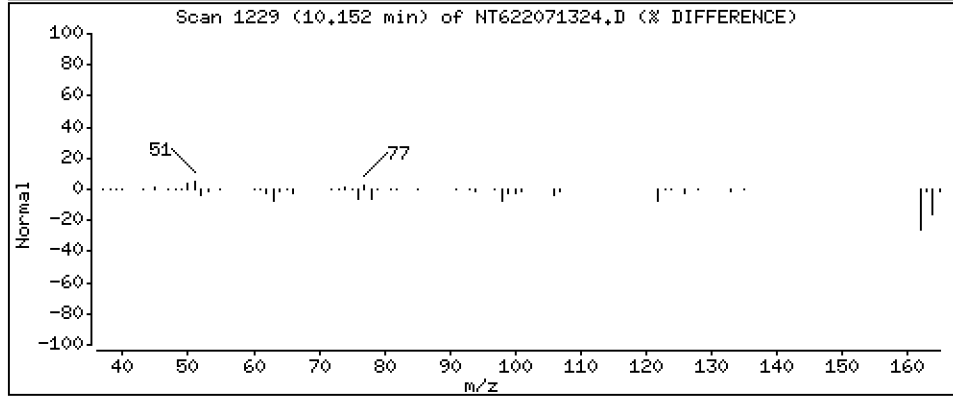
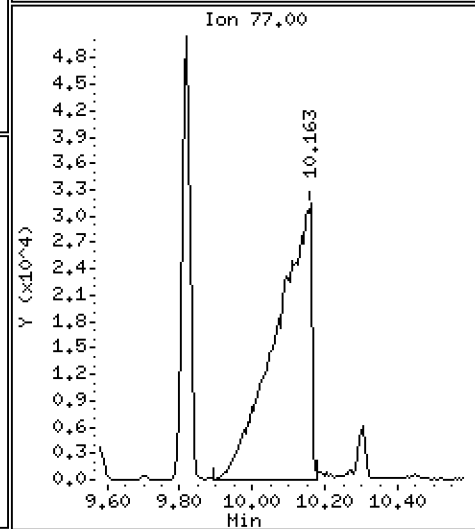
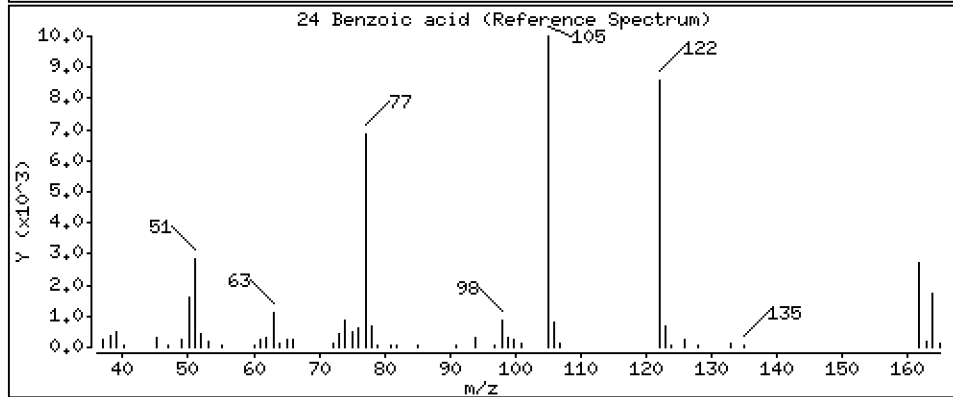
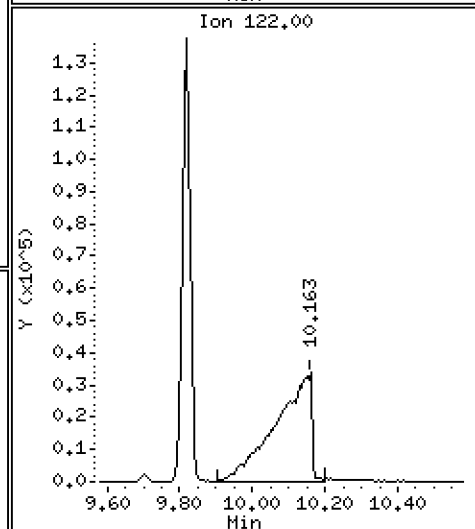
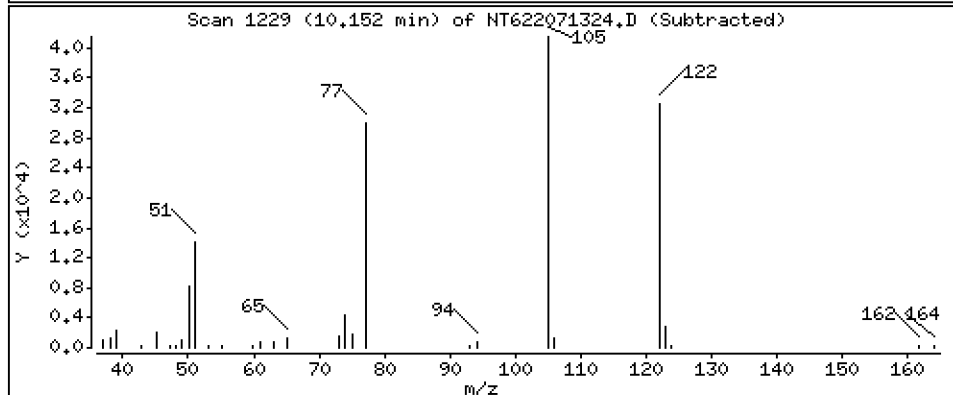
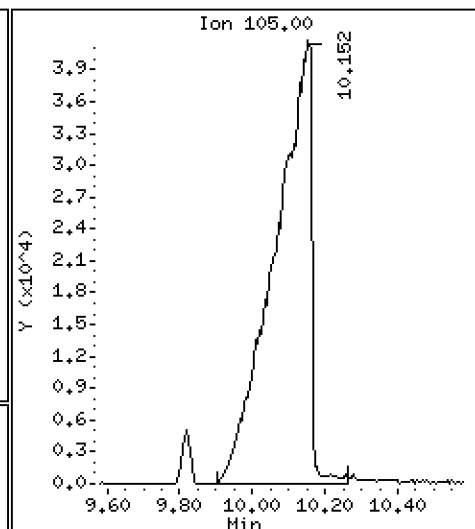
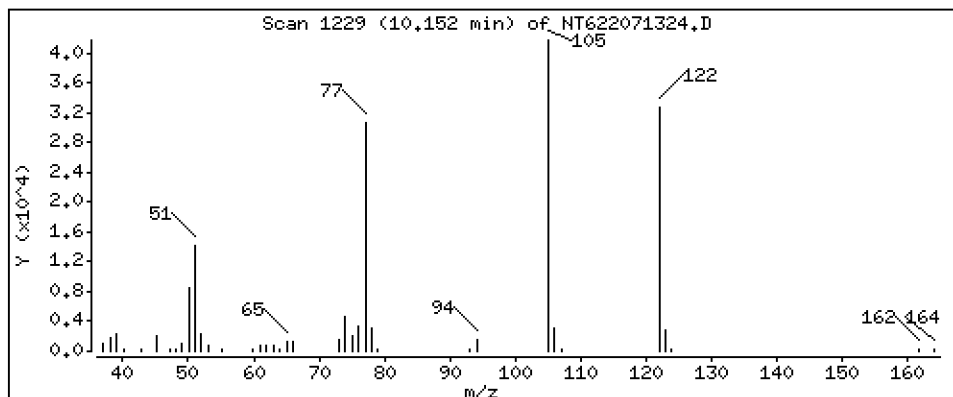
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

24 Benzoic acid

Concentration: 122.9 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

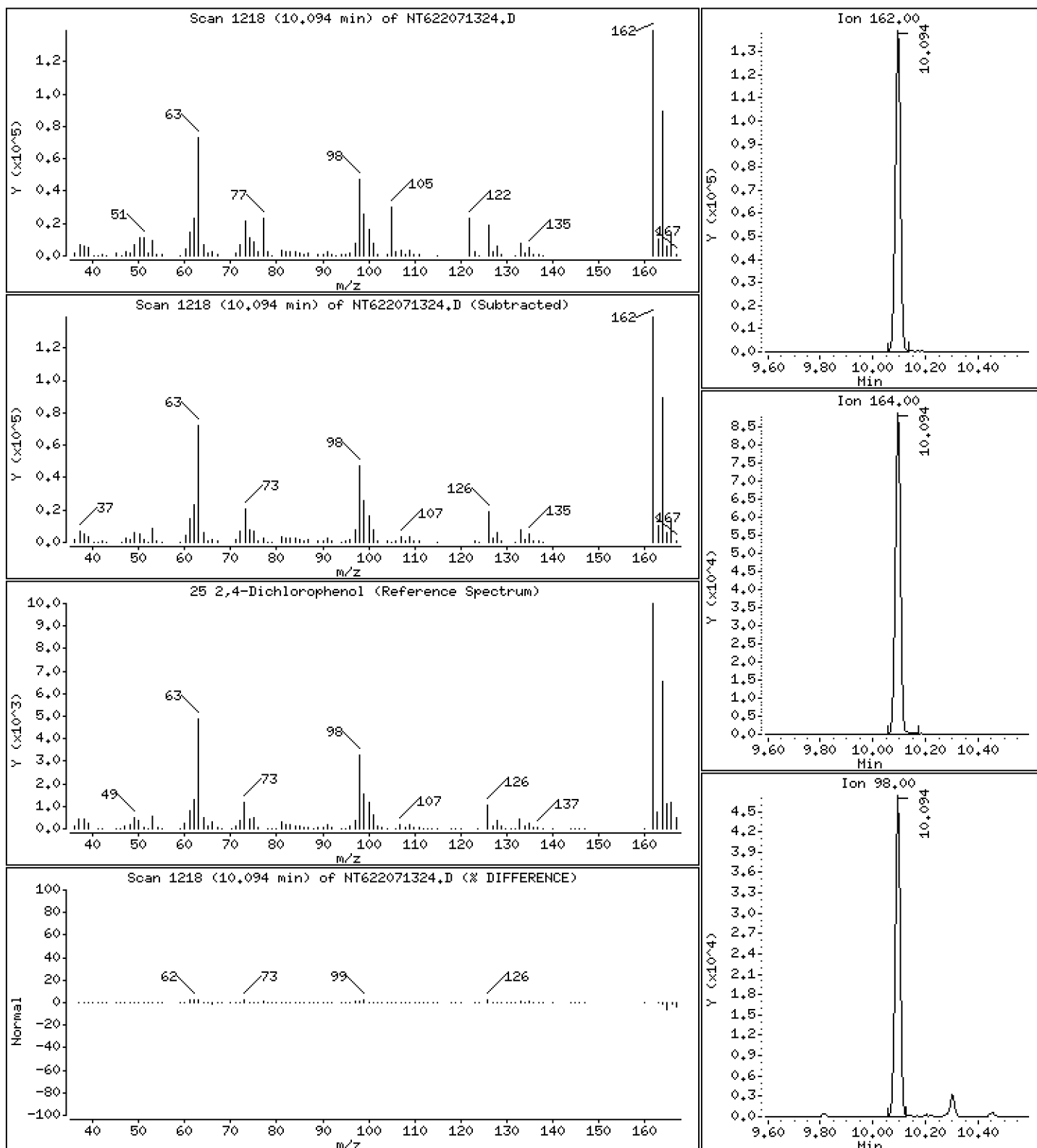
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

25 2,4-Dichlorophenol

Concentration: 62,25 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

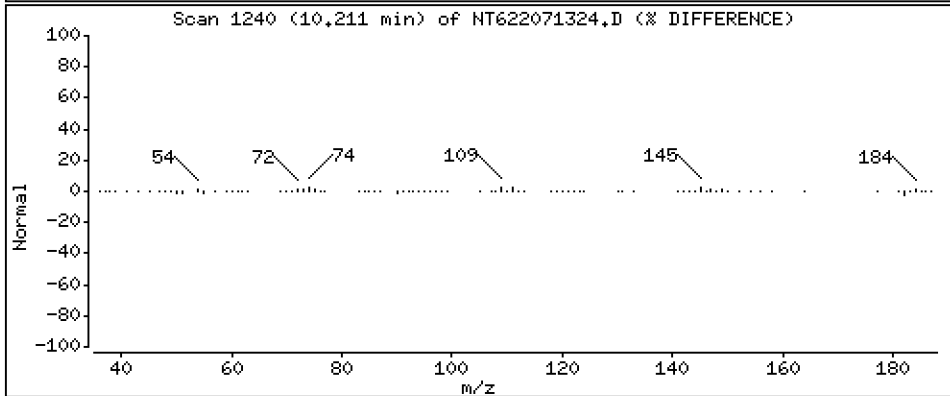
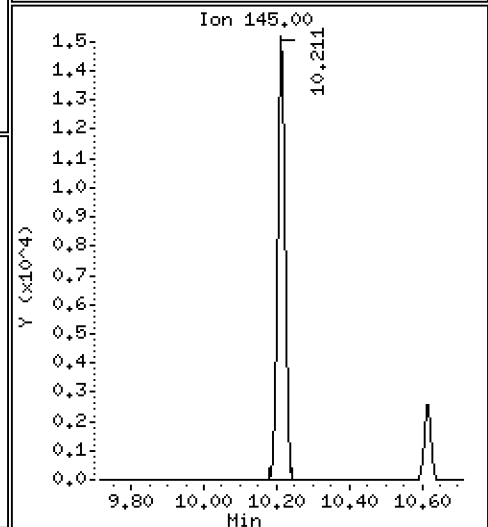
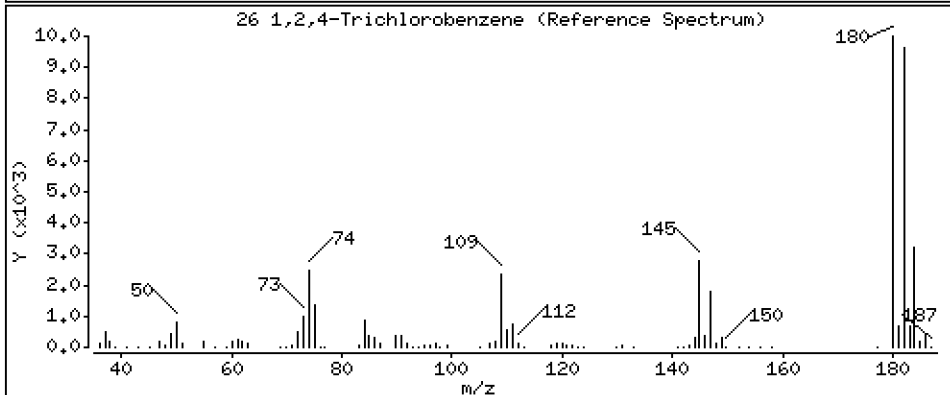
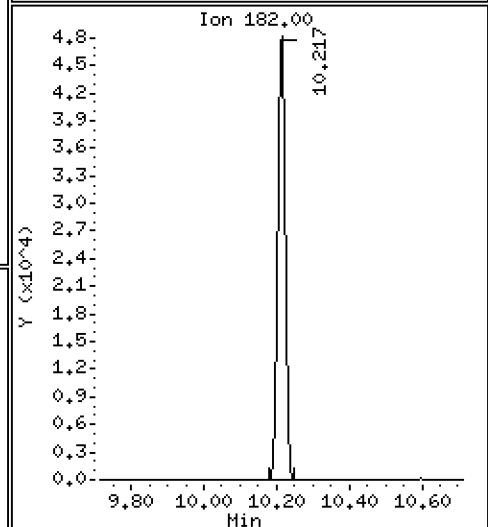
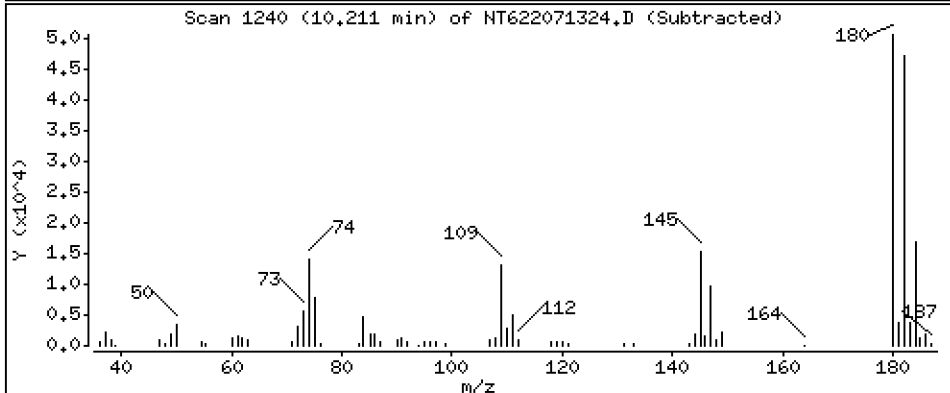
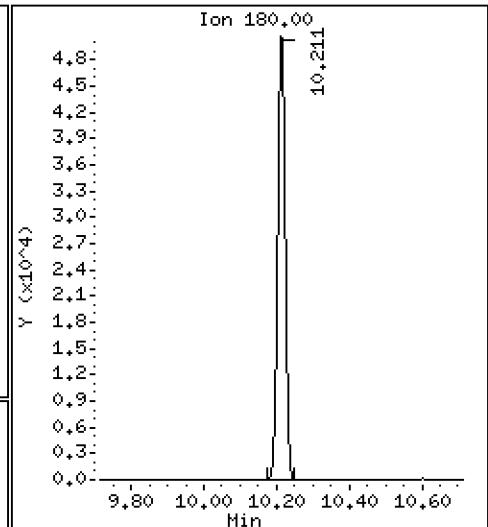
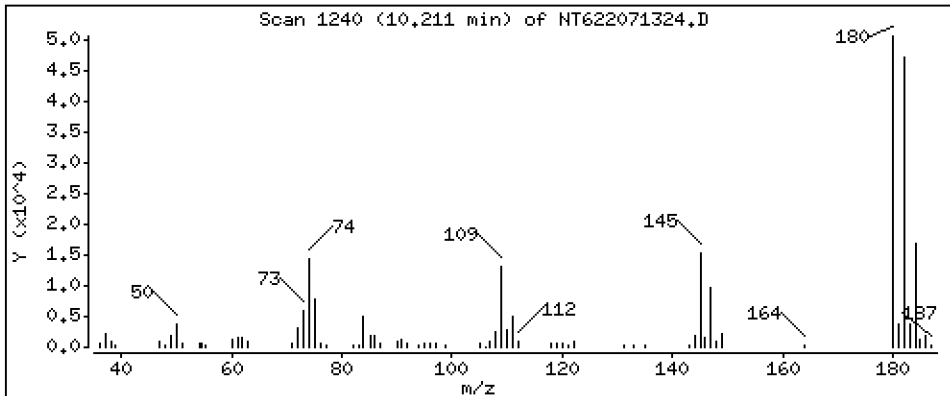
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

26 1,2,4-Trichlorobenzene

Concentration: 21.14 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

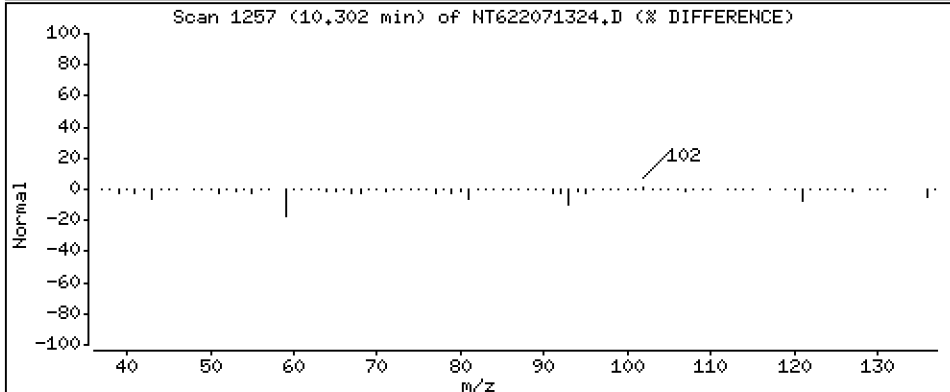
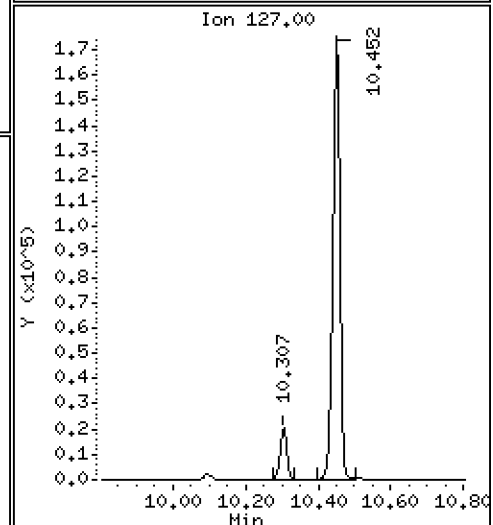
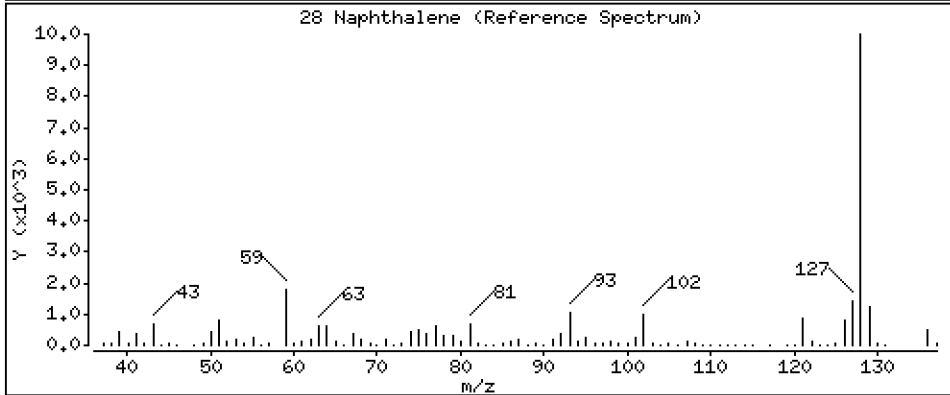
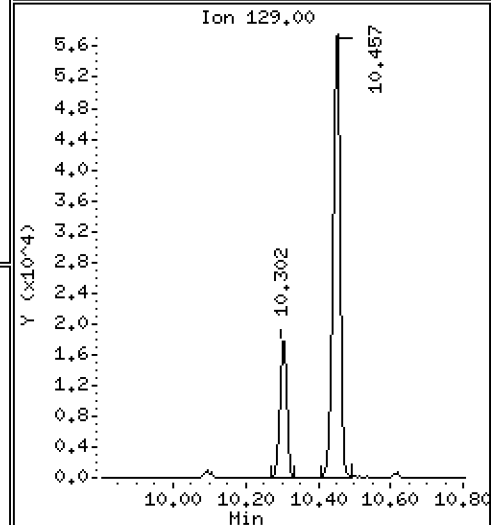
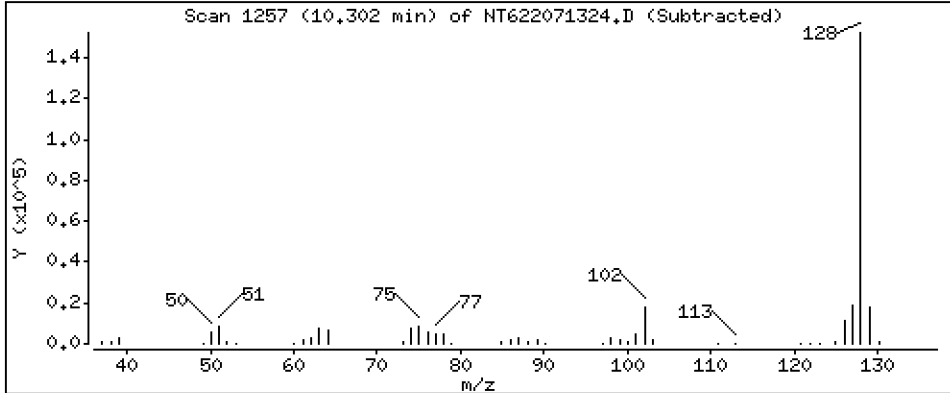
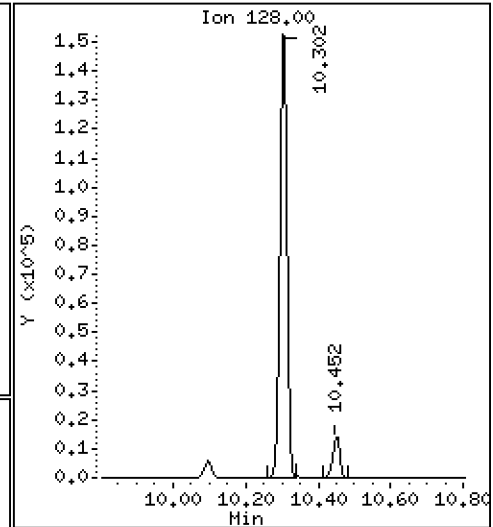
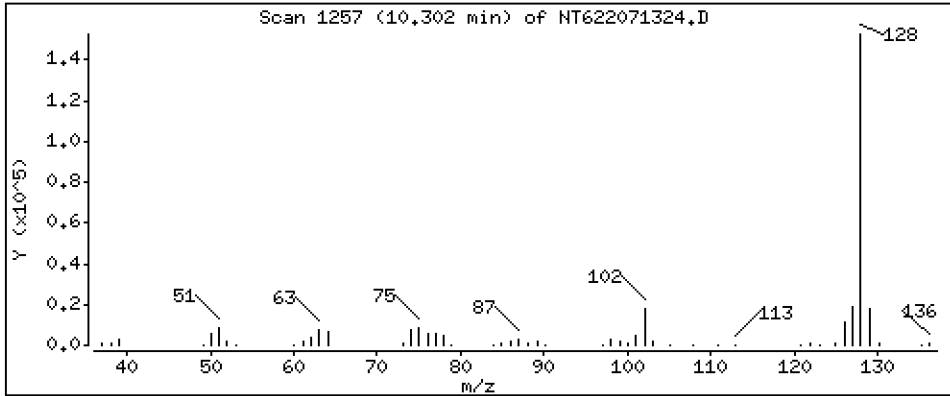
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

28 Naphthalene

Concentration: 22.40 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

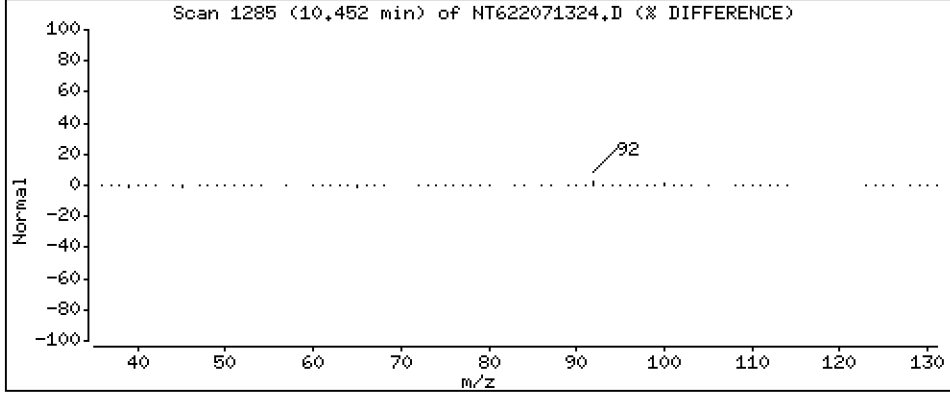
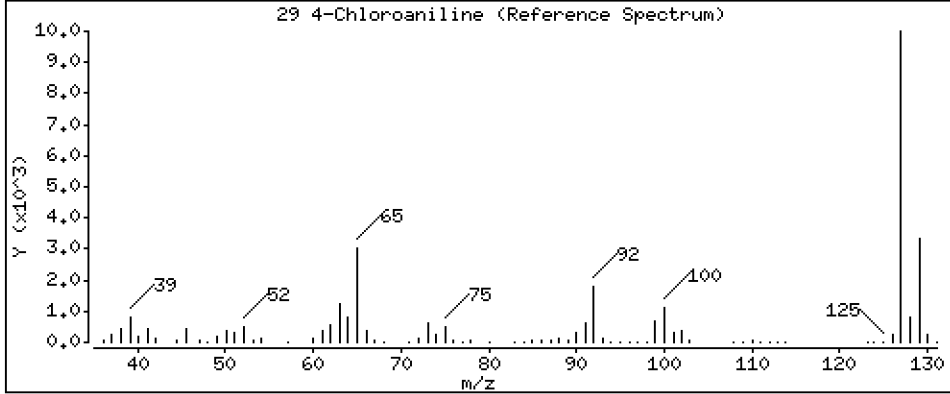
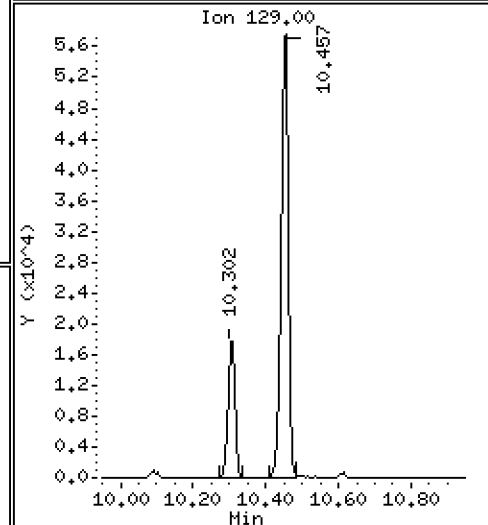
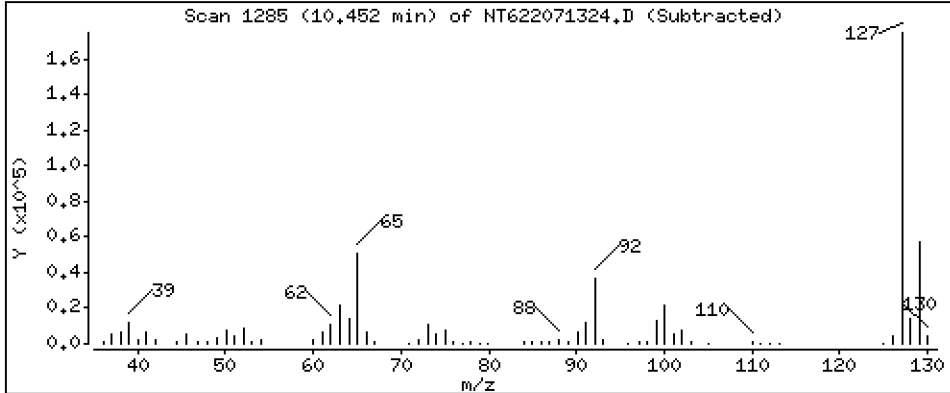
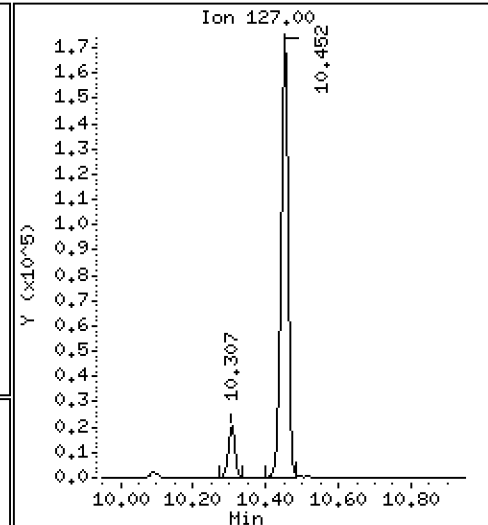
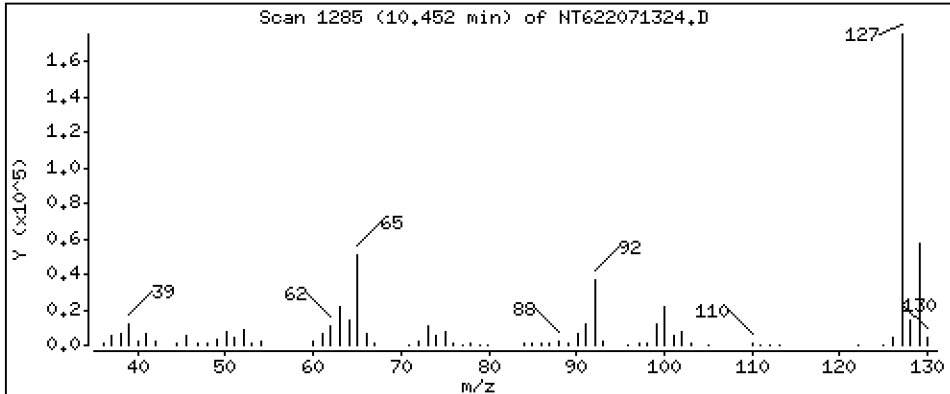
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

29 4-Chloroaniline

Concentration: 61,96 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

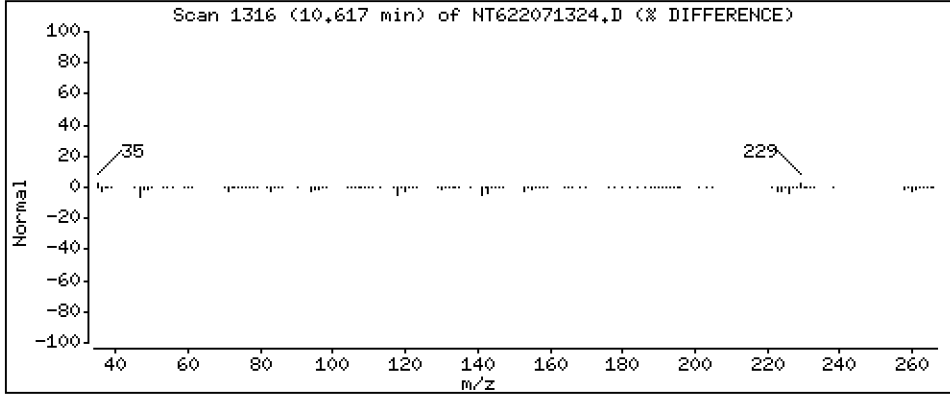
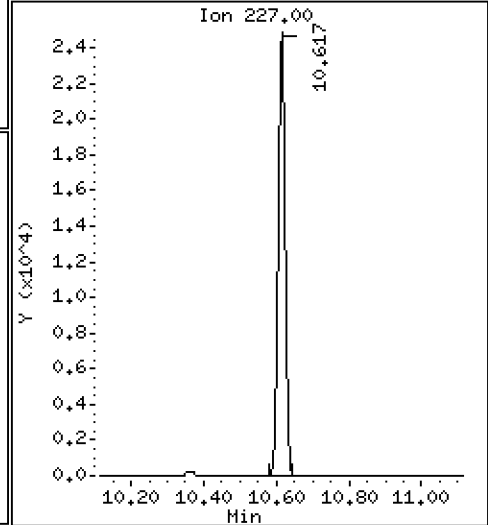
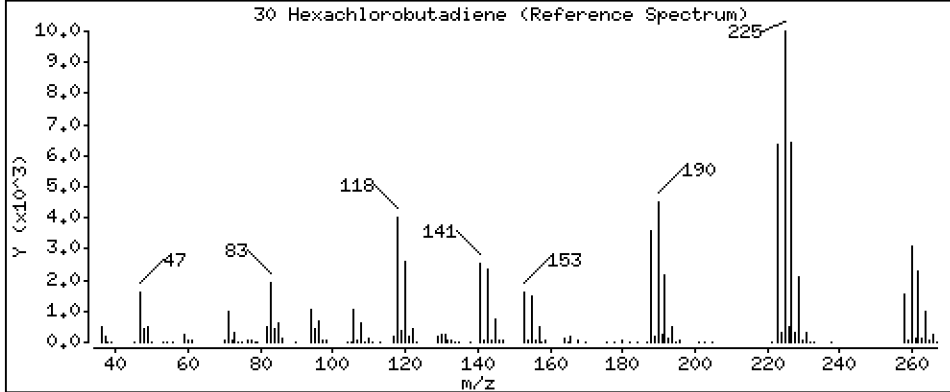
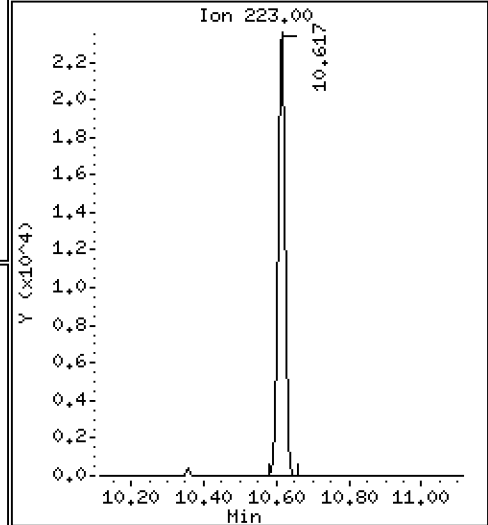
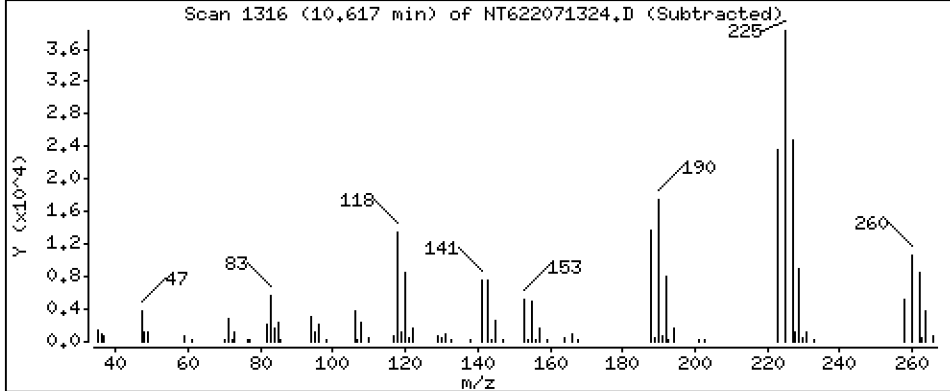
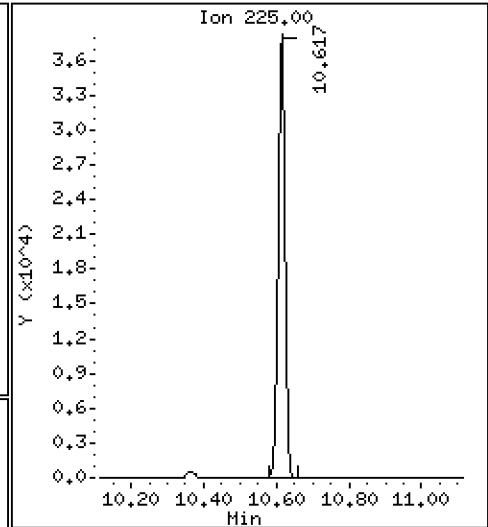
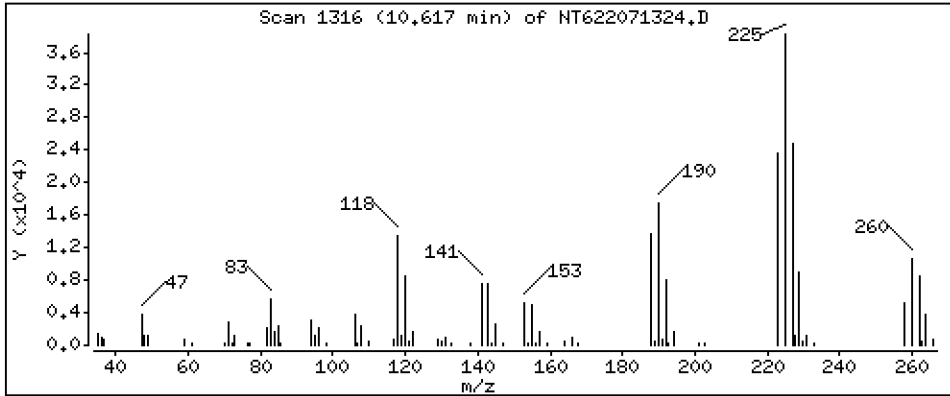
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

30 Hexachlorobutadiene

Concentration: 22,22 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

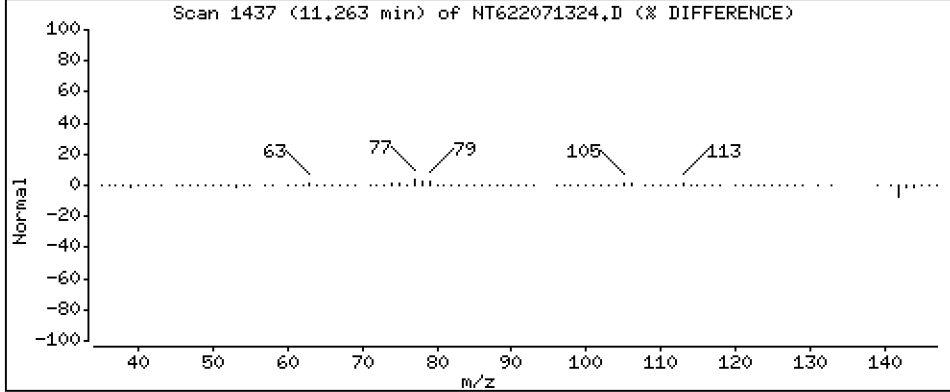
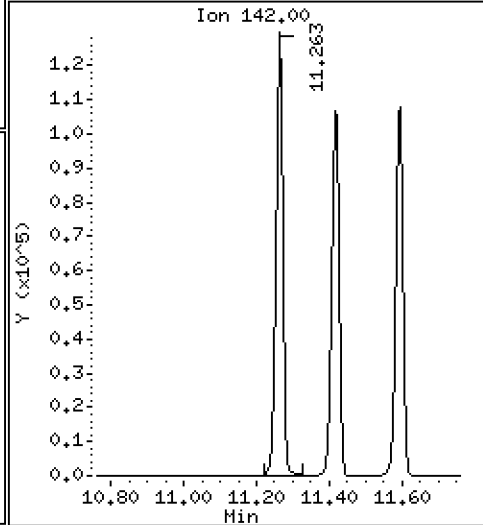
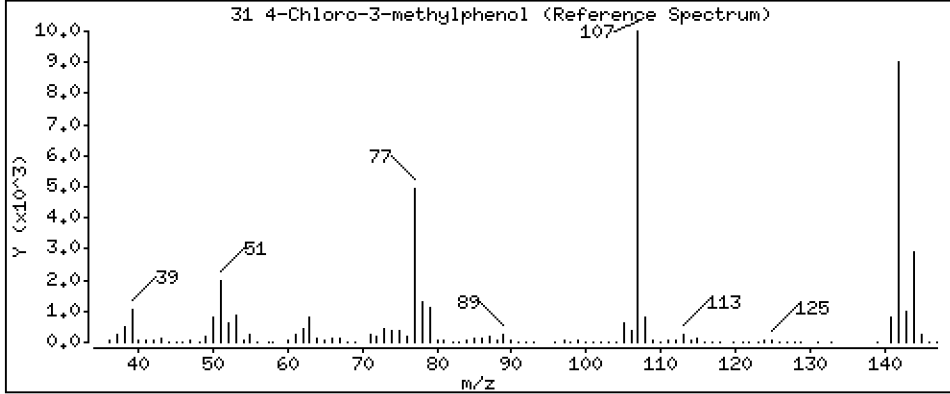
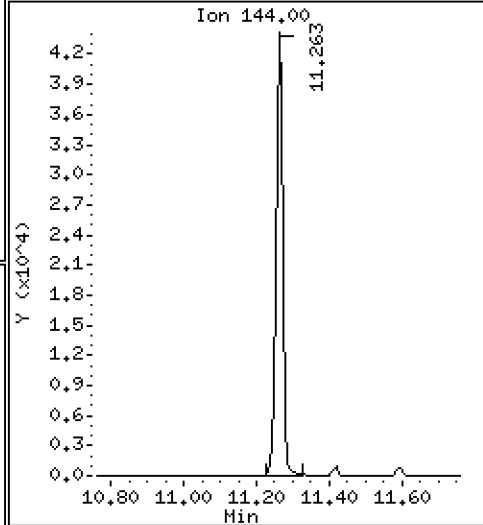
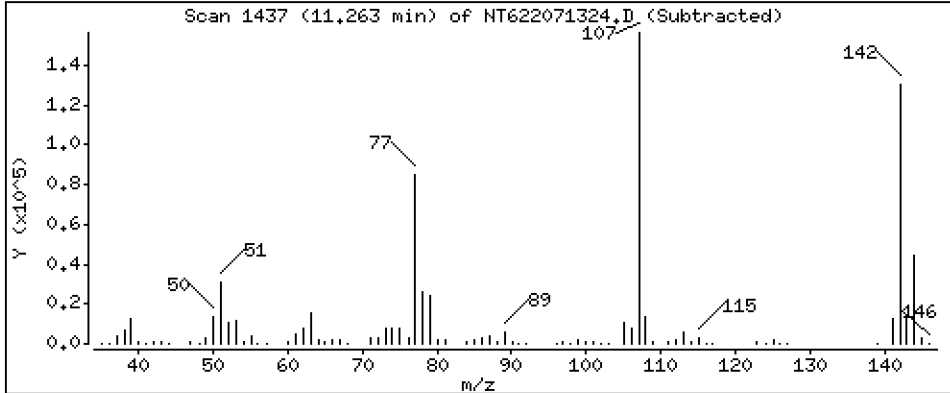
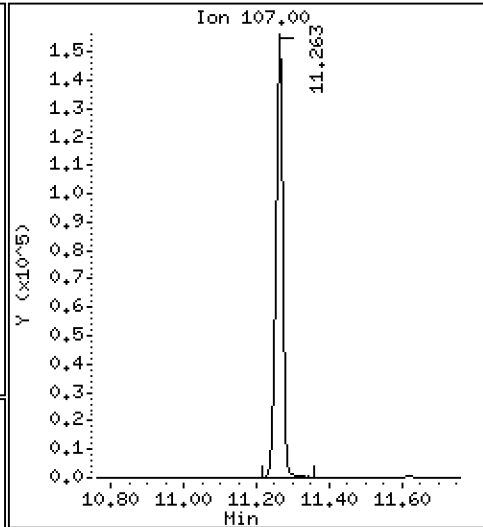
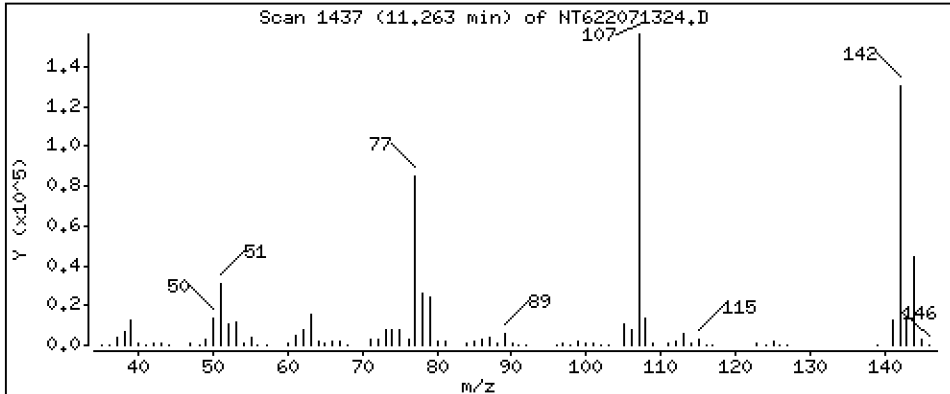
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

31 4-Chloro-3-methylphenol

Concentration: 67.46 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

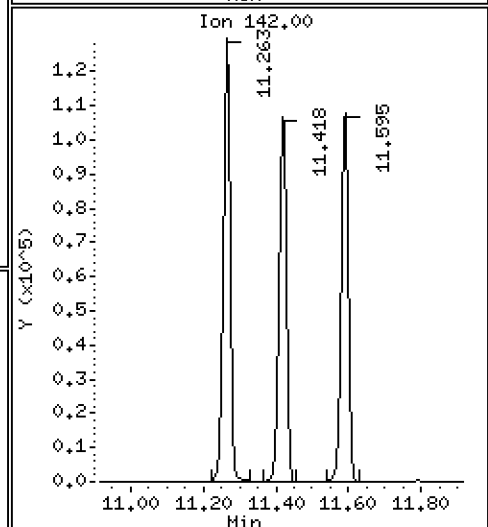
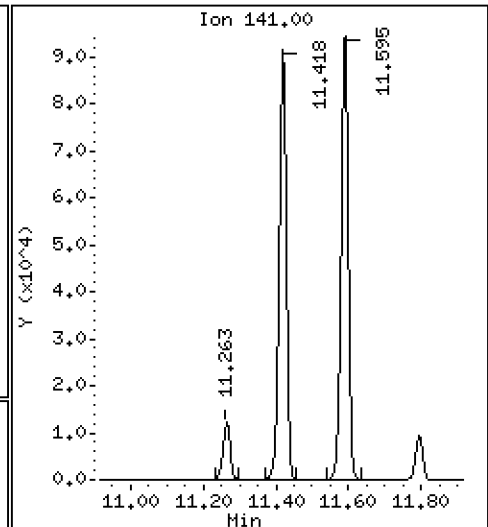
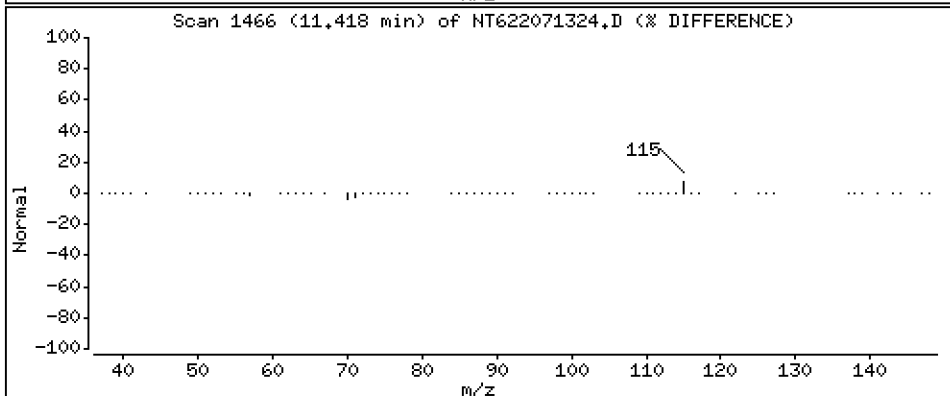
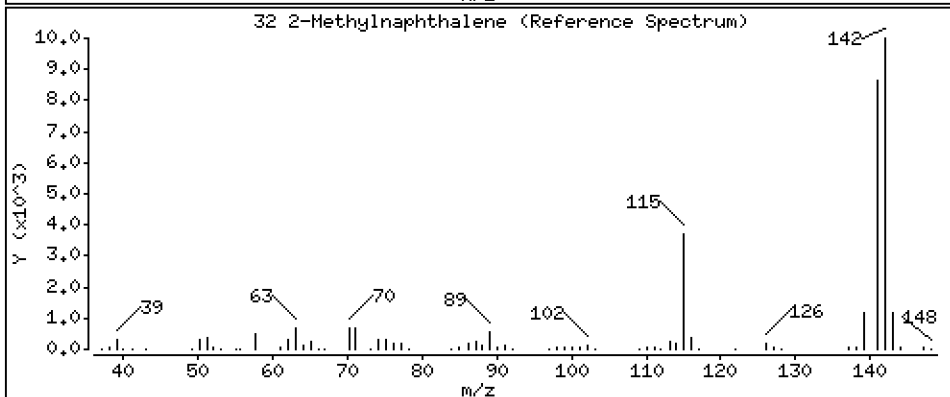
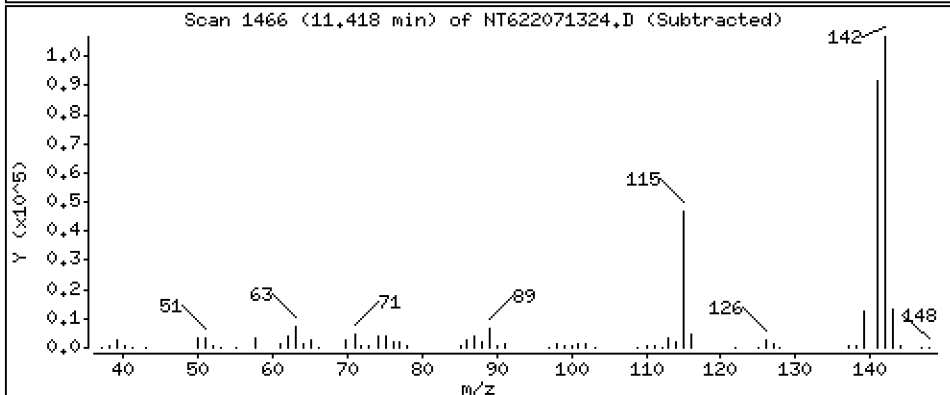
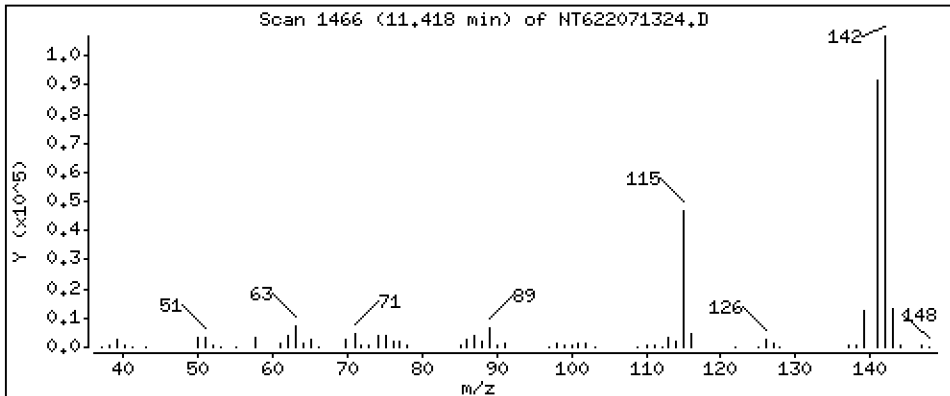
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

32 2-Methylnaphthalene

Concentration: 23.53 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

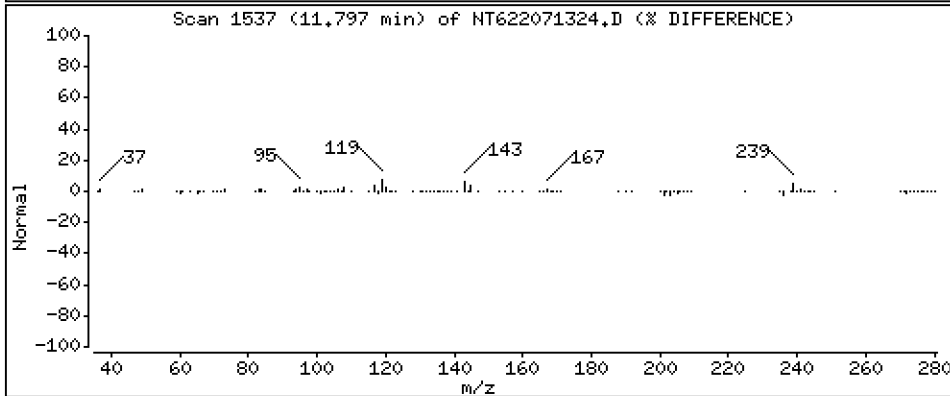
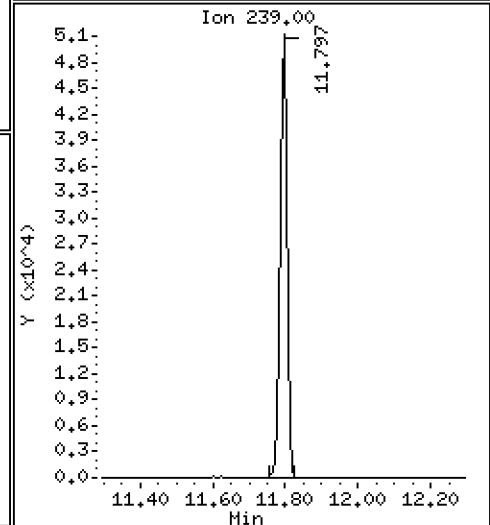
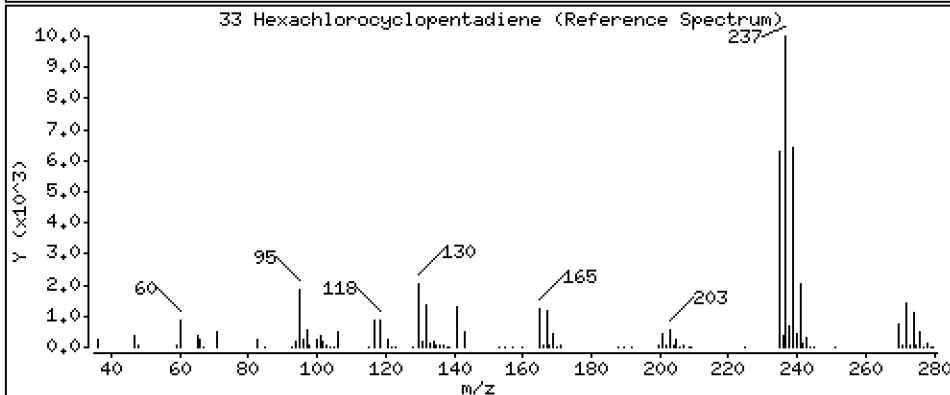
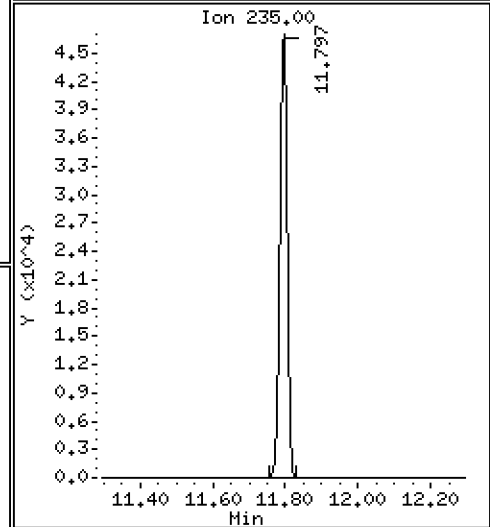
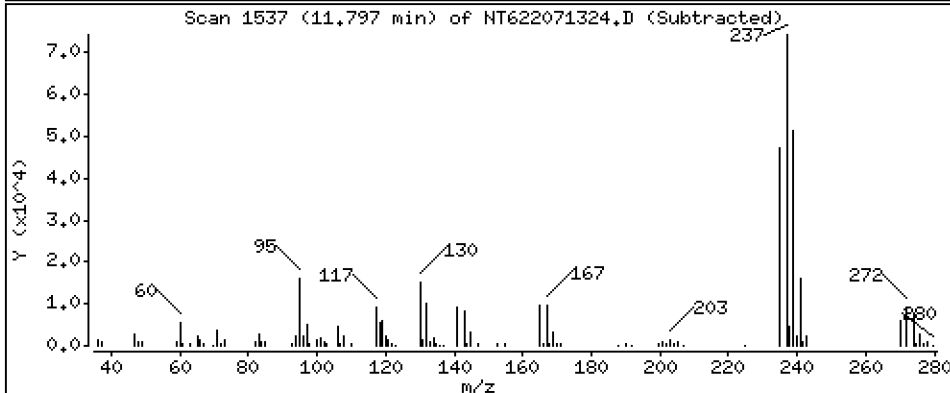
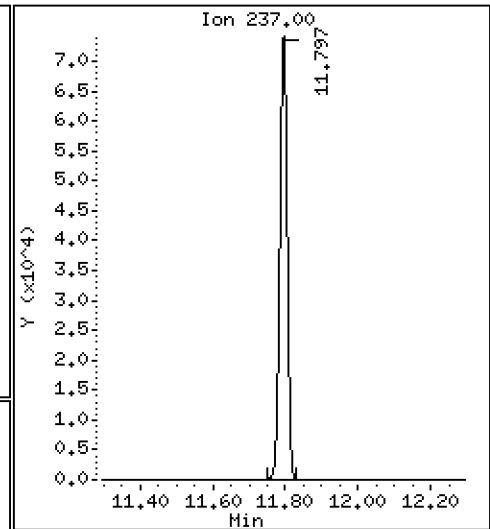
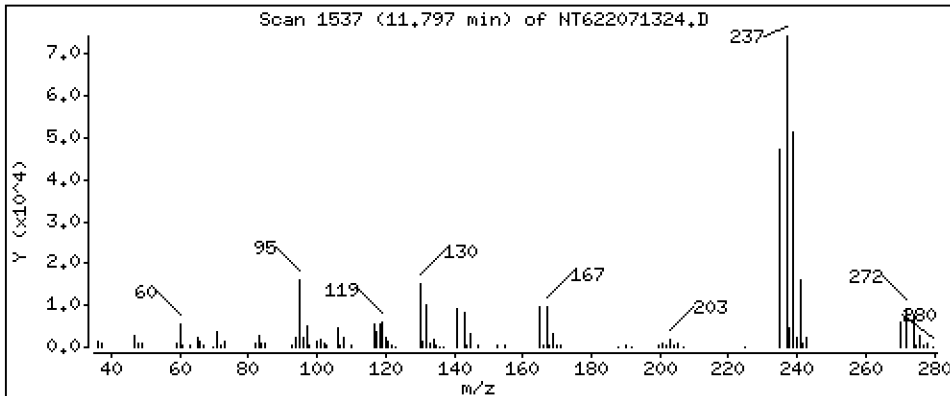
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

33 Hexachlorocyclopentadiene

Concentration: 40,11 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

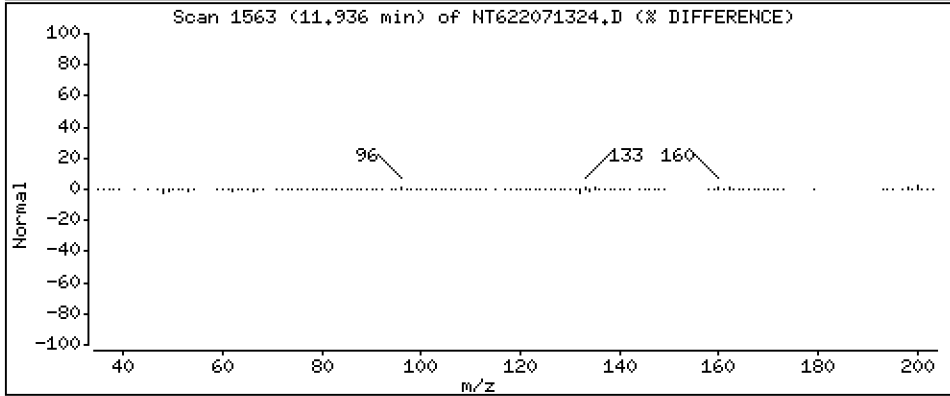
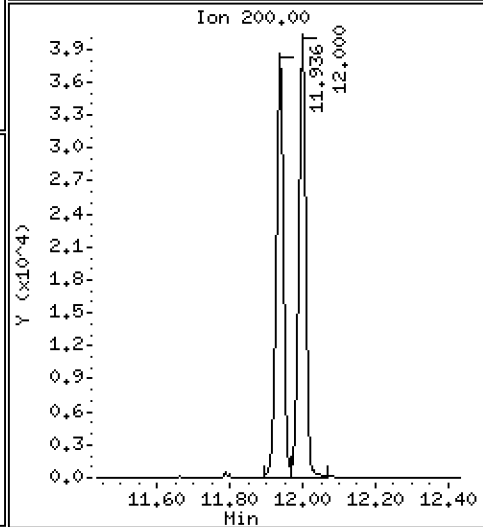
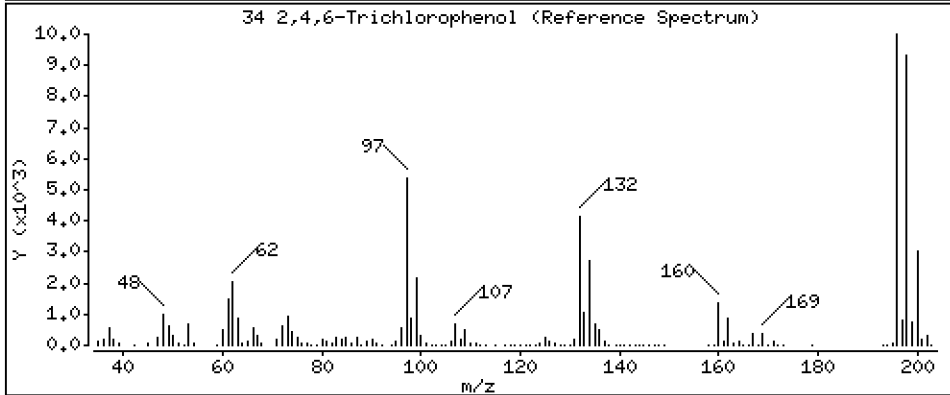
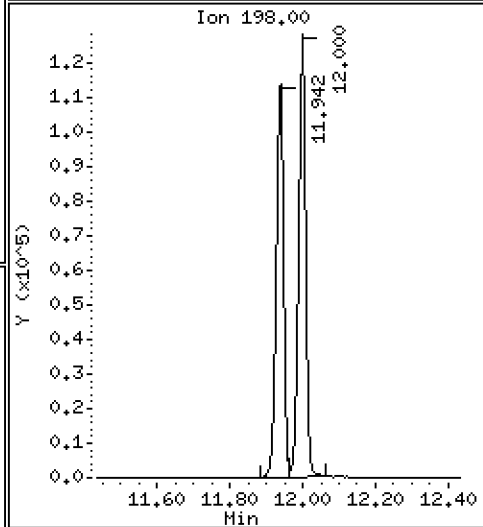
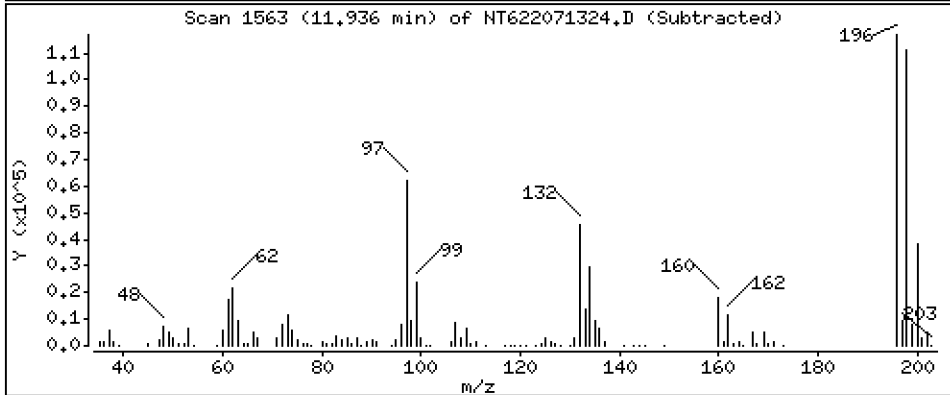
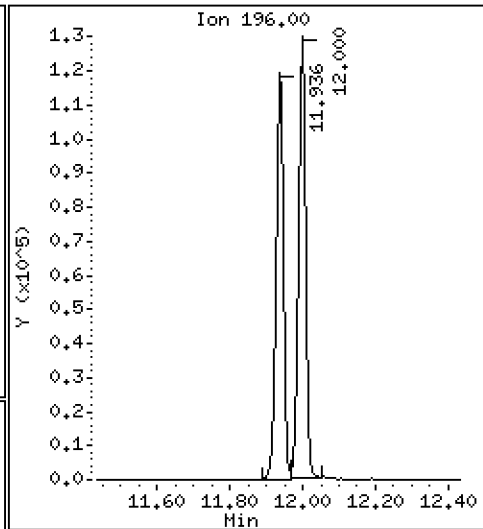
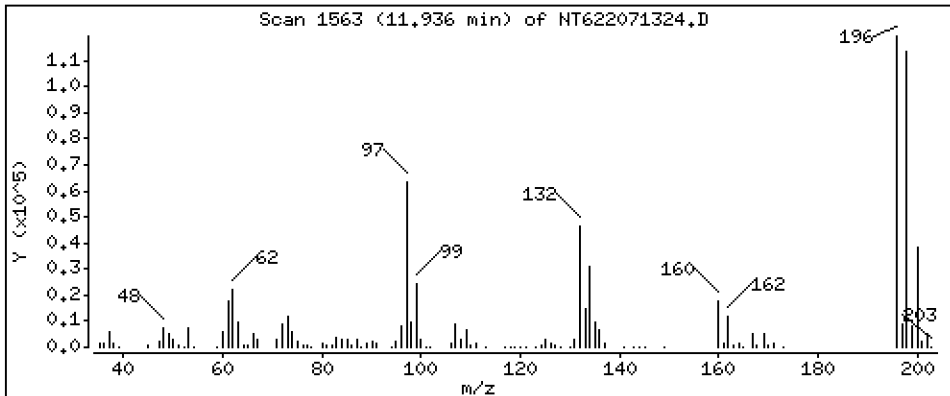
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

34 2,4,6-Trichlorophenol

Concentration: 62.04 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

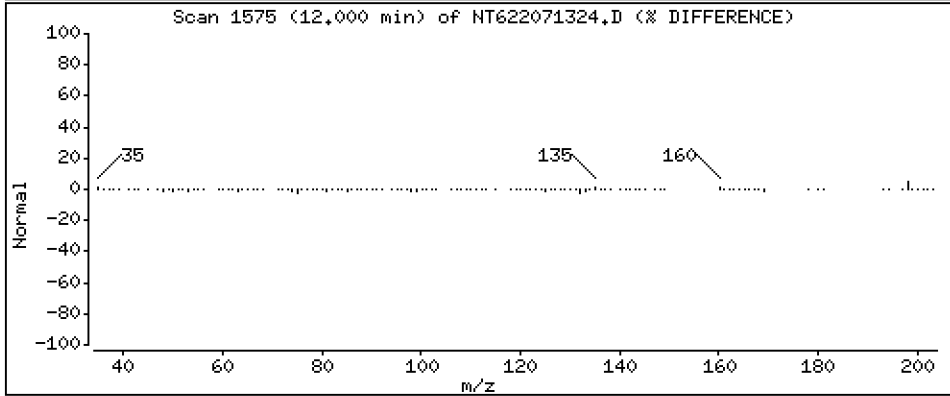
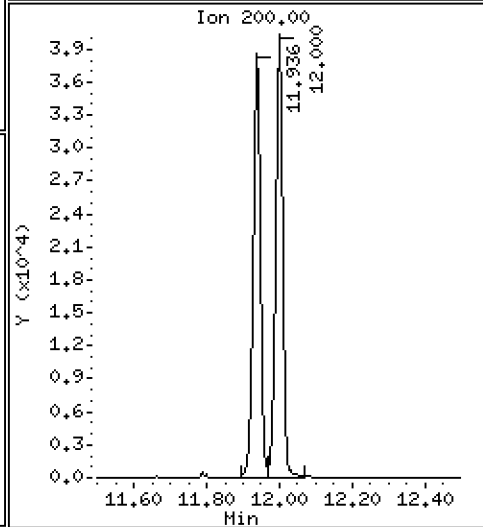
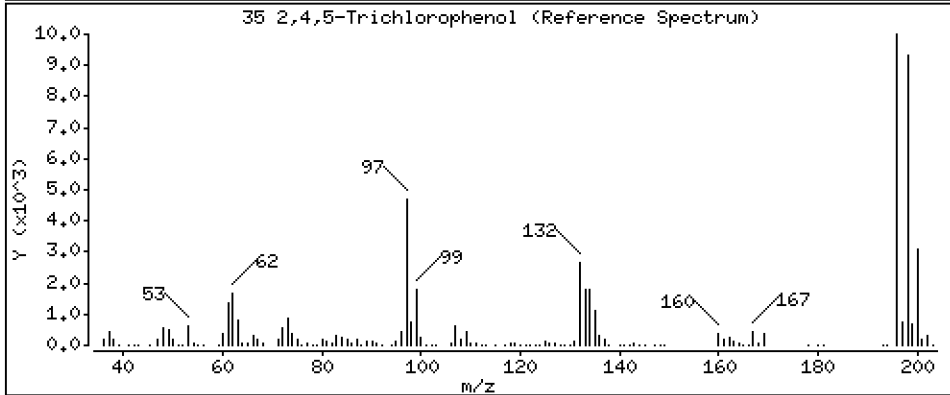
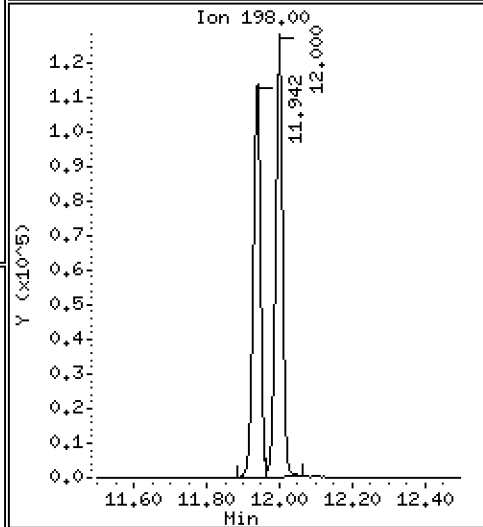
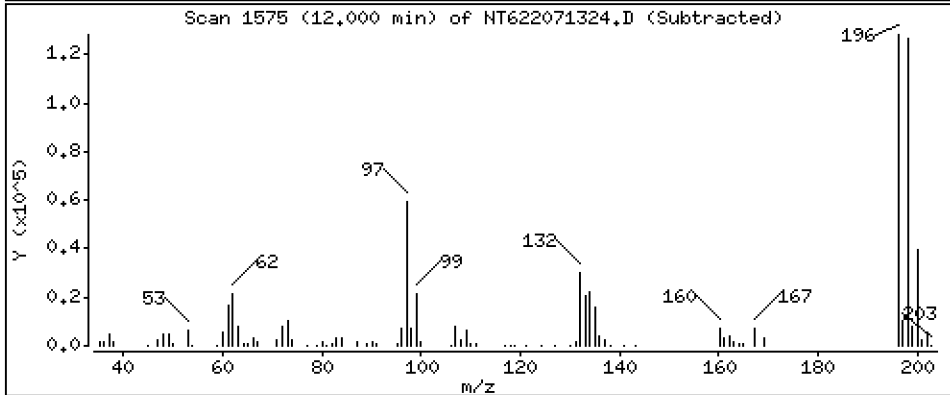
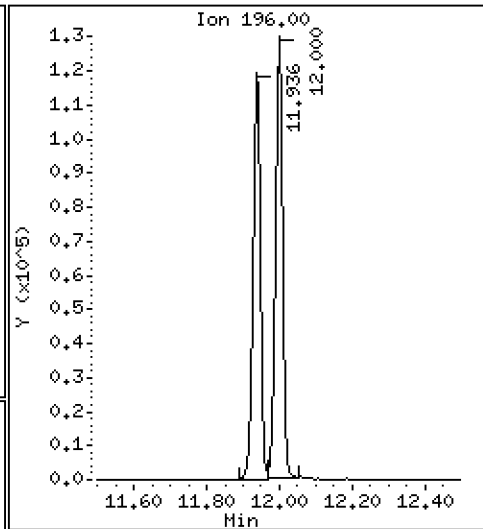
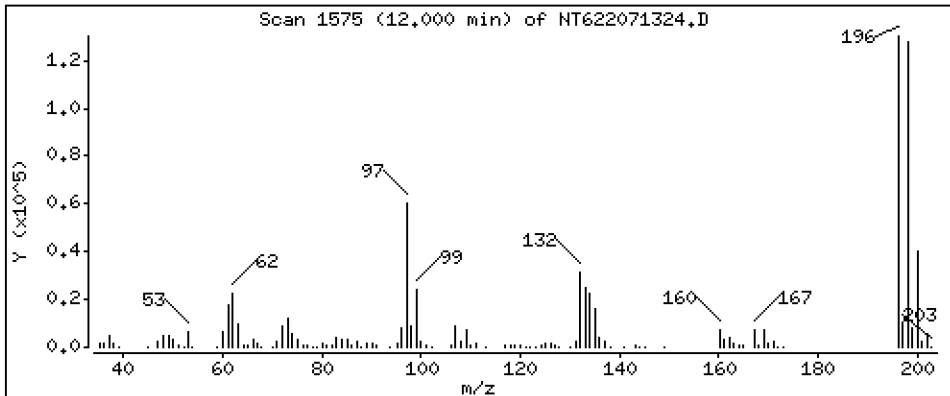
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

35 2,4,5-Trichlorophenol

Concentration: 61.04 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

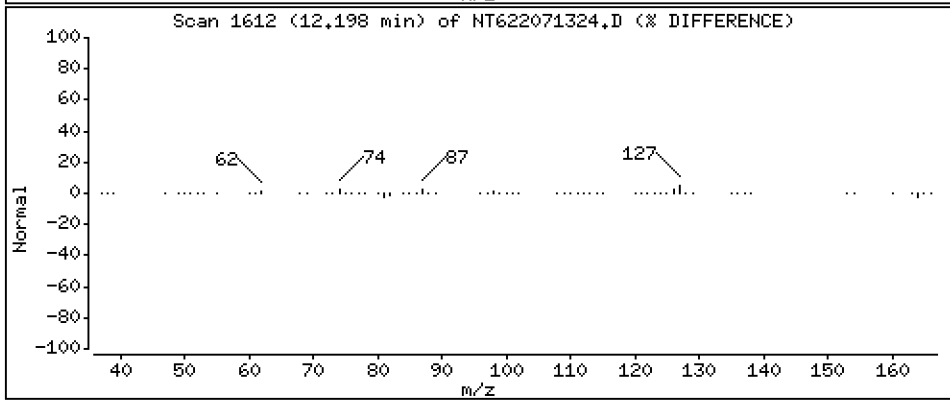
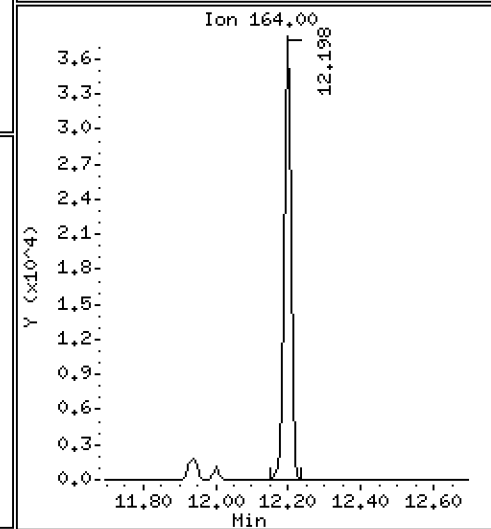
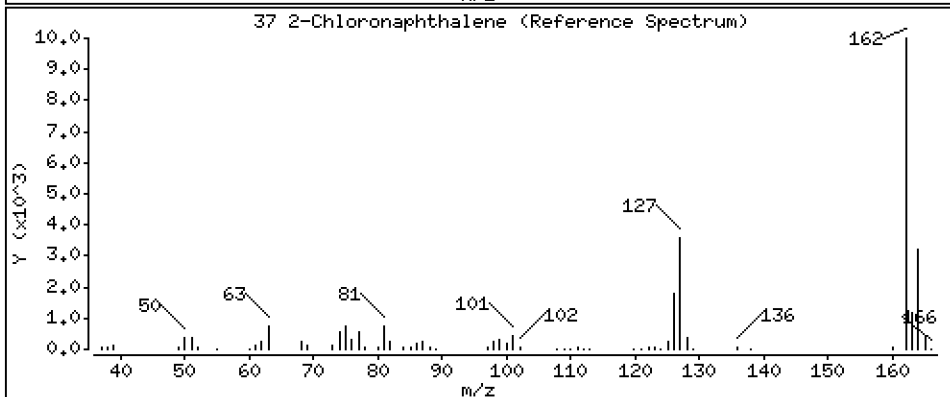
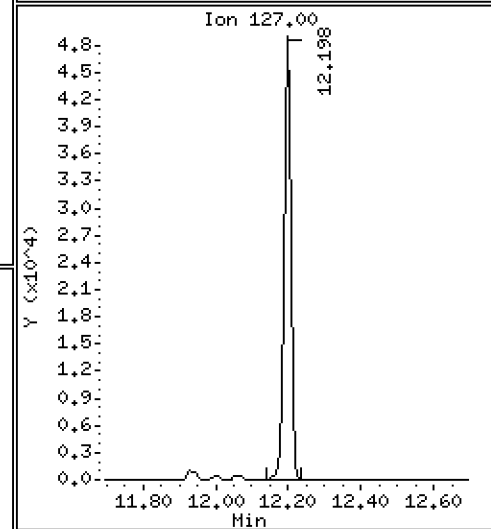
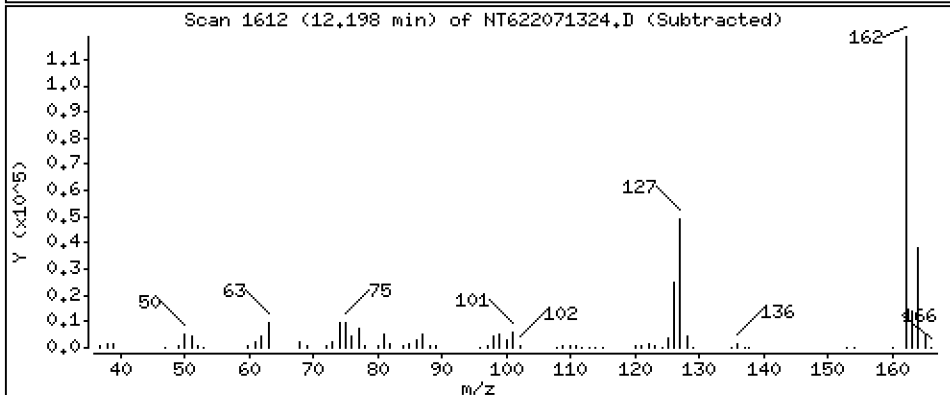
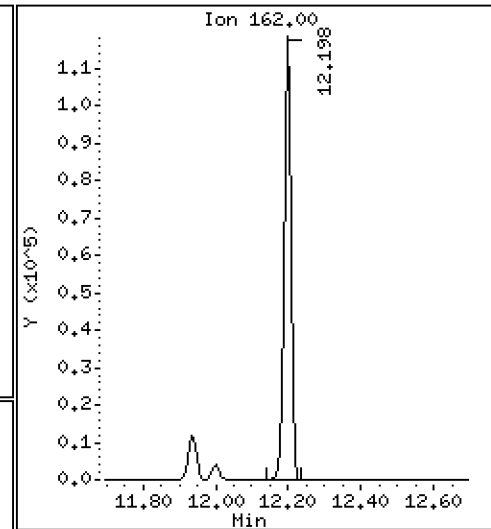
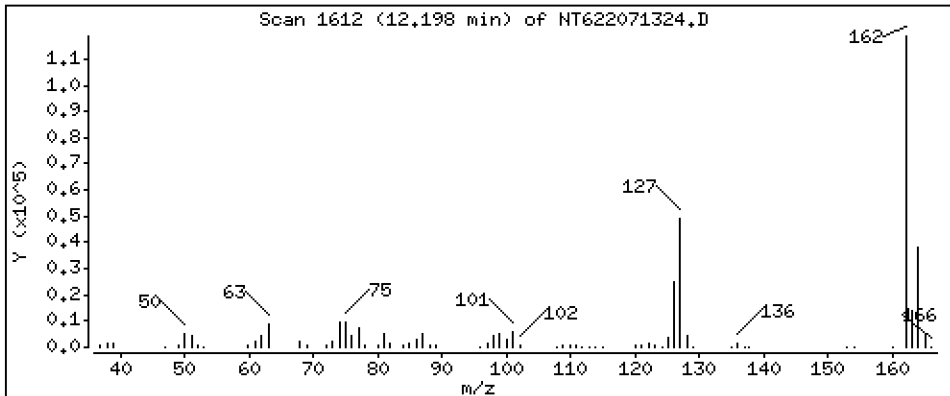
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

37 2-Chloronaphthalene

Concentration: 21.95 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

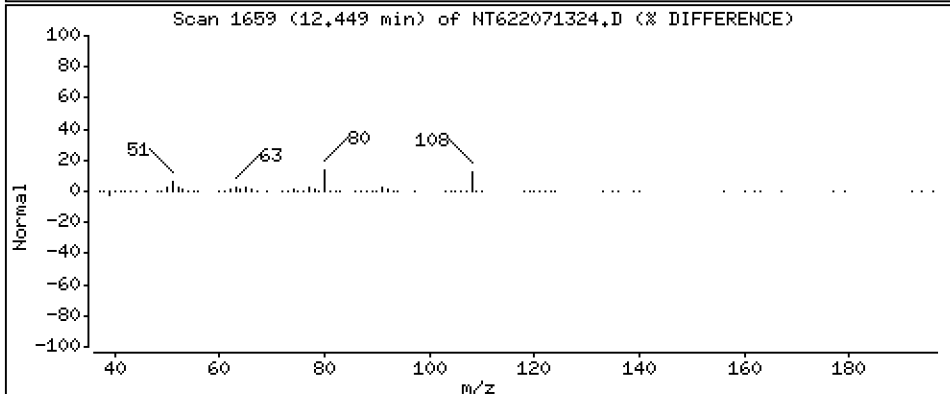
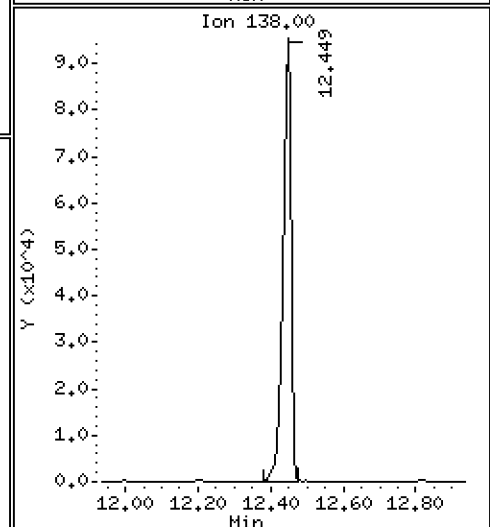
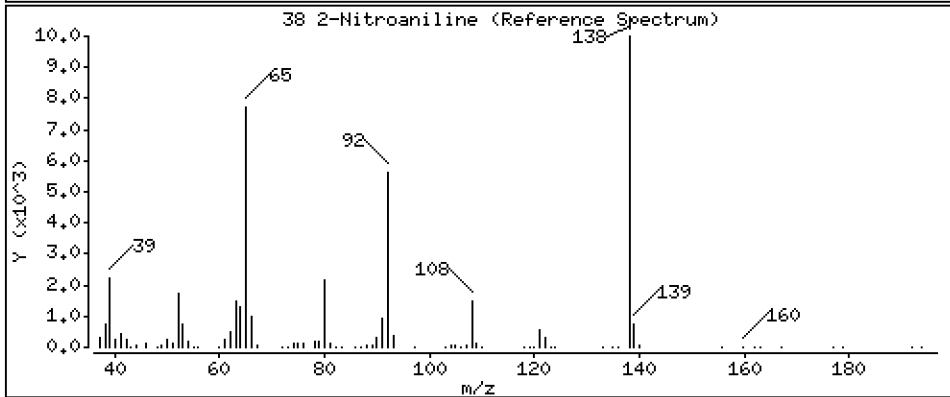
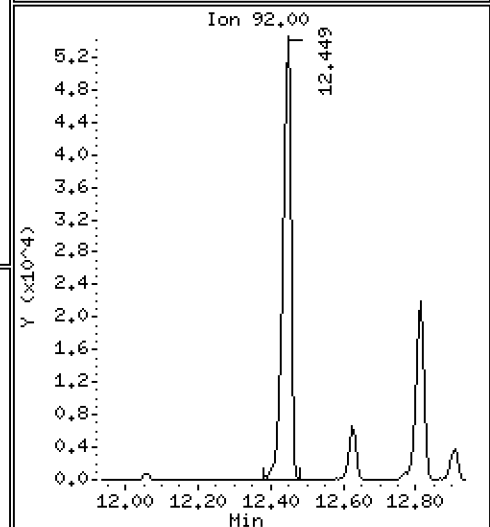
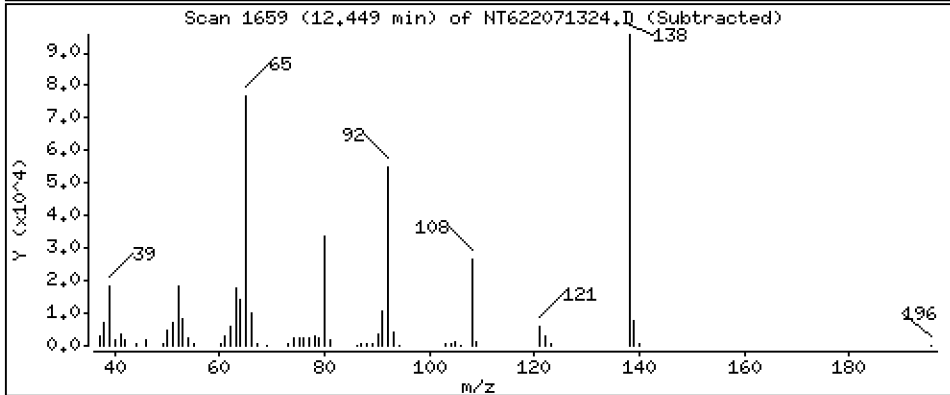
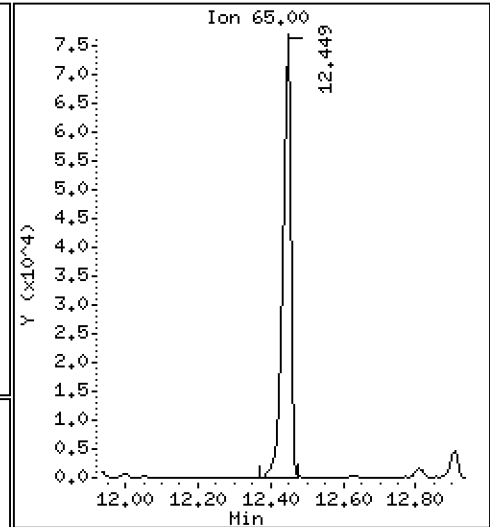
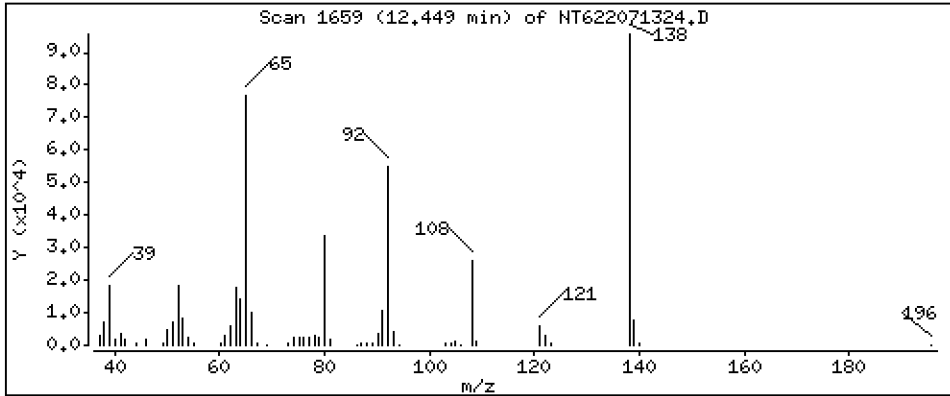
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

38 2-Nitroaniline

Concentration: 66.50 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

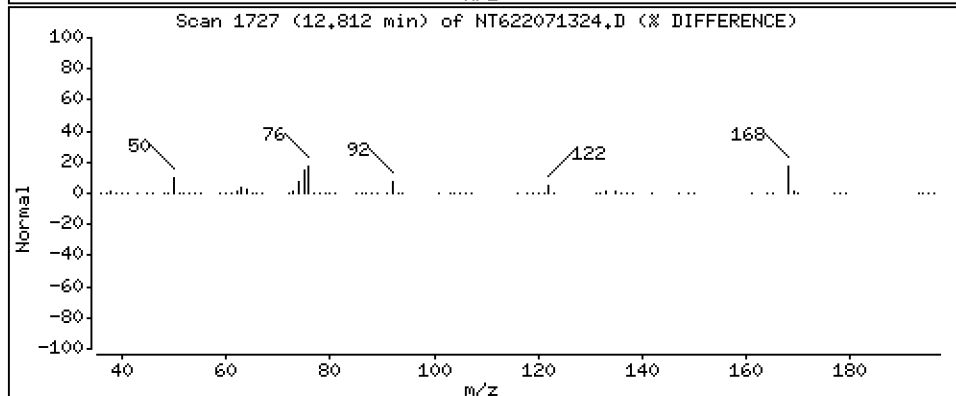
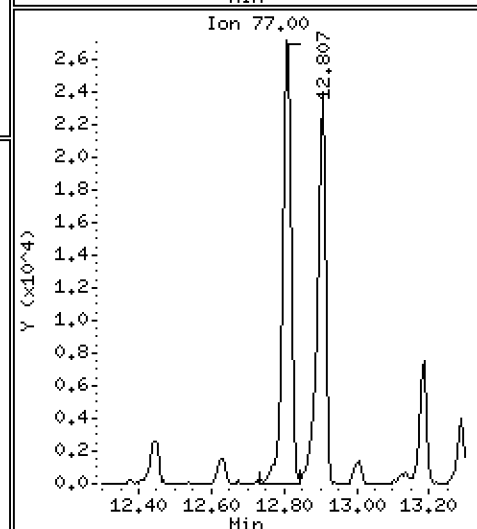
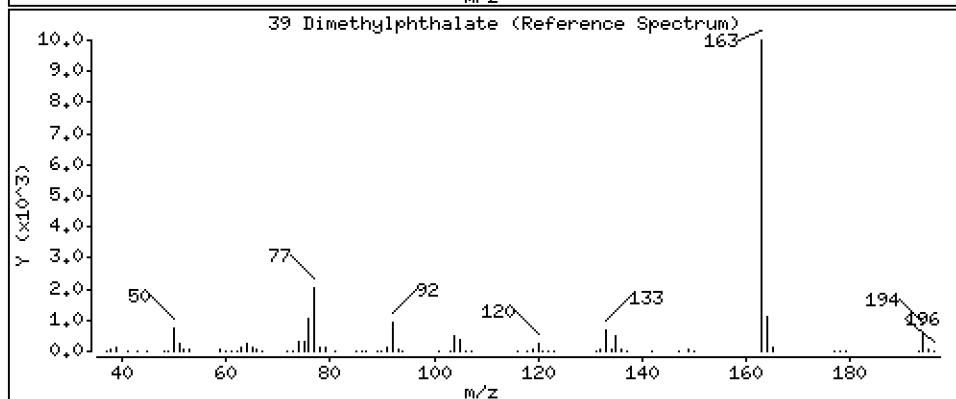
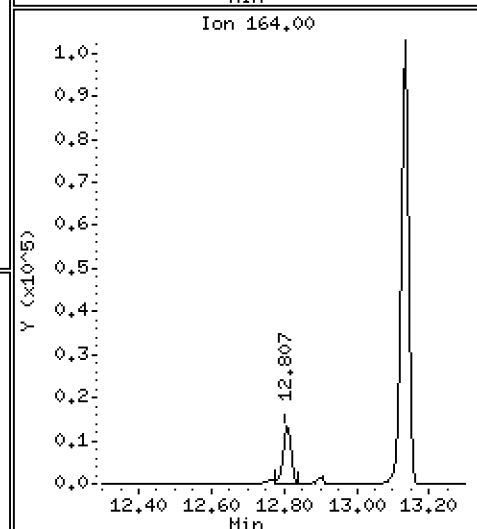
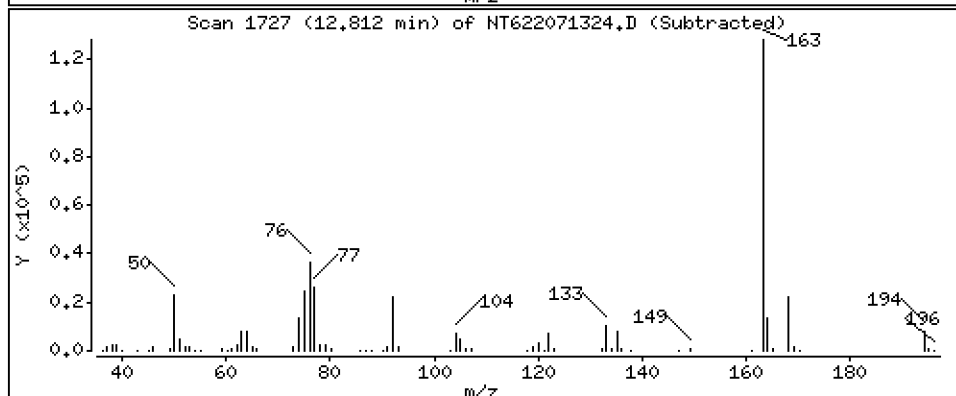
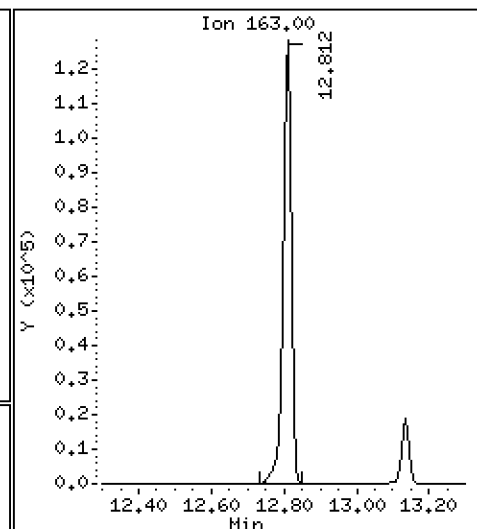
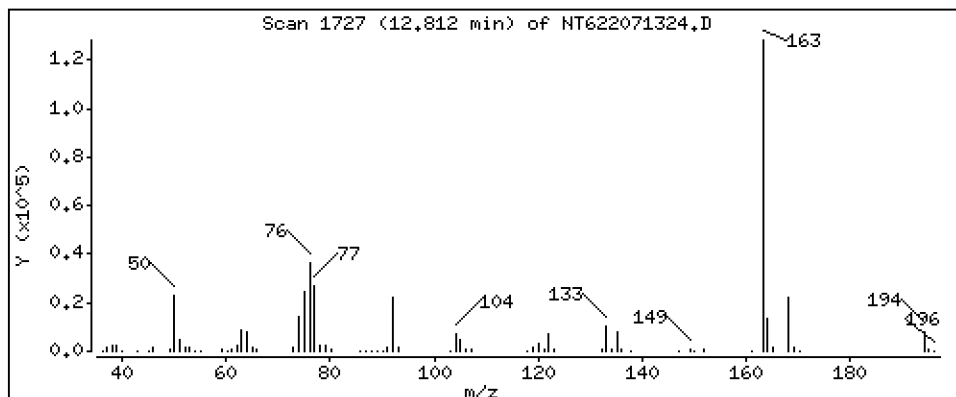
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

39 Dimethylphthalate

Concentration: 26.39 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

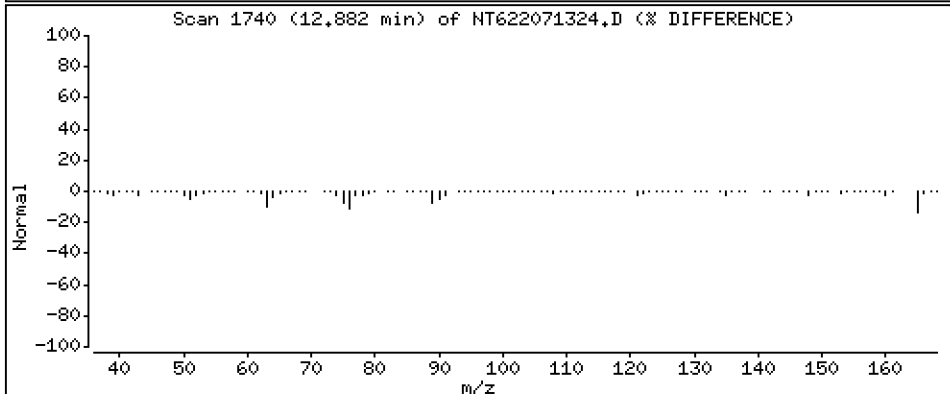
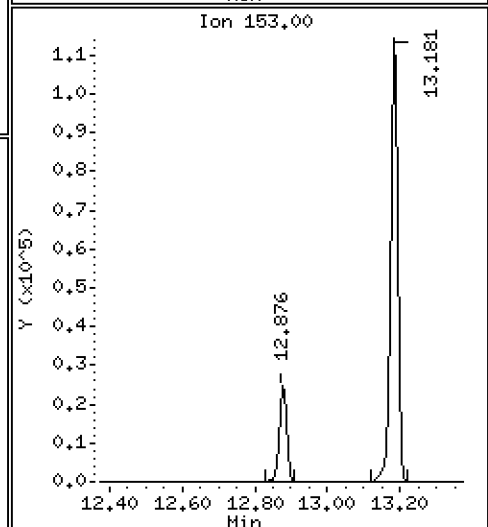
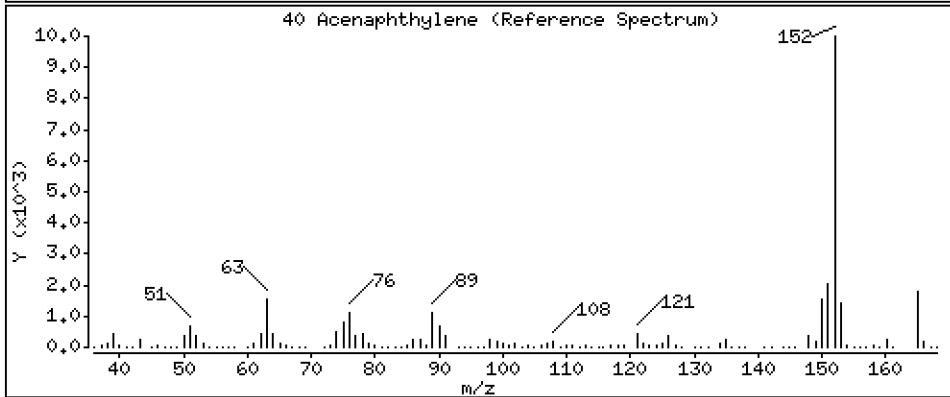
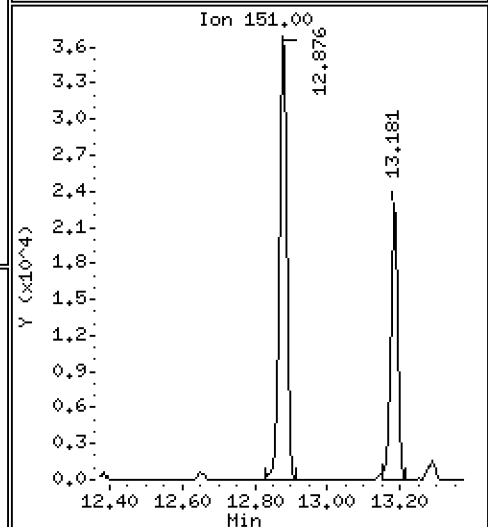
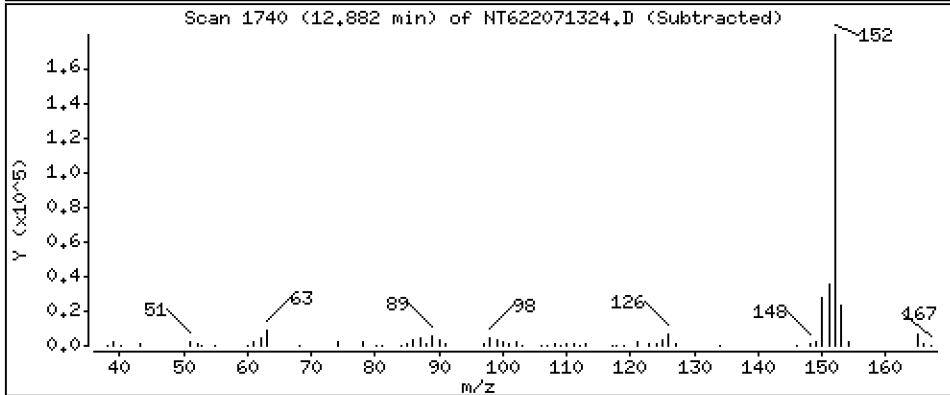
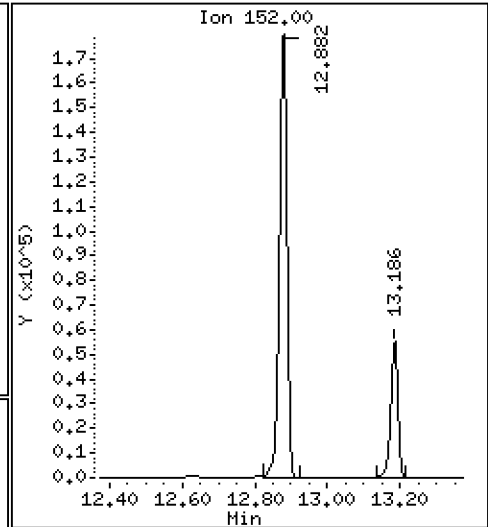
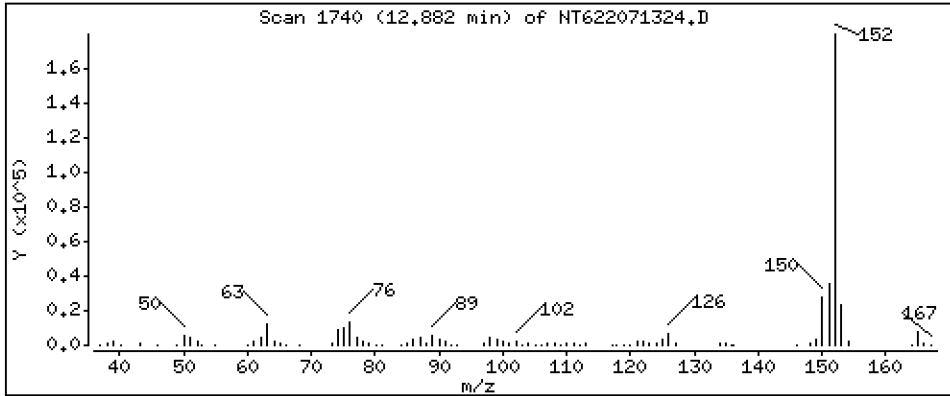
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

40 Acenaphthylene

Concentration: 23,11 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

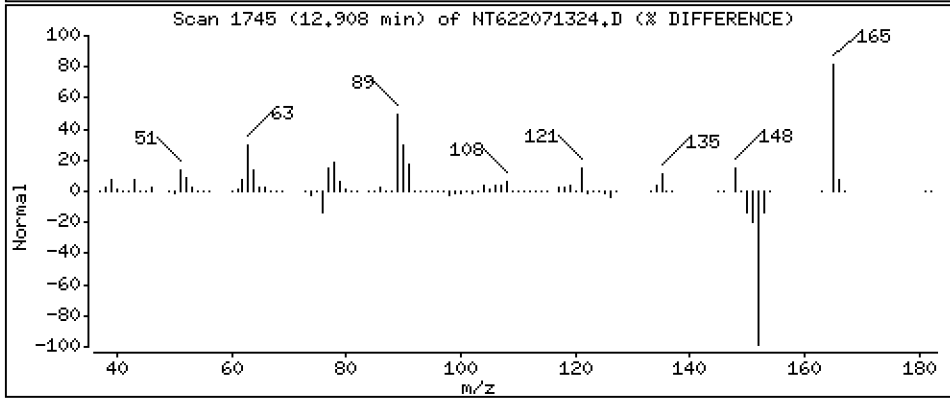
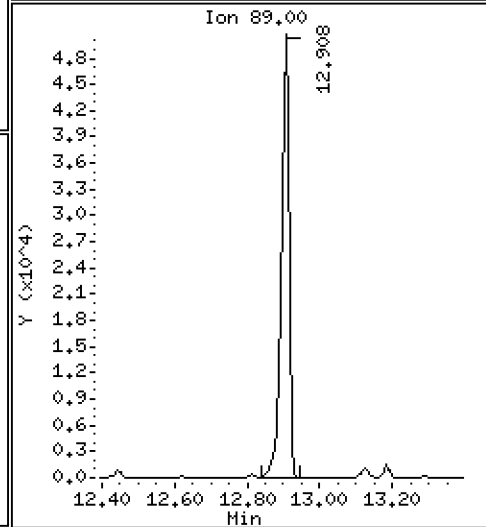
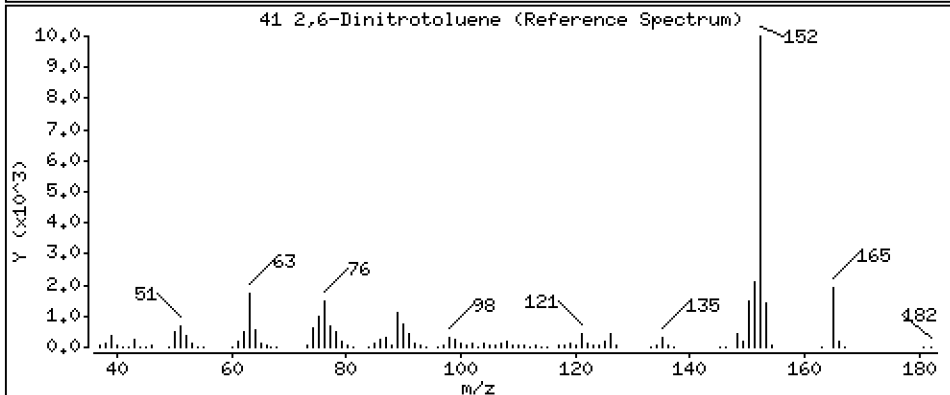
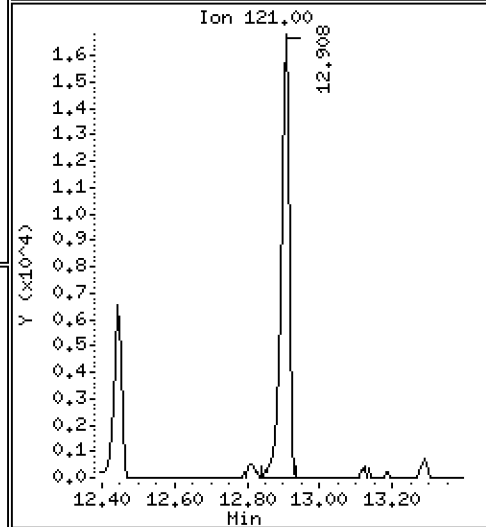
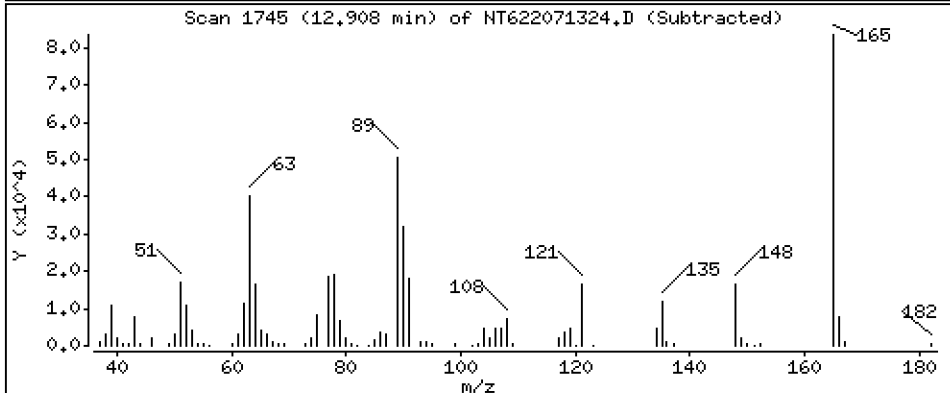
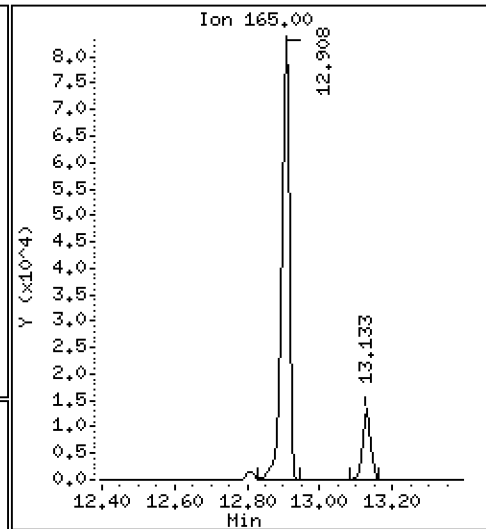
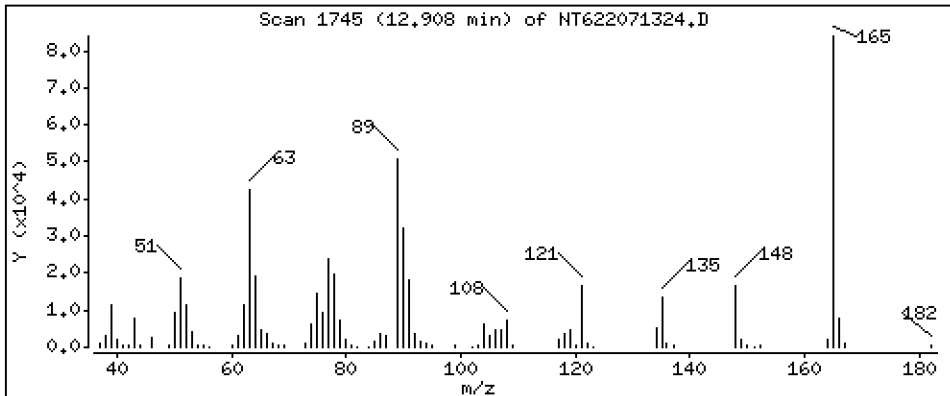
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

41 2,6-Dinitrotoluene

Concentration: 70.87 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

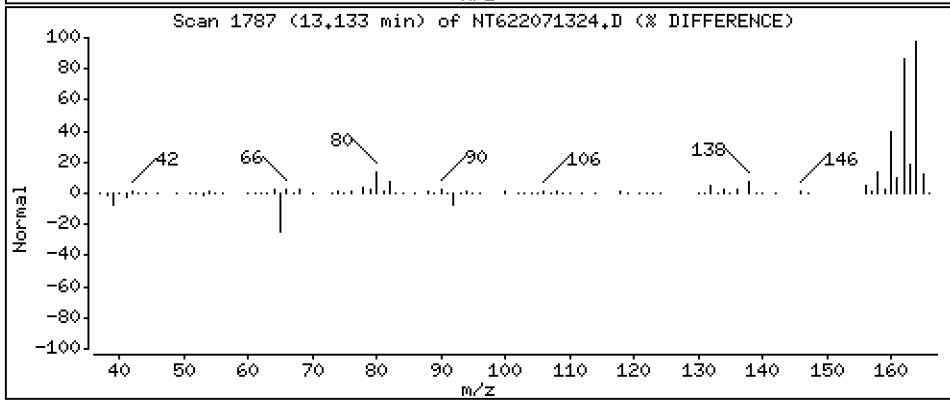
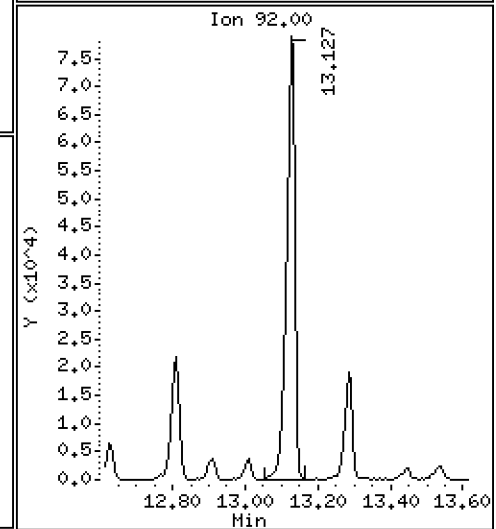
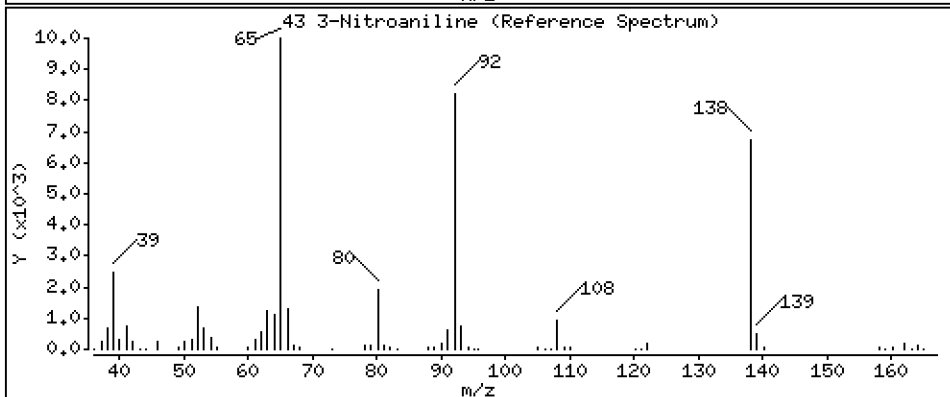
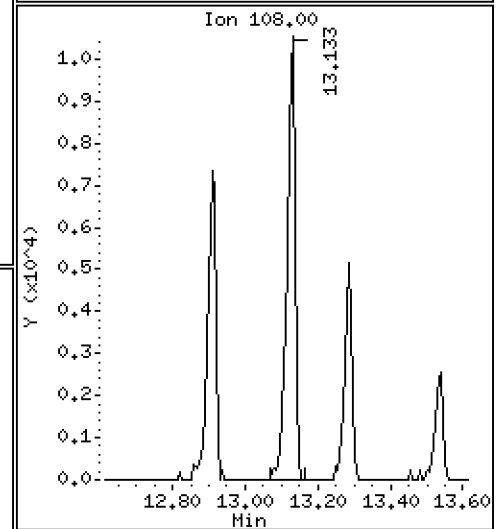
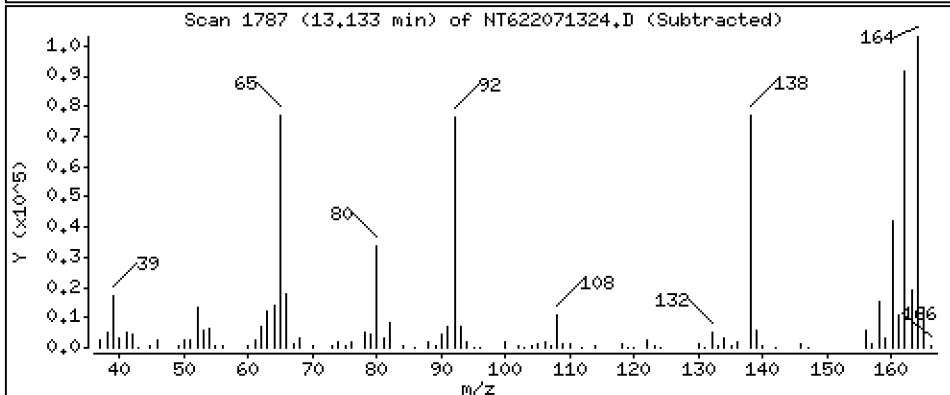
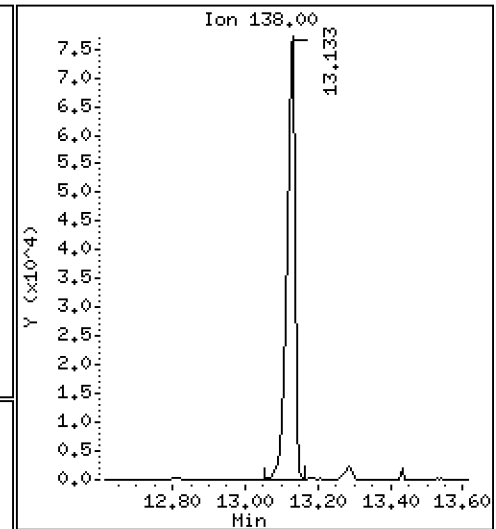
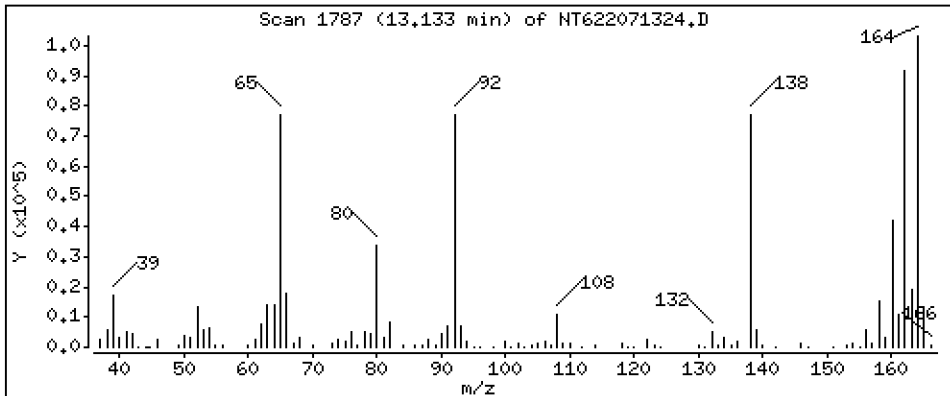
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

43 3-Nitroaniline

Concentration: 70.65 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

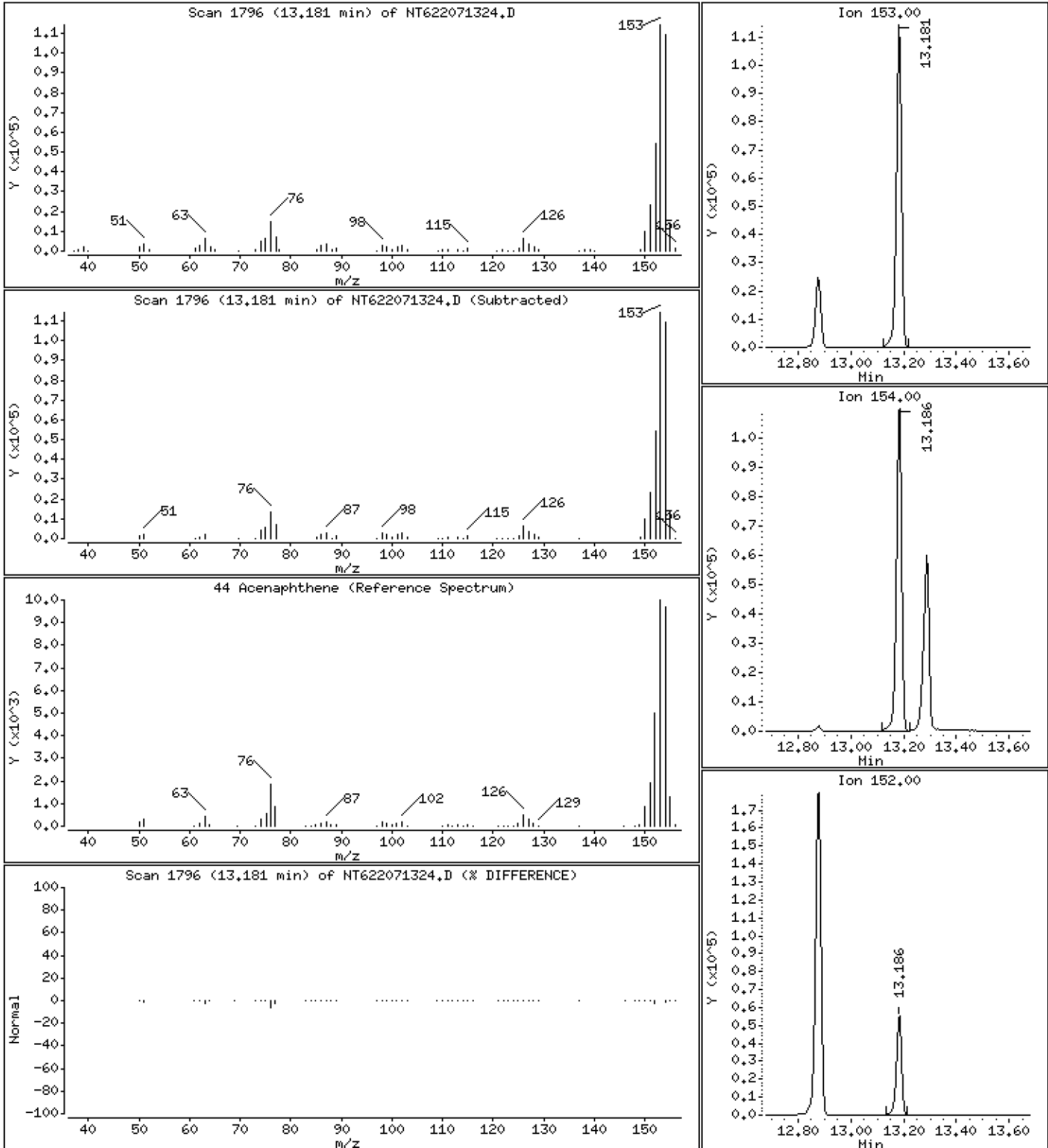
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

44 Acenaphthene

Concentration: 23.02 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

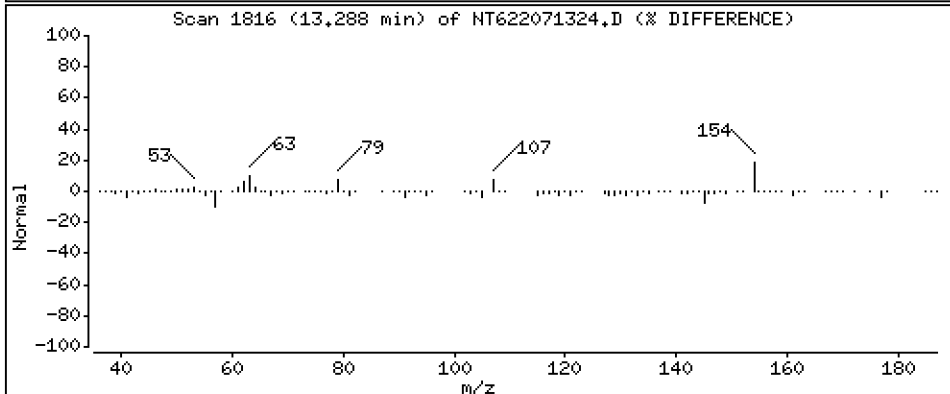
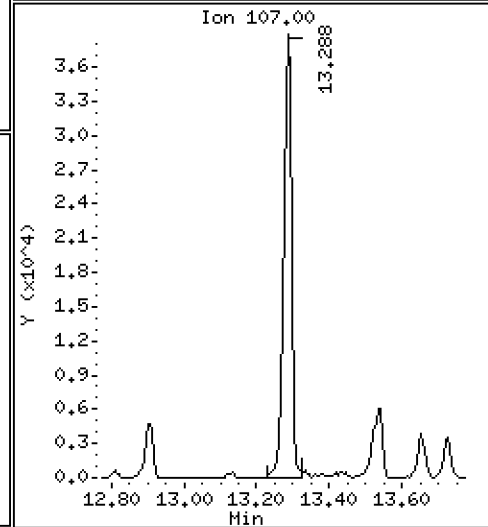
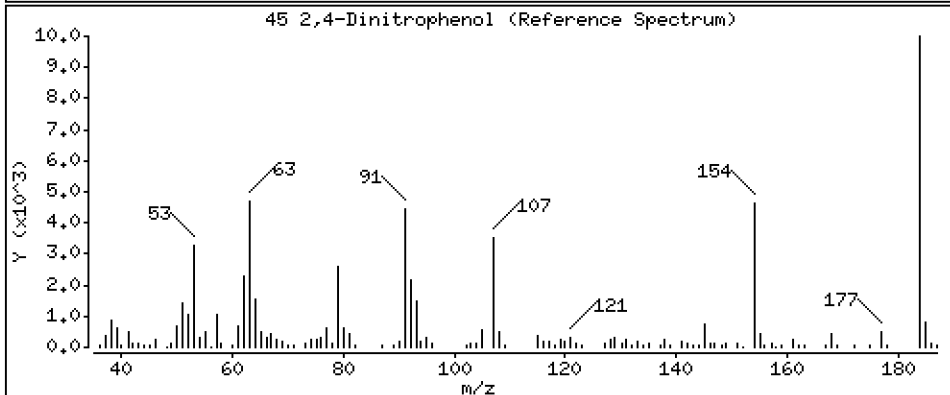
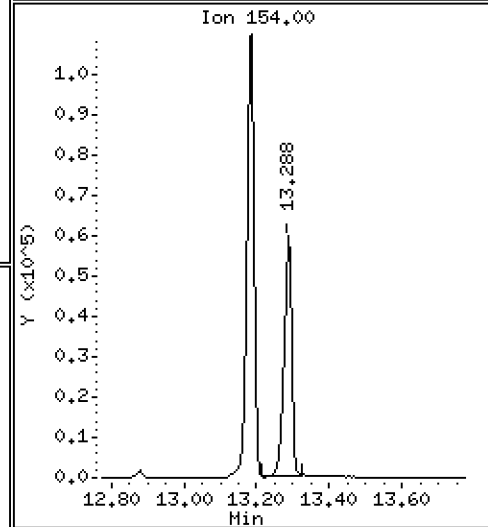
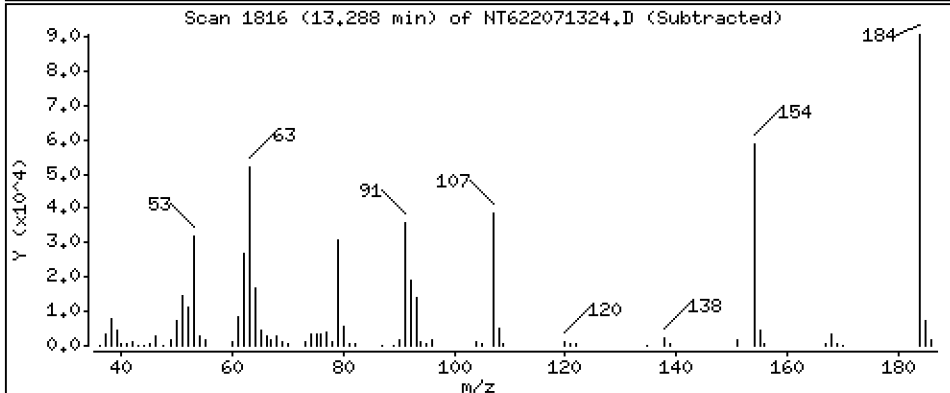
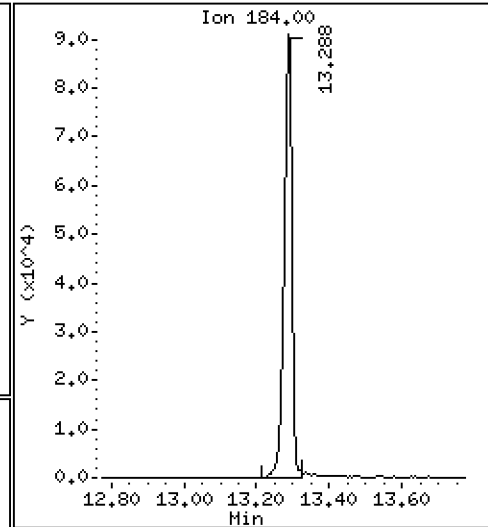
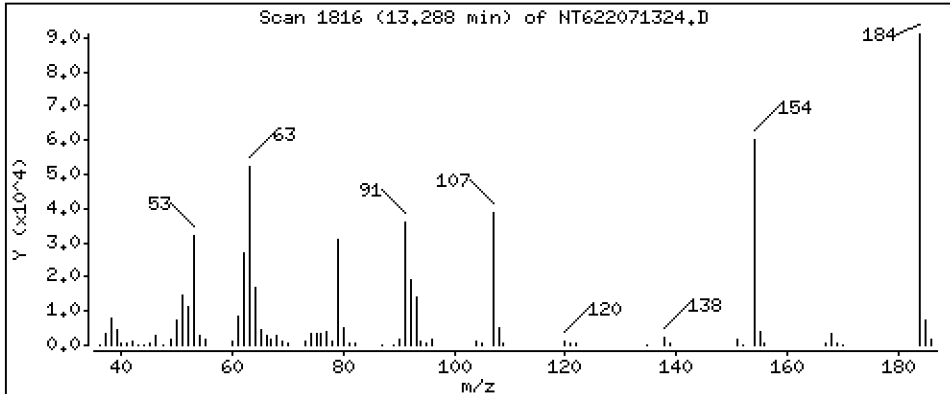
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

45 2,4-Dinitrophenol

Concentration: 114.3 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

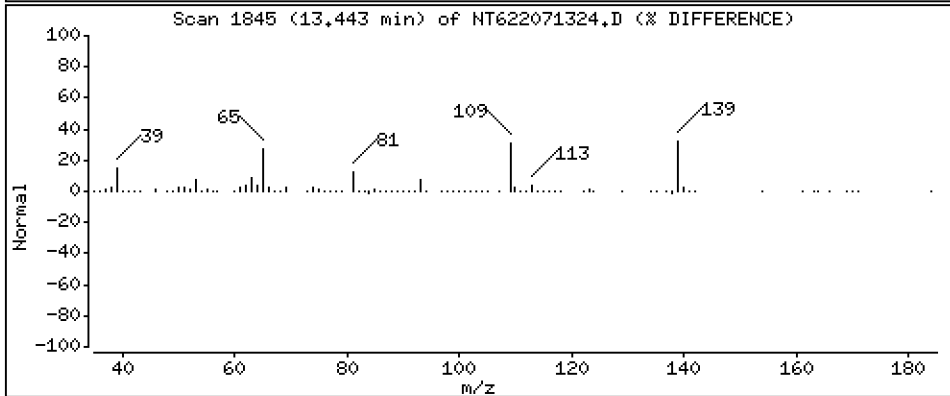
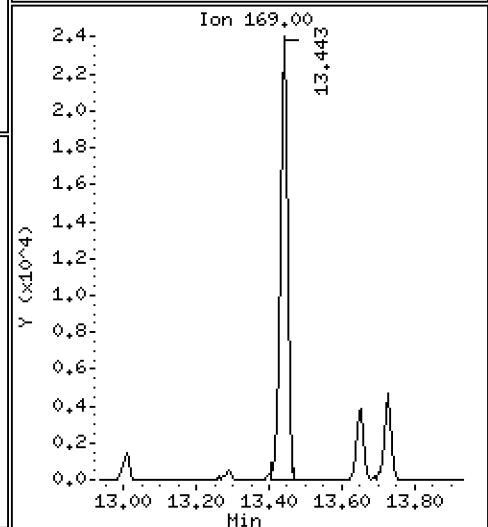
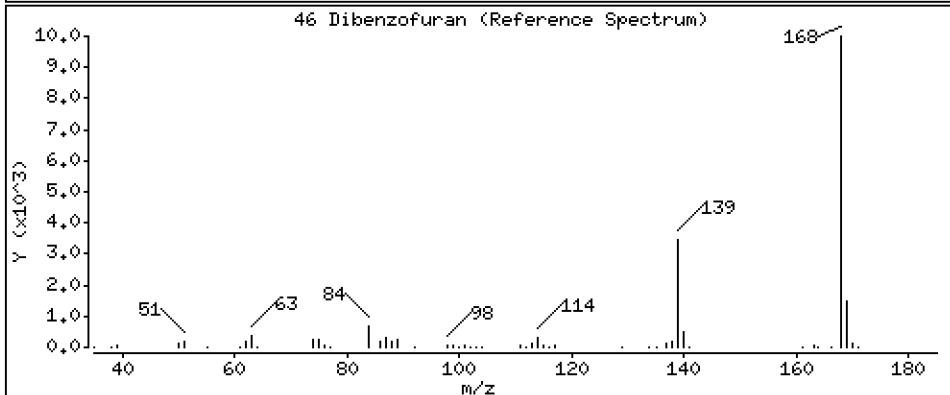
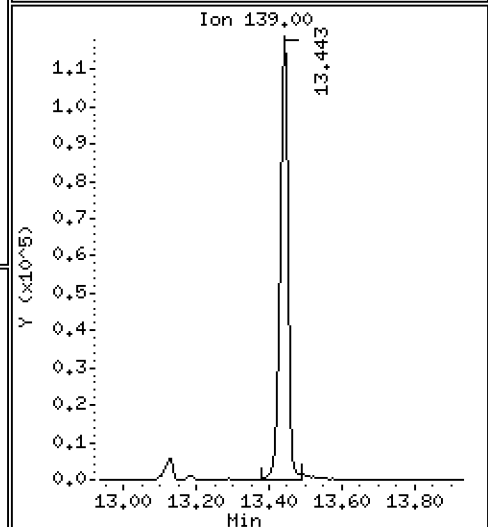
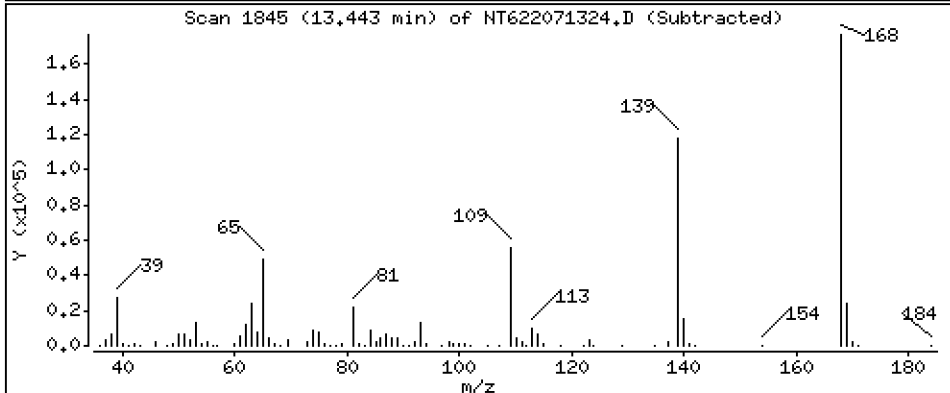
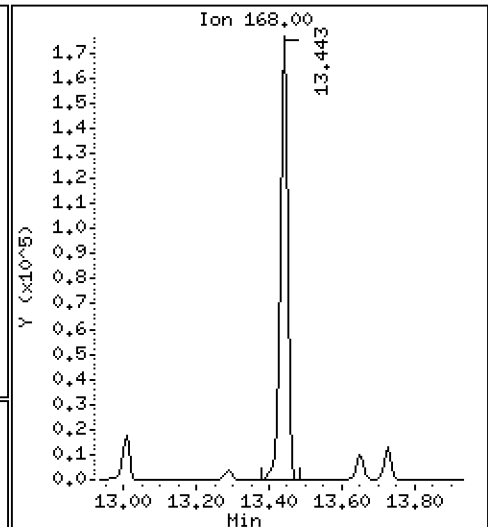
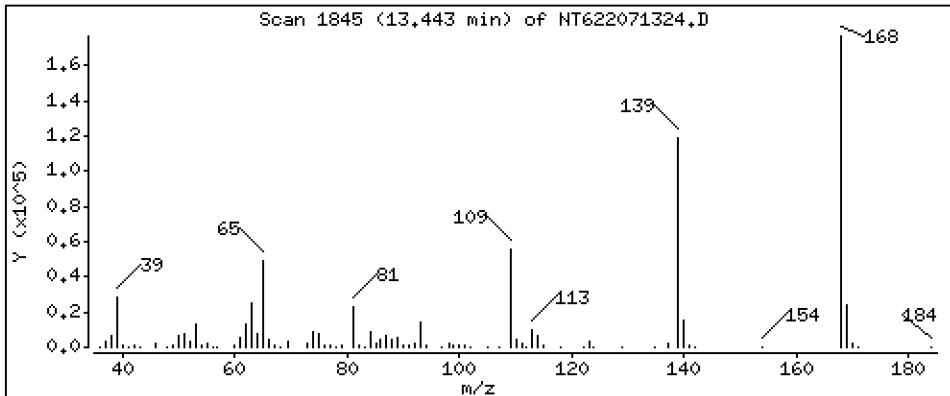
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

46 Dibenzofuran

Concentration: 25.47 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

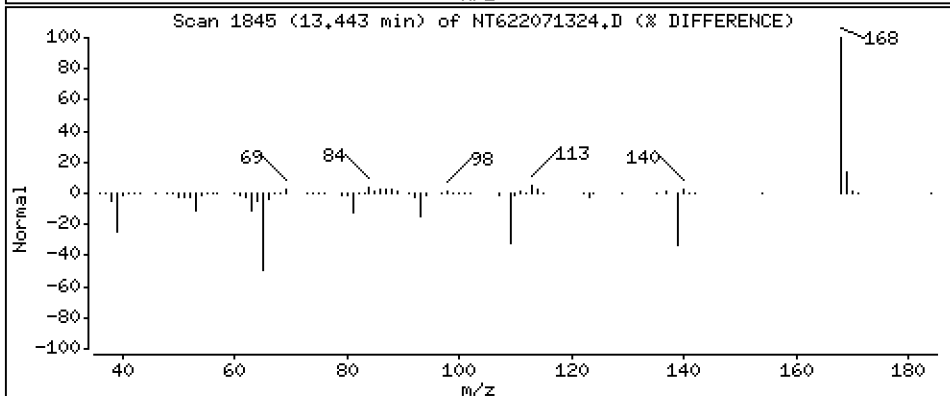
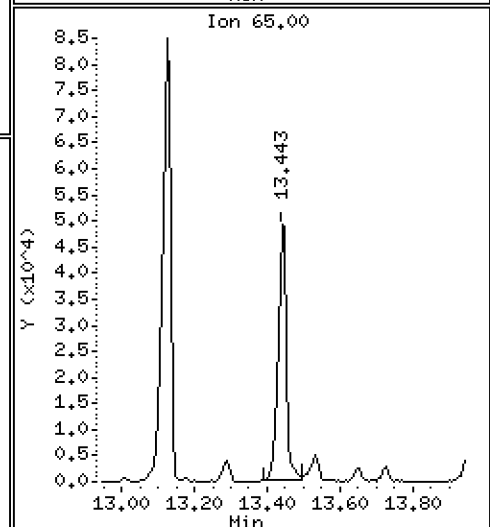
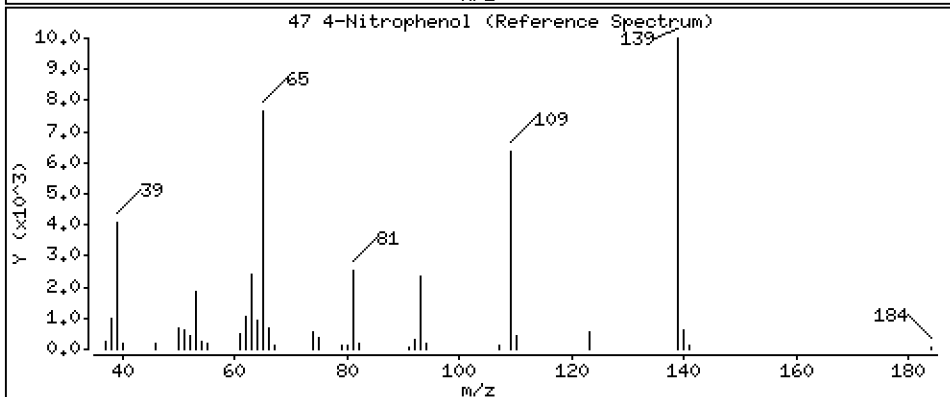
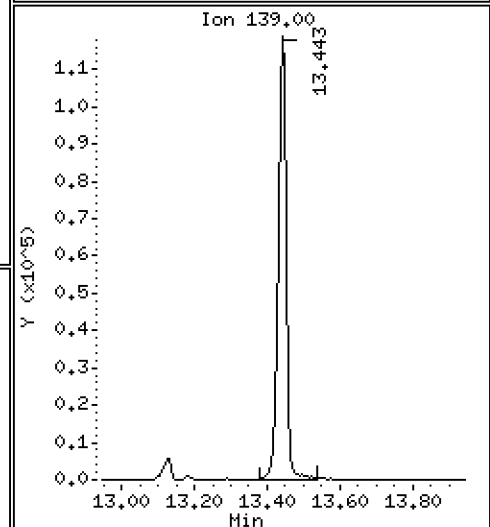
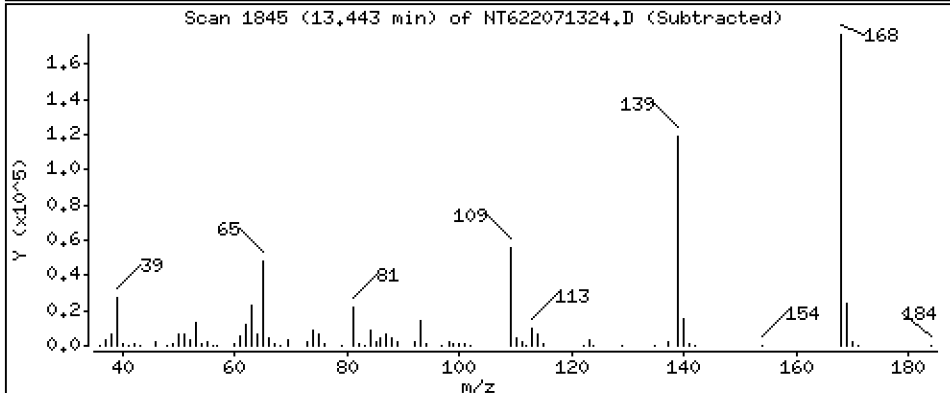
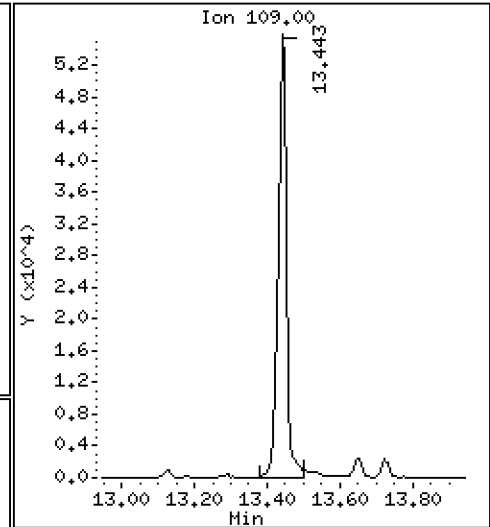
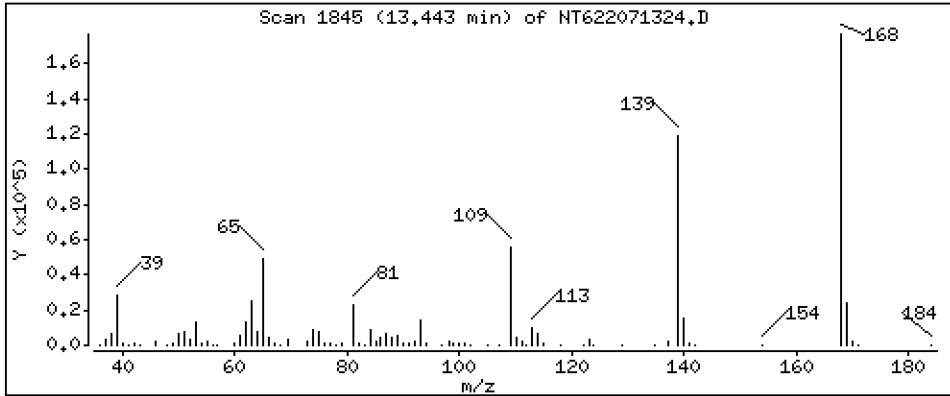
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

47 4-Nitrophenol

Concentration: 72.47 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

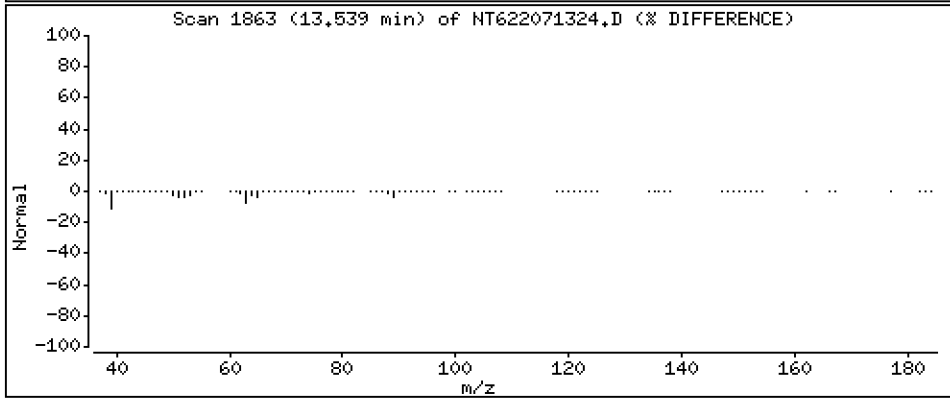
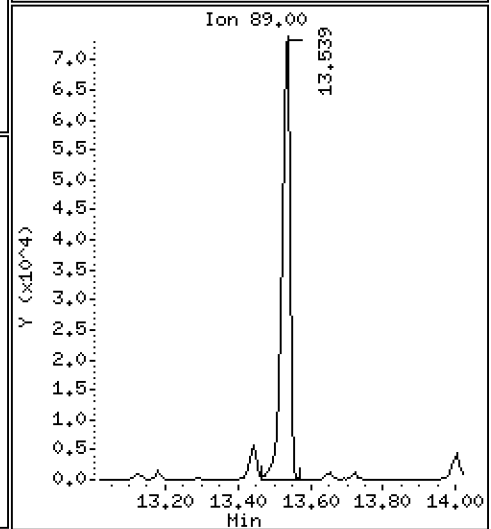
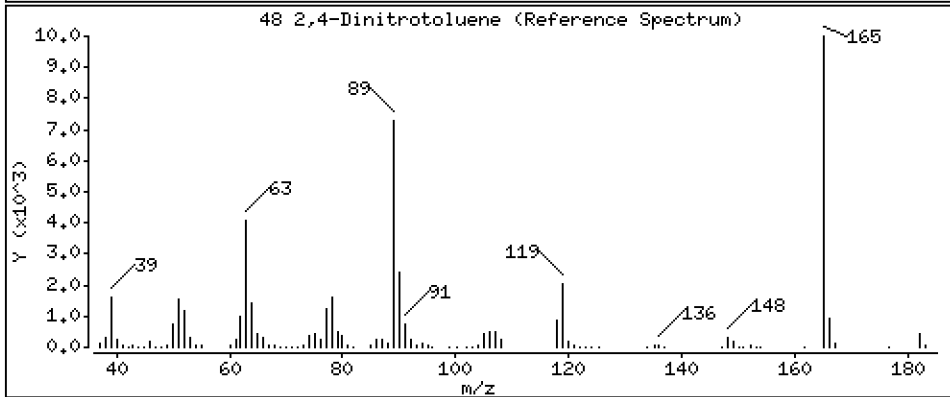
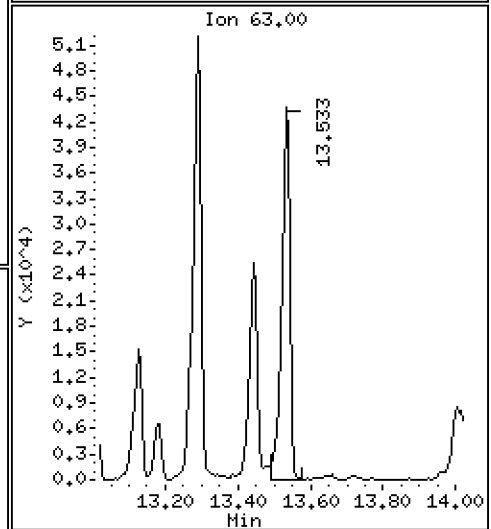
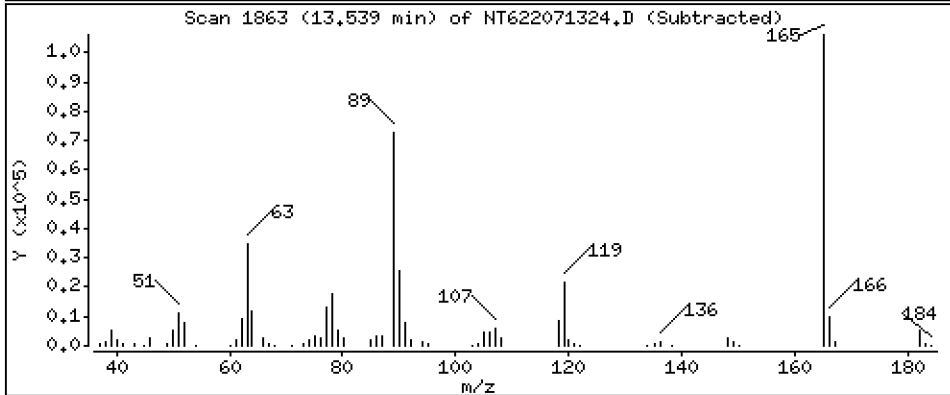
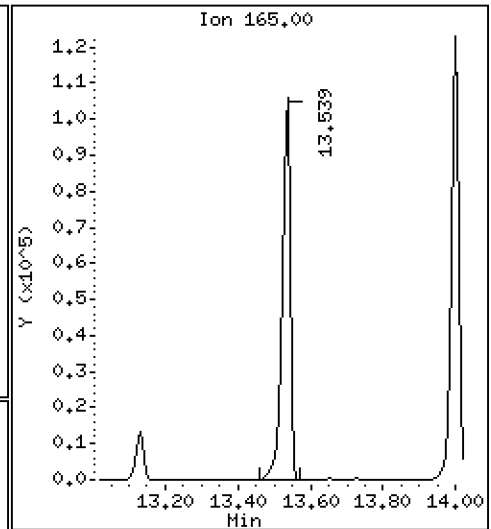
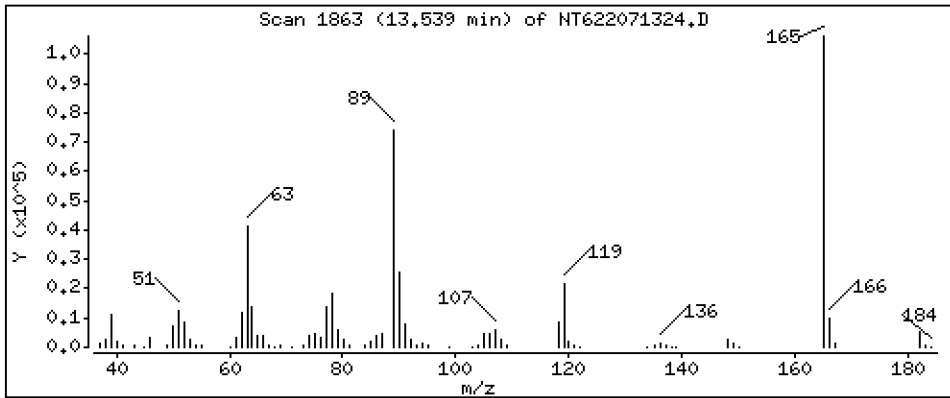
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

48 2,4-Dinitrotoluene

Concentration: 72.90 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

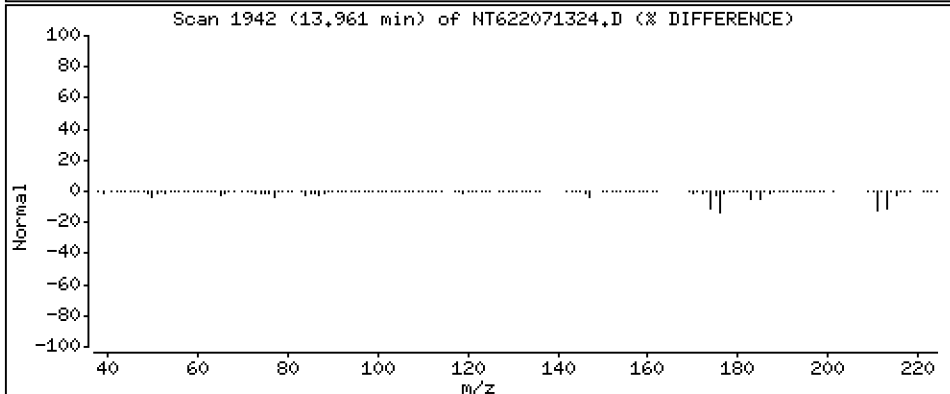
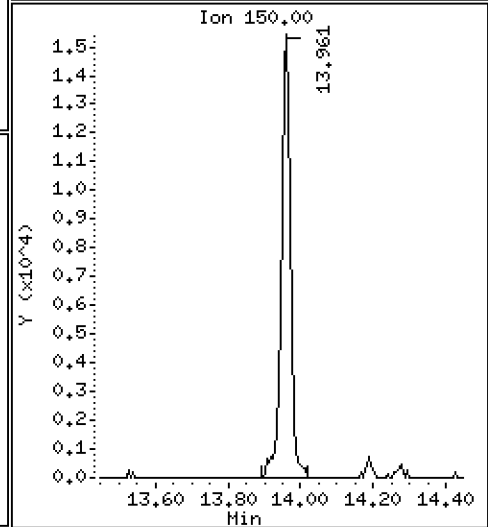
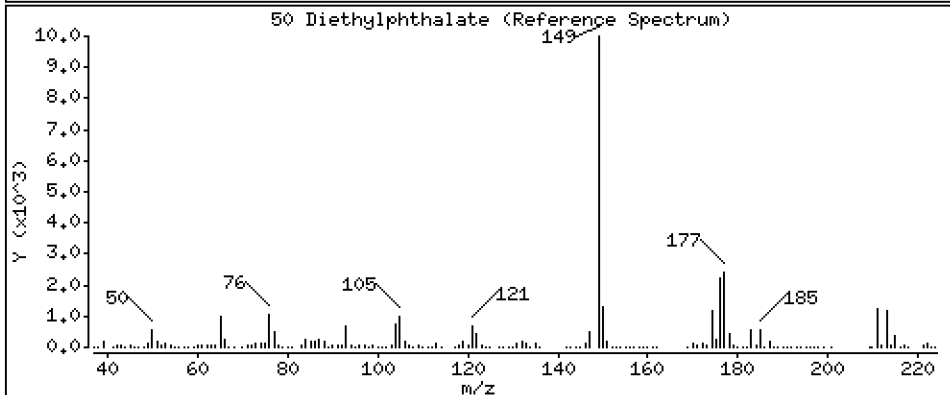
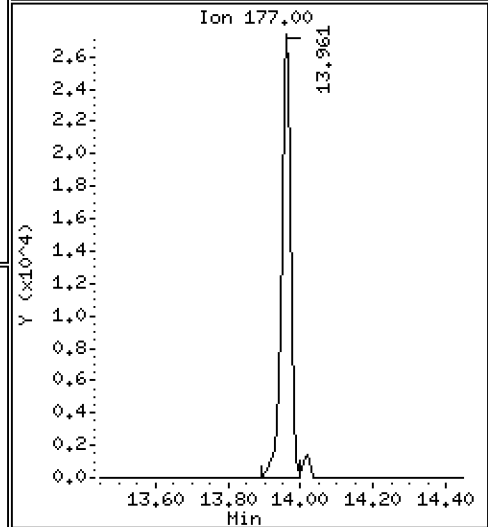
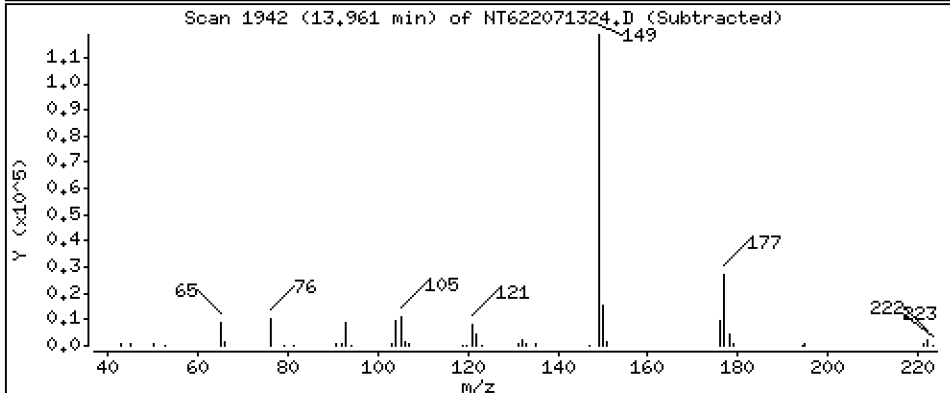
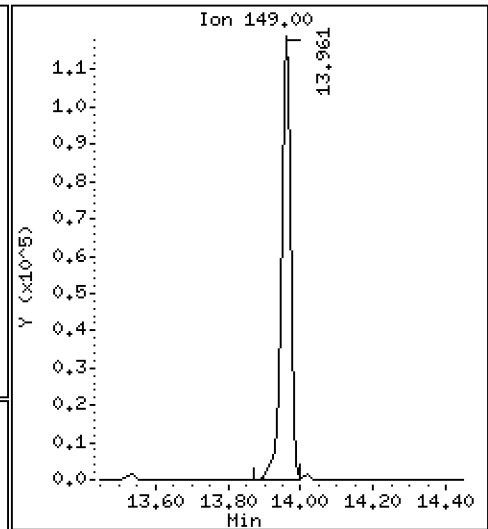
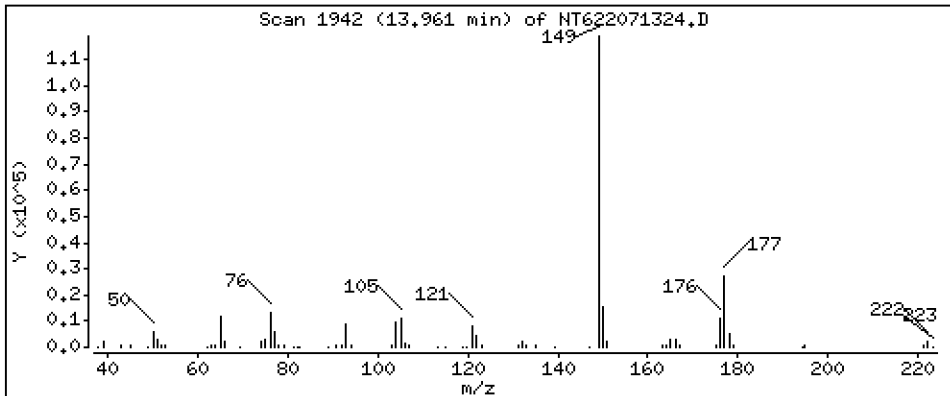
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

50 Diethylphthalate

Concentration: 28.39 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

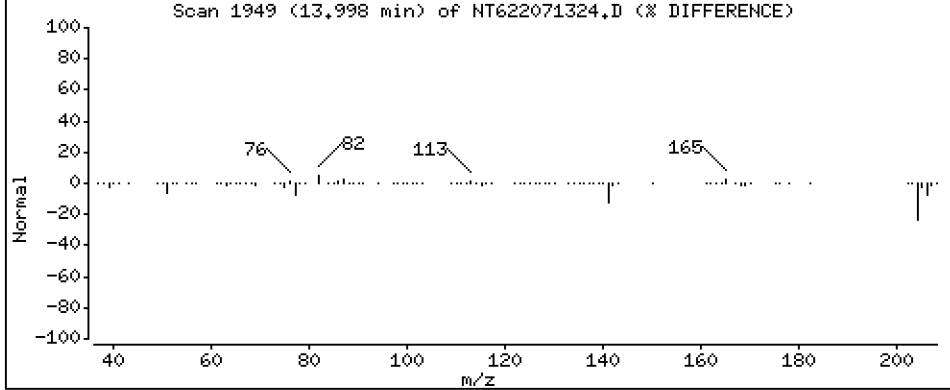
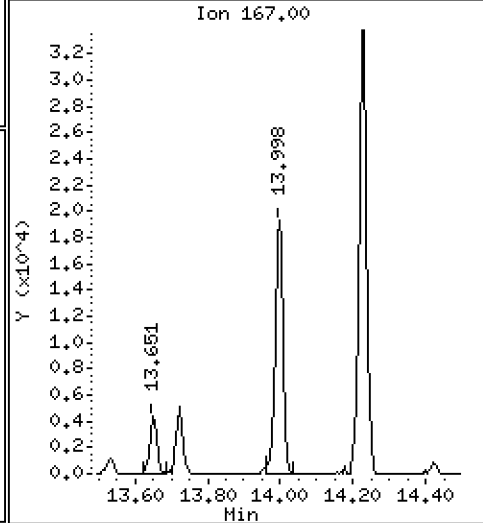
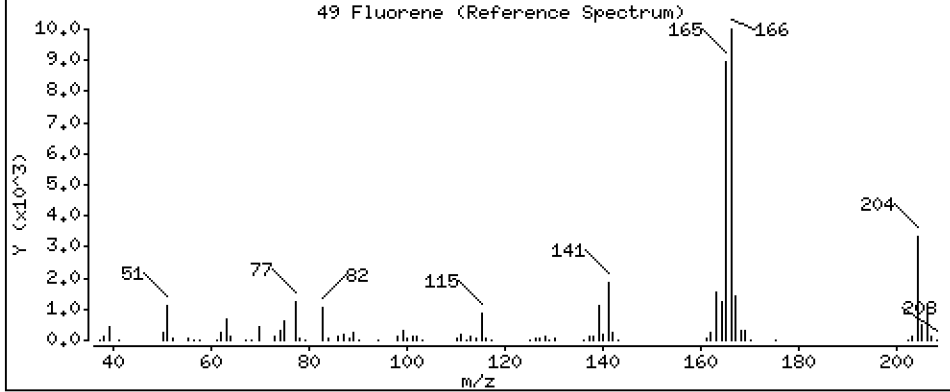
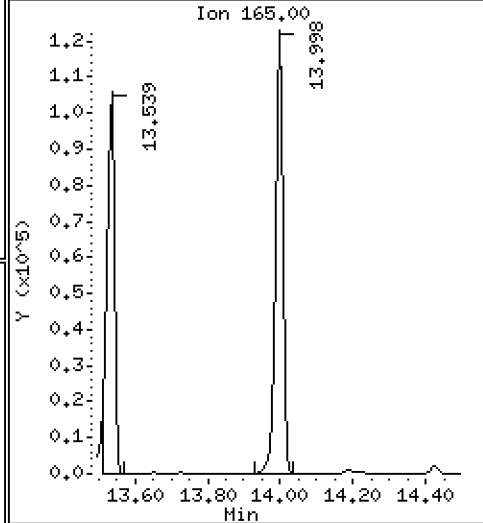
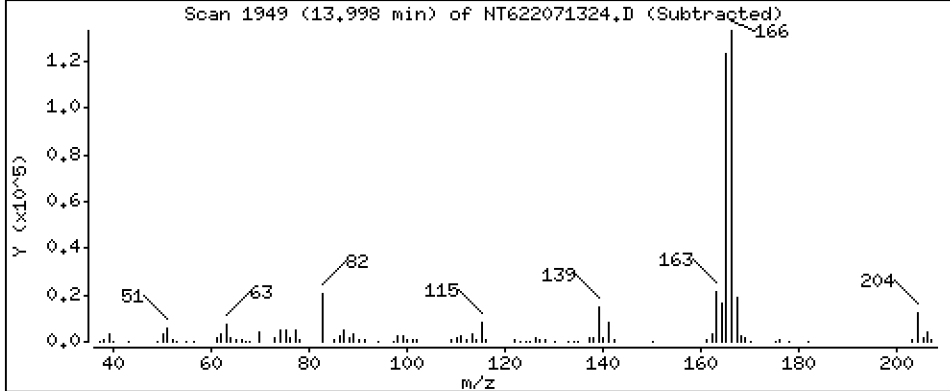
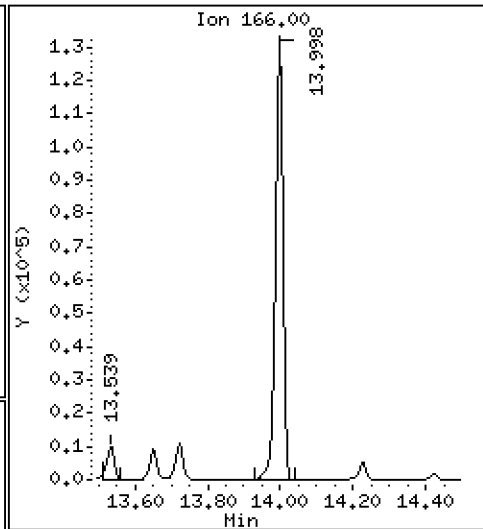
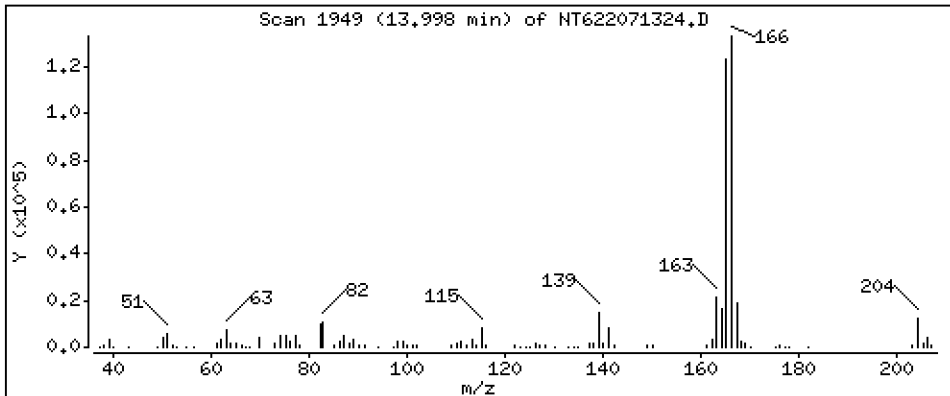
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

49 Fluorene

Concentration: 24.44 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

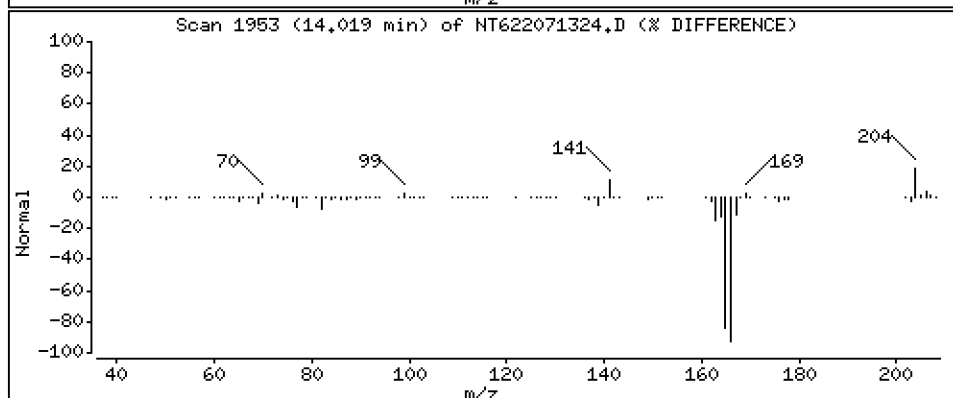
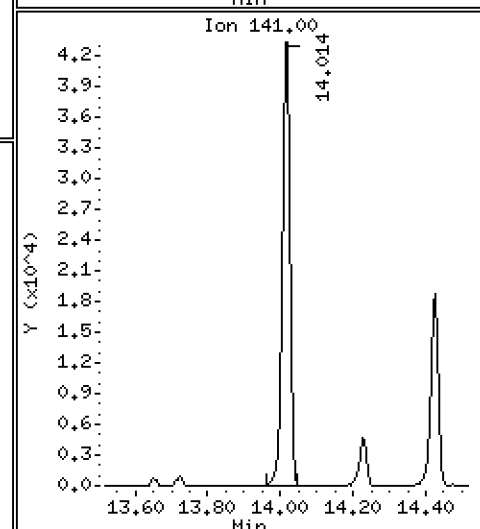
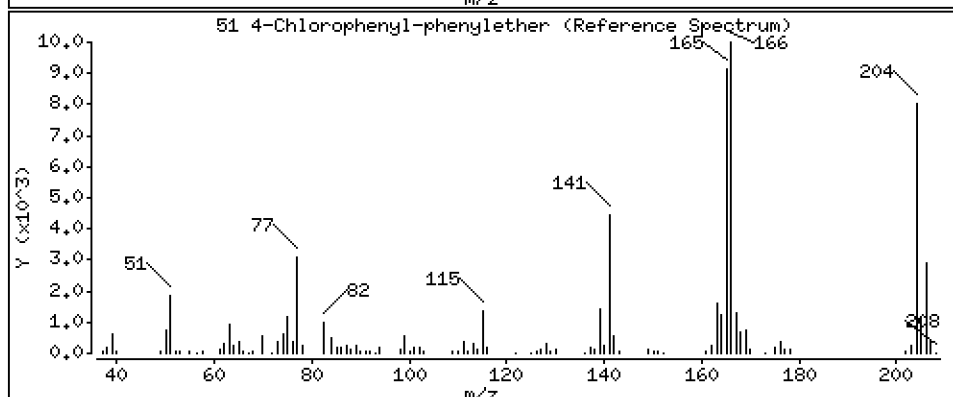
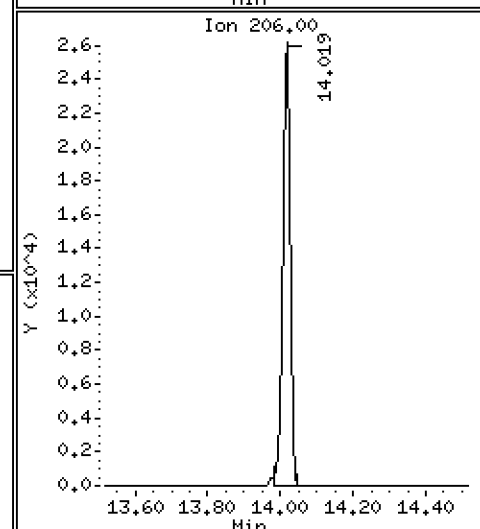
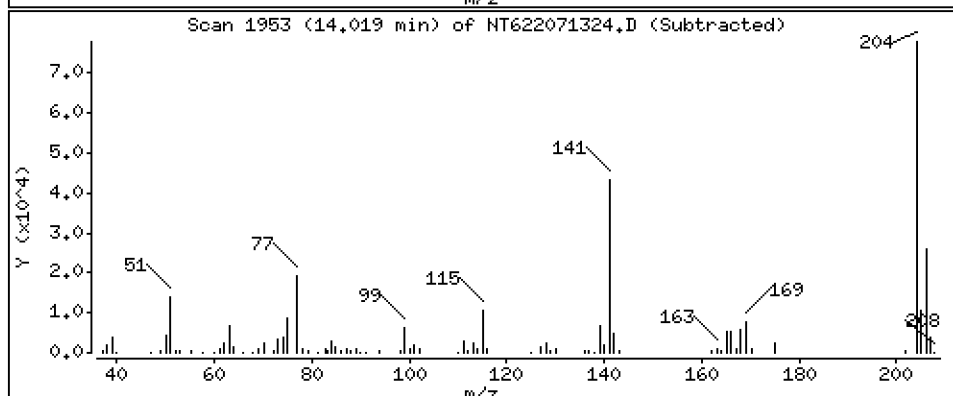
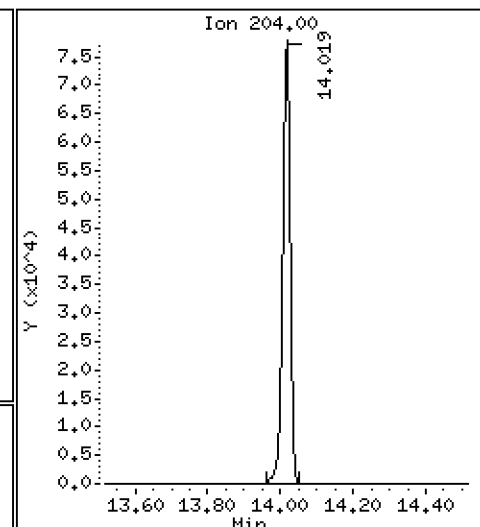
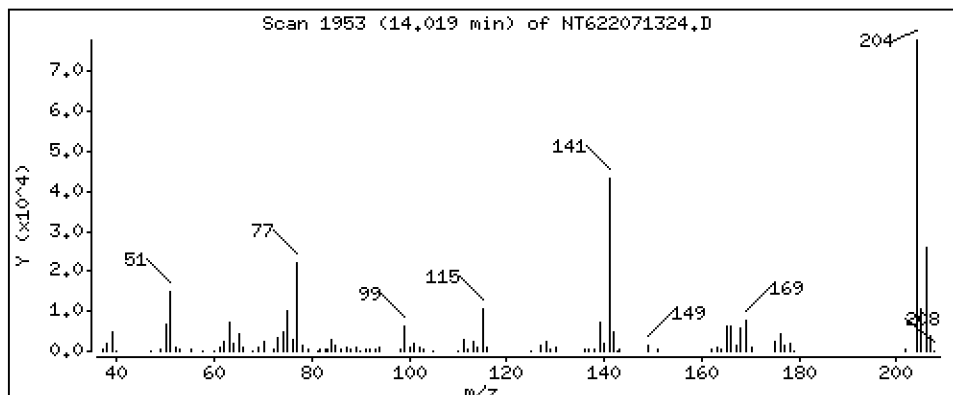
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

51 4-Chlorophenyl-phenylether

Concentration: 25.63 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

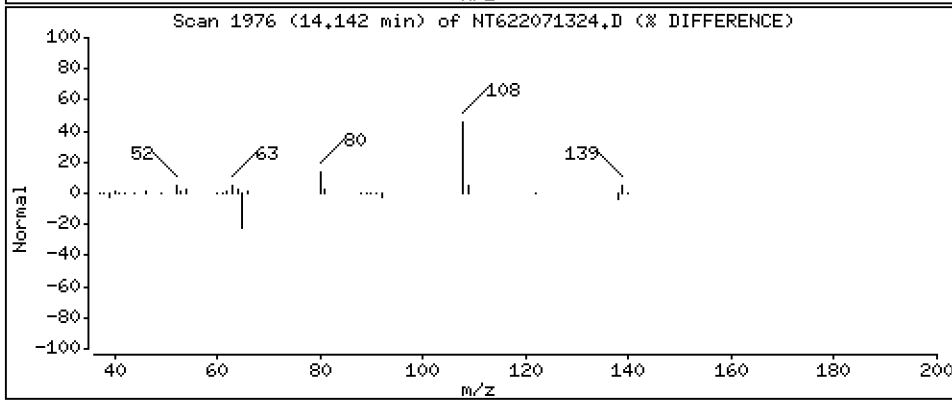
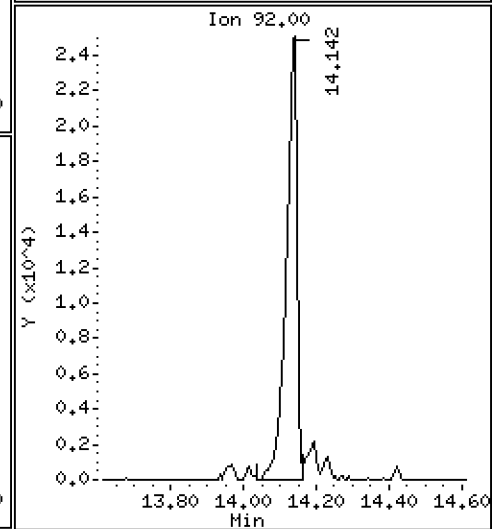
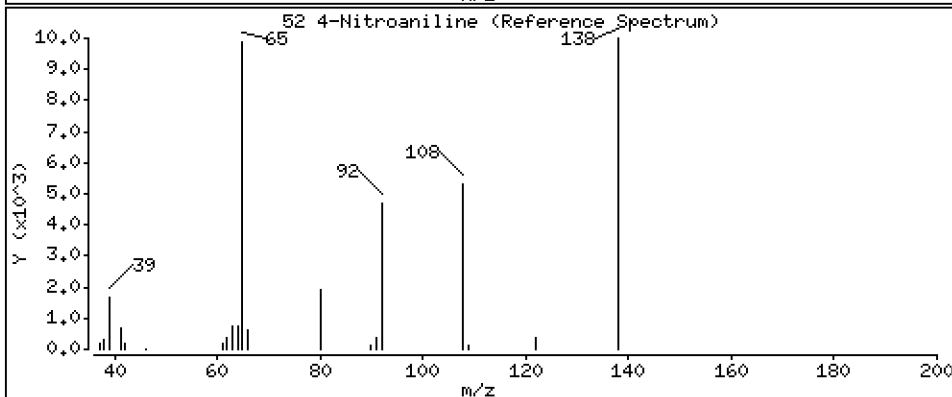
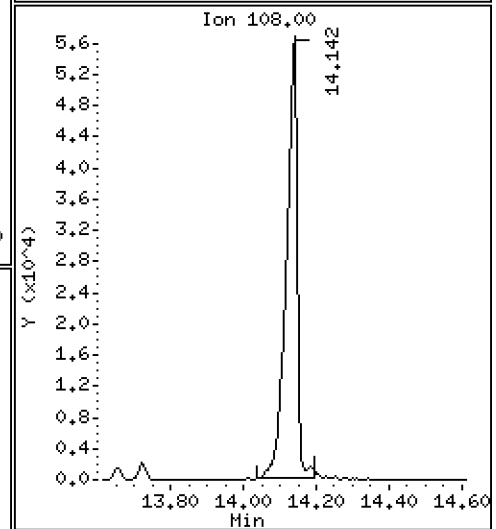
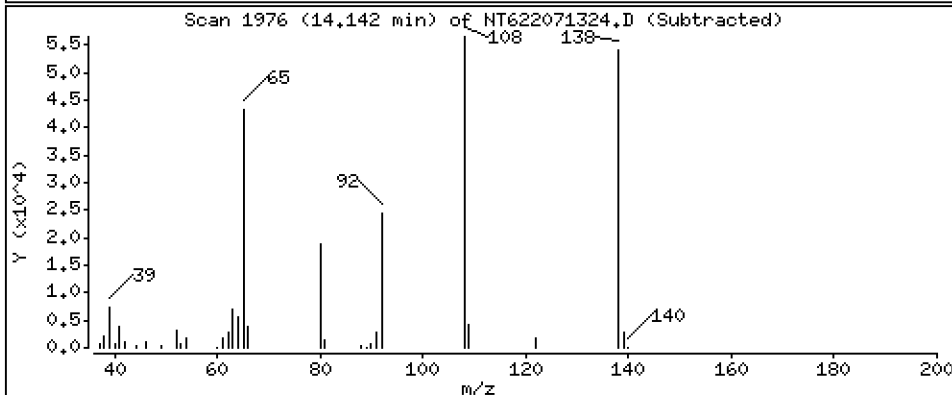
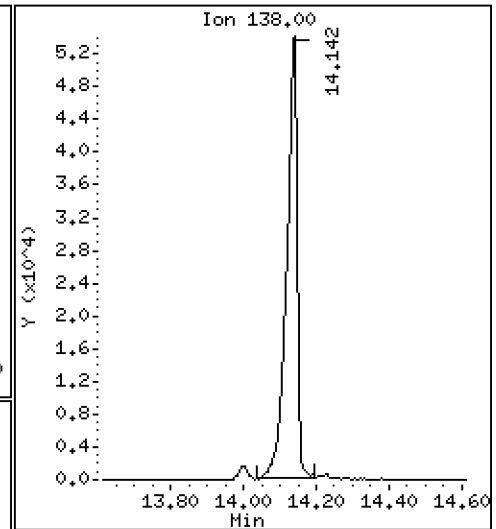
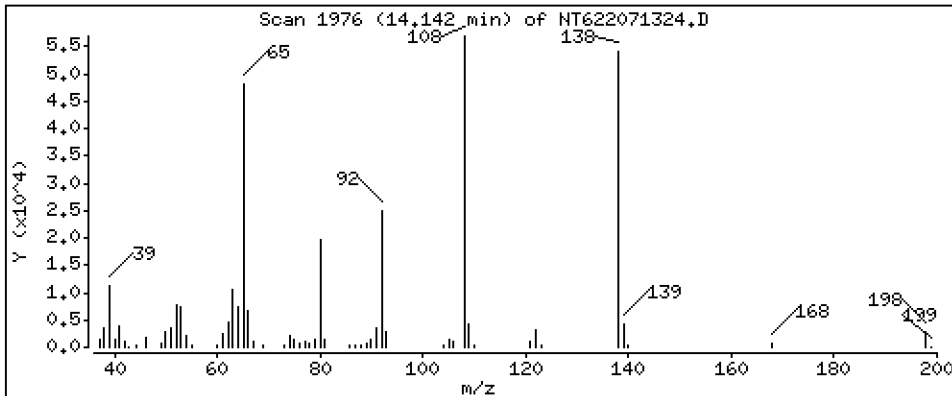
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

52 4-Nitroaniline

Concentration: 70.63 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

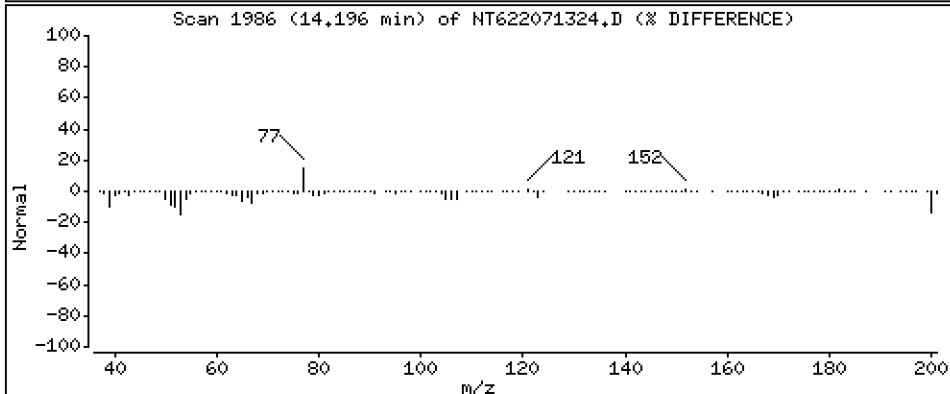
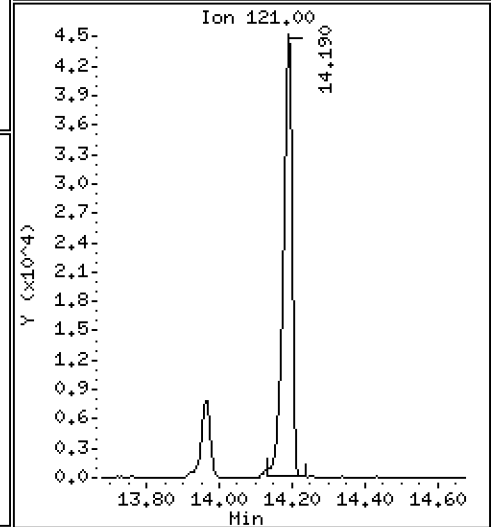
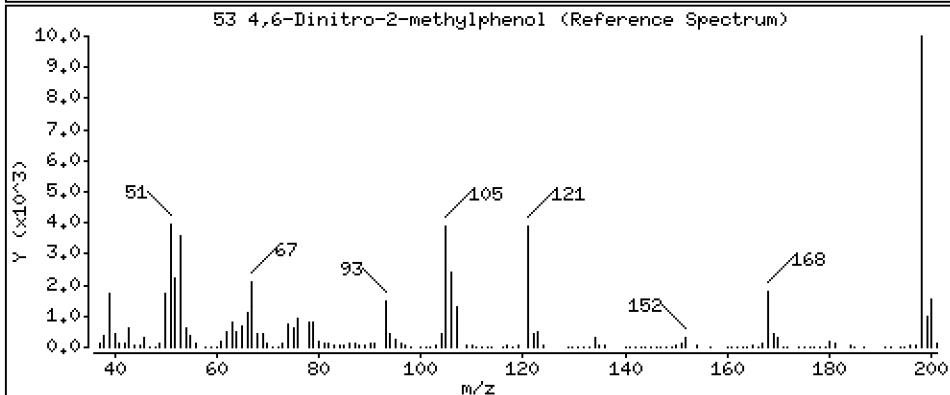
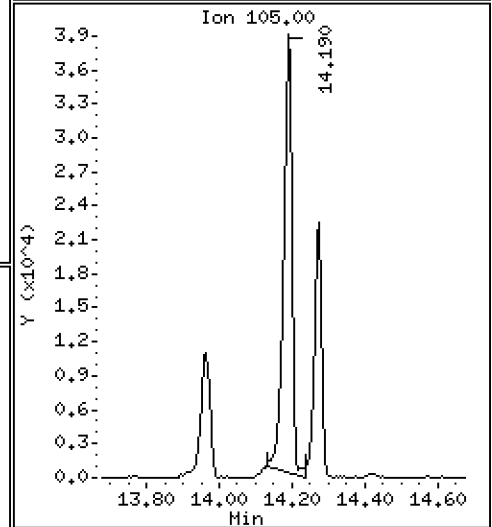
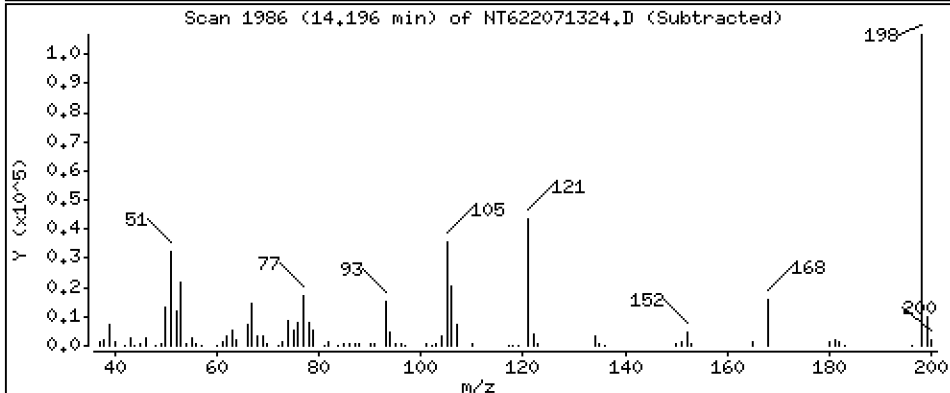
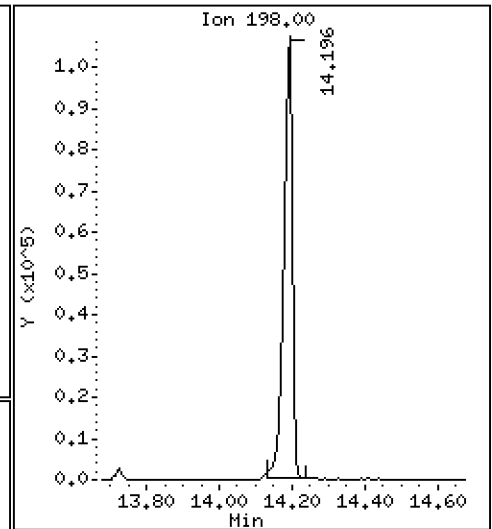
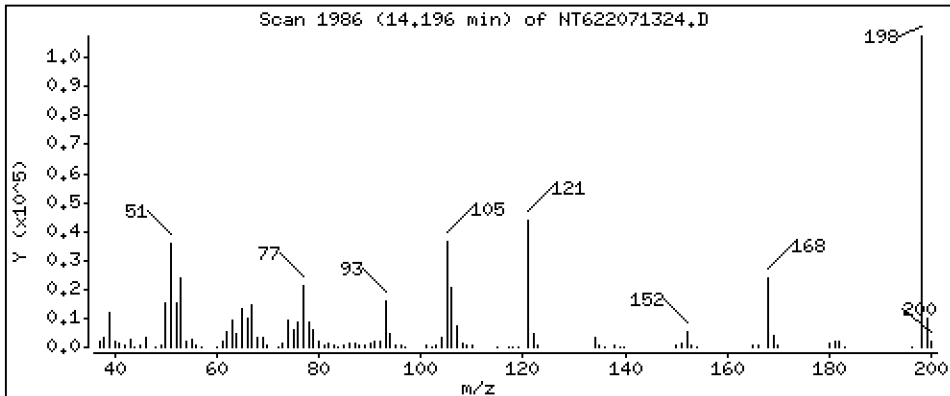
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

53 4,6-Dinitro-2-methylphenol

Concentration: 114.8 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

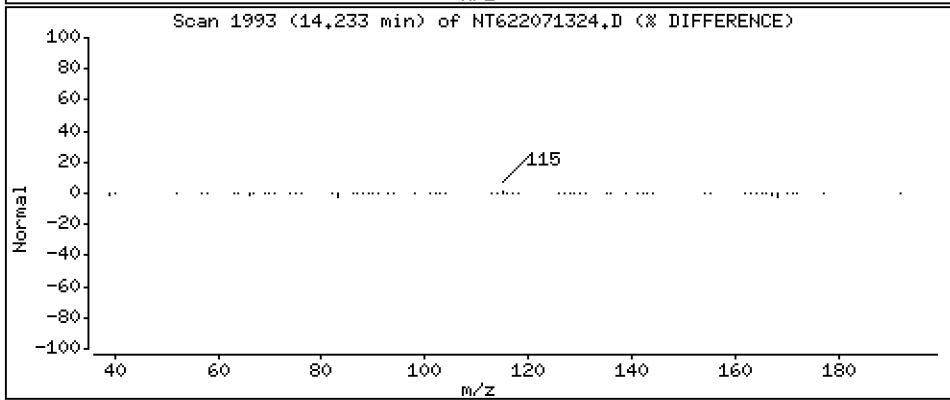
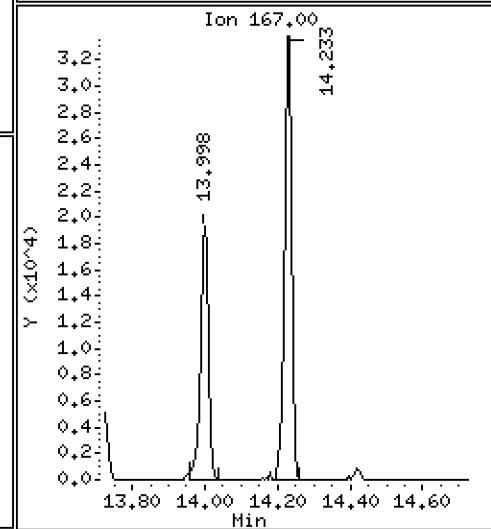
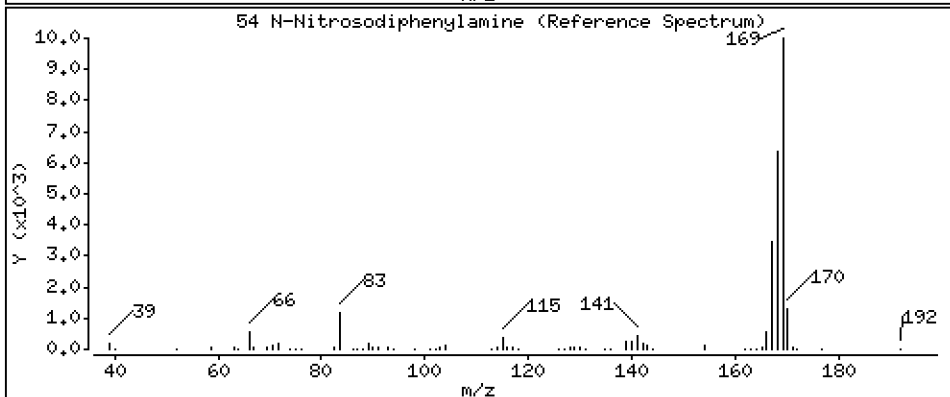
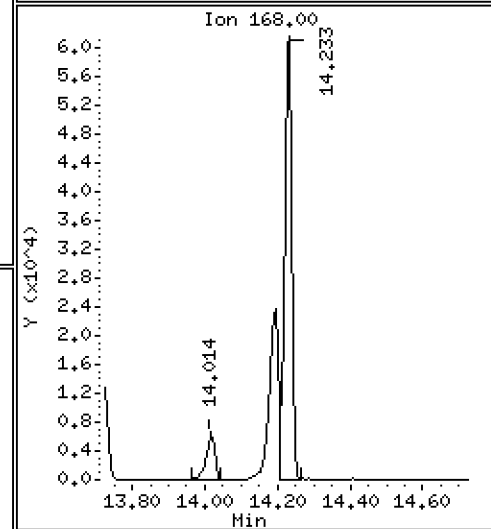
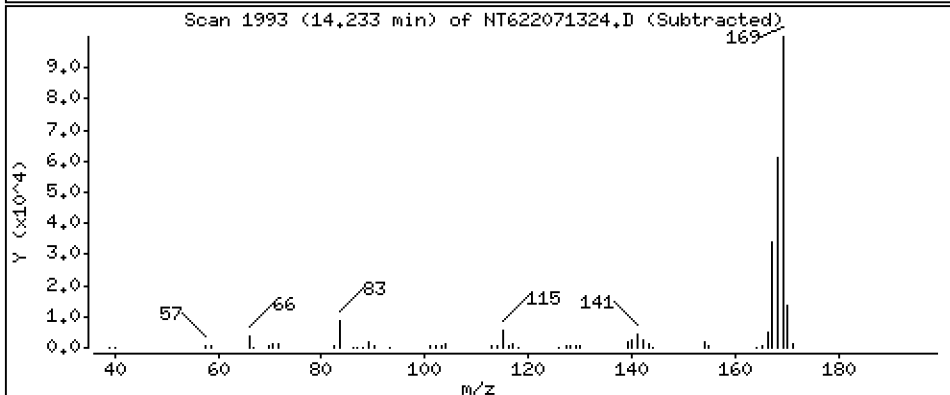
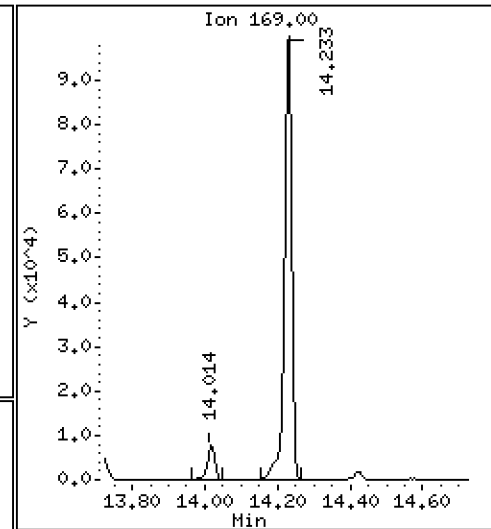
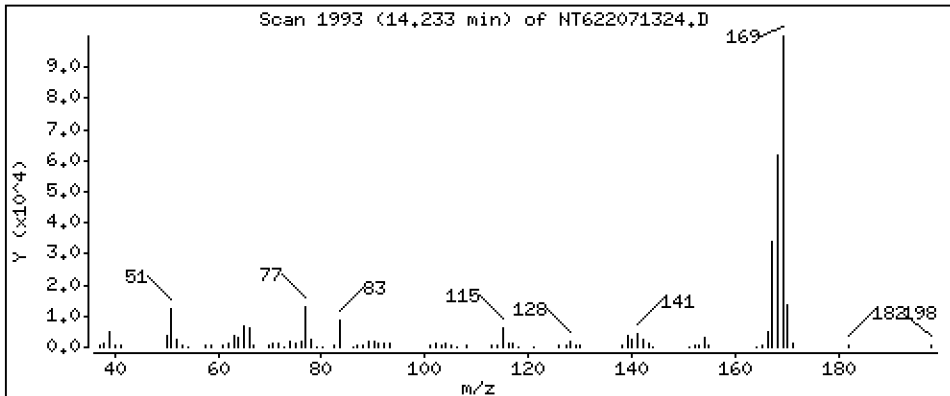
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

54 N-Nitrosodiphenylamine

Concentration: 23.44 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

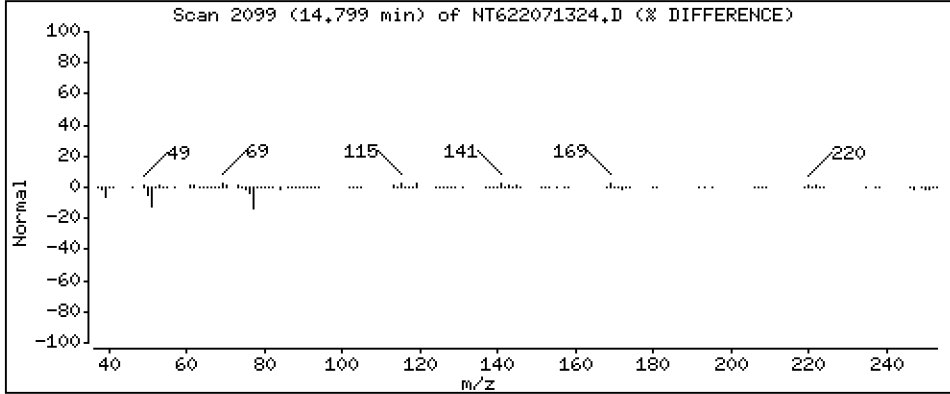
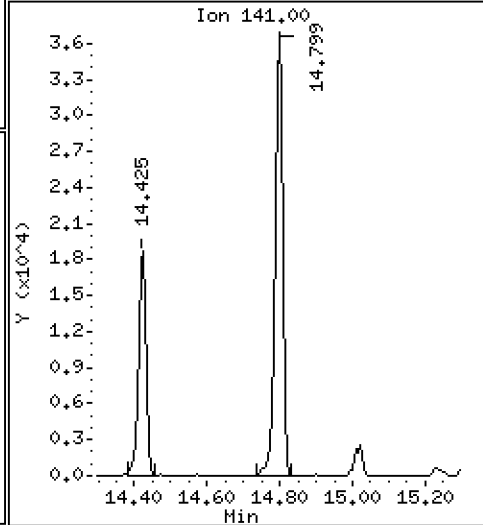
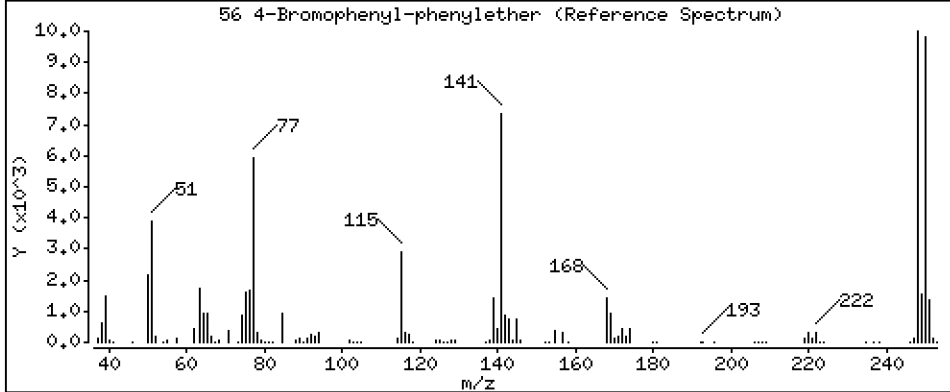
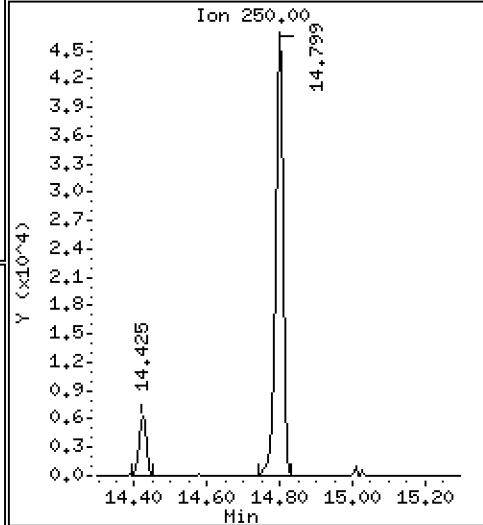
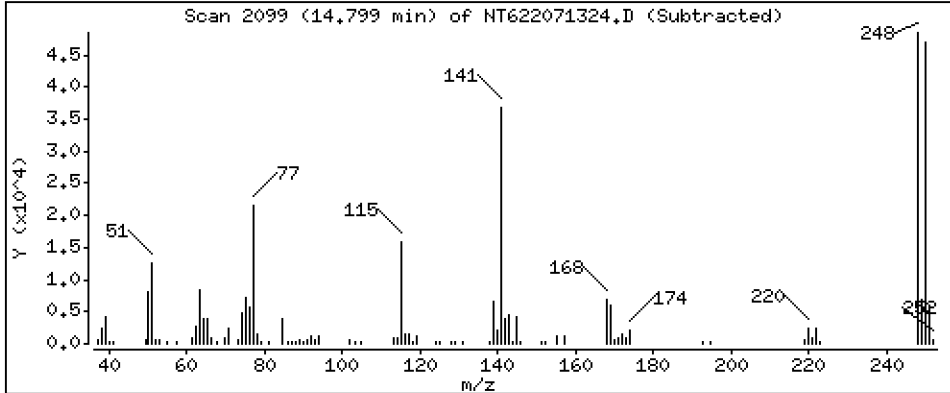
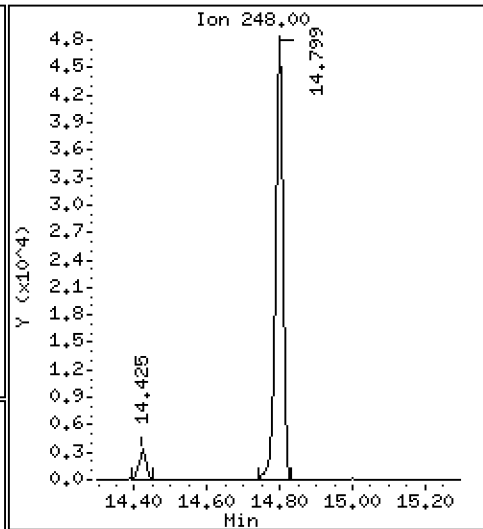
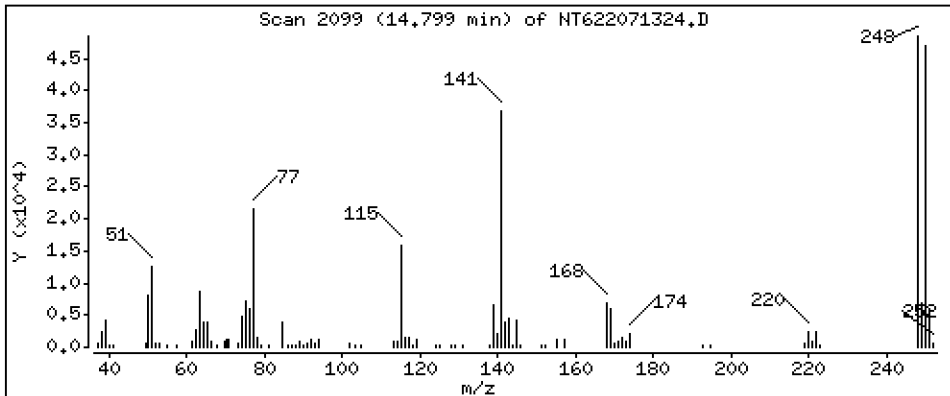
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

56 4-Bromophenyl-phenylether

Concentration: 26.37 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

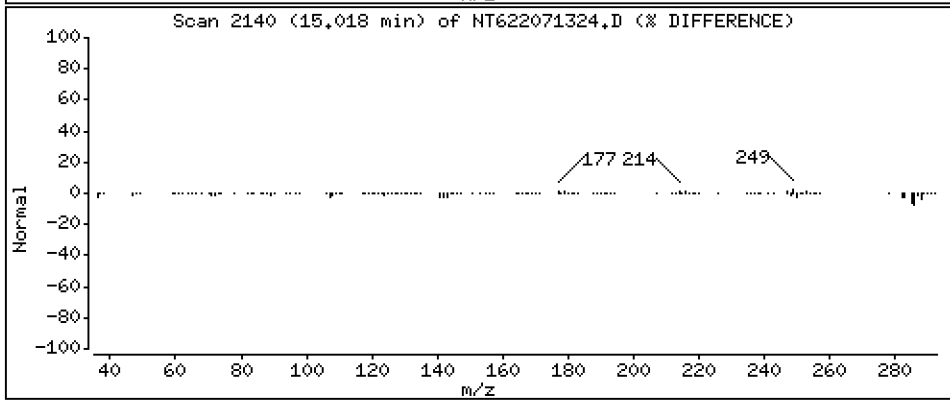
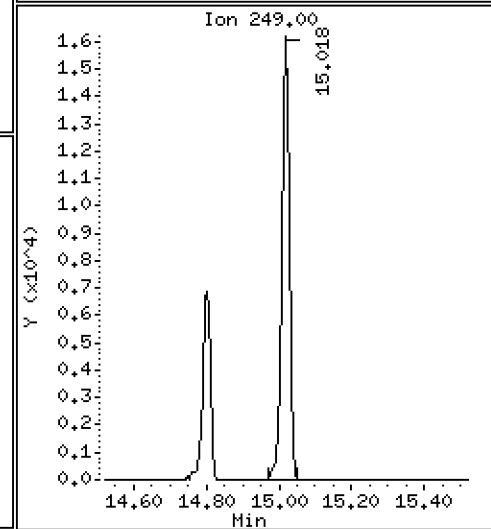
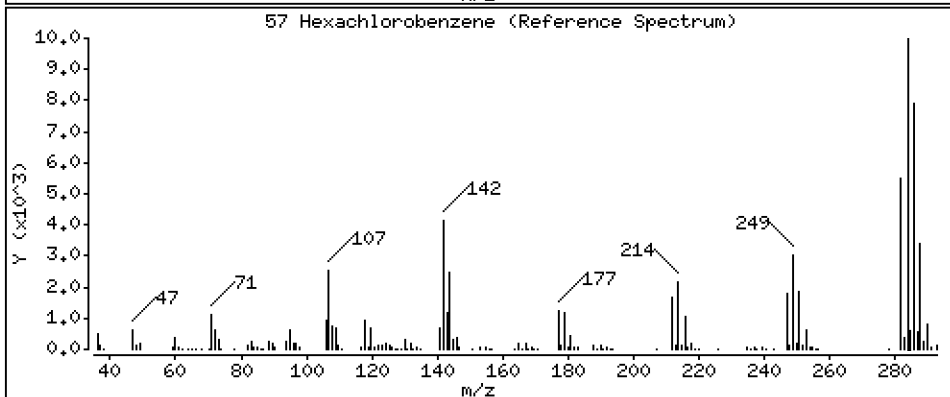
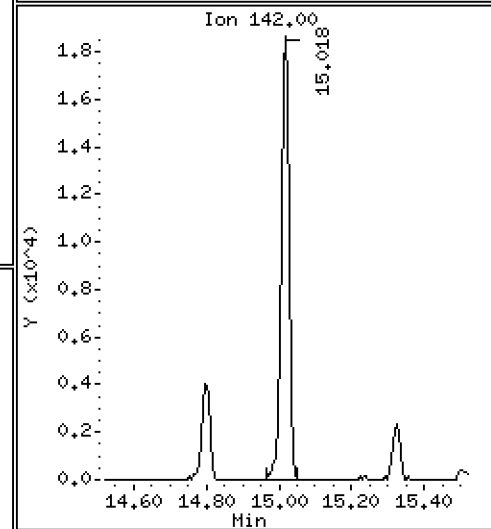
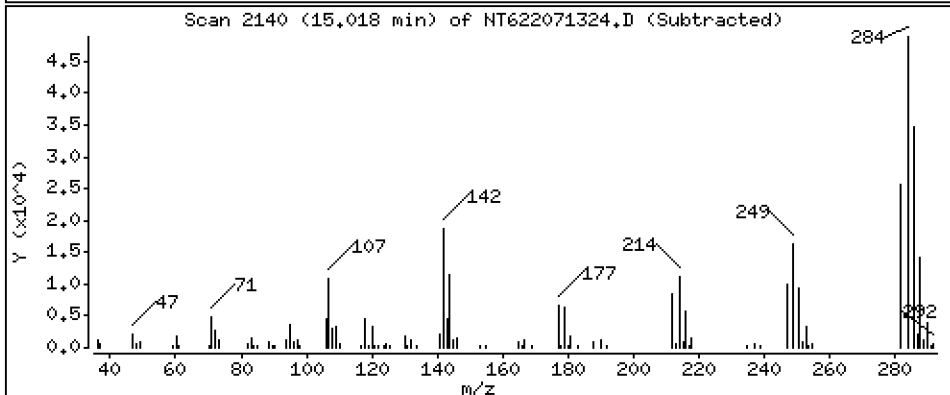
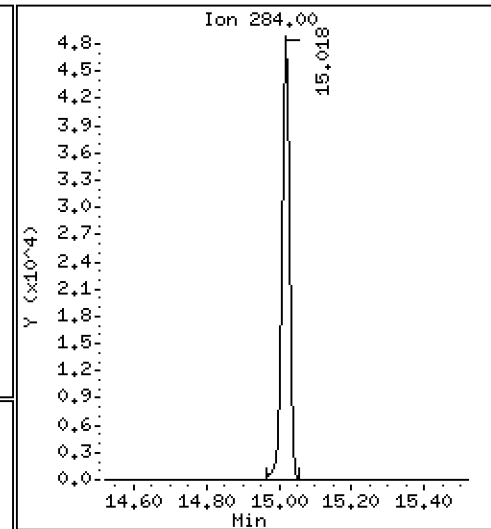
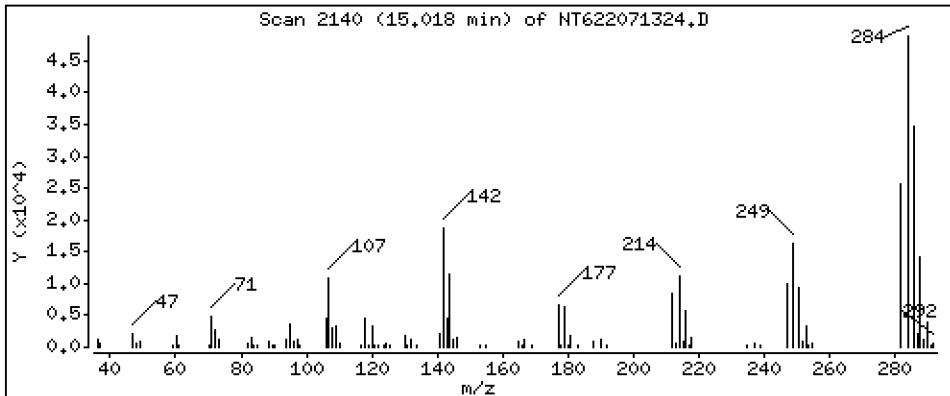
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

57 Hexachlorobenzene

Concentration: 25.02 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

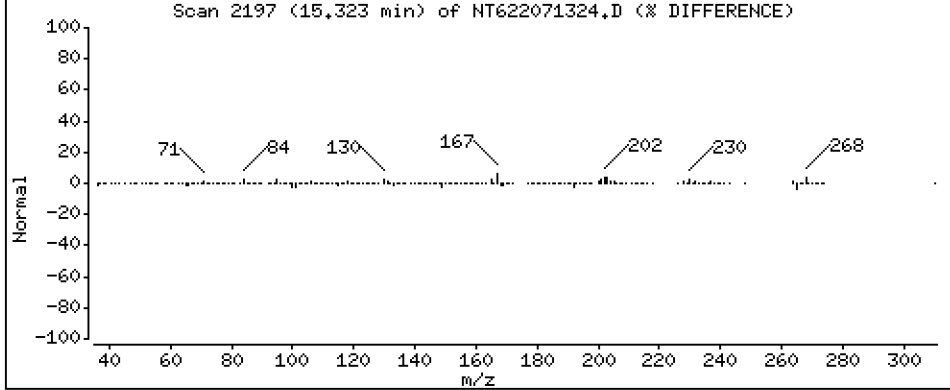
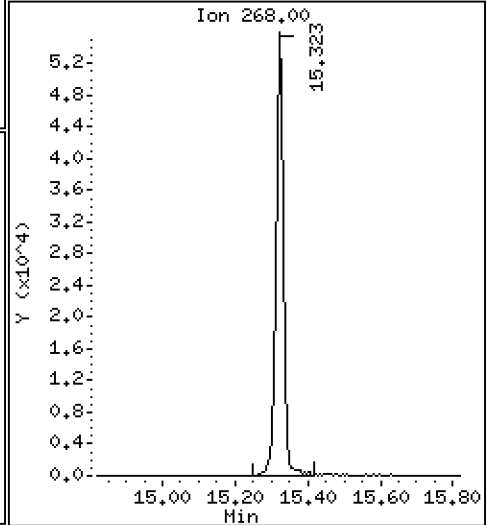
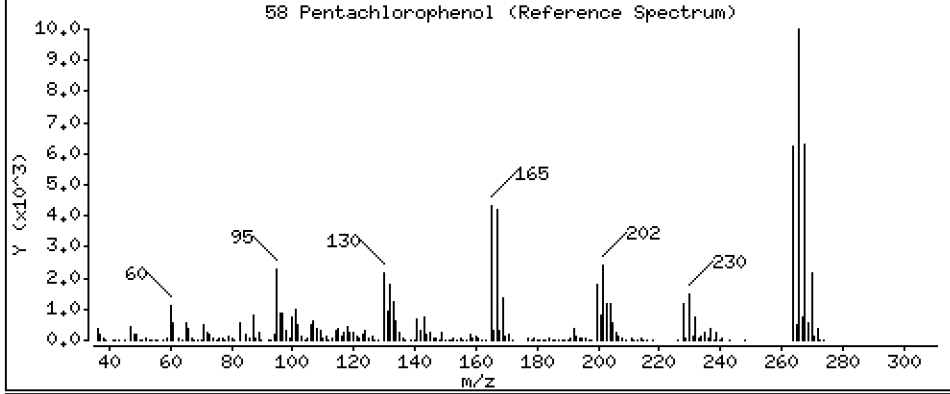
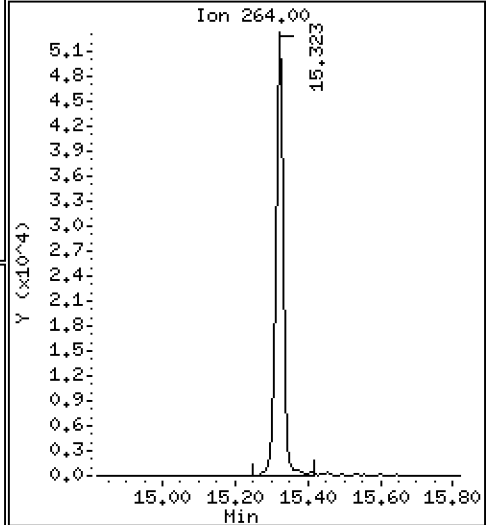
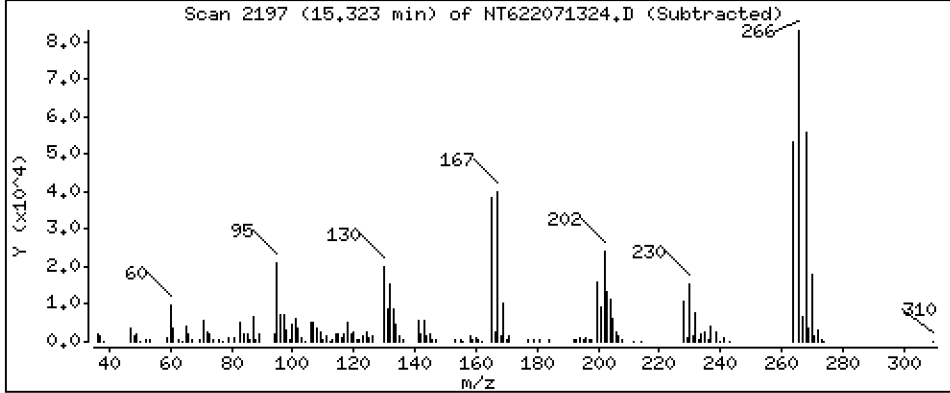
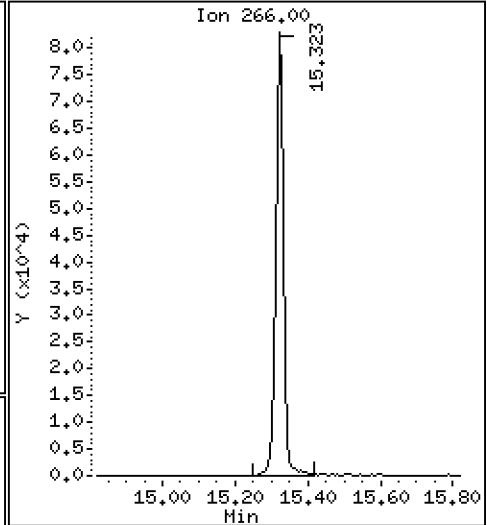
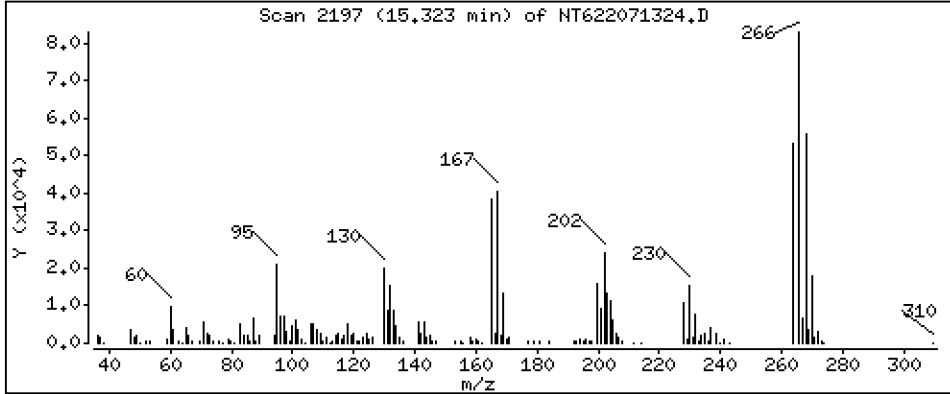
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

58 Pentachlorophenol

Concentration: 64.62 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

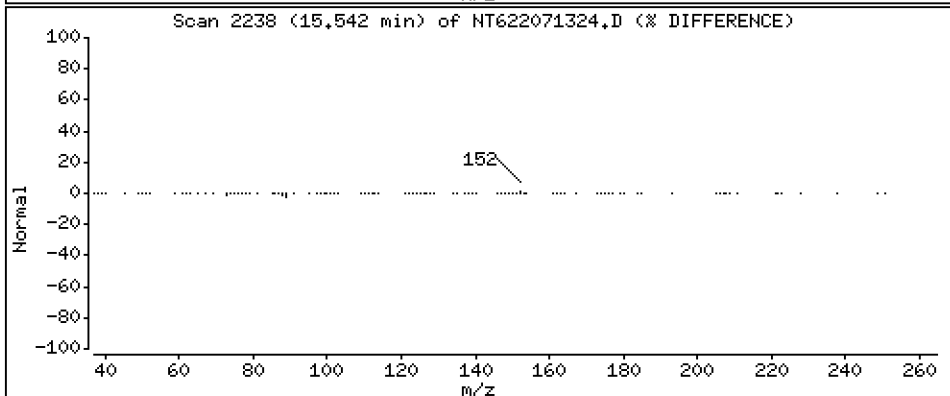
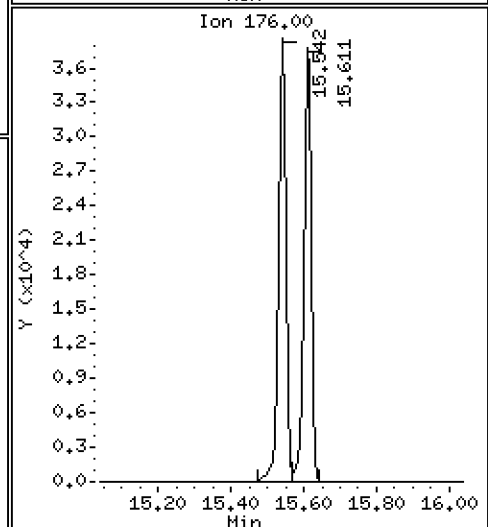
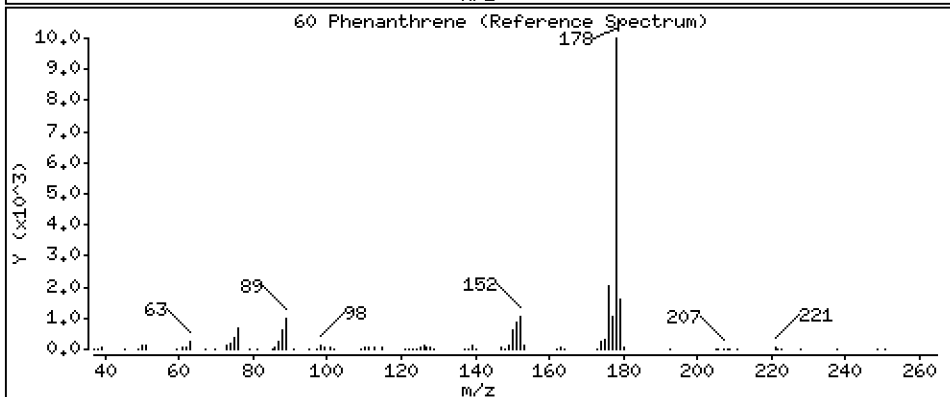
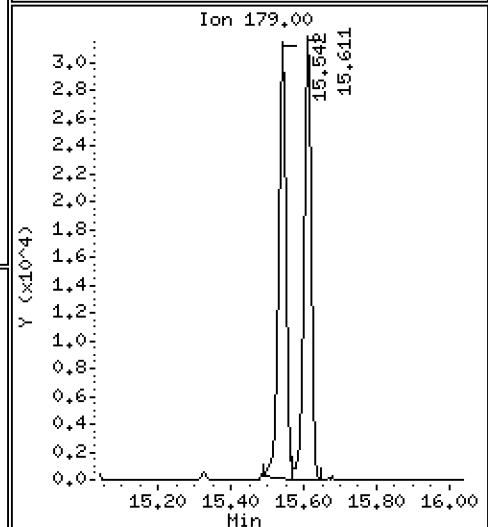
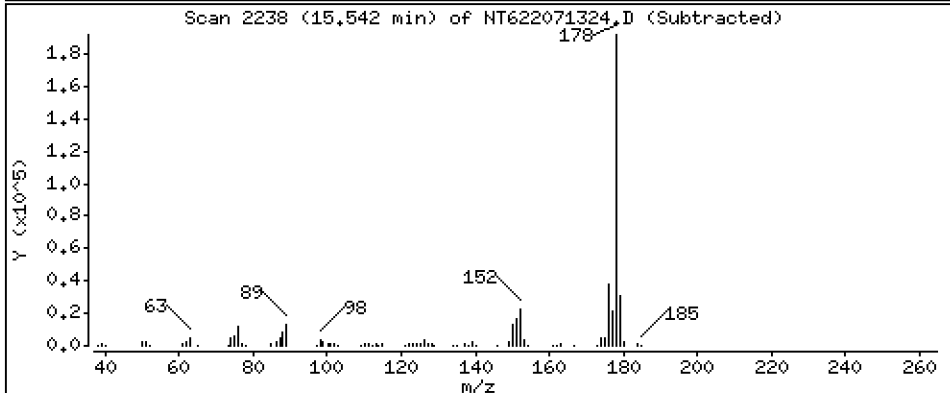
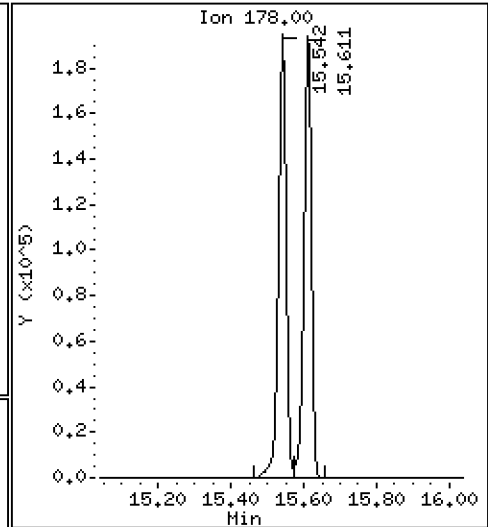
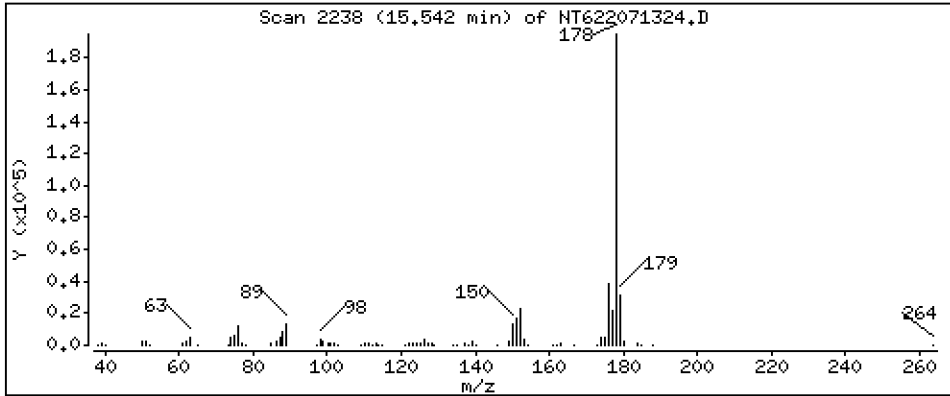
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

60 Phenanthrene

Concentration: 25.23 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

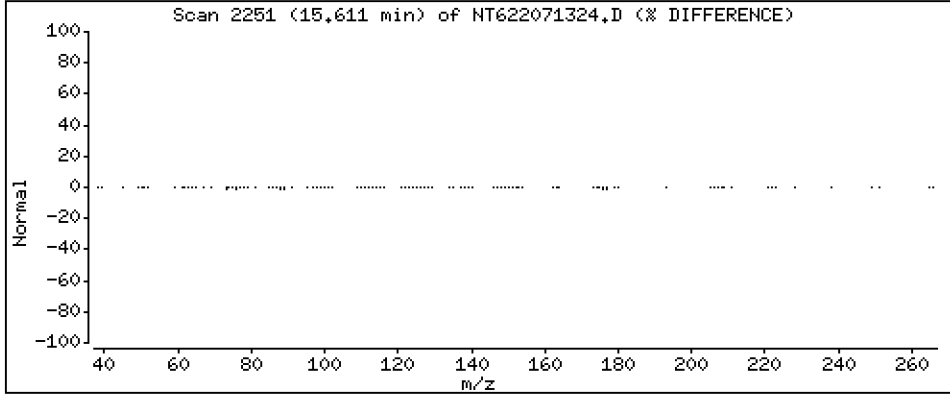
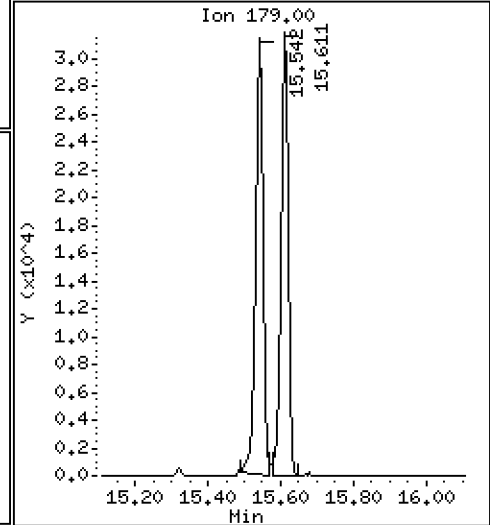
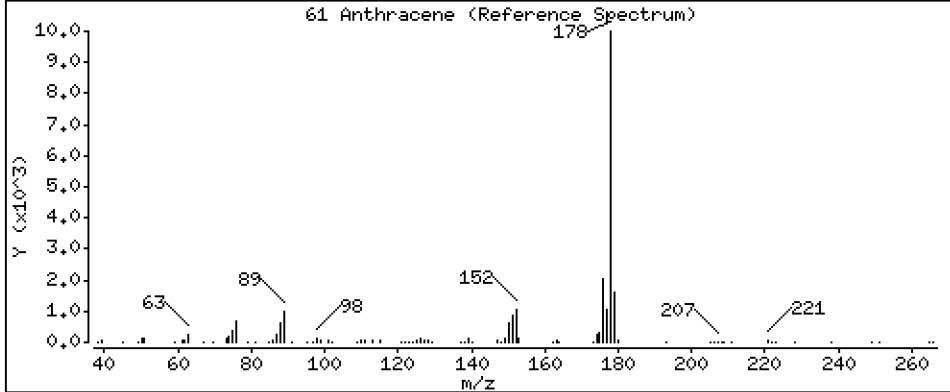
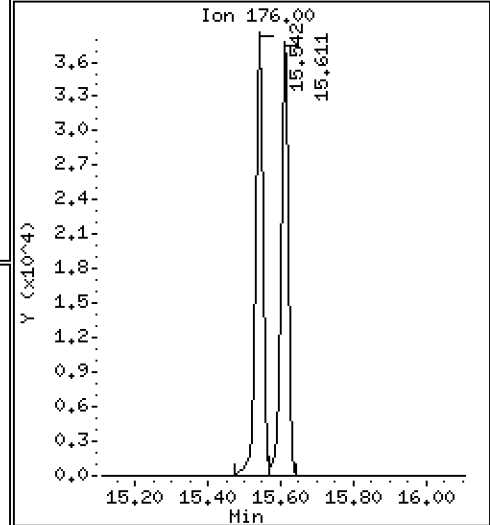
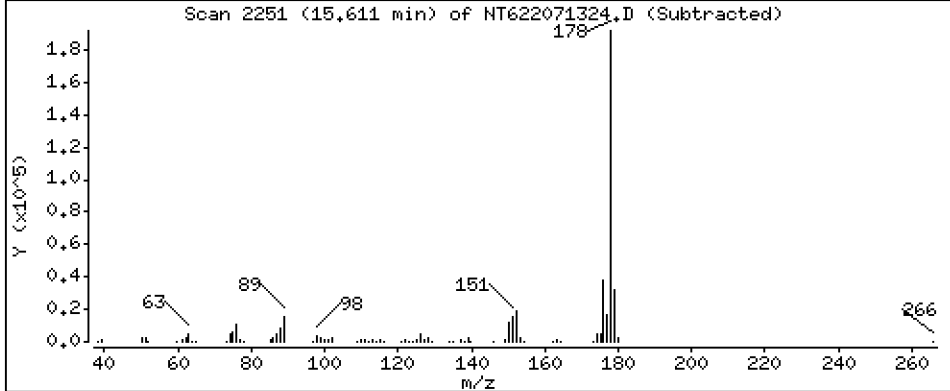
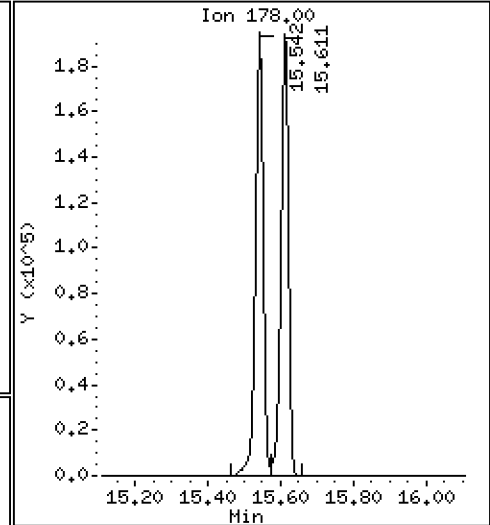
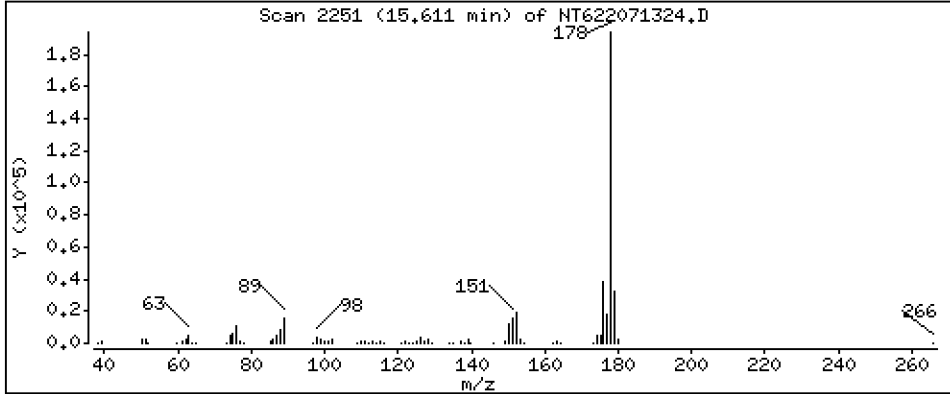
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

61 Anthracene

Concentration: 24.41 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

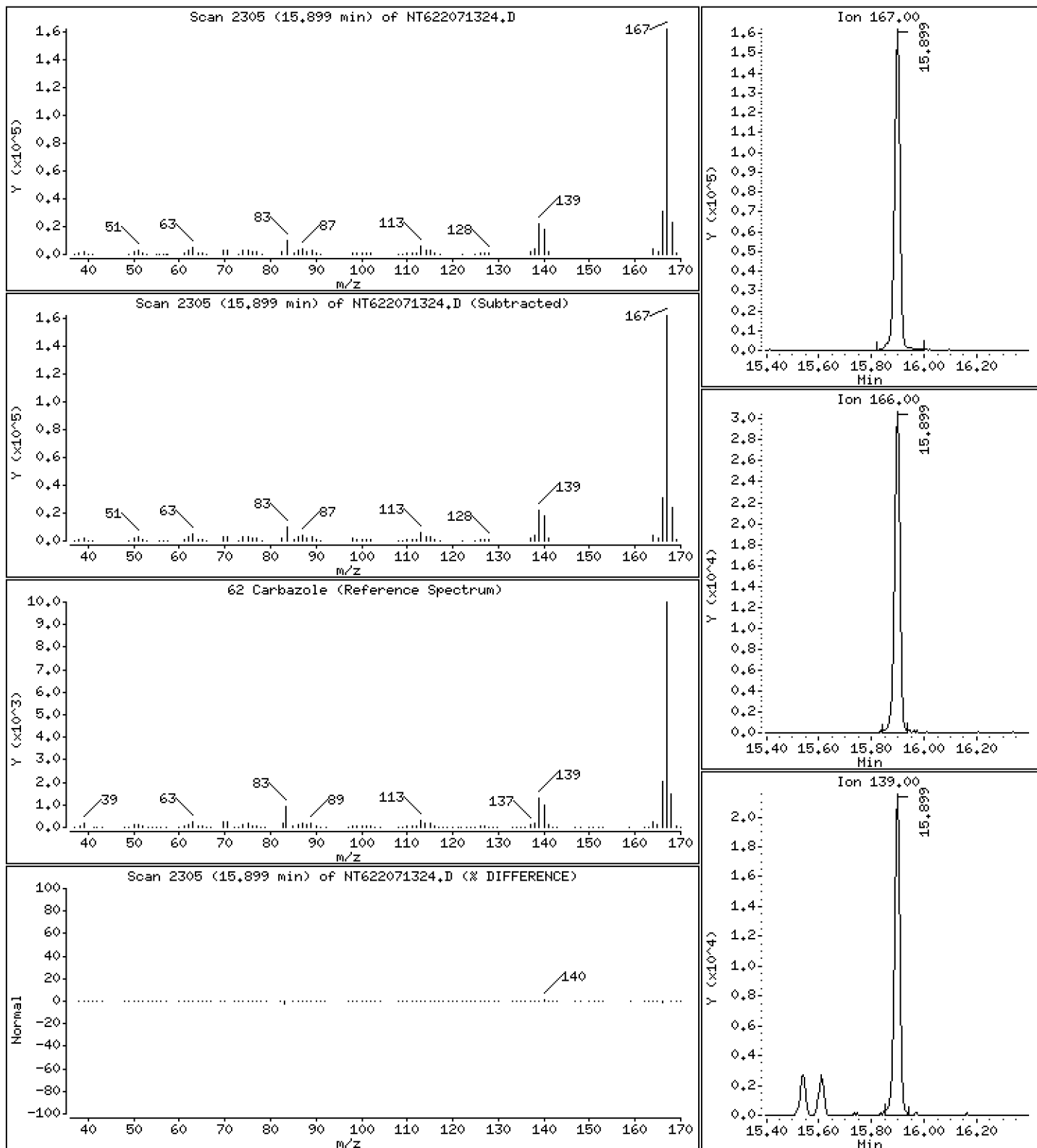
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

62 Carbazole

Concentration: 24.36 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

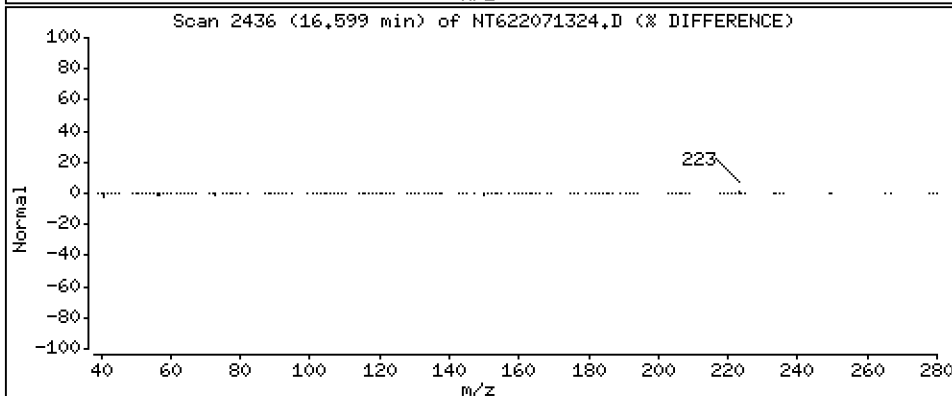
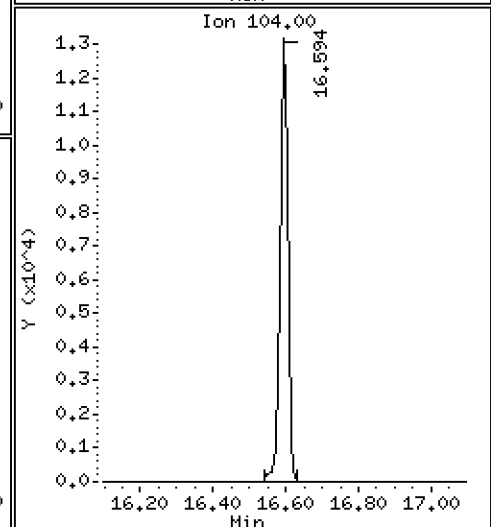
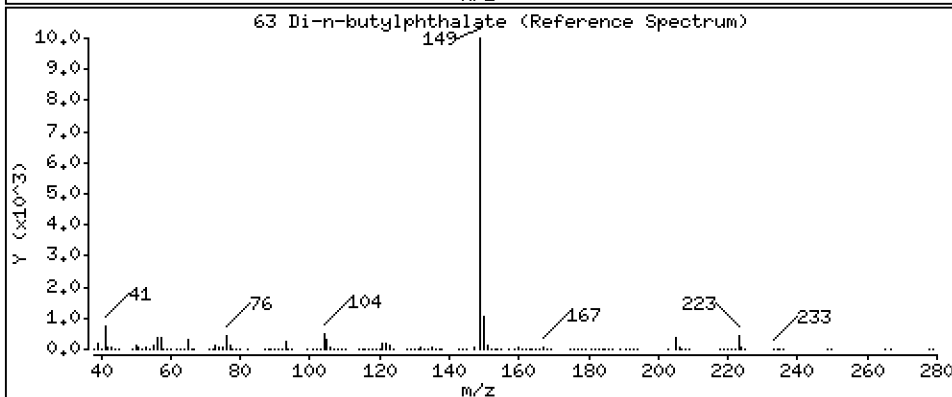
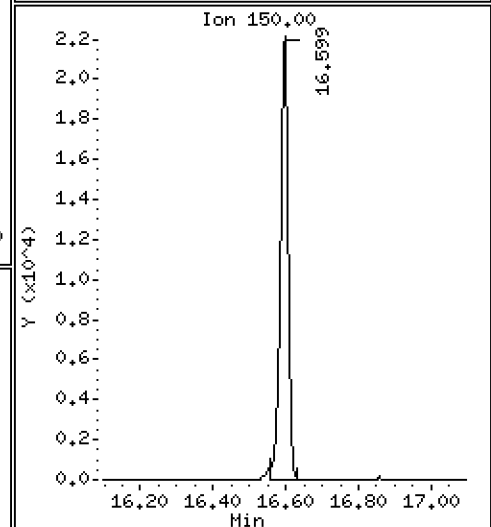
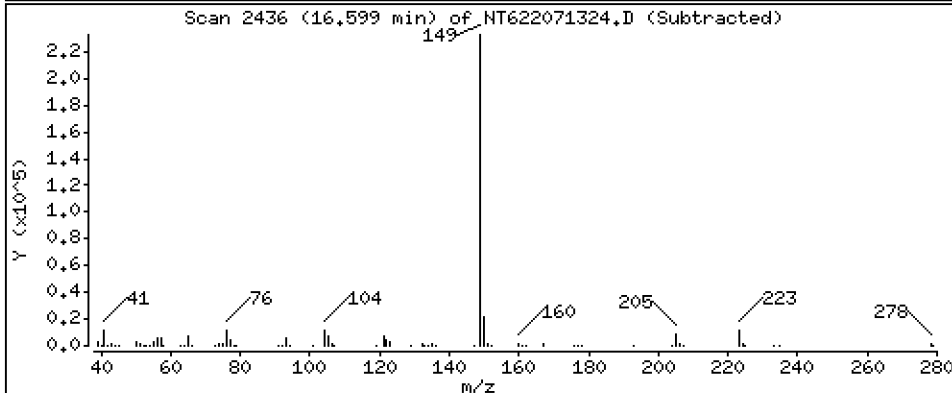
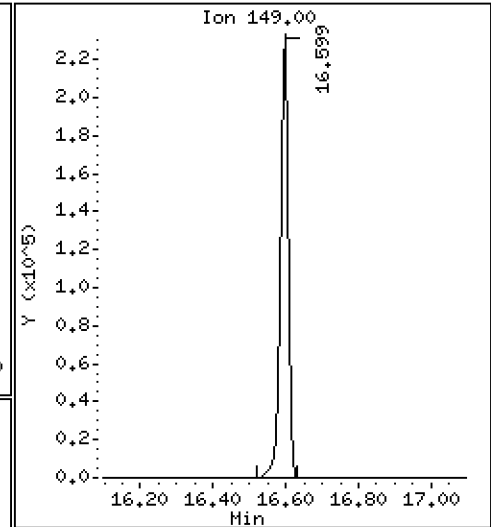
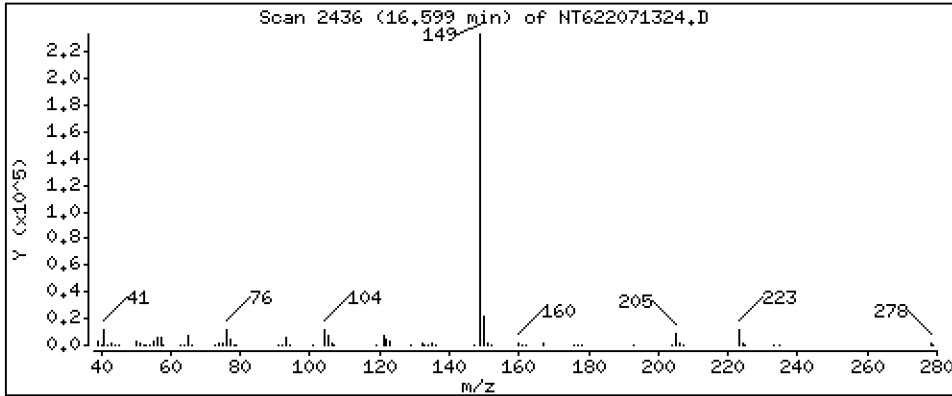
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

63 Di-n-butylphthalate

Concentration: 28.33 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

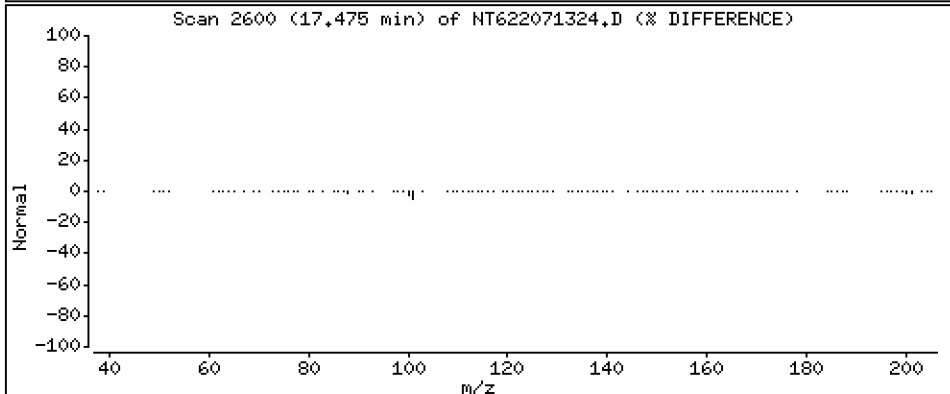
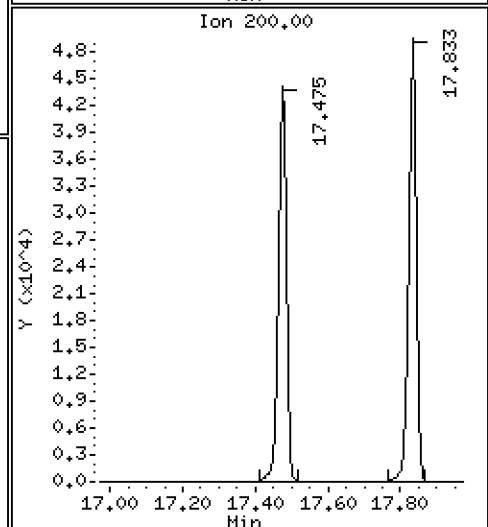
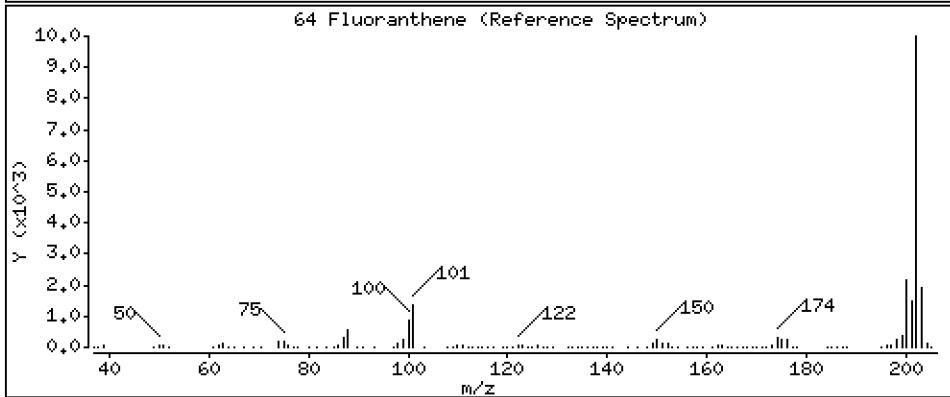
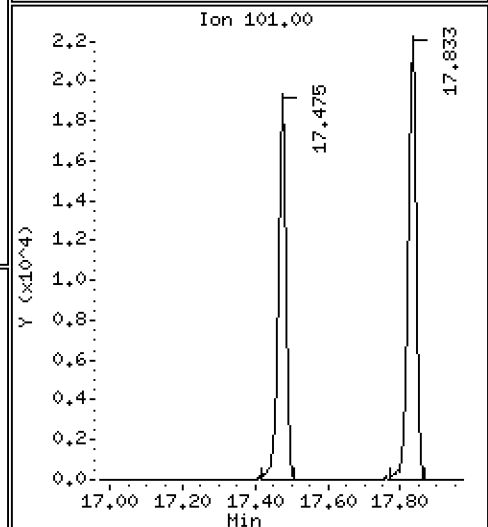
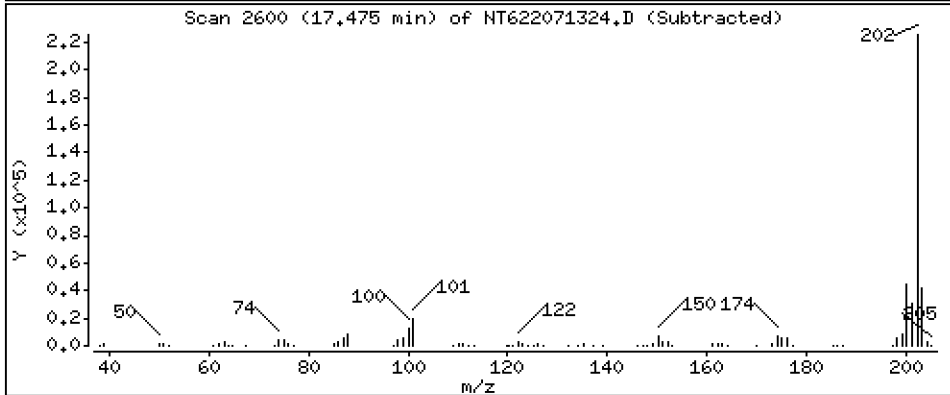
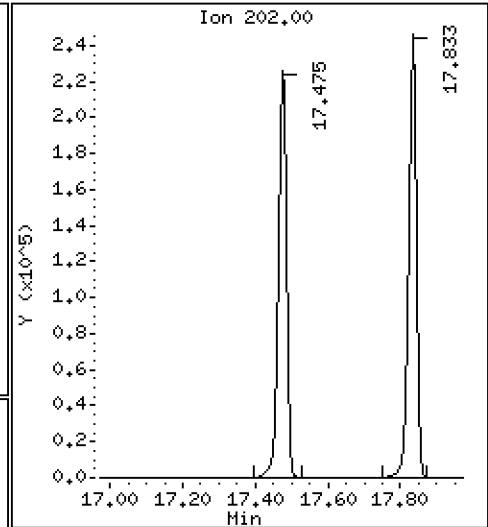
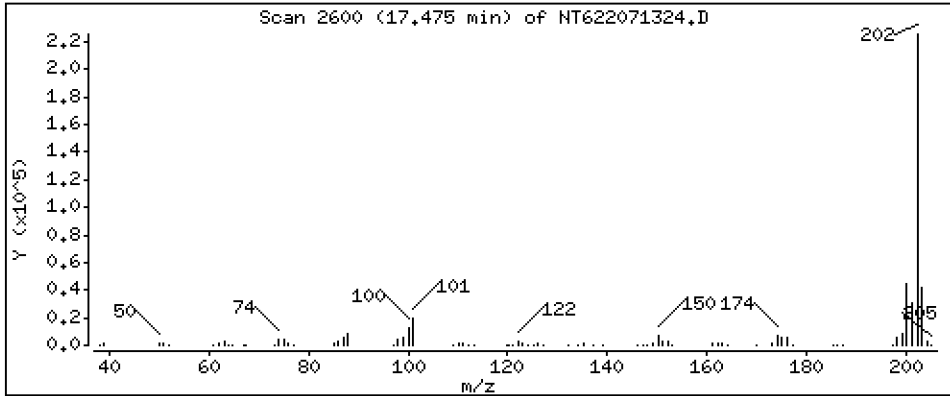
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

64 Fluoranthene

Concentration: 27.68 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

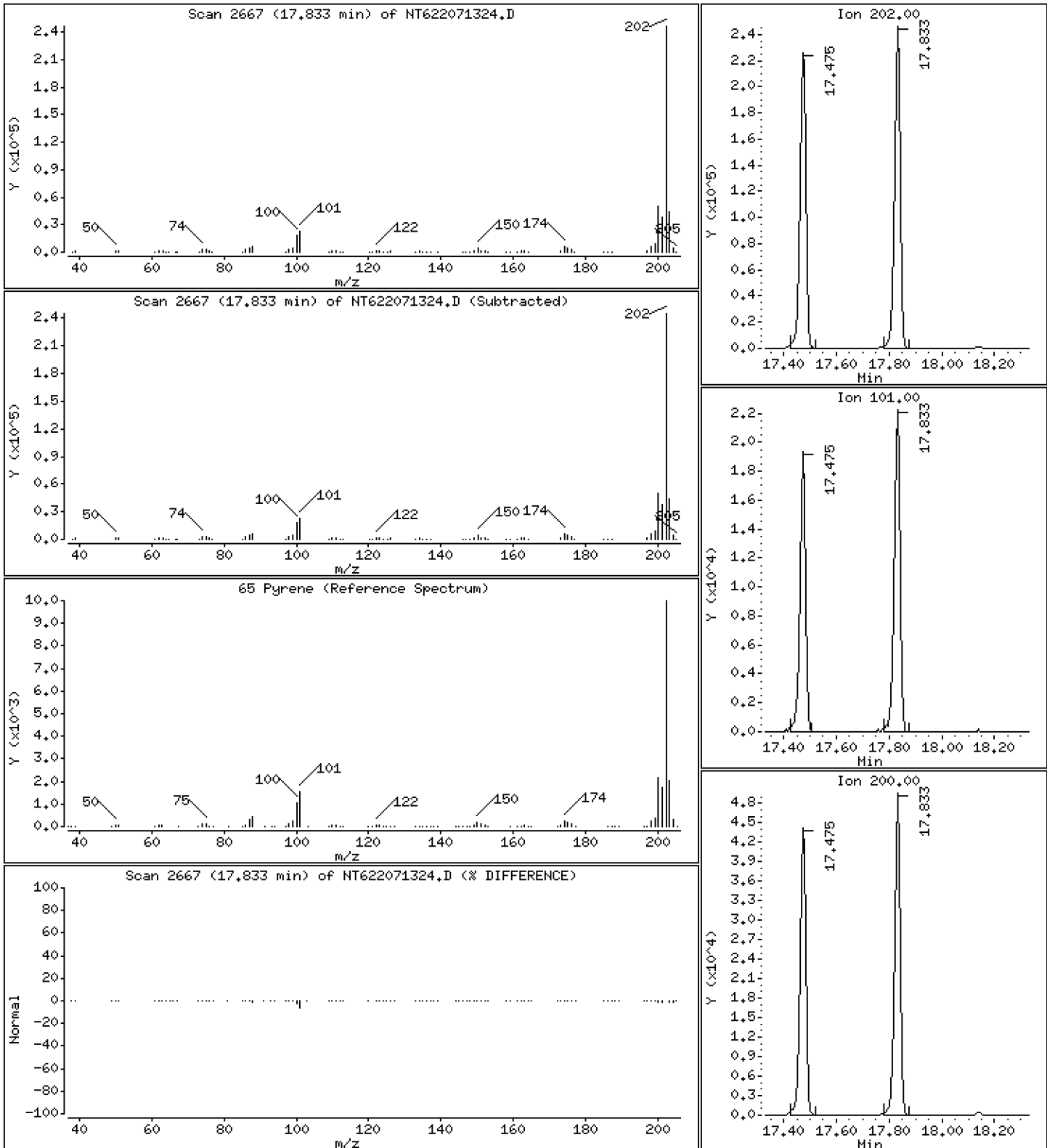
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

65 Pyrene

Concentration: 23.44 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

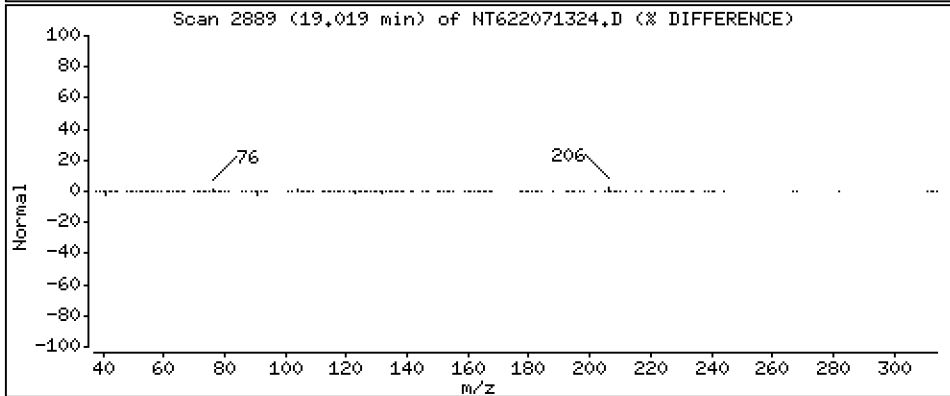
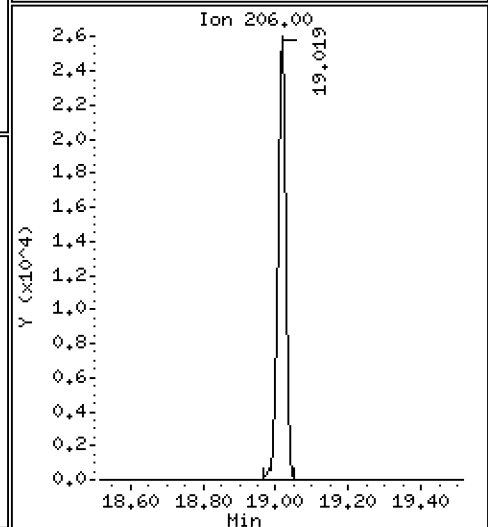
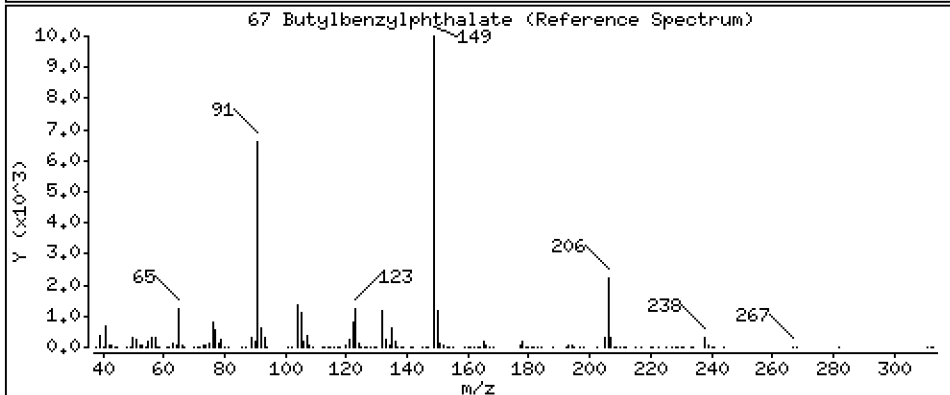
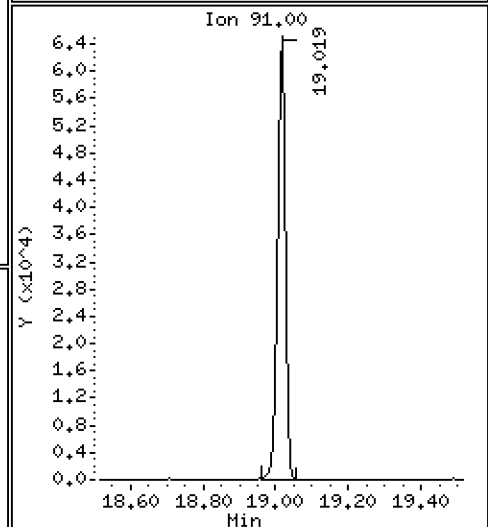
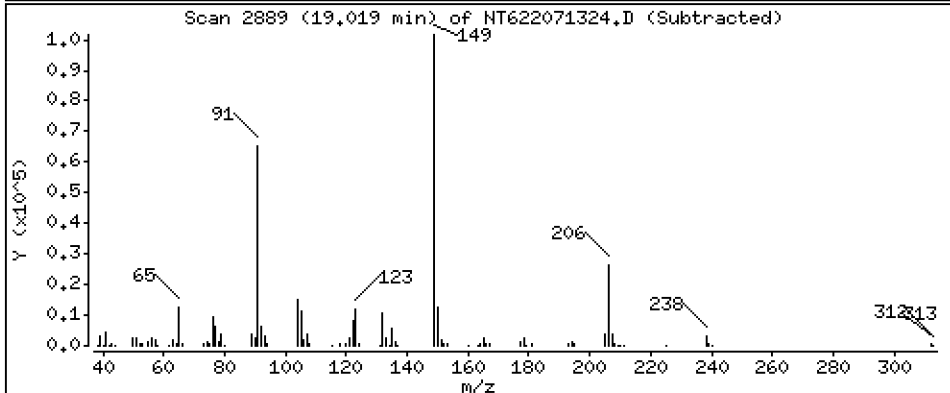
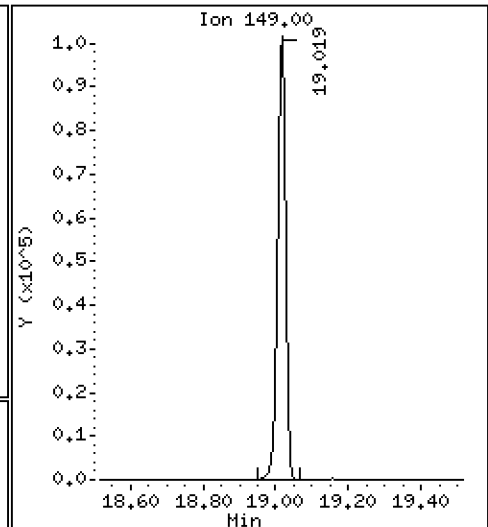
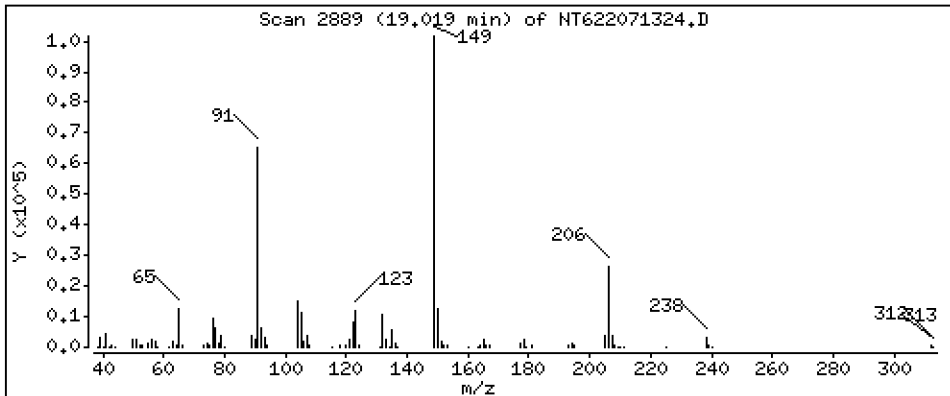
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

67 Butylbenzylphthalate

Concentration: 26.06 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

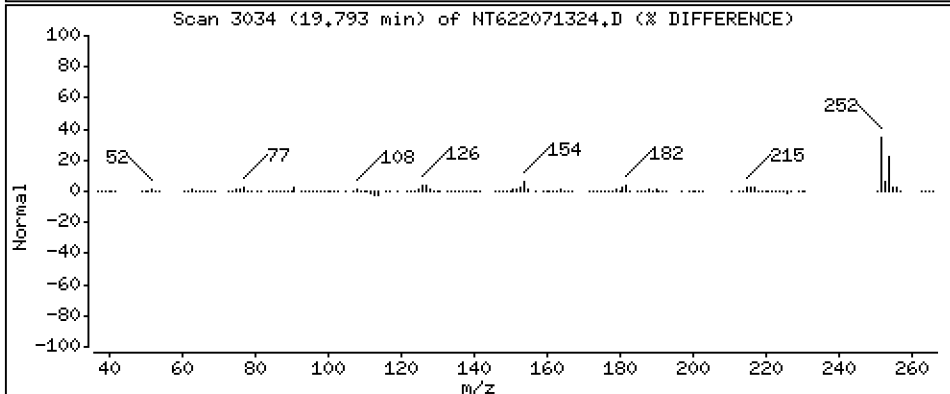
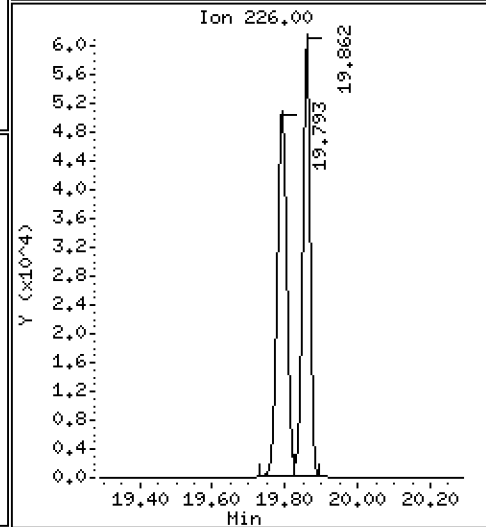
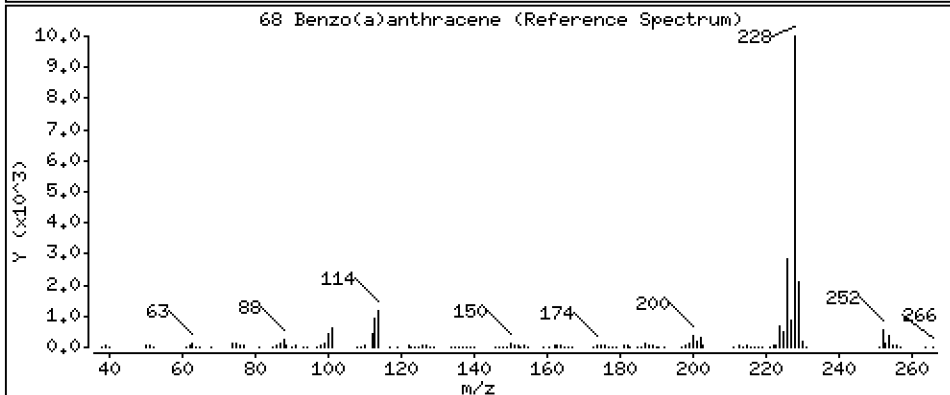
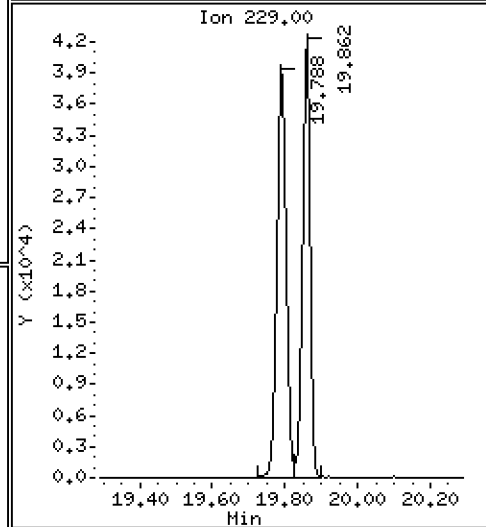
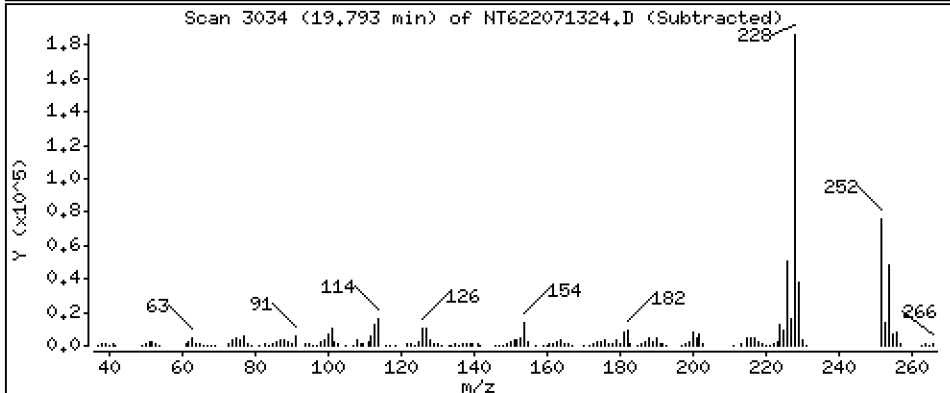
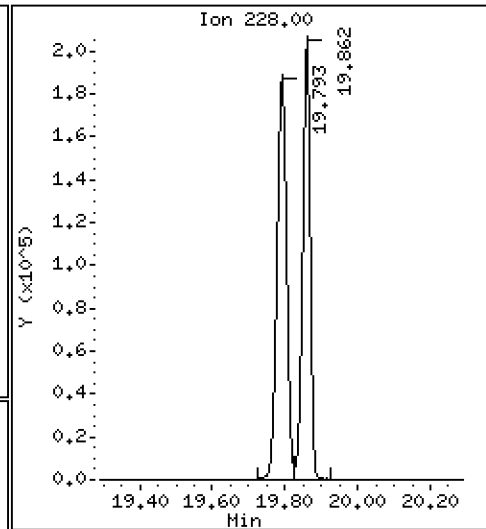
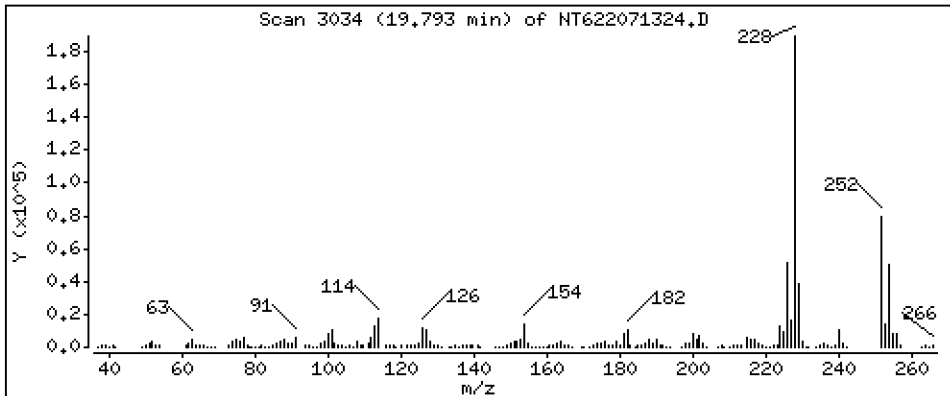
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

68 Benzo(a)anthracene

Concentration: 25.46 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

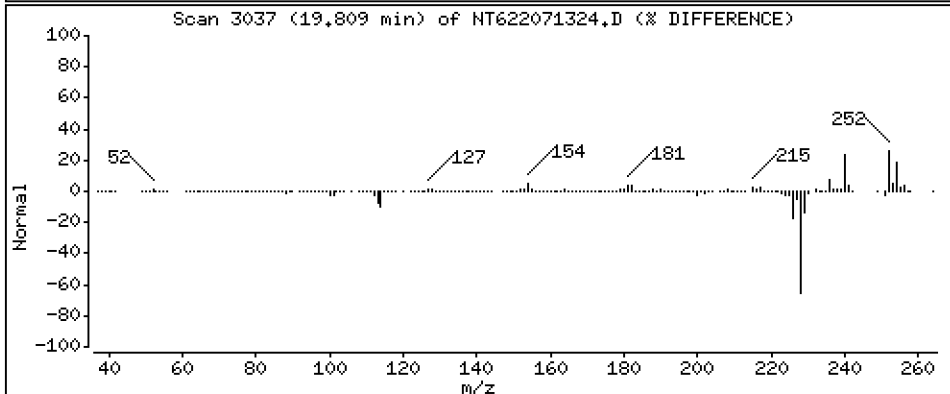
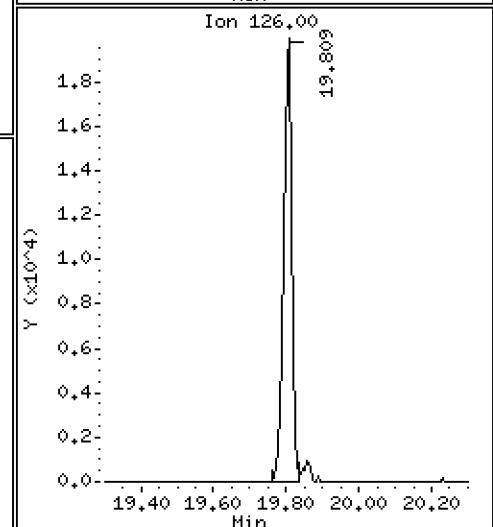
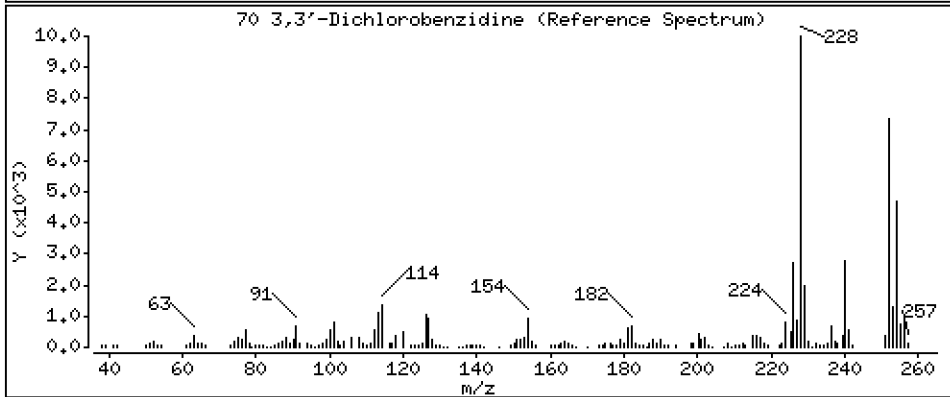
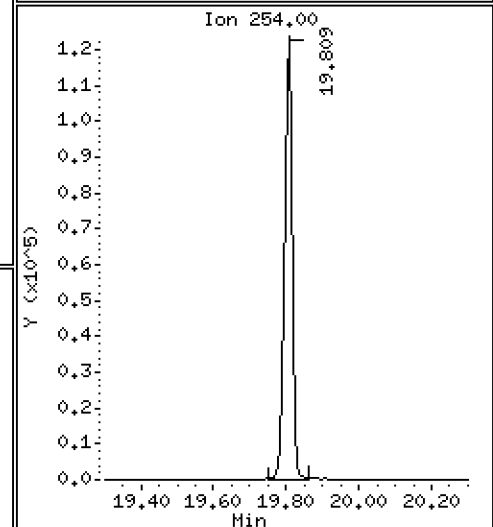
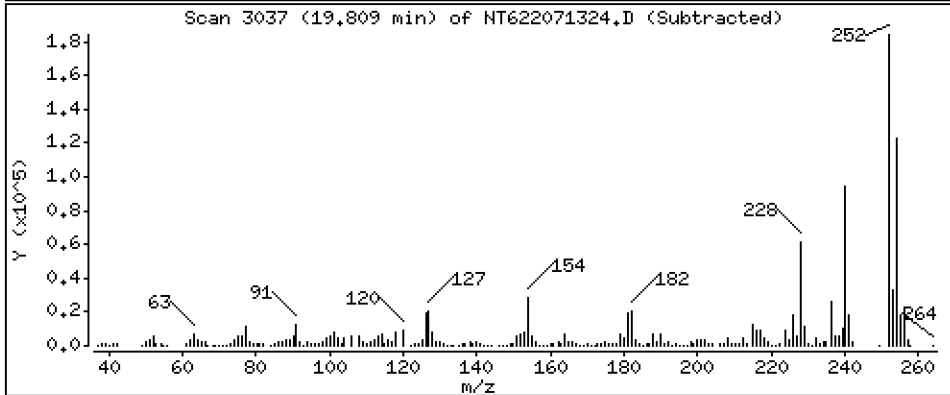
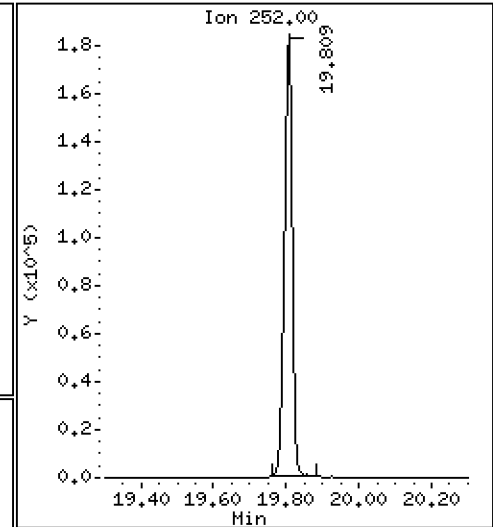
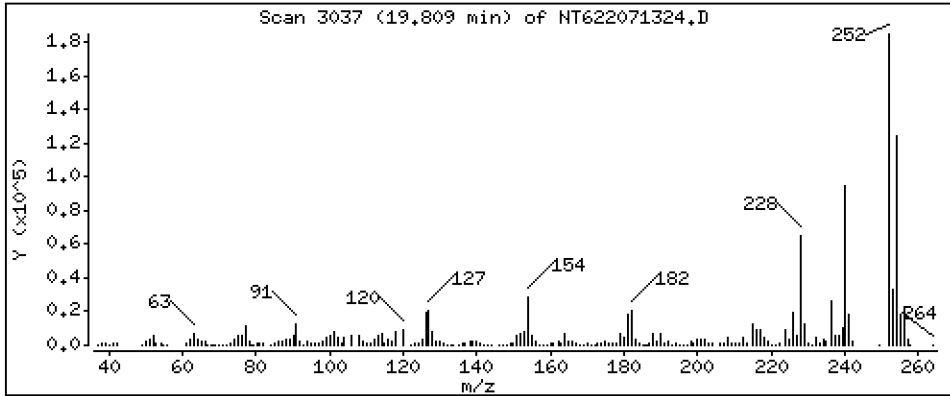
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

70 3,3'-Dichlorobenzidine

Concentration: 67,49 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

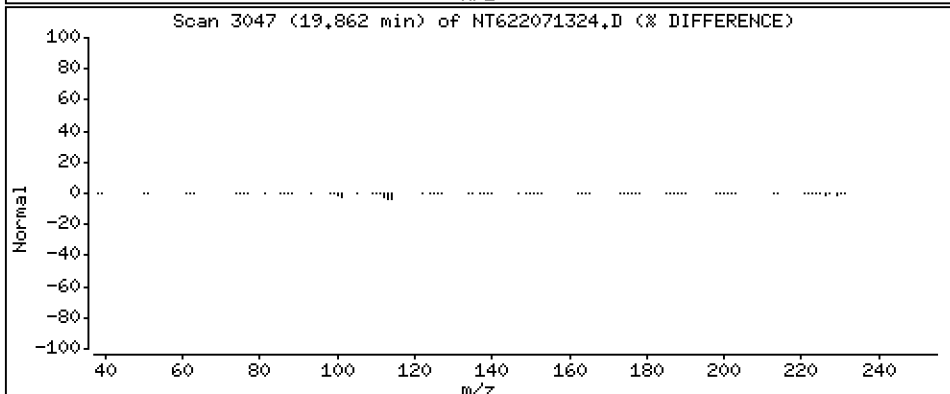
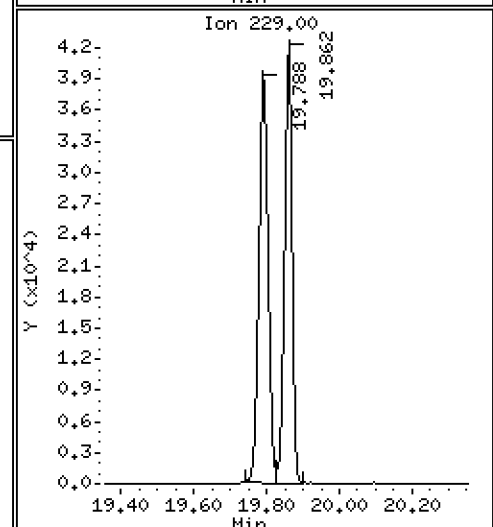
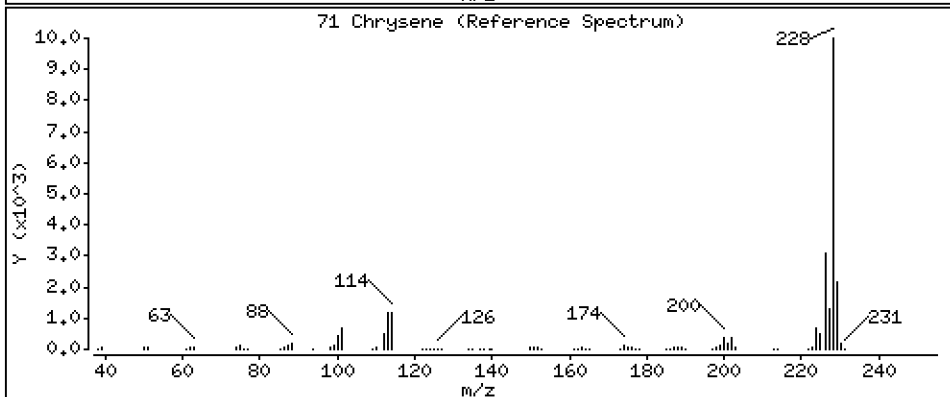
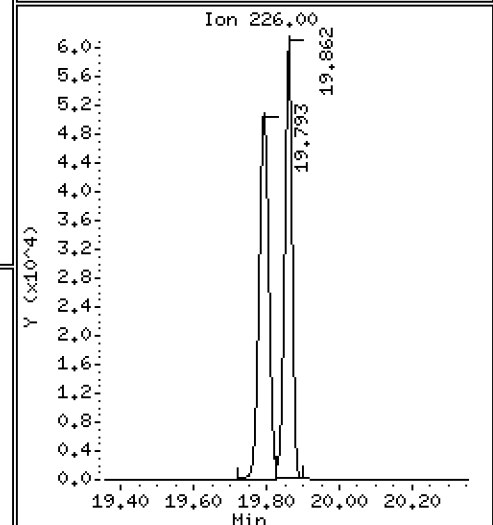
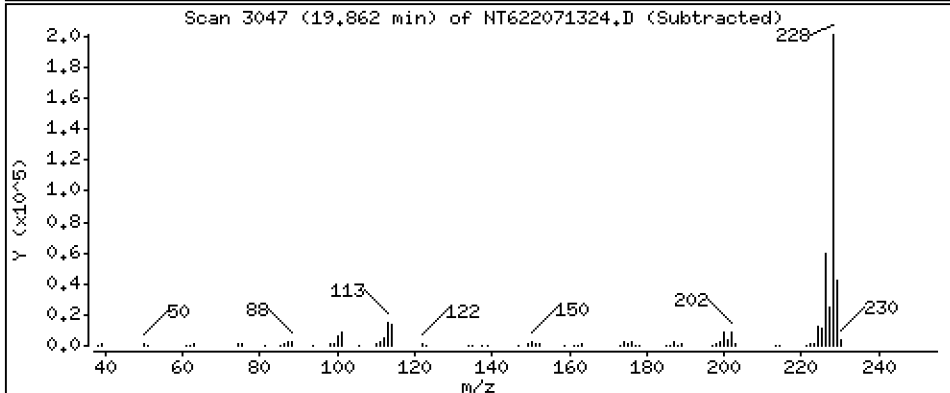
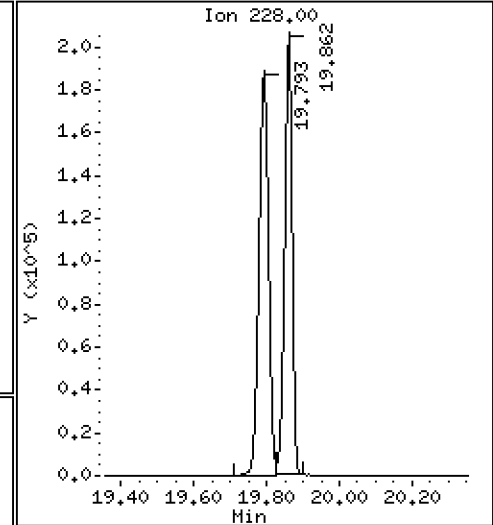
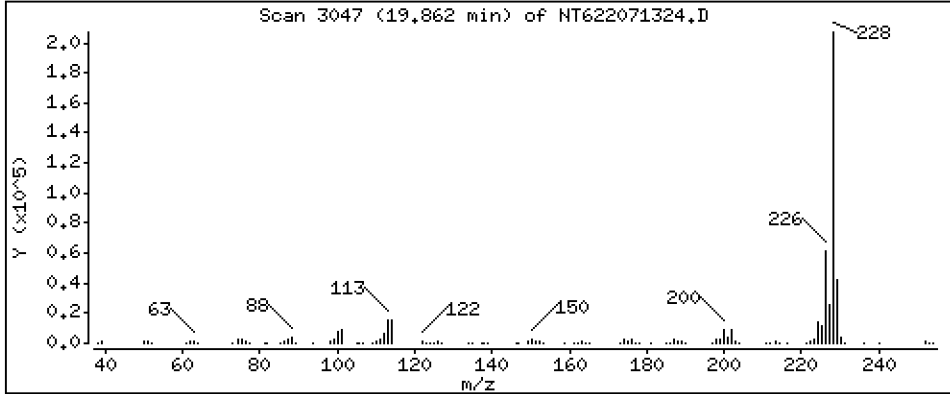
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

71 Chrysene

Concentration: 23.45 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

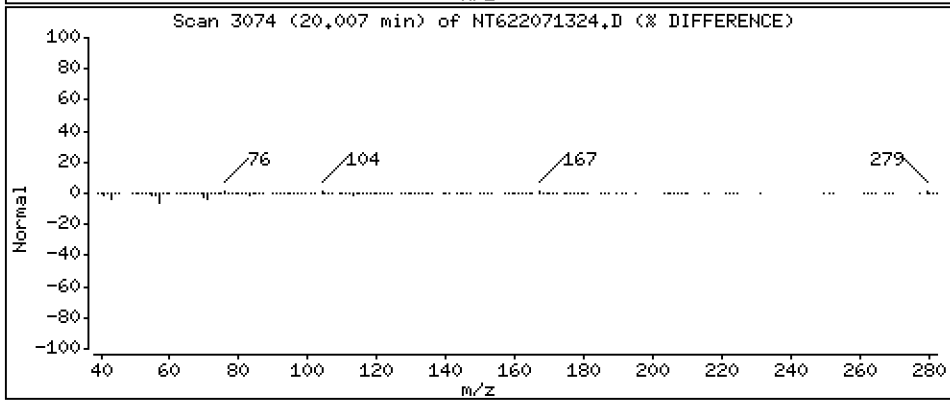
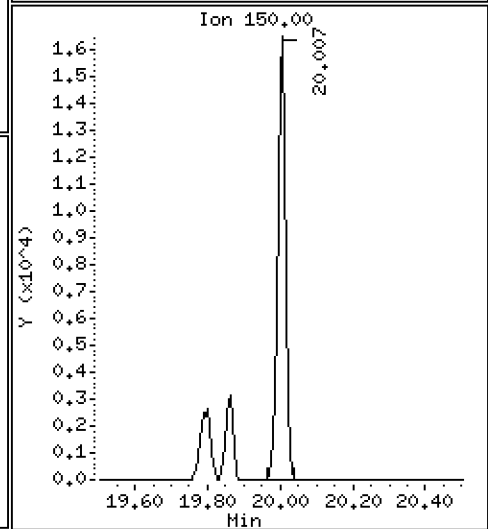
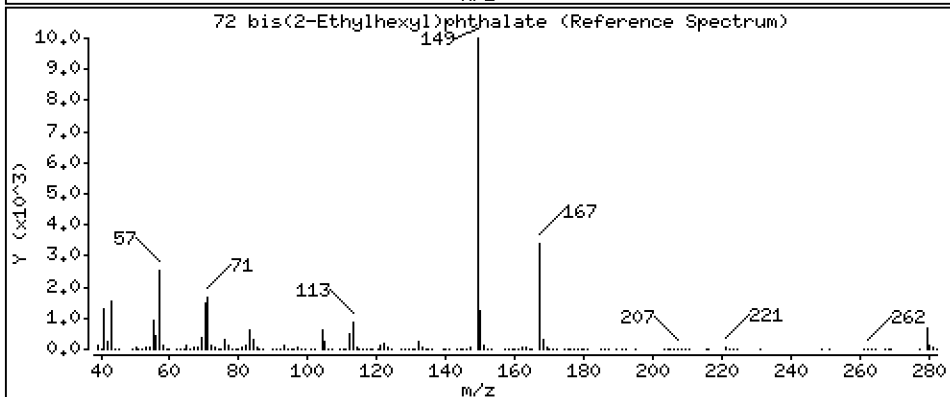
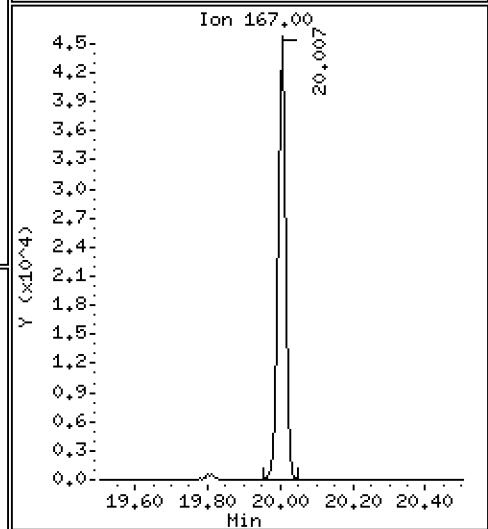
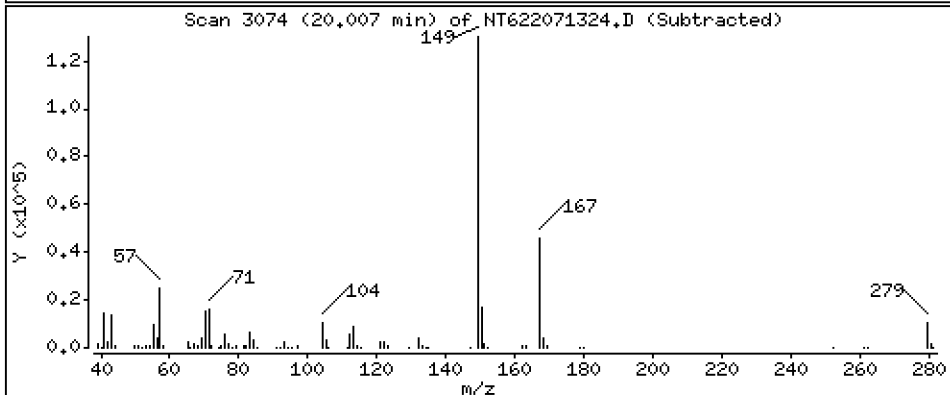
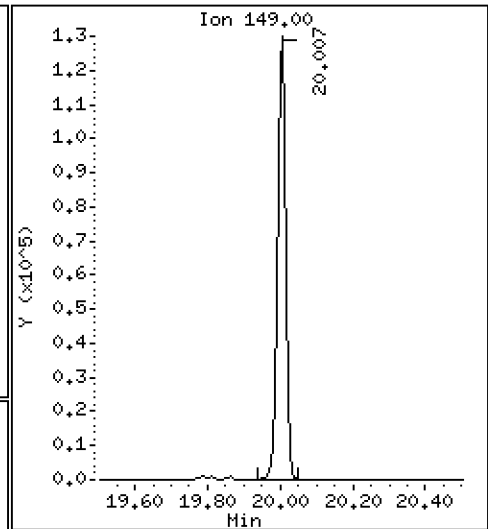
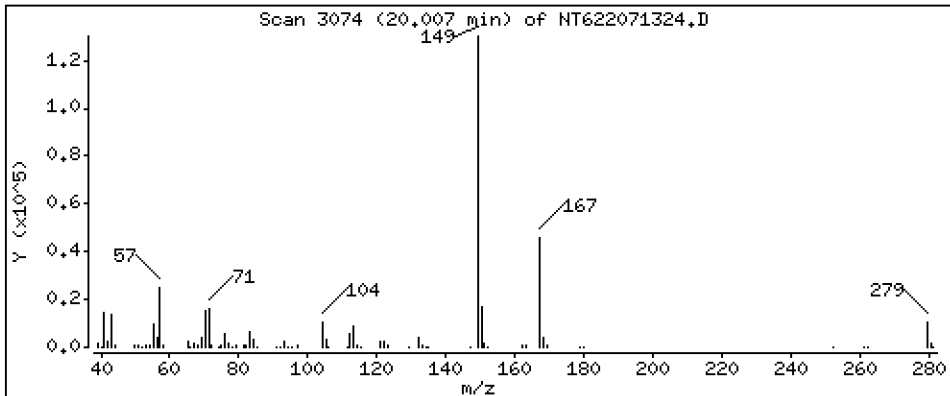
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

72 bis(2-Ethylhexyl)phthalate

Concentration: 26.45 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

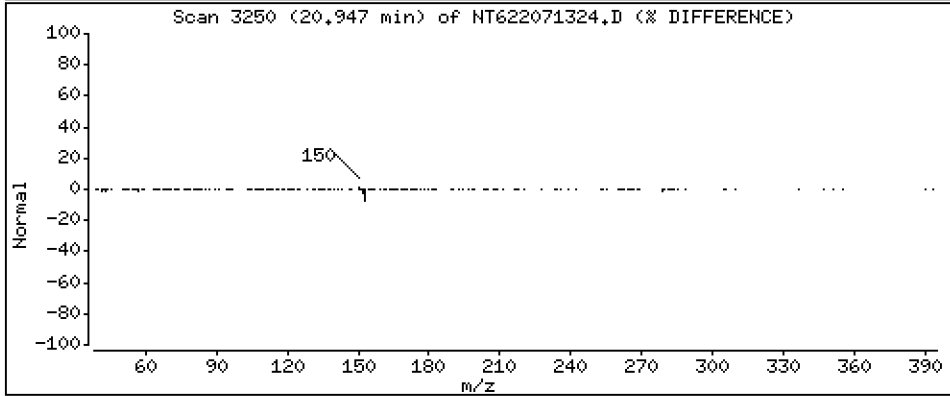
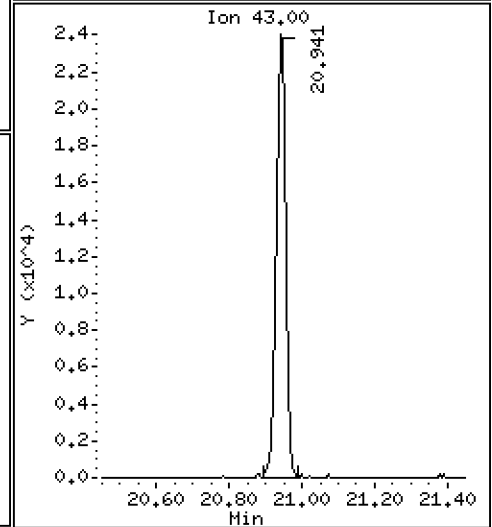
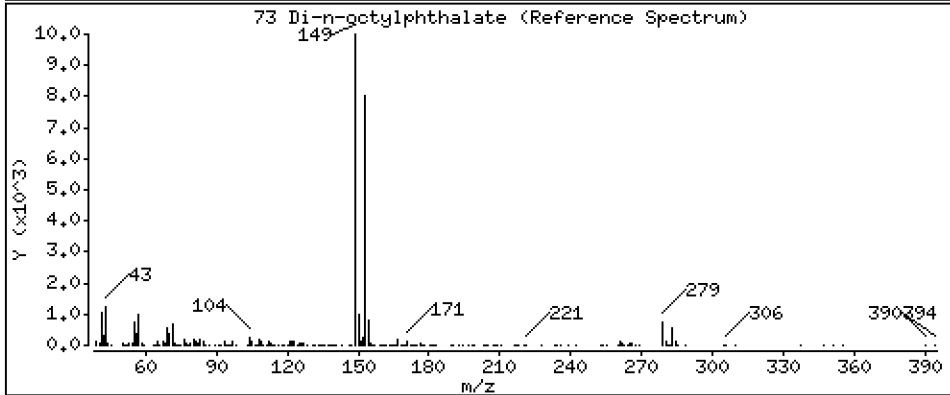
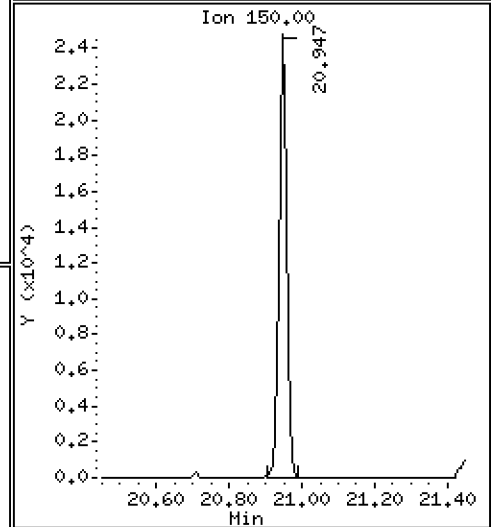
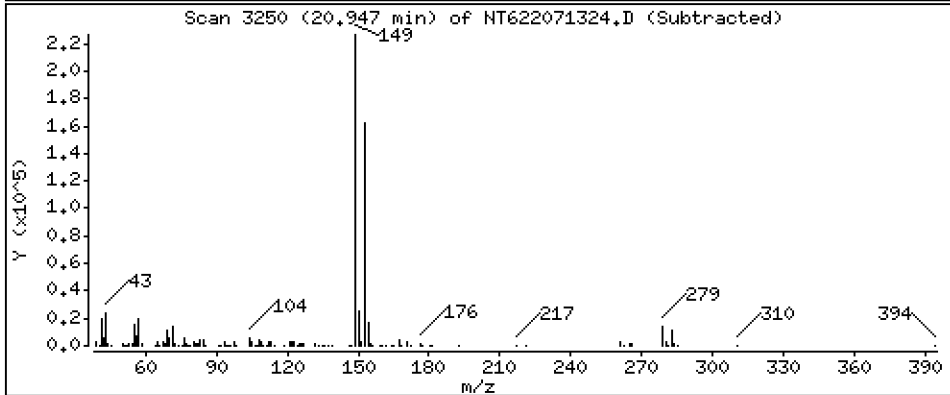
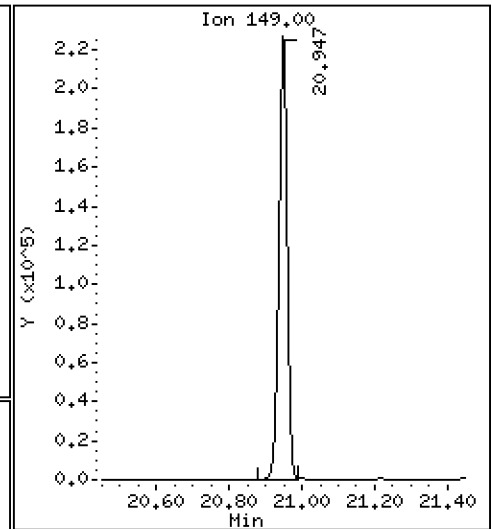
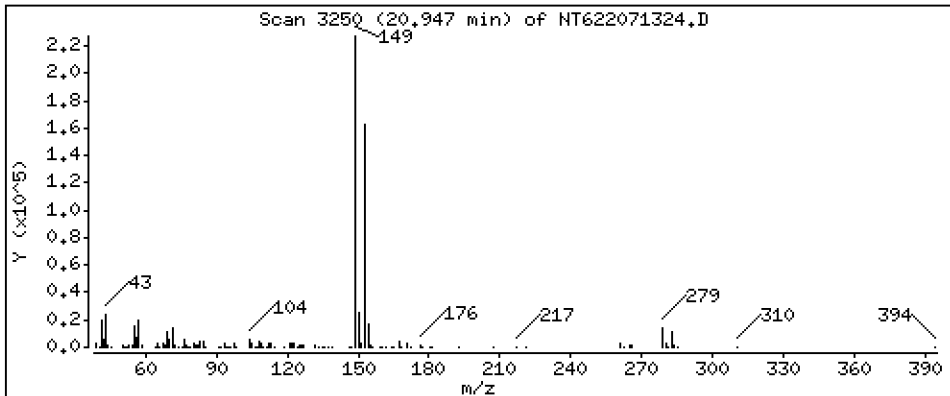
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

73 Di-n-octylphthalate

Concentration: 26,25 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

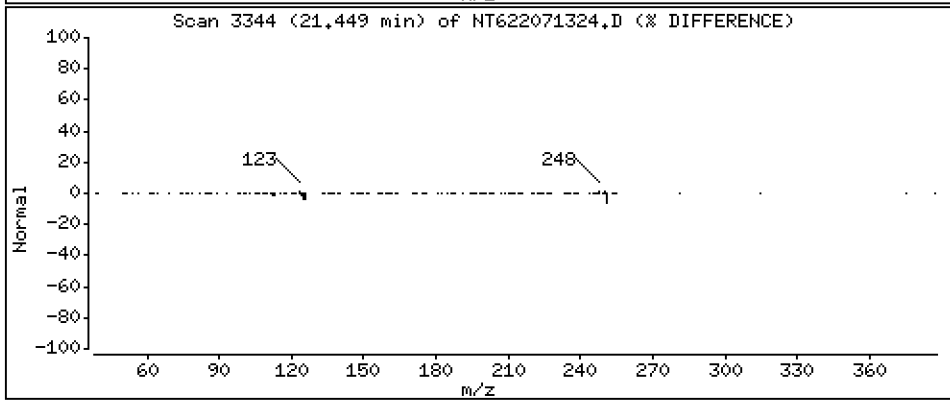
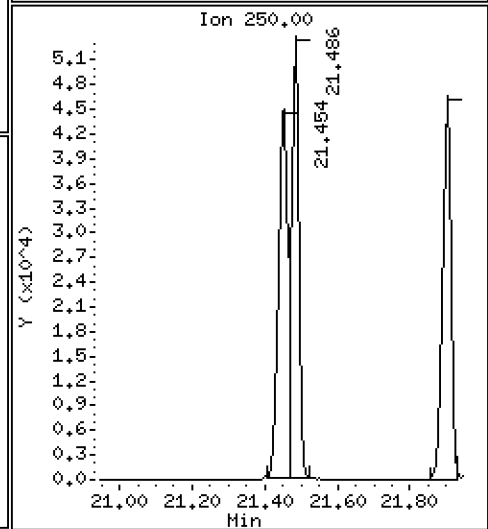
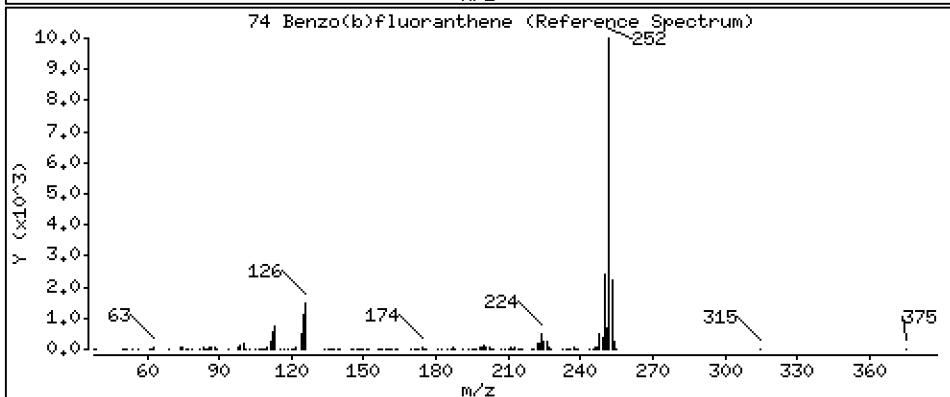
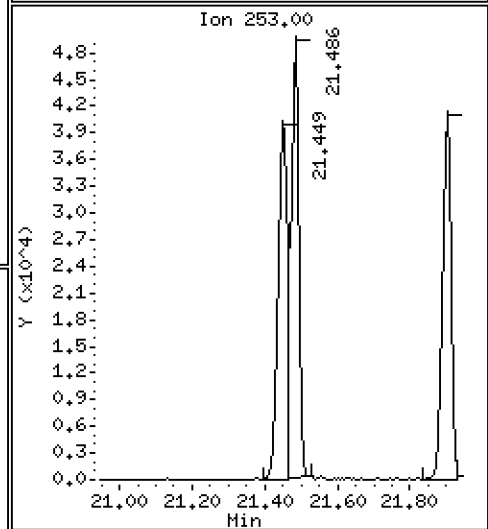
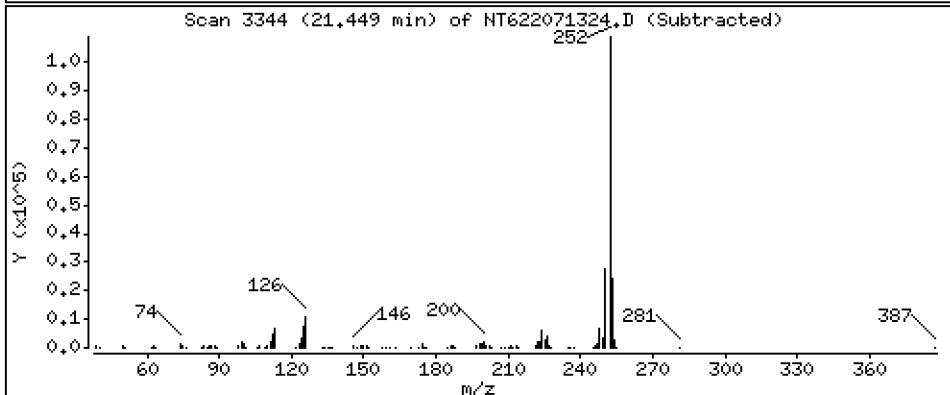
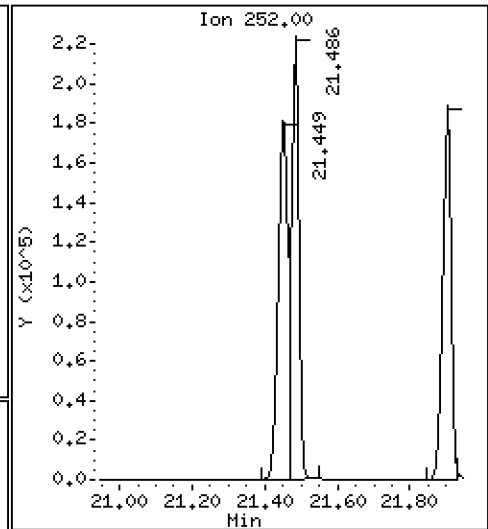
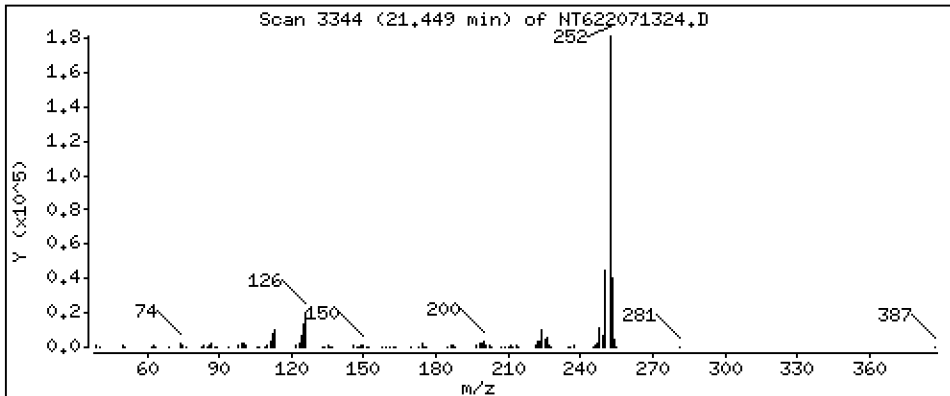
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

74 Benzo(b)fluoranthene

Concentration: 28.27 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

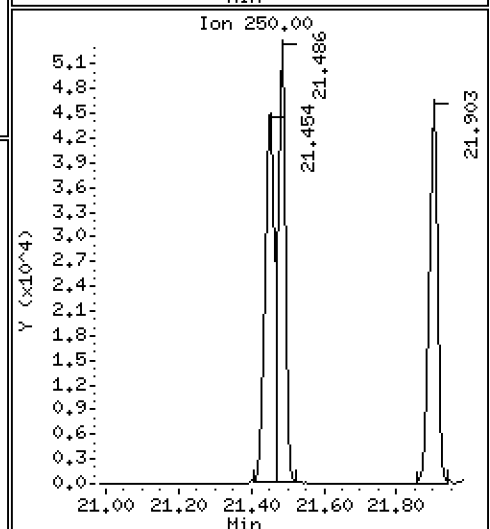
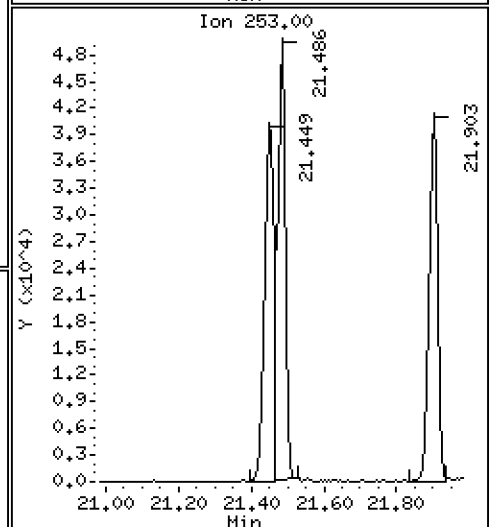
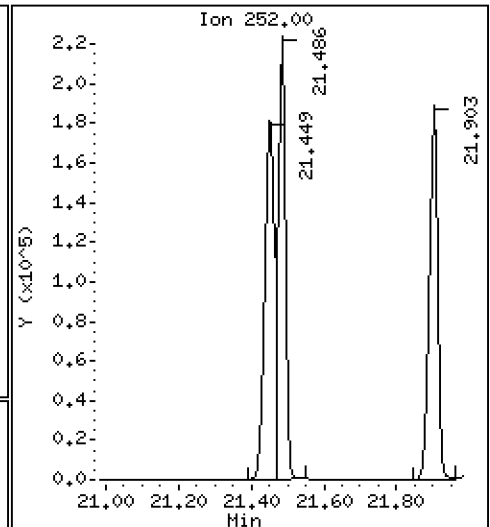
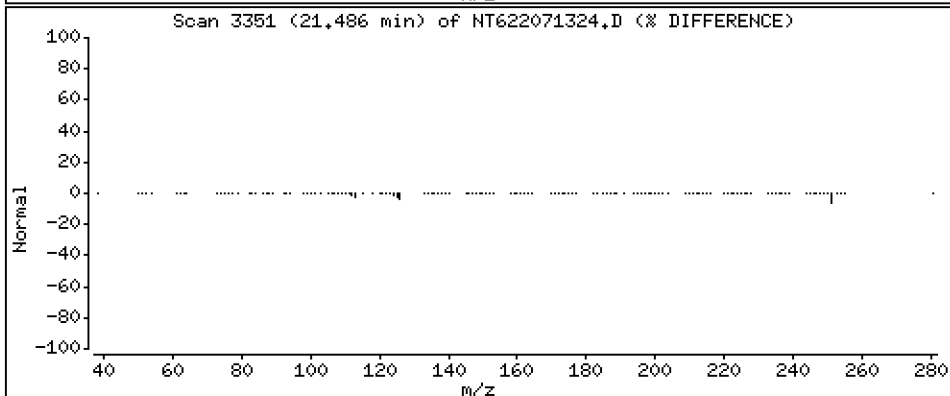
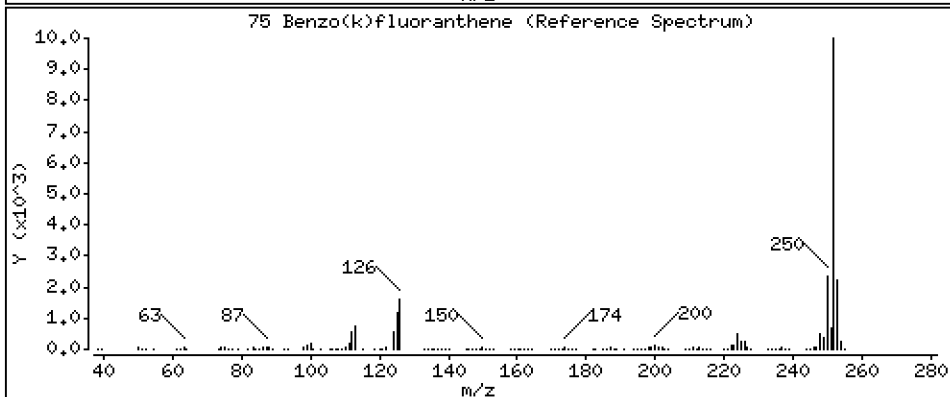
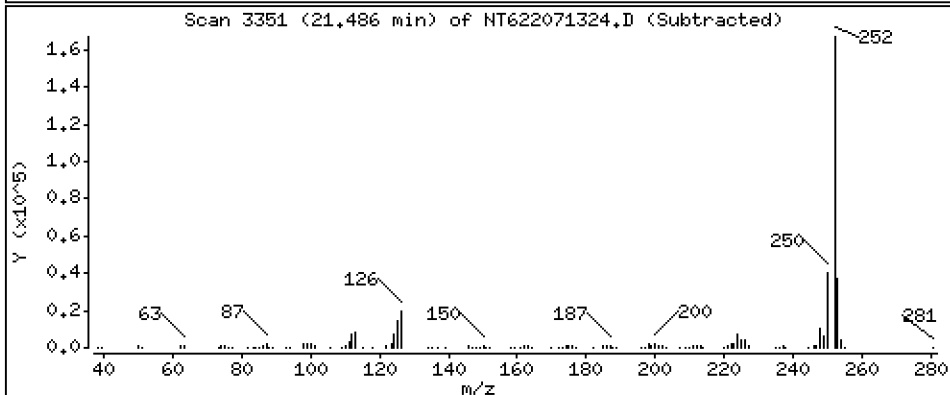
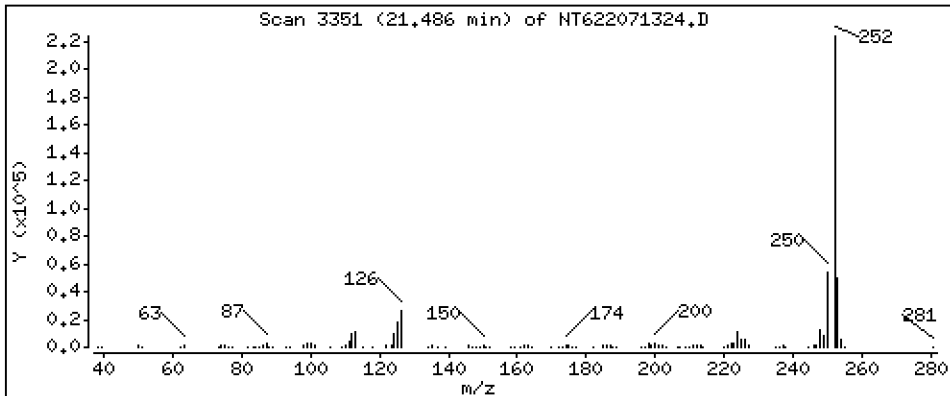
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

75 Benzo(k)fluoranthene

Concentration: 24.66 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

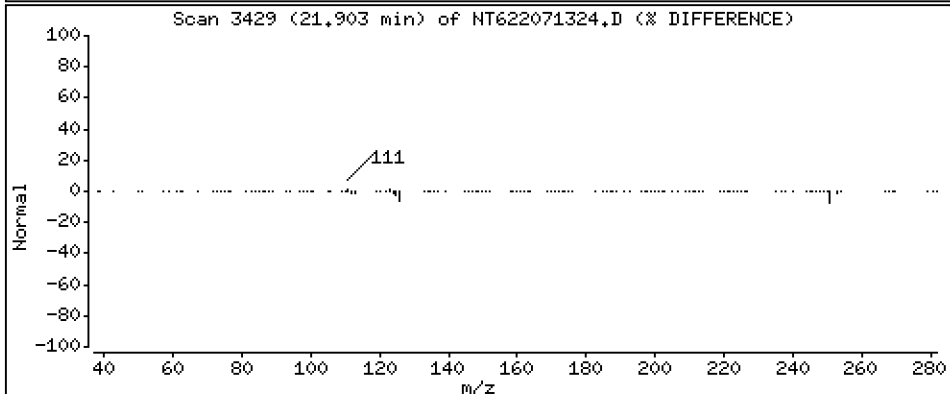
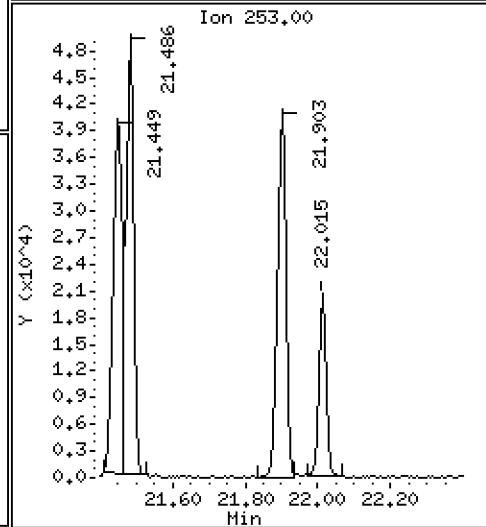
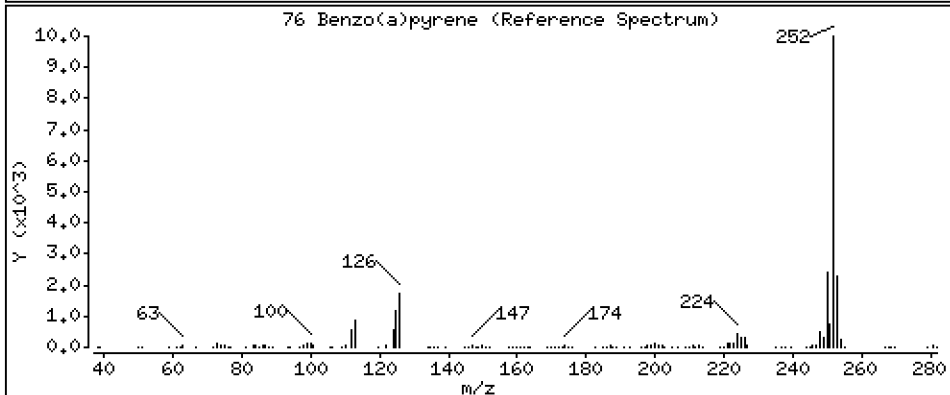
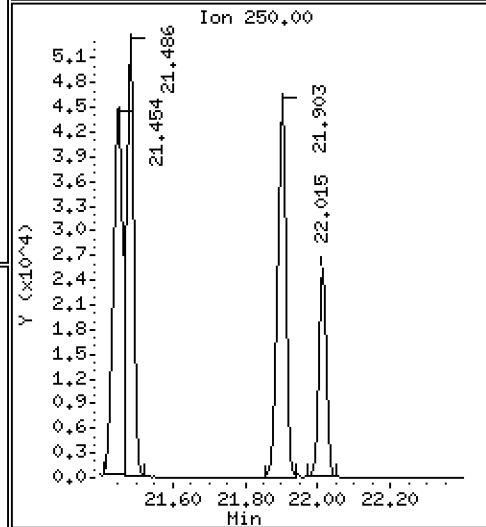
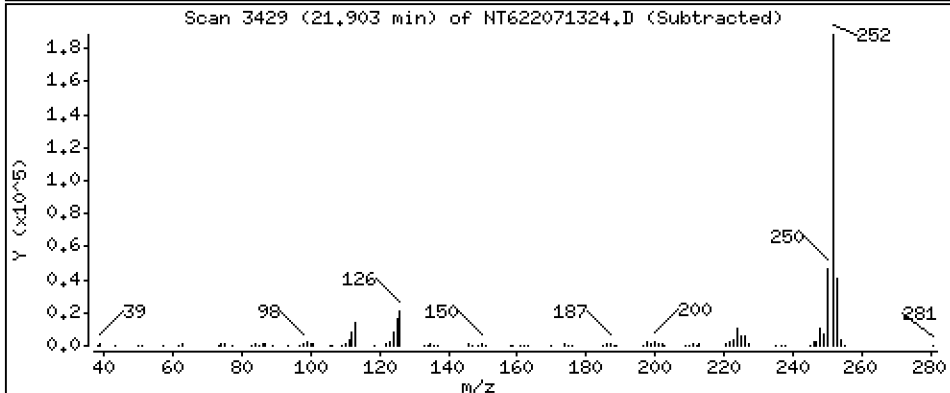
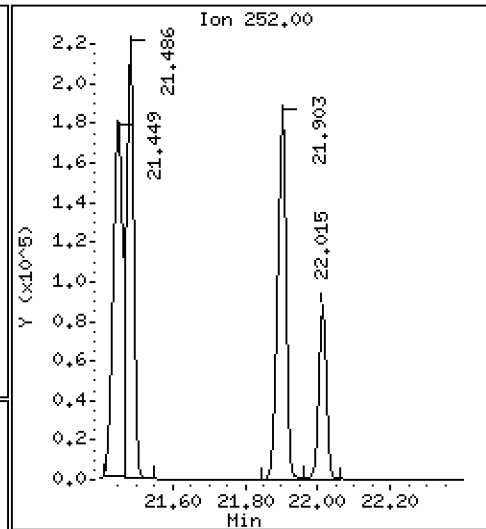
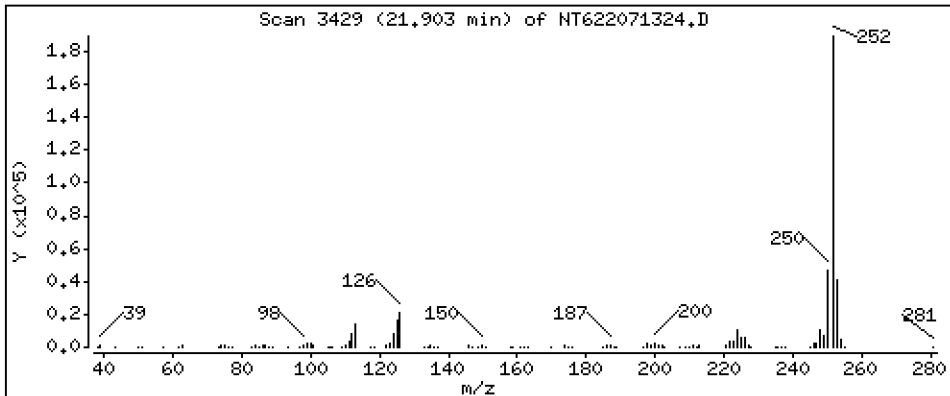
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

76 Benzo(a)pyrene

Concentration: 25.72 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

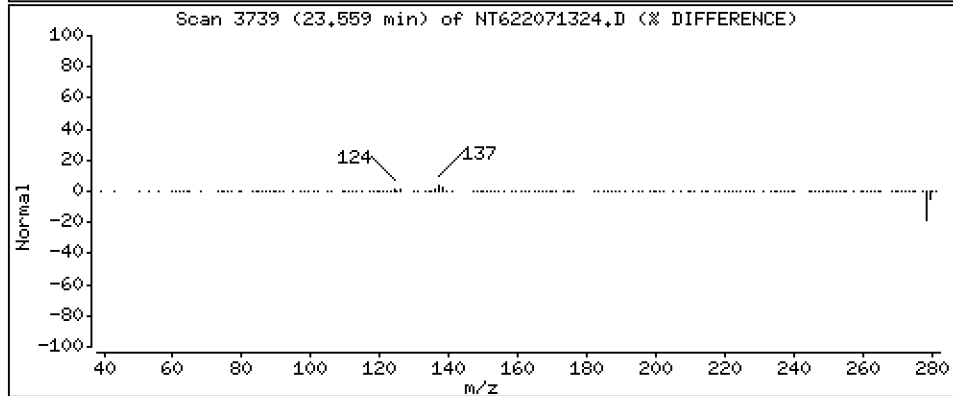
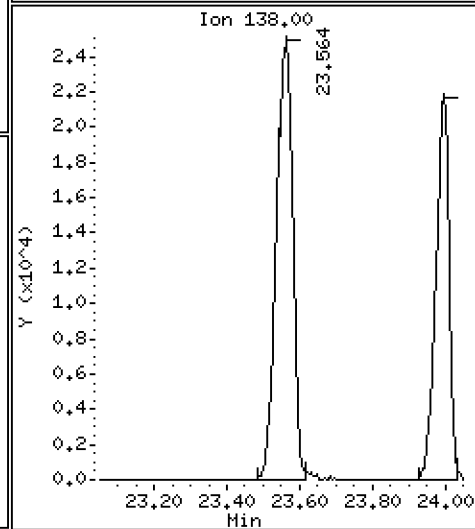
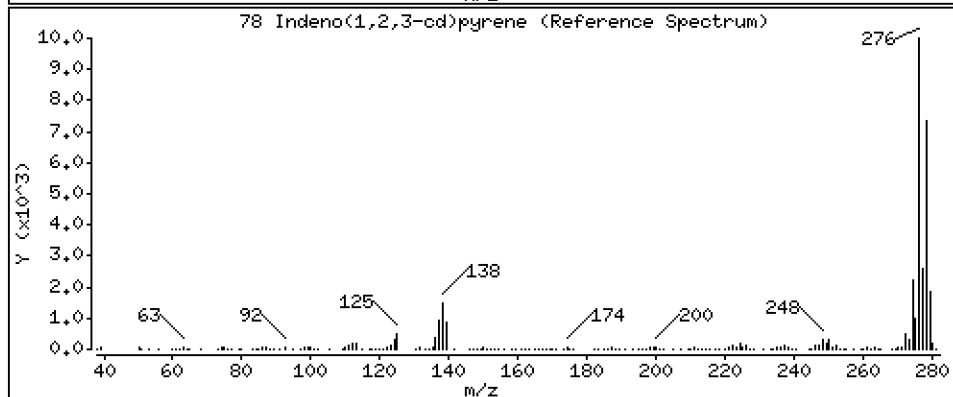
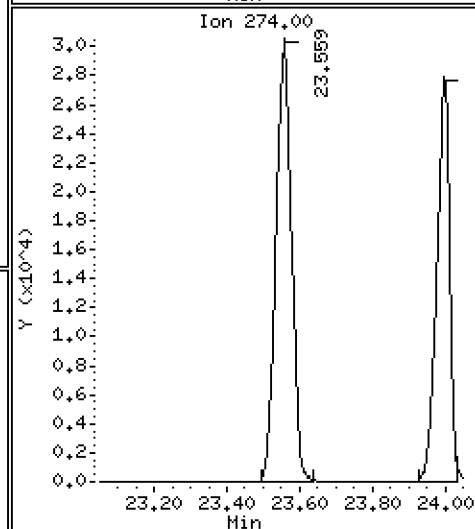
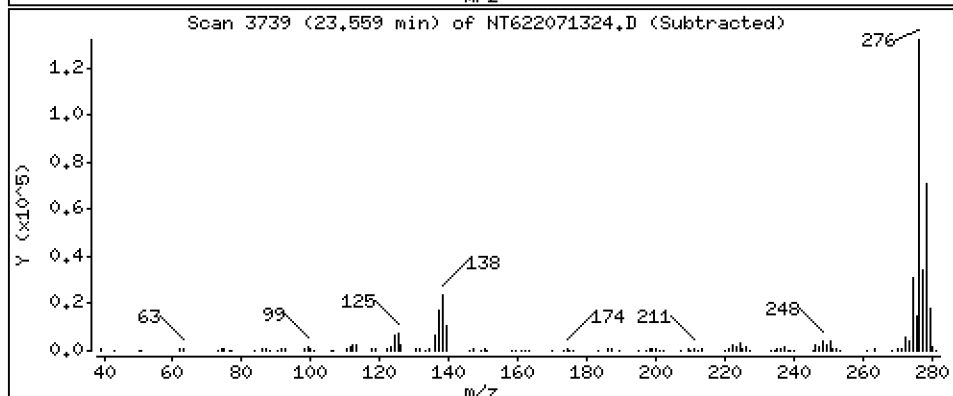
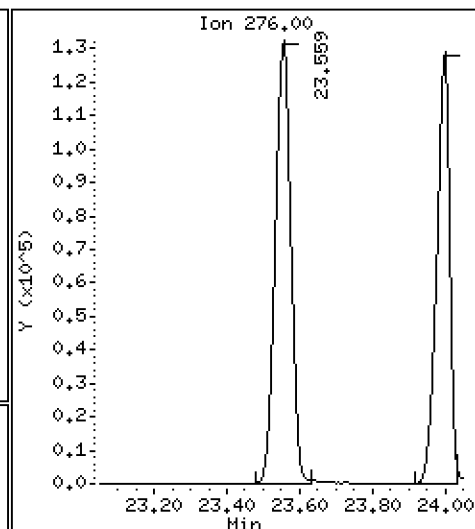
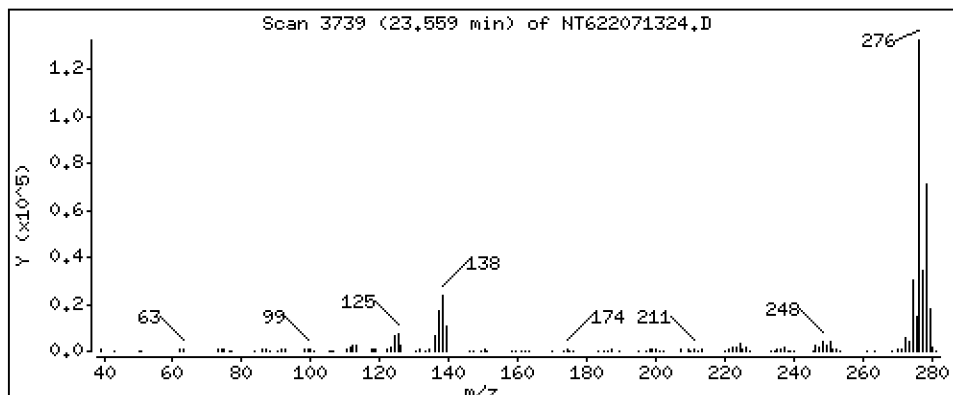
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

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

Concentration: 22.90 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

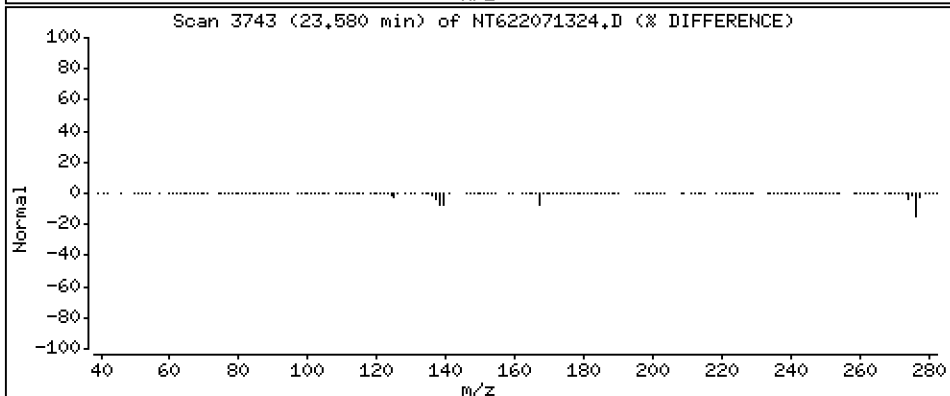
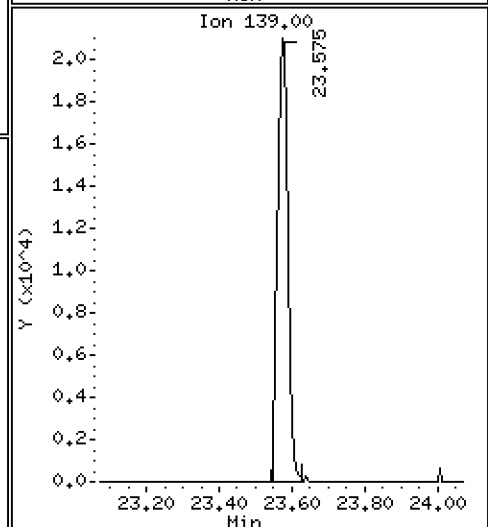
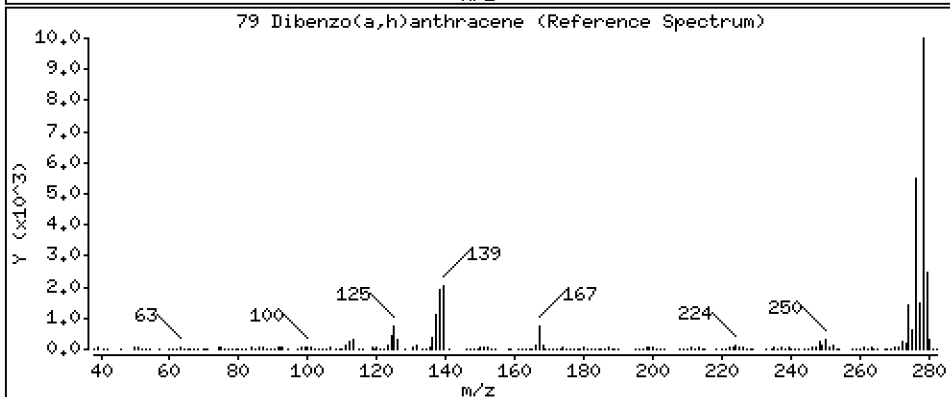
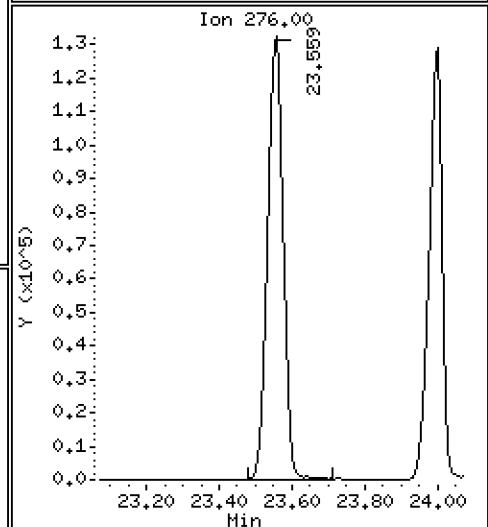
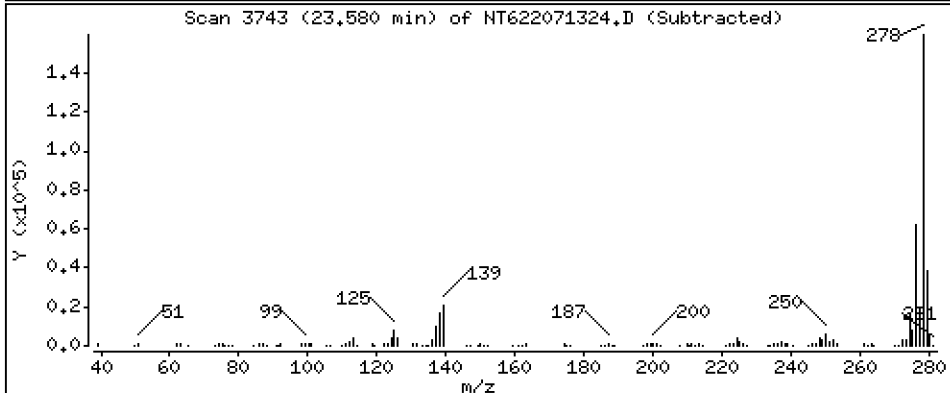
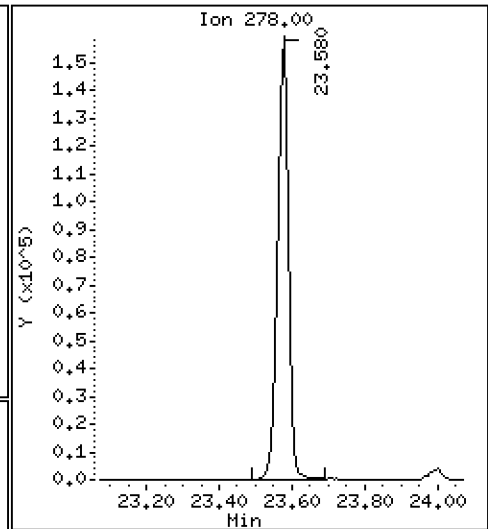
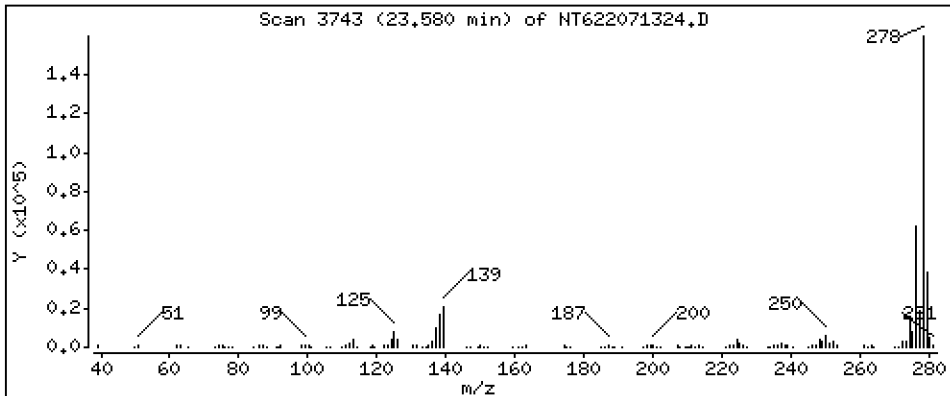
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

79 Dibenzo(a,h)anthracene

Concentration: 23,18 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

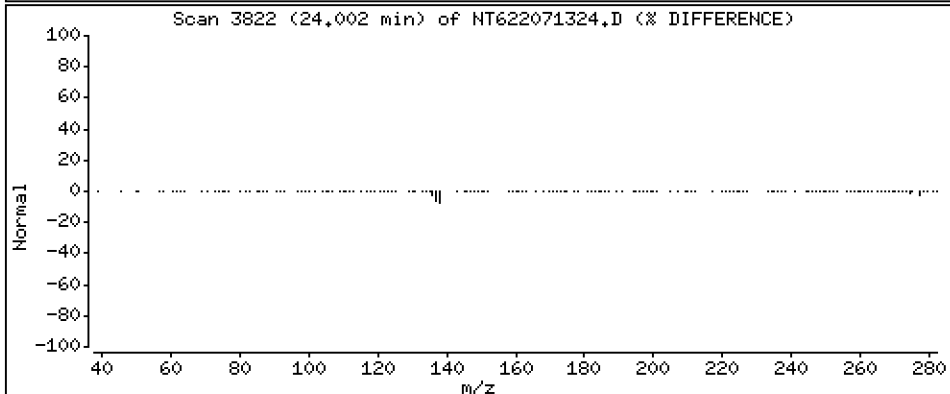
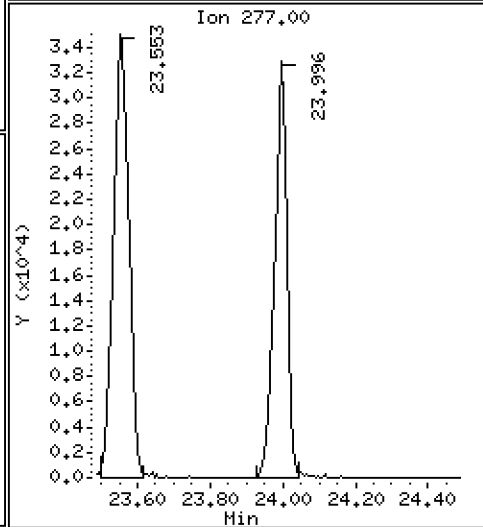
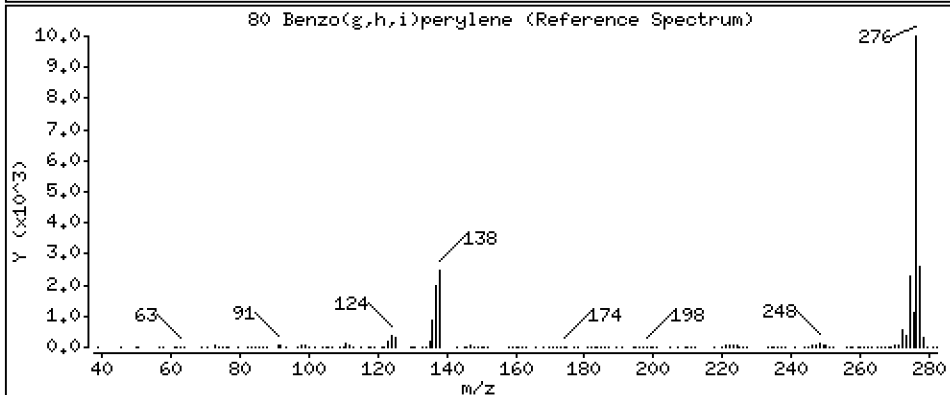
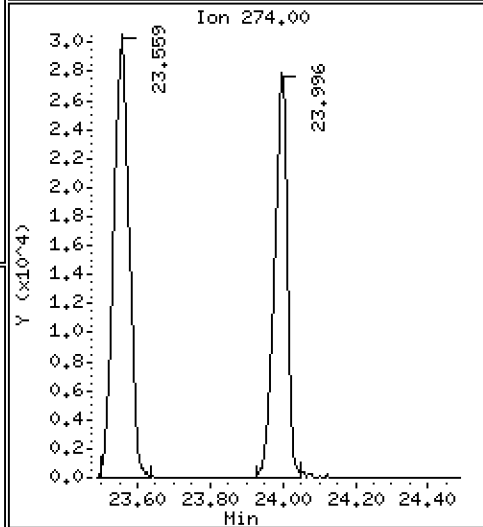
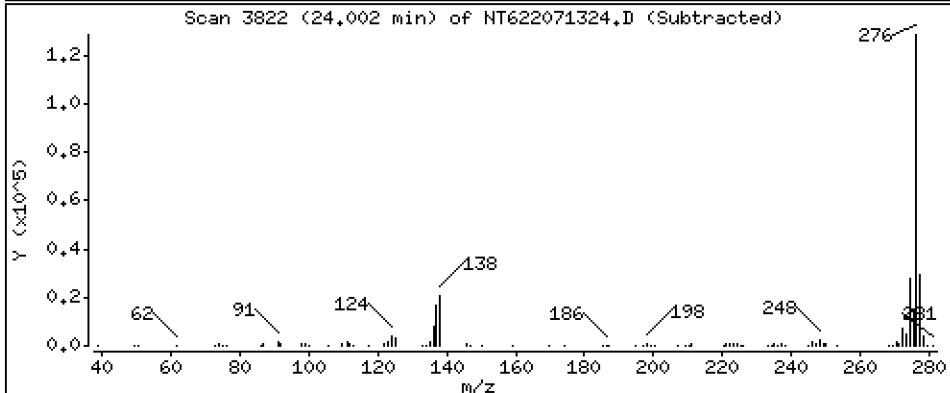
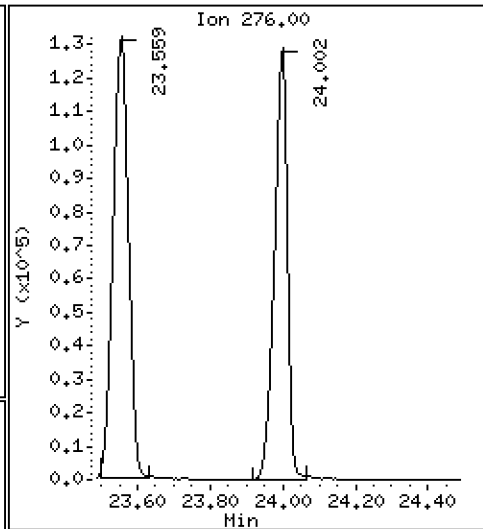
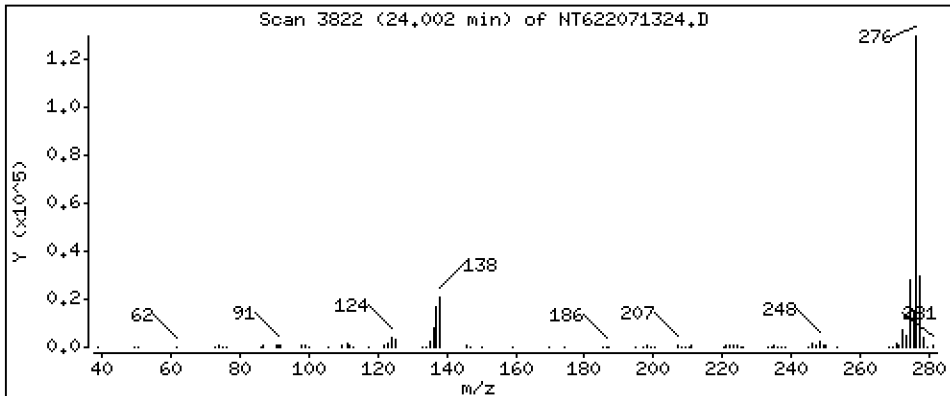
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

80 Benzo(g,h,i)perylene

Concentration: 21.78 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

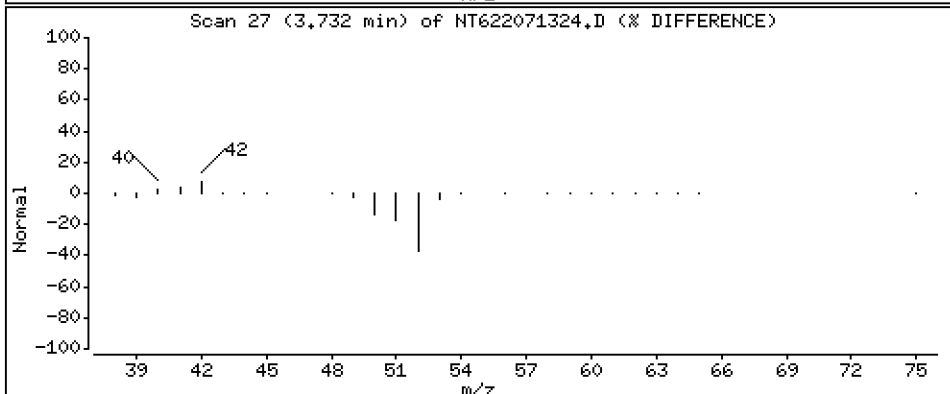
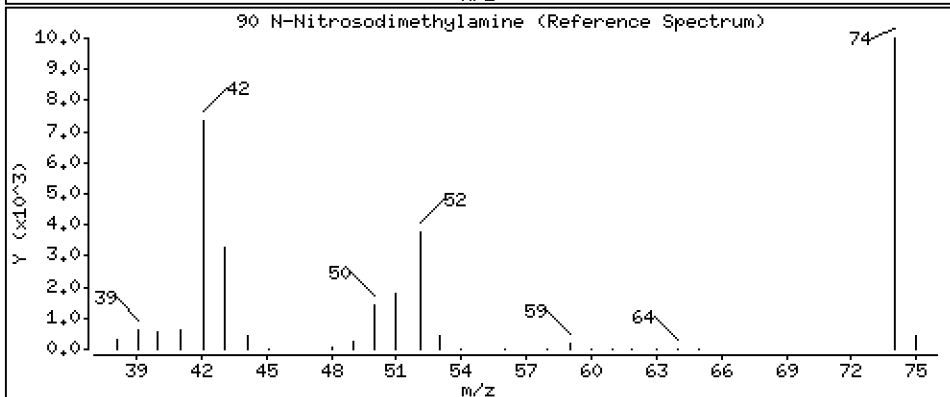
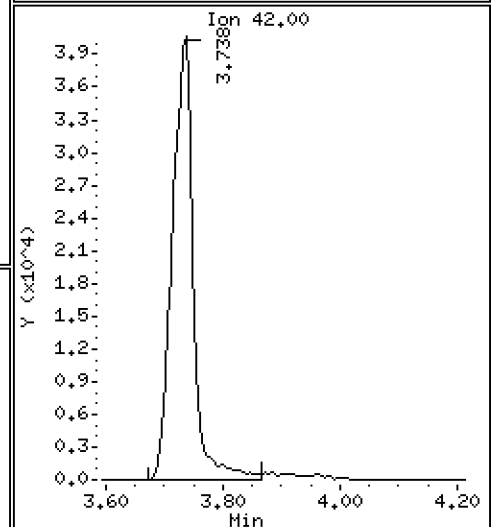
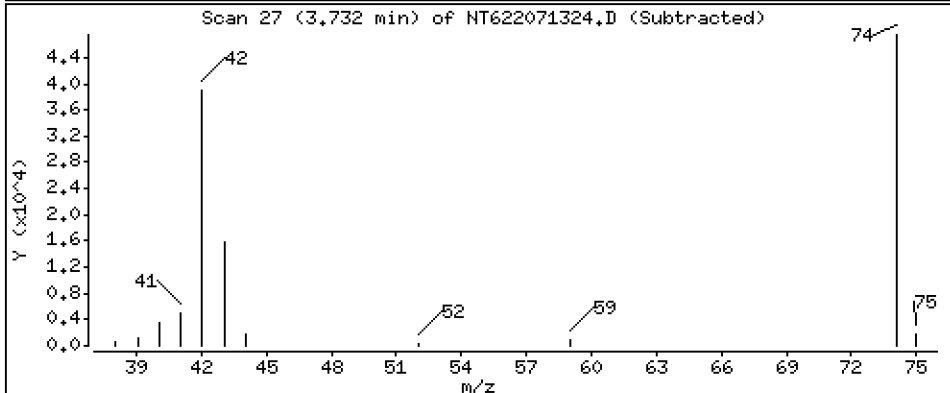
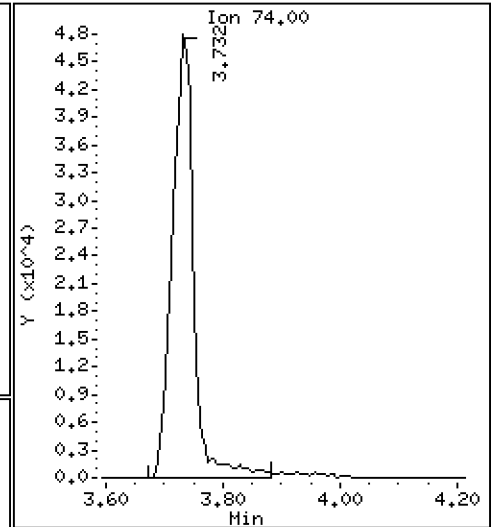
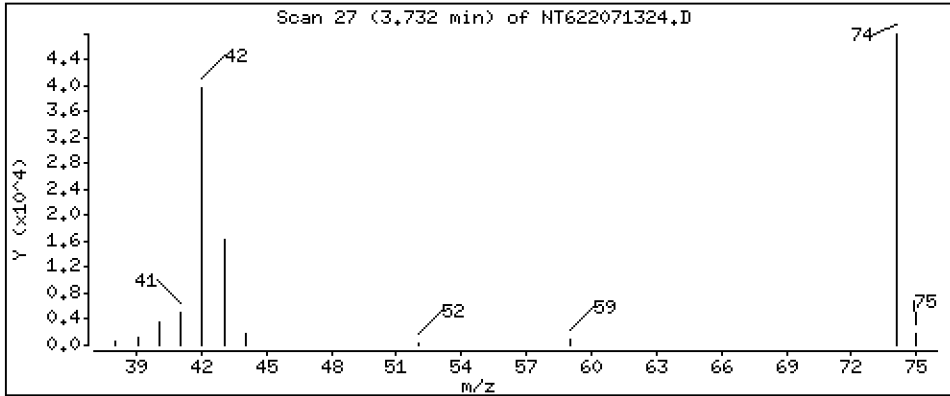
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

90 N-Nitrosodimethylamine

Concentration: 72.41 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

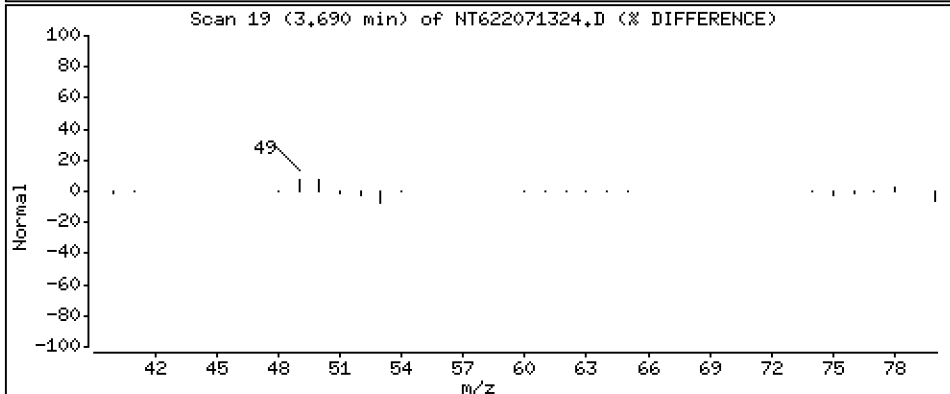
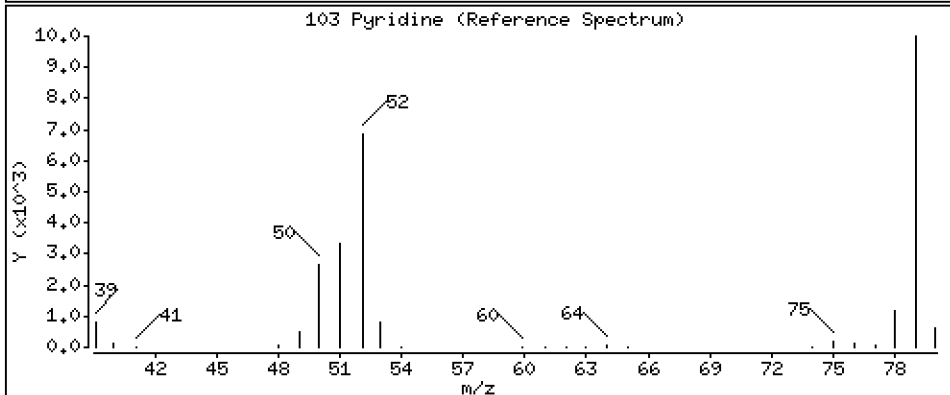
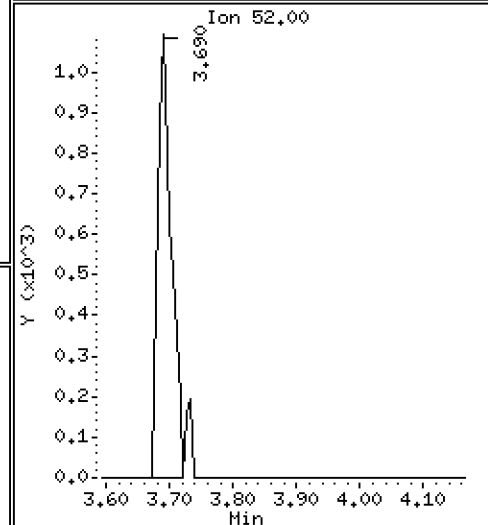
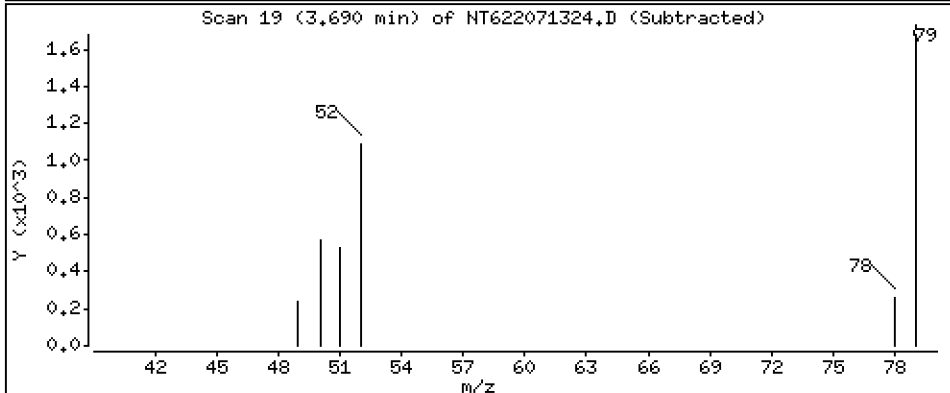
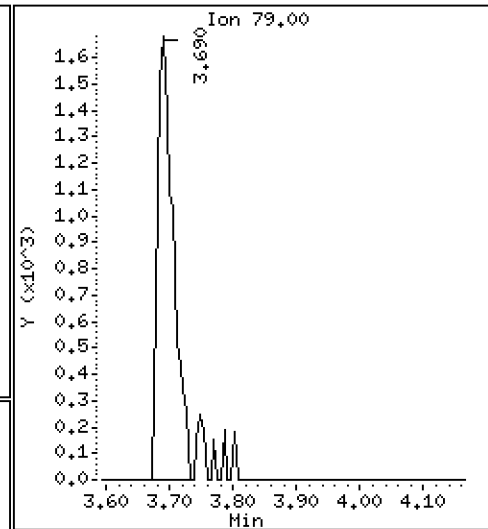
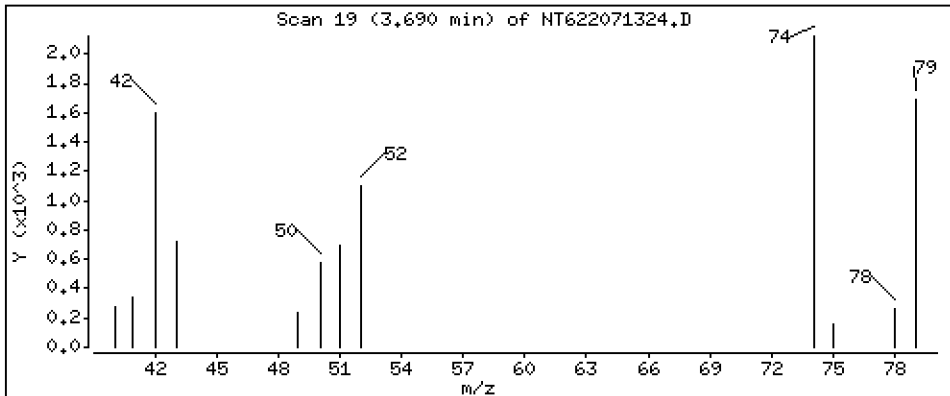
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

103 Pyridine

Concentration: 0.9074 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

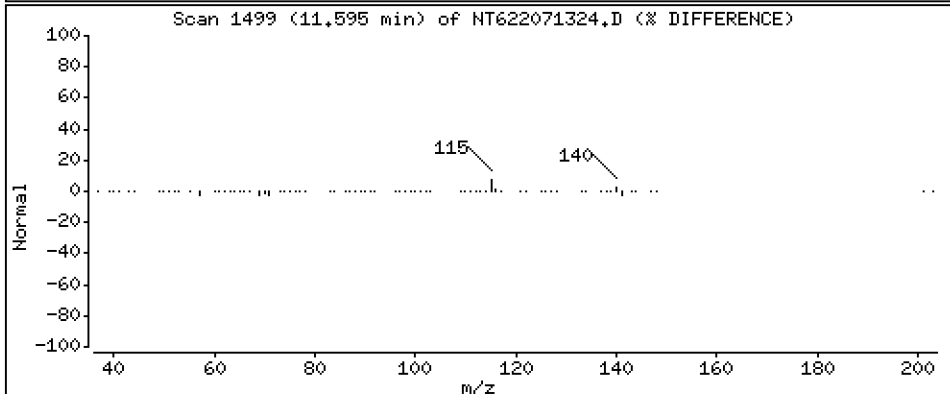
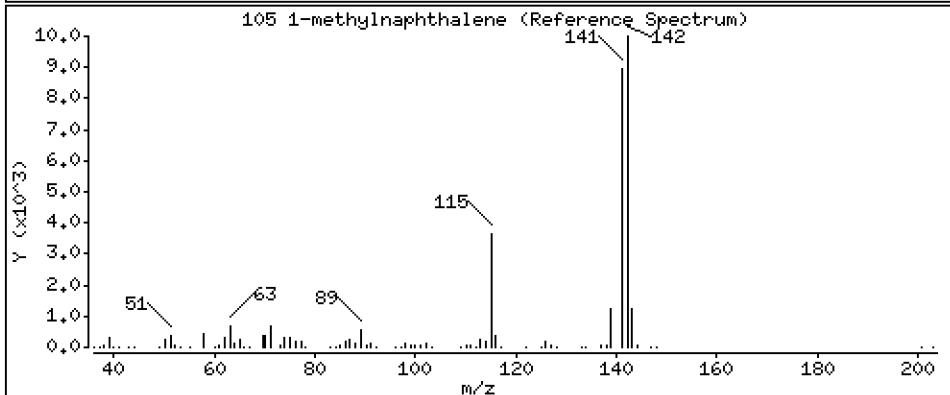
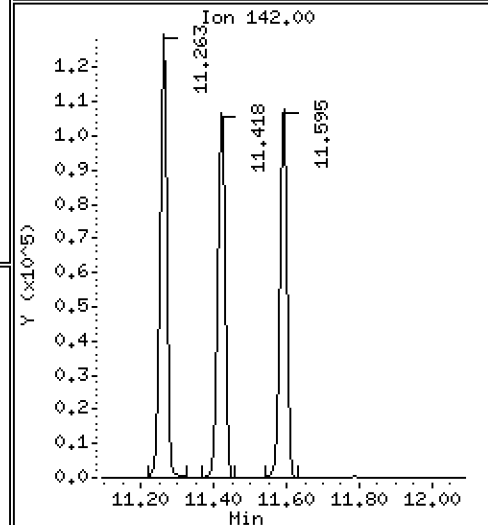
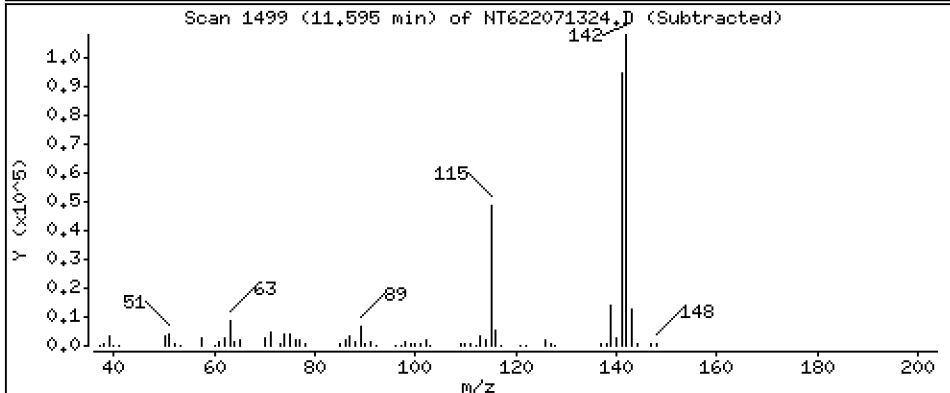
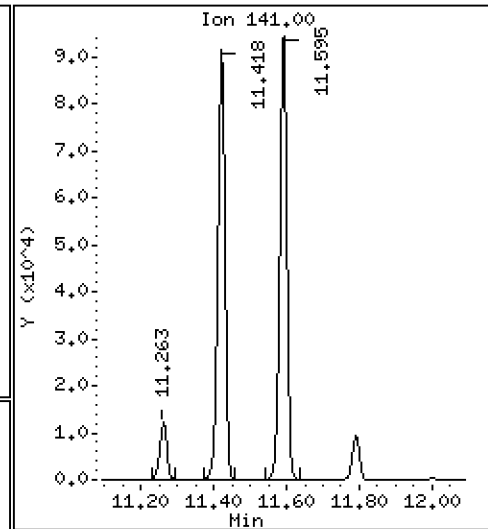
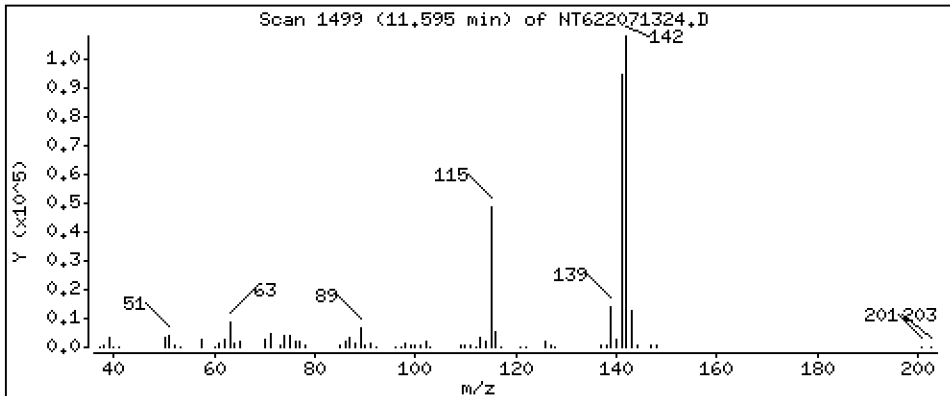
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

105 1-methylnaphthalene

Concentration: 25.90 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

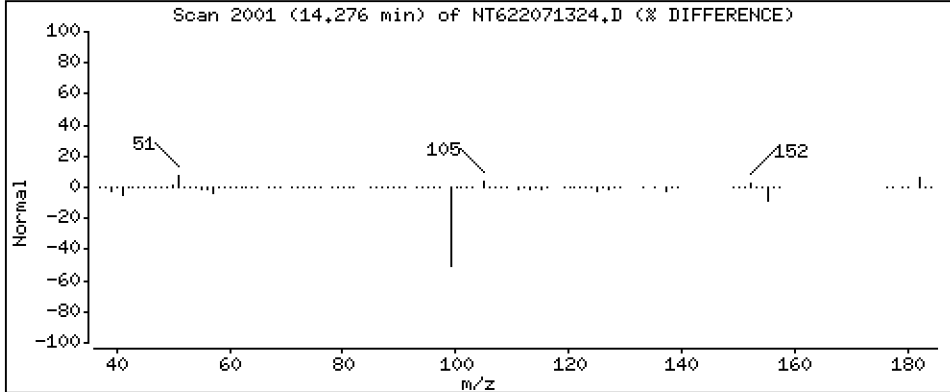
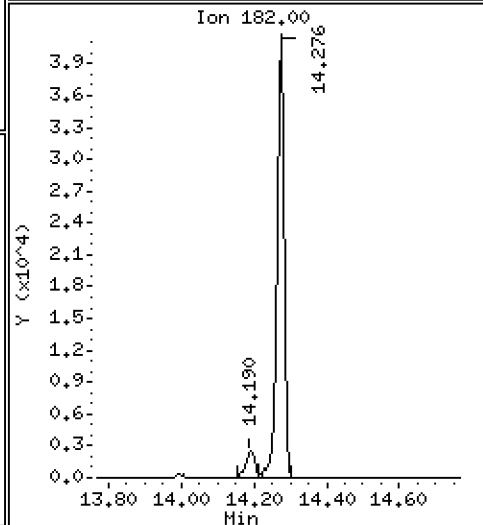
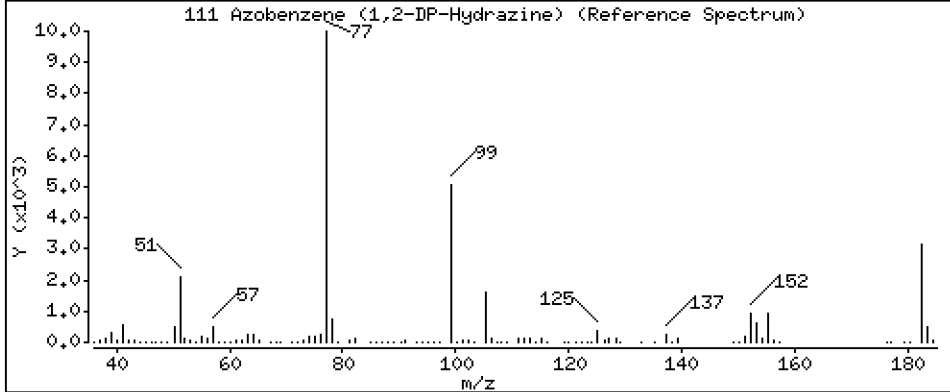
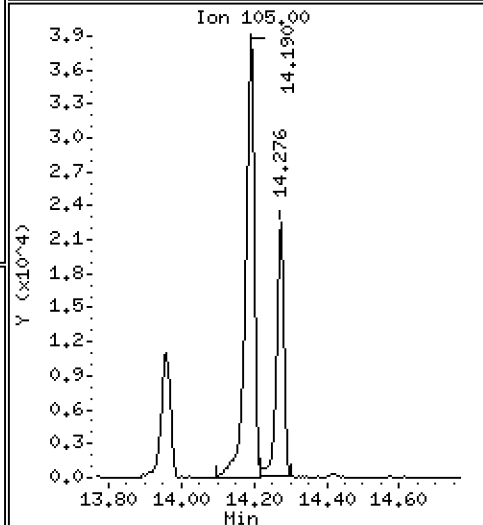
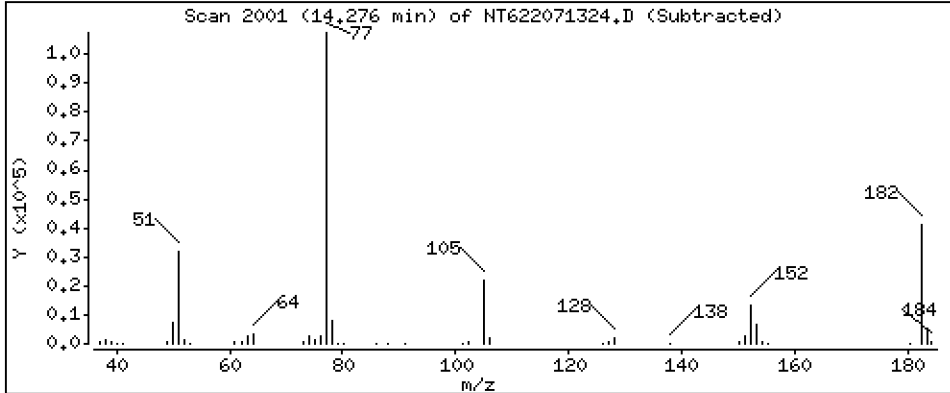
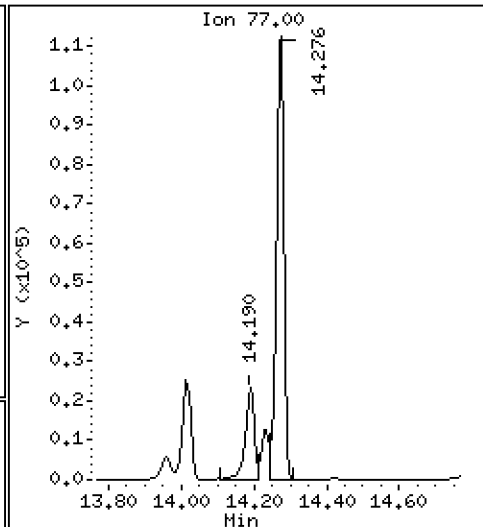
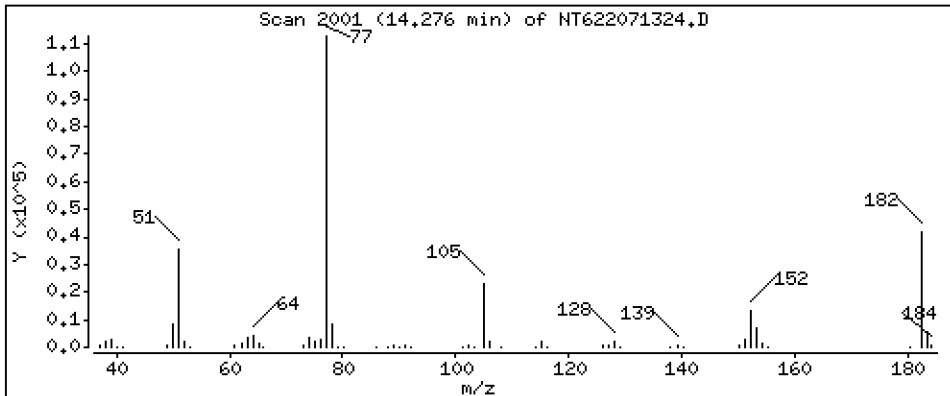
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 22.87 ug/mL



Date : 13-JUL-2022 23:47

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BS1.

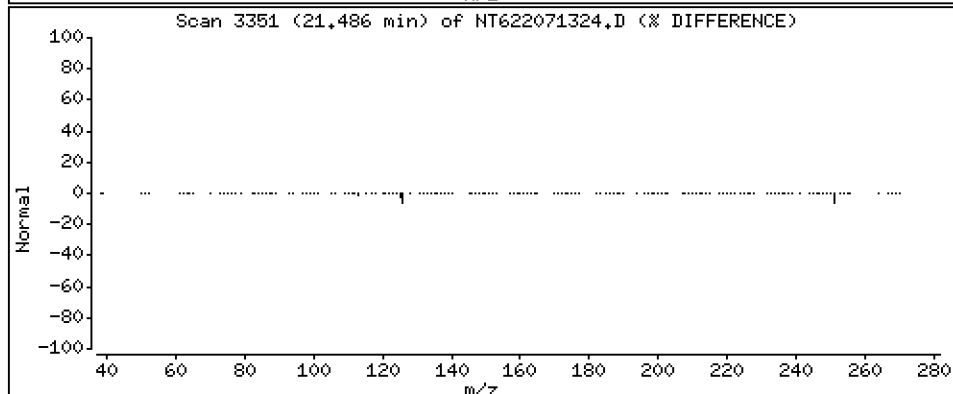
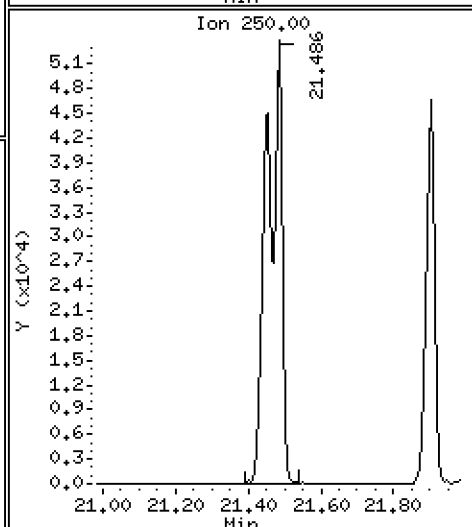
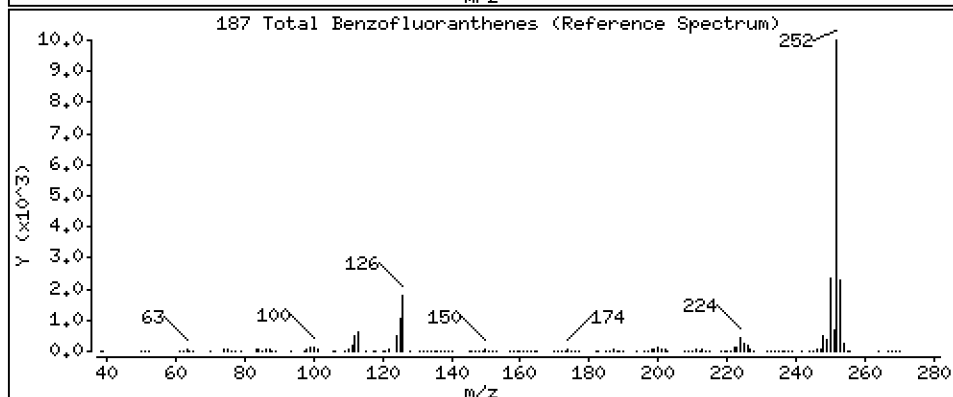
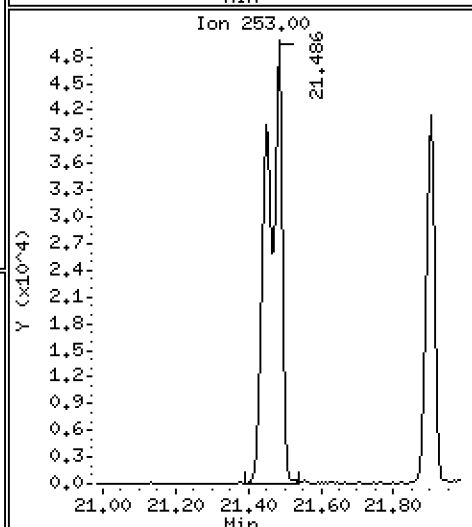
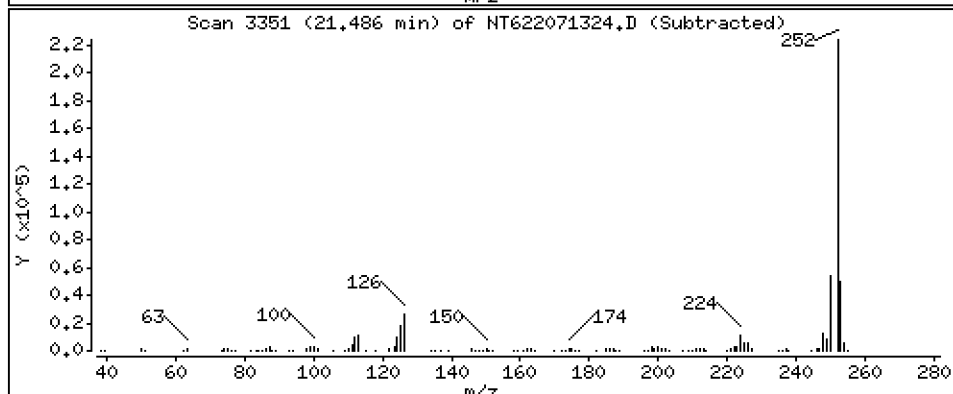
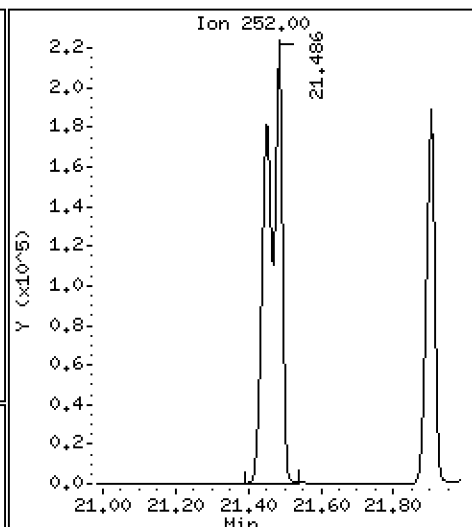
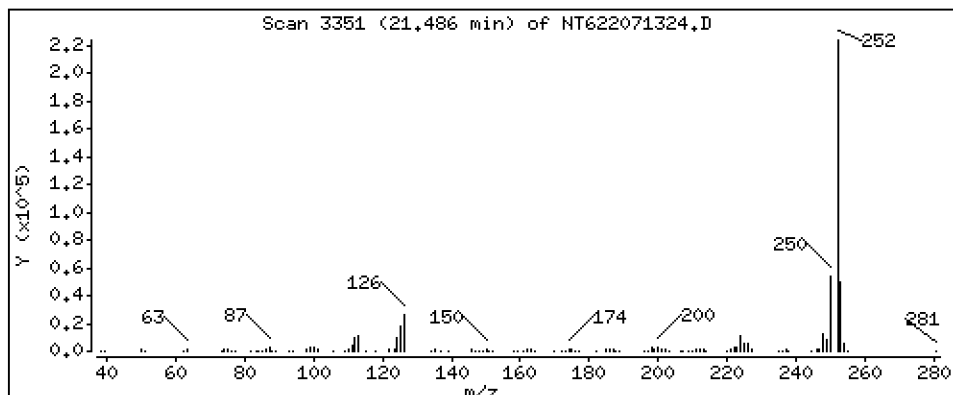
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

187 Total Benzofluoranthenes

Concentration: 52.84 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220713A.b\NT622071324.D
 Lab Smp Id: BKG0169-BS1
 Inj Date : 13-JUL-2022 23:47
 Operator : JZ Inst ID: nt6.i
 Smp Info : BKG0169-BS1,
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220713A.b\SW84620220516.m
 Meth Date : 14-Jul-2022 10:53 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 24
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: LLM DL.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.306	6.309	(0.765)	128559	35.8929	35.89
\$ 2 Phenol-d5	99		7.823	7.826	(0.949)	159358	38.8939	38.89
3 Phenol	94		7.839	7.842	(0.951)	86096	18.0790	18.08
\$ 5 2-Chlorophenol-d4	132		7.946	7.949	(0.964)	140762	38.0102	38.01
4 Bis(2-Chloroethyl)ether	93		7.909	7.906	(0.960)	65359	22.7436	22.74
6 2-Chlorophenol	128		7.973	7.970	(0.968)	76057	19.5604	19.56
7 1,3-Dichlorobenzene	146		8.176	8.173	(0.992)	75996	18.8116	18.81
* 8 1,4-Dichlorobenzene-d4	152		8.240	8.237	(1.000)	66267	20.0000	
9 1,4-Dichlorobenzene	146		8.261	8.259	(1.003)	77800	19.7423	19.74
\$ 10 1,2-Dichlorobenzene-d4	152		8.534	8.531	(1.036)	62692	23.6547	23.65
12 1,2-Dichlorobenzene	146		8.555	8.553	(1.038)	72729	19.4366	19.44
11 Benzyl alcohol	108		8.523	8.521	(1.034)	53539	24.0712	24.07
14 2,2'-oxybis(1-Chloropropane)	45		8.769	8.766	(1.064)	56748	25.7214	25.72
13 2-Methylphenol	108		8.758	8.756	(1.063)	67567	20.9482	20.95
17 Hexachloroethane	117		9.036	9.039	(1.097)	30304	19.0681	19.07
16 N-Nitroso-di-n-propylamine	70		8.988	8.985	(1.091)	55039	25.5465	25.55
15 4-Methylphenol	108		8.993	8.985	(1.091)	75209	21.8604	21.86
\$ 18 Nitrobenzene-d5	82		9.164	9.161	(0.892)	96395	28.1732	28.17
19 Nitrobenzene	77		9.196	9.194	(0.895)	79289	24.4026	24.40
20 Isophorone	82		9.580	9.567	(0.932)	149868	36.3828	36.38
21 2-Nitrophenol	139		9.703	9.706	(0.944)	45185	22.4753	22.48
22 2,4-Dimethylphenol	107		9.821	9.813	(0.956)	217420	57.5206	57.52
23 Bis(2-Chloroethoxy)methane	93		9.960	9.952	(0.969)	82375	28.0162	28.02
24 Benzoic acid	105		10.152	10.080	(0.988)	296592	122.948	122.9
25 2,4-Dichlorophenol	162		10.093	10.091	(0.982)	191713	62.2470	62.25
26 1,2,4-Trichlorobenzene	180		10.211	10.214	(0.994)	74174	21.1361	21.14
* 27 Naphthalene-d8	136		10.275	10.272	(1.000)	222815	20.0000	
28 Naphthalene	128		10.301	10.304	(1.003)	209752	22.3969	22.40
29 4-Chloroaniline	127		10.451	10.449	(1.017)	238504	61.9636	61.96
30 Hexachlorobutadiene	225		10.617	10.614	(1.033)	50316	22.2223	22.22
31 4-Chloro-3-methylphenol	107		11.263	11.261	(1.096)	209253	67.4577	67.46
32 2-Methylnaphthalene	141		11.418	11.415	(1.111)	125849	23.5330	23.53
33 Hexachlorocyclopentadiene	237		11.797	11.795	(0.898)	106220	40.1057	40.11

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		11.936	11.934	(0.909)	169646	62.0416	62.04	
35 2,4,5-Trichlorophenol	196		12.000	11.998	(0.914)	177725	61.0362	61.04	
\$ 36 2-Fluorobiphenyl	172		12.059	12.056	(0.918)	229780	25.7957	25.80	
37 2-Chloronaphthalene	162		12.198	12.195	(0.929)	155636	21.9466	21.95	
38 2-Nitroaniline	65		12.449	12.436	(0.948)	119206	66.4960	66.50	
39 Dimethylphthalate	163		12.812	12.799	(0.976)	204782	26.3874	26.39	
40 Acenaphthylene	152		12.881	12.874	(0.981)	265686	23.1068	23.11	
41 2,6-Dinitrotoluene	165		12.908	12.895	(0.983)	125367	70.8654	70.87	
* 42 Acenaphthene-d10	164		13.132	13.125	(1.000)	146427	20.0000		
43 3-Nitroaniline	138		13.132	13.114	(1.000)	122048	70.6473	70.65	
44 Acenaphthene	153		13.180	13.178	(1.004)	156901	23.0154	23.02	
45 2,4-Dinitrophenol	184		13.287	13.274	(1.012)	138673	114.295	114.3	
46 Dibenzofuran	168		13.442	13.434	(1.024)	250933	25.4701	25.47	
47 4-Nitrophenol	109		13.442	13.445	(1.024)	90489	72.4725	72.47	
48 2,4-Dinitrotoluene	165		13.538	13.520	(1.031)	166432	72.8953	72.90	
50 Diethylphthalate	149		13.960	13.947	(1.063)	212843	28.3933	28.39	
49 Fluorene	166		13.998	13.995	(1.066)	192625	24.4415	24.44	
51 4-Chlorophenyl-phenylether	204		14.019	14.017	(1.068)	113357	25.6313	25.63	
52 4-Nitroaniline	138		14.142	14.113	(1.077)	110342	70.6271	70.63	
53 4,6-Dinitro-2-methylphenol	198		14.195	14.177	(0.916)	175907	114.773	114.8	
54 N-Nitrosodiphenylamine	169		14.233	14.225	(0.918)	142230	23.4423	23.44	
\$ 55 2,4,6-Tribromophenol	330		14.425	14.422	(1.098)	60950	48.9200	48.92	
56 4-Bromophenyl-phenylether	248		14.799	14.796	(0.955)	69325	26.3659	26.37	
57 Hexachlorobenzene	284		15.018	15.021	(0.969)	71602	25.0225	25.02	
58 Pentachlorophenol	266		15.322	15.320	(0.988)	123526	64.6202	64.62	
* 59 Phenanthrene-d10	188		15.504	15.501	(1.000)	279912	20.0000		
60 Phenanthrene	178		15.541	15.539	(1.002)	291078	25.2279	25.23	
61 Anthracene	178		15.610	15.608	(1.007)	281696	24.4078	24.41	
62 Carbazole	167		15.899	15.897	(1.025)	241668	24.3600	24.36	
63 Di-n-butylphthalate	149		16.599	16.596	(1.071)	351990	28.3336	28.33	
64 Fluoranthene	202		17.475	17.472	(1.127)	360990	27.6828	27.68	
65 Pyrene	202		17.832	17.830	(0.900)	366825	23.4380	23.44	
\$ 66 Terphenyl-d14	244		18.142	18.140	(0.915)	354277	29.8949	29.89	
67 Butylbenzylphthalate	149		19.018	19.016	(0.960)	159669	26.0587	26.06	
68 Benzo(a)anthracene	228		19.793	19.790	(0.999)	351925	25.4619	25.46	
* 69 Chrysene-d12	240		19.819	19.817	(1.000)	249281	20.0000		
70 3,3'-Dichlorobenzidine	252		19.809	19.801	(0.999)	279411	67.4932	67.49	
71 Chrysene	228		19.862	19.854	(1.002)	297733	23.4485	23.45	
72 bis(2-Ethylhexyl)phthalate	149		20.006	20.004	(0.955)	203508	26.4474	26.45	
* 134 Di-n-octylphthalate-d4	153		20.941	20.939	(1.000)	332613	20.0000		
73 Di-n-octylphthalate	149		20.946	20.949	(1.000)	364457	26.2546	26.25	
74 Benzo(b)fluoranthene	252		21.448	21.446	(0.976)	359621	28.2691	28.27	
75 Benzo(k)fluoranthene	252		21.486	21.483	(0.977)	314275	24.6554	24.66	
76 Benzo(a)pyrene	252		21.902	21.900	(0.996)	307007	25.7168	25.72	
* 77 Perylene-d12	264		21.982	21.980	(1.000)	257694	20.0000		
78 Indeno(1,2,3-cd)pyrene	276		23.558	23.550	(1.072)	399636	22.9024	22.90	
79 Dibenzo(a,h)anthracene	278		23.579	23.572	(1.073)	338323	23.1780	23.18	
80 Benzo(g,h,i)perylene	276		24.001	23.988	(1.092)	326037	21.7846	21.78	
90 N-Nitrosodimethylamine	74		3.732	3.714	(0.453)	121084	72.4109	72.41	
103 Pyridine	79		3.689	3.666	(0.448)	2856	0.90742	0.9074	
105 1-methylnaphthalene	141		11.594	11.592	(1.128)	130708	25.8961	25.90	
111 Azobenzene (1,2-DP-Hydrazine)	77		14.275	14.268	(0.921)	162949	22.8653	22.87	
187 Total Benzofluoranthenes	252		21.486	21.483	(0.977)	639661	52.8391	52.84	
144 alpha-Terpineol	59		Compound Not Detected.						

Compounds	QUANT	SIG					CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
=====	=====		=====	=====	=====	=====	(ug/mL)	(ug/mL)

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 13-JUL-2022
 Lab File ID: NT622071324.D Calibration Time: 22:06
 Lab Smp Id: BKG0169-BS1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220713A.b\SW84620220516.m
 Misc Info: 22-

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	49157	24579	98314	66267	34.81
27 Naphthalene-d8	173237	86619	346474	222815	28.62
42 Acenaphthene-d10	116765	58383	233530	146427	25.40
59 Phenanthrene-d10	233112	116556	466224	279912	20.08
69 Chrysene-d12	196434	98217	392868	249281	26.90
134 Di-n-octylphthala	268008	134004	536016	332613	24.11
77 Perylene-d12	200282	100141	400564	257694	28.67

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.24	7.74	8.74	8.24	0.03
27 Naphthalene-d8	10.27	9.77	10.77	10.28	0.02
42 Acenaphthene-d10	13.13	12.63	13.63	13.13	0.06
59 Phenanthrene-d10	15.50	15.00	16.00	15.50	0.02
69 Chrysene-d12	19.82	19.32	20.32	19.82	0.01
134 Di-n-octylphthala	20.94	20.44	21.44	20.94	0.01
77 Perylene-d12	21.98	21.48	22.48	21.98	0.01

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

REVIEW SUMMARY FOR FILE - NT622071324.D

Lab ID: BKG0169-BS1
nt6.i, SW84620220516.m, 13-JUL-2022 23:47

RT CO-ELUTION COMPOUNDS

13.133 Acenaphthene-d10 and 3-Nitroaniline

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, LLMDL.sub = 0.2000

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

Data File: \\target\share\chem3\nt6.1\20220713A,B\NT622071325.D

Date: 14-JUL-2022 00:21

Client ID:

Sample Info: BK00169-BSM1,

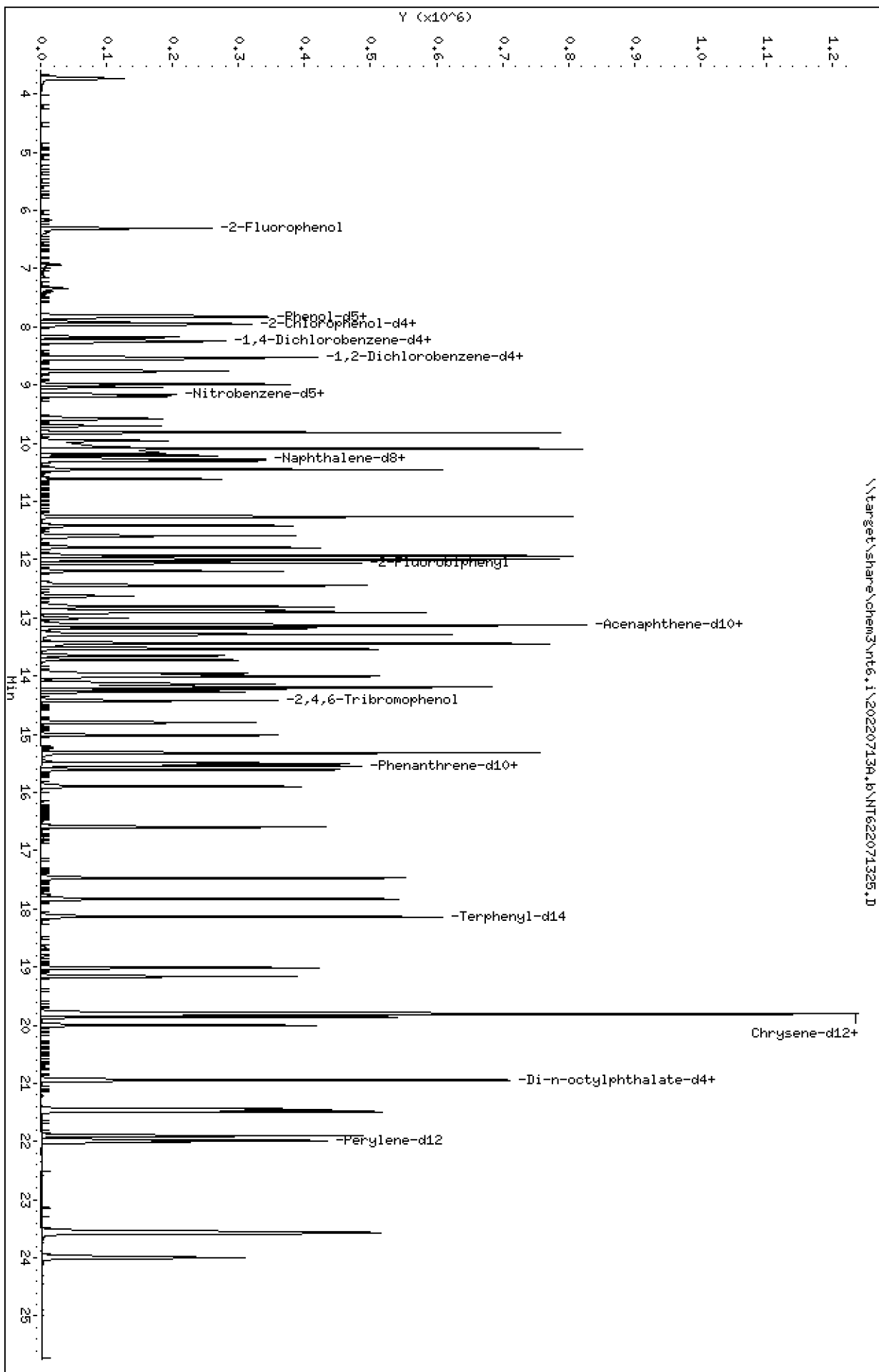
Column phase: ZB-5msi

Instrument: nt6.1

Operator: JZ

Column diameter: 0.32

\\target\share\chem3\nt6.1\20220713A,B\NT622071325.D



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

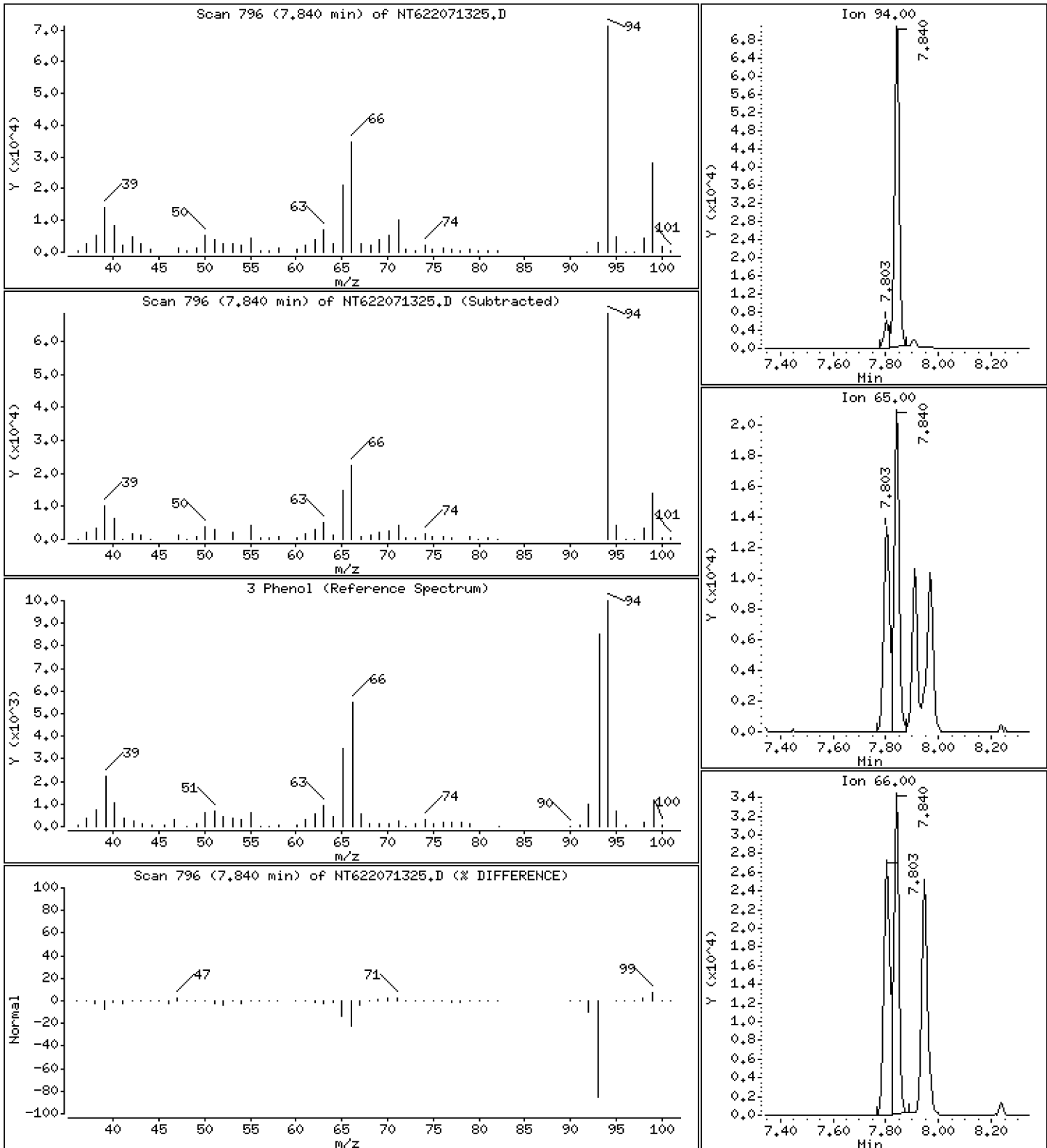
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

3 Phenol

Concentration: 18.24 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

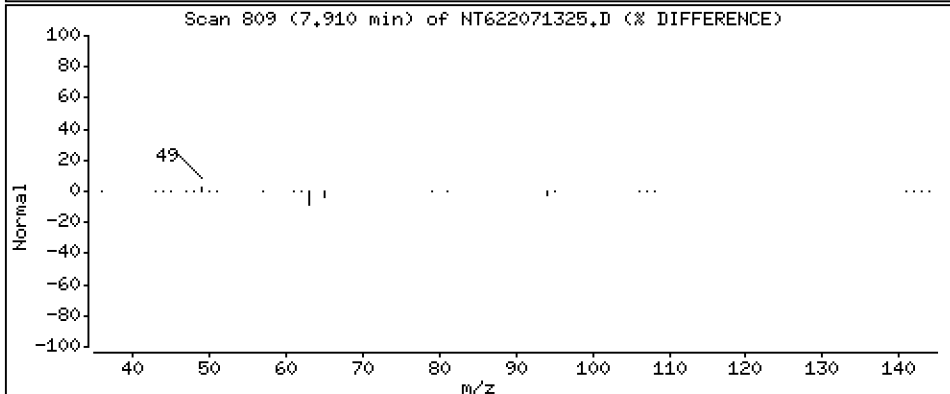
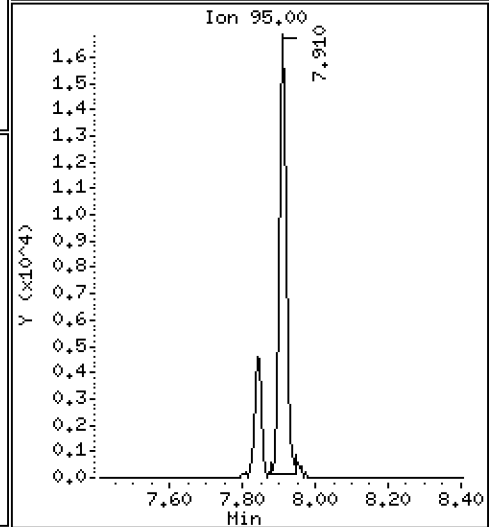
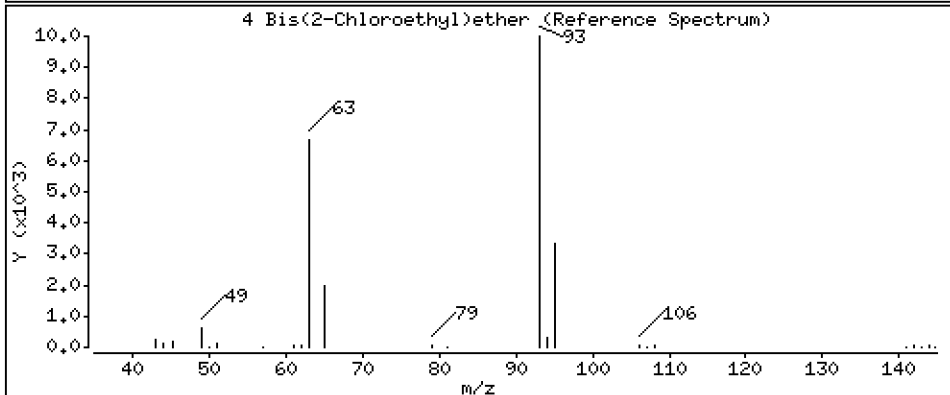
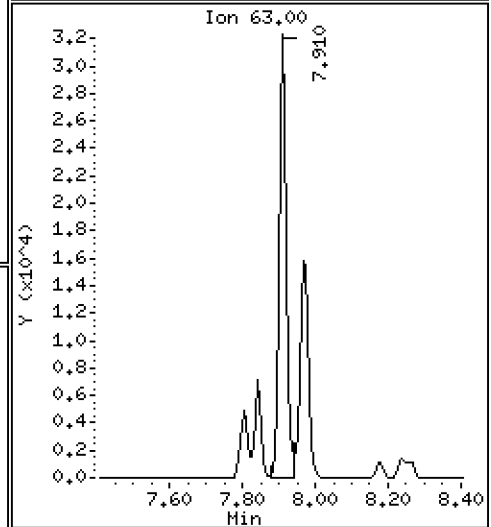
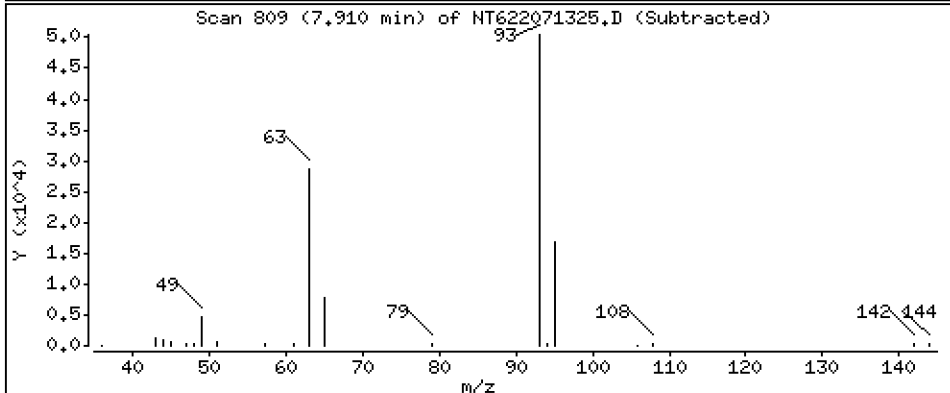
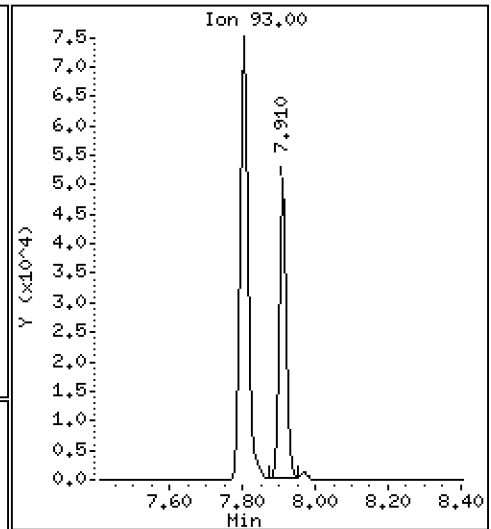
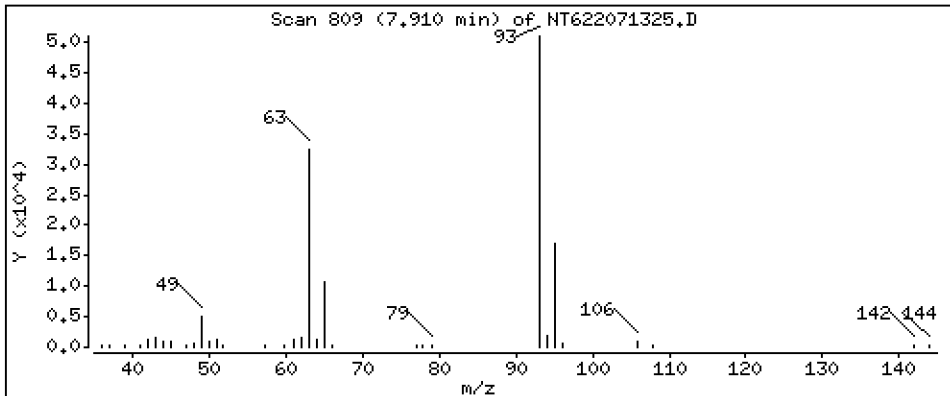
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

4 Bis(2-Chloroethyl)ether

Concentration: 22.51 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

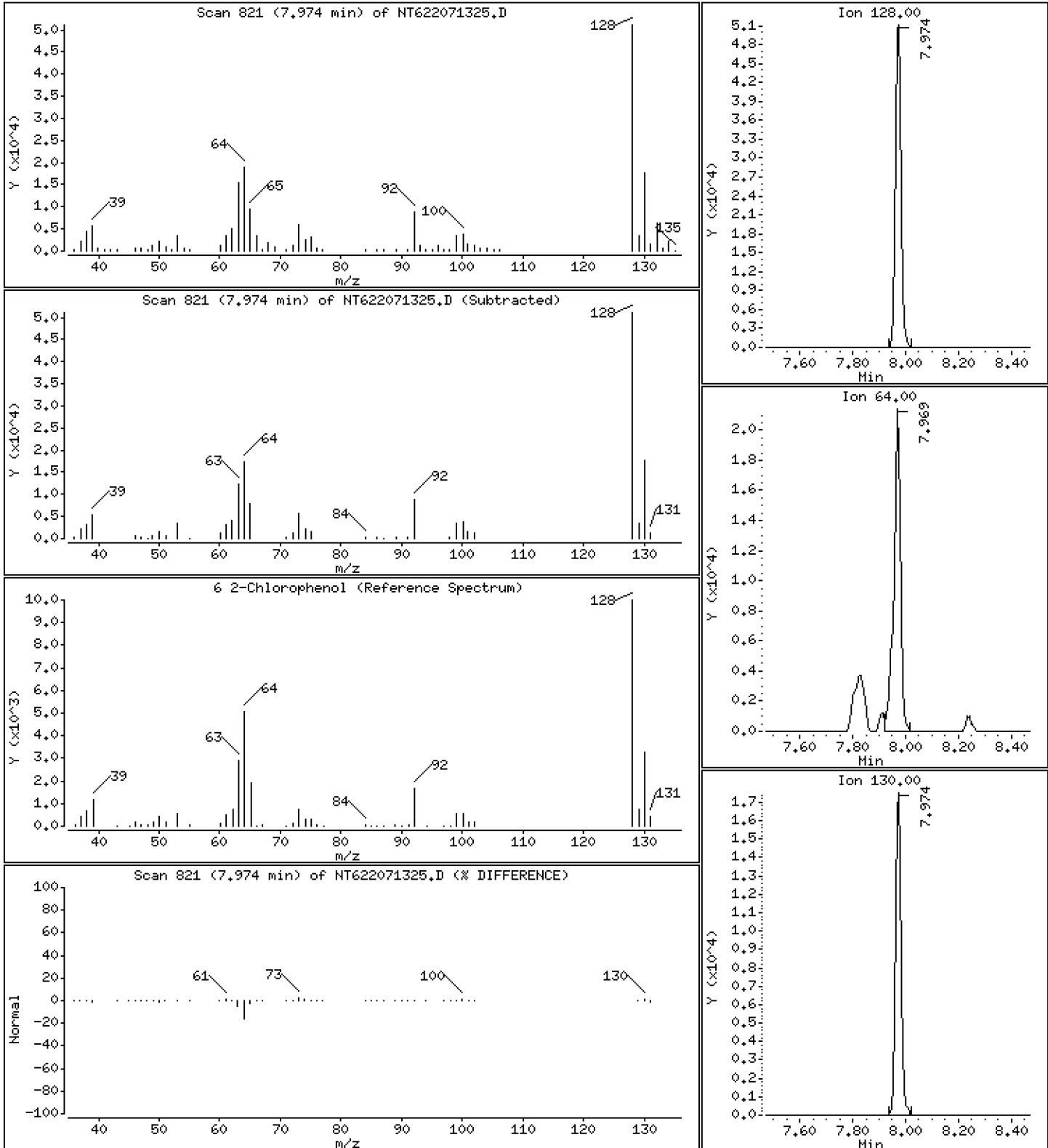
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

6 2-Chlorophenol

Concentration: 18.82 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

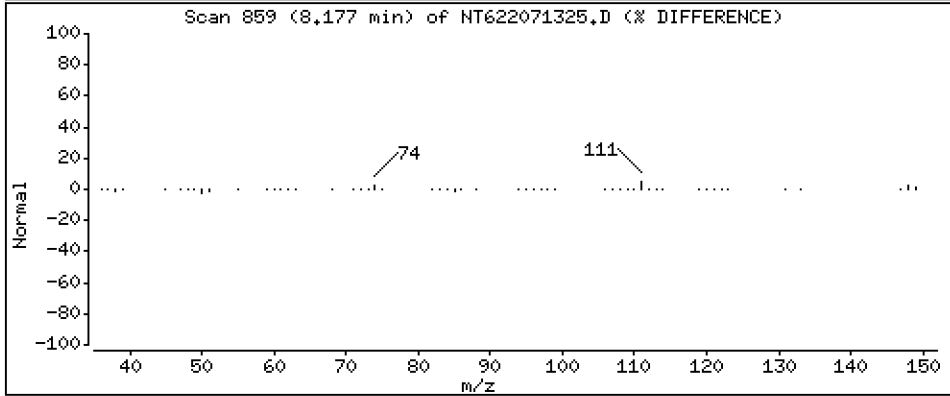
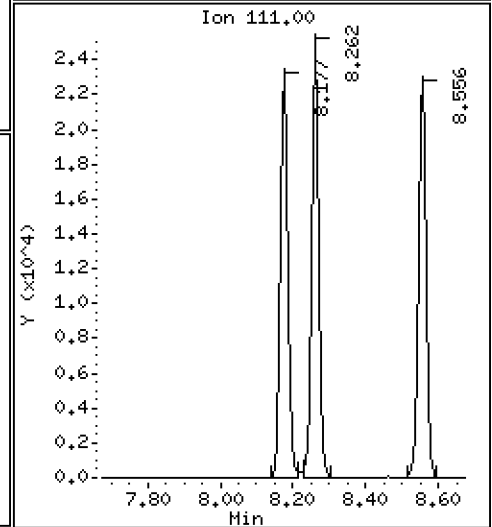
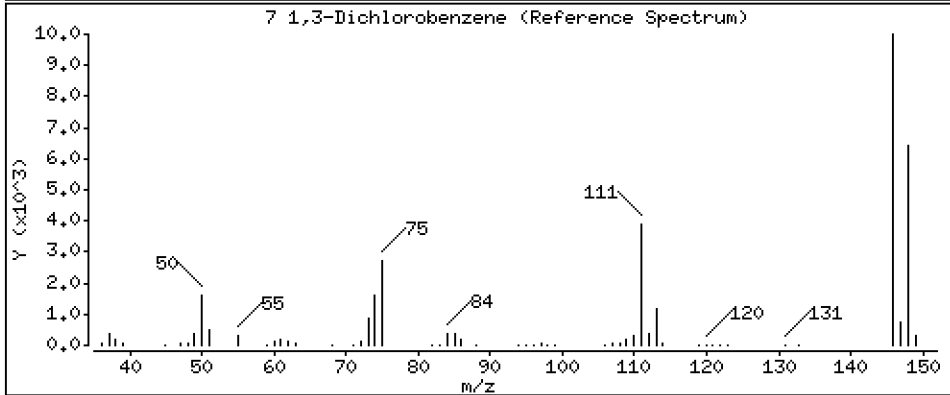
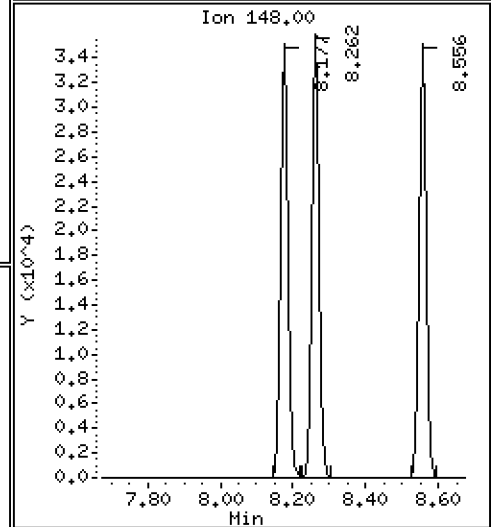
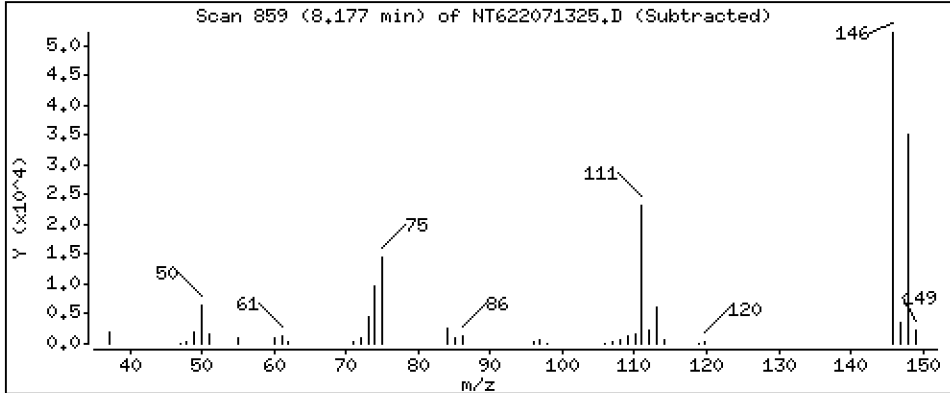
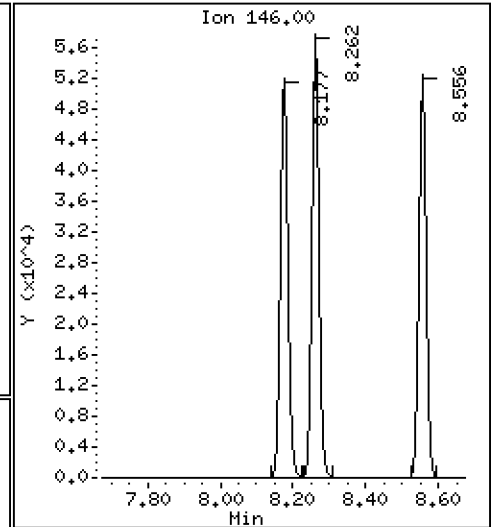
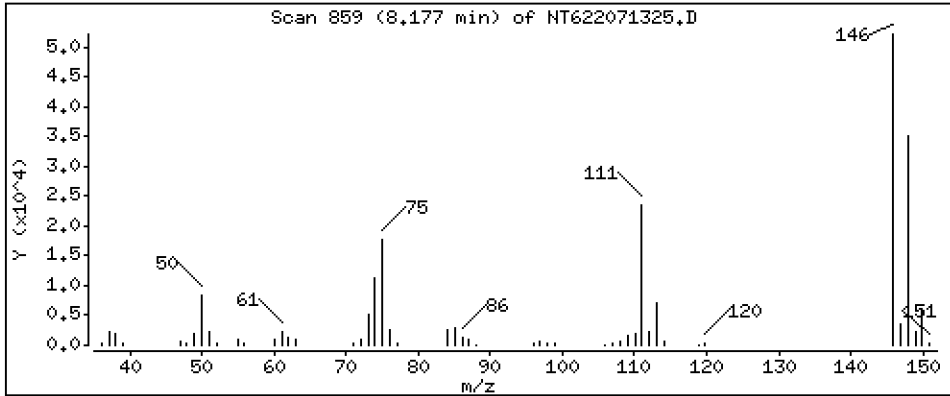
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

7 1,3-Dichlorobenzene

Concentration: 18.25 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

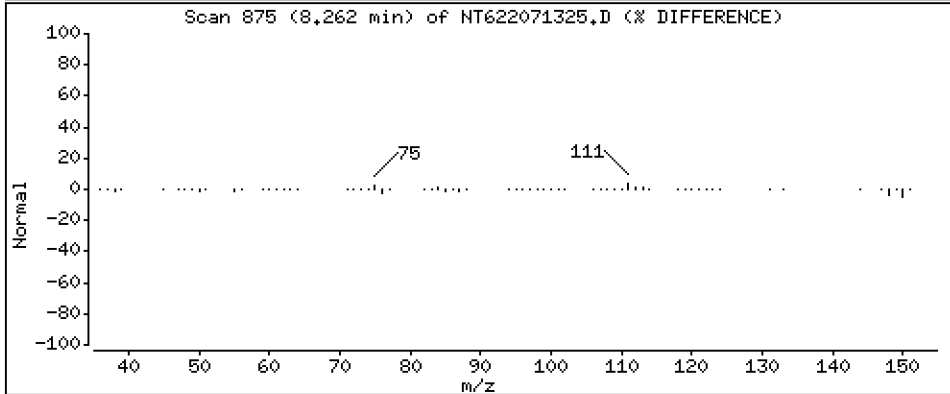
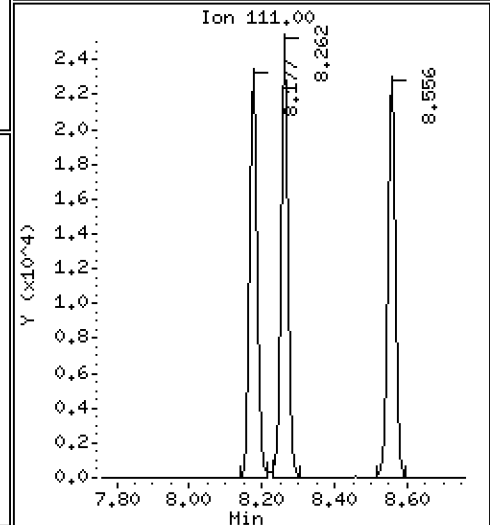
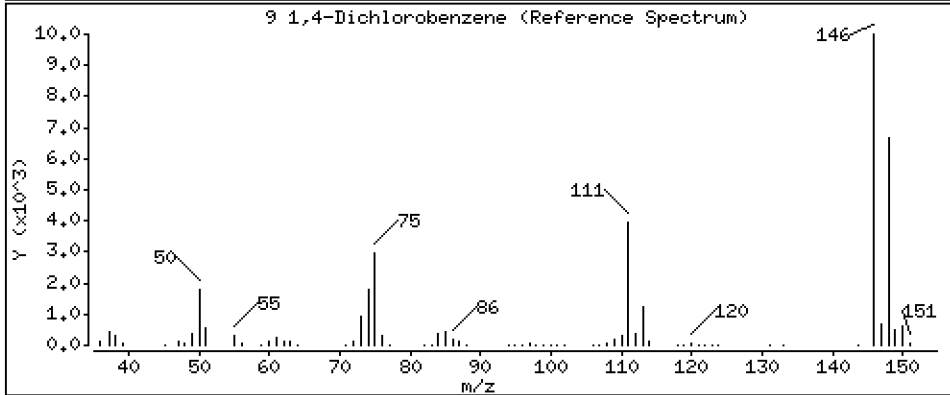
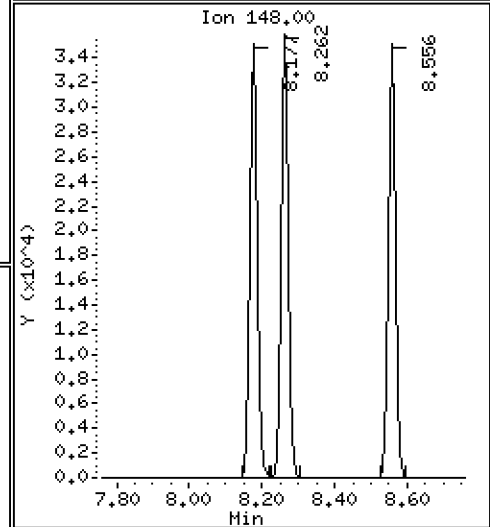
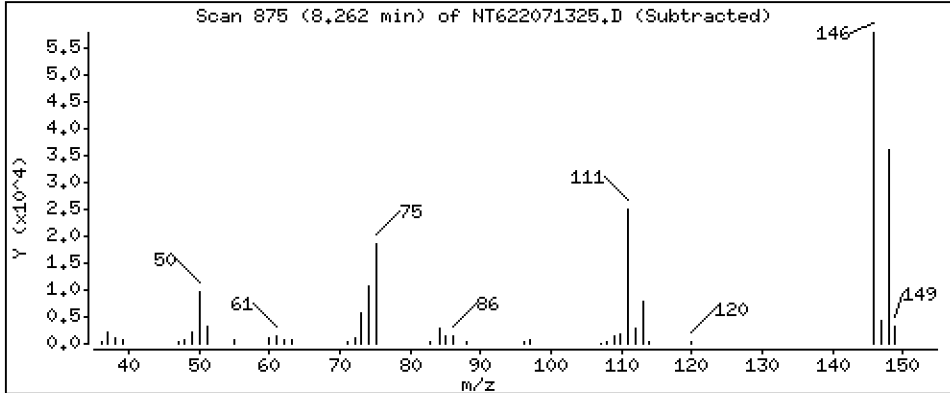
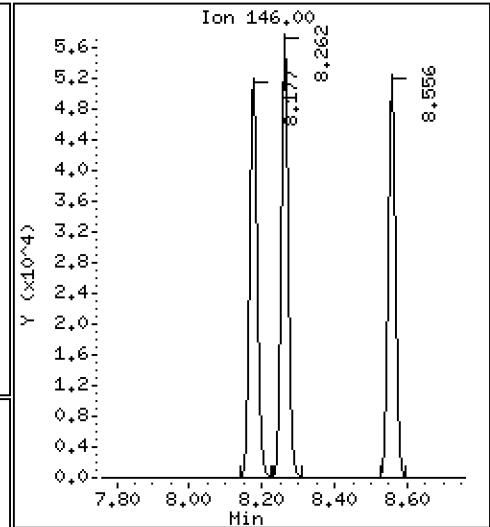
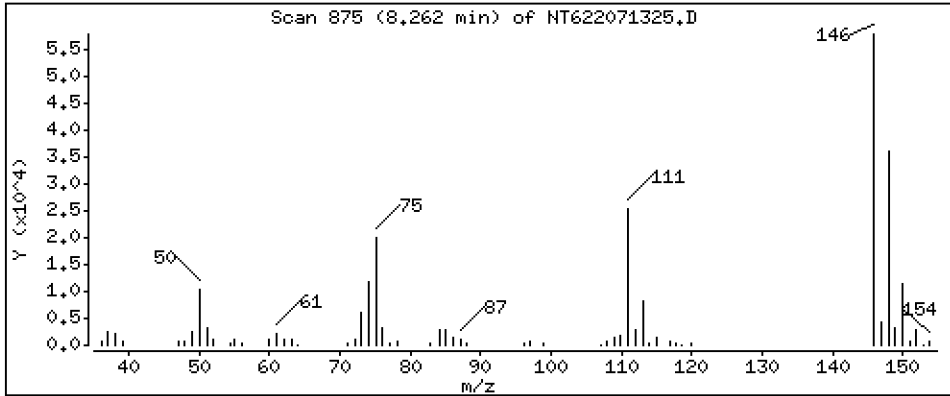
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

9 1,4-Dichlorobenzene

Concentration: 18.98 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

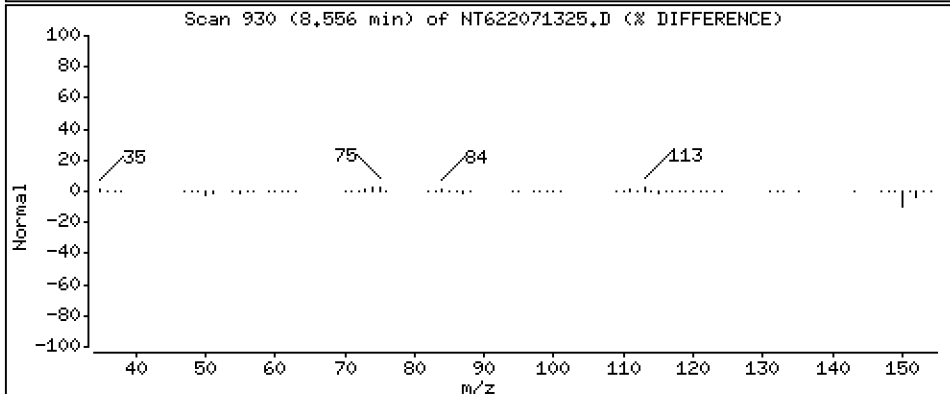
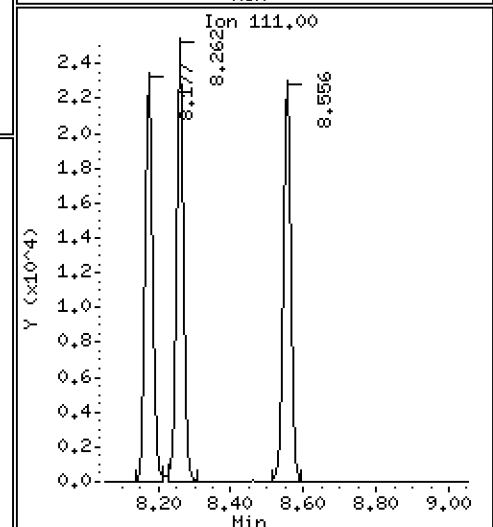
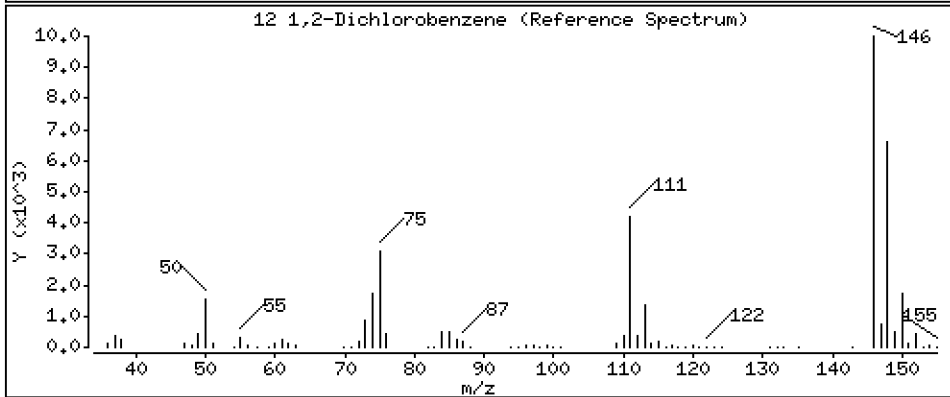
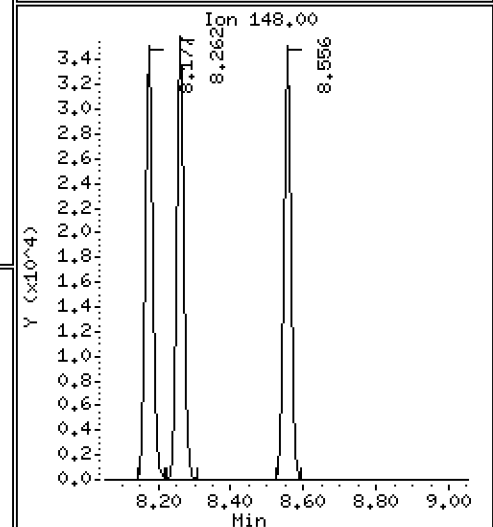
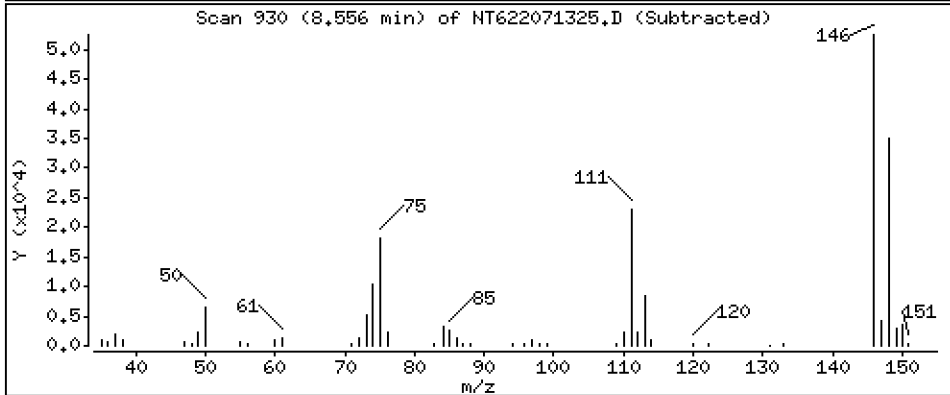
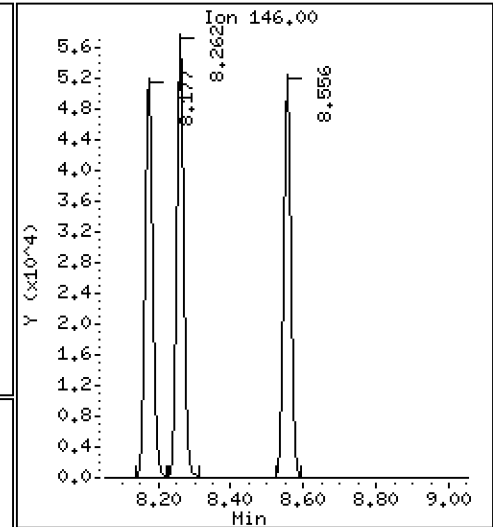
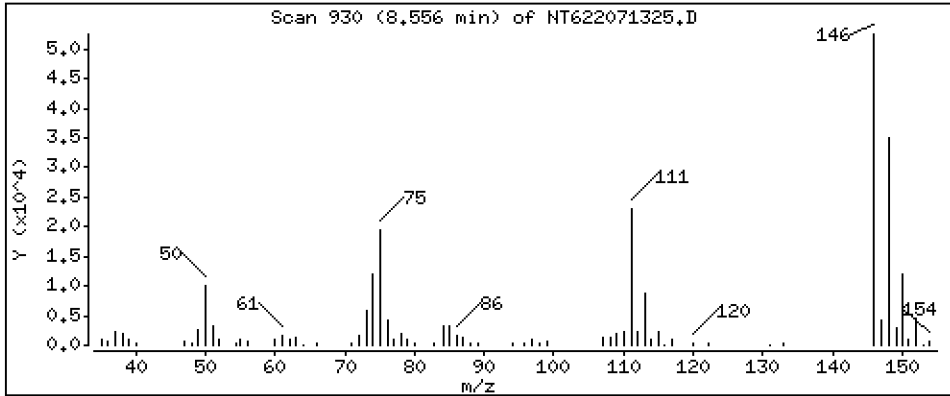
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

12 1,2-Dichlorobenzene

Concentration: 18.82 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

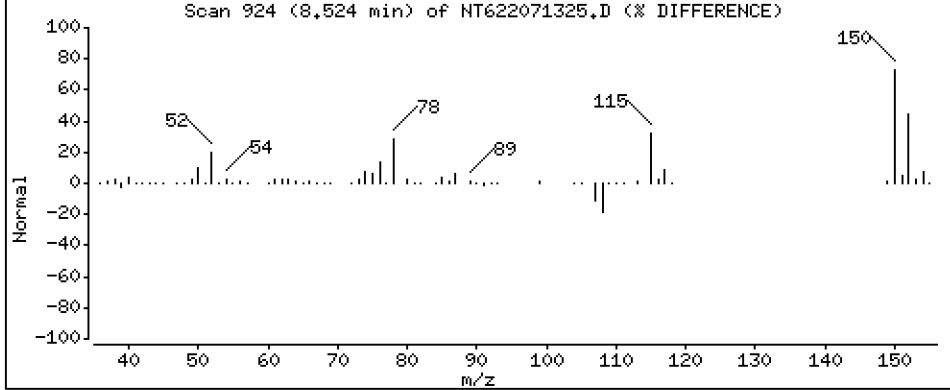
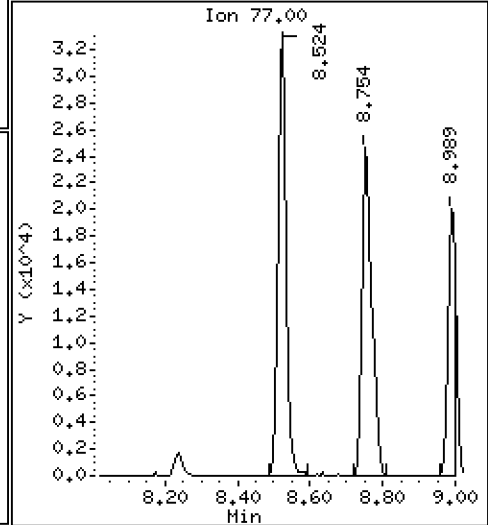
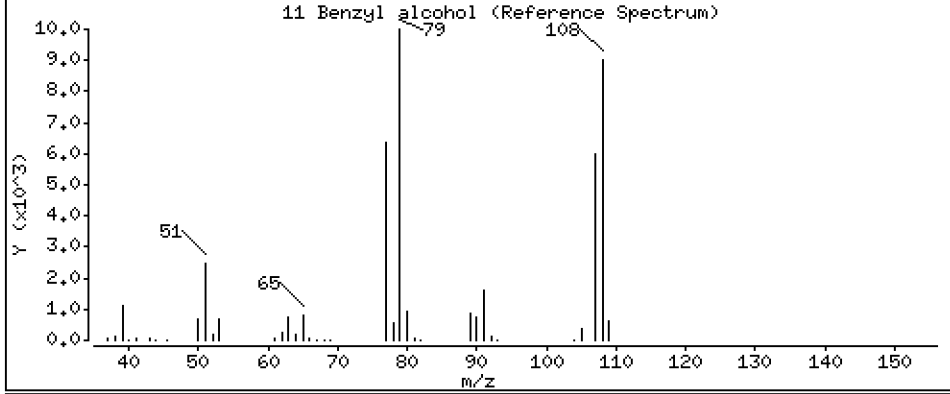
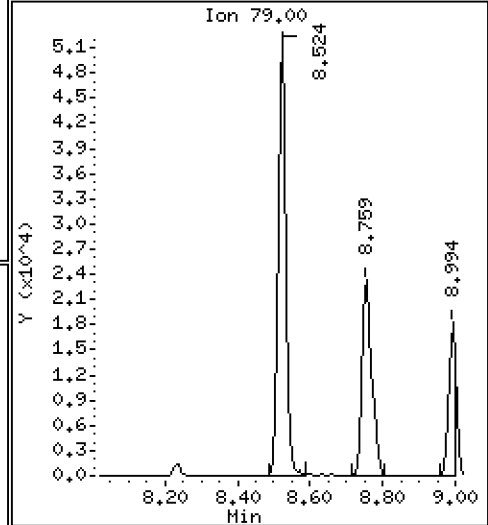
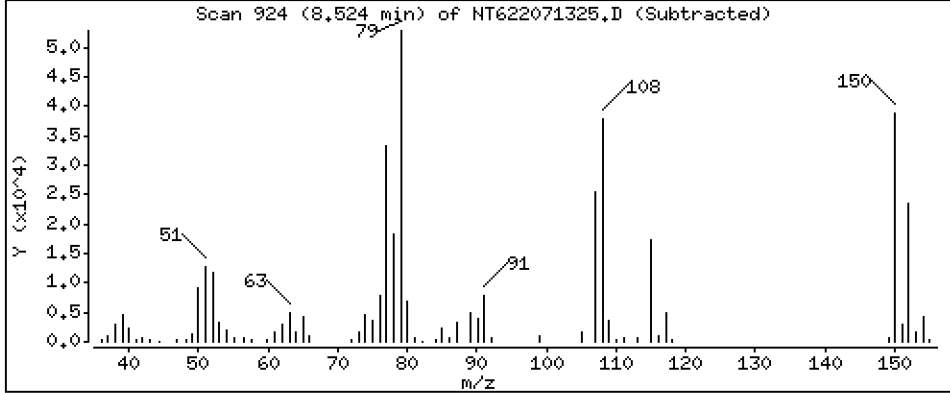
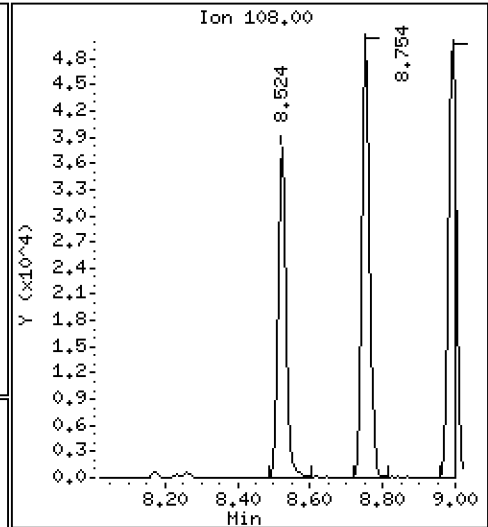
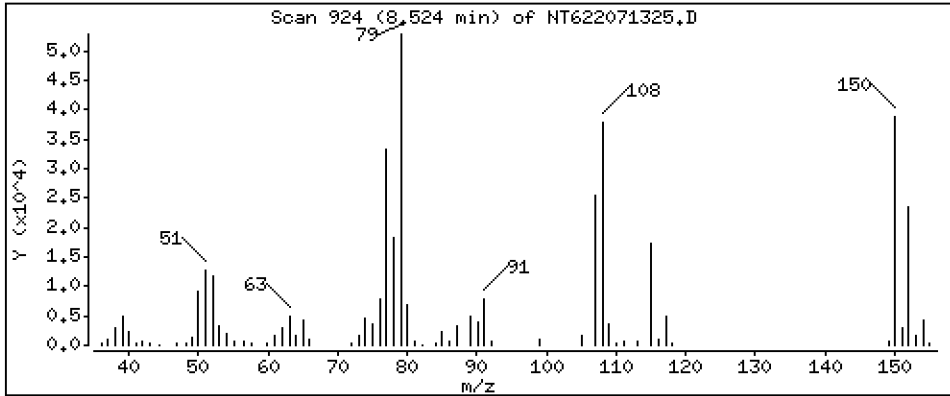
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

11 Benzyl alcohol

Concentration: 25.19 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

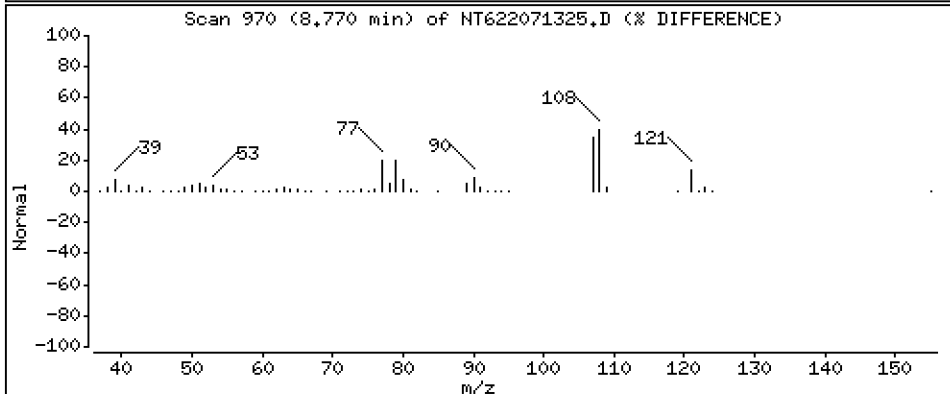
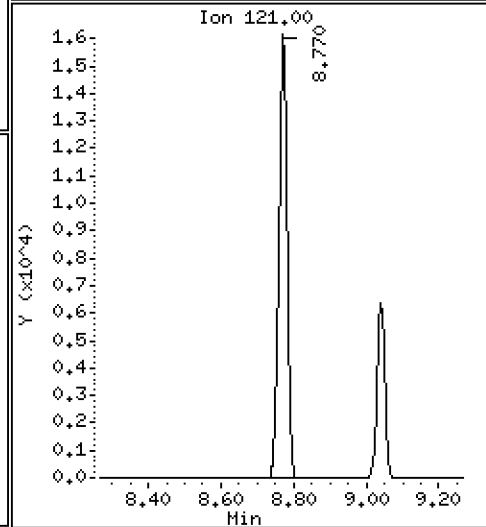
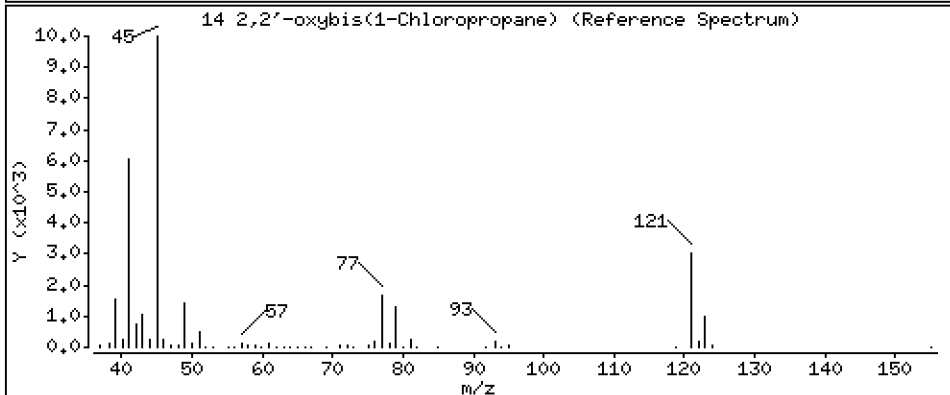
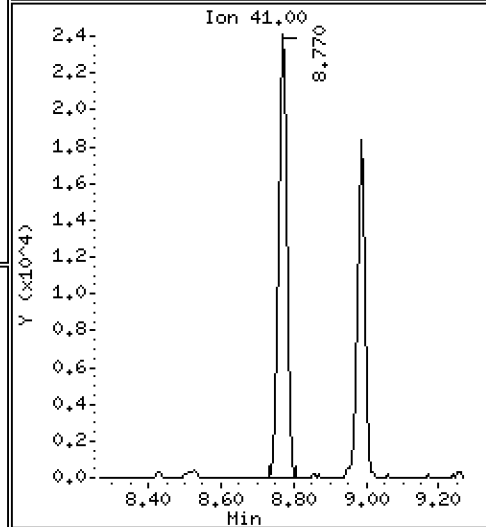
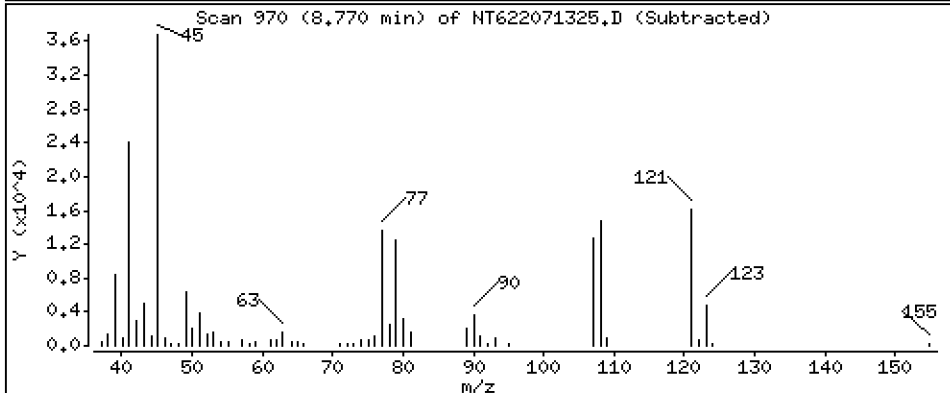
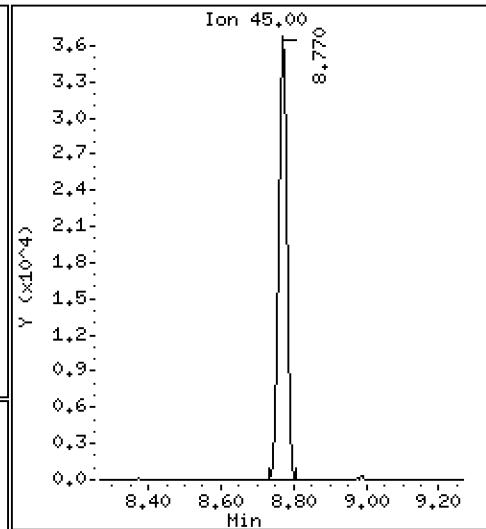
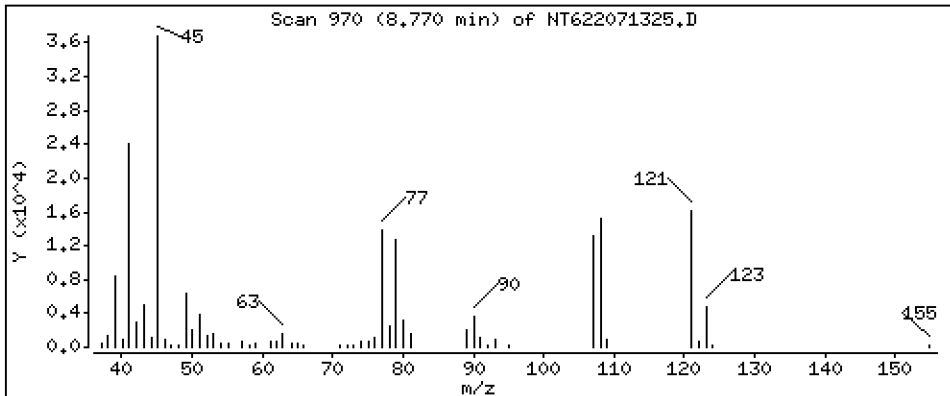
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

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

Concentration: 25.58 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

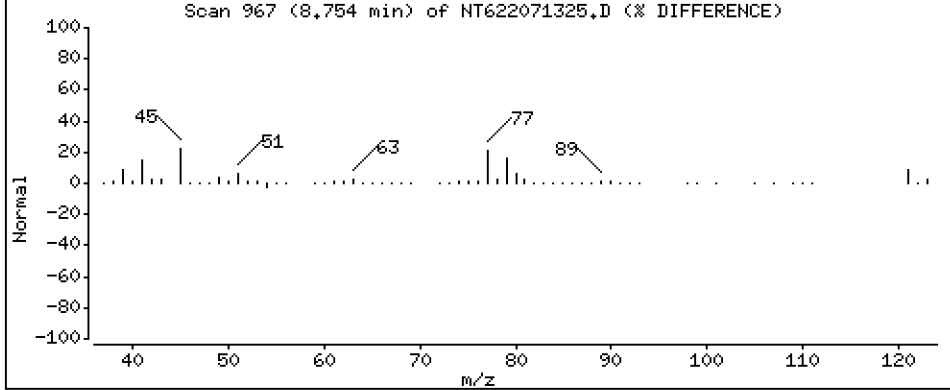
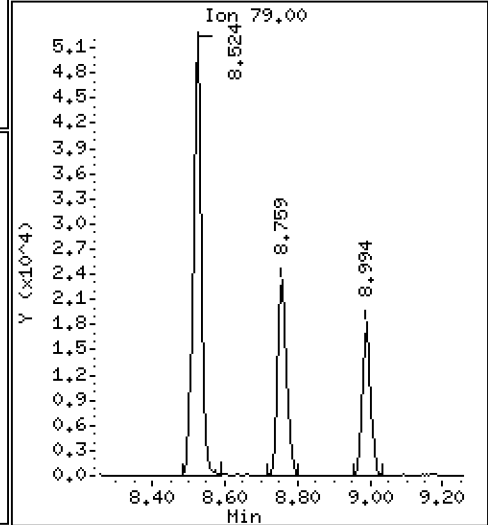
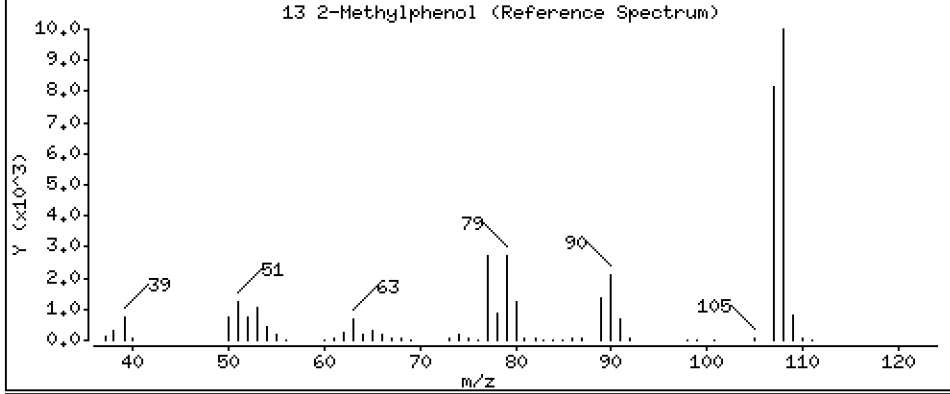
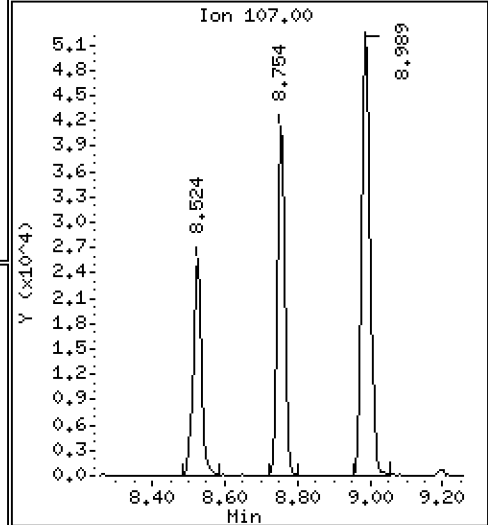
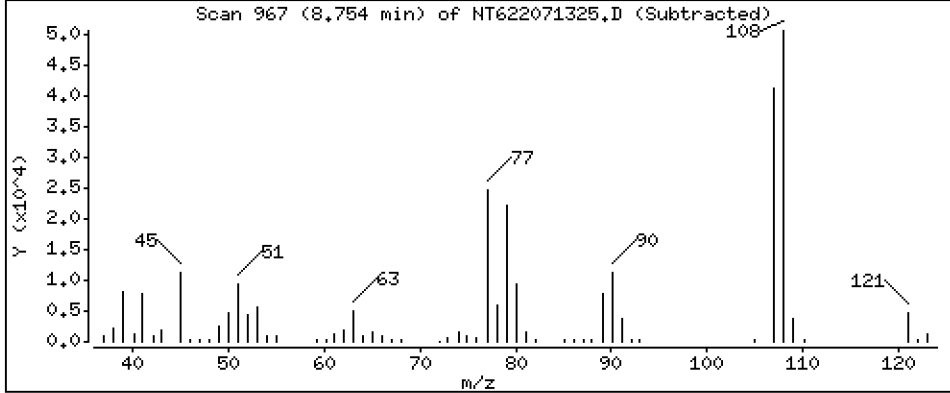
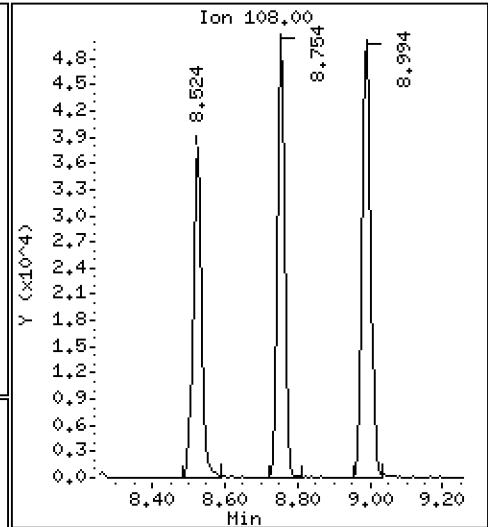
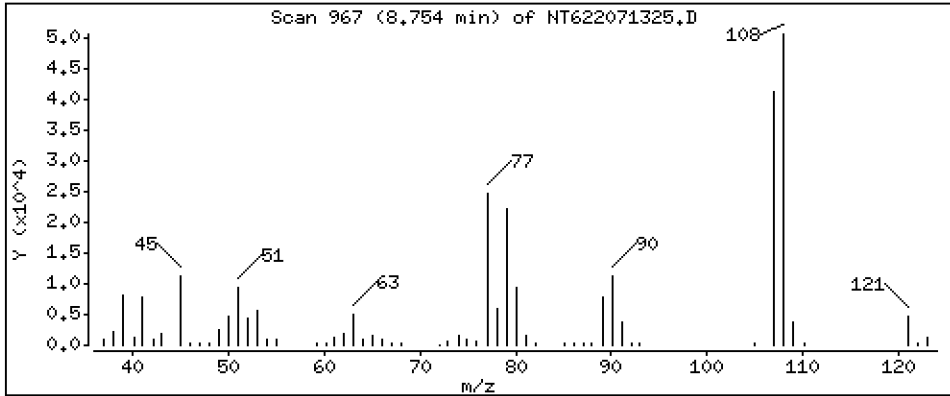
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

13 2-Methylphenol

Concentration: 21.06 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

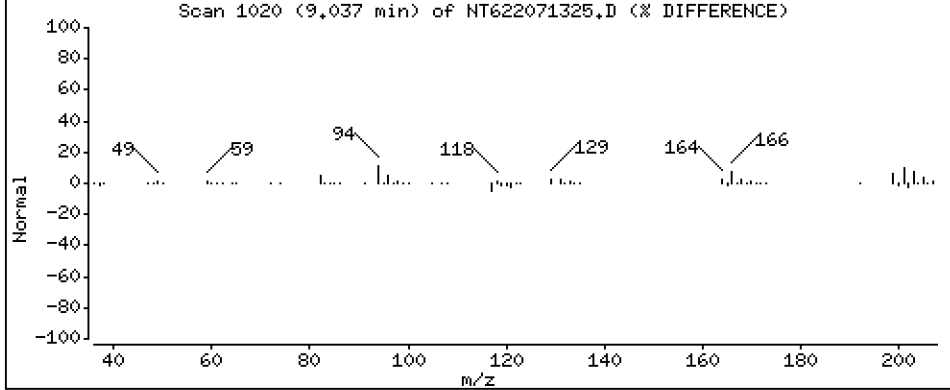
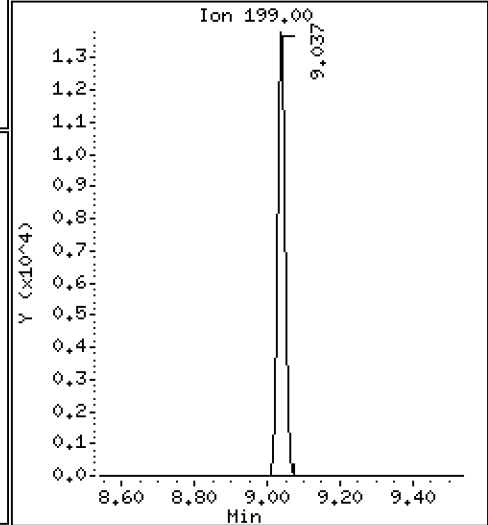
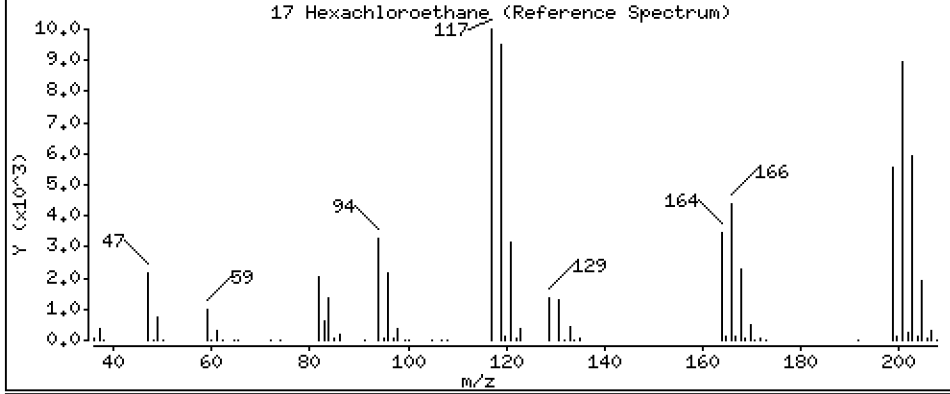
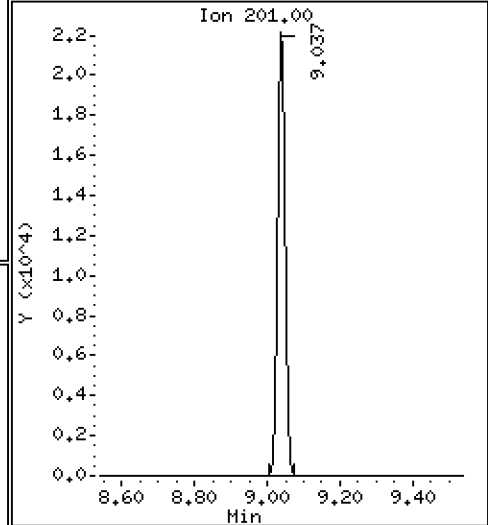
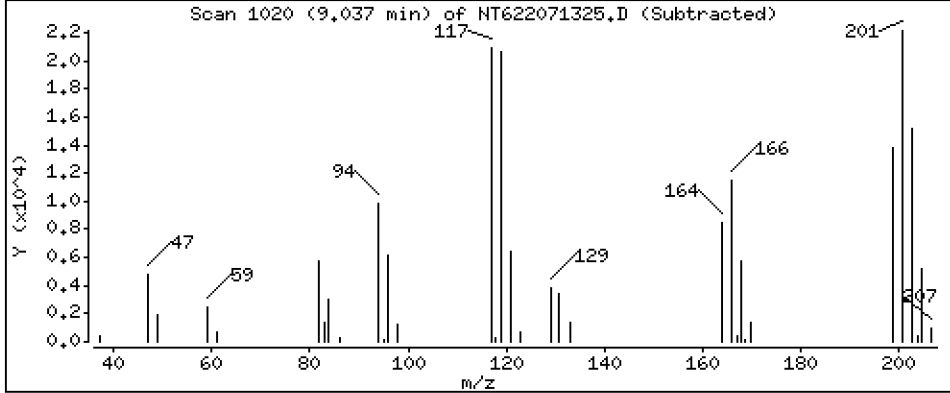
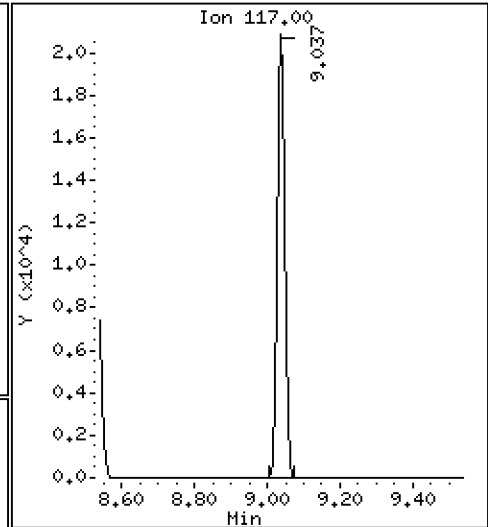
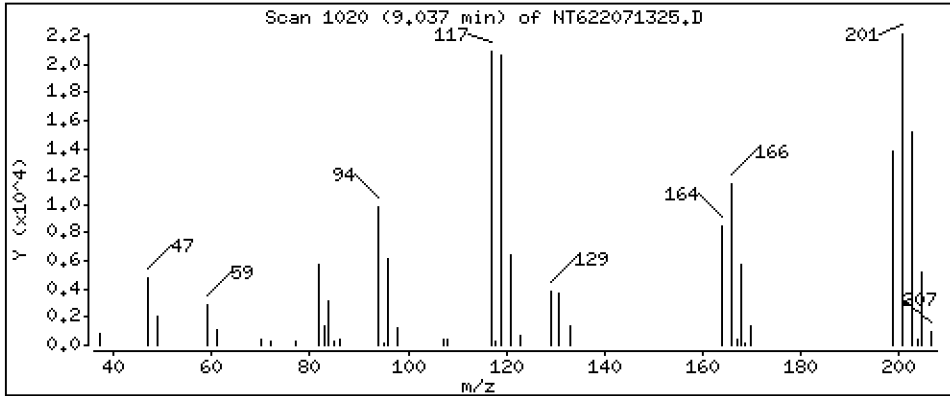
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

17 Hexachloroethane

Concentration: 18.24 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

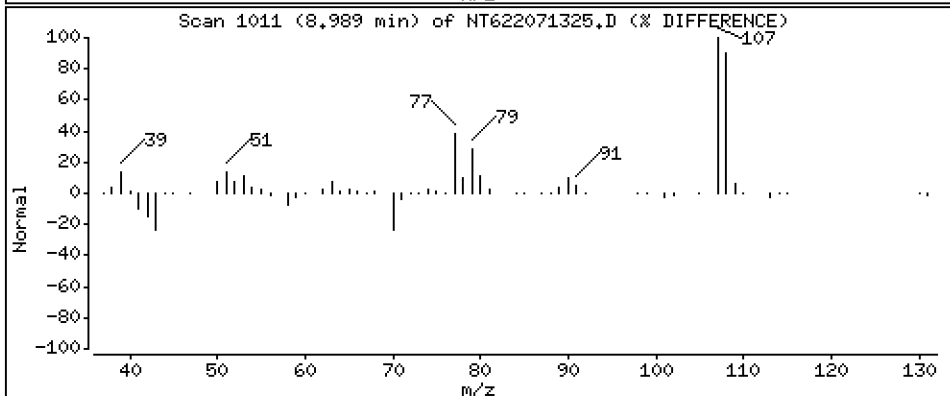
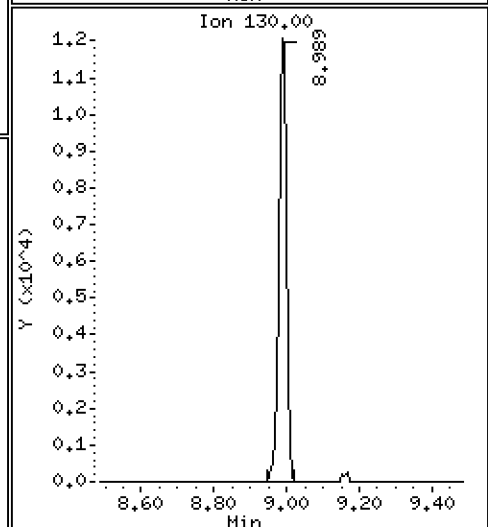
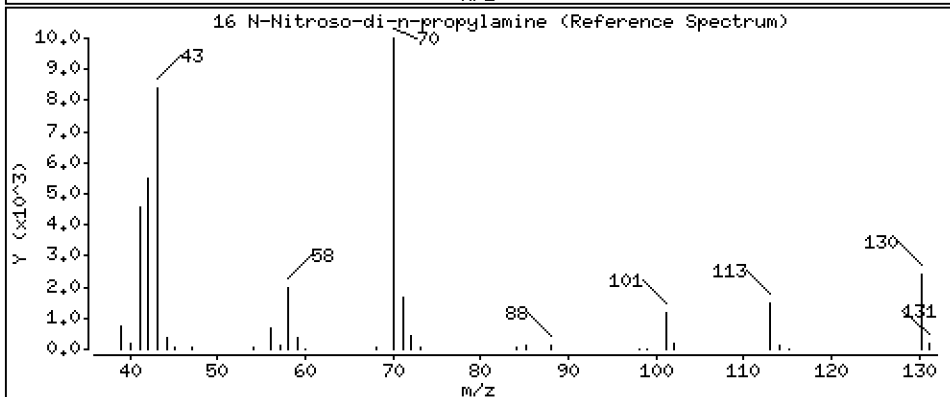
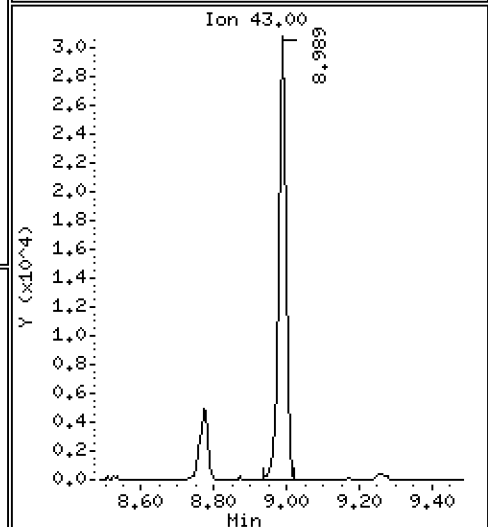
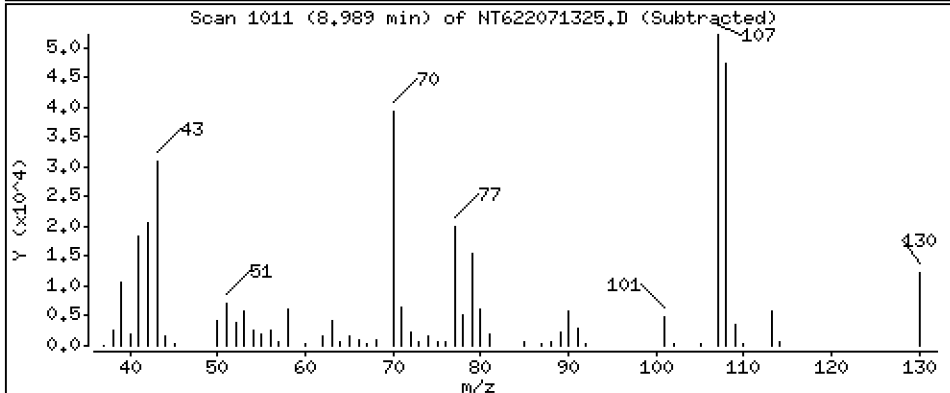
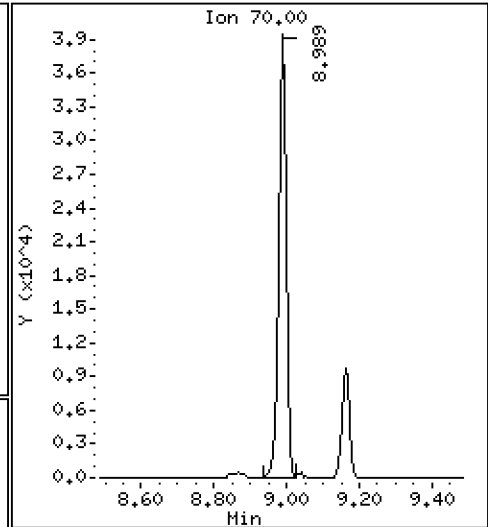
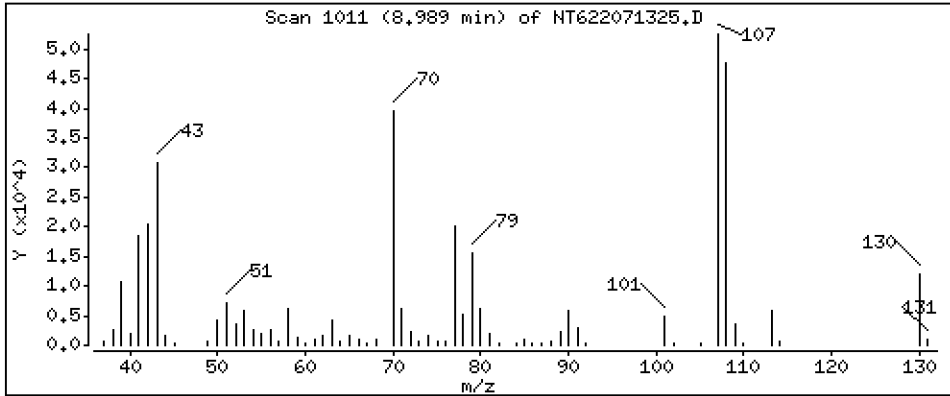
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

16 N-Nitroso-di-n-propylamine

Concentration: 25.48 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

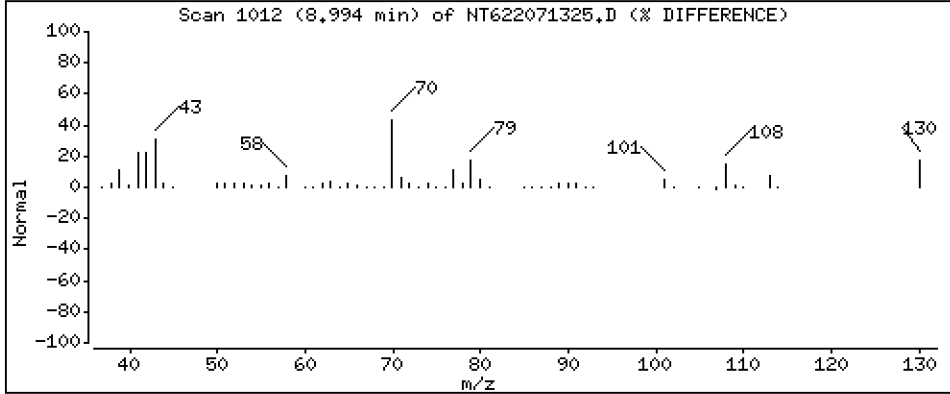
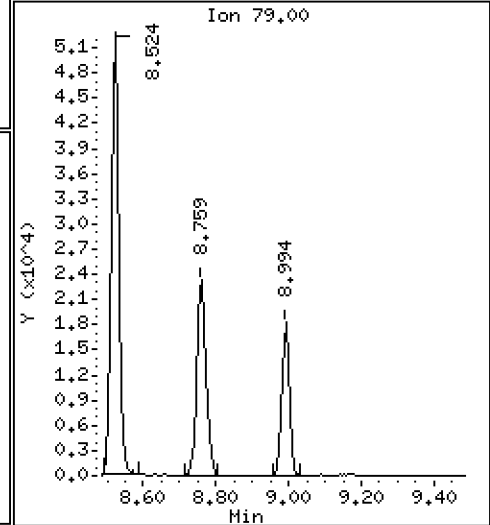
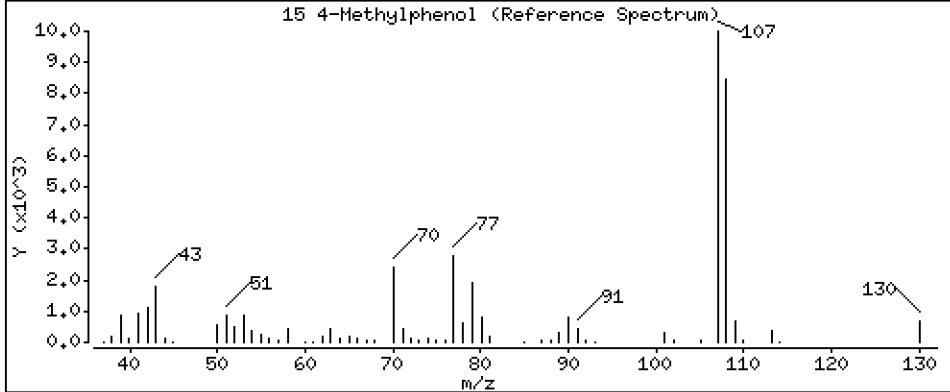
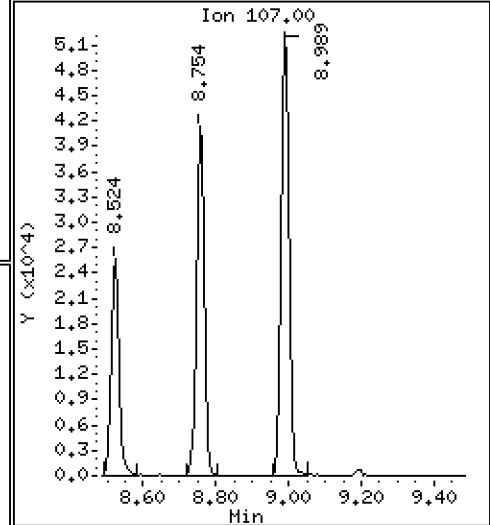
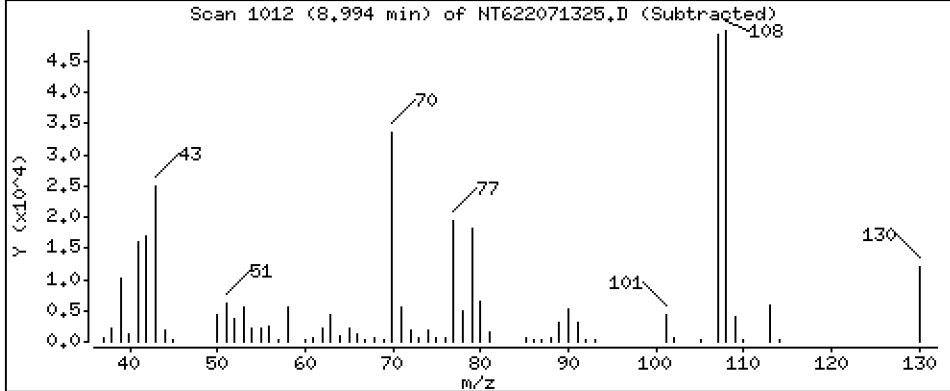
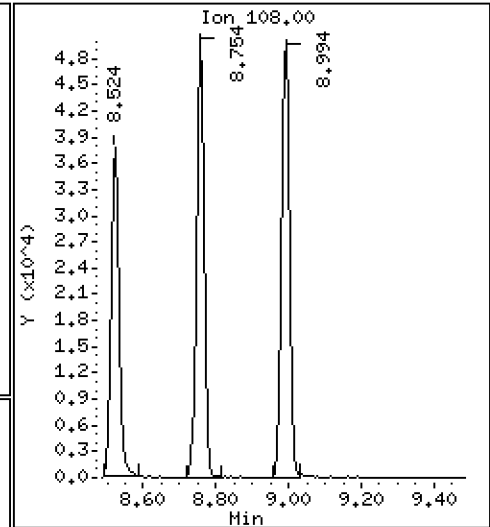
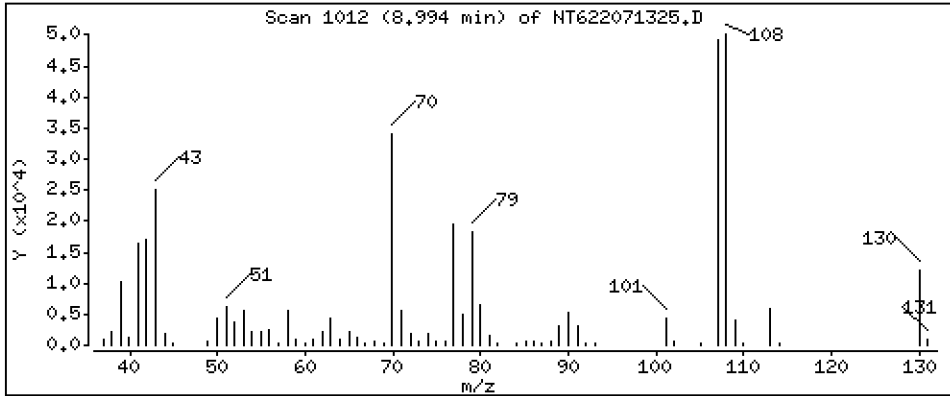
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

15 4-Methylphenol

Concentration: 21.85 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

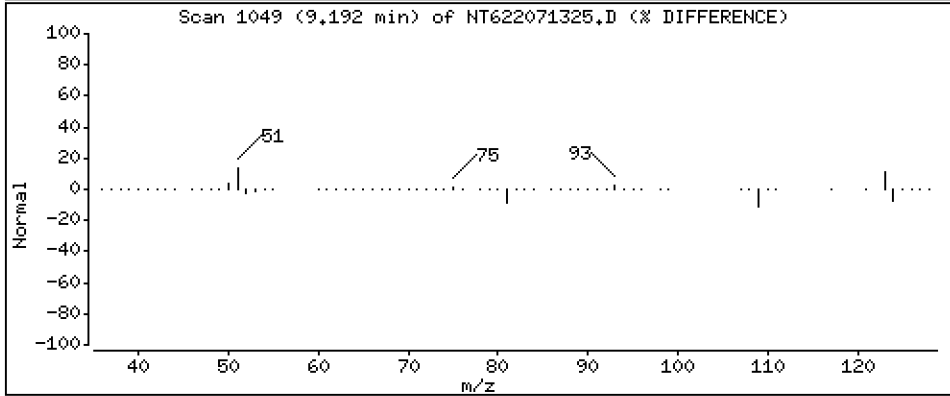
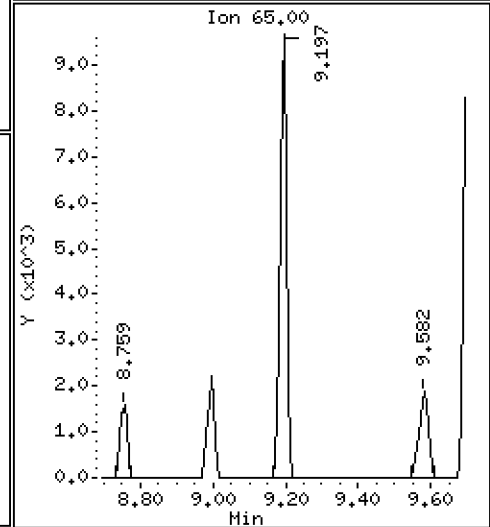
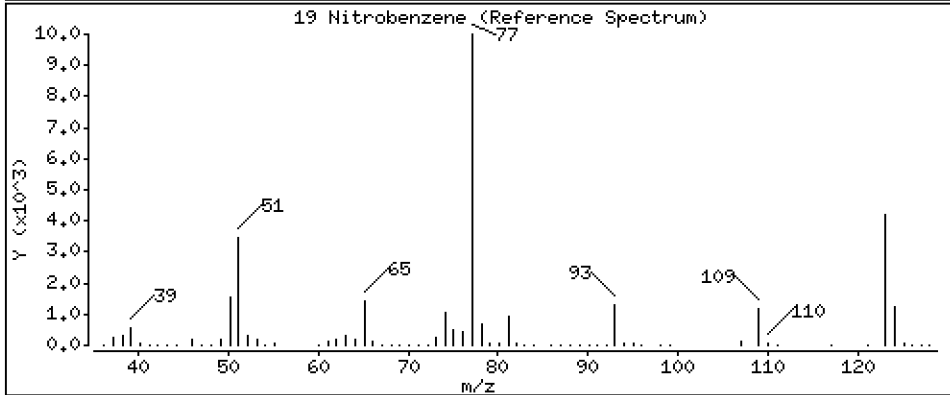
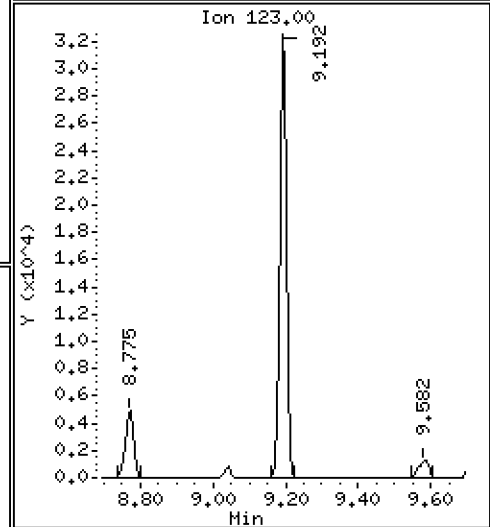
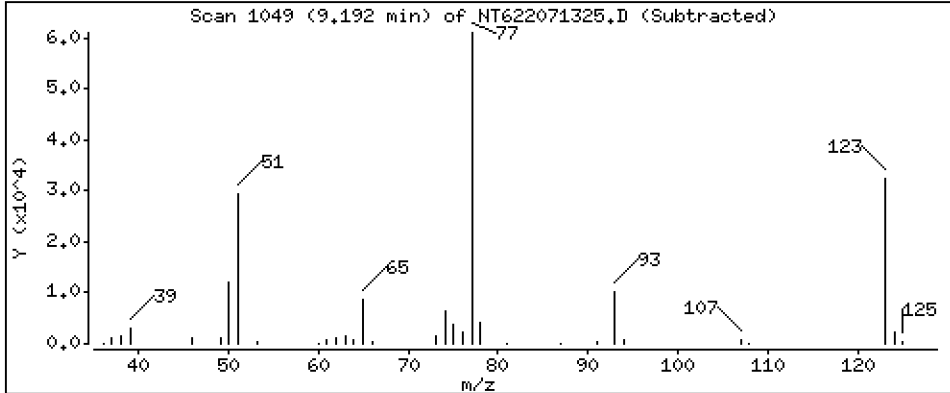
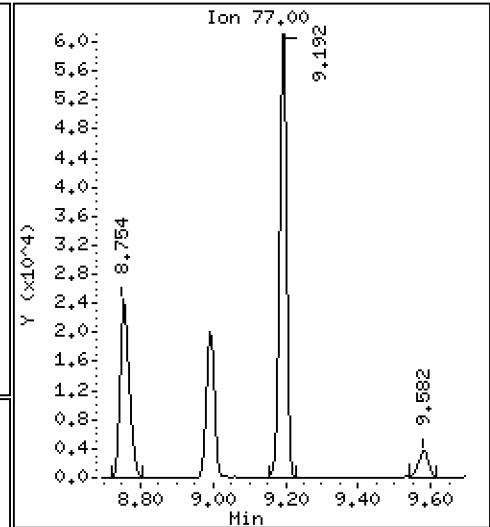
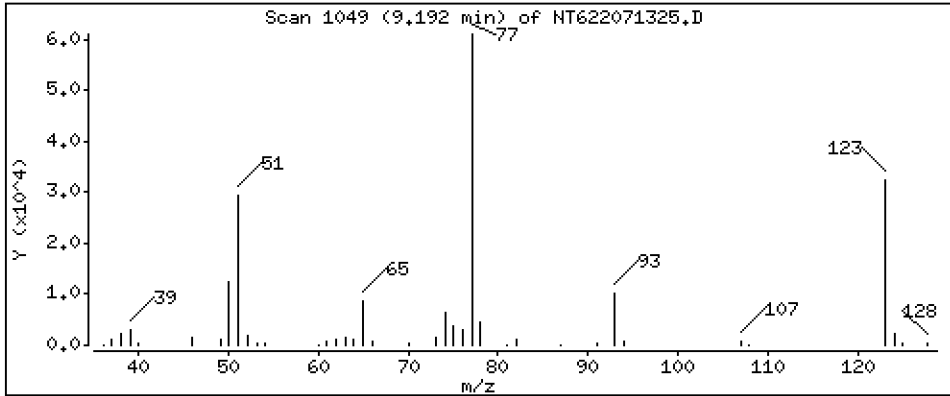
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

19 Nitrobenzene

Concentration: 24.57 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

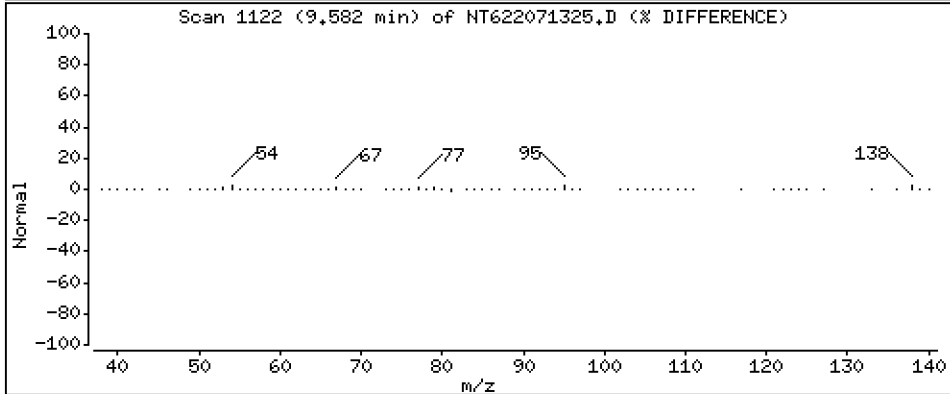
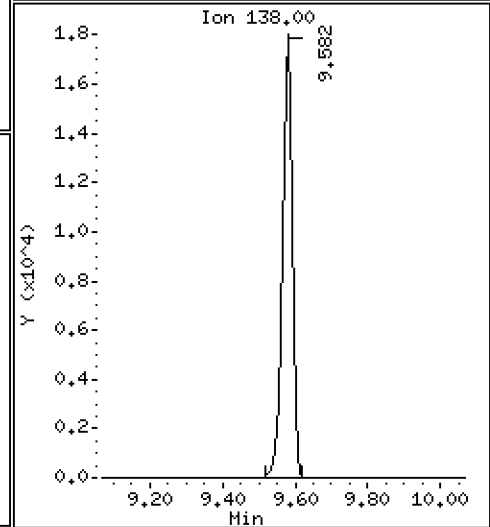
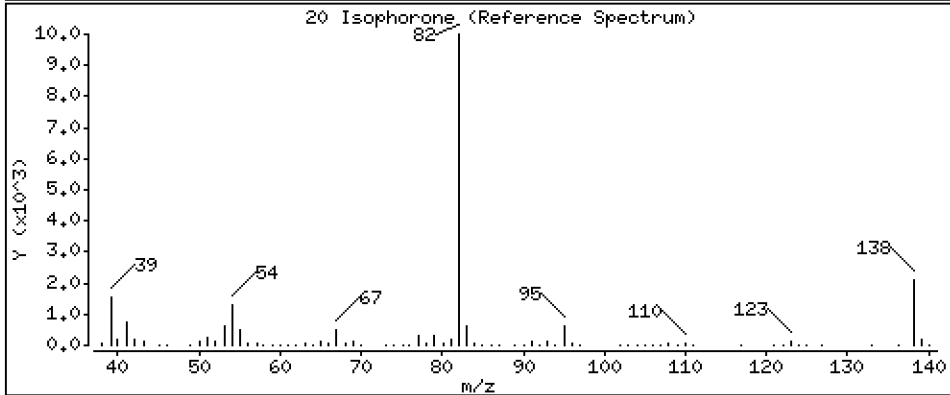
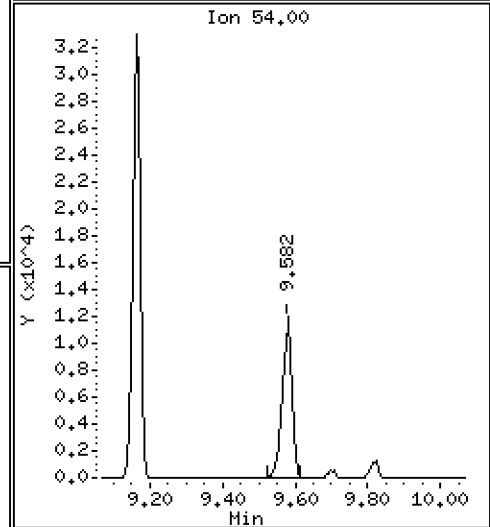
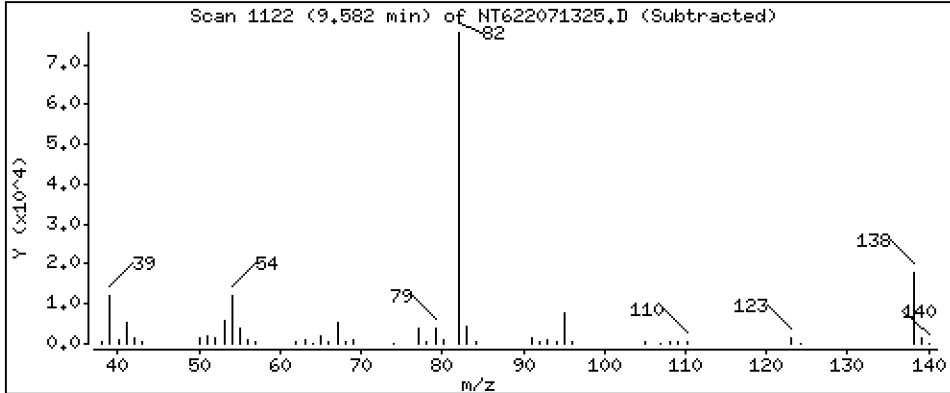
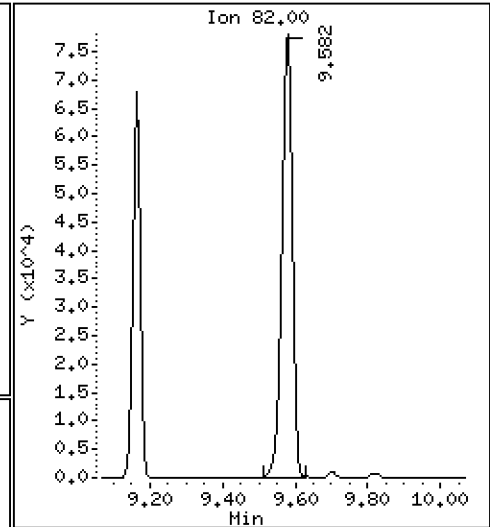
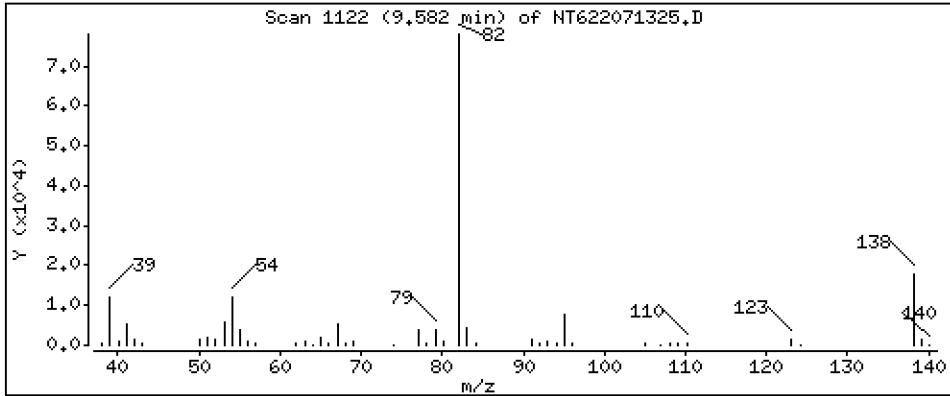
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

20 Isophorone

Concentration: 37.22 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

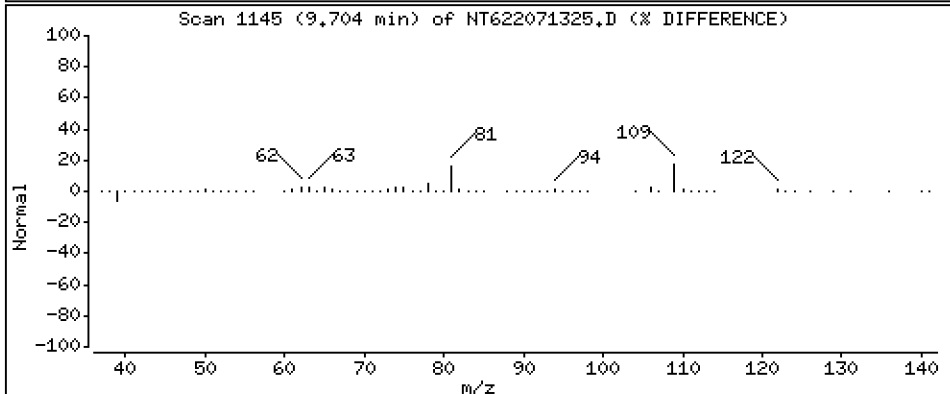
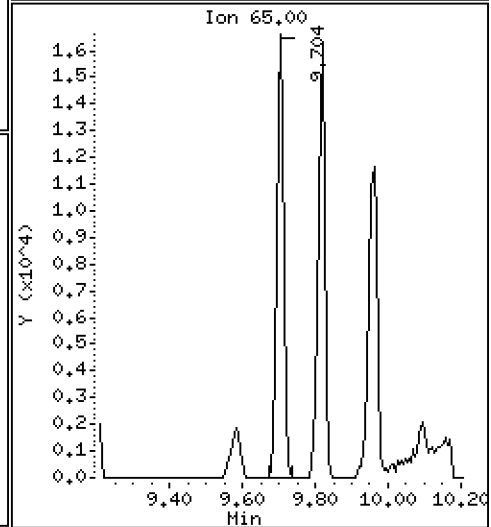
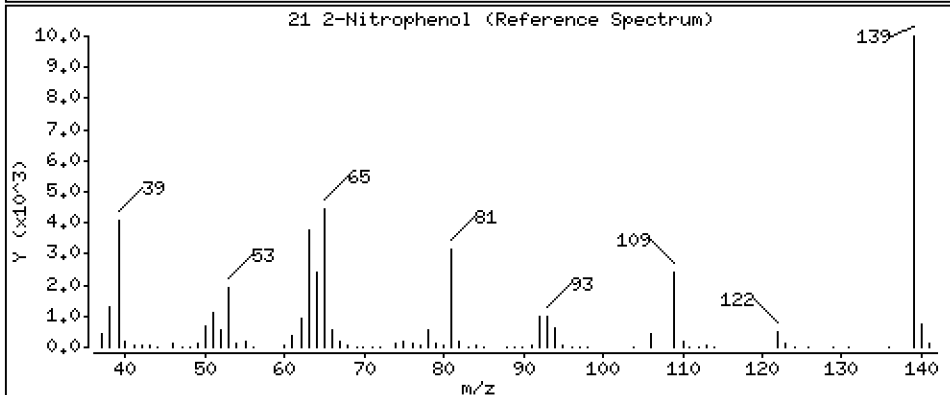
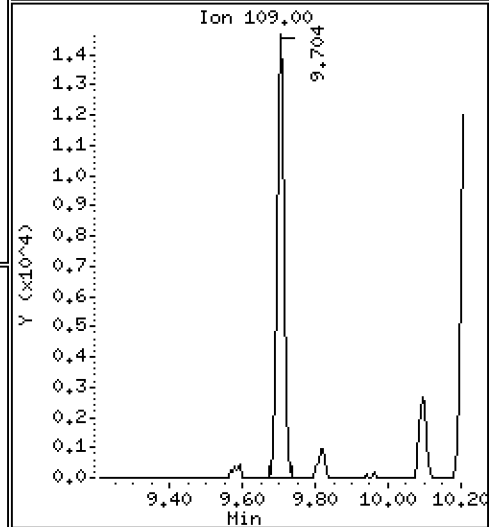
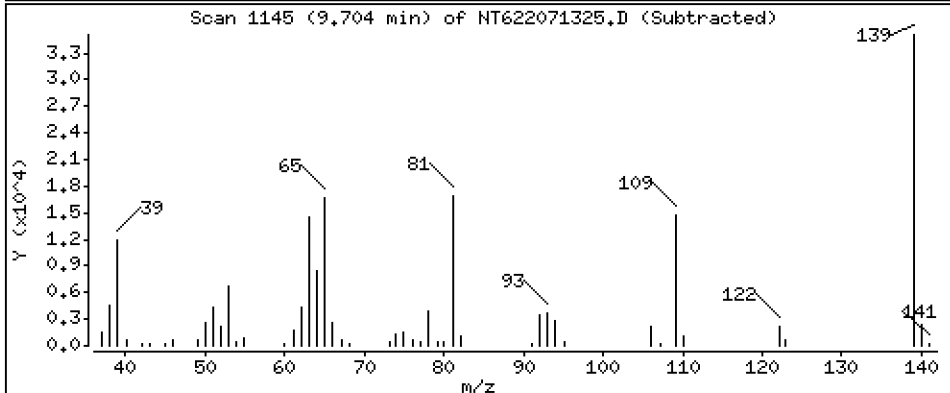
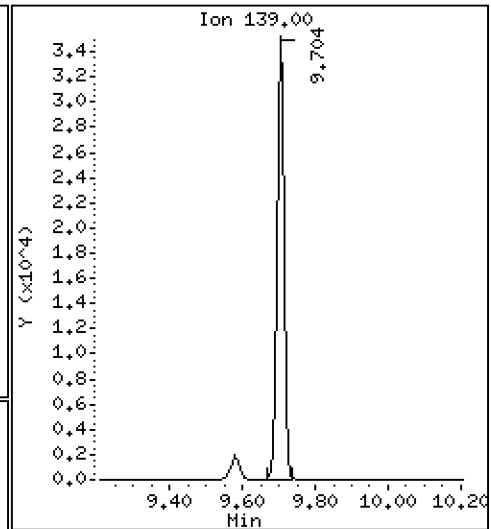
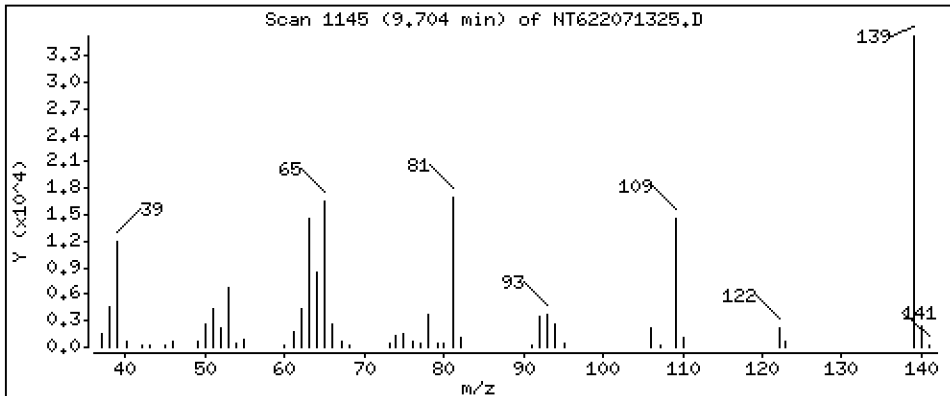
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

21 2-Nitrophenol

Concentration: 22.55 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

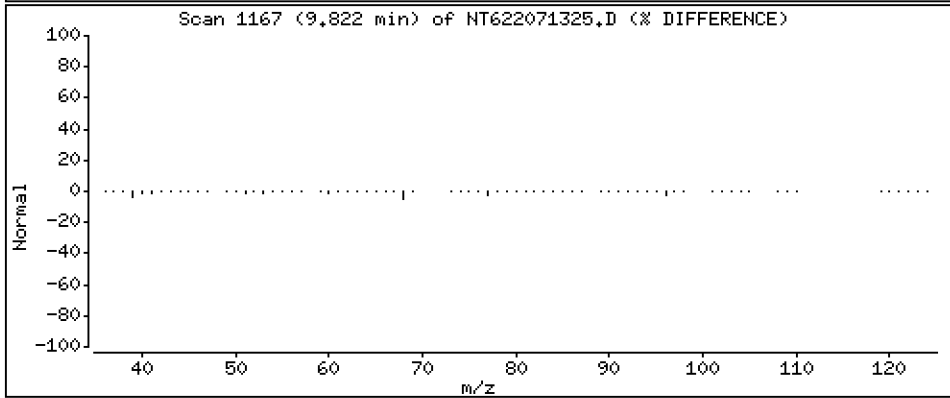
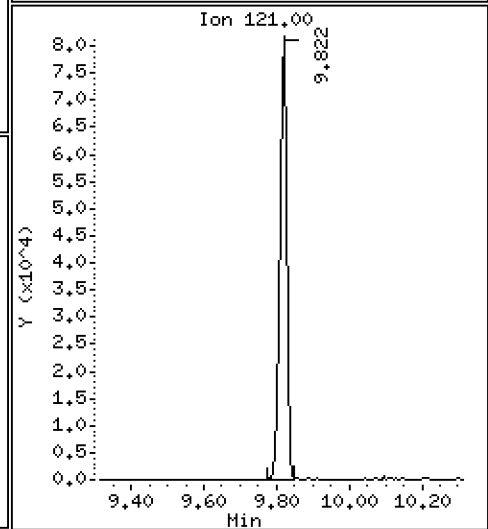
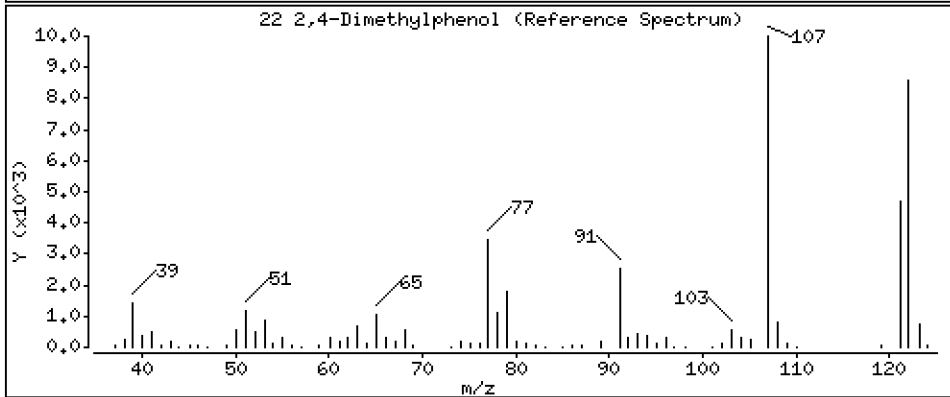
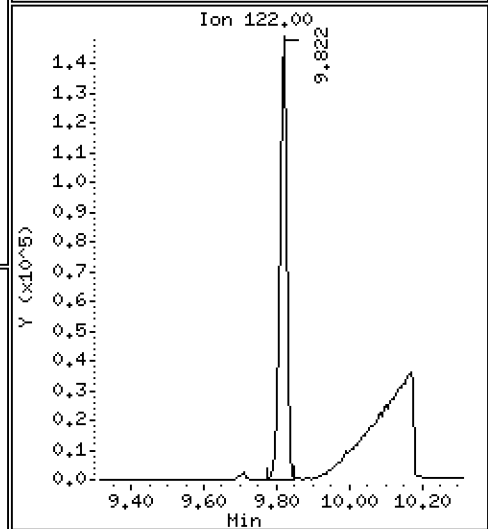
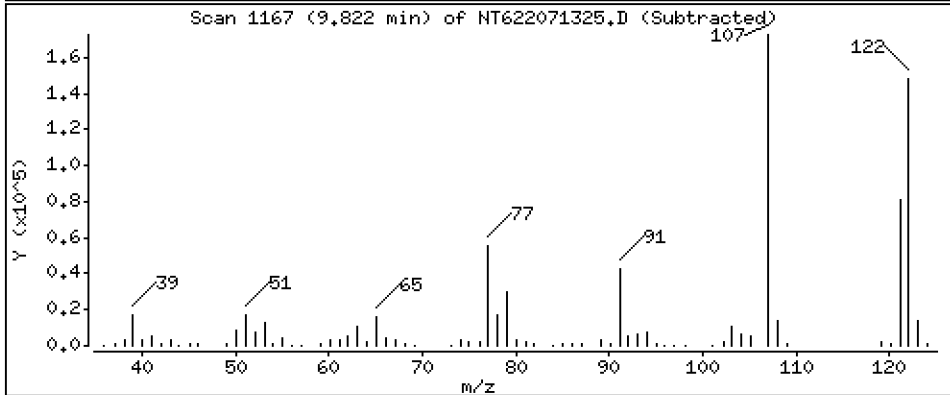
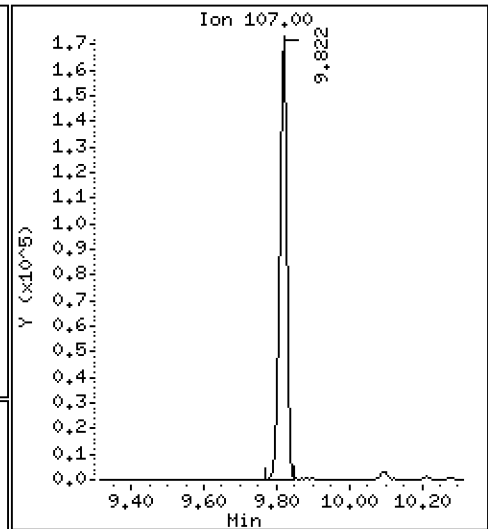
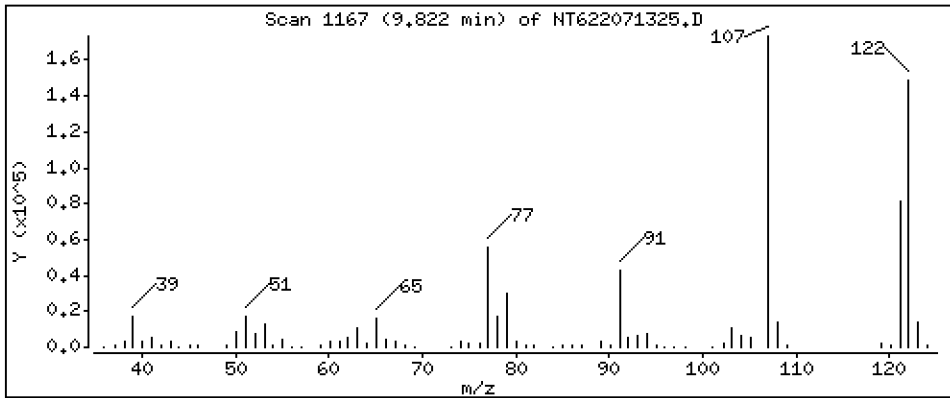
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

22 2,4-Dimethylphenol

Concentration: 60.14 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

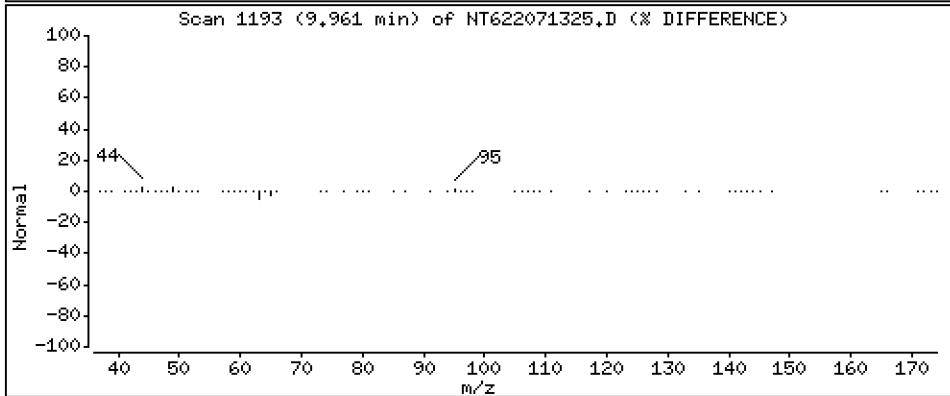
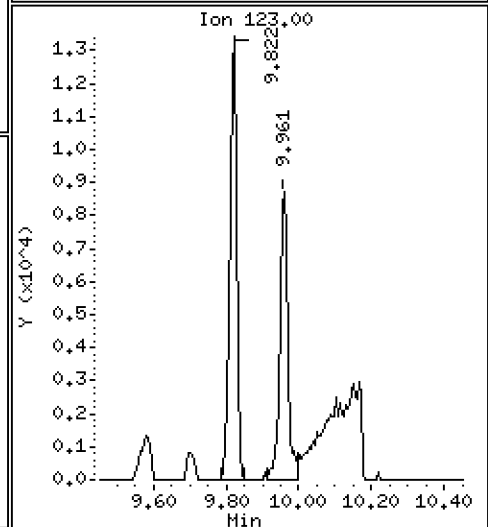
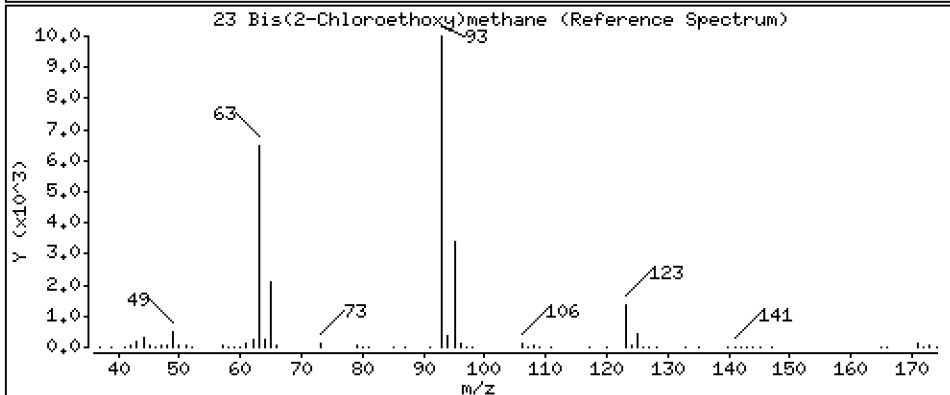
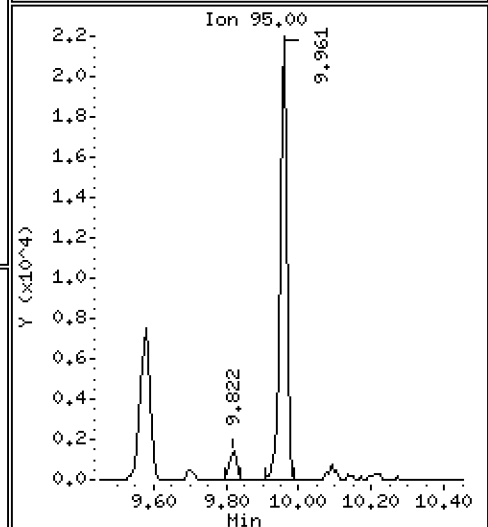
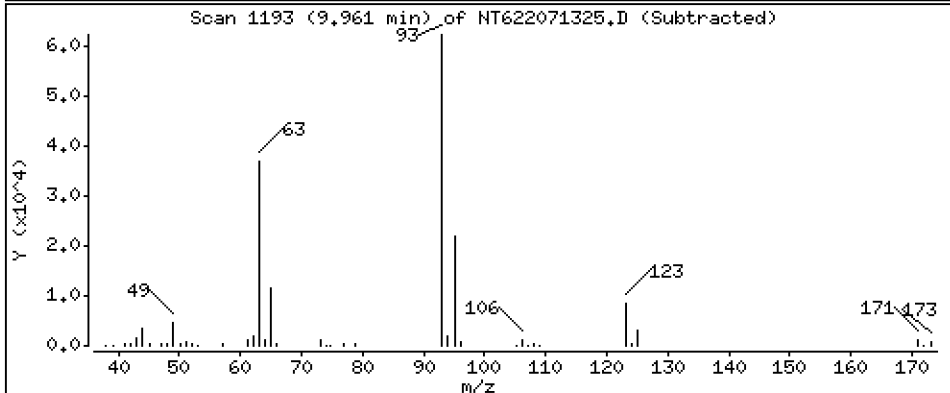
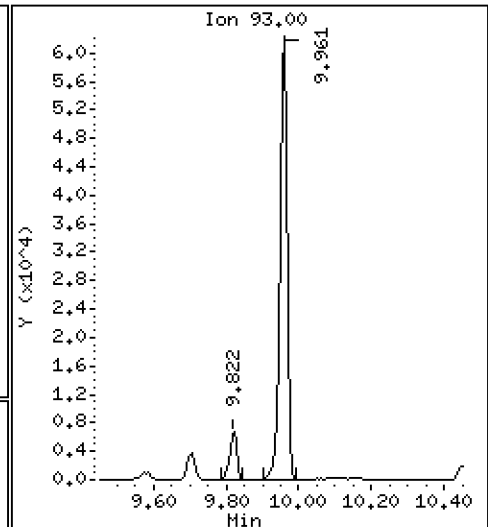
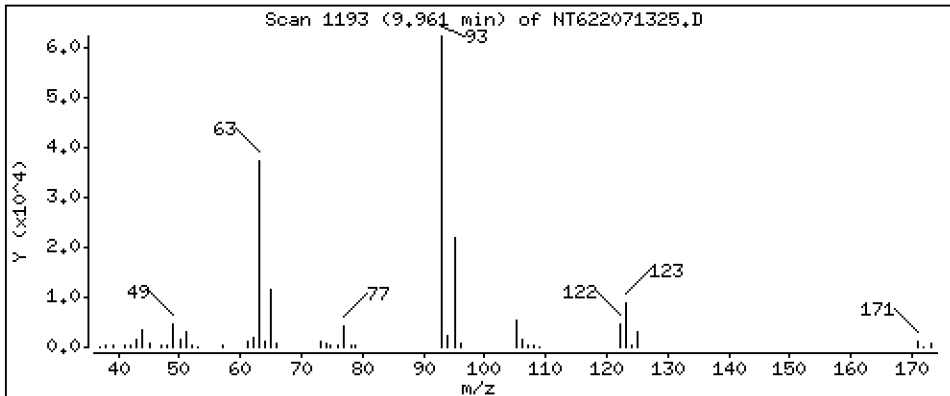
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

23 Bis(2-Chloroethoxy)methane

Concentration: 28.27 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

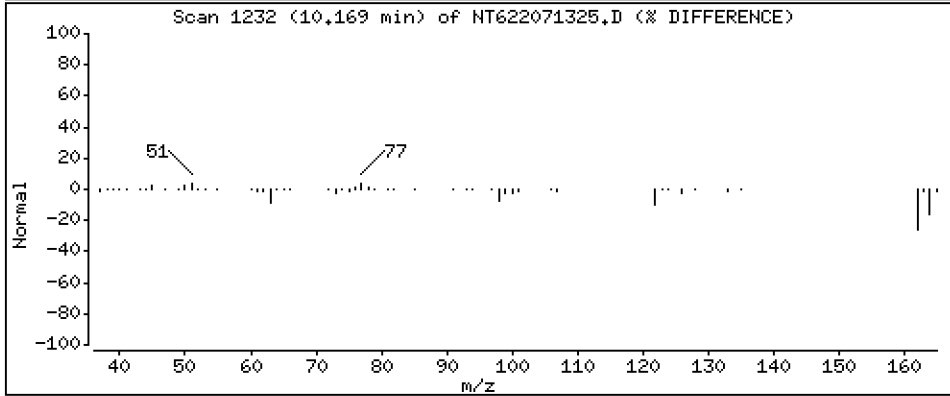
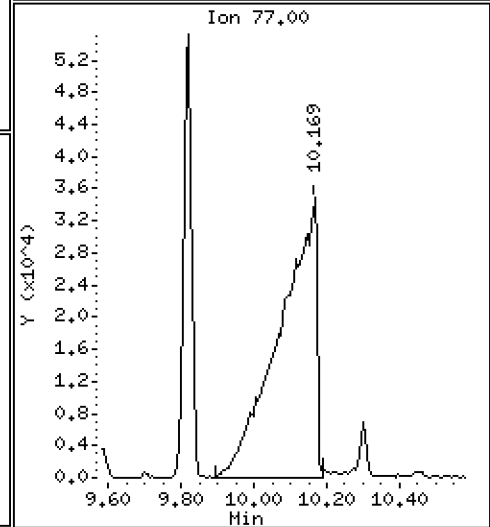
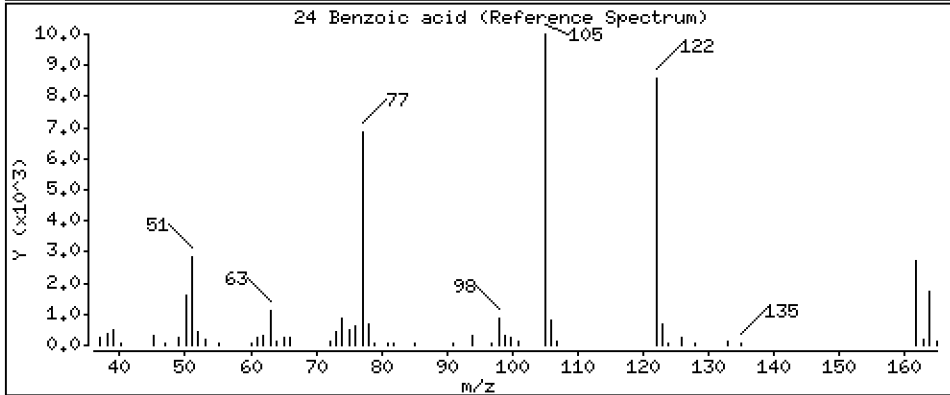
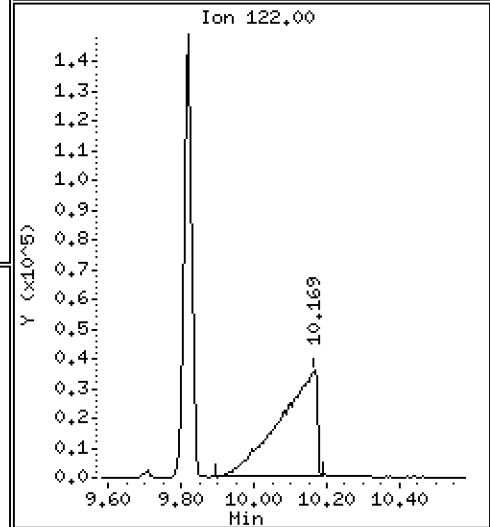
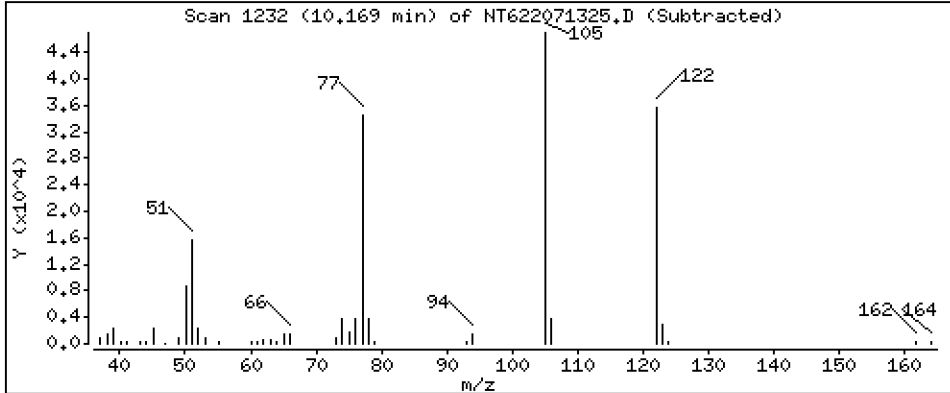
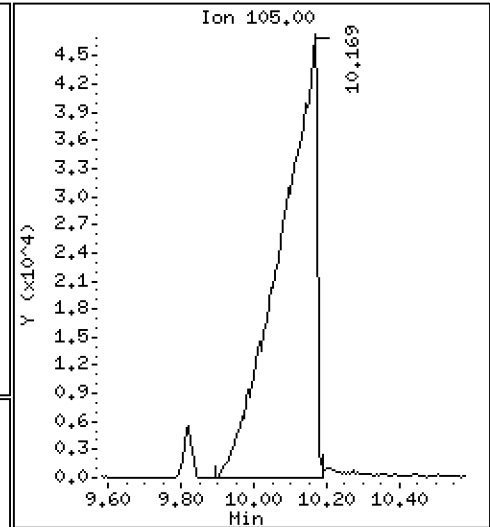
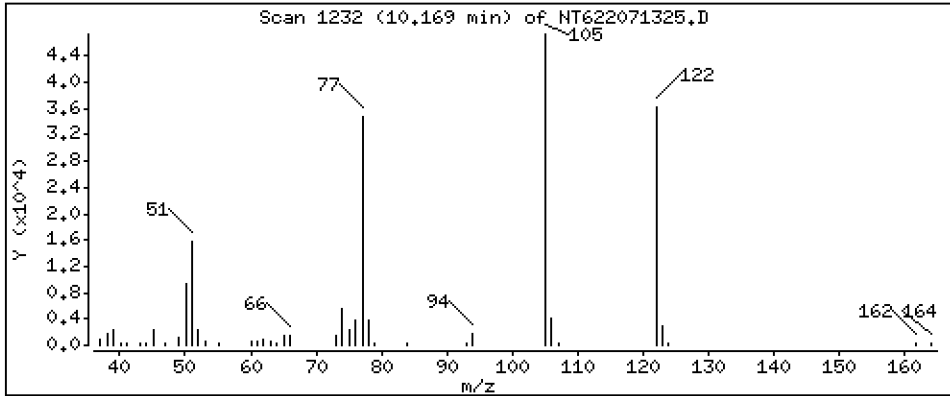
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

24 Benzoic acid

Concentration: 131,7 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

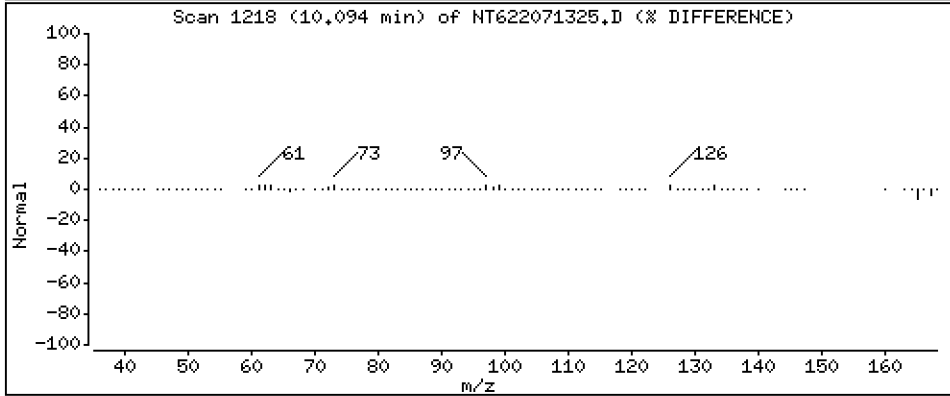
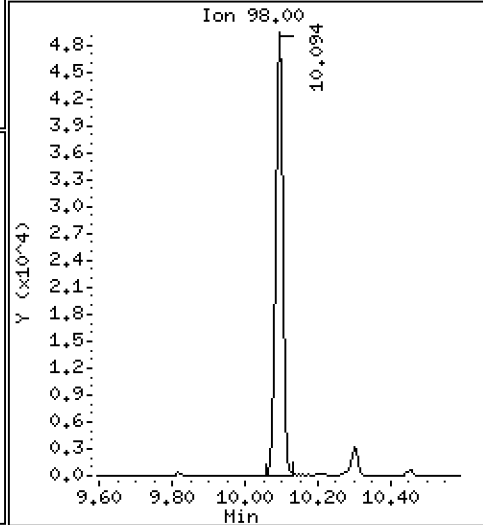
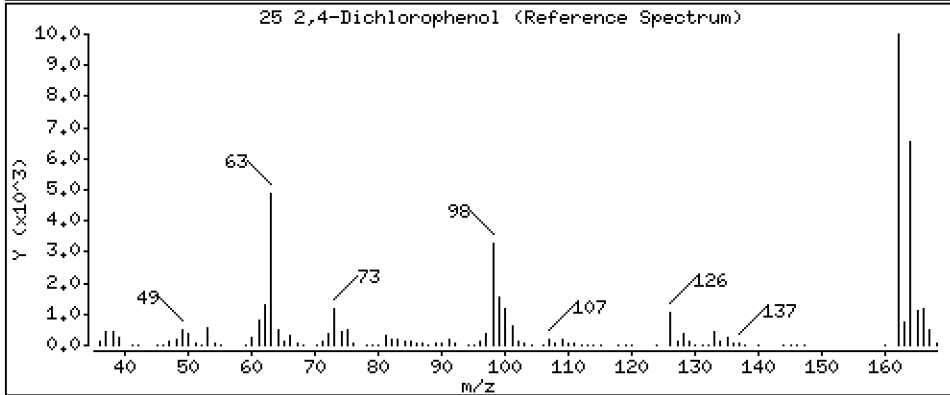
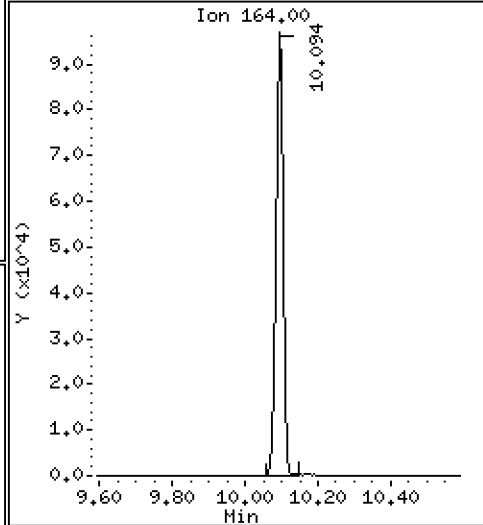
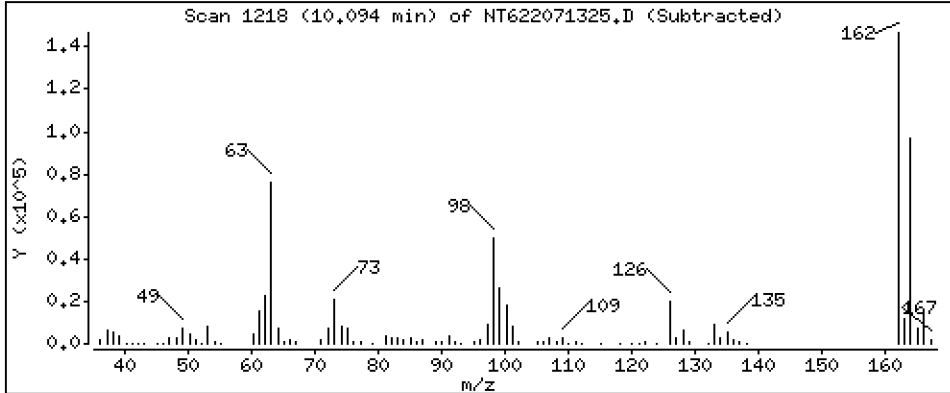
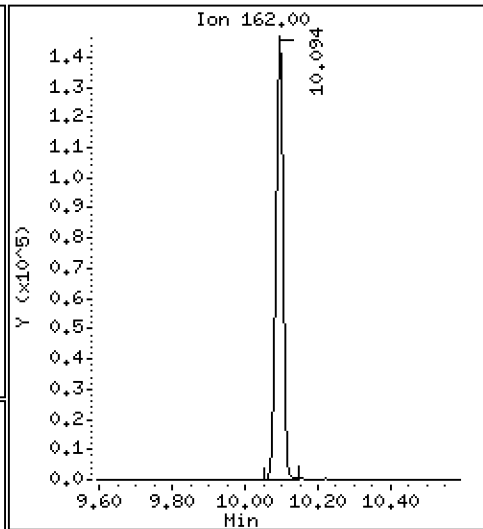
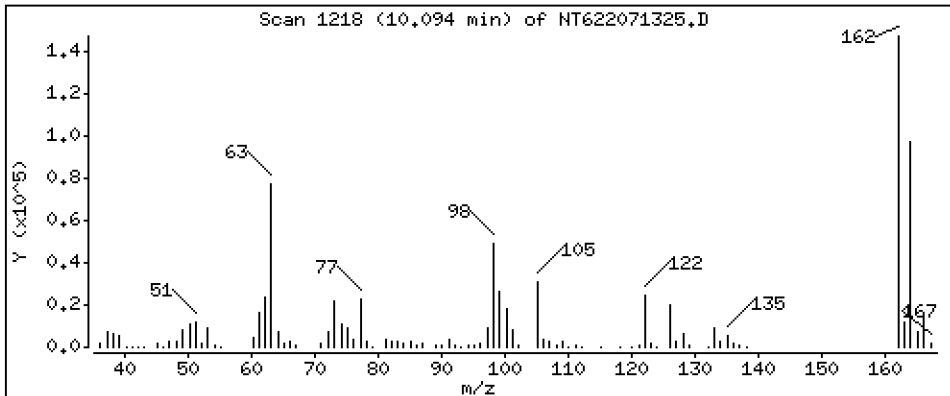
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

25 2,4-Dichlorophenol

Concentration: 63.97 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

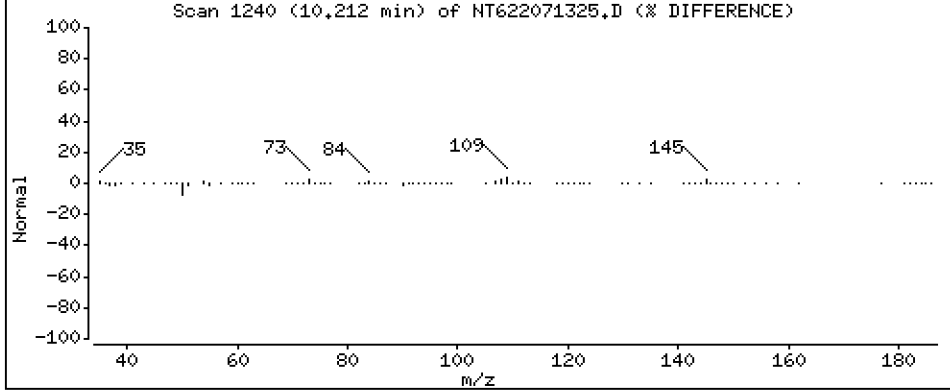
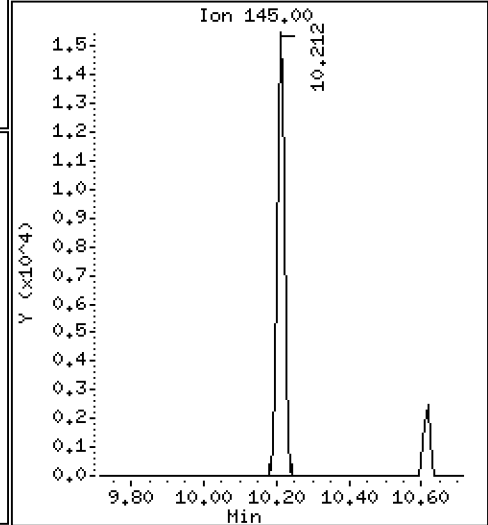
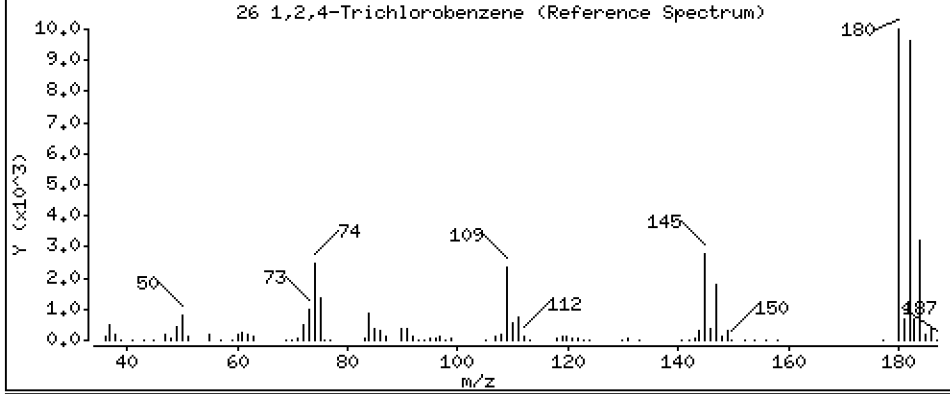
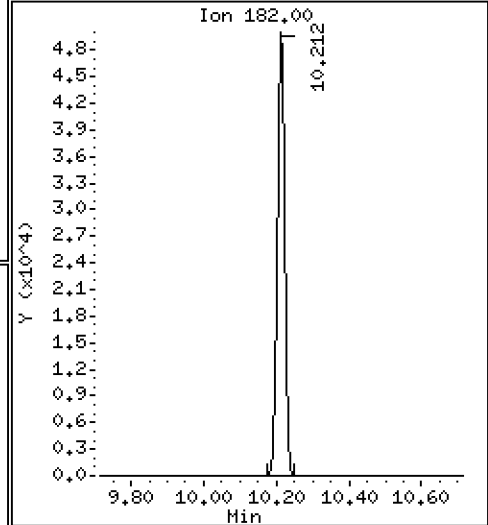
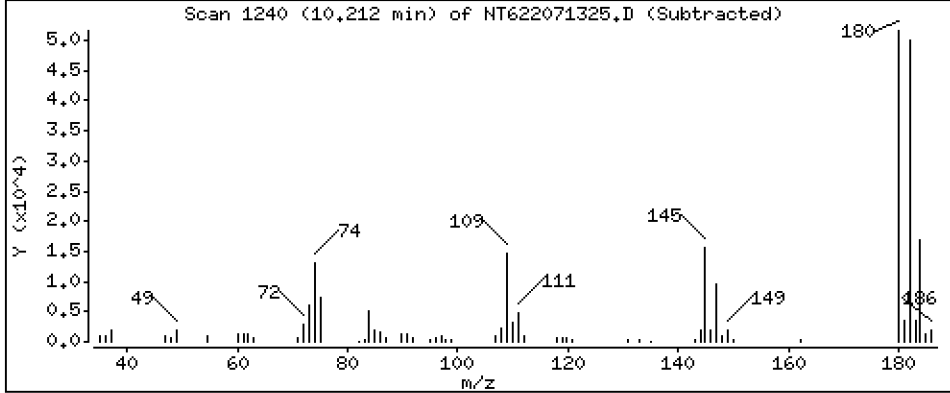
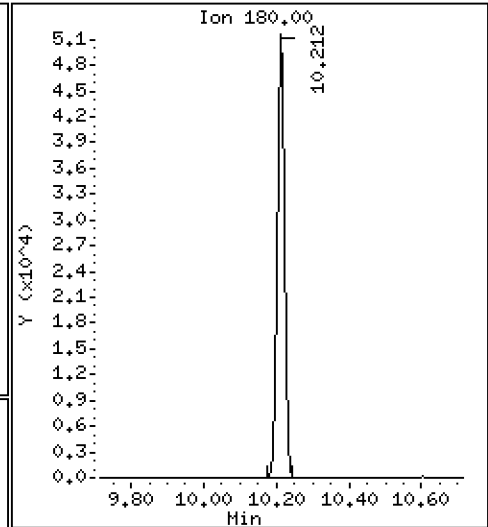
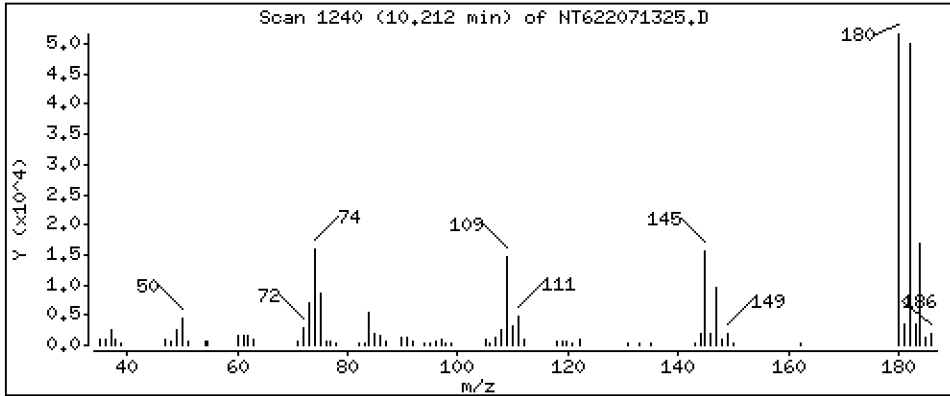
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

26 1,2,4-Trichlorobenzene

Concentration: 19.59 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

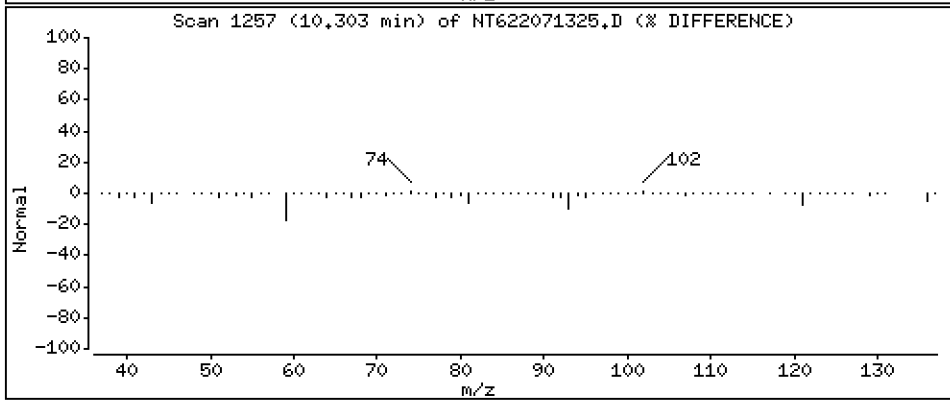
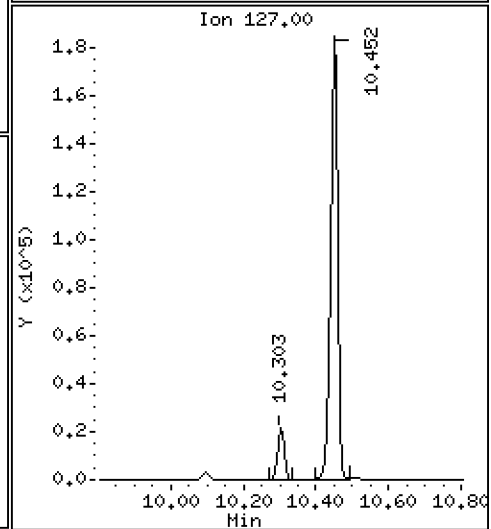
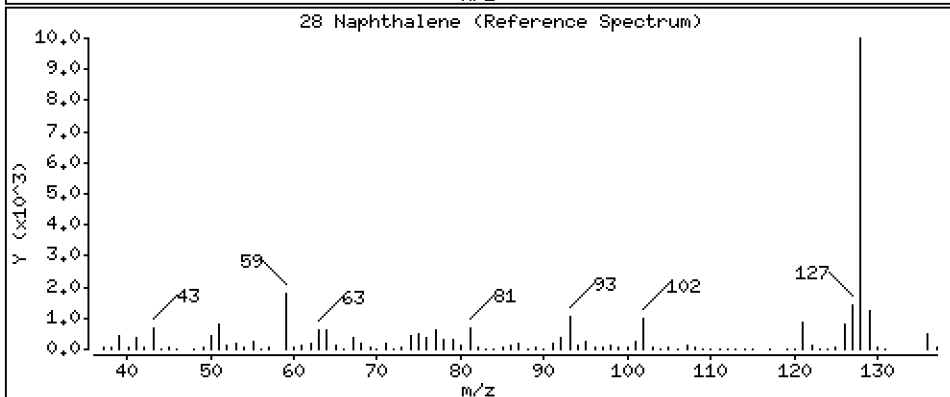
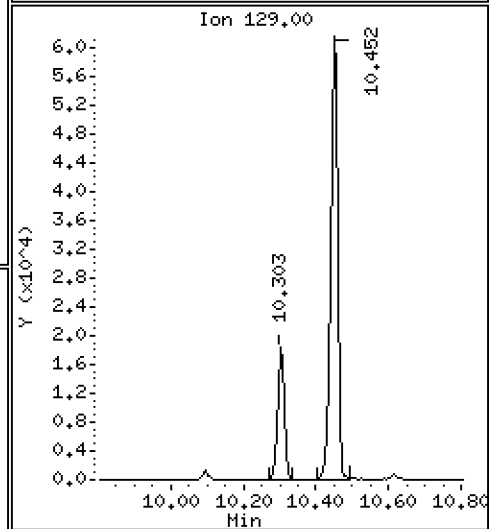
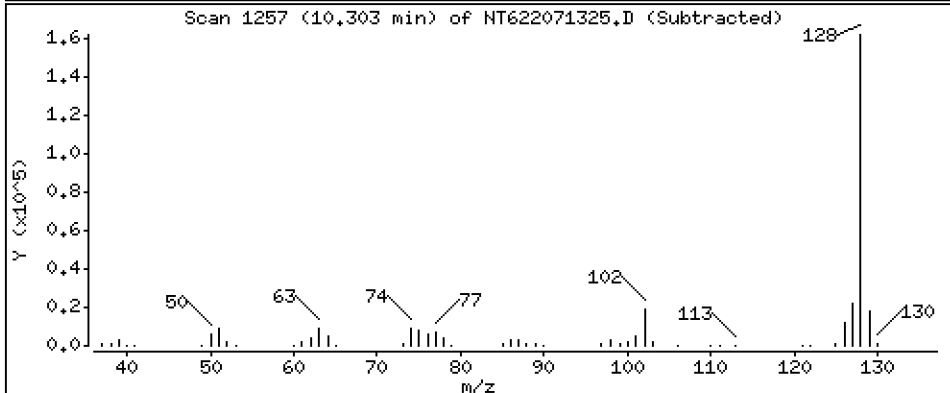
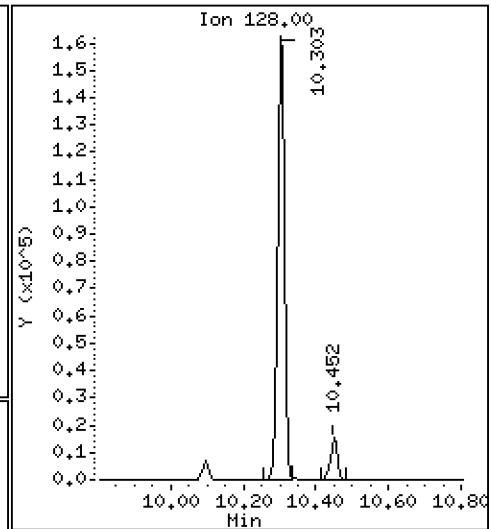
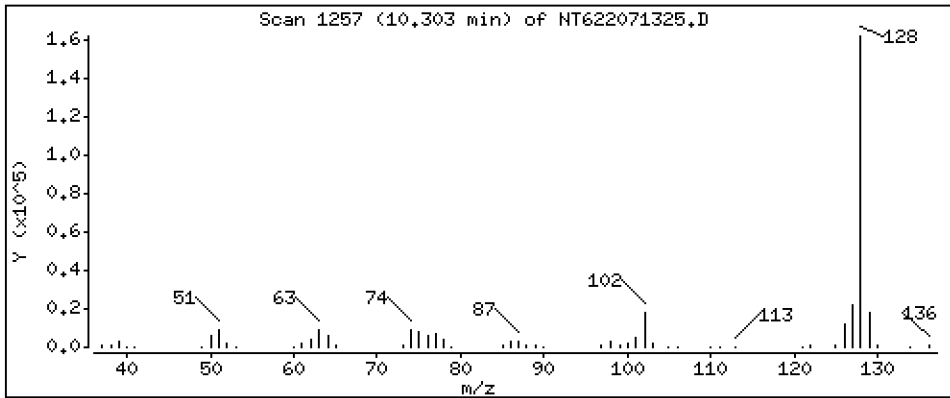
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

28 Naphthalene

Concentration: 21.83 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

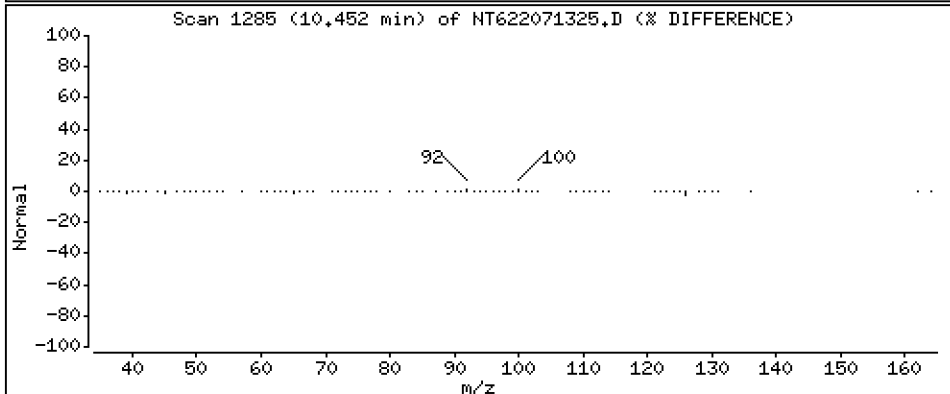
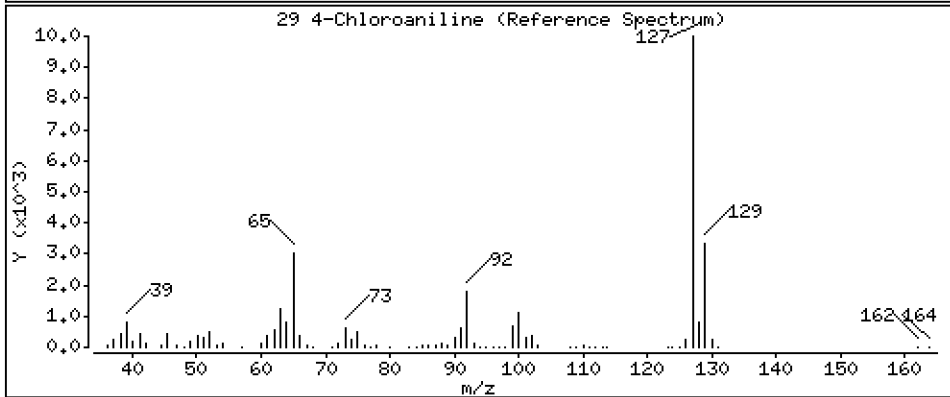
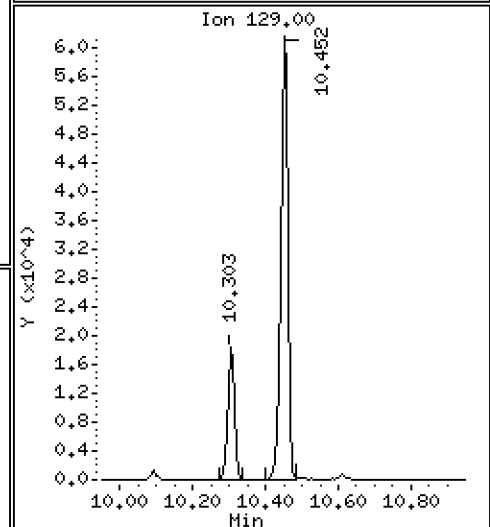
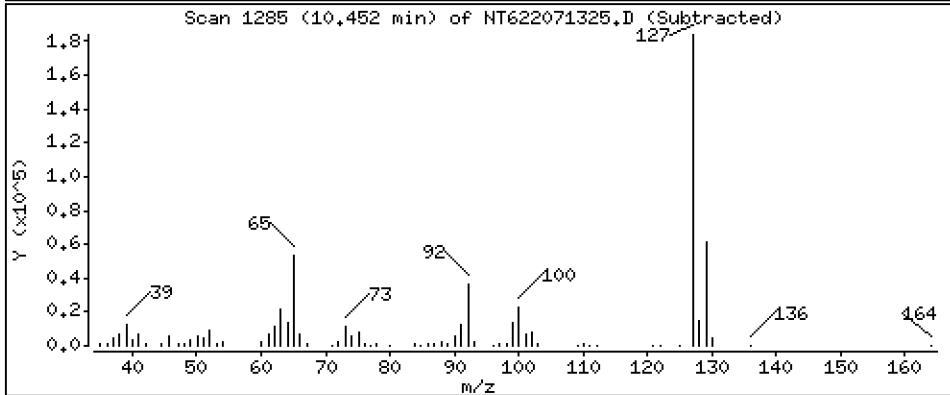
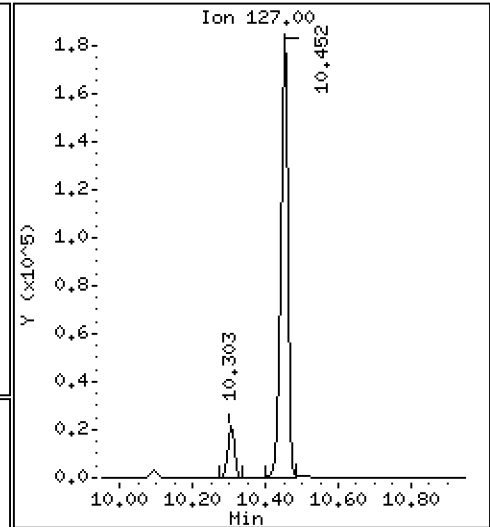
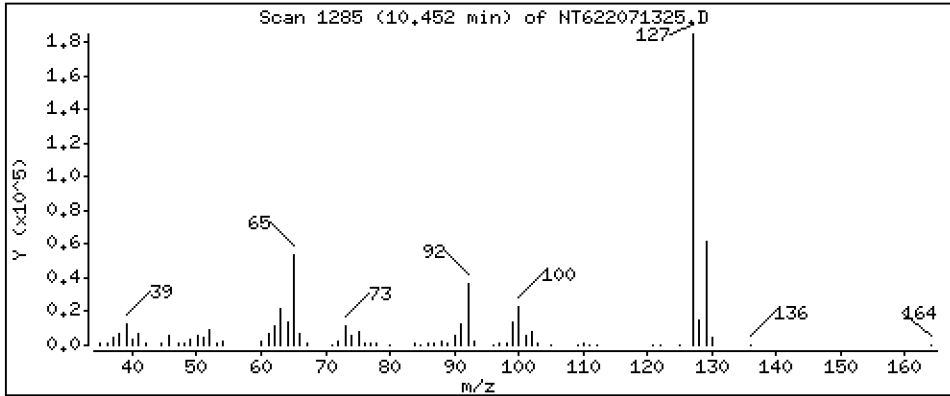
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

29 4-Chloroaniline

Concentration: 62.79 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

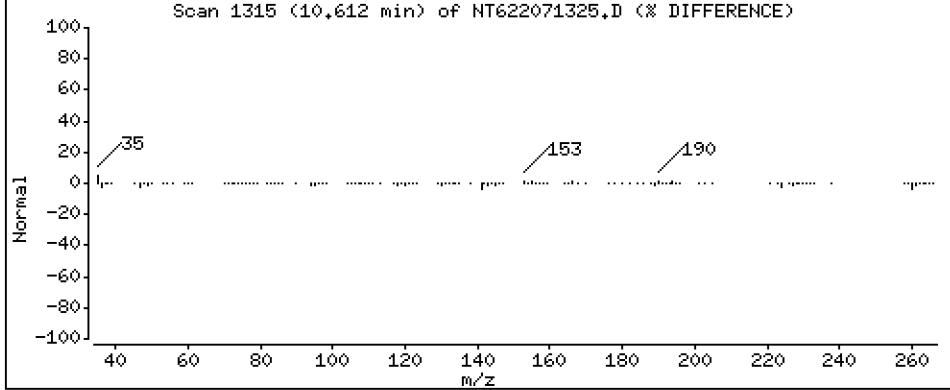
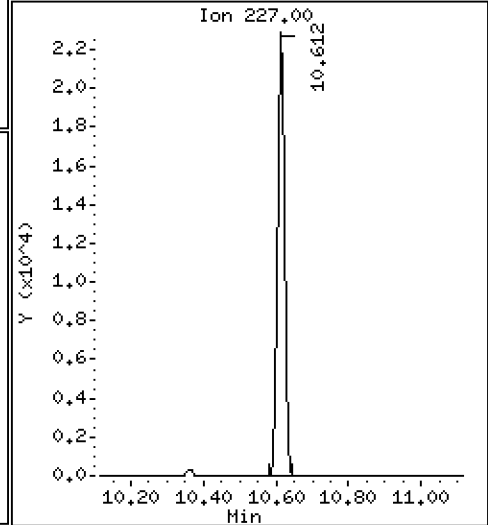
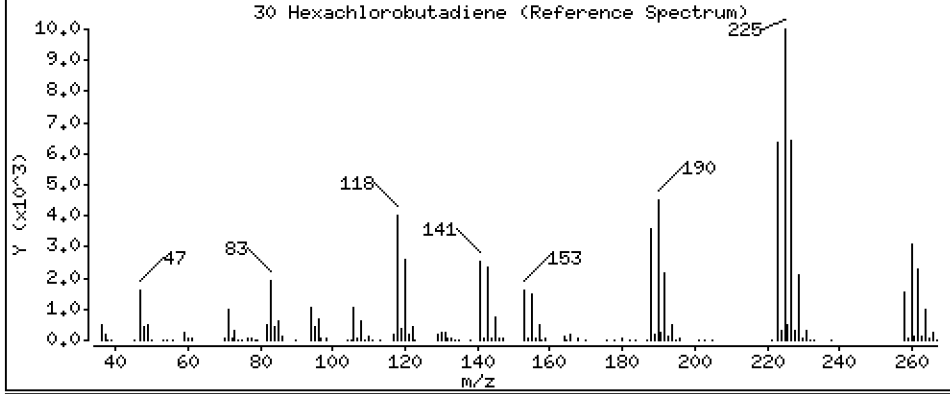
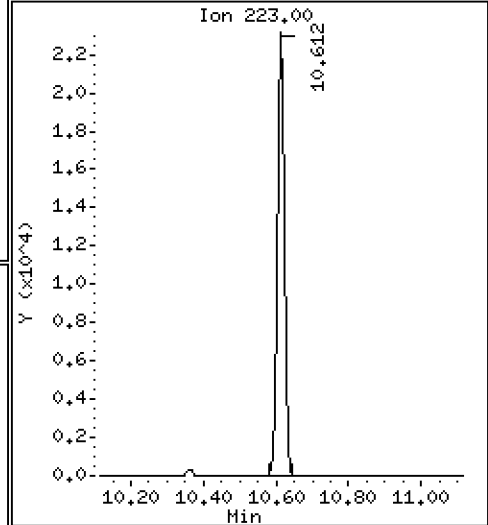
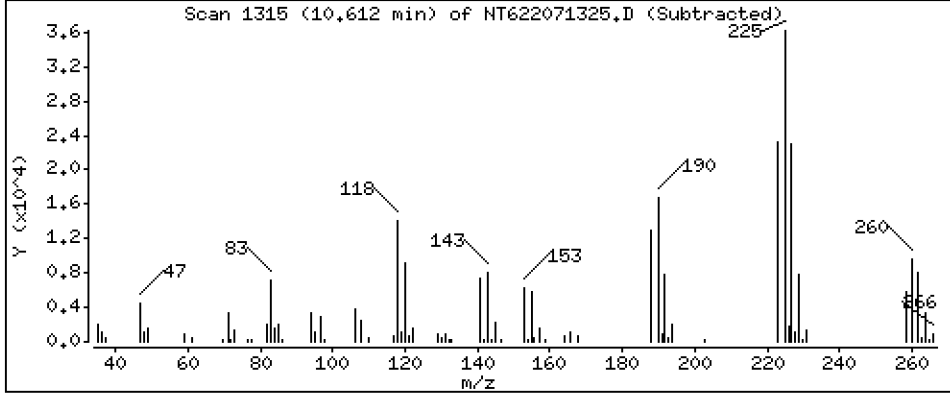
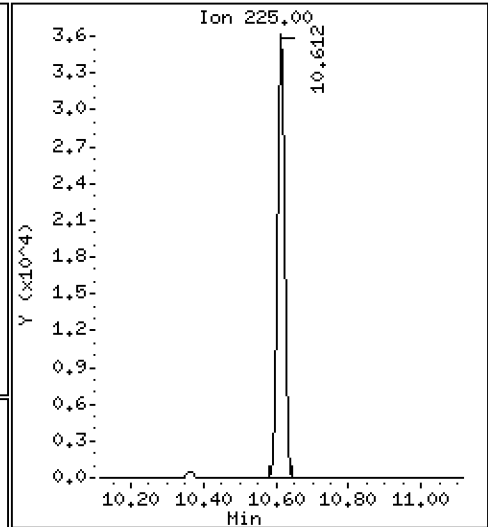
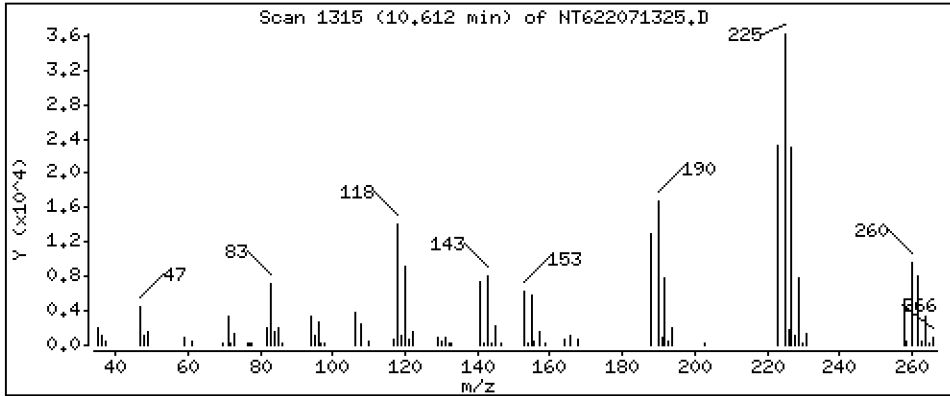
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

30 Hexachlorobutadiene

Concentration: 21.26 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

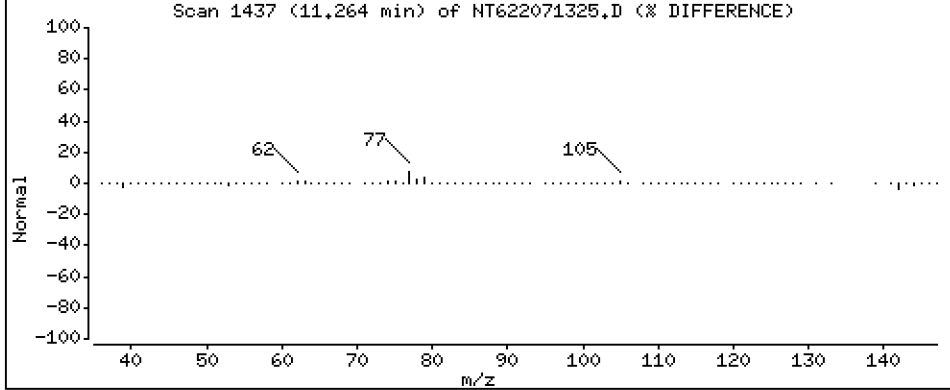
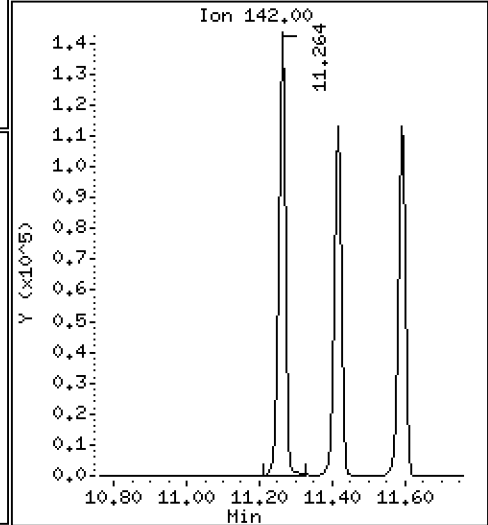
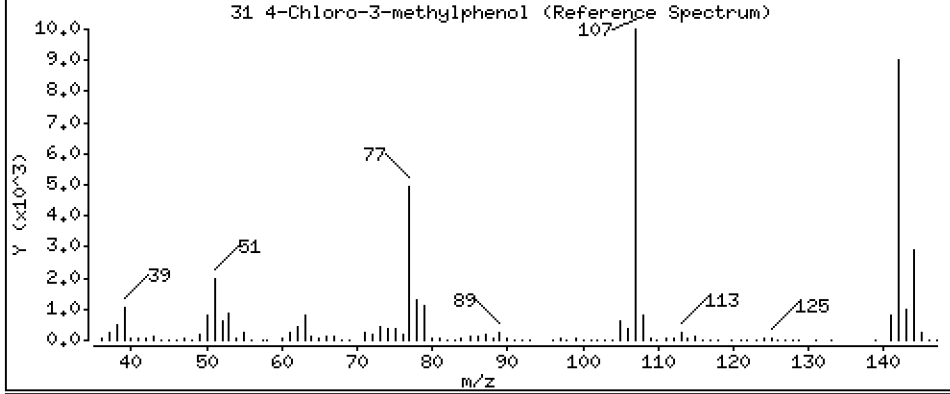
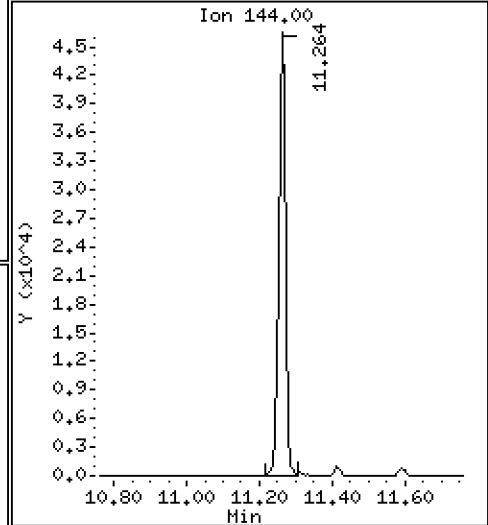
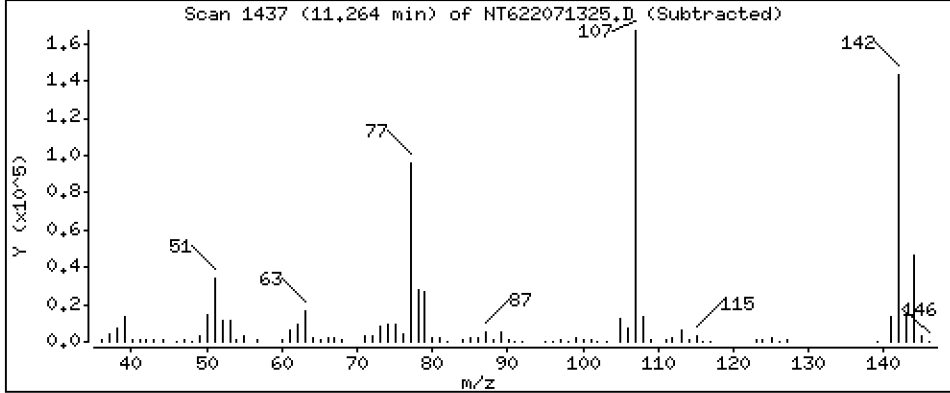
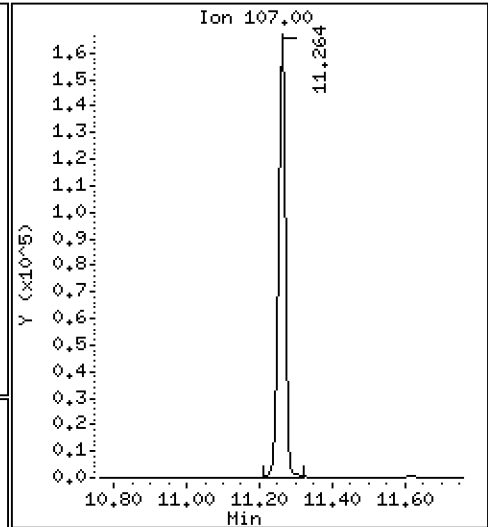
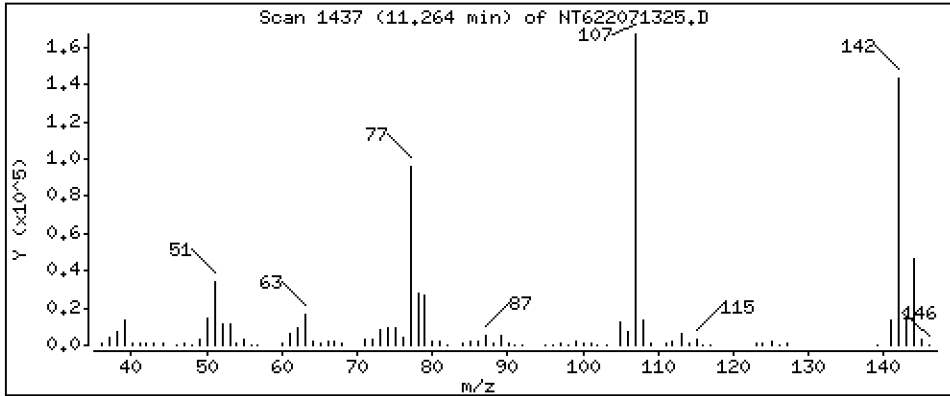
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

31 4-Chloro-3-methylphenol

Concentration: 69.90 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

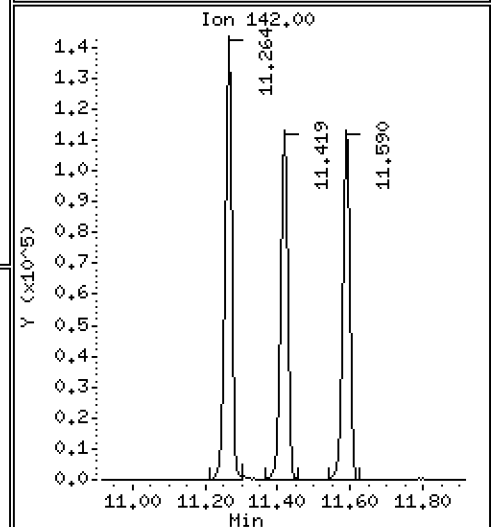
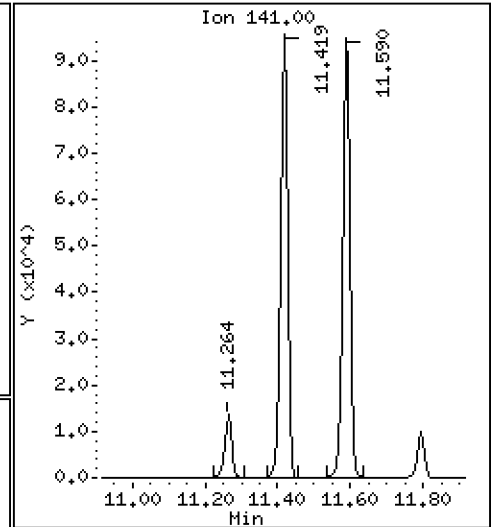
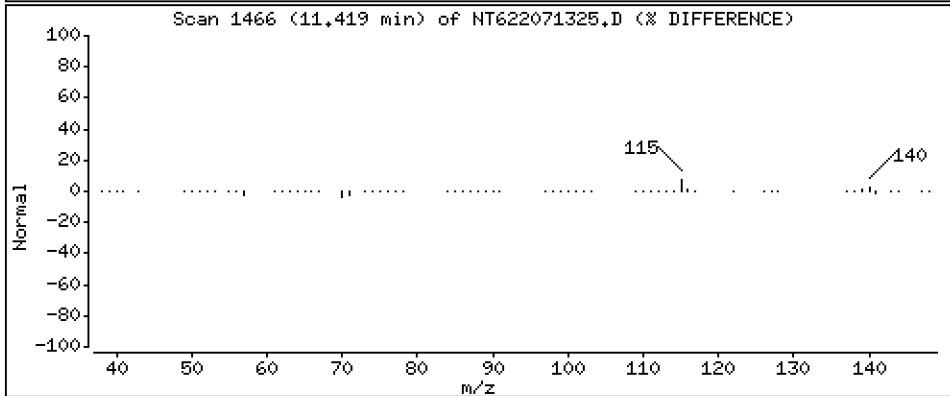
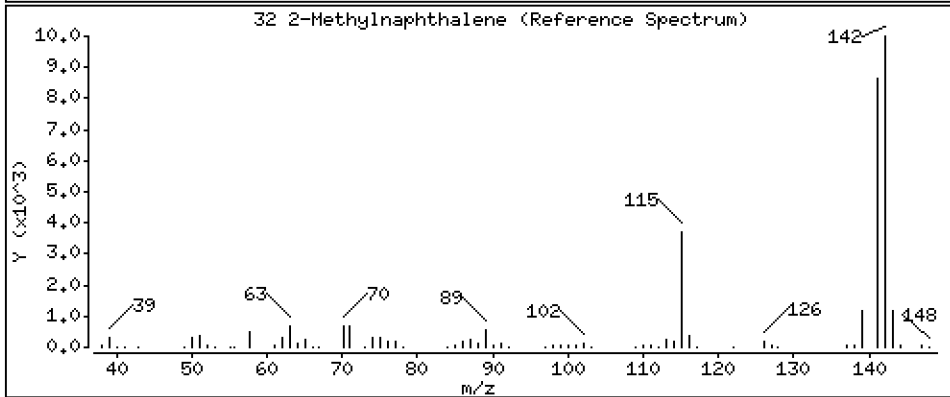
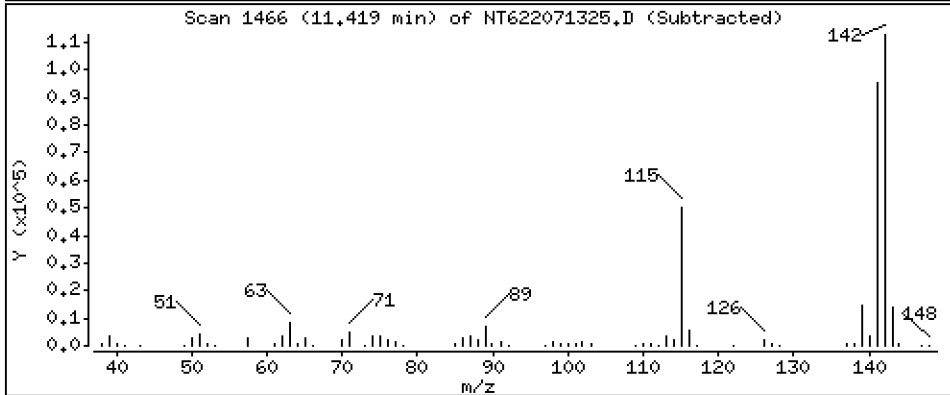
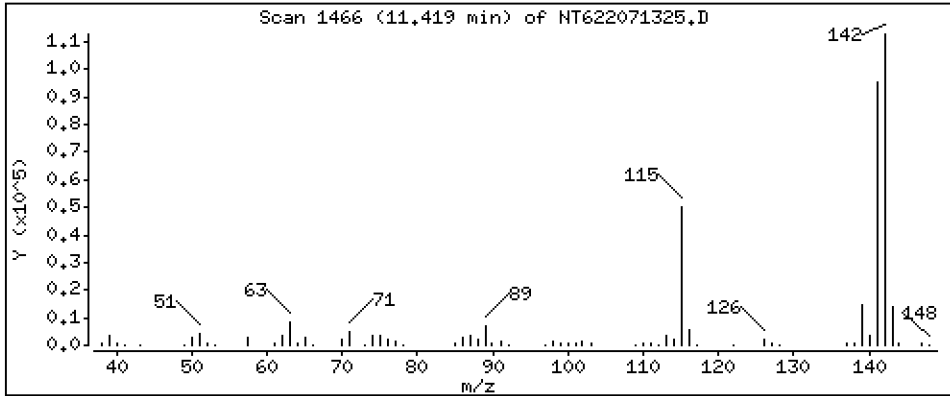
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

32 2-Methylnaphthalene

Concentration: 23.47 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

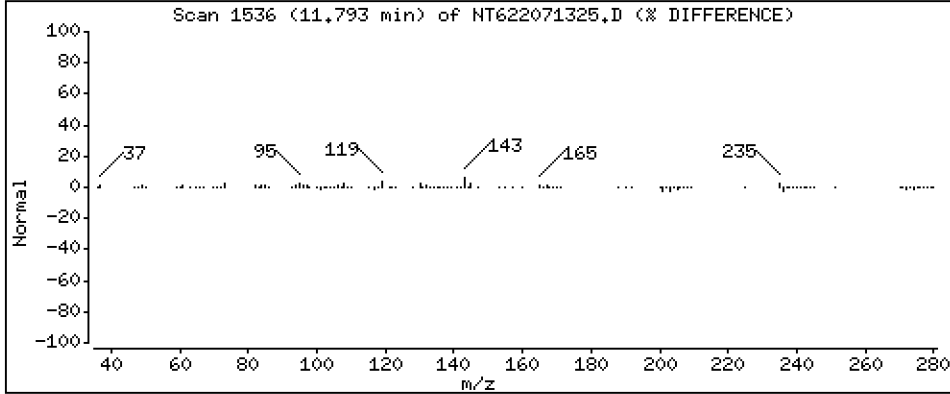
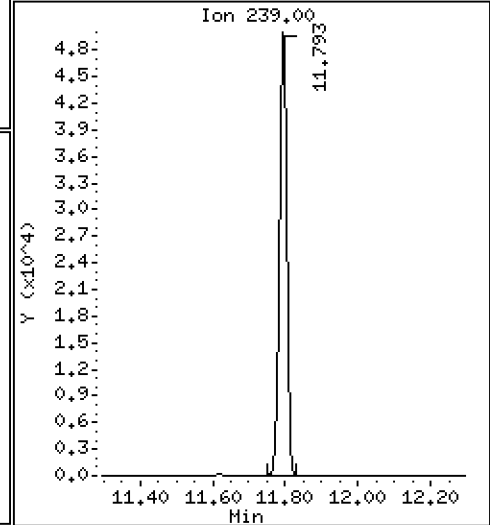
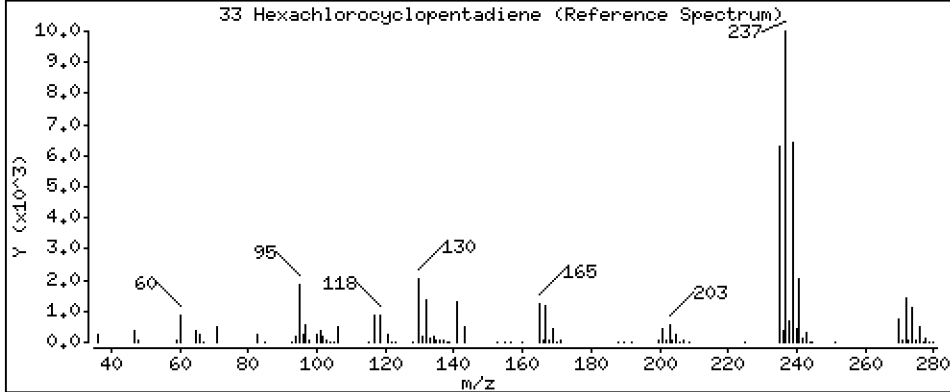
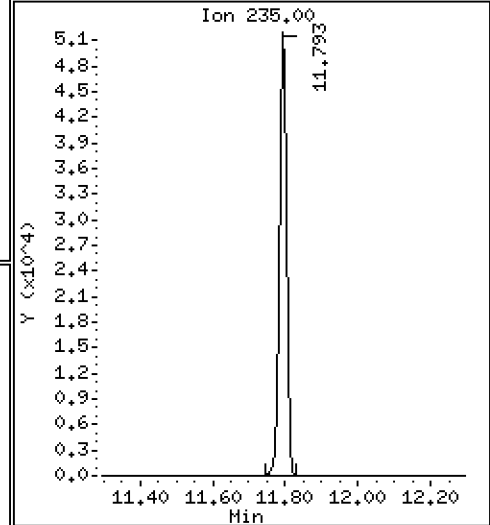
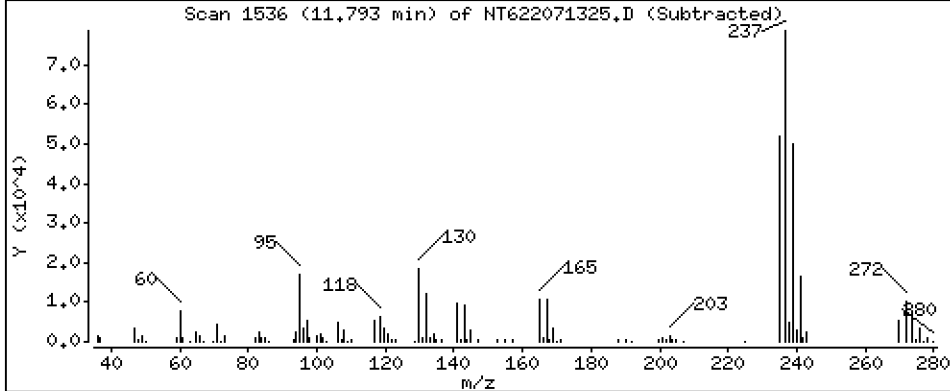
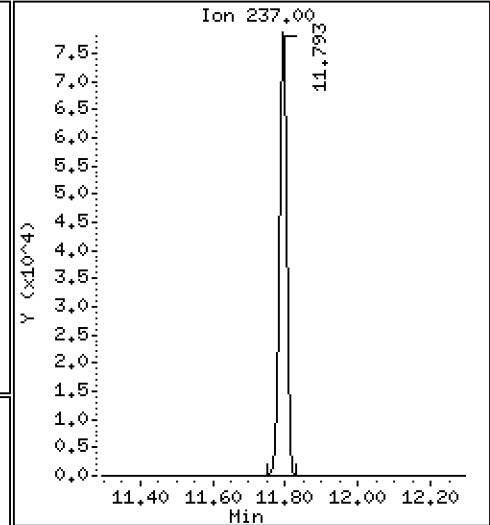
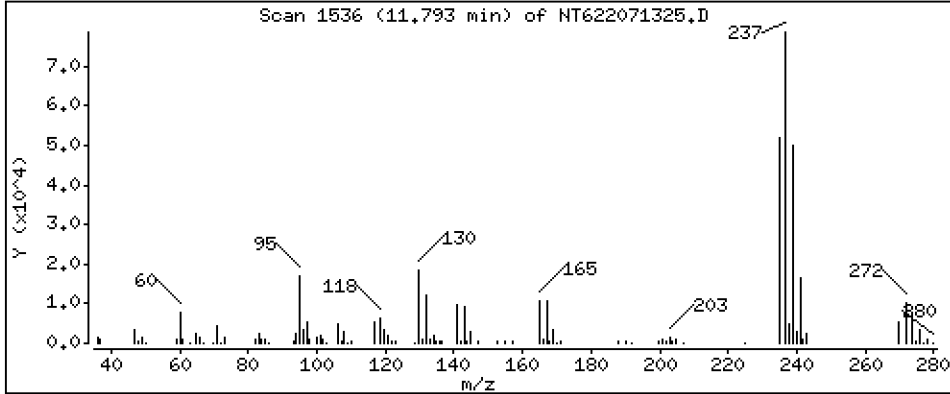
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

33 Hexachlorocyclopentadiene

Concentration: 40.49 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

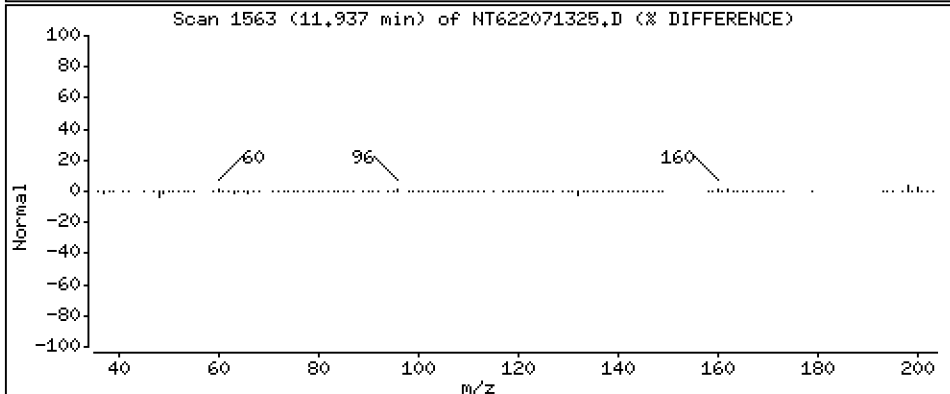
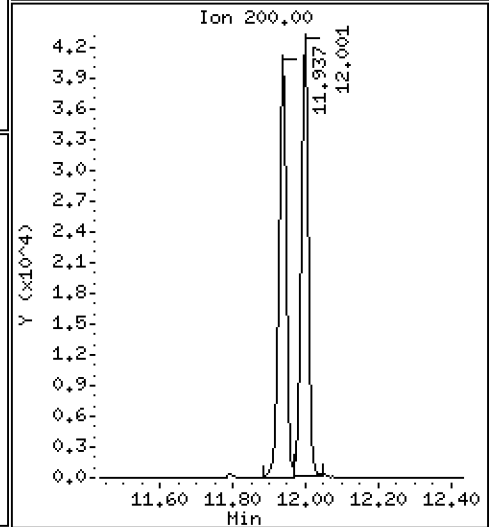
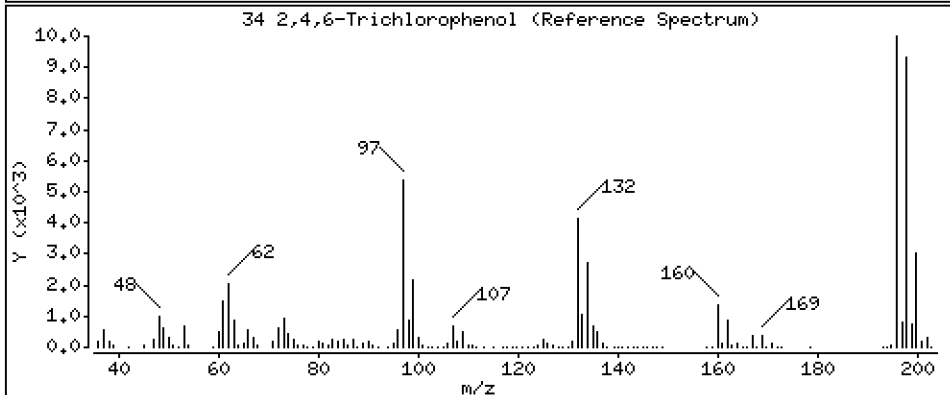
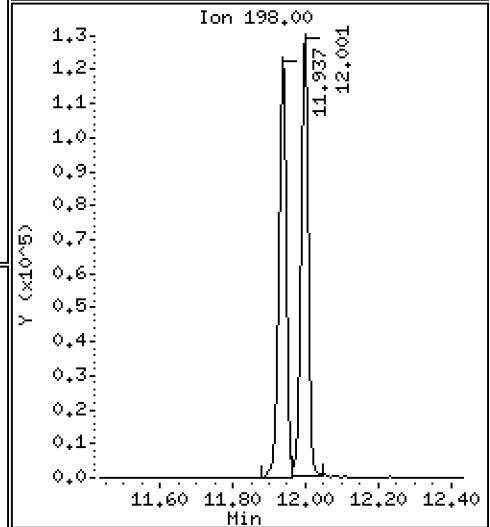
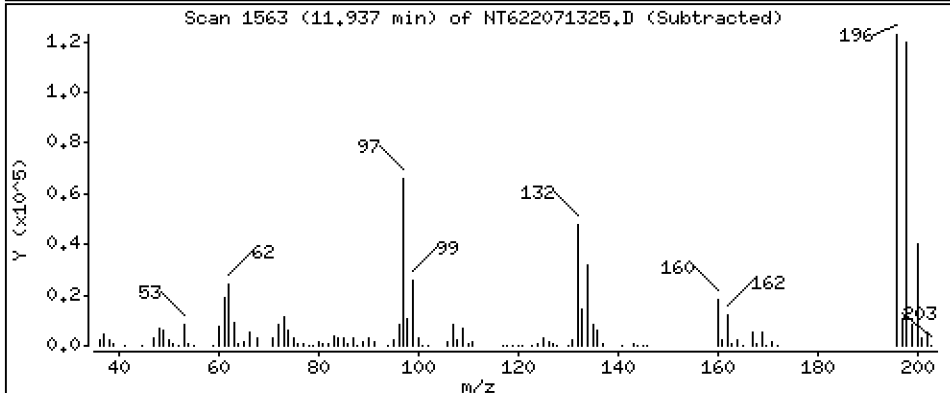
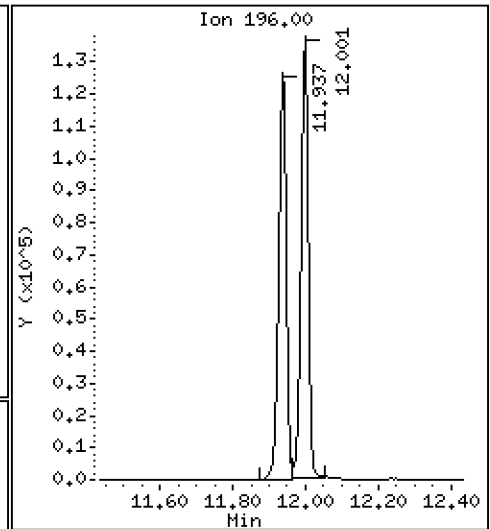
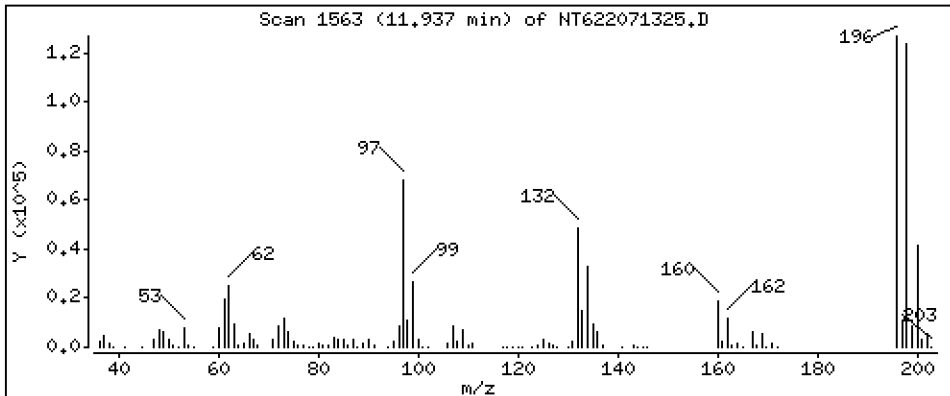
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

34 2,4,6-Trichlorophenol

Concentration: 65.01 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

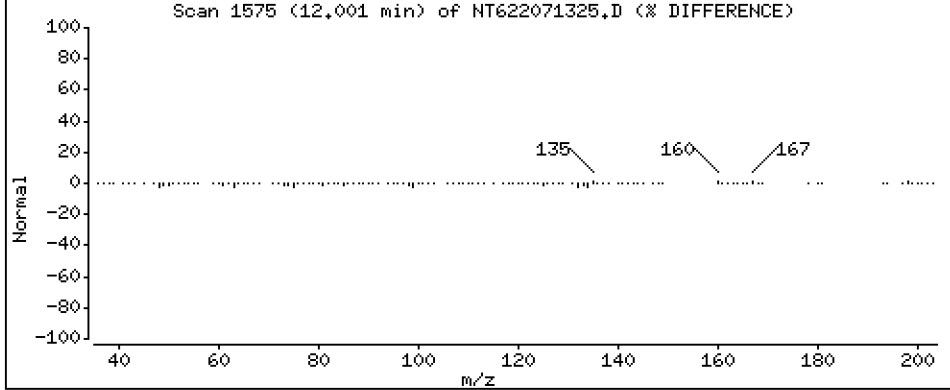
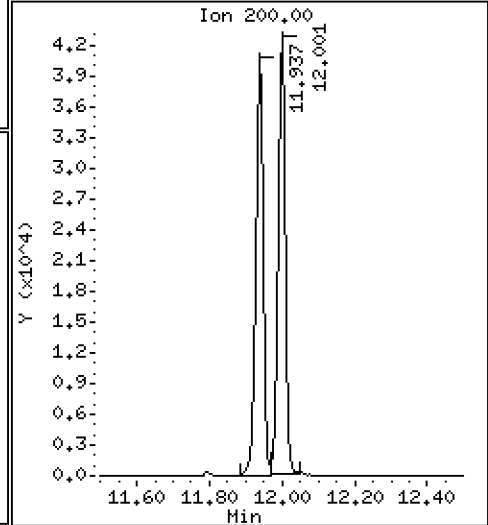
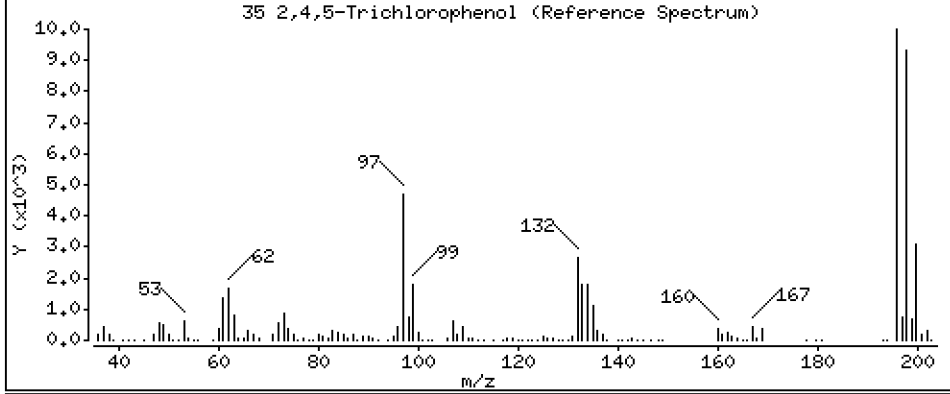
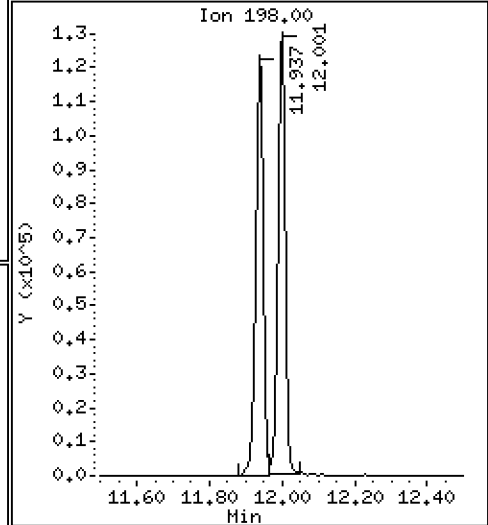
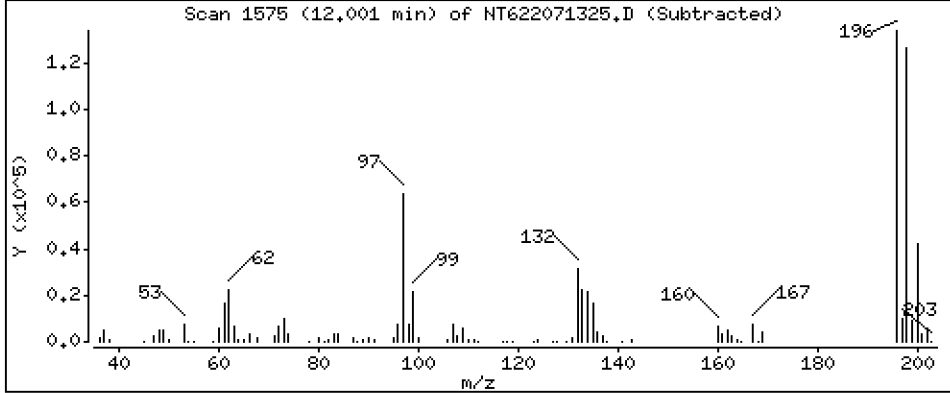
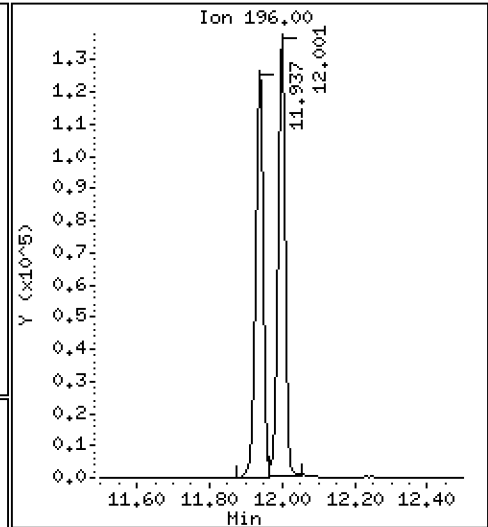
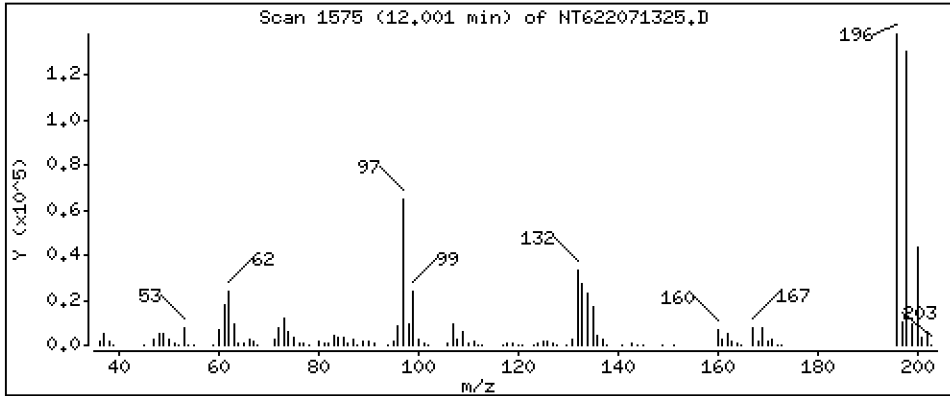
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

35 2,4,5-Trichlorophenol

Concentration: 62.48 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

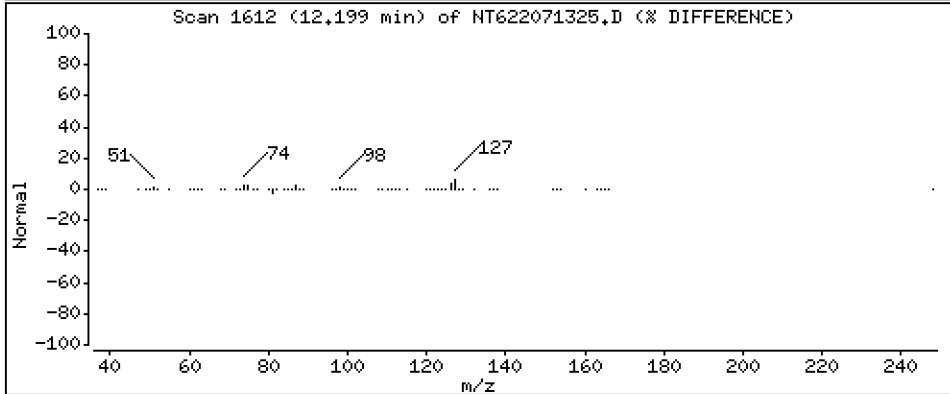
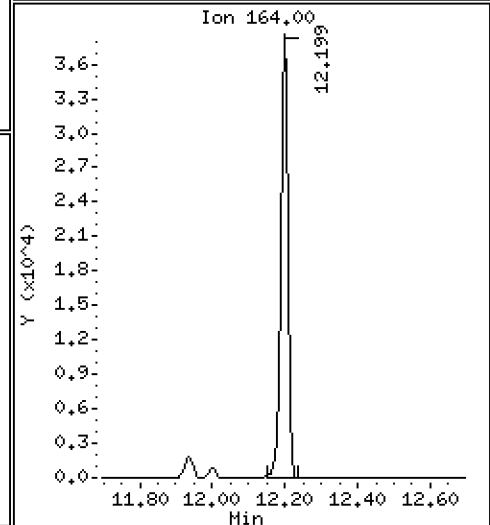
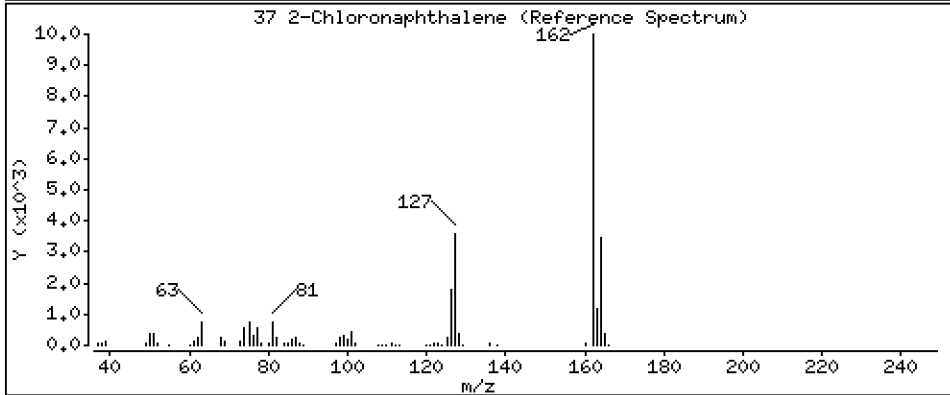
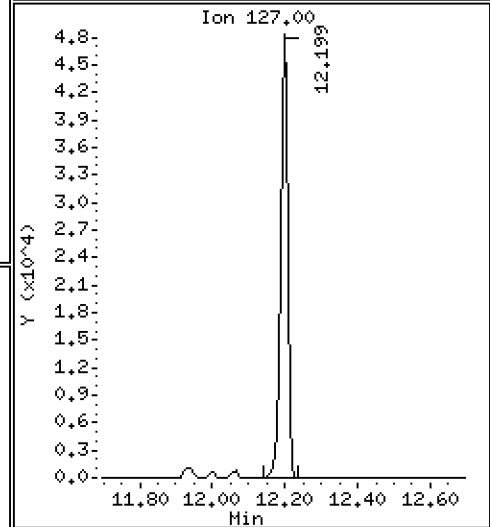
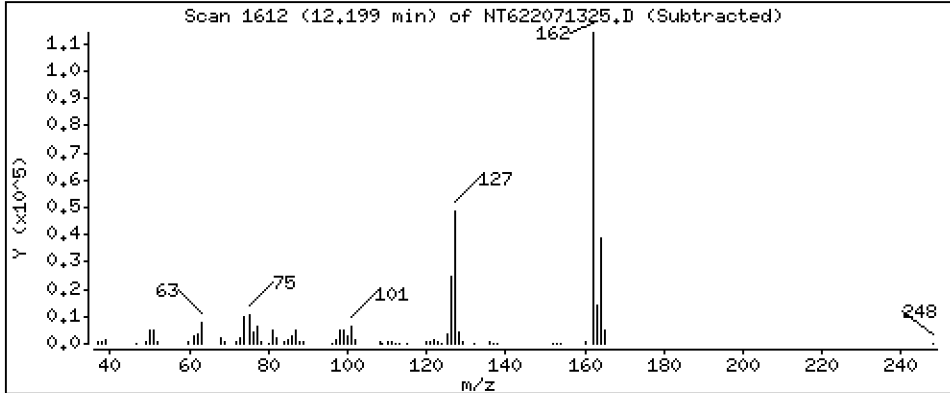
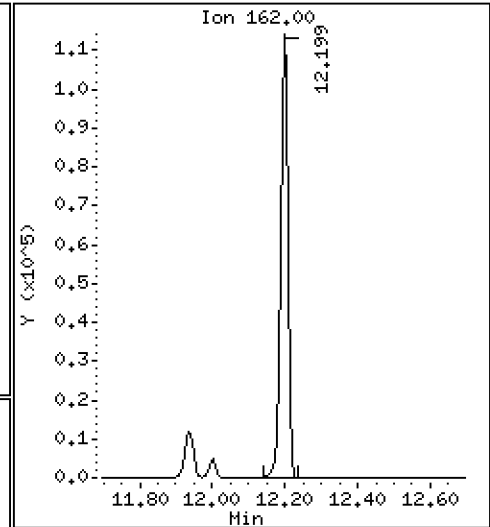
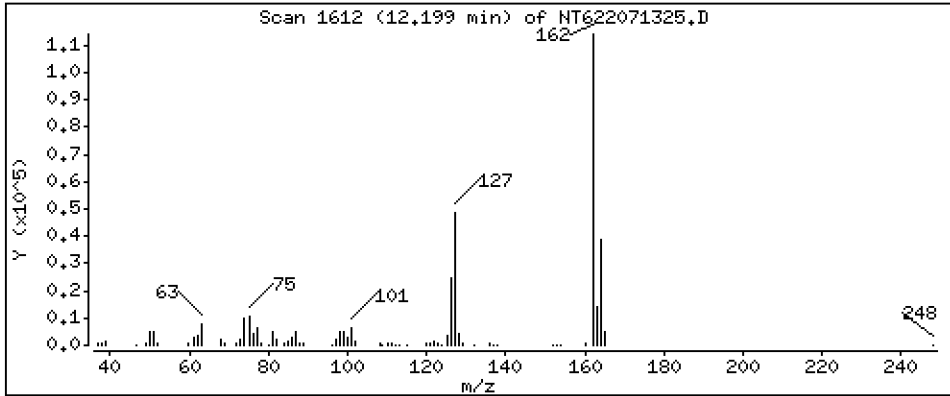
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

37 2-Chloronaphthalene

Concentration: 21.57 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

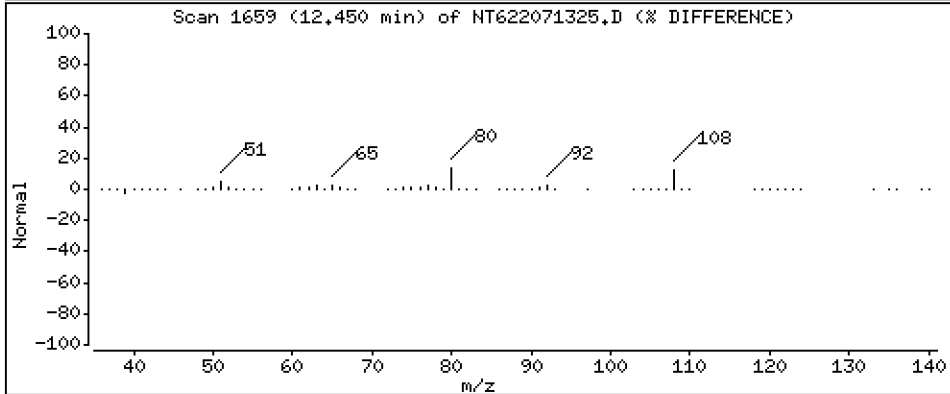
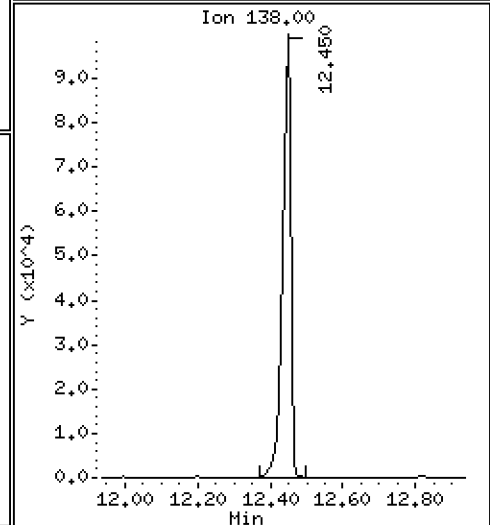
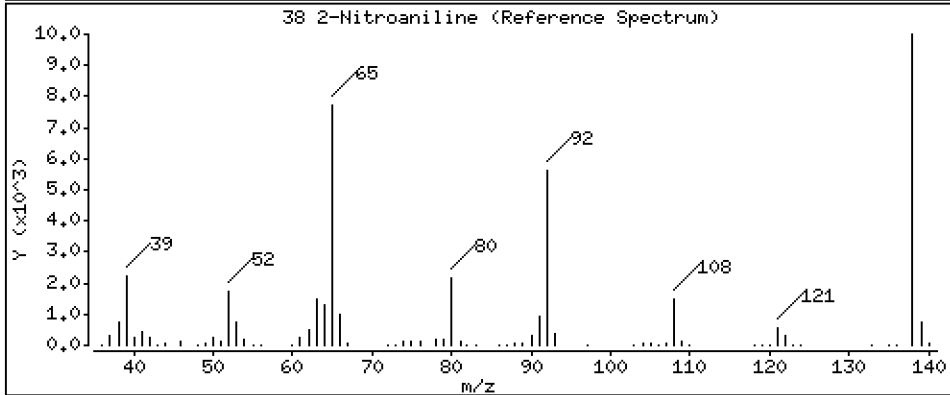
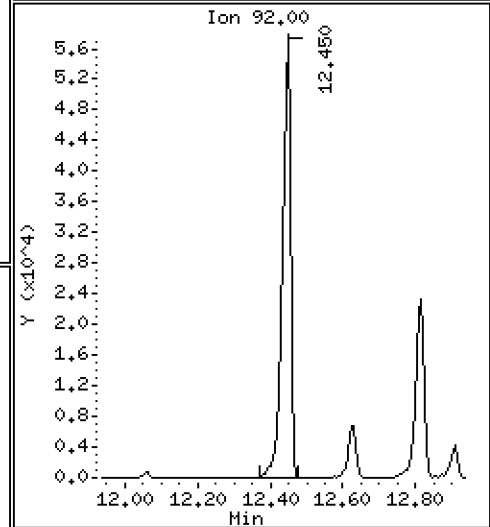
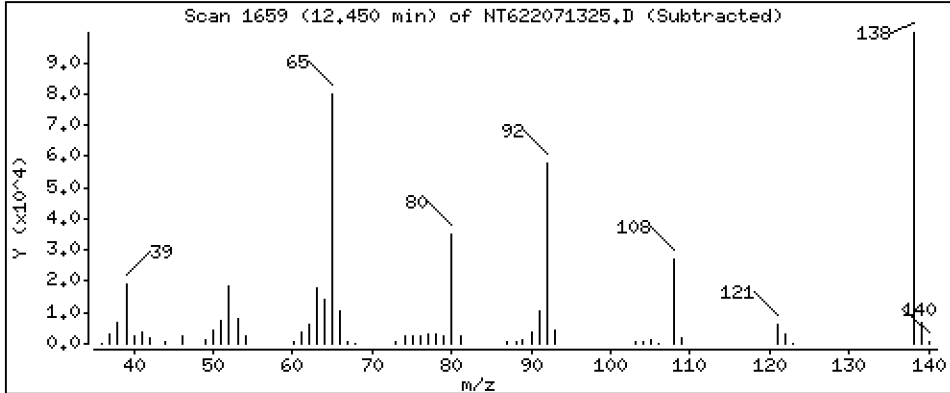
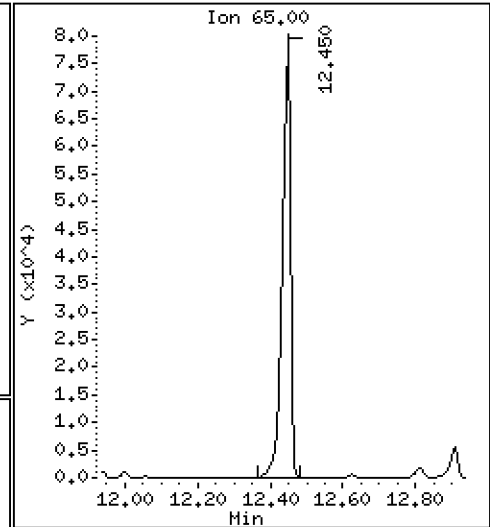
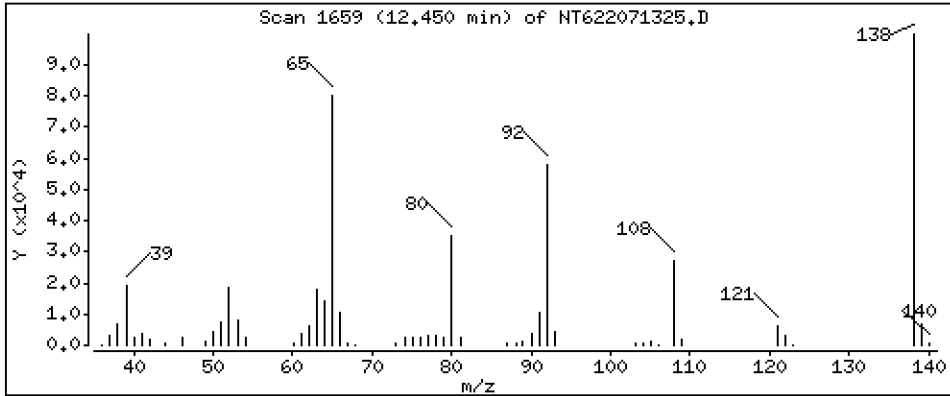
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

38 2-Nitroaniline

Concentration: 67.13 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

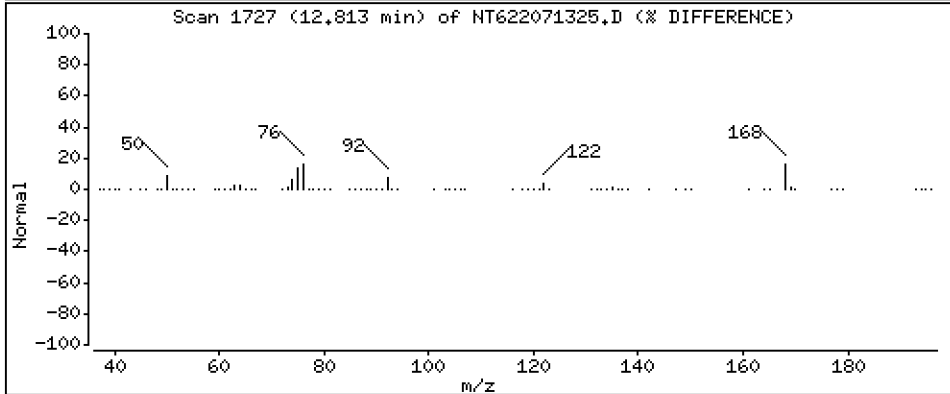
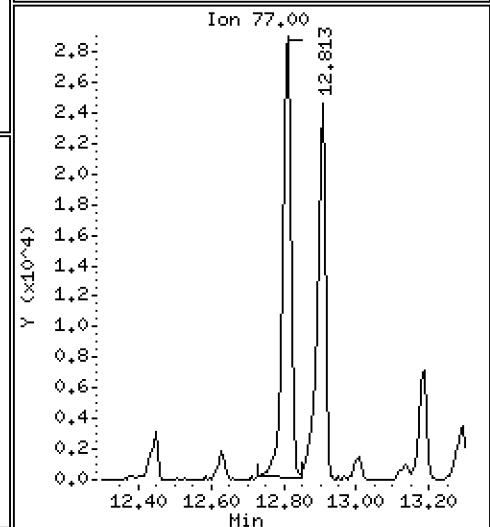
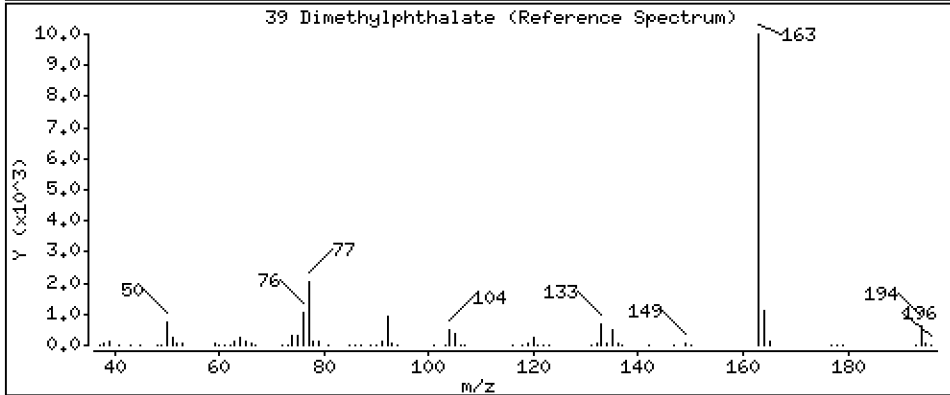
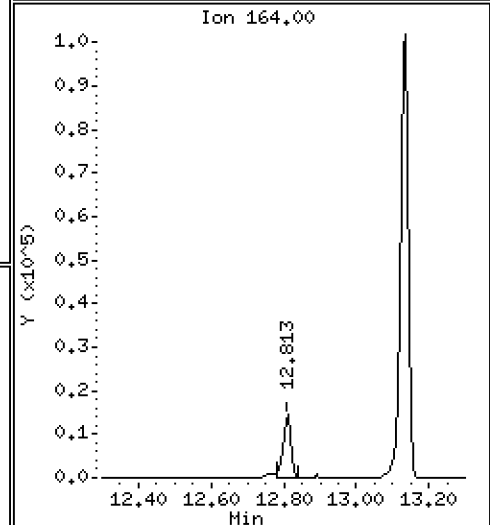
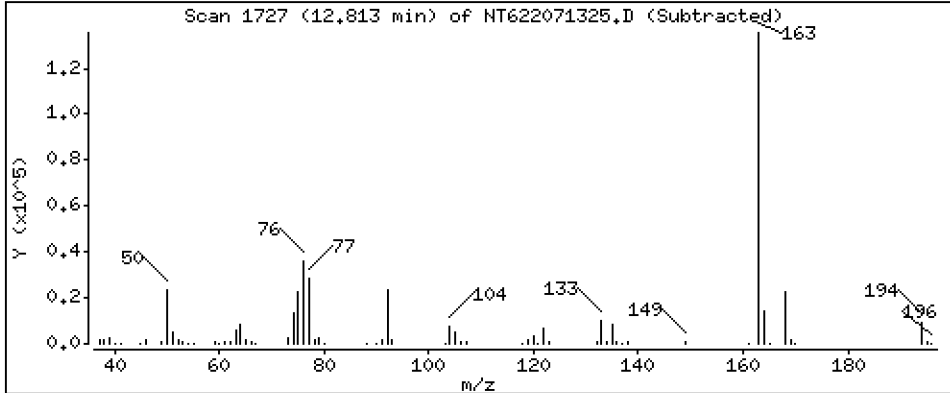
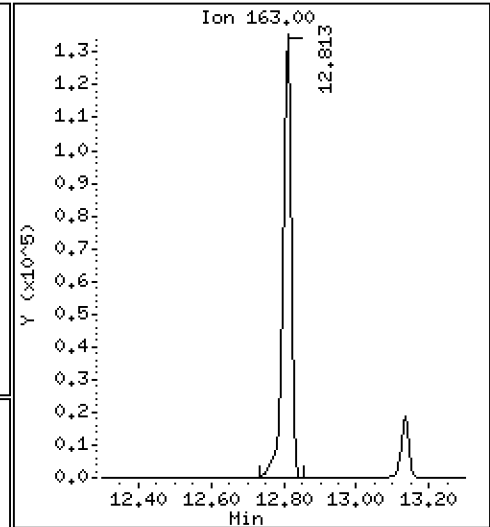
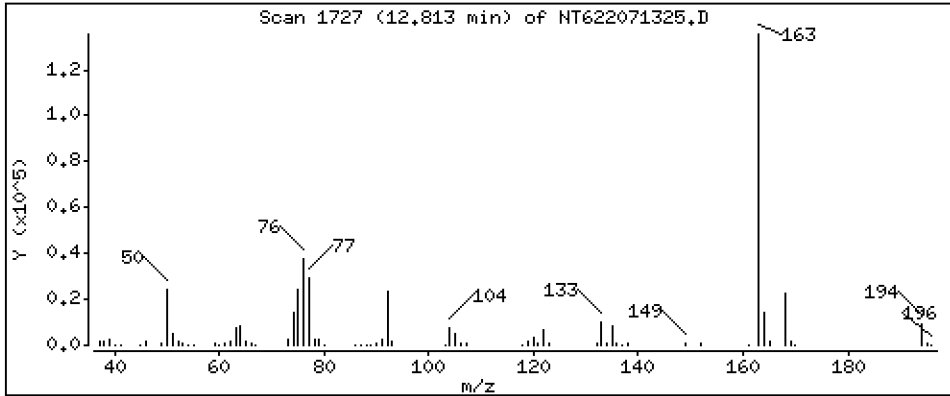
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

39 Dimethylphthalate

Concentration: 26.88 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

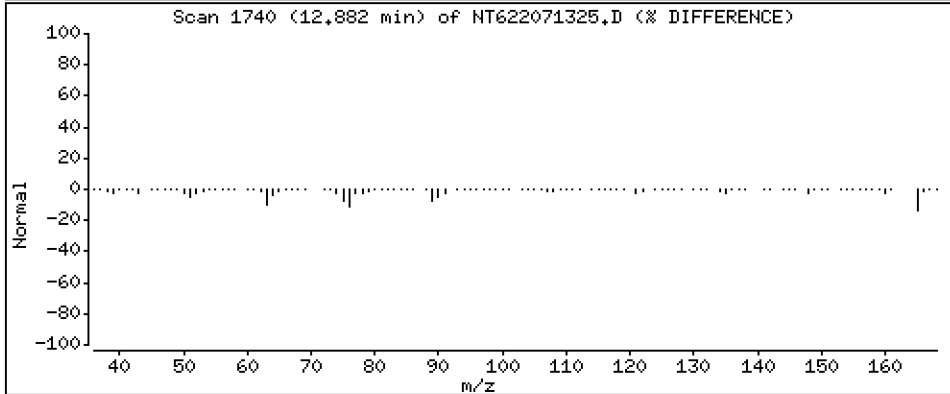
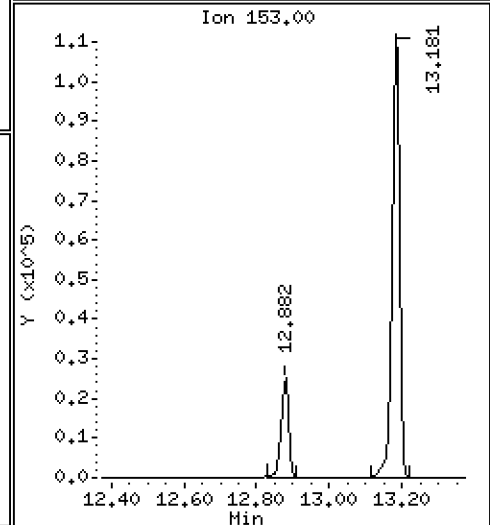
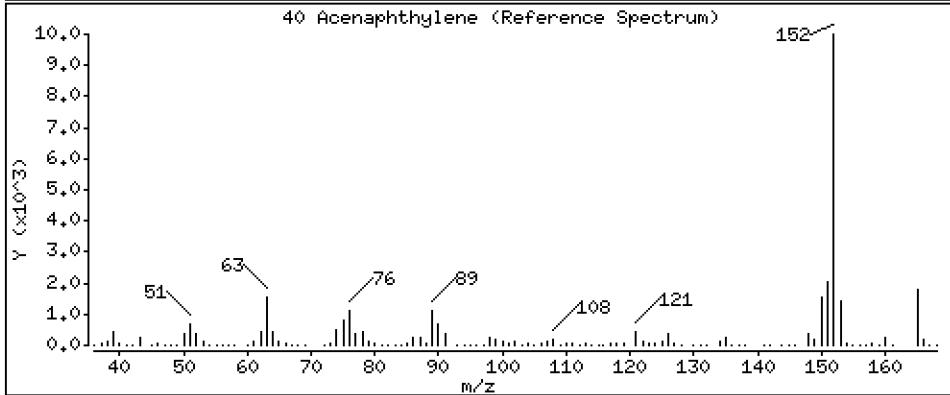
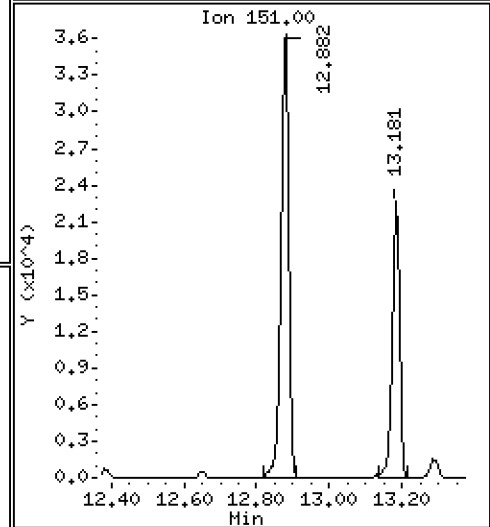
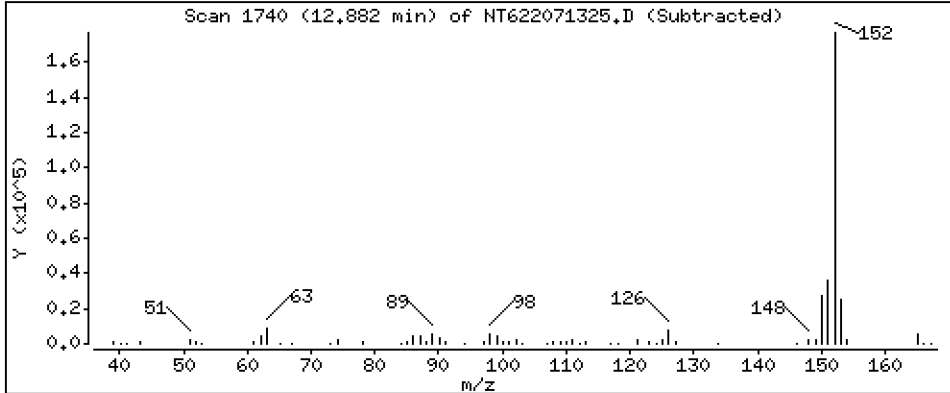
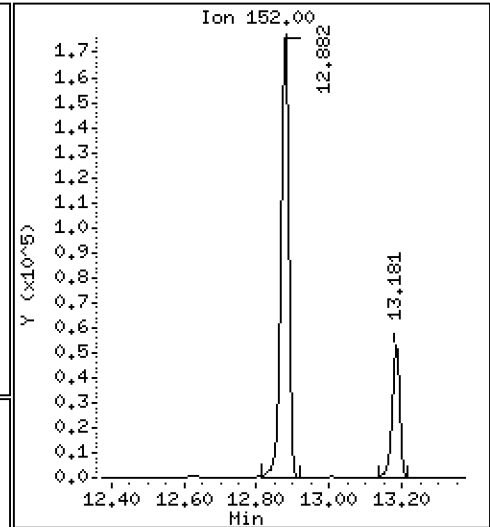
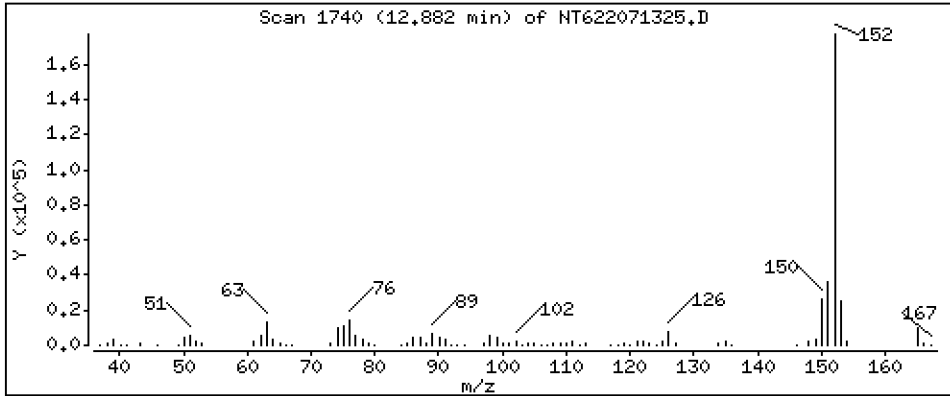
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

40 Acenaphthylene

Concentration: 22.69 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

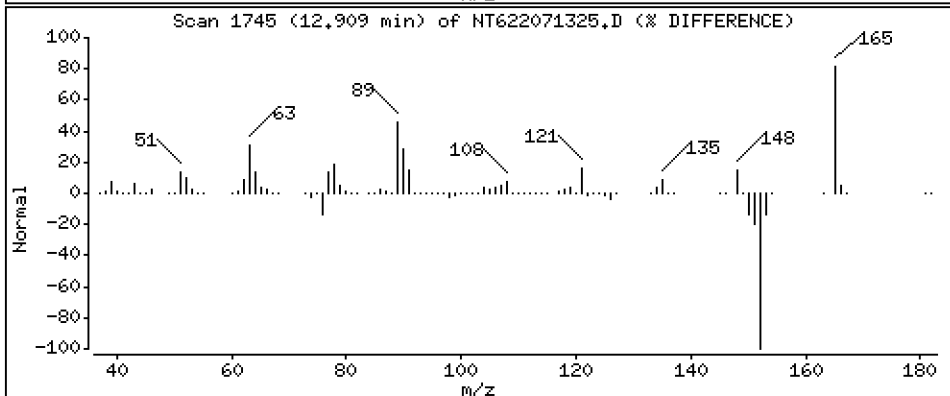
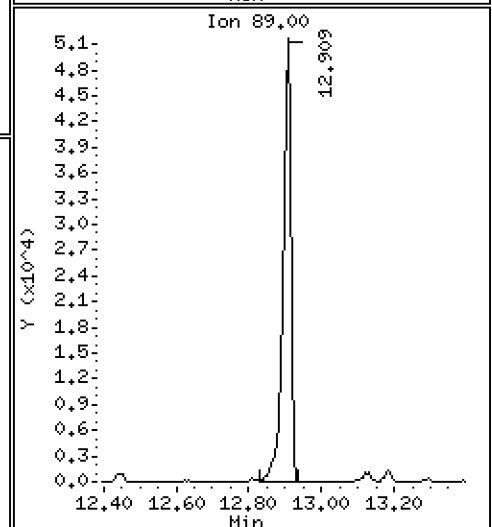
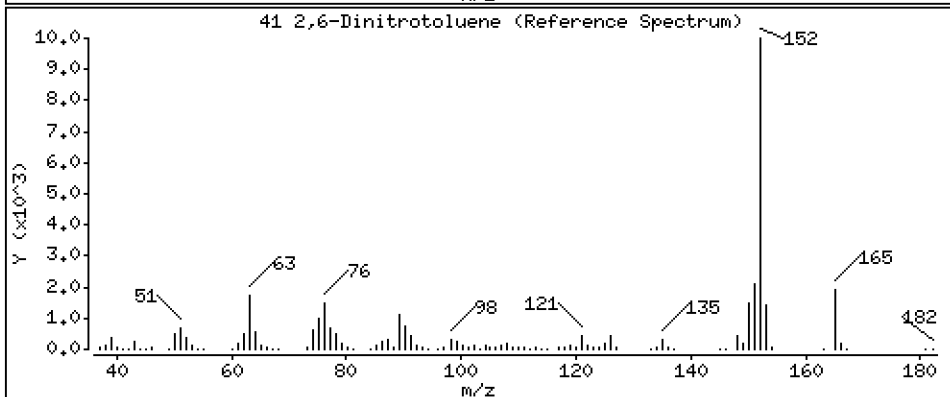
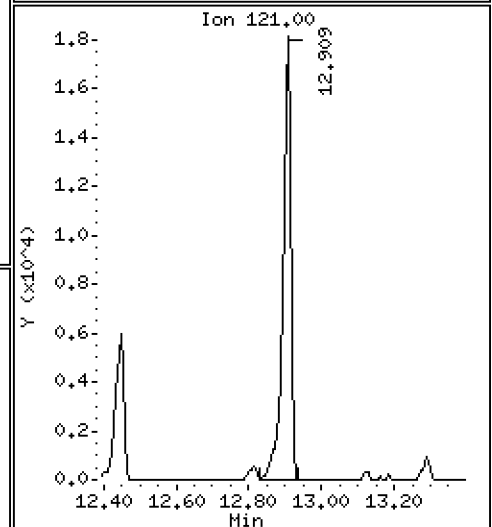
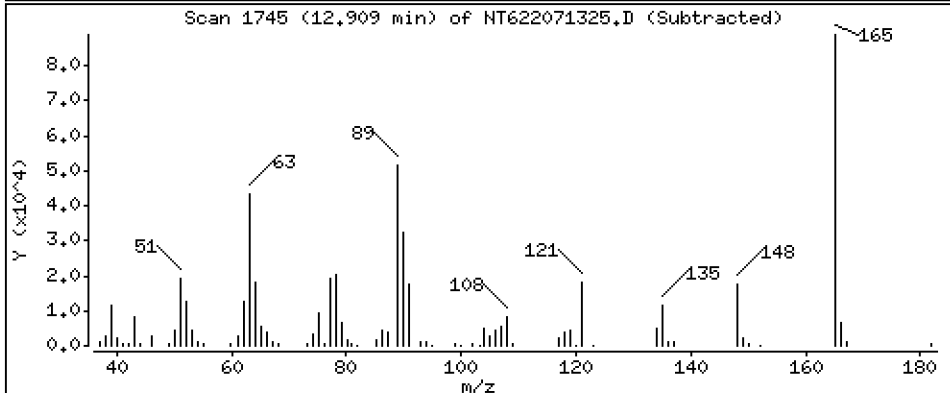
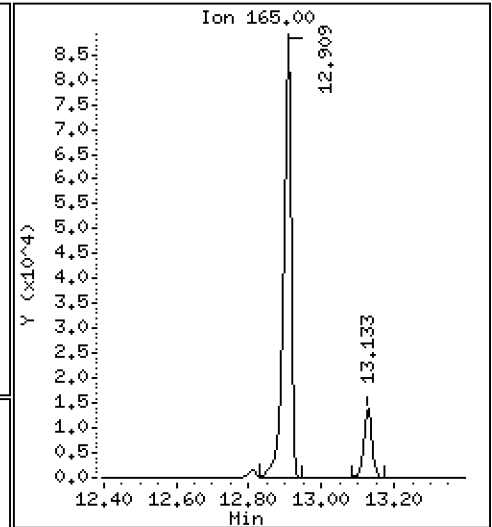
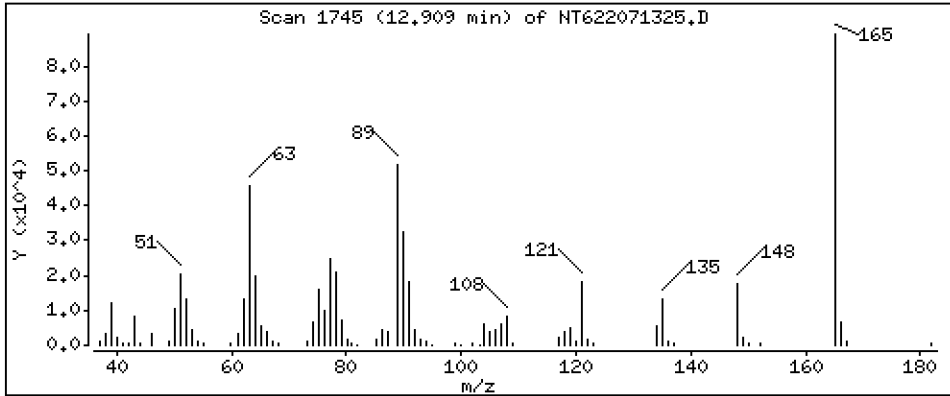
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

41 2,6-Dinitrotoluene

Concentration: 70.17 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

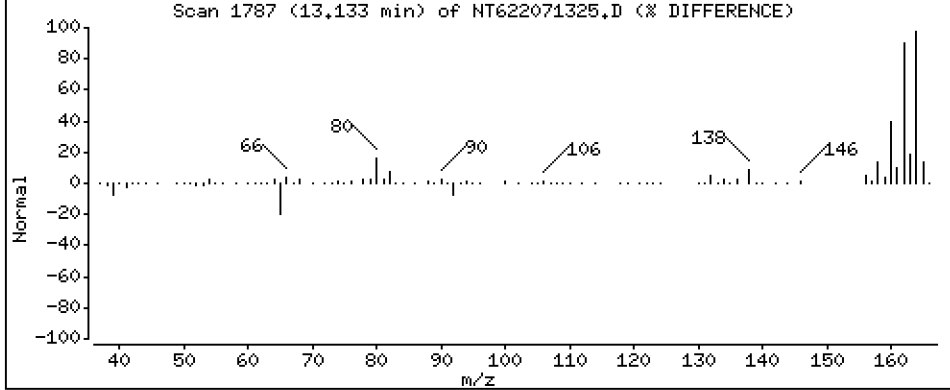
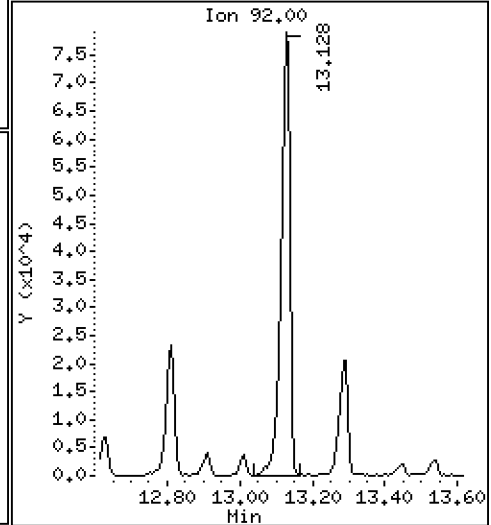
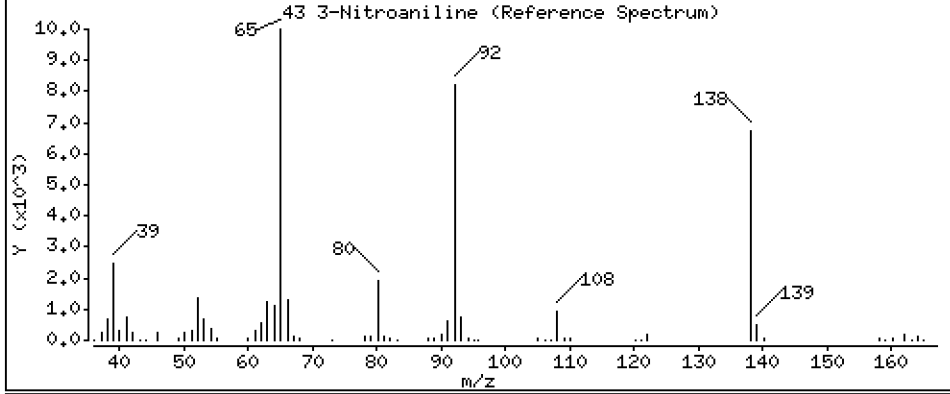
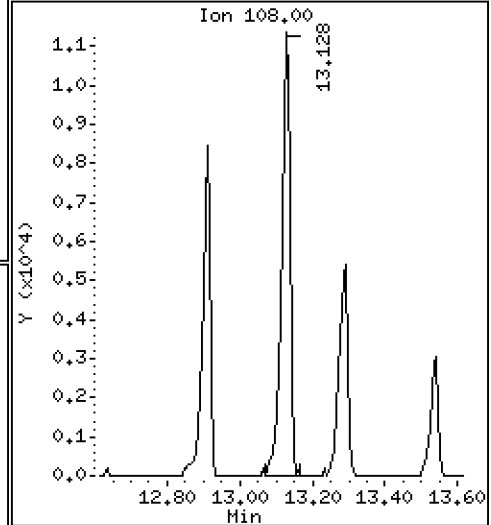
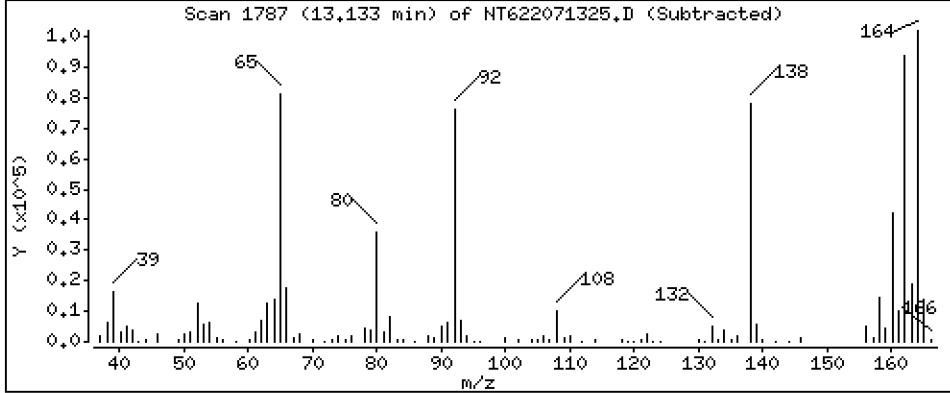
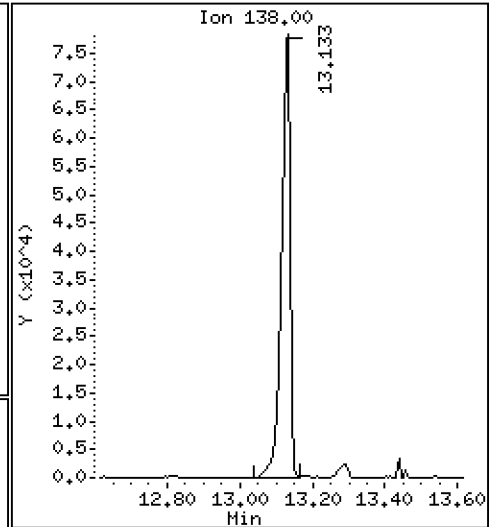
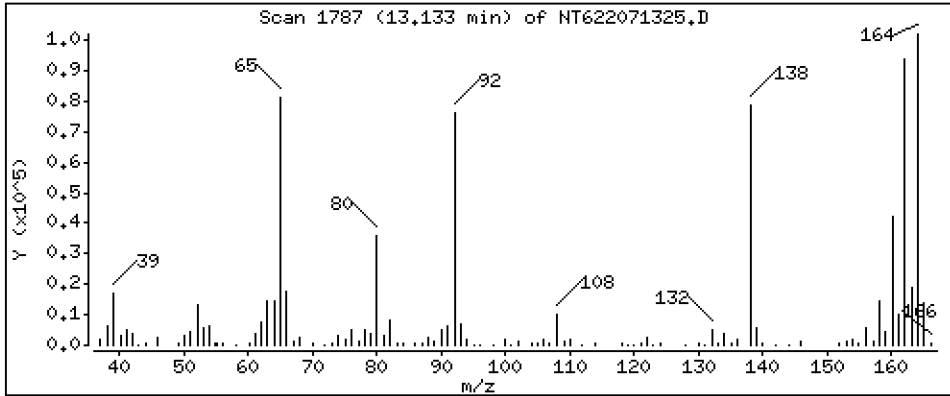
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

43 3-Nitroaniline

Concentration: 72.43 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

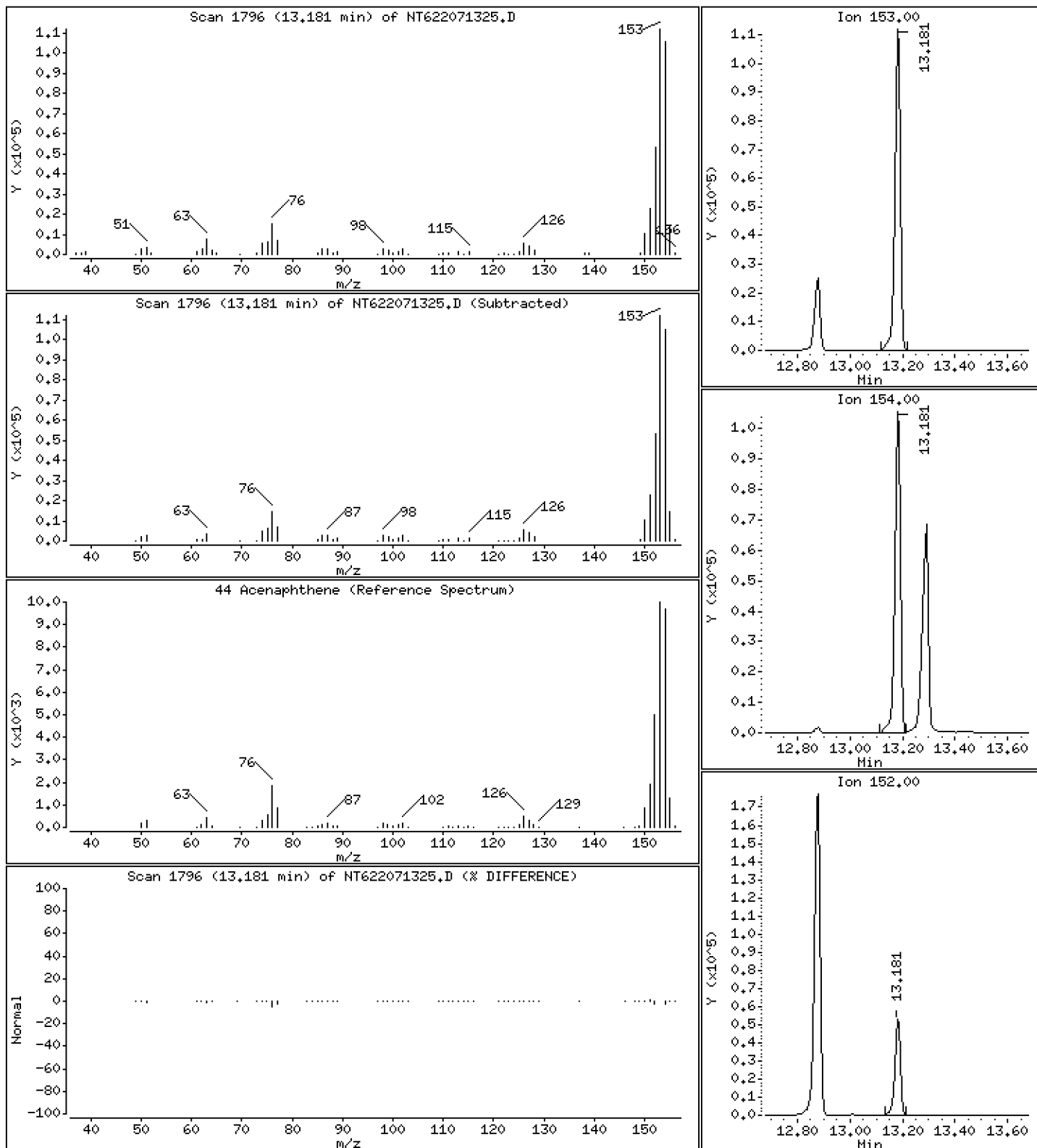
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

44 Acenaphthene

Concentration: 22.60 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

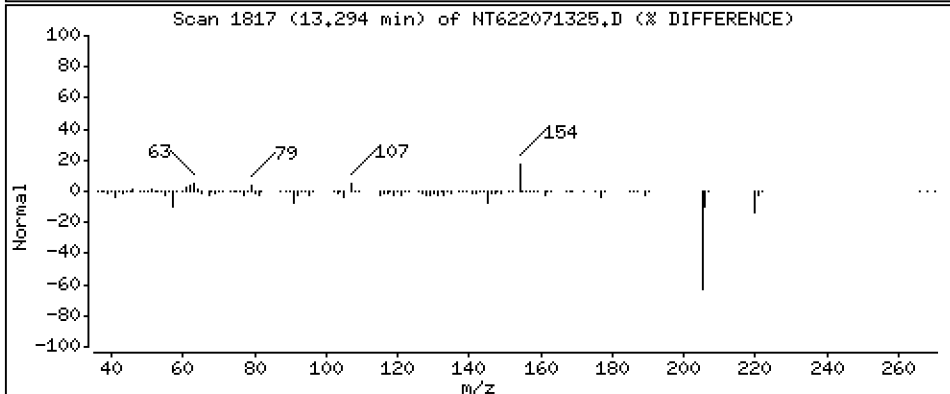
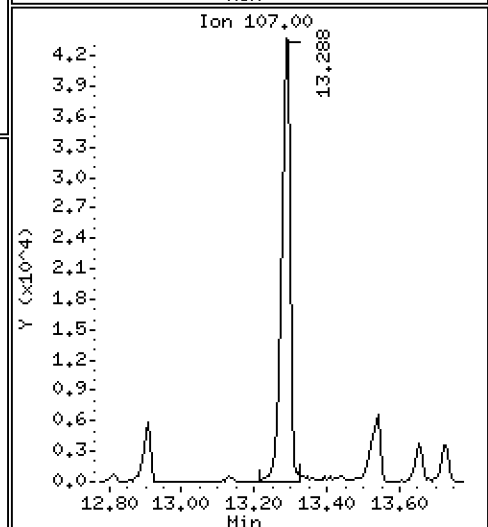
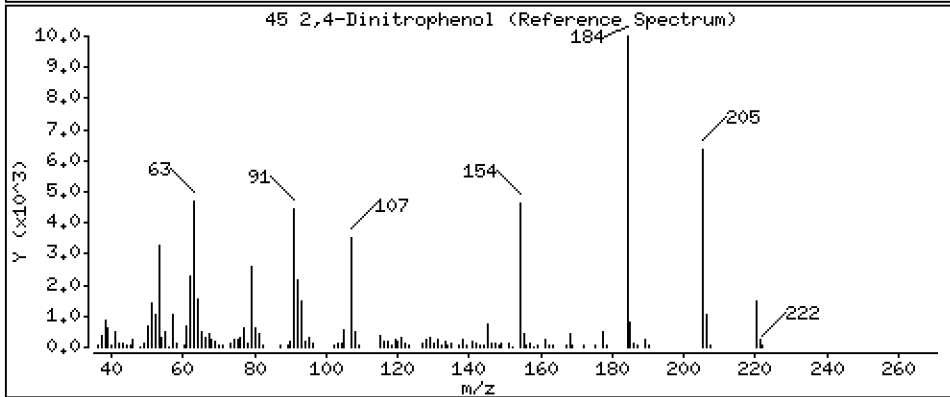
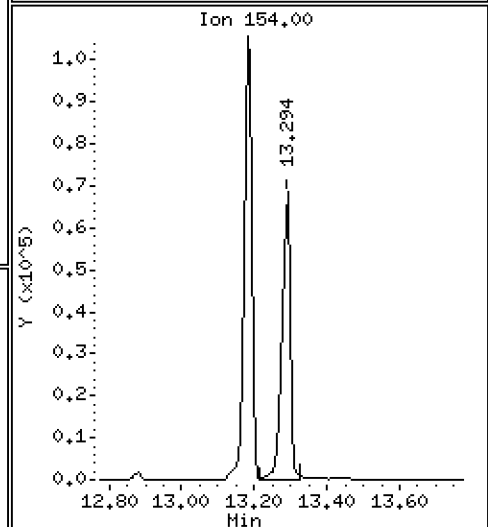
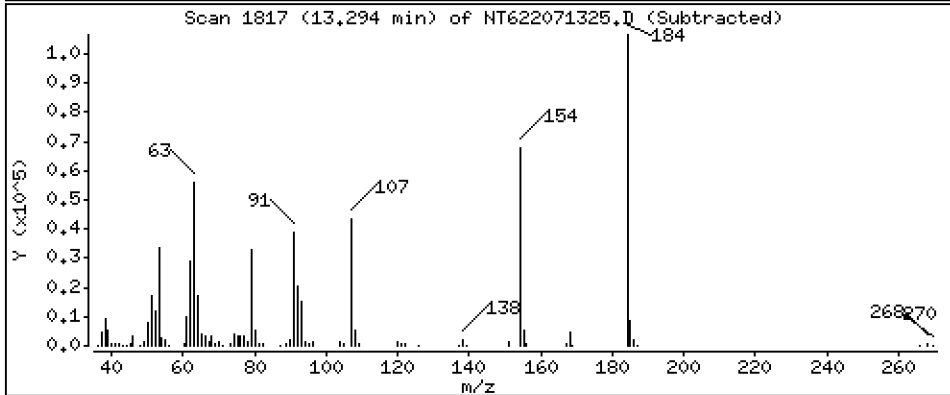
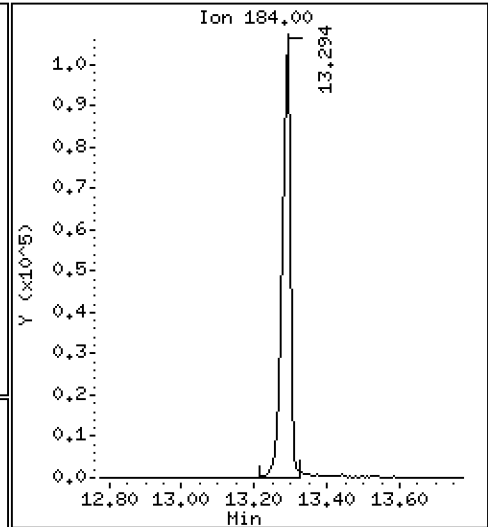
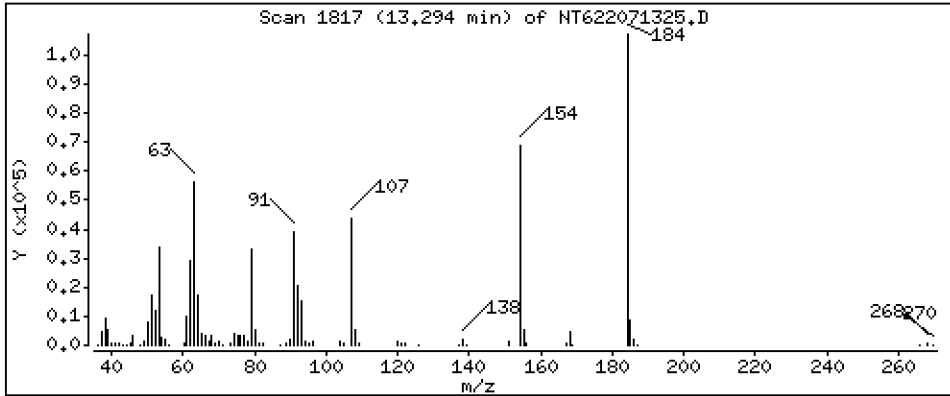
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

45 2,4-Dinitrophenol

Concentration: 128,5 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

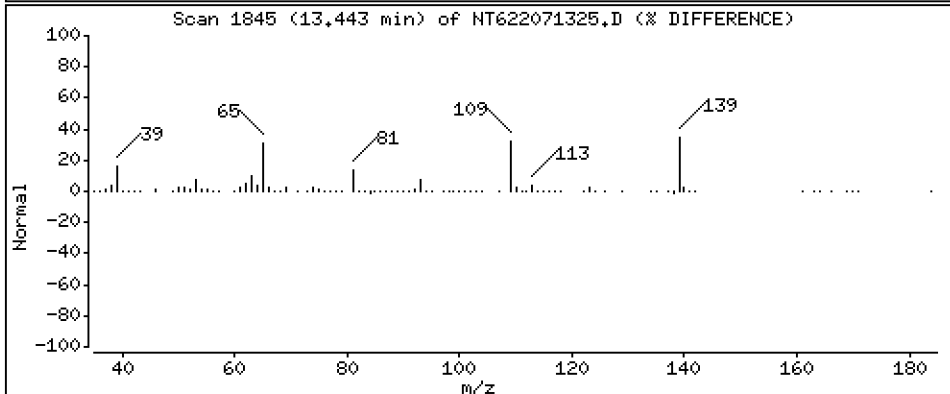
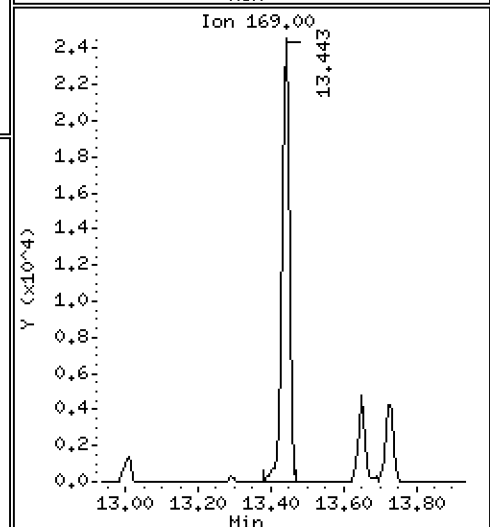
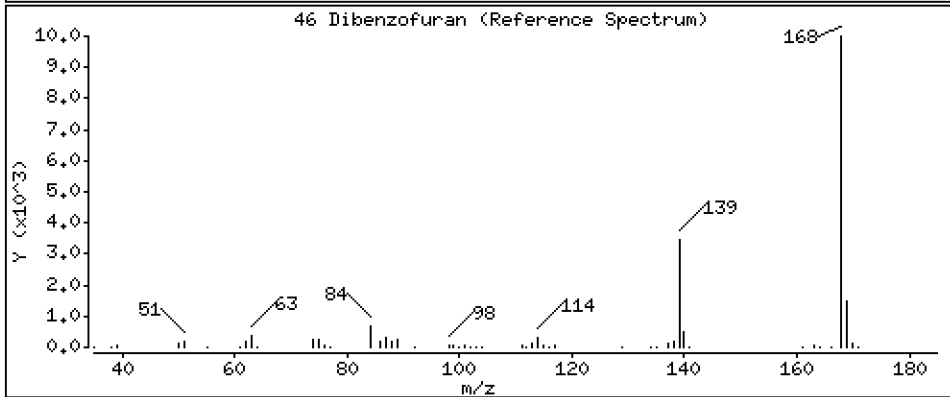
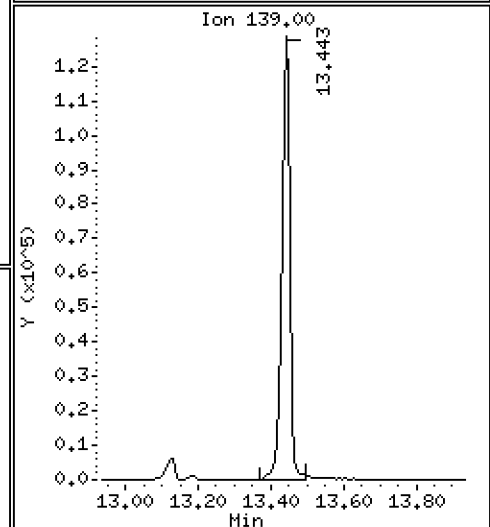
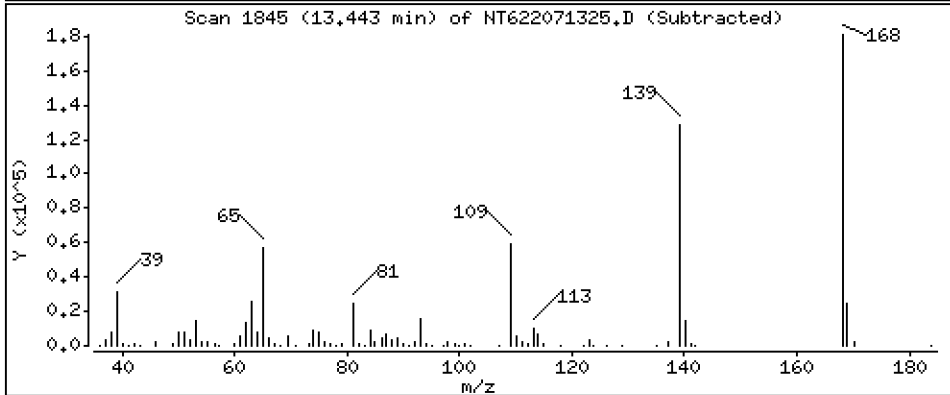
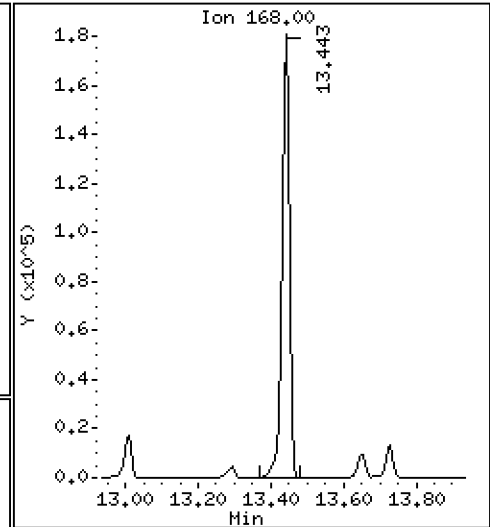
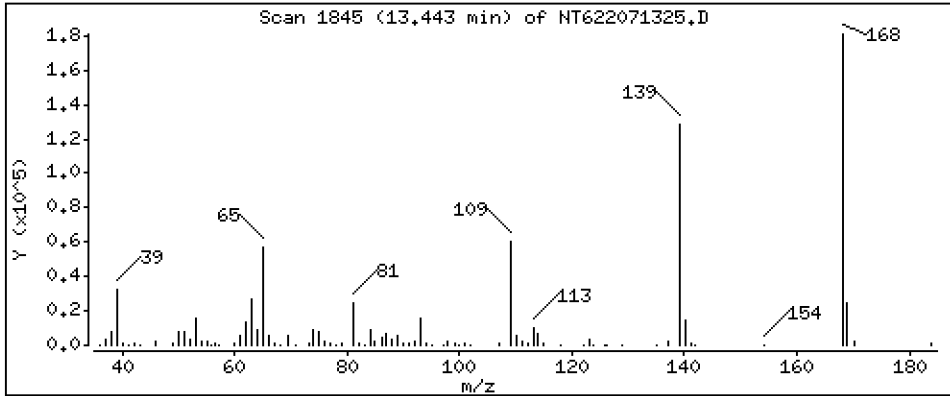
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

46 Dibenzofuran

Concentration: 25.25 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

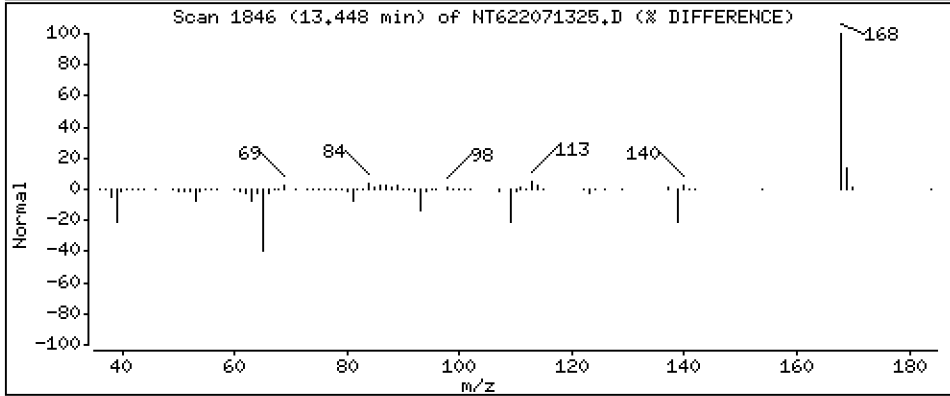
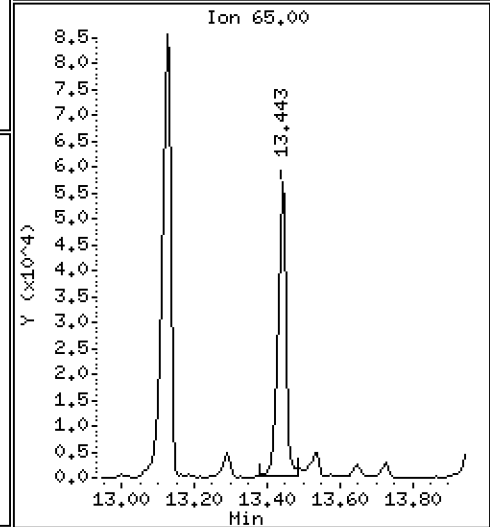
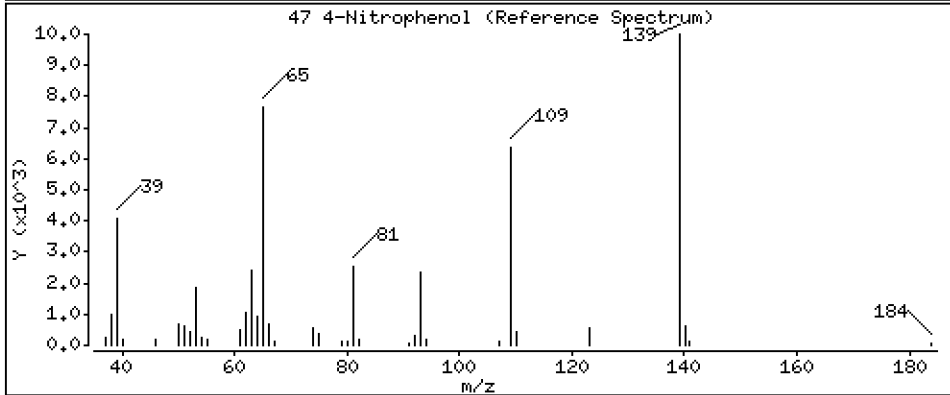
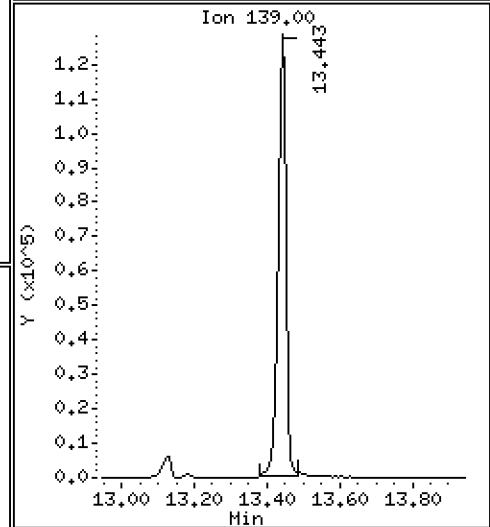
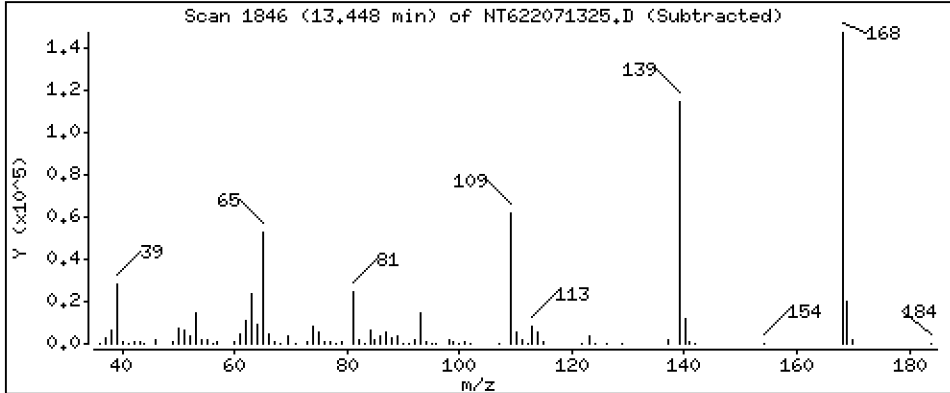
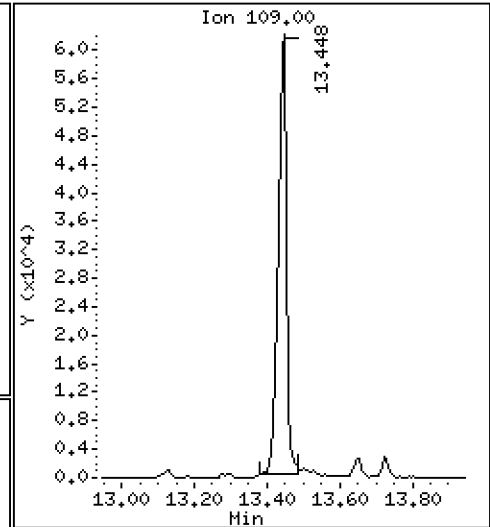
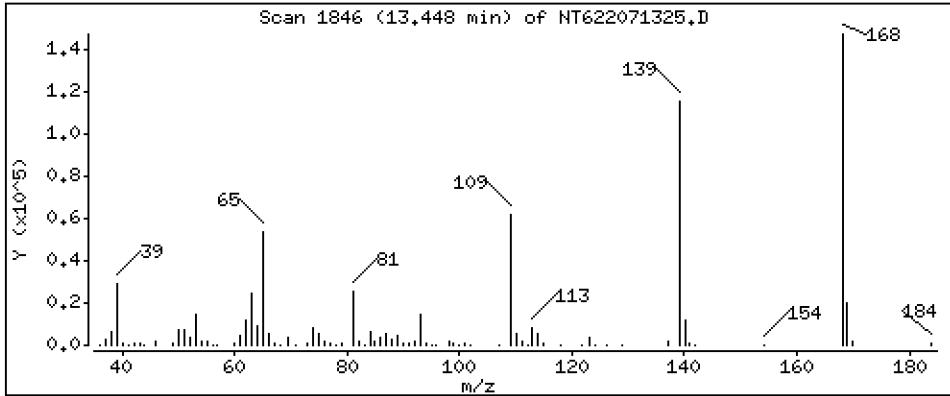
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

47 4-Nitrophenol

Concentration: 75.48 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

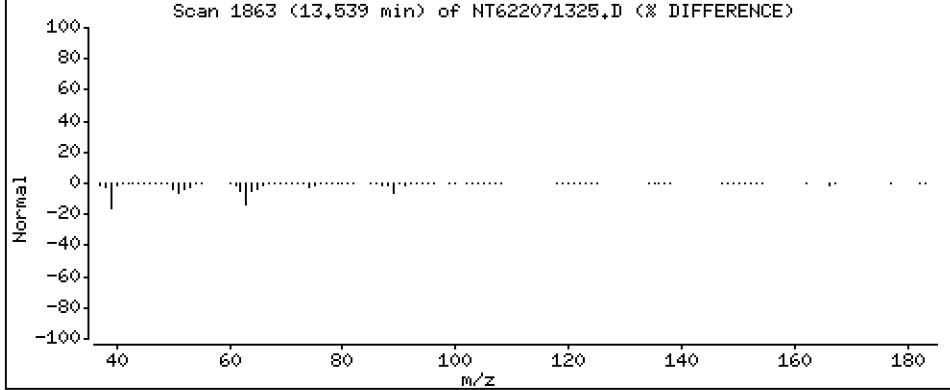
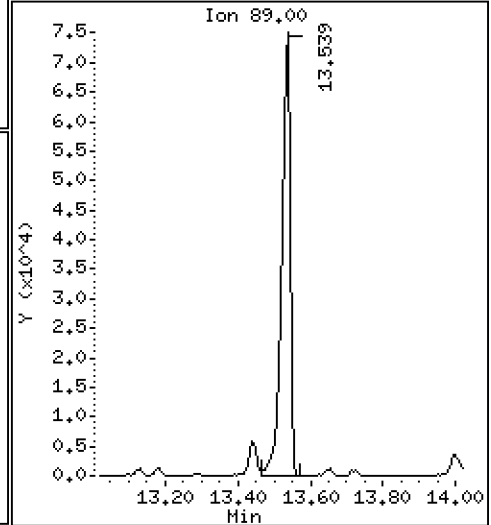
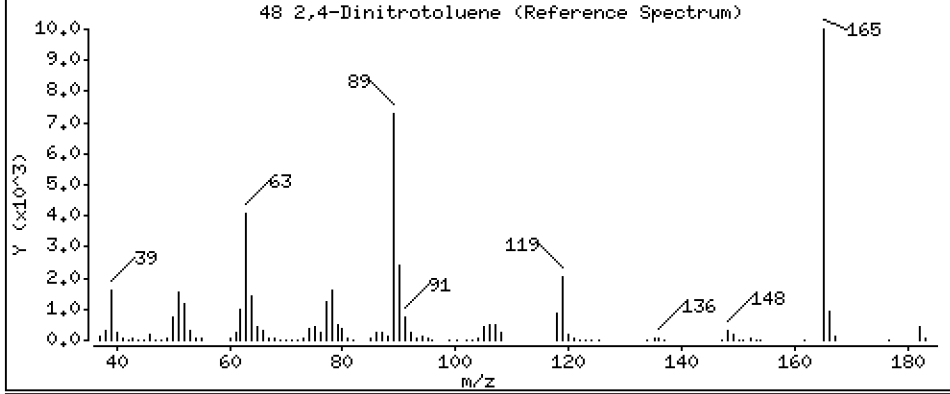
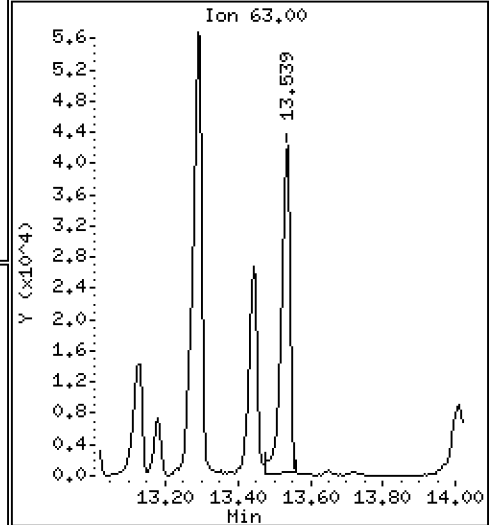
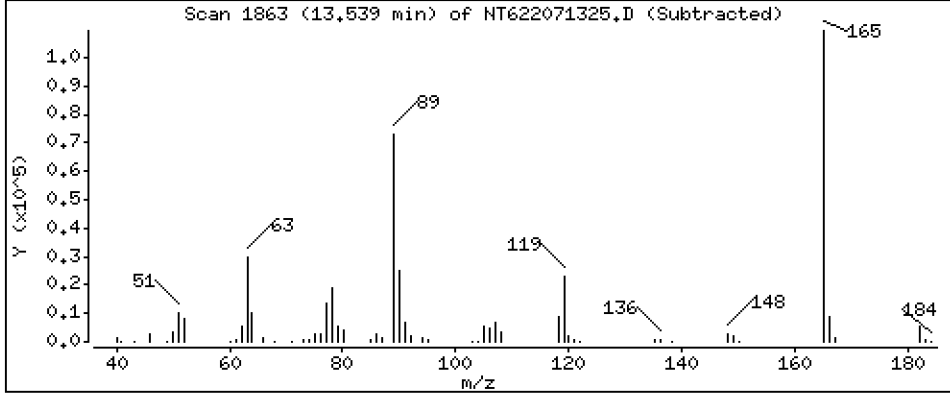
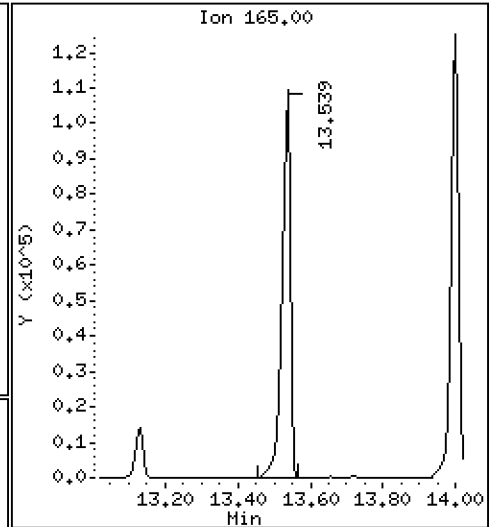
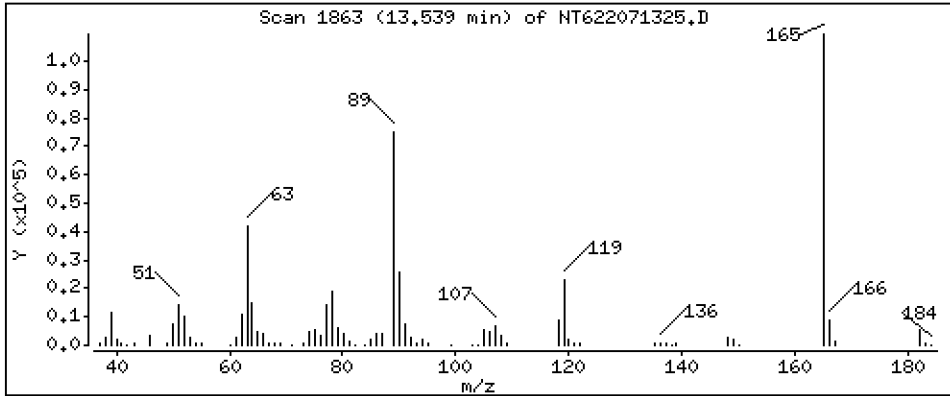
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

48 2,4-Dinitrotoluene

Concentration: 73.48 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BK00169-BSD1,

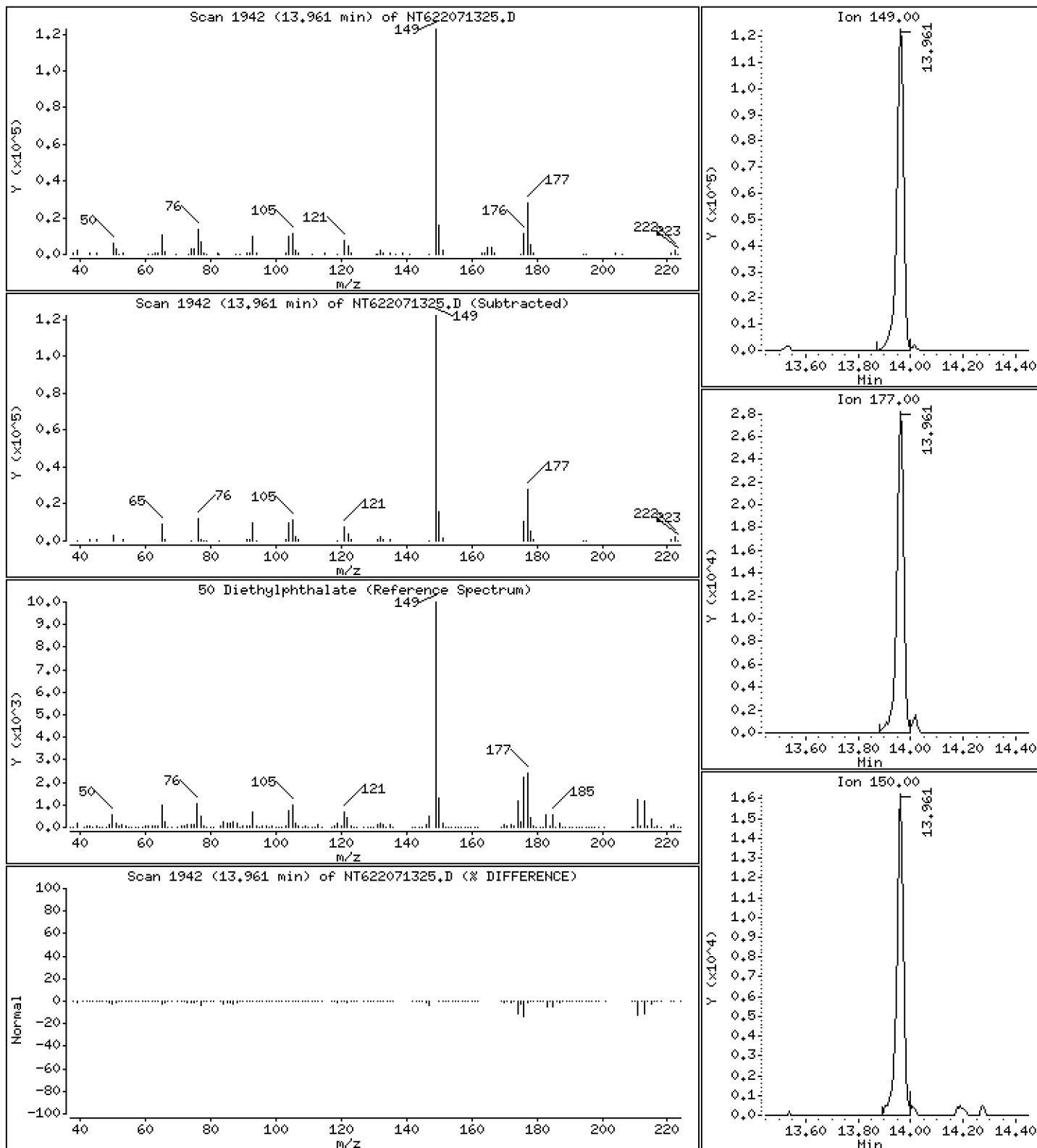
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

50 Diethylphthalate

Concentration: 29.19 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

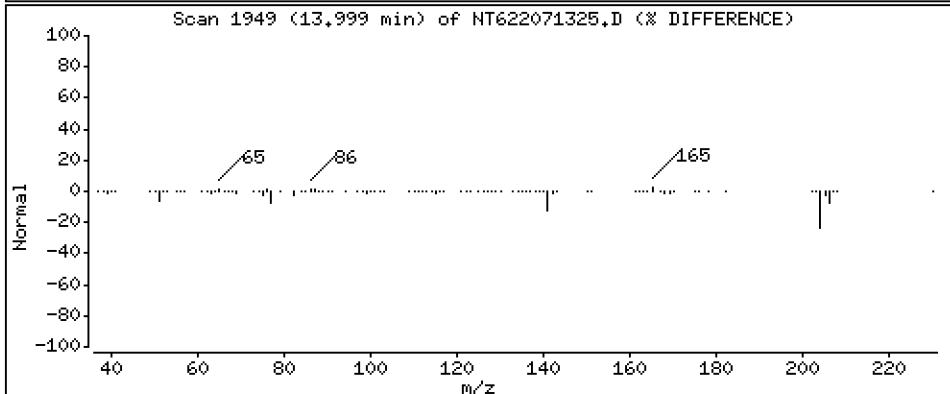
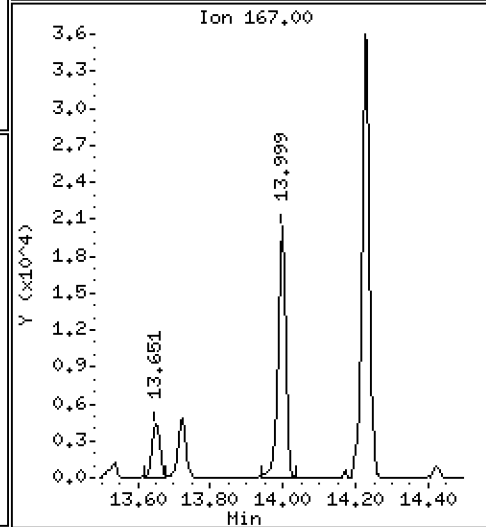
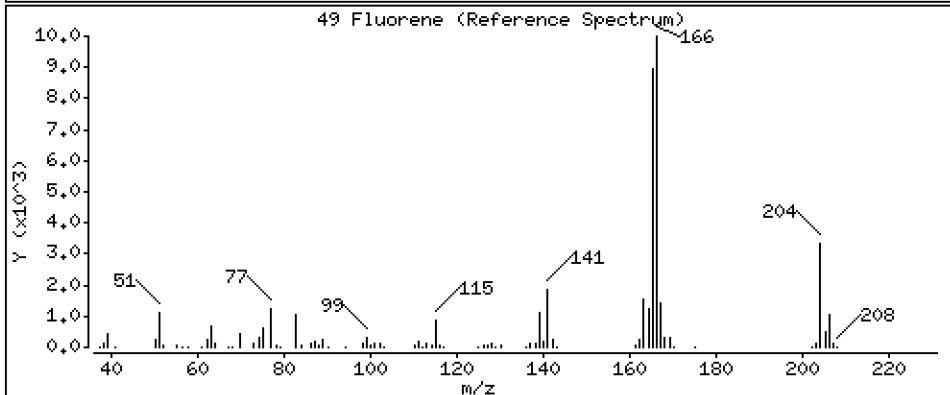
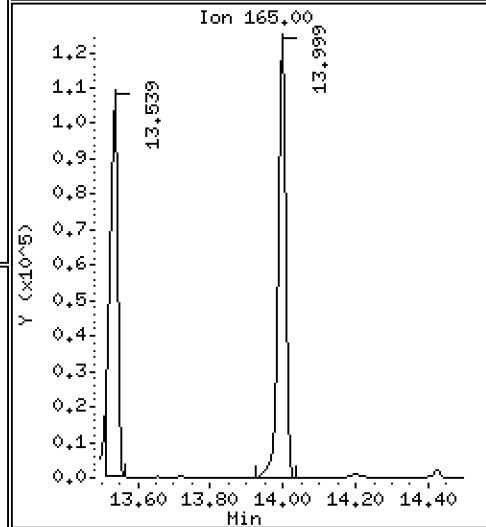
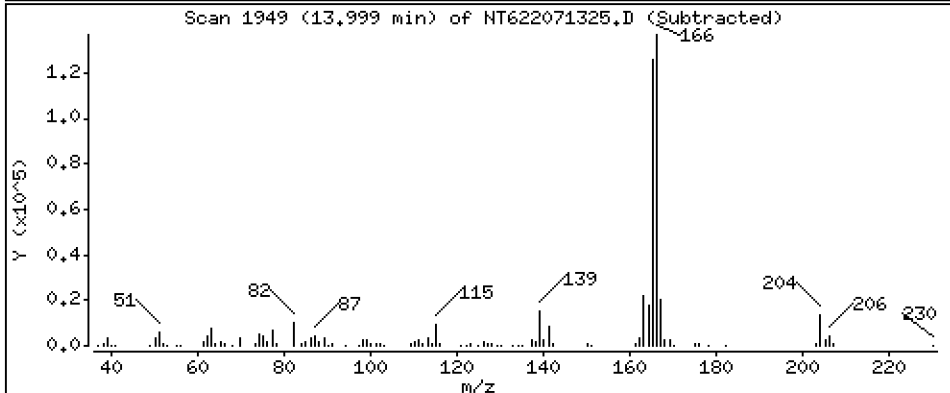
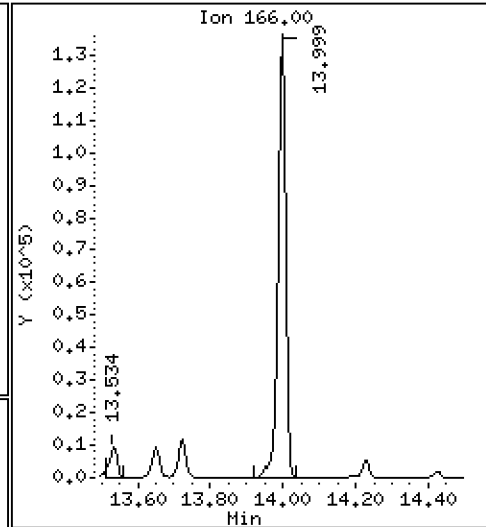
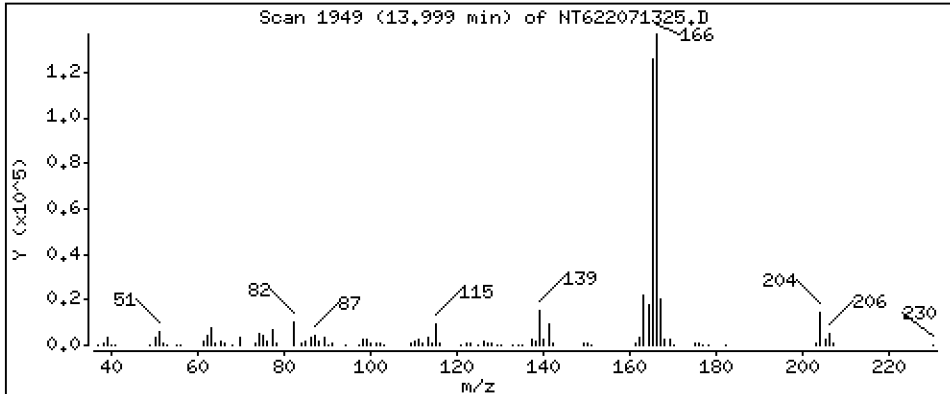
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

49 Fluorene

Concentration: 24.62 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

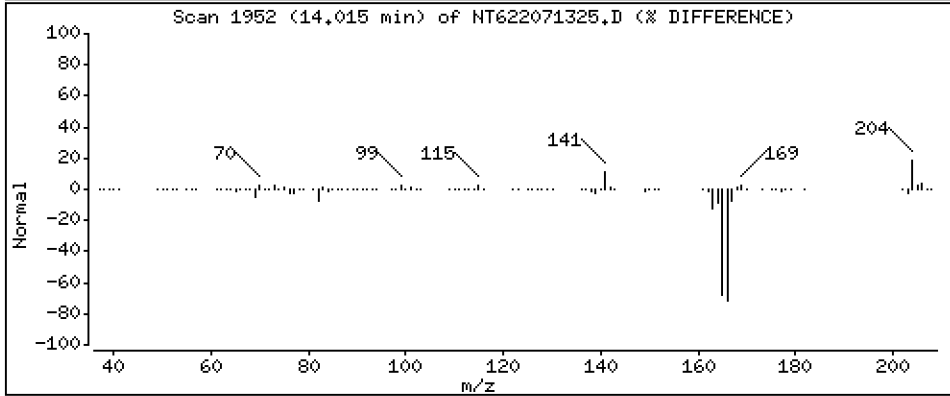
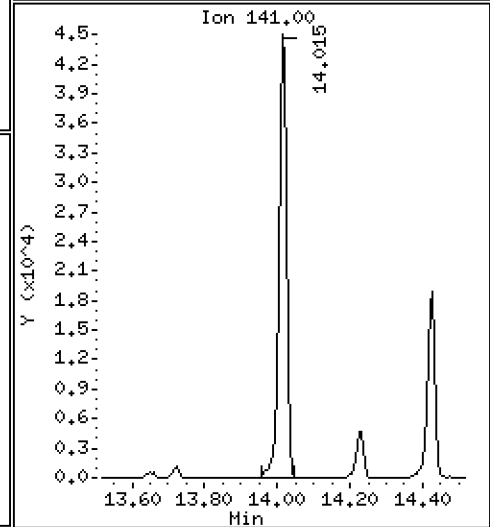
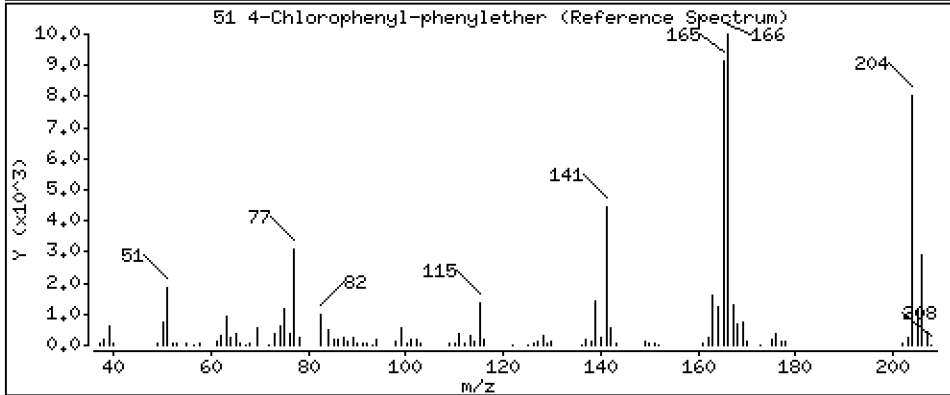
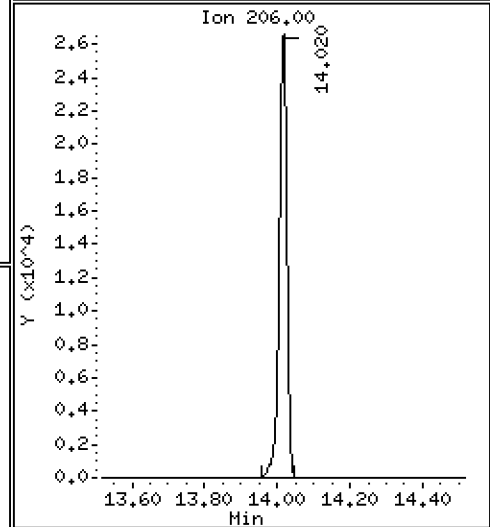
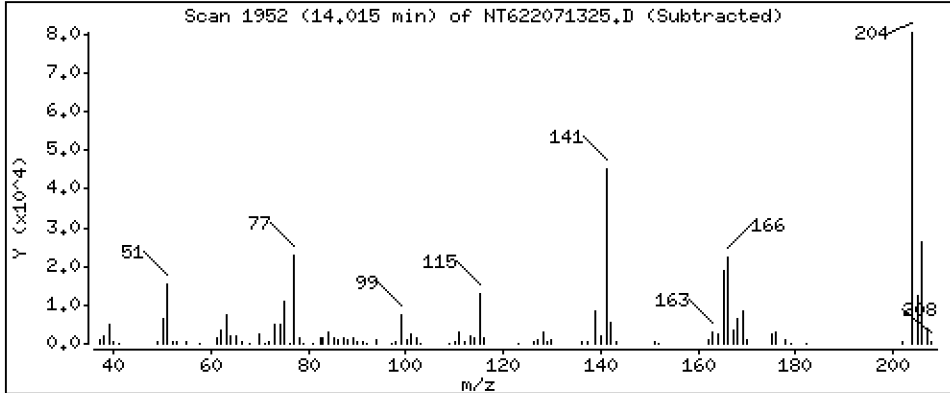
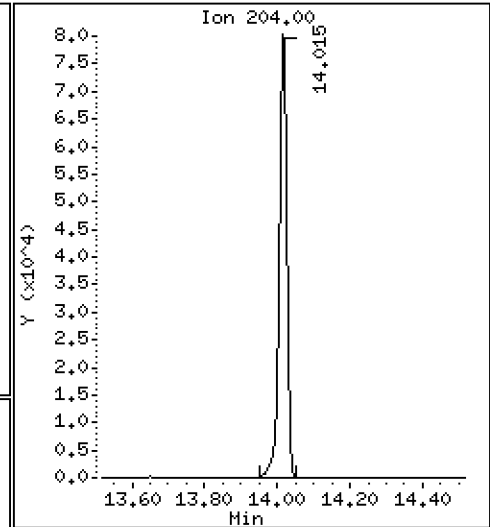
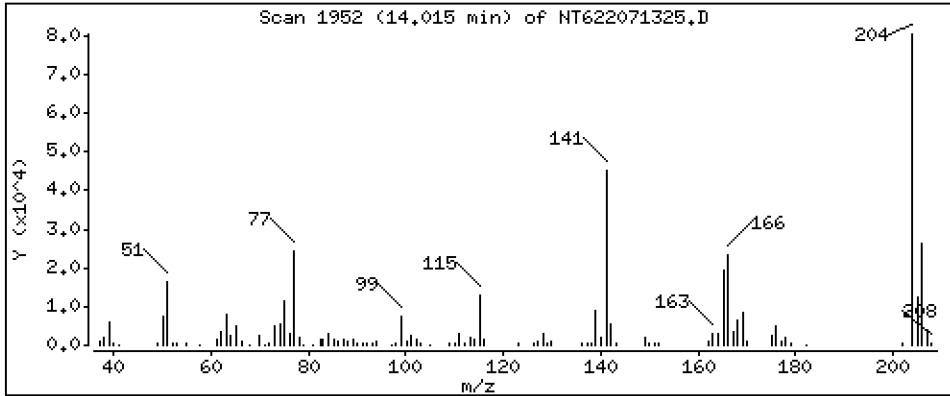
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

51 4-Chlorophenyl-phenylether

Concentration: 25.68 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

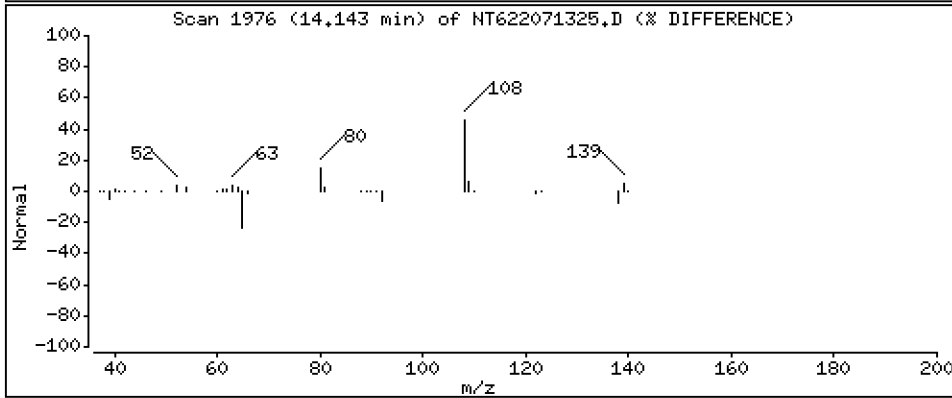
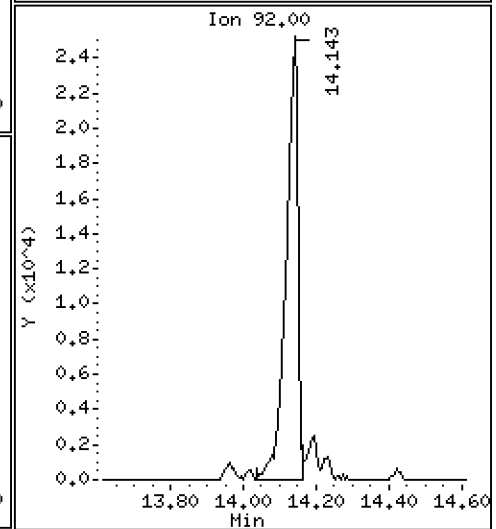
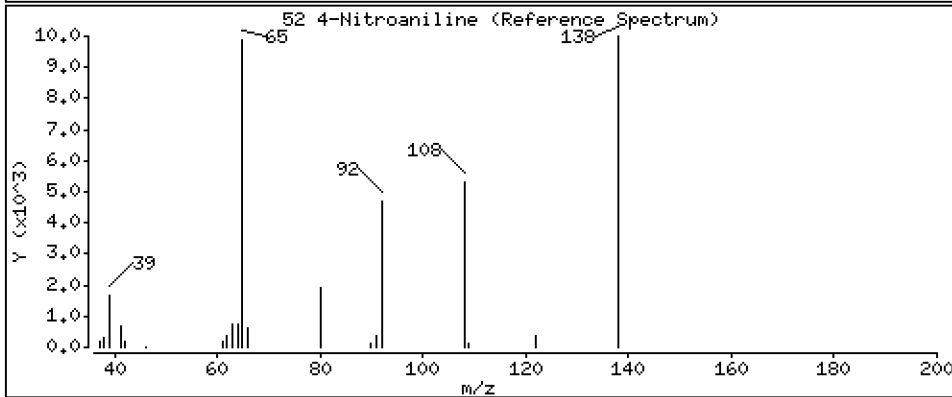
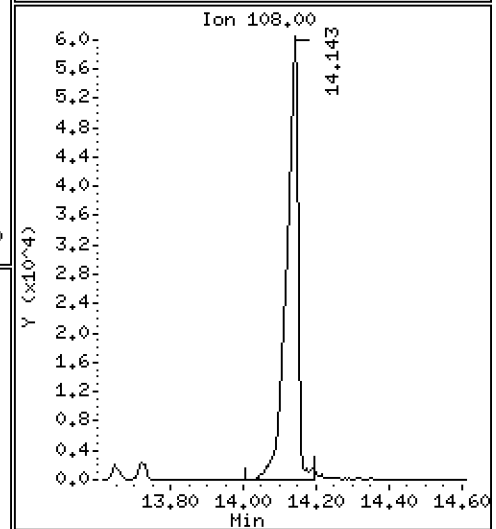
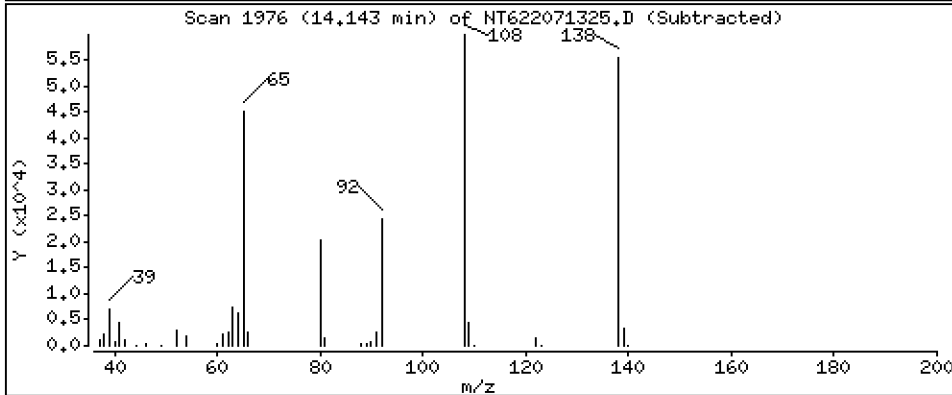
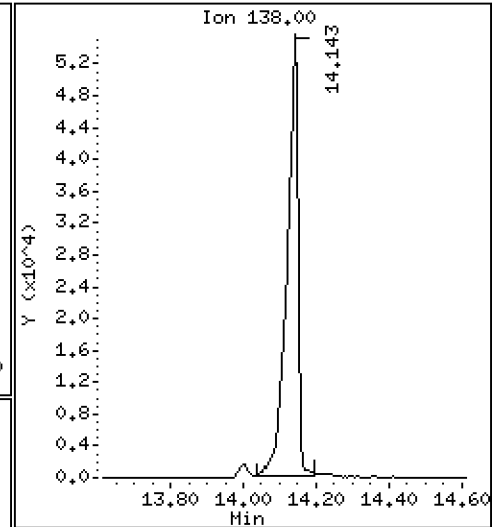
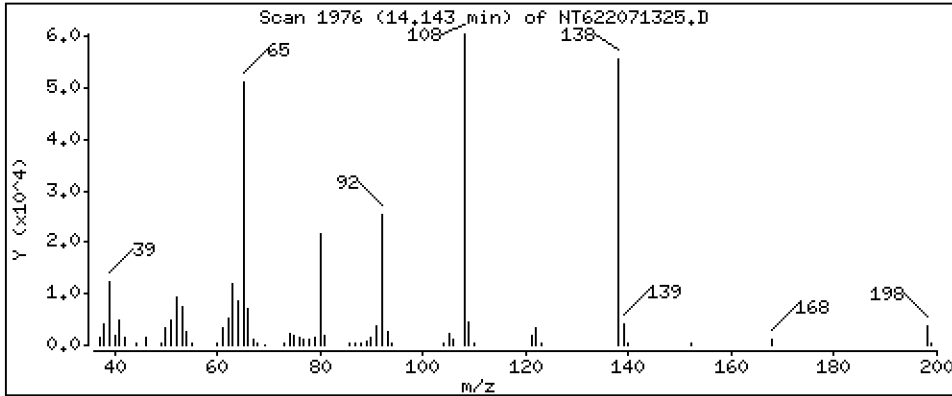
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

52 4-Nitroaniline

Concentration: 72.64 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

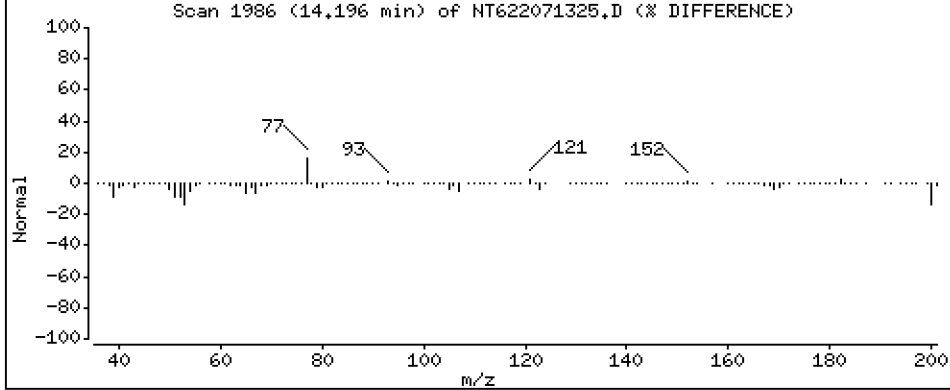
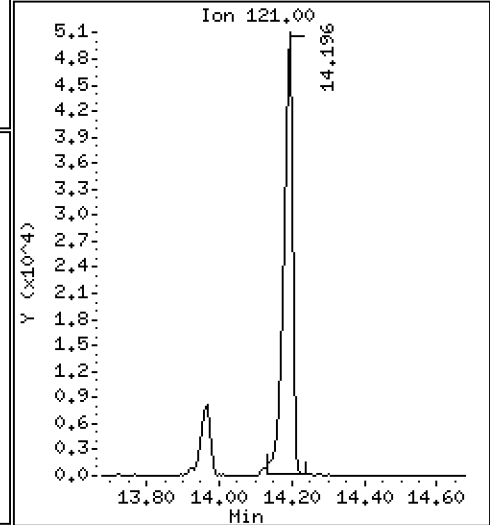
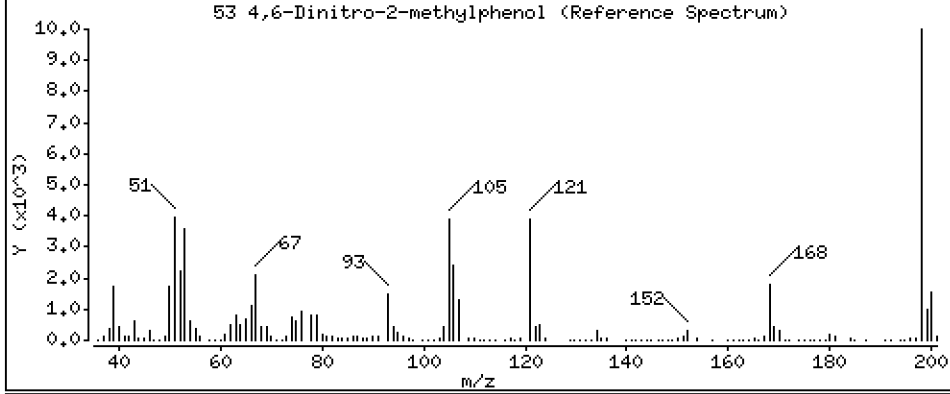
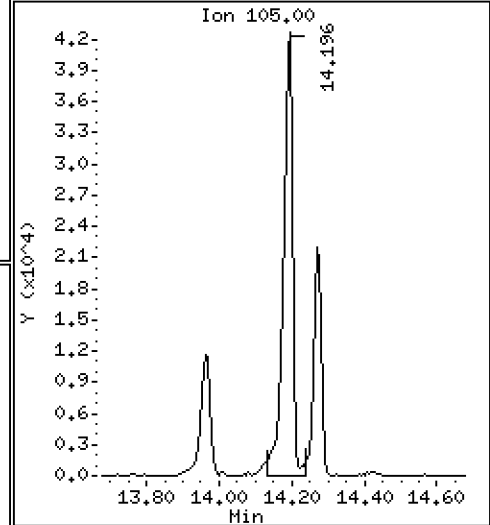
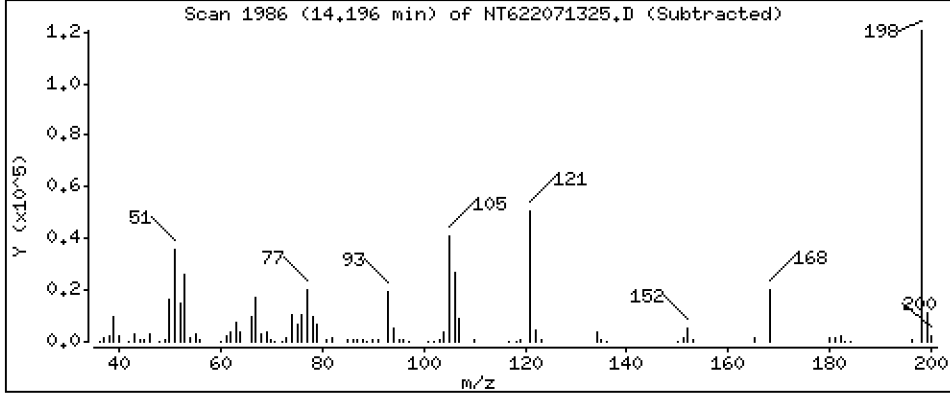
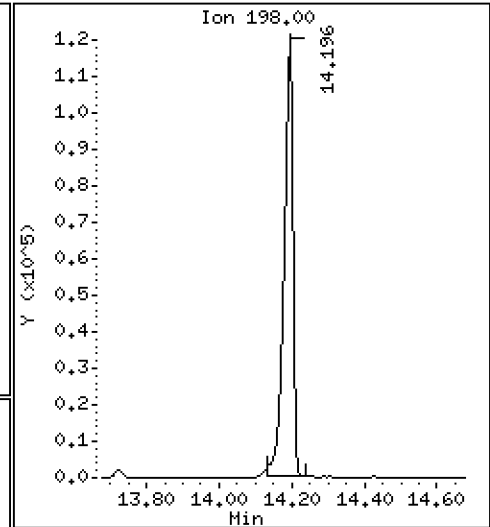
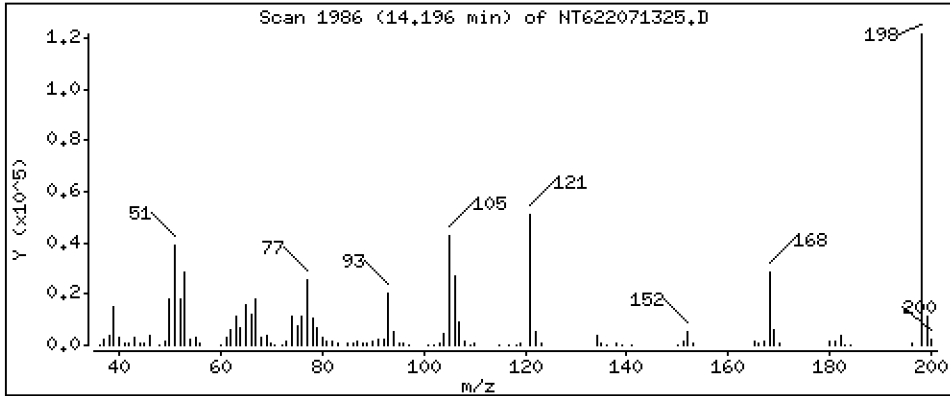
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

53 4,6-Dinitro-2-methylphenol

Concentration: 125.4 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

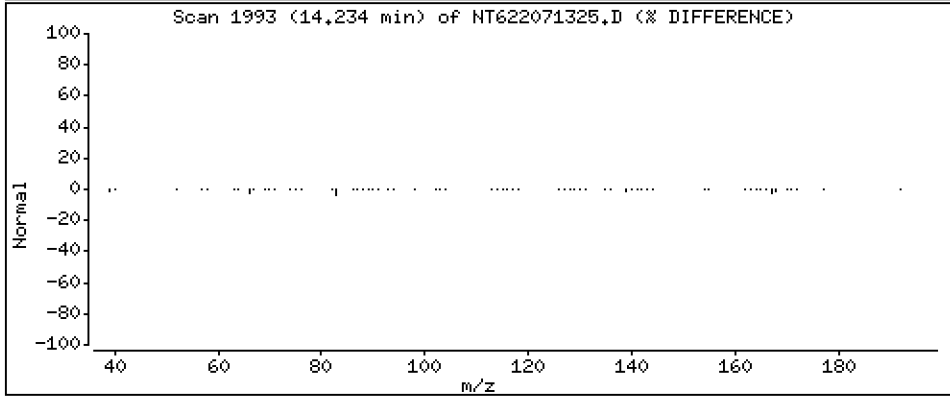
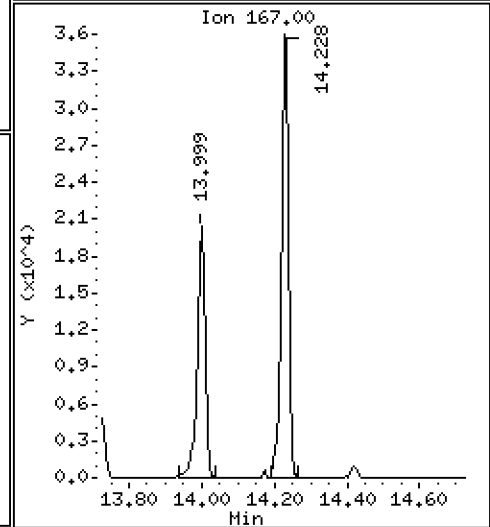
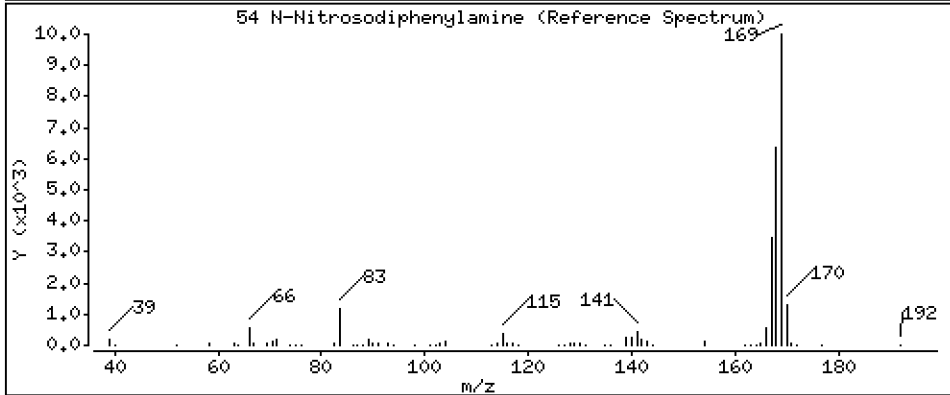
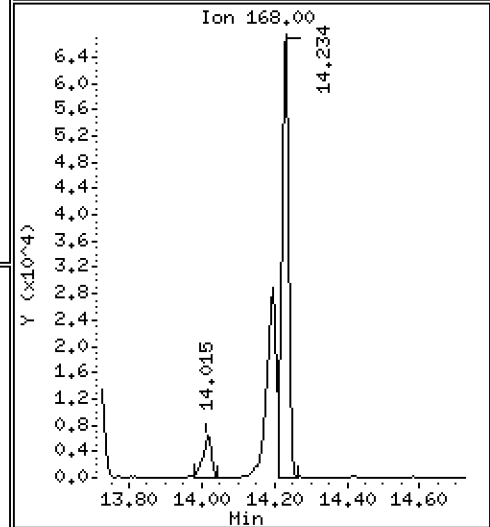
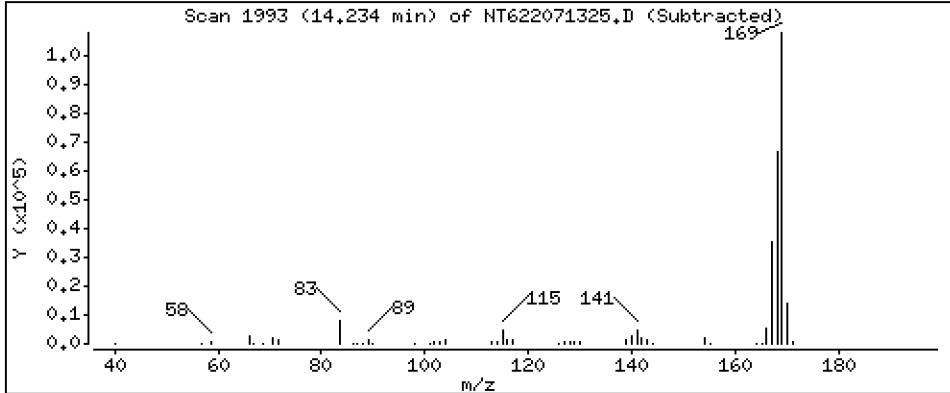
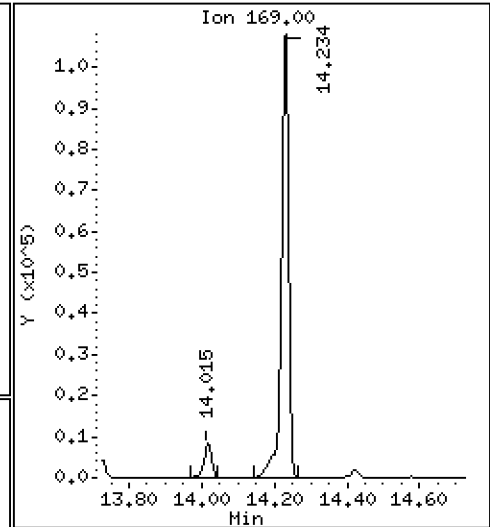
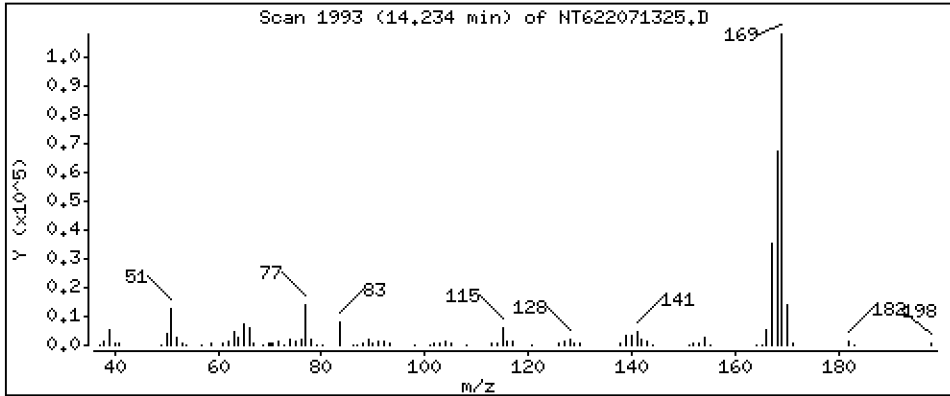
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

54 N-Nitrosodiphenylamine

Concentration: 23.37 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BK00169-BSD1,

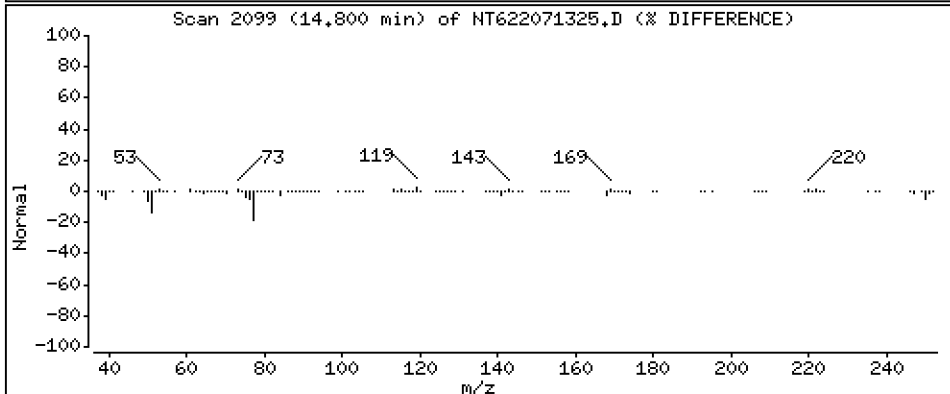
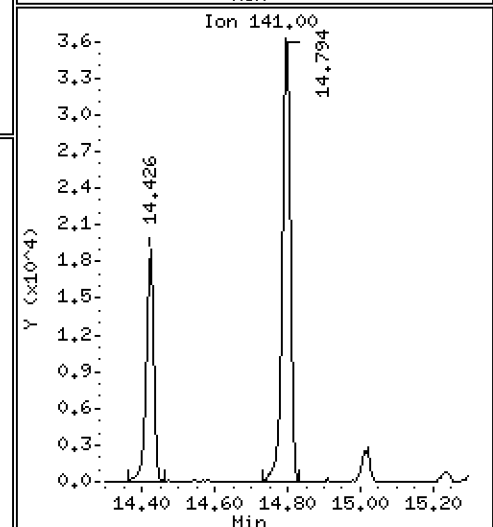
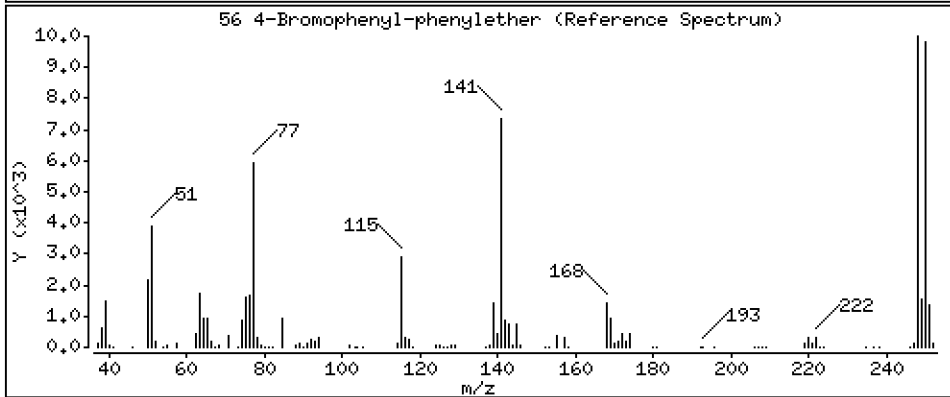
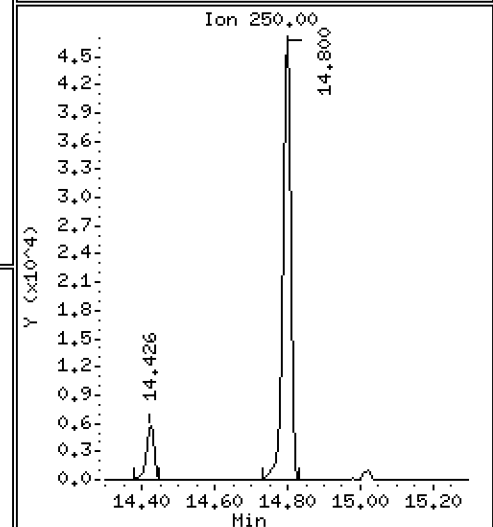
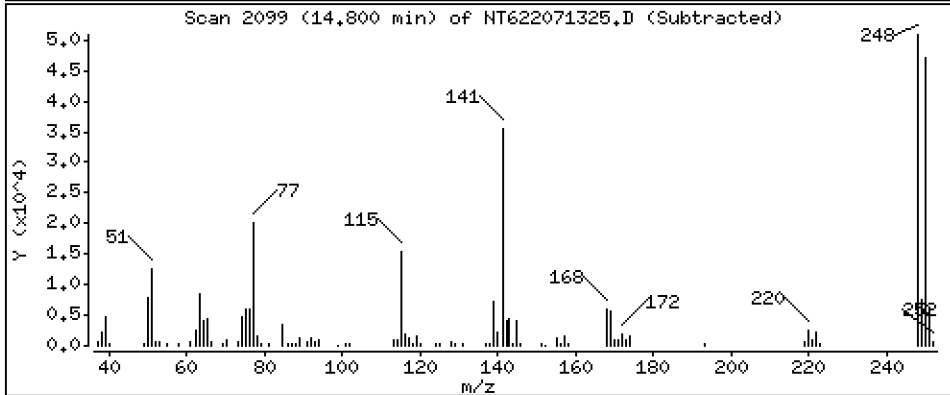
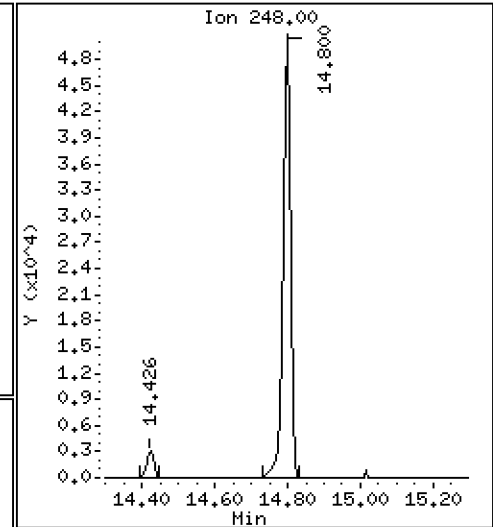
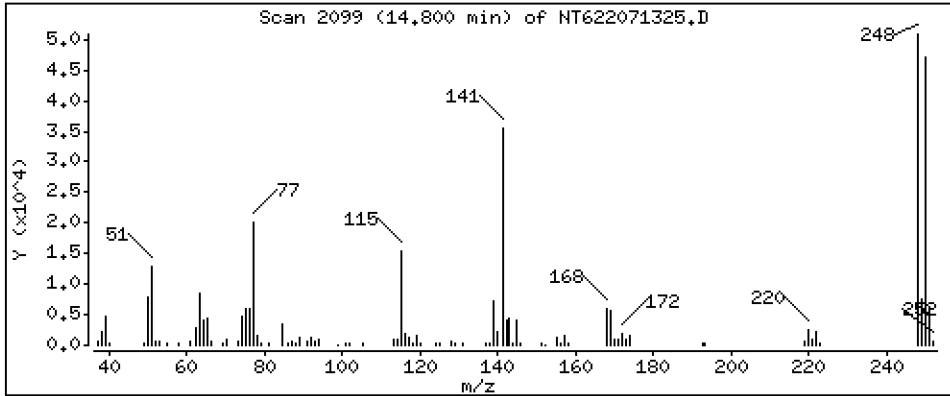
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

56 4-Bromophenyl-phenylether

Concentration: 25.96 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

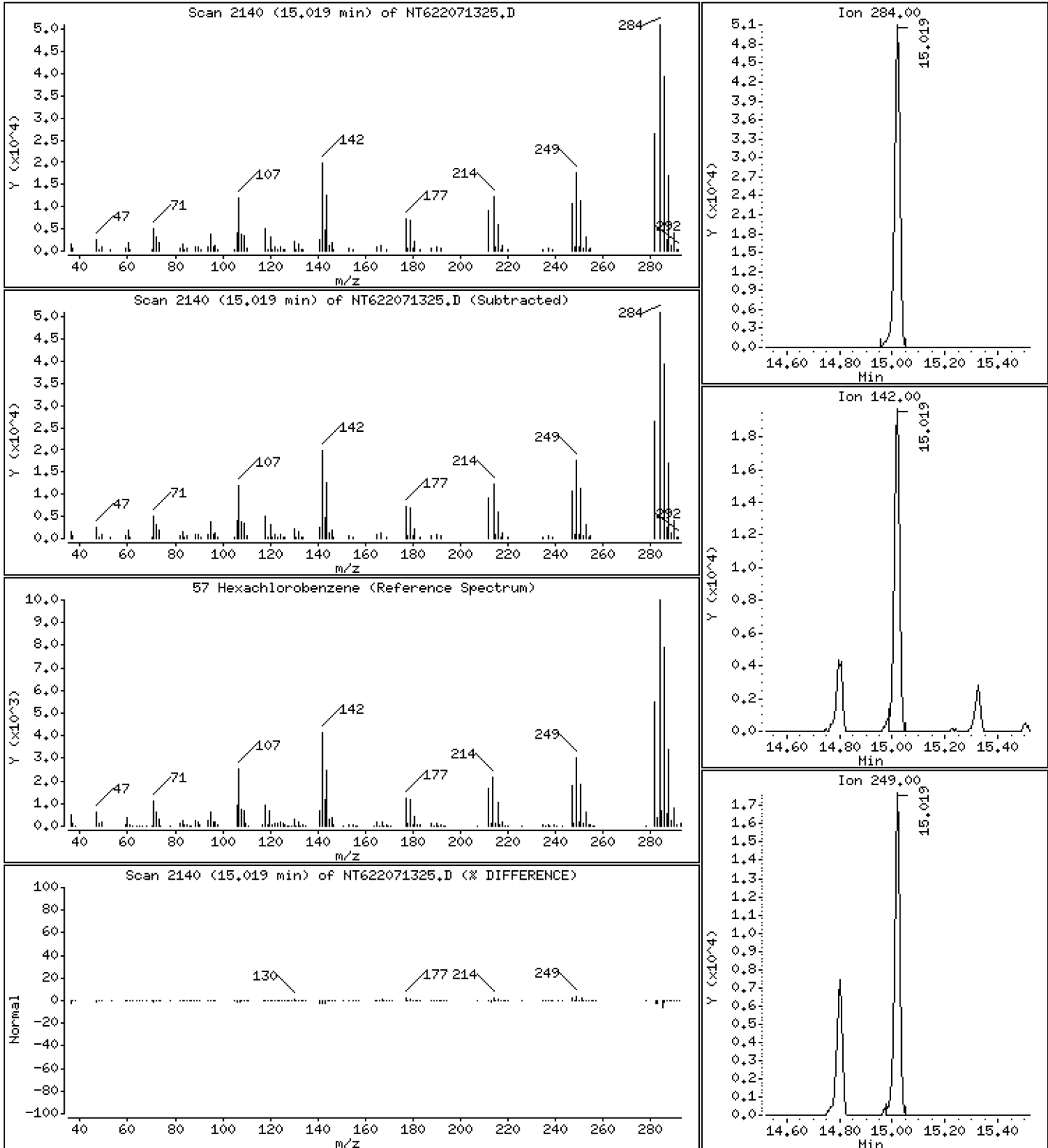
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

57 Hexachlorobenzene

Concentration: 24.22 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

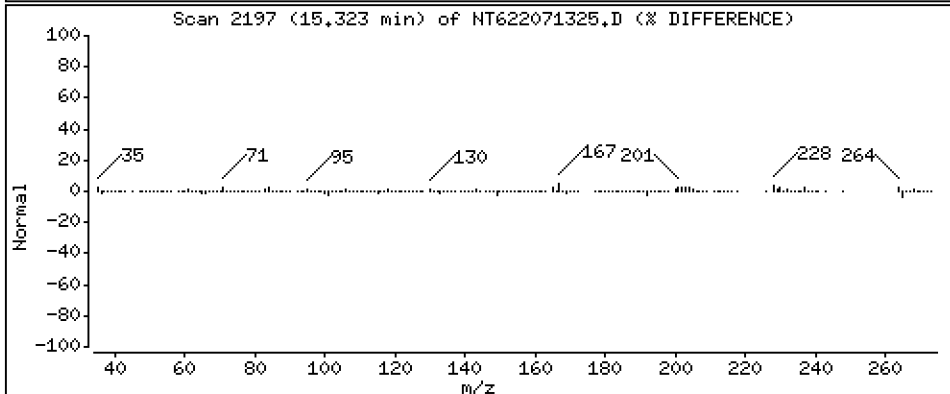
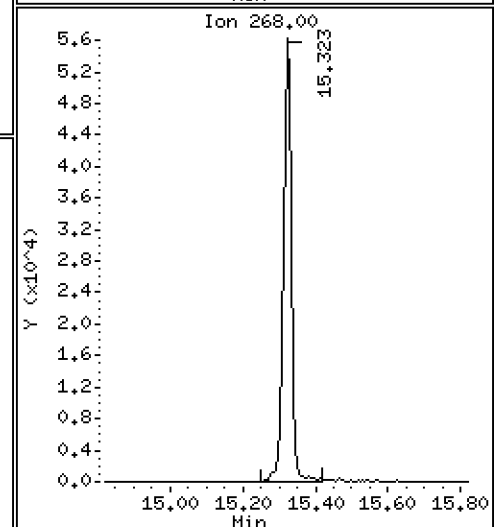
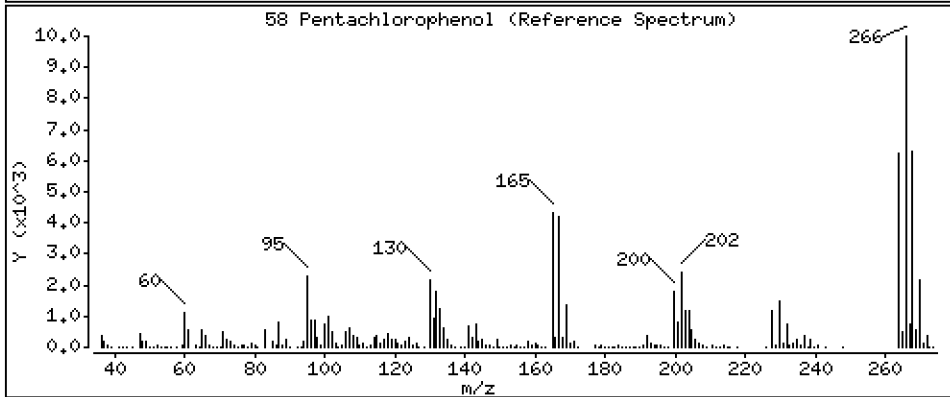
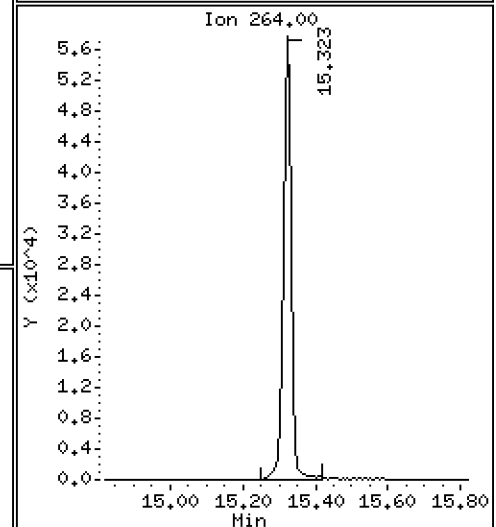
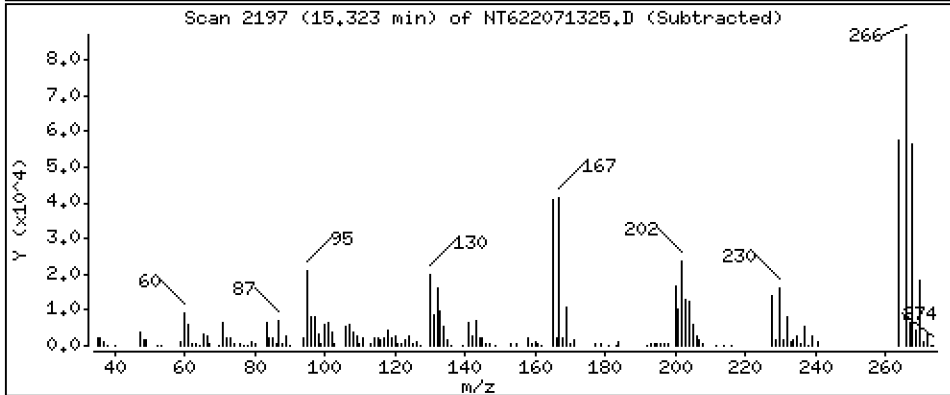
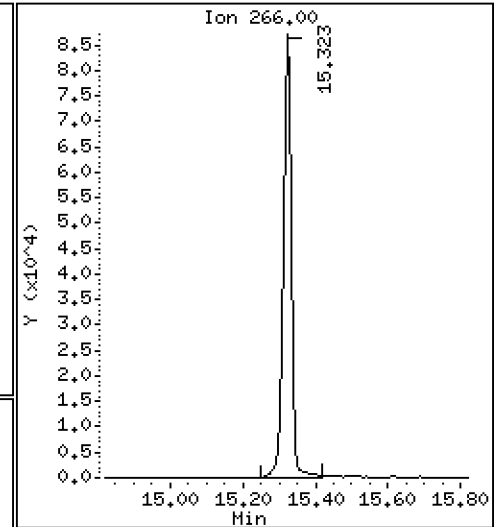
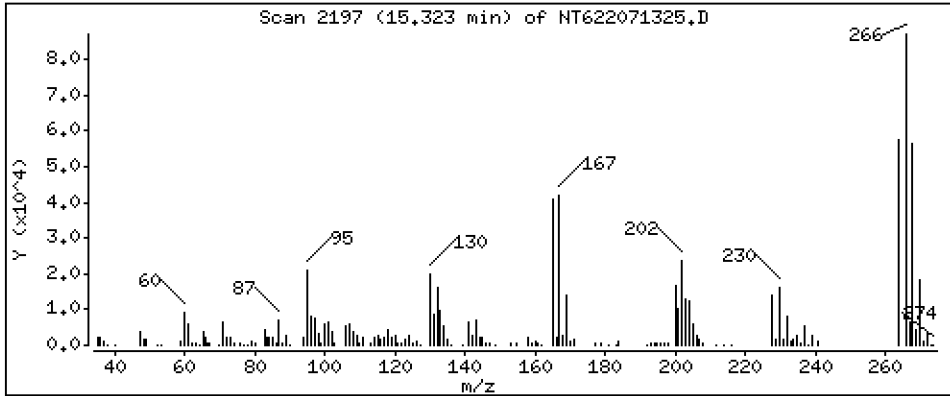
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

58 Pentachlorophenol

Concentration: 66.78 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

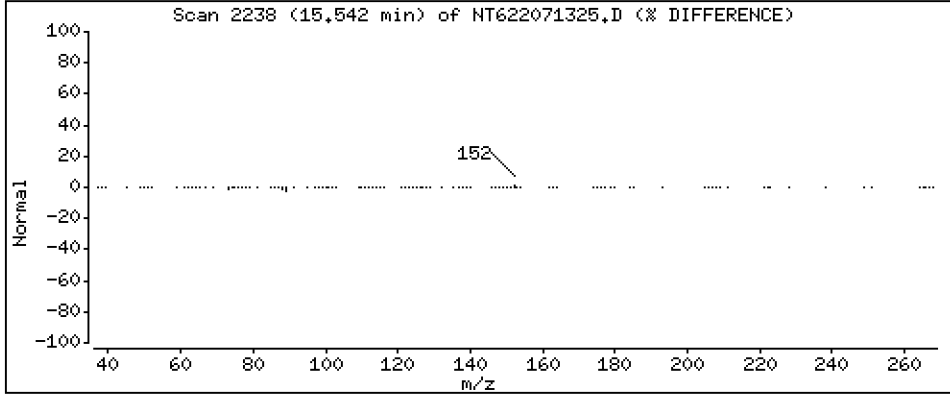
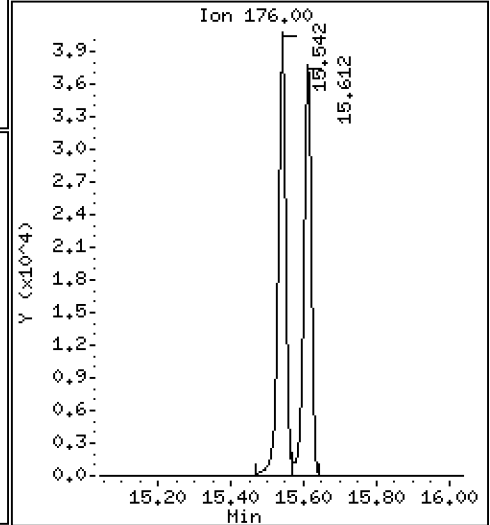
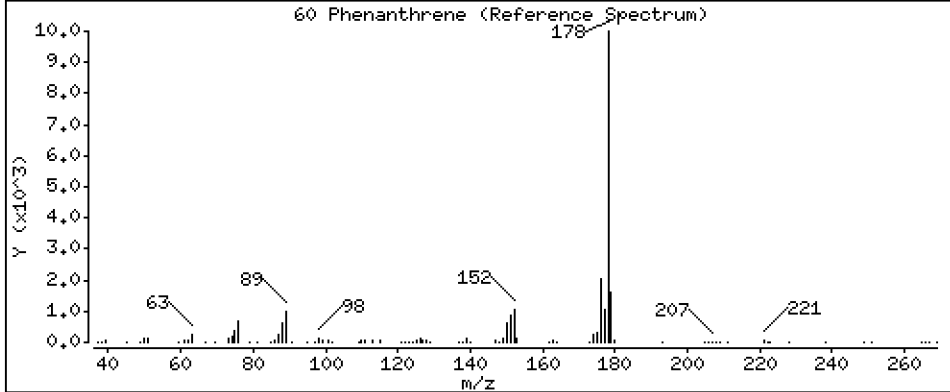
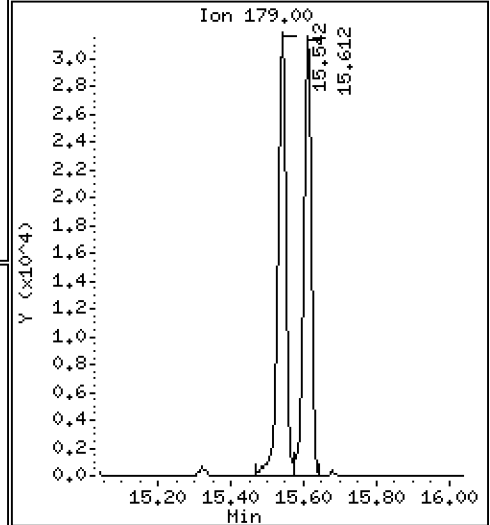
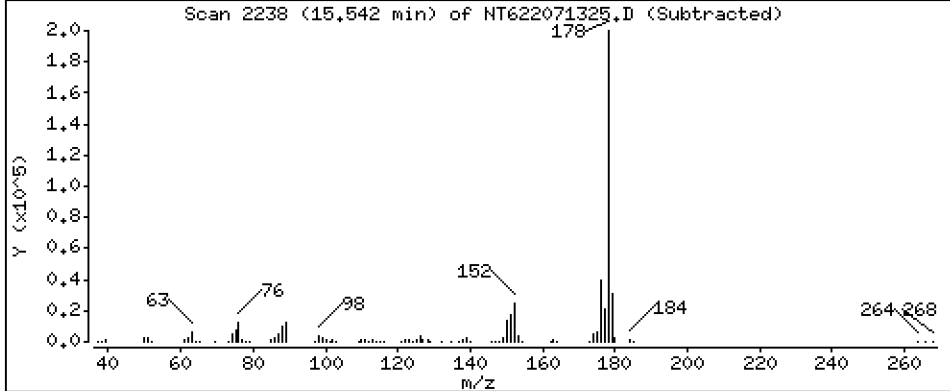
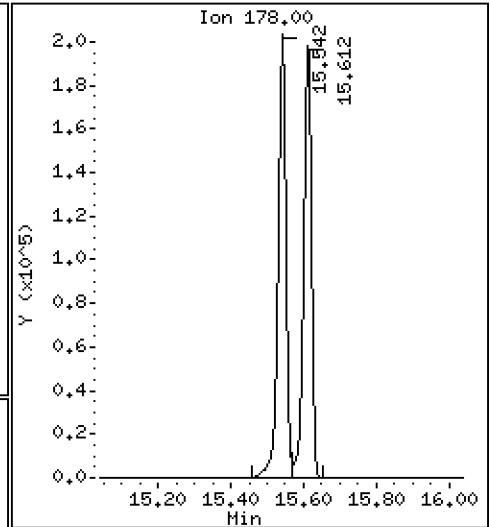
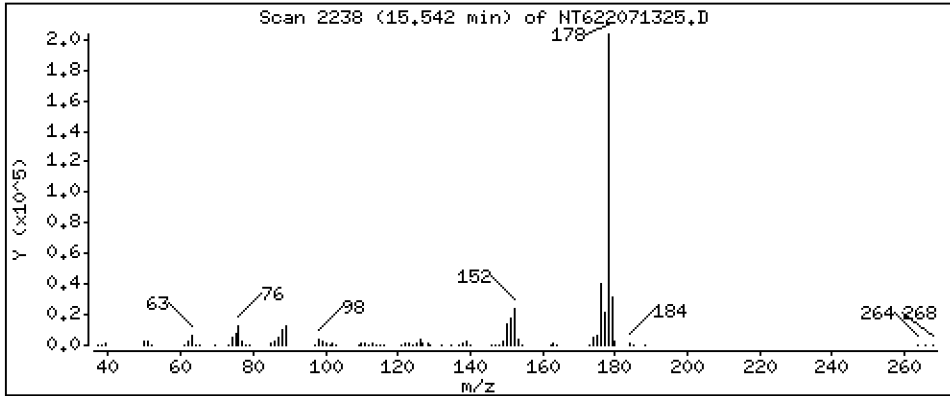
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

60 Phenanthrene

Concentration: 25.00 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

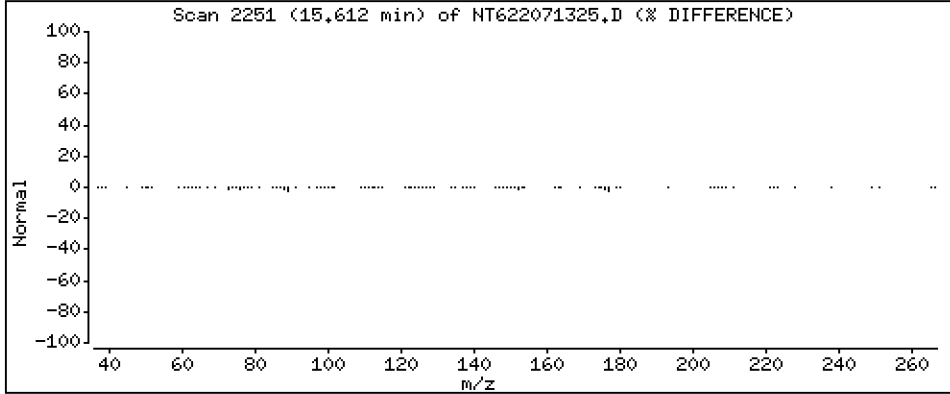
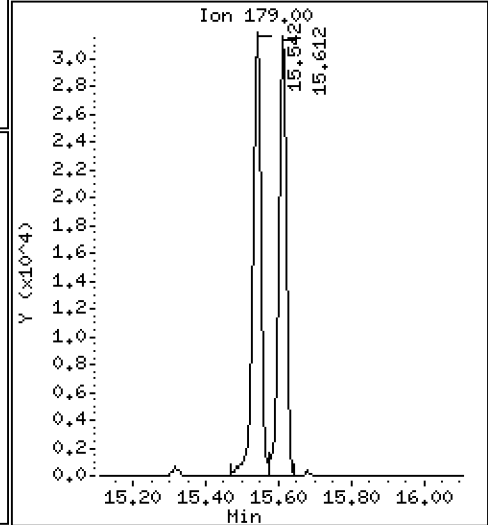
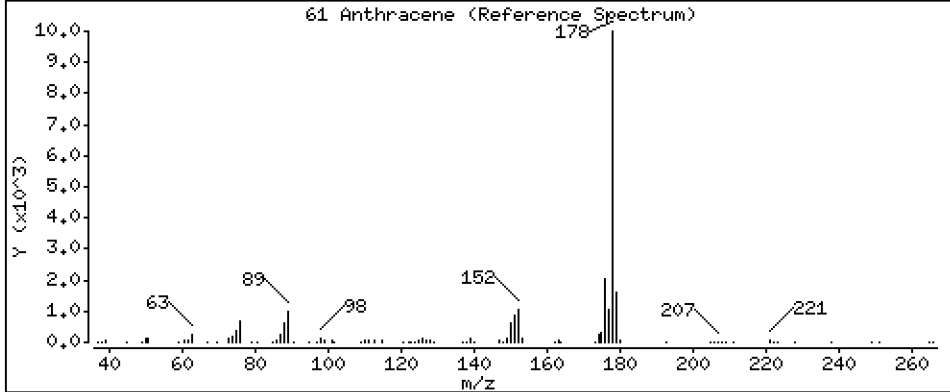
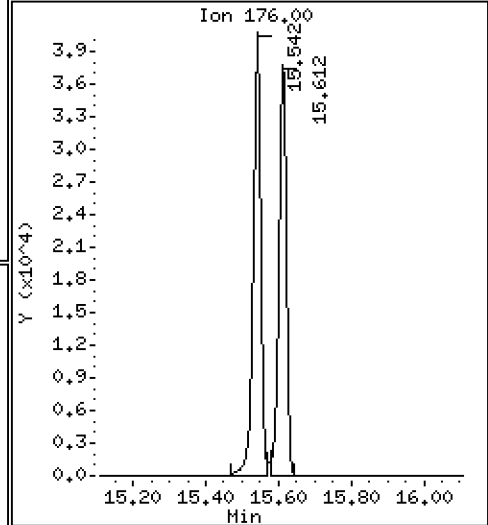
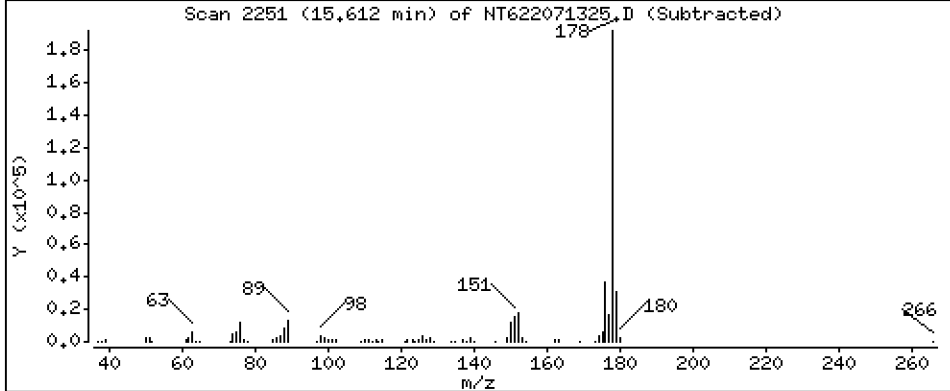
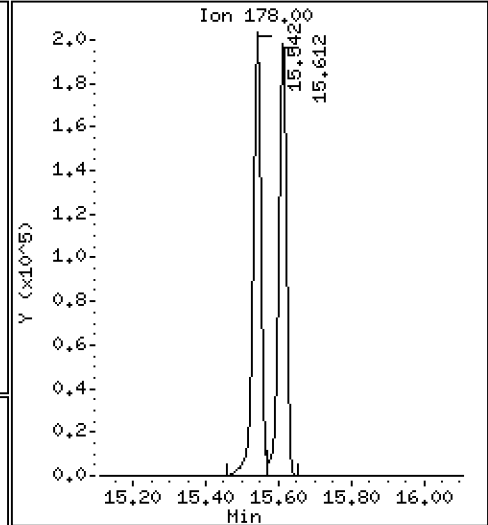
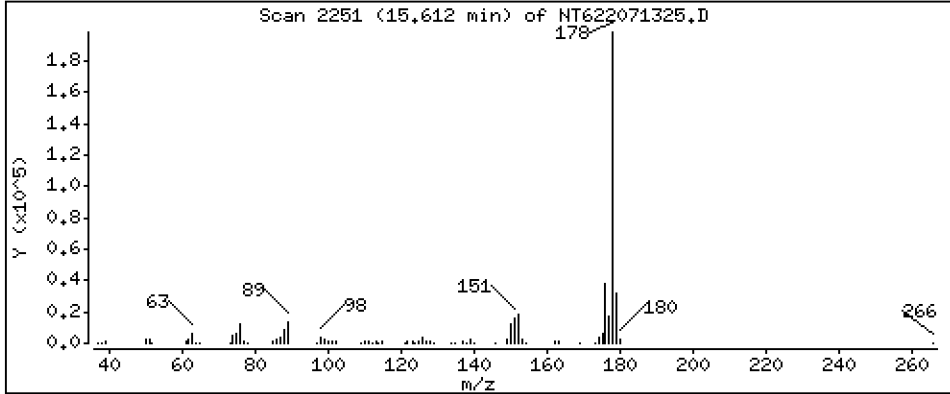
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

61 Anthracene

Concentration: 24.42 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

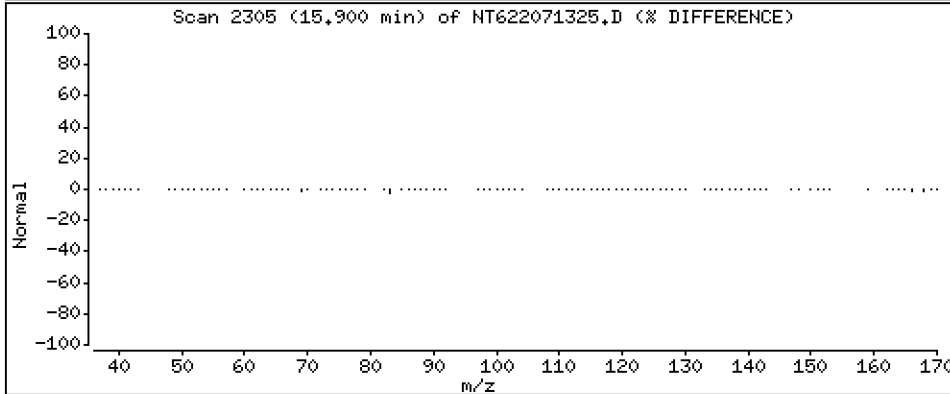
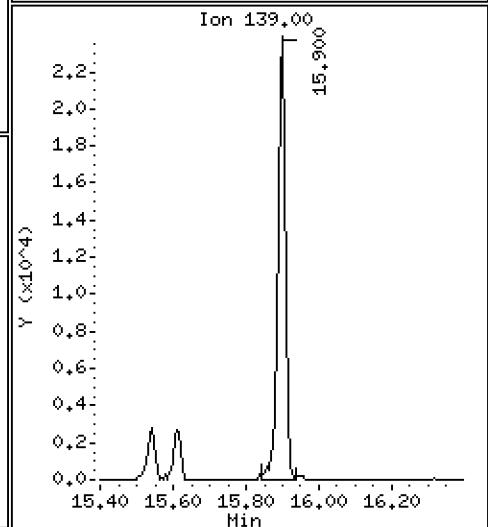
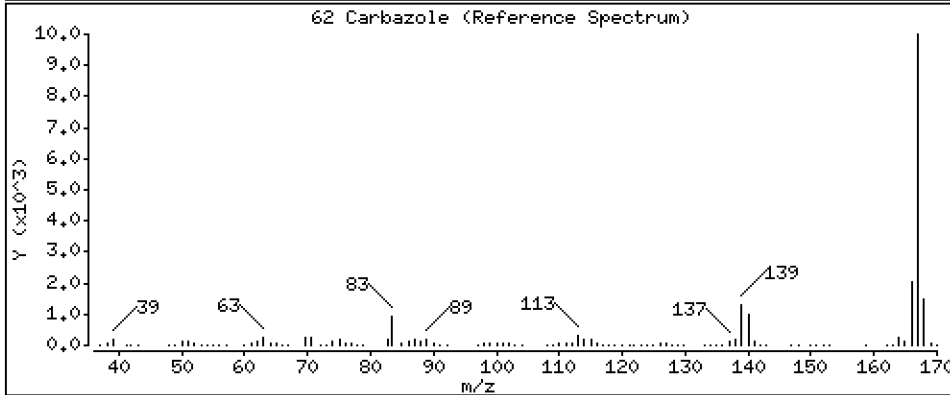
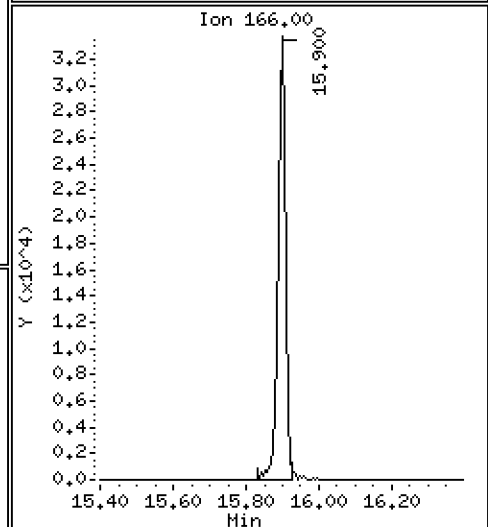
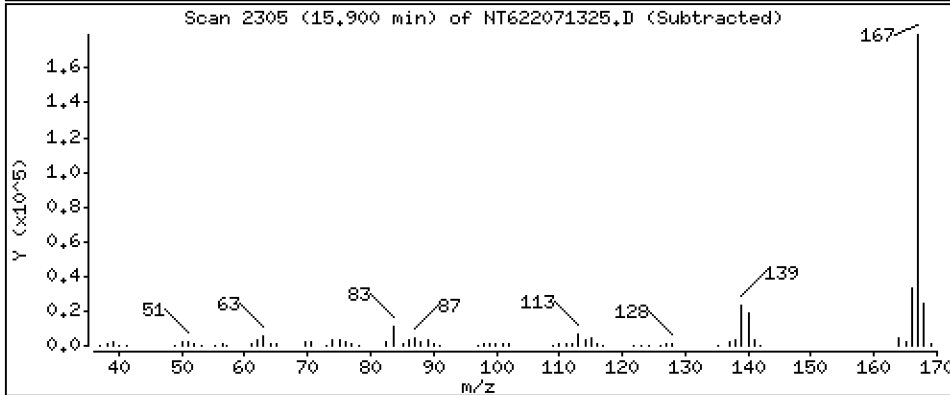
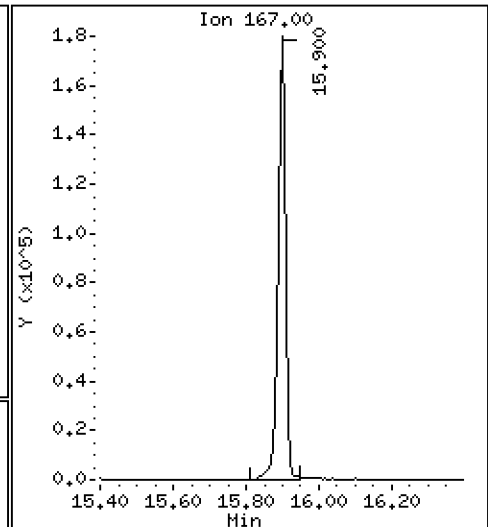
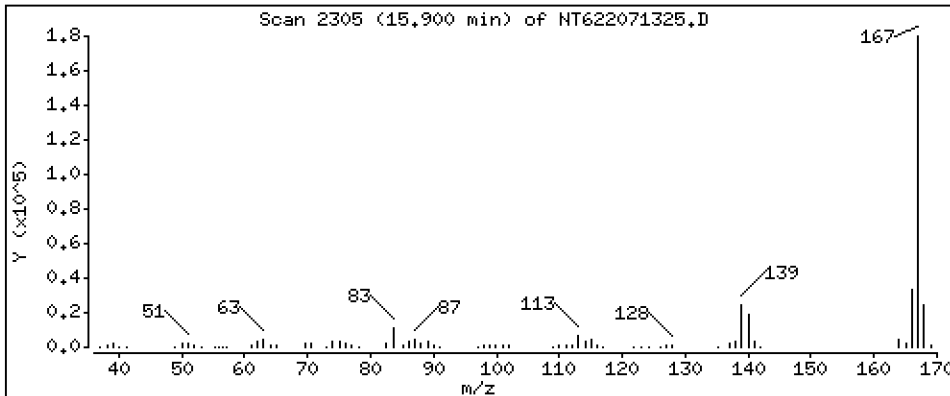
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

62 Carbazole

Concentration: 24.52 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

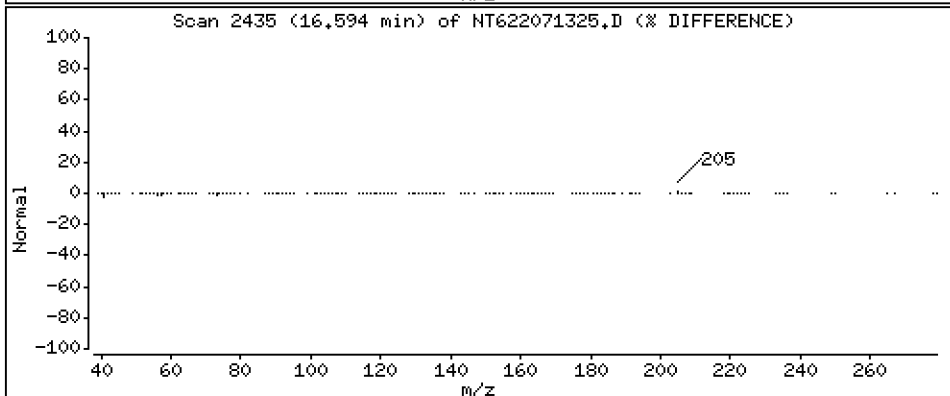
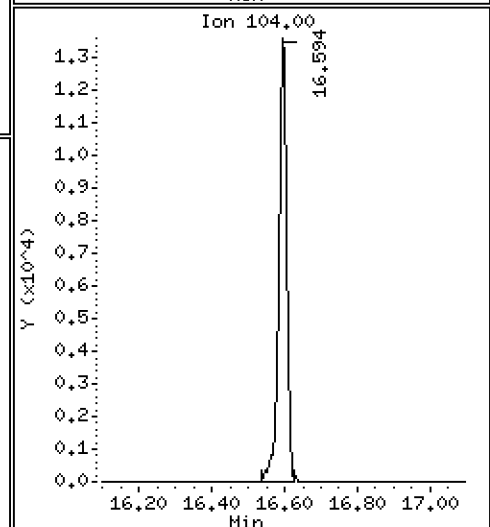
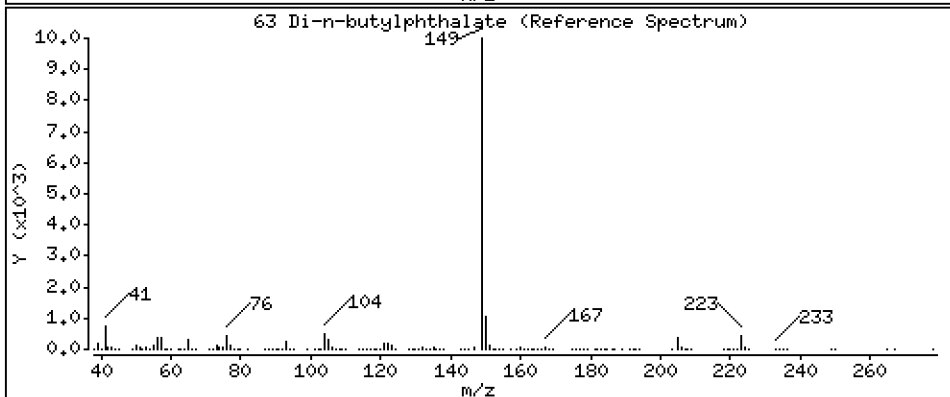
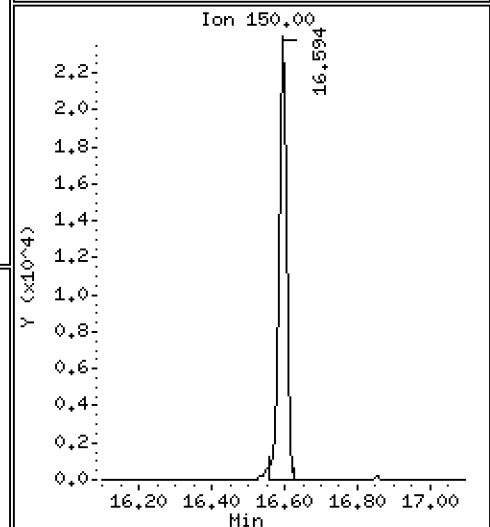
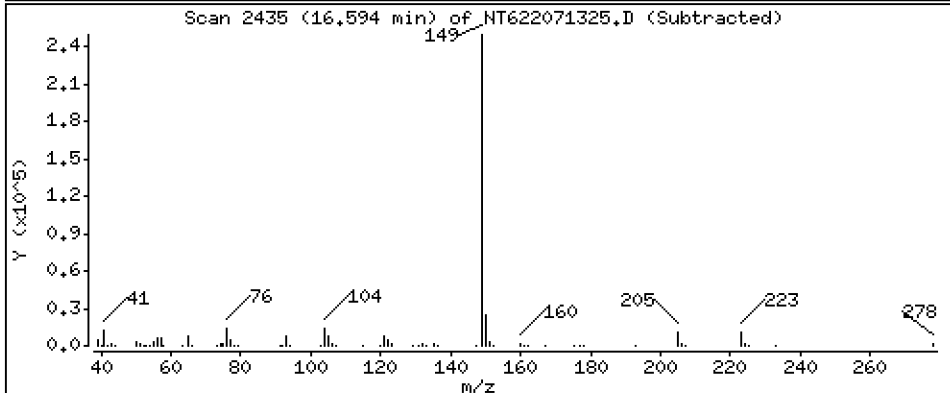
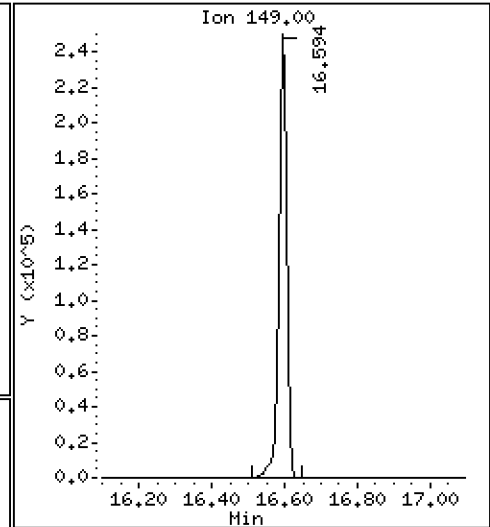
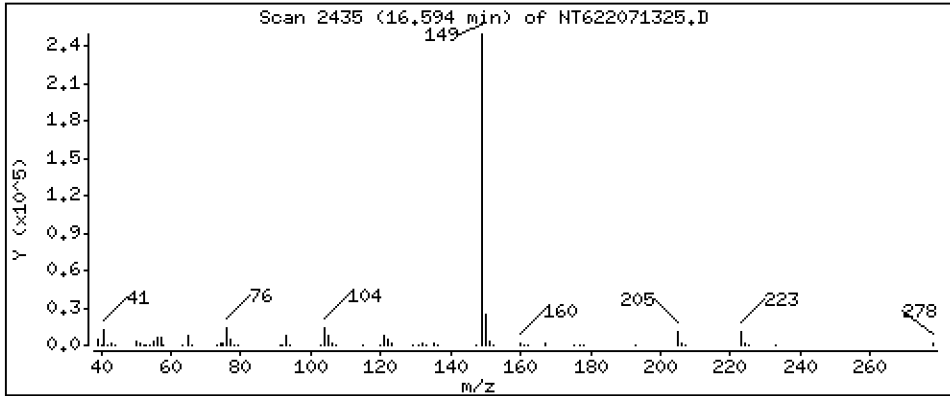
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

63 Di-n-butylphthalate

Concentration: 28.42 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

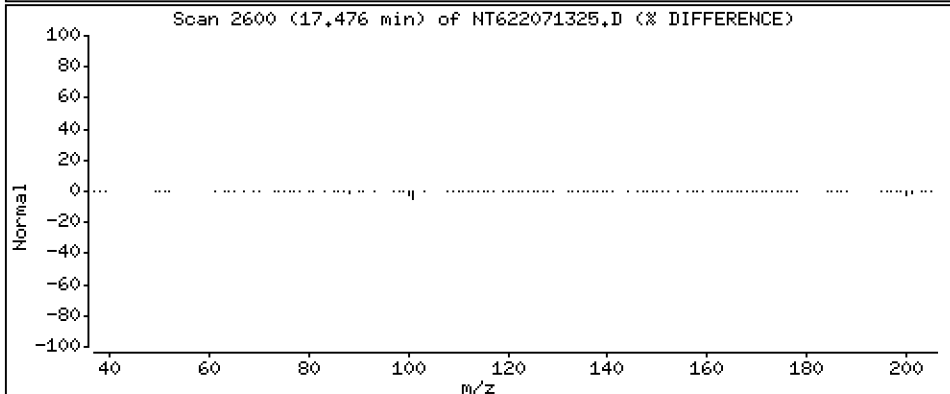
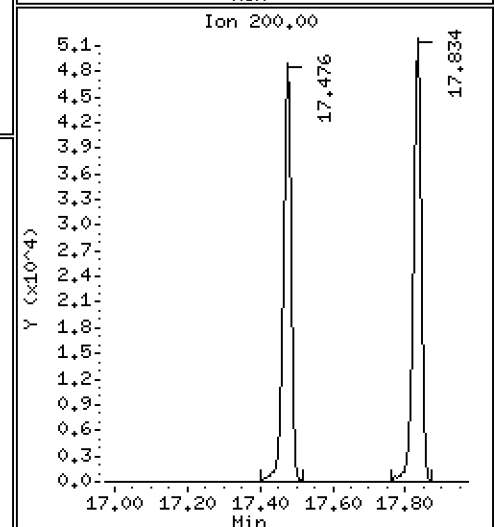
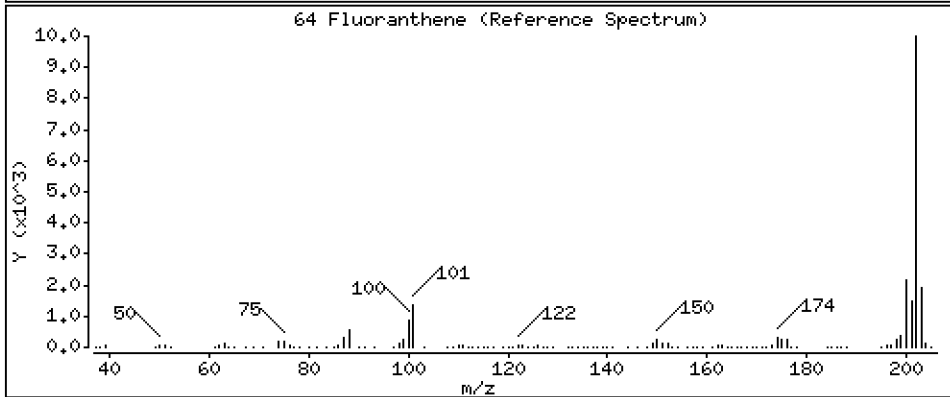
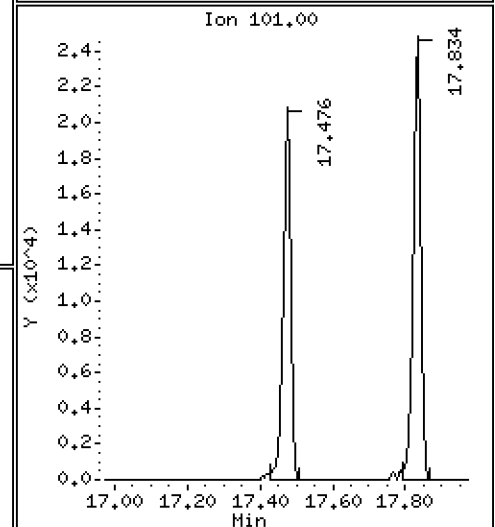
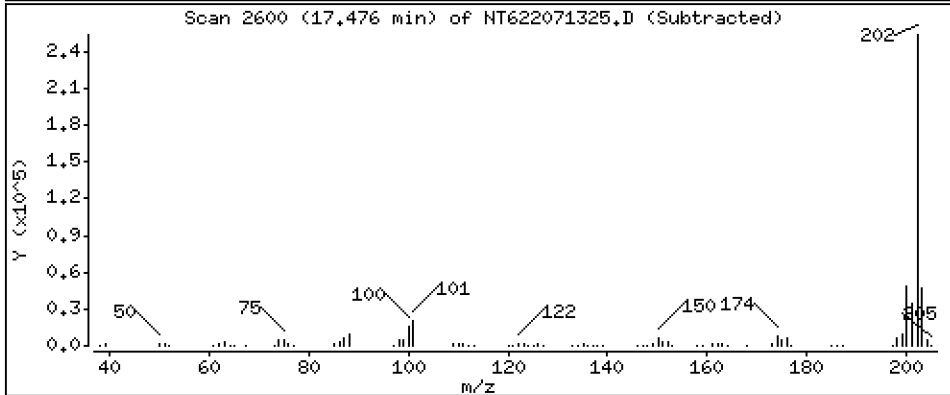
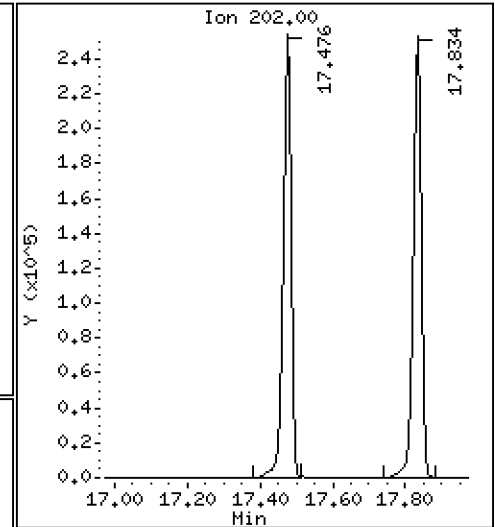
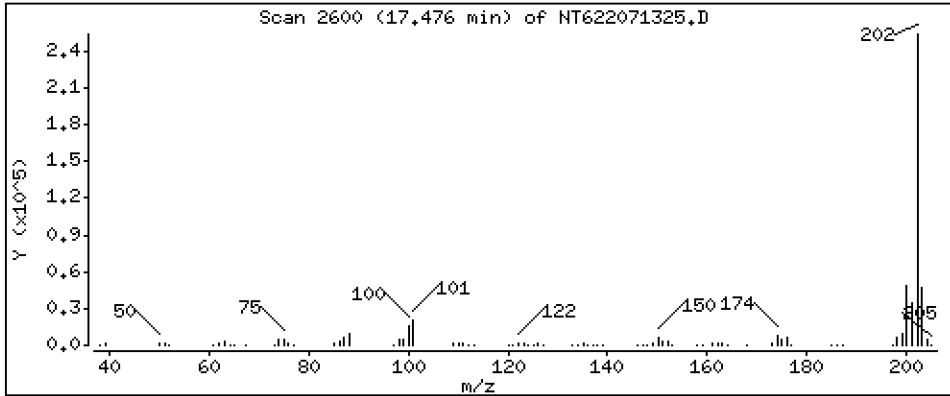
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

64 Fluoranthene

Concentration: 27.89 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

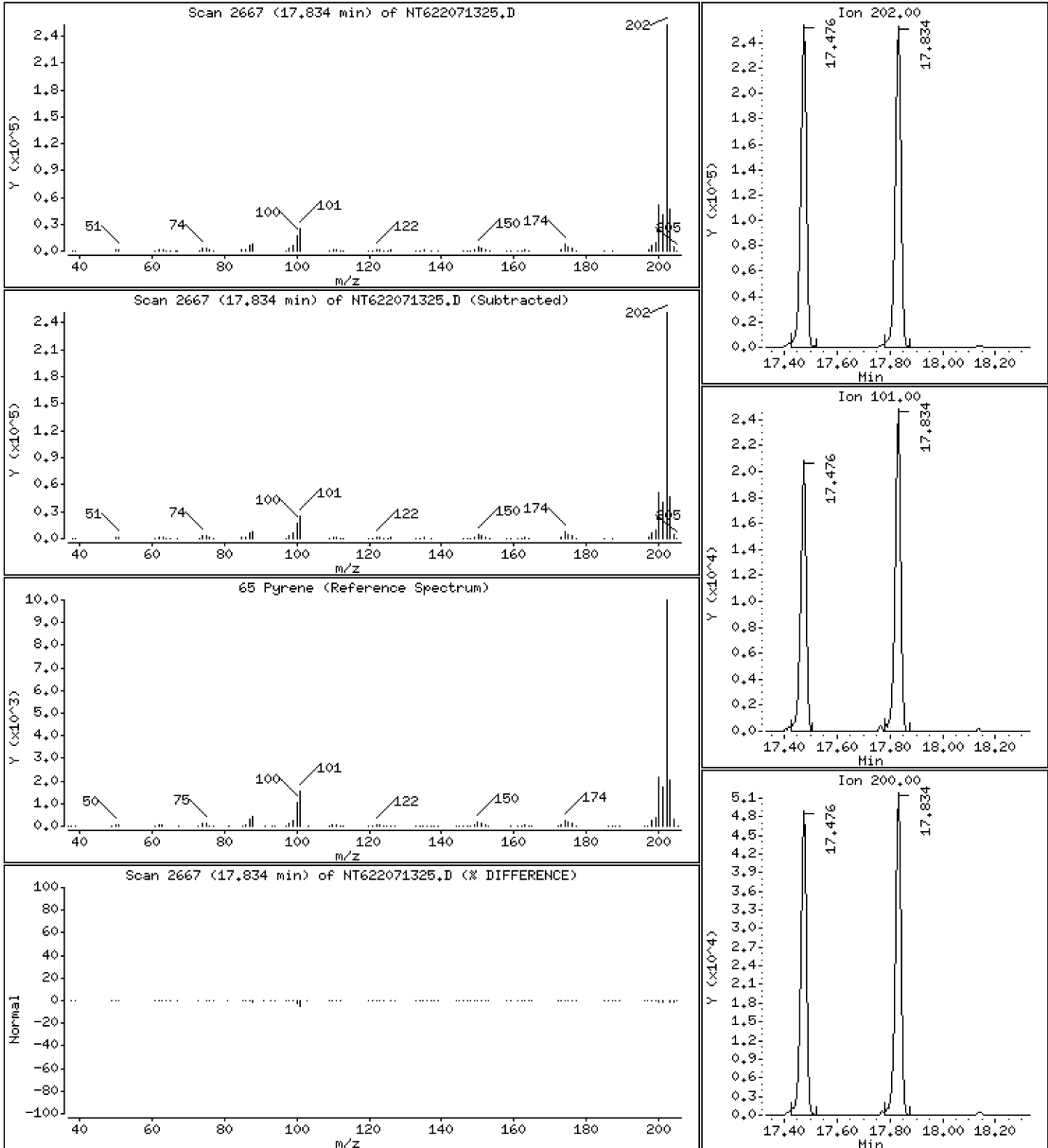
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

65 Pyrene

Concentration: 23.87 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

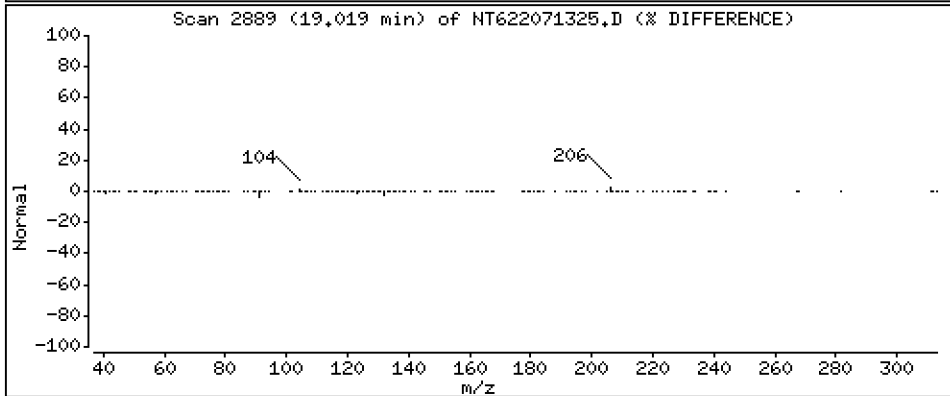
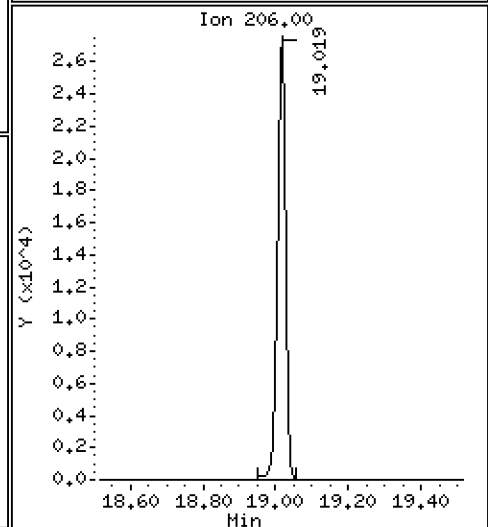
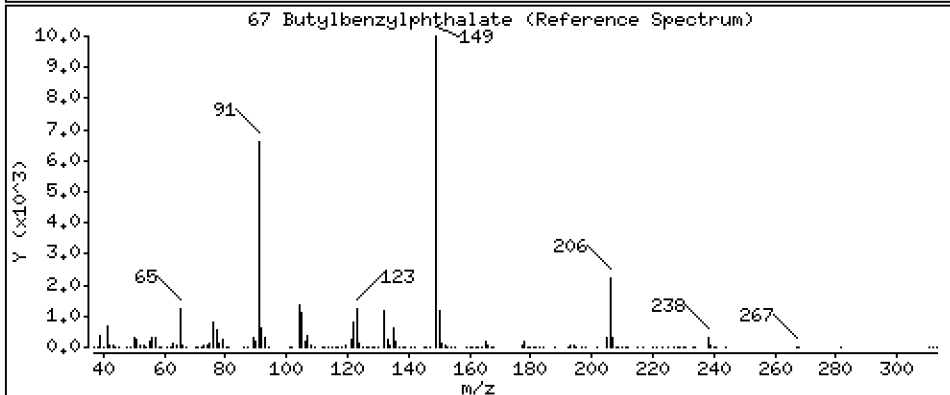
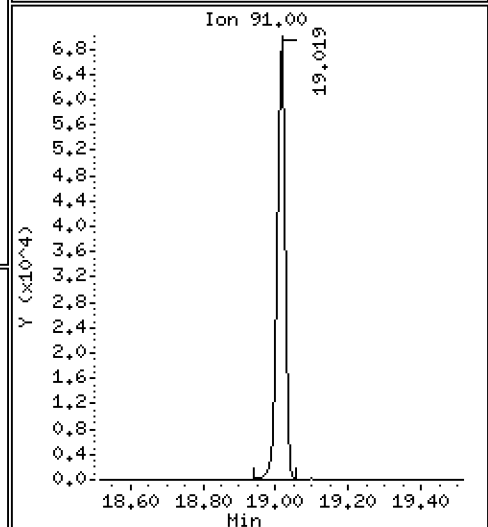
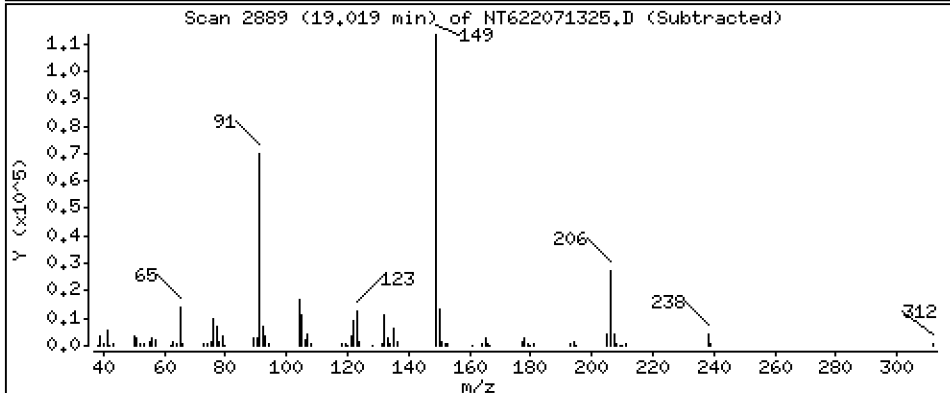
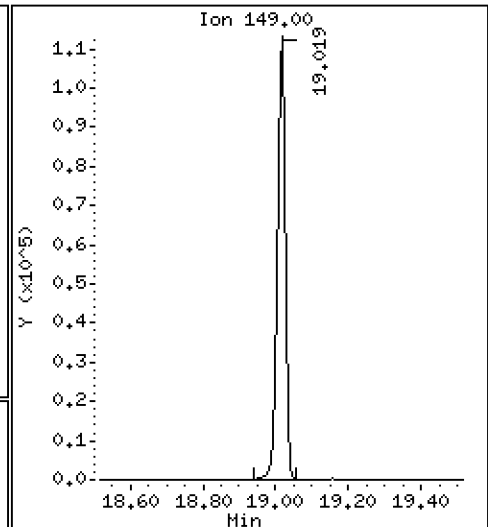
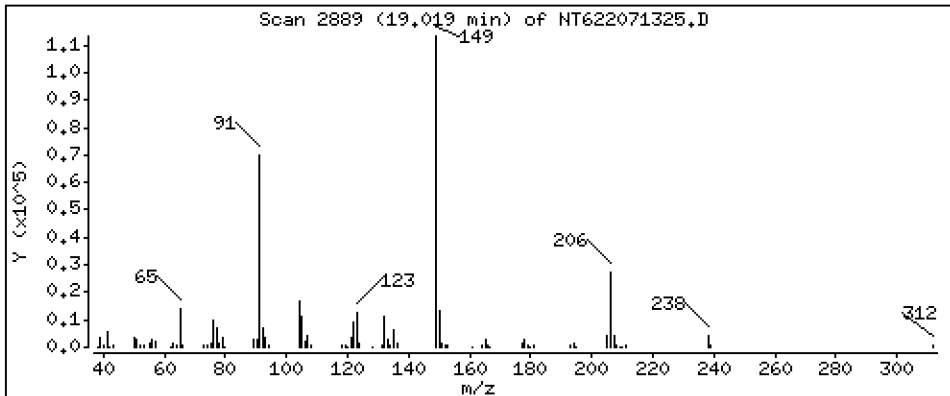
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

67 Butylbenzylphthalate

Concentration: 27,05 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

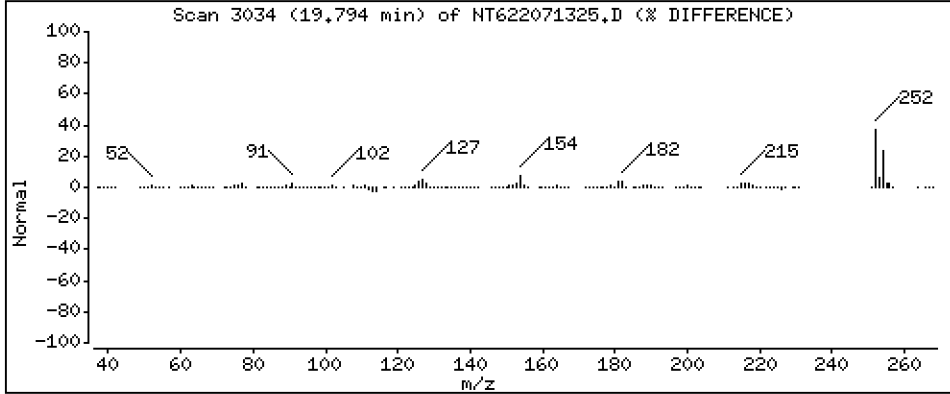
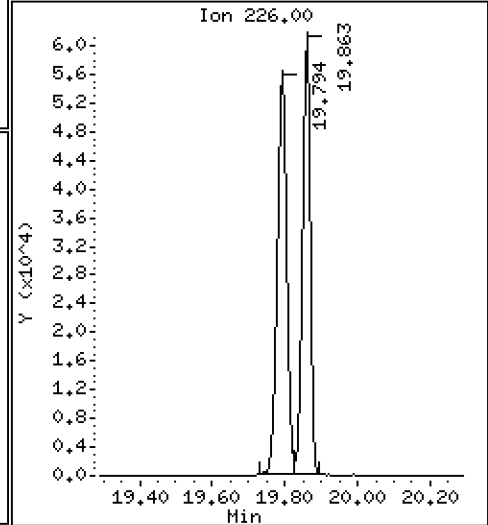
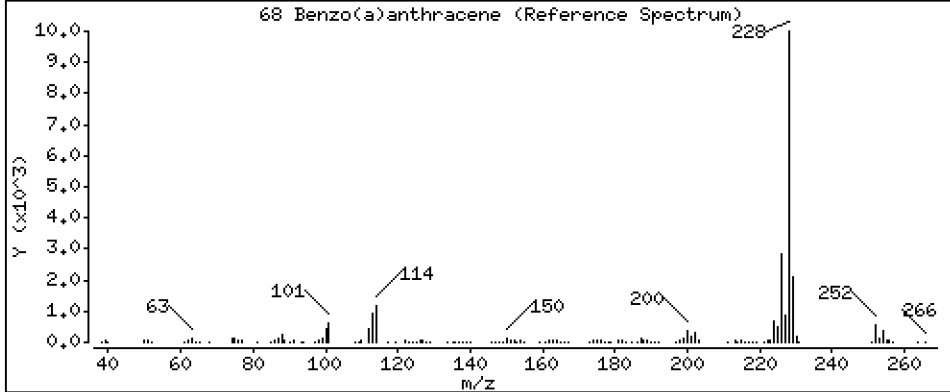
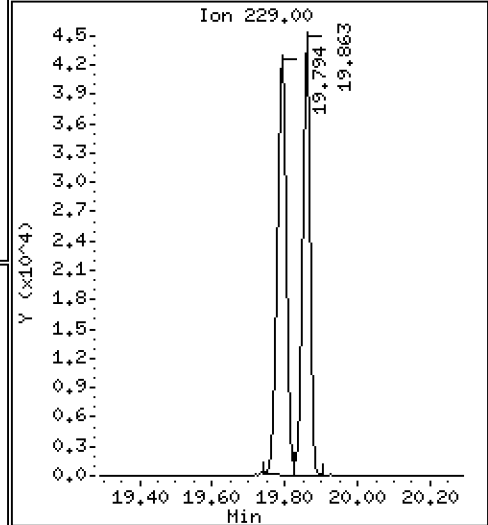
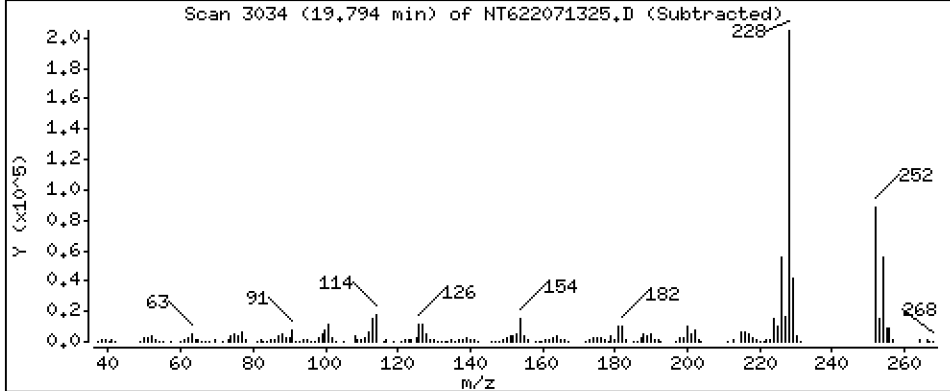
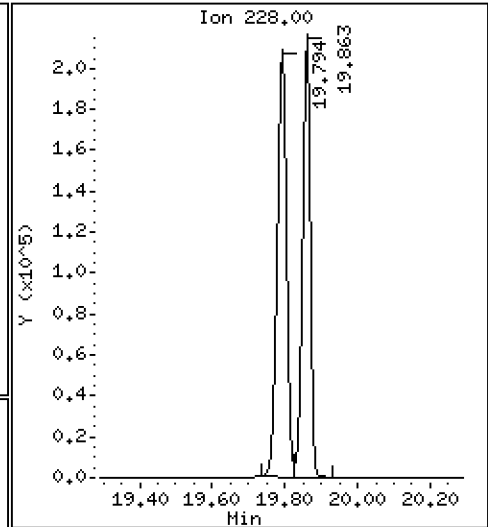
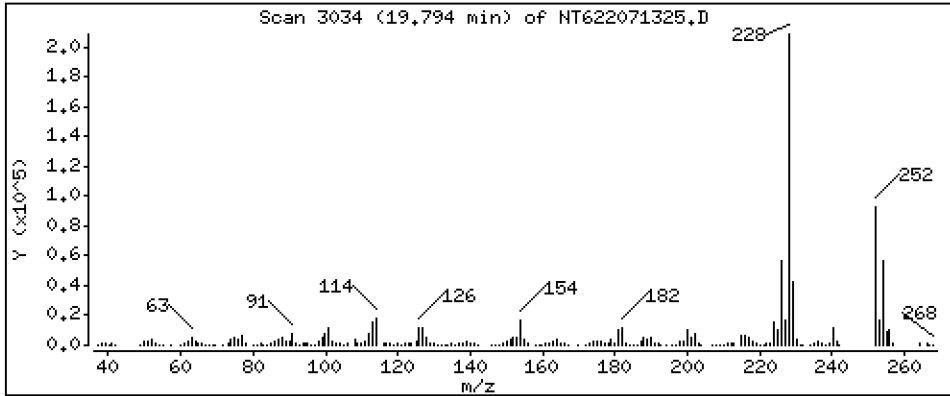
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

68 Benzo(a)anthracene

Concentration: 26,15 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

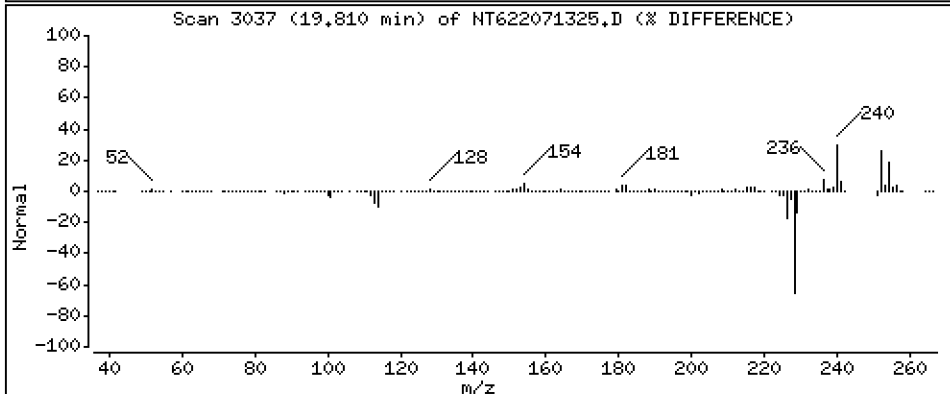
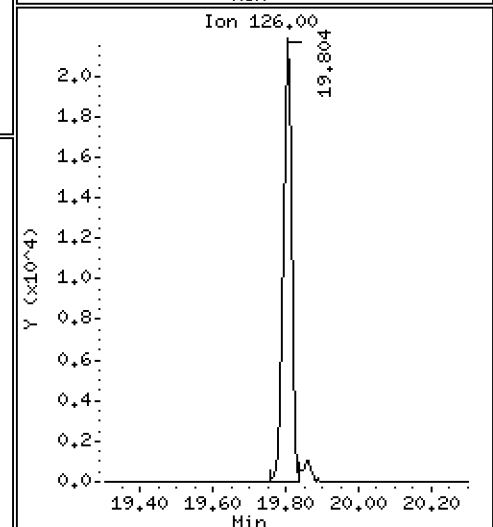
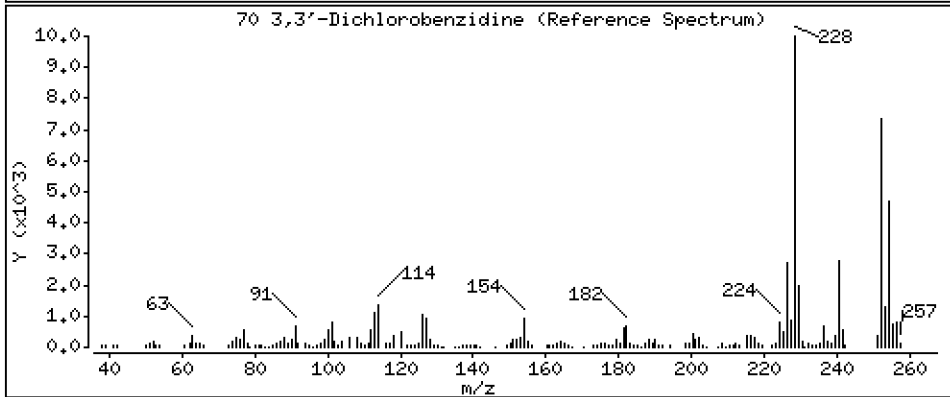
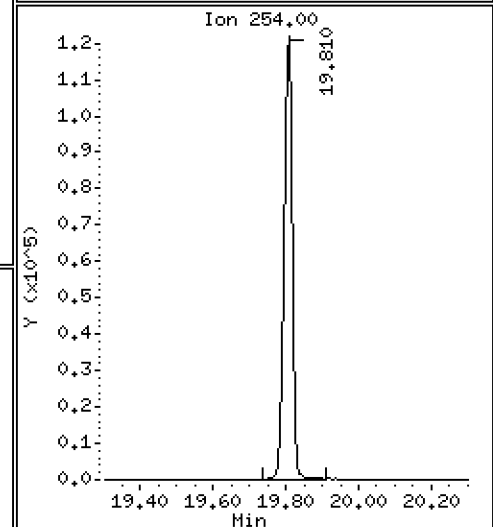
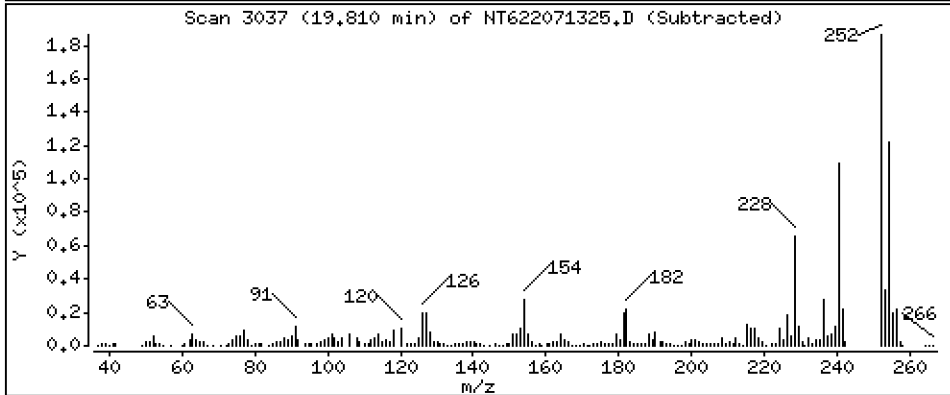
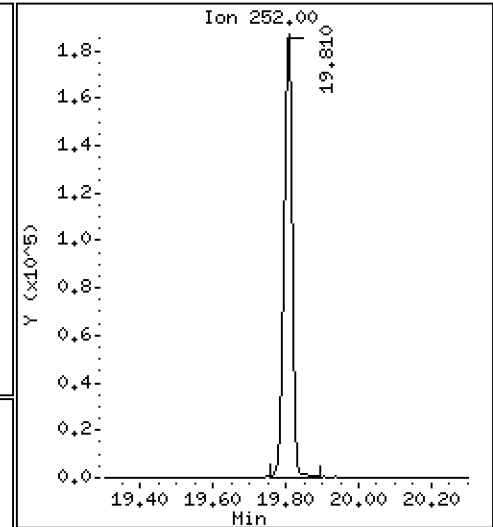
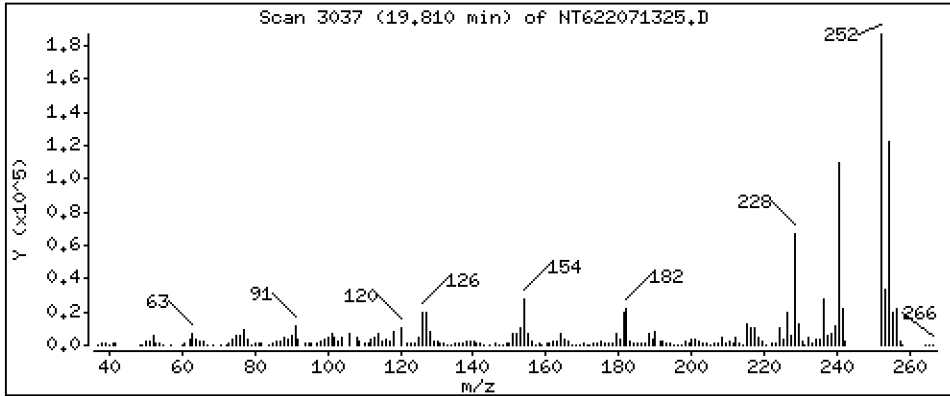
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

70 3,3'-Dichlorobenzidine

Concentration: 69,37 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

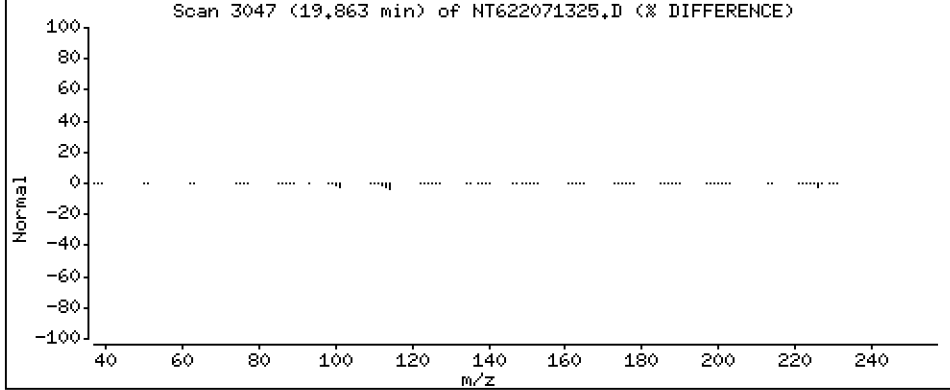
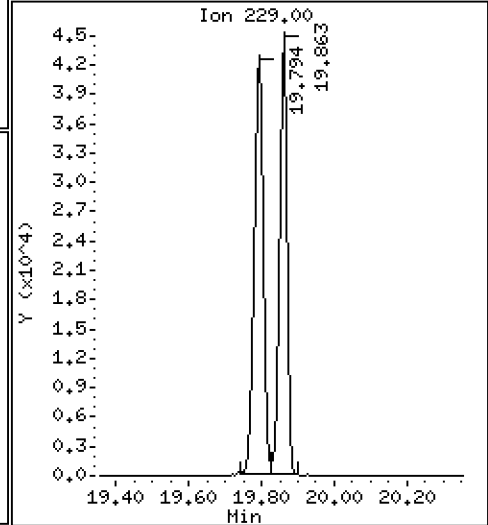
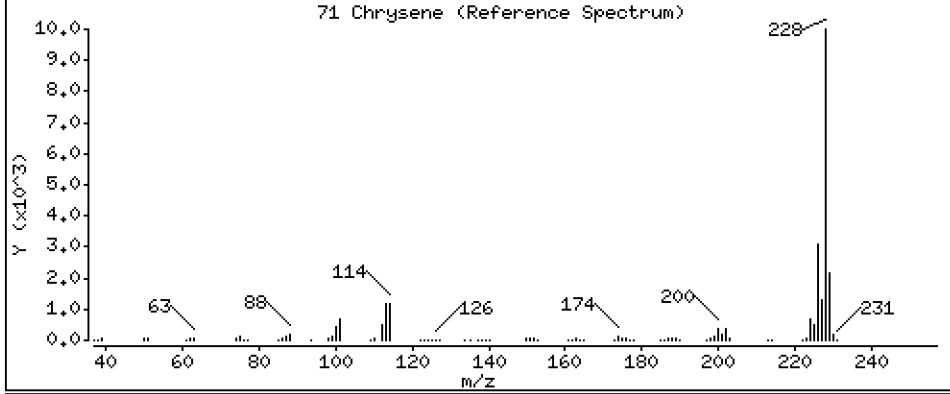
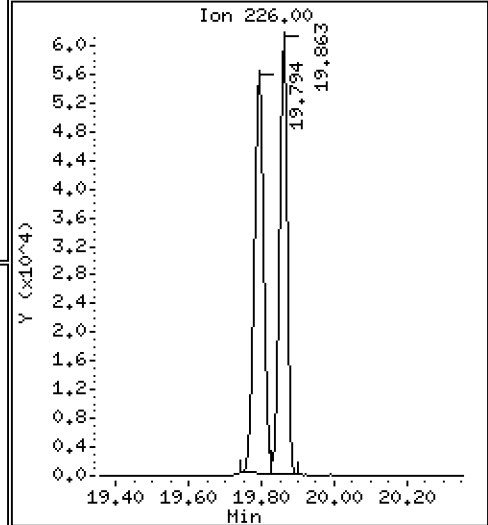
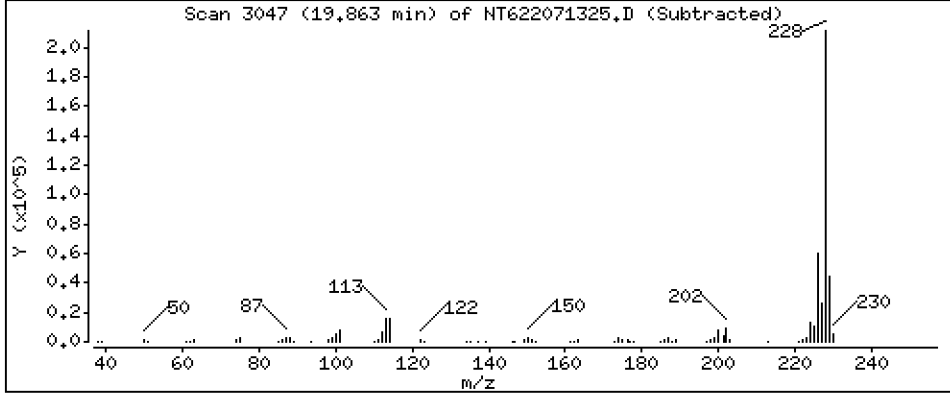
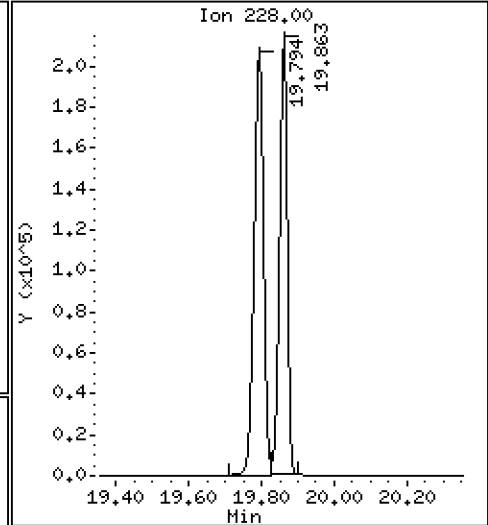
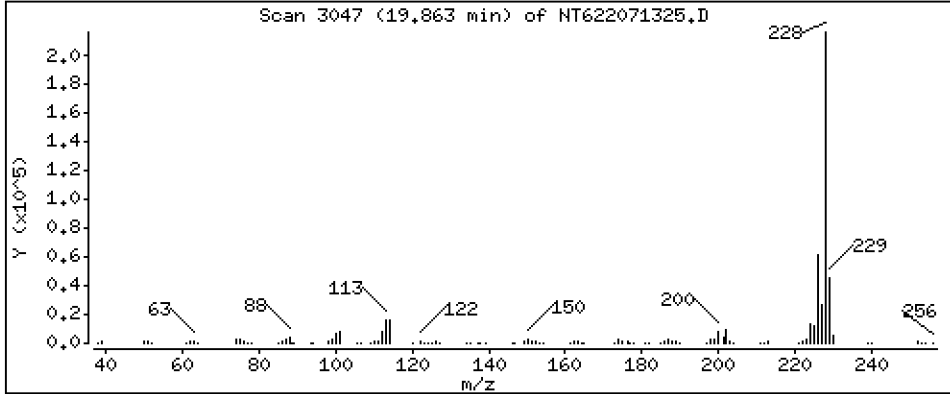
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

71 Chrysene

Concentration: 24,11 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

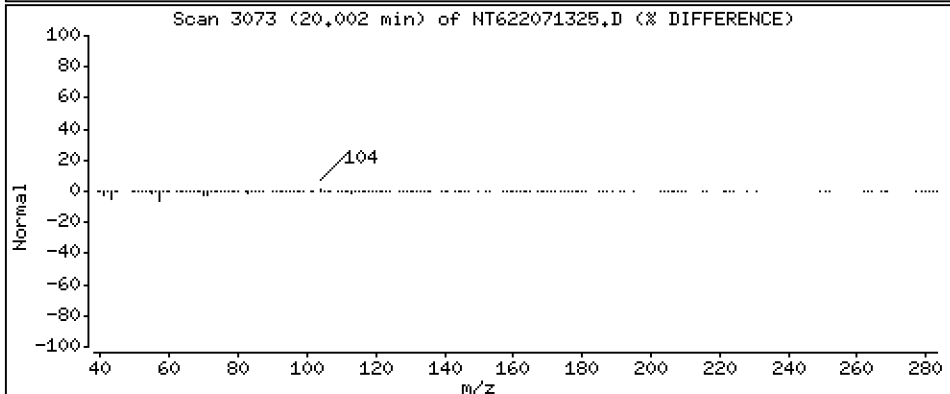
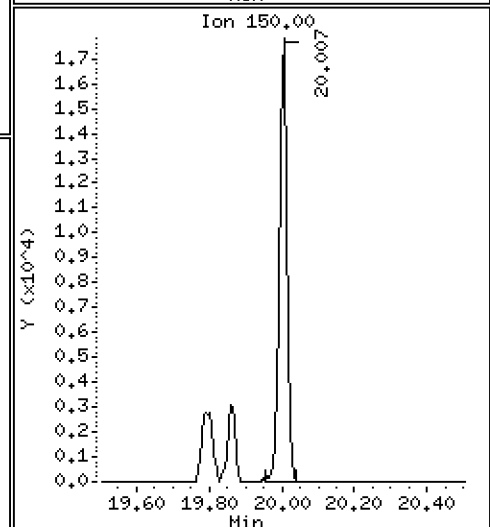
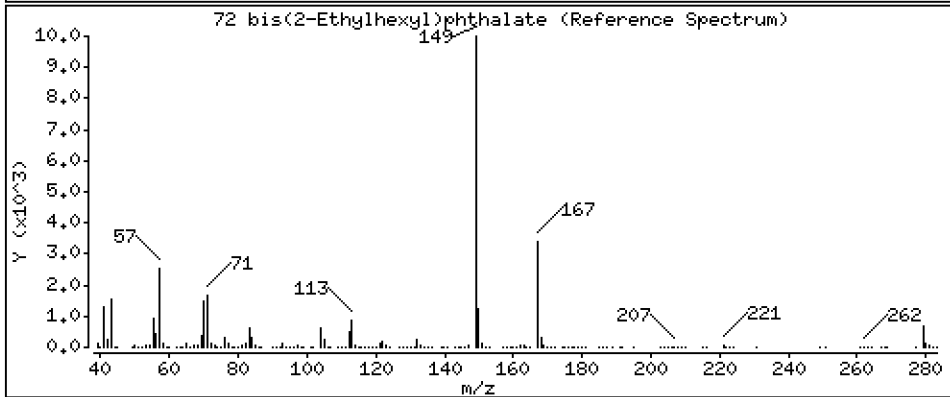
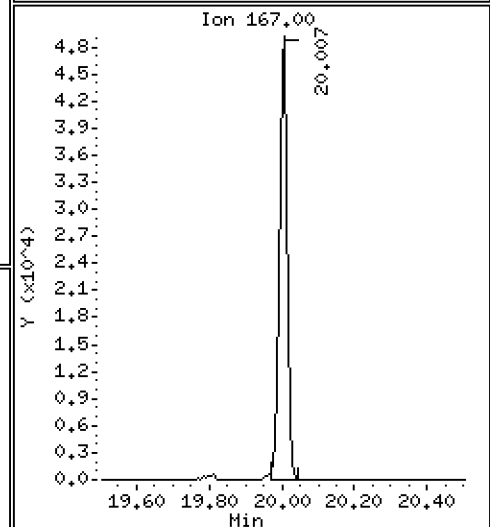
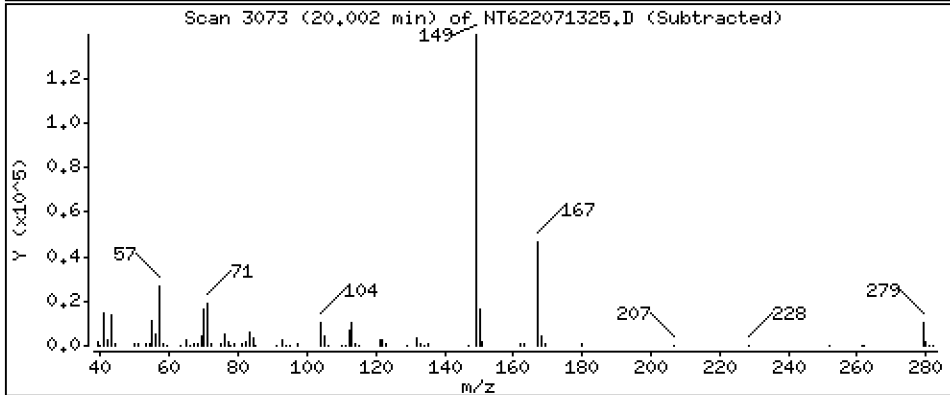
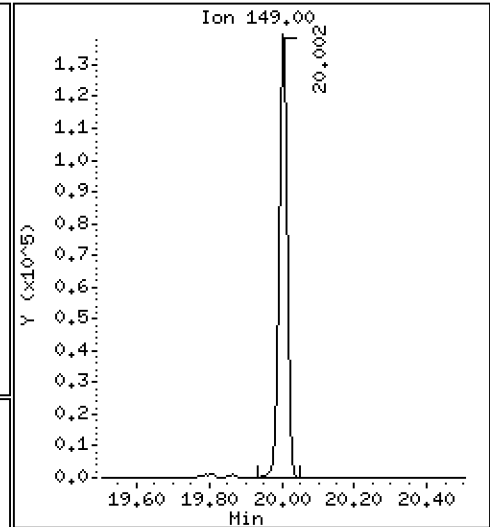
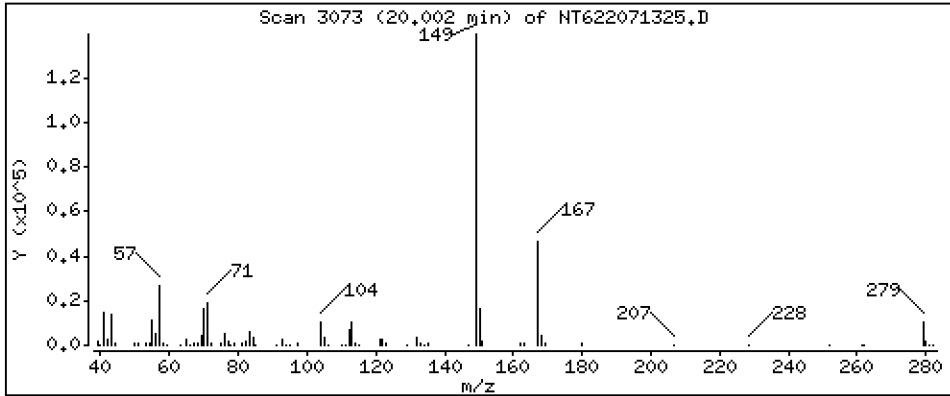
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

72 bis(2-Ethylhexyl)phthalate

Concentration: 27.58 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

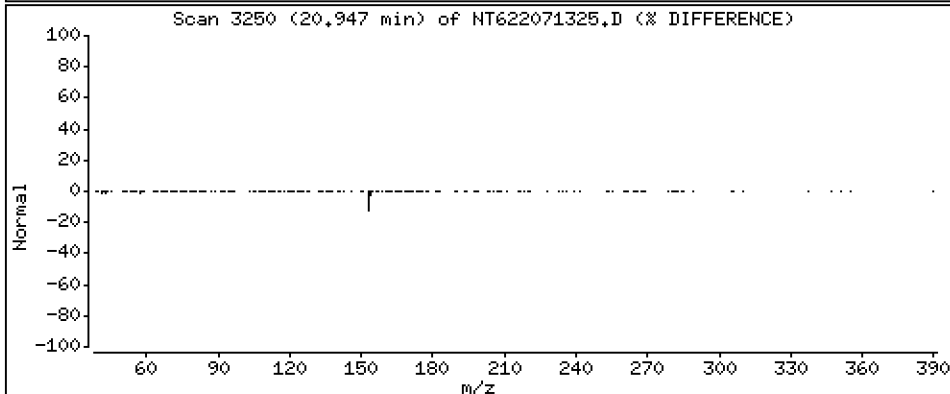
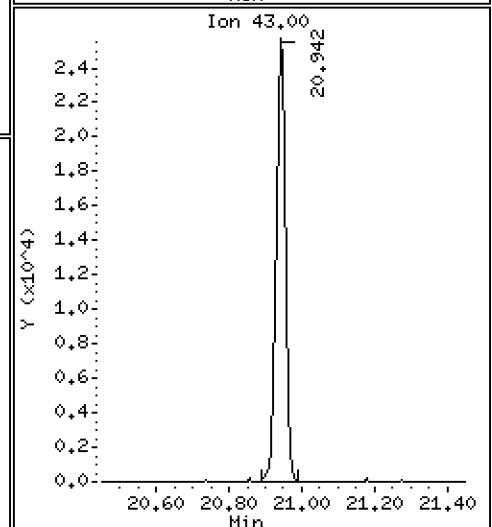
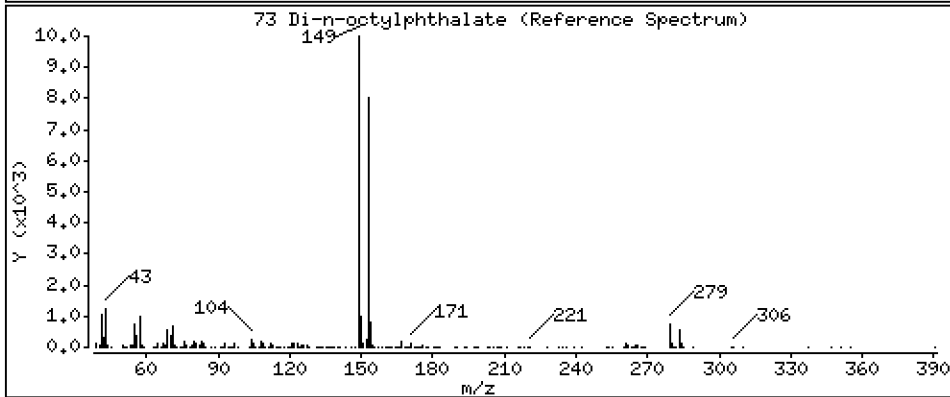
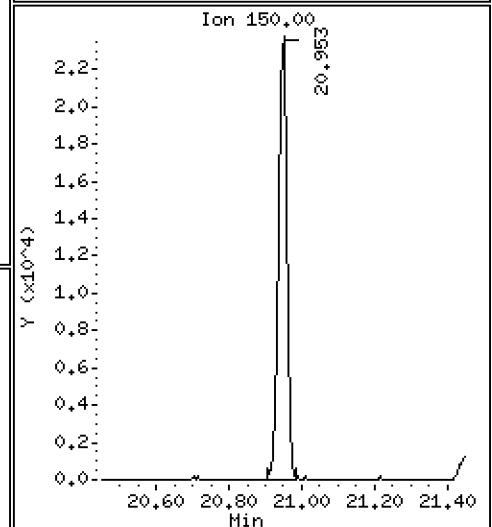
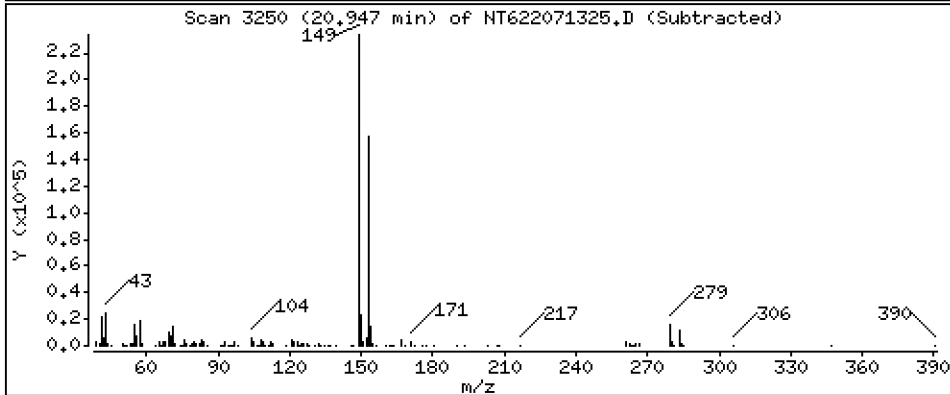
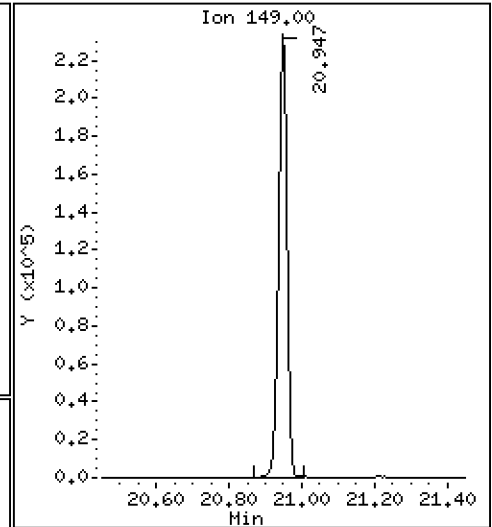
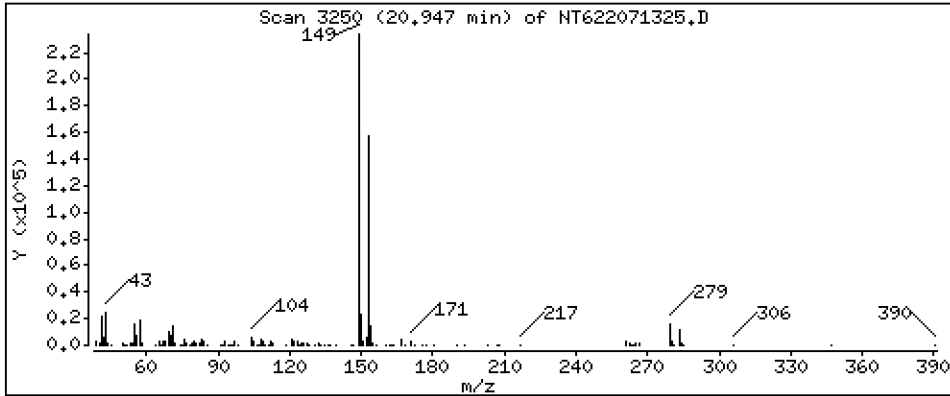
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

73 Di-n-octylphthalate

Concentration: 26,72 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

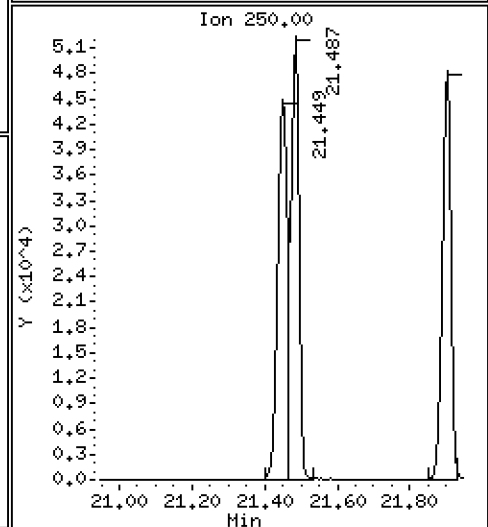
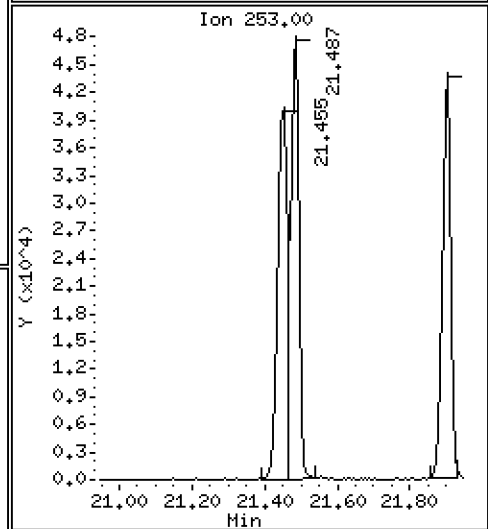
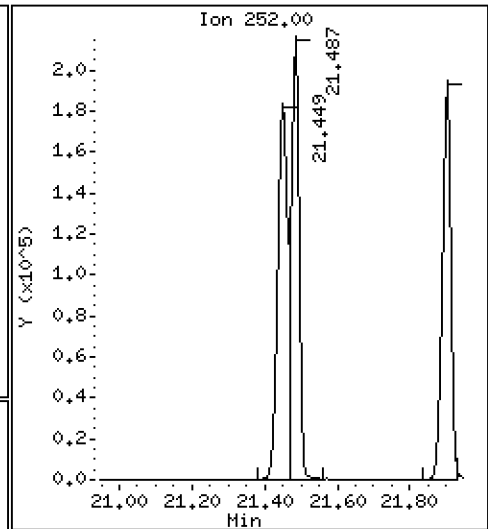
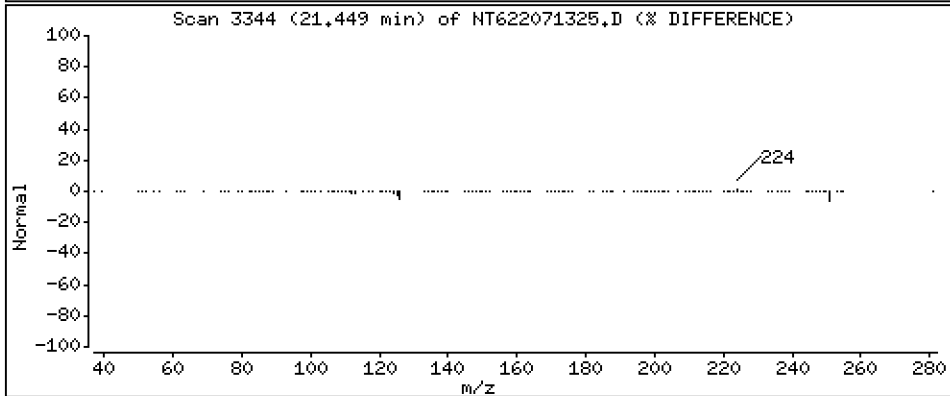
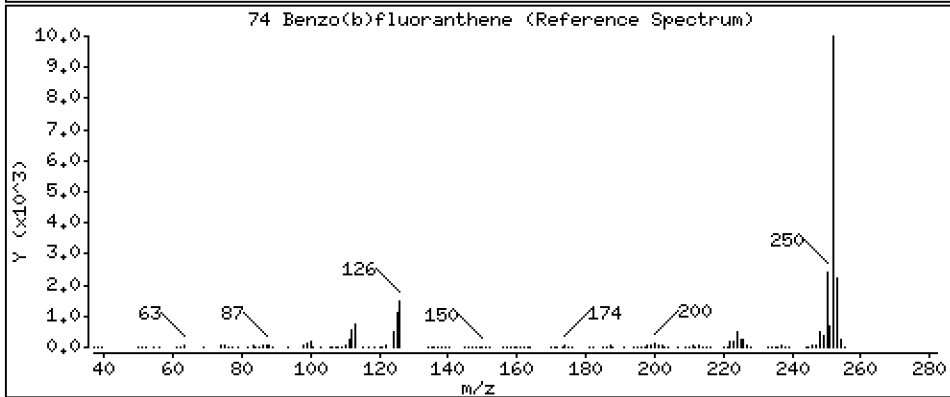
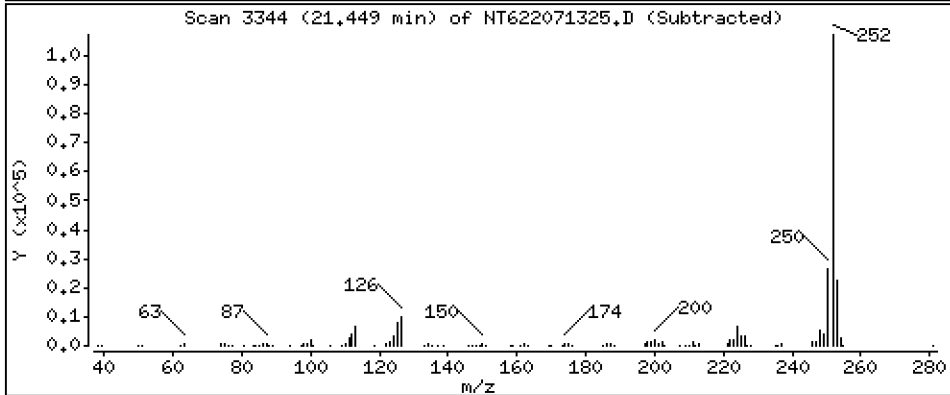
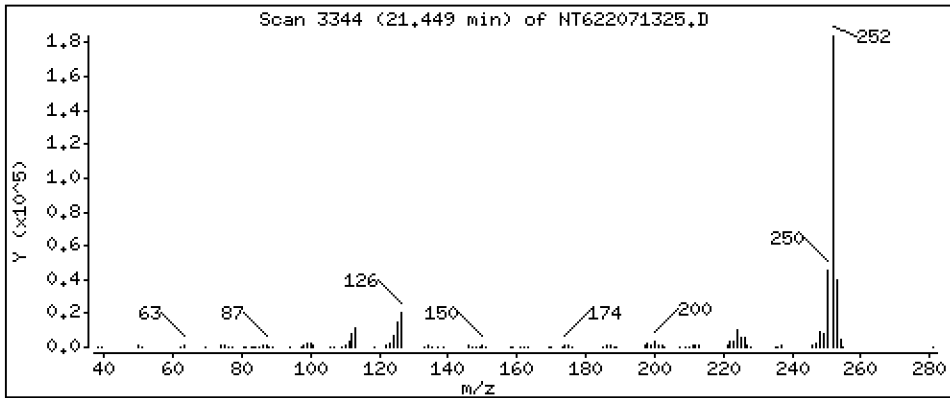
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

74 Benzo(b)fluoranthene

Concentration: 29.20 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

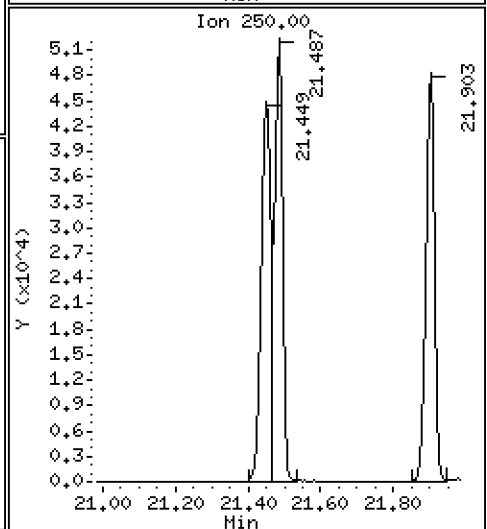
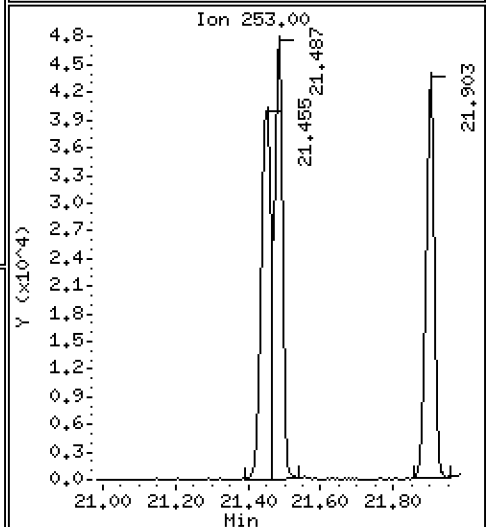
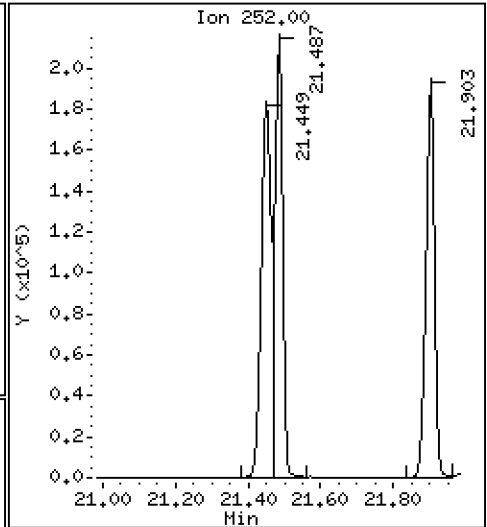
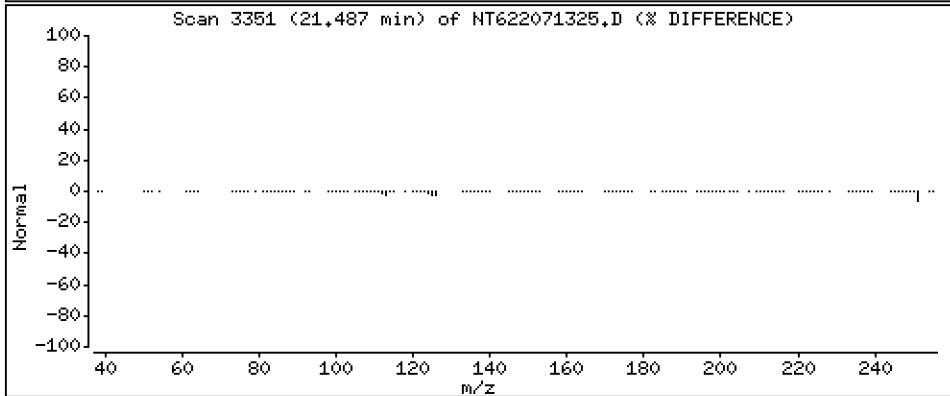
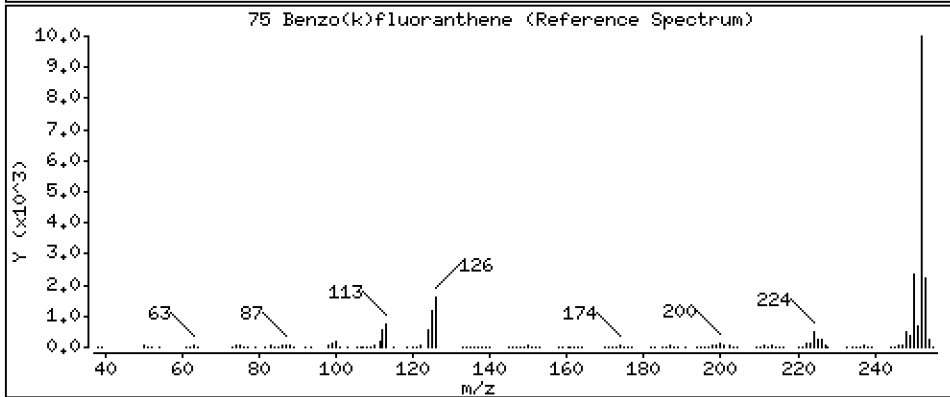
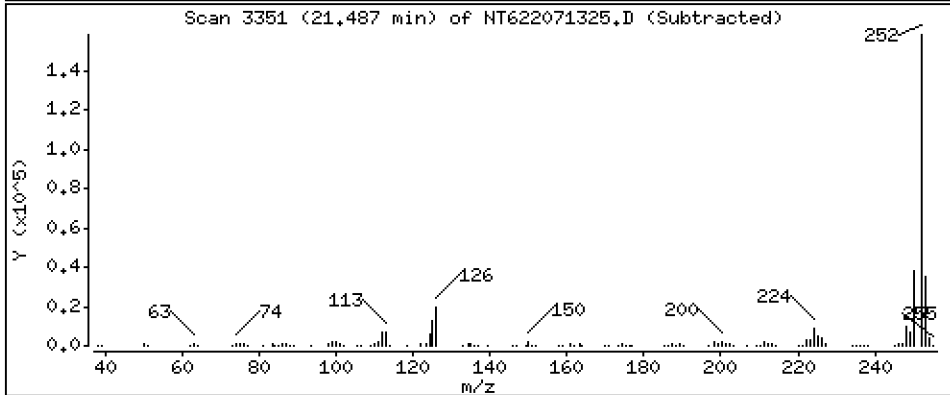
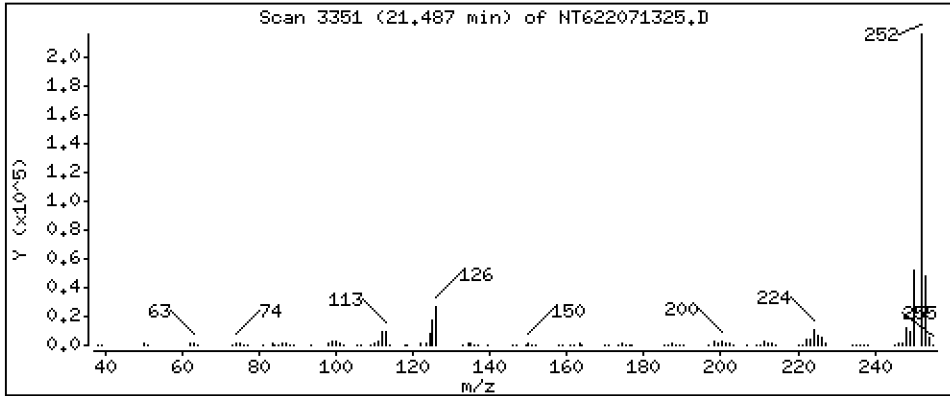
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

75 Benzo(k)fluoranthene

Concentration: 24.89 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

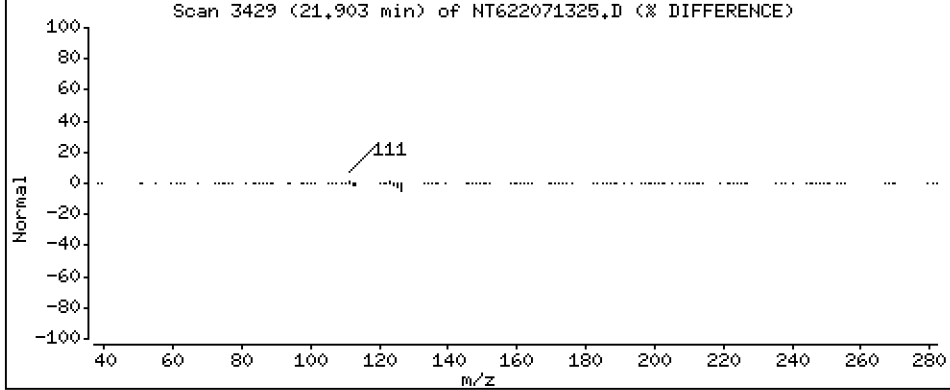
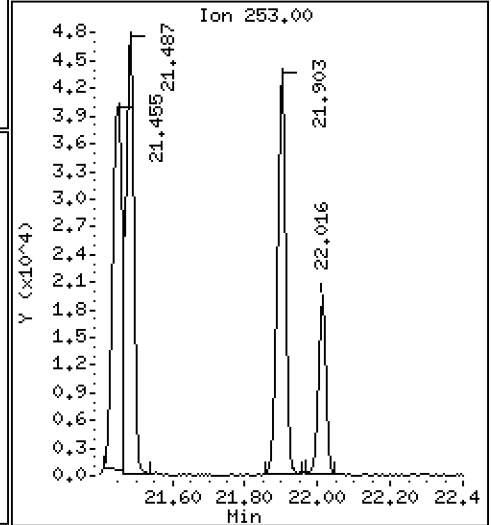
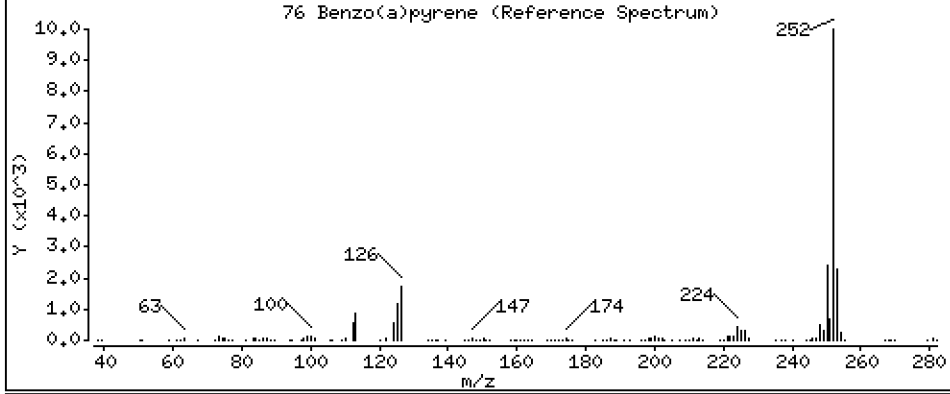
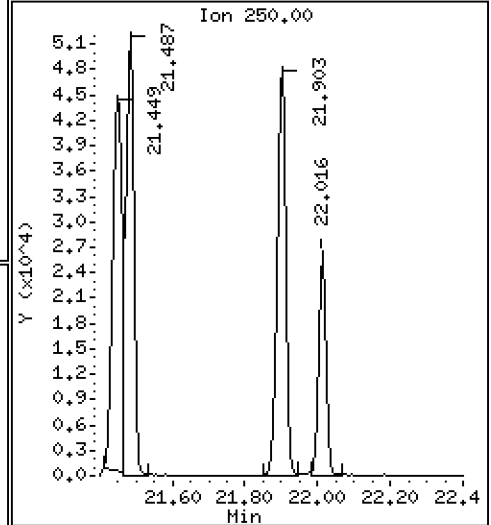
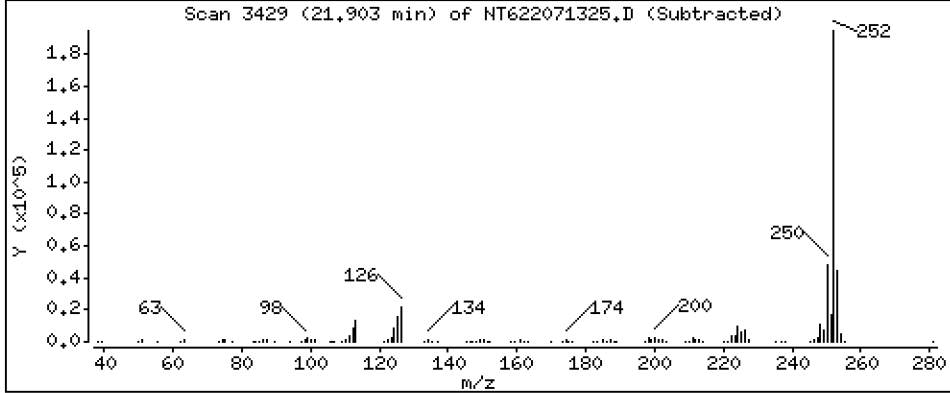
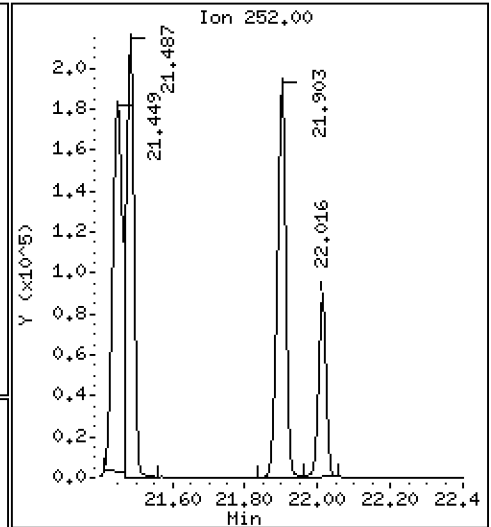
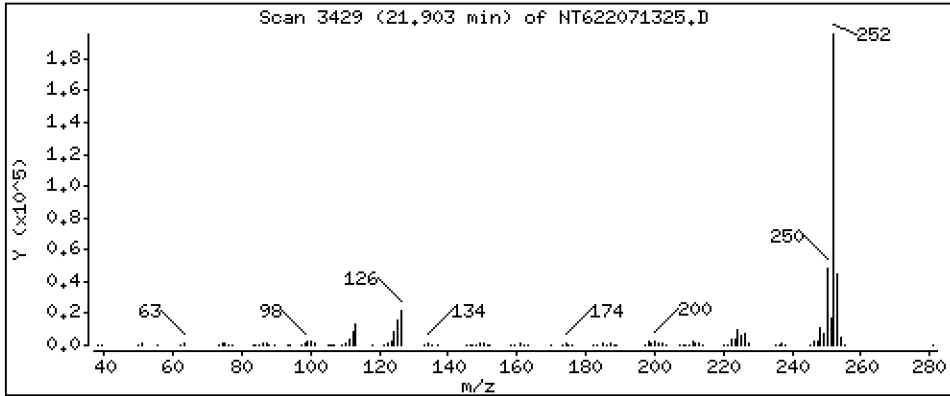
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

76 Benzo(a)pyrene

Concentration: 26,18 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

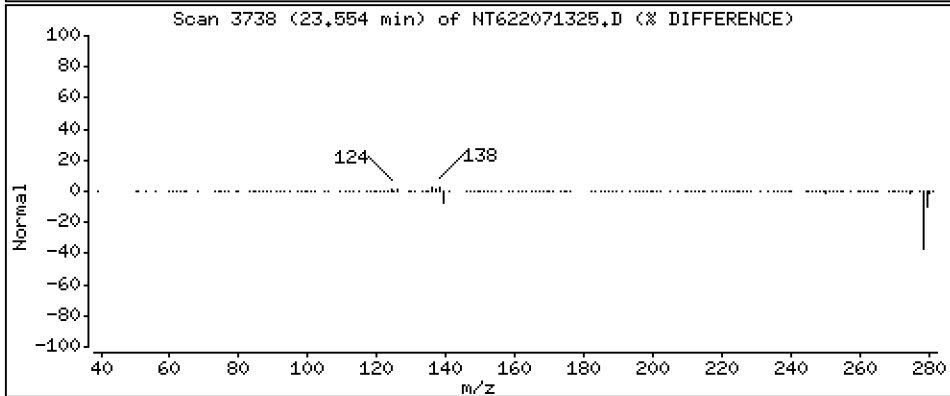
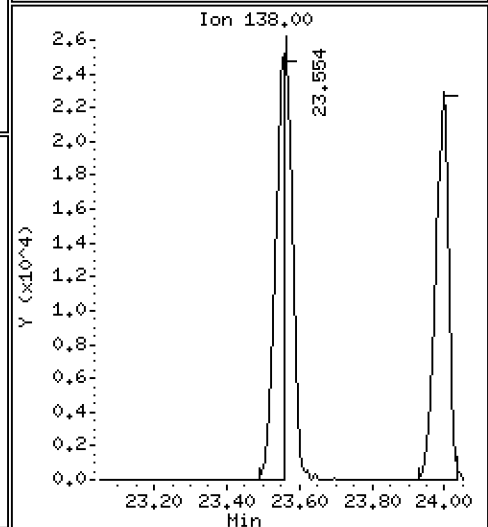
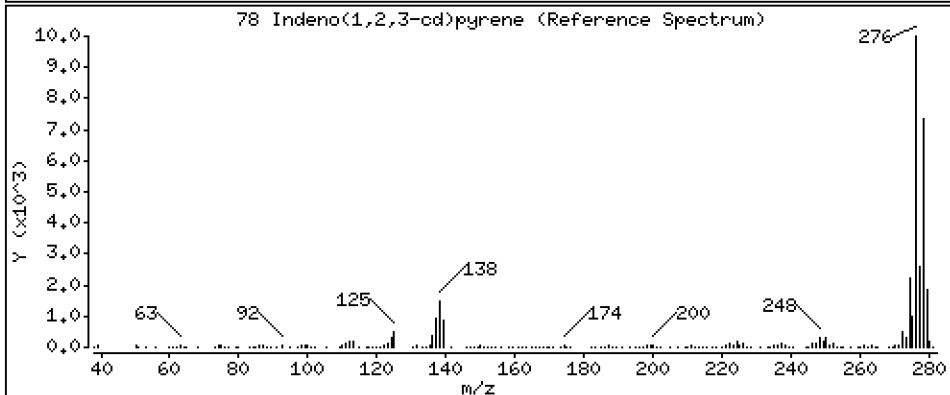
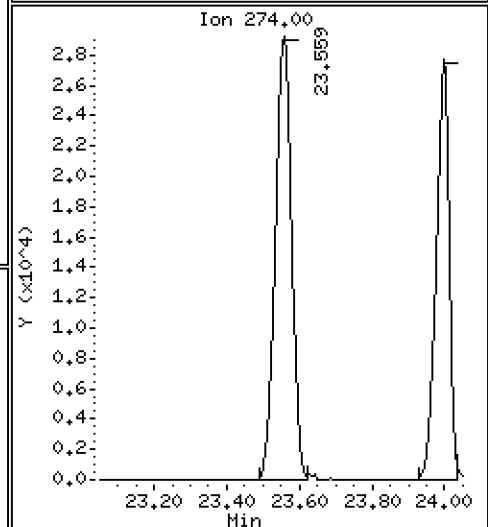
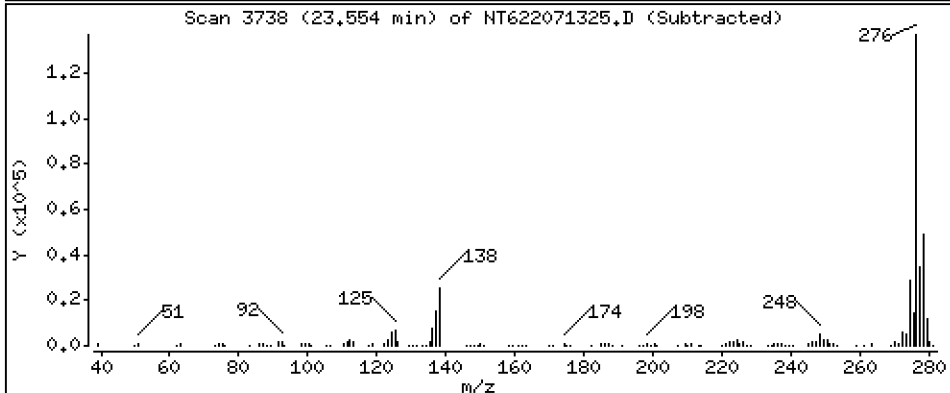
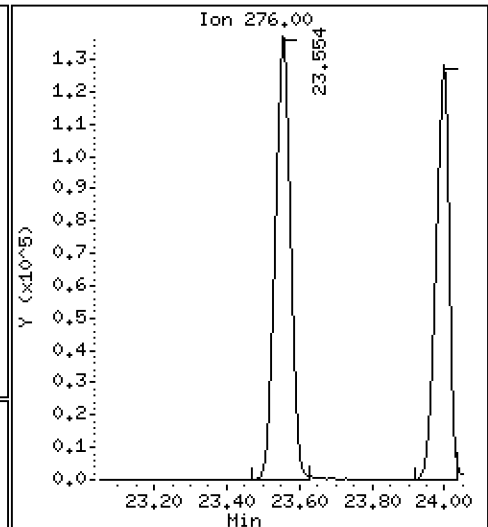
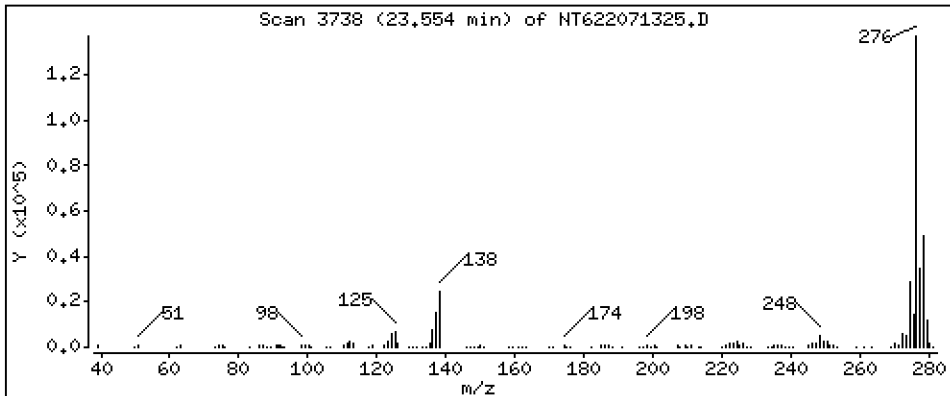
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

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

Concentration: 22,98 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

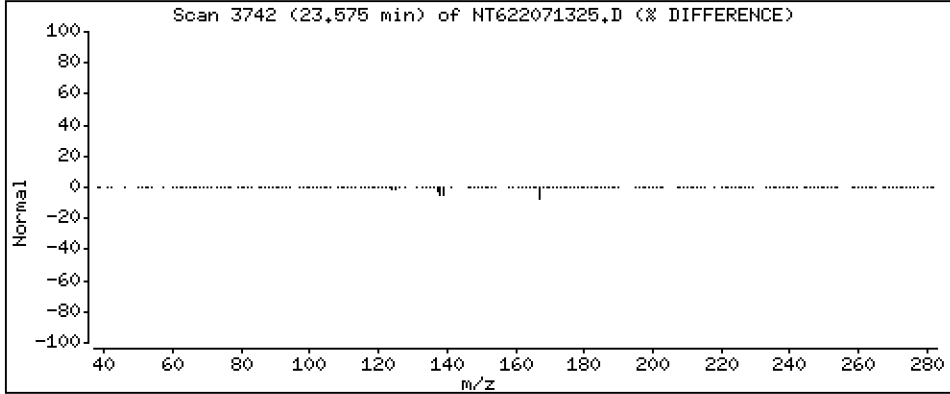
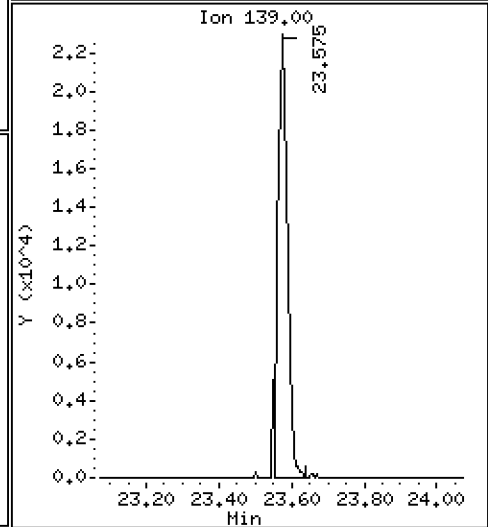
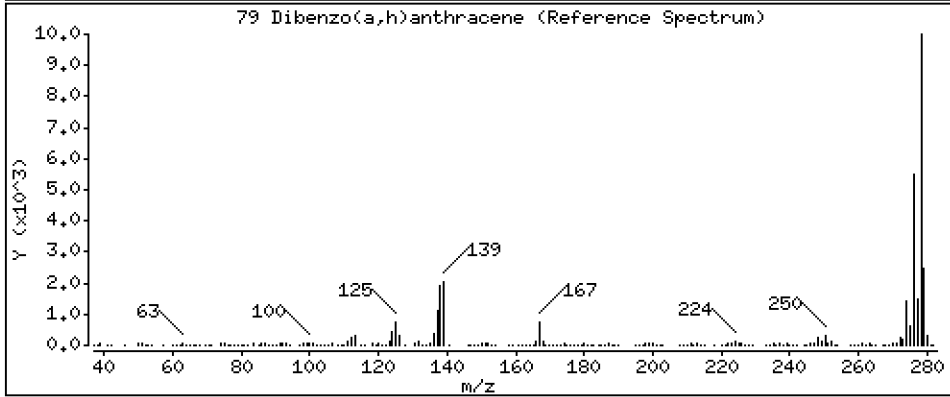
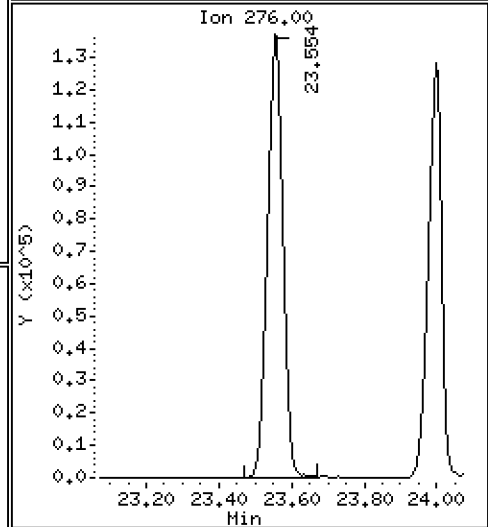
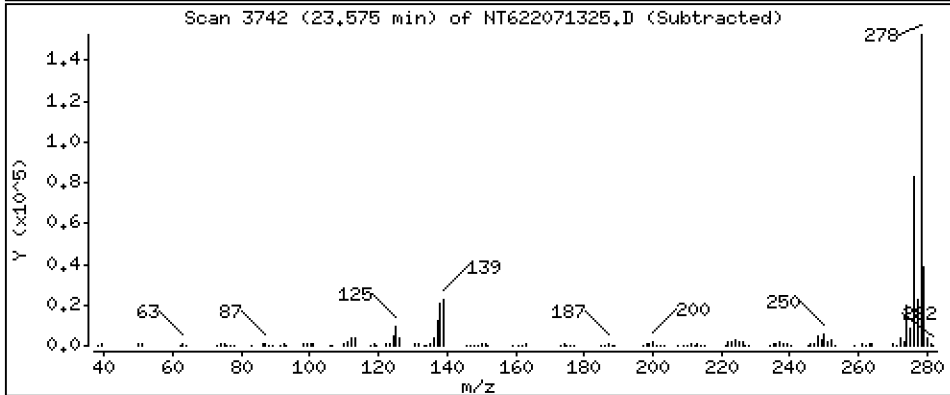
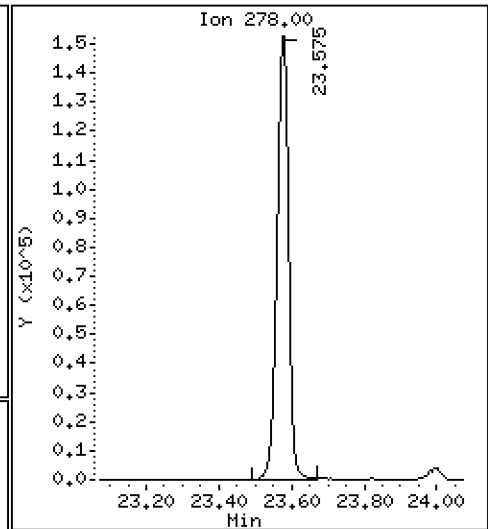
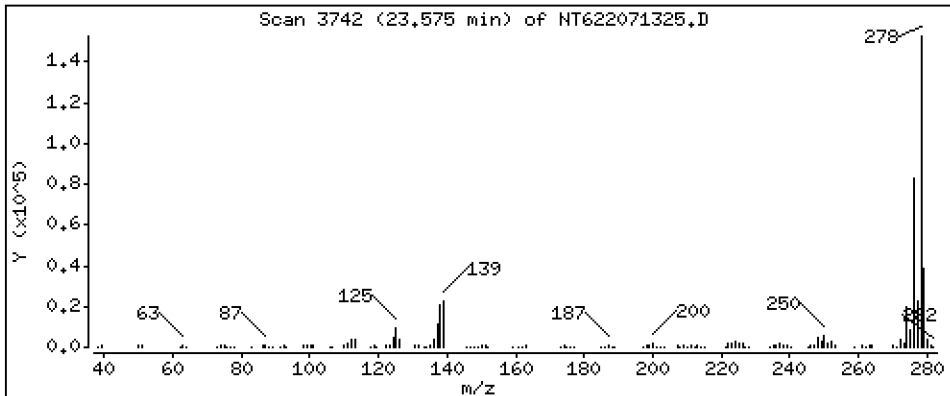
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

79 Dibenzo(a,h)anthracene

Concentration: 23,14 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

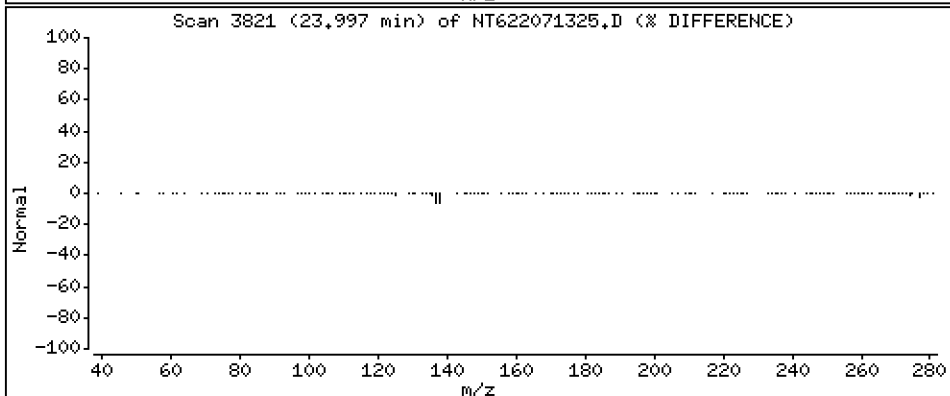
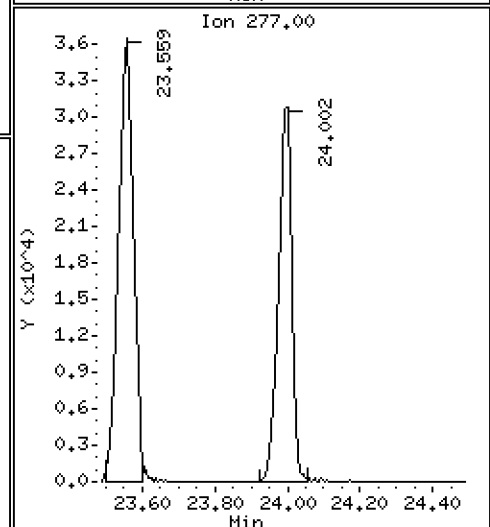
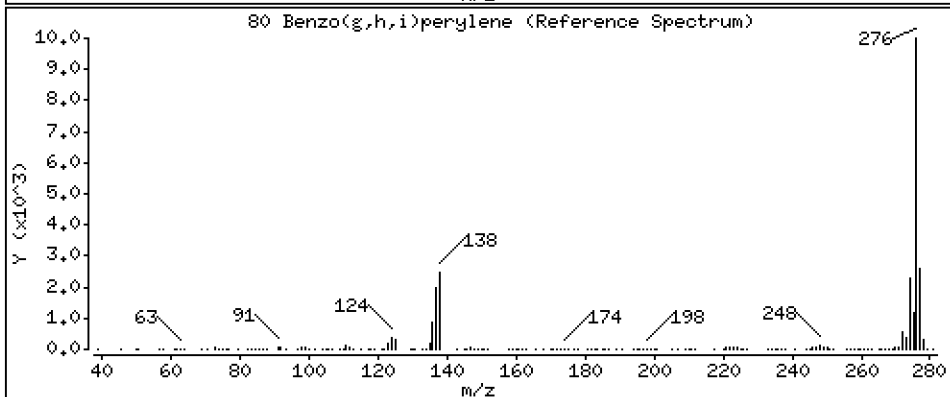
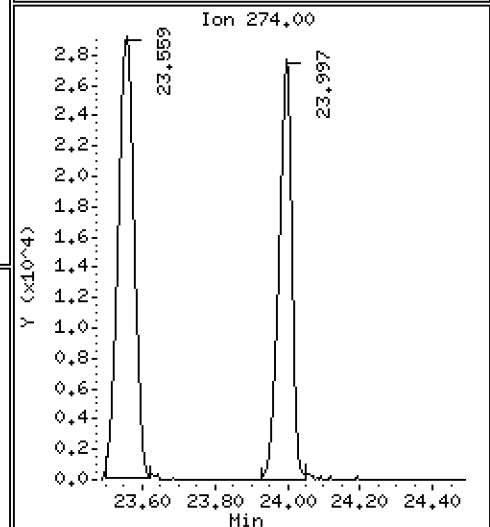
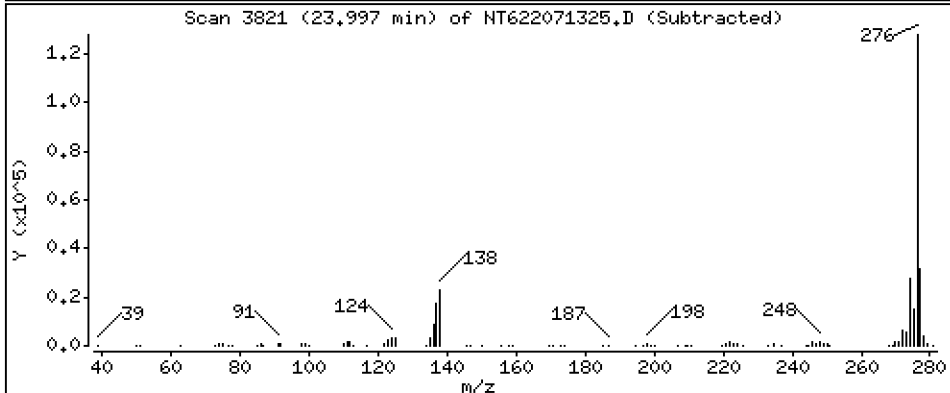
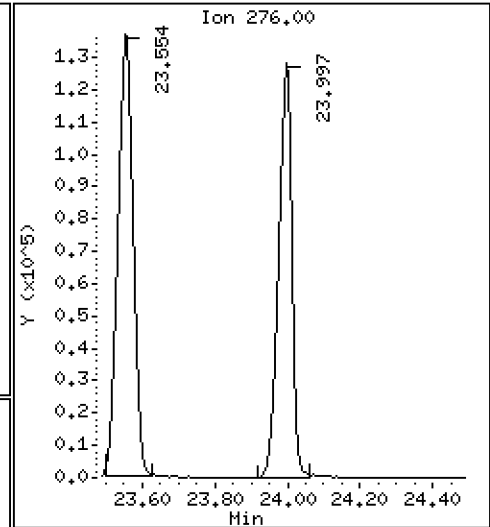
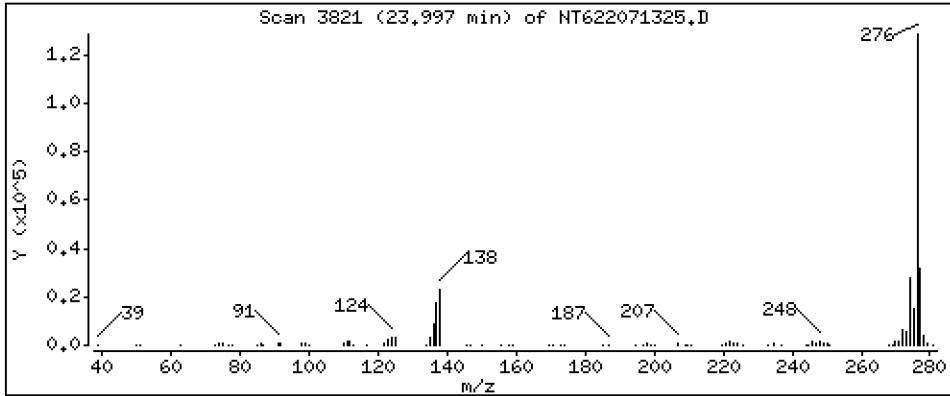
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

80 Benzo(g,h,i)perylene

Concentration: 21.44 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

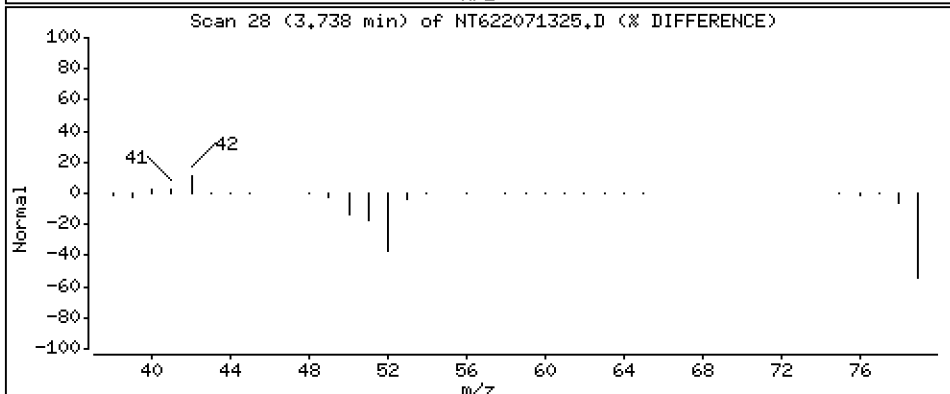
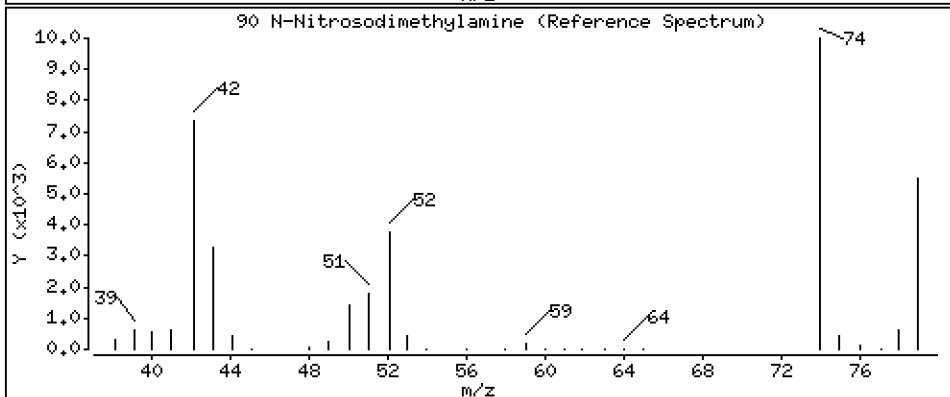
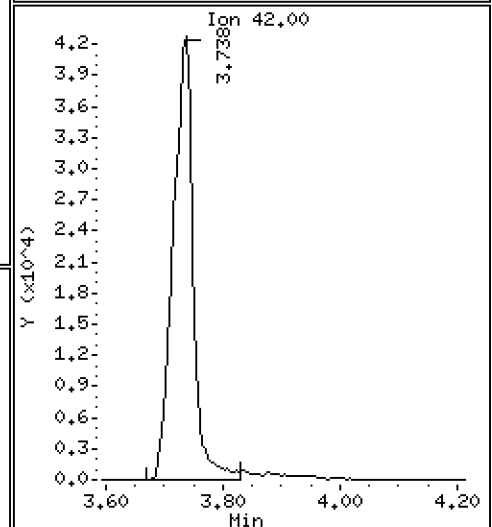
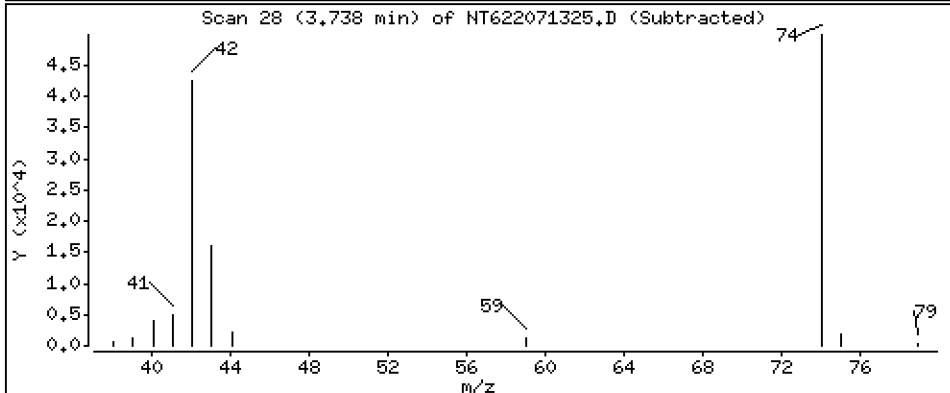
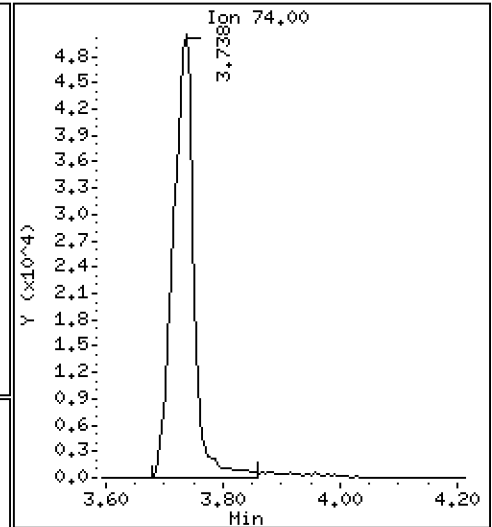
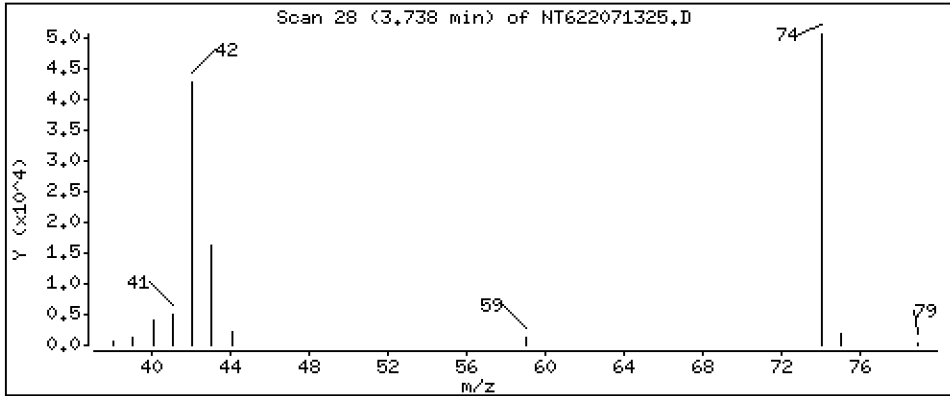
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

90 N-Nitrosodimethylamine

Concentration: 70.46 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

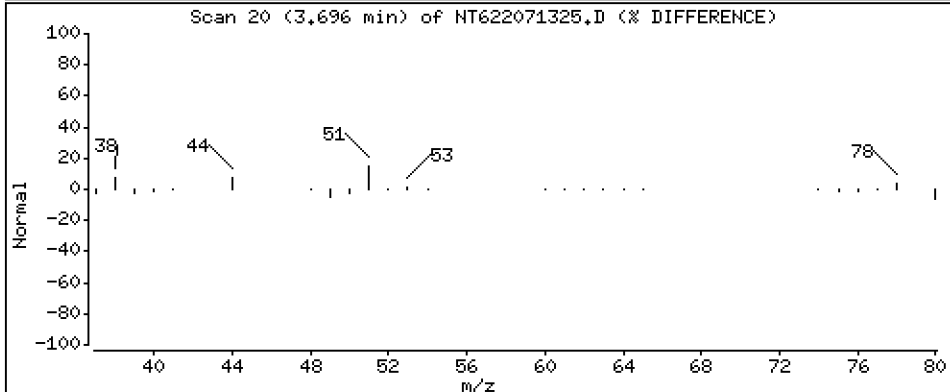
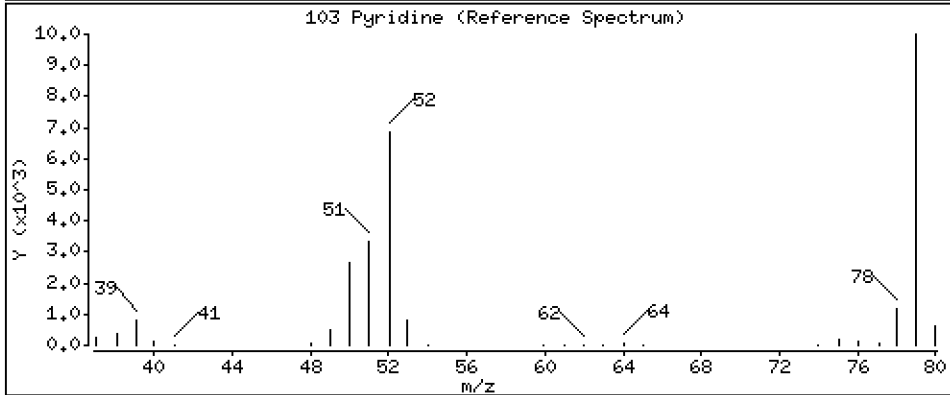
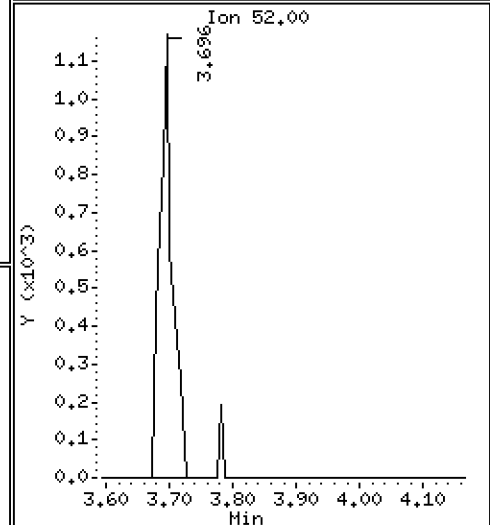
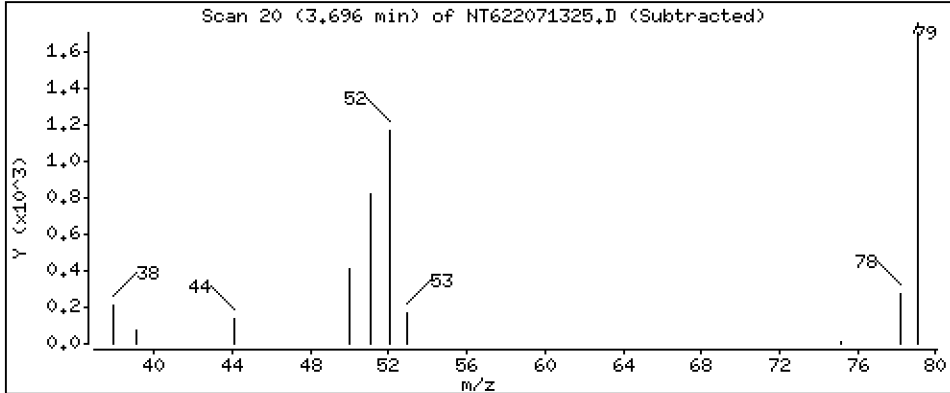
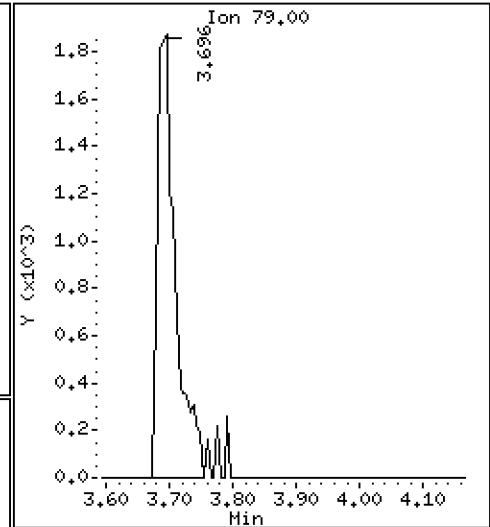
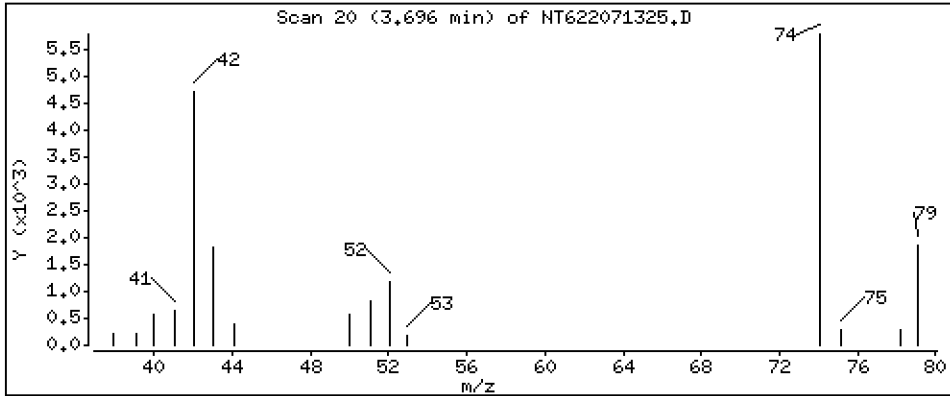
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

103 Pyridine

Concentration: 1,105 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

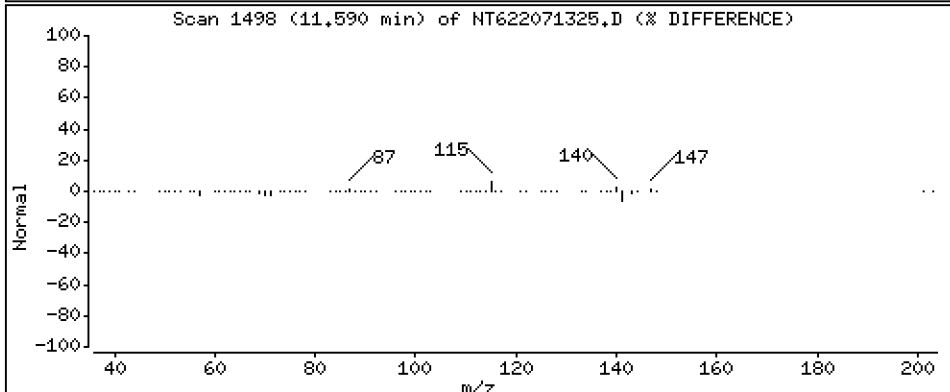
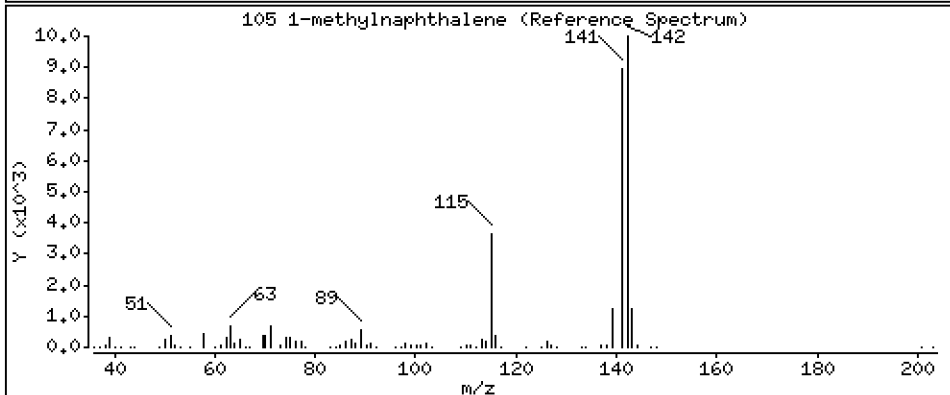
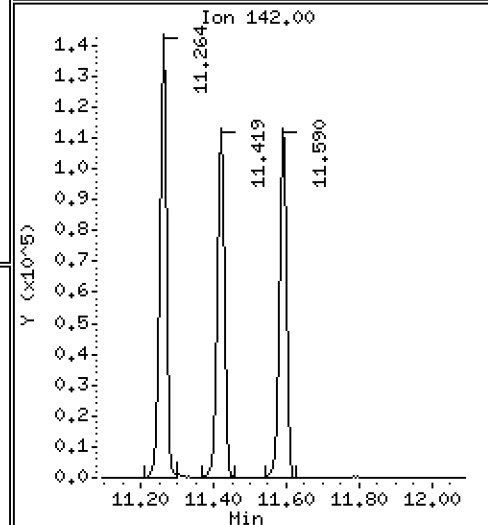
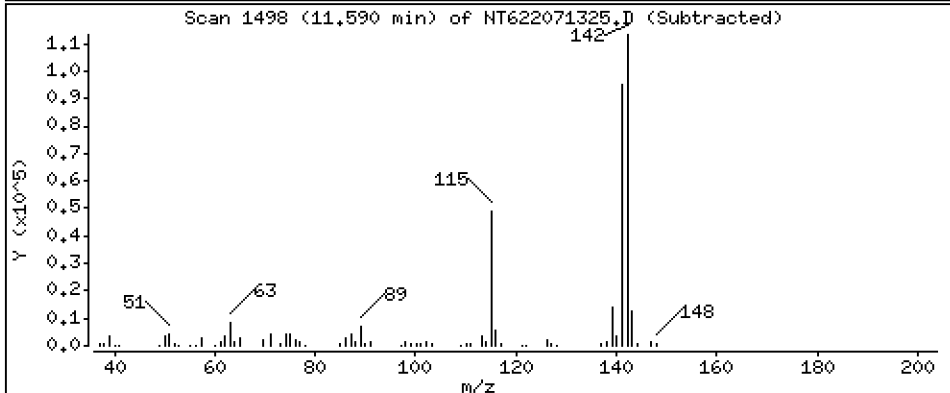
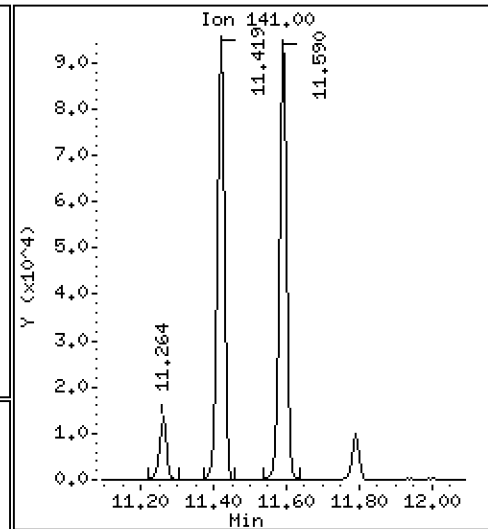
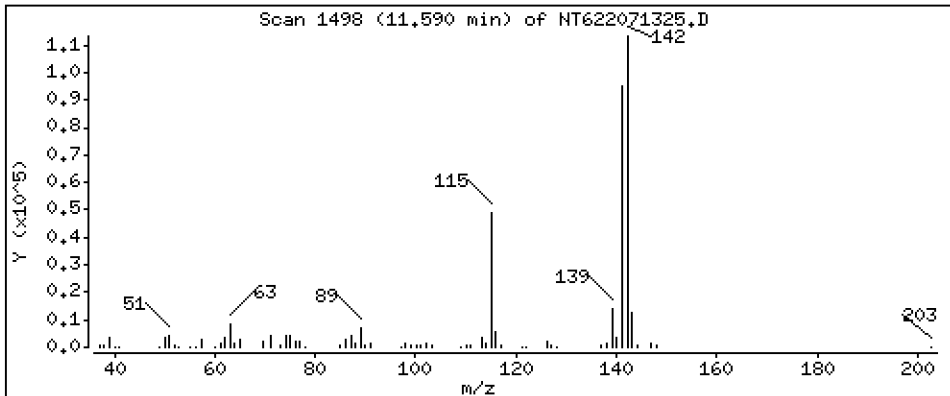
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

105 1-methylnaphthalene

Concentration: 24.89 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

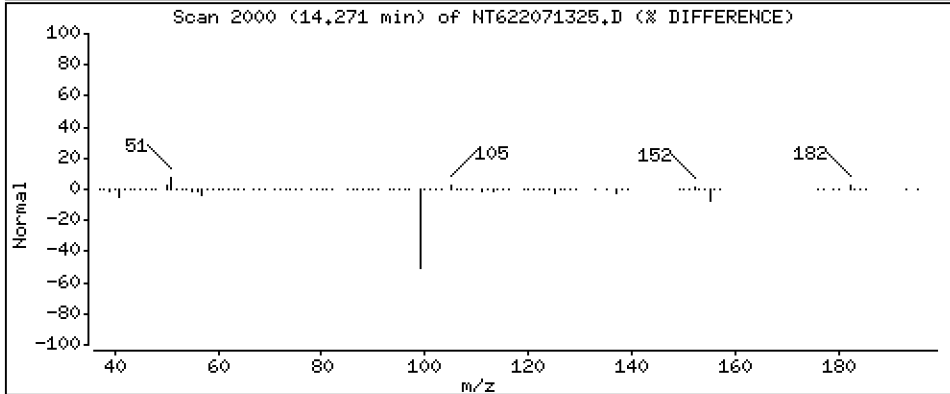
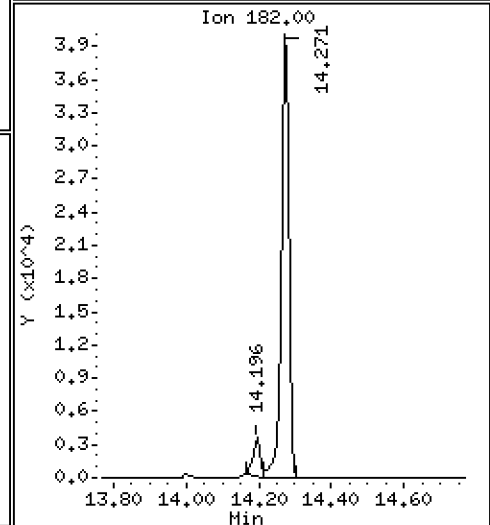
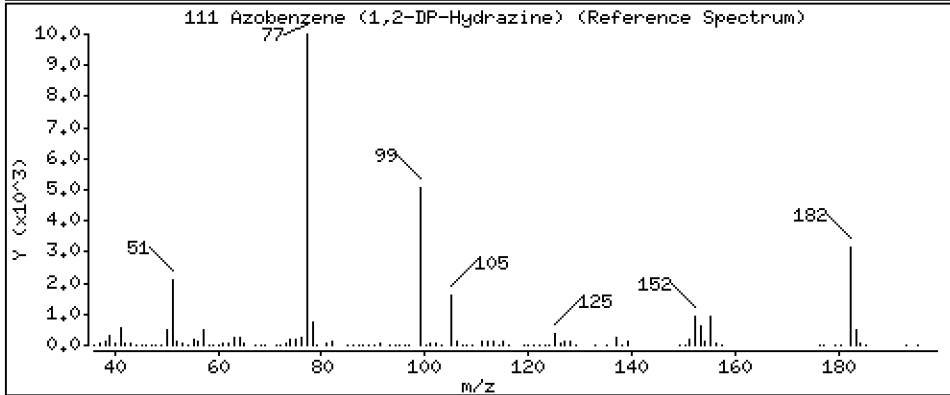
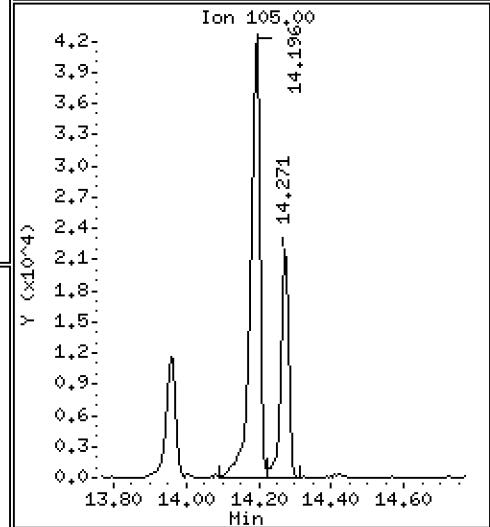
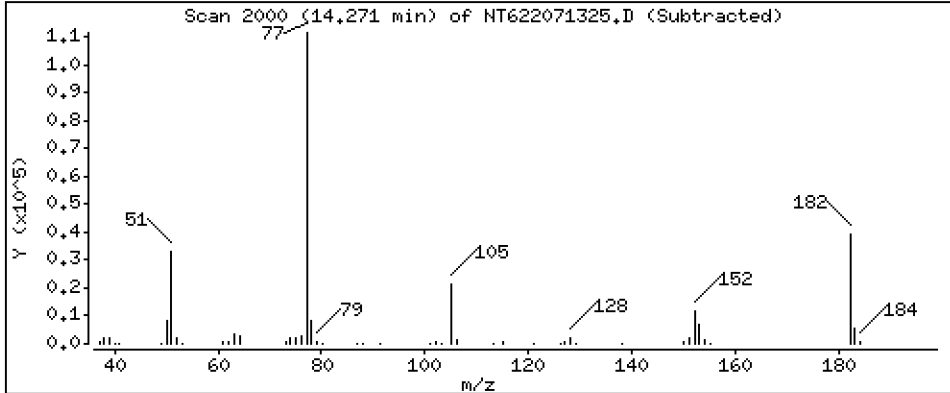
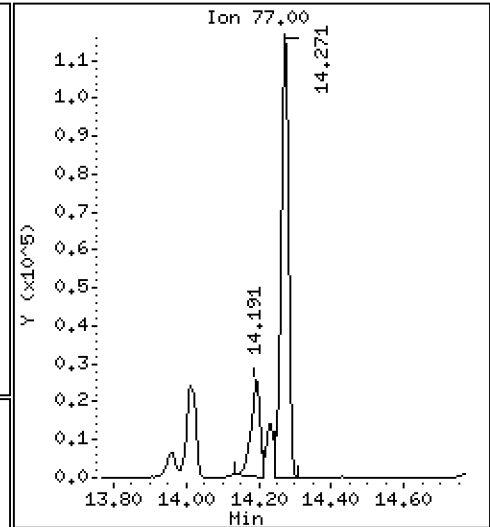
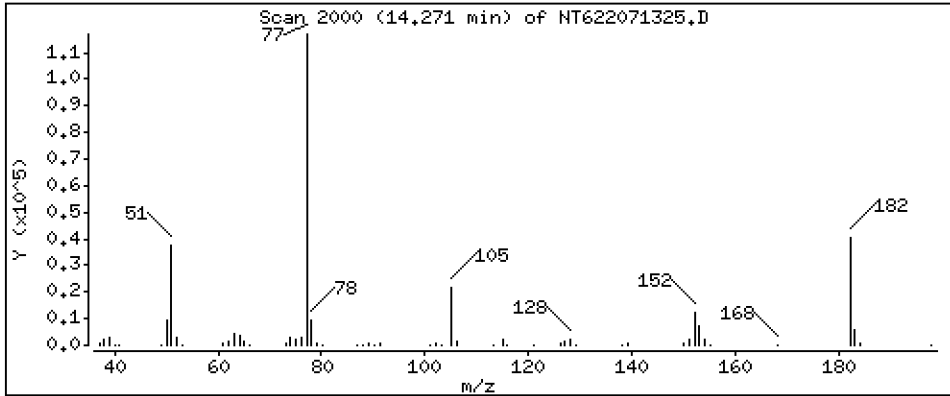
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 22,33 ug/mL



Date : 14-JUL-2022 00:21

Client ID:

Instrument: nt6.i

Sample Info: BKG0169-BSD1,

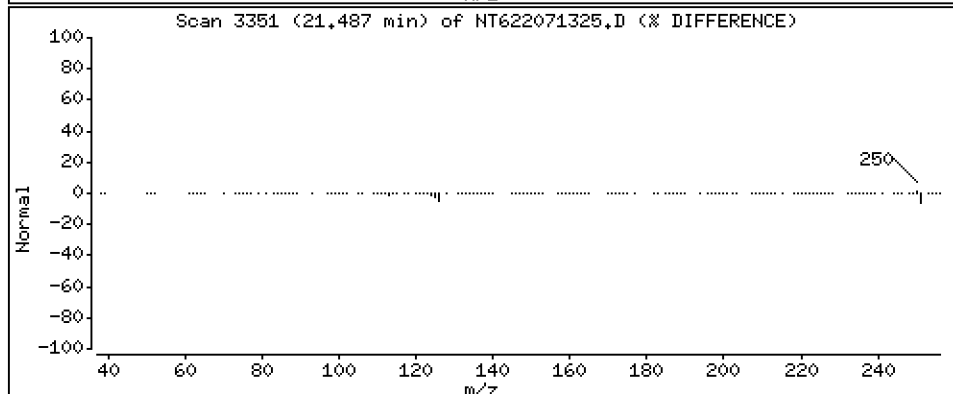
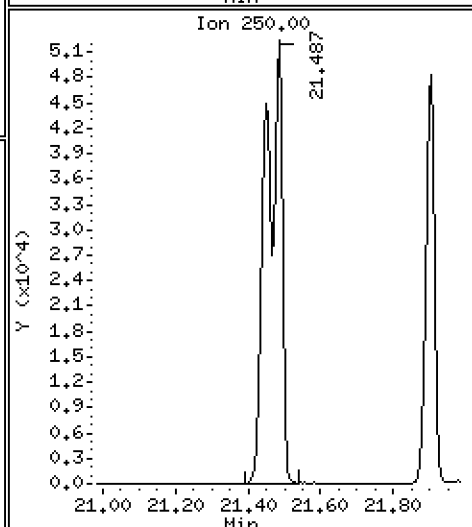
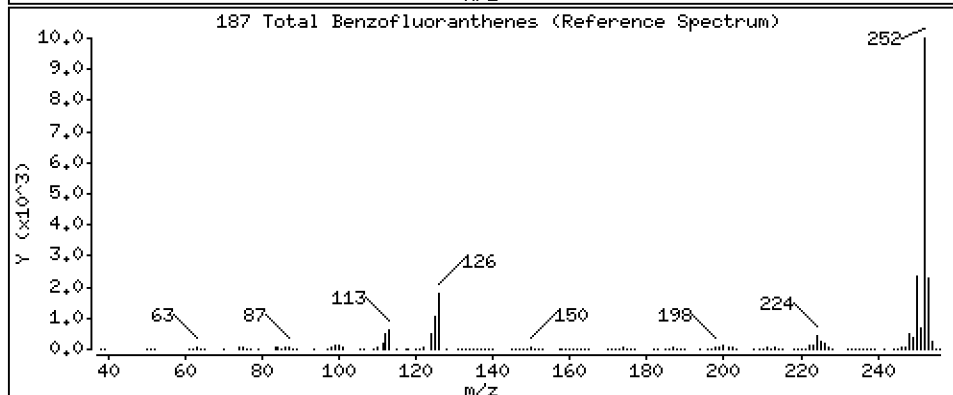
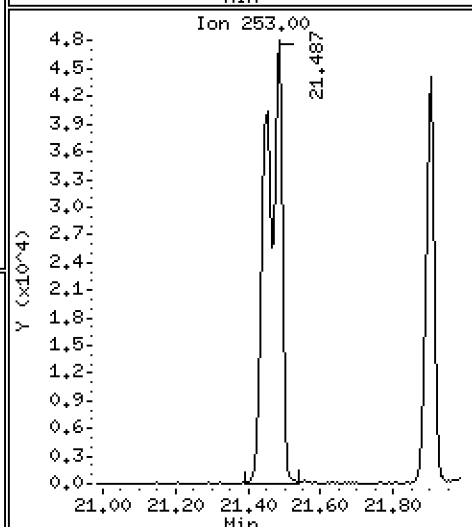
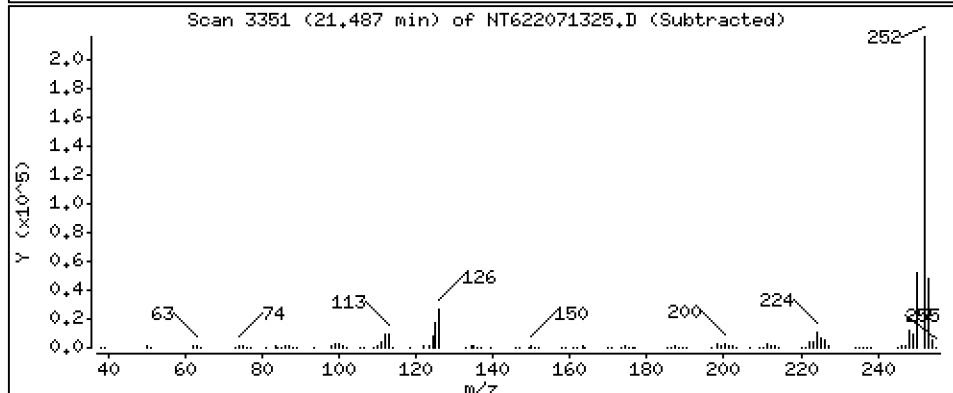
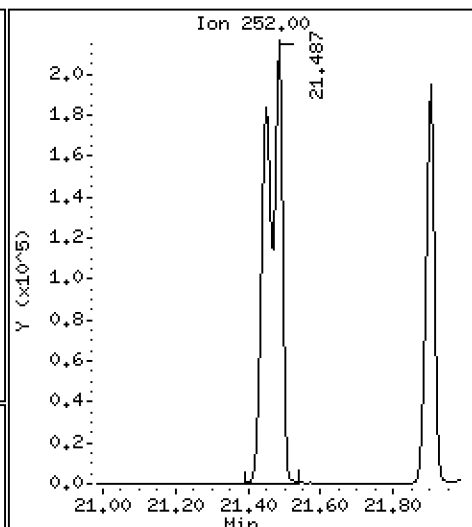
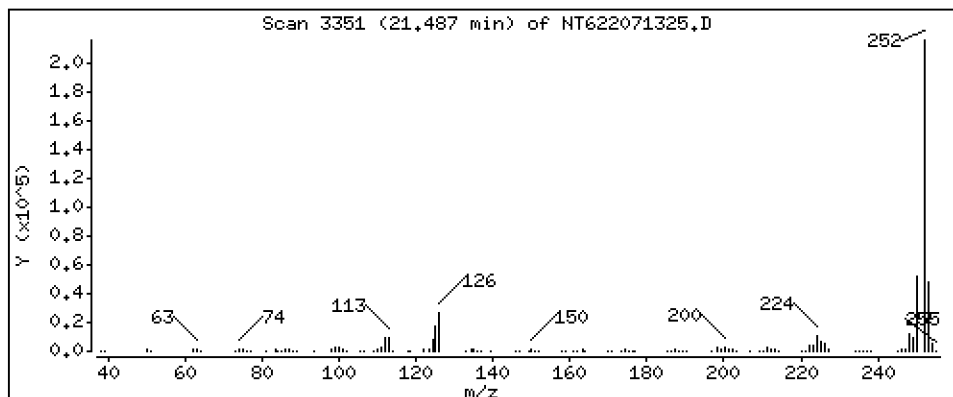
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

187 Total Benzofluoranthenes

Concentration: 53.67 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220713A.b\NT622071325.D
 Lab Smp Id: BKG0169-BSD1
 Inj Date : 14-JUL-2022 00:21
 Operator : JZ Inst ID: nt6.i
 Smp Info : BKG0169-BSD1,
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220713A.b\SW84620220516.m
 Meth Date : 14-Jul-2022 10:53 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 25
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: LLM DL.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.307	6.309	(0.766)	128931	34.4040	34.40
\$ 2 Phenol-d5	99		7.824	7.826	(0.950)	156577	36.5242	36.52
3 Phenol	94		7.840	7.842	(0.952)	90892	18.2416	18.24
\$ 5 2-Chlorophenol-d4	132		7.947	7.949	(0.965)	138512	35.7476	35.75
4 Bis(2-Chloroethyl)ether	93		7.909	7.906	(0.960)	67696	22.5145	22.51
6 2-Chlorophenol	128		7.973	7.970	(0.968)	76579	18.8232	18.82
7 1,3-Dichlorobenzene	146		8.176	8.173	(0.993)	77145	18.2511	18.25
* 8 1,4-Dichlorobenzene-d4	152		8.235	8.237	(1.000)	69335	20.0000	
9 1,4-Dichlorobenzene	146		8.262	8.259	(1.003)	78239	18.9752	18.98
\$ 10 1,2-Dichlorobenzene-d4	152		8.534	8.531	(1.036)	61215	22.0754	22.08
12 1,2-Dichlorobenzene	146		8.556	8.553	(1.039)	73664	18.8154	18.82
11 Benzyl alcohol	108		8.524	8.521	(1.035)	58614	25.1868	25.19
14 2,2'-oxybis(1-Chloropropane)	45		8.769	8.766	(1.065)	59050	25.5805	25.58
13 2-Methylphenol	108		8.753	8.756	(1.063)	71081	21.0625	21.06
17 Hexachloroethane	117		9.036	9.039	(1.097)	30325	18.2370	18.24
16 N-Nitroso-di-n-propylamine	70		8.988	8.985	(1.091)	57435	25.4790	25.48
15 4-Methylphenol	108		8.994	8.985	(1.092)	78671	21.8549	21.85
\$ 18 Nitrobenzene-d5	82		9.164	9.161	(0.892)	96626	27.1008	27.10
19 Nitrobenzene	77		9.191	9.194	(0.894)	83204	24.5739	24.57
20 Isophorone	82		9.581	9.567	(0.932)	159776	37.2225	37.22
21 2-Nitrophenol	139		9.704	9.706	(0.944)	47248	22.5528	22.55
22 2,4-Dimethylphenol	107		9.821	9.813	(0.956)	236871	60.1371	60.14
23 Bis(2-Chloroethoxy)methane	93		9.960	9.952	(0.969)	86606	28.2662	28.27
24 Benzoic acid	105		10.169	10.080	(0.990)	331151	131.733	131.7
25 2,4-Dichlorophenol	162		10.094	10.091	(0.982)	205295	63.9664	63.97
26 1,2,4-Trichlorobenzene	180		10.211	10.214	(0.994)	71624	19.5857	19.59
* 27 Naphthalene-d8	136		10.275	10.272	(1.000)	232187	20.0000	
28 Naphthalene	128		10.302	10.304	(1.003)	213076	21.8335	21.83
29 4-Chloroaniline	127		10.452	10.449	(1.017)	251847	62.7891	62.79
30 Hexachlorobutadiene	225		10.612	10.614	(1.033)	50166	21.2617	21.26
31 4-Chloro-3-methylphenol	107		11.263	11.261	(1.096)	225947	69.8994	69.90
32 2-Methylnaphthalene	141		11.418	11.415	(1.111)	130767	23.4656	23.47
33 Hexachlorocyclopentadiene	237		11.792	11.795	(0.898)	112393	40.4884	40.49

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
=====	=====	=====	=====	=====	=====	=====	=====
34 2,4,6-Trichlorophenol	196	11.936	11.934	(0.909)	186320	65.0116	65.01
35 2,4,5-Trichlorophenol	196	12.001	11.998	(0.914)	190680	62.4793	62.48
\$ 36 2-Fluorobiphenyl	172	12.059	12.056	(0.918)	226596	24.2705	24.27
37 2-Chloronaphthalene	162	12.198	12.195	(0.929)	160313	21.5684	21.57
38 2-Nitroaniline	65	12.449	12.436	(0.948)	126141	67.1345	67.13
39 Dimethylphthalate	163	12.812	12.799	(0.976)	218673	26.8838	26.88
40 Acenaphthylene	152	12.882	12.874	(0.981)	273471	22.6921	22.69
41 2,6-Dinitrotoluene	165	12.909	12.895	(0.983)	130116	70.1736	70.17
* 42 Acenaphthene-d10	164	13.133	13.125	(1.000)	153472	20.0000	
43 3-Nitroaniline	138	13.133	13.114	(1.000)	131153	72.4328	72.43
44 Acenaphthene	153	13.181	13.178	(1.004)	161453	22.5960	22.60
45 2,4-Dinitrophenol	184	13.293	13.274	(1.012)	169172	128.521	128.5
46 Dibenzofuran	168	13.443	13.434	(1.024)	260696	25.2464	25.25
47 4-Nitrophenol	109	13.448	13.445	(1.024)	98784	75.4842	75.48
48 2,4-Dinitrotoluene	165	13.539	13.520	(1.031)	175839	73.4801	73.48
50 Diethylphthalate	149	13.961	13.947	(1.063)	229314	29.1863	29.19
49 Fluorene	166	13.998	13.995	(1.066)	203398	24.6237	24.62
51 4-Chlorophenyl-phenylether	204	14.014	14.017	(1.067)	119028	25.6782	25.68
52 4-Nitroaniline	138	14.142	14.113	(1.077)	118940	72.6357	72.64
53 4,6-Dinitro-2-methylphenol	198	14.196	14.177	(0.916)	205994	125.400	125.4
54 N-Nitrosodiphenylamine	169	14.233	14.225	(0.918)	151955	23.3673	23.37
\$ 55 2,4,6-Tribromophenol	330	14.425	14.422	(1.098)	60480	46.3145	46.31
56 4-Bromophenyl-phenylether	248	14.799	14.796	(0.955)	73156	25.9589	25.96
57 Hexachlorobenzene	284	15.018	15.021	(0.969)	74274	24.2173	24.22
58 Pentachlorophenol	266	15.323	15.320	(0.988)	136827	66.7830	66.78
* 59 Phenanthrene-d10	188	15.504	15.501	(1.000)	300011	20.0000	
60 Phenanthrene	178	15.542	15.539	(1.002)	309125	24.9971	25.00
61 Anthracene	178	15.611	15.608	(1.007)	302034	24.4168	24.42
62 Carbazole	167	15.900	15.897	(1.025)	260771	24.5246	24.52
63 Di-n-butylphthalate	149	16.594	16.596	(1.070)	378361	28.4160	28.42
64 Fluoranthene	202	17.475	17.472	(1.127)	389806	27.8900	27.89
65 Pyrene	202	17.833	17.830	(0.900)	390450	23.8664	23.87
\$ 66 Terphenyl-d14	244	18.137	18.140	(0.915)	369831	29.8550	29.85
67 Butylbenzylphthalate	149	19.019	19.016	(0.960)	173277	27.0541	27.05
68 Benzo(a)anthracene	228	19.793	19.790	(0.999)	377824	26.1511	26.15
* 69 Chrysene-d12	240	19.820	19.817	(1.000)	260573	20.0000	
70 3,3'-Dichlorobenzidine	252	19.809	19.801	(0.999)	300174	69.3664	69.37
71 Chrysene	228	19.863	19.854	(1.002)	319943	24.1058	24.11
72 bis(2-Ethylhexyl)phthalate	149	20.001	20.004	(0.955)	220241	27.5802	27.58
* 134 Di-n-octylphthalate-d4	153	20.936	20.939	(1.000)	345176	20.0000	
73 Di-n-octylphthalate	149	20.947	20.949	(1.000)	384990	26.7244	26.72
74 Benzo(b)fluoranthene	252	21.449	21.446	(0.976)	379350	29.2026	29.20
75 Benzo(k)fluoranthene	252	21.486	21.483	(0.977)	324017	24.8934	24.89
76 Benzo(a)pyrene	252	21.903	21.900	(0.996)	319147	26.1803	26.18
* 77 Perylene-d12	264	21.983	21.980	(1.000)	263142	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	23.553	23.550	(1.071)	409491	22.9814	22.98
79 Dibenzo(a,h)anthracene	278	23.575	23.572	(1.072)	344895	23.1390	23.14
80 Benzo(g,h,i)perylene	276	23.997	23.988	(1.092)	327604	21.4361	21.44
90 N-Nitrosodimethylamine	74	3.738	3.714	(0.454)	123271	70.4568	70.46
103 Pyridine	79	3.695	3.666	(0.449)	3638	1.10474	1.105
105 1-methylnaphthalene	141	11.589	11.592	(1.128)	130912	24.8896	24.89
111 Azobenzene (1,2-DP-Hydrazine)	77	14.271	14.268	(0.920)	170598	22.3349	22.33
187 Total Benzofluoranthenes	252	21.486	21.483	(0.977)	663407	53.6660	53.67
144 alpha-Terpineol	59	Compound Not Detected.					

Compounds	QUANT	SIG					CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 13-JUL-2022
 Lab File ID: NT622071325.D Calibration Time: 22:06
 Lab Smp Id: BKG0169-BSD1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220713A.b\SW84620220516.m
 Misc Info: 22-

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	49157	24579	98314	69335	41.05
27 Naphthalene-d8	173237	86619	346474	232187	34.03
42 Acenaphthene-d10	116765	58383	233530	153472	31.44
59 Phenanthrene-d10	233112	116556	466224	300011	28.70
69 Chrysene-d12	196434	98217	392868	260573	32.65
134 Di-n-octylphthala	268008	134004	536016	345176	28.79
77 Perylene-d12	200282	100141	400564	263142	31.39

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.24	7.74	8.74	8.24	-0.03
27 Naphthalene-d8	10.27	9.77	10.77	10.28	0.03
42 Acenaphthene-d10	13.13	12.63	13.63	13.13	0.06
59 Phenanthrene-d10	15.50	15.00	16.00	15.50	0.02
69 Chrysene-d12	19.82	19.32	20.32	19.82	0.01
134 Di-n-octylphthala	20.94	20.44	21.44	20.94	-0.01
77 Perylene-d12	21.98	21.48	22.48	21.98	0.01

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

REVIEW SUMMARY FOR FILE - NT622071325.D

Lab ID: BKG0169-BSD1
nt6.i, SW84620220516.m, 14-JUL-2022 00:21

RT CO-ELUTION COMPOUNDS

13.133 Acenaphthene-d10 and 3-Nitroaniline

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, LLMDL.sub = 0.2000

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



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

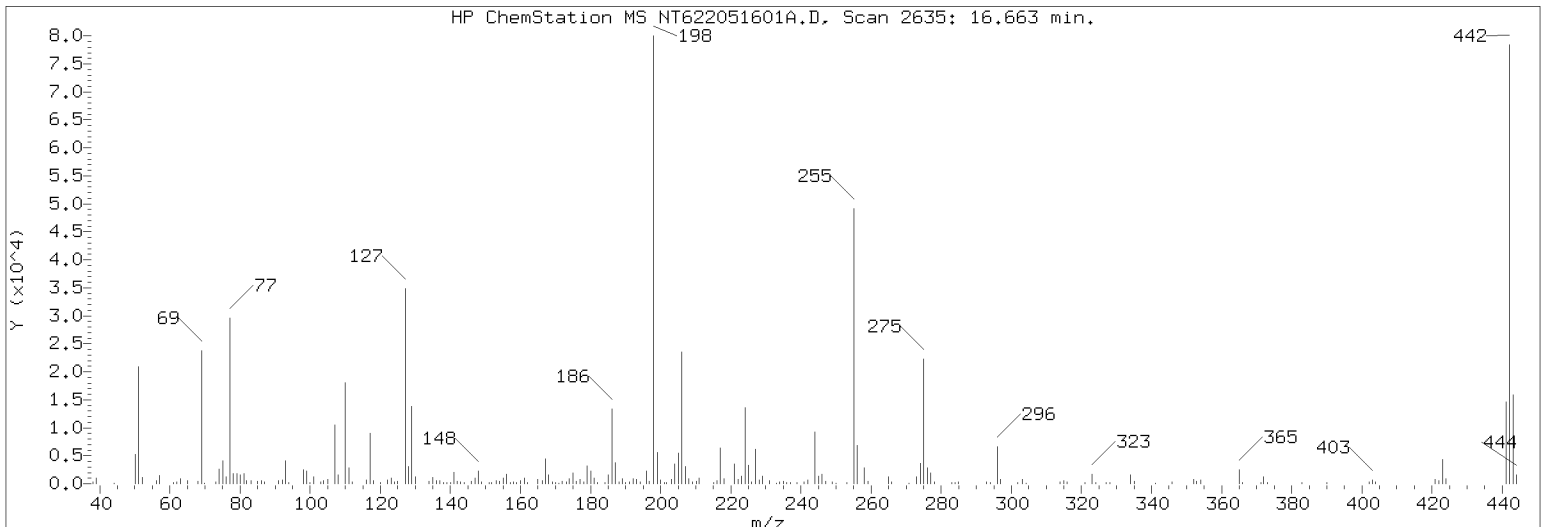
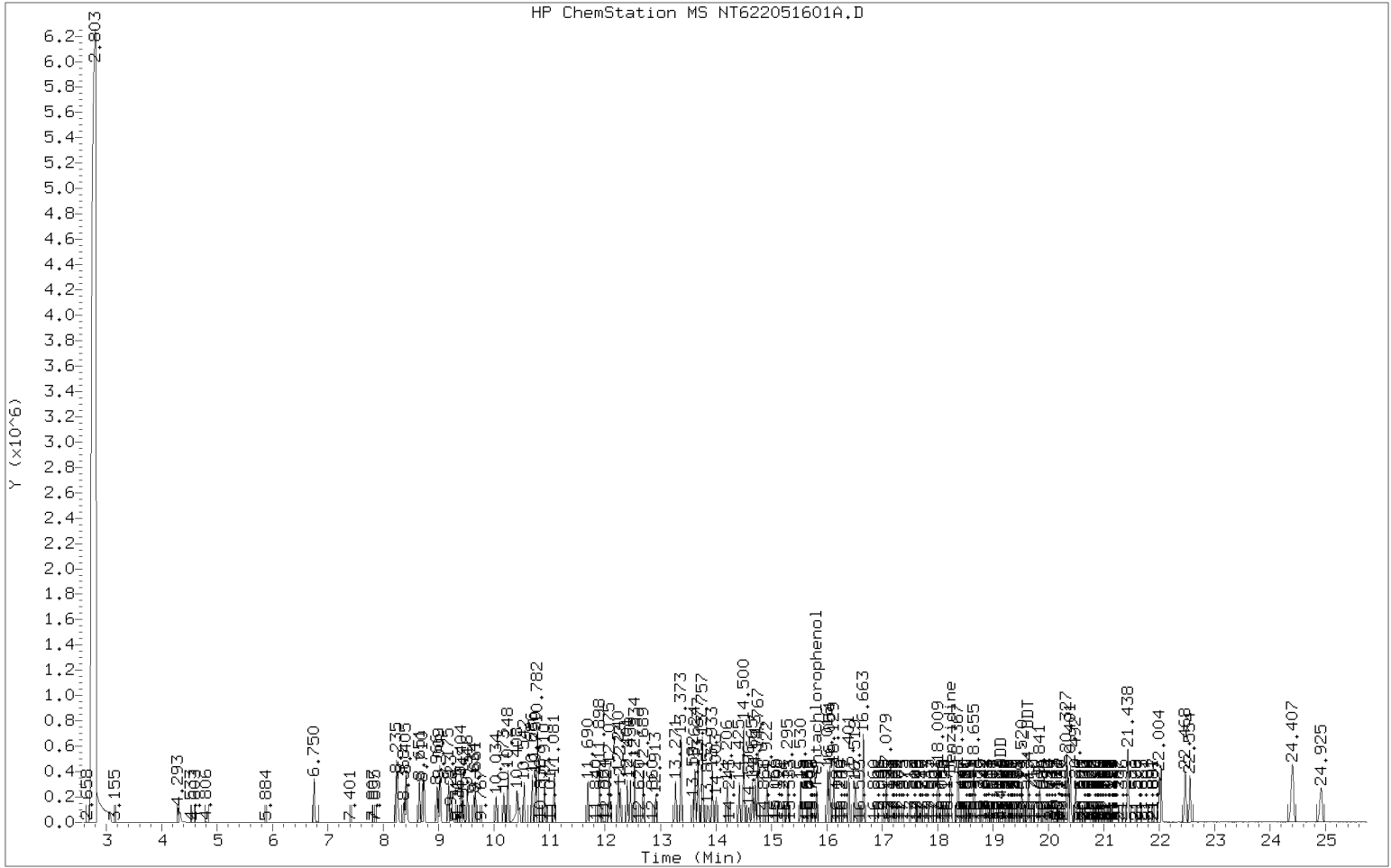
Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Lab File ID:	<u>NT622051601A.D</u>	Injection Date:	<u>05/16/22</u>
Instrument ID:	<u>NT6</u>	Injection Time:	<u>17:11</u>
Sequence:	<u>SKE0212</u>	Lab Sample ID:	<u>SKE0212-TUN1</u>

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	1.4	PASS
69	Less than 100% of 198	30.1	PASS
70	Less than 2% of 69	0.564	PASS
197	Less than 2% of 198	0.23	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.73	PASS
365	1 - 100% of 198	3.35	PASS
441	Less than 150% of 443	88.5	PASS
442	1 - 200% of 198	101	PASS
443	15 - 24% of 442	20.2	PASS
4,4'-DDD	Less than 20% of		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		

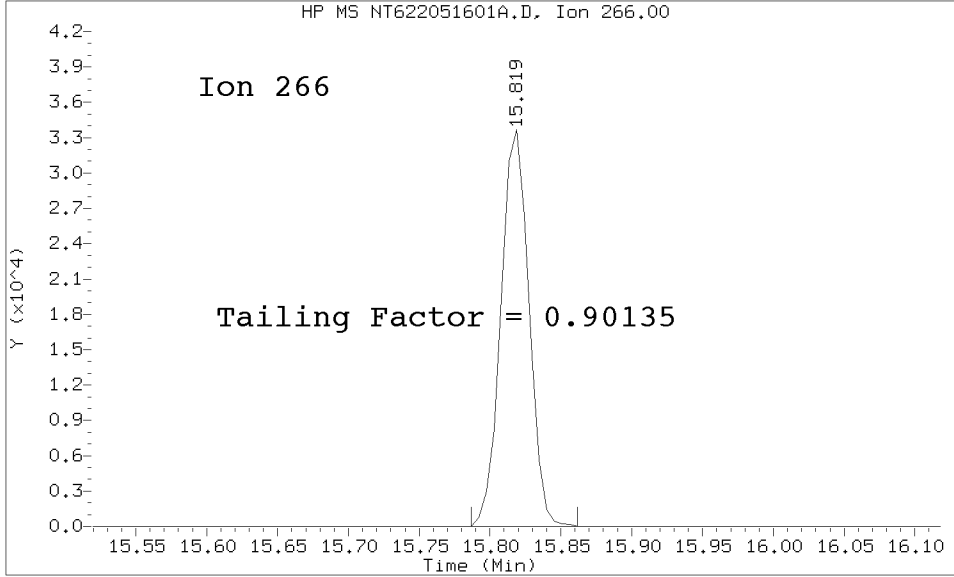
Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SKE0212-TUN1	NT622051601A.D	05/16/2022	17:11
Cal Standard	SKE0212-CAL4	NT622051601.D	05/16/2022	17:11
Initial Cal Blank	SKE0212-ICB1	NT622051602.D	05/16/2022	17:45
Cal Standard	SKE0212-CAL1	NT622051603.D	05/16/2022	18:19
Cal Standard	SKE0212-CAL2	NT622051604.D	05/16/2022	18:52
Cal Standard	SKE0212-CAL3	NT622051605.D	05/16/2022	19:25
Cal Standard	SKE0212-CAL5	NT622051606.D	05/16/2022	19:59
Cal Standard	SKE0212-CAL6	NT622051607.D	05/16/2022	20:33
Cal Standard	SKE0212-CAL7	NT622051608.D	05/16/2022	21:06
Secondary Cal Check	SKE0212-SCV1	NT622051702.D	05/17/2022	12:39

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20220516.b/tune.b/NT622051601A.D/NT622051601A.D
 Method Used: \20220516.b\tune.b\DFTPP.m Inst: nt6
 Injection Date: 16-MAY-2022 17:11 Operator: JZ
 Sample Info: SKE0212-TUN1 DFTPP220516
 Report Date: 05/16/2022 23:19



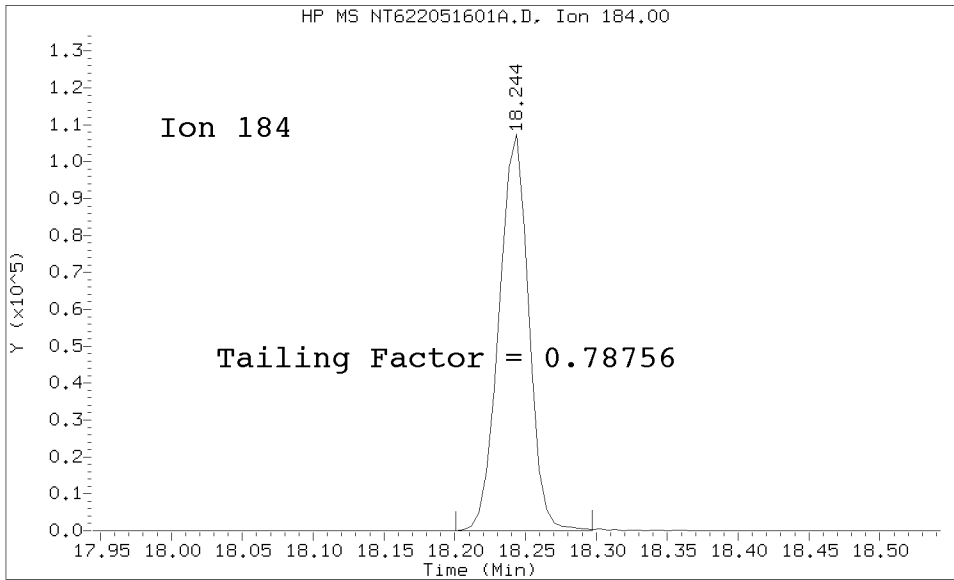
Datafile Analyzed: /20220516.b/tune.b/NT622051601A.D/NT622051601A.D
Method Used: \20220516.b\tune.b\DFTPP.m\sw846ddt.m Inst: nt6
Injection Date: 16-MAY-2022 17:11 Operator: JZ
Sample Info: IC25220516,
Report Date: 05/16/2022 23:19



Pentachlorophenol

=====
Exp. RT = 15.819
Found RT = 15.819

Tail Factor = 0.901 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 18.244
Found RT = 18.244

Tail Factor = 0.788 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.9013524	2.000	PASS
Benzidine	0.7875611	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	90187			N/A
4,4-DDE	0	0.0	20.0	PASS
4,4-DDD	1799	2.0	20.0	PASS
4,4-DDD + DDE	1799	2.0	20.0	PASS

Tuning Sample, /nt6.i/20220516.b/tune.b/NT622051601A.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	26.29
68	Less than 2.00% of mass 69	0.42 (1.40)
69	Mass 69 relative abundance	30.07
70	Less than 2.00% of mass 69	0.17 (0.56)
127	10.00 - 80.00% of mass 198	45.53
197	Less than 2.00% of mass 198	0.23
199	5.00 - 9.00% of mass 198	6.73
275	10.00 - 60.00% of mass 198	27.21
365	Greater than 1.00% of mass 198	3.35
441	0.01 - 24.00% of mass 442	17.96 (17.85)
442	50.00 - 200.00% of mass 198	100.63
443	15.00 - 24.00% of mass 442	20.30 (20.18)

Data File: NT622051601A.D
Spectrum: Avg. Scans 2634-2636 (16.66), Background Scan 2626
Location of Maximum: 442.00
Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	247	128.00	2783	192.00	910	265.00	1181
39.00	1148	129.00	12811	193.00	1013	266.00	103
44.00	113	130.00	1217	194.00	259	271.00	56
49.00	60	131.00	141	195.00	60	273.00	1126
50.00	4820	134.00	423	196.00	1996	274.00	3454
51.00	18744	135.00	1066	197.00	164	275.00	19400
52.00	963	136.00	434	198.00	71296	276.00	2590
56.00	615	137.00	545	199.00	4801	277.00	1618
57.00	1434	138.00	74	200.00	418	278.00	338
61.00	269	139.00	109	201.00	447	283.00	265
62.00	329	140.00	224	203.00	705	284.00	61
63.00	817	141.00	1665	204.00	3001	285.00	336
65.00	429	142.00	603	205.00	4932	293.00	492
68.00	300	143.00	365	206.00	21200	294.00	63
69.00	21440	144.00	64	207.00	2944	296.00	5501
70.00	121	146.00	339	208.00	832	297.00	738
73.00	233	147.00	958	209.00	250	302.00	60
74.00	2368	148.00	1991	210.00	335	303.00	817
75.00	3882	149.00	399	211.00	947	304.00	106
76.00	1273	150.00	60	212.00	60	314.00	249
77.00	26336	151.00	243	215.00	237	315.00	583
78.00	1453	152.00	69	216.00	505	316.00	315
79.00	1748	153.00	608	217.00	5521	321.00	208
80.00	1376	154.00	423	218.00	678	323.00	1660
81.00	1863	155.00	1011	220.00	53	324.00	286
82.00	476	156.00	1634	221.00	3542	327.00	297
83.00	459	157.00	171	222.00	464	328.00	249
85.00	367	158.00	385	223.00	1163	332.00	61
86.00	544	159.00	301	224.00	11755	333.00	114
87.00	337	160.00	544	225.00	3008	334.00	1287
91.00	467	161.00	858	226.00	133	335.00	338
92.00	578	162.00	167	227.00	5356	341.00	207
93.00	3454	165.00	721	228.00	716	346.00	311
94.00	137	166.00	605	229.00	1043	352.00	613
96.00	142	167.00	3611	231.00	383	353.00	383
98.00	2471	168.00	1545	232.00	53	354.00	584
99.00	1824	169.00	309	233.00	57	365.00	2389
100.00	134	170.00	113	234.00	283	366.00	303
101.00	1189	171.00	133	235.00	348	371.00	198
103.00	358	172.00	379	236.00	298	372.00	1084
104.00	708	173.00	399	237.00	256	373.00	237
105.00	660	174.00	892	239.00	225	383.00	257
107.00	9219	175.00	1674	241.00	284	390.00	121
108.00	1373	176.00	454	242.00	545	401.00	53
109.00	66	177.00	660	243.00	184	402.00	400
110.00	16178	178.00	278	244.00	8387	403.00	560
111.00	2434	179.00	2874	245.00	1242	404.00	274
112.00	321	180.00	1899	246.00	1826	421.00	582
113.00	57	181.00	986	247.00	338	422.00	652

116.00	566	182.00	137	248.00	54	423.00	3923
117.00	8142	184.00	166	249.00	373	424.00	785
118.00	581	185.00	1494	250.00	52	441.00	12807
120.00	71	186.00	11703	253.00	137	442.00	71744
122.00	639	187.00	3421	255.00	43824	443.00	14476
123.00	960	188.00	304	256.00	6381	444.00	1454
124.00	428	189.00	711	257.00	309		
125.00	439	190.00	69	258.00	2741		
127.00	32464	191.00	289	259.00	449		



INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22G0121
Client:	GeoEngineers	Project:	RG Haley Site-Bellingham
Calibration:	FE00035	Instrument:	NT6
Calibration Date:	05/16/2022	Column (1):	ZB-5MSi

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Naphthalene	1	0.9884241	5	0.8467835	10	0.858988	25	0.8448741	40	0.7796458	60	0.791783
2-Methylnaphthalene	1	0.5481712	5	0.4463434	10	0.4806072	25	0.4982042	40	0.4543875	60	0.4741347
Acenaphthene	1	1.047849	5	0.9572775	10	0.9313282	25	0.952653	40	0.8682203	60	0.8822349
Pentachlorophenol	3	0.1214848	5	0.1390254	10	0.1417325	25	0.1441956	40	0.1258879	60	0.1386707
Phenanthrene	1	0.9795781	5	0.8434003	10	0.8374716	25	0.8333874	40	0.7485867	60	0.7742066
Fluoranthene	1	1.058248	5	0.9440052	10	0.946032	25	0.9490149	40	0.8530882	60	0.8840278
Benzo(a)anthracene	1	1.260536	5	1.094121	10	1.107009	25	1.098514	40	1.027266	60	1.089592
Chrysene	1	1.189056	5	1.004682	10	1.016126	25	1.019785	40	0.941892	60	0.9889108
Benzo(b)fluoranthene	1	1.114223	5	0.9420939	10	0.964634	25	1.019957	40	0.9005511	60	0.9991598
Benzo(k)fluoranthene	1	1.114039	5	1.043533	10	0.9905941	25	0.9898644	40	0.9685934	60	0.9106107
Benzo(a)pyrene	1	1.01981	5	0.9117855	10	0.8967799	25	0.9506053	40	0.8827943	60	0.9129024
Indeno(1,2,3-cd)pyrene	1	1.413706	5	1.315059	10	1.320598	25	1.331341	40	1.304032	60	1.402984
Dibenzo(a,h)anthracene	1	1.186671	5	1.096516	10	1.108579	25	1.127025	40	1.095014	60	1.164765
1-Methylnaphthalene	1	0.5230963	5	0.4221255	10	0.4477732	25	0.4628472	40	0.4402399	60	0.4439992
2-Fluorophenol	1.5	1.213509	7.5	0.9503859	15	1.005296	37.5	1.117499	60	1.159128	90	1.066359
Phenol-d5	1.5	1.411068	7.5	1.10454	15	1.149212	37.5	1.277716	60	1.320734	90	1.205646
2-Chlorophenol-d4	1.5	1.301012	7.5	1.000427	15	1.058881	37.5	1.162941	60	1.181439	90	1.069519
1,2-Dichlorobenzene-d4	1	0.9098771	5	0.7067172	10	0.7599778	25	0.836351	40	0.8392676	60	0.7784559
Nitrobenzene-d5	1	0.35667	5	0.2711163	10	0.2980015	25	0.3103819	40	0.3250327	60	0.2954339
2-Fluorobiphenyl	1	1.495388	5	1.13662	10	1.160101	25	1.241937	40	1.263513	60	1.118612
2,4,6-Tribromophenol			7.5	0.1608856	15	0.1580351	37.5	0.1780528	60	0.187805	90	0.1665957
p-Terphenyl-d14			5	0.8921312	10	0.9339779	25	0.9777315	40	1.060762	60	0.9447156



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22G0121
Client:	GeoEngineers	Project:	RG Haley Site-Bellingham
Calibration:	FE00035	Instrument:	NT6
Calibration Date:	05/16/2022	Column (1):	ZB-5MSi

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Naphthalene	0.8406287	8.8			RSD (15)	
2-Methylnaphthalene	0.4800184	7.3			RSD (15)	
Acenaphthene	0.9311408	6.8			RSD (15)	
Pentachlorophenol	0.1365836	6.7			RSD (15)	
Phenanthrene	0.8243973	9.6			RSD (15)	
Fluoranthene	0.9317361	7.2			RSD (15)	
Benzo(a)anthracene	1.10892	6.5			RSD (15)	
Chrysene	1.018715	7.8			RSD (15)	
Benzo(b)fluoranthene	0.9873224	6.9			RSD (15)	
Benzo(k)fluoranthene	0.989289	7.4			RSD (15)	
Benzo(a)pyrene	0.9265235	5.0			RSD (15)	
Indeno(1,2,3-cd)pyrene	1.35428	3.4			RSD (15)	
Dibenzo(a,h)anthracene	1.132875	3.1			RSD (15)	
1-Methylnaphthalene	0.4530575	7.4			RSD (15)	
2-Fluorophenol	1.081001	8.3			RSD (15)	
Phenol-d5	1.236588	8.6			RSD (15)	
2-Chlorophenol-d4	1.11768	9.2			RSD (15)	
1,2-Dichlorobenzene-d4	0.7998831	8.3			RSD (15)	
Nitrobenzene-d5	0.3071168	8.9			RSD (15)	
2-Fluorobiphenyl	1.216675	11.3			RSD (15)	
2,4,6-Tribromophenol	0.1701749	6.5			RSD (15)	
p-Terphenyl-d14	0.950795	6.6			RSD (15)	



ANALYSIS SEQUENCE

SKE0212

Instrument: NT6 Element Column ID: K001588
Calibration ID: FE00035 Tune File: 220209.U
EM Voltage: 1635

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SKE0212-TUN1	MS Tune	QC		1	K004655		
SKE0212-ICB1	Initial Cal Blank	QC		2		J012358	
SKE0212-CAL1	8270 ICal	QC		3	K004652	J012358	
SKE0212-CAL2	8270 ICal	QC		4	K004653	J012358	
SKE0212-CAL3	8270 ICal	QC		5	K004654	J012358	
SKE0212-CAL4	8270 ICal	QC		6	K004655	J012358	
SKE0212-CAL5	8270 ICal	QC		7	K004656	J012358	
SKE0212-CAL6	8270 ICal	QC		8	K004657	J012358	
SKE0212-CAL7	8270 ICal	QC		9	K004658	J012358	
SKE0212-SCV1	Secondary Cal Check	QC		10	K004689	J012358	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt6.i\20220516.b

Time	Filename	LabID	ClientId	DF										
1	1711	NT622051601.D	SKE0212-CAL4	1	8.71	71723 10.75	255203 13.62	144799 16.02	257295 20.36	195882 21.43	272032 22.55	222542		
2	1711	NT622051601A.D	SKE0212-TUN1	1	NO ISTDs FOUND									
3	1745	NT622051602.D	SKE0212-ICB1	1	8.71	75058 10.75	256178 13.62	146782 16.02	256993 20.36	199514 21.43	262864 22.55	212958		
4	1819	NT622051603.D	SKE0212-CAL1	1	8.71	78626 10.75	270390 13.62	161550 16.02	279651 20.35	205373 21.43	268090 22.55	216707		
5	1852	NT622051604.D	SKE0212-CAL2	1	8.71	82013 10.75	289042 13.62	163263 16.02	285473 20.36	208902 21.43	281399 22.55	230563		
6	1925	NT622051605.D	SKE0212-CAL3	1	8.71	79426 10.75	268502 13.63	155071 16.02	272217 20.36	205628 21.43	282768 22.55	236979		
7	1959	NT622051606.D	SKE0212-CAL5	1	8.71	73865 10.76	259337 13.63	150319 16.02	270288 20.36	188950 21.43	264477 22.55	217916		
8	2033	NT622051607.D	SKE0212-CAL6	1	8.71	74390 10.76	256785 13.63	151055 16.02	269444 20.37	196077 21.43	278736 22.56	234465		
9	2106	NT622051608.D	SKE0212-CAL7	1	8.72	73198 10.76	251973 13.63	146292 16.02	264427 20.37	205536 21.44	296289 22.56	253056		
10	1239	NT622051702.D	SKE0212-SCV1	1	8.70	78743 10.75	265327 13.63	154616 16.02	277010 20.36	212766 21.43	294742 22.55	235601		

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt6.i\20220516.b

ARI Job No.: SKE0 Method: SW84620220516.m Instrument: nt6.i Date: 16-MAY-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1711	NT622051601.D	SKE0212-CAL4		1	NO MANUAL INTEGRATION
1745	NT622051602.D	SKE0212-ICB1		1	NO MANUAL INTEGRATION
1819	NT622051603.D	SKE0212-CAL1		1	3-Nitroaniline, 4-Chlorophenyl-phenylether, 1,2-Dichlorobenzene-d4,
1852	NT622051604.D	SKE0212-CAL2		1	Total Benzofluoranthenes,
1925	NT622051605.D	SKE0212-CAL3		1	NO MANUAL INTEGRATION
1959	NT622051606.D	SKE0212-CAL5		1	NO MANUAL INTEGRATION
2033	NT622051607.D	SKE0212-CAL6		1	NO MANUAL INTEGRATION
2106	NT622051608.D	SKE0212-CAL7		1	NO MANUAL INTEGRATION
1239	NT622051702.D	SKE0212-SCV1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 17-May-2022 14:05

NT622051601.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051601A.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051602.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051603.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051604.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051605.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051606.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051607.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051608.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051702.D	Data Locked	jianqing, 17-May-2022 14:05

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAY-2022 17:11
 End Cal Date : 16-MAY-2022 21:06
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Last Edit : 16-May-2022 22:28 Jianqing

Calibration File Names:

- Level 1: \\target\share\chem3\nt6.i\20220516.b\NT622051603.D
- Level 2: \\target\share\chem3\nt6.i\20220516.b\NT622051604.D
- Level 3: \\target\share\chem3\nt6.i\20220516.b\NT622051605.D
- Level 4: \\target\share\chem3\nt6.i\20220516.b\NT622051601.D
- Level 5: \\target\share\chem3\nt6.i\20220516.b\NT622051606.D
- Level 6: \\target\share\chem3\nt6.i\20220516.b\NT622051607.D
- Level 7: \\target\share\chem3\nt6.i\20220516.b\NT622051608.D

Compound	1.0000	5.0000	10.0000	25.0000	40.0000	60.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
168 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
133 Butylatedhydroxytoluene	1.28839 0.99667	1.00187	1.06168	1.11479	0.96688	0.99996	AVRG		1.06146		10.52035
144 alpha-Terpineol	0.19017 0.16308	0.17474	0.17390	0.17838	0.16416	0.16590	AVRG		0.17290		5.56101

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAY-2022 17:11
 End Cal Date : 16-MAY-2022 21:06
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Last Edit : 16-May-2022 22:28 Jianqing

Compound	1.0000	5.0000	10.0000	25.0000	40.0000	60.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	80.0000										
	Level 7										
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
120 2,3,4,6-Tetrachlorophenol	0.29514	0.31201	0.30236	0.31738	0.28036	0.30913					
	0.31212						AVRG		0.30407		4.19334
118 Triphenyl Phosphate	0.23567	0.17220	0.19399	0.19894	0.18651	0.19665					
	0.19981						AVRG		0.19768		9.77015
117 Butyl Diphenyl Phosphate	0.16750	0.14765	0.15877	0.17379	0.15863	0.16424					
	0.16223						AVRG		0.16183		5.05694
116 Dibutyl Phenyl Phosphate	0.50327	0.40075	0.42205	0.45021	0.38846	0.41089					
	0.42310						AVRG		0.42839		8.94768
115 Tributyl Phosphate	0.70838	0.54541	0.58213	0.59625	0.51741	0.53859					
	0.53246						AVRG		0.57437		11.37656
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAY-2022 17:11
 End Cal Date : 16-MAY-2022 21:06
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Last Edit : 16-May-2022 22:28 Jianqing

Compound	1.0000	5.0000	10.0000	25.0000	40.0000	60.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	80.0000										
	Level 7										
112 Biphenyl	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000
111 Azobenzene (1,2-DP-Hydrazine)	0.60919	0.53358	0.52413	0.52446	0.46229	0.46327					
	0.44744						AVRG		0.50919		11.10127
105 1-methylnaphthalene	0.52310	0.42213	0.44777	0.46285	0.44024	0.44400					
	0.43132						AVRG		0.45306		7.37843
151 1,2,4,5-Tetrachlorobenzene	0.60031	0.56819	0.54397	0.55984	0.51870	0.52278					
	0.52867						AVRG		0.54892		5.34365
3 Phenol	1.65925	1.44650	1.41077	1.47020	1.29347	1.37745					
	1.40329						AVRG		1.43728		7.85912
4 Bis(2-Chloroethyl)ether	0.88342	0.86523	0.86392	0.91435	0.83230	0.86042					
	0.85157						AVRG		0.86732		2.98046
6 2-Chlorophenol	1.32017	1.22371	1.16070	1.22026	1.04462	1.11295					
	1.13228						AVRG		1.17353		7.65029

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAY-2022 17:11
 End Cal Date : 16-MAY-2022 21:06
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Last Edit : 16-May-2022 22:28 Jianqing

Compound	1.0000	5.0000	10.0000	25.0000	40.0000	60.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	80.0000										
	Level 7										
7 1,3-Dichlorobenzene	1.27337 1.19778	1.24717	1.21333	1.26036	1.15233	1.19050					
							AVRG		1.21926		3.54346
9 1,4-Dichlorobenzene	1.24514 1.15054	1.20596	1.21101	1.22520	1.12878	1.15894					
							AVRG		1.18937		3.63955
11 Benzyl alcohol	0.67102 0.66339	0.63800	0.65183	0.72545	0.66903	0.68027					
							AVRG		0.67128		4.11057
12 1,2-Dichlorobenzene	1.18027 1.08806	1.15357	1.14242	1.17587	1.06830	1.09680					
							AVRG		1.12933		3.96109
13 2-Methylphenol	1.09099 0.94823	1.00160	0.96538	1.00820	0.87592	0.92396					
							AVRG		0.97347		7.07716
14 2,2'-oxybis(1-Chloropropane)	0.71071 0.64794	0.68418	0.64314	0.69516	0.63169	0.64826					
							AVRG		0.66587		4.55548
15 4-Methylphenol	1.11999 1.01172	1.08953	1.02050	1.08451	0.94524	0.99696					
							AVRG		1.03835		5.93988

ARI Labs, Inc.

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 Last Edit : 16-May-2022 22:28 Jianqing

Compound	1.0000	5.0000	10.0000	25.0000	40.0000	60.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	80.0000										
	Level 7										
16 N-Nitroso-di-n-propylamine	0.72139 0.61885	0.66711	0.62191	0.67429	0.62224	0.62585					
							AVRG		0.65024		5.98668
17 Hexachloroethane	0.49983 0.46054	0.48514	0.49729	0.50039	0.45721	0.45713					
							AVRG		0.47965		4.30203
19 Nitrobenzene	0.33241 0.27621	0.29199	0.29241	0.29630	0.27303	0.27920					
							AVRG		0.29165		6.89104
20 Isophorone	0.38855 0.36229	0.37172	0.36856	0.38444	0.35236	0.36026					
							AVRG		0.36974		3.53130
21 2-Nitrophenol	0.18055 0.18396	0.18323	0.18514	0.18569	0.16575	0.17888					
							AVRG		0.18046		3.83874
22 2,4-Dimethylphenol	0.36643 0.32815	0.35938	0.34517	0.34870	0.30168	0.32546					
							AVRG		0.33928		6.58270
23 Bis(2-Chloroethoxy)methane	0.30230 0.25329	0.25596	0.26436	0.26624	0.25053	0.25475					
							AVRG		0.26392		6.77551

ARI Labs, Inc.

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 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Last Edit : 16-May-2022 22:28 Jianqing

Compound	1.0000	5.0000	10.0000	25.0000	40.0000	60.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	80.0000										
	Level 7										
24 Benzoic acid	0.16256 0.25615	0.19967	0.21710	0.23143	0.21298	0.23583					
							AVRG		0.21653		13.82109
25 2,4-Dichlorophenol	0.29631 0.27254	0.28437	0.27821	0.28589	0.24920	0.26864					
							AVRG		0.27645		5.46276
26 1,2,4-Trichlorobenzene	0.35134 0.30379	0.31694	0.31795	0.31699	0.29196	0.30603					
							AVRG		0.31500		5.90256
28 Naphthalene	0.98842 0.77390	0.84678	0.85899	0.84487	0.77965	0.79178					
							AVRG		0.84063		8.79458
29 4-Chloroaniline	0.38751 0.33362	0.32907	0.33894	0.35559	0.33258	0.34116					
							AVRG		0.34550		5.91621
30 Hexachlorobutadiene	0.21939 0.20345	0.19658	0.20522	0.20744	0.19013	0.20045					
							AVRG		0.20324		4.52011
31 4-Chloro-3-methylphenol	0.31177 0.27529	0.28270	0.27290	0.28330	0.25317	0.26992					
							AVRG		0.27844		6.39878

ARI Labs, Inc.

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 Last Edit : 16-May-2022 22:28 Jianqing

Compound	1.0000	5.0000	10.0000	25.0000	40.0000	60.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	80.0000										
	Level 7										
32 2-Methylnaphthalene	0.54817 0.45828	0.44634	0.48061	0.49820	0.45439	0.47413	AVRG		0.48002		7.25358
33 Hexachlorocyclopentadiene	0.31099 0.37944	0.35244	0.35205	0.39006	0.37025	0.37702	AVRG		0.36175		7.29465
34 2,4,6-Trichlorophenol	0.34788 0.38836	0.38132	0.38301	0.39673	0.34597	0.37109	AVRG		0.37348		5.27870
35 2,4,5-Trichlorophenol	0.41362 0.39315	0.41832	0.39498	0.41391	0.36727	0.38275	AVRG		0.39771		4.72555
37 2-Chloronaphthalene	1.09093 0.91212	0.99329	0.96170	0.99454	0.90816	0.91956	AVRG		0.96861		6.73610
38 2-Nitroaniline	0.27855 0.23657	0.23408	0.23271	0.25690	0.23536	0.23984	AVRG		0.24486		6.93138
39 Dimethylphthalate	1.22253 0.99532	1.10259	1.03919	1.08394	0.99248	0.98393	AVRG		1.06000		8.05716

ARI Labs, Inc.

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Compound	1.0000	5.0000	10.0000	25.0000	40.0000	60.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	80.0000										
	Level 7										
40 Acenaphthylene	1.81034 1.42941	1.62944	1.59581	1.61010	1.46321	1.45519					
							AVRG		1.57050		8.53953
41 2,6-Dinitrotoluene	0.23114 0.24470	0.24706	0.23861	0.25191	0.23697	0.24105					
							AVRG		0.24163		2.85698
43 3-Nitroaniline	0.25020 0.23202	0.22773	0.23081	0.24129	0.23263	0.23706					
							AVRG		0.23596		3.25235
44 Acenaphthene	1.04785 0.87842	0.95728	0.93133	0.95265	0.86822	0.88223					
							AVRG		0.93114		6.77763
45 2,4-Dinitrophenol	+++++ 219903	7664	19575	55288	90380	155158					
							QUAD	0.000e+000	7.28238	-1.31787	0.99903
46 Dibenzofuran	1.51817 1.23794	1.33243	1.35653	1.42167	1.27311	1.27980					
							AVRG		1.34566		7.24539
47 4-Nitrophenol	0.16082 0.15927	0.18495	0.18028	0.18669	0.16577	0.15602					
							AVRG		0.17054		7.64066

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Compound	1.0000	5.0000	10.0000	25.0000	40.0000	60.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	80.0000										
	Level 7										
48 2,4-Dinitrotoluene	0.28945 0.31183	0.32255	0.31168	0.32809	0.30667	0.31269					
							AVRG		0.31185		3.94408
49 Fluorene	1.21894 1.02877	1.07946	1.07787	1.09643	1.01144	1.02225					
							AVRG		1.07645		6.58547
50 Diethylphthalate	1.15964 0.97124	1.04790	1.01735	1.04729	0.96055	0.96325					
							AVRG		1.02389		6.91263
51 4-Chlorophenyl-phenylether	0.66989 0.59713	0.60489	0.59622	0.61211	0.56376	0.58448					
							AVRG		0.60407		5.45526
52 4-Nitroaniline	0.23609 0.20699	0.20634	0.21815	0.21249	0.20419	0.20950					
							AVRG		0.21339		5.16543
53 4,6-Dinitro-2-methylphenol	0.08085 0.12320	0.10685	0.11190	0.12096	0.10600	0.11681					
							AVRG		0.10951		13.01121
54 N-Nitrosodiphenylamine	0.51121 0.40290	0.45530	0.42743	0.43844	0.39992	0.39938					
							AVRG		0.43351		9.32436

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Compound	1.0000	5.0000	10.0000	25.0000	40.0000	60.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	80.0000										
	Level 7										
56 4-Bromophenyl-phenylether	0.20347 0.18556	0.18937	0.18506	0.19283	0.17640	0.18239					
							AVRG		0.18787		4.58377
57 Hexachlorobenzene	0.23343 0.19645	0.20497	0.20225	0.20855	0.18807	0.19749					
							AVRG		0.20446		7.03870
58 Pentachlorophenol	0.12148 0.14509	0.13903	0.14173	0.14420	0.12589	0.13867					
							AVRG		0.13658		6.74662
60 Phenanthrene	0.97958 0.75415	0.84340	0.83747	0.83339	0.74859	0.77421					
							AVRG		0.82440		9.64003
61 Anthracene	0.95541 0.75220	0.85070	0.84571	0.83772	0.76186	0.76882					
							AVRG		0.82463		8.67406
62 Carbazole	0.82810 0.67613	0.73276	0.73056	0.69693	0.62738	0.67003					
							AVRG		0.70884		9.03729
63 Di-n-butylphthalate	1.03314 0.80669	0.91839	0.91708	0.90424	0.81289	0.82104					
							AVRG		0.88764		9.17958

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 Last Edit : 16-May-2022 22:28 Jianqing

Compound	1.0000	5.0000	10.0000	25.0000	40.0000	60.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	80.0000										
	Level 7										
64 Fluoranthene	1.05825 0.88774	0.94401	0.94603	0.94901	0.85309	0.88403					
							AVRG		0.93174		7.20717
65 Pyrene	1.44147 1.13042	1.30358	1.26046	1.25478	1.19459	1.20445					
							AVRG		1.25568		7.88934
67 Butylbenzylphthalate	0.50659 0.47619	0.48099	0.49486	0.50776	0.48645	0.48833					
							AVRG		0.49160		2.46879
68 Benzo(a)anthracene	1.26054 1.08540	1.09412	1.10701	1.09851	1.02727	1.08959					
							AVRG		1.10892		6.47278
70 3,3'-Dichlorobenzidine	0.39752 0.34180	0.34311	0.34957	0.30034	0.27480	0.31786					
							AVRG		0.33214		11.85040
71 Chrysene	1.18906 0.97055	1.00468	1.01613	1.01979	0.94189	0.98891					
							AVRG		1.01871		7.84595
72 bis(2-Ethylhexyl)phthalate	0.50998 0.41914	0.47146	0.47226	0.48060	0.44234	0.44305					
							AVRG		0.46269		6.49663

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Compound	1.0000	5.0000	10.0000	25.0000	40.0000	60.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	80.0000										
	Level 7										
73 Di-n-octylphthalate	1.00369 0.74278	0.86798	0.83922	0.83697	0.77590	0.77638					
							AVRG		0.83470		10.37528
74 Benzo(b)fluoranthene	1.11422 0.97064	0.94209	0.96463	1.01996	0.90055	0.99916					
							AVRG		0.98732		6.87899
75 Benzo(k)fluoranthene	1.11404 0.90779	1.04353	0.99059	0.98986	0.96859	0.91061					
							AVRG		0.98929		7.35521
76 Benzo(a)pyrene	1.01981 0.91099	0.91179	0.89678	0.95061	0.88279	0.91290					
							AVRG		0.92652		4.97015
78 Indeno(1,2,3-cd)pyrene	1.41371 1.39224	1.31506	1.32060	1.33134	1.30403	1.40298					
							AVRG		1.35428		3.44608
79 Dibenzo(a,h)anthracene	1.18667 1.15156	1.09652	1.10858	1.12703	1.09501	1.16477					
							AVRG		1.13288		3.14985
80 Benzo(g,h,i)perylene	1.22027 1.16541	1.14950	1.13512	1.14847	1.12437	1.18780					
							AVRG		1.16156		2.84419

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Compound	1.0000	5.0000	10.0000	25.0000	40.0000	60.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	80.0000										
	Level 7										
90 N-Nitrosodimethylamine	0.48050 0.52596	0.49460	0.50117	0.51467	0.49939	0.51645					
							AVRG		0.50468		3.04585
91 Aniline	1.63813 1.45585	1.35520	1.42331	1.56094	1.42535	1.48731					
							AVRG		1.47801		6.41518
93 Benzidine	0.34260 0.34046	0.33737	0.31137	0.32103	0.34717	0.36034					
							AVRG		0.33719		4.84779
103 Pyridine	0.93709 0.98342	0.91176	0.91136	0.99746	0.91488	0.99337					
							AVRG		0.94991		4.21222
187 Total Benzofluoranthenes	1.05659 0.88853	0.94164	0.93239	0.95985	0.89003	0.90784					
							AVRG		0.93955		6.17981
\$ 1 2-Fluorophenol	1.21351 1.05483	0.95039	1.00530	1.11750	1.15913	1.06636					
							AVRG		1.08100		8.33288
\$ 2 Phenol-d5	1.41107 1.18720	1.10454	1.14921	1.27772	1.32073	1.20565					
							AVRG		1.23659		8.58895

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Compound	1.0000	5.0000	10.0000	25.0000	40.0000	60.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	80.0000										
	Level 7										
\$ 5 2-Chlorophenol-d4	1.30101	1.00043	1.05888	1.16294	1.18144	1.06952					
	1.04954						AVRG		1.11768		9.23274
\$ 10 1,2-Dichlorobenzene-d4	0.90988	0.70672	0.75998	0.83635	0.83927	0.77846					
	0.76854						AVRG		0.79988		8.33880
\$ 18 Nitrobenzene-d5	0.35667	0.27112	0.29800	0.31038	0.32503	0.29543					
	0.29318						AVRG		0.30712		8.91417
\$ 36 2-Fluorobiphenyl	1.49539	1.13662	1.16010	1.24194	1.26351	1.11861					
	1.10055						AVRG		1.21667		11.29062
\$ 55 2,4,6-Tribromophenol	+++++	0.16089	0.15804	0.17805	0.18781	0.16660					
	0.16968						AVRG		0.17017		6.54151
\$ 66 Terphenyl-d14	+++++	0.89213	0.93398	0.97773	1.06076	0.94472					
	0.89545						AVRG		0.95079		6.59214

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
Batch File: \\target\share\chem3\nt6.i\20220516.b
Inst ID: nt6.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: NT622051601 NT622051603 NT622051604 NT622051605 NT622051606 NT622051607 NT622051608
INJ. DATE: 16-MAY-2022 16-MAY-2022 16-MAY-2022 16-MAY-2022 16-MAY-2022 16-MAY-2022 16-MAY-2022
INJ. TIME: 17:11 18:19 18:52 19:25 19:59 20:33 21:06

Table with columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include various chemical compounds like 186 Carbaryl, 168 Pentachlorobenzene, etc.

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m

Batch File: \\target\share\chem3\nt6.i\20220516.b

Inst ID: nt6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
3 Phenol	8.251	8.236	8.239	8.242	8.255	8.267	8.273	8.251	5.251-11.251	8.252	0.014
4 Bis(2-Chloroethyl)ethe	8.368	8.359	8.361	8.365	8.373	8.379	8.380	8.368	5.368-11.368	8.369	0.008
\$ 5 2-Chlorophenol-d4	8.405	8.401	8.399	8.402	8.410	8.411	8.417	8.405	5.405-11.405	8.407	0.007
6 2-Chlorophenol	8.427	8.423	8.426	8.424	8.432	8.437	8.444	8.427	5.427-11.427	8.430	0.008
7 1,3-Dichlorobenzene	8.651	8.647	8.650	8.648	8.651	8.656	8.658	8.651	5.651-11.651	8.652	0.004
* 8 1,4-Dichlorobenzene-d4	8.710	8.706	8.709	8.707	8.709	8.710	8.717	8.710	5.710-11.710	8.710	0.003
9 1,4-Dichlorobenzene	8.737	8.733	8.730	8.733	8.736	8.737	8.743	8.737	5.737-11.737	8.736	0.004
\$ 10 1,2-Dichlorobenzene-d4	9.009	9.005	9.008	9.006	9.009	9.014	9.016	9.009	6.009-12.009	9.009	0.004
11 Benzyl alcohol	8.966	8.962	8.960	8.963	8.971	8.982	8.989	8.966	5.966-11.966	8.971	0.011
12 1,2-Dichlorobenzene	9.030	9.026	9.029	9.027	9.030	9.036	9.037	9.030	6.030-12.030	9.031	0.004
13 2-Methylphenol	9.175	9.171	9.173	9.171	9.179	9.185	9.187	9.175	6.175-12.175	9.177	0.007
14 2,2'-oxybis(1-Chloropr	9.223	9.219	9.216	9.219	9.222	9.228	9.229	9.223	6.223-12.223	9.222	0.005
15 4-Methylphenol	9.404	9.395	9.398	9.396	9.409	9.420	9.427	9.404	6.404-12.404	9.407	0.013
16 N-Nitroso-di-n-propyla	9.442	9.432	9.435	9.433	9.452	9.458	9.470	9.442	6.442-12.442	9.446	0.014
17 Hexachloroethane	9.516	9.518	9.515	9.513	9.516	9.516	9.518	9.516	6.516-12.516	9.516	0.002
\$ 18 Nitrobenzene-d5	9.634	9.630	9.627	9.631	9.639	9.645	9.646	9.634	6.634-12.634	9.636	0.007
19 Nitrobenzene	9.661	9.657	9.654	9.657	9.666	9.671	9.678	9.661	6.661-12.661	9.663	0.009
20 Isophorone	10.034	10.025	10.028	10.031	10.039	10.050	10.057	10.034	7.034-13.034	10.038	0.012
21 2-Nitrophenol	10.173	10.169	10.172	10.170	10.173	10.179	10.185	10.173	7.173-13.173	10.175	0.006
22 2,4-Dimethylphenol	10.248	10.239	10.242	10.245	10.248	10.259	10.260	10.248	7.248-13.248	10.249	0.008
23 Bis(2-Chloroethoxy)met	10.408	10.399	10.402	10.405	10.408	10.414	10.420	10.408	7.408-13.408	10.408	0.007
24 Benzoic acid	10.462	10.335	10.370	10.400	10.499	10.553	10.581	10.462	7.462-13.462	10.457	0.093

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m

Batch File: \\target\share\chem3\nt6.i\20220516.b

Inst ID: nt6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
25 2,4-Dichlorophenol	10.542	10.538	10.535	10.539	10.547	10.553	10.559	10.542	7.542-13.542	10.545	0.009
26 1,2,4-Trichlorobenzene	10.686	10.682	10.685	10.683	10.691	10.691	10.693	10.686	7.686-13.686	10.687	0.004
* 27 Naphthalene-d8	10.750	10.746	10.749	10.747	10.755	10.756	10.757	10.750	7.750-13.750	10.751	0.004
28 Naphthalene	10.782	10.778	10.781	10.779	10.787	10.788	10.794	10.782	7.782-13.782	10.784	0.006
29 4-Chloroaniline	10.910	10.901	10.904	10.907	10.910	10.916	10.922	10.910	7.910-13.910	10.910	0.007
30 Hexachlorobutadiene	11.081	11.083	11.080	11.084	11.086	11.087	11.088	11.081	8.081-14.081	11.084	0.003
31 4-Chloro-3-methylpheno	11.690	11.686	11.684	11.687	11.690	11.696	11.702	11.690	8.690-14.690	11.691	0.006
32 2-Methylnaphthalene	11.898	11.894	11.897	11.895	11.903	11.904	11.911	11.898	8.898-14.898	11.900	0.006
33 Hexachlorocyclopentadi	12.272	12.274	12.271	12.275	12.277	12.278	12.279	12.272	9.272-15.272	12.275	0.003
34 2,4,6-Trichlorophenol	12.406	12.397	12.399	12.403	12.405	12.411	12.413	12.406	9.406-15.406	12.405	0.006
35 2,4,5-Trichlorophenol	12.459	12.455	12.453	12.456	12.459	12.465	12.466	12.459	9.459-15.459	12.459	0.005
§ 36 2-Fluorobiphenyl	12.534	12.530	12.533	12.531	12.539	12.539	12.546	12.534	9.534-15.534	12.536	0.006
37 2-Chloronaphthalene	12.689	12.680	12.682	12.686	12.689	12.694	12.696	12.689	9.689-15.689	12.688	0.006
38 2-Nitroaniline	12.913	12.904	12.907	12.905	12.918	12.919	12.925	12.913	9.913-15.913	12.913	0.008
39 Dimethylphthalate	13.271	13.262	13.265	13.268	13.276	13.282	13.283	13.271	10.271-16.271	13.272	0.008
40 Acenaphthylene	13.373	13.369	13.371	13.370	13.378	13.378	13.385	13.373	10.373-16.373	13.375	0.006
41 2,6-Dinitrotoluene	13.373	13.369	13.371	13.370	13.378	13.383	13.390	13.373	10.373-16.373	13.376	0.008
* 42 Acenaphthene-d10	13.624	13.625	13.622	13.626	13.629	13.629	13.630	13.624	10.624-16.624	13.626	0.003
43 3-Nitroaniline	13.592	13.582	13.580	13.583	13.597	13.602	13.609	13.592	10.592-16.592	13.592	0.011
44 Acenaphthene	13.677	13.673	13.670	13.674	13.677	13.682	13.689	13.677	10.677-16.677	13.678	0.006
45 2,4-Dinitrophenol	13.757	13.748	13.751	13.749	13.762	13.773	13.780	13.757	10.757-16.757	13.760	0.013
46 Dibenzofuran	13.939	13.929	13.932	13.930	13.938	13.944	13.951	13.939	10.939-16.939	13.938	0.008
47 4-Nitrophenol	13.853	13.844	13.847	13.850	13.858	13.869	13.876	13.853	10.853-16.853	13.857	0.012
48 2,4-Dinitrotoluene	14.008	13.999	13.996	14.000	14.013	14.019	14.026	14.008	11.008-17.008	14.009	0.011

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m

Batch File: \\target\share\chem3\nt6.i\20220516.b

Inst ID: nt6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
49 Fluorene	14.500	14.496	14.493	14.496	14.499	14.505	14.512	14.500	11.500-17.500	14.500	0.006
50 Diethylphthalate	14.425	14.415	14.413	14.422	14.430	14.436	14.442	14.425	11.425-17.425	14.426	0.011
51 4-Chlorophenyl-phenyle	14.505	14.501	14.498	14.502	14.505	14.510	14.512	14.505	11.505-17.505	14.505	0.005
52 4-Nitroaniline	14.596	14.576	14.584	14.587	14.606	14.617	14.629	14.596	11.596-17.596	14.599	0.019
53 4,6-Dinitro-2-methylph	14.665	14.650	14.659	14.662	14.675	14.681	14.693	14.665	11.665-17.665	14.669	0.015
54 N-Nitrosodiphenylamine	14.713	14.704	14.701	14.705	14.713	14.724	14.731	14.713	11.713-17.713	14.713	0.011
55 2,4,6-Tribromophenol	14.922	14.912	14.915	14.918	14.926	14.932	14.934	14.922	11.922-17.922	14.923	0.008
56 4-Bromophenyl-phenylet	15.295	15.291	15.289	15.292	15.295	15.301	15.302	15.295	12.295-18.295	15.295	0.005
57 Hexachlorobenzene	15.530	15.526	15.524	15.527	15.530	15.536	15.537	15.530	12.530-18.530	15.530	0.005
58 Pentachlorophenol	15.819	15.809	15.812	15.816	15.824	15.824	15.831	15.819	12.819-18.819	15.819	0.008
* 59 Phenanthrene-d10	16.016	16.018	16.015	16.019	16.021	16.022	16.023	16.016	13.016-19.016	16.019	0.003
60 Phenanthrene	16.054	16.050	16.053	16.051	16.059	16.065	16.066	16.054	13.054-19.054	16.057	0.007
61 Anthracene	16.129	16.125	16.122	16.126	16.128	16.134	16.141	16.129	13.129-19.129	16.129	0.006
62 Carbazole	16.401	16.397	16.394	16.398	16.406	16.412	16.413	16.401	13.401-19.401	16.403	0.007
63 Di-n-butylphthalate	17.079	17.075	17.073	17.076	17.079	17.085	17.086	17.079	14.079-20.079	17.079	0.005
64 Fluoranthene	18.009	18.005	18.002	18.006	18.008	18.014	18.021	18.009	15.009-21.009	18.009	0.006
65 Pyrene	18.372	18.362	18.365	18.363	18.371	18.377	18.384	18.372	15.372-21.372	18.371	0.008
66 Terphenyl-d14	18.655	18.651	18.648	18.646	18.655	18.660	18.662	18.655	15.655-21.655	18.654	0.006
67 Butylbenzylphthalate	19.520	19.516	19.514	19.517	19.520	19.526	19.527	19.520	16.520-22.520	19.520	0.005
68 Benzo(a)anthracene	20.337	20.328	20.325	20.329	20.337	20.337	20.344	20.337	17.337-23.337	20.334	0.007
* 69 Chrysene-d12	20.364	20.355	20.357	20.356	20.364	20.369	20.371	20.364	17.364-23.364	20.362	0.007
70 3,3'-Dichlorobenzidine	20.327	20.323	20.320	20.324	20.326	20.332	20.333	20.327	17.327-23.327	20.326	0.005
71 Chrysene	20.401	20.392	20.395	20.398	20.406	20.412	20.419	20.401	17.401-23.401	20.403	0.010

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

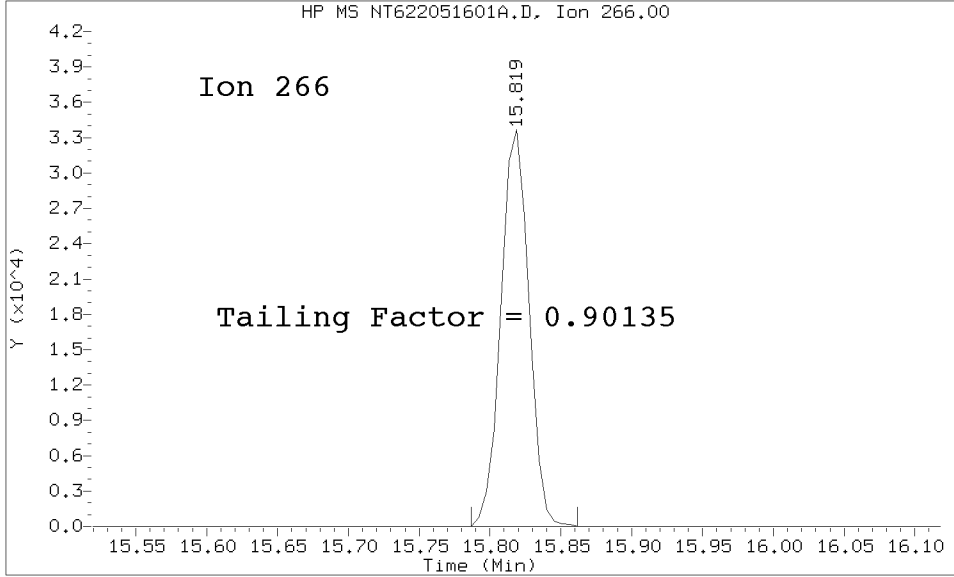
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Batch File: \\target\share\chem3\nt6.i\20220516.b

Inst ID: nt6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
72 bis(2-Ethylhexyl)phtha	20.492	20.494	20.491	20.489	20.492	20.492	20.499	20.492	17.492-23.492	20.493	0.003
* 134 Di-n-octylphthalate-d4	21.432	21.428	21.426	21.429	21.432	21.432	21.439	21.432	18.432-24.432	21.431	0.004
73 Di-n-octylphthalate	21.438	21.434	21.436	21.435	21.443	21.443	21.444	21.438	18.438-24.438	21.439	0.004
74 Benzo(b)fluoranthene	22.004	21.994	21.992	21.995	22.003	22.009	22.021	22.004	19.004-25.004	22.003	0.010
75 Benzo(k)fluoranthene	22.036	22.026	22.024	22.027	22.041	22.052	22.059	22.036	19.036-25.036	22.038	0.013
76 Benzo(a)pyrene	22.468	22.459	22.462	22.460	22.473	22.479	22.491	22.468	19.468-25.468	22.470	0.012
* 77 Perylene-d12	22.554	22.550	22.553	22.551	22.554	22.559	22.561	22.554	19.554-25.554	22.554	0.004
78 Indeno(1,2,3-cd)pyrene	24.391	24.371	24.374	24.377	24.396	24.418	24.435	24.391	21.391-27.391	24.395	0.024
79 Dibenzo(a,h)anthracene	24.413	24.393	24.395	24.399	24.423	24.445	24.462	24.413	21.413-27.413	24.418	0.027
80 Benzo(g,h,i)perylene	24.925	24.895	24.897	24.901	24.936	24.957	24.980	24.925	21.925-27.925	24.927	0.033
90 N-Nitrosodimethylamine	4.336	4.348	4.340	4.338	4.346	4.352	4.358	4.336	1.336-7.336	4.345	0.008
91 Aniline	8.261	8.263	8.260	8.258	8.266	8.272	8.279	8.261	5.261-11.261	8.266	0.007
93 Benzidine	18.244	18.234	18.237	18.235	18.243	18.249	18.256	18.244	15.244-21.244	18.243	0.008
103 Pyridine	4.298	4.337	4.318	4.306	4.303	4.298	4.305	4.298	1.298-7.298	4.309	0.014
187 Total Benzofluoranthen	22.036	21.994	21.992	22.027	22.041	22.052	22.059	22.036	19.036-25.036	22.029	0.026

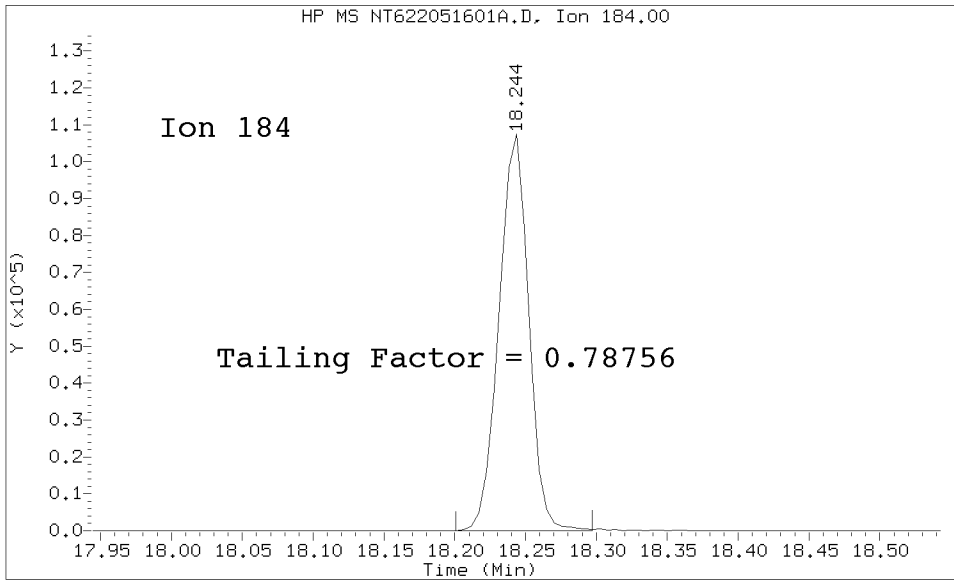
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Method Used: \20220516.b\tune.b\DFTPP.m\sw846ddt.m Inst: nt6
Injection Date: 16-MAY-2022 17:11 Operator: JZ
Sample Info: IC25220516,
Report Date: 05/16/2022 23:19



Pentachlorophenol

=====
Exp. RT = 15.819
Found RT = 15.819

Tail Factor = 0.901 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 18.244
Found RT = 18.244

Tail Factor = 0.788 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.9013524	2.000	PASS
Benzidine	0.7875611	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	90187			N/A
4,4-DDE	0	0.0	20.0	PASS
4,4-DDD	1799	2.0	20.0	PASS
4,4-DDD + DDE	1799	2.0	20.0	PASS

Tuning Sample, /nt6.i/20220516.b/tune.b/NT622051601A.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	26.29
68	Less than 2.00% of mass 69	0.42 (1.40)
69	Mass 69 relative abundance	30.07
70	Less than 2.00% of mass 69	0.17 (0.56)
127	10.00 - 80.00% of mass 198	45.53
197	Less than 2.00% of mass 198	0.23
199	5.00 - 9.00% of mass 198	6.73
275	10.00 - 60.00% of mass 198	27.21
365	Greater than 1.00% of mass 198	3.35
441	0.01 - 24.00% of mass 442	17.96 (17.85)
442	50.00 - 200.00% of mass 198	100.63
443	15.00 - 24.00% of mass 442	20.30 (20.18)

Data File: NT622051601A.D
Spectrum: Avg. Scans 2634-2636 (16.66), Background Scan 2626
Location of Maximum: 442.00
Number of points: 229

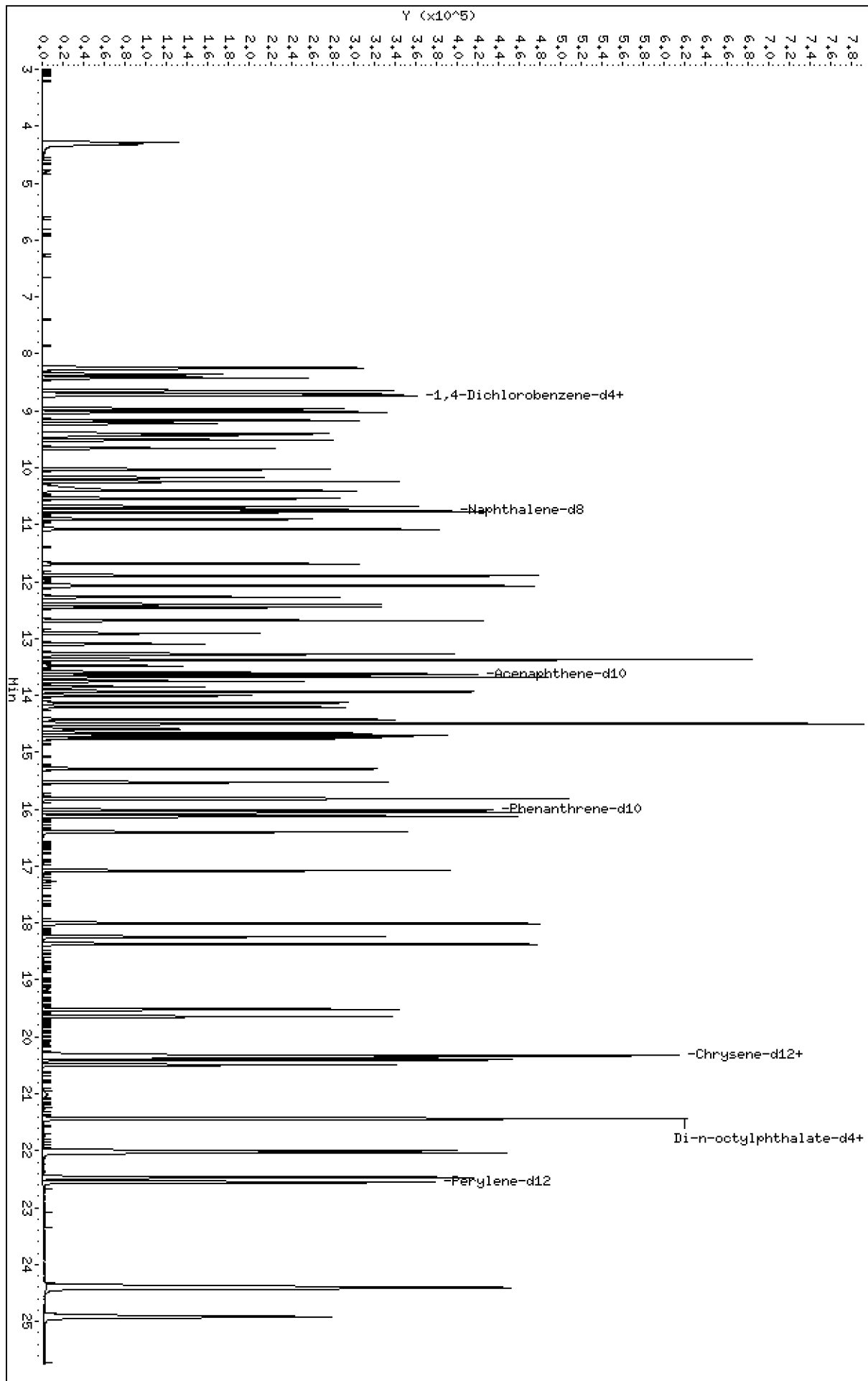
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39.00	1148	129.00	12811	193.00	1013	266.00	103
44.00	113	130.00	1217	194.00	259	271.00	56
49.00	60	131.00	141	195.00	60	273.00	1126
50.00	4820	134.00	423	196.00	1996	274.00	3454
51.00	18744	135.00	1066	197.00	164	275.00	19400
52.00	963	136.00	434	198.00	71296	276.00	2590
56.00	615	137.00	545	199.00	4801	277.00	1618
57.00	1434	138.00	74	200.00	418	278.00	338
61.00	269	139.00	109	201.00	447	283.00	265
62.00	329	140.00	224	203.00	705	284.00	61
63.00	817	141.00	1665	204.00	3001	285.00	336
65.00	429	142.00	603	205.00	4932	293.00	492
68.00	300	143.00	365	206.00	21200	294.00	63
69.00	21440	144.00	64	207.00	2944	296.00	5501
70.00	121	146.00	339	208.00	832	297.00	738
73.00	233	147.00	958	209.00	250	302.00	60
74.00	2368	148.00	1991	210.00	335	303.00	817
75.00	3882	149.00	399	211.00	947	304.00	106
76.00	1273	150.00	60	212.00	60	314.00	249
77.00	26336	151.00	243	215.00	237	315.00	583
78.00	1453	152.00	69	216.00	505	316.00	315
79.00	1748	153.00	608	217.00	5521	321.00	208
80.00	1376	154.00	423	218.00	678	323.00	1660
81.00	1863	155.00	1011	220.00	53	324.00	286
82.00	476	156.00	1634	221.00	3542	327.00	297
83.00	459	157.00	171	222.00	464	328.00	249
85.00	367	158.00	385	223.00	1163	332.00	61
86.00	544	159.00	301	224.00	11755	333.00	114
87.00	337	160.00	544	225.00	3008	334.00	1287
91.00	467	161.00	858	226.00	133	335.00	338
92.00	578	162.00	167	227.00	5356	341.00	207
93.00	3454	165.00	721	228.00	716	346.00	311
94.00	137	166.00	605	229.00	1043	352.00	613
96.00	142	167.00	3611	231.00	383	353.00	383
98.00	2471	168.00	1545	232.00	53	354.00	584
99.00	1824	169.00	309	233.00	57	365.00	2389
100.00	134	170.00	113	234.00	283	366.00	303
101.00	1189	171.00	133	235.00	348	371.00	198
103.00	358	172.00	379	236.00	298	372.00	1084
104.00	708	173.00	399	237.00	256	373.00	237
105.00	660	174.00	892	239.00	225	383.00	257
107.00	9219	175.00	1674	241.00	284	390.00	121
108.00	1373	176.00	454	242.00	545	401.00	53
109.00	66	177.00	660	243.00	184	402.00	400
110.00	16178	178.00	278	244.00	8387	403.00	560
111.00	2434	179.00	2874	245.00	1242	404.00	274
112.00	321	180.00	1899	246.00	1826	421.00	582
113.00	57	181.00	986	247.00	338	422.00	652

116.00	566	182.00	137	248.00	54	423.00	3923
117.00	8142	184.00	166	249.00	373	424.00	785
118.00	581	185.00	1494	250.00	52	441.00	12807
120.00	71	186.00	11703	253.00	137	442.00	71744
122.00	639	187.00	3421	255.00	43824	443.00	14476
123.00	960	188.00	304	256.00	6381	444.00	1454
124.00	428	189.00	711	257.00	309		
125.00	439	190.00	69	258.00	2741		
127.00	32464	191.00	289	259.00	449		

Data File: \\target\share\chem3\nt6.1\20220516.b\N1622051702.D
Date: 17-May-2022 12:39
Client ID:
Sample Info: SKE0212-SCV1
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.1
Operator: JZ
Column diameter: 0.32

\\target\share\chem3\nt6.1\20220516.b\N1622051702.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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 Lab Smp Id: SKE0212-SCV1
 Inj Date : 17-MAY-2022 12:39
 Operator : JZ Inst ID: nt6.i
 Smp Info : SKE0212-SCV1
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Meth Date : 17-May-2022 13:05 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 2 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICV.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/L)
3 Phenol	94		8.240	8.250	(0.947)	132250	23.3708	23.37
4 Bis(2-Chloroethyl)ether	93		8.362	8.368	(0.961)	92614	27.1217	27.12
6 2-Chlorophenol	128		8.421	8.426	(0.967)	105289	22.7881	22.79
7 1,3-Dichlorobenzene	146		8.646	8.651	(0.993)	118625	24.7114	24.71
* 8 1,4-Dichlorobenzene-d4	152		8.704	8.709	(1.000)	78743	20.0000	
9 1,4-Dichlorobenzene	146		8.731	8.736	(1.003)	119878	25.6001	25.60
11 Benzyl alcohol	108		8.966	8.966	(1.030)	67360	25.4868	25.49
12 1,2-Dichlorobenzene	146		9.025	9.030	(1.037)	110097	24.7613	24.76
13 2-Methylphenol	108		9.169	9.174	(1.053)	88639	23.1271	23.13
14 2,2'-oxybis(1-Chloropropane)	45		9.222	9.222	(1.060)	75291	28.7192	28.72
15 4-Methylphenol	108		9.404	9.404	(1.080)	92693	22.6736	22.67
16 N-Nitroso-di-n-propylamine	70		9.436	9.441	(1.084)	62621	24.4606	24.46
17 Hexachloroethane	117		9.511	9.516	(1.093)	47310	25.0523	25.05
19 Nitrobenzene	77		9.660	9.660	(0.899)	98500	25.4579	25.46
20 Isophorone	82		10.029	10.034	(0.933)	170367	34.7325	34.73
21 2-Nitrophenol	139		10.173	10.173	(0.946)	56975	23.7990	23.80
22 2,4-Dimethylphenol	107		10.243	10.248	(0.953)	96910	21.5306	21.53
23 Bis(2-Chloroethoxy)methane	93		10.403	10.408	(0.968)	101564	29.0079	29.01
24 Benzoic acid	105		10.403	10.461	(0.968)	63982	22.2733	22.27
25 2,4-Dichlorophenol	162		10.542	10.541	(0.981)	84571	23.0596	23.06
26 1,2,4-Trichlorobenzene	180		10.686	10.686	(0.994)	101833	24.3683	24.37
* 27 Naphthalene-d8	136		10.750	10.750	(1.000)	265327	20.0000	

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
28 Naphthalene	128	10.782	10.782	(1.003)	274853	24.6459	24.65
29 4-Chloroaniline	127	10.905	10.910	(1.014)	103579	22.5983	22.60
30 Hexachlorobutadiene	225	11.081	11.081	(1.031)	67351	24.9799	24.98
31 4-Chloro-3-methylphenol	107	11.685	11.690	(1.087)	85820	23.2333	23.23
32 2-Methylnaphthalene	141	11.898	11.898	(1.107)	156330	24.5490	24.55
33 Hexachlorocyclopentadiene	237	12.272	12.272	(0.900)	70024	25.0388	25.04
34 2,4,6-Trichlorophenol	196	12.400	12.405	(0.910)	67694	23.4453	23.45
35 2,4,5-Trichlorophenol	196	12.454	12.459	(0.914)	72670	23.6353	23.64
37 2-Chloronaphthalene	162	12.683	12.688	(0.931)	184108	24.5865	24.59
38 2-Nitroaniline	65	12.908	12.913	(0.947)	46209	24.4113	24.41
39 Dimethylphthalate	163	13.271	13.271	(0.974)	204613	24.9692	24.97
40 Acenaphthylene	152	13.372	13.372	(0.981)	296941	24.4572	24.46
41 2,6-Dinitrotoluene	165	13.372	13.372	(0.981)	48513	25.9702	25.97
* 42 Acenaphthene-d10	164	13.629	13.623	(1.000)	154616	20.0000	
43 3-Nitroaniline	138	13.591	13.591	(0.997)	47182	25.8647	25.86
44 Acenaphthene	153	13.677	13.677	(1.004)	173806	24.1449	24.14
45 2,4-Dinitrophenol	184	13.757	13.757	(1.009)	58271	51.1473	51.15
46 Dibenzofuran	168	13.939	13.938	(1.023)	263210	25.3013	25.30
47 4-Nitrophenol	109	13.853	13.853	(1.016)	32165	24.3965	24.40
48 2,4-Dinitrotoluene	165	14.008	14.008	(1.028)	61875	25.6652	25.67
49 Fluorene	166	14.499	14.499	(1.064)	203057	24.4005	24.40
50 Diethylphthalate	149	14.425	14.424	(1.058)	206605	26.1014	26.10
51 4-Chlorophenyl-phenylether	204	14.505	14.504	(1.064)	117904	25.2475	25.25
52 4-Nitroaniline	138	14.596	14.595	(1.071)	41071	24.8962	24.90
53 4,6-Dinitro-2-methylphenol	198	14.665	14.665	(0.916)	81088	53.4614	53.46
54 N-Nitrosodiphenylamine	169	14.708	14.713	(0.918)	147244	24.5229	24.52
56 4-Bromophenyl-phenylether	248	15.295	15.295	(0.955)	65927	25.3362	25.34
57 Hexachlorobenzene	284	15.530	15.530	(0.970)	69479	24.5349	24.53
58 Pentachlorophenol	266	15.819	15.818	(0.988)	87386	46.1932	46.19
* 59 Phenanthrene-d10	188	16.016	16.016	(1.000)	277010	20.0000	
60 Phenanthrene	178	16.059	16.053	(1.003)	277742	24.3243	24.32
61 Anthracene	178	16.128	16.128	(1.007)	278521	24.3856	24.39
62 Carbazole	167	16.401	16.400	(1.024)	227640	23.1864	23.19
63 Di-n-butylphthalate	149	17.079	17.079	(1.066)	317988	25.8648	25.86
64 Fluoranthene	202	18.008	18.008	(1.124)	321810	24.9368	24.94
65 Pyrene	202	18.372	18.371	(0.902)	324542	24.2952	24.30
67 Butylbenzylphthalate	149	19.520	19.520	(0.959)	135550	25.9190	25.92
68 Benzo(a)anthracene	228	20.332	20.337	(0.998)	282228	23.9237	23.92
* 69 Chrysene-d12	240	20.364	20.364	(1.000)	212766	20.0000	
70 3,3'-Dichlorobenzidine	252	20.326	20.326	(0.998)	94354	26.7032	26.70
71 Chrysene	228	20.401	20.401	(1.002)	254630	23.4955	23.50
72 bis(2-Ethylhexyl)phthalate	149	20.492	20.492	(0.956)	176532	25.8894	25.89
* 134 Di-n-octylphthalate-d4	153	21.432	21.432	(1.000)	294742	20.0000	
73 Di-n-octylphthalate	149	21.443	21.437	(1.000)	314040	25.5294	25.53
74 Benzo(b)fluoranthene	252	22.004	22.003	(0.976)	291059	25.0250	25.03
75 Benzo(k)fluoranthene	252	22.036	22.035	(0.977)	285742	24.5191	24.52
187 Total Benzofluoranthenes	252	22.036	22.035	(0.977)	552757	49.9421	49.94
76 Benzo(a)pyrene	252	22.468	22.468	(0.996)	279678	25.6245	25.62
* 77 Perylene-d12	264	22.554	22.553	(1.000)	235601	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	24.391	24.391	(1.081)	380517	23.8517	23.85
79 Dibenzo(a,h)anthracene	278	24.418	24.412	(1.083)	322512	24.1667	24.17
80 Benzo(g,h,i)perylene	276	24.920	24.925	(1.105)	324816	23.7382	23.74
90 N-Nitrosodimethylamine	74	4.325	4.335	(0.497)	57797	29.0876	29.09
91 Aniline	93	8.261	8.261	(0.949)	156829	26.9505	26.95

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/L)
105 1-methylnaphthalene	141	12.075	12.074	(1.123)	156069	25.9664	25.97
111 Azobenzene (1,2-DP-Hydrazine)	77	14.761	14.761	(0.922)	172739	24.4930	24.49
93 Benzidine	184	18.243	18.243	(0.896)	206124	57.4619	57.46
103 Pyridine	79	4.287	4.298	(0.493)	95963	25.6591	25.66
120 2,3,4,6-Tetrachlorophenol	232	14.206	14.205	(1.042)	56016	23.8292	23.83
151 1,2,4,5-Tetrachlorobenzene	216	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 16-MAY-2022
 Lab File ID: NT622051702.D Calibration Time: 17:11
 Lab Smp Id: SKE0212-SCV1
 Analysis Type: SV Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Misc Info: 22-

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	71723	35862	143446	78743	9.79
27 Naphthalene-d8	255203	127602	510406	265327	3.97
42 Acenaphthene-d10	144799	72400	289598	154616	6.78
59 Phenanthrene-d10	257295	128648	514590	277010	7.66
69 Chrysene-d12	195882	97941	391764	212766	8.62
134 Di-n-octylphthala	272032	136016	544064	294742	8.35
77 Perylene-d12	222542	111271	445084	235601	5.87

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.71	8.21	9.21	8.70	-0.06
27 Naphthalene-d8	10.75	10.25	11.25	10.75	0.00
42 Acenaphthene-d10	13.62	13.12	14.12	13.63	0.04
59 Phenanthrene-d10	16.02	15.52	16.52	16.02	0.00
69 Chrysene-d12	20.36	19.86	20.86	20.36	0.00
134 Di-n-octylphthala	21.43	20.93	21.93	21.43	0.00
77 Perylene-d12	22.55	22.05	23.05	22.55	0.00

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

REVIEW SUMMARY FOR FILE - NT622051702.D

Lab ID: SKE0212-SCV1

nt6.i, SW84620220516.m, 17-MAY-2022 12:39

RT CO-ELUTION COMPOUNDS

13.373 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICV.sub = 0.0000

Exception: Total Benzofluoranthenes 0.5000

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

Data File: \\target\share\chem3\nt6.1\20220516.b\N1622051601.D

Date: 16-May-2022 17:11

Client ID:

Sample Info: IC25220516,

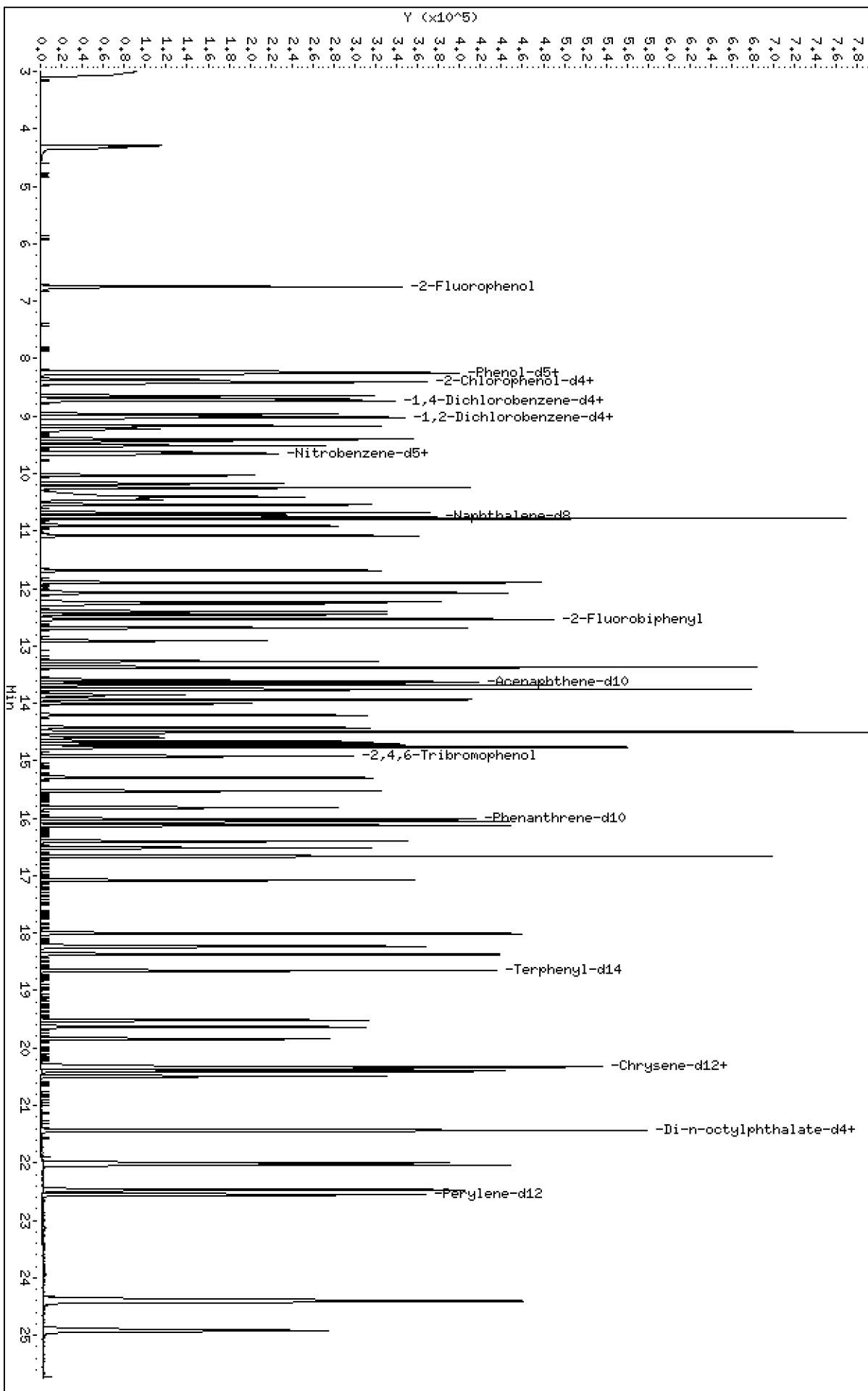
Column phase: ZB-5msi

Instrument: nt6.1

Operator: JZ

Column diameter: 0.32

\\target\share\chem3\nt6.1\20220516.b\N1622051601.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220516.b\NT622051601.D
 Lab Smp Id: SKE0212-CAL4
 Inj Date : 16-MAY-2022 17:11
 Operator : JZ Inst ID: nt6.i
 Smp Info : IC25220516,
 Misc Info : 22-
 Comment : lul Injection
 Method : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Meth Date : 16-May-2022 23:15 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALA.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.749	6.748	(0.775)	150282	37.5000	38.77
\$ 2 Phenol-d5	99		8.229	8.217	(0.945)	171828	37.5000	38.75
3 Phenol	94		8.250	8.239	(0.947)	131809	25.0000	25.57
\$ 5 2-Chlorophenol-d4	132		8.405	8.398	(0.965)	156393	37.5000	39.02
4 Bis(2-Chloroethyl)ether	93		8.368	8.361	(0.961)	81975	25.0000	26.36
6 2-Chlorophenol	128		8.426	8.426	(0.968)	109401	25.0000	26.00
7 1,3-Dichlorobenzene	146		8.651	8.650	(0.993)	112996	25.0000	25.84
* 8 1,4-Dichlorobenzene-d4	152		8.709	8.709	(1.000)	71723	20.0000	
9 1,4-Dichlorobenzene	146		8.736	8.730	(1.003)	109844	25.0000	25.75
\$ 10 1,2-Dichlorobenzene-d4	152		9.008	9.008	(1.034)	74982	25.0000	26.14
12 1,2-Dichlorobenzene	146		9.030	9.029	(1.037)	105421	25.0000	26.03
11 Benzyl alcohol	108		8.966	8.960	(1.029)	65039	25.0000	27.02
14 2,2'-oxybis(1-Chloropropane)	45		9.222	9.216	(1.059)	62324	25.0000	26.10
13 2-Methylphenol	108		9.174	9.173	(1.053)	90389	25.0000	25.89
17 Hexachloroethane	117		9.516	9.515	(1.093)	44862	25.0000	26.08
16 N-Nitroso-di-n-propylamine	70		9.441	9.435	(1.084)	60453	25.0000	25.92
15 4-Methylphenol	108		9.404	9.398	(1.080)	97230	25.0000	26.11
\$ 18 Nitrobenzene-d5	82		9.633	9.627	(0.896)	99013	25.0000	25.27
19 Nitrobenzene	77		9.660	9.654	(0.899)	94522	25.0000	25.40
20 Isophorone	82		10.034	10.028	(0.933)	122639	25.0000	25.99
21 2-Nitrophenol	139		10.173	10.172	(0.946)	59235	25.0000	25.72
22 2,4-Dimethylphenol	107		10.248	10.242	(0.953)	111236	25.0000	25.69
23 Bis(2-Chloroethoxy)methane	93		10.408	10.402	(0.968)	84931	25.0000	25.22
24 Benzoic acid	105		10.461	10.370	(0.973)	147655	50.0000	53.44
25 2,4-Dichlorophenol	162		10.541	10.535	(0.981)	91199	25.0000	25.85
26 1,2,4-Trichlorobenzene	180		10.686	10.685	(0.994)	101122	25.0000	25.16
* 27 Naphthalene-d8	136		10.750	10.749	(1.000)	255203	20.0000	
28 Naphthalene	128		10.782	10.781	(1.003)	269518	25.0000	25.13
29 4-Chloroaniline	127		10.910	10.904	(1.015)	113436	25.0000	25.73
30 Hexachlorobutadiene	225		11.081	11.080	(1.031)	66175	25.0000	25.52
31 4-Chloro-3-methylphenol	107		11.690	11.684	(1.087)	90374	25.0000	25.44
32 2-Methylnaphthalene	141		11.898	11.897	(1.107)	158929	25.0000	25.95
33 Hexachlorocyclopentadiene	237		12.272	12.271	(0.901)	70601	25.0000	26.96

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	12.405	12.399	(0.911)	71808	25.0000	26.56
35 2,4,5-Trichlorophenol	196	12.459	12.453	(0.915)	74918	25.0000	26.02
\$ 36 2-Fluorobiphenyl	172	12.534	12.533	(0.920)	224789	25.0000	25.52
37 2-Chloronaphthalene	162	12.688	12.682	(0.931)	180010	25.0000	25.67
38 2-Nitroaniline	65	12.913	12.907	(0.948)	46498	25.0000	26.23
39 Dimethylphthalate	163	13.271	13.265	(0.974)	196191	25.0000	25.56
40 Acenaphthylene	152	13.372	13.371	(0.982)	291426	25.0000	25.63
41 2,6-Dinitrotoluene	165	13.372	13.371	(0.982)	45596	25.0000	26.06
* 42 Acenaphthene-d10	164	13.623	13.622	(1.000)	144799	20.0000	
43 3-Nitroaniline	138	13.591	13.580	(0.998)	43674	25.0000	25.56
44 Acenaphthene	153	13.677	13.670	(1.004)	172429	25.0000	25.58
45 2,4-Dinitrophenol	184	13.757	13.751	(1.010)	55288	50.0000	51.77
46 Dibenzofuran	168	13.938	13.932	(1.023)	257320	25.0000	26.41
47 4-Nitrophenol	109	13.853	13.847	(1.017)	33791	25.0000	27.37
48 2,4-Dinitrotoluene	165	14.008	13.996	(1.028)	59384	25.0000	26.30
50 Diethylphthalate	149	14.424	14.413	(1.059)	189558	25.0000	25.57
49 Fluorene	166	14.499	14.493	(1.064)	198453	25.0000	25.46
51 4-Chlorophenyl-phenylether	204	14.504	14.498	(1.065)	110792	25.0000	25.33
52 4-Nitroaniline	138	14.595	14.584	(1.071)	38460	25.0000	24.89
53 4,6-Dinitro-2-methylphenol	198	14.665	14.659	(0.916)	77803	50.0000	55.23
54 N-Nitrosodiphenylamine	169	14.713	14.701	(0.919)	141011	25.0000	25.28
\$ 55 2,4,6-Tribromophenol	330	14.921	14.915	(1.095)	48341	37.5000	39.24
56 4-Bromophenyl-phenylether	248	15.295	15.289	(0.955)	62019	25.0000	25.66
57 Hexachlorobenzene	284	15.530	15.524	(0.970)	67072	25.0000	25.50
58 Pentachlorophenol	266	15.818	15.812	(0.988)	46376	25.0000	26.39
* 59 Phenanthrene-d10	188	16.016	16.015	(1.000)	257295	20.0000	
60 Phenanthrene	178	16.053	16.053	(1.002)	268033	25.0000	25.27
61 Anthracene	178	16.128	16.122	(1.007)	269425	25.0000	25.40
62 Carbazole	167	16.400	16.393	(1.024)	224147	25.0000	24.58
63 Di-n-butylphthalate	149	17.079	17.073	(1.066)	290822	25.0000	25.47
64 Fluoranthene	202	18.008	18.002	(1.124)	305221	25.0000	25.46
65 Pyrene	202	18.371	18.365	(0.902)	307235	25.0000	24.98
\$ 66 Terphenyl-d14	244	18.654	18.648	(0.916)	239400	25.0000	25.71
67 Butylbenzylphthalate	149	19.520	19.514	(0.959)	124326	25.0000	25.82
68 Benzo(a)anthracene	228	20.337	20.325	(0.999)	268974	25.0000	24.77
* 69 Chrysene-d12	240	20.364	20.357	(1.000)	195882	20.0000	
70 3,3'-Dichlorobenzidine	252	20.326	20.320	(0.998)	73539	25.0000	22.61
71 Chrysene	228	20.401	20.395	(1.002)	249697	25.0000	25.03
72 bis(2-Ethylhexyl)phthalate	149	20.492	20.491	(0.956)	163422	25.0000	25.97
* 134 Di-n-octylphthalate-d4	153	21.432	21.426	(1.000)	272032	20.0000	
73 Di-n-octylphthalate	149	21.437	21.436	(1.000)	284604	25.0000	25.07
74 Benzo(b)fluoranthene	252	22.003	21.992	(0.976)	283729	25.0000	25.83
75 Benzo(k)fluoranthene	252	22.035	22.024	(0.977)	275358	25.0000	25.01
187 Total Benzofluoranthenes	252	22.035	21.992	(0.977)	534018	50.0000	51.08
76 Benzo(a)pyrene	252	22.468	22.462	(0.996)	264437	25.0000	25.65
* 77 Perylene-d12	264	22.553	22.553	(1.000)	222542	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	24.391	24.374	(1.081)	370349	25.0000	24.58
79 Dibenzo(a,h)anthracene	278	24.412	24.395	(1.082)	313513	25.0000	24.87
80 Benzo(g,h,i)perylene	276	24.925	24.897	(1.105)	319479	25.0000	24.72
90 N-Nitrosodimethylamine	74	4.335	4.340	(0.498)	46142	25.0000	25.49
103 Pyridine	79	4.298	4.317	(0.493)	89426	25.0000	26.25
91 Aniline	93	8.261	8.260	(0.948)	139944	25.0000	26.40
105 1-methylnaphthalene	141	12.074	12.074	(1.123)	147650	25.0000	25.54
93 Benzidine	184	18.243	18.237	(0.896)	157211	50.0000	47.60

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
111 Azobenzene (1,2-DP-Hydrazine)	77		14.761	14.755	(0.922)	168676	25.0000	25.75
144 alpha-Terpineol	59		10.782	10.776	(1.003)	56905	25.0000	25.79
133 Butylatedhydroxytoluene	205		13.762	13.756	(1.010)	201776	25.0000	26.26
115 Tributyl Phosphate	99		14.766	14.760	(0.922)	191765	25.0000	25.95
116 Dibutyl Phenyl Phosphate	175		16.518	16.512	(1.031)	144795	25.0000	26.27
117 Butyl Diphenyl Phosphate	94		18.227	18.221	(0.895)	42552	25.0000	26.85
118 Triphenyl Phosphate	326		19.845	19.839	(0.975)	48710	25.0000	25.16
120 2,3,4,6-Tetrachlorophenol	232		14.205	14.205	(1.043)	57446	25.0000	26.09
151 1,2,4,5-Tetrachlorobenzene	216		12.240	12.239	(0.898)	101330	25.0000	25.50

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 16-MAY-2022
 Lab File ID: NT622051601.D Calibration Time: 17:11
 Lab Smp Id: SKE0212-CAL4
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Misc Info: 22-

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	71723	35862	143446	71723	0.00
27 Naphthalene-d8	255203	127602	510406	255203	0.00
42 Acenaphthene-d10	144799	72400	289598	144799	0.00
59 Phenanthrene-d10	257295	128648	514590	257295	0.00
69 Chrysene-d12	195882	97941	391764	195882	0.00
134 Di-n-octylphthala	272032	136016	544064	272032	0.00
77 Perylene-d12	222542	111271	445084	222542	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.71	8.21	9.21	8.71	0.00
27 Naphthalene-d8	10.75	10.25	11.25	10.75	0.00
42 Acenaphthene-d10	13.62	13.12	14.12	13.62	0.00
59 Phenanthrene-d10	16.02	15.52	16.52	16.02	0.00
69 Chrysene-d12	20.36	19.86	20.86	20.36	0.00
134 Di-n-octylphthala	21.43	20.93	21.93	21.43	0.00
77 Perylene-d12	22.55	22.05	23.05	22.55	0.00

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

REVIEW SUMMARY FOR FILE - NT622051601.D

Lab ID: SKE0212-CAL4

nt6.i, SW84620220516.m, 16-MAY-2022 17:11

RT CO-ELUTION COMPOUNDS

13.373 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICALA.sub = 0.0100

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

Data File: \\target\share\chem3\nt6.1\20220516.b\N1622051602.D

Date: 16-May-2022 17:45

Client ID:

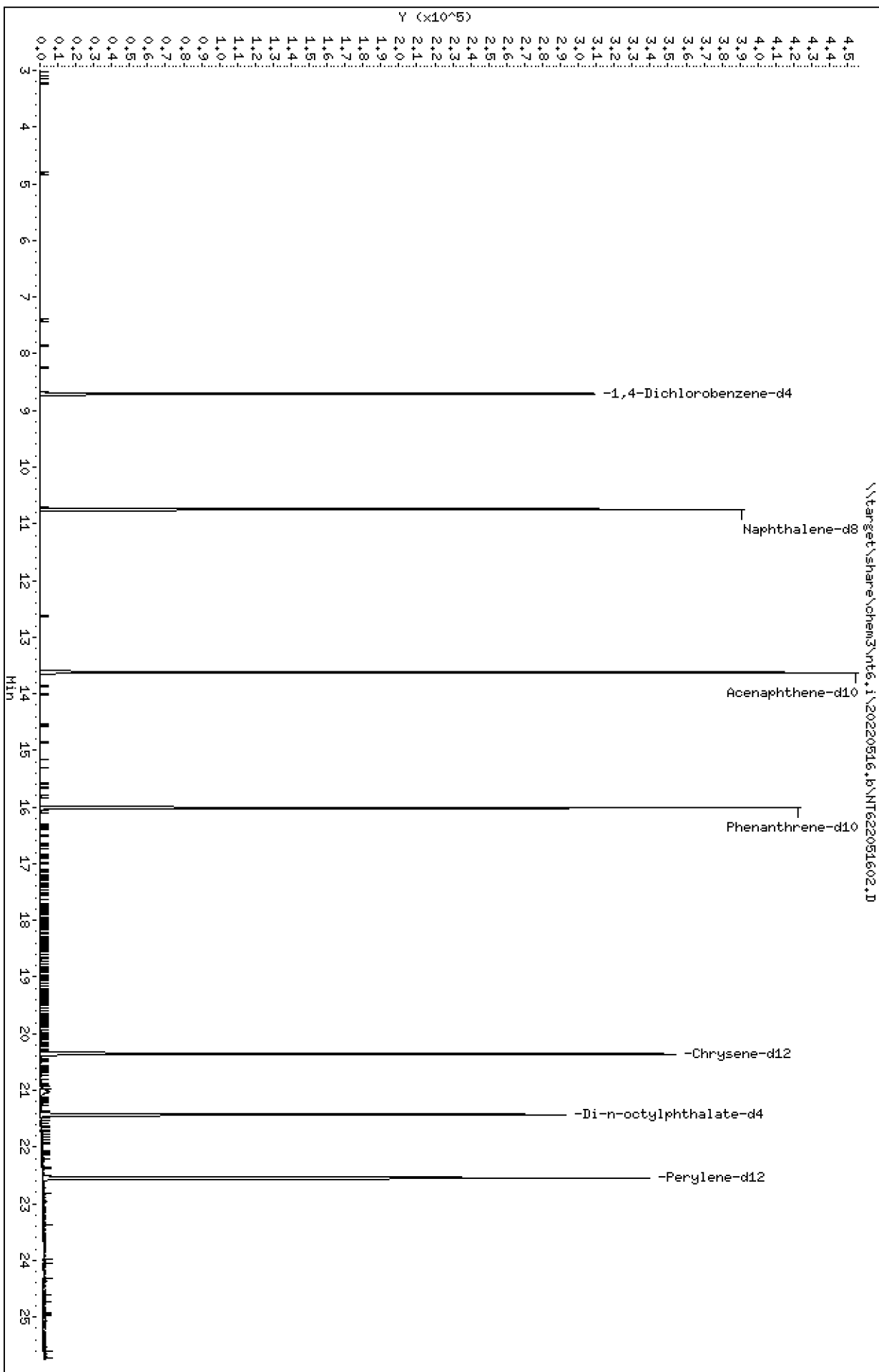
Sample Info: ICB220516

Column phase: ZB-5msi

Instrument: nt6.1

Operator: JZ

Column diameter: 0.32



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220516.b\NT622051602.D
 Lab Smp Id: SKE0212-ICB1
 Inj Date : 16-MAY-2022 17:45
 Operator : JZ Inst ID: nt6.i
 Smp Info : ICB220516
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Meth Date : 17-May-2022 13:05 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALA.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112							
\$ 2 Phenol-d5	99							
3 Phenol	94							
\$ 5 2-Chlorophenol-d4	132							
4 Bis(2-Chloroethyl)ether	93							
6 2-Chlorophenol	128							
7 1,3-Dichlorobenzene	146							
* 8 1,4-Dichlorobenzene-d4	152		8.708	8.709	(1.000)	75058	20.0000	
9 1,4-Dichlorobenzene	146							
\$ 10 1,2-Dichlorobenzene-d4	152							
12 1,2-Dichlorobenzene	146							
11 Benzyl alcohol	108							
14 2,2'-oxybis(1-Chloropropane)	45							
13 2-Methylphenol	108							
17 Hexachloroethane	117							
16 N-Nitroso-di-n-propylamine	70							
15 4-Methylphenol	108							
\$ 18 Nitrobenzene-d5	82							
19 Nitrobenzene	77							
20 Isophorone	82							
21 2-Nitrophenol	139							
22 2,4-Dimethylphenol	107							
23 Bis(2-Chloroethoxy)methane	93							
24 Benzoic acid	105							
25 2,4-Dichlorophenol	162							
26 1,2,4-Trichlorobenzene	180							
* 27 Naphthalene-d8	136		10.748	10.750	(1.000)	256178	20.0000	
28 Naphthalene	128							
29 4-Chloroaniline	127							
30 Hexachlorobutadiene	225							
31 4-Chloro-3-methylphenol	107							
32 2-Methylnaphthalene	141							
33 Hexachlorocyclopentadiene	237							

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172							
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152							
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		13.622	13.623	(1.000)	146782	20.0000	
43 3-Nitroaniline	138							
44 Acenaphthene	153							
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168							
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166							
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330							
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		16.015	16.016	(1.000)	256993	20.0000	
60 Phenanthrene	178							
61 Anthracene	178							
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202							
65 Pyrene	202							
\$ 66 Terphenyl-d14	244							
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228							
* 69 Chrysene-d12	240		20.357	20.364	(1.000)	199514	20.0000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228							
72 bis(2-Ethylhexyl)phthalate	149							
* 134 Di-n-octylphthalate-d4	153		21.425	21.432	(1.000)	262864	20.0000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252							
75 Benzo(k)fluoranthene	252							
187 Total Benzofluoranthenes	252							
76 Benzo(a)pyrene	252							
* 77 Perylene-d12	264		22.547	22.553	(1.000)	212958	20.0000	
78 Indeno(1,2,3-cd)pyrene	276							
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276							
90 N-Nitrosodimethylamine	74							
103 Pyridine	79							
91 Aniline	93							
105 1-methylnaphthalene	141							
93 Benzidine	184							

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
111 Azobenzene (1,2-DP-Hydrazine)	77				Compound Not Detected.		
144 alpha-Terpineol	59				Compound Not Detected.		
133 Butylatedhydroxytoluene	205				Compound Not Detected.		
115 Tributyl Phosphate	99				Compound Not Detected.		
116 Dibutyl Phenyl Phosphate	175				Compound Not Detected.		
117 Butyl Diphenyl Phosphate	94				Compound Not Detected.		
118 Triphenyl Phosphate	326				Compound Not Detected.		
120 2,3,4,6-Tetrachlorophenol	232				Compound Not Detected.		
151 1,2,4,5-Tetrachlorobenzene	216				Compound Not Detected.		

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 16-MAY-2022
 Lab File ID: NT622051602.D Calibration Time: 17:11
 Lab Smp Id: SKE0212-ICB1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Misc Info: 22-

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	71723	35862	143446	75058	4.65
27 Naphthalene-d8	255203	127602	510406	256178	0.38
42 Acenaphthene-d10	144799	72400	289598	146782	1.37
59 Phenanthrene-d10	257295	128648	514590	256993	-0.12
69 Chrysene-d12	195882	97941	391764	199514	1.85
134 Di-n-octylphthala	272032	136016	544064	262864	-3.37
77 Perylene-d12	222542	111271	445084	212958	-4.31

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.71	8.21	9.21	8.71	-0.01
27 Naphthalene-d8	10.75	10.25	11.25	10.75	-0.01
42 Acenaphthene-d10	13.62	13.12	14.12	13.62	-0.01
59 Phenanthrene-d10	16.02	15.52	16.52	16.02	-0.01
69 Chrysene-d12	20.36	19.86	20.86	20.36	-0.03
134 Di-n-octylphthala	21.43	20.93	21.93	21.43	-0.03
77 Perylene-d12	22.55	22.05	23.05	22.55	-0.03

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

REVIEW SUMMARY FOR FILE - NT622051602.D

Lab ID: SKE0212-ICB1
nt6.i, SW84620220516.m, 16-MAY-2022 17:45

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICALA.sub = 0.0100

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

Data File: \\target\share\chem3\nt6.1\20220516.b\N1622051603.D

Date: 16-May-2022 18:19

Client ID:

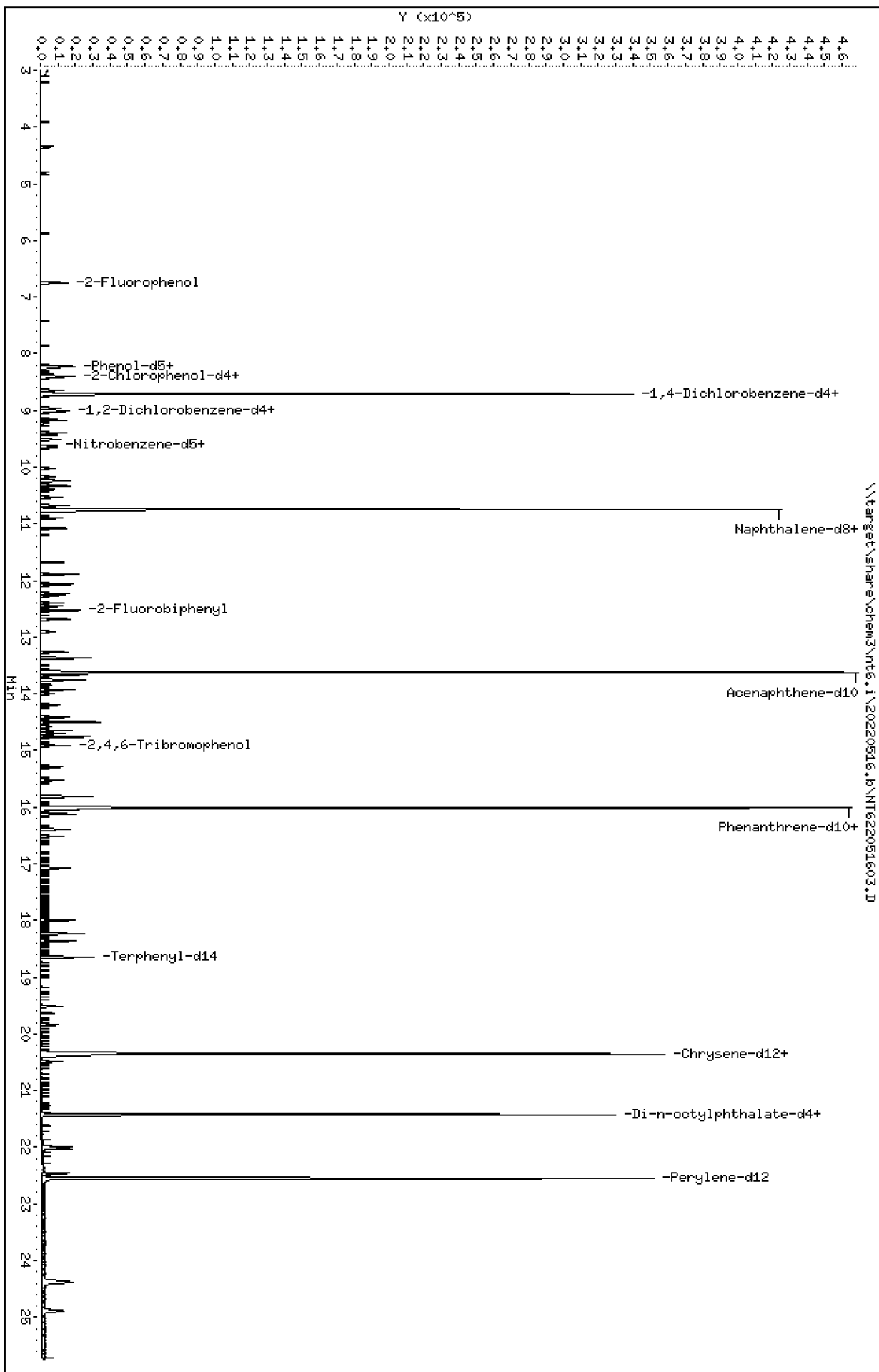
Sample Info: IC1220516,

Column phase: ZB-5msi

Instrument: nt6.1

Operator: JZ

Column diameter: 0.32



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220516.b\NT622051603.D
 Lab Smp Id: SKE0212-CAL1
 Inj Date : 16-MAY-2022 18:19
 Operator : JZ Inst ID: nt6.i
 Smp Info : IC1220516,
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Meth Date : 16-May-2022 23:15 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 3 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALA.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
1 2-Fluorophenol	112		6.751	6.748	(0.775)	7156	1.50000	1.684
2 Phenol-d5	99		8.219	8.217	(0.944)	8321	1.50000	1.712
3 Phenol	94		8.235	8.239	(0.946)	6523	1.00000	1.154
5 2-Chlorophenol-d4	132		8.401	8.398	(0.965)	7672	1.50000	1.746
4 Bis(2-Chloroethyl)ether	93		8.358	8.361	(0.960)	3473	1.00000	1.019
6 2-Chlorophenol	128		8.422	8.426	(0.967)	5190	1.00000	1.125
7 1,3-Dichlorobenzene	146		8.647	8.650	(0.993)	5006	1.00000	1.044
* 8 1,4-Dichlorobenzene-d4	152		8.705	8.709	(1.000)	78626	20.0000	
9 1,4-Dichlorobenzene	146		8.732	8.730	(1.003)	4895	1.00000	1.047
\$ 10 1,2-Dichlorobenzene-d4	152		9.004	9.008	(1.034)	3577	1.00000	1.138 (M)
12 1,2-Dichlorobenzene	146		9.026	9.029	(1.037)	4640	1.00000	1.045
11 Benzyl alcohol	108		8.962	8.960	(1.029)	2638	1.00000	0.9996
14 2,2'-oxybis(1-Chloropropane)	45		9.218	9.216	(1.059)	2794	1.00000	1.067
13 2-Methylphenol	108		9.170	9.173	(1.053)	4289	1.00000	1.121
17 Hexachloroethane	117		9.517	9.515	(1.093)	1965	1.00000	1.042
16 N-Nitroso-di-n-propylamine	70		9.432	9.435	(1.083)	2836	1.00000	1.109
15 4-Methylphenol	108		9.394	9.398	(1.079)	4403	1.00000	1.079
\$ 18 Nitrobenzene-d5	82		9.629	9.627	(0.896)	4822	1.00000	1.161
19 Nitrobenzene	77		9.656	9.654	(0.899)	4494	1.00000	1.140
20 Isophorone	82		10.025	10.028	(0.933)	5253	1.00000	1.051
21 2-Nitrophenol	139		10.169	10.172	(0.946)	2441	1.00000	1.001
22 2,4-Dimethylphenol	107		10.238	10.242	(0.953)	4954	1.00000	1.080
23 Bis(2-Chloroethoxy)methane	93		10.398	10.402	(0.968)	4087	1.00000	1.145
24 Benzoic acid	105		10.334	10.370	(0.962)	8791	4.00000	3.003
25 2,4-Dichlorophenol	162		10.537	10.535	(0.981)	4006	1.00000	1.072
26 1,2,4-Trichlorobenzene	180		10.682	10.685	(0.994)	4750	1.00000	1.115
* 27 Naphthalene-d8	136		10.746	10.749	(1.000)	270390	20.0000	
28 Naphthalene	128		10.778	10.781	(1.003)	13363	1.00000	1.176
29 4-Chloroaniline	127		10.901	10.904	(1.014)	5239	1.00000	1.122
30 Hexachlorobutadiene	225		11.082	11.080	(1.031)	2966	1.00000	1.079
31 4-Chloro-3-methylphenol	107		11.686	11.684	(1.087)	4215	1.00000	1.120
32 2-Methylnaphthalene	141		11.894	11.897	(1.107)	7411	1.00000	1.142
33 Hexachlorocyclopentadiene	237		12.273	12.271	(0.901)	2512	1.00000	0.8597

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	12.396	12.399	(0.910)	2810	1.00000	0.9315
35 2,4,5-Trichlorophenol	196	12.455	12.453	(0.914)	3341	1.00000	1.040
\$ 36 2-Fluorobiphenyl	172	12.530	12.533	(0.920)	12079	1.00000	1.229
37 2-Chloronaphthalene	162	12.679	12.682	(0.931)	8812	1.00000	1.126
38 2-Nitroaniline	65	12.903	12.907	(0.947)	2250	1.00000	1.138
39 Dimethylphthalate	163	13.261	13.265	(0.973)	9875	1.00000	1.153
40 Acenaphthylene	152	13.368	13.371	(0.981)	14623	1.00000	1.153
41 2,6-Dinitrotoluene	165	13.368	13.371	(0.981)	1867	1.00000	0.9566
* 42 Acenaphthene-d10	164	13.624	13.622	(1.000)	161550	20.0000	
43 3-Nitroaniline	138	13.582	13.580	(0.997)	2021	1.00000	1.060 (M)
44 Acenaphthene	153	13.673	13.670	(1.004)	8464	1.00000	1.125
45 2,4-Dinitrophenol	184	13.747	13.751	(1.009)	1537	4.00000	1.383
46 Dibenzofuran	168	13.929	13.932	(1.022)	12263	1.00000	1.128
47 4-Nitrophenol	109	13.843	13.847	(1.016)	1299	1.00000	0.9430
48 2,4-Dinitrotoluene	165	13.998	13.996	(1.027)	2338	1.00000	0.9282
50 Diethylphthalate	149	14.415	14.413	(1.058)	9367	1.00000	1.133
49 Fluorene	166	14.495	14.493	(1.064)	9846	1.00000	1.132
51 4-Chlorophenyl-phenylether	204	14.500	14.498	(1.064)	5411	1.00000	1.109 (M)
52 4-Nitroaniline	138	14.575	14.584	(1.070)	1907	1.00000	1.106
53 4,6-Dinitro-2-methylphenol	198	14.650	14.659	(0.915)	4522	4.00000	2.953
54 N-Nitrosodiphenylamine	169	14.703	14.701	(0.918)	7148	1.00000	1.179
\$ 55 2,4,6-Tribromophenol	330	14.912	14.915	(1.094)	3001	1.50000	2.183
56 4-Bromophenyl-phenylether	248	15.291	15.289	(0.955)	2845	1.00000	1.083
57 Hexachlorobenzene	284	15.526	15.524	(0.969)	3264	1.00000	1.142
58 Pentachlorophenol	266	15.809	15.812	(0.987)	5096	3.00000	2.668
* 59 Phenanthrene-d10	188	16.017	16.015	(1.000)	279651	20.0000	
60 Phenanthrene	178	16.049	16.053	(1.002)	13697	1.00000	1.188
61 Anthracene	178	16.124	16.122	(1.007)	13359	1.00000	1.159
62 Carbazole	167	16.396	16.393	(1.024)	11579	1.00000	1.168
63 Di-n-butylphthalate	149	17.075	17.073	(1.066)	14446	1.00000	1.164
64 Fluoranthene	202	18.004	18.002	(1.124)	14797	1.00000	1.136
65 Pyrene	202	18.362	18.365	(0.902)	14802	1.00000	1.148
\$ 66 Terphenyl-d14	244	18.650	18.648	(0.916)	18614	1.00000	1.907
67 Butylbenzylphthalate	149	19.516	19.514	(0.959)	5202	1.00000	1.031
68 Benzo(a)anthracene	228	20.327	20.325	(0.999)	12944	1.00000	1.137
* 69 Chrysene-d12	240	20.354	20.357	(1.000)	205373	20.0000	
70 3,3'-Dichlorobenzidine	252	20.322	20.320	(0.998)	4082	1.00000	1.197
71 Chrysene	228	20.392	20.395	(1.002)	12210	1.00000	1.167
72 bis(2-Ethylhexyl)phthalate	149	20.493	20.491	(0.956)	6836	1.00000	1.102
* 134 Di-n-octylphthalate-d4	153	21.428	21.426	(1.000)	268090	20.0000	
73 Di-n-octylphthalate	149	21.433	21.436	(1.000)	13454	1.00000	1.202
74 Benzo(b)fluoranthene	252	21.994	21.992	(0.975)	12073	1.00000	1.129
75 Benzo(k)fluoranthene	252	22.026	22.024	(0.977)	12071	1.00000	1.126
187 Total Benzofluoranthenes	252	21.994	21.992	(0.975)	22897	2.00000	2.249
76 Benzo(a)pyrene	252	22.459	22.462	(0.996)	11050	1.00000	1.101
* 77 Perylene-d12	264	22.549	22.553	(1.000)	216707	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	24.371	24.374	(1.081)	15318	1.00000	1.044
79 Dibenzo(a,h)anthracene	278	24.392	24.395	(1.082)	12858	1.00000	1.047
80 Benzo(g,h,i)perylene	276	24.894	24.897	(1.104)	13222	1.00000	1.051
90 N-Nitrosodimethylamine	74	4.347	4.340	(0.499)	1889	1.00000	0.9521
103 Pyridine	79	4.336	4.317	(0.498)	3684	1.00000	0.9865
91 Aniline	93	8.262	8.260	(0.949)	6440	1.00000	1.108
105 1-methylnaphthalene	141	12.070	12.074	(1.123)	7072	1.00000	1.155
93 Benzidine	184	18.234	18.237	(0.896)	14072	4.00000	4.064

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/mL)	ON-COL (ug/mL)
111 Azobenzene (1,2-DP-Hydrazine)	77	14.751	14.755	(0.921)	8518	1.00000	1.196
144 alpha-Terpineol	59	10.772	10.776	(1.002)	2571	1.00000	1.100
133 Butylatedhydroxytoluene	205	13.758	13.756	(1.010)	10407	1.00000	1.214
115 Tributyl Phosphate	99	14.757	14.760	(0.921)	9905	1.00000	1.233
116 Dibutyl Phenyl Phosphate	175	16.514	16.512	(1.031)	7037	1.00000	1.175
117 Butyl Diphenyl Phosphate	94	18.223	18.221	(0.895)	1720	1.00000	1.035
118 Triphenyl Phosphate	326	19.836	19.839	(0.975)	2420	1.00000	1.192
120 2,3,4,6-Tetrachlorophenol	232	14.201	14.205	(1.042)	2384	1.00000	0.9706
151 1,2,4,5-Tetrachlorobenzene	216	12.236	12.239	(0.898)	4849	1.00000	1.094

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 16-MAY-2022
 Lab File ID: NT622051603.D Calibration Time: 17:11
 Lab Smp Id: SKE0212-CAL1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Misc Info: 22-

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	71723	35862	143446	78626	9.62
27 Naphthalene-d8	255203	127602	510406	270390	5.95
42 Acenaphthene-d10	144799	72400	289598	161550	11.57
59 Phenanthrene-d10	257295	128648	514590	279651	8.69
69 Chrysene-d12	195882	97941	391764	205373	4.85
134 Di-n-octylphthala	272032	136016	544064	268090	-1.45
77 Perylene-d12	222542	111271	445084	216707	-2.62

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.71	8.21	9.21	8.71	-0.05
27 Naphthalene-d8	10.75	10.25	11.25	10.75	-0.04
42 Acenaphthene-d10	13.62	13.12	14.12	13.62	0.01
59 Phenanthrene-d10	16.02	15.52	16.52	16.02	0.01
69 Chrysene-d12	20.36	19.86	20.86	20.35	-0.05
134 Di-n-octylphthala	21.43	20.93	21.93	21.43	-0.02
77 Perylene-d12	22.55	22.05	23.05	22.55	-0.02

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

REVIEW SUMMARY FOR FILE - NT622051603.D

Lab ID: SKE0212-CAL1

nt6.i, SW84620220516.m, 16-MAY-2022 18:19

RT CO-ELUTION COMPOUNDS

13.369 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

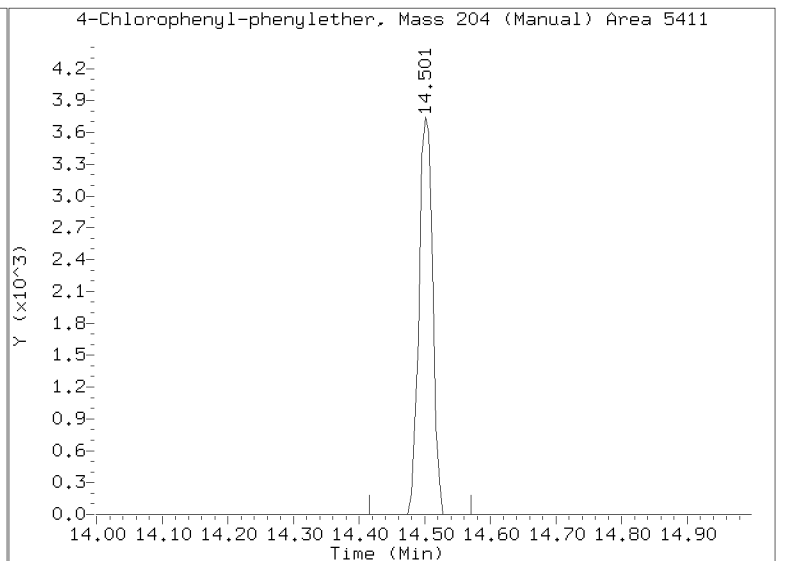
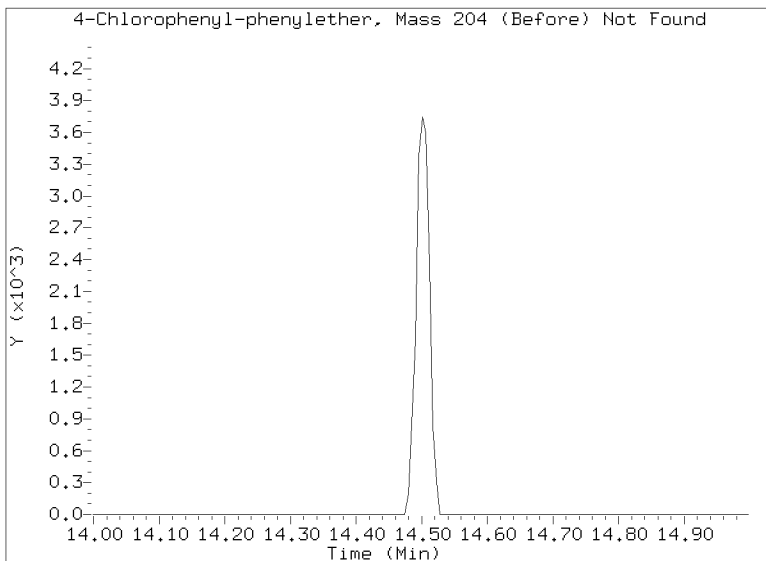
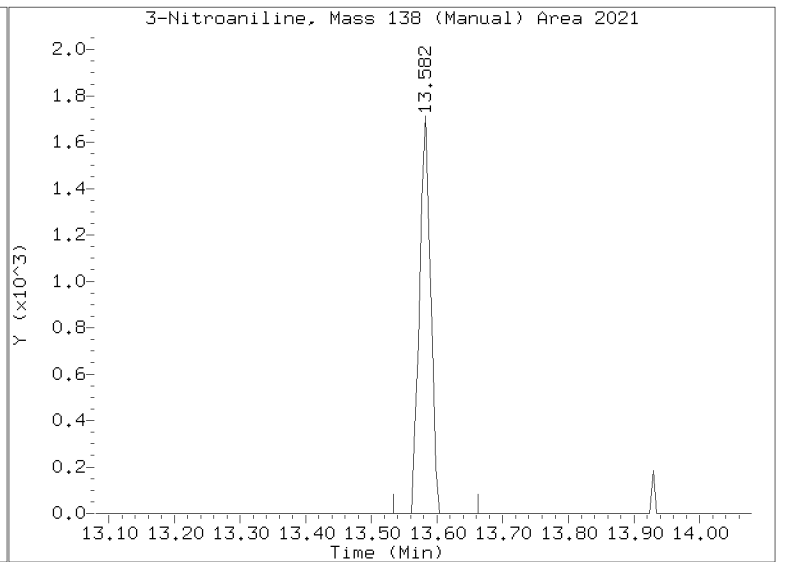
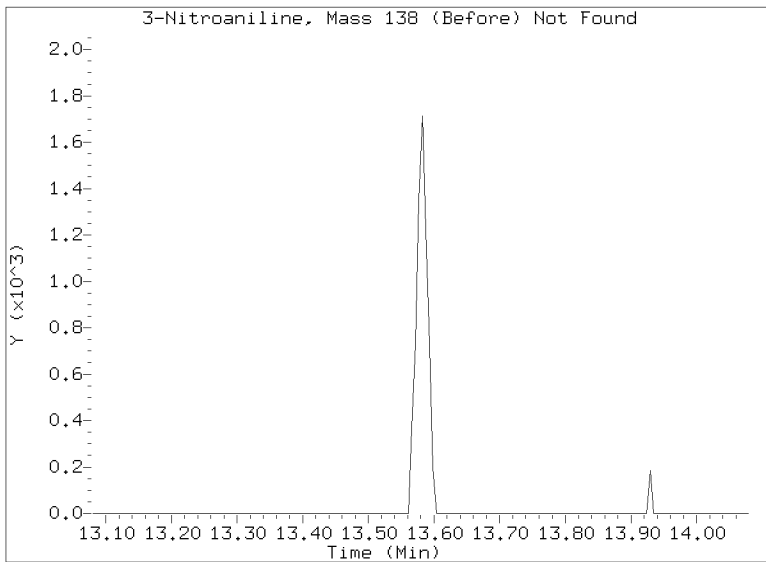
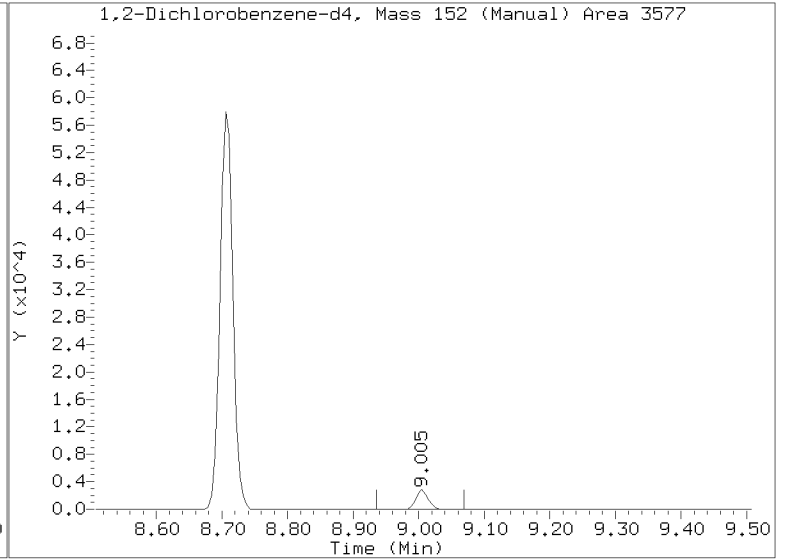
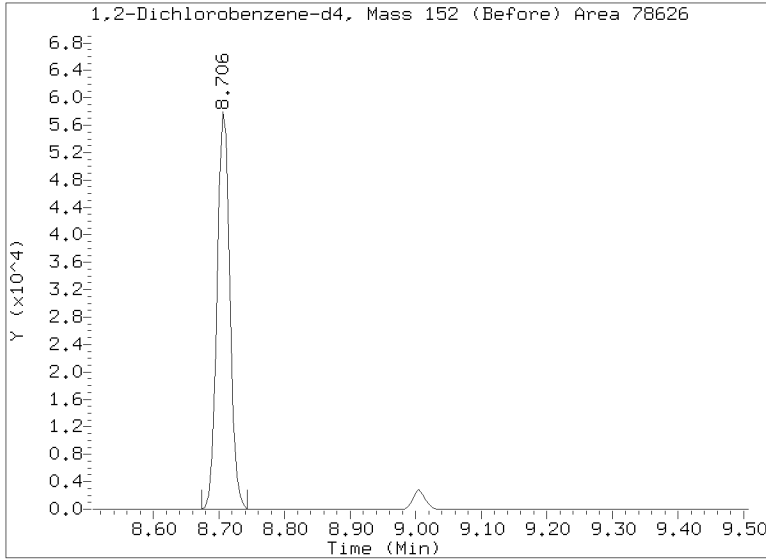
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On Column LOD for nt6.i, SW84620220516.m, ICALA.sub = 0.0100

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

Quant Ion Manual Peak Adjustment Report

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Injection Date: 16-MAY-2022 18:19
Lab ID: SKE0212-CAL1 Client ID:
Report Date: 05/16/2022 23:18



Data File: \\target\share\chem3\nt6.1\20220516.b\N1622051604.D

Date: 16-May-2022 18:52

Client ID:

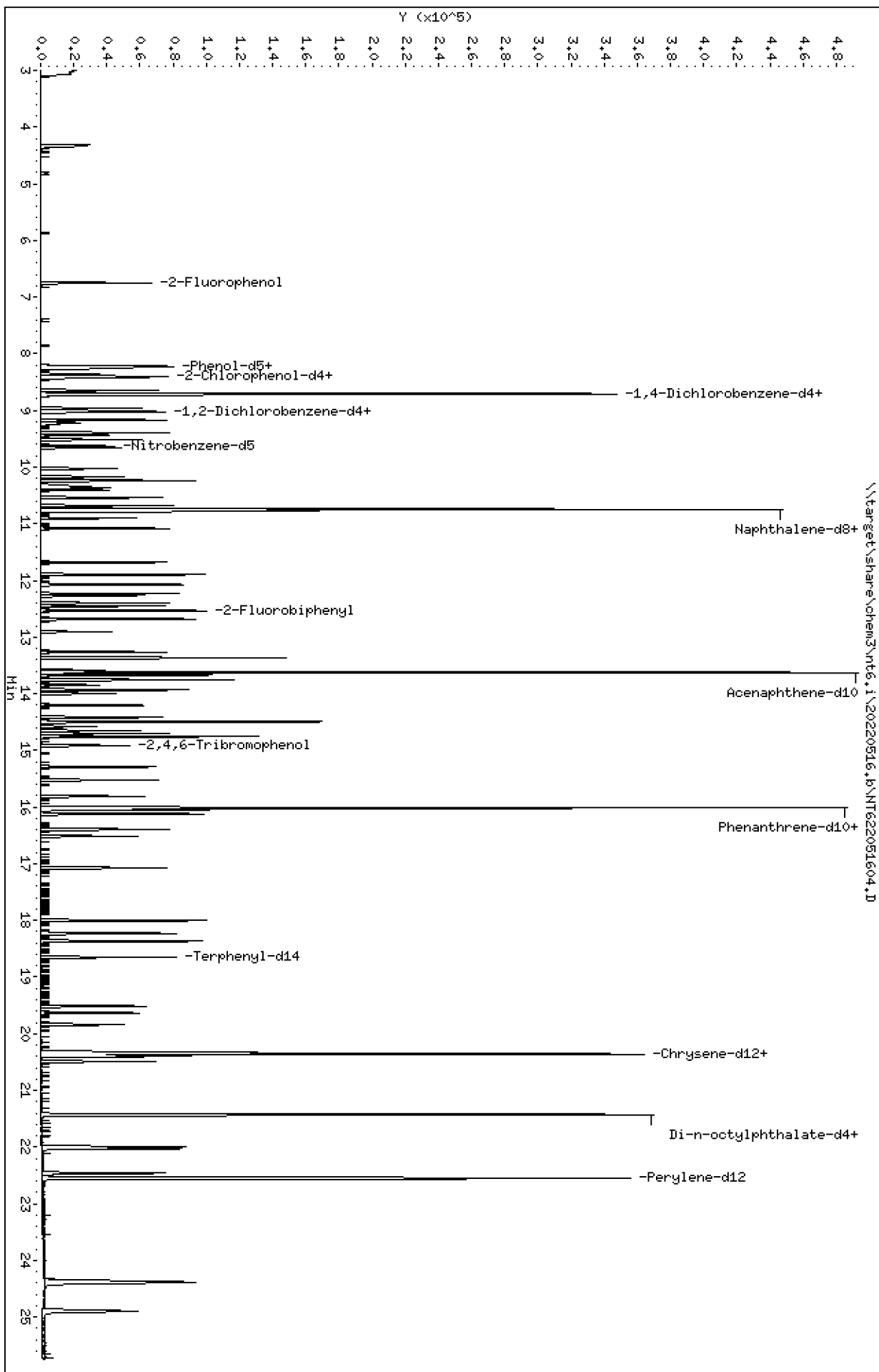
Sample Info: IC6220516,

Column phase: ZB-5msi

Instrument: nt6.1

Operator: JZ

Column diameter: 0.32



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220516.b\NT622051604.D
 Lab Smp Id: SKE0212-CAL2
 Inj Date : 16-MAY-2022 18:52
 Operator : JZ Inst ID: nt6.i
 Smp Info : IC5220516,
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Meth Date : 16-May-2022 23:15 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 4 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALA.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.748	6.748	(0.775)	29229	7.50000	6.594
\$ 2 Phenol-d5	99		8.217	8.217	(0.944)	33970	7.50000	6.699
3 Phenol	94		8.238	8.239	(0.946)	29658	5.00000	5.032
\$ 5 2-Chlorophenol-d4	132		8.398	8.398	(0.964)	30768	7.50000	6.713
4 Bis(2-Chloroethyl)ether	93		8.361	8.361	(0.960)	17740	5.00000	4.988
6 2-Chlorophenol	128		8.425	8.426	(0.967)	25090	5.00000	5.214
7 1,3-Dichlorobenzene	146		8.649	8.650	(0.993)	25571	5.00000	5.114
* 8 1,4-Dichlorobenzene-d4	152		8.708	8.709	(1.000)	82013	20.0000	
9 1,4-Dichlorobenzene	146		8.729	8.730	(1.002)	24726	5.00000	5.070
\$ 10 1,2-Dichlorobenzene-d4	152		9.007	9.008	(1.034)	14490	5.00000	4.418
12 1,2-Dichlorobenzene	146		9.029	9.029	(1.037)	23652	5.00000	5.107
11 Benzyl alcohol	108		8.959	8.960	(1.029)	13081	5.00000	4.752
14 2,2'-oxybis(1-Chloropropane)	45		9.216	9.216	(1.058)	14028	5.00000	5.138
13 2-Methylphenol	108		9.173	9.173	(1.053)	20536	5.00000	5.144
17 Hexachloroethane	117		9.515	9.515	(1.093)	9947	5.00000	5.057
16 N-Nitroso-di-n-propylamine	70		9.435	9.435	(1.083)	13678	5.00000	5.130
15 4-Methylphenol	108		9.397	9.398	(1.079)	22339	5.00000	5.246
\$ 18 Nitrobenzene-d5	82		9.627	9.627	(0.896)	19591	5.00000	4.414
19 Nitrobenzene	77		9.653	9.654	(0.898)	21099	5.00000	5.006
20 Isophorone	82		10.027	10.028	(0.933)	26861	5.00000	5.027
21 2-Nitrophenol	139		10.172	10.172	(0.946)	13240	5.00000	5.077
22 2,4-Dimethylphenol	107		10.241	10.242	(0.953)	25969	5.00000	5.296
23 Bis(2-Chloroethoxy)methane	93		10.401	10.402	(0.968)	18496	5.00000	4.849
24 Benzoic acid	105		10.369	10.370	(0.965)	28857	10.0000	9.221
25 2,4-Dichlorophenol	162		10.535	10.535	(0.980)	20549	5.00000	5.143
26 1,2,4-Trichlorobenzene	180		10.684	10.685	(0.994)	22902	5.00000	5.031
* 27 Naphthalene-d8	136		10.748	10.749	(1.000)	289042	20.0000	
28 Naphthalene	128		10.780	10.781	(1.003)	61189	5.00000	5.037
29 4-Chloroaniline	127		10.903	10.904	(1.014)	23779	5.00000	4.762
30 Hexachlorobutadiene	225		11.080	11.080	(1.031)	14205	5.00000	4.836
31 4-Chloro-3-methylphenol	107		11.683	11.684	(1.087)	20428	5.00000	5.077
32 2-Methylnaphthalene	141		11.897	11.897	(1.107)	32253	5.00000	4.649
33 Hexachlorocyclopentadiene	237		12.271	12.271	(0.901)	14385	5.00000	4.871

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	12.399	12.399	(0.910)	15564	5.00000	5.105
35 2,4,5-Trichlorophenol	196	12.452	12.453	(0.914)	17074	5.00000	5.259
\$ 36 2-Fluorobiphenyl	172	12.532	12.533	(0.920)	46392	5.00000	4.671
37 2-Chloronaphthalene	162	12.682	12.682	(0.931)	40542	5.00000	5.127
38 2-Nitroaniline	65	12.906	12.907	(0.947)	9554	5.00000	4.780
39 Dimethylphthalate	163	13.264	13.265	(0.974)	45003	5.00000	5.201
40 Acenaphthylene	152	13.371	13.371	(0.982)	66507	5.00000	5.188
41 2,6-Dinitrotoluene	165	13.371	13.371	(0.982)	10084	5.00000	5.112
* 42 Acenaphthene-d10	164	13.622	13.622	(1.000)	163263	20.0000	
43 3-Nitroaniline	138	13.579	13.580	(0.997)	9295	5.00000	4.826
44 Acenaphthene	153	13.670	13.670	(1.004)	39072	5.00000	5.140
45 2,4-Dinitrophenol	184	13.750	13.751	(1.009)	7664	10.0000	6.779
46 Dibenzofuran	168	13.932	13.932	(1.023)	54384	5.00000	4.951
47 4-Nitrophenol	109	13.846	13.847	(1.016)	7549	5.00000	5.423
48 2,4-Dinitrotoluene	165	13.996	13.996	(1.027)	13165	5.00000	5.172
50 Diethylphthalate	149	14.412	14.413	(1.058)	42771	5.00000	5.117
49 Fluorene	166	14.493	14.493	(1.064)	44059	5.00000	5.014
51 4-Chlorophenyl-phenylether	204	14.498	14.498	(1.064)	24689	5.00000	5.007
52 4-Nitroaniline	138	14.583	14.584	(1.071)	8422	5.00000	4.835
53 4,6-Dinitro-2-methylphenol	198	14.658	14.659	(0.915)	15251	10.0000	9.757
54 N-Nitrosodiphenylamine	169	14.701	14.701	(0.918)	32494	5.00000	5.251
\$ 55 2,4,6-Tribromophenol	330	14.914	14.915	(1.095)	9850	7.50000	7.091
56 4-Bromophenyl-phenylether	248	15.288	15.289	(0.955)	13515	5.00000	5.040
57 Hexachlorobenzene	284	15.523	15.524	(0.969)	14628	5.00000	5.012
58 Pentachlorophenol	266	15.812	15.812	(0.987)	9922	5.00000	5.089
* 59 Phenanthrene-d10	188	16.015	16.015	(1.000)	285473	20.0000	
60 Phenanthrene	178	16.052	16.053	(1.002)	60192	5.00000	5.115
61 Anthracene	178	16.122	16.122	(1.007)	60713	5.00000	5.158
62 Carbazole	167	16.394	16.393	(1.024)	52296	5.00000	5.169
63 Di-n-butylphthalate	149	17.072	17.073	(1.066)	65544	5.00000	5.173
64 Fluoranthene	202	18.002	18.002	(1.124)	67372	5.00000	5.066
65 Pyrene	202	18.365	18.365	(0.902)	68080	5.00000	5.191
\$ 66 Terphenyl-d14	244	18.648	18.648	(0.916)	46592	5.00000	4.692
67 Butylbenzylphthalate	149	19.513	19.514	(0.959)	25120	5.00000	4.892
68 Benzo(a)anthracene	228	20.325	20.325	(0.998)	57141	5.00000	4.933
* 69 Chrysene-d12	240	20.357	20.357	(1.000)	208902	20.0000	
70 3,3'-Dichlorobenzidine	252	20.320	20.320	(0.998)	17919	5.00000	5.165
71 Chrysene	228	20.394	20.395	(1.002)	52470	5.00000	4.931
72 bis(2-Ethylhexyl)phthalate	149	20.491	20.491	(0.956)	33167	5.00000	5.095
* 134 Di-n-octylphthalate-d4	153	21.425	21.426	(1.000)	281399	20.0000	
73 Di-n-octylphthalate	149	21.436	21.436	(1.000)	61062	5.00000	5.199
74 Benzo(b)fluoranthene	252	21.991	21.992	(0.975)	54303	5.00000	4.771
75 Benzo(k)fluoranthene	252	22.023	22.024	(0.977)	60150	5.00000	5.274
187 Total Benzofluoranthenes	252	21.991	21.992	(0.975)	108554	10.0000	10.02 (M)
76 Benzo(a)pyrene	252	22.461	22.462	(0.996)	52556	5.00000	4.920
* 77 Perylene-d12	264	22.552	22.553	(1.000)	230563	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	24.373	24.374	(1.081)	75801	5.00000	4.855
79 Dibenzo(a,h)anthracene	278	24.395	24.395	(1.082)	63204	5.00000	4.840
80 Benzo(g,h,i)perylene	276	24.897	24.897	(1.104)	66258	5.00000	4.948
90 N-Nitrosodimethylamine	74	4.339	4.340	(0.498)	10141	5.00000	4.900
103 Pyridine	79	4.318	4.317	(0.496)	18694	5.00000	4.799
91 Aniline	93	8.259	8.260	(0.948)	27786	5.00000	4.585
105 1-methylnaphthalene	141	12.073	12.074	(1.123)	30503	5.00000	4.659
93 Benzidine	184	18.237	18.237	(0.896)	35239	10.0000	10.01

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/mL)	ON-COL (ug/mL)
111 Azobenzene (1,2-DP-Hydrazine)	77	14.754	14.755	(0.921)	38081	5.00000	5.239
144 alpha-Terpineol	59	10.775	10.776	(1.002)	12627	5.00000	5.053
133 Butylatedhydroxytoluene	205	13.755	13.756	(1.010)	40892	5.00000	4.719
115 Tributyl Phosphate	99	14.760	14.760	(0.922)	38925	5.00000	4.748
116 Dibutyl Phenyl Phosphate	175	16.511	16.512	(1.031)	28601	5.00000	4.677
117 Butyl Diphenyl Phosphate	94	18.221	18.221	(0.895)	7711	5.00000	4.562
118 Triphenyl Phosphate	326	19.839	19.839	(0.975)	8993	5.00000	4.355
120 2,3,4,6-Tetrachlorophenol	232	14.204	14.205	(1.043)	12735	5.00000	5.131
151 1,2,4,5-Tetrachlorobenzene	216	12.239	12.239	(0.898)	23191	5.00000	5.175

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 16-MAY-2022
 Lab File ID: NT622051604.D Calibration Time: 17:11
 Lab Smp Id: SKE0212-CAL2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Misc Info: 22-

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	71723	35862	143446	82013	14.35
27 Naphthalene-d8	255203	127602	510406	289042	13.26
42 Acenaphthene-d10	144799	72400	289598	163263	12.75
59 Phenanthrene-d10	257295	128648	514590	285473	10.95
69 Chrysene-d12	195882	97941	391764	208902	6.65
134 Di-n-octylphthala	272032	136016	544064	281399	3.44
77 Perylene-d12	222542	111271	445084	230563	3.60

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.71	8.21	9.21	8.71	-0.01
27 Naphthalene-d8	10.75	10.25	11.25	10.75	-0.01
42 Acenaphthene-d10	13.62	13.12	14.12	13.62	-0.01
59 Phenanthrene-d10	16.02	15.52	16.52	16.02	-0.01
69 Chrysene-d12	20.36	19.86	20.86	20.36	-0.03
134 Di-n-octylphthala	21.43	20.93	21.93	21.43	-0.03
77 Perylene-d12	22.55	22.05	23.05	22.55	-0.01

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

REVIEW SUMMARY FOR FILE - NT622051604.D

Lab ID: SKE0212-CAL2

nt6.i, SW84620220516.m, 16-MAY-2022 18:52

RT CO-ELUTION COMPOUNDS

13.371 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICALA.sub = 0.0100

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

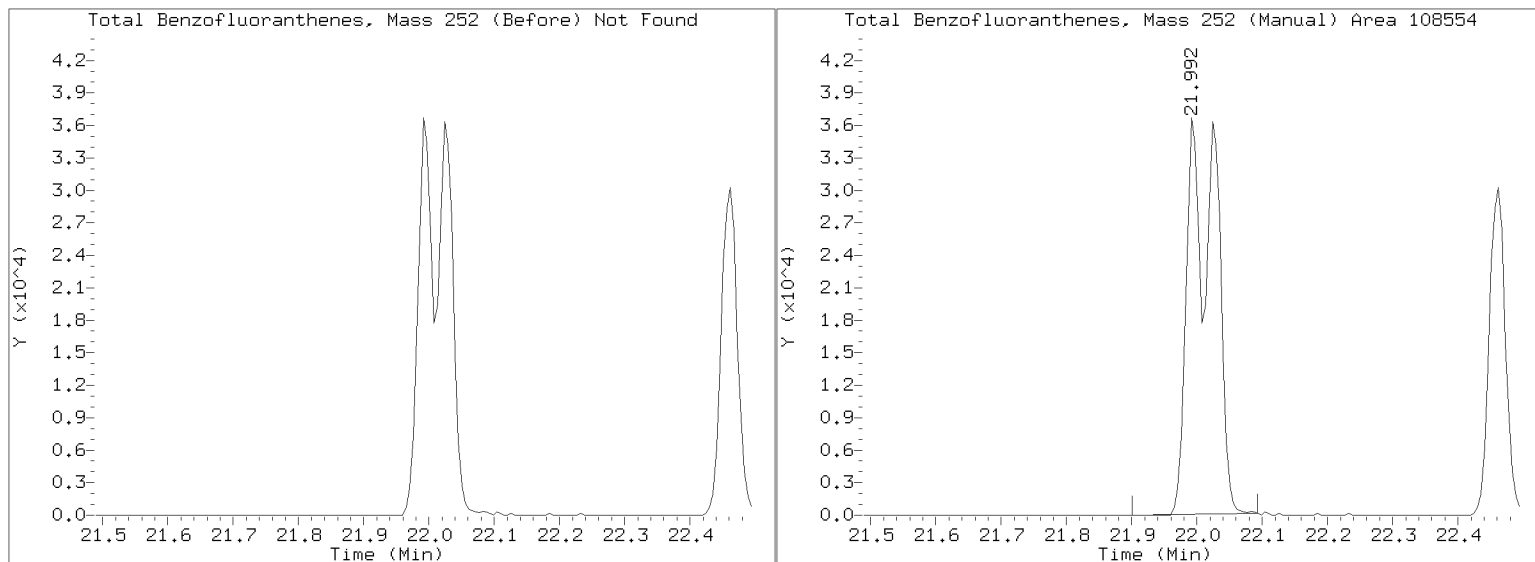
Quant Ion Manual Peak Adjustment Report

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Injection Date: 16-MAY-2022 18:52

Lab ID: SKE0212-CAL2 Client ID:

Report Date: 05/16/2022 23:18



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Date: 16-May-2022 19:25

Client ID:

Sample Info: IC10220516,

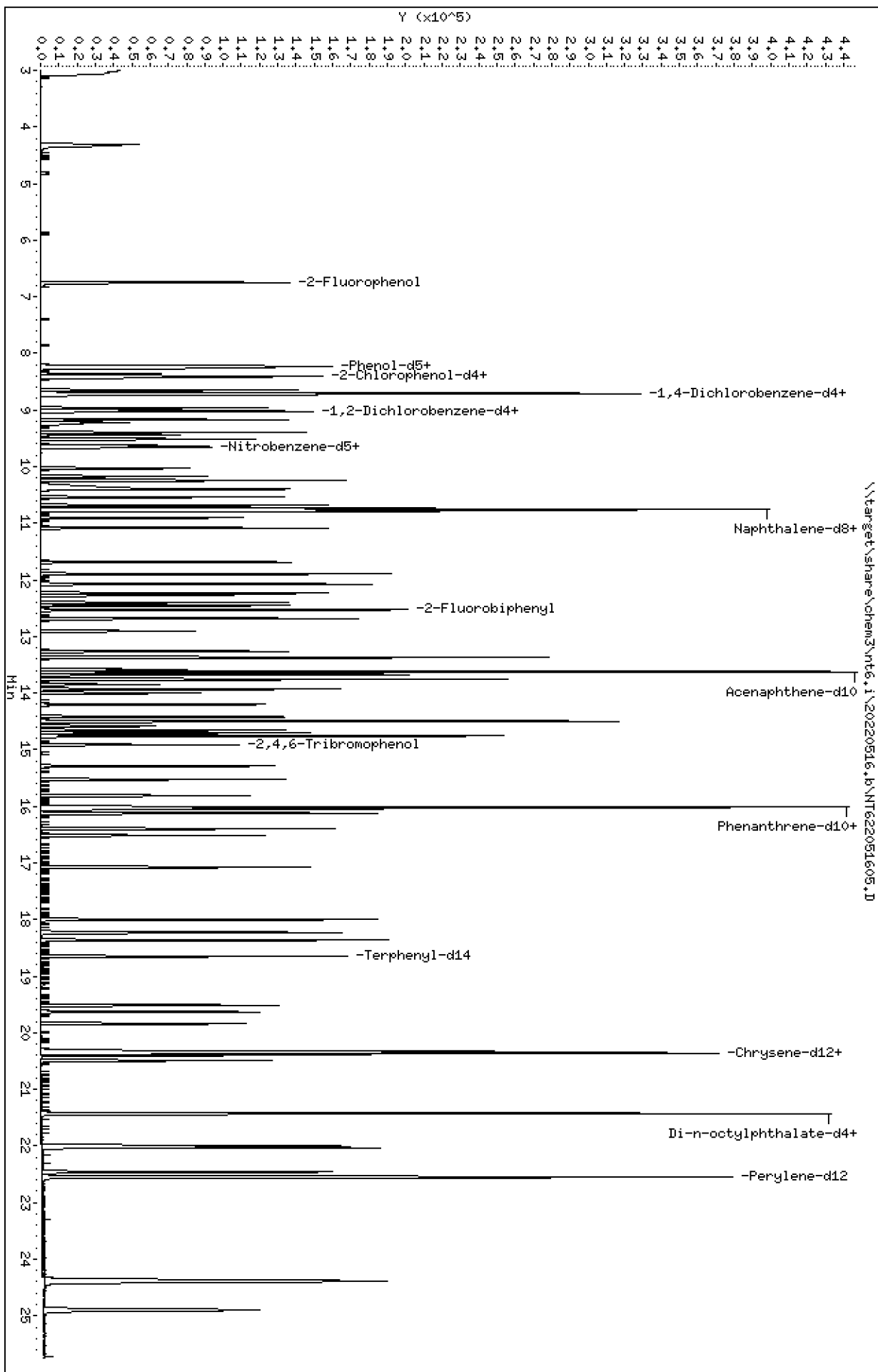
Column phase: ZB-5msi

Instrument: nt6.1

Operator: JZ

Column diameter: 0.32

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220516.b\NT622051605.D
 Lab Smp Id: SKE0212-CAL3
 Inj Date : 16-MAY-2022 19:25
 Operator : JZ Inst ID: nt6.i
 Smp Info : IC10220516,
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Meth Date : 16-May-2022 23:15 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALA.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.751	6.748	(0.775)	59885	15.0000	13.95
\$ 2 Phenol-d5	99		8.220	8.217	(0.944)	68458	15.0000	13.94
3 Phenol	94		8.242	8.239	(0.947)	56026	10.0000	9.816
\$ 5 2-Chlorophenol-d4	132		8.402	8.398	(0.965)	63077	15.0000	14.21
4 Bis(2-Chloroethyl)ether	93		8.364	8.361	(0.961)	34309	10.0000	9.961
6 2-Chlorophenol	128		8.423	8.426	(0.967)	46095	10.0000	9.891
7 1,3-Dichlorobenzene	146		8.648	8.650	(0.993)	48185	10.0000	9.951
* 8 1,4-Dichlorobenzene-d4	152		8.706	8.709	(1.000)	79426	20.0000	
9 1,4-Dichlorobenzene	146		8.733	8.730	(1.003)	48093	10.0000	10.18
\$ 10 1,2-Dichlorobenzene-d4	152		9.005	9.008	(1.034)	30181	10.0000	9.501
12 1,2-Dichlorobenzene	146		9.027	9.029	(1.037)	45369	10.0000	10.12
11 Benzyl alcohol	108		8.963	8.960	(1.029)	25886	10.0000	9.710
14 2,2'-oxybis(1-Chloropropane)	45		9.219	9.216	(1.059)	25541	10.0000	9.659
13 2-Methylphenol	108		9.171	9.173	(1.053)	38338	10.0000	9.917
17 Hexachloroethane	117		9.513	9.515	(1.093)	19749	10.0000	10.37
16 N-Nitroso-di-n-propylamine	70		9.433	9.435	(1.083)	24698	10.0000	9.564
15 4-Methylphenol	108		9.395	9.398	(1.079)	40527	10.0000	9.828
\$ 18 Nitrobenzene-d5	82		9.630	9.627	(0.896)	40007	10.0000	9.703
19 Nitrobenzene	77		9.657	9.654	(0.899)	39256	10.0000	10.03
20 Isophorone	82		10.031	10.028	(0.933)	49480	10.0000	9.968
21 2-Nitrophenol	139		10.170	10.172	(0.946)	24855	10.0000	10.26
22 2,4-Dimethylphenol	107		10.244	10.242	(0.953)	46339	10.0000	10.17
23 Bis(2-Chloroethoxy)methane	93		10.405	10.402	(0.968)	35491	10.0000	10.02
24 Benzoic acid	105		10.399	10.370	(0.968)	58292	20.0000	20.05
25 2,4-Dichlorophenol	162		10.538	10.535	(0.981)	37350	10.0000	10.06
26 1,2,4-Trichlorobenzene	180		10.682	10.685	(0.994)	42685	10.0000	10.09
* 27 Naphthalene-d8	136		10.747	10.749	(1.000)	268502	20.0000	
28 Naphthalene	128		10.779	10.781	(1.003)	115320	10.0000	10.22
29 4-Chloroaniline	127		10.907	10.904	(1.015)	45503	10.0000	9.810
30 Hexachlorobutadiene	225		11.083	11.080	(1.031)	27551	10.0000	10.10
31 4-Chloro-3-methylphenol	107		11.687	11.684	(1.087)	36637	10.0000	9.801
32 2-Methylnaphthalene	141		11.895	11.897	(1.107)	64522	10.0000	10.01
33 Hexachlorocyclopentadiene	237		12.274	12.271	(0.901)	27296	10.0000	9.732

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	12.402	12.399	(0.910)	29697	10.0000	10.26
35 2,4,5-Trichlorophenol	196	12.456	12.453	(0.914)	30625	10.0000	9.931
\$ 36 2-Fluorobiphenyl	172	12.530	12.533	(0.920)	89949	10.0000	9.535
37 2-Chloronaphthalene	162	12.685	12.682	(0.931)	74566	10.0000	9.929
38 2-Nitroaniline	65	12.904	12.907	(0.947)	18043	10.0000	9.504
39 Dimethylphthalate	163	13.268	13.265	(0.974)	80574	10.0000	9.804
40 Acenaphthylene	152	13.369	13.371	(0.981)	123732	10.0000	10.16
41 2,6-Dinitrotoluene	165	13.369	13.371	(0.981)	18501	10.0000	9.875
* 42 Acenaphthene-d10	164	13.625	13.622	(1.000)	155071	20.0000	
43 3-Nitroaniline	138	13.583	13.580	(0.997)	17896	10.0000	9.782
44 Acenaphthene	153	13.673	13.670	(1.004)	72211	10.0000	10.00
45 2,4-Dinitrophenol	184	13.748	13.751	(1.009)	19575	20.0000	17.97
46 Dibenzofuran	168	13.930	13.932	(1.022)	105179	10.0000	10.08
47 4-Nitrophenol	109	13.850	13.847	(1.016)	13978	10.0000	10.57
48 2,4-Dinitrotoluene	165	13.999	13.996	(1.027)	24166	10.0000	9.994
50 Diethylphthalate	149	14.421	14.413	(1.058)	78881	10.0000	9.936
49 Fluorene	166	14.496	14.493	(1.064)	83573	10.0000	10.01
51 4-Chlorophenyl-phenylether	204	14.501	14.498	(1.064)	46228	10.0000	9.870
52 4-Nitroaniline	138	14.587	14.584	(1.071)	16914	10.0000	10.22
53 4,6-Dinitro-2-methylphenol	198	14.662	14.659	(0.915)	30461	20.0000	20.44
54 N-Nitrosodiphenylamine	169	14.704	14.701	(0.918)	58177	10.0000	9.860
\$ 55 2,4,6-Tribromophenol	330	14.918	14.915	(1.095)	18380	15.0000	13.93
56 4-Bromophenyl-phenylether	248	15.292	15.289	(0.955)	25188	10.0000	9.850
57 Hexachlorobenzene	284	15.527	15.524	(0.969)	27528	10.0000	9.892
58 Pentachlorophenol	266	15.815	15.812	(0.987)	19291	10.0000	10.38
* 59 Phenanthrene-d10	188	16.018	16.015	(1.000)	272217	20.0000	
60 Phenanthrene	178	16.050	16.053	(1.002)	113987	10.0000	10.16
61 Anthracene	178	16.125	16.122	(1.007)	115109	10.0000	10.26
62 Carbazole	167	16.397	16.393	(1.024)	99436	10.0000	10.31
63 Di-n-butylphthalate	149	17.076	17.073	(1.066)	124822	10.0000	10.33
64 Fluoranthene	202	18.005	18.002	(1.124)	128763	10.0000	10.15
65 Pyrene	202	18.363	18.365	(0.902)	129593	10.0000	10.04
\$ 66 Terphenyl-d14	244	18.646	18.648	(0.916)	96026	10.0000	9.823
67 Butylbenzylphthalate	149	19.517	19.514	(0.959)	50879	10.0000	10.07
68 Benzo(a)anthracene	228	20.328	20.325	(0.999)	113816	10.0000	9.983
* 69 Chrysene-d12	240	20.355	20.357	(1.000)	205628	20.0000	
70 3,3'-Dichlorobenzidine	252	20.323	20.320	(0.998)	35941	10.0000	10.52
71 Chrysene	228	20.398	20.395	(1.002)	104472	10.0000	9.975
72 bis(2-Ethylhexyl)phthalate	149	20.489	20.491	(0.956)	66770	10.0000	10.21
* 134 Di-n-octylphthalate-d4	153	21.429	21.426	(1.000)	282768	20.0000	
73 Di-n-octylphthalate	149	21.434	21.436	(1.000)	118652	10.0000	10.05
74 Benzo(b)fluoranthene	252	21.995	21.992	(0.975)	114299	10.0000	9.770
75 Benzo(k)fluoranthene	252	22.027	22.024	(0.977)	117375	10.0000	10.01
187 Total Benzofluoranthenes	252	22.027	21.992	(0.977)	220956	20.0000	19.85
76 Benzo(a)pyrene	252	22.460	22.462	(0.996)	106259	10.0000	9.679
* 77 Perylene-d12	264	22.550	22.553	(1.000)	236979	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	24.377	24.374	(1.081)	156477	10.0000	9.751
79 Dibenzo(a,h)anthracene	278	24.398	24.395	(1.082)	131355	10.0000	9.786
80 Benzo(g,h,i)perylene	276	24.900	24.897	(1.104)	134500	10.0000	9.772
90 N-Nitrosodimethylamine	74	4.337	4.340	(0.498)	19903	10.0000	9.930
103 Pyridine	79	4.305	4.317	(0.495)	36193	10.0000	9.594
91 Aniline	93	8.258	8.260	(0.948)	56524	10.0000	9.630
105 1-methylnaphthalene	141	12.071	12.074	(1.123)	60114	10.0000	9.883
93 Benzidine	184	18.235	18.237	(0.896)	64026	20.0000	18.47

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
111 Azobenzene (1,2-DP-Hydrazine)	77		14.758	14.755	(0.921)	71338	10.0000	10.29
144 alpha-Terpineol	59		10.779	10.776	(1.003)	23346	10.0000	10.06
133 Butylatedhydroxytoluene	205		13.759	13.756	(1.010)	82318	10.0000	10.00
115 Tributyl Phosphate	99		14.763	14.760	(0.922)	79233	10.0000	10.14
116 Dibutyl Phenyl Phosphate	175		16.515	16.512	(1.031)	57445	10.0000	9.852
117 Butyl Diphenyl Phosphate	94		18.219	18.221	(0.895)	16324	10.0000	9.811
118 Triphenyl Phosphate	326		19.842	19.839	(0.975)	19945	10.0000	9.813
120 2,3,4,6-Tetrachlorophenol	232		14.202	14.205	(1.042)	23444	10.0000	9.944
151 1,2,4,5-Tetrachlorobenzene	216		12.237	12.239	(0.898)	42177	10.0000	9.910

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 16-MAY-2022
 Lab File ID: NT622051605.D Calibration Time: 17:11
 Lab Smp Id: SKE0212-CAL3
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Misc Info: 22-

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	71723	35862	143446	79426	10.74
27 Naphthalene-d8	255203	127602	510406	268502	5.21
42 Acenaphthene-d10	144799	72400	289598	155071	7.09
59 Phenanthrene-d10	257295	128648	514590	272217	5.80
69 Chrysene-d12	195882	97941	391764	205628	4.98
134 Di-n-octylphthala	272032	136016	544064	282768	3.95
77 Perylene-d12	222542	111271	445084	236979	6.49

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.71	8.21	9.21	8.71	-0.04
27 Naphthalene-d8	10.75	10.25	11.25	10.75	-0.03
42 Acenaphthene-d10	13.62	13.12	14.12	13.63	0.02
59 Phenanthrene-d10	16.02	15.52	16.52	16.02	0.01
69 Chrysene-d12	20.36	19.86	20.86	20.36	-0.04
134 Di-n-octylphthala	21.43	20.93	21.93	21.43	-0.01
77 Perylene-d12	22.55	22.05	23.05	22.55	-0.01

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

REVIEW SUMMARY FOR FILE - NT622051605.D

Lab ID: SKE0212-CAL3

nt6.i, SW84620220516.m, 16-MAY-2022 19:25

RT CO-ELUTION COMPOUNDS

13.370 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICALA.sub = 0.0100

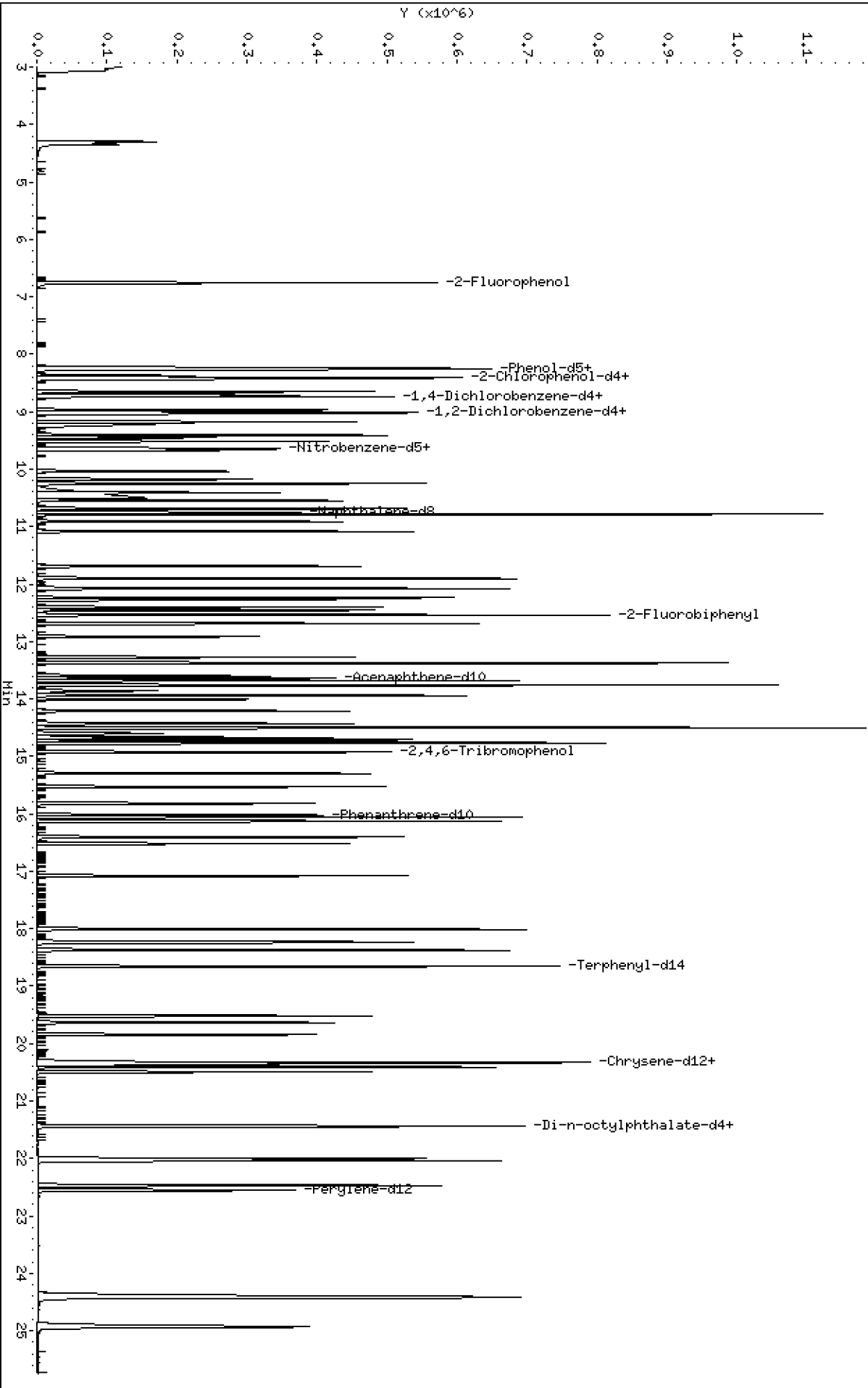
* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt6,1\20220516,6\N1622051606.D
Date: 16-May-2022 19:59
Client ID:
Sample Info: IC40220516,

Column phase: ZB-5msi

Instrument: nt6,1
Operator: JZ
Column diameter: 0.32

\\target\share\chem3\nt6,1\20220516,6\N1622051606.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220516.b\NT622051606.D
 Lab Smp Id: SKE0212-CAL5
 Inj Date : 16-MAY-2022 19:59
 Operator : JZ Inst ID: nt6.i
 Smp Info : IC40220516,
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Meth Date : 16-May-2022 23:15 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 6 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALA.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 1 2-Fluorophenol	112	6.754	6.748 (0.776)		256857	60.0000	64.34
\$ 2 Phenol-d5	99	8.239	8.217 (0.946)		292668	60.0000	64.08
3 Phenol	94	8.255	8.239 (0.948)		191085	40.0000	36.00
\$ 5 2-Chlorophenol-d4	132	8.410	8.398 (0.966)		261801	60.0000	63.42
4 Bis(2-Chloroethyl)ether	93	8.372	8.361 (0.961)		122955	40.0000	38.38
6 2-Chlorophenol	128	8.431	8.426 (0.968)		154321	40.0000	35.61
7 1,3-Dichlorobenzene	146	8.650	8.650 (0.993)		170233	40.0000	37.80
* 8 1,4-Dichlorobenzene-d4	152	8.709	8.709 (1.000)		73865	20.0000	
9 1,4-Dichlorobenzene	146	8.736	8.730 (1.003)		166754	40.0000	37.96
\$ 10 1,2-Dichlorobenzene-d4	152	9.008	9.008 (1.034)		123985	40.0000	41.97
12 1,2-Dichlorobenzene	146	9.029	9.029 (1.037)		157820	40.0000	37.84
11 Benzyl alcohol	108	8.971	8.960 (1.030)		98836	40.0000	39.87
14 2,2'-oxybis(1-Chloropropane)	45	9.222	9.216 (1.059)		93319	40.0000	37.95
13 2-Methylphenol	108	9.179	9.173 (1.054)		129399	40.0000	35.99
17 Hexachloroethane	117	9.515	9.515 (1.093)		67544	40.0000	38.13
16 N-Nitroso-di-n-propylamine	70	9.451	9.435 (1.085)		91923	40.0000	38.28
15 4-Methylphenol	108	9.409	9.398 (1.080)		139641	40.0000	36.41
\$ 18 Nitrobenzene-d5	82	9.638	9.627 (0.896)		168586	40.0000	42.33
19 Nitrobenzene	77	9.665	9.654 (0.899)		141616	40.0000	37.45
20 Isophorone	82	10.039	10.028 (0.933)		182759	40.0000	38.12
21 2-Nitrophenol	139	10.172	10.172 (0.946)		85972	40.0000	36.74
22 2,4-Dimethylphenol	107	10.247	10.242 (0.953)		156476	40.0000	35.57
23 Bis(2-Chloroethoxy)methane	93	10.407	10.402 (0.968)		129945	40.0000	37.97
24 Benzoic acid	105	10.498	10.370 (0.976)		220934	80.0000	78.69
25 2,4-Dichlorophenol	162	10.546	10.535 (0.981)		129253	40.0000	36.06
26 1,2,4-Trichlorobenzene	180	10.691	10.685 (0.994)		151433	40.0000	37.07
* 27 Naphthalene-d8	136	10.755	10.749 (1.000)		259337	20.0000	
28 Naphthalene	128	10.787	10.781 (1.003)		404382	40.0000	37.10
29 4-Chloroaniline	127	10.909	10.904 (1.014)		172500	40.0000	38.50
30 Hexachlorobutadiene	225	11.086	11.080 (1.031)		98616	40.0000	37.42
31 4-Chloro-3-methylphenol	107	11.689	11.684 (1.087)		131312	40.0000	36.37
32 2-Methylnaphthalene	141	11.903	11.897 (1.107)		235679	40.0000	37.86
33 Hexachlorocyclopentadiene	237	12.277	12.271 (0.901)		111312	40.0000	40.94

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	12.405	12.399	(0.910)	104013	40.0000	37.05
35 2,4,5-Trichlorophenol	196	12.458	12.453	(0.914)	110414	40.0000	36.94
\$ 36 2-Fluorobiphenyl	172	12.539	12.533	(0.920)	379860	40.0000	41.54
37 2-Chloronaphthalene	162	12.688	12.682	(0.931)	273027	40.0000	37.50
38 2-Nitroaniline	65	12.918	12.907	(0.948)	70757	40.0000	38.45
39 Dimethylphthalate	163	13.276	13.265	(0.974)	298378	40.0000	37.45
40 Acenaphthylene	152	13.377	13.371	(0.982)	439897	40.0000	37.27
41 2,6-Dinitrotoluene	165	13.377	13.371	(0.982)	71242	40.0000	39.23
* 42 Acenaphthene-d10	164	13.628	13.622	(1.000)	150319	20.0000	
43 3-Nitroaniline	138	13.596	13.580	(0.998)	69937	40.0000	39.43
44 Acenaphthene	153	13.676	13.670	(1.004)	261020	40.0000	37.30
45 2,4-Dinitrophenol	184	13.762	13.751	(1.010)	90380	80.0000	78.04
46 Dibenzofuran	168	13.938	13.932	(1.023)	382744	40.0000	37.84
47 4-Nitrophenol	109	13.858	13.847	(1.017)	49837	40.0000	38.88
48 2,4-Dinitrotoluene	165	14.013	13.996	(1.028)	92197	40.0000	39.34
50 Diethylphthalate	149	14.429	14.413	(1.059)	288777	40.0000	37.53
49 Fluorene	166	14.499	14.493	(1.064)	304077	40.0000	37.58
51 4-Chlorophenyl-phenylether	204	14.504	14.498	(1.064)	169487	40.0000	37.33
52 4-Nitroaniline	138	14.606	14.584	(1.072)	61388	40.0000	38.28
53 4,6-Dinitro-2-methylphenol	198	14.675	14.659	(0.916)	114606	80.0000	77.44
54 N-Nitrosodiphenylamine	169	14.712	14.701	(0.918)	216185	40.0000	36.90
\$ 55 2,4,6-Tribromophenol	330	14.926	14.915	(1.095)	84692	60.0000	66.22
56 4-Bromophenyl-phenylether	248	15.295	15.289	(0.955)	95358	40.0000	37.56
57 Hexachlorobenzene	284	15.530	15.524	(0.969)	101668	40.0000	36.79
58 Pentachlorophenol	266	15.823	15.812	(0.988)	68052	40.0000	36.87
* 59 Phenanthrene-d10	188	16.021	16.015	(1.000)	270288	20.0000	
60 Phenanthrene	178	16.058	16.053	(1.002)	404668	40.0000	36.32
61 Anthracene	178	16.128	16.122	(1.007)	411842	40.0000	36.96
62 Carbazole	167	16.405	16.393	(1.024)	339144	40.0000	35.40
63 Di-n-butylphthalate	149	17.078	17.073	(1.066)	439430	40.0000	36.63
64 Fluoranthene	202	18.008	18.002	(1.124)	461159	40.0000	36.62
65 Pyrene	202	18.371	18.365	(0.902)	451436	40.0000	38.05
\$ 66 Terphenyl-d14	244	18.654	18.648	(0.916)	400862	40.0000	44.63
67 Butylbenzylphthalate	149	19.519	19.514	(0.959)	183828	40.0000	39.58
68 Benzo(a)anthracene	228	20.336	20.325	(0.999)	388204	40.0000	37.05
* 69 Chrysene-d12	240	20.363	20.357	(1.000)	188950	20.0000	
70 3,3'-Dichlorobenzidine	252	20.326	20.320	(0.998)	103846	40.0000	33.09
71 Chrysene	228	20.406	20.395	(1.002)	355941	40.0000	36.98
72 bis(2-Ethylhexyl)phthalate	149	20.491	20.491	(0.956)	233976	40.0000	38.24
* 134 Di-n-octylphthalate-d4	153	21.431	21.426	(1.000)	264477	20.0000	
73 Di-n-octylphthalate	149	21.442	21.436	(1.000)	410414	40.0000	37.18
74 Benzo(b)fluoranthene	252	22.003	21.992	(0.976)	392489	40.0000	36.48
75 Benzo(k)fluoranthene	252	22.040	22.024	(0.977)	422144	40.0000	39.16
187 Total Benzofluoranthenes	252	22.040	21.992	(0.977)	775804	80.0000	75.78
76 Benzo(a)pyrene	252	22.473	22.462	(0.996)	384750	40.0000	38.11
* 77 Perylene-d12	264	22.553	22.553	(1.000)	217916	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	24.396	24.374	(1.082)	568339	40.0000	38.52
79 Dibenzo(a,h)anthracene	278	24.422	24.395	(1.083)	477242	40.0000	38.66
80 Benzo(g,h,i)perylene	276	24.935	24.897	(1.106)	490037	40.0000	38.72
90 N-Nitrosodimethylamine	74	4.345	4.340	(0.499)	73775	40.0000	39.58
103 Pyridine	79	4.303	4.317	(0.494)	135155	40.0000	38.52
91 Aniline	93	8.266	8.260	(0.949)	210567	40.0000	38.57
105 1-methylnaphthalene	141	12.079	12.074	(1.123)	228341	40.0000	38.87
93 Benzidine	184	18.243	18.237	(0.896)	262392	80.0000	82.37

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
111 Azobenzene (1,2-DP-Hydrazine)	77		14.766	14.755	(0.922)	249901	40.0000	36.32
144 alpha-Terpineol	59		10.787	10.776	(1.003)	85144	40.0000	37.98
133 Butylatedhydroxytoluene	205		13.762	13.756	(1.010)	290680	40.0000	36.44
115 Tributyl Phosphate	99		14.771	14.760	(0.922)	279698	40.0000	36.03
116 Dibutyl Phenyl Phosphate	175		16.518	16.512	(1.031)	209994	40.0000	36.27
117 Butyl Diphenyl Phosphate	94		18.227	18.221	(0.895)	59945	40.0000	39.21
118 Triphenyl Phosphate	326		19.845	19.839	(0.975)	70483	40.0000	37.74
120 2,3,4,6-Tetrachlorophenol	232		14.210	14.205	(1.043)	84287	40.0000	36.88
151 1,2,4,5-Tetrachlorobenzene	216		12.239	12.239	(0.898)	155942	40.0000	37.80

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 16-MAY-2022
 Lab File ID: NT622051606.D Calibration Time: 17:11
 Lab Smp Id: SKE0212-CAL5
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Misc Info: 22-

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	71723	35862	143446	73865	2.99
27 Naphthalene-d8	255203	127602	510406	259337	1.62
42 Acenaphthene-d10	144799	72400	289598	150319	3.81
59 Phenanthrene-d10	257295	128648	514590	270288	5.05
69 Chrysene-d12	195882	97941	391764	188950	-3.54
134 Di-n-octylphthala	272032	136016	544064	264477	-2.78
77 Perylene-d12	222542	111271	445084	217916	-2.08

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.71	8.21	9.21	8.71	-0.00
27 Naphthalene-d8	10.75	10.25	11.25	10.76	0.05
42 Acenaphthene-d10	13.62	13.12	14.12	13.63	0.04
59 Phenanthrene-d10	16.02	15.52	16.52	16.02	0.03
69 Chrysene-d12	20.36	19.86	20.86	20.36	-0.00
134 Di-n-octylphthala	21.43	20.93	21.93	21.43	-0.00
77 Perylene-d12	22.55	22.05	23.05	22.55	-0.00

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

REVIEW SUMMARY FOR FILE - NT622051606.D

Lab ID: SKE0212-CAL5

nt6.i, SW84620220516.m, 16-MAY-2022 19:59

RT	CO-ELUTION COMPOUNDS
13.762	Butylatedhydroxytoluene and 2,4-Dinitrophenol
13.378	Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICALA.sub = 0.0100

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

Data File: \\target\share\chem3\nt6.1\20220516.b\NT622051607.D

Date: 16-May-2022 20:33

Client ID:

Sample Info: IC60220516,

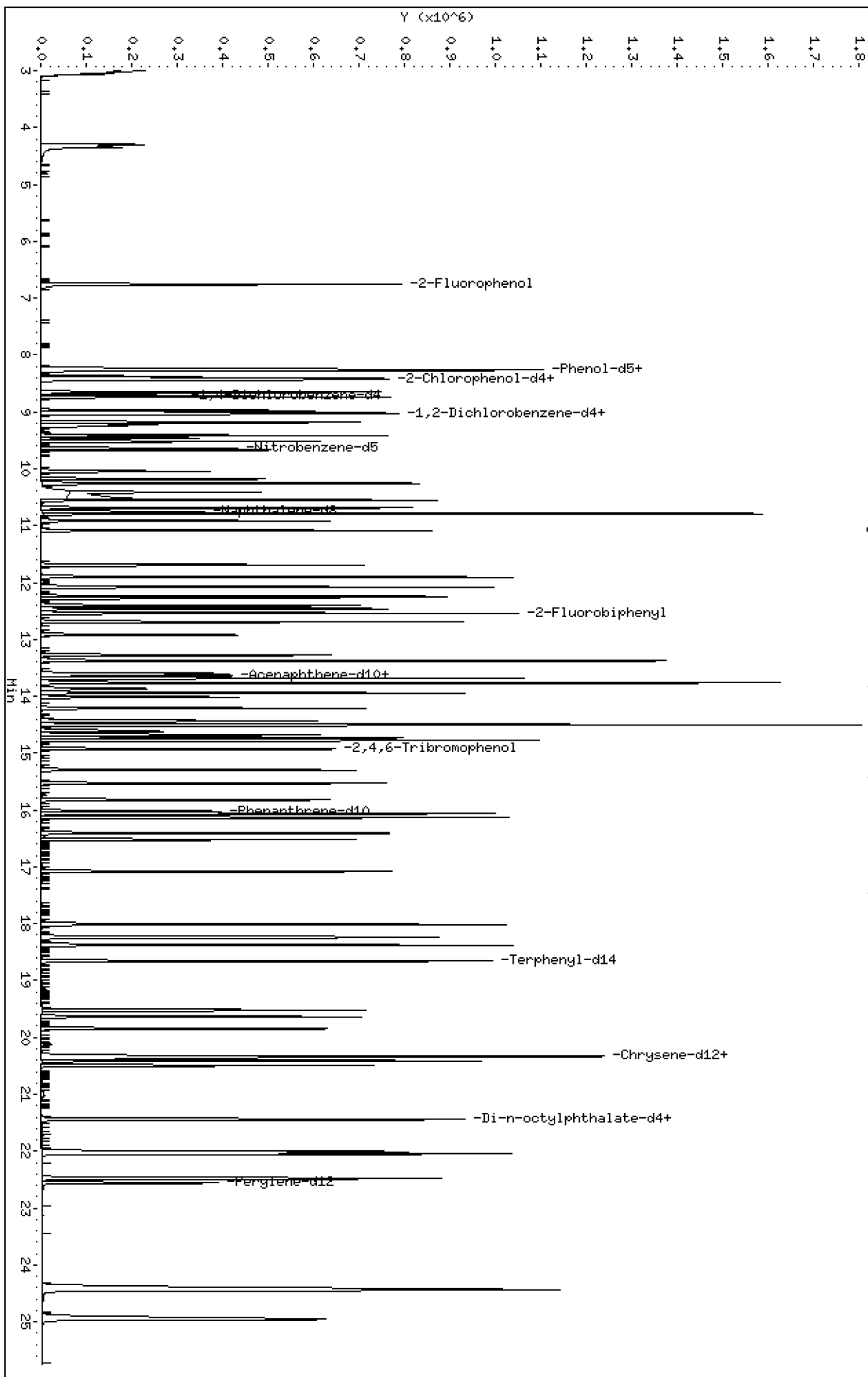
Column phase: ZB-5msi

Instrument: nt6.1

Operator: JZ

Column diameter: 0.32

\\target\share\chem3\nt6.1\20220516.b\NT622051607.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220516.b\NT622051607.D
 Lab Smp Id: SKE0212-CAL6
 Inj Date : 16-MAY-2022 20:33
 Operator : JZ Inst ID: nt6.i
 Smp Info : IC60220516,
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Meth Date : 16-May-2022 23:15 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 7 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALA.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.760	6.748	(0.776)	356969	90.0000	88.78
\$ 2 Phenol-d5	99		8.250	8.217	(0.947)	403596	90.0000	87.75
3 Phenol	94		8.266	8.239	(0.949)	307405	60.0000	57.50
\$ 5 2-Chlorophenol-d4	132		8.410	8.398	(0.966)	358027	90.0000	86.12
4 Bis(2-Chloroethyl)ether	93		8.378	8.361	(0.962)	192021	60.0000	59.52
6 2-Chlorophenol	128		8.437	8.426	(0.969)	248378	60.0000	56.90
7 1,3-Dichlorobenzene	146		8.656	8.650	(0.994)	265685	60.0000	58.58
* 8 1,4-Dichlorobenzene-d4	152		8.709	8.709	(1.000)	74390	20.0000	
9 1,4-Dichlorobenzene	146		8.736	8.730	(1.003)	258641	60.0000	58.47
\$ 10 1,2-Dichlorobenzene-d4	152		9.014	9.008	(1.035)	173728	60.0000	58.39
12 1,2-Dichlorobenzene	146		9.035	9.029	(1.037)	244772	60.0000	58.27
11 Benzyl alcohol	108		8.982	8.960	(1.031)	151815	60.0000	60.80
14 2,2'-oxybis(1-Chloropropane)	45		9.227	9.216	(1.059)	144672	60.0000	58.41
13 2-Methylphenol	108		9.185	9.173	(1.055)	206201	60.0000	56.95
17 Hexachloroethane	117		9.516	9.515	(1.093)	102018	60.0000	57.18
16 N-Nitroso-di-n-propylamine	70		9.457	9.435	(1.086)	139672	60.0000	57.75
15 4-Methylphenol	108		9.420	9.398	(1.082)	222492	60.0000	57.61
\$ 18 Nitrobenzene-d5	82		9.644	9.627	(0.897)	227589	60.0000	57.72
19 Nitrobenzene	77		9.671	9.654	(0.899)	215084	60.0000	57.44
20 Isophorone	82		10.050	10.028	(0.934)	277526	60.0000	58.46
21 2-Nitrophenol	139		10.178	10.172	(0.946)	137801	60.0000	59.48
22 2,4-Dimethylphenol	107		10.258	10.242	(0.954)	250721	60.0000	57.56
23 Bis(2-Chloroethoxy)methane	93		10.413	10.402	(0.968)	196250	60.0000	57.92
24 Benzoic acid	105		10.552	10.370	(0.981)	363345	120.0000	130.7
25 2,4-Dichlorophenol	162		10.552	10.535	(0.981)	206948	60.0000	58.30
26 1,2,4-Trichlorobenzene	180		10.691	10.685	(0.994)	235753	60.0000	58.29
* 27 Naphthalene-d8	136		10.755	10.749	(1.000)	256785	20.0000	
28 Naphthalene	128		10.787	10.781	(1.003)	609954	60.0000	56.51
29 4-Chloroaniline	127		10.915	10.904	(1.015)	262811	60.0000	59.25
30 Hexachlorobutadiene	225		11.086	11.080	(1.031)	154414	60.0000	59.18
31 4-Chloro-3-methylphenol	107		11.695	11.684	(1.087)	207938	60.0000	58.17
32 2-Methylnaphthalene	141		11.903	11.897	(1.107)	365252	60.0000	59.26
33 Hexachlorocyclopentadiene	237		12.277	12.271	(0.901)	170854	60.0000	62.53

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	12.411	12.399	(0.911)	168166	60.0000	59.62
35 2,4,5-Trichlorophenol	196	12.464	12.453	(0.915)	173449	60.0000	57.74
\$ 36 2-Fluorobiphenyl	172	12.539	12.533	(0.920)	506916	60.0000	55.16
37 2-Chloronaphthalene	162	12.694	12.682	(0.931)	416712	60.0000	56.96
38 2-Nitroaniline	65	12.918	12.907	(0.948)	108685	60.0000	58.77
39 Dimethylphthalate	163	13.281	13.265	(0.975)	445884	60.0000	55.69
40 Acenaphthylene	152	13.377	13.371	(0.982)	659440	60.0000	55.59
41 2,6-Dinitrotoluene	165	13.383	13.371	(0.982)	109234	60.0000	59.85
* 42 Acenaphthene-d10	164	13.629	13.622	(1.000)	151055	60.0000	20.0000
43 3-Nitroaniline	138	13.602	13.580	(0.998)	107427	60.0000	60.28
44 Acenaphthene	153	13.682	13.670	(1.004)	399798	60.0000	56.85
45 2,4-Dinitrophenol	184	13.773	13.751	(1.011)	155158	120.0000	121.8
46 Dibenzofuran	168	13.944	13.932	(1.023)	579959	60.0000	57.06
47 4-Nitrophenol	109	13.869	13.847	(1.018)	70701	60.0000	54.89
48 2,4-Dinitrotoluene	165	14.018	13.996	(1.029)	141701	60.0000	60.16
50 Diethylphthalate	149	14.435	14.413	(1.059)	436512	60.0000	56.45
49 Fluorene	166	14.504	14.493	(1.064)	463246	60.0000	56.98
51 4-Chlorophenyl-phenylether	204	14.510	14.498	(1.065)	264868	60.0000	58.05
52 4-Nitroaniline	138	14.617	14.584	(1.072)	94939	60.0000	58.91
53 4,6-Dinitro-2-methylphenol	198	14.681	14.659	(0.916)	188839	120.0000	128.0
54 N-Nitrosodiphenylamine	169	14.723	14.701	(0.919)	322832	60.0000	55.28
\$ 55 2,4,6-Tribromophenol	330	14.932	14.915	(1.096)	113243	90.0000	88.11
56 4-Bromophenyl-phenylether	248	15.300	15.289	(0.955)	147435	60.0000	58.25
57 Hexachlorobenzene	284	15.535	15.524	(0.970)	159636	60.0000	57.95
58 Pentachlorophenol	266	15.824	15.812	(0.988)	112092	60.0000	60.92
* 59 Phenanthrene-d10	188	16.021	16.015	(1.000)	269444	20.0000	
60 Phenanthrene	178	16.064	16.053	(1.003)	625816	60.0000	56.35
61 Anthracene	178	16.133	16.122	(1.007)	621463	60.0000	55.94
62 Carbazole	167	16.411	16.393	(1.024)	541607	60.0000	56.71
63 Di-n-butylphthalate	149	17.084	17.073	(1.066)	663674	60.0000	55.50
64 Fluoranthene	202	18.014	18.002	(1.124)	714588	60.0000	56.93
65 Pyrene	202	18.377	18.365	(0.902)	708495	60.0000	57.55
\$ 66 Terphenyl-d14	244	18.660	18.648	(0.916)	555711	60.0000	59.62
67 Butylbenzylphthalate	149	19.525	19.514	(0.959)	287252	60.0000	59.60
68 Benzo(a)anthracene	228	20.337	20.325	(0.998)	640932	60.0000	58.95
* 69 Chrysene-d12	240	20.369	20.357	(1.000)	196077	20.0000	
70 3,3'-Dichlorobenzidine	252	20.332	20.320	(0.998)	186976	60.0000	57.42
71 Chrysene	228	20.412	20.395	(1.002)	581708	60.0000	58.24
72 bis(2-Ethylhexyl)phthalate	149	20.492	20.491	(0.956)	370485	60.0000	57.45
* 134 Di-n-octylphthalate-d4	153	21.432	21.426	(1.000)	278736	20.0000	
73 Di-n-octylphthalate	149	21.442	21.436	(1.000)	649215	60.0000	55.81
74 Benzo(b)fluoranthene	252	22.009	21.992	(0.976)	702804	60.0000	60.72
75 Benzo(k)fluoranthene	252	22.051	22.024	(0.978)	640519	60.0000	55.23
187 Total Benzofluoranthenes	252	22.051	21.992	(0.978)	1277137	120.0000	115.9
76 Benzo(a)pyrene	252	22.479	22.462	(0.996)	642131	60.0000	59.12
* 77 Perylene-d12	264	22.559	22.553	(1.000)	234465	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	24.417	24.374	(1.082)	986852	60.0000	62.16
79 Dibenzo(a,h)anthracene	278	24.444	24.395	(1.084)	819290	60.0000	61.69
80 Benzo(g,h,i)perylene	276	24.957	24.897	(1.106)	835496	60.0000	61.36
90 N-Nitrosodimethylamine	74	4.351	4.340	(0.500)	115257	60.0000	61.40
103 Pyridine	79	4.298	4.317	(0.493)	221691	60.0000	62.75
91 Aniline	93	8.271	8.260	(0.950)	331922	60.0000	60.38
105 1-methylnaphthalene	141	12.080	12.074	(1.123)	342037	60.0000	58.80
93 Benzidine	184	18.249	18.237	(0.896)	423923	120.0000	128.2

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
111 Azobenzene (1,2-DP-Hydrazine)	77		14.766	14.755	(0.922)	374480	60.0000	54.59
144 alpha-Terpineol	59		10.792	10.776	(1.003)	127800	60.0000	57.57
133 Butylatedhydroxytoluene	205		13.767	13.756	(1.010)	453147	60.0000	56.52
115 Tributyl Phosphate	99		14.782	14.760	(0.923)	435356	60.0000	56.26
116 Dibutyl Phenyl Phosphate	175		16.523	16.512	(1.031)	332132	60.0000	57.55
117 Butyl Diphenyl Phosphate	94		18.227	18.221	(0.895)	96614	60.0000	60.90
118 Triphenyl Phosphate	326		19.851	19.839	(0.975)	115675	60.0000	59.69
120 2,3,4,6-Tetrachlorophenol	232		14.211	14.205	(1.043)	140086	60.0000	61.00
151 1,2,4,5-Tetrachlorobenzene	216		12.245	12.239	(0.899)	236906	60.0000	57.14

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 16-MAY-2022
 Lab File ID: NT622051607.D Calibration Time: 17:11
 Lab Smp Id: SKE0212-CAL6
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Misc Info: 22-

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	71723	35862	143446	74390	3.72
27 Naphthalene-d8	255203	127602	510406	256785	0.62
42 Acenaphthene-d10	144799	72400	289598	151055	4.32
59 Phenanthrene-d10	257295	128648	514590	269444	4.72
69 Chrysene-d12	195882	97941	391764	196077	0.10
134 Di-n-octylphthala	272032	136016	544064	278736	2.46
77 Perylene-d12	222542	111271	445084	234465	5.36

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.71	8.21	9.21	8.71	0.00
27 Naphthalene-d8	10.75	10.25	11.25	10.76	0.05
42 Acenaphthene-d10	13.62	13.12	14.12	13.63	0.04
59 Phenanthrene-d10	16.02	15.52	16.52	16.02	0.03
69 Chrysene-d12	20.36	19.86	20.86	20.37	0.03
134 Di-n-octylphthala	21.43	20.93	21.93	21.43	0.00
77 Perylene-d12	22.55	22.05	23.05	22.56	0.02

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

REVIEW SUMMARY FOR FILE - NT622051607.D

Lab ID: SKE0212-CAL6

nt6.i, SW84620220516.m, 16-MAY-2022 20:33

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICALA.sub = 0.0100

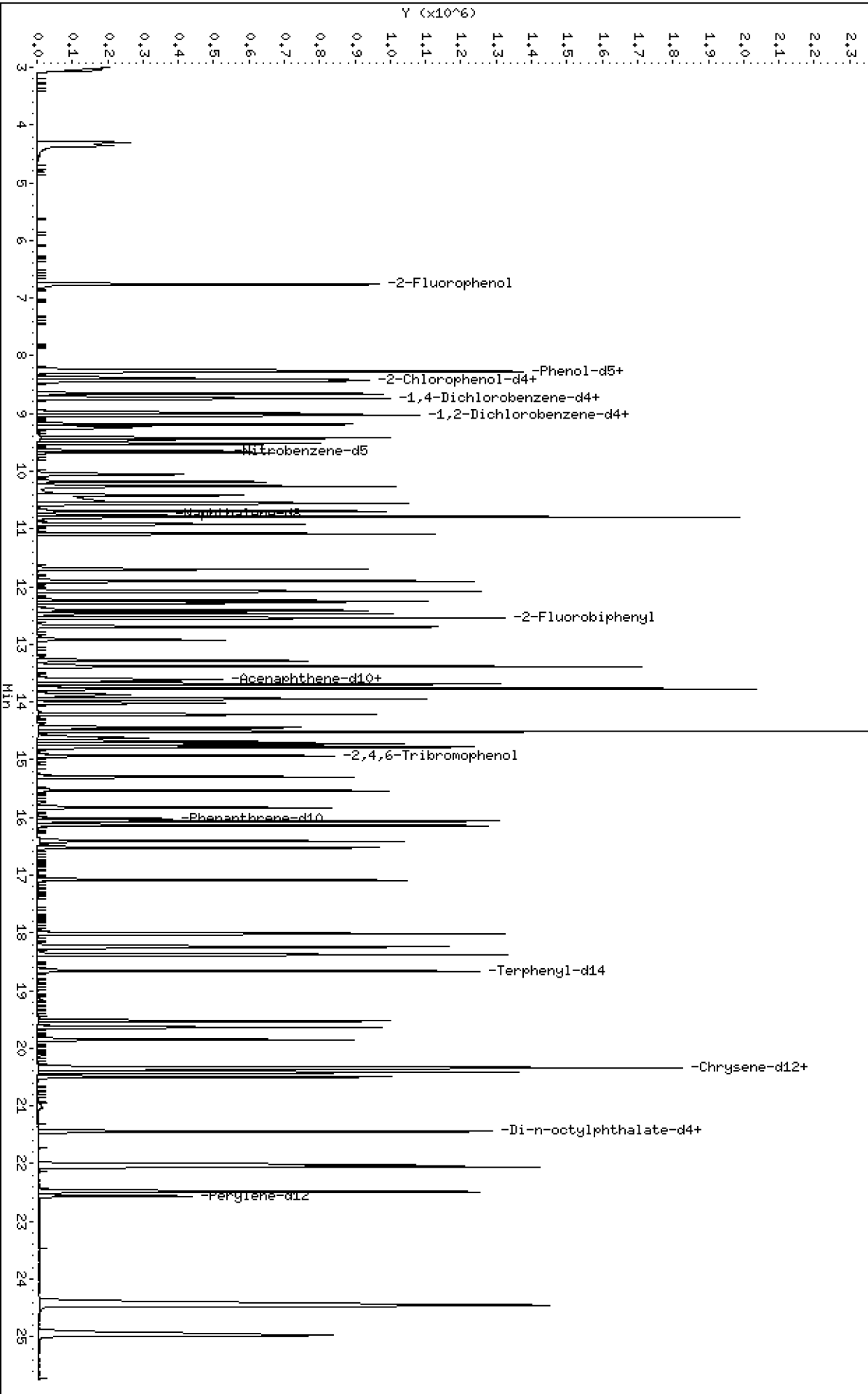
* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt6.1\20220516.b\NT622051608.D
Date: 16-May-2022 21:06
Client ID:
Sample Info: IC80220516,

Column phase: ZB-5msi

Instrument: nt6.1
Operator: JZ
Column diameter: 0.32

\\target\share\chem3\nt6.1\20220516.b\NT622051608.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220516.b\NT622051608.D
 Lab Smp Id: SKE0212-CAL7
 Inj Date : 16-MAY-2022 21:06
 Operator : JZ Inst ID: nt6.i
 Smp Info : IC80220516,
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Meth Date : 16-May-2022 23:15 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 8 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALA.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.761	6.748	(0.776)	463270	120.000	117.1
\$ 2 Phenol-d5	99		8.251	8.217	(0.947)	521403	120.000	115.2
3 Phenol	94		8.273	8.239	(0.949)	410873	80.0000	78.11
\$ 5 2-Chlorophenol-d4	132		8.417	8.398	(0.966)	460946	120.000	112.7
4 Bis(2-Chloroethyl)ether	93		8.380	8.361	(0.961)	249334	80.0000	78.55
6 2-Chlorophenol	128		8.444	8.426	(0.969)	331522	80.0000	77.19
7 1,3-Dichlorobenzene	146		8.657	8.650	(0.993)	350701	80.0000	78.59
* 8 1,4-Dichlorobenzene-d4	152		8.716	8.709	(1.000)	73198	20.0000	
9 1,4-Dichlorobenzene	146		8.743	8.730	(1.003)	336868	80.0000	77.39
\$ 10 1,2-Dichlorobenzene-d4	152		9.015	9.008	(1.034)	225021	80.0000	76.86
12 1,2-Dichlorobenzene	146		9.037	9.029	(1.037)	318574	80.0000	77.08
11 Benzyl alcohol	108		8.988	8.960	(1.031)	194234	80.0000	79.06
14 2,2'-oxybis(1-Chloropropane)	45		9.229	9.216	(1.059)	189711	80.0000	77.85
13 2-Methylphenol	108		9.186	9.173	(1.054)	277634	80.0000	77.93
17 Hexachloroethane	117		9.517	9.515	(1.092)	134843	80.0000	76.81
16 N-Nitroso-di-n-propylamine	70		9.469	9.435	(1.086)	181195	80.0000	76.14
15 4-Methylphenol	108		9.426	9.398	(1.081)	296223	80.0000	77.95
\$ 18 Nitrobenzene-d5	82		9.645	9.627	(0.897)	295495	80.0000	76.37
19 Nitrobenzene	77		9.677	9.654	(0.900)	278390	80.0000	75.76
20 Isophorone	82		10.057	10.028	(0.935)	365151	80.0000	78.39
21 2-Nitrophenol	139		10.185	10.172	(0.947)	185415	80.0000	81.55
22 2,4-Dimethylphenol	107		10.260	10.242	(0.954)	330744	80.0000	77.38
23 Bis(2-Chloroethoxy)methane	93		10.420	10.402	(0.969)	255284	80.0000	76.78
24 Benzoic acid	105		10.580	10.370	(0.984)	516339	160.000	189.3
25 2,4-Dichlorophenol	162		10.559	10.535	(0.982)	274688	80.0000	78.87
26 1,2,4-Trichlorobenzene	180		10.692	10.685	(0.994)	306186	80.0000	77.15
* 27 Naphthalene-d8	136		10.756	10.749	(1.000)	251973	20.0000	
28 Naphthalene	128		10.794	10.781	(1.003)	780010	80.0000	73.65
29 4-Chloroaniline	127		10.922	10.904	(1.015)	336257	80.0000	77.25
30 Hexachlorobutadiene	225		11.088	11.080	(1.031)	205058	80.0000	80.08
31 4-Chloro-3-methylphenol	107		11.702	11.684	(1.088)	277460	80.0000	79.10
32 2-Methylnaphthalene	141		11.910	11.897	(1.107)	461897	80.0000	76.38
33 Hexachlorocyclopentadiene	237		12.279	12.271	(0.901)	222039	80.0000	83.91

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	12.412	12.399	(0.911)	227256	80.0000	83.19
35 2,4,5-Trichlorophenol	196	12.466	12.453	(0.915)	230056	80.0000	79.08
\$ 36 2-Fluorobiphenyl	172	12.546	12.533	(0.920)	644008	80.0000	72.36
37 2-Chloronaphthalene	162	12.695	12.682	(0.931)	533745	80.0000	75.33
38 2-Nitroaniline	65	12.925	12.907	(0.948)	138434	80.0000	77.29
39 Dimethylphthalate	163	13.283	13.265	(0.975)	582429	80.0000	75.12
40 Acenaphthylene	152	13.384	13.371	(0.982)	836447	80.0000	72.81
41 2,6-Dinitrotoluene	165	13.390	13.371	(0.982)	143189	80.0000	81.01
* 42 Acenaphthene-d10	164	13.630	13.622	(1.000)	146292	20.0000	
43 3-Nitroaniline	138	13.609	13.580	(0.998)	135768	80.0000	78.66
44 Acenaphthene	153	13.689	13.670	(1.004)	514025	80.0000	75.47
45 2,4-Dinitrophenol	184	13.779	13.751	(1.011)	219903	160.0000	159.4
46 Dibenzofuran	168	13.950	13.932	(1.024)	724401	80.0000	73.60
47 4-Nitrophenol	109	13.876	13.847	(1.018)	93198	80.0000	74.71
48 2,4-Dinitrotoluene	165	14.025	13.996	(1.029)	182473	80.0000	79.99
50 Diethylphthalate	149	14.442	14.413	(1.060)	568337	80.0000	75.89
49 Fluorene	166	14.511	14.493	(1.065)	602005	80.0000	76.46
51 4-Chlorophenyl-phenylether	204	14.511	14.498	(1.065)	349420	80.0000	79.08
52 4-Nitroaniline	138	14.629	14.584	(1.073)	121123	80.0000	77.60
53 4,6-Dinitro-2-methylphenol	198	14.693	14.659	(0.917)	260619	160.0000	180.0
54 N-Nitrosodiphenylamine	169	14.730	14.701	(0.919)	426148	80.0000	74.35
\$ 55 2,4,6-Tribromophenol	330	14.933	14.915	(1.096)	148933	120.0000	119.6
56 4-Bromophenyl-phenylether	248	15.302	15.289	(0.955)	196270	80.0000	79.02
57 Hexachlorobenzene	284	15.537	15.524	(0.970)	207784	80.0000	76.87
58 Pentachlorophenol	266	15.830	15.812	(0.988)	153461	80.0000	84.98
* 59 Phenanthrene-d10	188	16.023	16.015	(1.000)	264427	20.0000	
60 Phenanthrene	178	16.065	16.053	(1.003)	797671	80.0000	73.18
61 Anthracene	178	16.140	16.122	(1.007)	795610	80.0000	72.97
62 Carbazole	167	16.413	16.393	(1.024)	715151	80.0000	76.31
63 Di-n-butylphthalate	149	17.086	17.073	(1.066)	853240	80.0000	72.70
64 Fluoranthene	202	18.020	18.002	(1.125)	938966	80.0000	76.22
65 Pyrene	202	18.383	18.365	(0.902)	929371	80.0000	72.02
\$ 66 Terphenyl-d14	244	18.661	18.648	(0.916)	736190	80.0000	75.34
67 Butylbenzylphthalate	149	19.526	19.514	(0.959)	391496	80.0000	77.49
68 Benzo(a)anthracene	228	20.344	20.325	(0.999)	892354	80.0000	78.30
* 69 Chrysene-d12	240	20.370	20.357	(1.000)	205536	20.0000	
70 3,3'-Dichlorobenzidine	252	20.333	20.320	(0.998)	281006	80.0000	82.33
71 Chrysene	228	20.418	20.395	(1.002)	797932	80.0000	76.22
72 bis(2-Ethylhexyl)phthalate	149	20.498	20.491	(0.956)	496751	80.0000	72.47
* 134 Di-n-octylphthalate-d4	153	21.439	21.426	(1.000)	296289	20.0000	
73 Di-n-octylphthalate	149	21.444	21.436	(1.000)	880308	80.0000	71.19
74 Benzo(b)fluoranthene	252	22.021	21.992	(0.976)	982503	80.0000	78.65
75 Benzo(k)fluoranthene	252	22.058	22.024	(0.978)	918885	80.0000	73.41
187 Total Benzofluoranthenes	252	22.058	21.992	(0.978)	1798773	160.0000	151.3
76 Benzo(a)pyrene	252	22.491	22.462	(0.997)	922123	80.0000	78.66
* 77 Perylene-d12	264	22.560	22.553	(1.000)	253056	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	24.435	24.374	(1.083)	1409259	80.0000	82.24
79 Dibenzo(a,h)anthracene	278	24.462	24.395	(1.084)	1165634	80.0000	81.32
80 Benzo(g,h,i)perylene	276	24.980	24.897	(1.107)	1179661	80.0000	80.27
90 N-Nitrosodimethylamine	74	4.358	4.340	(0.500)	153998	80.0000	83.37
103 Pyridine	79	4.304	4.317	(0.494)	287938	80.0000	82.82
91 Aniline	93	8.278	8.260	(0.950)	426262	80.0000	78.80
105 1-methylnaphthalene	141	12.086	12.074	(1.124)	434725	80.0000	76.16
93 Benzidine	184	18.255	18.237	(0.896)	559813	160.0000	161.6

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
111 Azobenzene (1,2-DP-Hydrazine)	77		14.773	14.755	(0.922)	473263	80.0000	70.30
144 alpha-Terpineol	59		10.799	10.776	(1.004)	164362	80.0000	75.45
133 Butylatedhydroxytoluene	205		13.769	13.756	(1.010)	583218	80.0000	75.12
115 Tributyl Phosphate	99		14.789	14.760	(0.923)	563183	80.0000	74.16
116 Dibutyl Phenyl Phosphate	175		16.525	16.512	(1.031)	447513	80.0000	79.01
117 Butyl Diphenyl Phosphate	94		18.234	18.221	(0.895)	133379	80.0000	80.20
118 Triphenyl Phosphate	326		19.858	19.839	(0.975)	164273	80.0000	80.86
120 2,3,4,6-Tetrachlorophenol	232		14.217	14.205	(1.043)	182643	80.0000	82.12
151 1,2,4,5-Tetrachlorobenzene	216		12.247	12.239	(0.899)	309358	80.0000	77.05

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 16-MAY-2022
 Lab File ID: NT622051608.D Calibration Time: 17:11
 Lab Smp Id: SKE0212-CAL7
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Misc Info: 22-

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	71723	35862	143446	73198	2.06
27 Naphthalene-d8	255203	127602	510406	251973	-1.27
42 Acenaphthene-d10	144799	72400	289598	146292	1.03
59 Phenanthrene-d10	257295	128648	514590	264427	2.77
69 Chrysene-d12	195882	97941	391764	205536	4.93
134 Di-n-octylphthala	272032	136016	544064	296289	8.92
77 Perylene-d12	222542	111271	445084	253056	13.71

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.71	8.21	9.21	8.72	0.08
27 Naphthalene-d8	10.75	10.25	11.25	10.76	0.06
42 Acenaphthene-d10	13.62	13.12	14.12	13.63	0.05
59 Phenanthrene-d10	16.02	15.52	16.52	16.02	0.04
69 Chrysene-d12	20.36	19.86	20.86	20.37	0.03
134 Di-n-octylphthala	21.43	20.93	21.93	21.44	0.03
77 Perylene-d12	22.55	22.05	23.05	22.56	0.03

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

REVIEW SUMMARY FOR FILE - NT622051608.D

Lab ID: SKE0212-CAL7

nt6.i, SW84620220516.m, 16-MAY-2022 21:06

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICALA.sub = 0.0100

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



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FE00035

Laboratory ID: SKE0212-SCV1

Sequence: SKE0212

Sequence Name: Secondary Cal Check

Standard ID: K004689

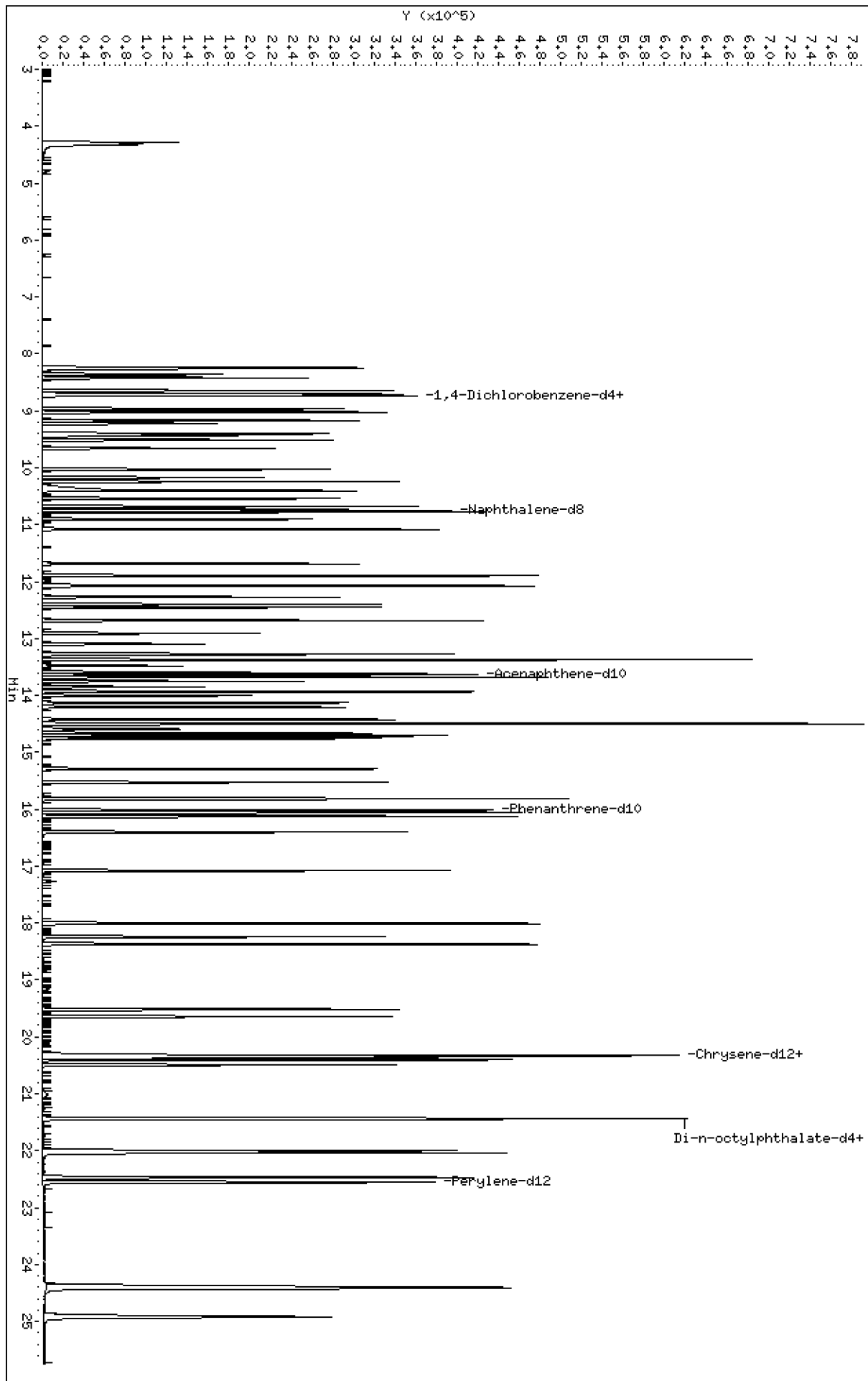
ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Naphthalene	25.000	24.6	-1.4	20.00
2-Methylnaphthalene	25.000	24.5	-1.8	20.00
Acenaphthene	25.000	24.1	-3.4	20.00
Pentachlorophenol	50.000	46.2	-7.6	20.00
Phenanthrene	25.000	24.3	-2.7	20.00
Fluoranthene	25.000	24.9	-0.3	20.00
Benzo(a)anthracene	25.000	23.9	-4.3	20.00
Chrysene	25.000	23.5	-6.0	20.00
Benzo(b)fluoranthene	25.000	25.0	0.1	20.00
Benzo(k)fluoranthene	25.000	24.5	-1.9	20.00
Benzo(a)pyrene	25.000	25.6	2.5	20.00
Indeno(1,2,3-cd)pyrene	25.000	23.9	-4.6	20.00
Dibenzo(a,h)anthracene	25.000	24.2	-3.3	20.00
1-Methylnaphthalene	25.000	26.0	3.9	20.00

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt6.1\20220516.b\N1622051702.D
Date: 17-May-2022 12:39
Client ID:
Sample Info: SKE0212-SCV1
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.1
Operator: JZ
Column diameter: 0.32

\\target\share\chem3\nt6.1\20220516.b\N1622051702.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220516.b\NT622051702.D
 Lab Smp Id: SKE0212-SCV1
 Inj Date : 17-MAY-2022 12:39
 Operator : JZ Inst ID: nt6.i
 Smp Info : SKE0212-SCV1
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Meth Date : 17-May-2022 13:05 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 2 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICV.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/L)
3 Phenol	94	8.240	8.250	(0.947)	132250	23.3708	23.37
4 Bis(2-Chloroethyl)ether	93	8.362	8.368	(0.961)	92614	27.1217	27.12
6 2-Chlorophenol	128	8.421	8.426	(0.967)	105289	22.7881	22.79
7 1,3-Dichlorobenzene	146	8.646	8.651	(0.993)	118625	24.7114	24.71
* 8 1,4-Dichlorobenzene-d4	152	8.704	8.709	(1.000)	78743	20.0000	
9 1,4-Dichlorobenzene	146	8.731	8.736	(1.003)	119878	25.6001	25.60
11 Benzyl alcohol	108	8.966	8.966	(1.030)	67360	25.4868	25.49
12 1,2-Dichlorobenzene	146	9.025	9.030	(1.037)	110097	24.7613	24.76
13 2-Methylphenol	108	9.169	9.174	(1.053)	88639	23.1271	23.13
14 2,2'-oxybis(1-Chloropropane)	45	9.222	9.222	(1.060)	75291	28.7192	28.72
15 4-Methylphenol	108	9.404	9.404	(1.080)	92693	22.6736	22.67
16 N-Nitroso-di-n-propylamine	70	9.436	9.441	(1.084)	62621	24.4606	24.46
17 Hexachloroethane	117	9.511	9.516	(1.093)	47310	25.0523	25.05
19 Nitrobenzene	77	9.660	9.660	(0.899)	98500	25.4579	25.46
20 Isophorone	82	10.029	10.034	(0.933)	170367	34.7325	34.73
21 2-Nitrophenol	139	10.173	10.173	(0.946)	56975	23.7990	23.80
22 2,4-Dimethylphenol	107	10.243	10.248	(0.953)	96910	21.5306	21.53
23 Bis(2-Chloroethoxy)methane	93	10.403	10.408	(0.968)	101564	29.0079	29.01
24 Benzoic acid	105	10.403	10.461	(0.968)	63982	22.2733	22.27
25 2,4-Dichlorophenol	162	10.542	10.541	(0.981)	84571	23.0596	23.06
26 1,2,4-Trichlorobenzene	180	10.686	10.686	(0.994)	101833	24.3683	24.37
* 27 Naphthalene-d8	136	10.750	10.750	(1.000)	265327	20.0000	

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
28 Naphthalene	128	10.782	10.782	(1.003)	274853	24.6459	24.65
29 4-Chloroaniline	127	10.905	10.910	(1.014)	103579	22.5983	22.60
30 Hexachlorobutadiene	225	11.081	11.081	(1.031)	67351	24.9799	24.98
31 4-Chloro-3-methylphenol	107	11.685	11.690	(1.087)	85820	23.2333	23.23
32 2-Methylnaphthalene	141	11.898	11.898	(1.107)	156330	24.5490	24.55
33 Hexachlorocyclopentadiene	237	12.272	12.272	(0.900)	70024	25.0388	25.04
34 2,4,6-Trichlorophenol	196	12.400	12.405	(0.910)	67694	23.4453	23.45
35 2,4,5-Trichlorophenol	196	12.454	12.459	(0.914)	72670	23.6353	23.64
37 2-Chloronaphthalene	162	12.683	12.688	(0.931)	184108	24.5865	24.59
38 2-Nitroaniline	65	12.908	12.913	(0.947)	46209	24.4113	24.41
39 Dimethylphthalate	163	13.271	13.271	(0.974)	204613	24.9692	24.97
40 Acenaphthylene	152	13.372	13.372	(0.981)	296941	24.4572	24.46
41 2,6-Dinitrotoluene	165	13.372	13.372	(0.981)	48513	25.9702	25.97
* 42 Acenaphthene-d10	164	13.629	13.623	(1.000)	154616	20.0000	
43 3-Nitroaniline	138	13.591	13.591	(0.997)	47182	25.8647	25.86
44 Acenaphthene	153	13.677	13.677	(1.004)	173806	24.1449	24.14
45 2,4-Dinitrophenol	184	13.757	13.757	(1.009)	58271	51.1473	51.15
46 Dibenzofuran	168	13.939	13.938	(1.023)	263210	25.3013	25.30
47 4-Nitrophenol	109	13.853	13.853	(1.016)	32165	24.3965	24.40
48 2,4-Dinitrotoluene	165	14.008	14.008	(1.028)	61875	25.6652	25.67
49 Fluorene	166	14.499	14.499	(1.064)	203057	24.4005	24.40
50 Diethylphthalate	149	14.425	14.424	(1.058)	206605	26.1014	26.10
51 4-Chlorophenyl-phenylether	204	14.505	14.504	(1.064)	117904	25.2475	25.25
52 4-Nitroaniline	138	14.596	14.595	(1.071)	41071	24.8962	24.90
53 4,6-Dinitro-2-methylphenol	198	14.665	14.665	(0.916)	81088	53.4614	53.46
54 N-Nitrosodiphenylamine	169	14.708	14.713	(0.918)	147244	24.5229	24.52
56 4-Bromophenyl-phenylether	248	15.295	15.295	(0.955)	65927	25.3362	25.34
57 Hexachlorobenzene	284	15.530	15.530	(0.970)	69479	24.5349	24.53
58 Pentachlorophenol	266	15.819	15.818	(0.988)	87386	46.1932	46.19
* 59 Phenanthrene-d10	188	16.016	16.016	(1.000)	277010	20.0000	
60 Phenanthrene	178	16.059	16.053	(1.003)	277742	24.3243	24.32
61 Anthracene	178	16.128	16.128	(1.007)	278521	24.3856	24.39
62 Carbazole	167	16.401	16.400	(1.024)	227640	23.1864	23.19
63 Di-n-butylphthalate	149	17.079	17.079	(1.066)	317988	25.8648	25.86
64 Fluoranthene	202	18.008	18.008	(1.124)	321810	24.9368	24.94
65 Pyrene	202	18.372	18.371	(0.902)	324542	24.2952	24.30
67 Butylbenzylphthalate	149	19.520	19.520	(0.959)	135550	25.9190	25.92
68 Benzo(a)anthracene	228	20.332	20.337	(0.998)	282228	23.9237	23.92
* 69 Chrysene-d12	240	20.364	20.364	(1.000)	212766	20.0000	
70 3,3'-Dichlorobenzidine	252	20.326	20.326	(0.998)	94354	26.7032	26.70
71 Chrysene	228	20.401	20.401	(1.002)	254630	23.4955	23.50
72 bis(2-Ethylhexyl)phthalate	149	20.492	20.492	(0.956)	176532	25.8894	25.89
* 134 Di-n-octylphthalate-d4	153	21.432	21.432	(1.000)	294742	20.0000	
73 Di-n-octylphthalate	149	21.443	21.437	(1.000)	314040	25.5294	25.53
74 Benzo(b)fluoranthene	252	22.004	22.003	(0.976)	291059	25.0250	25.03
75 Benzo(k)fluoranthene	252	22.036	22.035	(0.977)	285742	24.5191	24.52
187 Total Benzofluoranthenes	252	22.036	22.035	(0.977)	552757	49.9421	49.94
76 Benzo(a)pyrene	252	22.468	22.468	(0.996)	279678	25.6245	25.62
* 77 Perylene-d12	264	22.554	22.553	(1.000)	235601	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	24.391	24.391	(1.081)	380517	23.8517	23.85
79 Dibenzo(a,h)anthracene	278	24.418	24.412	(1.083)	322512	24.1667	24.17
80 Benzo(g,h,i)perylene	276	24.920	24.925	(1.105)	324816	23.7382	23.74
90 N-Nitrosodimethylamine	74	4.325	4.335	(0.497)	57797	29.0876	29.09
91 Aniline	93	8.261	8.261	(0.949)	156829	26.9505	26.95

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ug/mL)	FINAL (ug/L)	
105 1-methylnaphthalene	141	12.075	12.074	(1.123)	156069	25.9664	25.97	
111 Azobenzene (1,2-DP-Hydrazine)	77	14.761	14.761	(0.922)	172739	24.4930	24.49	
93 Benzidine	184	18.243	18.243	(0.896)	206124	57.4619	57.46	
103 Pyridine	79	4.287	4.298	(0.493)	95963	25.6591	25.66	
120 2,3,4,6-Tetrachlorophenol	232	14.206	14.205	(1.042)	56016	23.8292	23.83	
151 1,2,4,5-Tetrachlorobenzene	216	Compound Not Detected.						

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 16-MAY-2022
 Lab File ID: NT622051702.D Calibration Time: 17:11
 Lab Smp Id: SKE0212-SCV1
 Analysis Type: SV Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Misc Info: 22-

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	71723	35862	143446	78743	9.79
27 Naphthalene-d8	255203	127602	510406	265327	3.97
42 Acenaphthene-d10	144799	72400	289598	154616	6.78
59 Phenanthrene-d10	257295	128648	514590	277010	7.66
69 Chrysene-d12	195882	97941	391764	212766	8.62
134 Di-n-octylphthala	272032	136016	544064	294742	8.35
77 Perylene-d12	222542	111271	445084	235601	5.87

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.71	8.21	9.21	8.70	-0.06
27 Naphthalene-d8	10.75	10.25	11.25	10.75	0.00
42 Acenaphthene-d10	13.62	13.12	14.12	13.63	0.04
59 Phenanthrene-d10	16.02	15.52	16.52	16.02	0.00
69 Chrysene-d12	20.36	19.86	20.86	20.36	0.00
134 Di-n-octylphthala	21.43	20.93	21.93	21.43	0.00
77 Perylene-d12	22.55	22.05	23.05	22.55	0.00

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

REVIEW SUMMARY FOR FILE - NT622051702.D

Lab ID: SKE0212-SCV1

nt6.i, SW84620220516.m, 17-MAY-2022 12:39

RT CO-ELUTION COMPOUNDS

13.373 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICV.sub = 0.0000

Exception: Total Benzofluoranthenes 0.5000

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



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FE00035

Laboratory ID: SKE0212-SCV1

Sequence: SKE0212

Standard ID: K004689

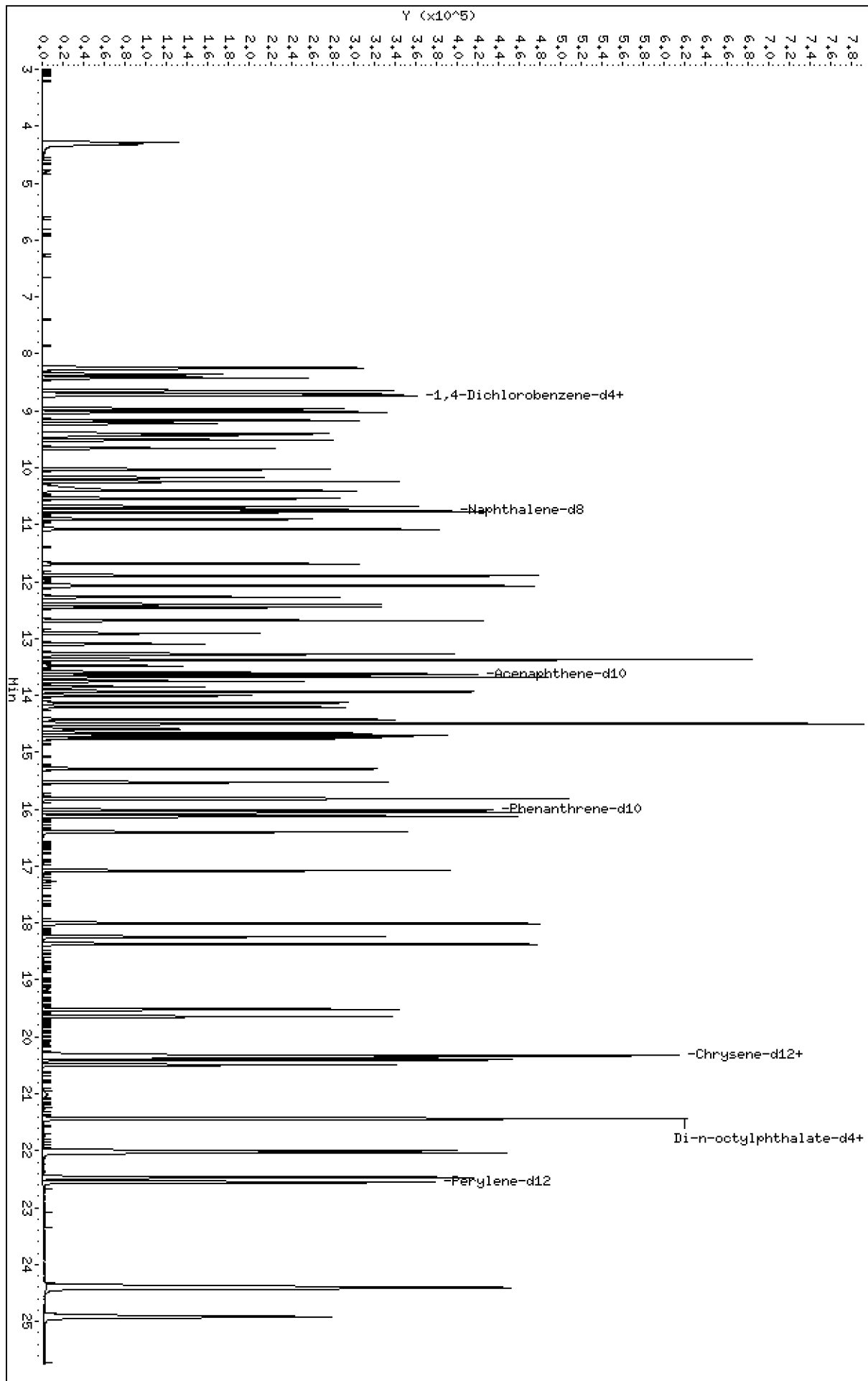
ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Naphthalene	25.000	24.6	-1.4	20.00
2-Methylnaphthalene	25.000	24.5	-1.8	20.00
Acenaphthene	25.000	24.1	-3.4	20.00
Pentachlorophenol	50.000	46.2	-7.6	20.00
Phenanthrene	25.000	24.3	-2.7	20.00
Fluoranthene	25.000	24.9	-0.3	20.00
Benzo(a)anthracene	25.000	23.9	-4.3	20.00
Chrysene	25.000	23.5	-6.0	20.00
Benzo(b)fluoranthene	25.000	25.0	0.1	20.00
Benzo(k)fluoranthene	25.000	24.5	-1.9	20.00
Benzo(a)pyrene	25.000	25.6	2.5	20.00
Indeno(1,2,3-cd)pyrene	25.000	23.9	-4.6	20.00
Dibenzo(a,h)anthracene	25.000	24.2	-3.3	20.00
1-Methylnaphthalene	25.000	26.0	3.9	20.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt6.1\20220516.b\N1622051702.D
Date: 17-May-2022 12:39
Client ID:
Sample Info: SKE0212-SCV1
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.1
Operator: JZ
Column diameter: 0.32

\\target\share\chem3\nt6.1\20220516.b\N1622051702.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220516.b\NT622051702.D
 Lab Smp Id: SKE0212-SCV1
 Inj Date : 17-MAY-2022 12:39
 Operator : JZ Inst ID: nt6.i
 Smp Info : SKE0212-SCV1
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Meth Date : 17-May-2022 13:05 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 2 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICV.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/L)
3 Phenol	94		8.240	8.250	(0.947)	132250	23.3708	23.37
4 Bis(2-Chloroethyl)ether	93		8.362	8.368	(0.961)	92614	27.1217	27.12
6 2-Chlorophenol	128		8.421	8.426	(0.967)	105289	22.7881	22.79
7 1,3-Dichlorobenzene	146		8.646	8.651	(0.993)	118625	24.7114	24.71
* 8 1,4-Dichlorobenzene-d4	152		8.704	8.709	(1.000)	78743	20.0000	
9 1,4-Dichlorobenzene	146		8.731	8.736	(1.003)	119878	25.6001	25.60
11 Benzyl alcohol	108		8.966	8.966	(1.030)	67360	25.4868	25.49
12 1,2-Dichlorobenzene	146		9.025	9.030	(1.037)	110097	24.7613	24.76
13 2-Methylphenol	108		9.169	9.174	(1.053)	88639	23.1271	23.13
14 2,2'-oxybis(1-Chloropropane)	45		9.222	9.222	(1.060)	75291	28.7192	28.72
15 4-Methylphenol	108		9.404	9.404	(1.080)	92693	22.6736	22.67
16 N-Nitroso-di-n-propylamine	70		9.436	9.441	(1.084)	62621	24.4606	24.46
17 Hexachloroethane	117		9.511	9.516	(1.093)	47310	25.0523	25.05
19 Nitrobenzene	77		9.660	9.660	(0.899)	98500	25.4579	25.46
20 Isophorone	82		10.029	10.034	(0.933)	170367	34.7325	34.73
21 2-Nitrophenol	139		10.173	10.173	(0.946)	56975	23.7990	23.80
22 2,4-Dimethylphenol	107		10.243	10.248	(0.953)	96910	21.5306	21.53
23 Bis(2-Chloroethoxy)methane	93		10.403	10.408	(0.968)	101564	29.0079	29.01
24 Benzoic acid	105		10.403	10.461	(0.968)	63982	22.2733	22.27
25 2,4-Dichlorophenol	162		10.542	10.541	(0.981)	84571	23.0596	23.06
26 1,2,4-Trichlorobenzene	180		10.686	10.686	(0.994)	101833	24.3683	24.37
* 27 Naphthalene-d8	136		10.750	10.750	(1.000)	265327	20.0000	

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
28 Naphthalene	128	10.782	10.782	(1.003)	274853	24.6459	24.65
29 4-Chloroaniline	127	10.905	10.910	(1.014)	103579	22.5983	22.60
30 Hexachlorobutadiene	225	11.081	11.081	(1.031)	67351	24.9799	24.98
31 4-Chloro-3-methylphenol	107	11.685	11.690	(1.087)	85820	23.2333	23.23
32 2-Methylnaphthalene	141	11.898	11.898	(1.107)	156330	24.5490	24.55
33 Hexachlorocyclopentadiene	237	12.272	12.272	(0.900)	70024	25.0388	25.04
34 2,4,6-Trichlorophenol	196	12.400	12.405	(0.910)	67694	23.4453	23.45
35 2,4,5-Trichlorophenol	196	12.454	12.459	(0.914)	72670	23.6353	23.64
37 2-Chloronaphthalene	162	12.683	12.688	(0.931)	184108	24.5865	24.59
38 2-Nitroaniline	65	12.908	12.913	(0.947)	46209	24.4113	24.41
39 Dimethylphthalate	163	13.271	13.271	(0.974)	204613	24.9692	24.97
40 Acenaphthylene	152	13.372	13.372	(0.981)	296941	24.4572	24.46
41 2,6-Dinitrotoluene	165	13.372	13.372	(0.981)	48513	25.9702	25.97
* 42 Acenaphthene-d10	164	13.629	13.623	(1.000)	154616	20.0000	
43 3-Nitroaniline	138	13.591	13.591	(0.997)	47182	25.8647	25.86
44 Acenaphthene	153	13.677	13.677	(1.004)	173806	24.1449	24.14
45 2,4-Dinitrophenol	184	13.757	13.757	(1.009)	58271	51.1473	51.15
46 Dibenzofuran	168	13.939	13.938	(1.023)	263210	25.3013	25.30
47 4-Nitrophenol	109	13.853	13.853	(1.016)	32165	24.3965	24.40
48 2,4-Dinitrotoluene	165	14.008	14.008	(1.028)	61875	25.6652	25.67
49 Fluorene	166	14.499	14.499	(1.064)	203057	24.4005	24.40
50 Diethylphthalate	149	14.425	14.424	(1.058)	206605	26.1014	26.10
51 4-Chlorophenyl-phenylether	204	14.505	14.504	(1.064)	117904	25.2475	25.25
52 4-Nitroaniline	138	14.596	14.595	(1.071)	41071	24.8962	24.90
53 4,6-Dinitro-2-methylphenol	198	14.665	14.665	(0.916)	81088	53.4614	53.46
54 N-Nitrosodiphenylamine	169	14.708	14.713	(0.918)	147244	24.5229	24.52
56 4-Bromophenyl-phenylether	248	15.295	15.295	(0.955)	65927	25.3362	25.34
57 Hexachlorobenzene	284	15.530	15.530	(0.970)	69479	24.5349	24.53
58 Pentachlorophenol	266	15.819	15.818	(0.988)	87386	46.1932	46.19
* 59 Phenanthrene-d10	188	16.016	16.016	(1.000)	277010	20.0000	
60 Phenanthrene	178	16.059	16.053	(1.003)	277742	24.3243	24.32
61 Anthracene	178	16.128	16.128	(1.007)	278521	24.3856	24.39
62 Carbazole	167	16.401	16.400	(1.024)	227640	23.1864	23.19
63 Di-n-butylphthalate	149	17.079	17.079	(1.066)	317988	25.8648	25.86
64 Fluoranthene	202	18.008	18.008	(1.124)	321810	24.9368	24.94
65 Pyrene	202	18.372	18.371	(0.902)	324542	24.2952	24.30
67 Butylbenzylphthalate	149	19.520	19.520	(0.959)	135550	25.9190	25.92
68 Benzo(a)anthracene	228	20.332	20.337	(0.998)	282228	23.9237	23.92
* 69 Chrysene-d12	240	20.364	20.364	(1.000)	212766	20.0000	
70 3,3'-Dichlorobenzidine	252	20.326	20.326	(0.998)	94354	26.7032	26.70
71 Chrysene	228	20.401	20.401	(1.002)	254630	23.4955	23.50
72 bis(2-Ethylhexyl)phthalate	149	20.492	20.492	(0.956)	176532	25.8894	25.89
* 134 Di-n-octylphthalate-d4	153	21.432	21.432	(1.000)	294742	20.0000	
73 Di-n-octylphthalate	149	21.443	21.437	(1.000)	314040	25.5294	25.53
74 Benzo(b)fluoranthene	252	22.004	22.003	(0.976)	291059	25.0250	25.03
75 Benzo(k)fluoranthene	252	22.036	22.035	(0.977)	285742	24.5191	24.52
187 Total Benzofluoranthenes	252	22.036	22.035	(0.977)	552757	49.9421	49.94
76 Benzo(a)pyrene	252	22.468	22.468	(0.996)	279678	25.6245	25.62
* 77 Perylene-d12	264	22.554	22.553	(1.000)	235601	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	24.391	24.391	(1.081)	380517	23.8517	23.85
79 Dibenzo(a,h)anthracene	278	24.418	24.412	(1.083)	322512	24.1667	24.17
80 Benzo(g,h,i)perylene	276	24.920	24.925	(1.105)	324816	23.7382	23.74
90 N-Nitrosodimethylamine	74	4.325	4.335	(0.497)	57797	29.0876	29.09
91 Aniline	93	8.261	8.261	(0.949)	156829	26.9505	26.95

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/L)
105 1-methylnaphthalene	141	12.075	12.074	(1.123)	156069	25.9664	25.97
111 Azobenzene (1,2-DP-Hydrazine)	77	14.761	14.761	(0.922)	172739	24.4930	24.49
93 Benzidine	184	18.243	18.243	(0.896)	206124	57.4619	57.46
103 Pyridine	79	4.287	4.298	(0.493)	95963	25.6591	25.66
120 2,3,4,6-Tetrachlorophenol	232	14.206	14.205	(1.042)	56016	23.8292	23.83
151 1,2,4,5-Tetrachlorobenzene	216	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 16-MAY-2022
 Lab File ID: NT622051702.D Calibration Time: 17:11
 Lab Smp Id: SKE0212-SCV1
 Analysis Type: SV Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Misc Info: 22-

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	71723	35862	143446	78743	9.79
27 Naphthalene-d8	255203	127602	510406	265327	3.97
42 Acenaphthene-d10	144799	72400	289598	154616	6.78
59 Phenanthrene-d10	257295	128648	514590	277010	7.66
69 Chrysene-d12	195882	97941	391764	212766	8.62
134 Di-n-octylphthala	272032	136016	544064	294742	8.35
77 Perylene-d12	222542	111271	445084	235601	5.87

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.71	8.21	9.21	8.70	-0.06
27 Naphthalene-d8	10.75	10.25	11.25	10.75	0.00
42 Acenaphthene-d10	13.62	13.12	14.12	13.63	0.04
59 Phenanthrene-d10	16.02	15.52	16.52	16.02	0.00
69 Chrysene-d12	20.36	19.86	20.86	20.36	0.00
134 Di-n-octylphthala	21.43	20.93	21.93	21.43	0.00
77 Perylene-d12	22.55	22.05	23.05	22.55	0.00

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

REVIEW SUMMARY FOR FILE - NT622051702.D

Lab ID: SKE0212-SCV1

nt6.i, SW84620220516.m, 17-MAY-2022 12:39

RT CO-ELUTION COMPOUNDS

13.373 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICV.sub = 0.0000

Exception: Total Benzofluoranthenes 0.5000

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



INITIAL CALIBRATION CHECK EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT6

Calibration: FE00035

Lab File ID: NT622071321A.D

Calibration Date: 05/16/2022

Sequence: SKG0132

Injection Date: 07/13/22

Lab Sample ID: SKG0132-ICV1

Injection Time: 22:06

Sequence Name: Initial Cal Check

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Naphthalene	A	25.000	25.1	0.8406287	0.8422496		0.2	+/-20
2-Methylnaphthalene	A	25.000	26.2	0.4800184	0.5026039		4.7	+/-20
Acenaphthene	A	25.000	23.4	0.9311408	0.8704663		-6.5	+/-20
Pentachlorophenol	A	25.000	19.7	0.1365836	0.1075946		-21.2	+/-20 *
Phenanthrene	A	25.000	23.7	0.8243973	0.7797865		-5.4	+/-20
Fluoranthene	A	25.000	25.6	0.9317361	0.9549264		2.5	+/-20
Benzo(a)anthracene	A	25.000	23.7	1.1089200	1.0503310		-5.3	+/-20
Chrysene	A	25.000	22.9	1.0187150	0.9326736		-8.4	+/-20
Benzo(b)fluoranthene	A	25.000	24.8	0.9873224	0.9804056		-0.7	+/-20
Benzo(k)fluoranthene	A	25.000	26.1	0.9892890	1.0309900		4.2	+/-20
Benzo(a)pyrene	A	25.000	23.8	0.9265235	0.8834184		-4.6	+/-20
Indeno(1,2,3-cd)pyrene	A	25.000	21.7	1.3542800	1.1749390		-13.2	+/-20
Dibenzo(a,h)anthracene	A	25.000	21.9	1.1328750	0.9907790		-12.6	+/-20
1-Methylnaphthalene	A	25.000	26.2	0.4530575	0.4744622		4.7	+/-20
2-Fluorophenol	A	37.500	41.8	1.0810010	1.2049660		11.5	+/-20
Phenol-d5	A	37.500	42.3	1.2365880	1.3936520		12.7	+/-20
2-Chlorophenol-d4	A	37.500	43.1	1.1176800	1.2858610		15.0	+/-20
1,2-Dichlorobenzene-d4	A	25.000	27.2	0.7998831	0.8714120		9.0	+/-20
Nitrobenzene-d5	A	25.000	29.2	0.3071168	0.3589395		16.9	+/-20
2-Fluorobiphenyl	A	25.000	26.6	1.2166750	1.2920720		6.2	+/-20
2,4,6-Tribromophenol	A	37.500	43.8	0.1701749	0.1985892		16.7	+/-20
p-Terphenyl-d14	A	25.000	25.2	0.9507950	0.9594632		0.9	+/-20
1,4-Dichlorobenzene-d4	A	20.000	20.0	3808.8640	1.0000		0.0	
Naphthalene-d8	A	20.000	20.0	13223.0900	1.0000		0.0	
Acenaphthene-d10	A	20.000	20.0	7659.6360	1.0000		0.0	
Phenanthrene-d10	A	20.000	20.0	13562.8200	1.0000		0.0	
Chrysene-d12	A	20.000	20.0	10045.3400	1.0000		0.0	
Di-n-Octylphthalate-d4	A	20.000	20.0	13884.2200	1.0000		0.0	
Perylene-d12	A	20.000	20.0	11515.9100	1.0000		0.0	

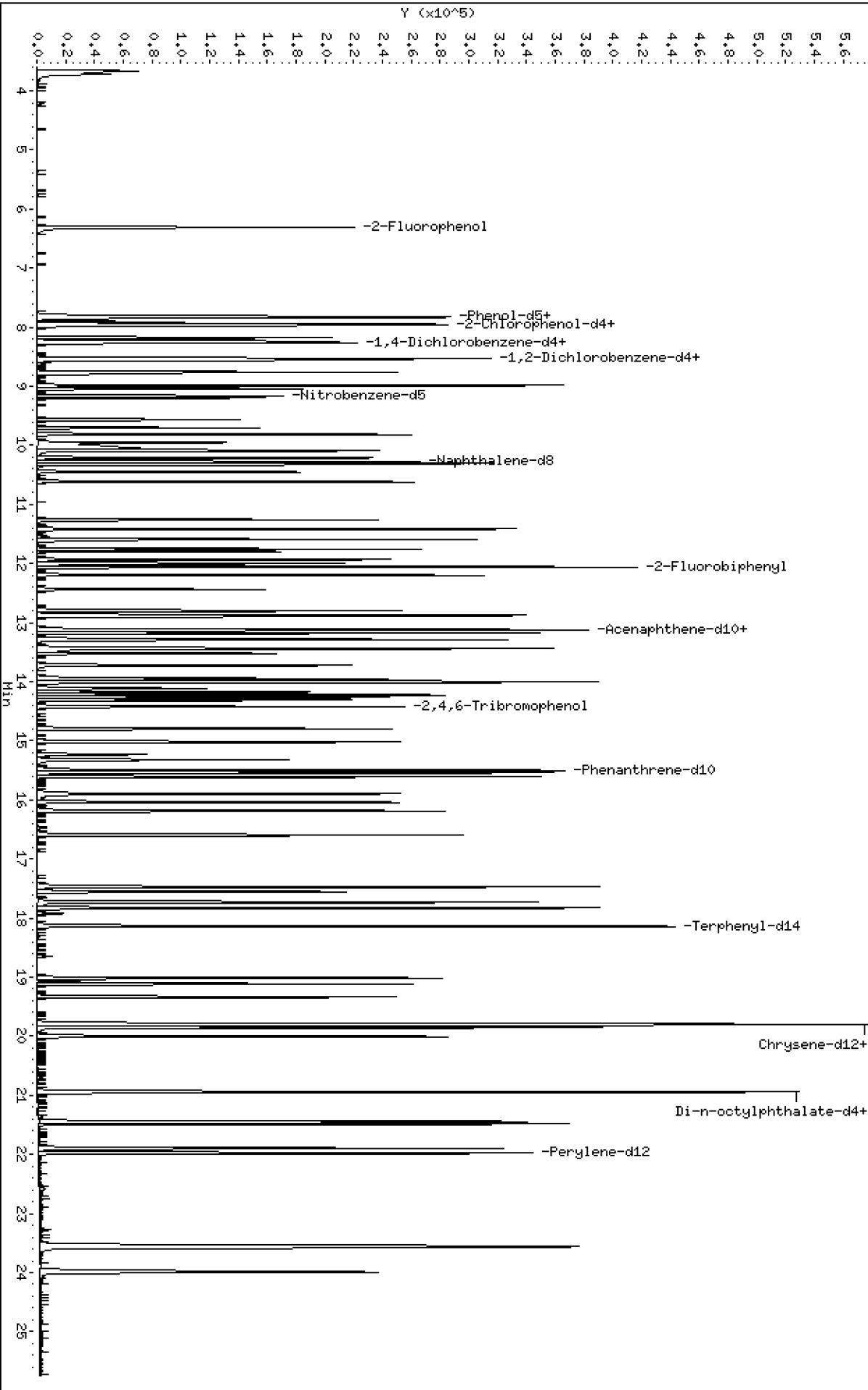
* Values outside of QC limits

Data File: \\target\share\chem3\nt6.1\20220713A,B\NT622071321A.D
Date: 13-JUL-2022 22:06
Client ID:
Sample Info: ICW220713A

Column phase: ZB-5msi

\\target\share\chem3\nt6.1\20220713A,B\NT622071321A.D

Instrument: nt6.1
Operator: JZ
Column diameter: 0.32



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220713A.b\NT622071321A.D
 Lab Smp Id: SKG0132-ICV1
 Inj Date : 13-JUL-2022 22:06
 Operator : JZ Inst ID: nt6.i
 Smp Info : ICV220713A
 Misc Info : 22-
 Comment : Iul Injection
 Method : \\target\share\chem3\nt6.i\20220713A.b\SW84620220516.m
 Meth Date : 14-Jul-2022 10:32 Jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 21 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALB.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.309	6.309	(0.766)	111061	37.5000	41.80
\$ 2 Phenol-d5	99		7.826	7.826	(0.950)	128452	37.5000	42.26
3 Phenol	94		7.842	7.842	(0.952)	78819	25.0000	22.31
\$ 5 2-Chlorophenol-d4	132		7.949	7.949	(0.965)	118517	37.5000	43.14
4 Bis(2-Chloroethyl)ether	93		7.906	7.906	(0.960)	51713	25.0000	24.26
6 2-Chlorophenol	128		7.970	7.970	(0.968)	69110	25.0000	23.96
7 1,3-Dichlorobenzene	146		8.173	8.173	(0.992)	73975	25.0000	24.68
* 8 1,4-Dichlorobenzene-d4	152		8.237	8.237	(1.000)	49157	20.0000	
9 1,4-Dichlorobenzene	146		8.259	8.259	(1.003)	72277	25.0000	24.72
\$ 10 1,2-Dichlorobenzene-d4	152		8.531	8.531	(1.036)	53545	25.0000	27.24
12 1,2-Dichlorobenzene	146		8.553	8.553	(1.038)	69349	25.0000	24.98
11 Benzyl alcohol	108		8.521	8.521	(1.034)	43249	25.0000	26.21
14 2,2'-oxybis(1-Chloropropane)	45		8.766	8.766	(1.064)	41068	25.0000	25.09
13 2-Methylphenol	108		8.756	8.756	(1.063)	60139	25.0000	25.14
17 Hexachloroethane	117		9.039	9.039	(1.097)	30065	25.0000	25.50
16 N-Nitroso-di-n-propylamine	70		8.985	8.985	(1.091)	42526	25.0000	26.61
15 4-Methylphenol	108		8.985	8.985	(1.091)	65288	25.0000	25.58
\$ 18 Nitrobenzene-d5	82		9.161	9.161	(0.892)	77727	25.0000	29.22
19 Nitrobenzene	77		9.194	9.194	(0.895)	64097	25.0000	25.37
20 Isophorone	82		9.567	9.567	(0.931)	86506	25.0000	27.01
21 2-Nitrophenol	139		9.706	9.706	(0.945)	39757	25.0000	25.43
22 2,4-Dimethylphenol	107		9.813	9.813	(0.955)	74090	25.0000	25.21
23 Bis(2-Chloroethoxy)methane	93		9.952	9.952	(0.969)	56719	25.0000	24.81
24 Benzoic acid	105		10.080	10.080	(0.981)	120883	50.0000	64.45
25 2,4-Dichlorophenol	162		10.091	10.091	(0.982)	59979	25.0000	25.05
26 1,2,4-Trichlorobenzene	180		10.214	10.214	(0.994)	67720	25.0000	24.82
* 27 Naphthalene-d8	136		10.272	10.272	(1.000)	173237	20.0000	
28 Naphthalene	128		10.304	10.304	(1.003)	182386	25.0000	25.05
29 4-Chloroaniline	127		10.449	10.449	(1.017)	73884	25.0000	24.69
30 Hexachlorobutadiene	225		10.614	10.614	(1.033)	46747	25.0000	26.55
31 4-Chloro-3-methylphenol	107		11.261	11.261	(1.096)	64811	25.0000	26.87
32 2-Methylnaphthalene	141		11.415	11.415	(1.111)	108837	25.0000	26.18
33 Hexachlorocyclopentadiene	237		11.795	11.795	(0.899)	42545	25.0000	20.14

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	11.934	11.934	(0.909)	50848	25.0000	23.32
35 2,4,5-Trichlorophenol	196	11.998	11.998	(0.914)	54904	25.0000	23.65
\$ 36 2-Fluorobiphenyl	172	12.056	12.056	(0.919)	188586	25.0000	26.55
37 2-Chloronaphthalene	162	12.195	12.195	(0.929)	129398	25.0000	22.88
38 2-Nitroaniline	65	12.436	12.436	(0.948)	34286	25.0000	23.98
39 Dimethylphthalate	163	12.799	12.799	(0.975)	160819	25.0000	25.99
40 Acenaphthylene	152	12.874	12.874	(0.981)	216908	25.0000	23.66
41 2,6-Dinitrotoluene	165	12.895	12.895	(0.983)	34341	25.0000	24.34
* 42 Acenaphthene-d10	164	13.125	13.125	(1.000)	116765	20.0000	
43 3-Nitroaniline	138	13.114	13.114	(0.999)	34600	25.0000	25.12
44 Acenaphthene	153	13.178	13.178	(1.004)	127050	25.0000	23.37
45 2,4-Dinitrophenol	184	13.274	13.274	(1.011)	26500	50.0000	31.70
46 Dibenzofuran	168	13.434	13.434	(1.024)	193670	25.0000	24.65
47 4-Nitrophenol	109	13.445	13.445	(1.024)	28342	25.0000	28.47
48 2,4-Dinitrotoluene	165	13.520	13.520	(1.030)	48224	25.0000	26.49
50 Diethylphthalate	149	13.947	13.947	(1.063)	159716	25.0000	26.72
49 Fluorene	166	13.995	13.995	(1.066)	154331	25.0000	24.56
51 4-Chlorophenyl-phenylether	204	14.017	14.017	(1.068)	87333	25.0000	24.76
52 4-Nitroaniline	138	14.113	14.113	(1.075)	31178	25.0000	25.03
53 4,6-Dinitro-2-methylphenol	198	14.177	14.177	(0.915)	49927	50.0000	39.12
54 N-Nitrosodiphenylamine	169	14.225	14.225	(0.918)	115795	25.0000	22.92
\$ 55 2,4,6-Tribromophenol	330	14.422	14.422	(1.099)	43478	37.5000	43.76
56 4-Bromophenyl-phenylether	248	14.796	14.796	(0.955)	51320	25.0000	23.44
57 Hexachlorobenzene	284	15.021	15.021	(0.969)	55619	25.0000	23.34
58 Pentachlorophenol	266	15.320	15.320	(0.988)	31352	25.0000	19.69
* 59 Phenanthrene-d10	188	15.501	15.501	(1.000)	233112	20.0000	
60 Phenanthrene	178	15.539	15.539	(1.002)	227222	25.0000	23.65
61 Anthracene	178	15.608	15.608	(1.007)	216079	25.0000	22.48
62 Carbazole	167	15.897	15.897	(1.025)	190025	25.0000	23.00
63 Di-n-butylphthalate	149	16.596	16.596	(1.071)	264097	25.0000	25.53
64 Fluoranthene	202	17.472	17.472	(1.127)	278256	25.0000	25.62
65 Pyrene	202	17.830	17.830	(0.900)	275709	25.0000	22.36
\$ 66 Terphenyl-d14	244	18.140	18.140	(0.915)	235589	25.0000	25.23
67 Butylbenzylphthalate	149	19.016	19.016	(0.960)	117101	25.0000	24.25
68 Benzo(a)anthracene	228	19.790	19.790	(0.999)	257901	25.0000	23.68
* 69 Chrysene-d12	240	19.817	19.817	(1.000)	196434	20.0000	
70 3,3'-Dichlorobenzidine	252	19.801	19.801	(0.999)	88121	25.0000	27.01
71 Chrysene	228	19.854	19.854	(1.002)	229011	25.0000	22.89
72 bis(2-Ethylhexyl)phthalate	149	20.004	20.004	(0.955)	149463	25.0000	24.11
* 134 Di-n-octylphthalate-d4	153	20.939	20.939	(1.000)	268008	20.0000	
73 Di-n-octylphthalate	149	20.949	20.949	(1.000)	258404	25.0000	23.10
74 Benzo(b)fluoranthene	252	21.446	21.446	(0.976)	245447	25.0000	24.82
75 Benzo(k)fluoranthene	252	21.483	21.483	(0.977)	258111	25.0000	26.05
187 Total Benzofluoranthenes	252	21.483	21.483	(0.977)	476757	50.0000	50.67
76 Benzo(a)pyrene	252	21.900	21.900	(0.996)	221166	25.0000	23.84
* 77 Perylene-d12	264	21.980	21.980	(1.000)	200282	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	23.550	23.550	(1.071)	294149	25.0000	21.69
79 Dibenzo(a,h)anthracene	278	23.572	23.572	(1.072)	248044	25.0000	21.86
80 Benzo(g,h,i)perylene	276	23.988	23.988	(1.091)	239740	25.0000	20.61
90 N-Nitrosodimethylamine	74	3.714	3.714	(0.451)	34903	25.0000	28.14
103 Pyridine	79	3.666	3.666	(0.445)	61415	25.0000	26.30
91 Aniline	93	7.800	7.800	(0.947)	77448	25.0000	21.32
105 1-methylnaphthalene	141	11.592	11.592	(1.128)	102743	25.0000	26.18
111 Azobenzene (1,2-DP-Hydrazine)	77	14.268	14.268	(0.920)	130210	25.0000	21.94

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
144 alpha-Terpineol	59		10.321	10.321	(1.005)	39609	25.0000	26.45
120 2,3,4,6-Tetrachlorophenol	232		13.723	13.723	(1.046)	43888	25.0000	24.72
151 1,2,4,5-Tetrachlorobenzene	216		11.757	11.757	(0.896)	74392	25.0000	23.21

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 13-JUL-2022
 Lab File ID: NT622071321A.D Calibration Time: 10:43
 Lab Smp Id: SKG0132-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220713A.b\SW84620220516.m
 Misc Info: 22-

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	71723	35862	143446	49157	-31.46
27 Naphthalene-d8	255203	127602	510406	173237	-32.12
42 Acenaphthene-d10	144799	72400	289598	116765	-19.36
59 Phenanthrene-d10	257295	128648	514590	233112	-9.40
69 Chrysene-d12	195882	97941	391764	196434	0.28
134 Di-n-octylphthala	272032	136016	544064	268008	-1.48
77 Perylene-d12	222542	111271	445084	200282	-10.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.24	7.74	8.74	8.24	0.00
27 Naphthalene-d8	10.27	9.77	10.77	10.27	0.00
42 Acenaphthene-d10	13.13	12.63	13.63	13.13	0.00
59 Phenanthrene-d10	15.50	15.00	16.00	15.50	0.00
69 Chrysene-d12	19.82	19.32	20.32	19.82	0.00
134 Di-n-octylphthala	20.94	20.44	21.44	20.94	0.00
77 Perylene-d12	21.98	21.48	22.48	21.98	0.00

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

REVIEW SUMMARY FOR FILE - NT622071321A.D

Lab ID: SKG0132-ICV1
nt6.i, SW84620220516.m, 13-JUL-2022 22:06

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICALB.sub = 0.0100

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

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt6.i\20220713A.b

Instrument: nt6.i Date: 13-JUL-2022 Method: SW84620220516.m

INITIAL CAL: 16-MAY-2022

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: NT622071321A.D 13-JUL-2022 22:06

Compound	%D

Benzoic acid	28.90
2,4-Dinitrophenol	-36.6
4,6-Dinitro-2-methylphenol	-21.77
Pentachlorophenol	-21.22



INITIAL CALIBRATION CHECK EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT6

Calibration: FE00035

Lab File ID: NT622071501.D

Calibration Date: 05/16/2022

Sequence: SKG0144

Injection Date: 07/15/22

Lab Sample ID: SKG0144-ICV1

Injection Time: 10:24

Sequence Name: Initial Cal Check

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Naphthalene	A	25.000	24.5	0.8406287	0.8221786		-2.2	+/-20
2-Methylnaphthalene	A	25.000	25.3	0.4800184	0.4863140		1.3	+/-20
Acenaphthene	A	25.000	23.2	0.9311408	0.8645377		-7.2	+/-20
Pentachlorophenol	A	25.000	22.5	0.1365836	0.1230142		-9.9	+/-20
Phenanthrene	A	25.000	23.7	0.8243973	0.7809434		-5.3	+/-20
Fluoranthene	A	25.000	25.3	0.9317361	0.9436477		1.3	+/-20
Benzo(a)anthracene	A	25.000	23.1	1.1089200	1.0233620		-7.7	+/-20
Chrysene	A	25.000	22.6	1.0187150	0.9226499		-9.4	+/-20
Benzo(b)fluoranthene	A	25.000	26.6	0.9873224	1.0489510		6.2	+/-20
Benzo(k)fluoranthene	A	25.000	23.5	0.9892890	0.9305461		-5.9	+/-20
Benzo(a)pyrene	A	25.000	23.7	0.9265235	0.8765689		-5.4	+/-20
Indeno(1,2,3-cd)pyrene	A	25.000	23.1	1.3542800	1.2533260		-7.4	+/-20
Dibenzo(a,h)anthracene	A	25.000	23.2	1.1328750	1.0495540		-7.4	+/-20
1-Methylnaphthalene	A	25.000	25.5	0.4530575	0.4619316		2.0	+/-20
2-Fluorophenol	A	37.500	42.3	1.0810010	1.2191030		12.8	+/-20
Phenol-d5	A	37.500	42.0	1.2365880	1.3833		11.9	+/-20
2-Chlorophenol-d4	A	37.500	43.2	1.1176800	1.2879700		15.2	+/-20
1,2-Dichlorobenzene-d4	A	25.000	27.5	0.7998831	0.8801861		10.0	+/-20
Nitrobenzene-d5	A	25.000	28.3	0.3071168	0.3475124		13.2	+/-20
2-Fluorobiphenyl	A	25.000	26.3	1.2166750	1.2802690		5.2	+/-20
2,4,6-Tribromophenol	A	37.500	44.1	0.1701749	0.2002215		17.7	+/-20
p-Terphenyl-d14	A	25.000	24.5	0.9507950	0.9323725		-1.9	+/-20
1,4-Dichlorobenzene-d4	A	20.000	20.0	3808.8640	1.0000		0.0	
Naphthalene-d8	A	20.000	20.0	13223.0900	1.0000		0.0	
Acenaphthene-d10	A	20.000	20.0	7659.6360	1.0000		0.0	
Phenanthrene-d10	A	20.000	20.0	13562.8200	1.0000		0.0	
Chrysene-d12	A	20.000	20.0	10045.3400	1.0000		0.0	
Di-n-Octylphthalate-d4	A	20.000	20.0	13884.2200	1.0000		0.0	
Perylene-d12	A	20.000	20.0	11515.9100	1.0000		0.0	

* Values outside of QC limits

Data File: \\target\share\chem3\nt6.1\20220715.B\NT622071501.D

Date: 15-JUL-2022 10:24

Client ID:

Sample Info: ICW220715

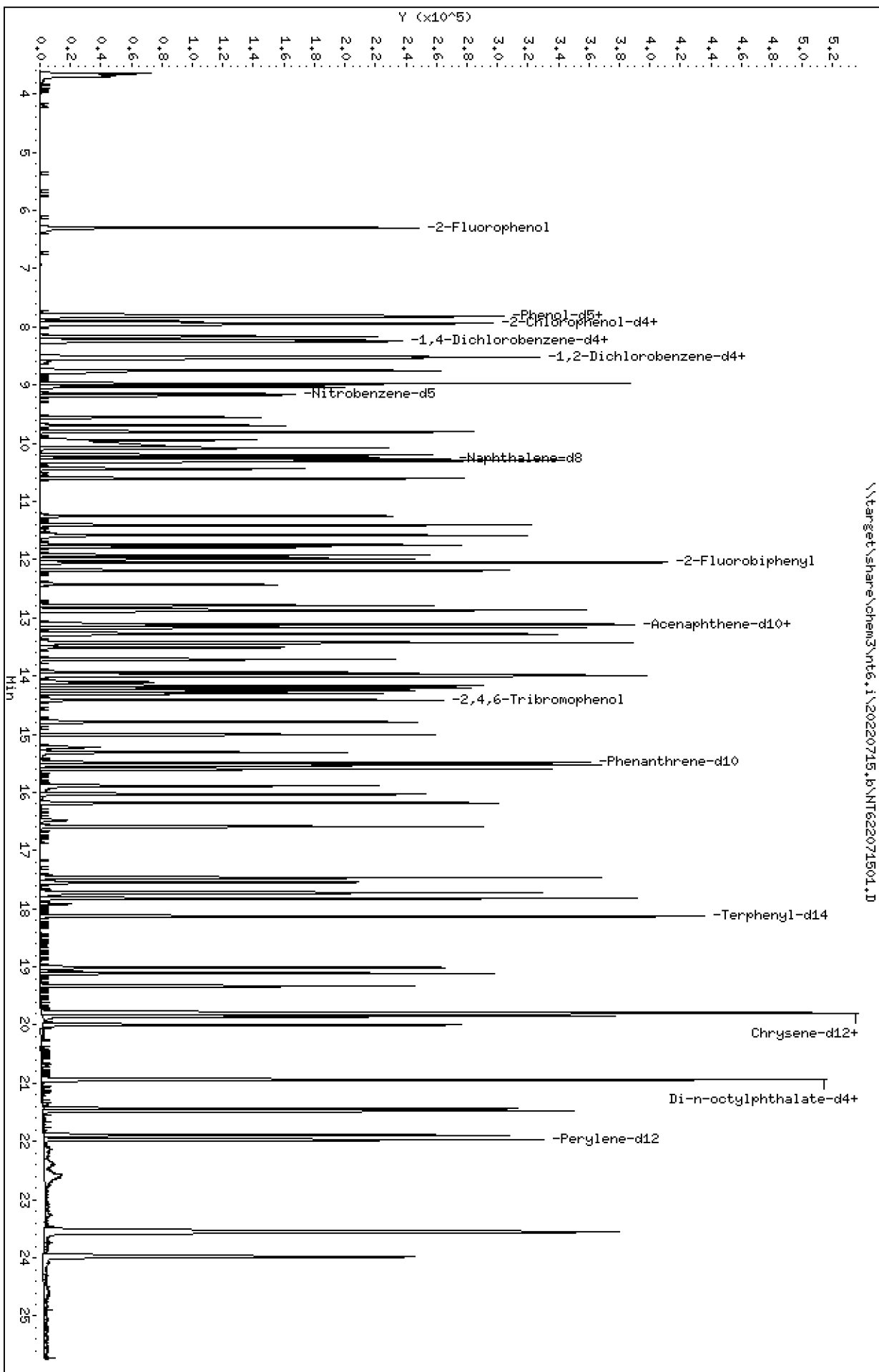
Column phase: ZB-5msi

Instrument: nt6.1

Operator: JZ

Column diameter: 0.32

\\target\share\chem3\nt6.1\20220715.B\NT622071501.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220715.b\NT622071501.D
 Lab Smp Id: SKG0144-ICV1
 Inj Date : 15-JUL-2022 10:24
 Operator : JZ Inst ID: nt6.i
 Smp Info : ICV220715
 Misc Info : 22-
 Comment : Iul Injection
 Method : \\target\share\chem3\nt6.i\20220715.b\SW84620220516.m
 Meth Date : 15-Jul-2022 16:28 Jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALA.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.297	6.297	(0.765)	118906	37.5000	42.29
\$ 2 Phenol-d5	99		7.813	7.813	(0.949)	134921	37.5000	41.95
3 Phenol	94		7.835	7.835	(0.952)	84207	25.0000	22.53
\$ 5 2-Chlorophenol-d4	132		7.942	7.942	(0.965)	125623	37.5000	43.21
4 Bis(2-Chloroethyl)ether	93		7.899	7.899	(0.960)	53361	25.0000	23.65
6 2-Chlorophenol	128		7.963	7.963	(0.968)	73506	25.0000	24.08
7 1,3-Dichlorobenzene	146		8.166	8.166	(0.992)	77243	25.0000	24.36
* 8 1,4-Dichlorobenzene-d4	152		8.230	8.230	(1.000)	52019	20.0000	
9 1,4-Dichlorobenzene	146		8.257	8.257	(1.003)	75708	25.0000	24.47
\$ 10 1,2-Dichlorobenzene-d4	152		8.524	8.524	(1.036)	57233	25.0000	27.51
12 1,2-Dichlorobenzene	146		8.545	8.545	(1.038)	73360	25.0000	24.98
11 Benzyl alcohol	108		8.513	8.513	(1.034)	45189	25.0000	25.88
14 2,2'-oxybis(1-Chloropropane)	45		8.759	8.759	(1.064)	43180	25.0000	24.93
13 2-Methylphenol	108		8.748	8.748	(1.063)	61516	25.0000	24.30
17 Hexachloroethane	117		9.031	9.031	(1.097)	31928	25.0000	25.59
16 N-Nitroso-di-n-propylamine	70		8.978	8.978	(1.091)	43831	25.0000	25.92
15 4-Methylphenol	108		8.978	8.978	(1.091)	68259	25.0000	25.27
\$ 18 Nitrobenzene-d5	82		9.154	9.154	(0.892)	79629	25.0000	28.29
19 Nitrobenzene	77		9.186	9.186	(0.895)	65372	25.0000	24.46
20 Isophorone	82		9.560	9.560	(0.931)	87112	25.0000	25.71
21 2-Nitrophenol	139		9.699	9.699	(0.945)	41944	25.0000	25.36
22 2,4-Dimethylphenol	107		9.806	9.806	(0.955)	78236	25.0000	25.16
23 Bis(2-Chloroethoxy)methane	93		9.944	9.944	(0.969)	58510	25.0000	24.19
24 Benzoic acid	105		10.057	10.057	(0.980)	105337	50.0000	53.08
25 2,4-Dichlorophenol	162		10.083	10.083	(0.982)	63376	25.0000	25.01
26 1,2,4-Trichlorobenzene	180		10.206	10.206	(0.994)	72487	25.0000	25.11
* 27 Naphthalene-d8	136		10.265	10.265	(1.000)	183312	20.0000	
28 Naphthalene	128		10.297	10.297	(1.003)	188394	25.0000	24.45
29 4-Chloroaniline	127		10.441	10.441	(1.017)	73603	25.0000	23.24
30 Hexachlorobutadiene	225		10.607	10.607	(1.033)	48841	25.0000	26.22
31 4-Chloro-3-methylphenol	107		11.253	11.253	(1.096)	66440	25.0000	26.03
32 2-Methylnaphthalene	141		11.413	11.413	(1.112)	111434	25.0000	25.33
33 Hexachlorocyclopentadiene	237		11.787	11.787	(0.899)	46449	25.0000	21.38

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	11.926	11.926	(0.909)	53730	25.0000	23.96
35 2,4,5-Trichlorophenol	196	11.990	11.990	(0.914)	57581	25.0000	24.11
\$ 36 2-Fluorobiphenyl	172	12.049	12.049	(0.919)	192186	25.0000	26.31
37 2-Chloronaphthalene	162	12.188	12.188	(0.929)	131419	25.0000	22.60
38 2-Nitroaniline	65	12.428	12.428	(0.947)	33709	25.0000	22.93
39 Dimethylphthalate	163	12.791	12.791	(0.975)	156631	25.0000	24.61
40 Acenaphthylene	152	12.866	12.866	(0.981)	221111	25.0000	23.45
41 2,6-Dinitrotoluene	165	12.887	12.887	(0.982)	35799	25.0000	24.67
* 42 Acenaphthene-d10	164	13.117	13.117	(1.000)	120091	20.0000	
43 3-Nitroaniline	138	13.106	13.106	(0.999)	32241	25.0000	22.76
44 Acenaphthene	153	13.170	13.170	(1.004)	129779	25.0000	23.21
45 2,4-Dinitrophenol	184	13.267	13.267	(1.011)	35107	50.0000	40.33
46 Dibenzofuran	168	13.427	13.427	(1.024)	193400	25.0000	23.94
47 4-Nitrophenol	109	13.427	13.427	(1.024)	27904	25.0000	27.25
48 2,4-Dinitrotoluene	165	13.518	13.518	(1.031)	46197	25.0000	24.67
50 Diethylphthalate	149	13.945	13.945	(1.063)	154804	25.0000	25.18
49 Fluorene	166	13.988	13.988	(1.066)	152993	25.0000	23.67
51 4-Chlorophenyl-phenylether	204	14.009	14.009	(1.068)	86437	25.0000	23.83
52 4-Nitroaniline	138	14.105	14.105	(1.075)	28424	25.0000	22.18
53 4,6-Dinitro-2-methylphenol	198	14.169	14.169	(0.915)	70243	50.0000	57.87
54 N-Nitrosodiphenylamine	169	14.217	14.217	(0.918)	108933	25.0000	22.67
\$ 55 2,4,6-Tribromophenol	330	14.415	14.415	(1.099)	45084	37.5000	44.12
56 4-Bromophenyl-phenylether	248	14.789	14.789	(0.954)	50575	25.0000	24.29
57 Hexachlorobenzene	284	15.008	15.008	(0.969)	55248	25.0000	24.38
58 Pentachlorophenol	266	15.312	15.312	(0.988)	34090	25.0000	22.52
* 59 Phenanthrene-d10	188	15.494	15.494	(1.000)	221698	20.0000	
60 Phenanthrene	178	15.531	15.531	(1.002)	216417	25.0000	23.68
61 Anthracene	178	15.601	15.601	(1.007)	208576	25.0000	22.82
62 Carbazole	167	15.889	15.889	(1.026)	159164	25.0000	20.26
63 Di-n-butylphthalate	149	16.589	16.589	(1.071)	248125	25.0000	25.22
64 Fluoranthene	202	17.470	17.470	(1.128)	261506	25.0000	25.32
65 Pyrene	202	17.823	17.823	(0.900)	258094	25.0000	22.01
\$ 66 Terphenyl-d14	244	18.132	18.132	(0.915)	217688	25.0000	24.52
67 Butylbenzylphthalate	149	19.014	19.014	(0.960)	111350	25.0000	24.25
68 Benzo(a)anthracene	228	19.783	19.783	(0.999)	238932	25.0000	23.07
* 69 Chrysene-d12	240	19.809	19.809	(1.000)	186782	20.0000	
70 3,3'-Dichlorobenzidine	252	19.793	19.793	(0.999)	78611	25.0000	25.34
71 Chrysene	228	19.852	19.852	(1.002)	215418	25.0000	22.64
72 bis(2-Ethylhexyl)phthalate	149	19.996	19.996	(0.955)	143391	25.0000	23.59
* 134 Di-n-octylphthalate-d4	153	20.931	20.931	(1.000)	262753	20.0000	
73 Di-n-octylphthalate	149	20.942	20.942	(1.000)	251716	25.0000	22.95
74 Benzo(b)fluoranthene	252	21.438	21.438	(0.976)	248823	25.0000	26.56
75 Benzo(k)fluoranthene	252	21.476	21.476	(0.977)	220736	25.0000	23.52
187 Total Benzofluoranthenes	252	21.476	21.476	(0.977)	445446	50.0000	49.97
76 Benzo(a)pyrene	252	21.892	21.892	(0.996)	207932	25.0000	23.65
* 77 Perylene-d12	264	21.973	21.973	(1.000)	189769	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	23.538	23.538	(1.071)	297303	25.0000	23.14
79 Dibenzo(a,h)anthracene	278	23.564	23.564	(1.072)	248966	25.0000	23.16
80 Benzo(g,h,i)perylene	276	23.981	23.981	(1.091)	251548	25.0000	22.82
90 N-Nitrosodimethylamine	74	3.695	3.695	(0.449)	35886	25.0000	27.34
103 Pyridine	79	3.647	3.647	(0.443)	61363	25.0000	24.84
91 Aniline	93	7.792	7.792	(0.947)	82827	25.0000	21.55
105 1-methylnaphthalene	141	11.584	11.584	(1.129)	105847	25.0000	25.49
93 Benzidine	184	17.726	17.726	(0.895)	84142	50.0000	26.72

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
111 Azobenzene (1,2-DP-Hydrazine)	77		14.260	14.260	(0.920)	129248	25.0000	22.90
144 alpha-Terpineol	59		10.313	10.313	(1.005)	40103	25.0000	25.31
133 Butylatedhydroxytoluene	205		13.283	13.283	(1.013)	131055	25.0000	20.56
115 Tributyl Phosphate	99		14.303	14.303	(0.923)	147409	25.0000	23.15
116 Dibutyl Phenyl Phosphate	175		16.033	16.033	(1.035)	118977	25.0000	25.05
117 Butyl Diphenyl Phosphate	94		17.726	17.726	(0.895)	33405	25.0000	22.10
118 Triphenyl Phosphate	326		19.329	19.329	(0.976)	42613	25.0000	23.08
120 2,3,4,6-Tetrachlorophenol	232		13.715	13.715	(1.046)	45375	25.0000	24.85
151 1,2,4,5-Tetrachlorobenzene	216		11.750	11.750	(0.896)	75697	25.0000	22.97

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 13-JUL-2022
 Lab File ID: NT622071501.D Calibration Time: 22:06
 Lab Smp Id: SKG0144-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220715.b\SW84620220516.m
 Misc Info: 22-

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	71723	35862	143446	52019	-27.47
27 Naphthalene-d8	255203	127602	510406	183312	-28.17
42 Acenaphthene-d10	144799	72400	289598	120091	-17.06
59 Phenanthrene-d10	257295	128648	514590	221698	-13.84
69 Chrysene-d12	195882	97941	391764	186782	-4.65
134 Di-n-octylphthala	272032	136016	544064	262753	-3.41
77 Perylene-d12	222542	111271	445084	189769	-14.73

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.23	7.73	8.73	8.23	0.00
27 Naphthalene-d8	10.27	9.77	10.77	10.27	0.00
42 Acenaphthene-d10	13.12	12.62	13.62	13.12	0.00
59 Phenanthrene-d10	15.49	14.99	15.99	15.49	0.00
69 Chrysene-d12	19.81	19.31	20.31	19.81	0.00
134 Di-n-octylphthala	20.93	20.43	21.43	20.93	0.00
77 Perylene-d12	21.97	21.47	22.47	21.97	0.00

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

REVIEW SUMMARY FOR FILE - NT622071501.D

Lab ID: SKG0144-ICV1
nt6.i, SW84620220516.m, 15-JUL-2022 10:24

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICALA.sub = 0.0100

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

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt6.i\20220715.b

Instrument: nt6.i Date: 15-JUL-2022 Method: SW84620220516.m

INITIAL CAL: 16-MAY-2022

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: NT622071501.D 15-JUL-2022 10:24

Compound	%D

Benzidine	-46.56



**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT6

Calibration: FE00035

Lab File ID: NT622051702.D

Calibration Date: 05/16/2022

Sequence: SKE0212

Injection Date: 05/17/22

Lab Sample ID: SKE0212-SCV1

Injection Time: 12:39

Sequence Name: Secondary Cal Check

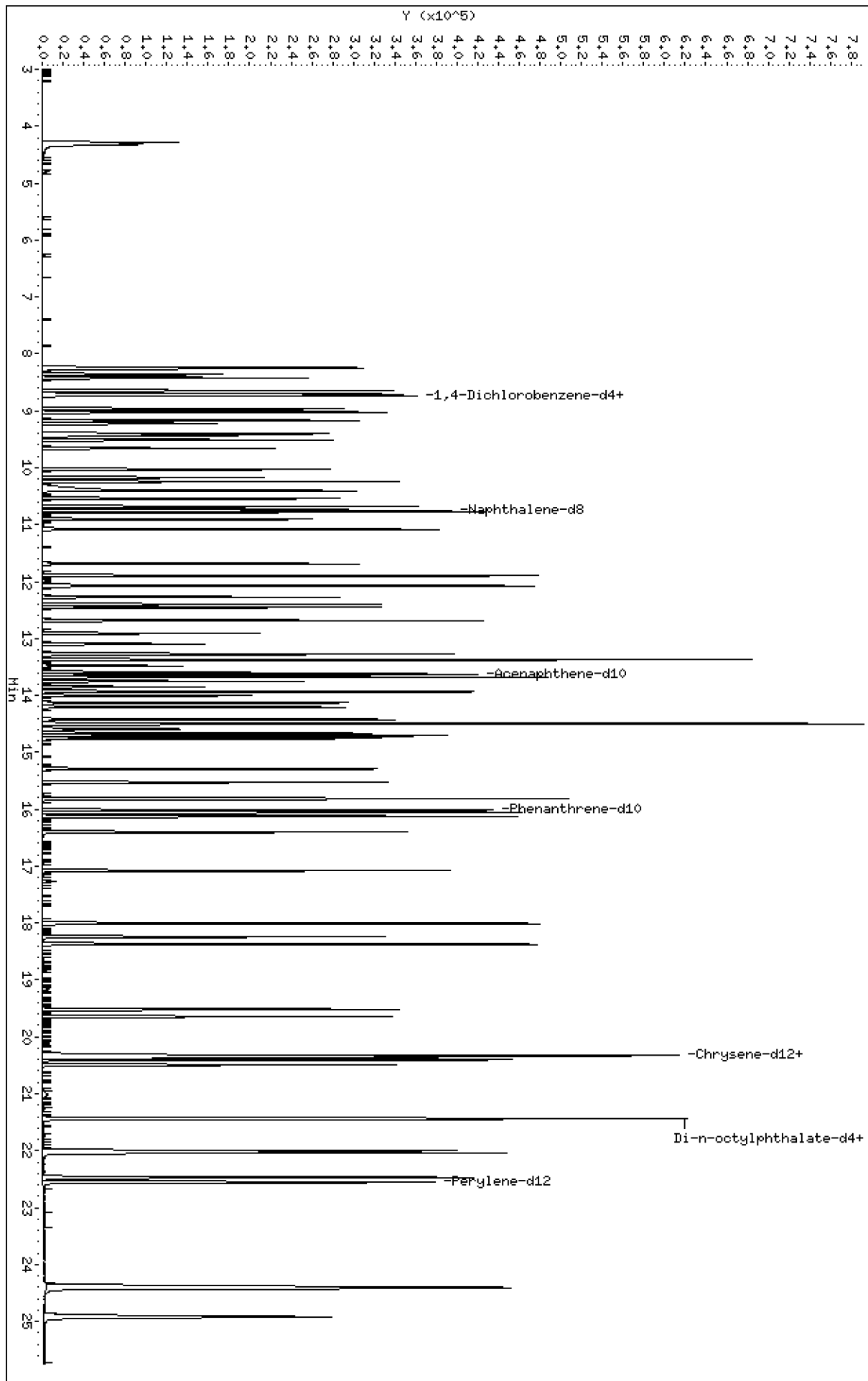
COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Naphthalene	A	25.000	24.6	0.8406287	0.8287223		-1.4	+/-20
2-Methylnaphthalene	A	25.000	24.5	0.4800184	0.4713580		-1.8	+/-20
Acenaphthene	A	25.000	24.1	0.9311408	0.8992911		-3.4	+/-20
Pentachlorophenol	A	50.000	46.2	0.1365836	0.1261846		-7.6	+/-20
Phenanthrene	A	25.000	24.3	0.8243973	0.8021140		-2.7	+/-20
Fluoranthene	A	25.000	24.9	0.9317361	0.9293816		-0.3	+/-20
Benzo(a)anthracene	A	25.000	23.9	1.1089200	1.0611770		-4.3	+/-20
Chrysene	A	25.000	23.5	1.0187150	0.9574086		-6.0	+/-20
Benzo(b)fluoranthene	A	25.000	25.0	0.9873224	0.9883116		0.1	+/-20
Benzo(k)fluoranthene	A	25.000	24.5	0.9892890	0.9702573		-1.9	+/-20
Benzo(a)pyrene	A	25.000	25.6	0.9265235	0.9496666		2.5	+/-20
Indeno(1,2,3-cd)pyrene	A	25.000	23.9	1.3542800	1.2920730		-4.6	+/-20
Dibenzo(a,h)anthracene	A	25.000	24.2	1.1328750	1.0951120		-3.3	+/-20
1-Methylnaphthalene	A	25.000	26.0	0.4530575	0.4705710		3.9	+/-20

* Values outside of QC limits

Data File: \\target\share\chem3\nt6.1\20220516.b\N1622051702.D
Date: 17-May-2022 12:39
Client ID:
Sample Info: SKE0212-SCV1
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.1
Operator: JZ
Column diameter: 0.32

\\target\share\chem3\nt6.1\20220516.b\N1622051702.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220516.b\NT622051702.D
 Lab Smp Id: SKE0212-SCV1
 Inj Date : 17-MAY-2022 12:39
 Operator : JZ Inst ID: nt6.i
 Smp Info : SKE0212-SCV1
 Misc Info : 22-
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Meth Date : 17-May-2022 13:05 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 2 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICV.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/L)
3 Phenol	94	8.240	8.250	(0.947)	132250	23.3708	23.37
4 Bis(2-Chloroethyl)ether	93	8.362	8.368	(0.961)	92614	27.1217	27.12
6 2-Chlorophenol	128	8.421	8.426	(0.967)	105289	22.7881	22.79
7 1,3-Dichlorobenzene	146	8.646	8.651	(0.993)	118625	24.7114	24.71
* 8 1,4-Dichlorobenzene-d4	152	8.704	8.709	(1.000)	78743	20.0000	
9 1,4-Dichlorobenzene	146	8.731	8.736	(1.003)	119878	25.6001	25.60
11 Benzyl alcohol	108	8.966	8.966	(1.030)	67360	25.4868	25.49
12 1,2-Dichlorobenzene	146	9.025	9.030	(1.037)	110097	24.7613	24.76
13 2-Methylphenol	108	9.169	9.174	(1.053)	88639	23.1271	23.13
14 2,2'-oxybis(1-Chloropropane)	45	9.222	9.222	(1.060)	75291	28.7192	28.72
15 4-Methylphenol	108	9.404	9.404	(1.080)	92693	22.6736	22.67
16 N-Nitroso-di-n-propylamine	70	9.436	9.441	(1.084)	62621	24.4606	24.46
17 Hexachloroethane	117	9.511	9.516	(1.093)	47310	25.0523	25.05
19 Nitrobenzene	77	9.660	9.660	(0.899)	98500	25.4579	25.46
20 Isophorone	82	10.029	10.034	(0.933)	170367	34.7325	34.73
21 2-Nitrophenol	139	10.173	10.173	(0.946)	56975	23.7990	23.80
22 2,4-Dimethylphenol	107	10.243	10.248	(0.953)	96910	21.5306	21.53
23 Bis(2-Chloroethoxy)methane	93	10.403	10.408	(0.968)	101564	29.0079	29.01
24 Benzoic acid	105	10.403	10.461	(0.968)	63982	22.2733	22.27
25 2,4-Dichlorophenol	162	10.542	10.541	(0.981)	84571	23.0596	23.06
26 1,2,4-Trichlorobenzene	180	10.686	10.686	(0.994)	101833	24.3683	24.37
* 27 Naphthalene-d8	136	10.750	10.750	(1.000)	265327	20.0000	

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
28 Naphthalene	128	10.782	10.782	(1.003)	274853	24.6459	24.65
29 4-Chloroaniline	127	10.905	10.910	(1.014)	103579	22.5983	22.60
30 Hexachlorobutadiene	225	11.081	11.081	(1.031)	67351	24.9799	24.98
31 4-Chloro-3-methylphenol	107	11.685	11.690	(1.087)	85820	23.2333	23.23
32 2-Methylnaphthalene	141	11.898	11.898	(1.107)	156330	24.5490	24.55
33 Hexachlorocyclopentadiene	237	12.272	12.272	(0.900)	70024	25.0388	25.04
34 2,4,6-Trichlorophenol	196	12.400	12.405	(0.910)	67694	23.4453	23.45
35 2,4,5-Trichlorophenol	196	12.454	12.459	(0.914)	72670	23.6353	23.64
37 2-Chloronaphthalene	162	12.683	12.688	(0.931)	184108	24.5865	24.59
38 2-Nitroaniline	65	12.908	12.913	(0.947)	46209	24.4113	24.41
39 Dimethylphthalate	163	13.271	13.271	(0.974)	204613	24.9692	24.97
40 Acenaphthylene	152	13.372	13.372	(0.981)	296941	24.4572	24.46
41 2,6-Dinitrotoluene	165	13.372	13.372	(0.981)	48513	25.9702	25.97
* 42 Acenaphthene-d10	164	13.629	13.623	(1.000)	154616	20.0000	
43 3-Nitroaniline	138	13.591	13.591	(0.997)	47182	25.8647	25.86
44 Acenaphthene	153	13.677	13.677	(1.004)	173806	24.1449	24.14
45 2,4-Dinitrophenol	184	13.757	13.757	(1.009)	58271	51.1473	51.15
46 Dibenzofuran	168	13.939	13.938	(1.023)	263210	25.3013	25.30
47 4-Nitrophenol	109	13.853	13.853	(1.016)	32165	24.3965	24.40
48 2,4-Dinitrotoluene	165	14.008	14.008	(1.028)	61875	25.6652	25.67
49 Fluorene	166	14.499	14.499	(1.064)	203057	24.4005	24.40
50 Diethylphthalate	149	14.425	14.424	(1.058)	206605	26.1014	26.10
51 4-Chlorophenyl-phenylether	204	14.505	14.504	(1.064)	117904	25.2475	25.25
52 4-Nitroaniline	138	14.596	14.595	(1.071)	41071	24.8962	24.90
53 4,6-Dinitro-2-methylphenol	198	14.665	14.665	(0.916)	81088	53.4614	53.46
54 N-Nitrosodiphenylamine	169	14.708	14.713	(0.918)	147244	24.5229	24.52
56 4-Bromophenyl-phenylether	248	15.295	15.295	(0.955)	65927	25.3362	25.34
57 Hexachlorobenzene	284	15.530	15.530	(0.970)	69479	24.5349	24.53
58 Pentachlorophenol	266	15.819	15.818	(0.988)	87386	46.1932	46.19
* 59 Phenanthrene-d10	188	16.016	16.016	(1.000)	277010	20.0000	
60 Phenanthrene	178	16.059	16.053	(1.003)	277742	24.3243	24.32
61 Anthracene	178	16.128	16.128	(1.007)	278521	24.3856	24.39
62 Carbazole	167	16.401	16.400	(1.024)	227640	23.1864	23.19
63 Di-n-butylphthalate	149	17.079	17.079	(1.066)	317988	25.8648	25.86
64 Fluoranthene	202	18.008	18.008	(1.124)	321810	24.9368	24.94
65 Pyrene	202	18.372	18.371	(0.902)	324542	24.2952	24.30
67 Butylbenzylphthalate	149	19.520	19.520	(0.959)	135550	25.9190	25.92
68 Benzo(a)anthracene	228	20.332	20.337	(0.998)	282228	23.9237	23.92
* 69 Chrysene-d12	240	20.364	20.364	(1.000)	212766	20.0000	
70 3,3'-Dichlorobenzidine	252	20.326	20.326	(0.998)	94354	26.7032	26.70
71 Chrysene	228	20.401	20.401	(1.002)	254630	23.4955	23.50
72 bis(2-Ethylhexyl)phthalate	149	20.492	20.492	(0.956)	176532	25.8894	25.89
* 134 Di-n-octylphthalate-d4	153	21.432	21.432	(1.000)	294742	20.0000	
73 Di-n-octylphthalate	149	21.443	21.437	(1.000)	314040	25.5294	25.53
74 Benzo(b)fluoranthene	252	22.004	22.003	(0.976)	291059	25.0250	25.03
75 Benzo(k)fluoranthene	252	22.036	22.035	(0.977)	285742	24.5191	24.52
187 Total Benzofluoranthenes	252	22.036	22.035	(0.977)	552757	49.9421	49.94
76 Benzo(a)pyrene	252	22.468	22.468	(0.996)	279678	25.6245	25.62
* 77 Perylene-d12	264	22.554	22.553	(1.000)	235601	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	24.391	24.391	(1.081)	380517	23.8517	23.85
79 Dibenzo(a,h)anthracene	278	24.418	24.412	(1.083)	322512	24.1667	24.17
80 Benzo(g,h,i)perylene	276	24.920	24.925	(1.105)	324816	23.7382	23.74
90 N-Nitrosodimethylamine	74	4.325	4.335	(0.497)	57797	29.0876	29.09
91 Aniline	93	8.261	8.261	(0.949)	156829	26.9505	26.95

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ug/mL)	FINAL (ug/L)	
105 1-methylnaphthalene	141	12.075	12.074	(1.123)	156069	25.9664	25.97	
111 Azobenzene (1,2-DP-Hydrazine)	77	14.761	14.761	(0.922)	172739	24.4930	24.49	
93 Benzidine	184	18.243	18.243	(0.896)	206124	57.4619	57.46	
103 Pyridine	79	4.287	4.298	(0.493)	95963	25.6591	25.66	
120 2,3,4,6-Tetrachlorophenol	232	14.206	14.205	(1.042)	56016	23.8292	23.83	
151 1,2,4,5-Tetrachlorobenzene	216	Compound Not Detected.						

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 16-MAY-2022
 Lab File ID: NT622051702.D Calibration Time: 17:11
 Lab Smp Id: SKE0212-SCV1
 Analysis Type: SV Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220516.b\SW84620220516.m
 Misc Info: 22-

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	71723	35862	143446	78743	9.79
27 Naphthalene-d8	255203	127602	510406	265327	3.97
42 Acenaphthene-d10	144799	72400	289598	154616	6.78
59 Phenanthrene-d10	257295	128648	514590	277010	7.66
69 Chrysene-d12	195882	97941	391764	212766	8.62
134 Di-n-octylphthala	272032	136016	544064	294742	8.35
77 Perylene-d12	222542	111271	445084	235601	5.87

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.71	8.21	9.21	8.70	-0.06
27 Naphthalene-d8	10.75	10.25	11.25	10.75	0.00
42 Acenaphthene-d10	13.62	13.12	14.12	13.63	0.04
59 Phenanthrene-d10	16.02	15.52	16.52	16.02	0.00
69 Chrysene-d12	20.36	19.86	20.86	20.36	0.00
134 Di-n-octylphthala	21.43	20.93	21.93	21.43	0.00
77 Perylene-d12	22.55	22.05	23.05	22.55	0.00

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

REVIEW SUMMARY FOR FILE - NT622051702.D

Lab ID: SKE0212-SCV1

nt6.i, SW84620220516.m, 17-MAY-2022 12:39

RT CO-ELUTION COMPOUNDS

13.373 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICV.sub = 0.0000

Exception: Total Benzofluoranthenes 0.5000

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



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT6

Calibration: FE00035

Lab File ID: NT622071328.D

Calibration Date: 05/16/2022

Sequence: SKG0132

Injection Date: 07/14/22

Lab Sample ID: SKG0132-CCV1

Injection Time: 02:02

Sequence Name: Calibration Check

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Naphthalene	A	25.000	24.6	0.8406287	0.8258084		-1.8	+/-50
2-Methylnaphthalene	A	25.000	25.5	0.4800184	0.4887864		1.8	+/-50
Acenaphthene	A	25.000	22.8	0.9311408	0.8508424		-8.6	+/-50
Pentachlorophenol	A	25.000	22.0	0.1365836	0.1202689		-11.9	+/-50
Phenanthrene	A	25.000	23.6	0.8243973	0.7782751		-5.6	+/-50
Fluoranthene	A	25.000	25.7	0.9317361	0.9561543		2.6	+/-50
Benzo(a)anthracene	A	25.000	23.3	1.1089200	1.0341290		-6.7	+/-50
Chrysene	A	25.000	22.5	1.0187150	0.9179453		-9.9	+/-50
Benzo(b)fluoranthene	A	25.000	24.8	0.9873224	0.9806853		-0.7	+/-50
Benzo(k)fluoranthene	A	25.000	25.0	0.9892890	0.9887848		-0.05	+/-50
Benzo(a)pyrene	A	25.000	23.9	0.9265235	0.8840107		-4.6	+/-50
Indeno(1,2,3-cd)pyrene	A	25.000	20.9	1.3542800	1.1303960		-16.5	+/-50
Dibenzo(a,h)anthracene	A	25.000	21.3	1.1328750	0.9640096		-14.9	+/-50
1-Methylnaphthalene	A	25.000	26.0	0.4530575	0.4709569		4.0	+/-50
2-Fluorophenol	A	37.500	42.1	1.0810010	1.2130720		12.2	+/-50
Phenol-d5	A	37.500	42.3	1.2365880	1.3936530		12.7	+/-50
2-Chlorophenol-d4	A	37.500	43.2	1.1176800	1.2889810		15.3	+/-50
1,2-Dichlorobenzene-d4	A	25.000	27.8	0.7998831	0.8896009		11.2	+/-50
Nitrobenzene-d5	A	25.000	28.6	0.3071168	0.3518043		14.6	+/-50
2-Fluorobiphenyl	A	25.000	25.9	1.2166750	1.2611910		3.7	+/-50
2,4,6-Tribromophenol	A	37.500	46.2	0.1701749	0.2096097		23.2	+/-50
p-Terphenyl-d14	A	25.000	25.0	0.9507950	0.9520170		0.1	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt6.1\20220713A.1\NT622071328.D

Date: 14-JUL-2022 02:02

Client ID:

Sample Info: CCV220713A

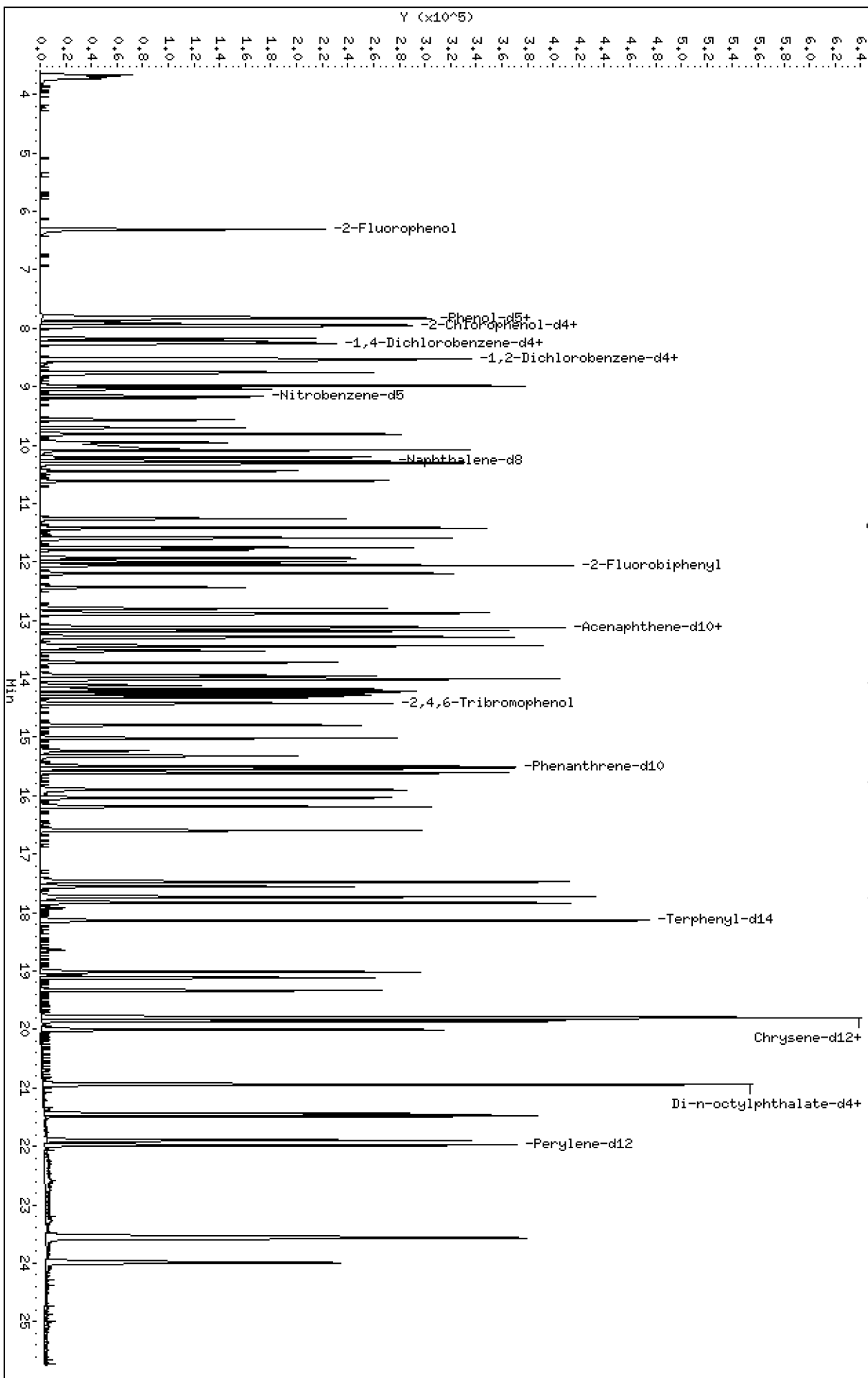
Column phase: ZB-5msi

Instrument: nt6.1

Operator: JZ

Column diameter: 0.32

\\target\share\chem3\nt6.1\20220713A.1\NT622071328.D



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

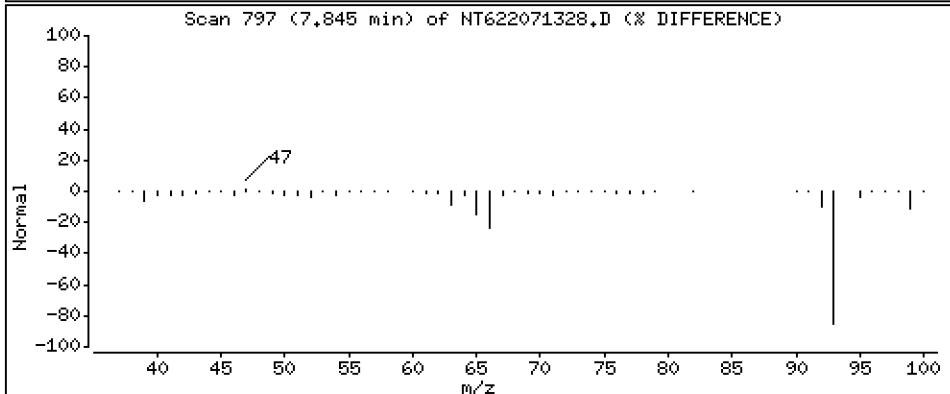
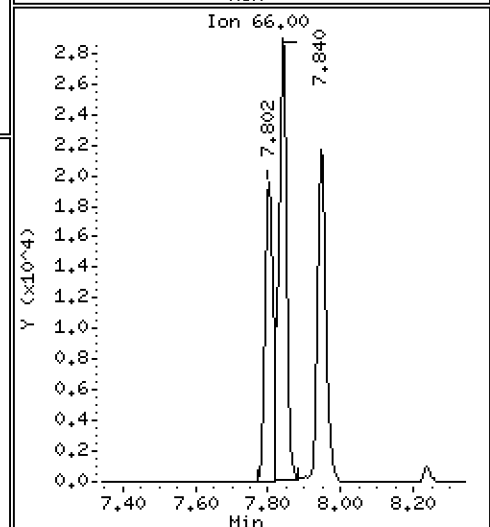
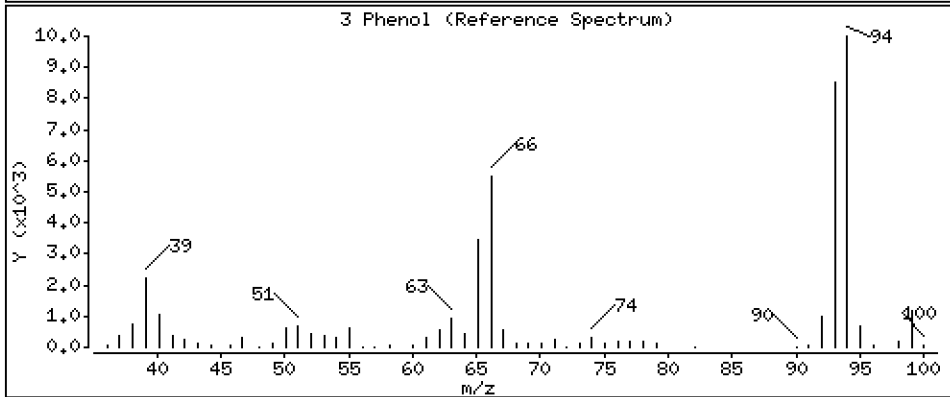
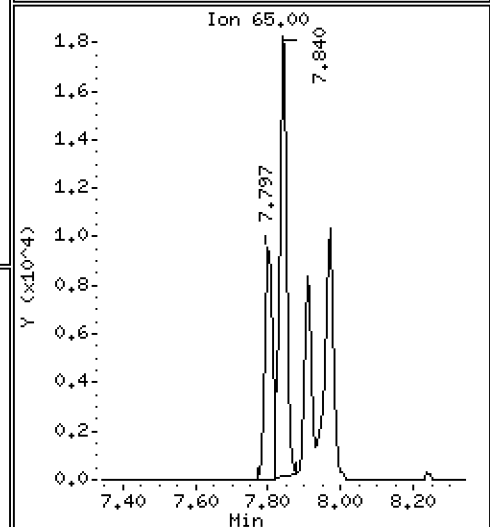
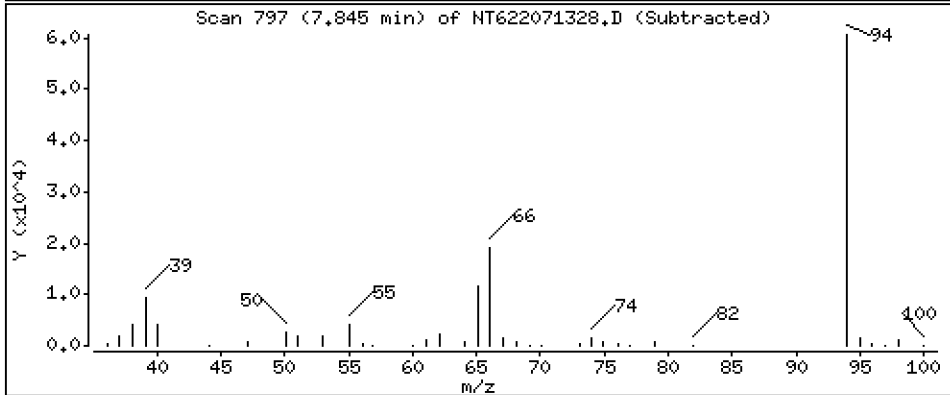
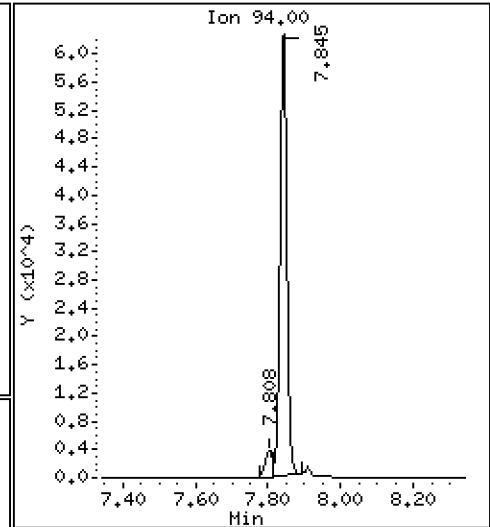
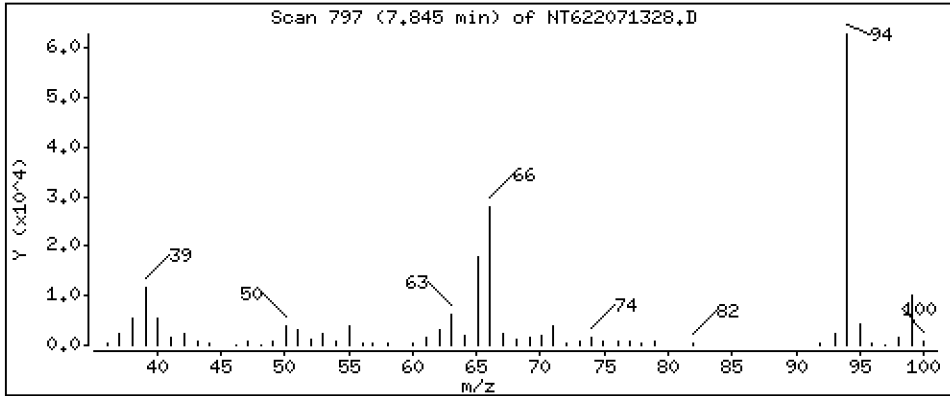
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

3 Phenol

Concentration: 22.52 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

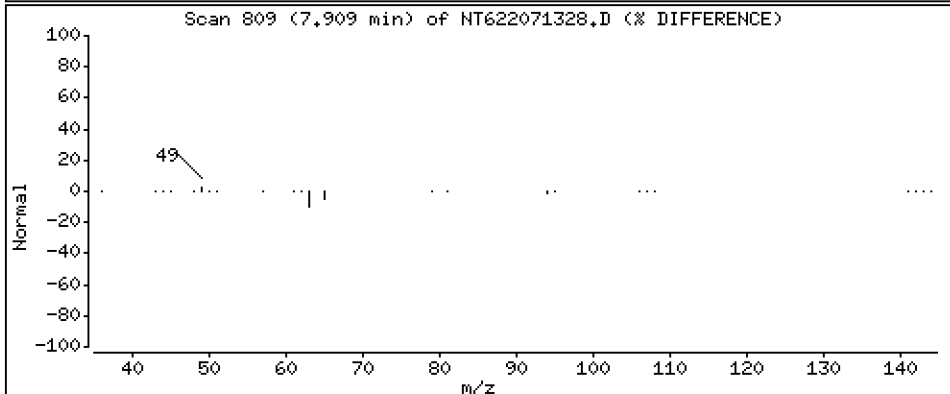
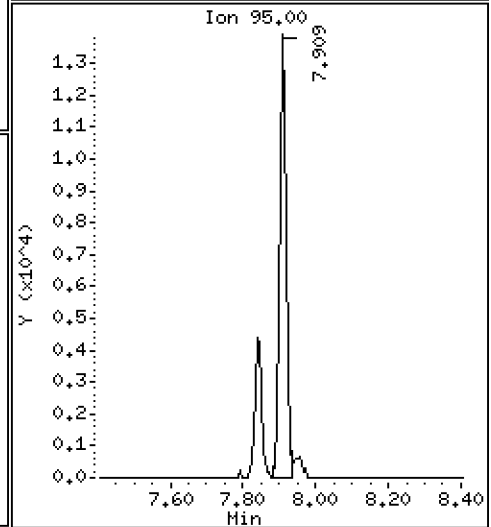
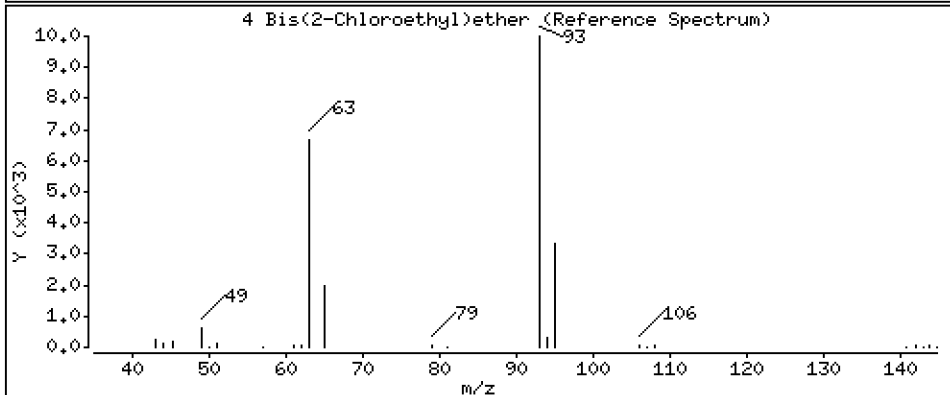
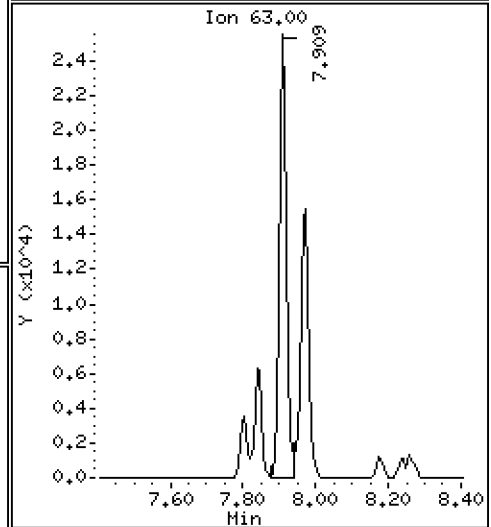
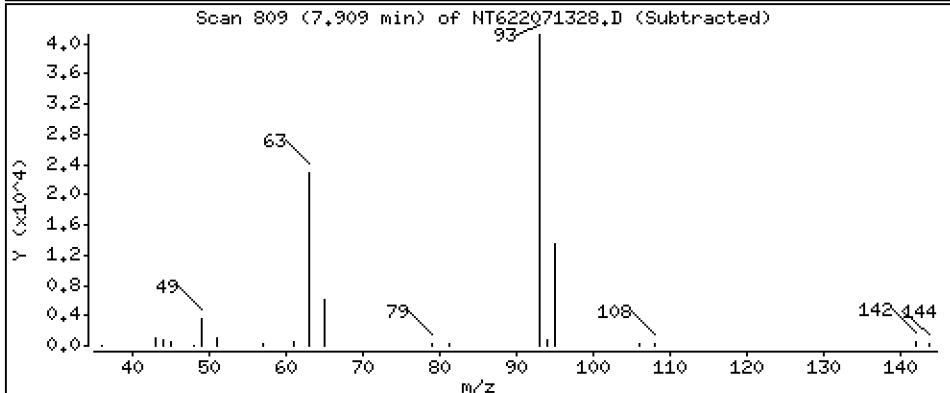
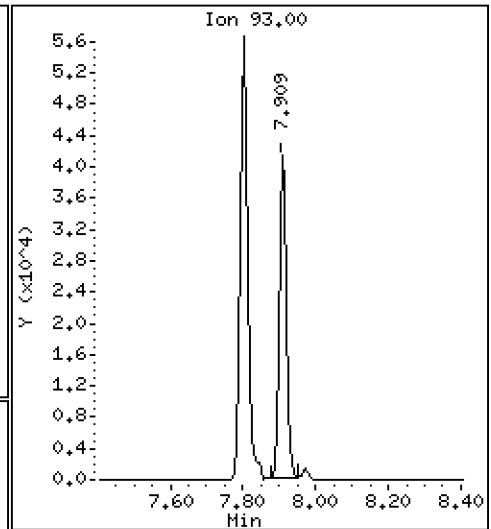
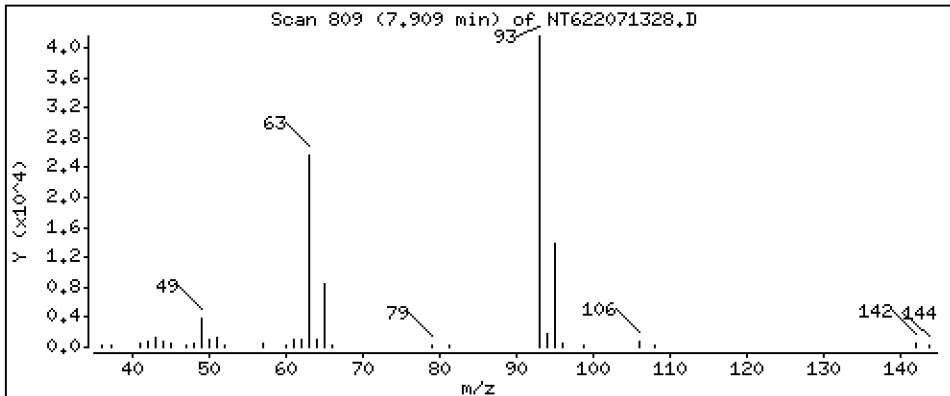
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

4 Bis(2-Chloroethyl)ether

Concentration: 24.95 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

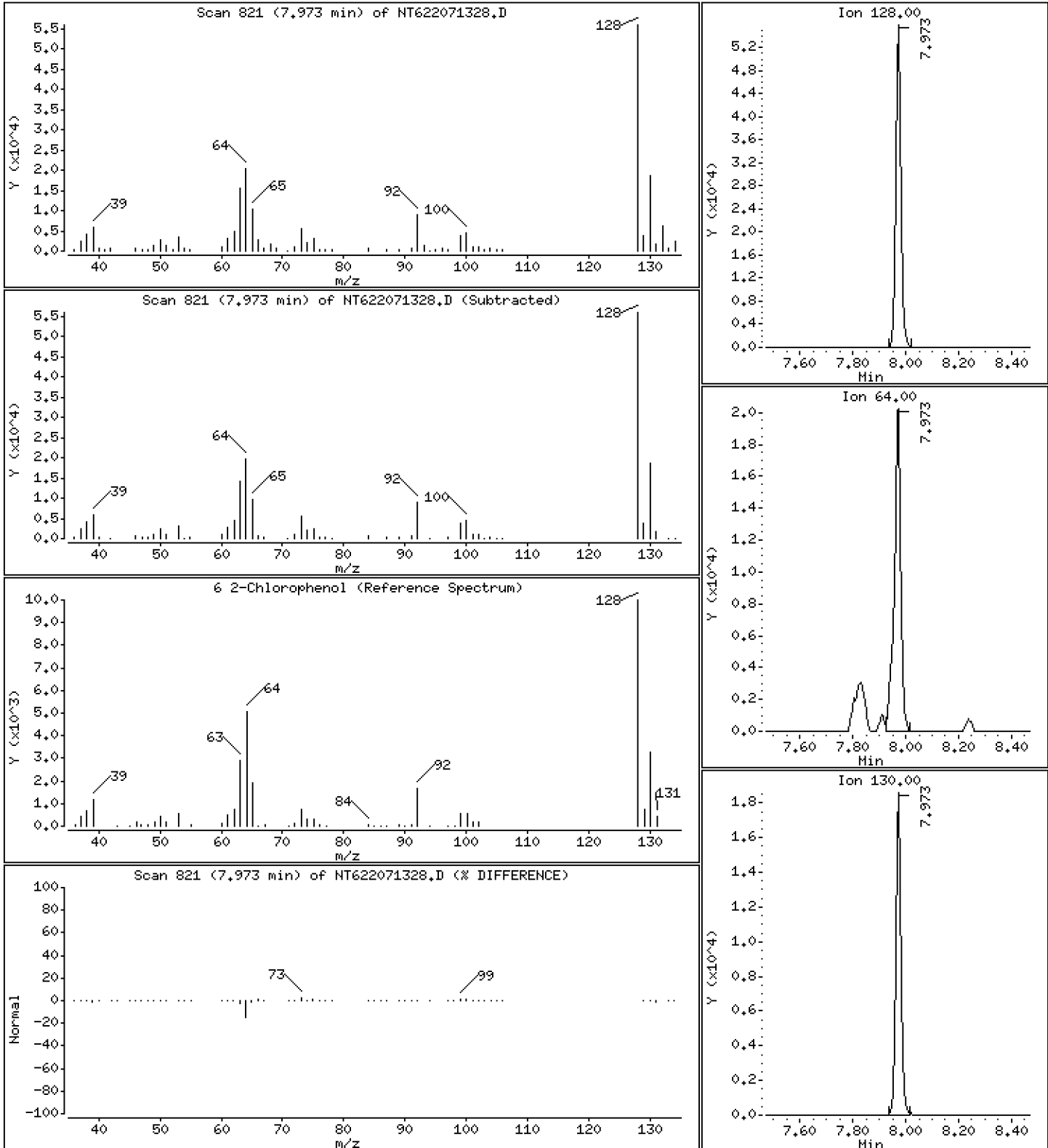
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

6 2-Chlorophenol

Concentration: 24.91 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

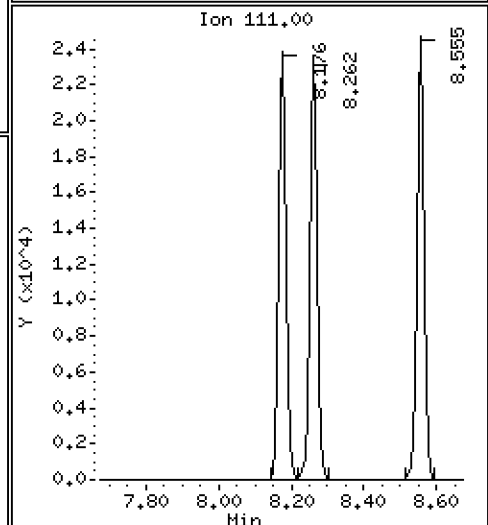
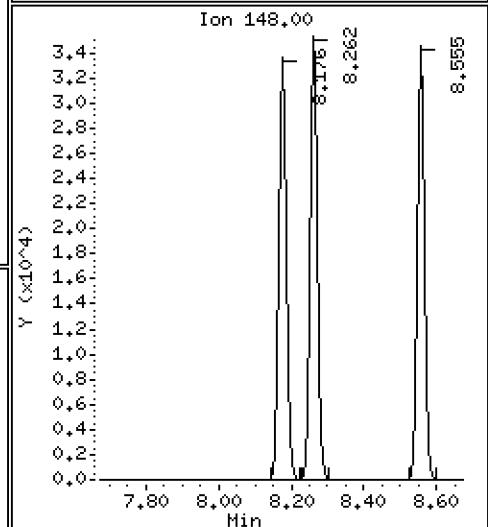
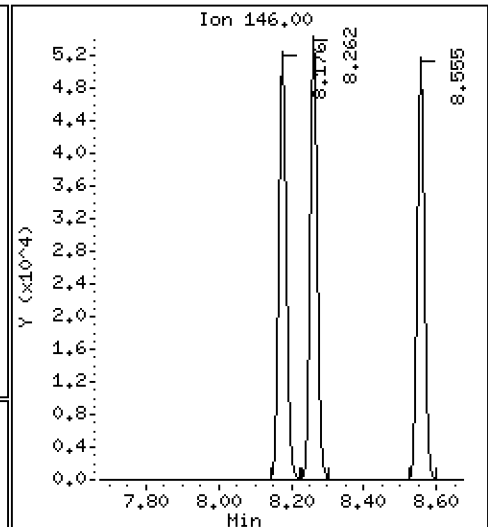
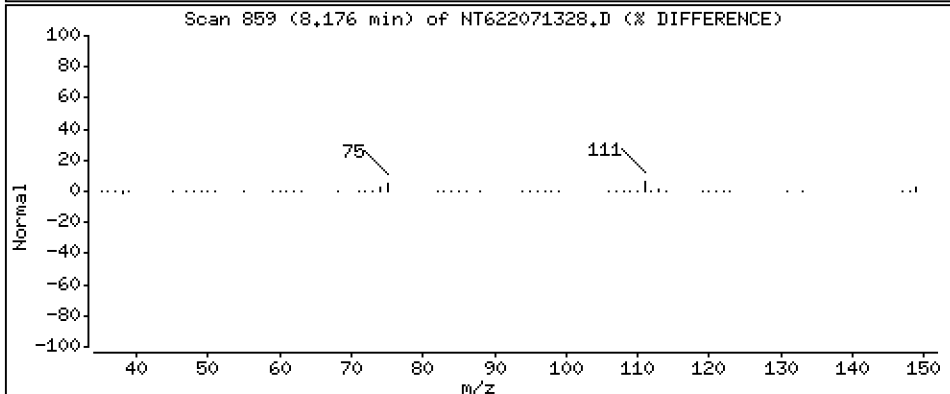
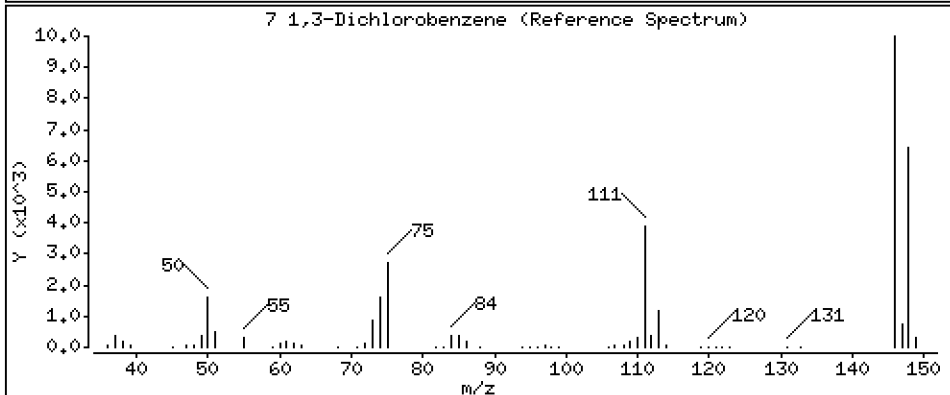
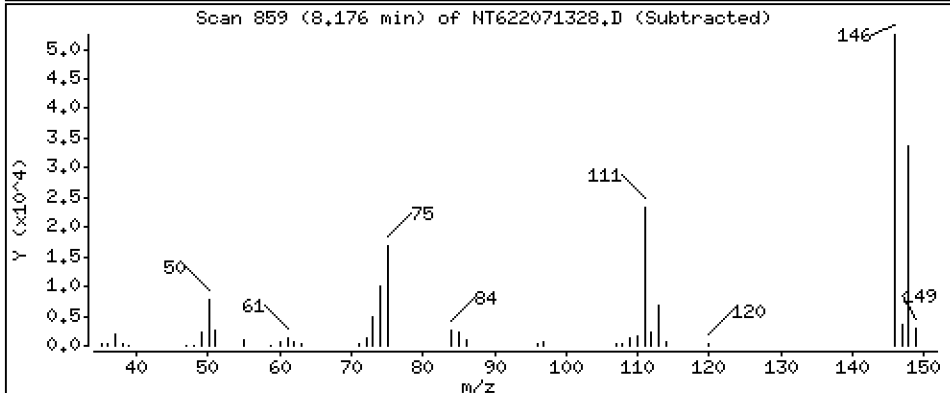
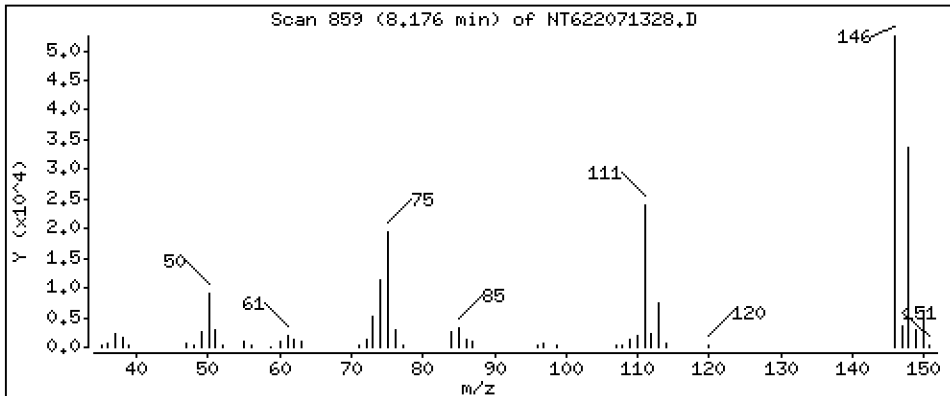
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

7 1,3-Dichlorobenzene

Concentration: 24,56 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

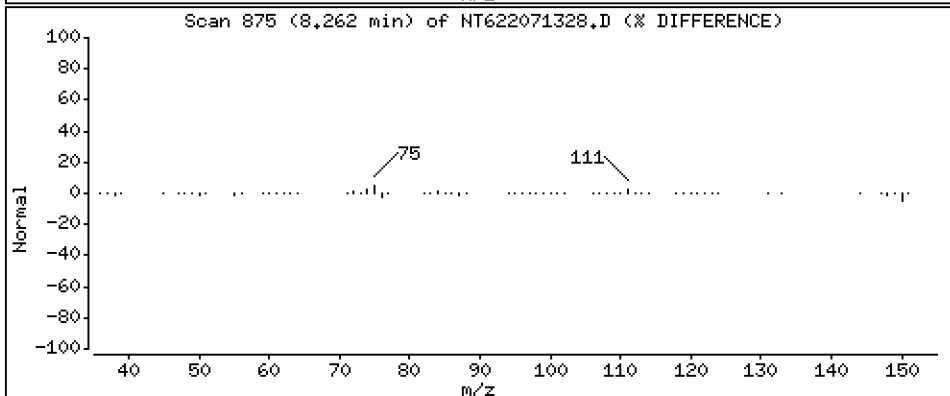
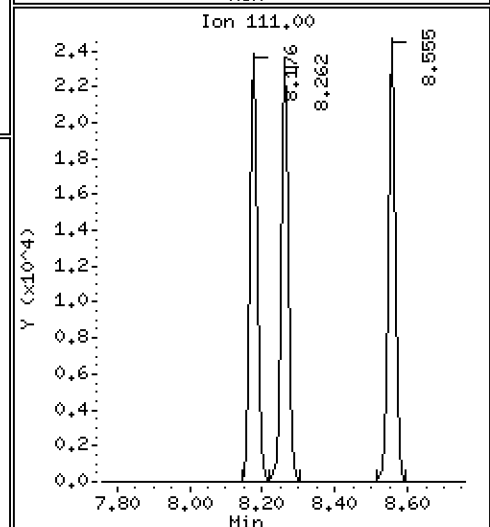
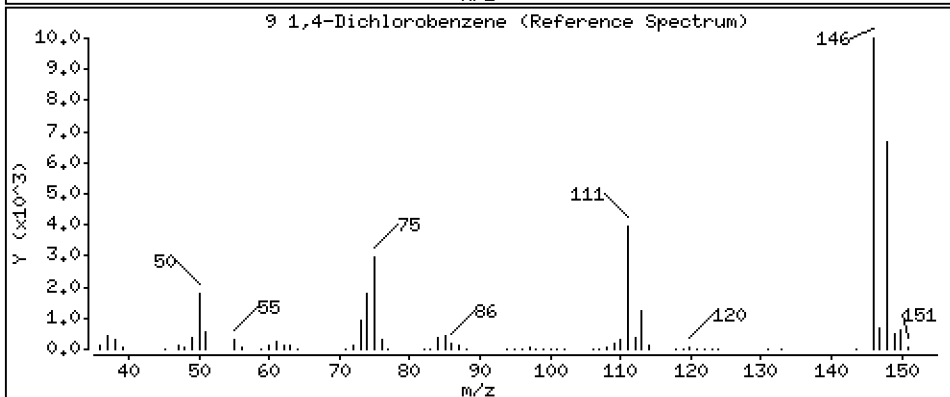
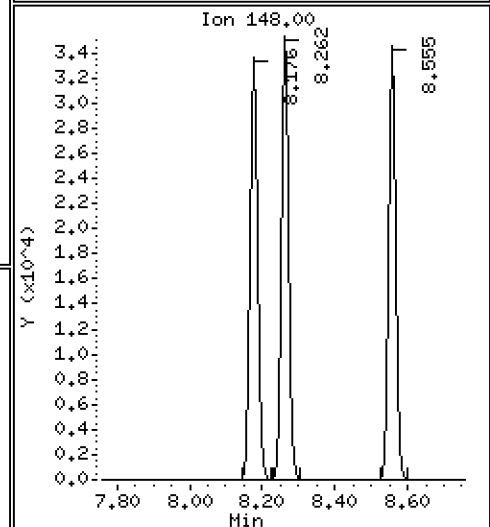
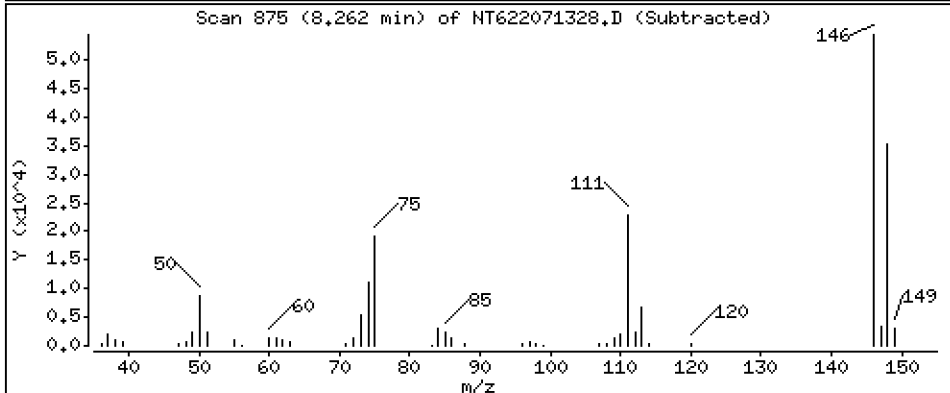
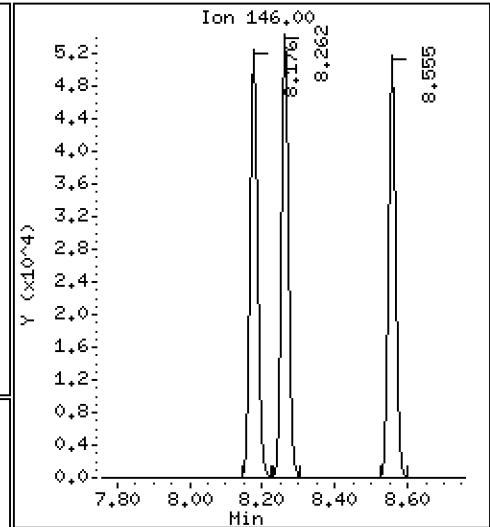
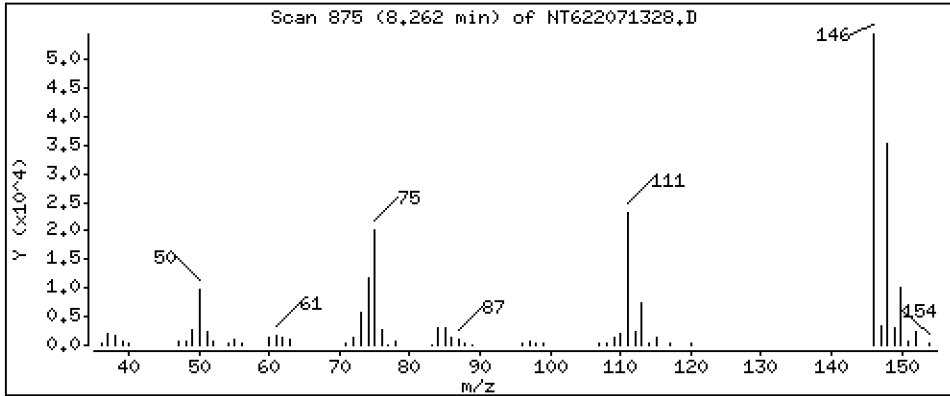
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

9 1,4-Dichlorobenzene

Concentration: 24.68 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

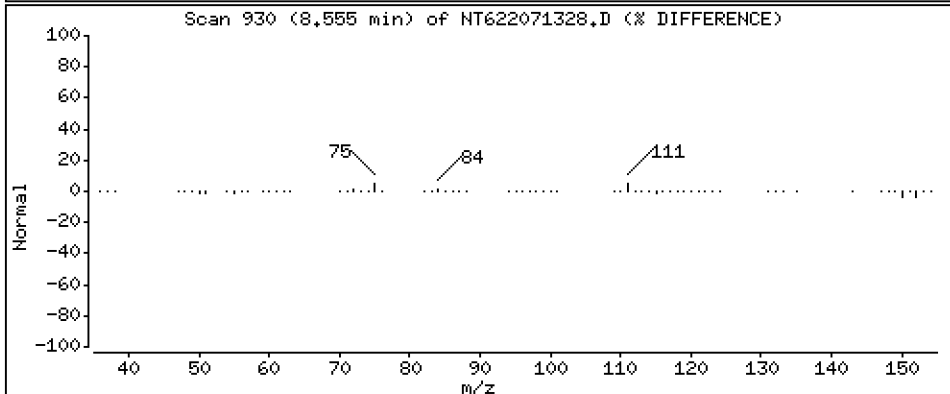
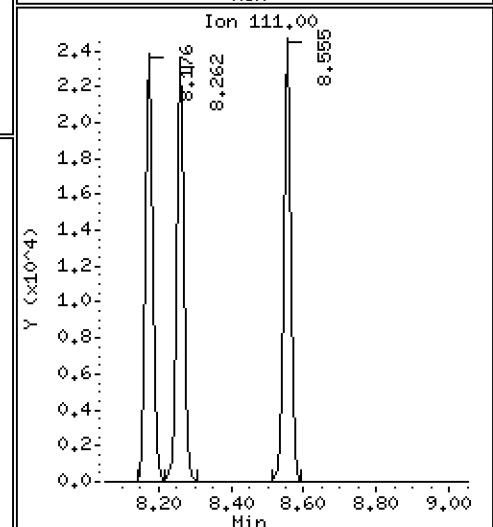
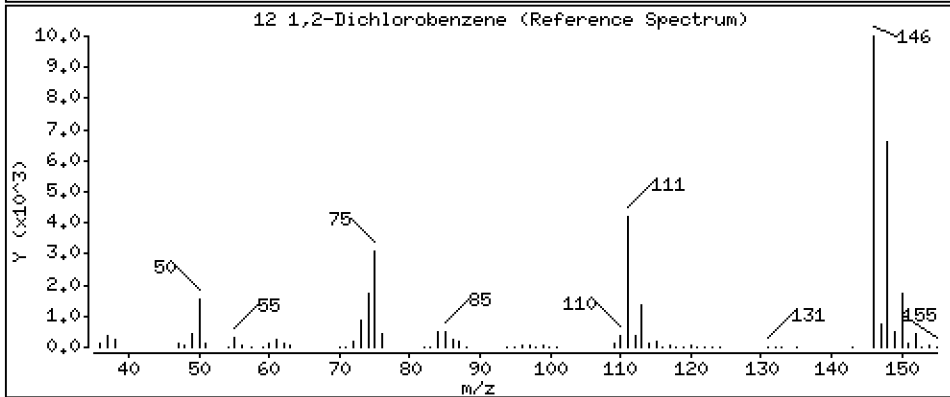
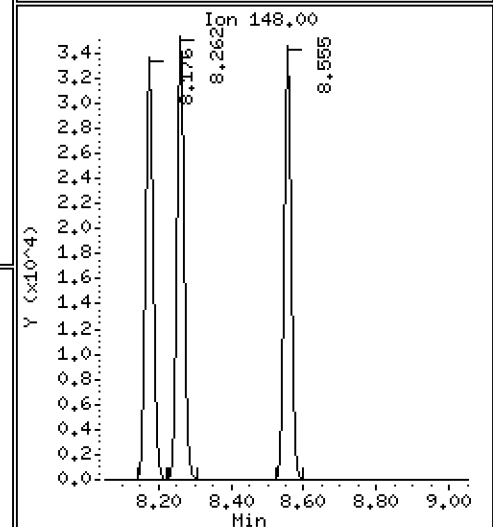
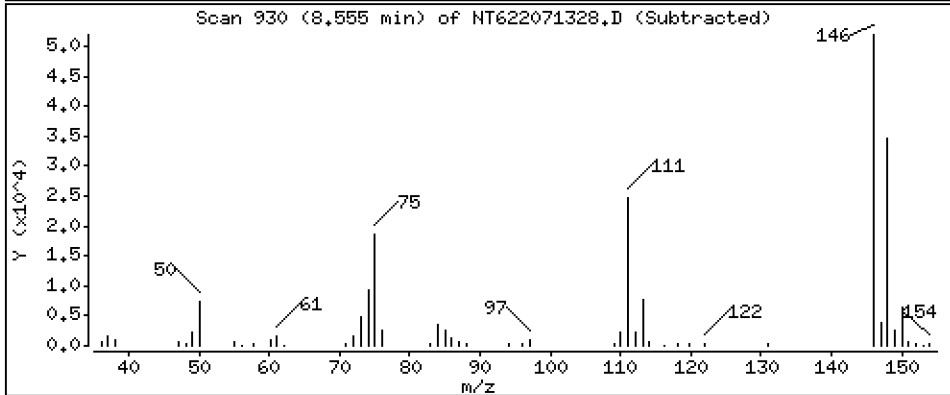
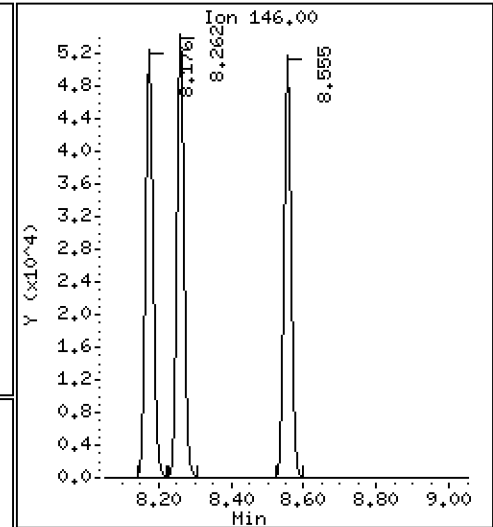
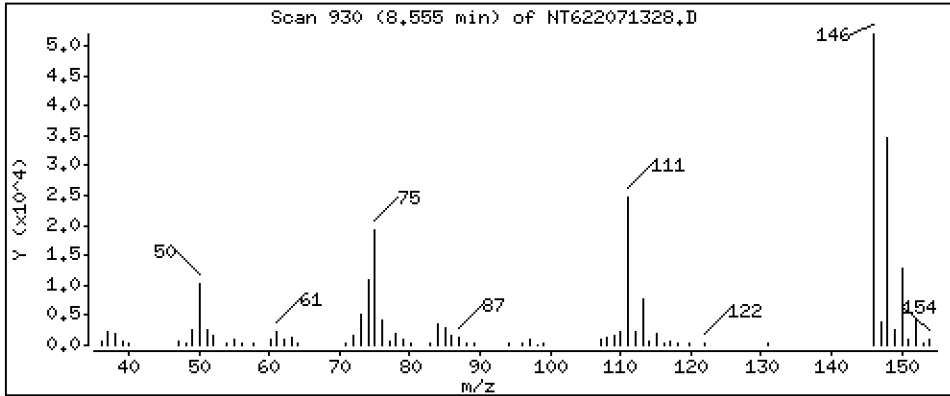
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

12 1,2-Dichlorobenzene

Concentration: 24.61 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

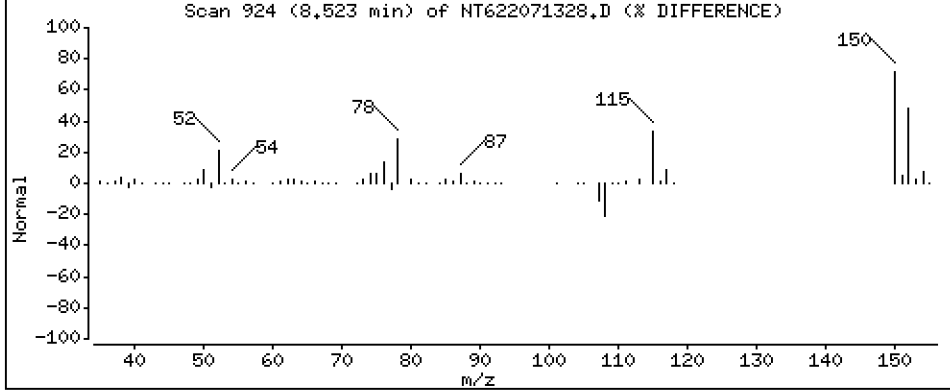
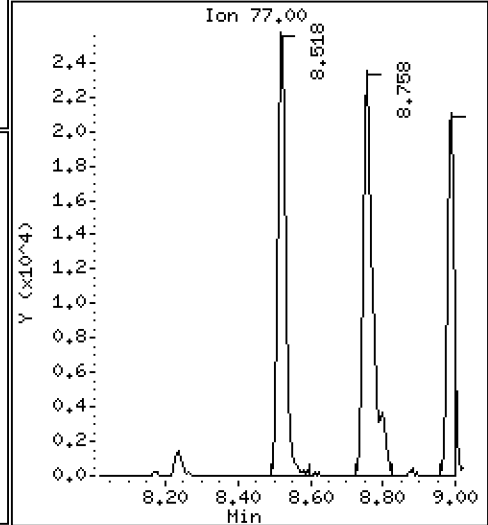
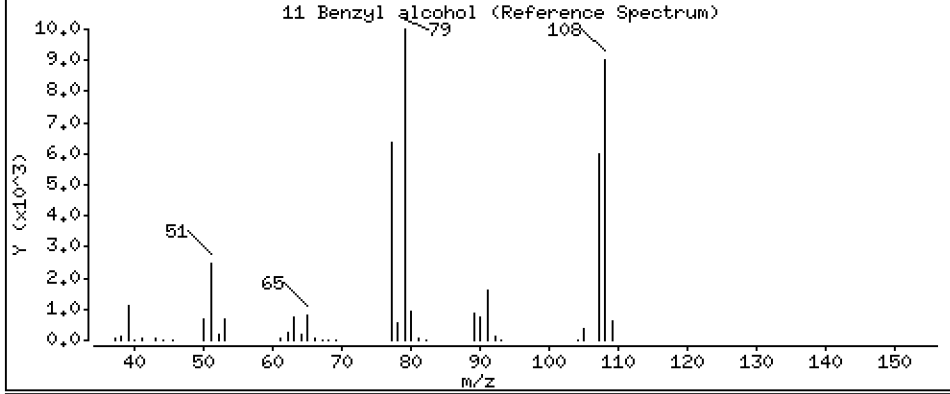
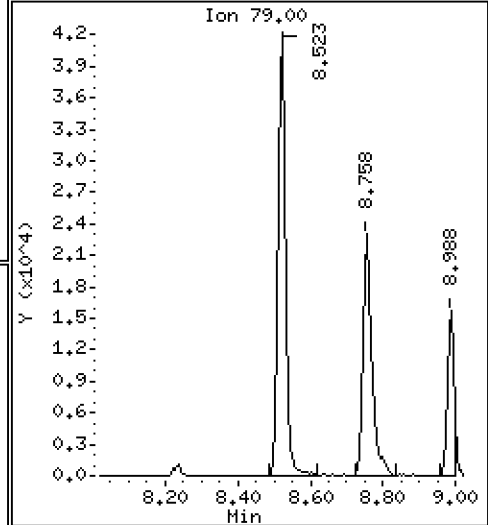
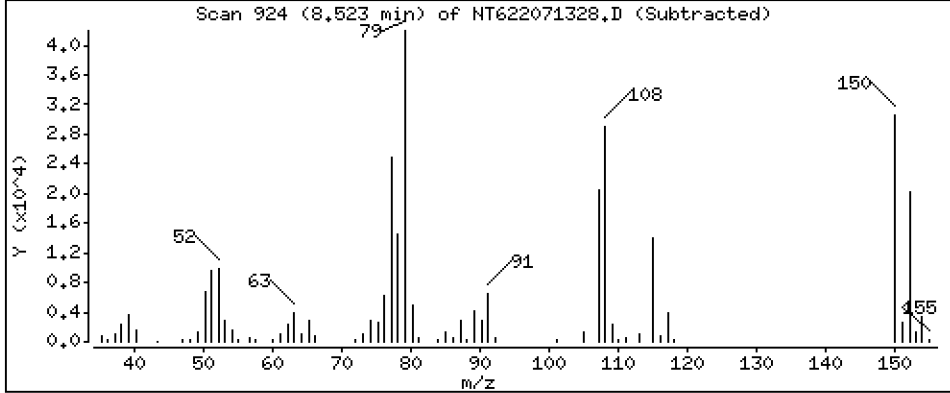
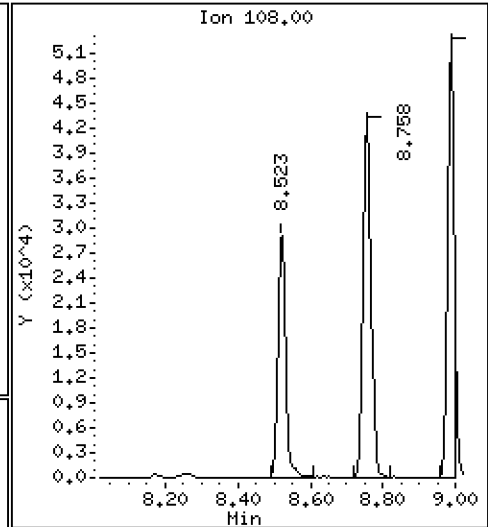
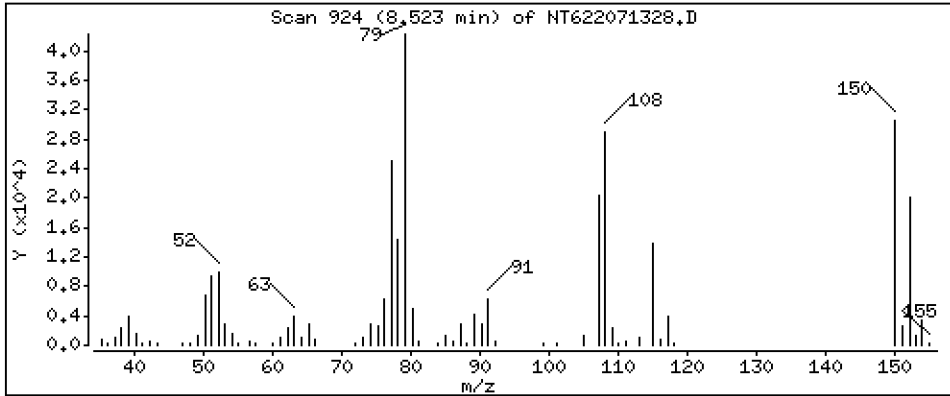
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

11 Benzyl alcohol

Concentration: 25.54 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

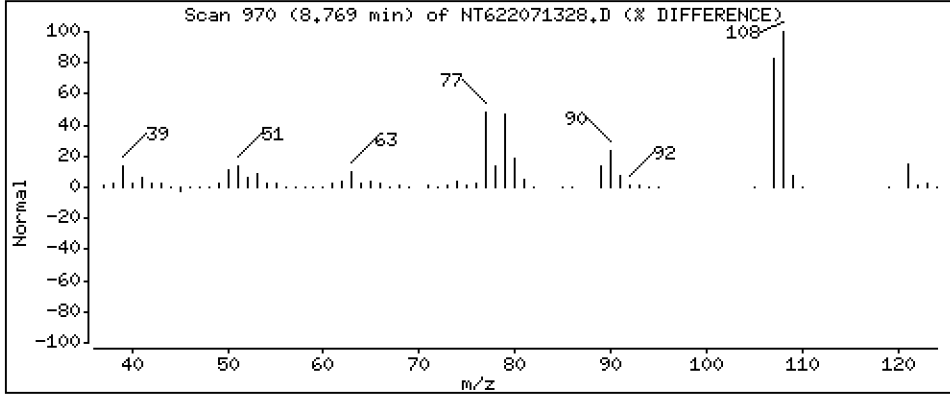
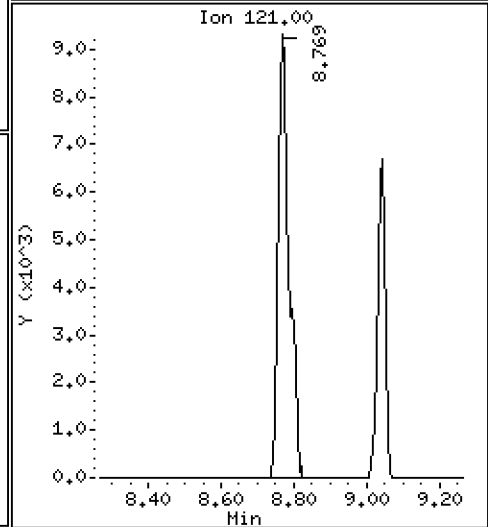
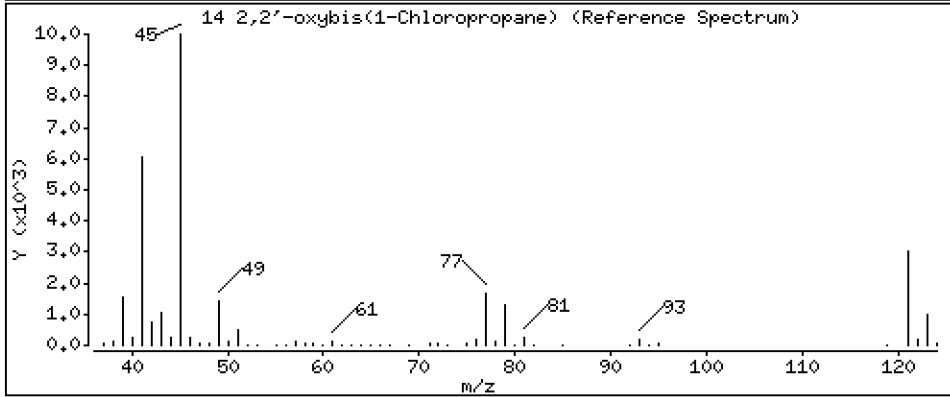
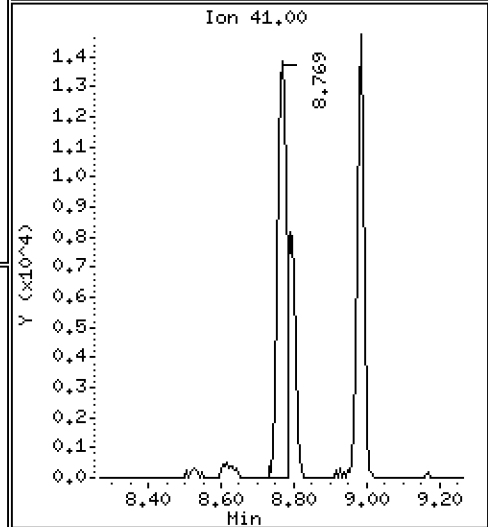
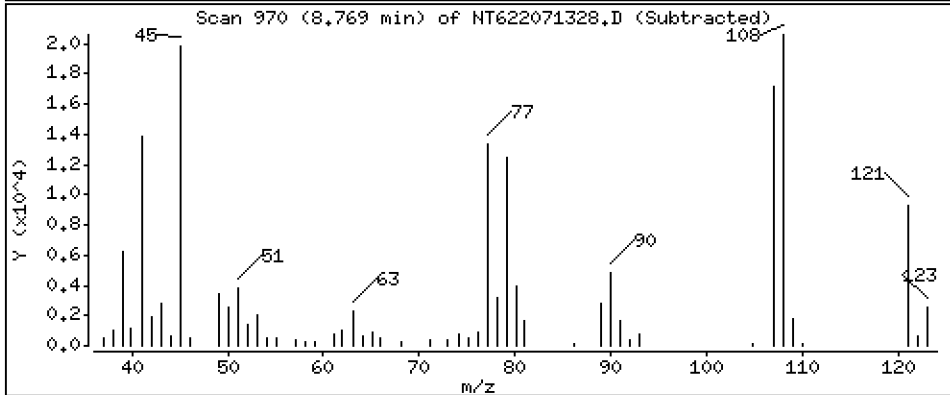
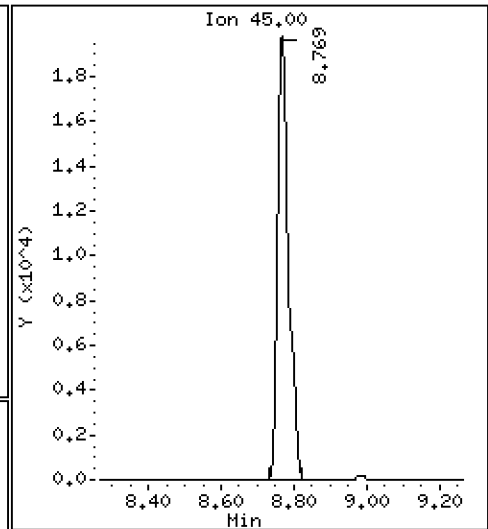
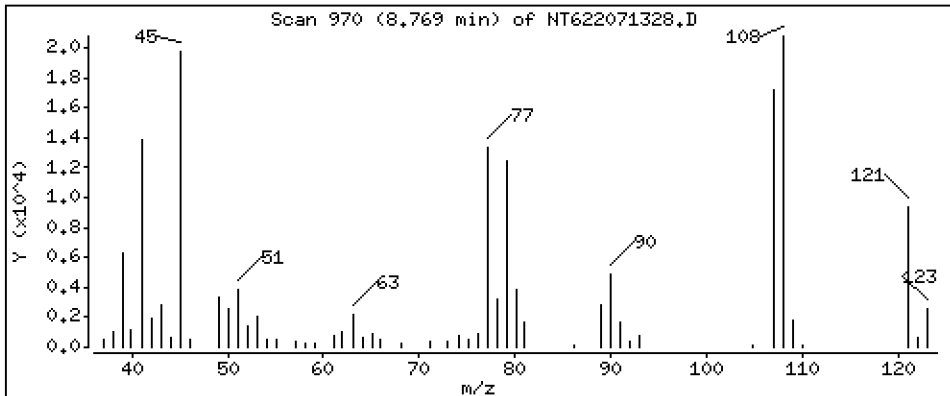
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

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

Concentration: 24.63 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

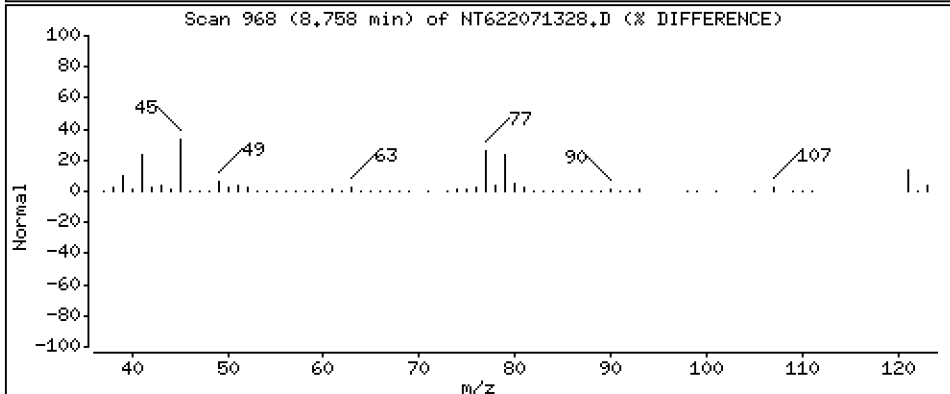
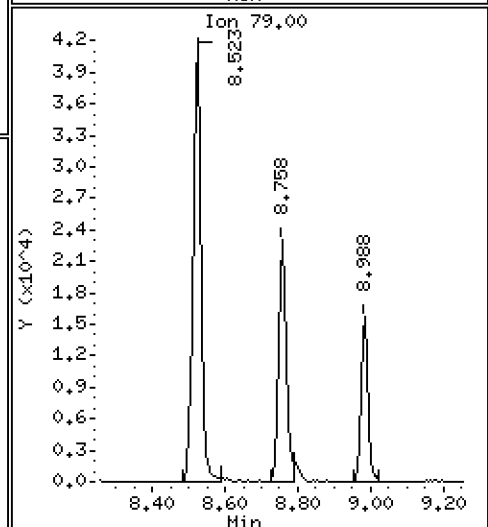
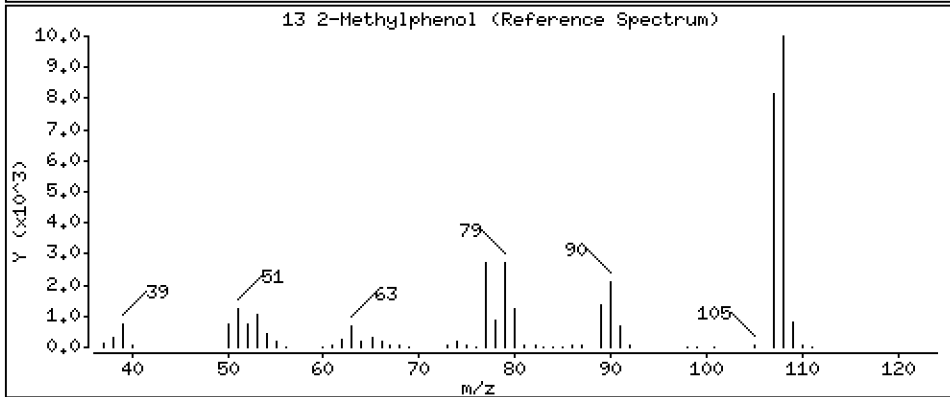
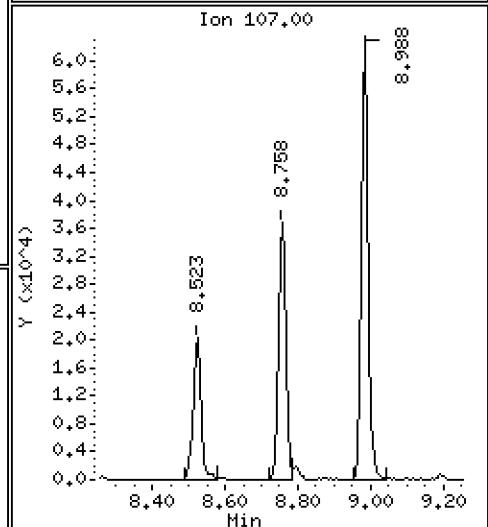
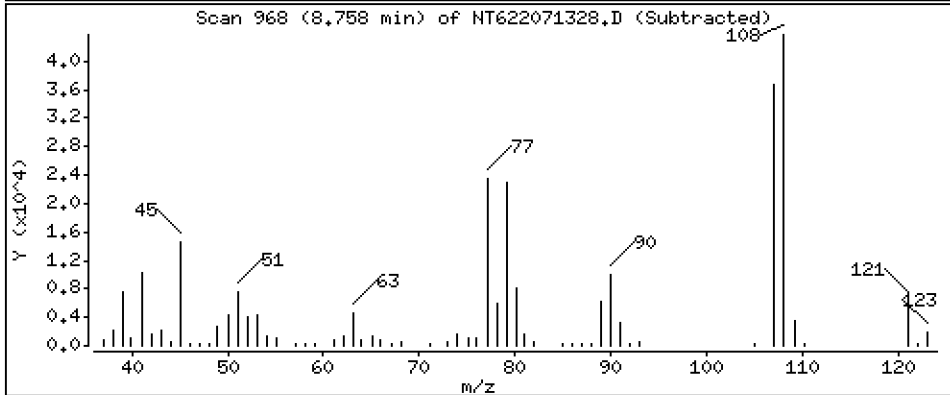
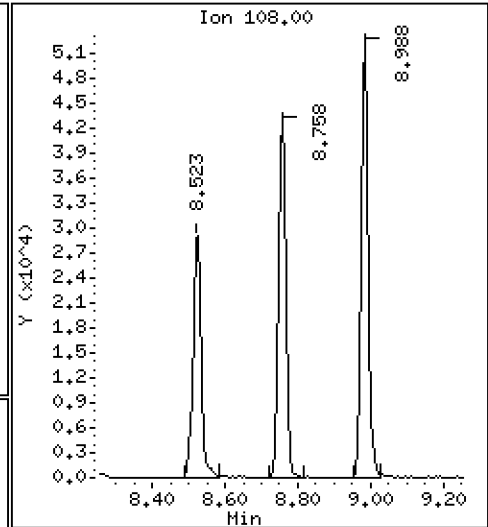
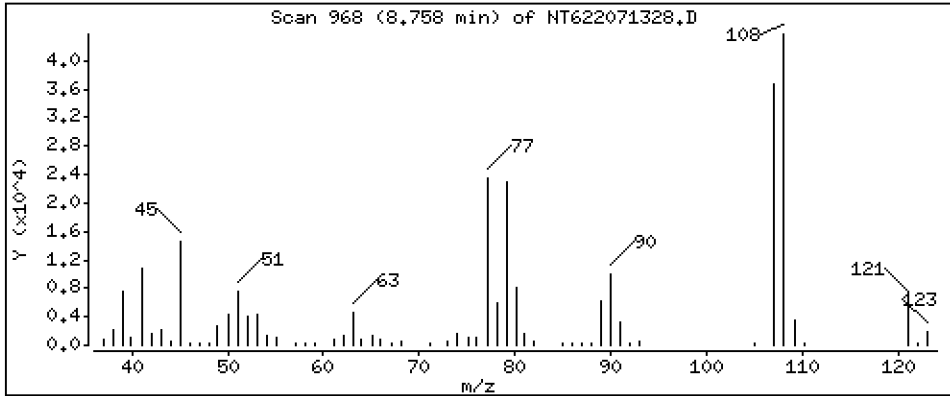
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

13 2-Methylphenol

Concentration: 24.92 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

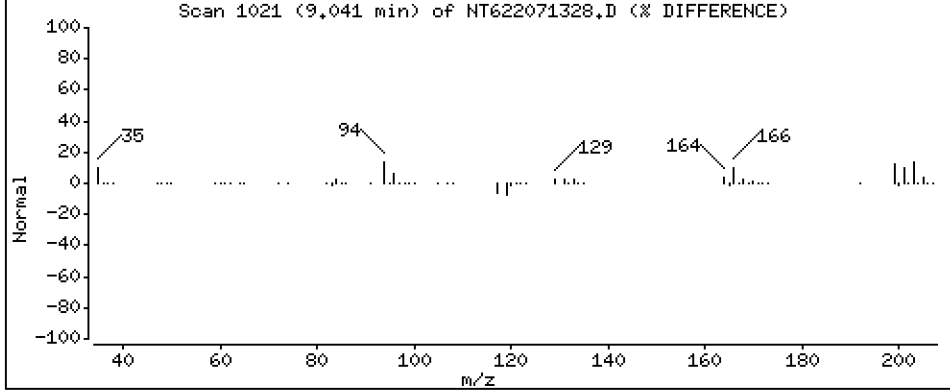
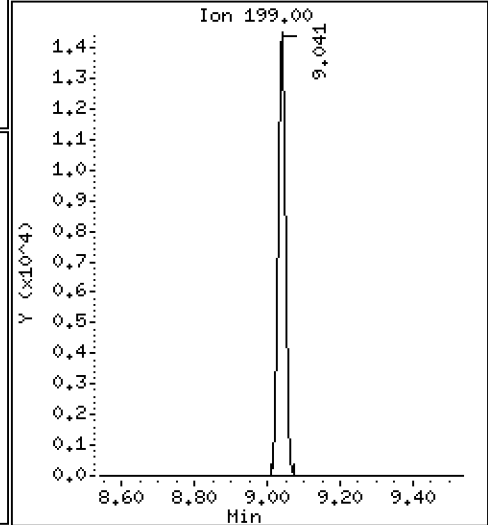
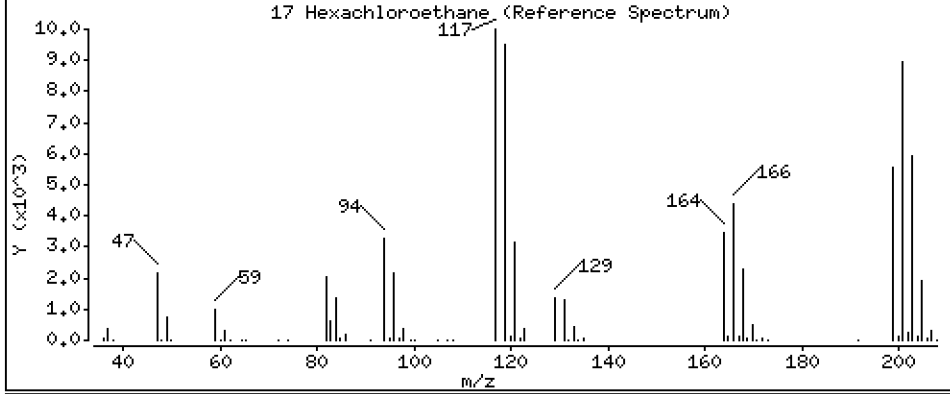
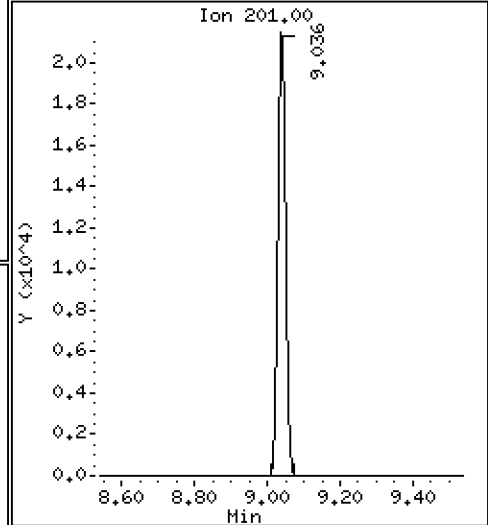
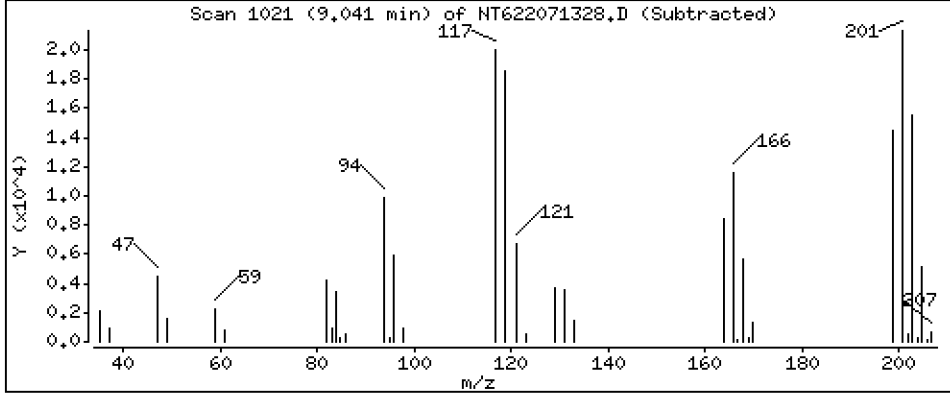
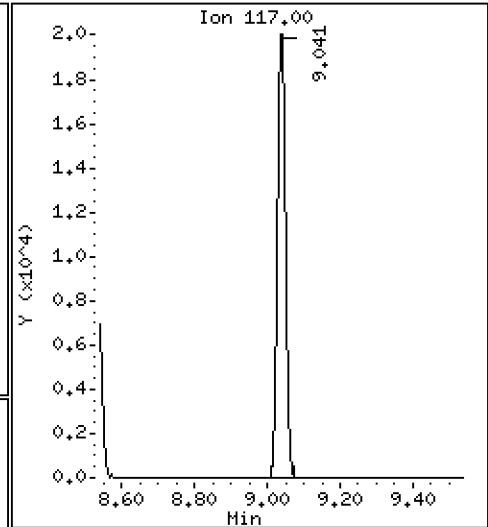
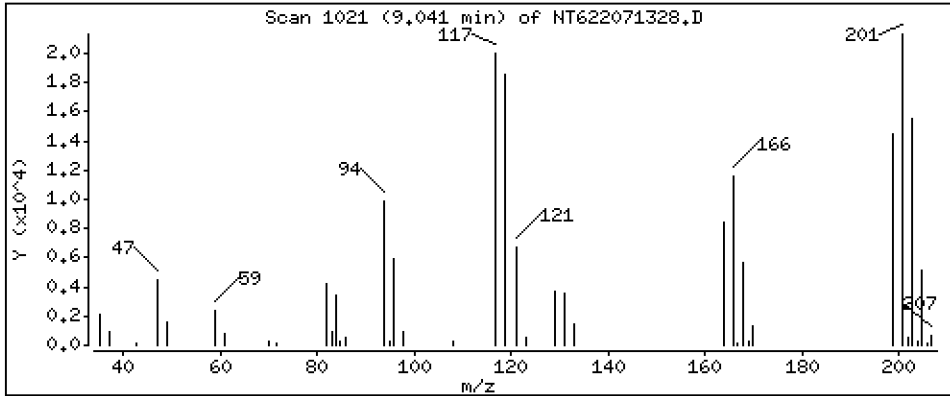
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

17 Hexachloroethane

Concentration: 25.56 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

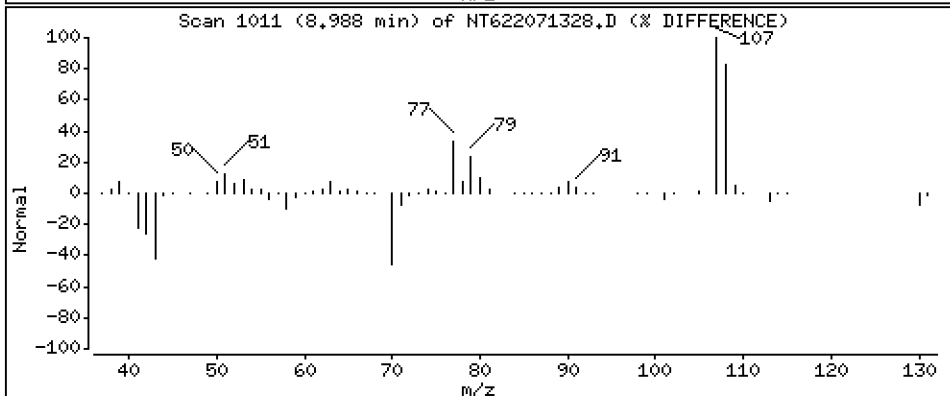
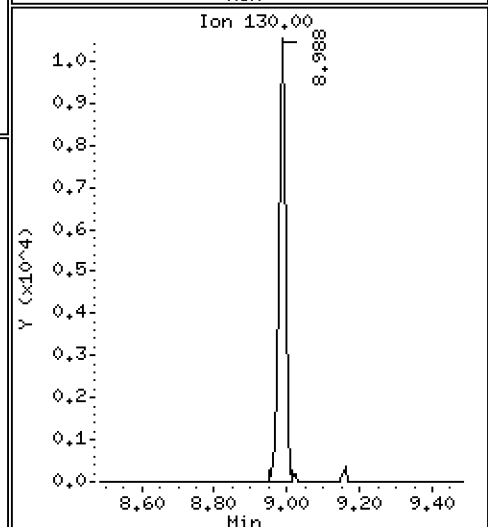
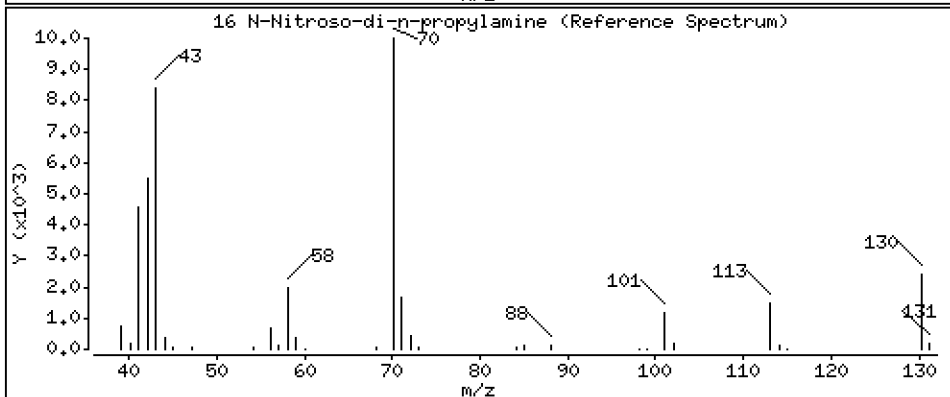
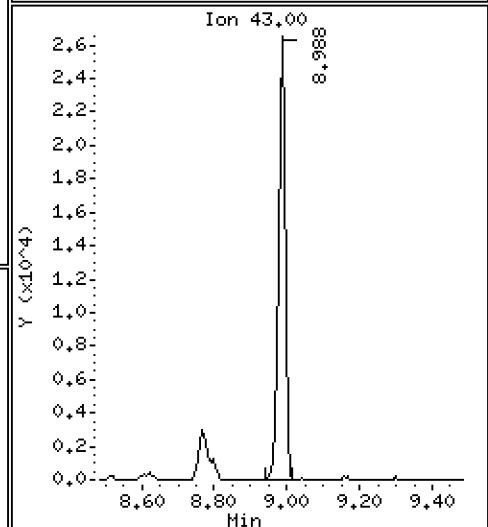
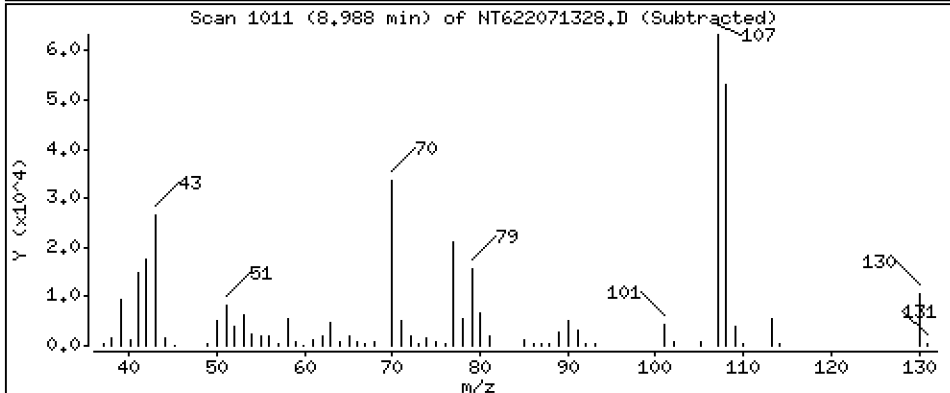
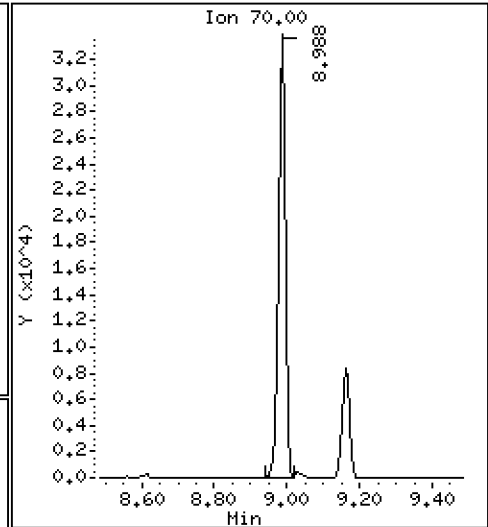
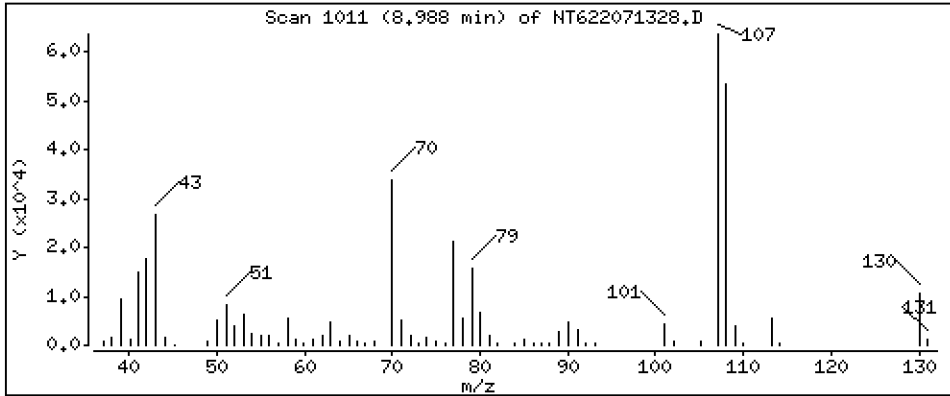
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

16 N-Nitroso-di-n-propylamine

Concentration: 26.68 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

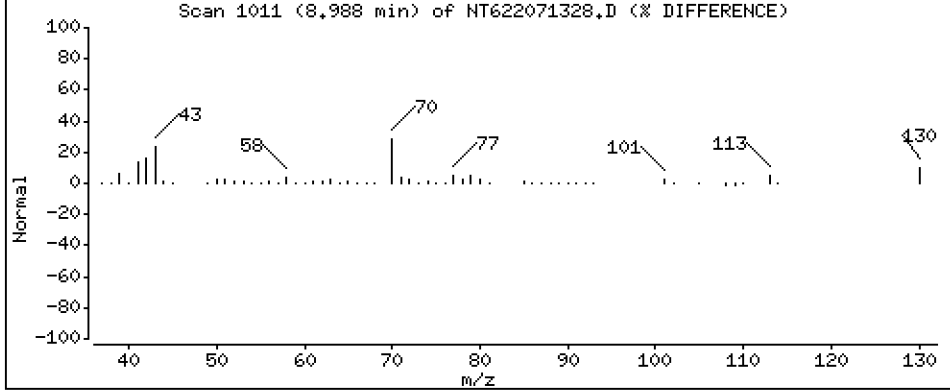
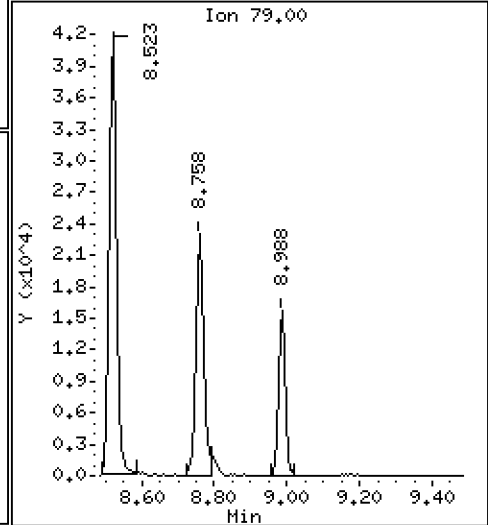
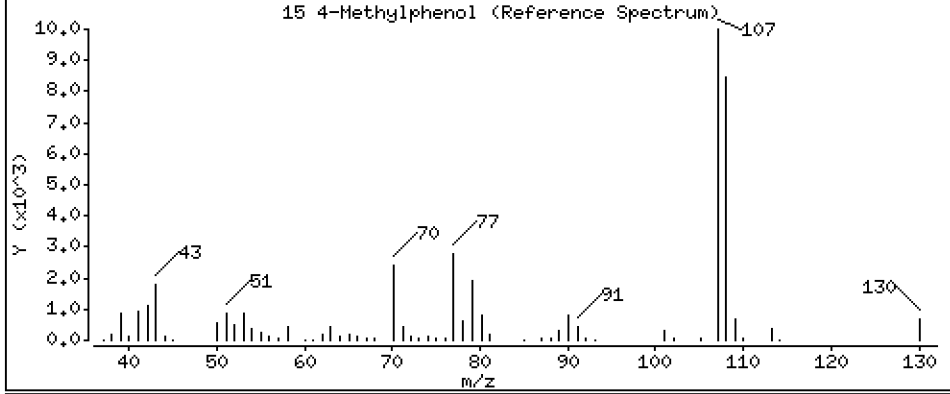
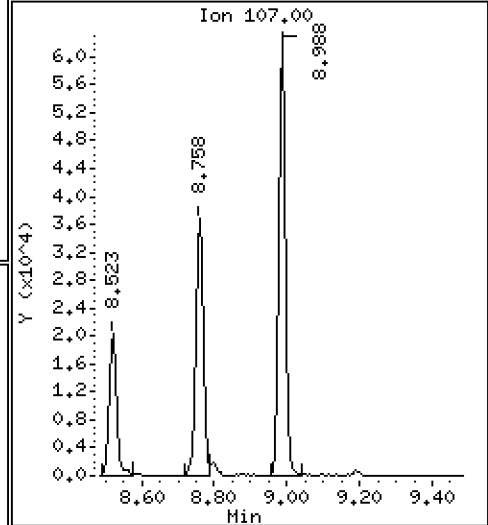
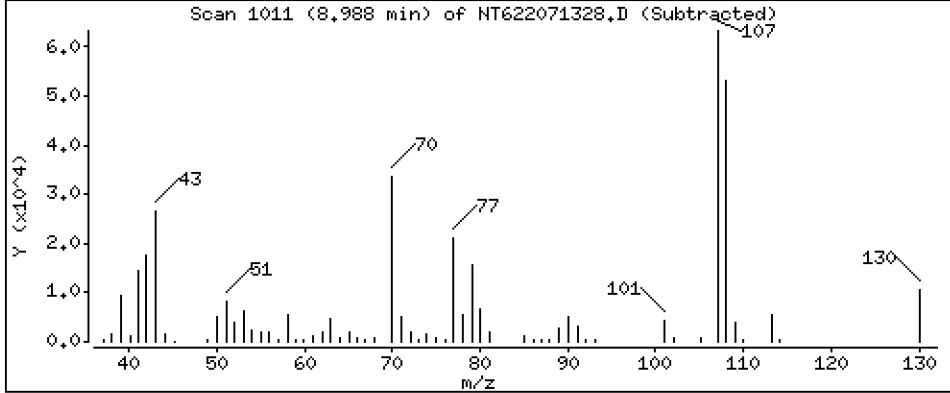
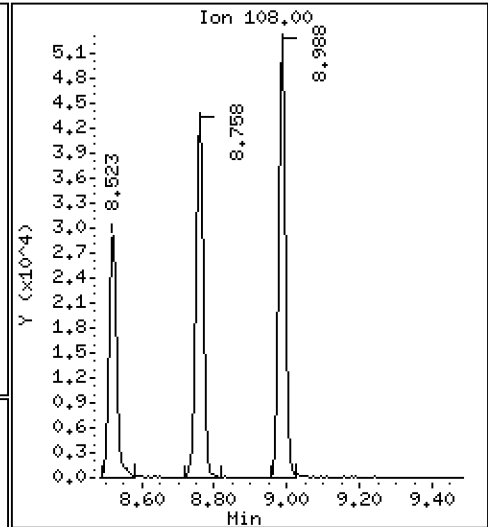
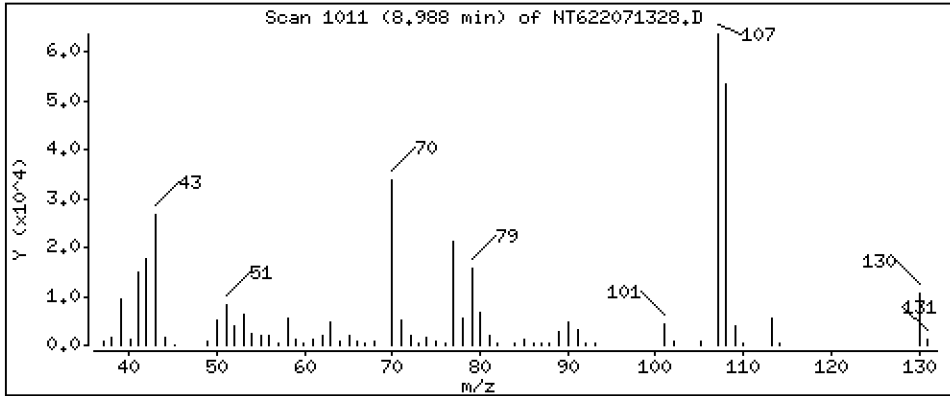
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

15 4-Methylphenol

Concentration: 25.65 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

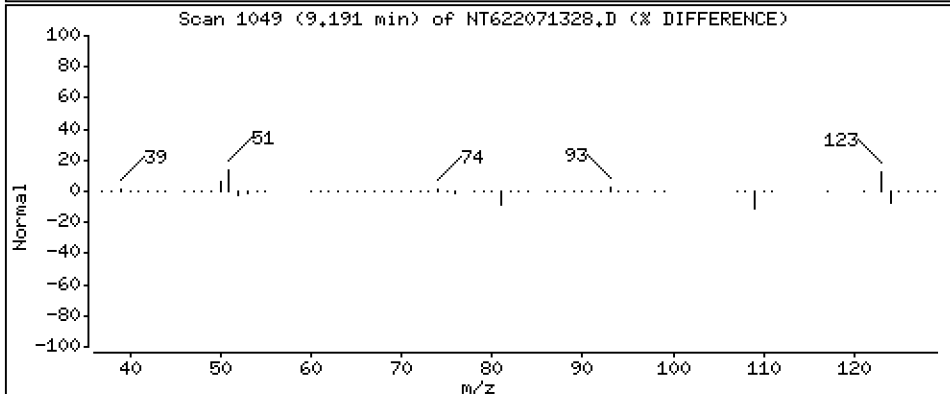
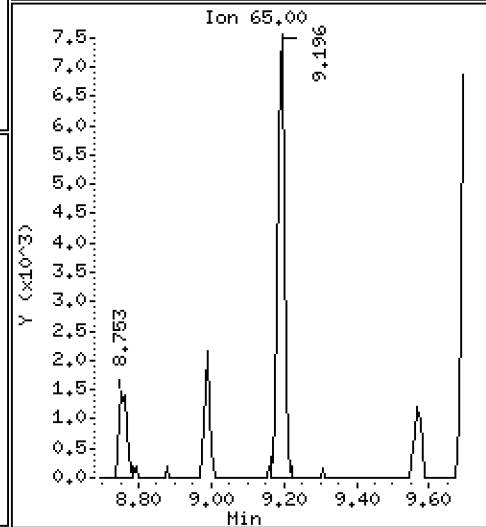
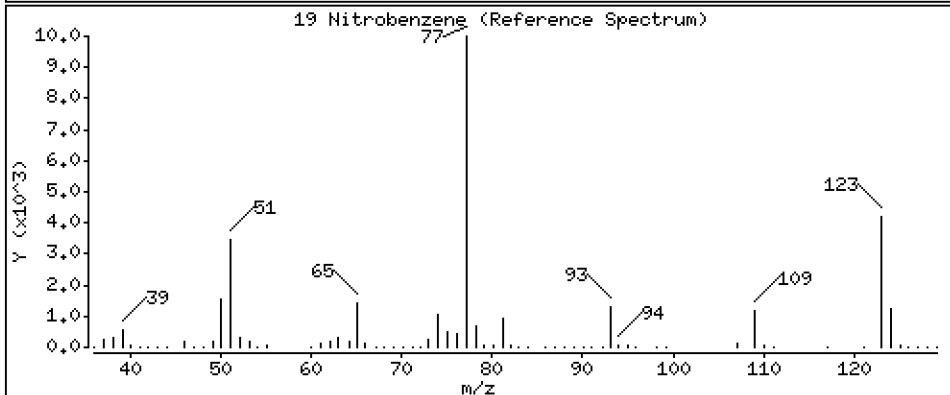
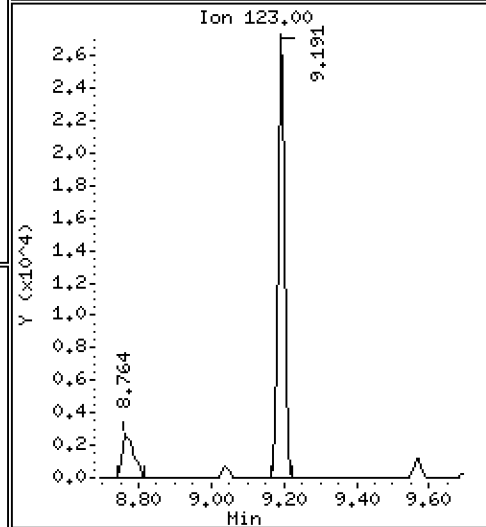
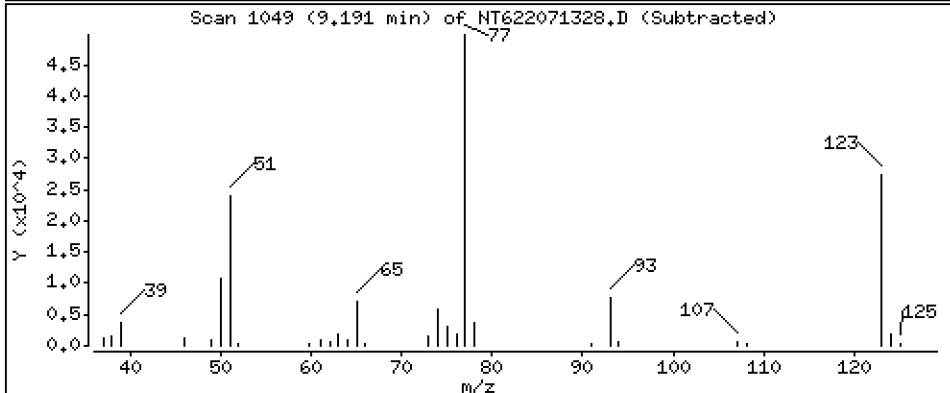
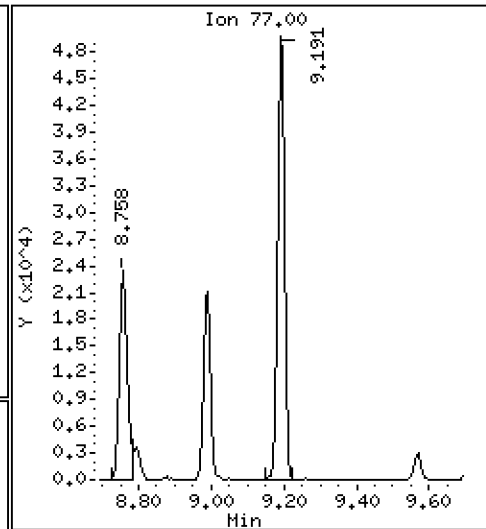
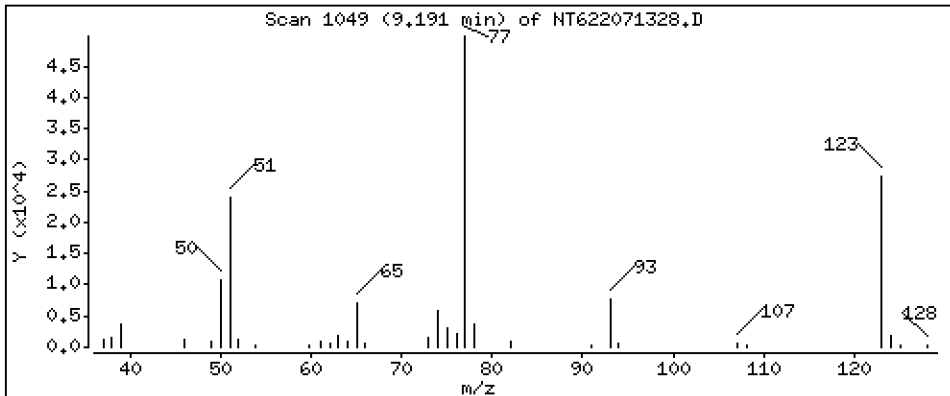
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

19 Nitrobenzene

Concentration: 24.47 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

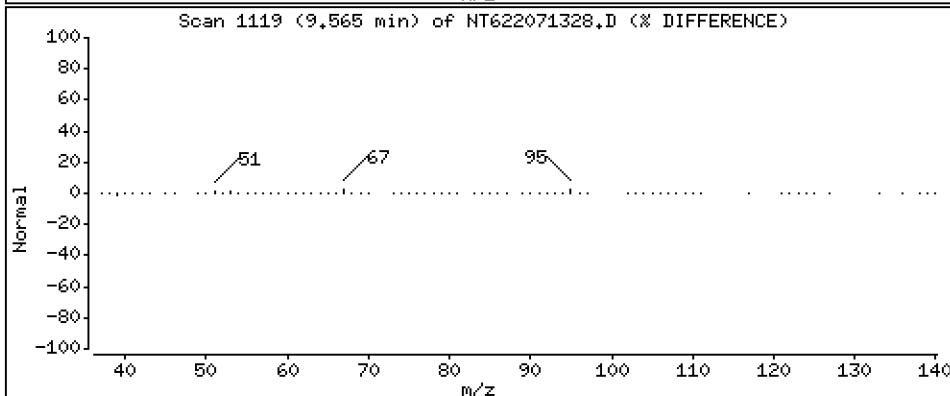
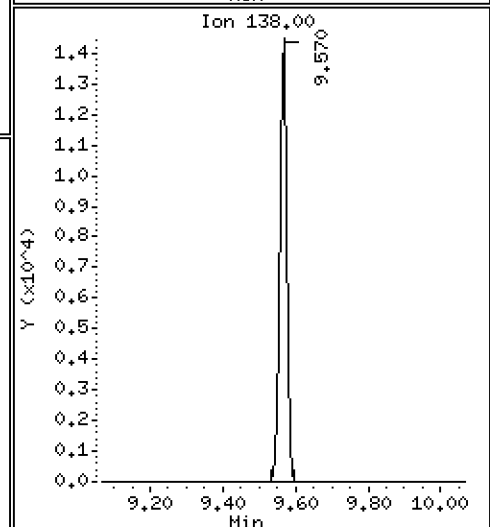
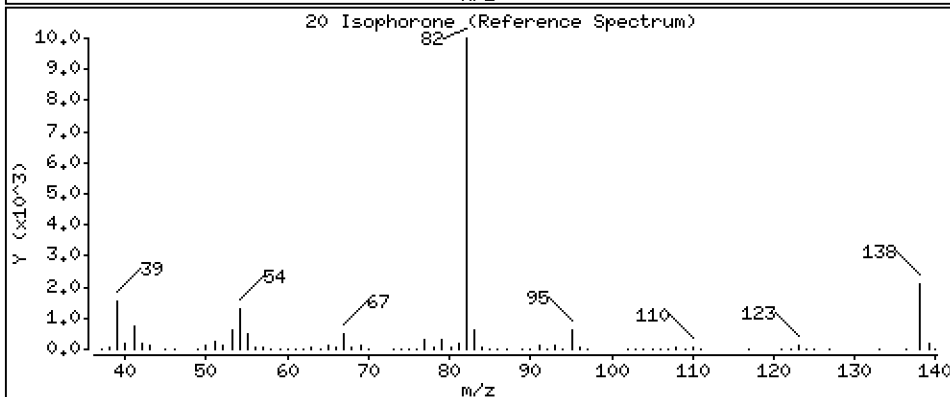
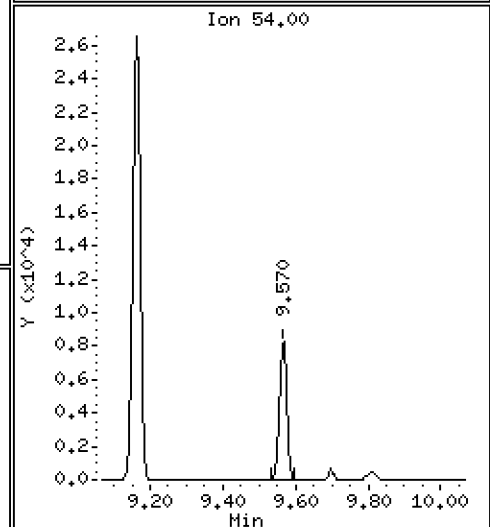
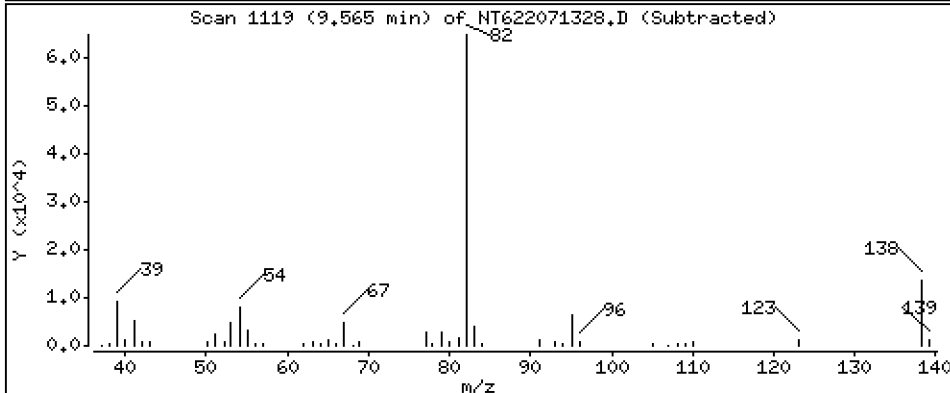
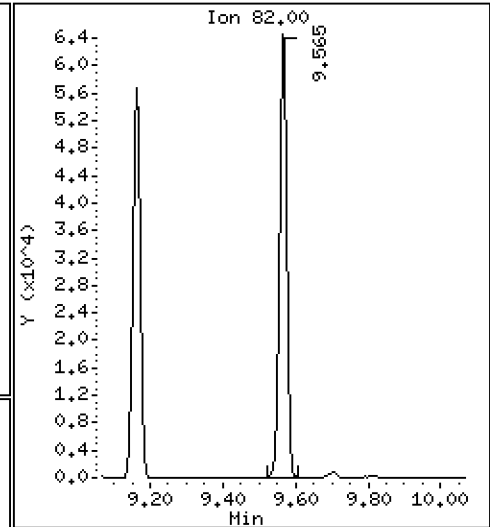
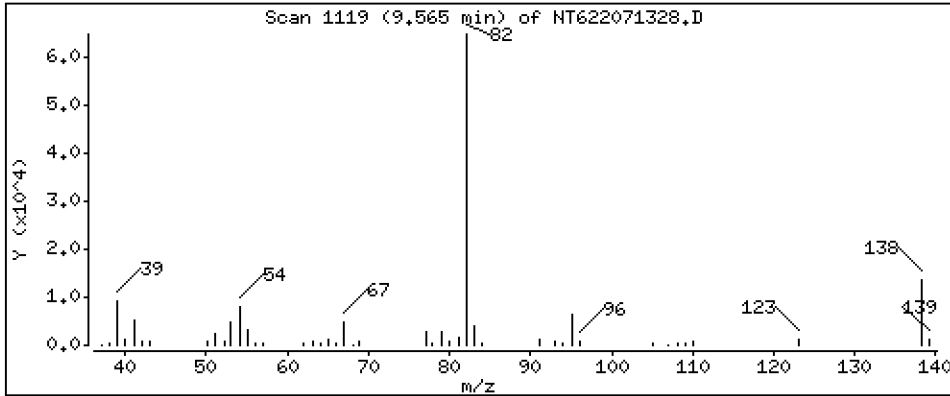
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

20 Isophorone

Concentration: 26.42 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

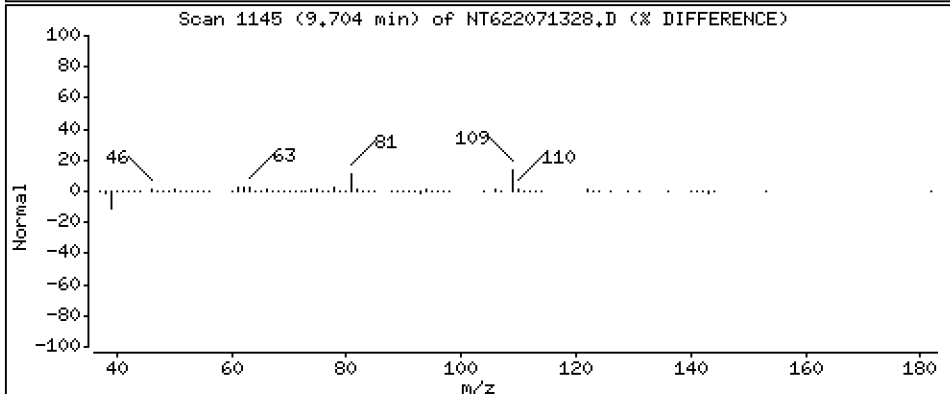
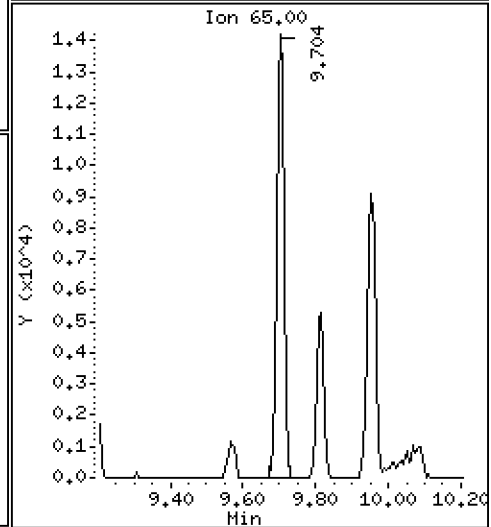
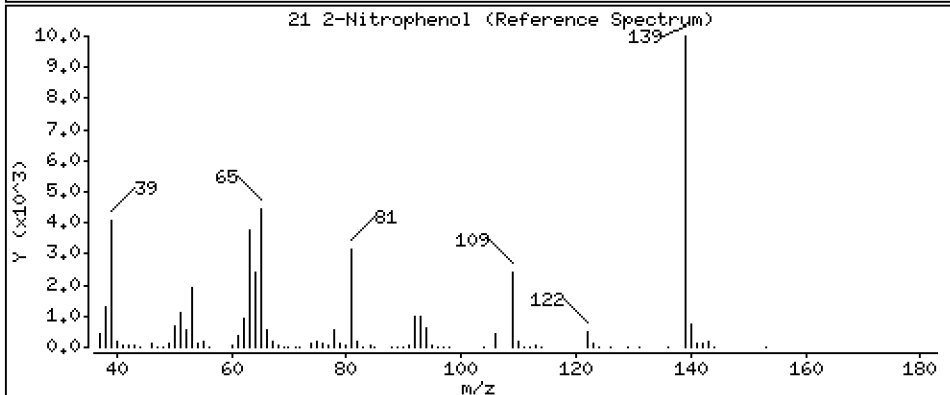
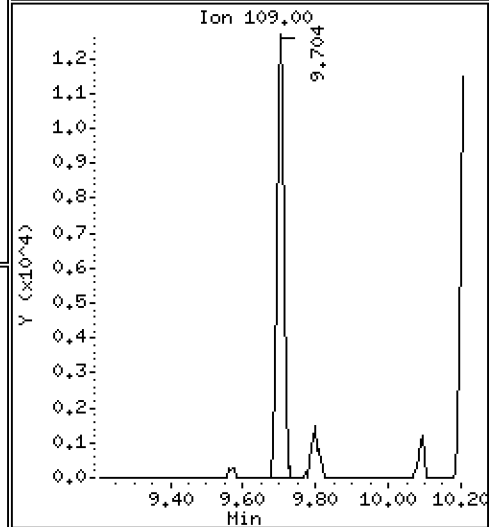
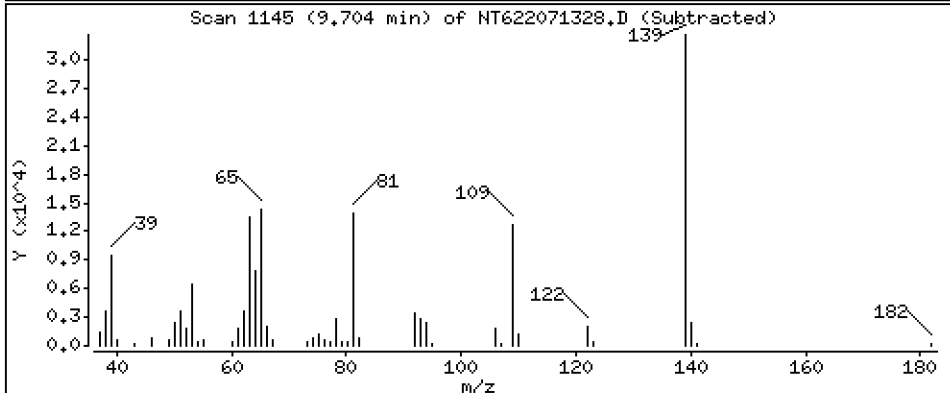
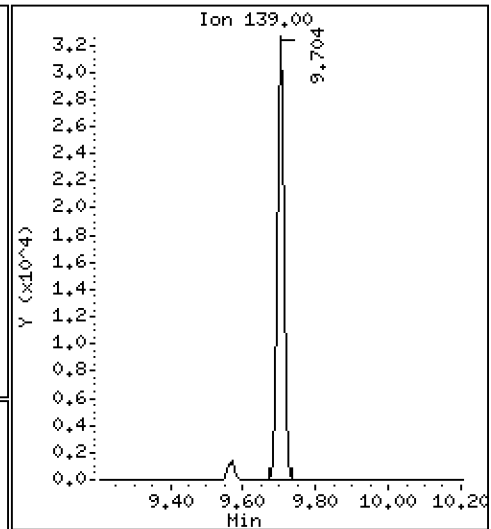
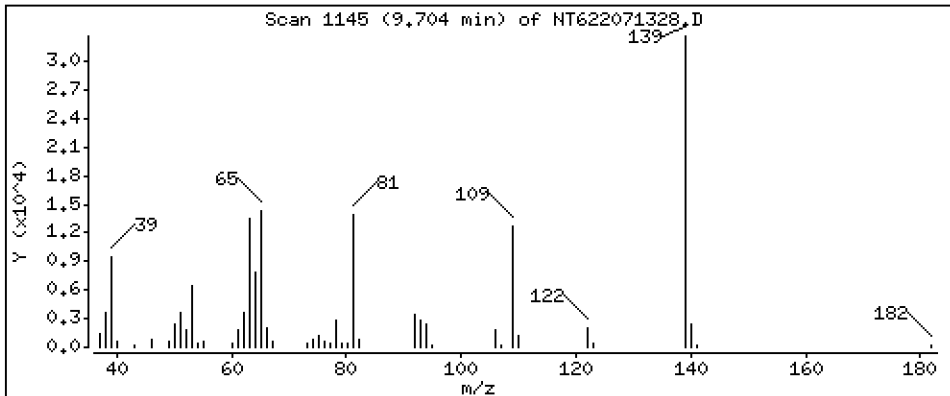
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

21 2-Nitrophenol

Concentration: 25.09 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

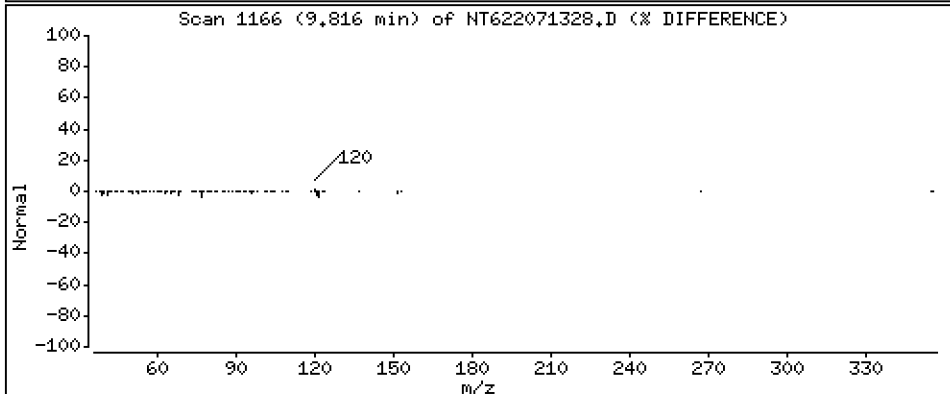
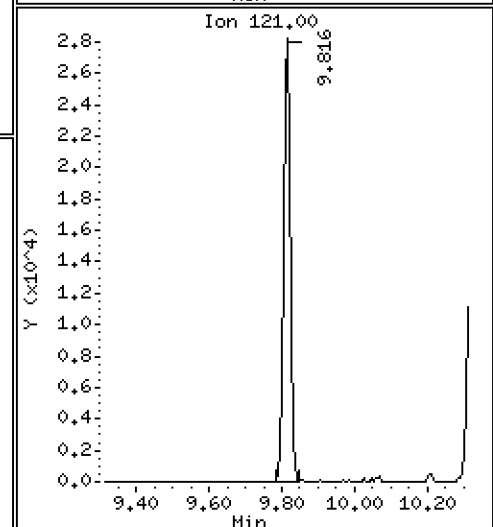
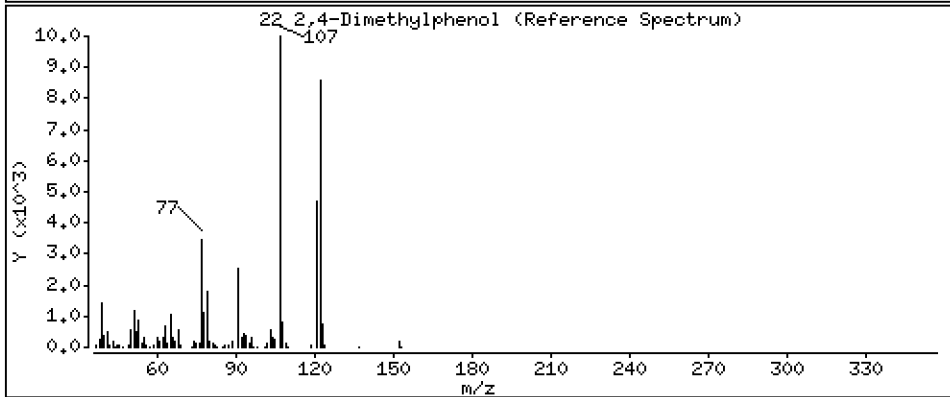
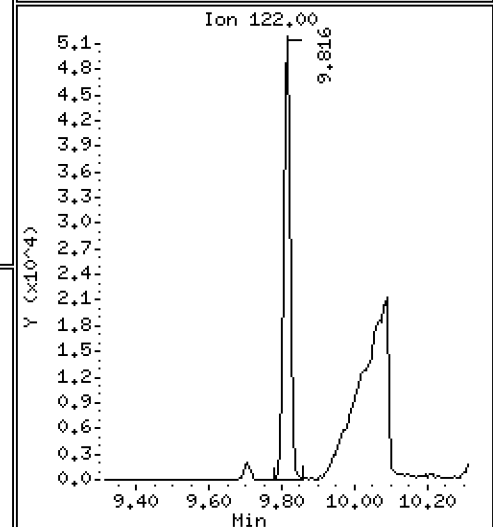
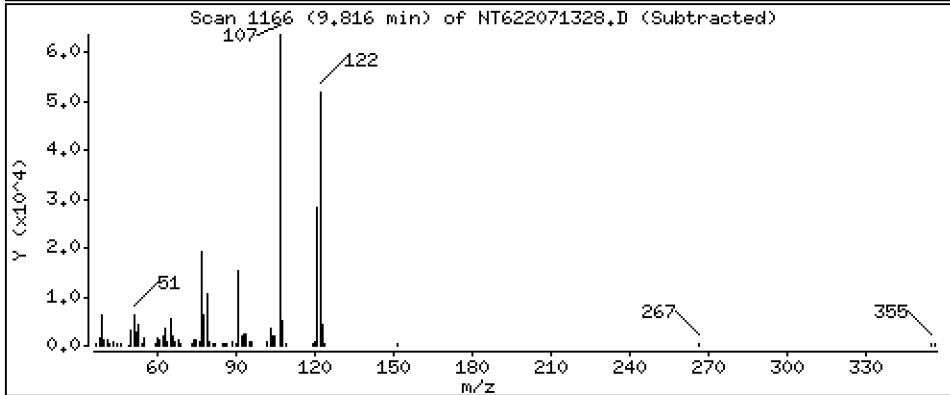
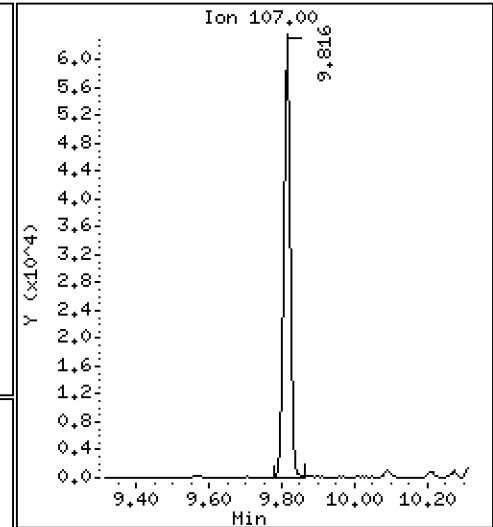
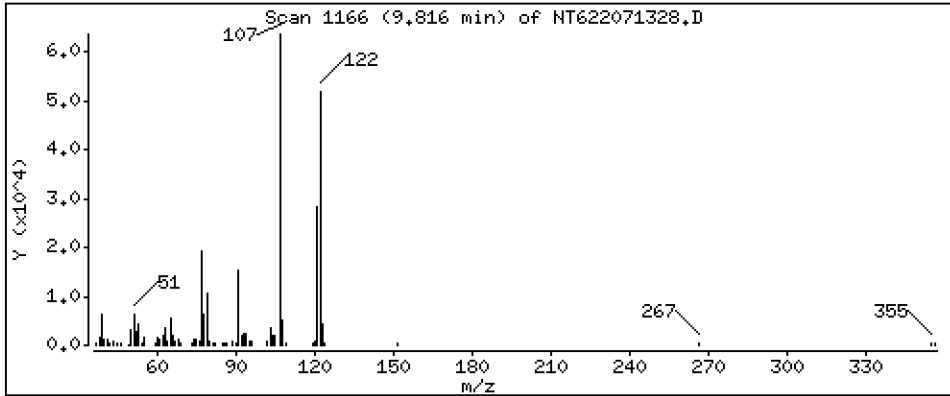
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

22 2,4-Dimethylphenol

Concentration: 25.01 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

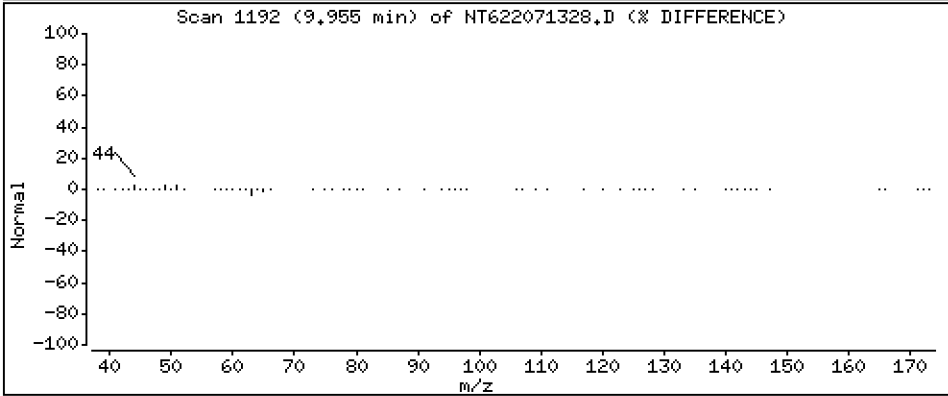
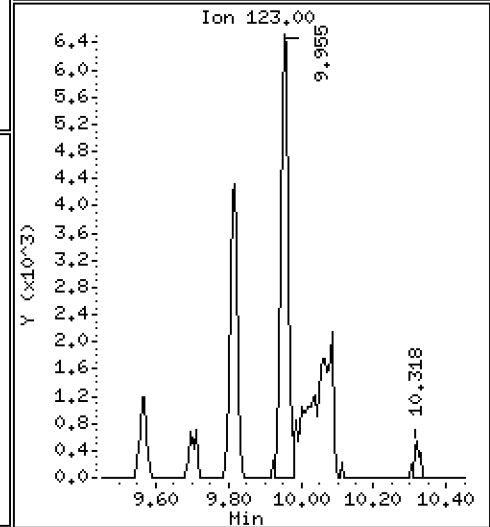
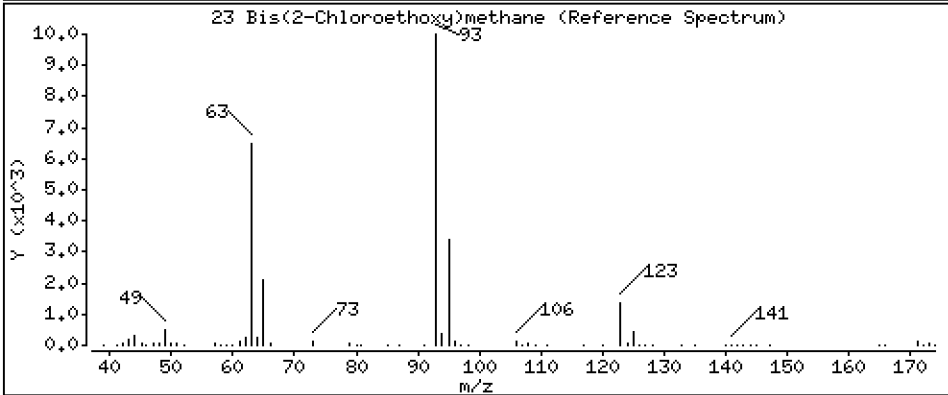
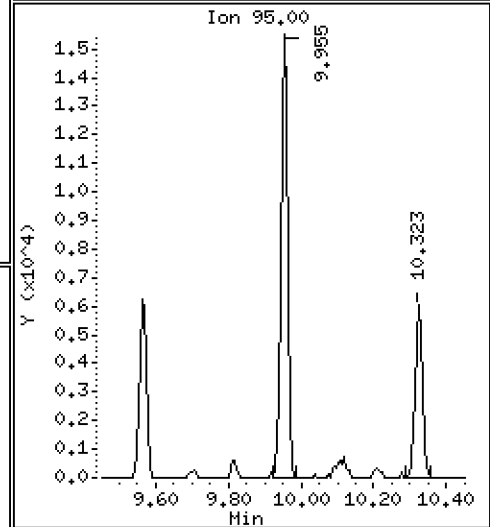
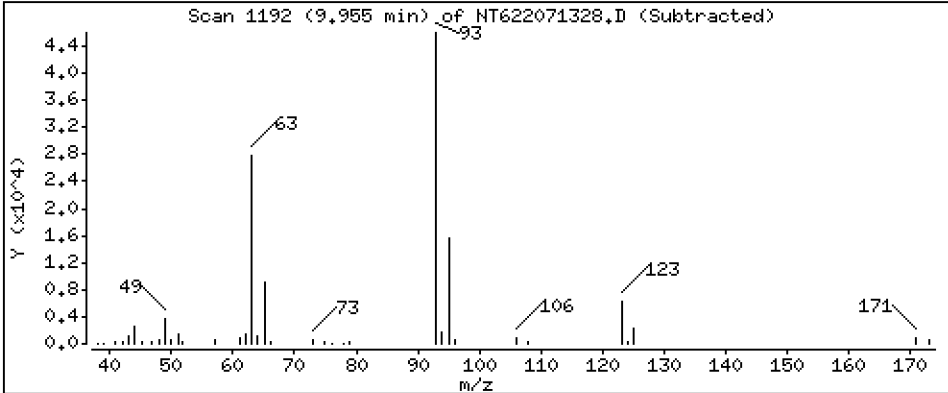
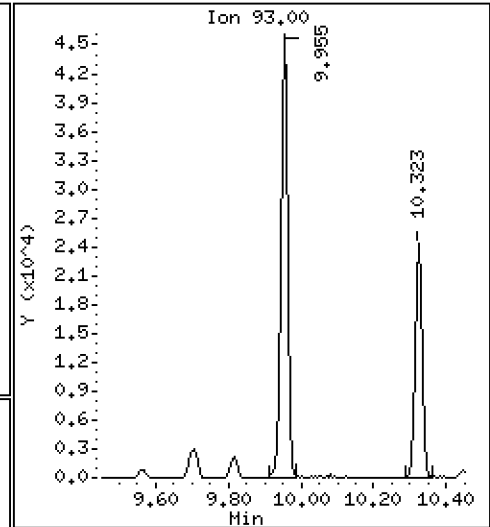
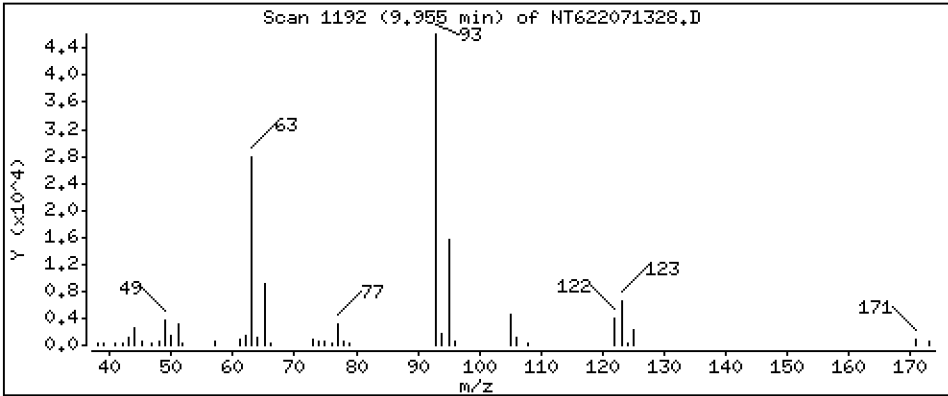
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

23 Bis(2-Chloroethoxy)methane

Concentration: 24.35 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

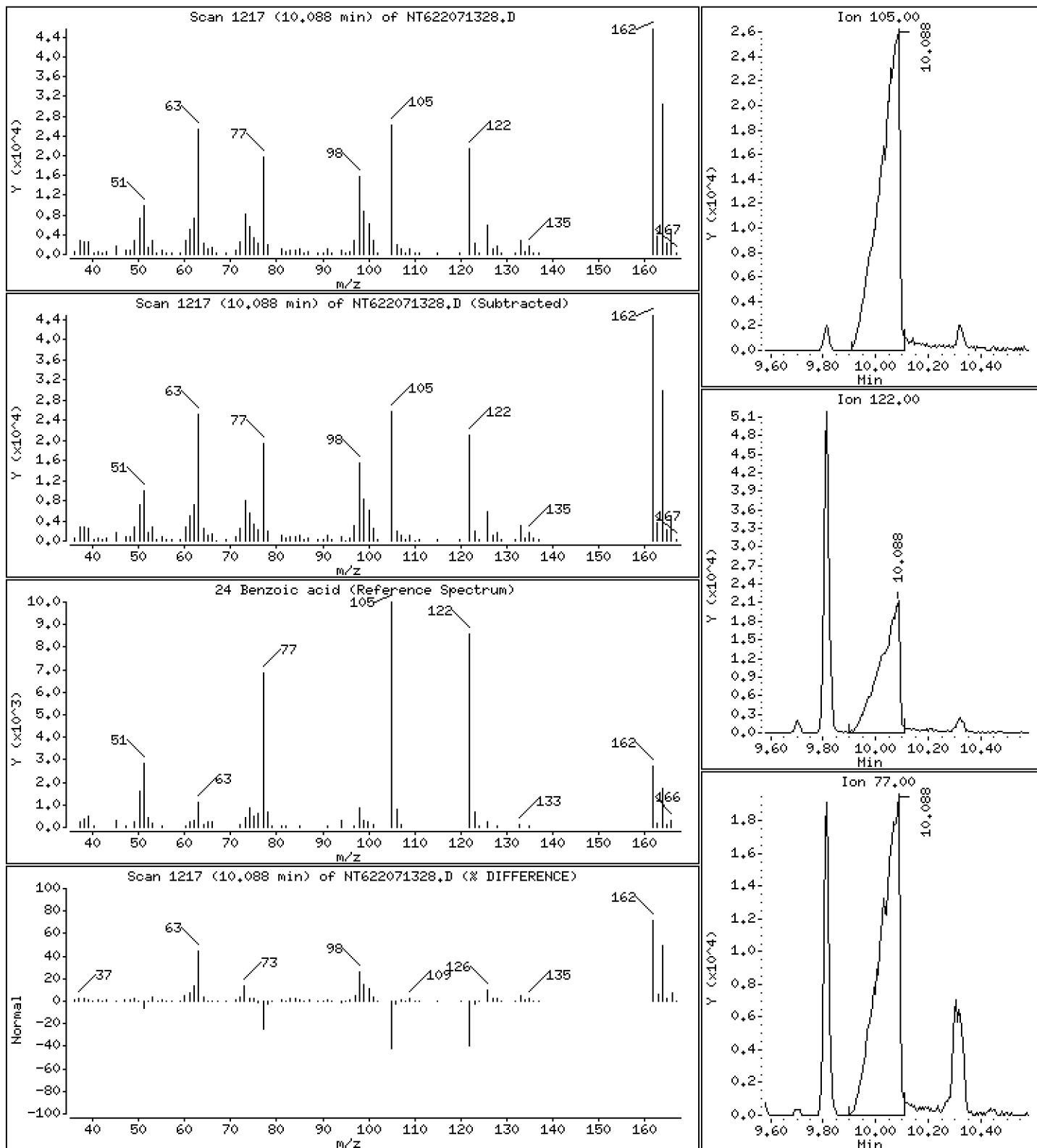
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

24 Benzoic acid

Concentration: 68.33 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

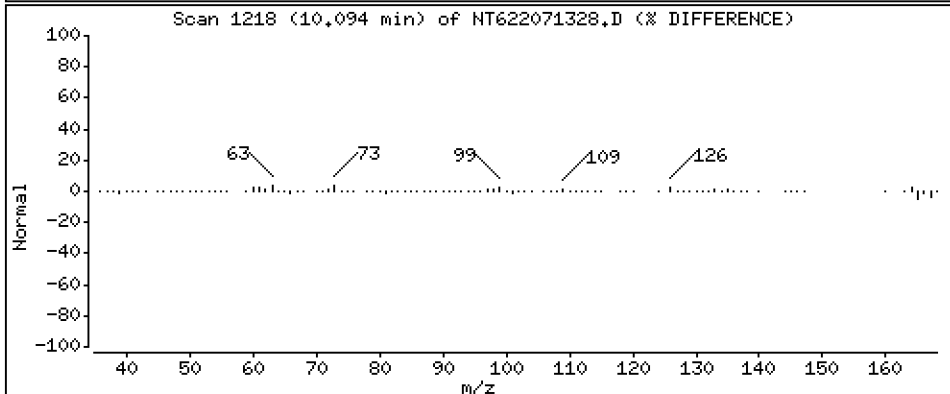
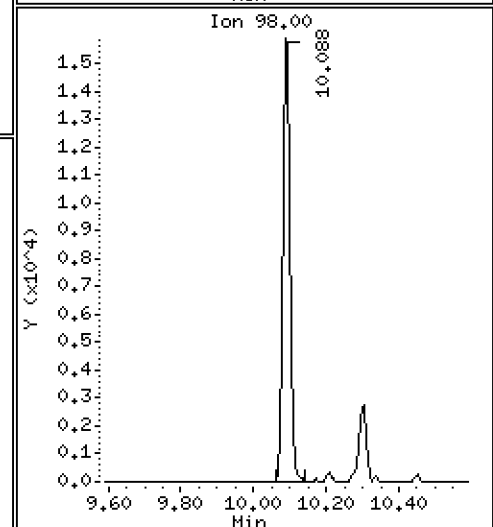
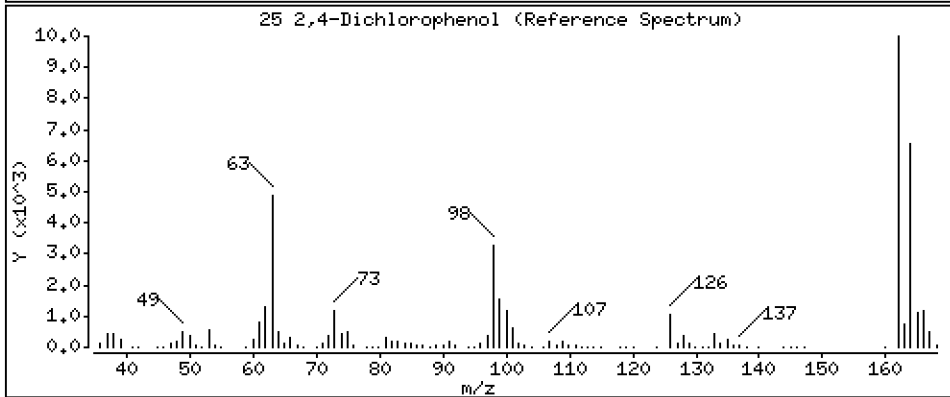
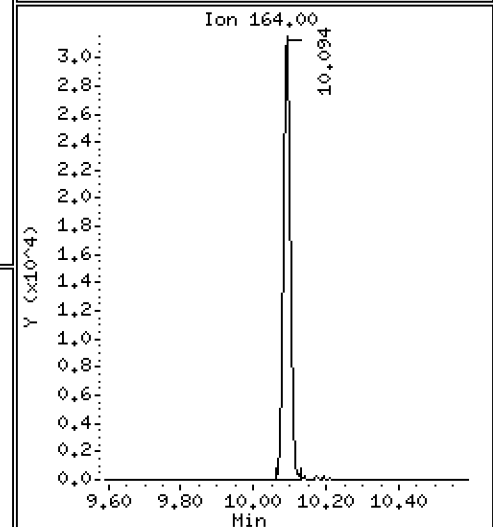
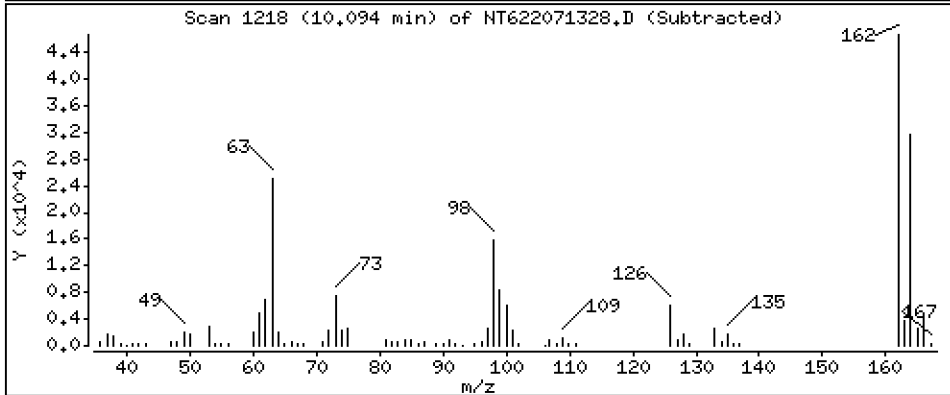
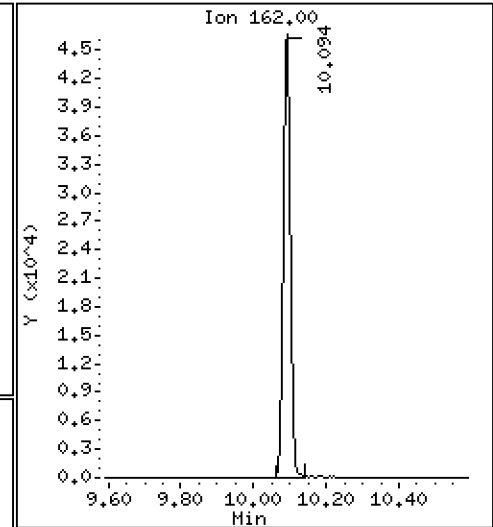
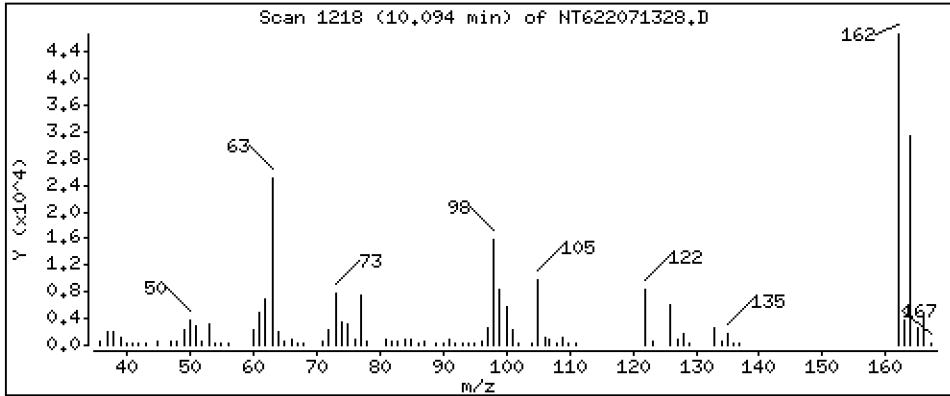
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

25 2,4-Dichlorophenol

Concentration: 24.97 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

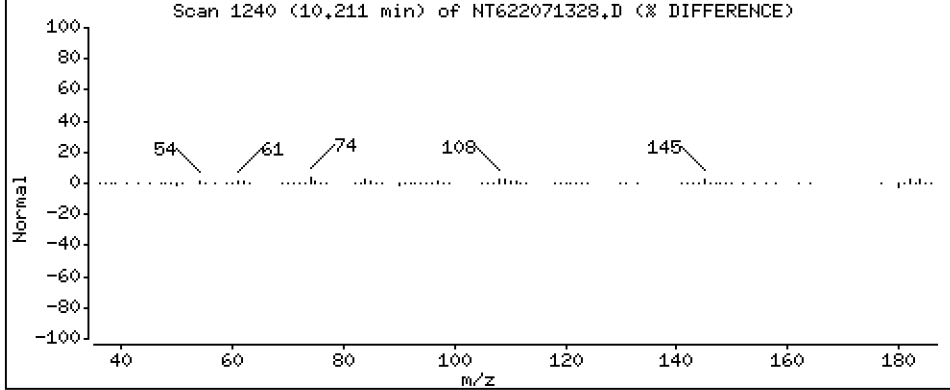
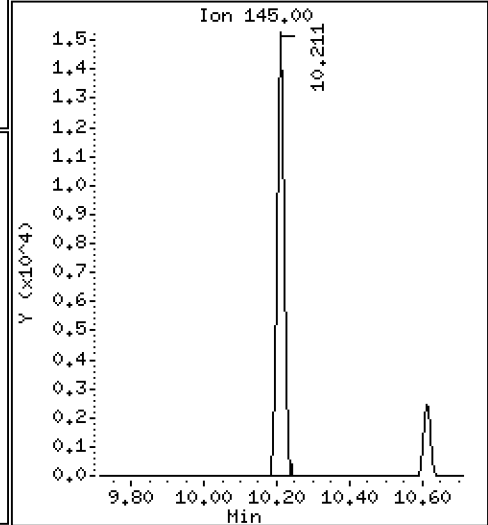
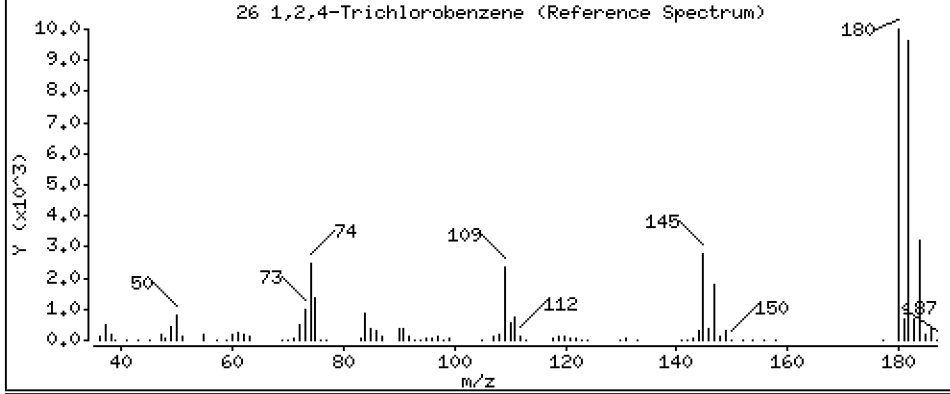
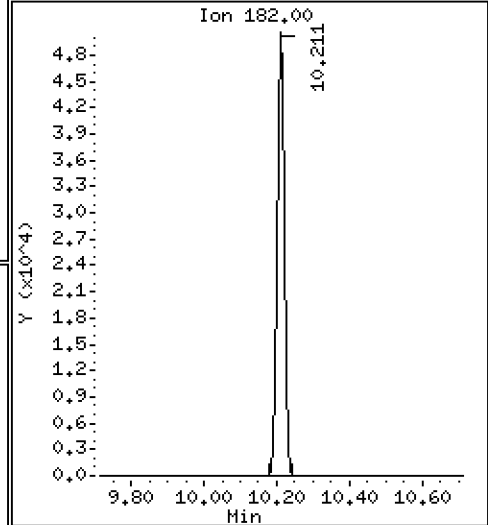
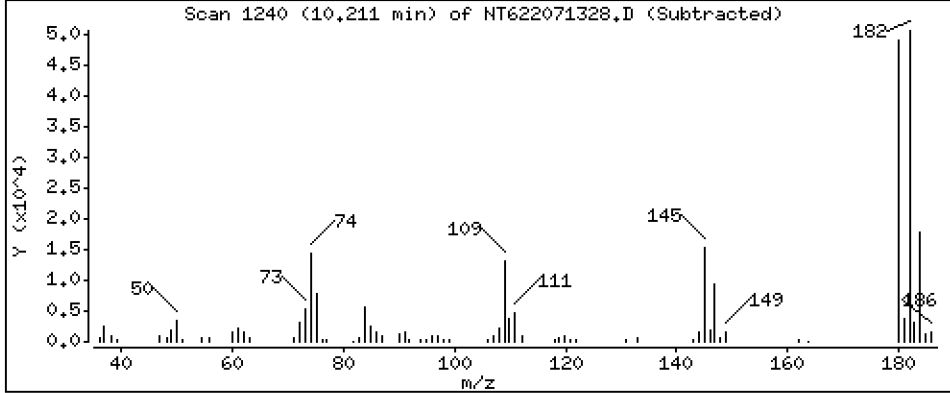
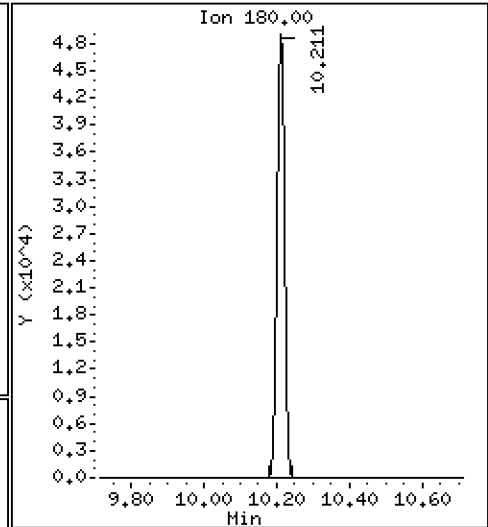
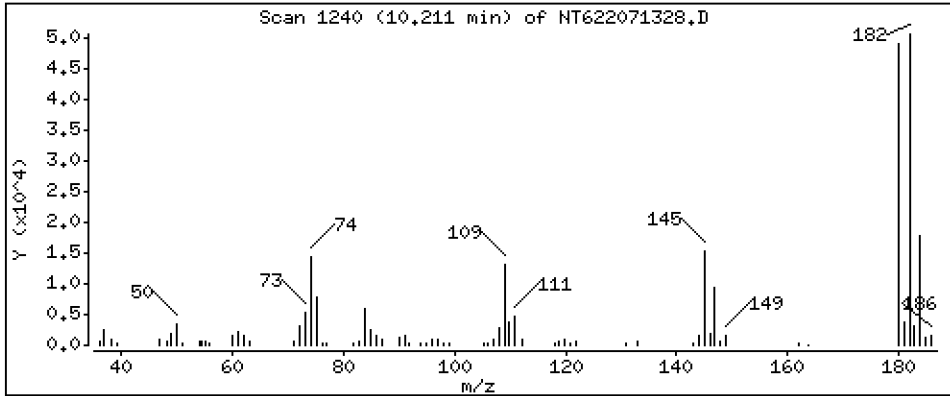
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

26 1,2,4-Trichlorobenzene

Concentration: 24.66 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

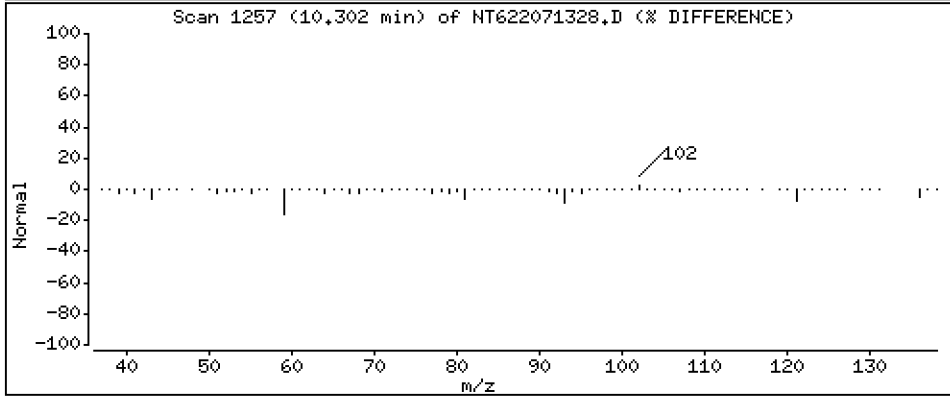
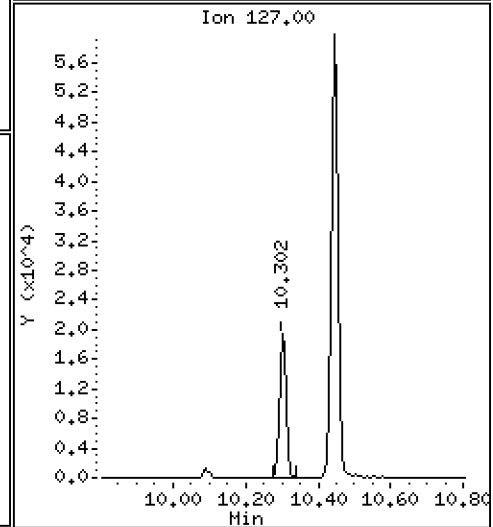
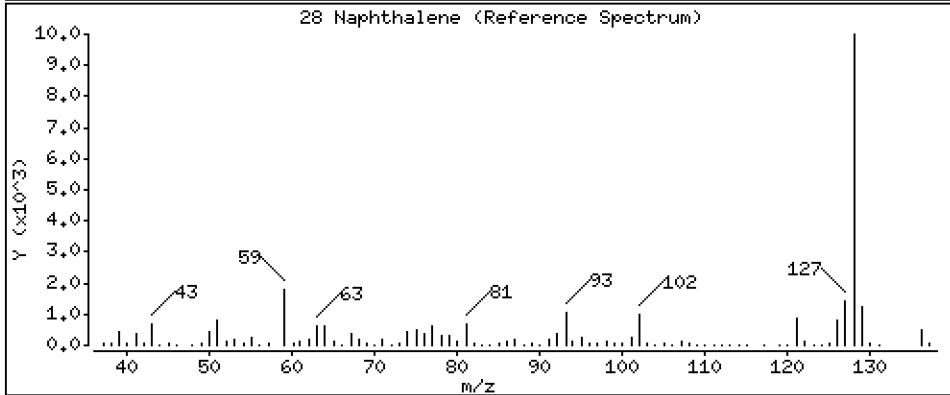
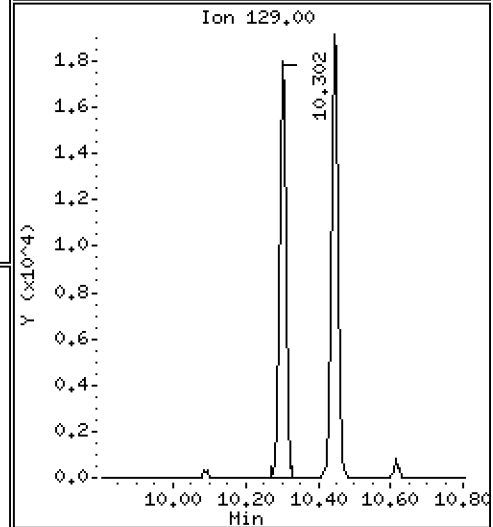
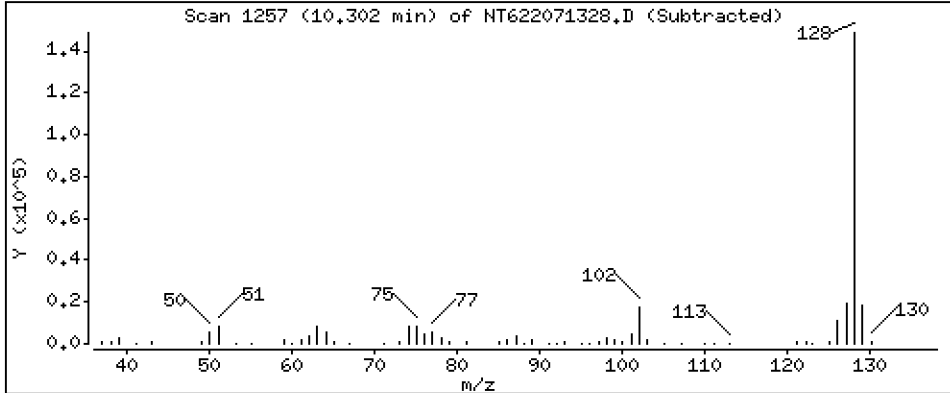
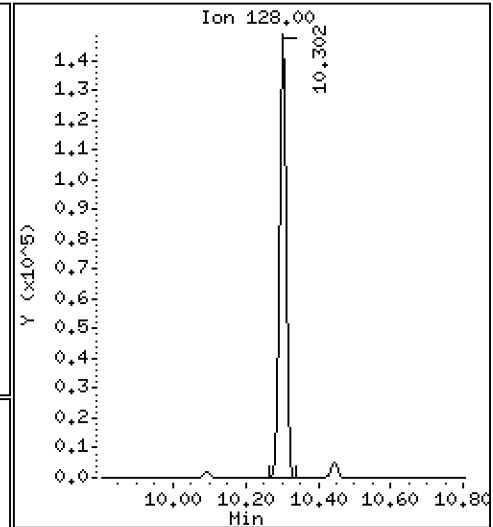
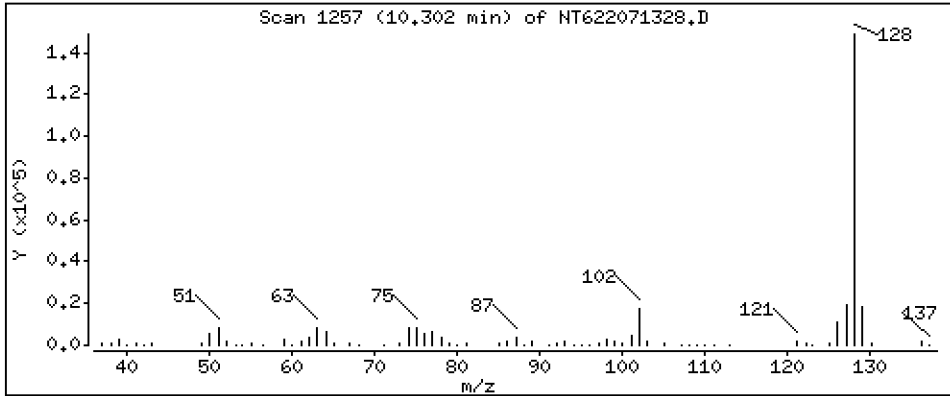
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

28 Naphthalene

Concentration: 24.56 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

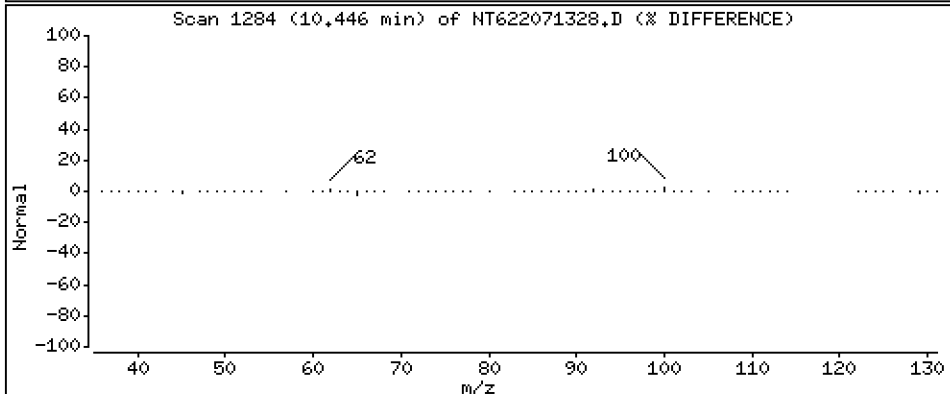
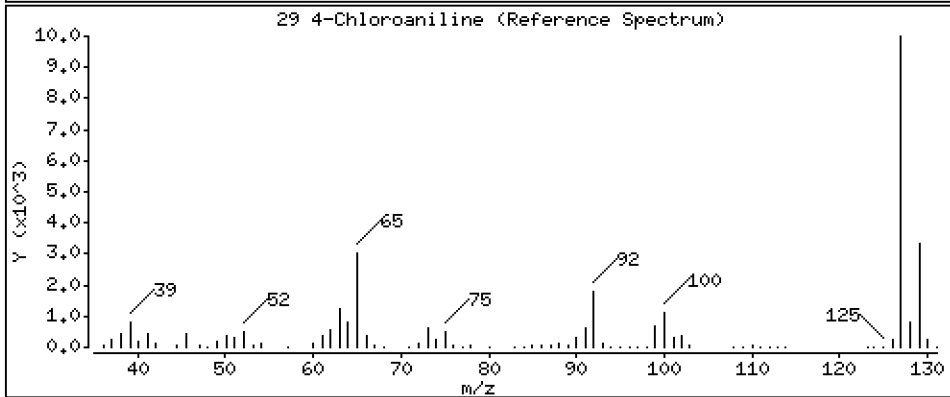
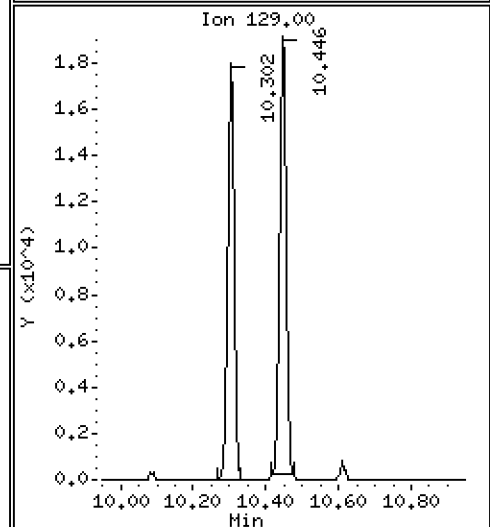
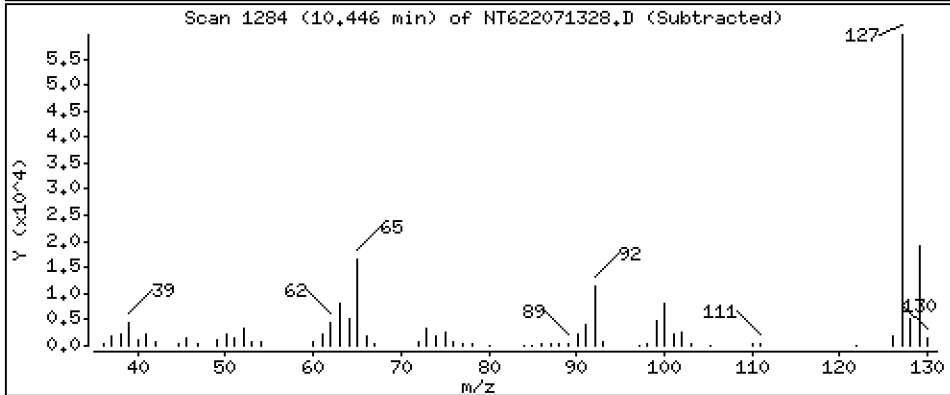
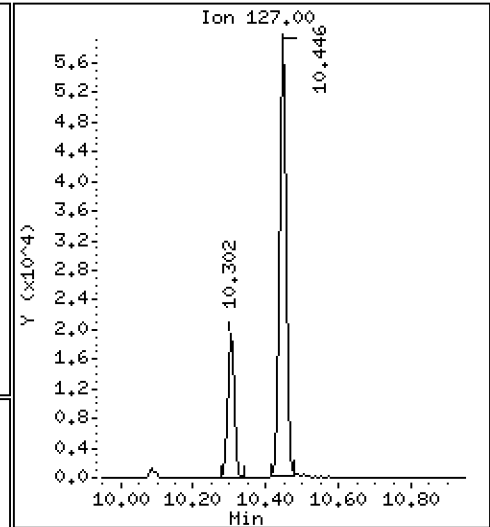
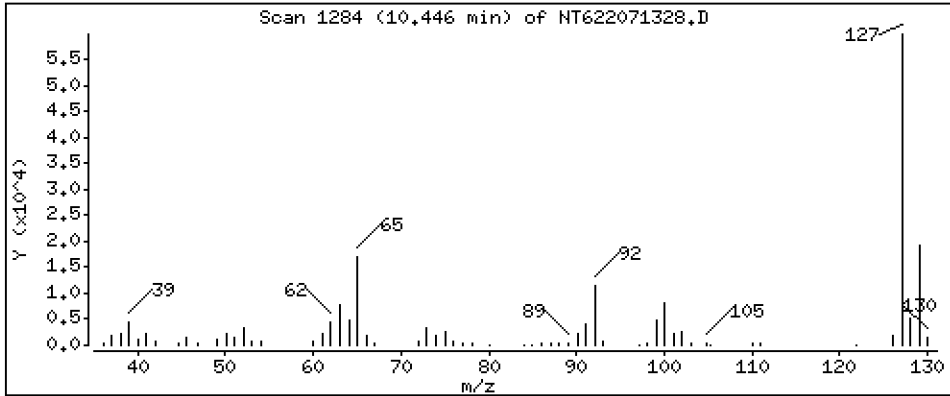
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

29 4-Chloroaniline

Concentration: 23.58 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

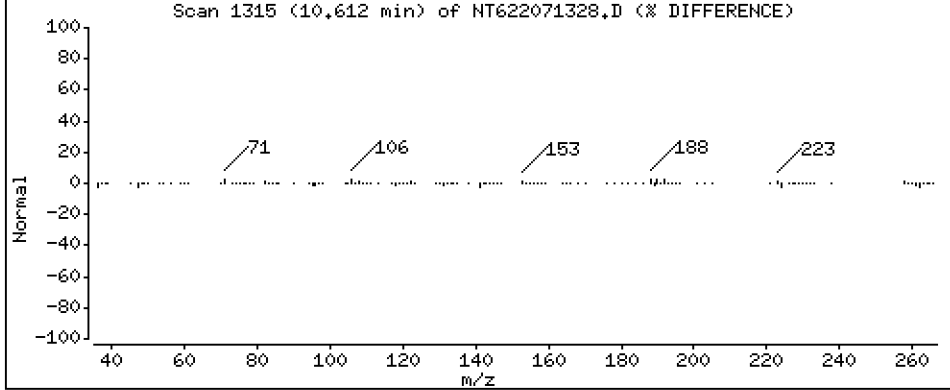
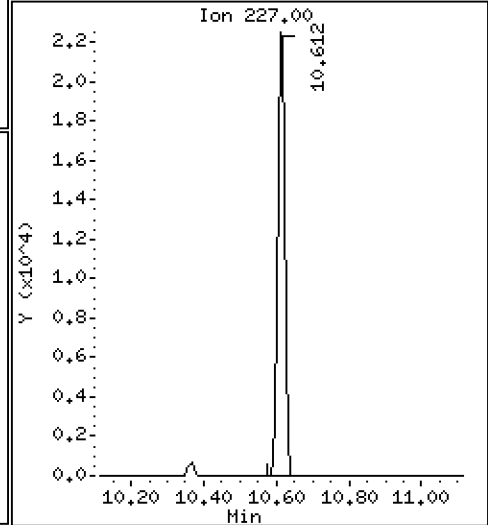
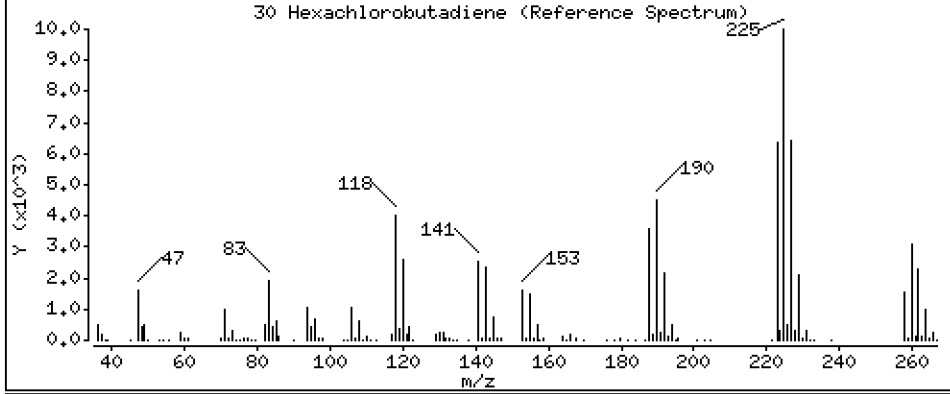
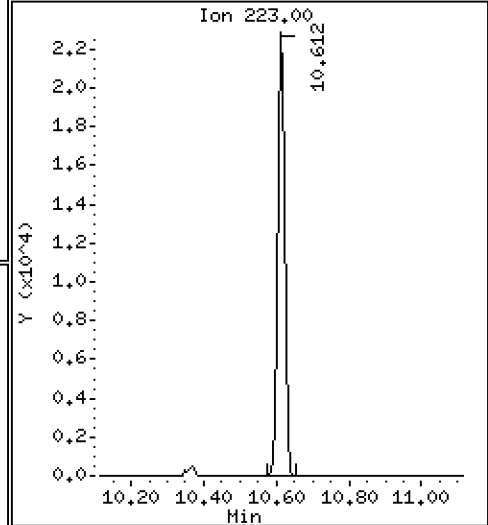
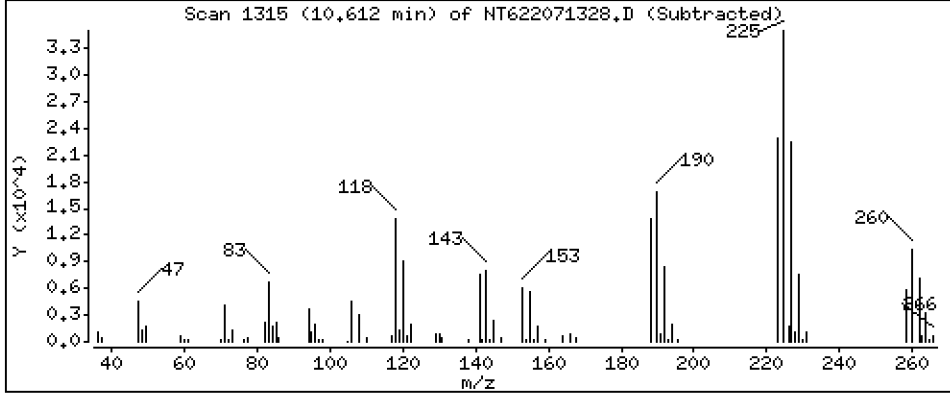
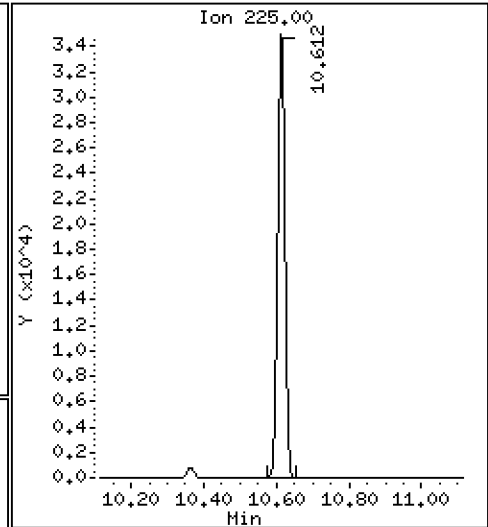
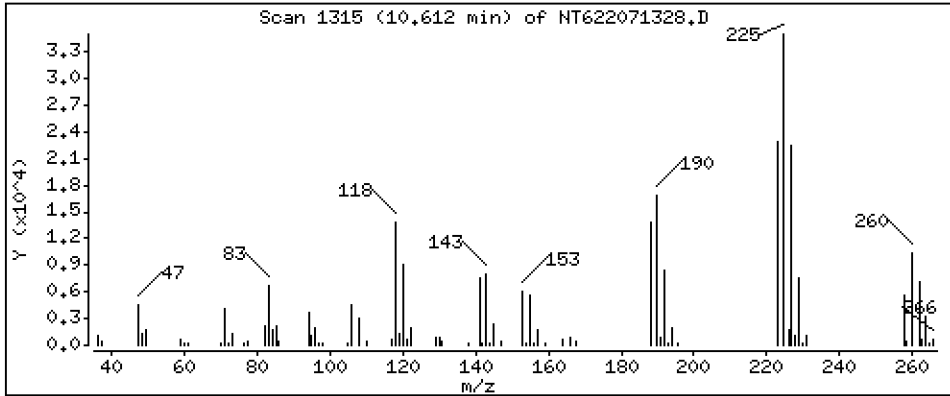
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

30 Hexachlorobutadiene

Concentration: 26.01 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

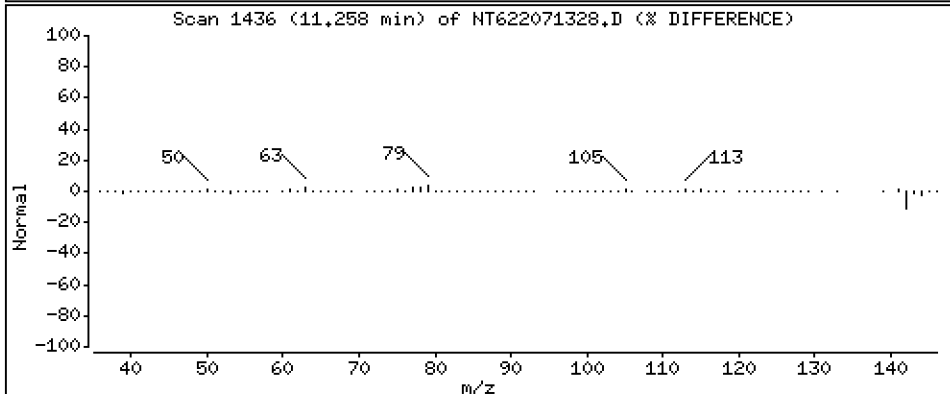
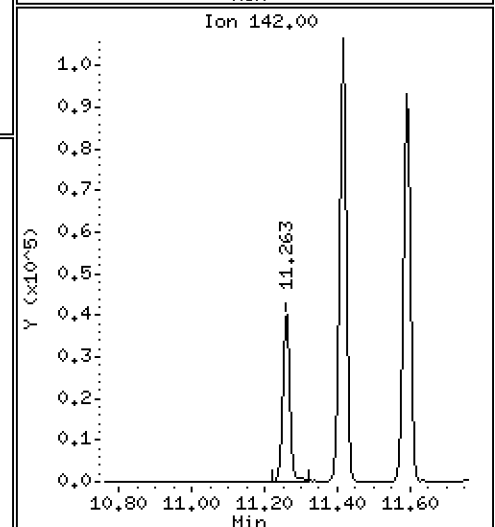
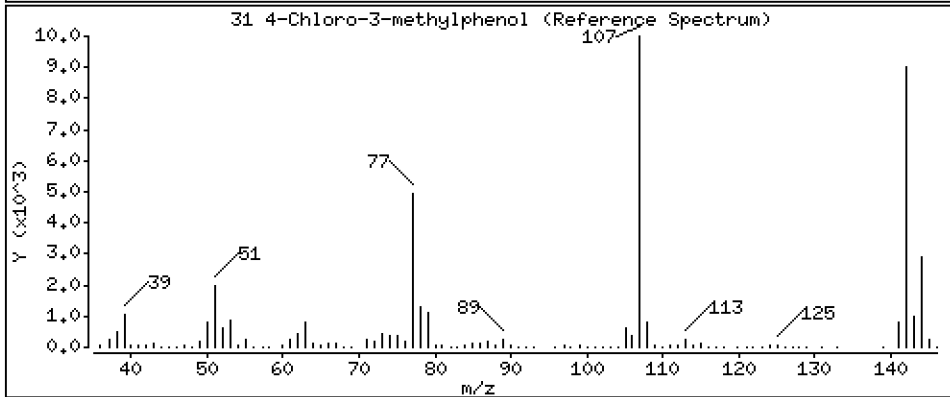
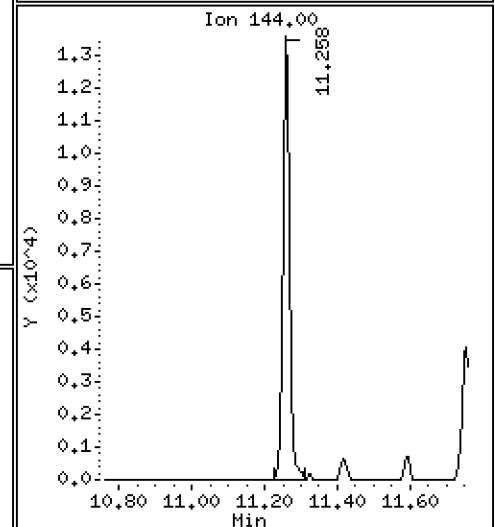
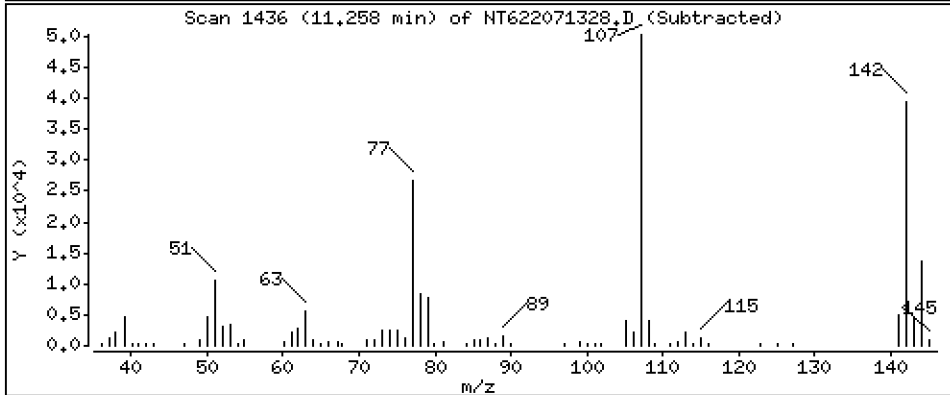
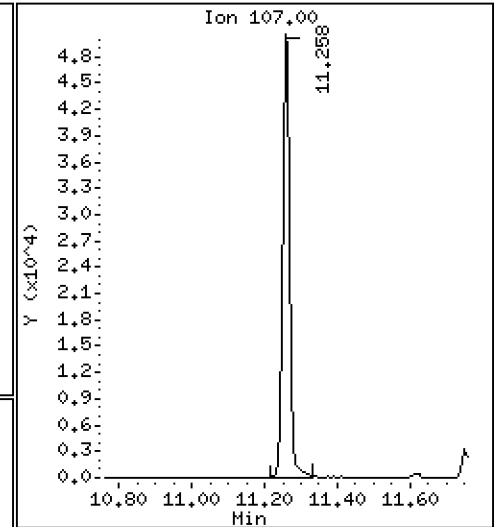
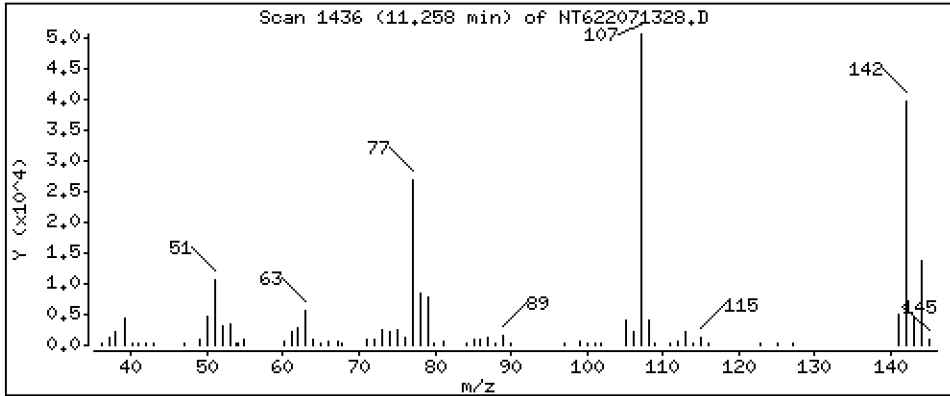
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

31 4-Chloro-3-methylphenol

Concentration: 26.50 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

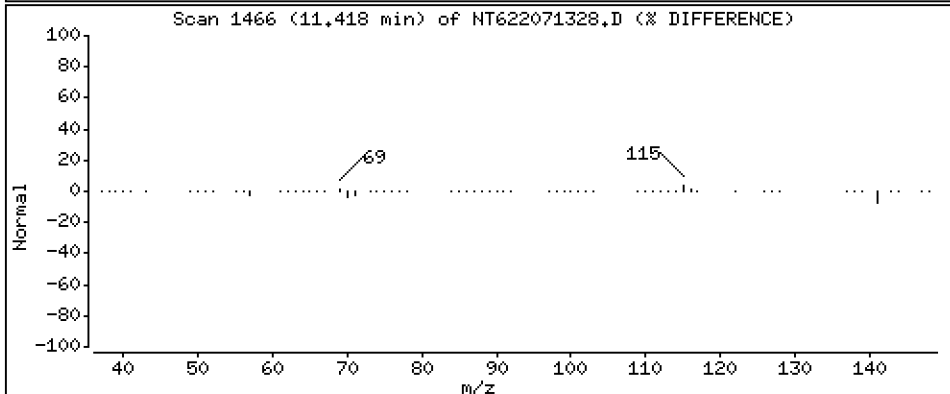
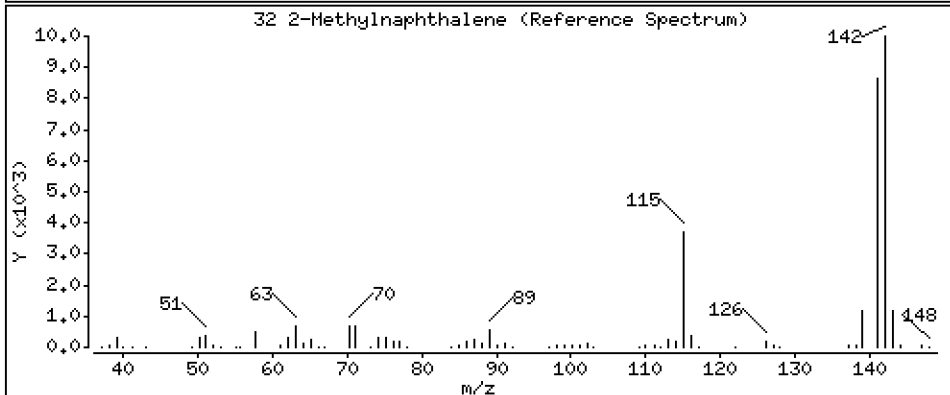
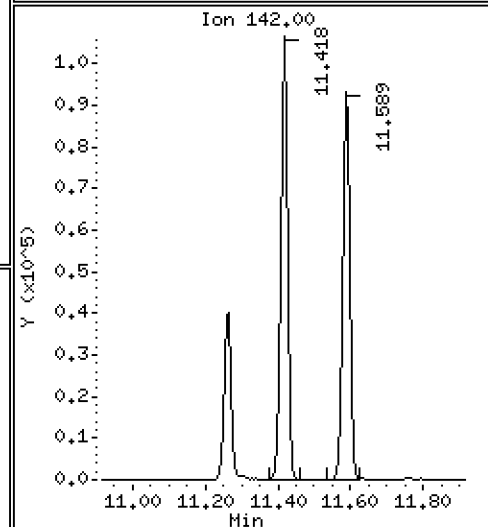
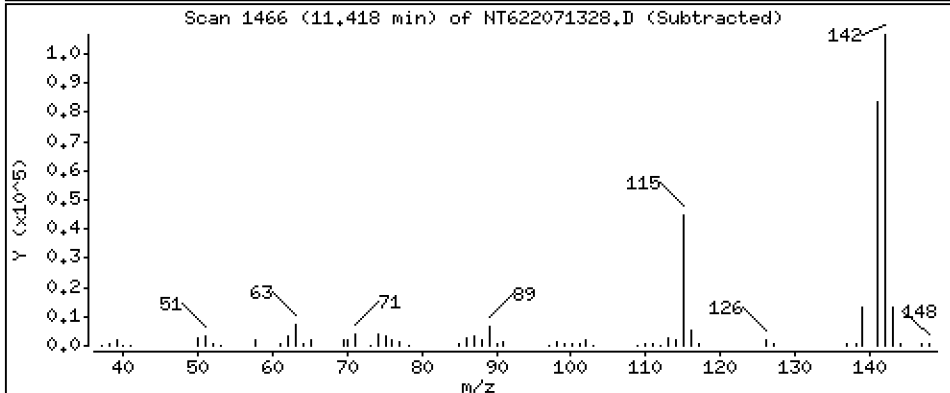
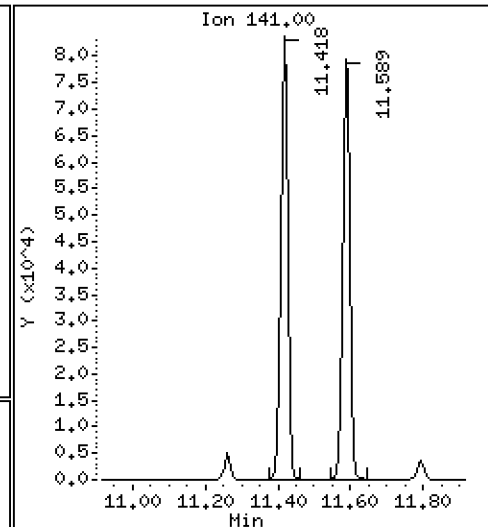
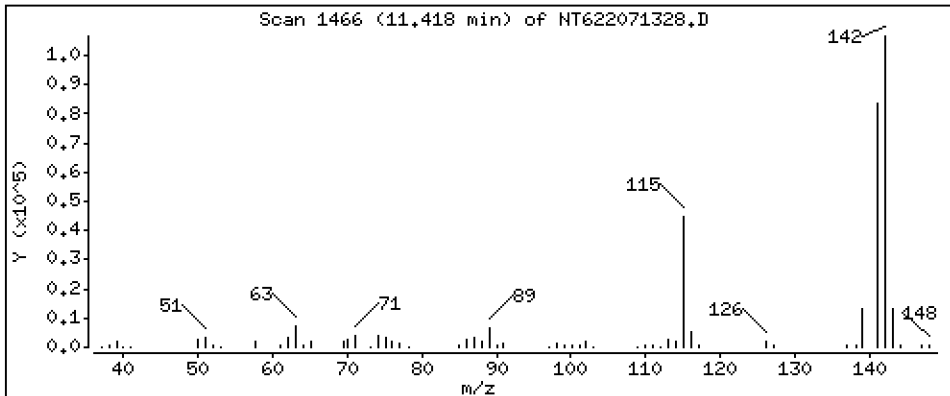
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

32 2-Methylnaphthalene

Concentration: 25.46 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

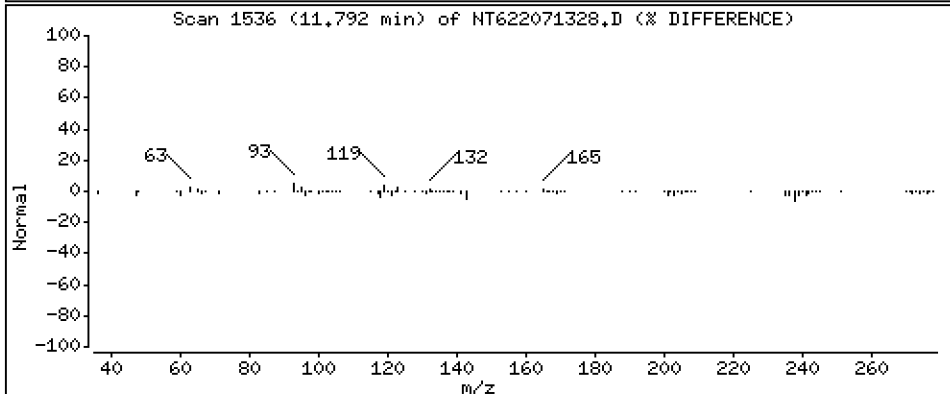
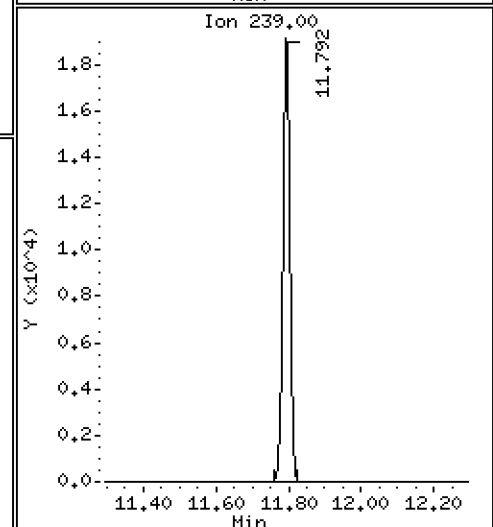
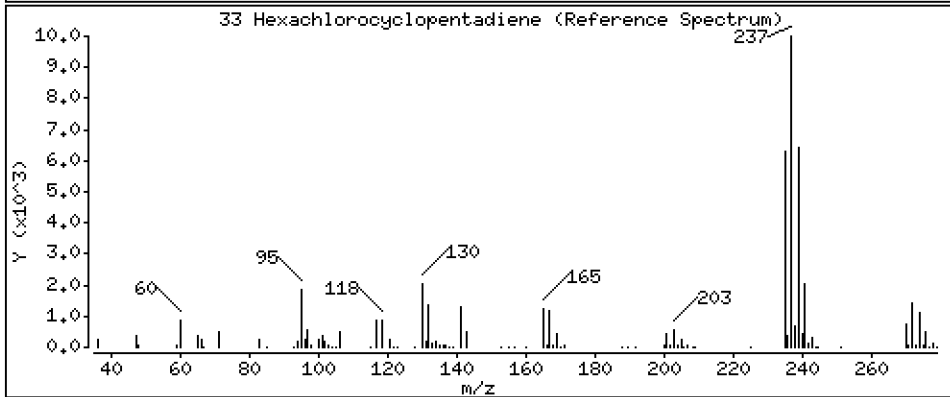
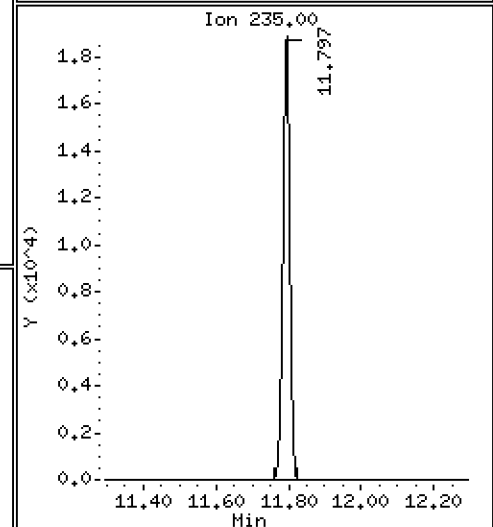
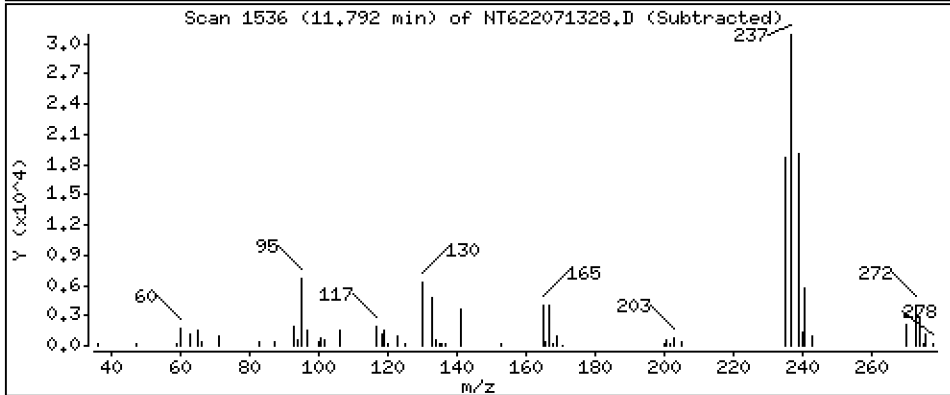
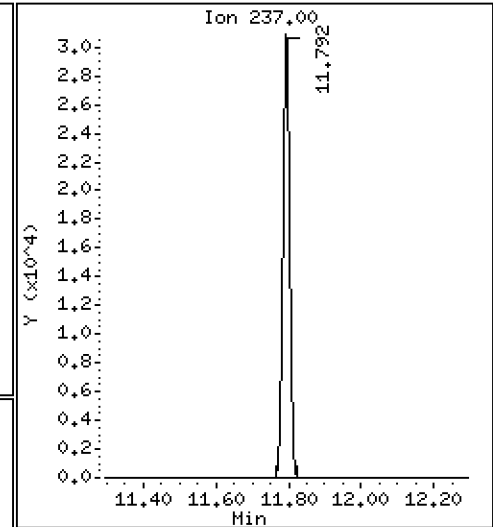
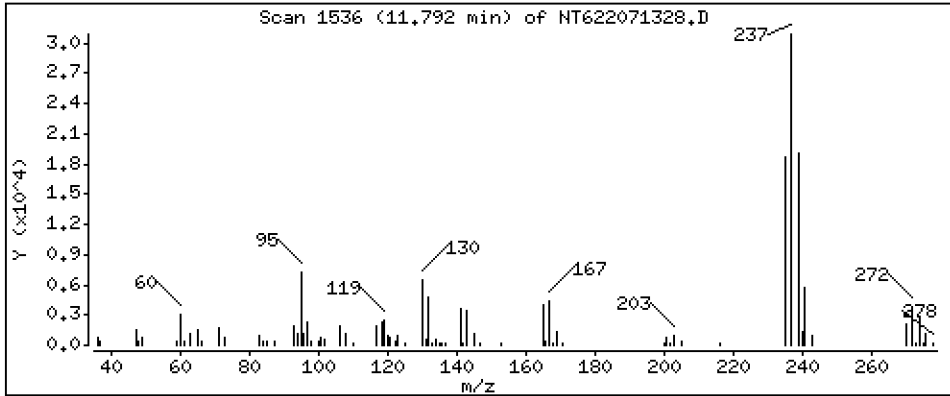
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

33 Hexachlorocyclopentadiene

Concentration: 17.69 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

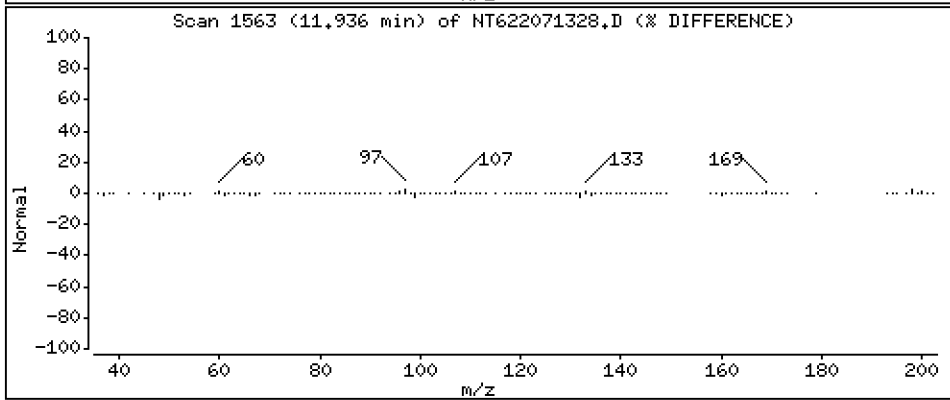
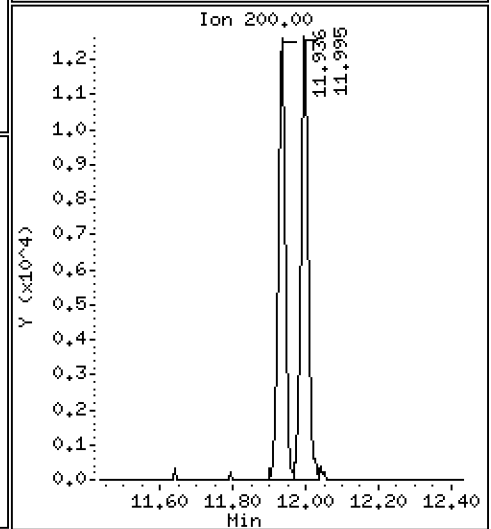
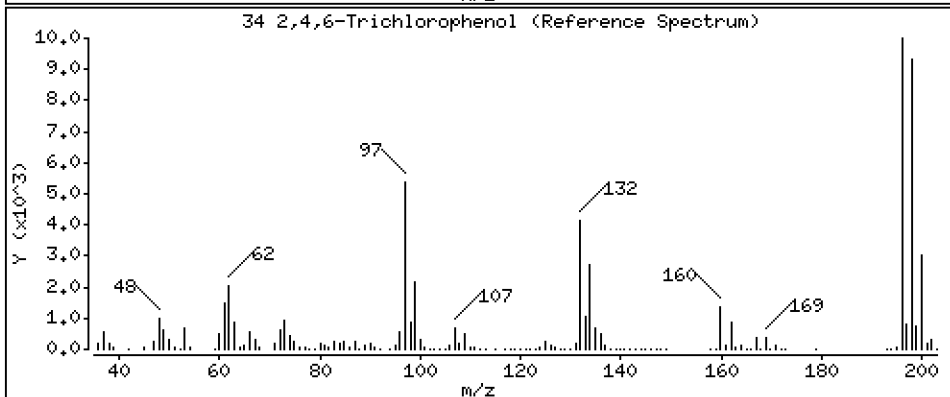
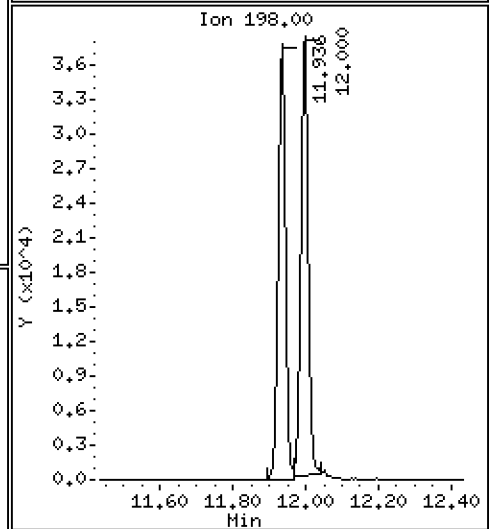
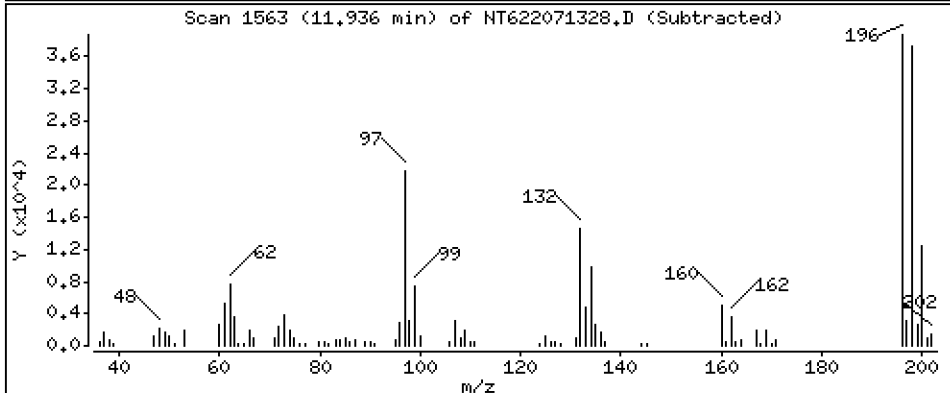
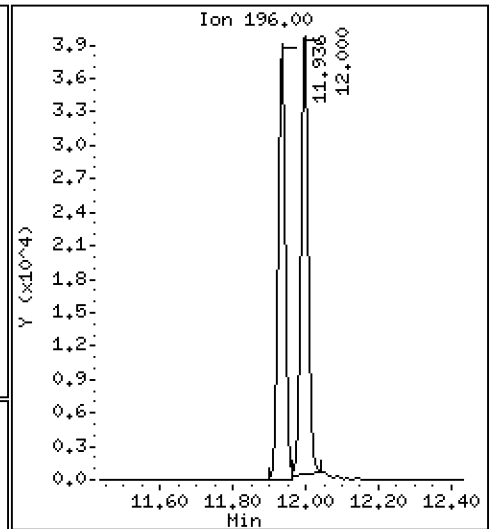
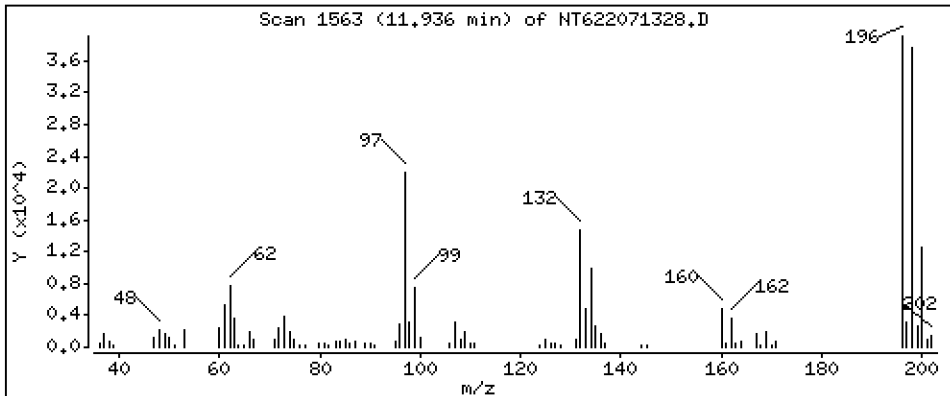
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

34 2,4,6-Trichlorophenol

Concentration: 22.98 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

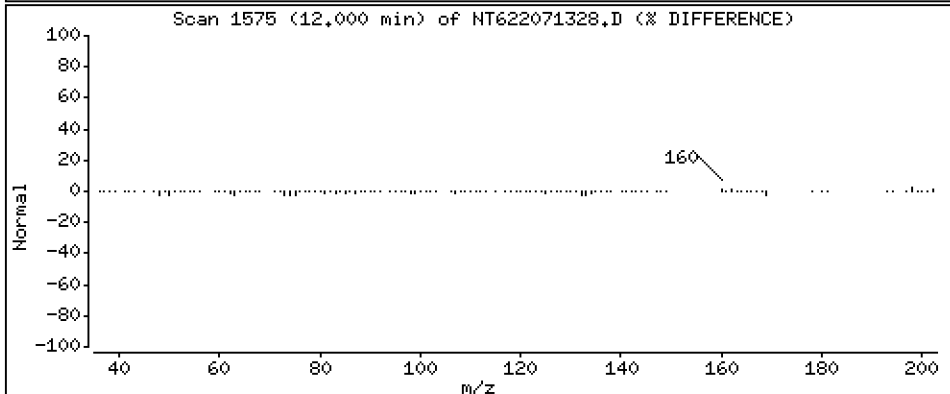
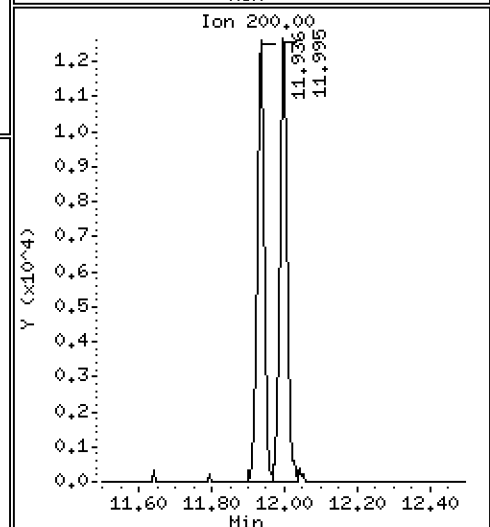
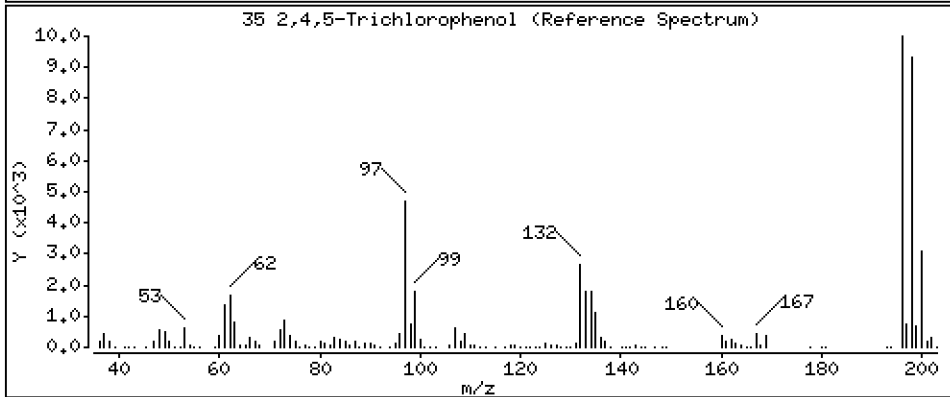
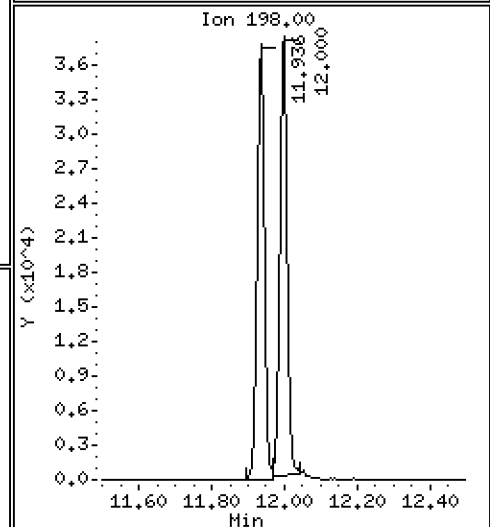
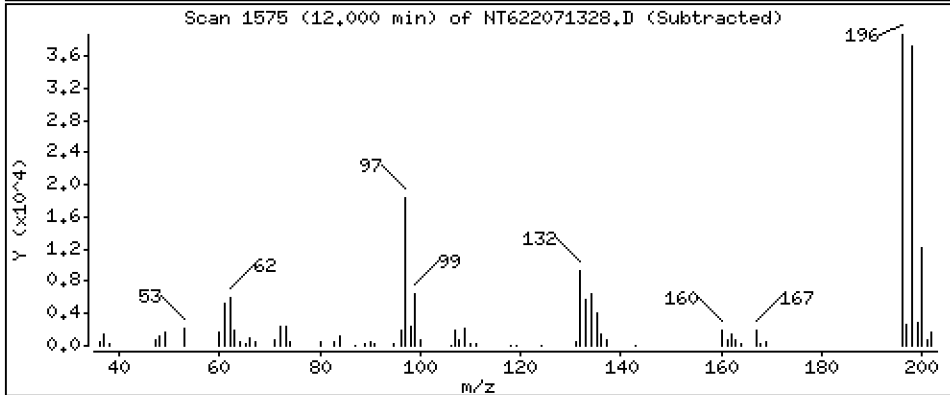
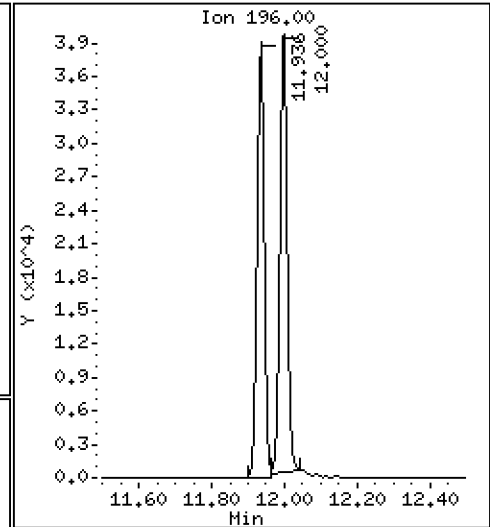
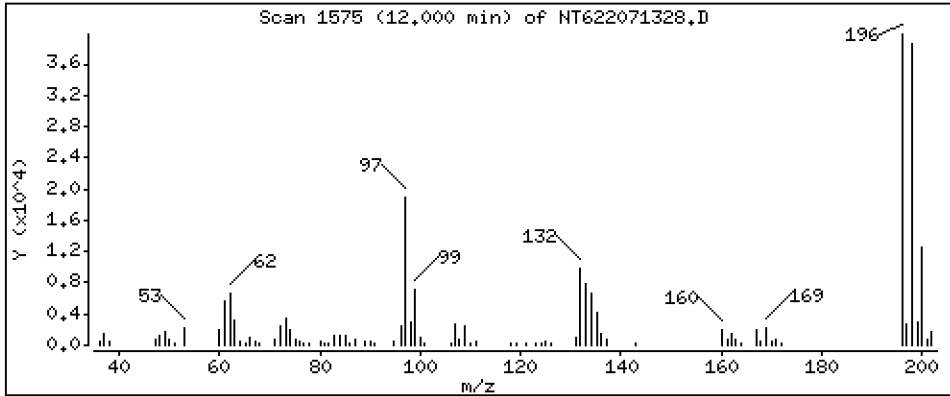
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

35 2,4,5-Trichlorophenol

Concentration: 22,12 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

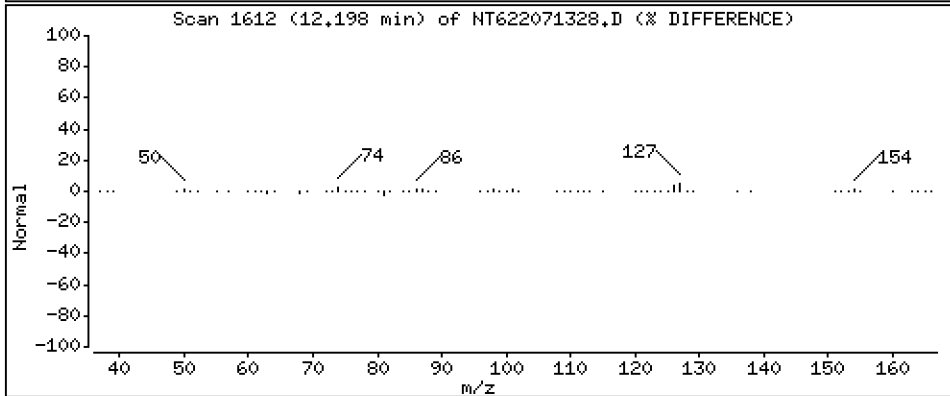
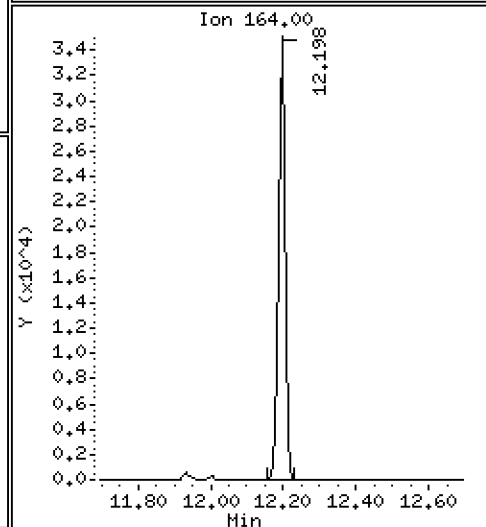
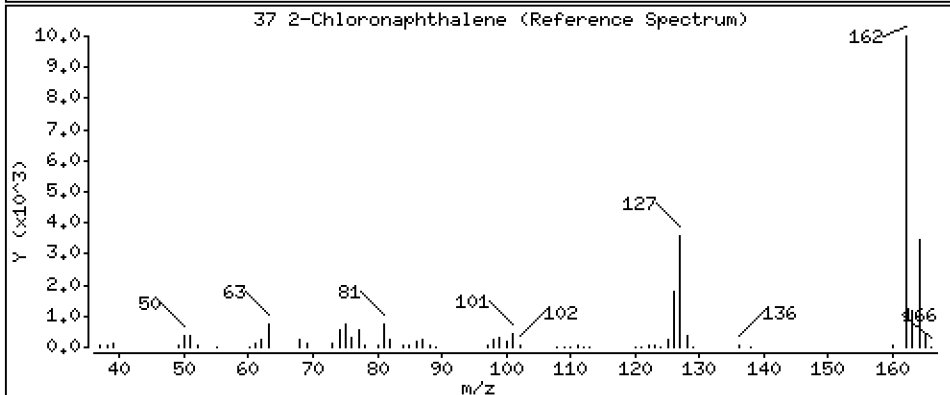
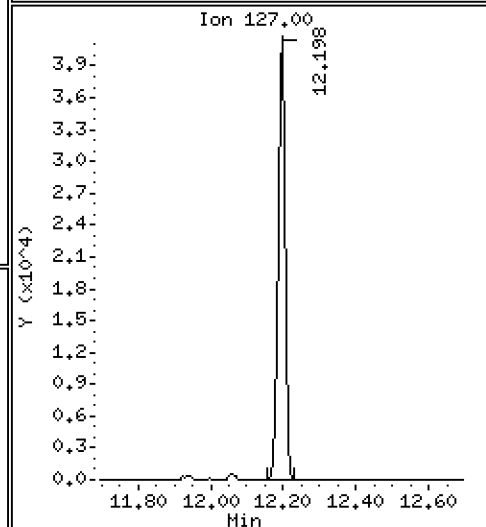
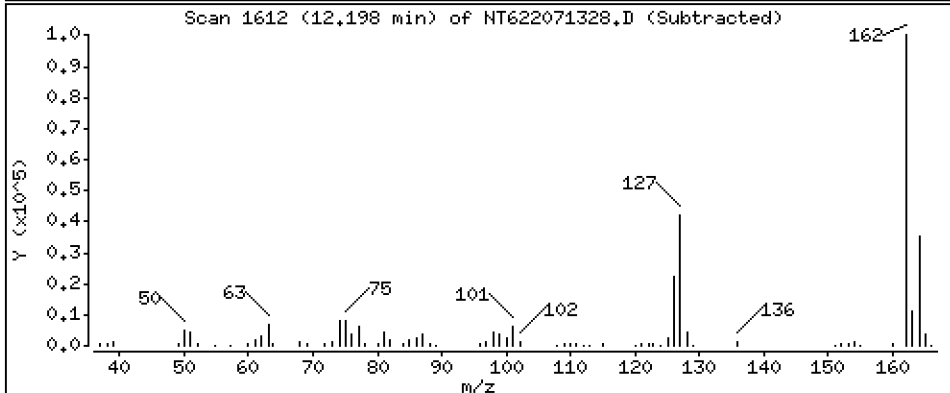
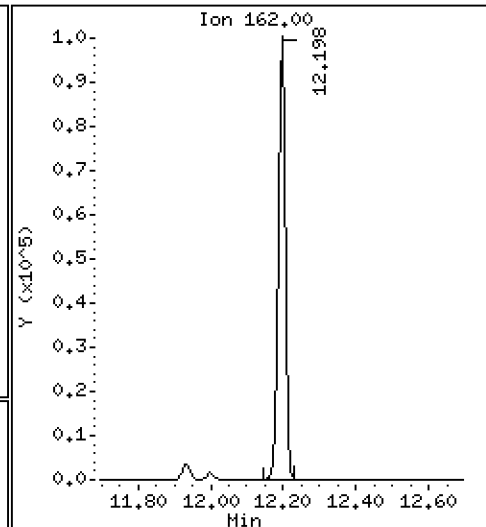
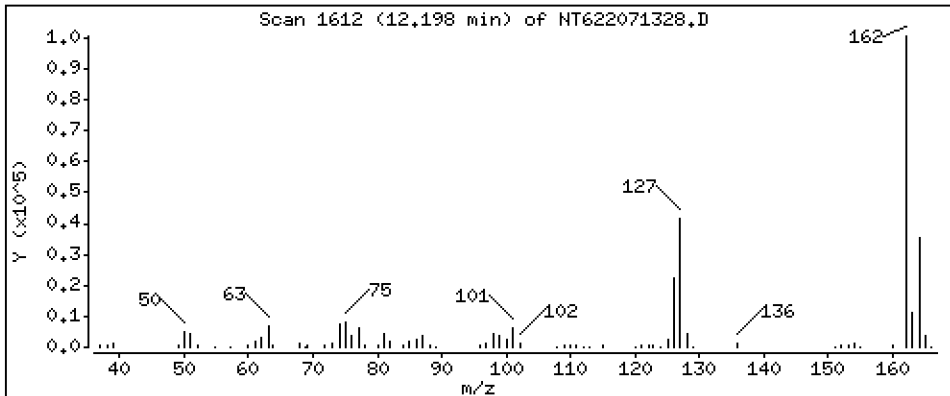
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

37 2-Chloronaphthalene

Concentration: 22,33 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

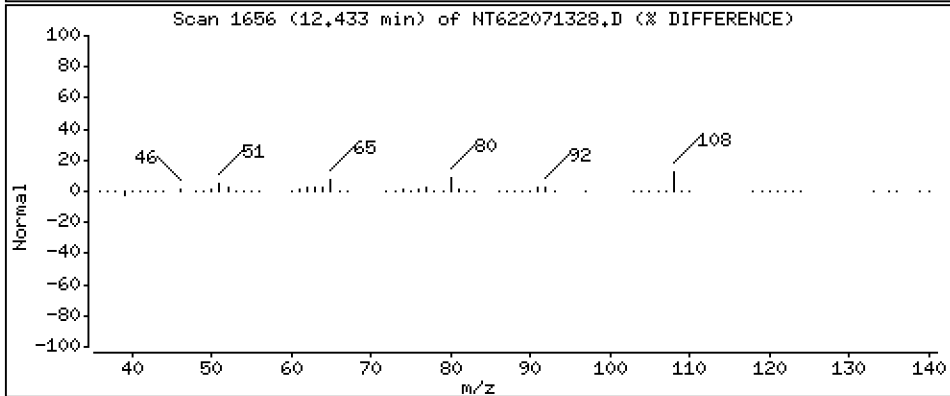
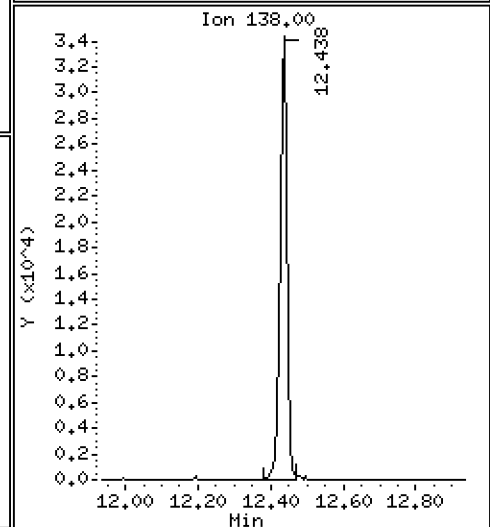
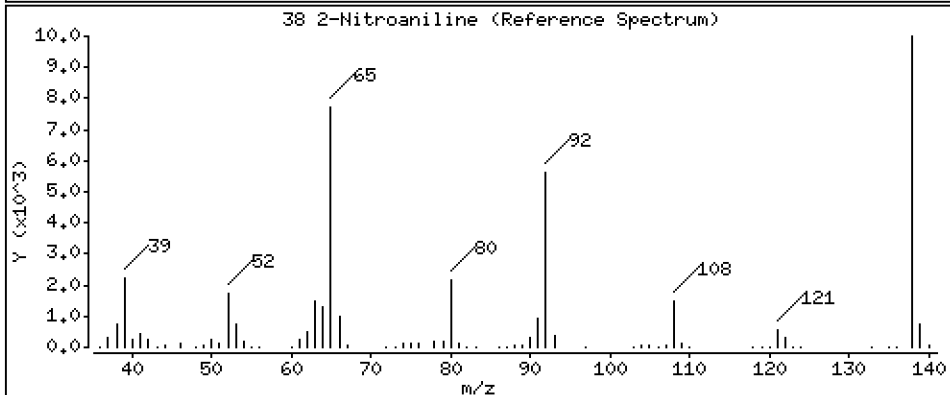
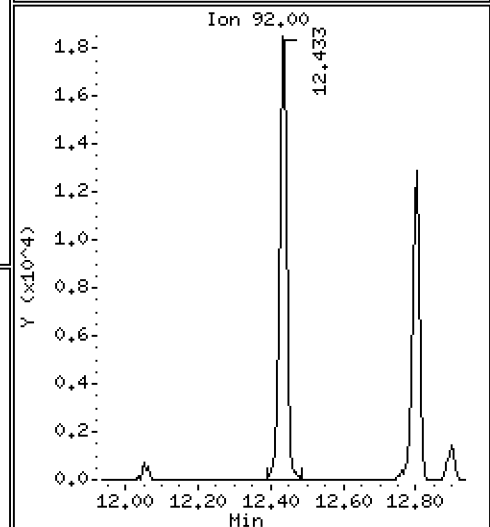
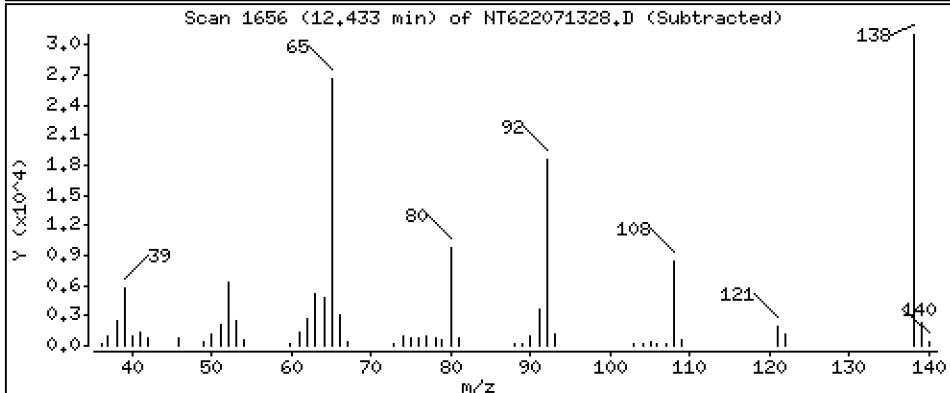
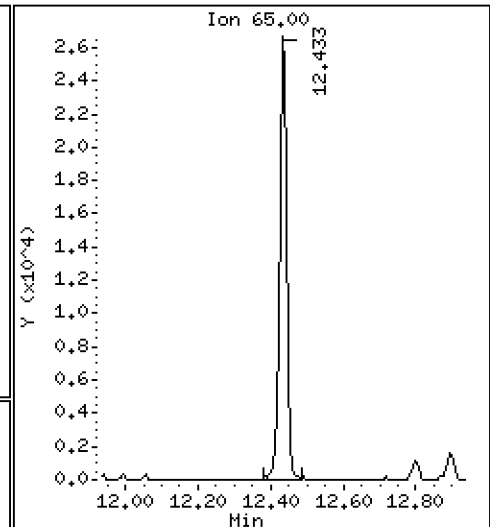
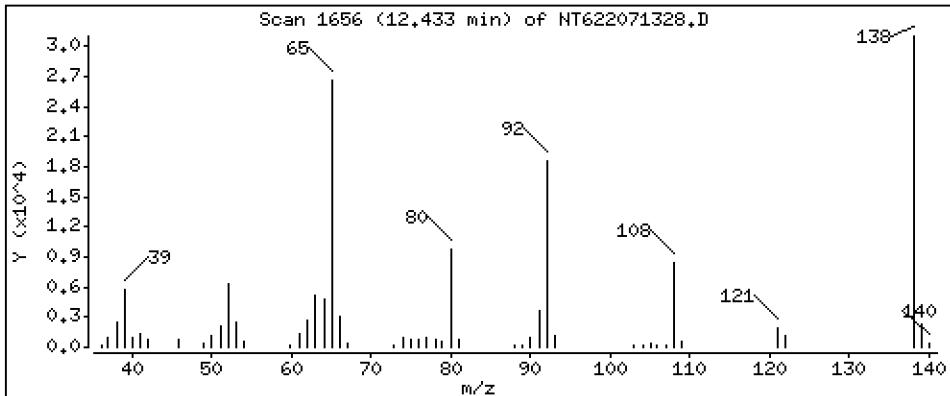
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

38 2-Nitroaniline

Concentration: 23.76 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

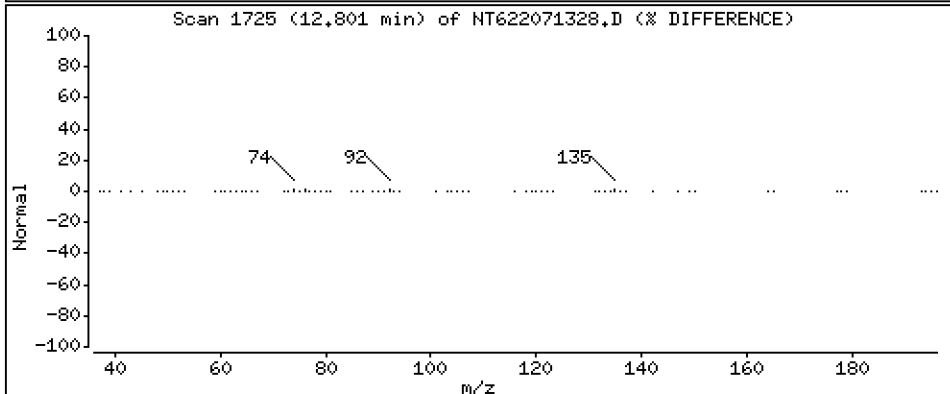
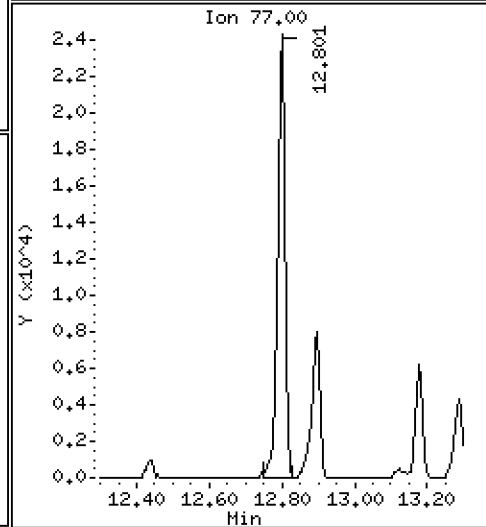
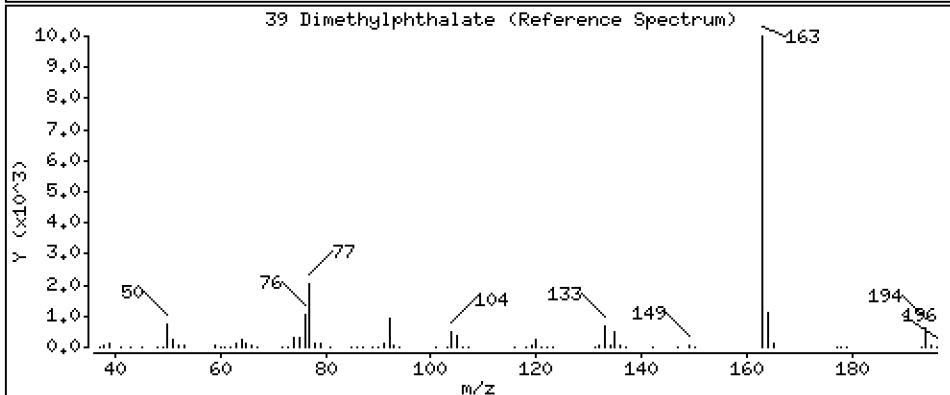
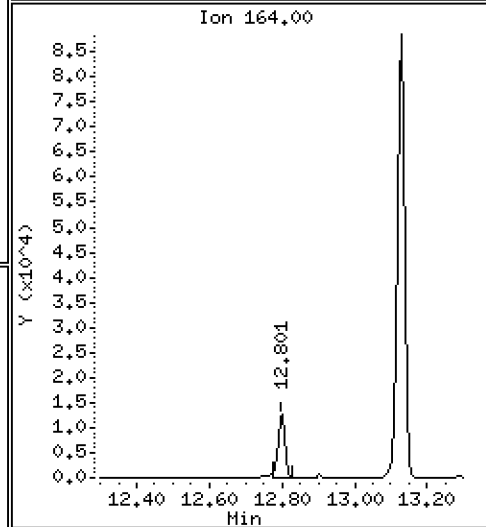
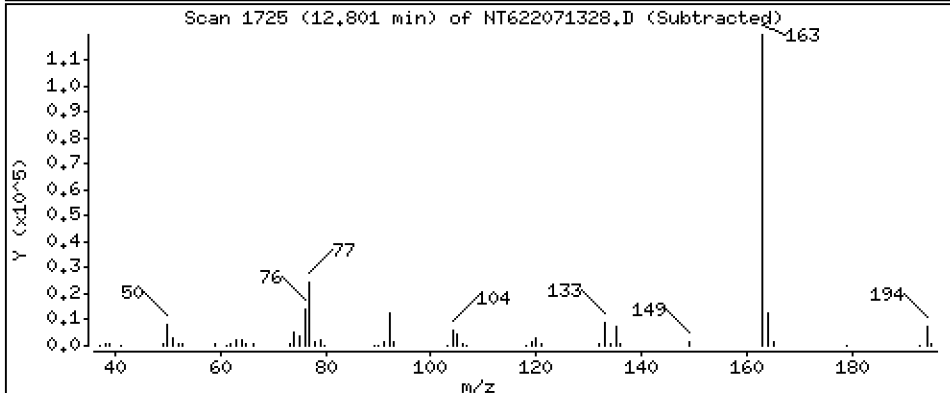
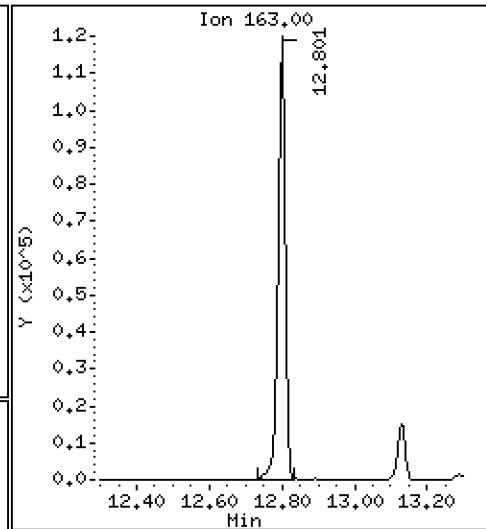
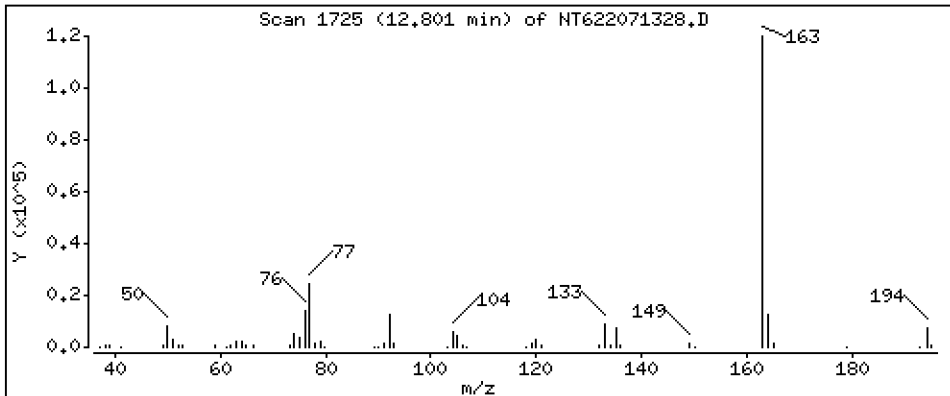
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

39 Dimethylphthalate

Concentration: 24.79 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

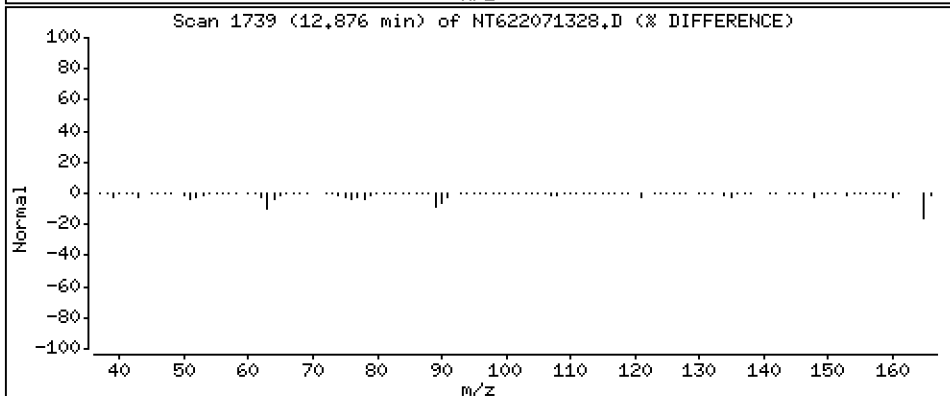
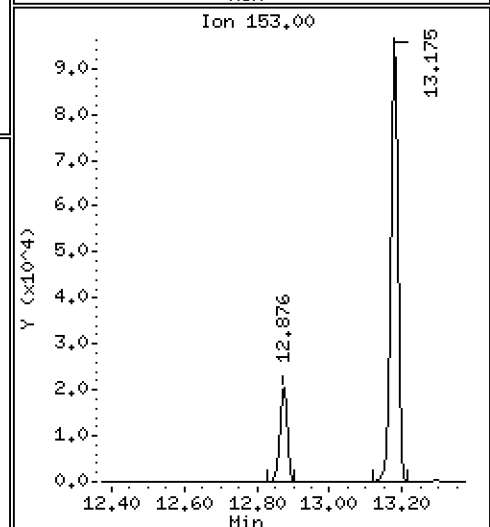
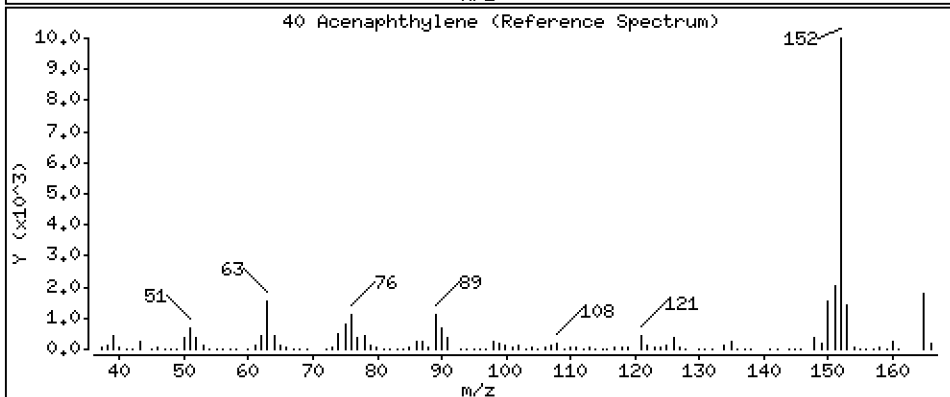
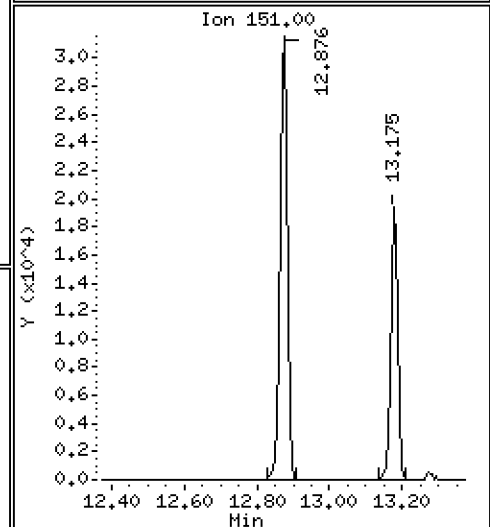
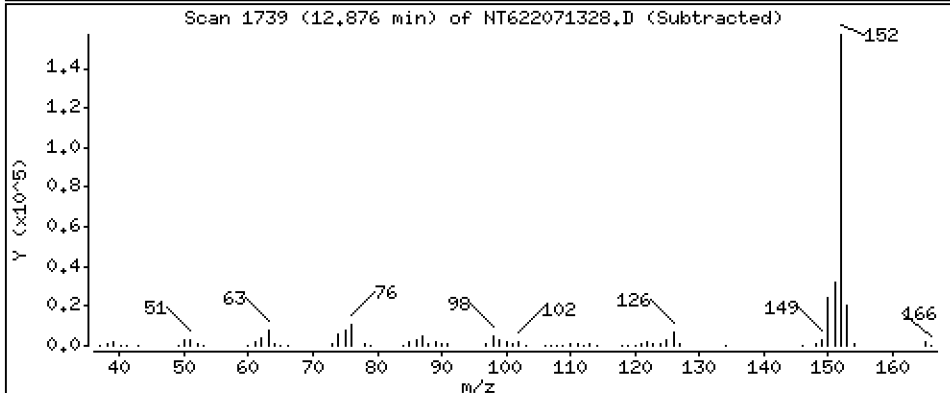
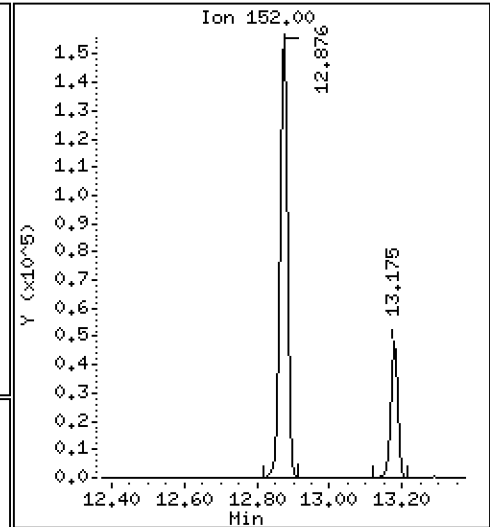
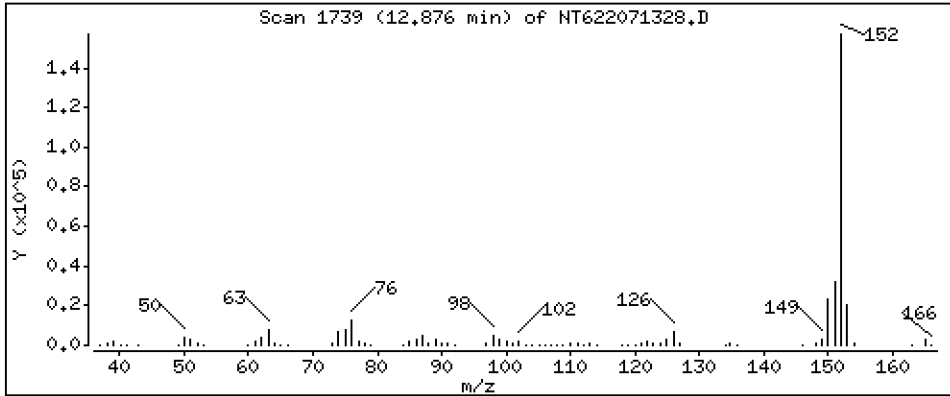
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

40 Acenaphthylene

Concentration: 23,17 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

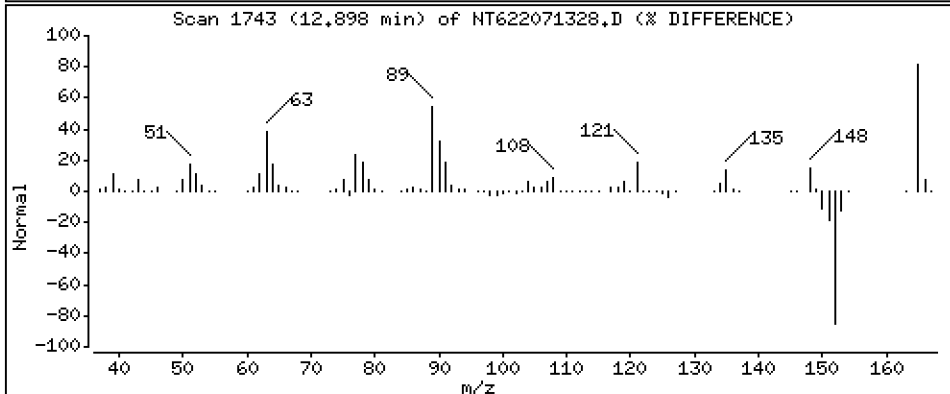
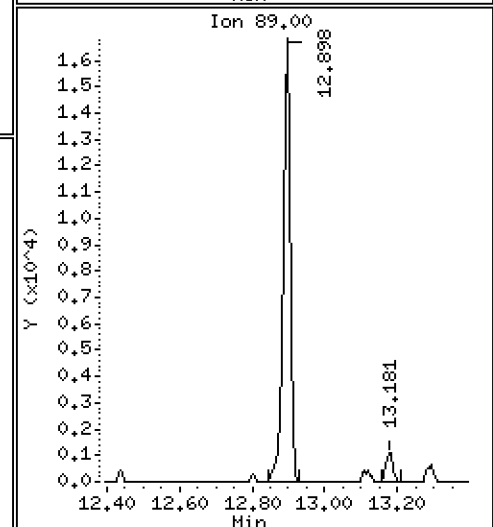
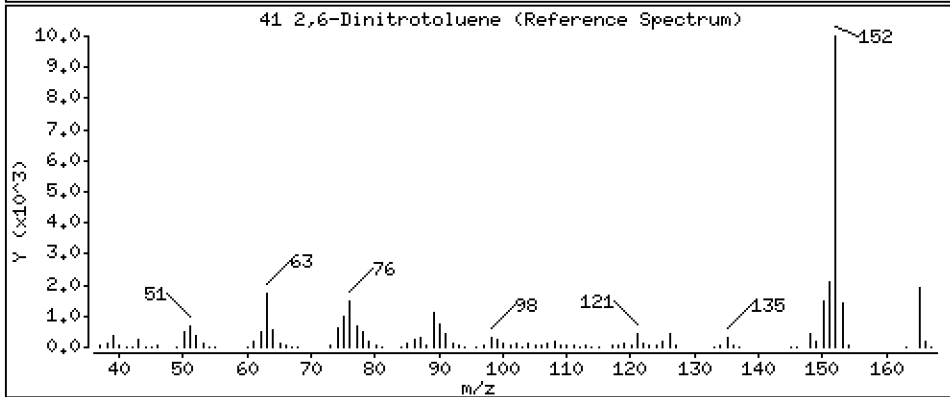
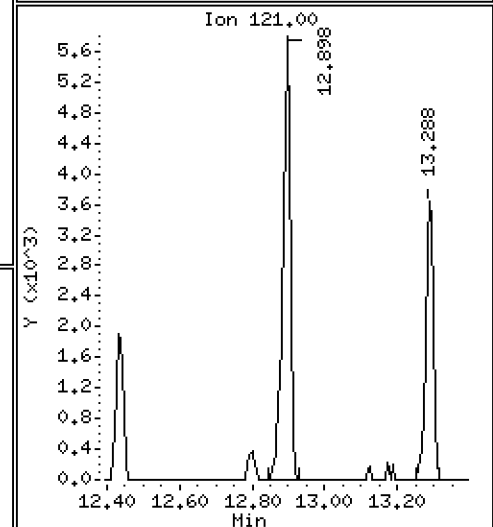
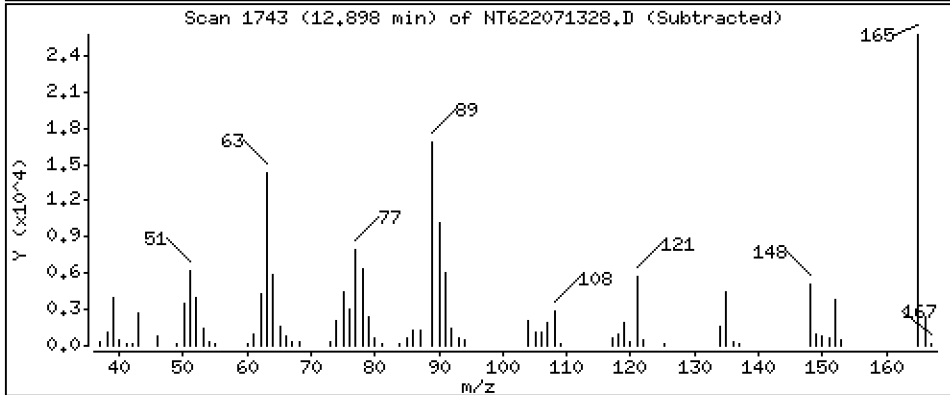
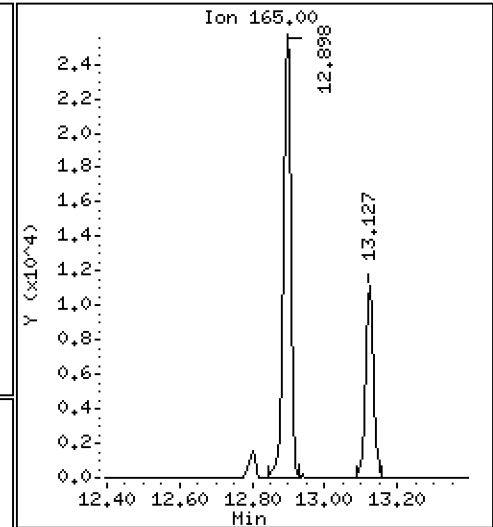
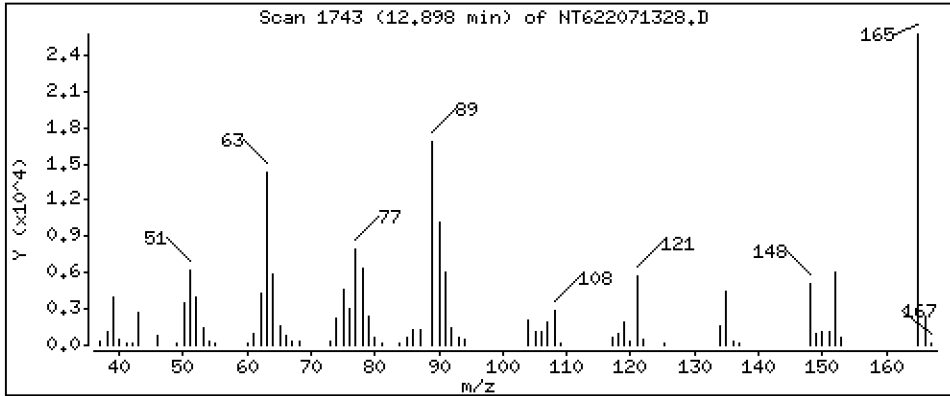
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

41 2,6-Dinitrotoluene

Concentration: 24.54 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

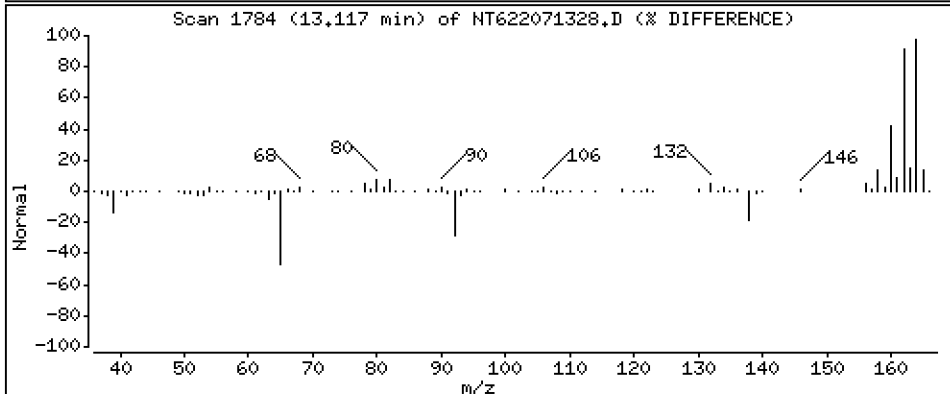
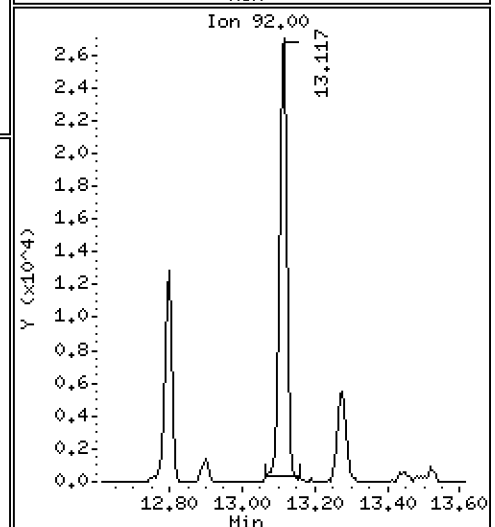
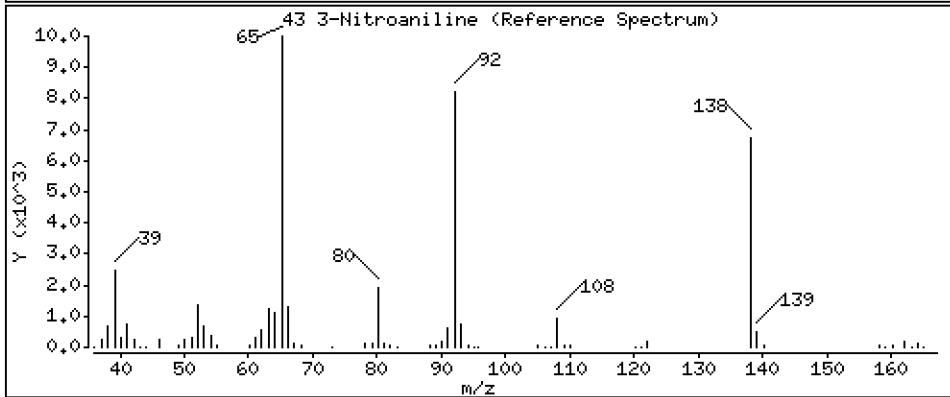
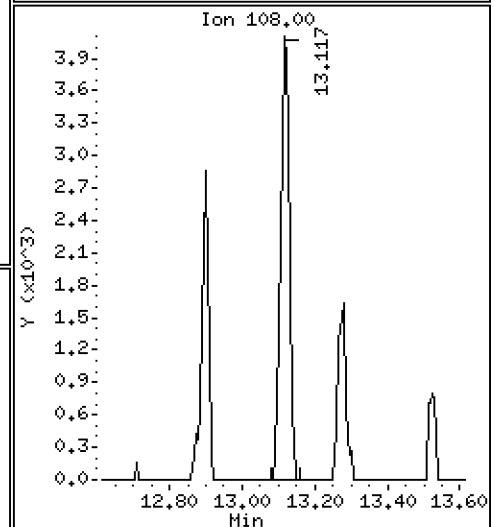
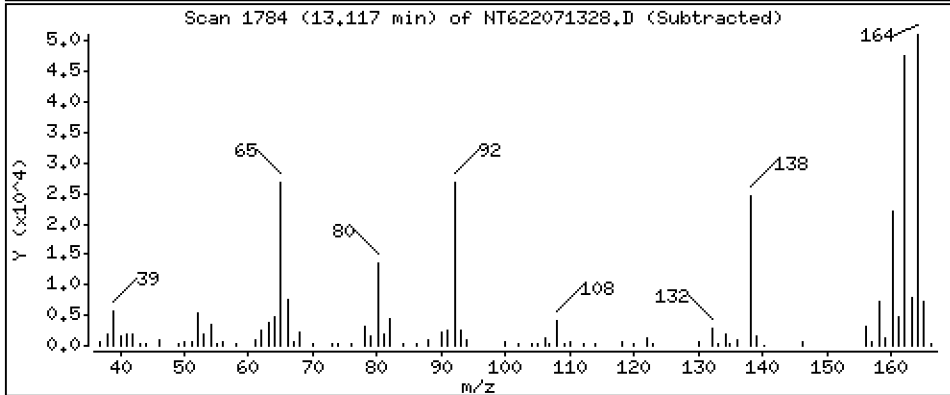
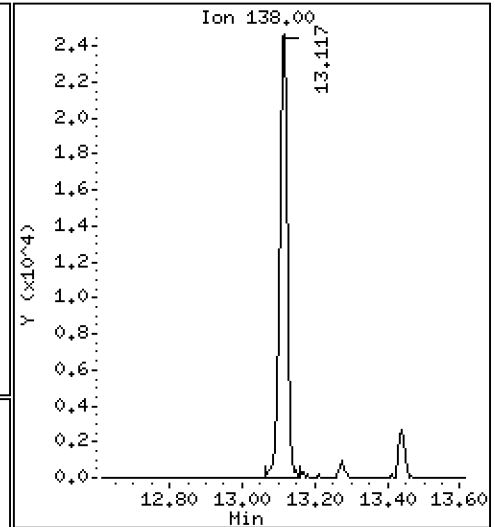
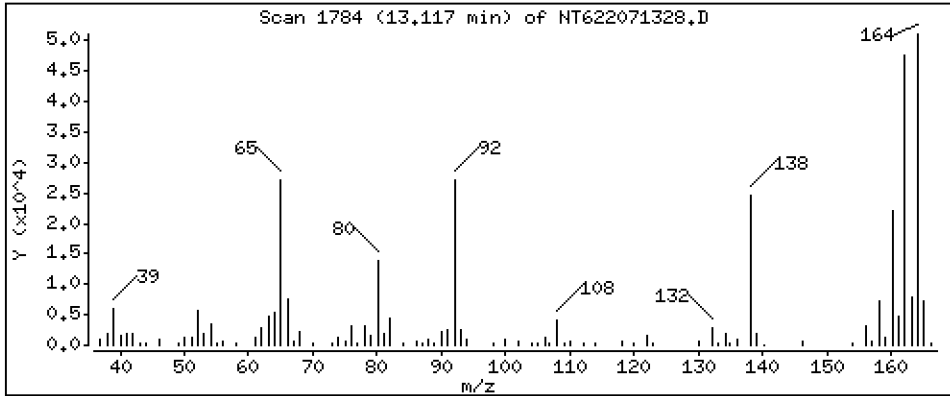
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

43 3-Nitroaniline

Concentration: 25.03 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

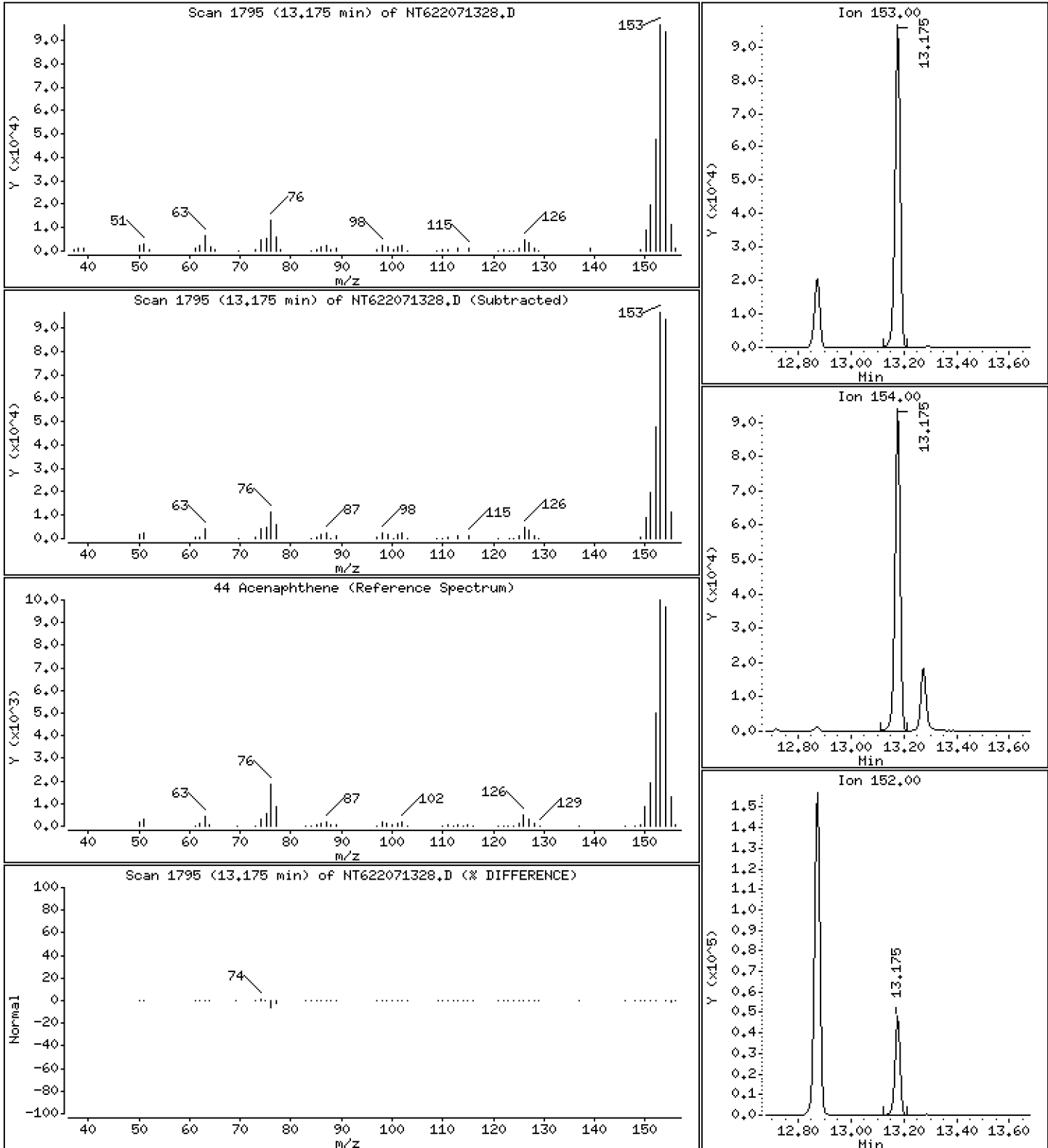
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

44 Acenaphthene

Concentration: 22.84 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

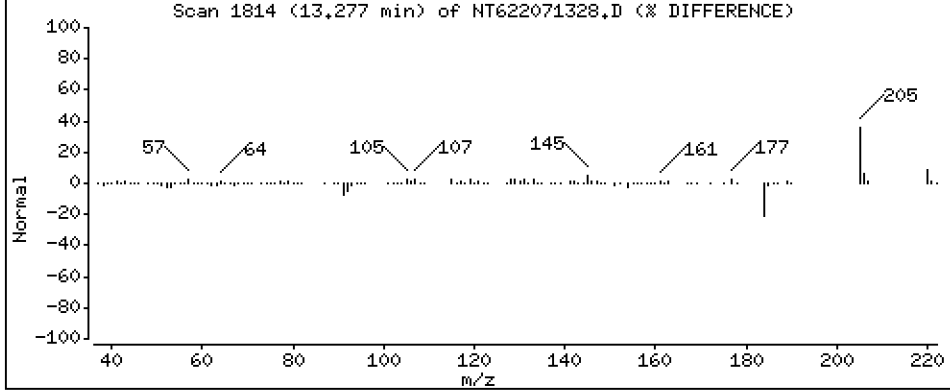
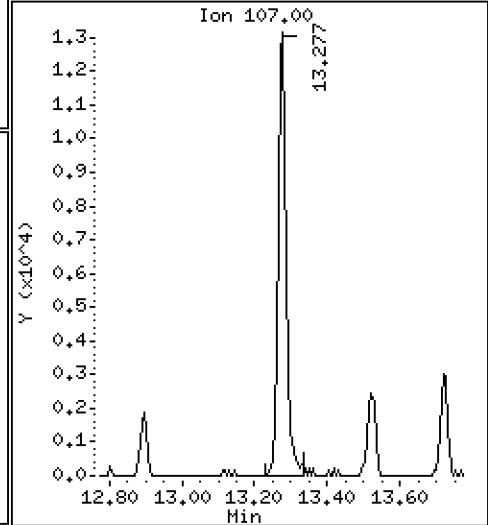
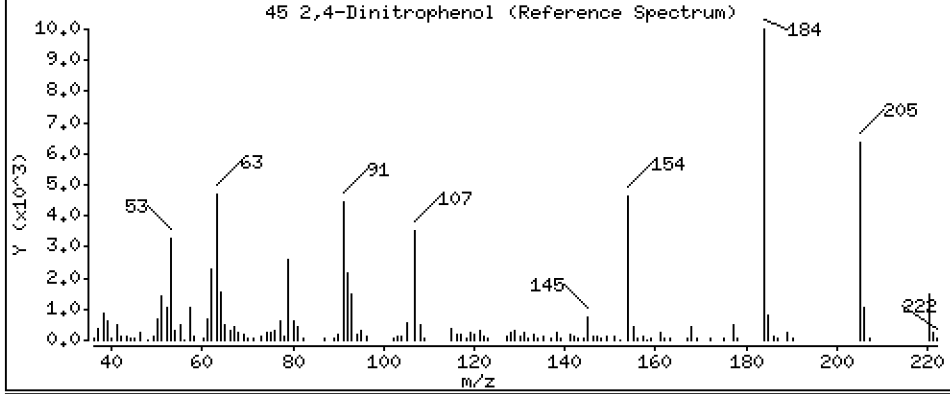
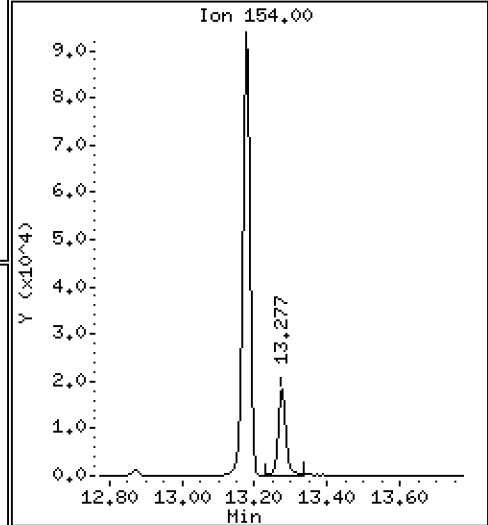
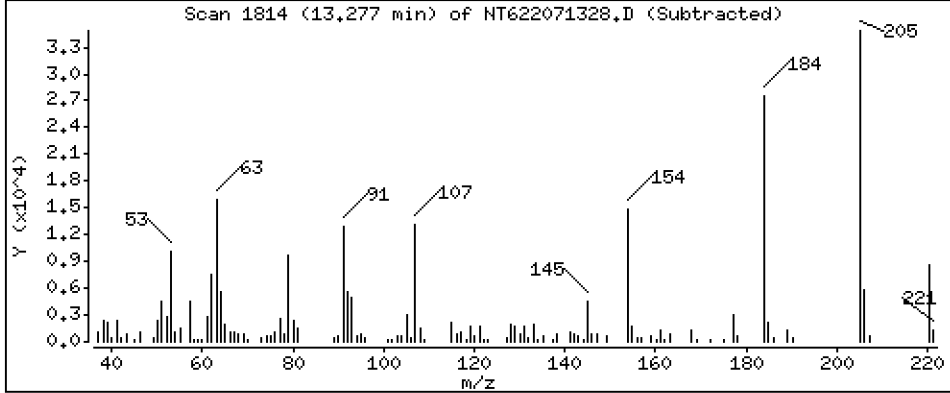
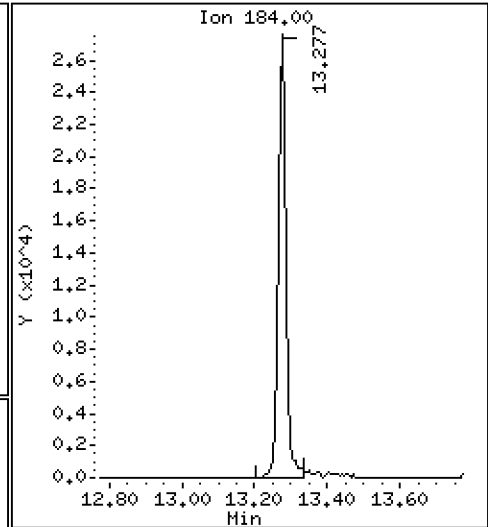
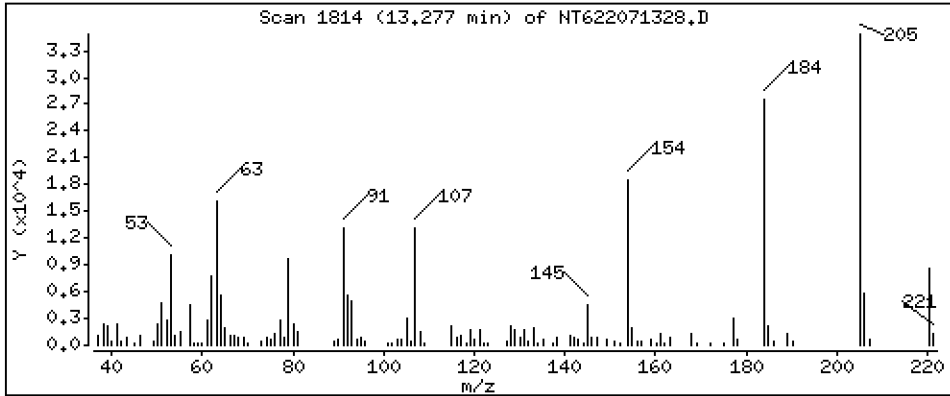
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

45 2,4-Dinitrophenol

Concentration: 44.90 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

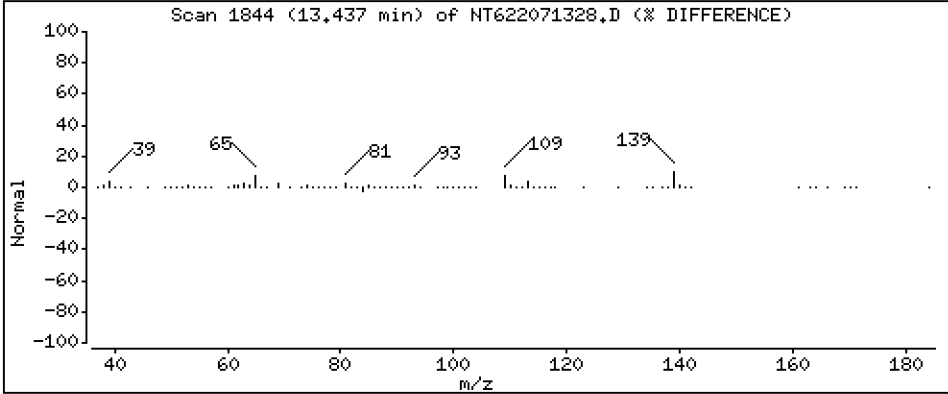
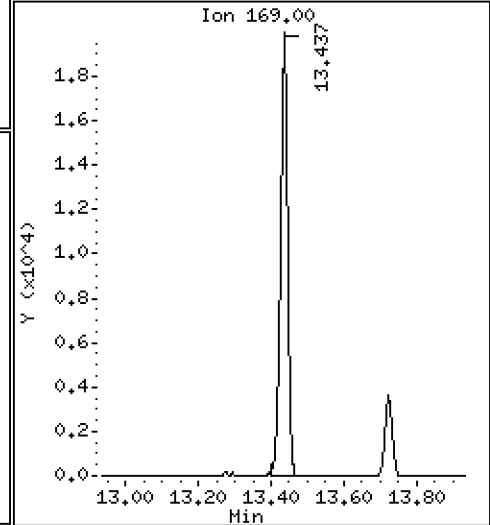
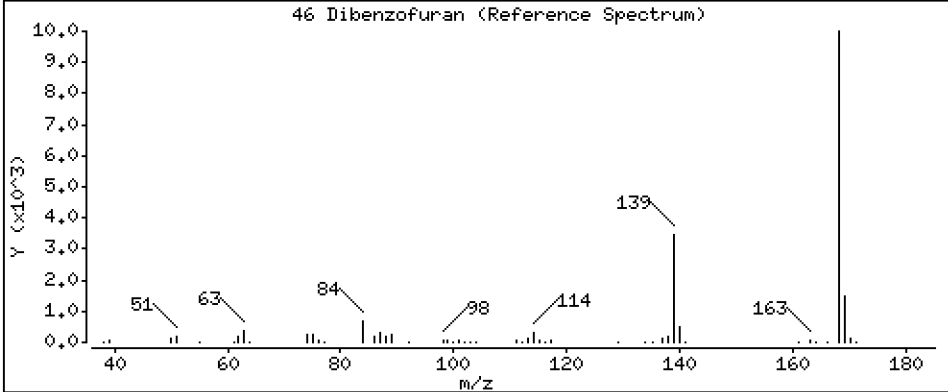
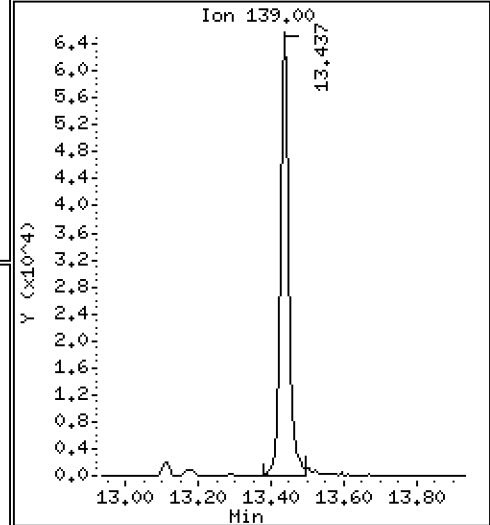
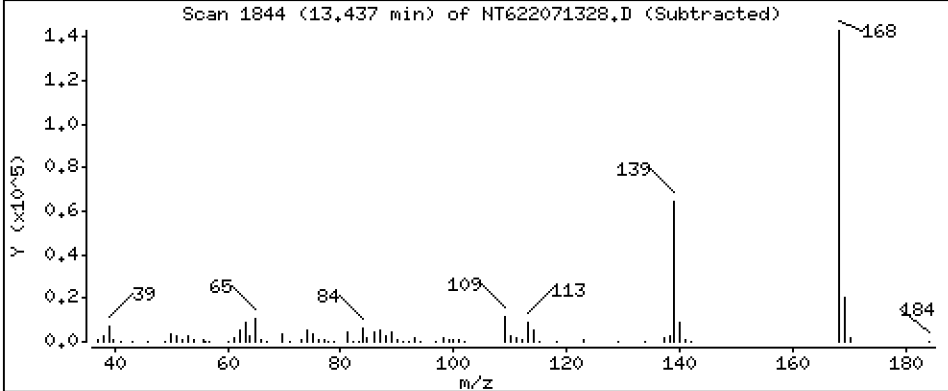
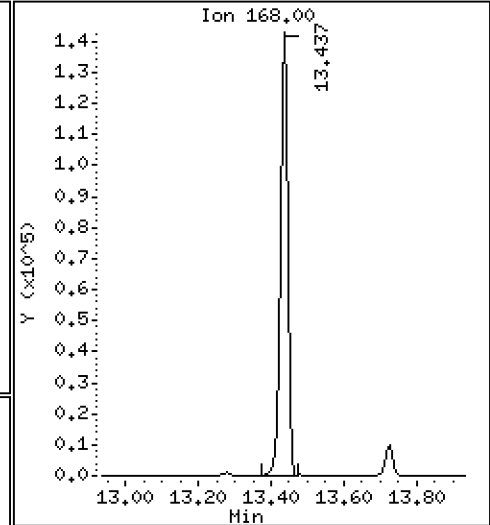
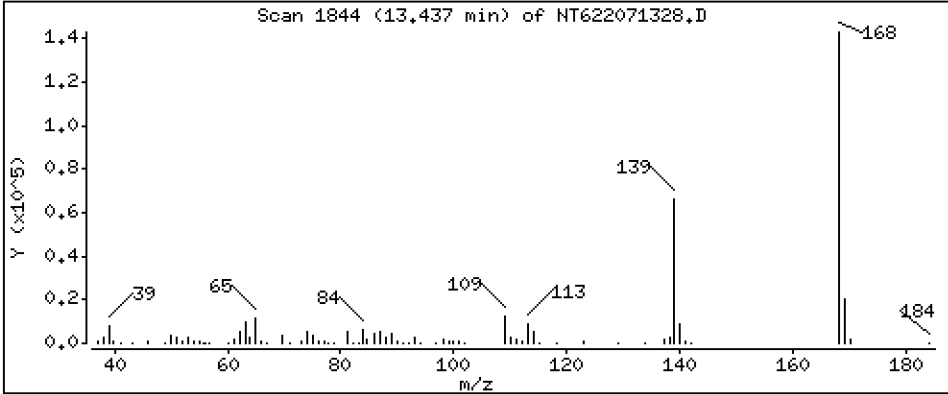
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

46 Dibenzofuran

Concentration: 24,15 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

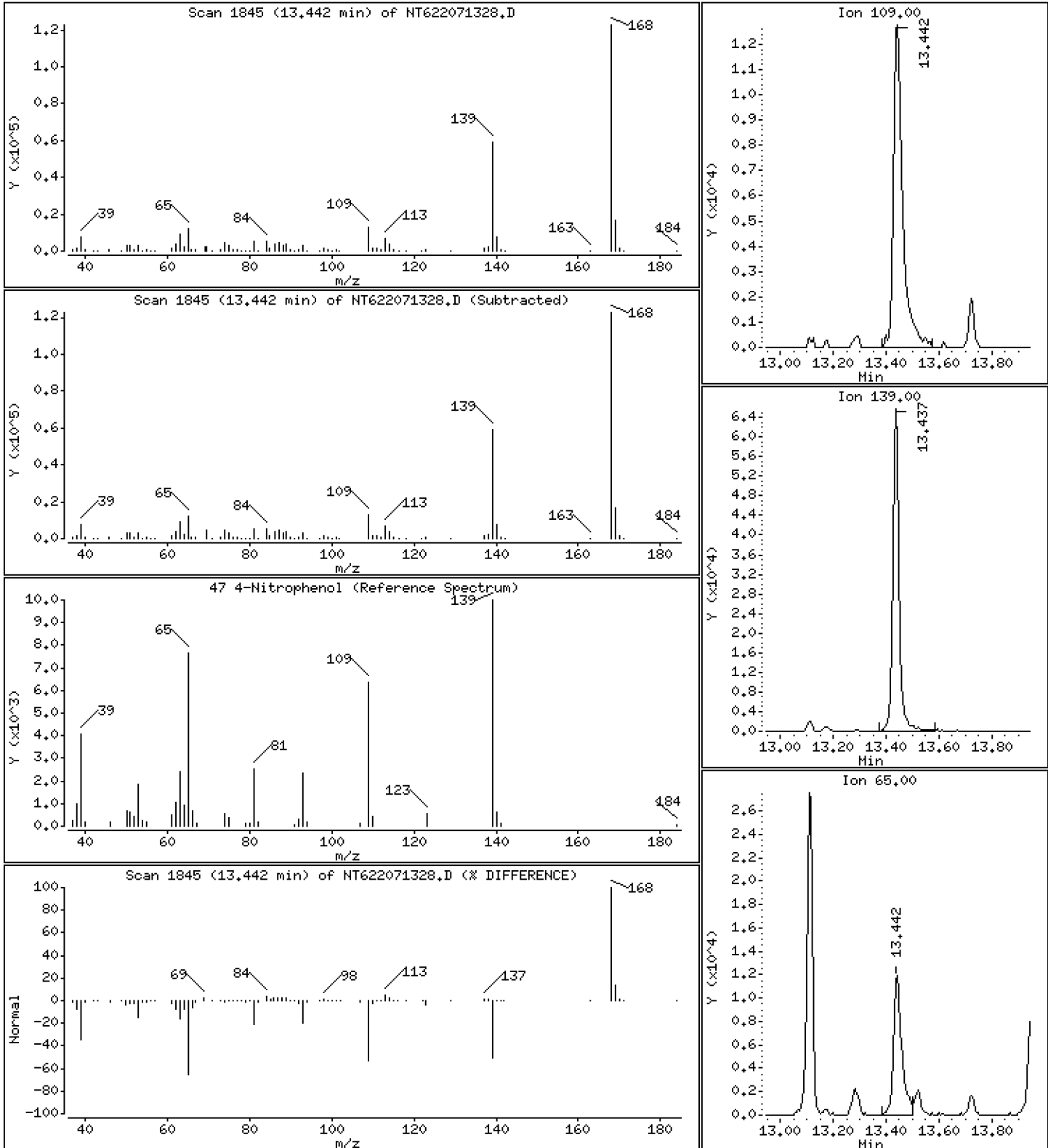
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

47 4-Nitrophenol

Concentration: 29.72 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

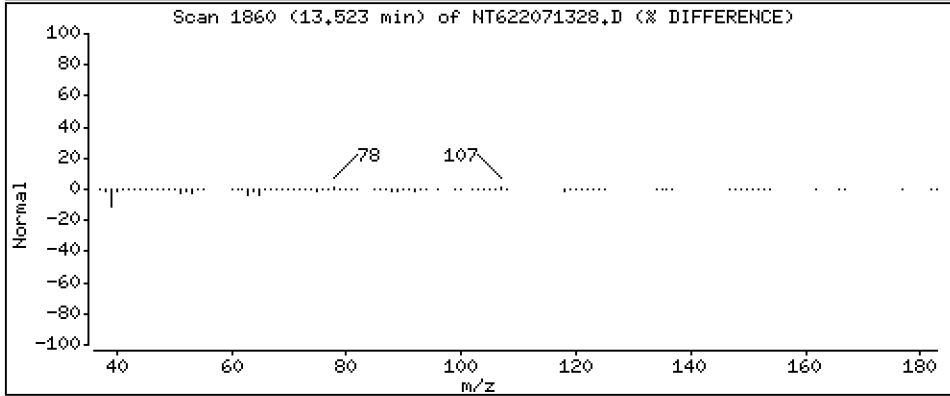
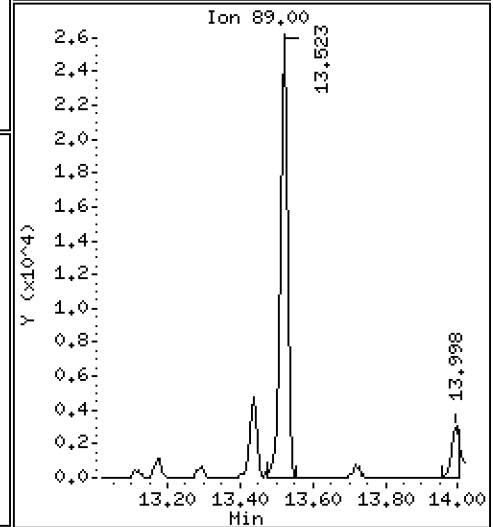
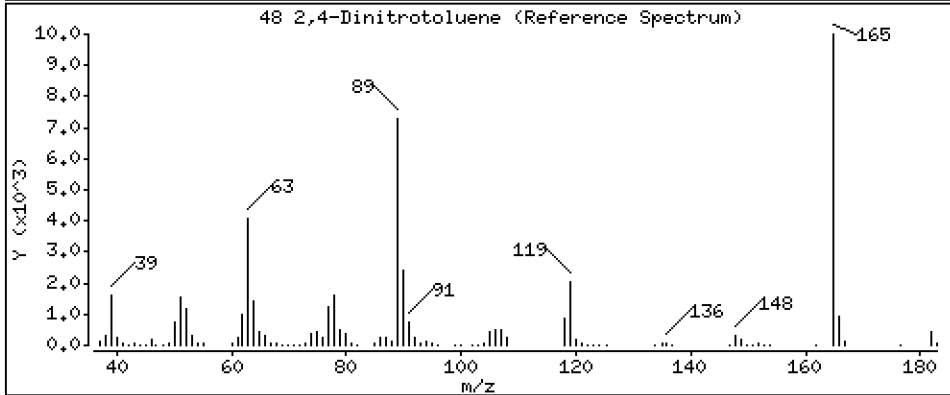
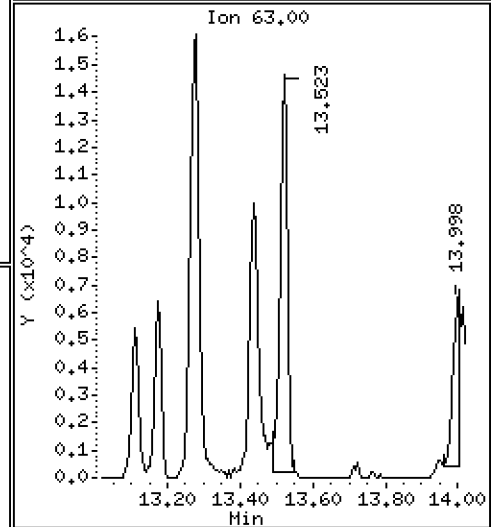
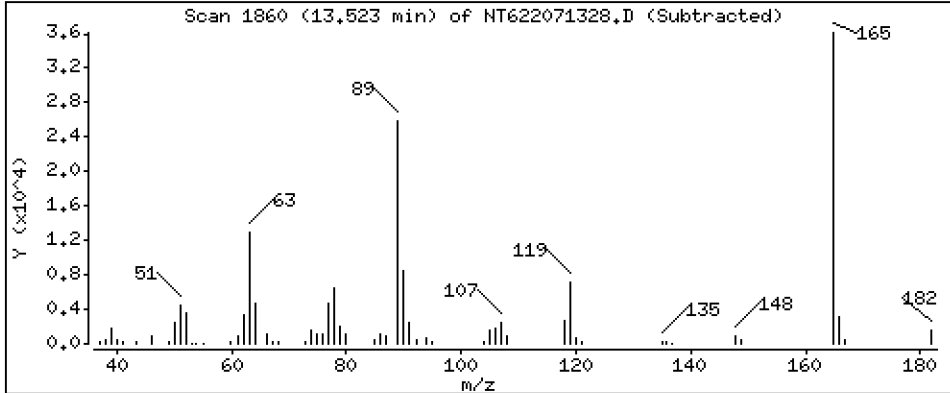
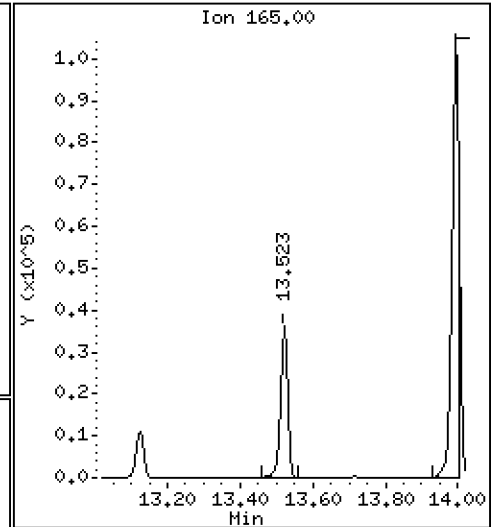
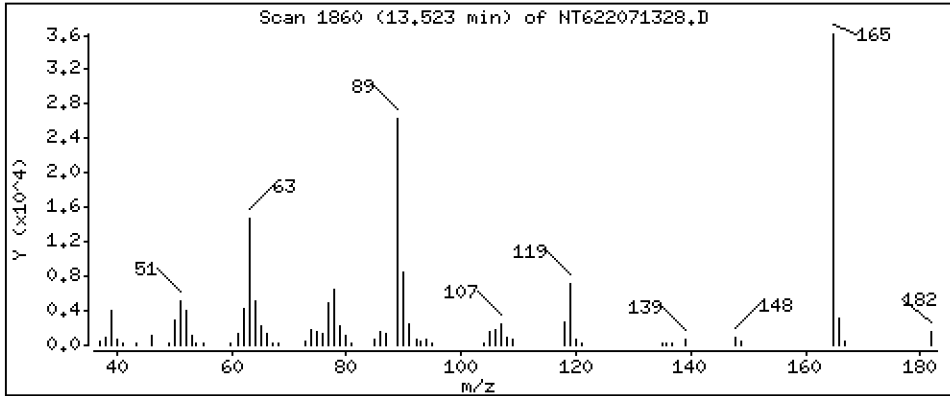
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

48 2,4-Dinitrotoluene

Concentration: 25.98 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

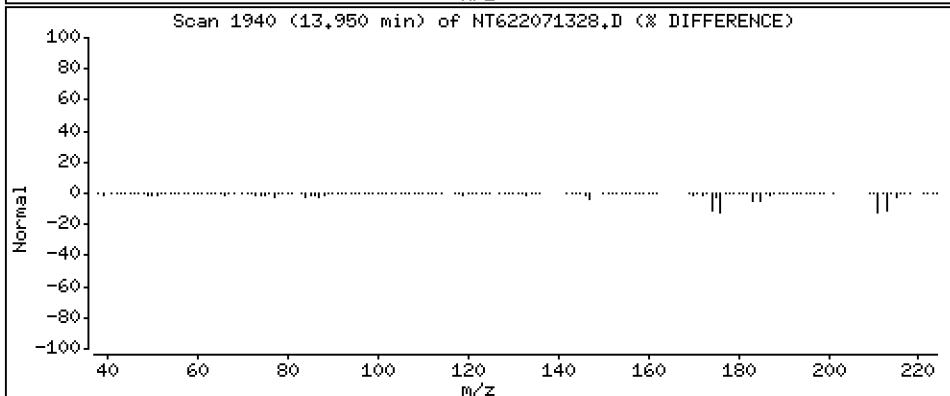
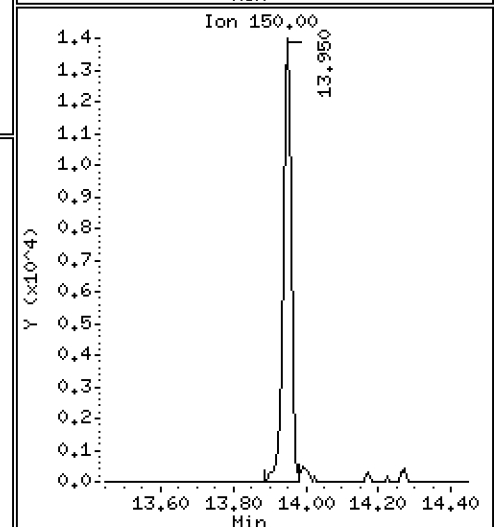
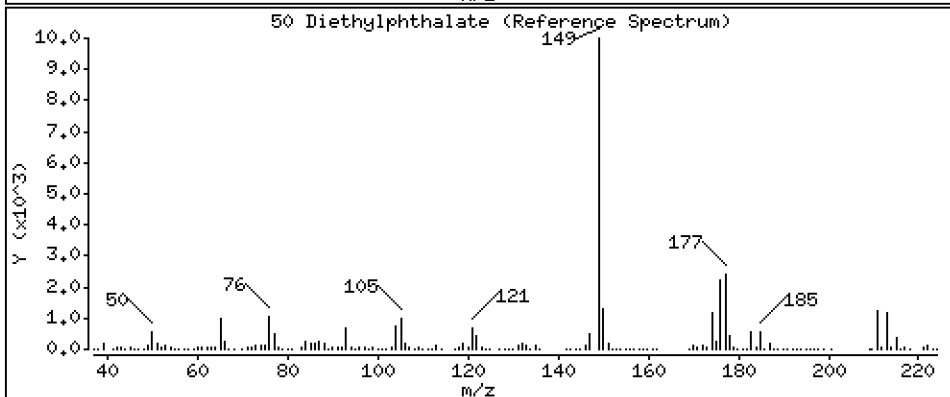
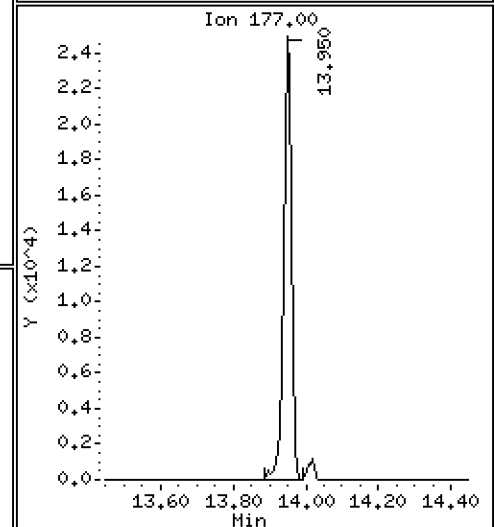
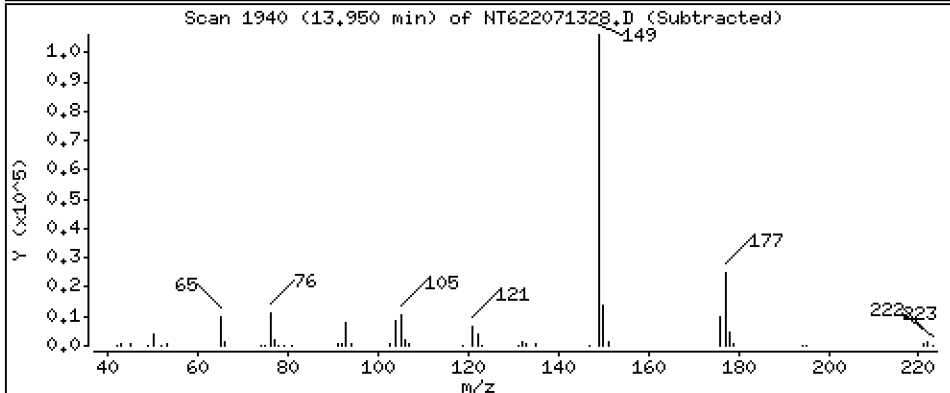
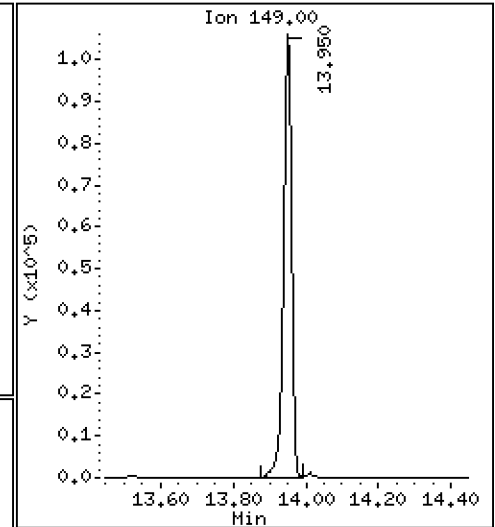
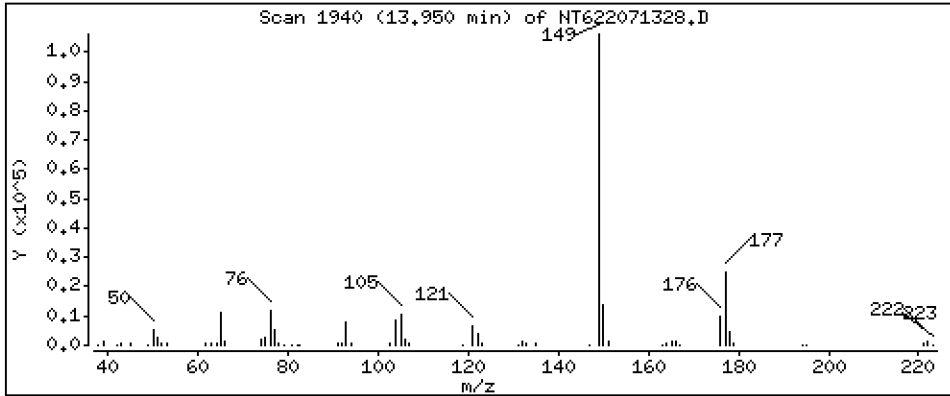
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

50 Diethylphthalate

Concentration: 25.92 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

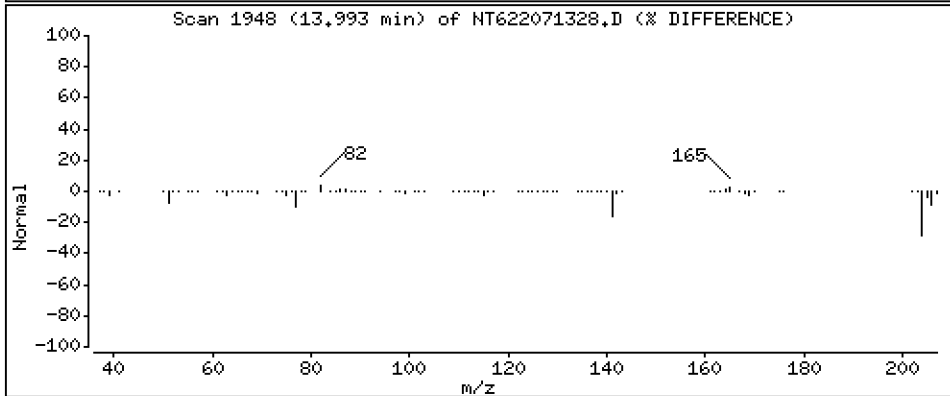
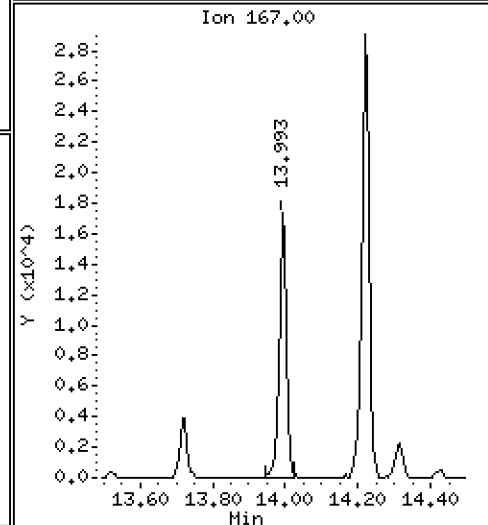
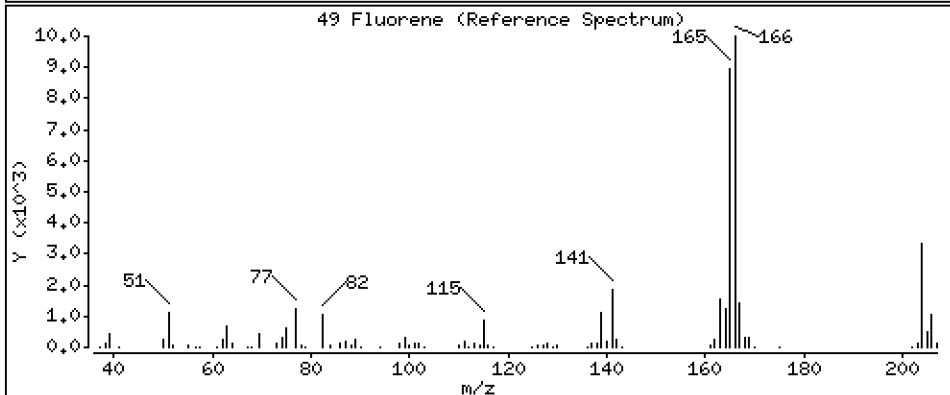
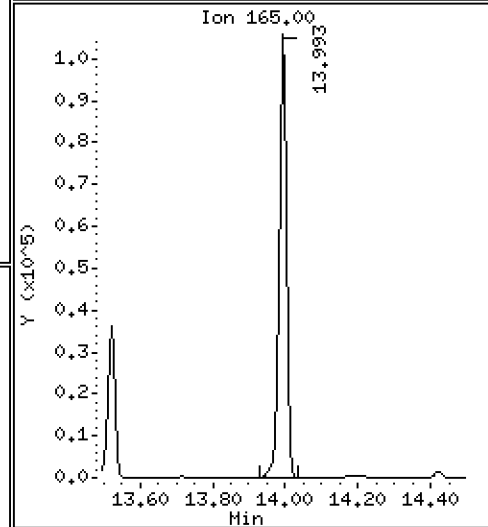
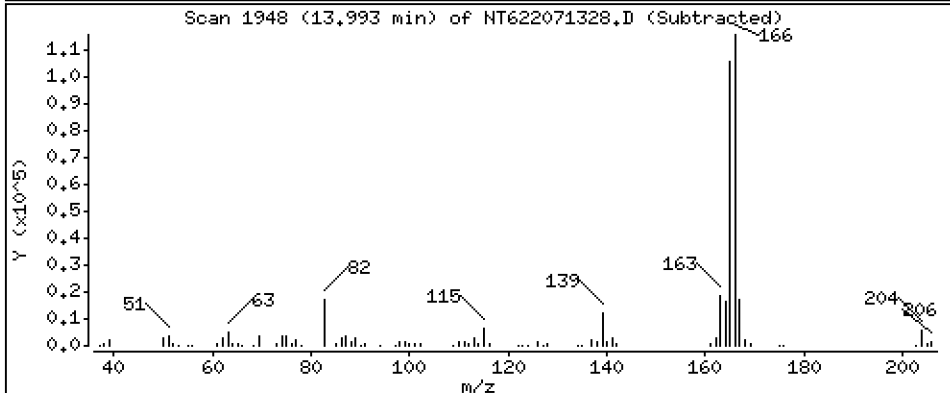
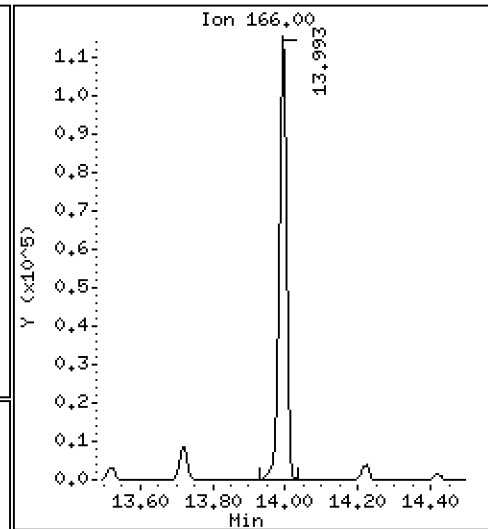
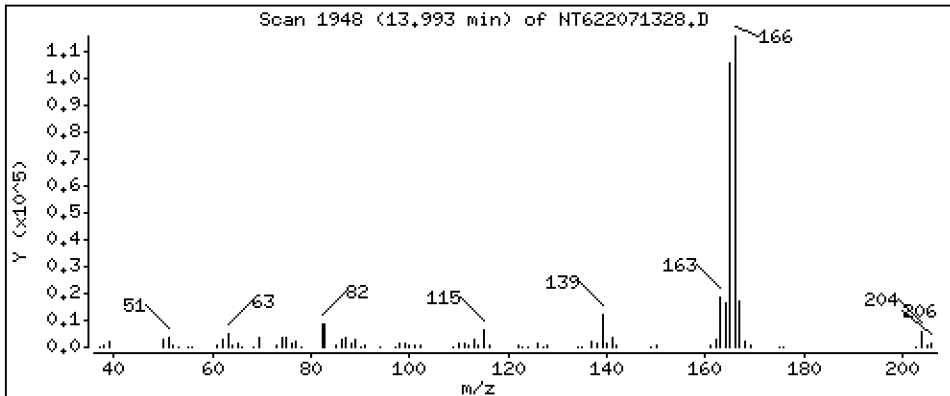
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

49 Fluorene

Concentration: 24.28 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

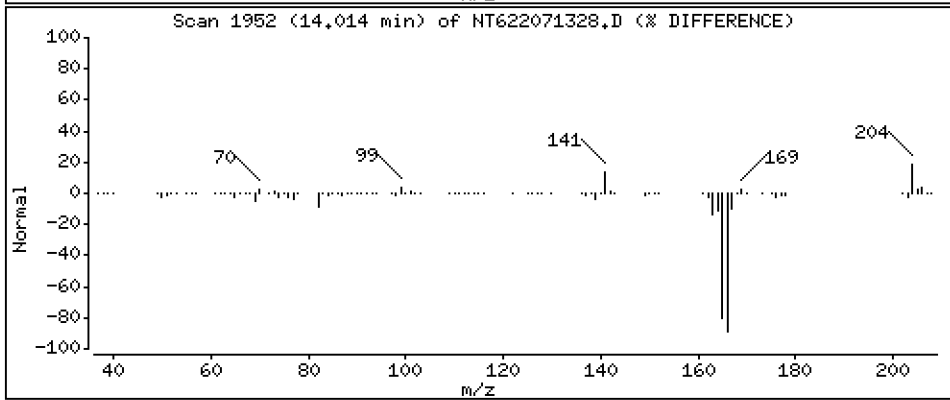
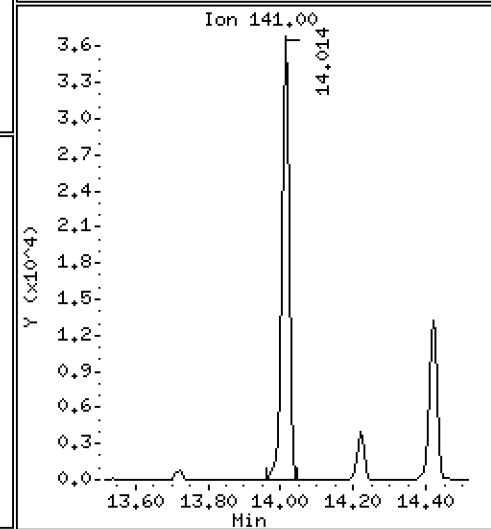
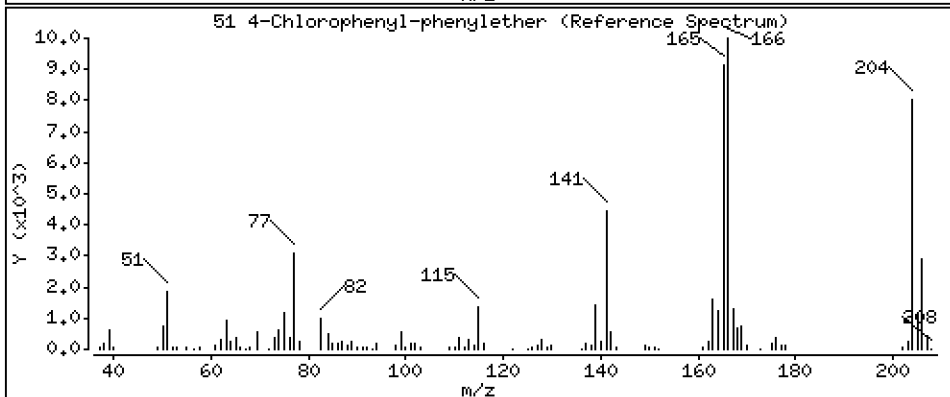
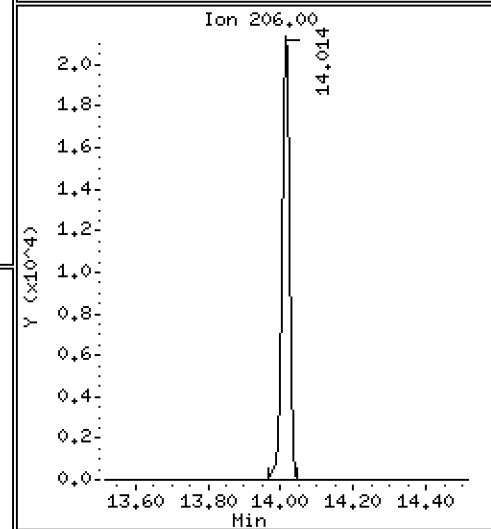
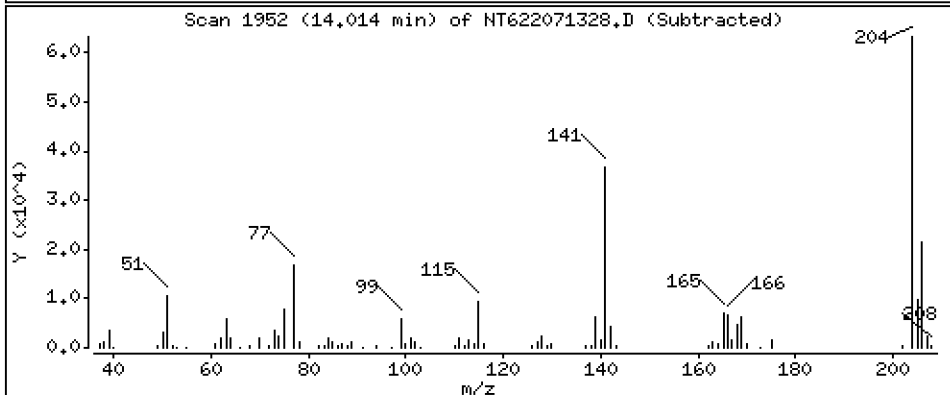
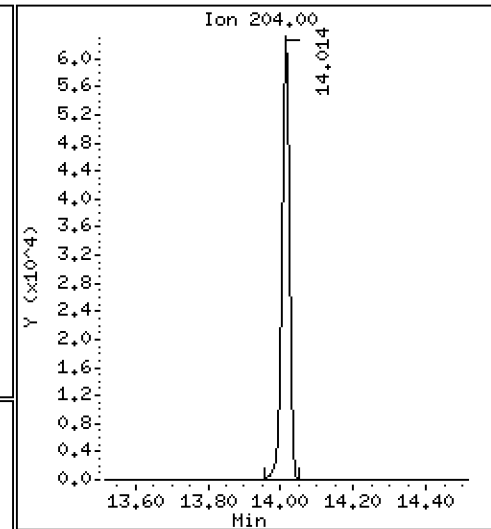
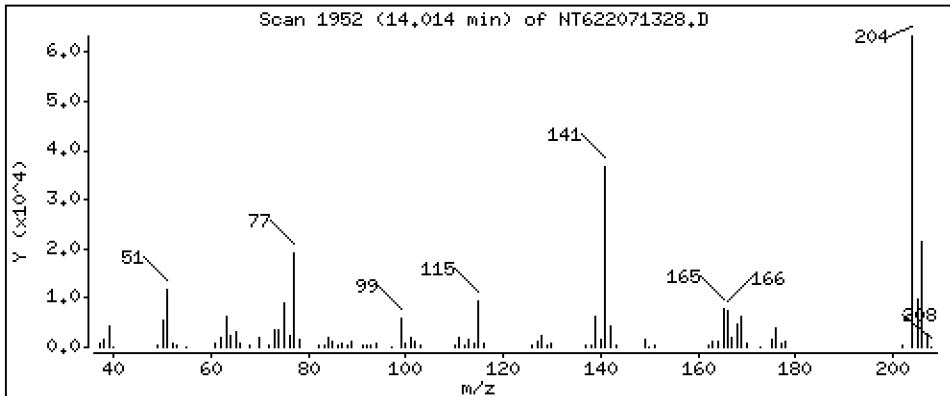
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

51 4-Chlorophenyl-phenylether

Concentration: 24.22 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

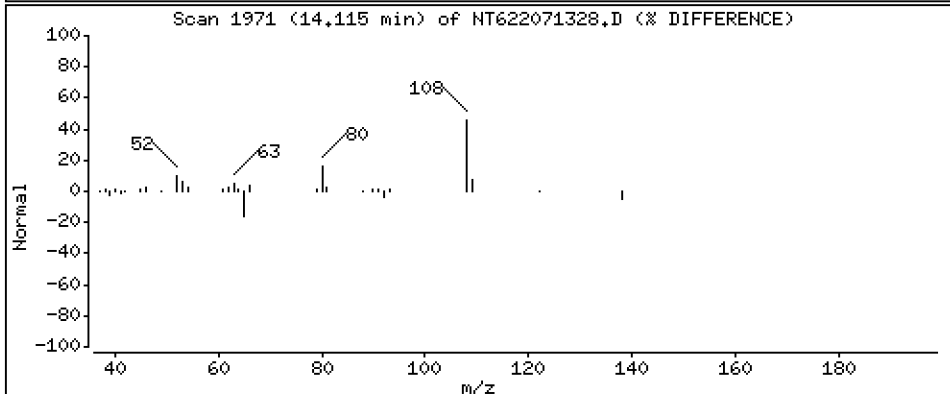
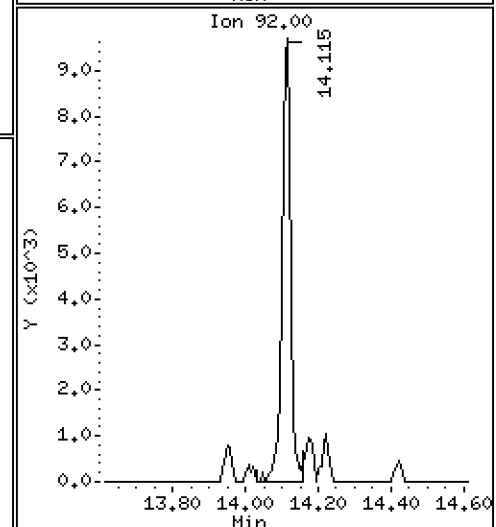
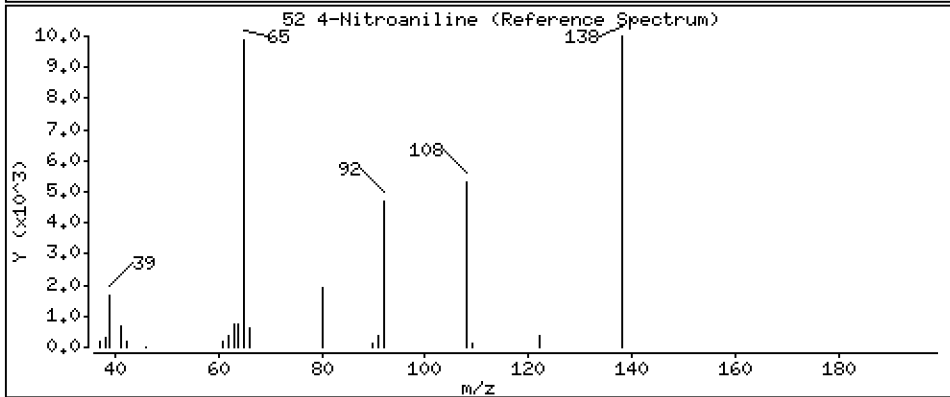
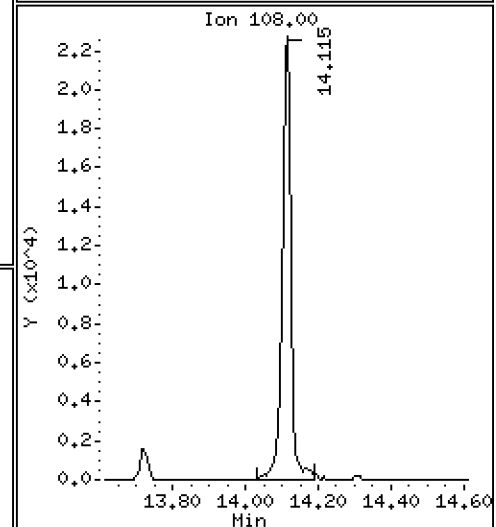
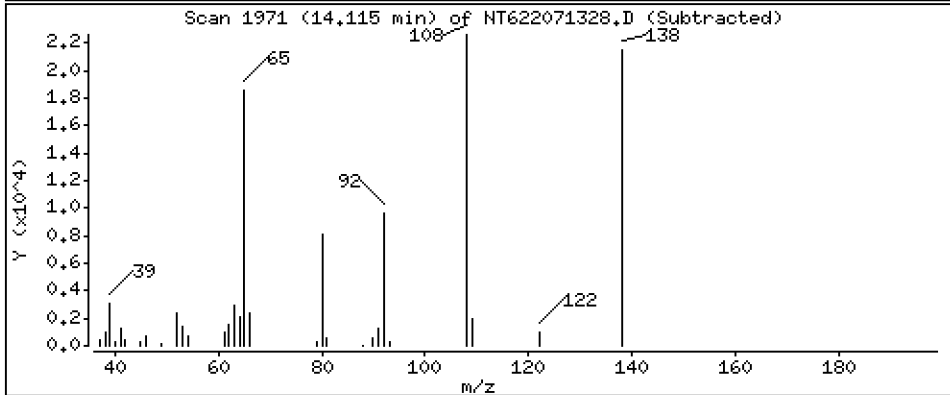
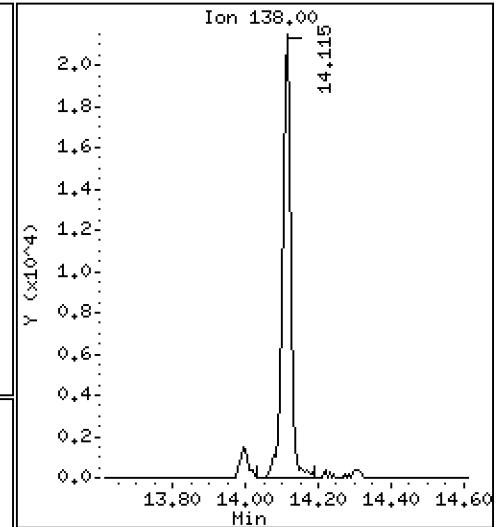
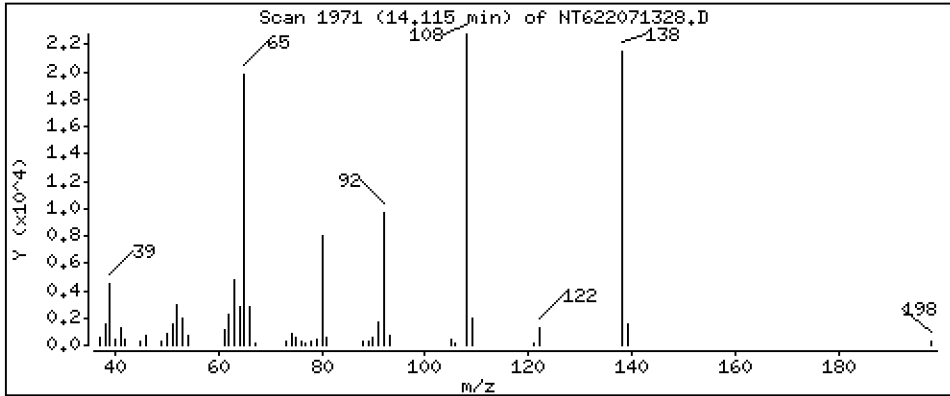
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

52 4-Nitroaniline

Concentration: 25.71 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

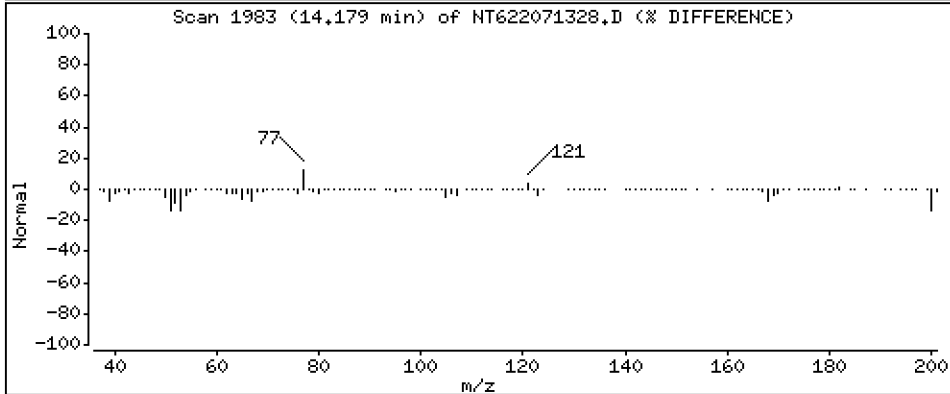
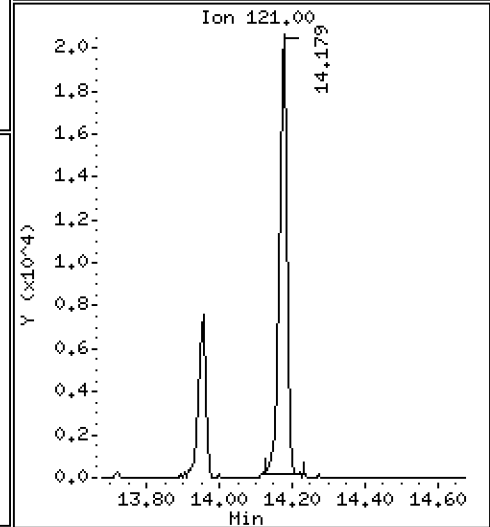
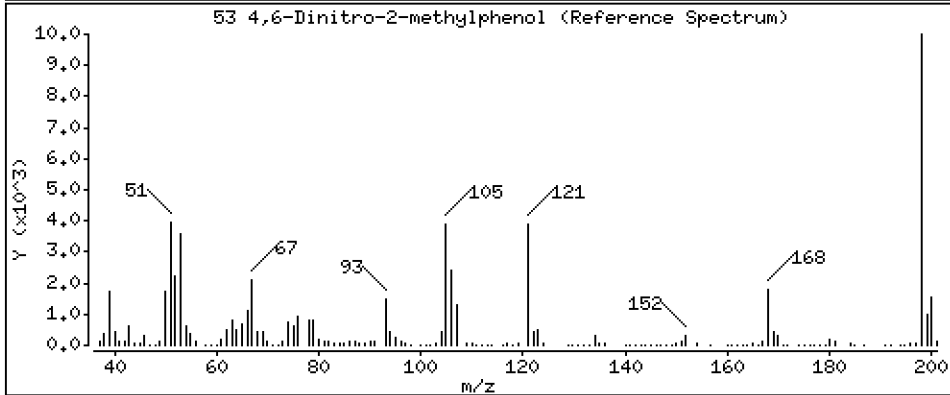
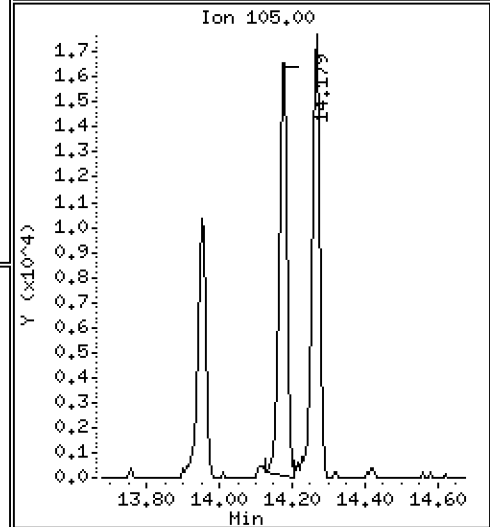
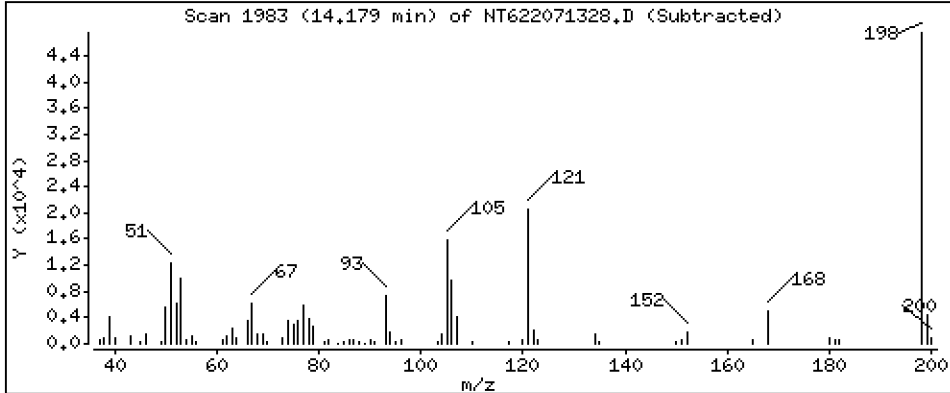
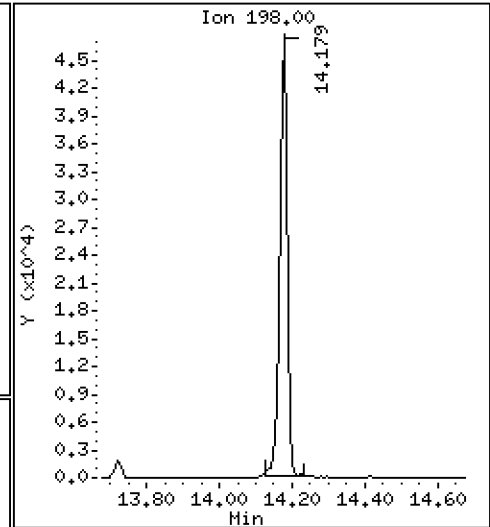
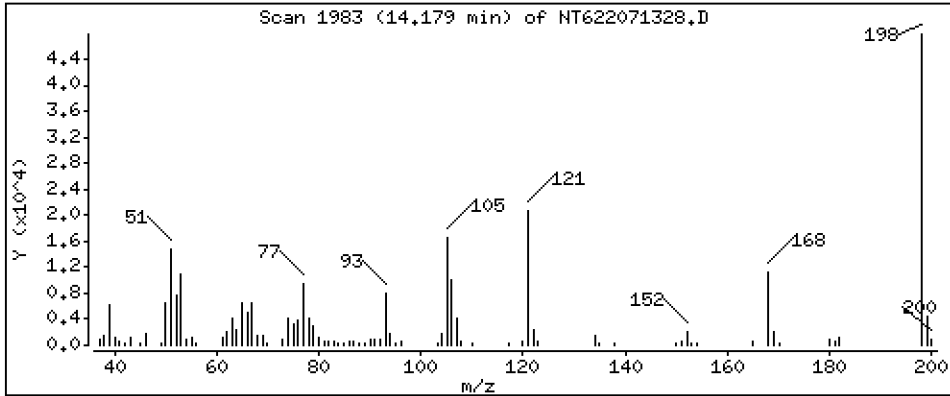
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

53 4,6-Dinitro-2-methylphenol

Concentration: 50.88 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

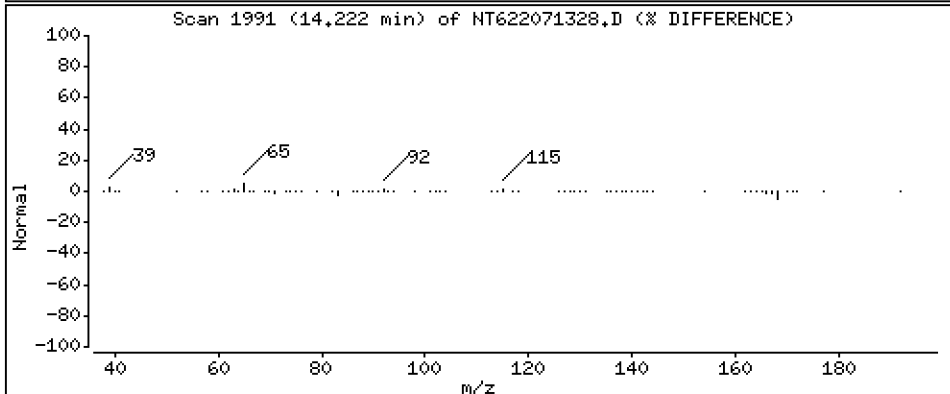
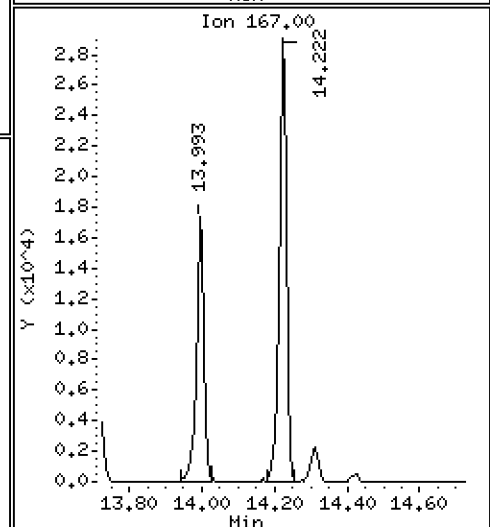
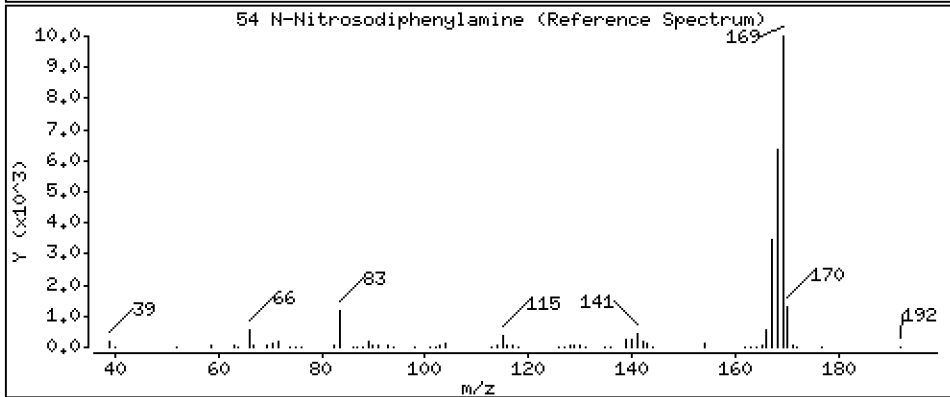
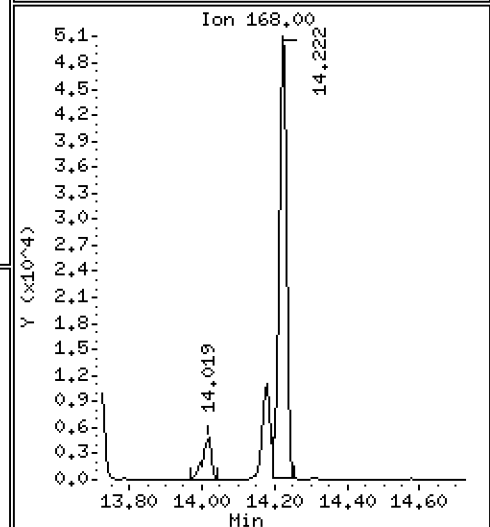
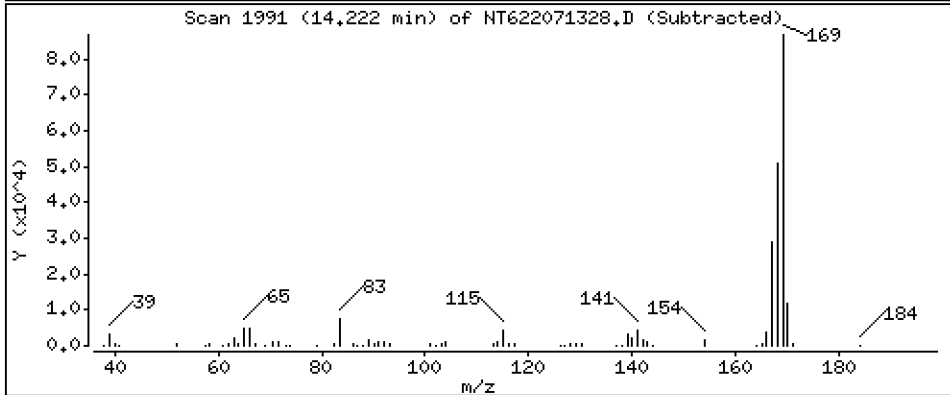
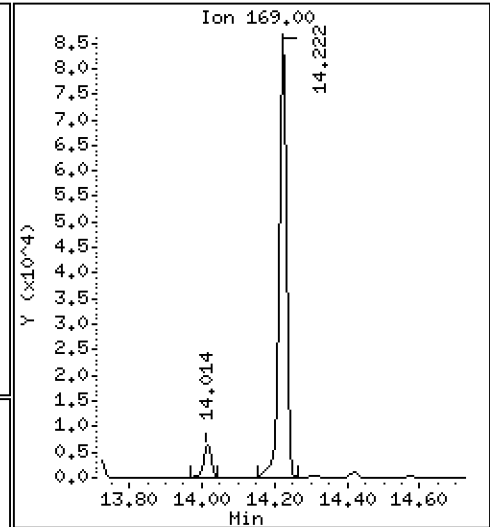
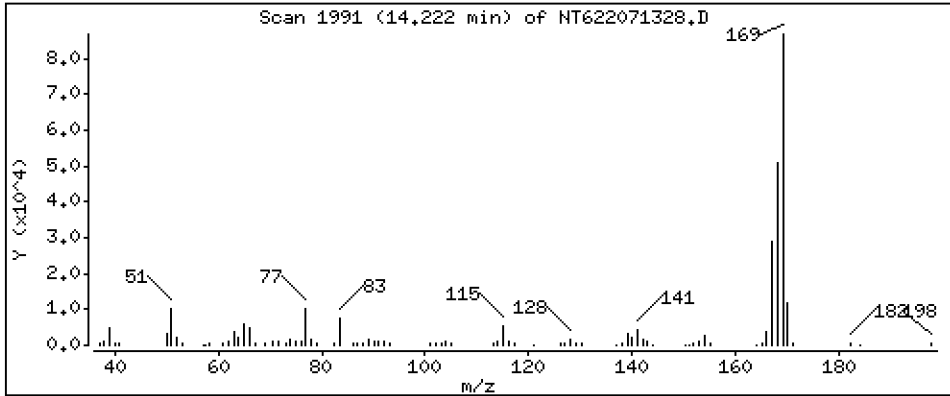
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

54 N-Nitrosodiphenylamine

Concentration: 23.09 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

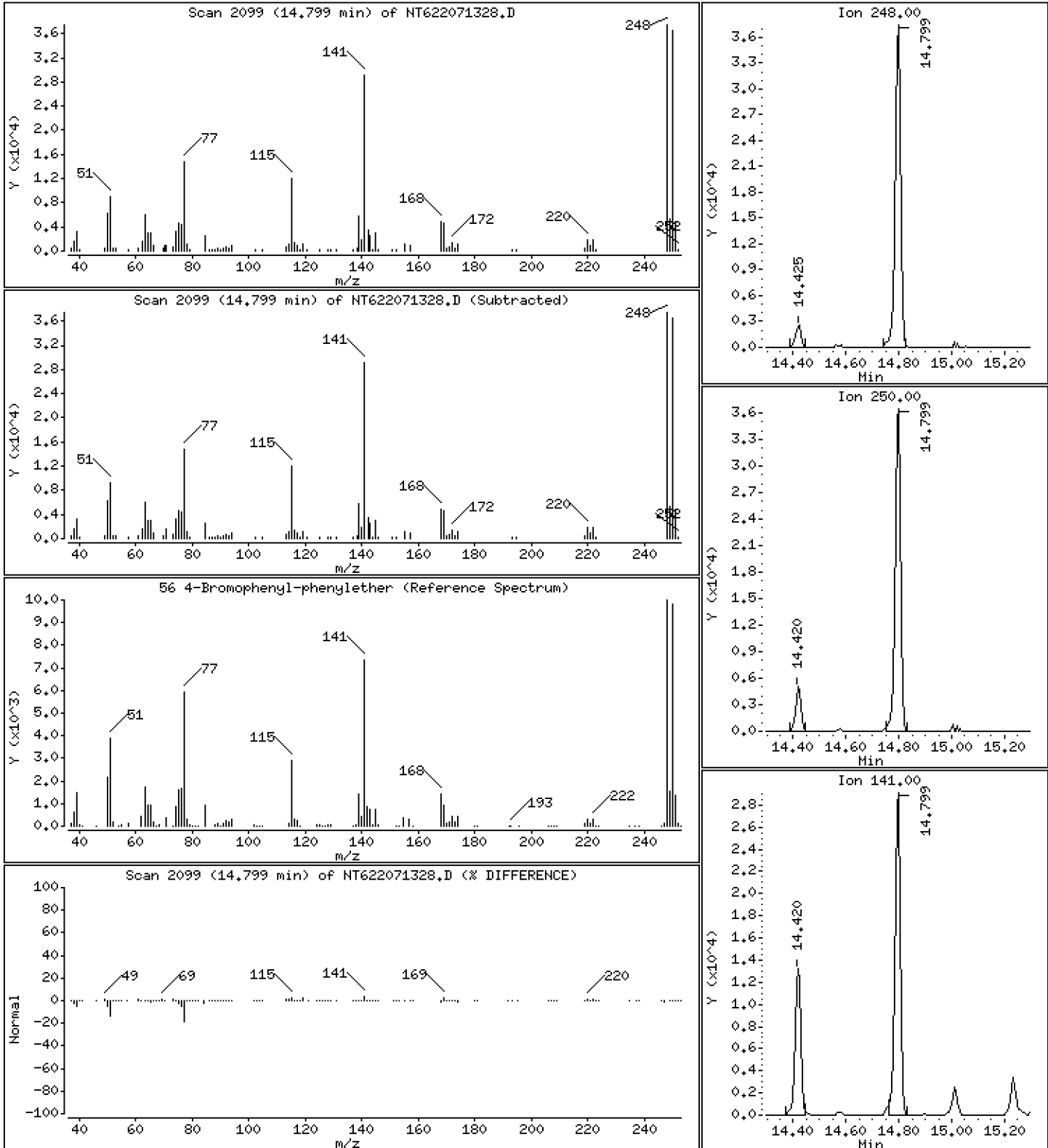
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

56 4-Bromophenyl-phenylether

Concentration: 23.48 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

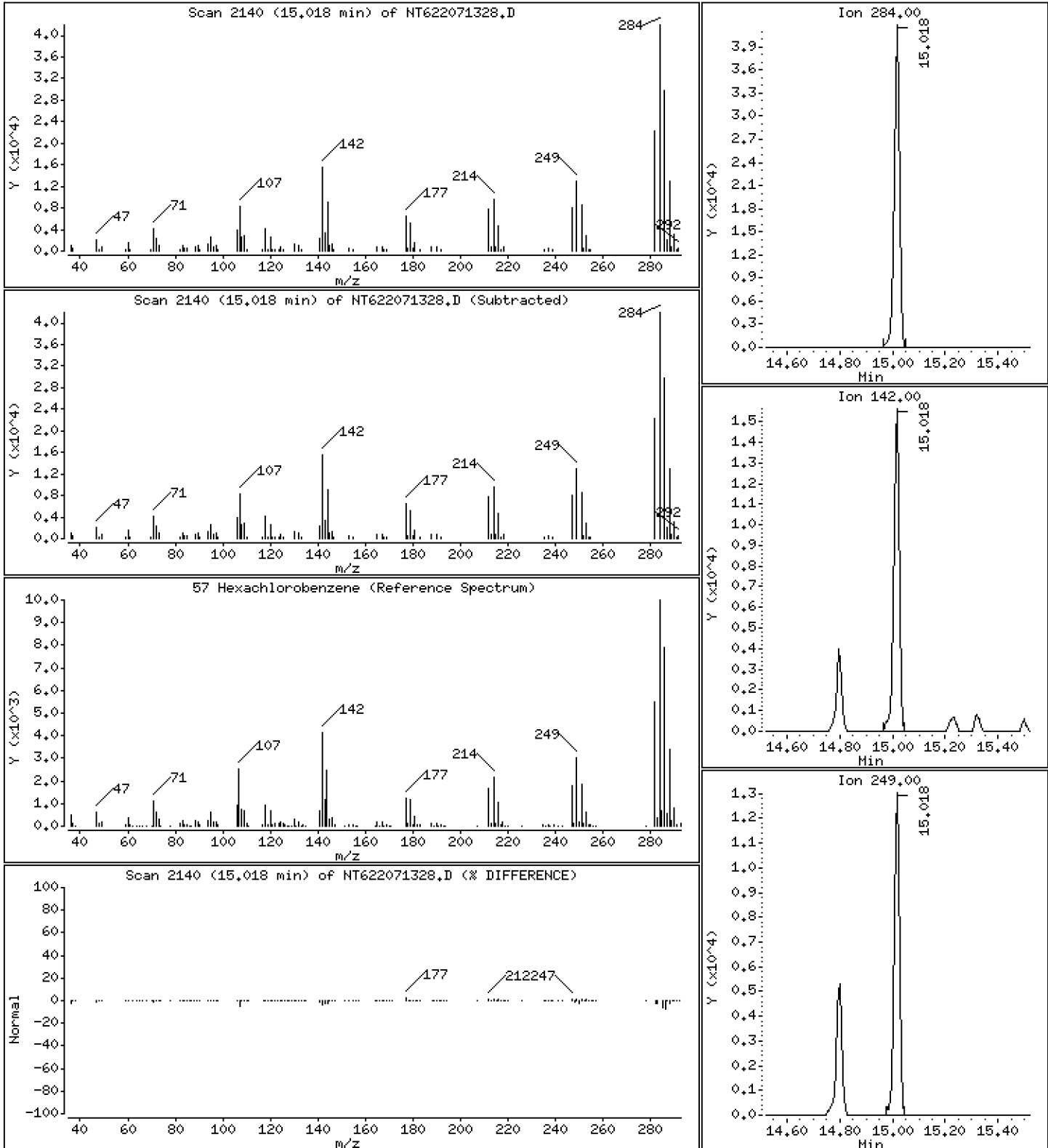
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

57 Hexachlorobenzene

Concentration: 23,18 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

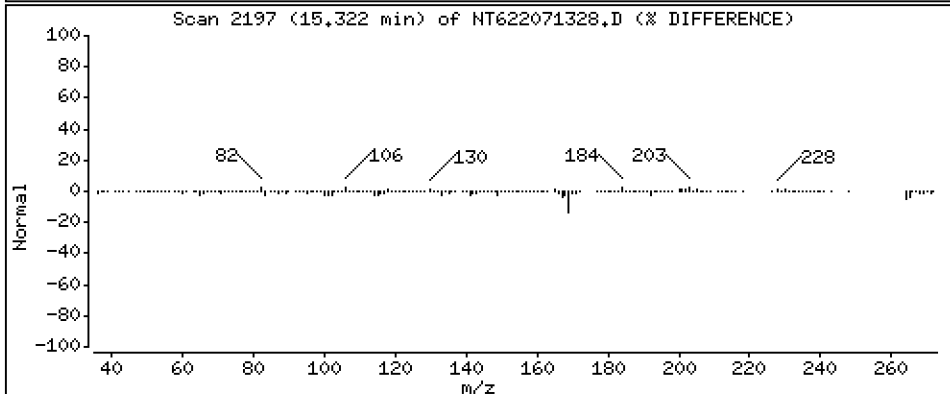
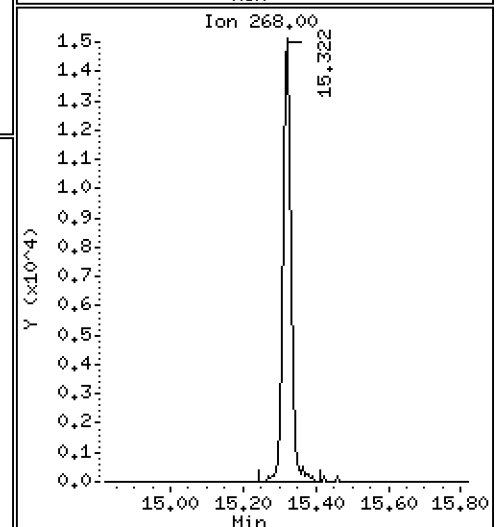
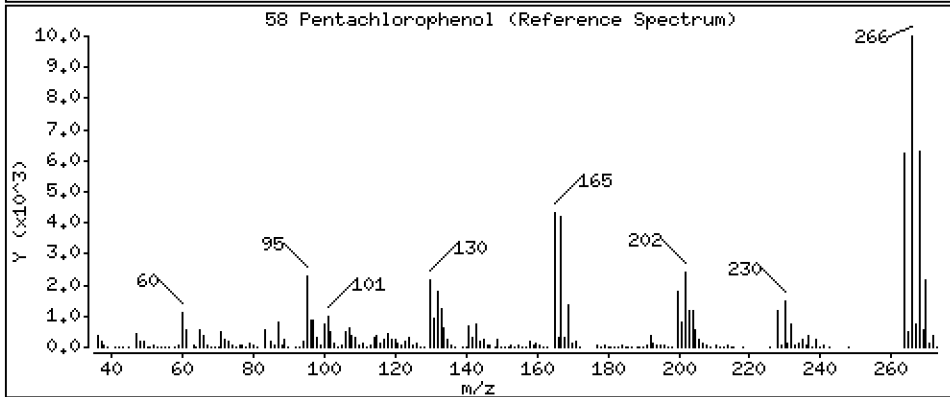
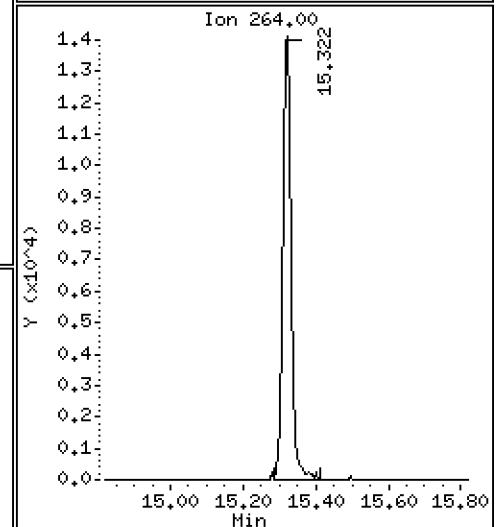
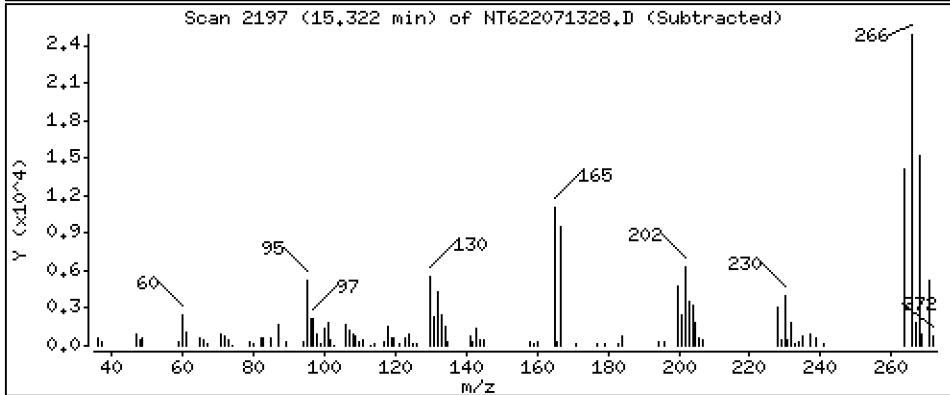
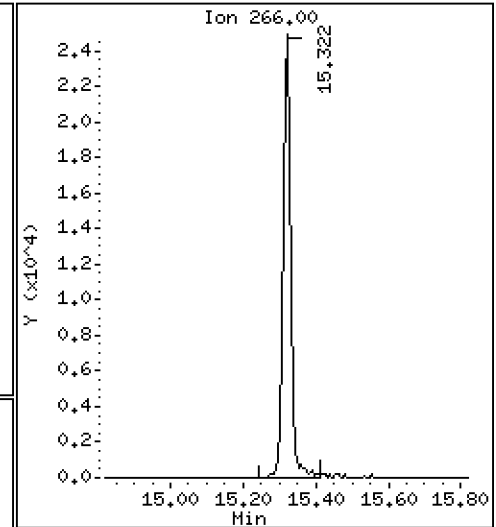
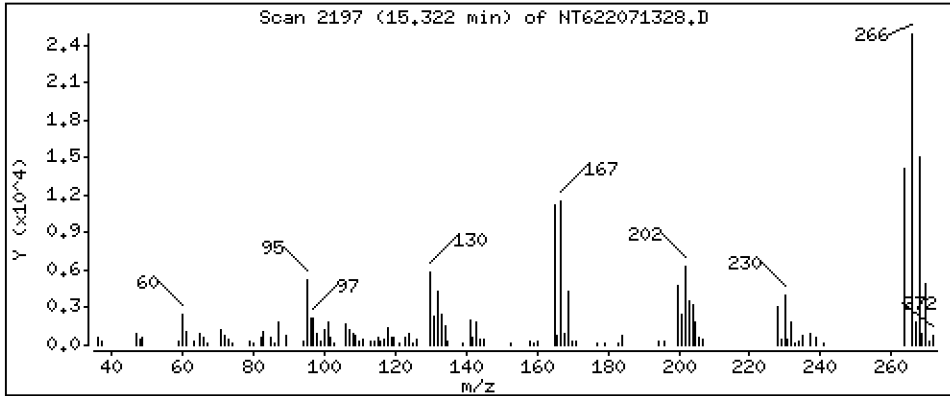
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

58 Pentachlorophenol

Concentration: 22.01 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

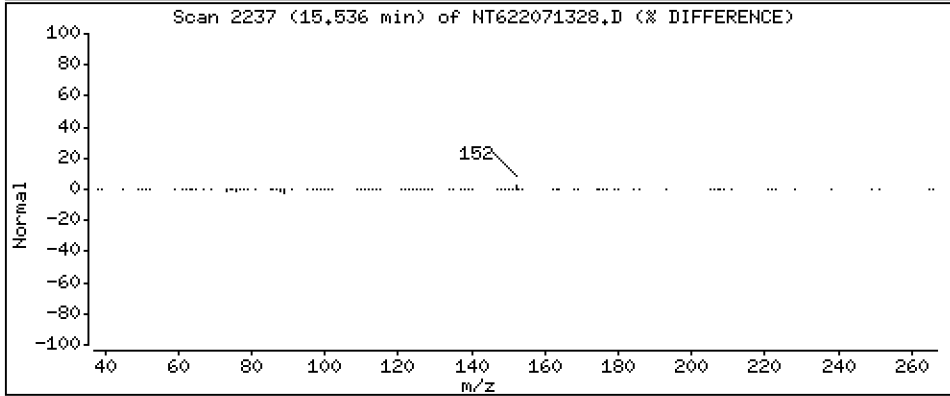
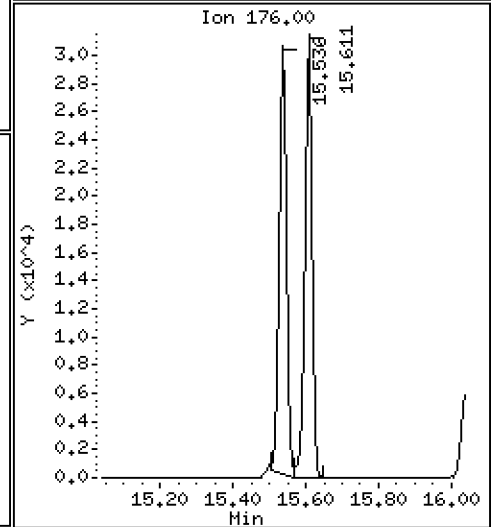
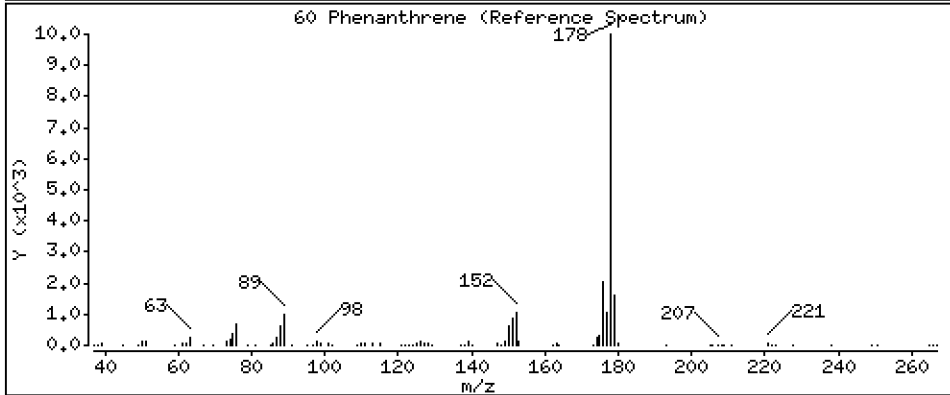
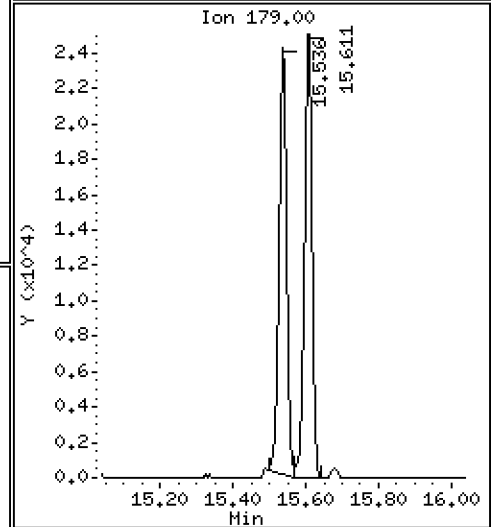
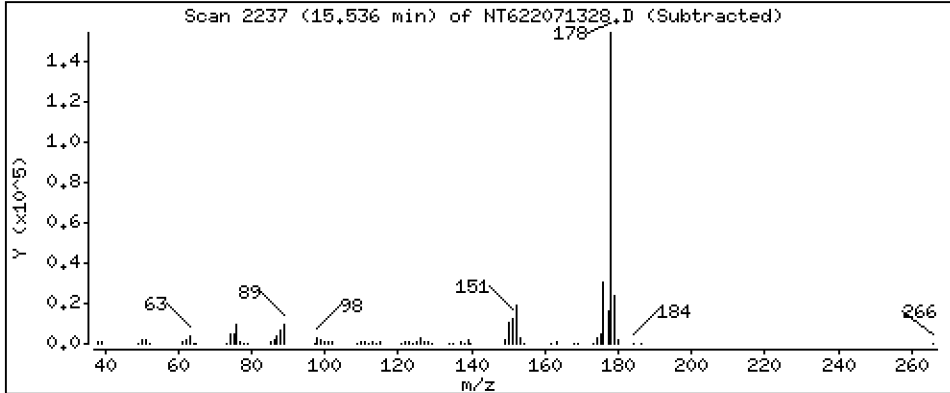
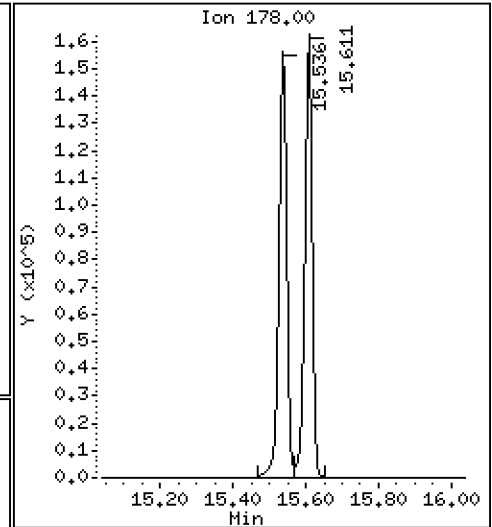
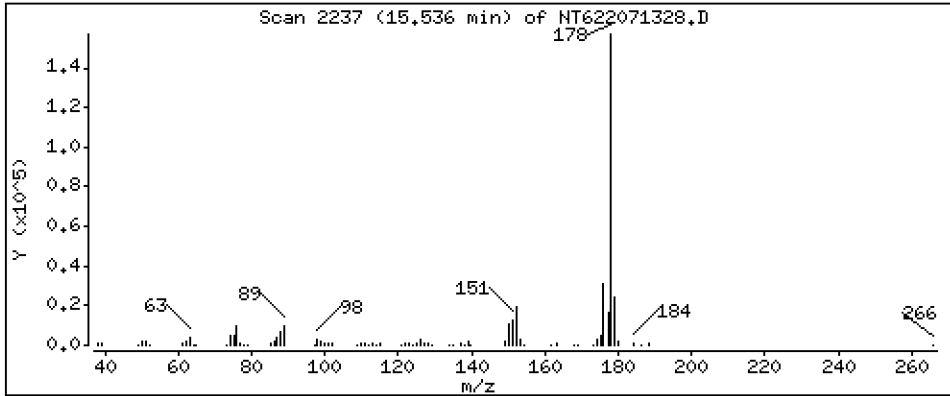
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

60 Phenanthrene

Concentration: 23.60 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

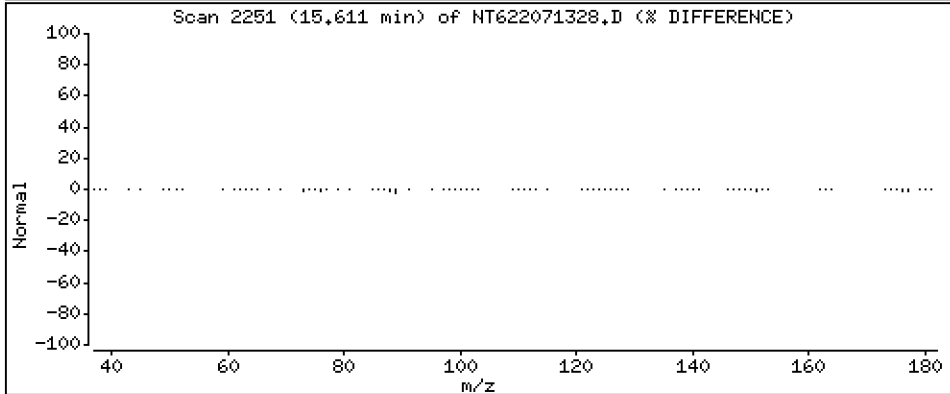
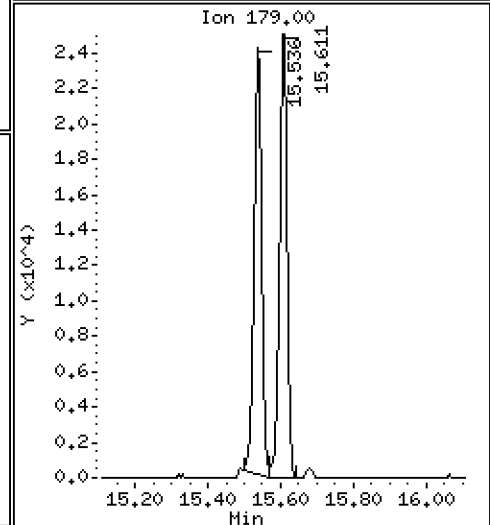
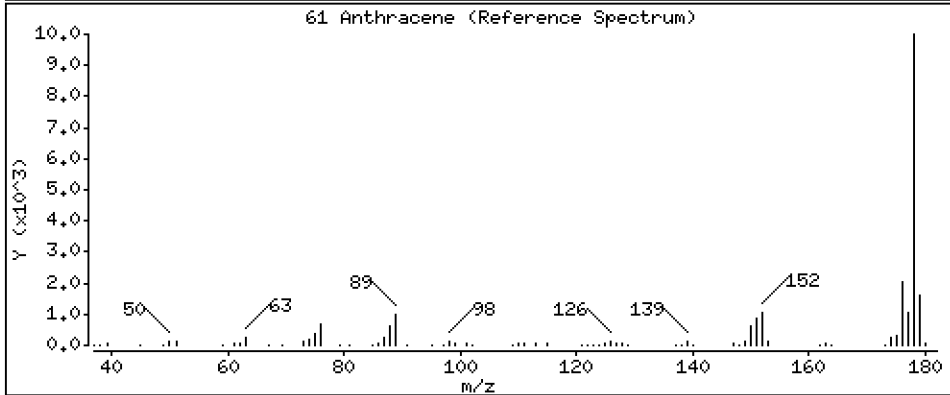
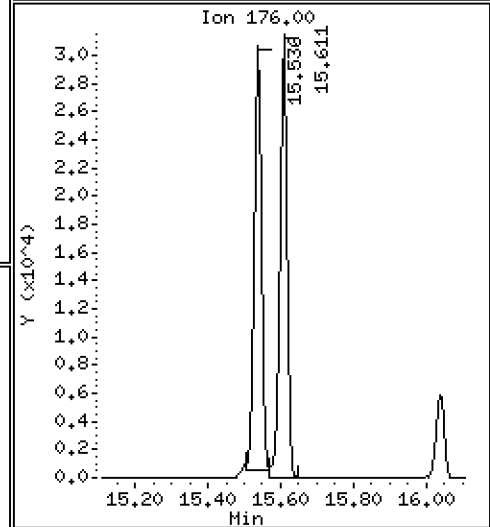
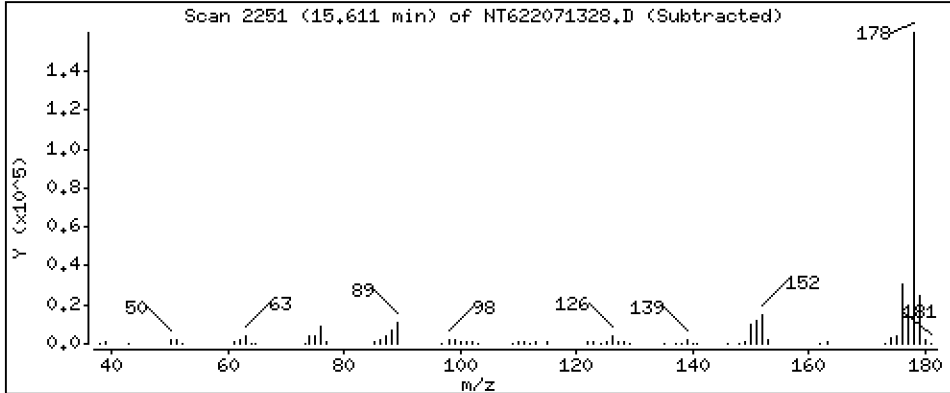
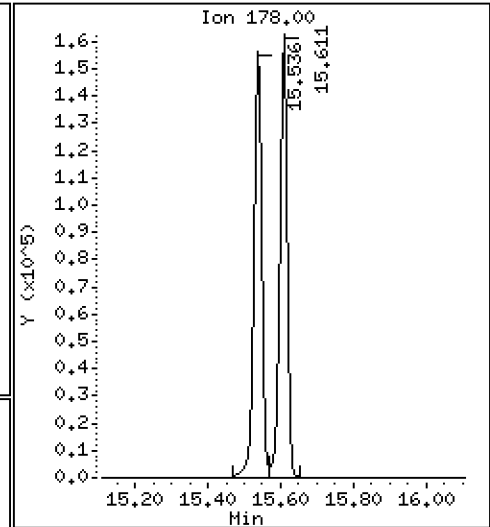
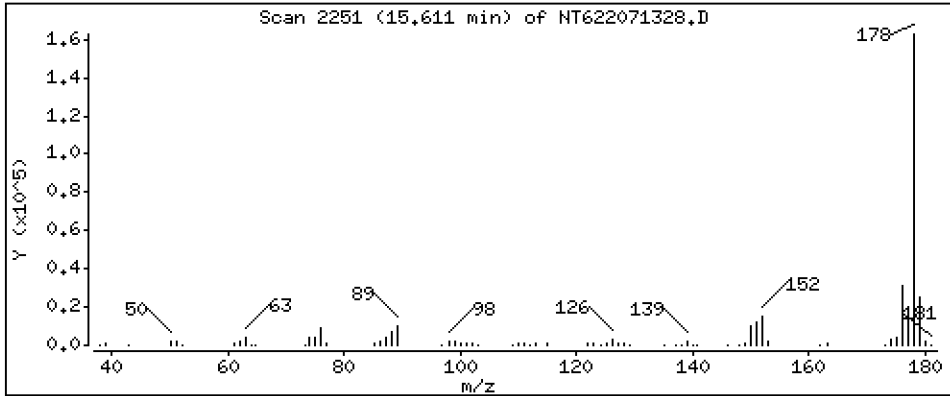
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

61 Anthracene

Concentration: 22.74 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

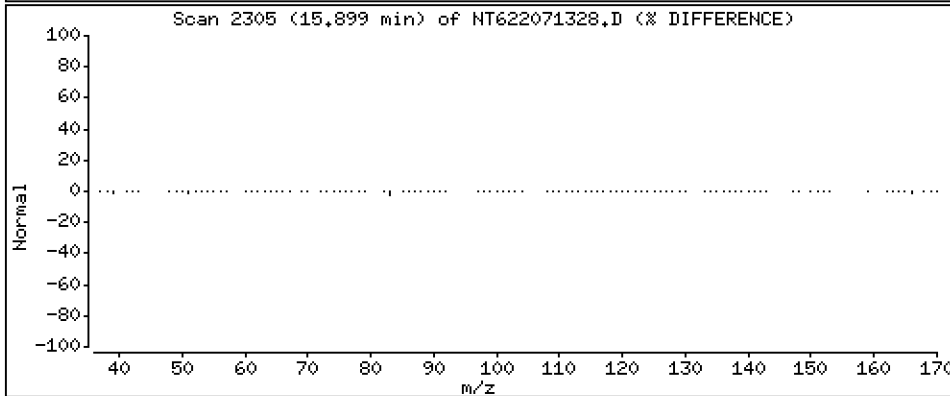
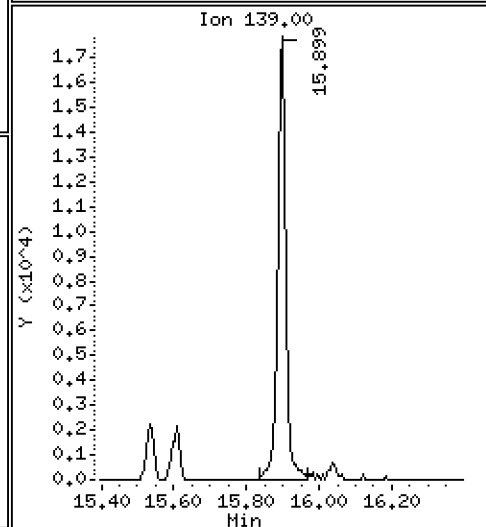
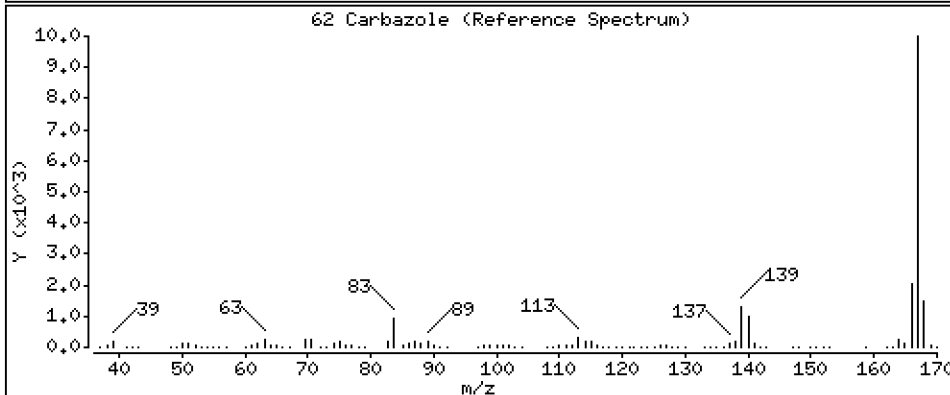
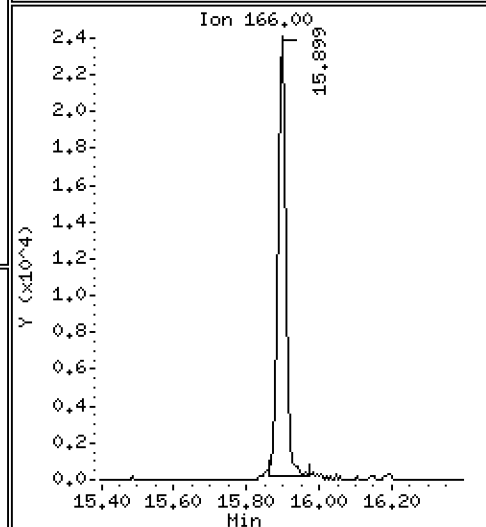
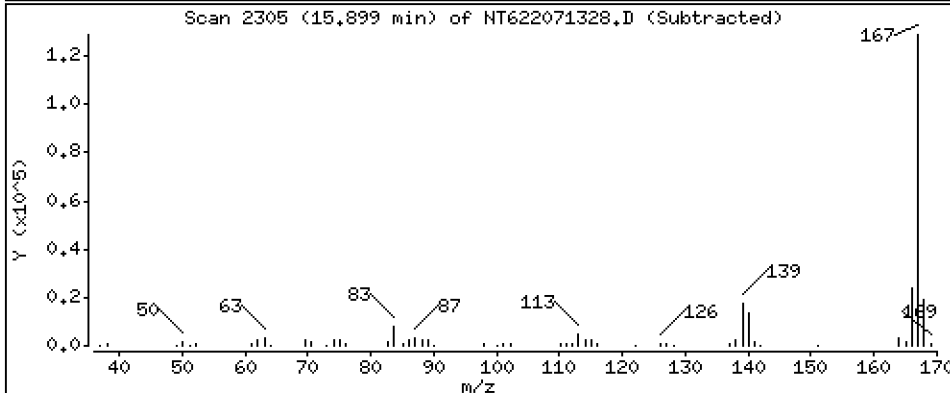
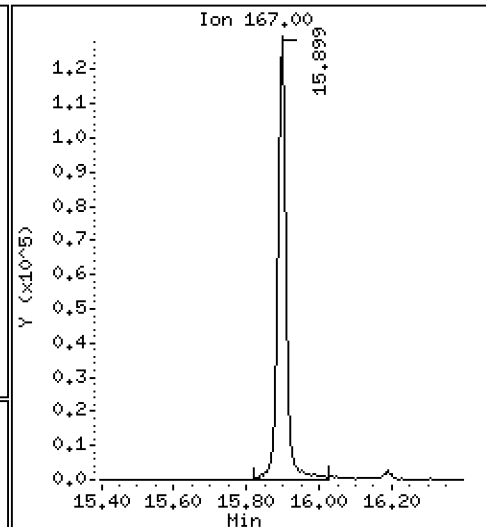
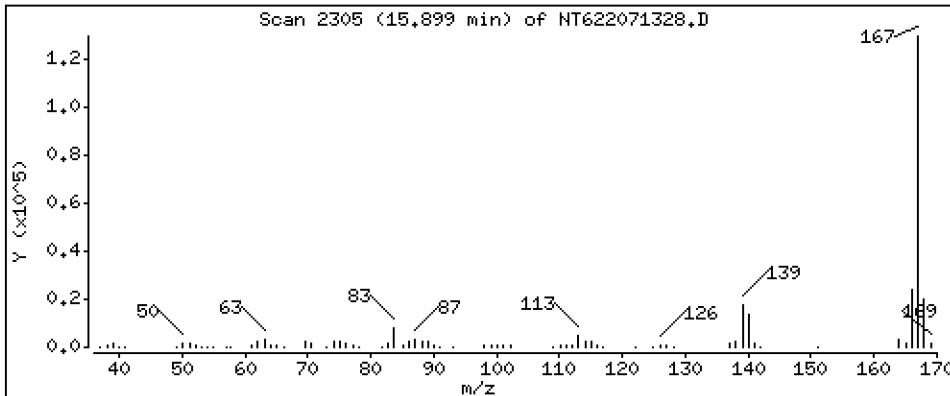
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

62 Carbazole

Concentration: 24.39 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

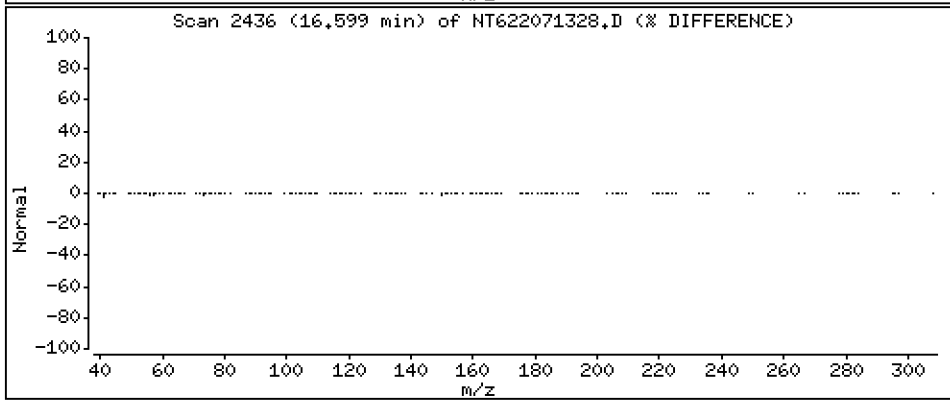
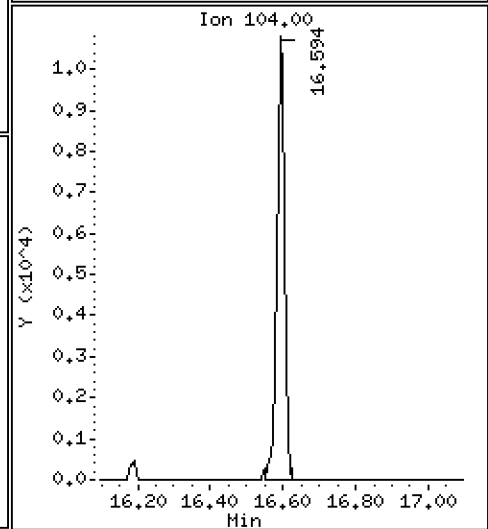
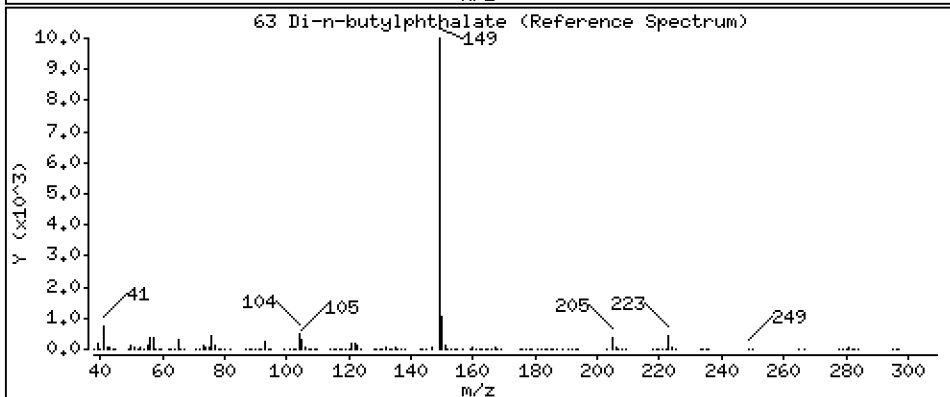
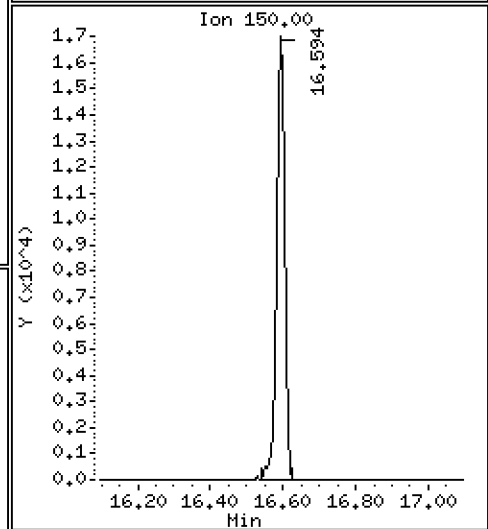
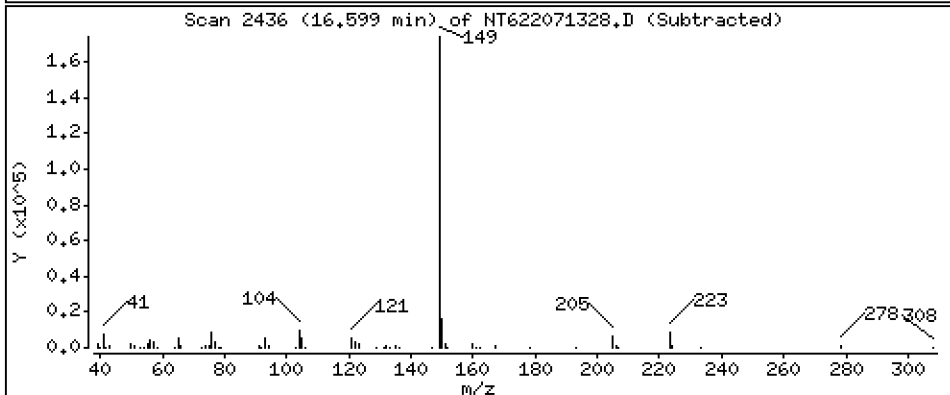
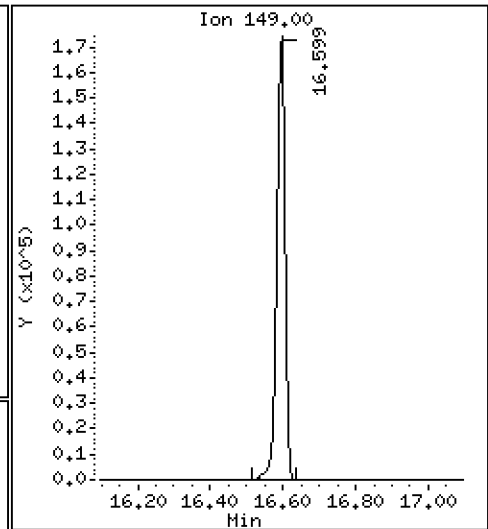
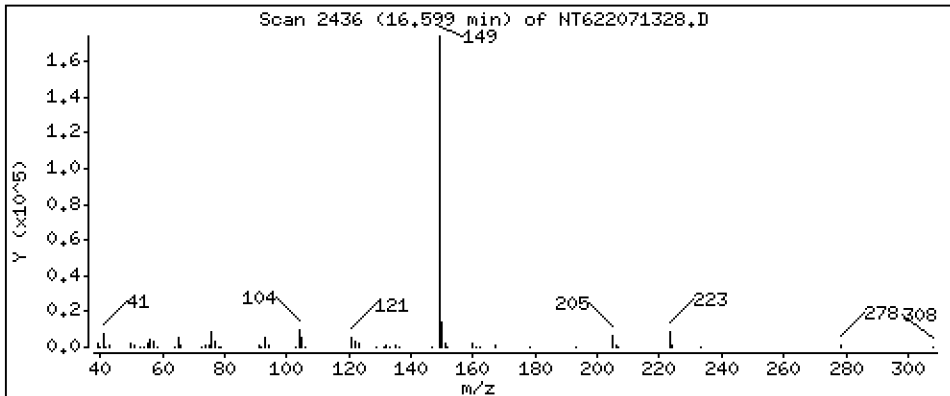
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

63 Di-n-butylphthalate

Concentration: 25.70 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

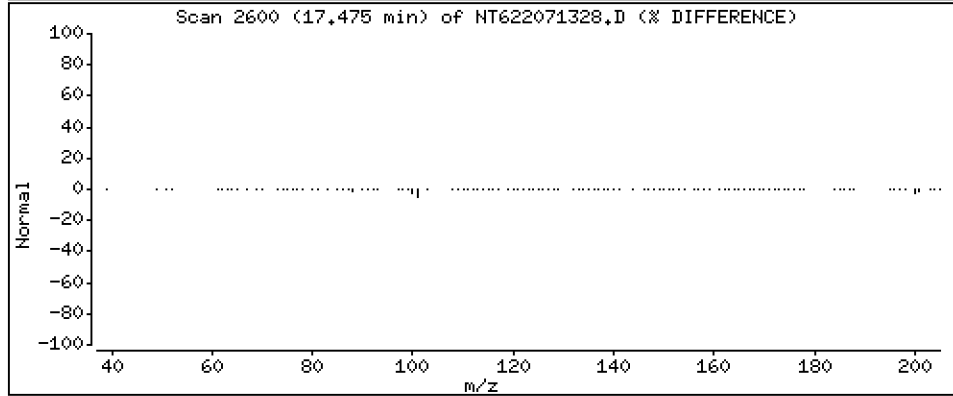
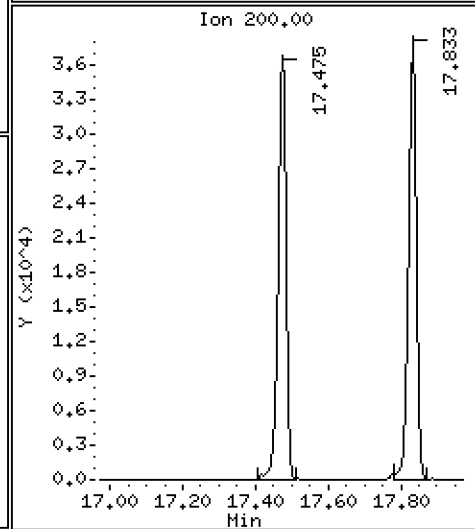
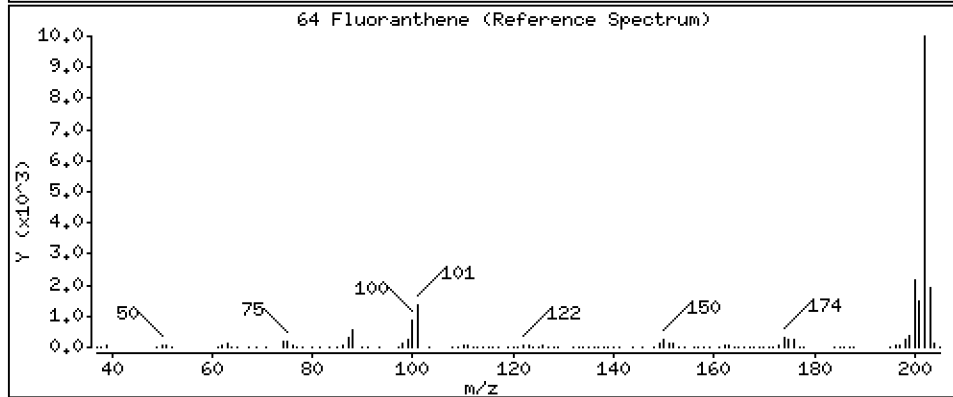
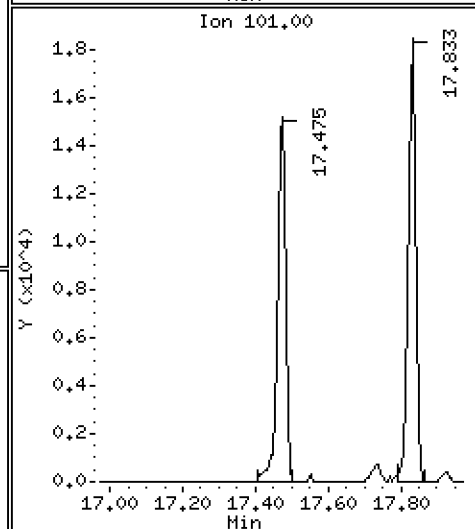
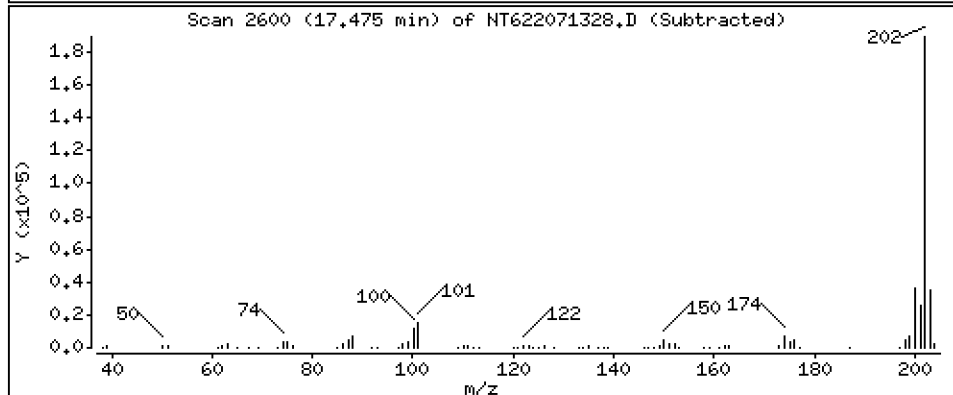
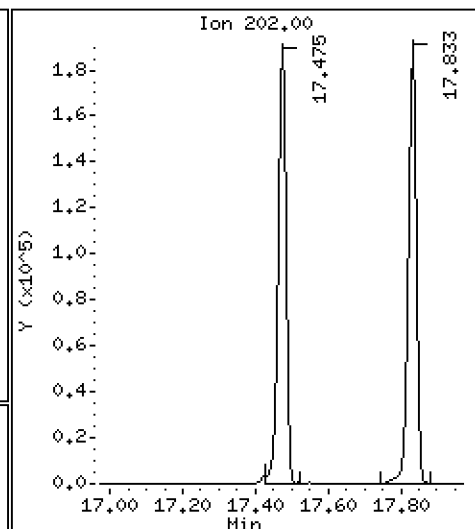
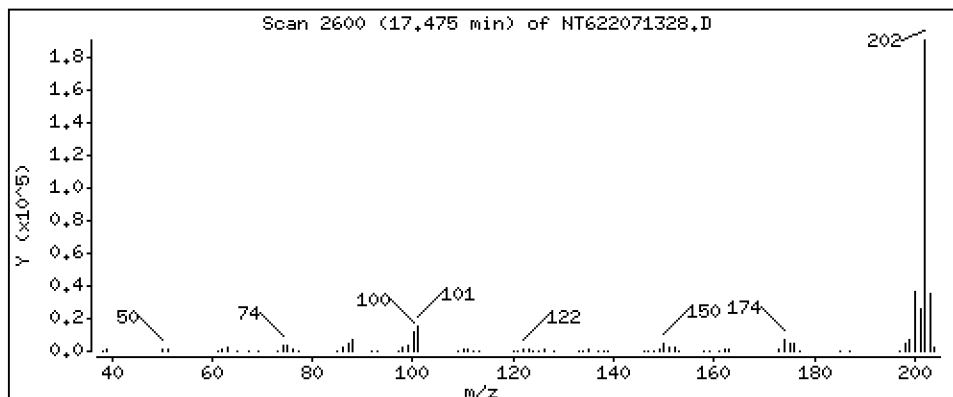
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

64 Fluoranthene

Concentration: 25.66 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

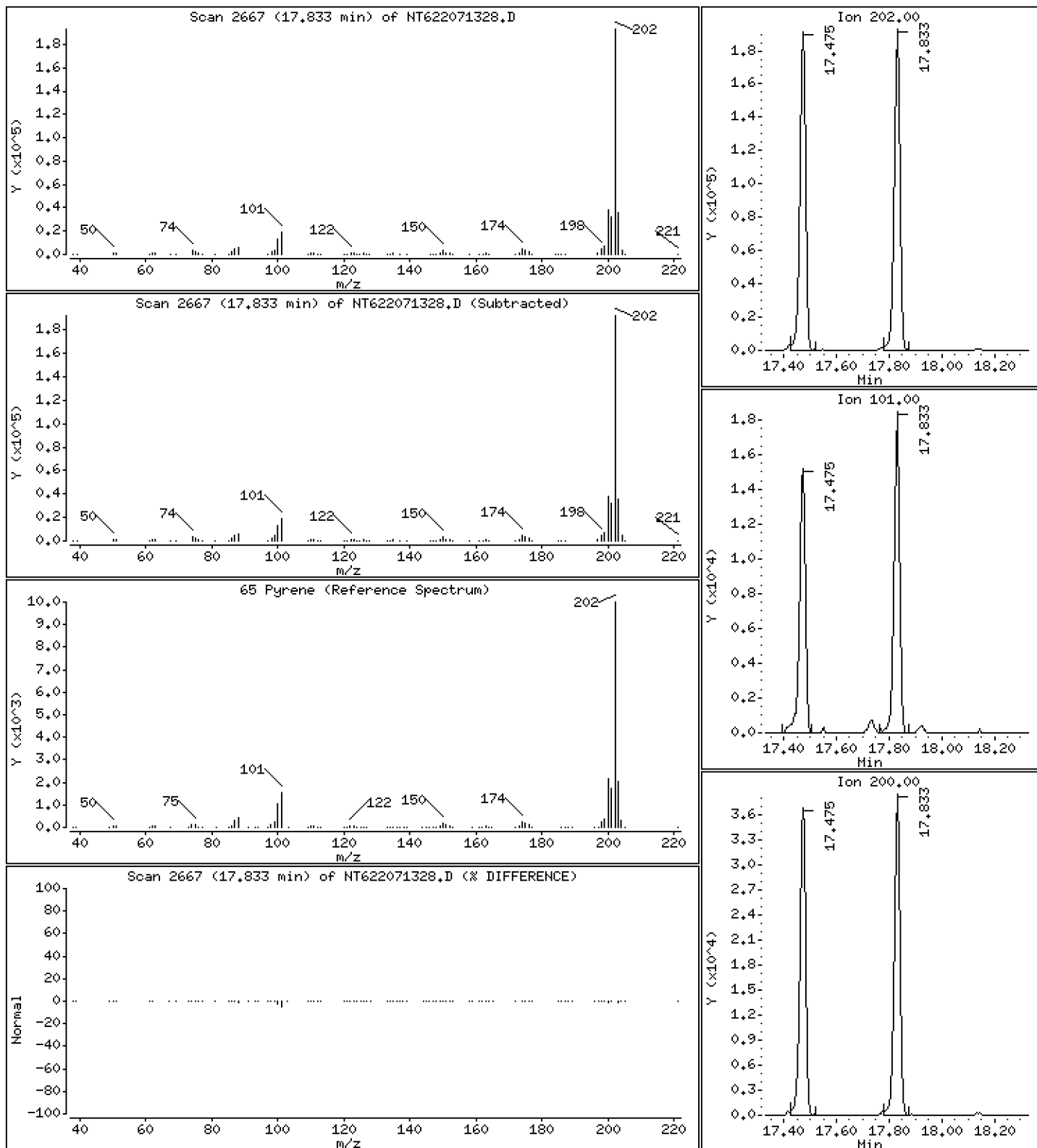
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

65 Pyrene

Concentration: 21.89 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

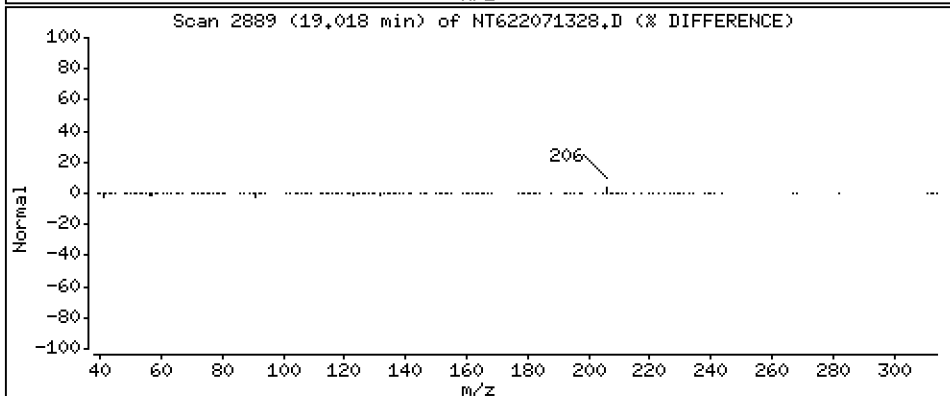
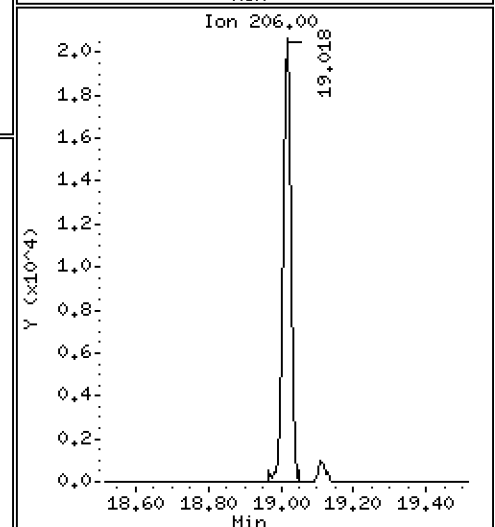
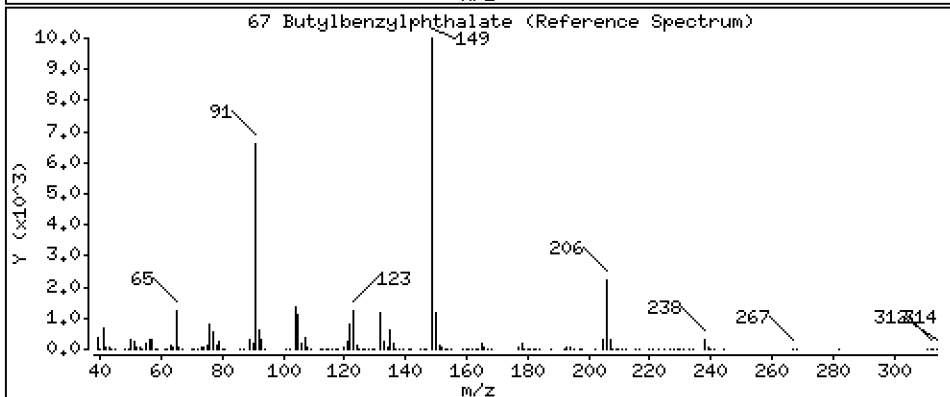
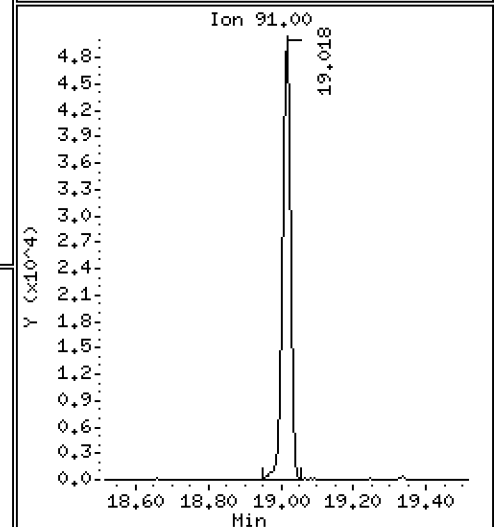
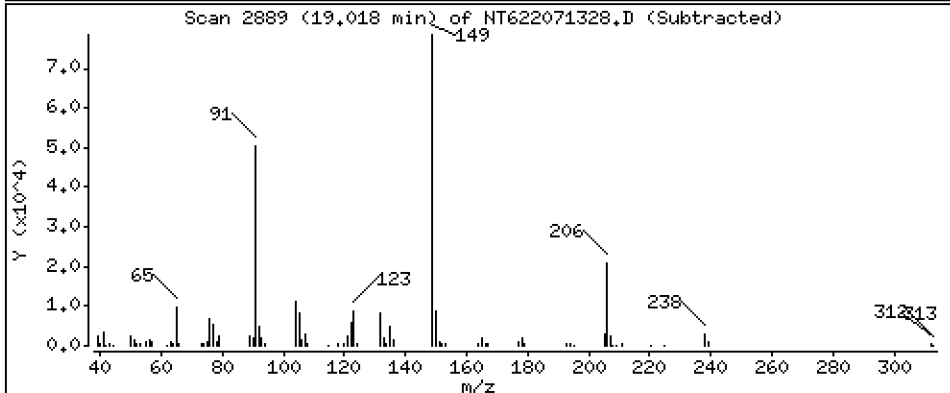
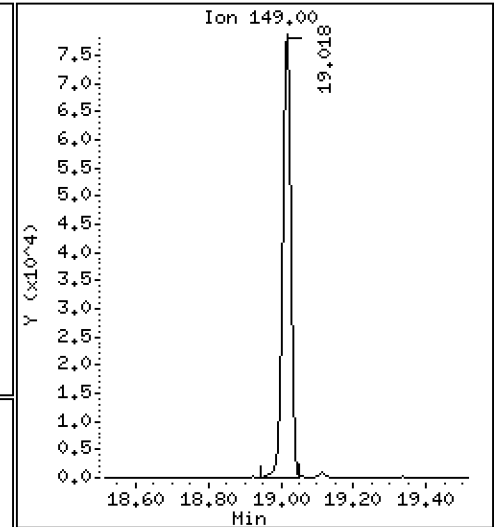
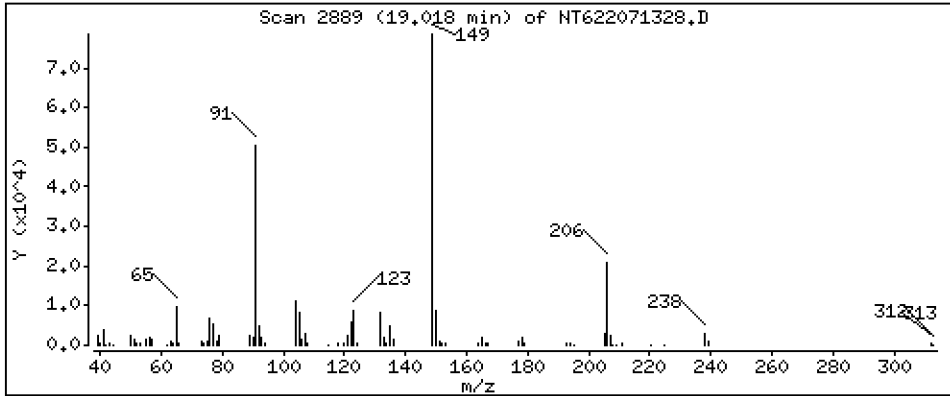
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

67 Butylbenzylphthalate

Concentration: 23.91 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

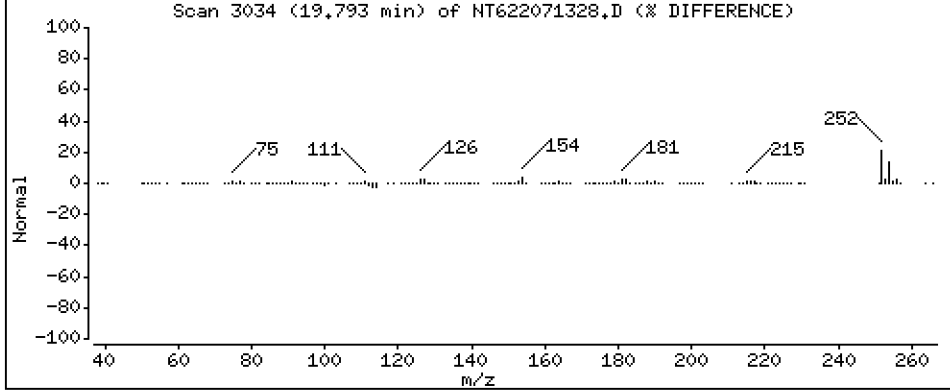
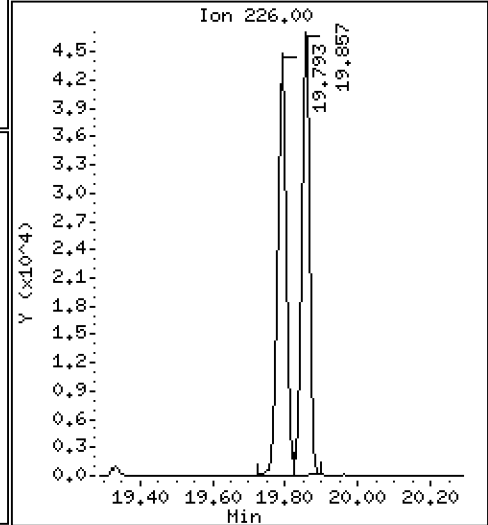
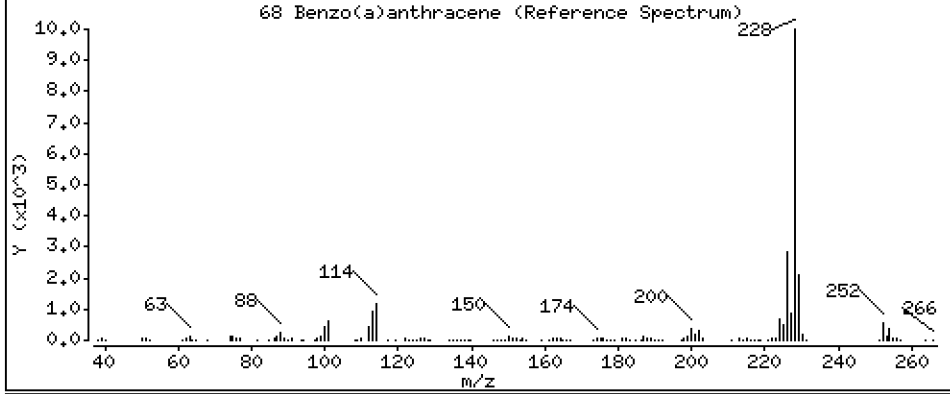
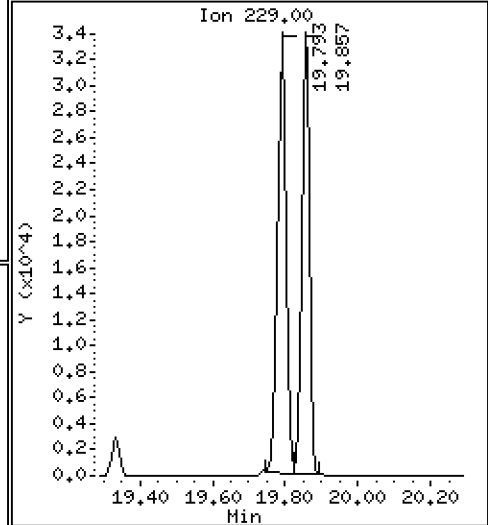
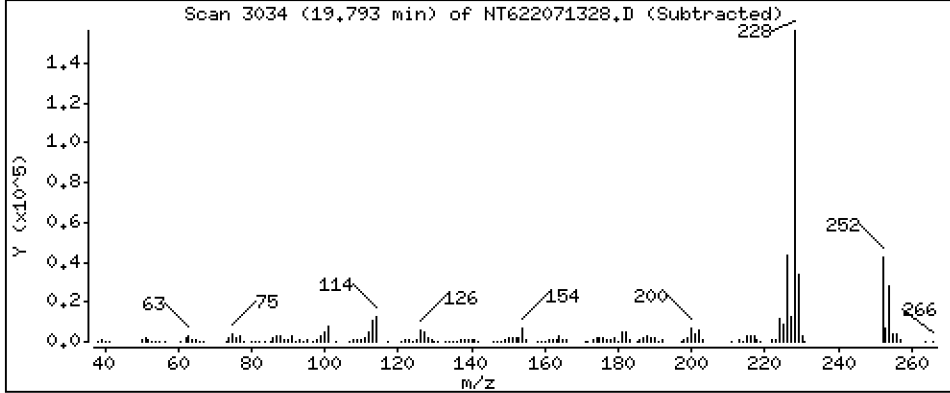
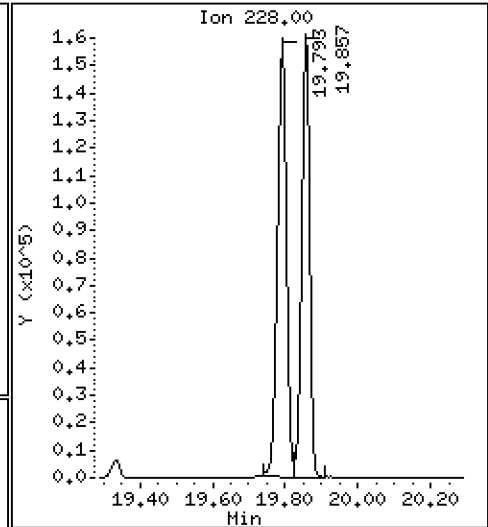
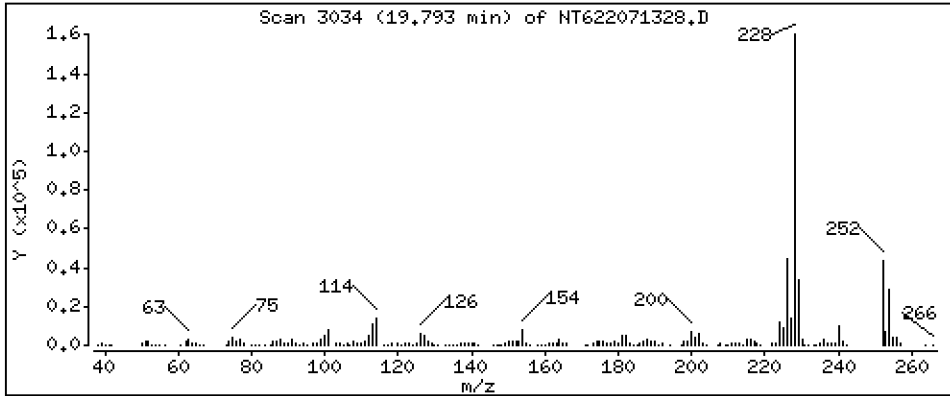
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

68 Benzo(a)anthracene

Concentration: 23,31 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

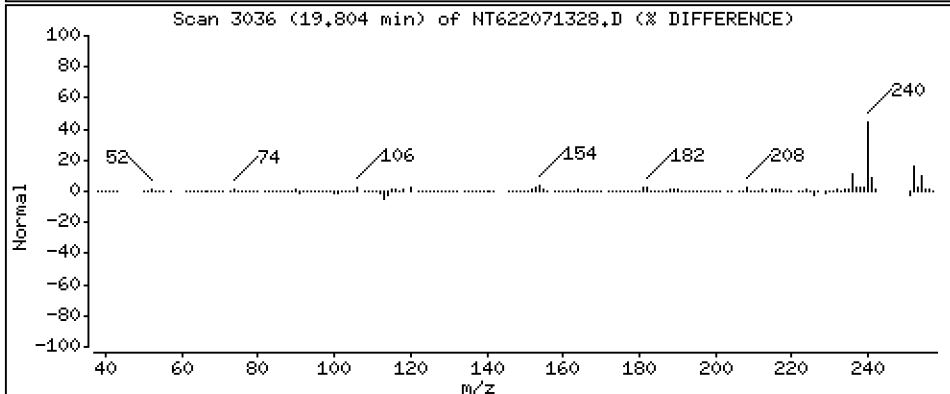
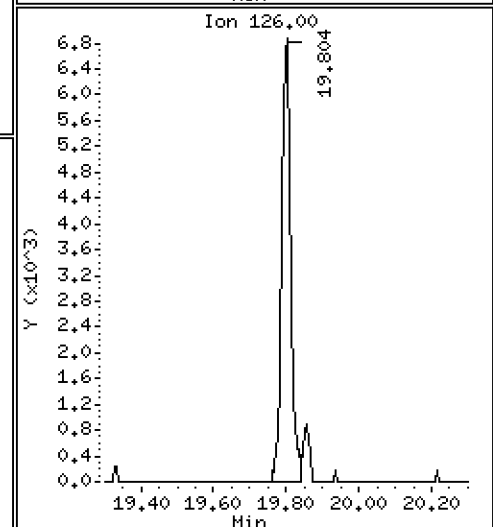
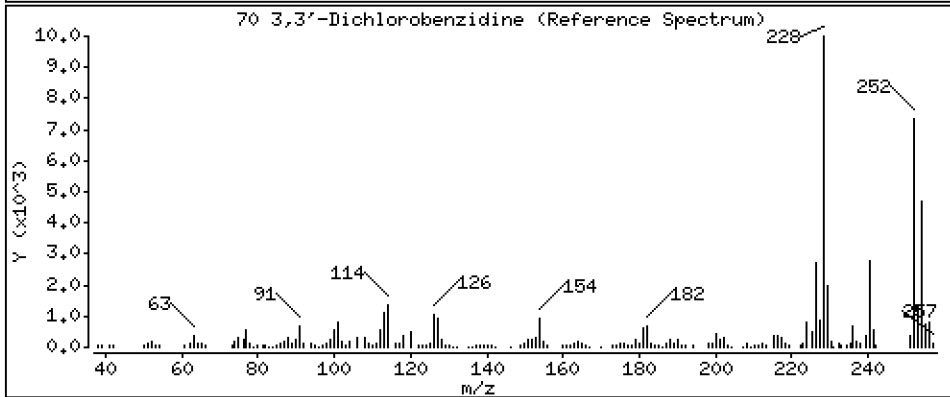
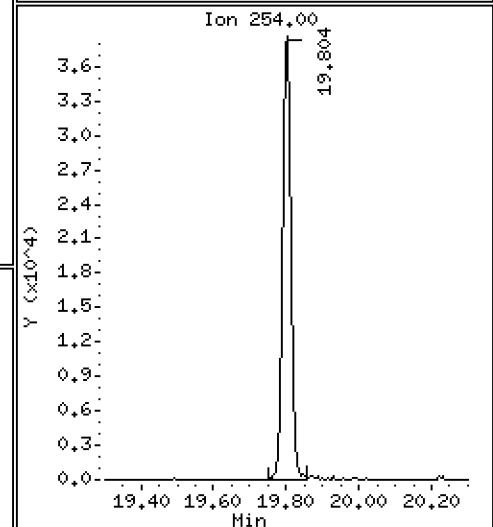
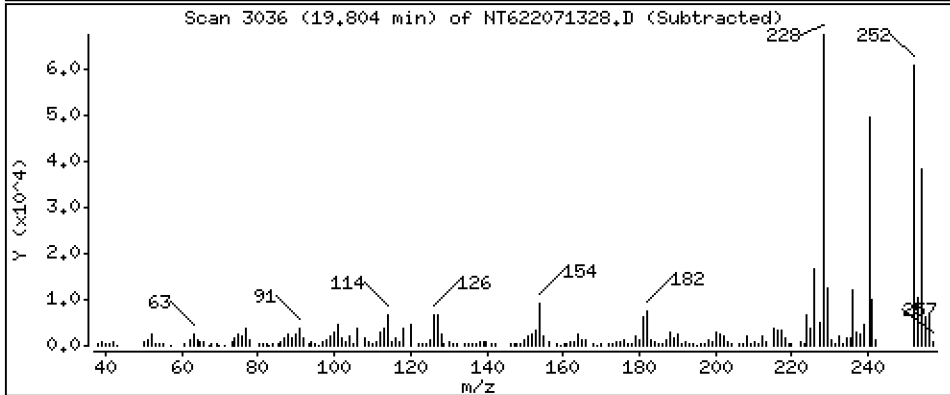
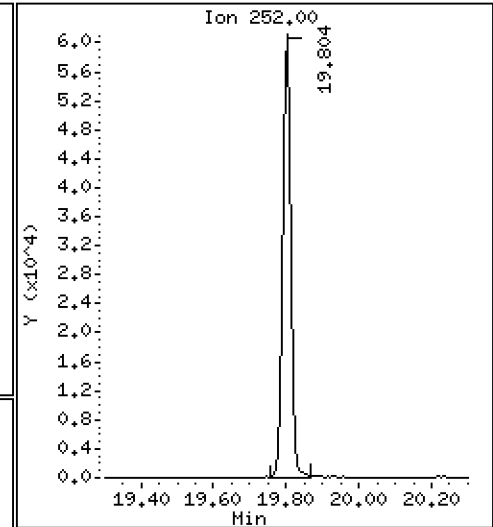
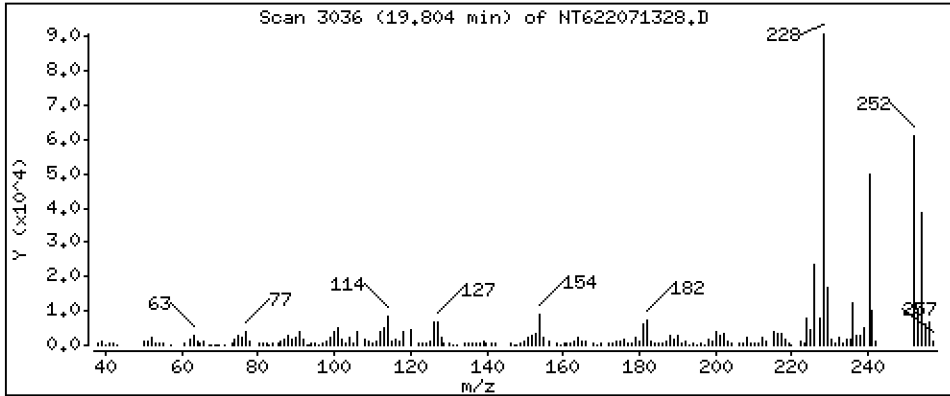
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

70 3,3'-Dichlorobenzidine

Concentration: 27,05 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

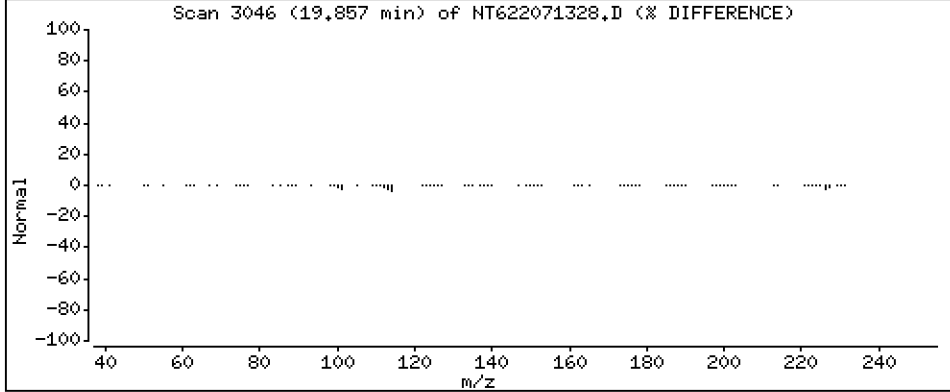
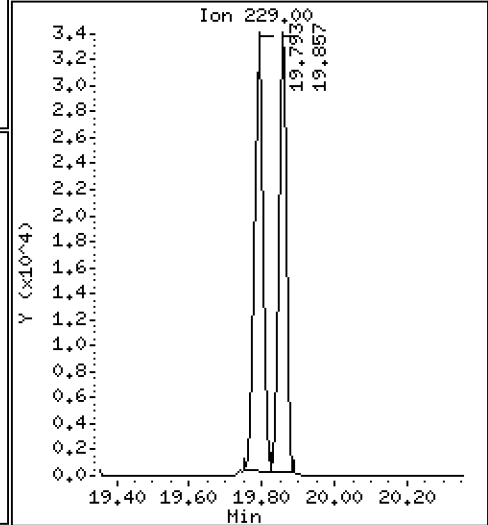
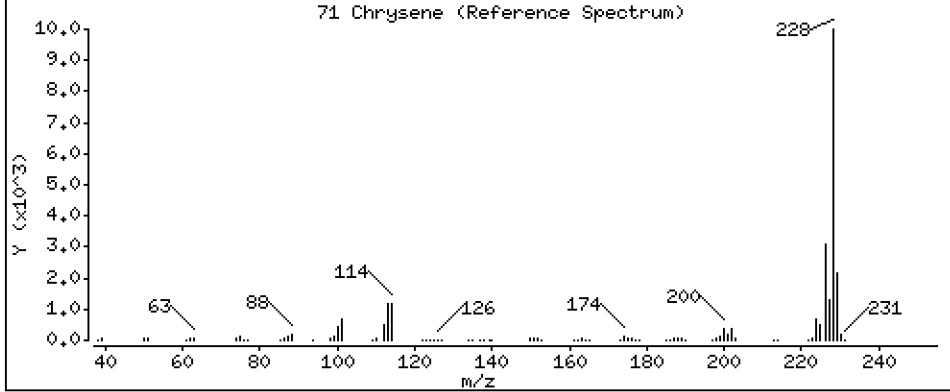
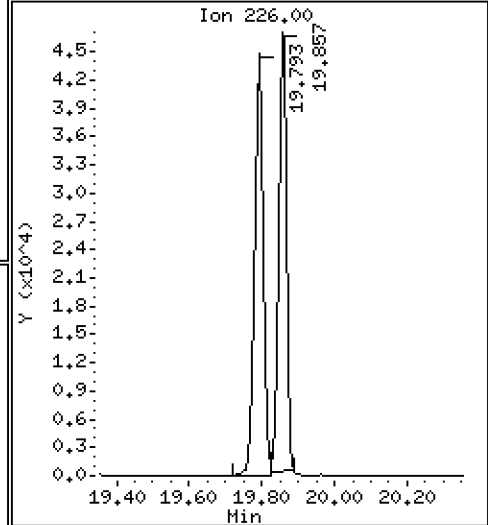
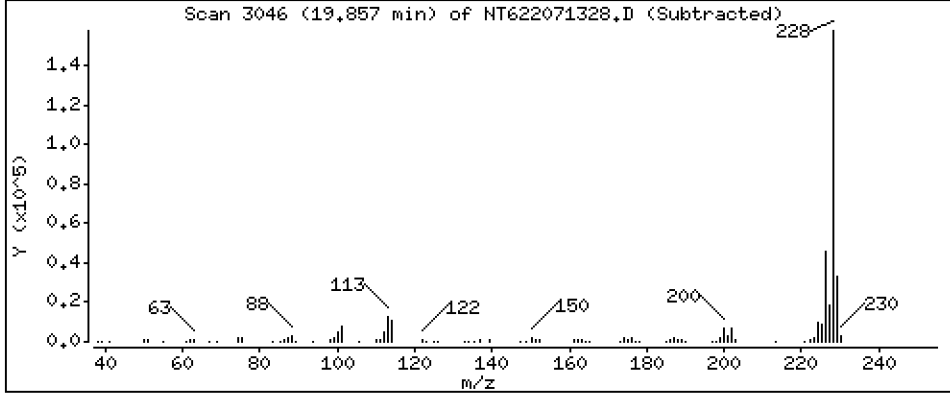
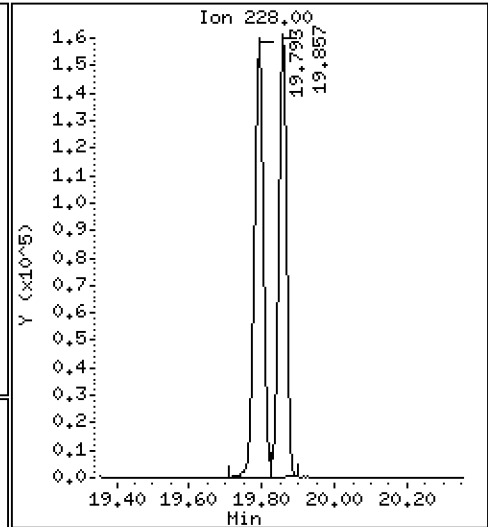
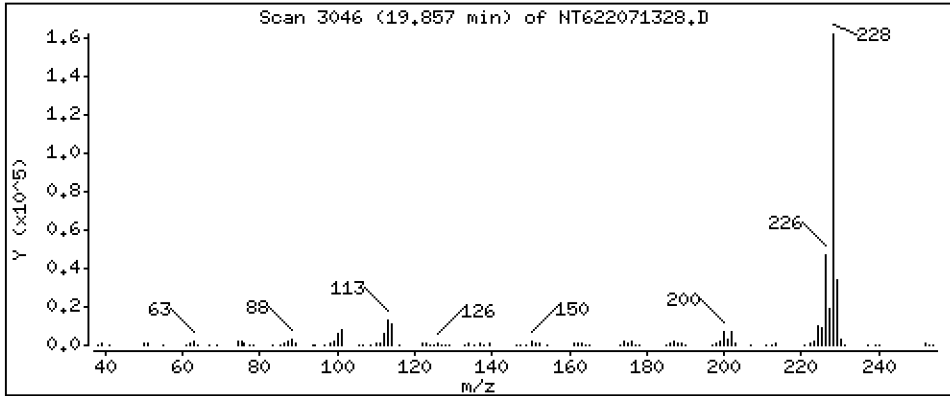
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

71 Chrysene

Concentration: 22.53 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

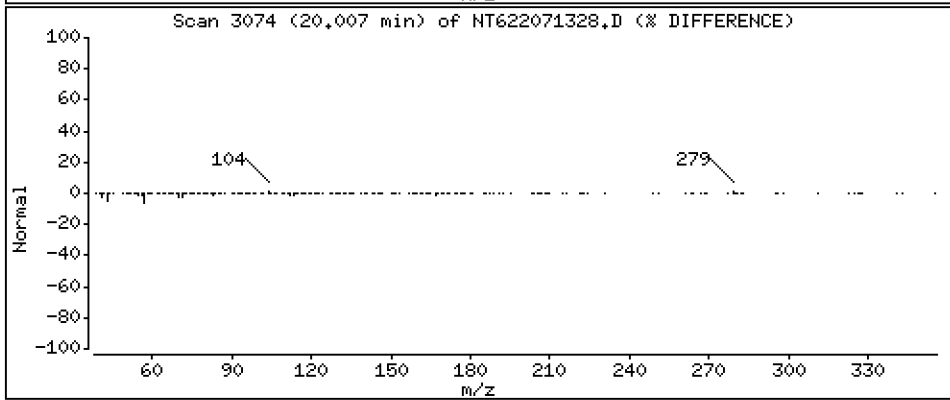
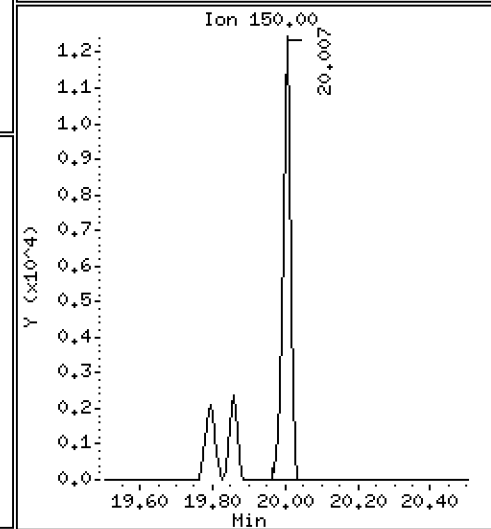
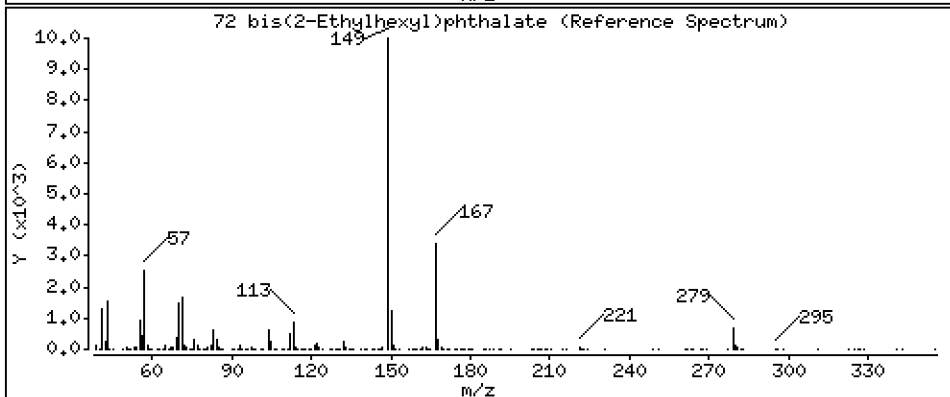
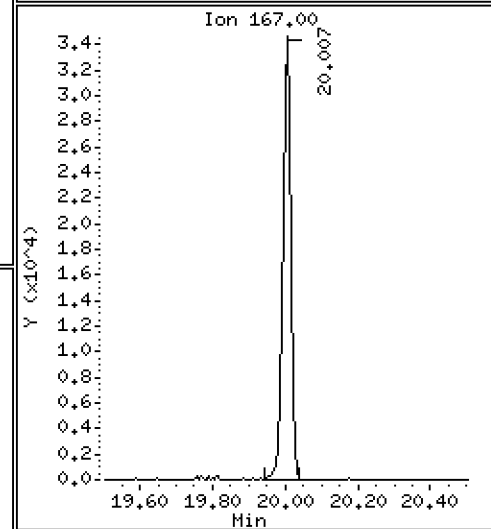
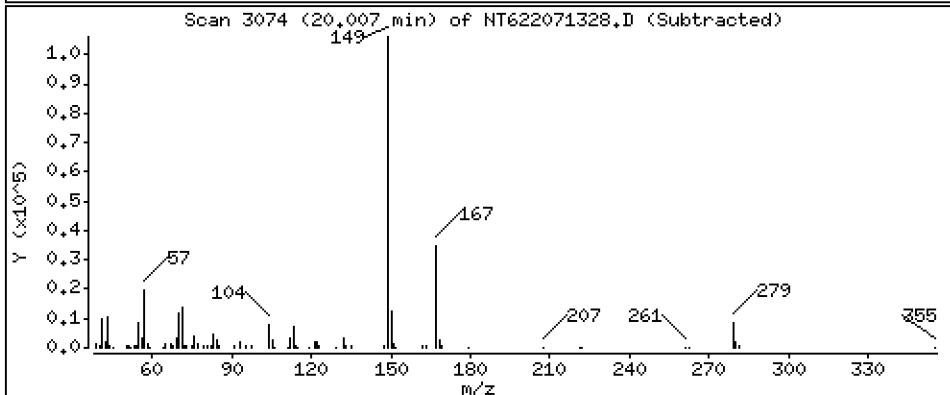
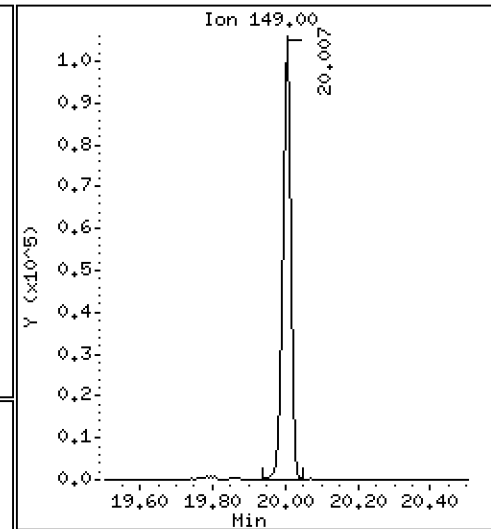
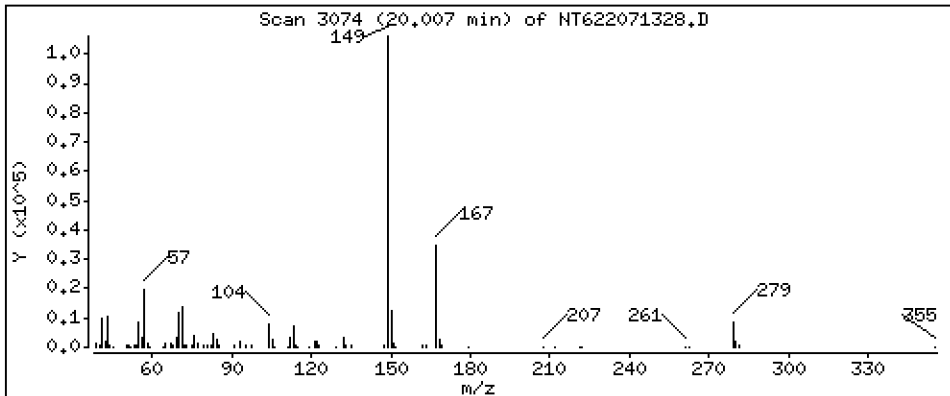
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

72 bis(2-Ethylhexyl)phthalate

Concentration: 24,54 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

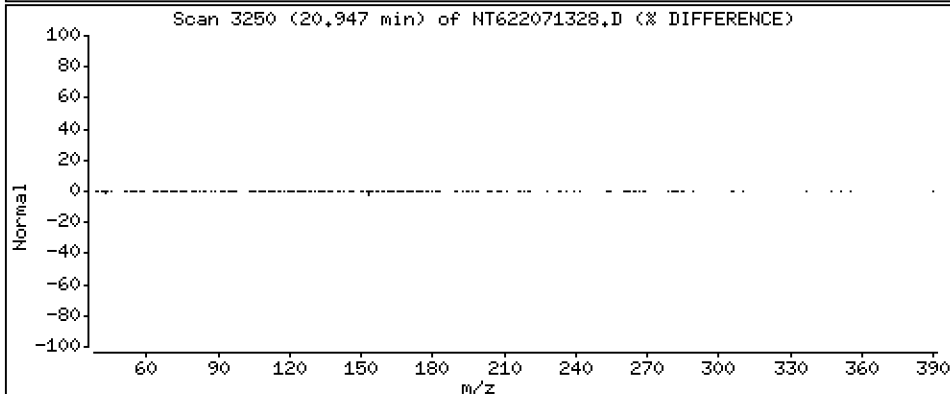
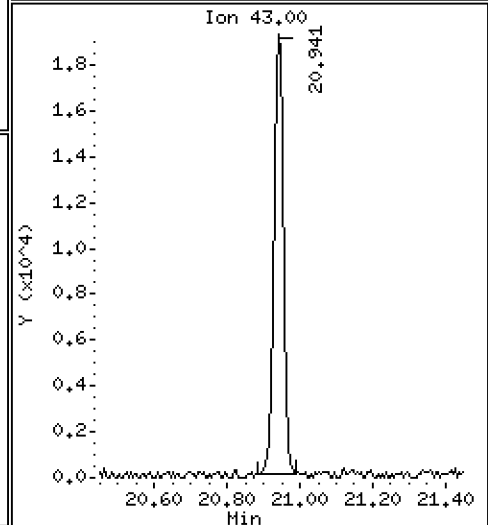
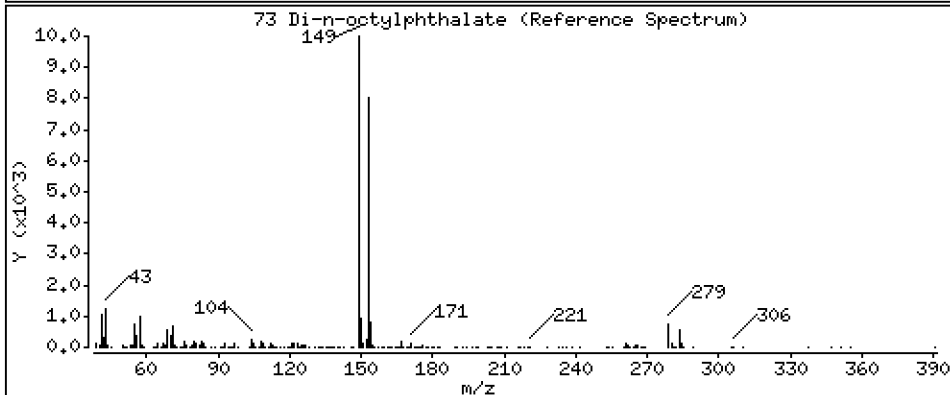
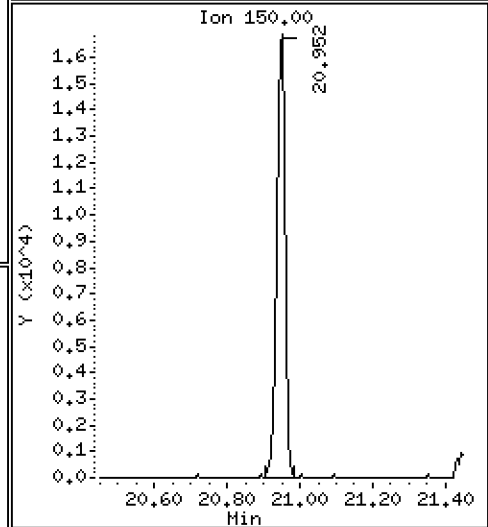
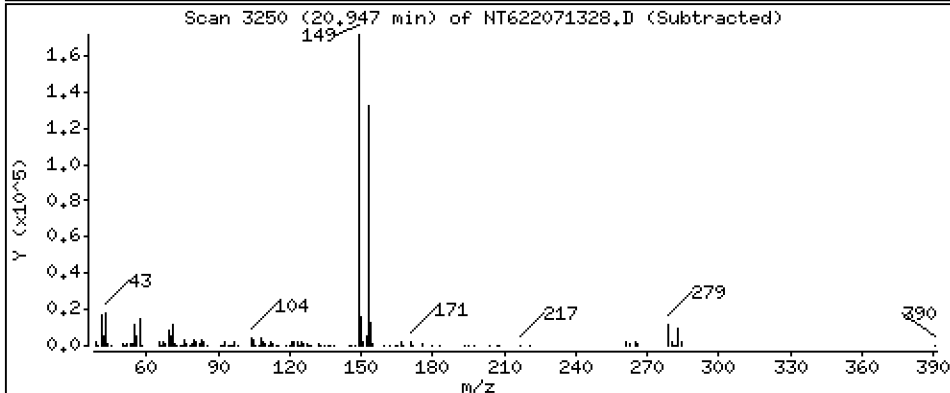
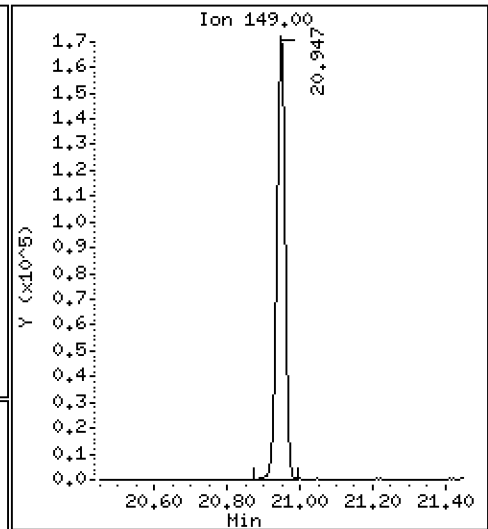
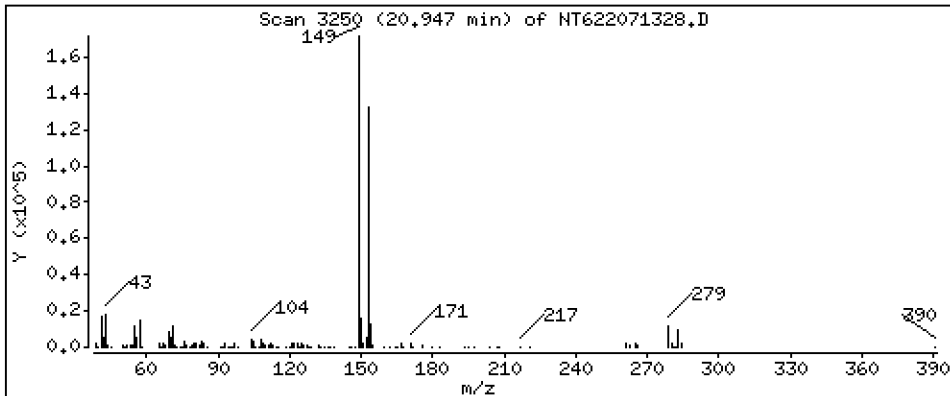
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

73 Di-n-octylphthalate

Concentration: 23,20 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

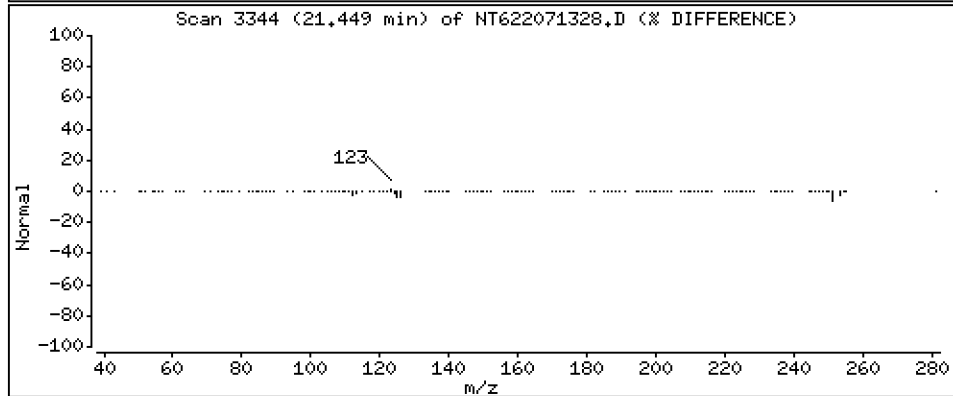
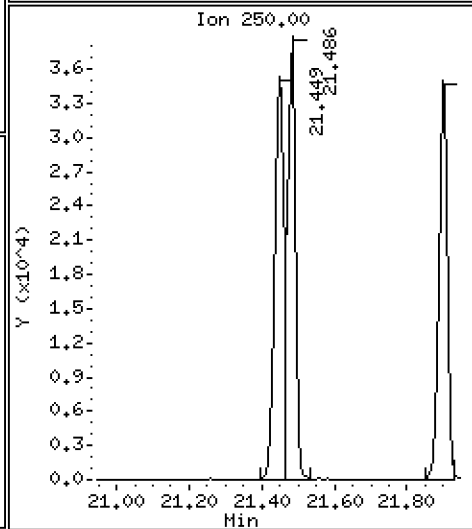
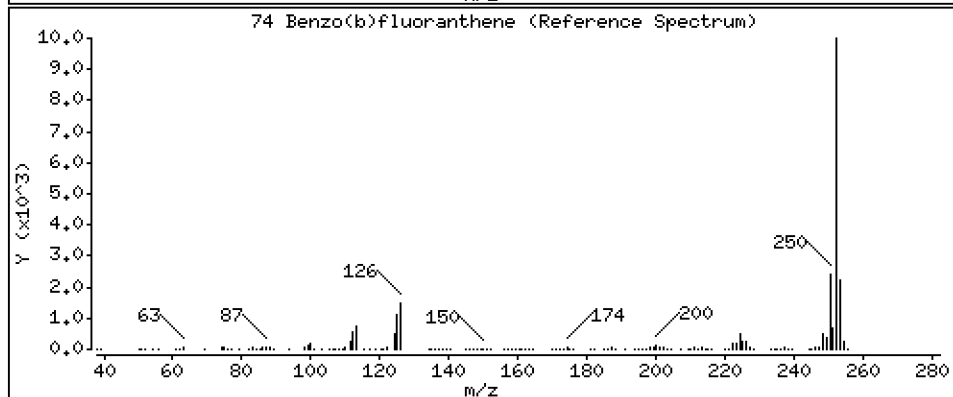
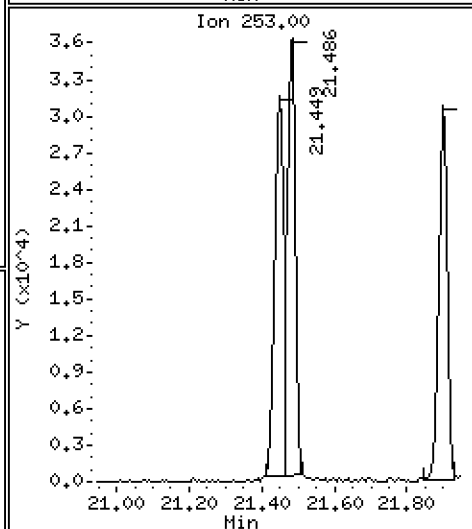
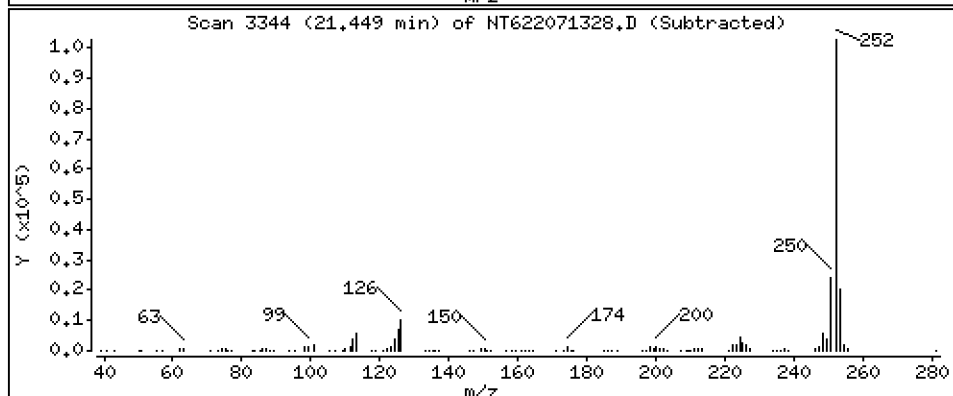
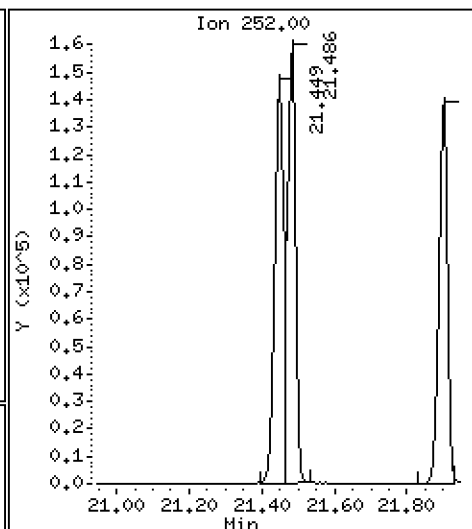
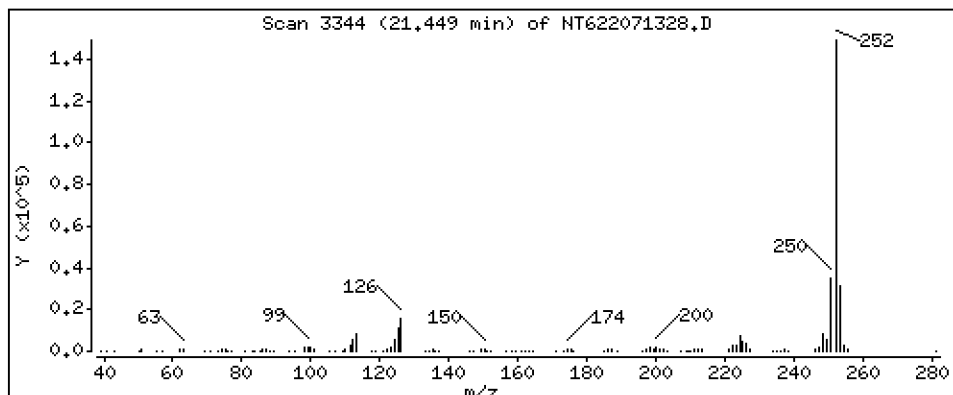
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

74 Benzo(b)fluoranthene

Concentration: 24.83 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

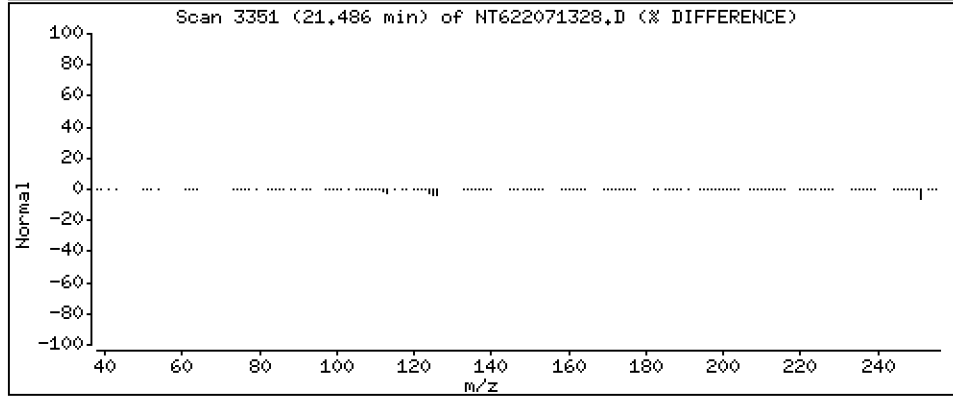
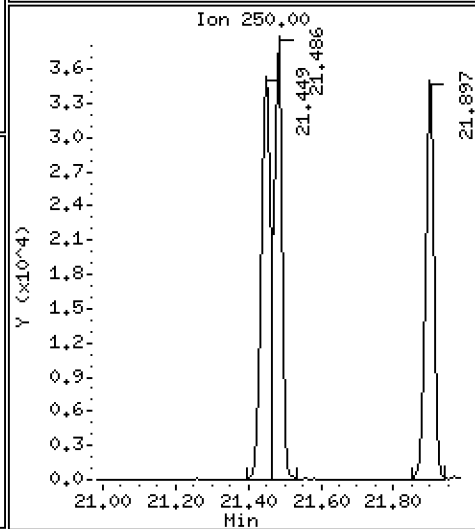
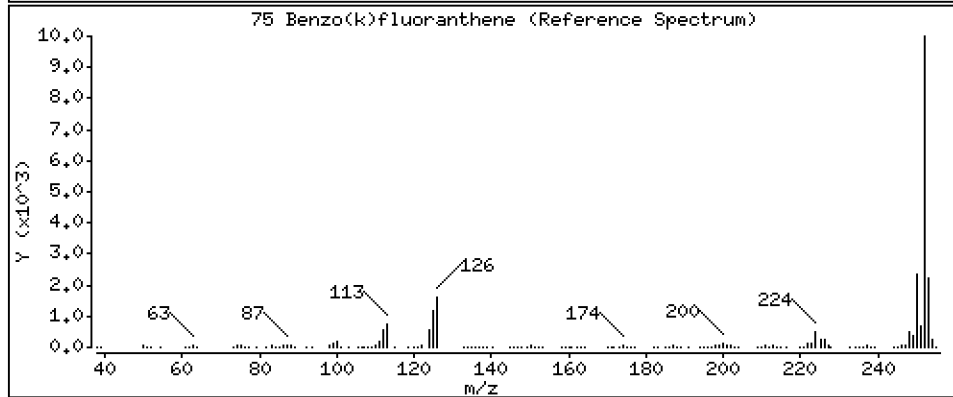
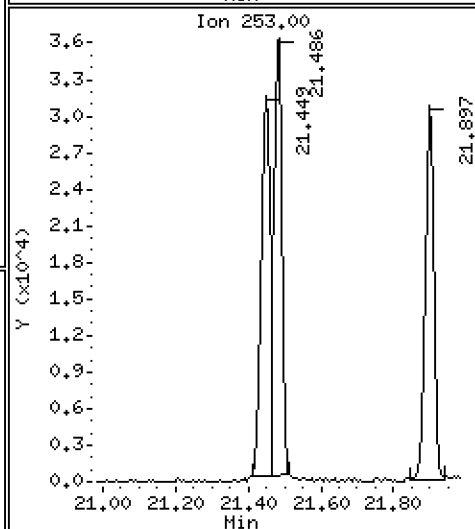
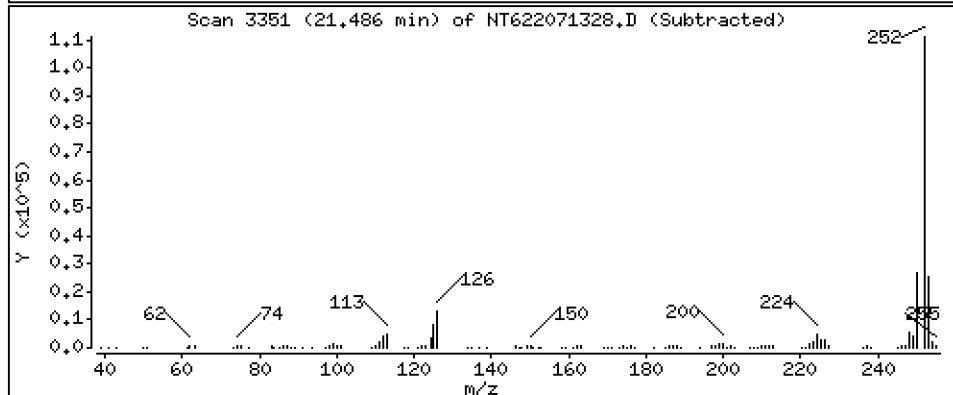
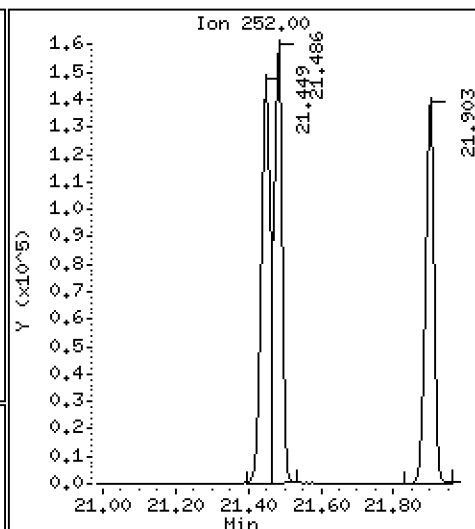
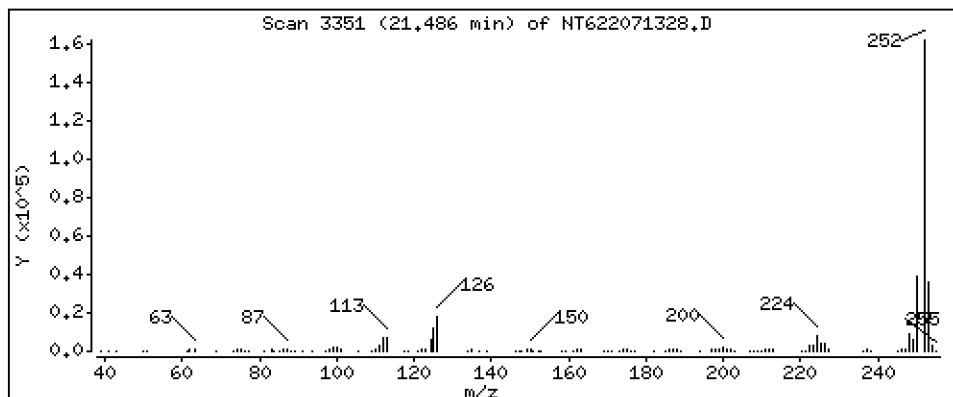
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

75 Benzo(k)fluoranthene

Concentration: 24.99 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

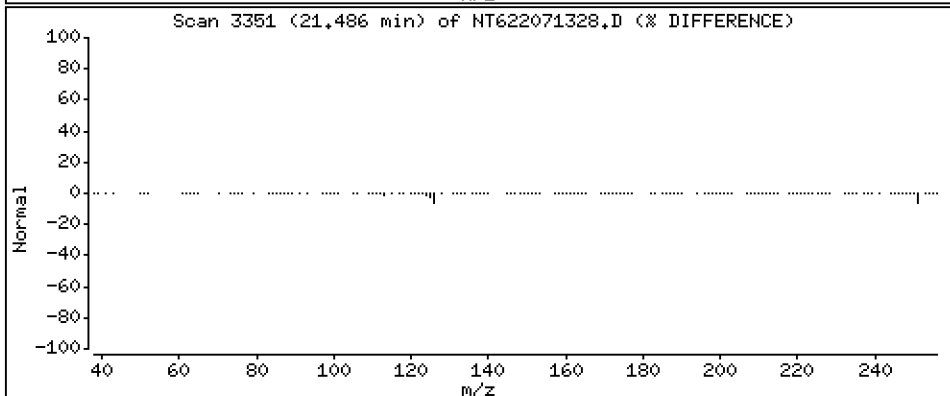
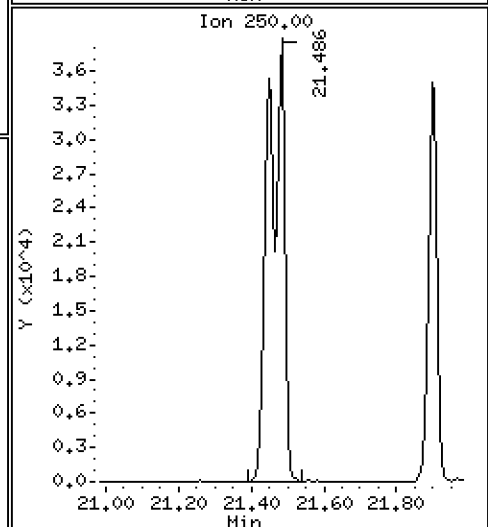
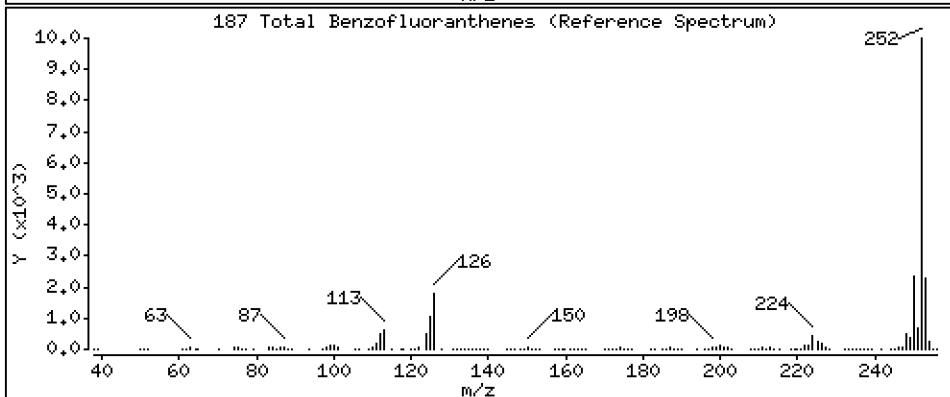
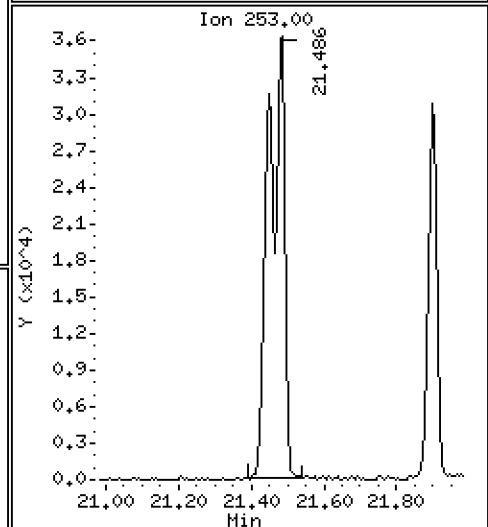
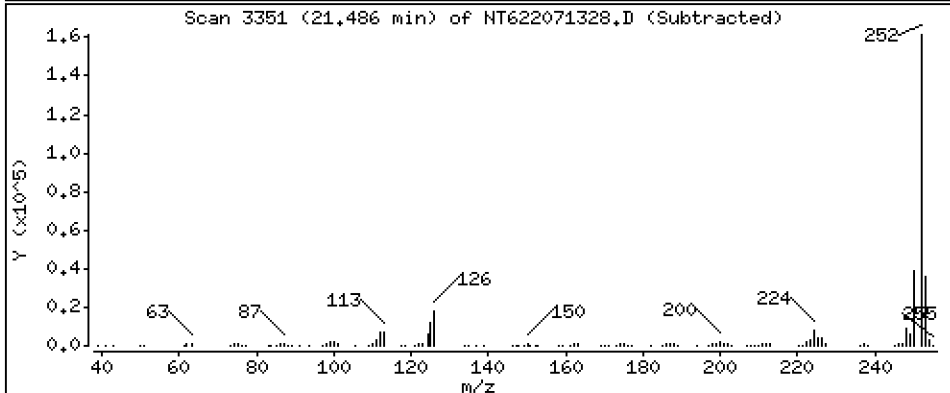
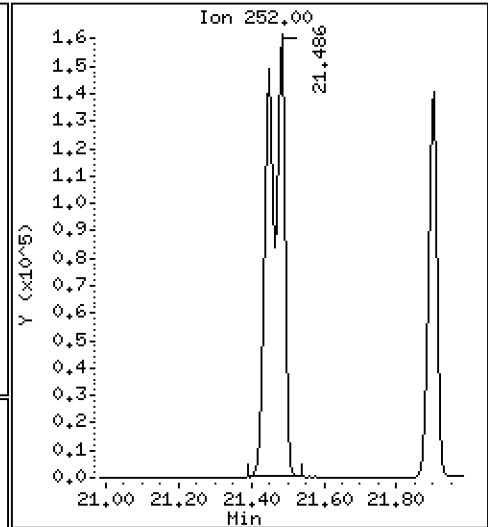
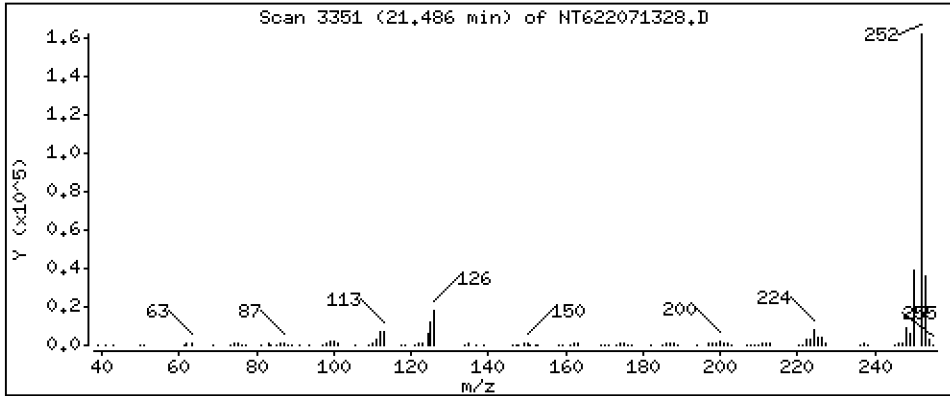
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

187 Total Benzofluoranthenes

Concentration: 49.68 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

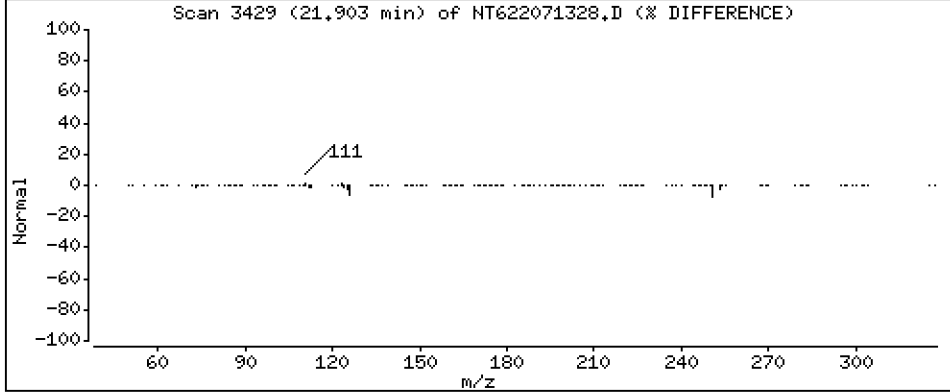
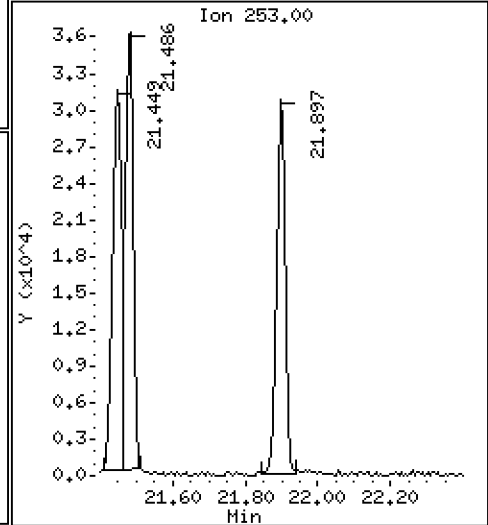
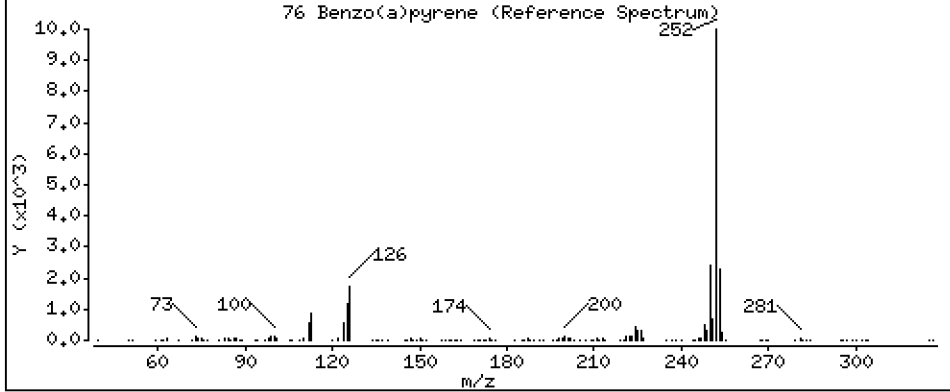
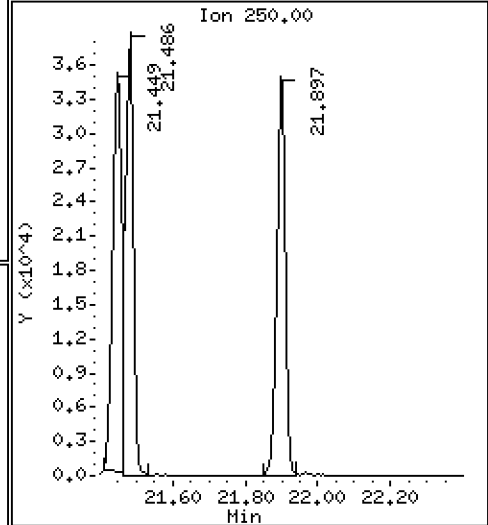
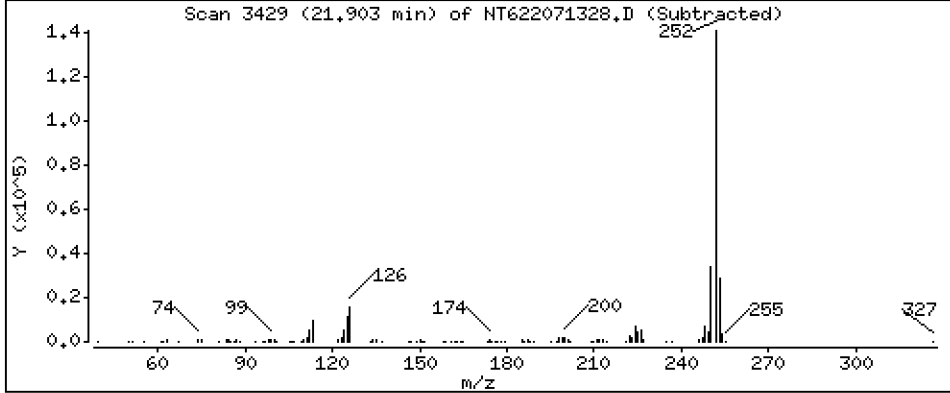
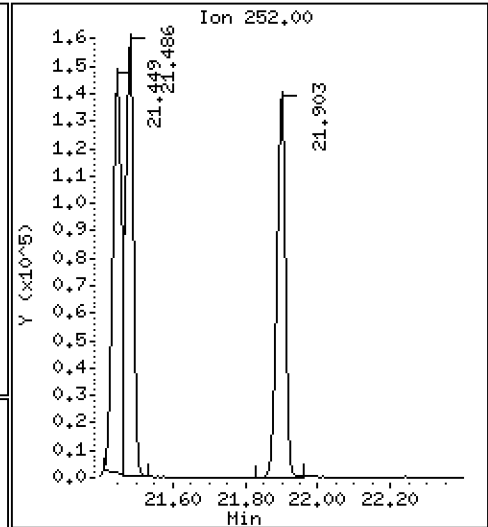
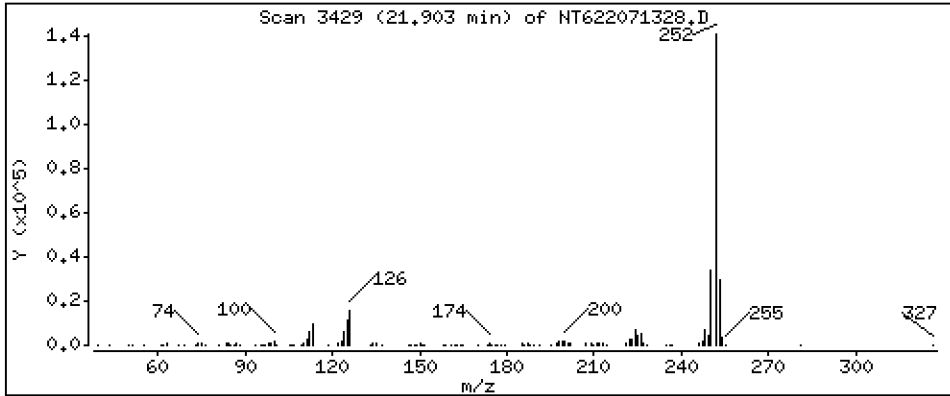
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

76 Benzo(a)pyrene

Concentration: 23.85 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

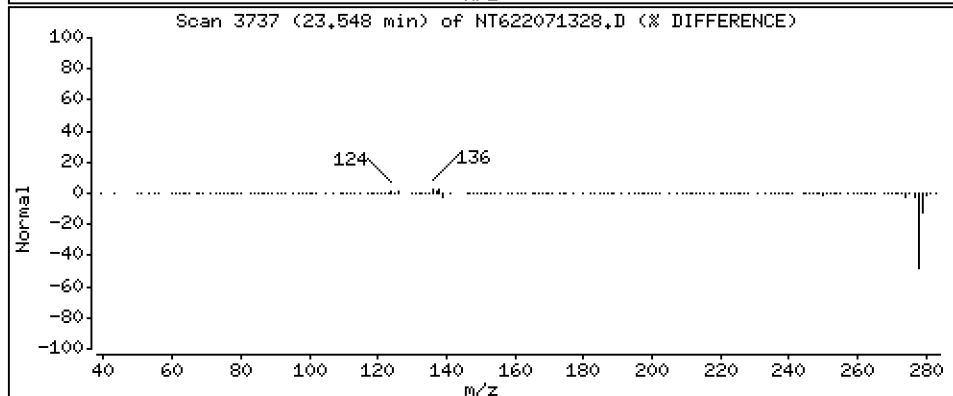
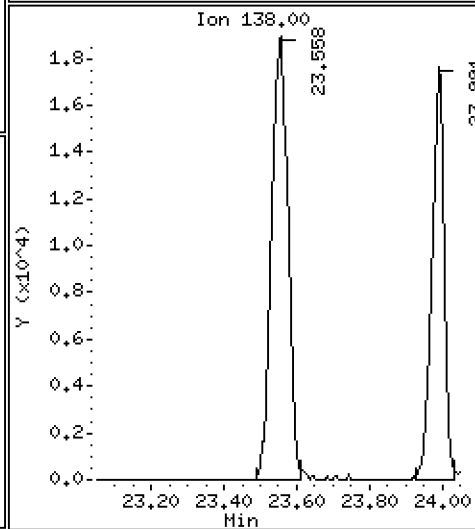
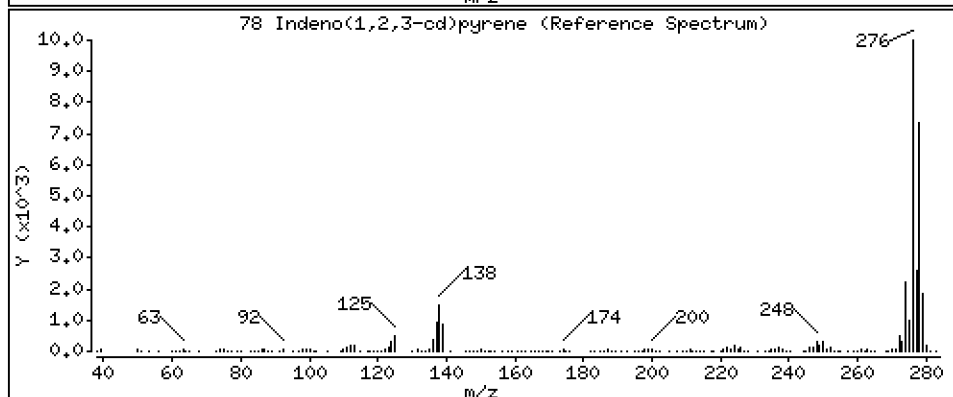
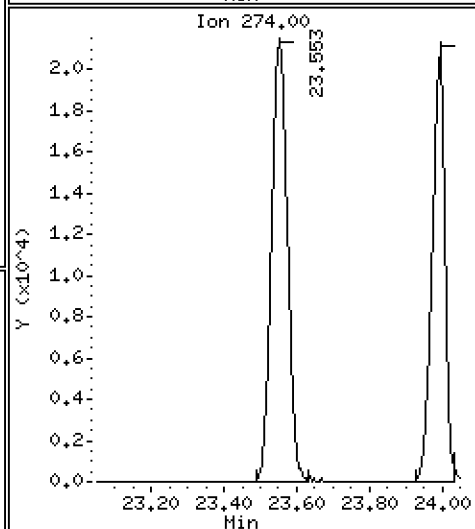
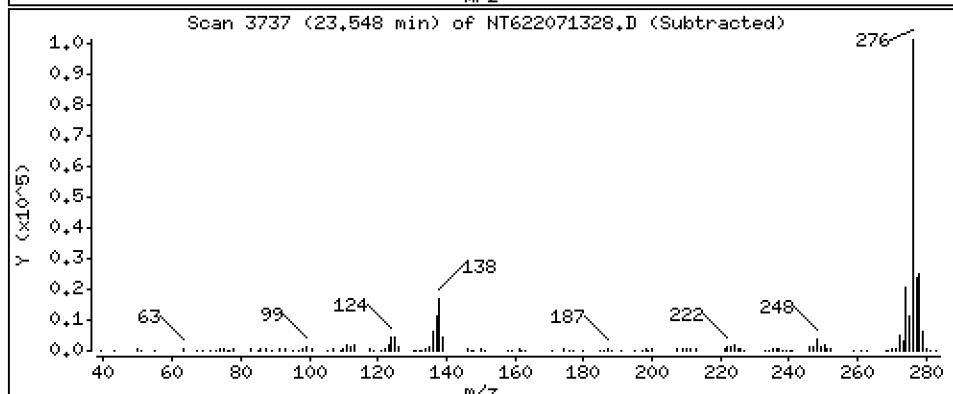
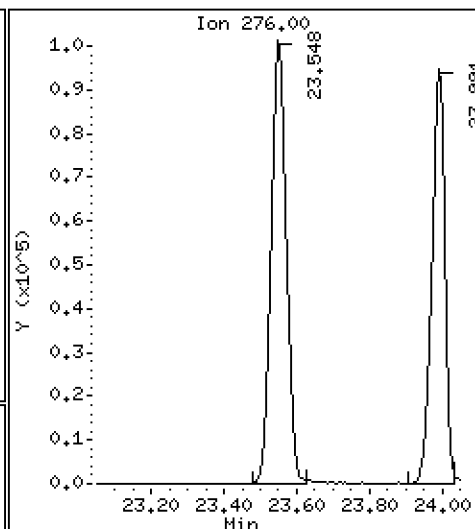
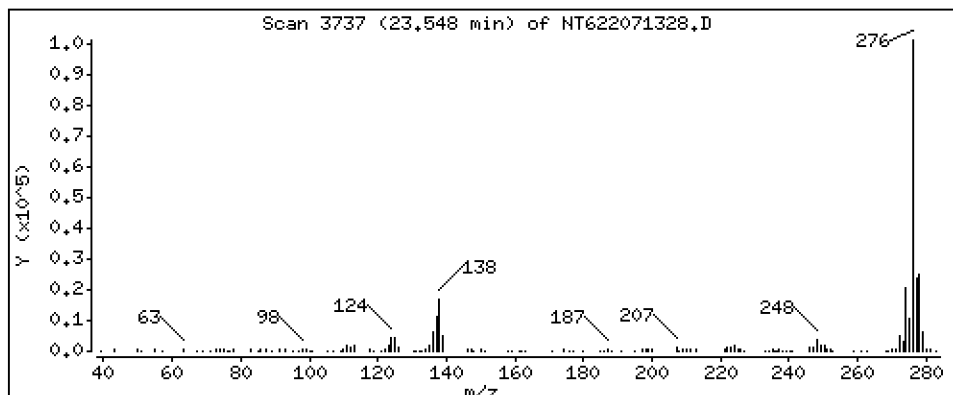
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

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

Concentration: 20.87 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

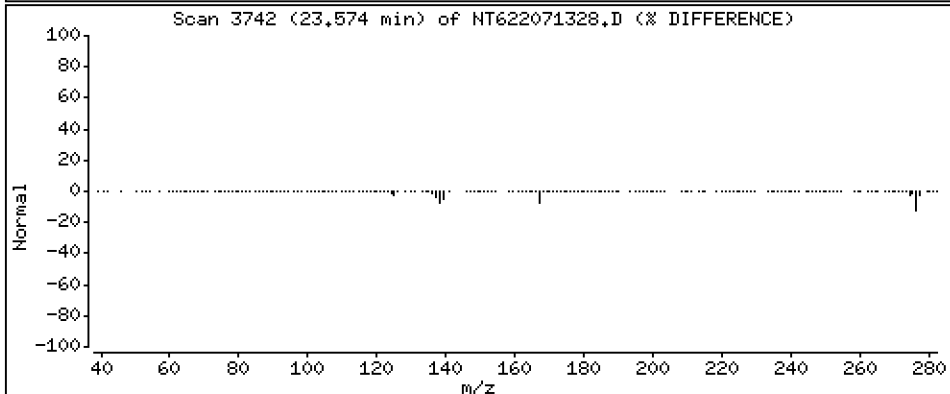
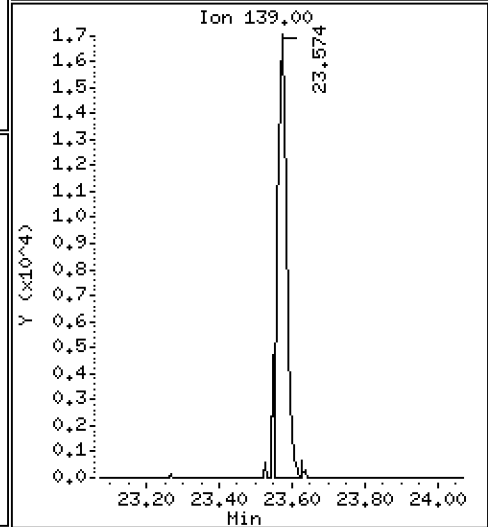
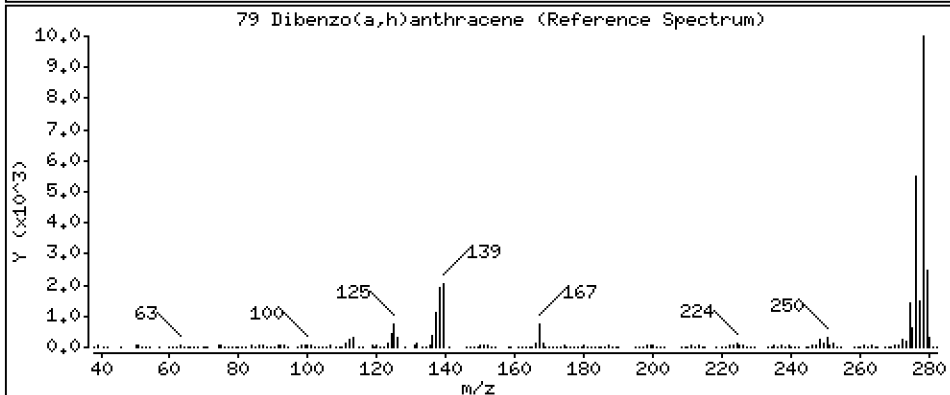
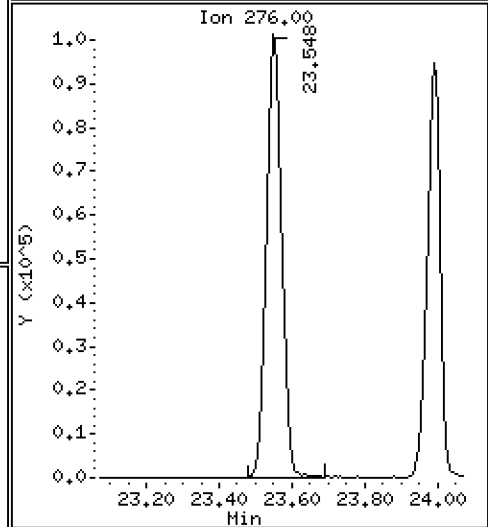
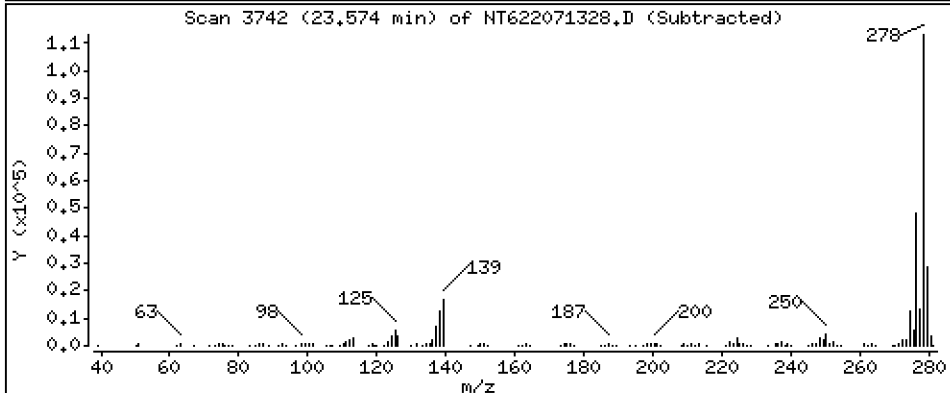
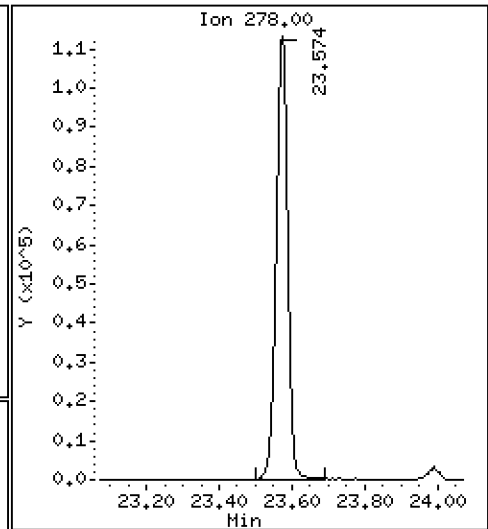
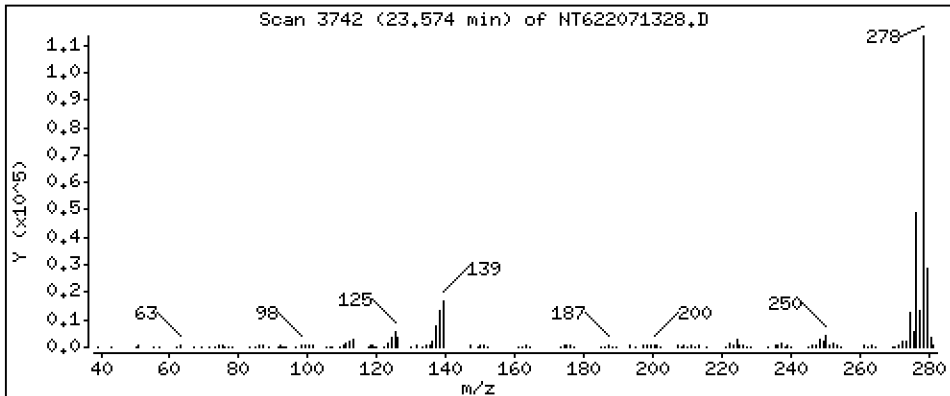
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

79 Dibenzo(a,h)anthracene

Concentration: 21,27 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

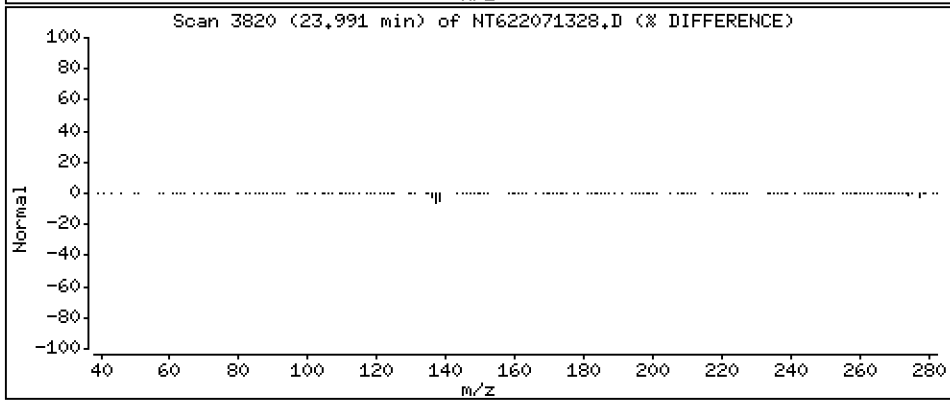
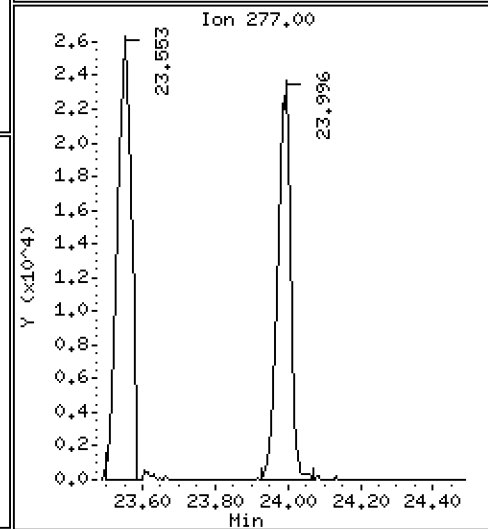
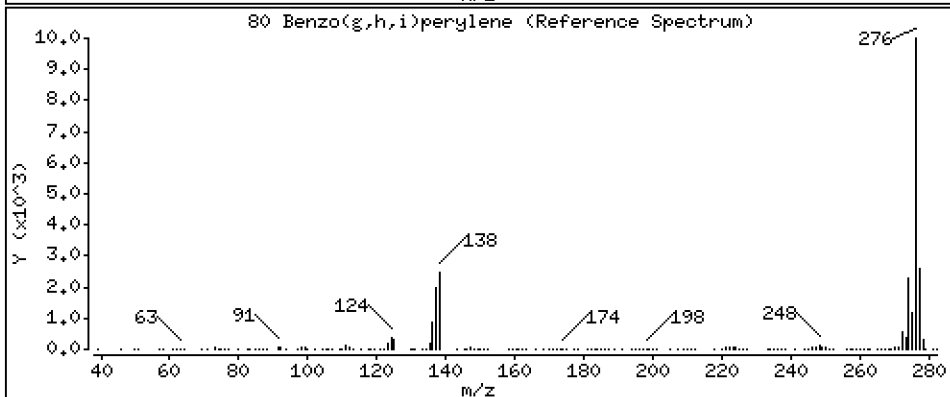
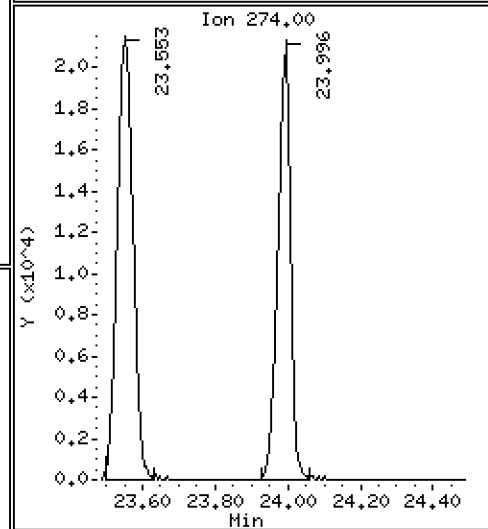
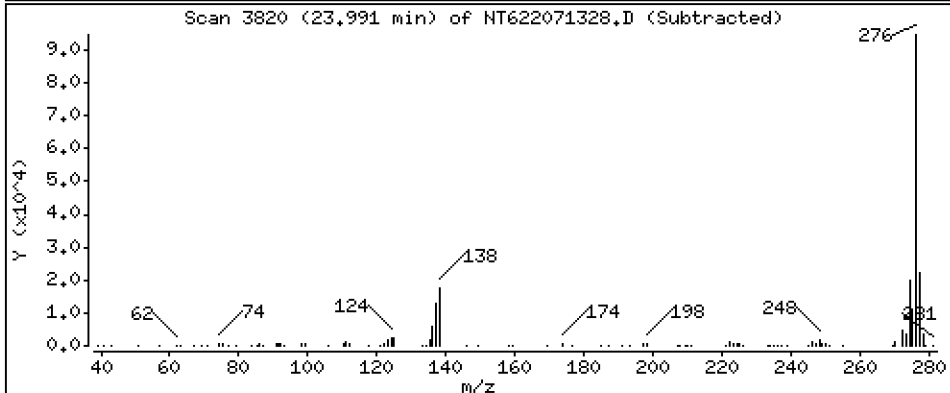
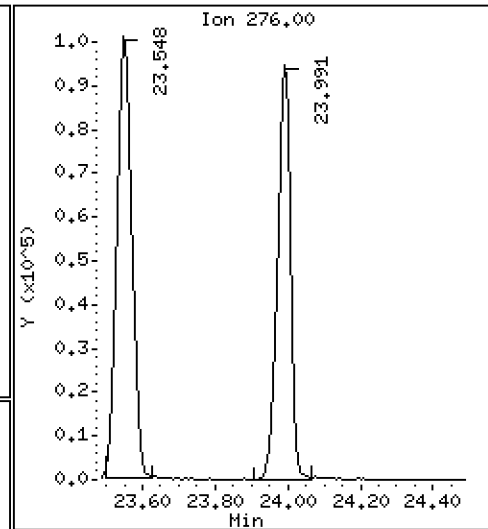
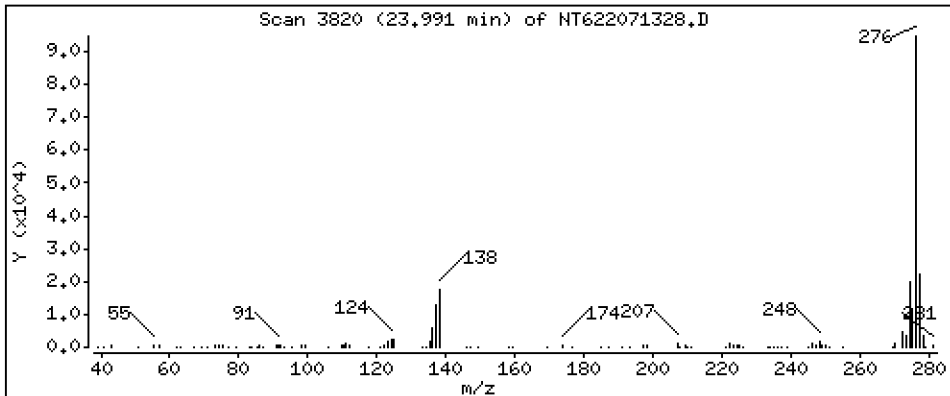
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

80 Benzo(g,h,i)perylene

Concentration: 19.53 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

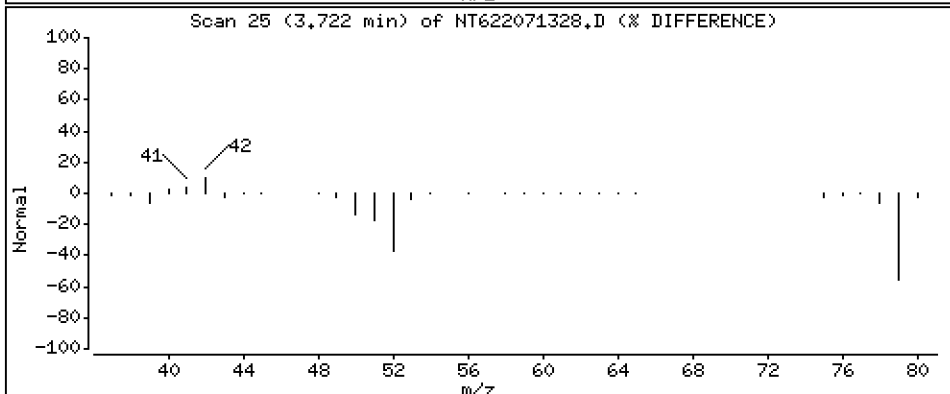
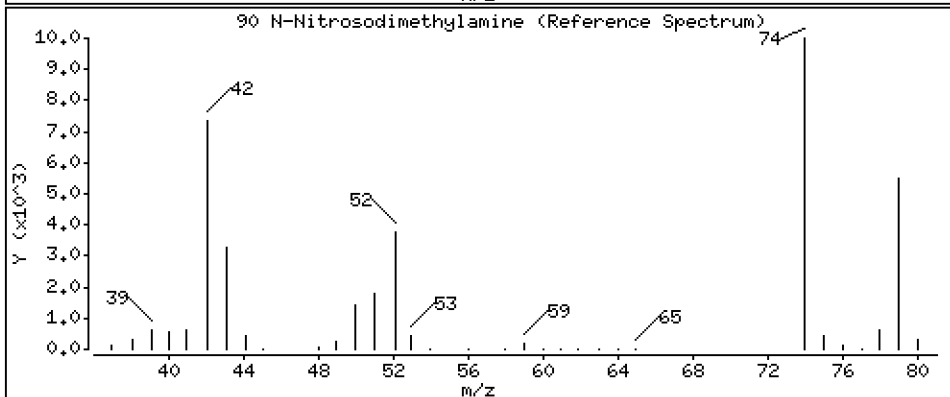
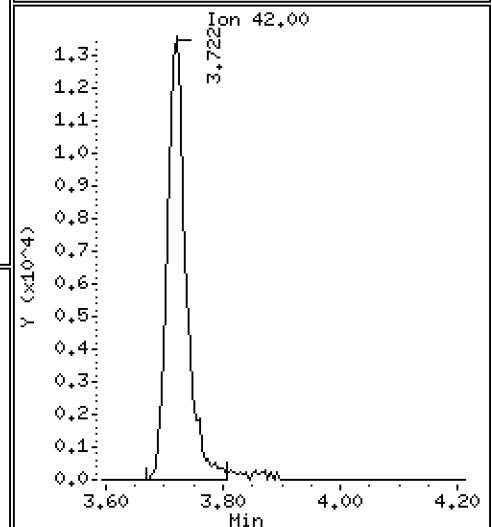
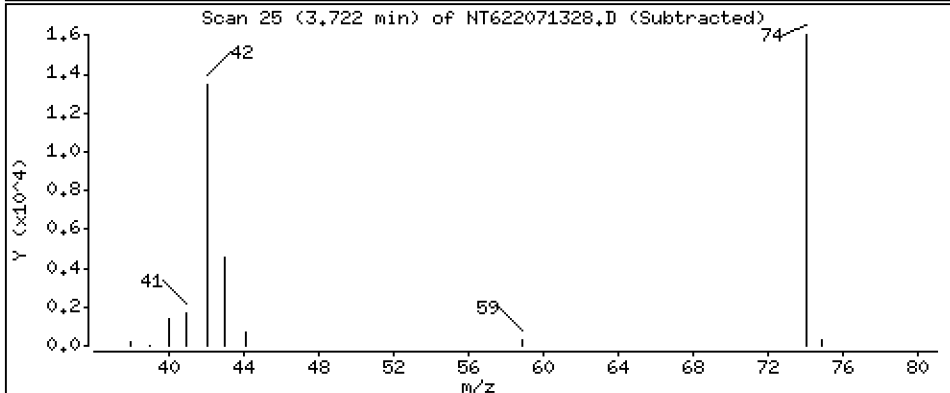
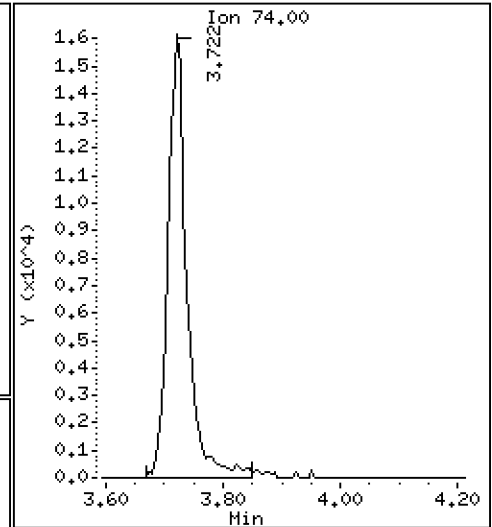
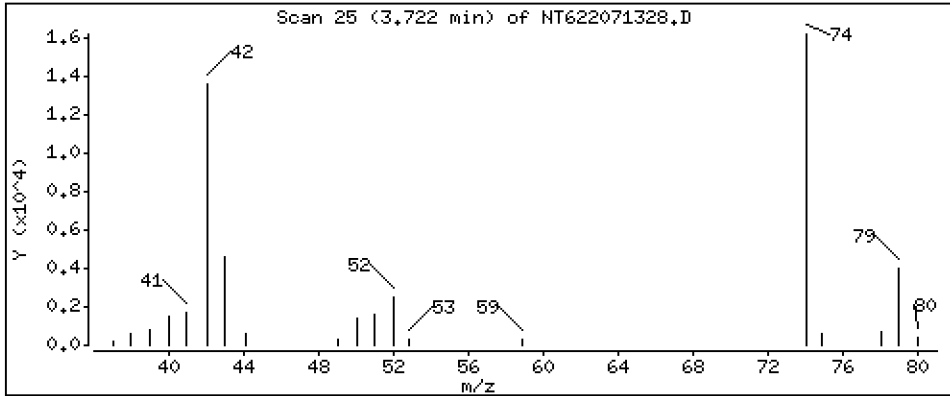
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

90 N-Nitrosodimethylamine

Concentration: 27.98 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

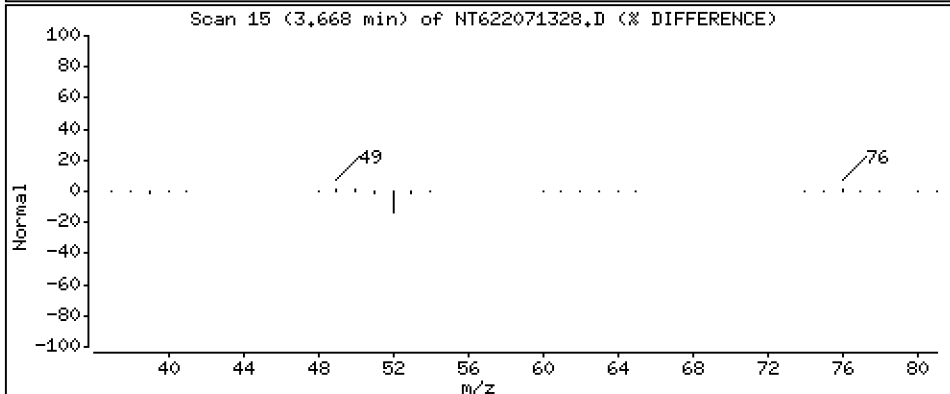
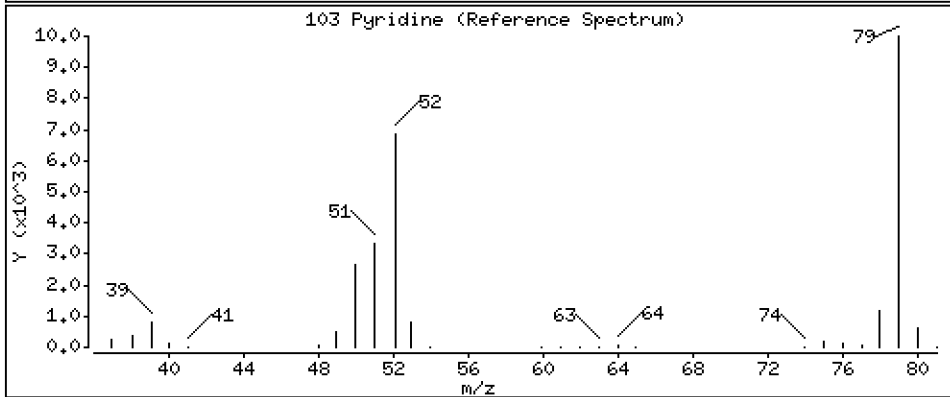
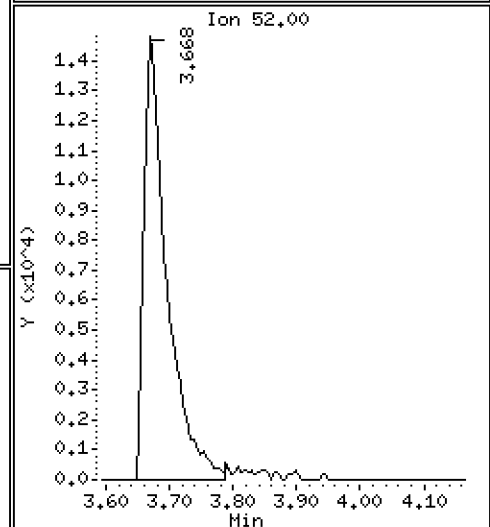
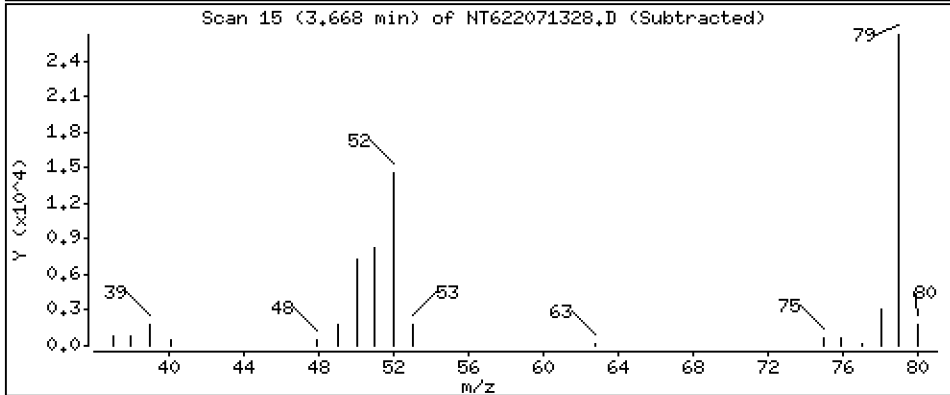
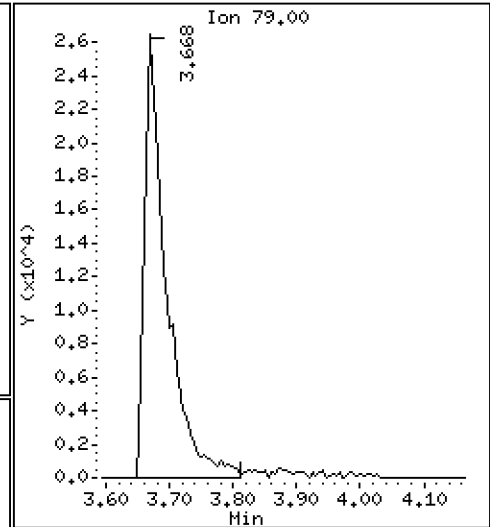
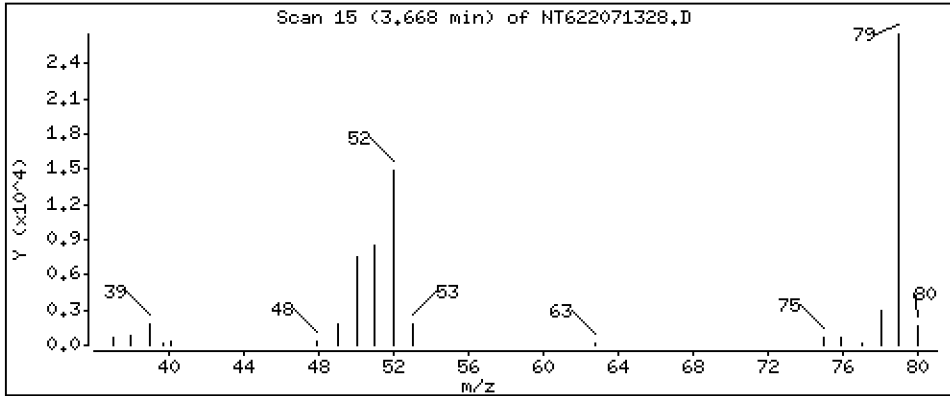
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

103 Pyridine

Concentration: 25.92 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

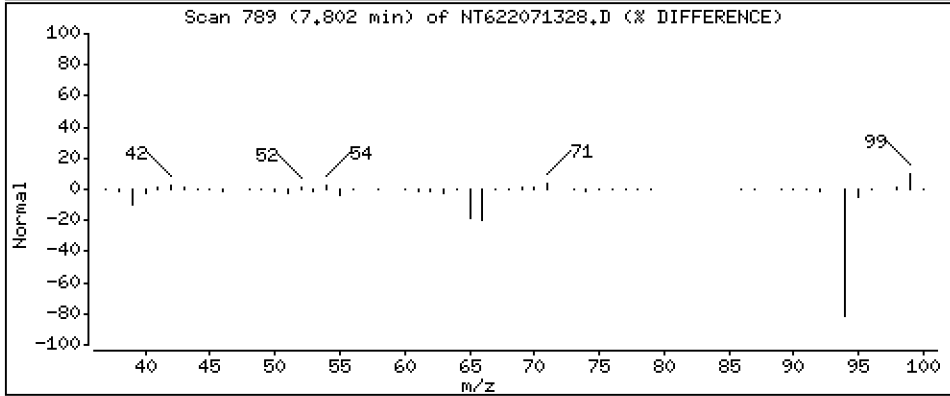
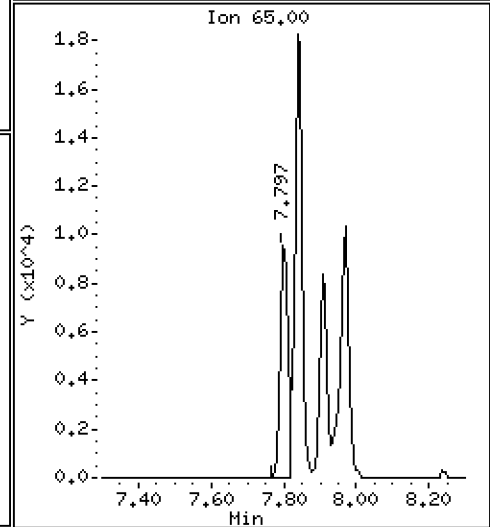
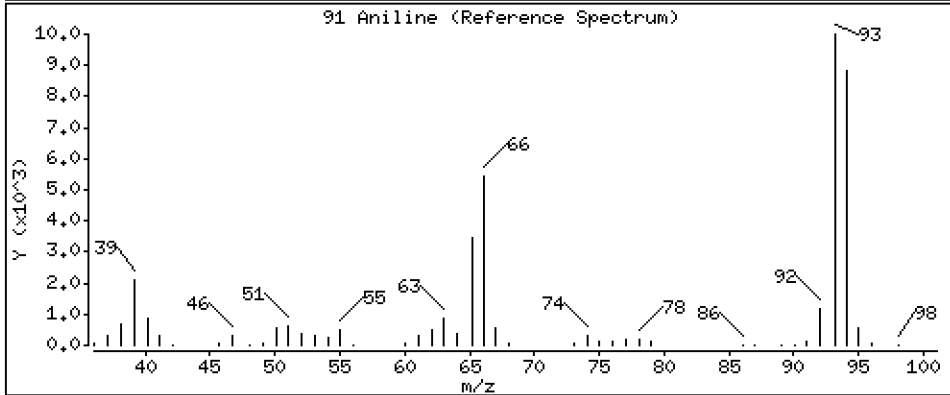
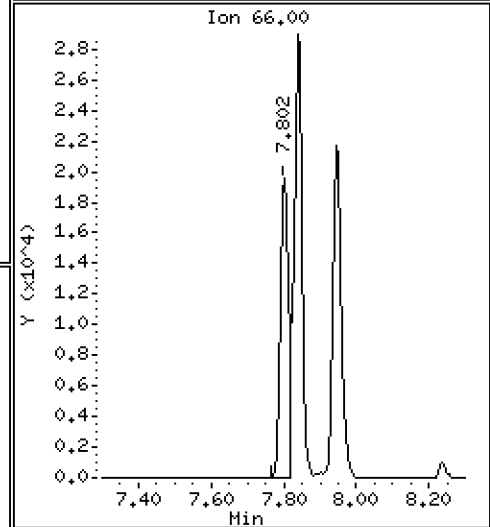
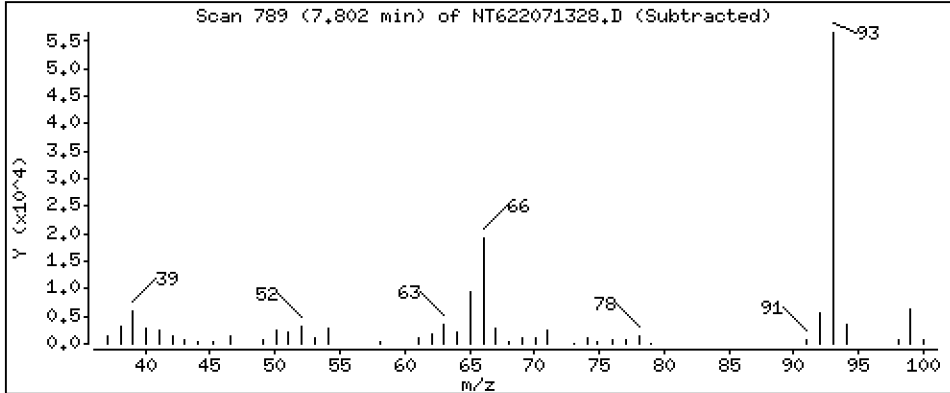
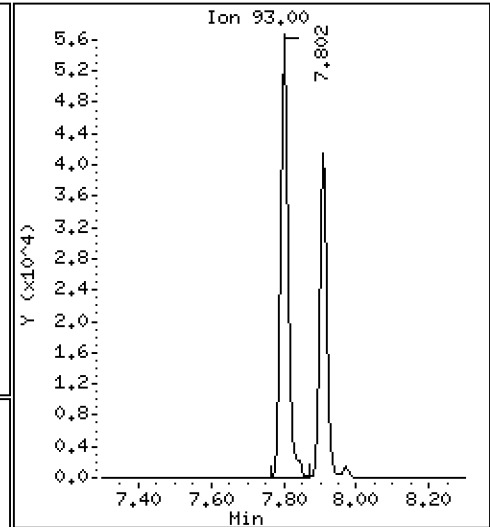
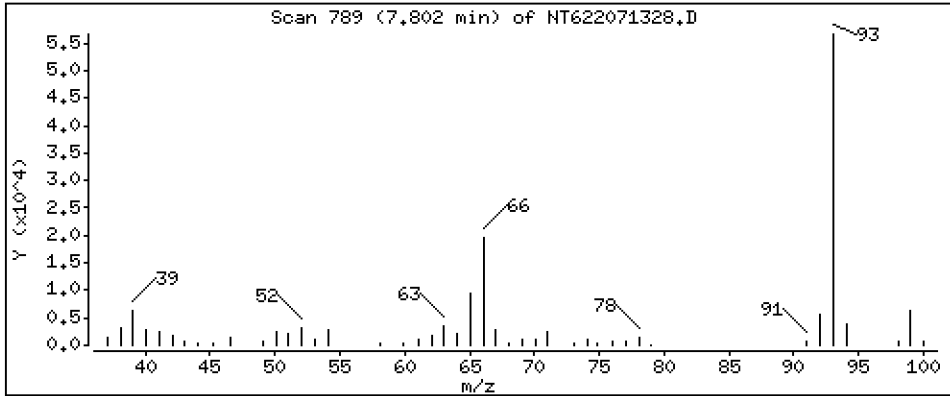
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

91 Aniline

Concentration: 21.76 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

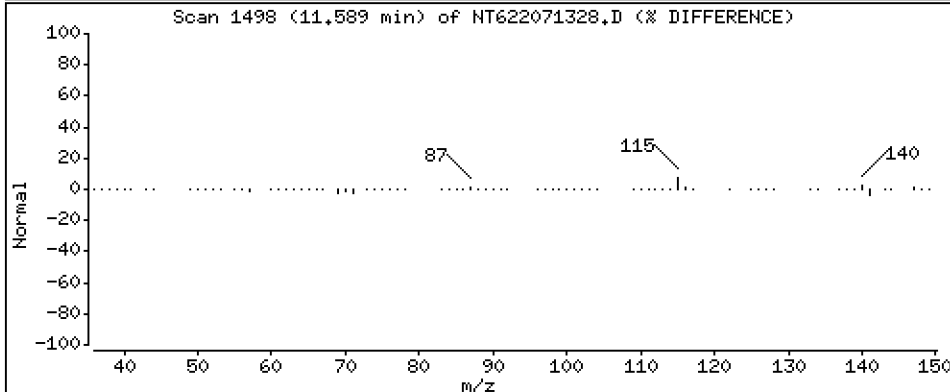
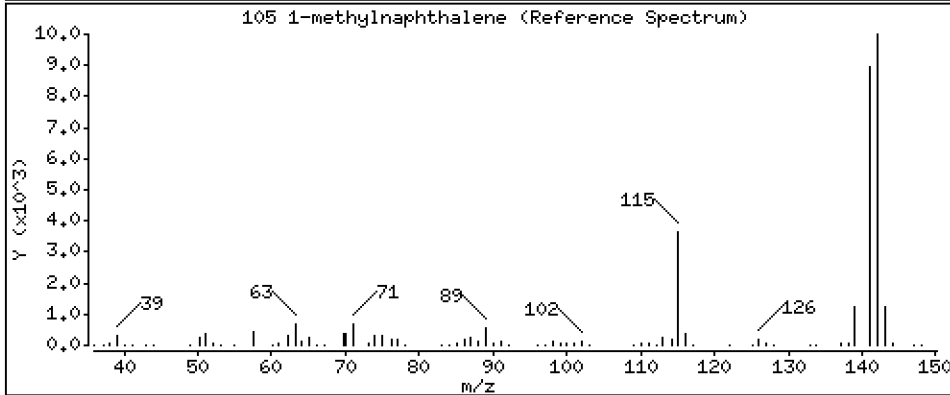
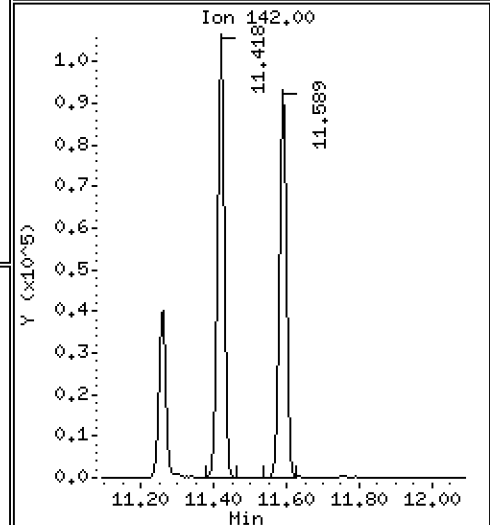
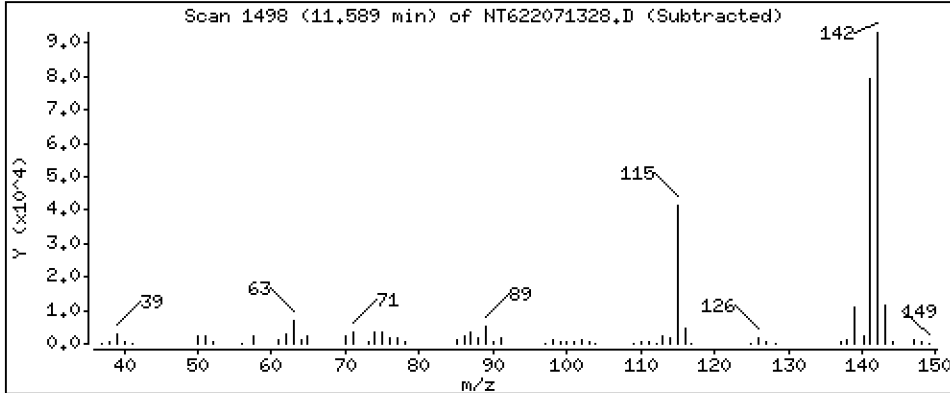
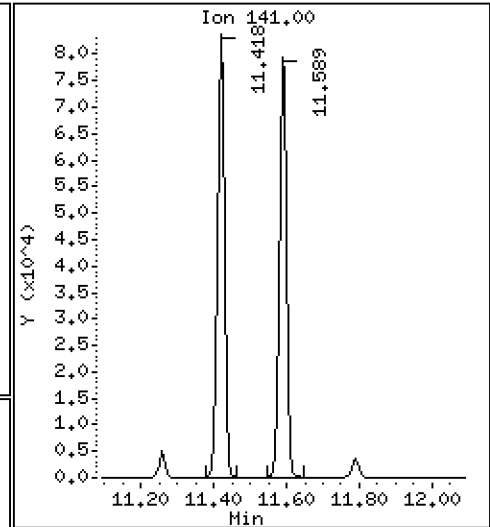
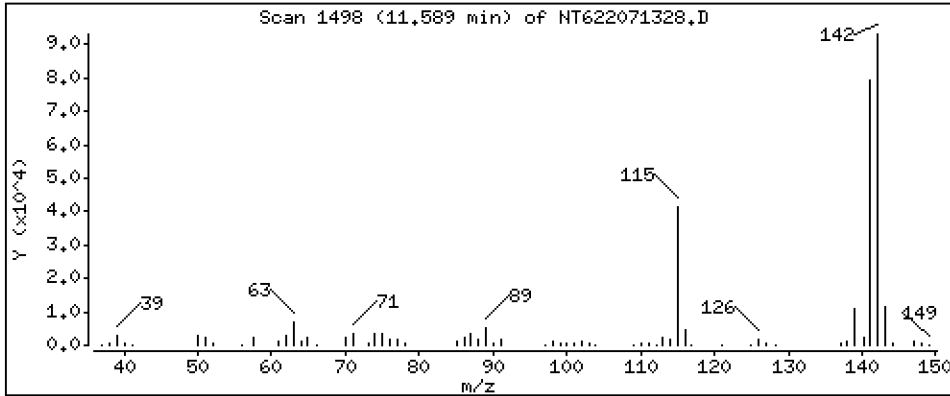
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

105 1-methylnaphthalene

Concentration: 25.99 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

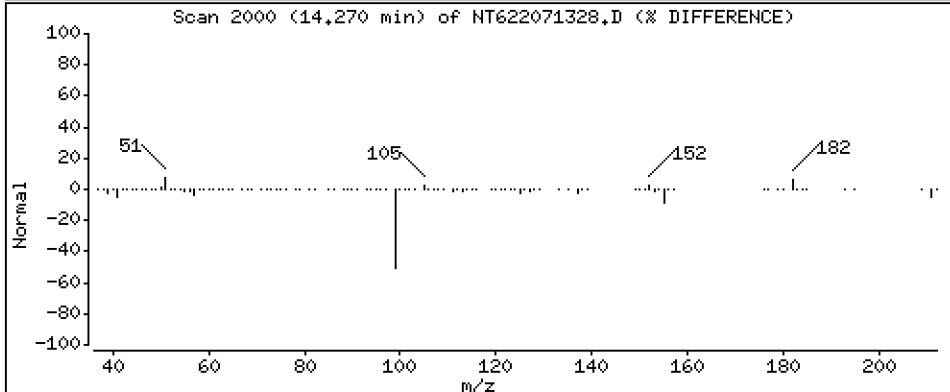
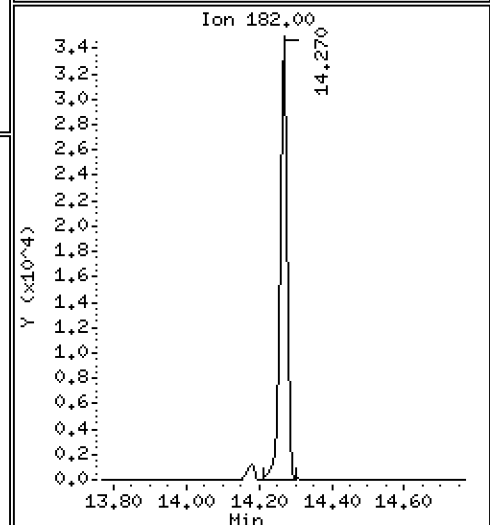
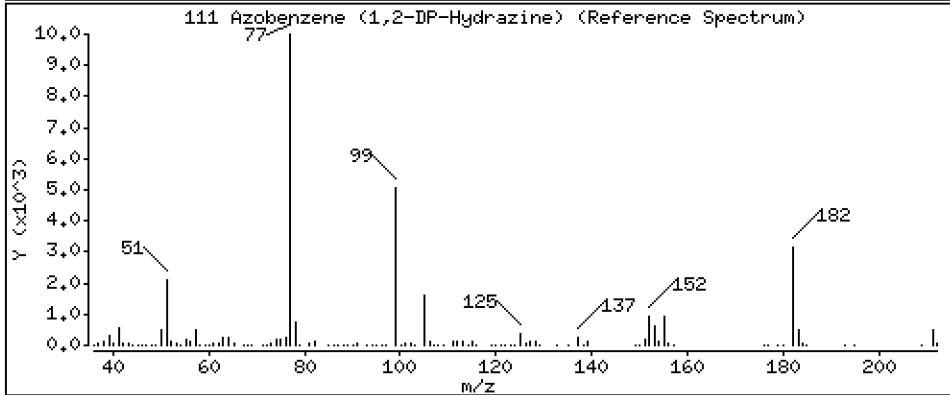
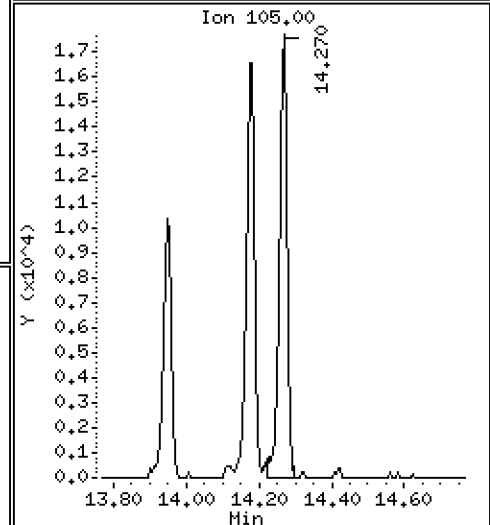
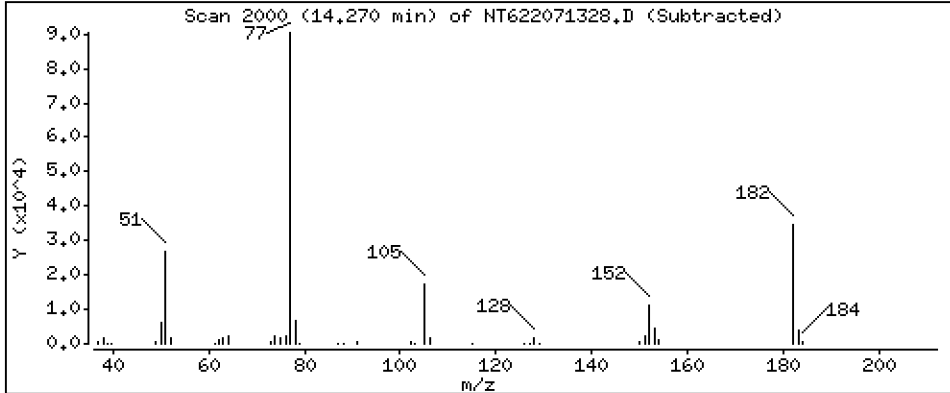
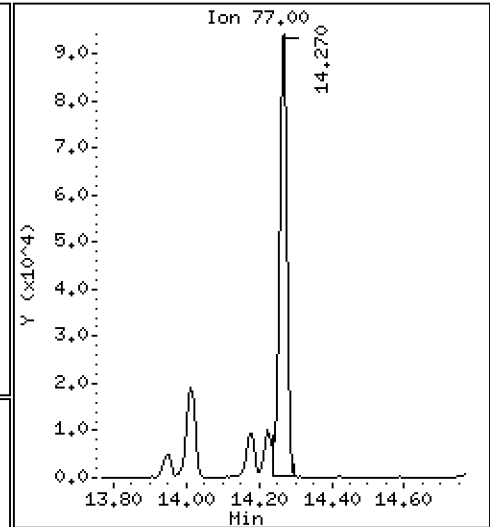
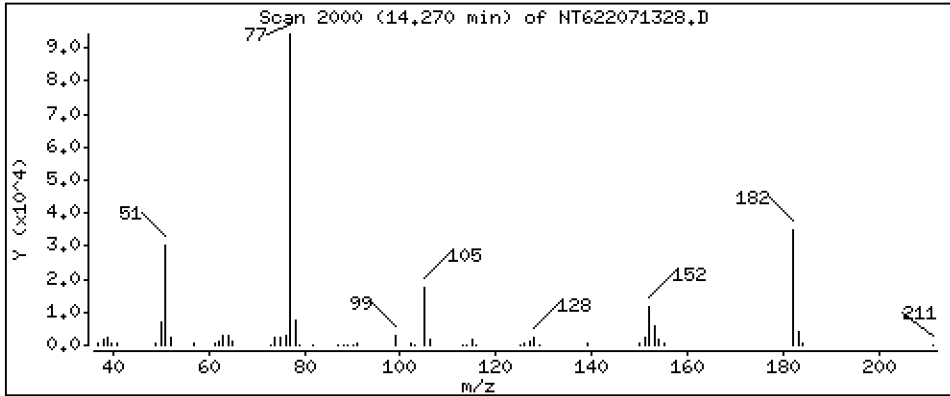
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 21.64 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

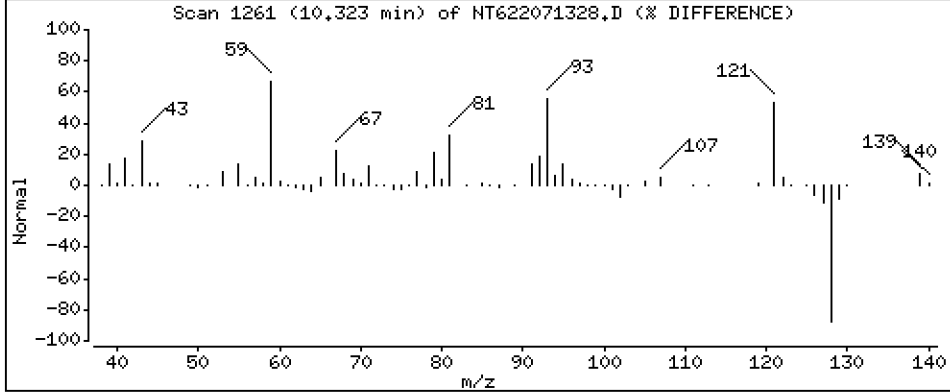
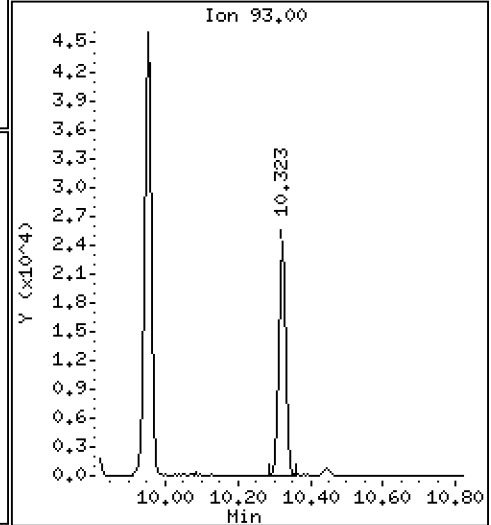
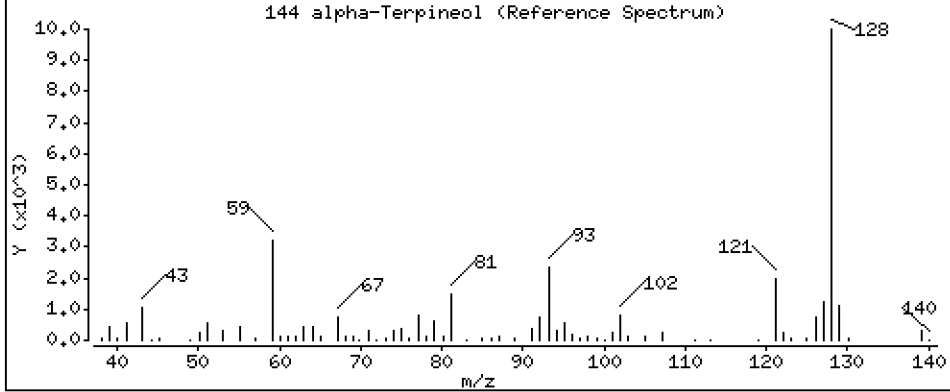
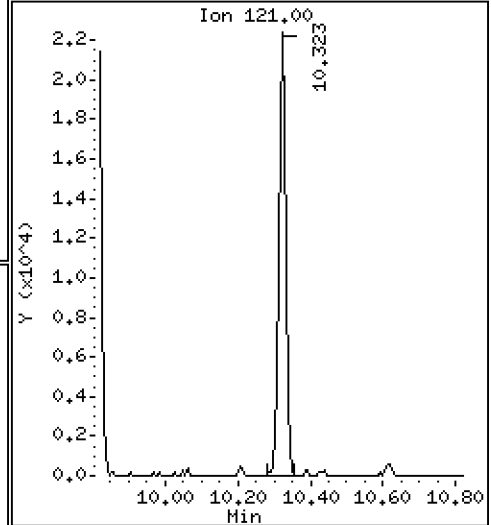
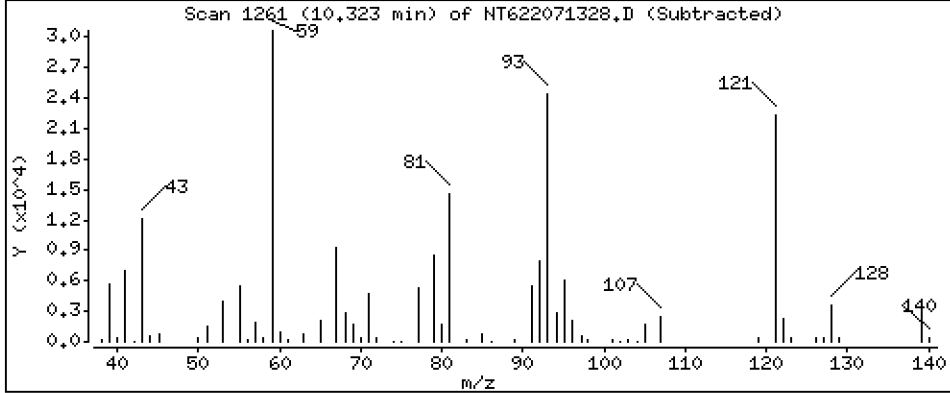
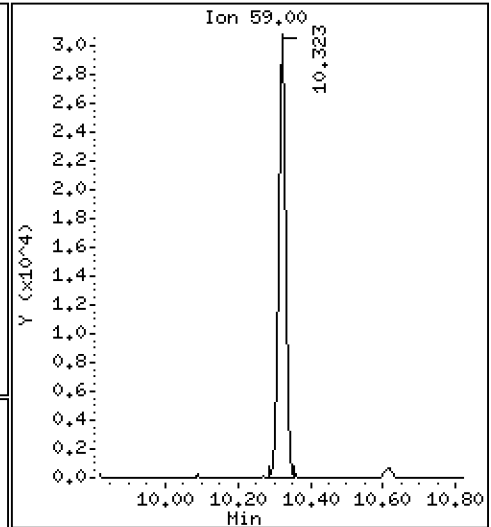
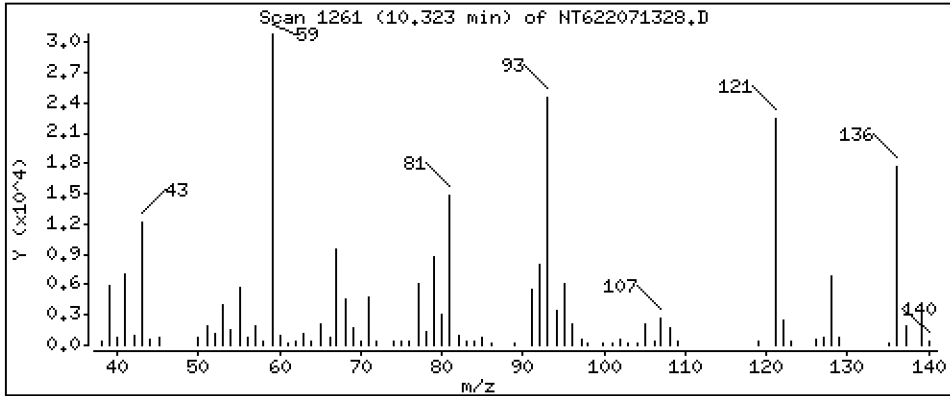
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

144 alpha-Terpineol

Concentration: 25.87 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

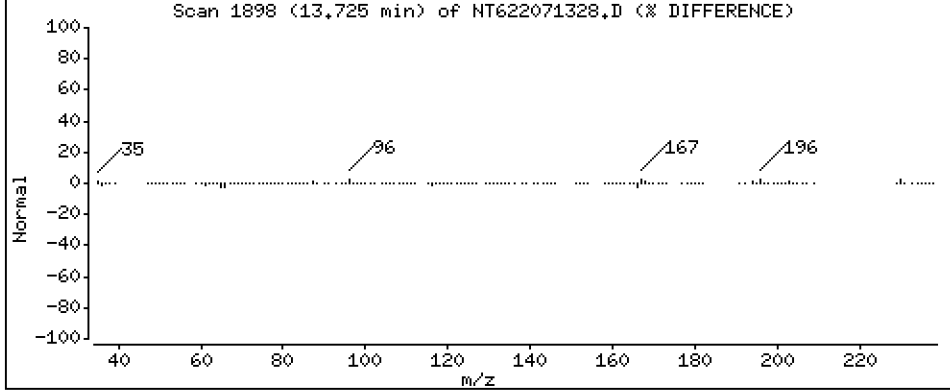
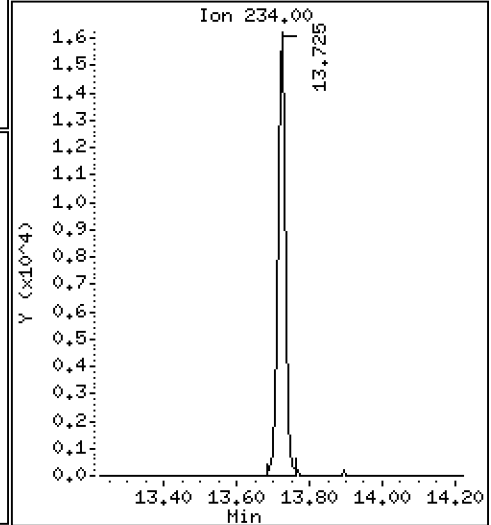
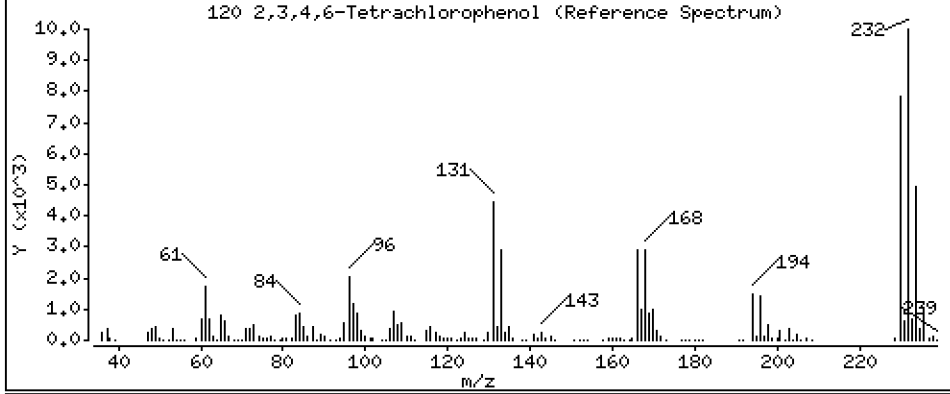
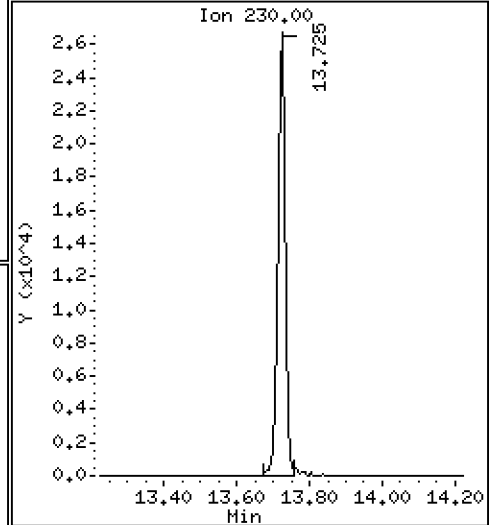
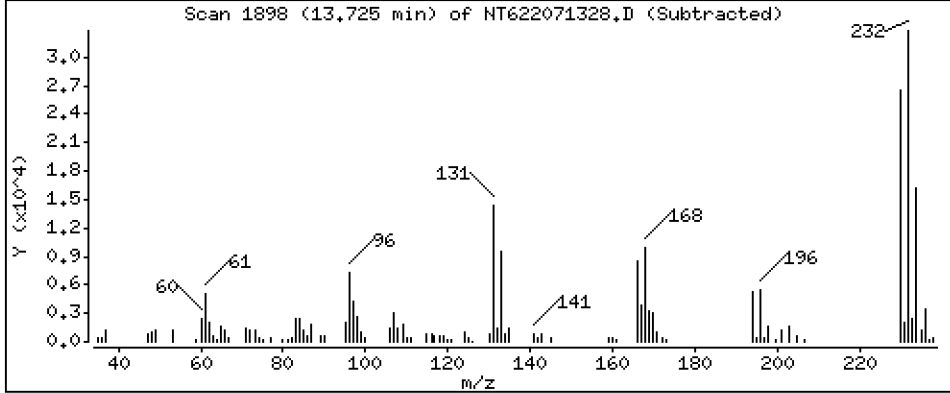
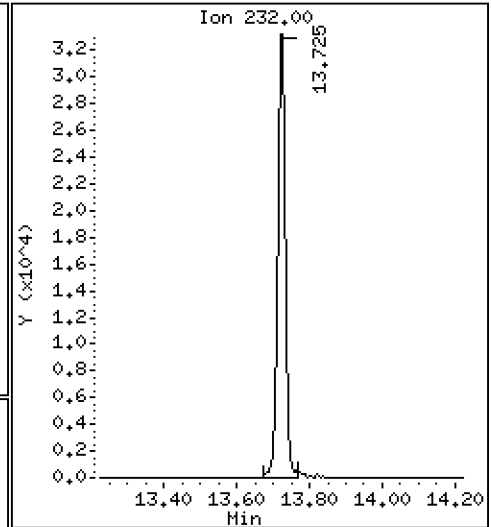
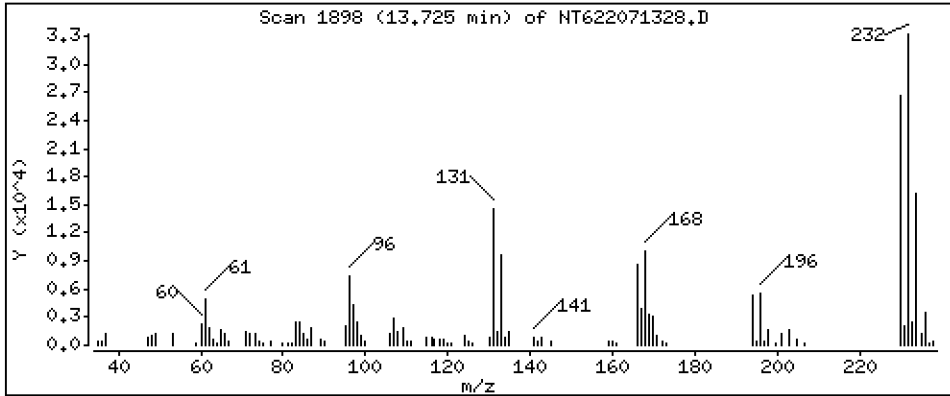
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

120 2,3,4,6-Tetrachlorophenol

Concentration: 25.63 ug/mL



Date : 14-JUL-2022 02:02

Client ID:

Instrument: nt6.i

Sample Info: CCV220713A

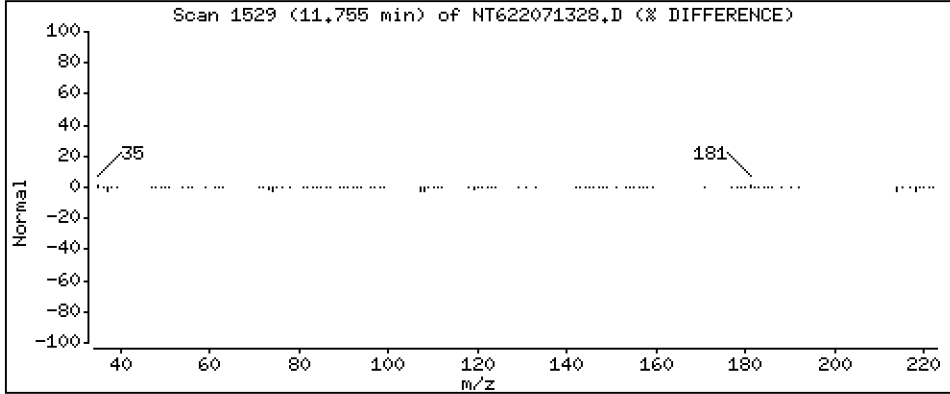
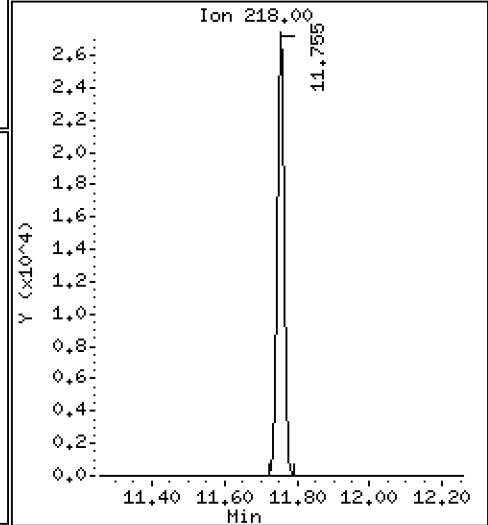
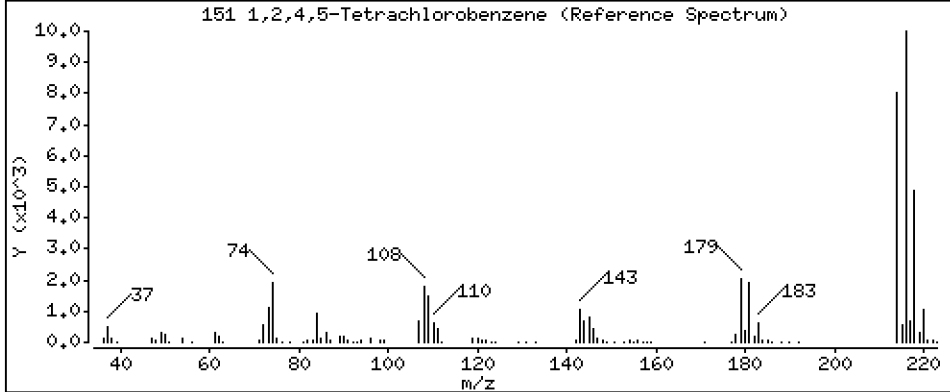
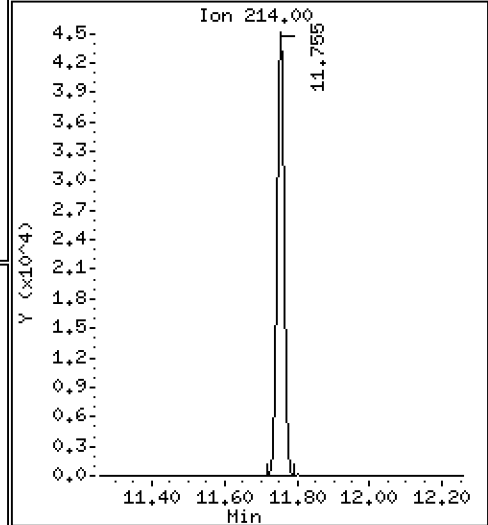
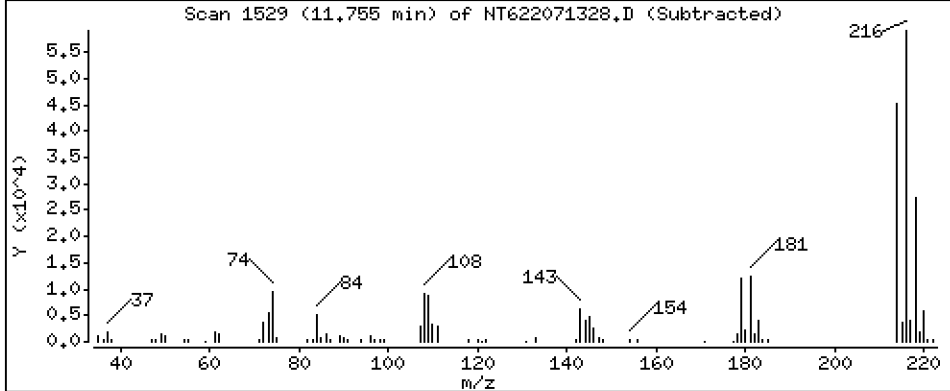
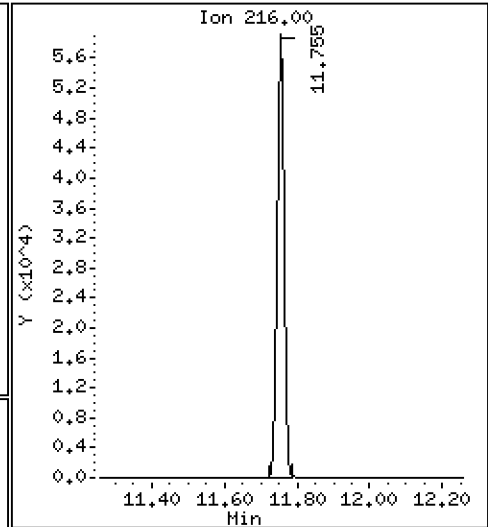
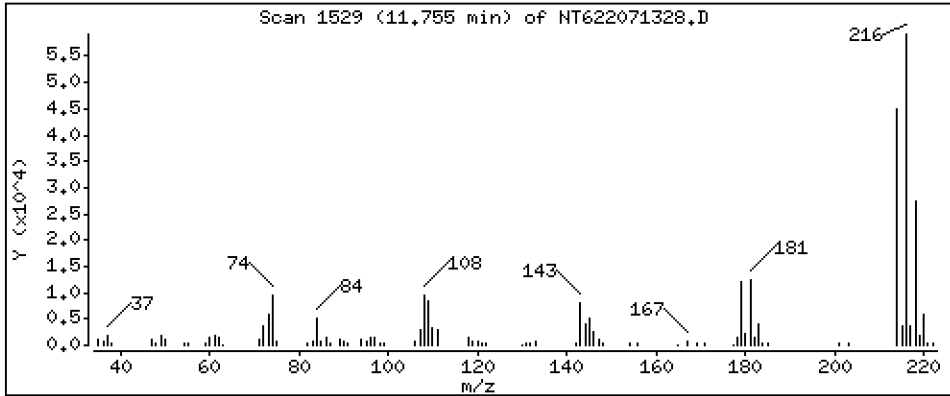
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

151 1,2,4,5-Tetrachlorobenzene

Concentration: 22.96 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220713A.b\NT622071328.D
 Lab Smp Id: SKG0132-CCV1
 Inj Date : 14-JUL-2022 02:02
 Operator : JZ Inst ID: nt6.i
 Smp Info : CCV220713A
 Misc Info : 22-
 Comment : Iul Injection
 Method : \\target\share\chem3\nt6.i\20220713A.b\SW84620220516.m
 Meth Date : 14-Jul-2022 10:53 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 21
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALB.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.312	6.309	(0.767)	116994	42.0815	42.08
\$ 2 Phenol-d5	99		7.823	7.826	(0.950)	134410	42.2631	42.26
3 Phenol	94		7.844	7.842	(0.953)	83259	22.5240	22.52
\$ 5 2-Chlorophenol-d4	132		7.946	7.949	(0.965)	124315	43.2474	43.25
4 Bis(2-Chloroethyl)ether	93		7.909	7.906	(0.960)	55657	24.9515	24.95
6 2-Chlorophenol	128		7.973	7.970	(0.968)	75190	24.9127	24.91
7 1,3-Dichlorobenzene	146		8.176	8.173	(0.993)	77010	24.5586	24.56
* 8 1,4-Dichlorobenzene-d4	152		8.234	8.237	(1.000)	51437	20.0000	
9 1,4-Dichlorobenzene	146		8.261	8.259	(1.003)	75505	24.6839	24.68
\$ 10 1,2-Dichlorobenzene-d4	152		8.533	8.531	(1.036)	57198	27.8041	27.80
12 1,2-Dichlorobenzene	146		8.555	8.553	(1.039)	71469	24.6066	24.61
11 Benzyl alcohol	108		8.523	8.521	(1.035)	44091	25.5387	25.54
14 2,2'-oxybis(1-Chloropropane)	45		8.768	8.766	(1.065)	42186	24.6340	24.63
13 2-Methylphenol	108		8.758	8.756	(1.064)	62387	24.9188	24.92
17 Hexachloroethane	117		9.041	9.039	(1.098)	31531	25.5604	25.56
16 N-Nitroso-di-n-propylamine	70		8.987	8.985	(1.091)	44622	26.6829	26.68
15 4-Methylphenol	108		8.987	8.985	(1.091)	68508	25.6538	25.65
\$ 18 Nitrobenzene-d5	82		9.164	9.161	(0.892)	81393	28.6377	28.64
19 Nitrobenzene	77		9.190	9.194	(0.895)	66050	24.4717	24.47
20 Isophorone	82		9.564	9.567	(0.931)	90391	26.4169	26.42
21 2-Nitrophenol	139		9.703	9.706	(0.945)	41894	25.0860	25.09
22 2,4-Dimethylphenol	107		9.815	9.813	(0.956)	78522	25.0083	25.01
23 Bis(2-Chloroethoxy)methane	93		9.954	9.952	(0.969)	59475	24.3510	24.35
24 Benzoic acid	105		10.088	10.080	(0.982)	136933	68.3345	68.33
25 2,4-Dichlorophenol	162		10.093	10.091	(0.983)	63871	24.9654	24.97
26 1,2,4-Trichlorobenzene	180		10.211	10.214	(0.994)	71885	24.6593	24.66
* 27 Naphthalene-d8	136		10.269	10.272	(1.000)	185087	20.0000	
28 Naphthalene	128		10.301	10.304	(1.003)	191058	24.5592	24.56
29 4-Chloroaniline	127		10.446	10.449	(1.017)	75401	23.5823	23.58
30 Hexachlorobutadiene	225		10.611	10.614	(1.033)	48916	26.0077	26.01
31 4-Chloro-3-methylphenol	107		11.257	11.261	(1.096)	68289	26.5020	26.50
32 2-Methylnaphthalene	141		11.418	11.415	(1.112)	113085	25.4566	25.46
33 Hexachlorocyclopentadiene	237		11.792	11.795	(0.898)	40140	17.6872	17.69

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		11.936	11.934	(0.909)	53852	22.9838	22.98	
35 2,4,5-Trichlorophenol	196		12.000	11.998	(0.914)	55187	22.1186	22.12	
\$ 36 2-Fluorobiphenyl	172		12.059	12.056	(0.919)	197802	25.9147	25.91	
37 2-Chloronaphthalene	162		12.197	12.195	(0.929)	135694	22.3306	22.33	
38 2-Nitroaniline	65		12.432	12.436	(0.947)	36497	23.7594	23.76	
39 Dimethylphthalate	163		12.801	12.799	(0.975)	164883	24.7948	24.79	
40 Acenaphthylene	152		12.876	12.874	(0.981)	228282	23.1699	23.17	
41 2,6-Dinitrotoluene	165		12.897	12.895	(0.983)	37198	24.5387	24.54	
* 42 Acenaphthene-d10	164		13.127	13.125	(1.000)	125470	20.0000		
43 3-Nitroaniline	138		13.116	13.114	(0.999)	37055	25.0319	25.03	
44 Acenaphthene	153		13.175	13.178	(1.004)	133444	22.8441	22.84	
45 2,4-Dinitrophenol	184		13.276	13.274	(1.011)	41121	44.9028	44.90	
46 Dibenzofuran	168		13.437	13.434	(1.024)	203858	24.1481	24.15	
47 4-Nitrophenol	109		13.442	13.445	(1.024)	31798	29.7206	29.72	
48 2,4-Dinitrotoluene	165		13.522	13.520	(1.030)	50820	25.9764	25.98	
50 Diethylphthalate	149		13.949	13.947	(1.063)	166462	25.9151	25.92	
49 Fluorene	166		13.992	13.995	(1.066)	163933	24.2752	24.28	
51 4-Chlorophenyl-phenylether	204		14.013	14.017	(1.068)	91772	24.2167	24.22	
52 4-Nitroaniline	138		14.115	14.113	(1.075)	34416	25.7082	25.71	
53 4,6-Dinitro-2-methylphenol	198		14.179	14.177	(0.915)	68380	50.8757	50.88	
54 N-Nitrosodiphenylamine	169		14.222	14.225	(0.918)	122852	23.0895	23.09	
\$ 55 2,4,6-Tribromophenol	330		14.425	14.422	(1.099)	49312	46.1899	46.19	
56 4-Bromophenyl-phenylether	248		14.799	14.796	(0.955)	54135	23.4776	23.48	
57 Hexachlorobenzene	284		15.018	15.021	(0.969)	58164	23.1783	23.18	
58 Pentachlorophenol	266		15.322	15.320	(0.989)	36903	22.0138	22.01	
* 59 Phenanthrene-d10	188		15.498	15.501	(1.000)	245470	20.0000		
60 Phenanthrene	178		15.536	15.539	(1.002)	238804	23.6013	23.60	
61 Anthracene	178		15.610	15.608	(1.007)	230125	22.7371	22.74	
62 Carbazole	167		15.899	15.897	(1.026)	212154	24.3856	24.39	
63 Di-n-butylphthalate	149		16.598	16.596	(1.071)	279990	25.7002	25.70	
64 Fluoranthene	202		17.474	17.472	(1.127)	293384	25.6552	25.66	
65 Pyrene	202		17.832	17.830	(0.900)	293970	21.8945	21.89	
\$ 66 Terphenyl-d14	244		18.137	18.140	(0.915)	254492	25.0321	25.03	
67 Butylbenzylphthalate	149		19.018	19.016	(0.960)	125674	23.9082	23.91	
68 Benzo(a)anthracene	228		19.792	19.790	(0.999)	276442	23.3139	23.31	
* 69 Chrysene-d12	240		19.819	19.817	(1.000)	213855	20.0000		
70 3,3'-Dichlorobenzidine	252		19.803	19.801	(0.999)	96055	27.0462	27.05	
71 Chrysene	228		19.857	19.854	(1.002)	245384	22.5270	22.53	
72 bis(2-Ethylhexyl)phthalate	149		20.006	20.004	(0.956)	163070	24.5370	24.54	
* 134 Di-n-octylphthalate-d4	153		20.935	20.939	(1.000)	287272	20.0000		
73 Di-n-octylphthalate	149		20.946	20.949	(1.000)	278100	23.1956	23.20	
74 Benzo(b)fluoranthene	252		21.448	21.446	(0.976)	259113	24.8319	24.83	
75 Benzo(k)fluoranthene	252		21.486	21.483	(0.977)	261253	24.9873	24.99	
187 Total Benzofluoranthenes	252		21.486	21.483	(0.977)	493307	49.6795	49.68	
76 Benzo(a)pyrene	252		21.902	21.900	(0.996)	233570	23.8529	23.85	
* 77 Perylene-d12	264		21.982	21.980	(1.000)	211373	20.0000		
78 Indeno(1,2,3-cd)pyrene	276		23.547	23.550	(1.071)	298669	20.8671	20.87	
79 Dibenzo(a,h)anthracene	278		23.574	23.572	(1.072)	254707	21.2735	21.27	
80 Benzo(g,h,i)perylene	276		23.991	23.988	(1.091)	239774	19.5317	19.53	
90 N-Nitrosodimethylamine	74		3.721	3.714	(0.452)	36311	27.9754	27.98	
103 Pyridine	79		3.668	3.666	(0.445)	63319	25.9183	25.92	
91 Aniline	93		7.802	7.800	(0.947)	82696	21.7551	21.76	
105 1-methylnaphthalene	141		11.589	11.592	(1.128)	108960	25.9877	25.99	
111 Azobenzene (1,2-DP-Hydrazine)	77		14.270	14.268	(0.921)	135226	21.6375	21.64	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
144 alpha-Terpineol	59		10.323	10.321	(1.005)	41388	25.8657	25.87
120 2,3,4,6-Tetrachlorophenol	232		13.725	13.723	(1.046)	48890	25.6290	25.63
151 1,2,4,5-Tetrachlorobenzene	216		11.754	11.757	(0.895)	79076	22.9628	22.96

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 13-JUL-2022
 Lab File ID: NT622071328.D Calibration Time: 22:06
 Lab Smp Id: SKG0132-CCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220713A.b\SW84620220516.m
 Misc Info: 22-

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	49157	24579	98314	51437	4.64
27 Naphthalene-d8	173237	86619	346474	185087	6.84
42 Acenaphthene-d10	116765	58383	233530	125470	7.46
59 Phenanthrene-d10	233112	116556	466224	245470	5.30
69 Chrysene-d12	196434	98217	392868	213855	8.87
134 Di-n-octylphthala	268008	134004	536016	287272	7.19
77 Perylene-d12	200282	100141	400564	211373	5.54

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.24	7.74	8.74	8.23	-0.04
27 Naphthalene-d8	10.27	9.77	10.77	10.27	-0.03
42 Acenaphthene-d10	13.13	12.63	13.63	13.13	0.02
59 Phenanthrene-d10	15.50	15.00	16.00	15.50	-0.02
69 Chrysene-d12	19.82	19.32	20.32	19.82	0.01
134 Di-n-octylphthala	20.94	20.44	21.44	20.94	-0.01
77 Perylene-d12	21.98	21.48	22.48	21.98	0.01

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

REVIEW SUMMARY FOR FILE - NT622071328.D

Lab ID: SKG0132-CCV1
nt6.i, SW84620220516.m, 14-JUL-2022 02:02

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICALB.sub = 0.0100

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



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT6

Calibration: FE00035

Lab File ID: NT622071509.D

Calibration Date: 05/16/2022

Sequence: SKG0144

Injection Date: 07/15/22

Lab Sample ID: SKG0144-CCV1

Injection Time: 17:58

Sequence Name: Calibration Check

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Naphthalene	A	25.000	24.7	0.8406287	0.8304589		-1.2	+/-50
2-Methylnaphthalene	A	25.000	25.4	0.4800184	0.4868702		1.4	+/-50
Acenaphthene	A	25.000	23.3	0.9311408	0.8668190		-6.9	+/-50
Pentachlorophenol	A	25.000	22.6	0.1365836	0.1232175		-9.8	+/-50
Phenanthrene	A	25.000	23.2	0.8243973	0.7663141		-7.0	+/-50
Fluoranthene	A	25.000	25.1	0.9317361	0.9348820		0.3	+/-50
Benzo(a)anthracene	A	25.000	23.3	1.1089200	1.0333420		-6.8	+/-50
Chrysene	A	25.000	23.2	1.0187150	0.9444246		-7.3	+/-50
Benzo(b)fluoranthene	A	25.000	24.2	0.9873224	0.9549178		-3.3	+/-50
Benzo(k)fluoranthene	A	25.000	25.7	0.9892890	1.0160680		2.7	+/-50
Benzo(a)pyrene	A	25.000	23.9	0.9265235	0.8843821		-4.5	+/-50
Indeno(1,2,3-cd)pyrene	A	25.000	24.1	1.3542800	1.3036400		-3.7	+/-50
Dibenzo(a,h)anthracene	A	25.000	23.8	1.1328750	1.0778070		-4.9	+/-50
1-Methylnaphthalene	A	25.000	25.6	0.4530575	0.4647786		2.6	+/-50
2-Fluorophenol	A	37.500	41.6	1.0810010	1.1993480		10.9	+/-50
Phenol-d5	A	37.500	41.5	1.2365880	1.3692040		10.7	+/-50
2-Chlorophenol-d4	A	37.500	42.7	1.1176800	1.2729210		13.9	+/-50
1,2-Dichlorobenzene-d4	A	25.000	27.0	0.7998831	0.8624971		7.8	+/-50
Nitrobenzene-d5	A	25.000	29.3	0.3071168	0.3593436		17.0	+/-50
2-Fluorobiphenyl	A	25.000	26.5	1.2166750	1.2876390		5.8	+/-50
2,4,6-Tribromophenol	A	37.500	43.8	0.1701749	0.1986247		16.7	+/-50
p-Terphenyl-d14	A	25.000	25.4	0.9507950	0.9663807		1.6	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt6,1\20220715,6\NNT622071509.D

Date: 15-JUL-2022 17:58

Client ID:

Sample Info: CCV220715

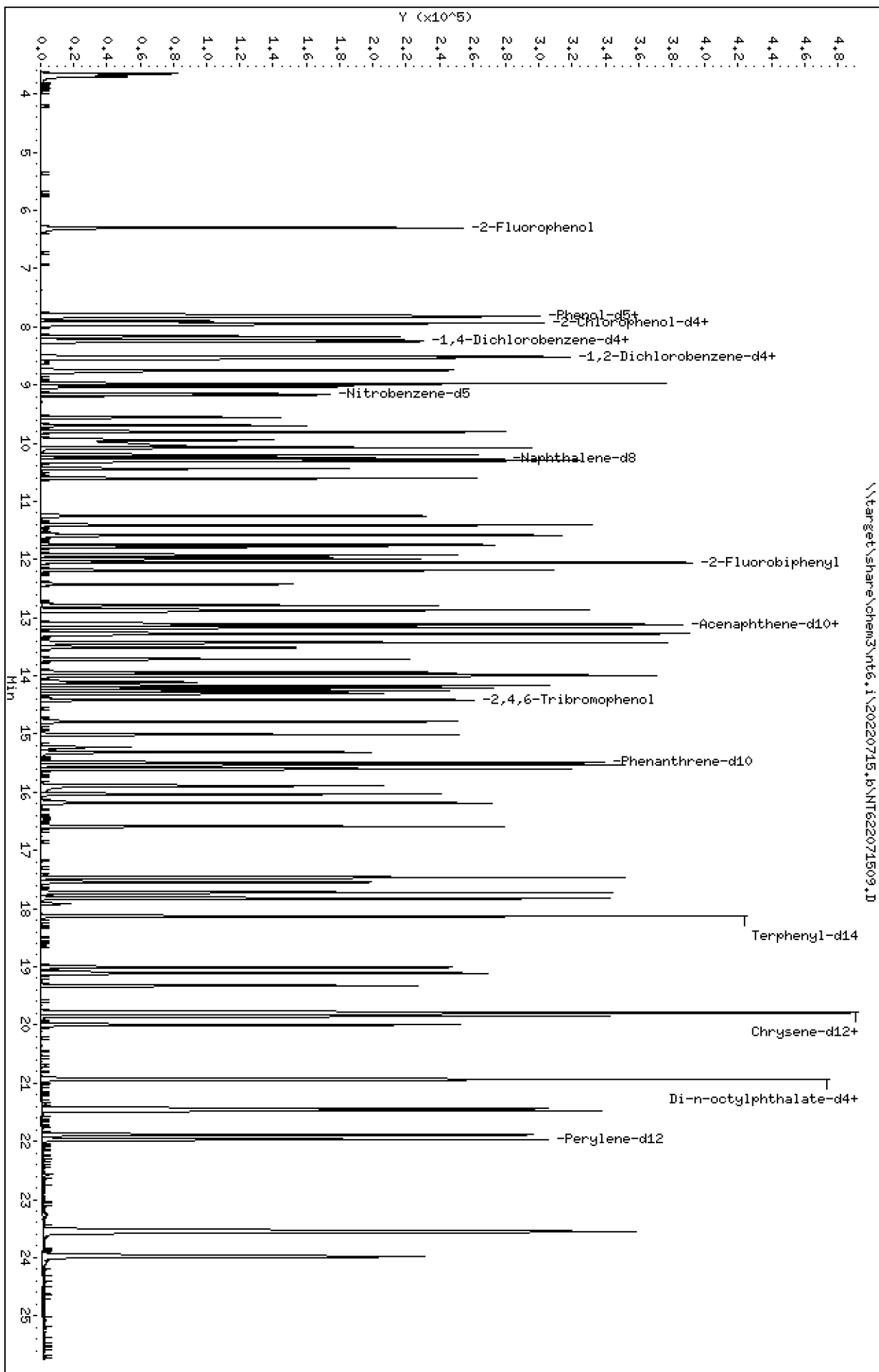
Column phase: ZB-5msi

Instrument: nt6,1

Operator: JZ

Column diameter: 0.32

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Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

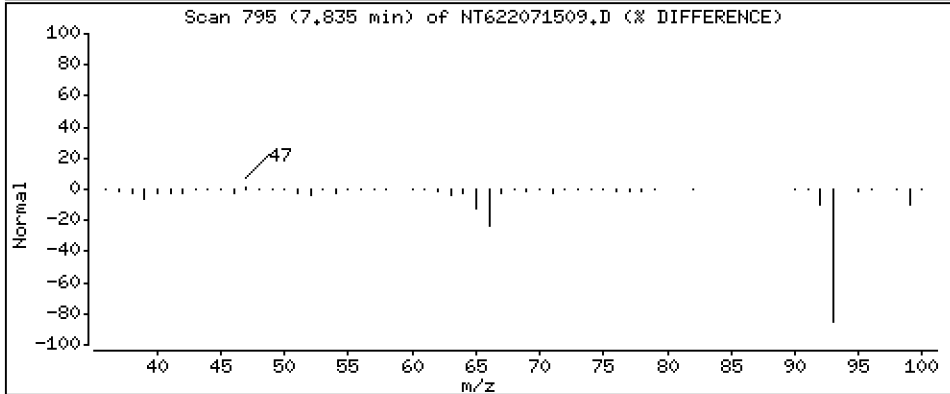
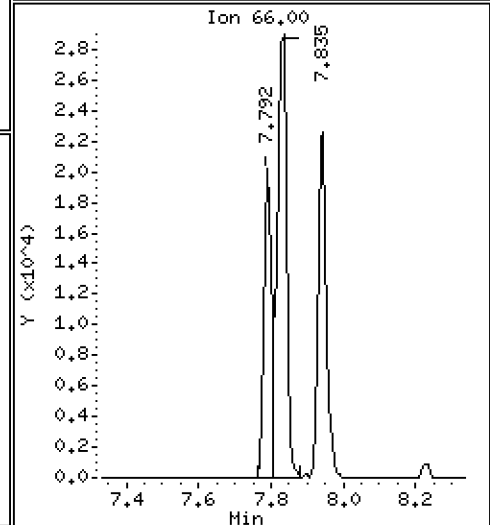
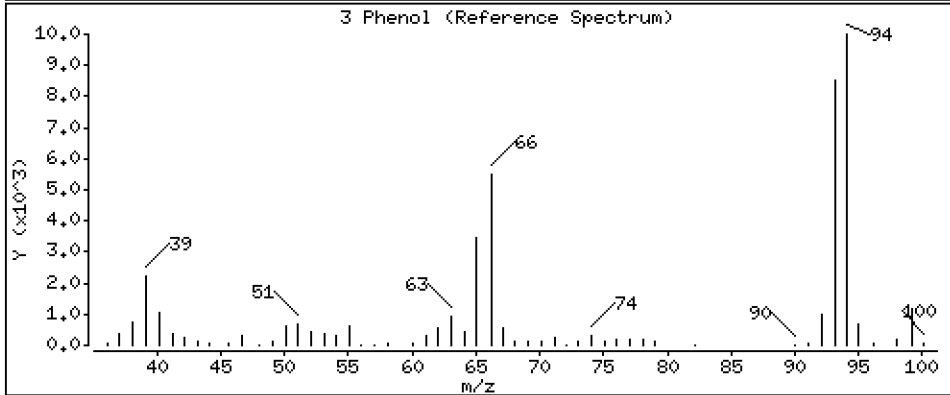
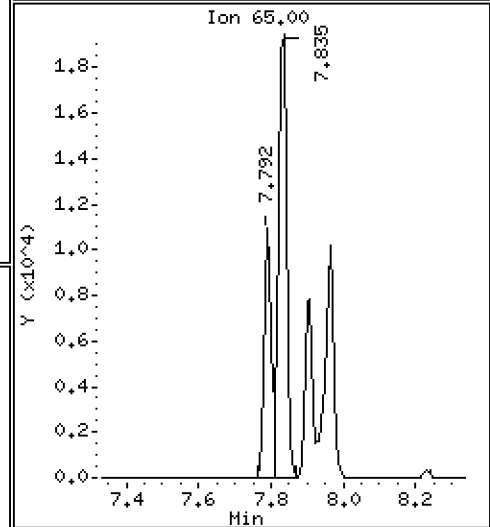
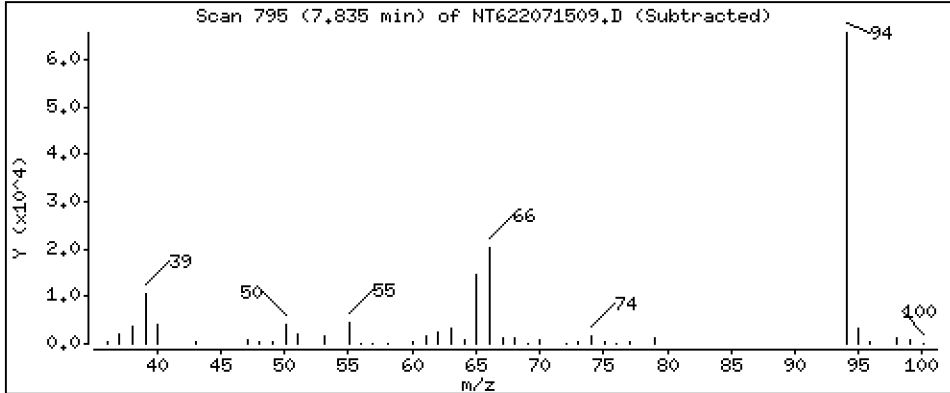
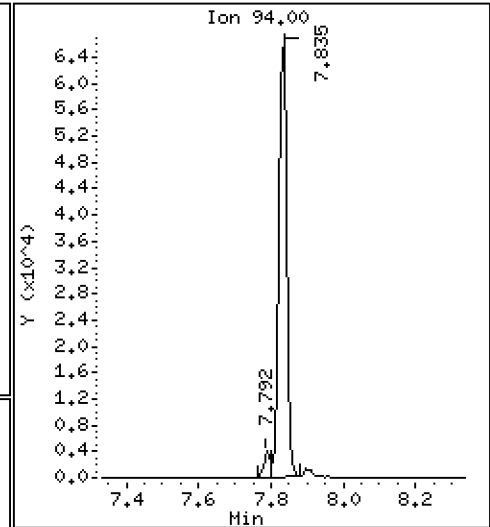
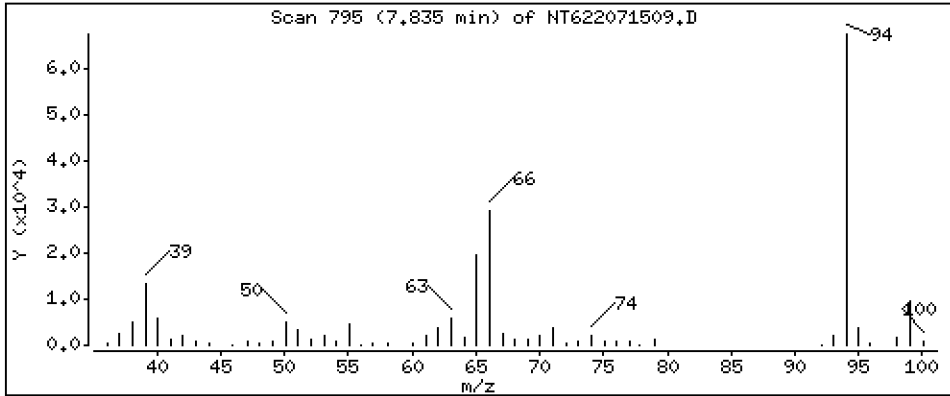
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

3 Phenol

Concentration: 22.54 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

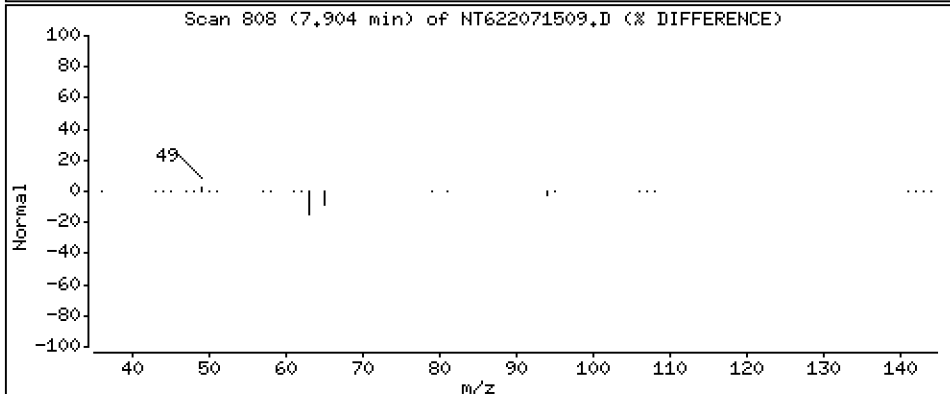
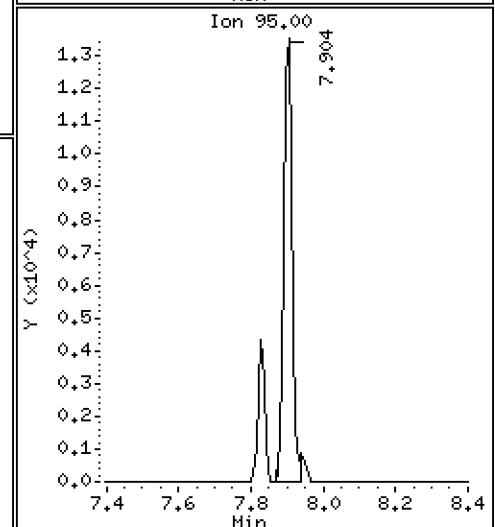
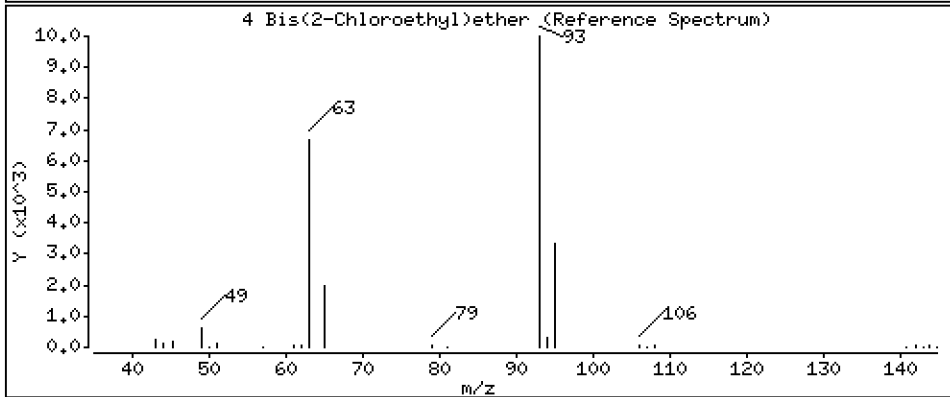
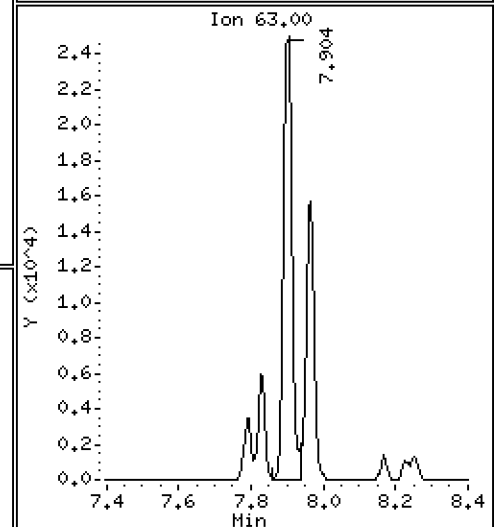
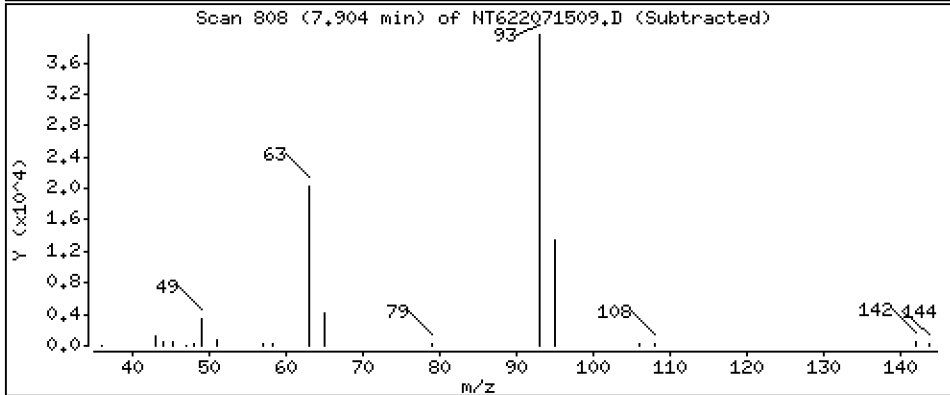
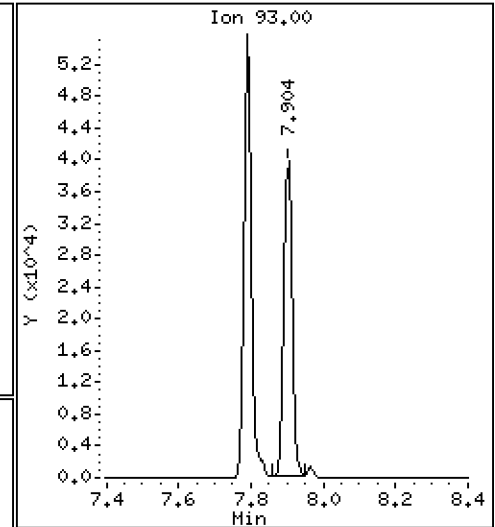
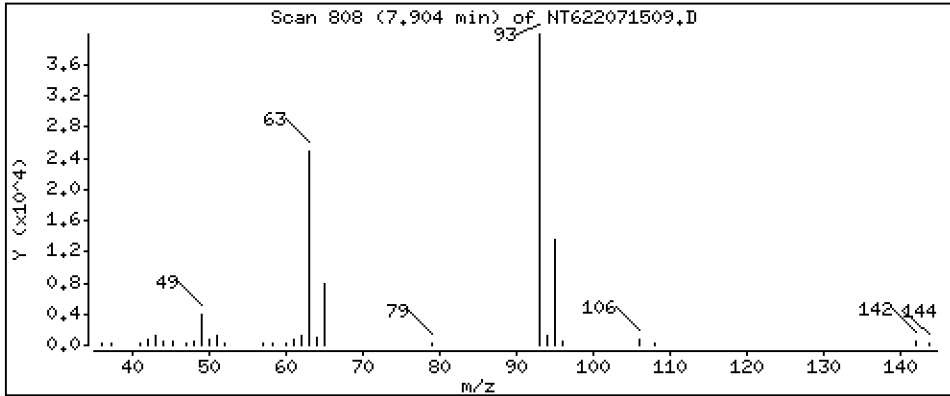
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

4 Bis(2-Chloroethyl)ether

Concentration: 24,22 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

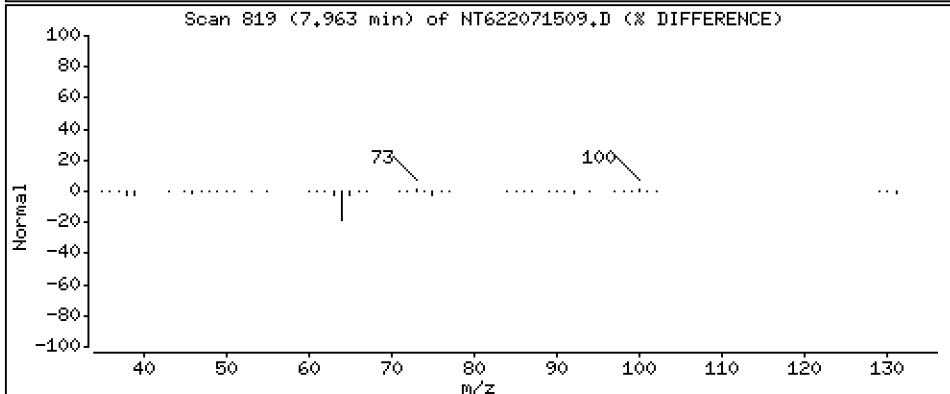
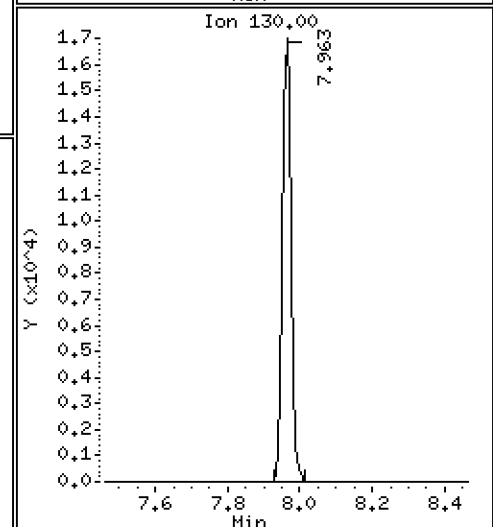
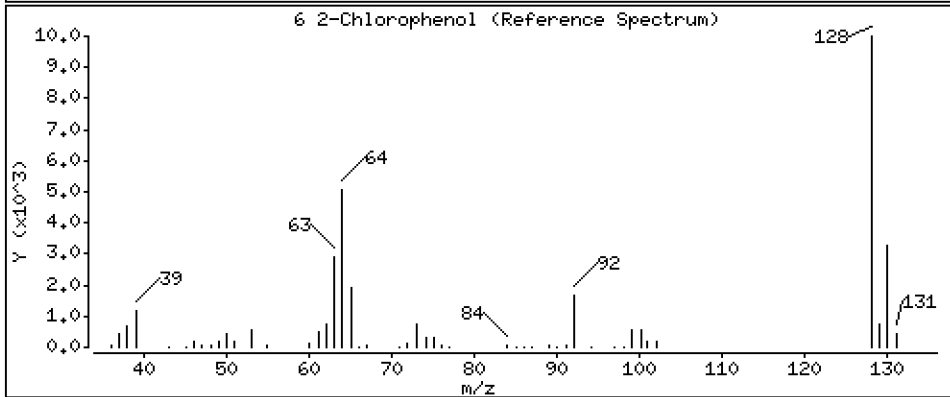
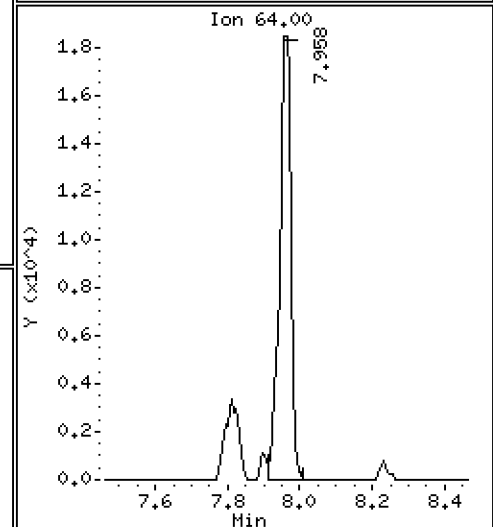
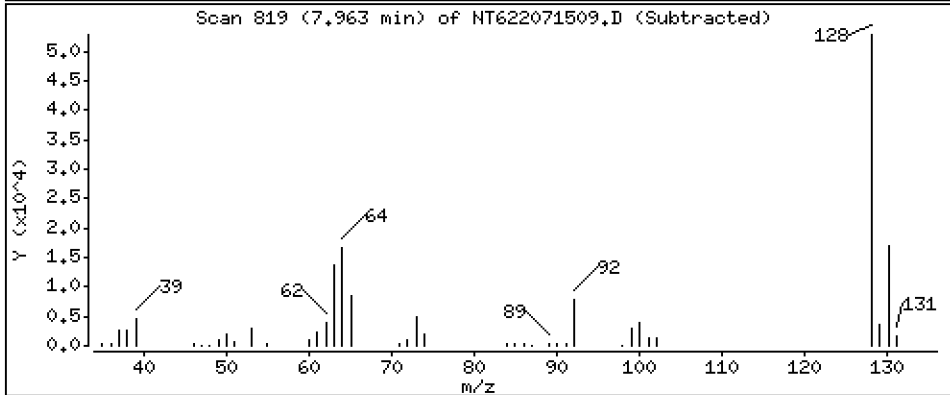
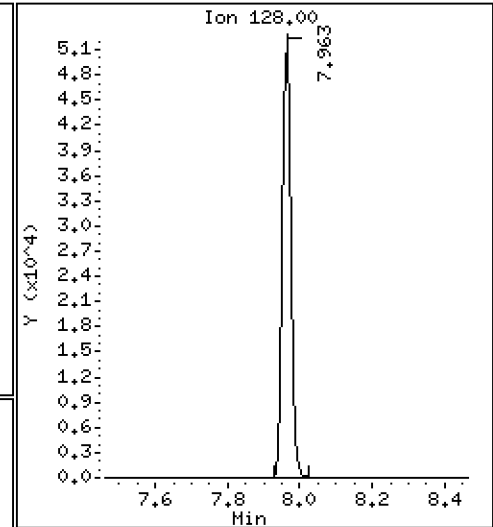
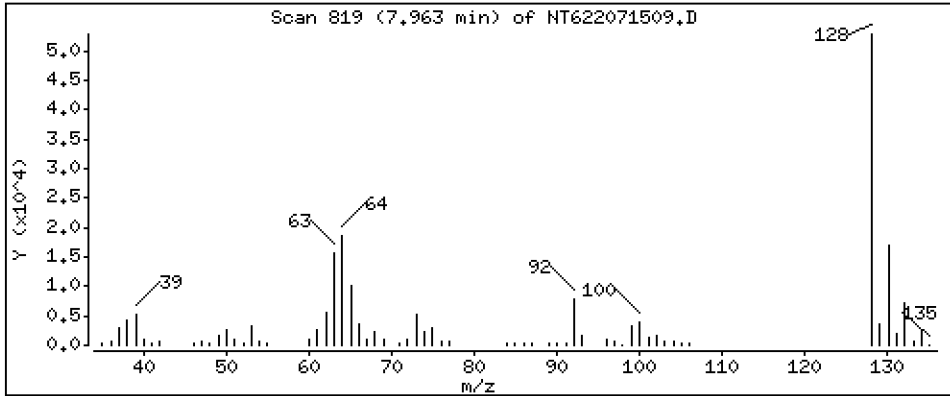
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

6 2-Chlorophenol

Concentration: 23.94 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

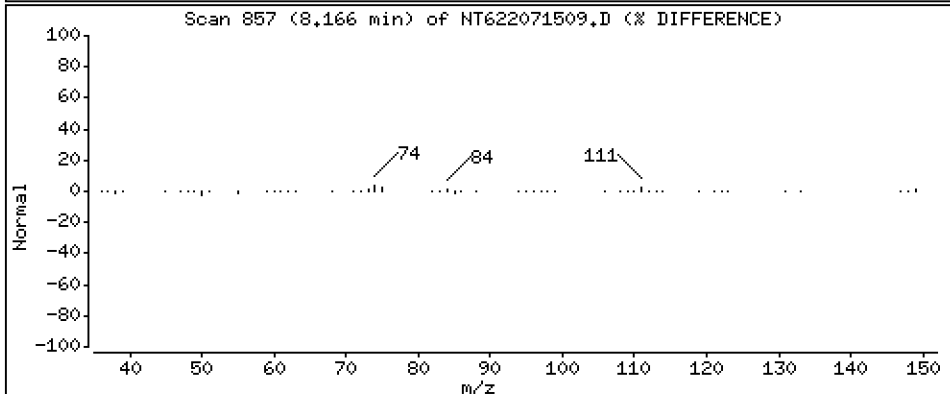
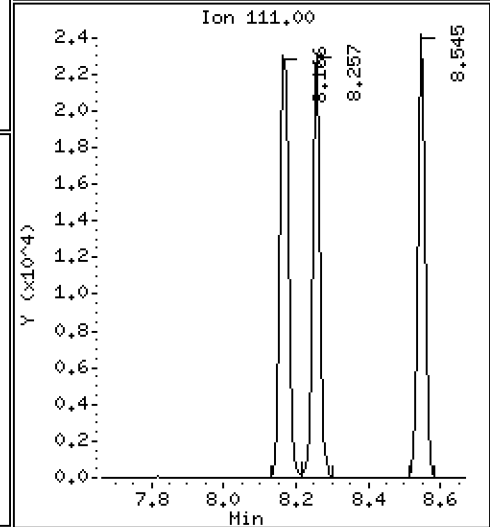
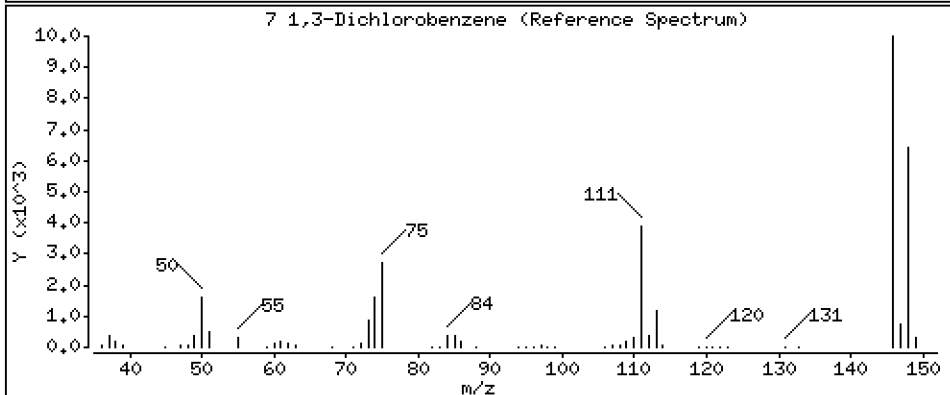
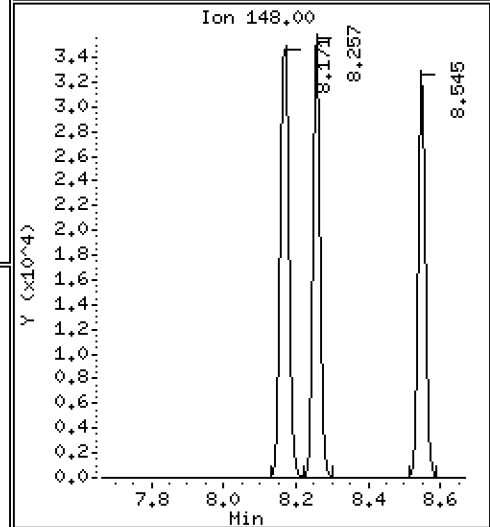
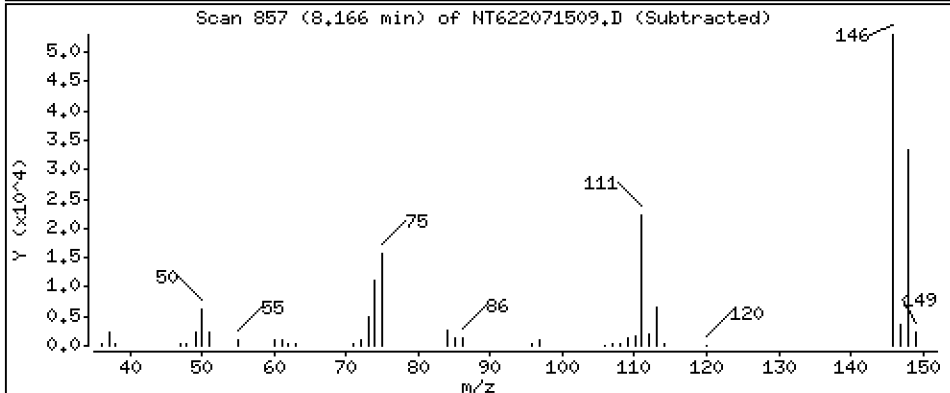
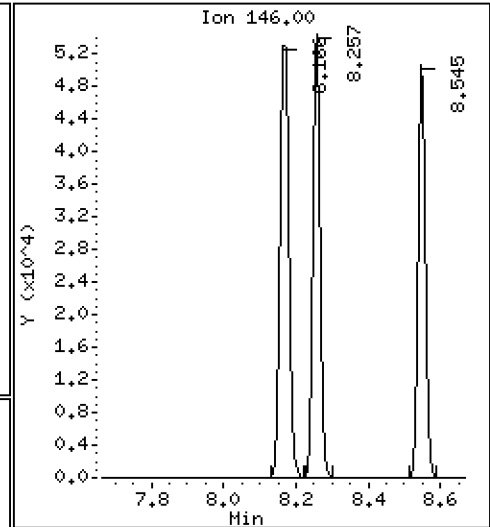
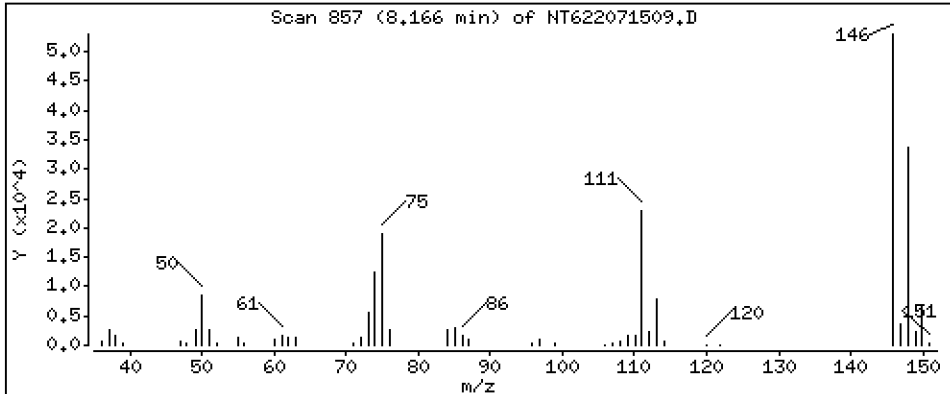
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

7 1,3-Dichlorobenzene

Concentration: 24.52 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

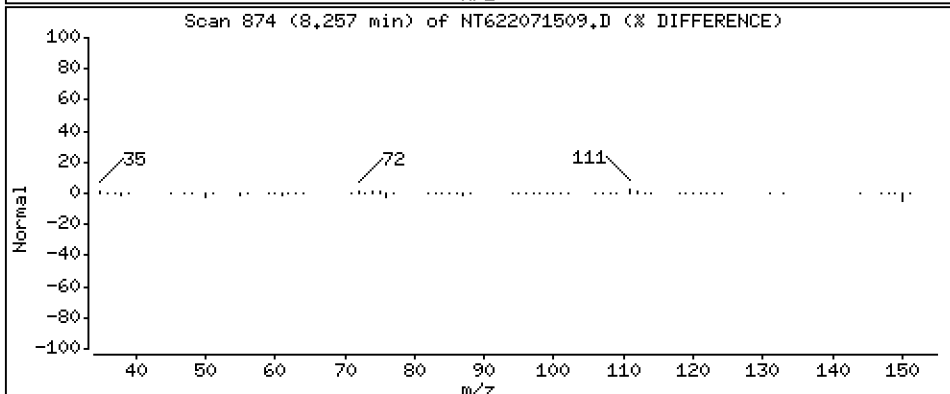
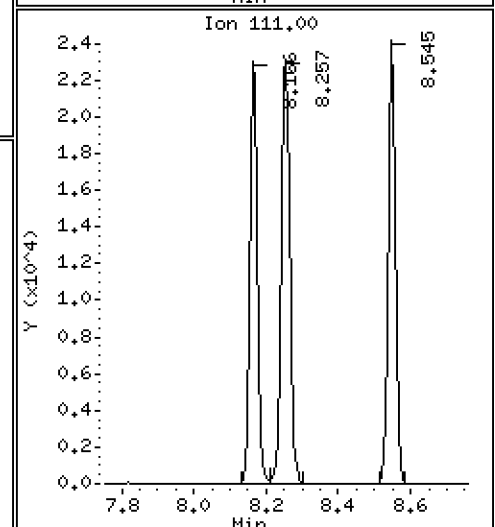
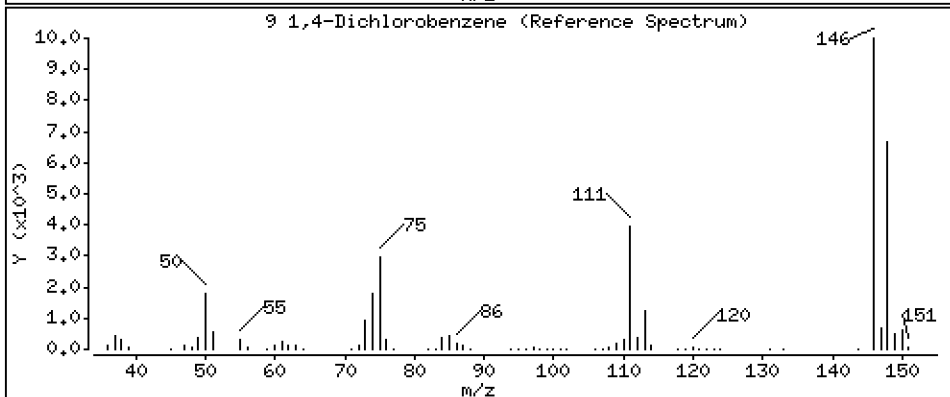
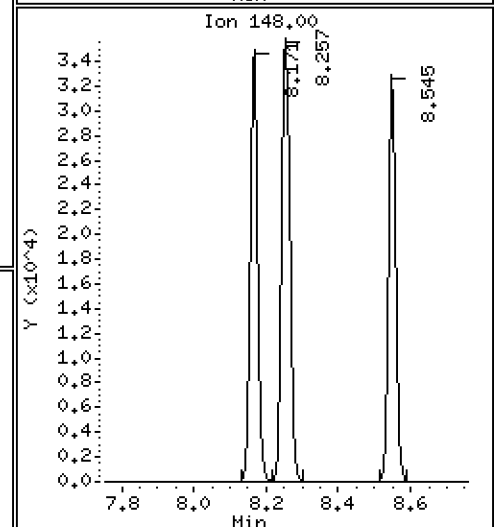
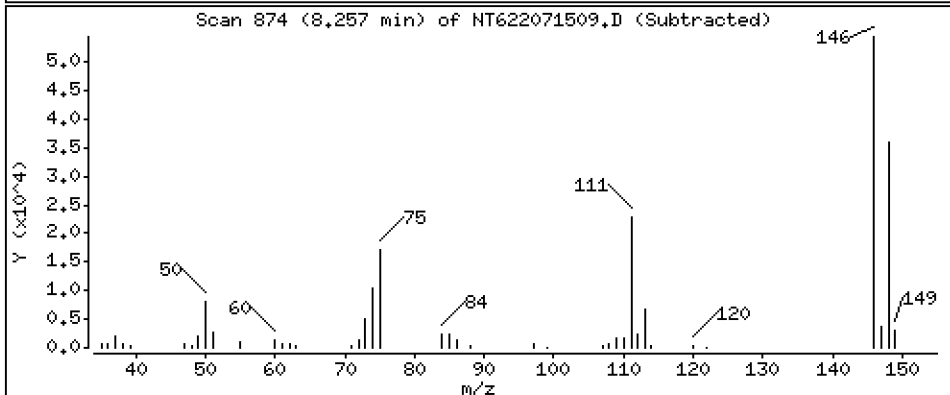
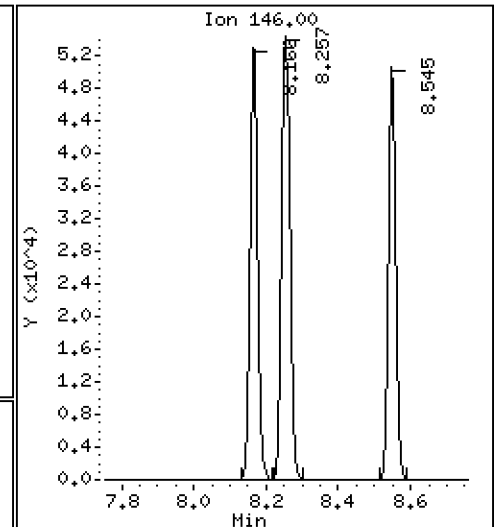
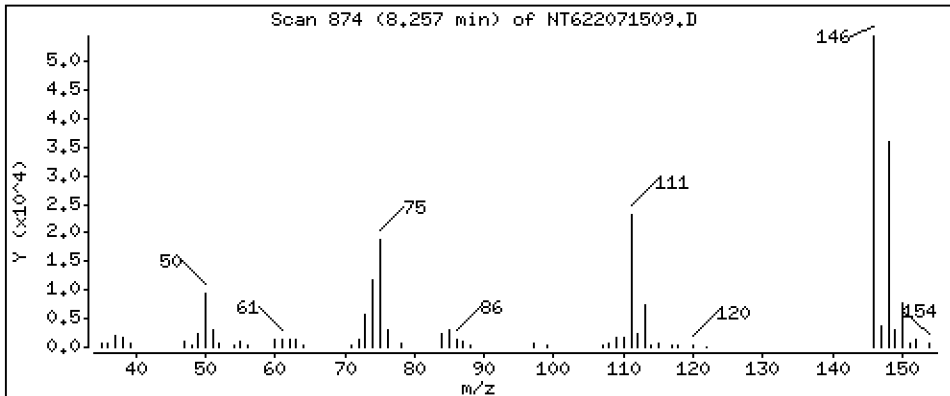
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

9 1,4-Dichlorobenzene

Concentration: 24.69 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

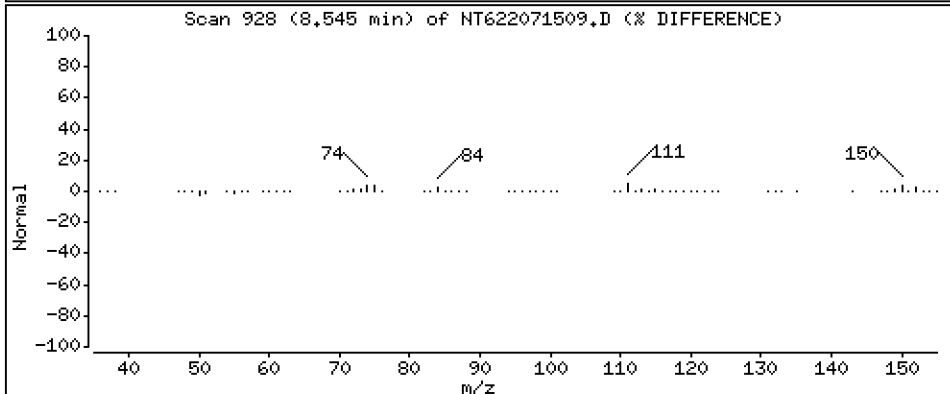
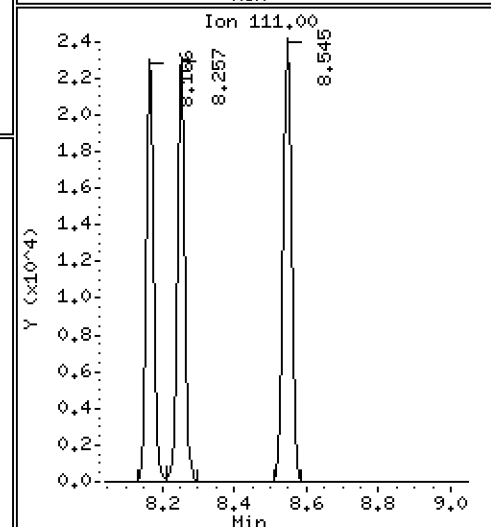
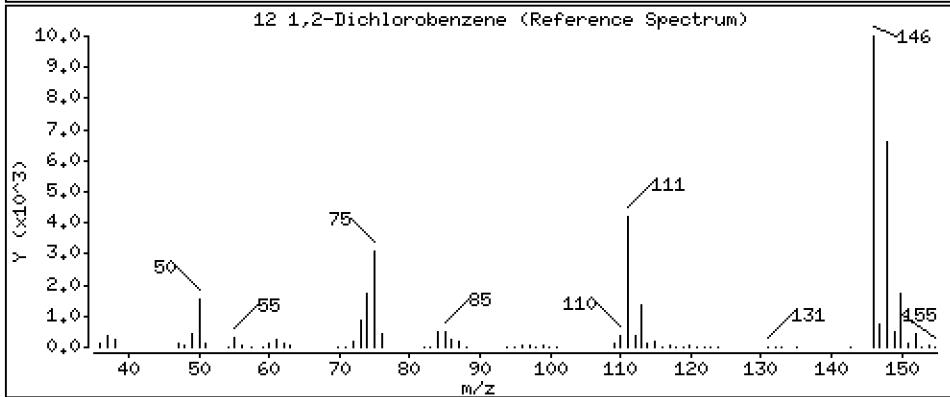
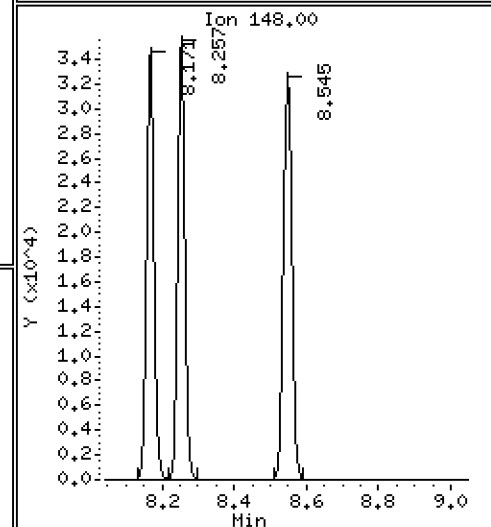
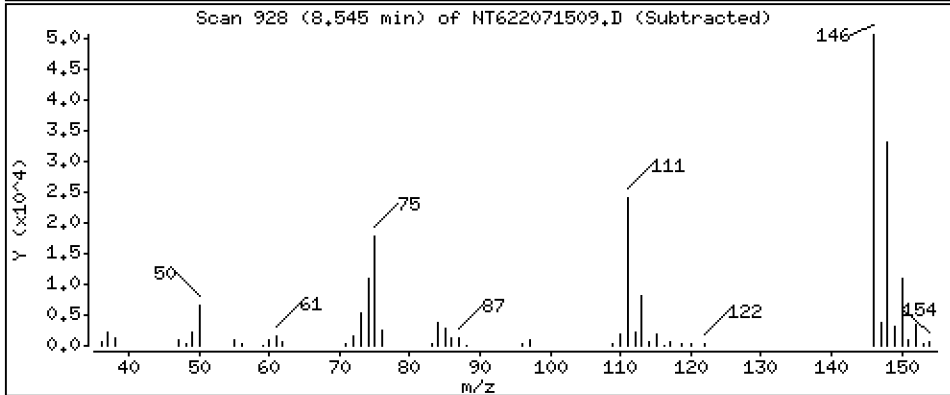
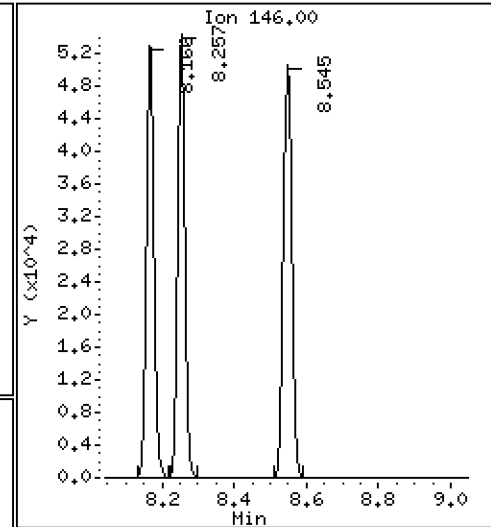
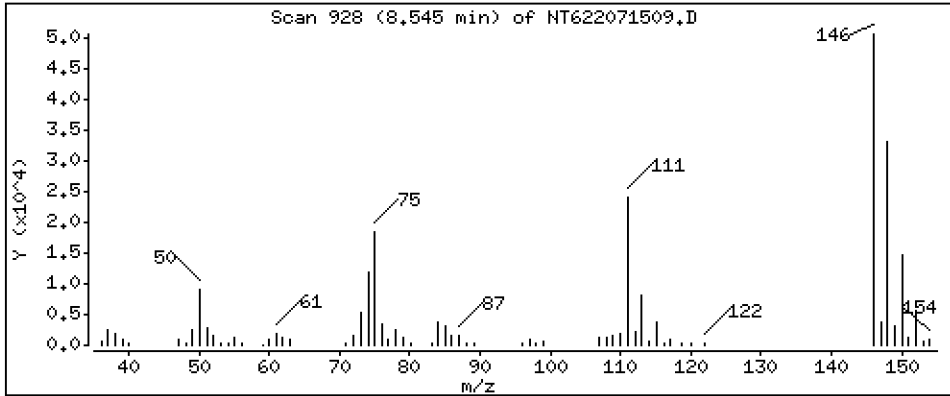
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

12 1,2-Dichlorobenzene

Concentration: 24.50 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

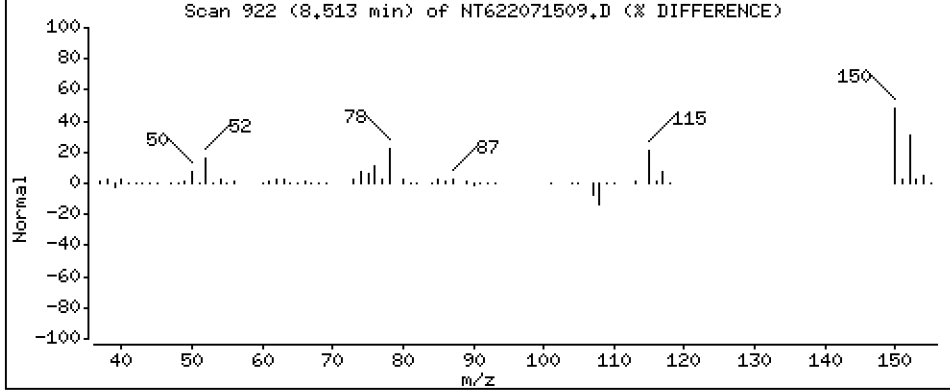
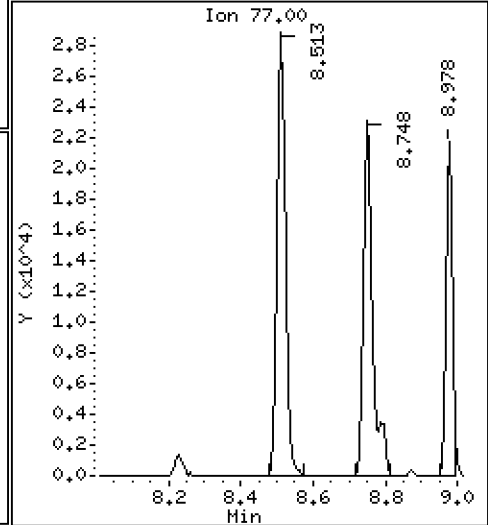
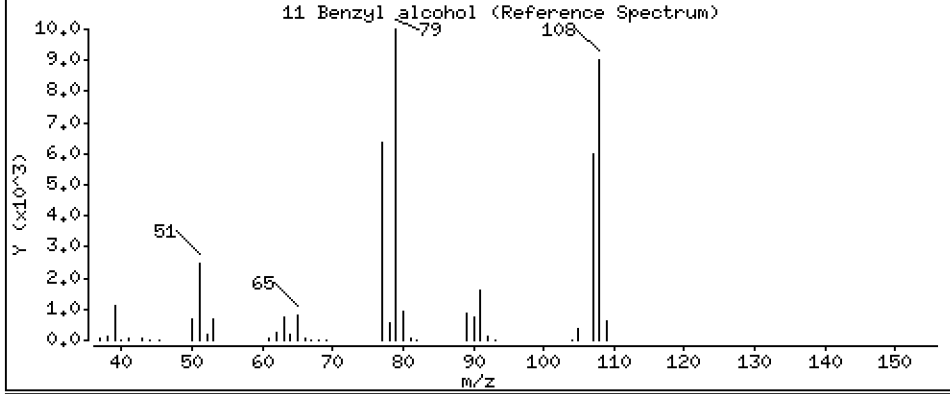
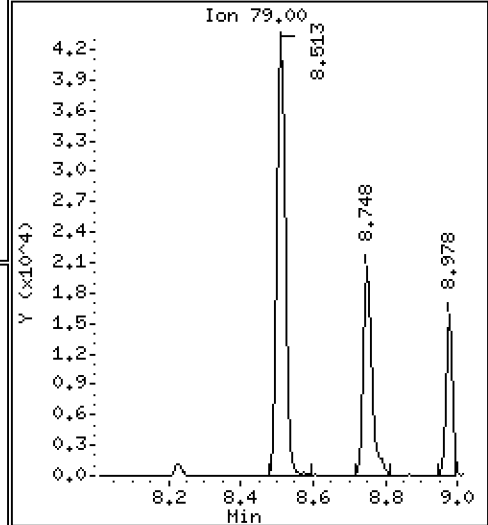
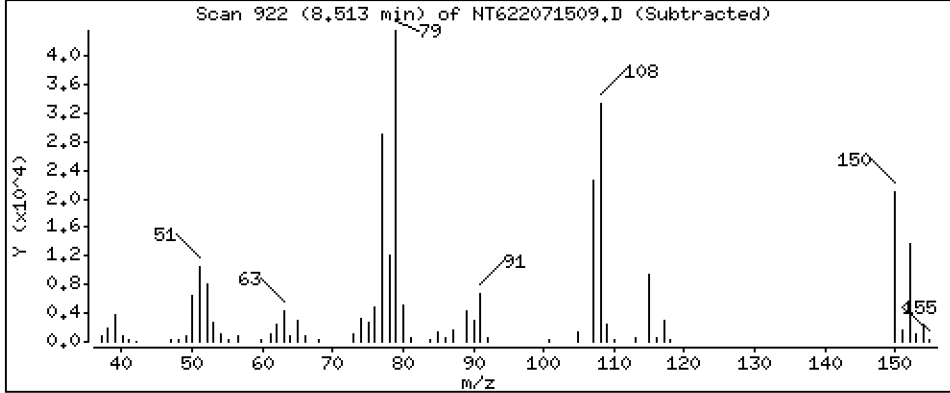
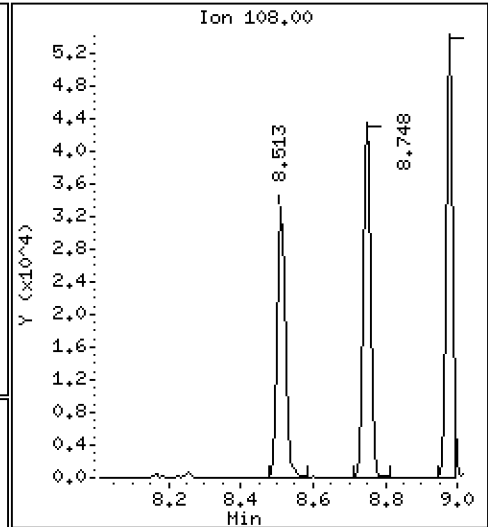
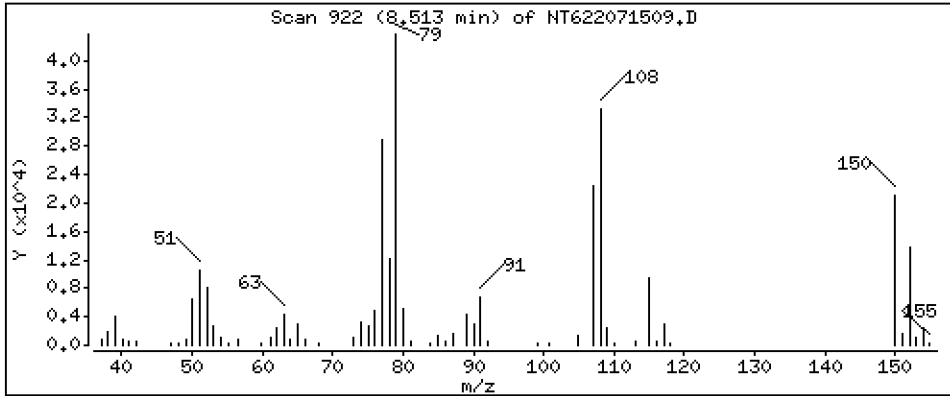
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

11 Benzyl alcohol

Concentration: 25.69 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

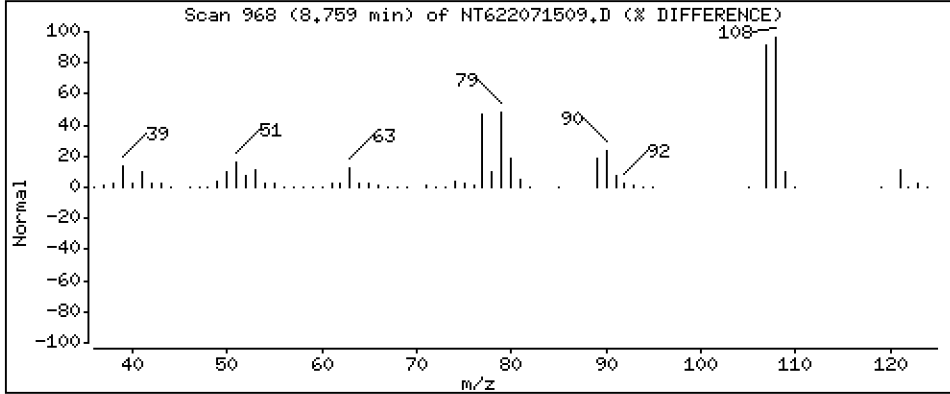
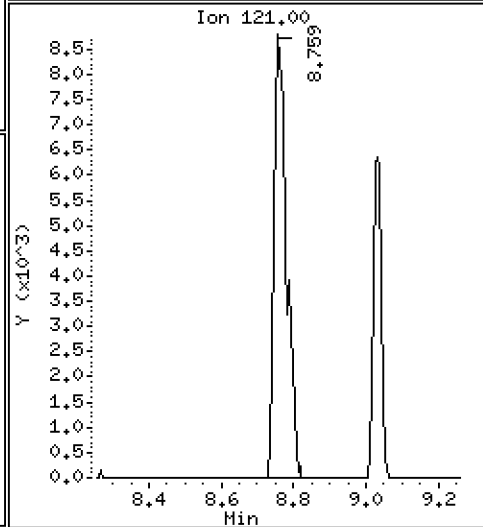
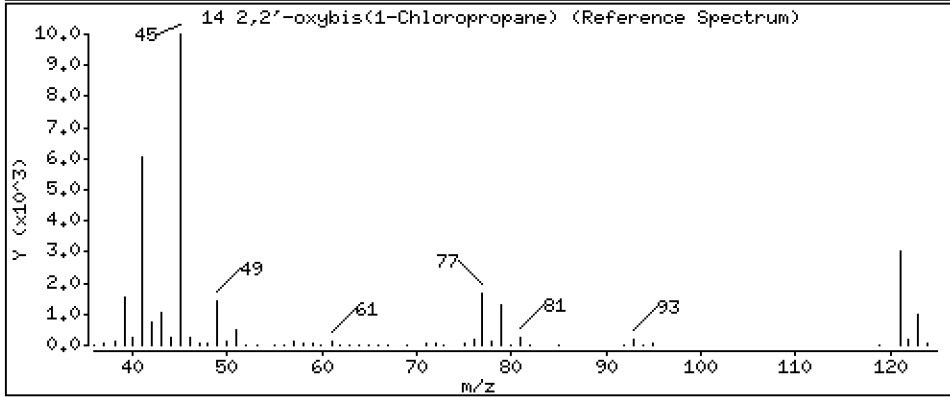
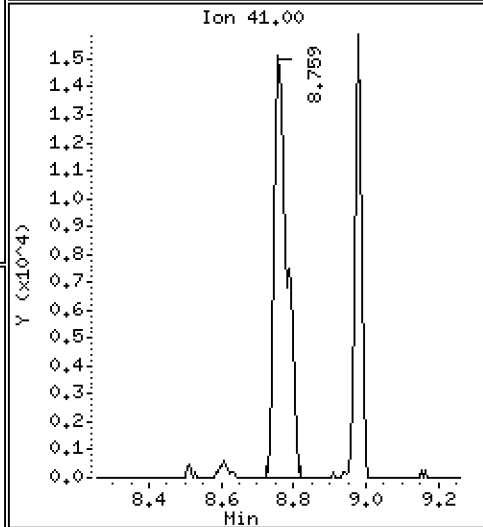
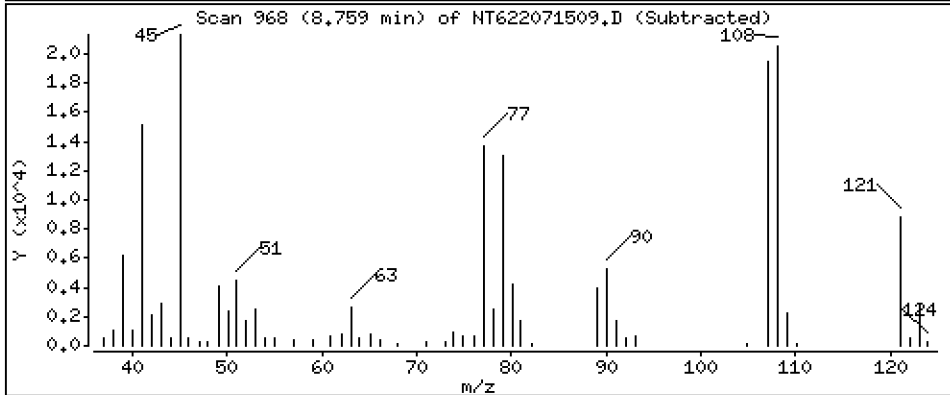
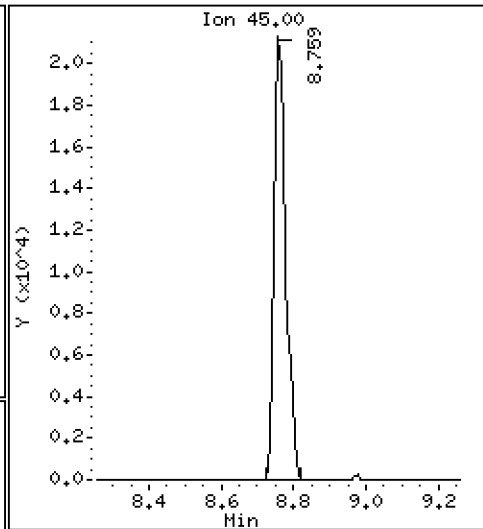
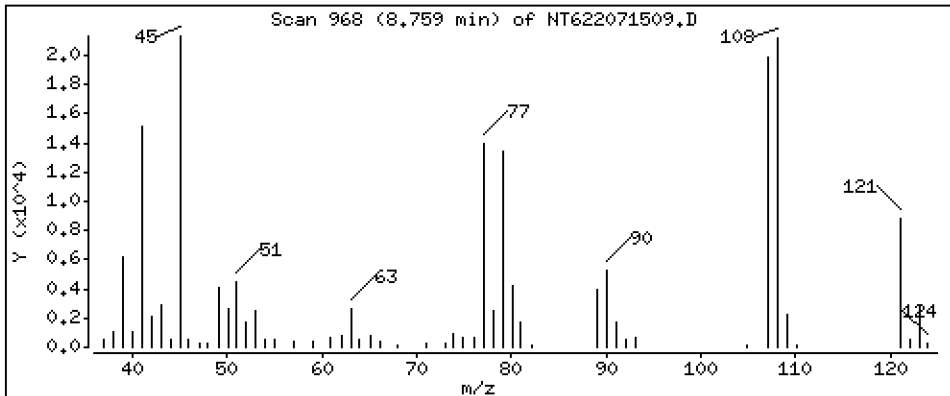
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

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

Concentration: 24.47 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

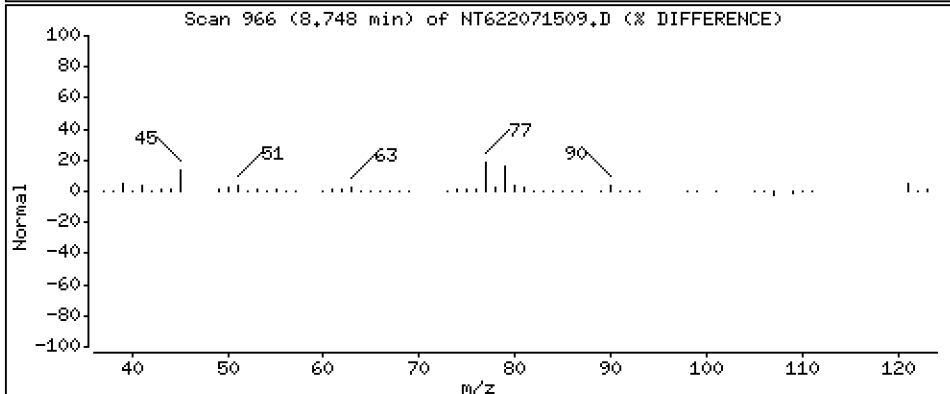
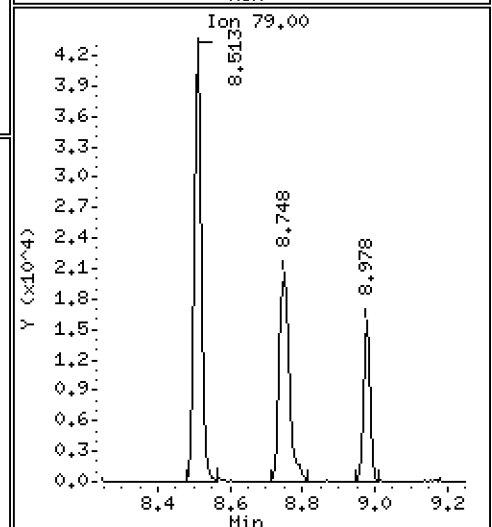
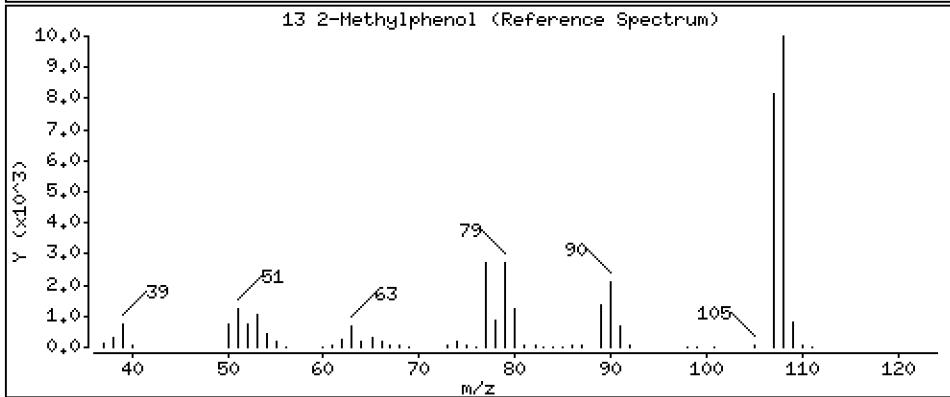
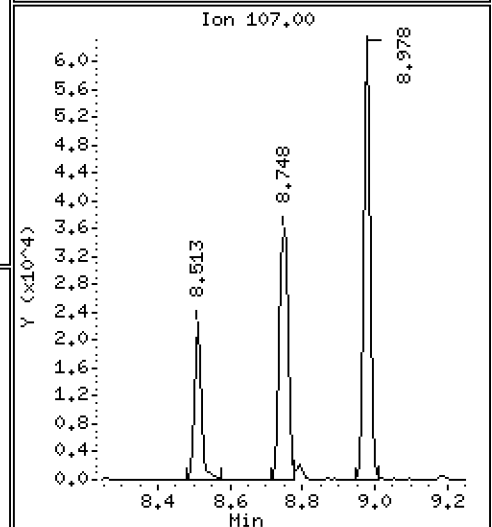
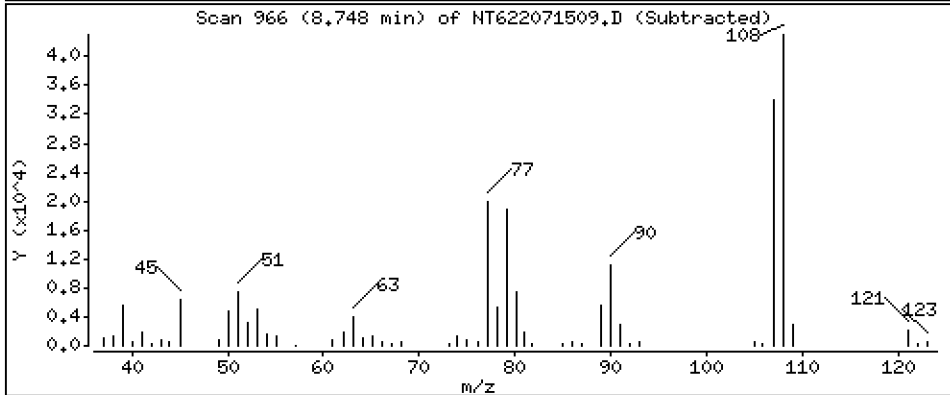
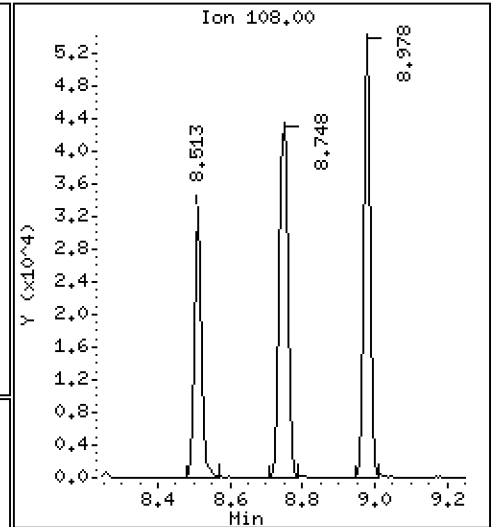
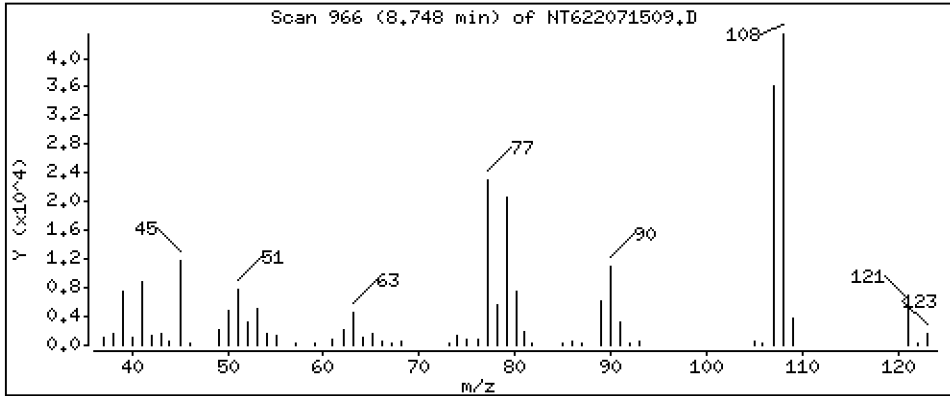
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

13 2-Methylphenol

Concentration: 24.67 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

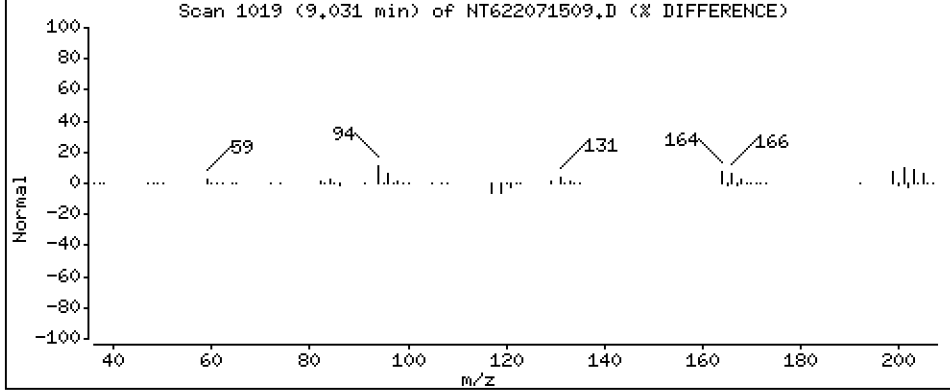
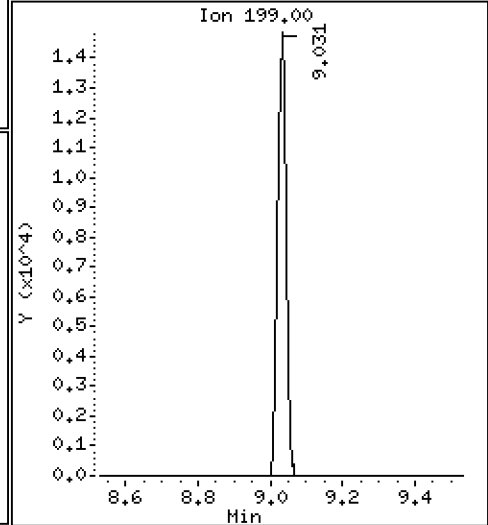
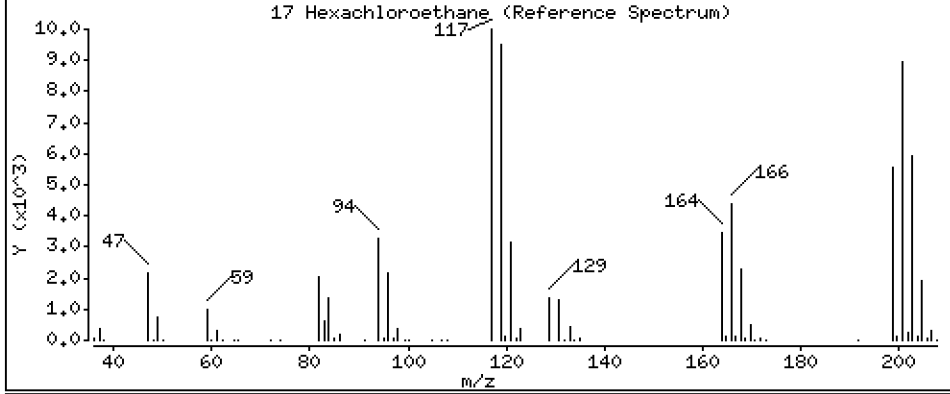
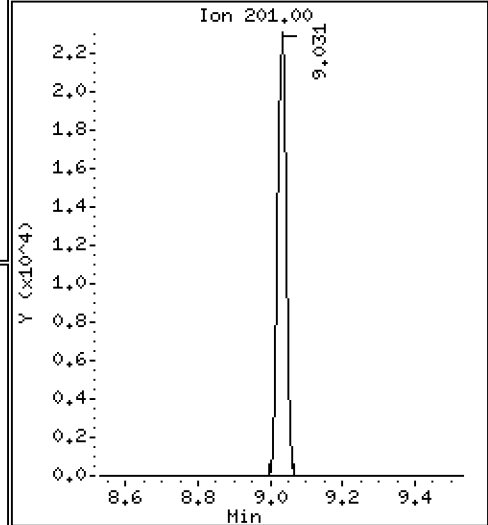
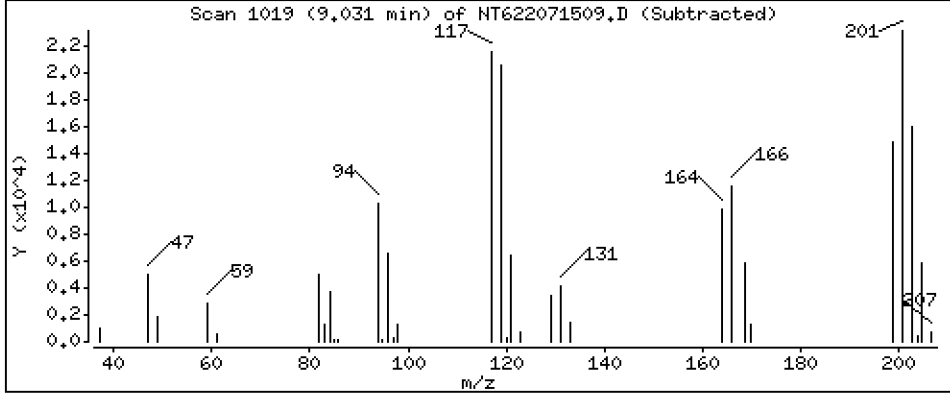
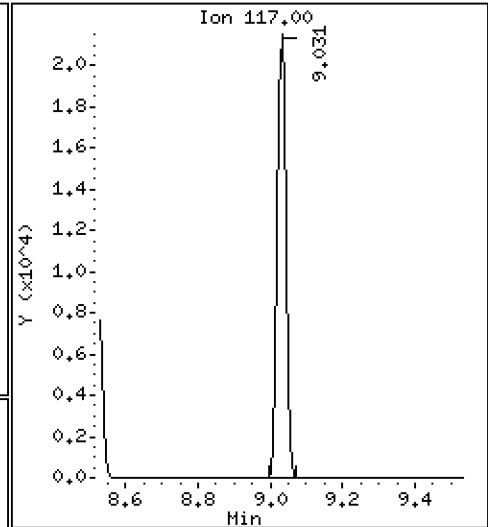
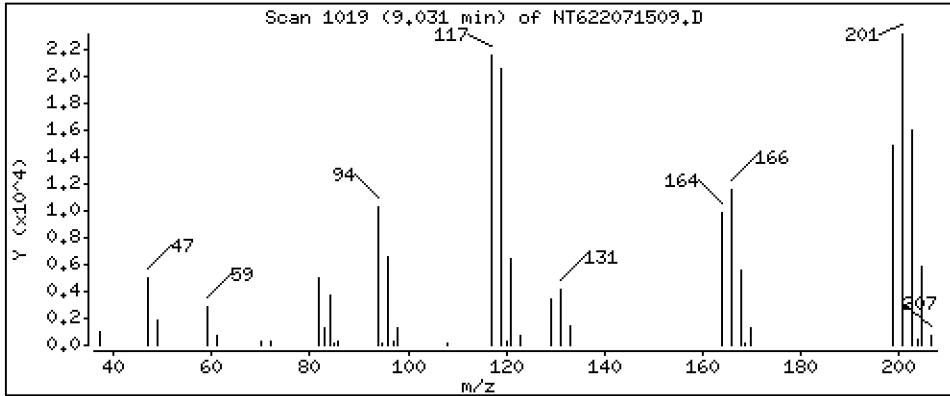
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

17 Hexachloroethane

Concentration: 24.90 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

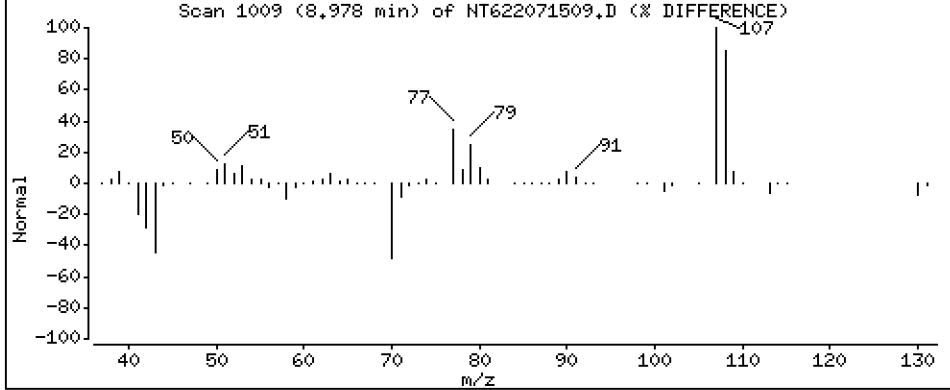
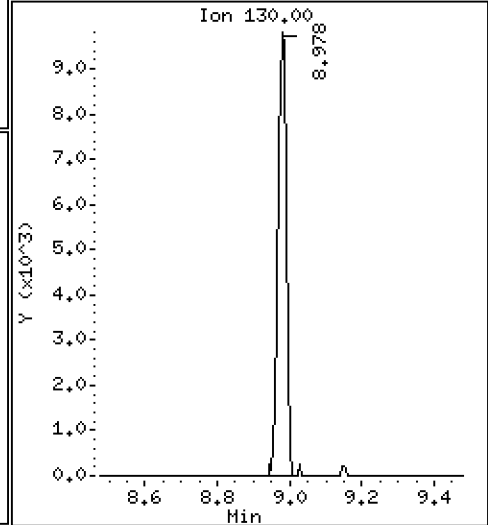
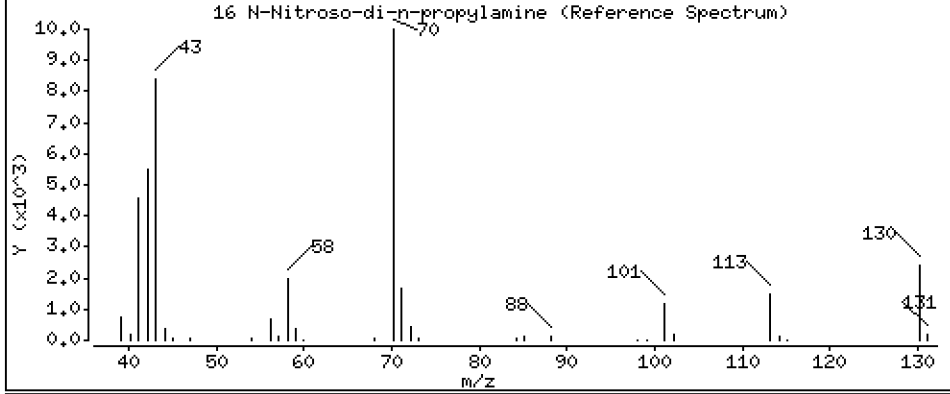
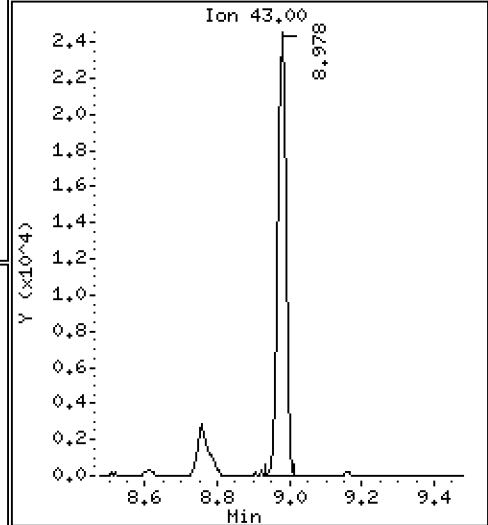
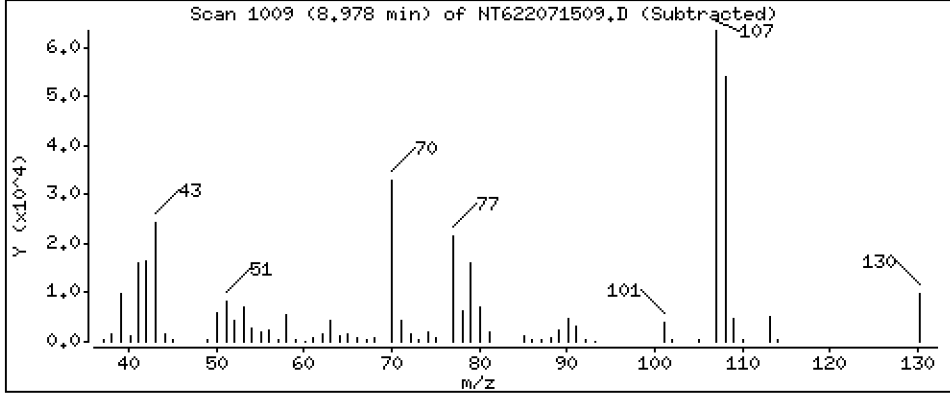
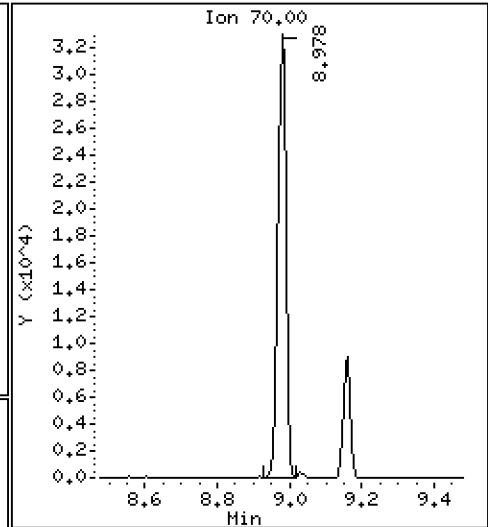
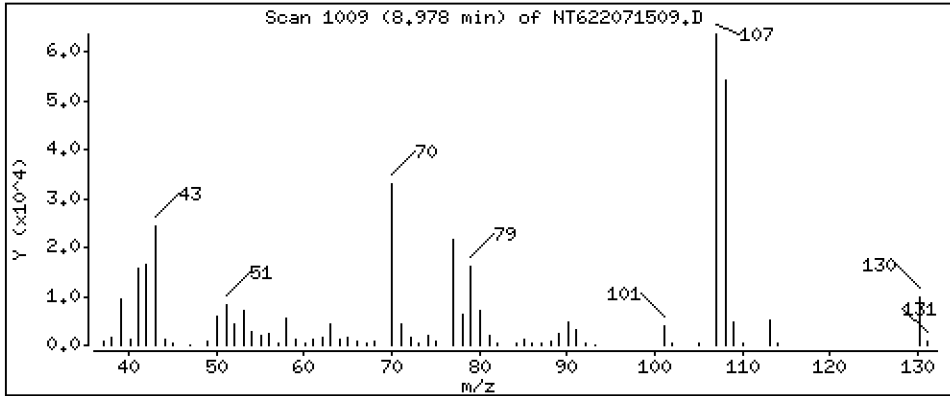
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

16 N-Nitroso-di-n-propylamine

Concentration: 26,19 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

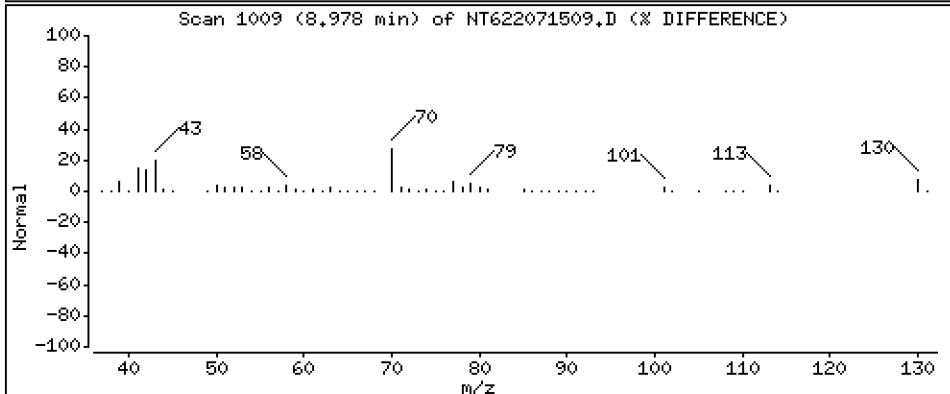
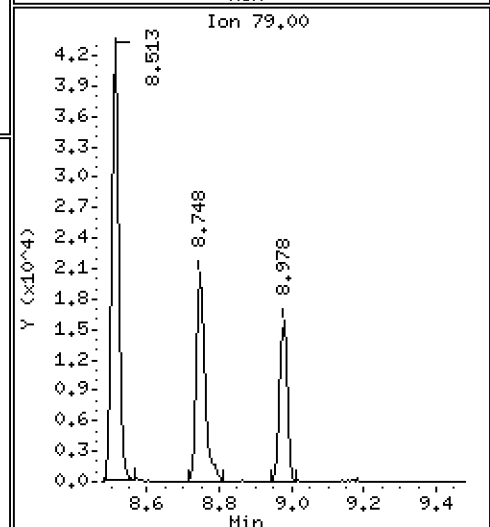
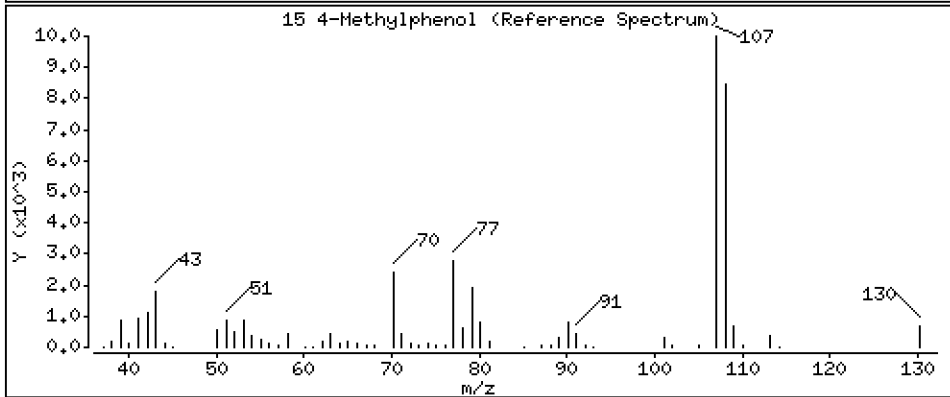
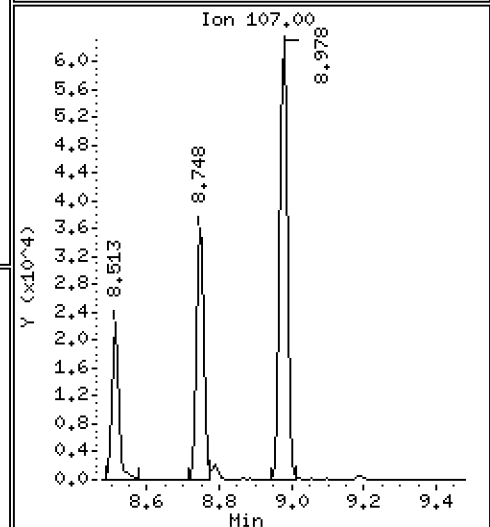
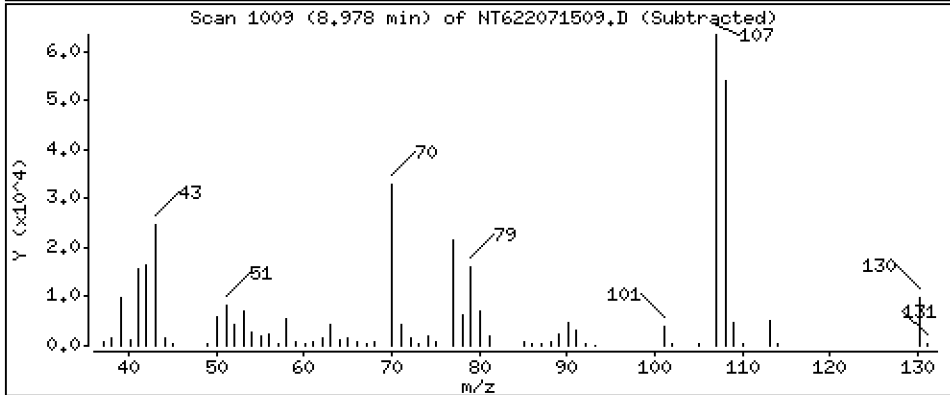
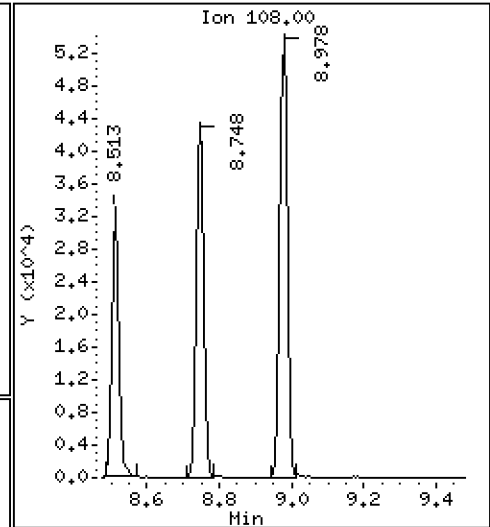
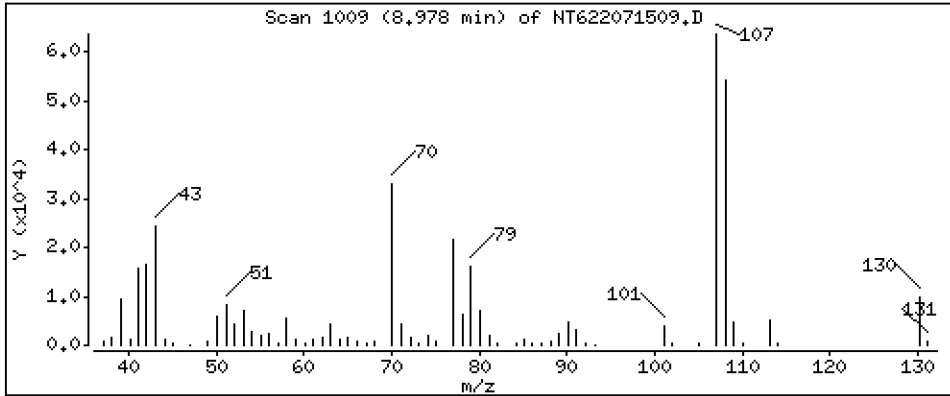
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

15 4-Methylphenol

Concentration: 24.93 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

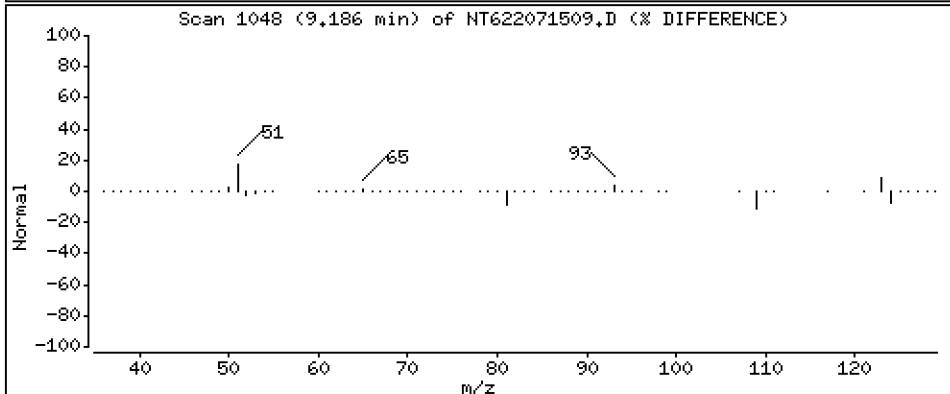
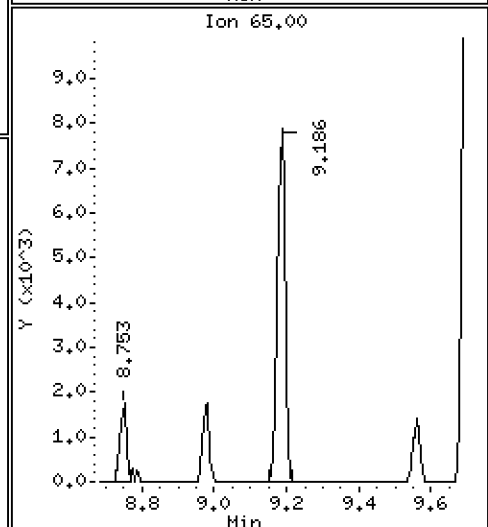
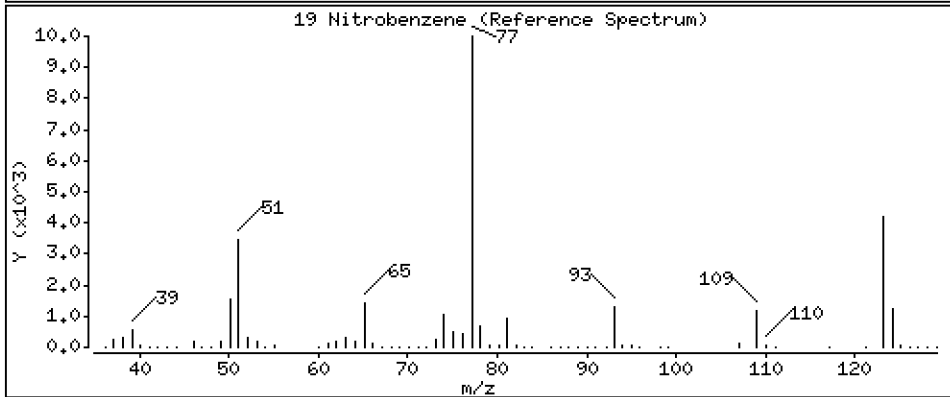
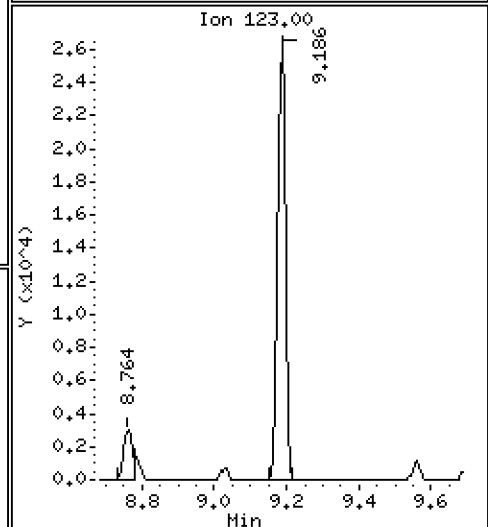
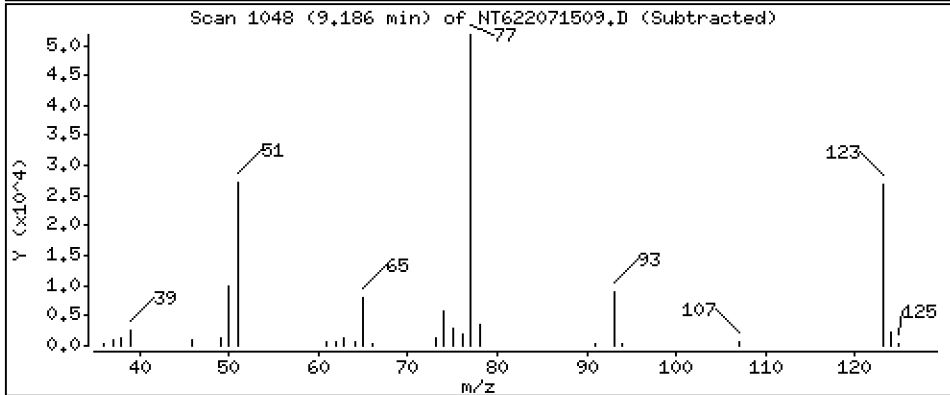
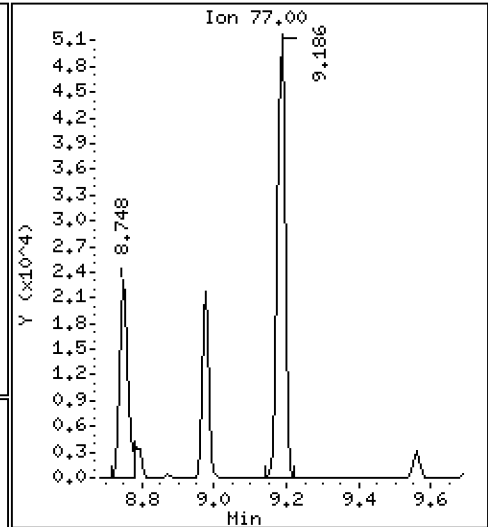
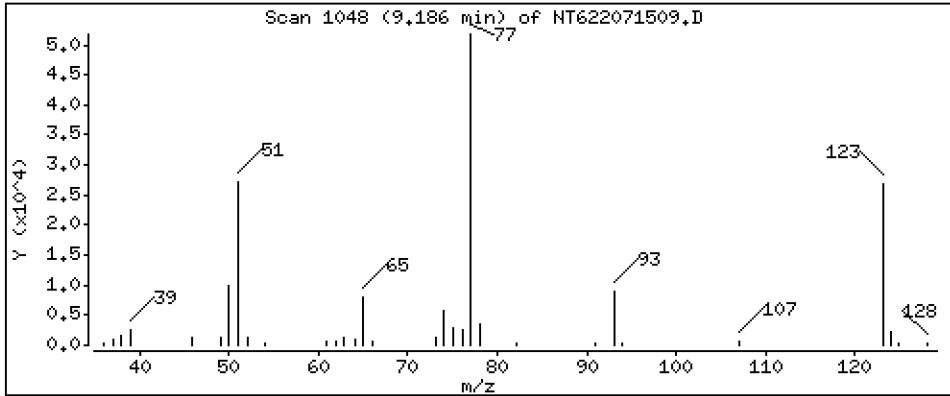
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

19 Nitrobenzene

Concentration: 24.90 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

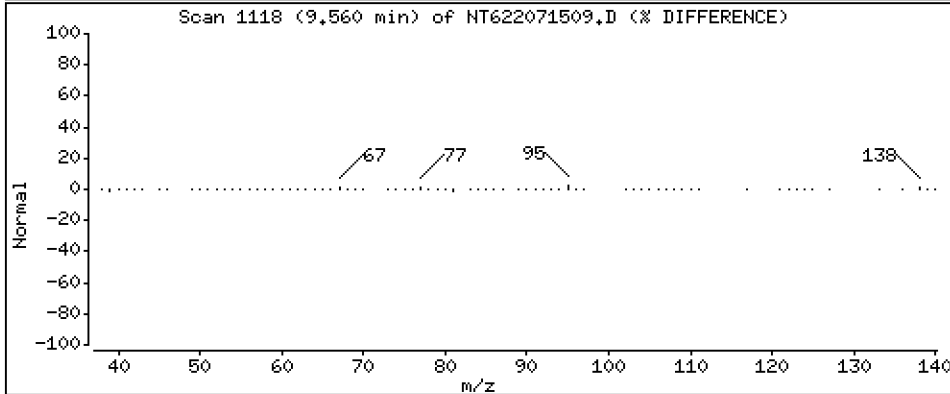
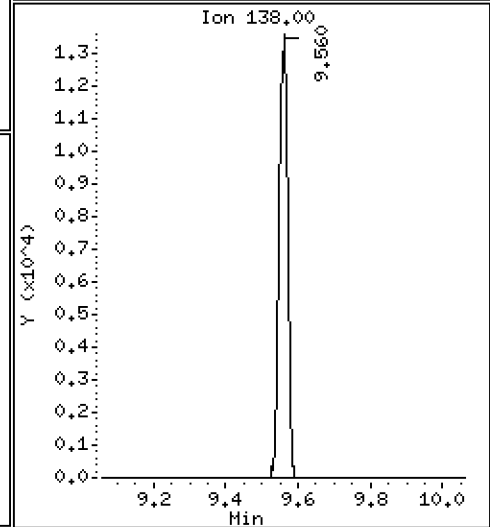
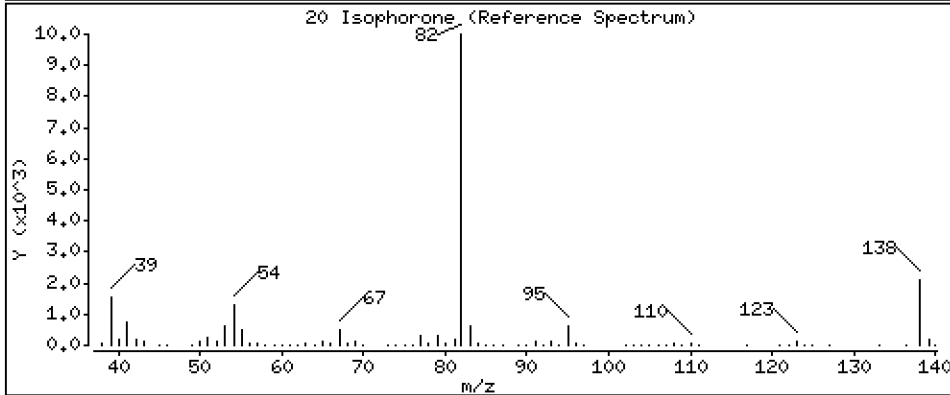
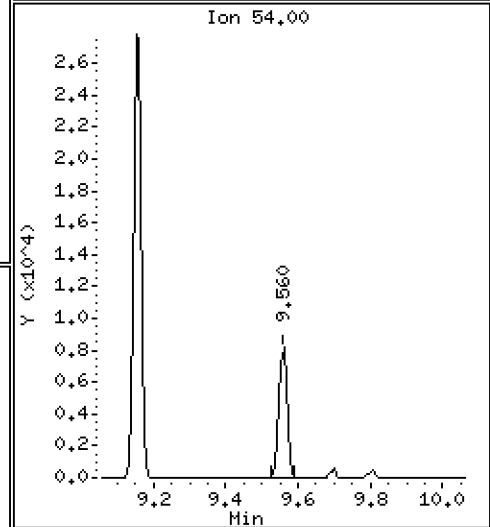
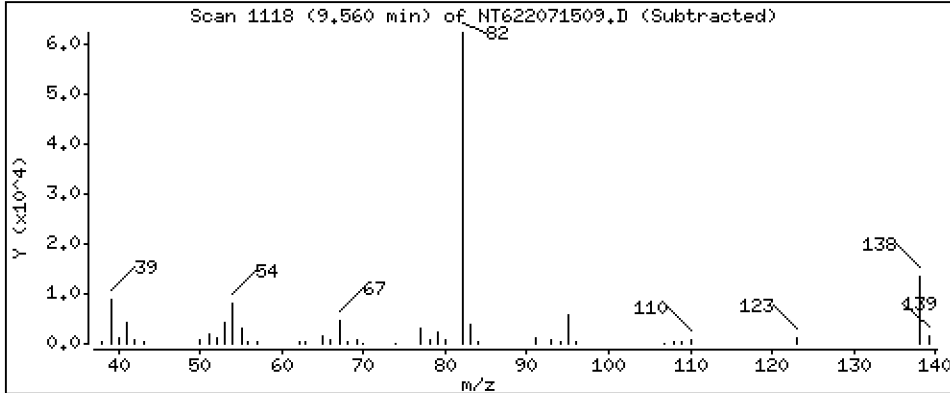
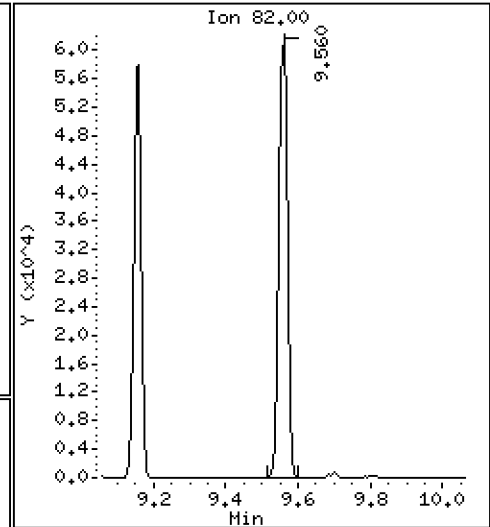
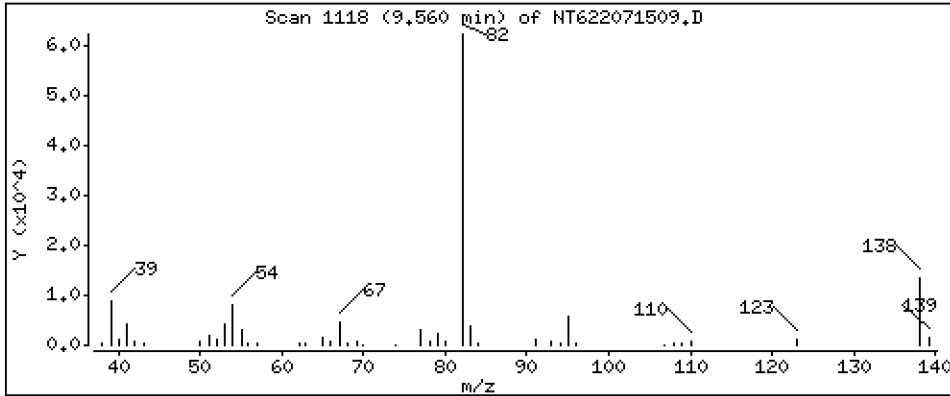
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

20 Isophorone

Concentration: 26.12 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

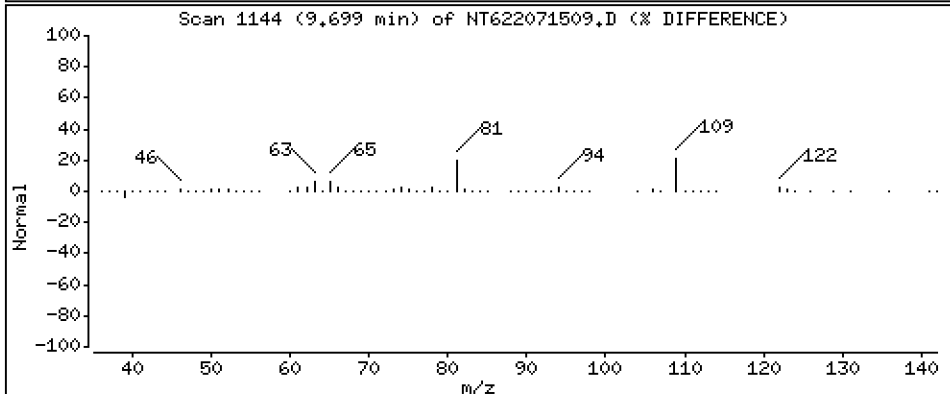
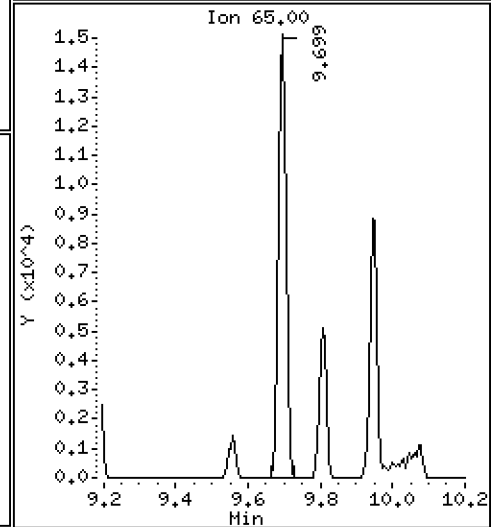
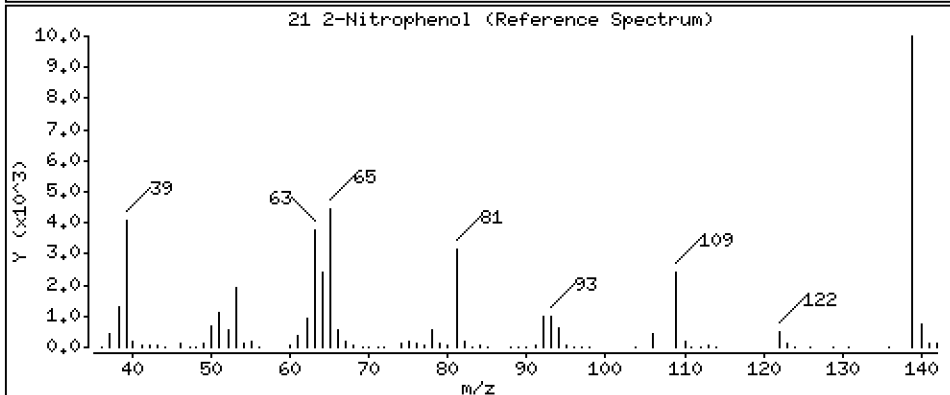
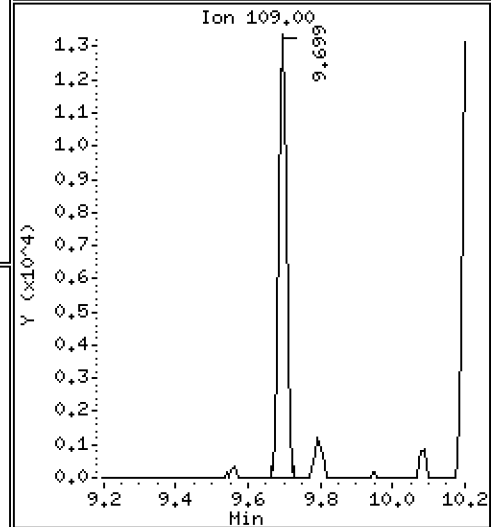
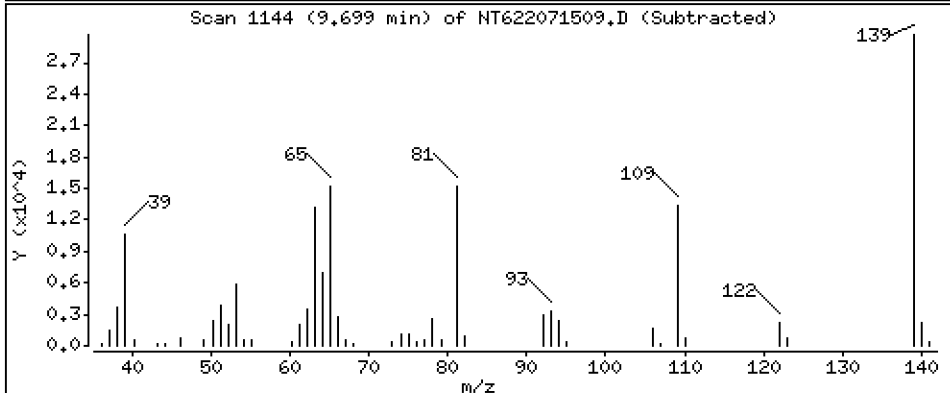
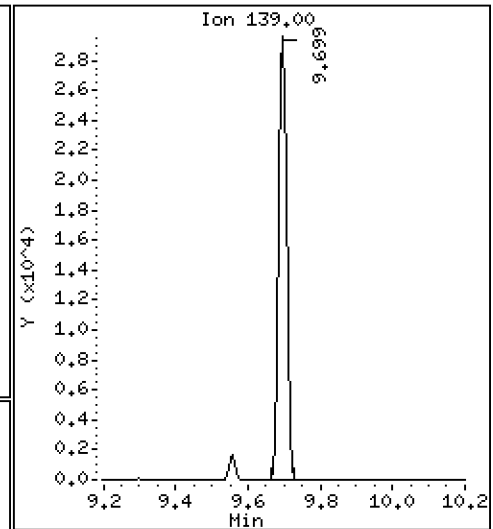
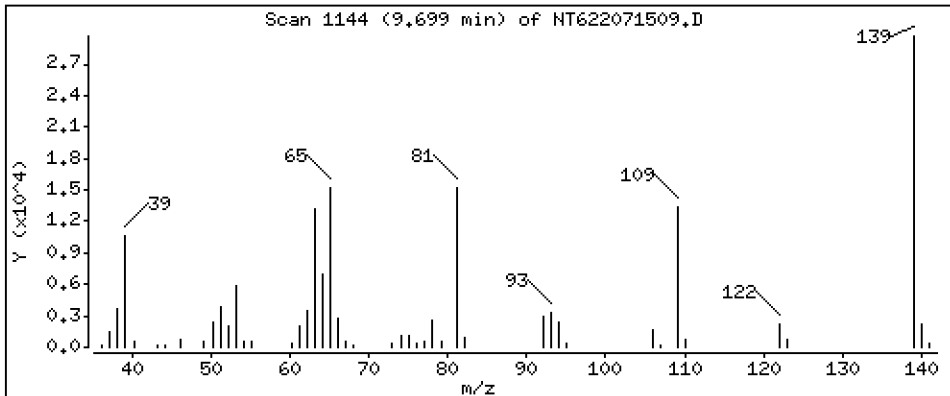
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

21 2-Nitrophenol

Concentration: 24,17 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

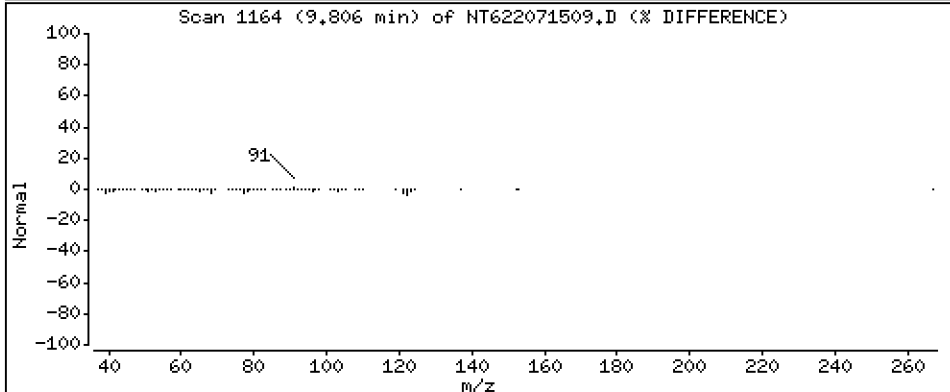
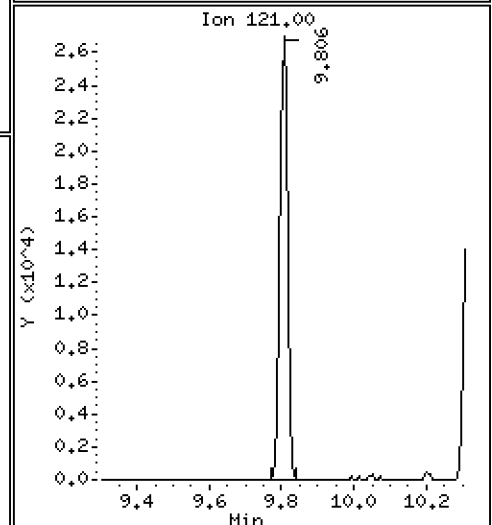
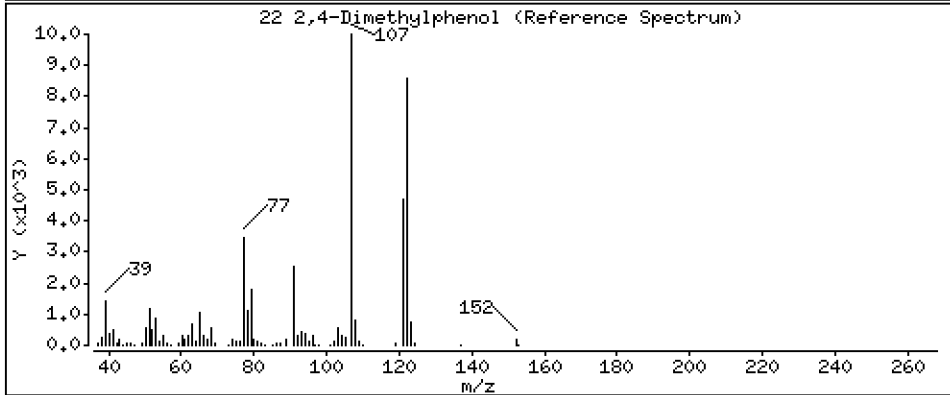
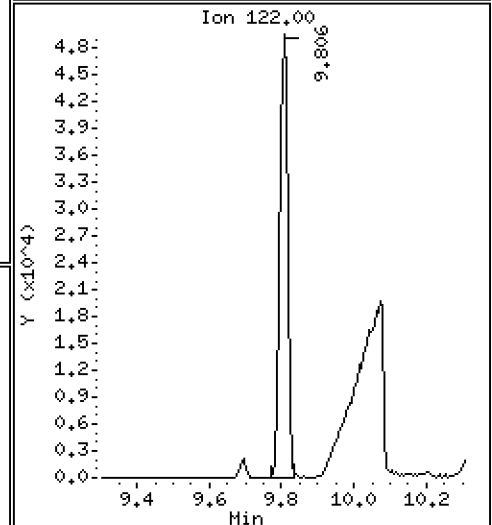
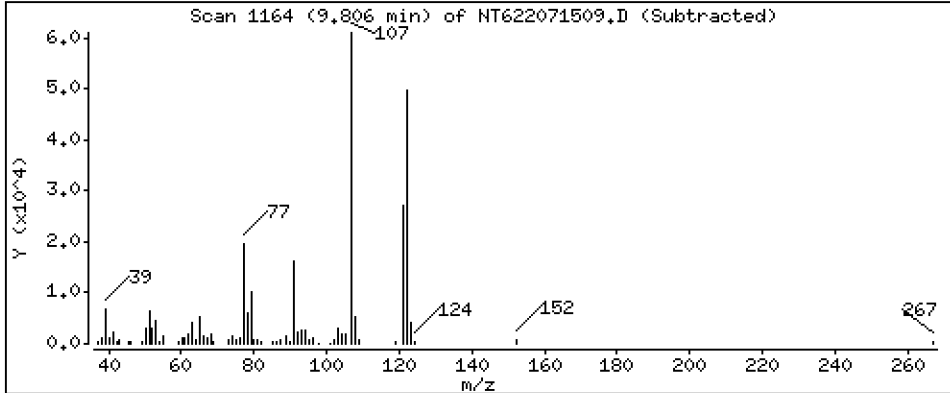
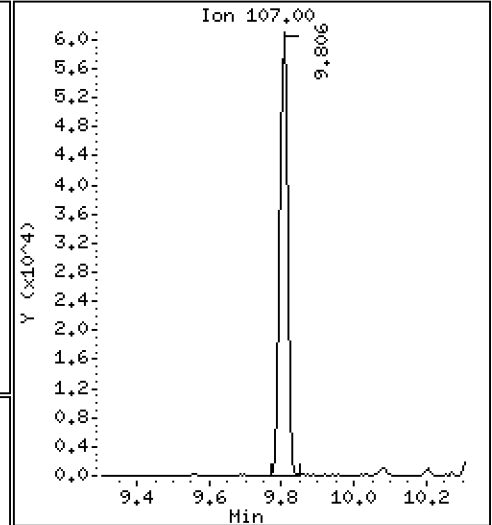
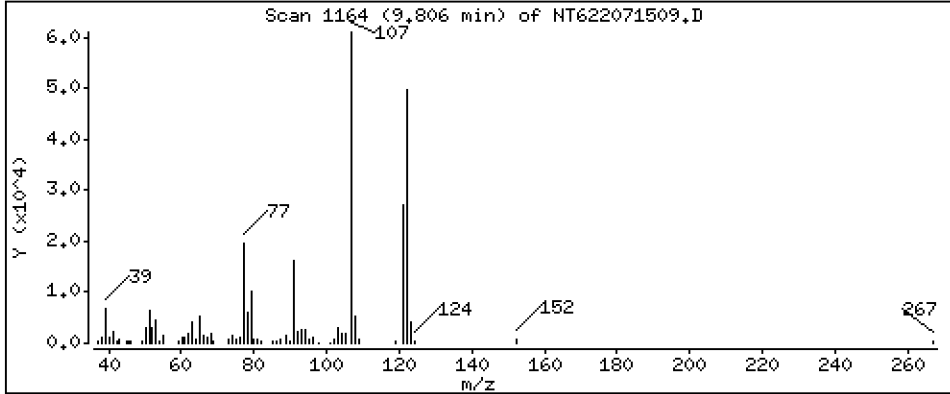
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

22 2,4-Dimethylphenol

Concentration: 25.32 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

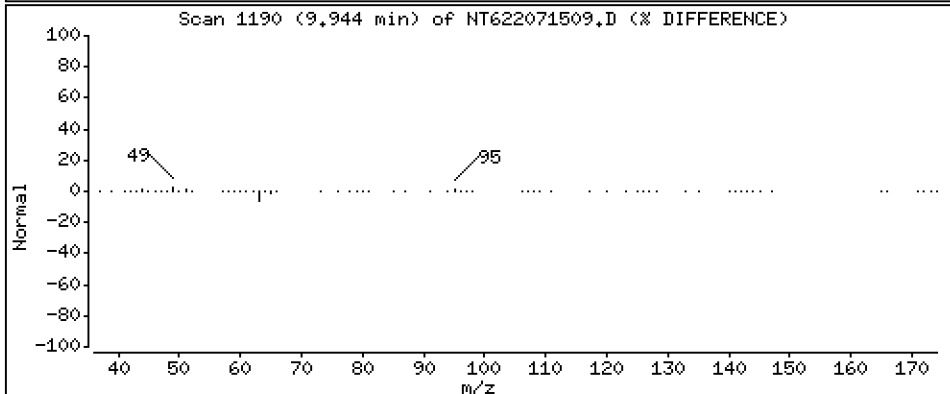
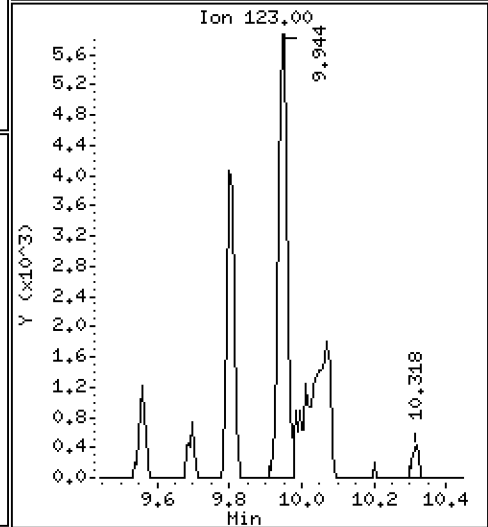
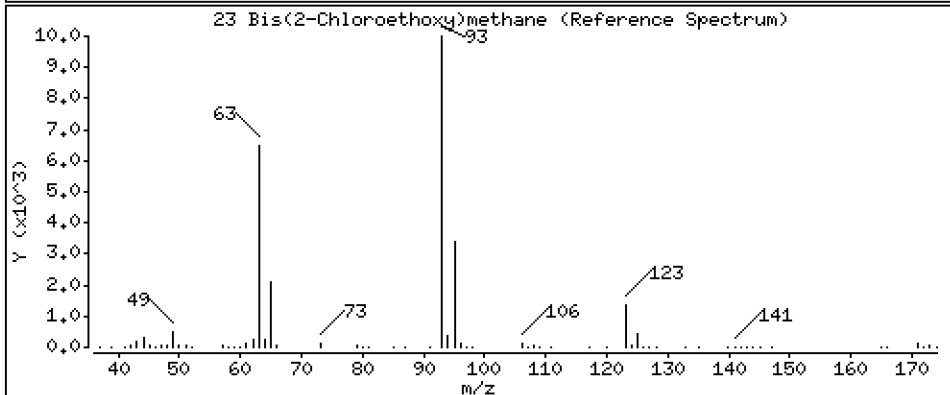
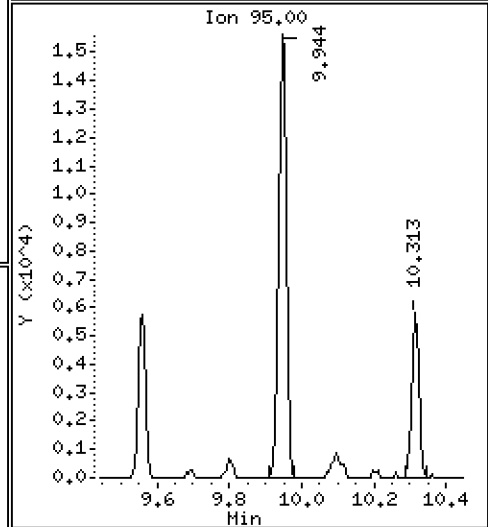
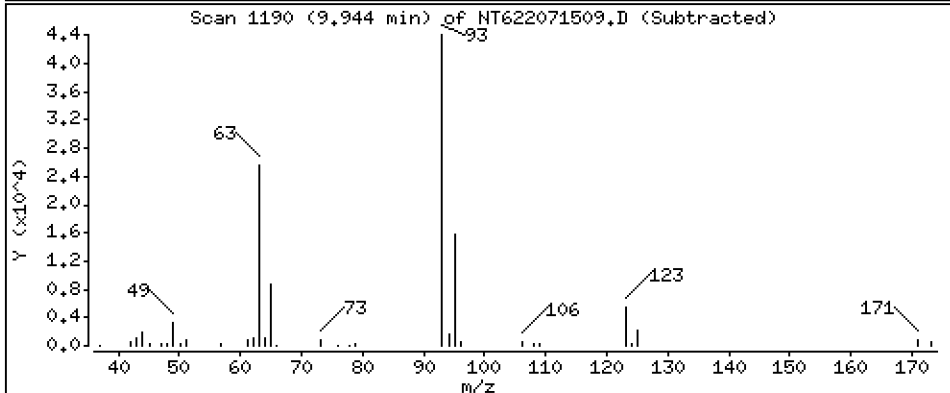
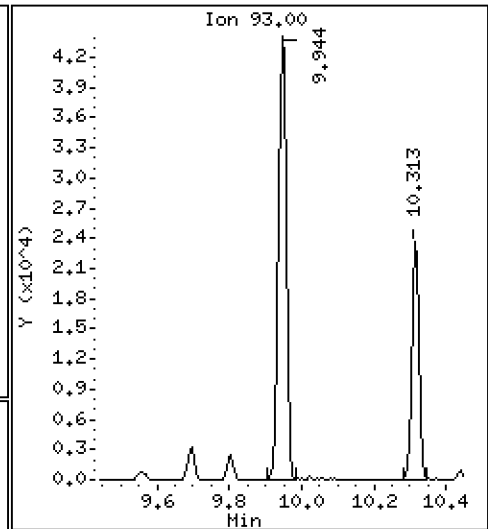
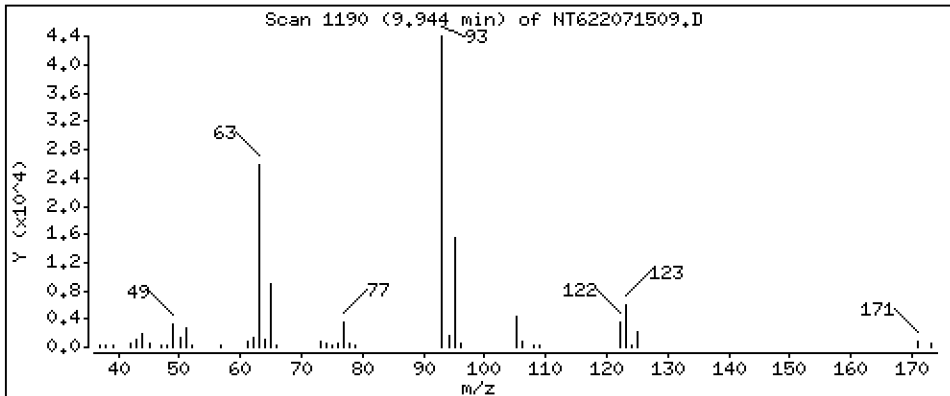
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

23 Bis(2-Chloroethoxy)methane

Concentration: 24.16 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

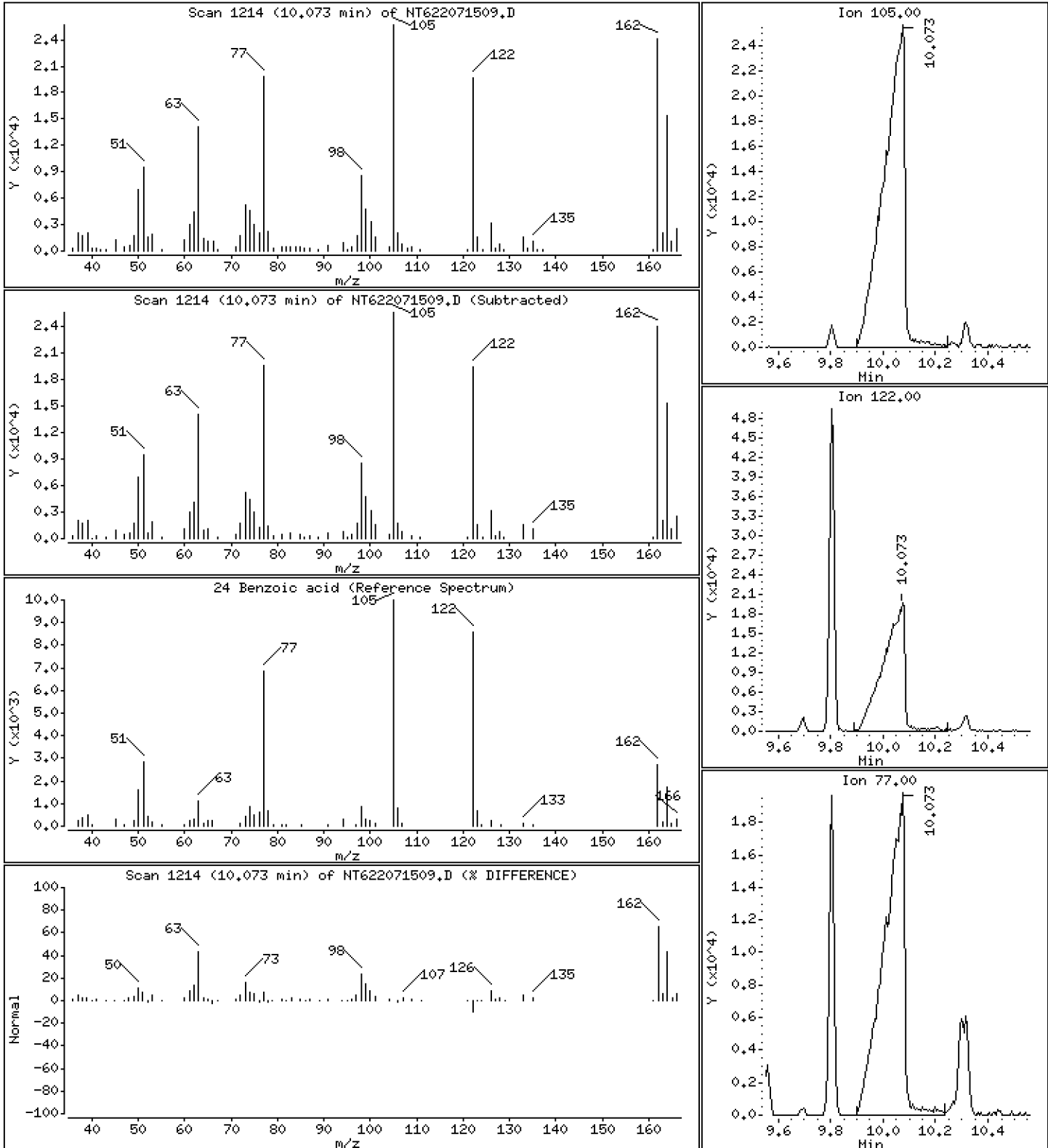
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

24 Benzoic acid

Concentration: 68.44 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

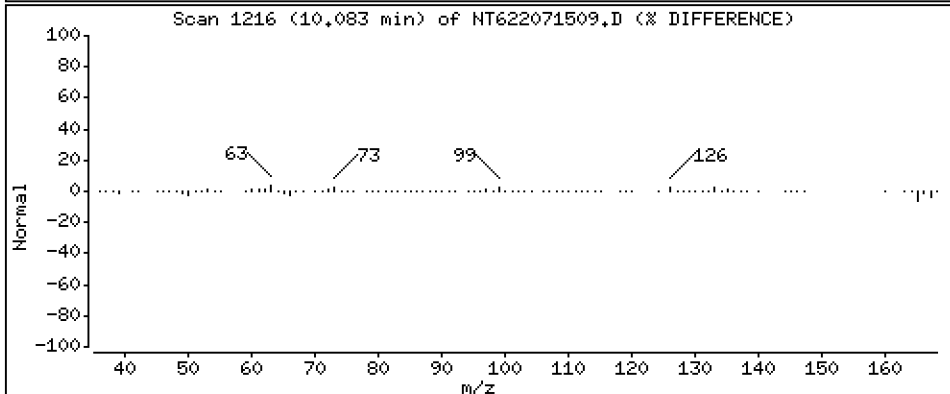
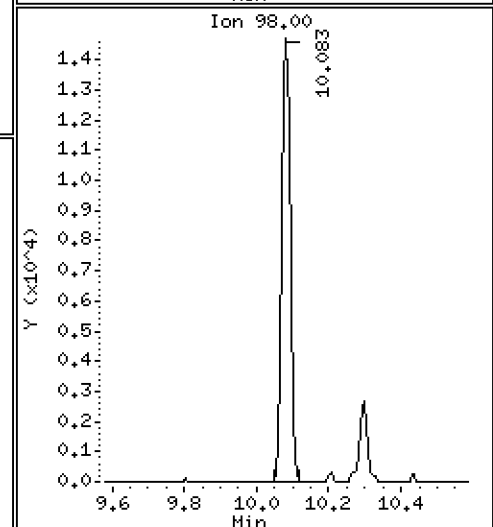
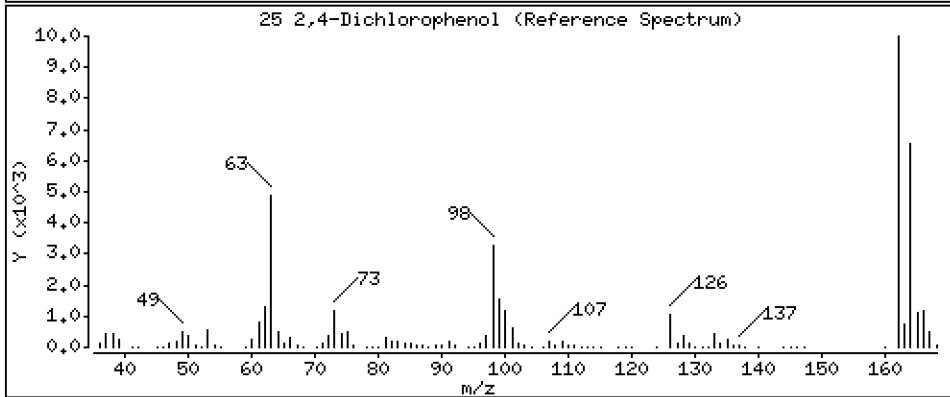
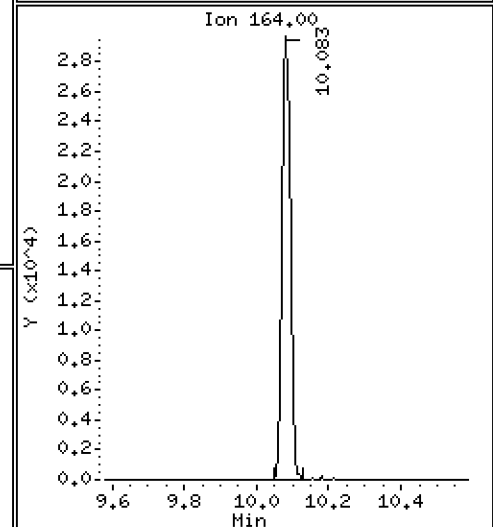
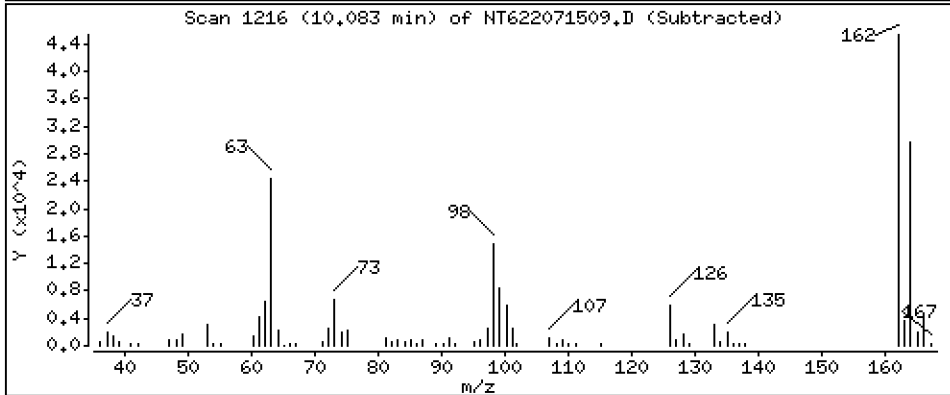
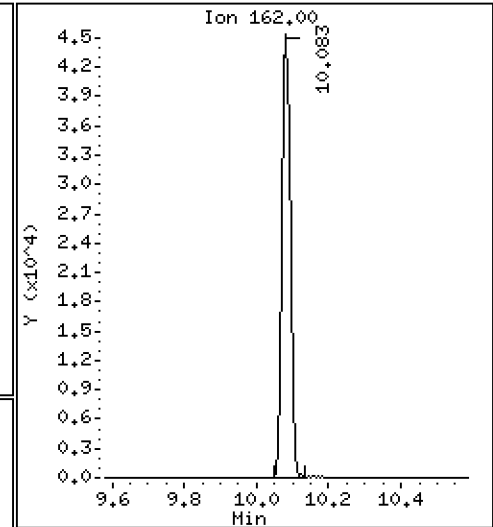
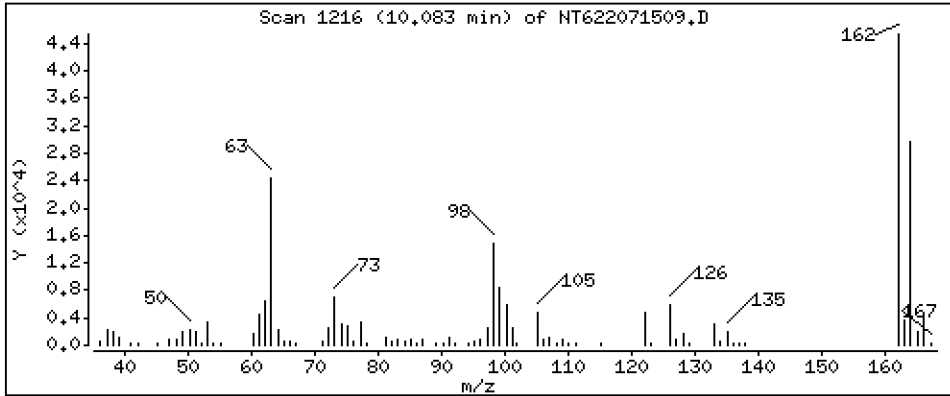
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

25 2,4-Dichlorophenol

Concentration: 24.98 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

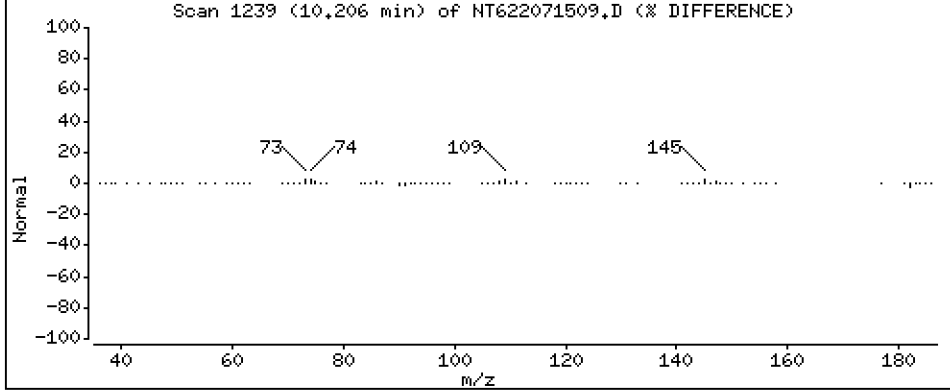
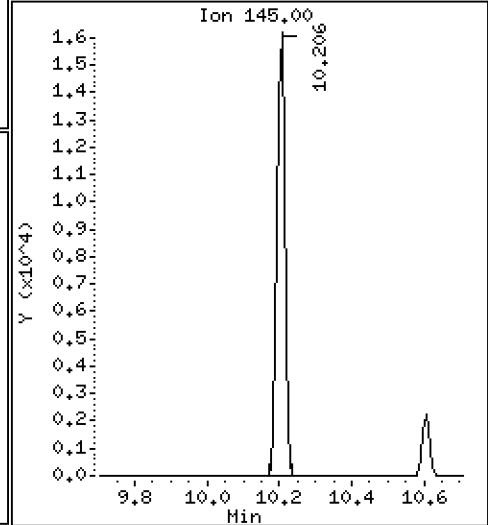
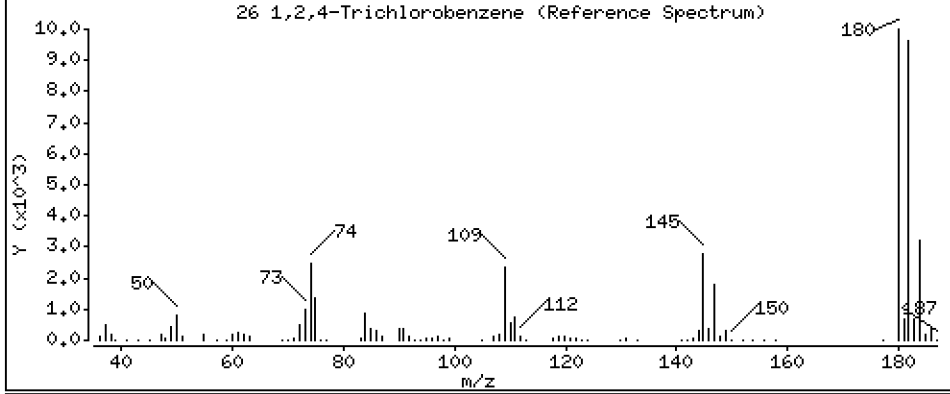
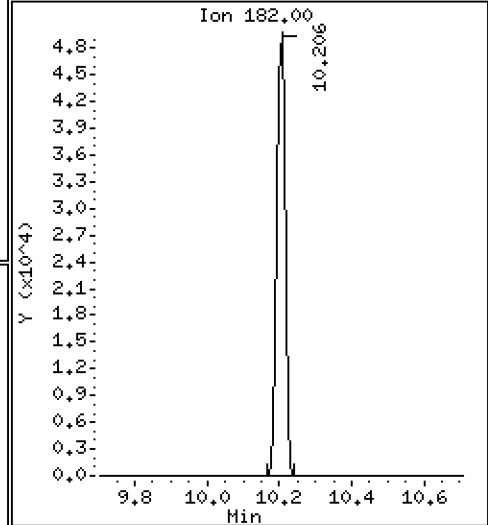
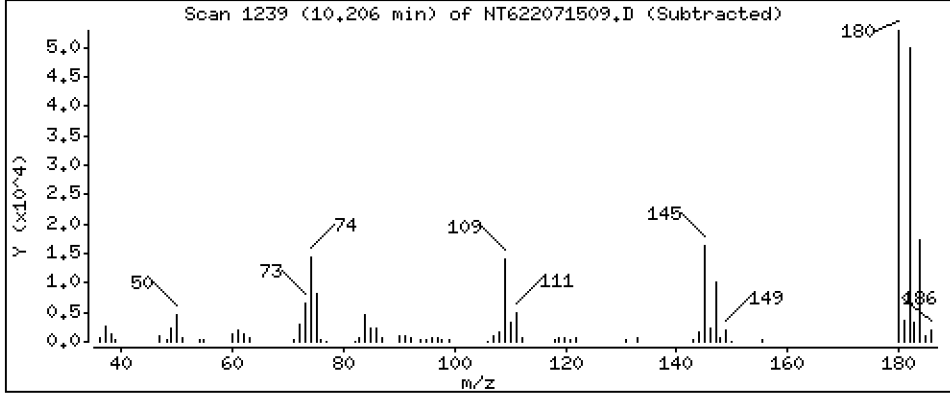
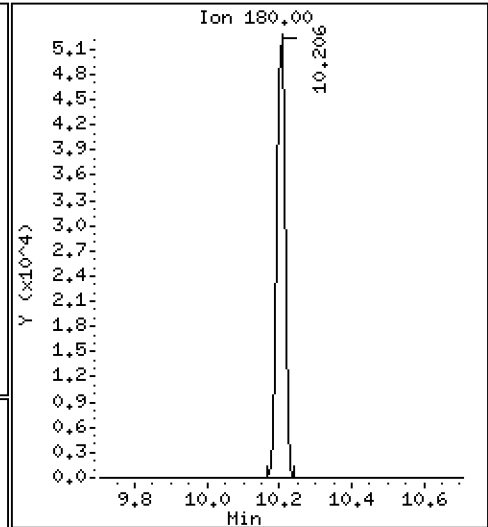
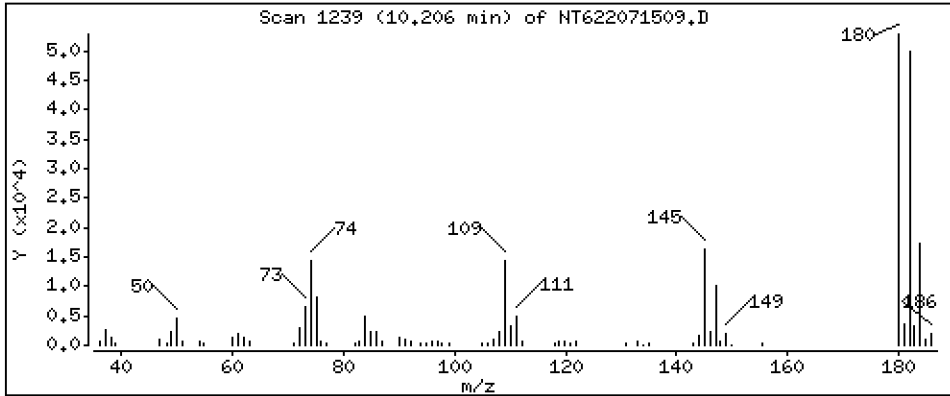
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

26 1,2,4-Trichlorobenzene

Concentration: 24.95 ug/mL



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Client ID:

Instrument: nt6.i

Sample Info: CCV220715

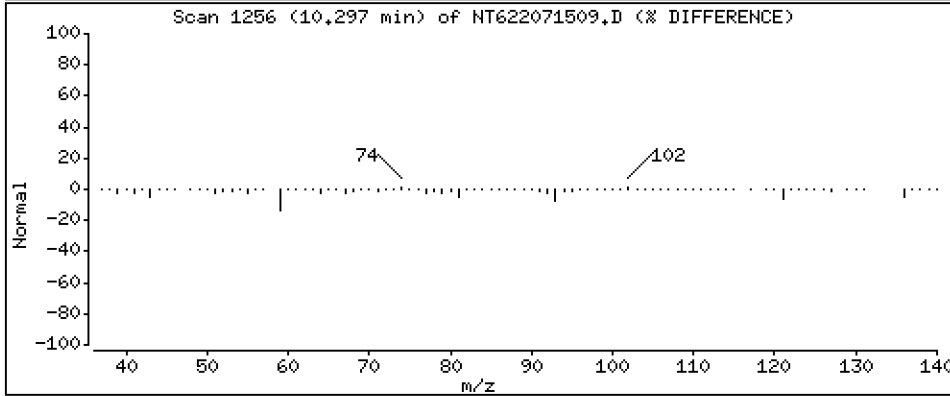
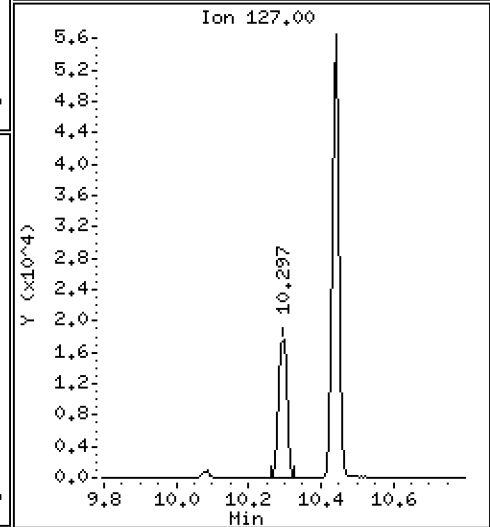
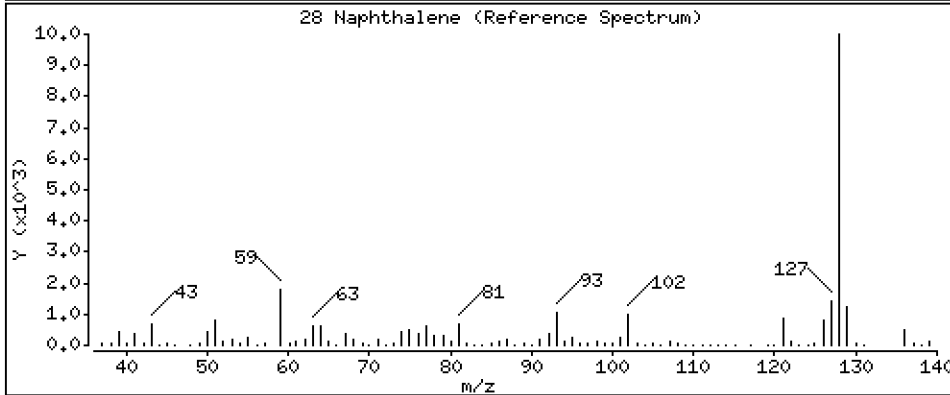
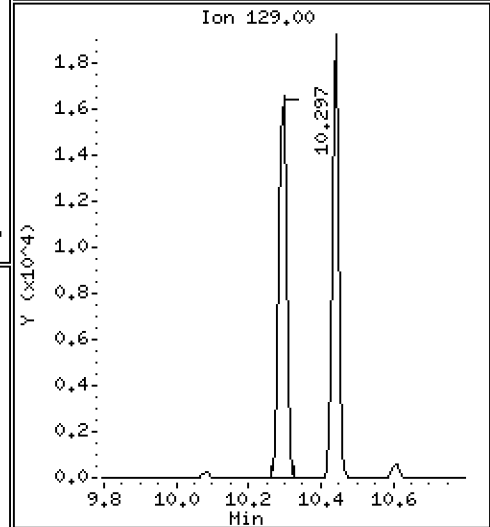
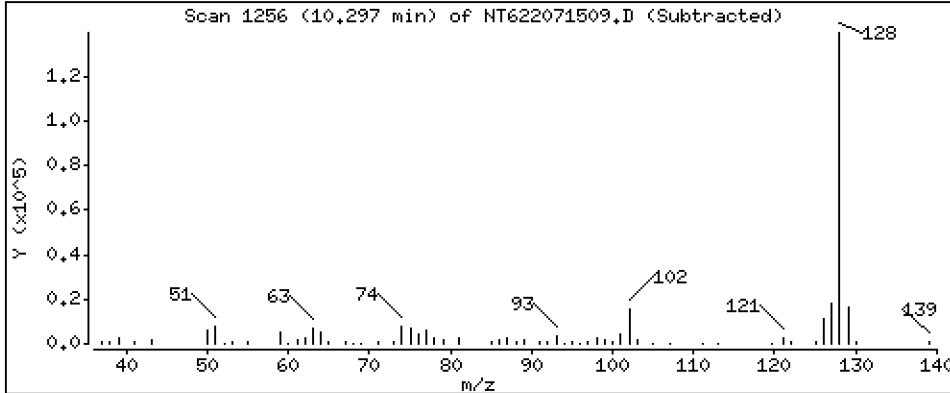
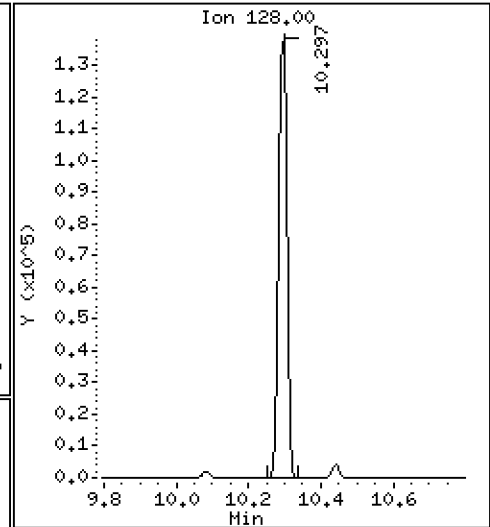
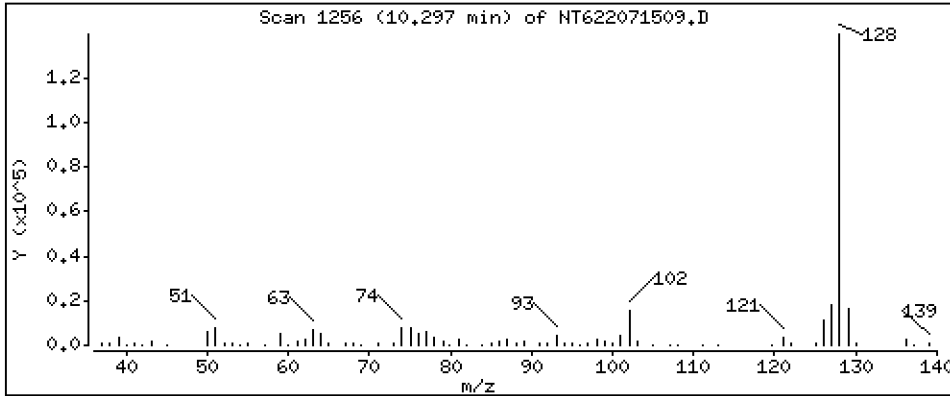
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

28 Naphthalene

Concentration: 24,70 ug/mL



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Client ID:

Instrument: nt6.i

Sample Info: CCV220715

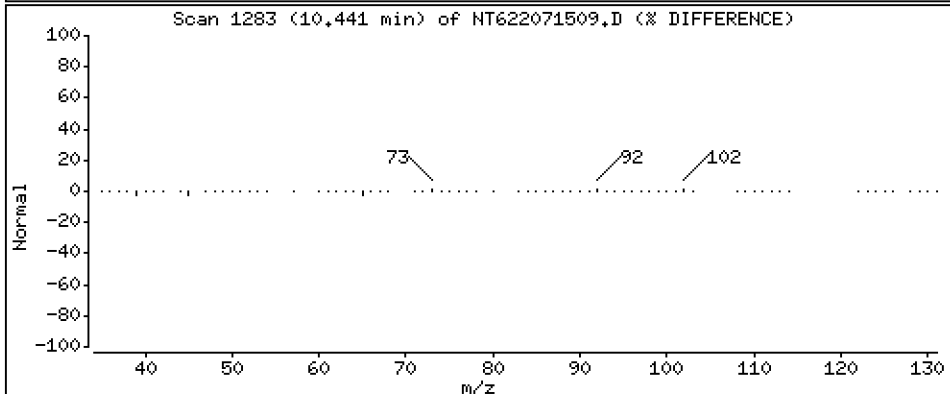
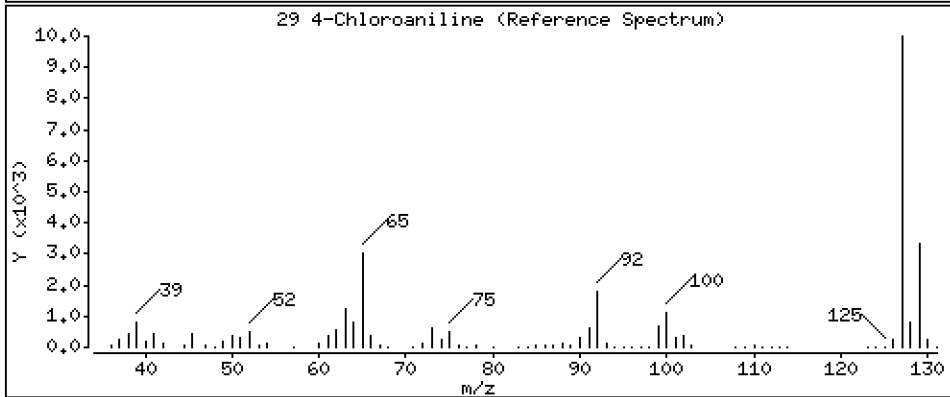
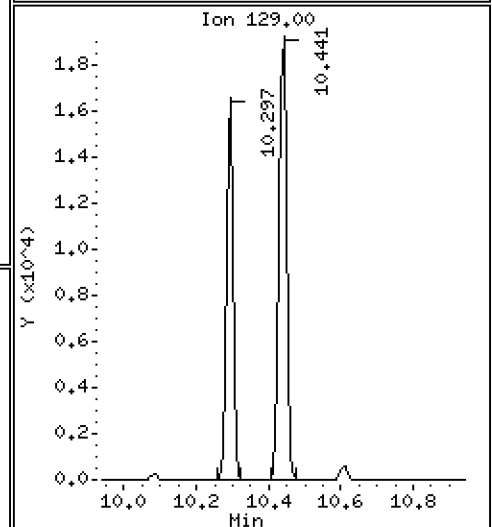
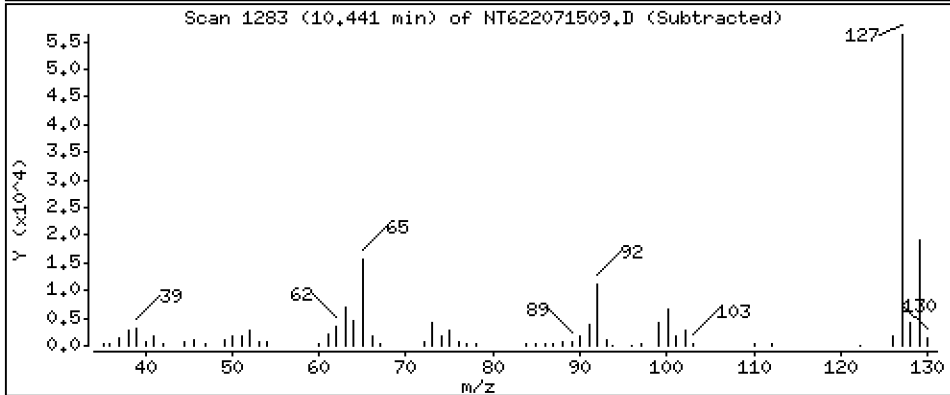
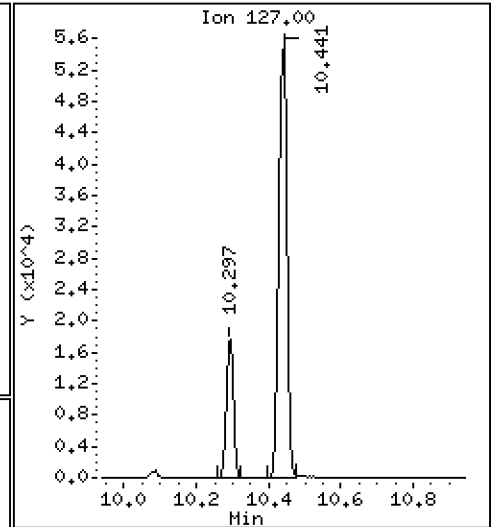
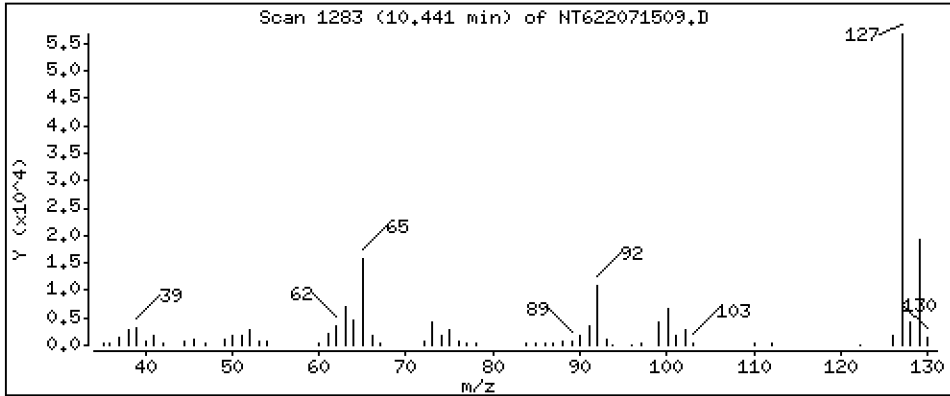
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

29 4-Chloroaniline

Concentration: 23,32 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

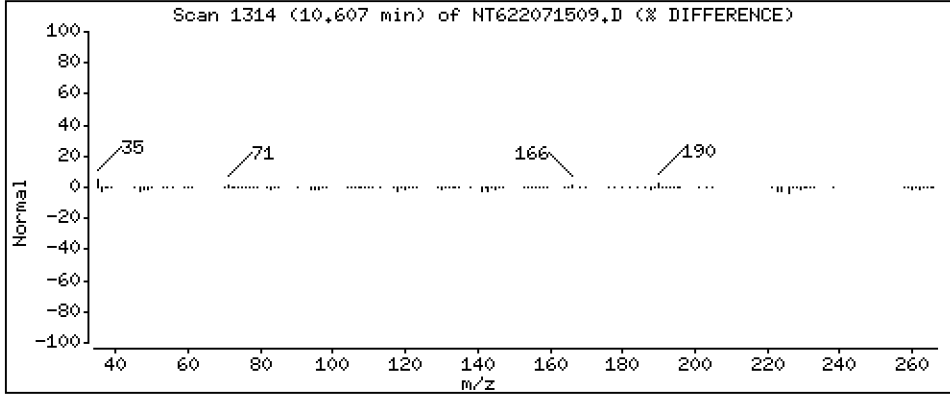
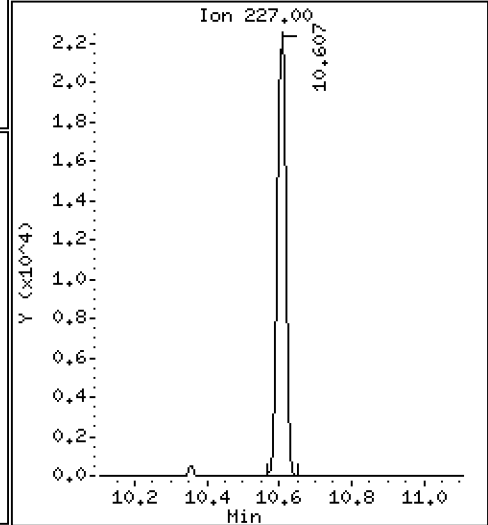
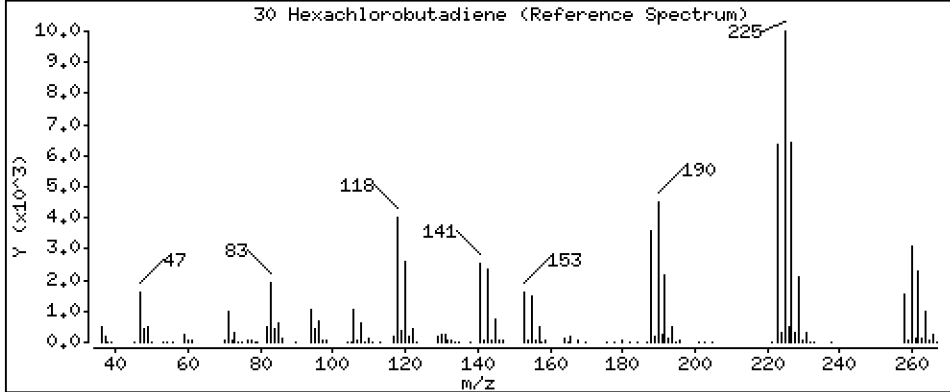
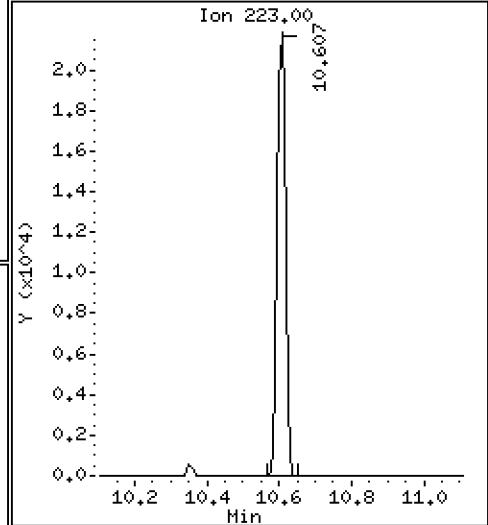
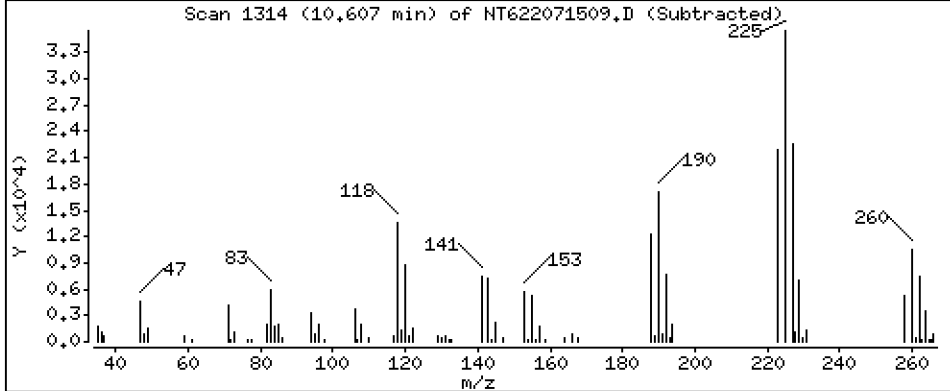
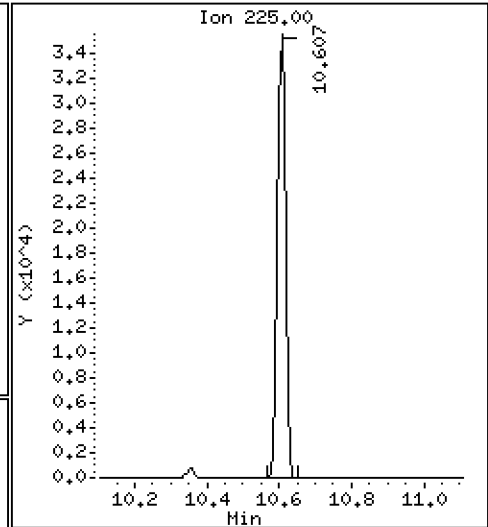
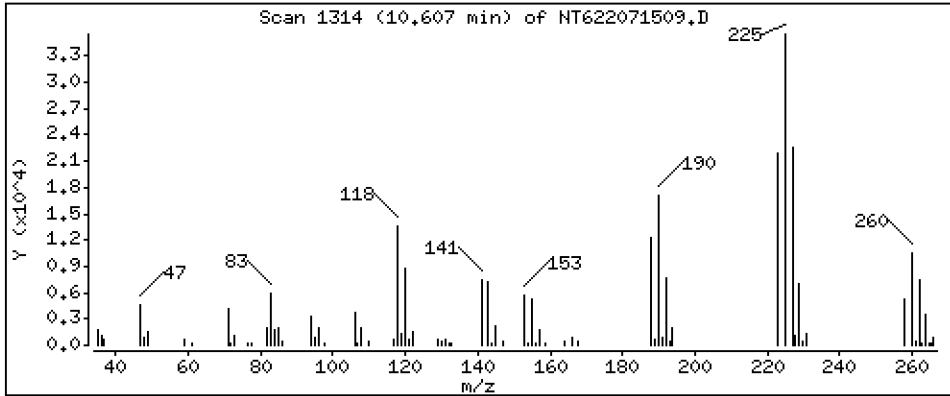
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

30 Hexachlorobutadiene

Concentration: 25.96 ug/mL



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Client ID:

Instrument: nt6.i

Sample Info: CCV220715

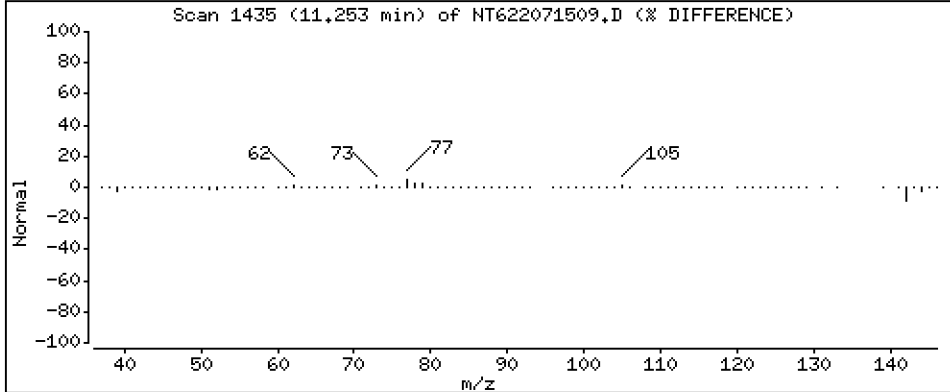
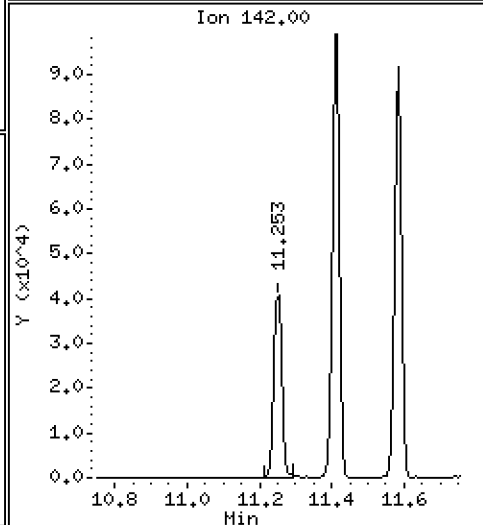
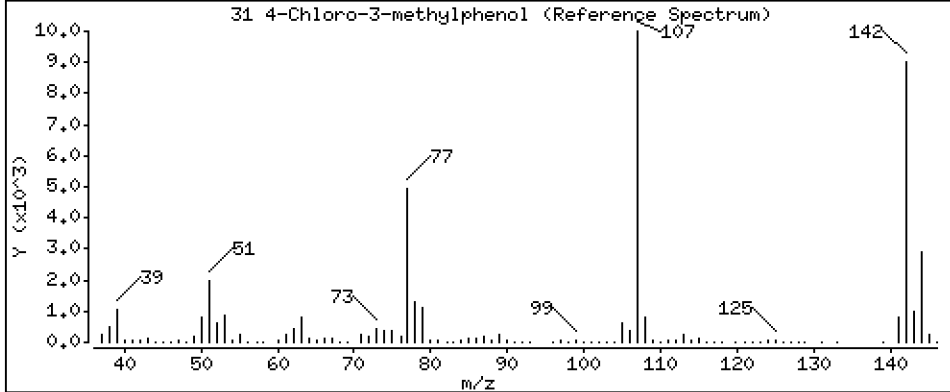
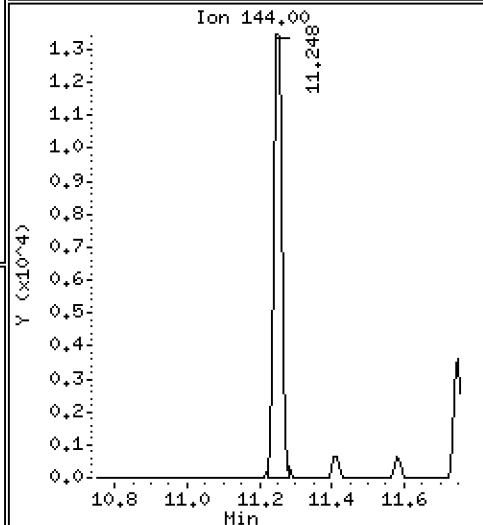
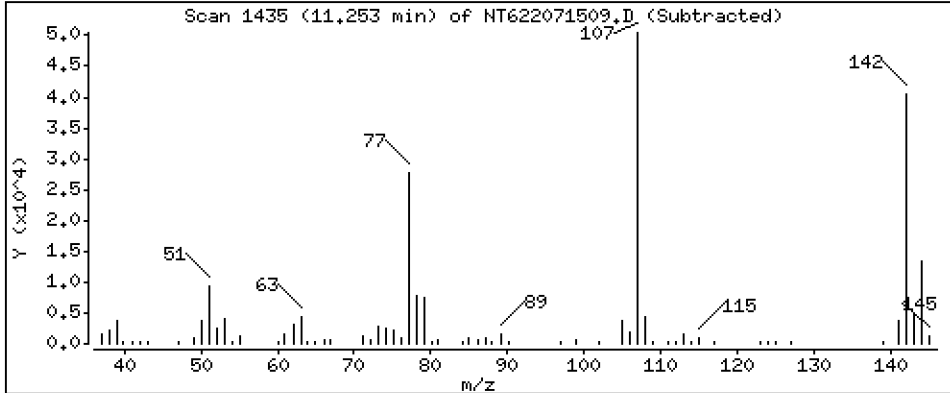
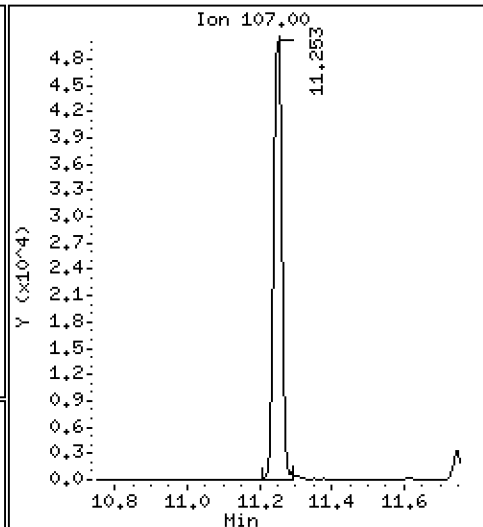
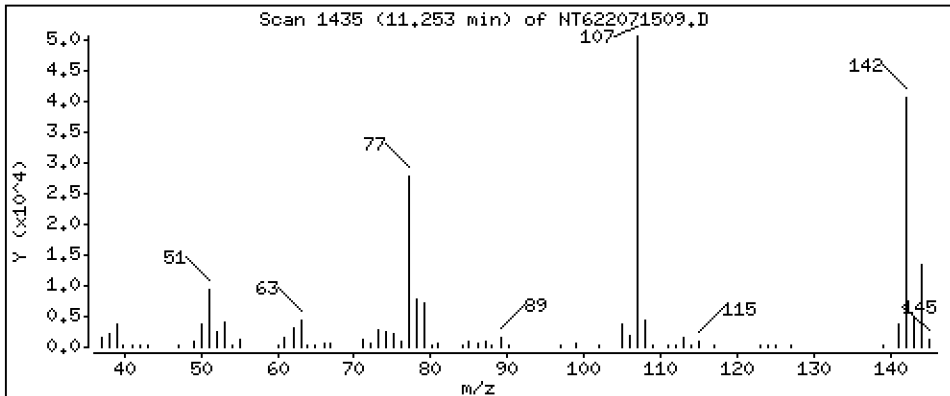
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

31 4-Chloro-3-methylphenol

Concentration: 26.40 ug/mL



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Client ID:

Instrument: nt6.i

Sample Info: CCV220715

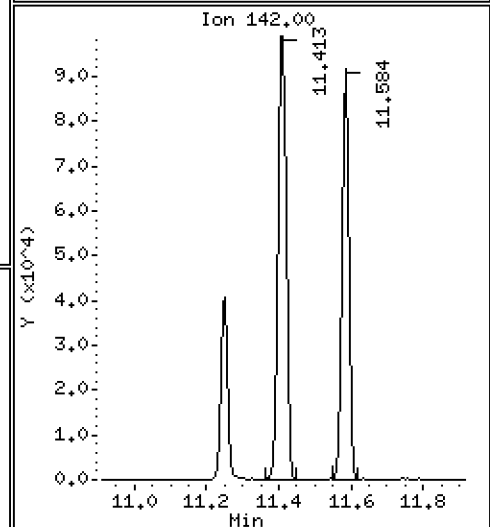
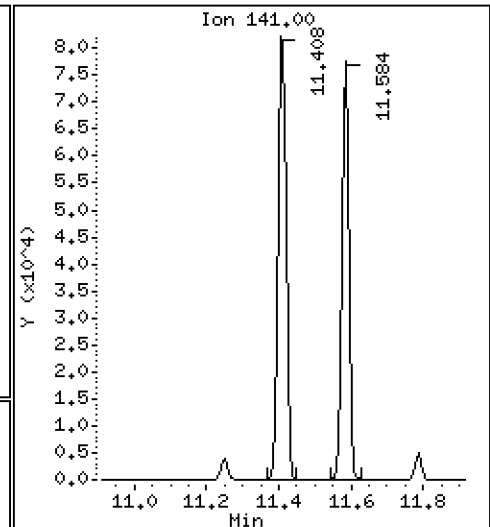
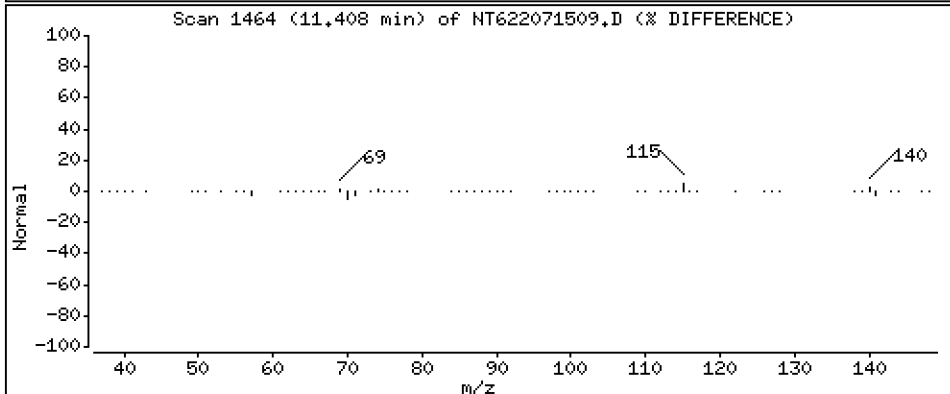
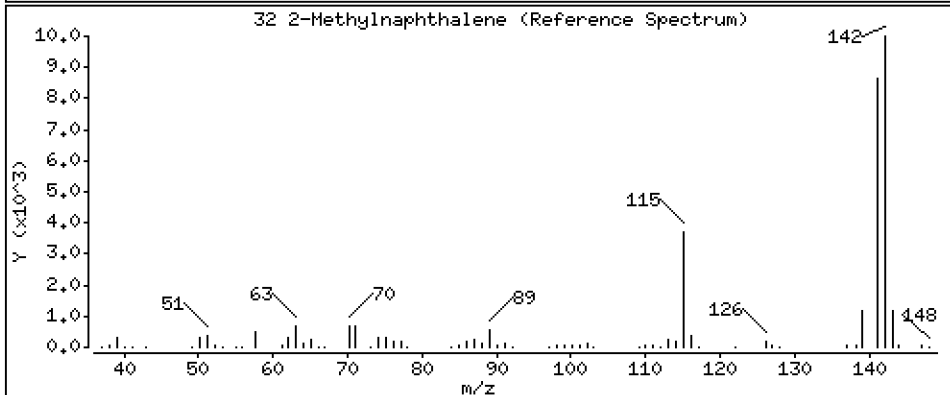
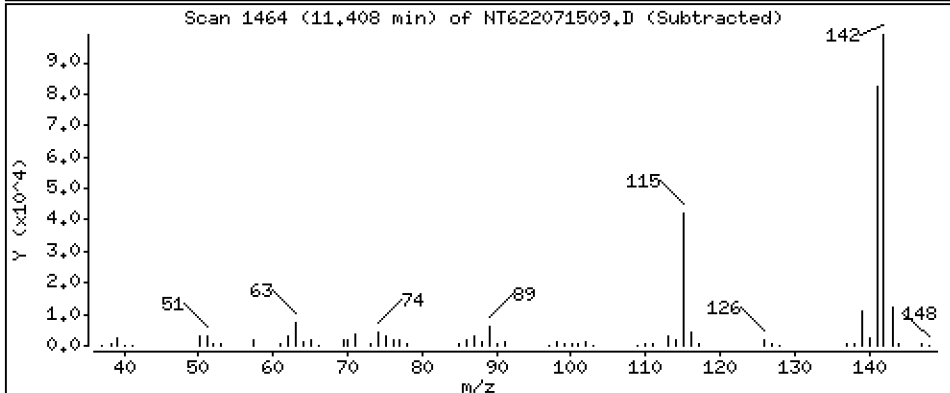
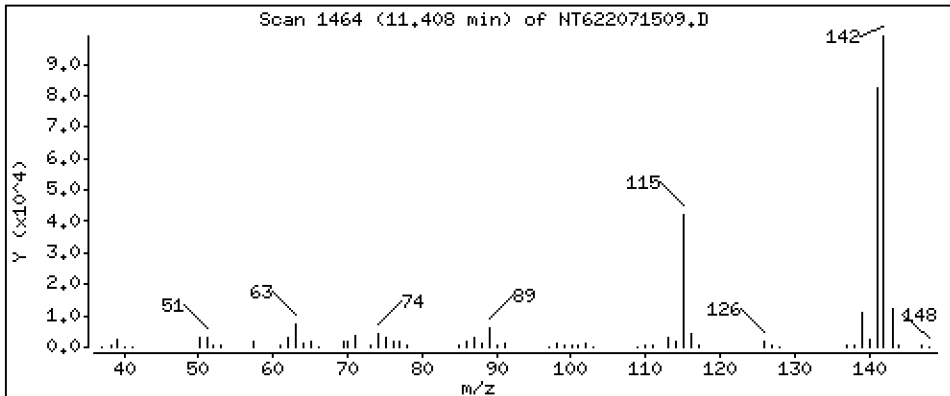
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

32 2-Methylnaphthalene

Concentration: 25,36 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

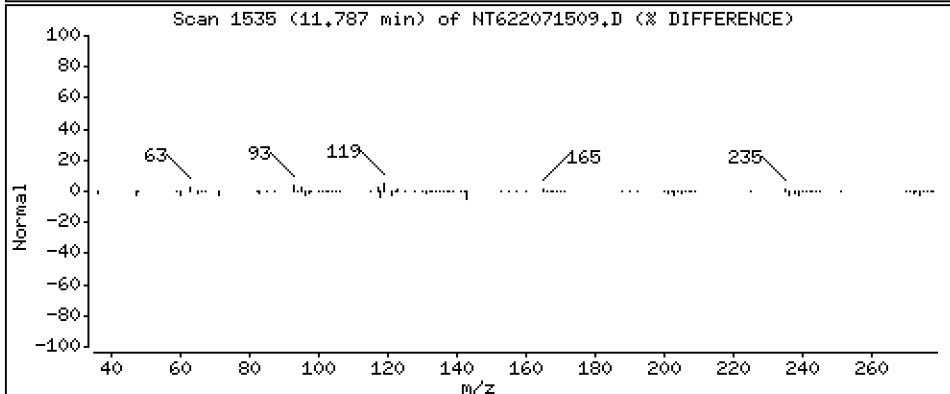
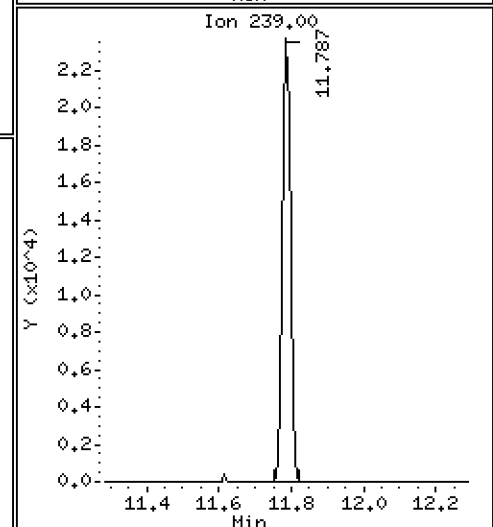
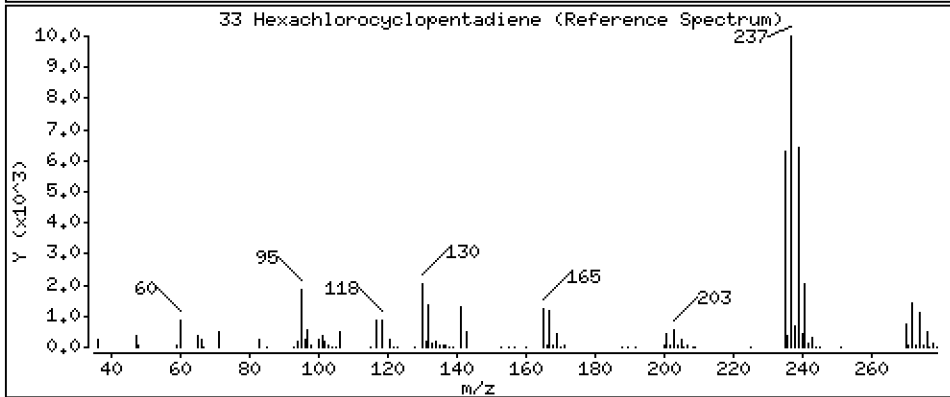
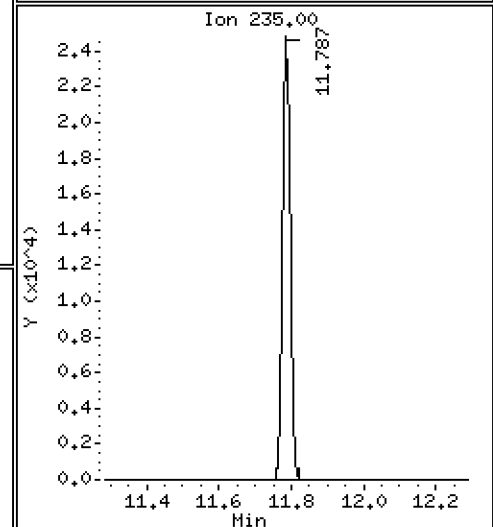
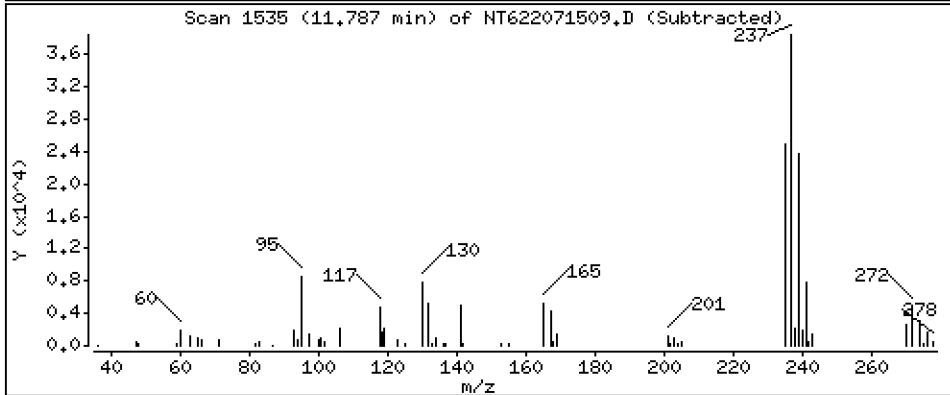
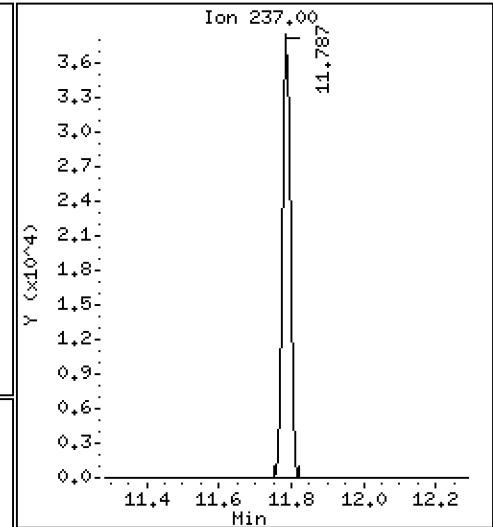
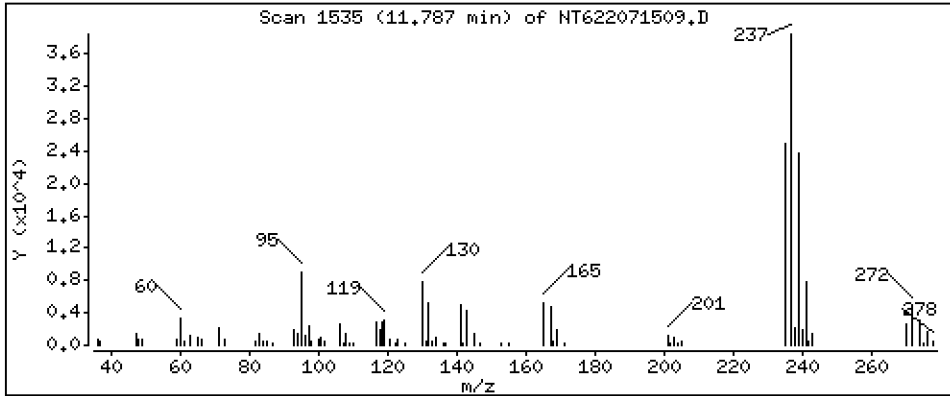
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

33 Hexachlorocyclopentadiene

Concentration: 22.72 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

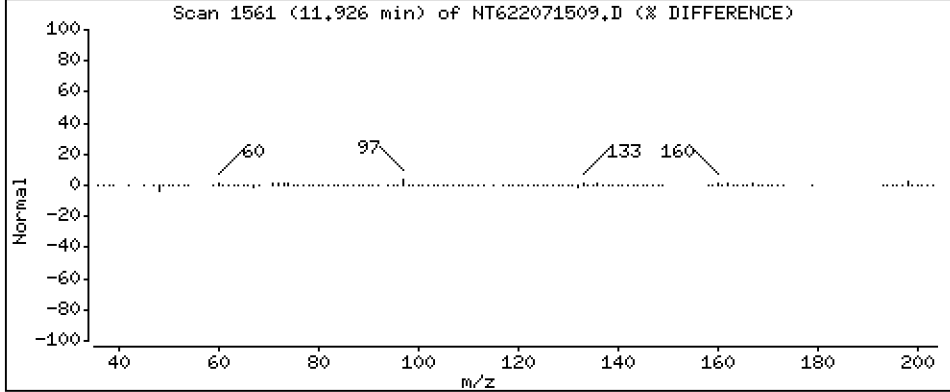
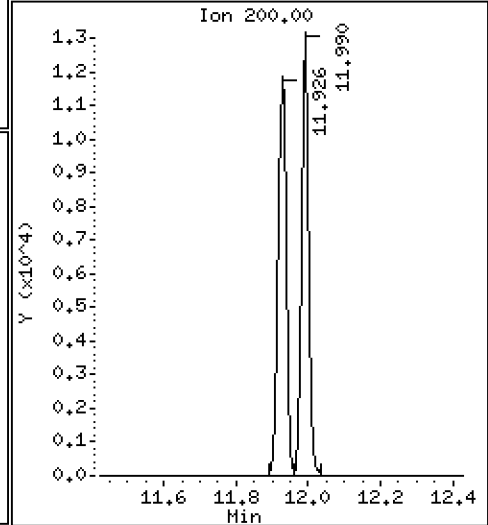
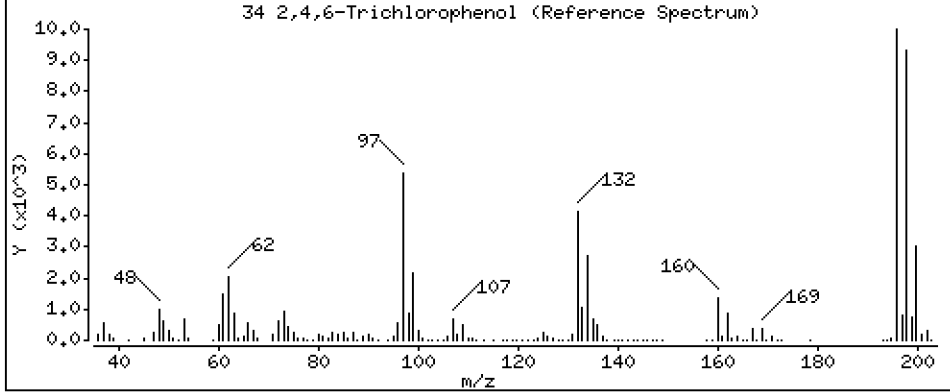
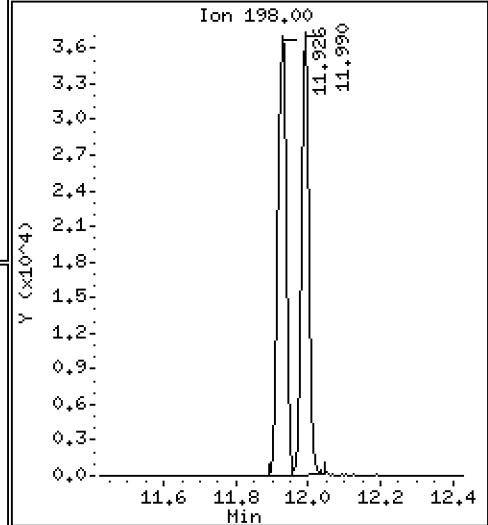
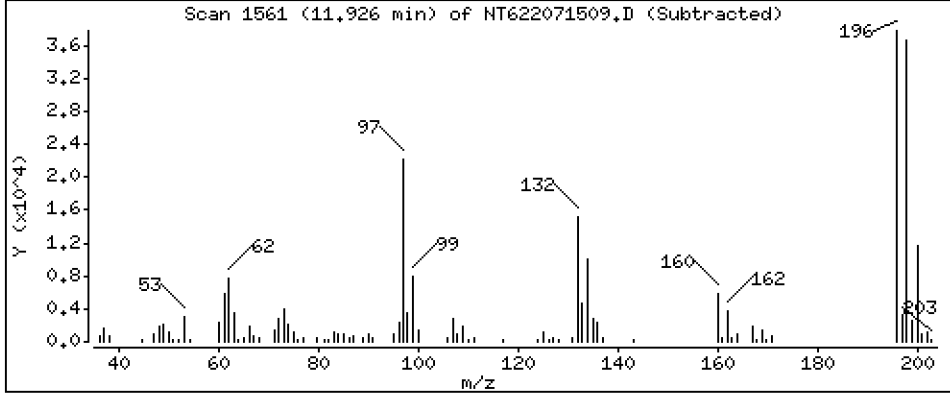
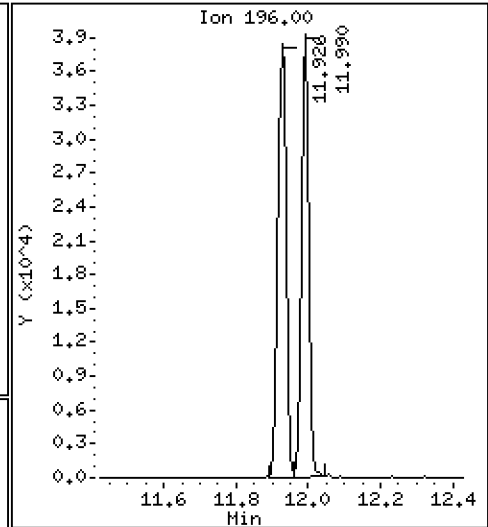
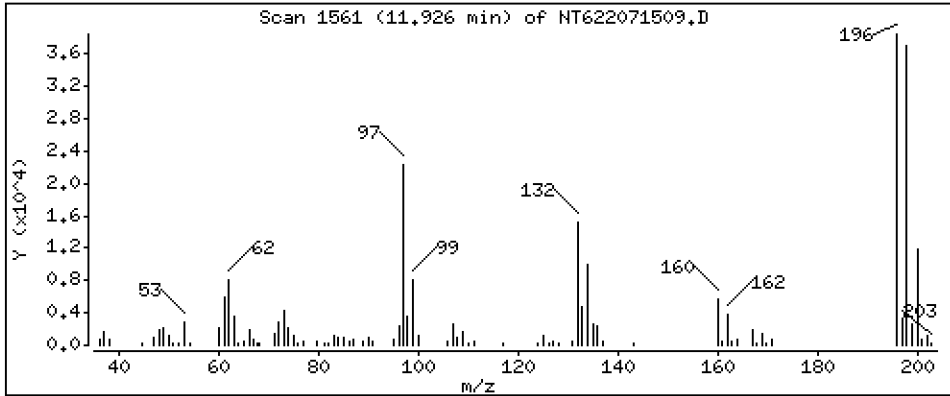
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

34 2,4,6-Trichlorophenol

Concentration: 24.14 ug/mL



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Client ID:

Instrument: nt6.i

Sample Info: CCV220715

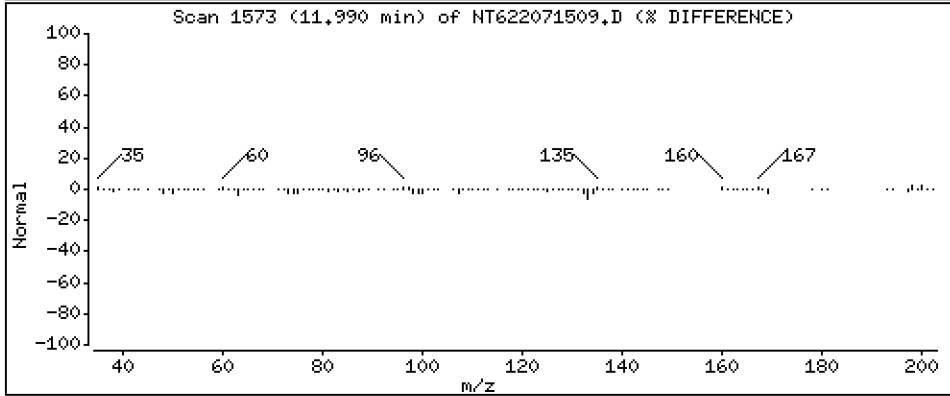
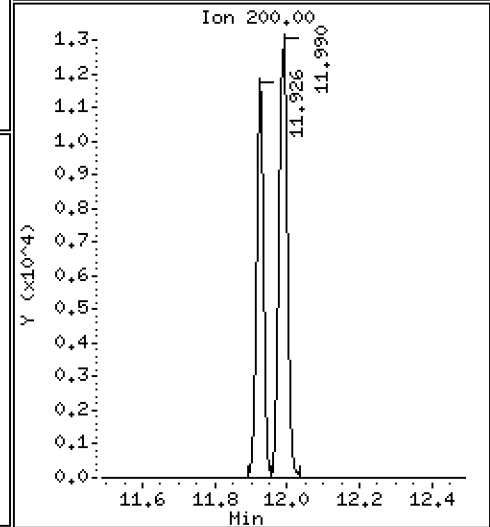
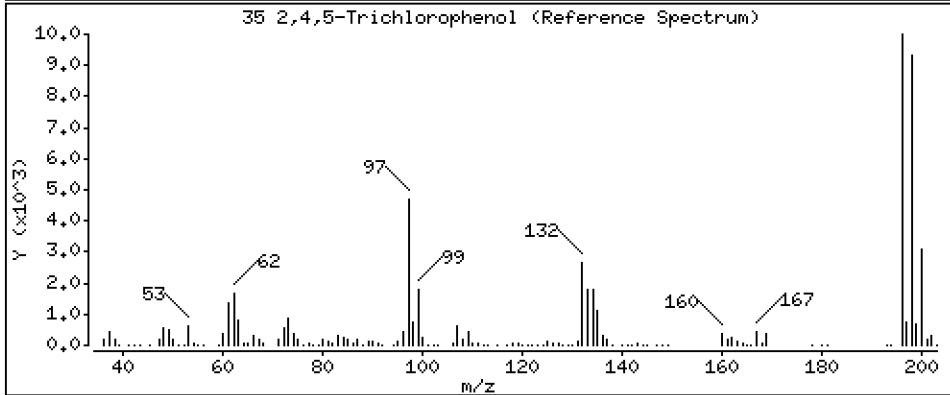
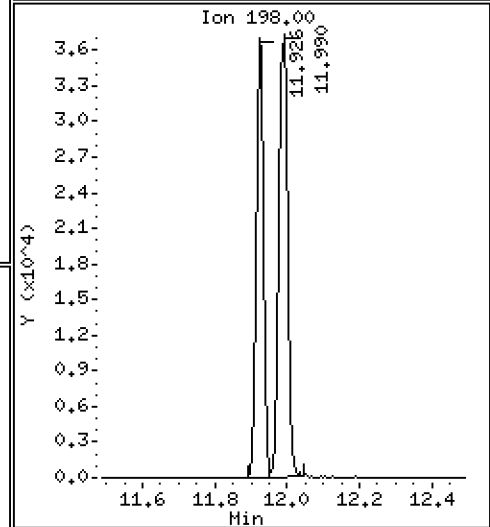
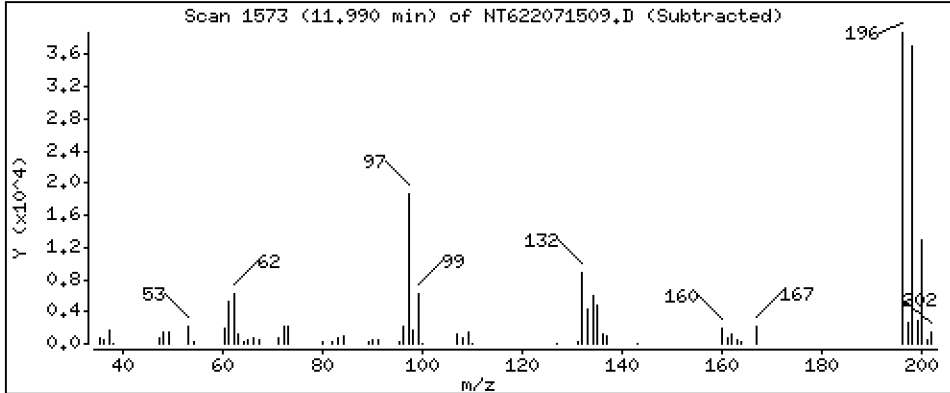
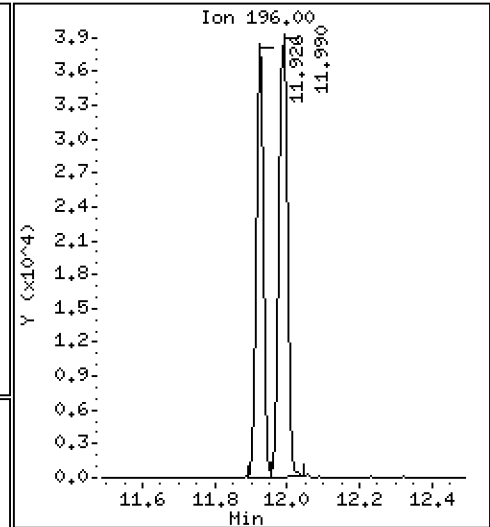
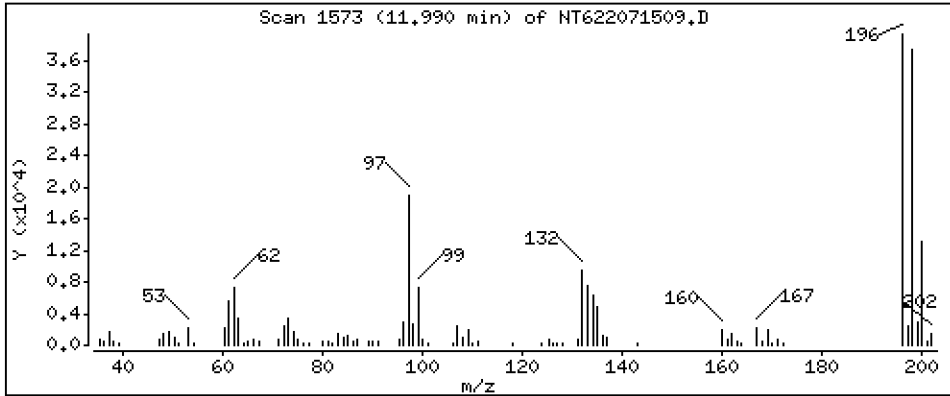
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

35 2,4,5-Trichlorophenol

Concentration: 23.27 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

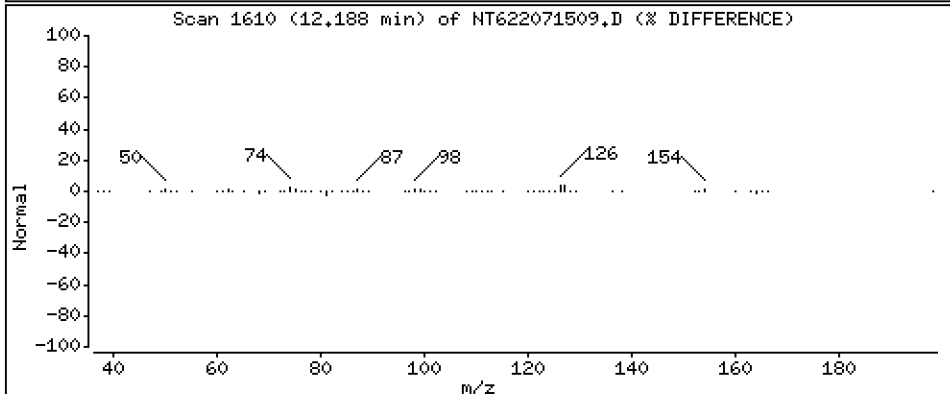
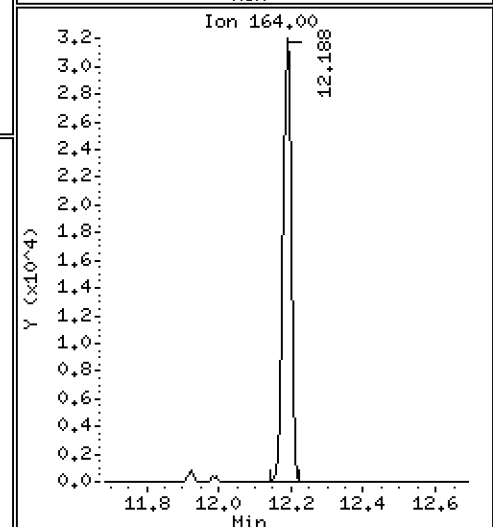
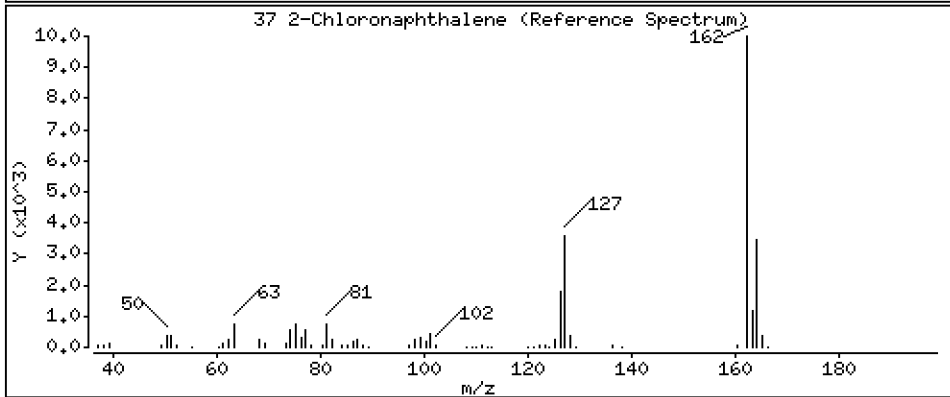
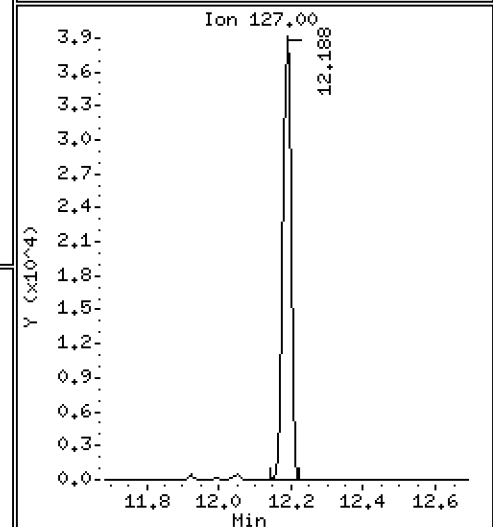
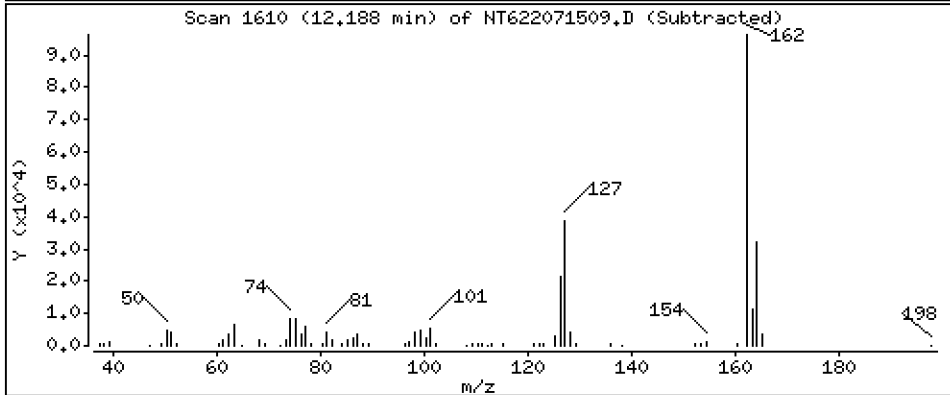
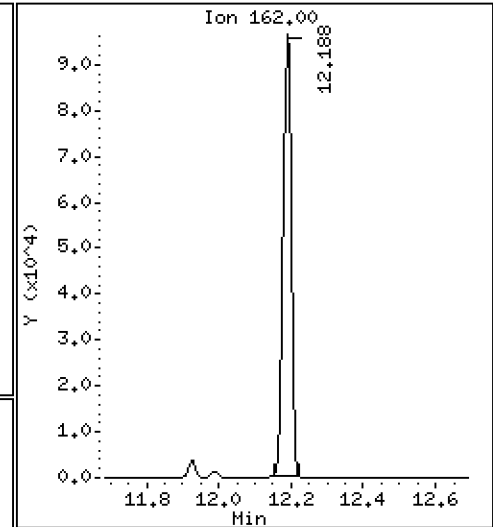
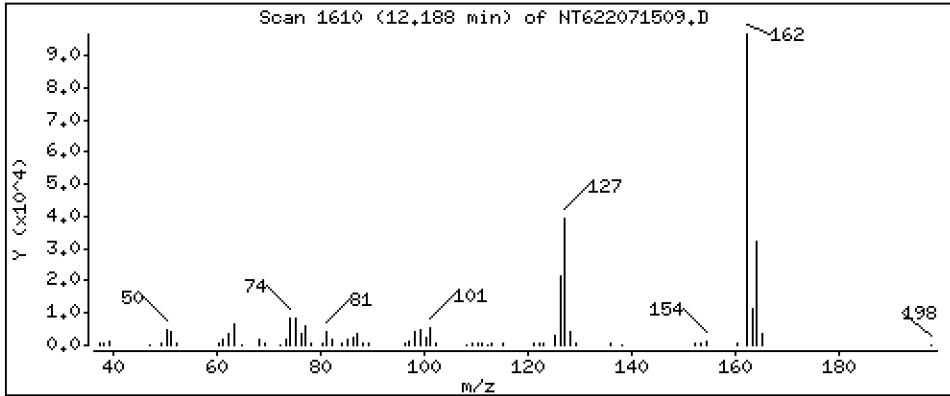
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

37 2-Chloronaphthalene

Concentration: 22,64 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

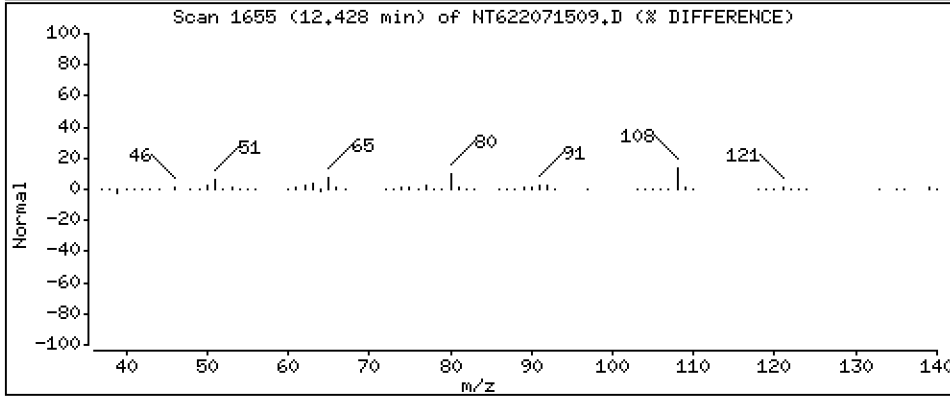
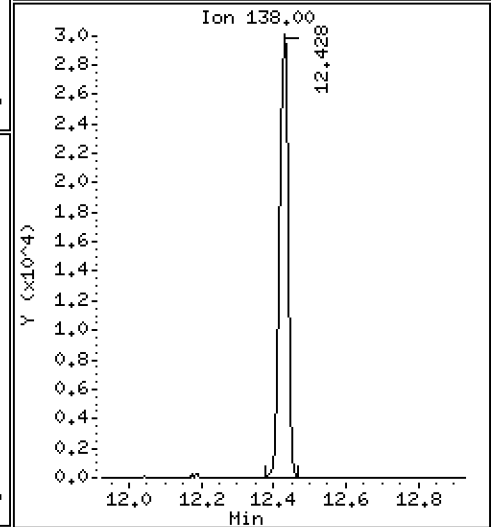
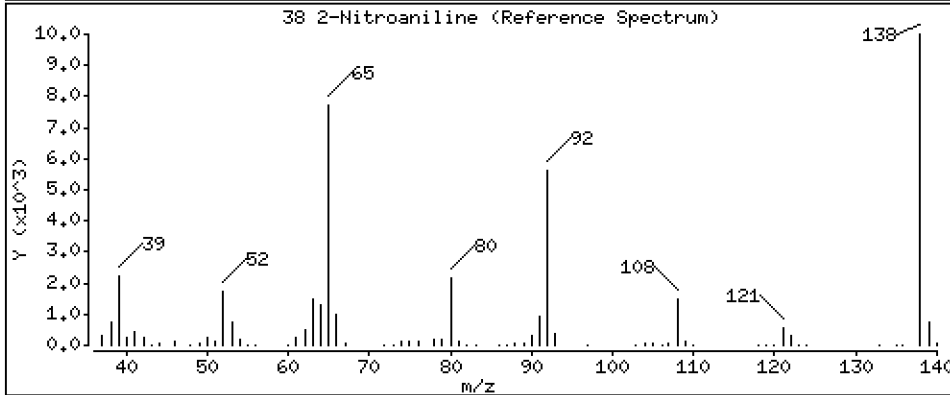
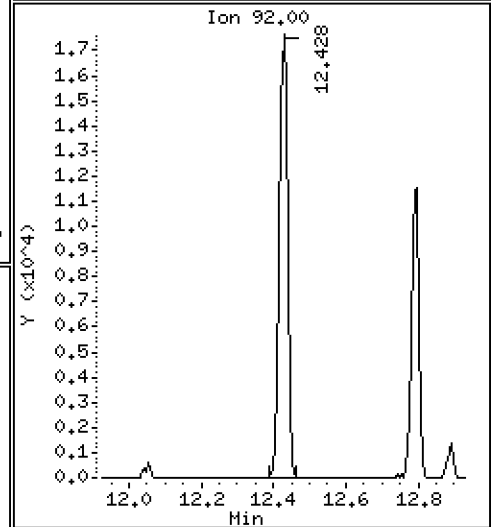
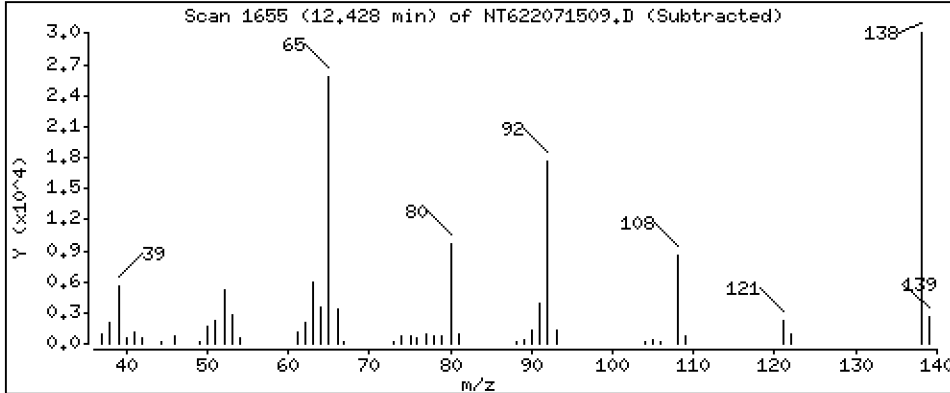
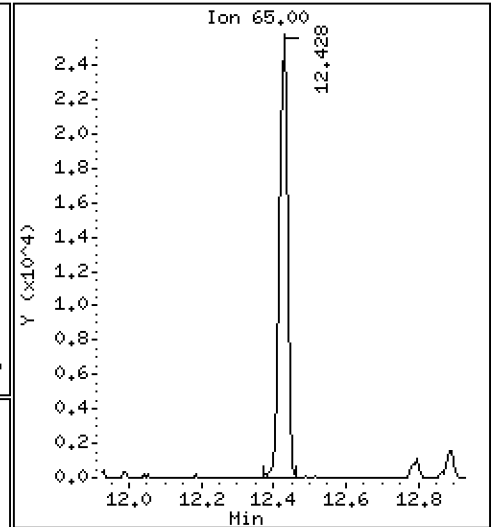
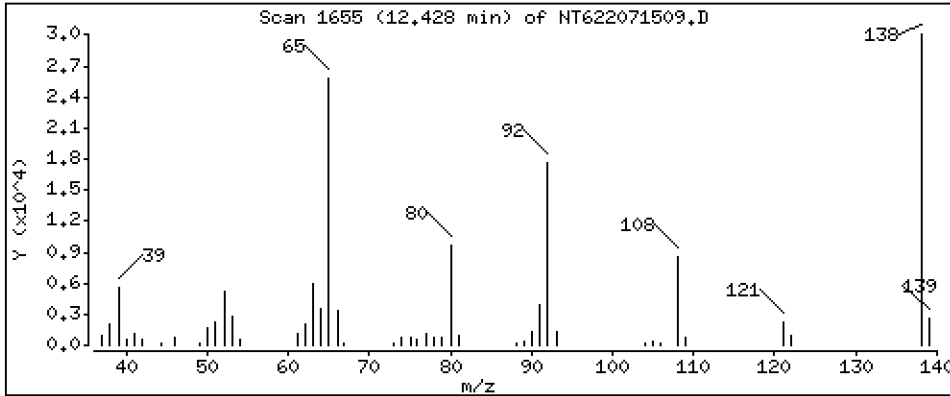
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

38 2-Nitroaniline

Concentration: 23.72 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

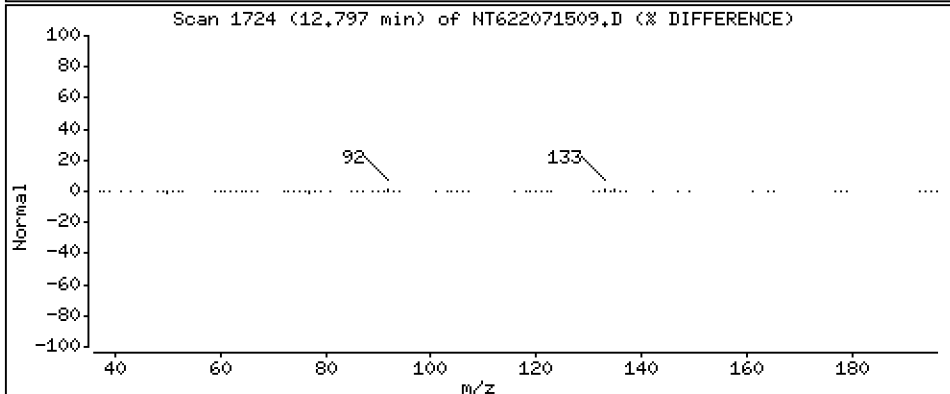
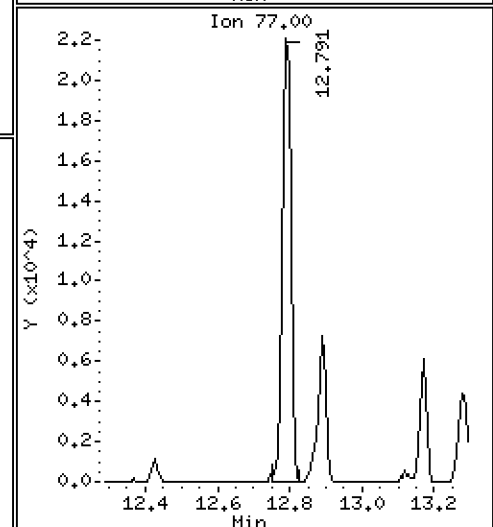
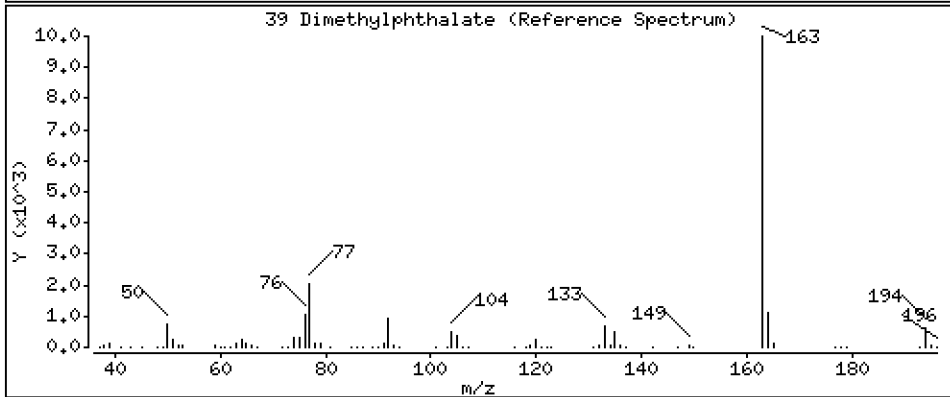
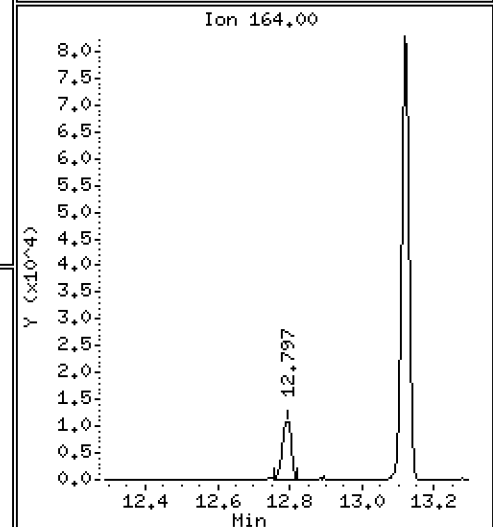
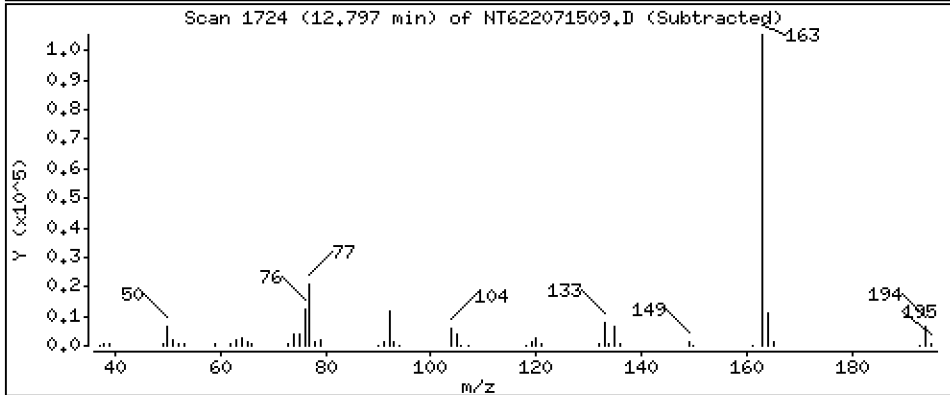
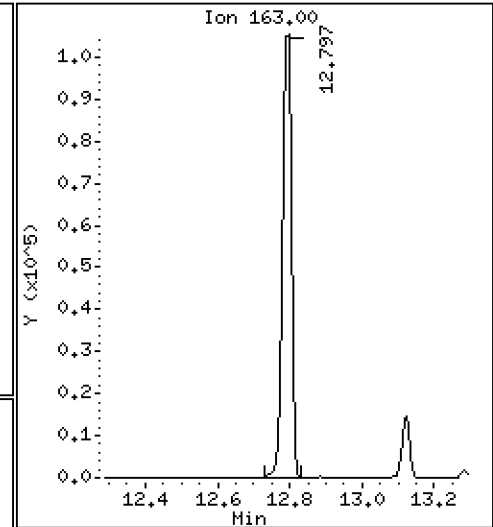
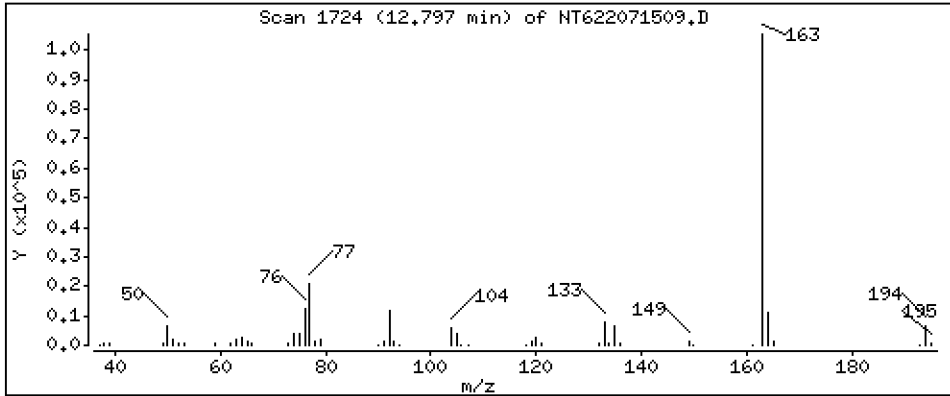
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

39 Dimethylphthalate

Concentration: 24.61 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

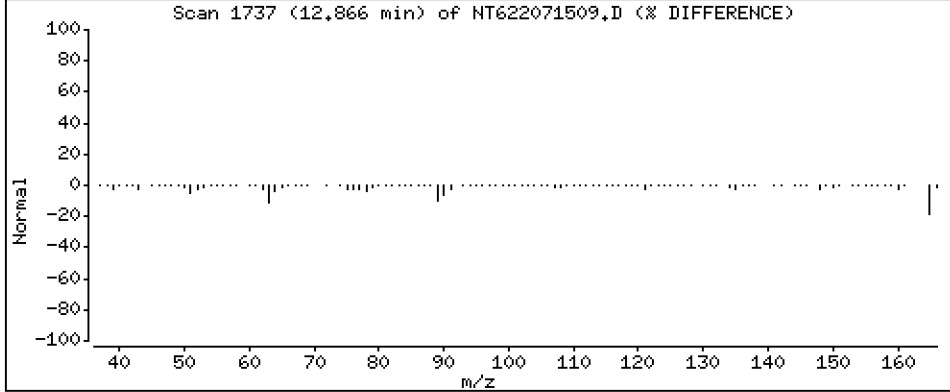
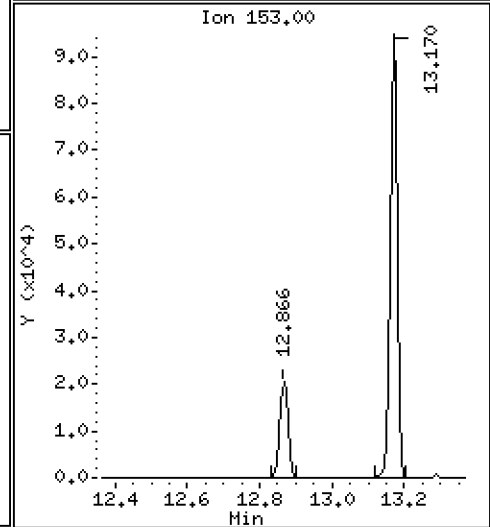
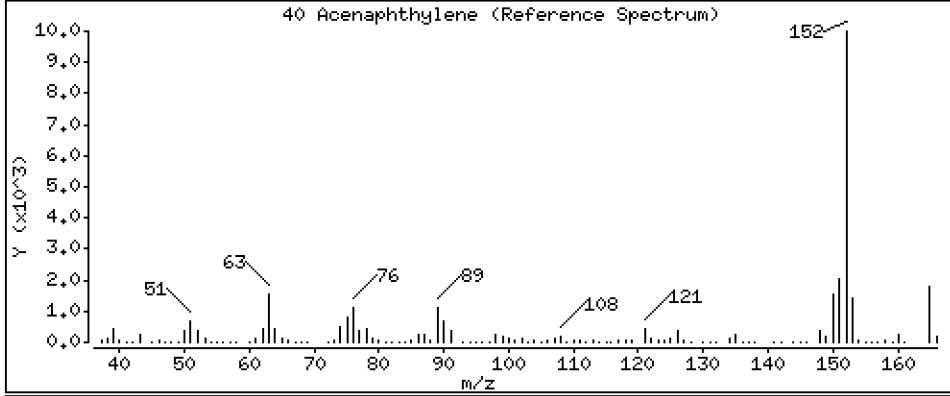
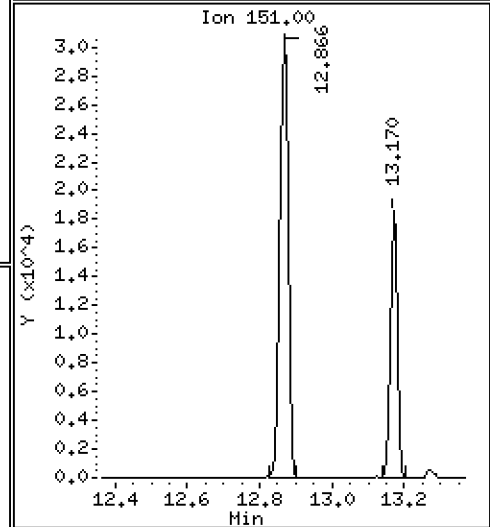
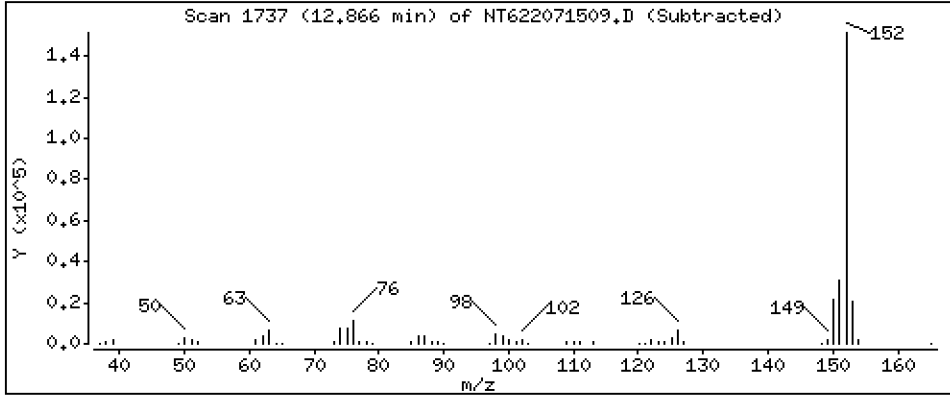
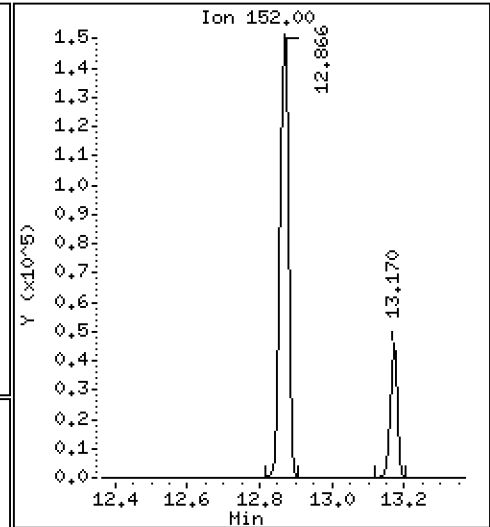
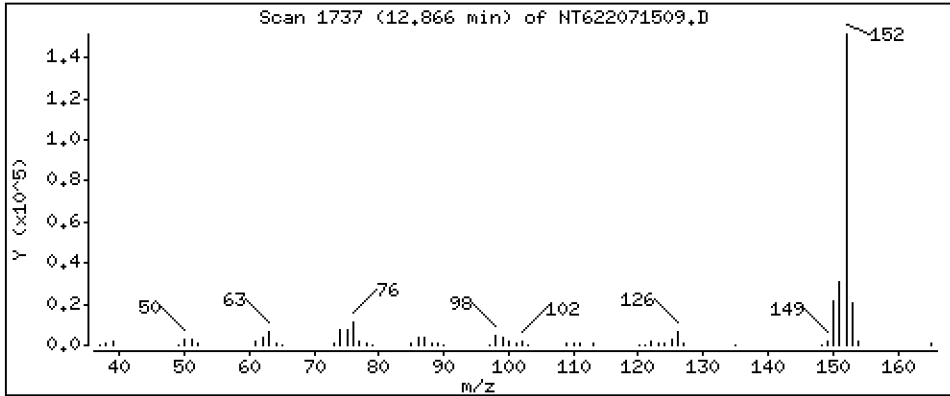
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

40 Acenaphthylene

Concentration: 23,20 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

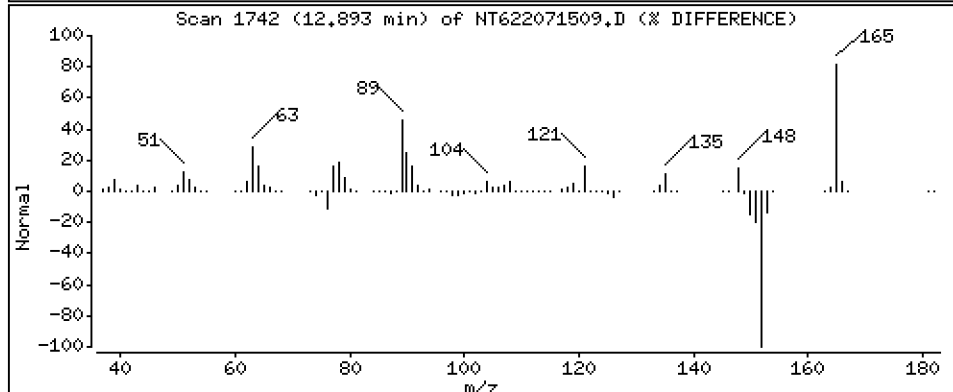
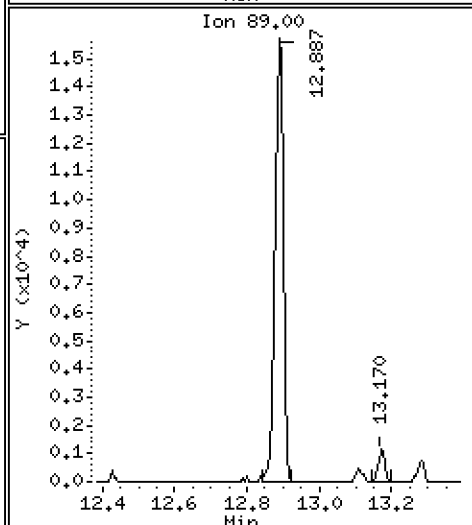
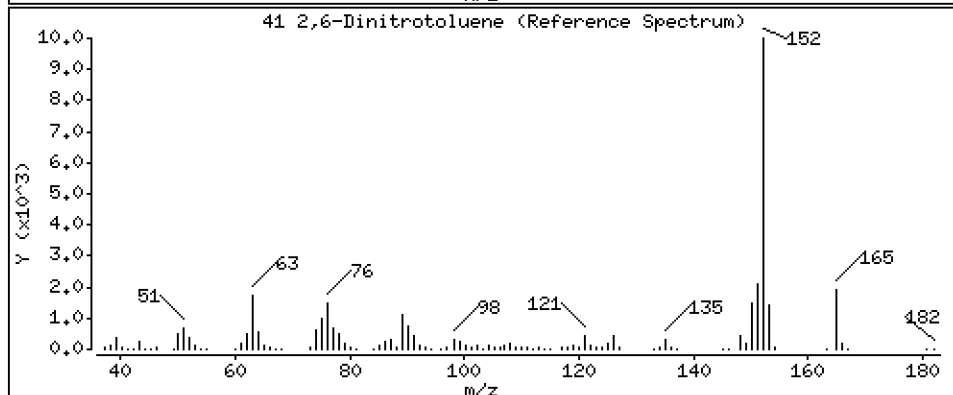
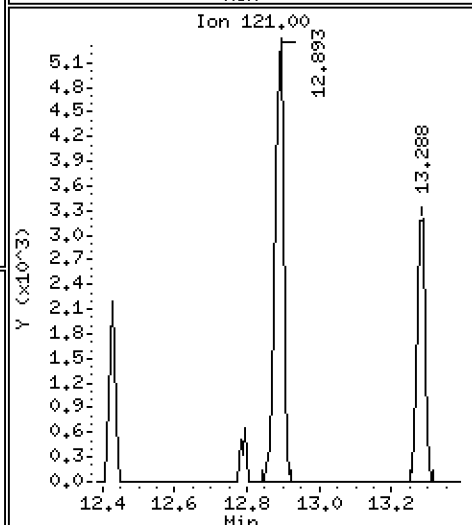
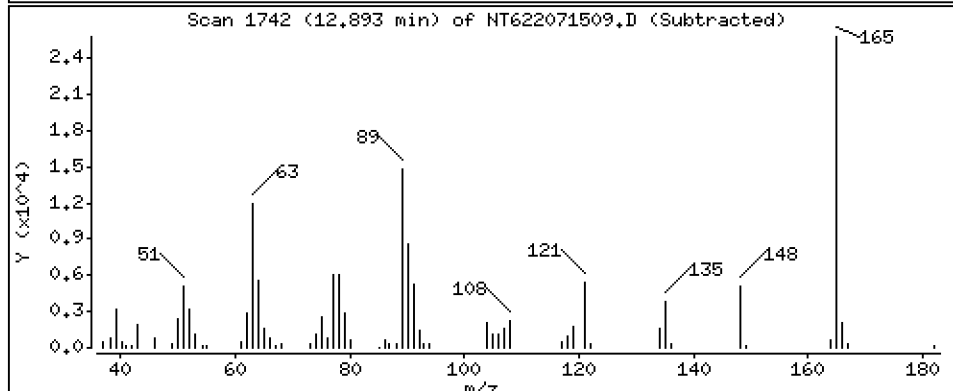
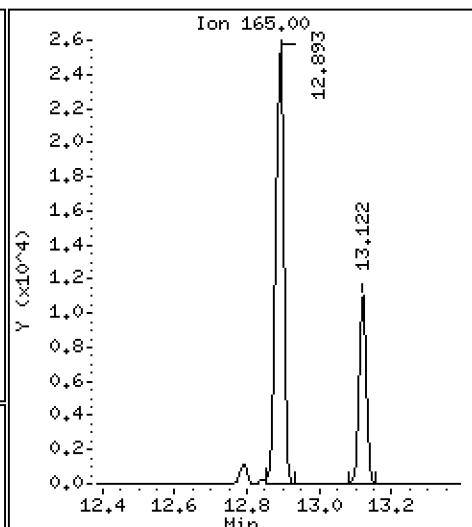
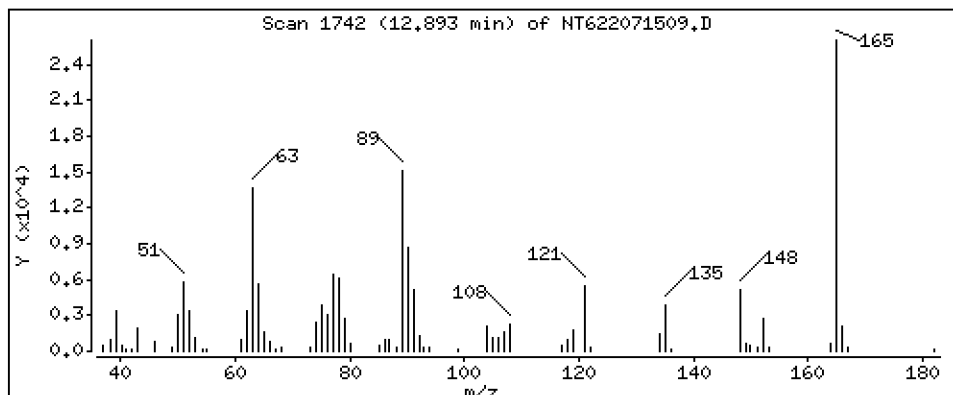
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

41 2,6-Dinitrotoluene

Concentration: 24.11 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

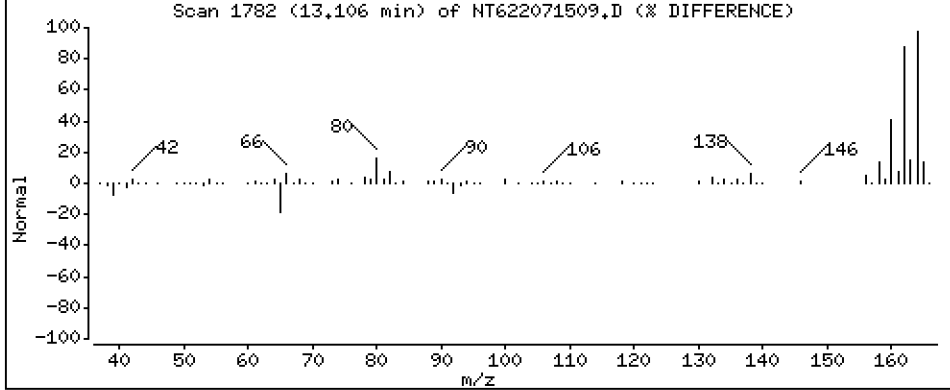
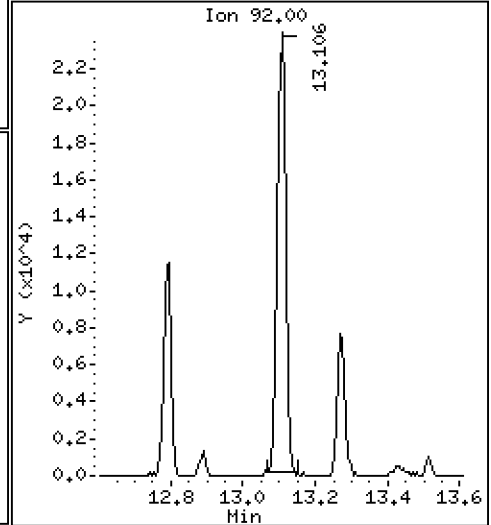
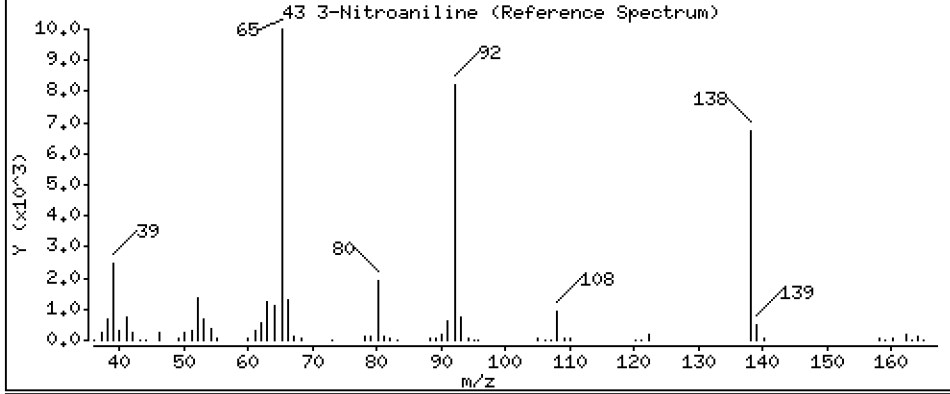
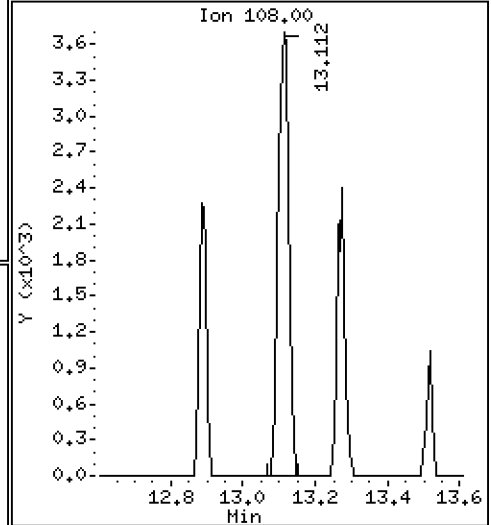
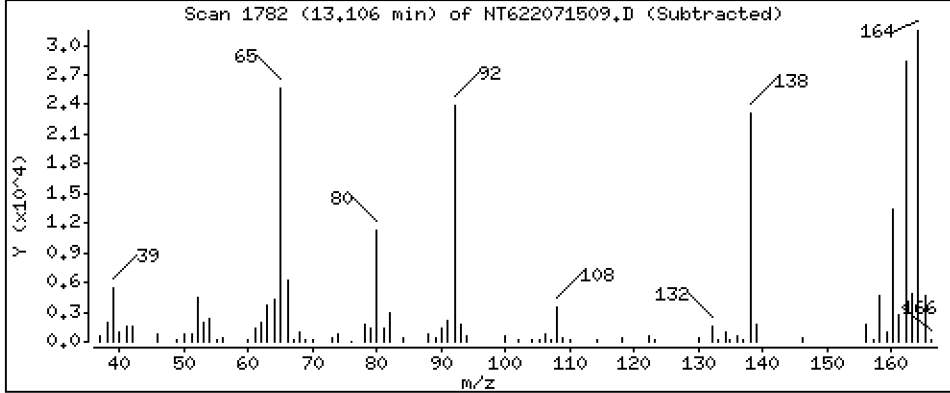
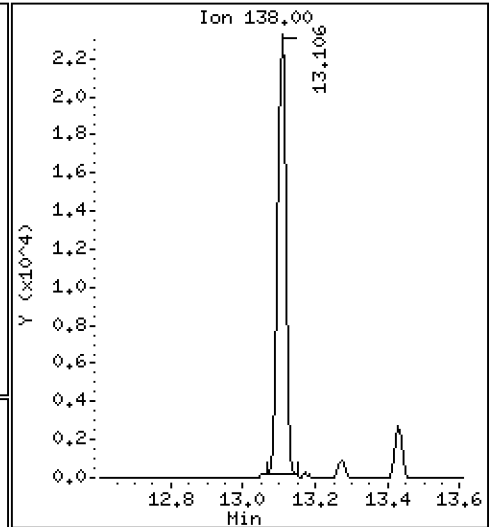
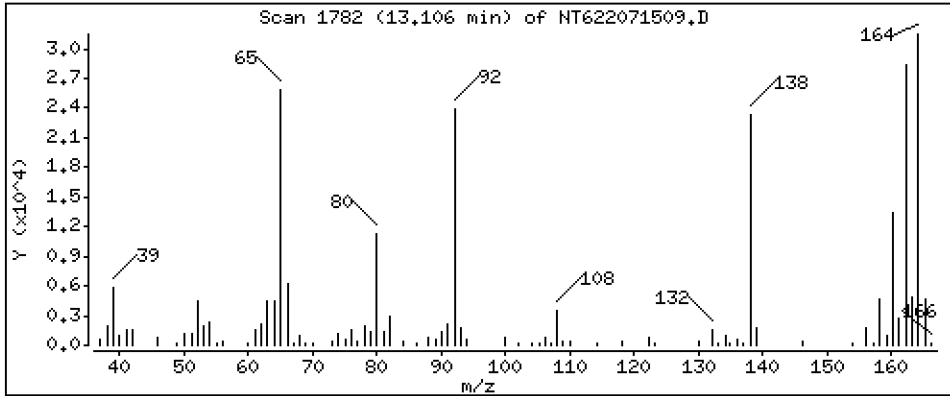
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

43 3-Nitroaniline

Concentration: 22.38 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

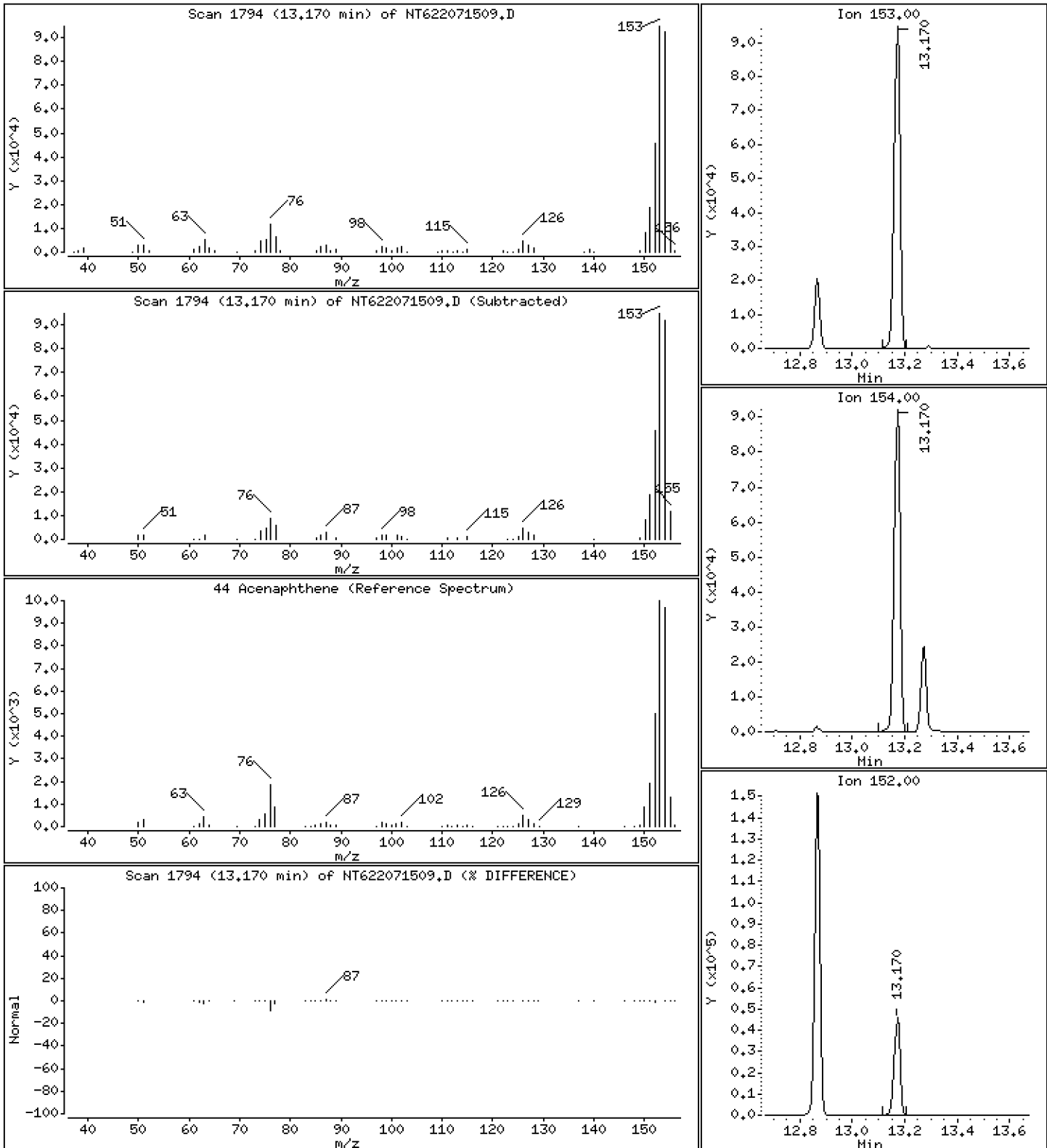
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

44 Acenaphthene

Concentration: 23,27 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

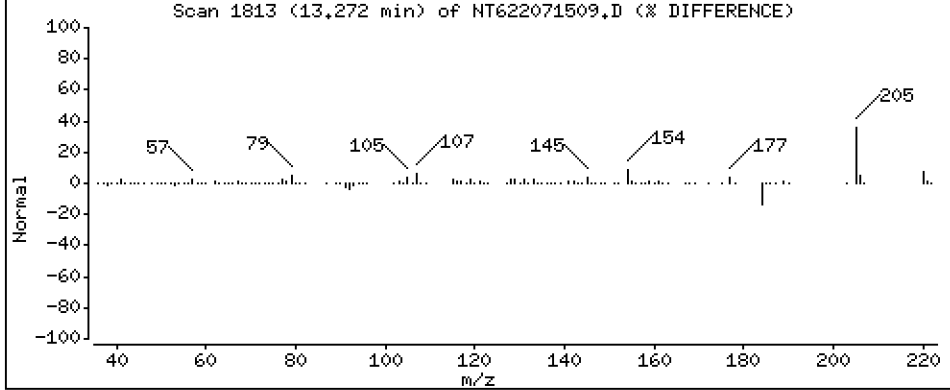
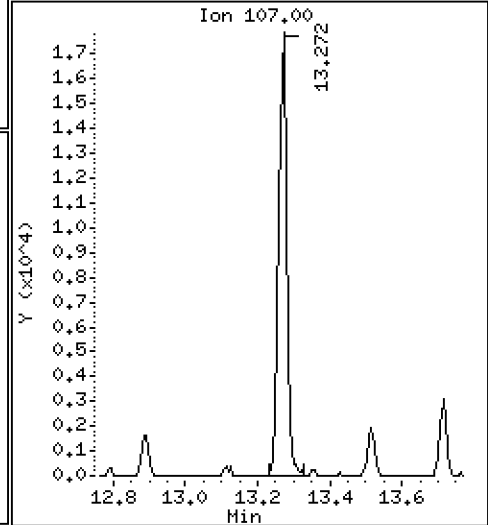
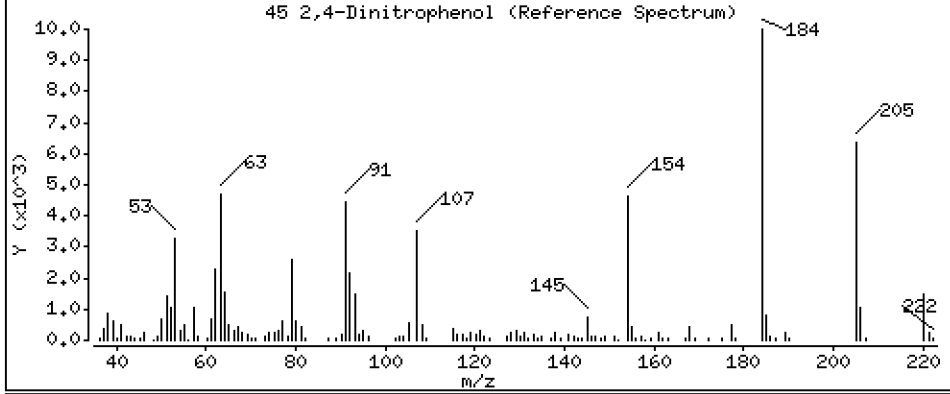
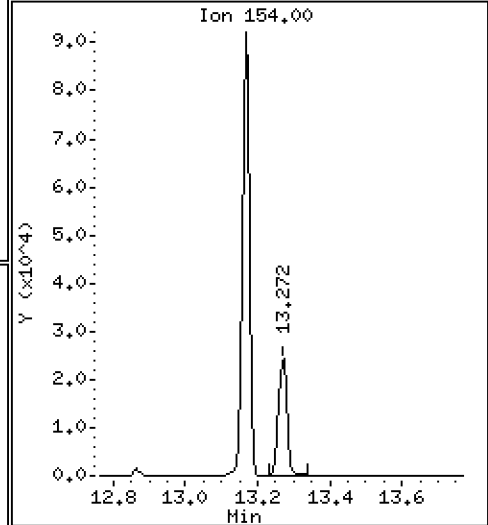
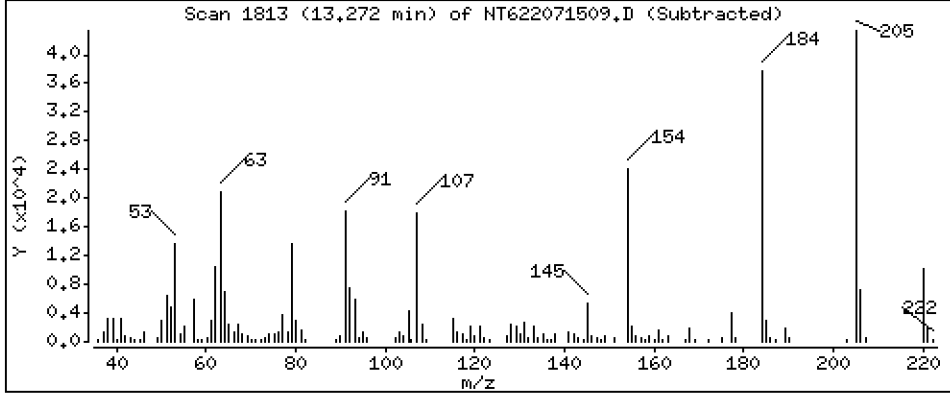
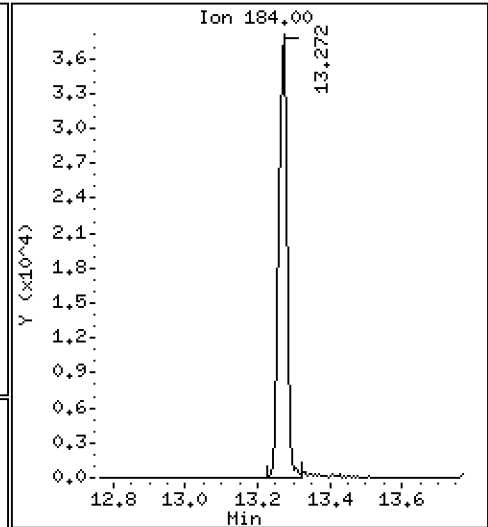
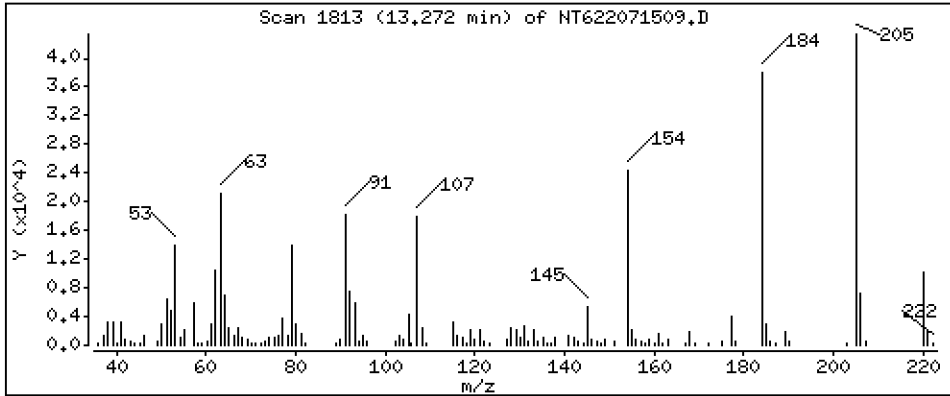
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

45 2,4-Dinitrophenol

Concentration: 59.85 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

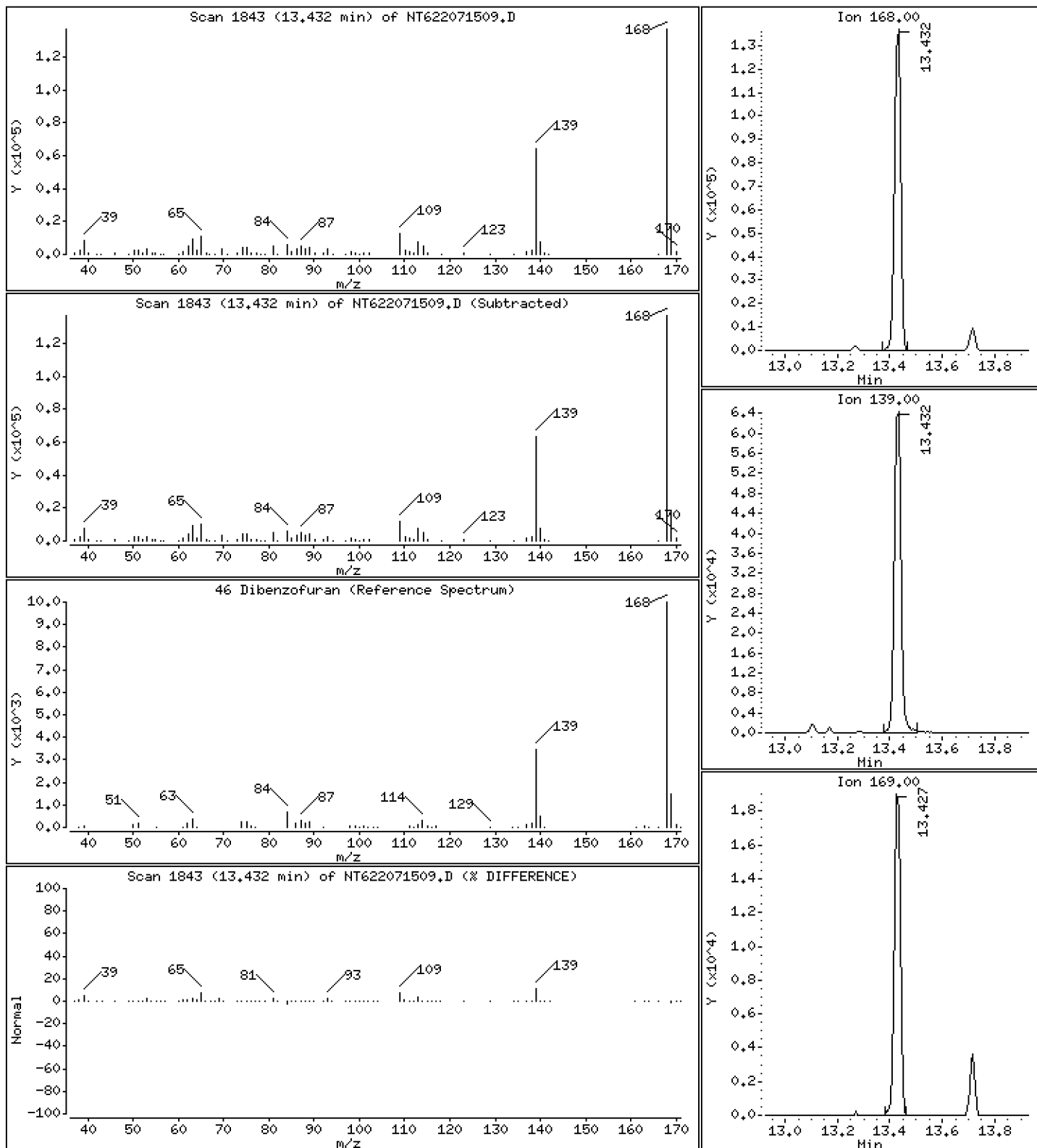
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

46 Dibenzofuran

Concentration: 23.98 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

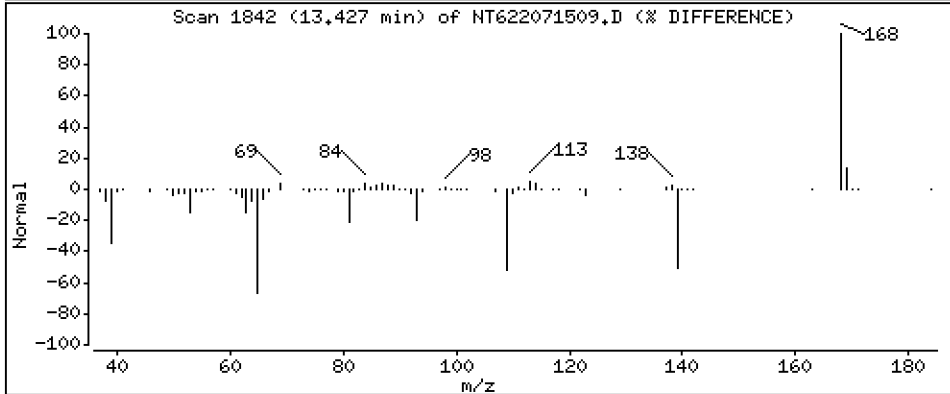
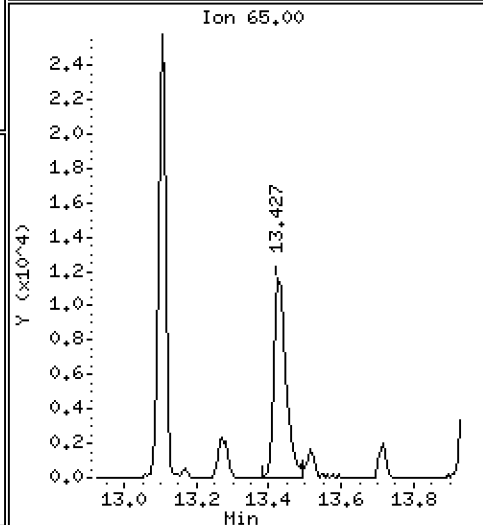
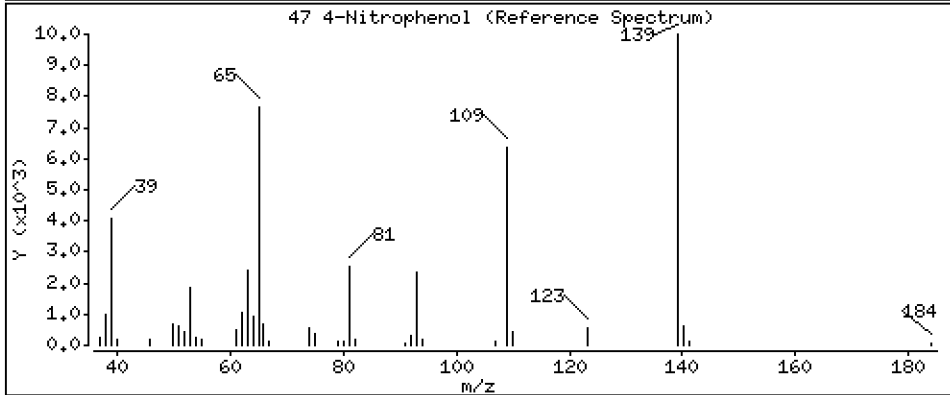
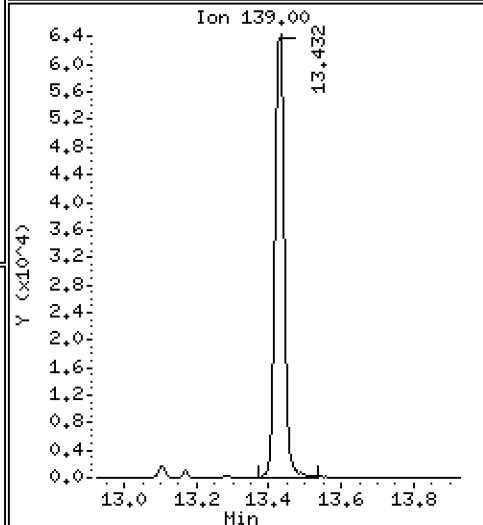
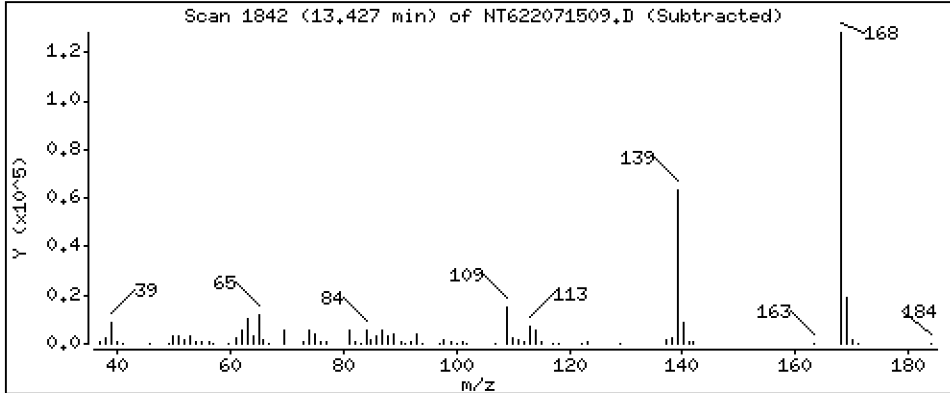
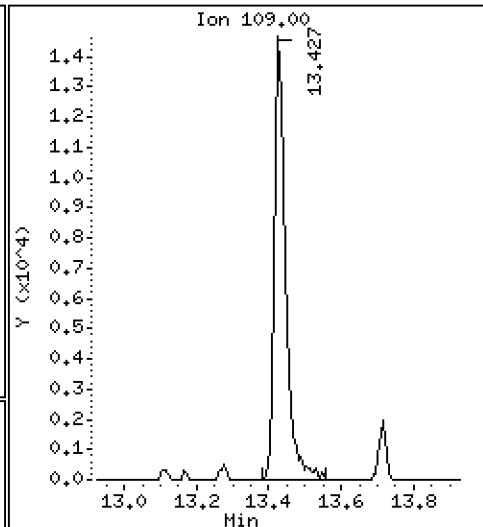
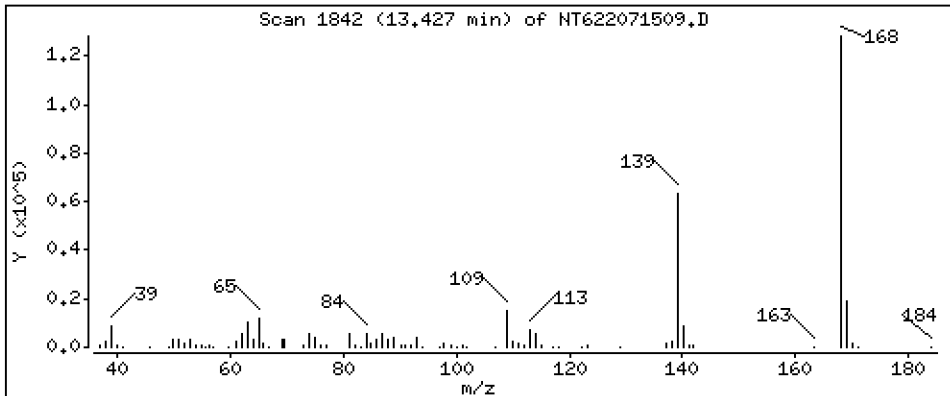
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

47 4-Nitrophenol

Concentration: 27.76 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

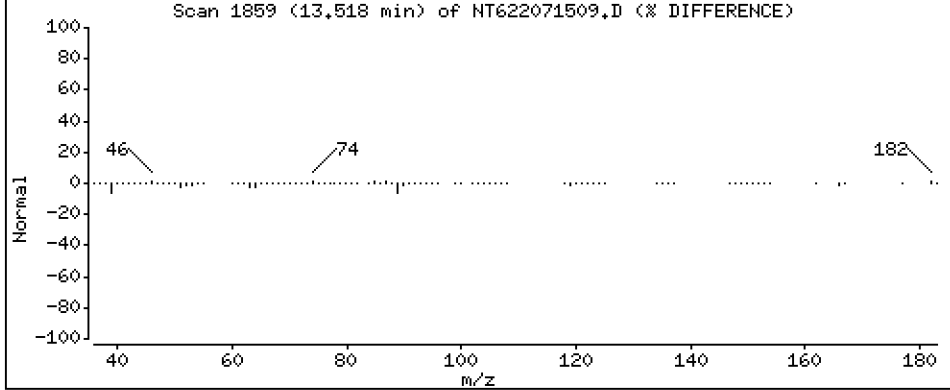
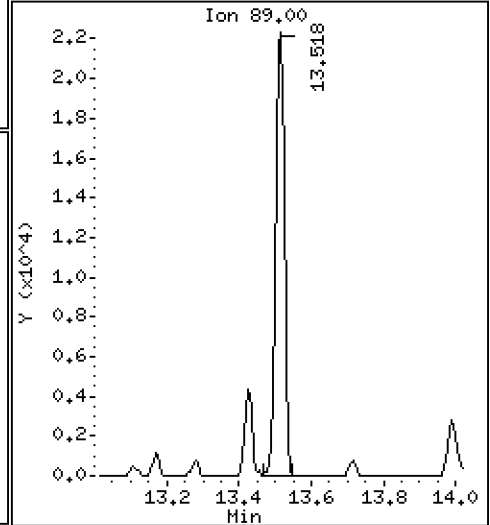
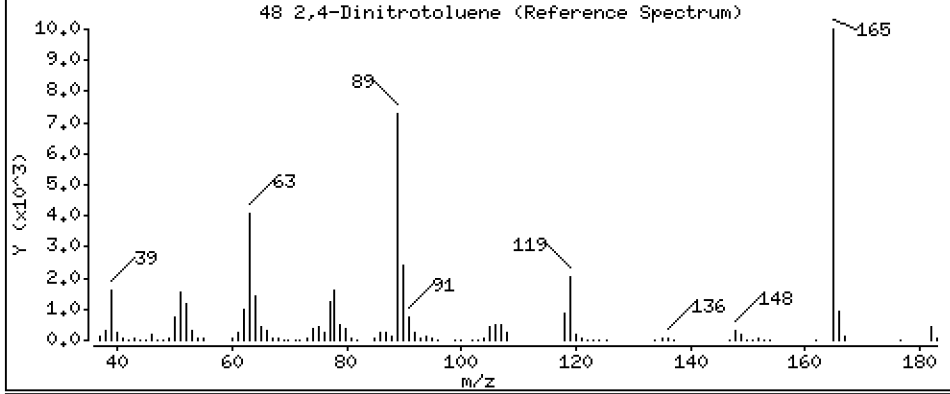
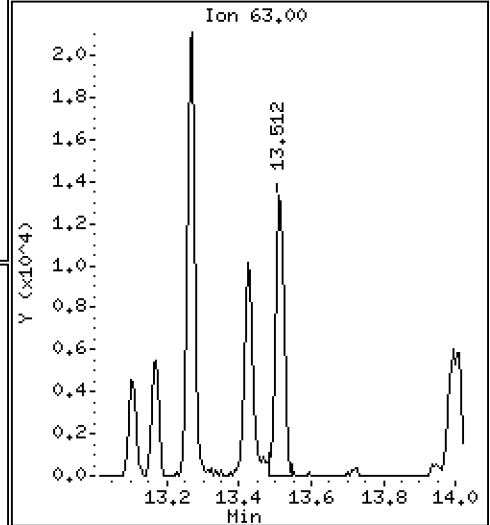
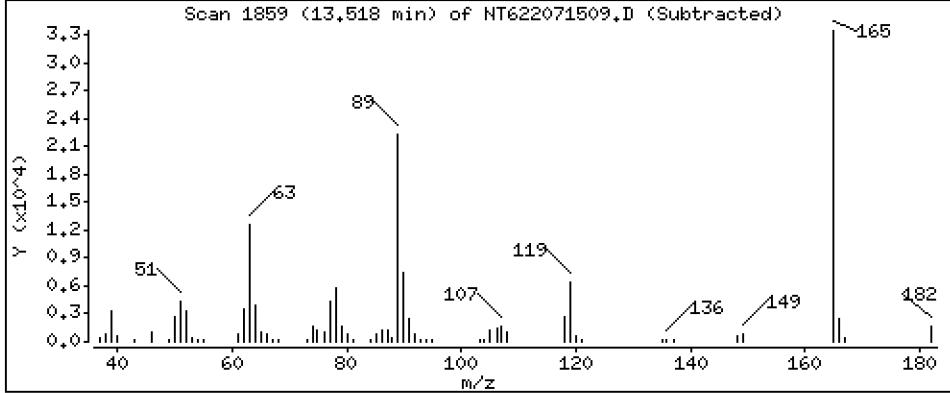
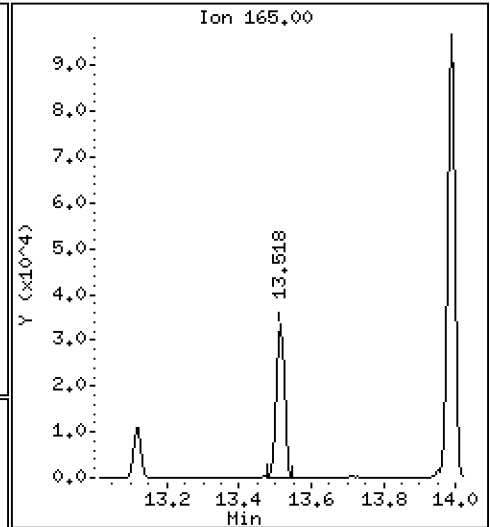
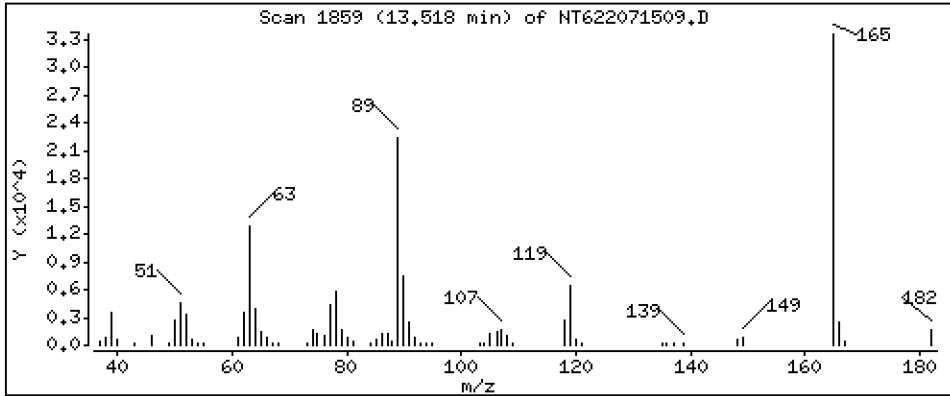
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

48 2,4-Dinitrotoluene

Concentration: 24.69 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

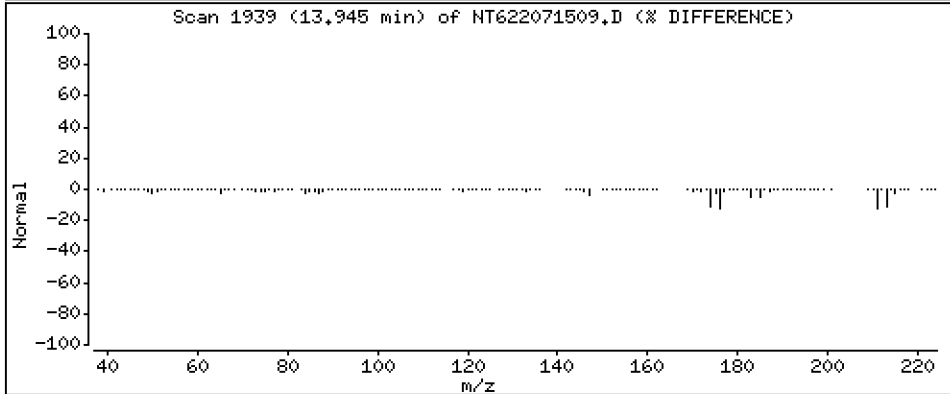
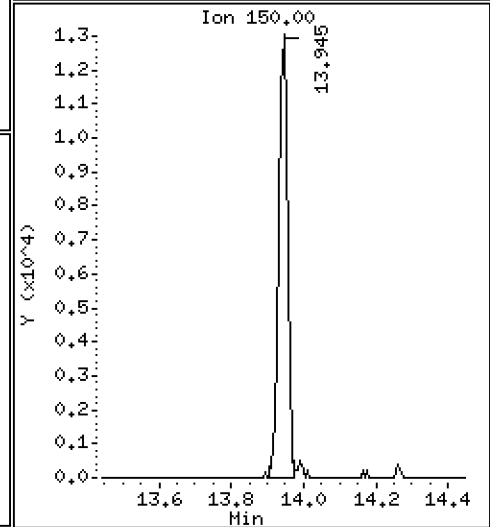
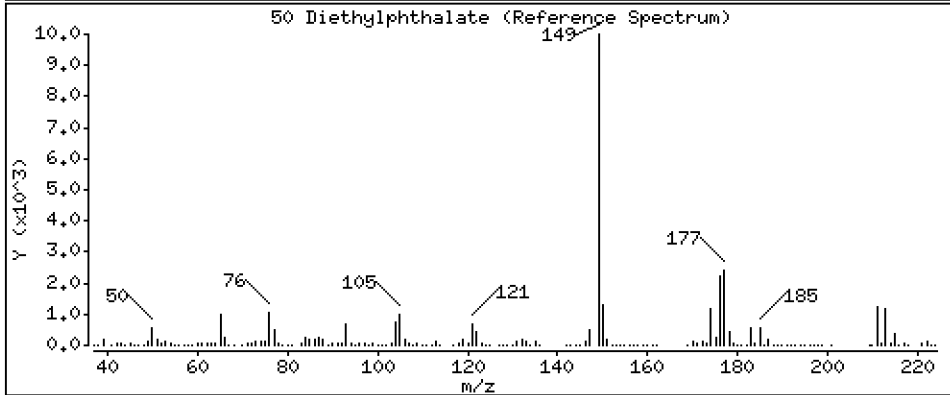
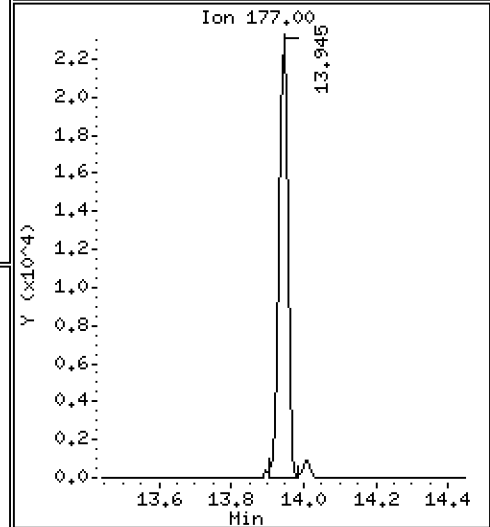
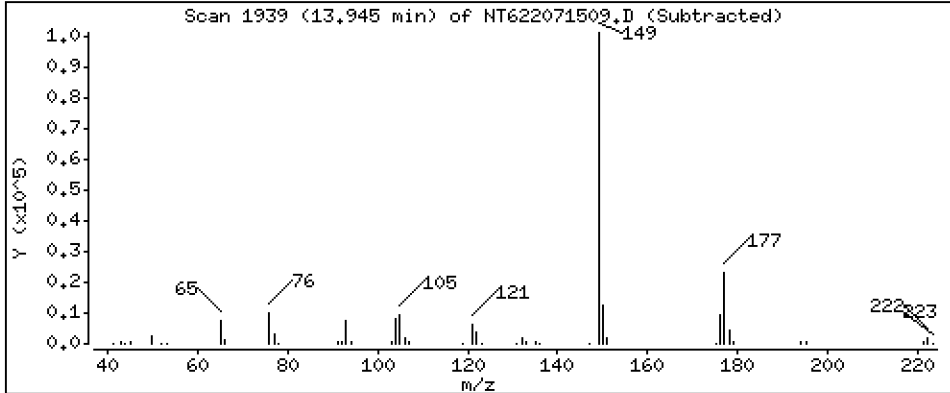
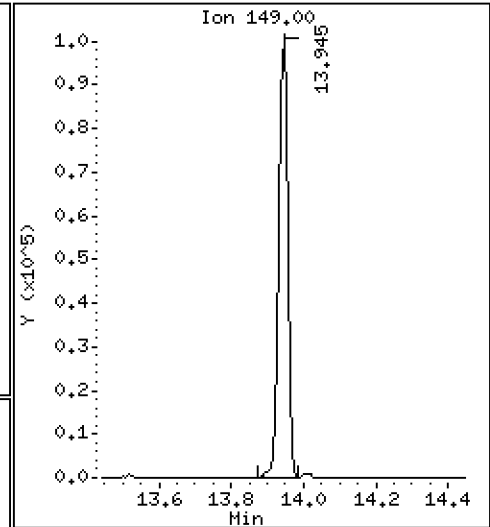
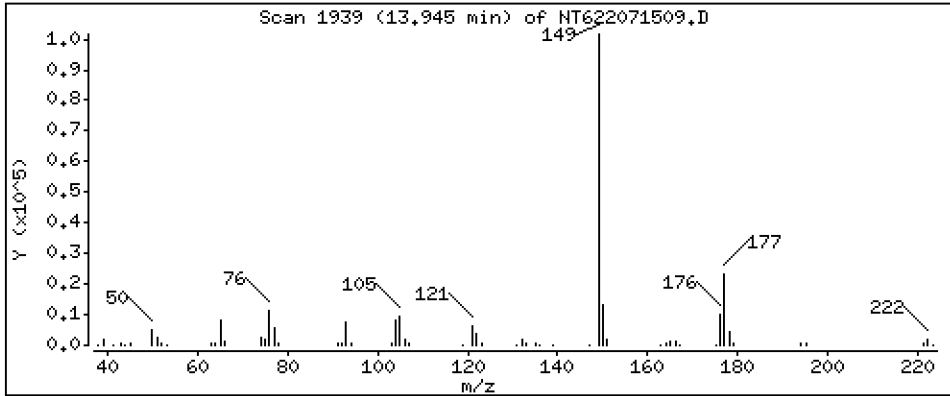
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

50 Diethylphthalate

Concentration: 24.85 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

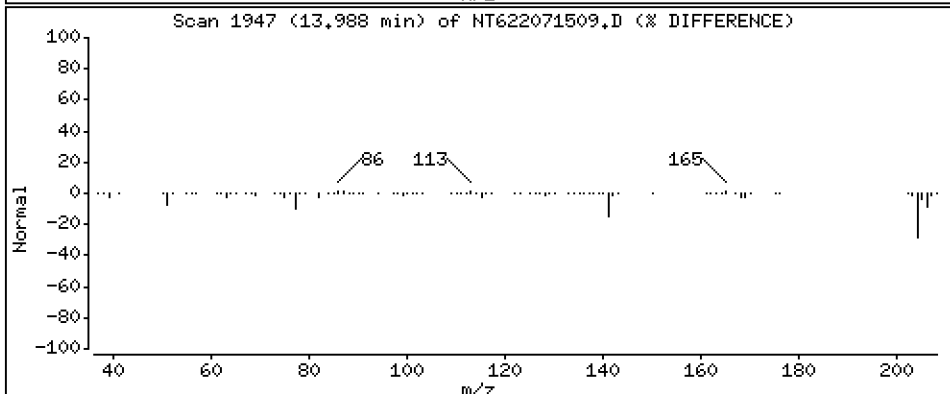
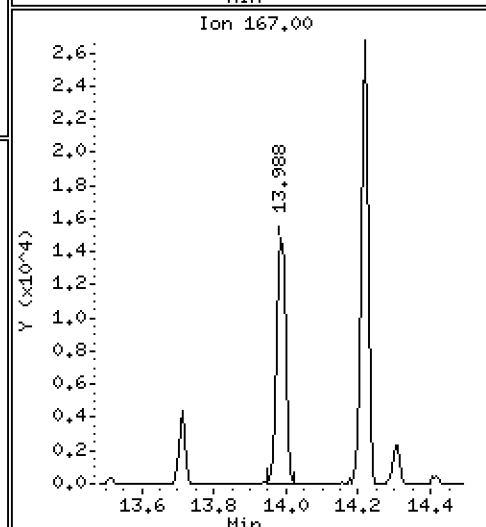
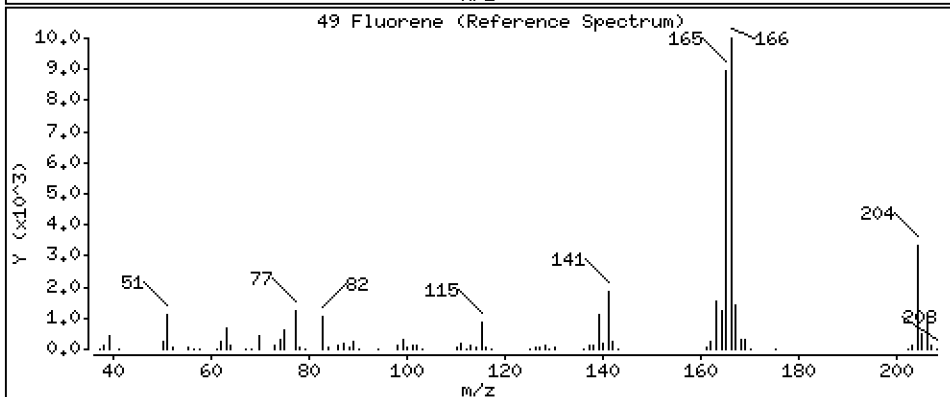
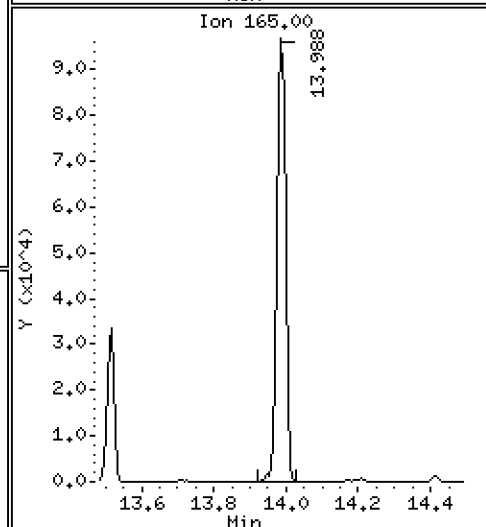
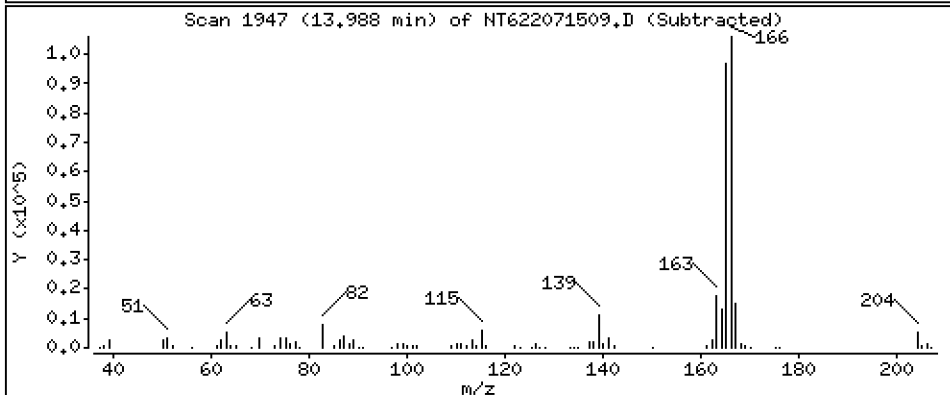
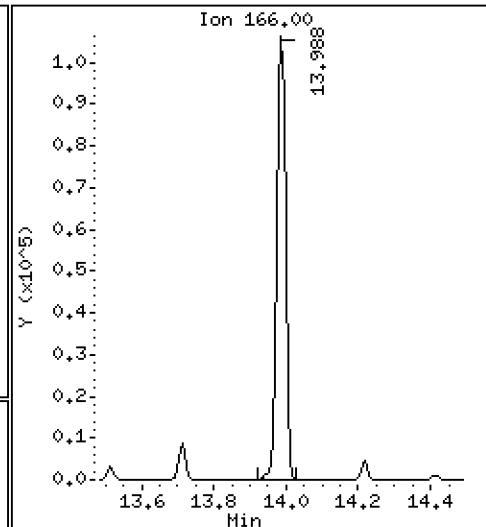
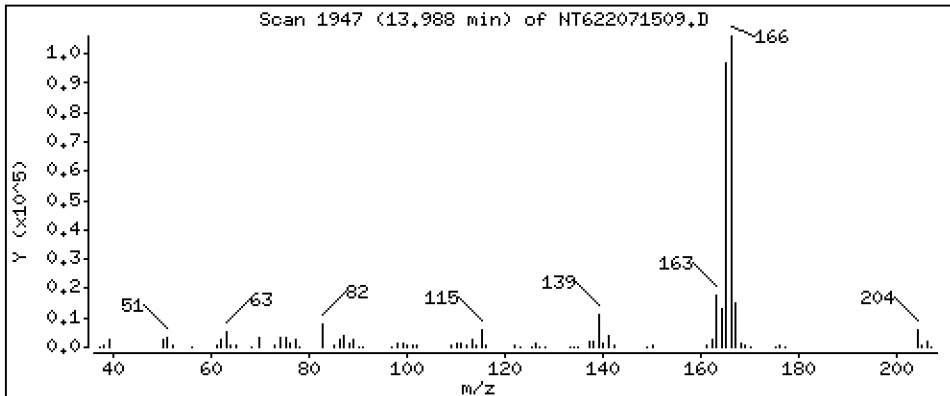
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

49 Fluorene

Concentration: 24,26 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

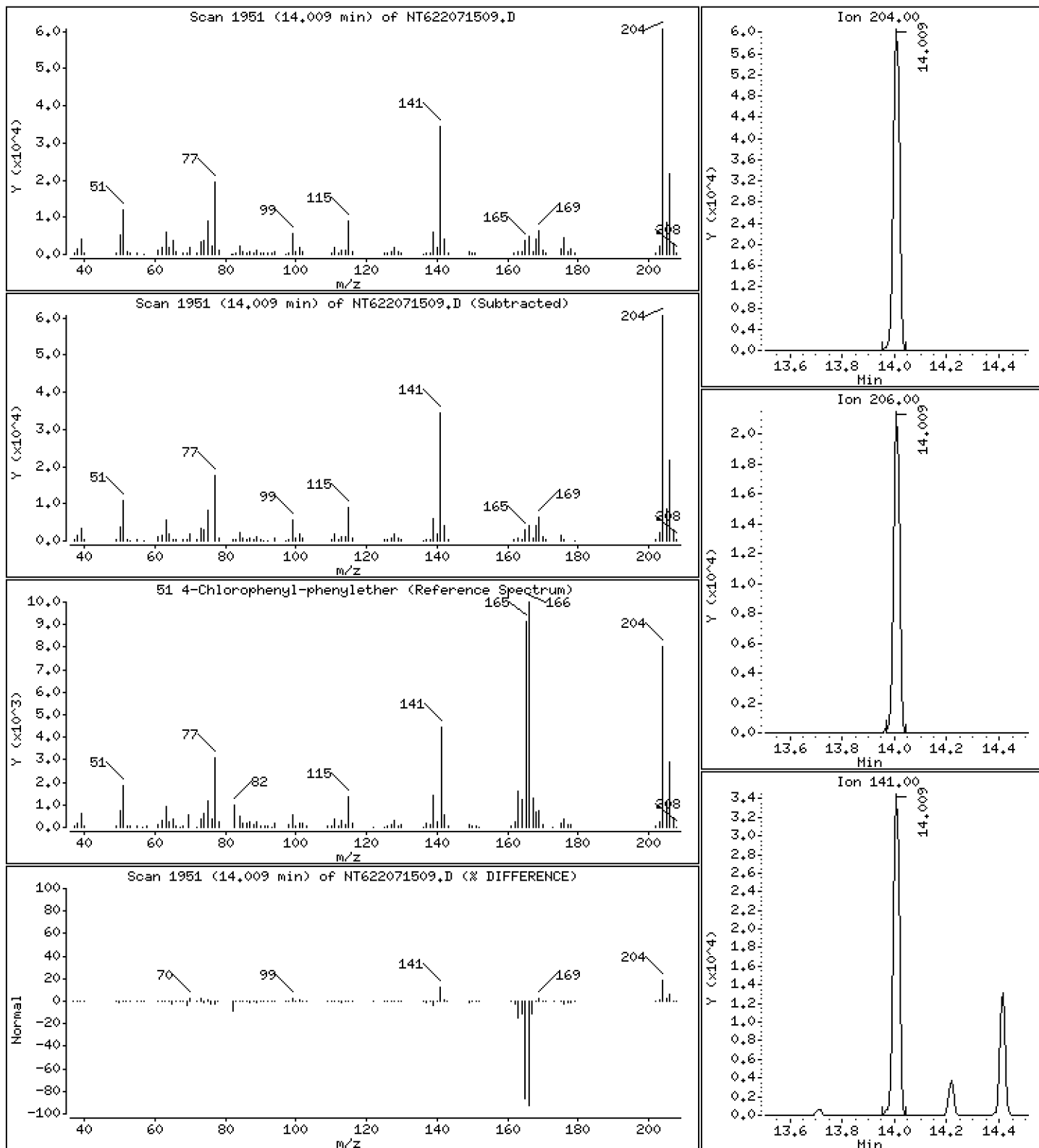
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

51 4-Chlorophenyl-phenylether

Concentration: 23,88 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

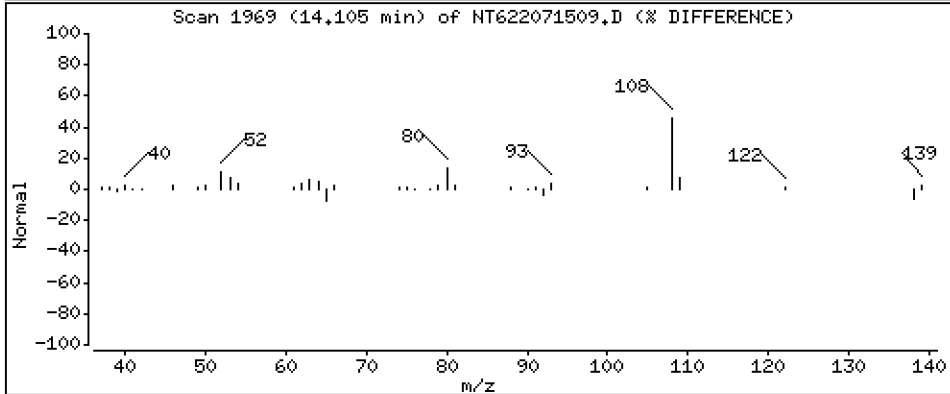
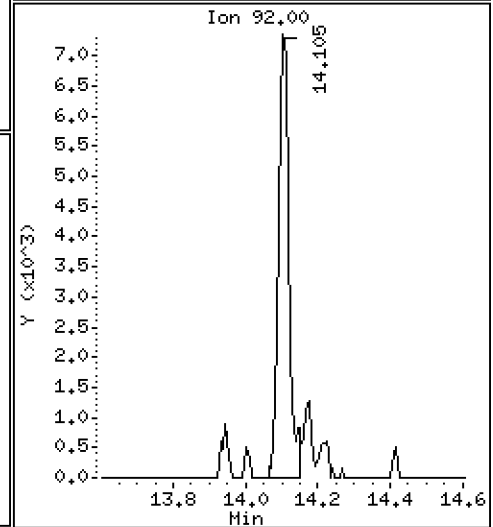
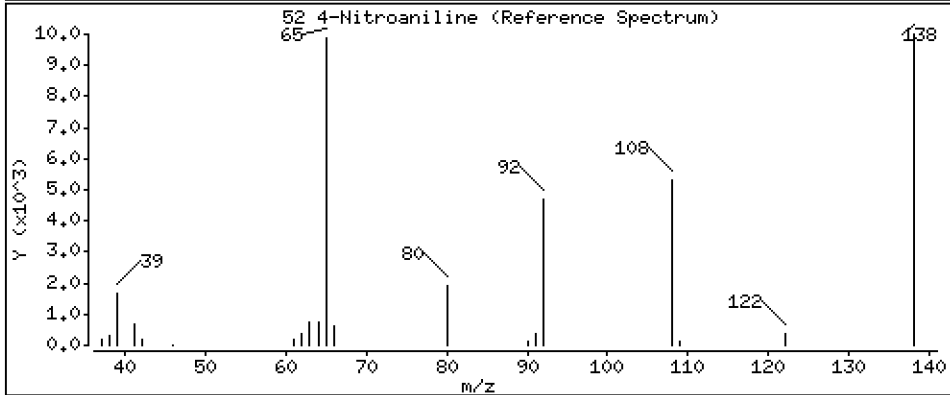
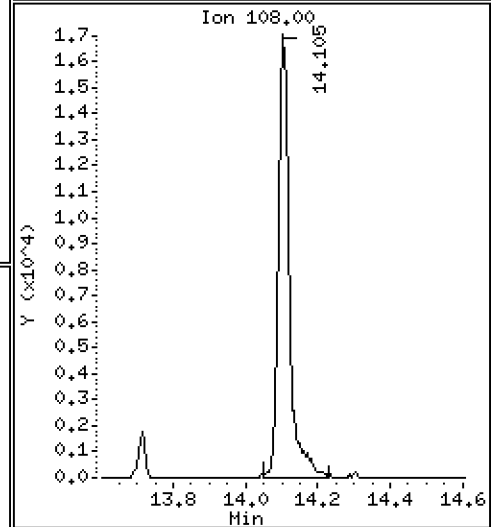
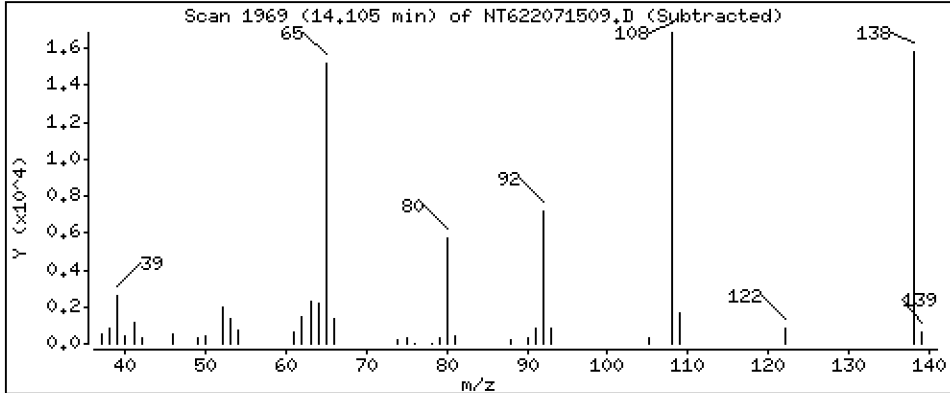
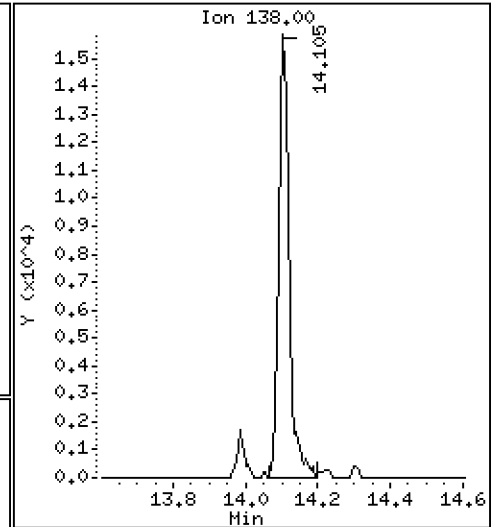
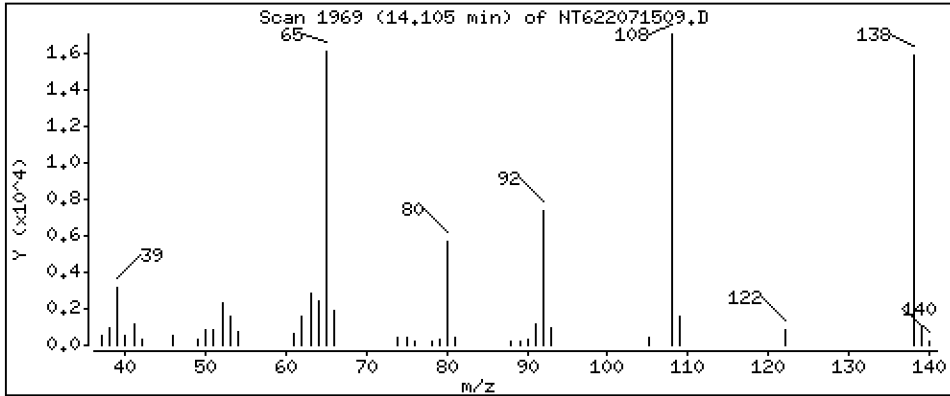
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

52 4-Nitroaniline

Concentration: 22.25 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

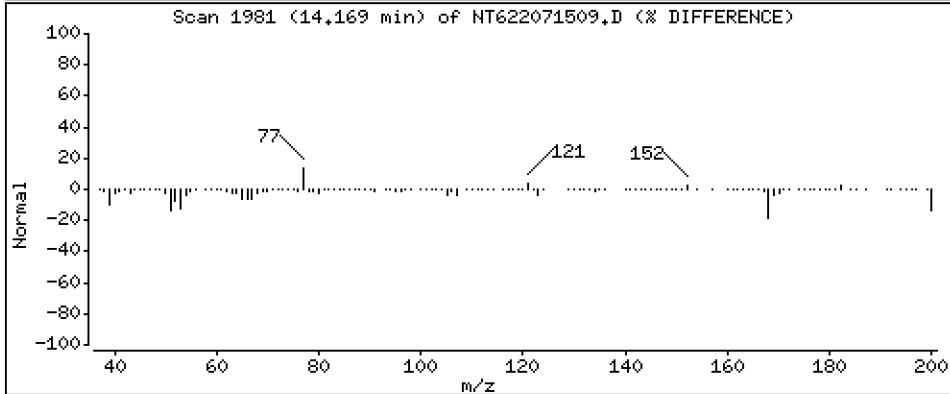
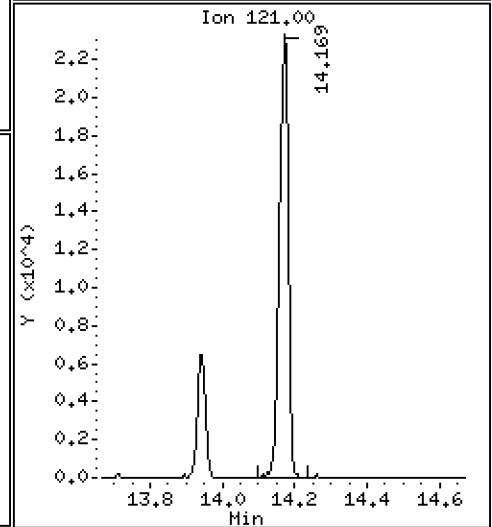
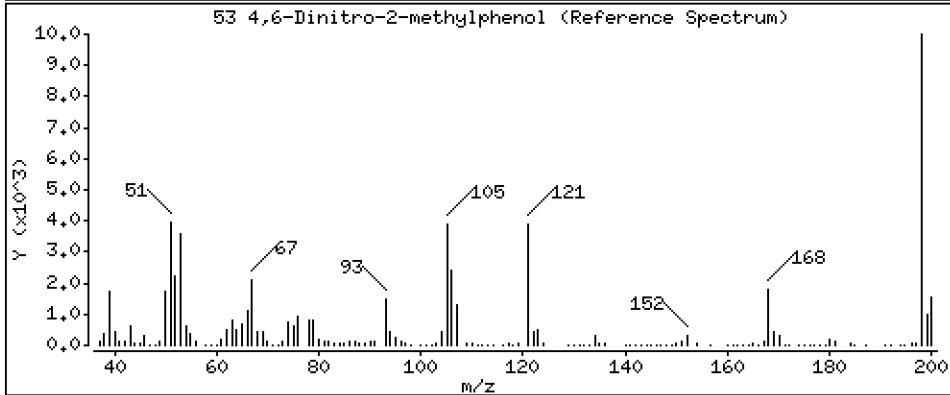
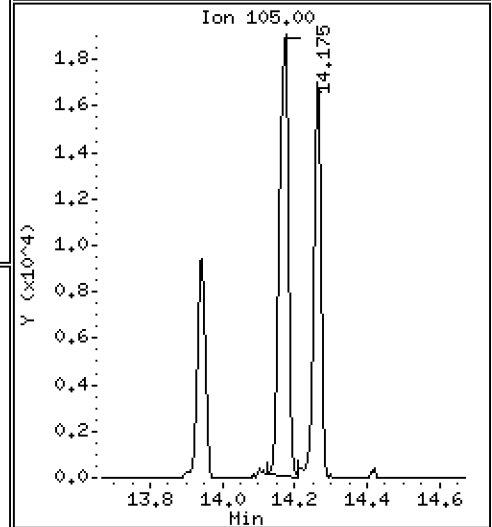
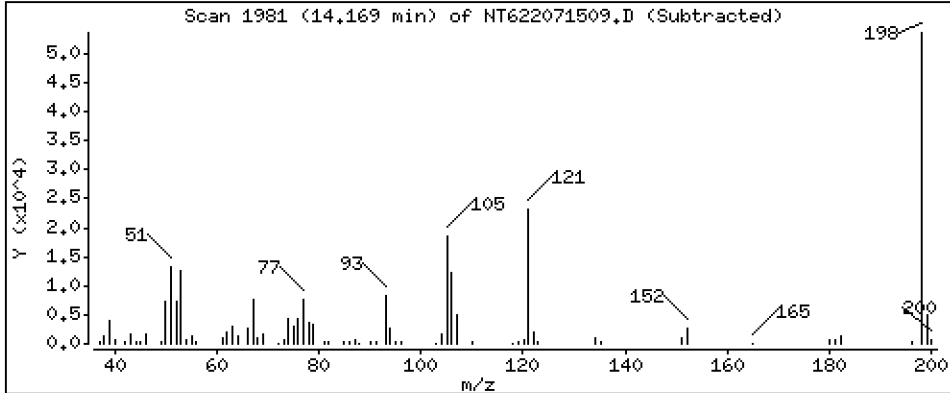
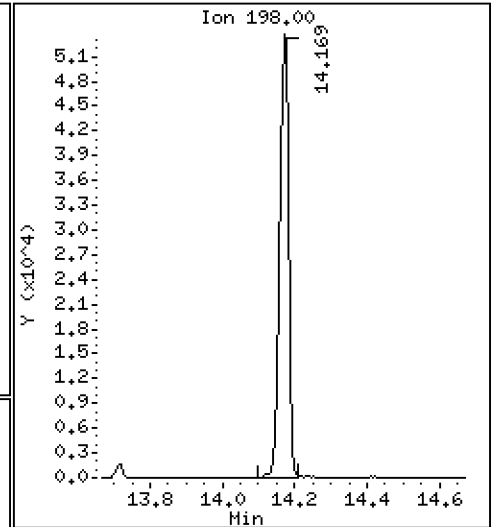
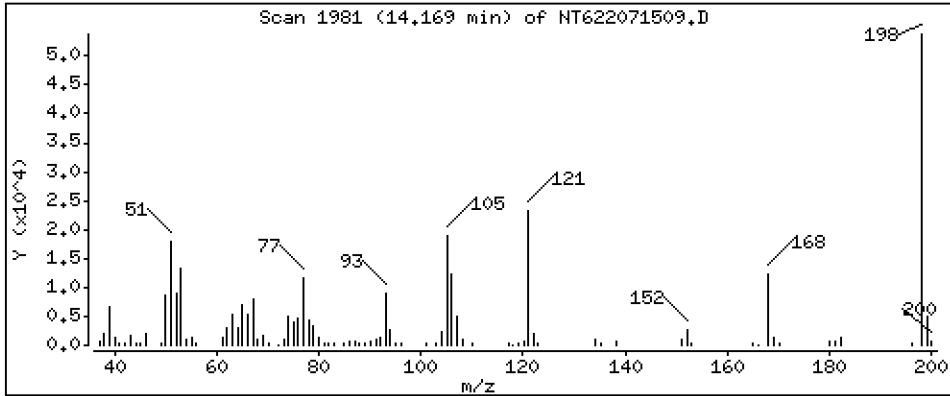
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

53 4,6-Dinitro-2-methylphenol

Concentration: 67.61 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

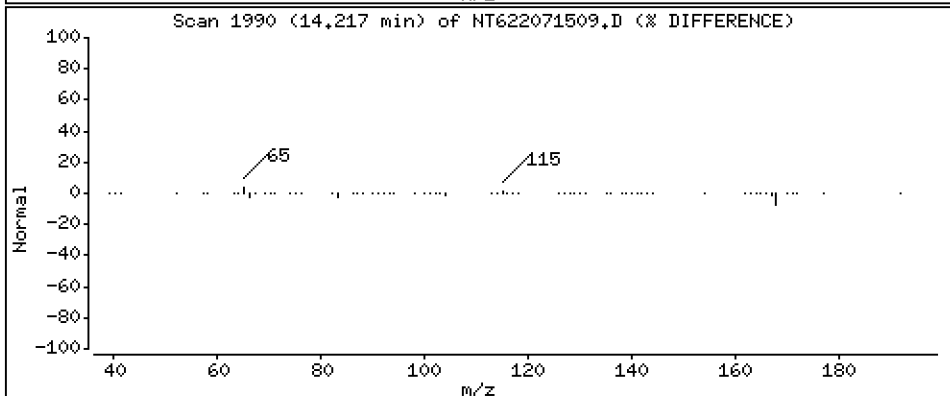
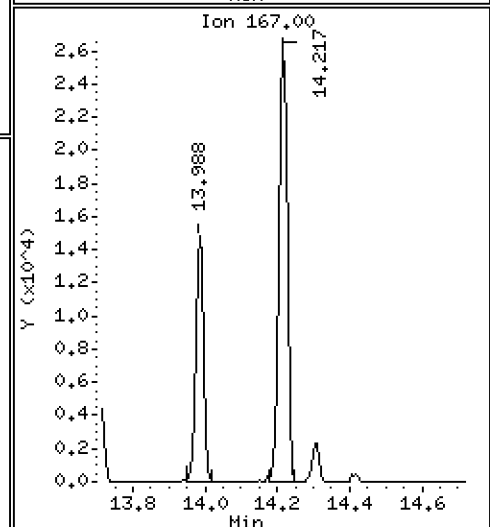
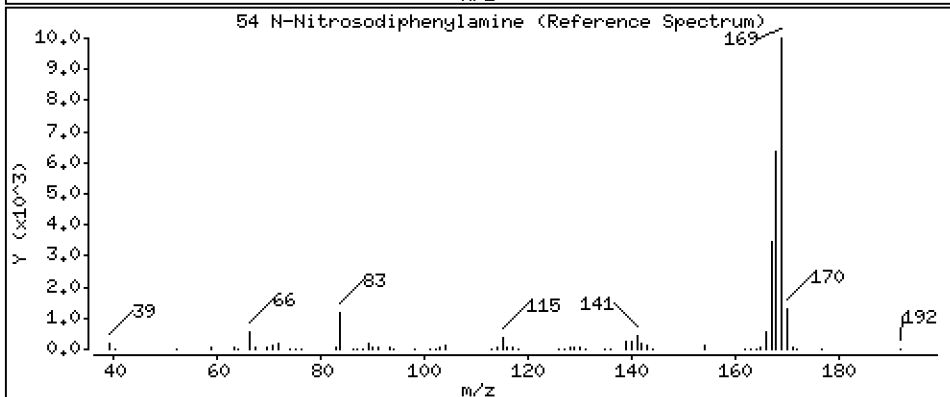
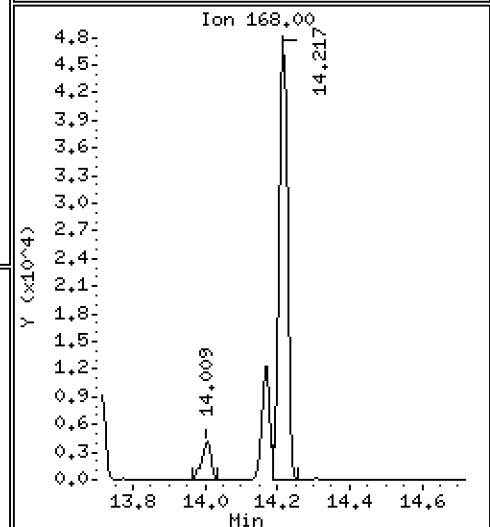
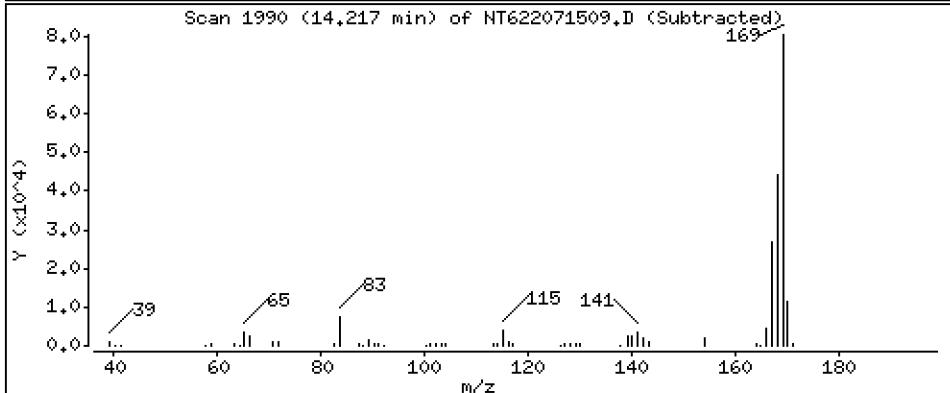
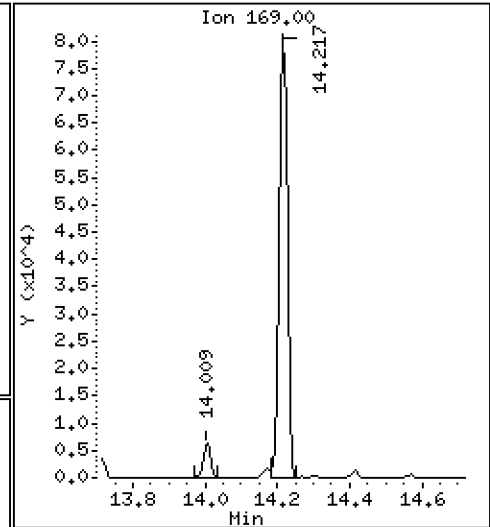
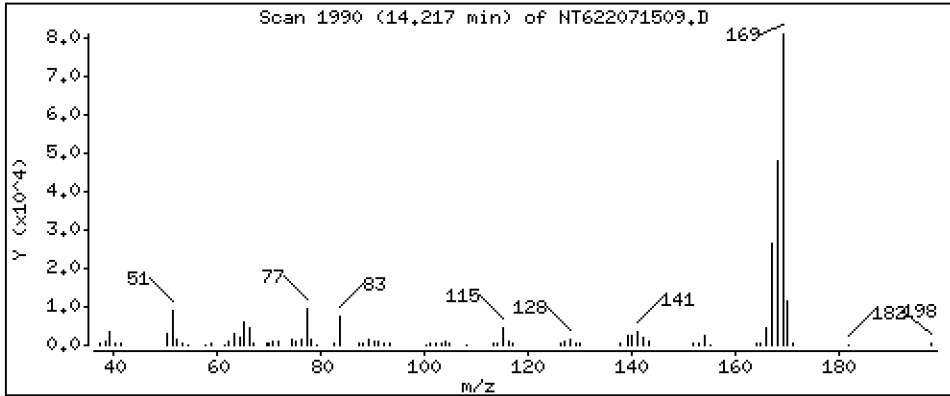
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

54 N-Nitrosodiphenylamine

Concentration: 23.21 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

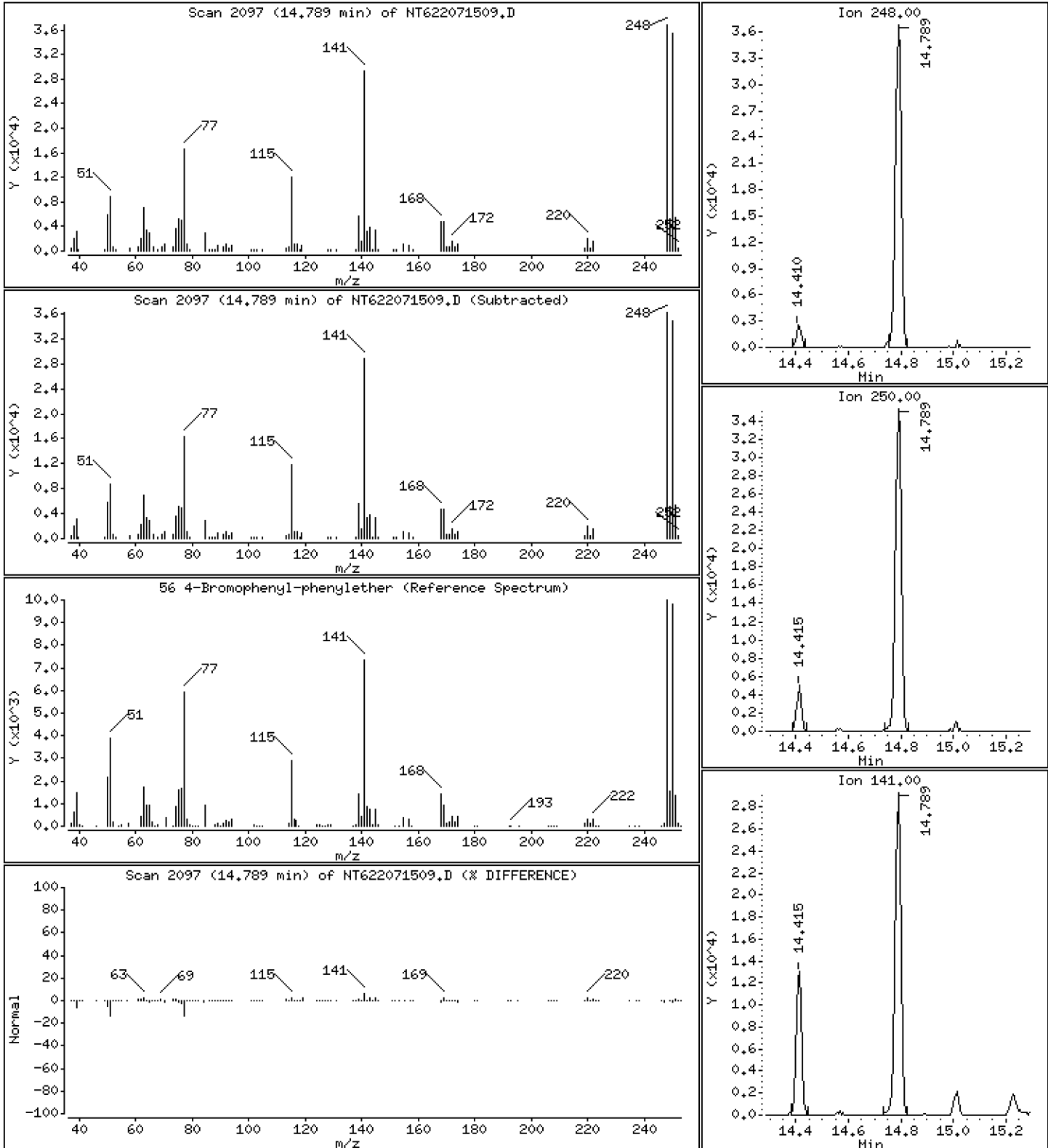
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

56 4-Bromophenyl-phenylether

Concentration: 24.51 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

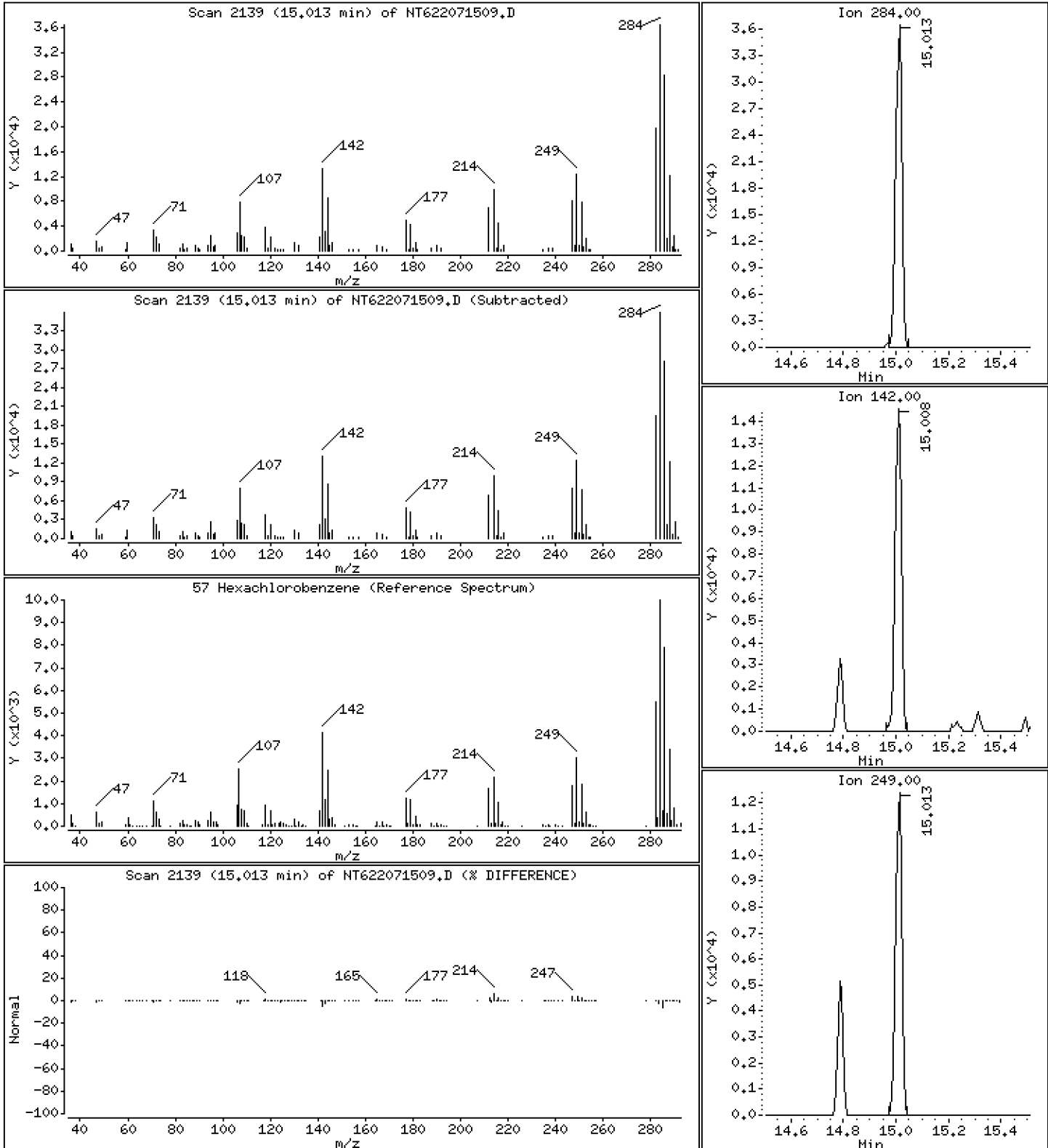
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

57 Hexachlorobenzene

Concentration: 24.03 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

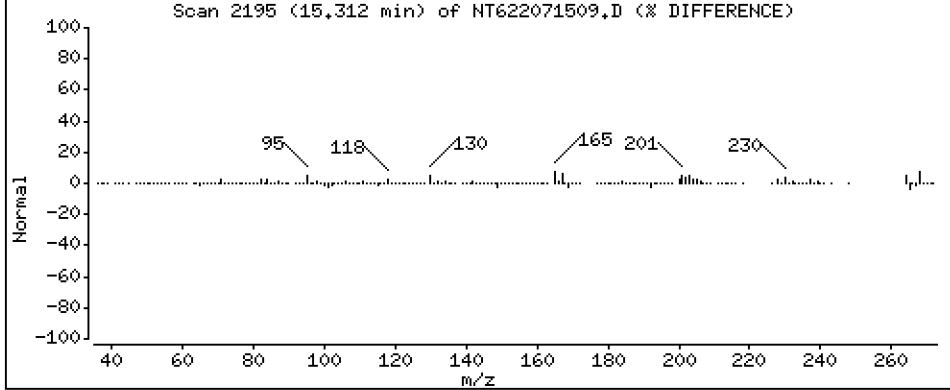
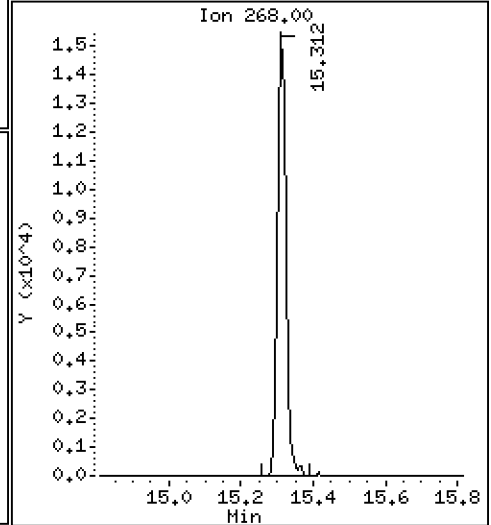
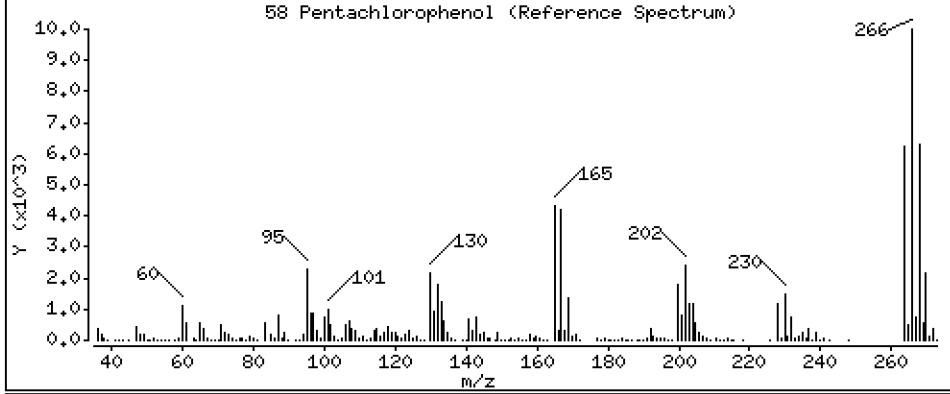
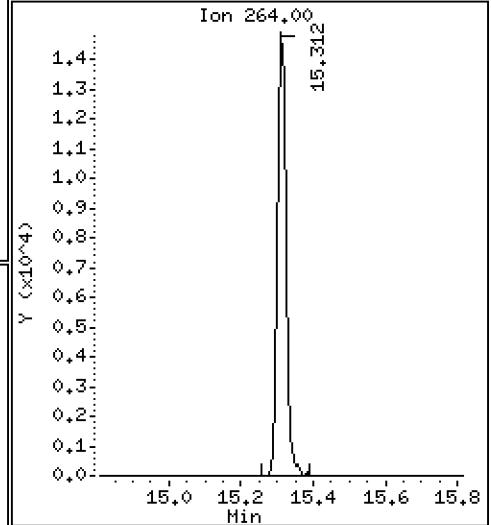
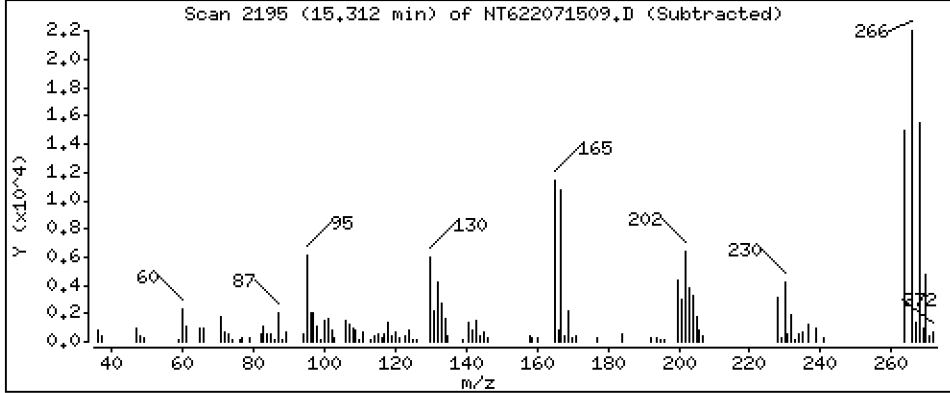
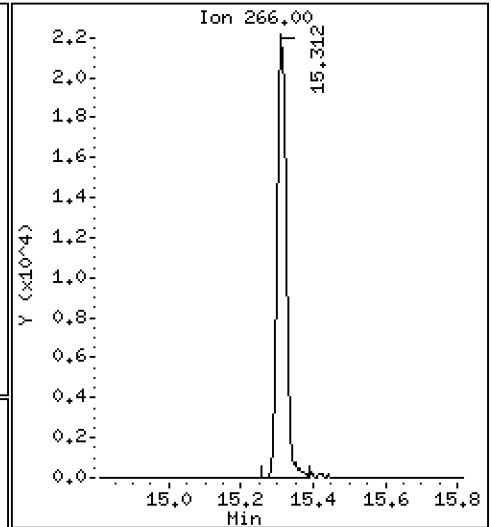
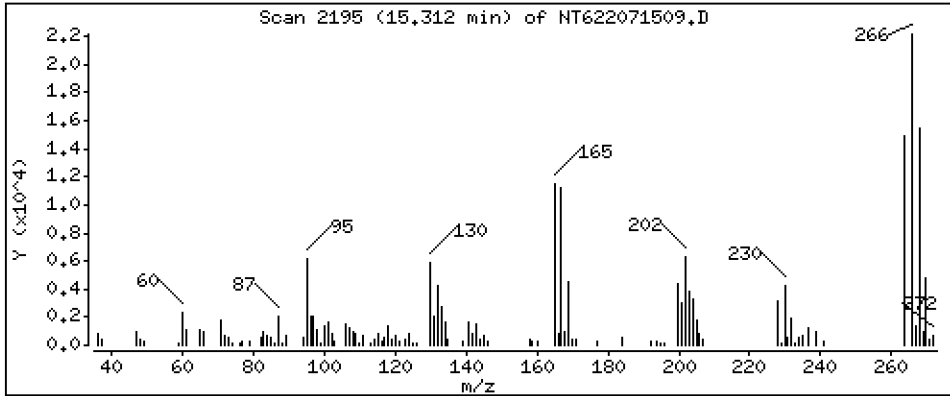
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

58 Pentachlorophenol

Concentration: 22.55 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

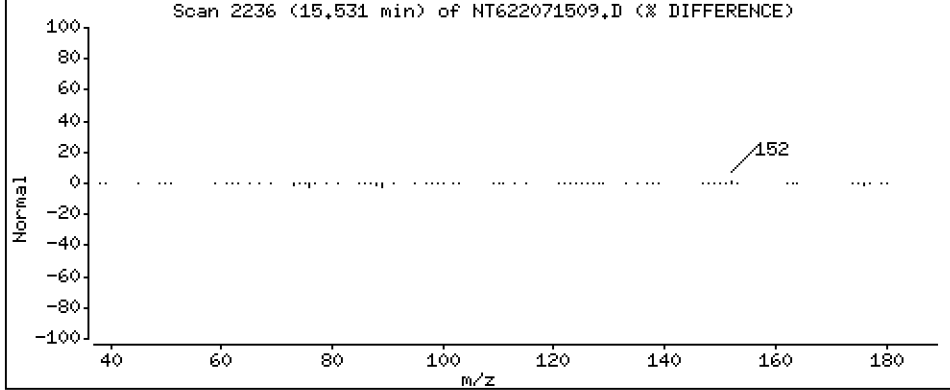
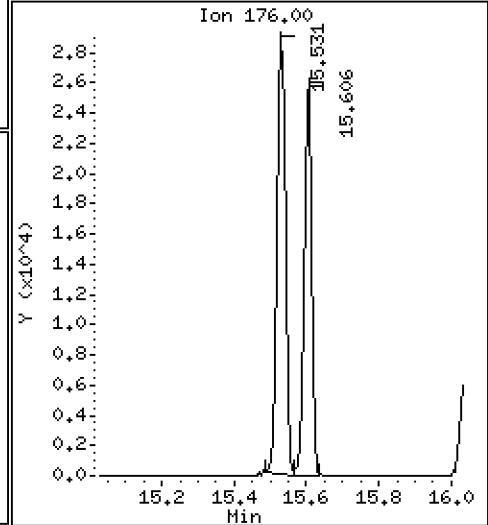
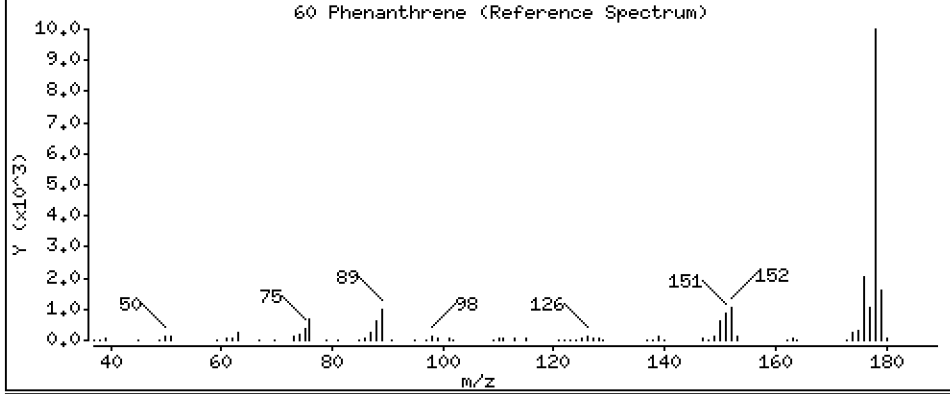
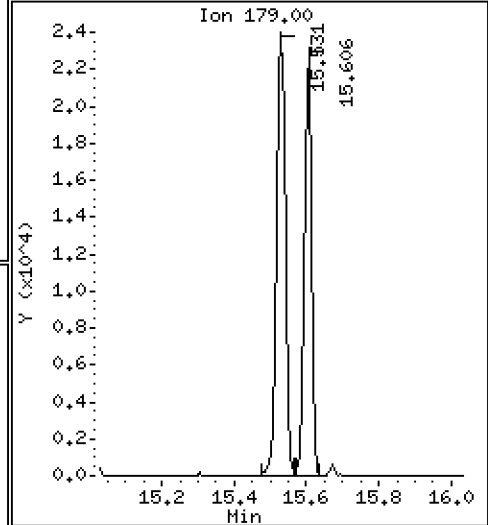
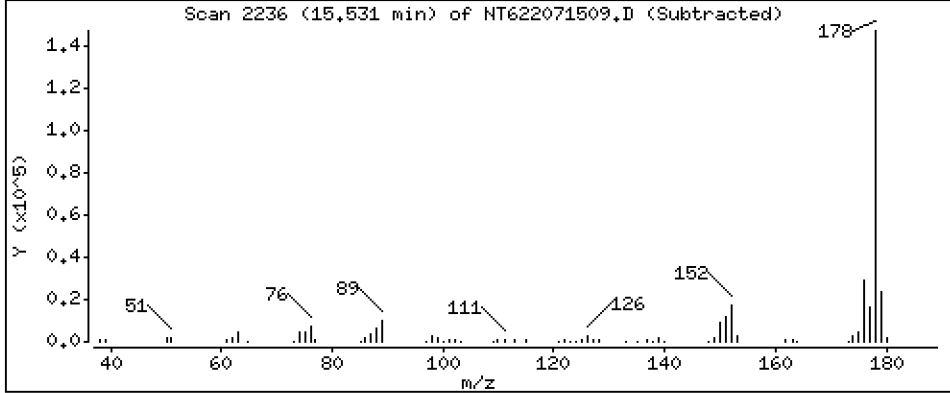
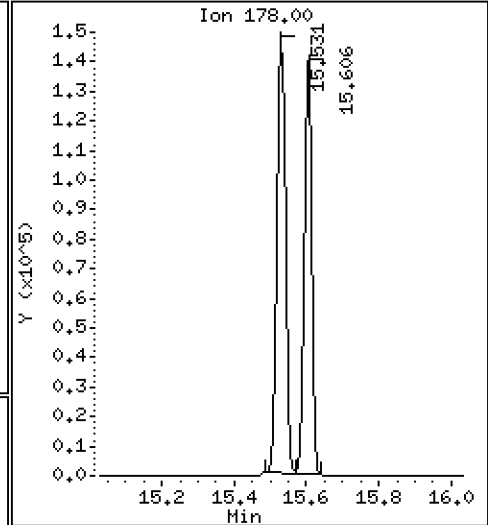
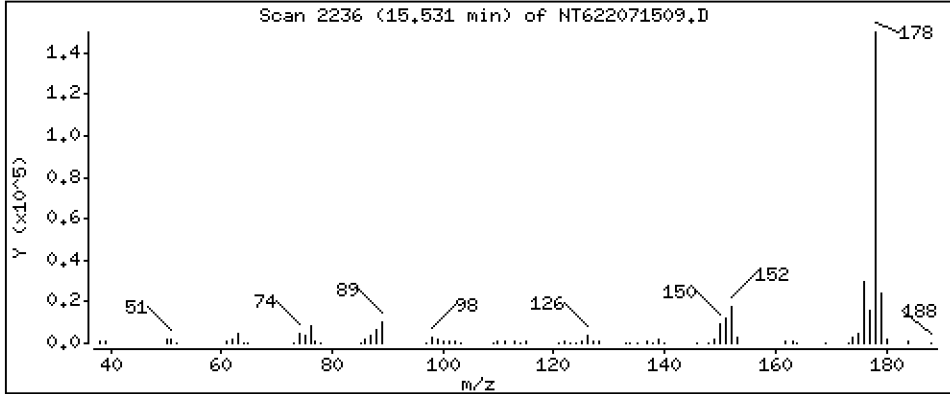
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

60 Phenanthrene

Concentration: 23,24 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

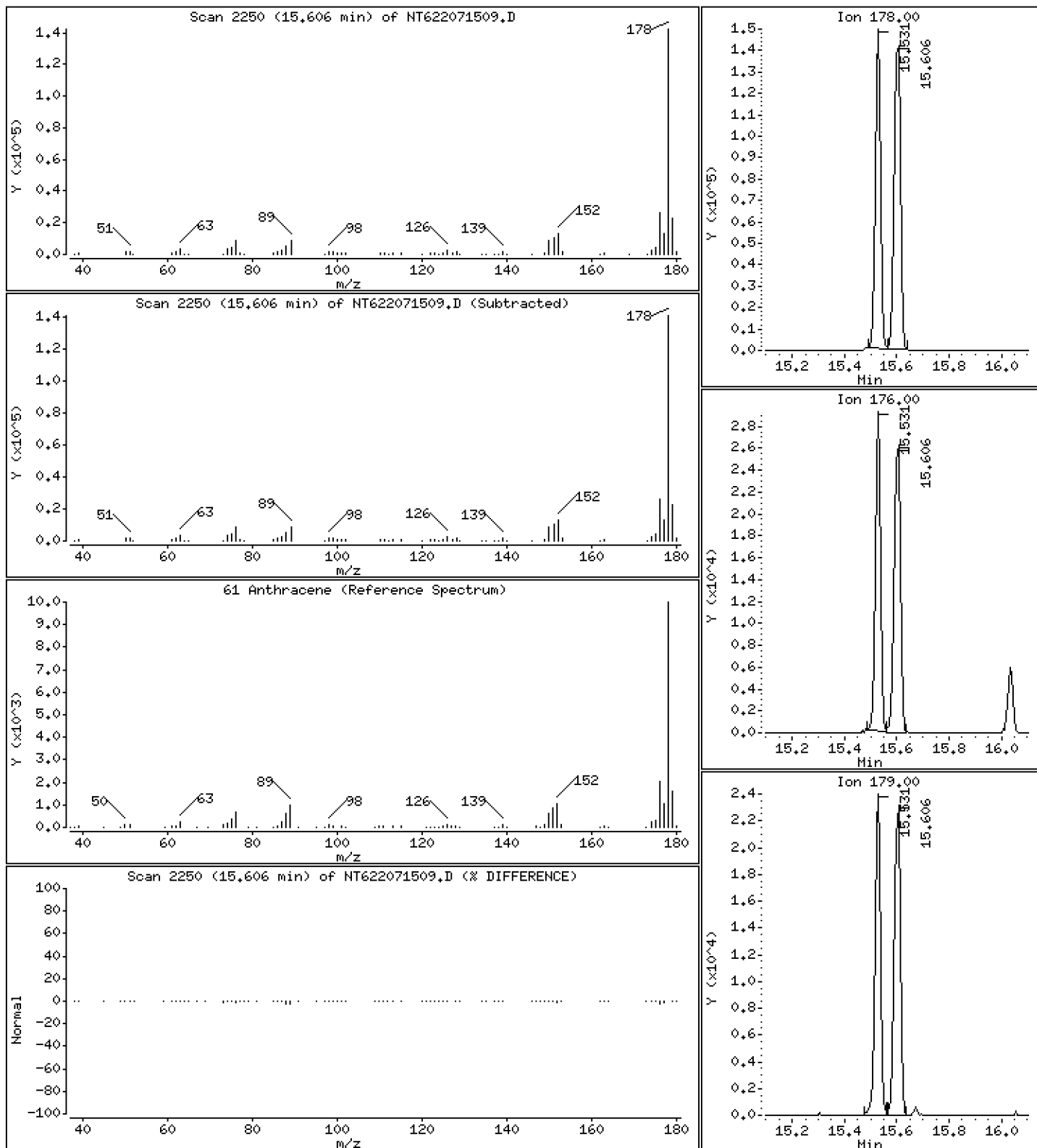
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

61 Anthracene

Concentration: 22.97 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

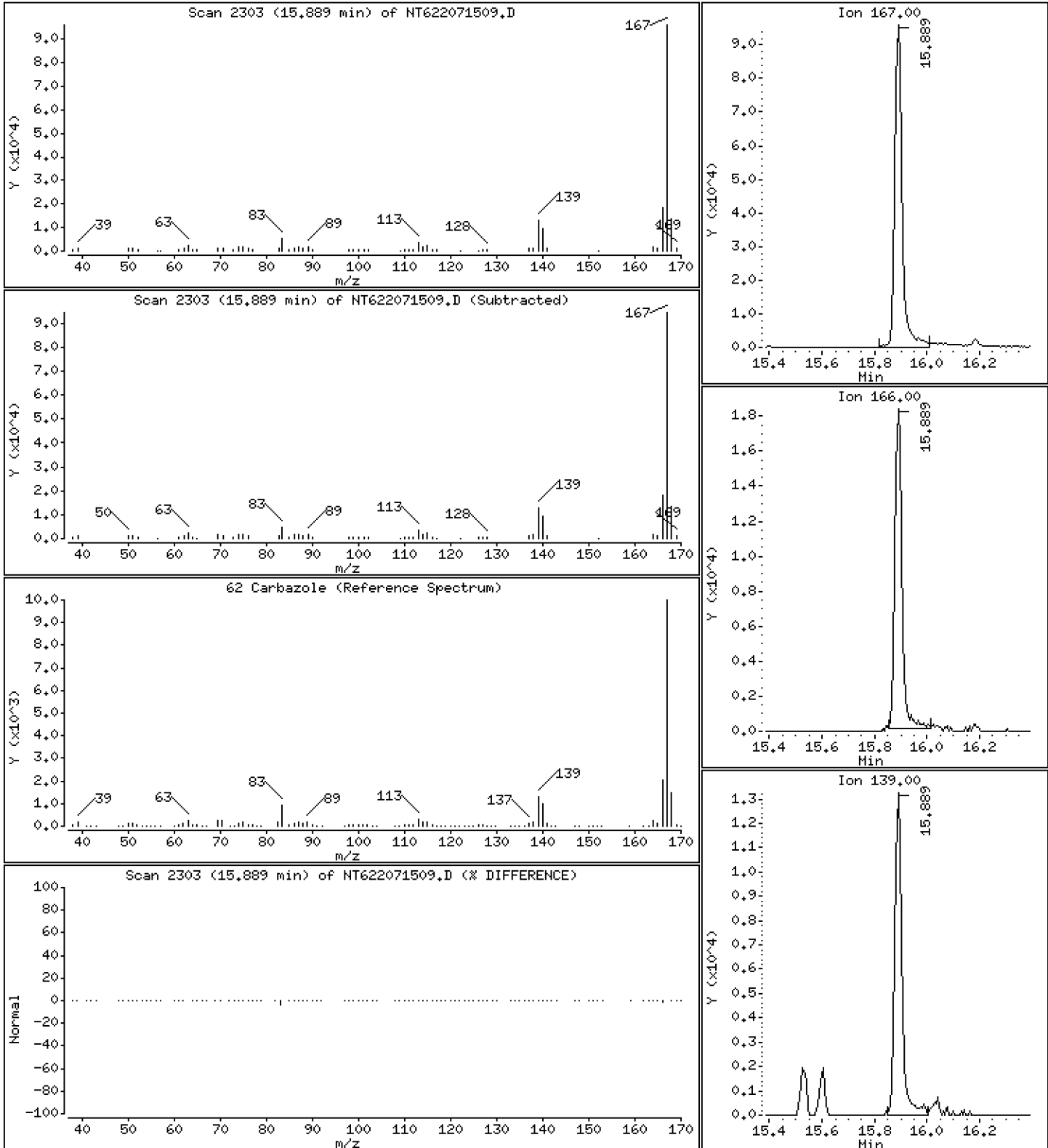
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

62 Carbazole

Concentration: 21.75 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

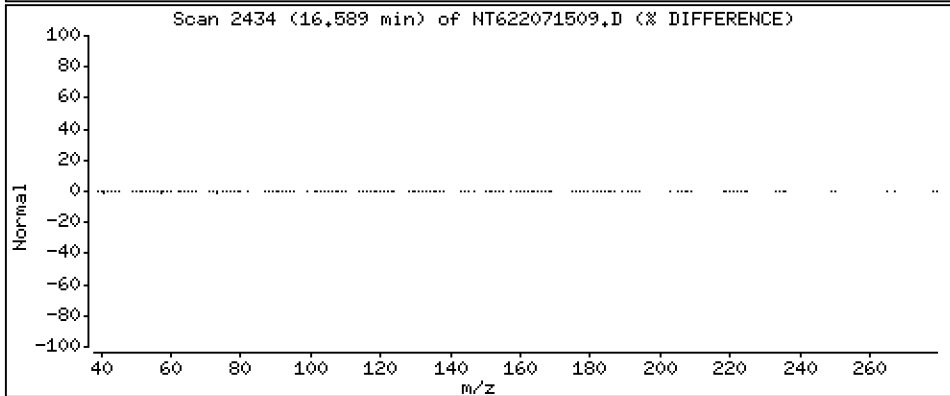
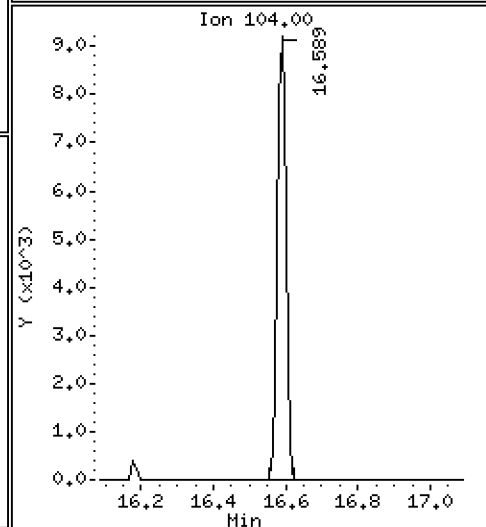
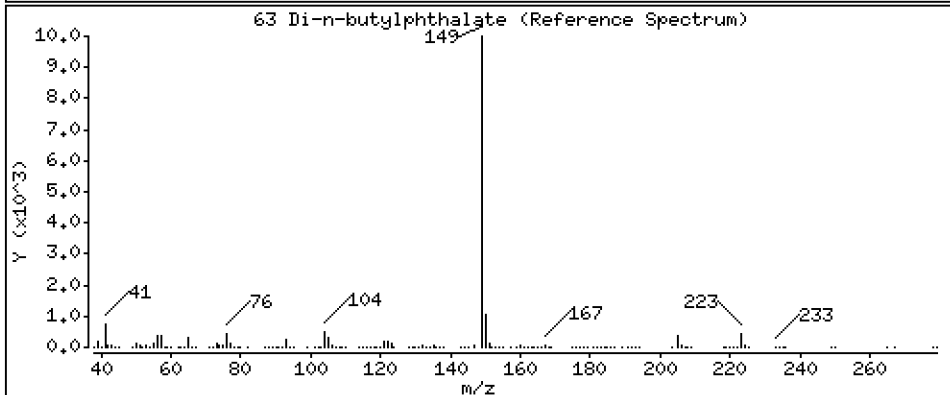
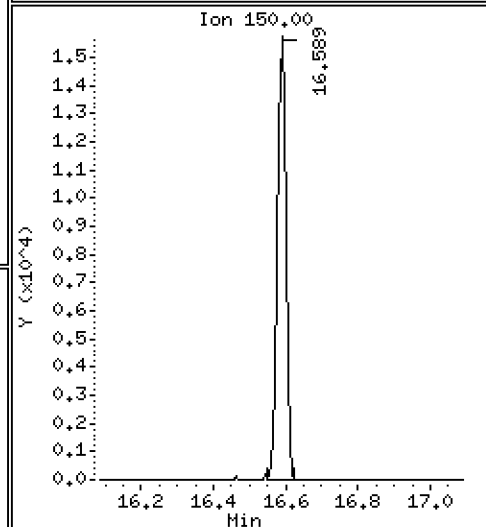
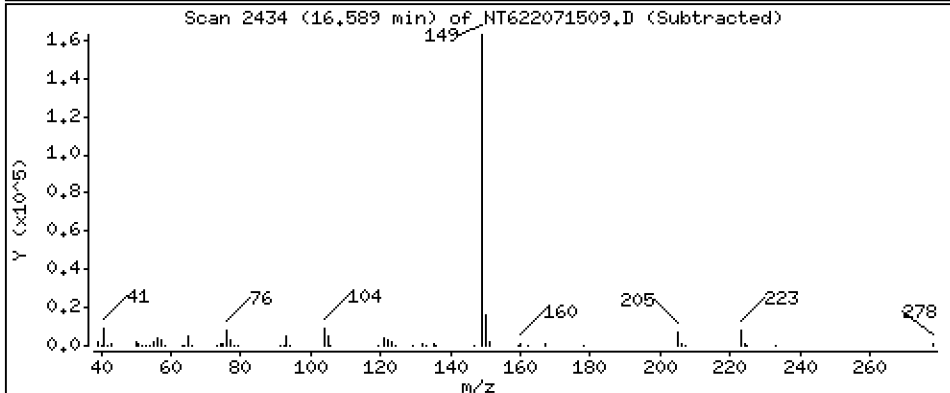
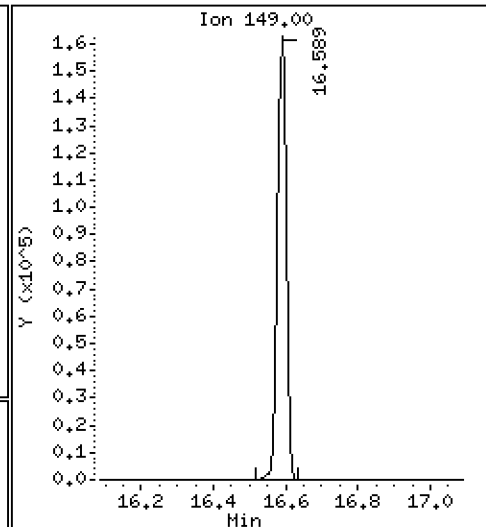
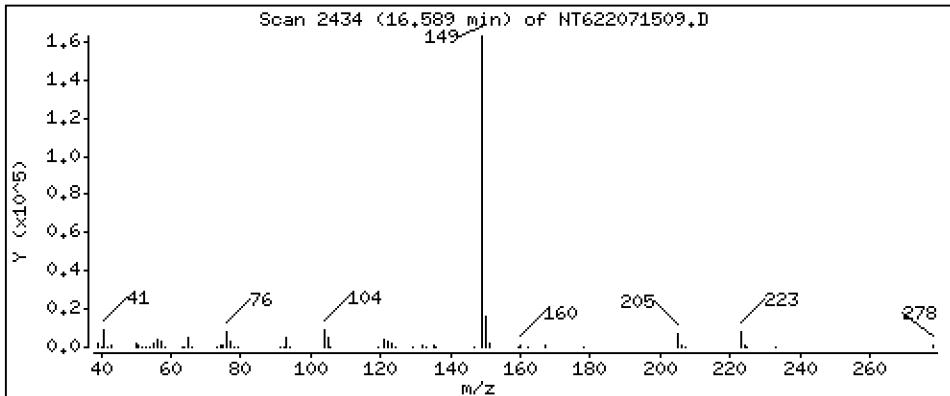
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

63 Di-n-butylphthalate

Concentration: 25,21 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

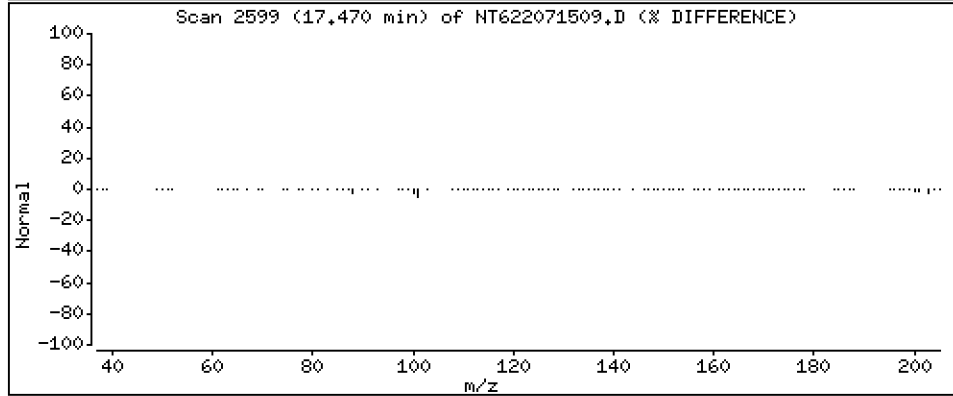
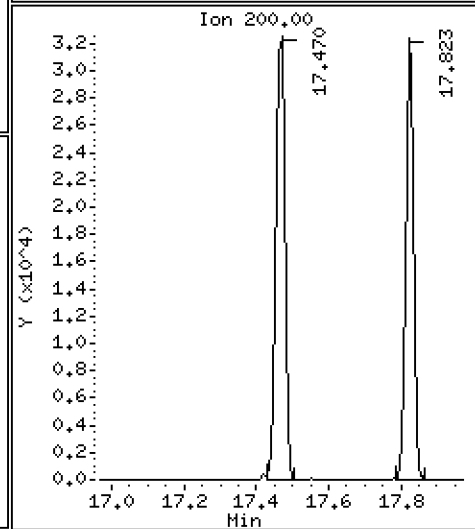
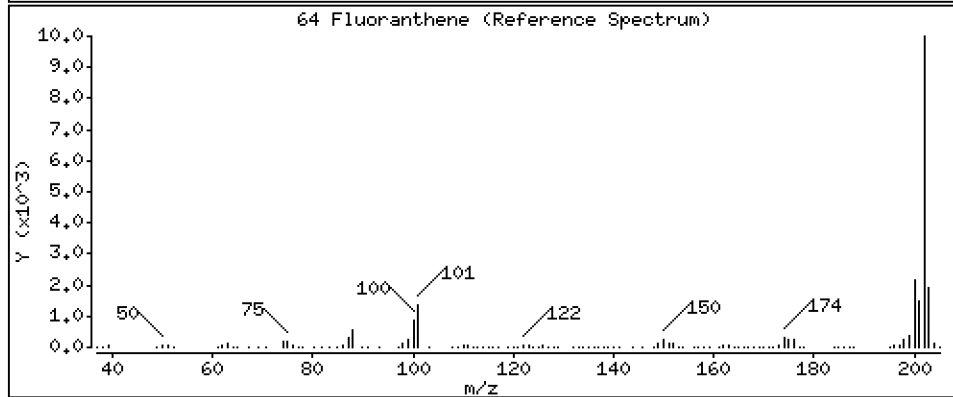
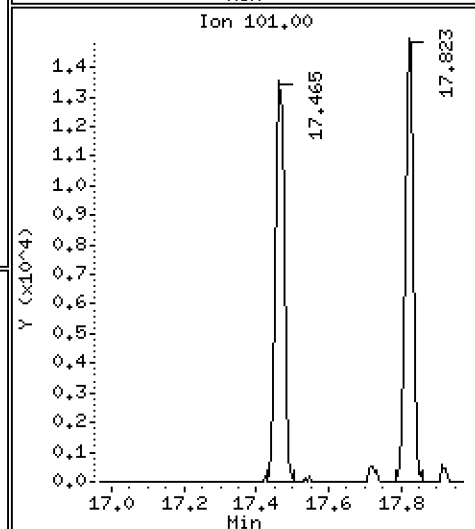
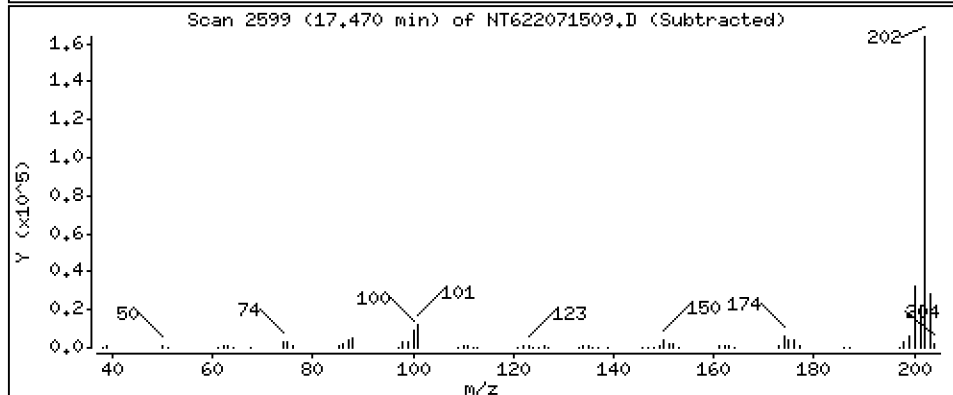
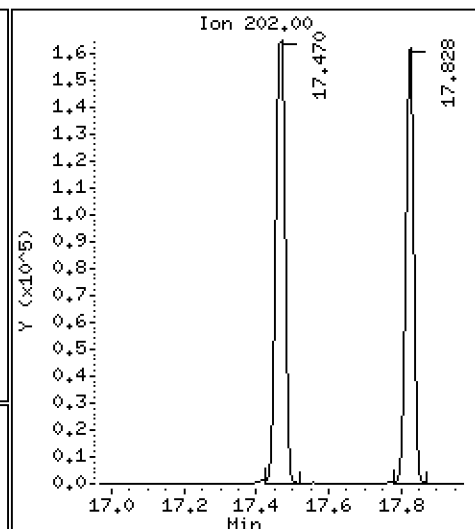
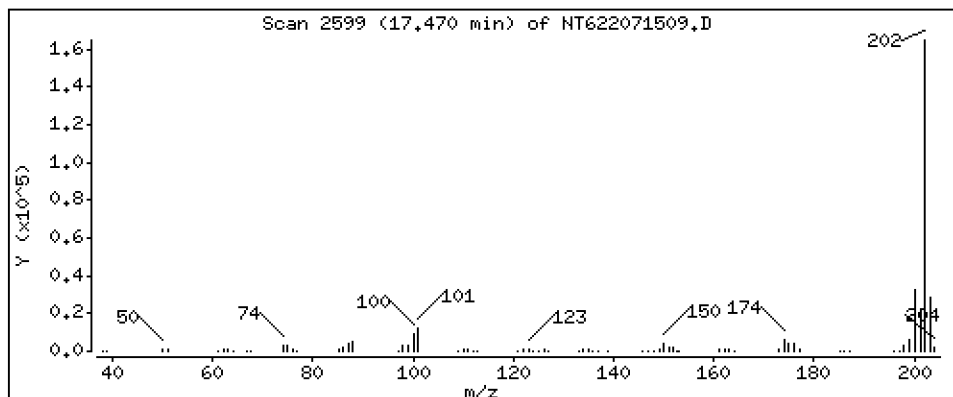
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

64 Fluoranthene

Concentration: 25,08 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

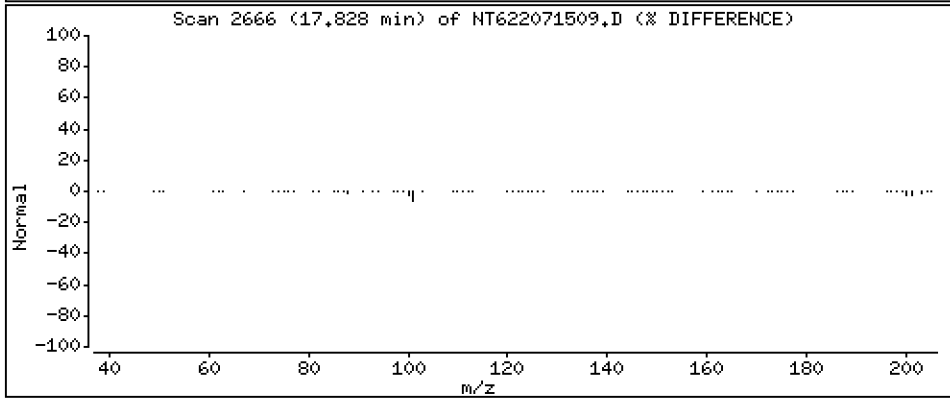
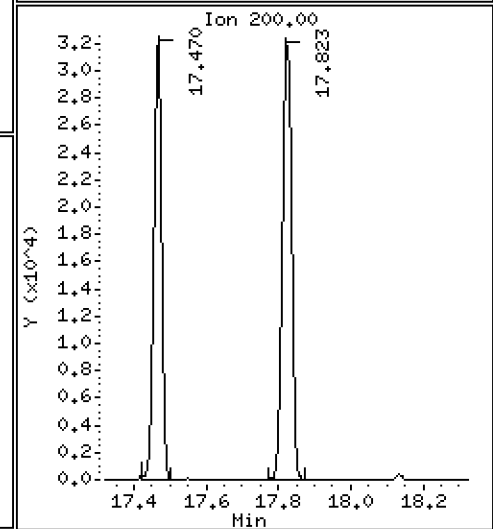
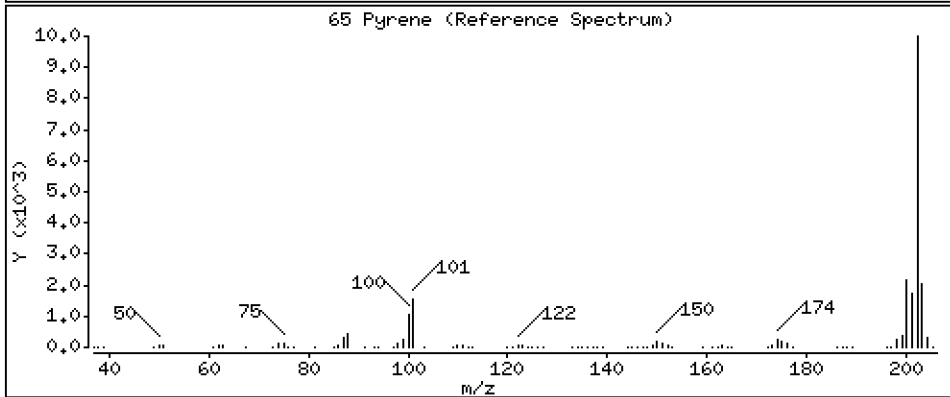
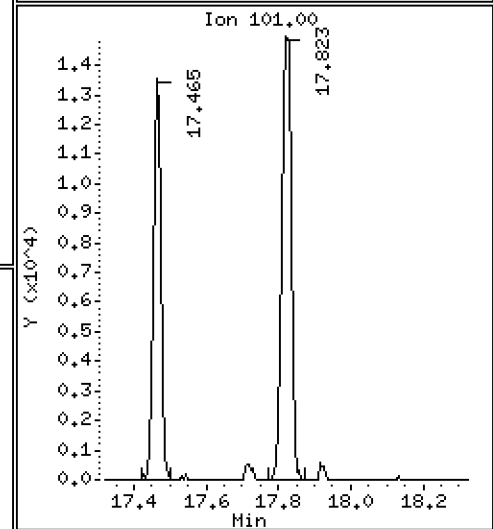
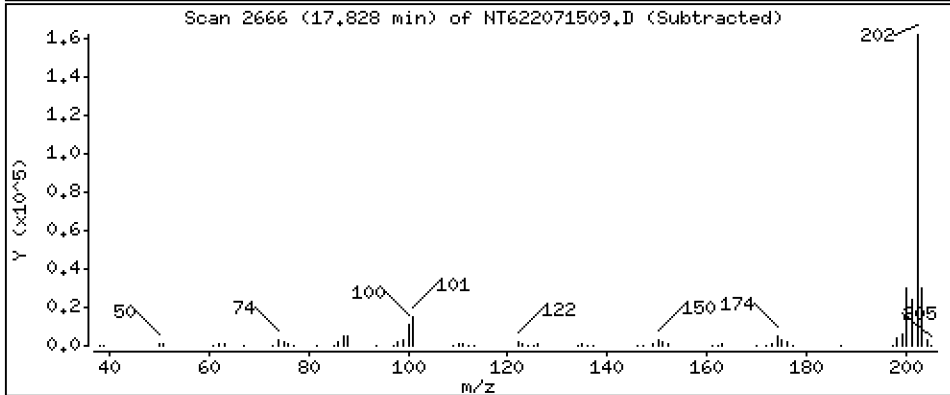
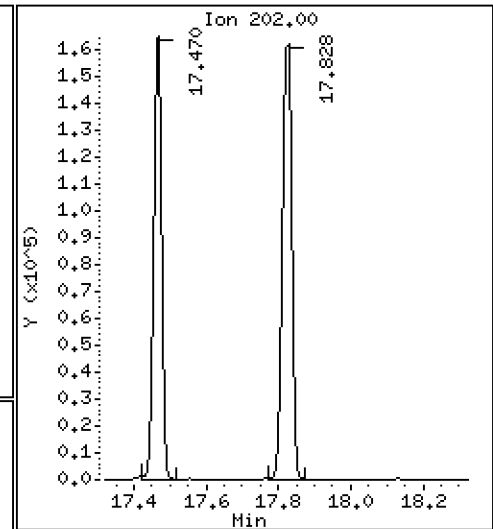
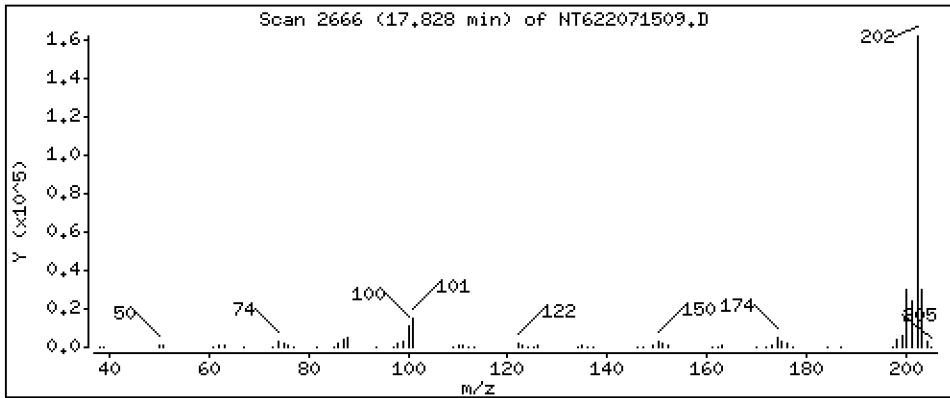
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

65 Pyrene

Concentration: 23,09 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

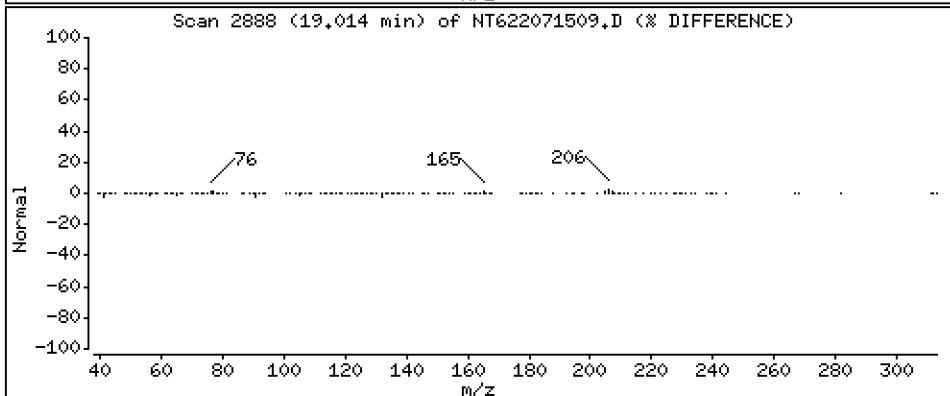
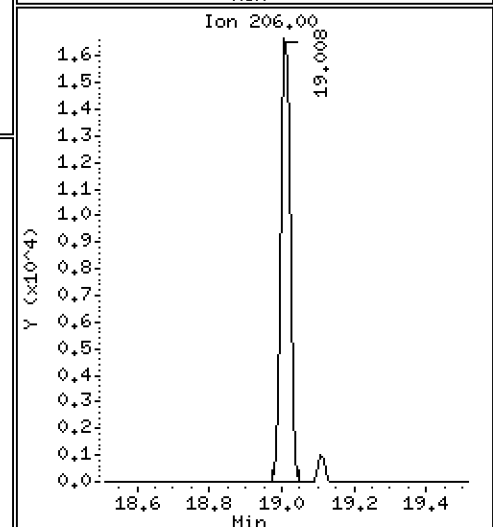
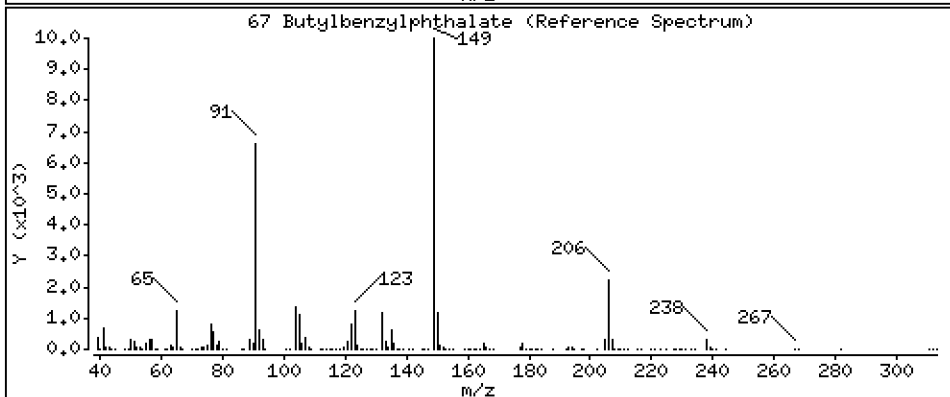
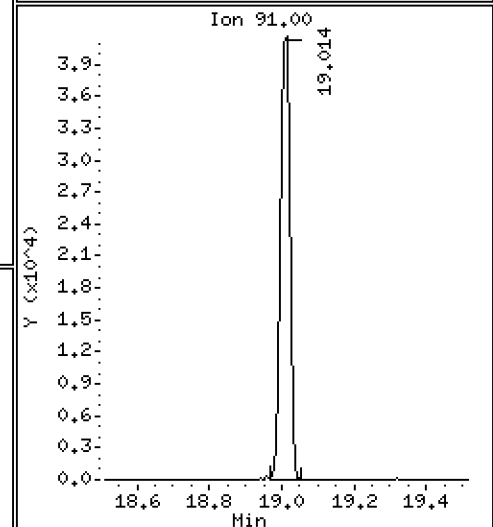
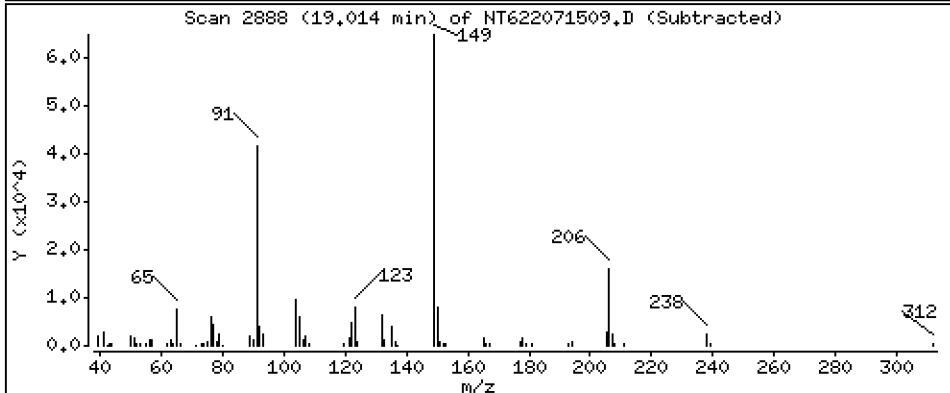
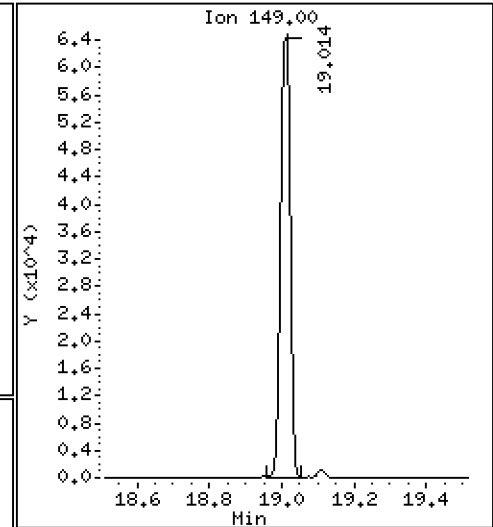
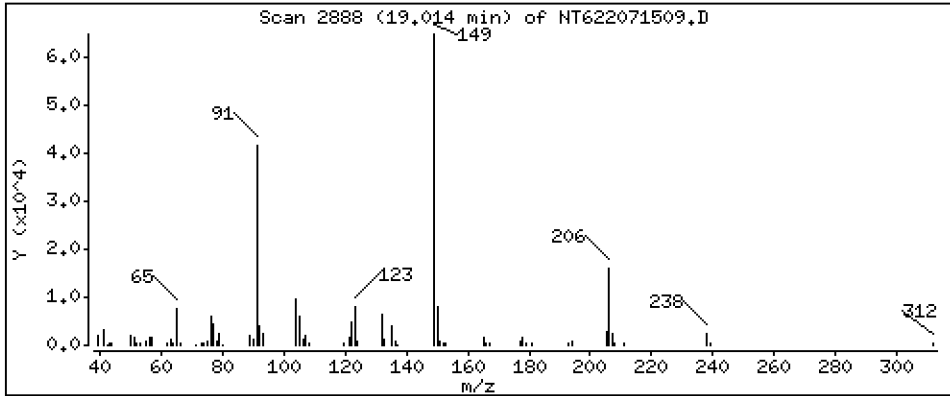
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

67 Butylbenzylphthalate

Concentration: 24.17 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

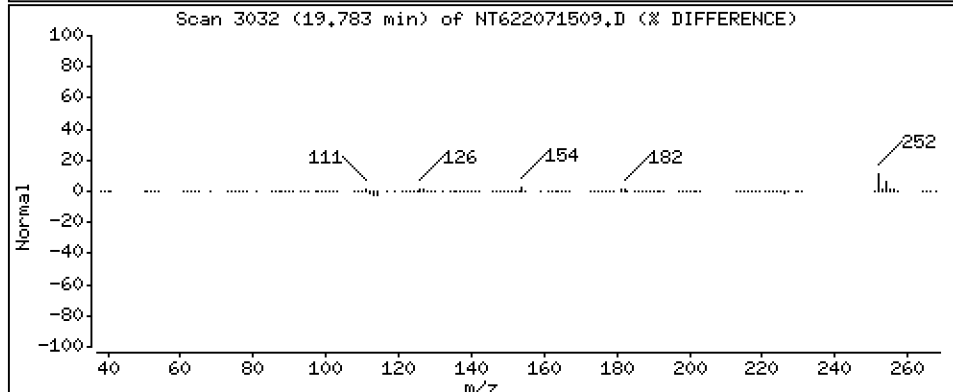
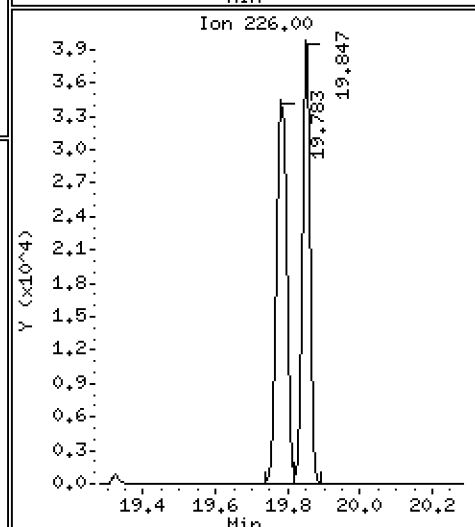
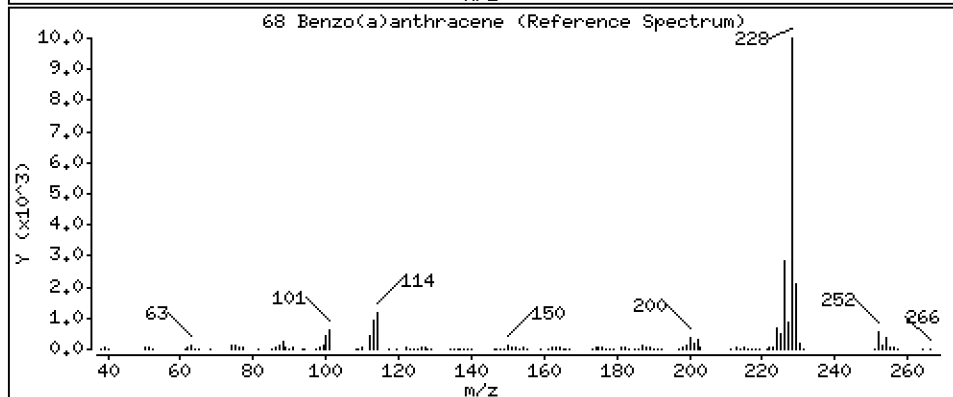
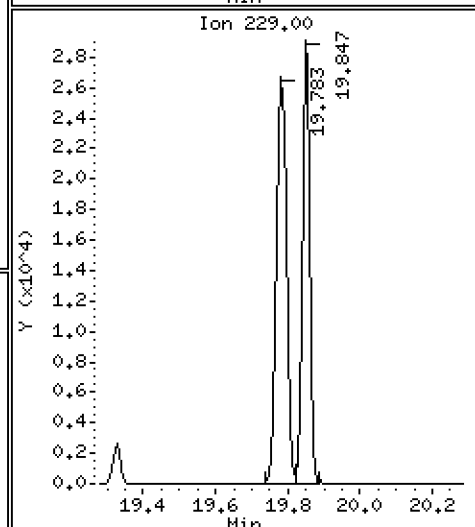
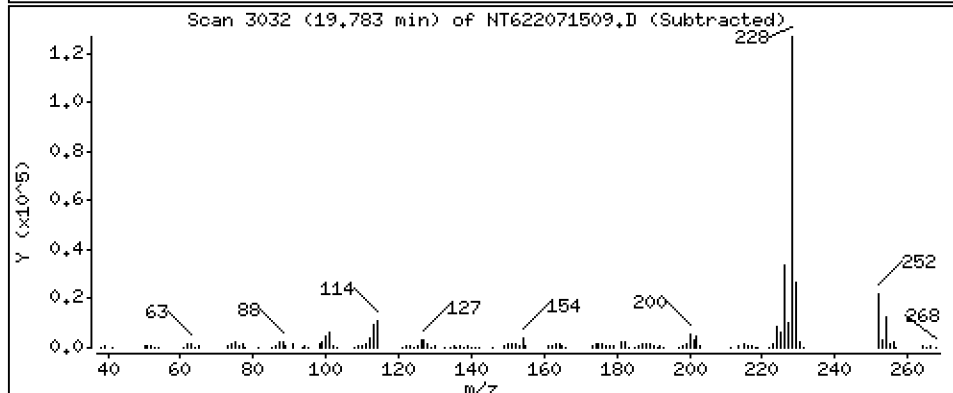
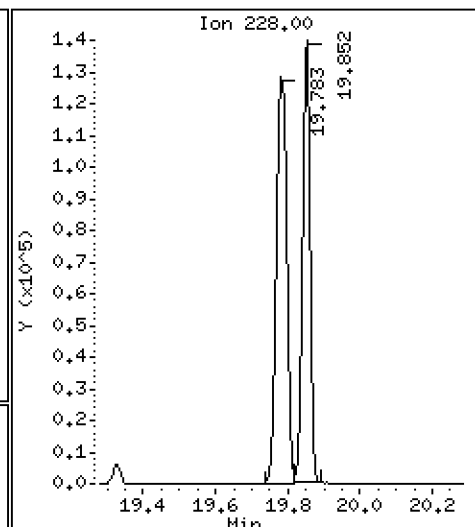
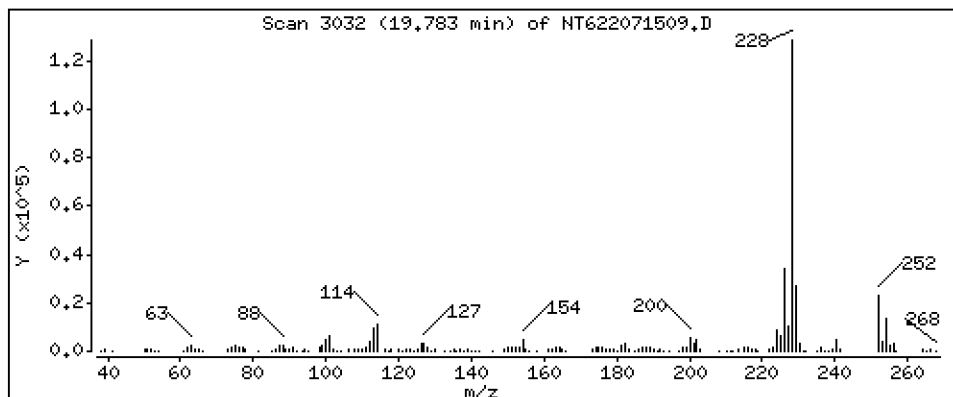
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

68 Benzo(a)anthracene

Concentration: 23,30 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

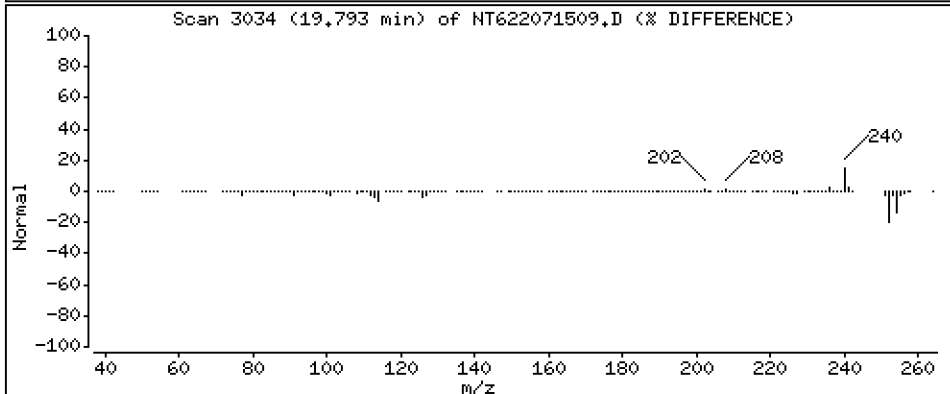
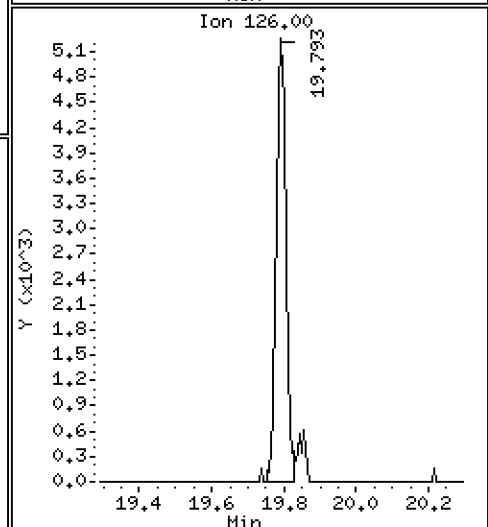
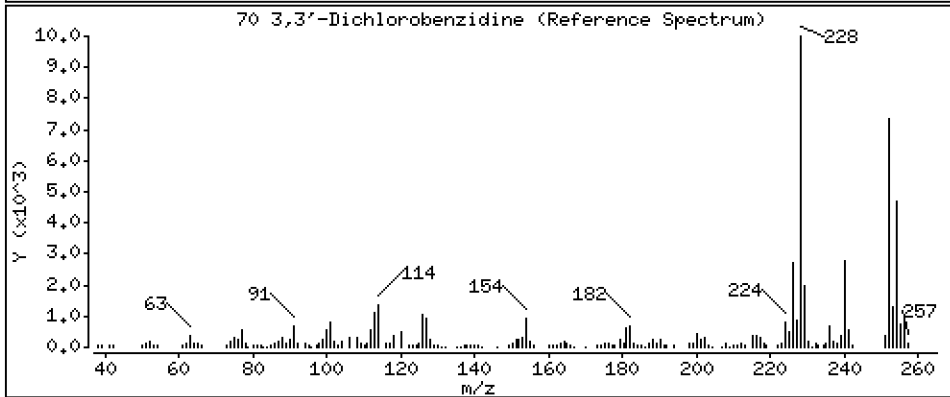
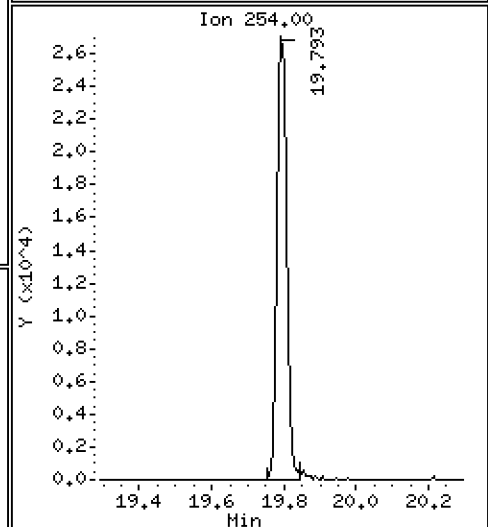
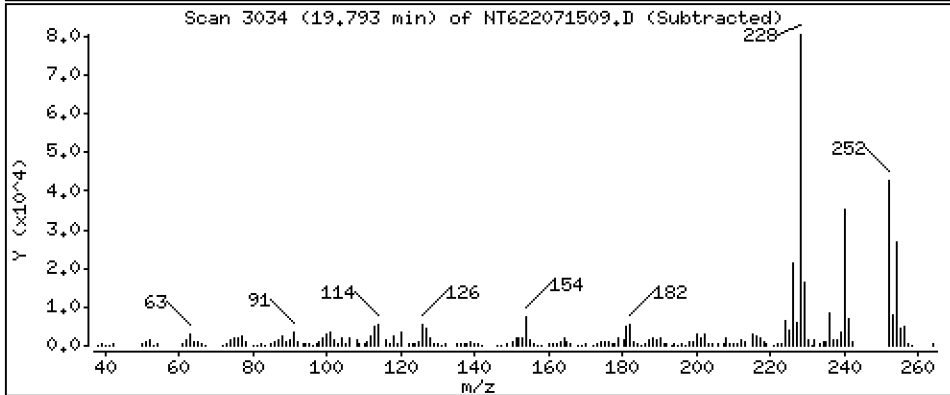
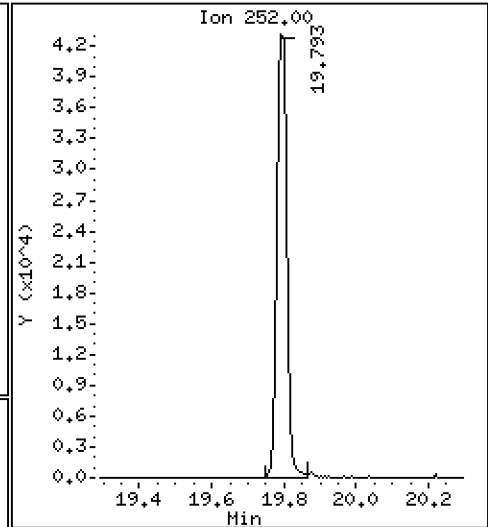
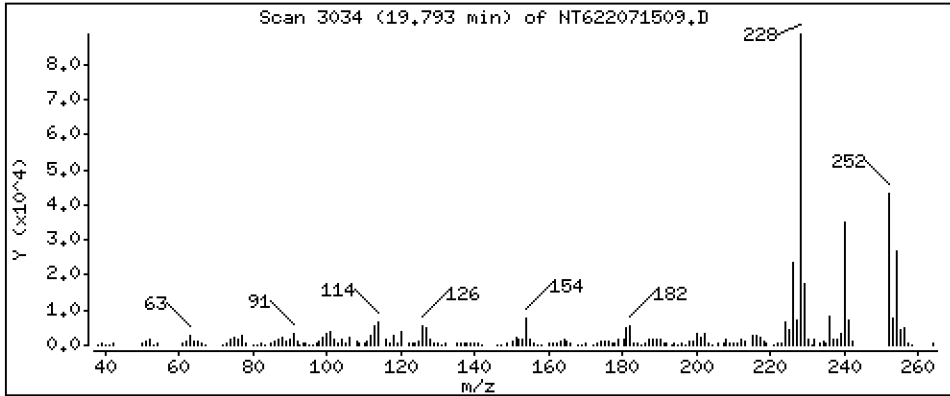
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

70 3,3'-Dichlorobenzidine

Concentration: 24,83 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

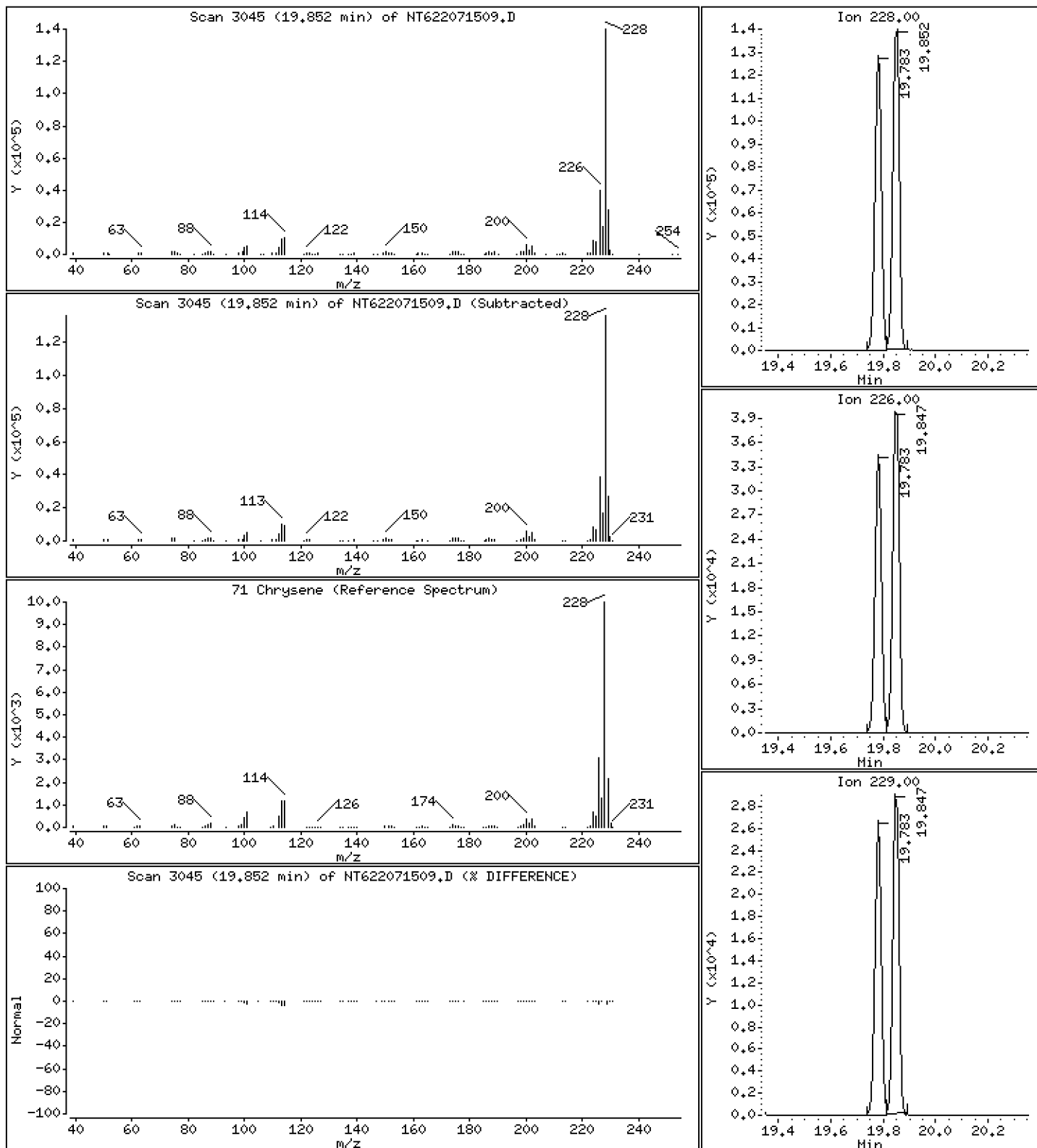
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

71 Chrysene

Concentration: 23,18 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

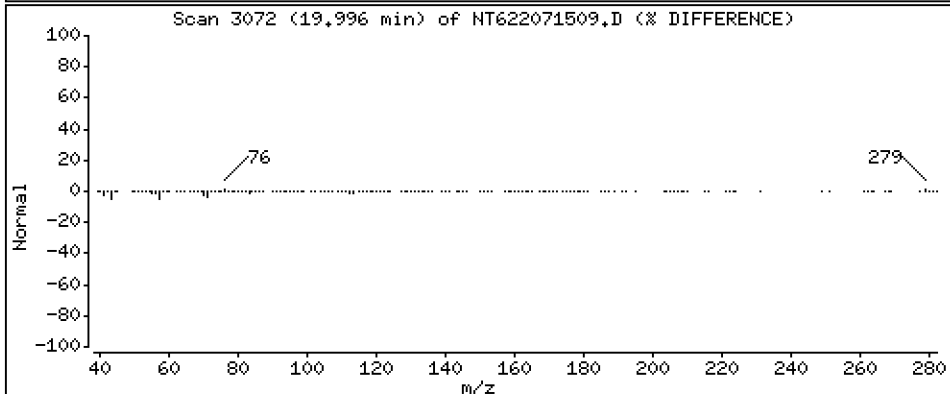
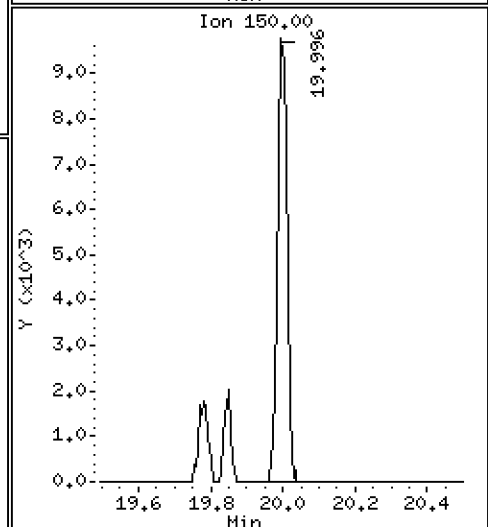
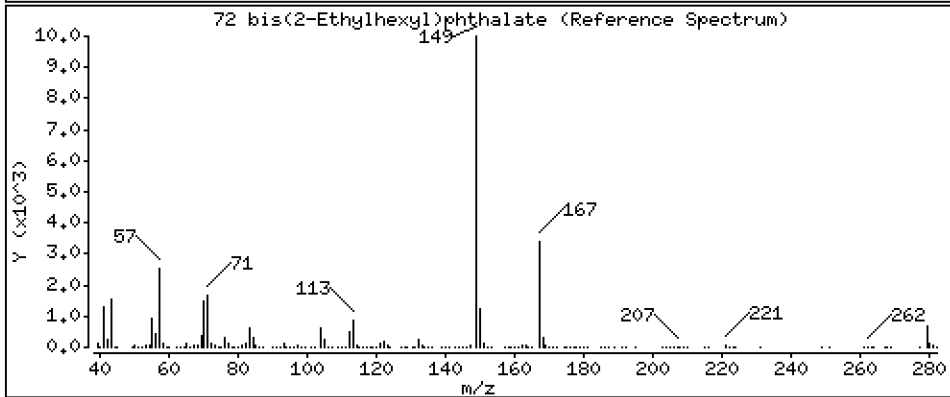
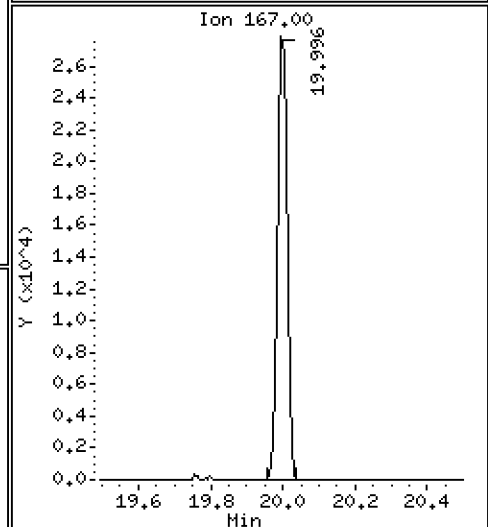
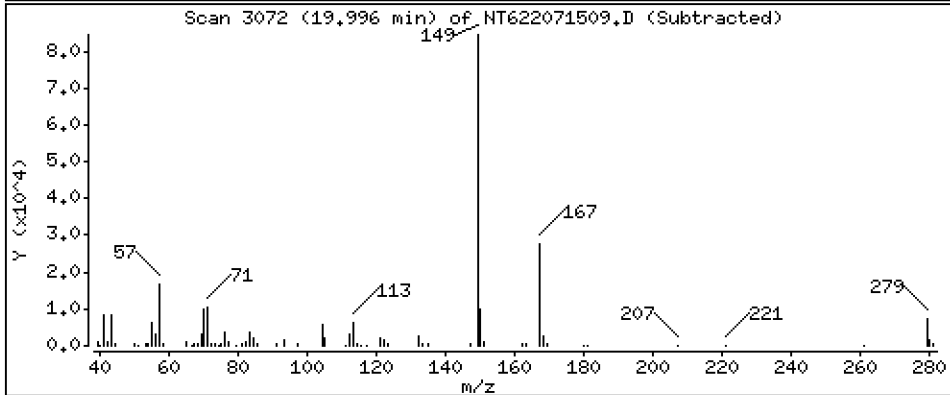
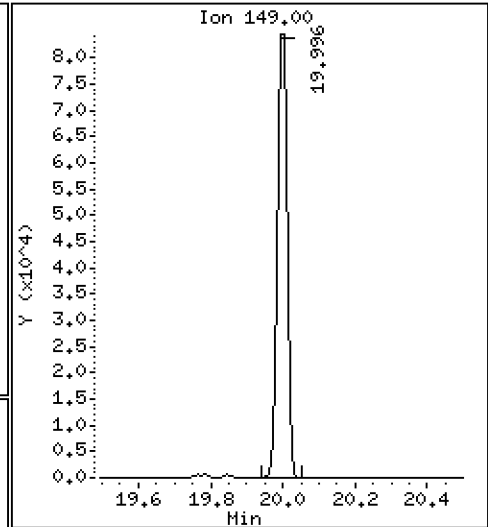
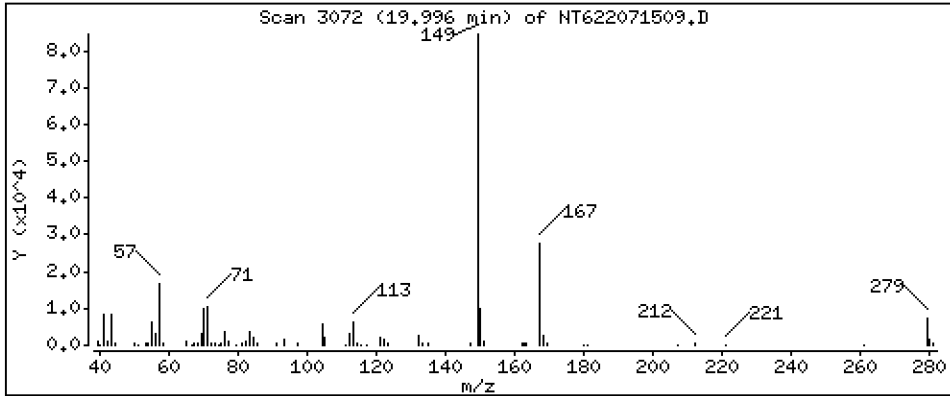
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

72 bis(2-Ethylhexyl)phthalate

Concentration: 24.67 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

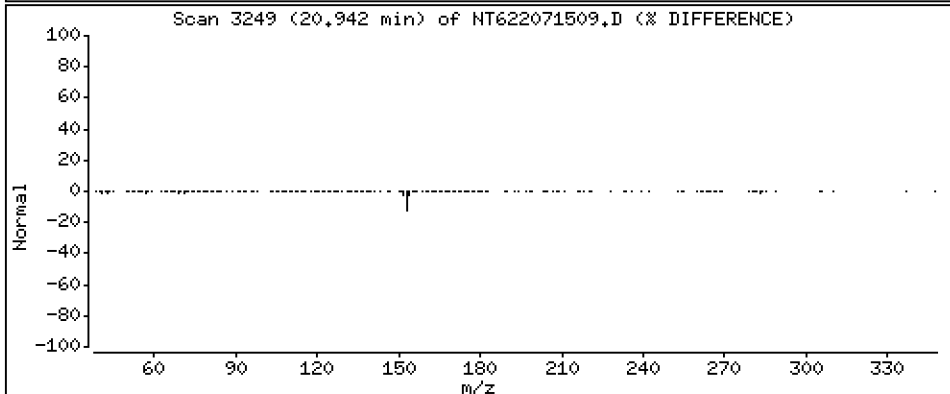
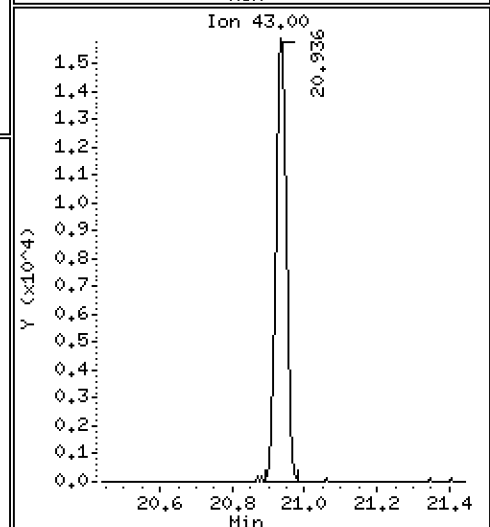
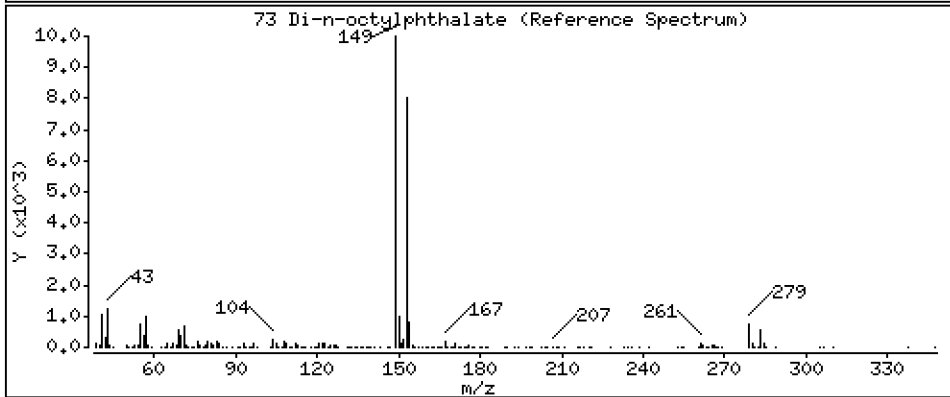
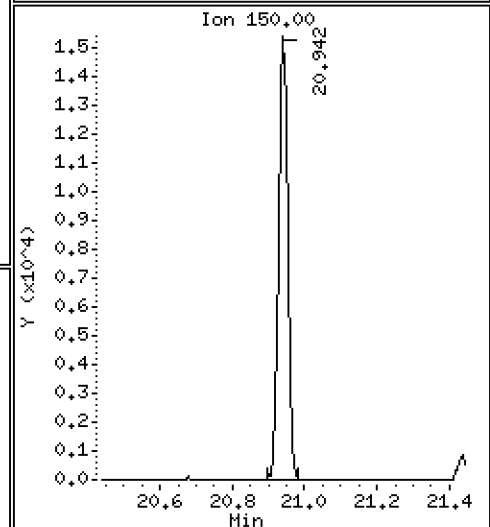
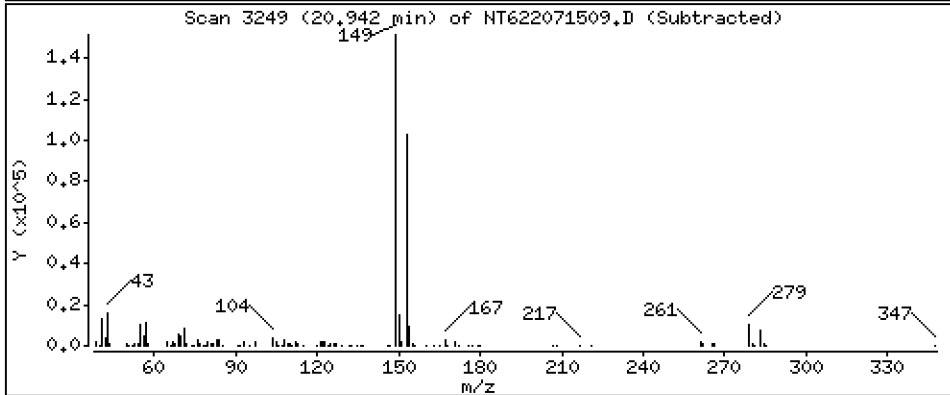
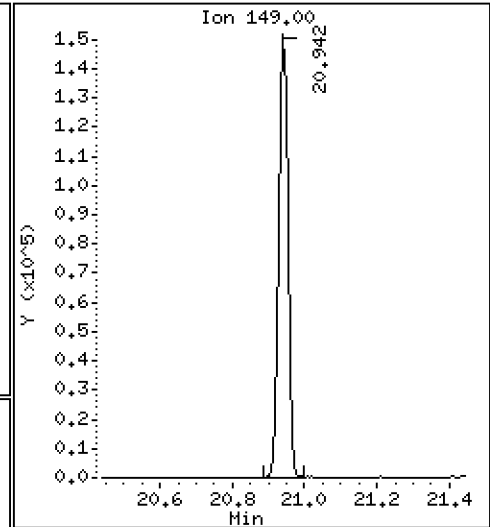
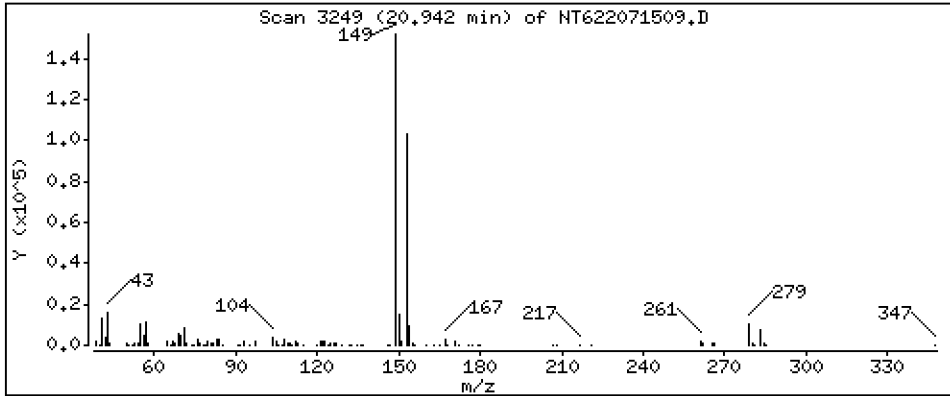
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

73 Di-n-octylphthalate

Concentration: 23,21 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

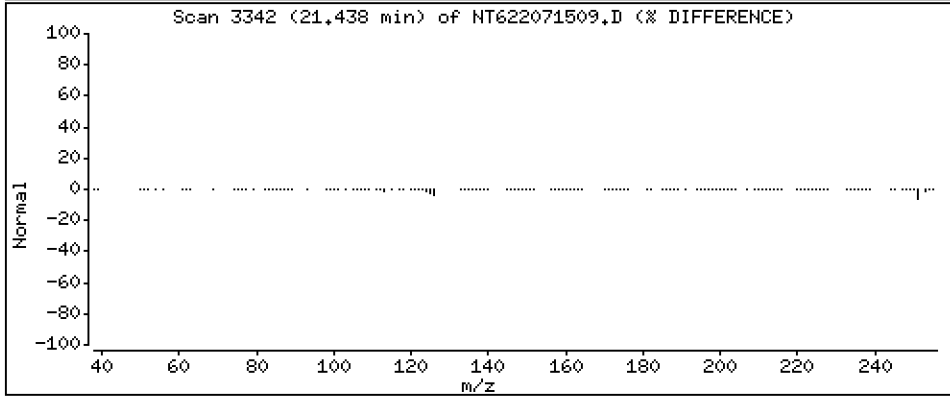
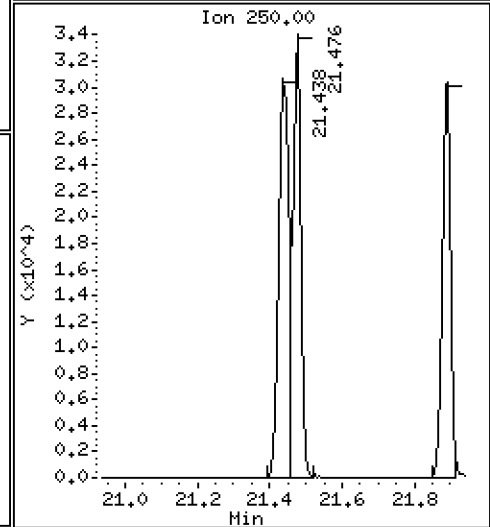
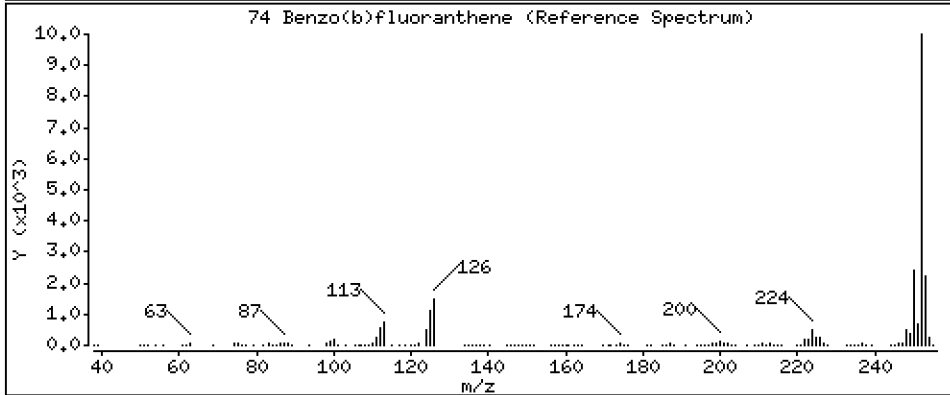
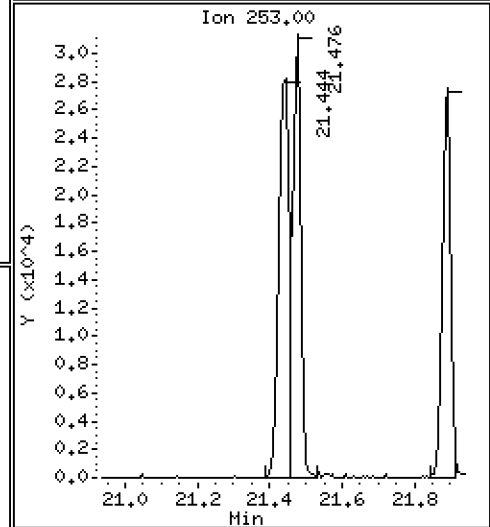
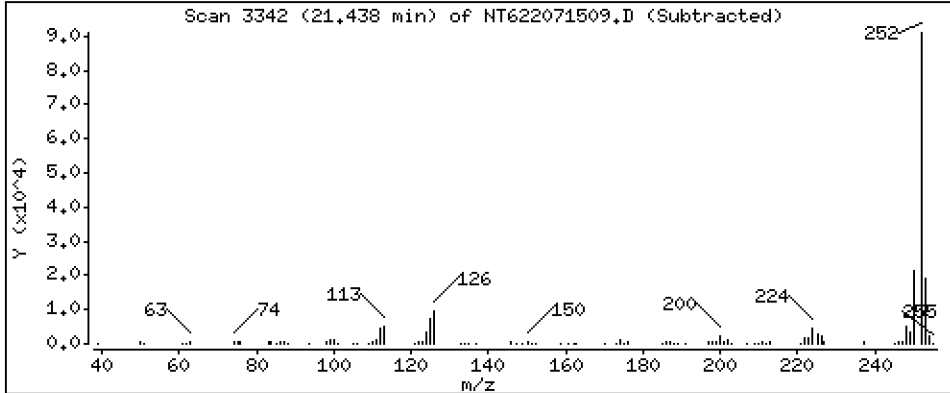
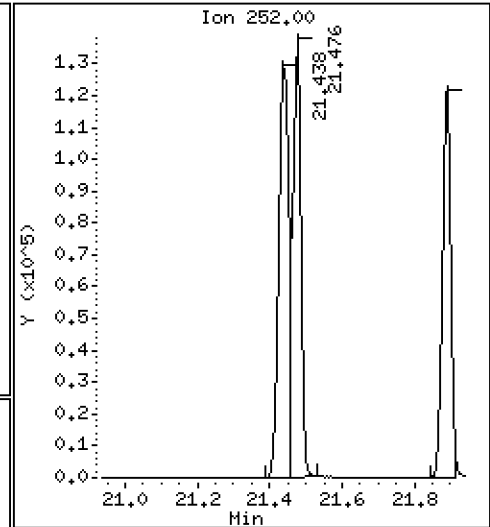
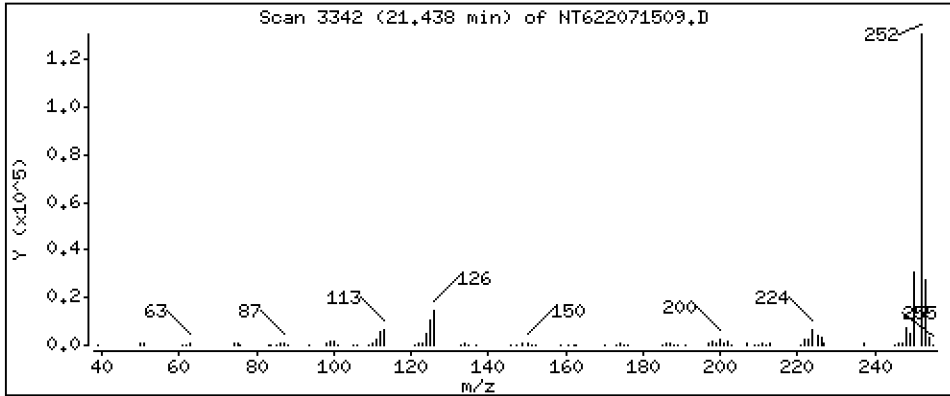
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

74 Benzo(b)fluoranthene

Concentration: 24.18 ug/mL



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Client ID:

Instrument: nt6.i

Sample Info: CCV220715

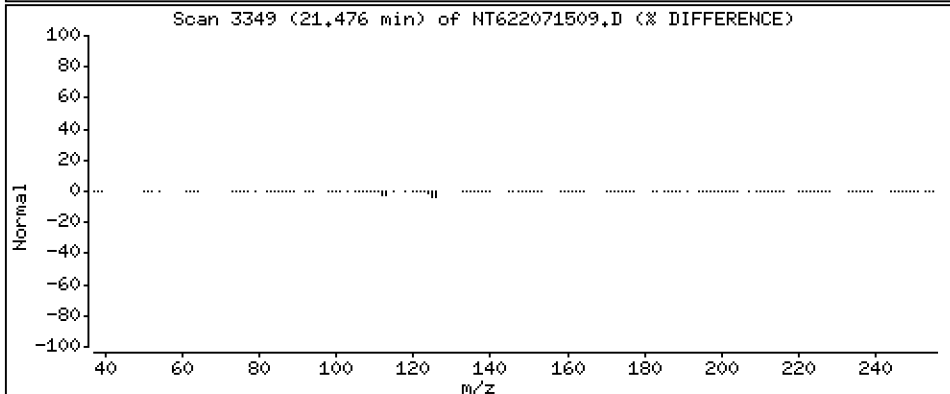
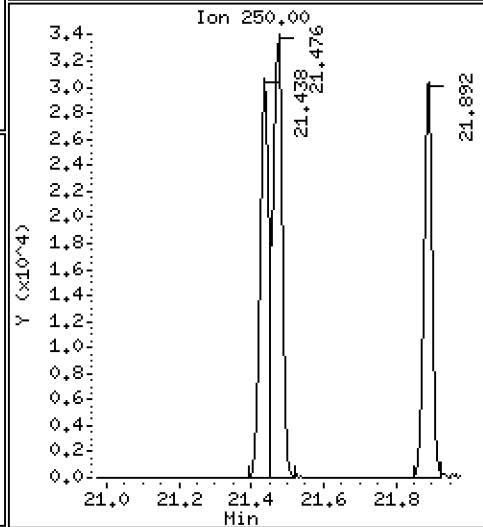
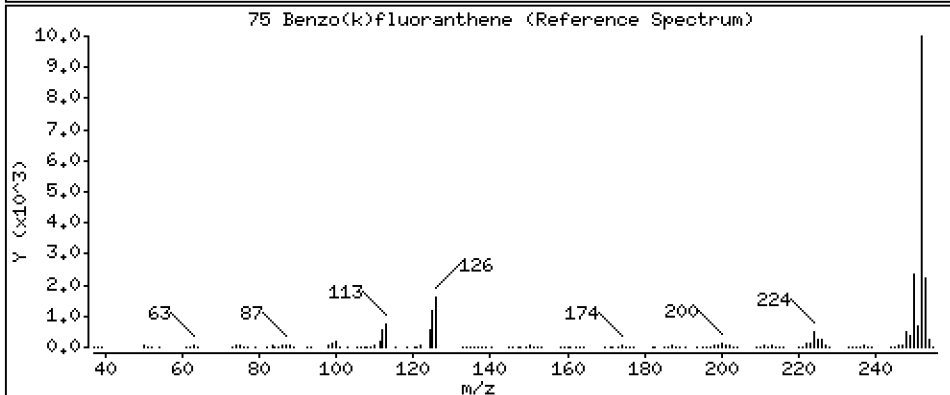
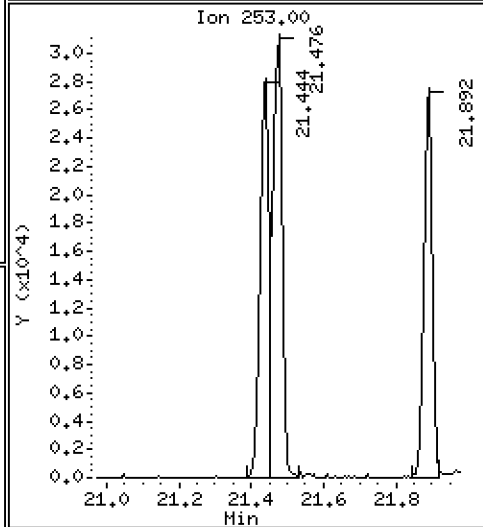
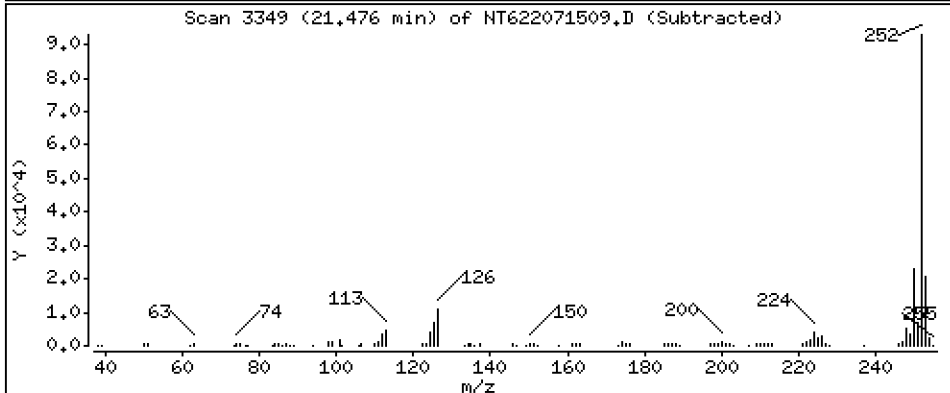
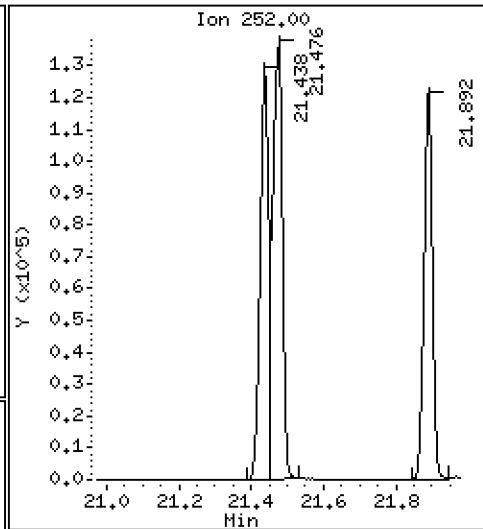
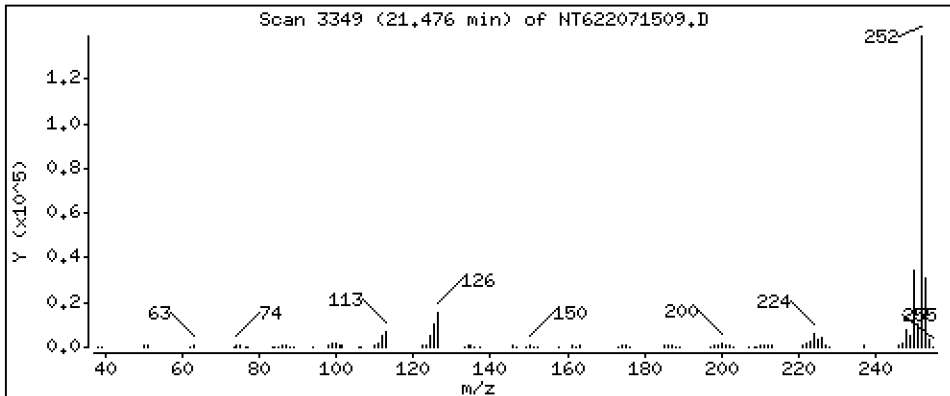
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

75 Benzo(k)fluoranthene

Concentration: 25.68 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

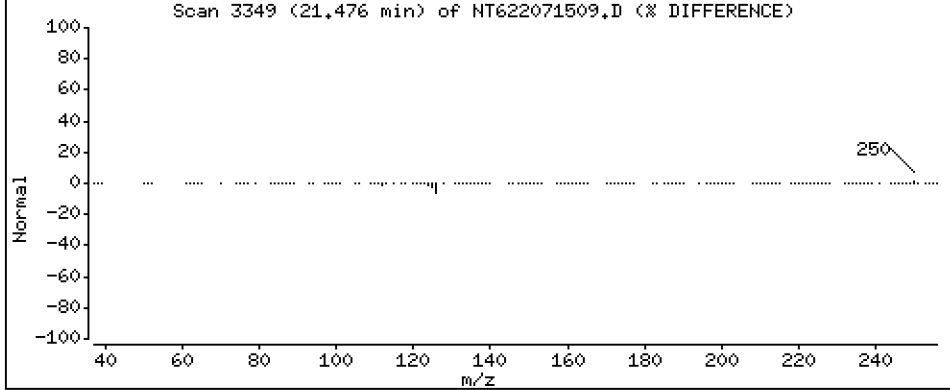
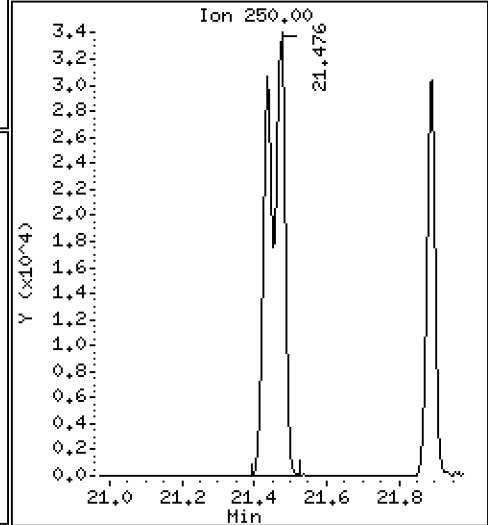
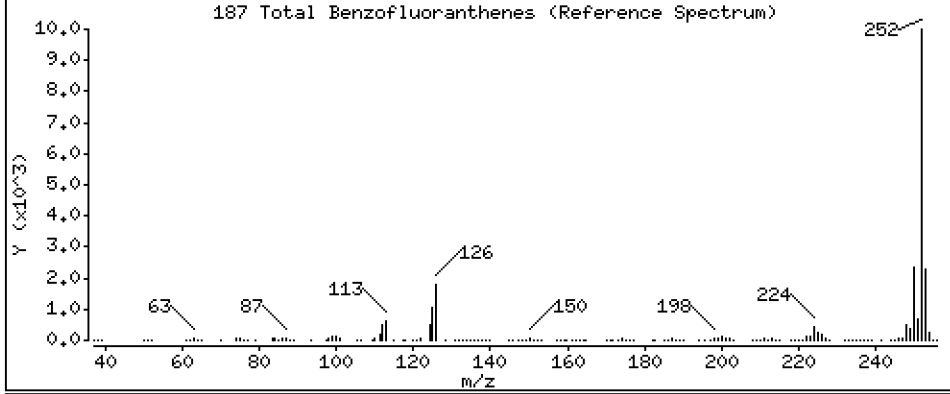
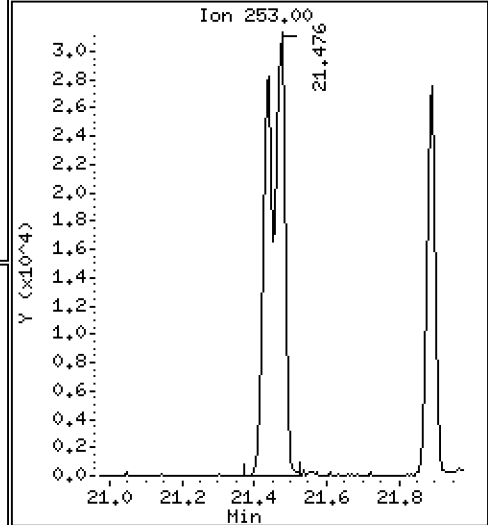
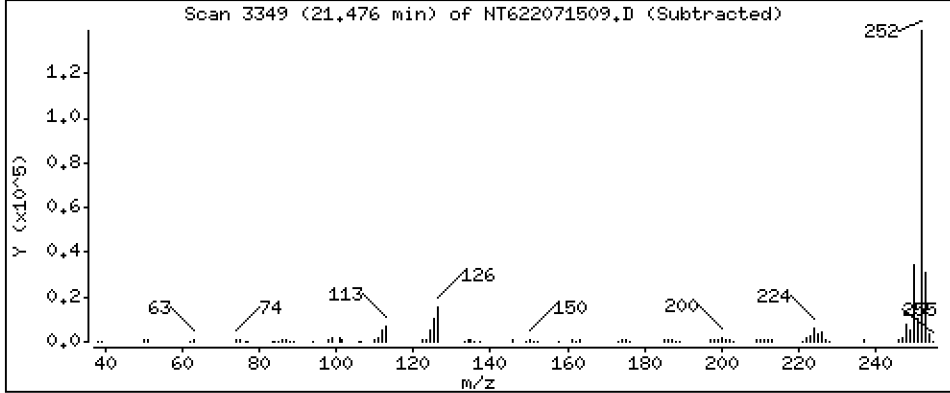
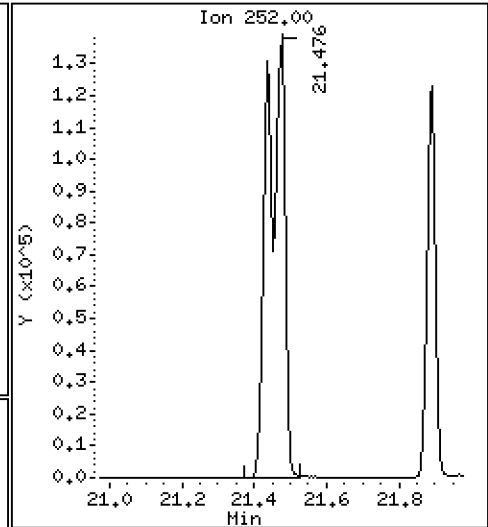
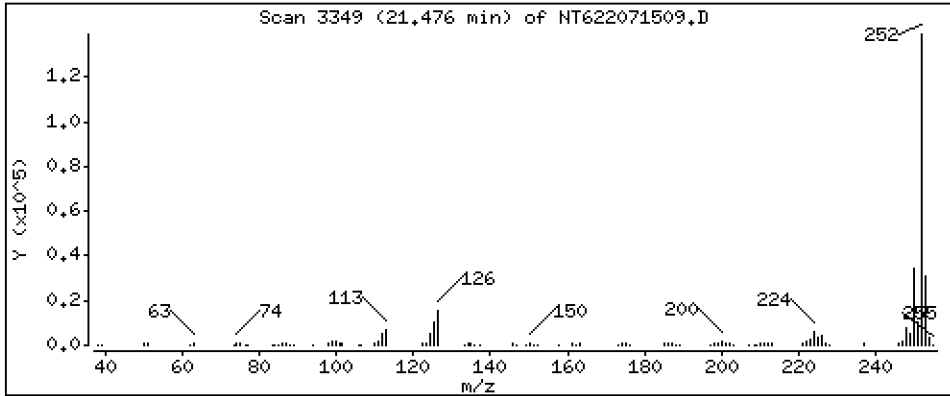
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

187 Total Benzofluoranthenes

Concentration: 49.94 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

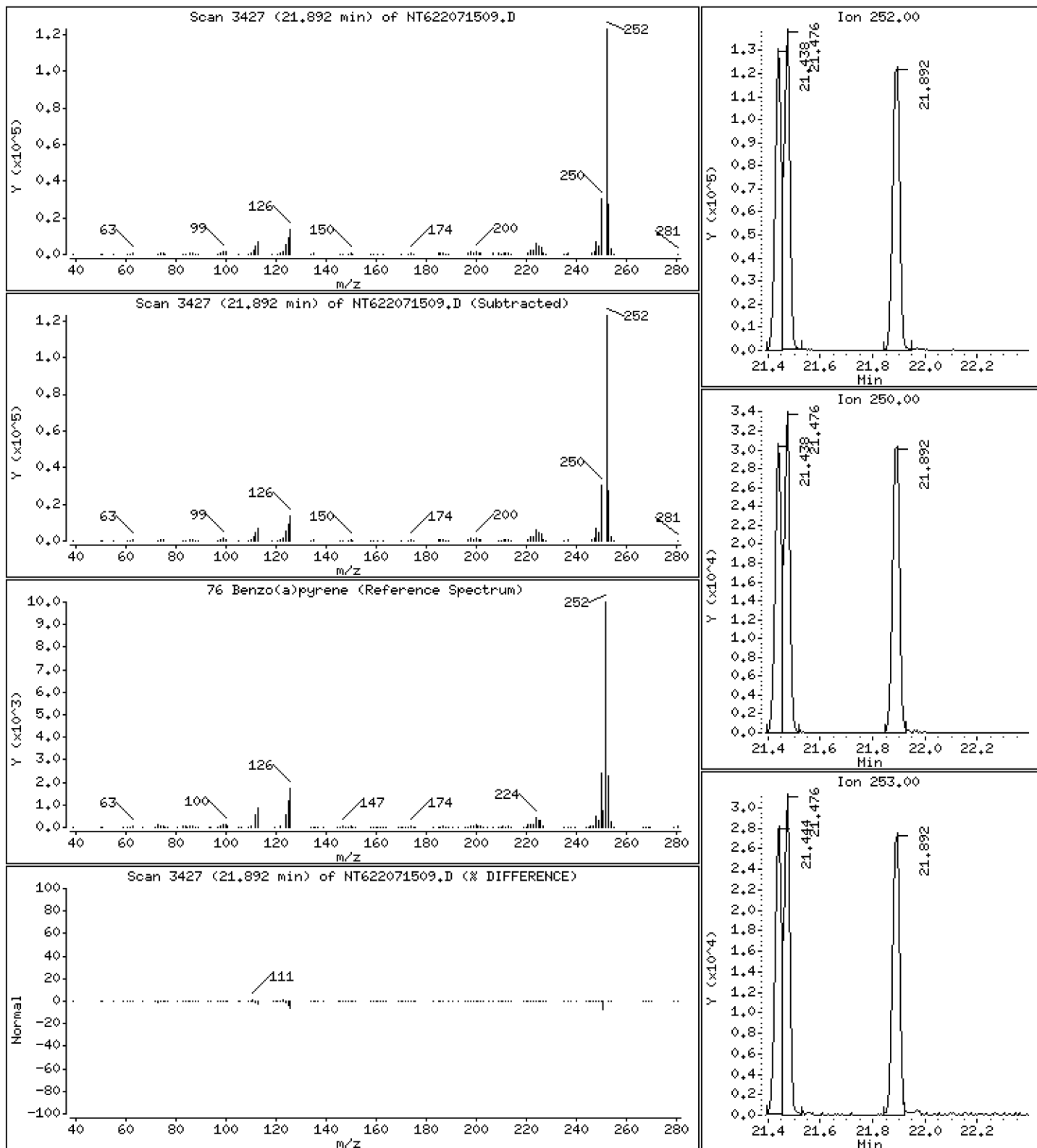
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

76 Benzo(a)pyrene

Concentration: 23.86 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

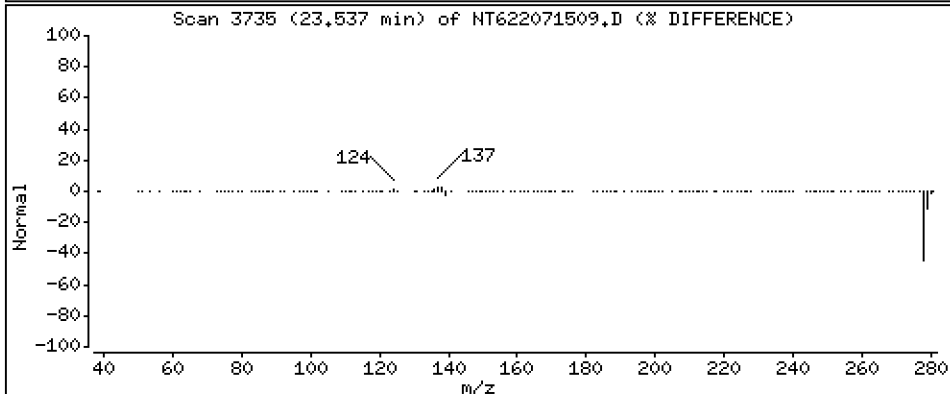
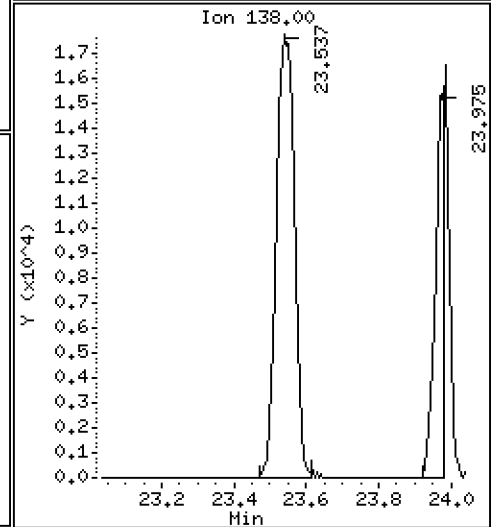
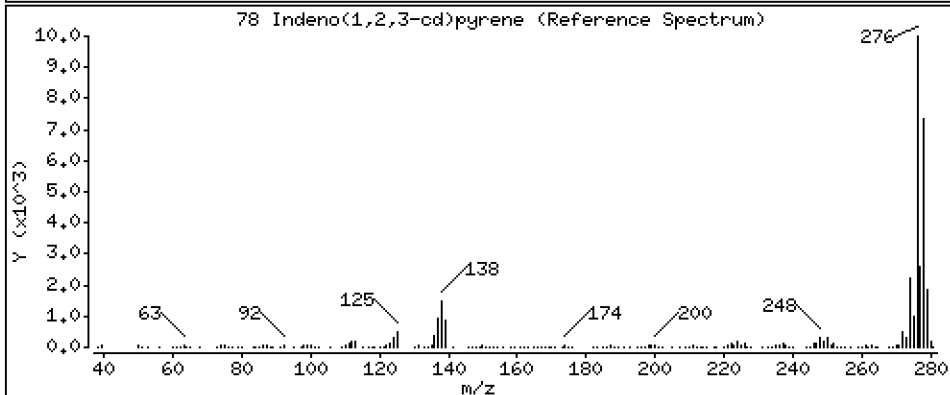
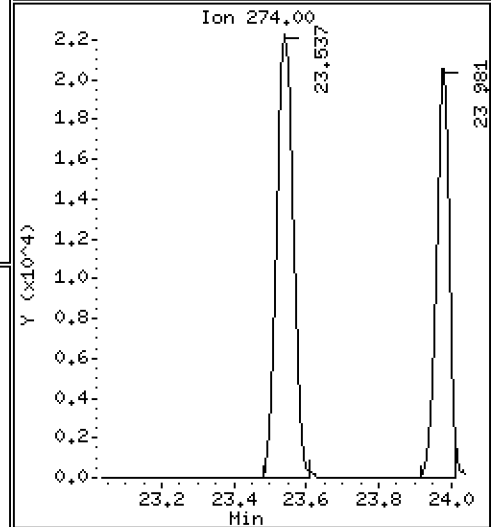
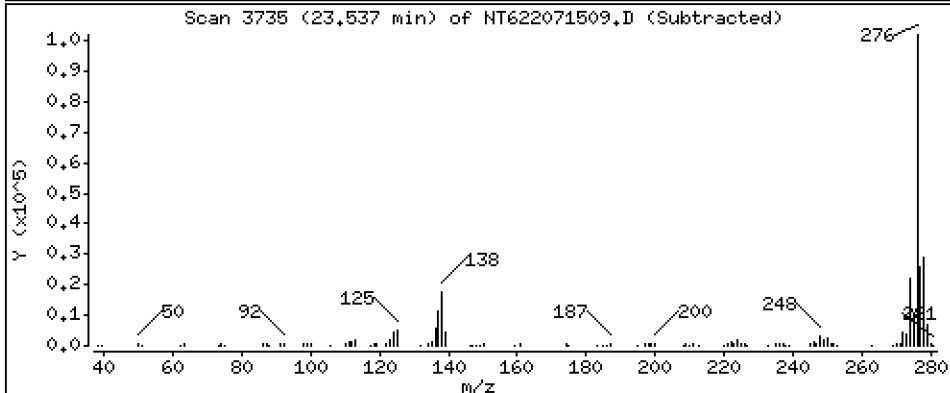
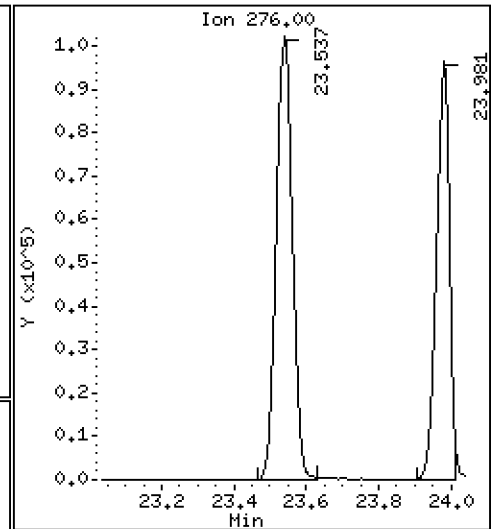
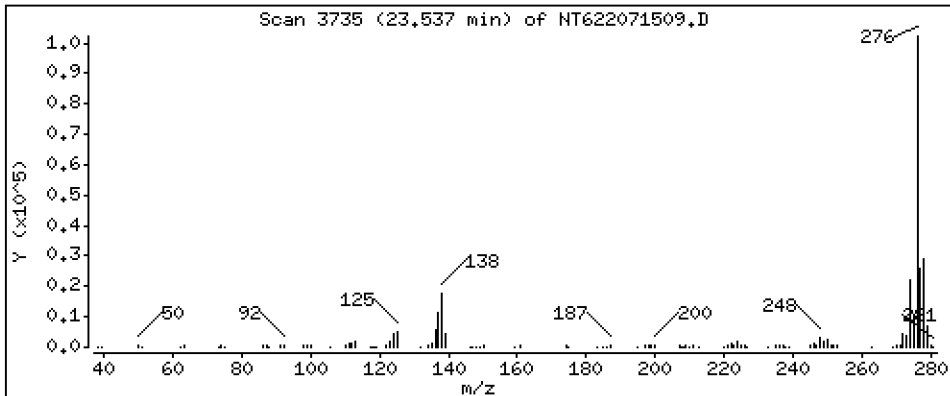
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

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

Concentration: 24.07 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

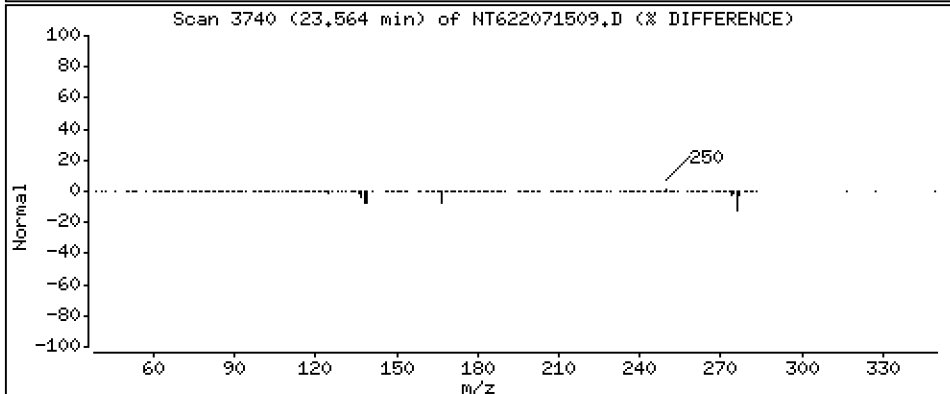
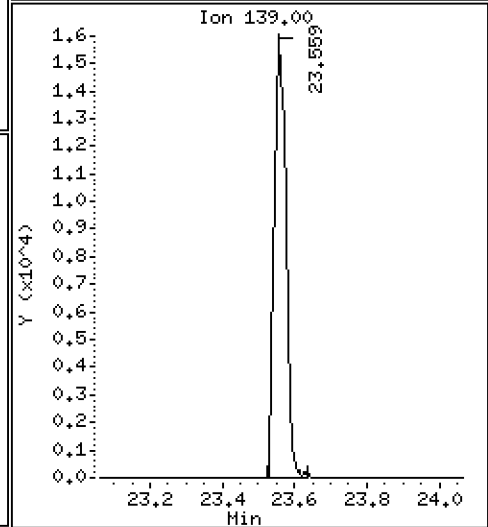
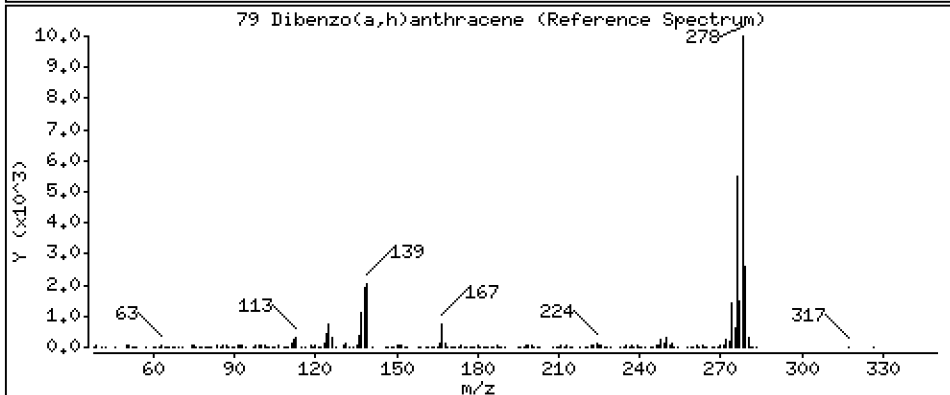
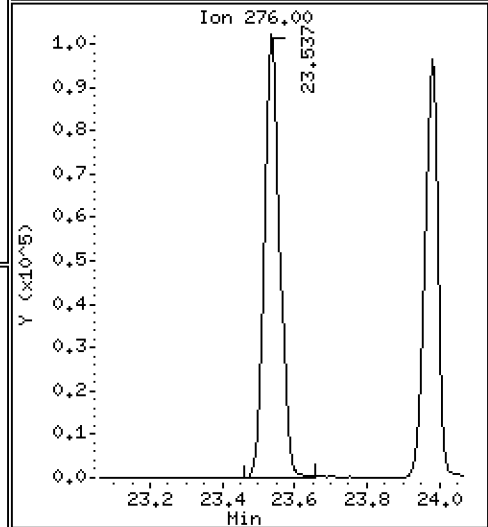
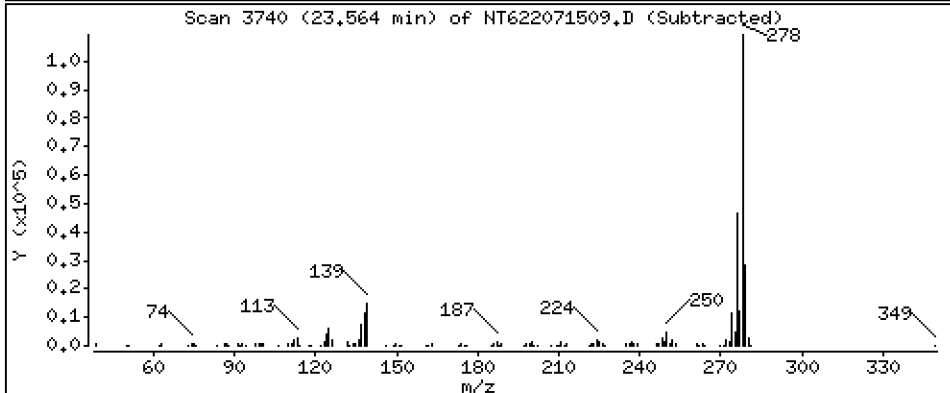
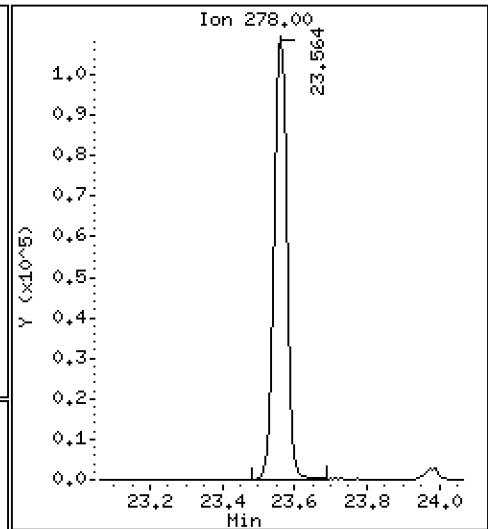
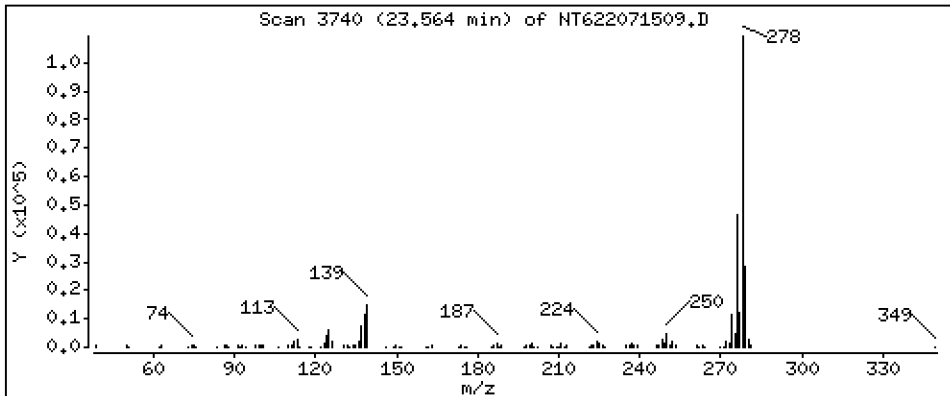
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

79 Dibenzo(a,h)anthracene

Concentration: 23.78 ug/mL



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Client ID:

Instrument: nt6.i

Sample Info: CCV220715

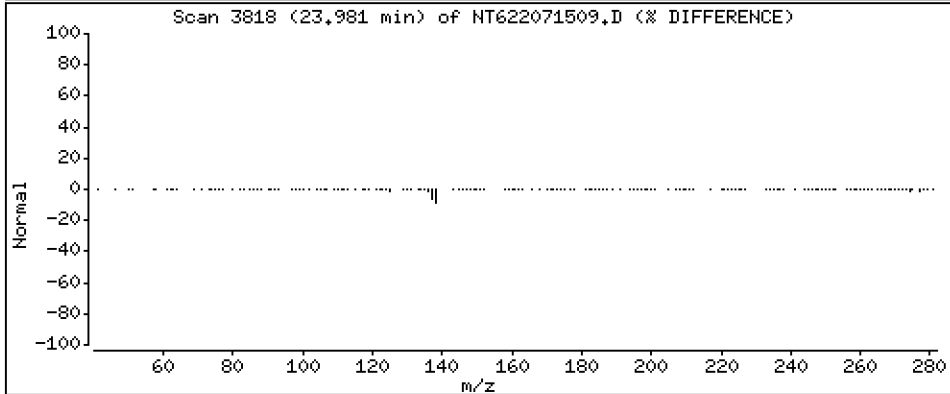
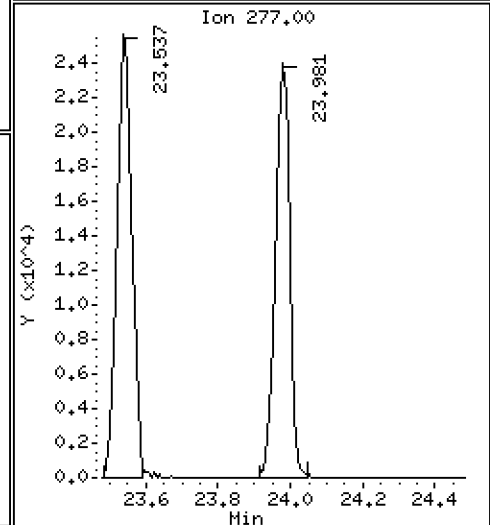
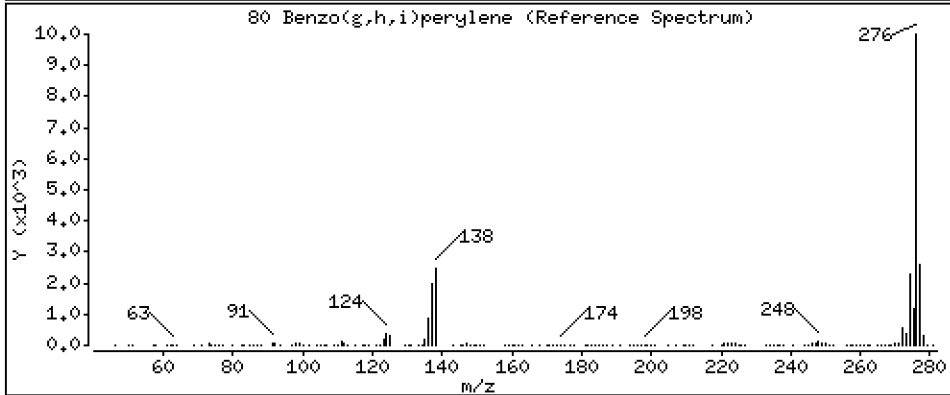
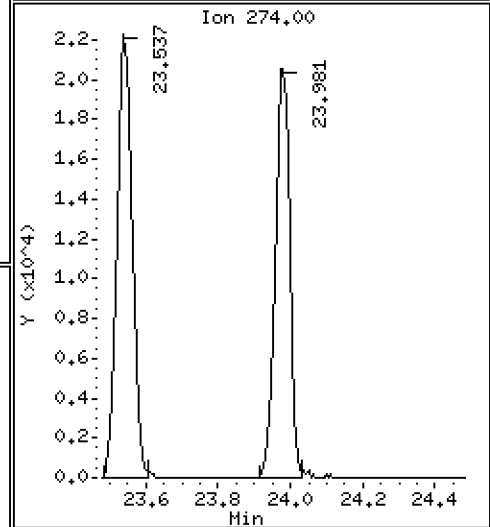
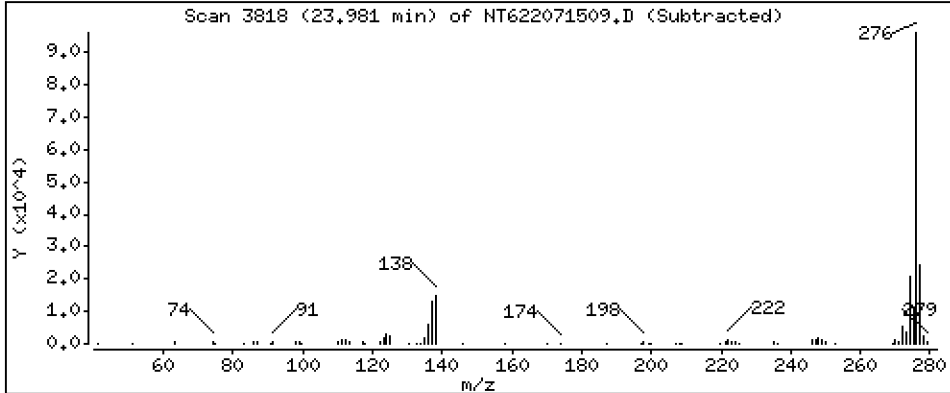
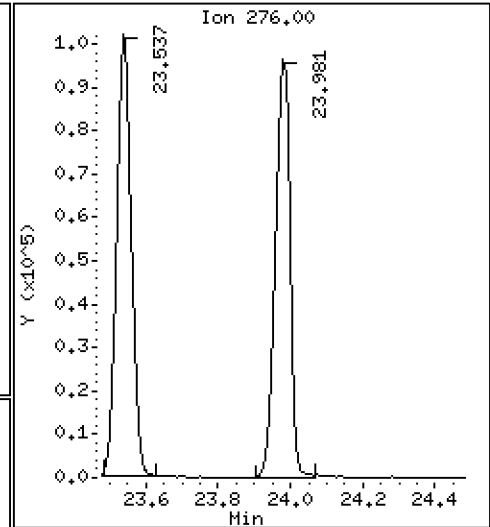
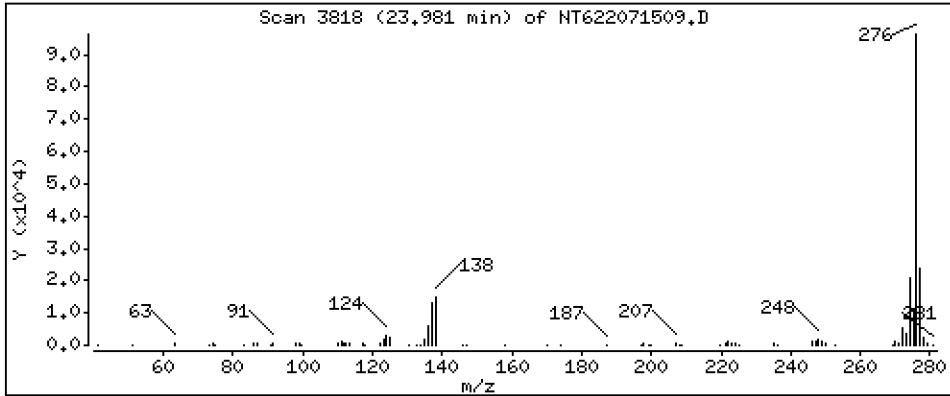
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

80 Benzo(g,h,i)perylene

Concentration: 23.64 ug/mL



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Client ID:

Instrument: nt6.i

Sample Info: CCV220715

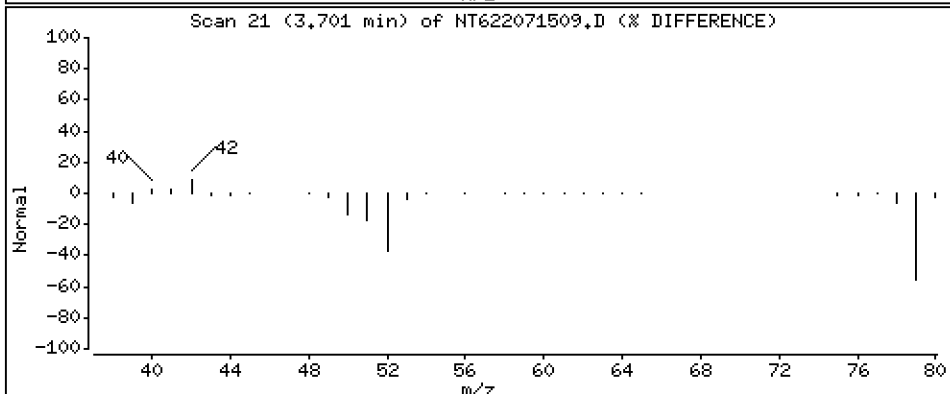
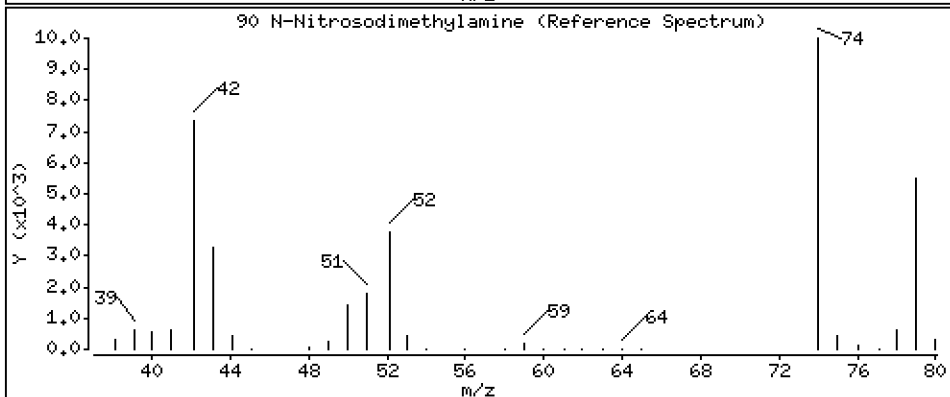
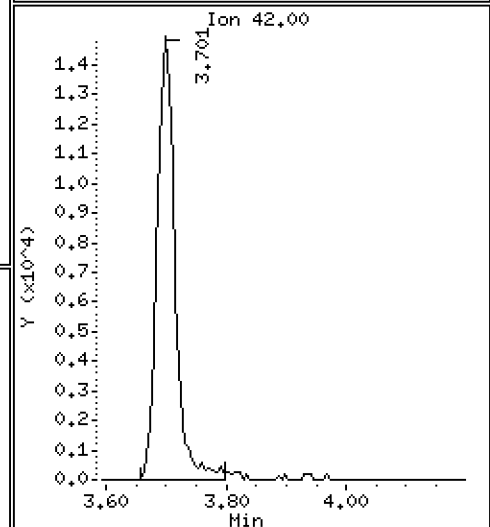
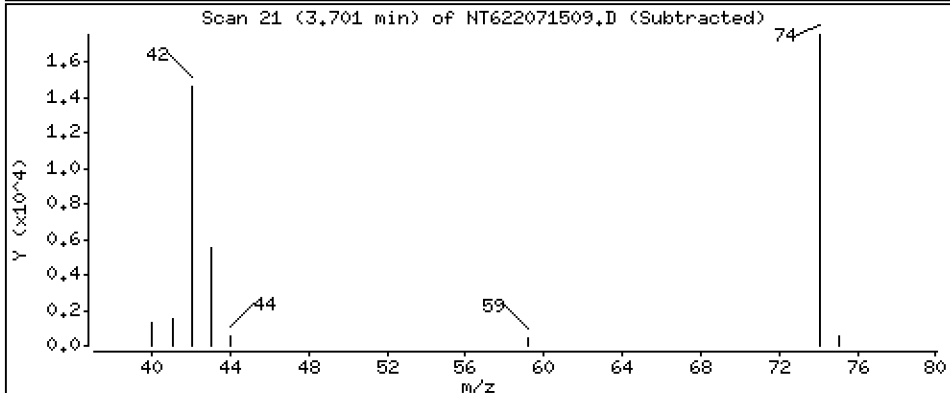
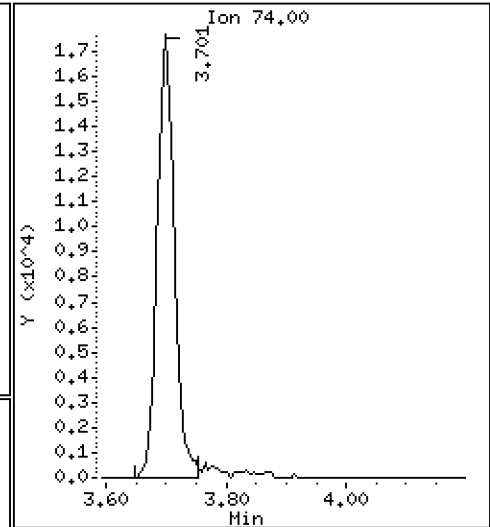
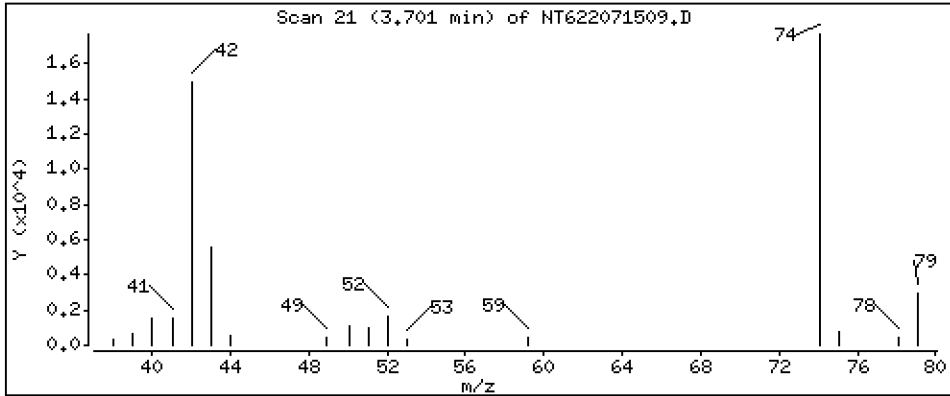
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

90 N-Nitrosodimethylamine

Concentration: 27.11 ug/mL



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Client ID:

Instrument: nt6.i

Sample Info: CCV220715

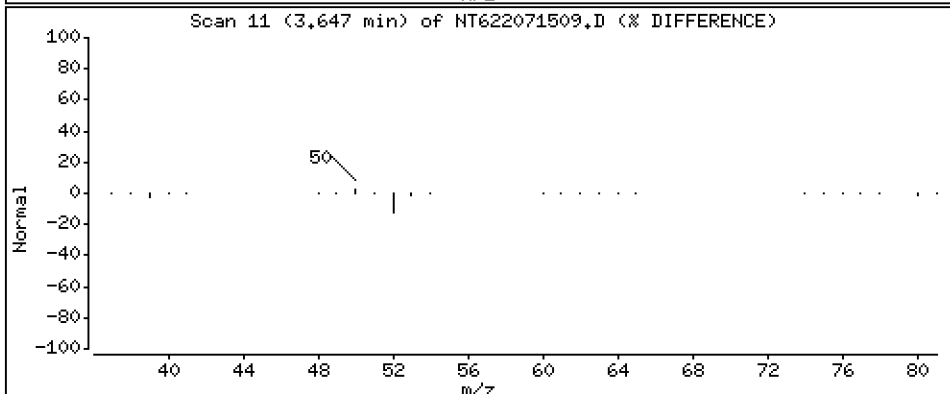
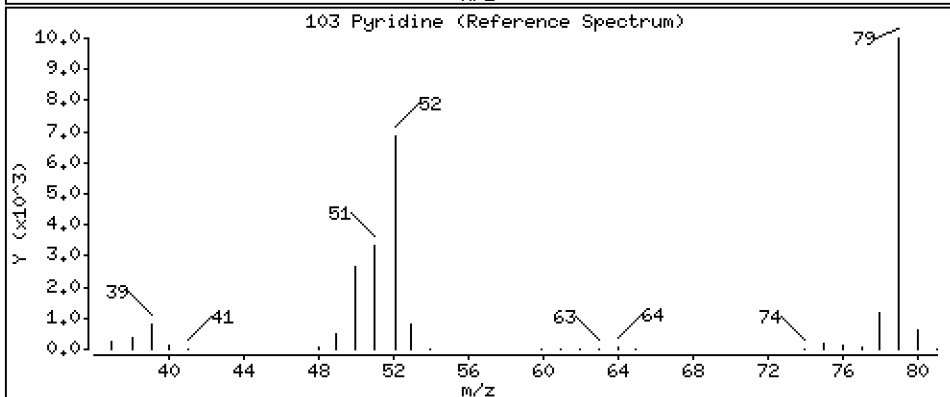
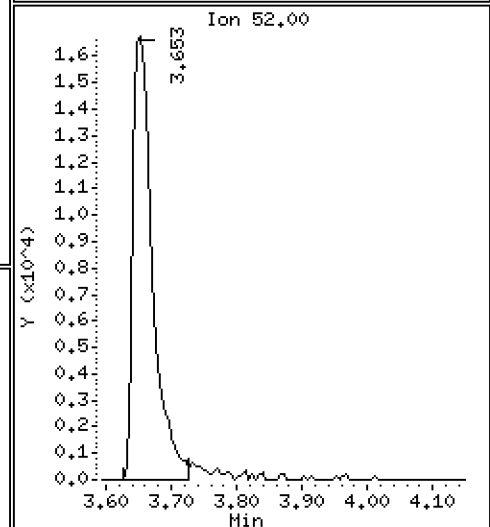
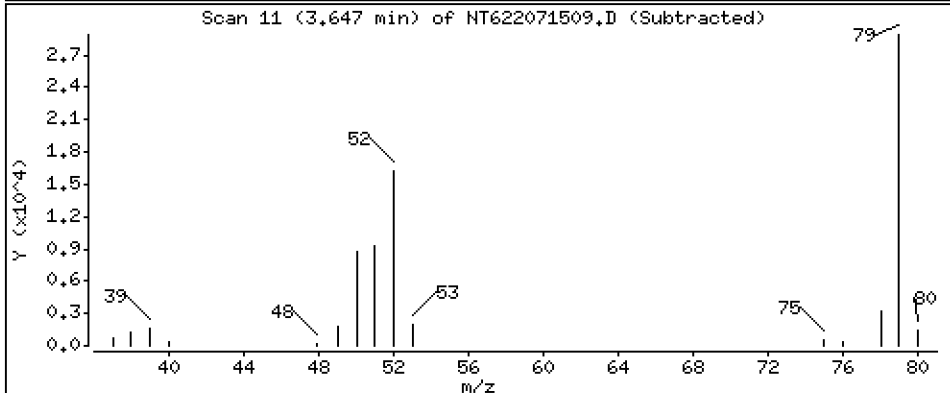
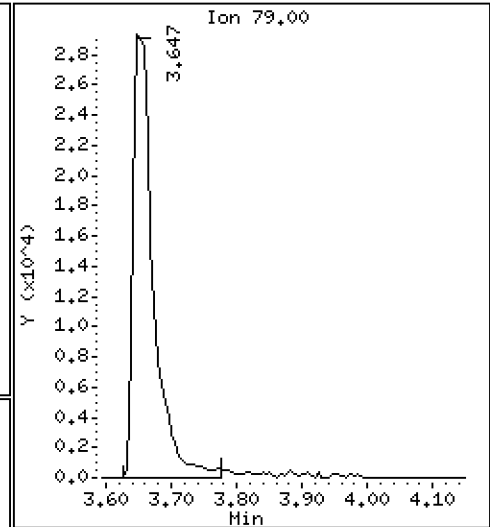
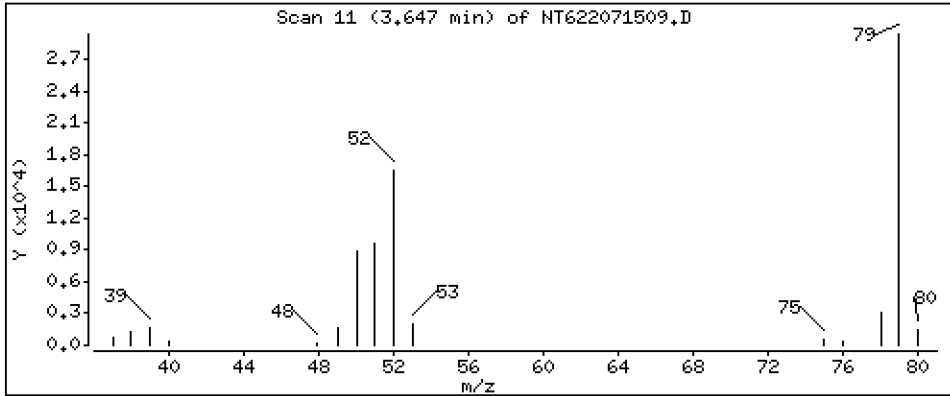
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

103 Pyridine

Concentration: 26.45 ug/mL



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Client ID:

Instrument: nt6.i

Sample Info: CCV220715

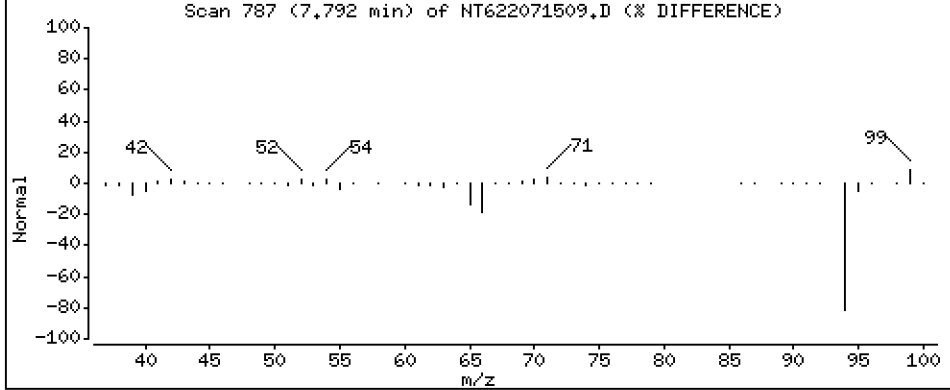
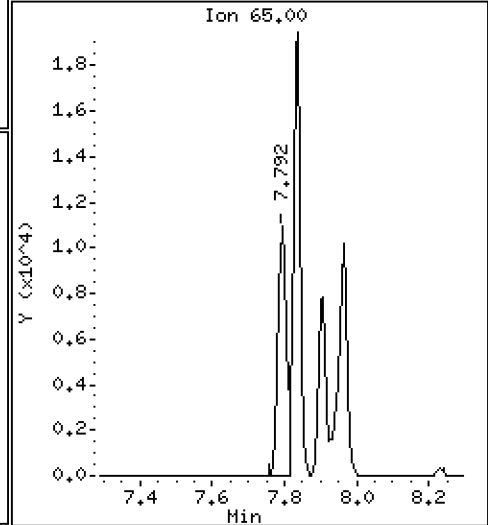
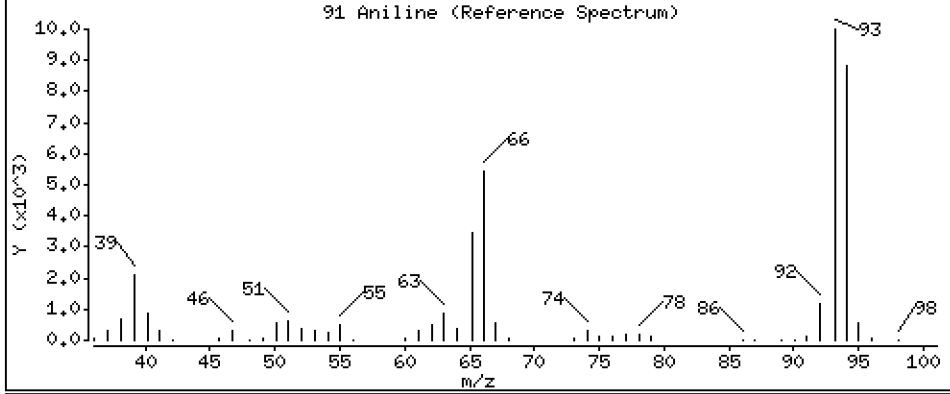
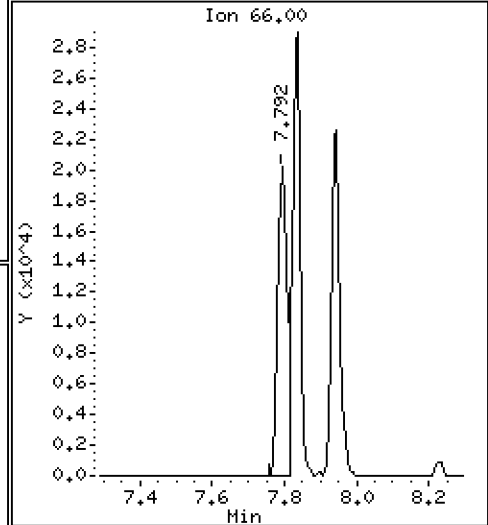
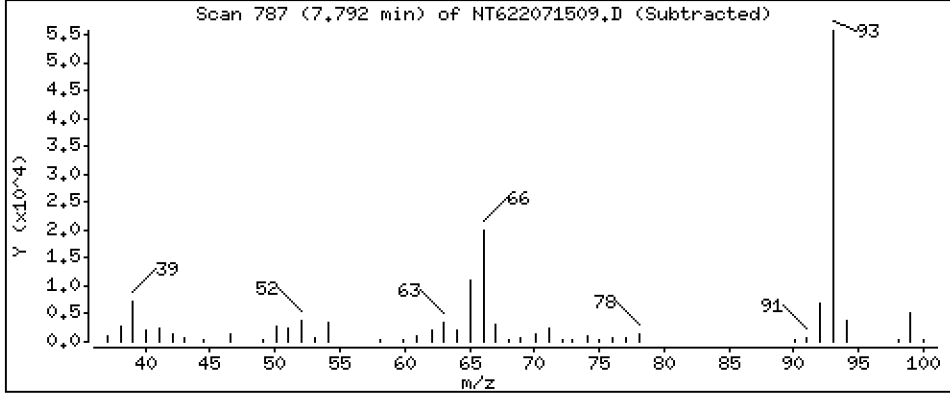
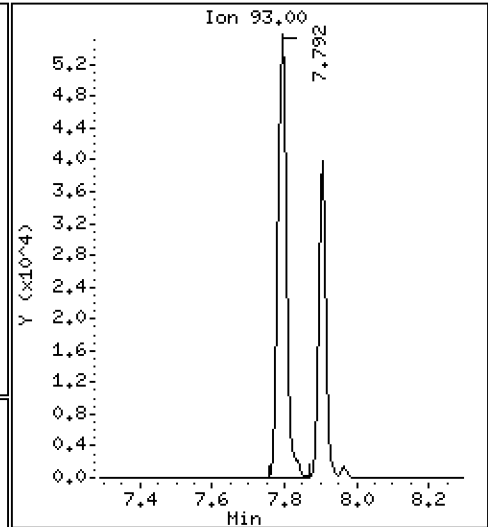
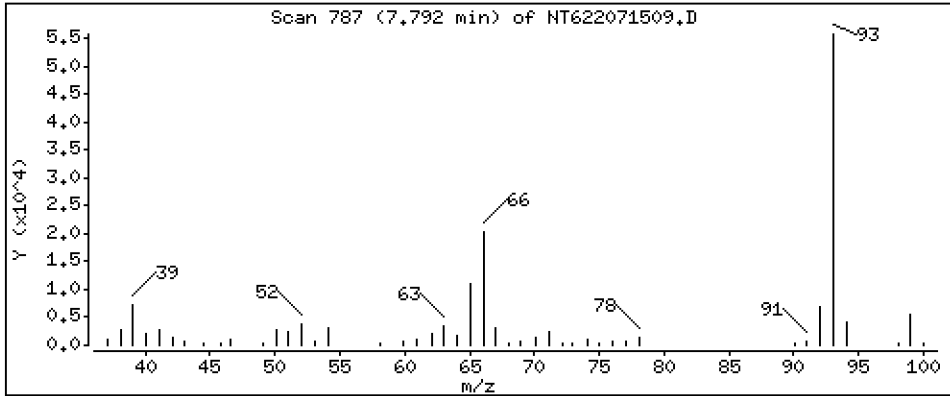
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

91 Aniline

Concentration: 20.97 ug/mL



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Client ID:

Instrument: nt6.i

Sample Info: CCV220715

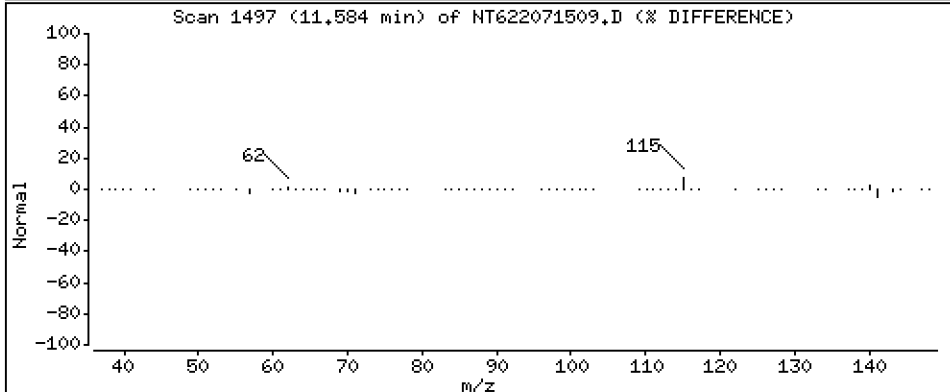
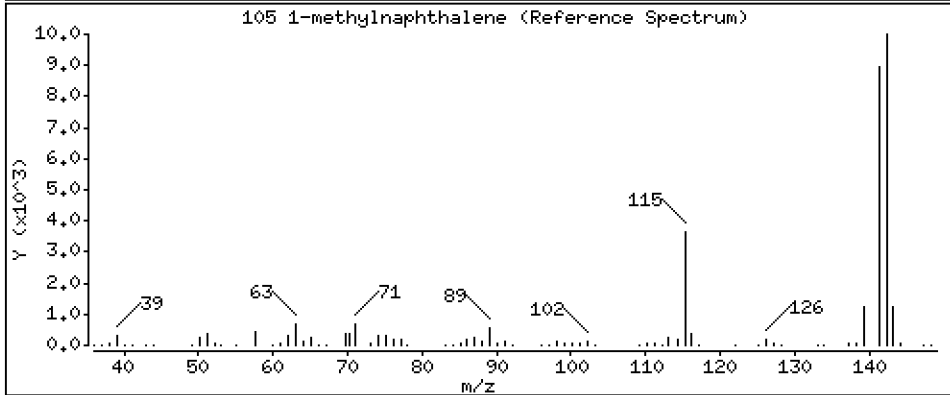
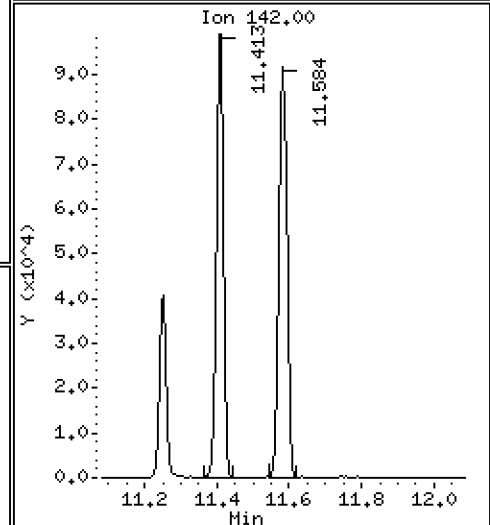
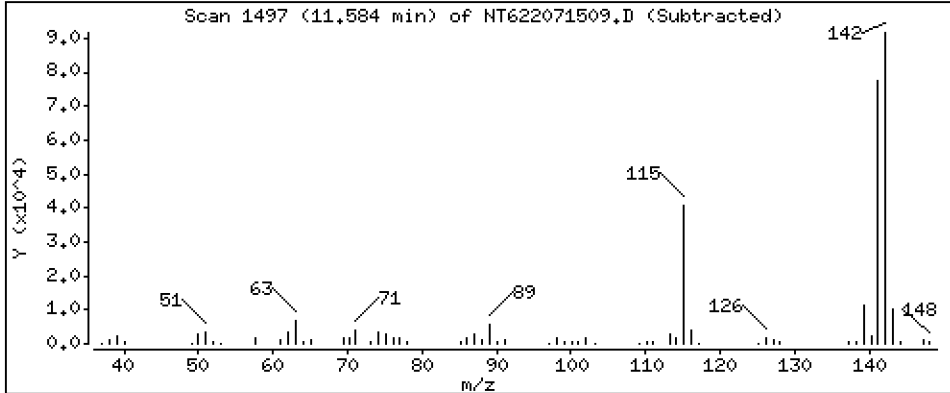
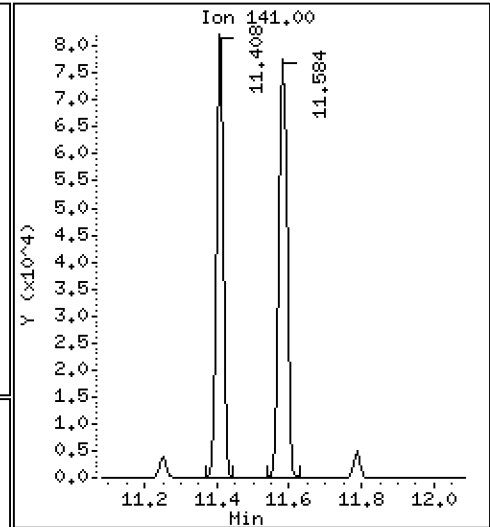
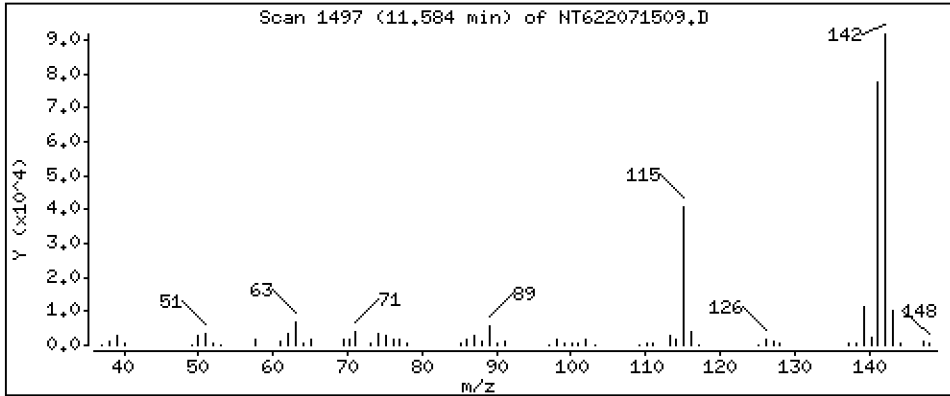
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

105 1-methylnaphthalene

Concentration: 25.65 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

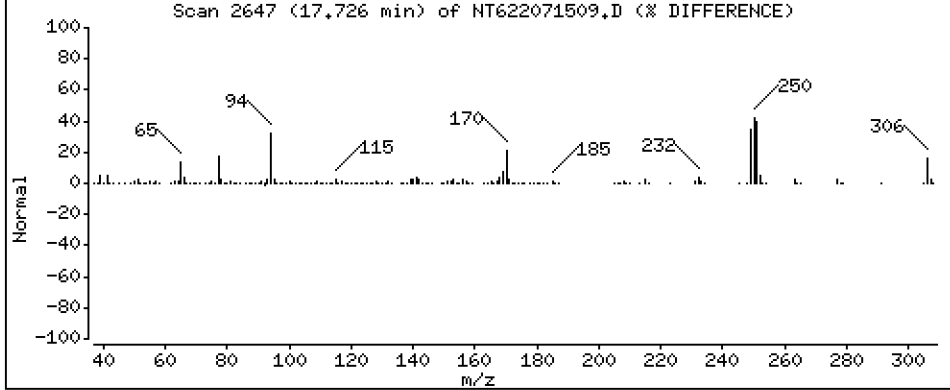
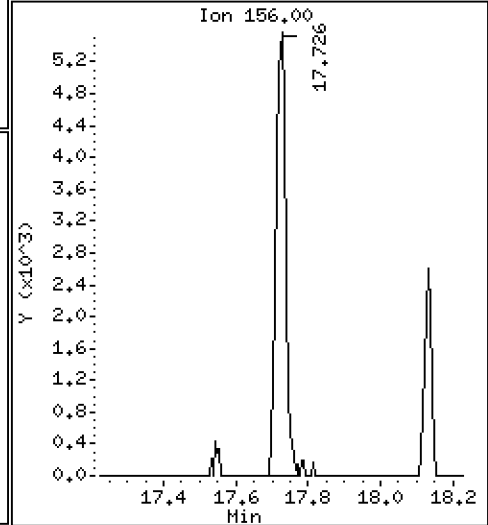
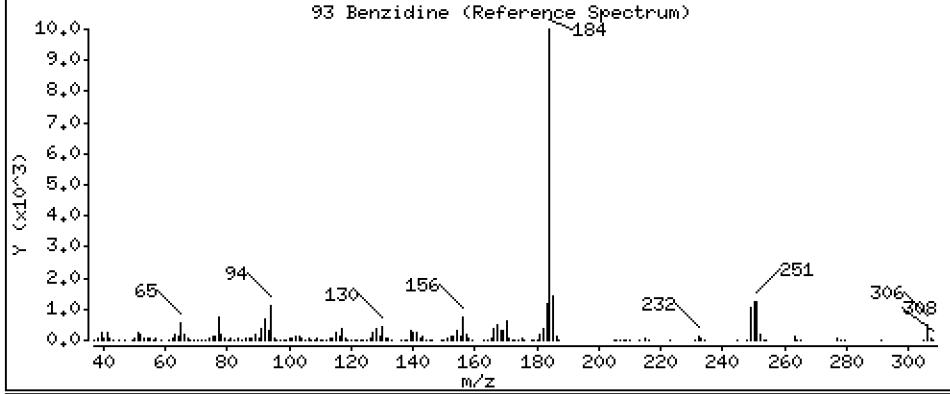
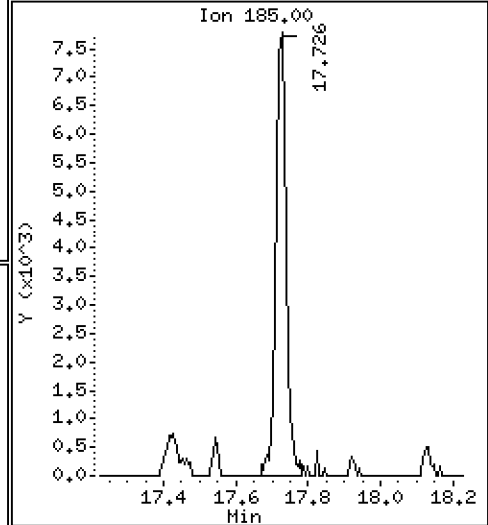
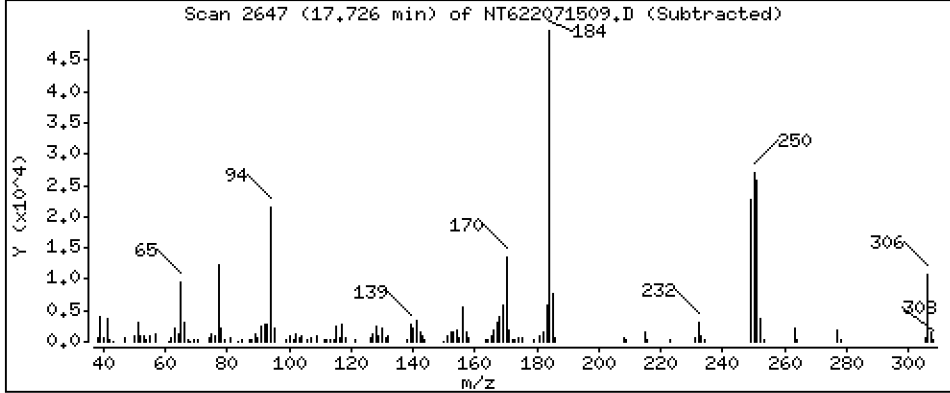
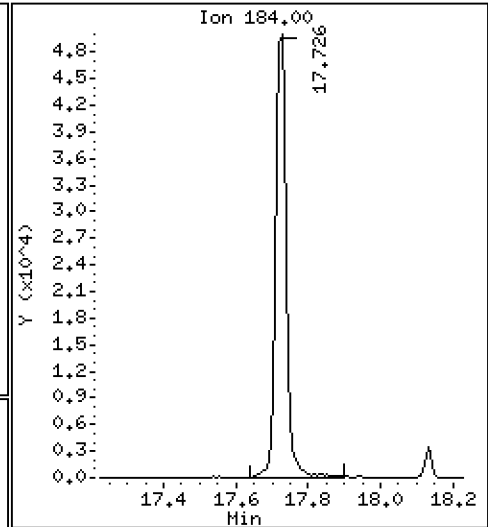
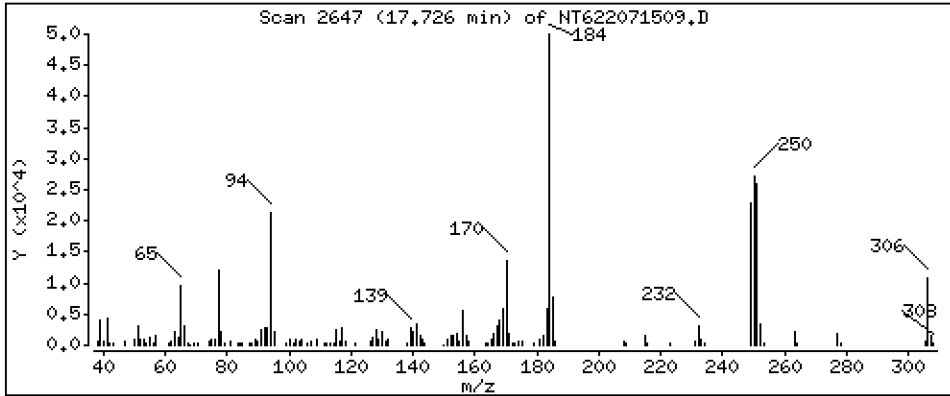
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

Concentration: 31,47 ug/mL

93 Benzidine



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

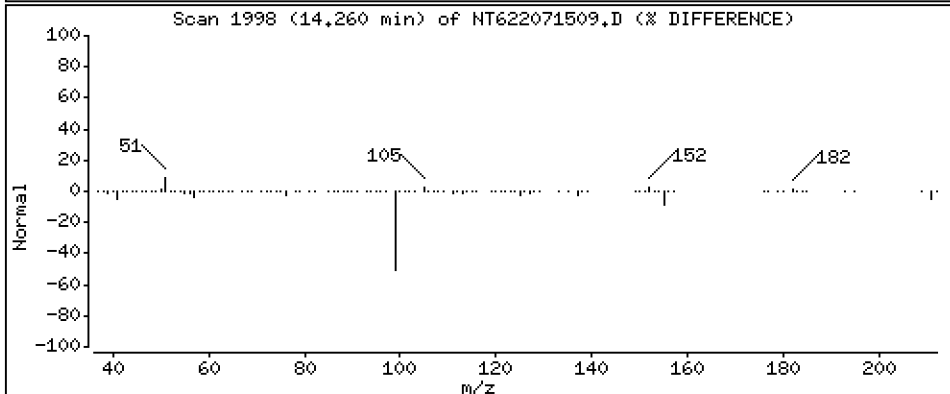
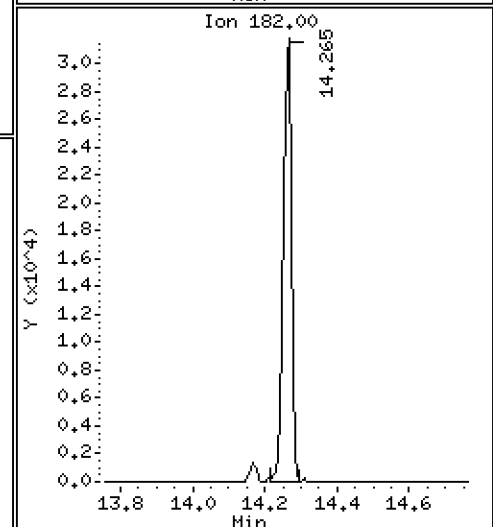
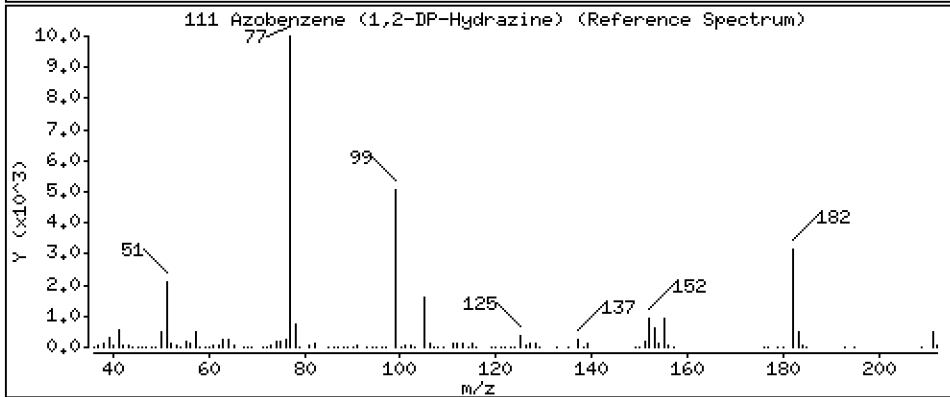
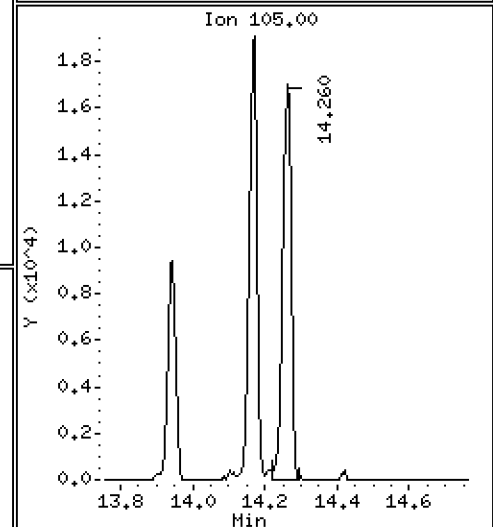
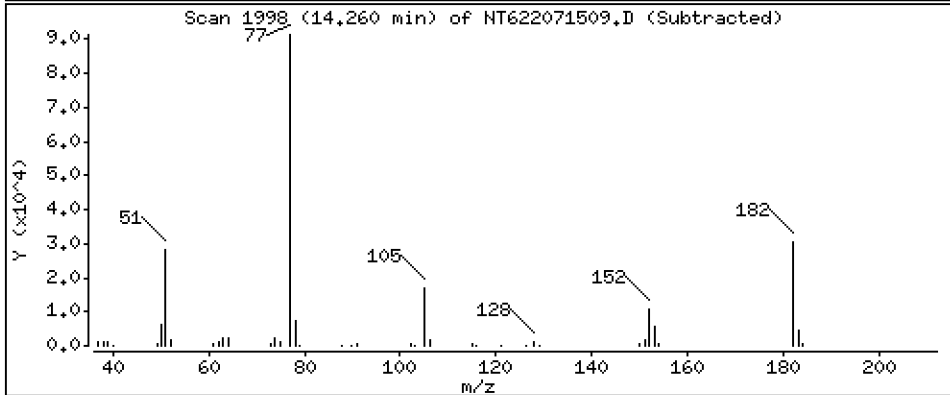
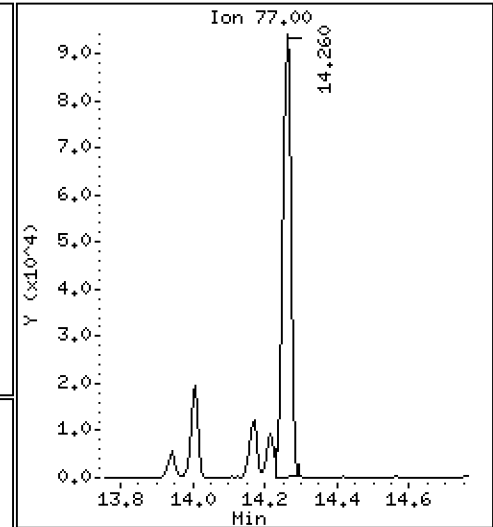
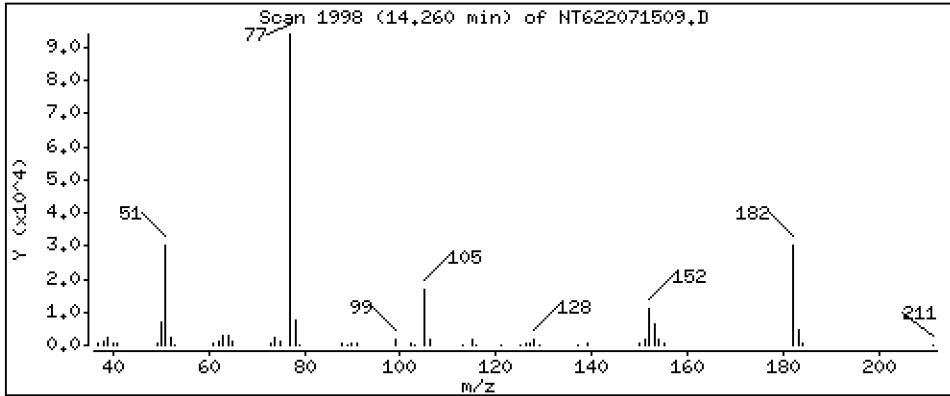
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 22.97 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

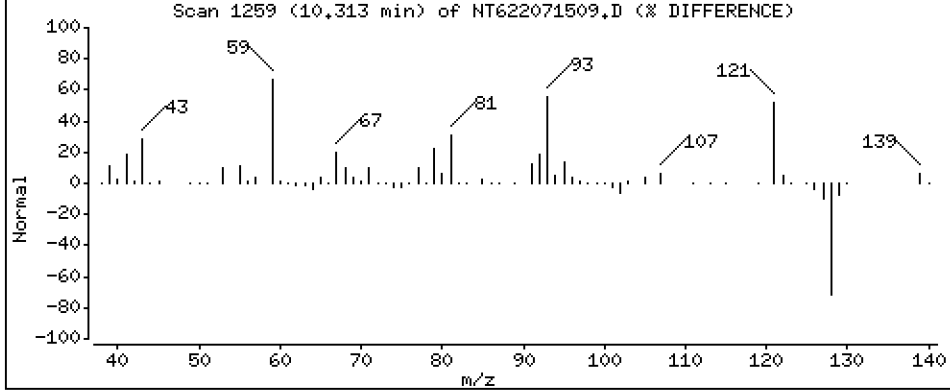
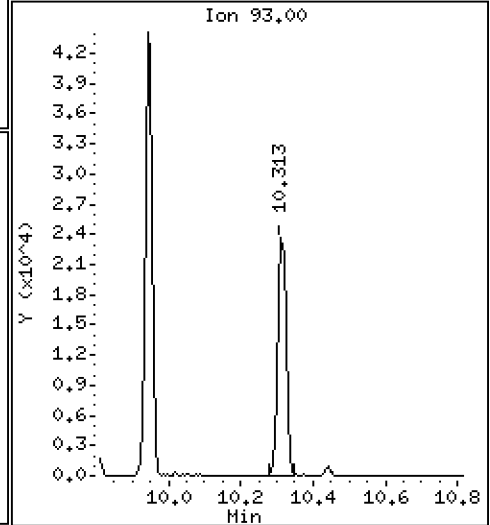
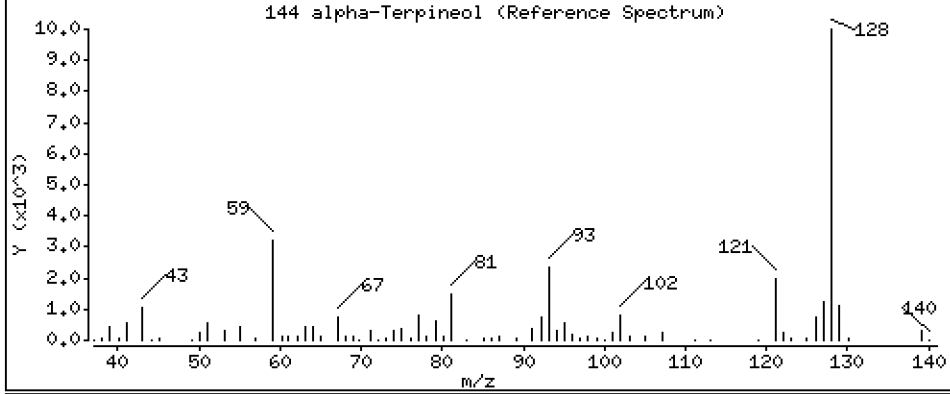
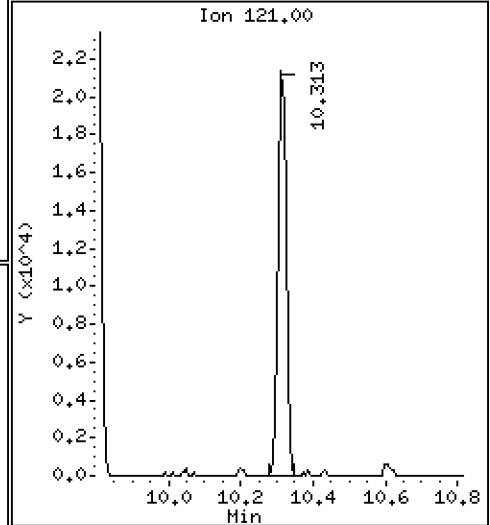
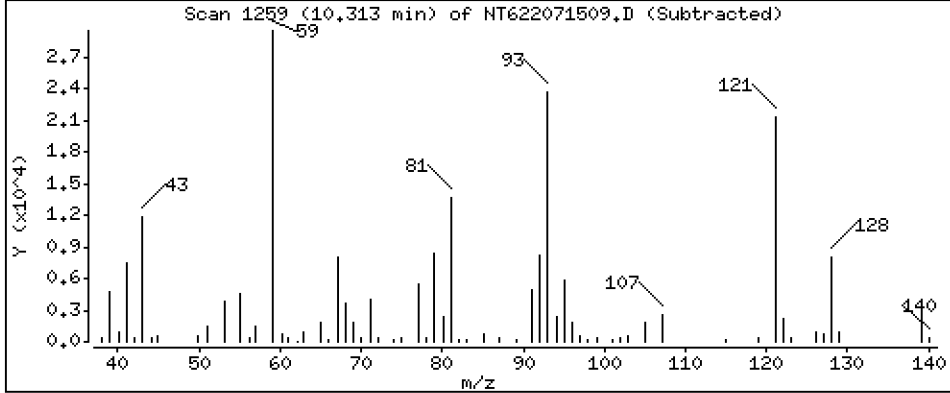
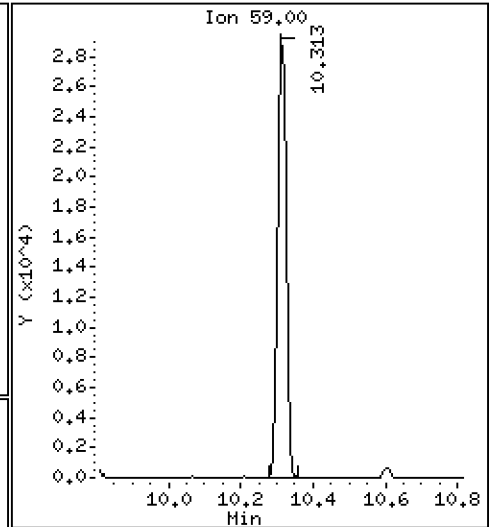
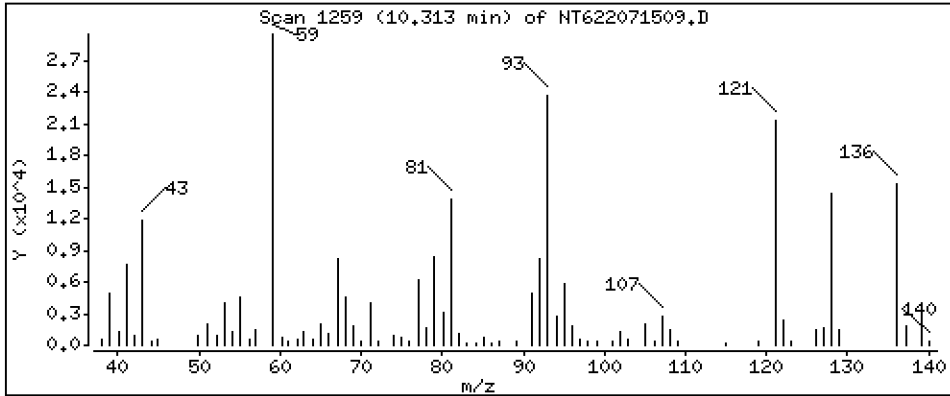
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

144 alpha-Terpineol

Concentration: 26.04 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

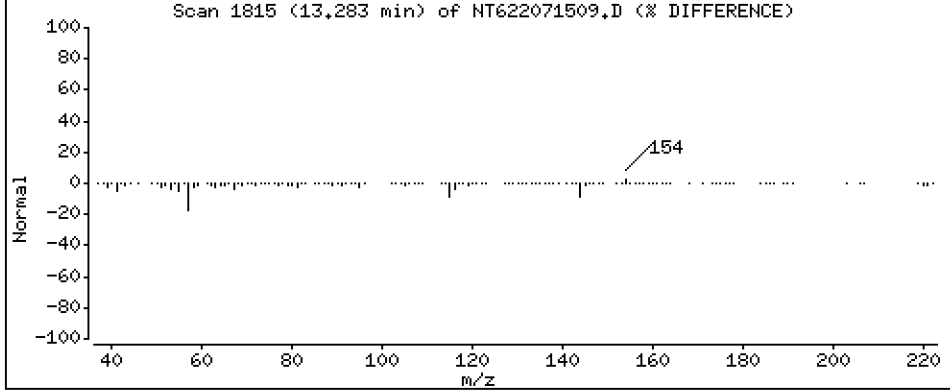
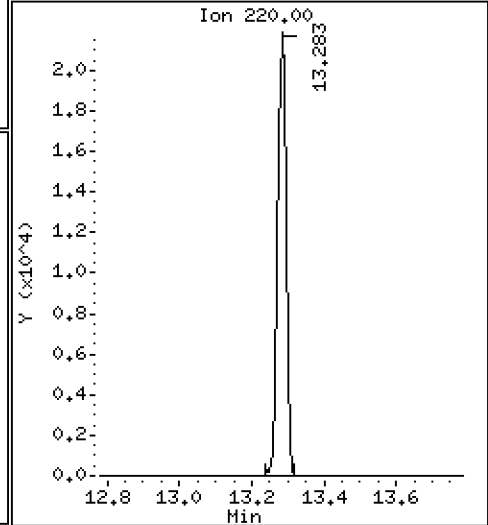
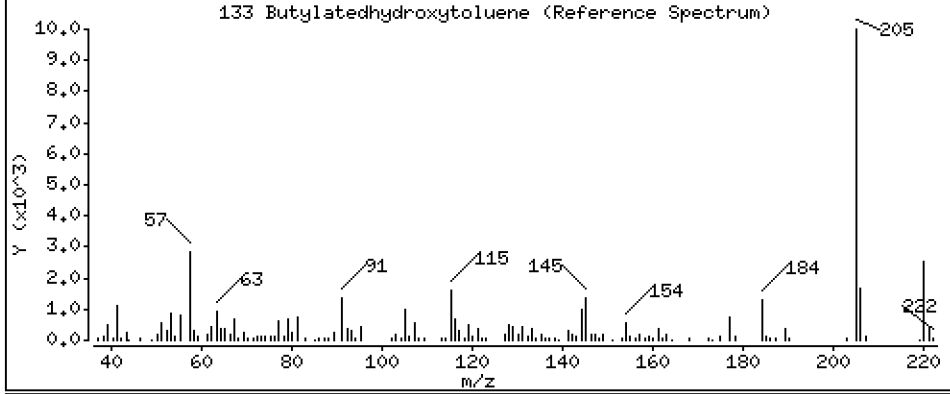
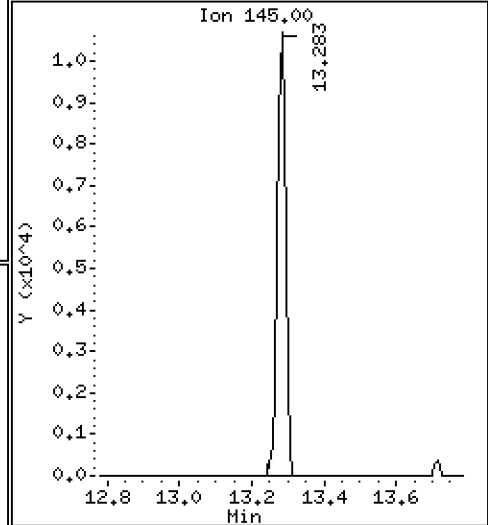
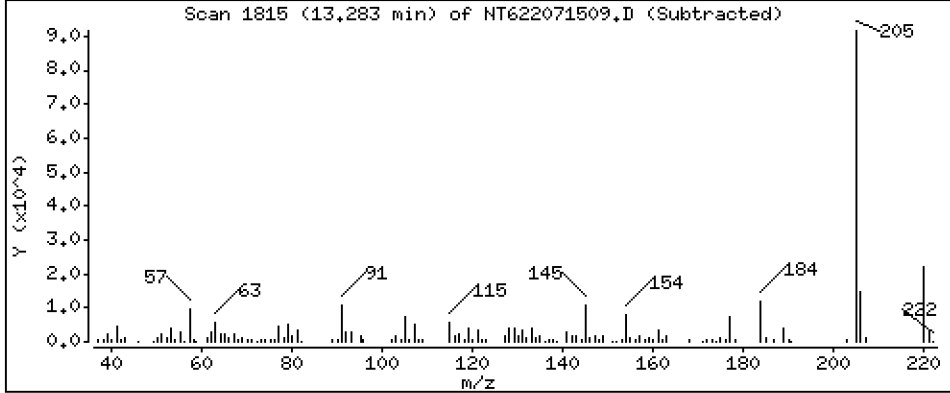
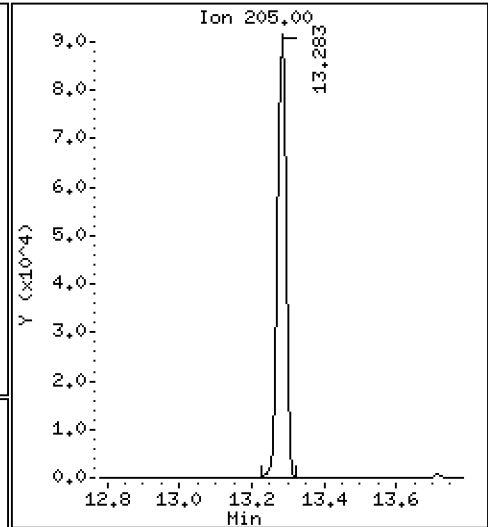
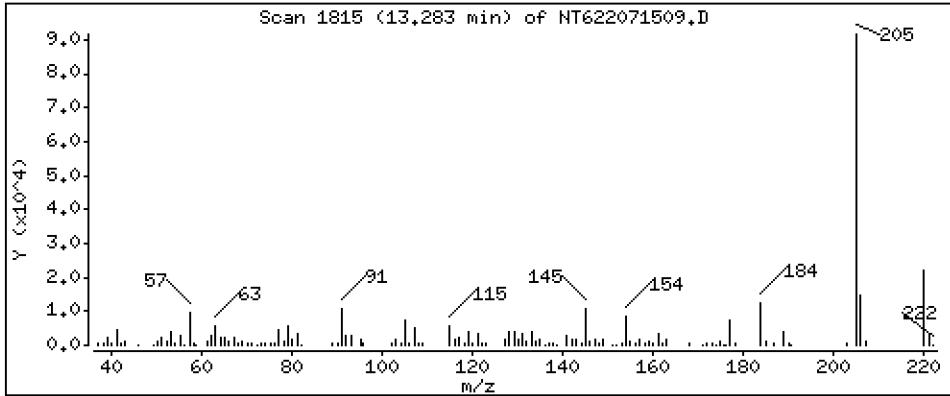
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

133 Butylatedhydroxytoluene

Concentration: 20,63 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

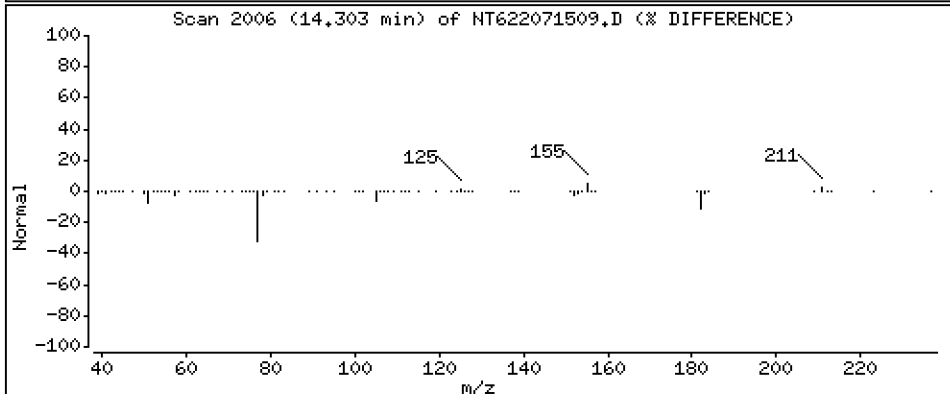
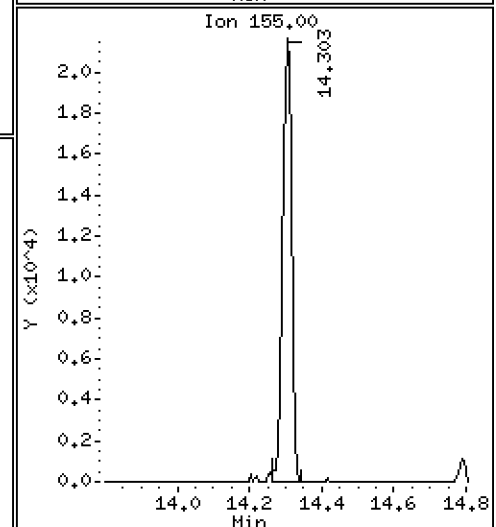
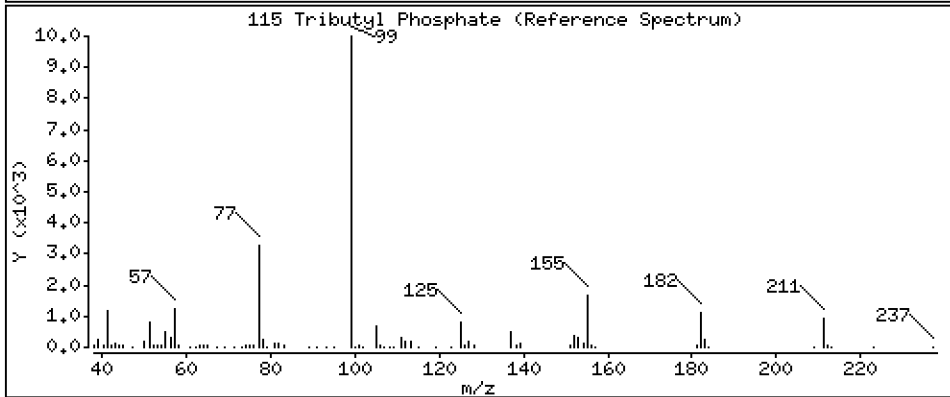
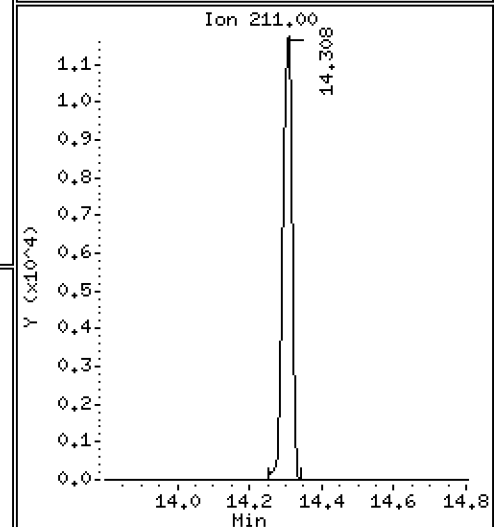
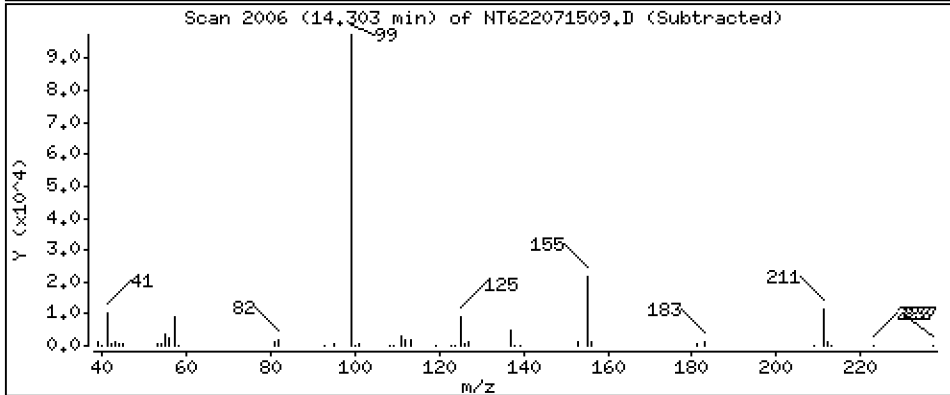
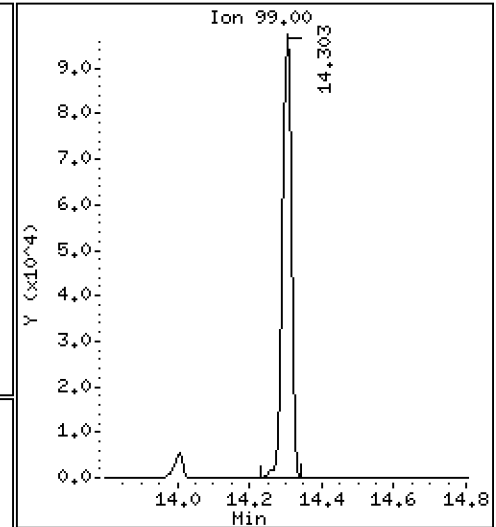
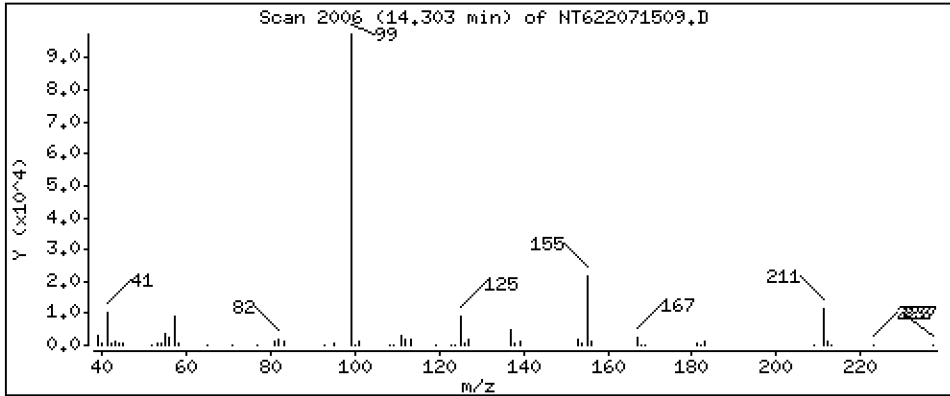
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

115 Tributyl Phosphate

Concentration: 23.51 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

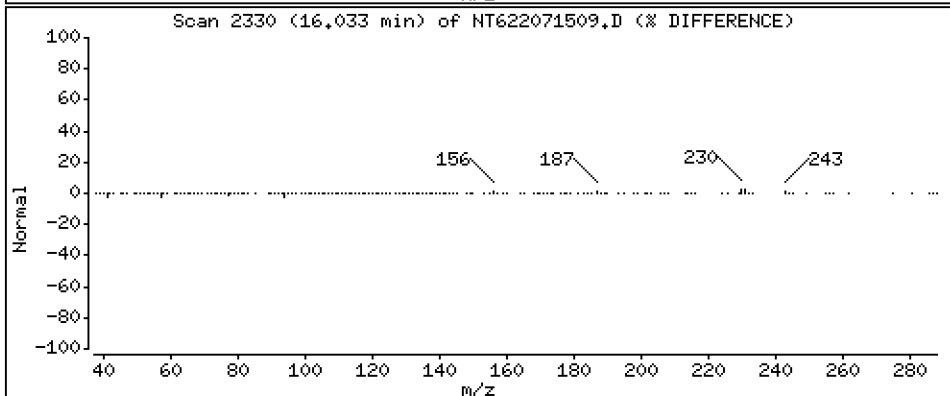
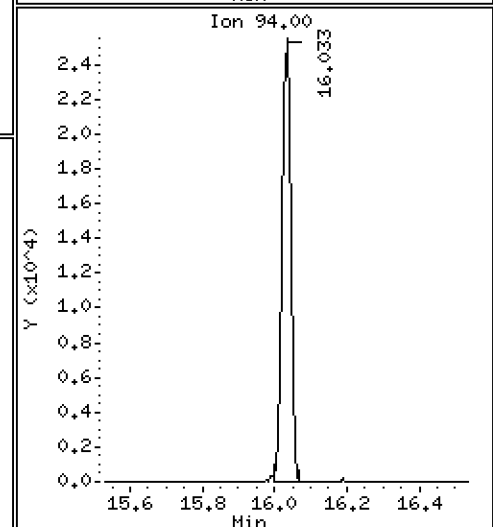
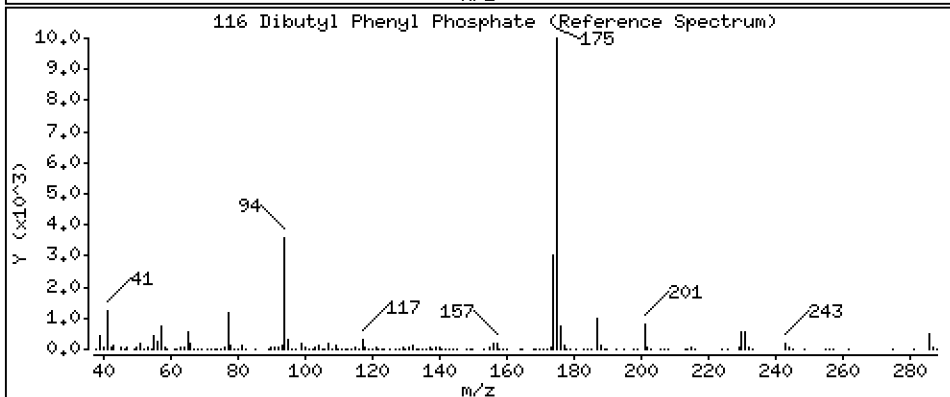
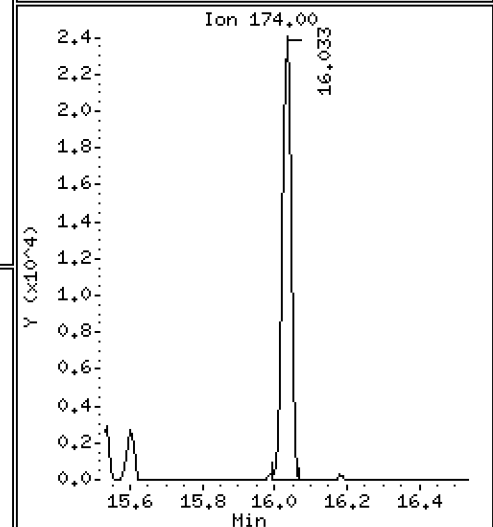
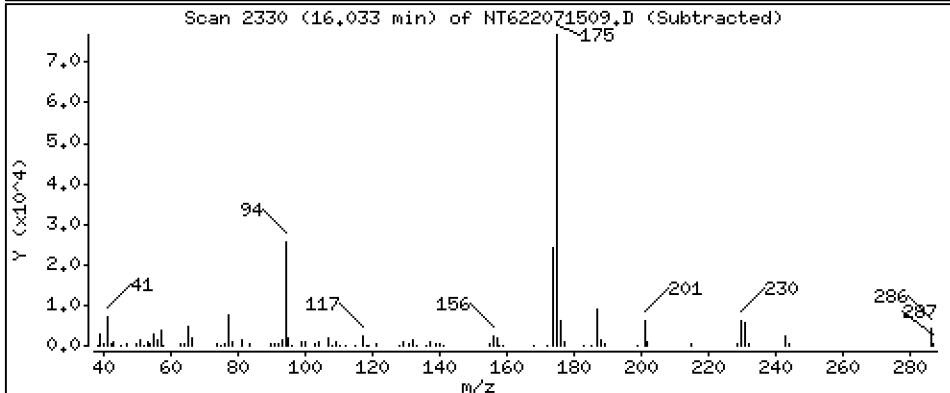
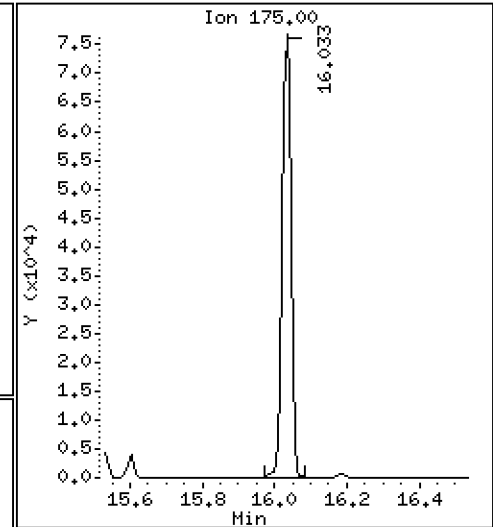
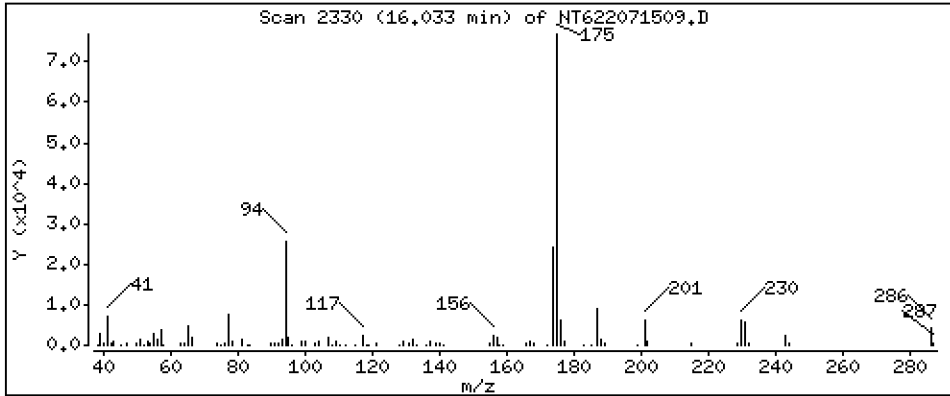
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

116 Dibutyl Phenyl Phosphate

Concentration: 24.46 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

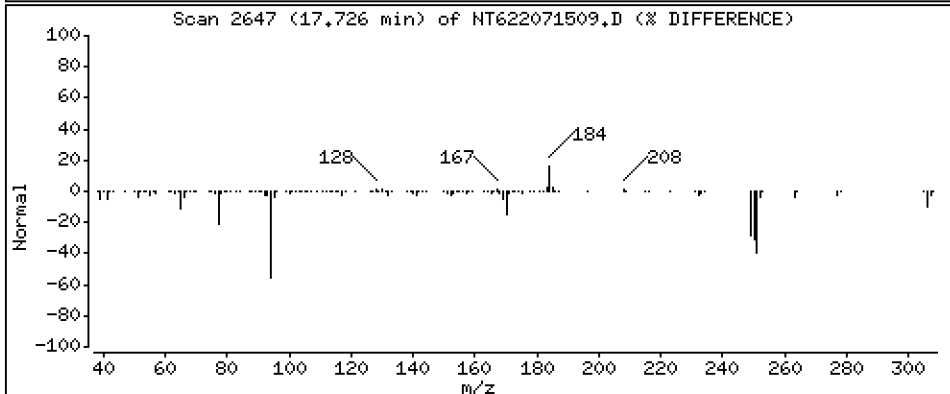
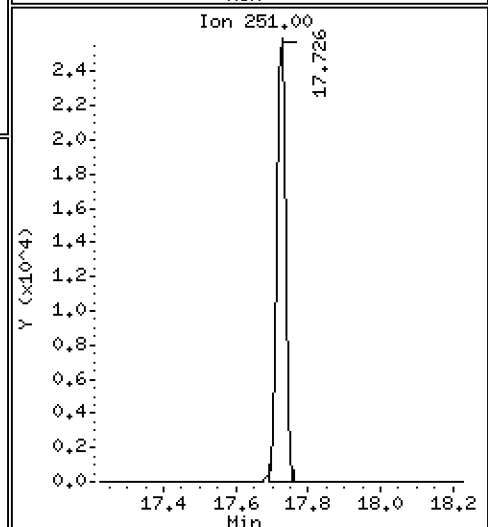
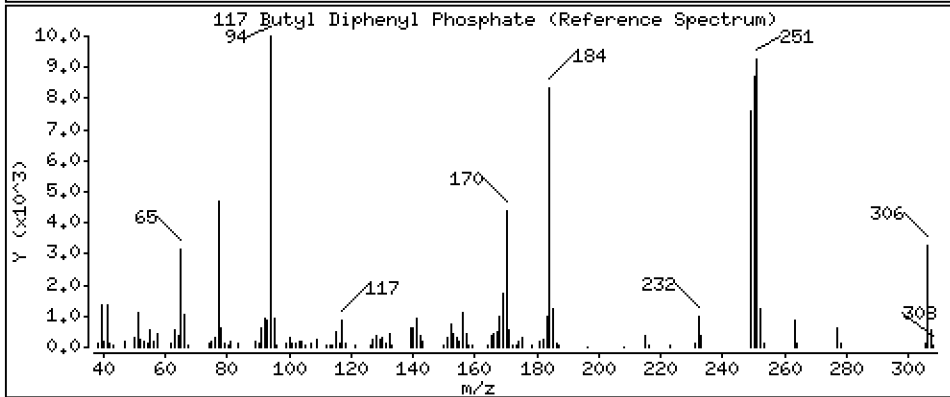
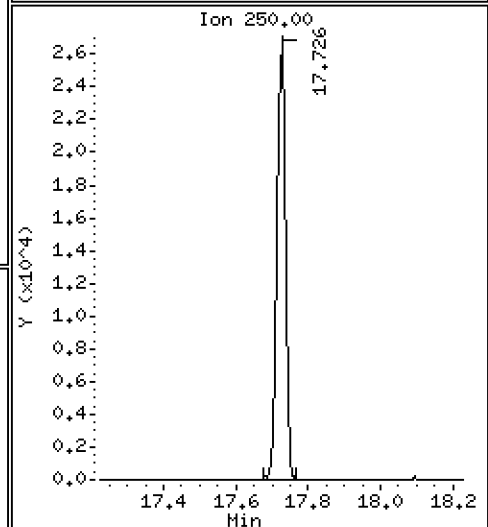
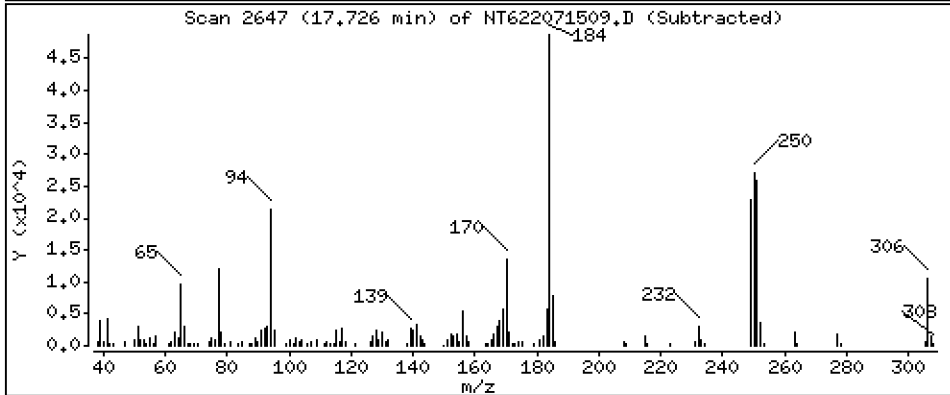
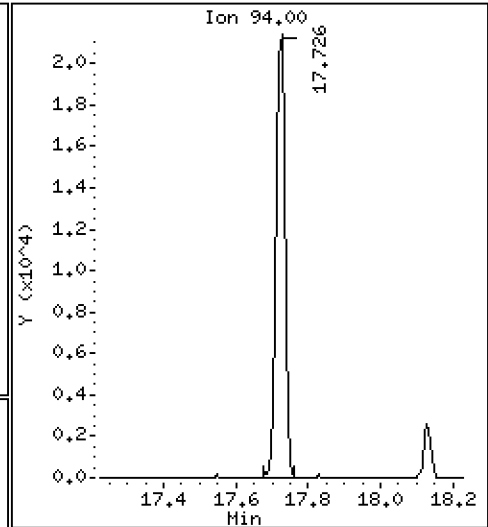
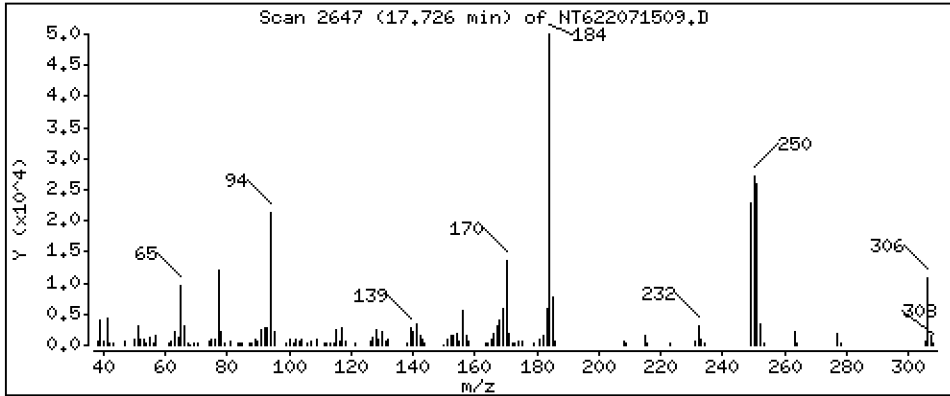
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,32

117 Butyl Diphenyl Phosphate

Concentration: 22,48 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

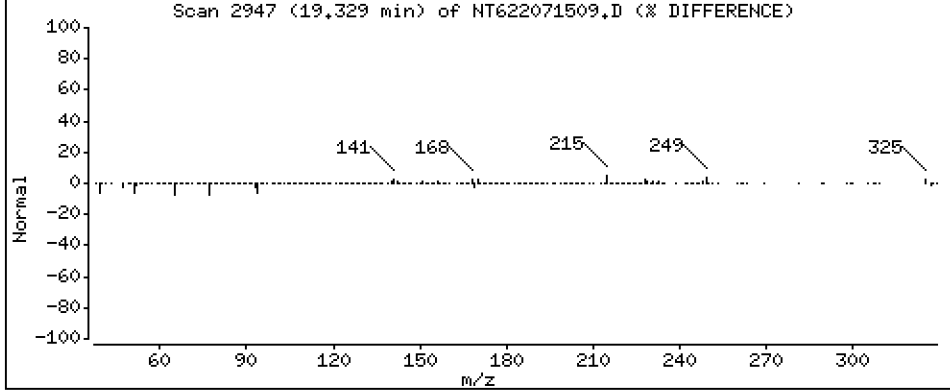
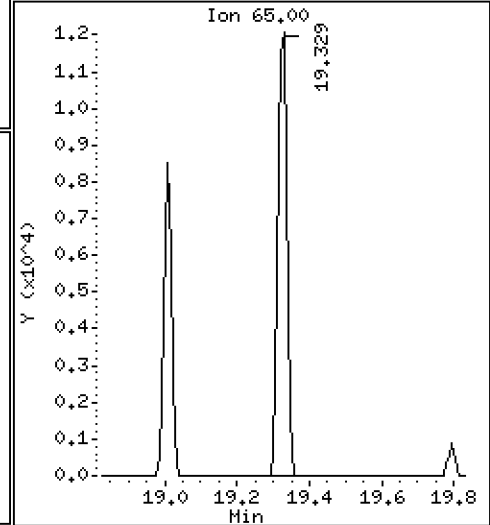
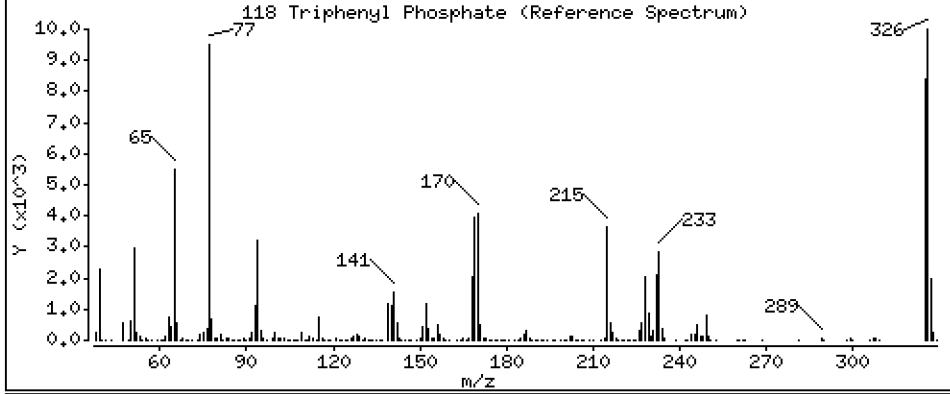
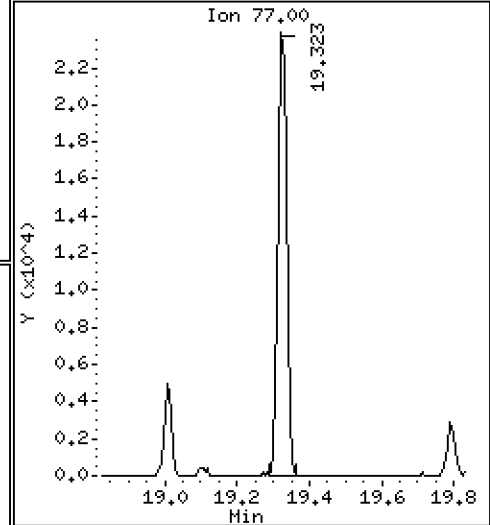
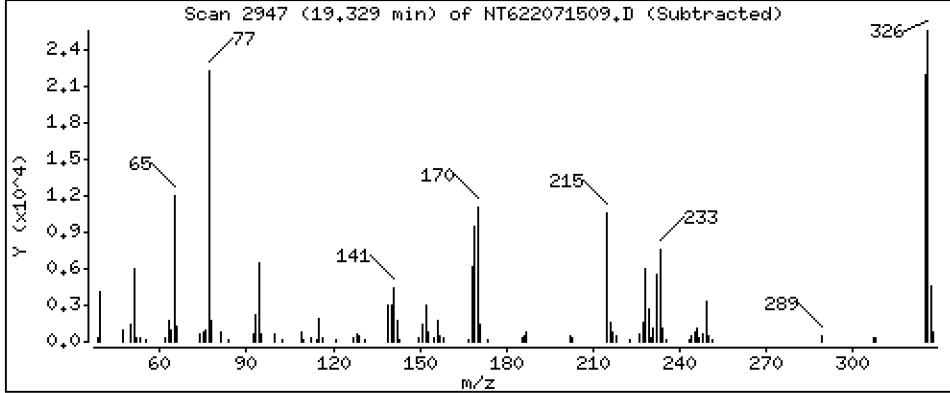
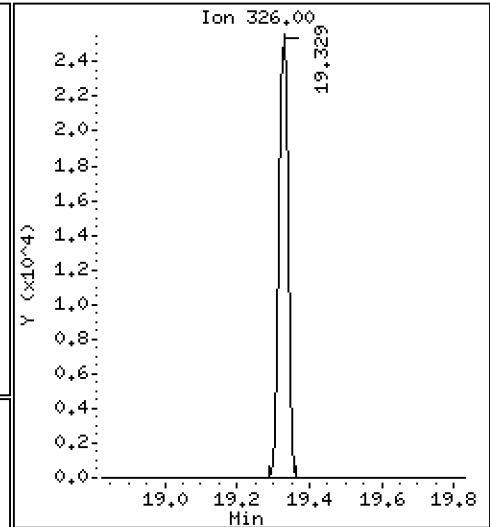
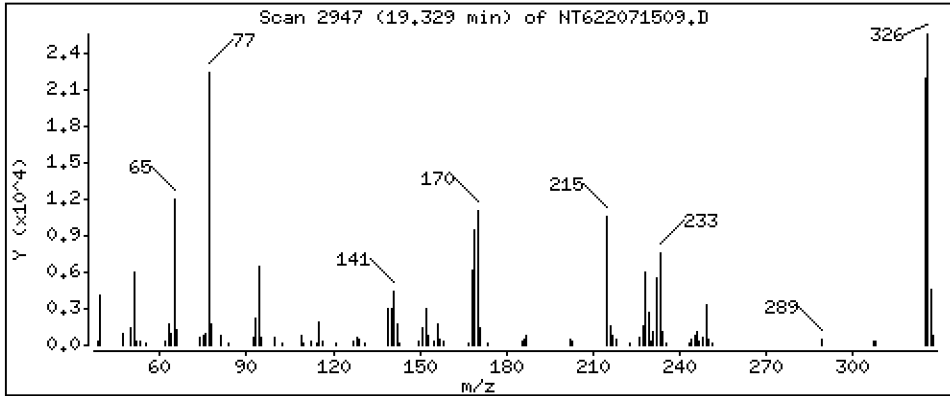
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

118 Triphenyl Phosphate

Concentration: 22.69 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

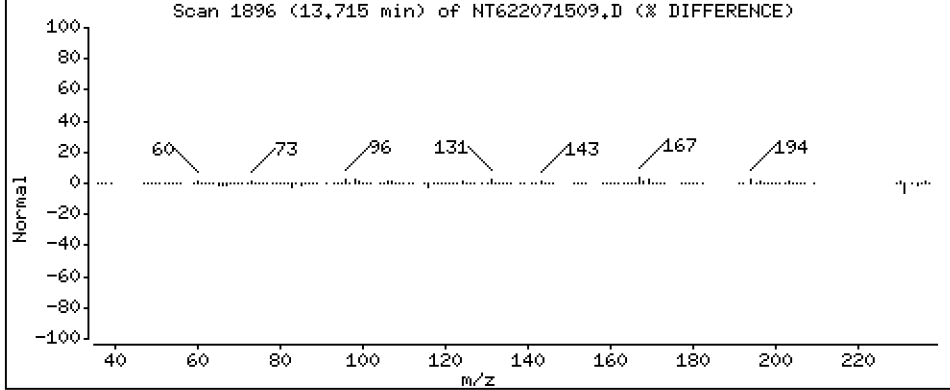
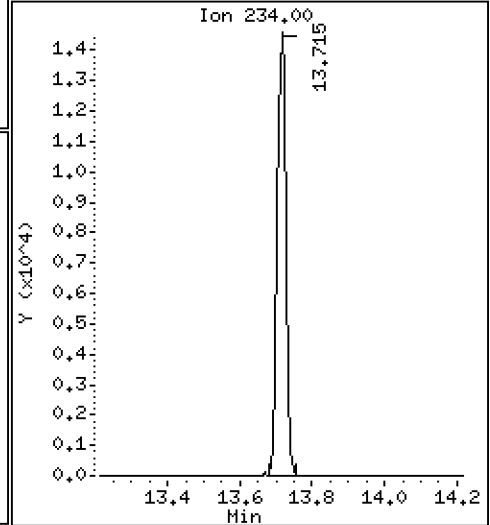
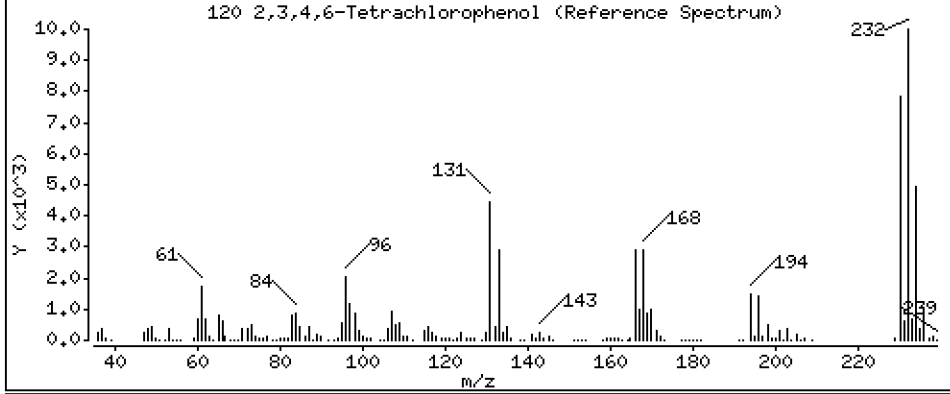
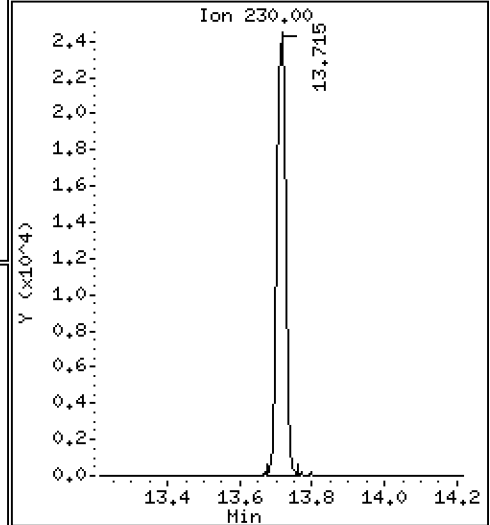
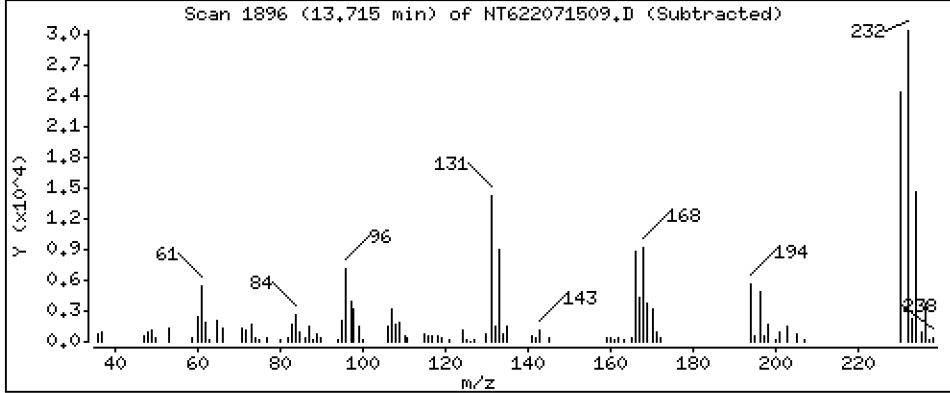
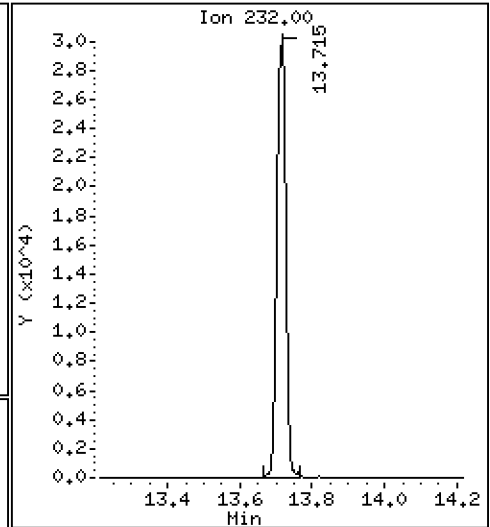
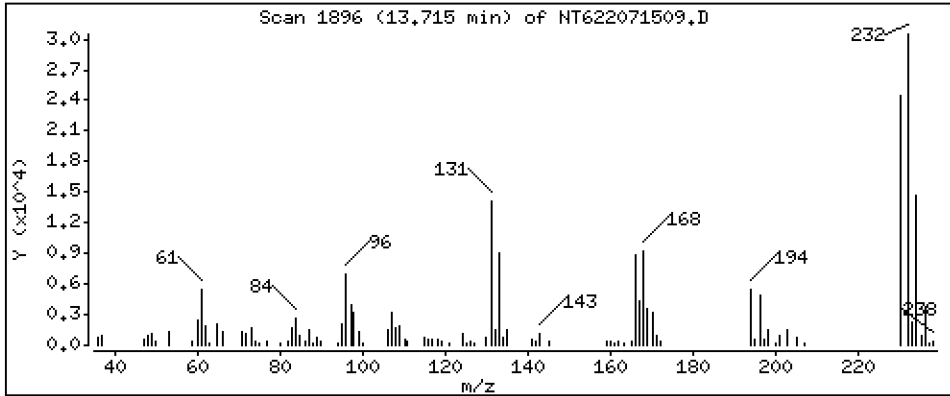
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

120 2,3,4,6-Tetrachlorophenol

Concentration: 24.47 ug/mL



Date : 15-JUL-2022 17:58

Client ID:

Instrument: nt6.i

Sample Info: CCV220715

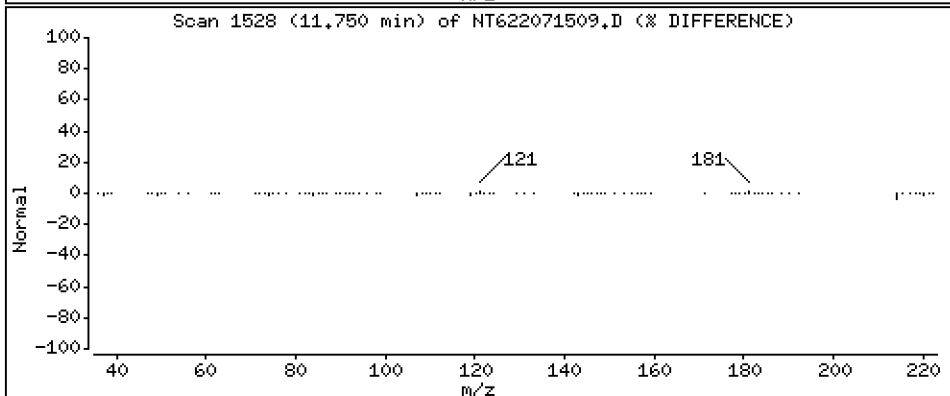
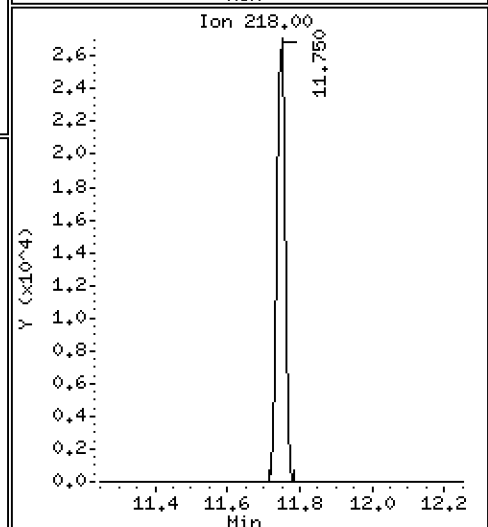
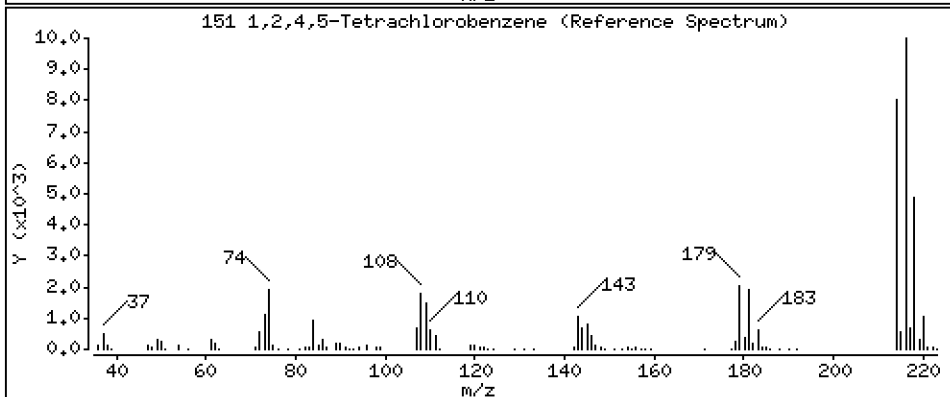
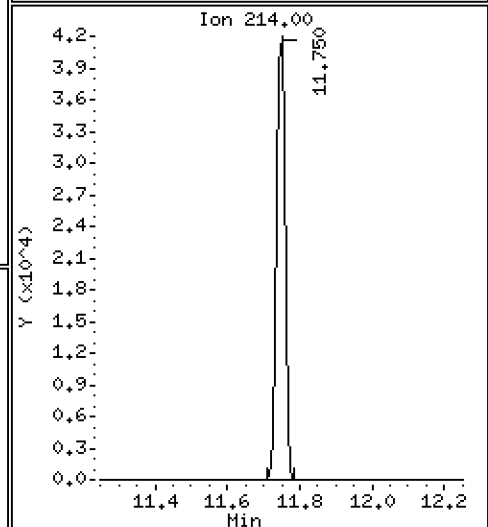
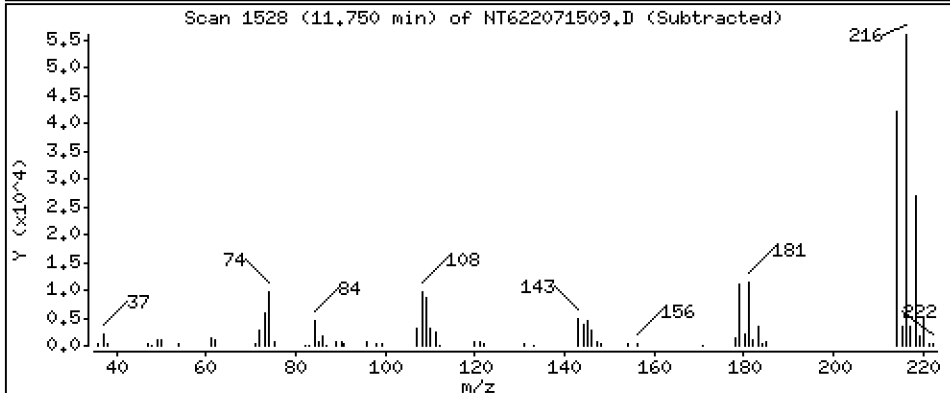
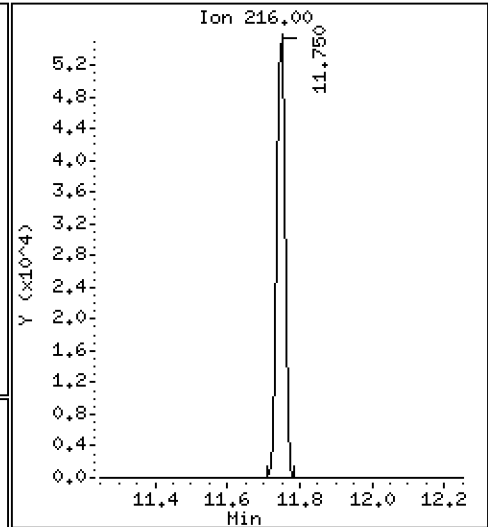
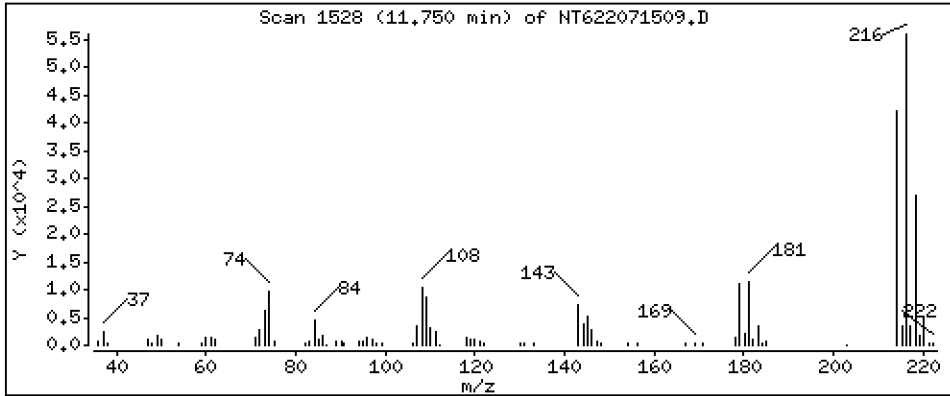
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.32

151 1,2,4,5-Tetrachlorobenzene

Concentration: 23,12 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt6.i\20220715.b\NT622071509.D
 Lab Smp Id: SKG0144-CCV1
 Inj Date : 15-JUL-2022 17:58
 Operator : JZ Inst ID: nt6.i
 Smp Info : CCV220715
 Misc Info : 22-
 Comment : lul Injection
 Method : \\target\share\chem3\nt6.i\20220715.b\SW84620220516.m
 Meth Date : 15-Jul-2022 17:26 jianqing Quant Type: ISTD
 Cal Date : 16-MAY-2022 18:52 Cal File: NT622051604.D
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICALA.sub
 Target Version: 4.14
 Processing Host: JIANQING-202105

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.301	6.297	(0.766)	115920	41.6055	41.61
\$ 2 Phenol-d5	99		7.813	7.813	(0.949)	132337	41.5216	41.52
3 Phenol	94		7.834	7.835	(0.952)	83493	22.5386	22.54
\$ 5 2-Chlorophenol-d4	132		7.941	7.942	(0.965)	123031	42.7086	42.71
4 Bis(2-Chloroethyl)ether	93		7.904	7.899	(0.960)	54153	24.2249	24.22
6 2-Chlorophenol	128		7.962	7.963	(0.968)	72406	23.9386	23.94
7 1,3-Dichlorobenzene	146		8.165	8.166	(0.992)	77042	24.5159	24.52
* 8 1,4-Dichlorobenzene-d4	152		8.229	8.230	(1.000)	51548	20.0000	
9 1,4-Dichlorobenzene	146		8.256	8.257	(1.003)	75697	24.6934	24.69
\$ 10 1,2-Dichlorobenzene-d4	152		8.529	8.524	(1.036)	55575	26.9570	26.96
12 1,2-Dichlorobenzene	146		8.545	8.545	(1.038)	71305	24.4973	24.50
11 Benzyl alcohol	108		8.513	8.513	(1.034)	44449	25.6906	25.69
14 2,2'-oxybis(1-Chloropropane)	45		8.758	8.759	(1.064)	42002	24.4737	24.47
13 2-Methylphenol	108		8.748	8.748	(1.063)	61900	24.6710	24.67
17 Hexachloroethane	117		9.031	9.031	(1.097)	30777	24.8955	24.90
16 N-Nitroso-di-n-propylamine	70		8.977	8.978	(1.091)	43885	26.1856	26.19
15 4-Methylphenol	108		8.977	8.978	(1.091)	66713	24.9279	24.93
\$ 18 Nitrobenzene-d5	82		9.159	9.154	(0.892)	80696	29.2514	29.25
19 Nitrobenzene	77		9.186	9.186	(0.895)	65235	24.9010	24.90
20 Isophorone	82		9.559	9.560	(0.931)	86763	26.1237	26.12
21 2-Nitrophenol	139		9.698	9.699	(0.945)	39186	24.1743	24.17
22 2,4-Dimethylphenol	107		9.805	9.806	(0.955)	77152	25.3153	25.32
23 Bis(2-Chloroethoxy)methane	93		9.944	9.944	(0.969)	57273	24.1588	24.16
24 Benzoic acid	105		10.072	10.057	(0.981)	133108	68.4353	68.44
25 2,4-Dichlorophenol	162		10.083	10.083	(0.982)	62028	24.9785	24.98
26 1,2,4-Trichlorobenzene	180		10.206	10.206	(0.994)	70608	24.9540	24.95
* 27 Naphthalene-d8	136		10.264	10.265	(1.000)	179652	20.0000	
28 Naphthalene	128		10.296	10.297	(1.003)	186492	24.6976	24.70
29 4-Chloroaniline	127		10.441	10.441	(1.017)	72375	23.3207	23.32
30 Hexachlorobutadiene	225		10.606	10.607	(1.033)	47393	25.9603	25.96
31 4-Chloro-3-methylphenol	107		11.253	11.253	(1.096)	66023	26.3978	26.40
32 2-Methylnaphthalene	141		11.407	11.413	(1.111)	109334	25.3569	25.36
33 Hexachlorocyclopentadiene	237		11.787	11.787	(0.899)	48199	22.7160	22.72

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196	11.925	11.926	(0.909)	52883	24.1406	24.14
35 2,4,5-Trichlorophenol	196	11.990	11.990	(0.914)	54274	23.2661	23.27
\$ 36 2-Fluorobiphenyl	172	12.054	12.049	(0.919)	188813	26.4582	26.46
37 2-Chloronaphthalene	162	12.187	12.188	(0.929)	128601	22.6358	22.64
38 2-Nitroaniline	65	12.428	12.428	(0.947)	34061	23.7164	23.72
39 Dimethylphthalate	163	12.796	12.791	(0.976)	153008	24.6100	24.61
40 Acenaphthylene	152	12.866	12.866	(0.981)	213680	23.1968	23.20
41 2,6-Dinitrotoluene	165	12.892	12.887	(0.983)	34177	24.1145	24.11
* 42 Acenaphthene-d10	164	13.117	13.117	(1.000)	117308	20.0000	
43 3-Nitroaniline	138	13.106	13.106	(0.999)	30980	22.3841	22.38
44 Acenaphthene	153	13.170	13.170	(1.004)	127106	23.2730	23.27
45 2,4-Dinitrophenol	184	13.271	13.267	(1.012)	52445	59.8467	59.85
46 Dibenzofuran	168	13.432	13.427	(1.024)	189254	23.9779	23.98
47 4-Nitrophenol	109	13.426	13.427	(1.024)	27765	27.7567	27.76
48 2,4-Dinitrotoluene	165	13.517	13.518	(1.031)	45169	24.6943	24.69
50 Diethylphthalate	149	13.944	13.945	(1.063)	149221	24.8473	24.85
49 Fluorene	166	13.987	13.988	(1.066)	153158	24.2576	24.26
51 4-Chlorophenyl-phenylether	204	14.008	14.009	(1.068)	84616	23.8819	23.88
52 4-Nitroaniline	138	14.105	14.105	(1.075)	27845	22.2470	22.25
53 4,6-Dinitro-2-methylphenol	198	14.169	14.169	(0.915)	79262	67.6066	67.61
54 N-Nitrosodiphenylamine	169	14.217	14.217	(0.918)	107701	23.2057	23.21
\$ 55 2,4,6-Tribromophenol	330	14.414	14.415	(1.099)	43688	43.7692	43.77
56 4-Bromophenyl-phenylether	248	14.788	14.789	(0.954)	49304	24.5132	24.51
57 Hexachlorobenzene	284	15.013	15.008	(0.969)	52596	24.0284	24.03
58 Pentachlorophenol	266	15.312	15.312	(0.988)	32979	22.5535	22.55
* 59 Phenanthrene-d10	188	15.493	15.494	(1.000)	214119	20.0000	
60 Phenanthrene	178	15.531	15.531	(1.002)	205103	23.2386	23.24
61 Anthracene	178	15.605	15.601	(1.007)	202810	22.9723	22.97
62 Carbazole	167	15.889	15.889	(1.026)	165075	21.7523	21.75
63 Di-n-butylphthalate	149	16.588	16.589	(1.071)	239528	25.2054	25.21
64 Fluoranthene	202	17.470	17.470	(1.128)	250220	25.0844	25.08
65 Pyrene	202	17.827	17.823	(0.900)	249212	23.0853	23.09
\$ 66 Terphenyl-d14	244	18.132	18.132	(0.915)	207703	25.4098	25.41
67 Butylbenzylphthalate	149	19.013	19.014	(0.960)	102144	24.1685	24.17
68 Benzo(a)anthracene	228	19.782	19.783	(0.999)	222095	23.2962	23.30
* 69 Chrysene-d12	240	19.809	19.809	(1.000)	171943	20.0000	
70 3,3'-Dichlorobenzidine	252	19.793	19.793	(0.999)	70910	24.8330	24.83
71 Chrysene	228	19.852	19.852	(1.002)	202984	23.1769	23.18
72 bis(2-Ethylhexyl)phthalate	149	19.996	19.996	(0.955)	136290	24.6697	24.67
* 134 Di-n-octylphthalate-d4	153	20.931	20.931	(1.000)	238803	20.0000	
73 Di-n-octylphthalate	149	20.941	20.942	(1.000)	231286	23.2064	23.21
74 Benzo(b)fluoranthene	252	21.438	21.438	(0.976)	213861	24.1795	24.18
75 Benzo(k)fluoranthene	252	21.475	21.476	(0.978)	227556	25.6767	25.68
187 Total Benzofluoranthenes	252	21.475	21.476	(0.978)	420343	49.9411	49.94
76 Benzo(a)pyrene	252	21.892	21.892	(0.997)	198064	23.8629	23.86
* 77 Perylene-d12	264	21.967	21.973	(1.000)	179166	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	23.537	23.538	(1.071)	291960	24.0652	24.07
79 Dibenzo(a,h)anthracene	278	23.564	23.564	(1.073)	241383	23.7848	23.78
80 Benzo(g,h,i)perylene	276	23.980	23.981	(1.092)	246011	23.6421	23.64
90 N-Nitrosodimethylamine	74	3.700	3.695	(0.450)	35270	27.1149	27.11
103 Pyridine	79	3.647	3.647	(0.443)	64761	26.4515	26.45
91 Aniline	93	7.791	7.792	(0.947)	79876	20.9680	20.97
105 1-methylnaphthalene	141	11.584	11.584	(1.129)	104373	25.6468	25.65
93 Benzidine	184	17.726	17.726	(0.895)	91238	31.4735	31.47

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
111 Azobenzene (1,2-DP-Hydrazine)	77	14.260	14.260	(0.920)	125196	22.9658	22.97
144 alpha-Terpineol	59	10.312	10.313	(1.005)	40446	26.0417	26.04
133 Butylatedhydroxytoluene	205	13.282	13.283	(1.013)	128451	20.6317	20.63
115 Tributyl Phosphate	99	14.302	14.303	(0.923)	144595	23.5143	23.51
116 Dibutyl Phenyl Phosphate	175	16.033	16.033	(1.035)	112175	24.4586	24.46
117 Butyl Diphenyl Phosphate	94	17.726	17.726	(0.895)	31279	22.4822	22.48
118 Triphenyl Phosphate	326	19.328	19.329	(0.976)	38558	22.6880	22.69
120 2,3,4,6-Tetrachlorophenol	232	13.715	13.715	(1.046)	43644	24.4709	24.47
151 1,2,4,5-Tetrachlorobenzene	216	11.749	11.750	(0.896)	74436	23.1193	23.12

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt6.i Calibration Date: 15-JUL-2022
 Lab File ID: NT622071509.D Calibration Time: 10:24
 Lab Smp Id: SKG0144-CCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt6.i\20220715.b\SW84620220516.m
 Misc Info: 22-

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	52019	26010	104038	51548	-0.91
27 Naphthalene-d8	183312	91656	366624	179652	-2.00
42 Acenaphthene-d10	120091	60046	240182	117308	-2.32
59 Phenanthrene-d10	221698	110849	443396	214119	-3.42
69 Chrysene-d12	186782	93391	373564	171943	-7.94
134 Di-n-octylphthala	262753	131377	525506	238803	-9.12
77 Perylene-d12	189769	94885	379538	179166	-5.59

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.23	7.73	8.73	8.23	-0.01
27 Naphthalene-d8	10.27	9.77	10.77	10.26	-0.01
42 Acenaphthene-d10	13.12	12.62	13.62	13.12	-0.00
59 Phenanthrene-d10	15.49	14.99	15.99	15.49	-0.00
69 Chrysene-d12	19.81	19.31	20.31	19.81	-0.00
134 Di-n-octylphthala	20.93	20.43	21.43	20.93	-0.00
77 Perylene-d12	21.97	21.47	22.47	21.97	-0.03

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

REVIEW SUMMARY FOR FILE - NT622071509.D

Lab ID: SKG0144-CCV1
nt6.i, SW84620220516.m, 15-JUL-2022 17:58

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check performed

On Column LOD for nt6.i, SW84620220516.m, ICALA.sub = 0.0100

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



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKE0212

Instrument: NT6

Calibration: FE00035

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SKE0212-TUN1	NT622051601A.D	NA	05/16/22 17:11
8270 ICal	SKE0212-CAL4	NT622051601.D	NA	05/16/22 17:11
Initial Cal Blank	SKE0212-ICB1	NT622051602.D	NA	05/16/22 17:45
8270 ICal	SKE0212-CAL1	NT622051603.D	NA	05/16/22 18:19
8270 ICal	SKE0212-CAL2	NT622051604.D	NA	05/16/22 18:52
8270 ICal	SKE0212-CAL3	NT622051605.D	NA	05/16/22 19:25
8270 ICal	SKE0212-CAL5	NT622051606.D	NA	05/16/22 19:59
8270 ICal	SKE0212-CAL6	NT622051607.D	NA	05/16/22 20:33
8270 ICal	SKE0212-CAL7	NT622051608.D	NA	05/16/22 21:06
Secondary Cal Check	SKE0212-SCV1	NT622051702.D	NA	05/17/22 12:39



ANALYSIS SEQUENCE

SKE0212

Instrument: NT6 Element Column ID: K001588
Calibration ID: FE00035 Tune File: 220209.U
EM Voltage: 1635

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SKE0212-TUN1	MS Tune	QC		1	K004655		
SKE0212-ICB1	Initial Cal Blank	QC		2		J012358	
SKE0212-CAL1	8270 ICal	QC		3	K004652	J012358	
SKE0212-CAL2	8270 ICal	QC		4	K004653	J012358	
SKE0212-CAL3	8270 ICal	QC		5	K004654	J012358	
SKE0212-CAL4	8270 ICal	QC		6	K004655	J012358	
SKE0212-CAL5	8270 ICal	QC		7	K004656	J012358	
SKE0212-CAL6	8270 ICal	QC		8	K004657	J012358	
SKE0212-CAL7	8270 ICal	QC		9	K004658	J012358	
SKE0212-SCV1	Secondary Cal Check	QC		10	K004689	J012358	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt6.i\20220516.b

Time	Filename	LabID	ClientId	DF										
1	1711	NT622051601.D	SKE0212-CAL4	1	8.71	71723 10.75	255203 13.62	144799 16.02	257295 20.36	195882 21.43	272032 22.55	222542		
2	1711	NT622051601A.D	SKE0212-TUN1	1	NO ISTDs FOUND									
3	1745	NT622051602.D	SKE0212-ICB1	1	8.71	75058 10.75	256178 13.62	146782 16.02	256993 20.36	199514 21.43	262864 22.55	212958		
4	1819	NT622051603.D	SKE0212-CAL1	1	8.71	78626 10.75	270390 13.62	161550 16.02	279651 20.35	205373 21.43	268090 22.55	216707		
5	1852	NT622051604.D	SKE0212-CAL2	1	8.71	82013 10.75	289042 13.62	163263 16.02	285473 20.36	208902 21.43	281399 22.55	230563		
6	1925	NT622051605.D	SKE0212-CAL3	1	8.71	79426 10.75	268502 13.63	155071 16.02	272217 20.36	205628 21.43	282768 22.55	236979		
7	1959	NT622051606.D	SKE0212-CAL5	1	8.71	73865 10.76	259337 13.63	150319 16.02	270288 20.36	188950 21.43	264477 22.55	217916		
8	2033	NT622051607.D	SKE0212-CAL6	1	8.71	74390 10.76	256785 13.63	151055 16.02	269444 20.37	196077 21.43	278736 22.56	234465		
9	2106	NT622051608.D	SKE0212-CAL7	1	8.72	73198 10.76	251973 13.63	146292 16.02	264427 20.37	205536 21.44	296289 22.56	253056		
10	1239	NT622051702.D	SKE0212-SCV1	1	8.70	78743 10.75	265327 13.63	154616 16.02	277010 20.36	212766 21.43	294742 22.55	235601		

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt6.i\20220516.b

ARI Job No.: SKE0 Method: SW84620220516.m Instrument: nt6.i Date: 16-MAY-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1711	NT622051601.D	SKE0212-CAL4		1	NO MANUAL INTEGRATION
1745	NT622051602.D	SKE0212-ICB1		1	NO MANUAL INTEGRATION
1819	NT622051603.D	SKE0212-CAL1		1	3-Nitroaniline, 4-Chlorophenyl-phenylether, 1,2-Dichlorobenzene-d4,
1852	NT622051604.D	SKE0212-CAL2		1	Total Benzofluoranthenes,
1925	NT622051605.D	SKE0212-CAL3		1	NO MANUAL INTEGRATION
1959	NT622051606.D	SKE0212-CAL5		1	NO MANUAL INTEGRATION
2033	NT622051607.D	SKE0212-CAL6		1	NO MANUAL INTEGRATION
2106	NT622051608.D	SKE0212-CAL7		1	NO MANUAL INTEGRATION
1239	NT622051702.D	SKE0212-SCV1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 17-May-2022 14:05

NT622051601.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051601A.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051602.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051603.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051604.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051605.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051606.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051607.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051608.D	Data Locked	jianqing, 17-May-2022 14:05
NT622051702.D	Data Locked	jianqing, 17-May-2022 14:05



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKG0132

Instrument: NT6

Calibration: FE00035

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SKG0132-TUN1	NT622071321B.D	NA	07/13/22 22:06
Initial Cal Check	SKG0132-ICV1	NT622071321A.D	NA	07/13/22 22:06
Blank	BKG0169-BLK1	NT622071323.D	Water	07/13/22 23:13
LCS	BKG0169-BS1	NT622071324.D	Water	07/13/22 23:47
LCS Dup	BKG0169-BSD1	NT622071325.D	Water	07/14/22 00:21
Z1A-4-PW	22G0121-02	NT622071326.D	Water	07/14/22 00:55
Z1A-7-PW	22G0121-03	NT622071327.D	Water	07/14/22 01:28
Calibration Check	SKG0132-CCV1	NT622071328.D	NA	07/14/22 02:02



ANALYSIS SEQUENCE

SKG0132

Instrument: NT6 Element Column ID: K001588
Calibration ID: FE00035 Tune File: 220209.U
EM Voltage: 1635

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SKG0132-TUN1	MS Tune	QC		1	K004655		
SKG0132-ICV1	Initial Cal Check	QC		2	K004655	J012358	
BKG0169-BLK1	Blank	QC		3		J012358	
BKG0169-BS1	LCS	QC		4		J012358	
BKG0169-BSD1	LCS Dup	QC		5		J012358	
22G0121-02	Z1A-4-PW	8270E SVOC (67ug/kg or 1ug/L LiqLiq)	B 01	6		J012358	PAH Waters
22G0121-03	Z1A-7-PW	8270E SVOC (67ug/kg or 1ug/L LiqLiq)	B 01	7		J012358	PAH Waters
SKG0132-CCV1	Calibration Check	QC		8	K004655	J012358	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt6.i\20220713A.b

Time	Filename	LabID	ClientId	DF										
1	2206	NT622071321A.D	SKG0132-ICV1		1	8.24	49157 10.27	173237 13.13	116765 15.50	233112 19.82	196434 20.94	268008 21.98	200282	
2	2206	NT622071321B.D	SKG0132-TUN1		1	NO ISTDs FOUND								
3	2240	NT622071322.D	SKG0132-ICV1		1	8.24	116314 10.28	404665 13.13	271225 15.51	524069 19.84	459160 20.95	626106 21.99	467998	
4	2313	NT622071323.D	BKG0169-BLK1		1	8.24	66276 10.27	235501 13.12	147929 15.50	279873 19.82	245976 20.94	323007 21.98	253990	
5	2347	NT622071324.D	BKG0169-BS1		1	8.24	66267 10.28	222815 13.13	146427 15.50	279912 19.82	249281 20.94	332613 21.98	257694	
6	0021	NT622071325.D	BKG0169-BSD1		1	8.24	69335 10.28	232187 13.13	153472 15.50	300011 19.82	260573 20.94	345176 21.98	263142	
7	0055	NT622071326.D	22G0121-02		1	8.24	64108 10.27	228629 13.14	128352 15.52	266446 19.82	230251 20.94	308530 21.98	241416	
8	0128	NT622071327.D	22G0121-03		1	8.24	67326 10.27	233290 13.12	139585 15.50	256855 19.81	215601 20.94	296090 21.98	238713	
9	0202	NT622071328.D	SKG0132-CCV1		1	8.23	51437 10.27	185087 13.13	125470 15.50	245470 19.82	213855 20.94	287272 21.98	211373	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt6.i\20220713A.b

ARI Job No.: SKG0 Method: SW84620220516.m Instrument: nt6.i Date: 13-JUL-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2206	NT622071321A.D	SKG0132-ICV1		1	NO MANUAL INTEGRATION
2240	NT622071322.D	SKG0132-LCV1		1	NO MANUAL INTEGRATION
2313	NT622071323.D	BKG0169-BLK1		1	NO MANUAL INTEGRATION
2347	NT622071324.D	BKG0169-BS1		1	NO MANUAL INTEGRATION
0021	NT622071325.D	BKG0169-BSD1		1	NO MANUAL INTEGRATION
0055	NT622071326.D	22G0121-02		1	Acenaphthene, Total Benzo(a)fluoranthenes, 4-Methylphenol, Benzoic acid, Naphthalene, Dibenzofuran, Benzo(k)fluoranthene, Anthracene, Benzo(a)anthracene, bis(2-Ethylhexyl)phthalate, 2,4,6-Tribromophenol,
0128	NT622071327.D	22G0121-03		1	Fluoranthene, Pyrene,
0202	NT622071328.D	SKG0132-CCV1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 17-Jul-2022 16:27

NT622071321A.D	Data Locked	jianqing, 17-Jul-2022 16:27
NT622071321B.D	Data Locked	jianqing, 17-Jul-2022 16:27
NT622071322.D	Data Locked	jianqing, 17-Jul-2022 16:27
NT622071323.D	Data Locked	jianqing, 17-Jul-2022 16:27
NT622071324.D	Data Locked	jianqing, 17-Jul-2022 16:27
NT622071325.D	Data Locked	jianqing, 17-Jul-2022 16:27
NT622071326.D	Data Locked	jianqing, 17-Jul-2022 16:27
NT622071327.D	Data Locked	jianqing, 17-Jul-2022 16:27
NT622071328.D	Data Locked	jianqing, 17-Jul-2022 16:27



Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKG0144

Instrument: NT6

Calibration: FE00035

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SKG0144-TUN1	NT622071501A.D	NA	07/15/22 10:24
Initial Cal Check	SKG0144-ICV1	NT622071501.D	NA	07/15/22 10:24
Z1A-4-PW	22G0121-02RE1	NT622071504.D	Water	07/15/22 13:43
ZZZZZ	22G0195-01	NT622071507.D	Water	07/15/22 16:50
ZZZZZ	22G0164-05	NT622071508.D	Water	07/15/22 17:24
Calibration Check	SKG0144-CCV1	NT622071509.D	NA	07/15/22 17:58



ANALYSIS SEQUENCE

SKG0144

Instrument: NT6 Element Column ID: K001588
Calibration ID: FE00035 Tune File: 220209.U
EM Voltage: 1635

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SKG0144-TUN1	MS Tune	QC		1	K004655		
SKG0144-ICV1	Initial Cal Check	QC		2	K004655	J012358	
SKG0144-LCV1	Low Cal Check	QC		3	K004653	J012358	
22G0121-02RE1	Z1A-4-PW	8270E SVOC (67ug/kg or 1ug/L LiqLiq)	B 01	4		J012358	Added 7/14/2022 by JZ
BKG0278-BLK1	Blank	QC		5		J012358	
BKG0278-BS1	LCS	QC		6		J012358	
22G0164-05	45-334 July Sample	8270E SVOC (1-20ug/L SepF)	A 01	7		J012358	
22G0195-01	A90277 (comp)	8270E SVOC (1-20ug/L SepF)	A 01	8		J012358	
SKG0144-CCV1	Calibration Check	QC		9	K004655	J012358	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt6.i\20220715.b

Time	Filename	LabID	ClientId	DF										
1	1024	NT622071501.D	SKG0144-ICV1		1	8.23	52019 10.27	183312 13.12	120091 15.49	221698 19.81	186782 20.93	262753 21.97	189769	
2	1024	NT622071501A.D	SKG0144-TUN1		1	NO ISTDs FOUND								
3	1059	NT622071502.D	SKG0144-LCV1		1	8.23	59729 10.26	205850 13.12	127244 15.49	226678 19.80	170872 20.93	229678 21.97	175660	
4	1254	NT622071503.D	K006469		5	8.22	67380 10.26	235682 13.12	146357 15.49	266652 19.81	204151 20.93	267288 21.97	199801	
5	1343	NT622071504.D	22G0121-02RE1		3	8.23	66386 10.26	223683 13.12	122617 15.50	224200 19.81	191768 20.93	278876 21.97	211160	
6	1543	NT622071505.D	BKG0278-BLK1		1	8.22	63865 10.26	227027 13.11	144627 15.49	256893 19.81	197145 20.93	275155 21.97	199639	
7	1617	NT622071506.D	BKG0278-BS1		1	8.23	63948 10.27	210918 13.13	134998 15.50	242353 19.81	211432 20.93	289101 21.98	212866	
8	1650	NT622071507.D	22G0195-01		1	8.23	65307 10.26	231442 13.12	143829 15.49	255472 19.80	198545 20.93	261778 21.97	202940	
9	1724	NT622071508.D	22G0164-05		1	8.23	65647 10.26	228657 13.12	138631 15.49	245479 19.80	178404 20.93	239534 21.97	182102	
10	1758	NT622071509.D	SKG0144-CCV1		1	8.23	51548 10.26	179652 13.12	117308 15.49	214119 19.81	171943 20.93	238803 21.97	179166	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt6.i\20220715.b

ARI Job No.: SKG0 Method: SW84620220516.m Instrument: nt6.i Date: 15-JUL-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1024	NT622071501.D	SKG0144-ICV1		1	NO MANUAL INTEGRATION
1059	NT622071502.D	SKG0144-LCV1		1	Total Benzofluoranthenes,
1343	NT622071504.D	22G0121-02RE1		3	Acenaphthene, Benzoic acid, Naphthalene, Fluorene, Phenanthrene, Anthracene, Pyrene, Terphenyl-d14,
1543	NT622071505.D	BKG0278-BLK1		1	NO MANUAL INTEGRATION
1617	NT622071506.D	BKG0278-BS1		1	NO MANUAL INTEGRATION
1650	NT622071507.D	22G0195-01		1	NO MANUAL INTEGRATION
1724	NT622071508.D	22G0164-05		1	NO MANUAL INTEGRATION
1758	NT622071509.D	SKG0144-CCV1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 17-Jul-2022 21:36

NT622071501.D	Data Locked	jianqing, 17-Jul-2022 21:36
NT622071501A.D	Data Locked	jianqing, 17-Jul-2022 21:36
NT622071502.D	Data Locked	jianqing, 17-Jul-2022 21:36
NT622071504.D	Data Locked	jianqing, 17-Jul-2022 21:36
NT622071505.D	Data Locked	jianqing, 17-Jul-2022 21:36
NT622071506.D	Data Locked	jianqing, 17-Jul-2022 21:36
NT622071507.D	Data Locked	jianqing, 17-Jul-2022 21:36
NT622071508.D	Data Locked	jianqing, 17-Jul-2022 21:36
NT622071509.D	Data Locked	jianqing, 17-Jul-2022 21:36



Extract Dilution Bench Sheet

Sequence: SKG0144

Analyst: JZ

Date: 7/15/22

Sample ID	Primary Dilution				Secondary Dilution			
	Extract Volume (uL)	Diluent ID	Diluent Volume (uL)	Dilution Factor	Extract Volume (uL)	Diluent ID	Diluent Volume (uL)	Dilution Factor
22G0121-02RE1	100	K005133	200	3				



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: GeoEngineers
Sequence: SKE0212
Calibration: FE00035

SDG/WO: 22G0121
Project: RG Haley Site-Bellingham
Instrument: NT6
Calibration Date: 05/16/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKE0212-ICB1 (Water)		Lab File ID: NT622051602.D			Analyzed: 05/16/22 17:45			
2-Fluorophenol			33 - 120		6.753429	-6.7534	N/A	
Phenol-d5			38 - 120		8.232143	-8.2321	N/A	
2-Chlorophenol-d4			41 - 120		8.406143	-8.4061	N/A	
1,2-Dichlorobenzene-d4			20 - 120		9.008714	-9.0087	N/A	
Nitrobenzene-d5			27 - 120		9.635143	-9.6351	N/A	
2-Fluorobiphenyl			33 - 120		12.53571	-12.5357	N/A	
2,4,6-Tribromophenol			52 - 120		14.924	-14.9240	N/A	
p-Terphenyl-d14			28 - 120		18.65383	-18.6538	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: GeoEngineers
Sequence: SKG0132
Calibration: FE00035

SDG/WO: 22G0121
Project: RG Haley Site-Bellingham
Instrument: NT6
Calibration Date: 05/16/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKG0132-ICV1 (Water) Lab File ID: NT622071321A.D Analyzed: 07/13/22 22:06								
2-Fluorophenol	37.500	111	80 - 120	6.309	6.753429	-0.4444	N/A	
Phenol-d5	37.500	113	80 - 120	7.826	8.232143	-0.4061	N/A	
2-Chlorophenol-d4	37.500	115	80 - 120	7.949	8.406143	-0.4571	N/A	
1,2-Dichlorobenzene-d4	25.000	109	80 - 120	8.531	9.008714	-0.4777	N/A	
Nitrobenzene-d5	25.000	117	80 - 120	9.161	9.635143	-0.4741	N/A	
2-Fluorobiphenyl	25.000	106	80 - 120	12.056	12.53571	-0.4797	N/A	
2,4,6-Tribromophenol	37.500	117	80 - 120	14.422	14.924	-0.5020	N/A	
p-Terphenyl-d14	25.000	101	80 - 120	18.14	18.65383	-0.5138	N/A	
BKG0169-BLK1 (Water) Lab File ID: NT622071323.D Analyzed: 07/13/22 23:13								
2-Fluorophenol	37.500	99.1	33 - 120	6.308	6.753429	-0.4454	N/A	
Phenol-d5	37.500	104	38 - 120	7.82	8.232143	-0.4121	N/A	
2-Chlorophenol-d4	37.500	104	41 - 120	7.948	8.406143	-0.4581	N/A	
1,2-Dichlorobenzene-d4	25.000	95.9	20 - 120	8.53	9.008714	-0.4787	N/A	
Nitrobenzene-d5	25.000	111	27 - 120	9.16	9.635143	-0.4751	N/A	
2-Fluorobiphenyl	25.000	104	33 - 120	12.055	12.53571	-0.4807	N/A	
2,4,6-Tribromophenol	37.500	124	52 - 120	14.416	14.924	-0.5080	N/A	*
p-Terphenyl-d14	25.000	125	28 - 120	18.139	18.65383	-0.5148	N/A	*
BKG0169-BS1 (Water) Lab File ID: NT622071324.D Analyzed: 07/13/22 23:47								
2-Fluorophenol	37.500	95.7	33 - 120	6.306	6.753429	-0.4474	N/A	
Phenol-d5	37.500	104	38 - 120	7.823	8.232143	-0.4091	N/A	
2-Chlorophenol-d4	37.500	101	41 - 120	7.946	8.406143	-0.4601	N/A	
1,2-Dichlorobenzene-d4	25.000	94.6	20 - 120	8.534	9.008714	-0.4747	N/A	
Nitrobenzene-d5	25.000	113	27 - 120	9.164	9.635143	-0.4711	N/A	
2-Fluorobiphenyl	25.000	103	33 - 120	12.059	12.53571	-0.4767	N/A	
2,4,6-Tribromophenol	37.500	130	52 - 120	14.425	14.924	-0.4990	N/A	*
p-Terphenyl-d14	25.000	120	28 - 120	18.142	18.65383	-0.5118	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: GeoEngineers
Sequence: SKG0132
Calibration: FE00035

SDG/WO: 22G0121
Project: RG Haley Site-Bellingham
Instrument: NT6
Calibration Date: 05/16/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKG0169-BSD1 (Water)		Lab File ID: NT622071325.D			Analyzed: 07/14/22 00:21			
2-Fluorophenol	37.500	91.7	33 - 120	6.307	6.753429	-0.4464	N/A	
Phenol-d5	37.500	97.4	38 - 120	7.824	8.232143	-0.4081	N/A	
2-Chlorophenol-d4	37.500	95.3	41 - 120	7.947	8.406143	-0.4591	N/A	
1,2-Dichlorobenzene-d4	25.000	88.3	20 - 120	8.534	9.008714	-0.4747	N/A	
Nitrobenzene-d5	25.000	108	27 - 120	9.164	9.635143	-0.4711	N/A	
2-Fluorobiphenyl	25.000	97.1	33 - 120	12.059	12.53571	-0.4767	N/A	
2,4,6-Tribromophenol	37.500	124	52 - 120	14.425	14.924	-0.4990	N/A	*
p-Terphenyl-d14	25.000	119	28 - 120	18.137	18.65383	-0.5168	N/A	
22G0121-02 (Water)		Lab File ID: NT622071326.D			Analyzed: 07/14/22 00:55			
2-Fluorophenol	53.571	89.8	33 - 120	6.307	6.753429	-0.4464	N/A	
Phenol-d5	53.571	98.3	38 - 120	7.83	8.232143	-0.4021	N/A	
2-Chlorophenol-d4	53.571	98.6	41 - 120	7.947	8.406143	-0.4591	N/A	
1,2-Dichlorobenzene-d4	35.714	87.0	20 - 120	8.535	9.008714	-0.4737	N/A	
Nitrobenzene-d5	35.714	104	27 - 120	9.165	9.635143	-0.4701	N/A	
2-Fluorobiphenyl	35.714	92.2	33 - 120	12.065	12.53571	-0.4707	N/A	
2,4,6-Tribromophenol	53.571	132	52 - 120	14.436	14.924	-0.4880	N/A	*
p-Terphenyl-d14	35.714	74.2	28 - 120	18.143	18.65383	-0.5108	N/A	
22G0121-03 (Water)		Lab File ID: NT622071327.D			Analyzed: 07/14/22 01:28			
2-Fluorophenol	68.182	80.4	33 - 120	6.307	6.753429	-0.4464	N/A	
Phenol-d5	68.182	87.7	38 - 120	7.824	8.232143	-0.4081	N/A	
2-Chlorophenol-d4	68.182	84.8	41 - 120	7.946	8.406143	-0.4601	N/A	
1,2-Dichlorobenzene-d4	45.455	80.1	20 - 120	8.534	9.008714	-0.4747	N/A	
Nitrobenzene-d5	45.455	93.4	27 - 120	9.159	9.635143	-0.4761	N/A	
2-Fluorobiphenyl	45.455	95.1	33 - 120	12.059	12.53571	-0.4767	N/A	
2,4,6-Tribromophenol	68.182	122	52 - 120	14.414	14.924	-0.5100	N/A	*
p-Terphenyl-d14	45.455	88.3	28 - 120	18.137	18.65383	-0.5168	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG/WO: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKG0132

Instrument: NT6

Calibration: FE00035

Calibration Date: 05/16/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKG0132-CCV1 (Water)		Lab File ID: NT622071328.D			Analyzed: 07/14/22 02:02			
2-Fluorophenol	37.500	112	50 - 150	6.312	6.753429	-0.4414	N/A	
Phenol-d5	37.500	113	50 - 150	7.823	8.232143	-0.4091	N/A	
2-Chlorophenol-d4	37.500	115	50 - 150	7.946	8.406143	-0.4601	N/A	
1,2-Dichlorobenzene-d4	25.000	111	50 - 150	8.533	9.008714	-0.4757	N/A	
Nitrobenzene-d5	25.000	115	50 - 150	9.164	9.635143	-0.4711	N/A	
2-Fluorobiphenyl	25.000	104	50 - 150	12.059	12.53571	-0.4767	N/A	
2,4,6-Tribromophenol	37.500	123	50 - 150	14.425	14.924	-0.4990	N/A	
p-Terphenyl-d14	25.000	100	50 - 150	18.137	18.65383	-0.5168	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: GeoEngineers
Sequence: SKG0144
Calibration: FE00035

SDG/WO: 22G0121
Project: RG Haley Site-Bellingham
Instrument: NT6
Calibration Date: 05/16/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKG0144-ICV1 (Water) Lab File ID: NT622071501.D Analyzed: 07/15/22 10:24								
2-Fluorophenol	37.500	113	80 - 120	6.297	6.753429	-0.4564	N/A	
Phenol-d5	37.500	112	80 - 120	7.813	8.232143	-0.4191	N/A	
2-Chlorophenol-d4	37.500	115	80 - 120	7.942	8.406143	-0.4641	N/A	
1,2-Dichlorobenzene-d4	25.000	110	80 - 120	8.524	9.008714	-0.4847	N/A	
Nitrobenzene-d5	25.000	113	80 - 120	9.154	9.635143	-0.4811	N/A	
2-Fluorobiphenyl	25.000	105	80 - 120	12.049	12.53571	-0.4867	N/A	
2,4,6-Tribromophenol	37.500	118	80 - 120	14.415	14.924	-0.5090	N/A	
p-Terphenyl-d14	25.000	98.1	80 - 120	18.132	18.65383	-0.5218	N/A	
22G0121-02RE1 (Water) Lab File ID: NT622071504.D Analyzed: 07/15/22 13:43								
2-Fluorophenol	53.571	88.1	33 - 120	6.293	6.753429	-0.4604	N/A	
Phenol-d5	53.571	91.4	38 - 120	7.804	8.232143	-0.4281	N/A	
2-Chlorophenol-d4	53.571	92.9	41 - 120	7.932	8.406143	-0.4741	N/A	
1,2-Dichlorobenzene-d4	35.714	83.7	20 - 120	8.525	9.008714	-0.4837	N/A	
Nitrobenzene-d5	35.714	102	27 - 120	9.15	9.635143	-0.4851	N/A	
2-Fluorobiphenyl	35.714	90.9	33 - 120	12.05	12.53571	-0.4857	N/A	
2,4,6-Tribromophenol	53.571	124	52 - 120	14.417	14.924	-0.5070	N/A	*
p-Terphenyl-d14	35.714	74.2	28 - 120	18.134	18.65383	-0.5198	N/A	
SKG0144-CCV1 (Water) Lab File ID: NT622071509.D Analyzed: 07/15/22 17:58								
2-Fluorophenol	37.500	111	50 - 150	6.301	6.753429	-0.4524	N/A	
Phenol-d5	37.500	111	50 - 150	7.813	8.232143	-0.4191	N/A	
2-Chlorophenol-d4	37.500	114	50 - 150	7.941	8.406143	-0.4651	N/A	
1,2-Dichlorobenzene-d4	25.000	108	50 - 150	8.529	9.008714	-0.4797	N/A	
Nitrobenzene-d5	25.000	117	50 - 150	9.159	9.635143	-0.4761	N/A	
2-Fluorobiphenyl	25.000	106	50 - 150	12.054	12.53571	-0.4817	N/A	
2,4,6-Tribromophenol	37.500	117	50 - 150	14.414	14.924	-0.5100	N/A	
p-Terphenyl-d14	25.000	102	50 - 150	18.132	18.65383	-0.5218	N/A	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: GeoEngineers
Sequence: SKE0212

SDG: 22G0121
Project: RG Haley Site-Bellingham
Instrument: NT6
Calibration: FE00035

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Blank (SKE0212-ICB1)		(Water)	Lab File ID: NT622051602.D			Analyzed: 05/16/22 17:45			
1,4-Dichlorobenzene-d4	75058	8.708	71723	8.709	105	50 - 200	-0.001	+/-0.50	
Naphthalene-d8	256178	10.748	255203	10.75	100	50 - 200	-0.002	+/-0.50	
Acenaphthene-d10	146782	13.622	144799	13.623	101	50 - 200	-0.001	+/-0.50	
Phenanthrene-d10	256993	16.015	257295	16.016	100	50 - 200	-0.001	+/-0.50	
Chrysene-d12	199514	20.357	195882	20.364	102	50 - 200	-0.007	+/-0.50	
Di-n-Octylphthalate-d4	262864	21.425	272032	21.432	97	50 - 200	-0.007	+/-0.50	
Perylene-d12	212958	22.547	222542	22.553	96	50 - 200	-0.006	+/-0.50	
Secondary Cal Check (SKE0212-SCV1)		(Water)	Lab File ID: NT622051702.D			Analyzed: 05/17/22 12:39			
1,4-Dichlorobenzene-d4	78743	8.704	71723	8.709	110	50 - 200	-0.005	+/-0.50	
Naphthalene-d8	265327	10.75	255203	10.75	104	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	154616	13.629	144799	13.623	107	50 - 200	0.006	+/-0.50	
Phenanthrene-d10	277010	16.016	257295	16.016	108	50 - 200	0.000	+/-0.50	
Chrysene-d12	212766	20.364	195882	20.364	109	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	294742	21.432	272032	21.432	108	50 - 200	0.000	+/-0.50	
Perylene-d12	235601	22.554	222542	22.553	106	50 - 200	0.001	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: GeoEngineers
Sequence: SKG0132

SDG: 22G0121
Project: RG Haley Site-Bellingham
Instrument: NT6
Calibration: FE00035

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SKG0132-ICV1)		(Water)	Lab File ID: NT622071321A.D			Analyzed: 07/13/22 22:06			
1,4-Dichlorobenzene-d4	49157	8.237	49157	8.237	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	173237	10.272	173237	10.272	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	116765	13.125	116765	13.125	100	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	233112	15.501	233112	15.501	100	50 - 200	0.000	+/-0.50	
Chrysene-d12	196434	19.817	196434	19.817	100	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	268008	20.939	268008	20.939	100	50 - 200	0.000	+/-0.50	
Perylene-d12	200282	21.98	200282	21.98	100	50 - 200	0.000	+/-0.50	
Blank (BKG0169-BLK1)		(Water)	Lab File ID: NT622071323.D			Analyzed: 07/13/22 23:13			
1,4-Dichlorobenzene-d4	66276	8.236	49157	8.237	135	50 - 200	-0.001	+/-0.50	
Naphthalene-d8	235501	10.266	173237	10.272	136	50 - 200	-0.006	+/-0.50	
Acenaphthene-d10	147929	13.123	116765	13.125	127	50 - 200	-0.002	+/-0.50	
Phenanthrene-d10	279873	15.5	233112	15.501	120	50 - 200	-0.001	+/-0.50	
Chrysene-d12	245976	19.816	196434	19.817	125	50 - 200	-0.001	+/-0.50	
Di-n-Octylphthalate-d4	323007	20.937	268008	20.939	121	50 - 200	-0.002	+/-0.50	
Perylene-d12	253990	21.979	200282	21.98	127	50 - 200	-0.001	+/-0.50	
LCS (BKG0169-BS1)		(Water)	Lab File ID: NT622071324.D			Analyzed: 07/13/22 23:47			
1,4-Dichlorobenzene-d4	66267	8.24	49157	8.237	135	50 - 200	0.003	+/-0.50	
Naphthalene-d8	222815	10.275	173237	10.272	129	50 - 200	0.003	+/-0.50	
Acenaphthene-d10	146427	13.132	116765	13.125	125	50 - 200	0.007	+/-0.50	
Phenanthrene-d10	279912	15.504	233112	15.501	120	50 - 200	0.003	+/-0.50	
Chrysene-d12	249281	19.819	196434	19.817	127	50 - 200	0.002	+/-0.50	
Di-n-Octylphthalate-d4	332613	20.941	268008	20.939	124	50 - 200	0.002	+/-0.50	
Perylene-d12	257694	21.982	200282	21.98	129	50 - 200	0.002	+/-0.50	
LCS Dup (BKG0169-BSD1)		(Water)	Lab File ID: NT622071325.D			Analyzed: 07/14/22 00:21			
1,4-Dichlorobenzene-d4	69335	8.235	49157	8.237	141	50 - 200	-0.002	+/-0.50	
Naphthalene-d8	232187	10.275	173237	10.272	134	50 - 200	0.003	+/-0.50	
Acenaphthene-d10	153472	13.133	116765	13.125	131	50 - 200	0.008	+/-0.50	
Phenanthrene-d10	300011	15.504	233112	15.501	129	50 - 200	0.003	+/-0.50	
Chrysene-d12	260573	19.82	196434	19.817	133	50 - 200	0.003	+/-0.50	
Di-n-Octylphthalate-d4	345176	20.936	268008	20.939	129	50 - 200	-0.003	+/-0.50	
Perylene-d12	263142	21.983	200282	21.98	131	50 - 200	0.003	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: GeoEngineers
Sequence: SKG0132

SDG: 22G0121
Project: RG Haley Site-Bellingham
Instrument: NT6
Calibration: FE00035

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Z1A-4-PW (22G0121-02)		(Water)	Lab File ID: NT622071326.D			Analyzed: 07/14/22 00:55			
1,4-Dichlorobenzene-d4	64108	8.235	49157	8.237	130	50 - 200	-0.002	+/-0.50	
Naphthalene-d8	228629	10.27	173237	10.272	132	50 - 200	-0.002	+/-0.50	
Acenaphthene-d10	128352	13.139	116765	13.125	110	50 - 200	0.014	+/-0.50	
Phenanthrene-d10	266446	15.515	233112	15.501	114	50 - 200	0.014	+/-0.50	
Chrysene-d12	230251	19.82	196434	19.817	117	50 - 200	0.003	+/-0.50	
Di-n-Octylphthalate-d4	308530	20.942	268008	20.939	115	50 - 200	0.003	+/-0.50	
Perylene-d12	241416	21.983	200282	21.98	121	50 - 200	0.003	+/-0.50	
Z1A-7-PW (22G0121-03)		(Water)	Lab File ID: NT622071327.D			Analyzed: 07/14/22 01:28			
1,4-Dichlorobenzene-d4	67326	8.235	49157	8.237	137	50 - 200	-0.002	+/-0.50	
Naphthalene-d8	233290	10.27	173237	10.272	135	50 - 200	-0.002	+/-0.50	
Acenaphthene-d10	139585	13.122	116765	13.125	120	50 - 200	-0.003	+/-0.50	
Phenanthrene-d10	256855	15.499	233112	15.501	110	50 - 200	-0.002	+/-0.50	
Chrysene-d12	215601	19.814	196434	19.817	110	50 - 200	-0.003	+/-0.50	
Di-n-Octylphthalate-d4	296090	20.936	268008	20.939	110	50 - 200	-0.003	+/-0.50	
Perylene-d12	238713	21.977	200282	21.98	119	50 - 200	-0.003	+/-0.50	
Calibration Check (SKG0132-CCV1)		(Water)	Lab File ID: NT622071328.D			Analyzed: 07/14/22 02:02			
1,4-Dichlorobenzene-d4	51437	8.234	49157	8.237	105	50 - 200	-0.003	+/-0.50	
Naphthalene-d8	185087	10.269	173237	10.272	107	50 - 200	-0.003	+/-0.50	
Acenaphthene-d10	125470	13.127	116765	13.125	107	50 - 200	0.002	+/-0.50	
Phenanthrene-d10	245470	15.498	233112	15.501	105	50 - 200	-0.003	+/-0.50	
Chrysene-d12	213855	19.819	196434	19.817	109	50 - 200	0.002	+/-0.50	
Di-n-Octylphthalate-d4	287272	20.935	268008	20.939	107	50 - 200	-0.004	+/-0.50	
Perylene-d12	211373	21.982	200282	21.98	106	50 - 200	0.002	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: GeoEngineers
Sequence: SKG0144

SDG: 22G0121
Project: RG Haley Site-Bellingham
Instrument: NT6
Calibration: FE00035

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SKG0144-ICV1)		(Water)	Lab File ID: NT622071501.D			Analyzed: 07/15/22 10:24			
1,4-Dichlorobenzene-d4	52019	8.23	52019	8.23	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	183312	10.265	183312	10.265	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	120091	13.117	120091	13.117	100	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	221698	15.494	221698	15.494	100	50 - 200	0.000	+/-0.50	
Chrysene-d12	186782	19.809	186782	19.809	100	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	262753	20.931	262753	20.931	100	50 - 200	0.000	+/-0.50	
Perylene-d12	189769	21.973	189769	21.973	100	50 - 200	0.000	+/-0.50	
Z1A-4-PW (22G0121-02RE1)		(Water)	Lab File ID: NT622071504.D			Analyzed: 07/15/22 13:43			
1,4-Dichlorobenzene-d4	66386	8.226	52019	8.23	128	50 - 200	-0.004	+/-0.50	
Naphthalene-d8	223683	10.261	183312	10.265	122	50 - 200	-0.004	+/-0.50	
Acenaphthene-d10	122617	13.124	120091	13.117	102	50 - 200	0.007	+/-0.50	
Phenanthrene-d10	224200	15.495	221698	15.494	101	50 - 200	0.001	+/-0.50	
Chrysene-d12	191768	19.806	186782	19.809	103	50 - 200	-0.003	+/-0.50	
Di-n-Octylphthalate-d4	278876	20.933	262753	20.931	106	50 - 200	0.002	+/-0.50	
Perylene-d12	211160	21.974	189769	21.973	111	50 - 200	0.001	+/-0.50	
Calibration Check (SKG0144-CCV1)		(Water)	Lab File ID: NT622071509.D			Analyzed: 07/15/22 17:58			
1,4-Dichlorobenzene-d4	51548	8.229	52019	8.23	99	50 - 200	-0.001	+/-0.50	
Naphthalene-d8	179652	10.264	183312	10.265	98	50 - 200	-0.001	+/-0.50	
Acenaphthene-d10	117308	13.117	120091	13.117	98	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	214119	15.493	221698	15.494	97	50 - 200	-0.001	+/-0.50	
Chrysene-d12	171943	19.809	186782	19.809	92	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	238803	20.931	262753	20.931	91	50 - 200	0.000	+/-0.50	
Perylene-d12	179166	21.967	189769	21.973	94	50 - 200	-0.006	+/-0.50	



HOLDING TIME SUMMARY

Analysis: EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Z1A-4-PW 22G0121-02	07/06/22 11:30	07/08/22 06:47	07/11/22 13:42	5	7	07/14/22 00:55	2	40	
Z1A-4-PW 22G0121-02RE1	07/06/22 11:30	07/08/22 06:47	07/11/22 13:42	5	7	07/15/22 13:43	4	40	
Z1A-7-PW 22G0121-03	07/06/22 11:10	07/08/22 06:47	07/11/22 13:42	5	7	07/14/22 01:28	2	40	

* Indicates hold time exceedance.



Analytical Resources, LLC
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Water

Instrument: NT6

Analyte	MDL	RL	Units
Naphthalene	0.2	1.0	ug/L
2-Methylnaphthalene	0.2	1.0	ug/L
Acenaphthene	0.3	1.0	ug/L
Pentachlorophenol	2.6	10.0	ug/L
Phenanthrene	0.2	1.0	ug/L
Fluoranthene	0.4	1.0	ug/L
Benzo(a)anthracene	0.4	1.0	ug/L
Chrysene	0.4	1.0	ug/L
Benzo(b)fluoranthene	0.4	1.0	ug/L
Benzo(k)fluoranthene	0.4	1.0	ug/L
Benzo(a)pyrene	0.5	1.0	ug/L
Indeno(1,2,3-cd)pyrene	0.4	1.0	ug/L
Dibenzo(a,h)anthracene	0.4	1.0	ug/L
1-Methylnaphthalene	0.3	1.0	ug/L



Form I
ORGANIC ANALYSIS DATA SHEET
NWTPH-Dx
TPH (Extractables) low level

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Water

Laboratory ID: 22G0121-01 A

SDG: 22G0121

Sampled: 07/06/22 11:30

Prepared: 07/11/22 14:03

File ID: 422G1215.D

% Solids:

Preparation: EPA 3510C SepF

Analyzed: 07/12/22 13:21

Batch: BKG0167

Sequence: SKG0101

Initial/Final: 100 mL / 1 mL

Instrument: FID4

Column: RTX-1

Calibration: FA00054

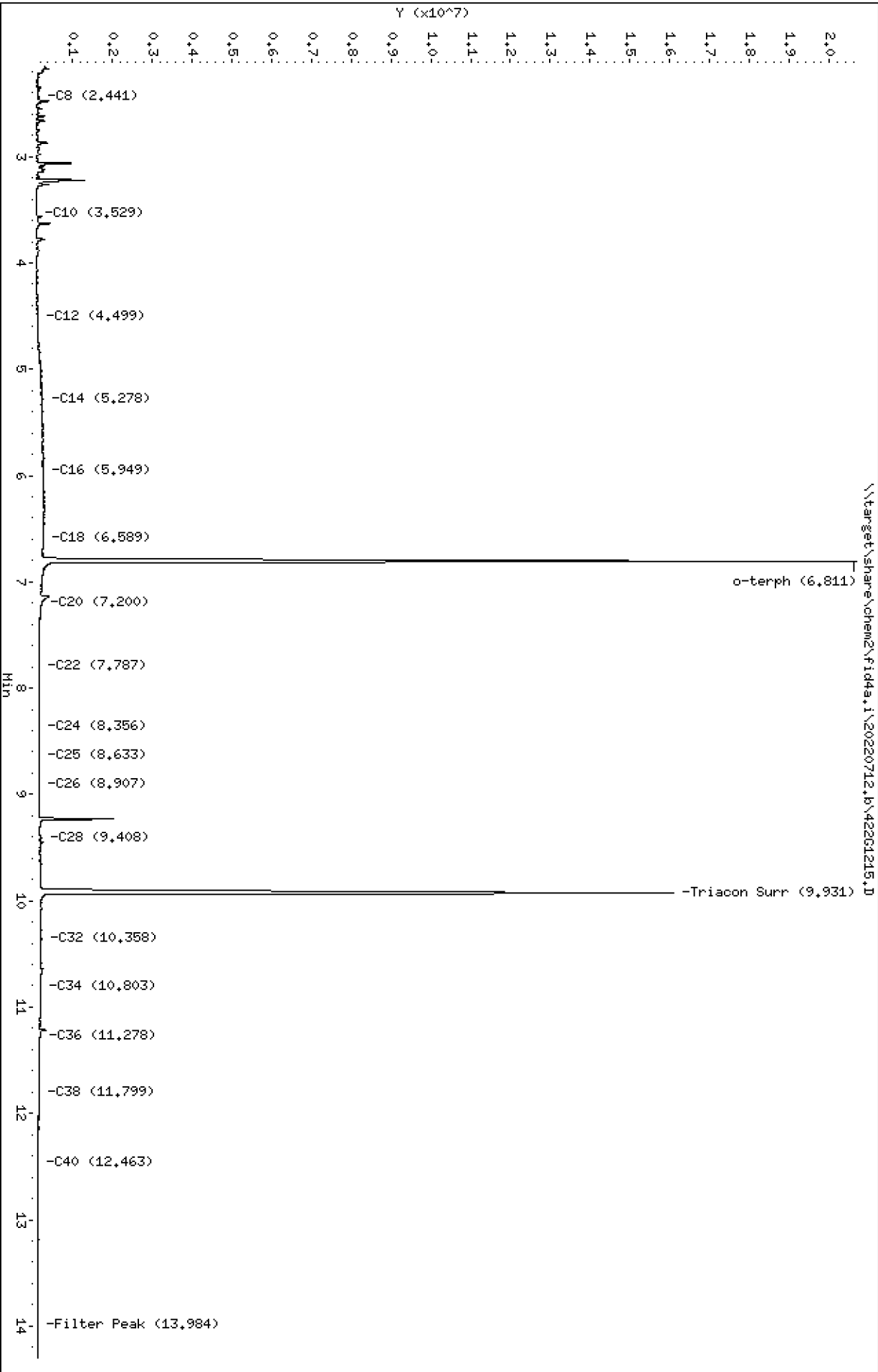
CAS NO.	COMPOUND	DILUTION	(mg/L)	Q	DL	RL
DRO	Diesel Range Organics (C12-C24)	1	1.72		0.165	0.500
RRO	Motor Oil Range Organics (C24-C38)	1	1.42		0.280	1.00

SURROGATES	ADDED:(mg/L)	(mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	1.1250	1.17	104	50 - 150	

Data File: \\target\share\chem2\fid4a,1\20220712,8\42261215.D
Date: 12-JUL-2022 13:21
Client ID:
Sample Info: 2200121-01

Column phase: RTX-1

Instrument: fid4a,1
Operator: AA/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1215.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/12/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: 22G0121-01
Client ID:
Injection: 12-JUL-2022 13:21
Dilution Factor: 1
RT Std: 422G1203.D

FID:4A RESULTS

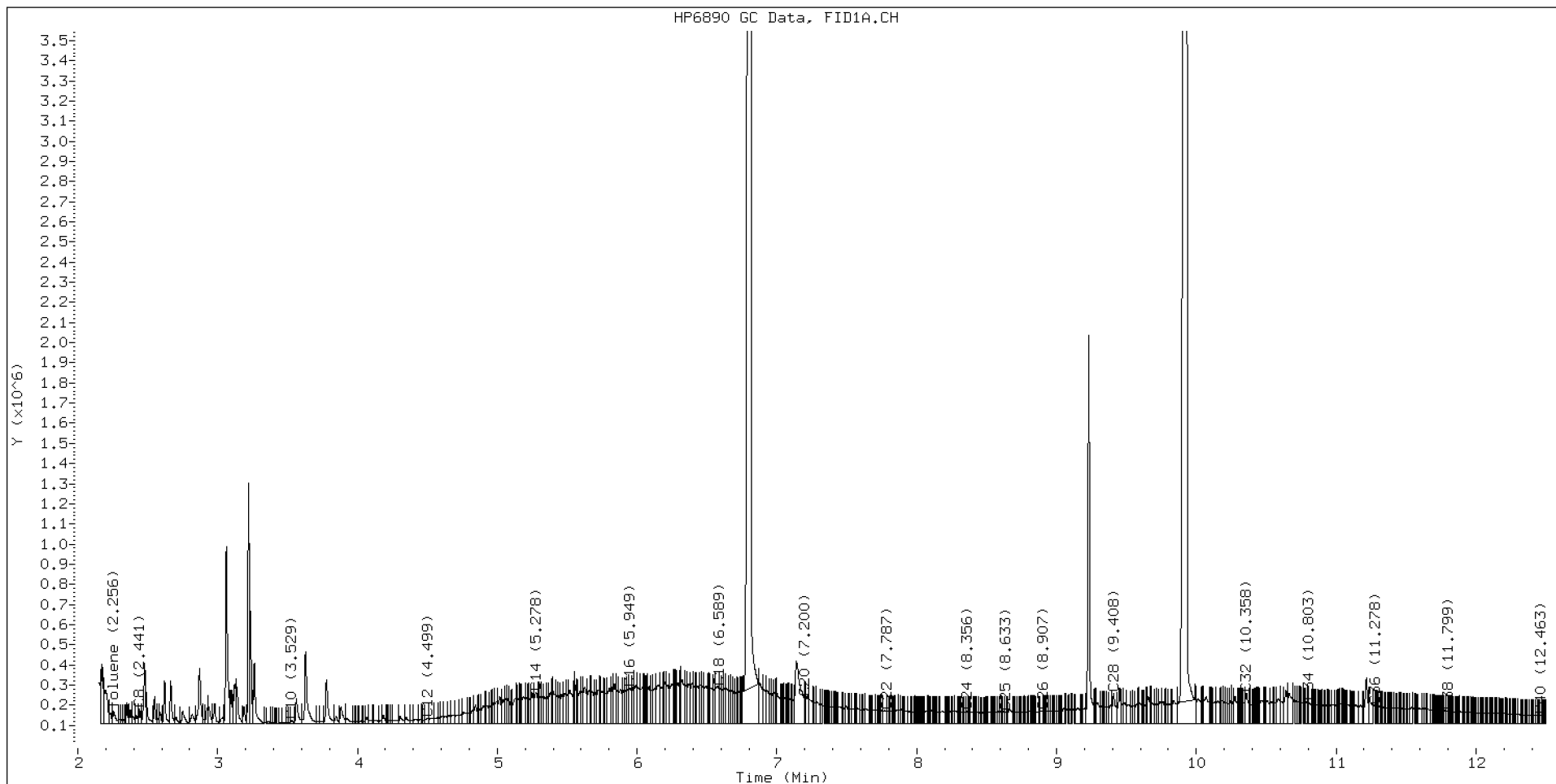
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.441	-0.003	69305	59171	WATPHD	(C12-C24)	27199853	171.5
C10	3.529	-0.009	13550	15852	WATPHM	(C24-C38)	18815291	141.9
C12	4.499	-0.008	23968	43673	AK102	(C10-C25)	29513667	156.1
C14	5.278	-0.004	157115	237574	AK103	(C25-C36)	16000693	161.8
C16	5.949	-0.005	175809	235938	OR.DIES	(C10-C28)	34544193	182.1
C18	6.589	0.007	177864	163407				
C20	7.200	0.012	127894	88452	JET-A	(C10-C18)	18541903	107.1
C22	7.787	0.005	62247	51583				
C24	8.356	0.002	59045	43664				
C25	8.633	0.002	58704	48816				
C26	8.907	0.004	60533	33086				
C28	9.408	-0.012	147740	233459				
C32	10.358	-0.012	150436	243419				
C34	10.803	-0.002	106807	120667				
Filter Peak	13.984	0.002	21528	4281				
C36	11.278	0.013	87800	60601				
C38	11.799	-0.001	60430	18083				
C40	12.463	0.003	40531	24167				
o-terph	6.811	-0.001	20396887	23858204				
Triacon Surr	9.931	-0.003	15876805	21478859	NAS DIES	(C10-C24)	28901872	153.2

Range Times: NW Diesel(4.507 - 8.354) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	23858204	117.2 M
Triacontane	21478859	123.3 M

M Indicates the peak was manually integrated

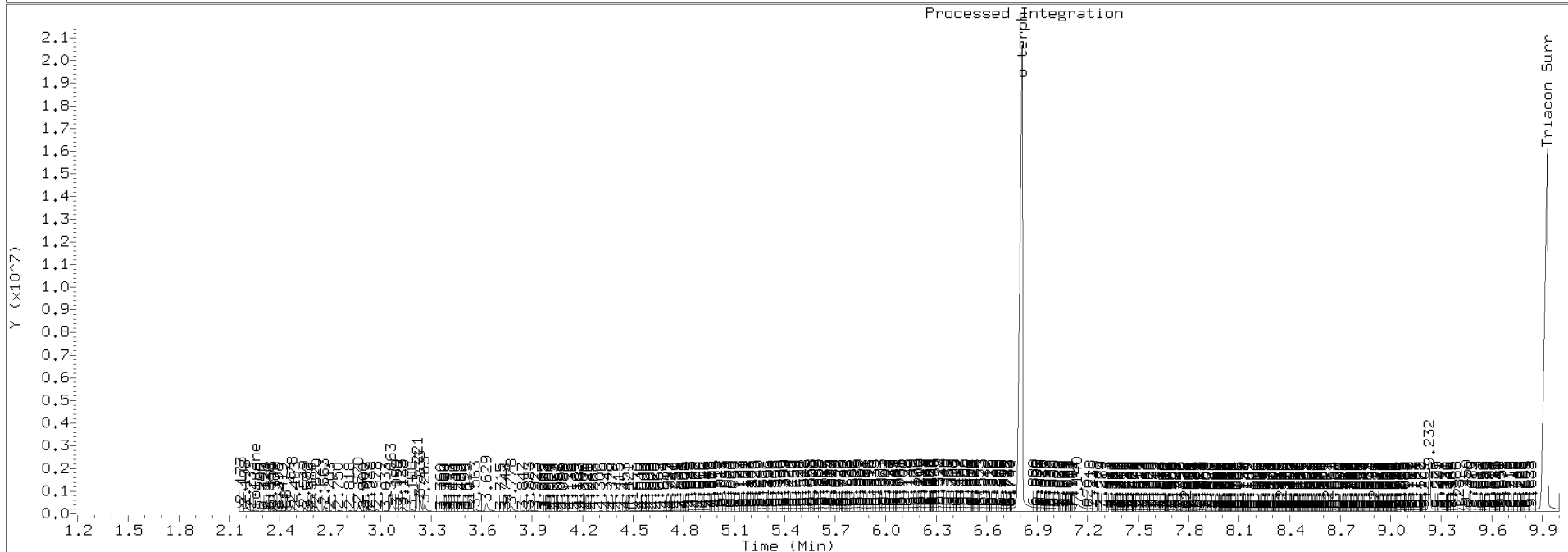
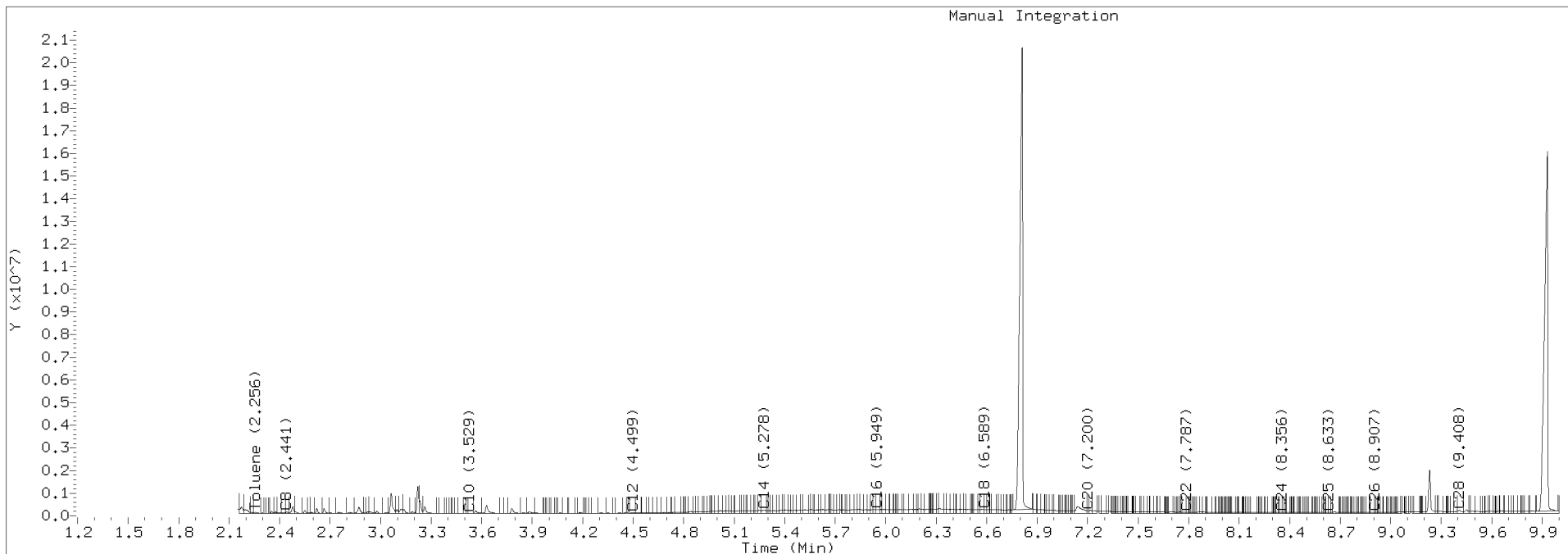
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1215.D Injection: 12-JUL-2022 13:21

Lab ID:22G0121-01





Form I
ORGANIC ANALYSIS DATA SHEET
NWTPH-Dx
TPH (Extractables) low level

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Water

Laboratory ID: 22G0121-02 A

SDG: 22G0121

Sampled: 07/06/22 11:30

Prepared: 07/11/22 14:03

File ID: 422G1234.D

% Solids:

Preparation: EPA 3510C SepF

Analyzed: 07/12/22 22:19

Batch: BKG0167

Sequence: SKG0126

Initial/Final: 330 mL / 1 mL

Instrument: FID4

Column: RTX-1

Calibration: FA00054

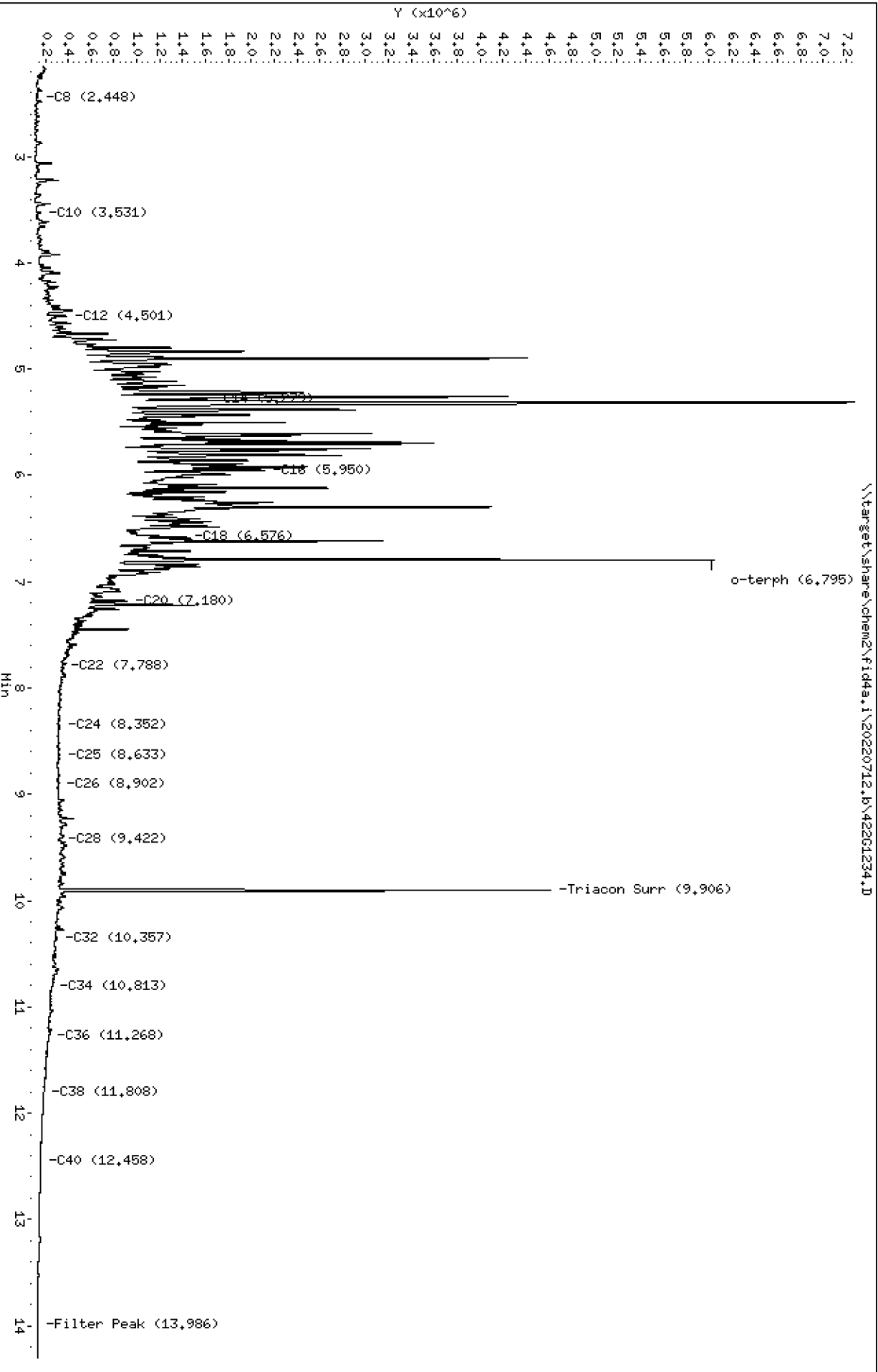
CAS NO.	COMPOUND	DILUTION	(mg/L)	Q	DL	RL
DRO	Diesel Range Organics (C12-C24)	5	19.6	D	0.250	0.758
RRO	Motor Oil Range Organics (C24-C38)	5	4.17	D	0.424	1.52

SURROGATES	ADDED:(mg/L)	(mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.34091	0.238	69.8	50 - 150	

Data File: \\target\share\chem2\fid4a,1\20220712.8\42261234.D
Date: 12-JUL-2022 22:19
Client ID:
Sample Info: 2200121-02.5

Column phase: RTX-1

Instrument: fid4a,1
Operator: AA/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1234.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/13/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: 22G0121-02
Client ID:
Injection: 12-JUL-2022 22:19
Dilution Factor: 5
RT Std: 422G1223.D

FID:4A RESULTS

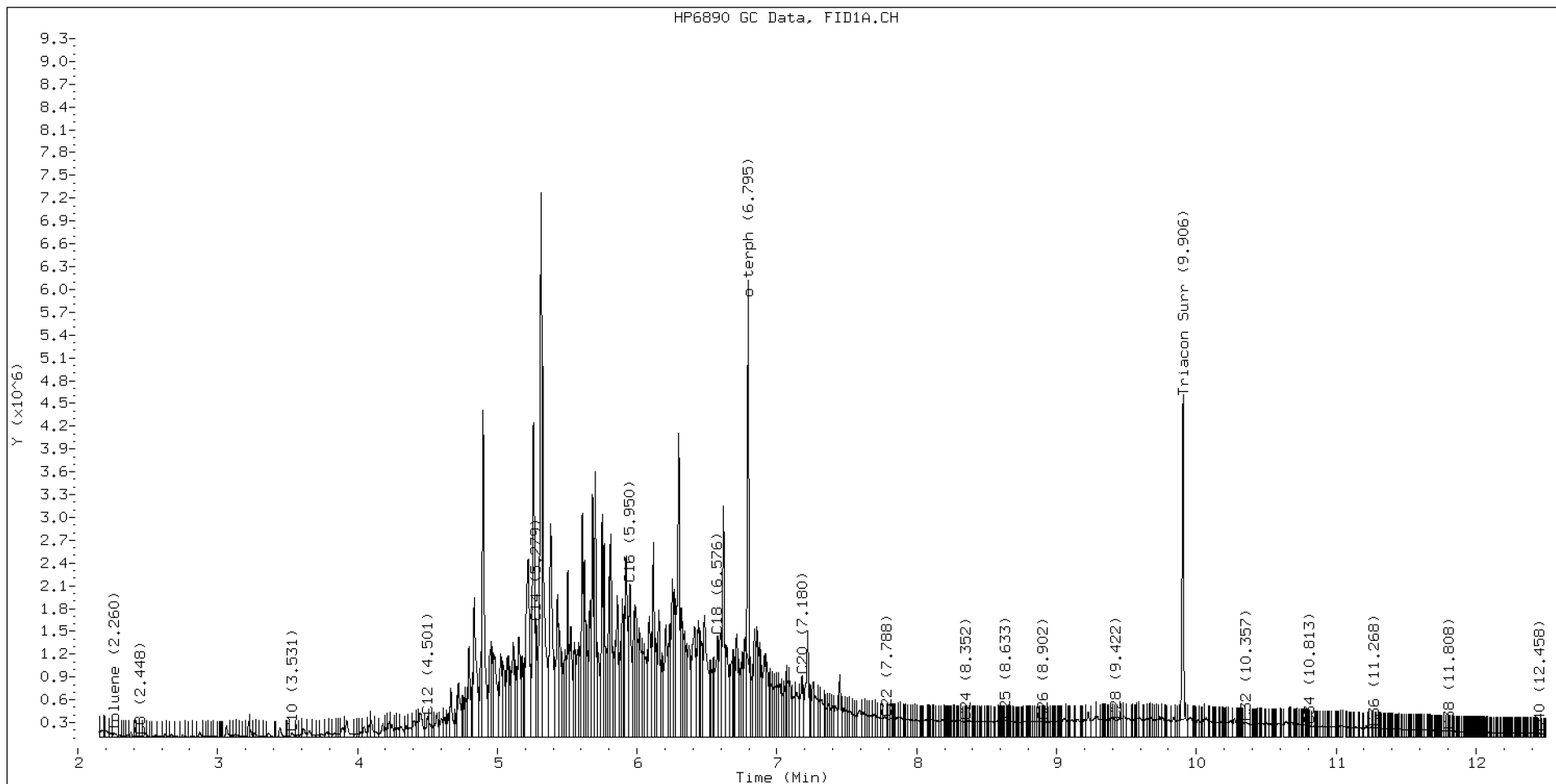
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.448	0.002	18531	17632	WATPHD	(C12-C24)	205047389	1292.5
C10	3.531	-0.007	51198	68361	WATPHM	(C24-C38)	36492354	275.2
C12	4.501	-0.005	272424	344355	AK102	(C10-C25)	212731095	1125.1
C14	5.279	-0.002	1501405	1212839	AK103	(C25-C36)	31337505	316.8
C16	5.950	-0.004	2010701	2700089	OR.DIES	(C10-C28)	224109581	1181.1
C18	6.576	-0.005	1327986	2006812				
C20	7.180	-0.008	803521	1245614	JET-A	(C10-C18)	161225404	930.9
C22	7.788	0.008	241705	155768				
C24	8.352	-0.002	211436	73676				
C25	8.633	0.002	217445	181710				
C26	8.902	-0.000	204884	51084				
C28	9.422	0.002	216032	117570				
C32	10.357	-0.013	192643	444186				
C34	10.813	0.008	148860	122924				
Filter Peak	13.986	0.006	23627	20970				
C36	11.268	0.003	124405	104460				
C38	11.808	0.008	77315	23086				
C40	12.458	-0.004	48043	38084				
o-terph	6.795	-0.015	4961616	3199519				
Triacon Surr	9.906	-0.027	4269374	3192585	NAS DIES	(C10-C24)	210566828	1116.0

Range Times: NW Diesel(4.506 - 8.353) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	3199519	15.7 M
Triacontane	3192585	18.3 M

M Indicates the peak was manually integrated

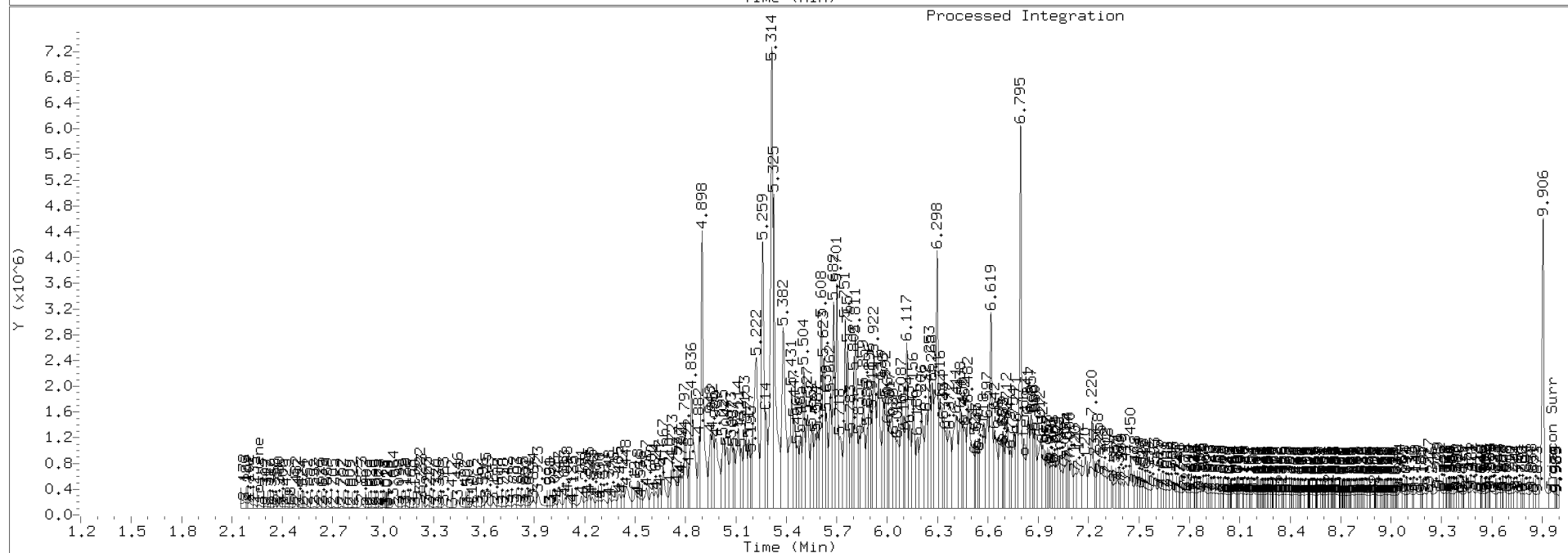
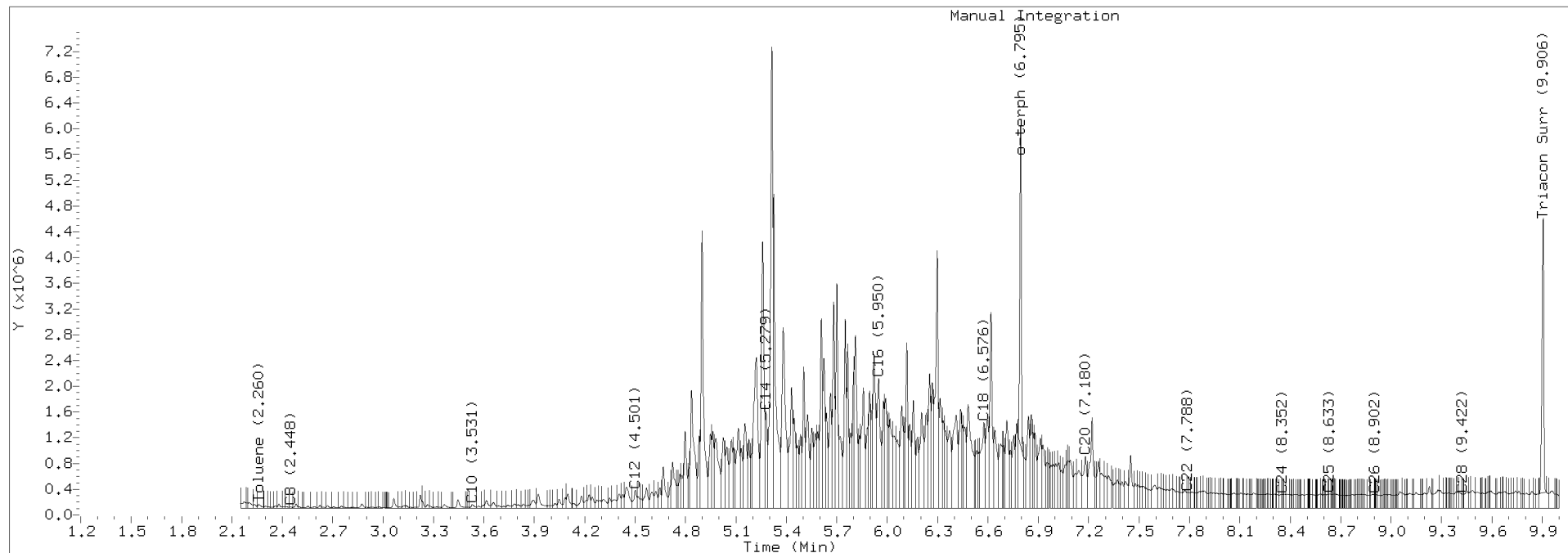
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1234.D Injection: 12-JUL-2022 22:19

Lab ID:22G0121-02





Form I
ORGANIC ANALYSIS DATA SHEET
NWTPH-Dx
TPH (Extractables) low level

Laboratory: <u>Analytical Resources, LLC</u>	Laboratory ID: <u>22G0121-03 A</u>	SDG: <u>22G0121</u>
Client: <u>GeoEngineers</u>	Prepared: <u>07/11/22 14:03</u>	File ID: <u>422G1217.D</u>
Project: <u>RG Haley Site-Bellingham</u>	Preparation: <u>EPA 3510C SepF</u>	Analyzed: <u>07/12/22 14:01</u>
Matrix: <u>Water</u>	Sequence: <u>SKG0101</u>	Initial/Final: <u>300 mL / 1 mL</u>
Sampled: <u>07/06/22 11:10</u>	Column: <u>RTX-1</u>	Calibration: <u>FA00054</u>
% Solids:		
Batch: <u>BKG0167</u>		
Instrument: <u>FID4</u>		

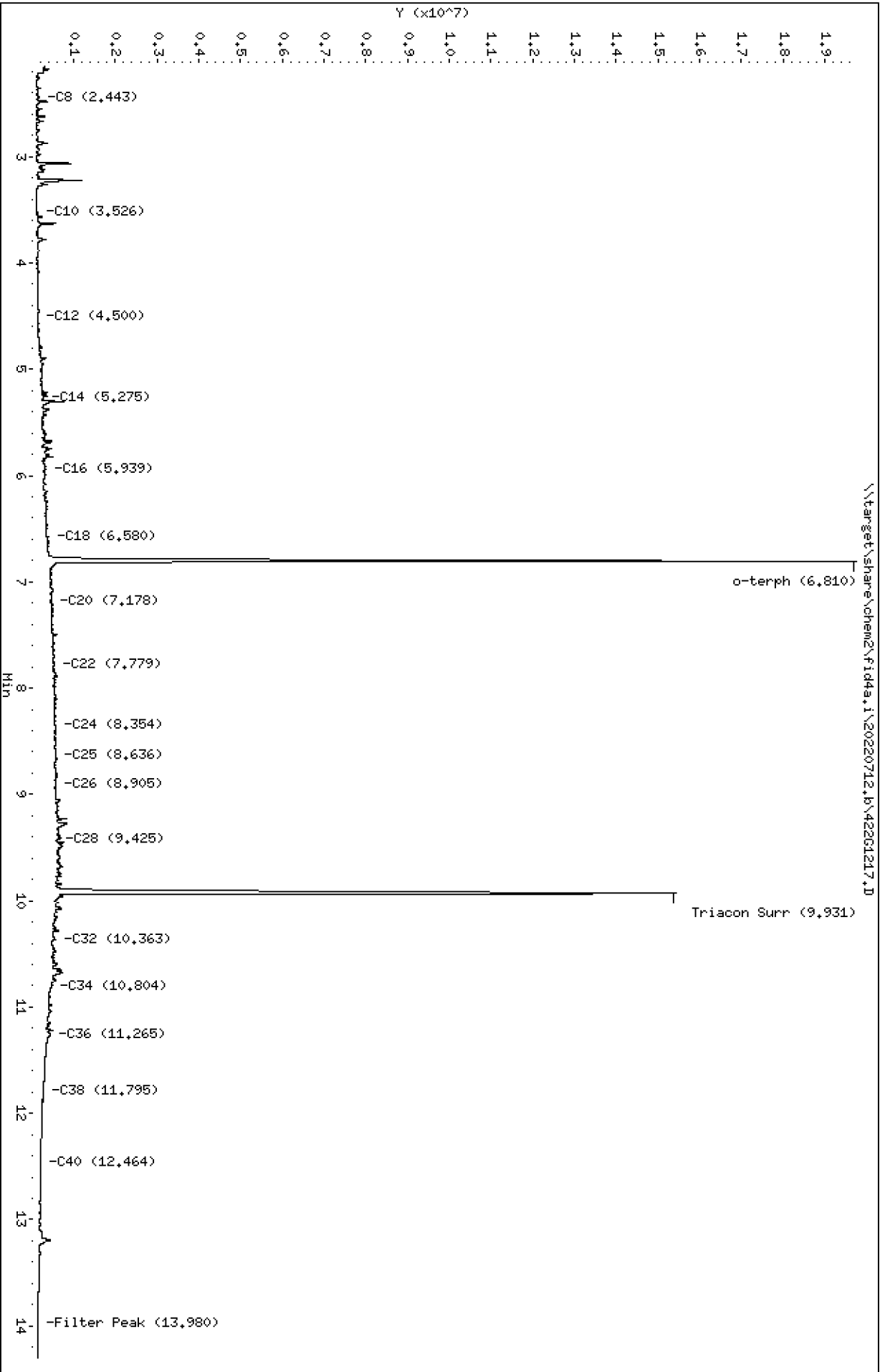
CAS NO.	COMPOUND	DILUTION	(mg/L)	Q	DL	RL
DRO	Diesel Range Organics (C12-C24)	1	1.32		0.055	0.167
RRO	Motor Oil Range Organics (C24-C38)	1	2.09		0.093	0.333

SURROGATES	ADDED:(mg/L)	(mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.37500	0.355	94.6	50 - 150	

Data File: \\target\share\chem2\fid4a,1\20220712,8\42261217.D
Date: 12-JUL-2022 14:01
Client ID:
Sample Info: 22C0121-03

Column phase: RTX-1

Instrument: fid4a,1
Operator: AA/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1217.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/12/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: 22G0121-03
Client ID:
Injection: 12-JUL-2022 14:01
Dilution Factor: 1
RT Std: 422G1203.D

FID:4A RESULTS

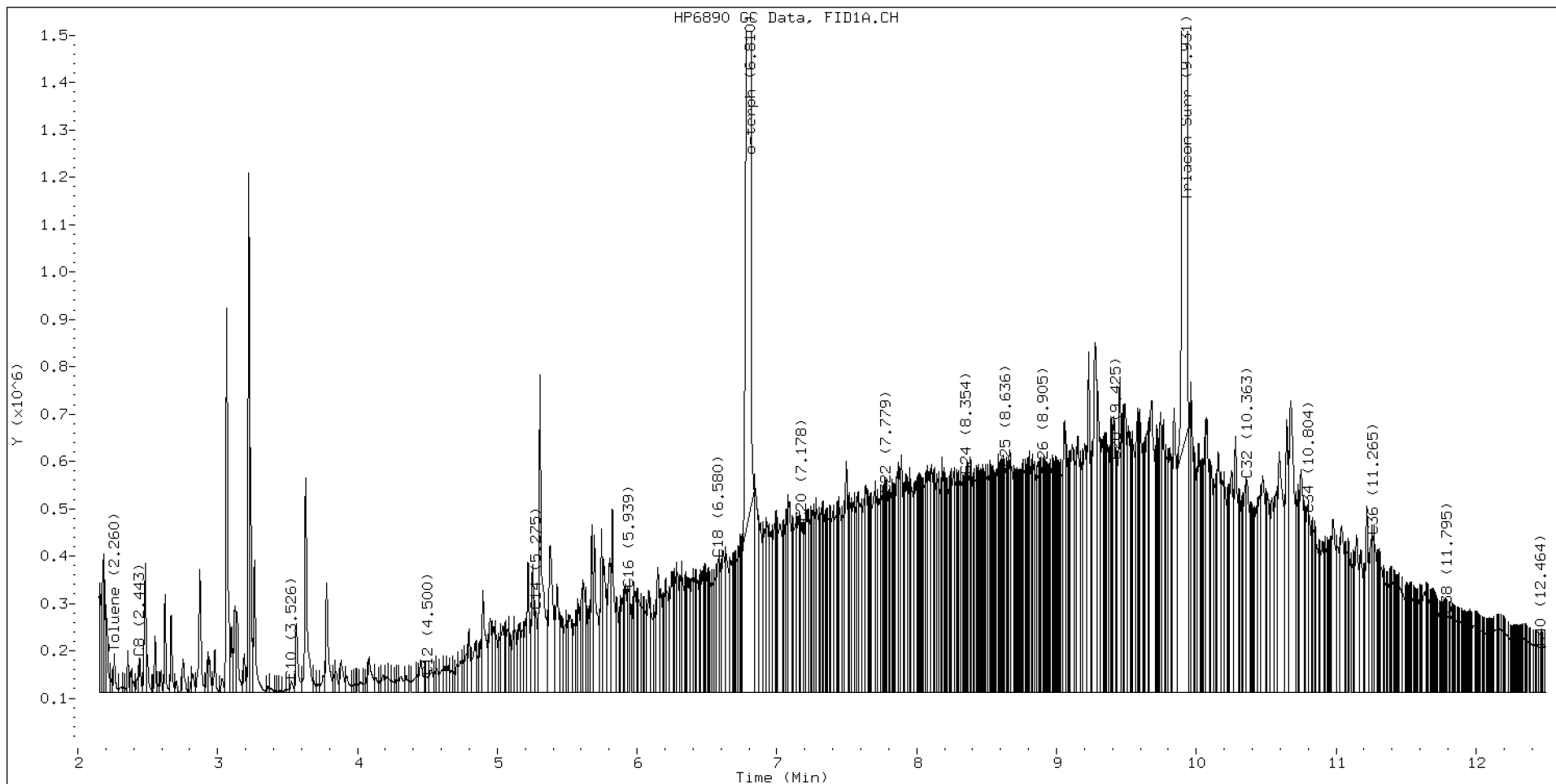
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.443	-0.001	72411	69775	WATPHD	(C12-C24)	62595286	394.6
C10	3.526	-0.012	25101	32231	WATPHM	(C24-C38)	83300307	628.3
C12	4.500	-0.007	34530	33793	AK102	(C10-C25)	69644542	368.3
C14	5.275	-0.007	171656	212717	AK103	(C25-C36)	72558151	733.6
C16	5.939	-0.016	218185	220406	OR.DIES	(C10-C28)	95291516	502.2
C18	6.580	-0.002	282595	393824				
C20	7.178	-0.011	358888	382495	JET-A	(C10-C18)	23761838	137.2
C22	7.779	-0.003	418869	166883				
C24	8.354	-0.001	459141	203806				
C25	8.636	0.004	472576	303663				
C26	8.905	0.002	468639	186581				
C28	9.425	0.005	489449	339139				
C32	10.363	-0.006	449161	846061				
C34	10.804	-0.001	375838	529888				
Filter Peak	13.980	-0.002	41383	14448				
C36	11.265	0.001	330039	243429				
C38	11.795	-0.006	163579	104386				
C40	12.464	0.004	95592	28482				
o-terph	6.810	-0.002	19259865	21671880				
Triacon Surr	9.931	-0.002	14789305	19429489	NAS DIES	(C10-C24)	65118939	345.1

Range Times: NW Diesel(4.507 - 8.354) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	21671880	106.4 M
Triacontane	19429489	111.5 M

M Indicates the peak was manually integrated

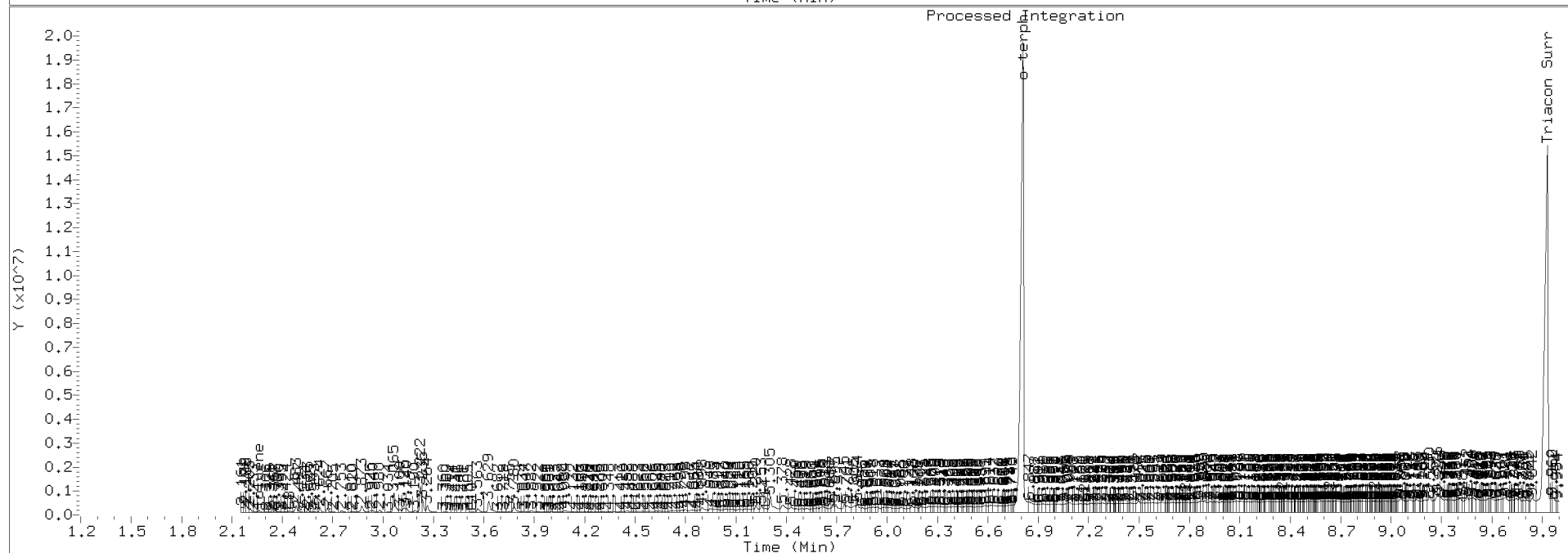
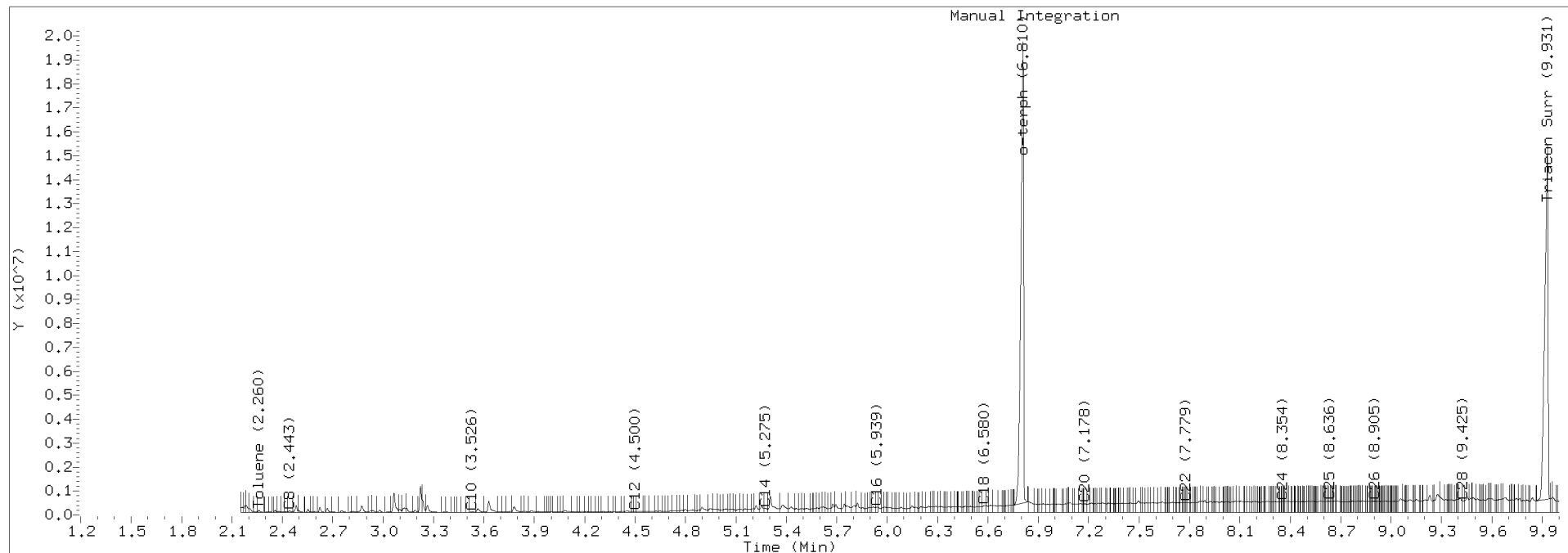
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1217.D Injection: 12-JUL-2022 14:01

Lab ID:22G0121-03





Form I
ORGANIC ANALYSIS DATA SHEET
NWTPH-Dx
TPH (Extractables) low level

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Water

Laboratory ID: 22G0121-04 A

SDG: 22G0121

Sampled: 07/06/22 11:10

Prepared: 07/11/22 14:03

File ID: 422G1218.D

% Solids:

Preparation: EPA 3510C SepF

Analyzed: 07/12/22 14:21

Batch: BKG0167

Sequence: SKG0101

Initial/Final: 75 mL / 1 mL

Instrument: FID4

Column: RTX-1

Calibration: FA00054

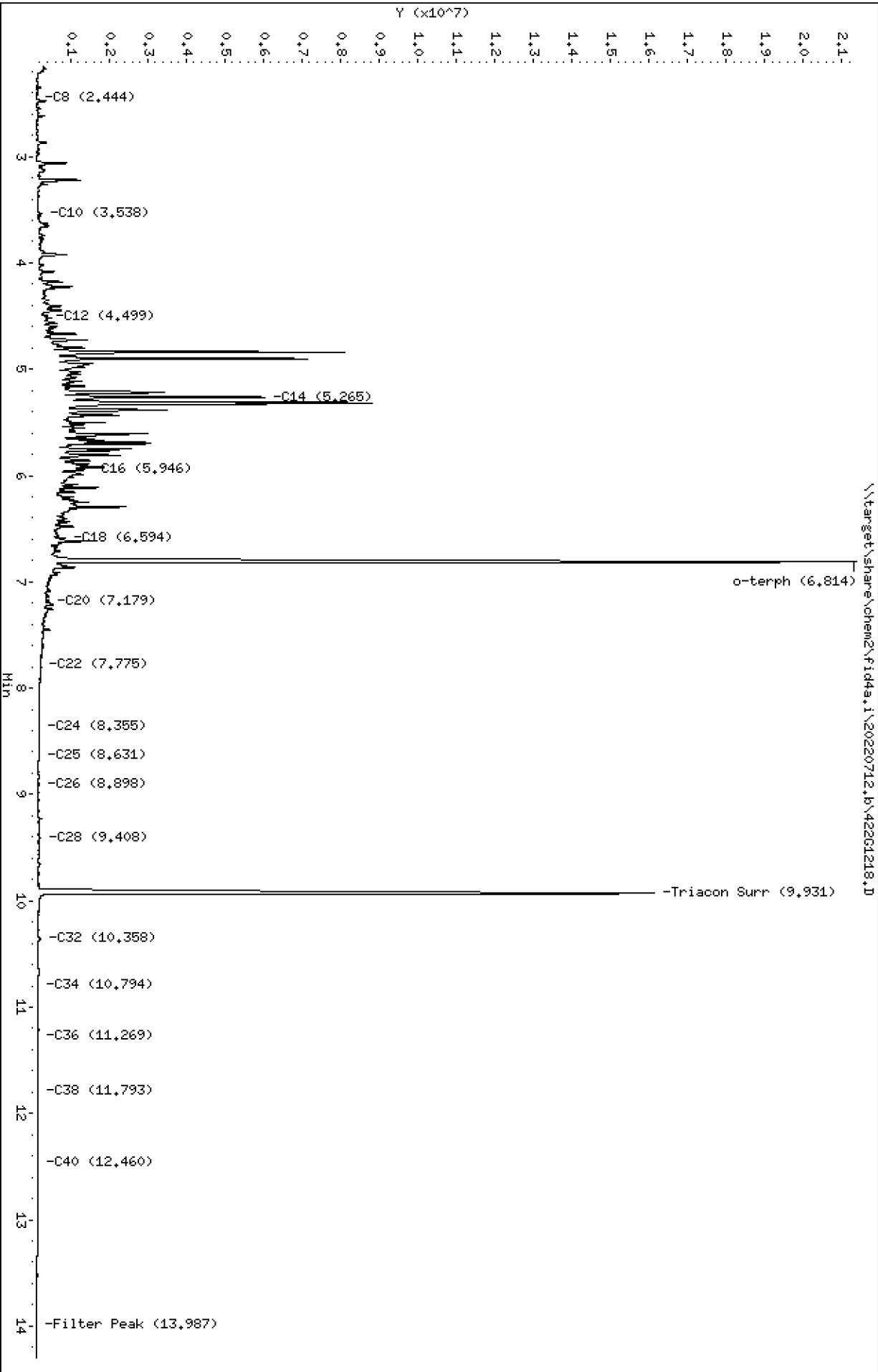
CAS NO.	COMPOUND	DILUTION	(mg/L)	Q	DL	RL
DRO	Diesel Range Organics (C12-C24)	1	13.8		0.220	0.667
RRO	Motor Oil Range Organics (C24-C38)	1	1.33	U	0.373	1.33

SURROGATES	ADDED:(mg/L)	(mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	1.5000	1.64	109	50 - 150	

Data File: \\target\share\chem2\fid4a,1\20220712.16\42261218.D
Date: 12-JUL-2022 14:21
Client ID:
Sample Info: 22C0121-04

Column phase: RTX-1

Instrument: fid4a,1
Operator: AA/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1218.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/12/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: 22G0121-04
Client ID:
Injection: 12-JUL-2022 14:21
Dilution Factor: 1
RT Std: 422G1203.D

FID:4A RESULTS

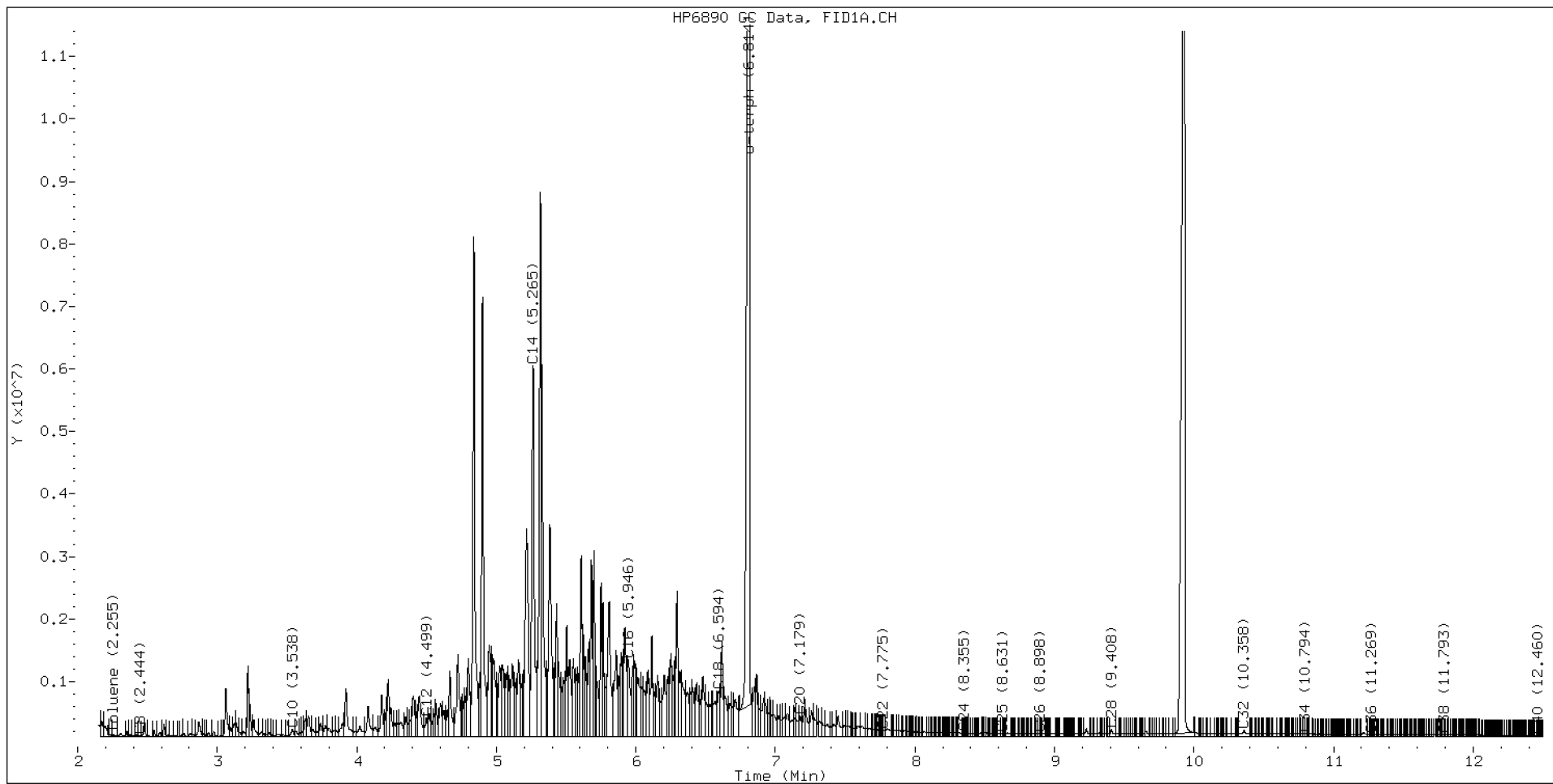
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.444	-0.001	16530	13155	WATPHD	(C12-C24)	163954892	1033.5
C10	3.538	-0.001	127643	167914	WATPHM	(C24-C38)	10074890	76.0
C12	4.499	-0.008	302566	359355	AK102	(C10-C25)	177337291	937.9
C14	5.265	-0.017	5943272	7574491	AK103	(C25-C36)	8335617	84.3
C16	5.946	-0.008	1241843	1721523	OR.DIES	(C10-C28)	180151071	949.4
C18	6.594	0.012	738975	932067				
C20	7.179	-0.010	328827	445396	JET-A	(C10-C18)	153381337	885.6
C22	7.775	-0.007	107094	92329				
C24	8.355	0.000	62517	28025				
C25	8.631	-0.001	58578	20391				
C26	8.898	-0.005	53585	18677				
C28	9.408	-0.012	120673	189920				
C32	10.358	-0.011	101948	288654				
C34	10.794	-0.011	51798	43133				
Filter Peak	13.987	0.004	14378	4292				
C36	11.269	0.004	42212	16801				
C38	11.793	-0.007	34167	16889				
C40	12.460	0.001	24265	8462				
o-terph	6.814	0.002	20773572	25018313				
Triacon Surr	9.931	-0.002	15959398	22661961	NAS DIES	(C10-C24)	176722981	936.7

Range Times: NW Diesel(4.507 - 8.354) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	25018313	122.9 M
Triacontane	22661961	130.1 M

M Indicates the peak was manually integrated

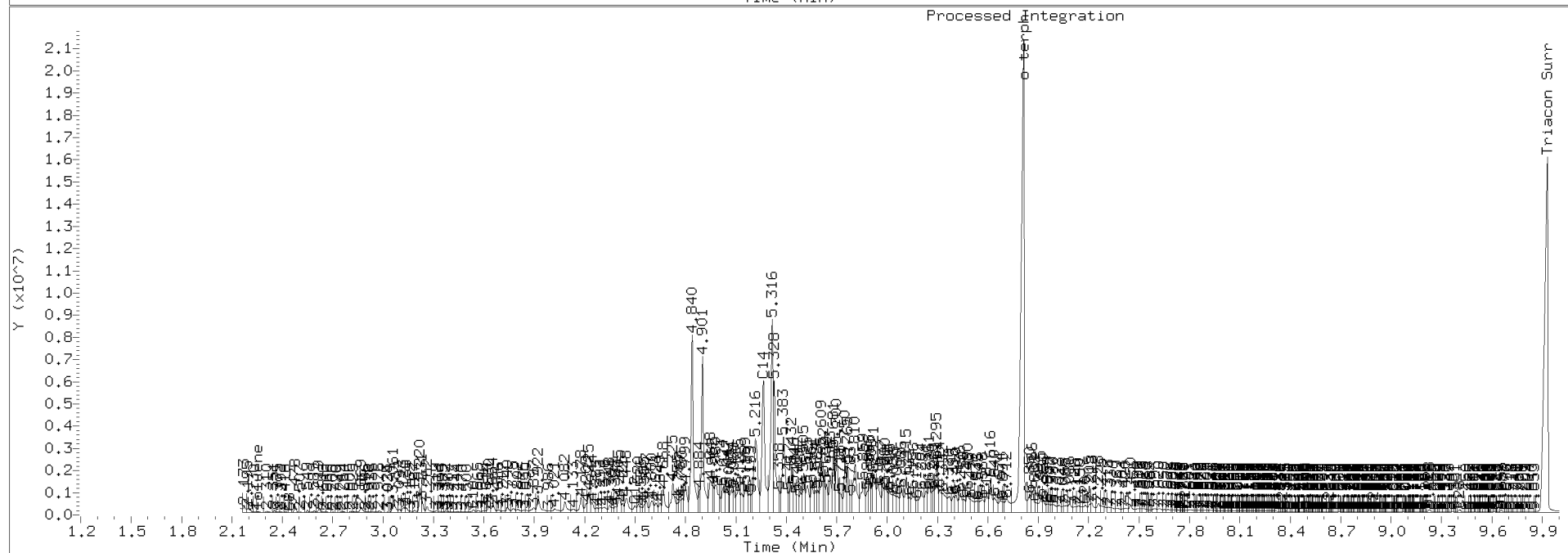
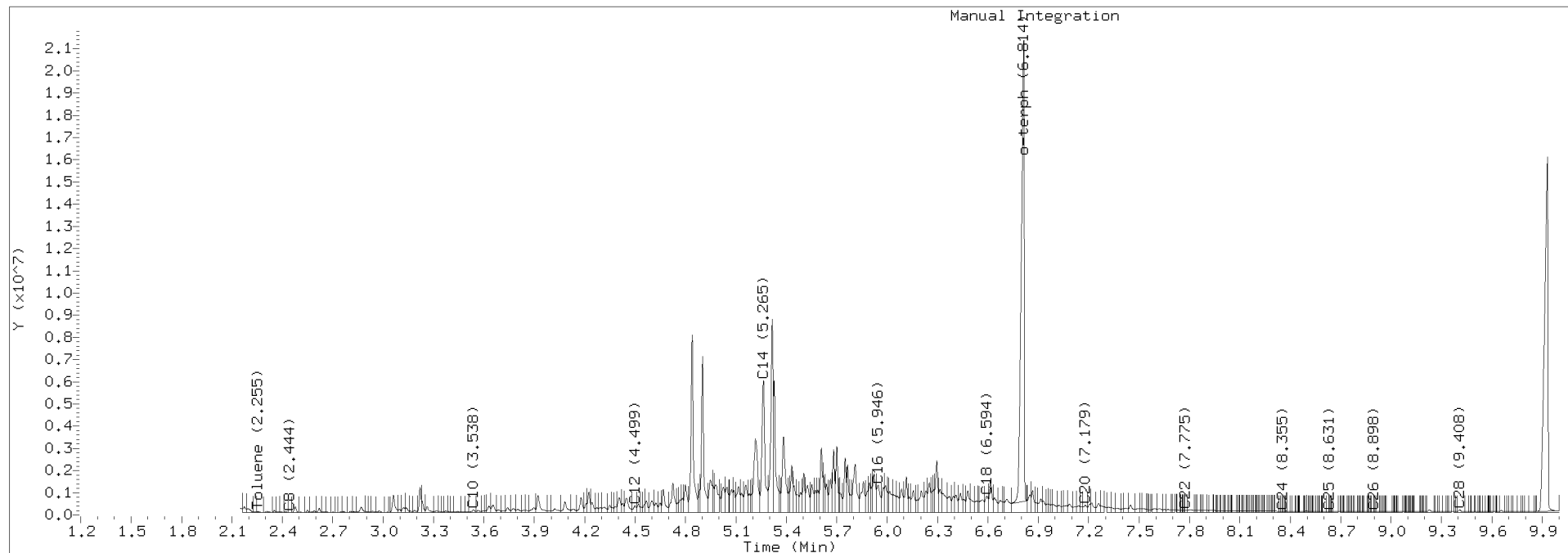
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1218.D Injection: 12-JUL-2022 14:21

Lab ID:22G0121-04





Analytical Resources, LLC
Analytical Chemists and Consultants

PREPARATION BATCH SUMMARY
NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Batch: BKG0167 Batch Matrix: Water

Preparation: EPA 3510C SepF

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Z1A-1-PW	22G0121-01	422G1215.D	07/11/22 14:03	
Z1A-4-PW	22G0121-02	422G1234.D	07/11/22 14:03	
Z1A-7-PW	22G0121-03	422G1217.D	07/11/22 14:03	
Z1A-10-PW	22G0121-04	422G1218.D	07/11/22 14:03	
Blank	BKG0167-BLK1	422G1212.D	07/11/22 14:03	
LCS	BKG0167-BS1	422G1213.D	07/11/22 14:03	
LCS Dup	BKG0167-BSD1	422G1214.D	07/11/22 14:03	



Batch: BKG0167

Prepared using: EPA 3510C SepF
TPH NW (Extractables) low level in Water

Matrix: Water Date Prepared: 7/11/22 Balance ID: _____ Set Up By: CPO 7/11/22

WO Comments
22G0121: Porewaters -Processing 6.7 L of sediment \$520. Processing 10L Sediment \$575. <G>MS/MSD</G>

The following standards may be missing from this batch!

Designator	Description
QLS 18	QLS Spike

Analysis: TPH NW (Extractables) low level

Lab Number & Container	Initial (mL) Actual	Acid Clean (1:1) (1mL) Y (N)	Silica Clean (1:1) (1mL) Y (N)	Final Effective Vol (mL)	Vol to Lab	Extraction Comments
22G0121-01 A	(500.000) <u>180</u>	(1:1) Y/N	(1:1) Y/N	1 _____	1.0 _____	
22G0121-02 A	(500.000) <u>330</u>	(1:1) Y/N	(1:1) Y/N	1 _____	1.0 _____	
22G0121-03 A	(500.000) <u>300</u>	(1:1) Y/N	(1:1) Y/N	1 _____	1.0 _____	
22G0121-04 A	(500.000) <u>075</u>	(1:1) Y/N	(1:1) Y/N	1 _____	1.0 _____	

Batch QC

Lab Number	Initial (mL) Actual	Acid Clean (1:1) (1mL) Y (N)	Silica Clean (1:1) (1mL) Y (N)	Final Effective Vol (mL)	Vol to Lab	Extraction Comments
BKG0167-BLK)	(500.000) <u>500</u>	(1:1) Y/N	(1:1) Y/N	1 _____	1.0 _____	
BKG0167-BS1	(500.000) <u>500</u>	(1:1) Y/N	(1:1) Y/N	1 _____	1.0 _____	
BKG0167-BSD1	(500.000) <u>500</u>	(1:1) Y/N	(1:1) Y/N	1 _____	1.0 _____	

*DECANT/PIPETTE OFF WATER, GET AS CLEAR OF A SAMPLE AS YOU CAN
*RECORD AMOUNT MEASURED

only use A bottles

Client ID verified By: [Signature] Date: 7/11/22 Preparation Reviewed By: [Signature] Date: 07/10/22 Extraction Date and Time: 07/11/22 14:43



Batch: BKG0167

Prepared using: EPA 3510C SepF
TPH NW (Extractables) low level in Water

WO Comments

22G0121: Potewaters -Processing 6.7 L of sediment \$520. Processing 10L Sediment \$575. <G>MS/MSD</G>

Prep Steps

Reagents Used

Surrogates & Spike Standards Used

Prep Steps	Station/Reagent	Standard ID	Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
KD 80-85°C ① 2 3 4 5 ⑥ mlb 7/12/22 Analyst/Date	Separatory Funnel		Surrogate	P K004941 Exp: 05/25/2023	100µL	Ru	SH
	1:1 Sulfuric Acid/DI H2O	K003392	1125µg/mL				
TurboVap 1 2 3 4 ⑤ JSw 7/12/22 Analyst/Date	Methylene Chloride	K004645	Spike	I1 K004939 Exp: 10/21/2022	100µL	Ru	SH
	Anhydrous Sodium Sulfate	K005218	15000µg/mL				
Vialing JSw 7/12/22 Analyst/Date	KD		(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.				
	Methylene Chloride	K004645	If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).				
	Vialing						
	Methylene Chloride	K005942					
	Concentrated Sulfuric Acid	N/A					
	0% Silica-Gel	N/A					



Batch: BKG0167

Prepared using: EPA 3510C SepF
TPH NW (Extractables) low level in Water

WO Comments

22G0121: Porewaters -Processing 6.7 L of sediment \$520. Processing 10L Sediment \$575. <G>MS/MSD</G>

Prep Instructions

SPECIAL INSTRUCTIONS:

1. Add Surr/Spk.
2. Acidify with 1 pipet of 1:1 Sulfuric Acid.
3. Check pH.
4. Extract 2X with 30mL DCM.
5. KD at 80°.
6. TurboVap.
7. Acid/Silica Clean-ups? Y/ N
8. Vial in DCM.

Archive: Y/ N



Extraction Parameter: TPHD Extraction Batch BK 60167

Total Solids Batch: N/A Work Order(s): 2260121

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input checked="" type="checkbox"/> Turbid/Color= <u>121-01-Q1 lt Turbid + gray</u>	<u>R 7/11/22</u>
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input checked="" type="checkbox"/> Emulsions (%)= <u>121-Q2 & Q3 100% emulsion: centrifuged to clear w/ sulfate</u>	<u>R 7/11/22</u>
<input checked="" type="checkbox"/> Oily, obvious fuel/sulfur odors= <u>strong fuel odor</u>	<u>R 7/11/22</u>
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input checked="" type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<u>All samples low volume; see Bench sheet</u>	
<u>* 121-Q2 about 40-50% of extracts lost while centrifuging and pouring through</u>	
	<u>R 7/11/22</u> <u>Sit 7/11/22</u>
<input type="checkbox"/> Share Samples Y / N	
<input type="checkbox"/> Multiple Jars Y / N	
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



Form I
METHOD BLANK DATA SHEET
NWTPH-Dx

Blank

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>BKG0167-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>07/11/22 14:03</u>
Solids:		Preparation:	<u>EPA 3510C SepF</u>
Batch:	<u>BKG0167</u>	Sequence:	<u>SKG0101</u>
Instrument:	<u>FID4</u>	Column:	<u>RTX-1</u>
		File ID:	<u>422G1212.D</u>
		Analyzed:	<u>07/12/22 12:21</u>
		Initial/Final:	<u>500 mL / 1 mL</u>
		Calibration:	<u>FA00054</u>

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	Q	DL	RL
DRO	Diesel Range Organics (C12-C24)	1	0.100	U	0.033	0.100
RRO	Motor Oil Range Organics (C24-C38)	1	0.200	U	0.056	0.200
SURROGATES		ADDED (mg/L)	CONC. (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl		0.22500	0.251	112	50 - 150	

Data File: \\target\share\chem2\fid4a,1\20220712,8\42261212.D

Date: 12-JUL-2022 12:21

Client ID:

Sample Info: BK00167-BLK1

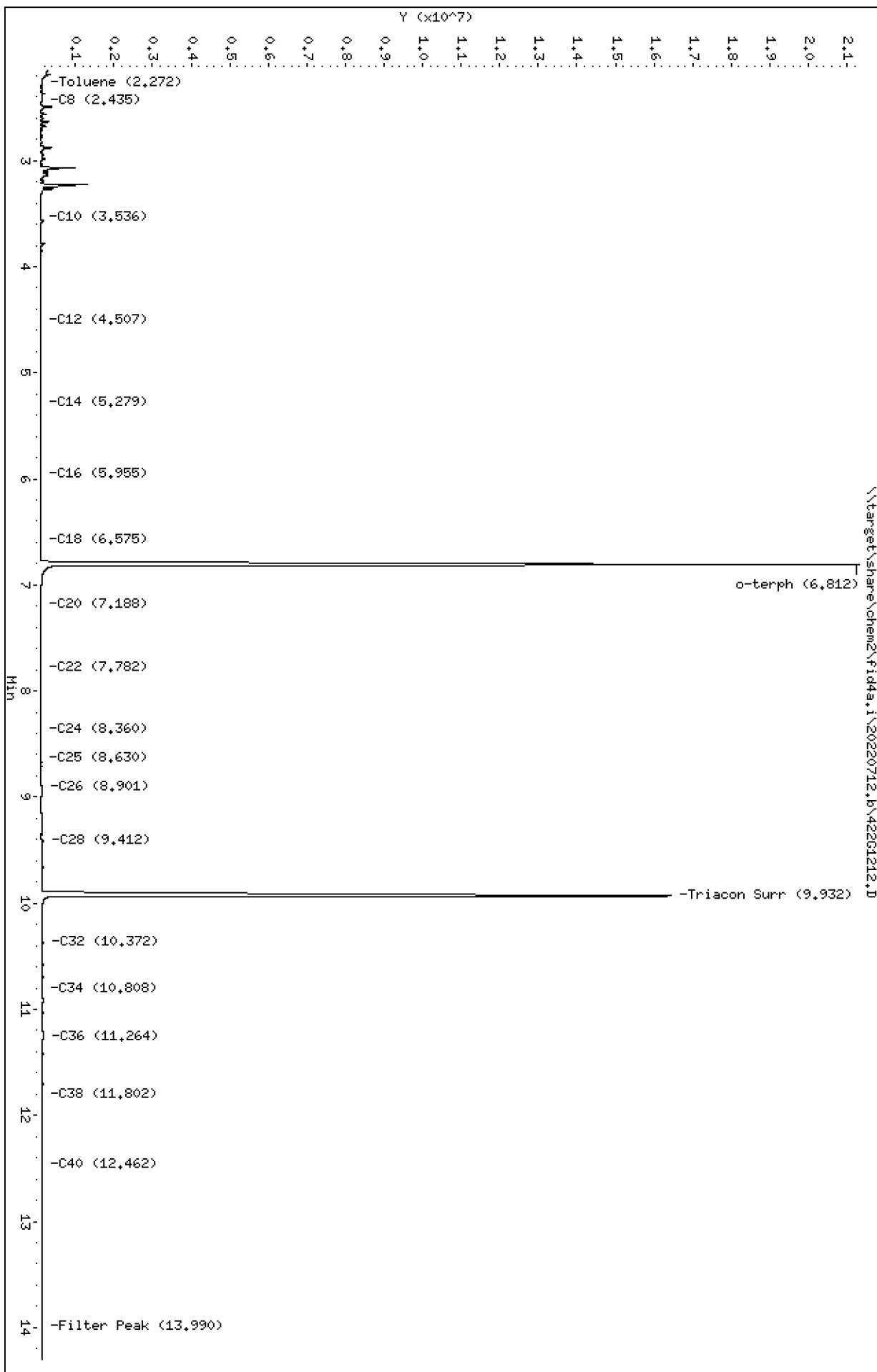
Column phase: RTX-1

Instrument: fid4a,1

Operator: AA/JGR

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1212.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/12/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: BKG0167-BLK1
Client ID:
Injection: 12-JUL-2022 12:21
Dilution Factor: 1
RT Std: 422G1203.D

FID:4A RESULTS

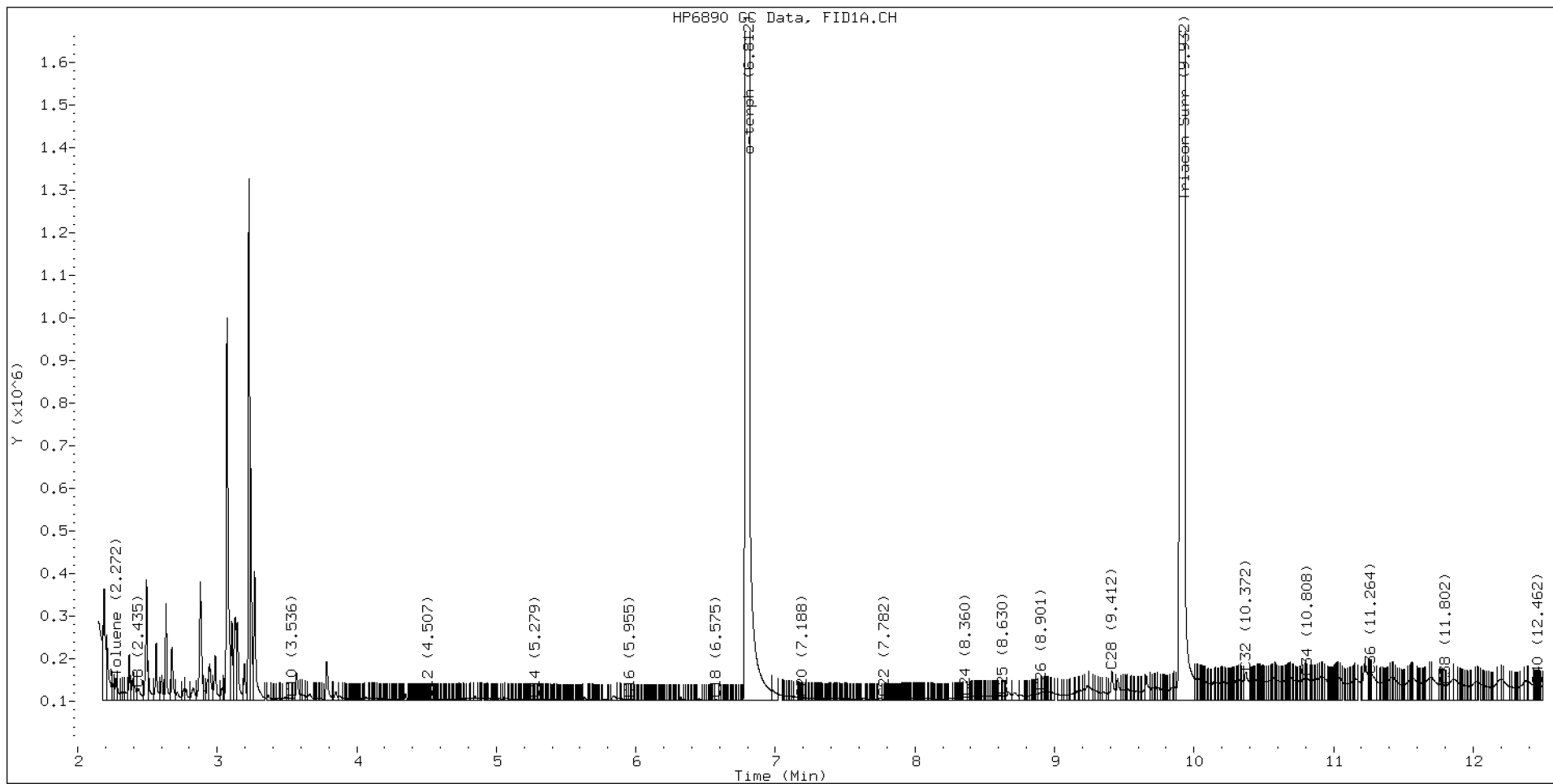
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.435	-0.010	28188	48324	WATPHD	(C12-C24)	747727	4.7
C10	3.536	-0.002	5964	3398	WATPHM	(C24-C38)	6634480	50.0
C12	4.507	0.000	2980	1024	AK102	(C10-C25)	1334480	7.1
C14	5.279	-0.003	2600	657	AK103	(C25-C36)	5192398	52.5
C16	5.955	0.000	1749	1245	OR.DIES	(C10-C28)	2311962	12.2
C18	6.575	-0.007	3185	3001				
C20	7.188	-0.001	6372	1264	JET-A	(C10-C18)	772430	4.5
C22	7.782	0.000	4097	2131				
C24	8.360	0.005	8833	14473				
C25	8.630	-0.002	10905	9496				
C26	8.901	-0.002	18767	22838				
C28	9.412	-0.008	68767	107143				
C32	10.372	0.003	67003	146798				
C34	10.808	0.003	53088	28507				
Filter Peak	13.990	0.008	21998	18367				
C36	11.264	-0.001	59374	26343				
C38	11.802	0.002	35194	15667				
C40	12.462	0.003	35228	22627				
o-terph	6.812	0.000	21213934	25587839				
Triacon Surr	9.932	-0.002	16323376	23311019	NAS DIES	(C10-C24)	1225185	6.5

Range Times: NW Diesel(4.507 - 8.354) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	25587839	125.7
Triacontane	23311019	133.8

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022





LCS / LCS DUPLICATE RECOVERY
NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Water

Analyzed: 07/12/22 12:41

Batch: BKG0167

Laboratory ID: BKG0167-BS1

Preparation: EPA 3510C SepF

Sequence Name: LCS

Initial/Final: 500 mL / 1 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	Q	LCS % REC. #	QC LIMITS REC.
Diesel Range Organics (C12-C24)	3.00	2.74		91.2	56 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Diesel Range Organics (C12-C24)	3.00	2.97		98.9	8.05	30	56 - 120

* Indicates values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220712,8\42261213.D

Date: 12-JUL-2022 12:41

Client ID:

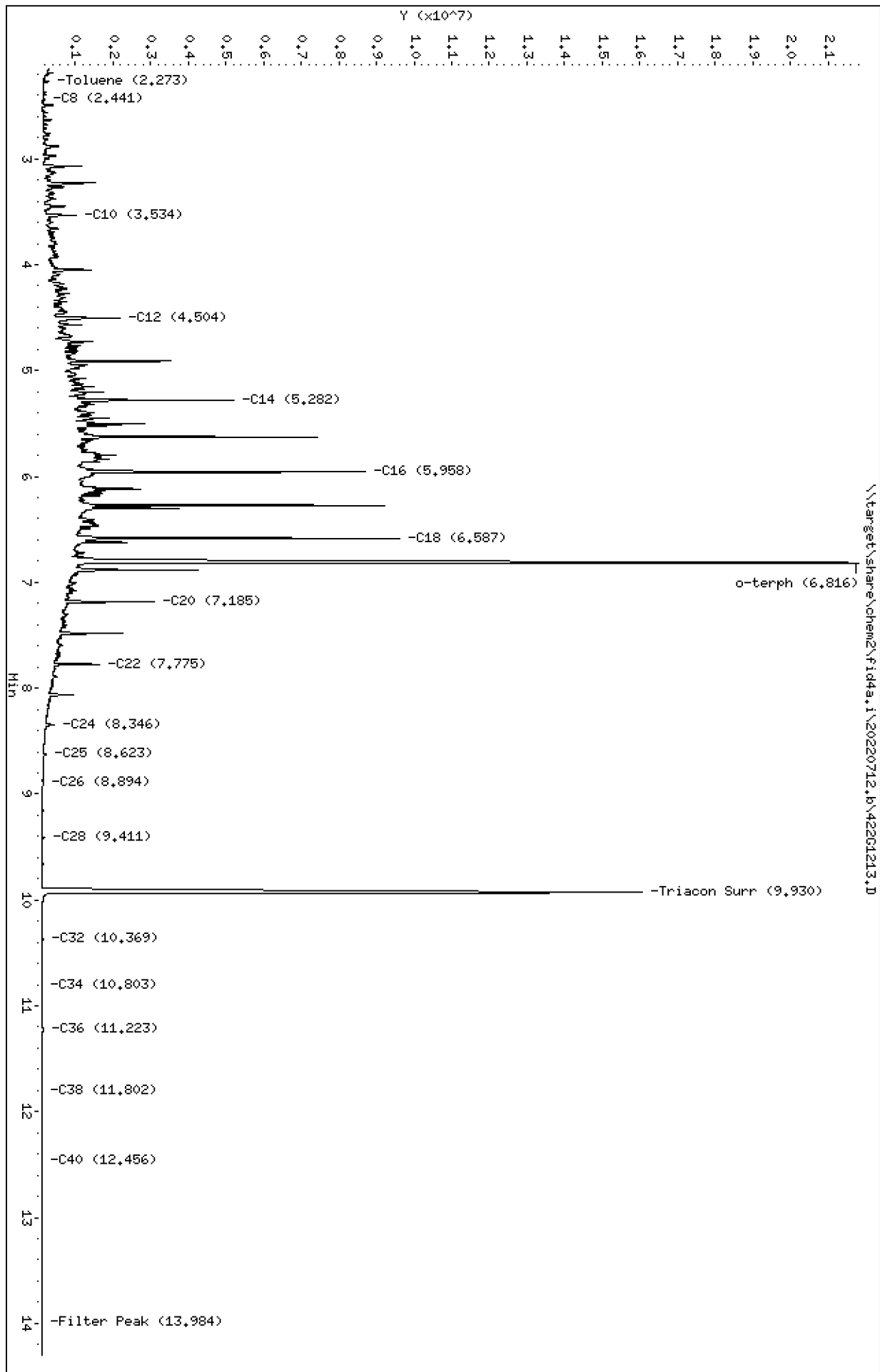
Sample Info: BK00167-BS1

Column phase: RTX-1

Instrument: fid4a,1

Operator: AA/JGR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1213.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/12/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: BKG0167-BS1
Client ID:
Injection: 12-JUL-2022 12:41
Dilution Factor: 1
RT Std: 422G1203.D

FID:4A RESULTS

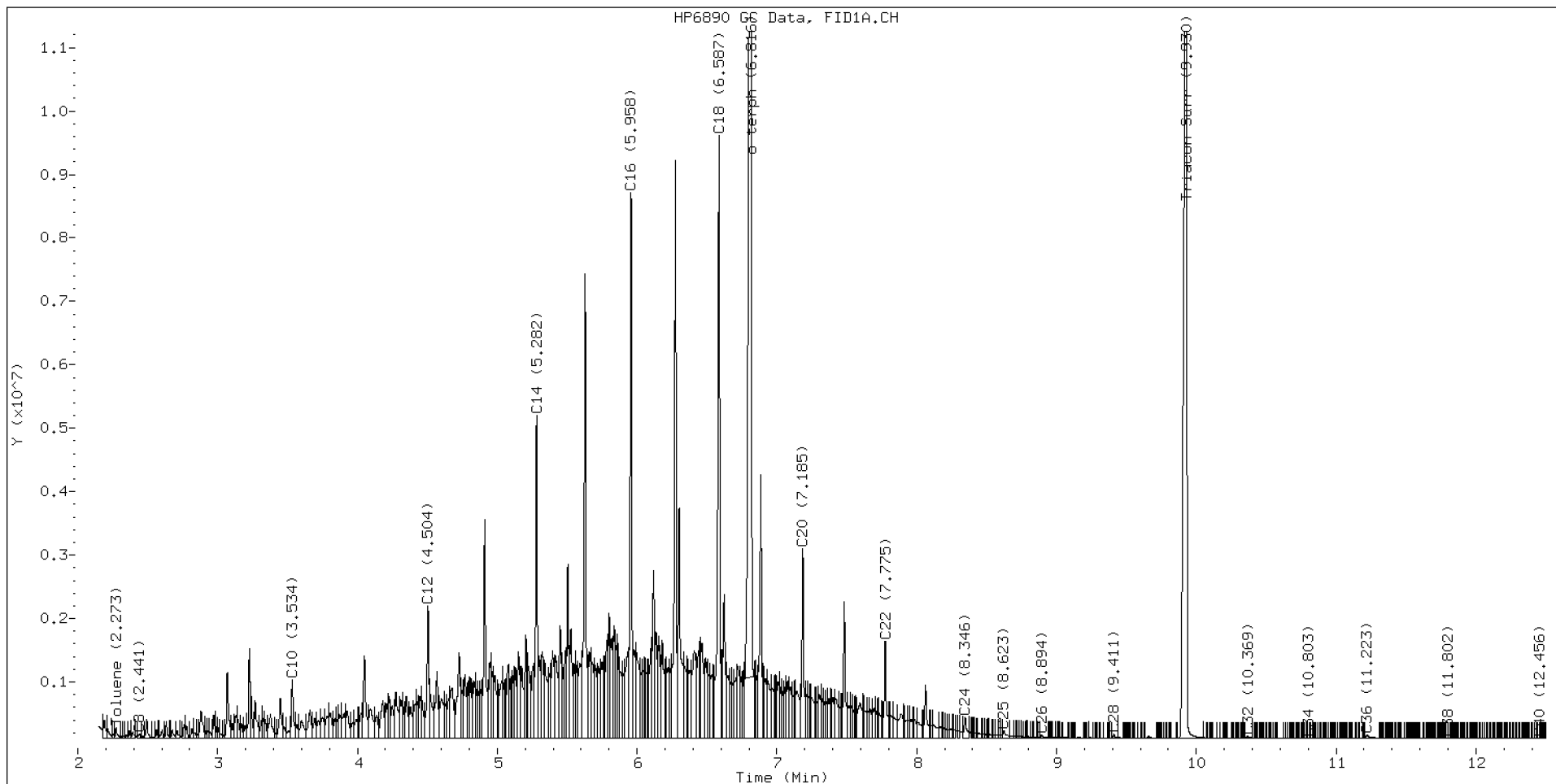
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.441	-0.003	71564	76521	WATPHD	(C12-C24)	217029457	1368.1
C10	3.534	-0.005	920264	961377	WATPHM	(C24-C38)	2499873	18.9
C12	4.504	-0.003	2079108	2159334	AK102	(C10-C25)	241823846	1279.0
C14	5.282	-0.000	5091874	4266428	AK103	(C25-C36)	1659287	16.8
C16	5.958	0.003	8597368	7144341	OR.DIES	(C10-C28)	242858289	1279.9
C18	6.587	0.005	9504933	9224362				
C20	7.185	-0.003	2996482	2878724	JET-A	(C10-C18)	182102688	1051.4
C22	7.775	-0.007	1527845	1716192				
C24	8.346	-0.008	337870	424560				
C25	8.623	-0.008	124715	203167				
C26	8.894	-0.008	48417	85276				
C28	9.411	-0.009	62529	64131				
C32	10.369	-0.001	30806	49627				
C34	10.803	-0.003	6620	4771				
Filter Peak	13.984	0.001	4428	3635				
C36	11.223	-0.042	48727	113972				
C38	11.802	0.002	7718	2650				
C40	12.456	-0.003	6488	1926				
o-terph	6.816	0.004	20739633	25082082				
Triacon Surr	9.930	-0.003	15942740	22266228	NAS DIES	(C10-C24)	241204940	1278.4

Range Times: NW Diesel(4.507 - 8.354) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	25082082	123.2 M
Triacotane	22266228	127.8

M Indicates the peak was manually integrated

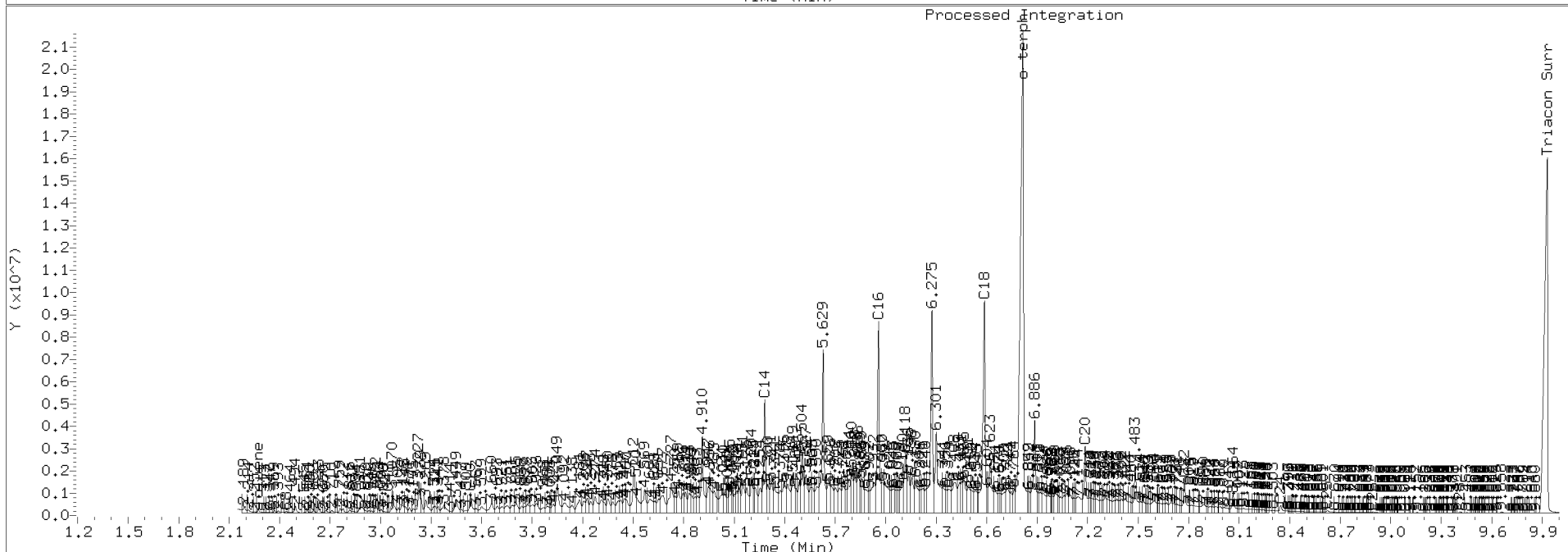
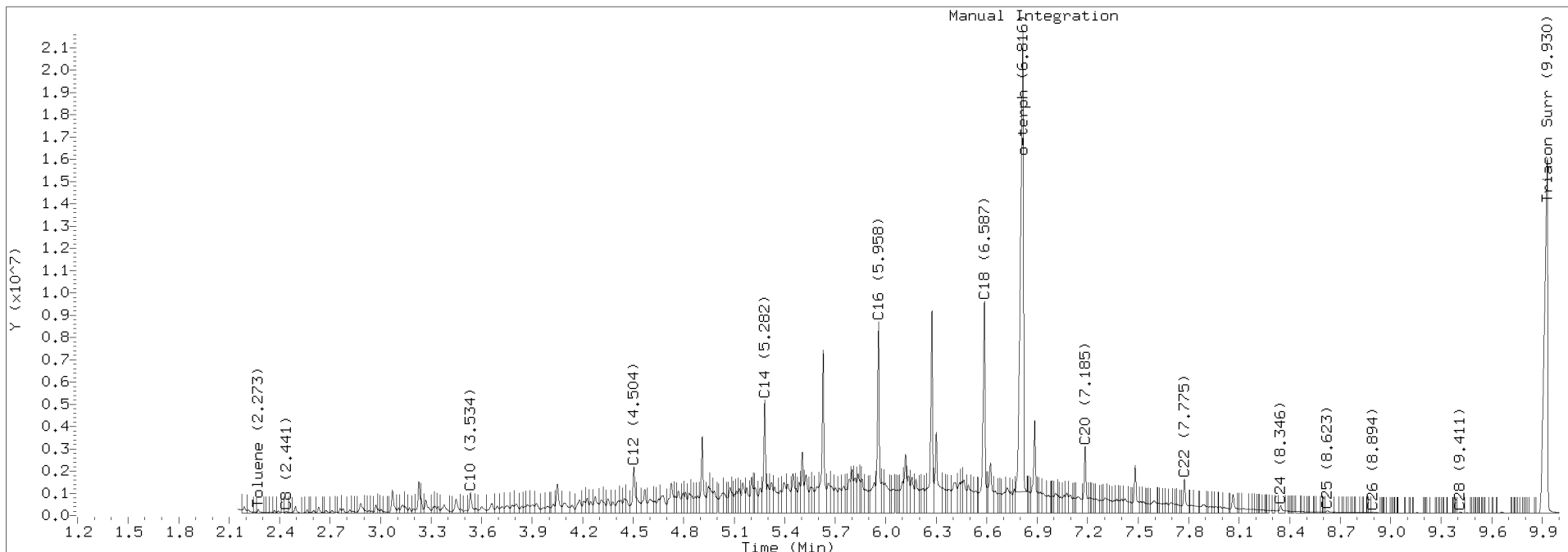
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1213.D Injection: 12-JUL-2022 12:41

Lab ID: BKG0167-BS1



Data File: \\target\share\chem2\fid4a,1\20220712,8\42261214.D

Date: 12-JUL-2022 13:01

Client ID:

Sample Info: BK00167-BSM1

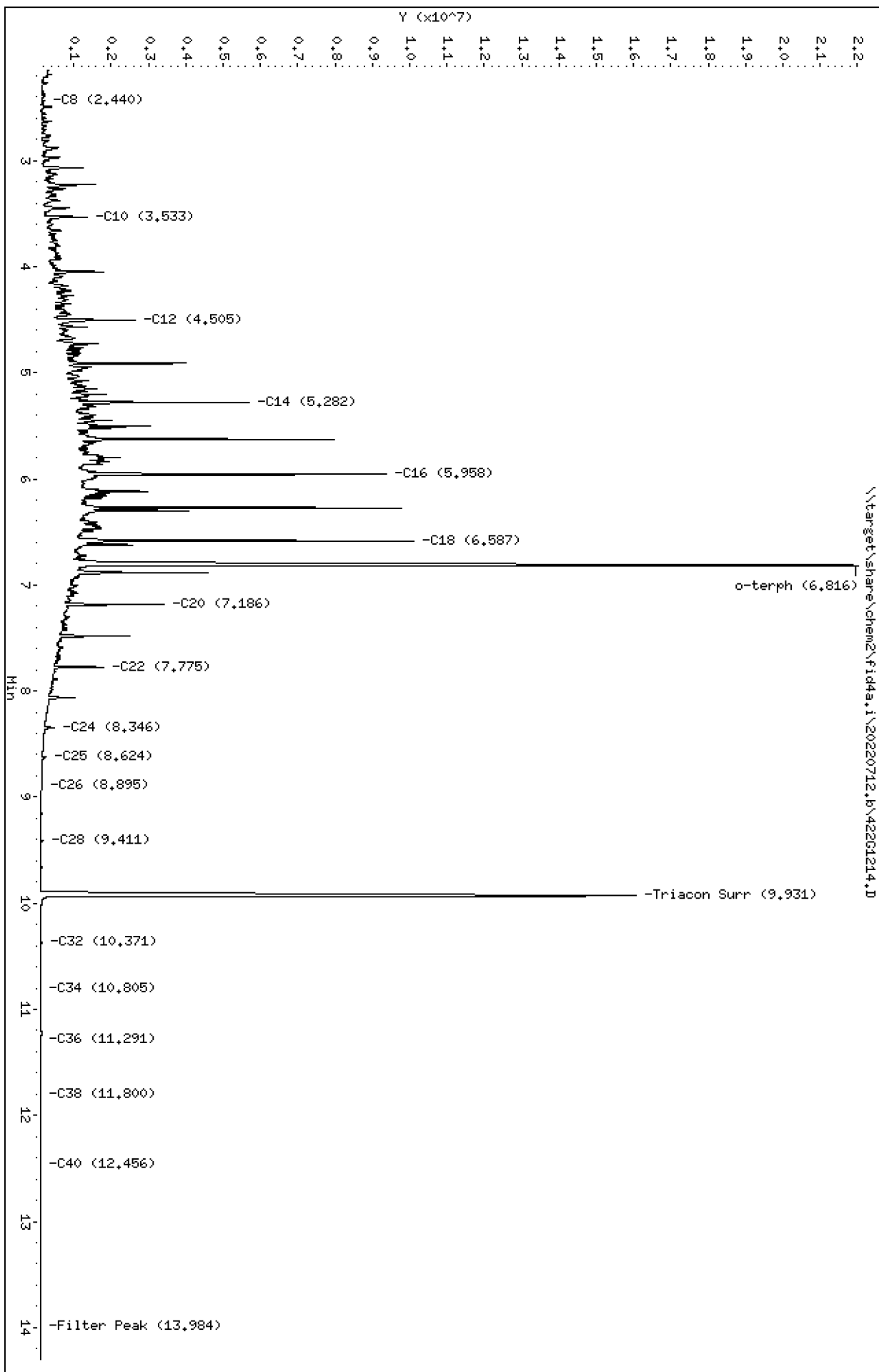
Column phase: RTX-1

Instrument: fid4a,1

Operator: AA/JGR

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1214.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/12/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: BKG0167-BSD1
Client ID:
Injection: 12-JUL-2022 13:01
Dilution Factor: 1
RT Std: 422G1203.D

FID:4A RESULTS

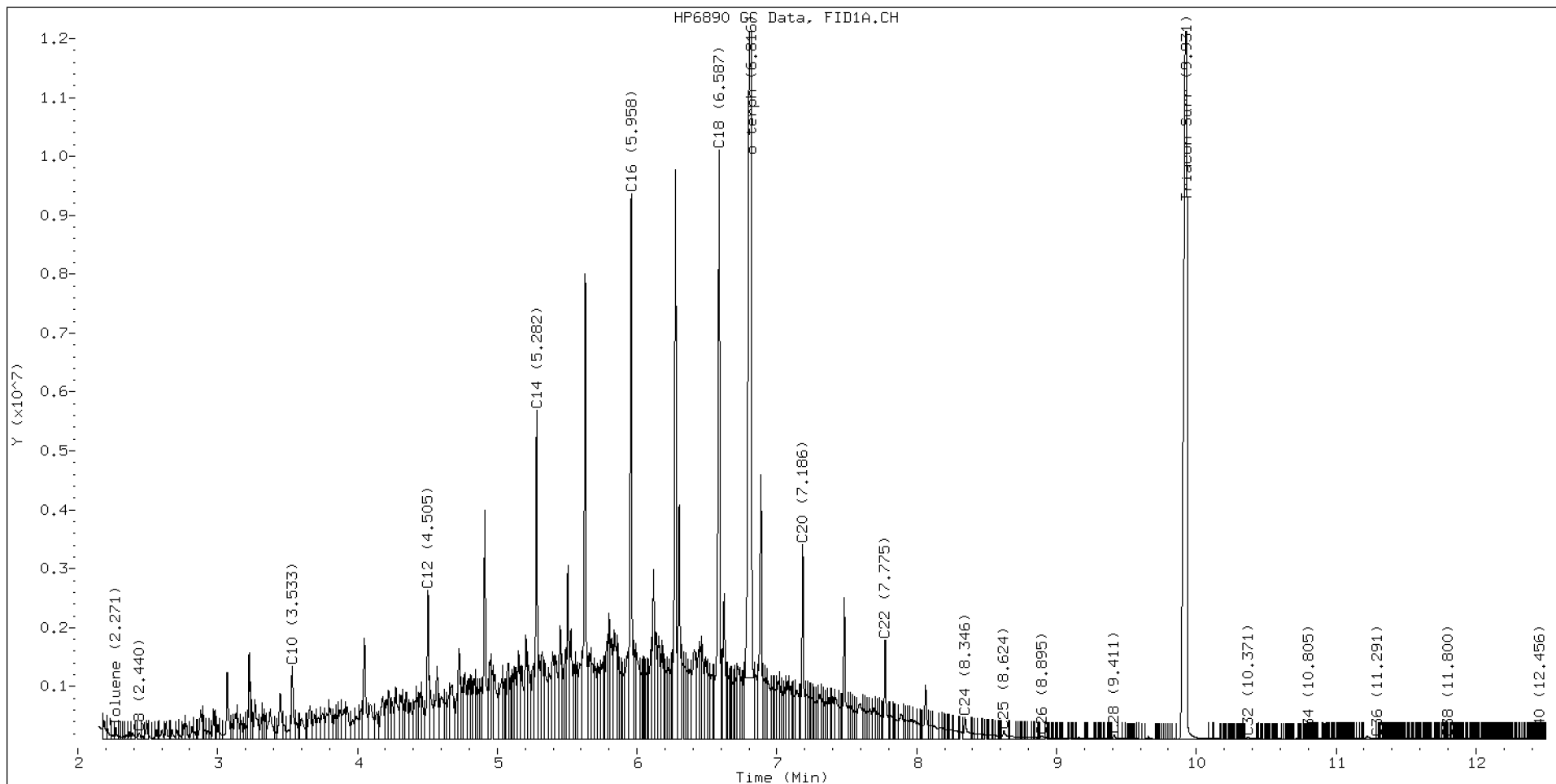
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.440	-0.005	93629	96925	WATPHD	(C12-C24)	235245634	1482.9
C10	3.533	-0.006	1232047	1306568	WATPHM	(C24-C38)	2469724	18.6
C12	4.505	-0.002	2521233	2581505	AK102	(C10-C25)	266112782	1407.4
C14	5.282	0.000	5583666	4593347	AK103	(C25-C36)	1609499	16.3
C16	5.958	0.004	9263692	7763967	OR.DIES	(C10-C28)	267261251	1408.5
C18	6.587	0.005	9998347	10043877				
C20	7.186	-0.003	3296828	3119459	JET-A	(C10-C18)	200991302	1160.5
C22	7.775	-0.007	1675903	1714988				
C24	8.346	-0.008	367357	584272				
C25	8.624	-0.008	136130	218309				
C26	8.895	-0.008	54686	76056				
C28	9.411	-0.009	64659	66294				
C32	10.371	0.001	29038	51090				
C34	10.805	-0.001	4490	2345				
Filter Peak	13.984	0.001	3966	1754				
C36	11.291	0.027	6898	4681				
C38	11.800	-0.001	6127	2406				
C40	12.456	-0.003	5234	2818				
o-terph	6.816	0.004	20872184	25474997				
Triacon Surr	9.931	-0.002	15972918	22577595	NAS DIES	(C10-C24)	265437121	1406.9

Range Times: NW Diesel(4.507 - 8.354) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	25474997	125.1 M
Triacontane	22577595	129.6

M Indicates the peak was manually integrated

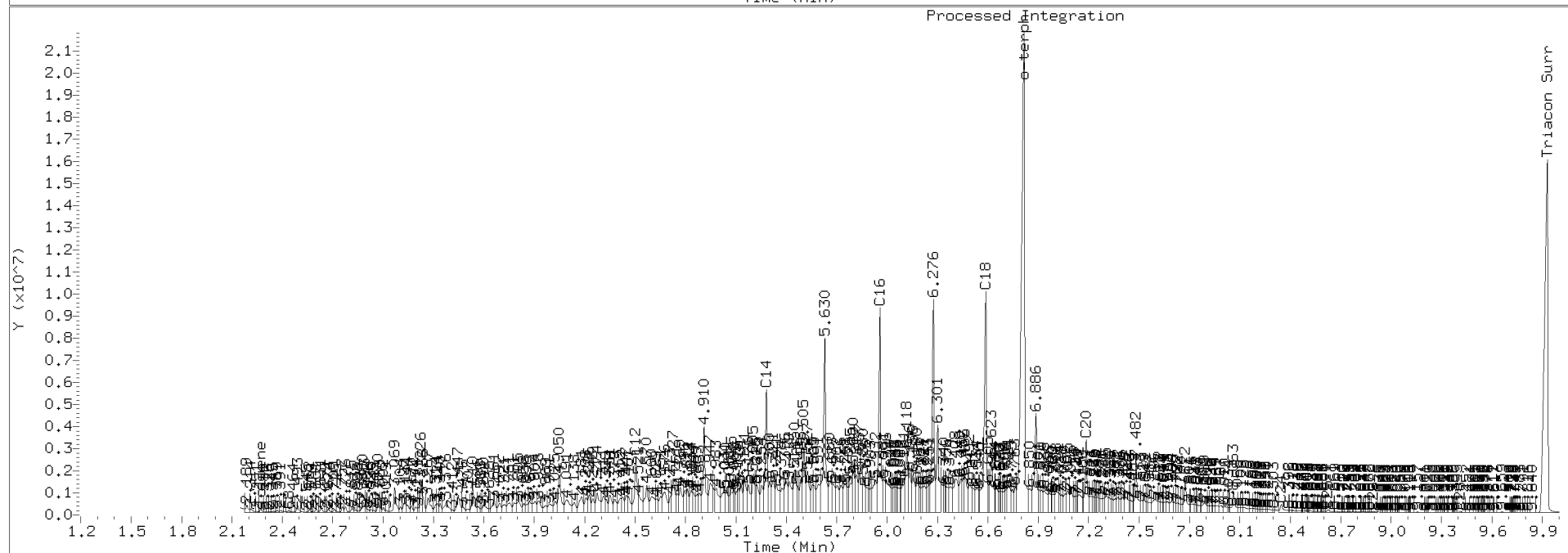
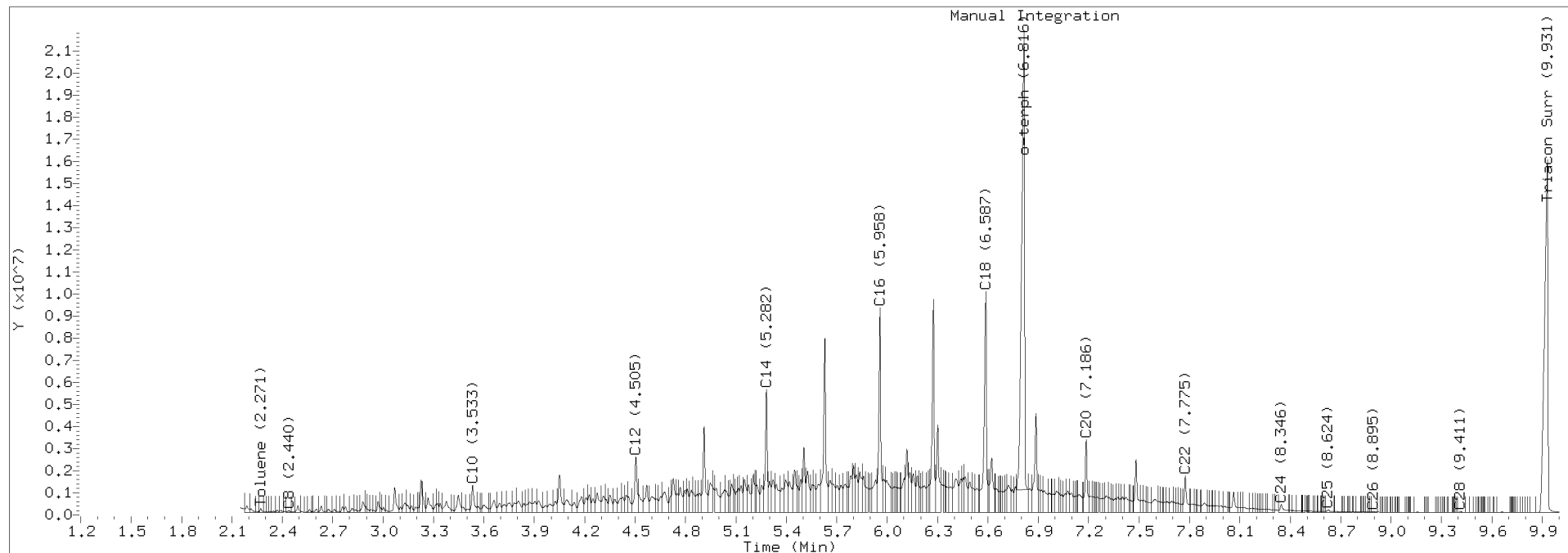
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1214.D Injection: 12-JUL-2022 13:01

Lab ID: BKG0167-BSD1





Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

NWTPH-Dx

Laboratory:	Analytical Resources, LLC	SDG:	22G0121
Client:	GeoEngineers	Project:	RG Haley Site-Bellingham
Calibration:	FA00013	Instrument:	FID4
Calibration Date:	01/06/2022	Column (1):	RTX-1

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Diesel Range Organics (C12-C24)	50	160575.1	100	136615.5	250	143411.5	500	148339.3	1000	143059.6	2500	142502.3



INITIAL CALIBRATION DATA
NWTPH-Dx

Laboratory:	Analytical Resources, LLC	SDG:	22G0121
Client:	GeoEngineers	Project:	RG Haley Site-Bellingham
Calibration:	FA00013	Instrument:	FID4
Calibration Date:	01/06/2022	Column (1):	RTX-1

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Motor Oil Range Organics (C24-C38)	100	144183.9	250	135640.8	500	130722.5	1000	129320.4	2500	129779.6	5000	125827.6



Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA
NWTPH-Dx

Laboratory:	Analytical Resources, LLC	SDG:	22G0121
Client:	GeoEngineers	Project:	RG Haley Site-Bellingham
Calibration:	FA00013	Instrument:	FID4
Calibration Date:	01/06/2022	Column (1):	RTX-1

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Diesel Range Organics (C12-C24)	145750.5	5.6			RSD (20)	
Motor Oil Range Organics (C24-C38)	132579.1	4.9			RSD (20)	



ANALYSIS SEQUENCE

SKA0028

Instrument: FID4
Calibration ID: FA00013

Printed: 1/7/2022 6:12:45PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKA0028-IBL1	QC		1		J002430			
SKA0028-IBL2	QC		2		J012751			
SKA0028-CAL1	QC		3		K000192			
SKA0028-CAL2	QC		4		K000193			
SKA0028-CAL3	QC		5		K000194			
SKA0028-CAL4	QC		6		K000195			
SKA0028-CAL5	QC		7		K000196			
SKA0028-CAL6	QC		8		J012752			
SKA0028-CAL7	QC		9		J011839			
SKA0028-CAL8	QC		10		J011838			
SKA0028-CAL9	QC		11		J011837			
SKA0028-CALA	QC		12		J011836			
SKA0028-CALB	QC		13		J011835			
SKA0028-CALC	QC		14		J010293			
SKA0028-SCV1	QC		15		J009677			
SKA0028-SCV2	QC		16		J012167			
SKA0028-CALD	QC		17		J012178			
SKA0028-CALE	QC		18		J012179			
SKA0028-CALF	QC		19		J012180			
SKA0028-CALG	QC		20		J012181			
SKA0028-CALH	QC		21		J012182			

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____



ANALYSIS SEQUENCE

SKA0028

Instrument: FID4
Calibration ID: FA00013

Printed: 1/7/2022 6:12:45PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKA0028-CALI	QC		22		J009013			
SKA0028-SCV3	QC		23		J012184			

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - fid4a.i\20220106.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	06-JAN-2022	09:20	422A0601.D	1	RINSE	
2	06-JAN-2022	09:40	422A0602.D	1	RINSE	
3	06-JAN-2022	09:59	422A0603.D	1	SKA0028-IBL1	
4	06-JAN-2022	10:19	422A0604.D	1	SKA0028-IBL2	
5	06-JAN-2022	10:39	422A0605.D	1	SKA0028-ICV1	
6	06-JAN-2022	10:59	422A0606.D	1	SKA0028-ICV2	
7	06-JAN-2022	11:19	422A0607.D	1	BKA0056-BLK1	
8	06-JAN-2022	11:38	422A0608.D	1	BKA0056-BS1	
9	06-JAN-2022	11:58	422A0609.D	1	BKA0056-MRL1	
10	06-JAN-2022	12:18	422A0610.D	1	BKA0056-MRL2	
11	06-JAN-2022	12:38	422A0611.D	1	22A0041-01	
12	06-JAN-2022	12:58	422A0612.D	10	22A0041-01	
13	06-JAN-2022	13:17	422A0613.D	10	22A0041-02	
14	06-JAN-2022	13:37	422A0614.D	20	22A0041-01	
15	06-JAN-2022	13:57	422A0615.D	20	22A0041-02	
16	06-JAN-2022	14:17	422A0616.D	20	22A0041-03	
17	06-JAN-2022	14:37	422A0617.D	20	22A0041-04	
18	06-JAN-2022	14:56	422A0618.D	1	SKA0028-CCV1	
19	06-JAN-2022	15:16	422A0619.D	1	SKA0028-CCV2	
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21	06-JAN-2022	17:24	422A0621.D	1	SKA0028-CAL2	
22	06-JAN-2022	17:44	422A0622.D	1	SKA0028-CAL3	
23	06-JAN-2022	18:04	422A0623.D	1	SKA0028-CAL4	
24	06-JAN-2022	18:23	422A0624.D	1	SKA0028-CAL5	
25	06-JAN-2022	18:43	422A0625.D	1	SKA0028-CAL6	
26	06-JAN-2022	19:03	422A0626.D	1	SKA0028-CAL7	
27	06-JAN-2022	19:23	422A0627.D	1	SKA0028-CAL8	
28	06-JAN-2022	19:43	422A0628.D	1	SKA0028-CAL9	
29	06-JAN-2022	20:02	422A0629.D	1	SKA0028-CALA	
30	06-JAN-2022	20:22	422A0630.D	1	SKA0028-CALB	
31	06-JAN-2022	20:42	422A0631.D	1	SKA0028-CALC	
32	06-JAN-2022	21:02	422A0632.D	1	SKA0028-SCV1	
33	06-JAN-2022	21:21	422A0633.D	1	SKA0028-SCV2	
34	06-JAN-2022	21:41	422A0634.D	1	SKA0028-CALD	
35	06-JAN-2022	22:01	422A0635.D	1	SKA0028-CALE	
36	06-JAN-2022	22:21	422A0636.D	1	SKA0028-CALF	
37	06-JAN-2022	22:40	422A0637.D	1	SKA0028-CALG	
38	06-JAN-2022	23:00	422A0638.D	1	SKA0028-CALH	
39	06-JAN-2022	23:20	422A0639.D	1	SKA0028-CALI	
40	06-JAN-2022	23:40	422A0640.D	1	SKA0028-SCV3	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220106.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 06-JAN-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0920	422A0601.D	RINSE		1	NO MANUAL INTEGRATION
0940	422A0602.D	RINSE		1	NO MANUAL INTEGRATION
0959	422A0603.D	SKA0028-IBL1		1	Toluene,
1019	422A0604.D	SKA0028-IBL2		1	NO MANUAL INTEGRATION
1039	422A0605.D	SKA0028-ICV1		1	o-terph,
1059	422A0606.D	SKA0028-ICV2		1	Triacon Surr,
1119	422A0607.D	BKA0056-BLK1		1	NO MANUAL INTEGRATION
1138	422A0608.D	BKA0056-BS1		1	o-terph,
1158	422A0609.D	BKA0056-MRL1		1	o-terph, Triacon Surr,
1218	422A0610.D	BKA0056-MRL2		1	o-terph, Triacon Surr,
1238	422A0611.D	22A0041-01		1	o-terph,
1258	422A0612.D	22A0041-01		10	Triacon Surr,
1317	422A0613.D	22A0041-02		10	NO MANUAL INTEGRATION
1337	422A0614.D	22A0041-01		20	o-terph, Triacon Surr,
1357	422A0615.D	22A0041-02		20	o-terph, Triacon Surr,
1417	422A0616.D	22A0041-03		20	o-terph, Triacon Surr,
1437	422A0617.D	22A0041-04		20	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220106.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1456	422A0618.D	SKA0028-CCV1		1	o-terph,
1516	422A0619.D	SKA0028-CCV2		1	NO MANUAL INTEGRATION
1704	422A0620.D	SKA0028-CAL1		1	o-terph,
1724	422A0621.D	SKA0028-CAL2		1	o-terph,
1744	422A0622.D	SKA0028-CAL3		1	o-terph,
1804	422A0623.D	SKA0028-CAL4		1	o-terph,
1823	422A0624.D	SKA0028-CAL5		1	o-terph,
1843	422A0625.D	SKA0028-CAL6		1	o-terph,
1903	422A0626.D	SKA0028-CAL7		1	Triacon Surr,
1923	422A0627.D	SKA0028-CAL8		1	Triacon Surr,
1943	422A0628.D	SKA0028-CAL9		1	Triacon Surr,
2002	422A0629.D	SKA0028-CALA		1	Triacon Surr,
2022	422A0630.D	SKA0028-CALB		1	Triacon Surr,
2042	422A0631.D	SKA0028-CALC		1	Triacon Surr,
2102	422A0632.D	SKA0028-SCV1		1	NO MANUAL INTEGRATION
2121	422A0633.D	SKA0028-SCV2		1	NO MANUAL INTEGRATION
2141	422A0634.D	SKA0028-CALD		1	Triacon Surr,
2201	422A0635.D	SKA0028-CALE		1	Triacon Surr,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220106.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
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2300	422A0638.D	SKA0028-CALH		1	Triacon Surr,
2320	422A0639.D	SKA0028-CALI		1	Triacon Surr,
2340	422A0640.D	SKA0028-SCV3		1	Triacon Surr,

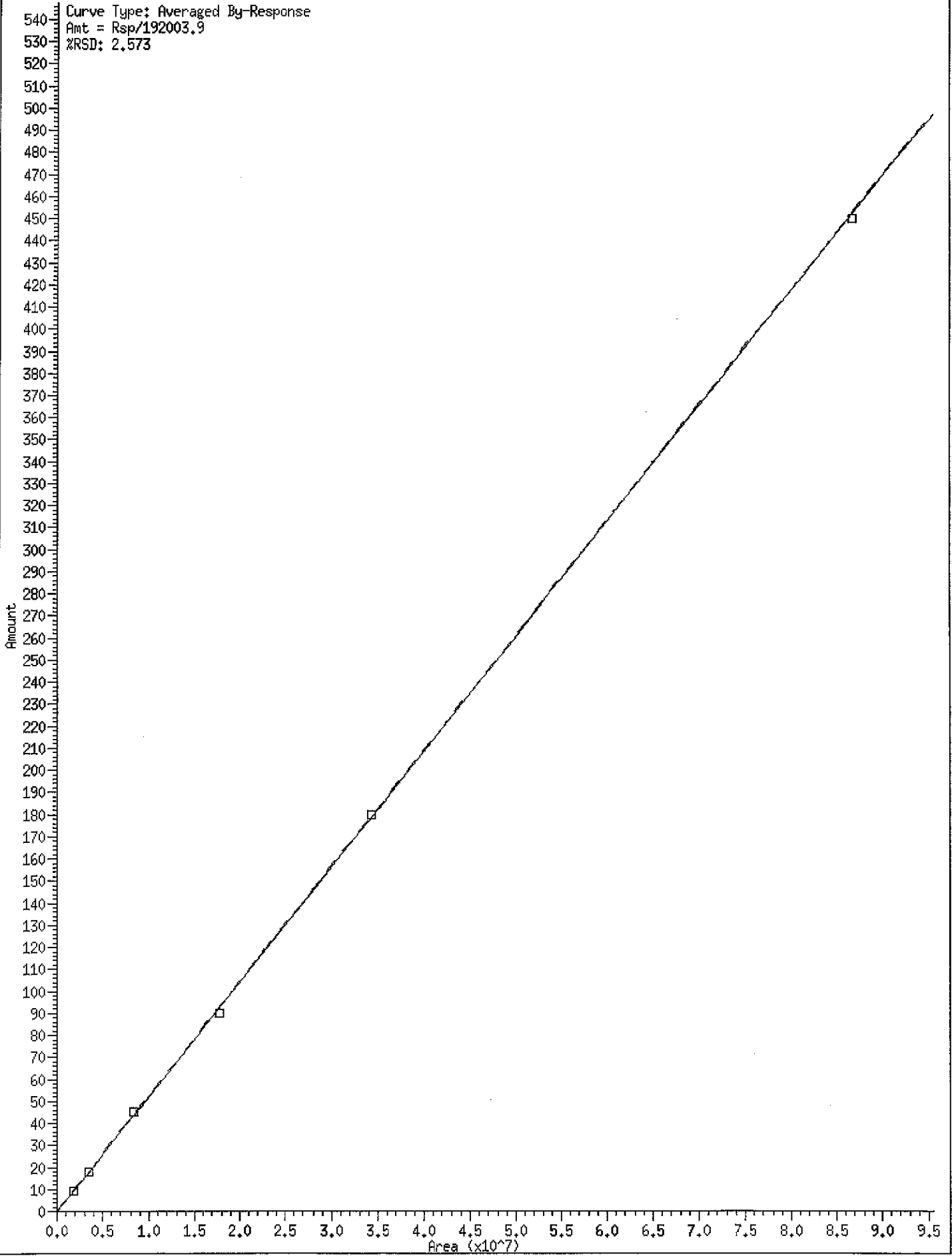
Security Status Report

Date: 07-Jan-2022 18:09

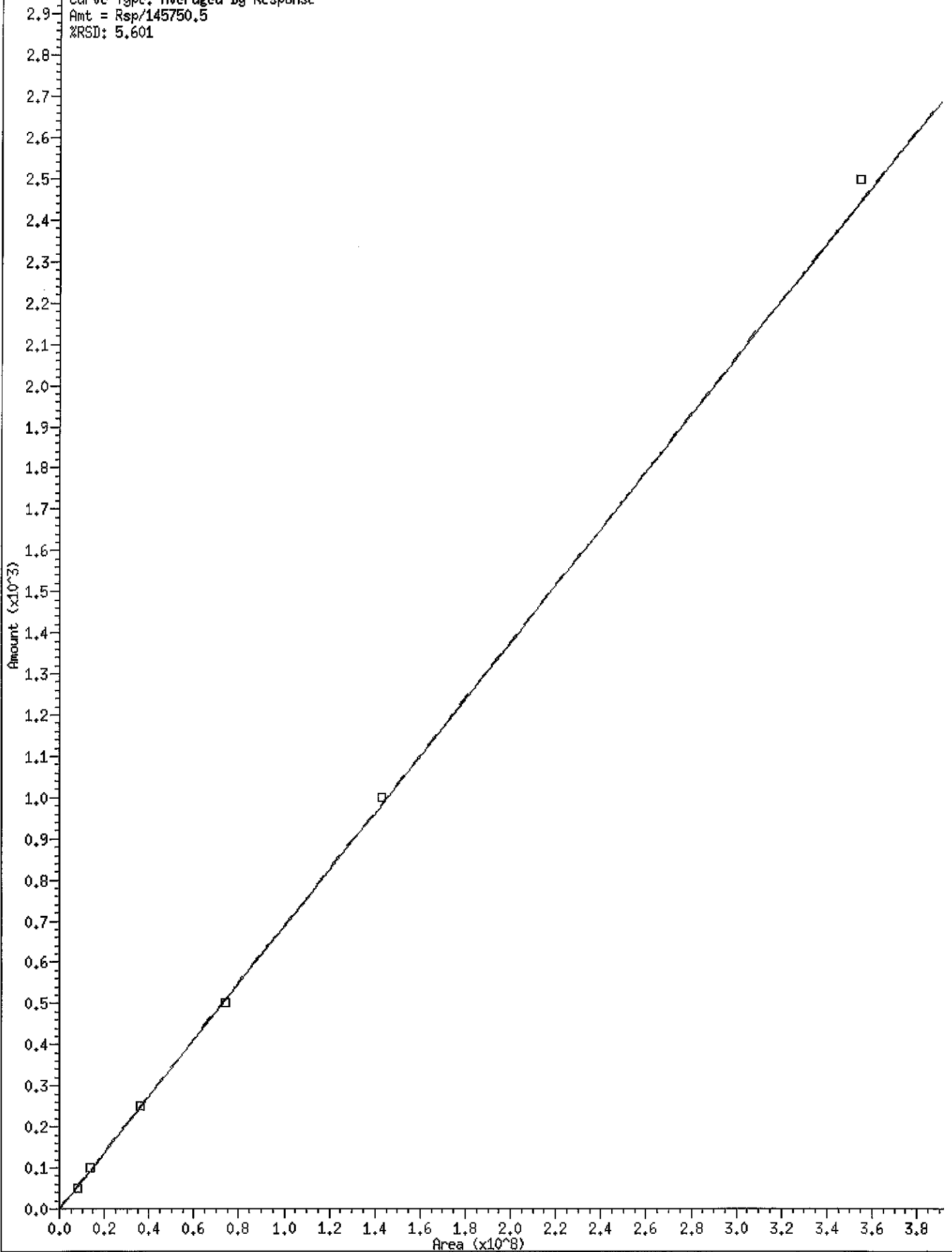
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8 o-terph

Curve Type: Averaged By-Response
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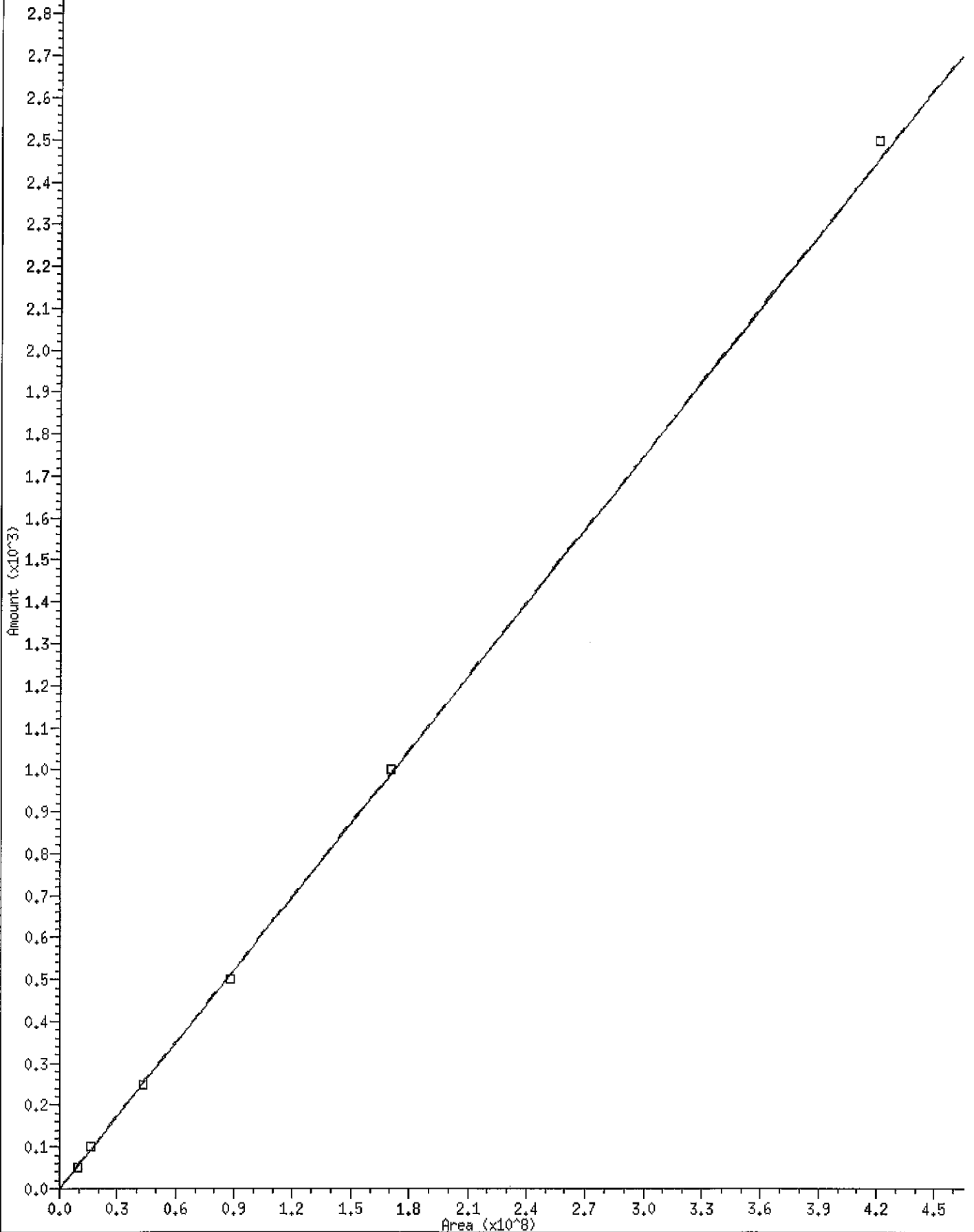
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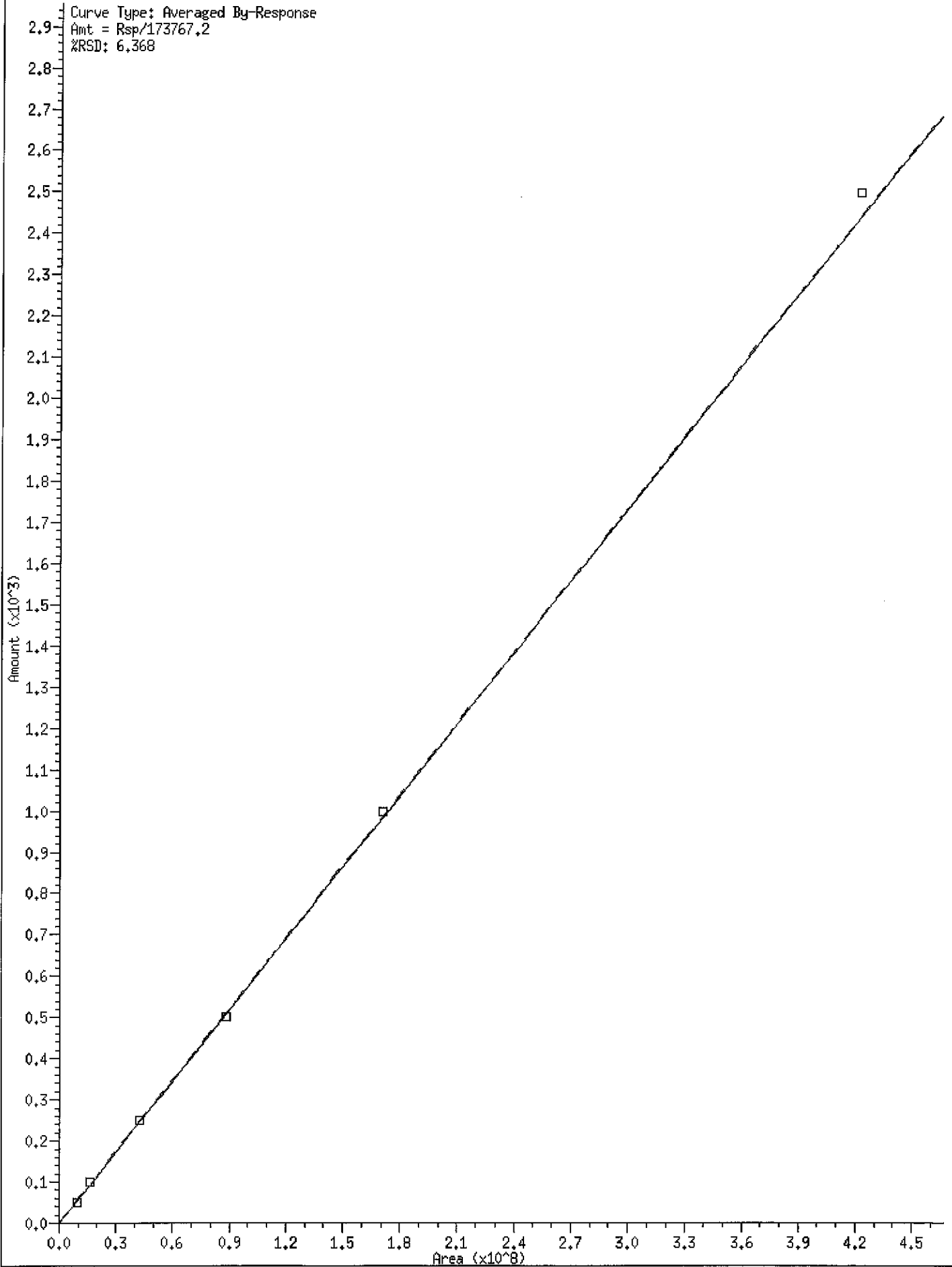
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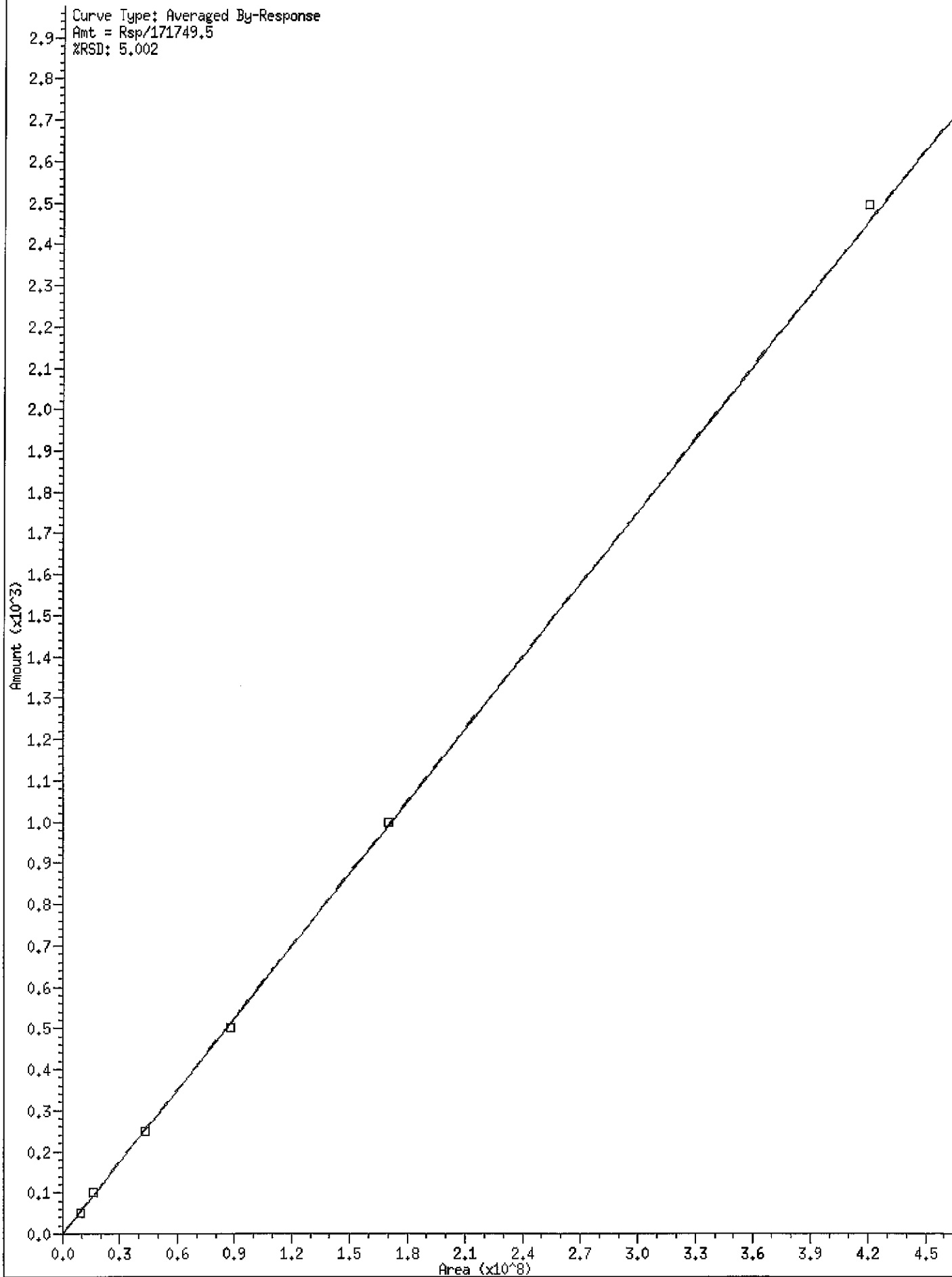


40 NAS Diesel

Curve Type: Averaged By-Response

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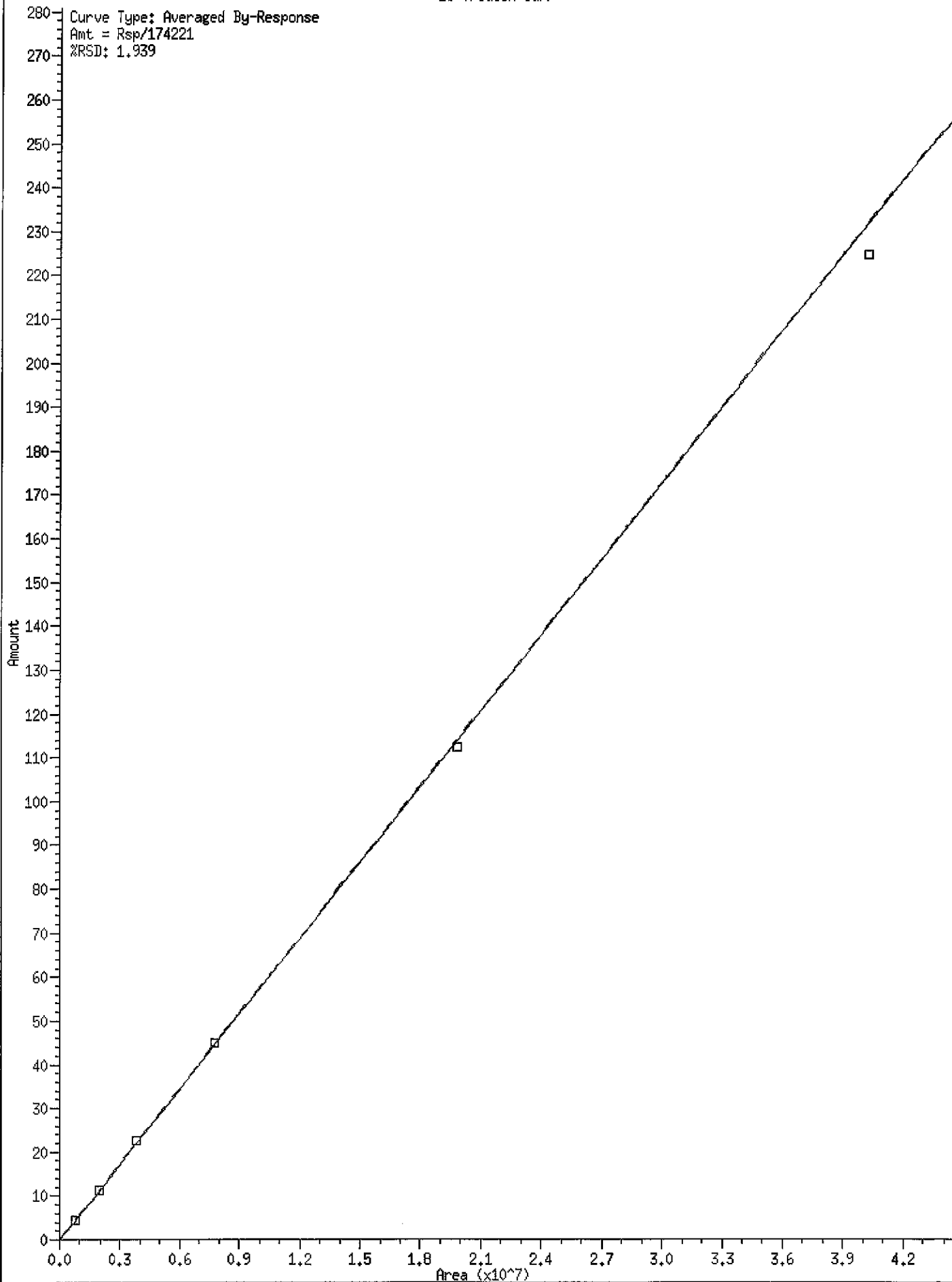


15 Triacon Surr

Curve Type: Averaged By-Response

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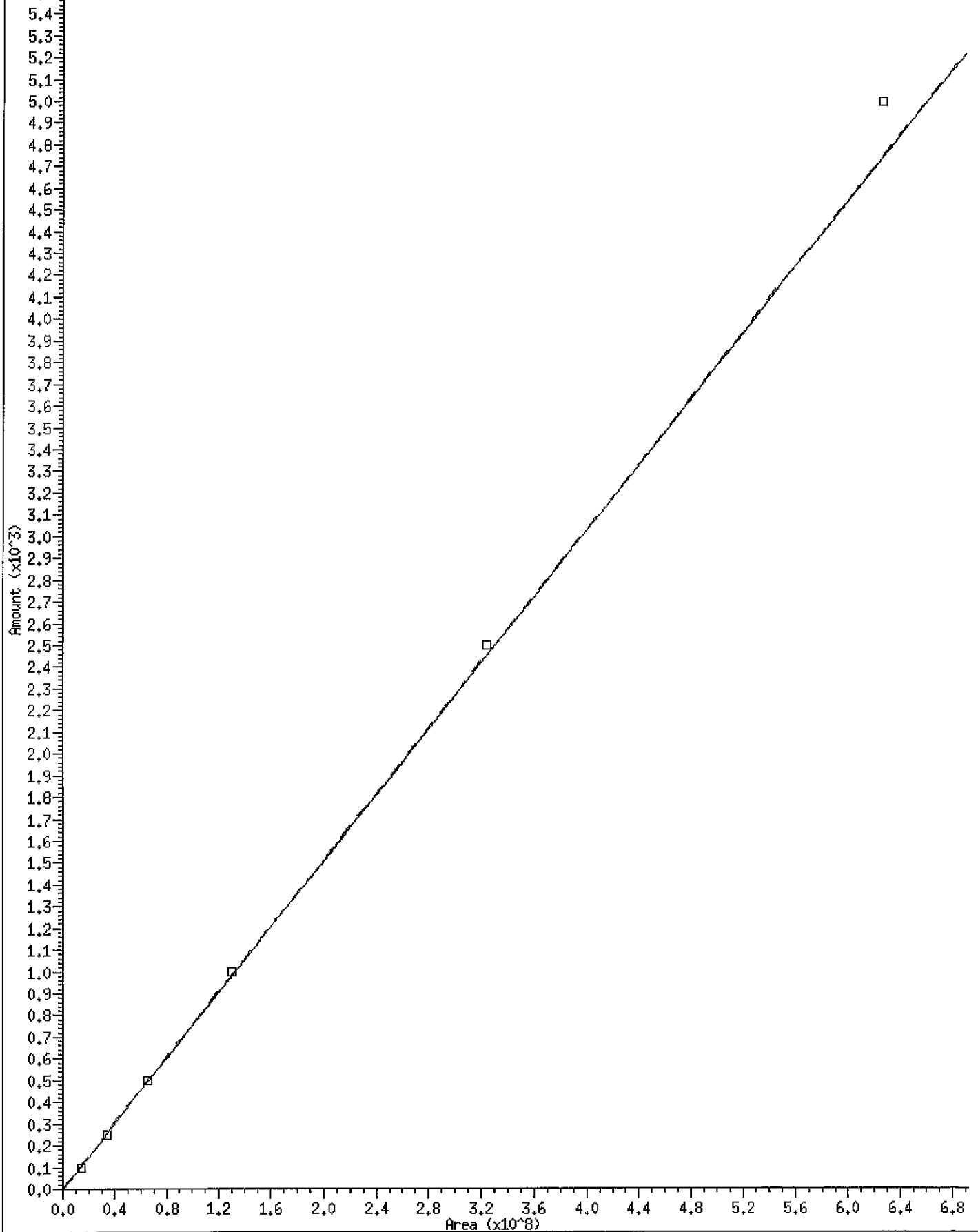
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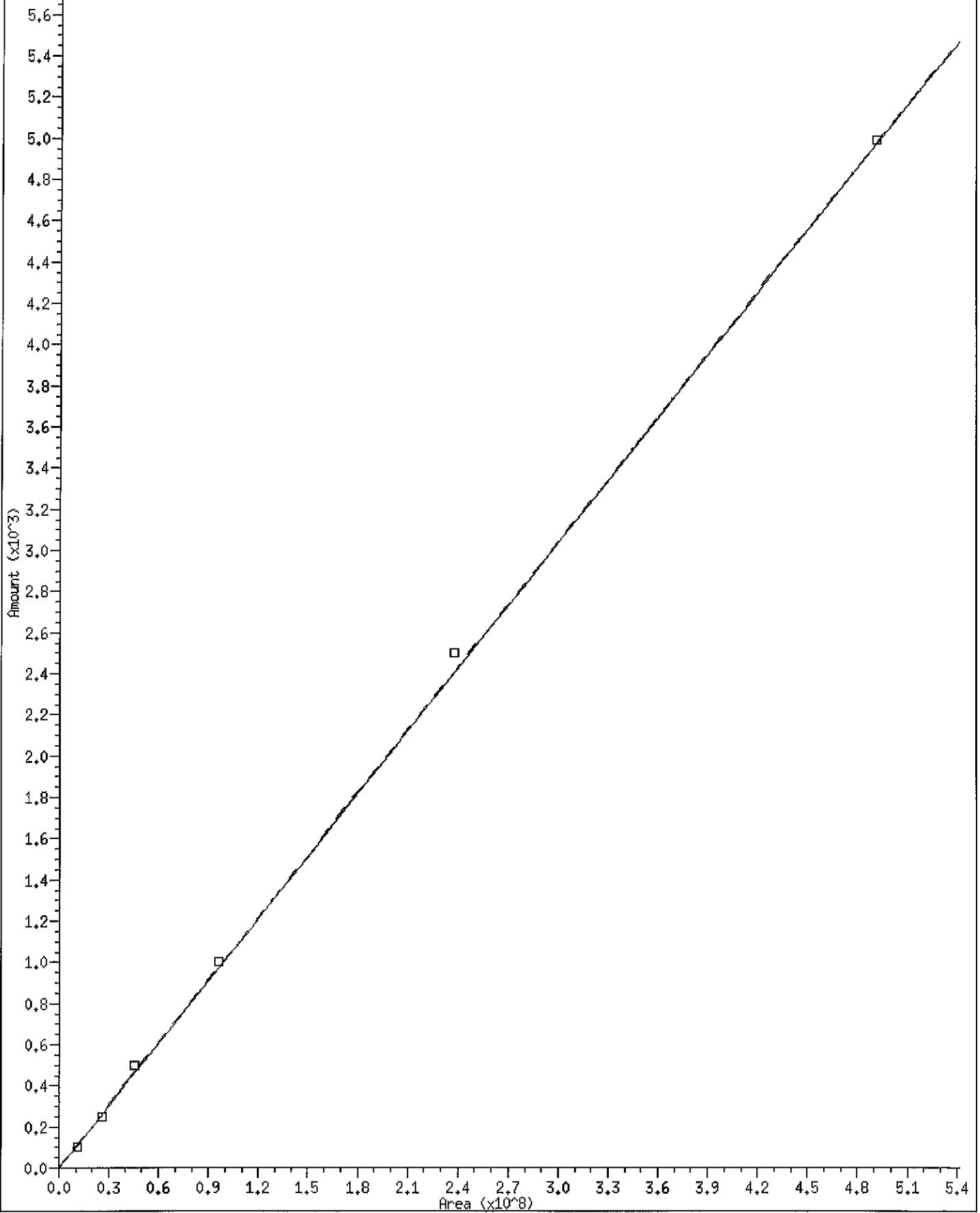
5.7 Curve Type: Averaged By-Response

5.6 Amt = Rsp/132579.1

5.5 %RSD: 4.906



Curve Type: Averaged By-Response
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%RSD: 6.416



ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220106.b\FID4TPH.m
Batch File: \\target\share\chem2\fid4a.i\20220106.b
Inst ID: fid4a.i

Diesel RT Study

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 422A0620 422A0621 422A0622 422A0623 422A0624 422A0625
INJ. DATE: 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022
INJ. TIME: 17:04 17:24 17:44 18:04 18:23 18:43

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	1.421	1.420	1.420	1.421	1.421	1.418	1.413	1.313-1.513	1.420	0.001
38 NewCpnd_31	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
35 Mineral Oil	+++++	+++++	+++++	+++++	+++++	+++++	1.015	0.965-1.065	+++++	+++++
41 Mineral Spirits	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
2 C8	1.573	1.572	1.572	1.572	1.572	1.569	1.566	1.466-1.666	1.572	0.001
3 C10	2.795	2.796	2.795	2.795	2.796	2.796	2.801	2.751-2.851	2.795	0.001
4 C12	3.855	3.856	3.856	3.856	3.857	3.860	3.859	3.809-3.909	3.857	0.002
5 C14	4.668	4.667	4.665	4.666	4.667	4.674	4.668	4.618-4.718	4.668	0.003
6 C16	5.356	5.354	5.353	5.355	5.356	5.364	5.356	5.306-5.406	5.356	0.004
7 C18	5.968	5.967	5.969	5.971	5.974	5.984	5.972	5.922-6.022	5.972	0.006
8 o-terph	6.148	6.151	6.156	6.166	6.176	6.198	6.167	6.117-6.217	6.166	0.019
9 C20	6.561	6.557	6.556	6.556	6.556	6.561	6.560	6.510-6.610	6.558	0.002
10 C22	7.145	7.142	7.138	7.137	7.137	7.139	7.141	7.091-7.191	7.140	0.003
11 C24	7.700	7.717	7.712	7.709	7.706	7.705	7.709	7.659-7.759	7.708	0.006
12 C25	7.988	7.985	7.991	7.987	7.985	7.982	7.986	7.936-8.036	7.986	0.003
13 C26	8.255	8.255	8.266	8.260	8.256	8.252	8.257	8.207-8.307	8.257	0.005
14 C28	8.781	8.778	8.778	8.777	8.779	8.775	8.775	8.725-8.825	8.778	0.002

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220106.b\FID4TPH.m
 Batch File: \\target\share\chem2\fid4a.i\20220106.b
 Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
15 Triacon Surr	9.283	9.287	9.296	9.286	9.291	9.292	9.290	9.240-9.340	9.289	0.004
16 C32	9.733	9.728	9.728	9.726	9.729	9.731	9.730	9.680-9.780	9.729	0.002
17 C34	10.163	10.167	10.166	10.171	10.169	10.165	10.167	10.117-10.217	10.167	0.003
18 Filter Peak	13.972	13.972	13.971	13.969	13.977	13.974	13.973	13.873-14.073	13.973	0.003
19 C36	10.580	10.580	10.581	10.581	10.578	10.583	10.581	10.531-10.631	10.580	0.001
20 C38	10.991	10.991	10.988	10.991	10.988	10.988	10.989	10.939-11.039	10.989	0.002
21 C40	11.462	11.464	11.455	11.458	11.458	11.464	11.460	11.410-11.510	11.460	0.004
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.899	0.849-0.949	+++++	+++++
37 ACreosote	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 Jet A	+++++	+++++	+++++	+++++	+++++	+++++	1.024	0.974-1.074	+++++	+++++
30 NW Moil	+++++	+++++	+++++	+++++	+++++	+++++	0.885	0.835-0.935	+++++	+++++
31 NW AK102	+++++	+++++	+++++	+++++	+++++	+++++	0.803	0.753-0.853	+++++	+++++
32 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.812	0.762-0.862	+++++	+++++
33 AK103	+++++	+++++	+++++	+++++	+++++	+++++	1.344	1.294-1.394	+++++	+++++
36 ABunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.985	0.935-1.035	+++++	+++++
39 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
40 NAS Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220106.b\FID4TPH.m
Batch File: \\target\share\chem2\fid4a.i\20220106.b
Inst ID: fid4a.i

Motor Oil RT Study

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	422A0626	422A0627	422A0628	422A0629	422A0630	422A0631
INJ. DATE:	06-JAN-2022	06-JAN-2022	06-JAN-2022	06-JAN-2022	06-JAN-2022	06-JAN-2022
INJ. TIME:	19:03	19:23	19:43	20:02	20:22	20:42

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	1.401	1.414	1.425	1.424	1.424	1.425	1.413	1.313-1.513	1.419	0.010
38 NewCpnd_31	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
35 Mineral Oil	+++++	+++++	+++++	+++++	+++++	+++++	1.015	0.965-1.065	+++++	+++++
41 Mineral Spirits	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
2 C8	1.567	1.564	1.561	1.566	1.577	1.567	1.566	1.466-1.666	1.567	0.005
3 C10	2.807	2.795	2.810	2.796	2.794	2.794	2.801	2.751-2.851	2.799	0.007
4 C12	3.854	3.863	3.860	3.854	3.853	3.854	3.859	3.809-3.909	3.856	0.004
5 C14	4.672	4.668	4.668	4.666	4.669	4.664	4.668	4.618-4.718	4.668	0.003
6 C16	5.358	5.359	5.360	5.356	5.356	5.354	5.356	5.306-5.406	5.357	0.002
7 C18	5.971	5.972	5.970	5.974	5.970	5.968	5.972	5.922-6.022	5.971	0.002
8 o-terph	6.165	6.174	6.163	6.165	6.165	6.164	6.167	6.117-6.217	6.166	0.004
9 C20	6.561	6.563	6.561	6.560	6.559	6.559	6.560	6.510-6.610	6.561	0.002
10 C22	7.144	7.145	7.143	7.144	7.144	7.142	7.141	7.091-7.191	7.143	0.001
11 C24	7.709	7.710	7.705	7.706	7.713	7.708	7.709	7.659-7.759	7.708	0.003
12 C25	7.981	7.985	7.987	7.986	7.984	7.986	7.986	7.936-8.036	7.985	0.002
13 C26	8.253	8.254	8.255	8.247	8.259	8.255	8.257	8.207-8.307	8.254	0.004
14 C28	8.780	8.776	8.780	8.782	8.775	8.772	8.775	8.725-8.825	8.778	0.004

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220106.b\FID4TPH.m
 Batch File: \\target\share\chem2\fid4a.i\20220106.b
 Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
15 Triacon Surr	9.260	9.263	9.269	9.277	9.296	9.319	9.290	9.240-9.340	9.281	0.022
16 C32	9.725	9.726	9.731	9.731	9.731	9.734	9.730	9.680-9.780	9.730	0.004
17 C34	10.169	10.164	10.171	10.167	10.171	10.170	10.167	10.117-10.217	10.169	0.003
18 Filter Peak	13.974	13.970	13.970	13.976	13.973	13.976	13.973	13.873-14.073	13.973	0.002
19 C36	10.580	10.578	10.577	10.587	10.580	10.579	10.581	10.531-10.631	10.580	0.004
20 C38	10.985	10.990	10.987	10.988	10.995	10.994	10.989	10.939-11.039	10.990	0.004
21 C40	11.462	11.459	11.459	11.461	11.461	11.457	11.460	11.410-11.510	11.460	0.002
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.899	0.849-0.949	+++++	+++++
37 ACreosote	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 Jet A	+++++	+++++	+++++	+++++	+++++	+++++	1.024	0.974-1.074	+++++	+++++
30 NW Moil	+++++	+++++	+++++	+++++	+++++	+++++	0.885	0.835-0.935	+++++	+++++
31 NW AK102	+++++	+++++	+++++	+++++	+++++	+++++	0.803	0.753-0.853	+++++	+++++
32 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.812	0.762-0.862	+++++	+++++
33 AK103	+++++	+++++	+++++	+++++	+++++	+++++	1.344	1.294-1.394	+++++	+++++
36 ABunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.985	0.935-1.035	+++++	+++++
39 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
40 NAS Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220106.b\FID4TPH.m
Batch File: \\target\share\chem2\fid4a.i\20220106.b
Inst ID: fid4a.i

AK103 RT Study

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 422A0634 422A0635 422A0636 422A0637 422A0638 422A0639
INJ. DATE: 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022
INJ. TIME: 21:41 22:01 22:21 22:40 23:00 23:20

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	1.400	1.403	1.402	1.400	1.399	1.400	1.413	1.313-1.513	1.401	0.001
38 NewCpnd_31	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
35 Mineral Oil	+++++	+++++	+++++	+++++	+++++	+++++	1.015	0.965-1.065	+++++	+++++
41 Mineral Spirits	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
2 C8	1.567	1.577	1.588	1.564	1.550	1.565	1.566	1.466-1.666	1.569	0.013
3 C10	2.800	2.808	2.808	2.793	2.793	2.792	2.801	2.751-2.851	2.799	0.008
4 C12	3.855	3.853	3.855	3.854	3.853	3.854	3.859	3.809-3.909	3.854	0.001
5 C14	4.670	4.667	4.670	4.668	4.669	4.668	4.668	4.618-4.718	4.668	0.001
6 C16	5.362	5.354	5.353	5.372	5.356	5.354	5.356	5.306-5.406	5.358	0.007
7 C18	5.964	5.975	5.970	5.973	5.969	5.967	5.972	5.922-6.022	5.970	0.004
8 o-terph	6.172	6.163	6.163	6.163	6.163	6.164	6.167	6.117-6.217	6.165	0.004
9 C20	6.560	6.558	6.558	6.562	6.557	6.555	6.560	6.510-6.610	6.558	0.002
10 C22	7.140	7.143	7.146	7.139	7.144	7.142	7.141	7.091-7.191	7.142	0.002
11 C24	7.705	7.703	7.711	7.706	7.707	7.709	7.709	7.659-7.759	7.707	0.003
12 C25	7.990	7.988	7.988	7.990	7.982	7.977	7.986	7.936-8.036	7.986	0.005
13 C26	8.258	8.253	8.250	8.260	8.254	8.259	8.257	8.207-8.307	8.256	0.004
14 C28	8.770	8.767	8.778	8.772	8.776	8.777	8.775	8.725-8.825	8.773	0.004

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

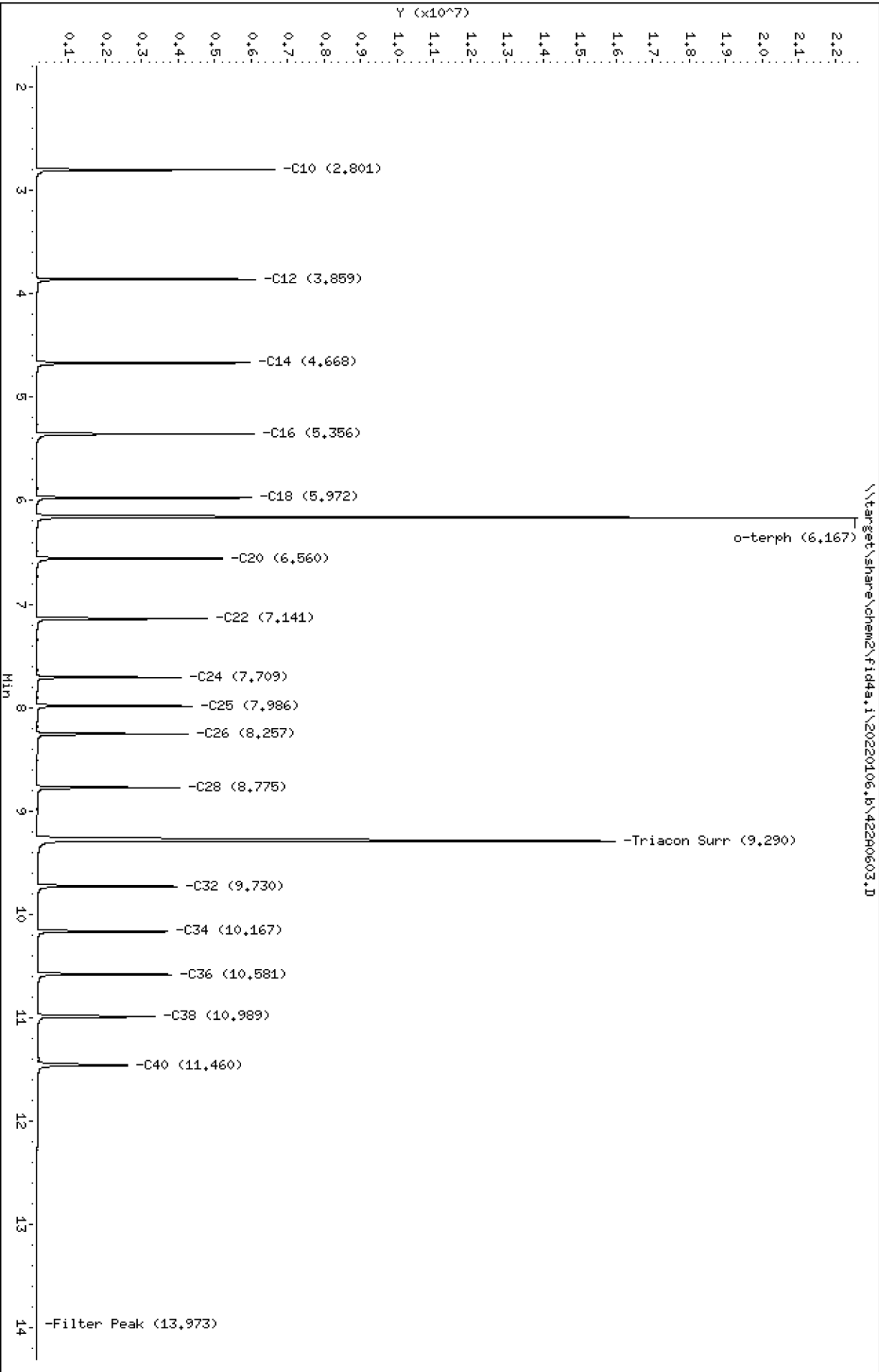
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 Batch File: \\target\share\chem2\fid4a.i\20220106.b
 Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
15 Triacon Surr	9.262	9.264	9.268	9.276	9.294	9.316	9.290	9.240-9.340	9.280	0.021
16 C32	9.727	9.733	9.727	9.728	9.737	9.730	9.730	9.680-9.780	9.730	0.004
17 C34	10.166	10.167	10.168	10.168	10.167	10.169	10.167	10.117-10.217	10.168	0.001
18 Filter Peak	13.971	13.973	13.971	13.971	13.972	13.974	13.973	13.873-14.073	13.972	0.001
19 C36	10.585	10.578	10.583	10.581	10.582	10.583	10.581	10.531-10.631	10.582	0.002
20 C38	10.986	10.983	10.988	10.990	10.991	10.992	10.989	10.939-11.039	10.988	0.003
21 C40	11.466	11.462	11.463	11.460	11.462	11.459	11.460	11.410-11.510	11.462	0.002
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.899	0.849-0.949	+++++	+++++
37 ACreosote	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 Jet A	+++++	+++++	+++++	+++++	+++++	+++++	1.024	0.974-1.074	+++++	+++++
30 NW Moil	+++++	+++++	+++++	+++++	+++++	+++++	0.885	0.835-0.935	+++++	+++++
31 NW AK102	+++++	+++++	+++++	+++++	+++++	+++++	0.803	0.753-0.853	+++++	+++++
32 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.812	0.762-0.862	+++++	+++++
33 AK103	+++++	+++++	+++++	+++++	+++++	+++++	1.344	1.294-1.394	+++++	+++++
36 ABunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.985	0.935-1.035	+++++	+++++
39 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
40 NAS Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++

Data File: \\target\share\chem2\fid4a,1\20220106_b\42240603.D
Date: 06-JAN-2022 09:59
Client ID:
Sample Info: SKR0028-IBL1

Column phase: RTX-1

Instrument: fid4a,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0603.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-IBL1
Client ID:
Injection: 06-JAN-2022 09:59
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

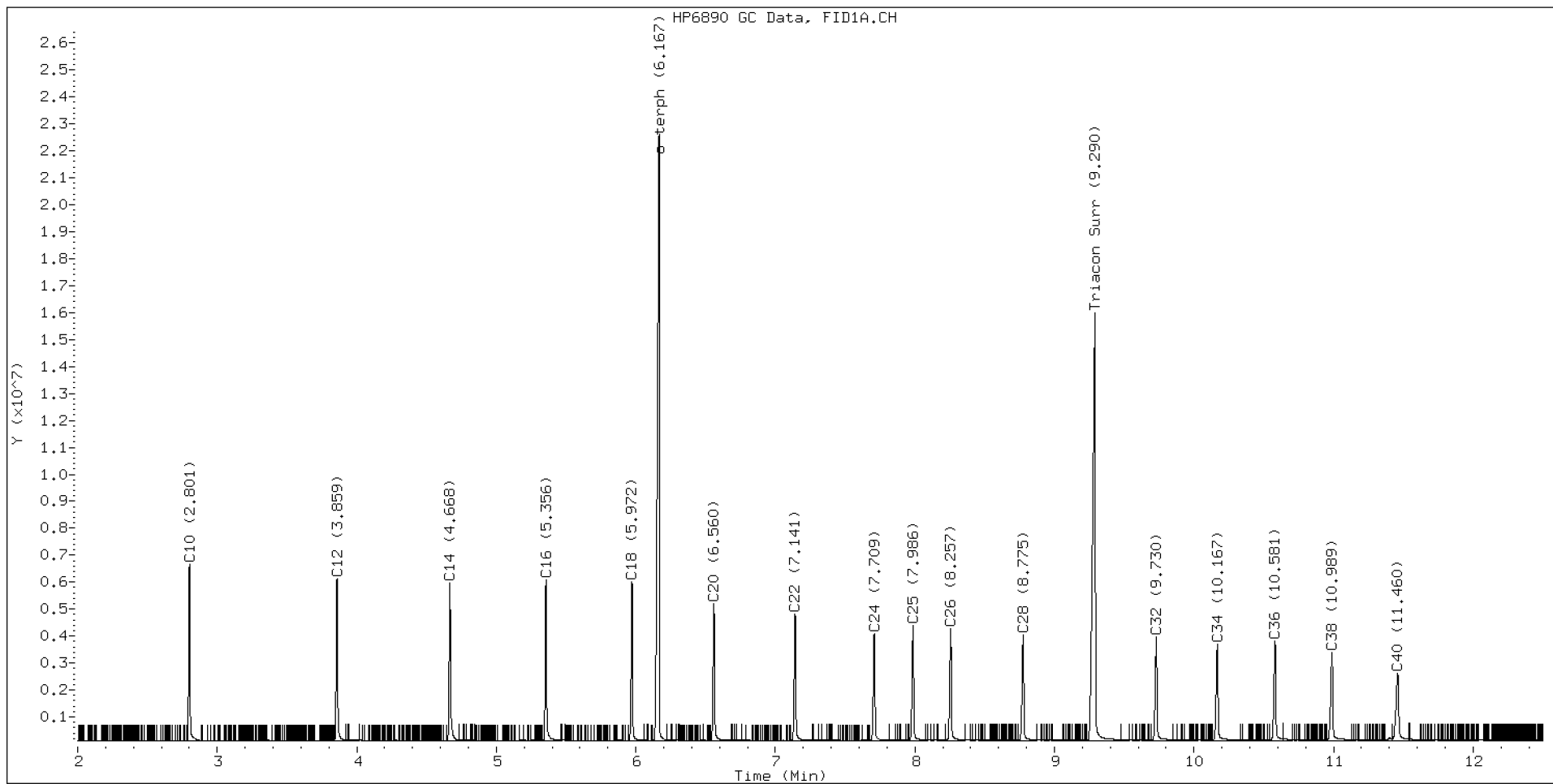
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.566	0.000	6713601	4039787	WATPHD	(C12-C24)	25039660	171.8
C10	2.801	0.000	6536883	4315633	WATPHM	(C24-C38)	28366853	214.0
C12	3.859	0.000	5996498	4131476	AK102	(C10-C25)	33798538	196.2
C14	4.668	0.000	5854462	4184820	AK103	(C25-C36)	23829494	240.9
C16	5.356	0.000	5963937	4127029	OR.DIES	(C10-C28)	45179025	260.0
C18	5.972	0.000	5885012	4061247				
C20	6.560	0.000	5093441	4004125				
C22	7.141	0.000	4686847	3888196				
C24	7.709	0.000	3978753	3286889				
C25	7.986	0.000	4279511	3648257				
C26	8.257	0.000	4166577	3725307				
C28	8.775	0.000	3937835	3595457				
C32	9.730	0.000	3839649	3755061				
C34	10.167	0.000	3575886	3656599				
Filter Peak	13.973	0.000	14079	6183				
C36	10.581	0.000	3708443	3634457				
C38	10.989	0.000	3260642	3846028				
C40	11.460	0.000	2490894	3636263				
o-terph	6.167	0.000	22482578	21984004				
Triacon Surr	9.290	0.000	15855592	21633183	NAS DIES	(C10-C24)	33658258	196.0

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	21984004	114.5
Triacontane	21633183	124.2

M Indicates the peak was manually integrated

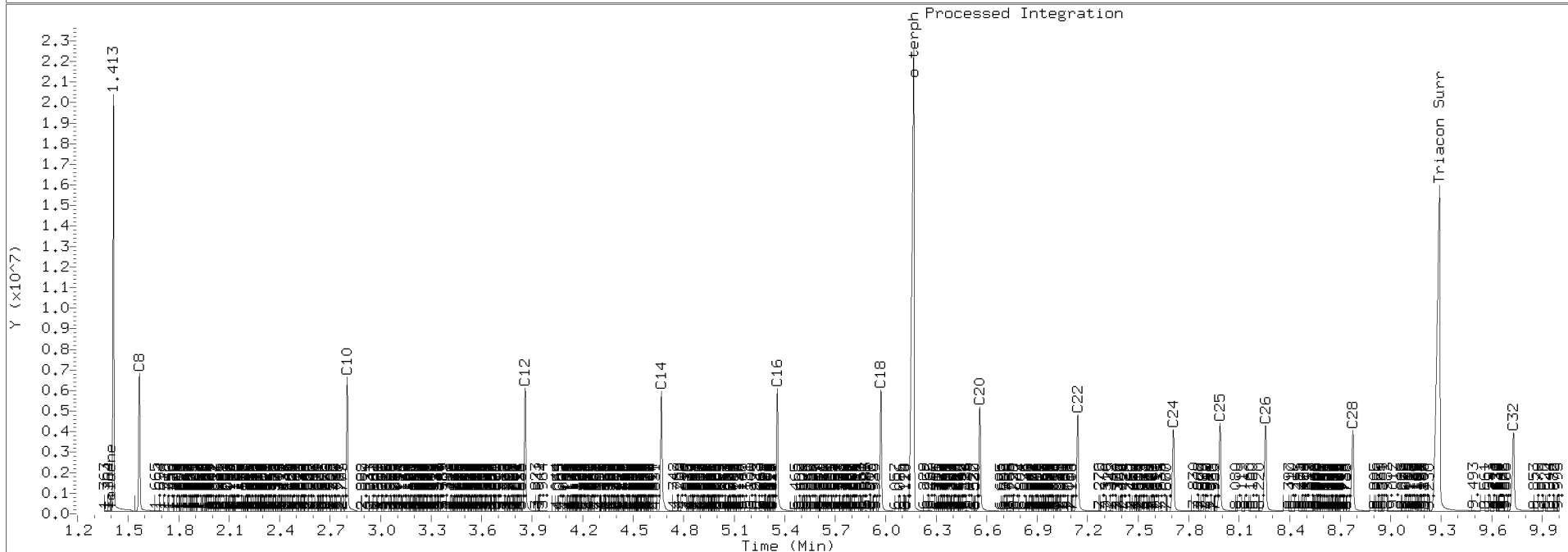
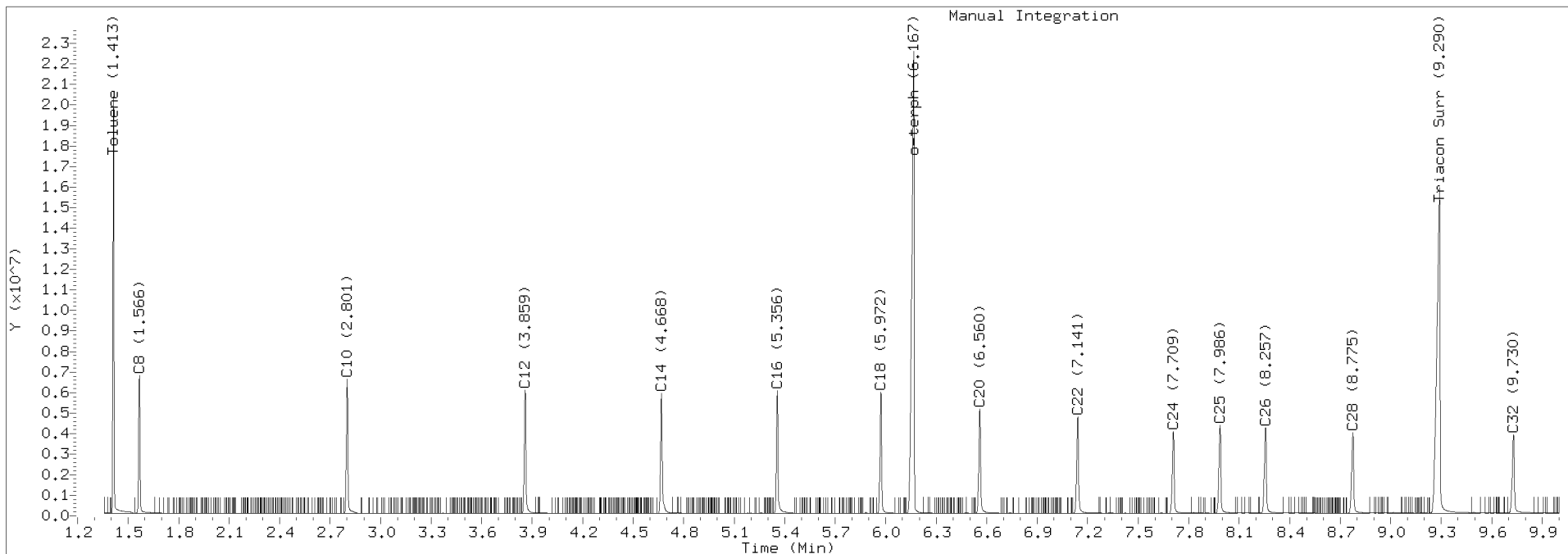
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0603.D Injection: 06-JAN-2022 09:59

Lab ID:SKA0028-IBL1



Data File: \\target\share\chem2\fid4a,1\20220106,b\42240604.D

Date: 06-JAN-2022 10:19

Client ID:

Sample Info: SKR0028-IBL2

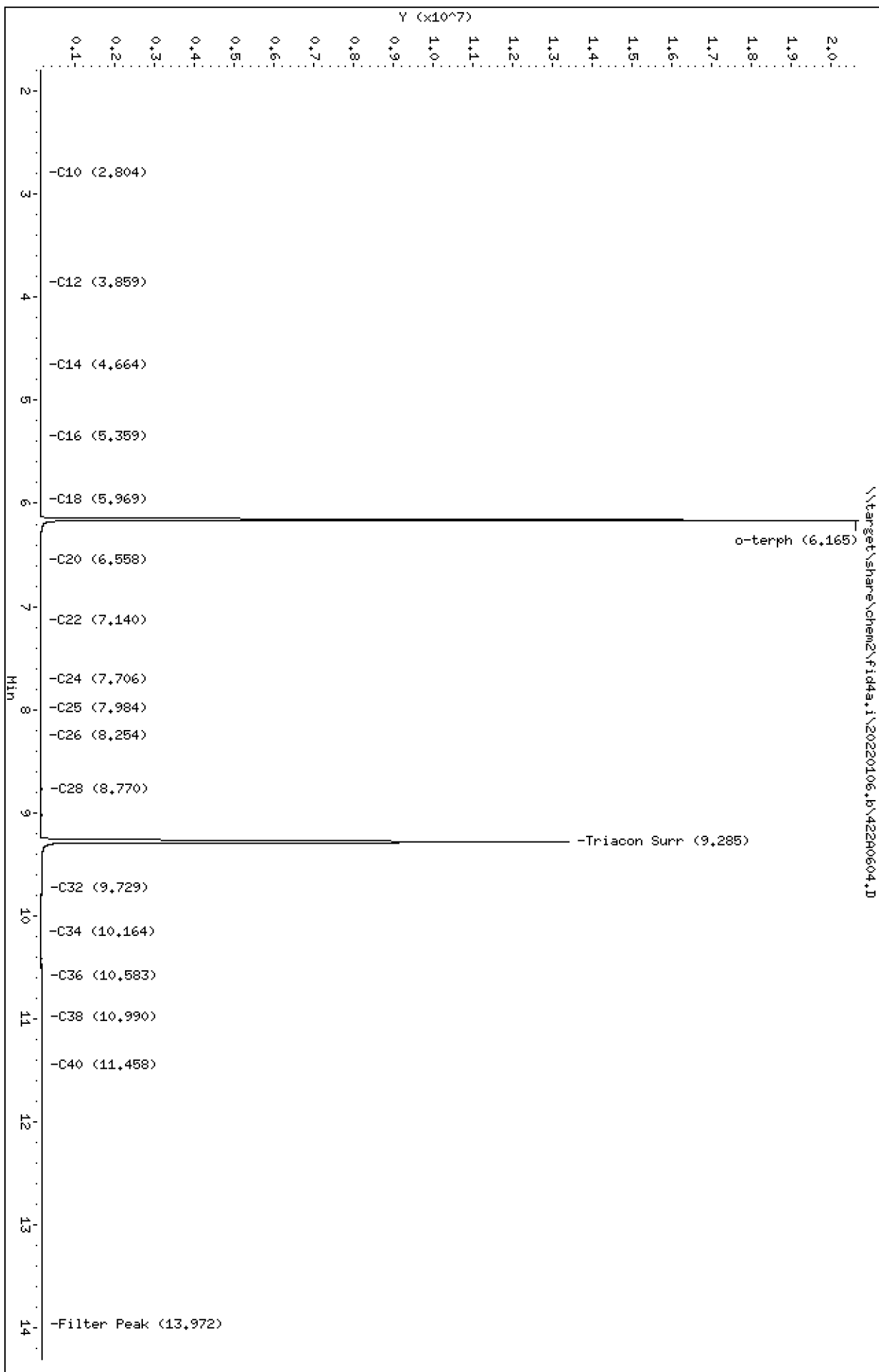
Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0604.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-IBL2
Client ID:
Injection: 06-JAN-2022 10:19
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

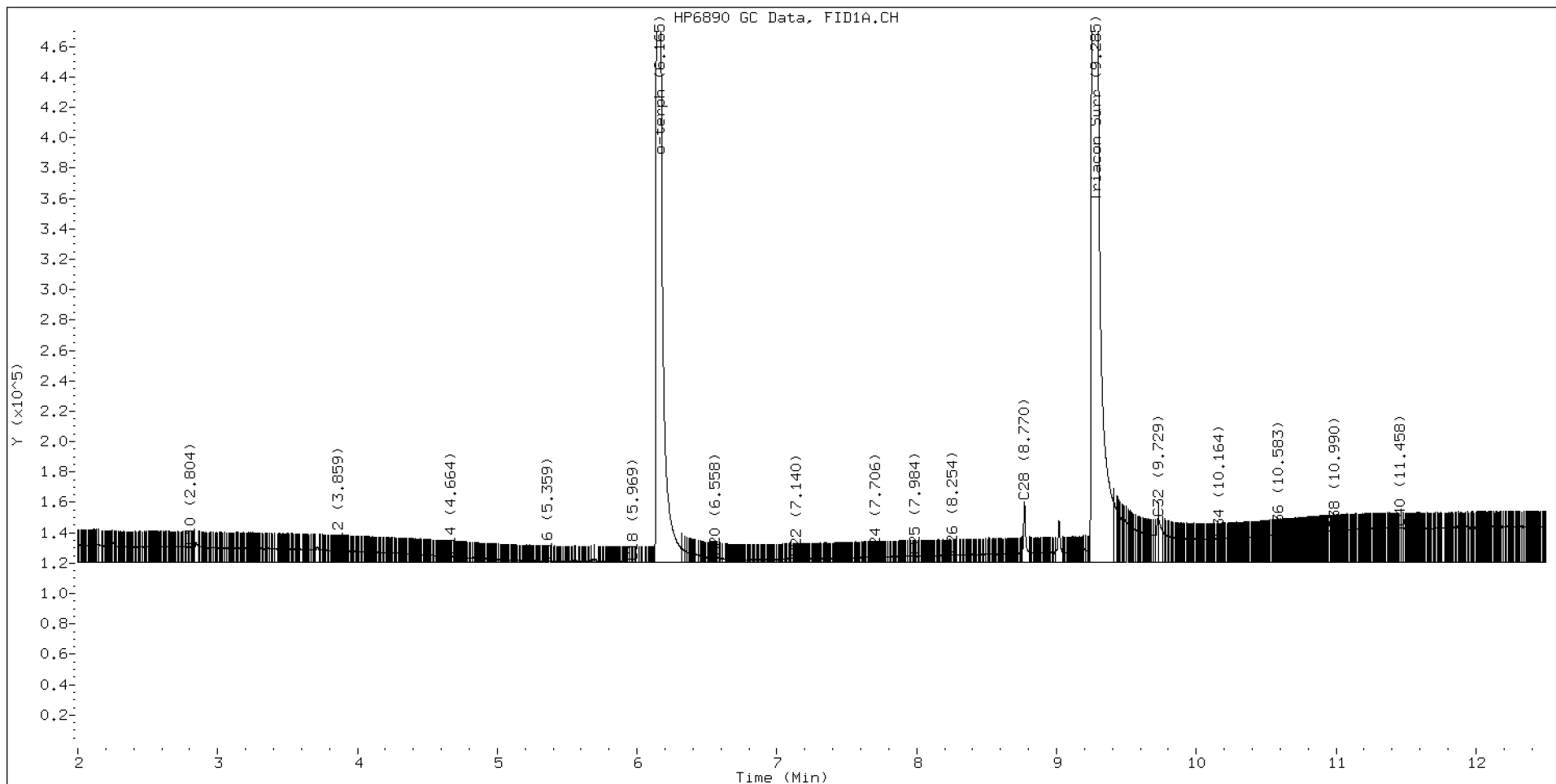
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.559	-0.008	19299	11444	WATPHD	(C12-C24)	622077	4.3
C10	2.804	0.003	10342	8454	WATPHM	(C24-C38)	2333932	17.6
C12	3.859	-0.000	7697	1914	AK102	(C10-C25)	1293098	7.5
C14	4.664	-0.004	4159	2417	AK103	(C25-C36)	1797549	18.2
C16	5.359	0.002	914	207	OR.DIES	(C10-C28)	1589947	9.1
C18	5.969	-0.003	462	129				
C20	6.558	-0.002	3676	1619				
C22	7.140	-0.001	2659	646				
C24	7.706	-0.003	3951	1720				
C25	7.984	-0.002	4536	2462				
C26	8.254	-0.004	5187	4697				
C28	8.770	-0.005	39782	48787				
C32	9.729	-0.001	29141	49217				
C34	10.164	-0.003	15846	10202				
Filter Peak	13.972	-0.001	22292	8869				
C36	10.583	0.001	18551	7386				
C38	10.990	0.001	21344	10622				
C40	11.458	-0.002	22810	13640				
o-terph	6.165	-0.002	20576644	20107672				
Triacon Surr	9.285	-0.004	13279811	16645751	NAS DIES	(C10-C24)	1251413	7.3

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	20107672	104.7
Triacontane	16645751	95.5

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



Data File: \\target\share\chem2\fid4a,1\20220106_b\42240620.D

Date: 06-JAN-2022 17:04

Client ID:

Sample Info: SKR0028-CAL1

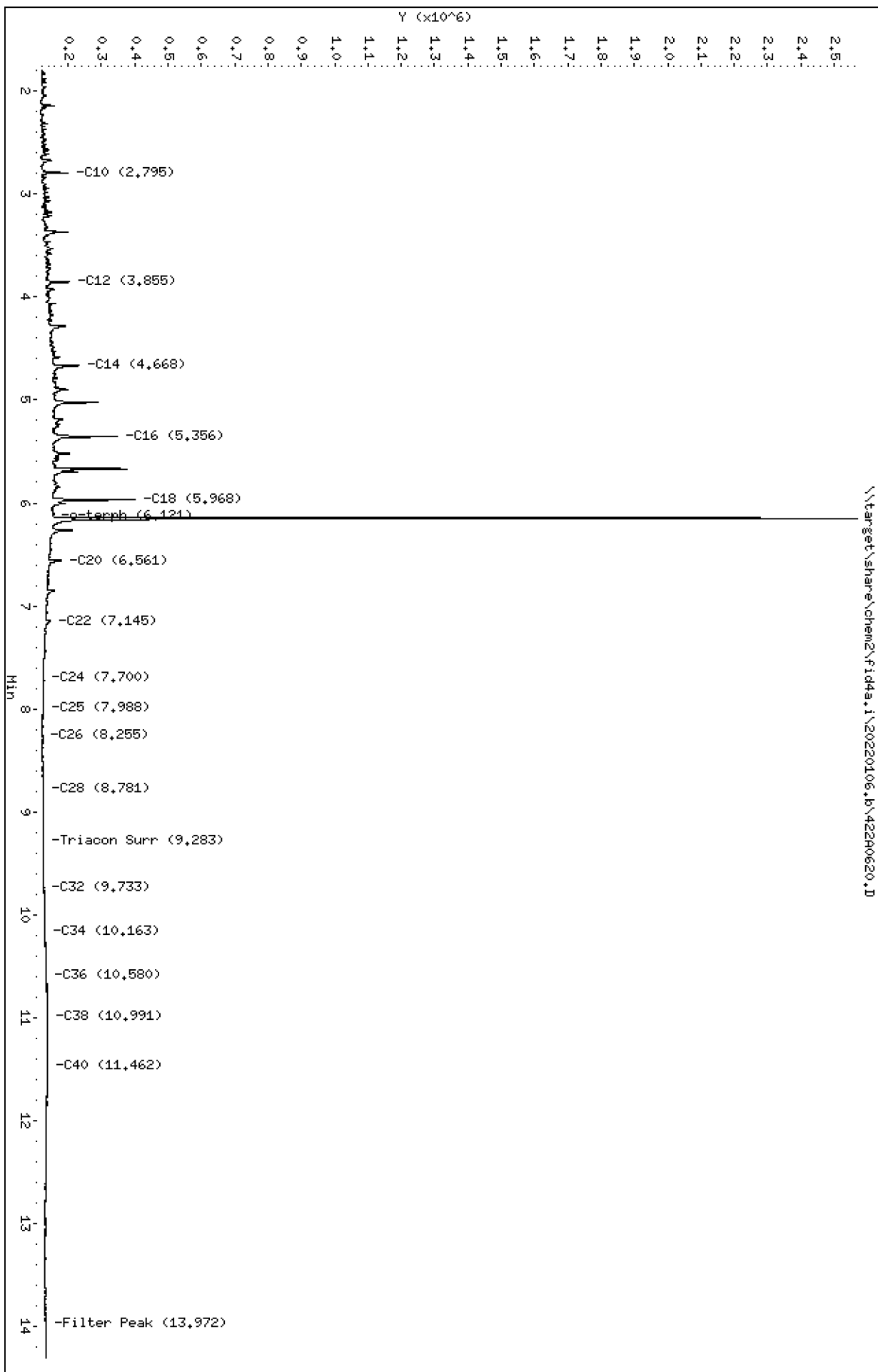
Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0620.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL1
Client ID:
Injection: 06-JAN-2022 17:04
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

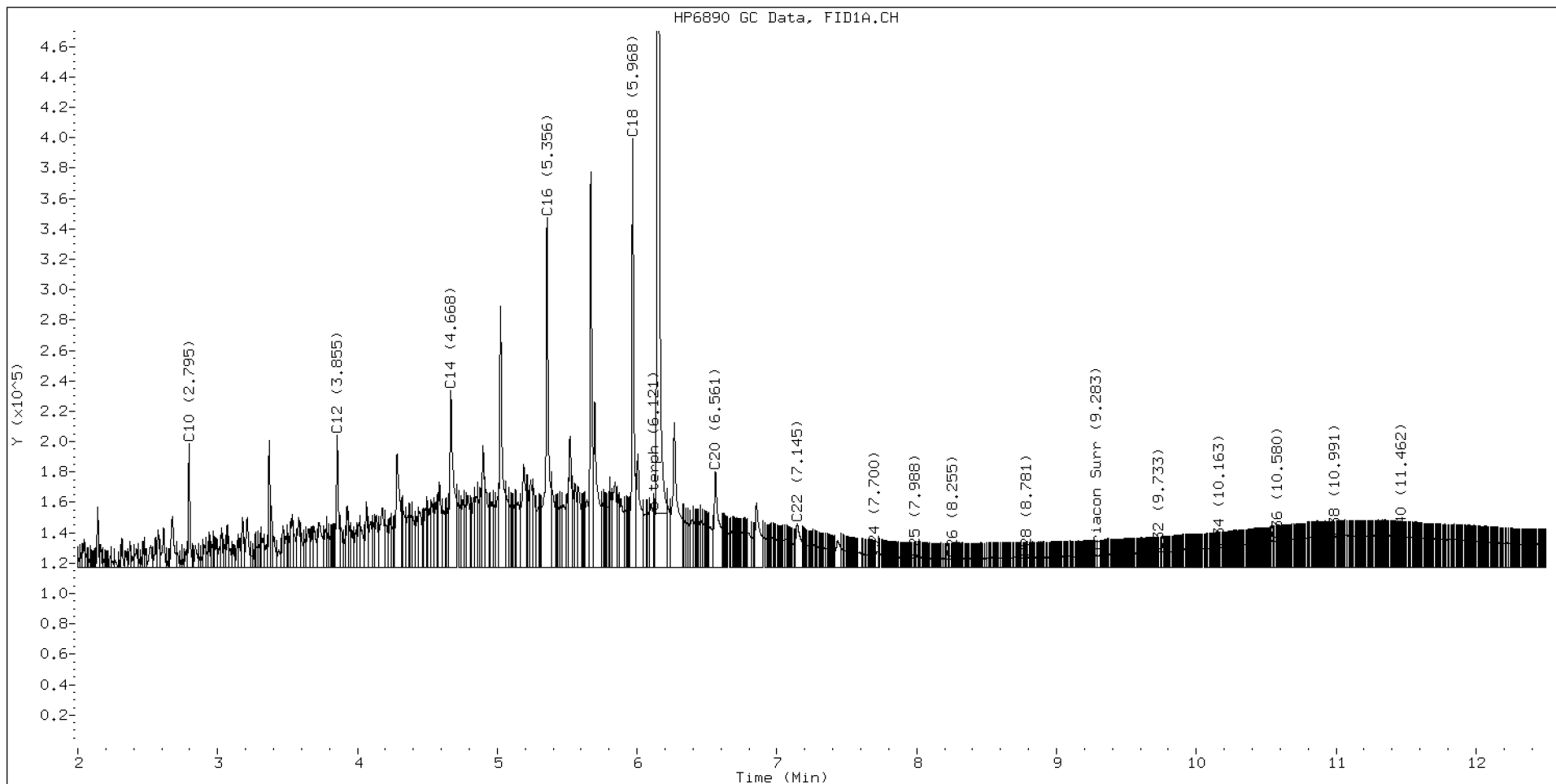
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.573	0.007	15338	20252	WATPHD	(C12-C24)	8028754	55.1
C10	2.795	-0.006	81672	65077	WATPHM	(C24-C38)	2037226	15.4
C12	3.855	-0.004	86965	104157	AK102	(C10-C25)	9339553	54.2
C14	4.668	-0.000	116967	216690	AK103	(C25-C36)	1483675	15.0
C16	5.356	-0.000	230714	351734	OR.DIES	(C10-C28)	9670423	55.7
C18	5.968	-0.004	282441	311477				
C20	6.561	0.001	63255	147690				
C22	7.145	0.004	29238	69293				
C24	7.700	-0.009	8237	3255				
C25	7.988	0.001	6644	1311				
C26	8.255	-0.002	5954	1181				
C28	8.781	0.005	6673	2975				
C32	9.733	0.003	10129	2011				
C34	10.163	-0.004	13326	7947				
Filter Peak	13.972	-0.001	14657	5117				
C36	10.580	-0.001	17688	3523				
C38	10.991	0.002	20312	5071				
C40	11.462	0.002	20702	9247				
o-terph	6.148	-0.019	2417598	1764034				
Triacon Surr	9.283	-0.006	8236	6415	NAS DIES	(C10-C24)	9264451	53.9

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	1764034	9.2 M
Triacontane	6415	0.0

M Indicates the peak was manually integrated

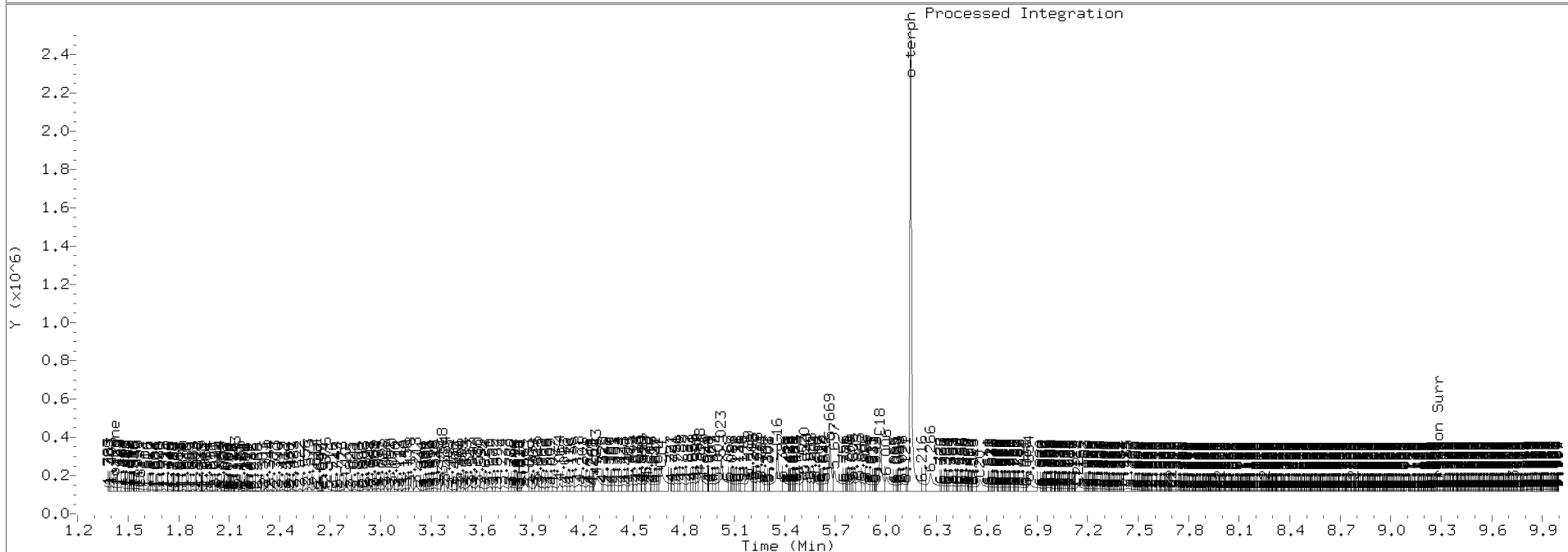
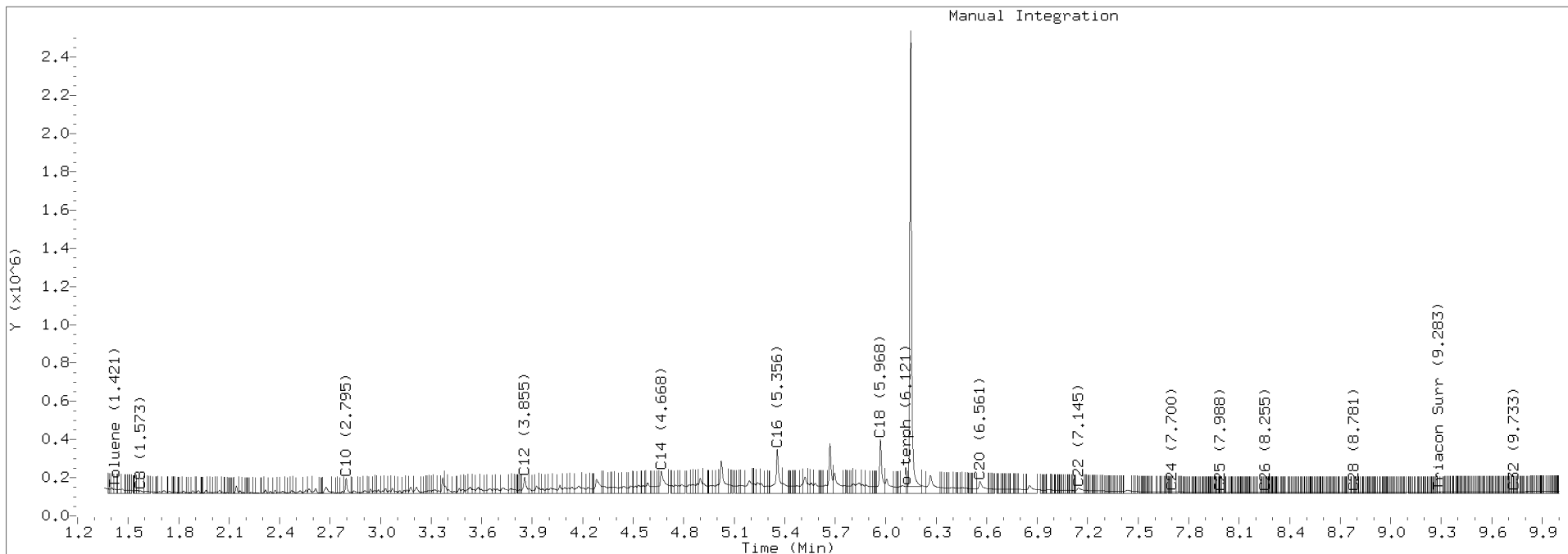
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0620.D Injection: 06-JAN-2022 17:04

Lab ID:SKA0028-CAL1



Data File: \\target\share\chem2\fid4a,1\20220106,b\42240621.D

Date: 06-JAN-2022 17:24

Client ID:

Sample Info: SKR0028-CAL2

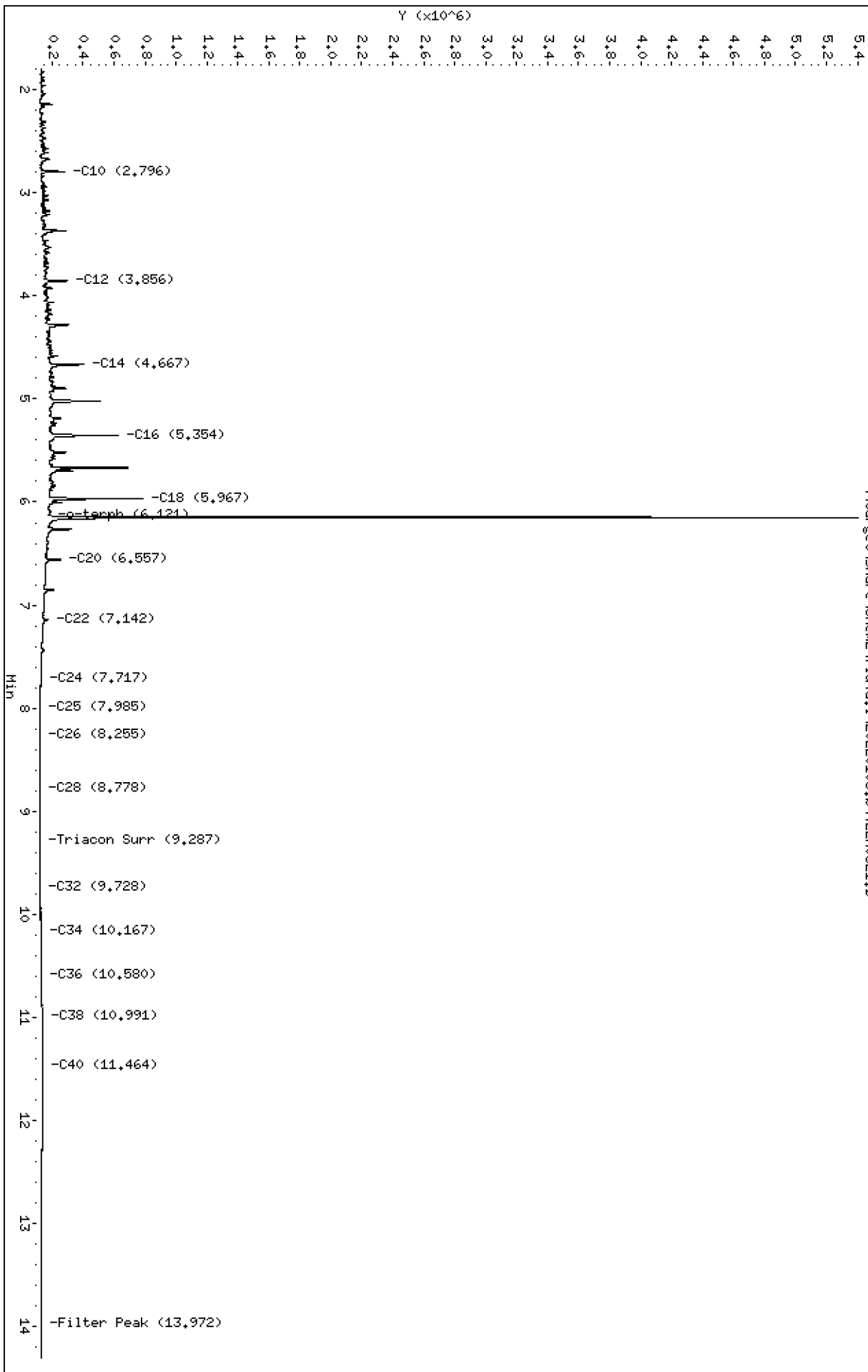
Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20220106,b\42240621.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0621.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL2
Client ID:
Injection: 06-JAN-2022 17:24
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

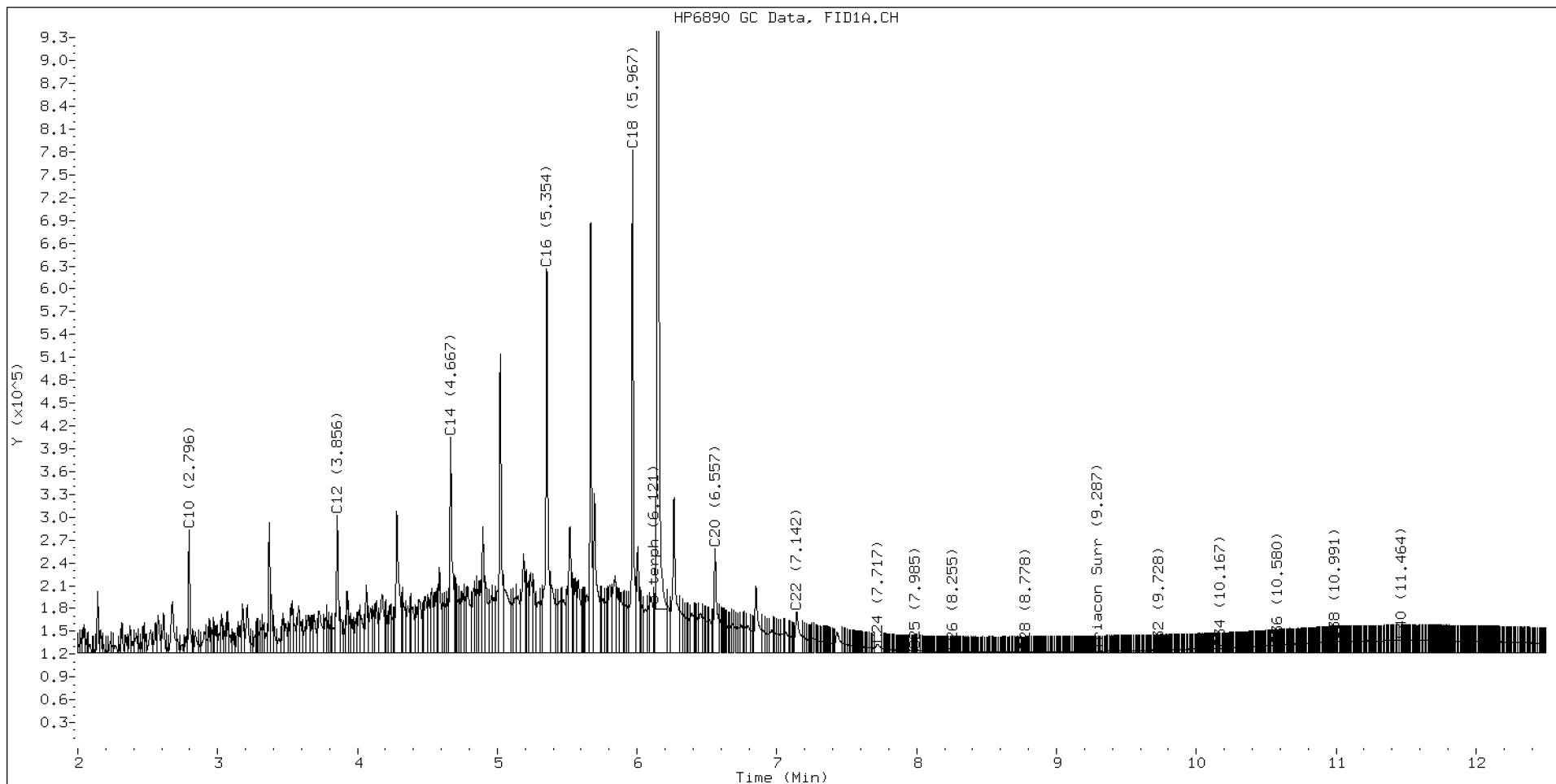
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.572	0.006	20786	18021	WATPHD	(C12-C24)	13661549	93.7
C10	2.796	-0.006	161152	124997	WATPHM	(C24-C38)	775894	5.9
C12	3.856	-0.003	179883	198743	AK102	(C10-C25)	15935433	92.5
C14	4.667	-0.001	282171	343474	AK103	(C25-C36)	446614	4.5
C16	5.354	-0.002	504309	583607	OR.DIES	(C10-C28)	15982185	92.0
C18	5.967	-0.005	660403	605900				
C20	6.557	-0.002	136222	204809				
C22	7.142	0.000	53551	109679				
C24	7.717	0.009	10621	25685				
C25	7.985	-0.001	2592	1028				
C26	8.255	-0.002	768	194				
C28	8.778	0.003	541	121				
C32	9.728	-0.001	2995	1187				
C34	10.167	-0.001	5541	2455				
Filter Peak	13.972	-0.001	6922	1721				
C36	10.580	-0.001	9867	3900				
C38	10.991	0.002	14550	8634				
C40	11.464	0.004	16024	4780				
o-terph	6.151	-0.016	5223845	3443943				
Triacon Surr	9.287	-0.002	1413	888	NAS DIES	(C10-C24)	15901683	92.6

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	3443943	17.9 M
Triacontane	888	0.0

M Indicates the peak was manually integrated

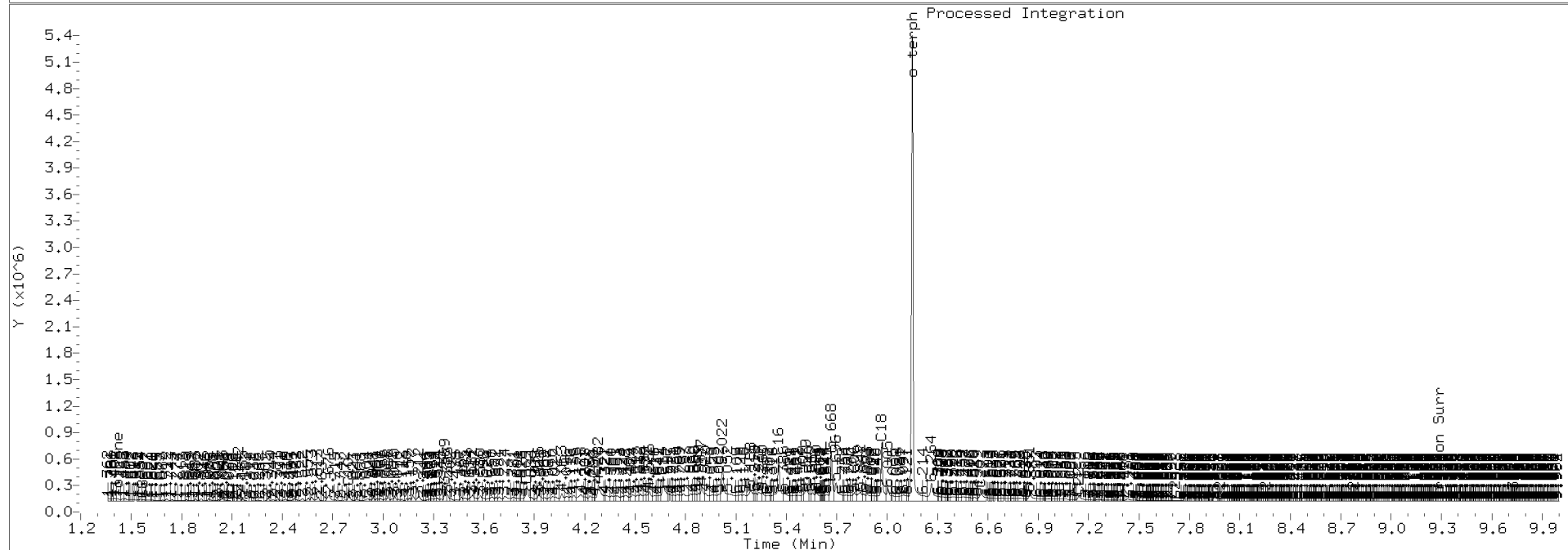
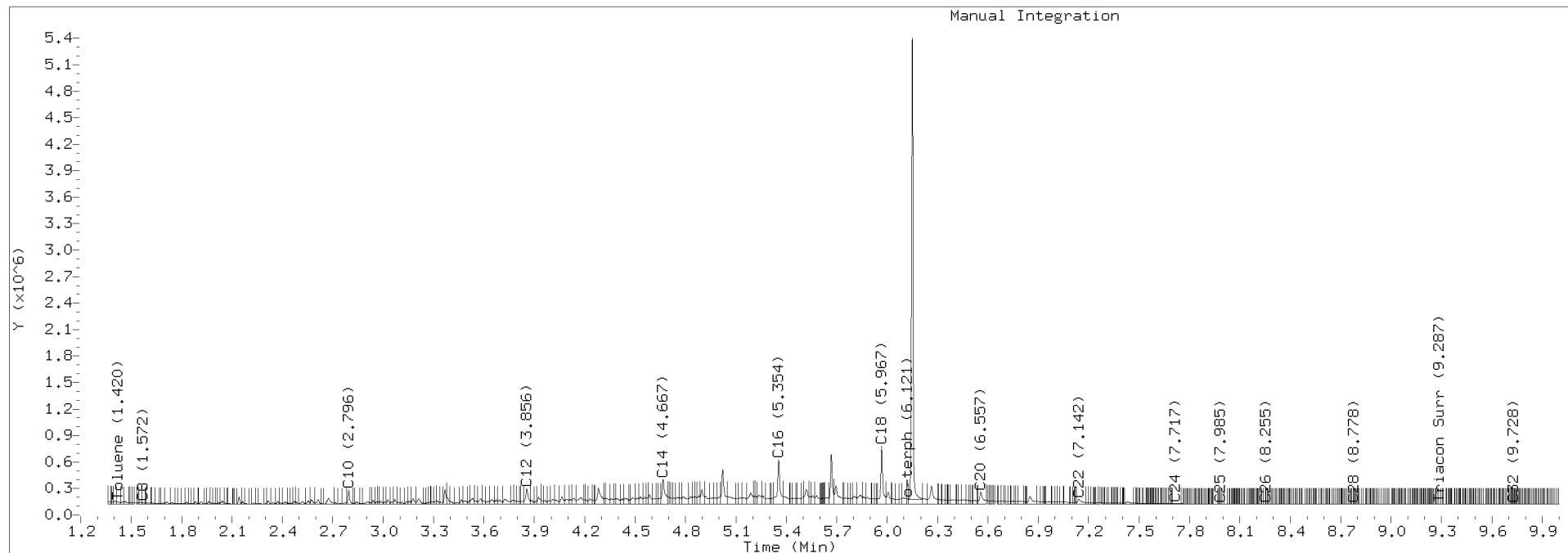
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0621.D Injection: 06-JAN-2022 17:24

Lab ID:SKA0028-CAL2



Data File: \\target\share\chem2\fid4a,1\20220106_b\42240622.D

Date: 06-JAN-2022 17:44

Client ID:

Sample Info: SKR0028-CAL3

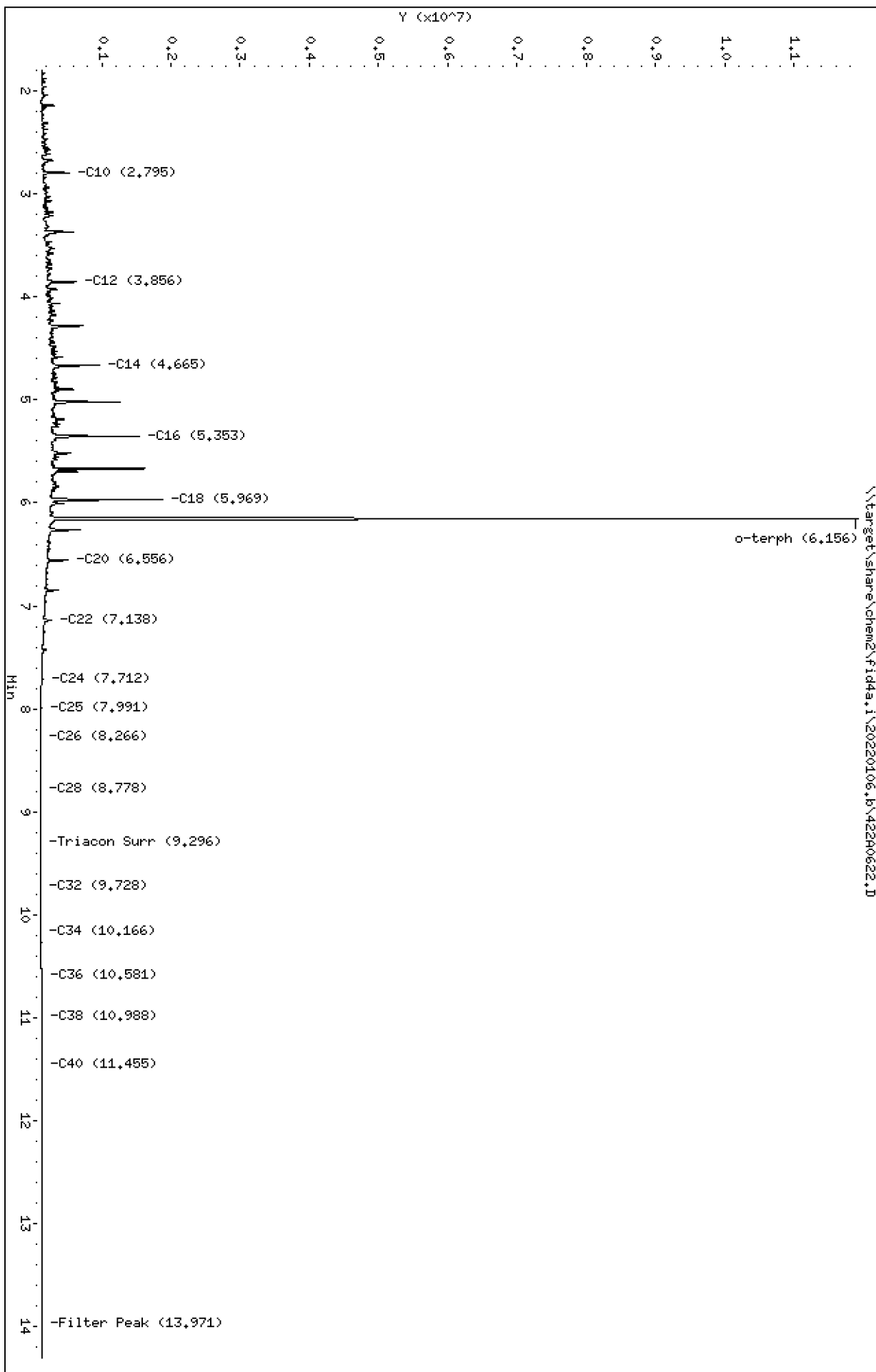
Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0622.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL3
Client ID:
Injection: 06-JAN-2022 17:44
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

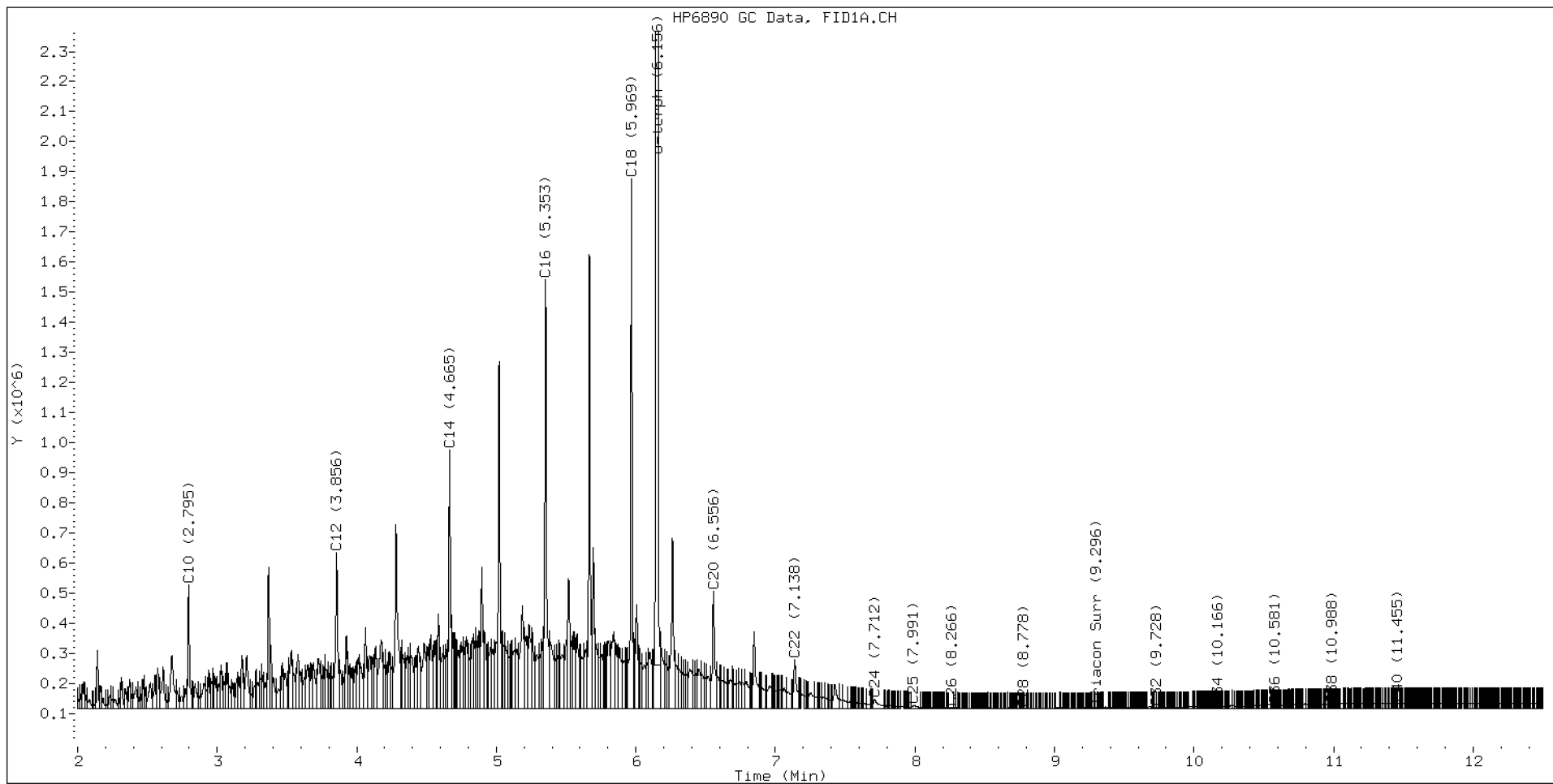
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.572	0.006	35638	34663	WATPHD	(C12-C24)	35852869	246.0
C10	2.795	-0.007	410179	344559	WATPHM	(C24-C38)	949048	7.2
C12	3.856	-0.003	515784	582152	AK102	(C10-C25)	42950156	249.4
C14	4.665	-0.003	858731	722985	AK103	(C25-C36)	560256	5.7
C16	5.353	-0.003	1423491	1292719	OR.DIES	(C10-C28)	43044005	247.7
C18	5.969	-0.003	1759462	1374486				
C20	6.556	-0.003	388025	471390				
C22	7.138	-0.003	163271	235444				
C24	7.712	0.003	29811	80694				
C25	7.991	0.004	10324	25743				
C26	8.266	0.009	3610	5486				
C28	8.778	0.003	883	249				
C32	9.728	-0.002	3716	916				
C34	10.166	-0.001	5965	1187				
Filter Peak	13.971	-0.002	17613	10511				
C36	10.581	-0.001	10913	4778				
C38	10.988	-0.001	14485	4331				
C40	11.455	-0.005	16101	9545				
o-terph	6.156	-0.011	11664546	8265436				
Triacon Surr	9.296	0.006	1660	1039	NAS DIES	(C10-C24)	42884704	249.7

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	8265436	43.0 M
Triacontane	1039	0.0

M Indicates the peak was manually integrated

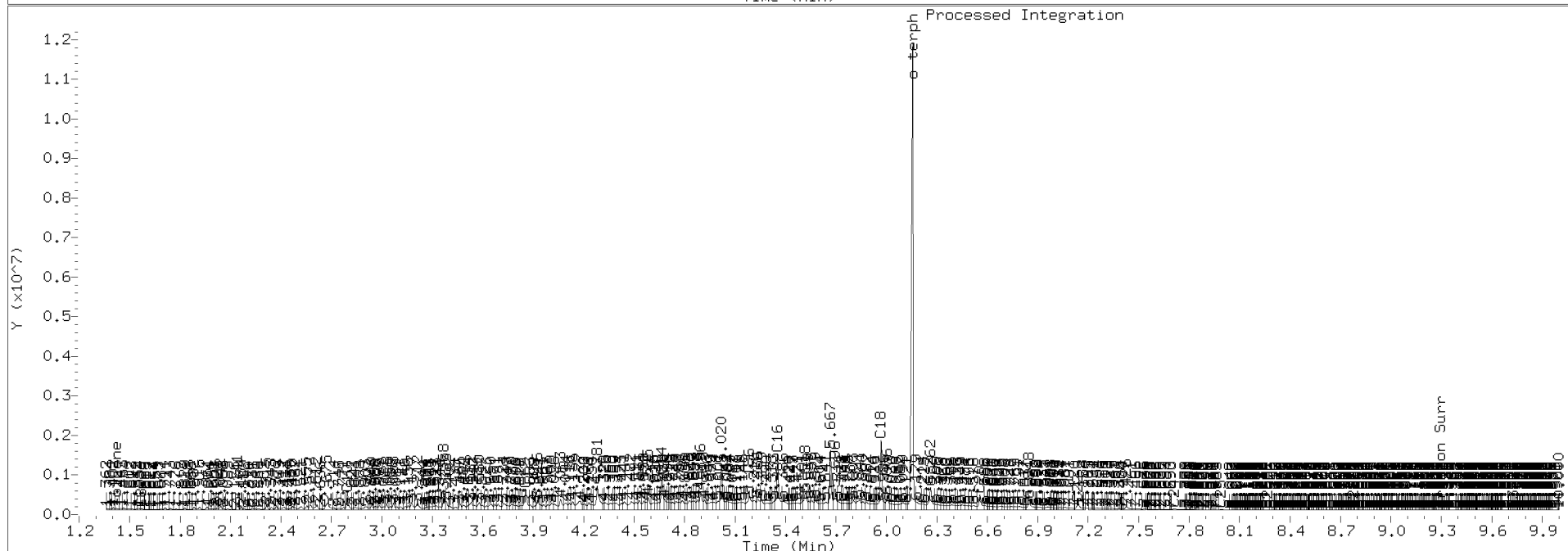
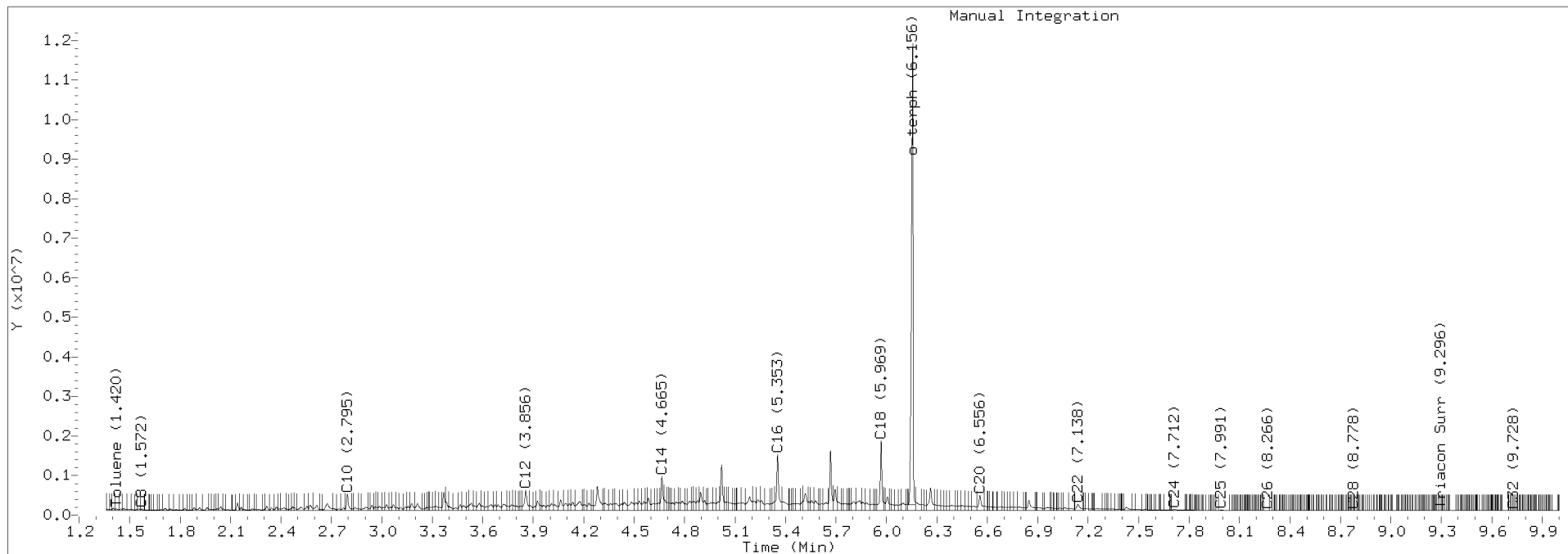
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0622.D Injection: 06-JAN-2022 17:44

Lab ID:SKA0028-CAL3



Data File: \\target\share\chem2\fid4a,1\20220106,b\42240623.D

Date : 06-JAN-2022 18:04

Client ID:

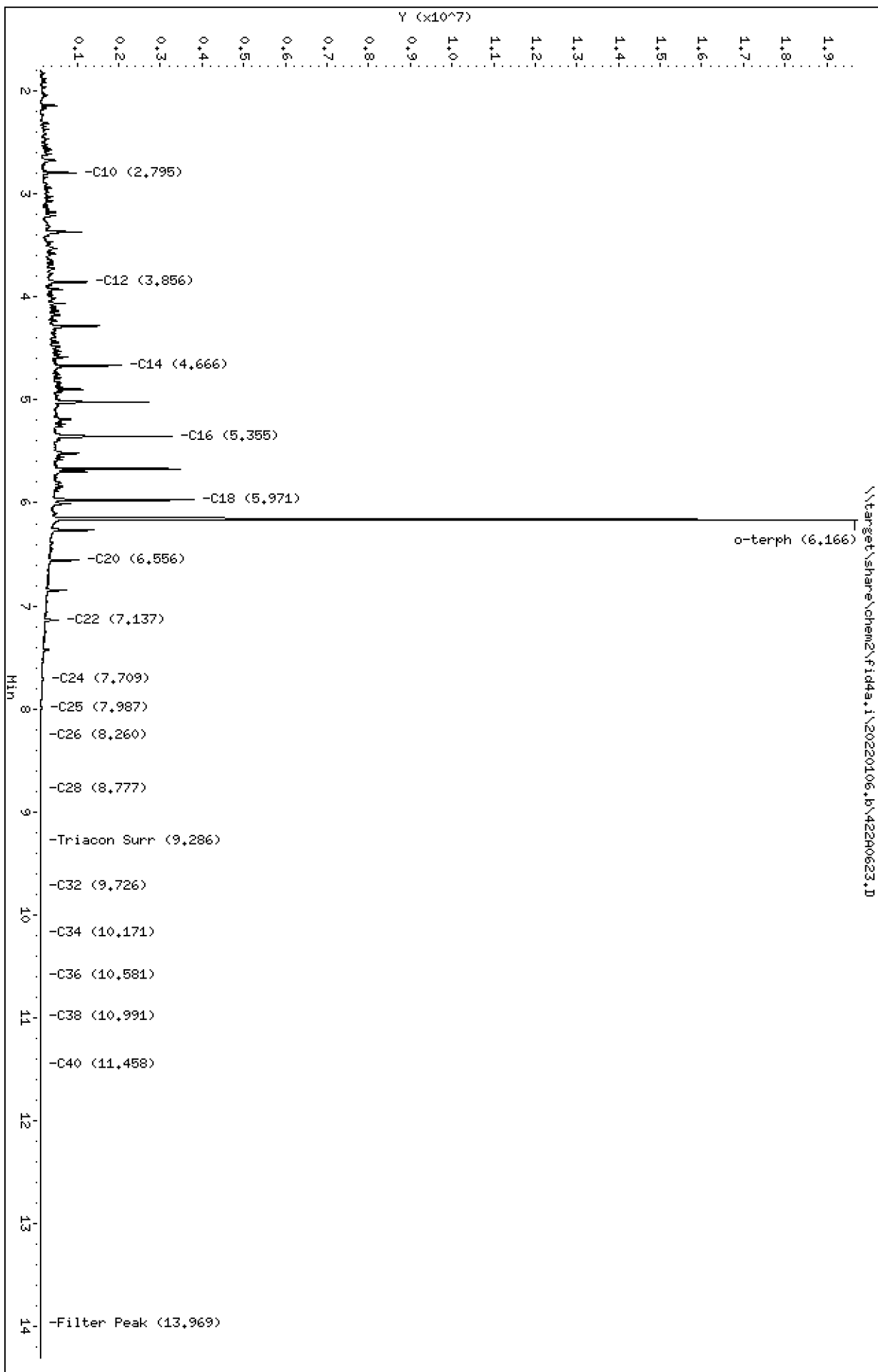
Sample Info: SKR0028-CAL4

Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0623.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL4
Client ID:
Injection: 06-JAN-2022 18:04
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

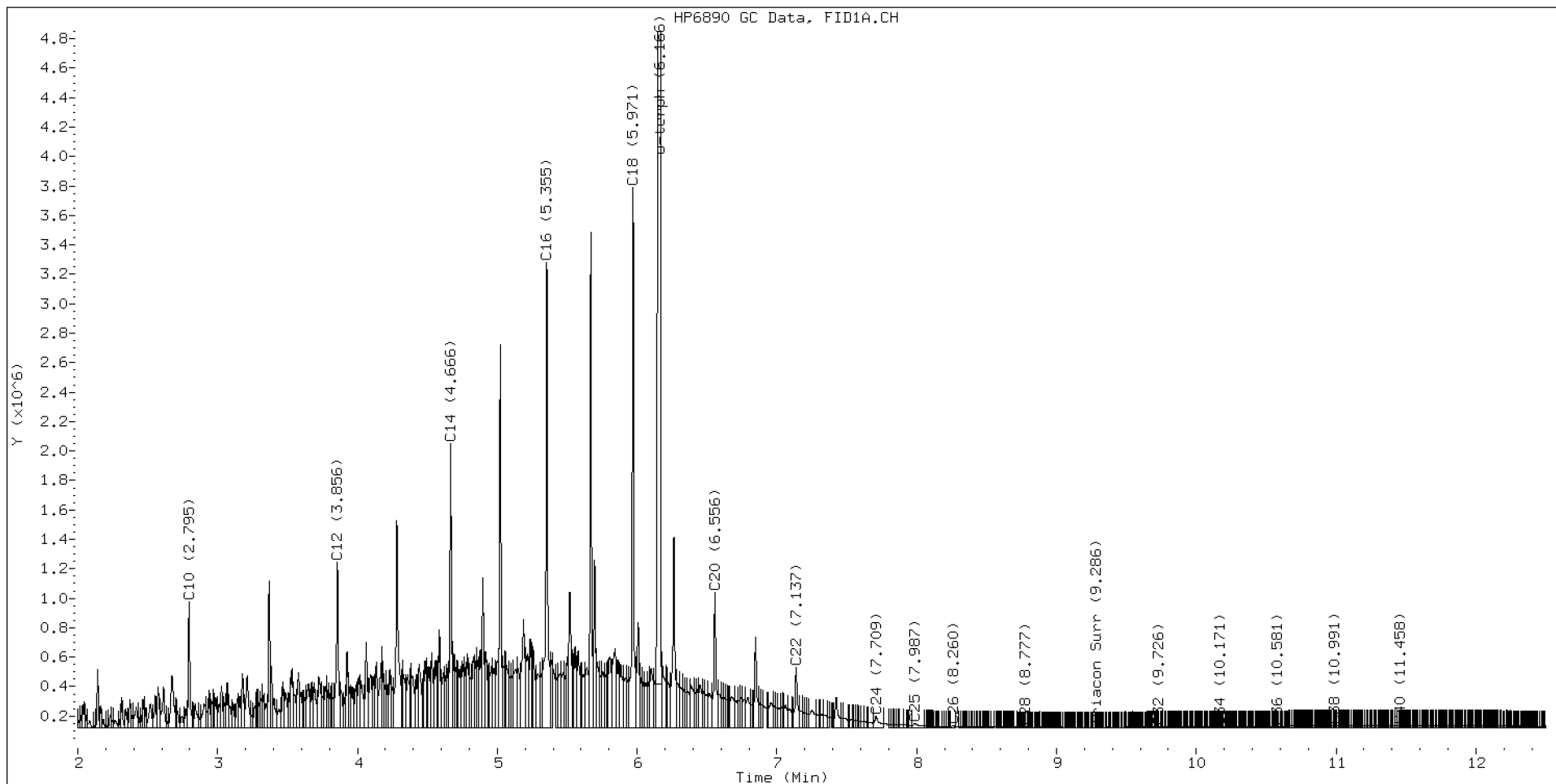
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.572	0.006	50289	35421	WATPHD	(C12-C24)	74169645	508.9
C10	2.795	-0.007	851047	675508	WATPHM	(C24-C38)	1011222	7.6
C12	3.856	-0.002	1123462	1175454	AK102	(C10-C25)	87851032	510.1
C14	4.666	-0.002	1930255	1490105	AK103	(C25-C36)	604622	6.1
C16	5.355	-0.002	3157304	3083911	OR.DIES	(C10-C28)	88156626	507.3
C18	5.971	-0.001	3669877	3275446				
C20	6.556	-0.003	918407	1037516				
C22	7.137	-0.004	411635	525361				
C24	7.709	0.000	77933	181190				
C25	7.987	0.001	28231	86033				
C26	8.260	0.003	11311	17999				
C28	8.777	0.002	2202	1181				
C32	9.726	-0.003	2133	701				
C34	10.171	0.004	4371	2128				
Filter Peak	13.969	-0.004	5408	2879				
C36	10.581	-0.001	7813	2332				
C38	10.991	0.002	11755	5790				
C40	11.458	-0.002	11828	4712				
o-terph	6.166	-0.002	19318669	17791123				
Triacon Surr	9.286	-0.003	1061	435	NAS DIES	(C10-C24)	87704342	510.7

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	17791123	92.7 M
Triacontane	435	0.0

M Indicates the peak was manually integrated

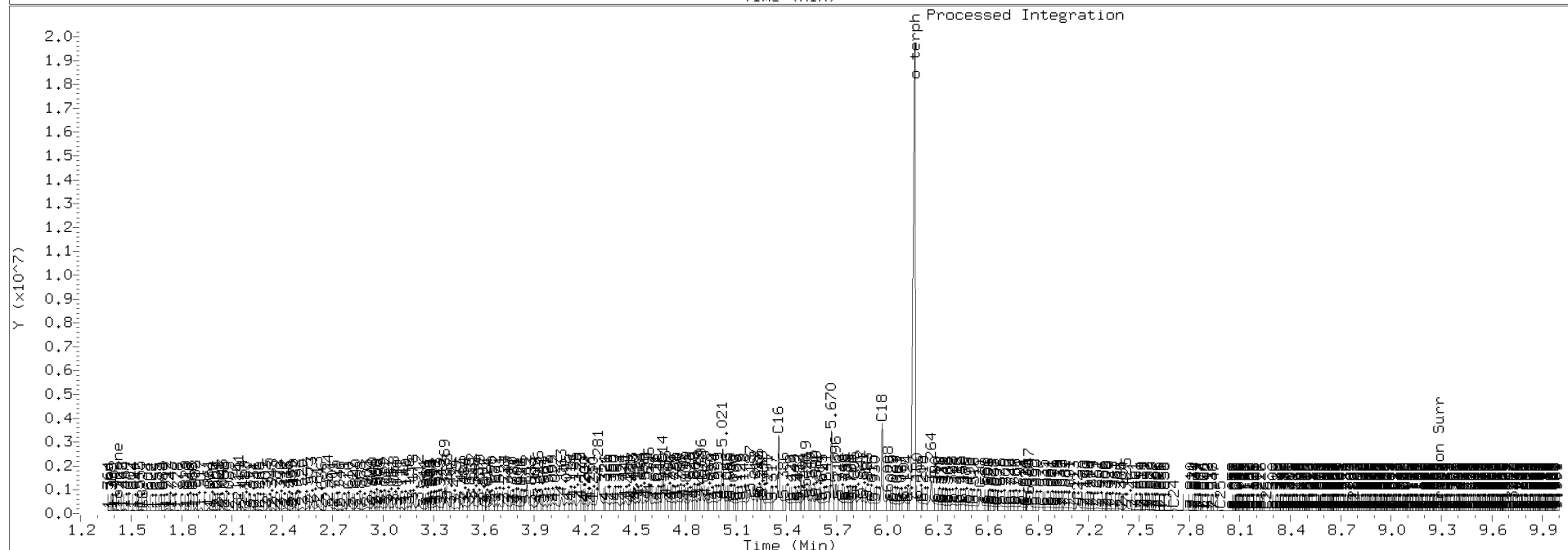
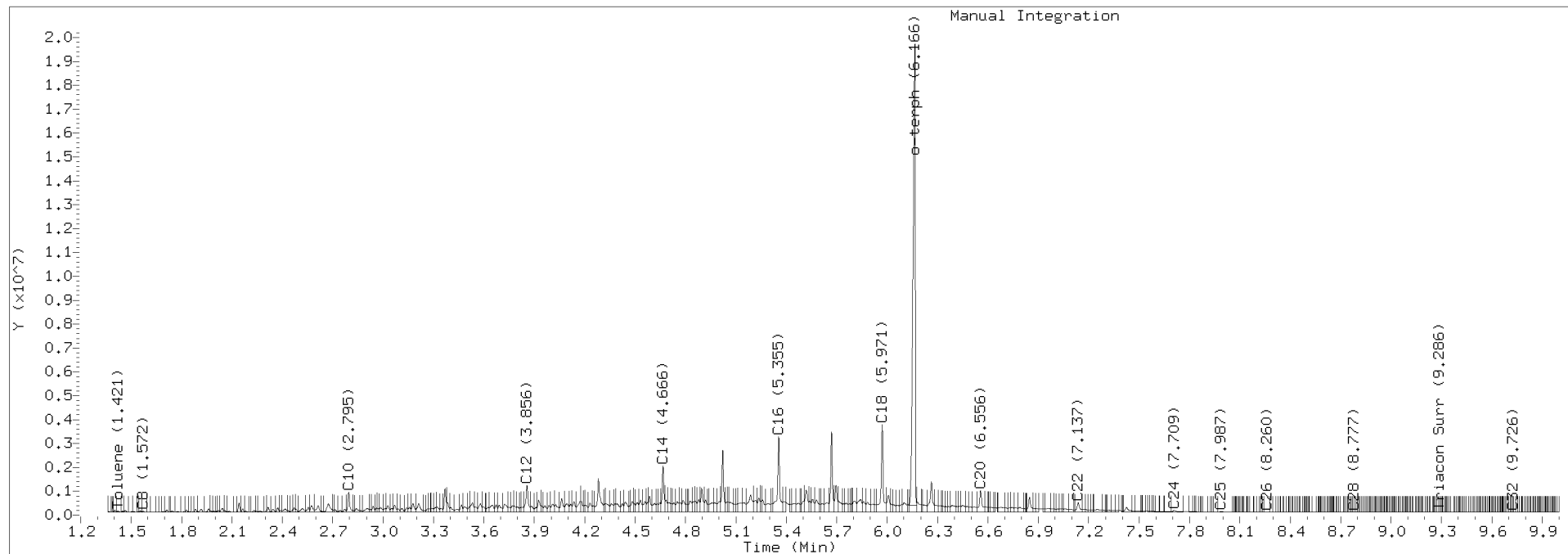
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0623.D Injection: 06-JAN-2022 18:04

Lab ID:SKA0028-CAL4



Data File: \\target\share\chem2\fid4a,1\20220106_b\42240624.D

Date: 06-JAN-2022 18:23

Client ID:

Sample Info: SKR0028-CALS

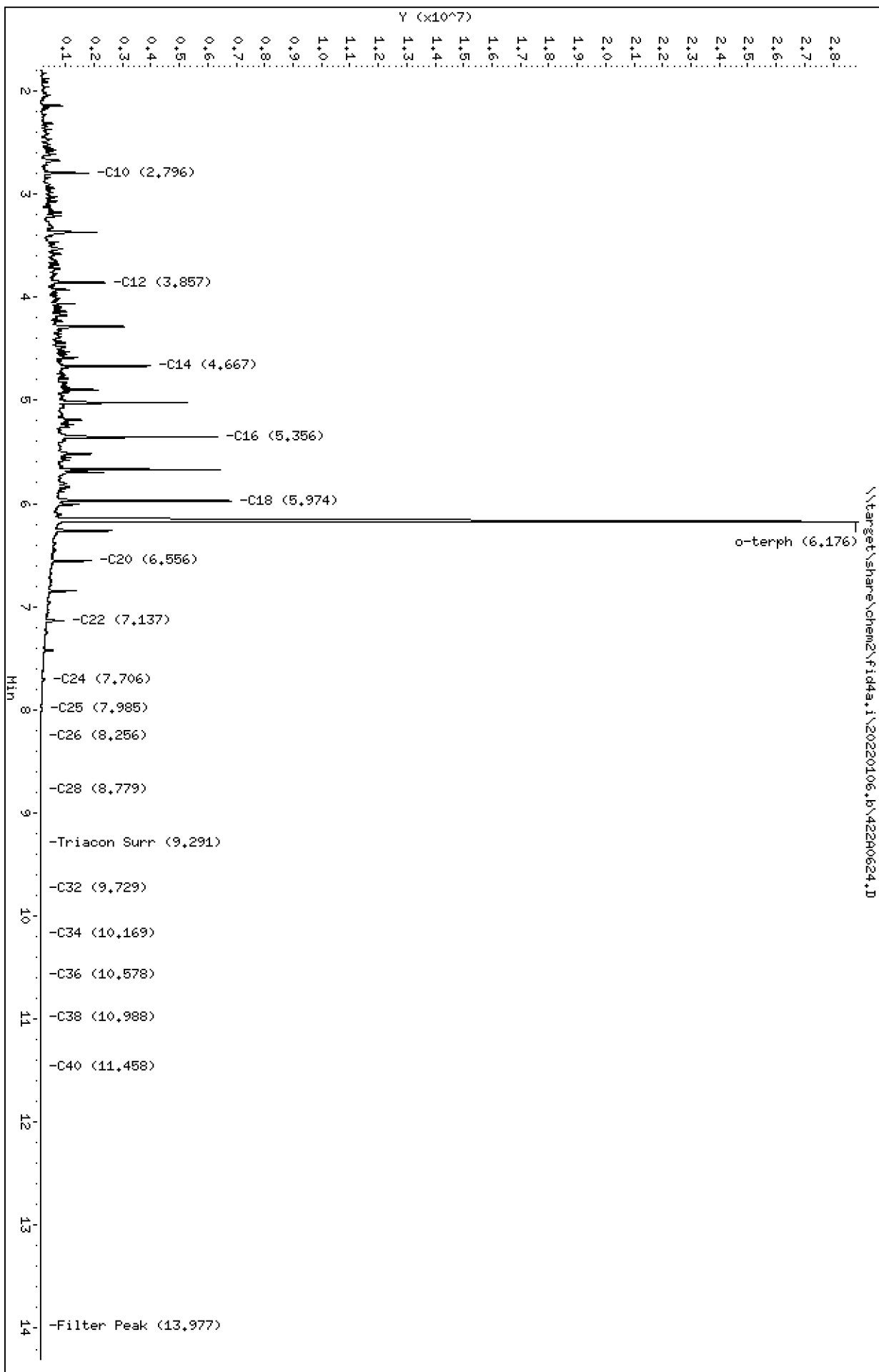
Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0624.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL5
Client ID:
Injection: 06-JAN-2022 18:23
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

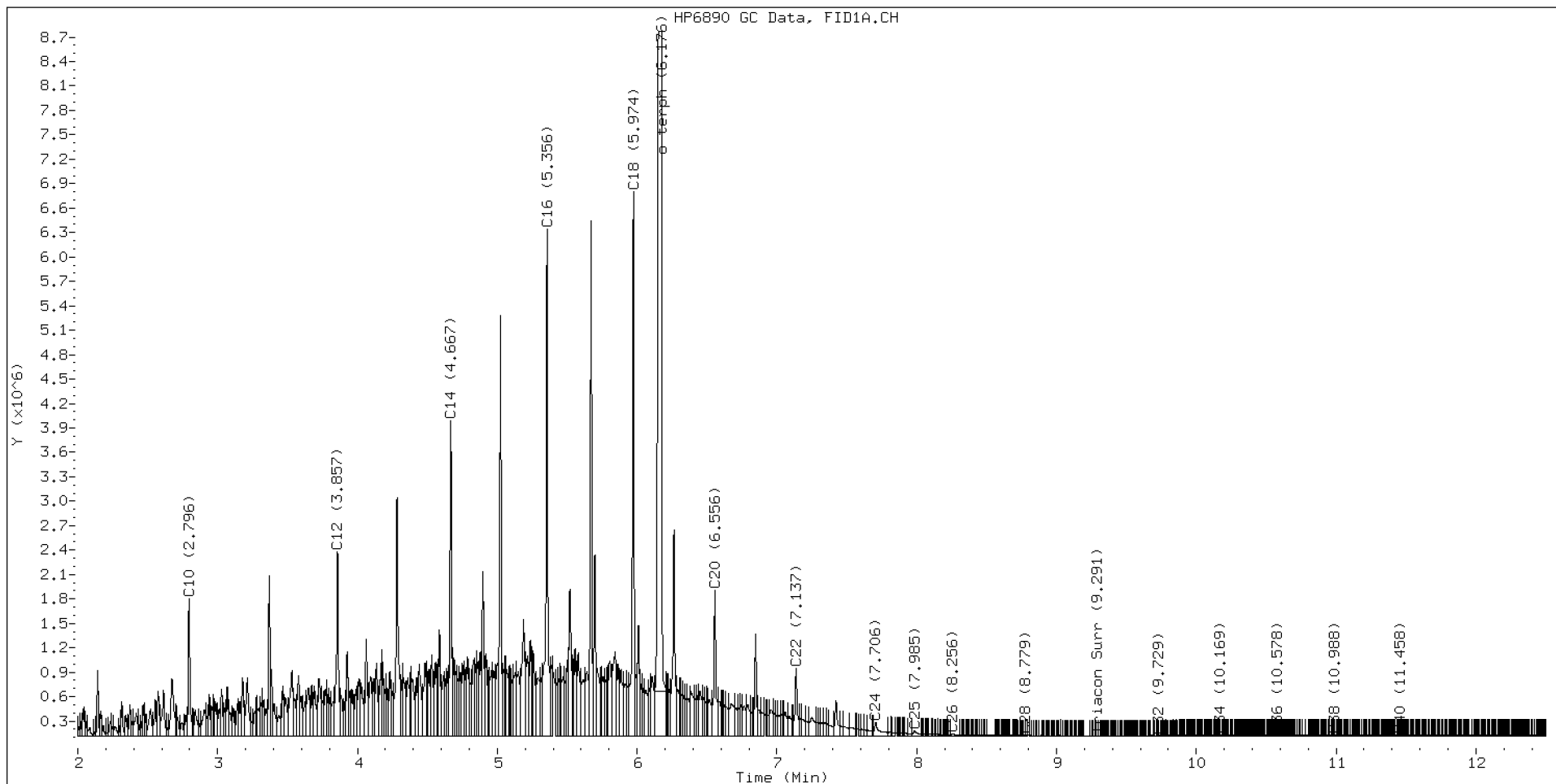
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.572	0.006	110978	82011	WATPHD	(C12-C24)	143059614	981.5
C10	2.796	-0.006	1681725	1354415	WATPHM	(C24-C38)	1228122	9.3
C12	3.857	-0.002	2259637	2417085	AK102	(C10-C25)	170586045	990.4
C14	4.667	-0.001	3871853	2951233	AK103	(C25-C36)	785072	7.9
C16	5.356	0.000	6222940	5914195	OR.DIES	(C10-C28)	171119000	984.8
C18	5.974	0.002	6685434	5816539				
C20	6.556	-0.003	1789628	1922636				
C22	7.137	-0.004	822372	959687				
C24	7.706	-0.002	163980	415588				
C25	7.985	-0.002	58487	130093				
C26	8.256	-0.001	22020	52987				
C28	8.779	0.003	3355	2205				
C32	9.729	-0.001	1594	532				
C34	10.169	0.002	3672	1245				
Filter Peak	13.977	0.004	14444	7636				
C36	10.578	-0.003	7675	2262				
C38	10.988	-0.001	10670	3695				
C40	11.458	-0.002	12076	7185				
o-terph	6.176	0.008	28225181	34250761				
Triacon Surr	9.291	0.001	609	333	NAS DIES	(C10-C24)	170364327	991.9

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	34250761	178.4 M
Triacontane	333	0.0

M Indicates the peak was manually integrated

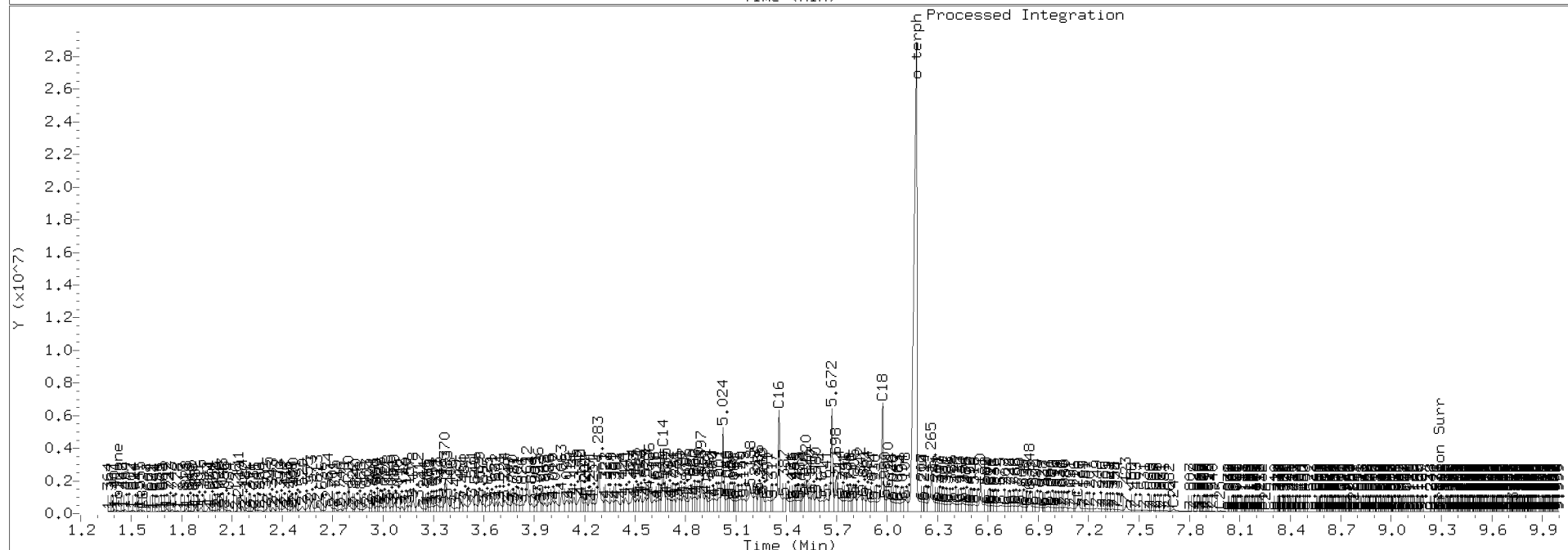
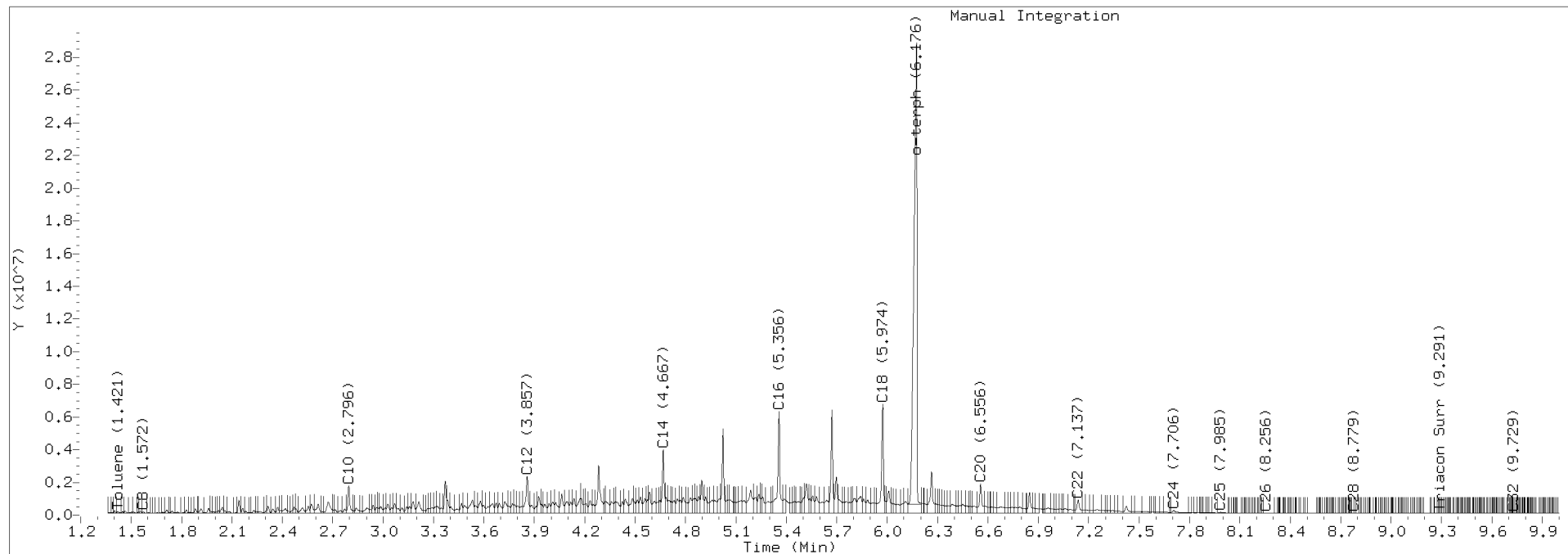
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0624.D Injection: 06-JAN-2022 18:23

Lab ID:SKA0028-CAL5



Data File: \\target\share\chem2\fid4a,1\20220106_b\42240625.D

Date: 06-JAN-2022 18:43

Client ID:

Sample Info: SKR0028-CAL6

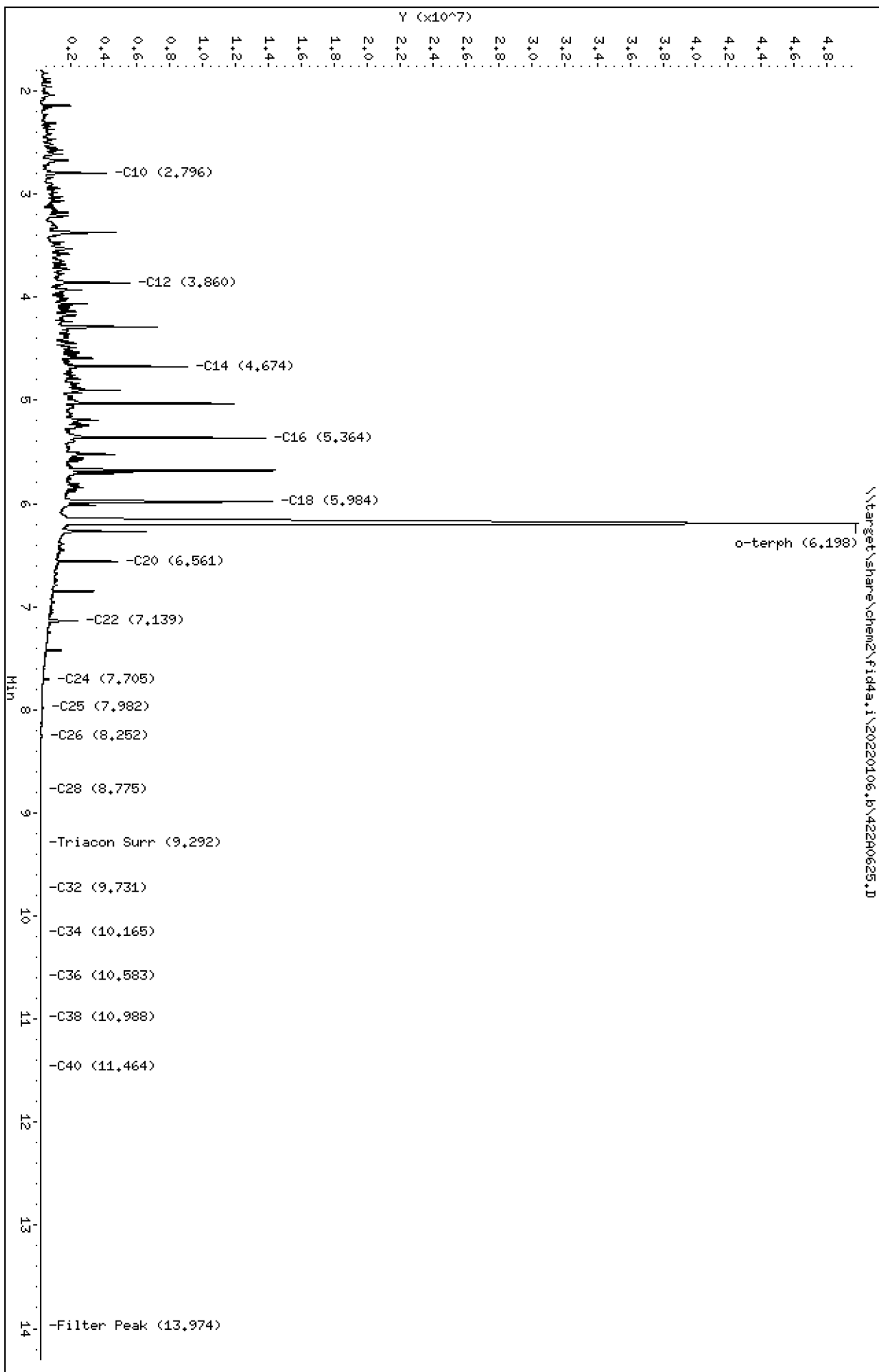
Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0625.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL6
Client ID:
Injection: 06-JAN-2022 18:43
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

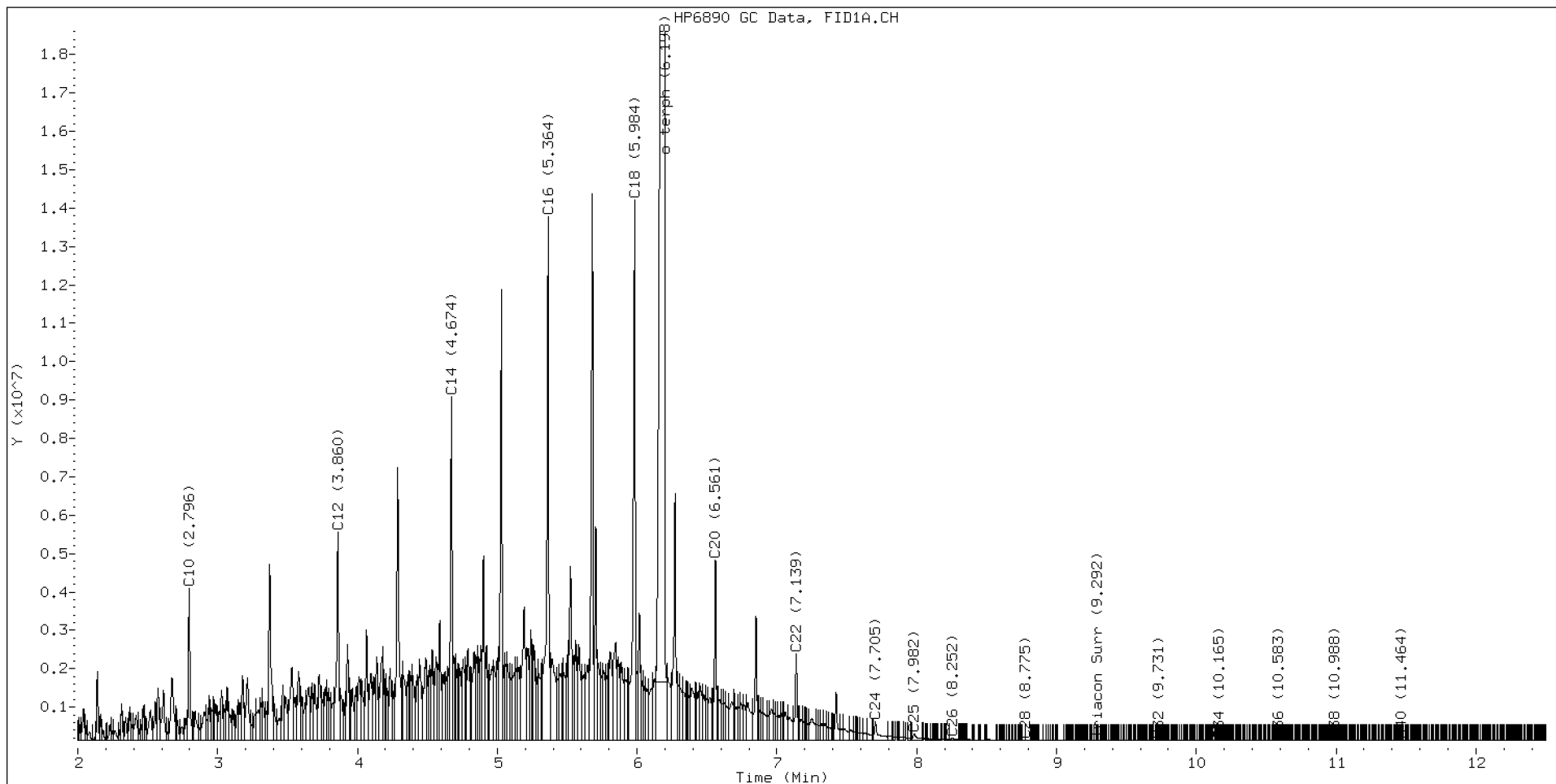
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.569	0.003	219608	155301	WATPHD	(C12-C24)	356255804	2444.3
C10	2.796	-0.005	3973287	3259521	WATPHM	(C24-C38)	2644074	19.9
C12	3.860	0.001	5440378	5886234	AK102	(C10-C25)	422948028	2455.6
C14	4.674	0.006	8960698	7404232	AK103	(C25-C36)	1737886	17.6
C16	5.364	0.008	13666519	14545296	OR.DIES	(C10-C28)	424411225	2442.4
C18	5.984	0.012	14095220	14858007				
C20	6.561	0.001	4708901	4277011				
C22	7.139	-0.003	2265394	2325119				
C24	7.705	-0.004	485940	1085400				
C25	7.982	-0.004	177459	377454				
C26	8.252	-0.005	69341	159437				
C28	8.775	-0.000	13167	13048				
C32	9.731	0.001	1236	658				
C34	10.165	-0.002	3039	1610				
Filter Peak	13.974	0.001	1082	341				
C36	10.583	0.001	5257	1306				
C38	10.988	-0.001	7186	2490				
C40	11.464	0.004	6548	1948				
o-terph	6.198	0.031	48259010	86873493				
Triacon Surr	9.292	0.002	1710	1041	NAS DIES	(C10-C24)	422198102	2458.2

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	86873493	452.5 M
Triacontane	1041	0.0

M Indicates the peak was manually integrated

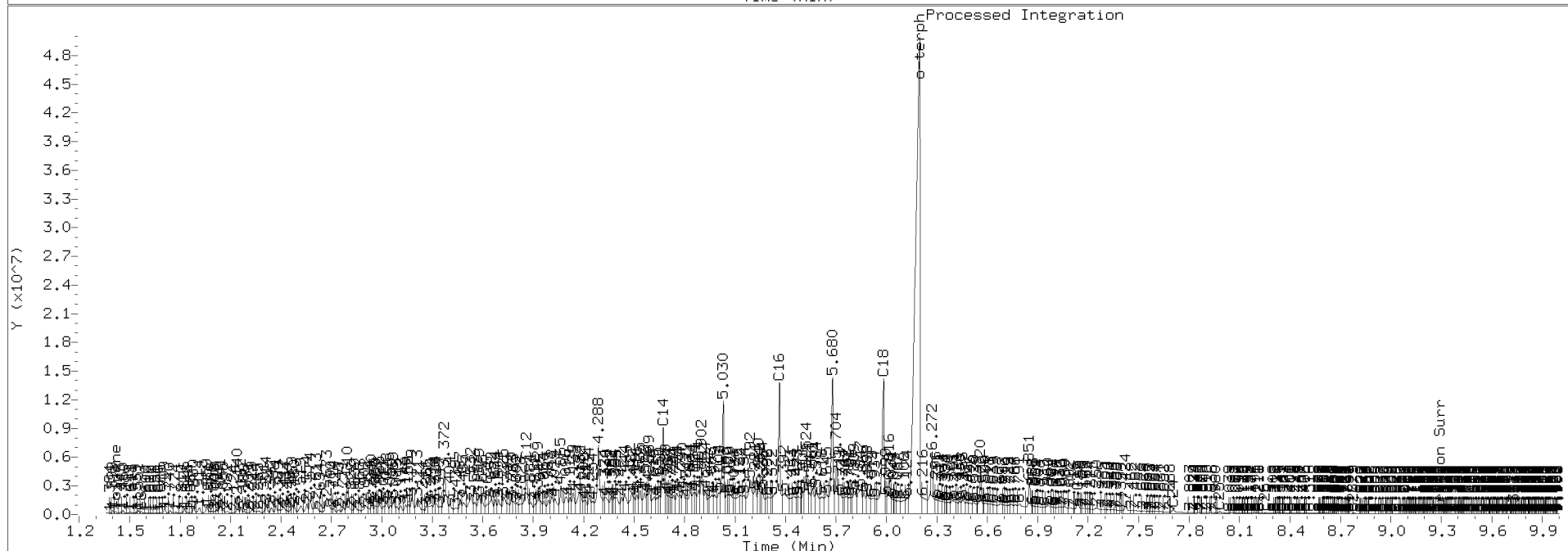
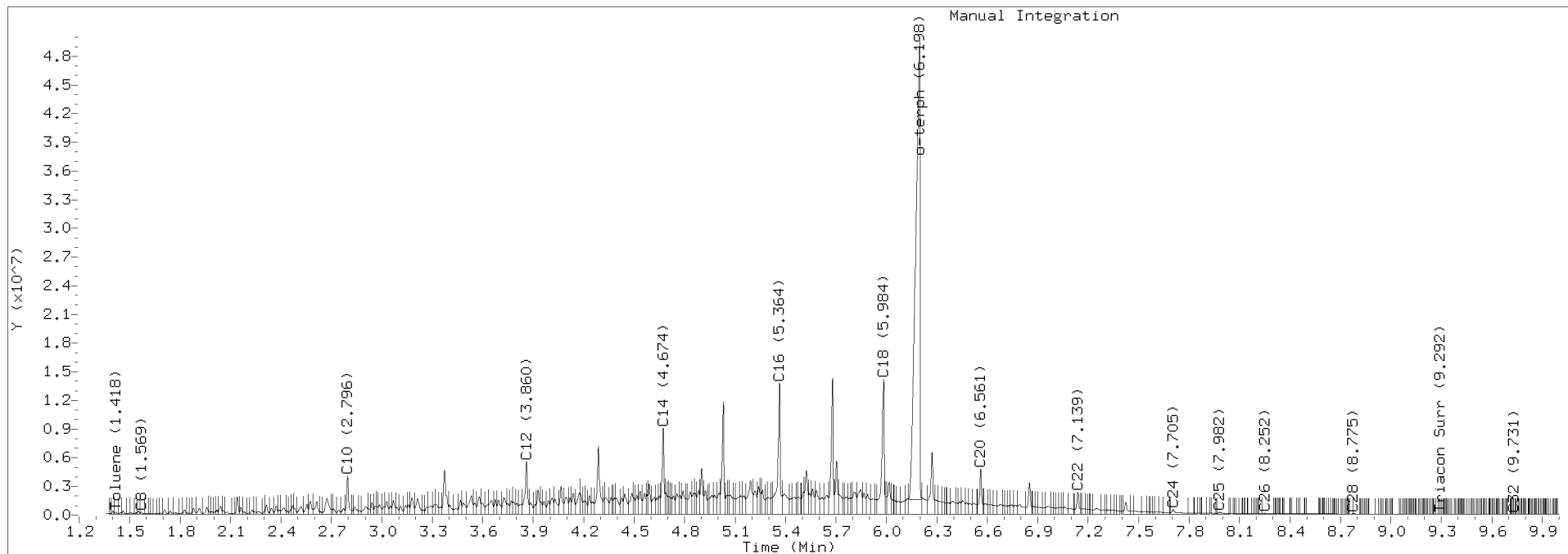
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0625.D Injection: 06-JAN-2022 18:43

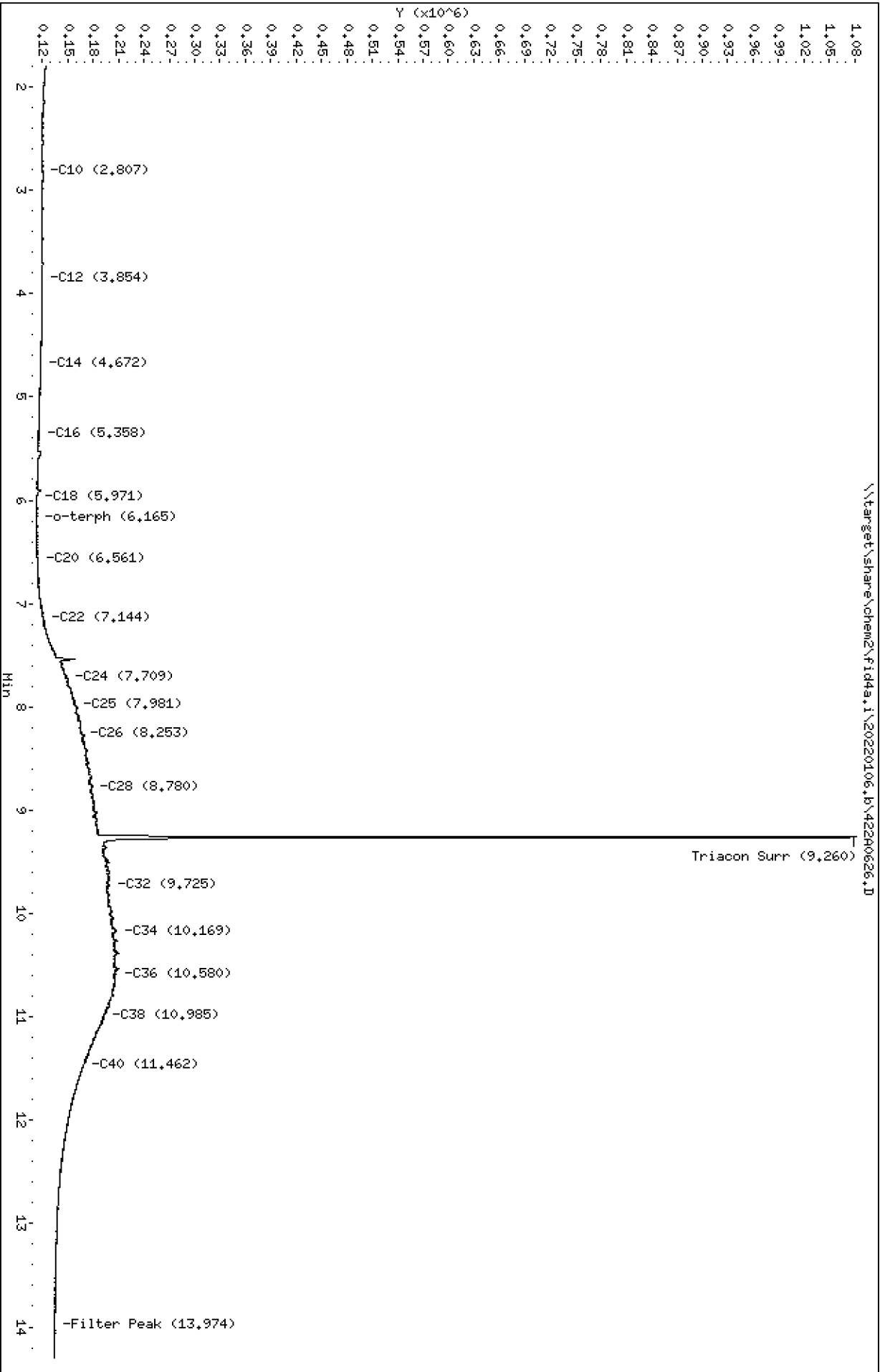
Lab ID:SKA0028-CAL6



Data File: \\target\share\chem2\fid4a,1\20220106.b\42240626.D
 Date: 06-JAN-2022 19:03
 Client ID:
 Sample Info: SKR0028-CAL7

Column phase: RTX-1

Instrument: fid4a,1
 Operator: TMC
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0626.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL7
Client ID:
Injection: 06-JAN-2022 19:03
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

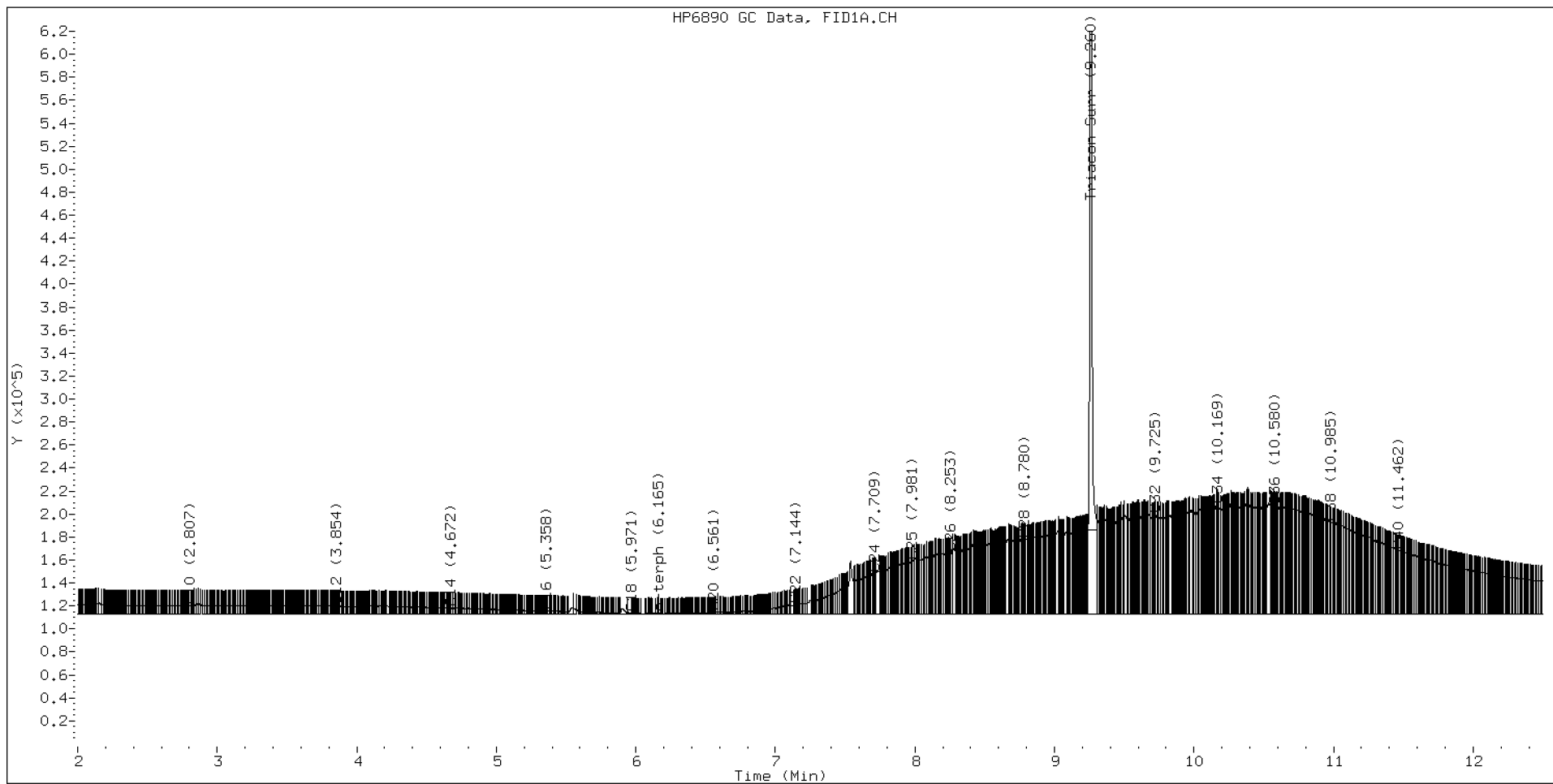
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.567	0.001	17629	12134	WATPHD	(C12-C24)	1428990	9.8
C10	2.807	0.006	7315	5700	WATPHM	(C24-C38)	14418390	108.8
C12	3.854	-0.005	6863	3745	AK102	(C10-C25)	2314627	13.4
C14	4.672	0.004	4948	1225	AK103	(C25-C36)	11930212	120.6
C16	5.358	0.002	2549	743	OR.DIES	(C10-C28)	5302500	30.5
C18	5.971	-0.001	466	165				
C20	6.561	0.002	1433	294				
C22	7.144	0.002	8558	5362				
C24	7.709	-0.000	35231	7021				
C25	7.981	-0.005	45824	15837				
C26	8.253	-0.004	53409	34474				
C28	8.780	0.005	65326	35831				
C32	9.725	-0.005	86340	63871				
C34	10.169	0.002	95121	70488				
Filter Peak	13.974	0.001	21668	9718				
C36	10.580	-0.001	93623	60434				
C38	10.985	-0.004	79927	51632				
C40	11.462	0.002	55525	16626				
o-terph	6.165	-0.003	642	355				
Triacon Surr	9.260	-0.029	895649	780573	NAS DIES	(C10-C24)	1888344	11.0

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	355	0.0
Triacontane	780573	4.5 M

M Indicates the peak was manually integrated

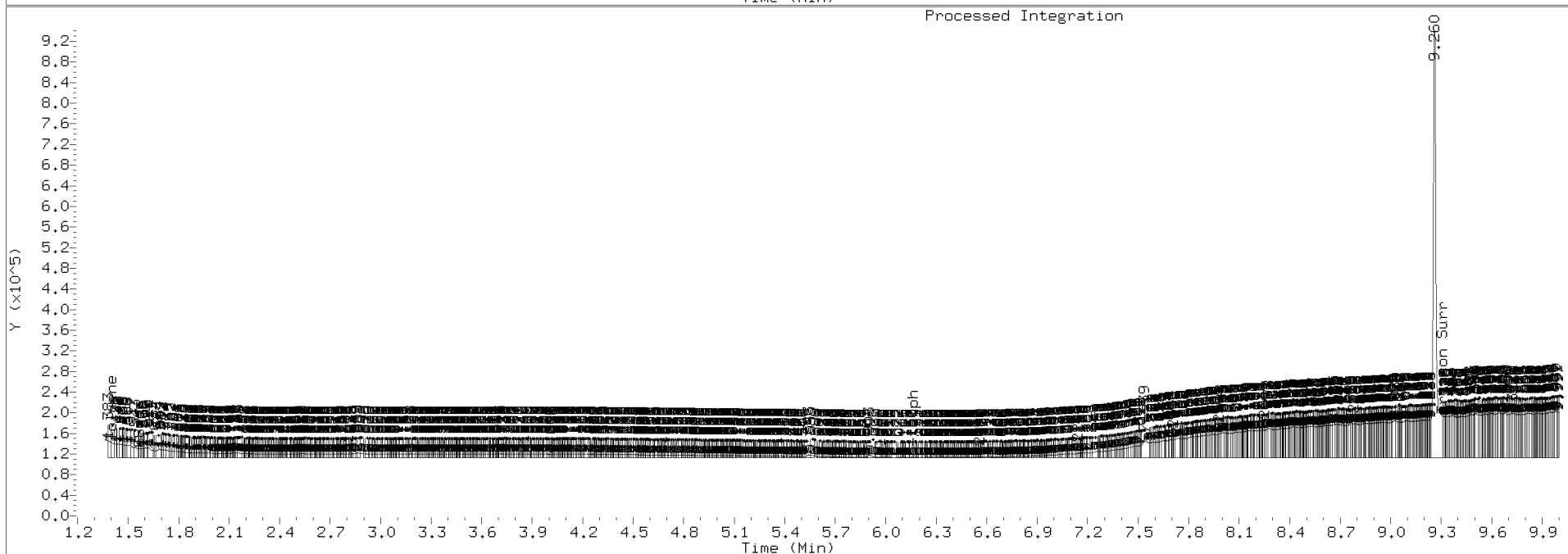
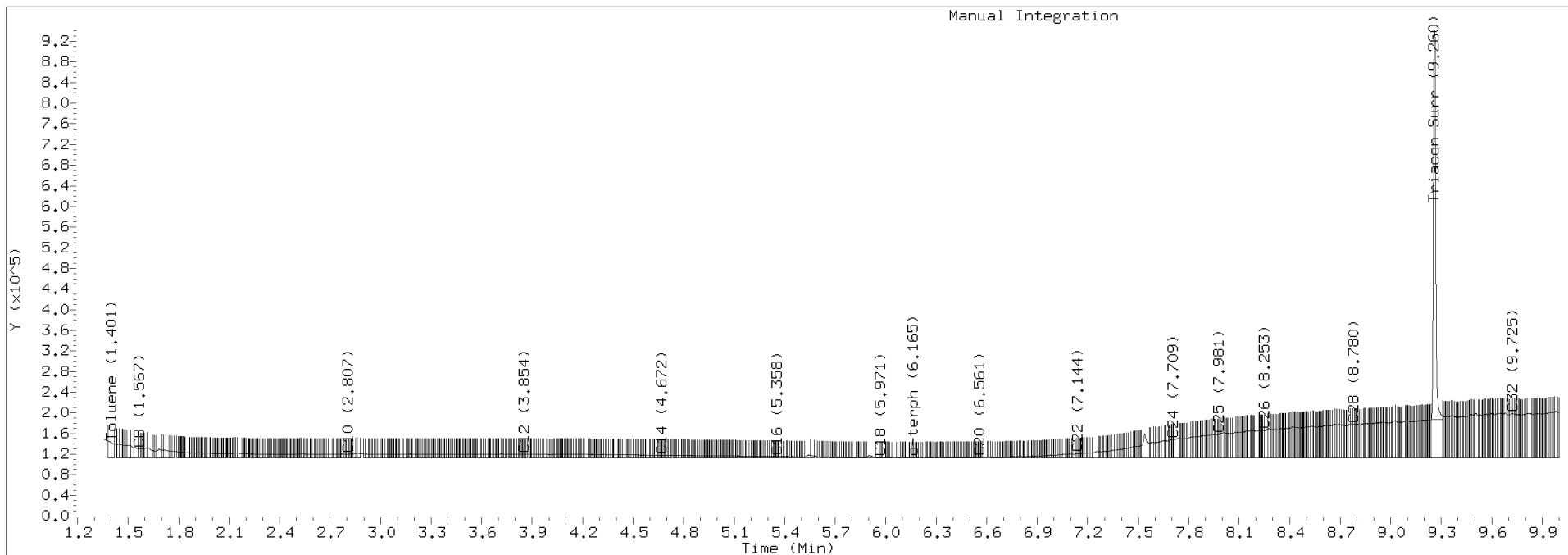
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0626.D Injection: 06-JAN-2022 19:03

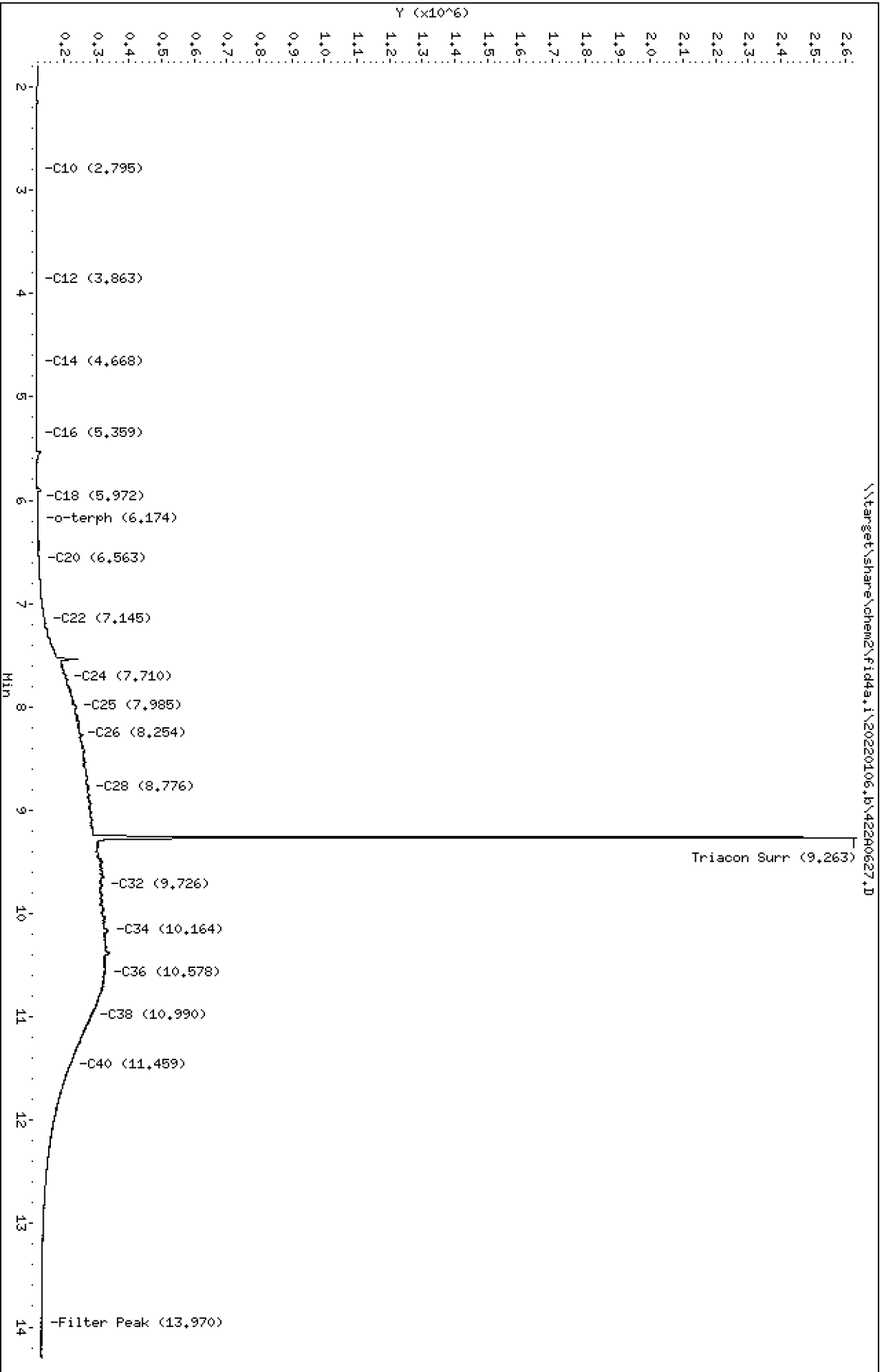
Lab ID:SKA0028-CAL7



Data File: \\target\share\chem2\fid4a,1\20220106.b\42280627.D
Date: 06-JAN-2022 19:23
Client ID:
Sample Info: SKR0028-CAL8

Column phase: RTX-1

Instrument: fid4a,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0627.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL8
Client ID:
Injection: 06-JAN-2022 19:23
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

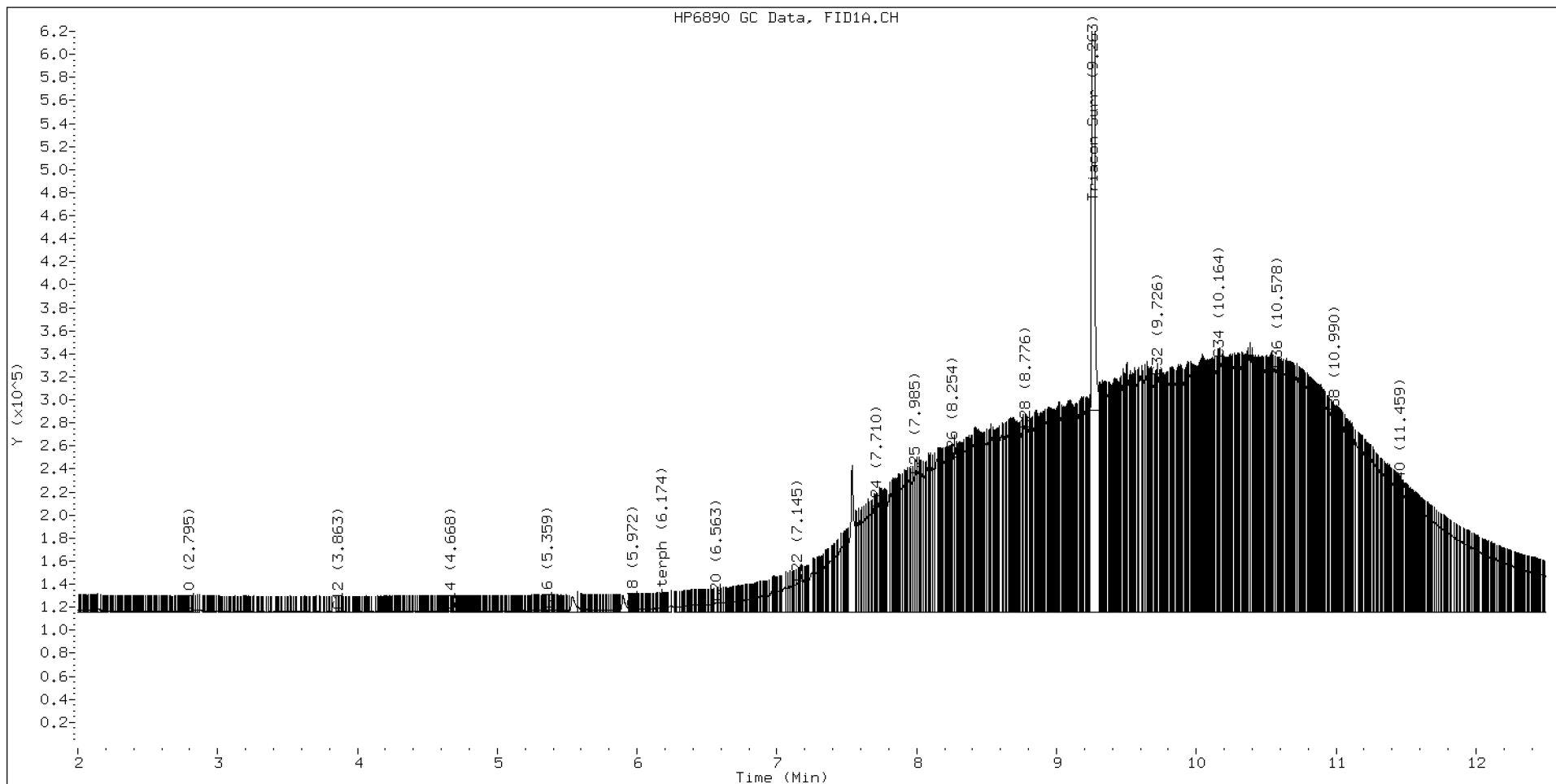
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.564	-0.002	10974	5451	WATPHD	(C12-C24)	2859083	19.6
C10	2.795	-0.006	709	310	WATPHM	(C24-C38)	33910212	255.8
C12	3.863	0.005	301	110	AK102	(C10-C25)	3974861	23.1
C14	4.668	-0.000	959	351	AK103	(C25-C36)	28362150	286.7
C16	5.359	0.003	1341	1255	OR.DIES	(C10-C28)	11300132	65.0
C18	5.972	-0.000	2547	737				
C20	6.563	0.004	8305	10153				
C22	7.145	0.004	24838	24382				
C24	7.710	0.001	89563	22309				
C25	7.985	-0.001	118154	98497				
C26	8.254	-0.003	131978	52511				
C28	8.776	0.001	158032	39436				
C32	9.726	-0.004	204424	200858				
C34	10.164	-0.003	219294	141700				
Filter Peak	13.970	-0.003	15114	5260				
C36	10.578	-0.003	210164	104564				
C38	10.990	0.001	167544	83266				
C40	11.459	-0.000	104690	57072				
o-terph	6.174	0.007	3070	1055				
Triacon Surr	9.263	-0.026	2341627	1948565	NAS DIES	(C10-C24)	2883231	16.8

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	1055	0.0
Triacontane	1948565	11.2 M

M Indicates the peak was manually integrated

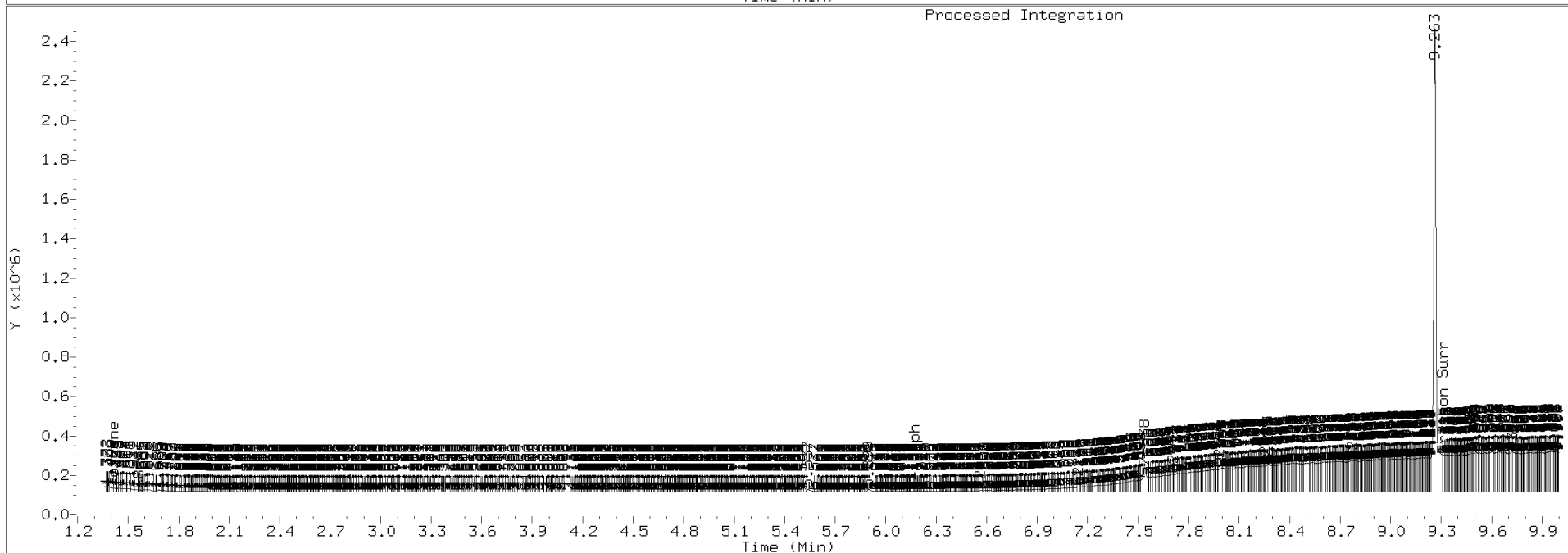
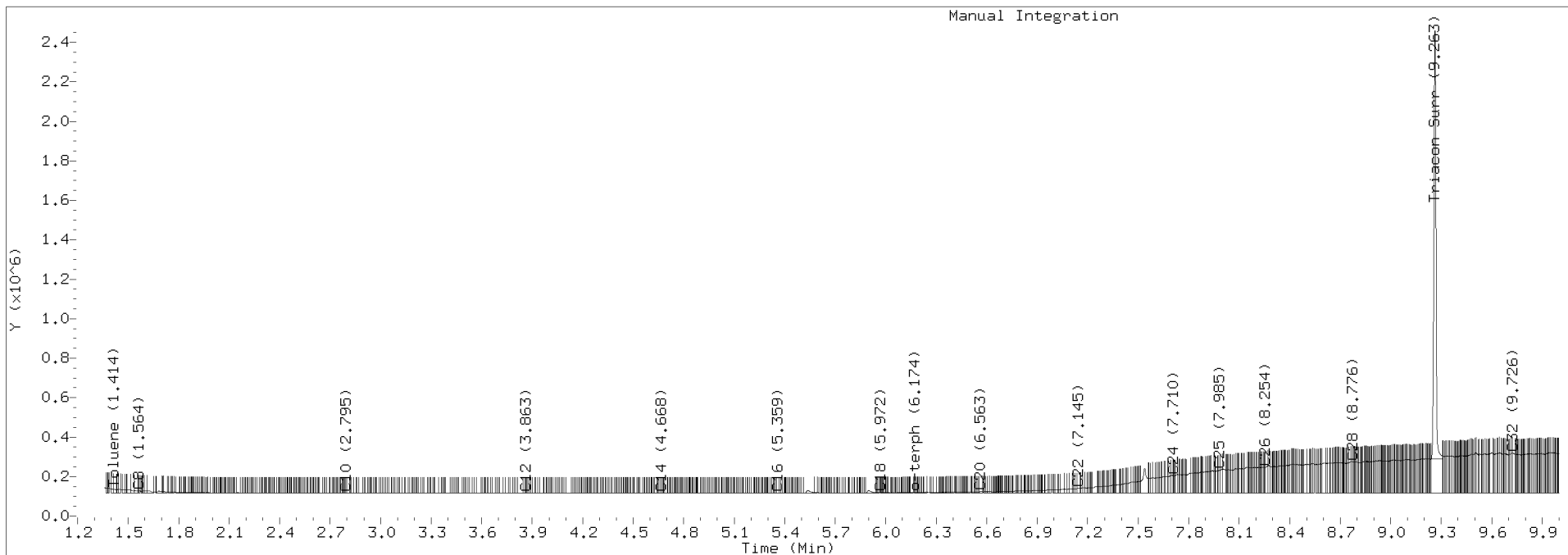
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0627.D Injection: 06-JAN-2022 19:23

Lab ID:SKA0028-CAL8



Data File: \\target\share\chem2\fid4a,1\20220106.b\42240628.D

Date: 06-JAN-2022 19:43

Client ID:

Sample Info: SKR0028-CAL9

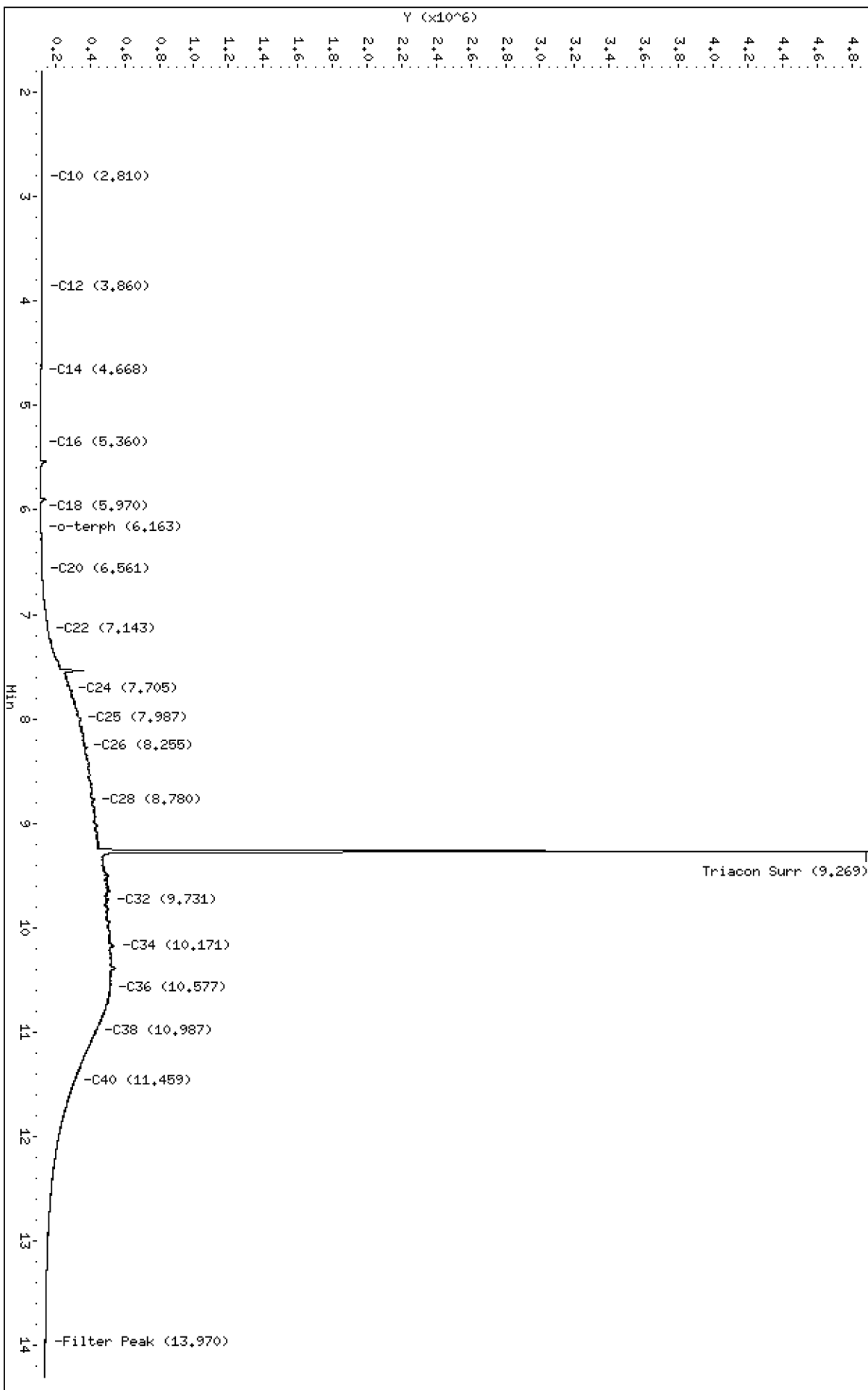
Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20220106.b\42240628.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0628.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL9
Client ID:
Injection: 06-JAN-2022 19:43
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

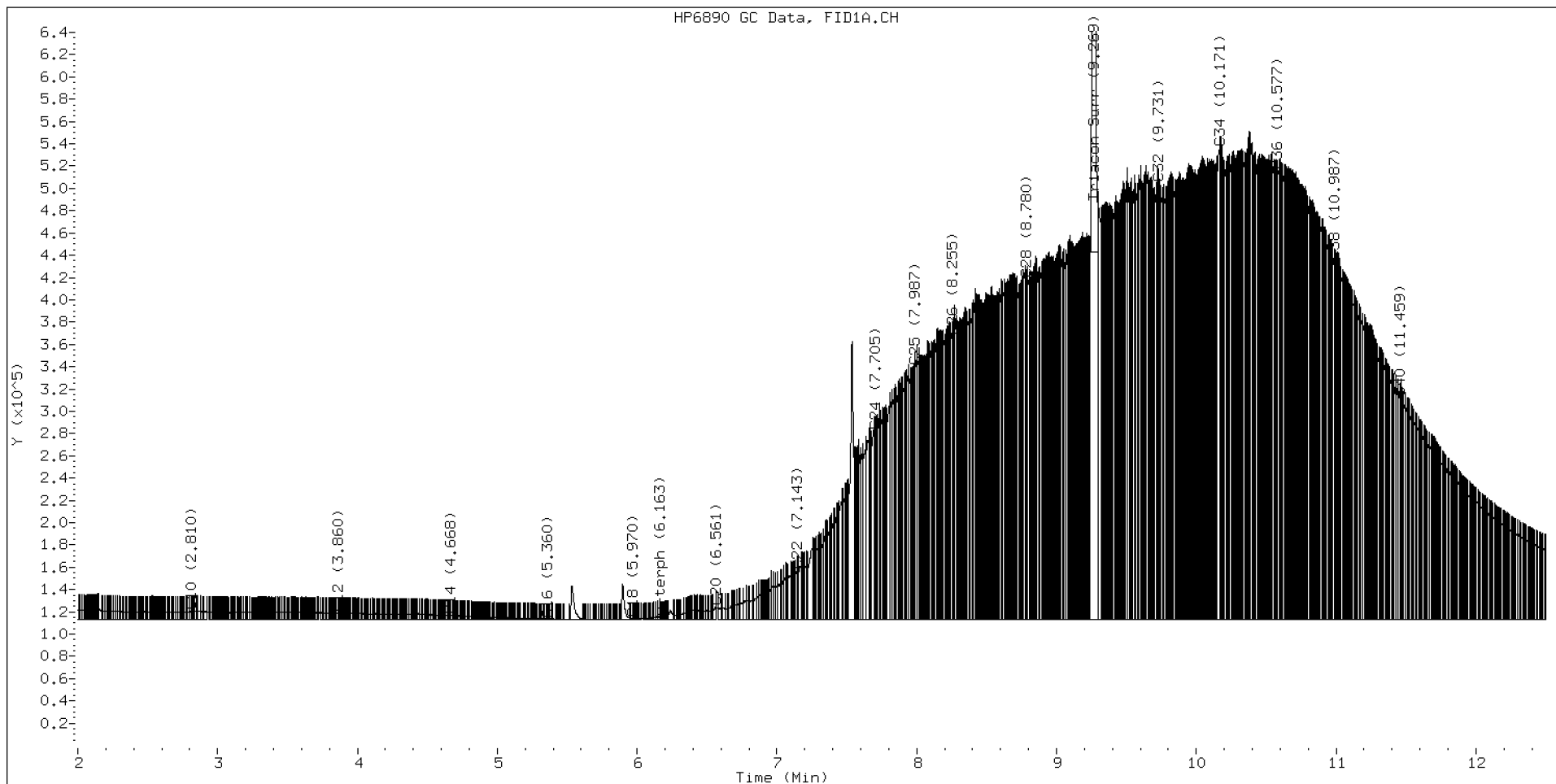
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.561	-0.005	18899	18490	WATPHD	(C12-C24)	5267715	36.1
C10	2.810	0.009	7809	6657	WATPHM	(C24-C38)	65361242	493.0
C12	3.860	0.002	6145	3630	AK102	(C10-C25)	7695397	44.7
C14	4.668	-0.000	3930	3869	AK103	(C25-C36)	54505288	551.1
C16	5.360	0.003	880	170	OR.DIES	(C10-C28)	21861512	125.8
C18	5.970	-0.002	1438	845				
C20	6.561	0.002	11665	15498				
C22	7.143	0.002	44022	42387				
C24	7.705	-0.003	169267	59011				
C25	7.987	0.001	227115	166595				
C26	8.255	-0.002	254374	63387				
C28	8.780	0.005	305712	121521				
C32	9.731	0.002	392327	135919				
C34	10.171	0.004	423466	189821				
Filter Peak	13.970	-0.003	28198	15418				
C36	10.577	-0.004	403448	160577				
C38	10.987	-0.002	321415	144011				
C40	11.459	-0.001	199069	49536				
o-terph	6.163	-0.004	2391	1211				
Triacon Surr	9.269	-0.021	4456889	3832767	NAS DIES	(C10-C24)	5689375	33.1

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	1211	0.0
Triacontane	3832767	22.0 M

M Indicates the peak was manually integrated

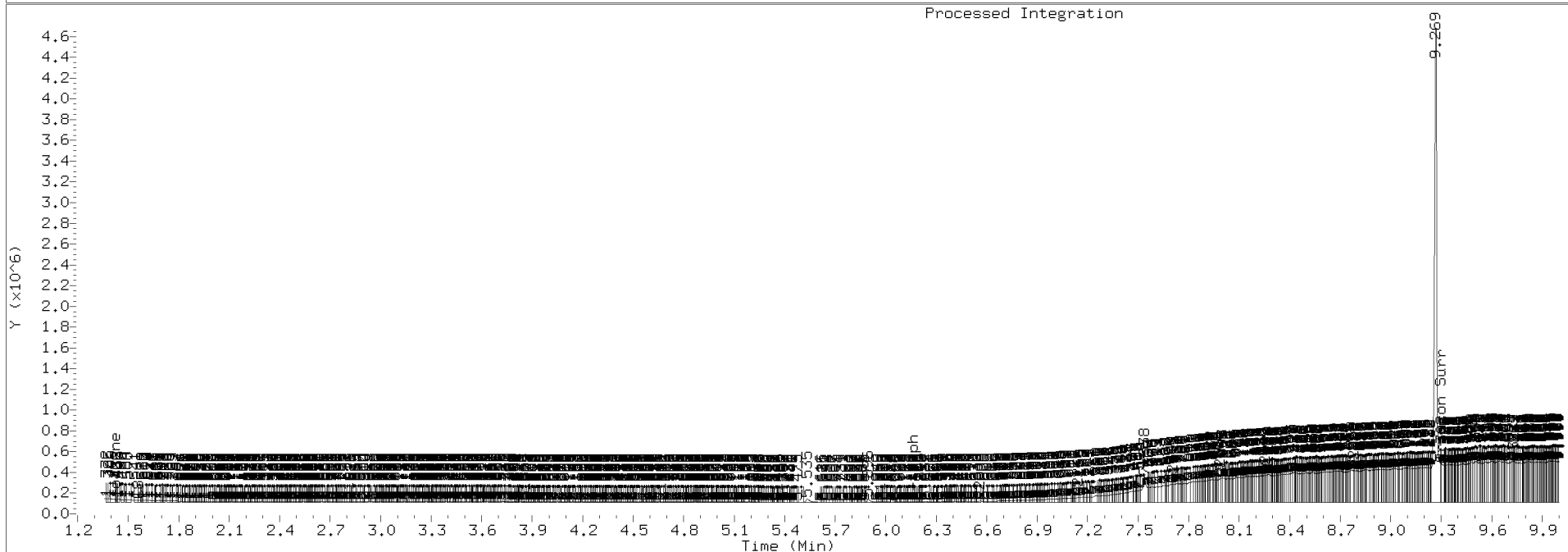
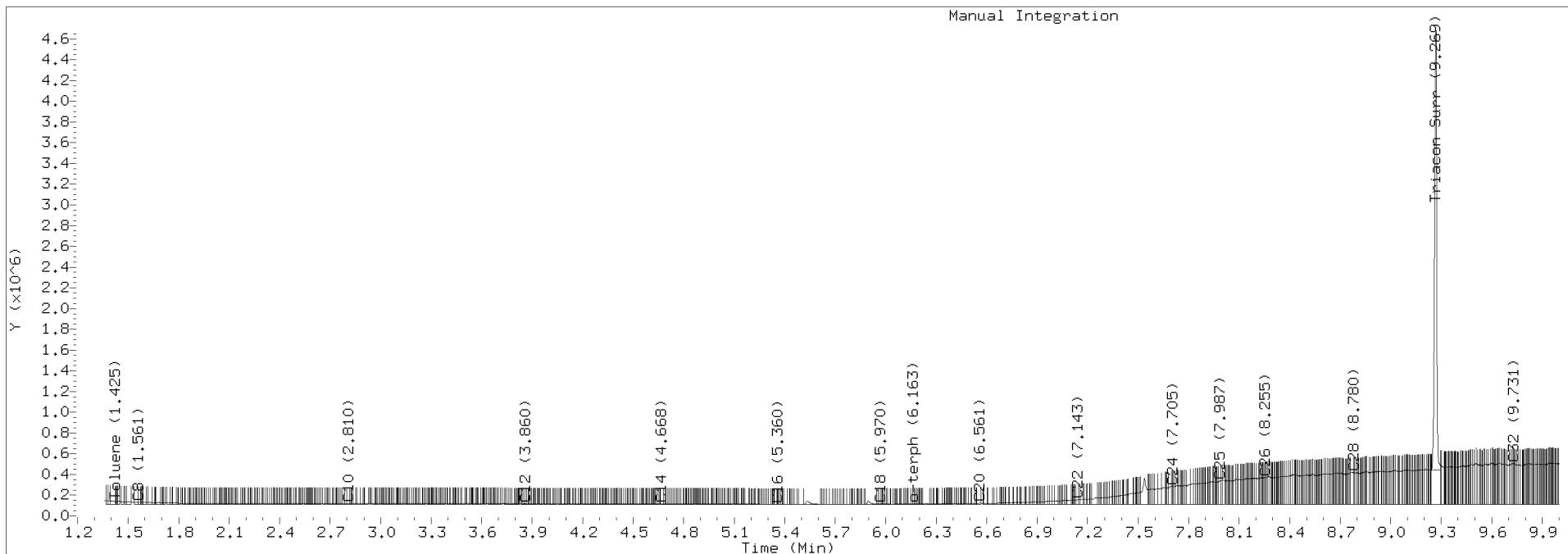
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0628.D Injection: 06-JAN-2022 19:43

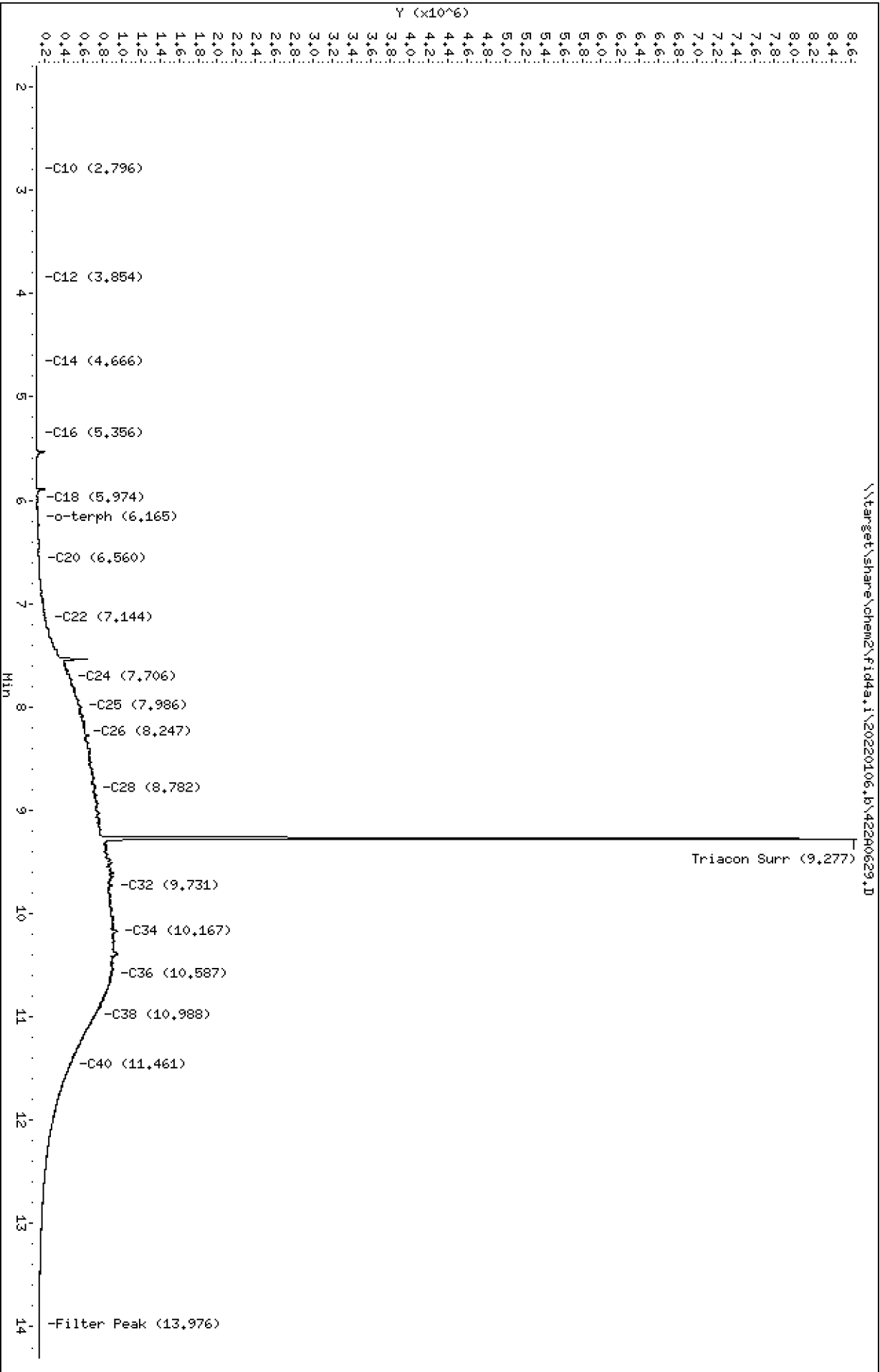
Lab ID:SKA0028-CAL9



Data File: \\target\share\chem2\fid4a,1\20220106.b\42240629.D
Date: 06-JAN-2022 20:02
Client ID:
Sample Info: SKR0028-CALA

Column phase: RTX-1

Instrument: fid4a,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0629.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALA
Client ID:
Injection: 06-JAN-2022 20:02
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

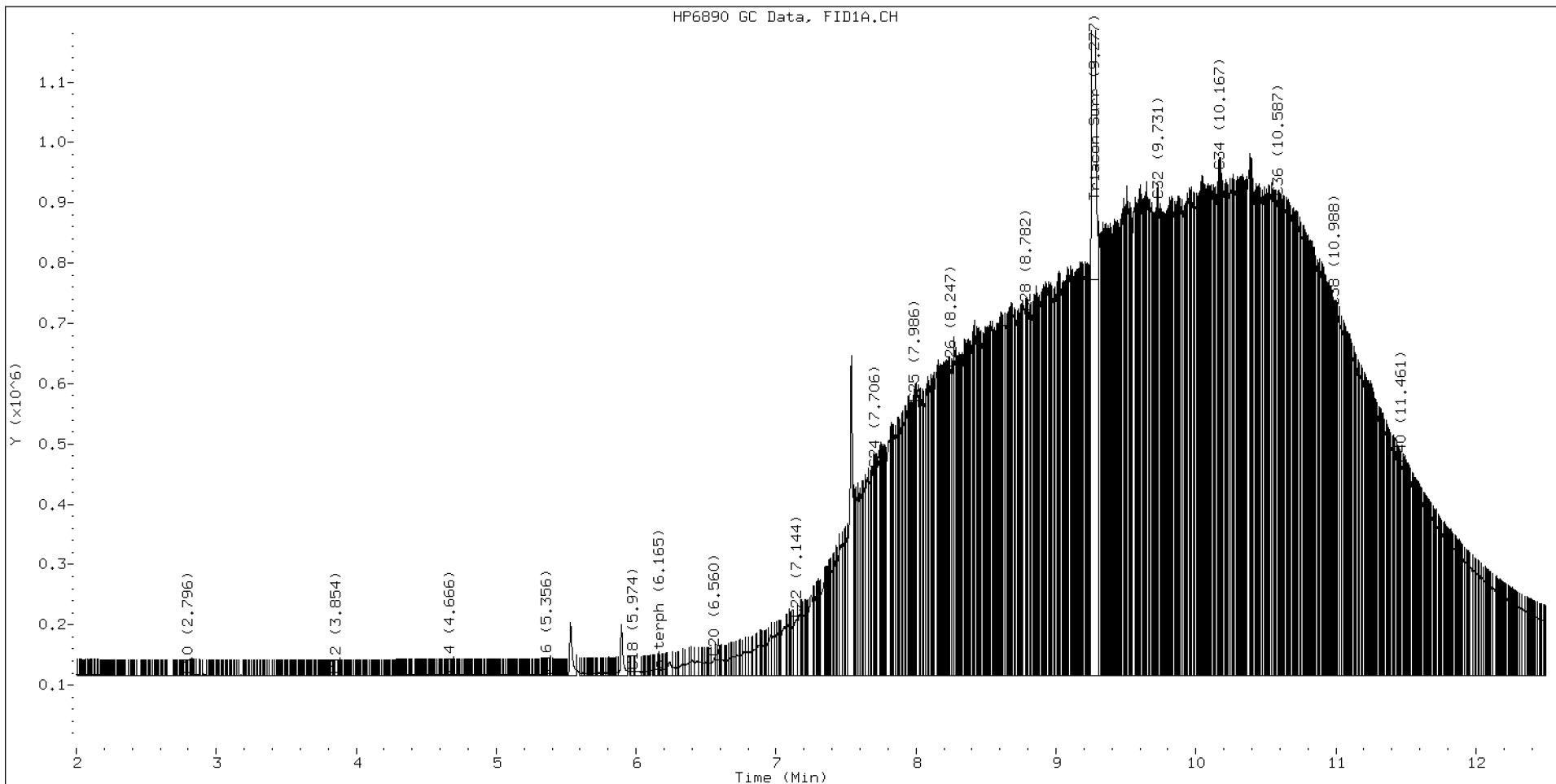
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.566	0.000	11101	8632	WATPHD	(C12-C24)	10727647	73.6
C10	2.796	-0.005	576	147	WATPHM	(C24-C38)	129320360	975.4
C12	3.854	-0.005	1107	956	AK102	(C10-C25)	14842212	86.2
C14	4.666	-0.002	2470	1298	AK103	(C25-C36)	108544248	1097.4
C16	5.356	-0.001	3529	1197	OR.DIES	(C10-C28)	43178118	248.5
C18	5.974	0.002	7530	7872				
C20	6.560	0.000	29424	44604				
C22	7.144	0.003	93274	142646				
C24	7.706	-0.003	342850	102299				
C25	7.986	0.000	451931	245156				
C26	8.247	-0.010	508762	377501				
C28	8.782	0.007	601806	120120				
C32	9.731	0.001	789145	579688				
C34	10.167	0.000	836380	250168				
Filter Peak	13.976	0.003	27826	13801				
C36	10.587	0.006	793648	511126				
C38	10.988	-0.001	611295	302860				
C40	11.461	0.002	351554	139850				
o-terph	6.165	-0.002	9745	4761				
Triacon Surr	9.277	-0.012	7887730	7740915	NAS DIES	(C10-C24)	10771308	62.7

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	4761	0.0
Triacontane	7740915	44.4 M

M Indicates the peak was manually integrated

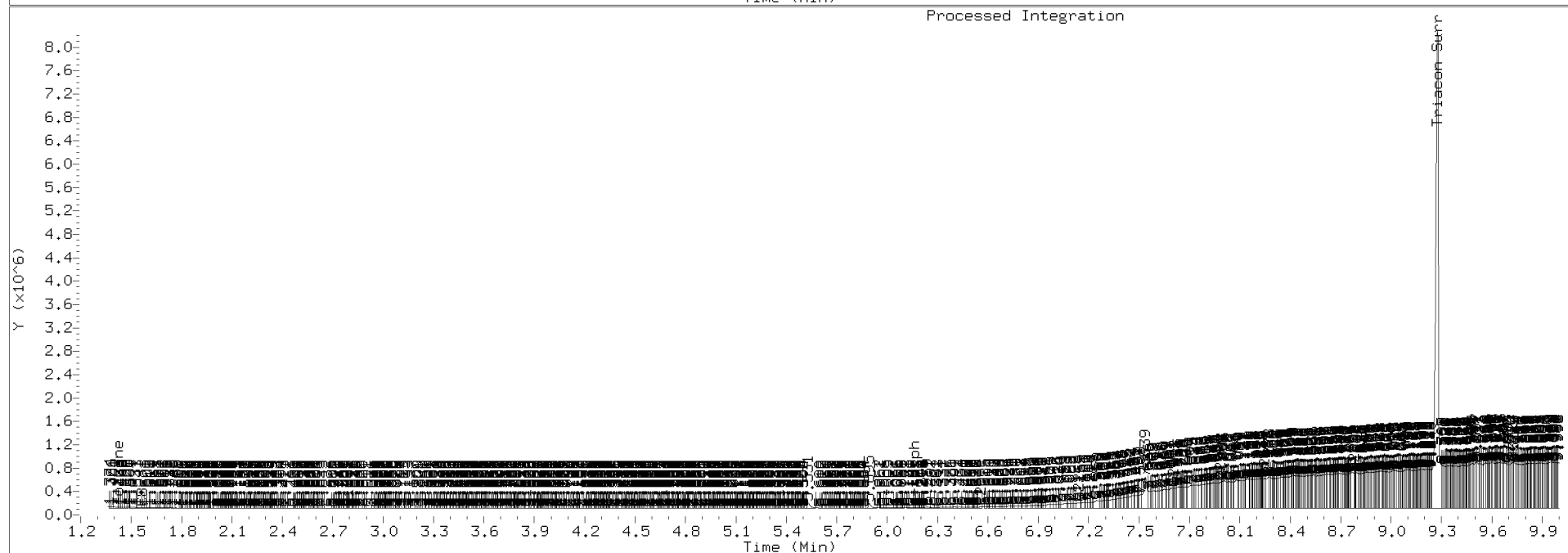
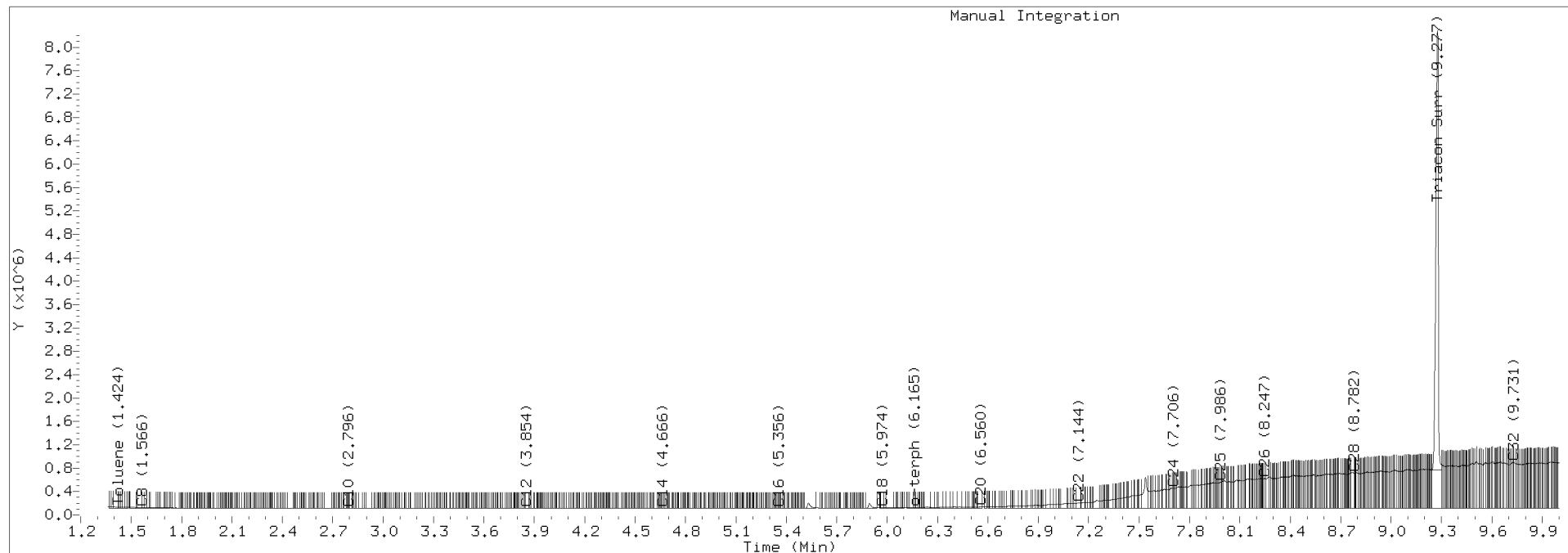
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0629.D Injection: 06-JAN-2022 20:02

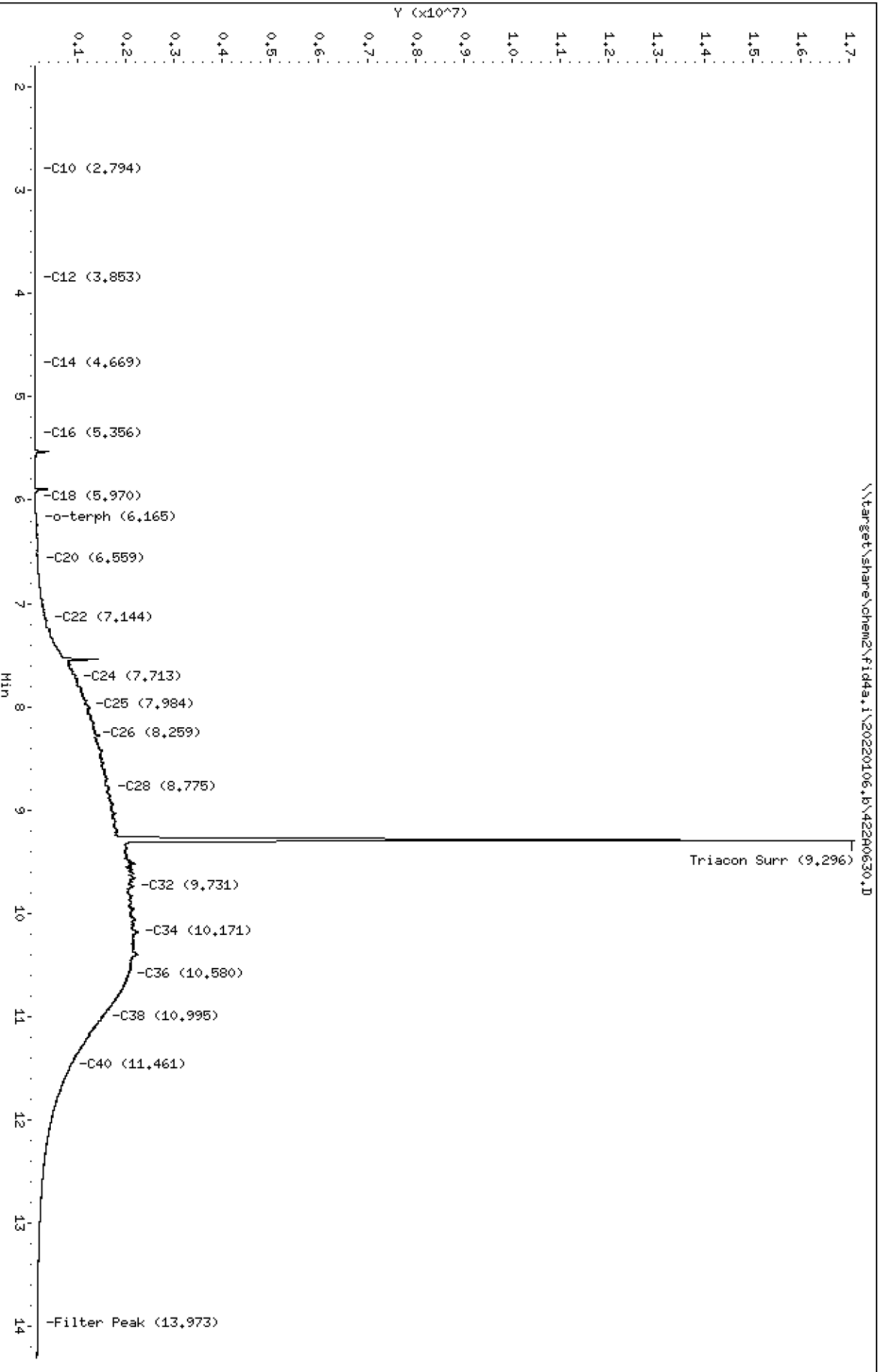
Lab ID:SKA0028-CALA



Data File: \\target\share\chem2\fid4a,1\20220106.b\42240630.D
Date: 06-JAN-2022 20:22
Client ID:
Sample Info: SKR0028-CALB

Column phase: RTX-1

Instrument: fid4a,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0630.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALB
Client ID:
Injection: 06-JAN-2022 20:22
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

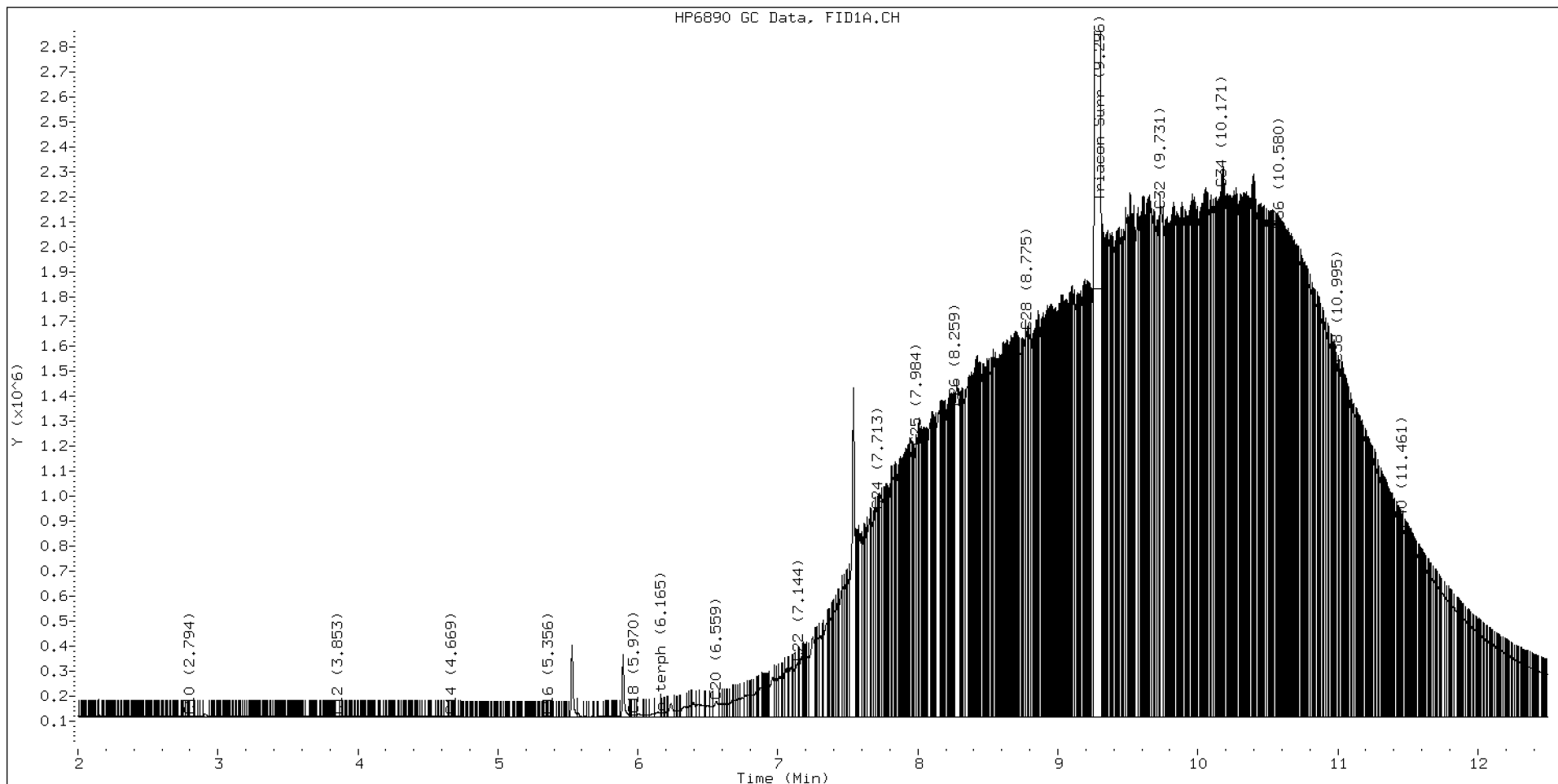
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.577	0.011	17258	4301	WATPHD	(C12-C24)	25178731	172.8
C10	2.794	-0.008	5092	3608	WATPHM	(C24-C38)	324449124	2447.2
C12	3.853	-0.006	5678	7022	AK102	(C10-C25)	35400273	205.5
C14	4.669	0.001	3839	758	AK103	(C25-C36)	273940795	2769.6
C16	5.356	-0.000	3278	2699	OR.DIES	(C10-C28)	105094526	604.8
C18	5.970	-0.002	10714	10162				
C20	6.559	-0.000	64664	142222				
C22	7.144	0.002	219141	252458				
C24	7.713	0.004	827562	247062				
C25	7.984	-0.003	1080011	687511				
C26	8.259	0.002	1238176	370748				
C28	8.775	-0.000	1545429	993360				
C32	9.731	0.001	2028162	997421				
C34	10.171	0.004	2118052	1355483				
Filter Peak	13.973	-0.000	48608	21788				
C36	10.580	-0.001	1948503	972417				
C38	10.995	0.006	1414419	841893				
C40	11.461	0.001	751652	187506				
o-terph	6.165	-0.002	15801	3901				
Triacon Surr	9.296	0.006	15269043	19868141	NAS DIES	(C10-C24)	25505234	148.5

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	3901	0.0
Triacontane	19868141	114.0 M

M Indicates the peak was manually integrated

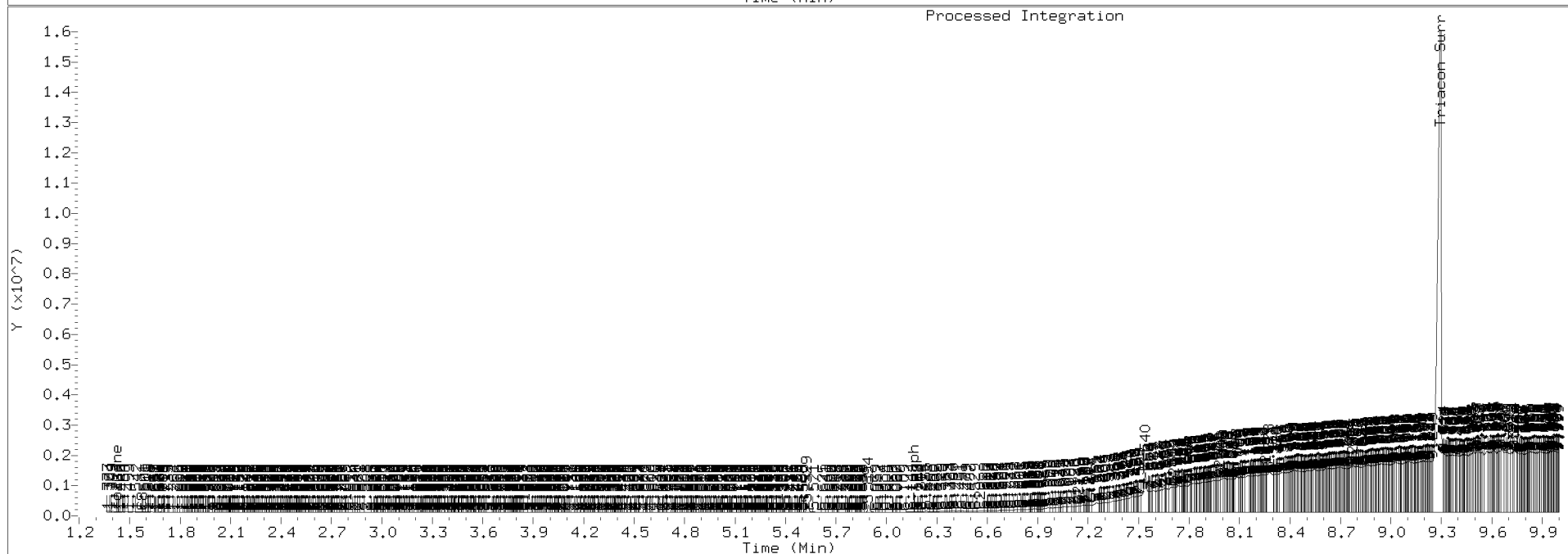
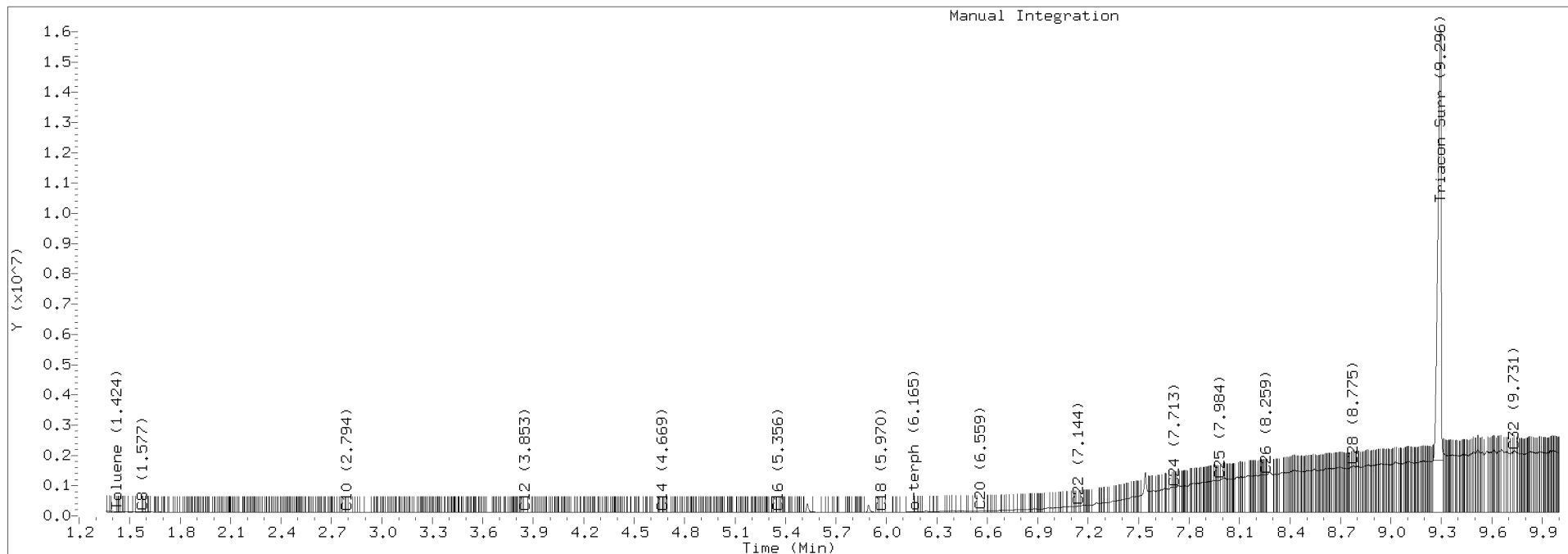
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0630.D Injection: 06-JAN-2022 20:22

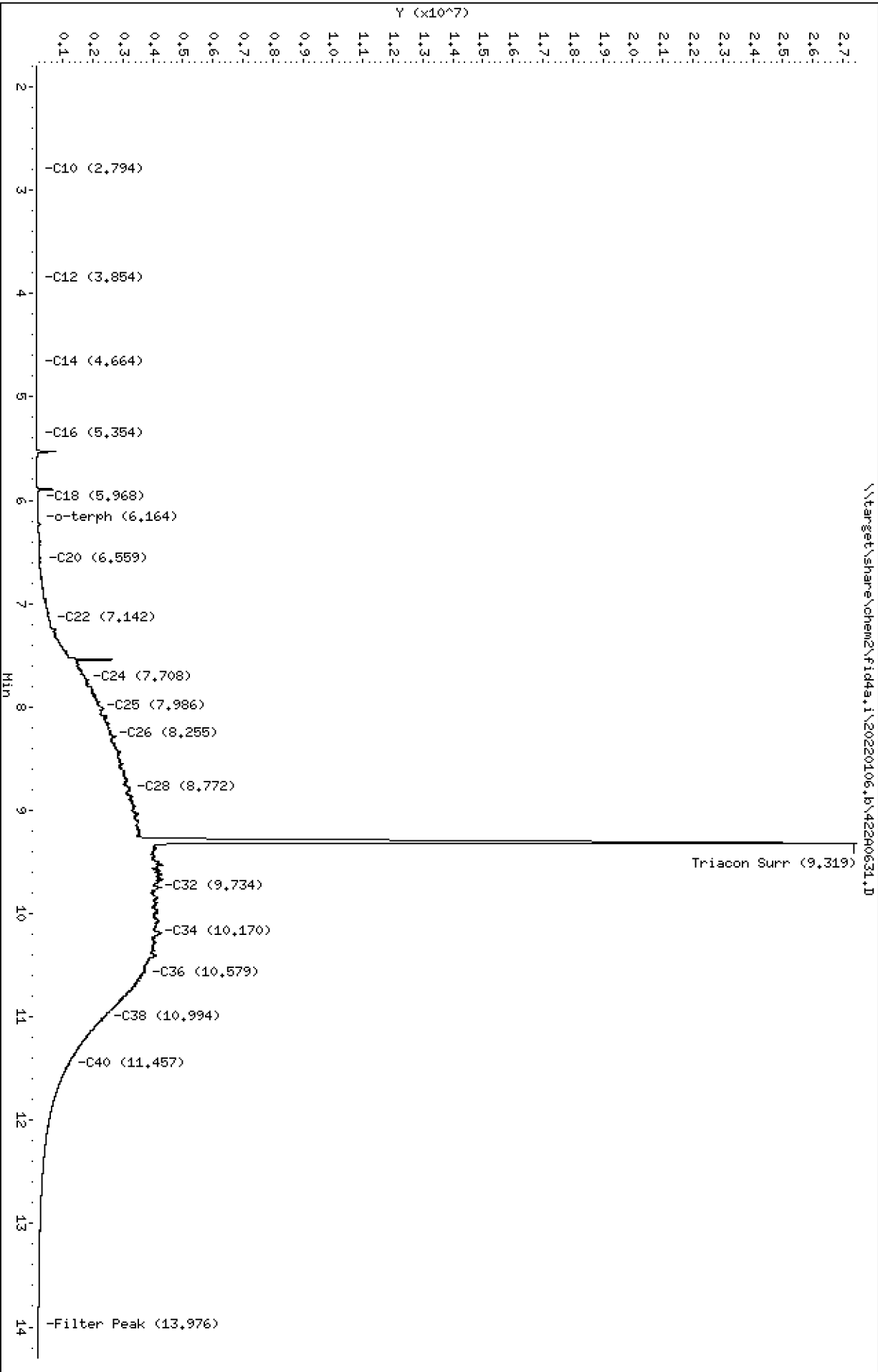
Lab ID:SKA0028-CALB



Data File: \\target\share\chem2\fid4a,1\20220106.b\42240631.D
Date: 06-JAN-2022 20:42
Client ID:
Sample Info: SKR0028-CALC

Column phase: RTX-1

Instrument: fid4a,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0631.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALC
Client ID:
Injection: 06-JAN-2022 20:42
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

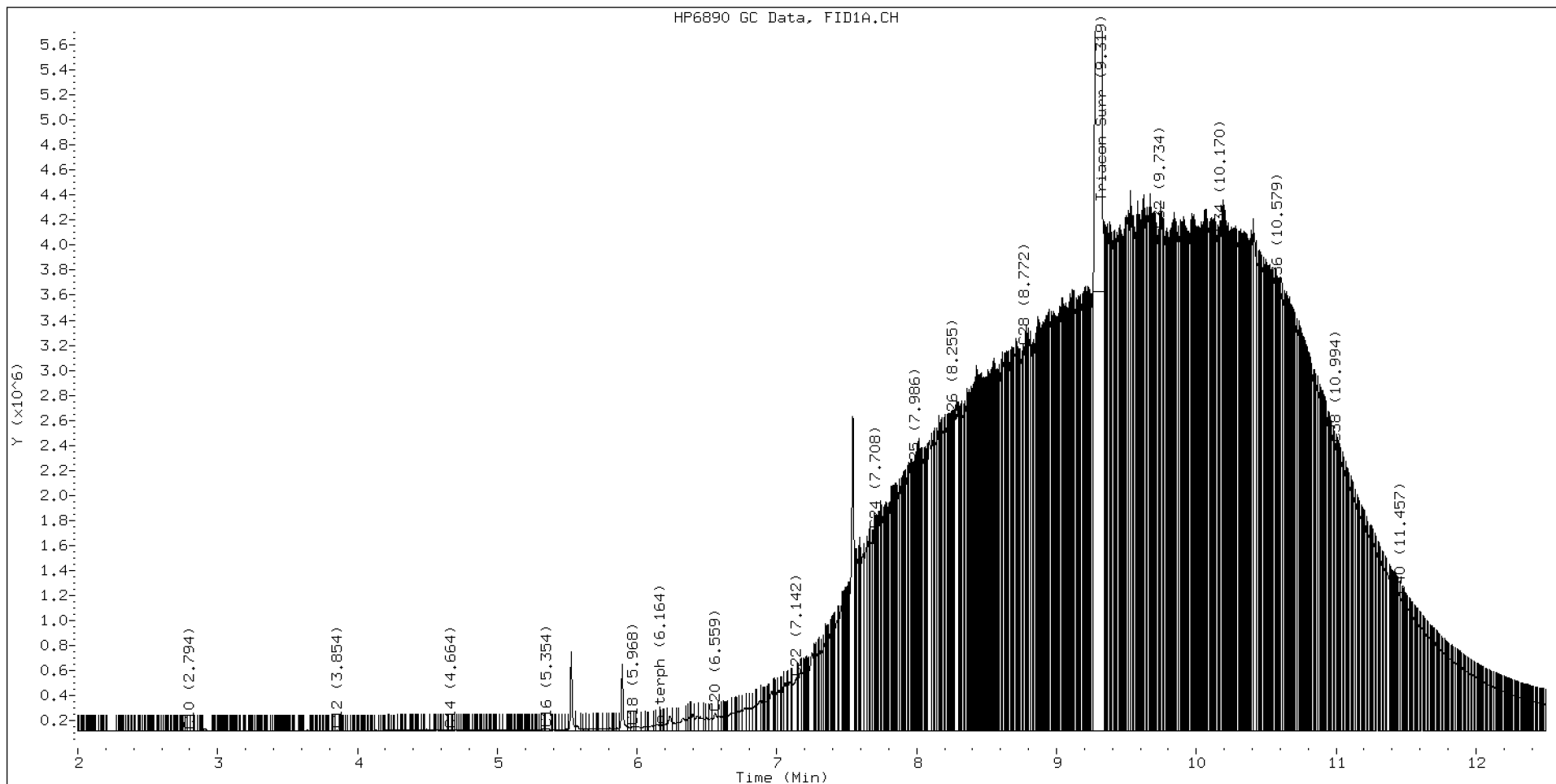
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.567	0.001	12437	6794	WATPHD	(C12-C24)	50023505	343.2
C10	2.794	-0.007	1603	1382	WATPHM	(C24-C38)	629138264	4745.4
C12	3.854	-0.004	5247	5695	AK102	(C10-C25)	69619933	404.2
C14	4.664	-0.004	10564	11502	AK103	(C25-C36)	540174647	5461.3
C16	5.354	-0.002	16087	34954	OR.DIES	(C10-C28)	208310669	1198.8
C18	5.968	-0.004	32949	39919				
C20	6.559	-0.000	138972	310447				
C22	7.142	0.001	427301	781717				
C24	7.708	-0.001	1605305	638932				
C25	7.986	-0.000	2072035	718075				
C26	8.255	-0.002	2467694	982346				
C28	8.772	-0.004	3074685	1975887				
C32	9.734	0.005	3999709	2176432				
C34	10.170	0.003	3982476	2371685				
Filter Peak	13.976	0.003	62326	40134				
C36	10.579	-0.003	3557173	2116083				
C38	10.994	0.006	2297213	1137312				
C40	11.457	-0.003	1081035	1006449				
o-terph	6.164	-0.003	41429	10336				
Triacon Surr	9.319	0.029	23838567	40429932	NAS DIES	(C10-C24)	50155994	292.0

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	10336	0.1
Triacotane	40429932	232.1 M

M Indicates the peak was manually integrated

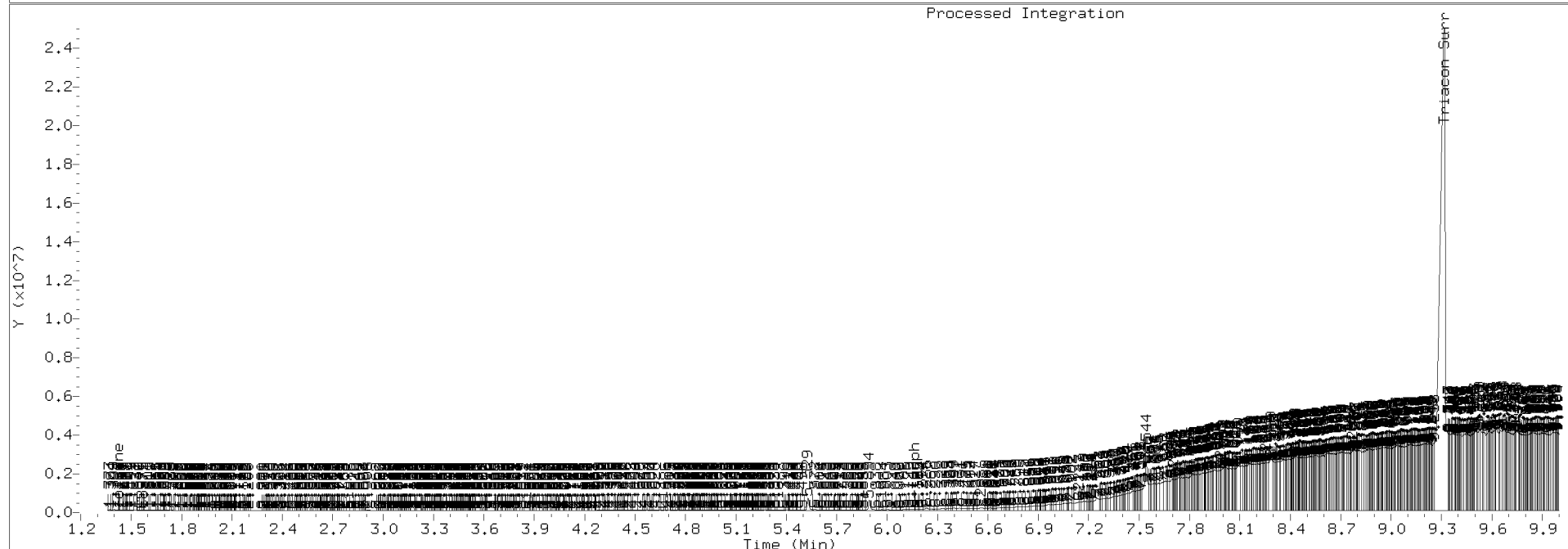
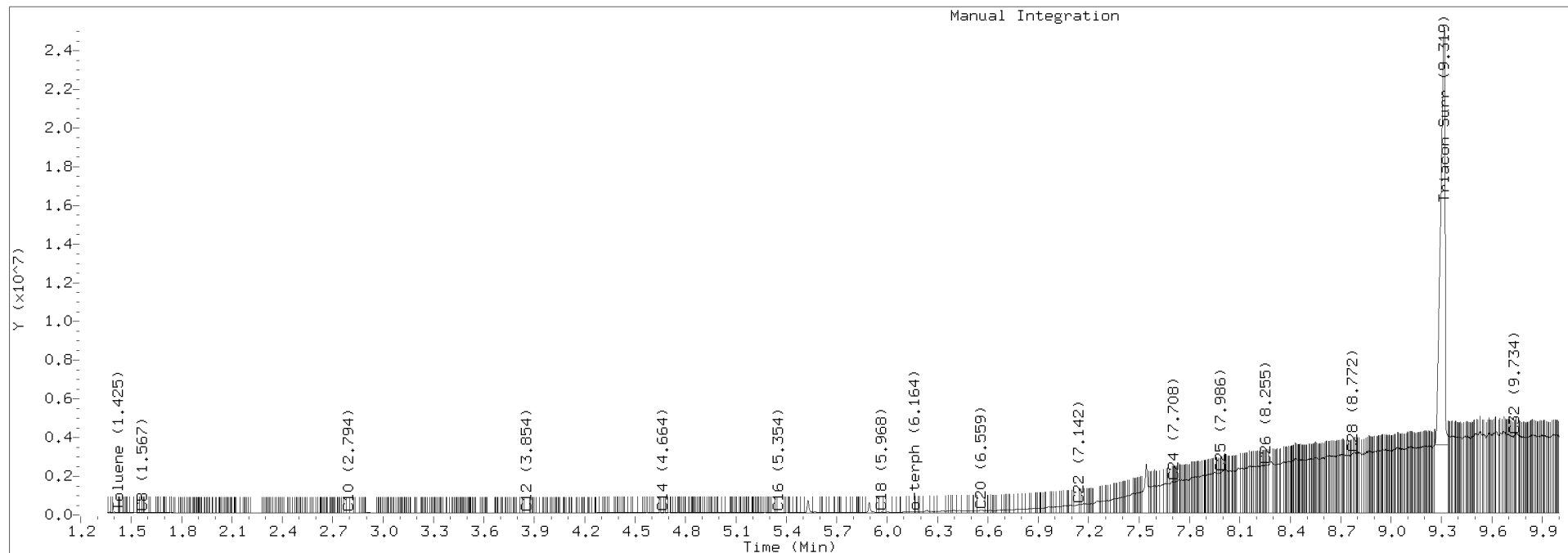
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0631.D Injection: 06-JAN-2022 20:42

Lab ID:SKA0028-CALC



Data File: \\target\share\chem2\fid4a,1\20220106_b\42240632.D

Date: 06-JAN-2022 21:02

Client ID:

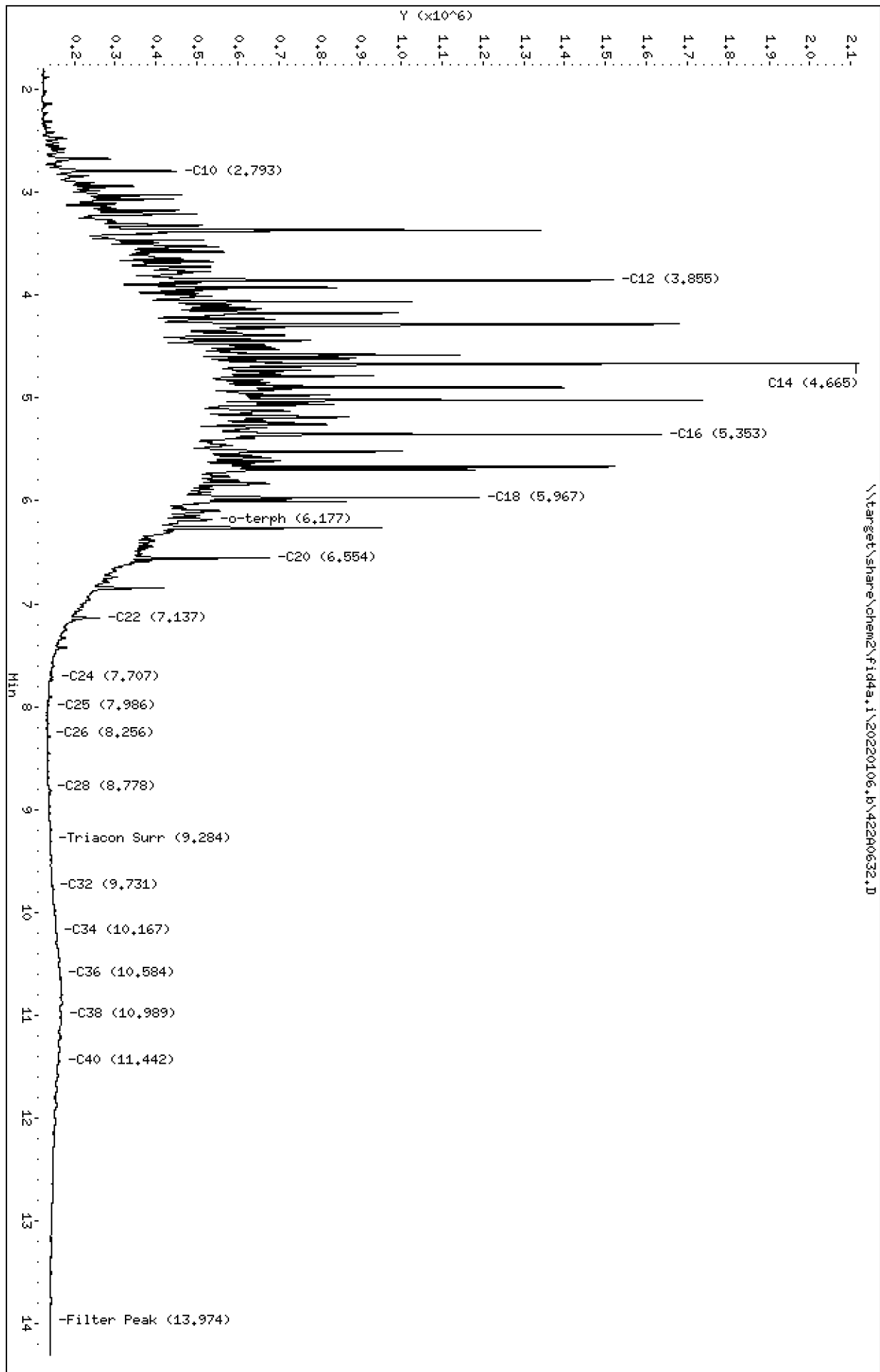
Sample Info: SKR0028-SCV1

Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0632.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-SCV1
Client ID:
Injection: 06-JAN-2022 21:02
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

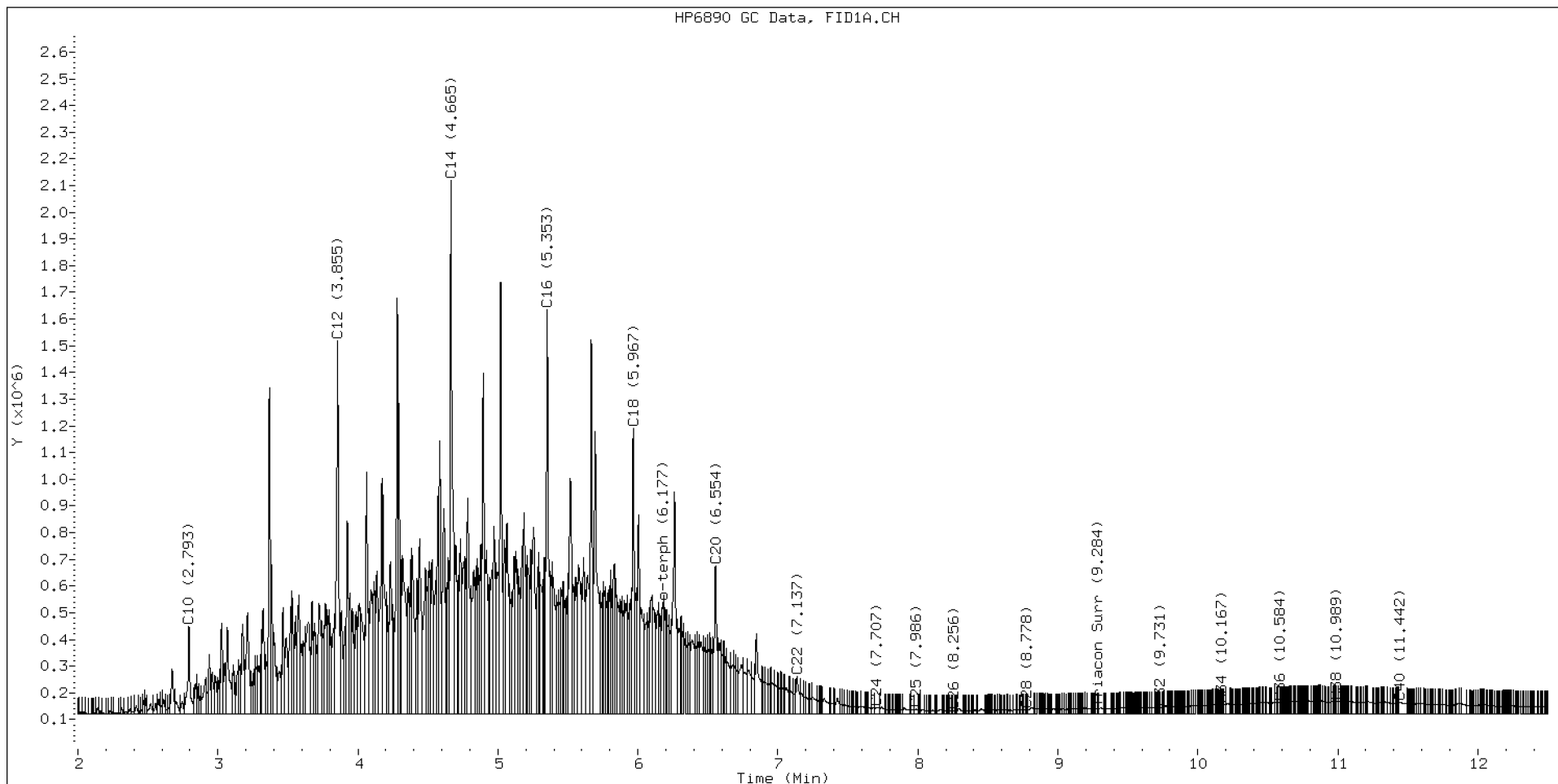
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.554	-0.012	13447	19907	WATPHD	(C12-C24)	81818326	561.4
C10	2.793	-0.008	328700	402623	WATPHM	(C24-C38)	4903930	37.0
C12	3.855	-0.003	1398359	1541786	AK102	(C10-C25)	98237239	570.4
C14	4.665	-0.003	1998212	2275704	AK103	(C25-C36)	3617447	36.6
C16	5.353	-0.003	1514409	1842028	OR.DIES	(C10-C28)	98957633	569.5
C18	5.967	-0.005	1069816	1029152				
C20	6.554	-0.005	555197	666071				
C22	7.137	-0.004	141564	207118				
C24	7.707	-0.002	25196	52303				
C25	7.986	-0.000	18136	25237				
C26	8.256	-0.001	12963	11391				
C28	8.778	0.002	15805	6221				
C32	9.731	0.002	24227	8392				
C34	10.167	-0.000	33488	11671				
Filter Peak	13.974	0.001	19683	11641				
C36	10.584	0.003	44128	15372				
C38	10.989	0.001	46492	34691				
C40	11.442	-0.018	43094	144180				
o-terph	6.177	0.010	416300	426651				
Triacon Surr	9.284	-0.006	19261	10418	NAS DIES	(C10-C24)	98063156	571.0

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	426651	2.2
Triacontane	10418	0.1

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



Data File: \\target\share\chem2\fid4a,1\20220106_b\42280633.D

Date: 06-JAN-2022 21:21

Client ID:

Sample Info: SKR0028-SCV2

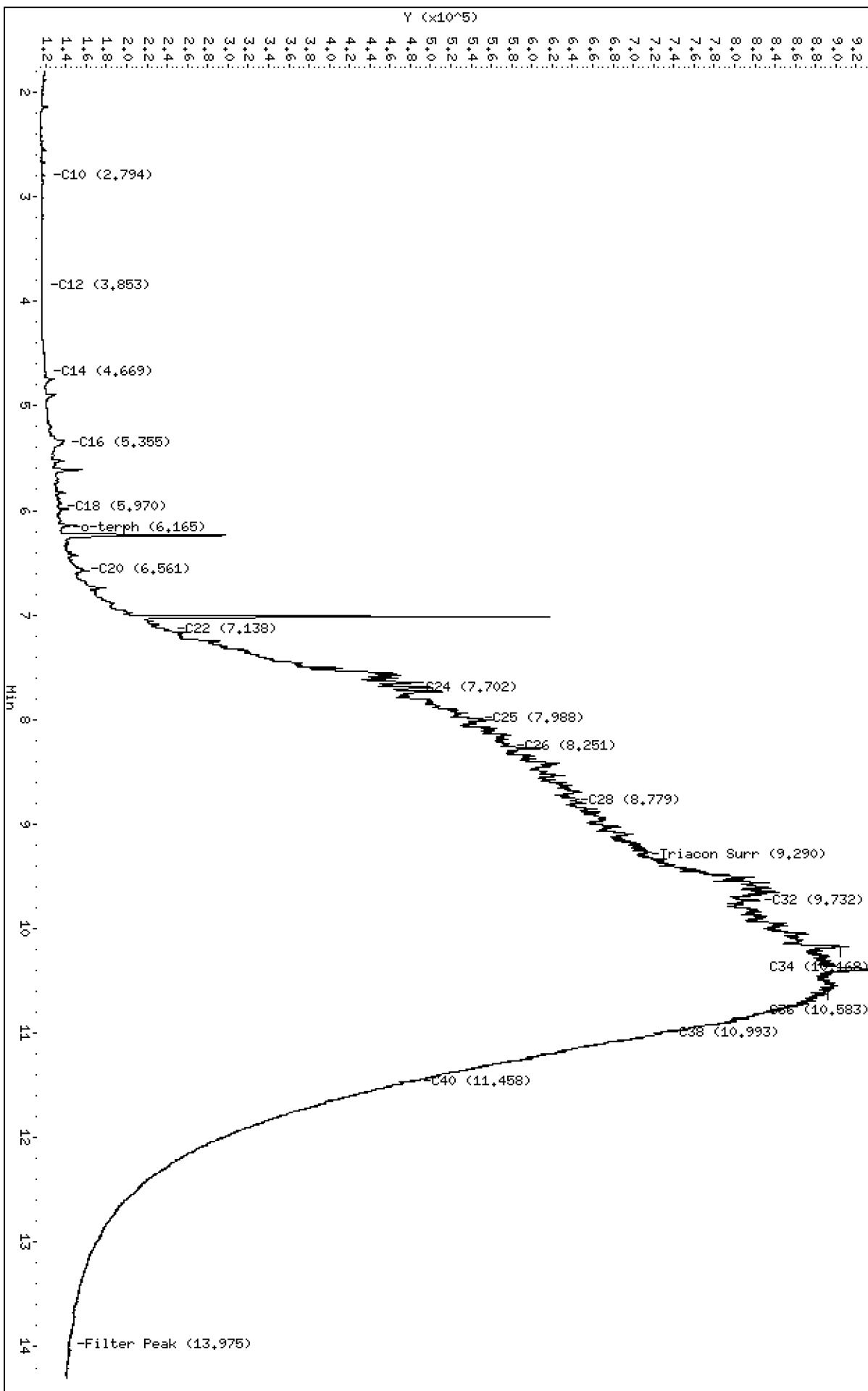
Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20220106_b\42280633.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0633.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-SCV2
Client ID:
Injection: 06-JAN-2022 21:21
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

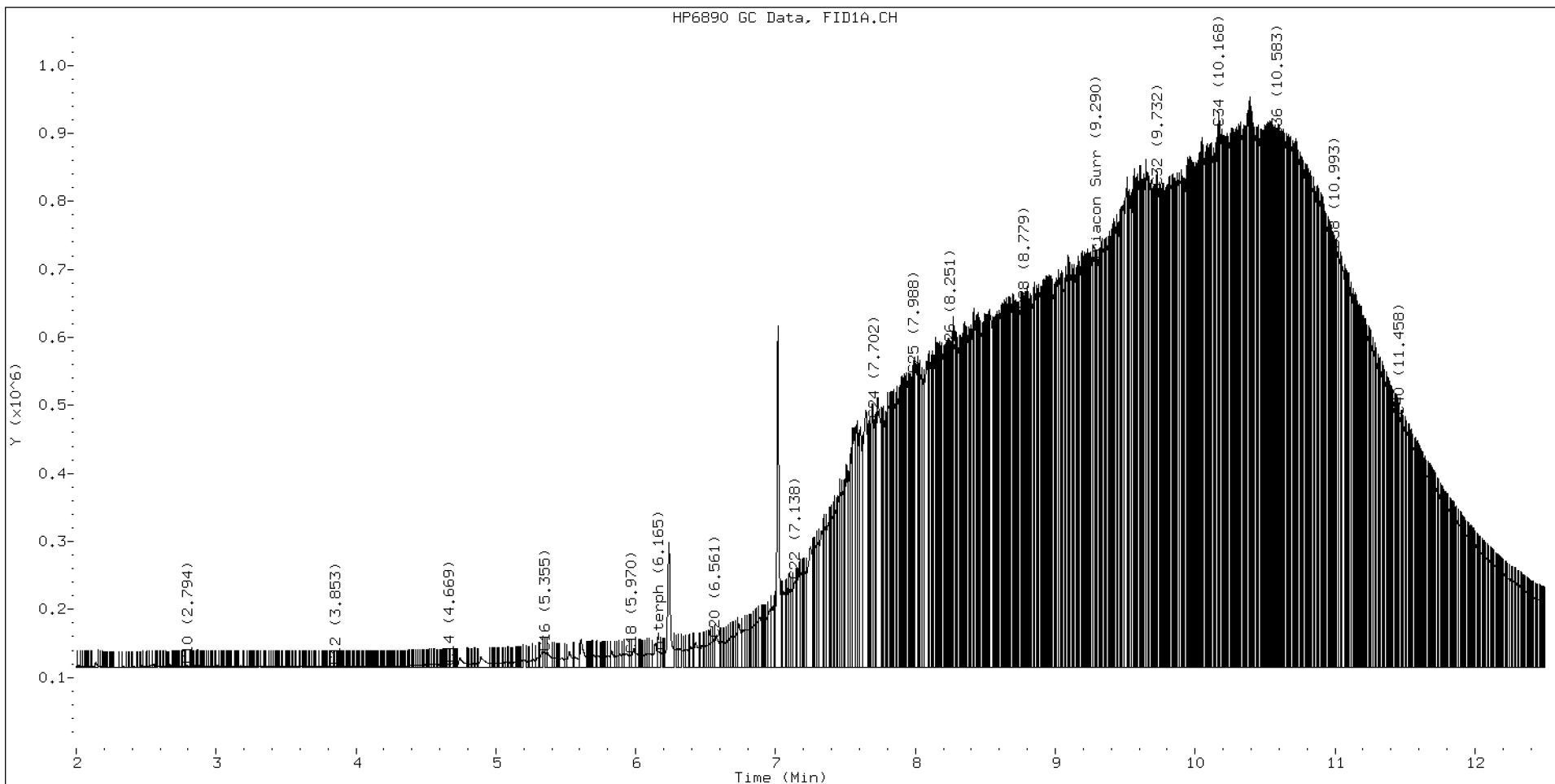
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.571	0.005	9397	3234	WATPHD	(C12-C24)	14056895	96.4
C10	2.794	-0.008	3468	3249	WATPHM	(C24-C38)	119954259	904.8
C12	3.853	-0.006	1998	1502	AK102	(C10-C25)	18142709	105.3
C14	4.669	0.001	4718	2557	AK103	(C25-C36)	98929750	1000.2
C16	5.355	-0.002	21381	13437	OR.DIES	(C10-C28)	43590146	250.9
C18	5.970	-0.003	18024	5393				
C20	6.561	0.002	41385	47221				
C22	7.138	-0.003	126282	164868				
C24	7.702	-0.007	364294	249450				
C25	7.988	0.002	429789	170231				
C26	8.251	-0.006	461561	275289				
C28	8.779	0.003	524231	157049				
C32	9.732	0.002	706043	454955				
C34	10.168	0.001	792309	274623				
Filter Peak	13.975	0.002	27946	6956				
C36	10.583	0.002	779610	310190				
C38	10.993	0.004	614371	153291				
C40	11.458	-0.002	369218	346346				
o-terph	6.165	-0.002	22790	28222				
Triacon Surr	9.290	-0.000	594134	295766	NAS DIES	(C10-C24)	14144817	82.4

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	28222	0.1
Triacontane	295766	1.7

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

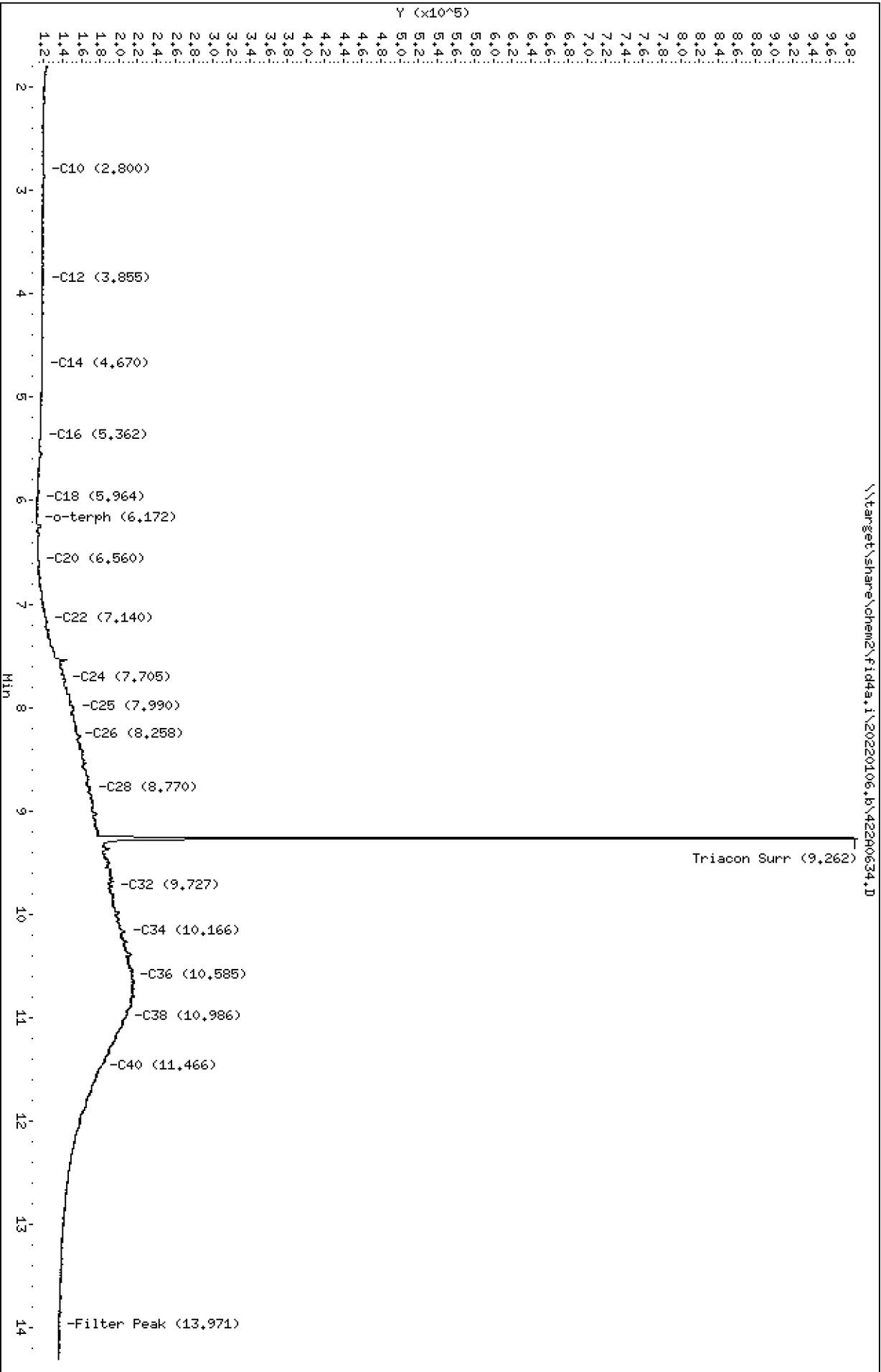


Data File: \\target\share\chem2\fid4a,1\20220106,b\42280634.D
Date : 06-JAN-2022 21:41
Client ID:
Sample Info: SKR0028-CALD

Instrument: fid4a,1

Column phase: RTX-1

Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0634.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALD
Client ID:
Injection: 06-JAN-2022 21:41
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

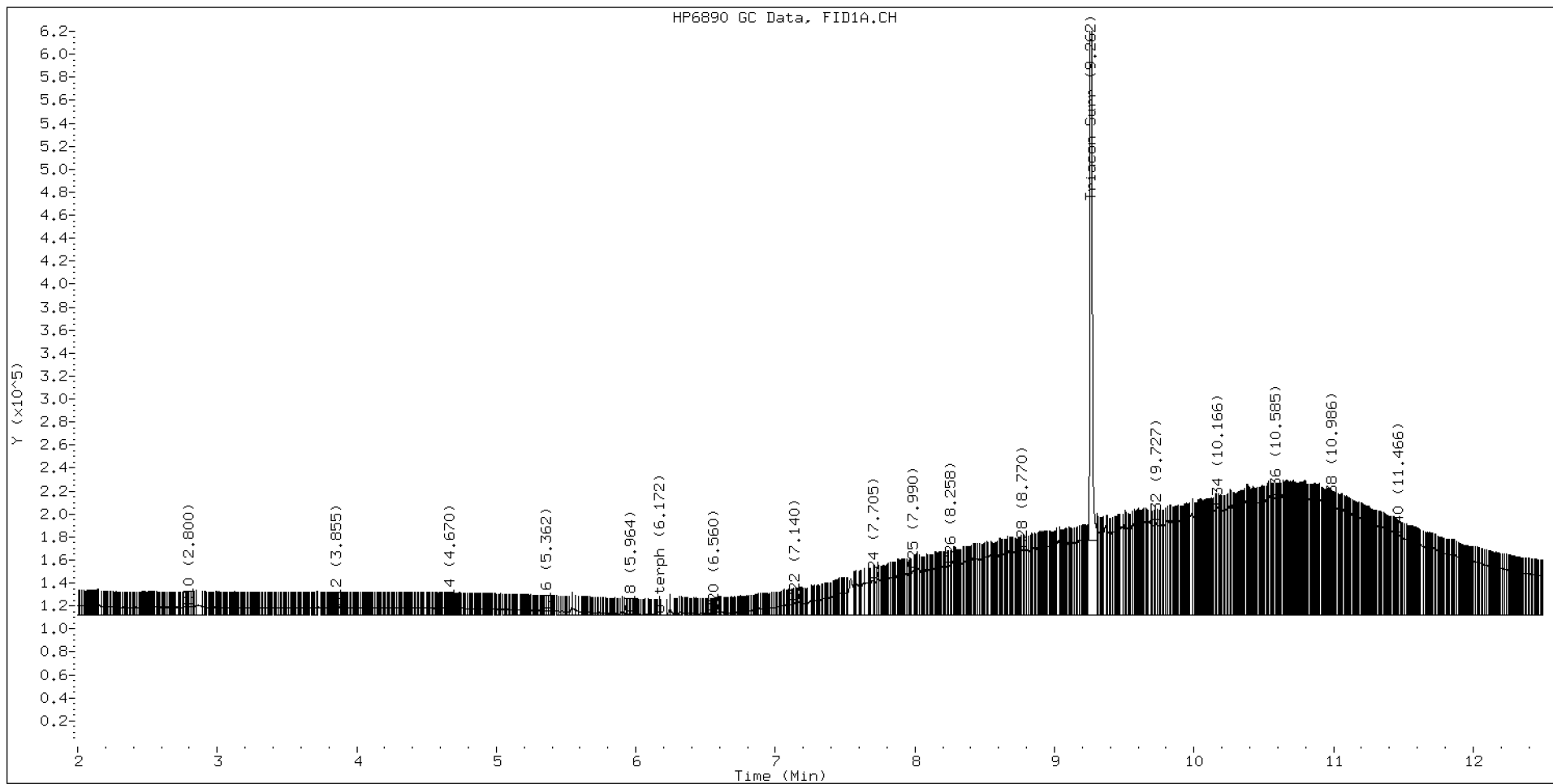
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.567	0.001	17146	19314	WATPHD	(C12-C24)	1474779	10.1
C10	2.800	-0.002	6919	1375	WATPHM	(C24-C38)	13771790	103.9
C12	3.855	-0.003	6785	3685	AK102	(C10-C25)	2234932	13.0
C14	4.670	0.002	6048	2401	AK103	(C25-C36)	10945533	110.7
C16	5.362	0.006	3993	2753	OR.DIES	(C10-C28)	4695847	27.0
C18	5.964	-0.008	893	555				
C20	6.560	-0.000	1925	933				
C22	7.140	-0.001	10540	7151				
C24	7.705	-0.004	29831	19074				
C25	7.990	0.003	39026	43181				
C26	8.258	0.001	43157	10746				
C28	8.770	-0.005	57286	39691				
C32	9.727	-0.003	80921	56092				
C34	10.166	-0.001	93902	74517				
Filter Peak	13.971	-0.002	23966	5967				
C36	10.585	0.004	101870	25421				
C38	10.986	-0.003	96118	43017				
C40	11.466	0.007	69773	58785				
o-terph	6.172	0.005	280	151				
Triacon Surr	9.262	-0.028	812213	727031	NAS DIES	(C10-C24)	1904331	11.1

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	151	0.0
Triacontane	727031	4.2 M

M Indicates the peak was manually integrated

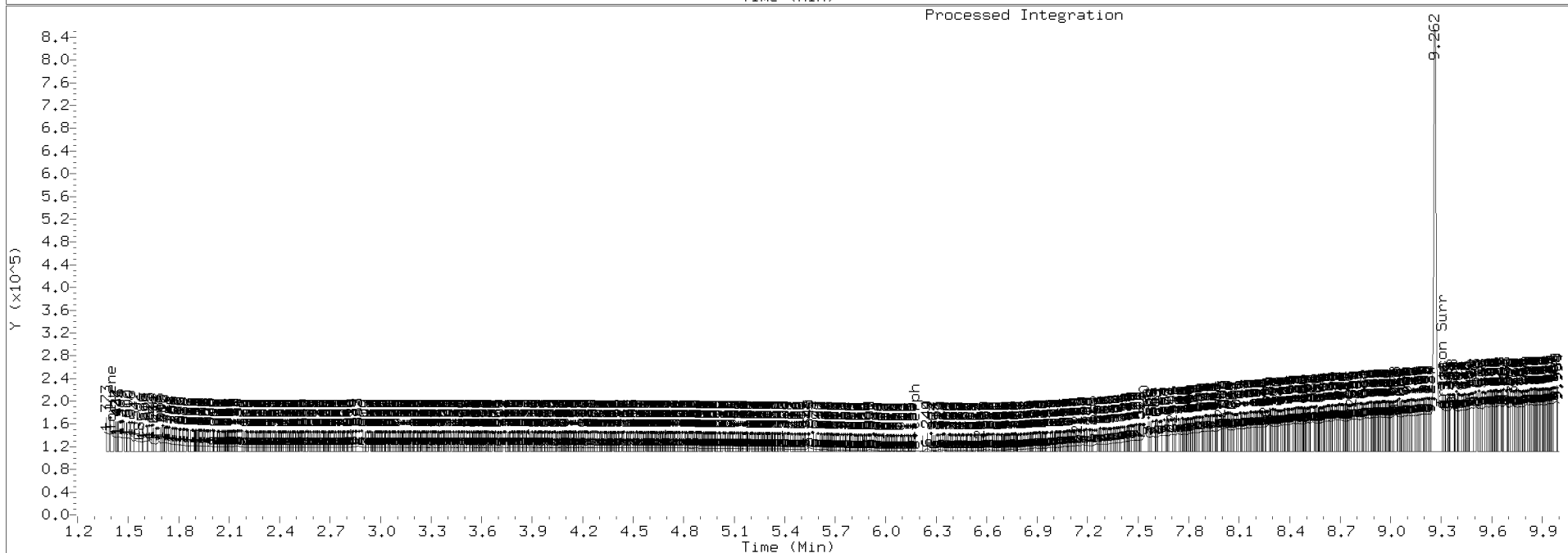
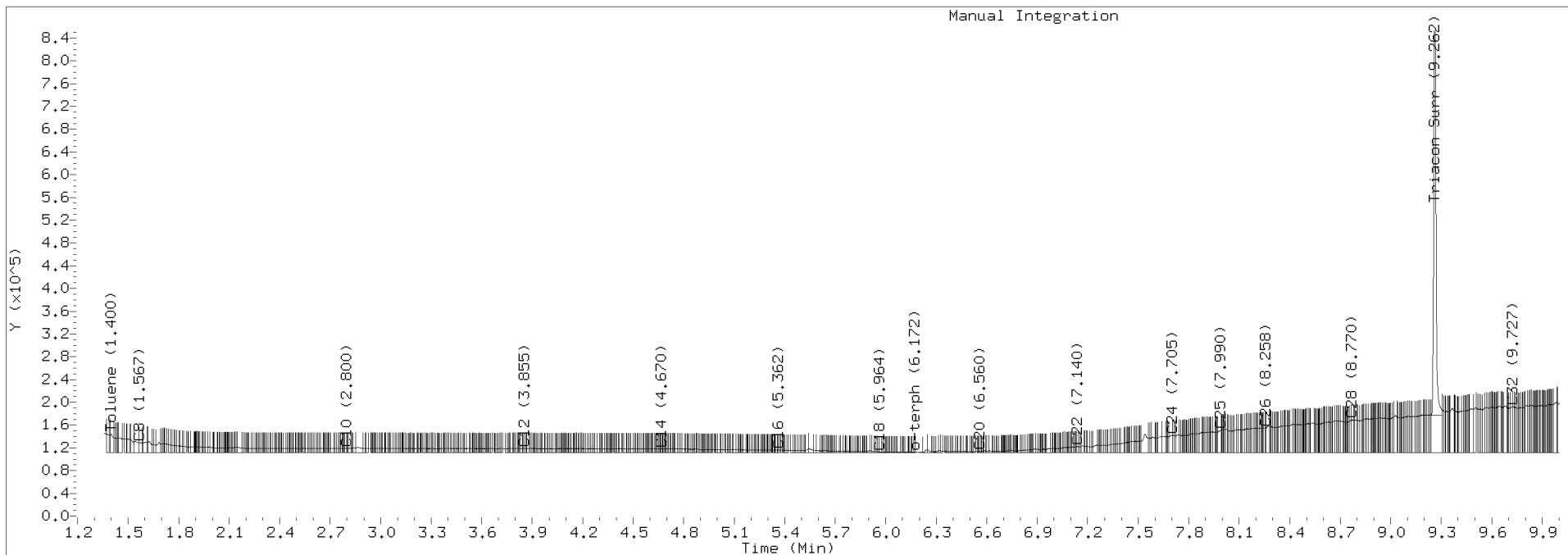
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0634.D Injection: 06-JAN-2022 21:41

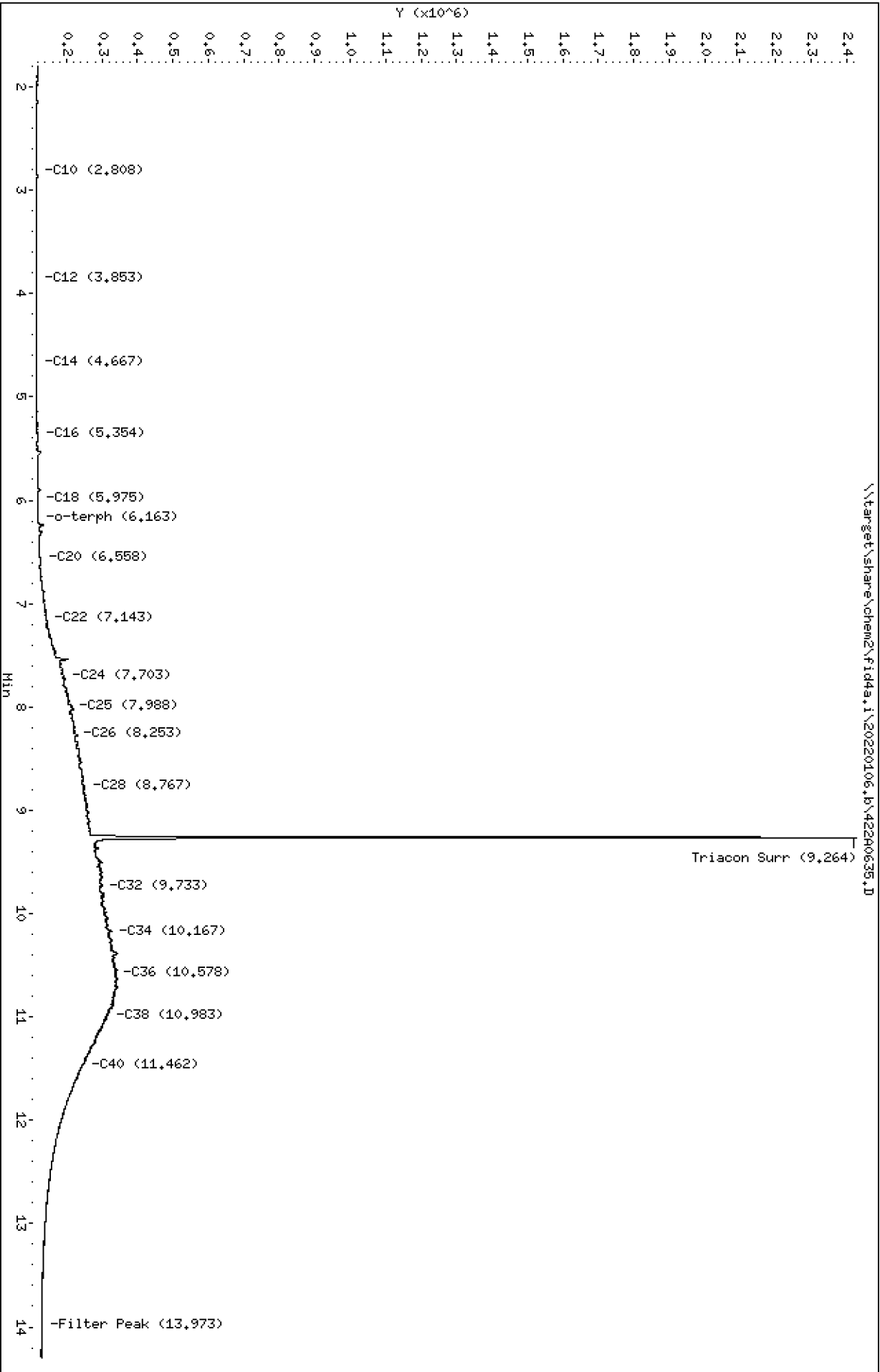
Lab ID:SKA0028-CALD



Data File: \\target\share\chem2\fid4a,1\20220106_b\42240635.D
Date: 06-JAN-2022 22:01
Client ID:
Sample Info: SKR0028-CALE

Column phase: RTX-1

Instrument: fid4a,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0635.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALE
Client ID:
Injection: 06-JAN-2022 22:01
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

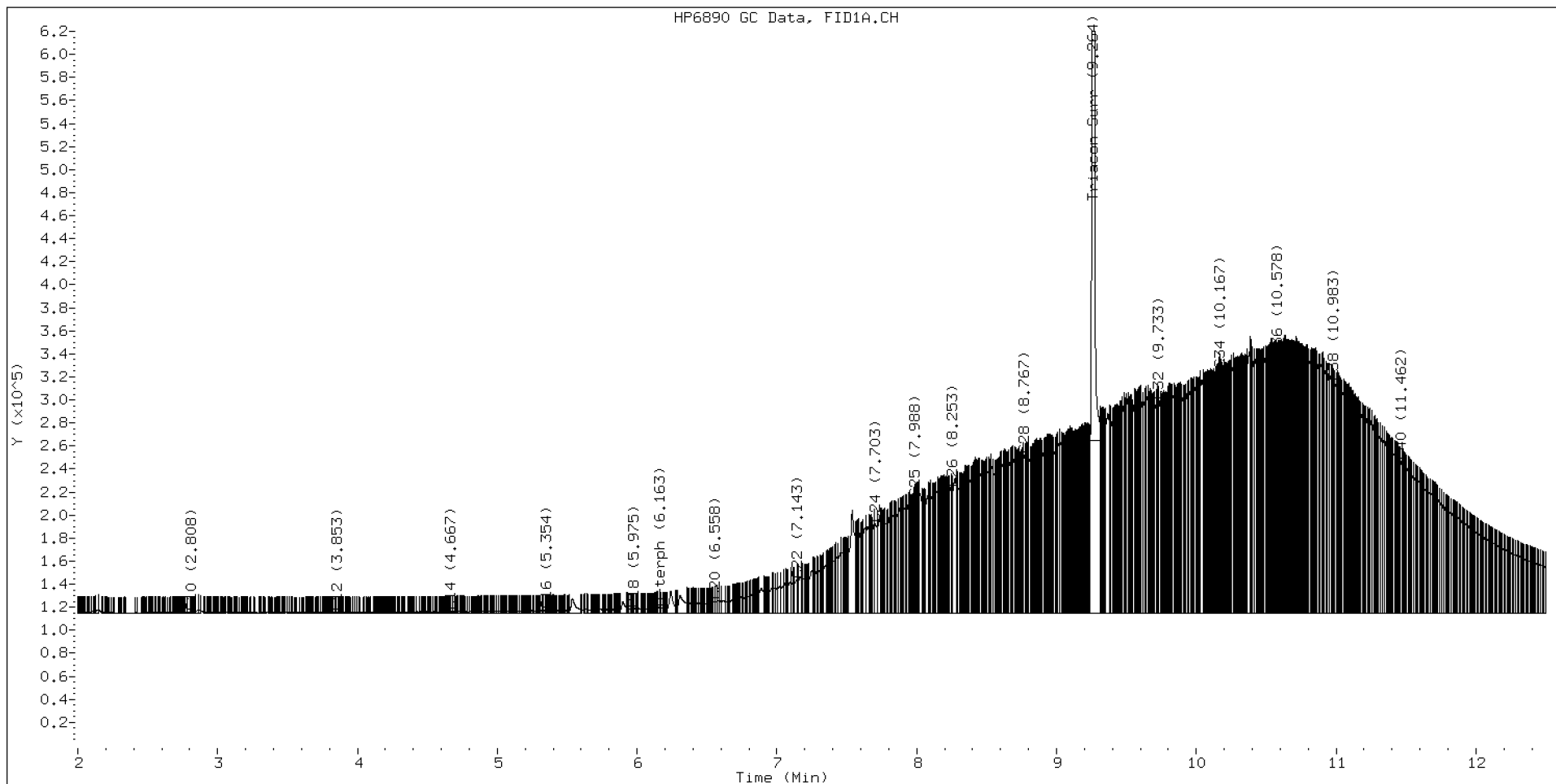
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.577	0.010	8719	1728	WATPHD	(C12-C24)	2929726	20.1
C10	2.808	0.007	730	310	WATPHM	(C24-C38)	31748804	239.5
C12	3.853	-0.006	795	616	AK102	(C10-C25)	3824694	22.2
C14	4.667	-0.001	1277	1021	AK103	(C25-C36)	25645540	259.3
C16	5.354	-0.002	2070	507	OR.DIES	(C10-C28)	9965738	57.4
C18	5.975	0.003	3530	1724				
C20	6.558	-0.002	10355	11106				
C22	7.143	0.001	29007	34388				
C24	7.703	-0.005	77178	83297				
C25	7.988	0.002	98914	48889				
C26	8.253	-0.005	108103	48204				
C28	8.767	-0.009	136834	155381				
C32	9.733	0.004	184014	127408				
C34	10.167	-0.000	211495	52618				
Filter Peak	13.973	0.000	14730	5087				
C36	10.578	-0.003	222240	77716				
C38	10.983	-0.005	200745	129371				
C40	11.462	0.002	131317	97270				
o-terph	6.163	-0.004	4526	2639				
Triacon Surr	9.264	-0.025	2163427	1840060	NAS DIES	(C10-C24)	2959772	17.2

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	2639	0.0
Triacontane	1840060	10.6 M

M Indicates the peak was manually integrated

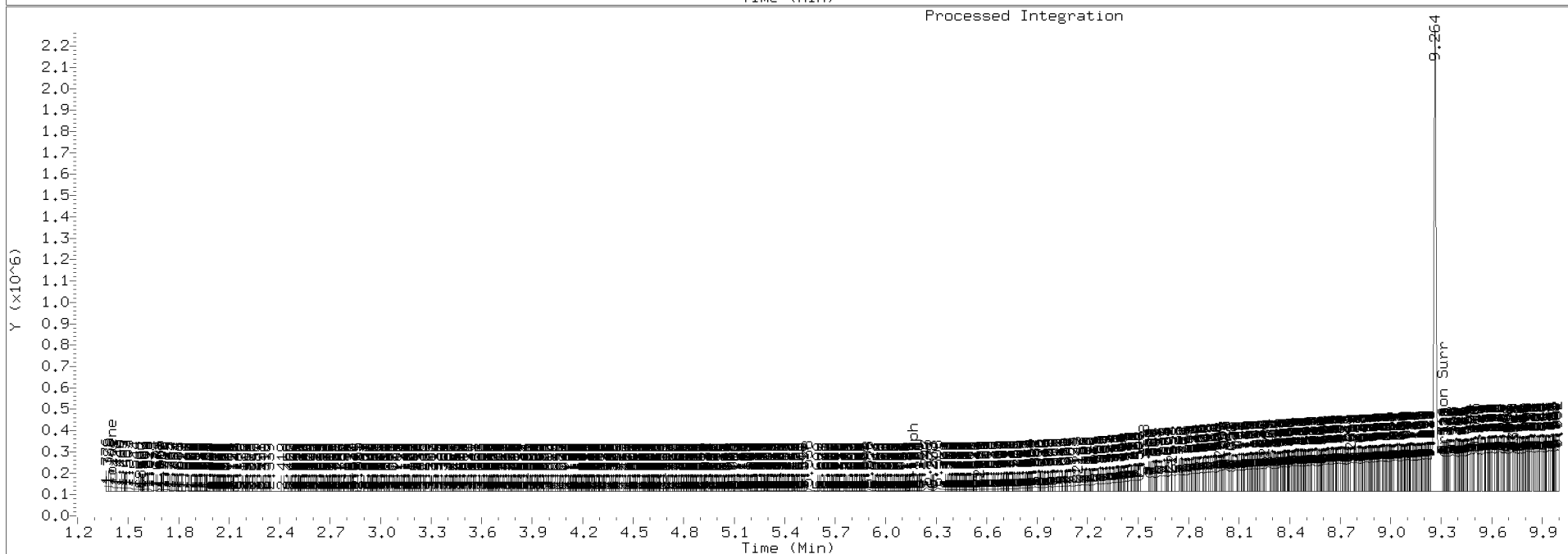
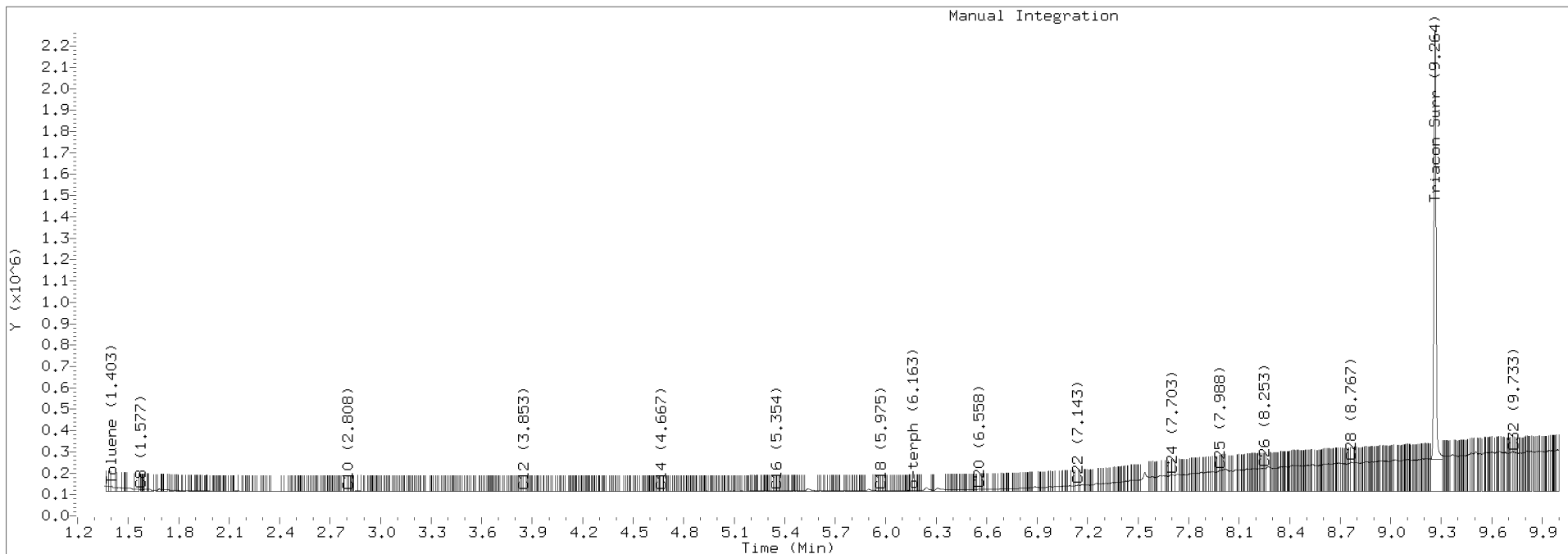
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0635.D Injection: 06-JAN-2022 22:01

Lab ID:SKA0028-CALE

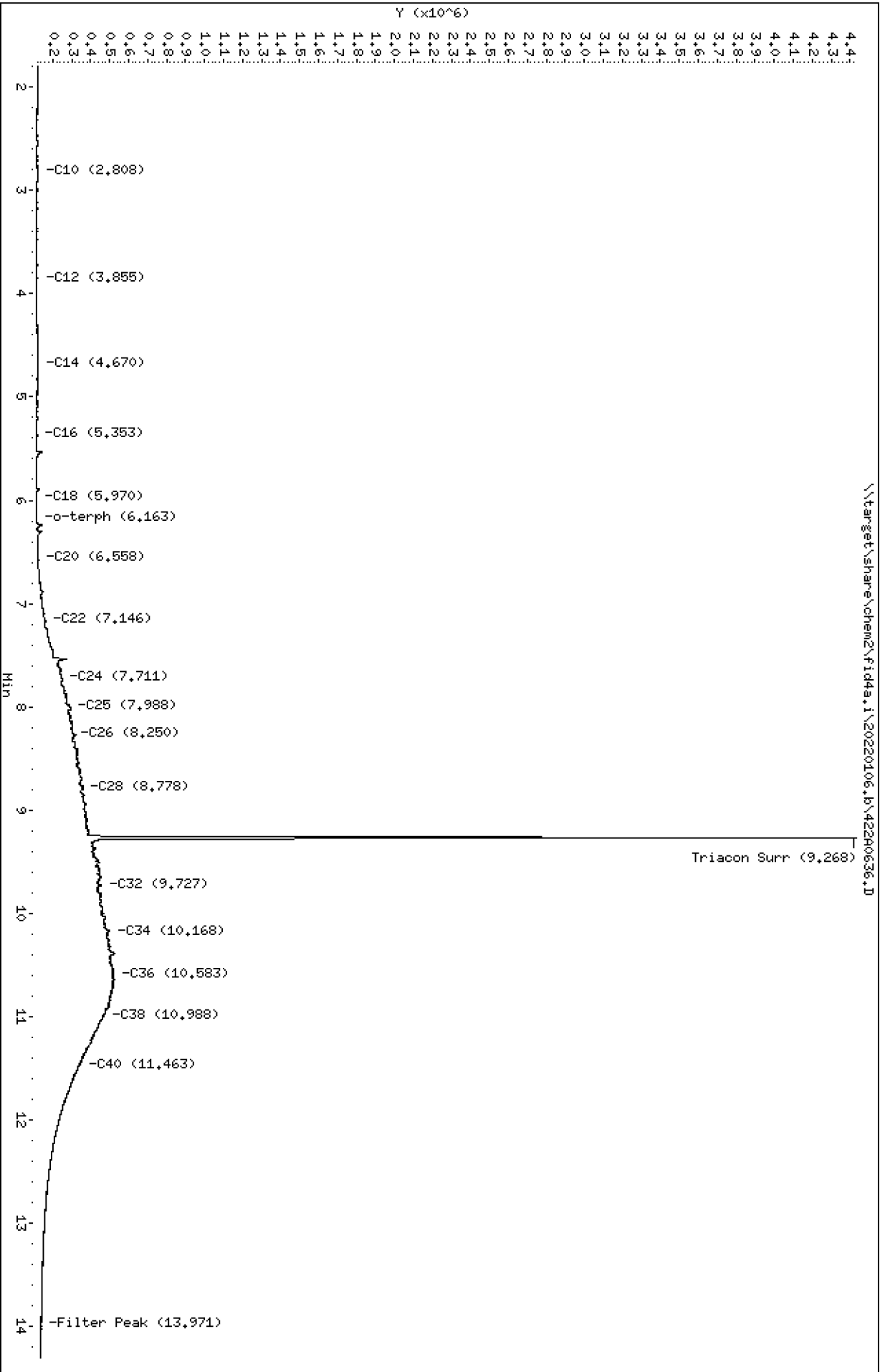


Data File: \\target\share\chem2\fid4a,1\20220106_b\42240636.D
Date: 06-JAN-2022 22:21
Client ID:
Sample Info: SKR0028-CALF

Instrument: fid4a,1

Column phase: RTX-1

Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0636.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALF
Client ID:
Injection: 06-JAN-2022 22:21
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

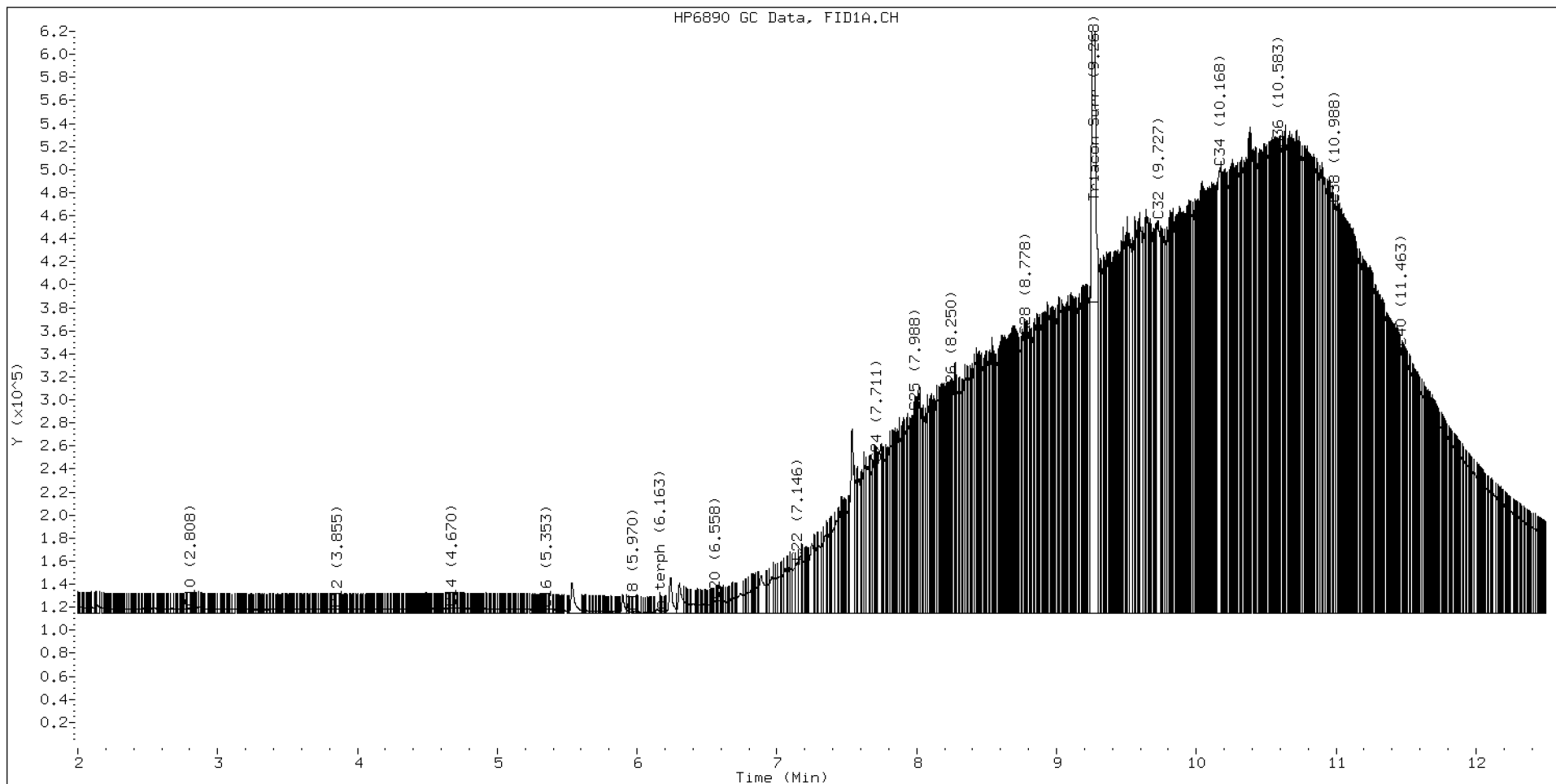
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.588	0.022	14154	9065	WATPHD	(C12-C24)	4637647	31.8
C10	2.808	0.006	3982	972	WATPHM	(C24-C38)	56653473	427.3
C12	3.855	-0.004	3786	3993	AK102	(C10-C25)	6441039	37.4
C14	4.670	0.002	4050	2404	AK103	(C25-C36)	45729418	462.3
C16	5.353	-0.004	3118	761	OR.DIES	(C10-C28)	17026229	98.0
C18	5.970	-0.002	794	203				
C20	6.558	-0.001	10478	9728				
C22	7.146	0.005	44045	65456				
C24	7.711	0.002	130061	38666				
C25	7.988	0.002	174343	60325				
C26	8.250	-0.007	189683	56662				
C28	8.778	0.003	240756	95966				
C32	9.727	-0.003	340946	614753				
C34	10.168	0.001	386820	624600				
Filter Peak	13.971	-0.002	25087	9932				
C36	10.583	0.002	402993	240743				
C38	10.988	-0.000	355088	281638				
C40	11.463	0.003	229950	158804				
o-terph	6.163	-0.005	2082	1126				
Triacon Surr	9.268	-0.022	4048608	3404066	NAS DIES	(C10-C24)	4860533	28.3

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	1126	0.0
Triacontane	3404066	19.5 M

M Indicates the peak was manually integrated

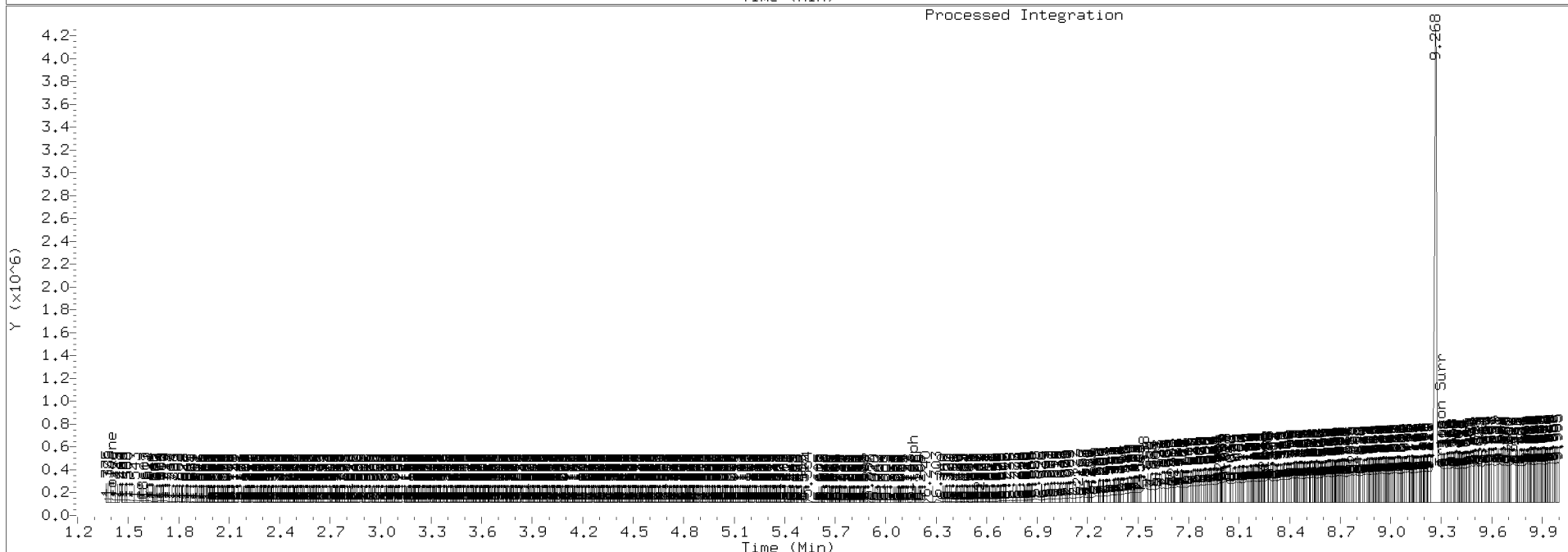
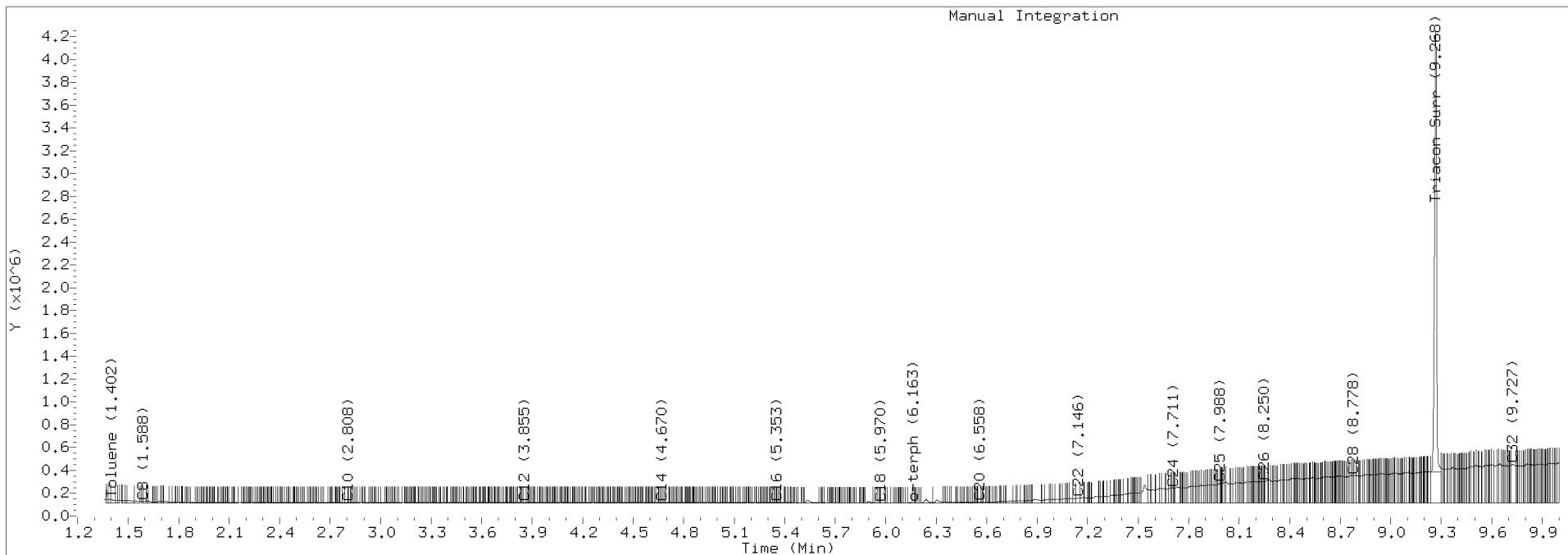
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0636.D Injection: 06-JAN-2022 22:21

Lab ID:SKA0028-CALF



Data File: \\target\share\chem2\fid4a,1\20220106.b\42240637.D

Date : 06-JAN-2022 22:40

Client ID:

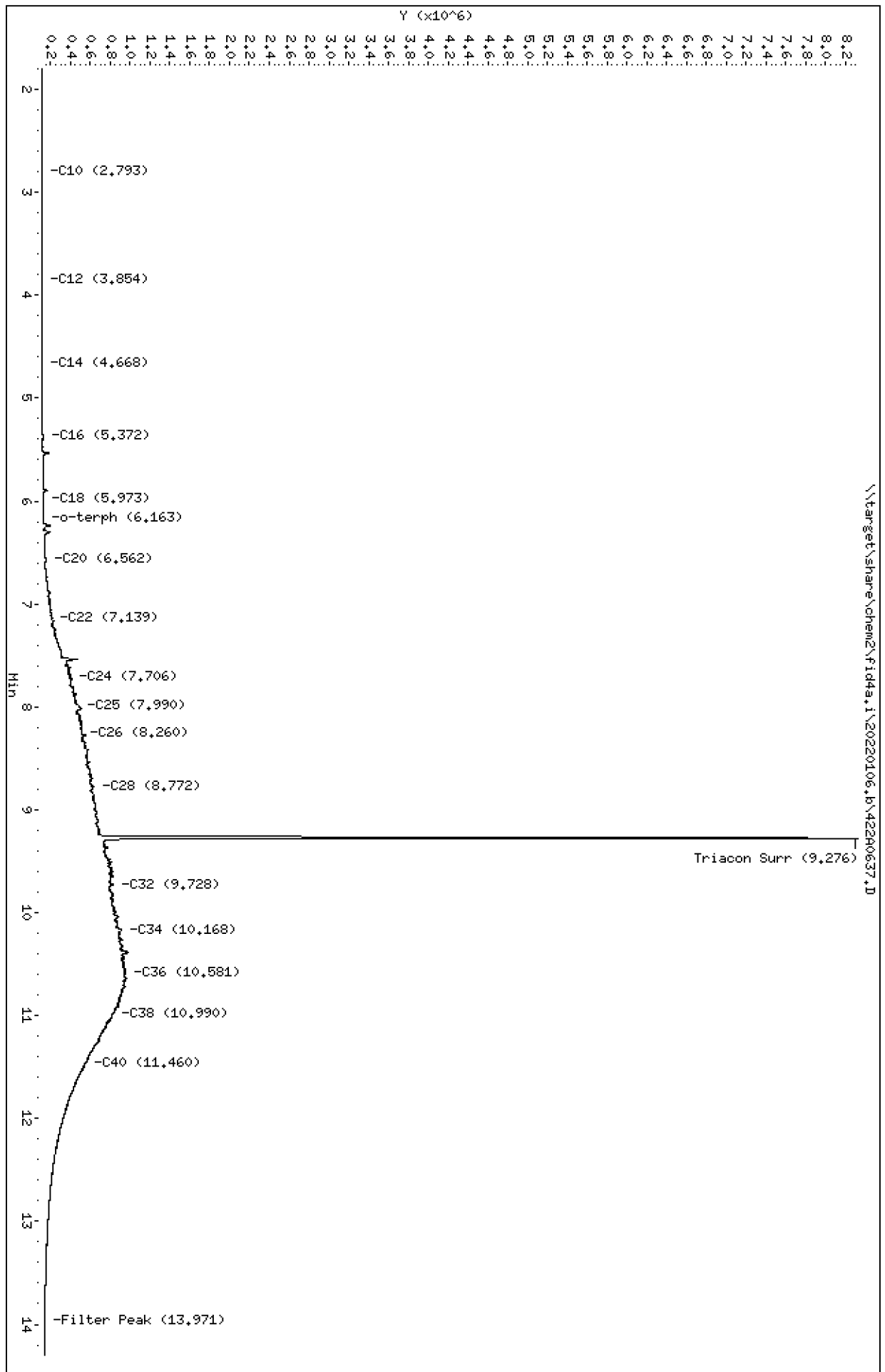
Sample Info: SKR0028-CALG

Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0637.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALG
Client ID:
Injection: 06-JAN-2022 22:40
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

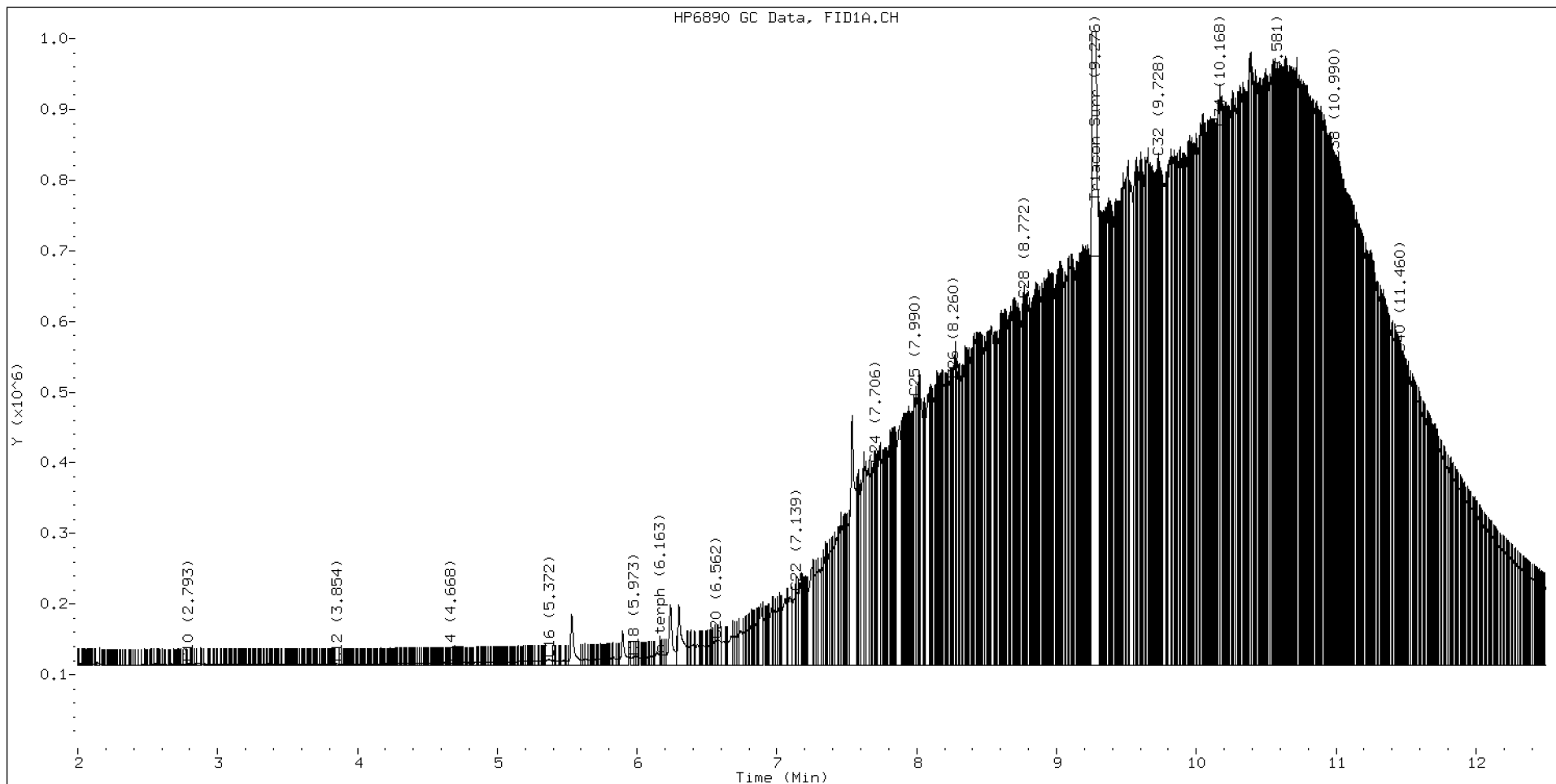
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.564	-0.002	10251	8037	WATPHD	(C12-C24)	10669048	73.2
C10	2.793	-0.009	2989	2545	WATPHM	(C24-C38)	118912028	896.9
C12	3.854	-0.004	3129	3369	AK102	(C10-C25)	14106045	81.9
C14	4.668	-0.000	3674	726	AK103	(C25-C36)	96301748	973.6
C16	5.372	0.016	8563	21003	OR.DIES	(C10-C28)	36905977	212.4
C18	5.973	0.001	11679	12084				
C20	6.562	0.002	35663	24640				
C22	7.139	-0.002	103298	79290				
C24	7.706	-0.003	284447	224436				
C25	7.990	0.004	378257	277820				
C26	8.260	0.003	403438	120714				
C28	8.772	-0.004	516982	255803				
C32	9.728	-0.002	718410	459925				
C34	10.168	0.001	803384	239993				
Filter Peak	13.971	-0.002	27761	6898				
C36	10.581	-0.000	834404	331494				
C38	10.990	0.001	714197	317894				
C40	11.460	0.001	440399	153485				
o-terph	6.163	-0.004	14672	10827				
Triacon Surr	9.276	-0.014	7631149	7112816	NAS DIES	(C10-C24)	10776583	62.7

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	10827	0.1
Triacotane	7112816	40.8 M

M Indicates the peak was manually integrated

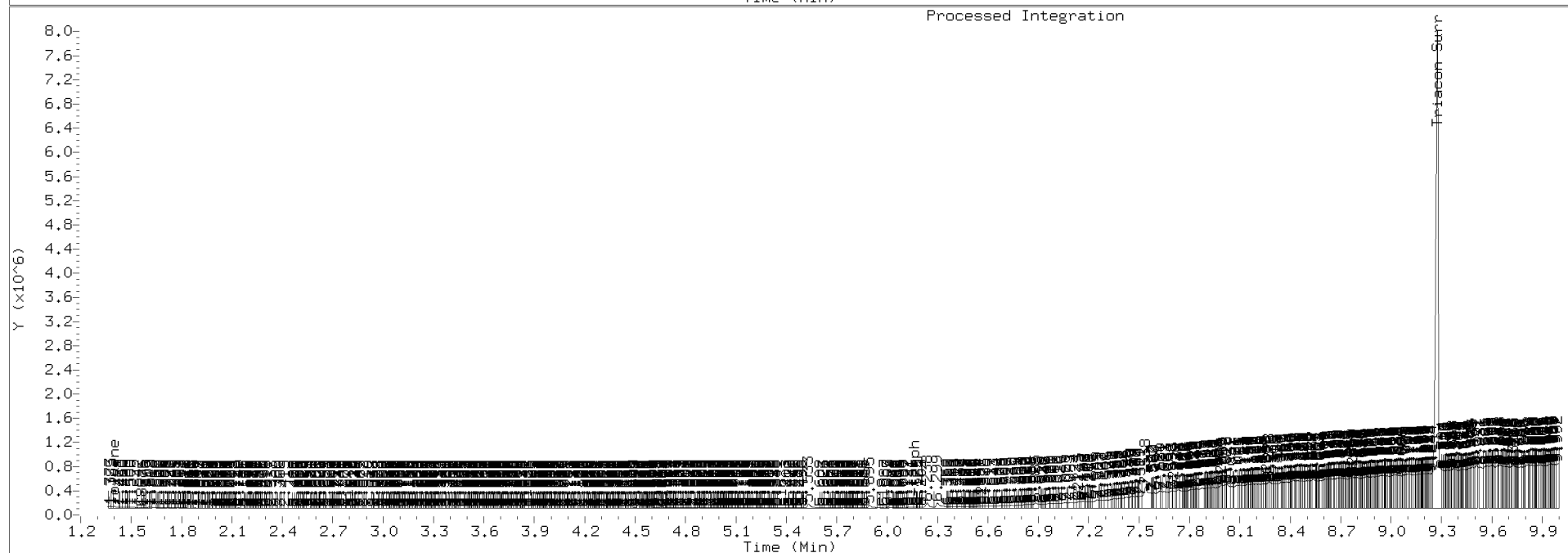
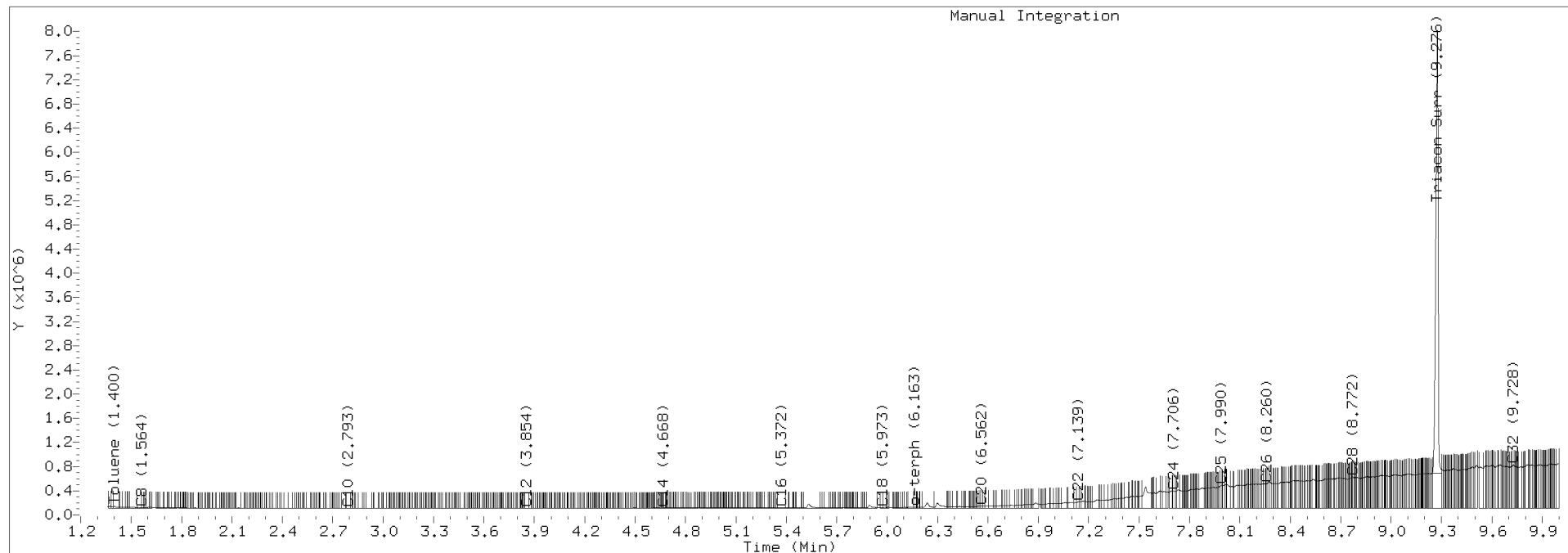
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0637.D Injection: 06-JAN-2022 22:40

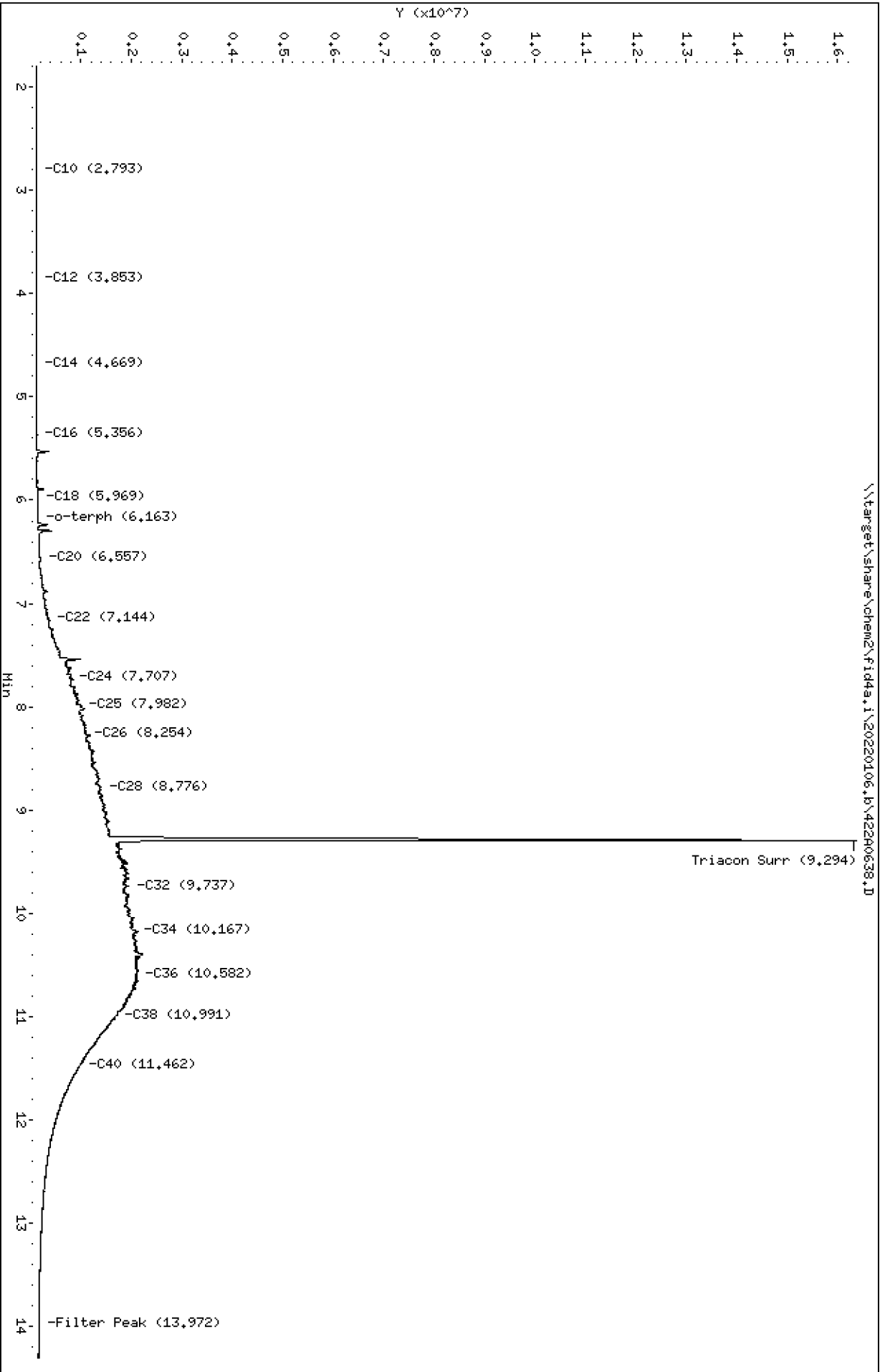
Lab ID:SKA0028-CALG



Data File: \\target\share\chem2\fid4a,1\20220106_b\42240638.D
Date: 06-JAN-2022 23:00
Client ID:
Sample Info: SKR0028-CALLH

Column phase: RTX-1

Instrument: fid4a,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0638.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALH
Client ID:
Injection: 06-JAN-2022 23:00
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

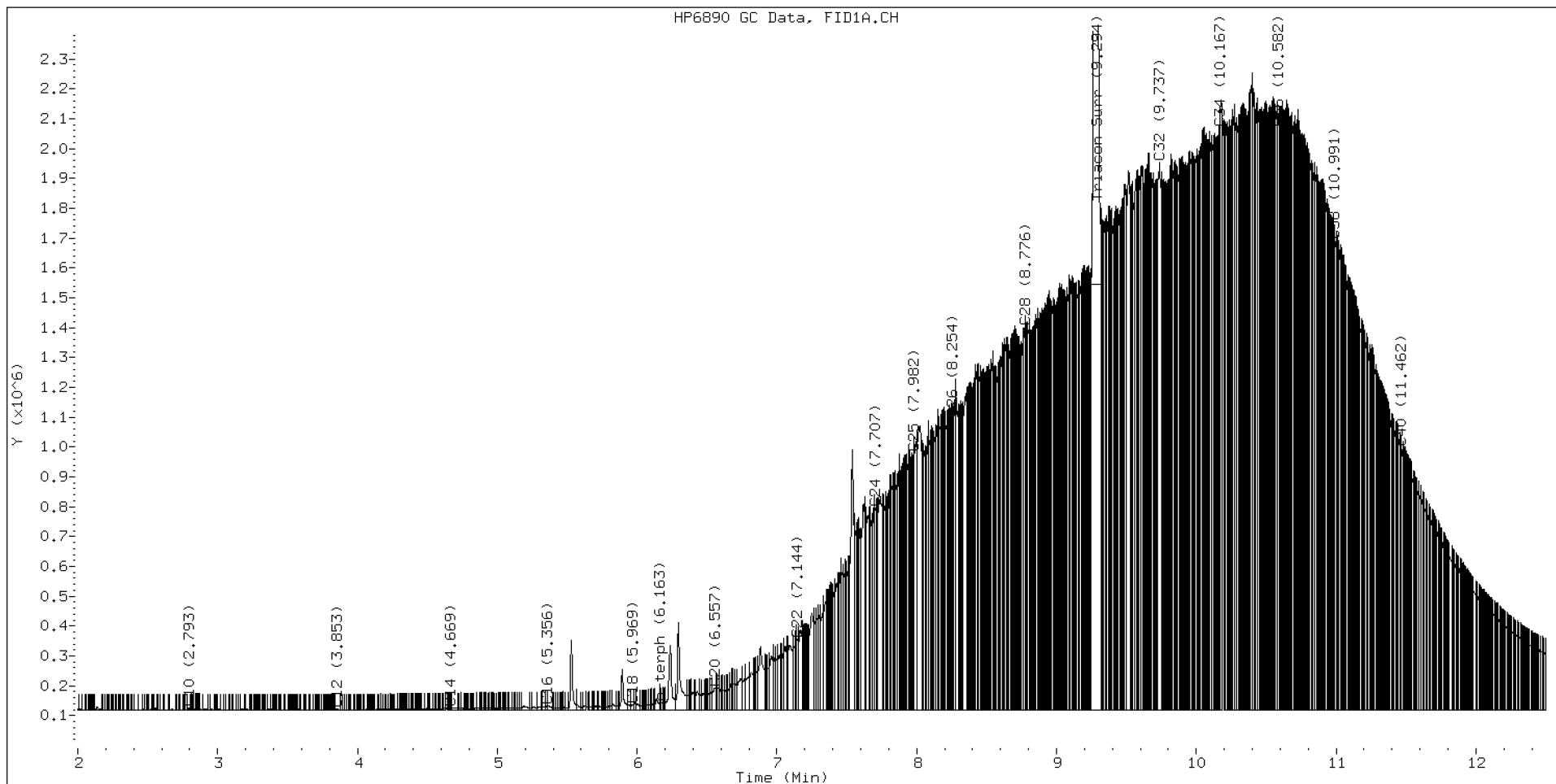
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.550	-0.016	15003	25686	WATPHD	(C12-C24)	24361681	167.1
C10	2.793	-0.008	5806	4253	WATPHM	(C24-C38)	289674025	2184.9
C12	3.853	-0.006	4910	5292	AK102	(C10-C25)	32275990	187.4
C14	4.669	0.001	5973	2906	AK103	(C25-C36)	237850338	2404.7
C16	5.356	-0.001	13540	11261	OR.DIES	(C10-C28)	87712919	504.8
C18	5.969	-0.003	19481	20038				
C20	6.557	-0.003	74936	126475				
C22	7.144	0.003	236942	186098				
C24	7.707	-0.002	677766	469515				
C25	7.982	-0.005	863746	542351				
C26	8.254	-0.003	976816	340522				
C28	8.776	0.000	1285059	822854				
C32	9.737	0.008	1833990	3204593				
C34	10.167	-0.001	1975729	1066182				
Filter Peak	13.972	-0.001	47695	14242				
C36	10.582	0.001	1998401	1188859				
C38	10.991	0.002	1575341	1017575				
C40	11.462	0.002	881216	482236				
o-terph	6.163	-0.004	24484	15319				
Triacon Surr	9.294	0.004	14822727	18477737	NAS DIES	(C10-C24)	24461975	142.4

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	15319	0.1
Triacotane	18477737	106.1 M

M Indicates the peak was manually integrated

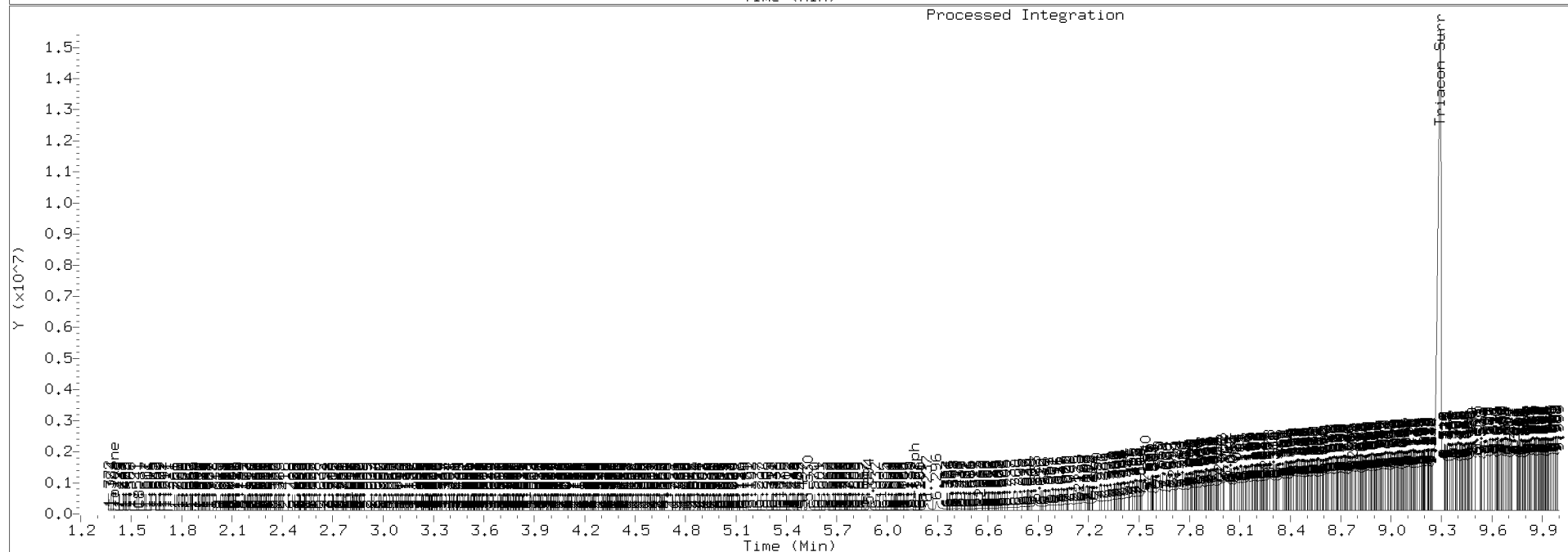
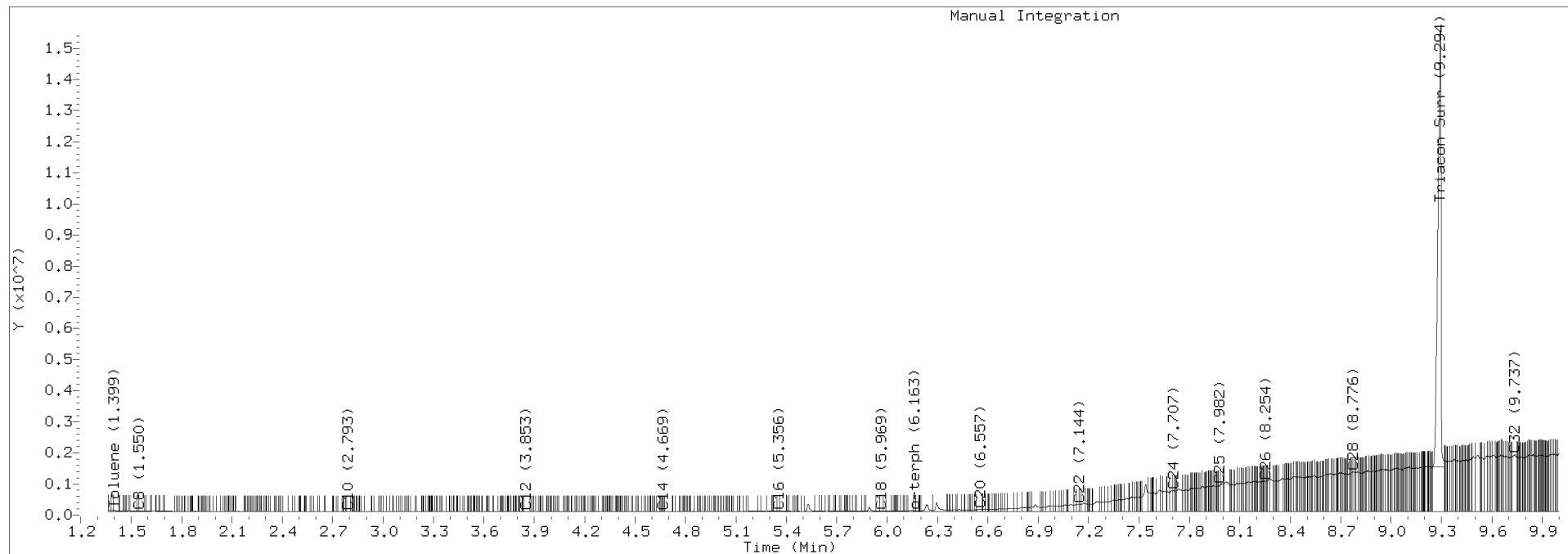
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0638.D Injection: 06-JAN-2022 23:00

Lab ID:SKA0028-CALH

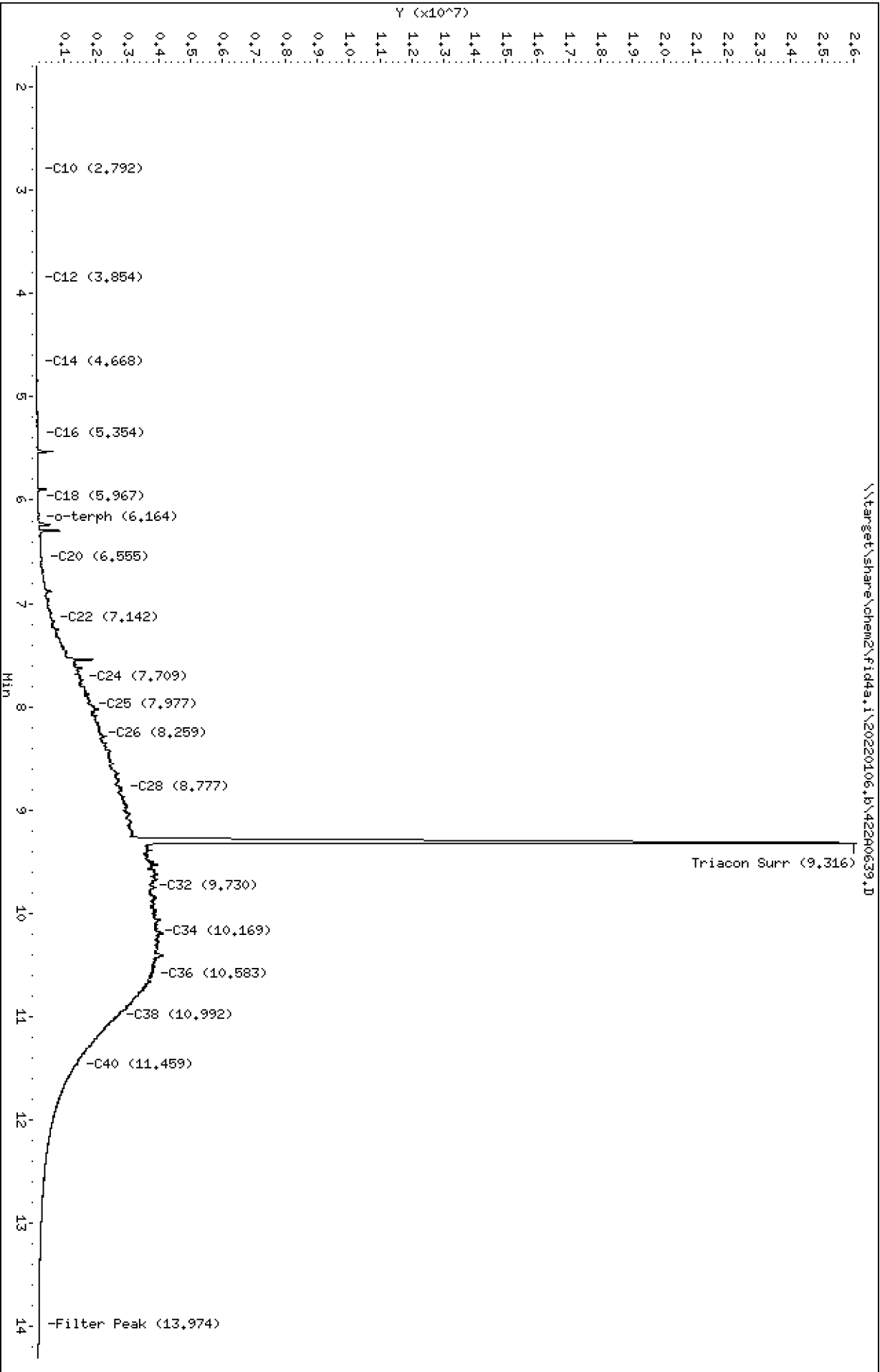


Data File: \\target\share\chem2\fid4a,1\20220106_b\42240639.D
Date: 06-JAN-2022 23:20
Client ID:
Sample Info: SKR0028-CALI

Instrument: fid4a,1

Column phase: RTX-1

Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0639.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALI
Client ID:
Injection: 06-JAN-2022 23:20
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

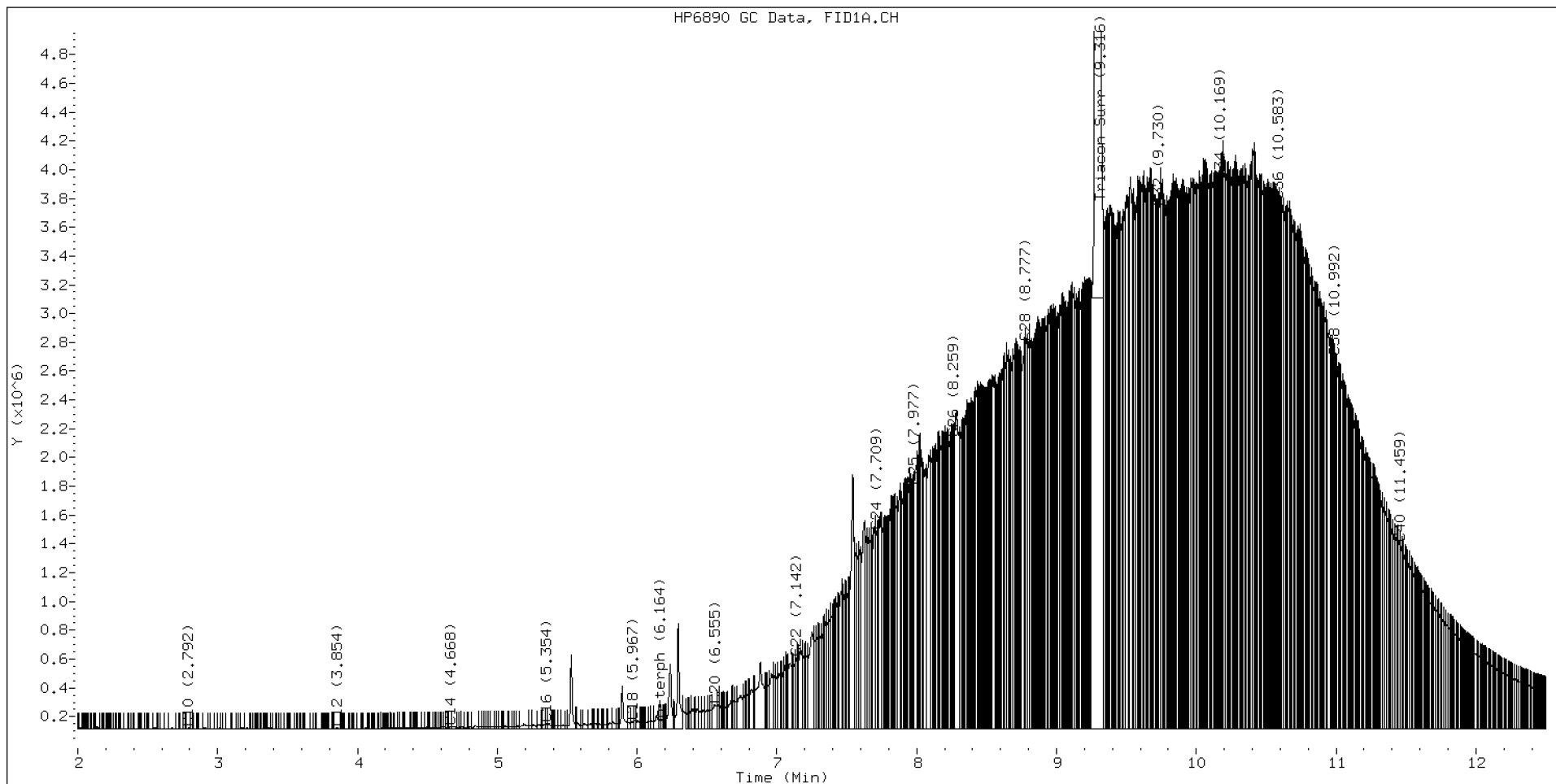
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.565	-0.001	11725	6933	WATPHD	(C12-C24)	51665018	354.5
C10	2.792	-0.009	11749	9511	WATPHM	(C24-C38)	580345070	4377.3
C12	3.854	-0.005	12714	17010	AK102	(C10-C25)	67592612	392.4
C14	4.668	-0.000	16107	18663	AK103	(C25-C36)	492594942	4980.3
C16	5.354	-0.003	36148	36162	OR.DIES	(C10-C28)	183451140	1055.7
C18	5.967	-0.005	54500	58780				
C20	6.555	-0.004	168086	345395				
C22	7.142	0.001	496825	426514				
C24	7.709	-0.000	1380379	821529				
C25	7.977	-0.009	1684832	419304				
C26	8.259	0.002	2021095	604905				
C28	8.777	0.001	2684125	1195563				
C32	9.730	0.001	3627512	1086662				
C34	10.169	0.001	3804924	1327718				
Filter Peak	13.974	0.001	71473	21315				
C36	10.583	0.001	3665808	1277336				
C38	10.992	0.003	2584308	1280144				
C40	11.459	-0.000	1288075	1197871				
o-terph	6.164	-0.003	64420	50439				
Triacon Surr	9.316	0.026	22993117	39002952	NAS DIES	(C10-C24)	51959316	302.5

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	50439	0.3
Triacotane	39002952	223.9 M

M Indicates the peak was manually integrated

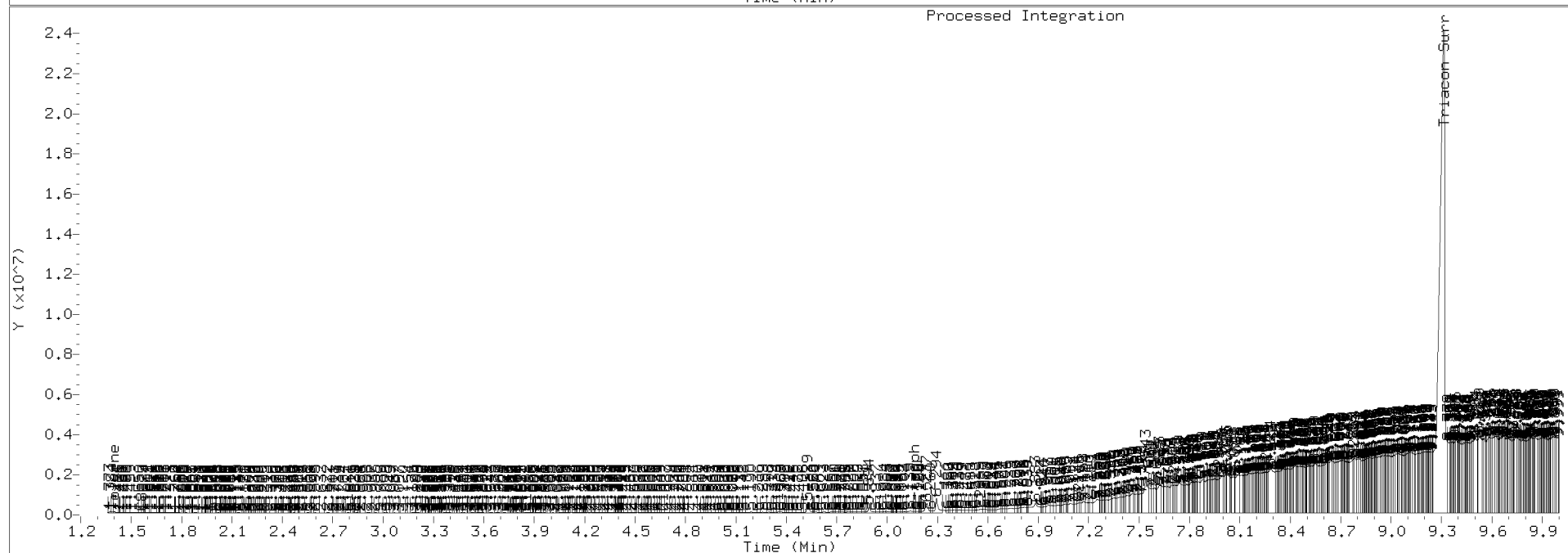
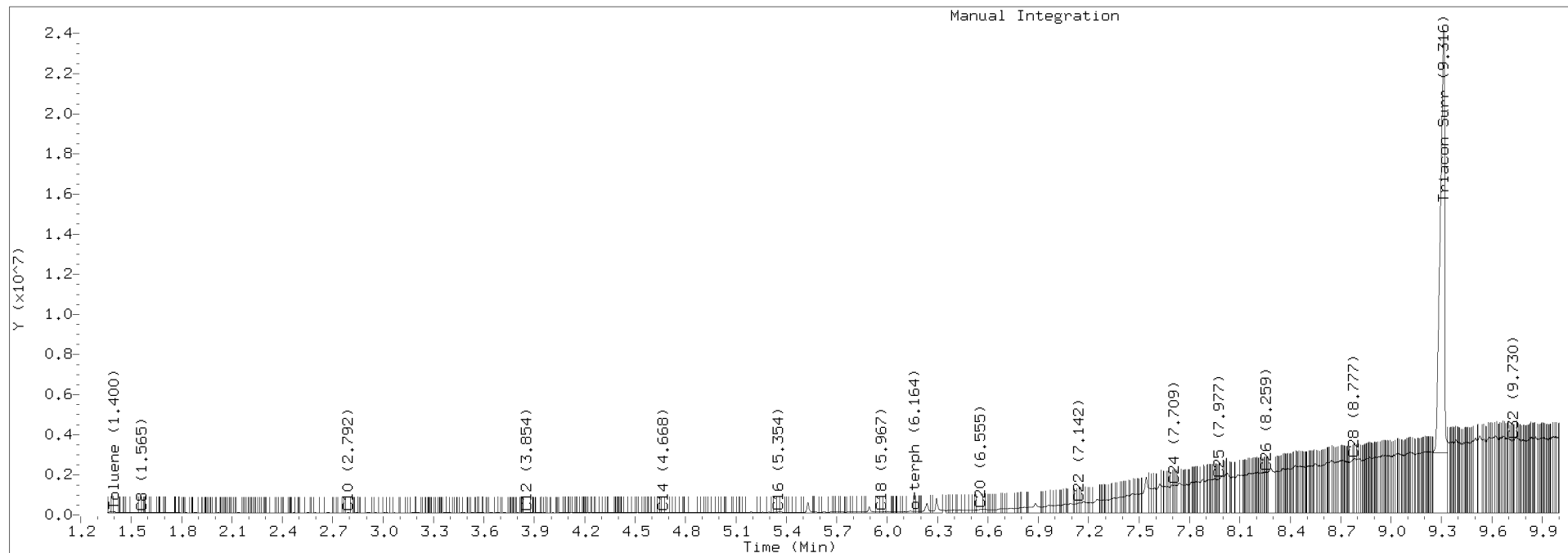
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0639.D Injection: 06-JAN-2022 23:20

Lab ID:SKA0028-CALI



Data File: \\target\share\chem2\fid4a,1\20220106.b\42240640.D

Date: 06-JAN-2022 23:40

Client ID:

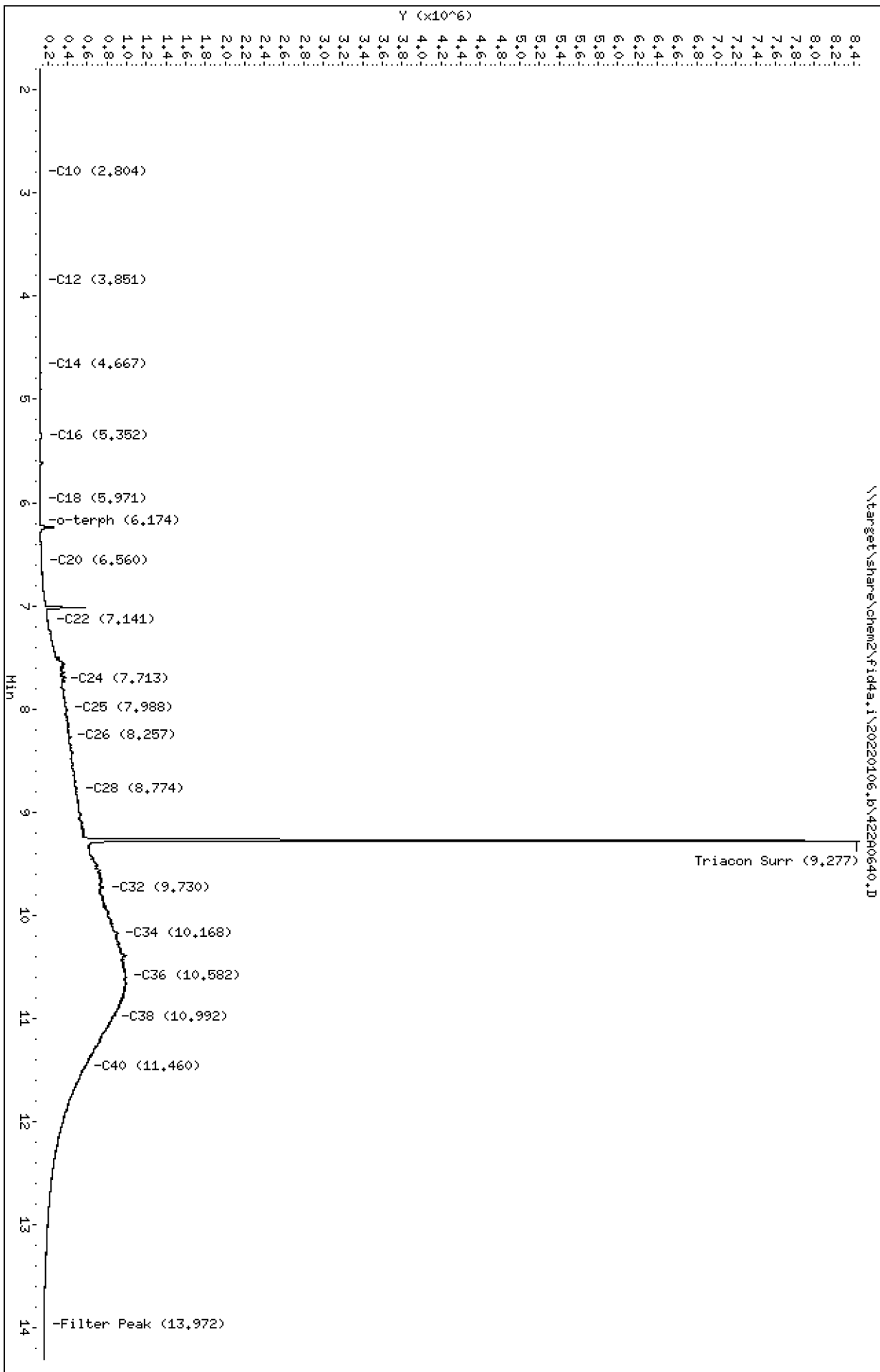
Sample Info: SKR0028-SCV3

Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0640.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-SCV3
Client ID:
Injection: 06-JAN-2022 23:40
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

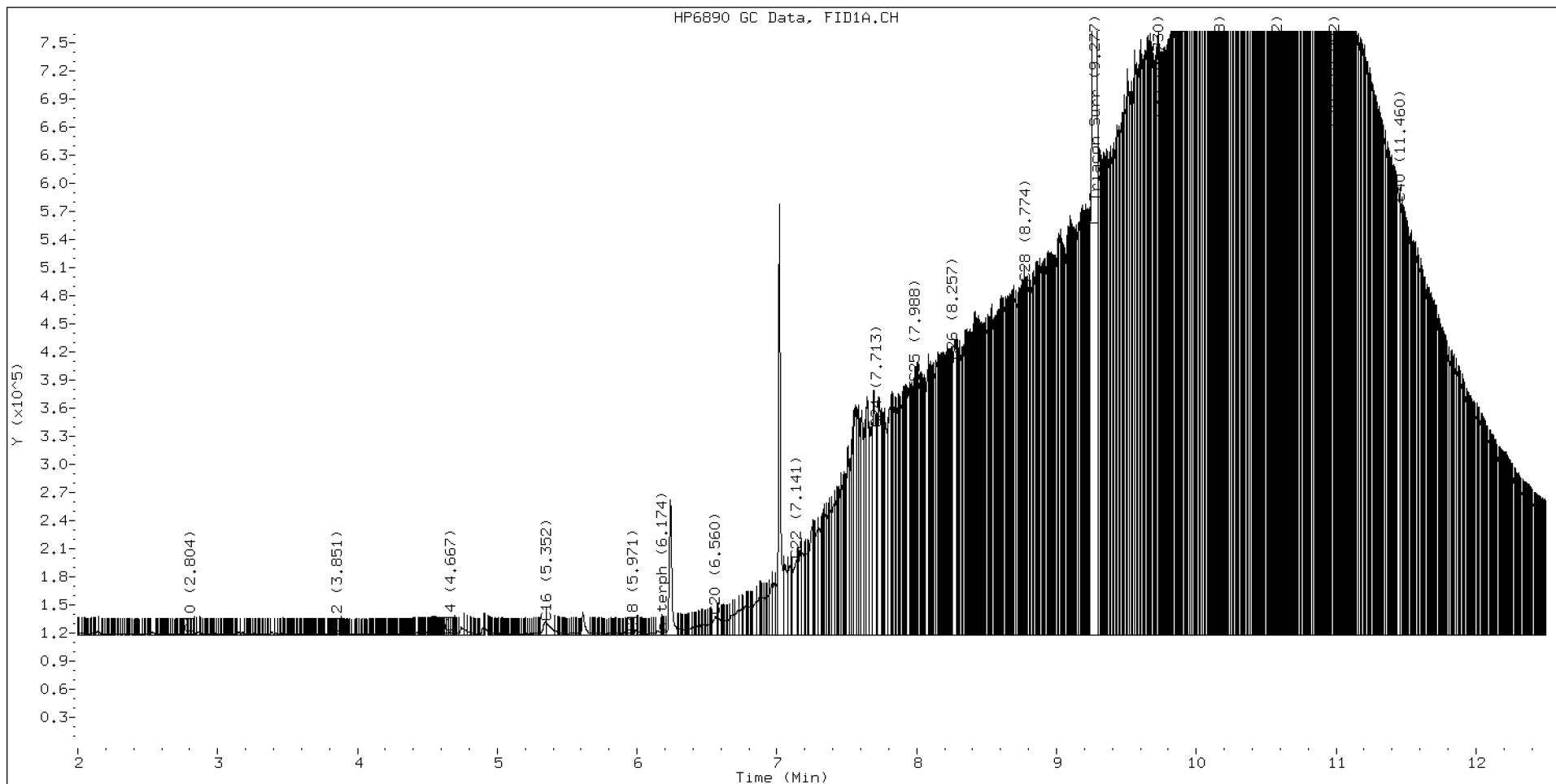
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.565	-0.001	10365	9390	WATPHD	(C12-C24)	8234302	56.5
C10	2.804	0.003	643	178	WATPHM	(C24-C38)	105151101	793.1
C12	3.851	-0.008	703	353	AK102	(C10-C25)	10715206	62.2
C14	4.667	-0.001	2250	441	AK103	(C25-C36)	83158236	840.8
C16	5.352	-0.005	13074	30853	OR.DIES	(C10-C28)	27148572	156.2
C18	5.971	-0.001	2056	1103				
C20	6.560	0.000	19188	37853				
C22	7.141	-0.001	79210	165645				
C24	7.713	0.004	220193	54885				
C25	7.988	0.002	269226	184162				
C26	8.257	-0.001	291878	87241				
C28	8.774	-0.001	375908	167319				
C32	9.730	0.000	638880	408276				
C34	10.168	0.001	789241	274861				
Filter Peak	13.972	-0.001	40486	34016				
C36	10.582	0.000	869081	432796				
C38	10.992	0.003	735926	146906				
C40	11.460	0.000	461343	320017				
o-terph	6.174	0.007	2337	668				
Triacon Surr	9.277	-0.013	7897642	7651039	NAS DIES	(C10-C24)	8285201	48.2

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	668	0.0
Triacontane	7651039	43.9 M

M Indicates the peak was manually integrated

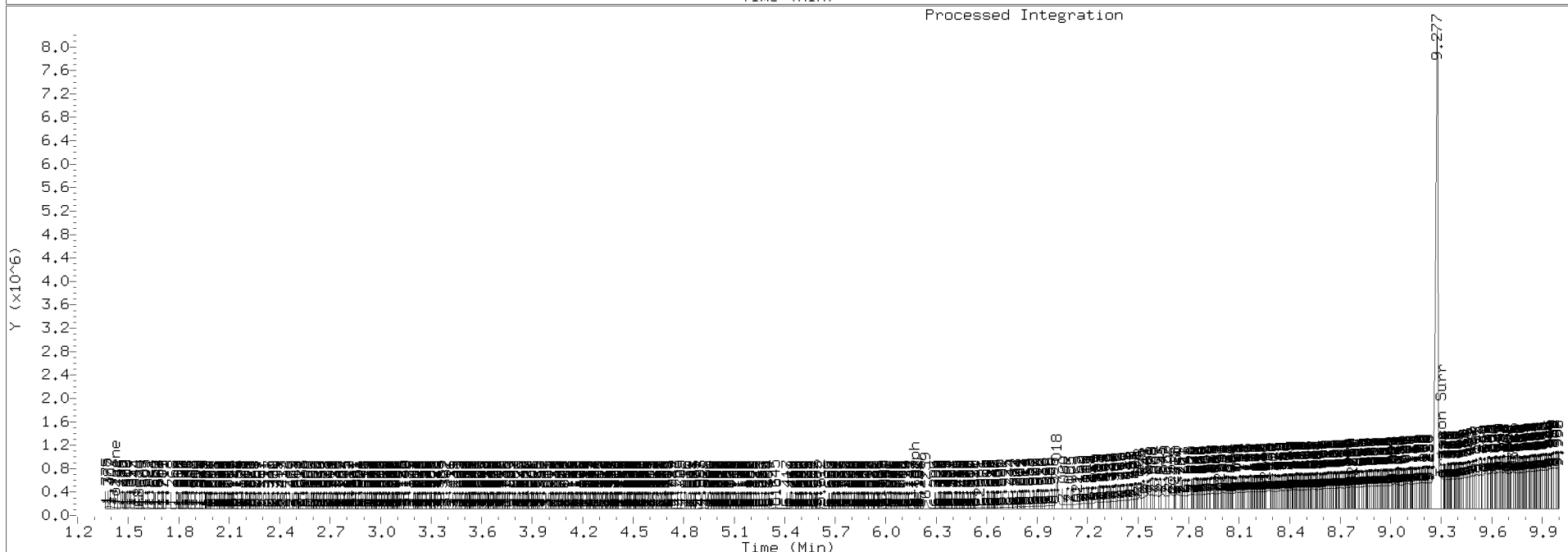
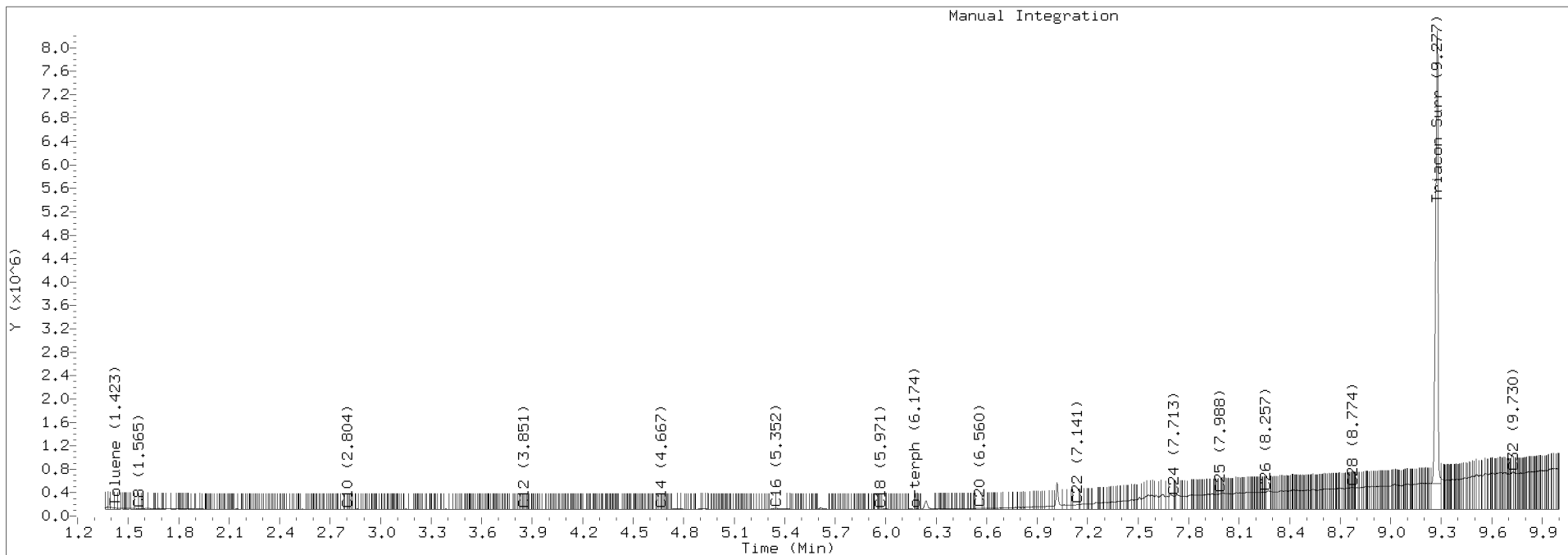
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0640.D Injection: 06-JAN-2022 23:40

Lab ID:SKA0028-SCV3





INITIAL CALIBRATION DATA NWTPH-Dx

Laboratory: Analytical Resources, LLC SDG: 22G0121
Client: GeoEngineers Project: RG Haley Site-Bellingham
Calibration: FA00054 Instrument: FID4
Calibration Date: 01/31/2022 Column (1): RTX-1

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Motor Oil Range Organics (C24-C38)	100	144183.9	250	135640.8	500	130722.5	1000	129320.4	5000	125827.6	2500	129779.6



INITIAL CALIBRATION DATA
NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FA00054

Instrument: FID4

Calibration Date: 01/31/2022

Column (1): RTX-1

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Diesel Range Organics (C12-C24)	50	148882.4	100	147074	250	171635.1	500	161283	1000	162430.4	2500	160525.3
o-Terphenyl	9	166611.4	18	193915.6	45	214247.7	90	212078.6	180	216862.8	450	218088.5



INITIAL CALIBRATION DATA
NWTPH-Dx

Laboratory:	Analytical Resources, LLC	SDG:	22G0121
Client:	GeoEngineers	Project:	RG Haley Site-Bellingham
Calibration:	FA00054	Instrument:	FID4
Calibration Date:	01/31/2022	Column (1):	RTX-1

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Diesel Range Organics (C12-C24)	158638.4	5.8			RSD (20)	
Diesel Range Organics (C12-C24)	158638.4	5.8			RSD (20)	
Motor Oil Range Organics (C24-C38)	132579.1	4.9			RSD (20)	
Jet-A Range Organics (C10-C18)		0.0			RSD (20)	
Bunker C Range Organics (C10-C38)	59438.64	6.9			RSD (20)	
o-Terphenyl	203634.1	9.9			RSD (20)	



ANALYSIS SEQUENCE

SKA0208

Instrument: FID4
Calibration ID: FA00054

Printed: 1/31/2022 12:44:05PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKA0208-IBL1	QC		1		J002430			
SKA0208-IBL2	QC		2		J012751			
SKA0208-CAL1	QC		3		K000192			
SKA0208-CAL2	QC		4		K000193			
SKA0208-CAL3	QC		5		K000194			
SKA0208-CAL4	QC		6		K000195			
SKA0208-CAL5	QC		7		K000196			
SKA0208-CAL6	QC		8		J012752			
SKA0208-SCV1	QC		9		J009677			

Samples Loaded By

Date

Data Processed By

Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220120.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	20-JAN-2022	10:32	422A2001.D	1	RINSE	
2	20-JAN-2022	10:51	422A2002.D	1	RINSE	
3	20-JAN-2022	11:11	422A2003.D	1	SKA0208-IBL1	
4	20-JAN-2022	11:31	422A2004.D	1	SKA0208-IBL2	
5	20-JAN-2022	11:51	422A2005.D	1	SKA0208-CAL1	
6	20-JAN-2022	12:11	422A2006.D	1	SKA0208-CAL2	
7	20-JAN-2022	12:30	422A2007.D	1	SKA0208-CAL3	
8	20-JAN-2022	12:50	422A2008.D	1	SKA0208-CAL4	
9	20-JAN-2022	13:10	422A2009.D	1	SKA0208-CAL5	
10	20-JAN-2022	13:30	422A2010.D	1	SKA0208-CAL6	
11	20-JAN-2022	13:50	422A2011.D	1	SKA0208-SCV1	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220120.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 20-JAN-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1032	422A2001.D	RINSE		1	NO MANUAL INTEGRATION
1051	422A2002.D	RINSE		1	NO MANUAL INTEGRATION
1111	422A2003.D	SKA0208-IBL1		1	NO MANUAL INTEGRATION
1131	422A2004.D	SKA0208-IBL2		1	NO MANUAL INTEGRATION
1151	422A2005.D	SKA0208-CAL1		1	o-terph,
1211	422A2006.D	SKA0208-CAL2		1	o-terph,
1230	422A2007.D	SKA0208-CAL3		1	o-terph,
1250	422A2008.D	SKA0208-CAL4		1	o-terph,
1310	422A2009.D	SKA0208-CAL5		1	o-terph,
1330	422A2010.D	SKA0208-CAL6		1	o-terph,
1350	422A2011.D	SKA0208-SCV1		1	NO MANUAL INTEGRATION

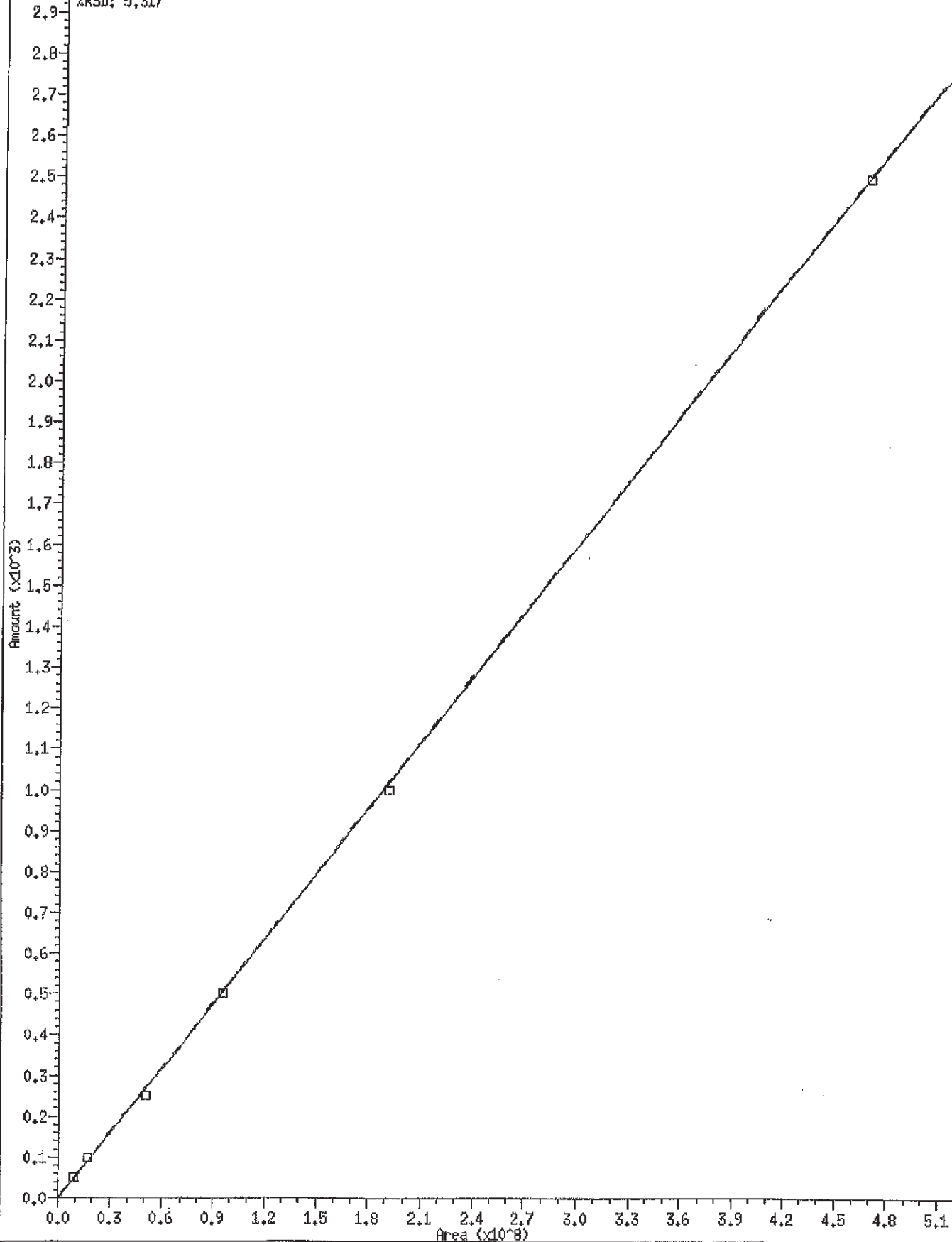
Security Status Report

Date: 31-Jan-2022 12:44

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422A2002.D	Data Locked	victoria, 21-Jan-2022 13:24
422A2003.D	Data Locked	victoria, 21-Jan-2022 13:24
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422A2006.D	Data Locked	victoria, 21-Jan-2022 13:24
422A2007.D	Data Locked	victoria, 21-Jan-2022 13:24
422A2008.D	Data Locked	victoria, 21-Jan-2022 13:24
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422A2011.D	Data Locked	victoria, 28-Jan-2022 13:52

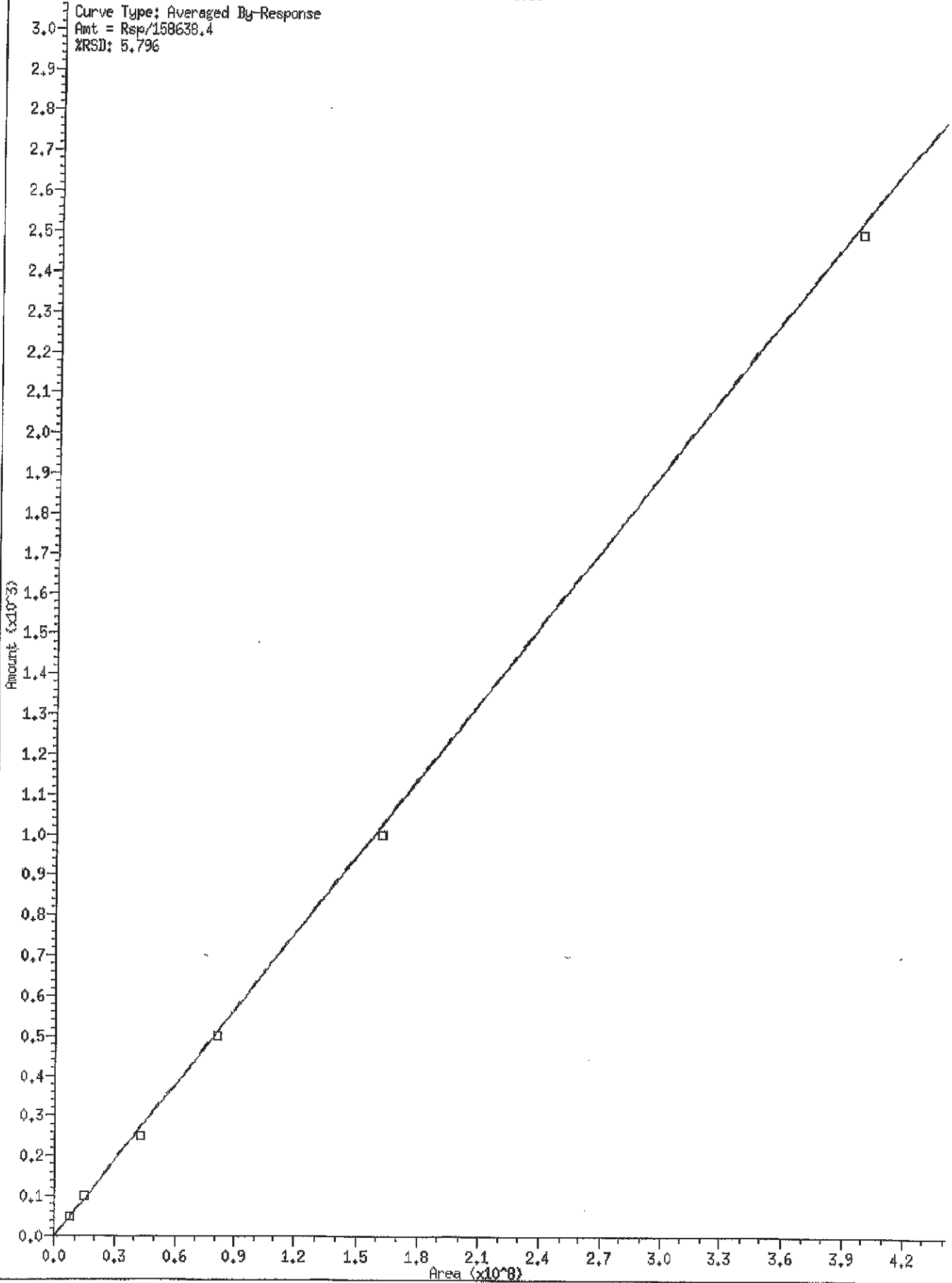
40 NAS Diesel

Curve Type: Averaged By-Response
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%RSD: 5.317

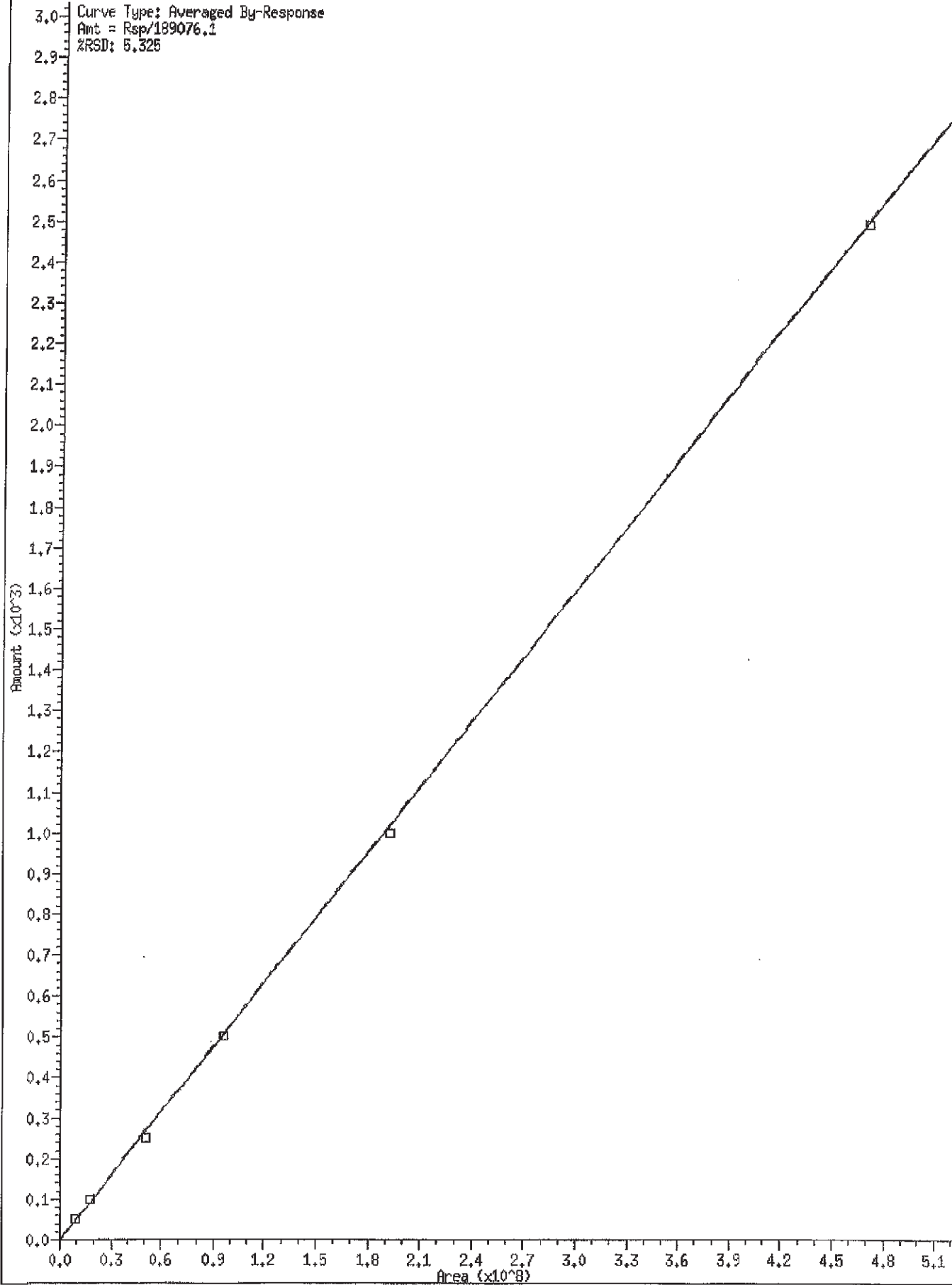


29 NW Diesel

Curve Type: Averaged By-Response
Amt = Resp/158638.4
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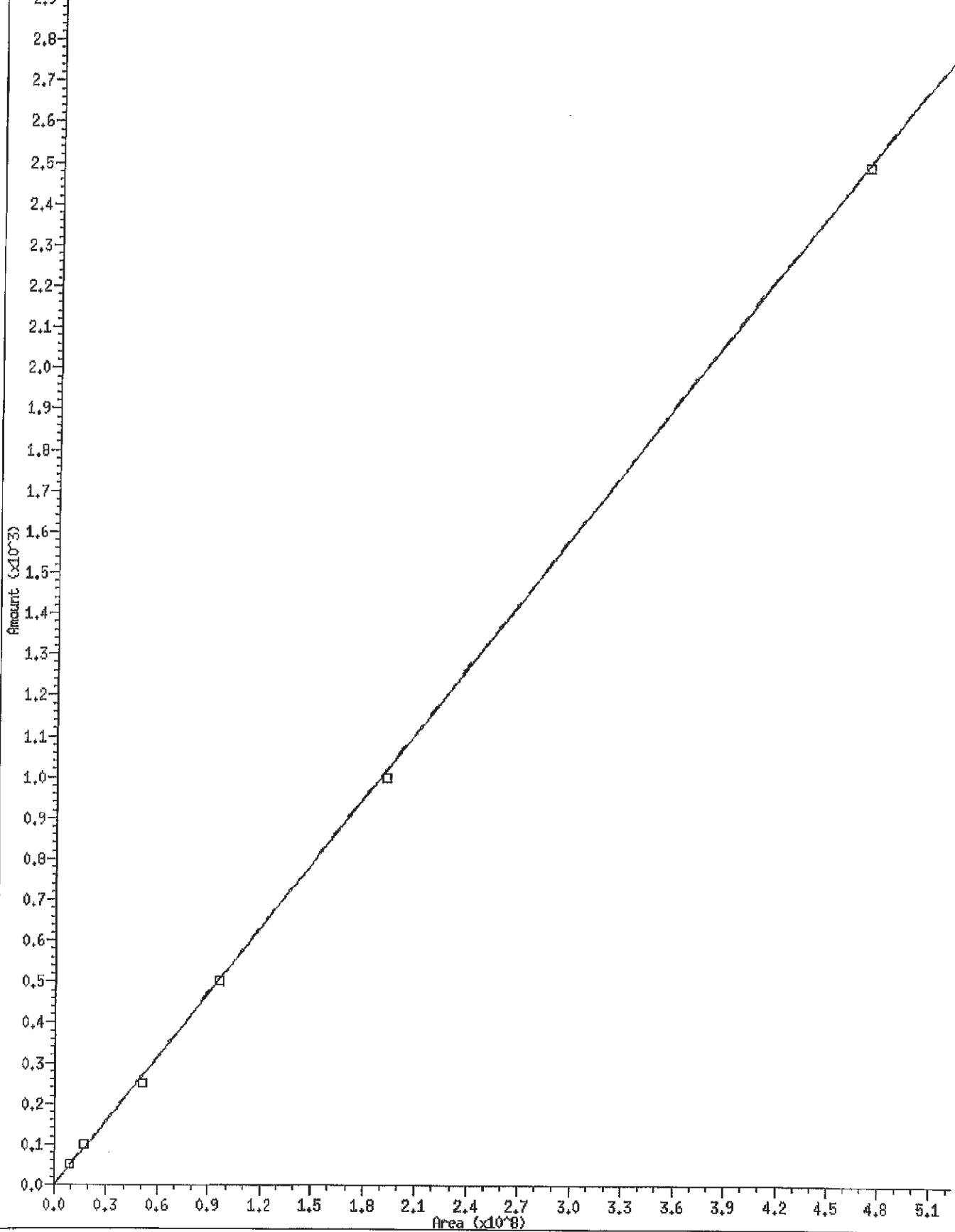


Curve Type: Averaged By-Response
Amt = Rsp/189076.1
%RSD: 5.325



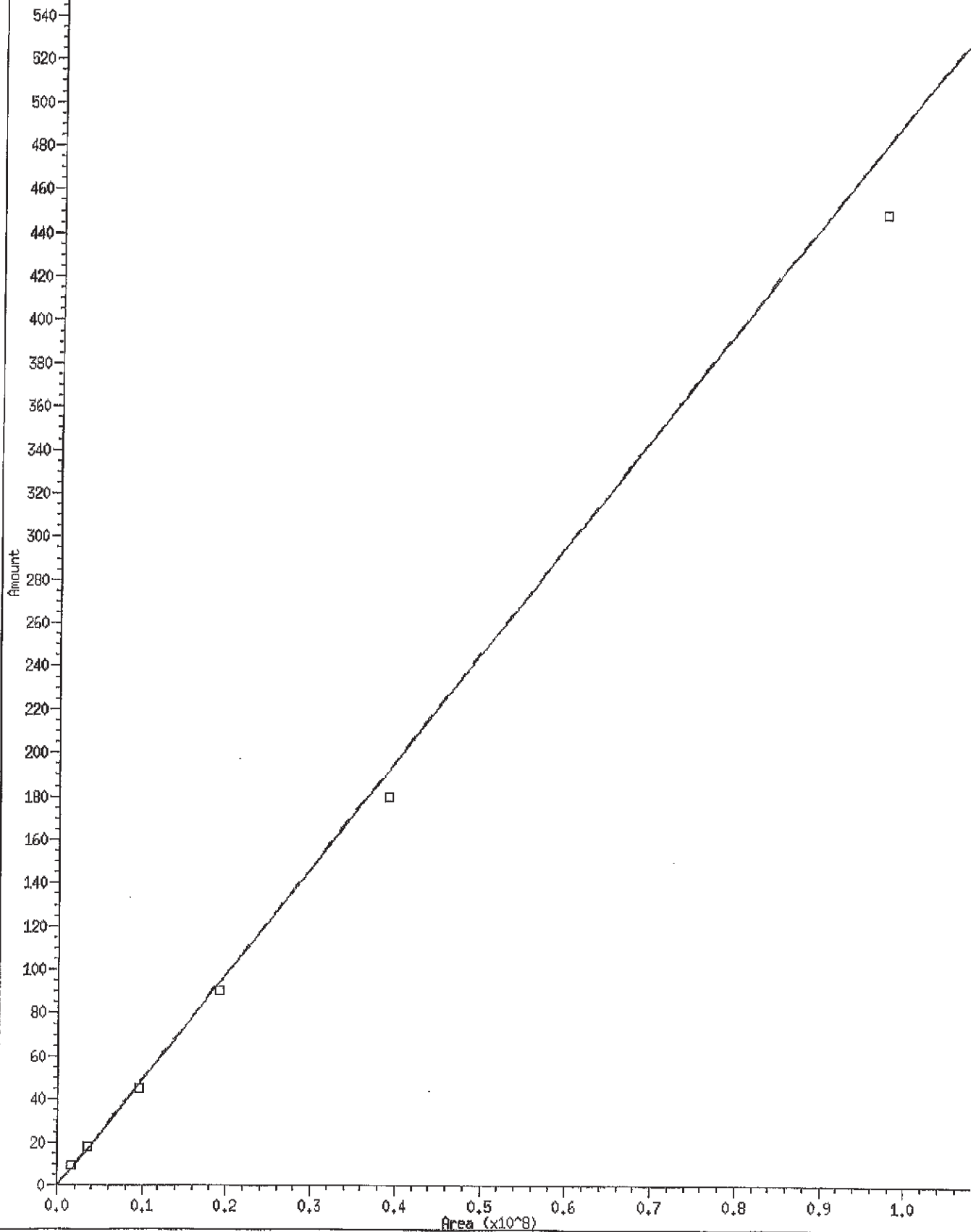
39 OR Diesel

Curve Type: Averaged By-Response
Amt = Rsp/189743
%RSD: 5,249



* 8 o-terph

Curve Type: Averaged By-Response
Amt = Resp/203634.1
%RSD: 9.902



ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220120.b\FID4TPH.m
Batch File: \\target\share\chem2\fid4a.i\20220120.b
Inst ID: fid4a.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08
FILENAME:	422A2003	422A2004	422A2005	422A2006	422A2007	422A2008	422A2009	422A2010
INJ. DATE:	20-JAN-2022	20-JAN-2022	20-JAN-2022	20-JAN-2022	20-JAN-2022	20-JAN-2022	20-JAN-2022	20-JAN-2022
INJ. TIME:	11:11	11:31	11:51	12:11	12:30	12:50	13:10	13:30

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	1.395	1.393	1.389	1.400	1.389	1.389	1.389	1.394	1.395	1.295-1.495	1.392	0.004
38 NewCpnd_31	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
35 Mineral Oil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.015	0.965-1.065	+++++	+++++
41 Mineral Spirits	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
2 C8	1.543	1.540	1.535	1.552	1.536	1.536	1.536	1.542	1.543	1.443-1.643	1.540	0.006
3 C10	2.787	2.785	2.783	2.783	2.783	2.783	2.784	2.786	2.787	2.737-2.837	2.784	0.002
4 C12	3.848	3.848	3.844	3.845	3.844	3.845	3.847	3.851	3.848	3.798-3.898	3.847	0.003
5 C14	4.657	4.657	4.653	4.654	4.654	4.655	4.658	4.664	4.657	4.607-4.707	4.657	0.003
6 C16	5.345	5.347	5.340	5.341	5.342	5.344	5.347	5.355	5.345	5.295-5.395	5.345	0.005
7 C18	5.962	5.956	5.954	5.956	5.958	5.960	5.965	5.975	5.962	5.912-6.012	5.961	0.007
8 o-terph	6.155	6.154	6.133	6.137	6.146	6.154	6.165	6.191	6.155	6.105-6.205	6.154	0.018
9 C20	6.548	6.545	6.543	6.542	6.543	6.543	6.545	6.551	6.548	6.498-6.598	6.545	0.003
10 C22	7.130	7.128	7.123	7.123	7.123	7.123	7.124	7.127	7.130	7.080-7.180	7.125	0.003
11 C24	7.697	7.695	7.695	7.694	7.691	7.690	7.690	7.691	7.697	7.647-7.747	7.693	0.003
12 C25	7.974	7.976	7.972	7.970	7.968	7.968	7.967	7.966	7.974	7.924-8.024	7.970	0.004
13 C26	8.244	8.243	8.242	8.244	8.240	8.238	8.237	8.236	8.244	8.194-8.294	8.241	0.003
14 C28	8.763	8.757	8.764	8.765	8.765	8.759	8.767	8.756	8.763	8.713-8.813	8.762	0.004

Reviewer 1 _____
Reviewer 2 _____

Date: _____
Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

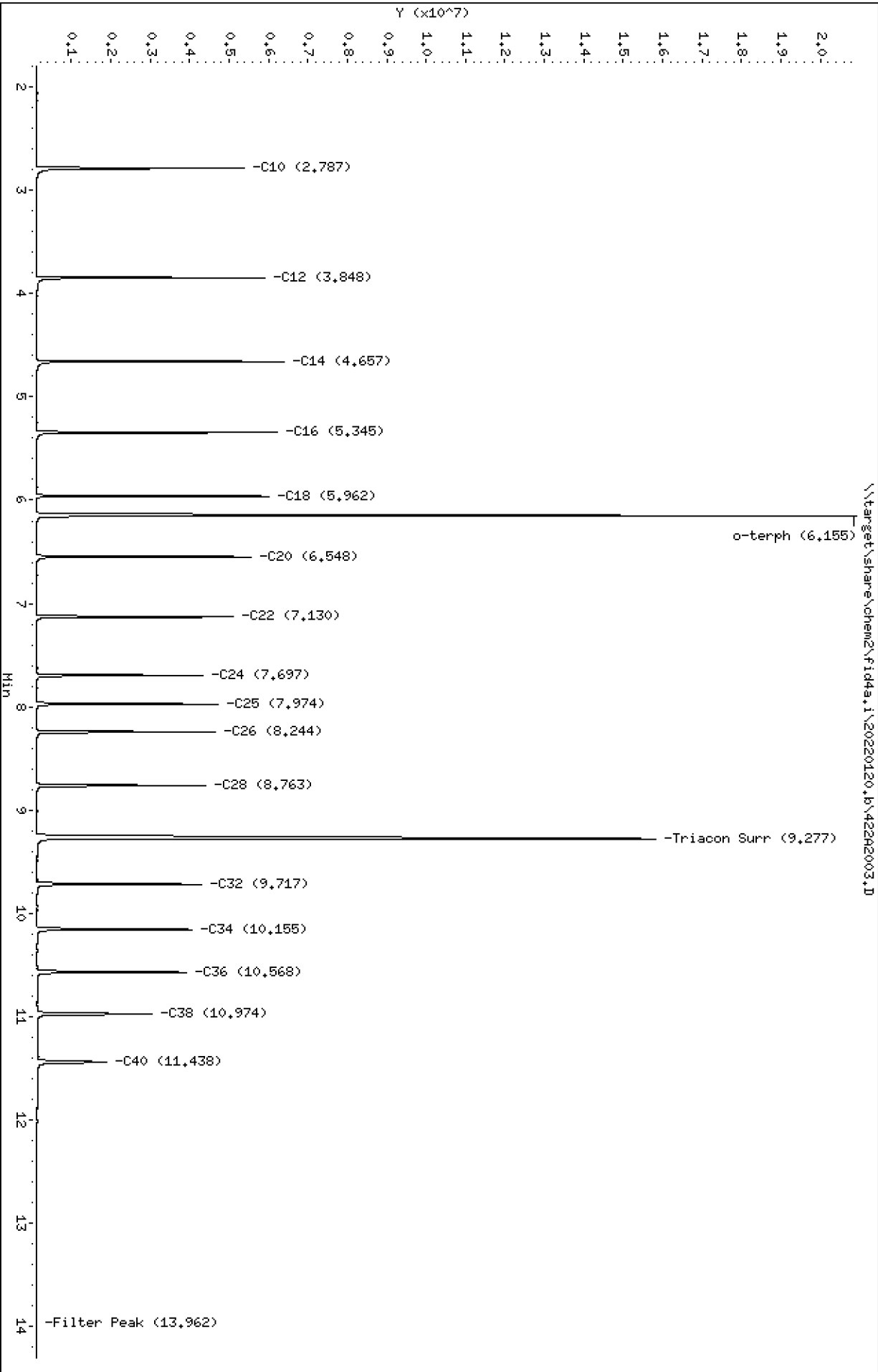
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Batch File: \\target\share\chem2\fid4a.i\20220120.b
Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
\$ 15 Triacon Surr	9.277	9.273	9.273	9.280	9.275	9.286	9.266	9.273	9.277	9.227-9.327	9.276	0.006
16 C32	9.717	9.711	9.713	9.720	9.711	9.709	9.718	9.706	9.717	9.667-9.767	9.713	0.005
17 C34	10.155	10.156	10.147	10.153	10.158	10.154	10.156	10.161	10.155	10.105-10.205	10.155	0.004
18 Filter Peak	13.962	13.962	13.963	13.963	13.962	13.960	13.960	13.961	13.962	13.862-14.062	13.962	0.001
19 C36	10.568	10.567	10.572	10.567	10.567	10.573	10.563	10.567	10.568	10.518-10.618	10.568	0.003
20 C38	10.974	10.980	10.978	10.975	10.973	10.970	10.975	10.978	10.974	10.924-11.024	10.975	0.003
21 C40	11.438	11.438	11.441	11.440	11.441	11.434	11.439	11.440	11.438	11.388-11.488	11.439	0.002
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.899	0.849-0.949	+++++	+++++
37 ACreosote	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 Jet A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.024	0.974-1.074	+++++	+++++
30 NW Moll	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.885	0.835-0.935	+++++	+++++
31 NW AK102	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.803	0.753-0.853	+++++	+++++
32 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.812	0.762-0.862	+++++	+++++
33 AK103	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.344	1.294-1.394	+++++	+++++
36 ABunker C	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.985	0.935-1.035	+++++	+++++
39 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
40 NAS Diesel	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++

Data File: \\target\share\chem2\fid4a,1\20220120,6\42282003.D
Date: 20-JAN-2022 11:11
Client ID:
Sample Info: SKR0208-IBL1

Column phase: RTX-1

Instrument: fid4a,1
Operator: WLB
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2003.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-IBL1
Client ID:
Injection: 20-JAN-2022 11:11
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

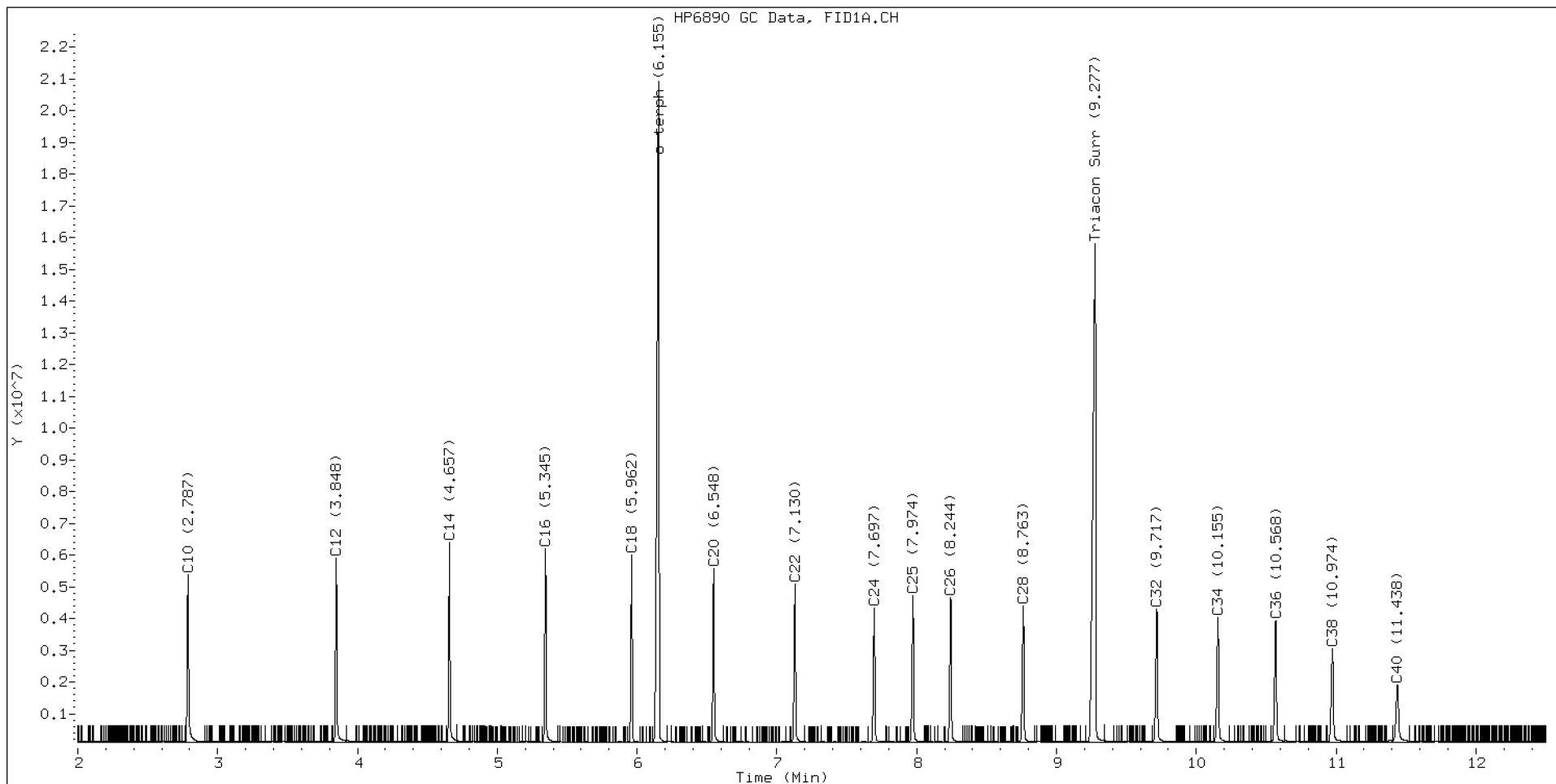
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.543	0.000	5560015	3947616	WATPHD	(C12-C24)	23617052	148.9
C10	2.787	0.000	5257595	4154719	WATPHM	(C24-C38)	27587850	208.1
C12	3.848	0.000	5795256	4012752	AK102	(C10-C25)	32327943	171.0
C14	4.657	0.000	6275090	3977443	AK103	(C25-C36)	23810222	240.7
C16	5.345	0.000	6103254	3896081	OR.DIES	(C10-C28)	43679867	230.2
C18	5.962	0.000	5903807	3840006				
C20	6.548	0.000	5462588	3811770				
C22	7.130	0.000	4979358	3790620				
C24	7.697	0.000	4232069	3304139				
C25	7.974	0.000	4626242	3678752				
C26	8.244	0.000	4539215	3752840				
C28	8.763	0.000	4290214	3737829				
C32	9.717	0.000	4178760	3963601				
C34	10.155	0.000	3931080	3725805				
Filter Peak	13.962	0.000	15777	8644				
C36	10.568	0.000	3821518	3732386				
C38	10.974	0.000	2949989	3352397				
C40	11.438	0.000	1790104	2604261				
o-terph	6.155	0.000	20813166	20730774				
Triacon Surr	9.277	0.000	15699693	21934844	NAS DIES	(C10-C24)	32260091	171.0

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	20730774	101.8
Triacontane	21934844	125.9

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



Data File: \\target\share\chem2\fid4a,1\20220120,8\42282004.D

Date: 20-JAN-2022 11:31

Client ID:

Sample Info: SKR0208-IBL2

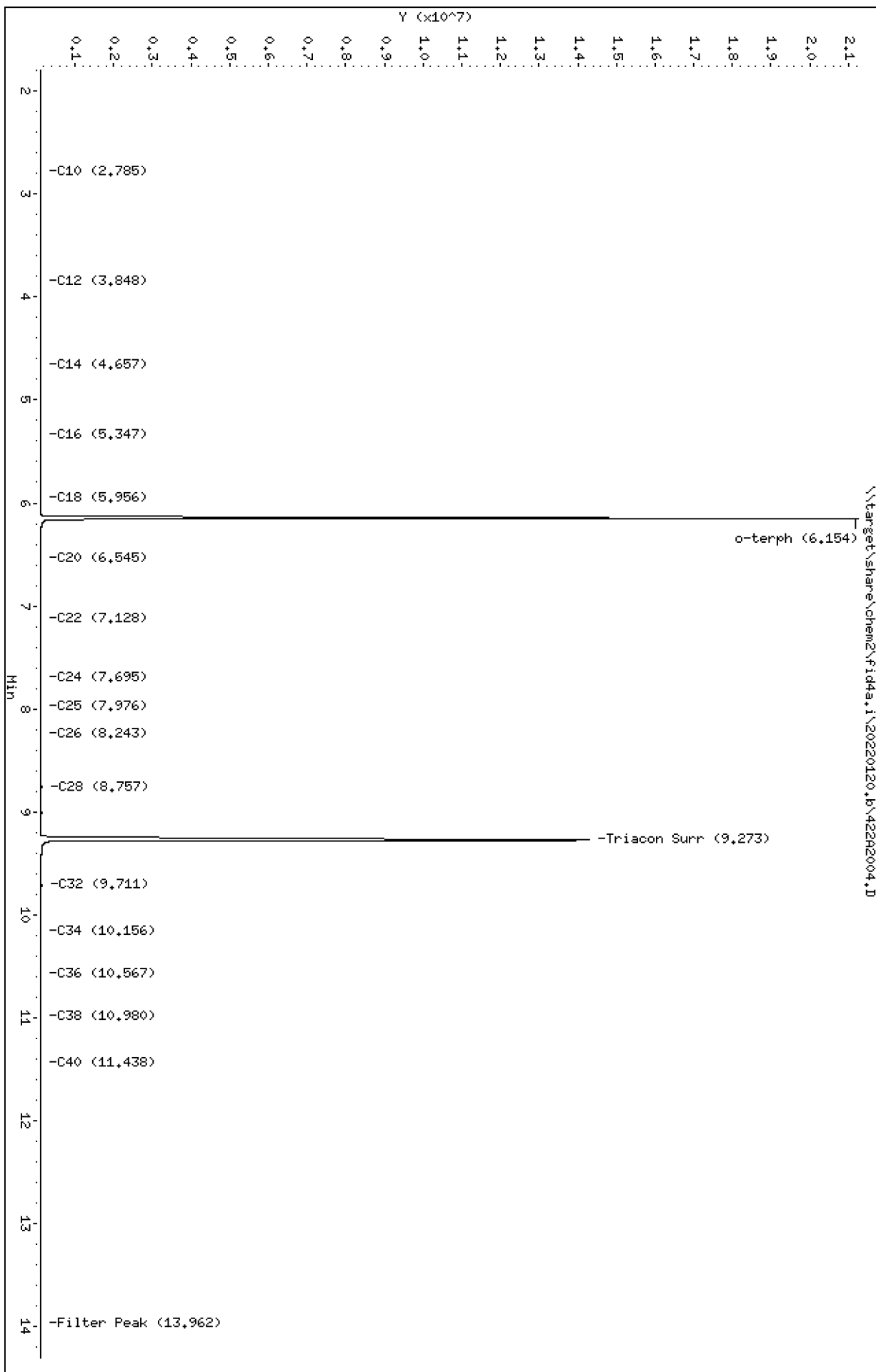
Column phase: RTX-1

Instrument: fid4a,1

Operator: WLB

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2004.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-IBL2
Client ID:
Injection: 20-JAN-2022 11:31
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

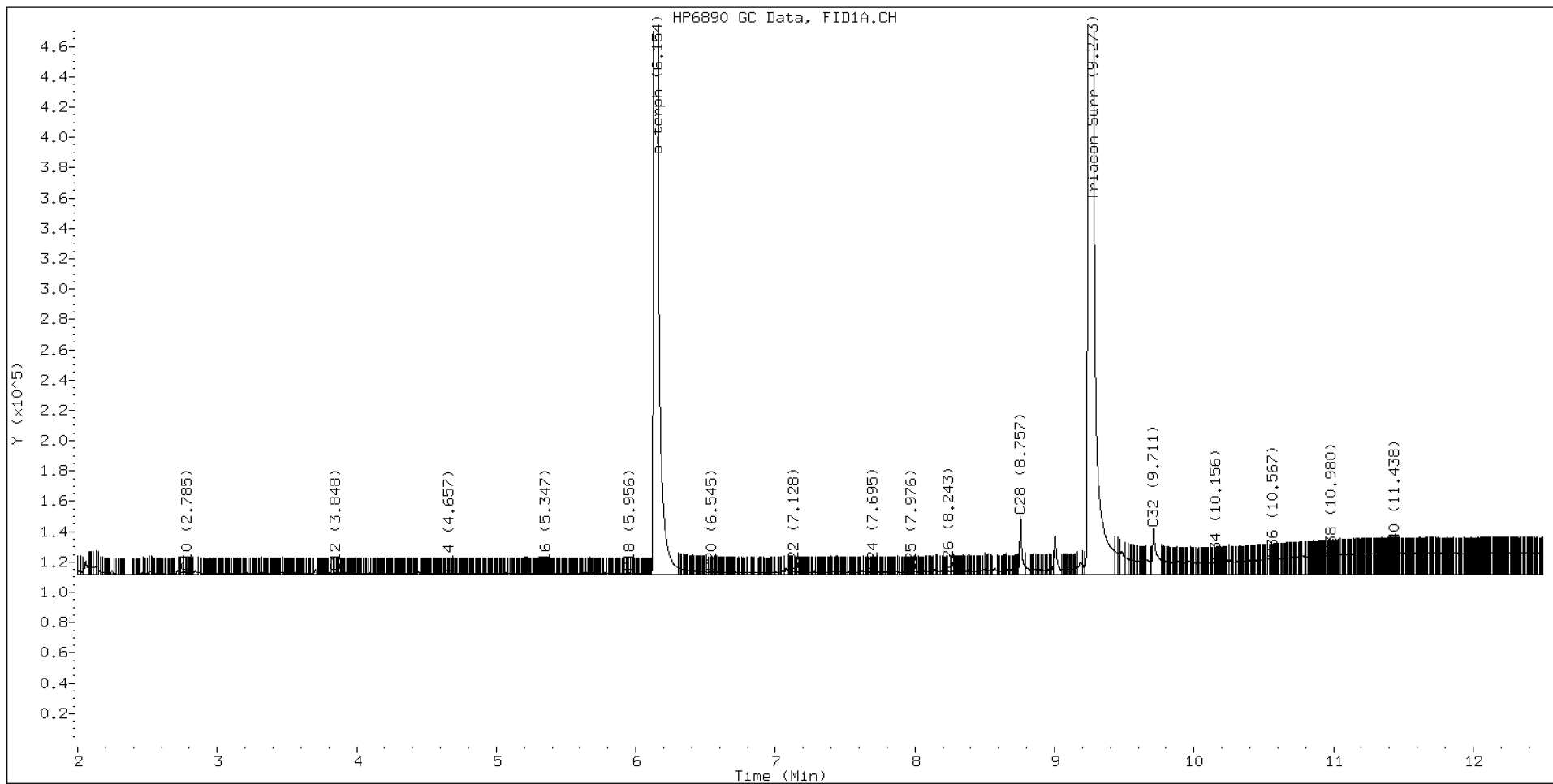
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.540	-0.003	15479	14810	WATPHD	(C12-C24)	298978	1.9
C10	2.785	-0.003	1495	786	WATPHM	(C24-C38)	1251776	9.4
C12	3.848	-0.000	1344	663	AK102	(C10-C25)	392294	2.1
C14	4.657	-0.001	1157	339	AK103	(C25-C36)	955410	9.7
C16	5.347	0.002	1328	496	OR.DIES	(C10-C28)	565052	3.0
C18	5.956	-0.006	1363	1047				
C20	6.545	-0.003	1608	397				
C22	7.128	-0.002	2457	1762				
C24	7.695	-0.002	2125	1126				
C25	7.976	0.002	1991	477				
C26	8.243	-0.001	2719	3771				
C28	8.757	-0.007	38550	47130				
C32	9.711	-0.007	30192	67900				
C34	10.156	0.001	8378	4977				
Filter Peak	13.962	-0.001	7511	4039				
C36	10.567	-0.001	10258	2046				
C38	10.980	0.006	12853	4480				
C40	11.438	-0.000	14608	4362				
o-terph	6.154	-0.001	21141491	20862500				
Triacon Surr	9.273	-0.004	14181219	18420470	NAS DIES	(C10-C24)	374770	2.0

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	20862500	102.5
Triacontane	18420470	105.7

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



Data File: \\target\share\chem2\fid4a,1\20220120,6\42282005.D

Date: 20-JAN-2022 11:51

Client ID:

Sample Info: SKR0208-CAL1

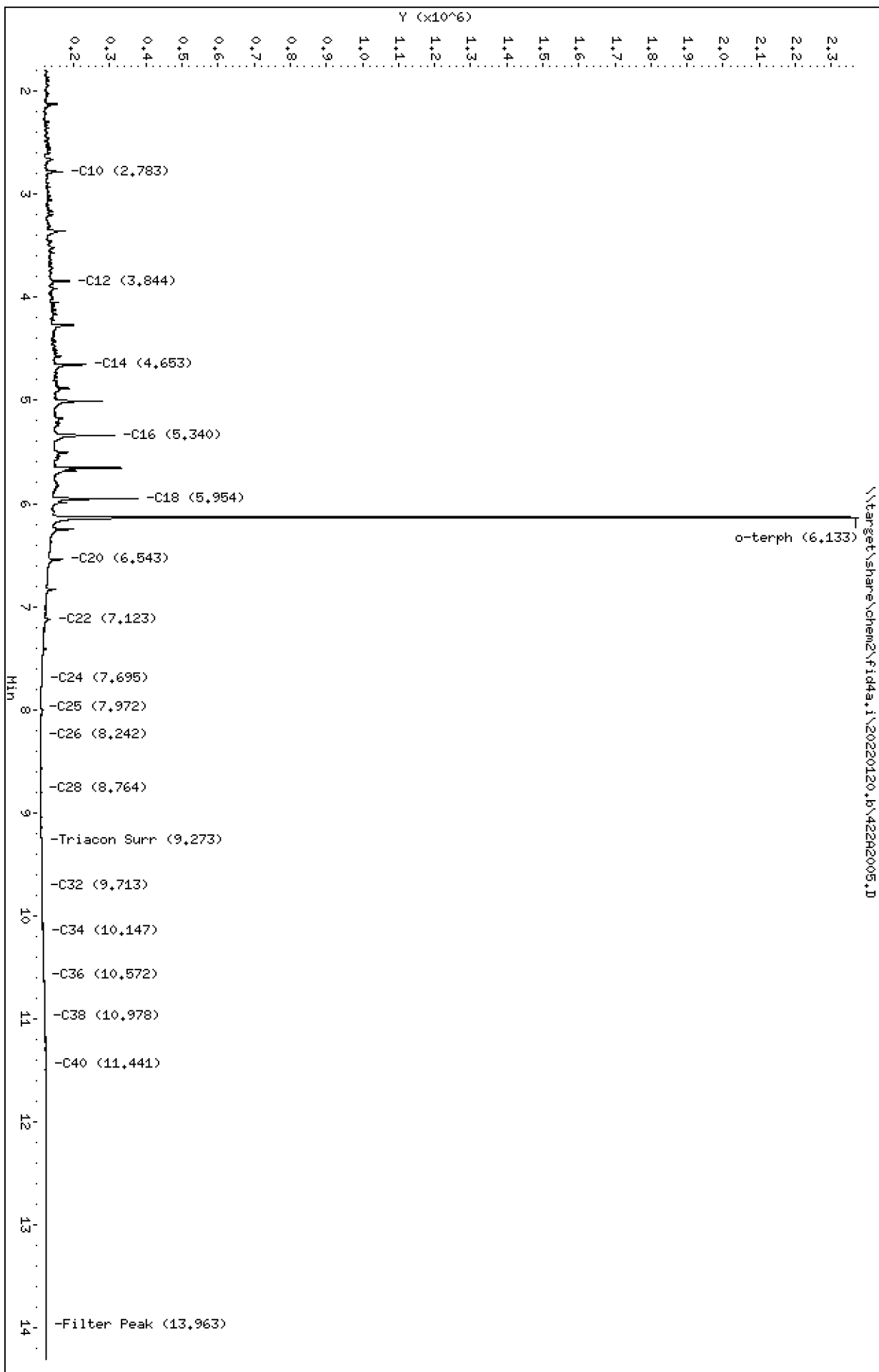
Column phase: RTX-1

Instrument: fid4a,1

Operator: WLB

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2005.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-CAL1
Client ID:
Injection: 20-JAN-2022 11:51
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

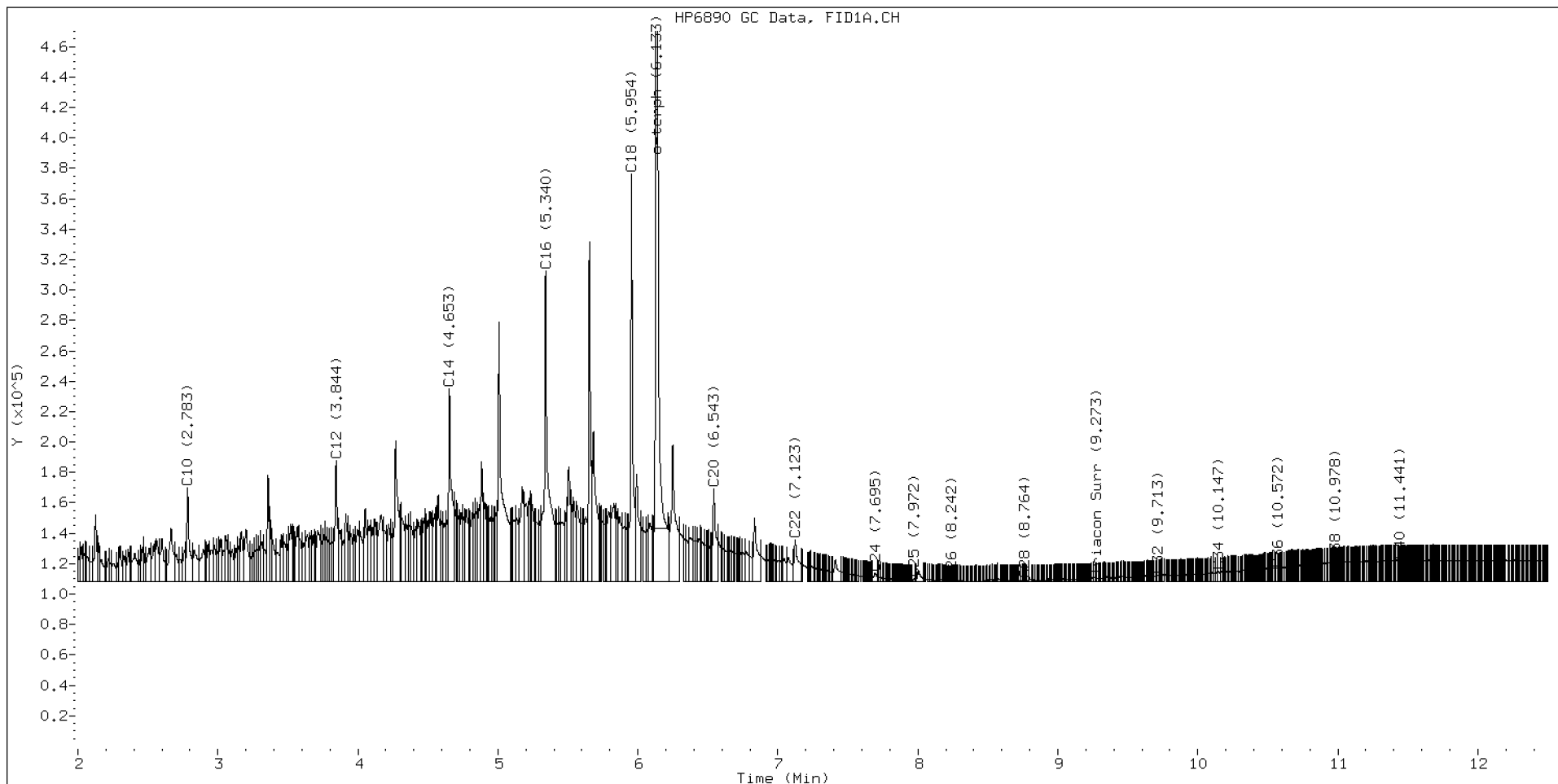
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.535	-0.008	27708	30045	WATPHD	(C12-C24)	7444121	46.9
C10	2.783	-0.004	61539	83608	WATPHM	(C24-C38)	767210	5.8
C12	3.844	-0.004	79540	103209	AK102	(C10-C25)	9159711	48.4
C14	4.653	-0.004	126464	188042	AK103	(C25-C36)	482448	4.9
C16	5.340	-0.005	204117	392474	OR.DIES	(C10-C28)	9209141	48.5
C18	5.954	-0.007	268242	283820				
C20	6.543	-0.006	61351	95012				
C22	7.123	-0.007	27453	56580				
C24	7.695	-0.002	5379	8568				
C25	7.972	-0.002	1900	2385				
C26	8.242	-0.002	725	374				
C28	8.764	0.001	1235	294				
C32	9.713	-0.004	4459	4594				
C34	10.147	-0.008	7029	7616				
Filter Peak	13.963	0.000	14649	5098				
C36	10.572	0.003	8505	3791				
C38	10.978	0.003	12334	4290				
C40	11.441	0.003	13915	4805				
o-terph	6.133	-0.022	2231788	1499503				
Triacon Surr	9.273	-0.004	2529	1233	NAS DIES	(C10-C24)	9143618	48.5

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	1499503	7.4 M
Triacontane	1233	0.0

M Indicates the peak was manually integrated

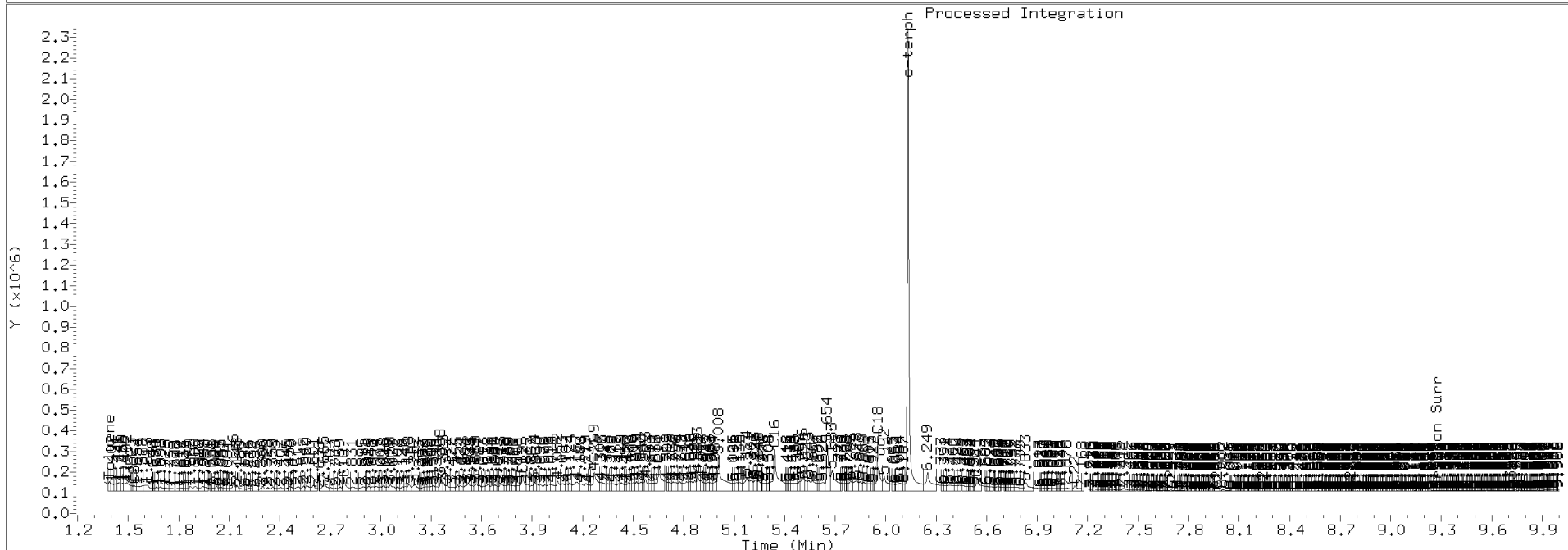
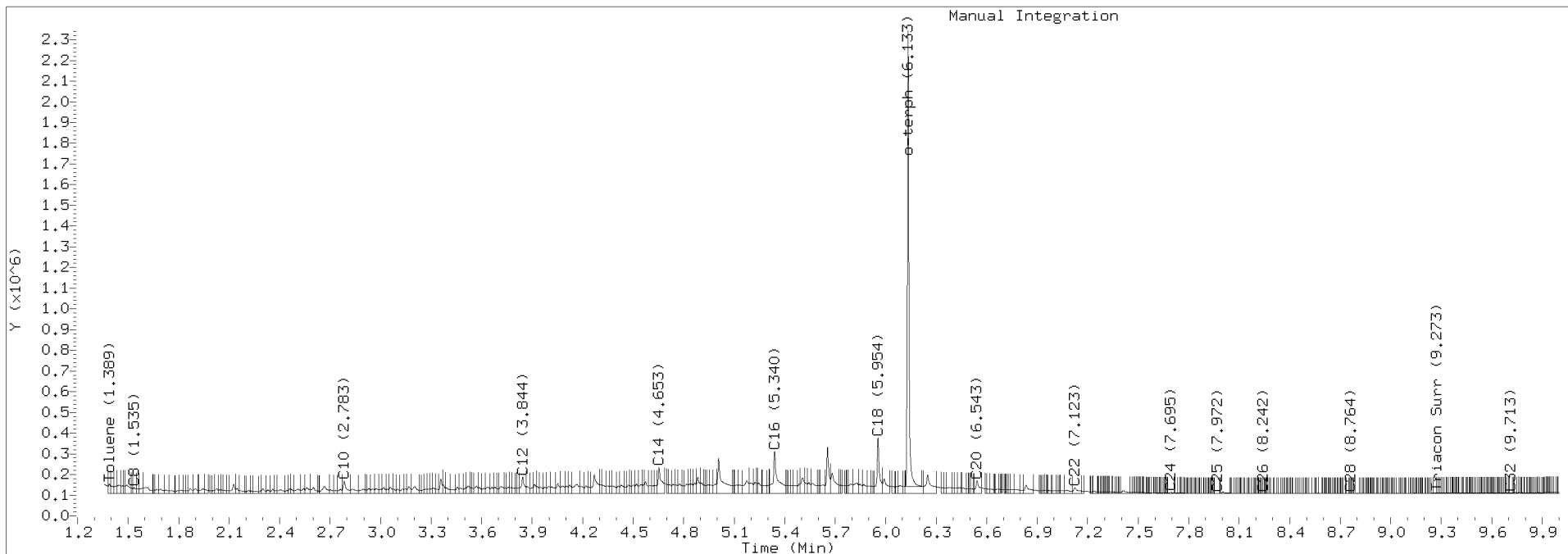
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220120.b/422A2005.D Injection: 20-JAN-2022 11:51

Lab ID:SKA0208-CAL1



Data File: \\target\share\chem2\fid4a,1\20220120,b\42282006.D

Date: 20-JAN-2022 12:11

Client ID:

Sample Info: SKR0208-CAL2

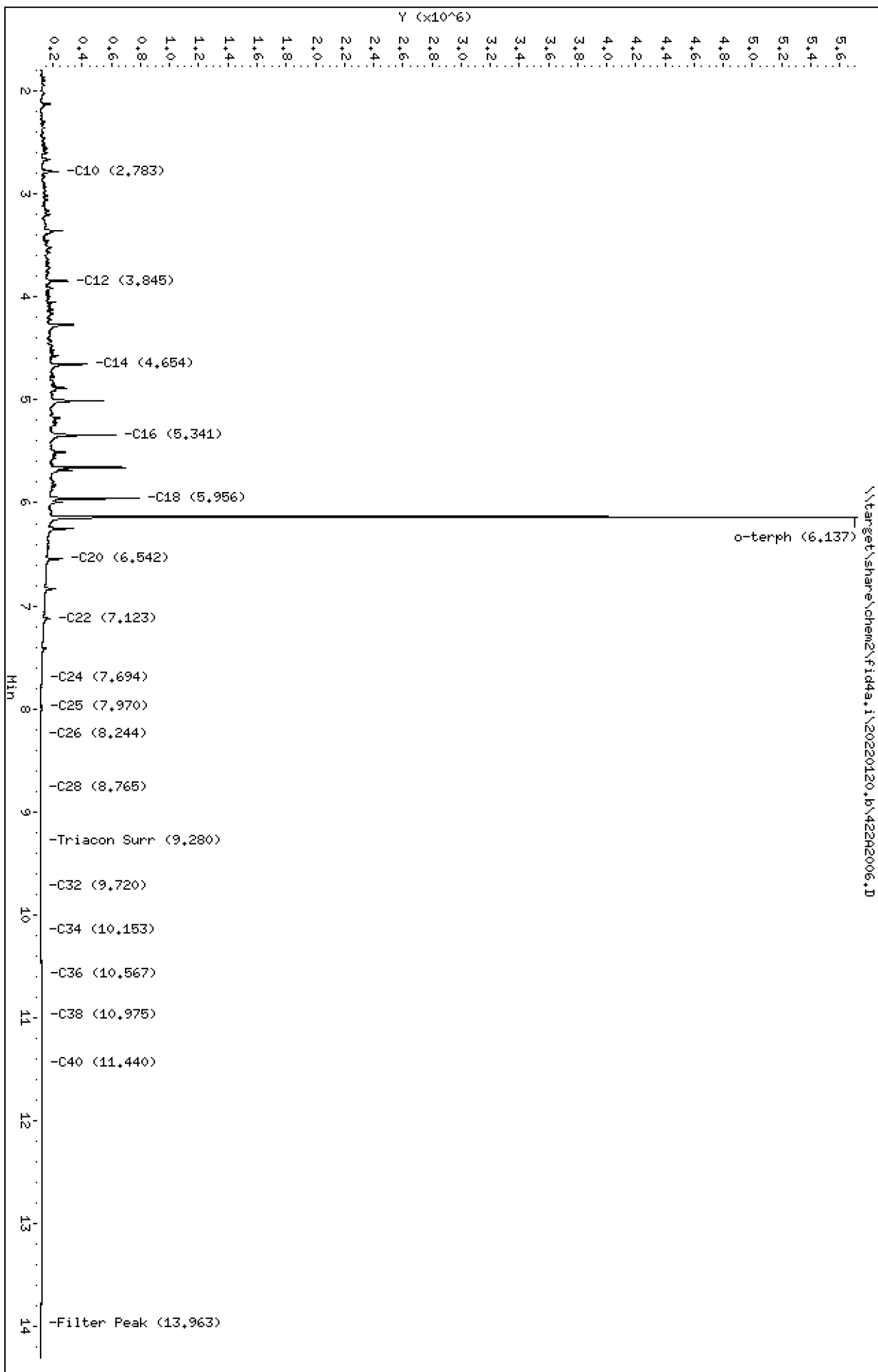
Column phase: RTX-1

Instrument: fid4a,1

Operator: WLB

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2006.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-CAL2
Client ID:
Injection: 20-JAN-2022 12:11
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

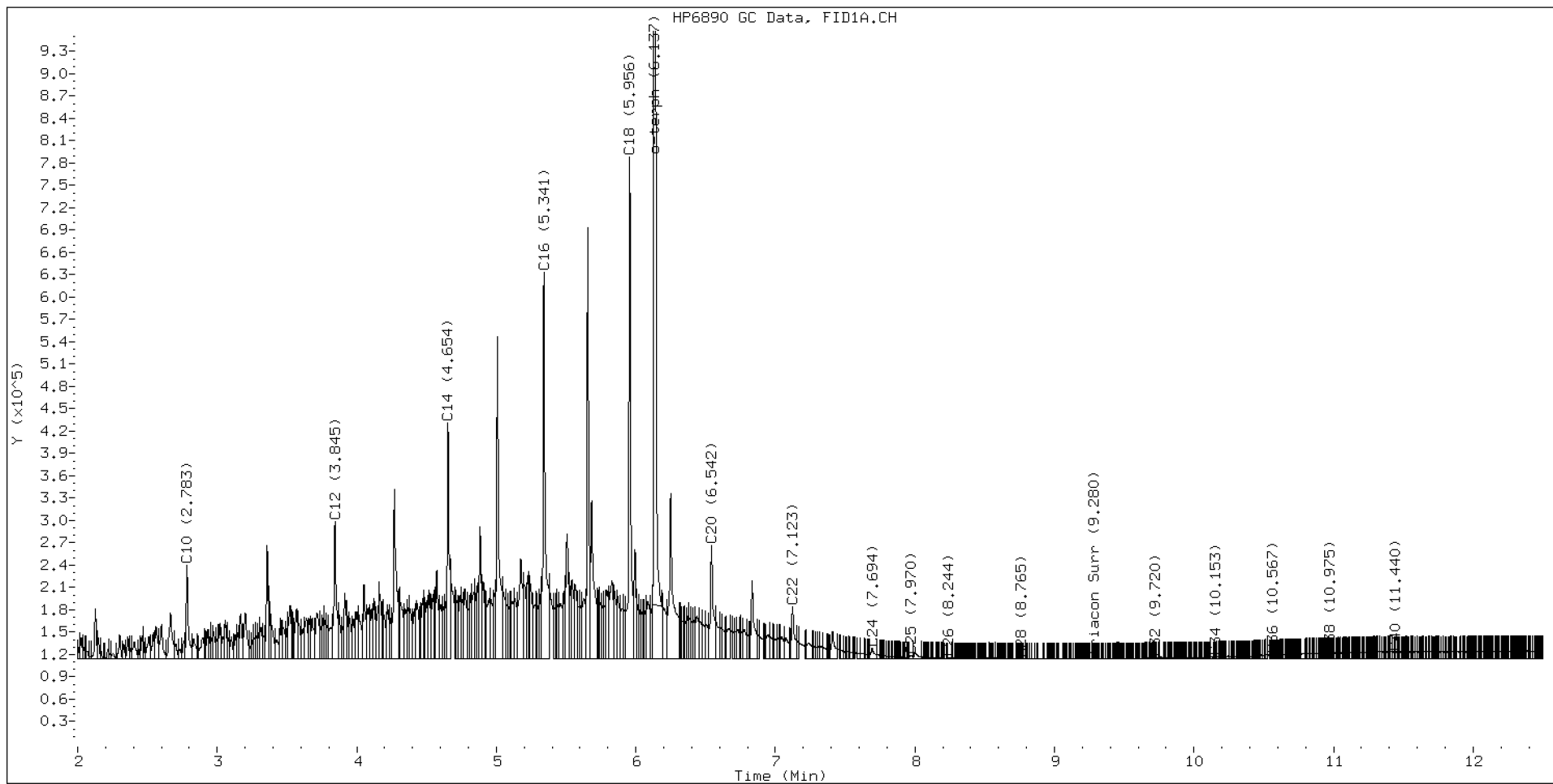
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.552	0.009	16555	16726	WATPHD	(C12-C24)	14707395	92.7
C10	2.783	-0.004	126688	134636	WATPHM	(C24-C38)	469166	3.5
C12	3.845	-0.004	184172	214747	AK102	(C10-C25)	17413082	92.1
C14	4.654	-0.004	317298	320236	AK103	(C25-C36)	269684	2.7
C16	5.341	-0.004	520196	598541	OR.DIES	(C10-C28)	17485049	92.2
C18	5.956	-0.005	674723	654694				
C20	6.542	-0.006	153245	209870				
C22	7.123	-0.007	69858	101420				
C24	7.694	-0.003	13882	26216				
C25	7.970	-0.004	4951	7165				
C26	8.244	-0.000	2511	3354				
C28	8.765	0.001	871	304				
C32	9.720	0.003	1890	752				
C34	10.153	-0.002	2745	1844				
Filter Peak	13.963	0.001	3721	2548				
C36	10.567	-0.001	5488	2082				
C38	10.975	0.001	7723	2304				
C40	11.440	0.002	9453	3292				
o-terph	6.137	-0.018	5533733	3490480				
Triacon Surr	9.280	0.002	571	159	NAS DIES	(C10-C24)	17379670	92.1

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	3490480	17.1 M
Triacontane	159	0.0

M Indicates the peak was manually integrated

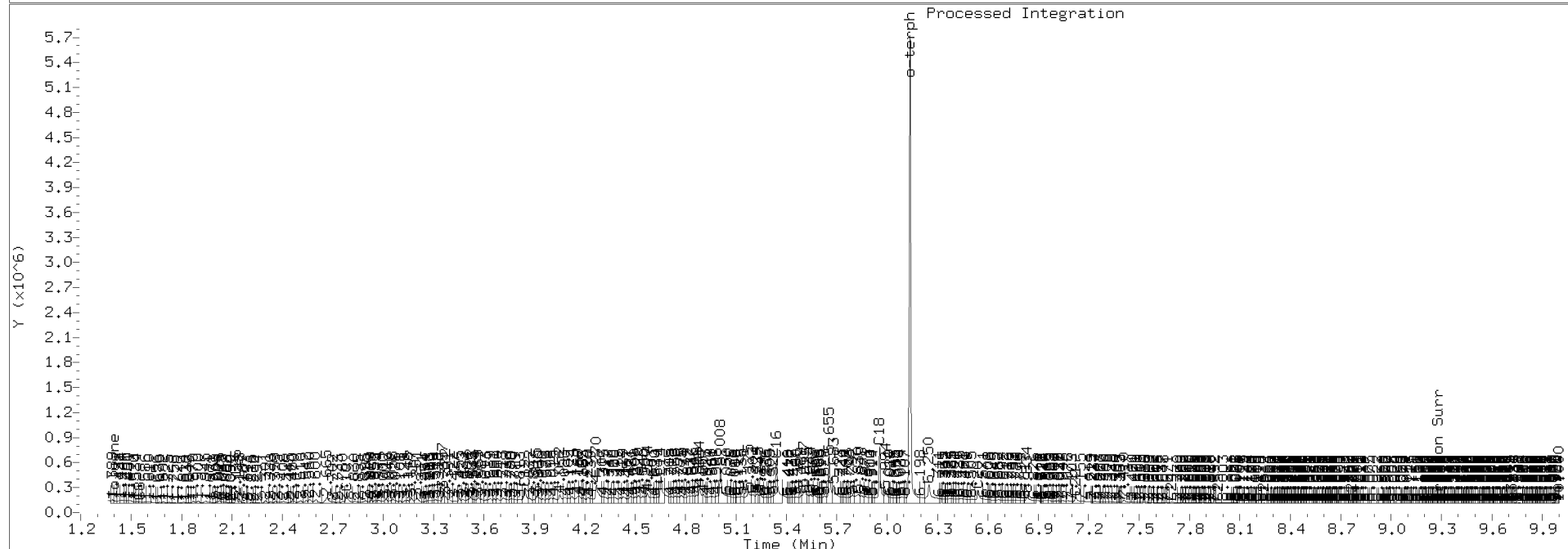
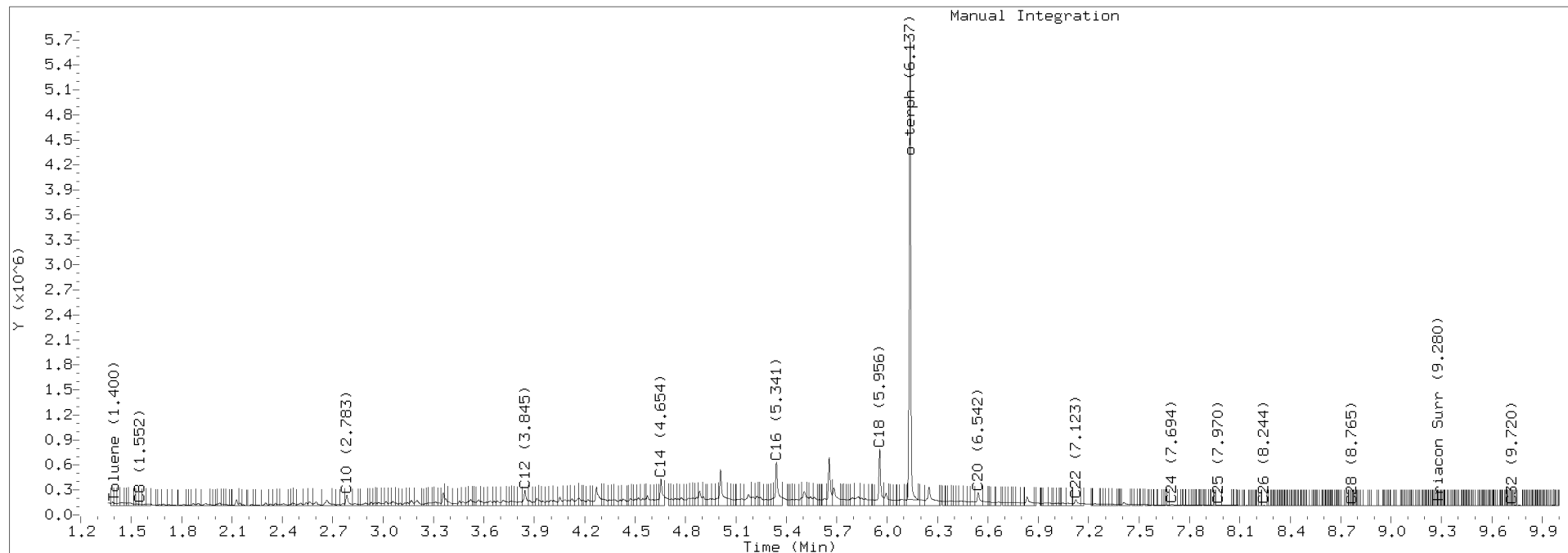
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220120.b/422A2006.D Injection: 20-JAN-2022 12:11

Lab ID:SKA0208-CAL2



Data File: \\target\share\chem2\fid4a,1\20220120,6\42282007.D

Date: 20-JAN-2022 12:30

Client ID:

Sample Info: SKR0208-CAL3

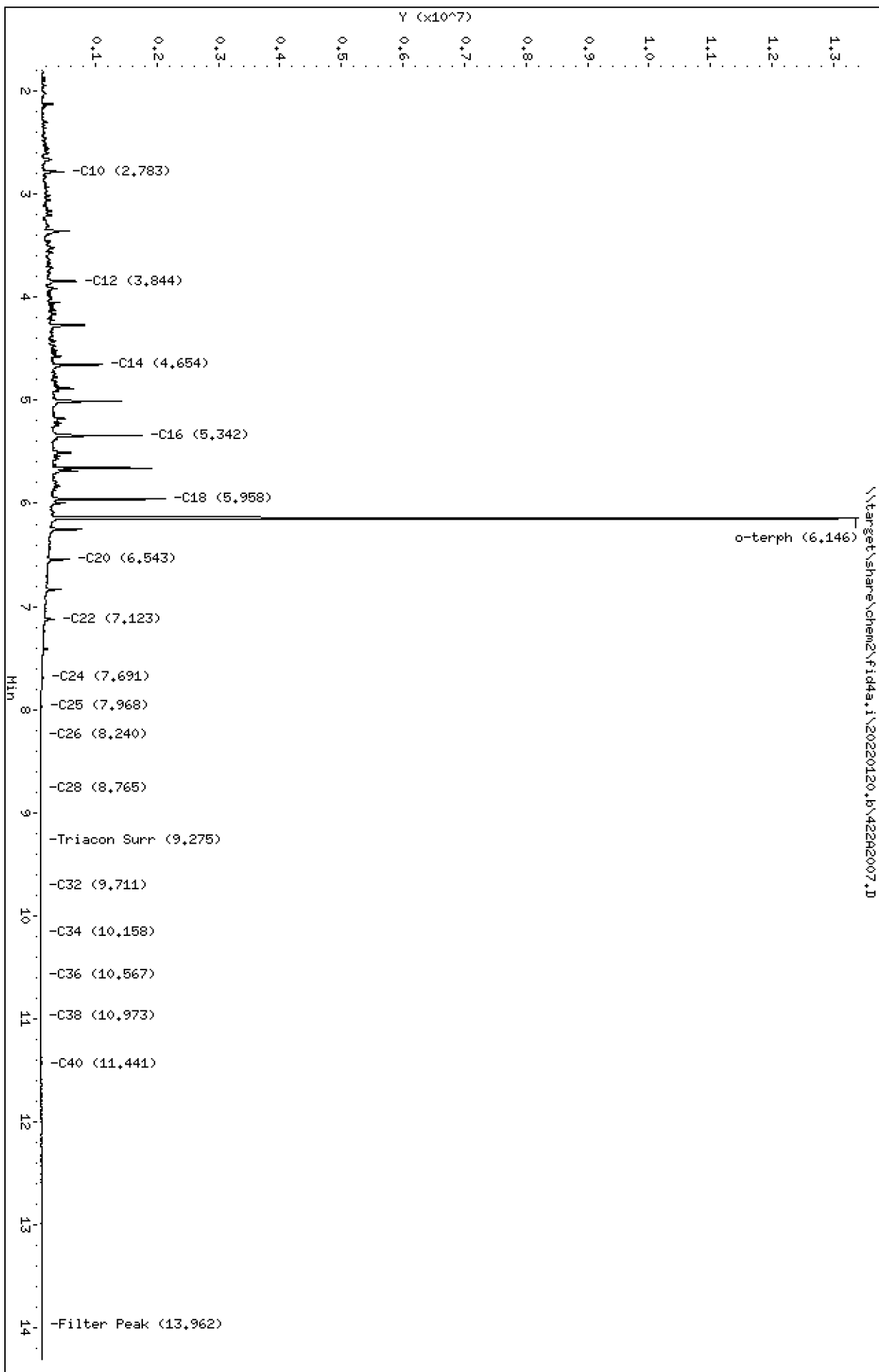
Column phase: RTX-1

Instrument: fid4a,1

Operator: WLB

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2007.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-CAL3
Client ID:
Injection: 20-JAN-2022 12:30
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

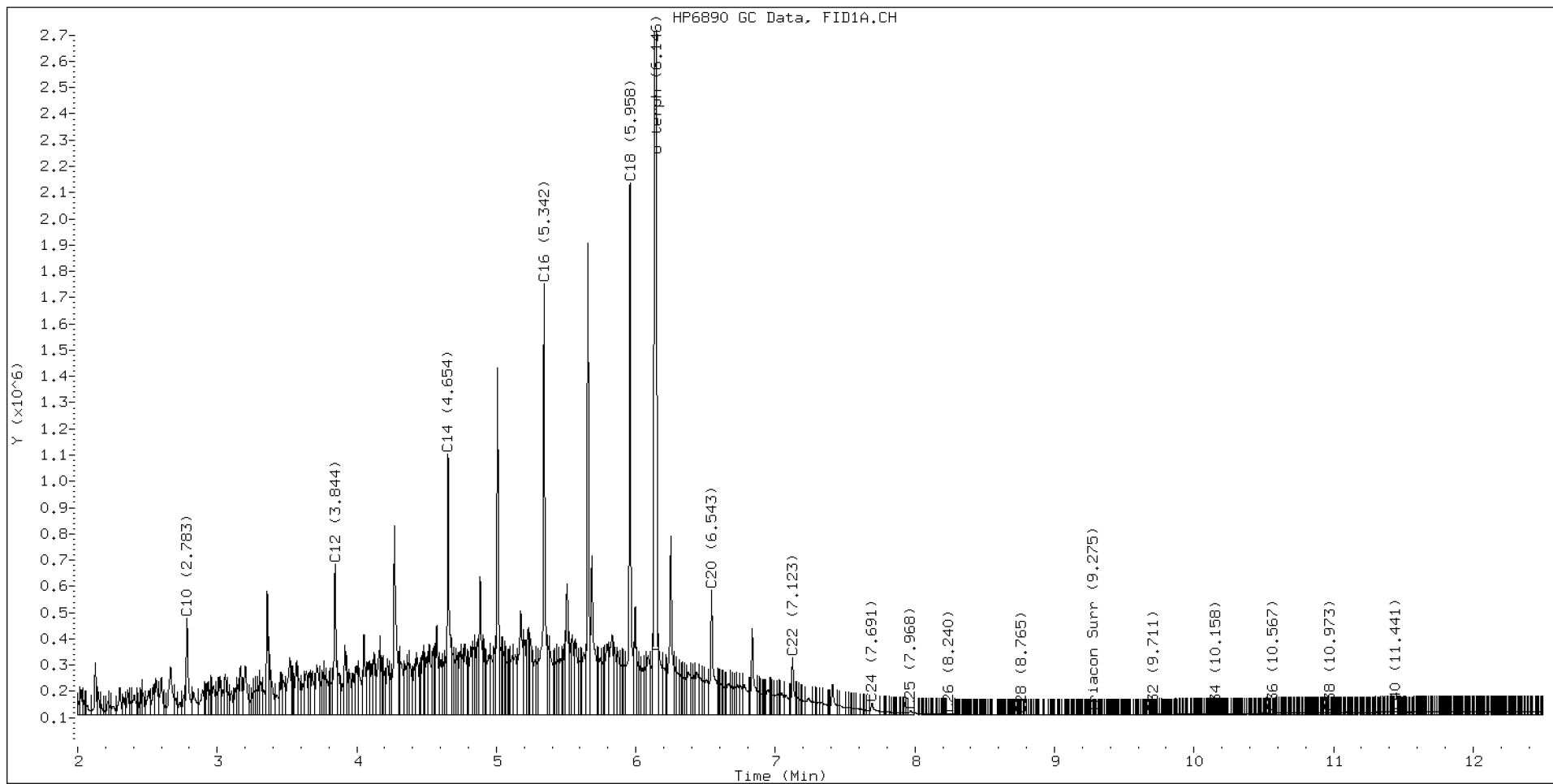
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.536	-0.007	51595	42492	WATPHD	(C12-C24)	42908766	270.5
C10	2.783	-0.004	369838	415697	WATPHM	(C24-C38)	683453	5.2
C12	3.844	-0.004	574678	650857	AK102	(C10-C25)	51100202	270.3
C14	4.654	-0.003	992557	1057075	AK103	(C25-C36)	381818	3.9
C16	5.342	-0.003	1641082	1885470	OR.DIES	(C10-C28)	51231288	270.0
C18	5.958	-0.003	2026462	1878870				
C20	6.543	-0.006	475588	745557				
C22	7.123	-0.007	218531	281405				
C24	7.691	-0.006	44690	100420				
C25	7.968	-0.006	16146	27786				
C26	8.240	-0.004	5708	10536				
C28	8.765	0.002	941	568				
C32	9.711	-0.006	2516	1668				
C34	10.158	0.003	3950	1769				
Filter Peak	13.962	-0.001	12364	12175				
C36	10.567	-0.001	6446	3827				
C38	10.973	-0.001	8914	4432				
C40	11.441	0.003	11408	14149				
o-terph	6.146	-0.009	13042333	9641147				
Triacon Surr	9.275	-0.002	679	442	NAS DIES	(C10-C24)	50995409	270.3

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	9641147	47.3 M
Triacontane	442	0.0

M Indicates the peak was manually integrated

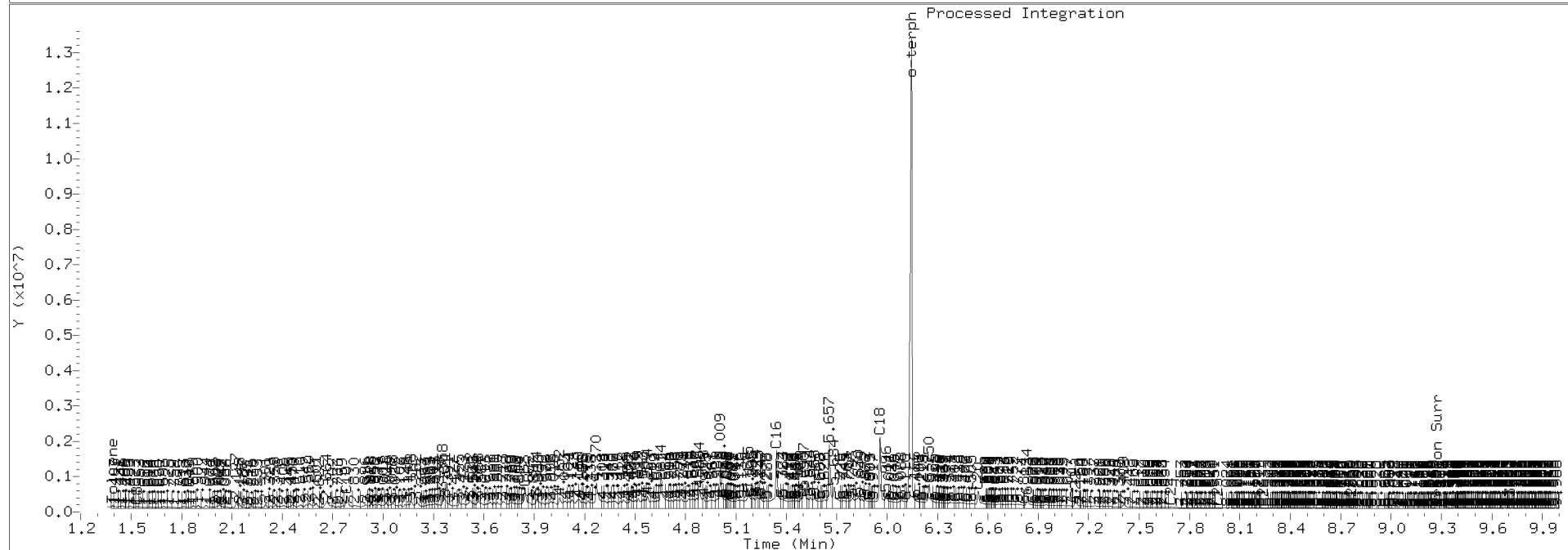
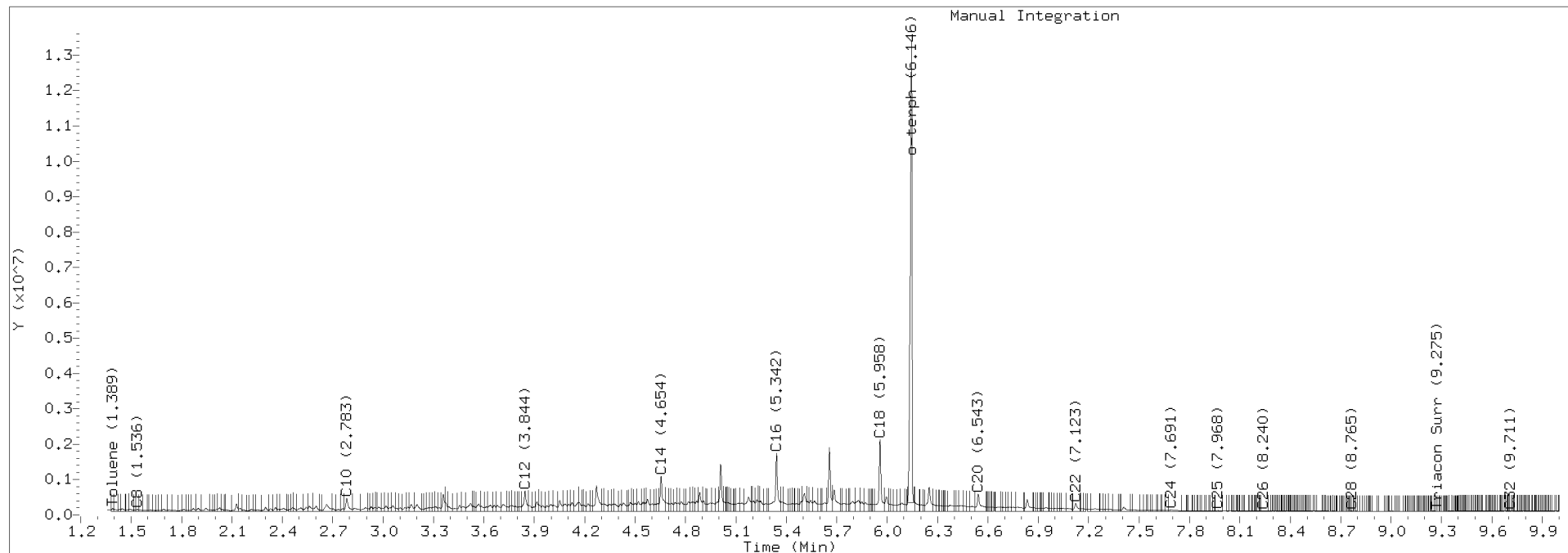
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220120.b/422A2007.D Injection: 20-JAN-2022 12:30

Lab ID:SKA0208-CAL3



Data File: \\target\share\chem2\fid4a,1\20220120,b\42282008.D

Date: 20-JAN-2022 12:50

Client ID:

Sample Info: SKR0208-CAL4

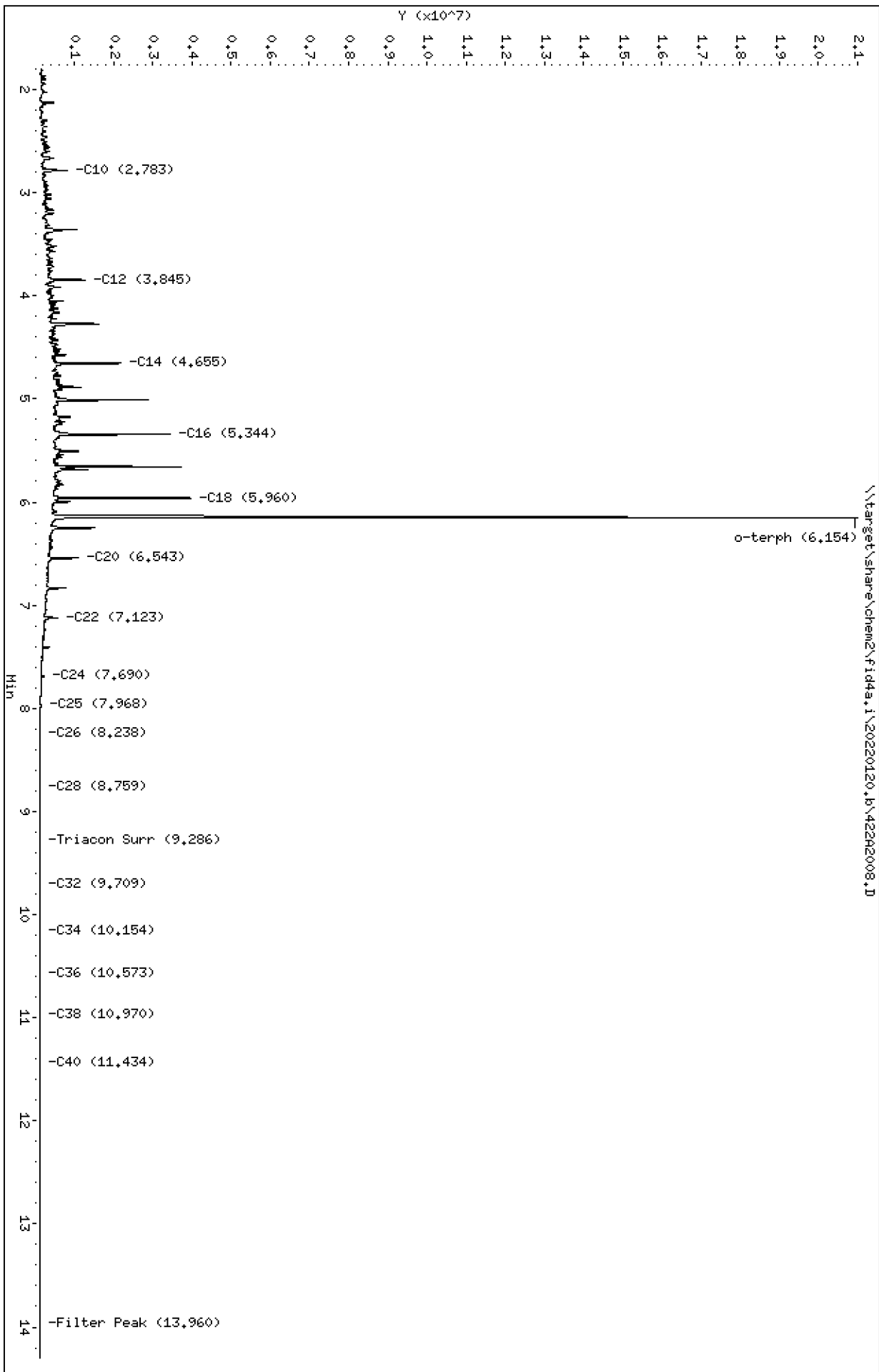
Column phase: RTX-1

Instrument: fid4a,1

Operator: WLB

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2008.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-CAL4
Client ID:
Injection: 20-JAN-2022 12:50
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

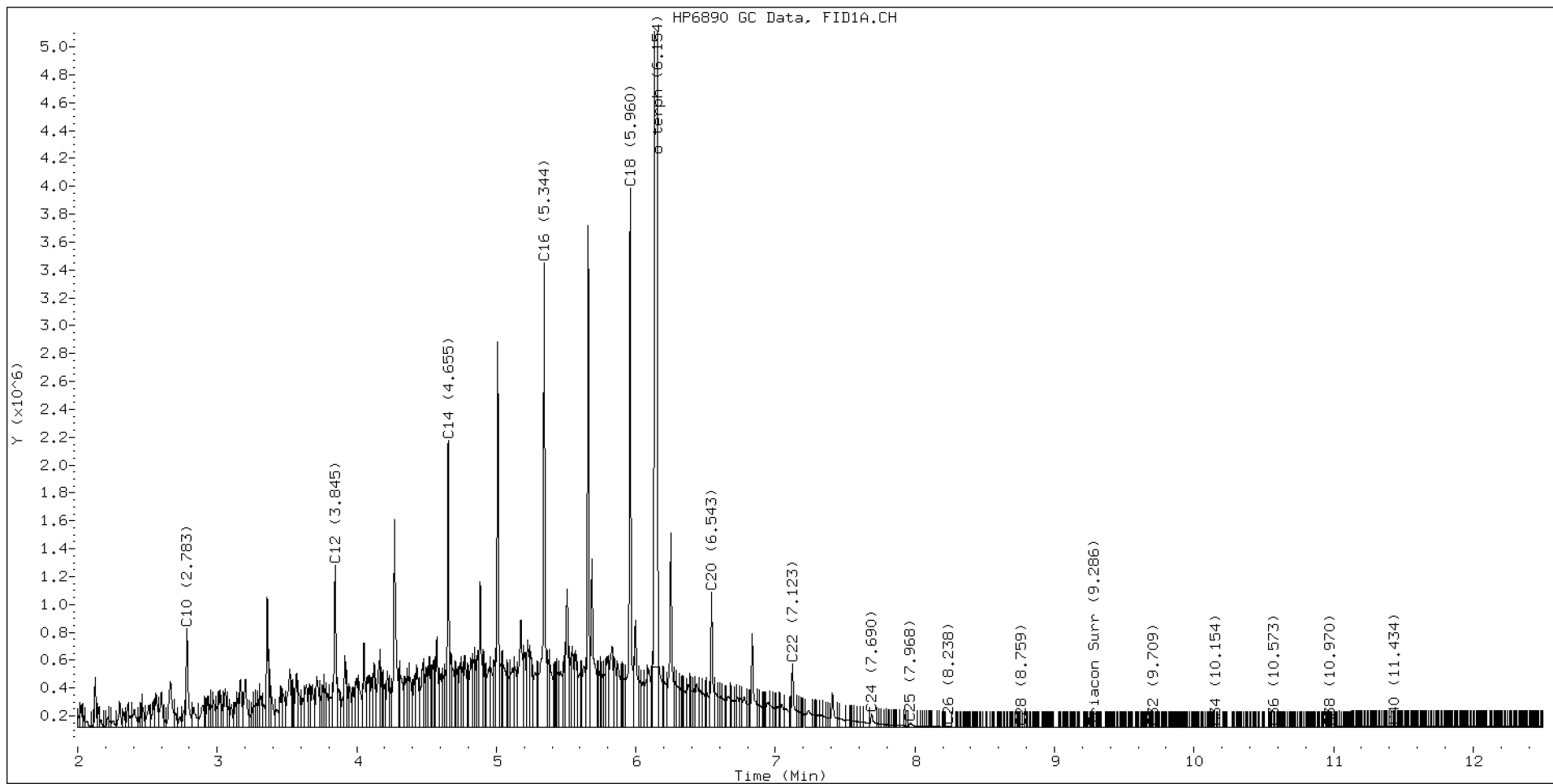
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.536	-0.007	75258	48808	WATPHD	(C12-C24)	80641505	508.3
C10	2.783	-0.005	709615	752568	WATPHM	(C24-C38)	806665	6.1
C12	3.845	-0.003	1162593	1251021	AK102	(C10-C25)	95443784	504.8
C14	4.655	-0.002	2057036	1616758	AK103	(C25-C36)	450247	4.6
C16	5.344	-0.001	3337611	3592251	OR.DIES	(C10-C28)	95745351	504.6
C18	5.960	-0.001	3871050	3592934				
C20	6.543	-0.005	976164	1130774				
C22	7.123	-0.007	454765	562620				
C24	7.690	-0.006	98054	161406				
C25	7.968	-0.006	34825	76825				
C26	8.238	-0.006	13218	23450				
C28	8.759	-0.004	2262	1768				
C32	9.709	-0.009	1511	1013				
C34	10.154	-0.001	1891	1092				
Filter Peak	13.960	-0.002	3303	1461				
C36	10.573	0.005	4311	2527				
C38	10.970	-0.004	6542	2594				
C40	11.434	-0.004	8637	4692				
o-terph	6.154	-0.001	20447054	19087067				
Triacon Surr	9.286	0.009	319	198	NAS DIES	(C10-C24)	95228381	504.7

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	19087067	93.7 M
Triacontane	198	0.0

M Indicates the peak was manually integrated

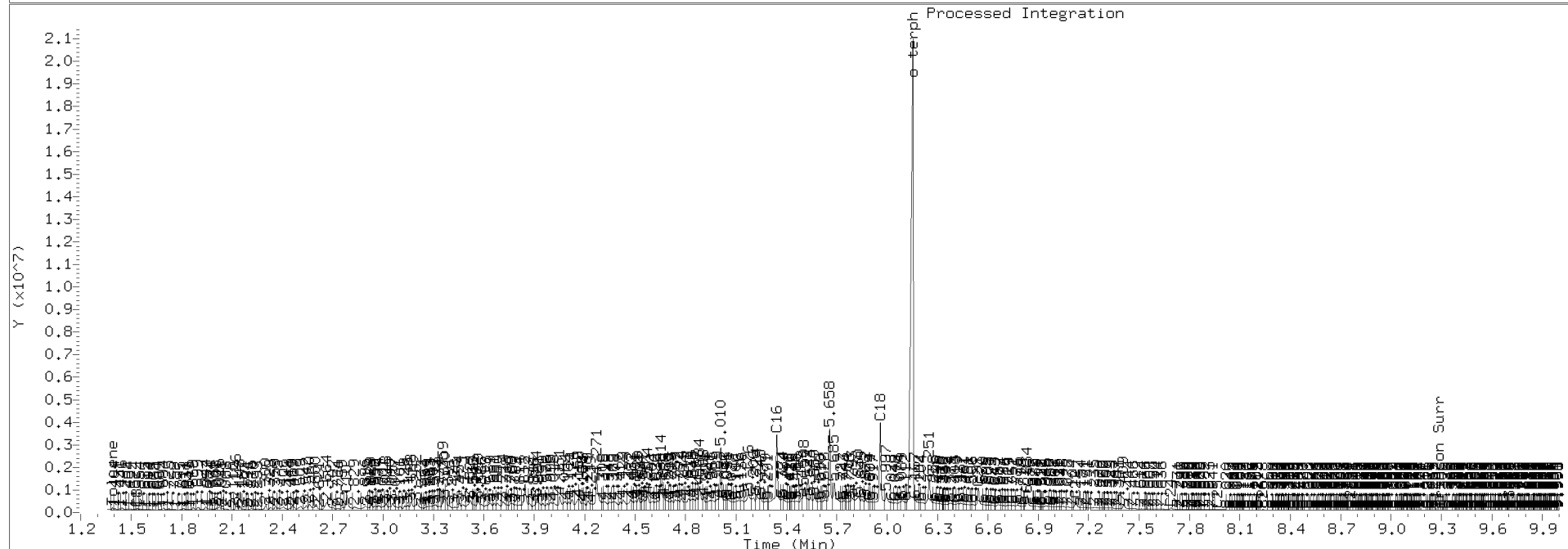
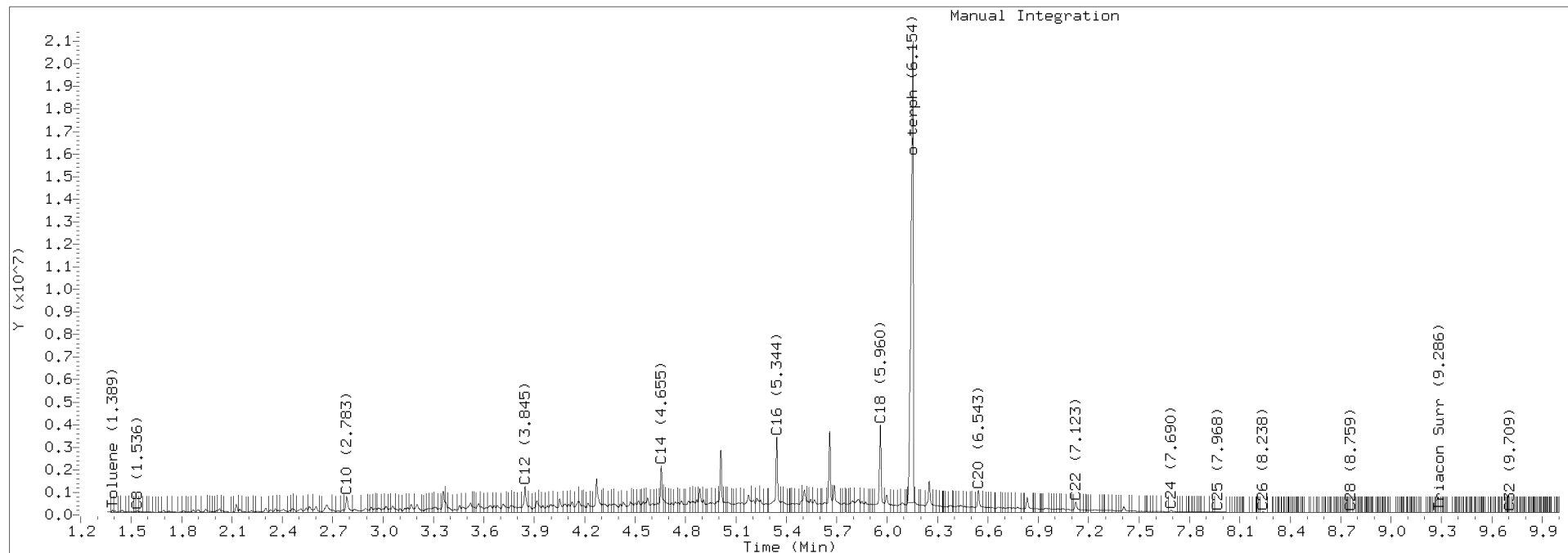
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220120.b/422A2008.D Injection: 20-JAN-2022 12:50

Lab ID:SKA0208-CAL4



Data File: \\target\share\chem2\fid4a,1\20220120,b\42282009.D

Date: 20-JAN-2022 13:10

Client ID:

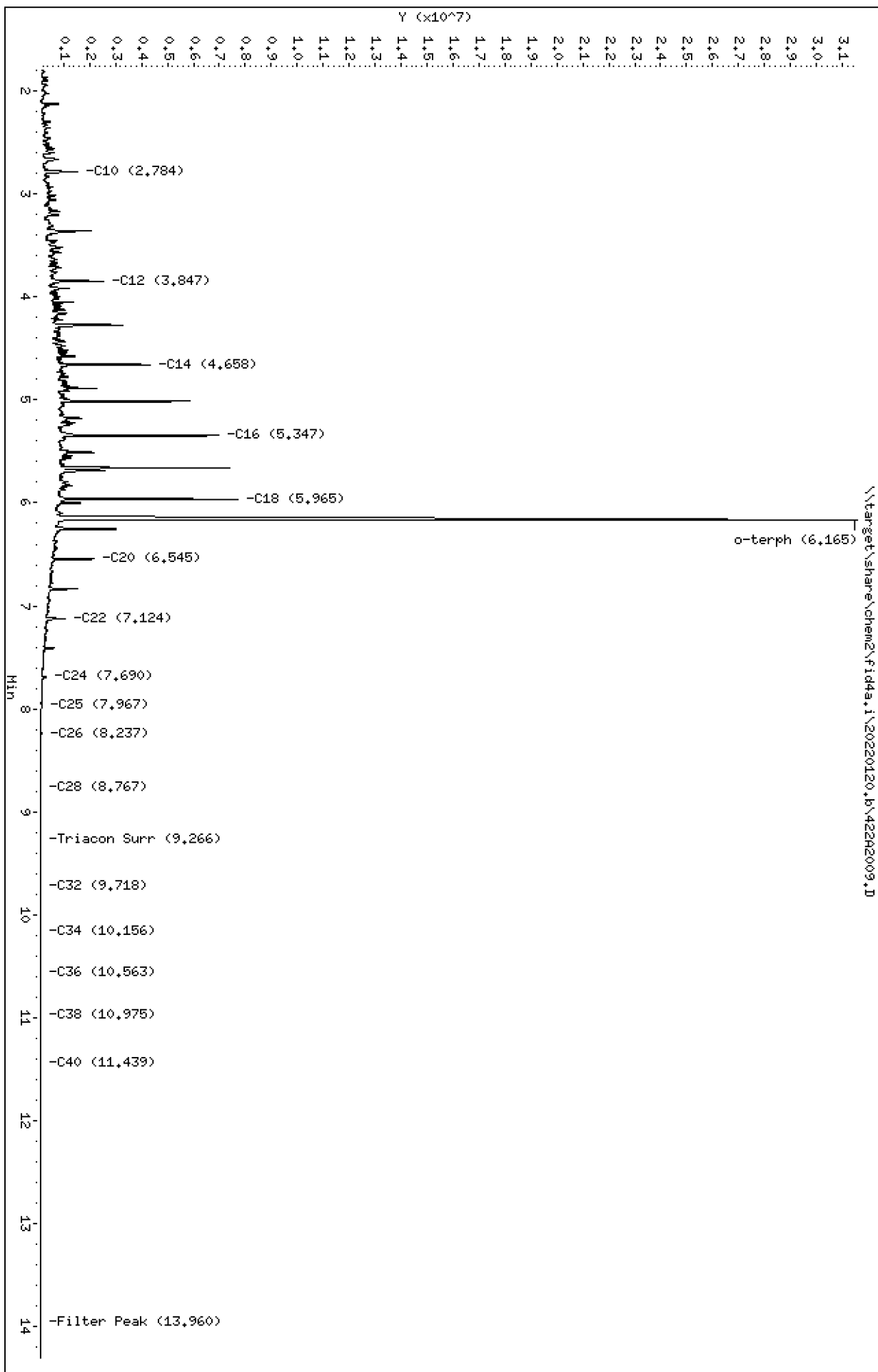
Sample Info: SKR0208-CAL5

Column phase: RTX-1

Instrument: fid4a,1

Operator: WLB

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2009.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-CAL5
Client ID:
Injection: 20-JAN-2022 13:10
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

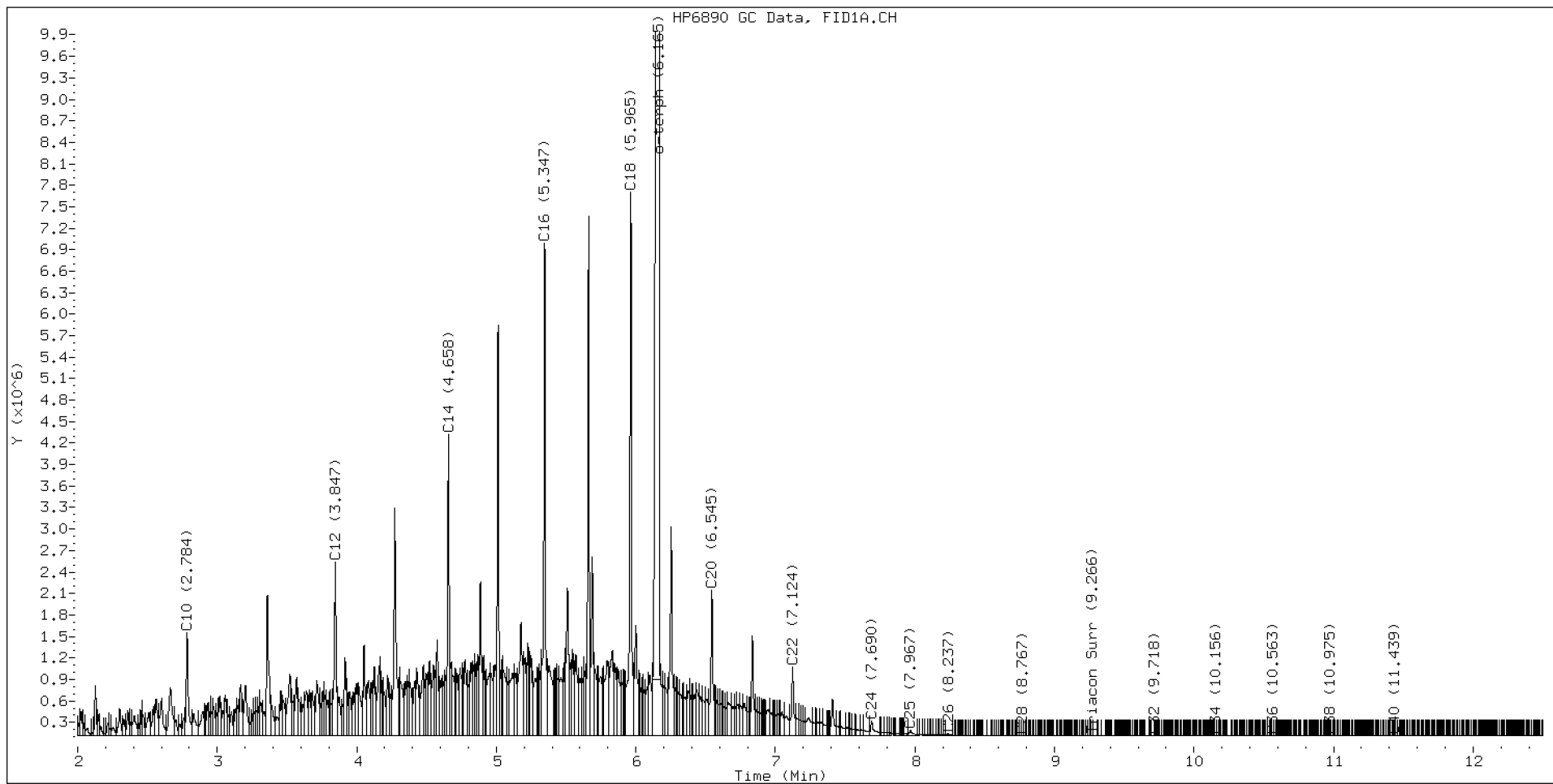
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.536	-0.007	149954	98749	WATPHD	(C12-C24)	162430372	1023.9
C10	2.784	-0.004	1439796	1548854	WATPHM	(C24-C38)	1264513	9.5
C12	3.847	-0.001	2421473	2554240	AK102	(C10-C25)	192320848	1017.2
C14	4.658	0.001	4204457	3276272	AK103	(C25-C36)	691204	7.0
C16	5.347	0.002	6879562	5892766	OR.DIES	(C10-C28)	192830179	1016.3
C18	5.965	0.003	7592509	7277681				
C20	6.545	-0.004	2041229	2172658				
C22	7.124	-0.006	960097	1127598				
C24	7.690	-0.006	201208	385652				
C25	7.967	-0.007	73017	142663				
C26	8.237	-0.007	27457	48850				
C28	8.767	0.004	3710	2779				
C32	9.718	0.001	1462	729				
C34	10.156	0.001	2849	1848				
Filter Peak	13.960	-0.002	10288	3572				
C36	10.563	-0.005	5029	2720				
C38	10.975	0.001	7473	2950				
C40	11.439	0.001	9125	4044				
o-terph	6.165	0.011	30678154	39035312				
Triacon Surr	9.266	-0.011	567	367	NAS DIES	(C10-C24)	191911673	1017.2

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	39035312	191.7 M
Triacontane	367	0.0

M Indicates the peak was manually integrated

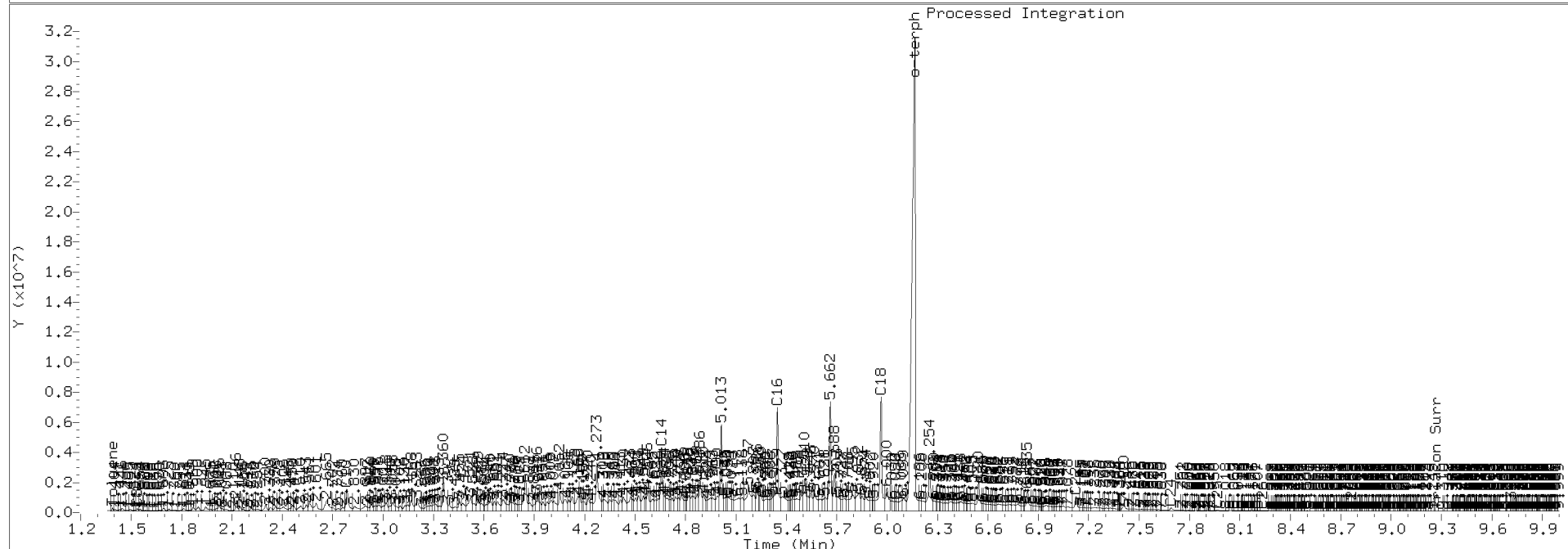
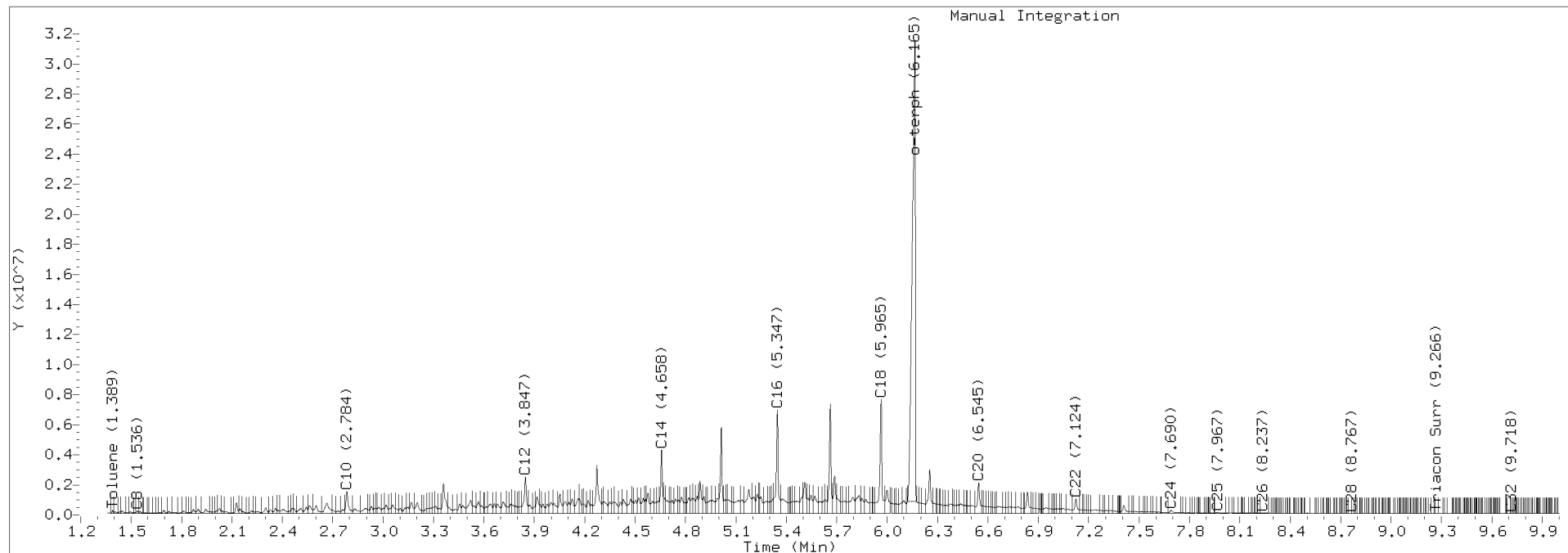
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220120.b/422A2009.D Injection: 20-JAN-2022 13:10

Lab ID:SKA0208-CAL5



Data File: \\target\share\chem2\fid4a,1\20220120,b\42282010.D

Date: 20-JAN-2022 13:30

Client ID:

Sample Info: SKR0208-CAL6

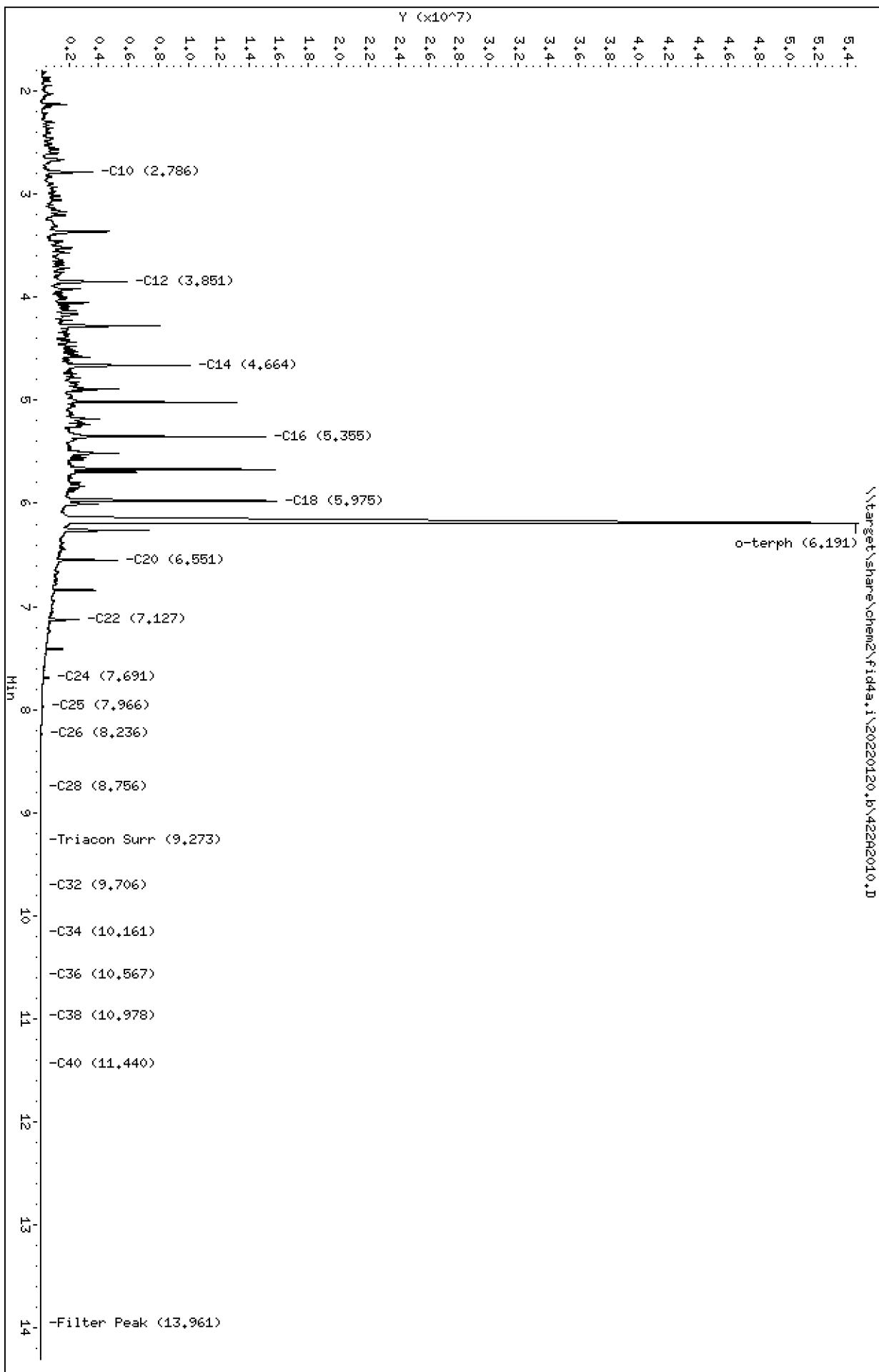
Column phase: RTX-1

Instrument: fid4a,1

Operator: WLB

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2010.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-CAL6
Client ID:
Injection: 20-JAN-2022 13:30
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

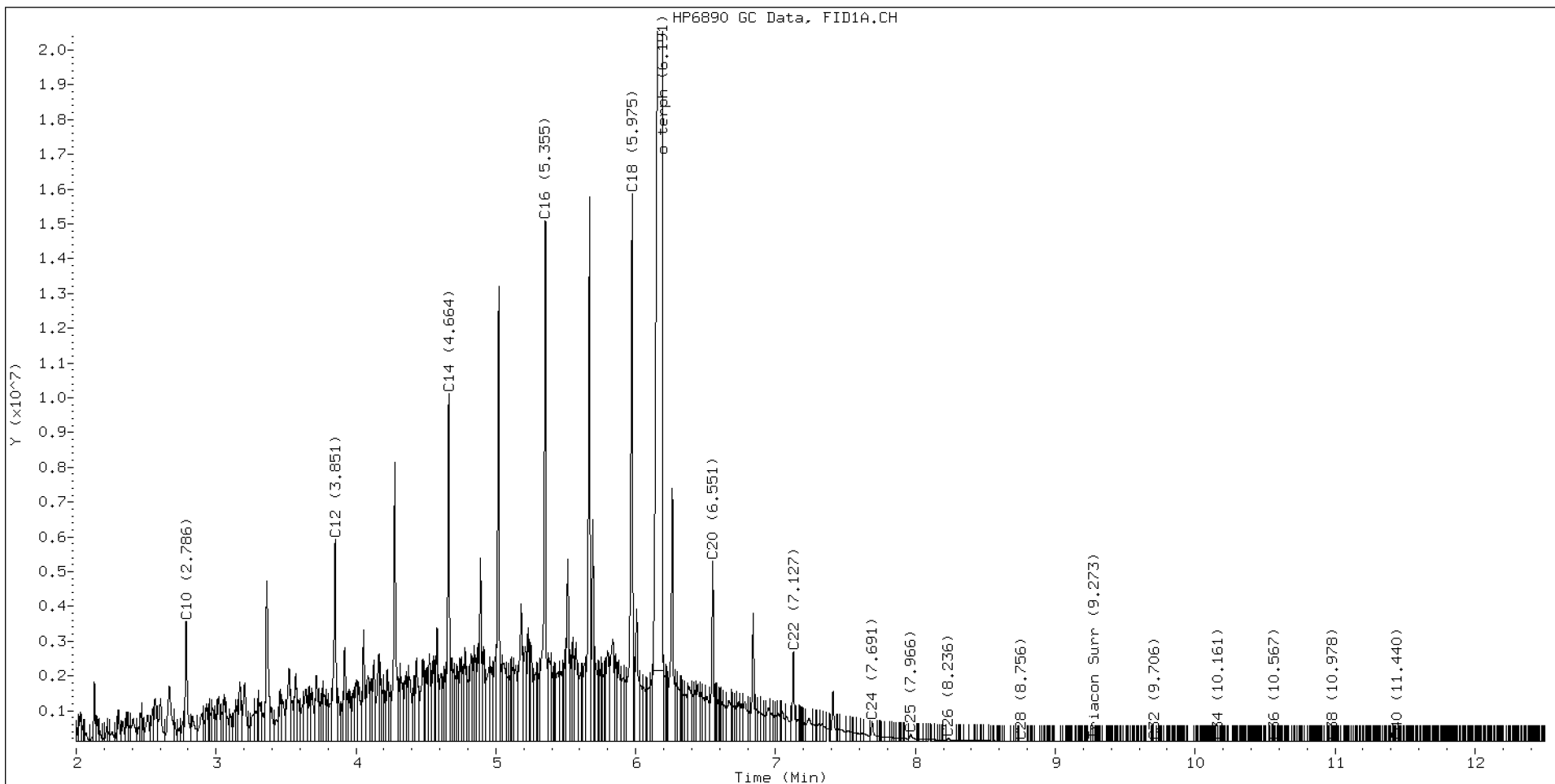
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.542	-0.001	359379	204664	WATPHD	(C12-C24)	401313275	2529.7
C10	2.786	-0.001	3451612	3747918	WATPHM	(C24-C38)	3255893	24.6
C12	3.851	0.003	5804470	6518180	AK102	(C10-C25)	473805635	2505.9
C14	4.664	0.006	9996069	8319063	AK103	(C25-C36)	1903073	19.2
C16	5.355	0.010	14976880	16519865	OR.DIES	(C10-C28)	475446210	2505.7
C18	5.975	0.013	15736444	17182717				
C20	6.551	0.002	5171124	5039701				
C22	7.127	-0.003	2582232	2708319				
C24	7.691	-0.006	575368	871757				
C25	7.966	-0.009	212908	393035				
C26	8.236	-0.008	84474	194854				
C28	8.756	-0.008	15719	40350				
C32	9.706	-0.011	2513	2679				
C34	10.161	0.006	1301	484				
Filter Peak	13.961	-0.002	1223	237				
C36	10.567	-0.001	3163	768				
C38	10.978	0.004	4396	2161				
C40	11.440	0.001	5426	4272				
o-terph	6.191	0.036	52535316	98139839				
Triacon Surr	9.273	-0.004	2245	1221	NAS DIES	(C10-C24)	472550701	2504.6

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	98139839	481.9 M
Triacontane	1221	0.0

M Indicates the peak was manually integrated

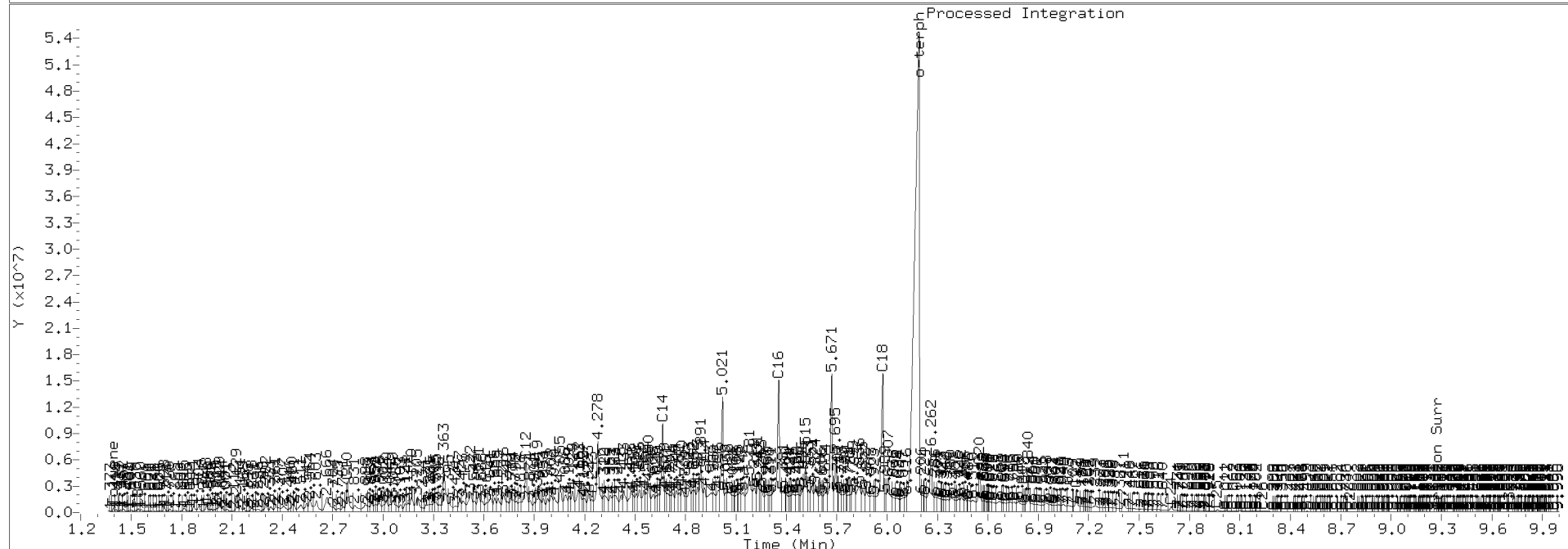
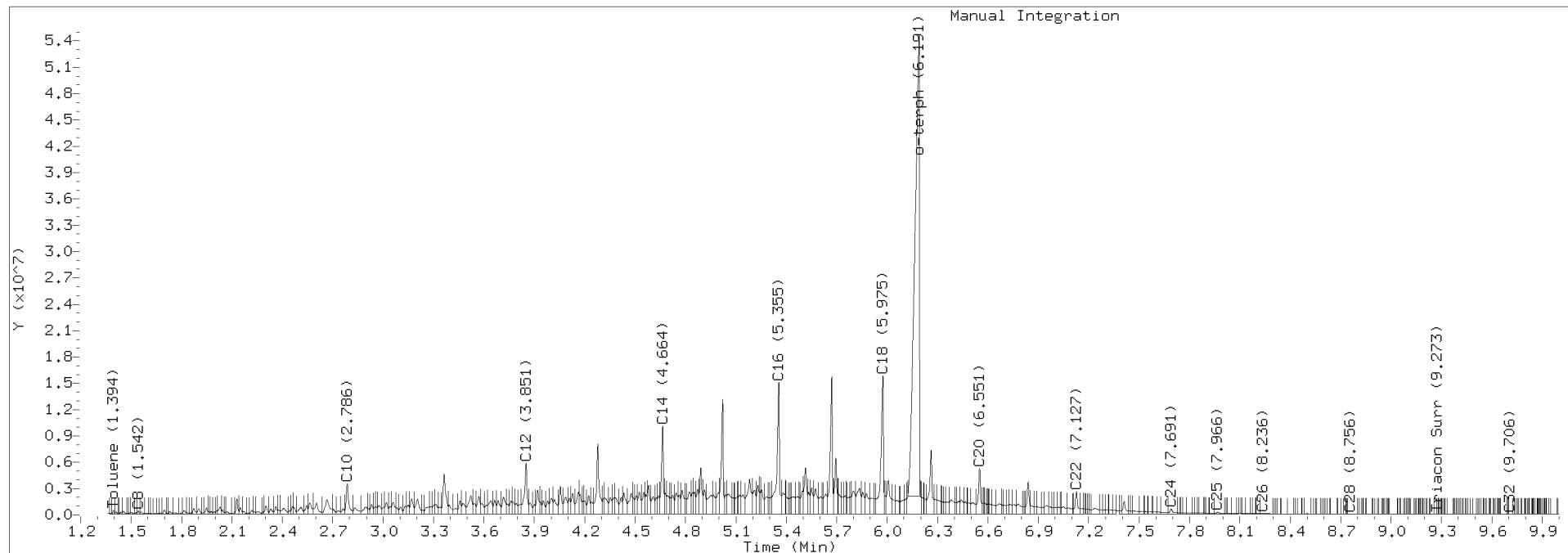
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220120.b/422A2010.D Injection: 20-JAN-2022 13:30

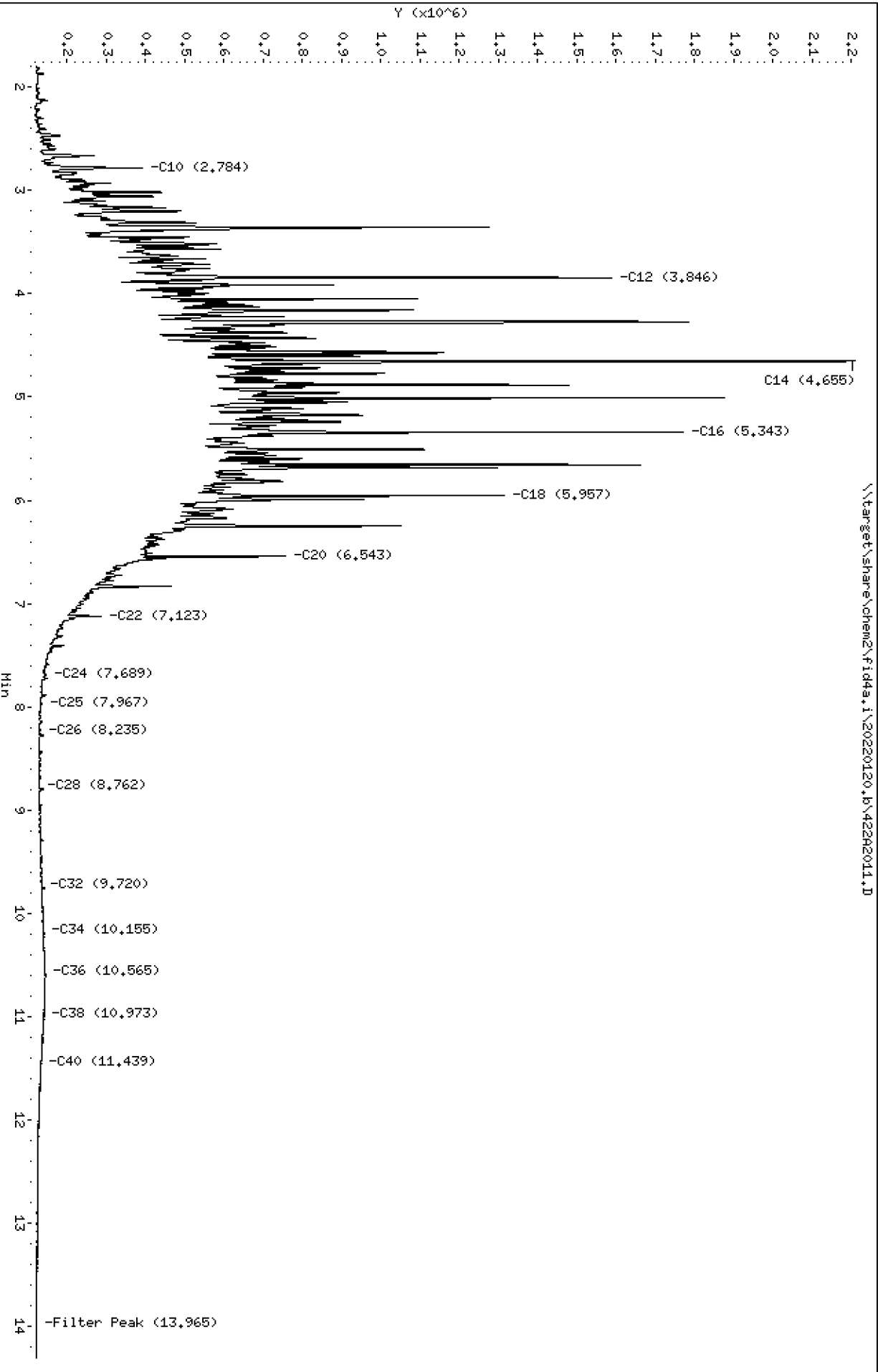
Lab ID:SKA0208-CAL6



Data File: \\target\share\chem2\fid4a,1\20220120_b\42282011.D
Date: 20-JAN-2022 13:50
Client ID:
Sample Info: SKR0208-SCW1

Column phase: RTX-1

Instrument: fid4a,1
Operator: WLB
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2011.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-SCV1
Client ID:
Injection: 20-JAN-2022 13:50
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

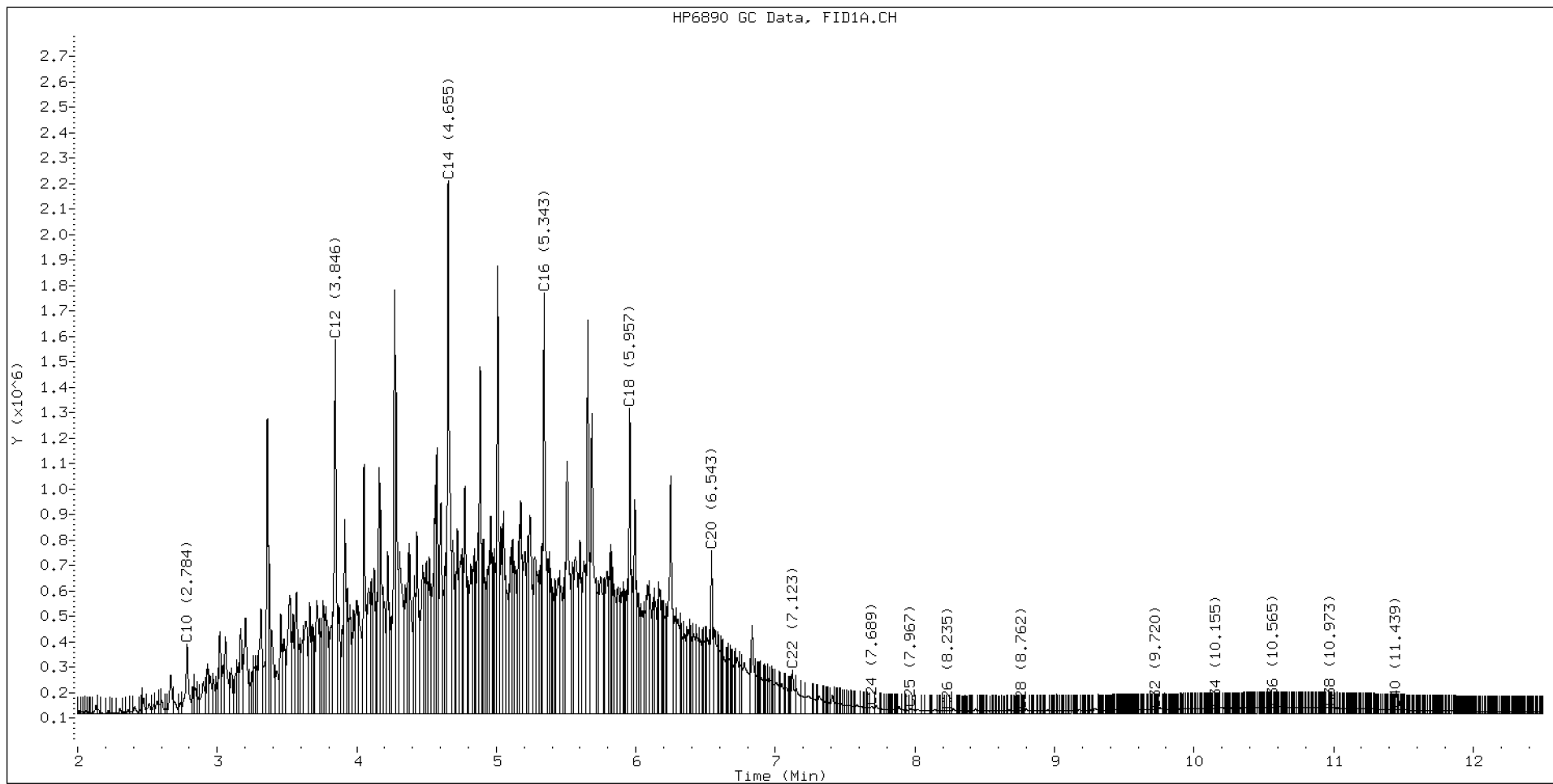
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.544	0.001	18500	21377	WATPHD	(C12-C24)	91791980	578.6
C10	2.784	-0.003	274520	418072	WATPHM	(C24-C38)	3249567	24.5
C12	3.846	-0.002	1470041	1730655	AK102	(C10-C25)	109259392	577.9
C14	4.655	-0.002	2091691	2520186	AK103	(C25-C36)	2486512	25.1
C16	5.343	-0.002	1652289	1980684	OR.DIES	(C10-C28)	109898714	579.2
C18	5.957	-0.005	1198312	1177531				
C20	6.543	-0.006	639233	695730				
C22	7.123	-0.007	169547	241250				
C24	7.689	-0.007	28257	52637				
C25	7.967	-0.007	19233	25038				
C26	8.235	-0.009	12361	12259				
C28	8.762	-0.002	11738	2920				
C32	9.720	0.003	17524	10151				
C34	10.155	0.000	21103	7290				
Filter Peak	13.965	0.003	4638	1151				
C36	10.565	-0.003	24473	16973				
C38	10.973	-0.002	22520	6721				
C40	11.439	0.001	15551	3097				
o-terph	----							
Triacon Surr	----				NAS DIES	(C10-C24)	109074547	578.1

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	0	0.0
Triacontane	0	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022





ANALYSIS SEQUENCE

SKA0028

Instrument: FID4
Calibration ID: FA00013

Printed: 1/7/2022 6:12:45PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKA0028-IBL1	QC		1		J002430			
SKA0028-IBL2	QC		2		J012751			
SKA0028-CAL1	QC		3		K000192			
SKA0028-CAL2	QC		4		K000193			
SKA0028-CAL3	QC		5		K000194			
SKA0028-CAL4	QC		6		K000195			
SKA0028-CAL5	QC		7		K000196			
SKA0028-CAL6	QC		8		J012752			
SKA0028-CAL7	QC		9		J011839			
SKA0028-CAL8	QC		10		J011838			
SKA0028-CAL9	QC		11		J011837			
SKA0028-CALA	QC		12		J011836			
SKA0028-CALB	QC		13		J011835			
SKA0028-CALC	QC		14		J010293			
SKA0028-SCV1	QC		15		J009677			
SKA0028-SCV2	QC		16		J012167			
SKA0028-CALD	QC		17		J012178			
SKA0028-CALE	QC		18		J012179			
SKA0028-CALF	QC		19		J012180			
SKA0028-CALG	QC		20		J012181			
SKA0028-CALH	QC		21		J012182			

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____



ANALYSIS SEQUENCE

SKA0028

Instrument: FID4
Calibration ID: FA00013

Printed: 1/7/2022 6:12:45PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKA0028-CALI	QC		22		J009013			
SKA0028-SCV3	QC		23		J012184			

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - fid4a.i\20220106.b

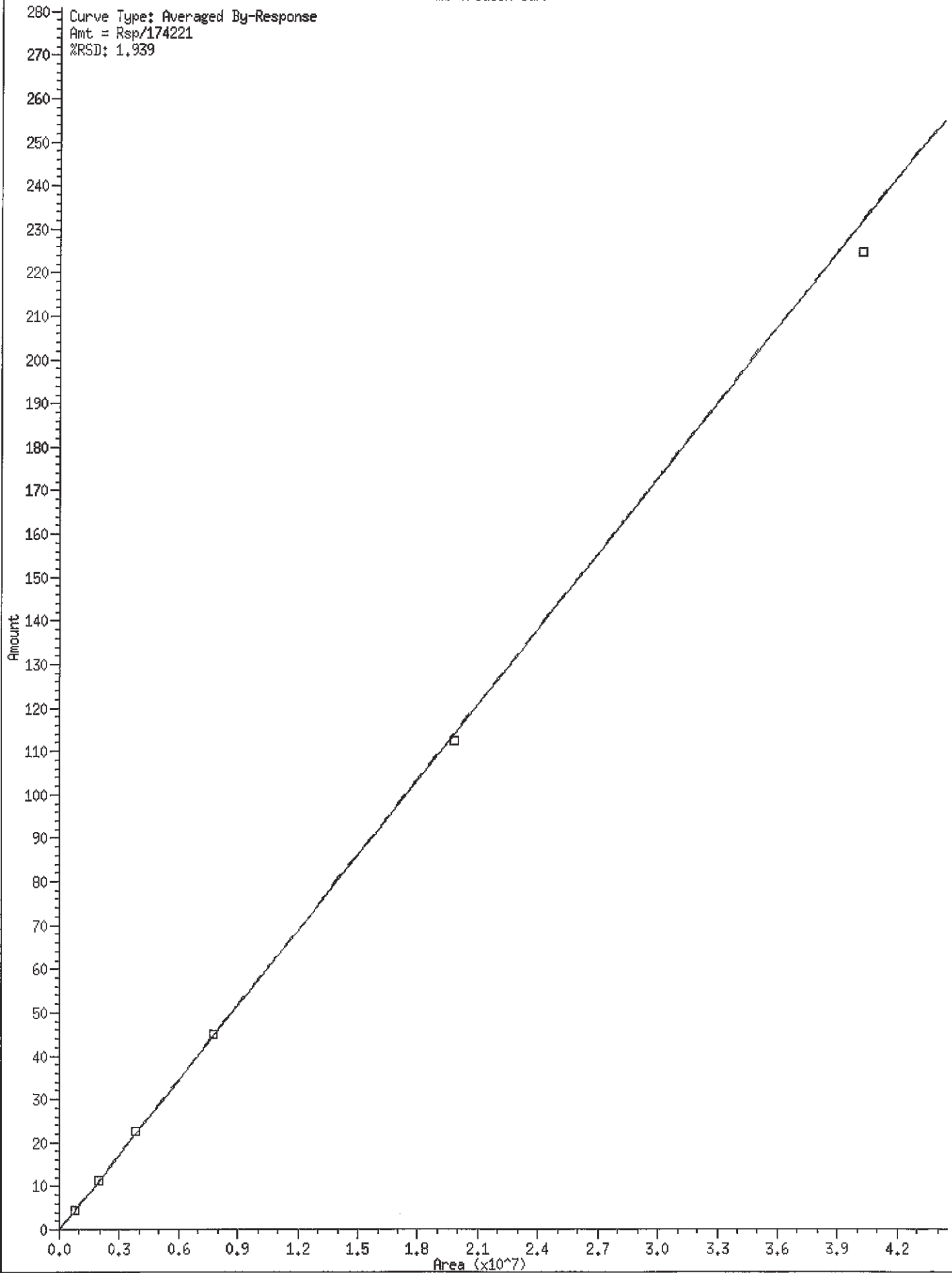
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1	06-JAN-2022	09:20	422A0601.D	1	RINSE	
2	06-JAN-2022	09:40	422A0602.D	1	RINSE	
3	06-JAN-2022	09:59	422A0603.D	1	SKA0028-IBL1	
4	06-JAN-2022	10:19	422A0604.D	1	SKA0028-IBL2	
5	06-JAN-2022	10:39	422A0605.D	1	SKA0028-ICV1	
6	06-JAN-2022	10:59	422A0606.D	1	SKA0028-ICV2	
7	06-JAN-2022	11:19	422A0607.D	1	BKA0056-BLK1	
8	06-JAN-2022	11:38	422A0608.D	1	BKA0056-BS1	
9	06-JAN-2022	11:58	422A0609.D	1	BKA0056-MRL1	
10	06-JAN-2022	12:18	422A0610.D	1	BKA0056-MRL2	
11	06-JAN-2022	12:38	422A0611.D	1	22A0041-01	
12	06-JAN-2022	12:58	422A0612.D	10	22A0041-01	
13	06-JAN-2022	13:17	422A0613.D	10	22A0041-02	
14	06-JAN-2022	13:37	422A0614.D	20	22A0041-01	
15	06-JAN-2022	13:57	422A0615.D	20	22A0041-02	
16	06-JAN-2022	14:17	422A0616.D	20	22A0041-03	
17	06-JAN-2022	14:37	422A0617.D	20	22A0041-04	
18	06-JAN-2022	14:56	422A0618.D	1	SKA0028-CCV1	
19	06-JAN-2022	15:16	422A0619.D	1	SKA0028-CCV2	
20	06-JAN-2022	17:04	422A0620.D	1	SKA0028-CAL1	
21	06-JAN-2022	17:24	422A0621.D	1	SKA0028-CAL2	
22	06-JAN-2022	17:44	422A0622.D	1	SKA0028-CAL3	
23	06-JAN-2022	18:04	422A0623.D	1	SKA0028-CAL4	
24	06-JAN-2022	18:23	422A0624.D	1	SKA0028-CAL5	
25	06-JAN-2022	18:43	422A0625.D	1	SKA0028-CAL6	
26	06-JAN-2022	19:03	422A0626.D	1	SKA0028-CAL7	
27	06-JAN-2022	19:23	422A0627.D	1	SKA0028-CAL8	
28	06-JAN-2022	19:43	422A0628.D	1	SKA0028-CAL9	
29	06-JAN-2022	20:02	422A0629.D	1	SKA0028-CALA	
30	06-JAN-2022	20:22	422A0630.D	1	SKA0028-CALB	
31	06-JAN-2022	20:42	422A0631.D	1	SKA0028-CALC	
32	06-JAN-2022	21:02	422A0632.D	1	SKA0028-SCV1	
33	06-JAN-2022	21:21	422A0633.D	1	SKA0028-SCV2	
34	06-JAN-2022	21:41	422A0634.D	1	SKA0028-CALD	
35	06-JAN-2022	22:01	422A0635.D	1	SKA0028-CALE	
36	06-JAN-2022	22:21	422A0636.D	1	SKA0028-CALF	
37	06-JAN-2022	22:40	422A0637.D	1	SKA0028-CALG	
38	06-JAN-2022	23:00	422A0638.D	1	SKA0028-CALH	
39	06-JAN-2022	23:20	422A0639.D	1	SKA0028-CALI	
40	06-JAN-2022	23:40	422A0640.D	1	SKA0028-SCV3	

* 15 Triacon Surr

Curve Type: Averaged By-Response

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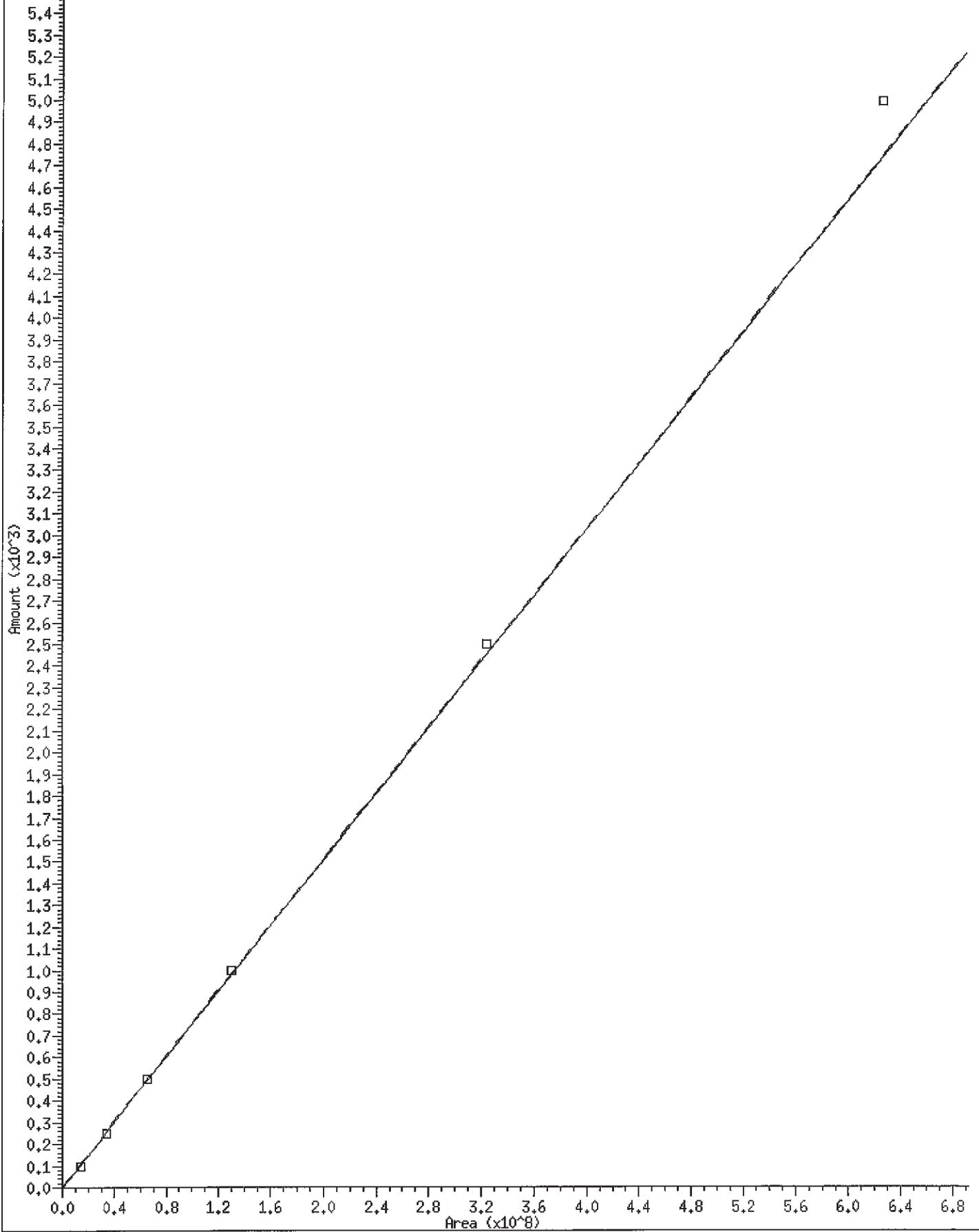
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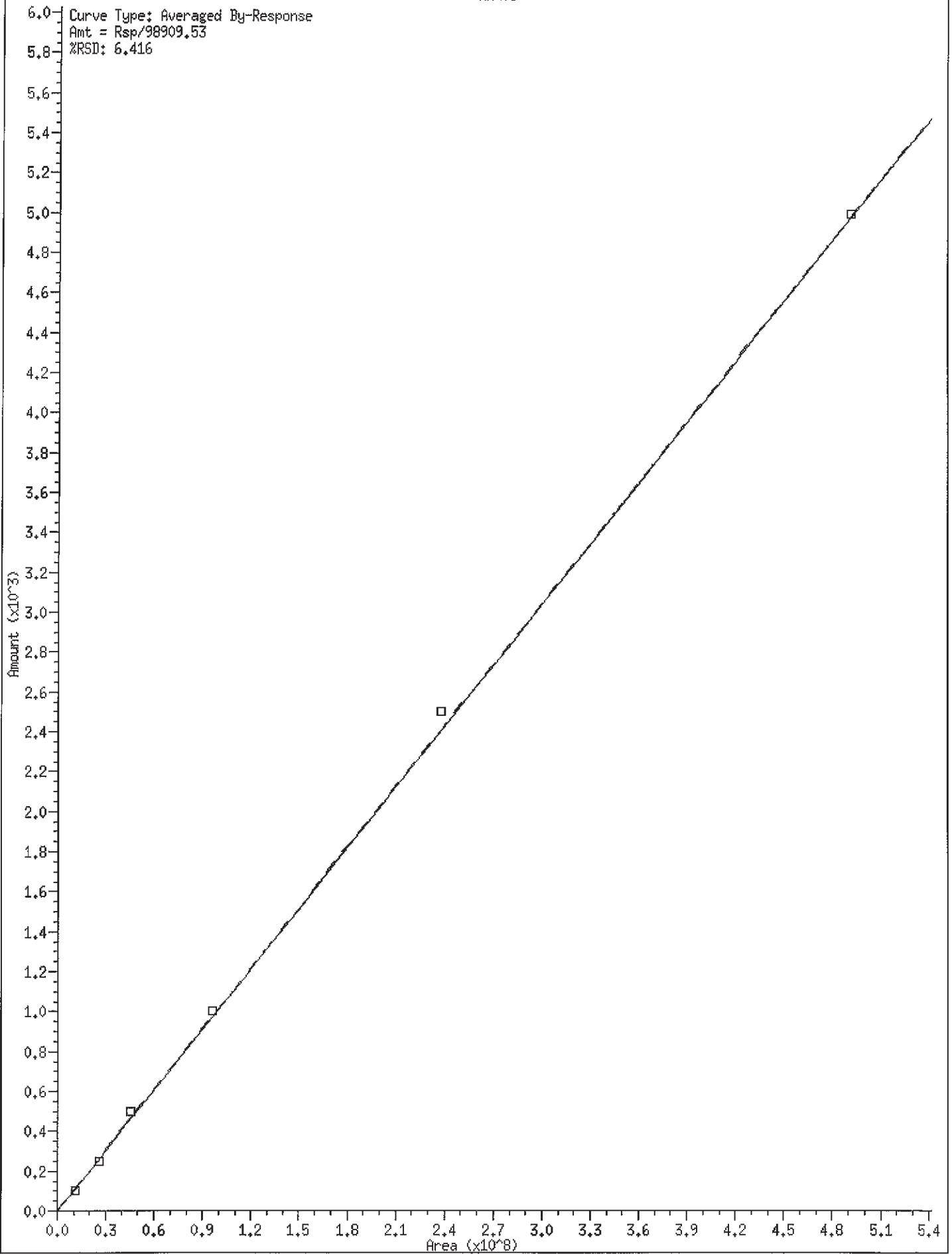


5.7 Curve Type: Averaged By-Response

5.6 Amt = Rsp/132579.1

5.5 %RSD: 4.906

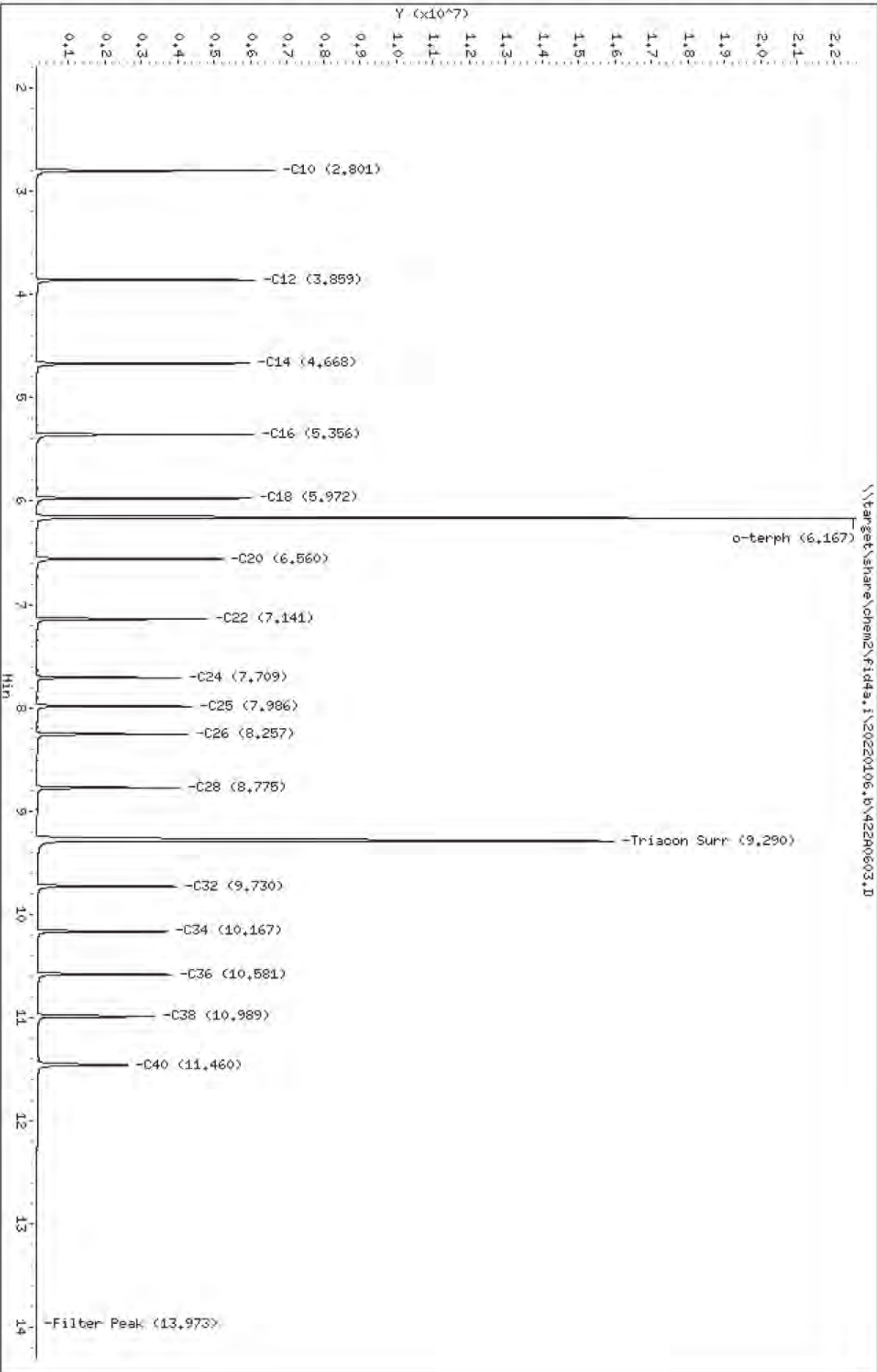




Data File: \\target\share\chem2\fid4s,1\20220106,b\42240603.D
Date: 06-JUN-2022 09:59
Client ID:
Sample Info: SKA0028-IBL1

Column phase: RTX-1

Instrument: fid4s,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0603.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-IBL1
Client ID:
Injection: 06-JAN-2022 09:59
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

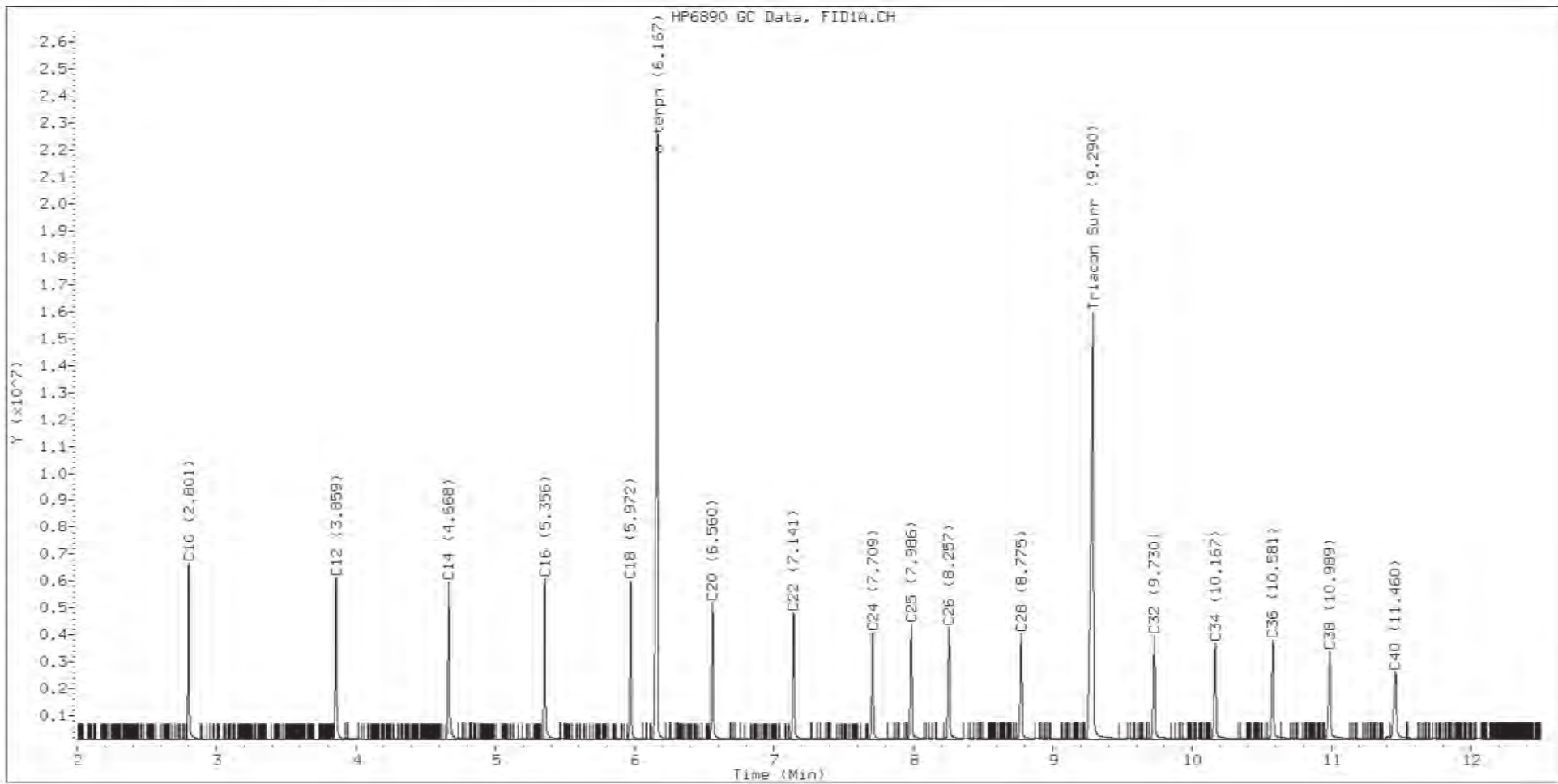
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.566	0.000	6713601	4039787	WATPHD	(C12-C24)	25039660	171.8
C10	2.801	0.000	6536883	4315633	WATPHM	(C24-C38)	28366853	214.0
C12	3.859	0.000	5996498	4131476	AK102	(C10-C25)	33798538	196.2
C14	4.668	0.000	5854462	4184820	AK103	(C25-C36)	23829494	240.9
C16	5.356	0.000	5963937	4127029	OR.DIES	(C10-C28)	45179025	260.0
C18	5.972	0.000	5885012	4061247				
C20	6.560	0.000	5093441	4004125				
C22	7.141	0.000	4686847	3888196				
C24	7.709	0.000	3978753	3286889				
C25	7.986	0.000	4279511	3648257				
C26	8.257	0.000	4166577	3725307				
C28	8.775	0.000	3937835	3595457				
C32	9.730	0.000	3839649	3755061				
C34	10.167	0.000	3575886	3656599				
Filter Peak	13.973	0.000	14079	6183				
C36	10.581	0.000	3708443	3634457				
C38	10.989	0.000	3260642	3846028				
C40	11.460	0.000	2490894	3636263				
o-terph	6.167	0.000	22482578	21984004				
Triacon Surr	9.290	0.000	15855592	21633183	NAS DIES	(C10-C24)	33658258	196.0

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	21984004	114.5
Triacontane	21633183	124.2

M Indicates the peak was manually integrated

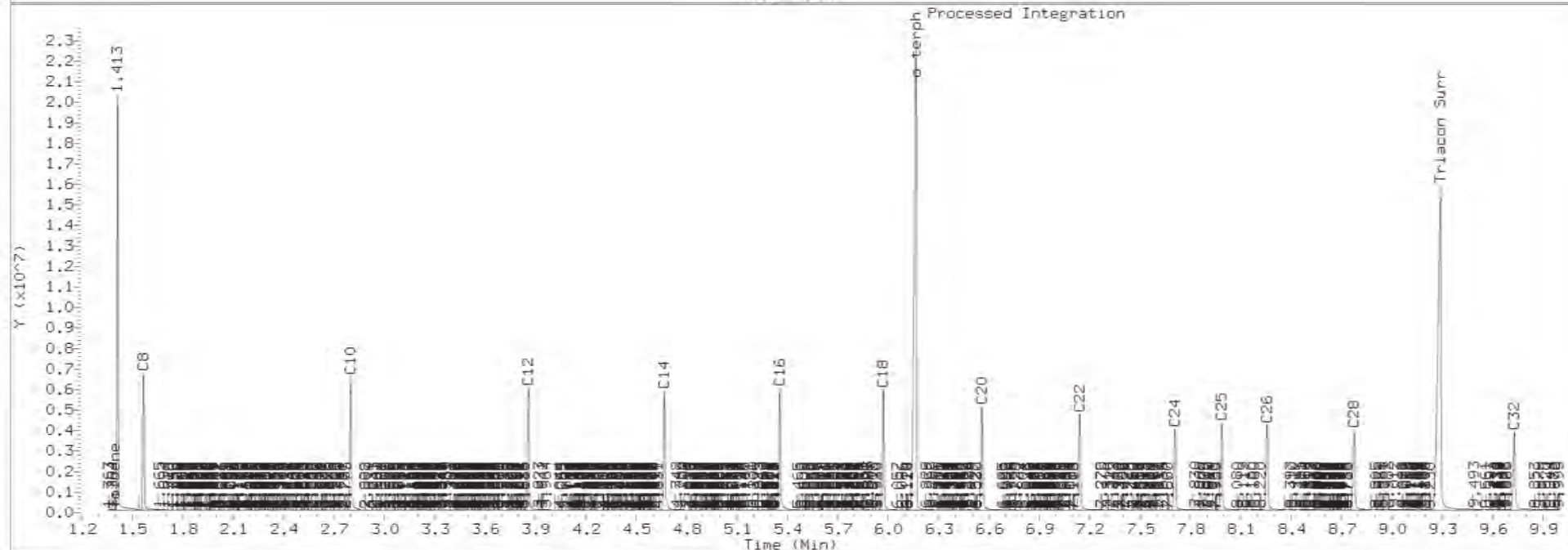
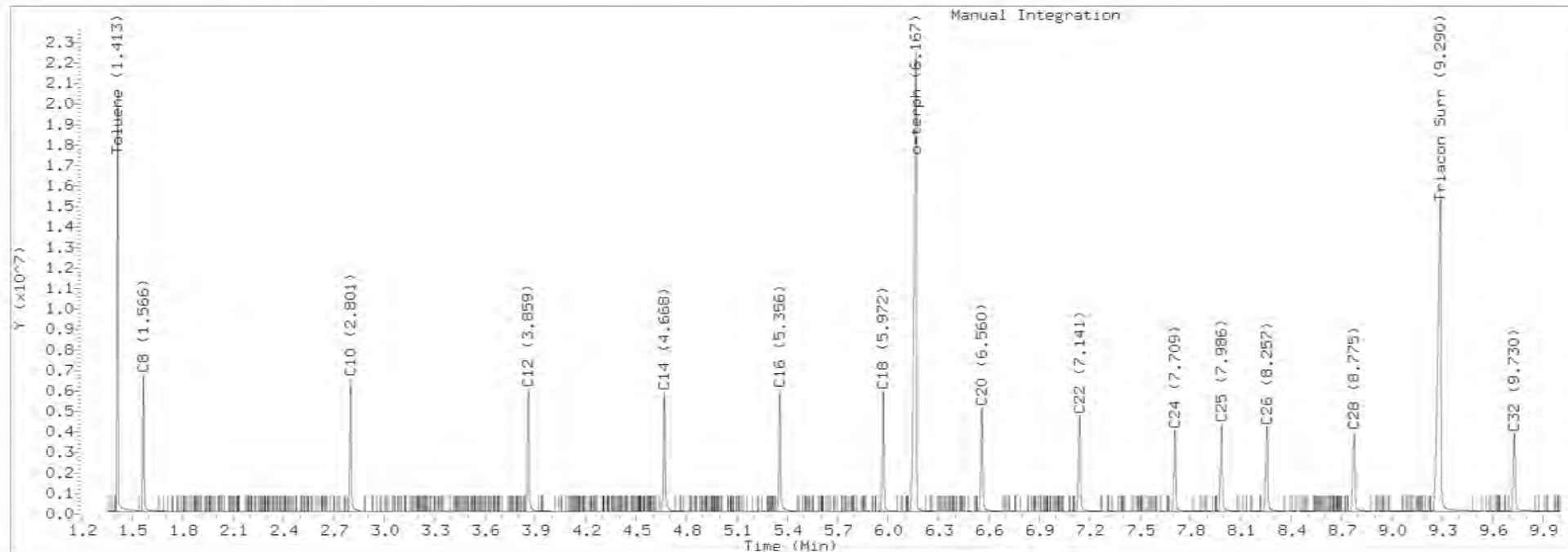
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0603.D Injection: 06-JAN-2022 09:59

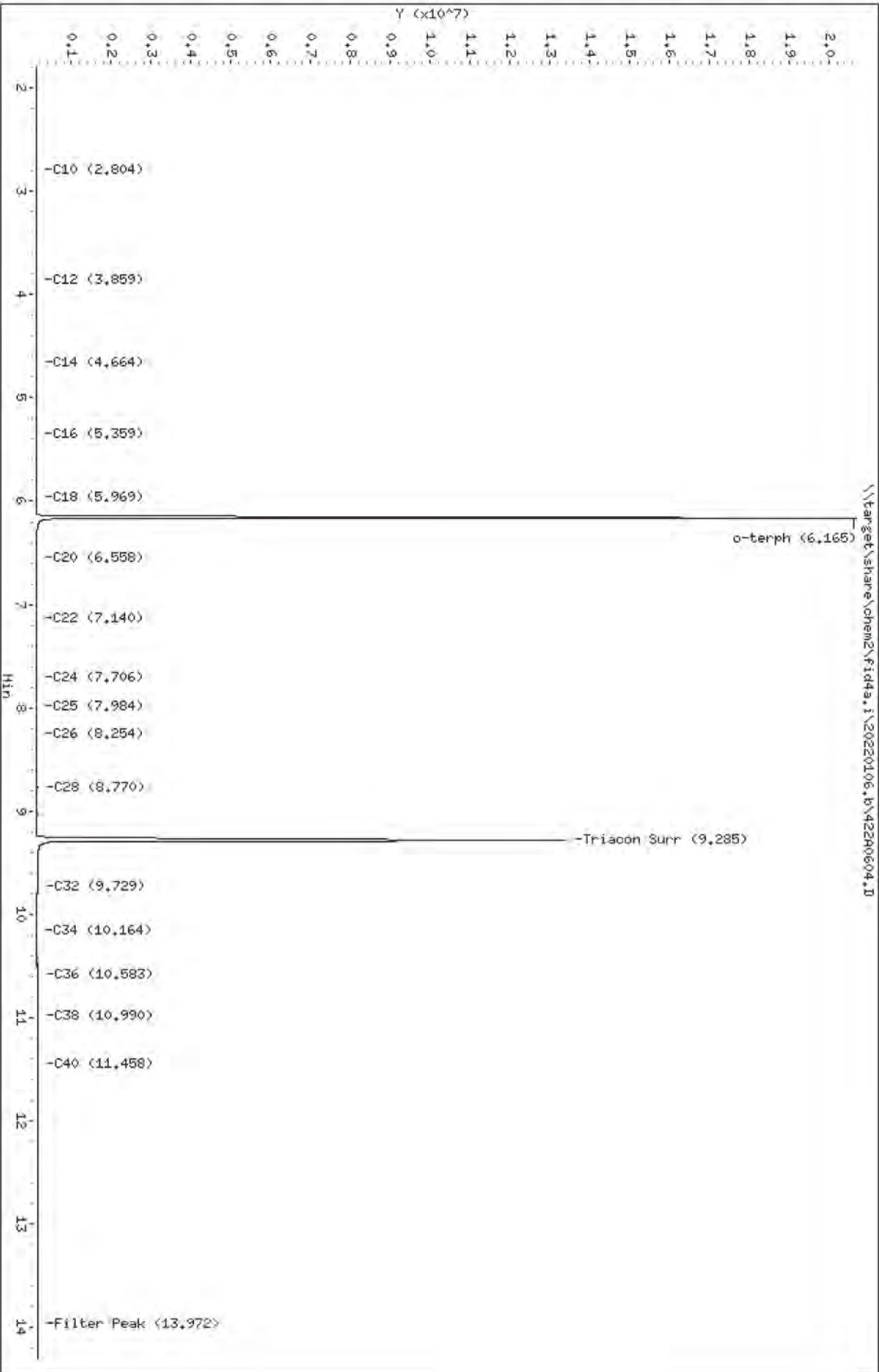
Lab ID:SKA0028-IBL1



Data File: \\target\share\chem2\fid4s.1\20220106.b\42240604.D
Date: 06-JUN-2022 10:19
Client ID:
Sample Info: SKA0028-IBL2

Column phase: RTX-1

Instrument: fid4s.1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0604.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-IBL2
Client ID:
Injection: 06-JAN-2022 10:19
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

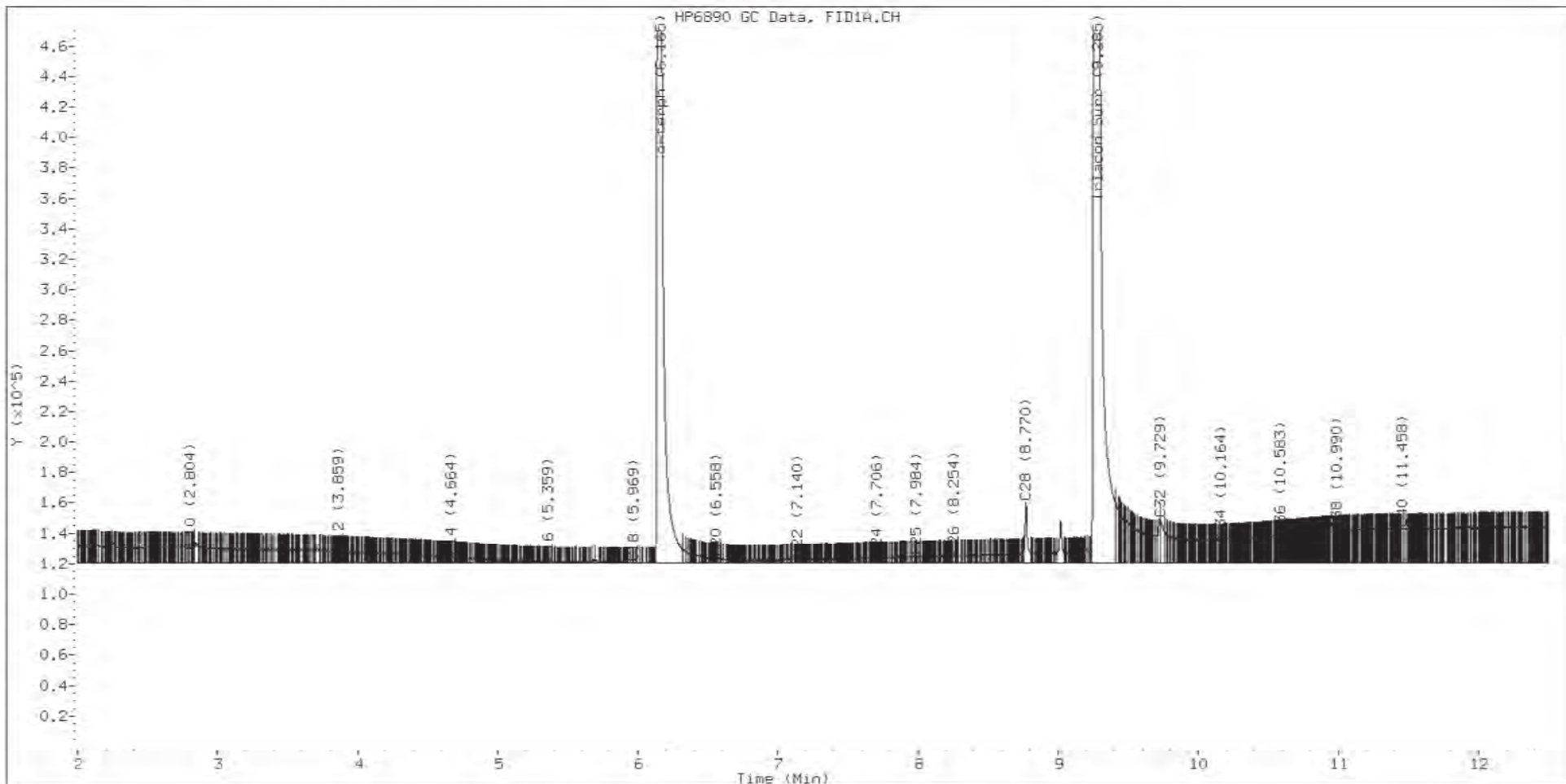
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.559	-0.008	19299	11444	WATPHD	(C12-C24)	622077	4.3
C10	2.804	0.003	10342	8454	WATPHM	(C24-C38)	2333932	17.6
C12	3.859	-0.000	7697	1914	AK102	(C10-C25)	1293098	7.5
C14	4.664	-0.004	4159	2417	AK103	(C25-C36)	1797549	18.2
C16	5.359	0.002	914	207	OR.DIES	(C10-C28)	1589947	9.1
C18	5.969	-0.003	462	129				
C20	6.558	-0.002	3676	1619				
C22	7.140	-0.001	2659	646				
C24	7.706	-0.003	3951	1720				
C25	7.984	-0.002	4536	2462				
C26	8.254	-0.004	5187	4697				
C28	8.770	-0.005	39782	48787				
C32	9.729	-0.001	29141	49217				
C34	10.164	-0.003	15846	10202				
Filter Peak	13.972	-0.001	22292	8869				
C36	10.583	0.001	18551	7386				
C38	10.990	0.001	21344	10622				
C40	11.458	-0.002	22810	13640				
o-terph	6.165	-0.002	20576644	20107672				
Triacon Surr	9.285	-0.004	13279811	16645751	NAS DIES	(C10-C24)	1251413	7.3

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	20107672	104.7
Triacontane	16645751	95.5

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

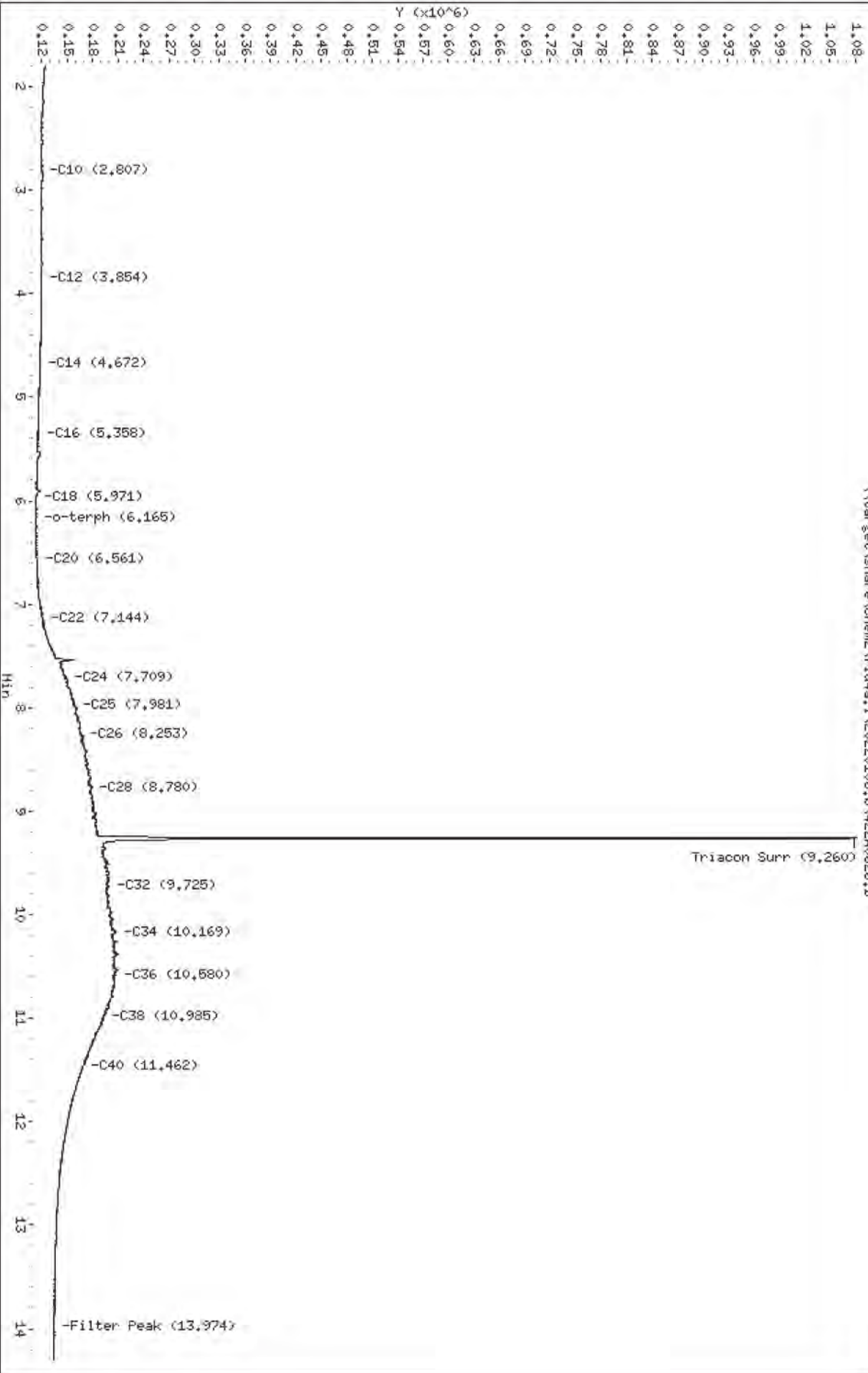


Data File: \\target\share\chem2\fid4s.1\20220106.b\42240626.D
Date: 06-JUN-2022 19:03
Client ID:
Sample Info: SKA0028-CAL7

Column phase: RTX-1

Instrument: fid4s.1
Operator: TMC
Column diameter: 0.25

\\target\share\chem2\fid4s.1\20220106.b\42240626.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0626.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL7
Client ID:
Injection: 06-JAN-2022 19:03
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

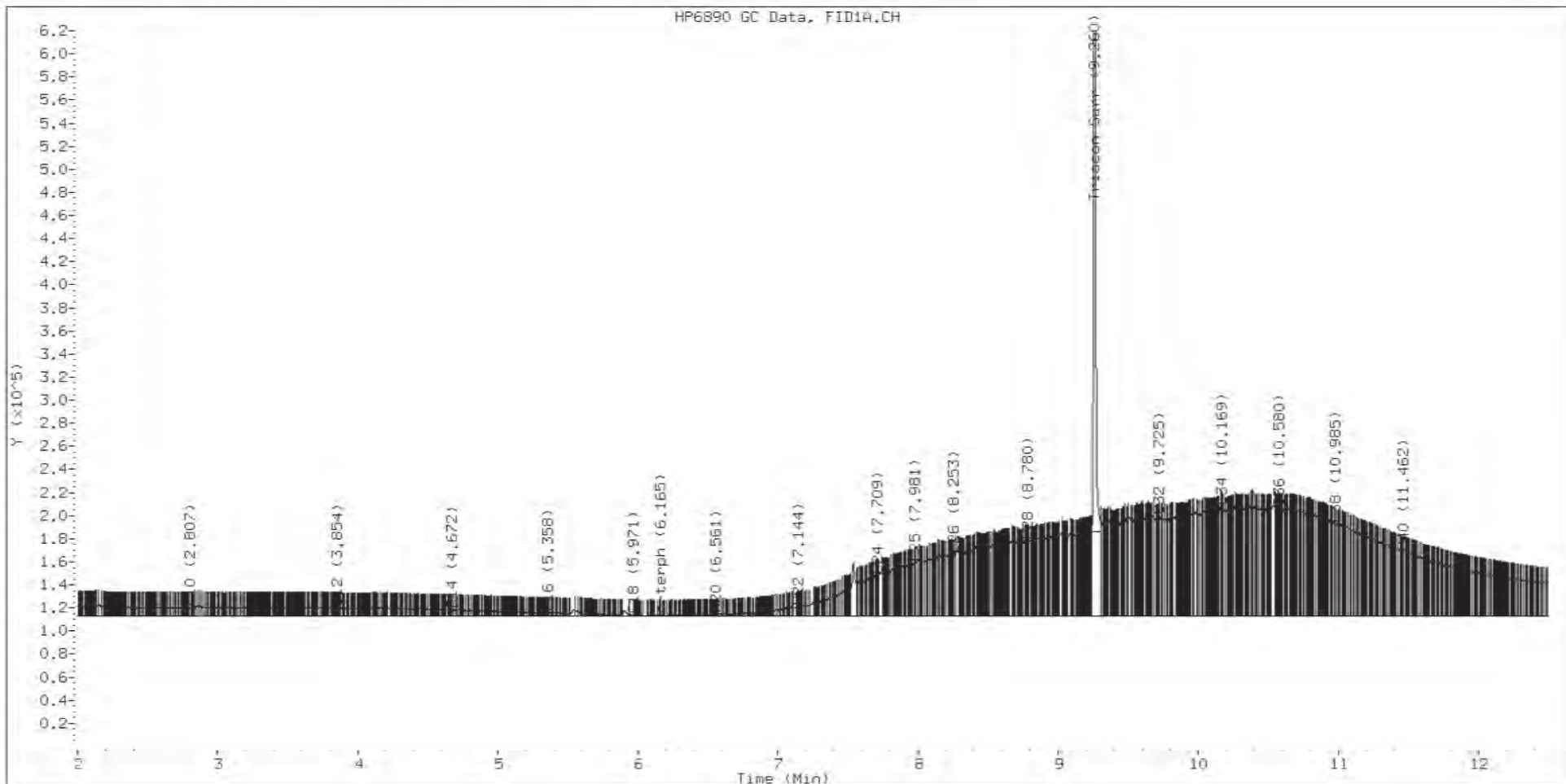
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.567	0.001	17629	12134	WATPHD	(C12-C24)	1428990	9.8
C10	2.807	0.006	7315	5700	WATPHM	(C24-C38)	14418390	108.8
C12	3.854	-0.005	6863	3745	AK102	(C10-C25)	2314627	13.4
C14	4.672	0.004	4948	1225	AK103	(C25-C36)	11930212	120.6
C16	5.358	0.002	2549	743	OR.DIES	(C10-C28)	5302500	30.5
C18	5.971	-0.001	466	165				
C20	6.561	0.002	1433	294				
C22	7.144	0.002	8558	5362				
C24	7.709	-0.000	35231	7021				
C25	7.981	-0.005	45824	15837				
C26	8.253	-0.004	53409	34474				
C28	8.780	0.005	65326	35831				
C32	9.725	-0.005	86340	63871				
C34	10.169	0.002	95121	70488				
Filter Peak	13.974	0.001	21668	9718				
C36	10.580	-0.001	93623	60434				
C38	10.985	-0.004	79927	51632				
C40	11.462	0.002	55525	16626				
o-terph	6.165	-0.003	642	355				
Triacon Surr	9.260	-0.029	895649	780573	NAS DIES	(C10-C24)	1888344	11.0

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	355	0.0
Triacontane	780573	4.5 M

M Indicates the peak was manually integrated

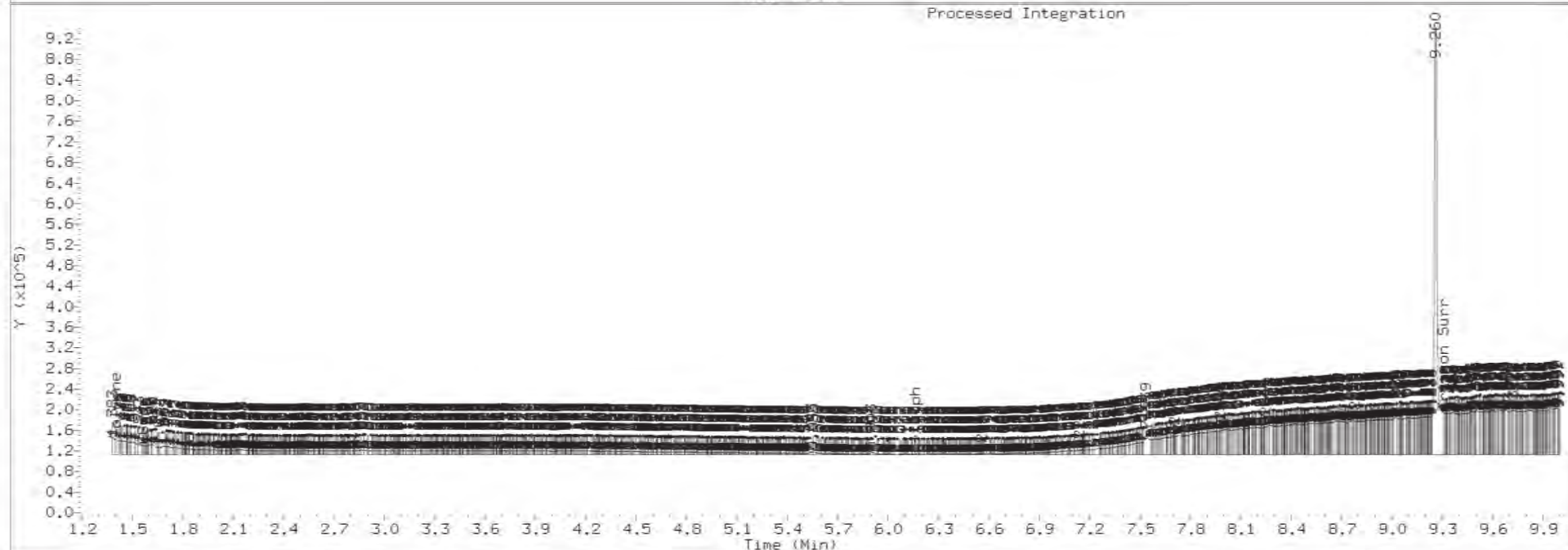
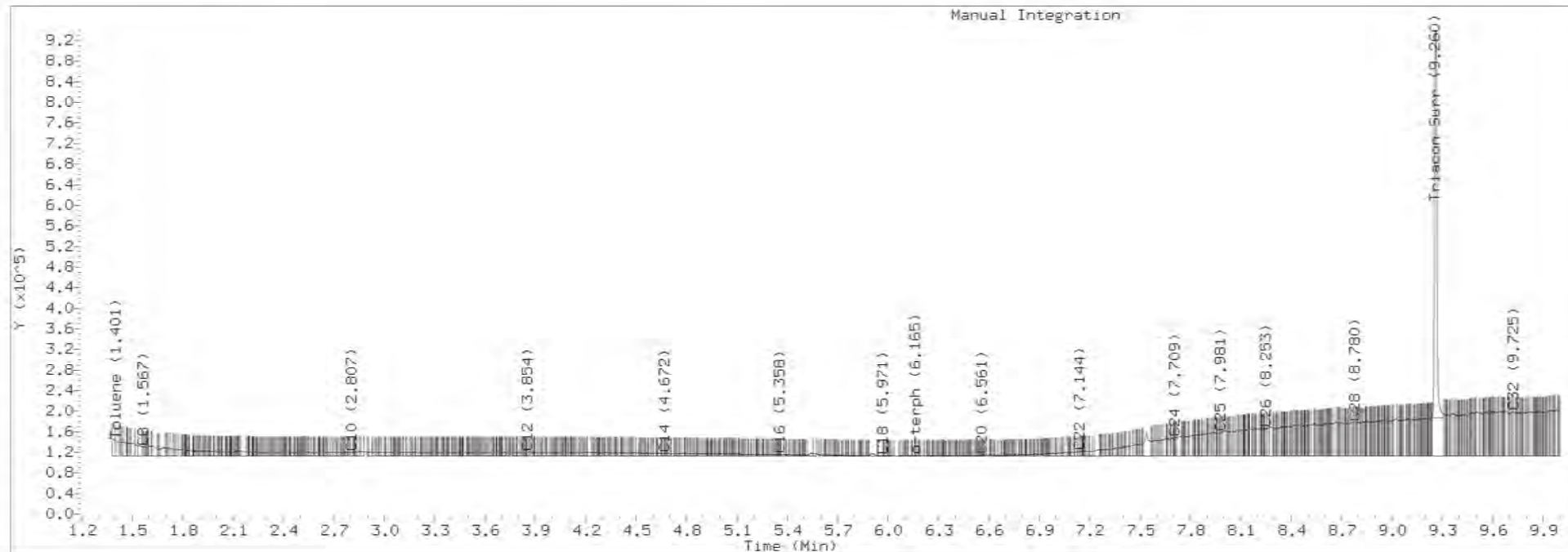
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0626.D Injection: 06-JAN-2022 19:03

Lab ID:SKA0028-CAL7

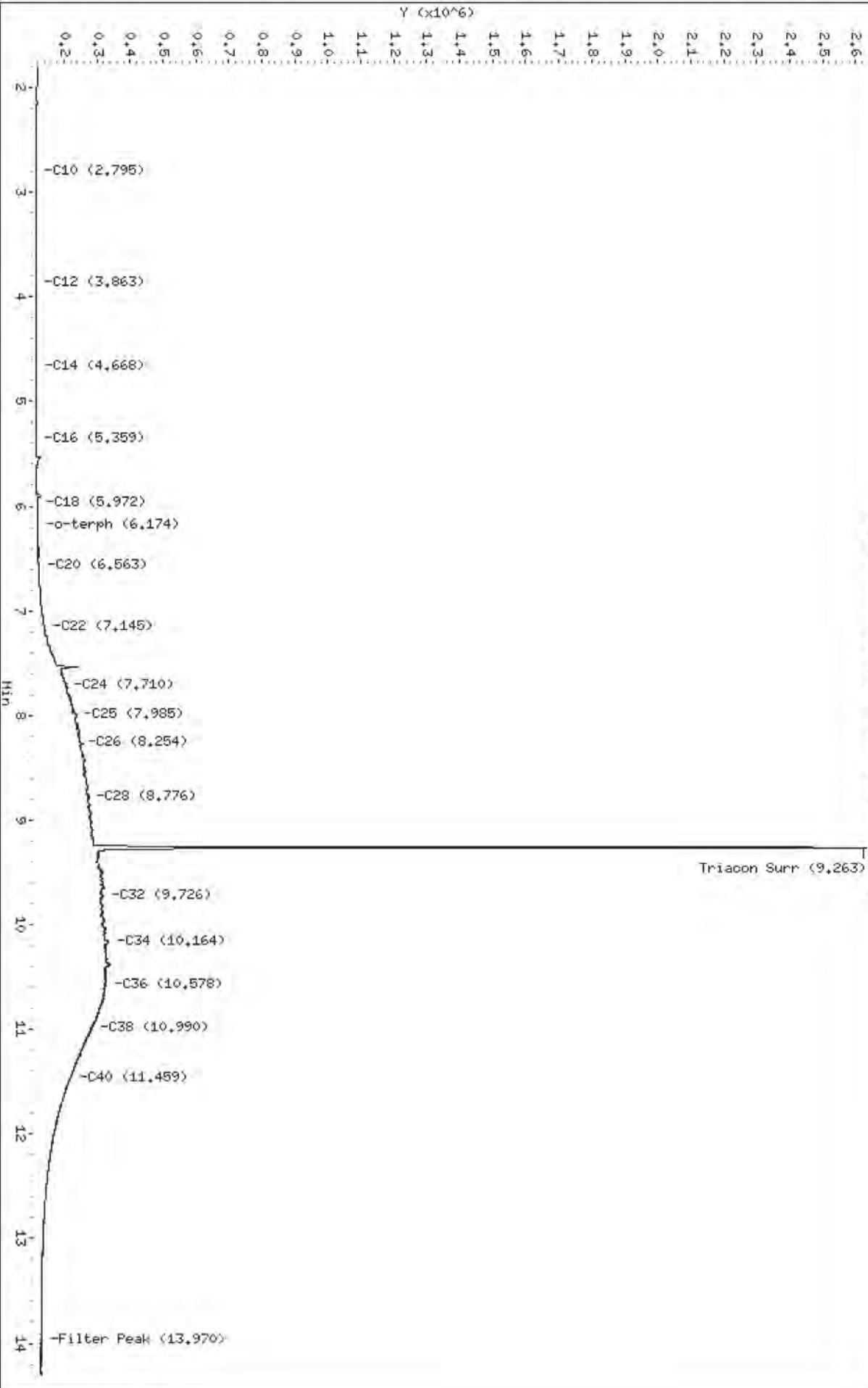


Data File: \\target\share\chem2\fid4s.1\20220106.b\42240627.D
Date: 06-JUN-2022 19:23
Client ID:
Sample Info: SKA0028-CAL8

Column phase: RTX-1

Instrument: fid4s.1
Operator: TMC
Column diameter: 0.25

\\target\share\chem2\fid4s.1\20220106.b\42240627.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0627.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL8
Client ID:
Injection: 06-JAN-2022 19:23
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

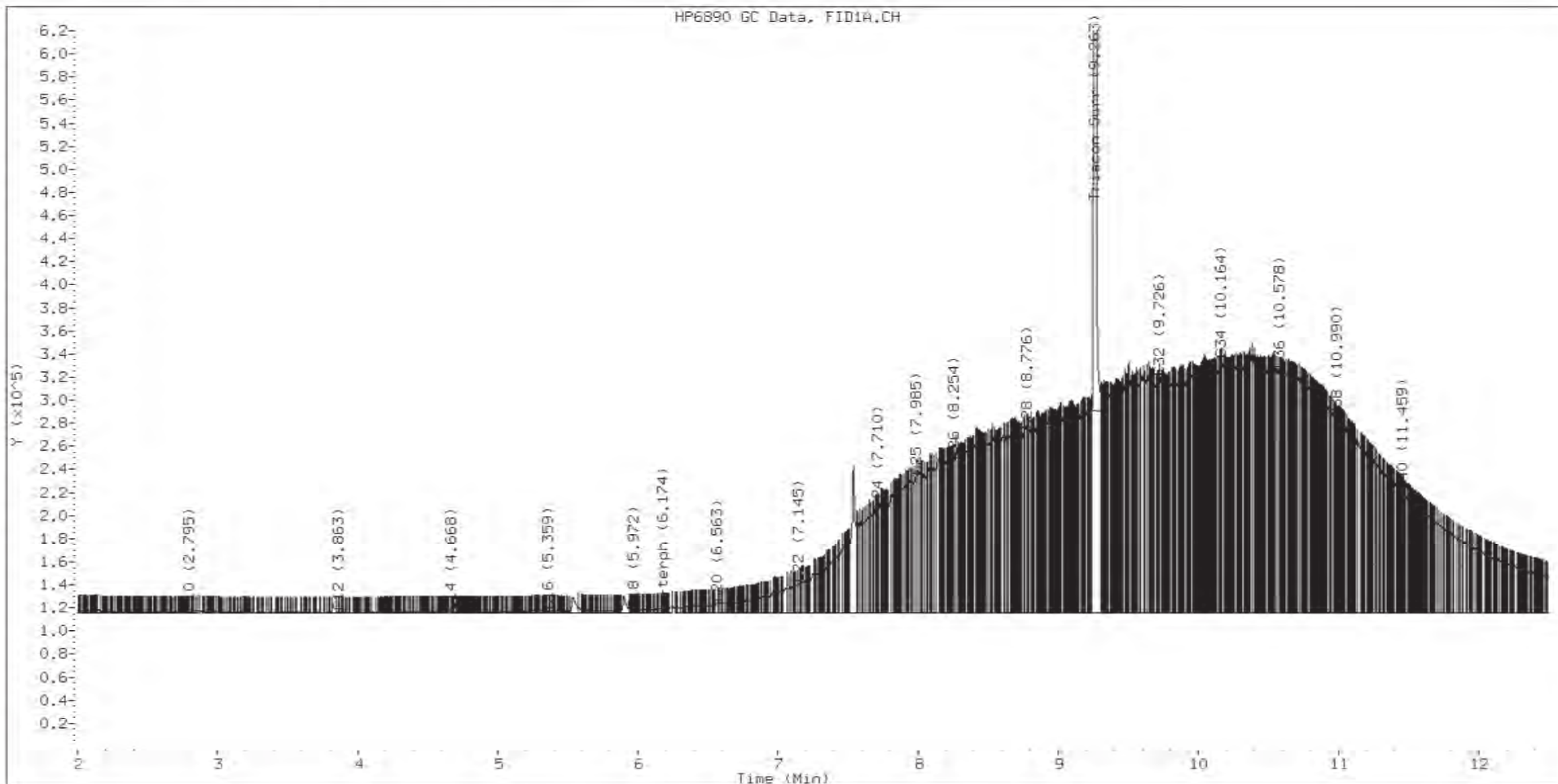
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.564	-0.002	10974	5451	WATPHD	(C12-C24)	2859083	19.6
C10	2.795	-0.006	709	310	WATPHM	(C24-C38)	33910212	255.8
C12	3.863	0.005	301	110	AK102	(C10-C25)	3974861	23.1
C14	4.668	-0.000	959	351	AK103	(C25-C36)	28362150	286.7
C16	5.359	0.003	1341	1255	OR.DIES	(C10-C28)	11300132	65.0
C18	5.972	-0.000	2547	737				
C20	6.563	0.004	8305	10153				
C22	7.145	0.004	24838	24382				
C24	7.710	0.001	89563	22309				
C25	7.985	-0.001	118154	98497				
C26	8.254	-0.003	131978	52511				
C28	8.776	0.001	158032	39436				
C32	9.726	-0.004	204424	200858				
C34	10.164	-0.003	219294	141700				
Filter Peak	13.970	-0.003	15114	5260				
C36	10.578	-0.003	210164	104564				
C38	10.990	0.001	167544	83266				
C40	11.459	-0.000	104690	57072				
o-terph	6.174	0.007	3070	1055				
Triacon Surr	9.263	-0.026	2341627	1948565	NAS DIES	(C10-C24)	2883231	16.8

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	1055	0.0
Triacontane	1948565	11.2 M

M Indicates the peak was manually integrated

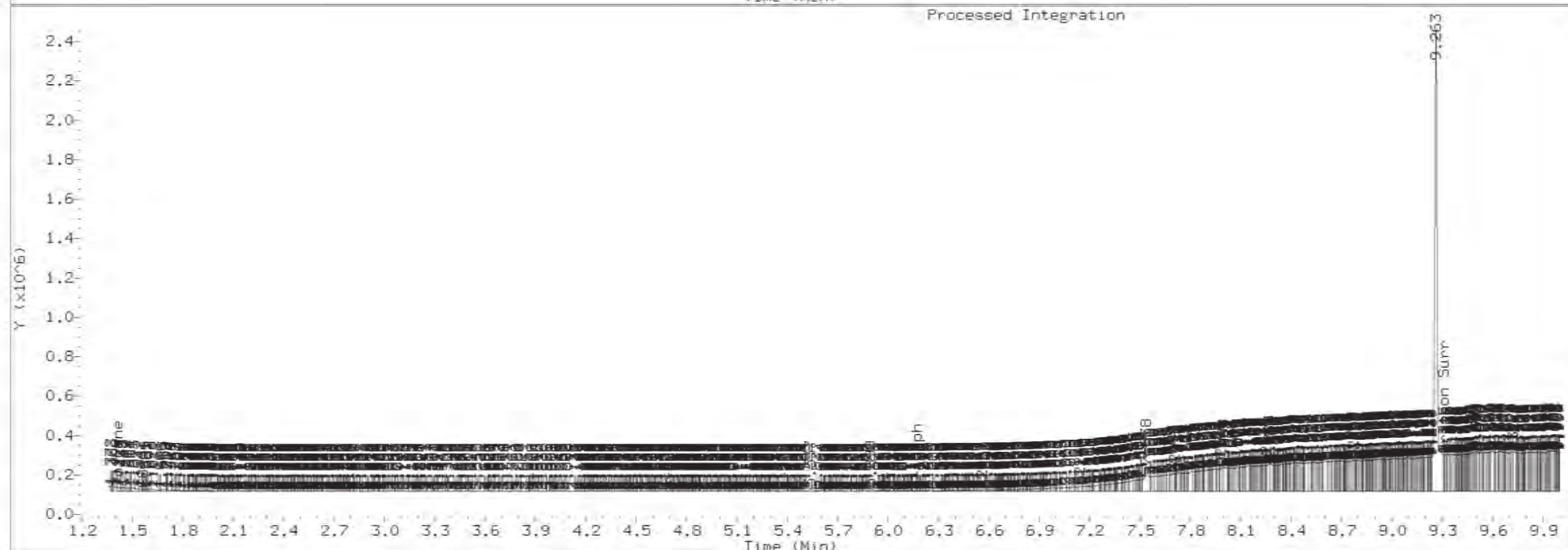
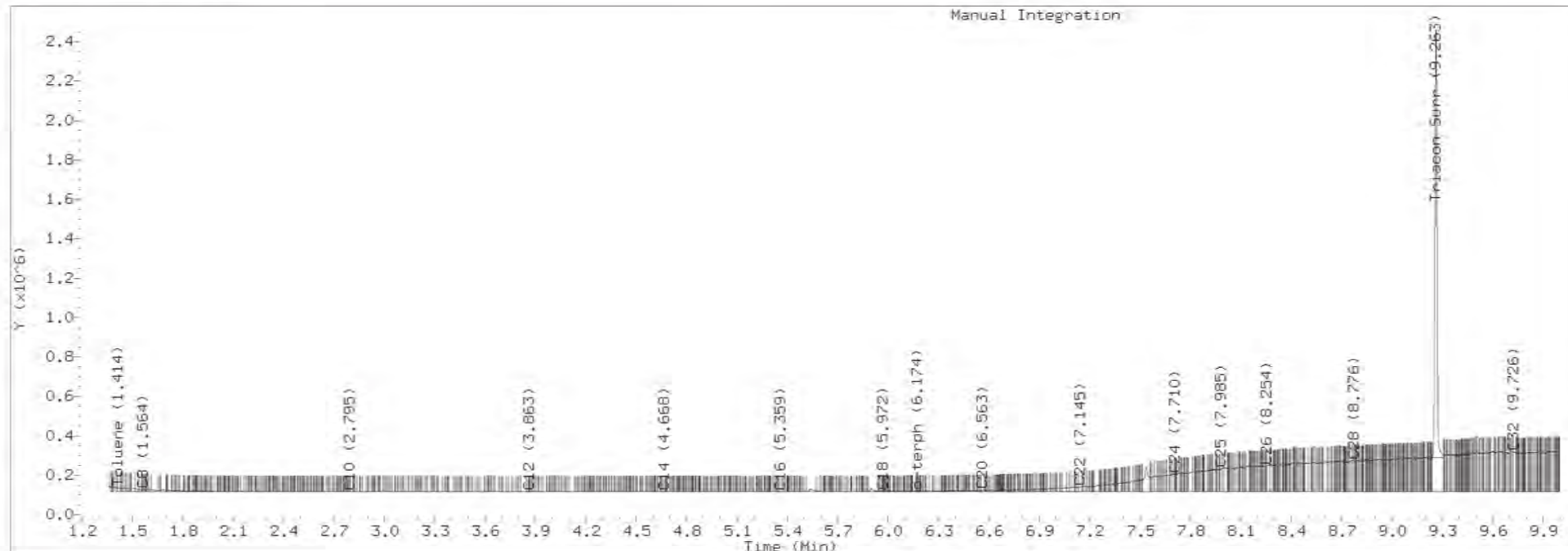
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0627.D Injection: 06-JAN-2022 19:23

Lab ID:SKA0028-CAL8

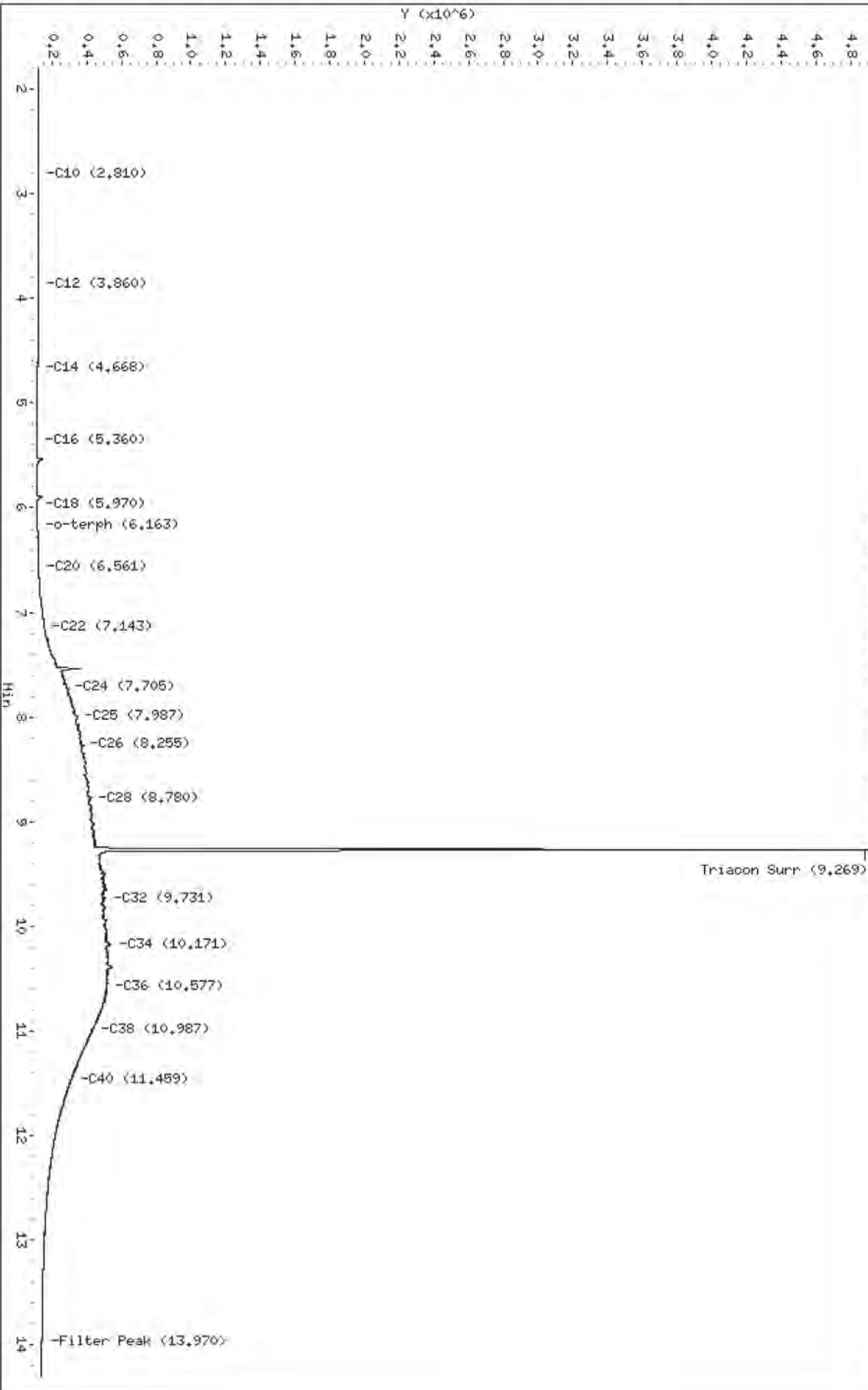


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Date: 06-JAN-2022 19:43
Client ID:
Sample Info: SKA0028-CAL9

Column phase: RTX-1

Instrument: fid4s.1
Operator: TMC
Column diameter: 0.25

\\target\share\chem2\fid4s.1\20220106.b\42240628.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0628.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL9
Client ID:
Injection: 06-JAN-2022 19:43
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

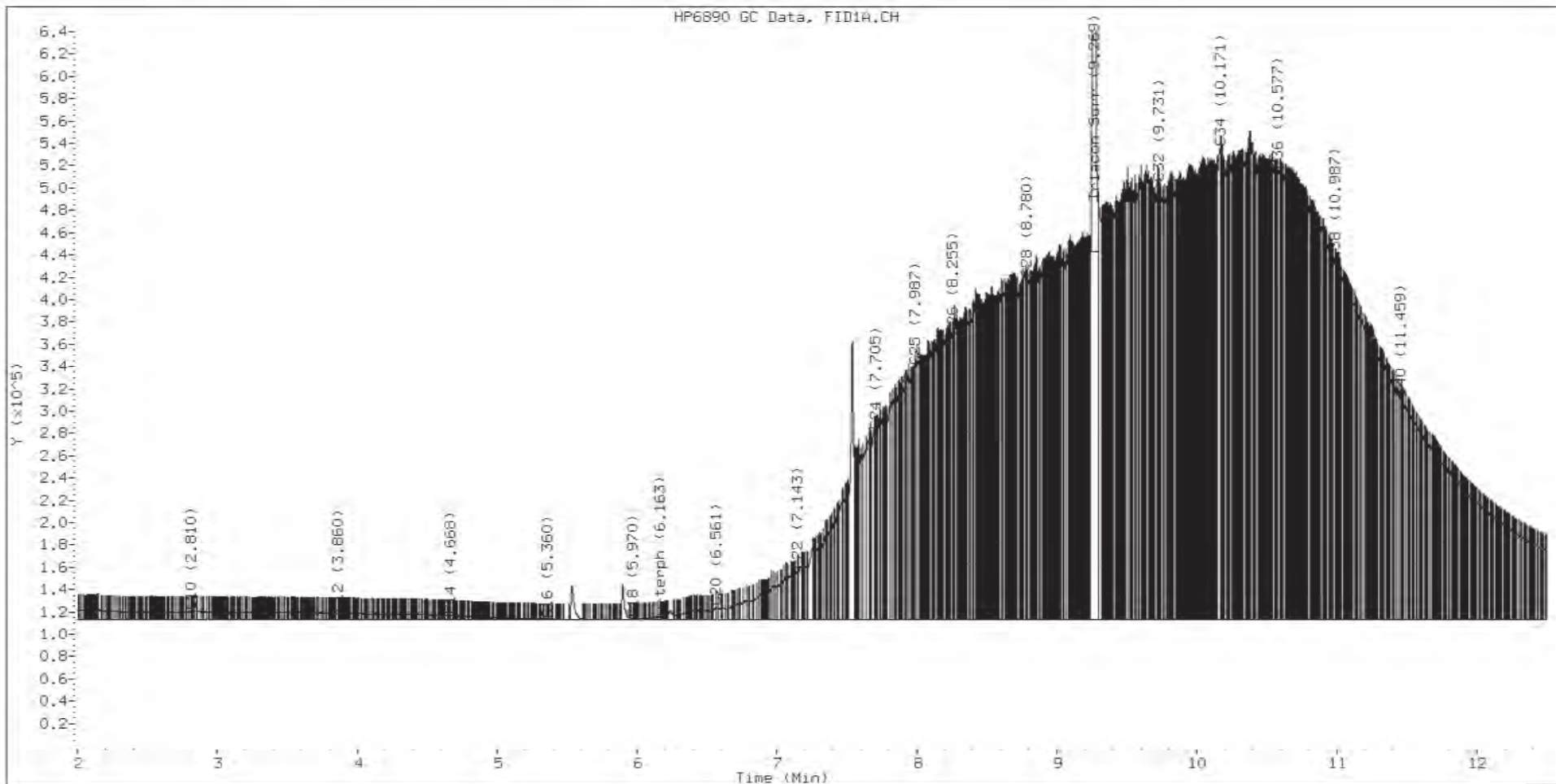
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.561	-0.005	18899	18490	WATPHD	(C12-C24)	5267715	36.1
C10	2.810	0.009	7809	6657	WATPHM	(C24-C38)	65361242	493.0
C12	3.860	0.002	6145	3630	AK102	(C10-C25)	7695397	44.7
C14	4.668	-0.000	3930	3869	AK103	(C25-C36)	54505288	551.1
C16	5.360	0.003	880	170	OR.DIES	(C10-C28)	21861512	125.8
C18	5.970	-0.002	1438	845				
C20	6.561	0.002	11665	15498				
C22	7.143	0.002	44022	42387				
C24	7.705	-0.003	169267	59011				
C25	7.987	0.001	227115	166595				
C26	8.255	-0.002	254374	63387				
C28	8.780	0.005	305712	121521				
C32	9.731	0.002	392327	135919				
C34	10.171	0.004	423466	189821				
Filter Peak	13.970	-0.003	28198	15418				
C36	10.577	-0.004	403448	160577				
C38	10.987	-0.002	321415	144011				
C40	11.459	-0.001	199069	49536				
o-terph	6.163	-0.004	2391	1211				
Triacon Surr	9.269	-0.021	4456889	3832767	NAS DIES	(C10-C24)	5689375	33.1

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	1211	0.0
Triacotane	3832767	22.0 M

M Indicates the peak was manually integrated

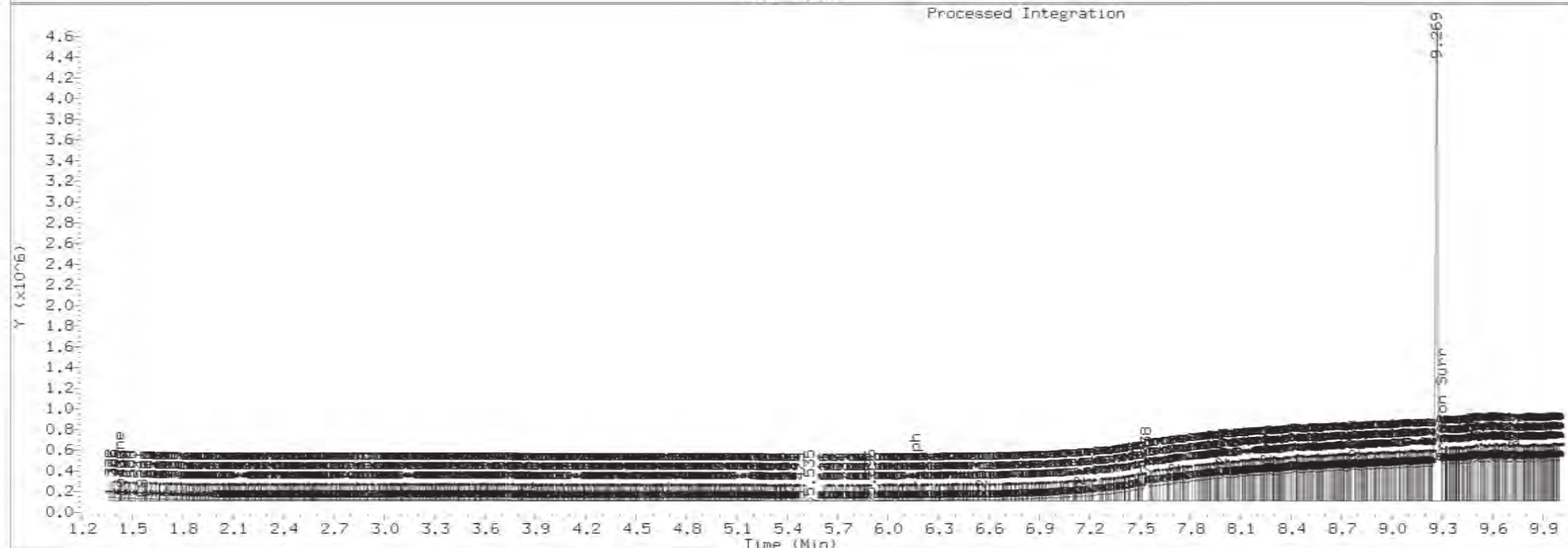
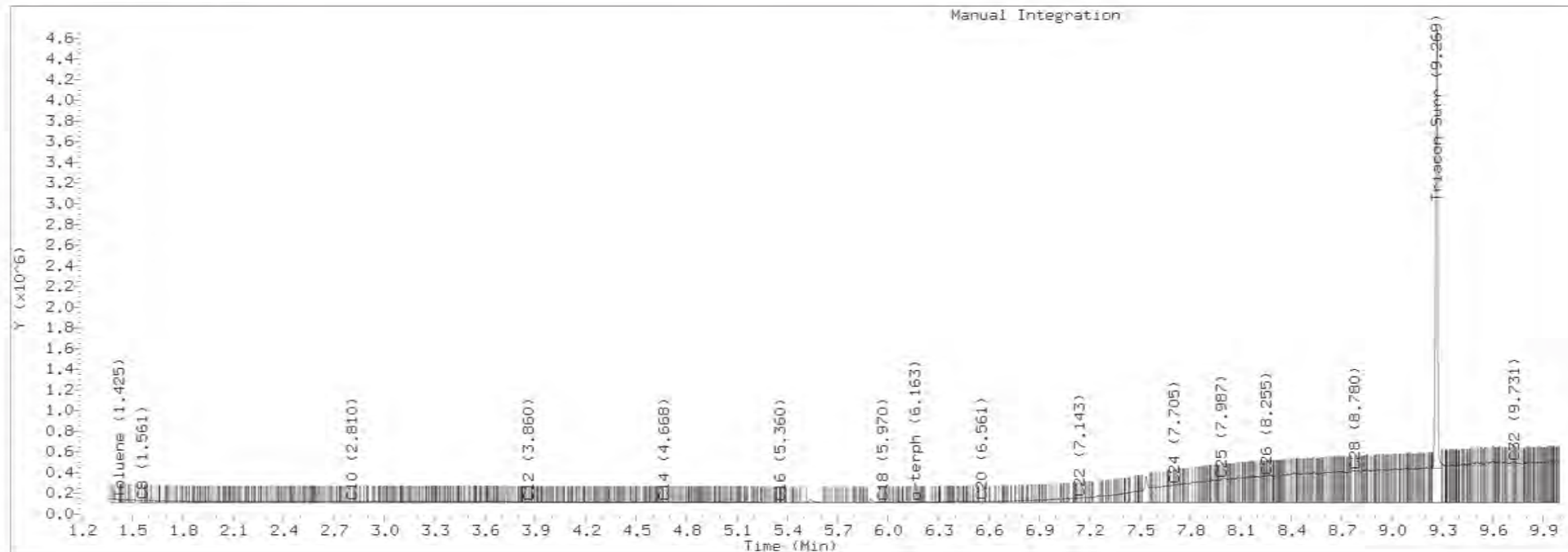
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0628.D Injection: 06-JAN-2022 19:43

Lab ID:SKA0028-CAL9

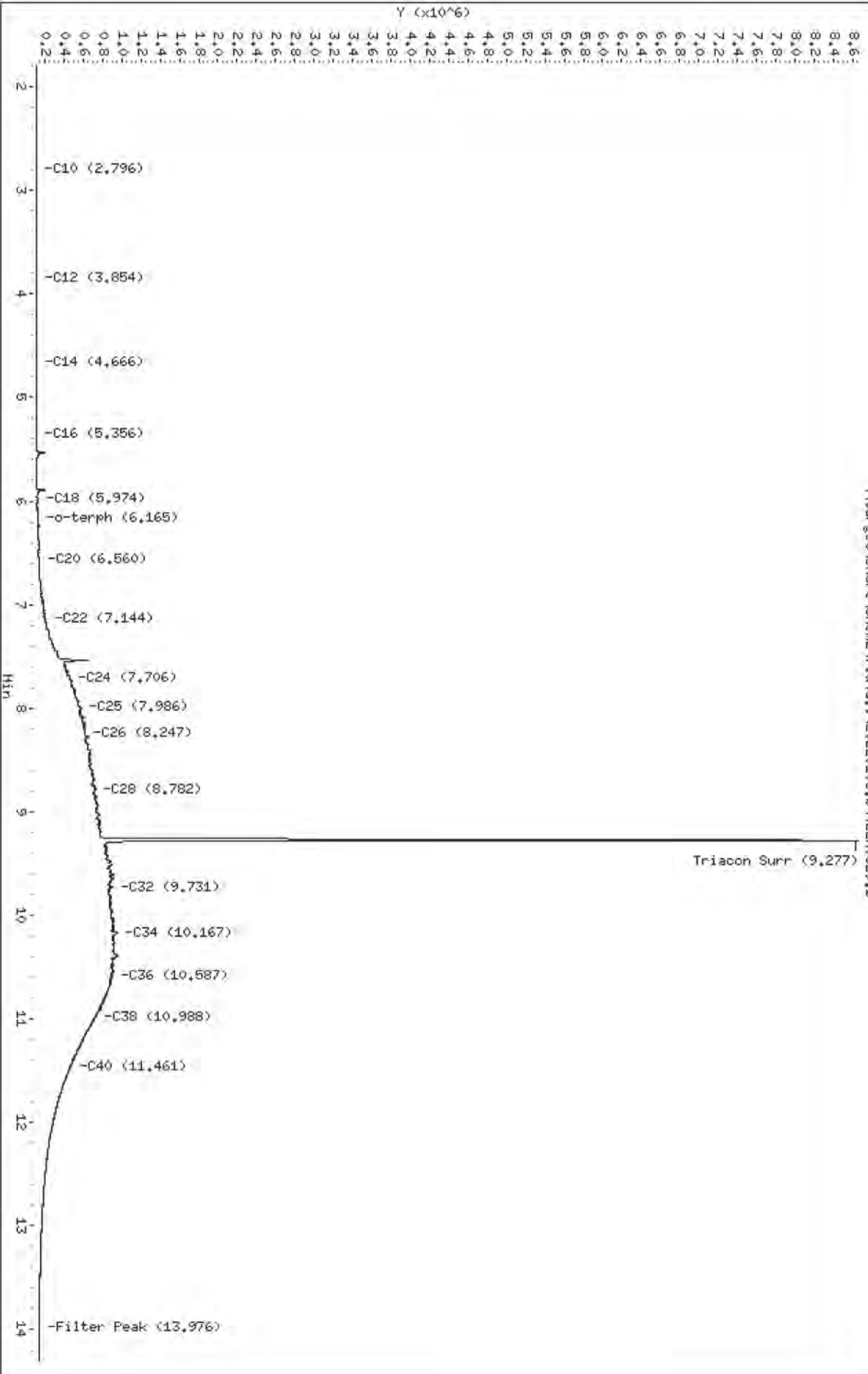


Data File: \\target\share\chem2\fid4s.1\20220106.b\42240629.D
Date: 06-JAN-2022 20:02
Client ID:
Sample Info: SKA0028-DQLA

Column phase: RTX-1

Instrument: fid4s.1
Operator: TMC
Column diameter: 0.25

\\target\share\chem2\fid4s.1\20220106.b\42240629.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0629.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALA
Client ID:
Injection: 06-JAN-2022 20:02
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

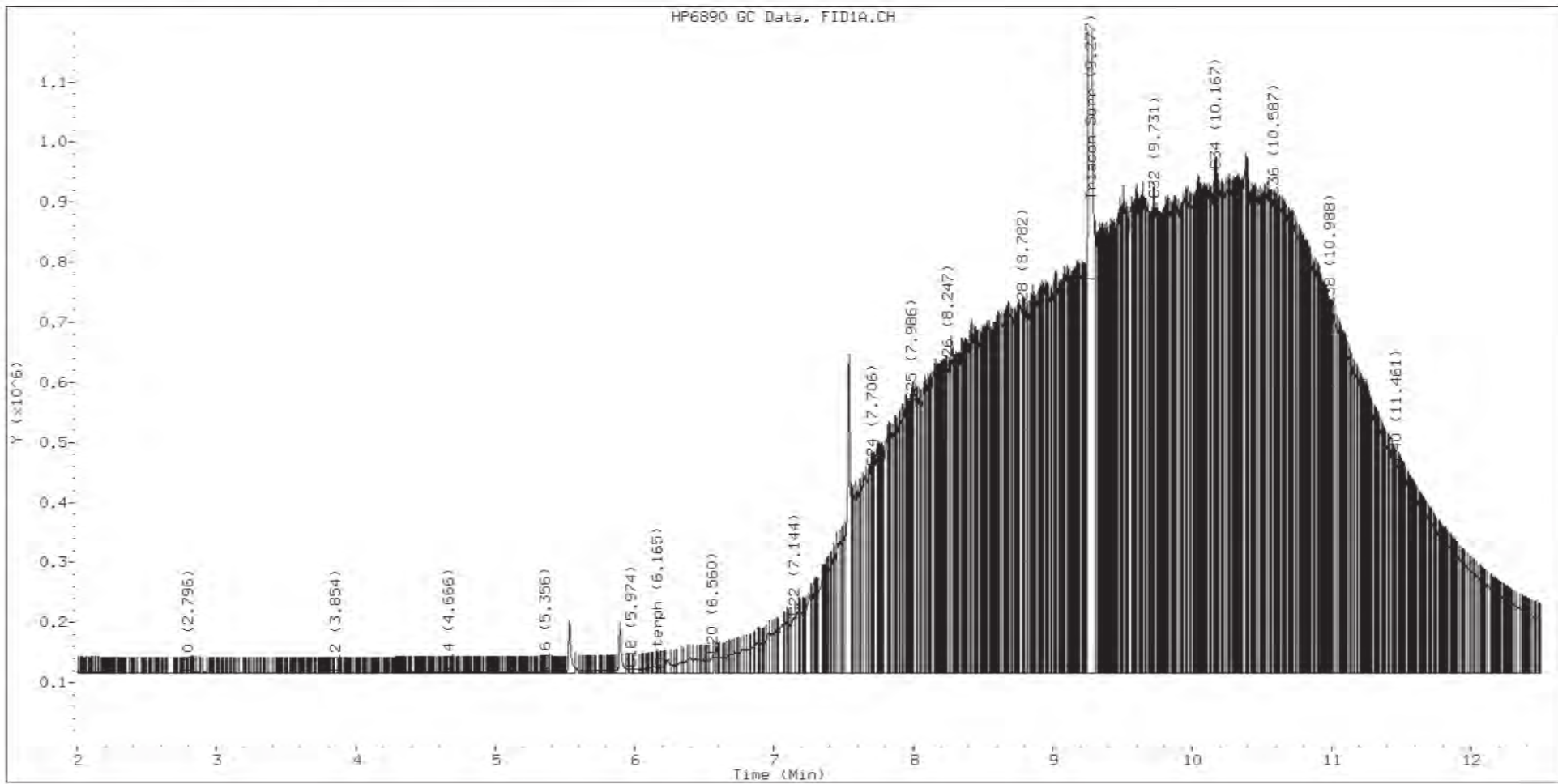
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.566	0.000	11101	8632	WATPHD	(C12-C24)	10727647	73.6
C10	2.796	-0.005	576	147	WATPHM	(C24-C38)	129320360	975.4
C12	3.854	-0.005	1107	956	AK102	(C10-C25)	14842212	86.2
C14	4.666	-0.002	2470	1298	AK103	(C25-C36)	108544248	1097.4
C16	5.356	-0.001	3529	1197	OR.DIES	(C10-C28)	43178118	248.5
C18	5.974	0.002	7530	7872				
C20	6.560	0.000	29424	44604				
C22	7.144	0.003	93274	142646				
C24	7.706	-0.003	342850	102299				
C25	7.986	0.000	451931	245156				
C26	8.247	-0.010	508762	377501				
C28	8.782	0.007	601806	120120				
C32	9.731	0.001	789145	579688				
C34	10.167	0.000	836380	250168				
Filter Peak	13.976	0.003	27826	13801				
C36	10.587	0.006	793648	511126				
C38	10.988	-0.001	611295	302860				
C40	11.461	0.002	351554	139850				
o-terph	6.165	-0.002	9745	4761				
Triacon Surr	9.277	-0.012	7887730	7740915	NAS DIES	(C10-C24)	10771308	62.7

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	4761	0.0
Triacontane	7740915	44.4 M

M Indicates the peak was manually integrated

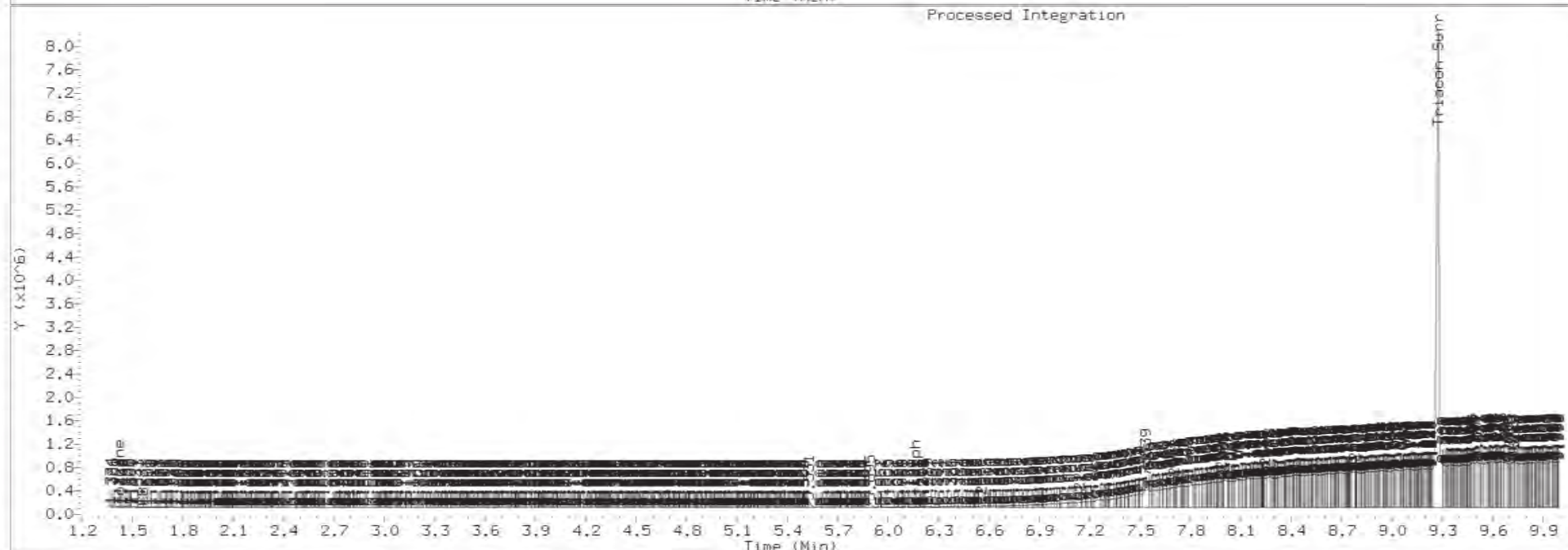
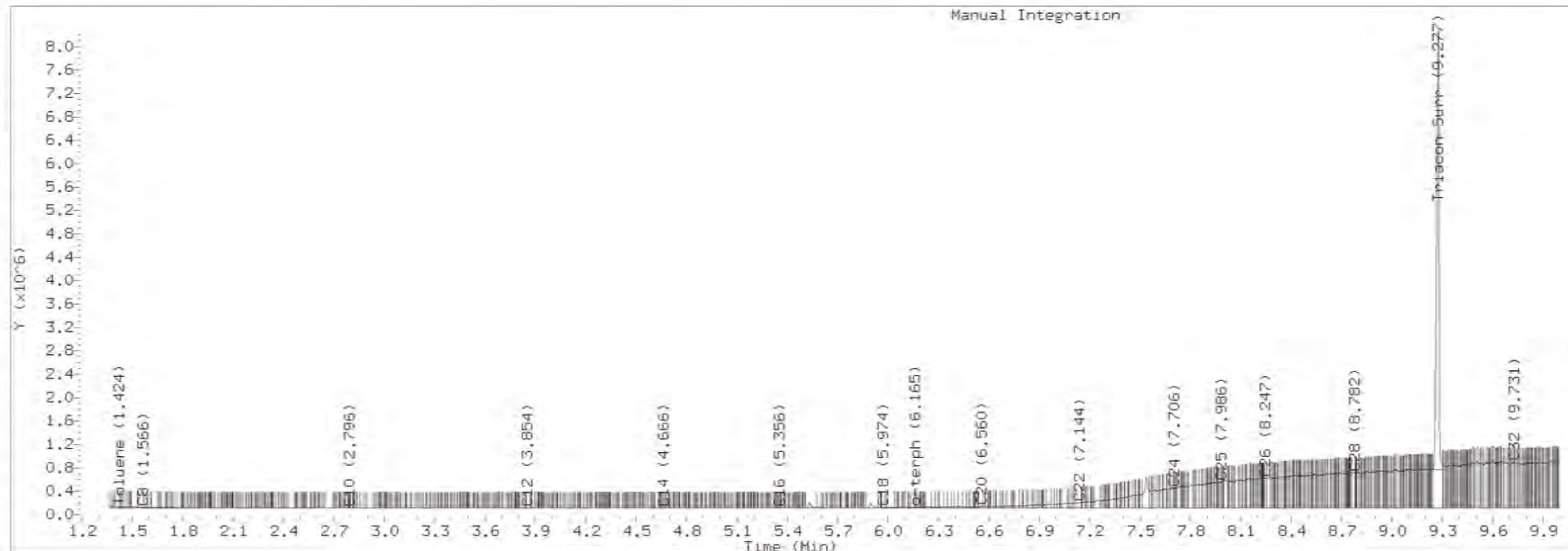
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0629.D Injection: 06-JAN-2022 20:02

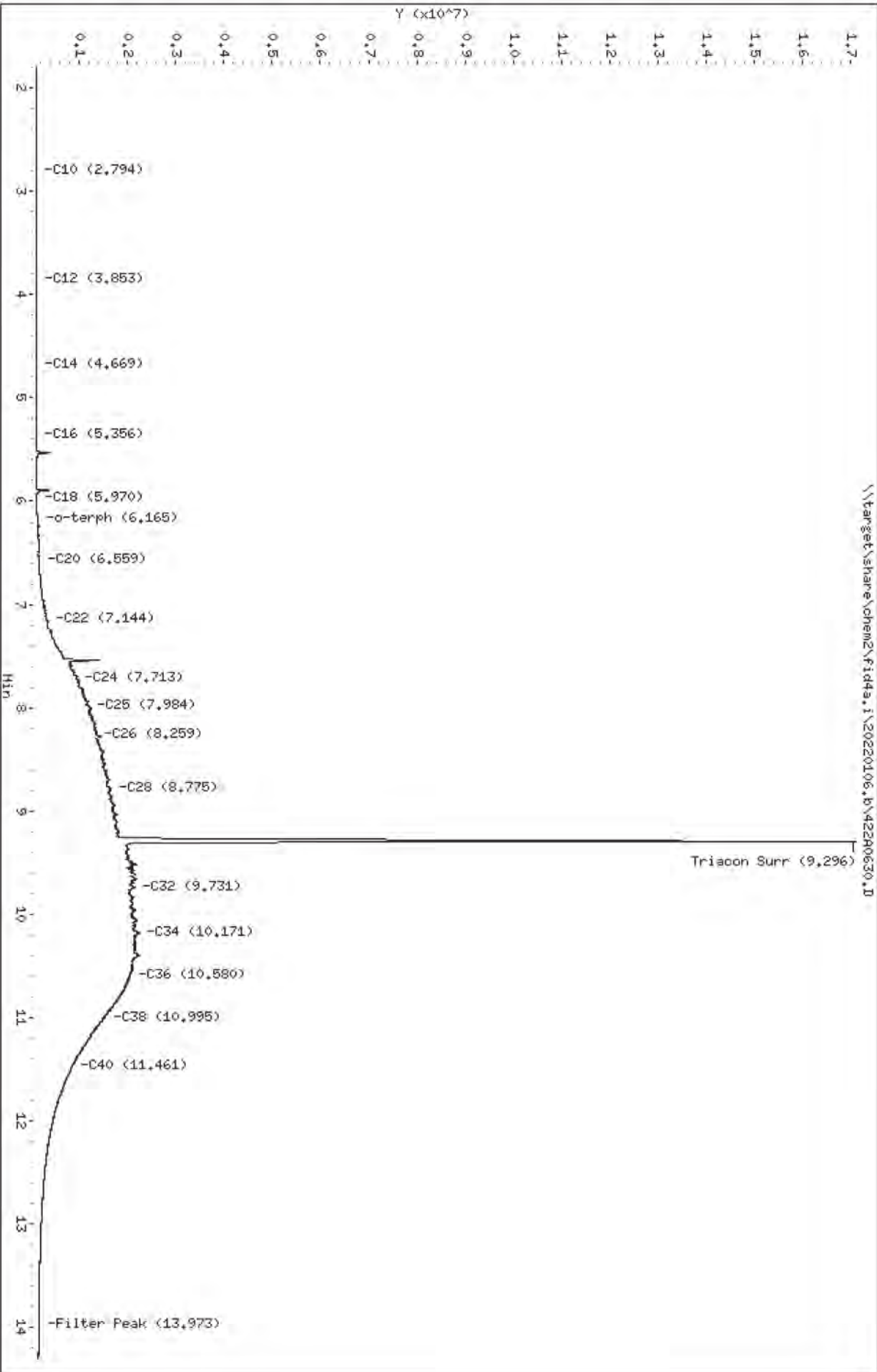
Lab ID:SKA0028-CALA



Data File: \\target\share\chem2\fid4s.1\20220106.b\42240630.D
Date: 06-JUN-2022 20:22
Client ID:
Sample Info: SKA0028-CALB

Column phase: RTX-1

Instrument: fid4s.1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0630.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALB
Client ID:
Injection: 06-JAN-2022 20:22
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

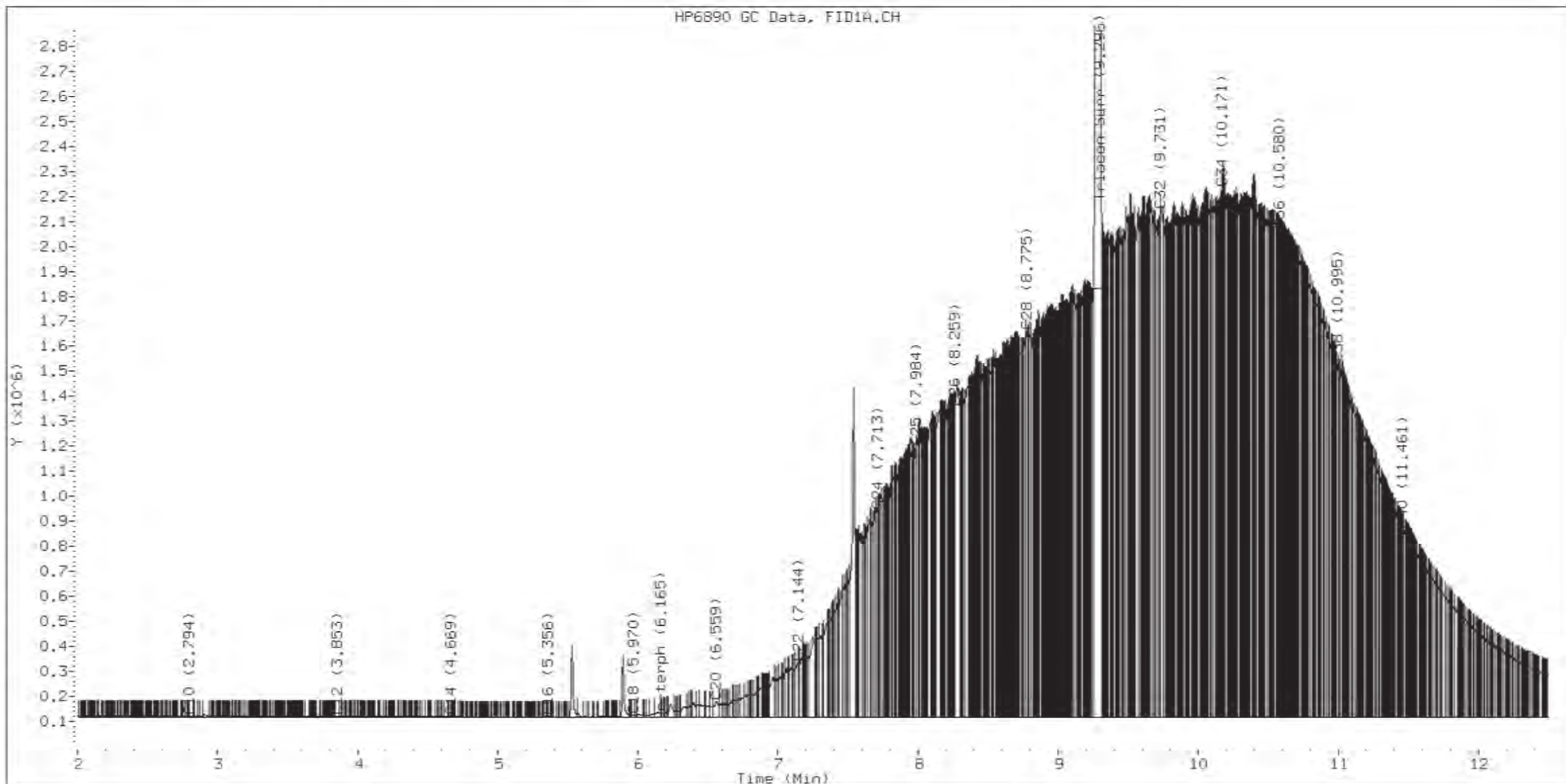
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.577	0.011	17258	4301	WATPHD	(C12-C24)	25178731	172.8
C10	2.794	-0.008	5092	3608	WATPHM	(C24-C38)	324449124	2447.2
C12	3.853	-0.006	5678	7022	AK102	(C10-C25)	35400273	205.5
C14	4.669	0.001	3839	758	AK103	(C25-C36)	273940795	2769.6
C16	5.356	-0.000	3278	2699	OR.DIES	(C10-C28)	105094526	604.8
C18	5.970	-0.002	10714	10162				
C20	6.559	-0.000	64664	142222				
C22	7.144	0.002	219141	252458				
C24	7.713	0.004	827562	247062				
C25	7.984	-0.003	1080011	687511				
C26	8.259	0.002	1238176	370748				
C28	8.775	-0.000	1545429	993360				
C32	9.731	0.001	2028162	997421				
C34	10.171	0.004	2118052	1355483				
Filter Peak	13.973	-0.000	48608	21788				
C36	10.580	-0.001	1948503	972417				
C38	10.995	0.006	1414419	841893				
C40	11.461	0.001	751652	187506				
o-terph	6.165	-0.002	15801	3901				
Triacon Surr	9.296	0.006	15269043	19868141	NAS DIES	(C10-C24)	25505234	148.5

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	3901	0.0
Triacotane	19868141	114.0 M

M Indicates the peak was manually integrated

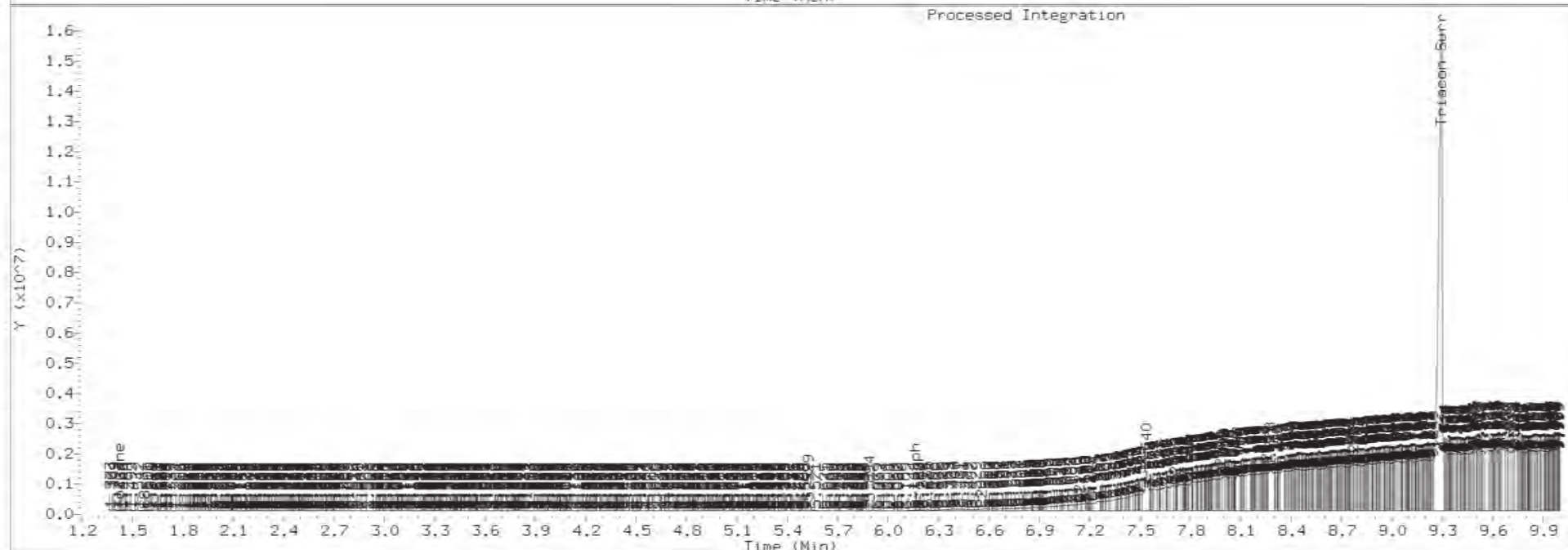
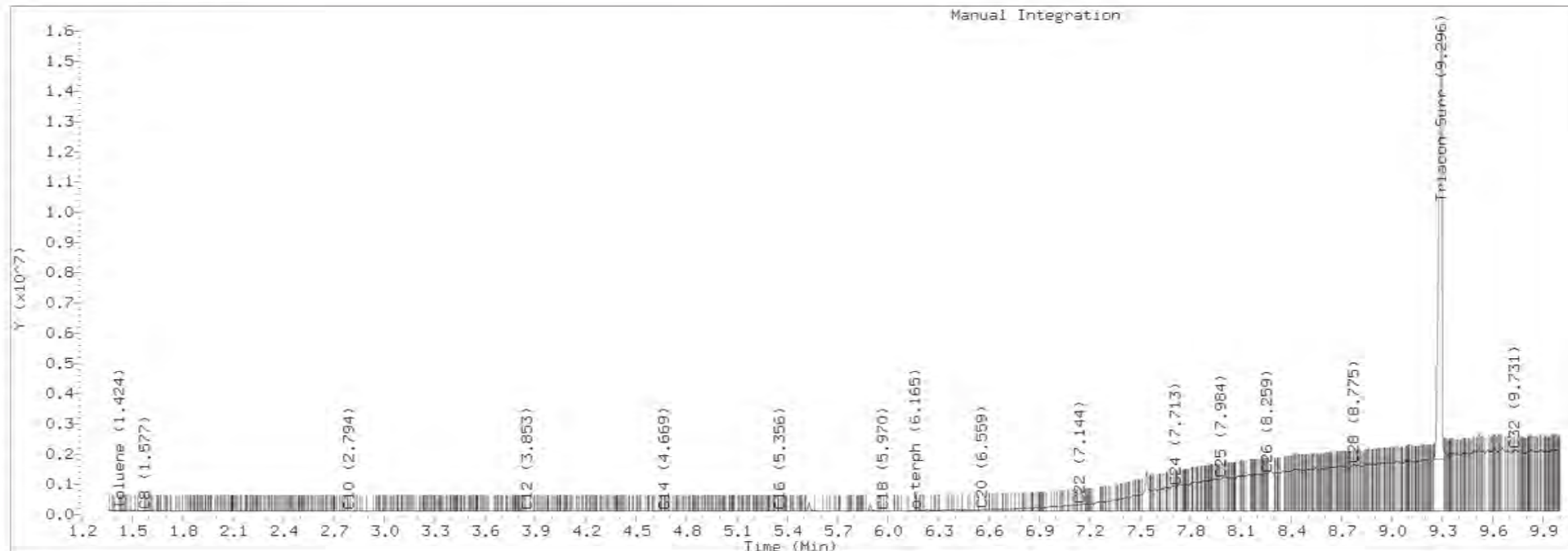
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0630.D Injection: 06-JAN-2022 20:22

Lab ID:SKA0028-CALB

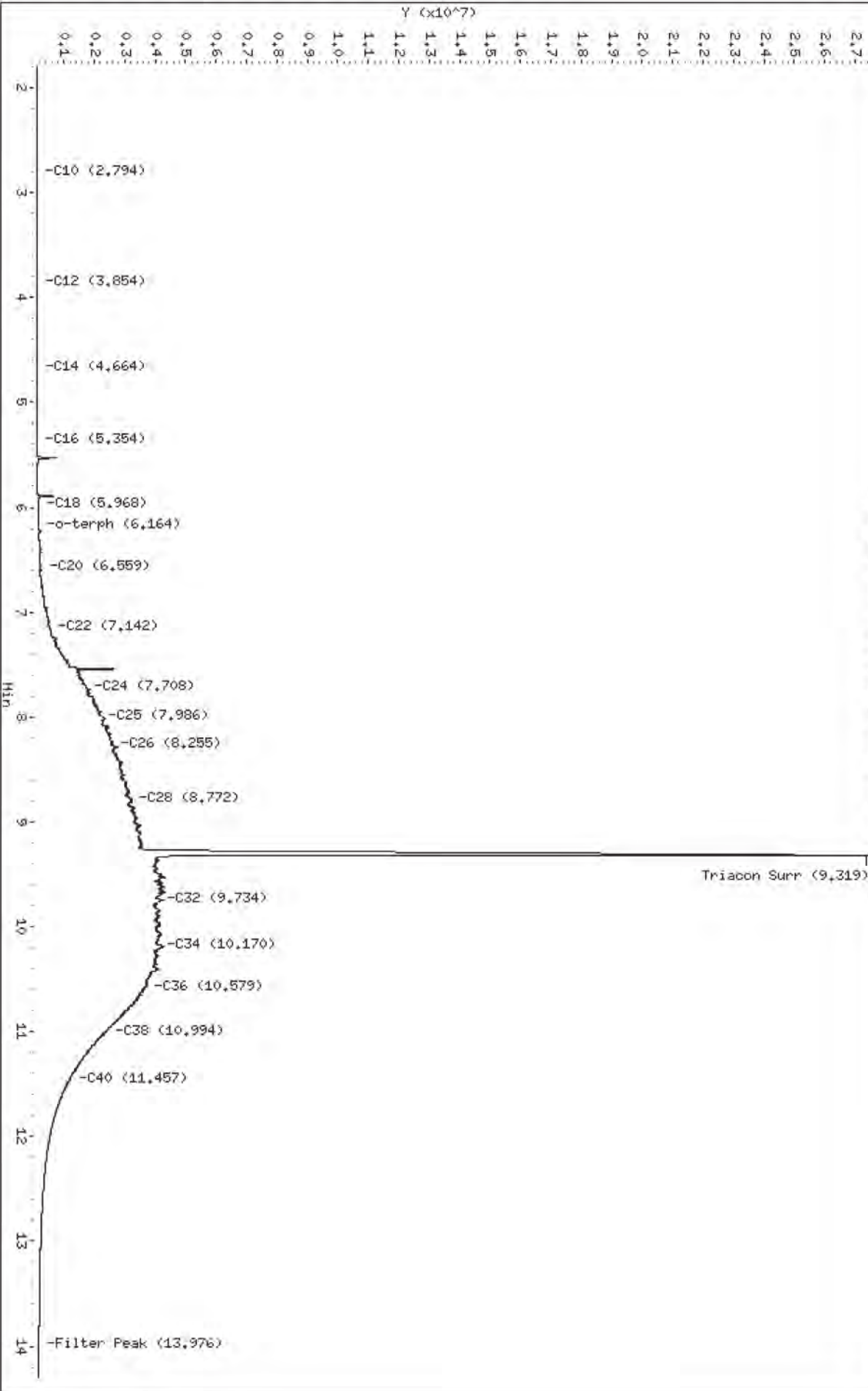


Data File: \\target\share\chem2\fid4s,1\20220106,bv42240631.D
Date: 06-JAN-2022 20:42
Client ID:
Sample Info: SKA0028-DALC

Column phase: RTX-1

Instrument: fid4s,1
Operator: TMC
Column diameter: 0.25

\\target\share\chem2\fid4s,1\20220106,bv42240631.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0631.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALC
Client ID:
Injection: 06-JAN-2022 20:42
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

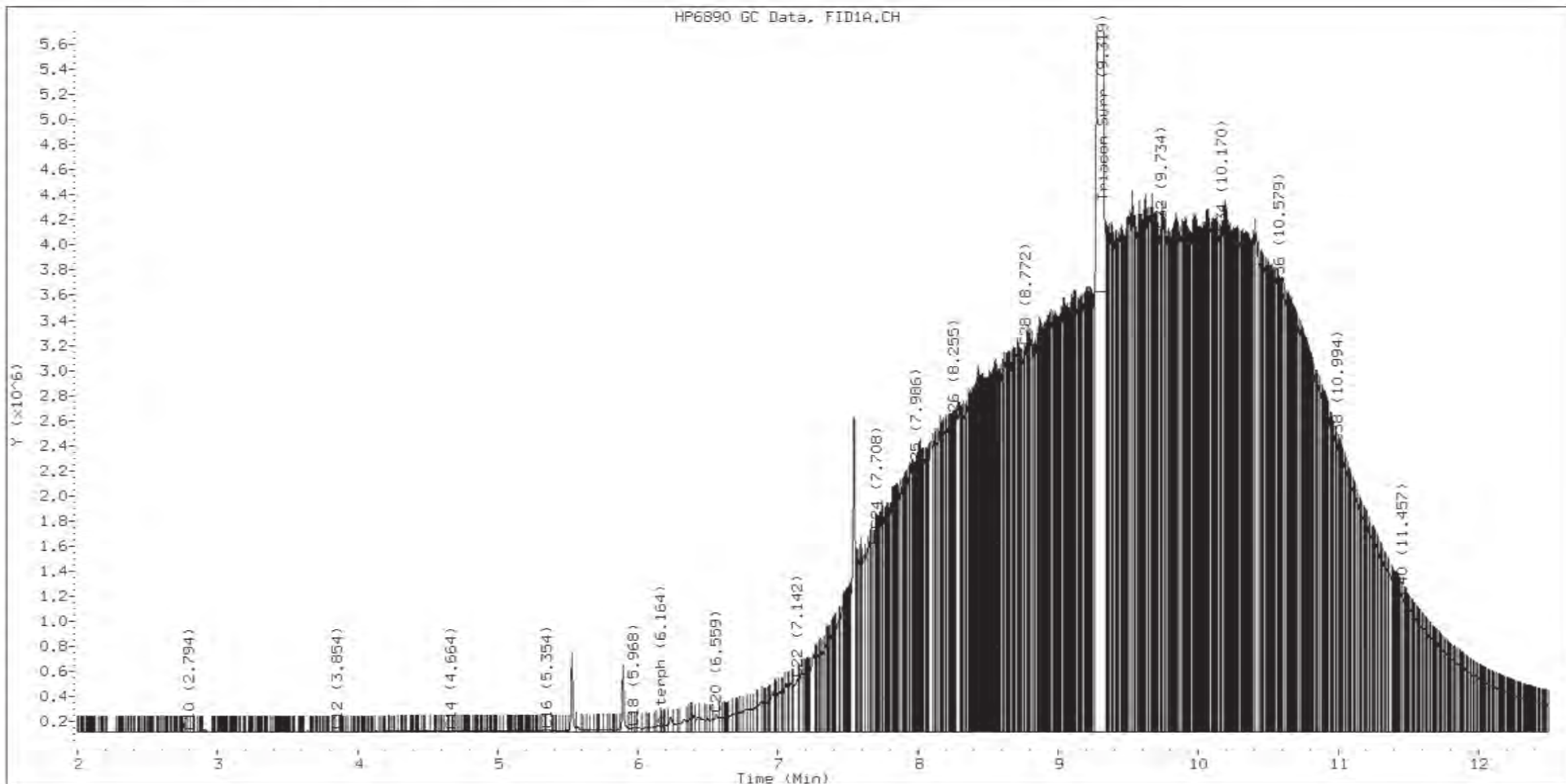
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.567	0.001	12437	6794	WATPHD	(C12-C24)	50023505	343.2
C10	2.794	-0.007	1603	1382	WATPHM	(C24-C38)	629138264	4745.4
C12	3.854	-0.004	5247	5695	AK102	(C10-C25)	69619933	404.2
C14	4.664	-0.004	10564	11502	AK103	(C25-C36)	540174647	5461.3
C16	5.354	-0.002	16087	34954	OR.DIES	(C10-C28)	208310669	1198.8
C18	5.968	-0.004	32949	39919				
C20	6.559	-0.000	138972	310447				
C22	7.142	0.001	427301	781717				
C24	7.708	-0.001	1605305	638932				
C25	7.986	-0.000	2072035	718075				
C26	8.255	-0.002	2467694	982346				
C28	8.772	-0.004	3074685	1975887				
C32	9.734	0.005	3999709	2176432				
C34	10.170	0.003	3982476	2371685				
Filter Peak	13.976	0.003	62326	40134				
C36	10.579	-0.003	3557173	2116083				
C38	10.994	0.006	2297213	1137312				
C40	11.457	-0.003	1081035	1006449				
o-terph	6.164	-0.003	41429	10336				
Triacon Surr	9.319	0.029	23838567	40429932	NAS DIES	(C10-C24)	50155994	292.0

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	10336	0.1
Triacontane	40429932	232.1 M

M Indicates the peak was manually integrated

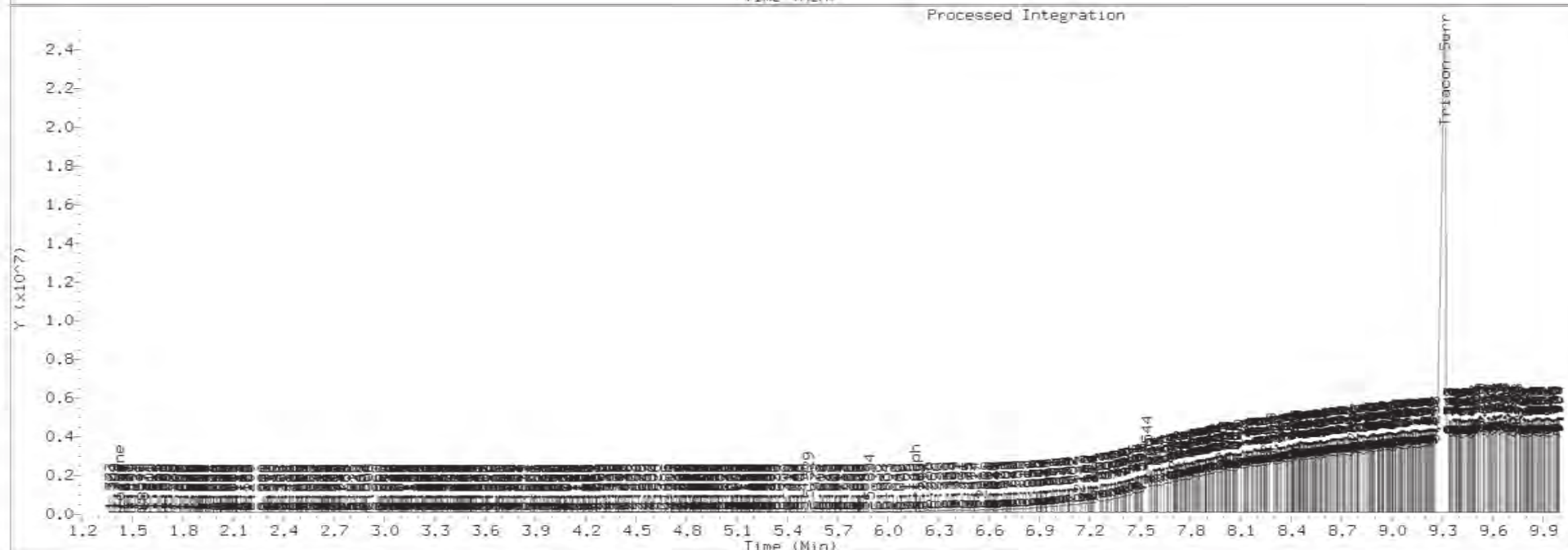
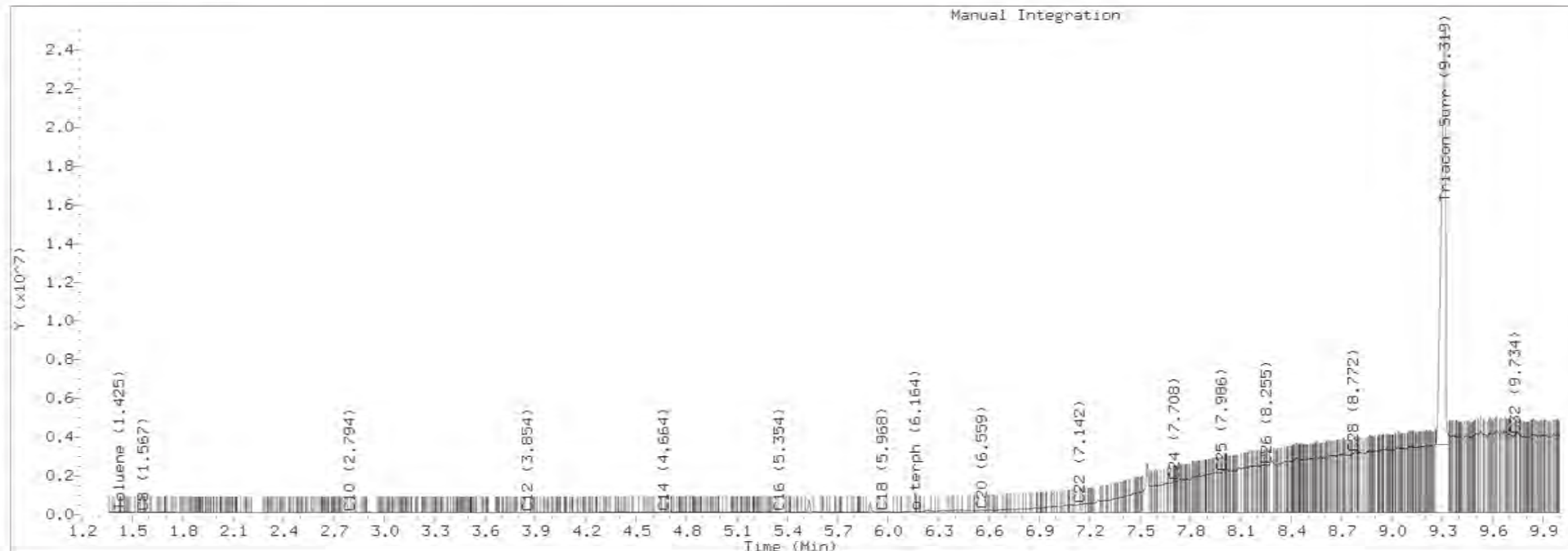
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0631.D Injection: 06-JAN-2022 20:42

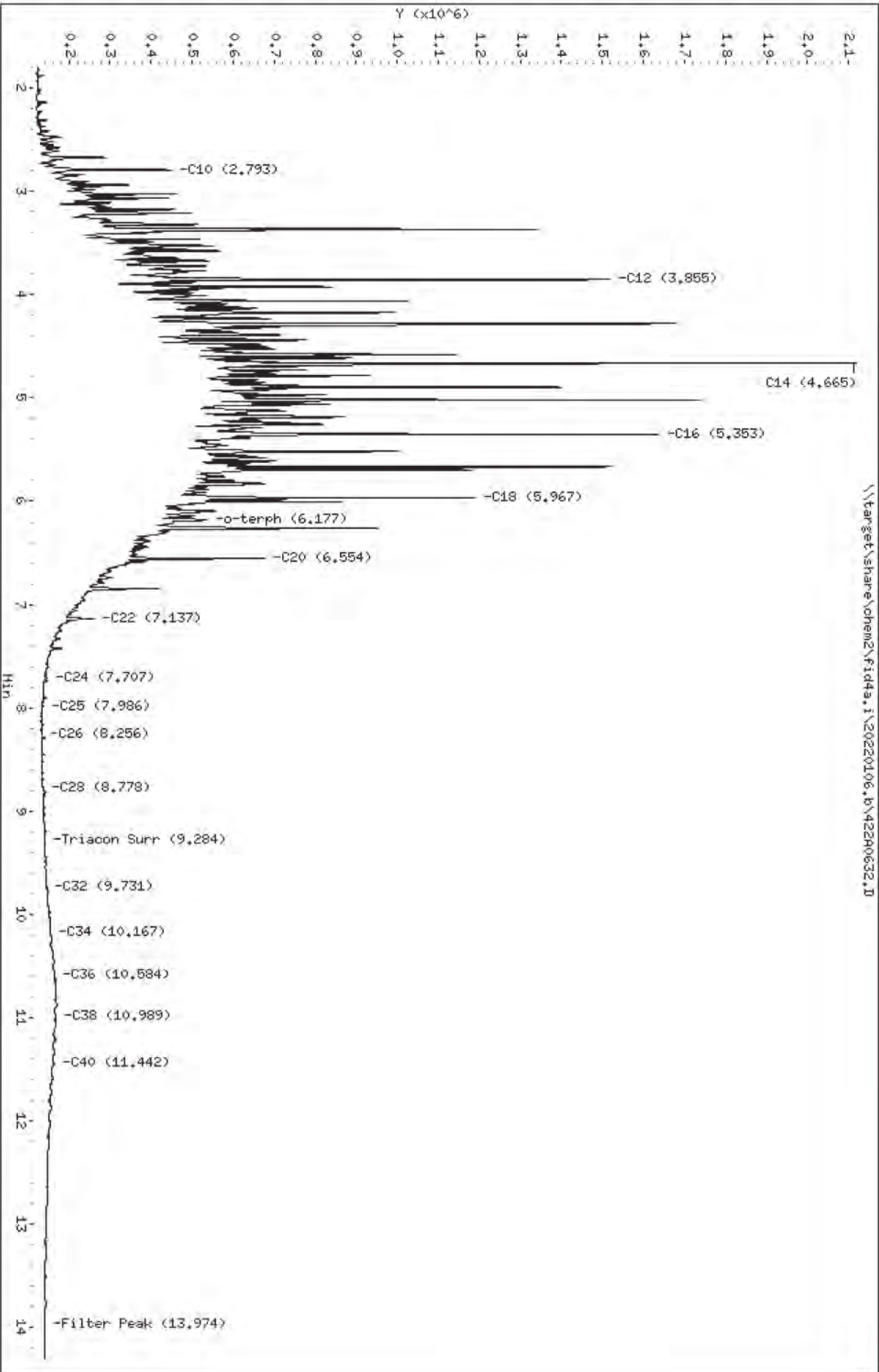
Lab ID:SKA0028-CALC



Data File: \\target\share\chem2\fid4s,1\20220106,6\42240632.D
Date: 06-JAN-2022 21:02
Client ID:
Sample Info: SKA0028-SCV1

Column phase: RTX-1

Instrument: fid4s,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0632.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-SCV1
Client ID:
Injection: 06-JAN-2022 21:02
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

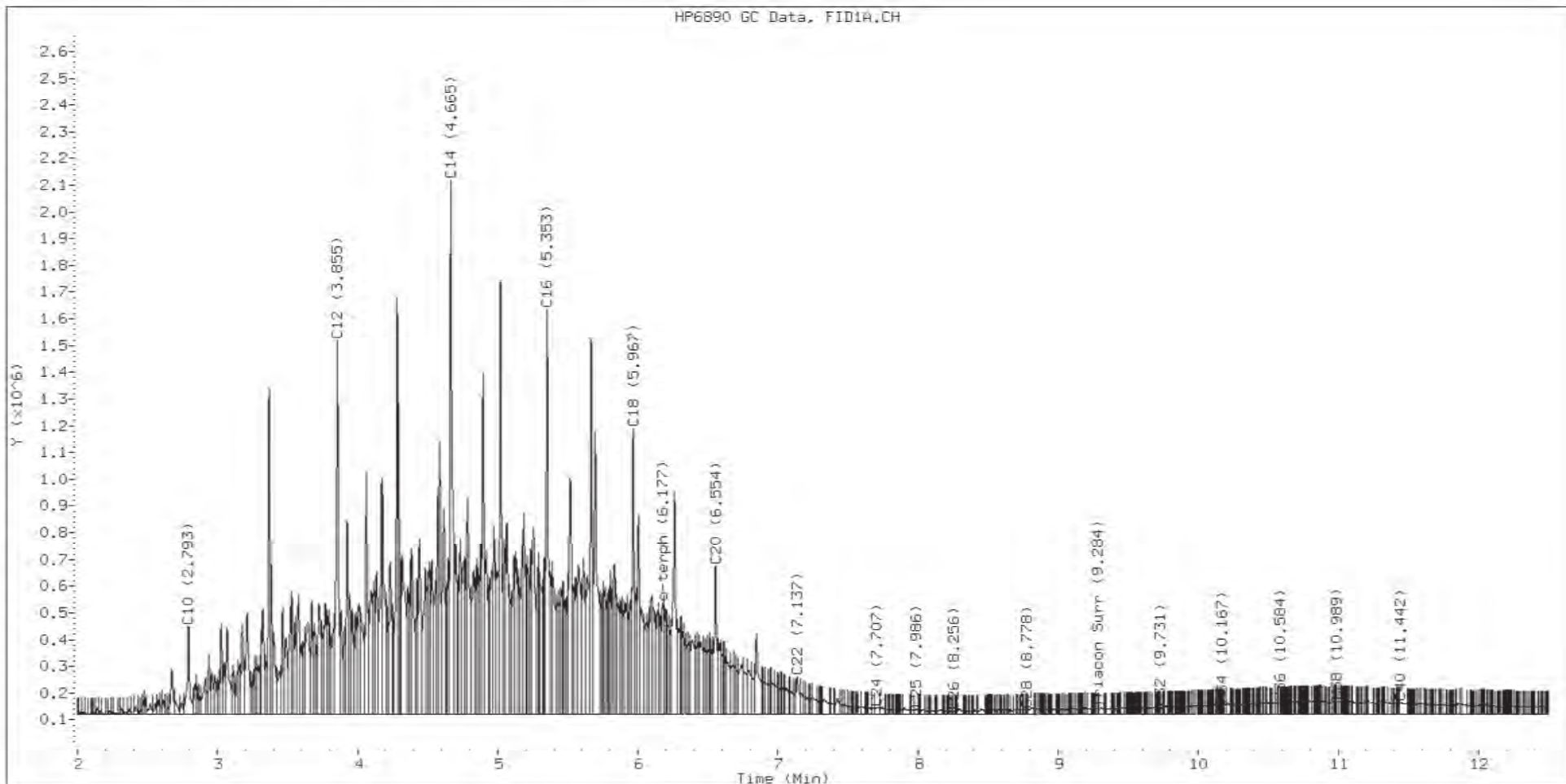
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.554	-0.012	13447	19907	WATPHD	(C12-C24)	81818326	561.4
C10	2.793	-0.008	328700	402623	WATPHM	(C24-C38)	4903930	37.0
C12	3.855	-0.003	1398359	1541786	AK102	(C10-C25)	98237239	570.4
C14	4.665	-0.003	1998212	2275704	AK103	(C25-C36)	3617447	36.6
C16	5.353	-0.003	1514409	1842028	OR.DIES	(C10-C28)	98957633	569.5
C18	5.967	-0.005	1069816	1029152				
C20	6.554	-0.005	555197	666071				
C22	7.137	-0.004	141564	207118				
C24	7.707	-0.002	25196	52303				
C25	7.986	-0.000	18136	25237				
C26	8.256	-0.001	12963	11391				
C28	8.778	0.002	15805	6221				
C32	9.731	0.002	24227	8392				
C34	10.167	-0.000	33488	11671				
Filter Peak	13.974	0.001	19683	11641				
C36	10.584	0.003	44128	15372				
C38	10.989	0.001	46492	34691				
C40	11.442	-0.018	43094	144180				
o-terph	6.177	0.010	416300	426651				
Triacon Surr	9.284	-0.006	19261	10418	NAS DIES	(C10-C24)	98063156	571.0

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	426651	2.2
Triacontane	10418	0.1

M Indicates the peak was manually integrated

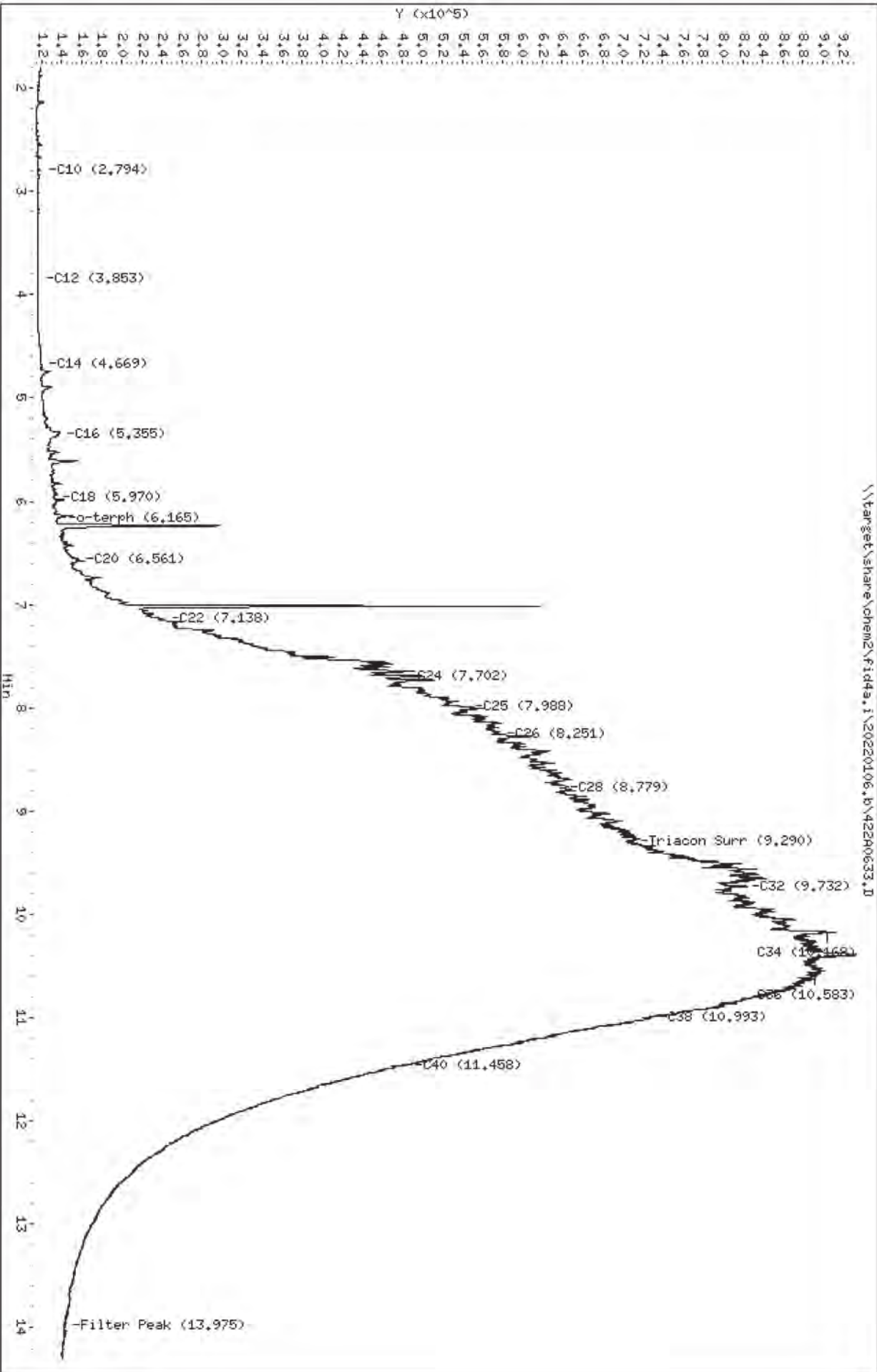
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



Data File: \\target\share\chem2\fid4s.1\20220106.b\42240633.D
Date: 06-JAN-2022 21:21
Client ID:
Sample Info: SKA0028-SCV2

Column phase: RTX-1

Instrument: fid4s.1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0633.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-SCV2
Client ID:
Injection: 06-JAN-2022 21:21
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

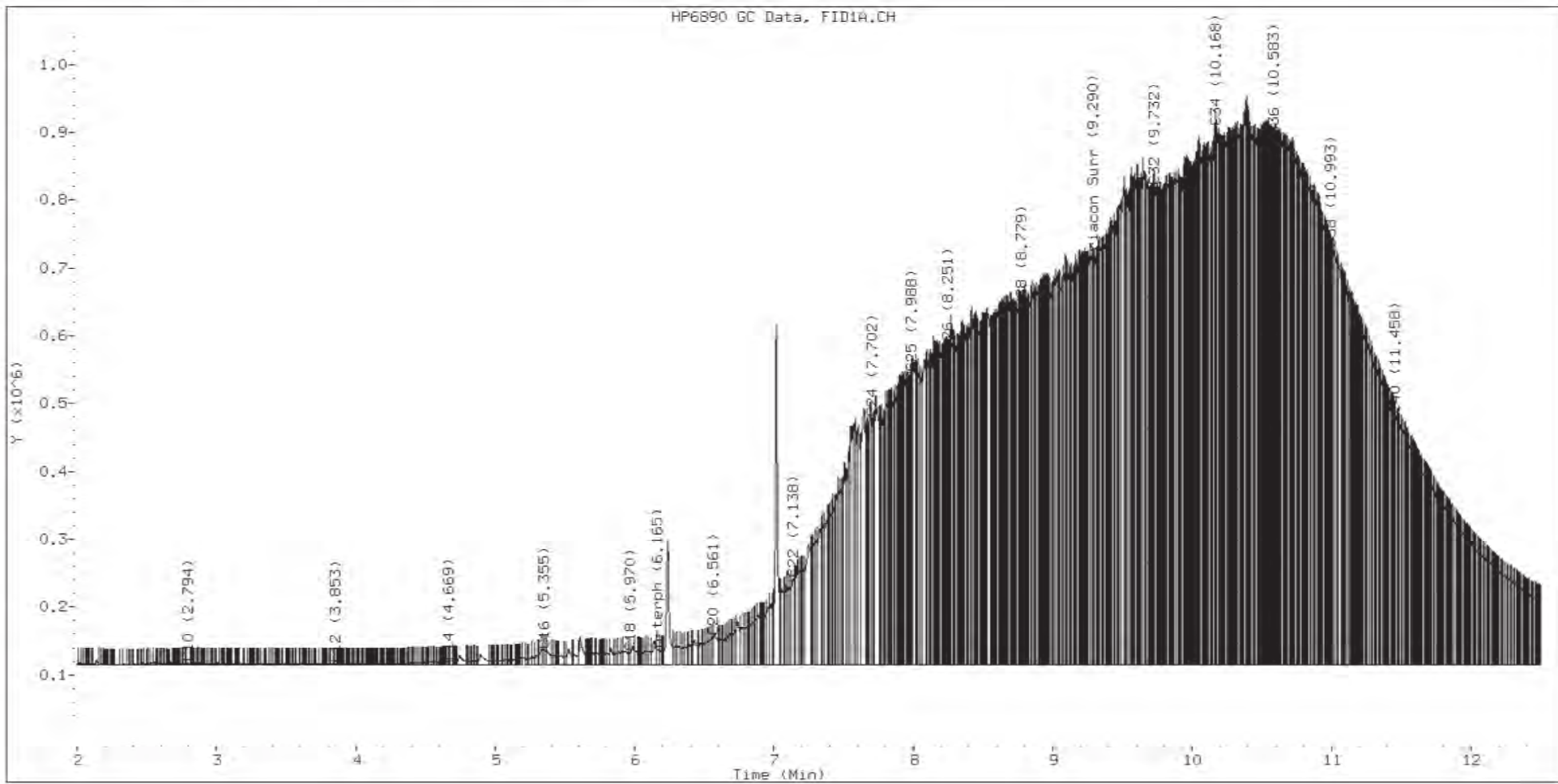
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.571	0.005	9397	3234	WATPHD	(C12-C24)	14056895	96.4
C10	2.794	-0.008	3468	3249	WATPHM	(C24-C38)	119954259	904.8
C12	3.853	-0.006	1998	1502	AK102	(C10-C25)	18142709	105.3
C14	4.669	0.001	4718	2557	AK103	(C25-C36)	98929750	1000.2
C16	5.355	-0.002	21381	13437	OR.DIES	(C10-C28)	43590146	250.9
C18	5.970	-0.003	18024	5393				
C20	6.561	0.002	41385	47221				
C22	7.138	-0.003	126282	164868				
C24	7.702	-0.007	364294	249450				
C25	7.988	0.002	429789	170231				
C26	8.251	-0.006	461561	275289				
C28	8.779	0.003	524231	157049				
C32	9.732	0.002	706043	454955				
C34	10.168	0.001	792309	274623				
Filter Peak	13.975	0.002	27946	6956				
C36	10.583	0.002	779610	310190				
C38	10.993	0.004	614371	153291				
C40	11.458	-0.002	369218	346346				
o-terph	6.165	-0.002	22790	28222				
Triacon Surr	9.290	-0.000	594134	295766	NAS DIES	(C10-C24)	14144817	82.4

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	28222	0.1
Triacontane	295766	1.7

M Indicates the peak was manually integrated

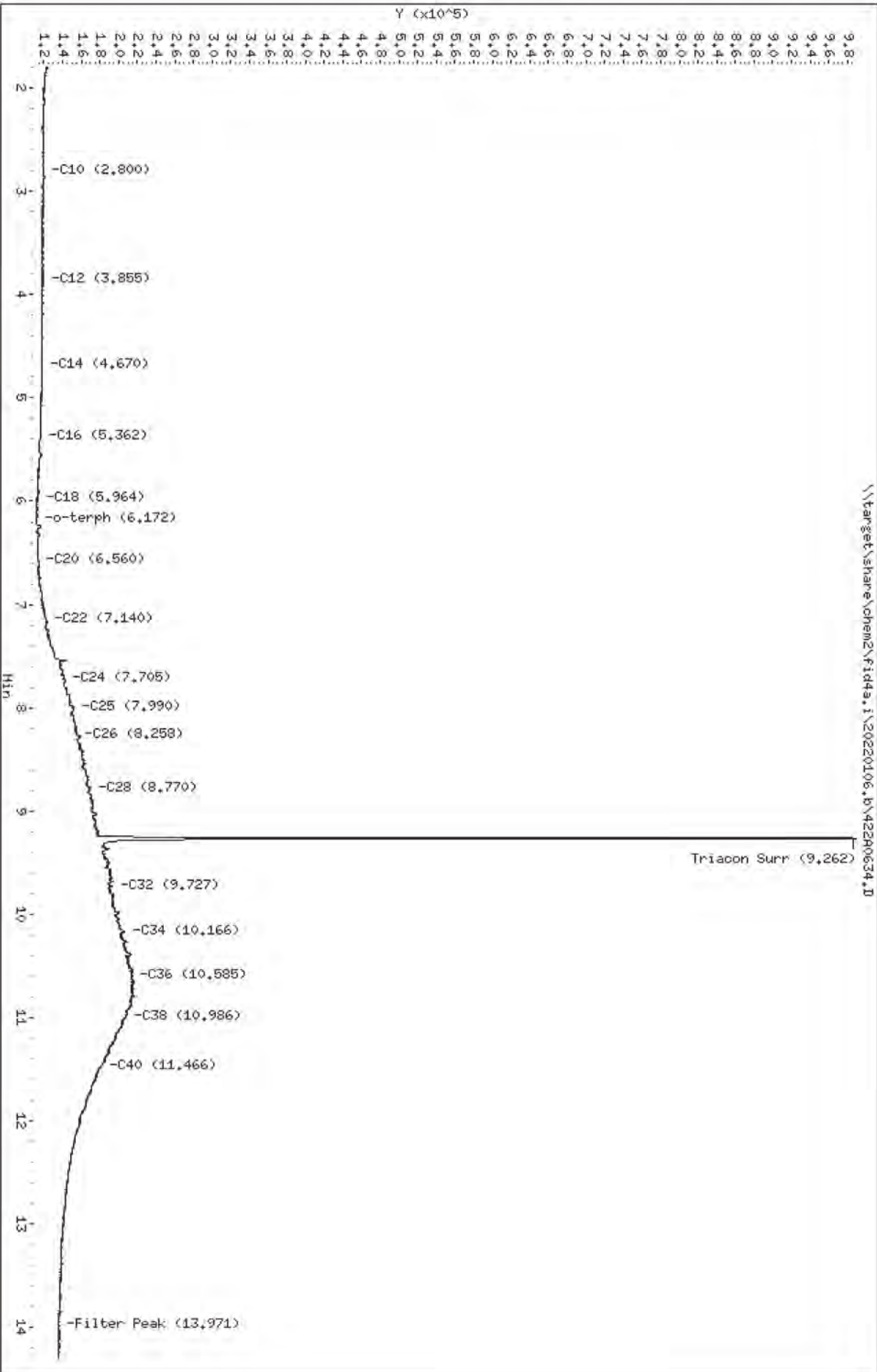
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



Data File: \\target\share\chem2\fid4s.1\20220106.b\42240634.D
Date: 06-JAN-2022 21:41
Client ID:
Sample Info: SKA0028-CALD

Column phase: RTX-1

Instrument: fid4s.1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0634.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALD
Client ID:
Injection: 06-JAN-2022 21:41
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

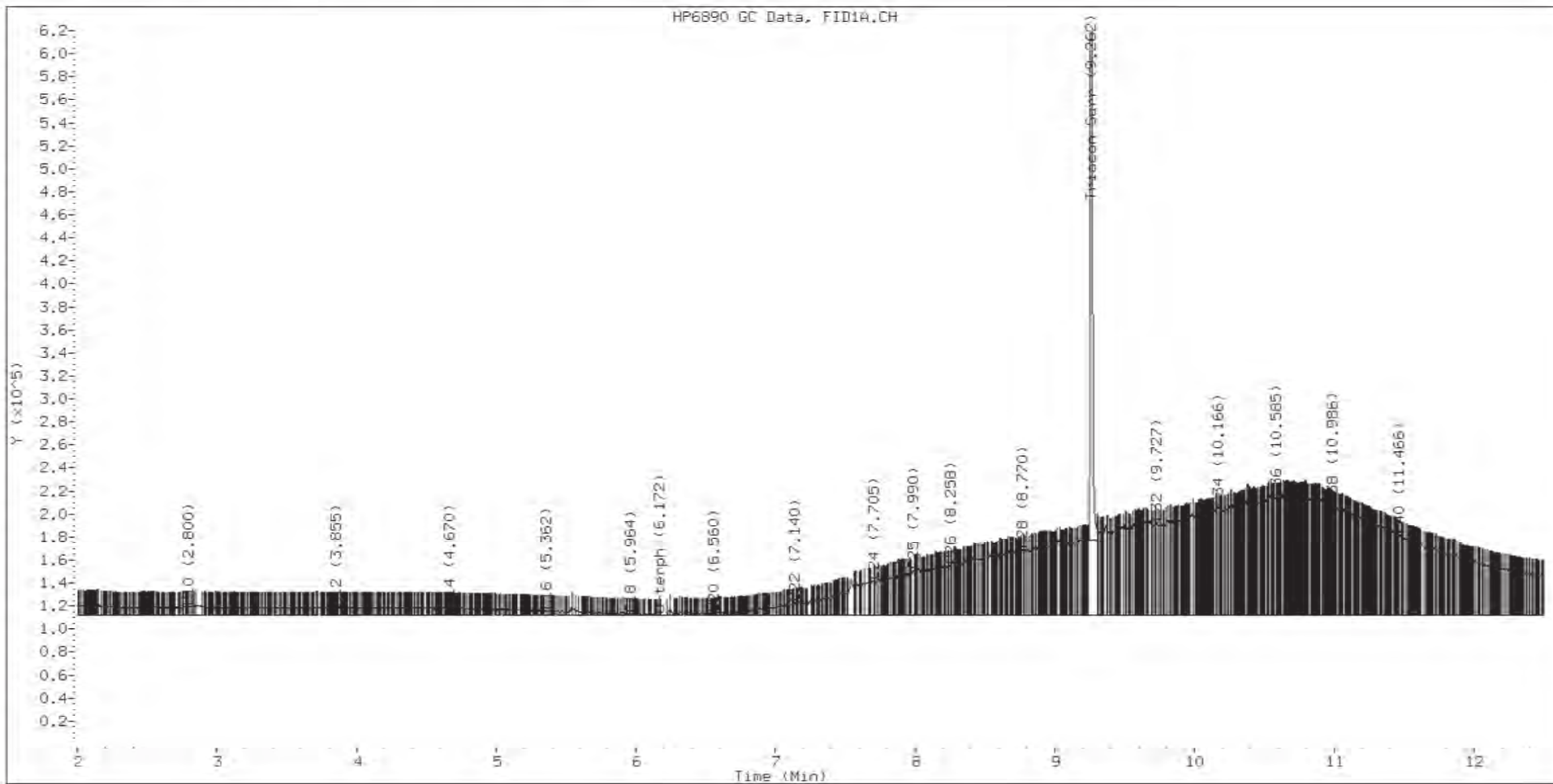
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.567	0.001	17146	19314	WATPHD	(C12-C24)	1474779	10.1
C10	2.800	-0.002	6919	1375	WATPHM	(C24-C38)	13771790	103.9
C12	3.855	-0.003	6785	3685	AK102	(C10-C25)	2234932	13.0
C14	4.670	0.002	6048	2401	AK103	(C25-C36)	10945533	110.7
C16	5.362	0.006	3993	2753	OR.DIES	(C10-C28)	4695847	27.0
C18	5.964	-0.008	893	555				
C20	6.560	-0.000	1925	933				
C22	7.140	-0.001	10540	7151				
C24	7.705	-0.004	29831	19074				
C25	7.990	0.003	39026	43181				
C26	8.258	0.001	43157	10746				
C28	8.770	-0.005	57286	39691				
C32	9.727	-0.003	80921	56092				
C34	10.166	-0.001	93902	74517				
Filter Peak	13.971	-0.002	23966	5967				
C36	10.585	0.004	101870	25421				
C38	10.986	-0.003	96118	43017				
C40	11.466	0.007	69773	58785				
o-terph	6.172	0.005	280	151				
Triacon Surr	9.262	-0.028	812213	727031	NAS DIES	(C10-C24)	1904331	11.1

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	151	0.0
Triacontane	727031	4.2 M

M Indicates the peak was manually integrated

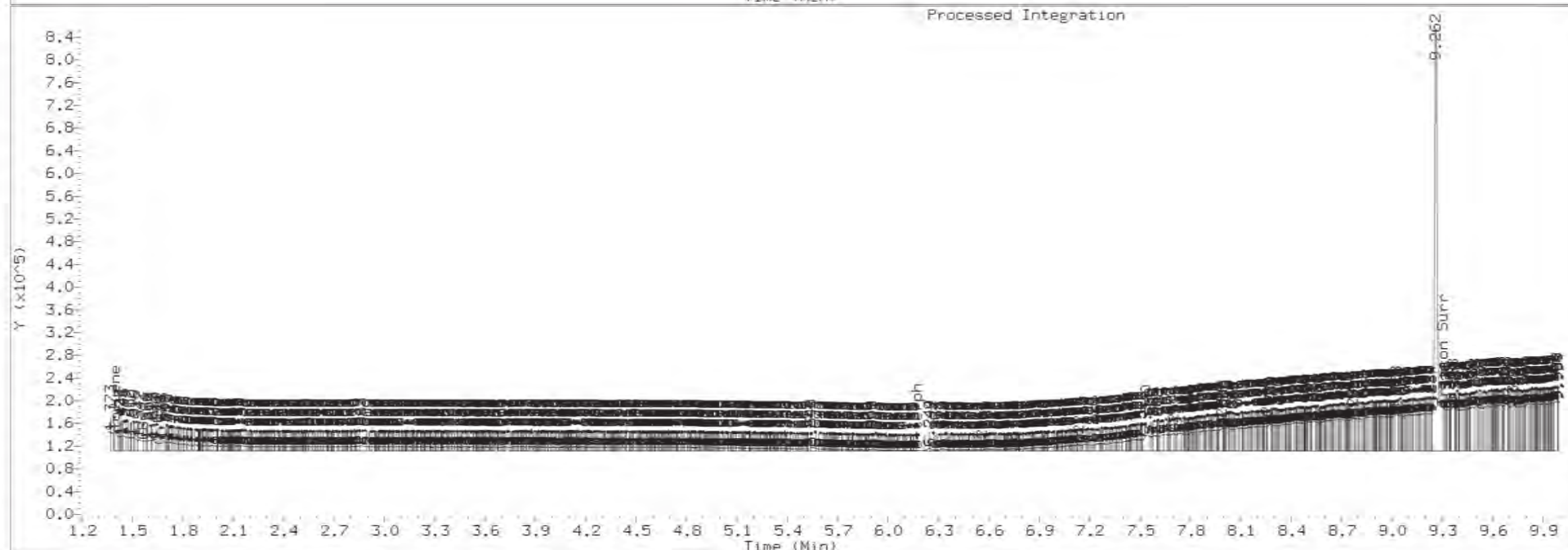
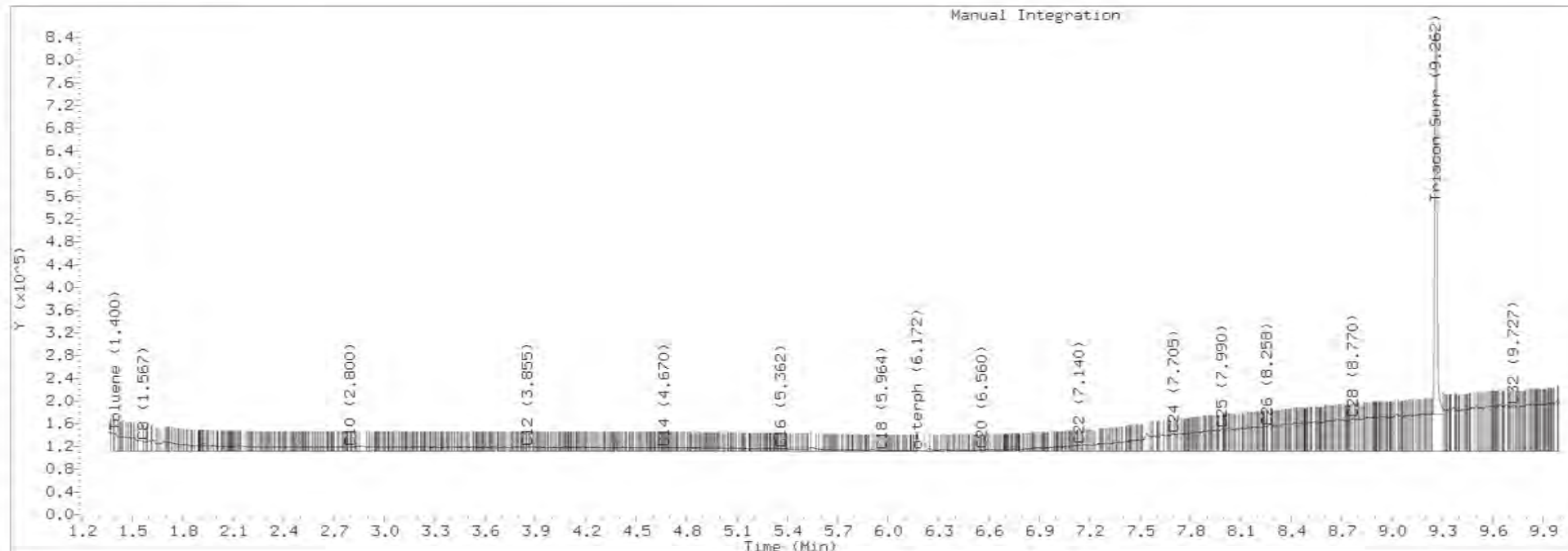
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0634.D Injection: 06-JAN-2022 21:41

Lab ID:SKA0028-CALD

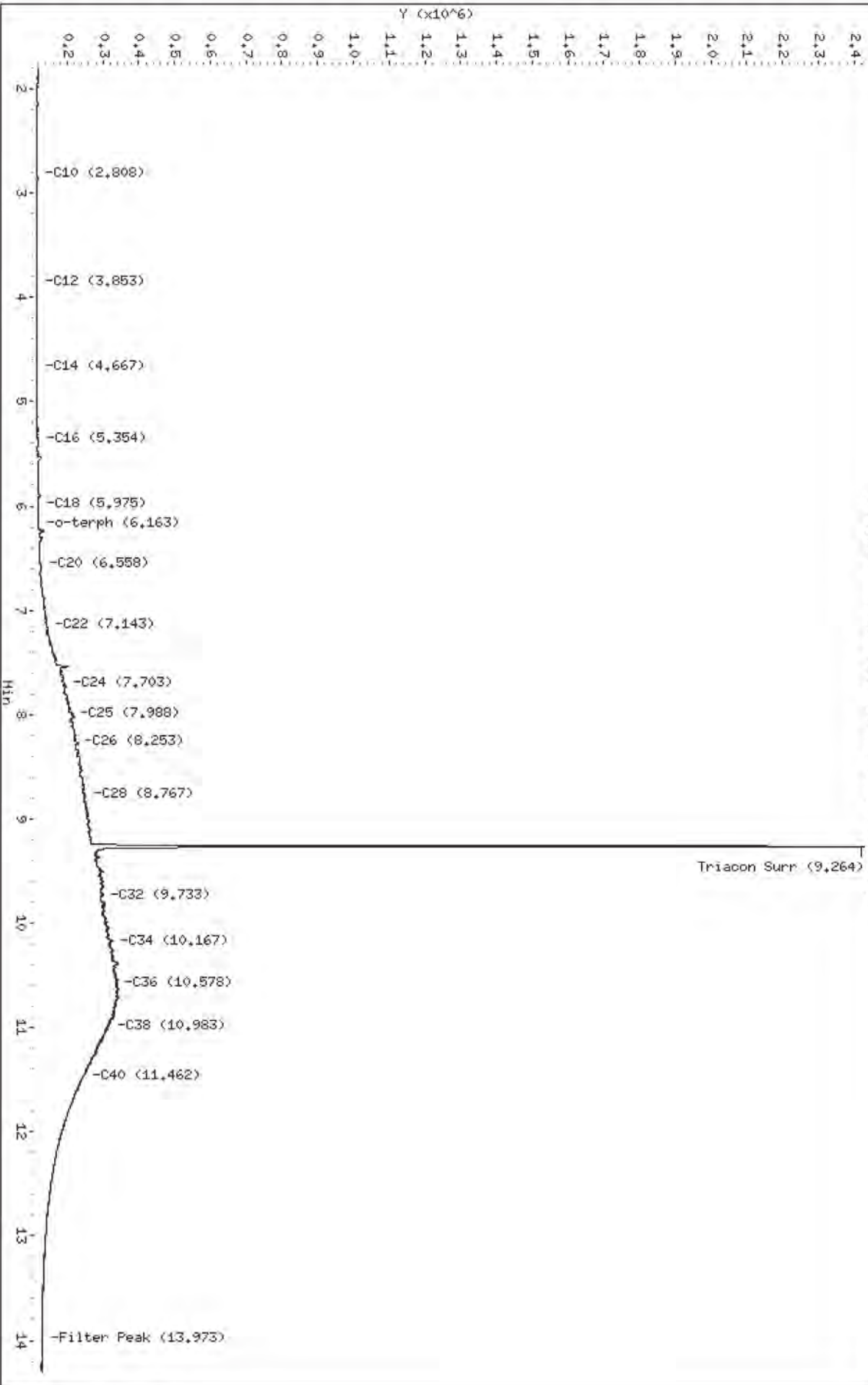


Data File: \\target\share\chem2\fid4s.1\20220106.b\42240635.D
Date: 06-JUN-2022 22:01
Client ID:
Sample Info: SKA0028-DALE

Column phase: RTX-1

Instrument: fid4s.1
Operator: TMC
Column diameter: 0.25

\\target\share\chem2\fid4s.1\20220106.b\42240635.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0635.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALE
Client ID:
Injection: 06-JAN-2022 22:01
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

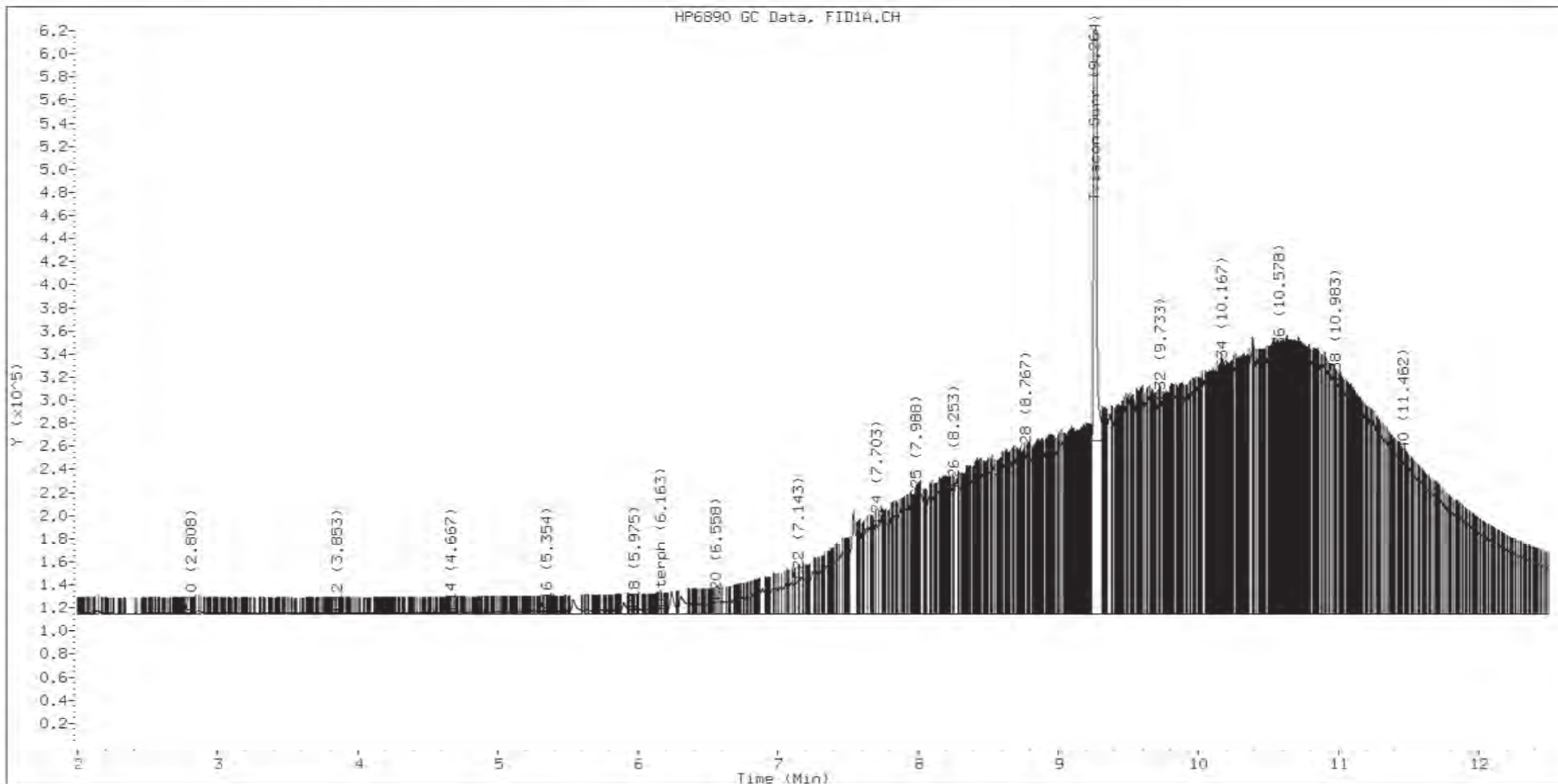
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.577	0.010	8719	1728	WATPHD	(C12-C24)	2929726	20.1
C10	2.808	0.007	730	310	WATPHM	(C24-C38)	31748804	239.5
C12	3.853	-0.006	795	616	AK102	(C10-C25)	3824694	22.2
C14	4.667	-0.001	1277	1021	AK103	(C25-C36)	25645540	259.3
C16	5.354	-0.002	2070	507	OR.DIES	(C10-C28)	9965738	57.4
C18	5.975	0.003	3530	1724				
C20	6.558	-0.002	10355	11106				
C22	7.143	0.001	29007	34388				
C24	7.703	-0.005	77178	83297				
C25	7.988	0.002	98914	48889				
C26	8.253	-0.005	108103	48204				
C28	8.767	-0.009	136834	155381				
C32	9.733	0.004	184014	127408				
C34	10.167	-0.000	211495	52618				
Filter Peak	13.973	0.000	14730	5087				
C36	10.578	-0.003	222240	77716				
C38	10.983	-0.005	200745	129371				
C40	11.462	0.002	131317	97270				
o-terph	6.163	-0.004	4526	2639				
Triacon Surr	9.264	-0.025	2163427	1840060	NAS DIES	(C10-C24)	2959772	17.2

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	2639	0.0
Triacontane	1840060	10.6 M

M Indicates the peak was manually integrated

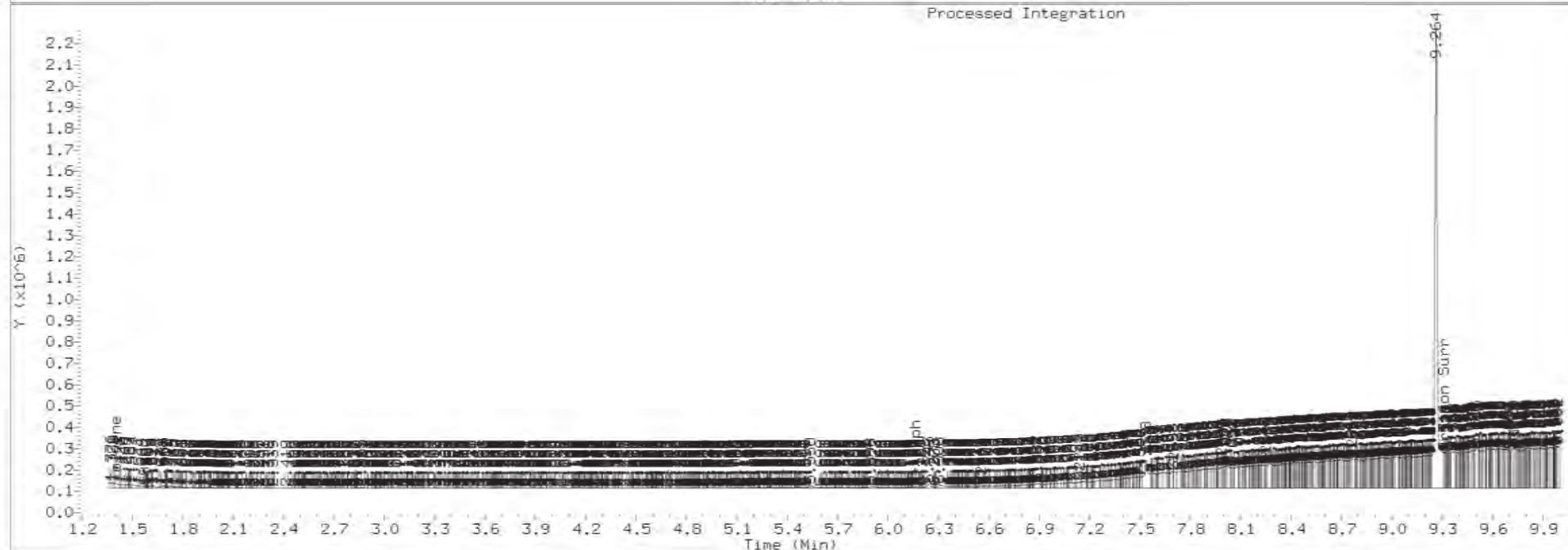
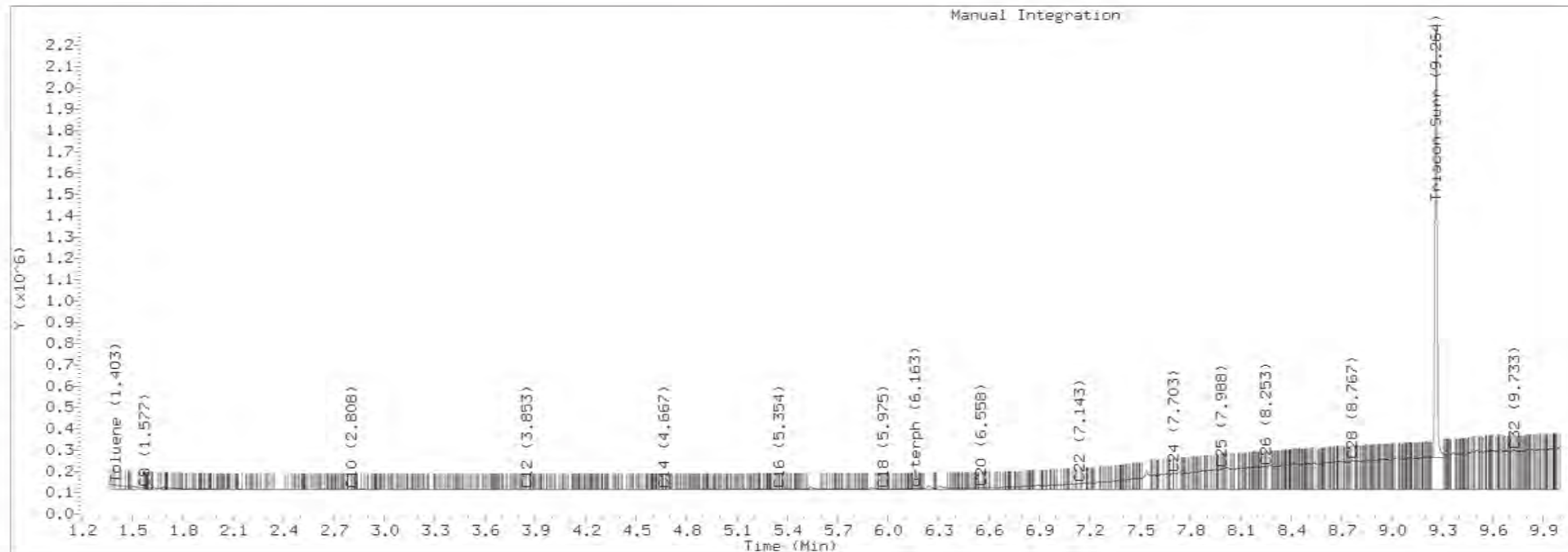
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0635.D Injection: 06-JAN-2022 22:01

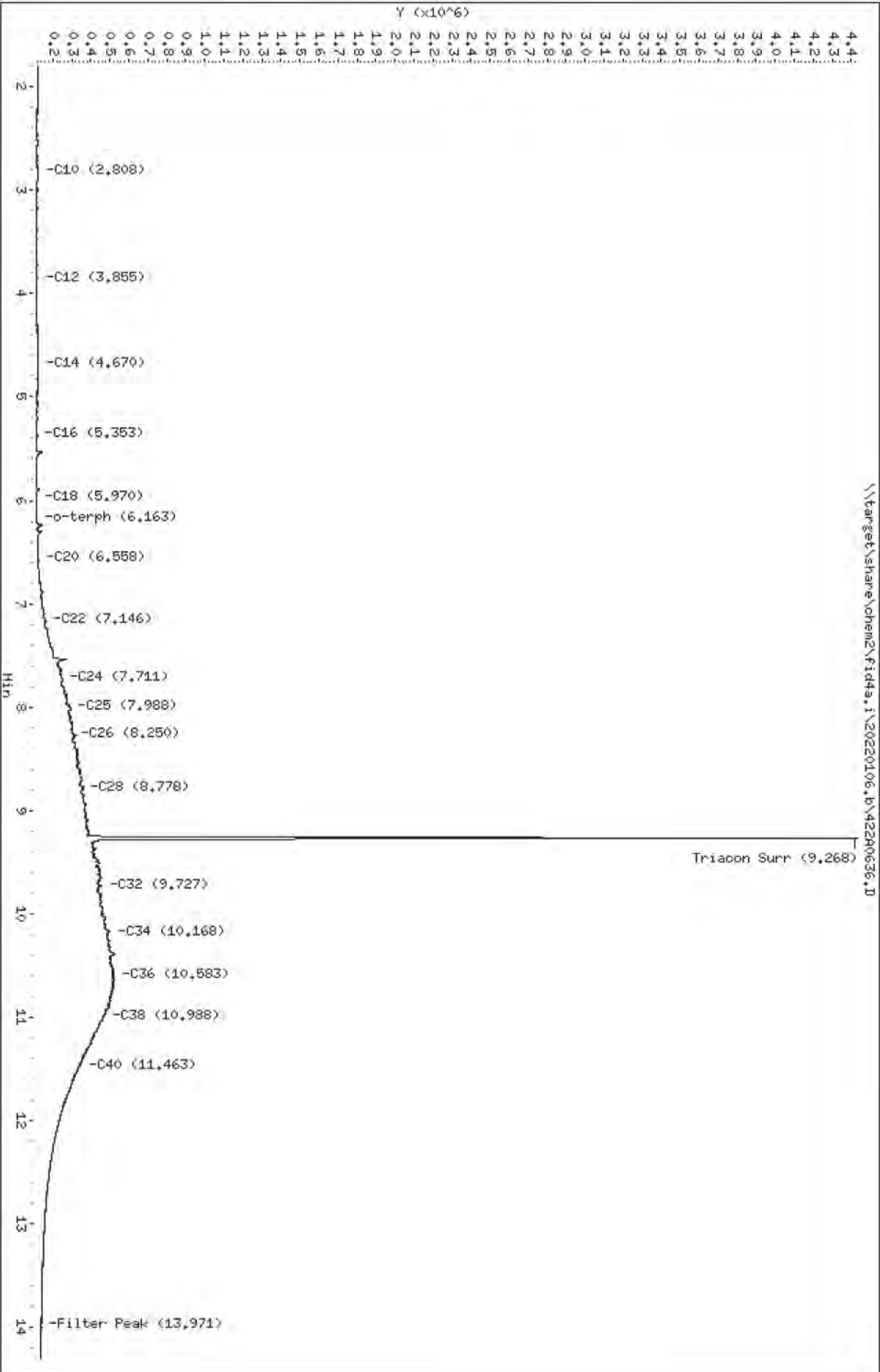
Lab ID:SKA0028-CALE



Data File: \\target\share\chem2\fid4s.1\20220106.b\42240636.D
Date: 06-JAN-2022 22:21
Client ID:
Sample Info: SKA0028-CALF

Column phase: RTX-1

Instrument: fid4s.1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0636.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALF
Client ID:
Injection: 06-JAN-2022 22:21
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

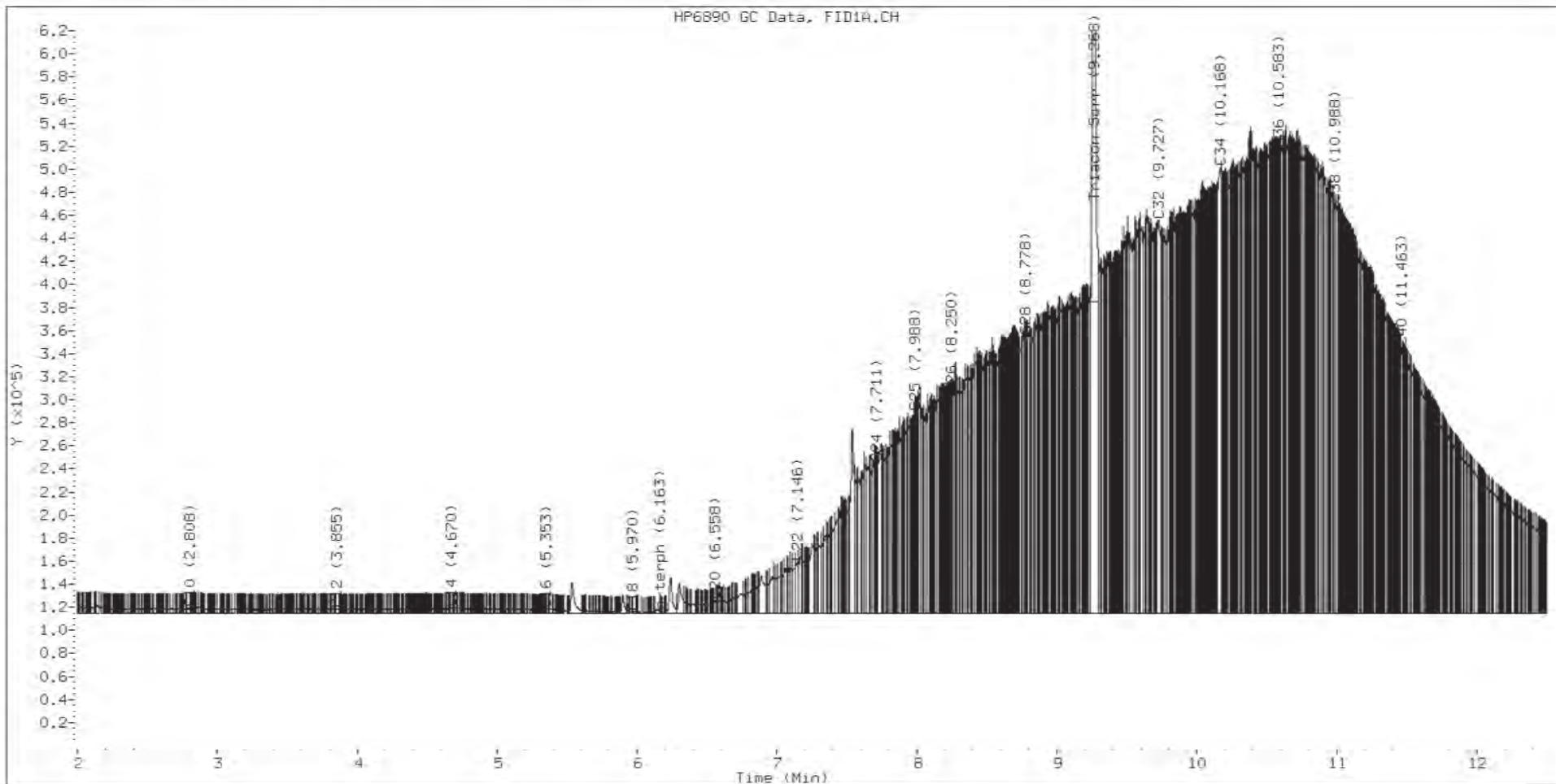
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.588	0.022	14154	9065	WATPHD	(C12-C24)	4637647	31.8
C10	2.808	0.006	3982	972	WATPHM	(C24-C38)	56653473	427.3
C12	3.855	-0.004	3786	3993	AK102	(C10-C25)	6441039	37.4
C14	4.670	0.002	4050	2404	AK103	(C25-C36)	45729418	462.3
C16	5.353	-0.004	3118	761	OR.DIES	(C10-C28)	17026229	98.0
C18	5.970	-0.002	794	203				
C20	6.558	-0.001	10478	9728				
C22	7.146	0.005	44045	65456				
C24	7.711	0.002	130061	38666				
C25	7.988	0.002	174343	60325				
C26	8.250	-0.007	189683	56662				
C28	8.778	0.003	240756	95966				
C32	9.727	-0.003	340946	614753				
C34	10.168	0.001	386820	624600				
Filter Peak	13.971	-0.002	25087	9932				
C36	10.583	0.002	402993	240743				
C38	10.988	-0.000	355088	281638				
C40	11.463	0.003	229950	158804				
o-terph	6.163	-0.005	2082	1126				
Triacon Surr	9.268	-0.022	4048608	3404066	NAS DIES	(C10-C24)	4860533	28.3

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	1126	0.0
Triacontane	3404066	19.5 M

M Indicates the peak was manually integrated

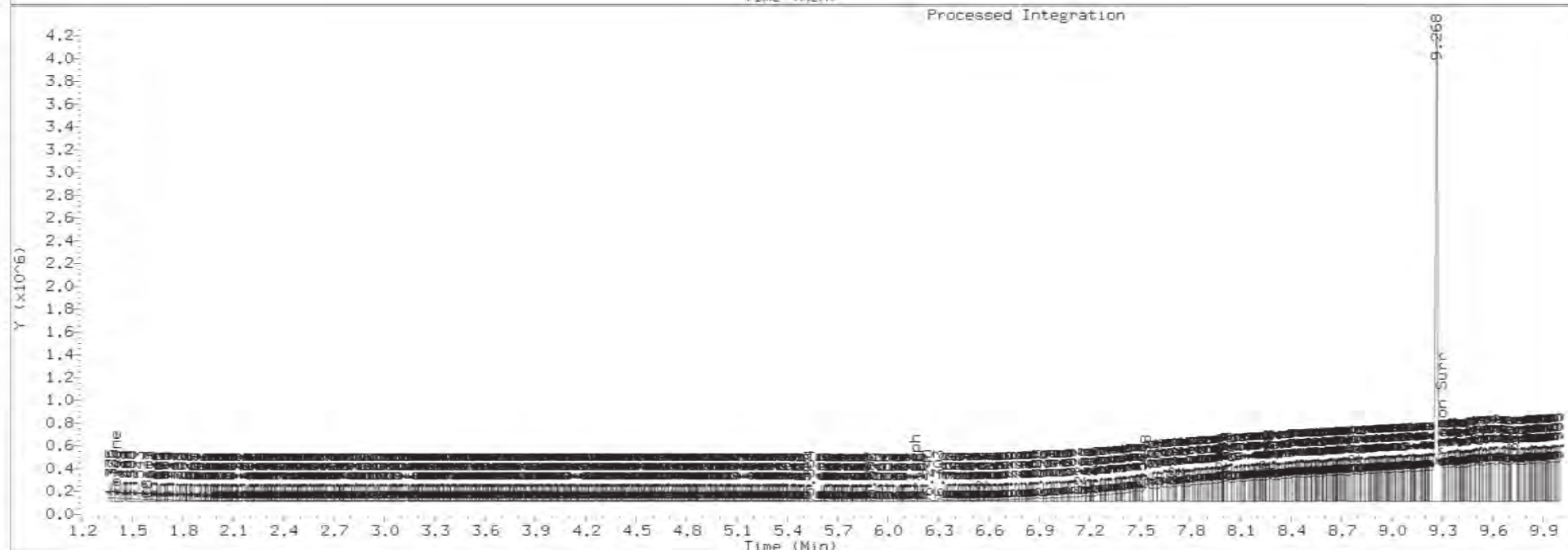
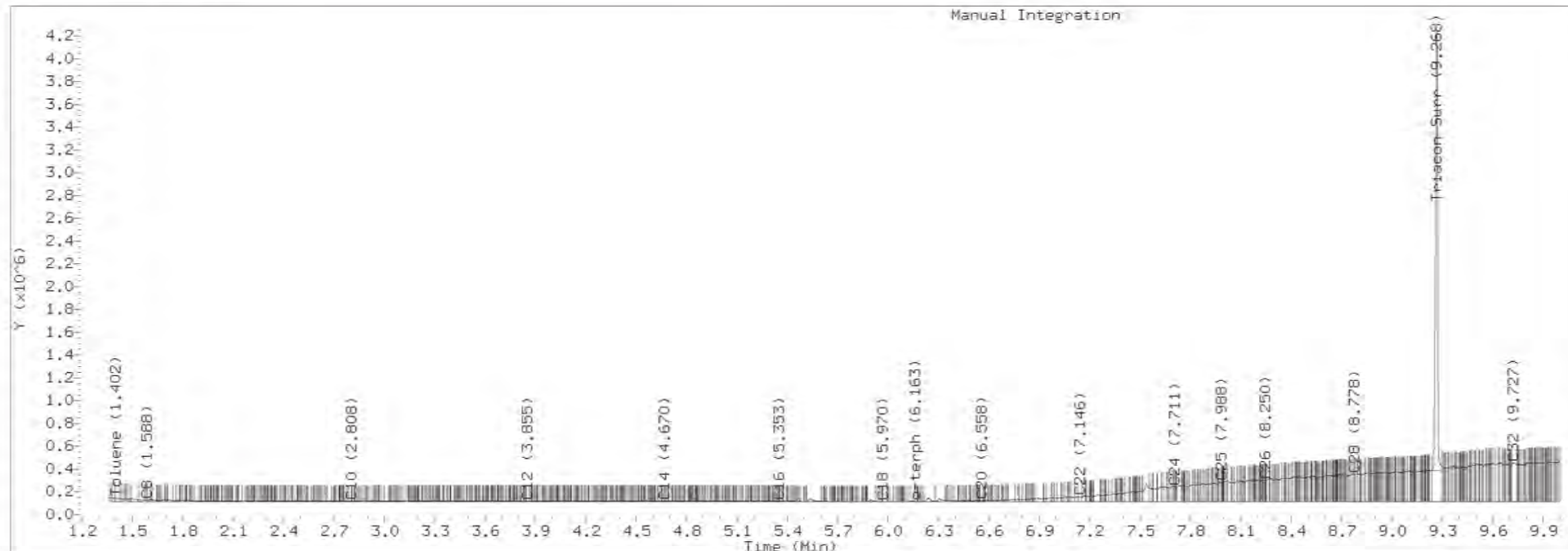
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0636.D Injection: 06-JAN-2022 22:21

Lab ID:SKA0028-CALF

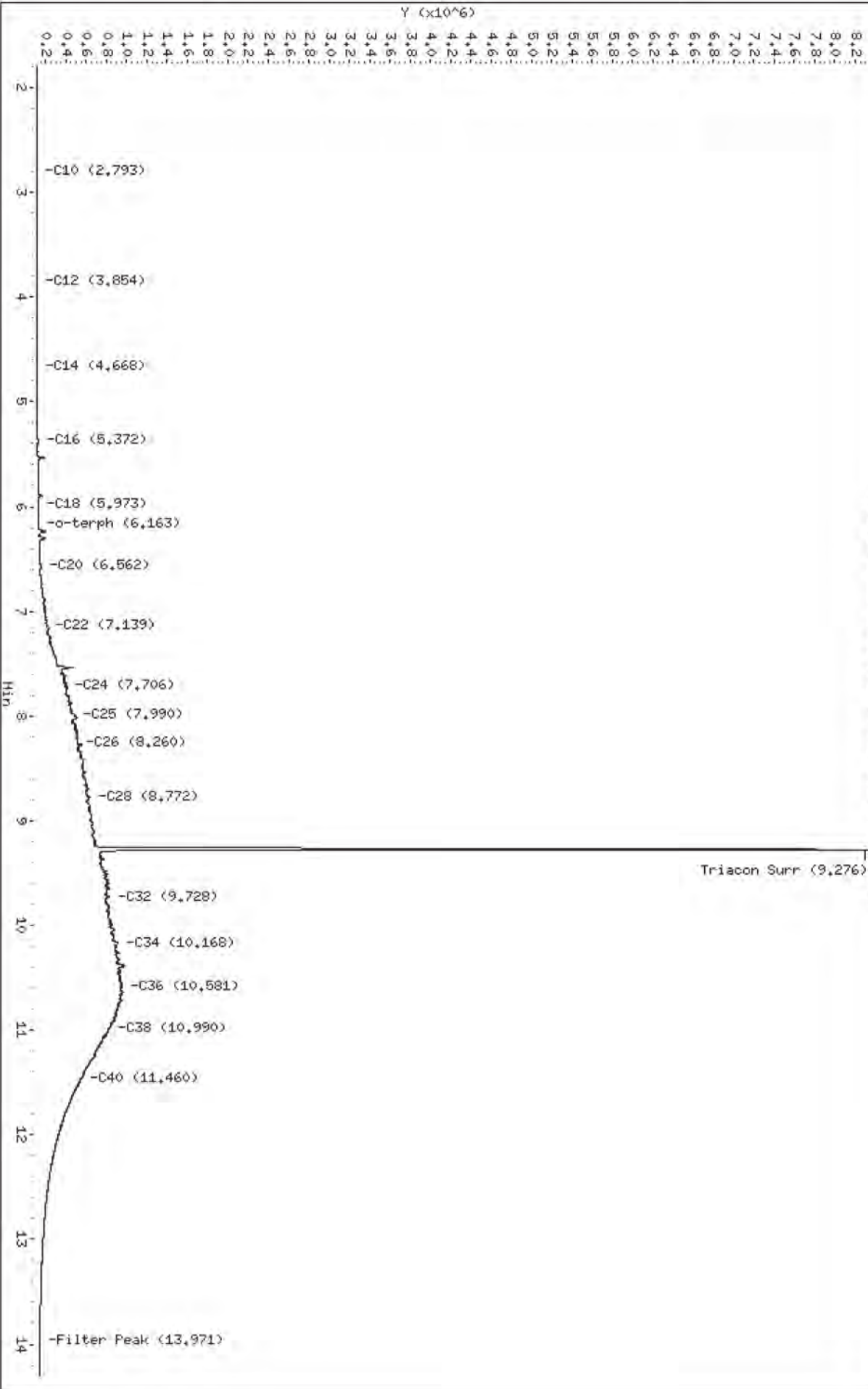


Data File: \\target\share\chem2\fid4s.1\20220106.b\42240637.D
Date: 06-JUN-2022 22:40
Client ID:
Sample Info: SKA0028-CALG

Column phase: RTX-1

Instrument: fid4s.1
Operator: TMC
Column diameter: 0.25

\\target\share\chem2\fid4s.1\20220106.b\42240637.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0637.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALG
Client ID:
Injection: 06-JAN-2022 22:40
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

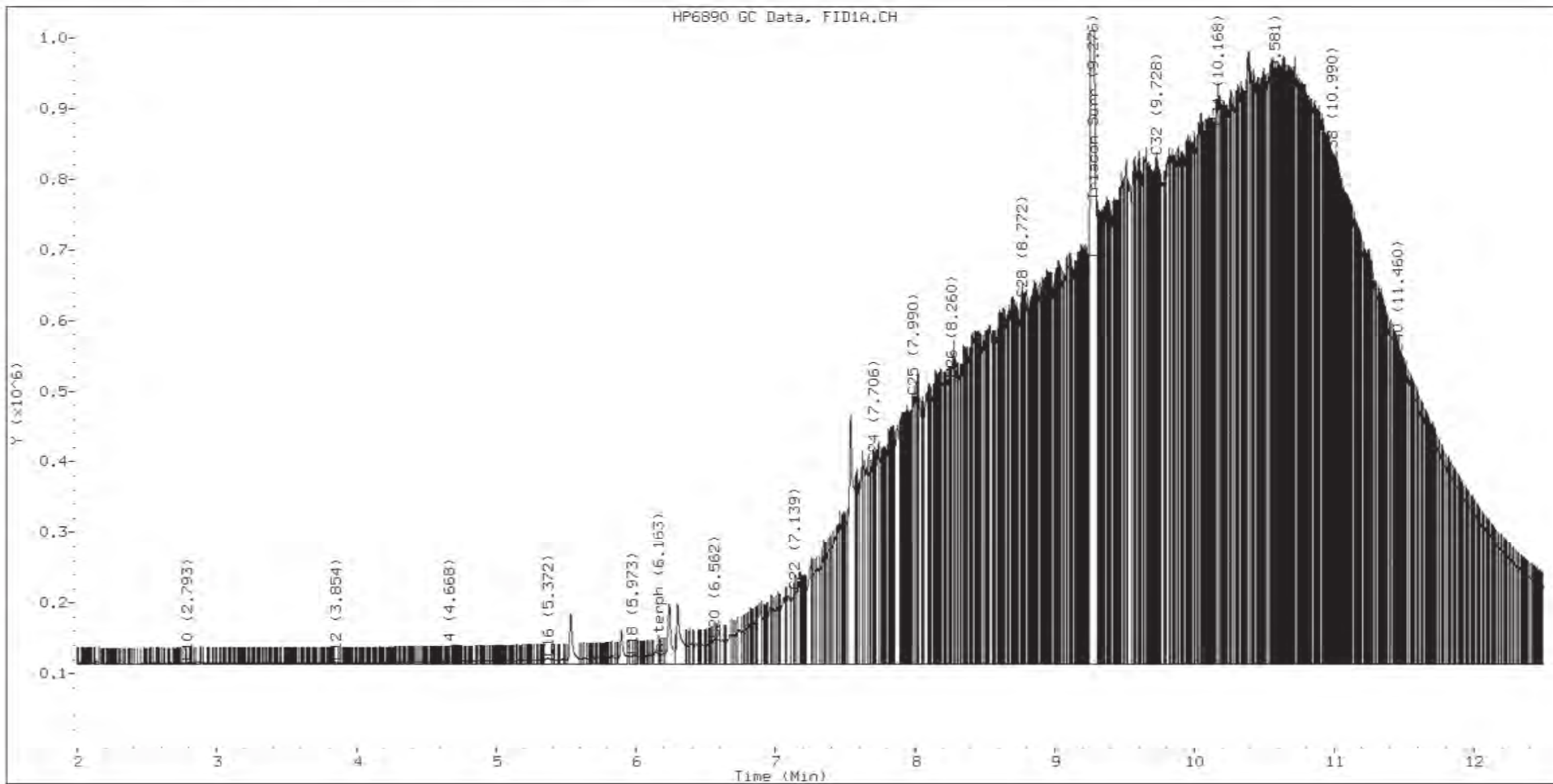
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.564	-0.002	10251	8037	WATPHD	(C12-C24)	10669048	73.2
C10	2.793	-0.009	2989	2545	WATPHM	(C24-C38)	118912028	896.9
C12	3.854	-0.004	3129	3369	AK102	(C10-C25)	14106045	81.9
C14	4.668	-0.000	3674	726	AK103	(C25-C36)	96301748	973.6
C16	5.372	0.016	8563	21003	OR.DIES	(C10-C28)	36905977	212.4
C18	5.973	0.001	11679	12084				
C20	6.562	0.002	35663	24640				
C22	7.139	-0.002	103298	79290				
C24	7.706	-0.003	284447	224436				
C25	7.990	0.004	378257	277820				
C26	8.260	0.003	403438	120714				
C28	8.772	-0.004	516982	255803				
C32	9.728	-0.002	718410	459925				
C34	10.168	0.001	803384	239993				
Filter Peak	13.971	-0.002	27761	6898				
C36	10.581	-0.000	834404	331494				
C38	10.990	0.001	714197	317894				
C40	11.460	0.001	440399	153485				
o-terph	6.163	-0.004	14672	10827				
Triacon Surr	9.276	-0.014	7631149	7112816	NAS DIES	(C10-C24)	10776583	62.7

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	10827	0.1
Triacotane	7112816	40.8 M

M Indicates the peak was manually integrated

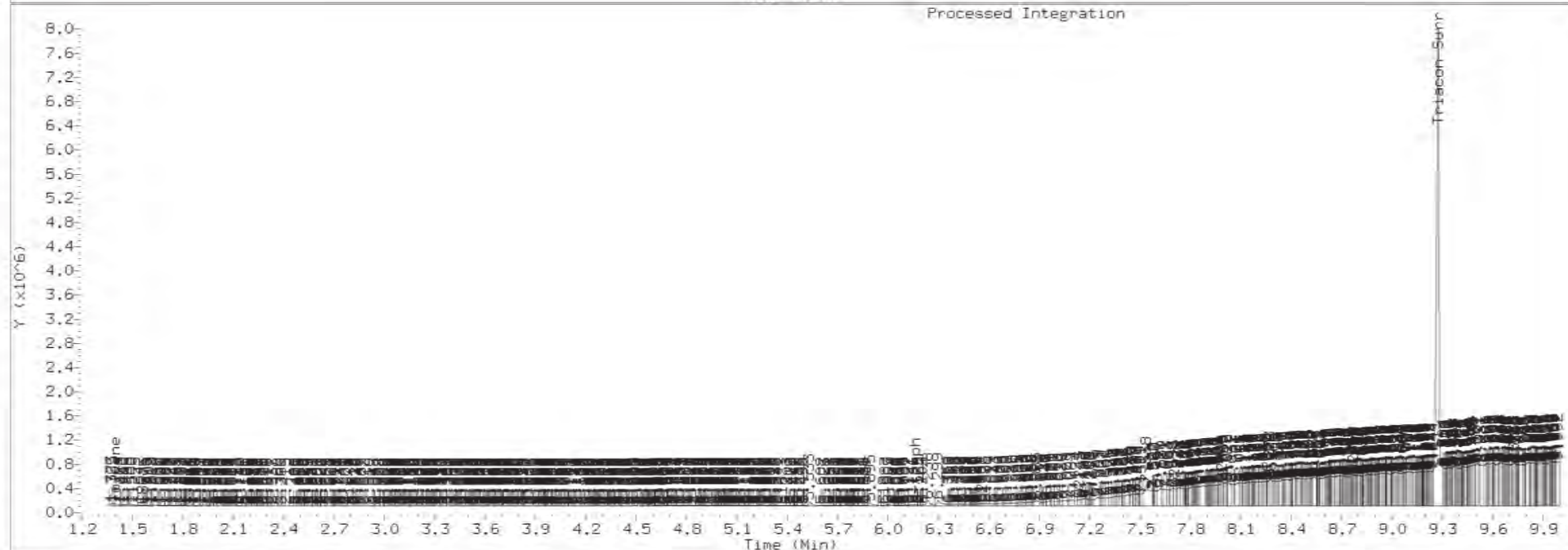
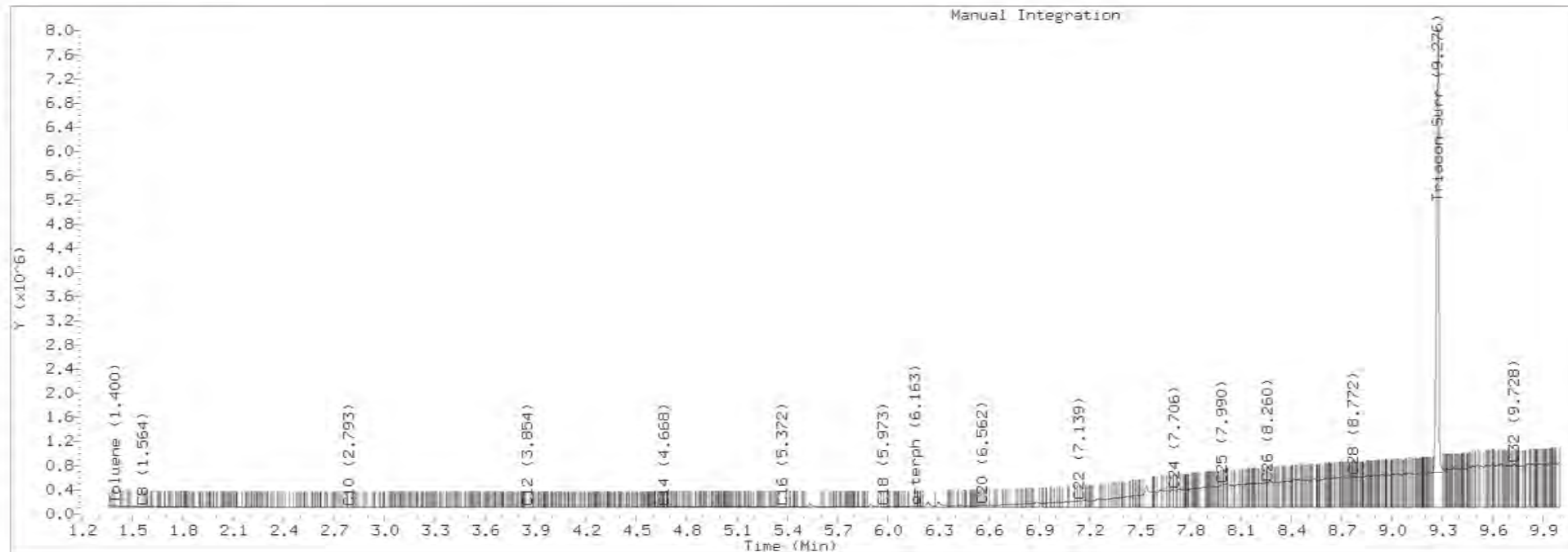
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0637.D Injection: 06-JAN-2022 22:40

Lab ID:SKA0028-CALG

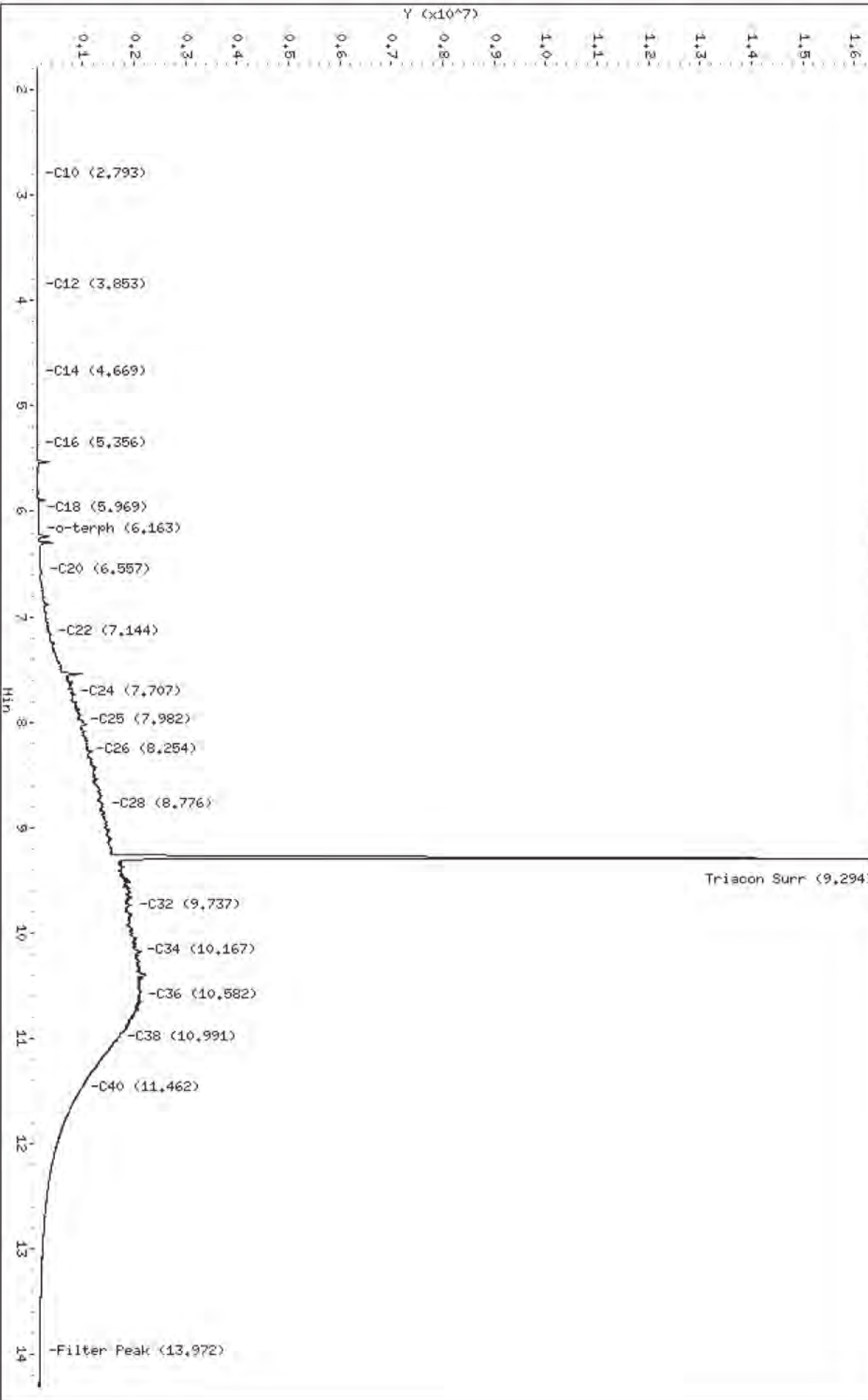


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Date: 06-JUN-2022 23:00
Client ID:
Sample Info: SKA0028-DALH

Column phase: RTX-1

Instrument: fid4s.1
Operator: TMC
Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0638.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALH
Client ID:
Injection: 06-JAN-2022 23:00
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

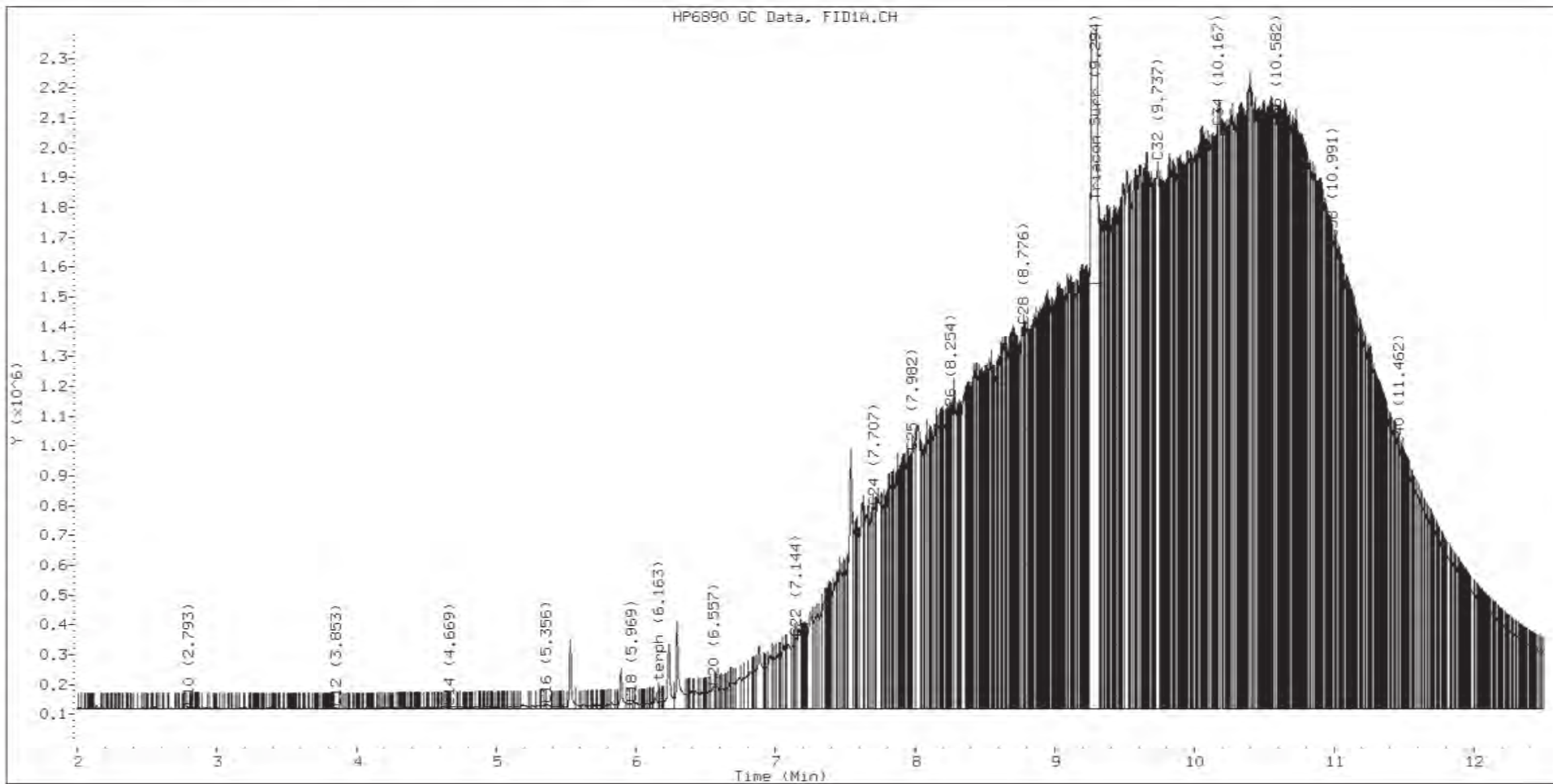
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.550	-0.016	15003	25686	WATPHD	(C12-C24)	24361681	167.1
C10	2.793	-0.008	5806	4253	WATPHM	(C24-C38)	289674025	2184.9
C12	3.853	-0.006	4910	5292	AK102	(C10-C25)	32275990	187.4
C14	4.669	0.001	5973	2906	AK103	(C25-C36)	237850338	2404.7
C16	5.356	-0.001	13540	11261	OR.DIES	(C10-C28)	87712919	504.8
C18	5.969	-0.003	19481	20038				
C20	6.557	-0.003	74936	126475				
C22	7.144	0.003	236942	186098				
C24	7.707	-0.002	677766	469515				
C25	7.982	-0.005	863746	542351				
C26	8.254	-0.003	976816	340522				
C28	8.776	0.000	1285059	822854				
C32	9.737	0.008	1833990	3204593				
C34	10.167	-0.001	1975729	1066182				
Filter Peak	13.972	-0.001	47695	14242				
C36	10.582	0.001	1998401	1188859				
C38	10.991	0.002	1575341	1017575				
C40	11.462	0.002	881216	482236				
o-terph	6.163	-0.004	24484	15319				
Triacon Surr	9.294	0.004	14822727	18477737	NAS DIES	(C10-C24)	24461975	142.4

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	15319	0.1
Triacontane	18477737	106.1 M

M Indicates the peak was manually integrated

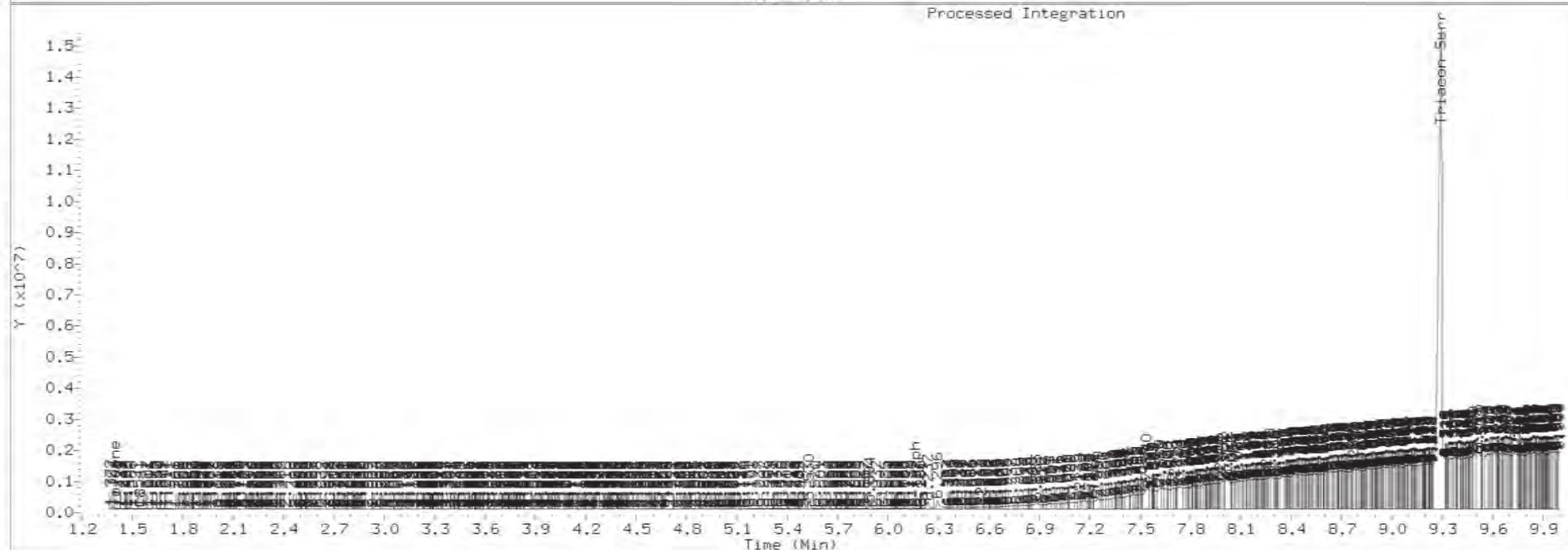
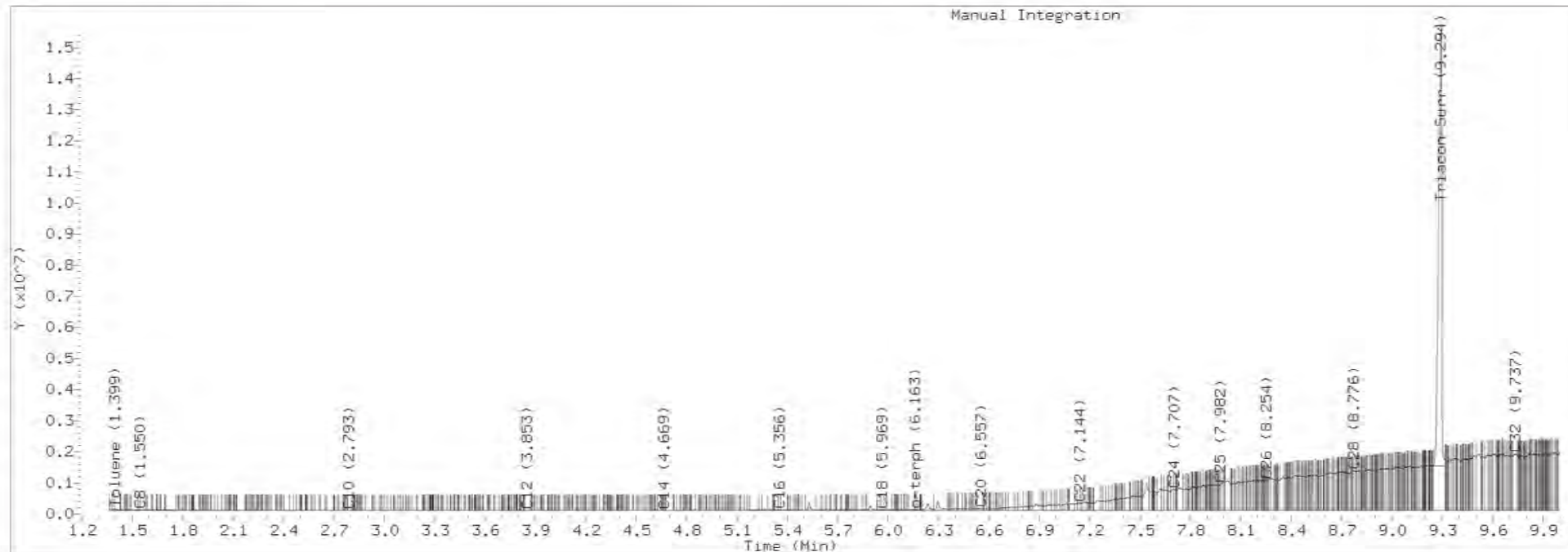
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0638.D Injection: 06-JAN-2022 23:00

Lab ID:SKA0028-CALH

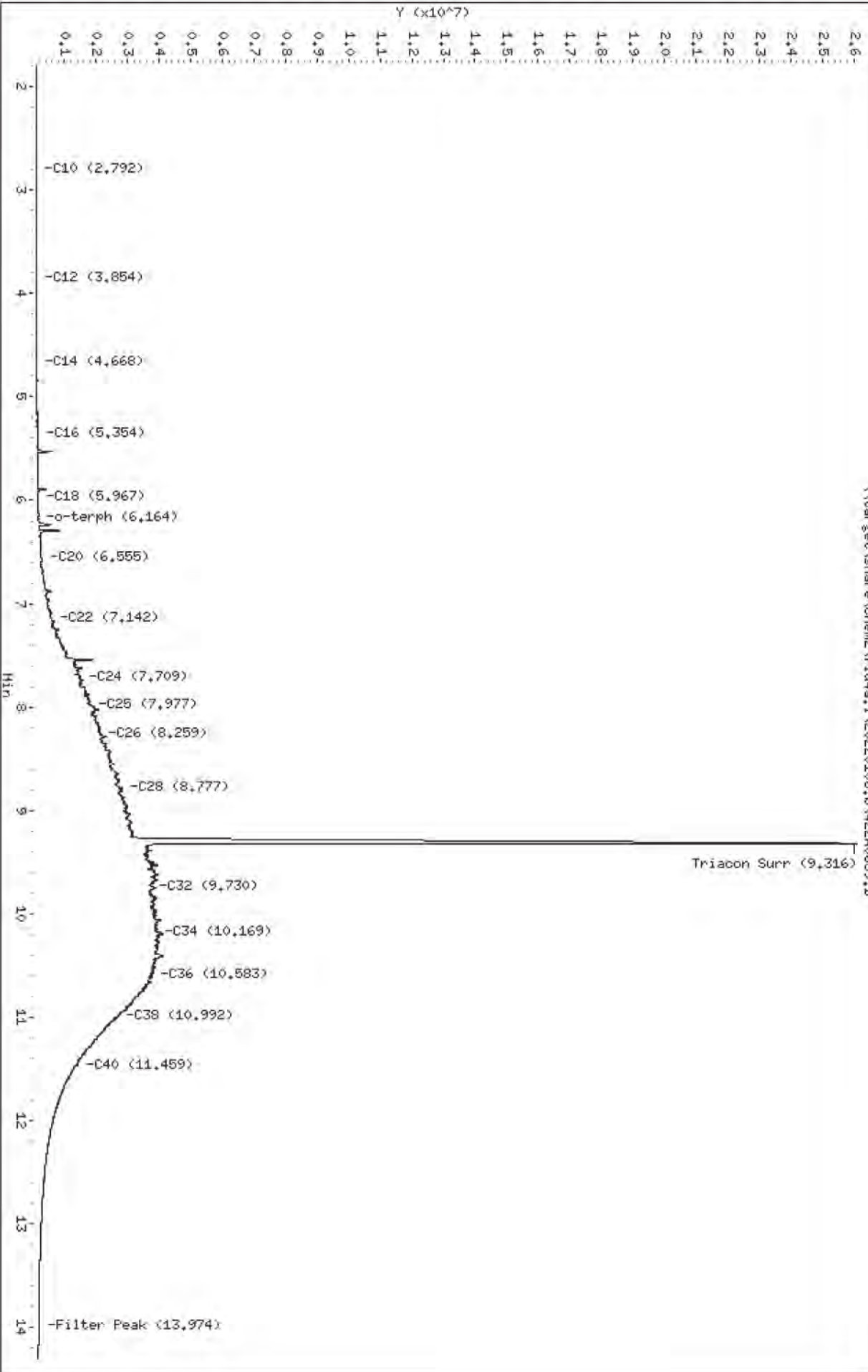


Data File: \\target\share\chem2\fid4s.1\20220106.b\42240639.D
Date: 06-JAN-2022 23:20
Client ID:
Sample Info: SKA0028-CALI

Column phase: RTX-1

Instrument: fid4s.1
Operator: TMC
Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0639.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALI
Client ID:
Injection: 06-JAN-2022 23:20
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

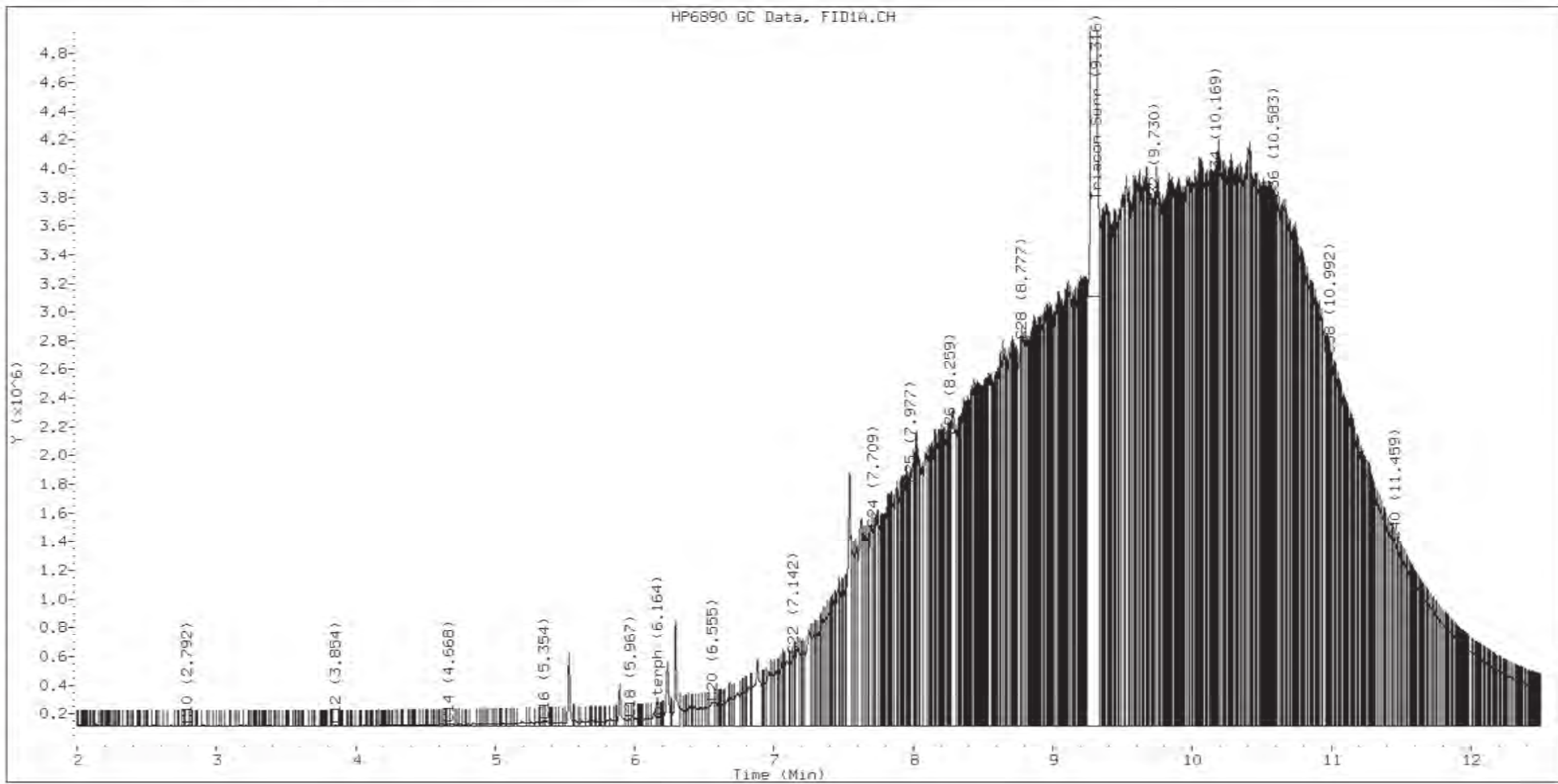
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.565	-0.001	11725	6933	WATPHD	(C12-C24)	51665018	354.5
C10	2.792	-0.009	11749	9511	WATPHM	(C24-C38)	580345070	4377.3
C12	3.854	-0.005	12714	17010	AK102	(C10-C25)	67592612	392.4
C14	4.668	-0.000	16107	18663	AK103	(C25-C36)	492594942	4980.3
C16	5.354	-0.003	36148	36162	OR.DIES	(C10-C28)	183451140	1055.7
C18	5.967	-0.005	54500	58780				
C20	6.555	-0.004	168086	345395				
C22	7.142	0.001	496825	426514				
C24	7.709	-0.000	1380379	821529				
C25	7.977	-0.009	1684832	419304				
C26	8.259	0.002	2021095	604905				
C28	8.777	0.001	2684125	1195563				
C32	9.730	0.001	3627512	1086662				
C34	10.169	0.001	3804924	1327718				
Filter Peak	13.974	0.001	71473	21315				
C36	10.583	0.001	3665808	1277336				
C38	10.992	0.003	2584308	1280144				
C40	11.459	-0.000	1288075	1197871				
o-terph	6.164	-0.003	64420	50439				
Triacon Surr	9.316	0.026	22993117	39002952	NAS DIES	(C10-C24)	51959316	302.5

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	50439	0.3
Triacontane	39002952	223.9 M

M Indicates the peak was manually integrated

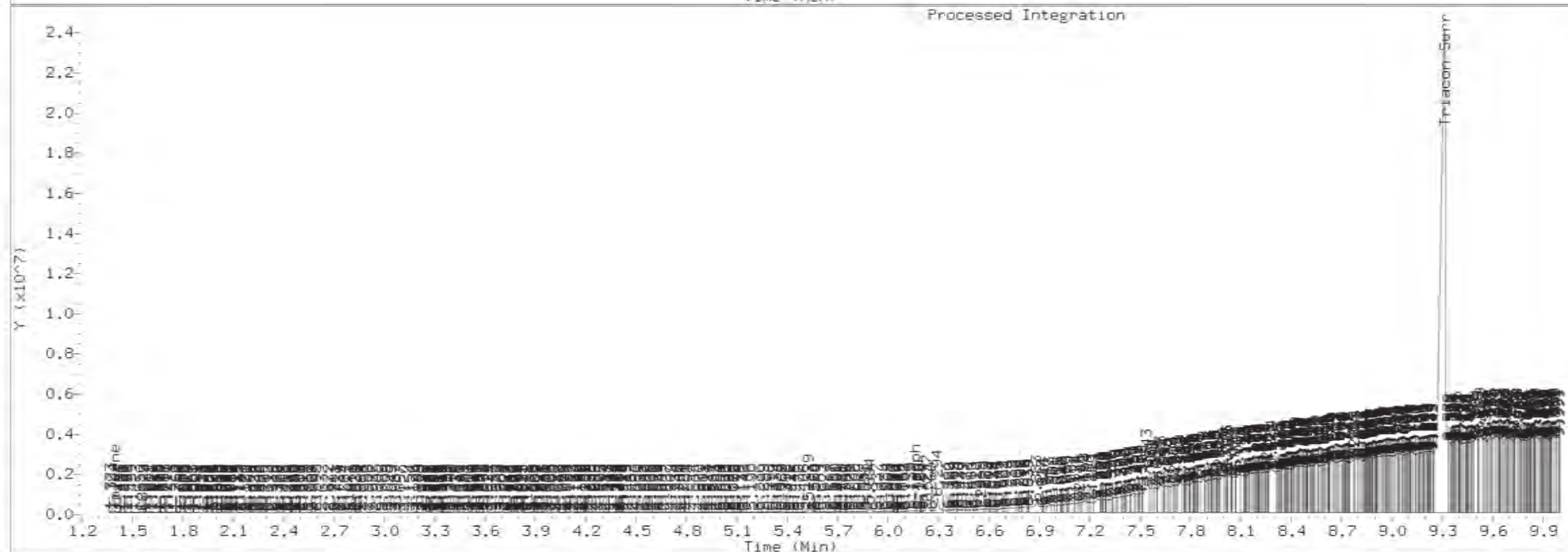
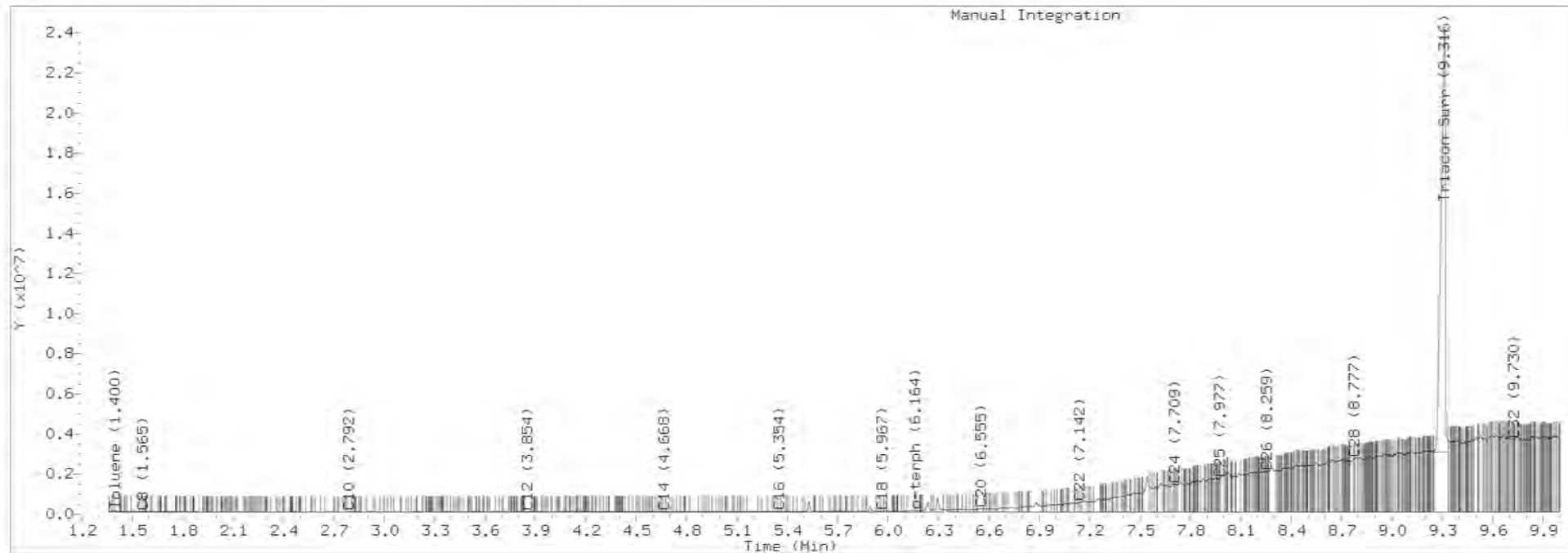
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0639.D Injection: 06-JAN-2022 23:20

Lab ID:SKA0028-CALI

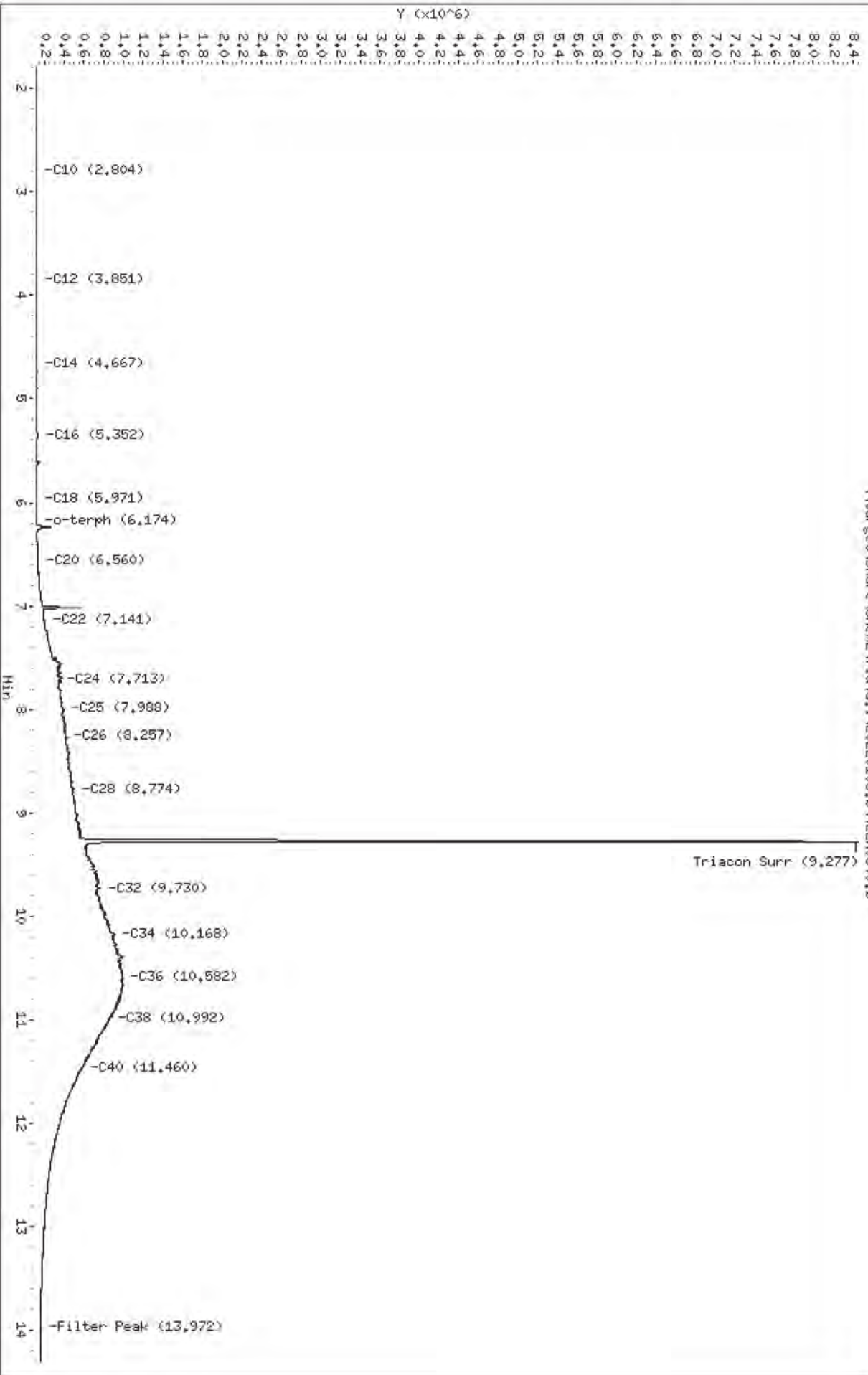


Data File: \\target\share\chem2\fid4s.1\20220106.b\42240640.D
Date: 06-JAN-2022 23:40
Client ID:
Sample Info: SKA0028-SCV3

Column phase: RTX-1

Instrument: fid4s.1
Operator: TMC
Column diameter: 0.25

\\target\share\chem2\fid4s.1\20220106.b\42240640.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0640.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-SCV3
Client ID:
Injection: 06-JAN-2022 23:40
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

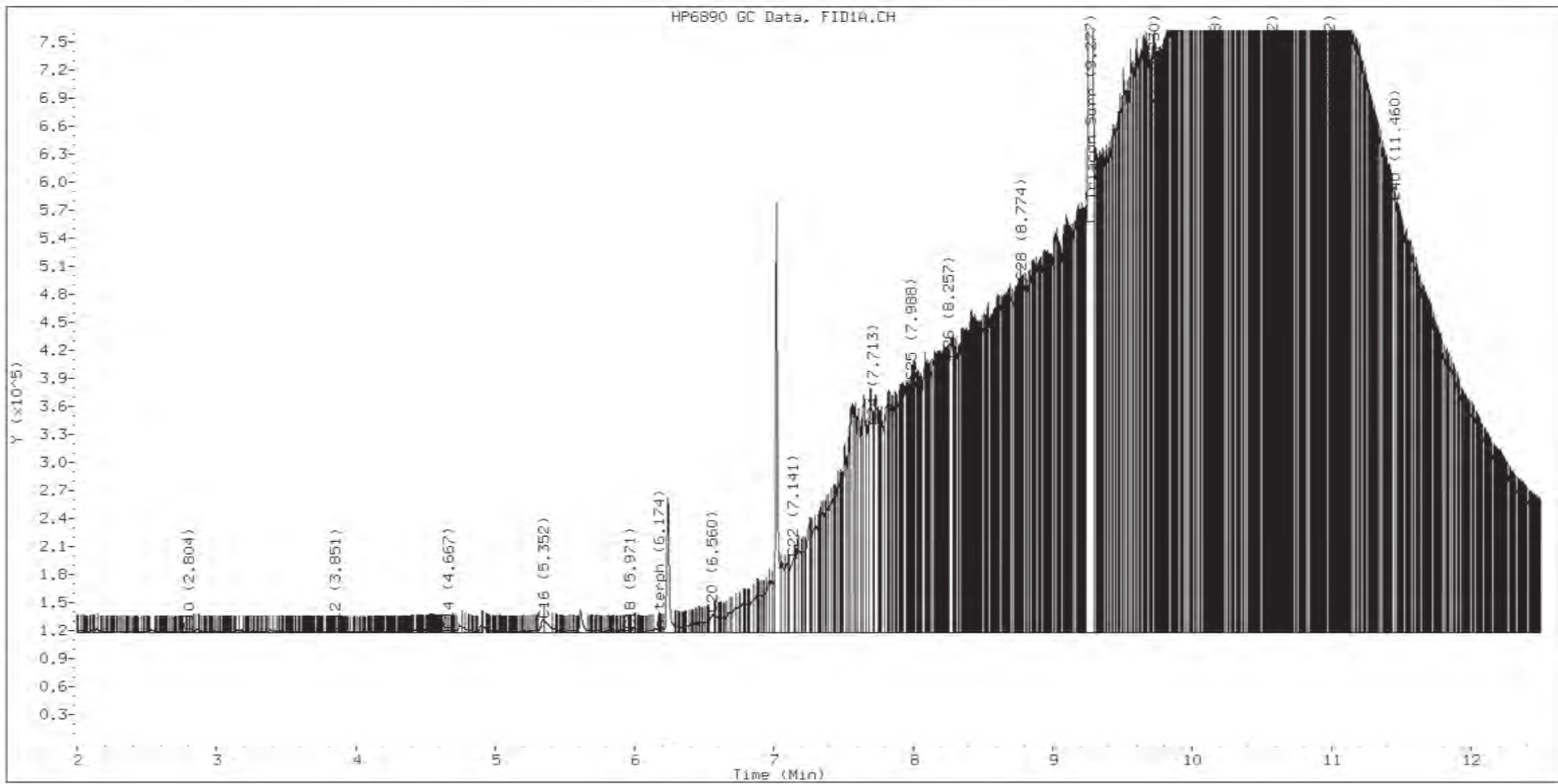
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.565	-0.001	10365	9390	WATPHD	(C12-C24)	8234302	56.5
C10	2.804	0.003	643	178	WATPHM	(C24-C38)	105151101	793.1
C12	3.851	-0.008	703	353	AK102	(C10-C25)	10715206	62.2
C14	4.667	-0.001	2250	441	AK103	(C25-C36)	83158236	840.8
C16	5.352	-0.005	13074	30853	OR.DIES	(C10-C28)	27148572	156.2
C18	5.971	-0.001	2056	1103				
C20	6.560	0.000	19188	37853				
C22	7.141	-0.001	79210	165645				
C24	7.713	0.004	220193	54885				
C25	7.988	0.002	269226	184162				
C26	8.257	-0.001	291878	87241				
C28	8.774	-0.001	375908	167319				
C32	9.730	0.000	638880	408276				
C34	10.168	0.001	789241	274861				
Filter Peak	13.972	-0.001	40486	34016				
C36	10.582	0.000	869081	432796				
C38	10.992	0.003	735926	146906				
C40	11.460	0.000	461343	320017				
o-terph	6.174	0.007	2337	668				
Triacon Surr	9.277	-0.013	7897642	7651039	NAS DIES	(C10-C24)	8285201	48.2

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	668	0.0
Triacontane	7651039	43.9 M

M Indicates the peak was manually integrated

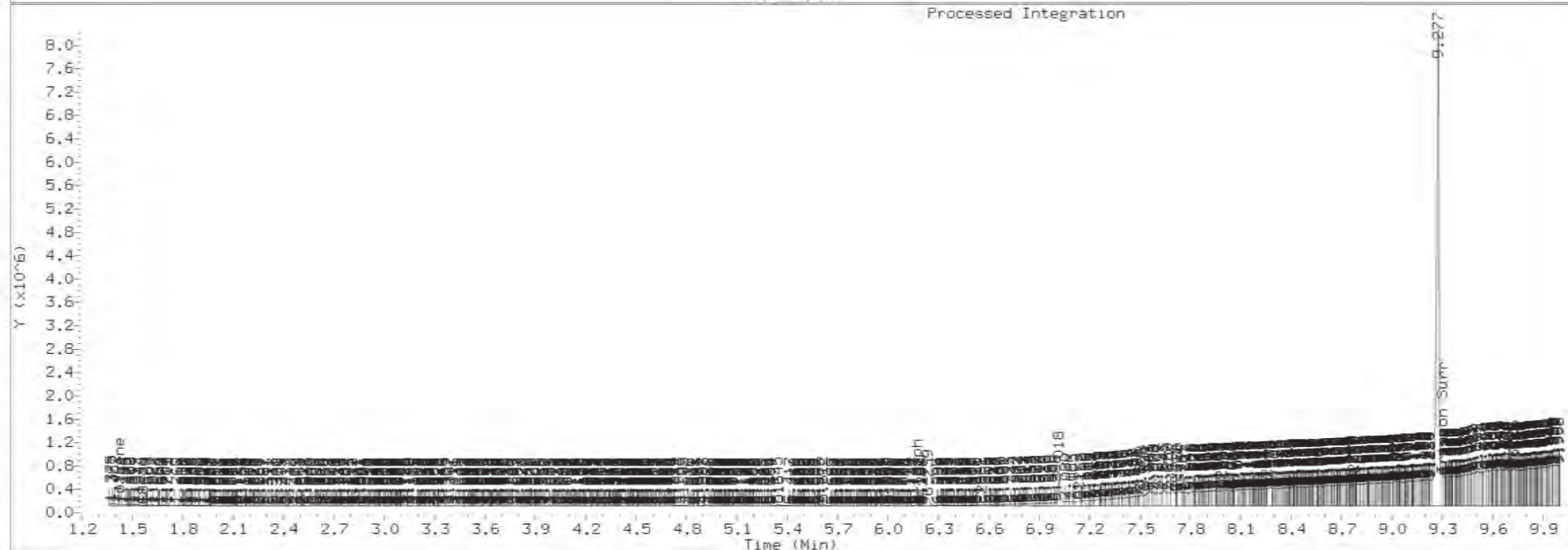
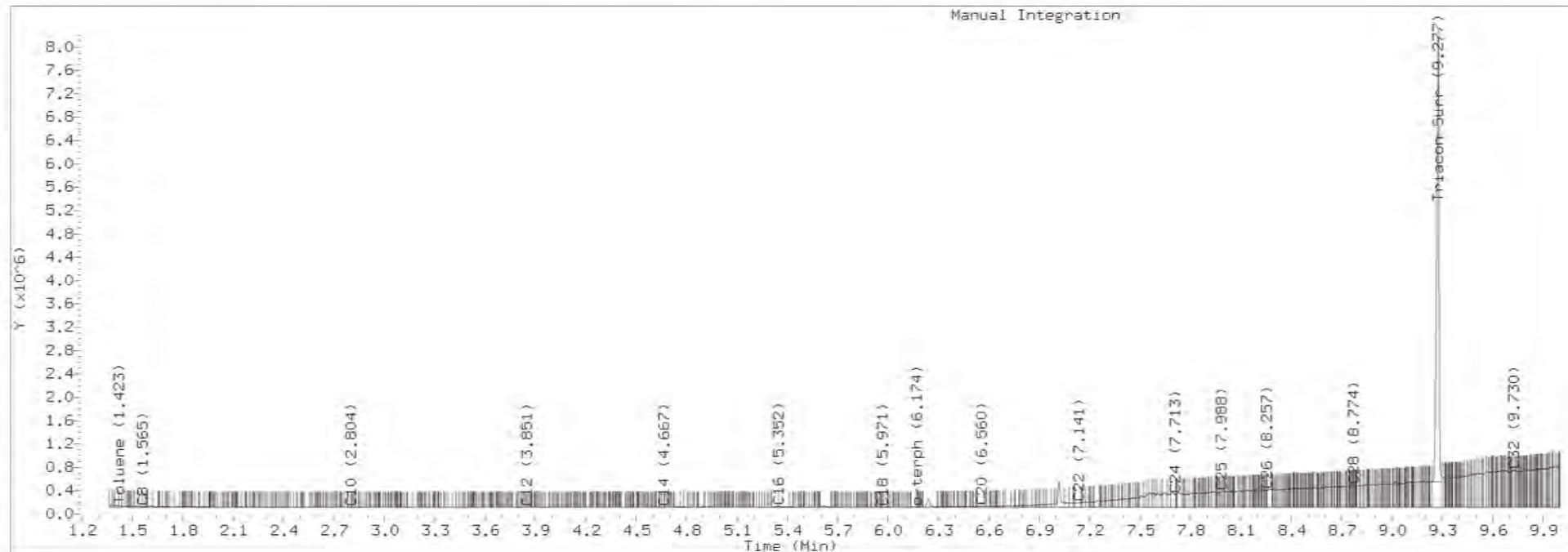
Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0640.D Injection: 06-JAN-2022 23:40

Lab ID:SKA0028-SCV3



MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220106.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 06-JAN-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0920	422A0601.D	RINSE		1	NO MANUAL INTEGRATION
0940	422A0602.D	RINSE		1	NO MANUAL INTEGRATION
0959	422A0603.D	SKA0028-IBL1		1	Toluene,
1019	422A0604.D	SKA0028-IBL2		1	NO MANUAL INTEGRATION
1039	422A0605.D	SKA0028-ICV1		1	o-terph,
1059	422A0606.D	SKA0028-ICV2		1	Triacon Surr,
1119	422A0607.D	BKA0056-BLK1		1	NO MANUAL INTEGRATION
1138	422A0608.D	BKA0056-BS1		1	o-terph,
1158	422A0609.D	BKA0056-MRL1		1	o-terph, Triacon Surr,
1218	422A0610.D	BKA0056-MRL2		1	o-terph, Triacon Surr,
1238	422A0611.D	22A0041-01		1	o-terph,
1258	422A0612.D	22A0041-01		10	Triacon Surr,
1317	422A0613.D	22A0041-02		10	NO MANUAL INTEGRATION
1337	422A0614.D	22A0041-01		20	o-terph, Triacon Surr,
1357	422A0615.D	22A0041-02		20	o-terph, Triacon Surr,
1417	422A0616.D	22A0041-03		20	o-terph, Triacon Surr,
1437	422A0617.D	22A0041-04		20	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220106.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1456	422A0618.D	SKA0028-CCV1		1	o-terph,
1516	422A0619.D	SKA0028-CCV2		1	NO MANUAL INTEGRATION
1704	422A0620.D	SKA0028-CAL1		1	o-terph,
1724	422A0621.D	SKA0028-CAL2		1	o-terph,
1744	422A0622.D	SKA0028-CAL3		1	o-terph,
1804	422A0623.D	SKA0028-CAL4		1	o-terph,
1823	422A0624.D	SKA0028-CAL5		1	o-terph,
1843	422A0625.D	SKA0028-CAL6		1	o-terph,
1903	422A0626.D	SKA0028-CAL7		1	Triacon Surr,
1923	422A0627.D	SKA0028-CAL8		1	Triacon Surr,
1943	422A0628.D	SKA0028-CAL9		1	Triacon Surr,
2002	422A0629.D	SKA0028-CALA		1	Triacon Surr,
2022	422A0630.D	SKA0028-CALB		1	Triacon Surr,
2042	422A0631.D	SKA0028-CALC		1	Triacon Surr,
2102	422A0632.D	SKA0028-SCV1		1	NO MANUAL INTEGRATION
2121	422A0633.D	SKA0028-SCV2		1	NO MANUAL INTEGRATION
2141	422A0634.D	SKA0028-CALD		1	Triacon Surr,
2201	422A0635.D	SKA0028-CALE		1	Triacon Surr,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220106.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2221	422A0636.D	SKA0028-CALF		1	Triacon Surr,
2240	422A0637.D	SKA0028-CALG		1	Triacon Surr,
2300	422A0638.D	SKA0028-CALH		1	Triacon Surr,
2320	422A0639.D	SKA0028-CALI		1	Triacon Surr,
2340	422A0640.D	SKA0028-SCV3		1	Triacon Surr,

Security Status Report

Date: 07-Jan-2022 18:09

422A0601.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0602.D	Data Locked	tokala,	07-Jan-2022	17:54
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422A0604.D	Data Locked	tokala,	07-Jan-2022	17:54
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422A0606.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0607.D	Data Locked	tokala,	07-Jan-2022	17:54
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422A0627.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0628.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0629.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0630.D	Data Locked	tokala,	07-Jan-2022	17:54
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422A0635.D	Data Locked	tokala,	07-Jan-2022	17:54
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422A0637.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0638.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0639.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0640.D	Data Locked	tokala,	07-Jan-2022	17:54

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220106.b\FID4TPH.m
Batch File: \\target\share\chem2\fid4a.i\20220106.b
Inst ID: fid4a.i

Motor Oil RT Study

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 422A0626 422A0627 422A0628 422A0629 422A0630 422A0631
INJ. DATE: 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022
INJ. TIME: 19:03 19:23 19:43 20:02 20:22 20:42

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	1.401	1.414	1.425	1.424	1.424	1.425	1.413	1.313-1.513	1.419	0.010
38 NewCpnd_31	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
35 Mineral Oil	+++++	+++++	+++++	+++++	+++++	+++++	1.015	0.965-1.065	+++++	+++++
41 Mineral Spirits	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
2 C8	1.567	1.564	1.561	1.566	1.577	1.567	1.566	1.466-1.666	1.567	0.005
3 C10	2.807	2.795	2.810	2.796	2.794	2.794	2.801	2.751-2.851	2.799	0.007
4 C12	3.854	3.863	3.860	3.854	3.853	3.854	3.859	3.809-3.909	3.856	0.004
5 C14	4.672	4.668	4.668	4.666	4.669	4.664	4.668	4.618-4.718	4.668	0.003
6 C16	5.358	5.359	5.360	5.356	5.356	5.354	5.356	5.306-5.406	5.357	0.002
7 C18	5.971	5.972	5.970	5.974	5.970	5.968	5.972	5.922-6.022	5.971	0.002
8 o-terph	6.165	6.174	6.163	6.165	6.165	6.164	6.167	6.117-6.217	6.166	0.004
9 C20	6.561	6.563	6.561	6.560	6.559	6.559	6.560	6.510-6.610	6.561	0.002
10 C22	7.144	7.145	7.143	7.144	7.144	7.142	7.141	7.091-7.191	7.143	0.001
11 C24	7.709	7.710	7.705	7.706	7.713	7.708	7.709	7.659-7.759	7.708	0.003
12 C25	7.981	7.985	7.987	7.986	7.984	7.986	7.986	7.936-8.036	7.985	0.002
13 C26	8.253	8.254	8.255	8.247	8.259	8.255	8.257	8.207-8.307	8.254	0.004
14 C28	8.780	8.776	8.780	8.782	8.775	8.772	8.775	8.725-8.825	8.778	0.004

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220106.b\FID4TPH.m
 Batch File: \\target\share\chem2\fid4a.i\20220106.b
 Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
15 Triacon Surr	9.260	9.263	9.269	9.277	9.296	9.319	9.290	9.240-9.340	9.281	0.022
16 C32	9.725	9.726	9.731	9.731	9.731	9.734	9.730	9.680-9.780	9.730	0.004
17 C34	10.169	10.164	10.171	10.167	10.171	10.170	10.167	10.117-10.217	10.169	0.003
18 Filter Peak	13.974	13.970	13.970	13.976	13.973	13.976	13.973	13.873-14.073	13.973	0.002
19 C36	10.580	10.578	10.577	10.587	10.580	10.579	10.581	10.531-10.631	10.580	0.004
20 C38	10.985	10.990	10.987	10.988	10.995	10.994	10.989	10.939-11.039	10.990	0.004
21 C40	11.462	11.459	11.459	11.461	11.461	11.457	11.460	11.410-11.510	11.460	0.002
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.899	0.849-0.949	+++++	+++++
37 ACreosote	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 Jet A	+++++	+++++	+++++	+++++	+++++	+++++	1.024	0.974-1.074	+++++	+++++
30 NW Moil	+++++	+++++	+++++	+++++	+++++	+++++	0.885	0.835-0.935	+++++	+++++
31 NW AK102	+++++	+++++	+++++	+++++	+++++	+++++	0.803	0.753-0.853	+++++	+++++
32 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.812	0.762-0.862	+++++	+++++
33 AK103	+++++	+++++	+++++	+++++	+++++	+++++	1.344	1.294-1.394	+++++	+++++
36 ABunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.985	0.935-1.035	+++++	+++++
39 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
40 NAS Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220106.b\FID4TPH.m
Batch File: \\target\share\chem2\fid4a.i\20220106.b
Inst ID: fid4a.i

AK103 RT Study

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 422A0634 422A0635 422A0636 422A0637 422A0638 422A0639
INJ. DATE: 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022
INJ. TIME: 21:41 22:01 22:21 22:40 23:00 23:20

Table with 11 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include compounds like Toluene, Mineral Oil, C8, C10, C12, C14, C16, C18, o-terph, C20, C22, C24, C25, C26, C28.

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220106.b\FID4TPH.m
 Batch File: \\target\share\chem2\fid4a.i\20220106.b
 Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
15 Triacon Surr	9.262	9.264	9.268	9.276	9.294	9.316	9.290	9.240-9.340	9.280	0.021
16 C32	9.727	9.733	9.727	9.728	9.737	9.730	9.730	9.680-9.780	9.730	0.004
17 C34	10.166	10.167	10.168	10.168	10.167	10.169	10.167	10.117-10.217	10.168	0.001
18 Filter Peak	13.971	13.973	13.971	13.971	13.972	13.974	13.973	13.873-14.073	13.972	0.001
19 C36	10.585	10.578	10.583	10.581	10.582	10.583	10.581	10.531-10.631	10.582	0.002
20 C38	10.986	10.983	10.988	10.990	10.991	10.992	10.989	10.939-11.039	10.988	0.003
21 C40	11.466	11.462	11.463	11.460	11.462	11.459	11.460	11.410-11.510	11.462	0.002
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.899	0.849-0.949	+++++	+++++
37 ACreosote	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 Jet A	+++++	+++++	+++++	+++++	+++++	+++++	1.024	0.974-1.074	+++++	+++++
30 NW Moil	+++++	+++++	+++++	+++++	+++++	+++++	0.885	0.835-0.935	+++++	+++++
31 NW AK102	+++++	+++++	+++++	+++++	+++++	+++++	0.803	0.753-0.853	+++++	+++++
32 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.812	0.762-0.862	+++++	+++++
33 AK103	+++++	+++++	+++++	+++++	+++++	+++++	1.344	1.294-1.394	+++++	+++++
36 ABunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.985	0.935-1.035	+++++	+++++
39 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
40 NAS Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++



ANALYSIS SEQUENCE

SKA0208

Instrument: FID4
Calibration ID: FA00054

Printed: 1/31/2022 12:44:05PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKA0208-IBL1	QC		1		J002430			
SKA0208-IBL2	QC		2		J012751			
SKA0208-CAL1	QC		3		K000192			
SKA0208-CAL2	QC		4		K000193			
SKA0208-CAL3	QC		5		K000194			
SKA0208-CAL4	QC		6		K000195			
SKA0208-CAL5	QC		7		K000196			
SKA0208-CAL6	QC		8		J012752			
SKA0208-SCV1	QC		9		J009677			

Samples Loaded By _____ Date _____ Data Processed By _____ Date _____

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220120.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
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2	20-JAN-2022	10:51	422A2002.D	1	RINSE	
3	20-JAN-2022	11:11	422A2003.D	1	SKA0208-IBL1	
4	20-JAN-2022	11:31	422A2004.D	1	SKA0208-IBL2	
5	20-JAN-2022	11:51	422A2005.D	1	SKA0208-CAL1	
6	20-JAN-2022	12:11	422A2006.D	1	SKA0208-CAL2	
7	20-JAN-2022	12:30	422A2007.D	1	SKA0208-CAL3	
8	20-JAN-2022	12:50	422A2008.D	1	SKA0208-CAL4	
9	20-JAN-2022	13:10	422A2009.D	1	SKA0208-CAL5	
10	20-JAN-2022	13:30	422A2010.D	1	SKA0208-CAL6	
11	20-JAN-2022	13:50	422A2011.D	1	SKA0208-SCV1	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220120.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 20-JAN-2022

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
1032	422A2001.D	RINSE		1	NO MANUAL INTEGRATION
1051	422A2002.D	RINSE		1	NO MANUAL INTEGRATION
1111	422A2003.D	SKA0208-IBL1		1	NO MANUAL INTEGRATION
1131	422A2004.D	SKA0208-IBL2		1	NO MANUAL INTEGRATION
1151	422A2005.D	SKA0208-CAL1		1	o-terph,
1211	422A2006.D	SKA0208-CAL2		1	o-terph,
1230	422A2007.D	SKA0208-CAL3		1	o-terph,
1250	422A2008.D	SKA0208-CAL4		1	o-terph,
1310	422A2009.D	SKA0208-CAL5		1	o-terph,
1330	422A2010.D	SKA0208-CAL6		1	o-terph,
1350	422A2011.D	SKA0208-SCV1		1	NO MANUAL INTEGRATION

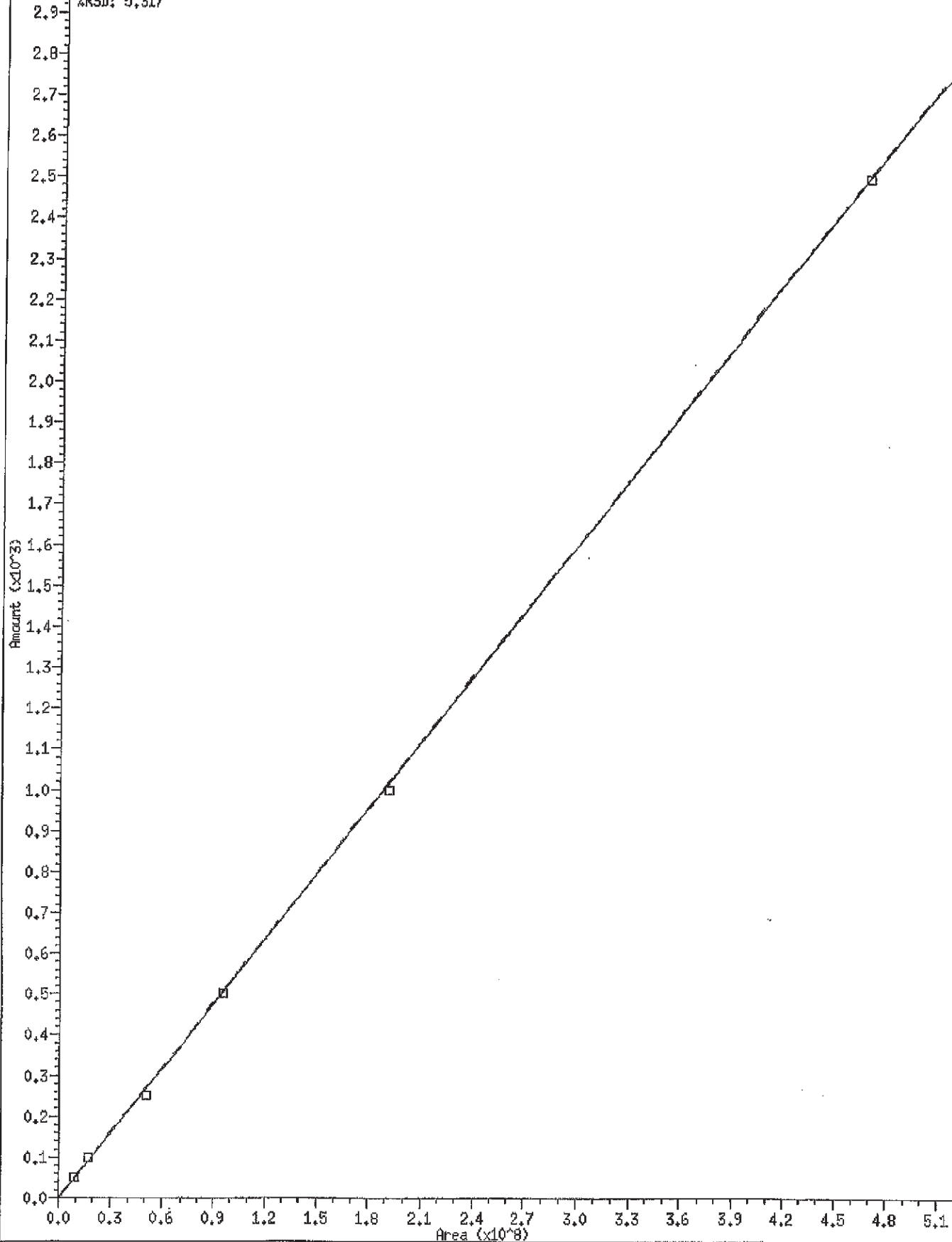
Security Status Report

Date: 31-Jan-2022 12:44

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422A2007.D	Data Locked	victoria,	21-Jan-2022	13:24
422A2008.D	Data Locked	victoria,	21-Jan-2022	13:24
422A2009.D	Data Locked	victoria,	21-Jan-2022	13:24
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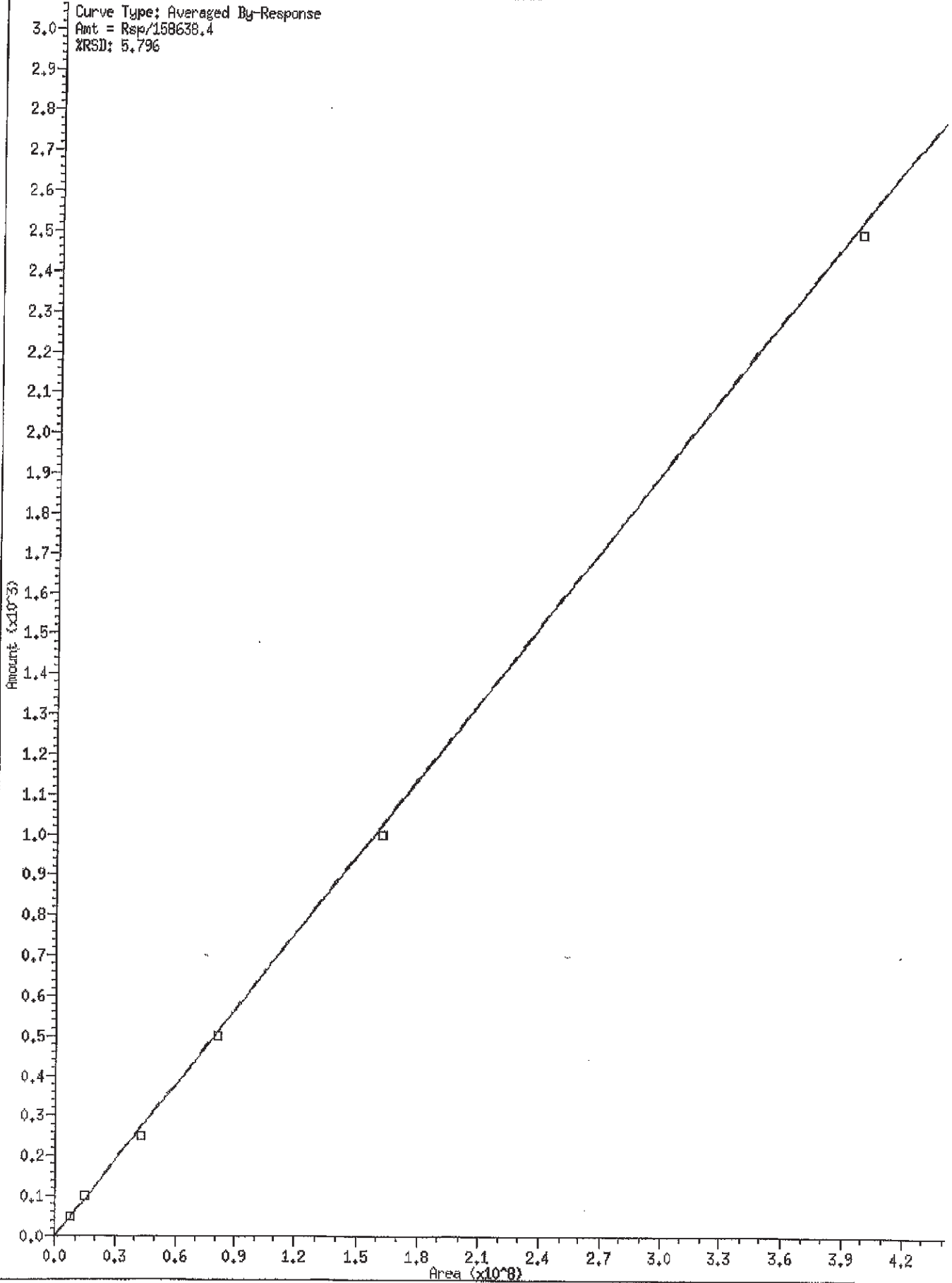
40 NAS Diesel

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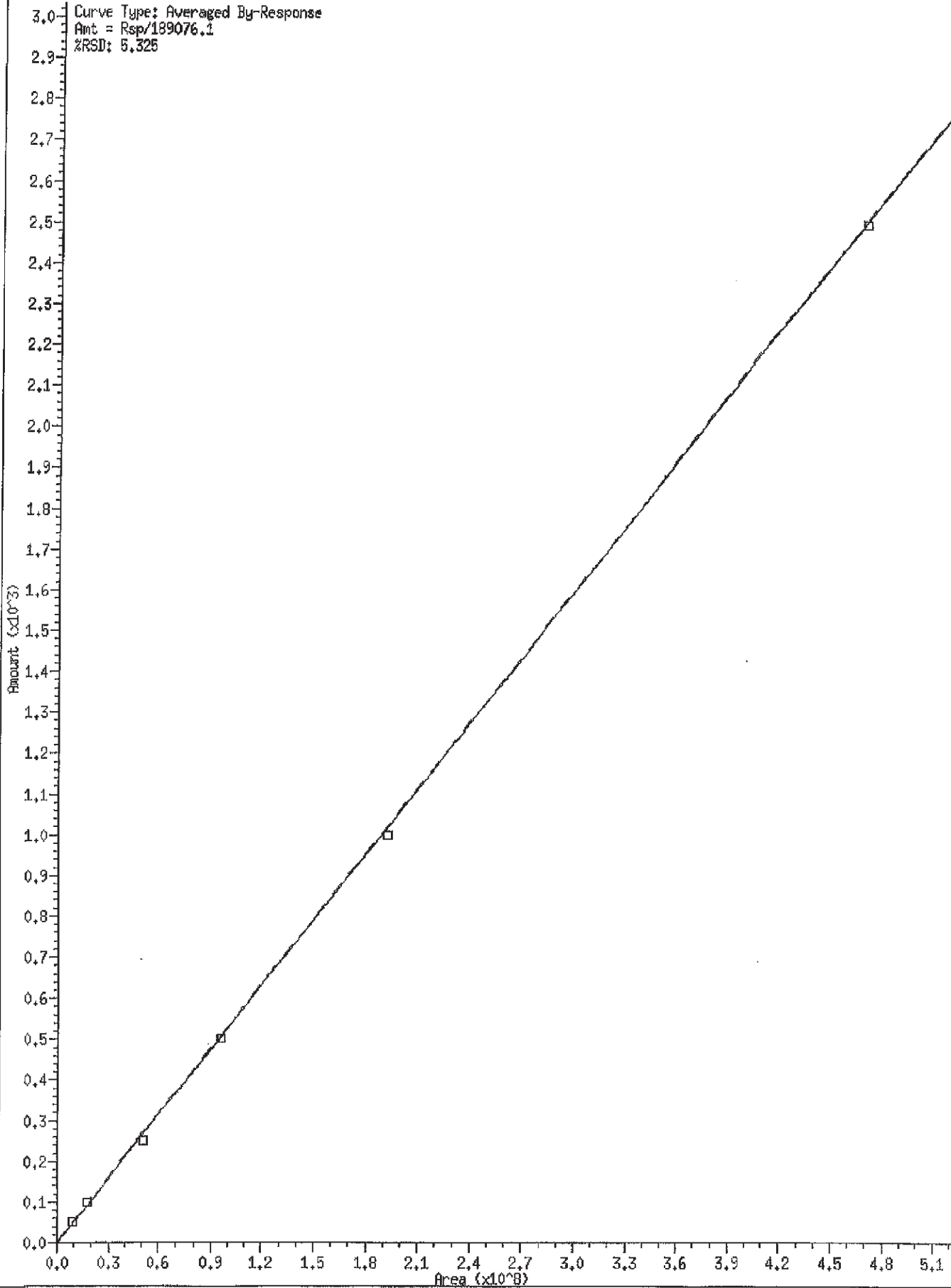
29 NW Diesel

Curve Type: Averaged By-Response
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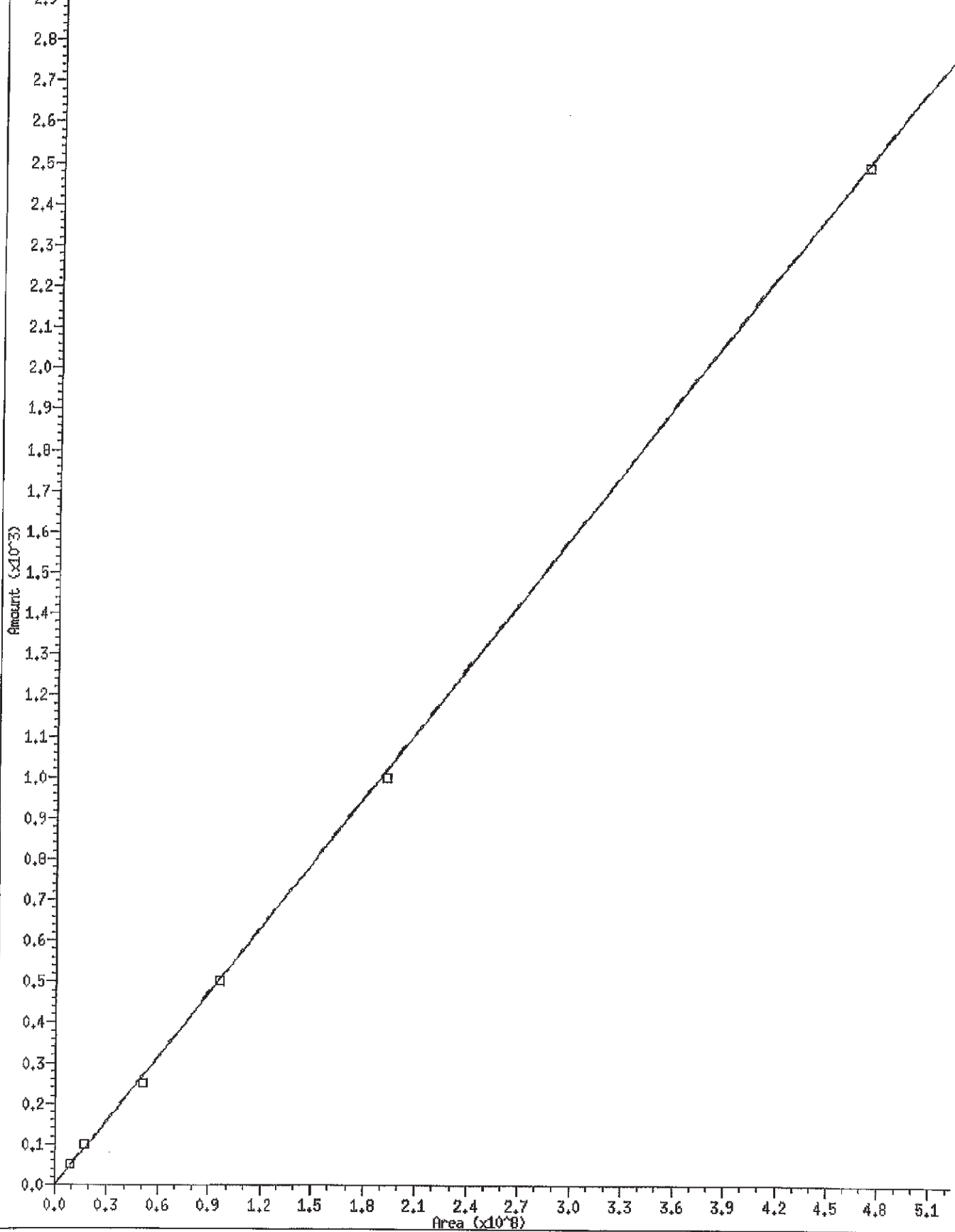
31 NW AK102

Curve Type: Averaged By-Response
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%RSD: 5.325



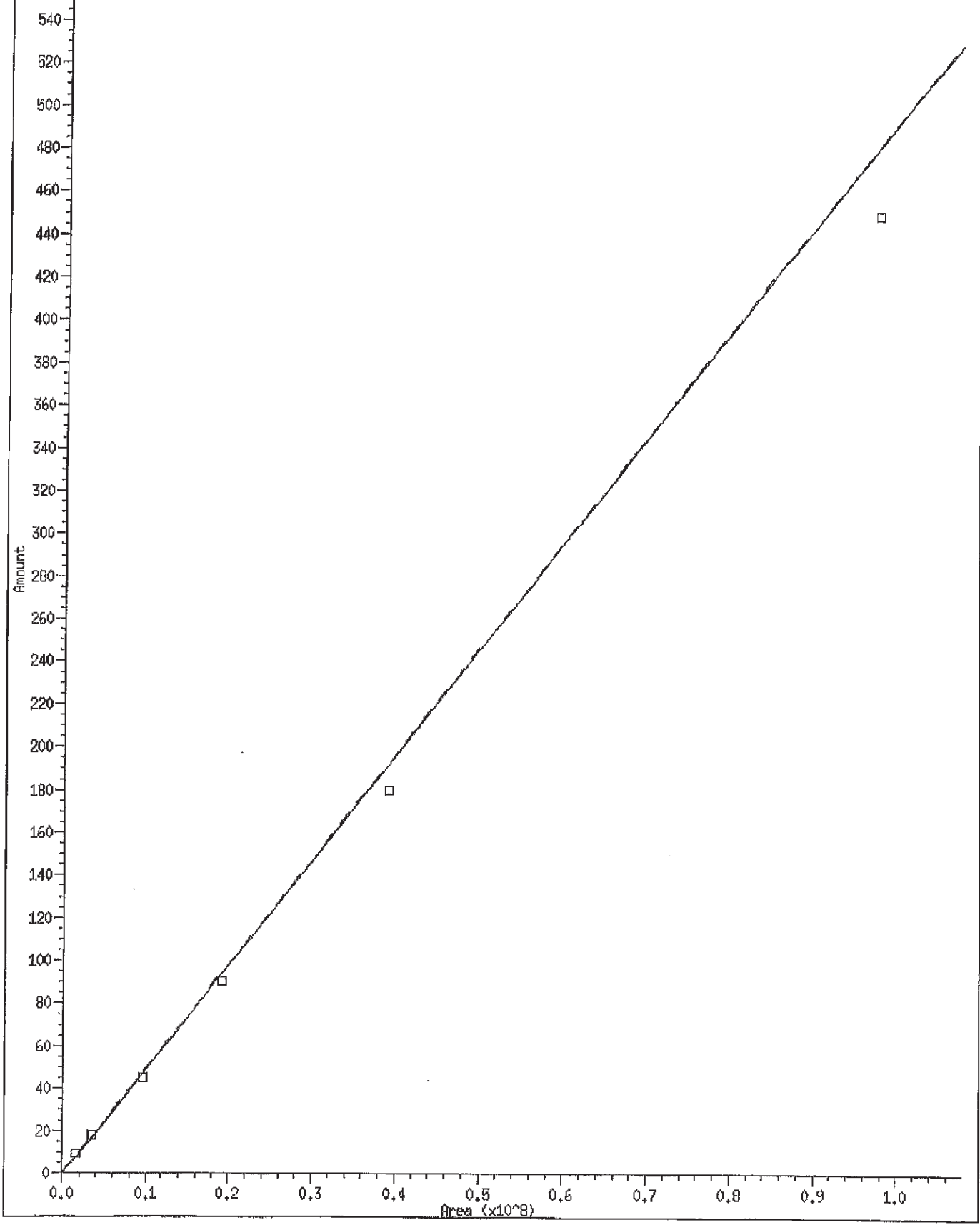
39 OR Diesel

Curve Type: Averaged By-Response
Amt = Rsp/189743
%RSD: 5,249



* 8 o-terph

Curve Type: Averaged By-Response
Amt = Rep/203634.1
%RSD: 9.902



ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220120.b\FID4TPH.m
Batch File: \\target\share\chem2\fid4a.i\20220120.b
Inst ID: fid4a.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07 RT08
FILENAME: 422A2003 422A2004 422A2005 422A2006 422A2007 422A2008 422A2009 422A2010
INJ.DATE: 20-JAN-2022 20-JAN-2022 20-JAN-2022 20-JAN-2022 20-JAN-2022 20-JAN-2022 20-JAN-2022 20-JAN-2022
INJ.TIME: 11:11 11:31 11:51 12:11 12:30 12:50 13:10 13:30

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RTI	RT WINDOW	AVG RT	STD DEV
1 Toluene	1.395	1.389	1.389	1.400	1.389	1.389	1.389	1.394	1.395	1.295-1.495	1.392	0.004
38 NewCpd_31	++++	++++	++++	++++	++++	++++	++++	++++	1.000	0.950-1.050	++++	++++
35 Mineral Oil	++++	++++	++++	++++	++++	++++	++++	++++	1.015	0.965-1.065	++++	++++
41 Mineral Spirits	++++	++++	++++	++++	++++	++++	++++	++++	1.000	0.950-1.050	++++	++++
2 C8	1.543	1.540	1.535	1.552	1.536	1.536	1.536	1.542	1.543	1.443-1.643	1.540	0.006
3 C10	2.787	2.783	2.783	2.783	2.783	2.783	2.784	2.786	2.787	2.737-2.837	2.784	0.002
4 C12	3.848	3.848	3.844	3.845	3.844	3.845	3.847	3.851	3.848	3.798-3.898	3.847	0.003
5 C14	4.657	4.657	4.653	4.654	4.654	4.655	4.658	4.664	4.657	4.607-4.707	4.657	0.003
6 C16	5.345	5.347	5.340	5.341	5.342	5.344	5.347	5.355	5.345	5.295-5.395	5.345	0.005
7 C18	5.962	5.956	5.954	5.956	5.958	5.960	5.965	5.975	5.962	5.912-6.012	5.961	0.007
8 o-terph	6.155	6.154	6.133	6.137	6.146	6.154	6.165	6.191	6.155	6.105-6.205	6.154	0.018
9 C20	6.548	6.545	6.543	6.542	6.543	6.543	6.545	6.551	6.548	6.498-6.598	6.545	0.003
10 C22	7.130	7.128	7.123	7.123	7.123	7.123	7.124	7.127	7.130	7.080-7.180	7.125	0.003
11 C24	7.697	7.695	7.695	7.694	7.691	7.690	7.690	7.691	7.697	7.647-7.747	7.693	0.003
12 C25	7.974	7.976	7.972	7.970	7.968	7.968	7.967	7.966	7.974	7.924-8.024	7.970	0.004
13 C26	8.244	8.243	8.242	8.244	8.240	8.238	8.237	8.236	8.244	8.194-8.294	8.241	0.003
14 C28	8.763	8.757	8.764	8.765	8.765	8.759	8.767	8.756	8.763	8.713-8.813	8.762	0.004

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

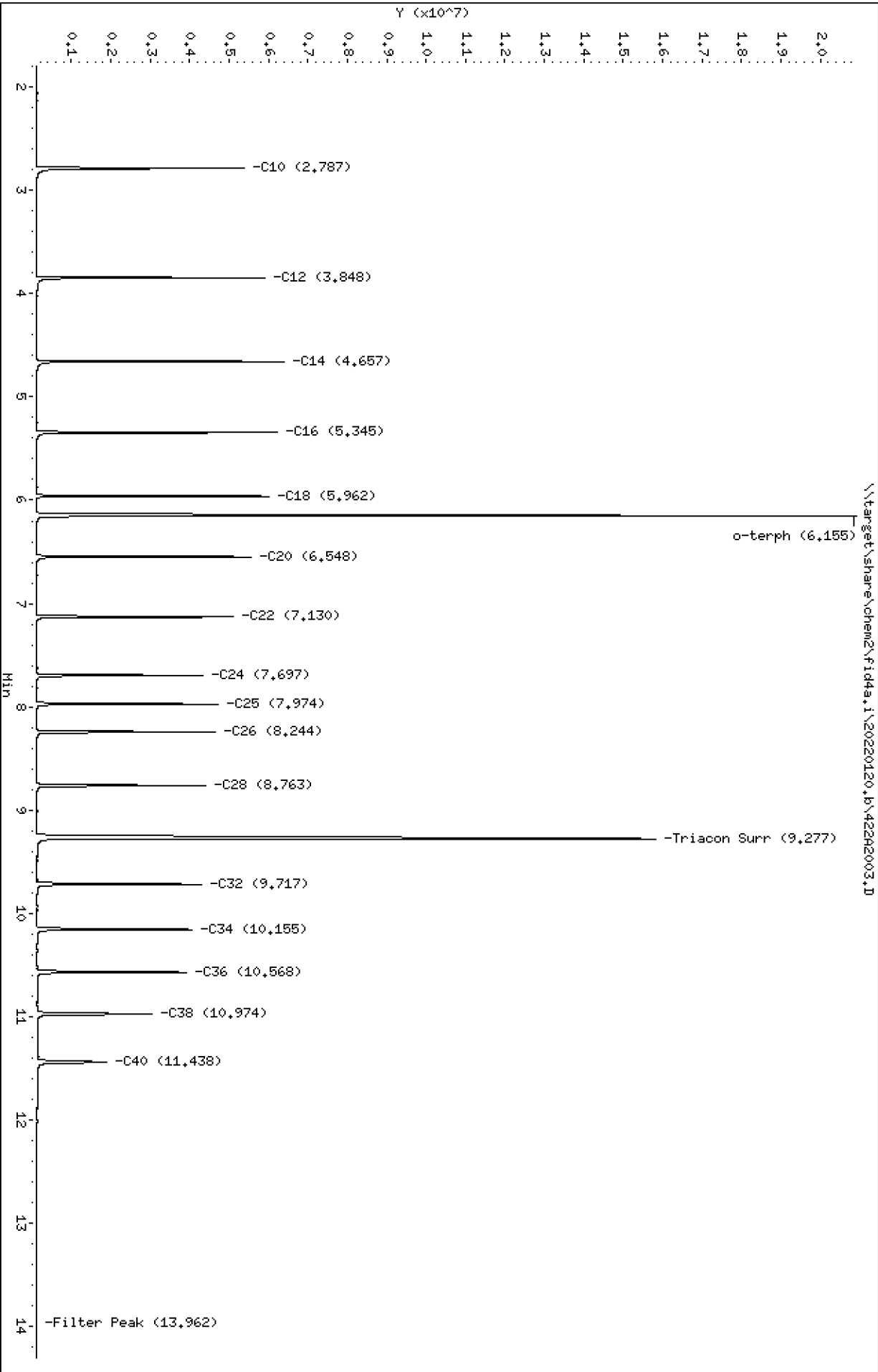
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Batch File: \\target\share\chem2\fid4a.i\20220120.b
Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXEC RT	RT WINDOW	AVG RT	STD DEV
\$ 15 Triacon Surr	9.277	9.273	9.273	9.280	9.275	9.286	9.266	9.273	9.277	9.227-9.327	9.276	0.006
16 C32	9.717	9.711	9.713	9.720	9.711	9.709	9.718	9.706	9.717	9.667-9.767	9.713	0.005
17 C34	10.155	10.156	10.147	10.153	10.158	10.154	10.156	10.161	10.155	10.105-10.205	10.155	0.004
18 Filter Peak	13.962	13.962	13.963	13.963	13.962	13.960	13.960	13.961	13.962	13.862-14.062	13.962	0.001
19 C36	10.568	10.567	10.572	10.567	10.567	10.573	10.563	10.567	10.568	10.518-10.618	10.568	0.003
20 C38	10.974	10.980	10.978	10.975	10.973	10.970	10.975	10.978	10.974	10.924-11.024	10.975	0.003
21 C40	11.438	11.438	11.441	11.440	11.441	11.434	11.439	11.440	11.438	11.388-11.488	11.439	0.002
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.899	0.849-0.949	+++++	+++++
37 ACresote	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 Jet A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.024	0.974-1.074	+++++	+++++
30 NW Moll	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.885	0.835-0.935	+++++	+++++
31 NW AK102	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.803	0.753-0.853	+++++	+++++
32 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.812	0.762-0.862	+++++	+++++
33 AK103	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.344	1.294-1.394	+++++	+++++
36 ABunker C	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.985	0.935-1.035	+++++	+++++
39 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
40 NAS Diesel	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++

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Date: 20-JAN-2022 11:11
Client ID:
Sample Info: SKR0208-IBL1

Column phase: RTX-1

Instrument: fid4a,1
Operator: WLB
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2003.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-IBL1
Client ID:
Injection: 20-JAN-2022 11:11
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.543	0.000	5560015	3947616	WATPHD	(C12-C24)	23617052	148.9
C10	2.787	0.000	5257595	4154719	WATPHM	(C24-C38)	27587850	208.1
C12	3.848	0.000	5795256	4012752	AK102	(C10-C25)	32327943	171.0
C14	4.657	0.000	6275090	3977443	AK103	(C25-C36)	23810222	240.7
C16	5.345	0.000	6103254	3896081	OR.DIES	(C10-C28)	43679867	230.2
C18	5.962	0.000	5903807	3840006				
C20	6.548	0.000	5462588	3811770				
C22	7.130	0.000	4979358	3790620				
C24	7.697	0.000	4232069	3304139				
C25	7.974	0.000	4626242	3678752				
C26	8.244	0.000	4539215	3752840				
C28	8.763	0.000	4290214	3737829				
C32	9.717	0.000	4178760	3963601				
C34	10.155	0.000	3931080	3725805				
Filter Peak	13.962	0.000	15777	8644				
C36	10.568	0.000	3821518	3732386				
C38	10.974	0.000	2949989	3352397				
C40	11.438	0.000	1790104	2604261				
o-terph	6.155	0.000	20813166	20730774				
Triacon Surr	9.277	0.000	15699693	21934844	NAS DIES	(C10-C24)	32260091	171.0

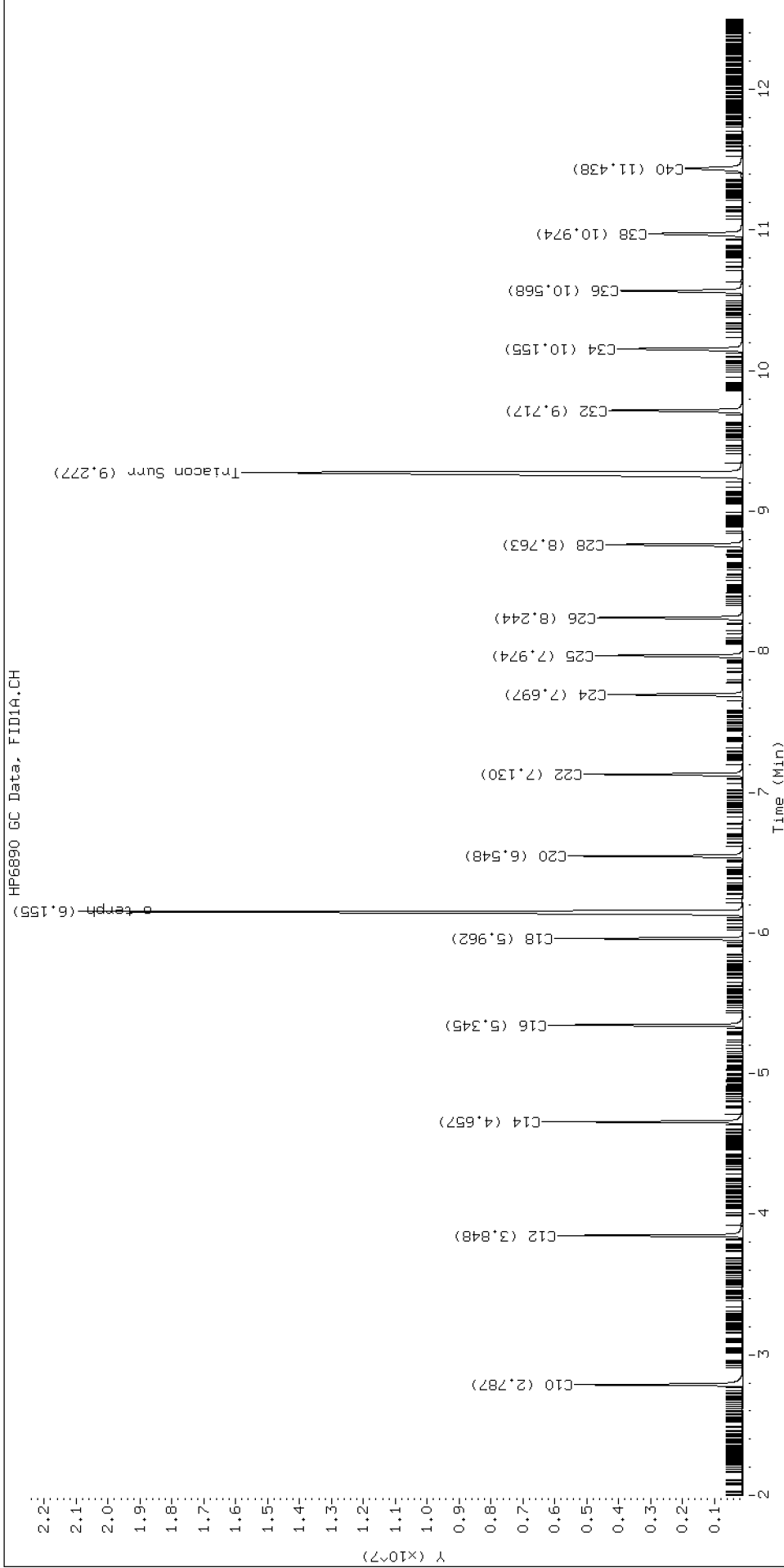
Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	20730774	101.8
Triacontane	21934844	125.9

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022

HP6890 GC Data, FID1A.CH



Data File: \\target\share\chem2\fid4a,1\20220120,8\42282004.D

Date: 20-JAN-2022 11:31

Client ID:

Sample Info: SKR0208-IBL2

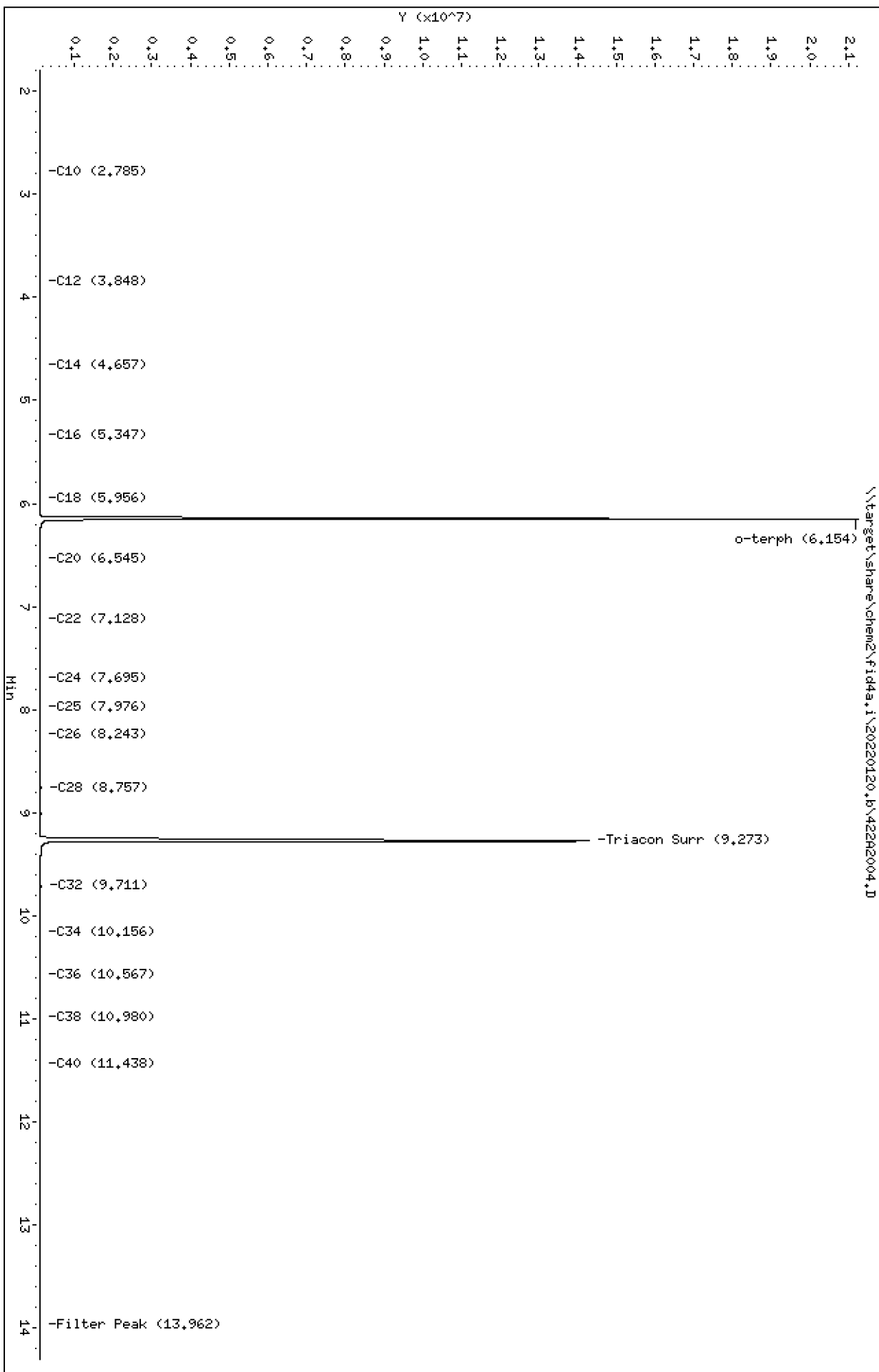
Column phase: RTX-1

Instrument: fid4a,1

Operator: WLB

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2004.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-IBL2
Client ID:
Injection: 20-JAN-2022 11:31
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

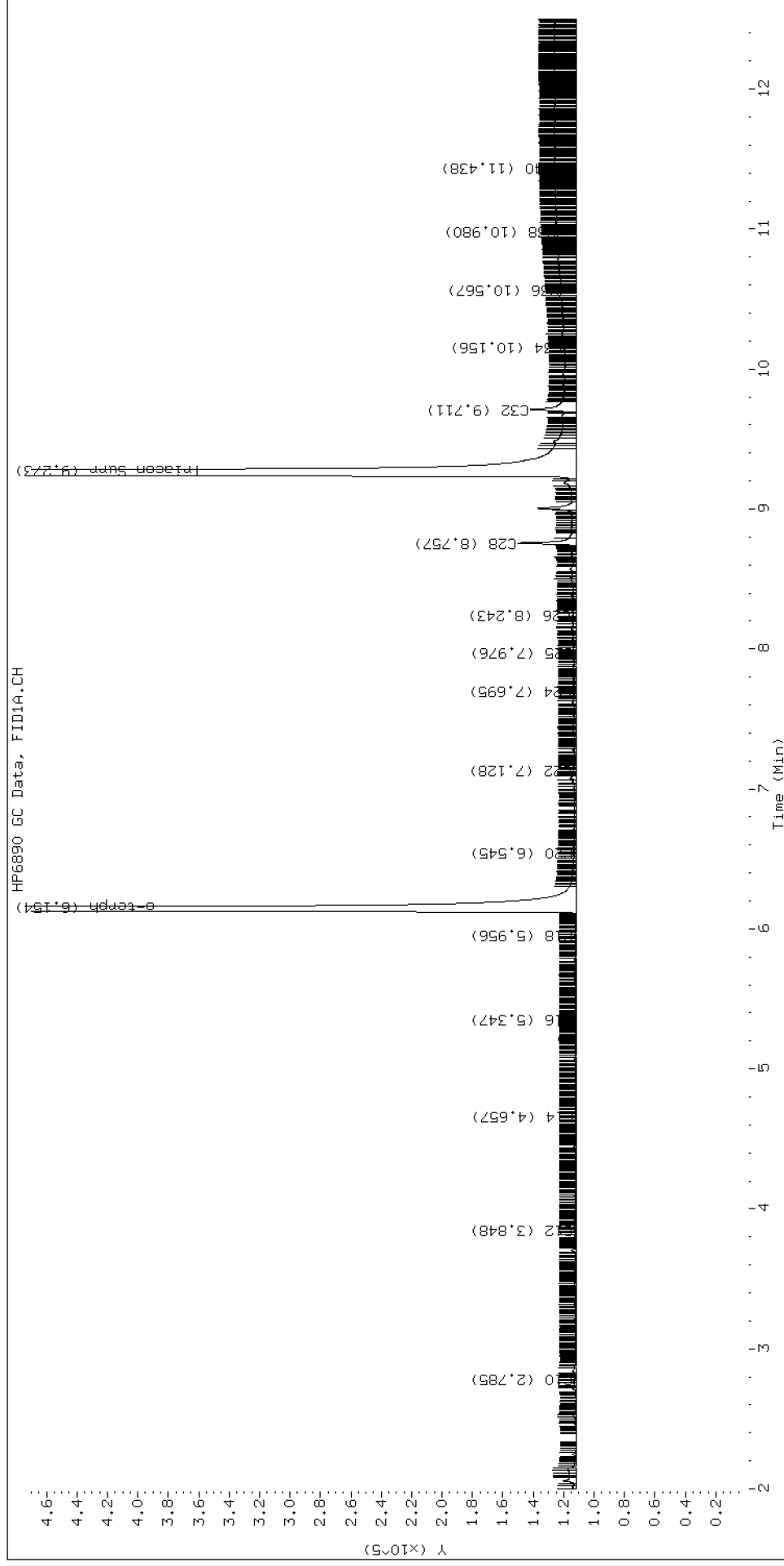
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.540	-0.003	15479	14810	WATPHD	(C12-C24)	298978	1.9
C10	2.785	-0.003	1495	786	WATPHM	(C24-C38)	1251776	9.4
C12	3.848	-0.000	1344	663	AK102	(C10-C25)	392294	2.1
C14	4.657	-0.001	1157	339	AK103	(C25-C36)	955410	9.7
C16	5.347	0.002	1328	496	OR.DIES	(C10-C28)	565052	3.0
C18	5.956	-0.006	1363	1047				
C20	6.545	-0.003	1608	397				
C22	7.128	-0.002	2457	1762				
C24	7.695	-0.002	2125	1126				
C25	7.976	0.002	1991	477				
C26	8.243	-0.001	2719	3771				
C28	8.757	-0.007	38550	47130				
C32	9.711	-0.007	30192	67900				
C34	10.156	0.001	8378	4977				
Filter Peak	13.962	-0.001	7511	4039				
C36	10.567	-0.001	10258	2046				
C38	10.980	0.006	12853	4480				
C40	11.438	-0.000	14608	4362				
o-terph	6.154	-0.001	21141491	20862500				
Triacon Surr	9.273	-0.004	14181219	18420470	NAS DIES	(C10-C24)	374770	2.0

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	20862500	102.5
Triacontane	18420470	105.7

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



Data File: \\target\share\chem2\fid4a,1\20220120,6\42282005.D

Date: 20-JAN-2022 11:51

Client ID:

Sample Info: SKR0208-CAL1

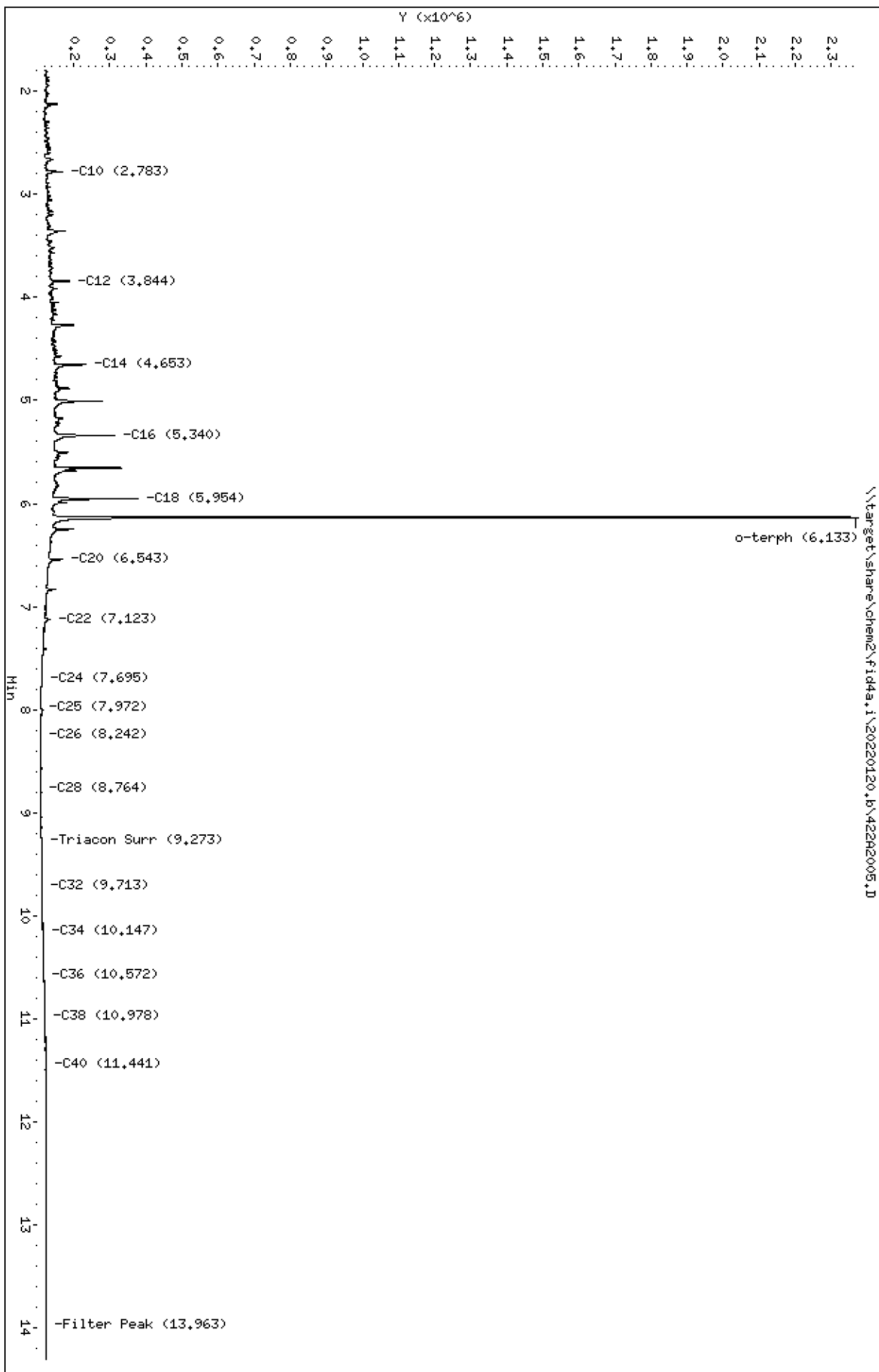
Column phase: RTX-1

Instrument: fid4a,1

Operator: WLB

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2005.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-CAL1
Client ID:
Injection: 20-JAN-2022 11:51
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

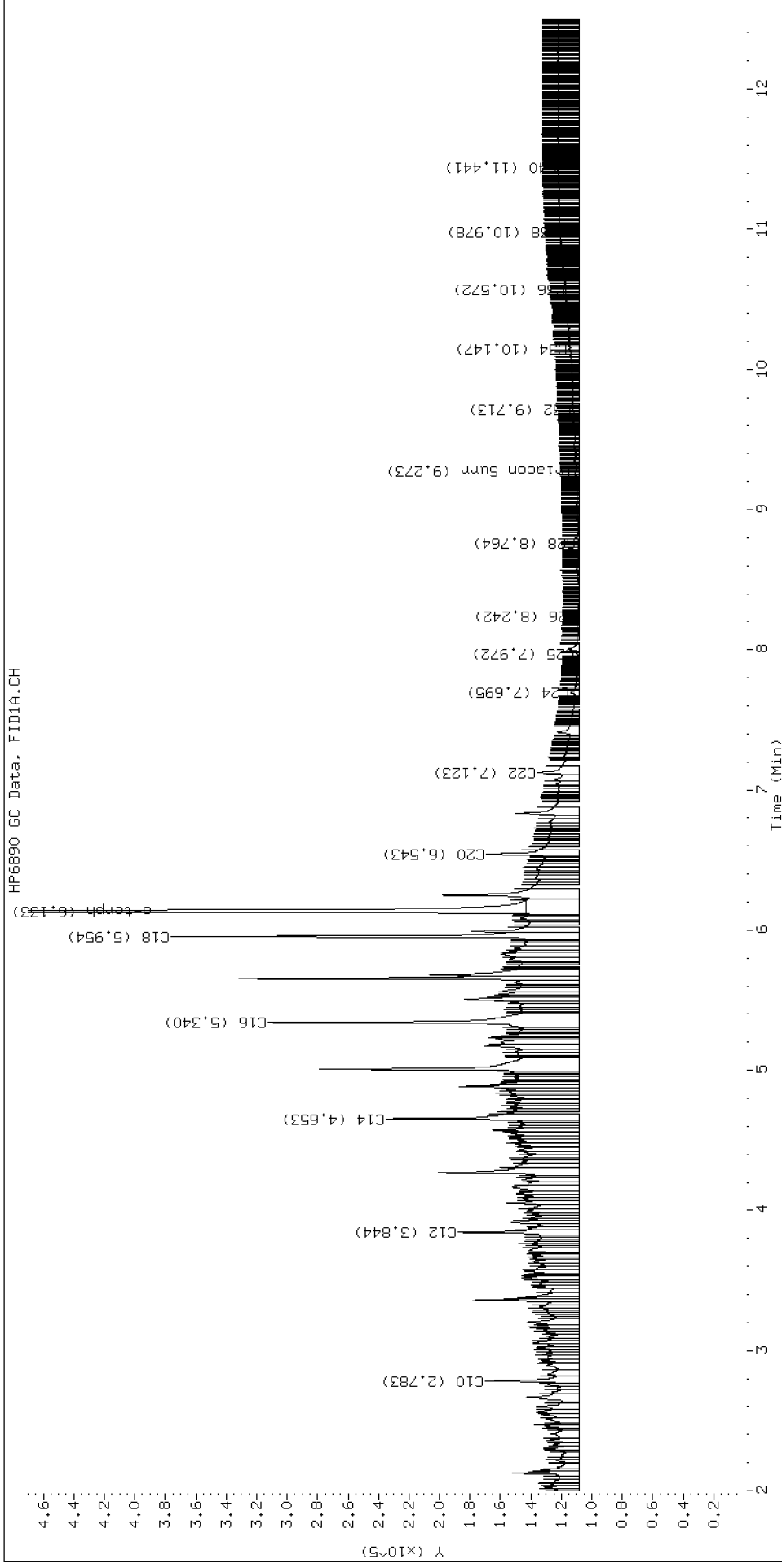
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.535	-0.008	27708	30045	WATPHD	(C12-C24)	7444121	46.9
C10	2.783	-0.004	61539	83608	WATPHM	(C24-C38)	767210	5.8
C12	3.844	-0.004	79540	103209	AK102	(C10-C25)	9159711	48.4
C14	4.653	-0.004	126464	188042	AK103	(C25-C36)	482448	4.9
C16	5.340	-0.005	204117	392474	OR.DIES	(C10-C28)	9209141	48.5
C18	5.954	-0.007	268242	283820				
C20	6.543	-0.006	61351	95012				
C22	7.123	-0.007	27453	56580				
C24	7.695	-0.002	5379	8568				
C25	7.972	-0.002	1900	2385				
C26	8.242	-0.002	725	374				
C28	8.764	0.001	1235	294				
C32	9.713	-0.004	4459	4594				
C34	10.147	-0.008	7029	7616				
Filter Peak	13.963	0.000	14649	5098				
C36	10.572	0.003	8505	3791				
C38	10.978	0.003	12334	4290				
C40	11.441	0.003	13915	4805				
o-terph	6.133	-0.022	2231788	1499503				
Triacon Surr	9.273	-0.004	2529	1233	NAS DIES	(C10-C24)	9143618	48.5

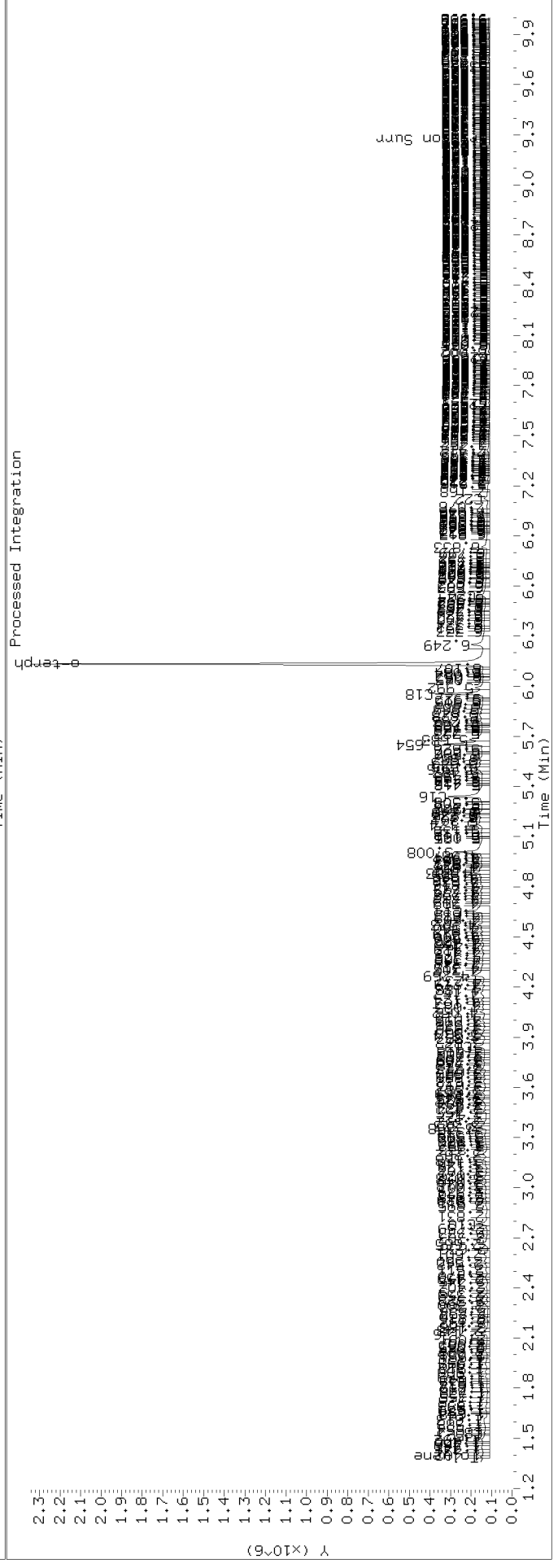
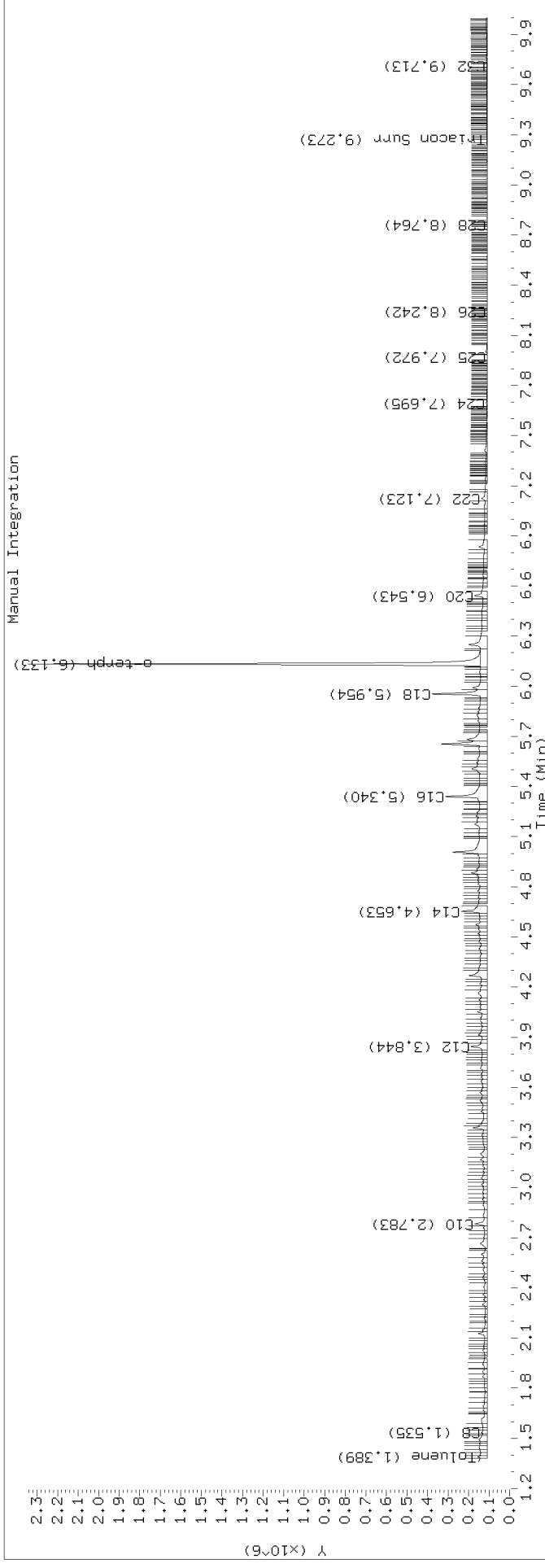
Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	1499503	7.4 M
Triacontane	1233	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022





Data File: \\target\share\chem2\fid4a,1\20220120,b\42282006.D

Date: 20-JAN-2022 12:11

Client ID:

Sample Info: SKR0208-CAL2

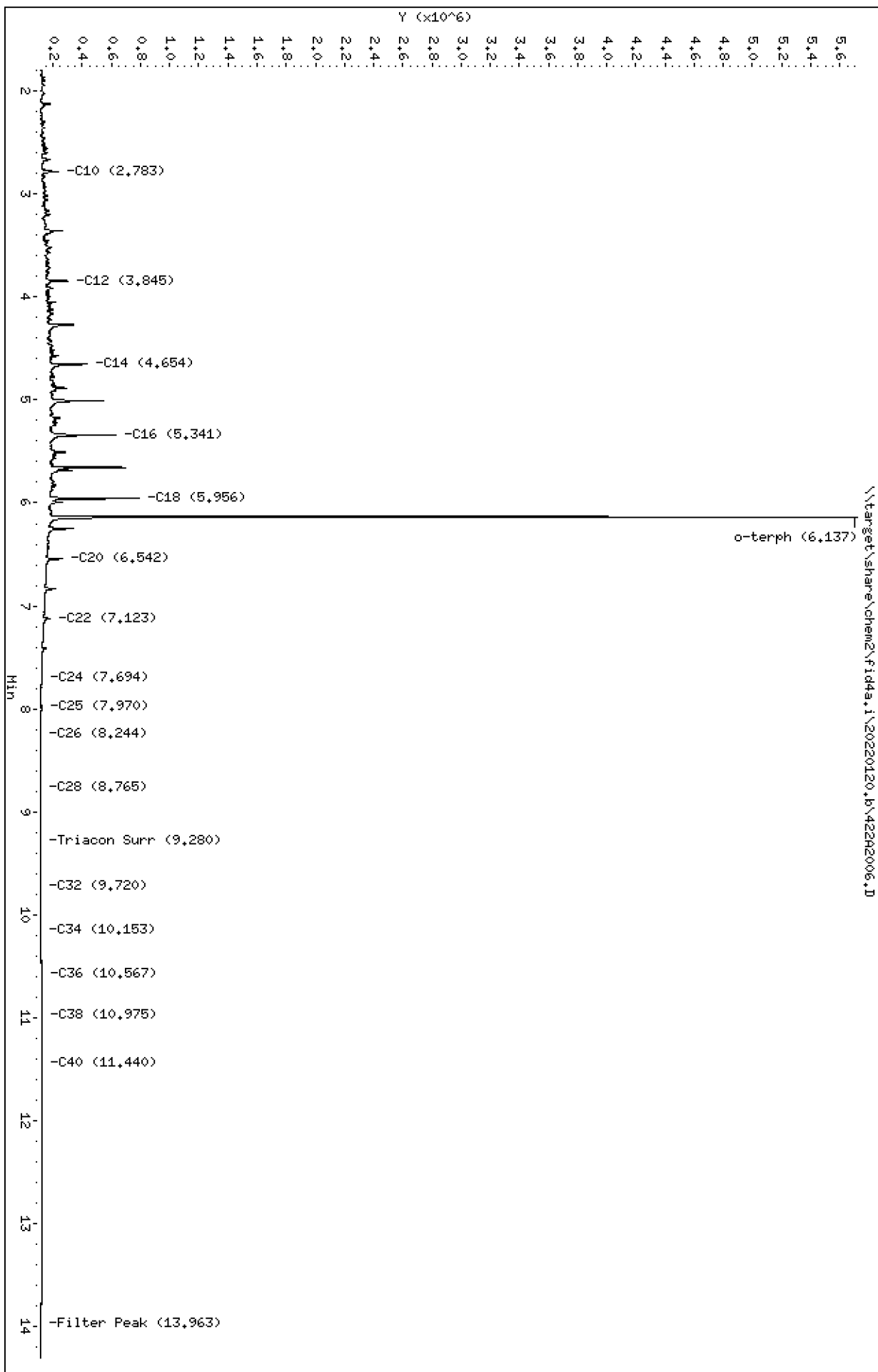
Column phase: RTX-1

Instrument: fid4a,1

Operator: WLB

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2006.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-CAL2
Client ID:
Injection: 20-JAN-2022 12:11
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.552	0.009	16555	16726	WATPHD	(C12-C24)	14707395	92.7
C10	2.783	-0.004	126688	134636	WATPHM	(C24-C38)	469166	3.5
C12	3.845	-0.004	184172	214747	AK102	(C10-C25)	17413082	92.1
C14	4.654	-0.004	317298	320236	AK103	(C25-C36)	269684	2.7
C16	5.341	-0.004	520196	598541	OR.DIES	(C10-C28)	17485049	92.2
C18	5.956	-0.005	674723	654694				
C20	6.542	-0.006	153245	209870				
C22	7.123	-0.007	69858	101420				
C24	7.694	-0.003	13882	26216				
C25	7.970	-0.004	4951	7165				
C26	8.244	-0.000	2511	3354				
C28	8.765	0.001	871	304				
C32	9.720	0.003	1890	752				
C34	10.153	-0.002	2745	1844				
Filter Peak	13.963	0.001	3721	2548				
C36	10.567	-0.001	5488	2082				
C38	10.975	0.001	7723	2304				
C40	11.440	0.002	9453	3292				
o-terph	6.137	-0.018	5533733	3490480				
Triacon Surr	9.280	0.002	571	159	NAS DIES	(C10-C24)	17379670	92.1

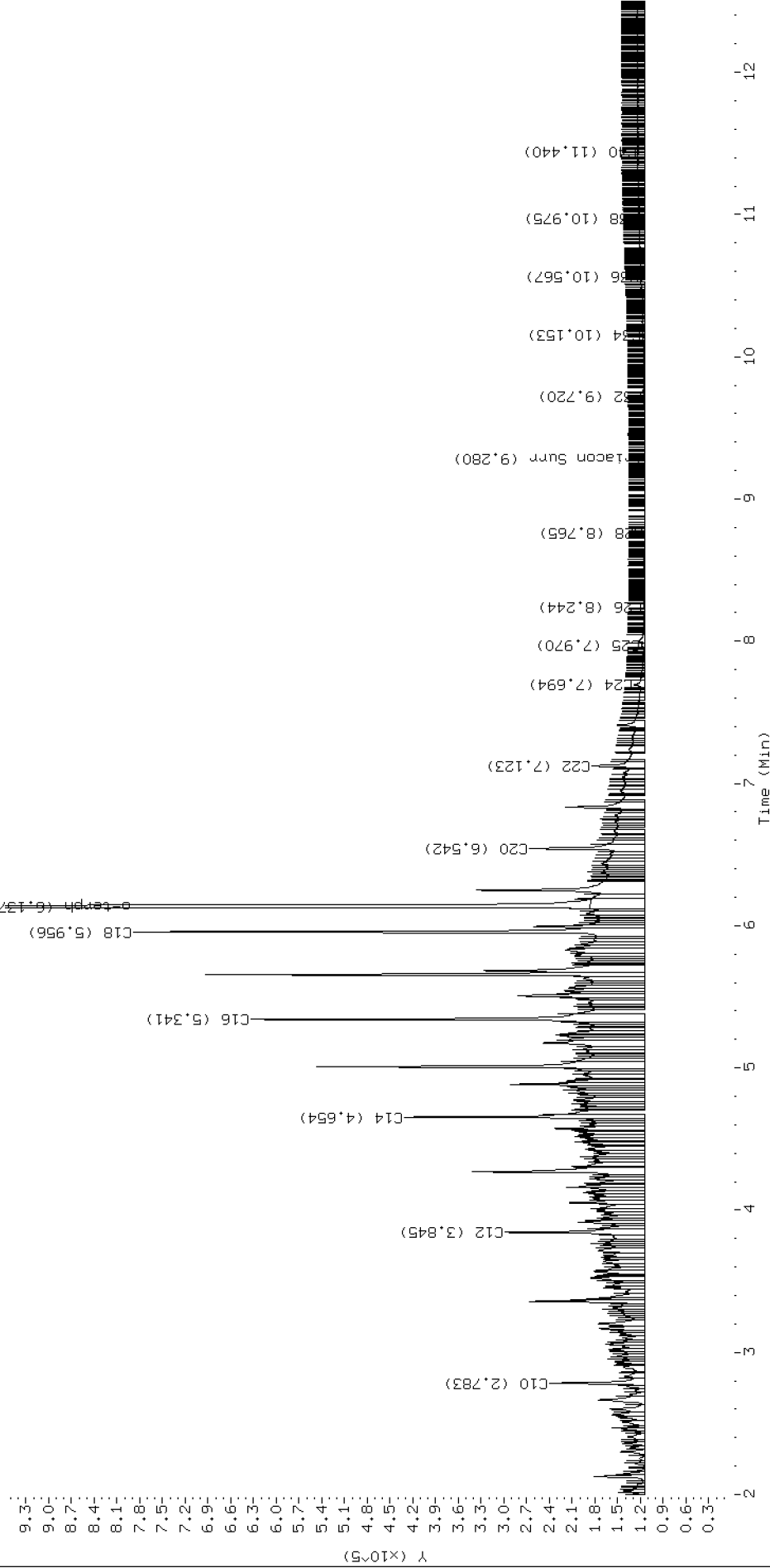
Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

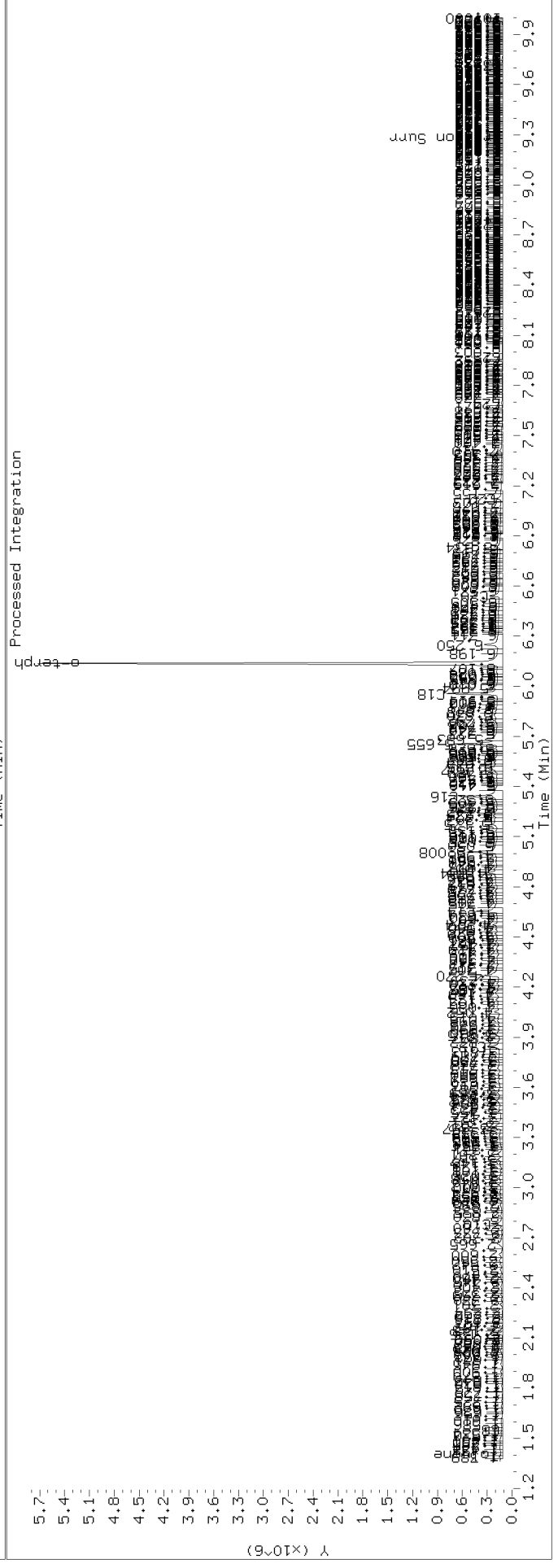
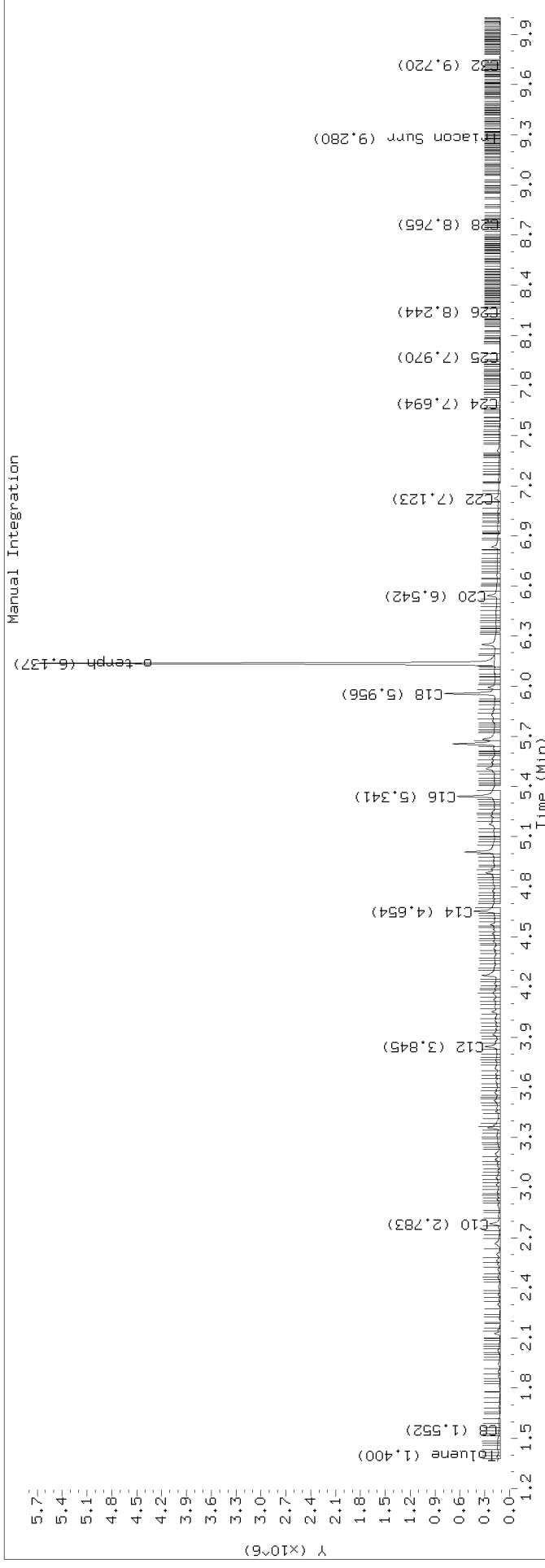
Surrogate	Area	Amount
o-Terphenyl	3490480	17.1 M
Triacontane	159	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022

HP6890 GC Data, FID1A.CH





Data File: \\target\share\chem2\fid4a,1\20220120,b\42282007.D

Date: 20-JAN-2022 12:30

Client ID:

Sample Info: SKR0208-CAL3

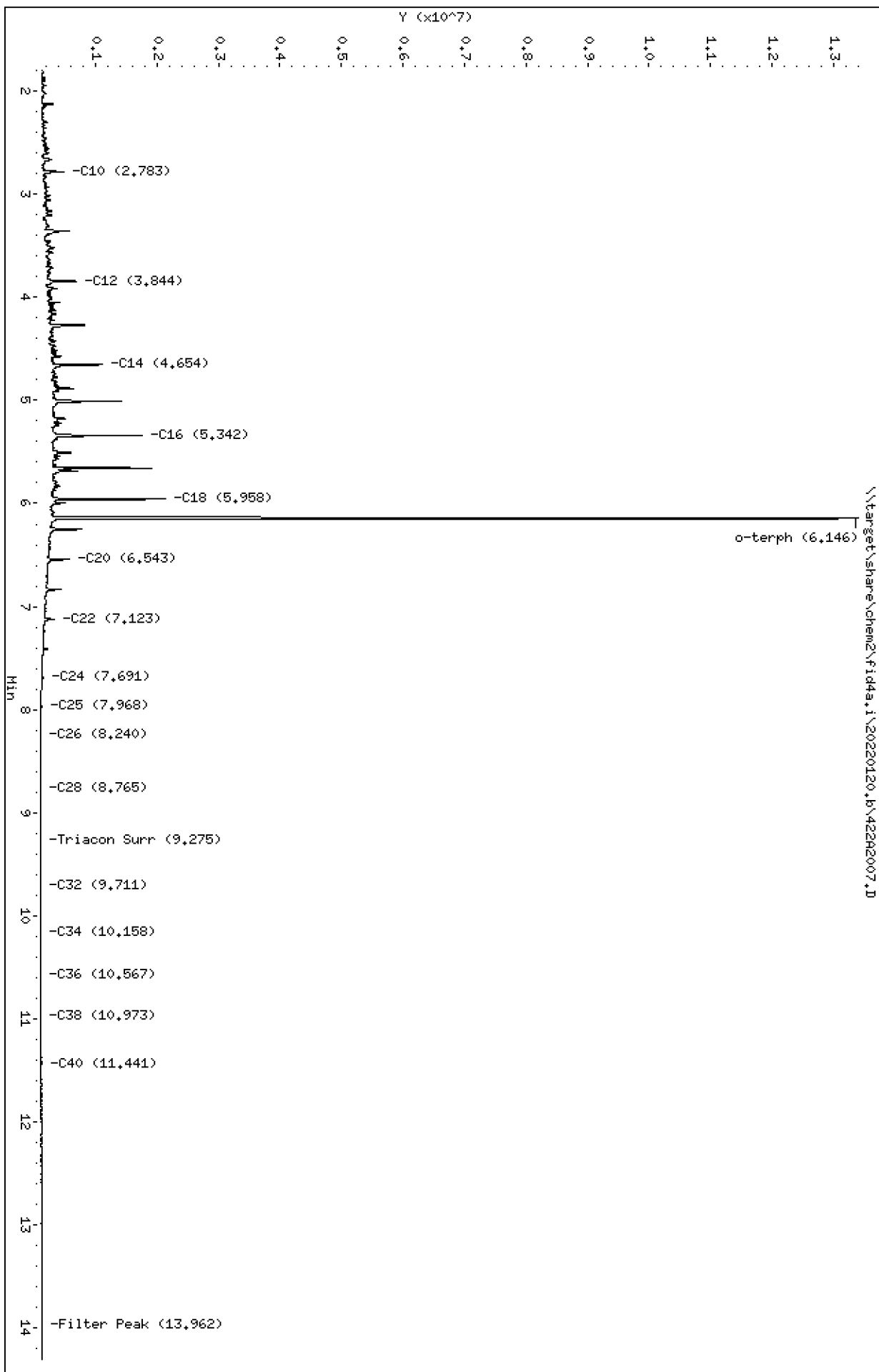
Column phase: RTX-1

Instrument: fid4a,1

Operator: WLB

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2007.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-CAL3
Client ID:
Injection: 20-JAN-2022 12:30
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

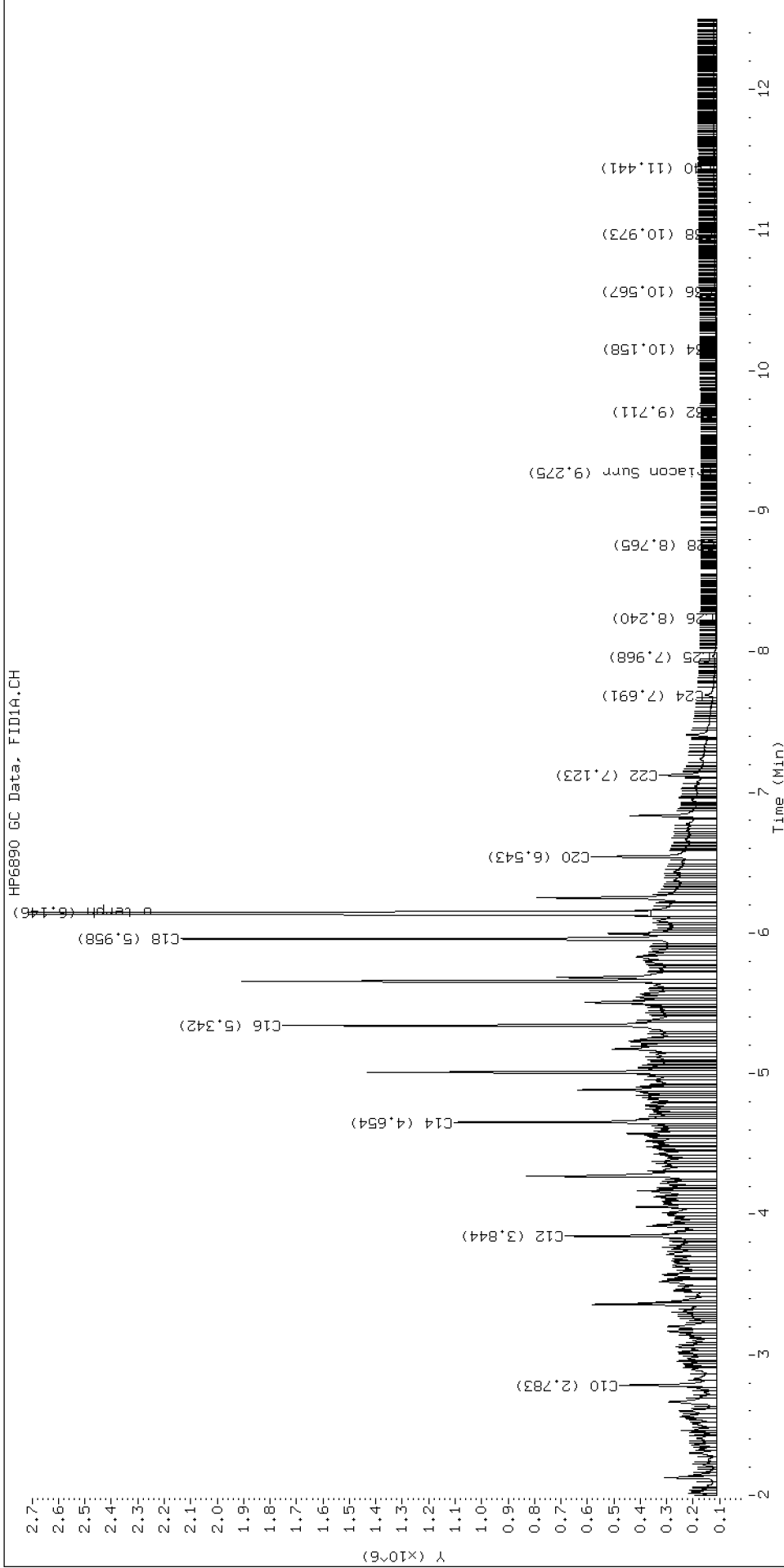
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.536	-0.007	51595	42492	WATPHD	(C12-C24)	42908766	270.5
C10	2.783	-0.004	369838	415697	WATPHM	(C24-C38)	683453	5.2
C12	3.844	-0.004	574678	650857	AK102	(C10-C25)	51100202	270.3
C14	4.654	-0.003	992557	1057075	AK103	(C25-C36)	381818	3.9
C16	5.342	-0.003	1641082	1885470	OR.DIES	(C10-C28)	51231288	270.0
C18	5.958	-0.003	2026462	1878870				
C20	6.543	-0.006	475588	745557				
C22	7.123	-0.007	218531	281405				
C24	7.691	-0.006	44690	100420				
C25	7.968	-0.006	16146	27786				
C26	8.240	-0.004	5708	10536				
C28	8.765	0.002	941	568				
C32	9.711	-0.006	2516	1668				
C34	10.158	0.003	3950	1769				
Filter Peak	13.962	-0.001	12364	12175				
C36	10.567	-0.001	6446	3827				
C38	10.973	-0.001	8914	4432				
C40	11.441	0.003	11408	14149				
o-terph	6.146	-0.009	13042333	9641147				
Triacon Surr	9.275	-0.002	679	442	NAS DIES	(C10-C24)	50995409	270.3

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	9641147	47.3 M
Triacontane	442	0.0

M Indicates the peak was manually integrated

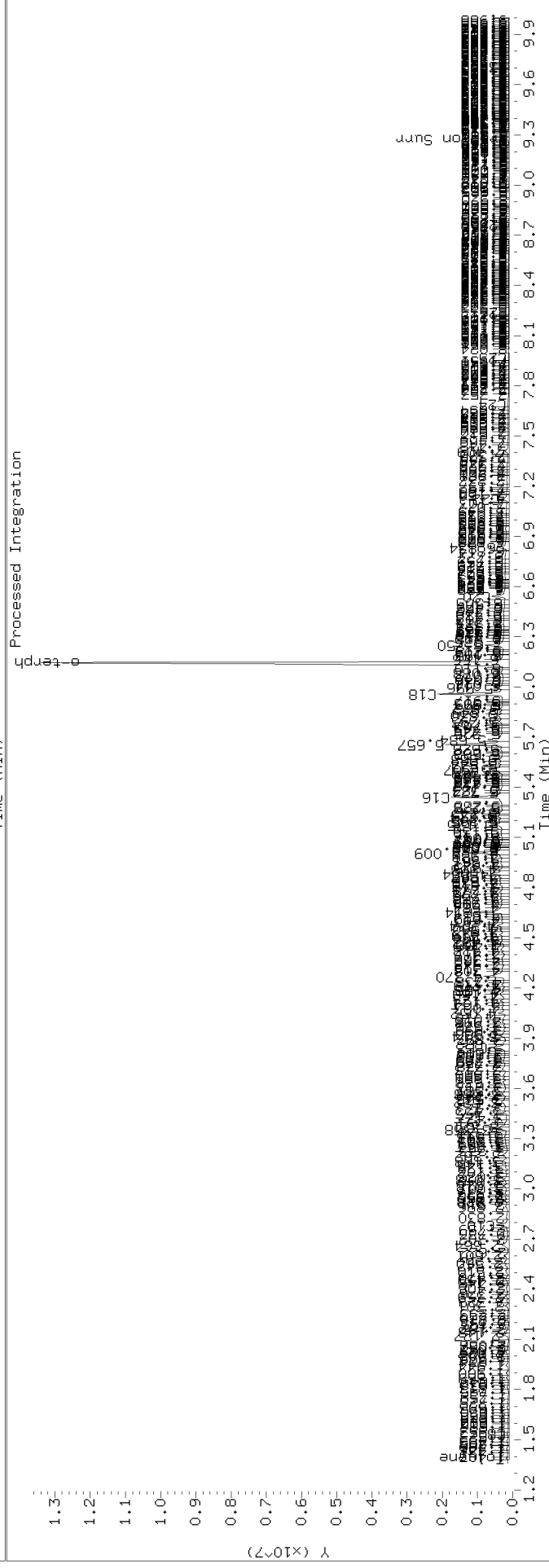
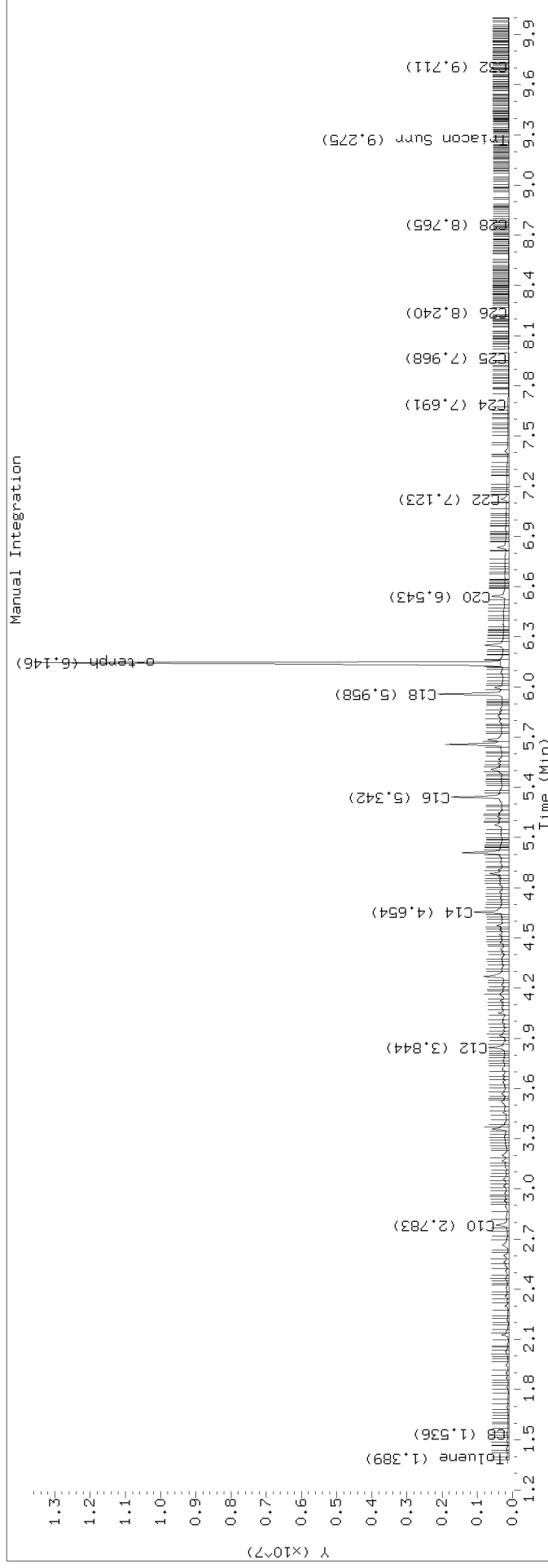
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220120.b/422A2007.D Injection: 20-JAN-2022 12:30

Lab ID:SKA0208-CAL3



Data File: \\target\share\chem2\fid4a,1\20220120,b\42282008.D

Date: 20-JAN-2022 12:50

Client ID:

Sample Info: SKR0208-CAL4

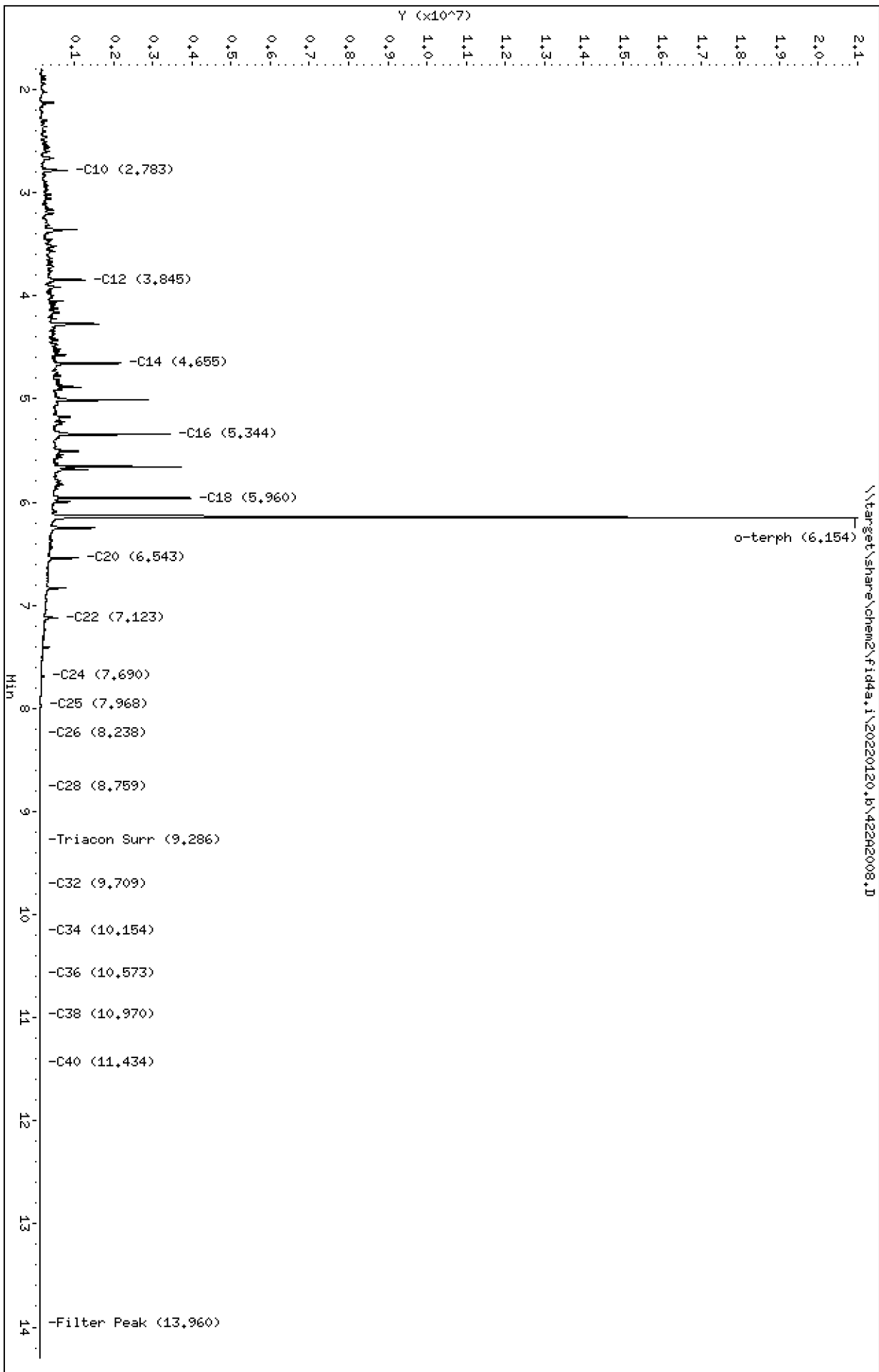
Column phase: RTX-1

Instrument: fid4a,1

Operator: WLB

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2008.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-CAL4
Client ID:
Injection: 20-JAN-2022 12:50
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

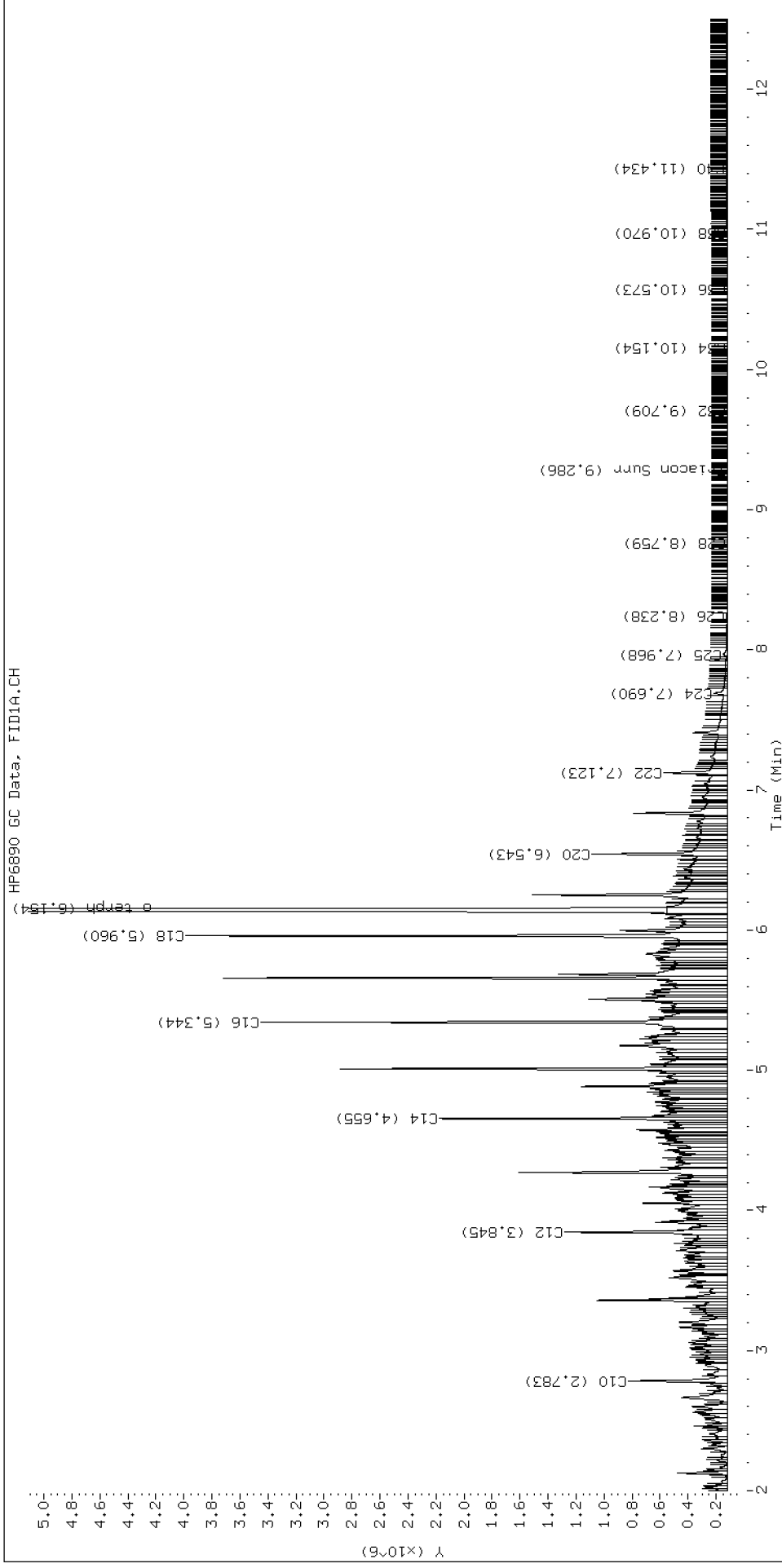
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.536	-0.007	75258	48808	WATPHD	(C12-C24)	80641505	508.3
C10	2.783	-0.005	709615	752568	WATPHM	(C24-C38)	806665	6.1
C12	3.845	-0.003	1162593	1251021	AK102	(C10-C25)	95443784	504.8
C14	4.655	-0.002	2057036	1616758	AK103	(C25-C36)	450247	4.6
C16	5.344	-0.001	3337611	3592251	OR.DIES	(C10-C28)	95745351	504.6
C18	5.960	-0.001	3871050	3592934				
C20	6.543	-0.005	976164	1130774				
C22	7.123	-0.007	454765	562620				
C24	7.690	-0.006	98054	161406				
C25	7.968	-0.006	34825	76825				
C26	8.238	-0.006	13218	23450				
C28	8.759	-0.004	2262	1768				
C32	9.709	-0.009	1511	1013				
C34	10.154	-0.001	1891	1092				
Filter Peak	13.960	-0.002	3303	1461				
C36	10.573	0.005	4311	2527				
C38	10.970	-0.004	6542	2594				
C40	11.434	-0.004	8637	4692				
o-terph	6.154	-0.001	20447054	19087067				
Triacon Surr	9.286	0.009	319	198	NAS DIES	(C10-C24)	95228381	504.7

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	19087067	93.7 M
Triacontane	198	0.0

M Indicates the peak was manually integrated

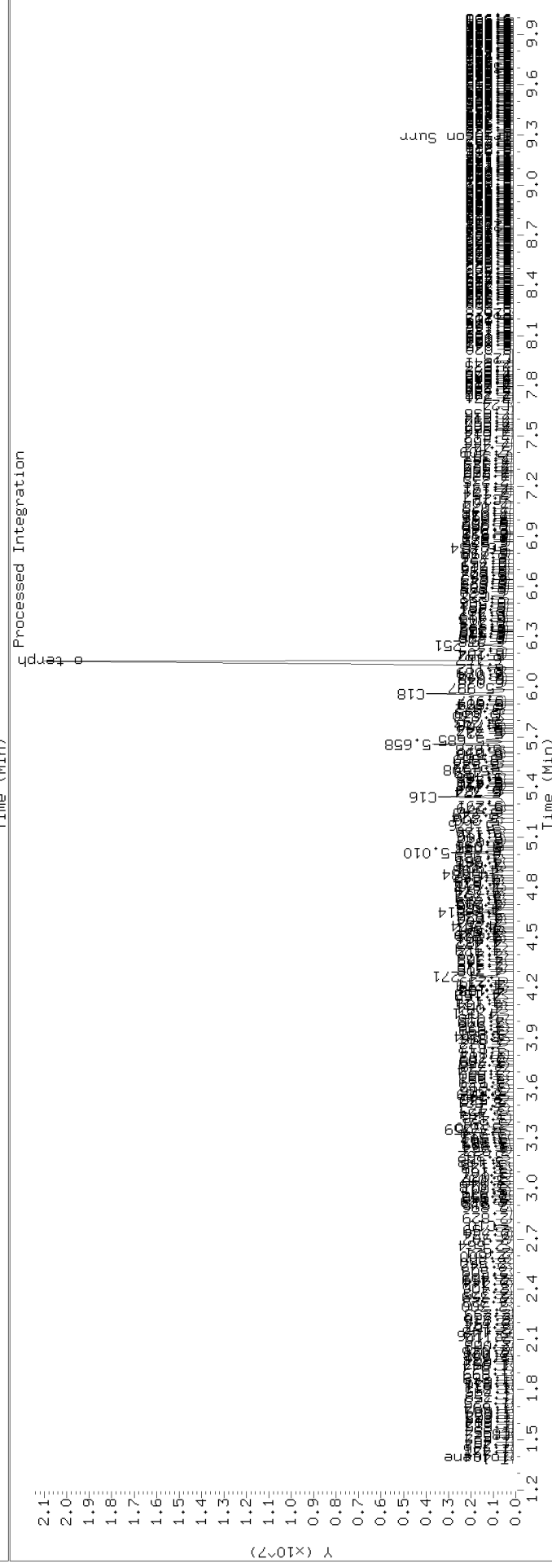
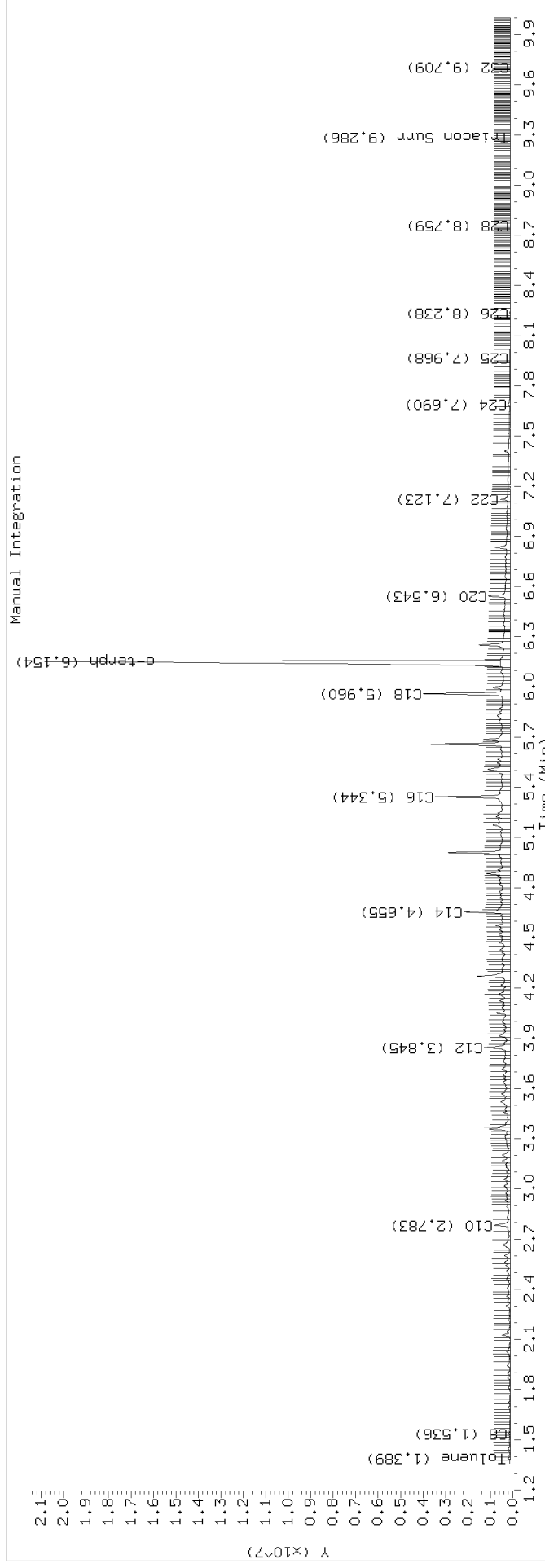
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220120.b/422A2008.D Injection: 20-JAN-2022 12:50

Lab ID:SKA0208-CAL4



Data File: \\target\share\chem2\fid4a,1\20220120,b\42282009.D

Date: 20-JAN-2022 13:10

Client ID:

Sample Info: SKR0208-CAL5

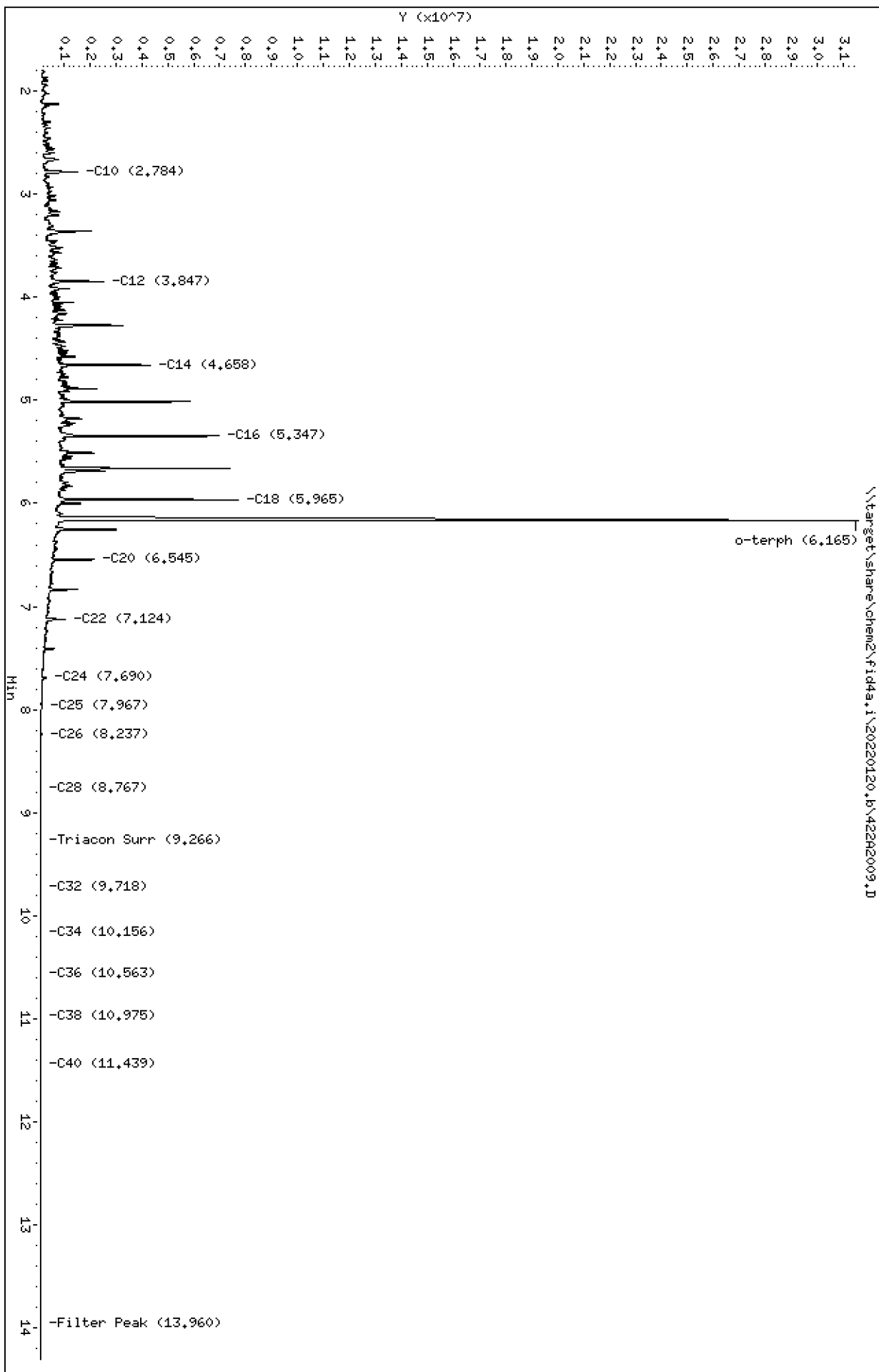
Column phase: RTX-1

Instrument: fid4a,1

Operator: WLB

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2009.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-CAL5
Client ID:
Injection: 20-JAN-2022 13:10
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

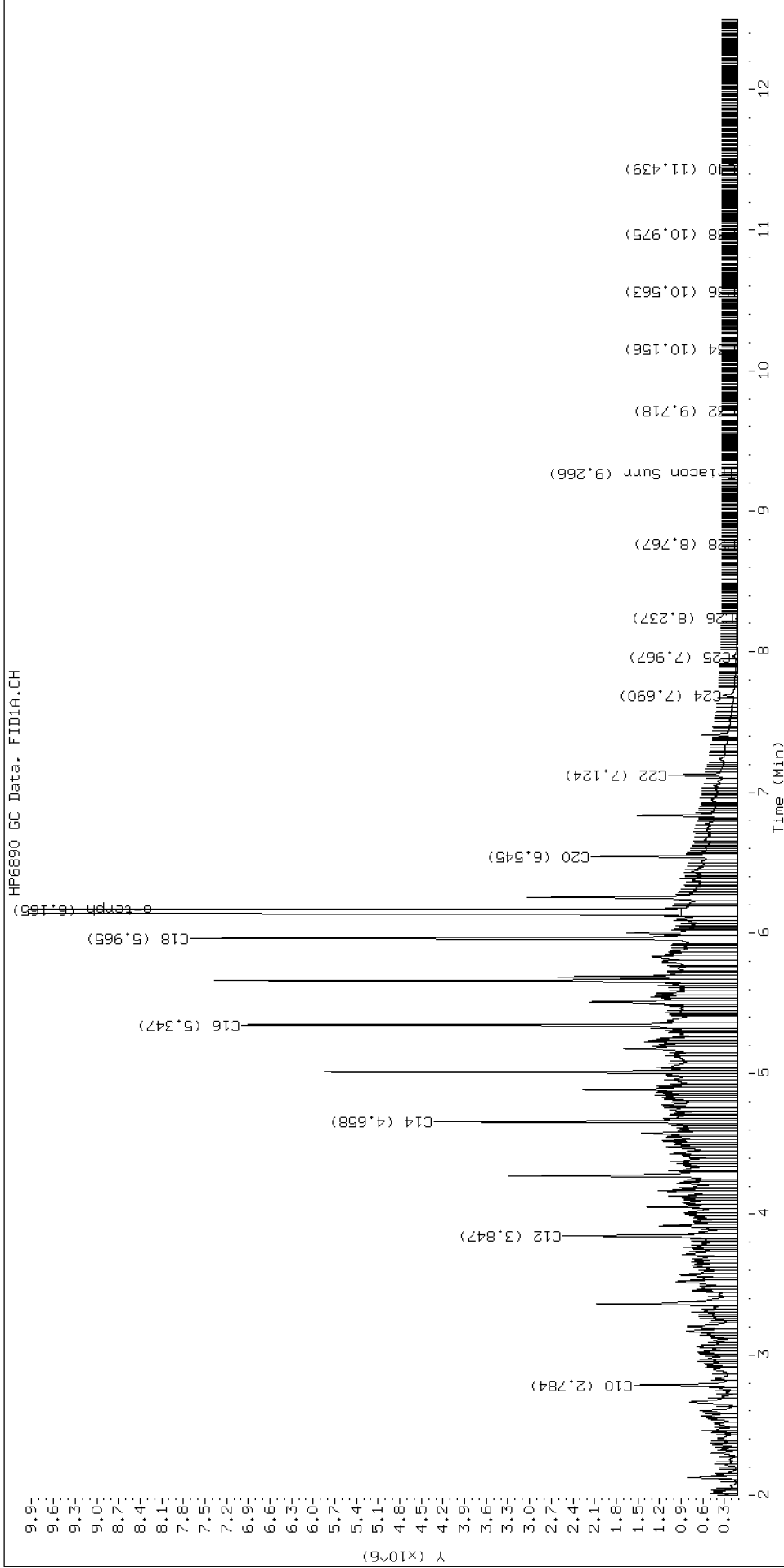
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.536	-0.007	149954	98749	WATPHD	(C12-C24)	162430372	1023.9
C10	2.784	-0.004	1439796	1548854	WATPHM	(C24-C38)	1264513	9.5
C12	3.847	-0.001	2421473	2554240	AK102	(C10-C25)	192320848	1017.2
C14	4.658	0.001	4204457	3276272	AK103	(C25-C36)	691204	7.0
C16	5.347	0.002	6879562	5892766	OR.DIES	(C10-C28)	192830179	1016.3
C18	5.965	0.003	7592509	7277681				
C20	6.545	-0.004	2041229	2172658				
C22	7.124	-0.006	960097	1127598				
C24	7.690	-0.006	201208	385652				
C25	7.967	-0.007	73017	142663				
C26	8.237	-0.007	27457	48850				
C28	8.767	0.004	3710	2779				
C32	9.718	0.001	1462	729				
C34	10.156	0.001	2849	1848				
Filter Peak	13.960	-0.002	10288	3572				
C36	10.563	-0.005	5029	2720				
C38	10.975	0.001	7473	2950				
C40	11.439	0.001	9125	4044				
o-terph	6.165	0.011	30678154	39035312				
Triacon Surr	9.266	-0.011	567	367	NAS DIES	(C10-C24)	191911673	1017.2

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	39035312	191.7 M
Triacontane	367	0.0

M Indicates the peak was manually integrated

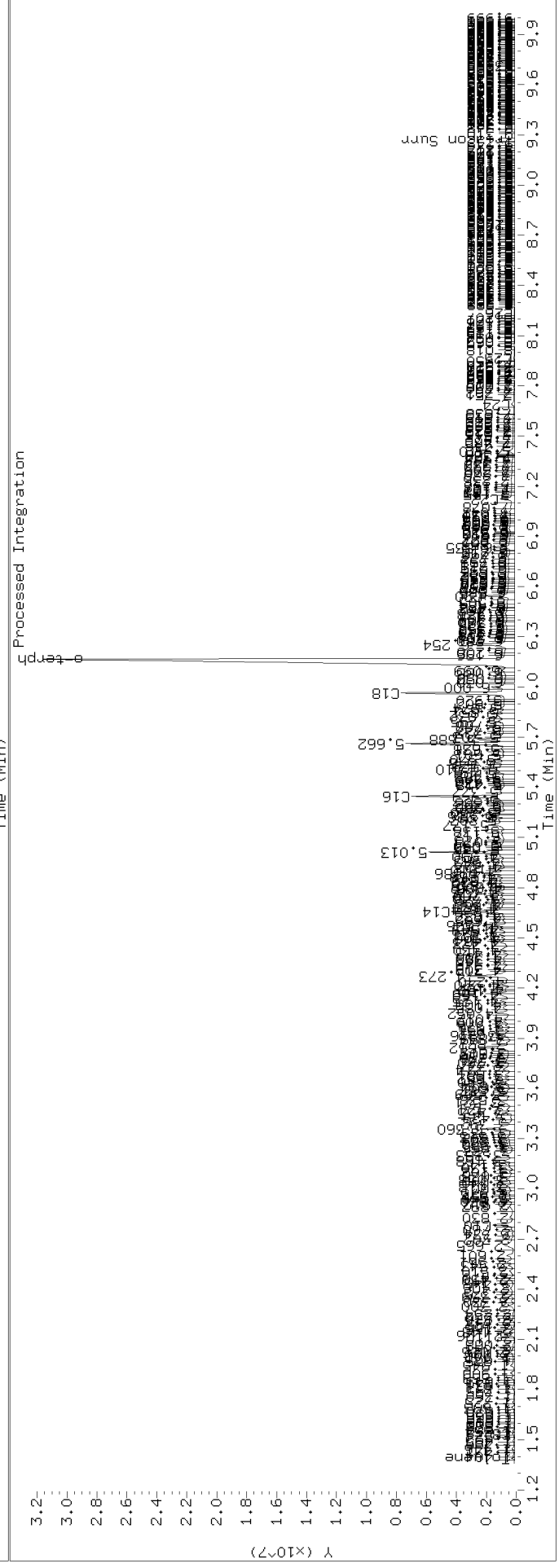
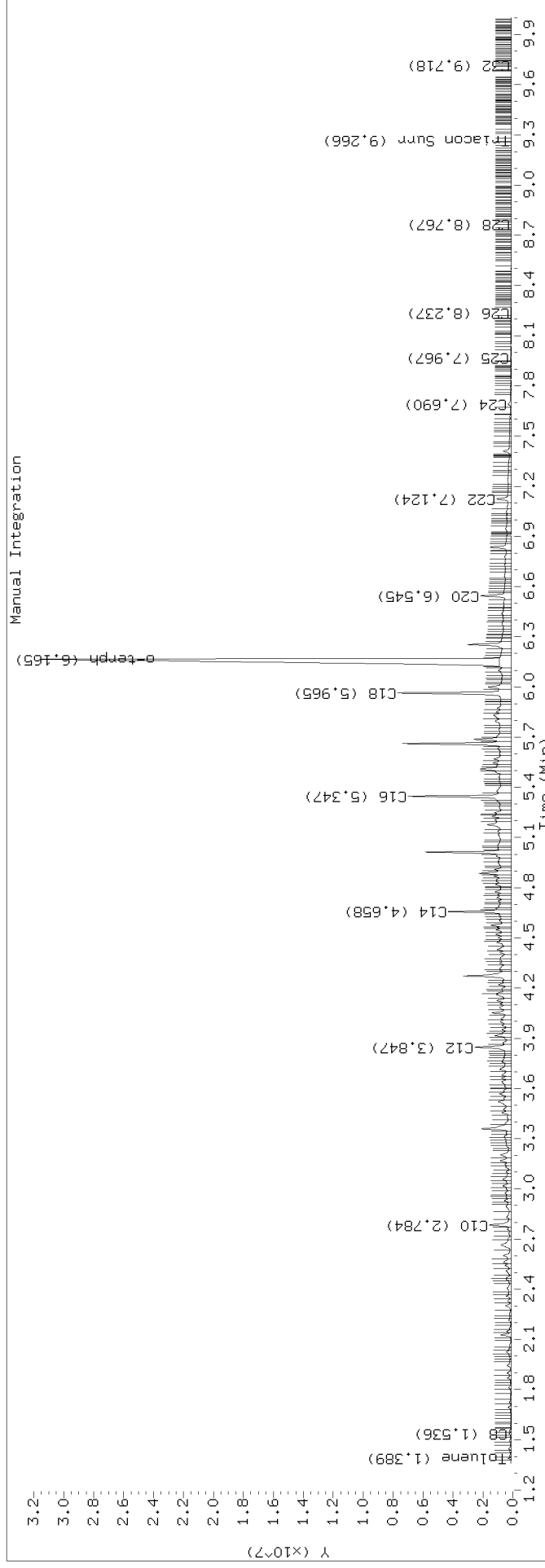
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220120.b/422A2009.D Injection: 20-JAN-2022 13:10

Lab ID:SKA0208-CAL5



Data File: \\target\share\chem2\fid4a,1\20220120,b\42282010.D

Date: 20-JAN-2022 13:30

Client ID:

Sample Info: SKR0208-CAL6

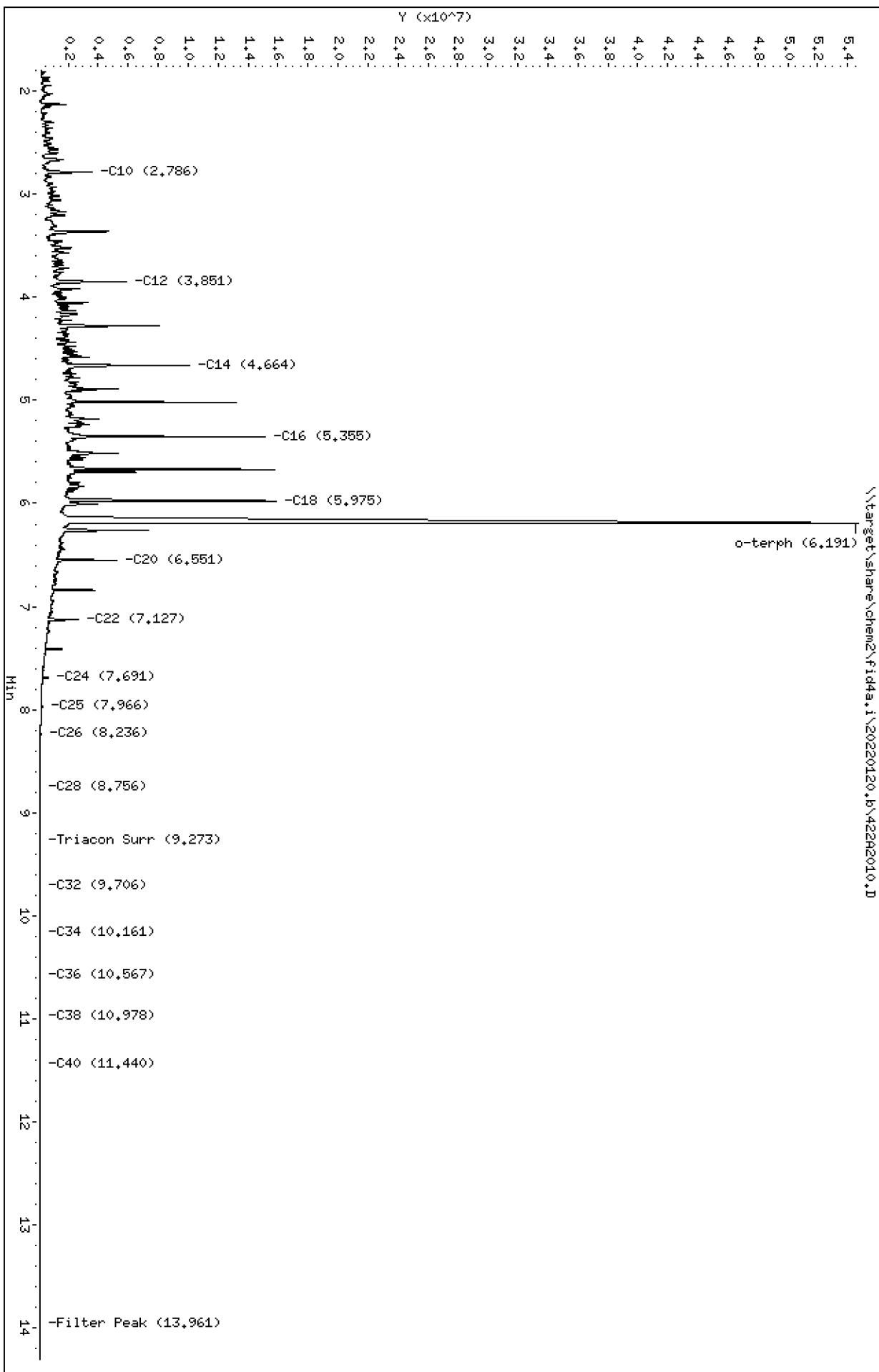
Column phase: RTX-1

Instrument: fid4a,1

Operator: WLB

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2010.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-CAL6
Client ID:
Injection: 20-JAN-2022 13:30
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

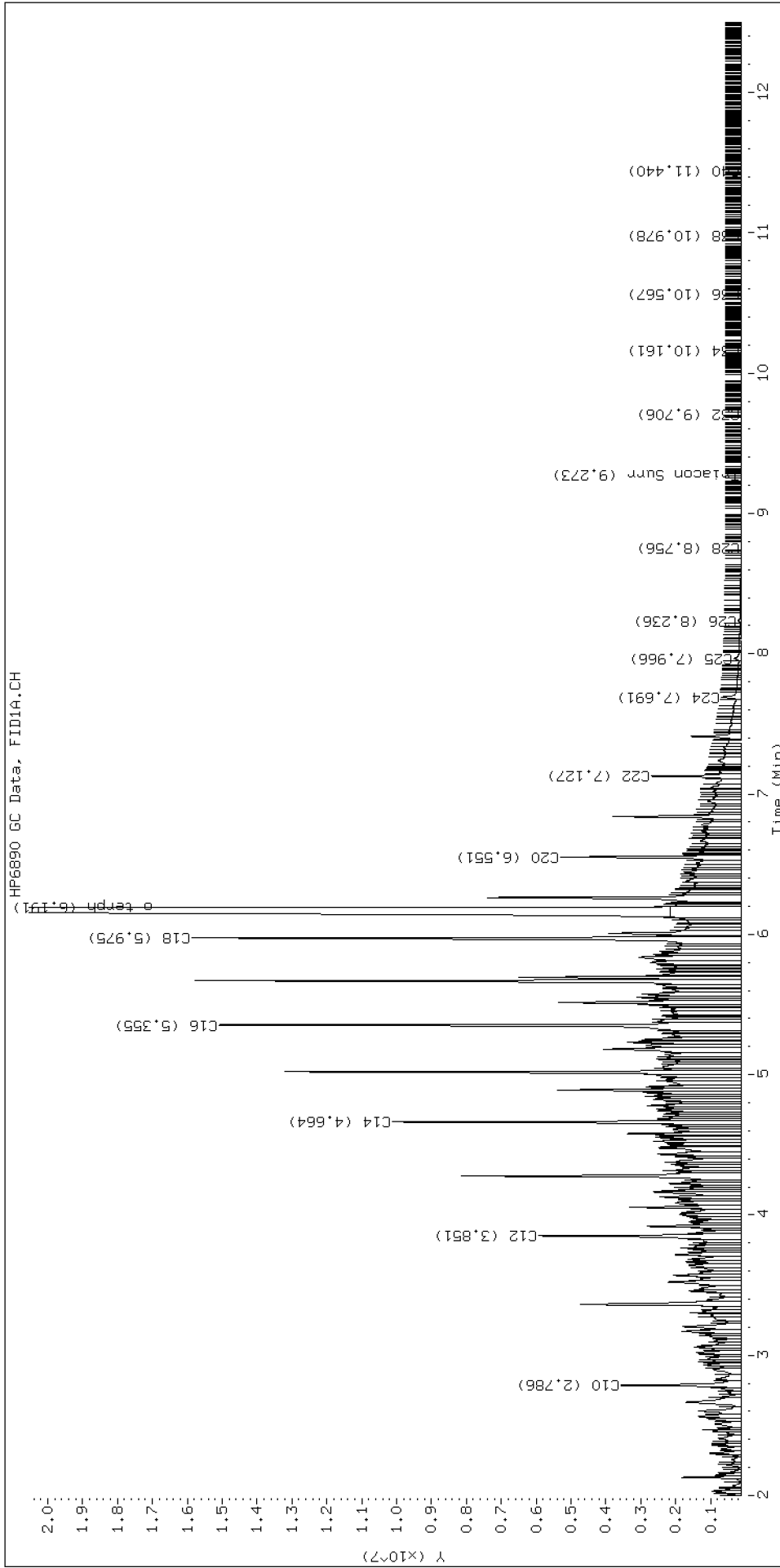
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.542	-0.001	359379	204664	WATPHD	(C12-C24)	401313275	2529.7
C10	2.786	-0.001	3451612	3747918	WATPHM	(C24-C38)	3255893	24.6
C12	3.851	0.003	5804470	6518180	AK102	(C10-C25)	473805635	2505.9
C14	4.664	0.006	9996069	8319063	AK103	(C25-C36)	1903073	19.2
C16	5.355	0.010	14976880	16519865	OR.DIES	(C10-C28)	475446210	2505.7
C18	5.975	0.013	15736444	17182717				
C20	6.551	0.002	5171124	5039701				
C22	7.127	-0.003	2582232	2708319				
C24	7.691	-0.006	575368	871757				
C25	7.966	-0.009	212908	393035				
C26	8.236	-0.008	84474	194854				
C28	8.756	-0.008	15719	40350				
C32	9.706	-0.011	2513	2679				
C34	10.161	0.006	1301	484				
Filter Peak	13.961	-0.002	1223	237				
C36	10.567	-0.001	3163	768				
C38	10.978	0.004	4396	2161				
C40	11.440	0.001	5426	4272				
o-terph	6.191	0.036	52535316	98139839				
Triacon Surr	9.273	-0.004	2245	1221	NAS DIES	(C10-C24)	472550701	2504.6

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	98139839	481.9 M
Triacontane	1221	0.0

M Indicates the peak was manually integrated

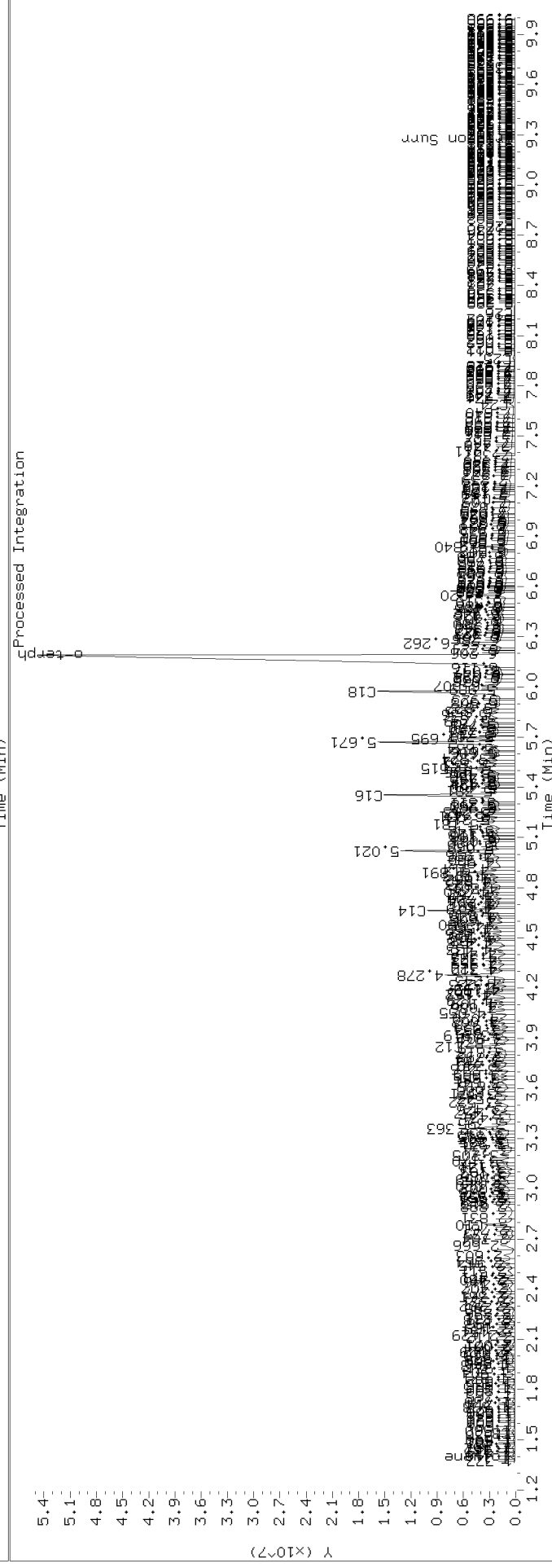
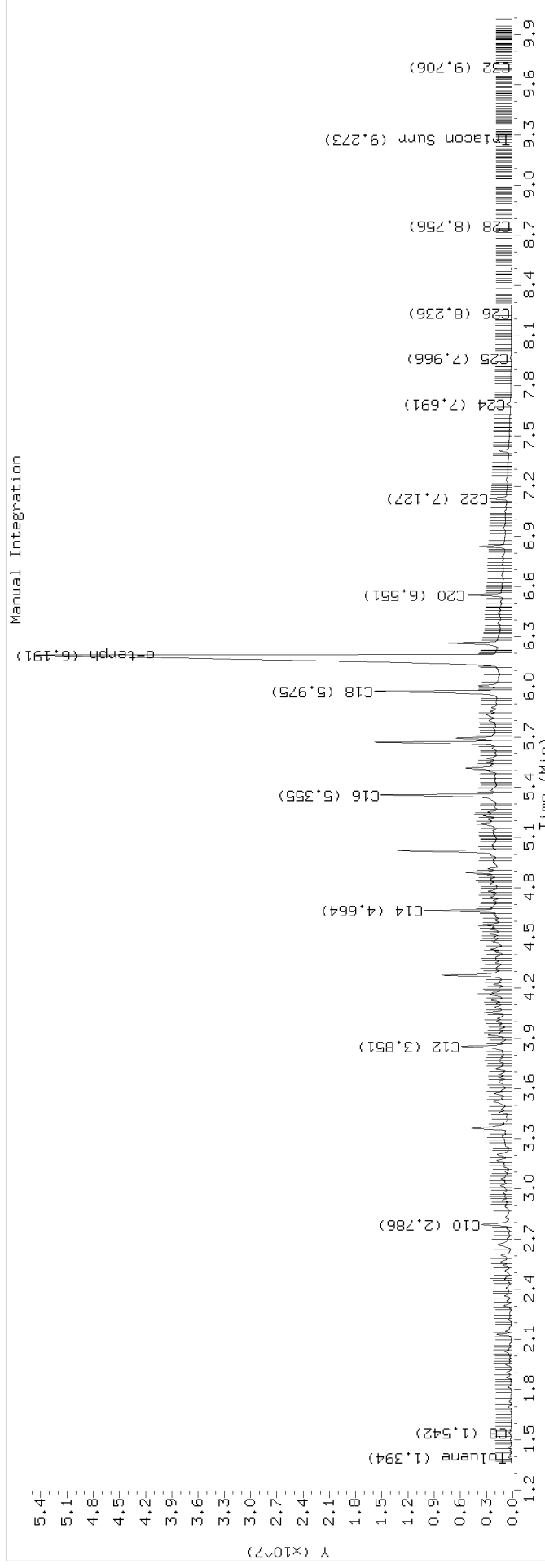
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220120.b/422A2010.D Injection: 20-JAN-2022 13:30

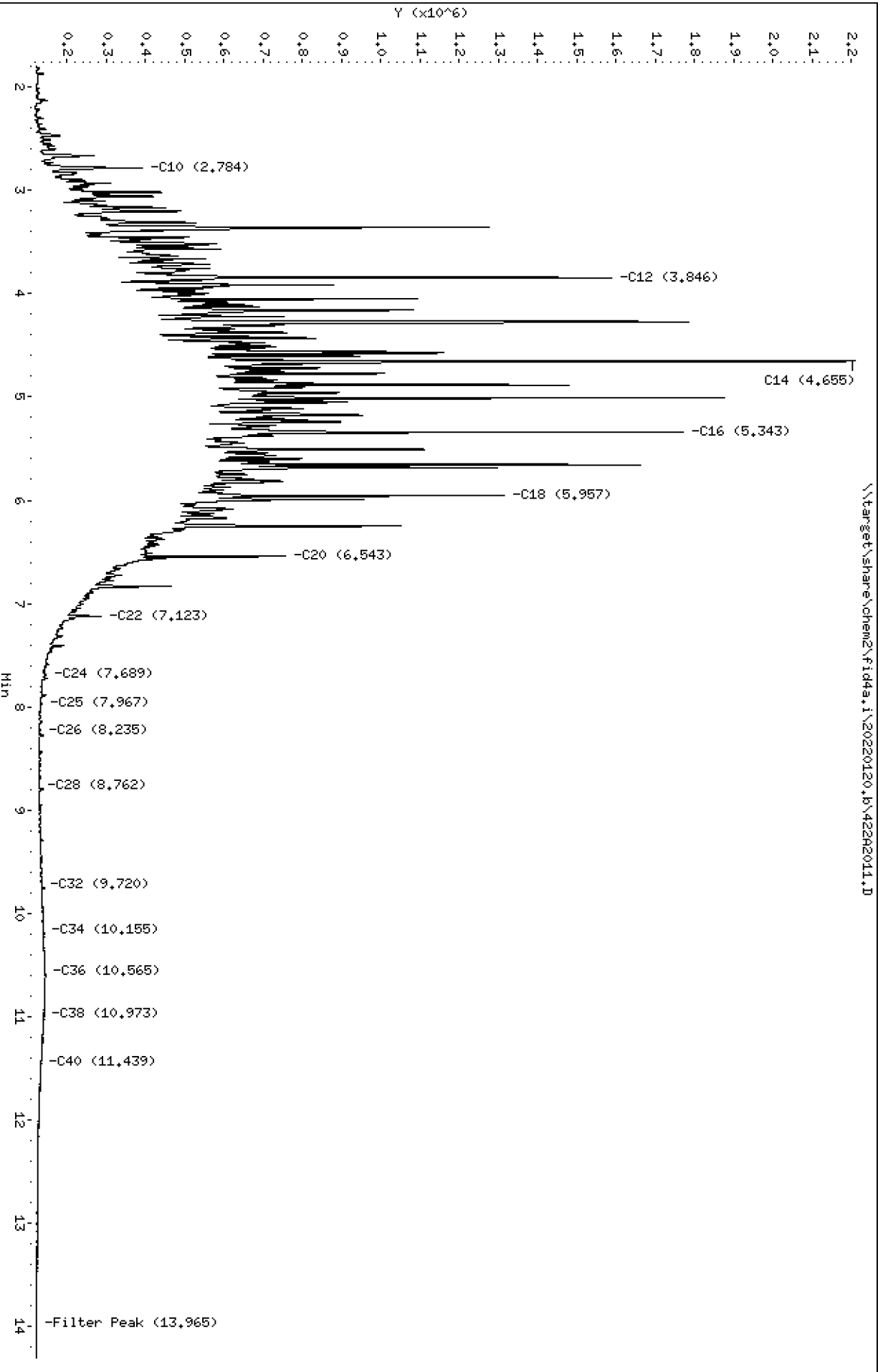
Lab ID:SKA0208-CAL6



Data File: \\target\share\chem2\fid4a,1\20220120_b\42282011.D
Date: 20-JAN-2022 13:50
Client ID:
Sample Info: SKR0208-SCW1

Column phase: RTX-1

Instrument: fid4a,1
Operator: WLB
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2011.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-SCV1
Client ID:
Injection: 20-JAN-2022 13:50
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.544	0.001	18500	21377	WATPHD	(C12-C24)	91791980	578.6
C10	2.784	-0.003	274520	418072	WATPHM	(C24-C38)	3249567	24.5
C12	3.846	-0.002	1470041	1730655	AK102	(C10-C25)	109259392	577.9
C14	4.655	-0.002	2091691	2520186	AK103	(C25-C36)	2486512	25.1
C16	5.343	-0.002	1652289	1980684	OR.DIES	(C10-C28)	109898714	579.2
C18	5.957	-0.005	1198312	1177531				
C20	6.543	-0.006	639233	695730				
C22	7.123	-0.007	169547	241250				
C24	7.689	-0.007	28257	52637				
C25	7.967	-0.007	19233	25038				
C26	8.235	-0.009	12361	12259				
C28	8.762	-0.002	11738	2920				
C32	9.720	0.003	17524	10151				
C34	10.155	0.000	21103	7290				
Filter Peak	13.965	0.003	4638	1151				
C36	10.565	-0.003	24473	16973				
C38	10.973	-0.002	22520	6721				
C40	11.439	0.001	15551	3097				
o-terph	----							
Triacon Surr	----				NAS DIES	(C10-C24)	109074547	578.1

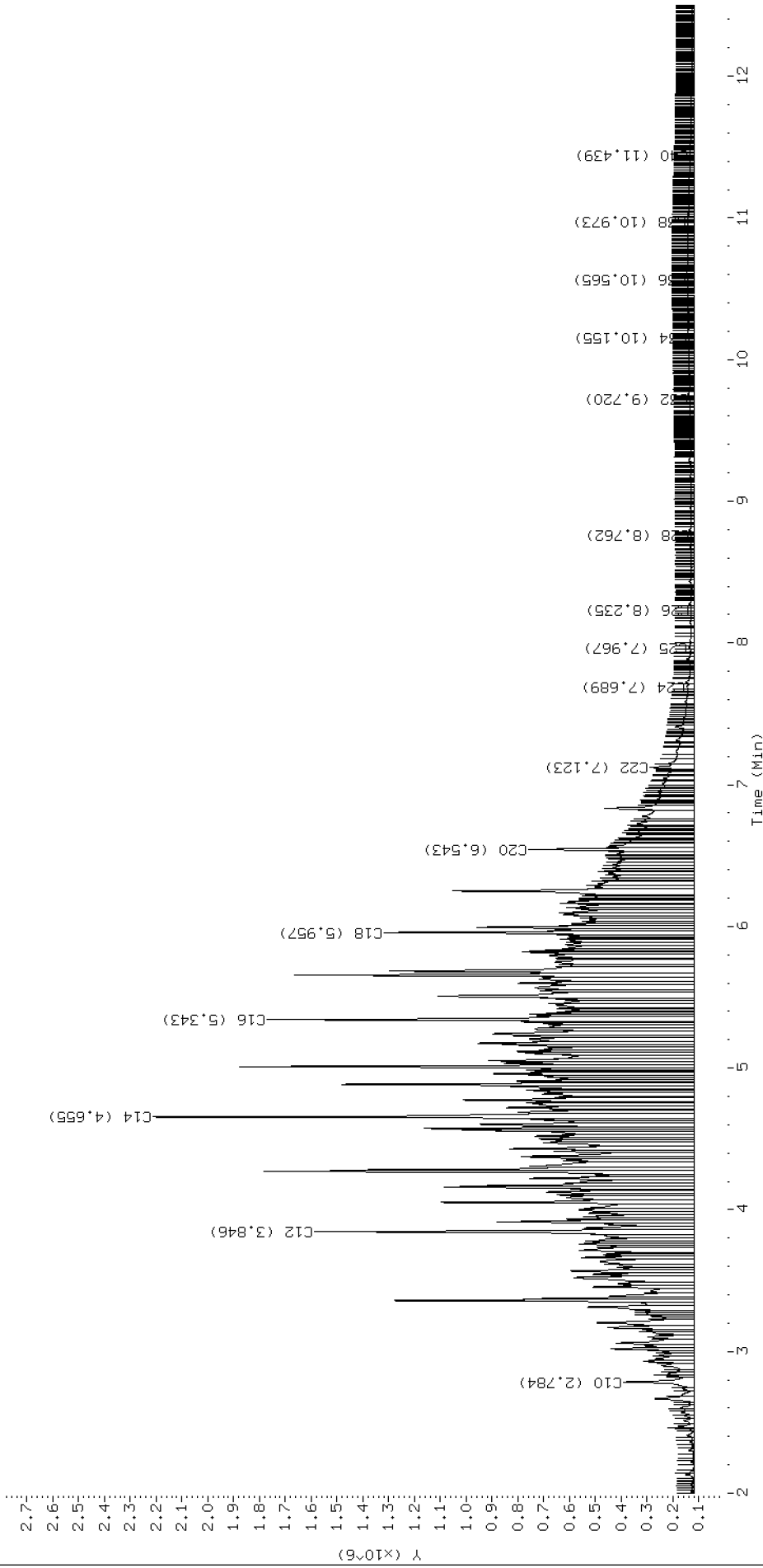
Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	0	0.0
Triacontane	0	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022

HP6890 GC Data, FID1A.CH





ANALYSIS SEQUENCE

SKA0028

Instrument: FID4
Calibration ID: FA00013

Printed: 1/7/2022 6:12:45PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKA0028-IBL1	QC		1		J002430			
SKA0028-IBL2	QC		2		J012751			
SKA0028-CAL1	QC		3		K000192			
SKA0028-CAL2	QC		4		K000193			
SKA0028-CAL3	QC		5		K000194			
SKA0028-CAL4	QC		6		K000195			
SKA0028-CAL5	QC		7		K000196			
SKA0028-CAL6	QC		8		J012752			
SKA0028-CAL7	QC		9		J011839			
SKA0028-CAL8	QC		10		J011838			
SKA0028-CAL9	QC		11		J011837			
SKA0028-CALA	QC		12		J011836			
SKA0028-CALB	QC		13		J011835			
SKA0028-CALC	QC		14		J010293			
SKA0028-SCV1	QC		15		J009677			
SKA0028-SCV2	QC		16		J012167			
SKA0028-CALD	QC		17		J012178			
SKA0028-CALE	QC		18		J012179			
SKA0028-CALF	QC		19		J012180			
SKA0028-CALG	QC		20		J012181			
SKA0028-CALH	QC		21		J012182			

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____



ANALYSIS SEQUENCE

SKA0028

Instrument: FID4
Calibration ID: FA00013

Printed: 1/7/2022 6:12:45PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKA0028-CALI	QC		22		J009013			
SKA0028-SCV3	QC		23		J012184			

Samples Loaded By

Date

Data Processed By

Date

GC LOG SUMMARY FOR DATABATCH - fid4a.i\20220106.b

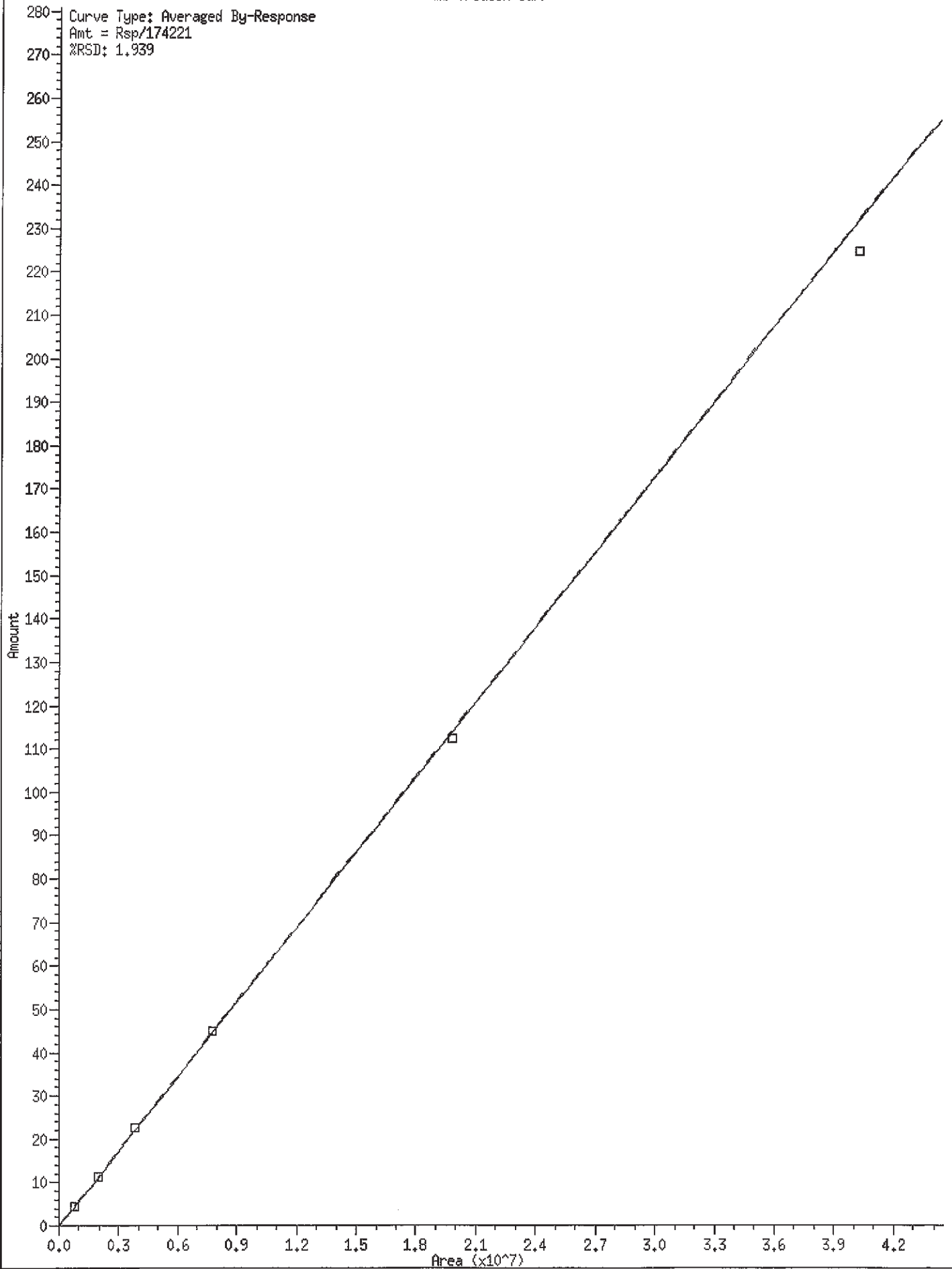
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1	06-JAN-2022	09:20	422A0601.D	1	RINSE	
2	06-JAN-2022	09:40	422A0602.D	1	RINSE	
3	06-JAN-2022	09:59	422A0603.D	1	SKA0028-IBL1	
4	06-JAN-2022	10:19	422A0604.D	1	SKA0028-IBL2	
5	06-JAN-2022	10:39	422A0605.D	1	SKA0028-ICV1	
6	06-JAN-2022	10:59	422A0606.D	1	SKA0028-ICV2	
7	06-JAN-2022	11:19	422A0607.D	1	BKA0056-BLK1	
8	06-JAN-2022	11:38	422A0608.D	1	BKA0056-BS1	
9	06-JAN-2022	11:58	422A0609.D	1	BKA0056-MRL1	
10	06-JAN-2022	12:18	422A0610.D	1	BKA0056-MRL2	
11	06-JAN-2022	12:38	422A0611.D	1	22A0041-01	
12	06-JAN-2022	12:58	422A0612.D	10	22A0041-01	
13	06-JAN-2022	13:17	422A0613.D	10	22A0041-02	
14	06-JAN-2022	13:37	422A0614.D	20	22A0041-01	
15	06-JAN-2022	13:57	422A0615.D	20	22A0041-02	
16	06-JAN-2022	14:17	422A0616.D	20	22A0041-03	
17	06-JAN-2022	14:37	422A0617.D	20	22A0041-04	
18	06-JAN-2022	14:56	422A0618.D	1	SKA0028-CCV1	
19	06-JAN-2022	15:16	422A0619.D	1	SKA0028-CCV2	
20	06-JAN-2022	17:04	422A0620.D	1	SKA0028-CAL1	
21	06-JAN-2022	17:24	422A0621.D	1	SKA0028-CAL2	
22	06-JAN-2022	17:44	422A0622.D	1	SKA0028-CAL3	
23	06-JAN-2022	18:04	422A0623.D	1	SKA0028-CAL4	
24	06-JAN-2022	18:23	422A0624.D	1	SKA0028-CAL5	
25	06-JAN-2022	18:43	422A0625.D	1	SKA0028-CAL6	
26	06-JAN-2022	19:03	422A0626.D	1	SKA0028-CAL7	
27	06-JAN-2022	19:23	422A0627.D	1	SKA0028-CAL8	
28	06-JAN-2022	19:43	422A0628.D	1	SKA0028-CAL9	
29	06-JAN-2022	20:02	422A0629.D	1	SKA0028-CALA	
30	06-JAN-2022	20:22	422A0630.D	1	SKA0028-CALB	
31	06-JAN-2022	20:42	422A0631.D	1	SKA0028-CALC	
32	06-JAN-2022	21:02	422A0632.D	1	SKA0028-SCV1	
33	06-JAN-2022	21:21	422A0633.D	1	SKA0028-SCV2	
34	06-JAN-2022	21:41	422A0634.D	1	SKA0028-CALD	
35	06-JAN-2022	22:01	422A0635.D	1	SKA0028-CALE	
36	06-JAN-2022	22:21	422A0636.D	1	SKA0028-CALF	
37	06-JAN-2022	22:40	422A0637.D	1	SKA0028-CALG	
38	06-JAN-2022	23:00	422A0638.D	1	SKA0028-CALH	
39	06-JAN-2022	23:20	422A0639.D	1	SKA0028-CALI	
40	06-JAN-2022	23:40	422A0640.D	1	SKA0028-SCV3	

* 15 Triacon Surr

Curve Type: Averaged By-Response

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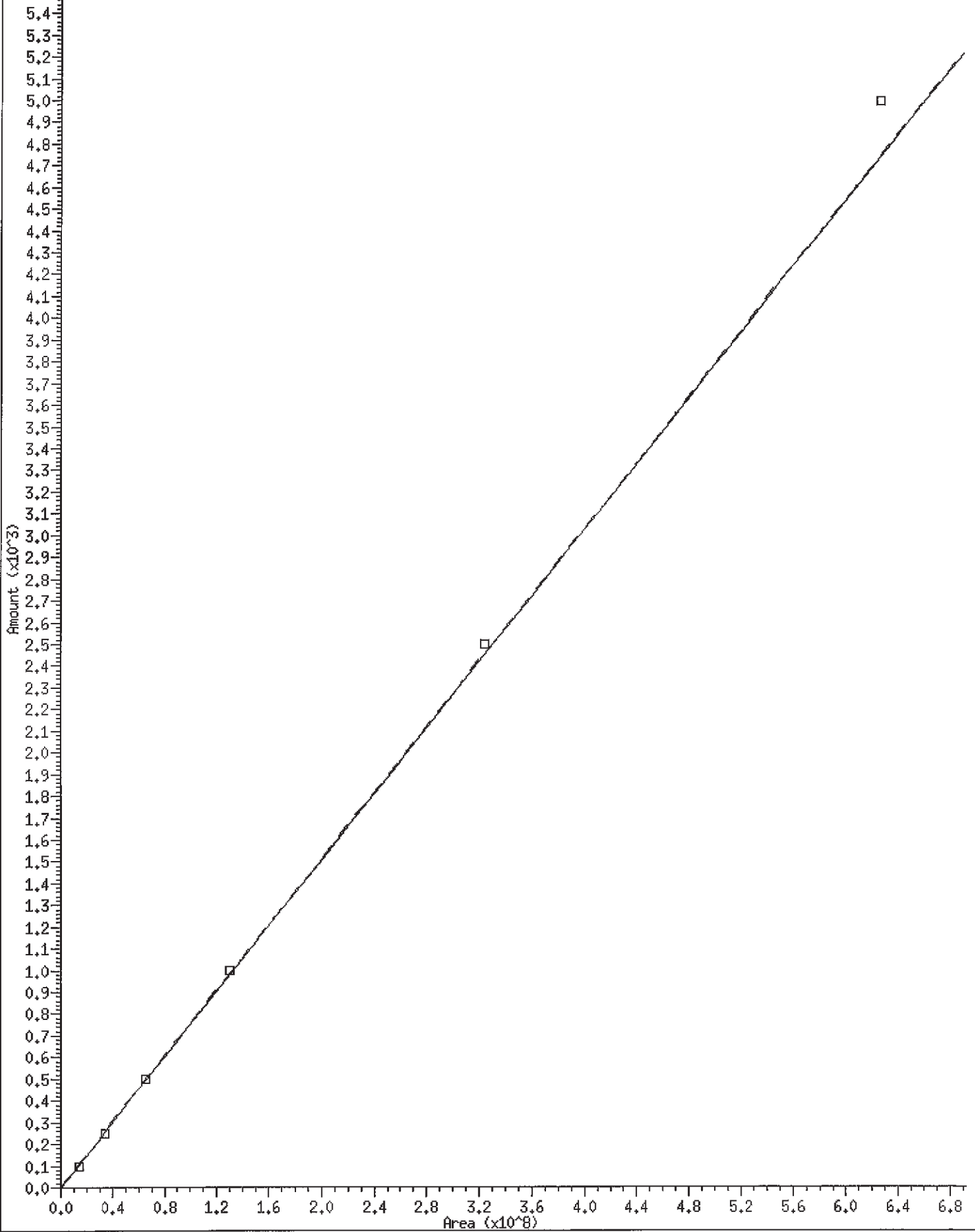
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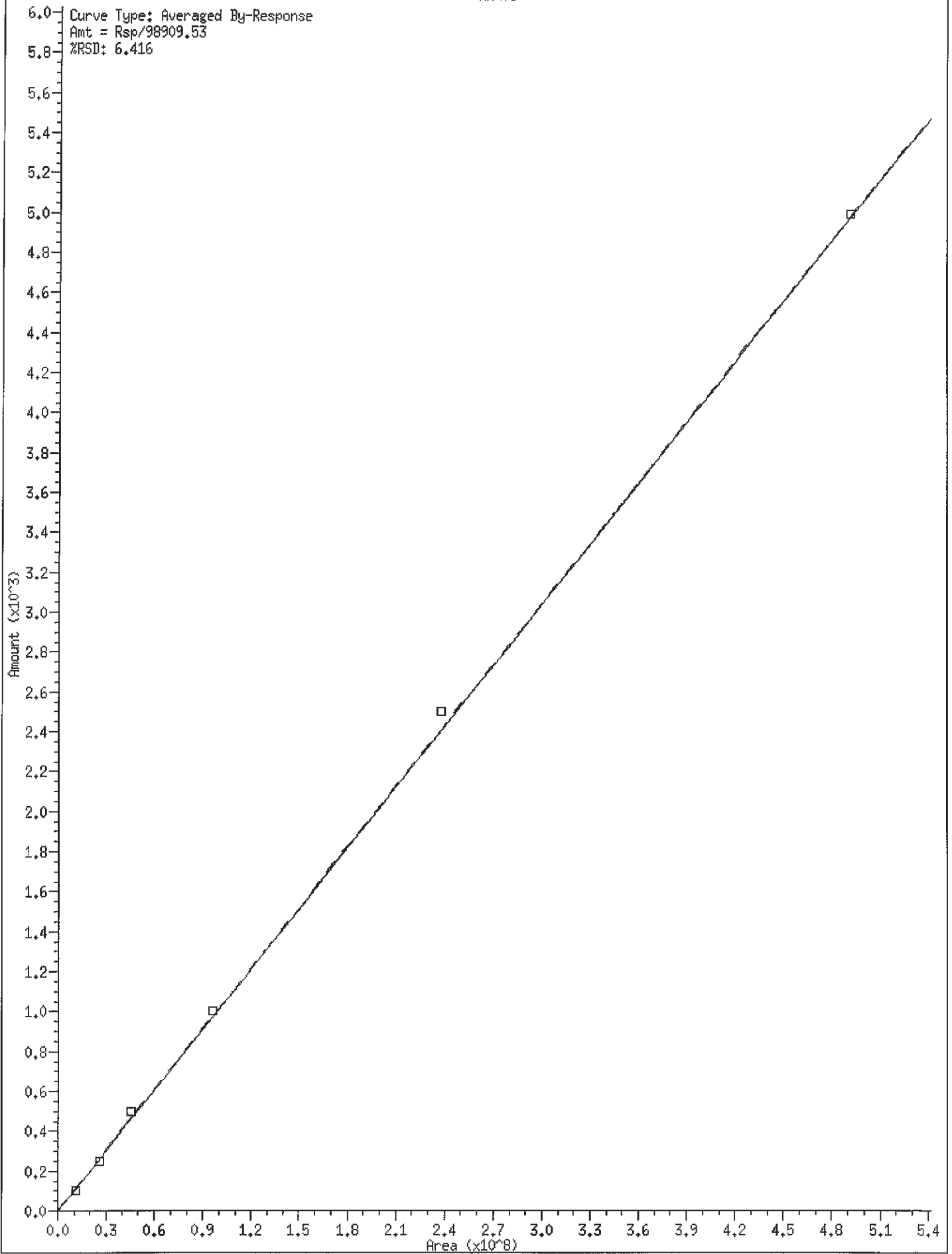


5.7 Curve Type: Averaged By-Response

5.6 Amt = Rsp/132579.1

5.5 %RSD: 4.906

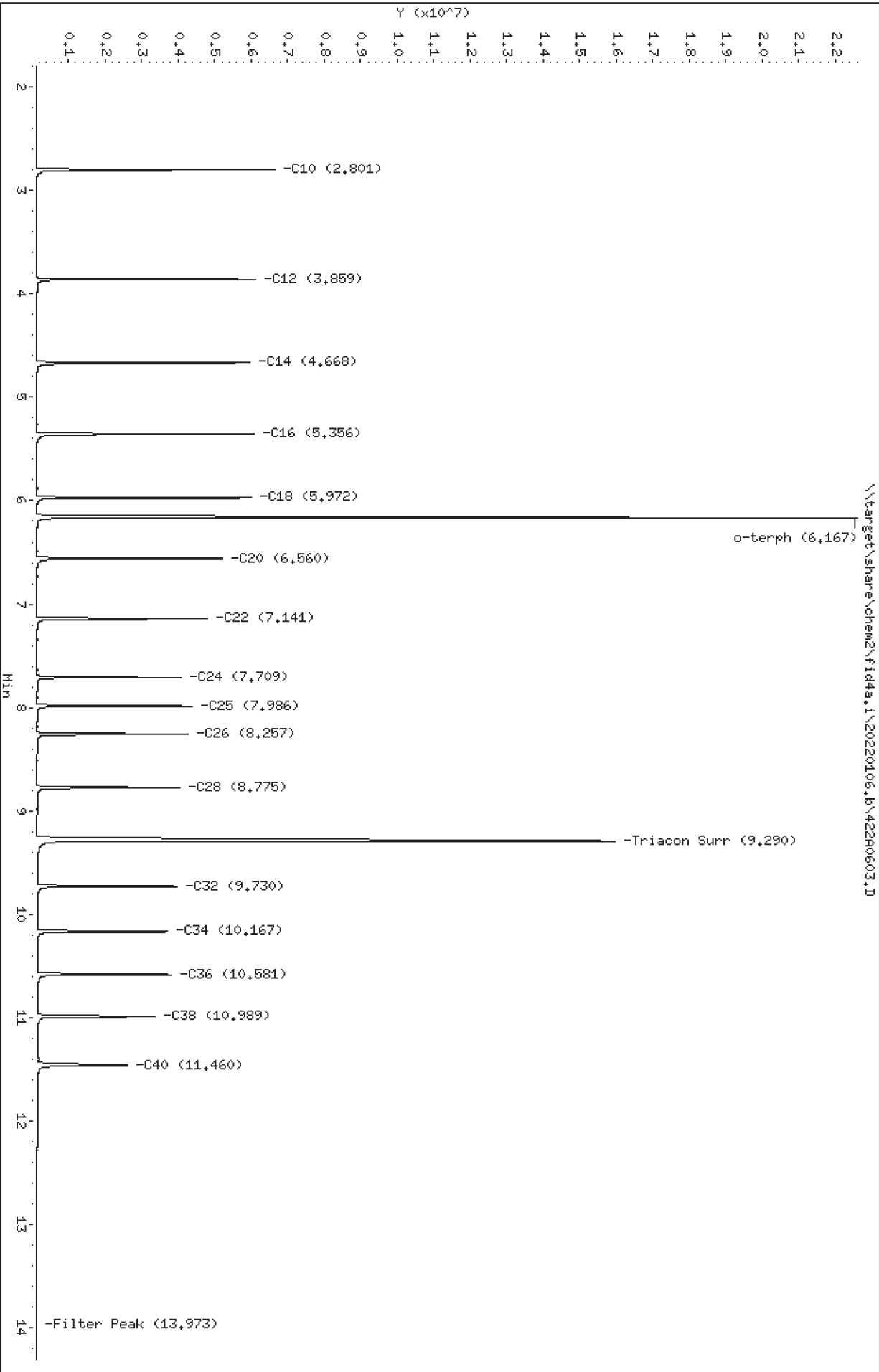




Data File: \\target\share\chem2\fid4a,1\20220106_b\422R0603.D
Date : 06-JAN-2022 09:59
Client ID:
Sample Info: SKR0028-IBL1

Column phase: RTX-1

Instrument: fid4a,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0603.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-IBL1
Client ID:
Injection: 06-JAN-2022 09:59
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.566	0.000	6713601	4039787	WATPHD	(C12-C24)	25039660	171.8
C10	2.801	0.000	6536883	4315633	WATPHM	(C24-C38)	28366853	214.0
C12	3.859	0.000	5996498	4131476	AK102	(C10-C25)	33798538	196.2
C14	4.668	0.000	5854462	4184820	AK103	(C25-C36)	23829494	240.9
C16	5.356	0.000	5963937	4127029	OR.DIES	(C10-C28)	45179025	260.0
C18	5.972	0.000	5885012	4061247				
C20	6.560	0.000	5093441	4004125				
C22	7.141	0.000	4686847	3888196				
C24	7.709	0.000	3978753	3286889				
C25	7.986	0.000	4279511	3648257				
C26	8.257	0.000	4166577	3725307				
C28	8.775	0.000	3937835	3595457				
C32	9.730	0.000	3839649	3755061				
C34	10.167	0.000	3575886	3656599				
Filter Peak	13.973	0.000	14079	6183				
C36	10.581	0.000	3708443	3634457				
C38	10.989	0.000	3260642	3846028				
C40	11.460	0.000	2490894	3636263				
o-terph	6.167	0.000	22482578	21984004				
Triacon Surr	9.290	0.000	15855592	21633183	NAS DIES	(C10-C24)	33658258	196.0

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

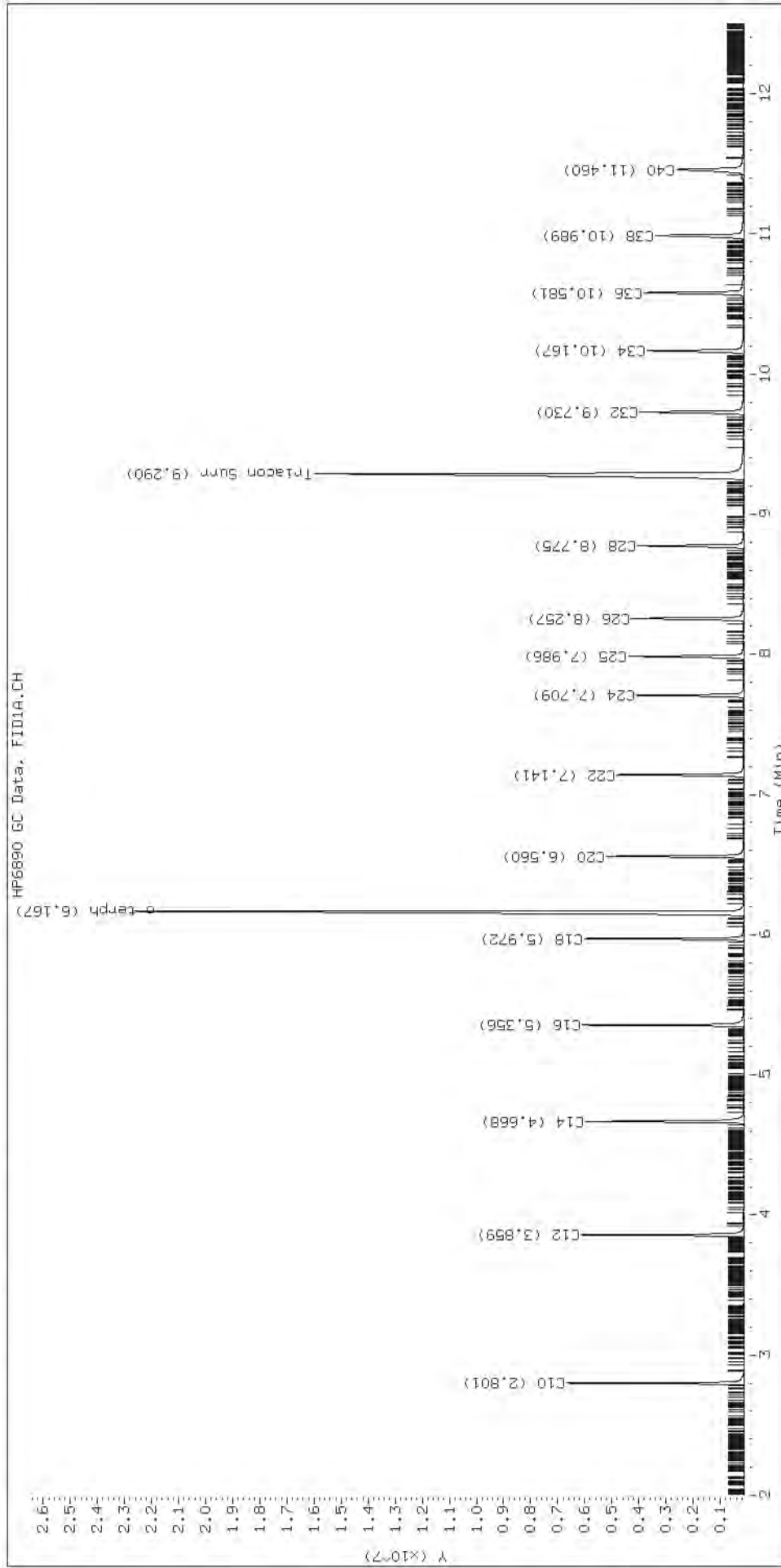
Surrogate	Area	Amount
o-Terphenyl	21984004	114.5
Triacontane	21633183	124.2

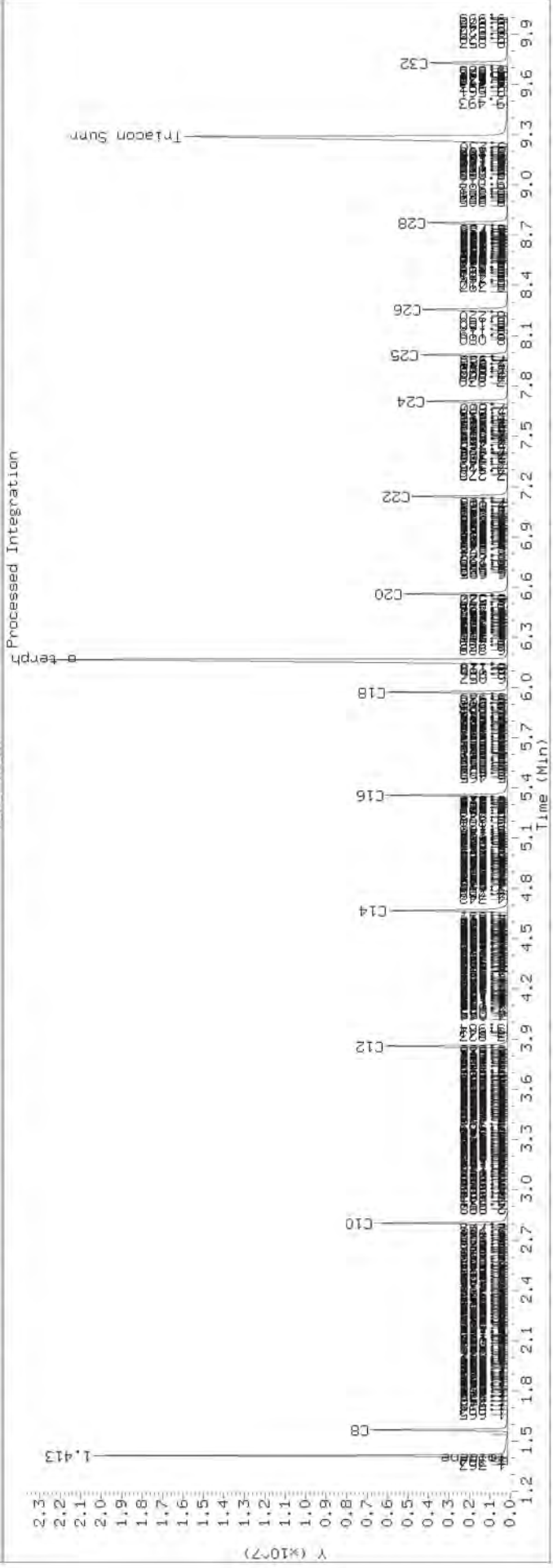
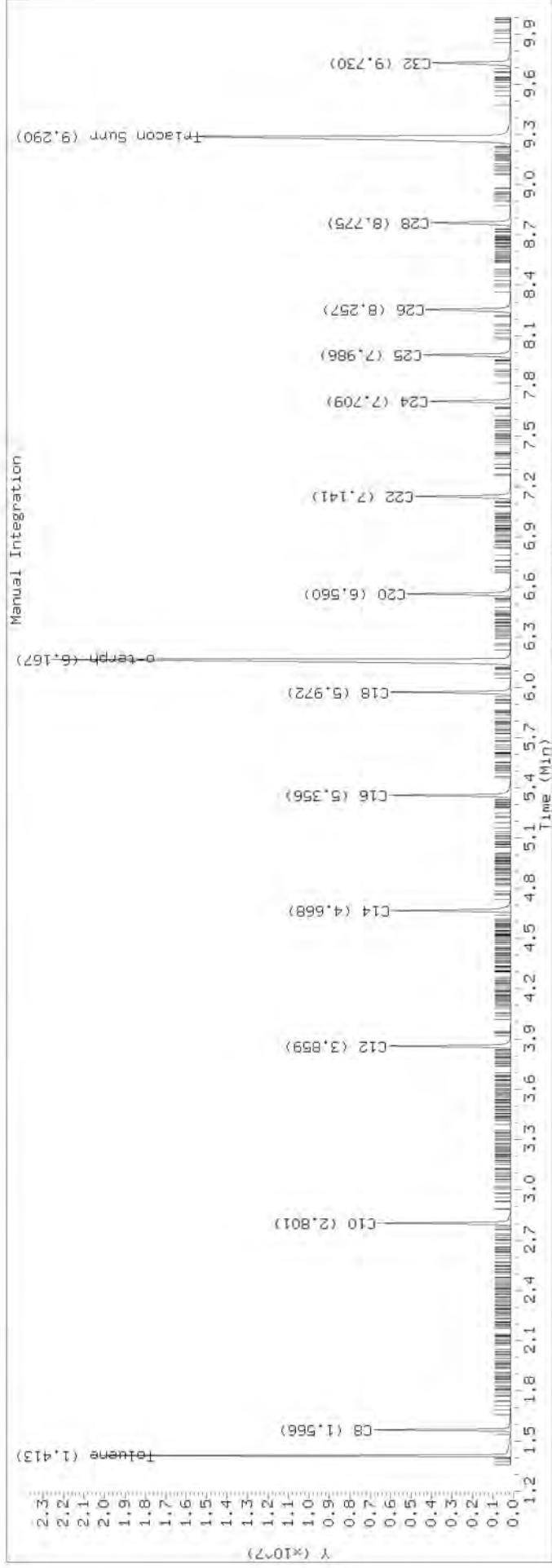
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

Datafile: FID4A, 20220106.b/422A0603.D SKA0028-IBL1

HP6890 GC Data, FID1A.CH





Data File: \\target\share\chem2\fid4a,1\20220106,b\42240604.D

Date : 06-JAN-2022 10:19

Client ID:

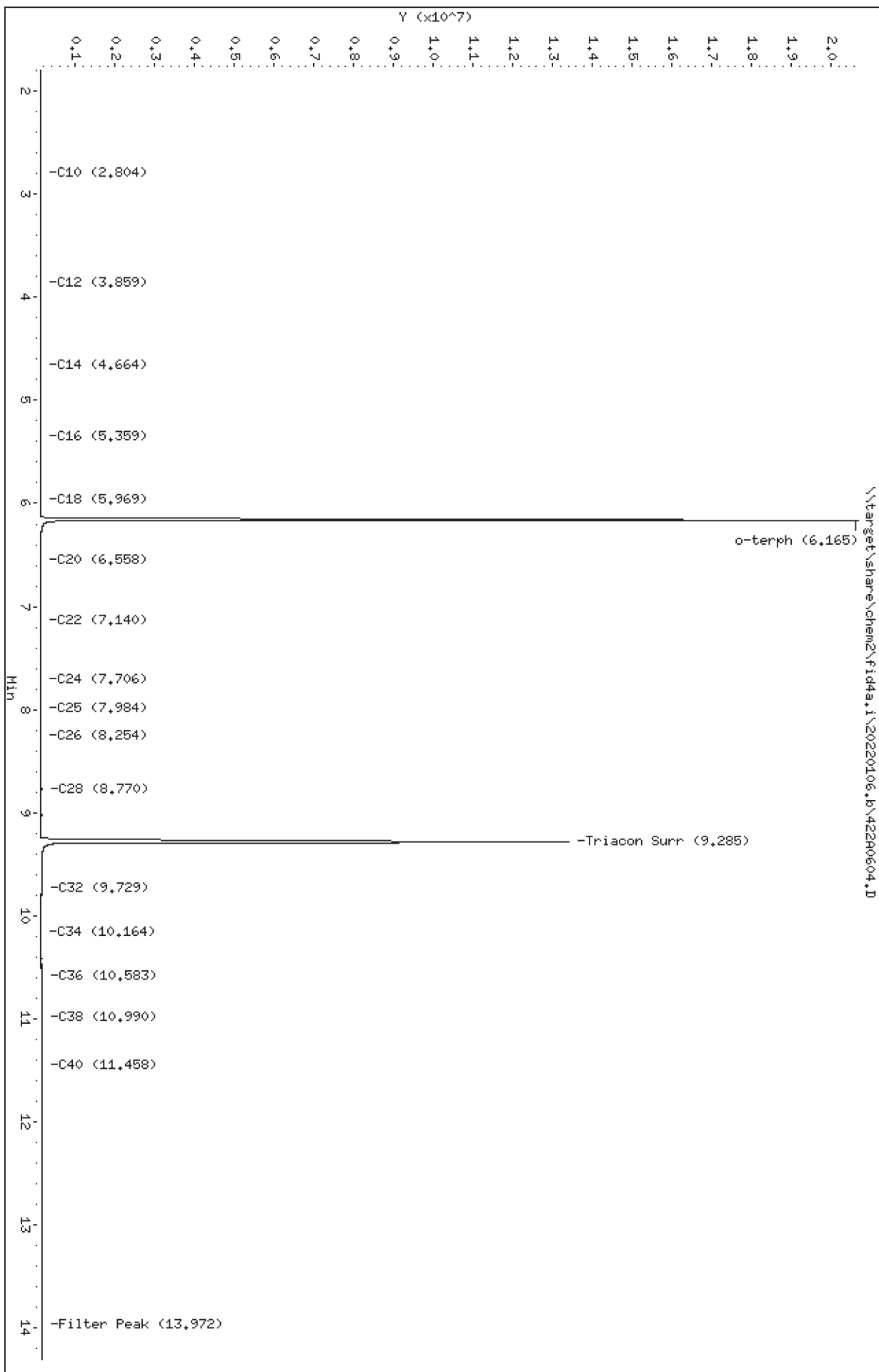
Sample Info: SKR0028-IBL2

Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0604.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-IBL2
Client ID:
Injection: 06-JAN-2022 10:19
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.559	-0.008	19299	11444	WATPHD	(C12-C24)	622077	4.3
C10	2.804	0.003	10342	8454	WATPHM	(C24-C38)	2333932	17.6
C12	3.859	-0.000	7697	1914	AK102	(C10-C25)	1293098	7.5
C14	4.664	-0.004	4159	2417	AK103	(C25-C36)	1797549	18.2
C16	5.359	0.002	914	207	OR.DIES	(C10-C28)	1589947	9.1
C18	5.969	-0.003	462	129				
C20	6.558	-0.002	3676	1619				
C22	7.140	-0.001	2659	646				
C24	7.706	-0.003	3951	1720				
C25	7.984	-0.002	4536	2462				
C26	8.254	-0.004	5187	4697				
C28	8.770	-0.005	39782	48787				
C32	9.729	-0.001	29141	49217				
C34	10.164	-0.003	15846	10202				
Filter Peak	13.972	-0.001	22292	8869				
C36	10.583	0.001	18551	7386				
C38	10.990	0.001	21344	10622				
C40	11.458	-0.002	22810	13640				
o-terph	6.165	-0.002	20576644	20107672				
Triacon Surr	9.285	-0.004	13279811	16645751	NAS DIES	(C10-C24)	1251413	7.3

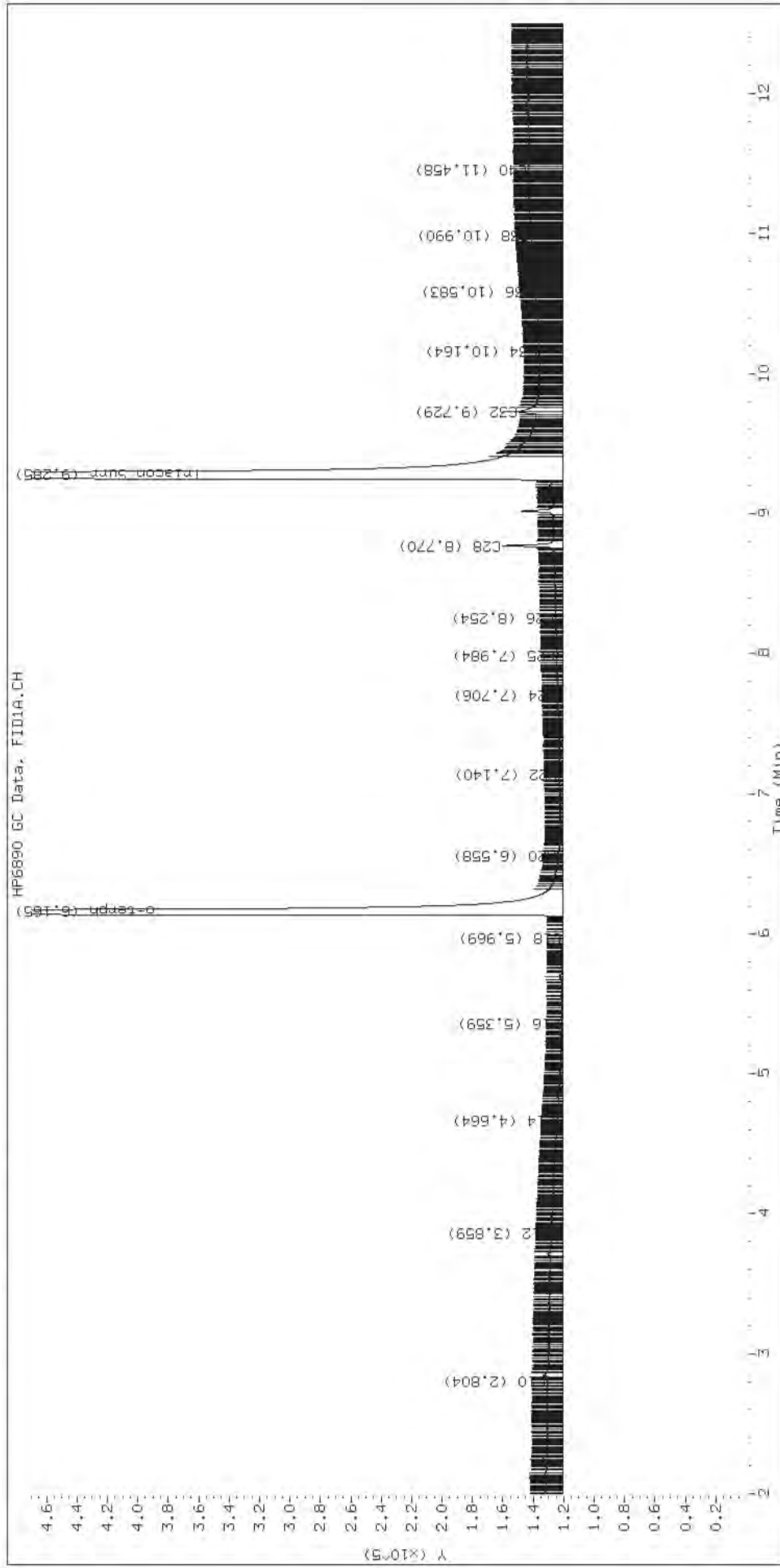
Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	20107672	104.7
Triacontane	16645751	95.5

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

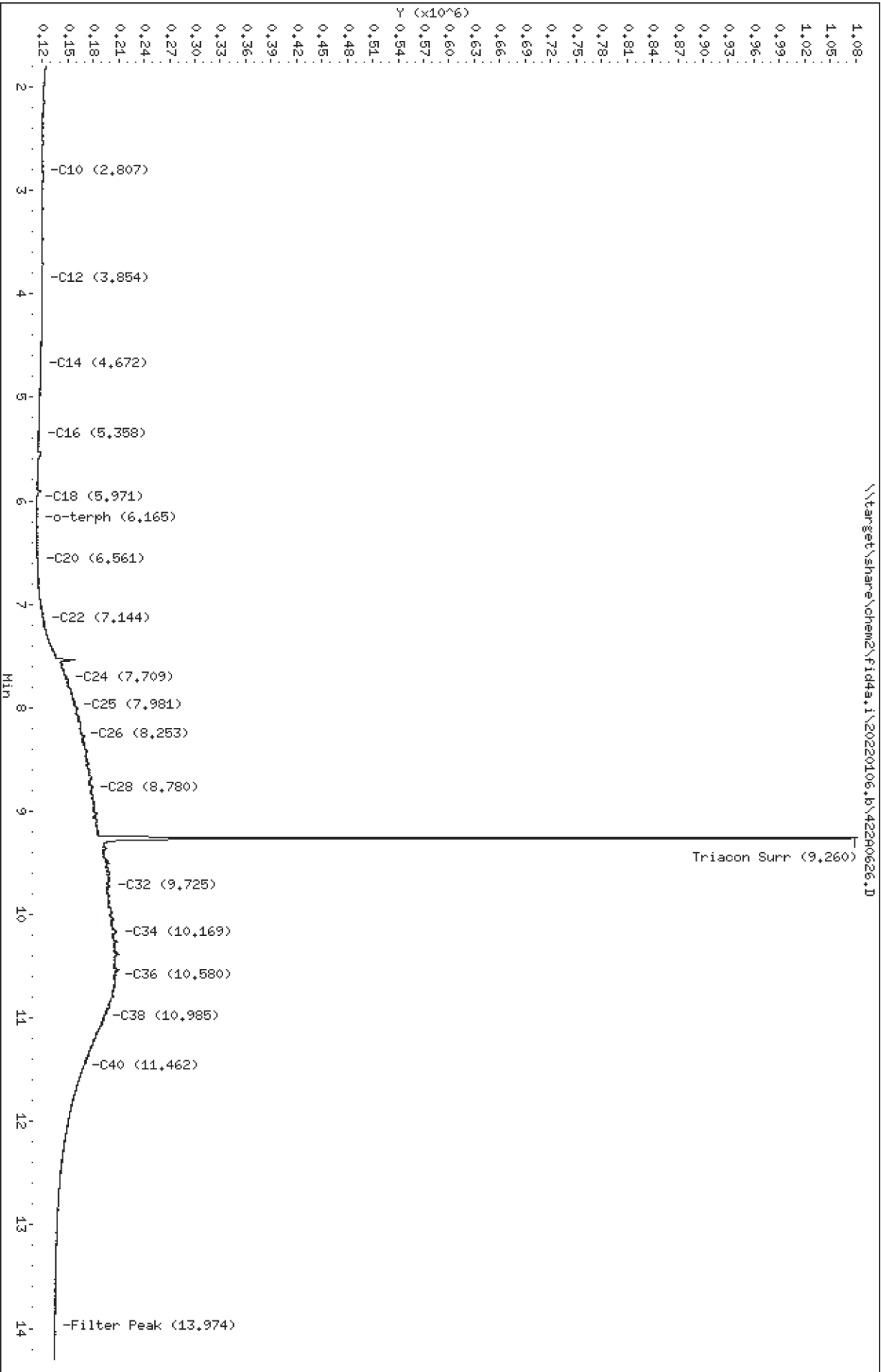
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Data File: \\target\share\chem2\fid4a,1\20220106,b\42240626.D
 Date: 06-JAN-2022 19:03
 Client ID:
 Sample Info: SKR0028-CAL7

Column phase: RTX-1

Instrument: fid4a,1
 Operator: TMC
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0626.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL7
Client ID:
Injection: 06-JAN-2022 19:03
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.567	0.001	17629	12134	WATPHD	(C12-C24)	1428990	9.8
C10	2.807	0.006	7315	5700	WATPHM	(C24-C38)	14418390	108.8
C12	3.854	-0.005	6863	3745	AK102	(C10-C25)	2314627	13.4
C14	4.672	0.004	4948	1225	AK103	(C25-C36)	11930212	120.6
C16	5.358	0.002	2549	743	OR.DIES	(C10-C28)	5302500	30.5
C18	5.971	-0.001	466	165				
C20	6.561	0.002	1433	294				
C22	7.144	0.002	8558	5362				
C24	7.709	-0.000	35231	7021				
C25	7.981	-0.005	45824	15837				
C26	8.253	-0.004	53409	34474				
C28	8.780	0.005	65326	35831				
C32	9.725	-0.005	86340	63871				
C34	10.169	0.002	95121	70488				
Filter Peak	13.974	0.001	21668	9718				
C36	10.580	-0.001	93623	60434				
C38	10.985	-0.004	79927	51632				
C40	11.462	0.002	55525	16626				
o-terph	6.165	-0.003	642	355				
Triacon Surr	9.260	-0.029	895649	780573	NAS DIES	(C10-C24)	1888344	11.0

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

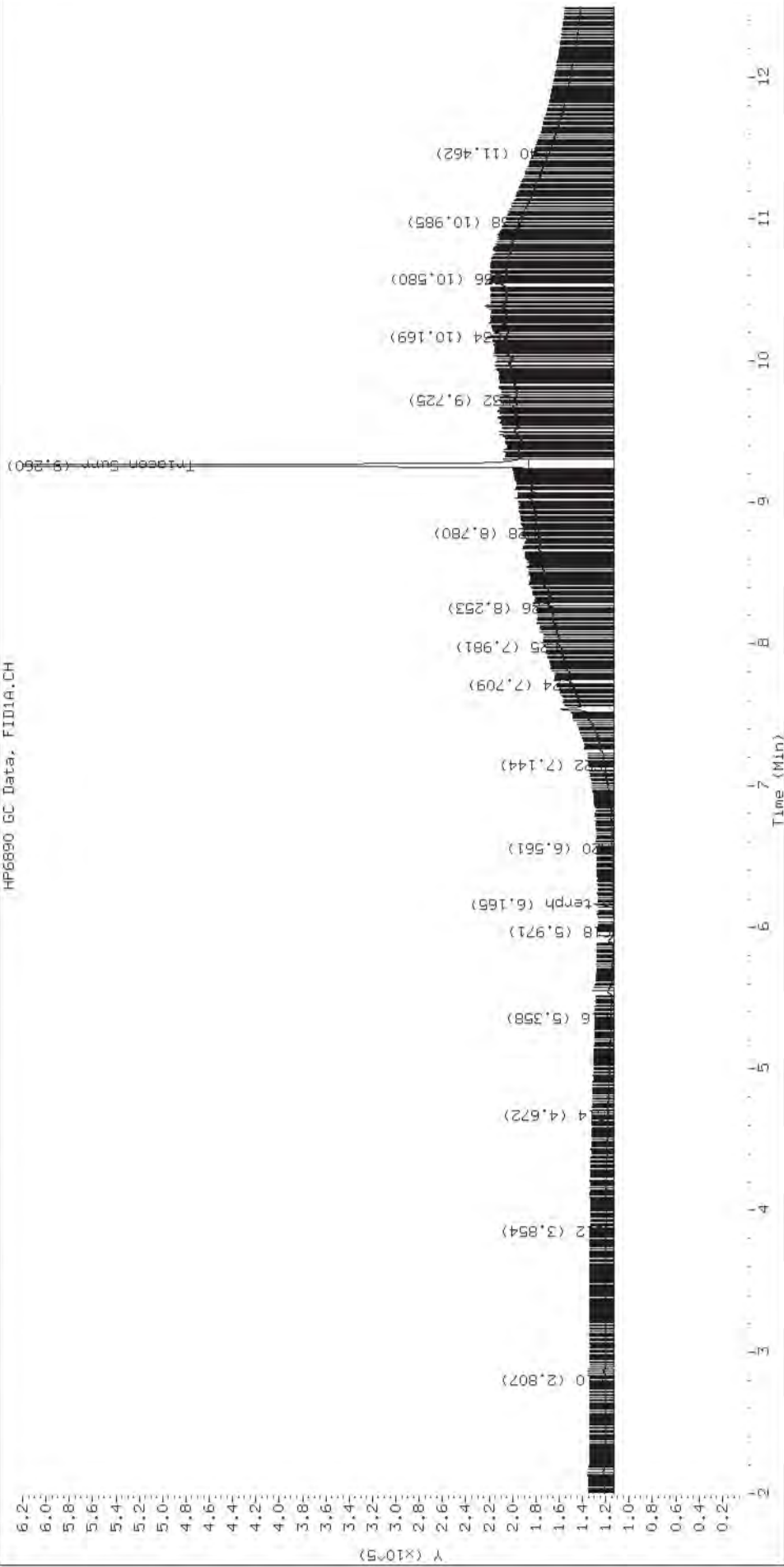
Surrogate	Area	Amount
o-Terphenyl	355	0.0
Triacontane	780573	4.5 M

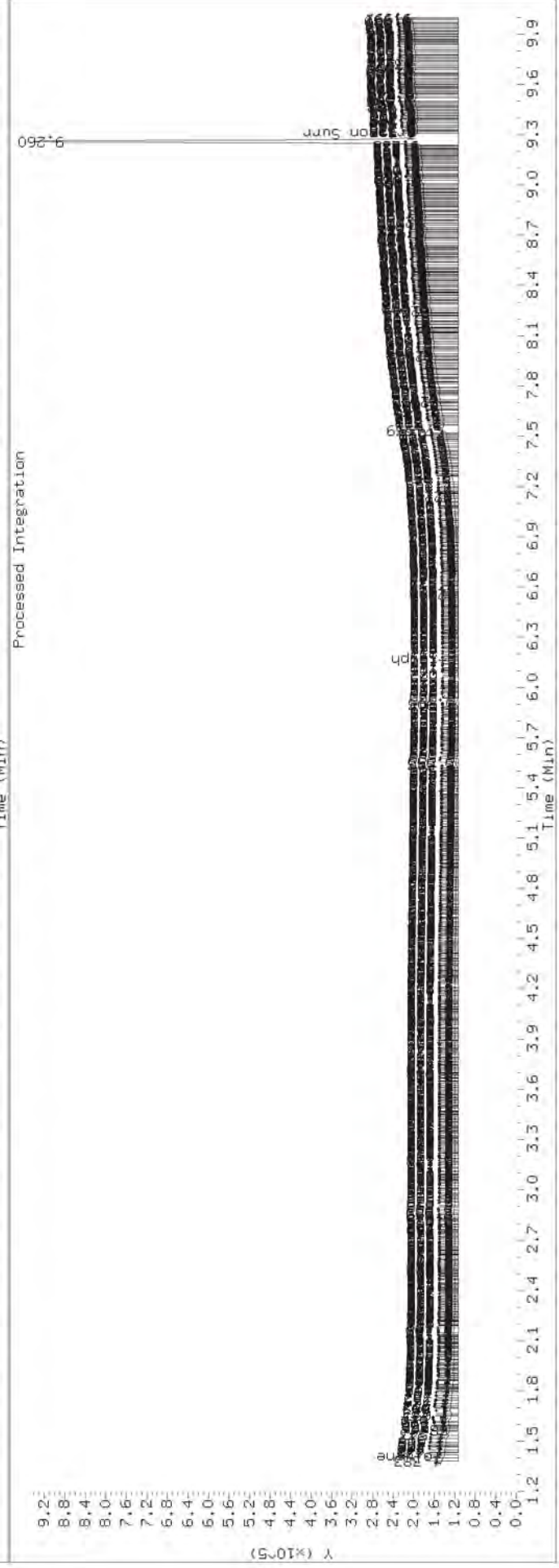
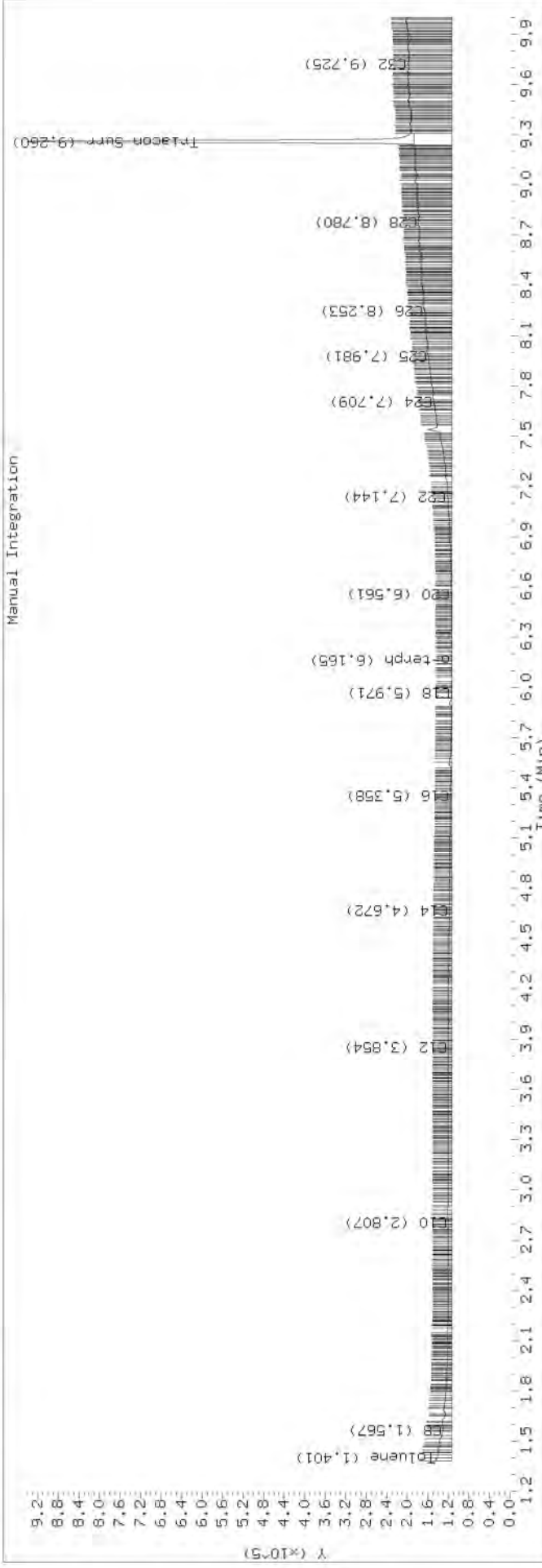
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

Datafile: FID4A, 20220106.b/422A0626.D SKA0028-CAL7

HP6890 GC Data, FID1A.CH

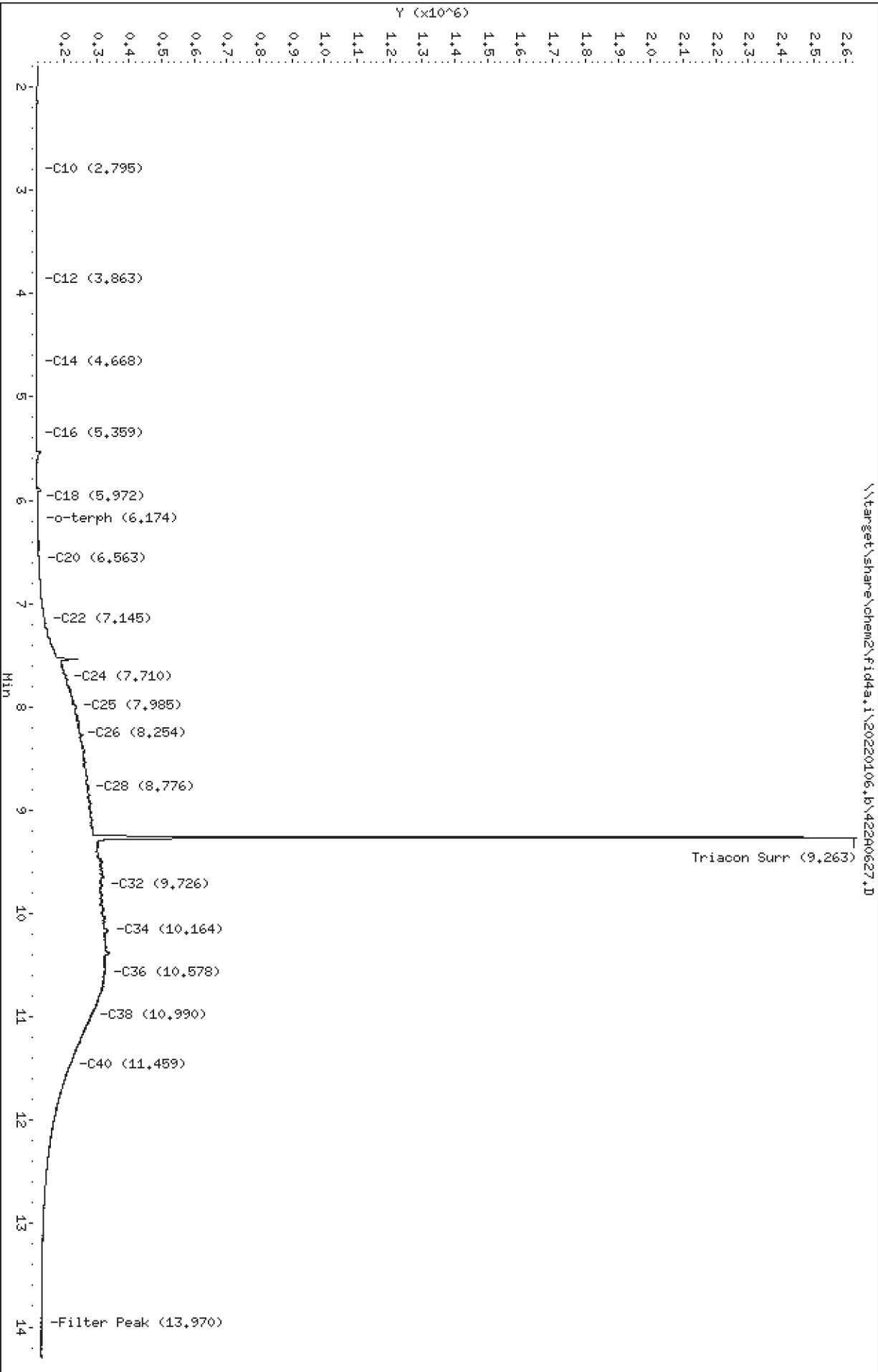




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Date: 06-JAN-2022 19:23
Client ID:
Sample Info: SKR0028-CAL8

Column phase: RTX-1

Instrument: fid4a,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0627.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL8
Client ID:
Injection: 06-JAN-2022 19:23
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.564	-0.002	10974	5451	WATPHD	(C12-C24)	2859083	19.6
C10	2.795	-0.006	709	310	WATPHM	(C24-C38)	33910212	255.8
C12	3.863	0.005	301	110	AK102	(C10-C25)	3974861	23.1
C14	4.668	-0.000	959	351	AK103	(C25-C36)	28362150	286.7
C16	5.359	0.003	1341	1255	OR.DIES	(C10-C28)	11300132	65.0
C18	5.972	-0.000	2547	737				
C20	6.563	0.004	8305	10153				
C22	7.145	0.004	24838	24382				
C24	7.710	0.001	89563	22309				
C25	7.985	-0.001	118154	98497				
C26	8.254	-0.003	131978	52511				
C28	8.776	0.001	158032	39436				
C32	9.726	-0.004	204424	200858				
C34	10.164	-0.003	219294	141700				
Filter Peak	13.970	-0.003	15114	5260				
C36	10.578	-0.003	210164	104564				
C38	10.990	0.001	167544	83266				
C40	11.459	-0.000	104690	57072				
o-terph	6.174	0.007	3070	1055				
Triacon Surr	9.263	-0.026	2341627	1948565	NAS DIES	(C10-C24)	2883231	16.8

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

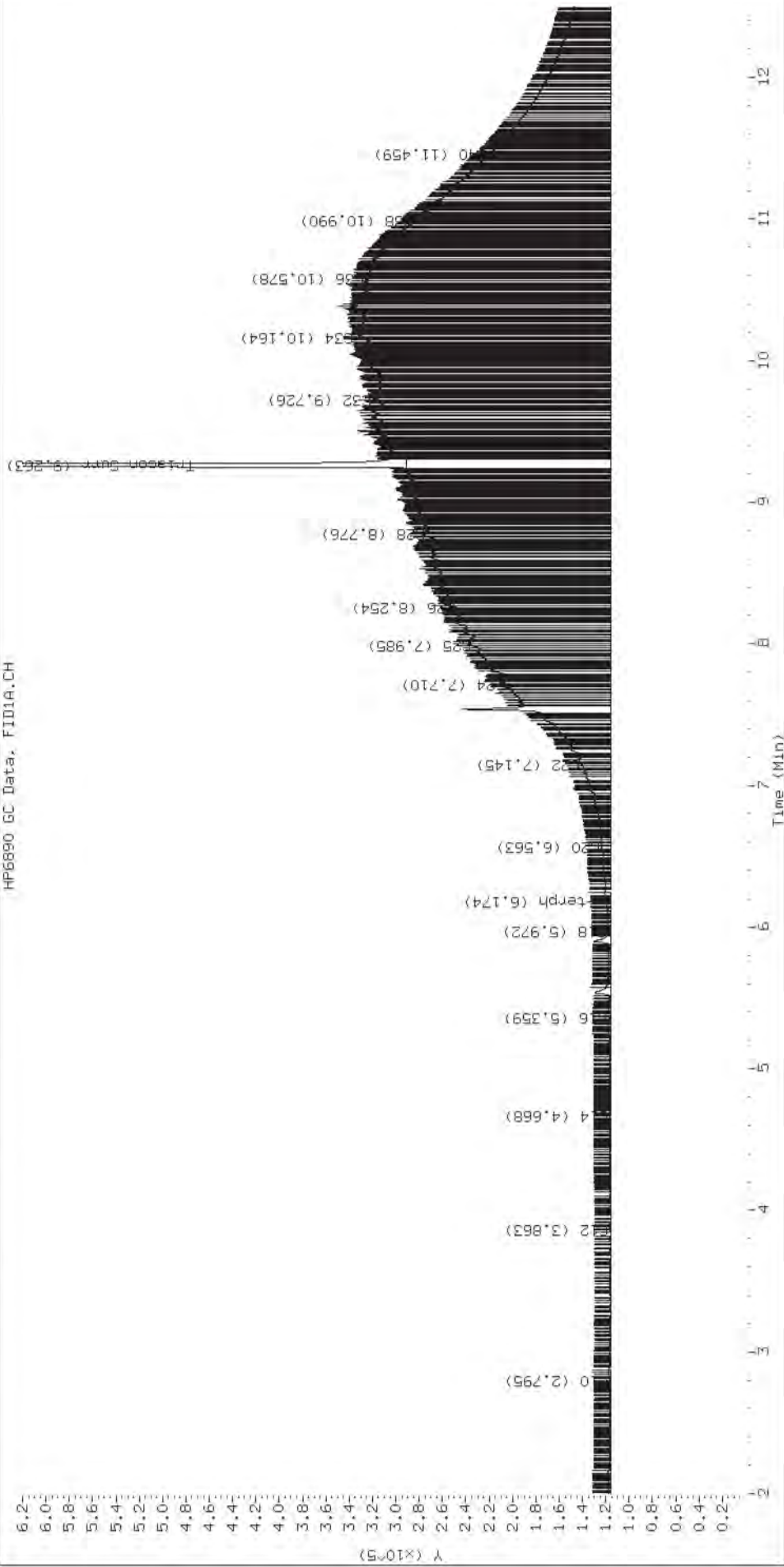
Surrogate	Area	Amount
o-Terphenyl	1055	0.0
Triacontane	1948565	11.2 M

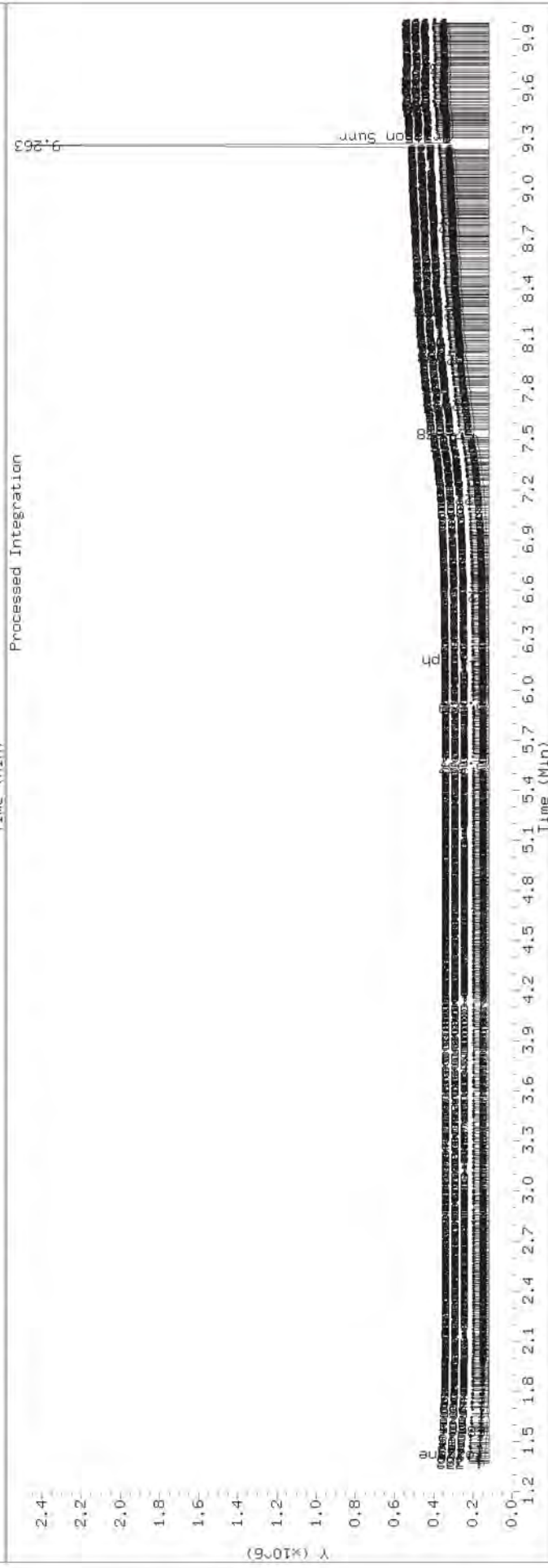
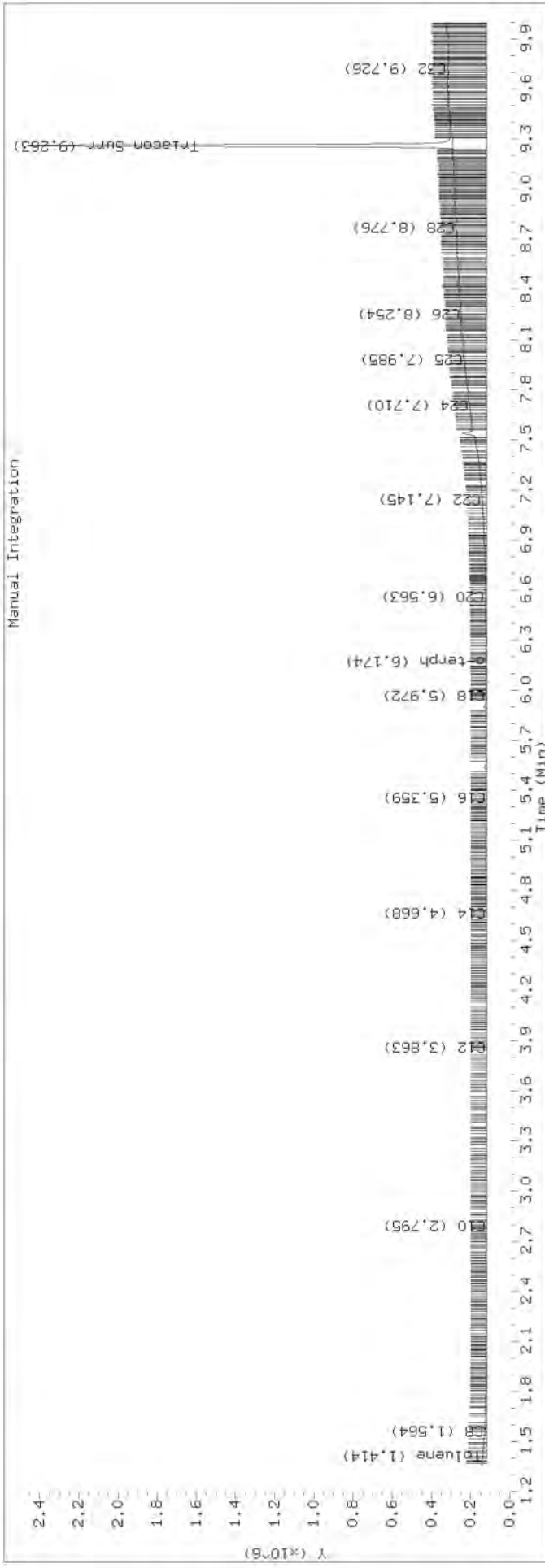
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

Datafile: FID4A, 20220106.b/422A0627.D SKA0028-CAL8

HP6890 GC Data, FID1A.CH

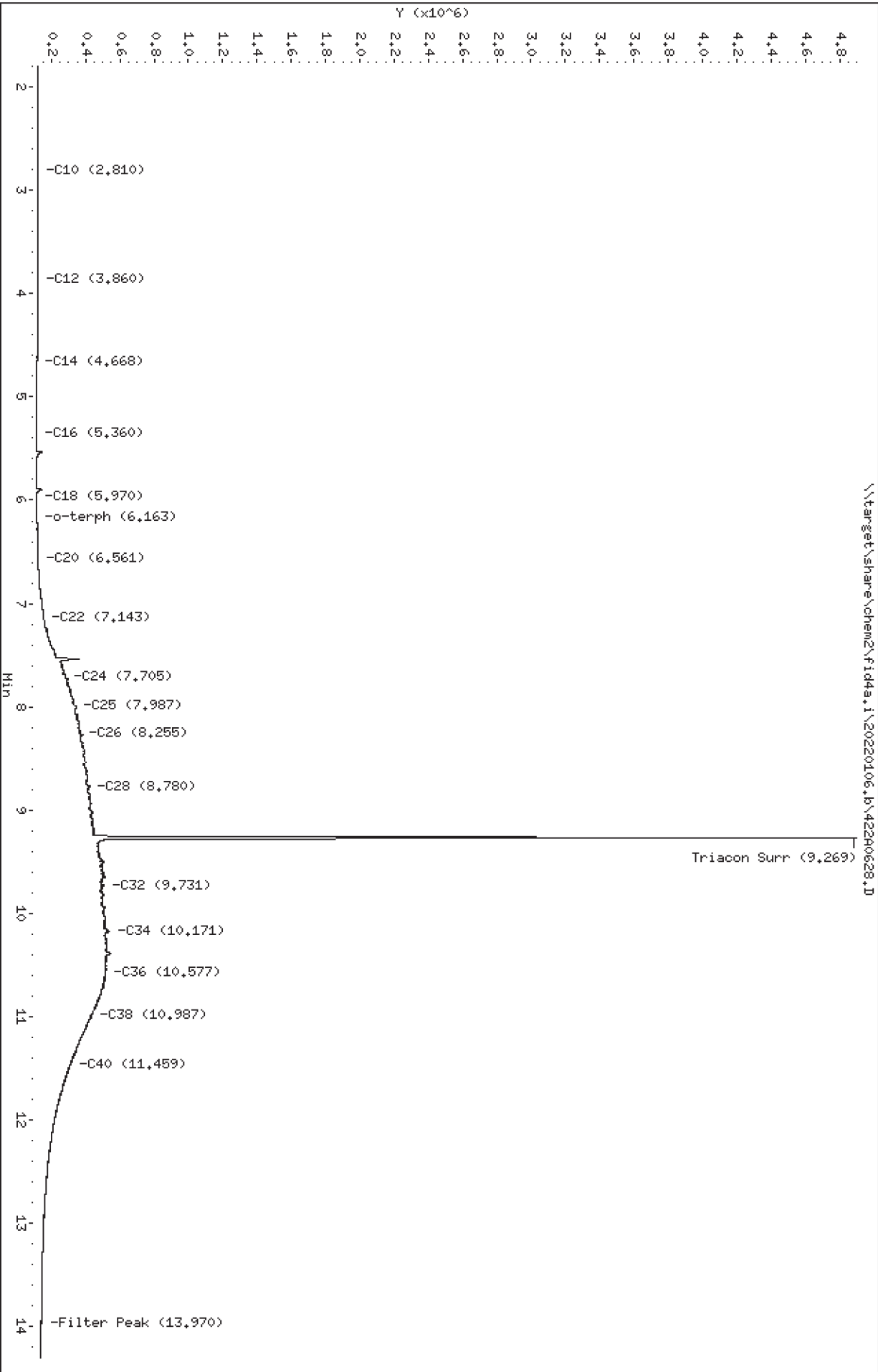




Data File: \\target\share\chem2\fid4a,1\20220106_b\42240628.D
Date: 06-JAN-2022 19:43
Client ID:
Sample Info: SKR0028-CAL9

Column phase: RTX-1

Instrument: fid4a,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0628.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CAL9
Client ID:
Injection: 06-JAN-2022 19:43
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.561	-0.005	18899	18490	WATPHD	(C12-C24)	5267715	36.1
C10	2.810	0.009	7809	6657	WATPHM	(C24-C38)	65361242	493.0
C12	3.860	0.002	6145	3630	AK102	(C10-C25)	7695397	44.7
C14	4.668	-0.000	3930	3869	AK103	(C25-C36)	54505288	551.1
C16	5.360	0.003	880	170	OR.DIES	(C10-C28)	21861512	125.8
C18	5.970	-0.002	1438	845				
C20	6.561	0.002	11665	15498				
C22	7.143	0.002	44022	42387				
C24	7.705	-0.003	169267	59011				
C25	7.987	0.001	227115	166595				
C26	8.255	-0.002	254374	63387				
C28	8.780	0.005	305712	121521				
C32	9.731	0.002	392327	135919				
C34	10.171	0.004	423466	189821				
Filter Peak	13.970	-0.003	28198	15418				
C36	10.577	-0.004	403448	160577				
C38	10.987	-0.002	321415	144011				
C40	11.459	-0.001	199069	49536				
o-terph	6.163	-0.004	2391	1211				
Triacon Surr	9.269	-0.021	4456889	3832767	NAS DIES	(C10-C24)	5689375	33.1

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

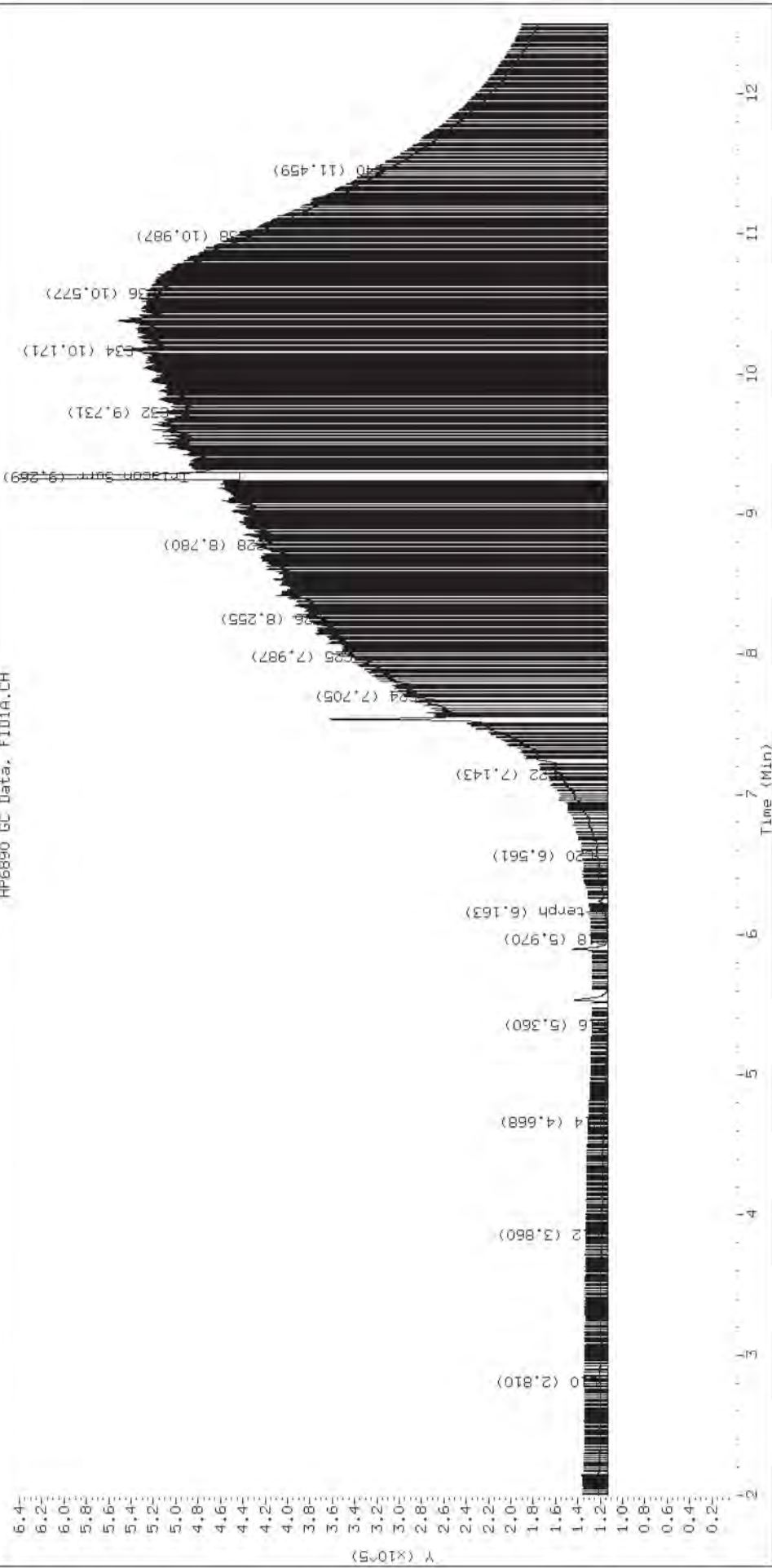
Surrogate	Area	Amount
o-Terphenyl	1211	0.0
Triacontane	3832767	22.0 M

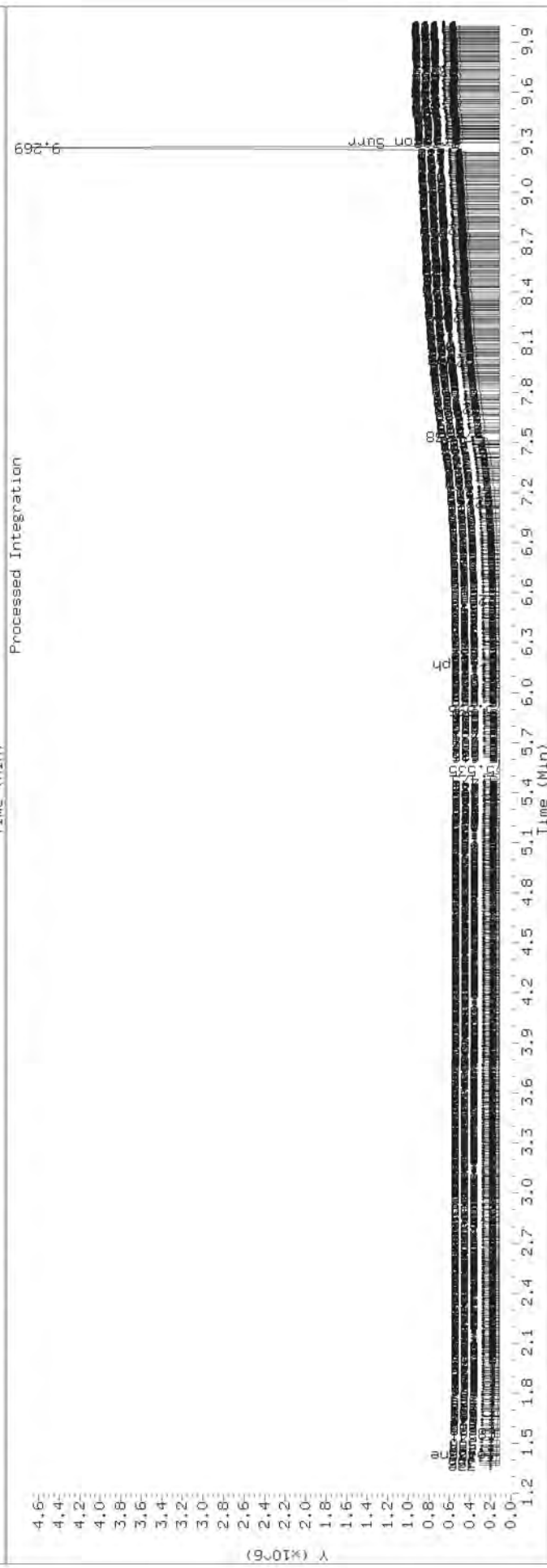
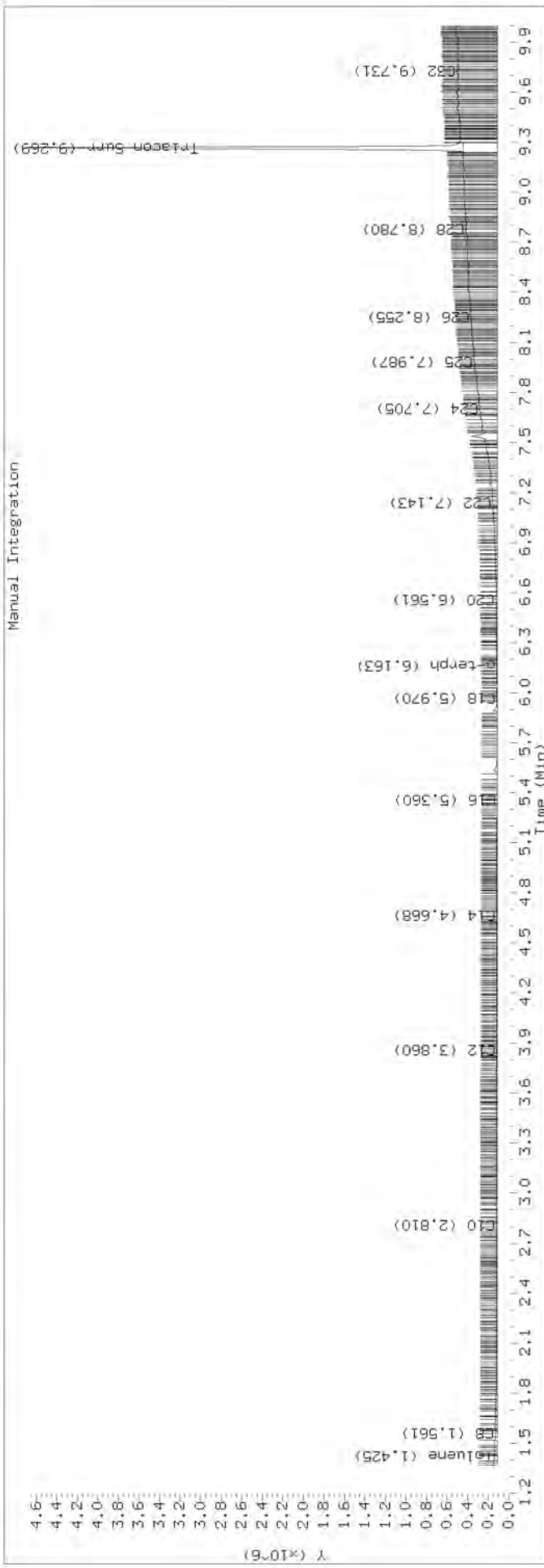
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

Datafile: FID4A, 20220106.b/422A0628.D SKA0028-CAL9

HP6890 GC Data, FID1A.CH

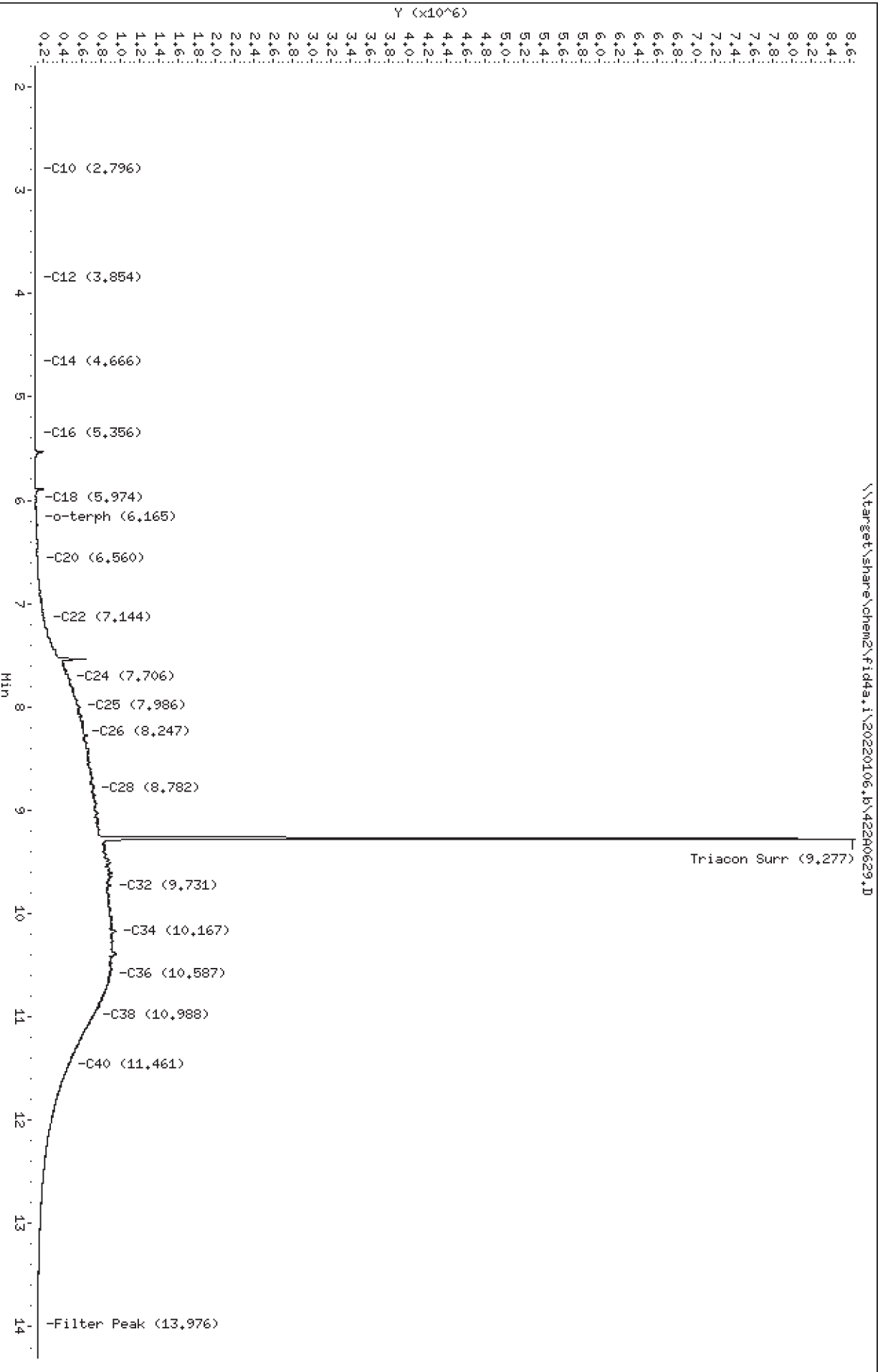




Data File: \\target\share\chem2\fid4a,1\20220106_b\42240629.D
Date: 06-JAN-2022 20:02
Client ID:
Sample Info: SKR0028-CALA

Column phase: RTX-1

Instrument: fid4a,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0629.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALA
Client ID:
Injection: 06-JAN-2022 20:02
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.566	0.000	11101	8632	WATPHD	(C12-C24)	10727647	73.6
C10	2.796	-0.005	576	147	WATPHM	(C24-C38)	129320360	975.4
C12	3.854	-0.005	1107	956	AK102	(C10-C25)	14842212	86.2
C14	4.666	-0.002	2470	1298	AK103	(C25-C36)	108544248	1097.4
C16	5.356	-0.001	3529	1197	OR.DIES	(C10-C28)	43178118	248.5
C18	5.974	0.002	7530	7872				
C20	6.560	0.000	29424	44604				
C22	7.144	0.003	93274	142646				
C24	7.706	-0.003	342850	102299				
C25	7.986	0.000	451931	245156				
C26	8.247	-0.010	508762	377501				
C28	8.782	0.007	601806	120120				
C32	9.731	0.001	789145	579688				
C34	10.167	0.000	836380	250168				
Filter Peak	13.976	0.003	27826	13801				
C36	10.587	0.006	793648	511126				
C38	10.988	-0.001	611295	302860				
C40	11.461	0.002	351554	139850				
o-terph	6.165	-0.002	9745	4761				
Triacon Surr	9.277	-0.012	7887730	7740915	NAS DIES	(C10-C24)	10771308	62.7

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

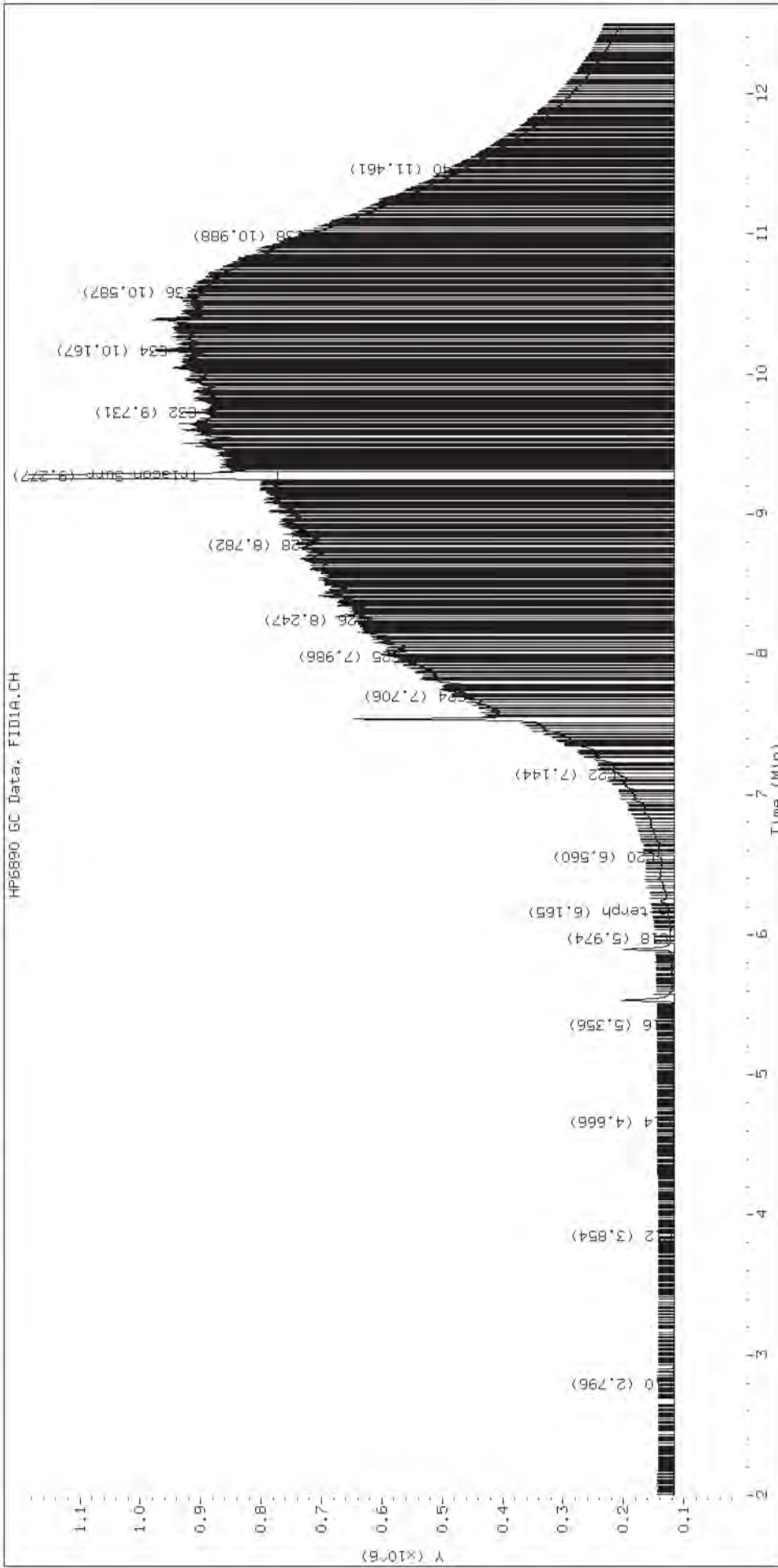
Surrogate	Area	Amount
o-Terphenyl	4761	0.0
Triacontane	7740915	44.4 M

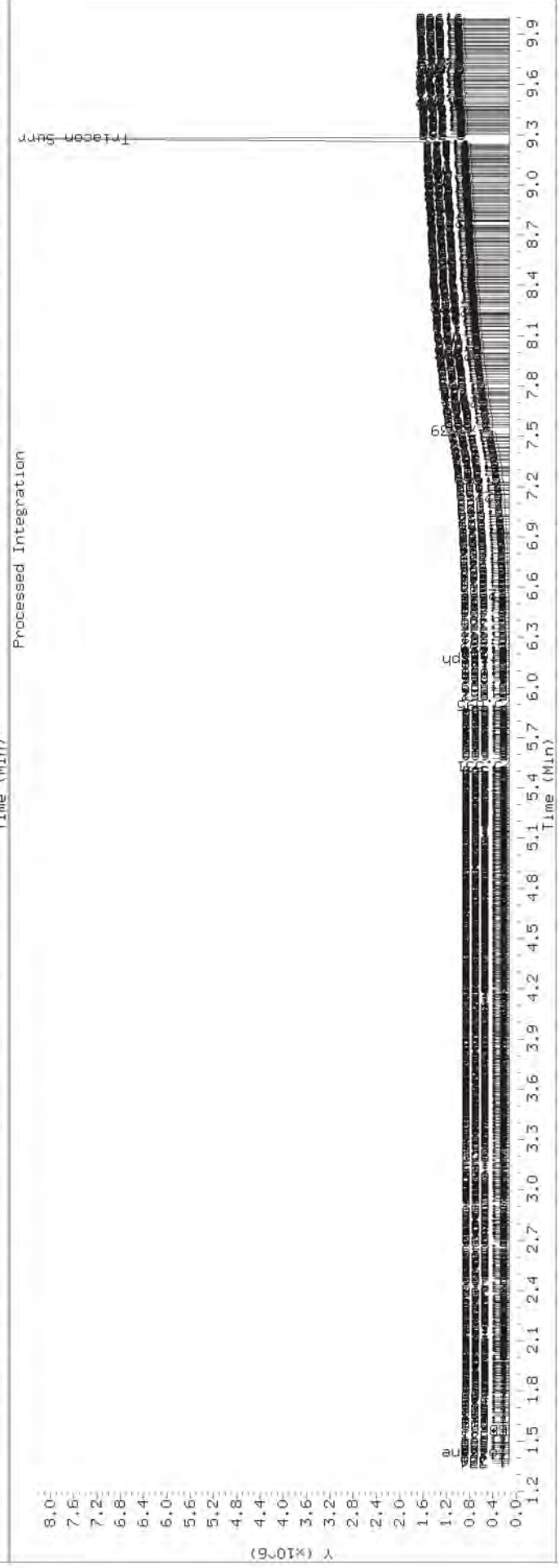
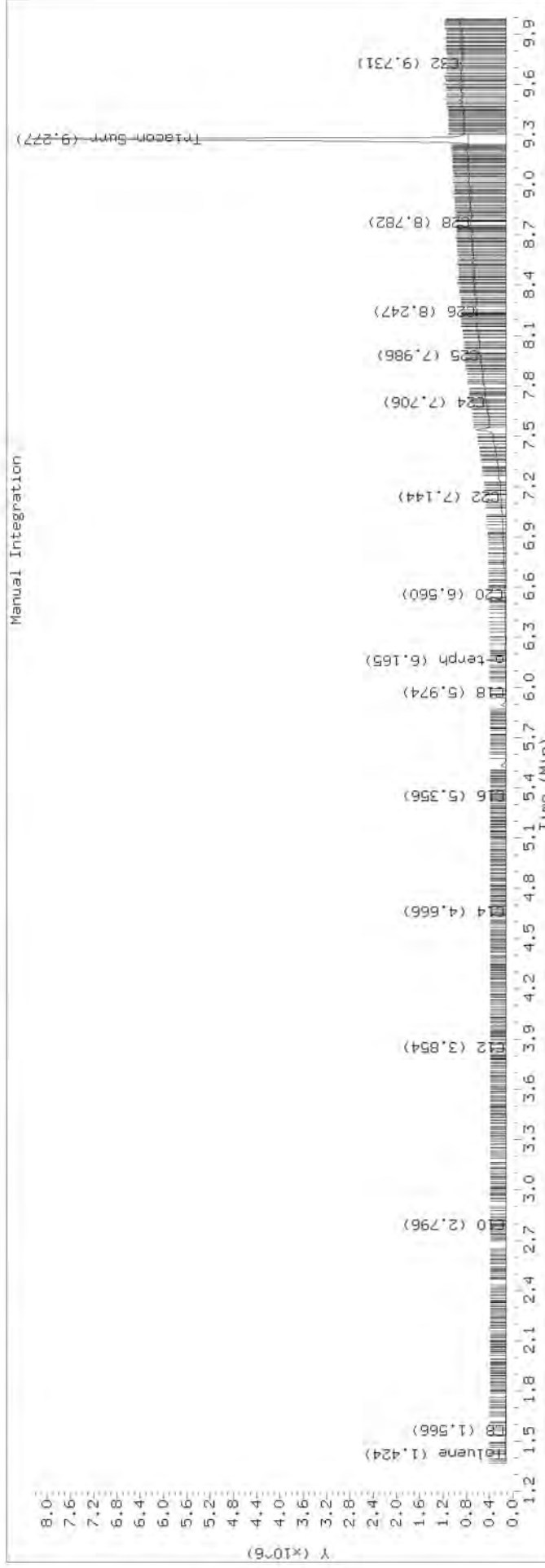
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

Datafile: FID4A, 20220106.b/422A0629.D SKA0028-CA1A

HP6890 GC Data, FID1A.CH



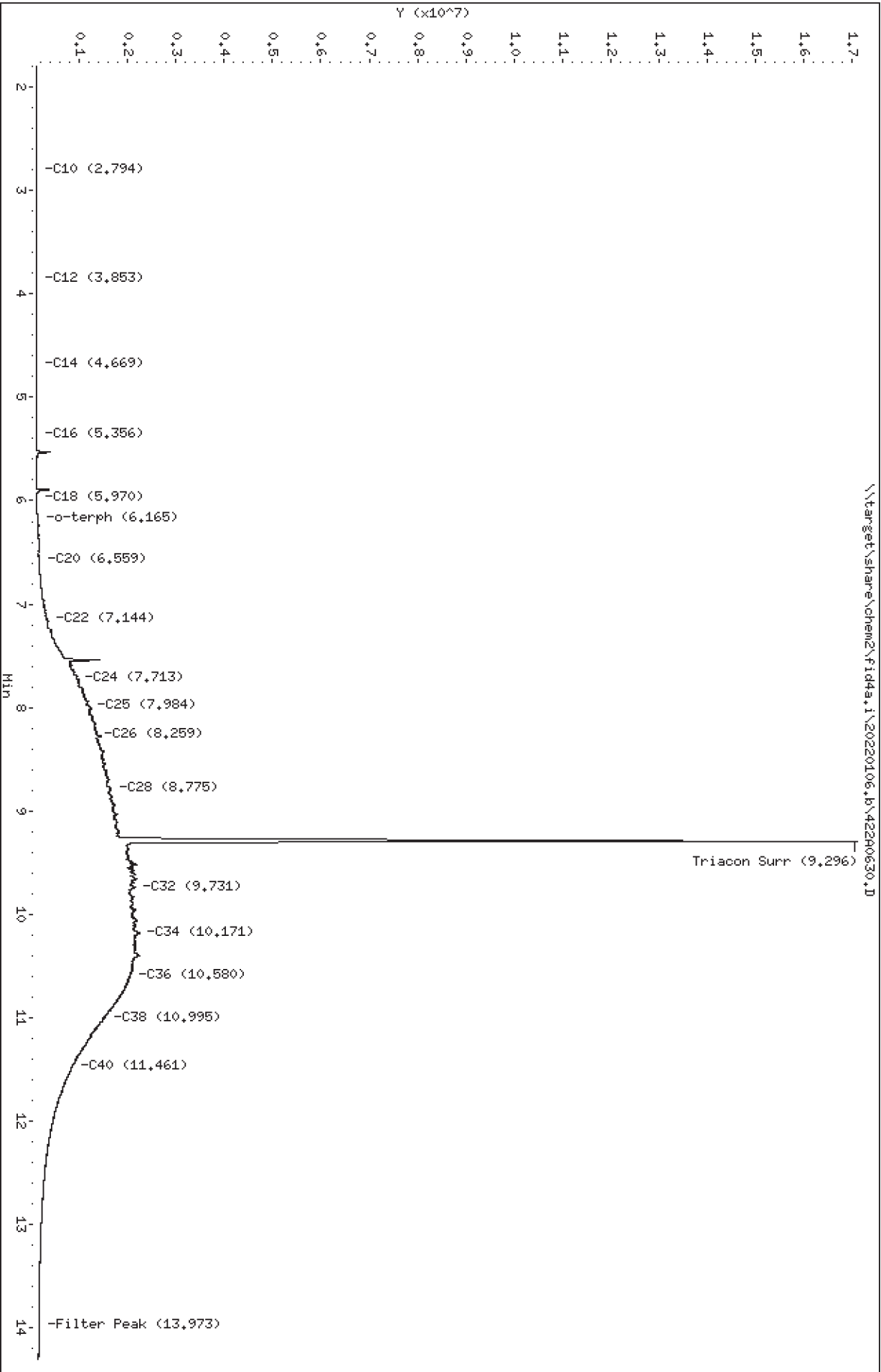


Data File: \\target\share\chem2\fid4a,1\20220106_b\42240630.D
Date: 06-JAN-2022 20:22
Client ID:
Sample Info: SKR0028-CALB

Instrument: fid4a,1

Column phase: RTX-1

Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0630.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALB
Client ID:
Injection: 06-JAN-2022 20:22
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.577	0.011	17258	4301	WATPHD	(C12-C24)	25178731	172.8
C10	2.794	-0.008	5092	3608	WATPHM	(C24-C38)	324449124	2447.2
C12	3.853	-0.006	5678	7022	AK102	(C10-C25)	35400273	205.5
C14	4.669	0.001	3839	758	AK103	(C25-C36)	273940795	2769.6
C16	5.356	-0.000	3278	2699	OR.DIES	(C10-C28)	105094526	604.8
C18	5.970	-0.002	10714	10162				
C20	6.559	-0.000	64664	142222				
C22	7.144	0.002	219141	252458				
C24	7.713	0.004	827562	247062				
C25	7.984	-0.003	1080011	687511				
C26	8.259	0.002	1238176	370748				
C28	8.775	-0.000	1545429	993360				
C32	9.731	0.001	2028162	997421				
C34	10.171	0.004	2118052	1355483				
Filter Peak	13.973	-0.000	48608	21788				
C36	10.580	-0.001	1948503	972417				
C38	10.995	0.006	1414419	841893				
C40	11.461	0.001	751652	187506				
o-terph	6.165	-0.002	15801	3901				
Triacon Surr	9.296	0.006	15269043	19868141	NAS DIES	(C10-C24)	25505234	148.5

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

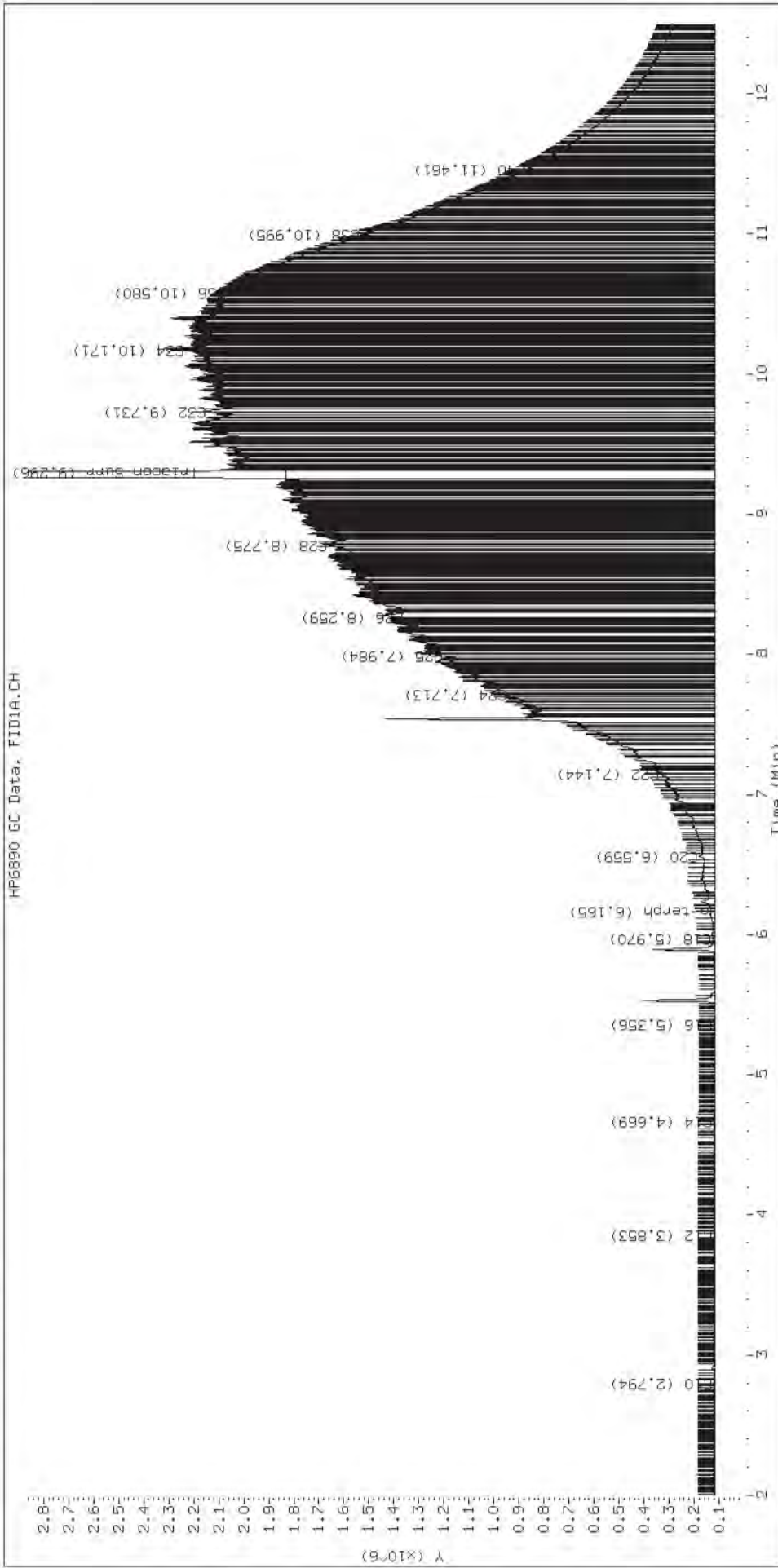
Surrogate	Area	Amount
o-Terphenyl	3901	0.0
Triacontane	19868141	114.0 M

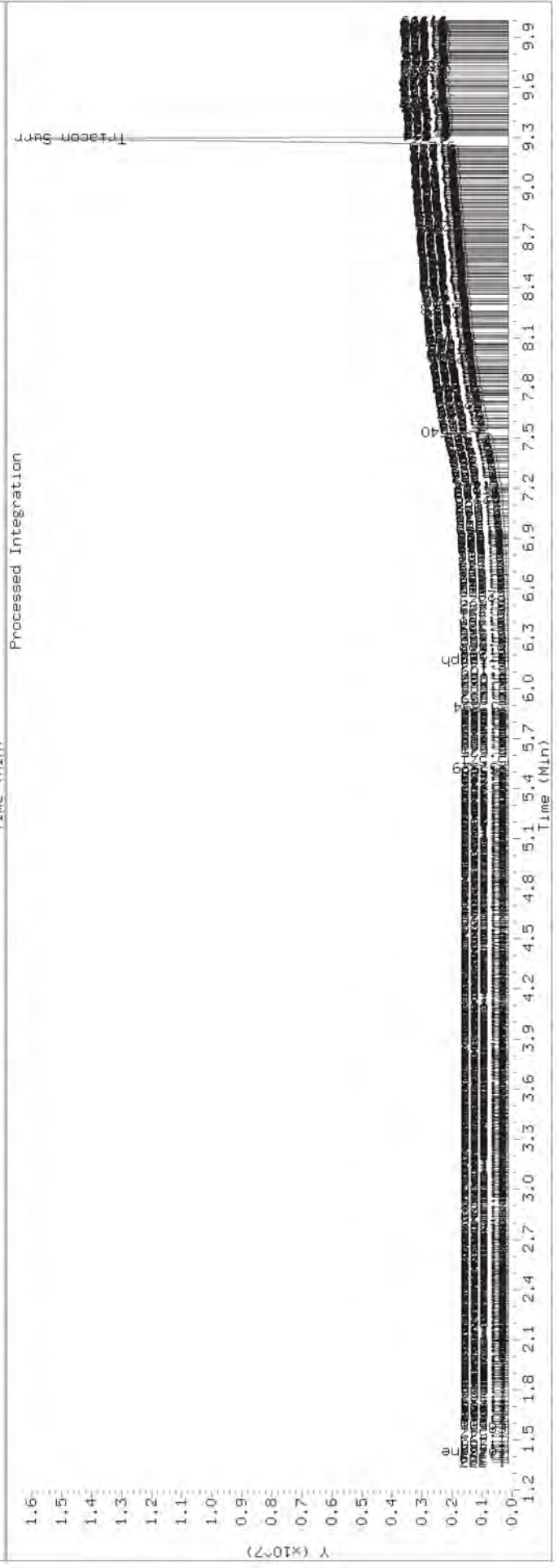
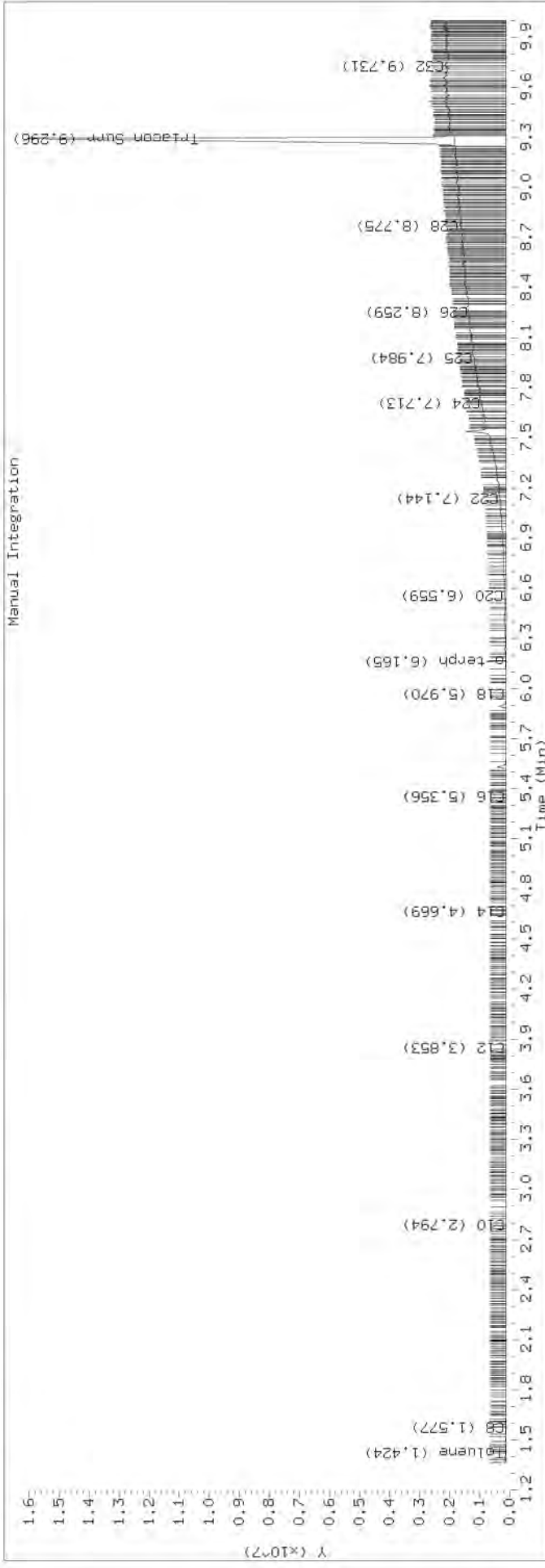
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

Datafile: FID4A, 20220106.b/422A0630.D SKA0028-CALB

HP6890 GC Data, FID1A.CH



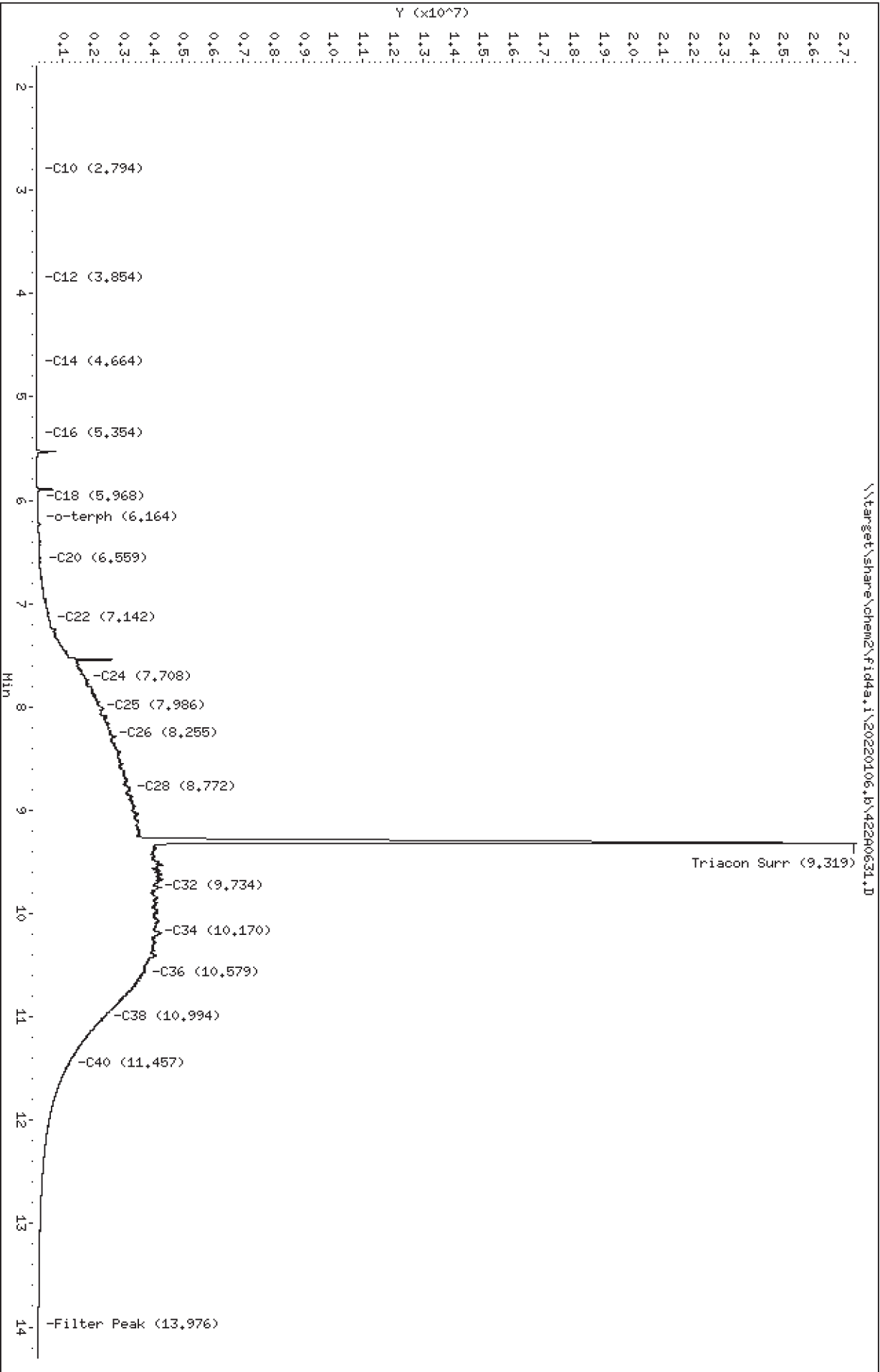


Data File: \\target\share\chem2\fid4a,1\20220106_b\42240631.D
Date: 06-JAN-2022 20:42
Client ID:
Sample Info: SKR0028-CALC

Instrument: fid4a,1

Column phase: RTX-1

Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0631.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALC
Client ID:
Injection: 06-JAN-2022 20:42
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.567	0.001	12437	6794	WATPHD	(C12-C24)	50023505	343.2
C10	2.794	-0.007	1603	1382	WATPHM	(C24-C38)	629138264	4745.4
C12	3.854	-0.004	5247	5695	AK102	(C10-C25)	69619933	404.2
C14	4.664	-0.004	10564	11502	AK103	(C25-C36)	540174647	5461.3
C16	5.354	-0.002	16087	34954	OR.DIES	(C10-C28)	208310669	1198.8
C18	5.968	-0.004	32949	39919				
C20	6.559	-0.000	138972	310447				
C22	7.142	0.001	427301	781717				
C24	7.708	-0.001	1605305	638932				
C25	7.986	-0.000	2072035	718075				
C26	8.255	-0.002	2467694	982346				
C28	8.772	-0.004	3074685	1975887				
C32	9.734	0.005	3999709	2176432				
C34	10.170	0.003	3982476	2371685				
Filter Peak	13.976	0.003	62326	40134				
C36	10.579	-0.003	3557173	2116083				
C38	10.994	0.006	2297213	1137312				
C40	11.457	-0.003	1081035	1006449				
o-terph	6.164	-0.003	41429	10336				
Triacon Surr	9.319	0.029	23838567	40429932	NAS DIES	(C10-C24)	50155994	292.0

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

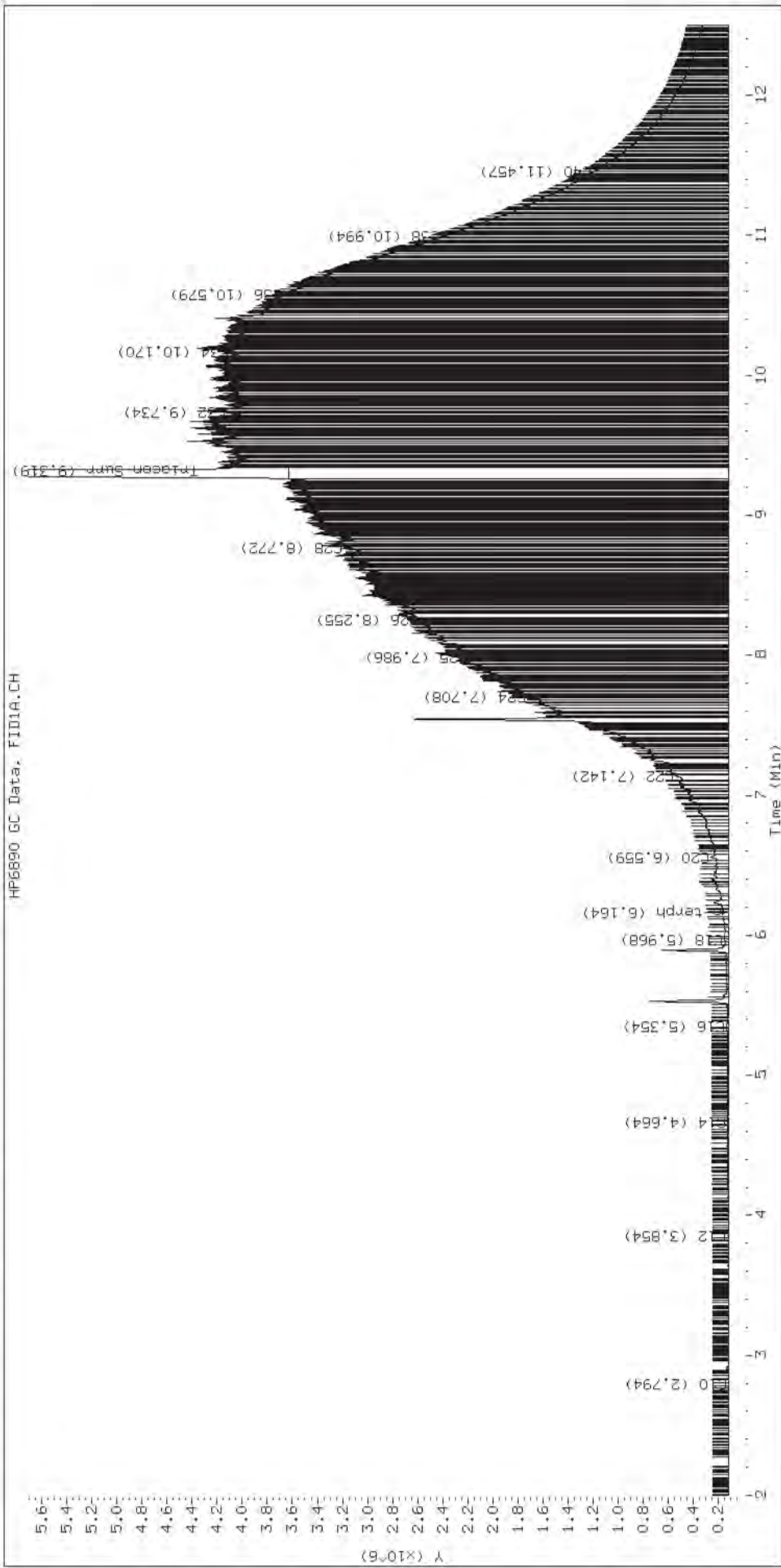
Surrogate	Area	Amount
o-Terphenyl	10336	0.1
Triacontane	40429932	232.1 M

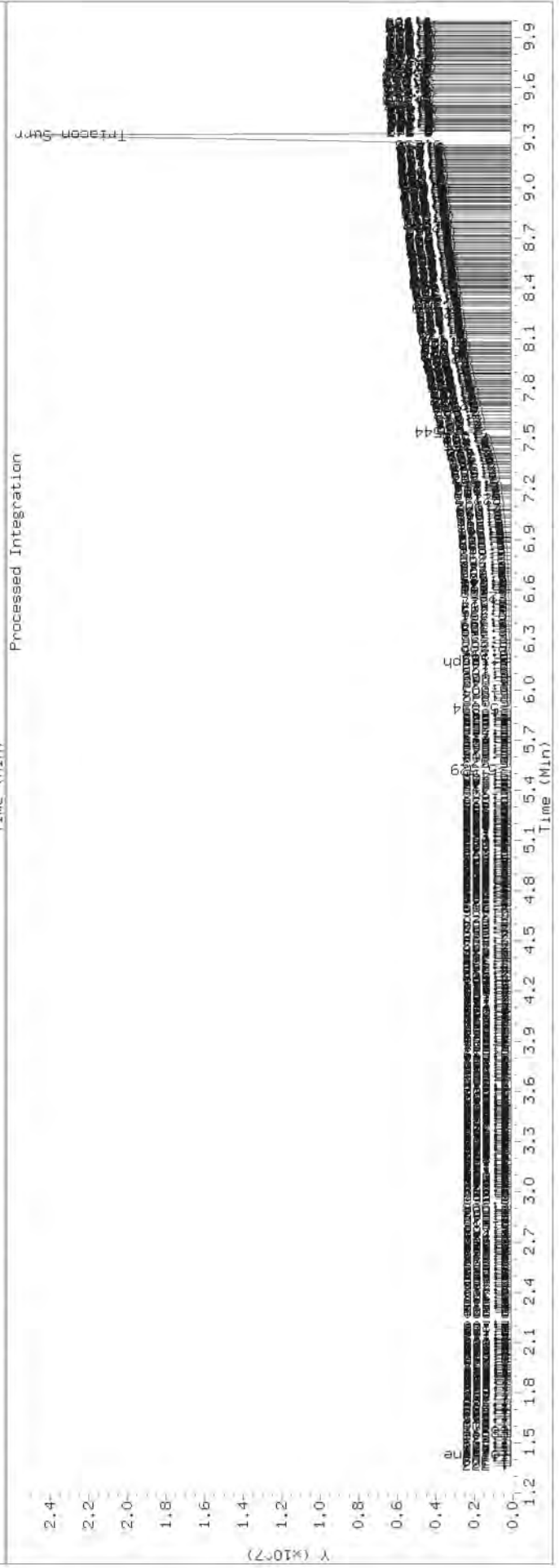
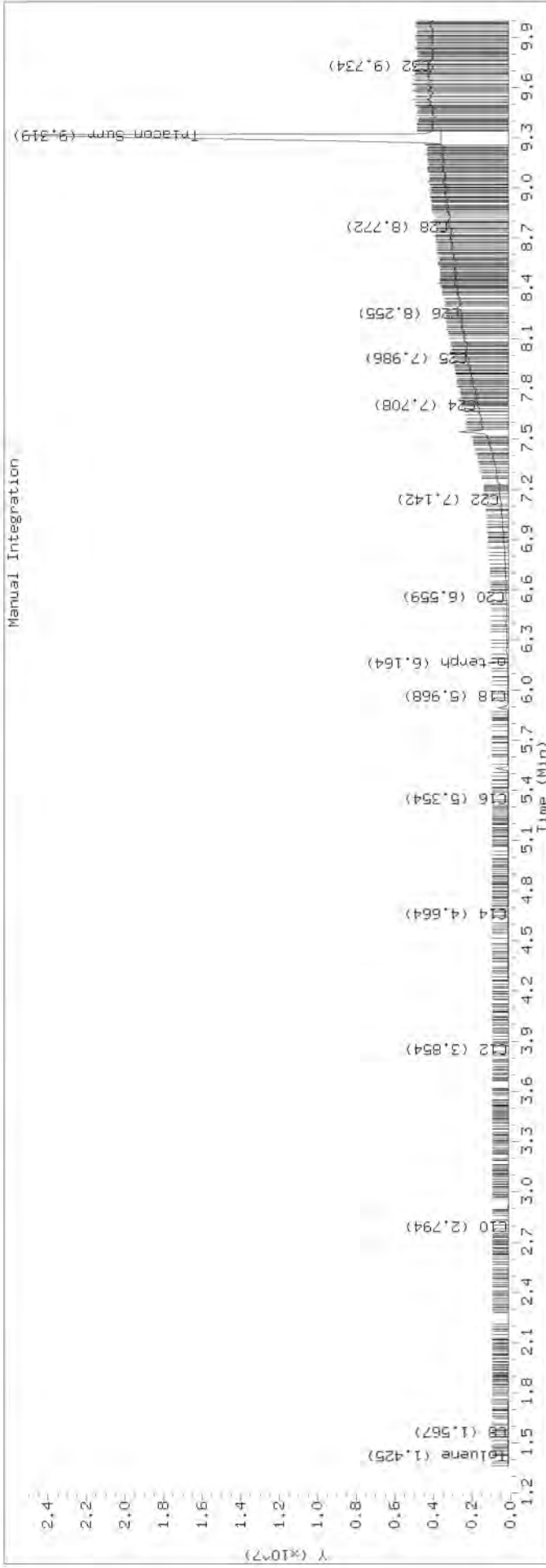
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

Datafile: FID4A, 20220106.b/422A0631.D SKA0028-CALC

HP6890 GC Data, FID1A.CH

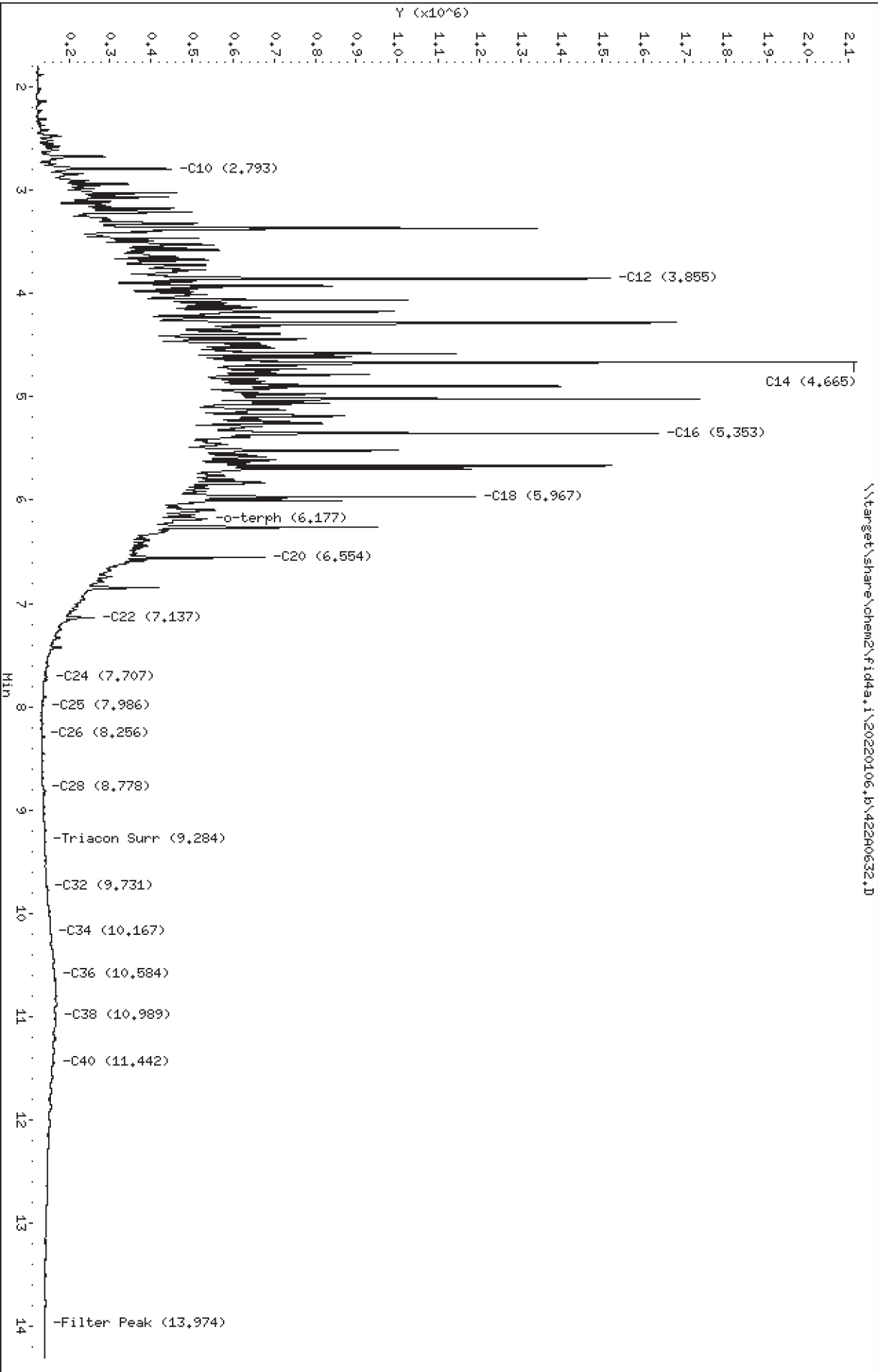




Data File: \\target\share\chem2\fid4a,1\20220106_b\42240632.D
Date: 06-JAN-2022 21:02
Client ID:
Sample Info: SKR0028-SCW1

Column phase: RTX-1

Instrument: fid4a,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0632.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-SCV1
Client ID:
Injection: 06-JAN-2022 21:02
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.554	-0.012	13447	19907	WATPHD	(C12-C24)	81818326	561.4
C10	2.793	-0.008	328700	402623	WATPHM	(C24-C38)	4903930	37.0
C12	3.855	-0.003	1398359	1541786	AK102	(C10-C25)	98237239	570.4
C14	4.665	-0.003	1998212	2275704	AK103	(C25-C36)	3617447	36.6
C16	5.353	-0.003	1514409	1842028	OR.DIES	(C10-C28)	98957633	569.5
C18	5.967	-0.005	1069816	1029152				
C20	6.554	-0.005	555197	666071				
C22	7.137	-0.004	141564	207118				
C24	7.707	-0.002	25196	52303				
C25	7.986	-0.000	18136	25237				
C26	8.256	-0.001	12963	11391				
C28	8.778	0.002	15805	6221				
C32	9.731	0.002	24227	8392				
C34	10.167	-0.000	33488	11671				
Filter Peak	13.974	0.001	19683	11641				
C36	10.584	0.003	44128	15372				
C38	10.989	0.001	46492	34691				
C40	11.442	-0.018	43094	144180				
o-terph	6.177	0.010	416300	426651				
Triacon Surr	9.284	-0.006	19261	10418	NAS DIES	(C10-C24)	98063156	571.0

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

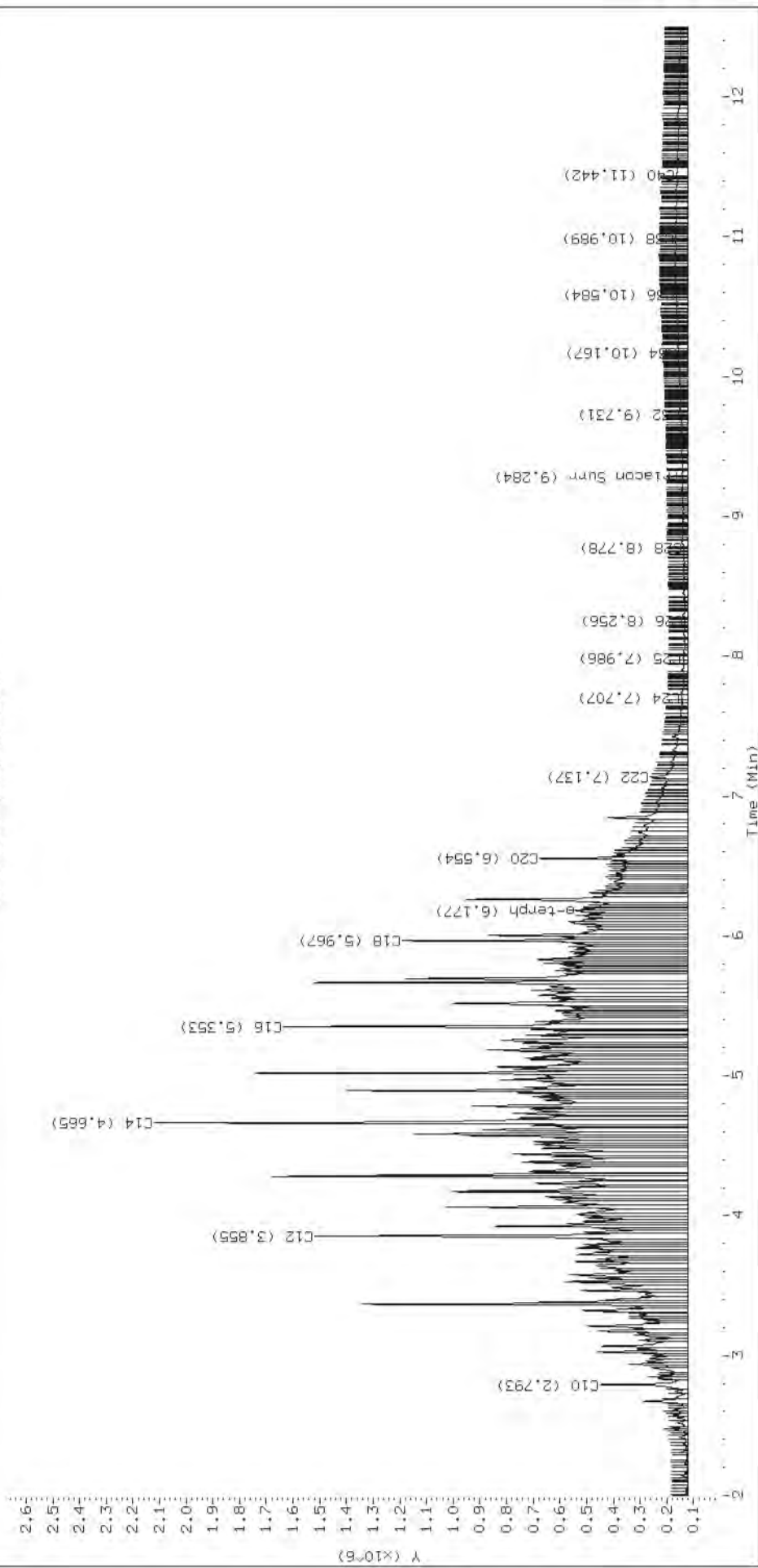
Surrogate	Area	Amount
o-Terphenyl	426651	2.2
Triacontane	10418	0.1

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

Datafile: FID4A, 20220106.b/422A0632.D SKA0028-SCV1

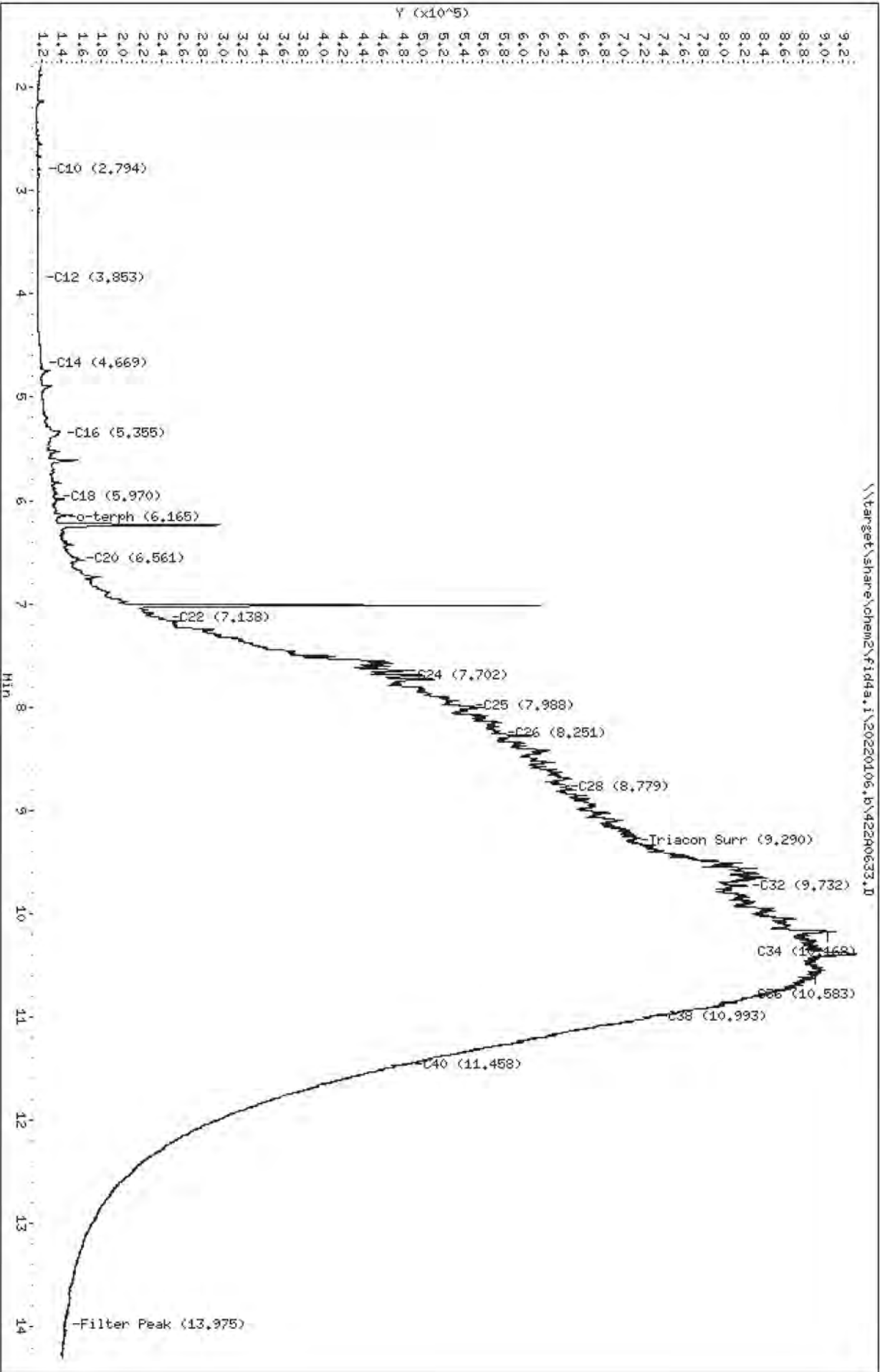
HP6890 GC Data, FID1A.CH



Data File: \\target\share\chem2\fid4a,1\20220106_b\42240633.D
Date: 06-JAN-2022 21:21
Client ID:
Sample Info: SK00028-SCV2

Column phase: RTX-1

Instrument: fid4a,1
Operator: TMC
Column diameter: 0.25



\\target\share\chem2\fid4a,1\20220106_b\42240633.D

Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0633.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-SCV2
Client ID:
Injection: 06-JAN-2022 21:21
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.571	0.005	9397	3234	WATPHD	(C12-C24)	14056895	96.4
C10	2.794	-0.008	3468	3249	WATPHM	(C24-C38)	119954259	904.8
C12	3.853	-0.006	1998	1502	AK102	(C10-C25)	18142709	105.3
C14	4.669	0.001	4718	2557	AK103	(C25-C36)	98929750	1000.2
C16	5.355	-0.002	21381	13437	OR.DIES	(C10-C28)	43590146	250.9
C18	5.970	-0.003	18024	5393				
C20	6.561	0.002	41385	47221				
C22	7.138	-0.003	126282	164868				
C24	7.702	-0.007	364294	249450				
C25	7.988	0.002	429789	170231				
C26	8.251	-0.006	461561	275289				
C28	8.779	0.003	524231	157049				
C32	9.732	0.002	706043	454955				
C34	10.168	0.001	792309	274623				
Filter Peak	13.975	0.002	27946	6956				
C36	10.583	0.002	779610	310190				
C38	10.993	0.004	614371	153291				
C40	11.458	-0.002	369218	346346				
o-terph	6.165	-0.002	22790	28222				
Triacon Surr	9.290	-0.000	594134	295766	NAS DIES	(C10-C24)	14144817	82.4

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

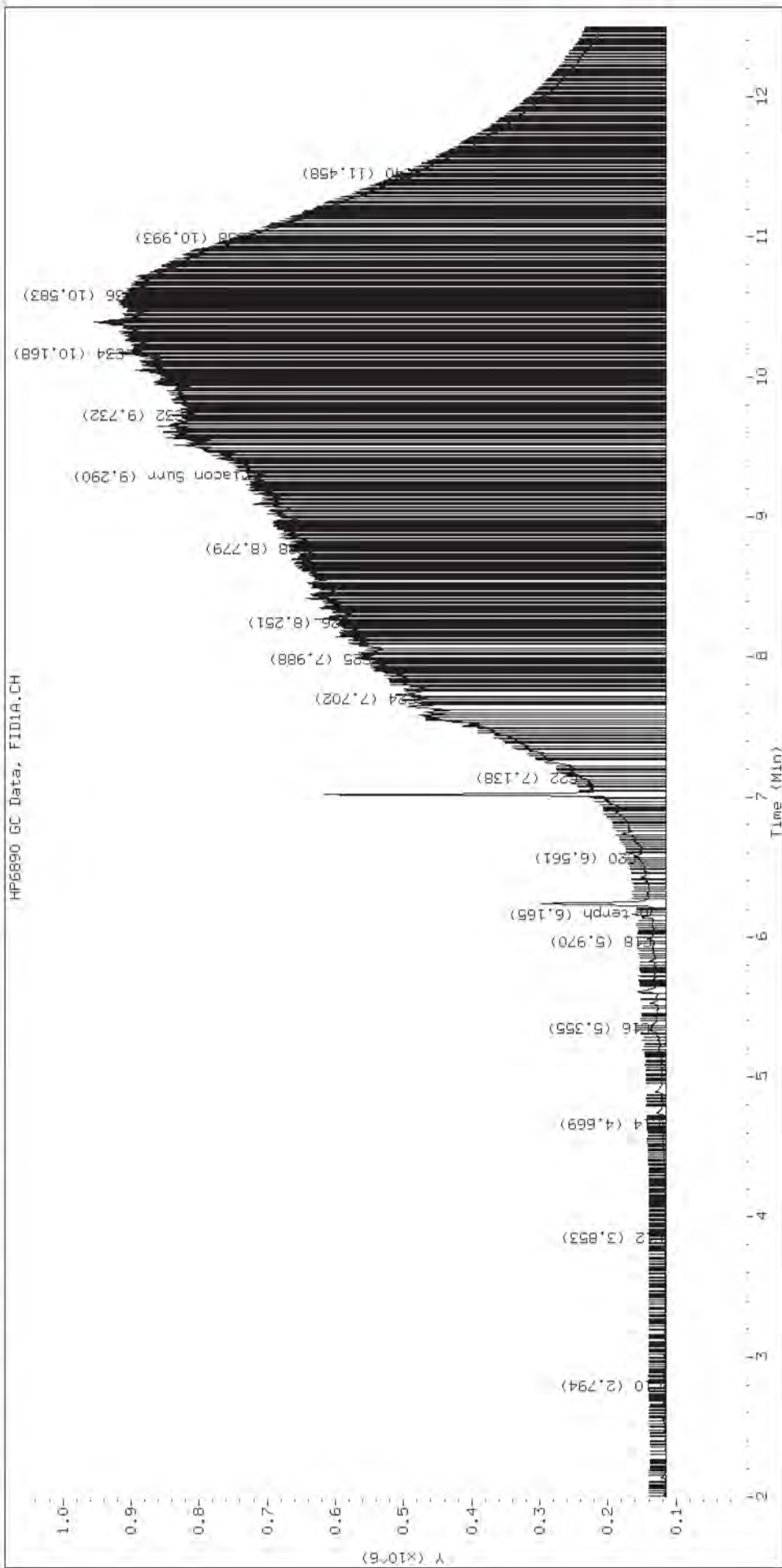
Surrogate	Area	Amount
o-Terphenyl	28222	0.1
Triacontane	295766	1.7

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

Datafile: FID4A, 20220106.b/422A0633.D SKA0028-SCV2

HP6890 GC Data, FID1A.CH

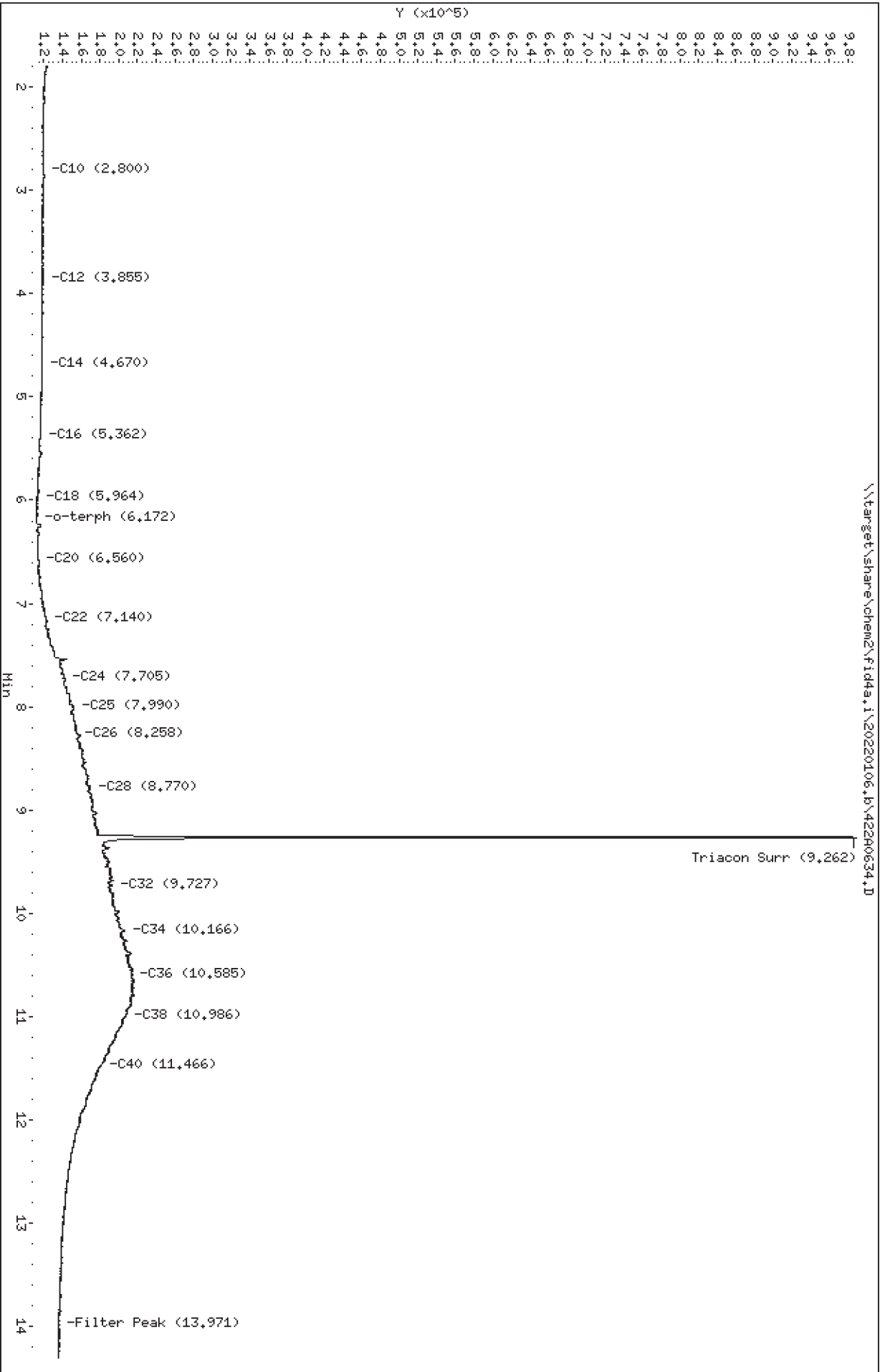


Data File: \\target\share\chem2\fid4a,1\20220106,b\42280634.D
Date : 06-JAN-2022 21:41
Client ID:
Sample Info: SKR0028-CALD

Instrument: fid4a,1

Column phase: RTX-1

Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0634.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALD
Client ID:
Injection: 06-JAN-2022 21:41
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.567	0.001	17146	19314	WATPHD	(C12-C24)	1474779	10.1
C10	2.800	-0.002	6919	1375	WATPHM	(C24-C38)	13771790	103.9
C12	3.855	-0.003	6785	3685	AK102	(C10-C25)	2234932	13.0
C14	4.670	0.002	6048	2401	AK103	(C25-C36)	10945533	110.7
C16	5.362	0.006	3993	2753	OR.DIES	(C10-C28)	4695847	27.0
C18	5.964	-0.008	893	555				
C20	6.560	-0.000	1925	933				
C22	7.140	-0.001	10540	7151				
C24	7.705	-0.004	29831	19074				
C25	7.990	0.003	39026	43181				
C26	8.258	0.001	43157	10746				
C28	8.770	-0.005	57286	39691				
C32	9.727	-0.003	80921	56092				
C34	10.166	-0.001	93902	74517				
Filter Peak	13.971	-0.002	23966	5967				
C36	10.585	0.004	101870	25421				
C38	10.986	-0.003	96118	43017				
C40	11.466	0.007	69773	58785				
o-terph	6.172	0.005	280	151				
Triacon Surr	9.262	-0.028	812213	727031	NAS DIES	(C10-C24)	1904331	11.1

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

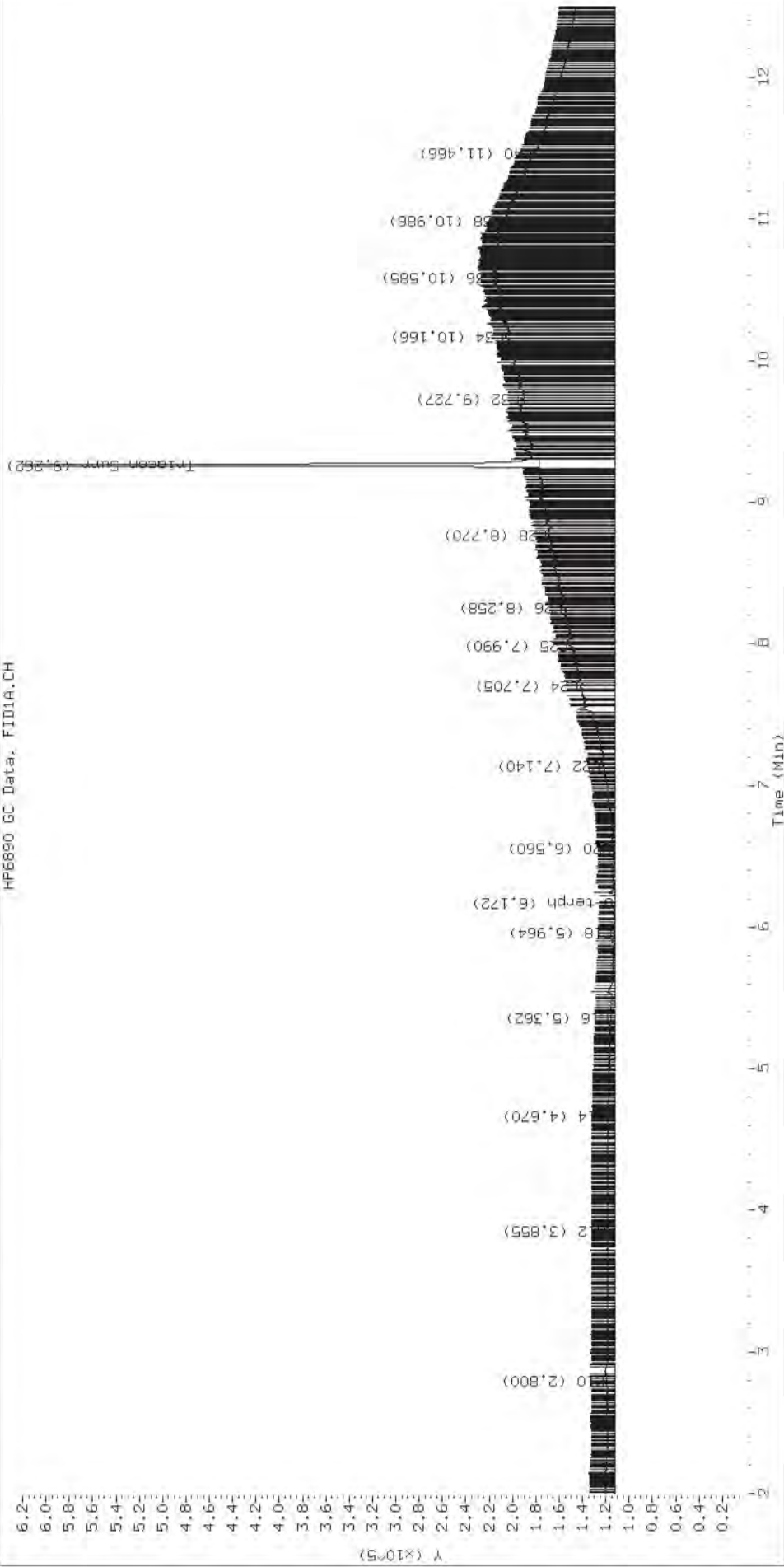
Surrogate	Area	Amount
o-Terphenyl	151	0.0
Triacontane	727031	4.2 M

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

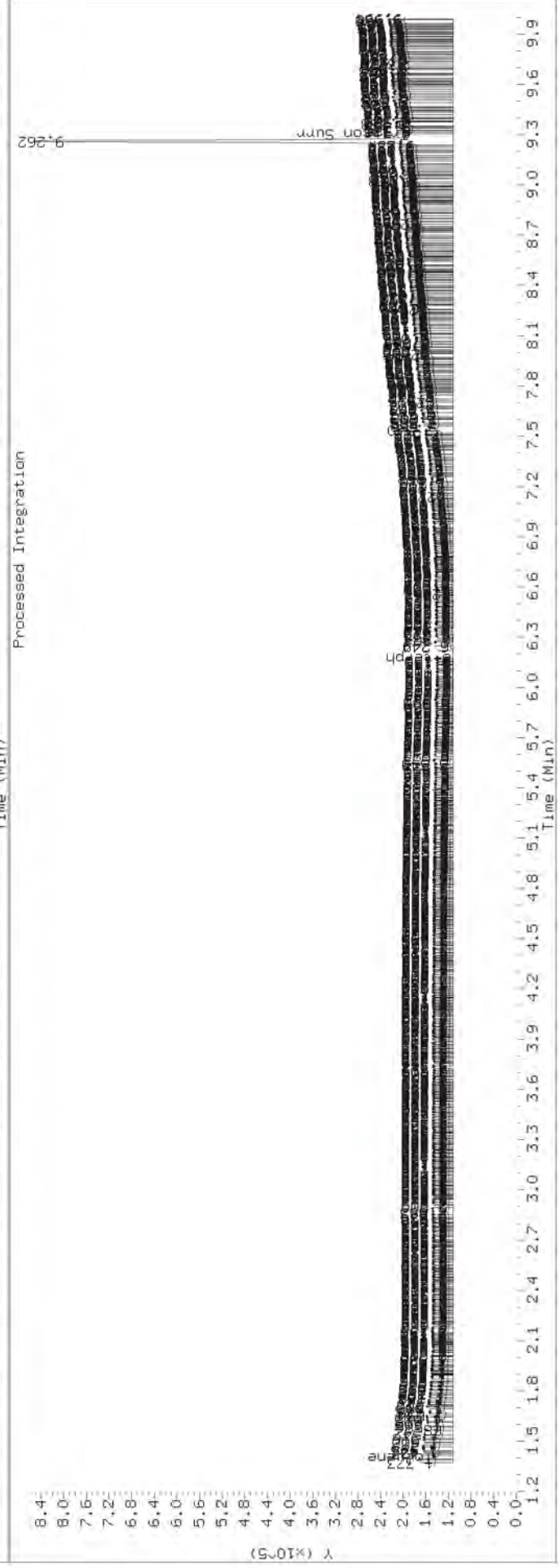
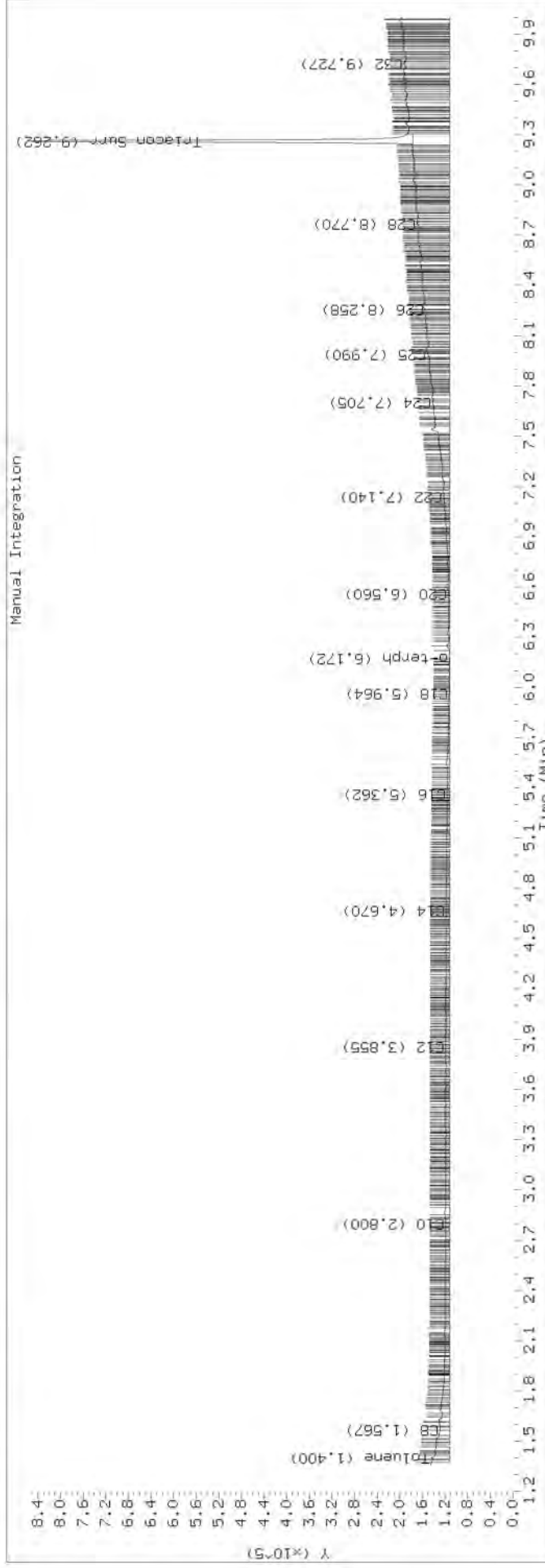
Datafile: FID4A, 20220106.b/422A0634.D SKA0028-CALD

HP6890 GC Data, FID1A.CH



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0634.D Injection: 06-JAN-2022 21:41
 Lab ID: SKA0028-CALD



Data File: \\target\share\chem2\fid4a,1\20220106_b\42240635.D

Date : 06-JAN-2022 22:01

Client ID:

Sample Info: SKR0028-CALE

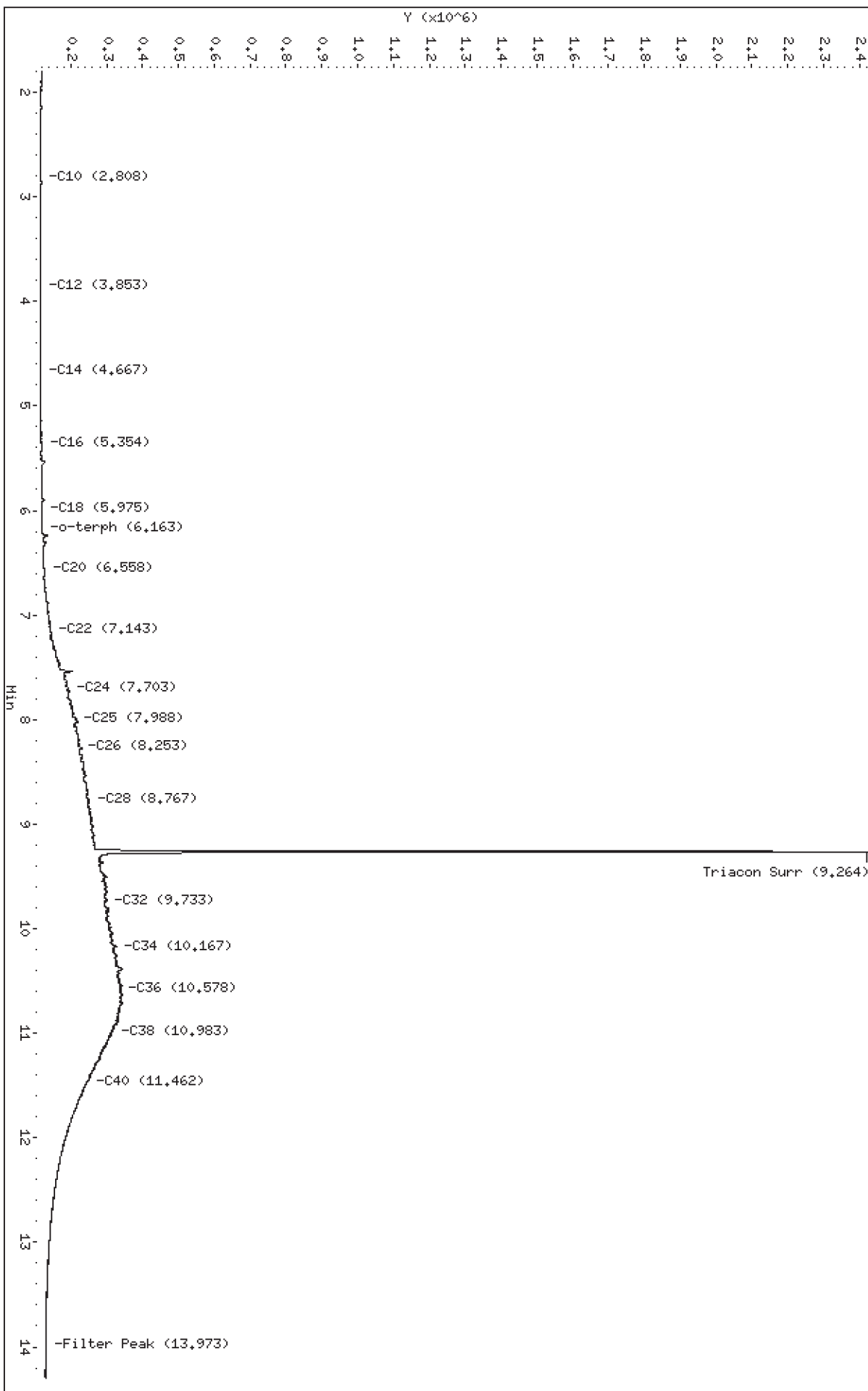
Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0635.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALE
Client ID:
Injection: 06-JAN-2022 22:01
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.577	0.010	8719	1728	WATPHD	(C12-C24)	2929726	20.1
C10	2.808	0.007	730	310	WATPHM	(C24-C38)	31748804	239.5
C12	3.853	-0.006	795	616	AK102	(C10-C25)	3824694	22.2
C14	4.667	-0.001	1277	1021	AK103	(C25-C36)	25645540	259.3
C16	5.354	-0.002	2070	507	OR.DIES	(C10-C28)	9965738	57.4
C18	5.975	0.003	3530	1724				
C20	6.558	-0.002	10355	11106				
C22	7.143	0.001	29007	34388				
C24	7.703	-0.005	77178	83297				
C25	7.988	0.002	98914	48889				
C26	8.253	-0.005	108103	48204				
C28	8.767	-0.009	136834	155381				
C32	9.733	0.004	184014	127408				
C34	10.167	-0.000	211495	52618				
Filter Peak	13.973	0.000	14730	5087				
C36	10.578	-0.003	222240	77716				
C38	10.983	-0.005	200745	129371				
C40	11.462	0.002	131317	97270				
o-terph	6.163	-0.004	4526	2639				
Triacon Surr	9.264	-0.025	2163427	1840060	NAS DIES	(C10-C24)	2959772	17.2

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

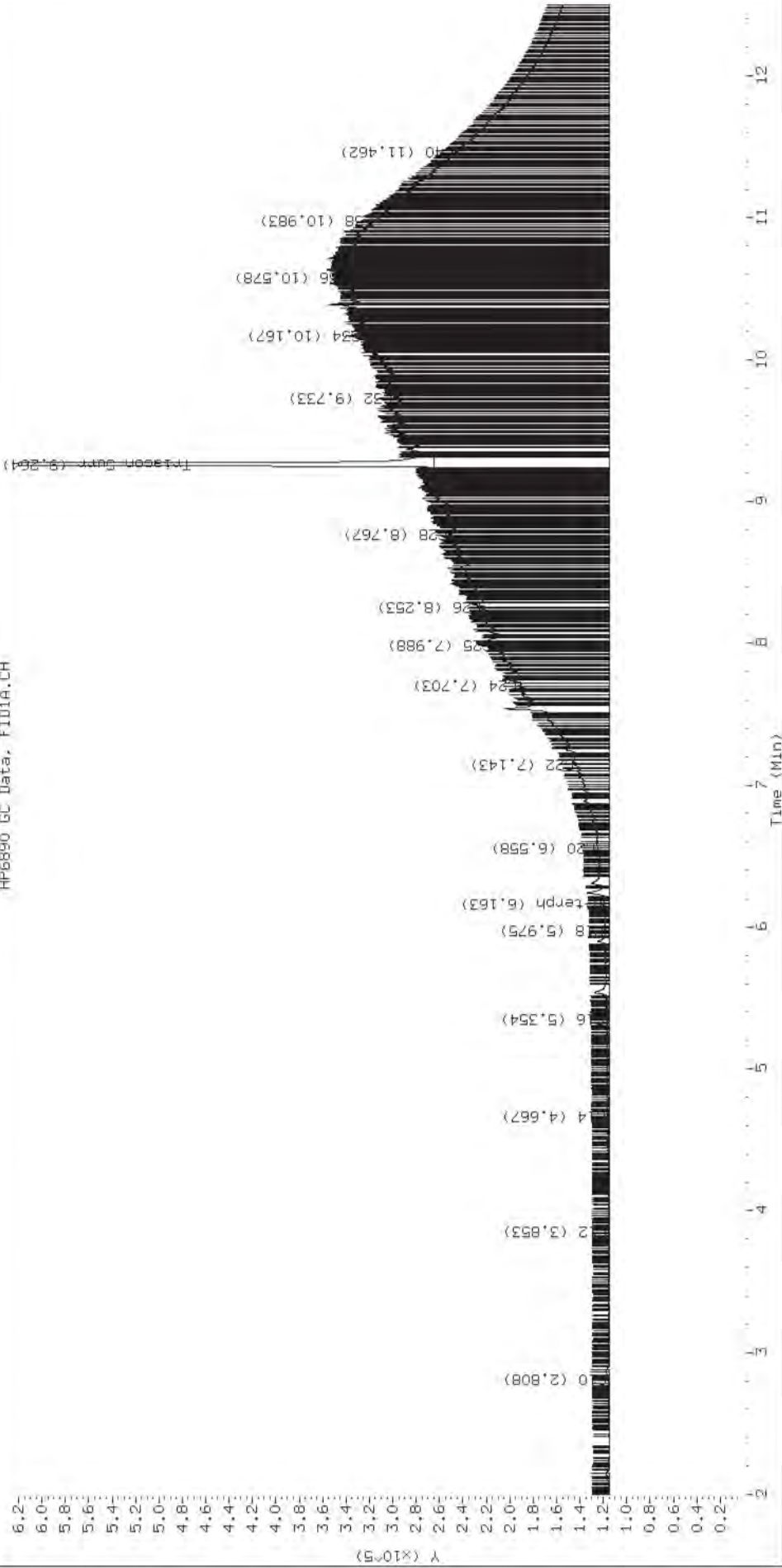
Surrogate	Area	Amount
o-Terphenyl	2639	0.0
Triacontane	1840060	10.6 M

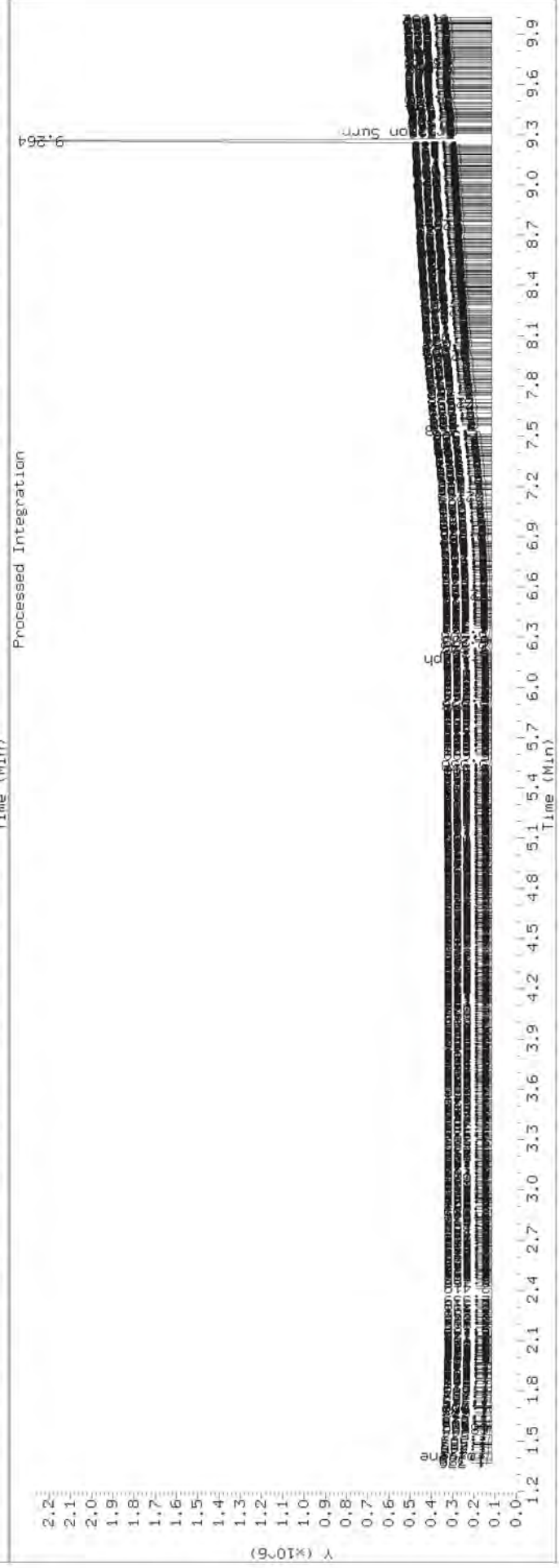
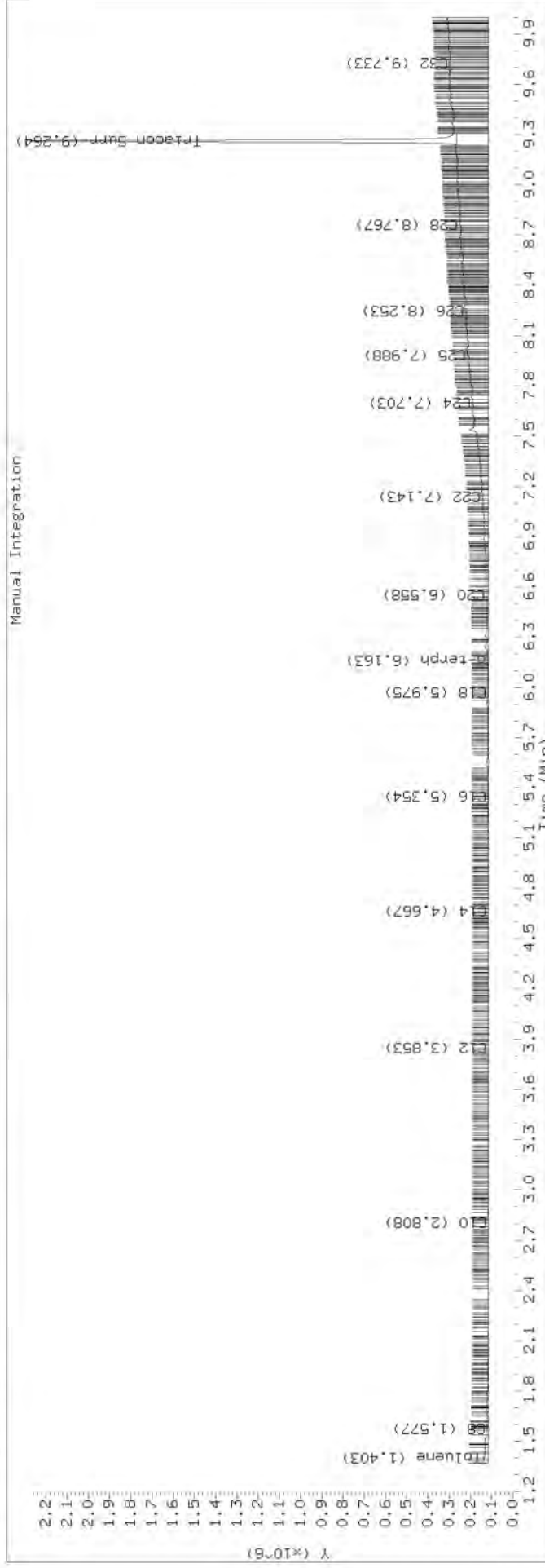
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

Datafile: FID4A, 20220106.b/422A0635.D SKA0028-CALE

HP6890 GC Data, FID1A.CH



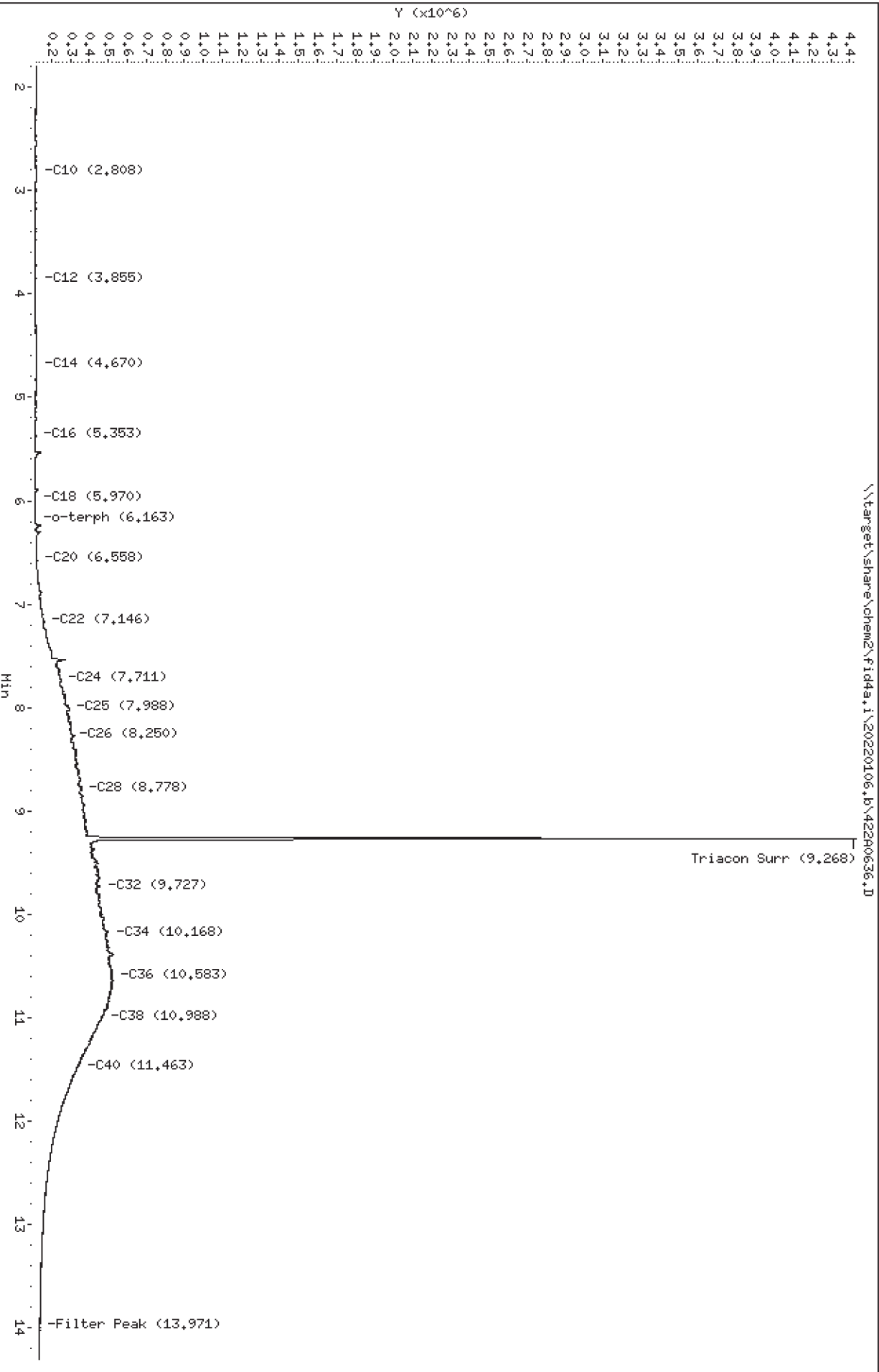


Data File: \\target\share\chem2\fid4a,1\20220106_b\42240636.D
Date : 06-JAN-2022 22:21
Client ID:
Sample Info: SKR0028-CALF

Instrument: fid4a,1

Column phase: RTX-1

Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0636.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALF
Client ID:
Injection: 06-JAN-2022 22:21
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.588	0.022	14154	9065	WATPHD	(C12-C24)	4637647	31.8
C10	2.808	0.006	3982	972	WATPHM	(C24-C38)	56653473	427.3
C12	3.855	-0.004	3786	3993	AK102	(C10-C25)	6441039	37.4
C14	4.670	0.002	4050	2404	AK103	(C25-C36)	45729418	462.3
C16	5.353	-0.004	3118	761	OR.DIES	(C10-C28)	17026229	98.0
C18	5.970	-0.002	794	203				
C20	6.558	-0.001	10478	9728				
C22	7.146	0.005	44045	65456				
C24	7.711	0.002	130061	38666				
C25	7.988	0.002	174343	60325				
C26	8.250	-0.007	189683	56662				
C28	8.778	0.003	240756	95966				
C32	9.727	-0.003	340946	614753				
C34	10.168	0.001	386820	624600				
Filter Peak	13.971	-0.002	25087	9932				
C36	10.583	0.002	402993	240743				
C38	10.988	-0.000	355088	281638				
C40	11.463	0.003	229950	158804				
o-terph	6.163	-0.005	2082	1126				
Triacon Surr	9.268	-0.022	4048608	3404066	NAS DIES	(C10-C24)	4860533	28.3

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

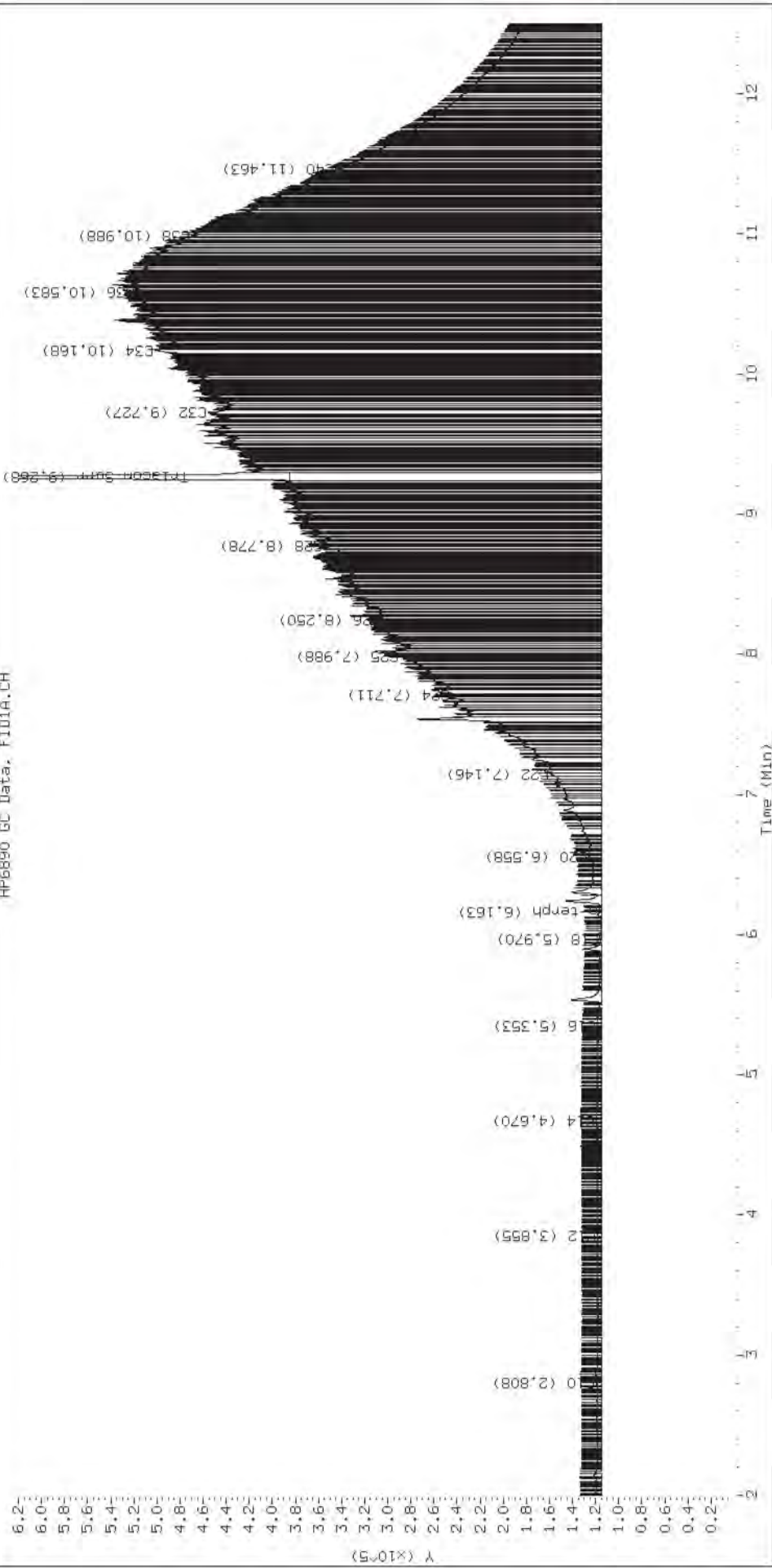
Surrogate	Area	Amount
o-Terphenyl	1126	0.0
Triacontane	3404066	19.5 M

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

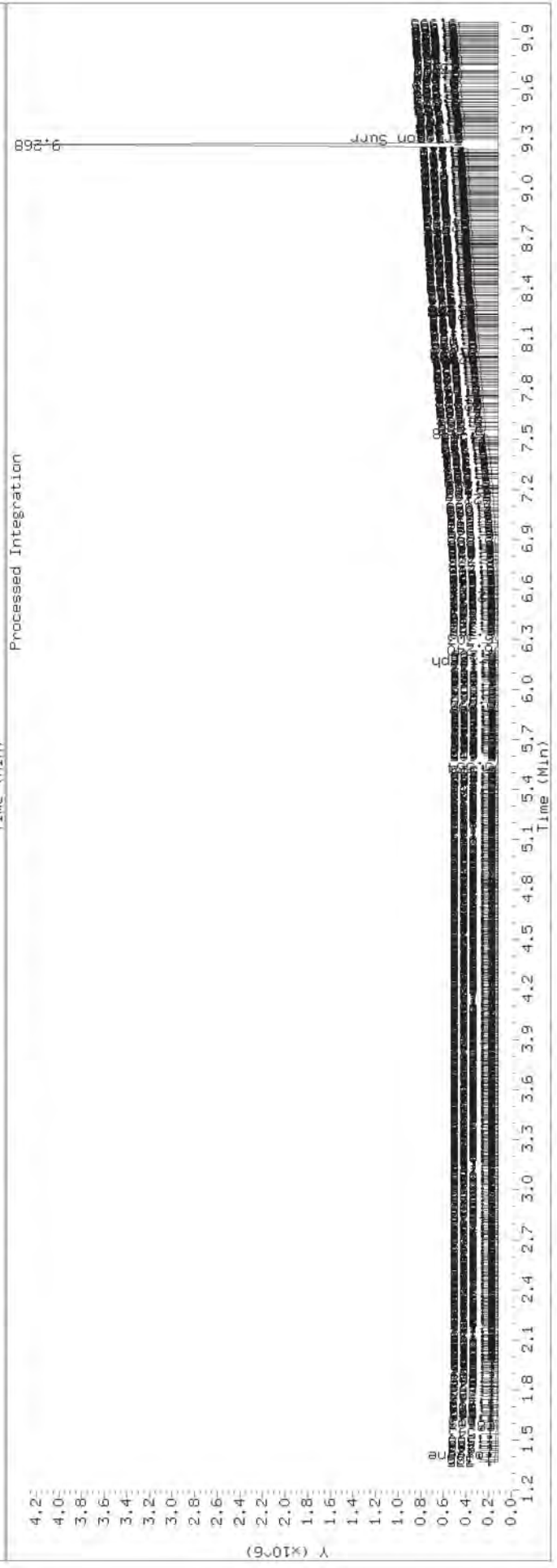
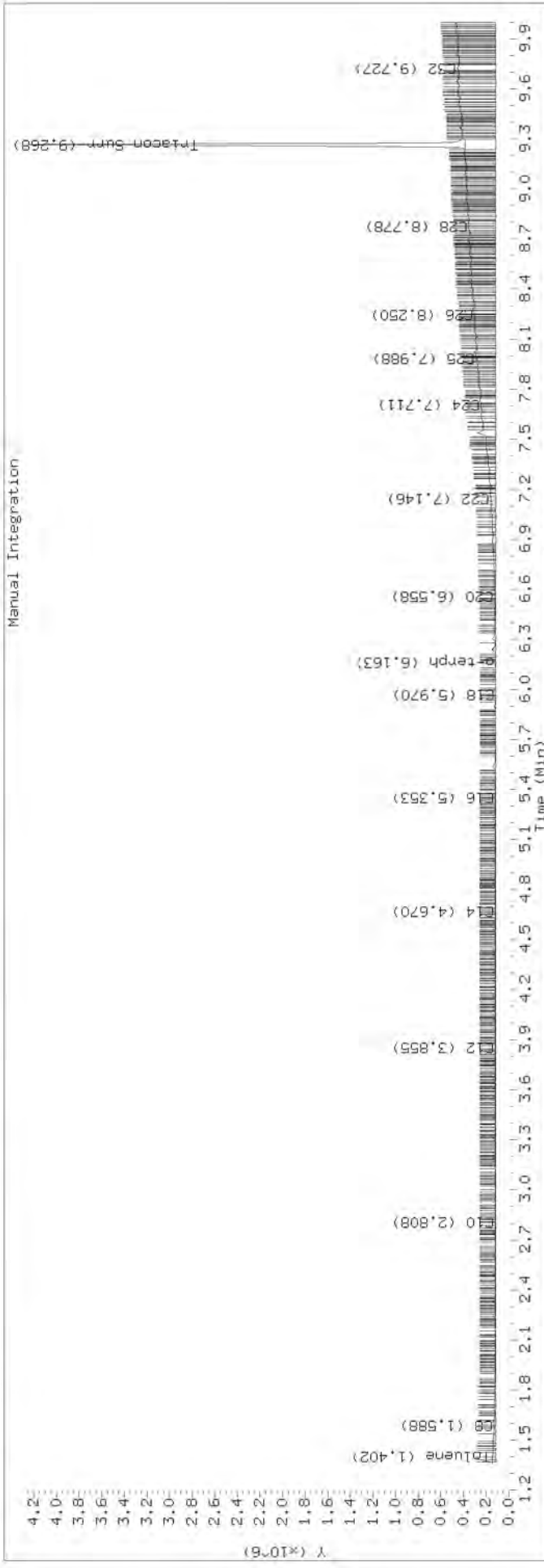
Datafile: FID4A, 20220106.b/422A0636.D SKA0028-CALF

HP6890 GC Data, FID1A.CH



TPH Manual Integrations Report

Datafile: FID4A, 20220106.b/422A0636.D Injection: 06-JAN-2022 22:21
 Lab ID:SKA0028-CALF



Data File: \\target\share\chem2\fid4a,1\20220106_b\42240637.D

Date : 06-JAN-2022 22:40

Client ID:

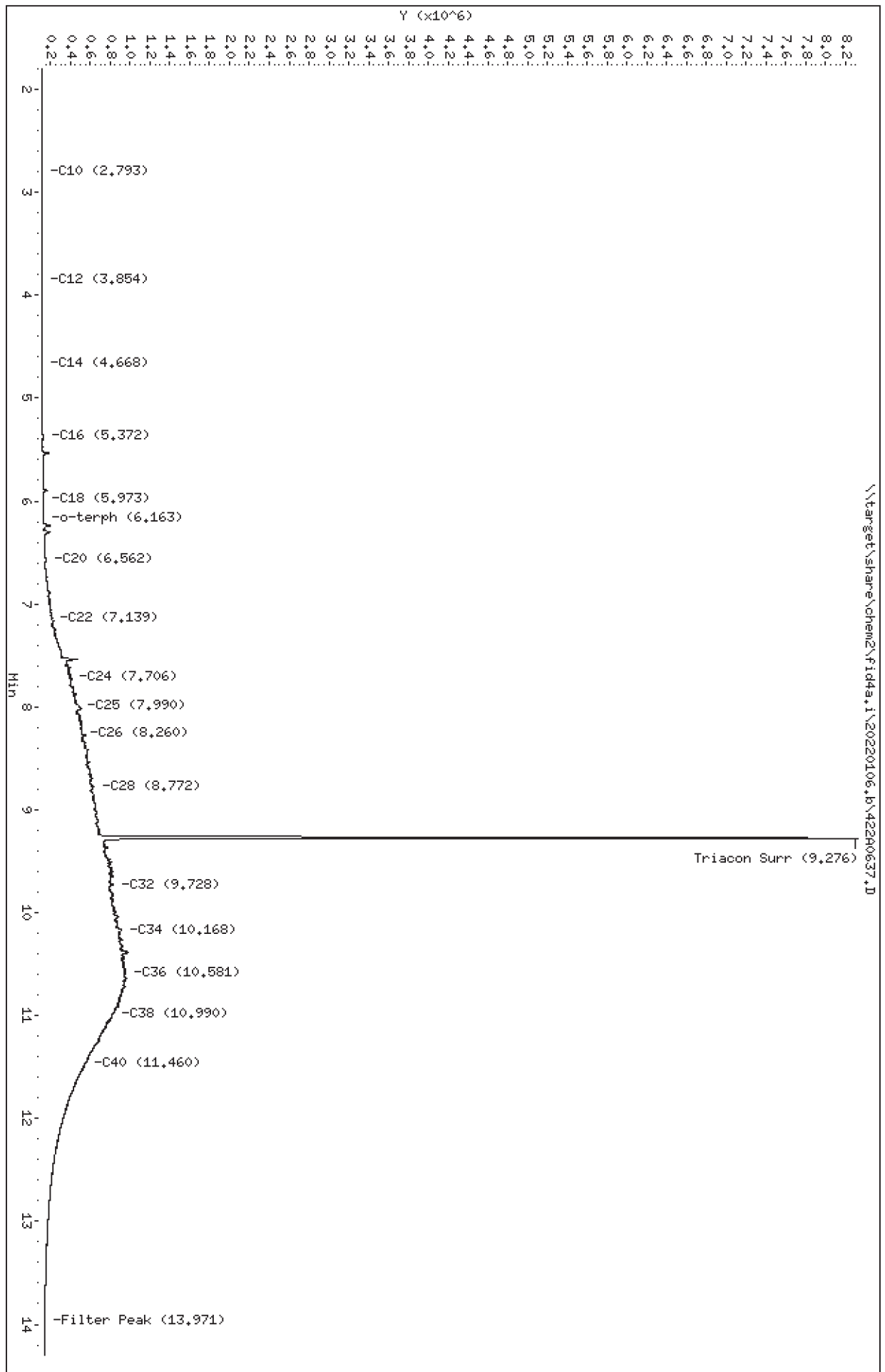
Sample Info: SKR0028-CALG

Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0637.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALG
Client ID:
Injection: 06-JAN-2022 22:40
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.564	-0.002	10251	8037	WATPHD	(C12-C24)	10669048	73.2
C10	2.793	-0.009	2989	2545	WATPHM	(C24-C38)	118912028	896.9
C12	3.854	-0.004	3129	3369	AK102	(C10-C25)	14106045	81.9
C14	4.668	-0.000	3674	726	AK103	(C25-C36)	96301748	973.6
C16	5.372	0.016	8563	21003	OR.DIES	(C10-C28)	36905977	212.4
C18	5.973	0.001	11679	12084				
C20	6.562	0.002	35663	24640				
C22	7.139	-0.002	103298	79290				
C24	7.706	-0.003	284447	224436				
C25	7.990	0.004	378257	277820				
C26	8.260	0.003	403438	120714				
C28	8.772	-0.004	516982	255803				
C32	9.728	-0.002	718410	459925				
C34	10.168	0.001	803384	239993				
Filter Peak	13.971	-0.002	27761	6898				
C36	10.581	-0.000	834404	331494				
C38	10.990	0.001	714197	317894				
C40	11.460	0.001	440399	153485				
o-terph	6.163	-0.004	14672	10827				
Triacon Surr	9.276	-0.014	7631149	7112816	NAS DIES	(C10-C24)	10776583	62.7

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

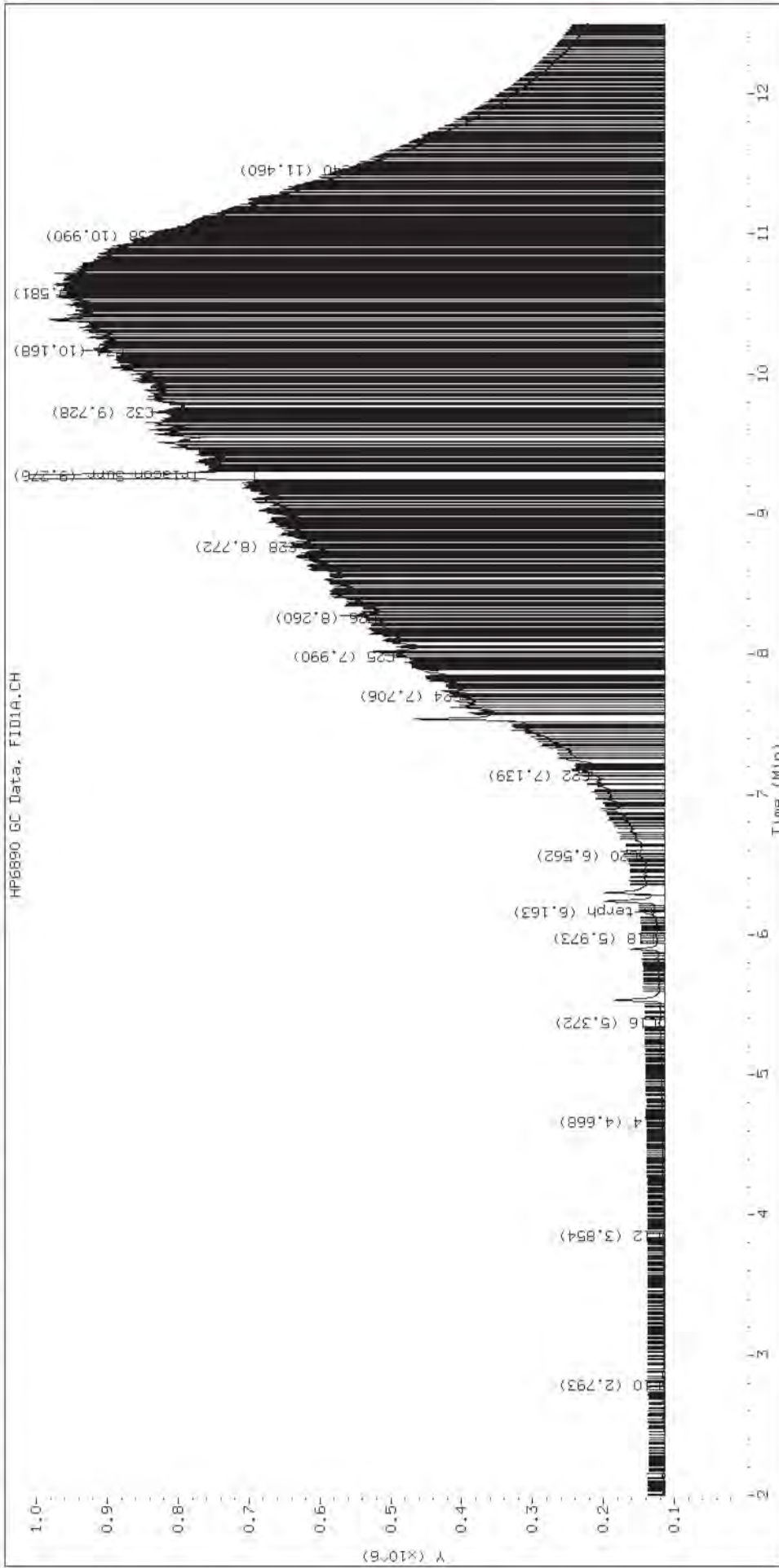
Surrogate	Area	Amount
o-Terphenyl	10827	0.1
Triacontane	7112816	40.8 M

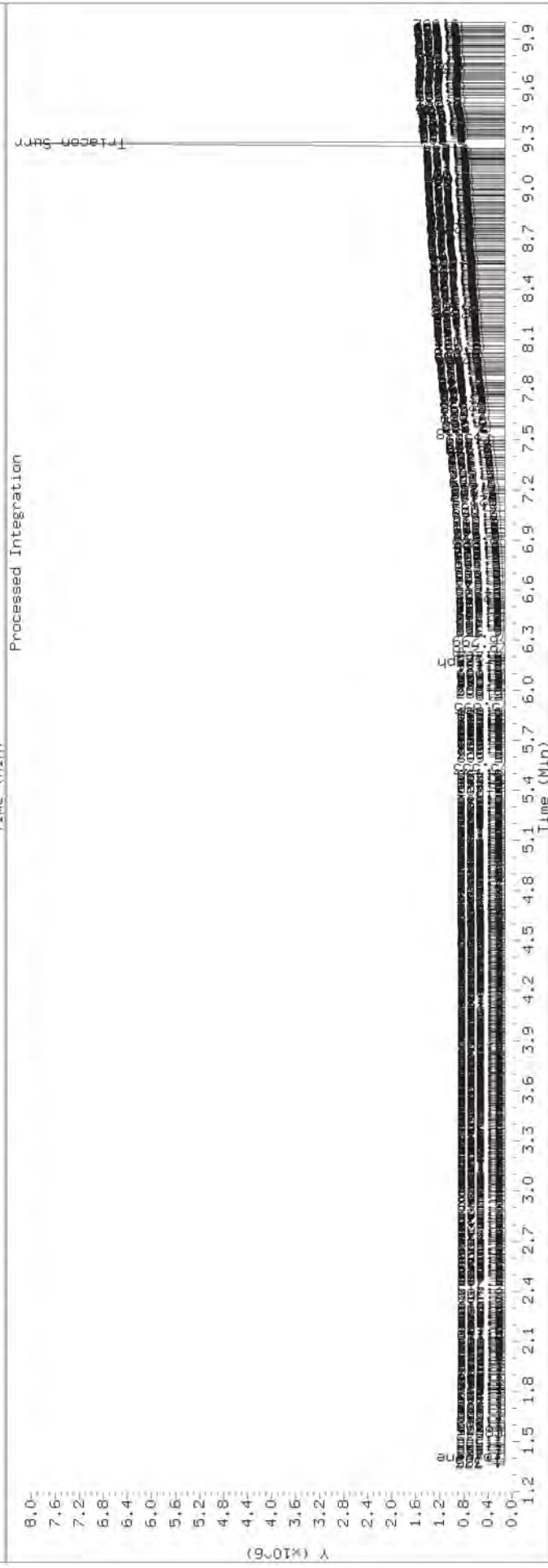
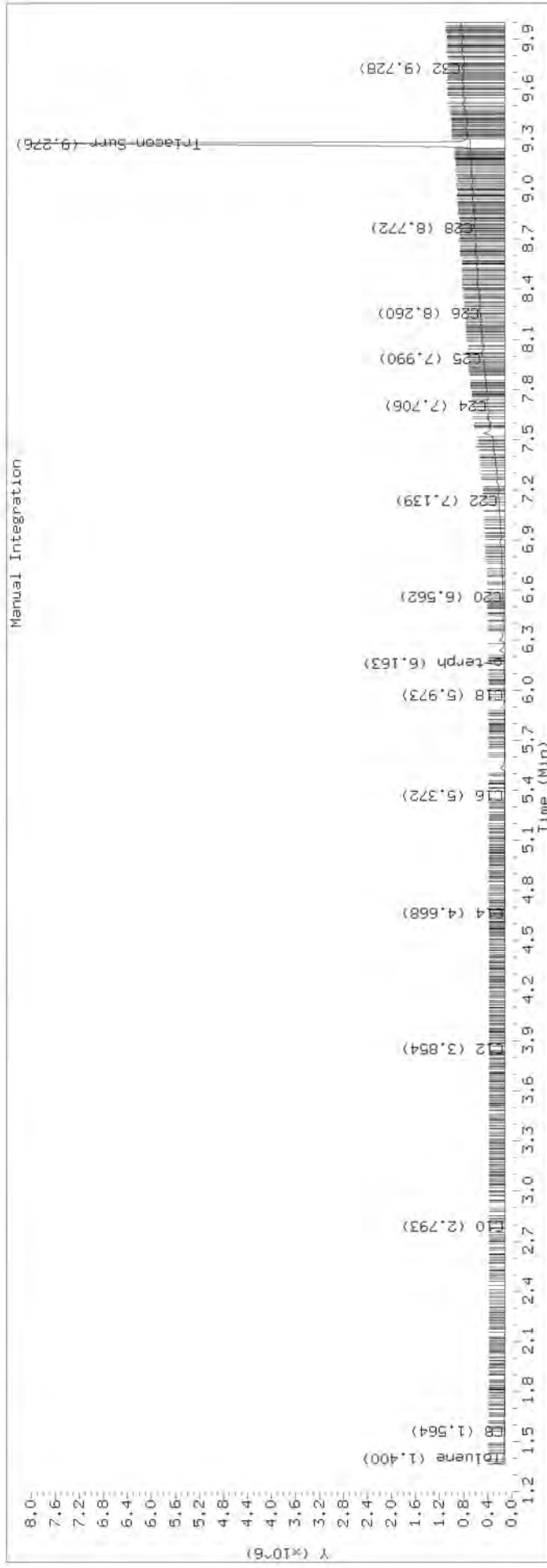
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

Datafile: FID4A, 20220106.b/422A0637.D SKA0028-CALG

HP6890 GC Data, FID1A.CH

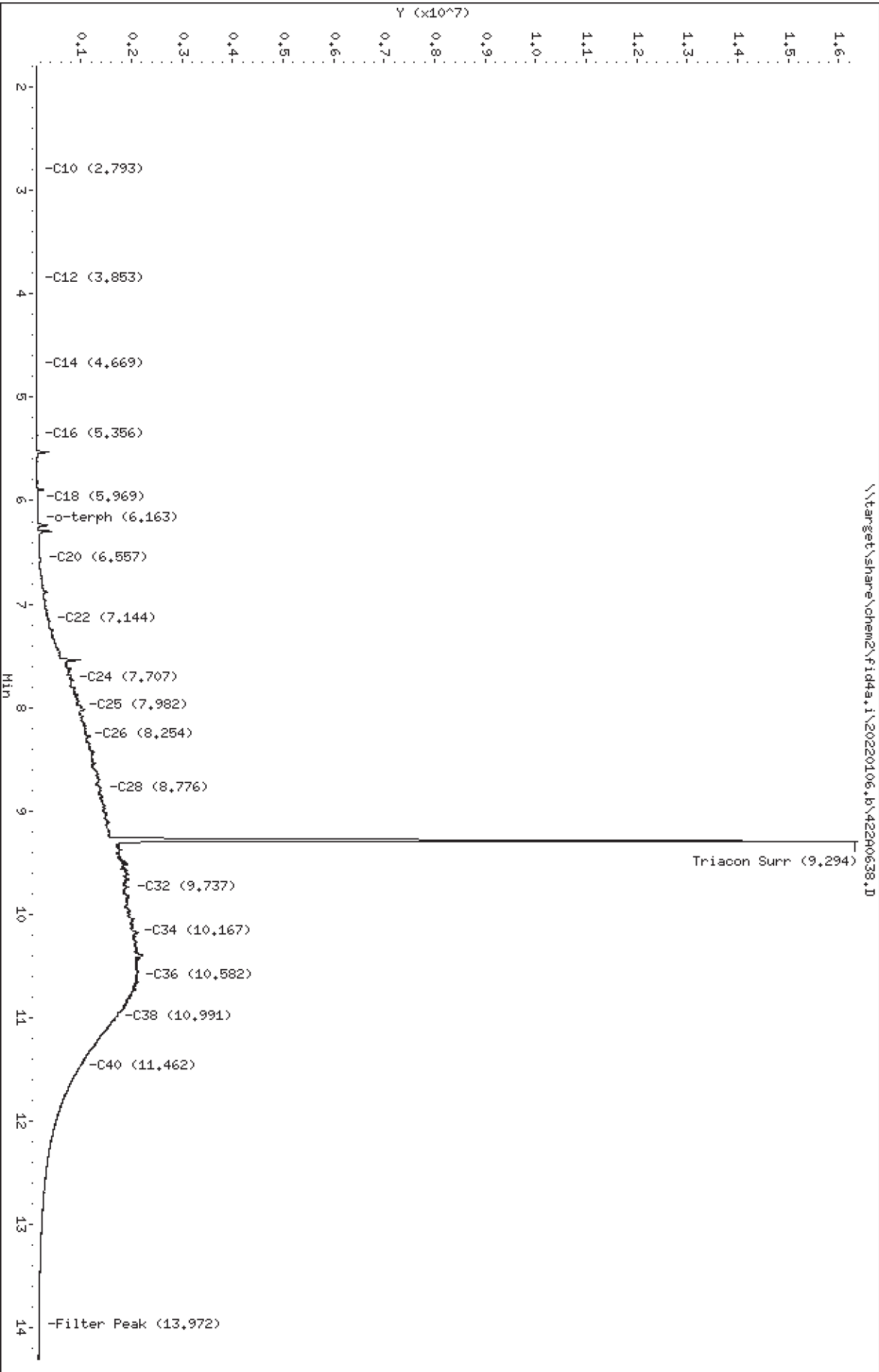




Data File: \\target\share\chem2\fid4a,1\20220106_b\42240638.D
Date: 06-JAN-2022 23:00
Client ID:
Sample Info: SKR0028-CALLH

Column phase: RTX-1

Instrument: fid4a,1
Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0638.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALH
Client ID:
Injection: 06-JAN-2022 23:00
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.550	-0.016	15003	25686	WATPHD	(C12-C24)	24361681	167.1
C10	2.793	-0.008	5806	4253	WATPHM	(C24-C38)	289674025	2184.9
C12	3.853	-0.006	4910	5292	AK102	(C10-C25)	32275990	187.4
C14	4.669	0.001	5973	2906	AK103	(C25-C36)	237850338	2404.7
C16	5.356	-0.001	13540	11261	OR.DIES	(C10-C28)	87712919	504.8
C18	5.969	-0.003	19481	20038				
C20	6.557	-0.003	74936	126475				
C22	7.144	0.003	236942	186098				
C24	7.707	-0.002	677766	469515				
C25	7.982	-0.005	863746	542351				
C26	8.254	-0.003	976816	340522				
C28	8.776	0.000	1285059	822854				
C32	9.737	0.008	1833990	3204593				
C34	10.167	-0.001	1975729	1066182				
Filter Peak	13.972	-0.001	47695	14242				
C36	10.582	0.001	1998401	1188859				
C38	10.991	0.002	1575341	1017575				
C40	11.462	0.002	881216	482236				
o-terph	6.163	-0.004	24484	15319				
Triacon Surr	9.294	0.004	14822727	18477737	NAS DIES	(C10-C24)	24461975	142.4

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

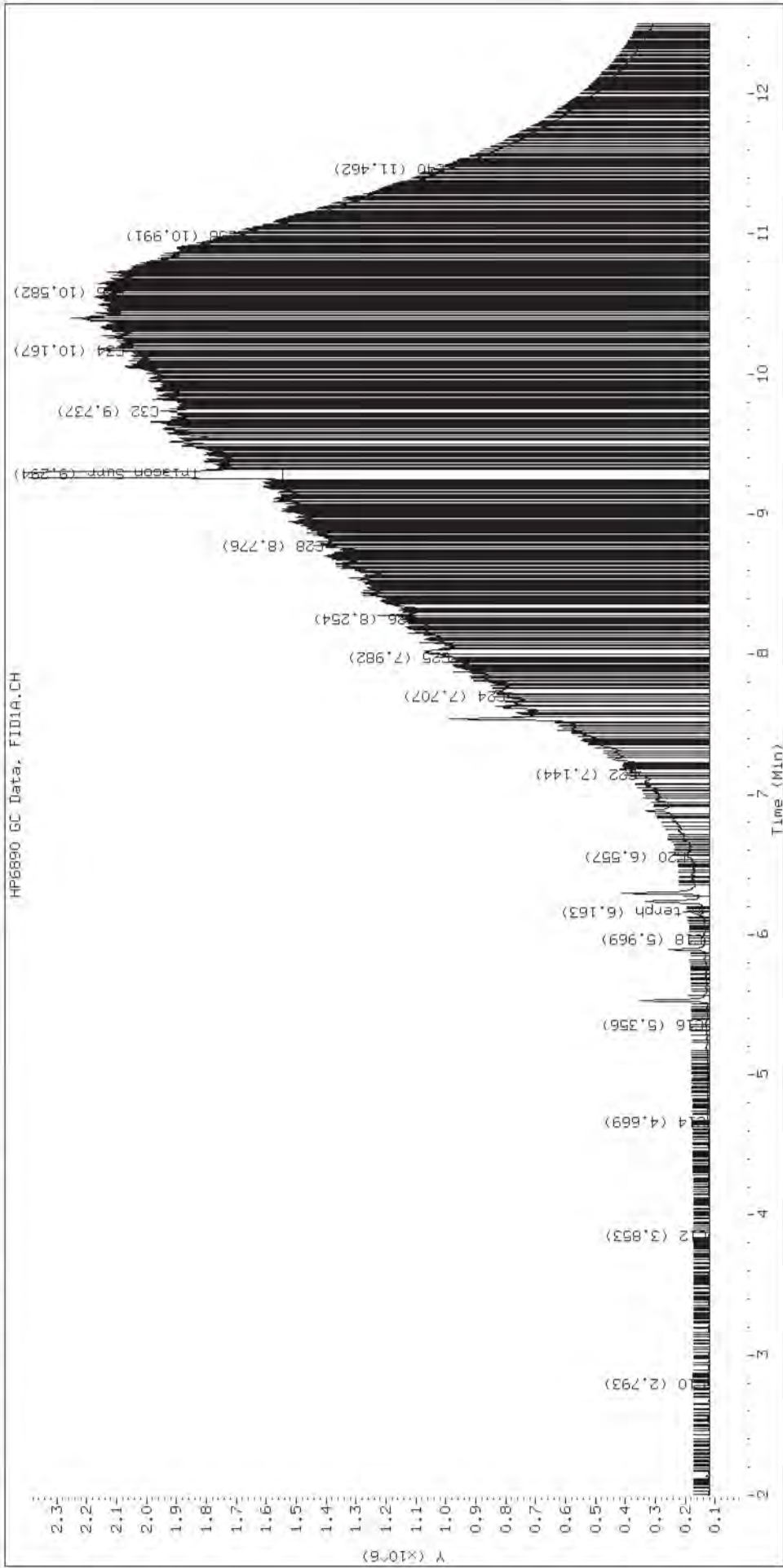
Surrogate	Area	Amount
o-Terphenyl	15319	0.1
Triacontane	18477737	106.1 M

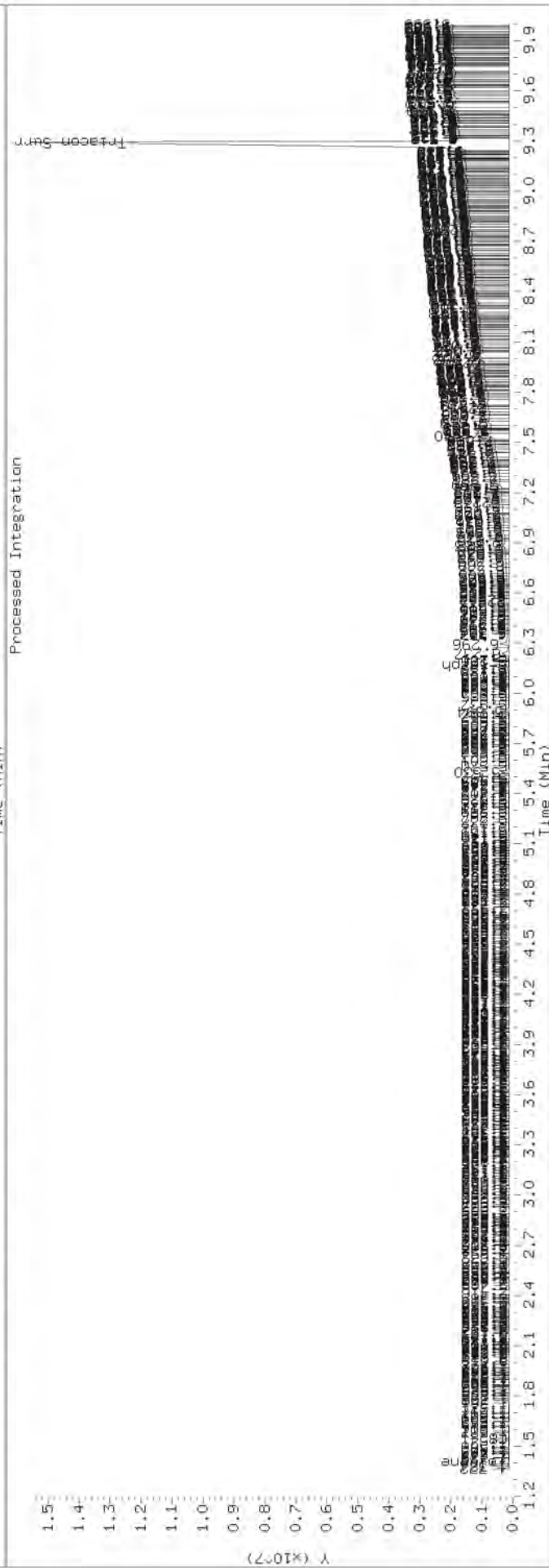
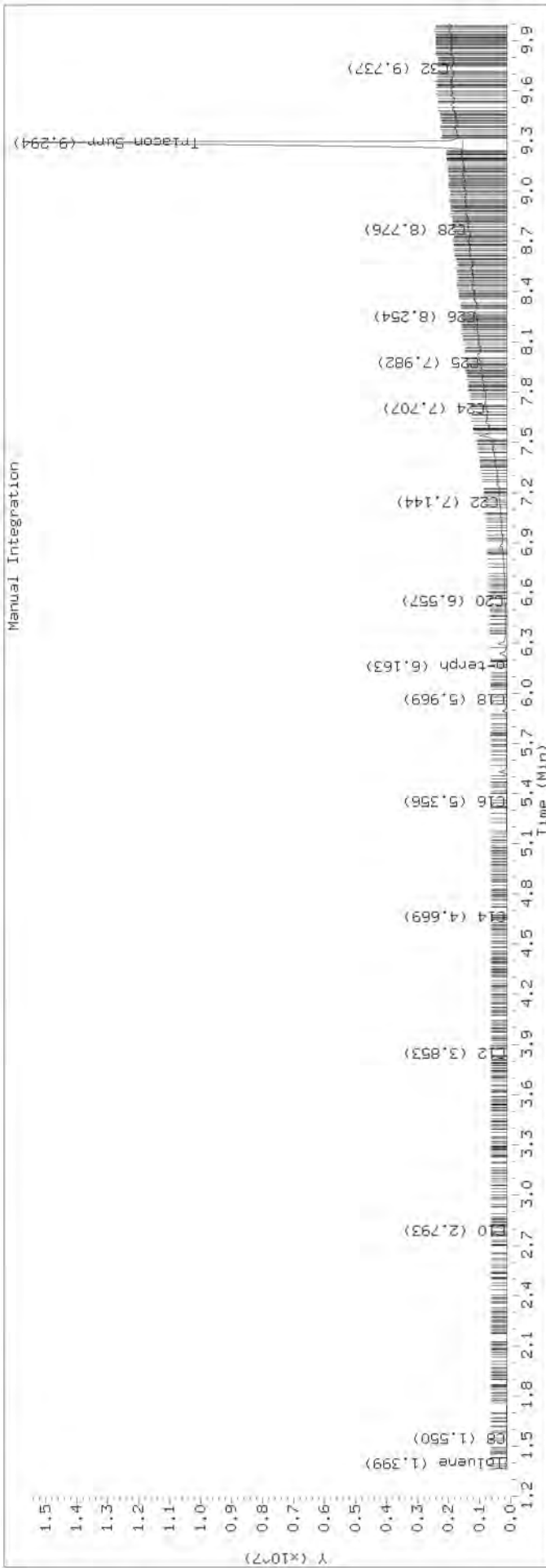
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

Datafile: FID4A, 20220106.b/422A0638.D SKA0028-CALH

HP6890 GC Data, FID1A.CH



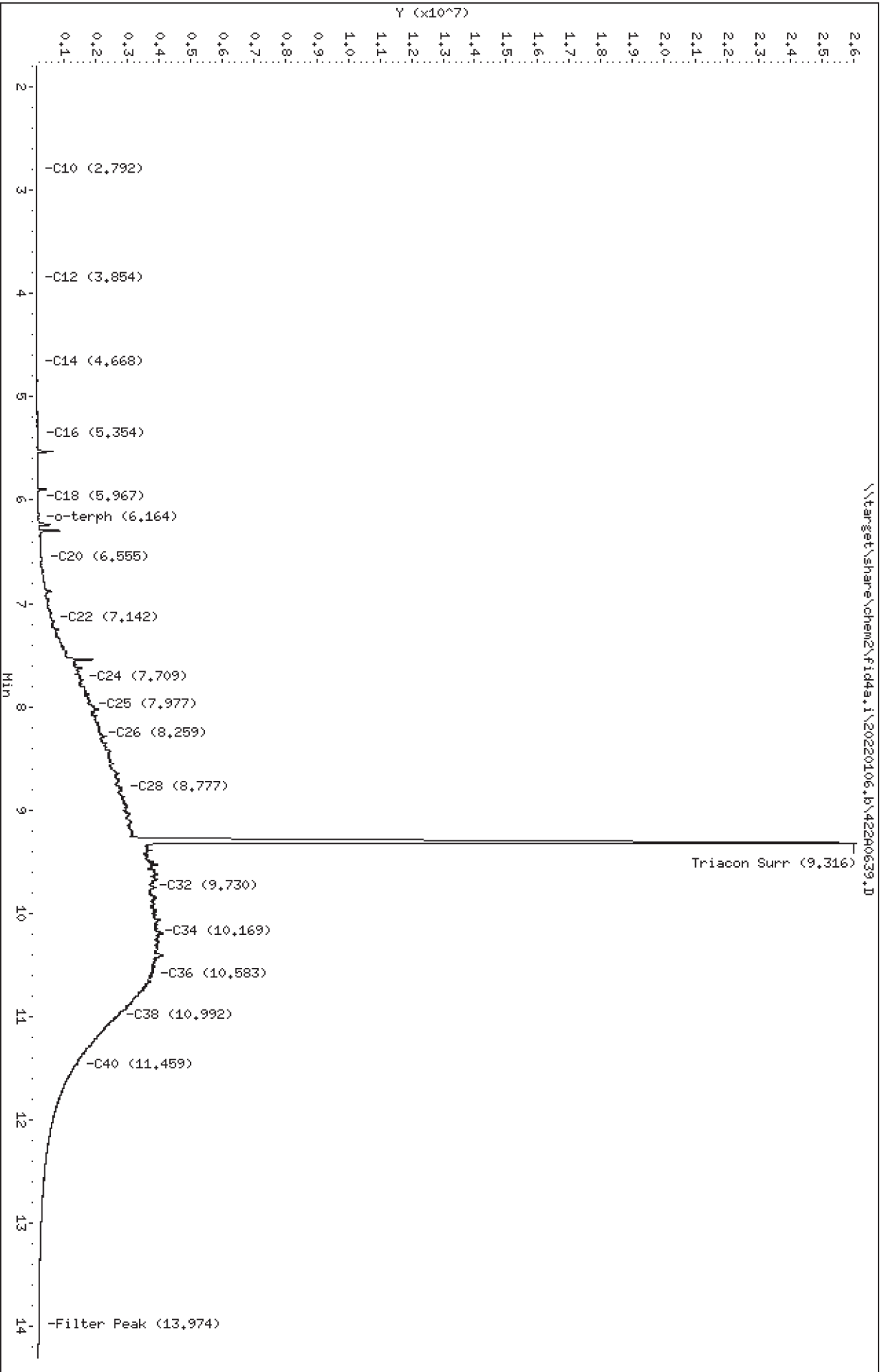


Data File: \\target\share\chem2\fid4a,1\20220106_b\42240639.D
Date: 06-JAN-2022 23:20
Client ID:
Sample Info: SKR0028-CALI

Instrument: fid4a,1

Column phase: RTX-1

Operator: TMC
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0639.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-CALI
Client ID:
Injection: 06-JAN-2022 23:20
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.565	-0.001	11725	6933	WATPHD	(C12-C24)	51665018	354.5
C10	2.792	-0.009	11749	9511	WATPHM	(C24-C38)	580345070	4377.3
C12	3.854	-0.005	12714	17010	AK102	(C10-C25)	67592612	392.4
C14	4.668	-0.000	16107	18663	AK103	(C25-C36)	492594942	4980.3
C16	5.354	-0.003	36148	36162	OR.DIES	(C10-C28)	183451140	1055.7
C18	5.967	-0.005	54500	58780				
C20	6.555	-0.004	168086	345395				
C22	7.142	0.001	496825	426514				
C24	7.709	-0.000	1380379	821529				
C25	7.977	-0.009	1684832	419304				
C26	8.259	0.002	2021095	604905				
C28	8.777	0.001	2684125	1195563				
C32	9.730	0.001	3627512	1086662				
C34	10.169	0.001	3804924	1327718				
Filter Peak	13.974	0.001	71473	21315				
C36	10.583	0.001	3665808	1277336				
C38	10.992	0.003	2584308	1280144				
C40	11.459	-0.000	1288075	1197871				
o-terph	6.164	-0.003	64420	50439				
Triacon Surr	9.316	0.026	22993117	39002952	NAS DIES	(C10-C24)	51959316	302.5

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

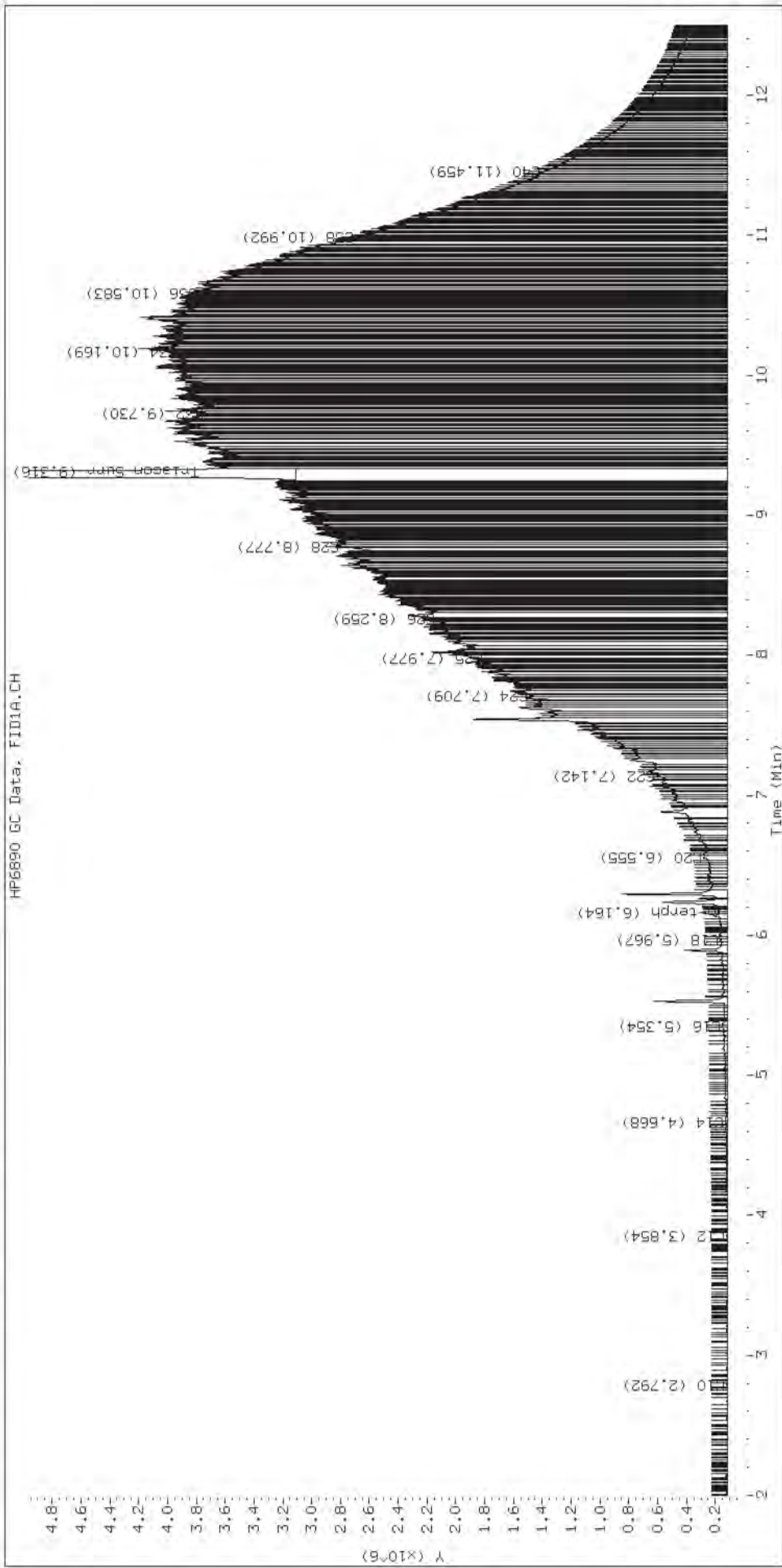
Surrogate	Area	Amount
o-Terphenyl	50439	0.3
Triacontane	39002952	223.9 M

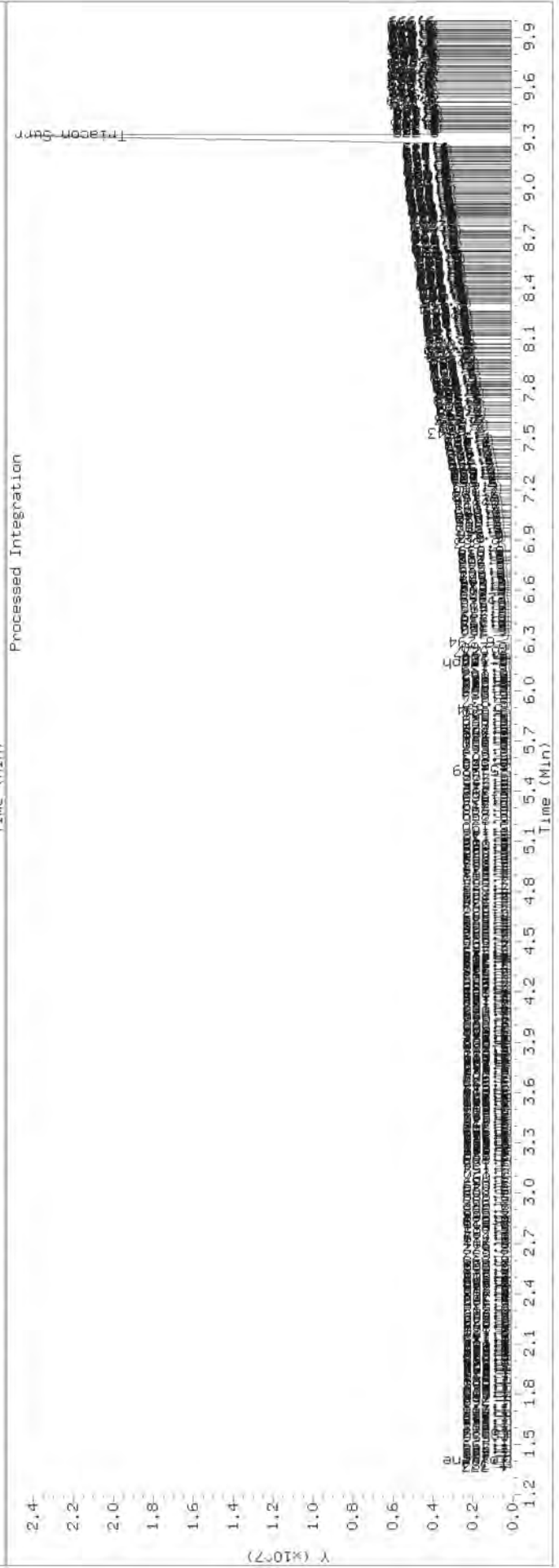
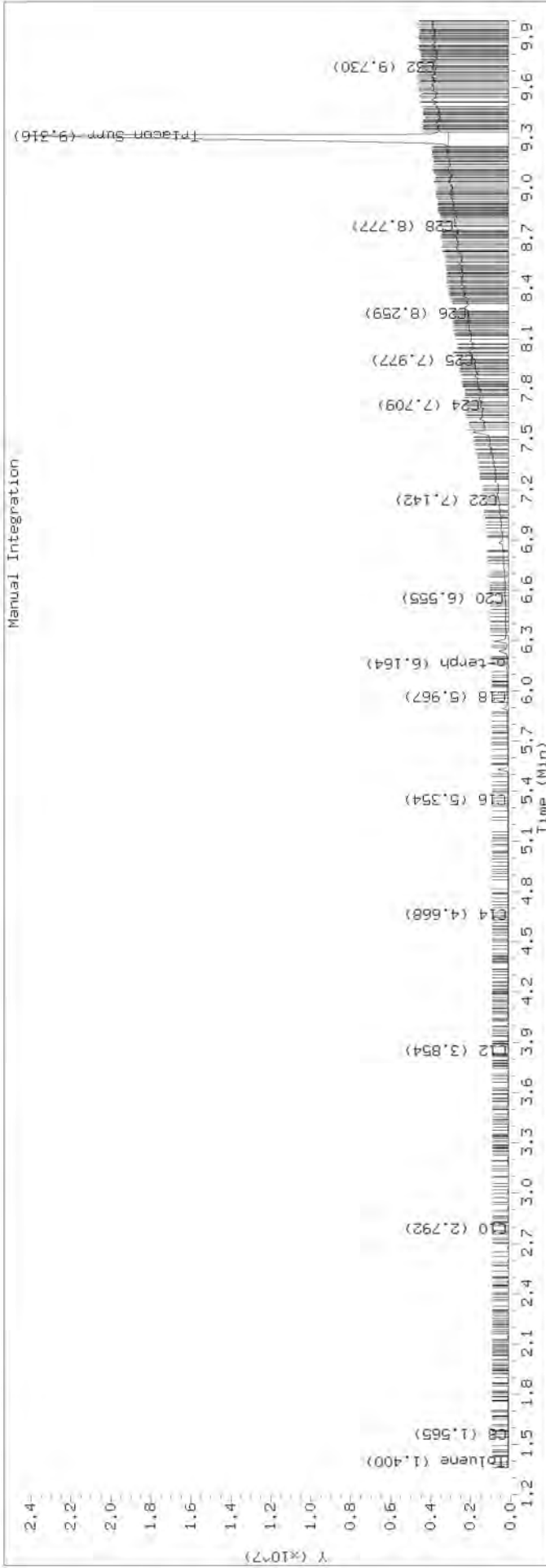
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

Datafile: FID4A, 20220106.b/422A0639.D SKA0028-CALI

HP6890 GC Data, FID1A.CH





Data File: \\target\share\chem2\fid4a,1\20220106,b\42240640.D

Date: 06-JAN-2022 23:40

Client ID:

Sample Info: SKR0028-SCV3

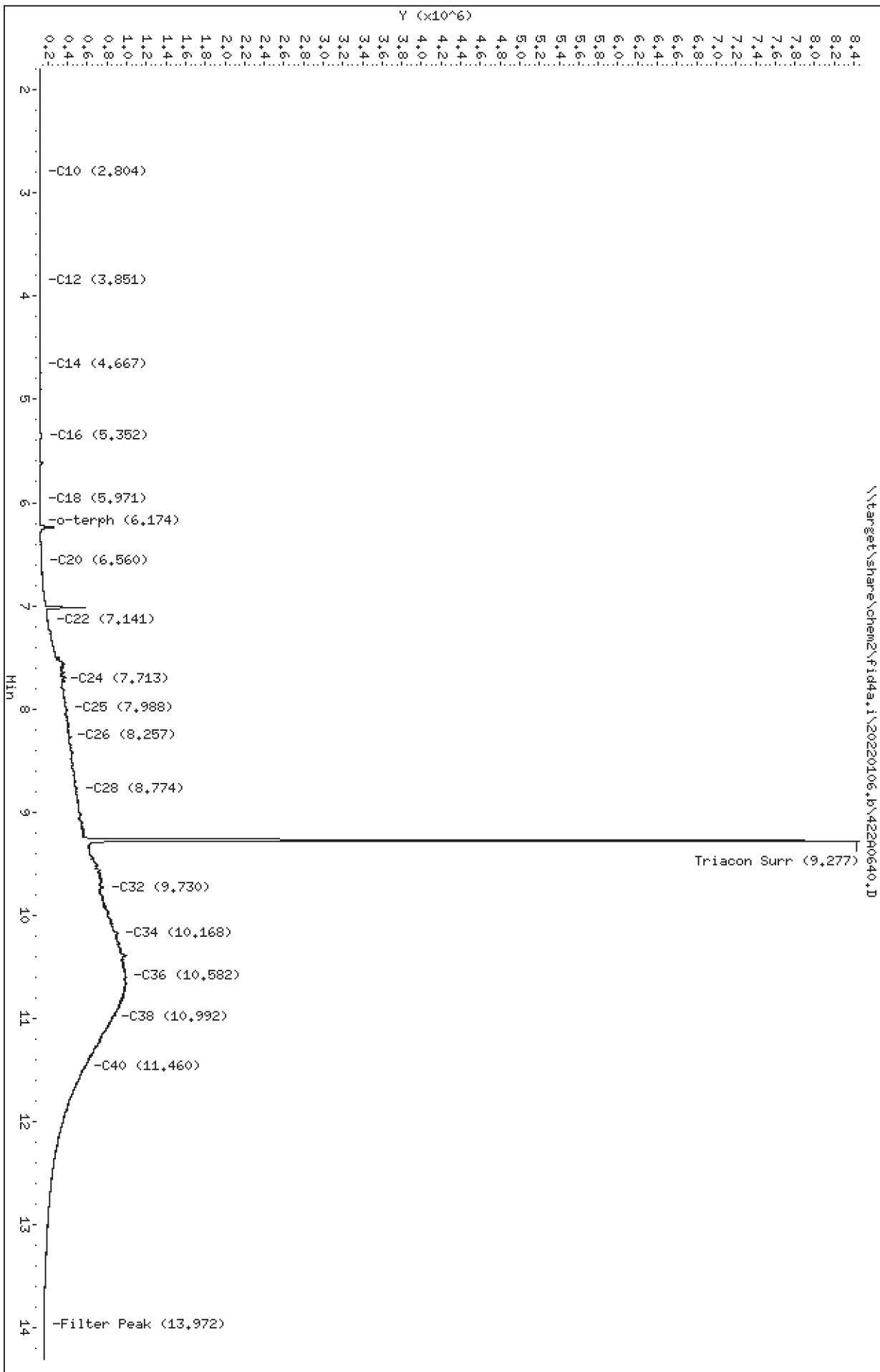
Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0640.D

ARI ID: SKA0028-SCV3

Method: 20220106.b\FID4TPH.m

Client ID:

Instrument: fid4a.i, TWC

Injection: 06-JAN-2022 23:40

Report Date: 01/07/2022

Dilution Factor: 1

Macro: 09-SEP-2019

RT Std: 422A0603.D

Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.565	-0.001	10365	9390	WATPHD	(C12-C24)	8234302	56.5
C10	2.804	0.003	643	178	WATPHM	(C24-C38)	105151101	793.1
C12	3.851	-0.008	703	353	AK102	(C10-C25)	10715206	62.2
C14	4.667	-0.001	2250	441	AK103	(C25-C36)	83158236	840.8
C16	5.352	-0.005	13074	30853	OR.DIES	(C10-C28)	27148572	156.2
C18	5.971	-0.001	2056	1103				
C20	6.560	0.000	19188	37853				
C22	7.141	-0.001	79210	165645				
C24	7.713	0.004	220193	54885				
C25	7.988	0.002	269226	184162				
C26	8.257	-0.001	291878	87241				
C28	8.774	-0.001	375908	167319				
C32	9.730	0.000	638880	408276				
C34	10.168	0.001	789241	274861				
Filter Peak	13.972	-0.001	40486	34016				
C36	10.582	0.000	869081	432796				
C38	10.992	0.003	735926	146906				
C40	11.460	0.000	461343	320017				
o-terph	6.174	0.007	2337	668				
Triacon Surr	9.277	-0.013	7897642	7651039	NAS DIES	(C10-C24)	8285201	48.2

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

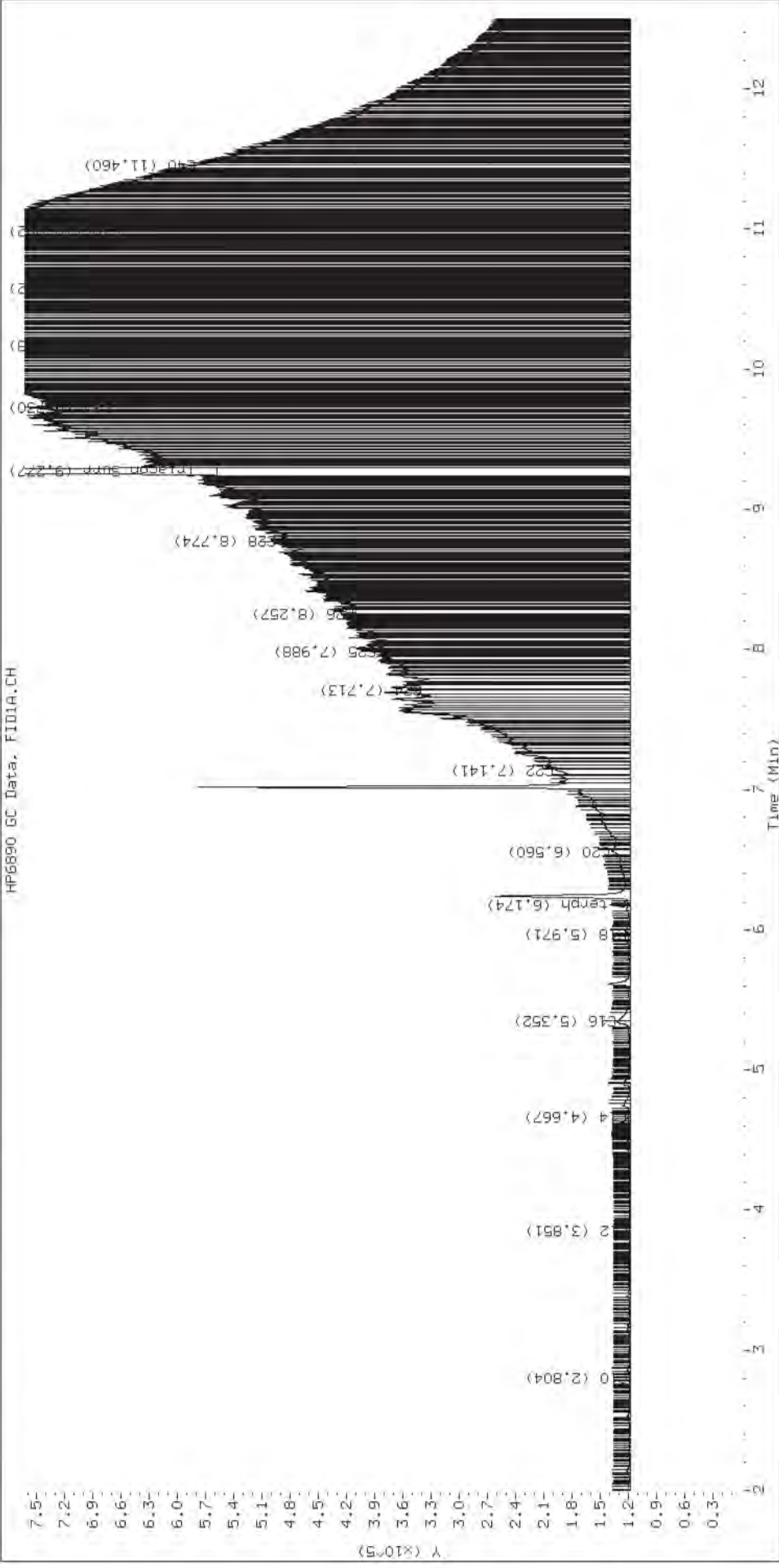
Surrogate	Area	Amount
o-Terphenyl	668	0.0
Triacontane	7651039	43.9 M

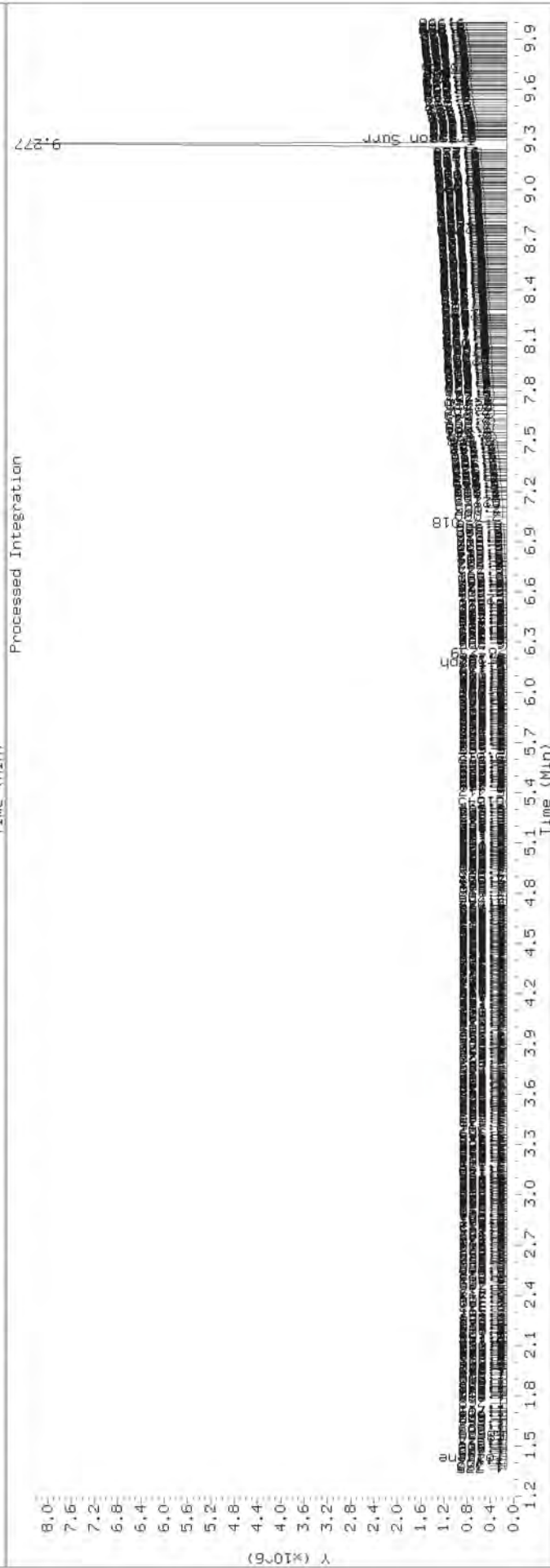
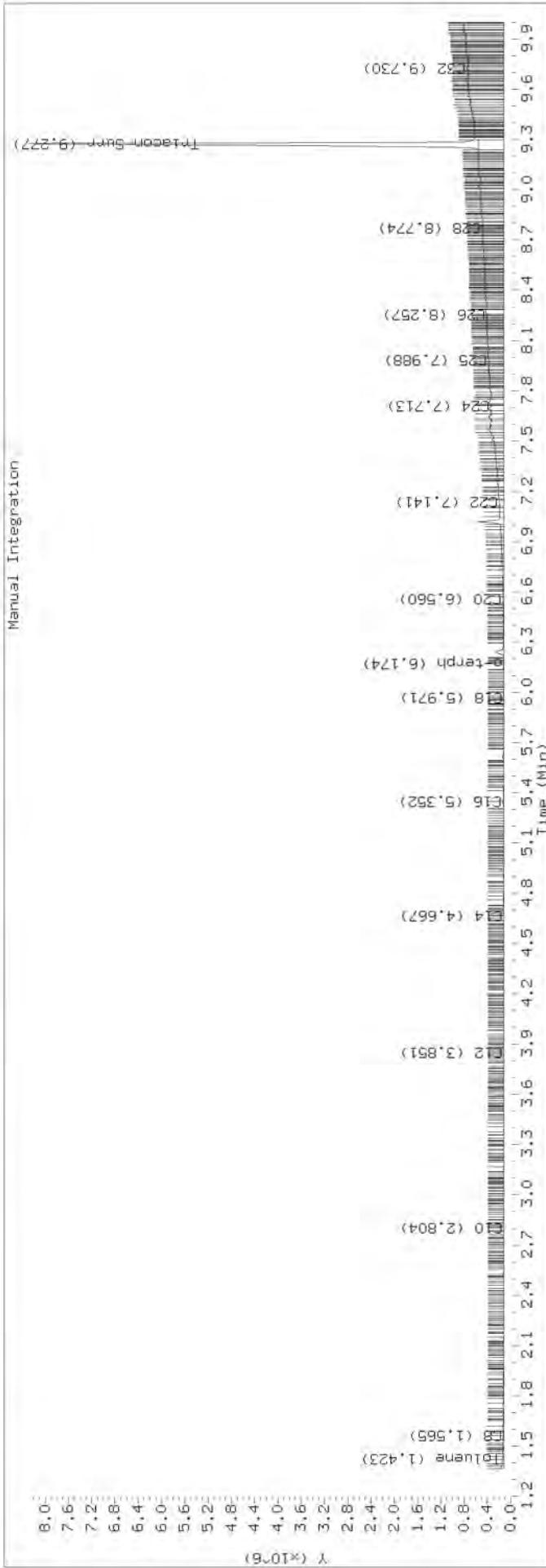
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022

Datafile: FID4A, 20220106.b/422A0640.D SKA0028-SCV3

HP6890 GC Data, FID1A.CH





MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220106.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 06-JAN-2022

Time Filename LabID ClientId DF Manually Integrated Compounds

0920	422A0601.D	RINSE		1	NO MANUAL INTEGRATION
0940	422A0602.D	RINSE		1	NO MANUAL INTEGRATION
0959	422A0603.D	SKA0028-IBL1		1	Toluene,
1019	422A0604.D	SKA0028-IBL2		1	NO MANUAL INTEGRATION
1039	422A0605.D	SKA0028-ICV1		1	o-terph,
1059	422A0606.D	SKA0028-ICV2		1	Triacon Surr,
1119	422A0607.D	BKA0056-BLKI		1	NO MANUAL INTEGRATION
1138	422A0608.D	BKA0056-BS1		1	o-terph,
1158	422A0609.D	BKA0056-MRL1		1	o-terph, Triacon Surr,
1218	422A0610.D	BKA0056-MRL2		1	o-terph, Triacon Surr,
1238	422A0611.D	22A0041-01		1	o-terph,
1258	422A0612.D	22A0041-01		10	Triacon Surr,
1317	422A0613.D	22A0041-02		10	NO MANUAL INTEGRATION
1337	422A0614.D	22A0041-01		20	o-terph, Triacon Surr,
1357	422A0615.D	22A0041-02		20	o-terph, Triacon Surr,
1417	422A0616.D	22A0041-03		20	o-terph, Triacon Surr,
1437	422A0617.D	22A0041-04		20	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220106.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
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1516	422A0619.D	SKA0028-CCV2	1	NO MANUAL INTEGRATION	
1704	422A0620.D	SKA0028-CAL1	1	o-terph,	
1724	422A0621.D	SKA0028-CAL2	1	o-terph,	
1744	422A0622.D	SKA0028-CAL3	1	o-terph,	
1804	422A0623.D	SKA0028-CAL4	1	o-terph,	
1823	422A0624.D	SKA0028-CAL5	1	o-terph,	
1843	422A0625.D	SKA0028-CAL6	1	o-terph,	
1903	422A0626.D	SKA0028-CAL7	1	Triacon Surr,	
1923	422A0627.D	SKA0028-CAL8	1	Triacon Surr,	
1943	422A0628.D	SKA0028-CAL9	1	Triacon Surr,	
2002	422A0629.D	SKA0028-CALA	1	Triacon Surr,	
2022	422A0630.D	SKA0028-CALB	1	Triacon Surr,	
2042	422A0631.D	SKA0028-CALC	1	Triacon Surr,	
2102	422A0632.D	SKA0028-SCV1	1	NO MANUAL INTEGRATION	
2121	422A0633.D	SKA0028-SCV2	1	NO MANUAL INTEGRATION	
2141	422A0634.D	SKA0028-CALD	1	Triacon Surr,	
2201	422A0635.D	SKA0028-CALE	1	Triacon Surr,	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220106.b

Time Filename LabID ClientId DF Manually Integrated Compounds

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2240 422A0637.D SKA0028-CALG 1 Triacon Surr,

2300 422A0638.D SKA0028-CALH 1 Triacon Surr,

2320 422A0639.D SKA0028-CALI 1 Triacon Surr,

2340 422A0640.D SKA0028-SCV3 1 Triacon Surr,

Security Status Report

Date: 07-Jan-2022 18:09

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ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

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Batch File: \\target\share\chem2\fid4a.i\20220106.b
Inst ID: fid4a.i

Motor Oil RT Study

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 422A0626 422A0627 422A0628 422A0629 422A0630 422A0631
INJ. DATE: 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022
INJ. TIME: 19:03 19:23 19:43 20:02 20:22 20:42

Table with 11 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include compounds like Toluene, Mineral Oil, C8, C10, C12, C14, C16, C18, o-terph, C20, C22, C24, C25, C26, C28.

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220106.b\FID4TPH.m
 Batch File: \\target\share\chem2\fid4a.i\20220106.b
 Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT1	RT WINDOW	AVG RT	STD DEV
15 Triacon Surr	9.260	9.263	9.269	9.277	9.296	9.319	9.290	9.240-9.340	9.281	0.022
16 C32	9.725	9.726	9.731	9.731	9.731	9.734	9.730	9.680-9.780	9.730	0.004
17 C34	10.169	10.164	10.171	10.167	10.171	10.170	10.167	10.117-10.217	10.169	0.003
18 Filter Peak	13.974	13.970	13.970	13.976	13.973	13.976	13.973	13.873-14.073	13.973	0.002
19 C36	10.580	10.578	10.577	10.587	10.580	10.579	10.581	10.531-10.631	10.580	0.004
20 C38	10.985	10.990	10.987	10.988	10.995	10.994	10.989	10.939-11.039	10.990	0.004
21 C40	11.462	11.459	11.459	11.461	11.461	11.457	11.460	11.410-11.510	11.460	0.002
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.899	0.849-0.949	+++++	+++++
37 ACreosote	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 Jet A	+++++	+++++	+++++	+++++	+++++	+++++	1.024	0.974-1.074	+++++	+++++
30 NW Moil	+++++	+++++	+++++	+++++	+++++	+++++	0.885	0.835-0.935	+++++	+++++
31 NW AK102	+++++	+++++	+++++	+++++	+++++	+++++	0.803	0.753-0.853	+++++	+++++
32 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.812	0.762-0.862	+++++	+++++
33 AK103	+++++	+++++	+++++	+++++	+++++	+++++	1.344	1.294-1.394	+++++	+++++
36 ABunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.985	0.935-1.035	+++++	+++++
39 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
40 NAS Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220106.b\FID4TPH.m
Batch File: \\target\share\chem2\fid4a.i\20220106.b
Inst ID: fid4a.i

AK103 RT Study

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 422A0634 422A0635 422A0636 422A0637 422A0638 422A0639
INJ. DATE: 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022 06-JAN-2022
INJ. TIME: 21:41 22:01 22:21 22:40 23:00 23:20

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	1.400	1.403	1.402	1.400	1.399	1.400	1.413	1.313-1.513	1.401	0.001
38 NewCpnd_31	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
35 Mineral Oil	+++++	+++++	+++++	+++++	+++++	+++++	1.015	0.965-1.065	+++++	+++++
41 Mineral Spirits	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
2 C8	1.567	1.577	1.588	1.564	1.550	1.565	1.566	1.466-1.666	1.569	0.013
3 C10	2.800	2.808	2.808	2.793	2.793	2.792	2.801	2.751-2.851	2.799	0.008
4 C12	3.855	3.853	3.855	3.854	3.853	3.854	3.859	3.809-3.909	3.854	0.001
5 C14	4.670	4.667	4.670	4.668	4.669	4.668	4.668	4.618-4.718	4.668	0.001
6 C16	5.362	5.354	5.353	5.372	5.356	5.354	5.356	5.306-5.406	5.358	0.007
7 C18	5.964	5.975	5.970	5.973	5.969	5.967	5.972	5.922-6.022	5.970	0.004
8 o-terph	6.172	6.163	6.163	6.163	6.163	6.164	6.167	6.117-6.217	6.165	0.004
9 C20	6.560	6.558	6.558	6.562	6.557	6.555	6.560	6.510-6.610	6.558	0.002
10 C22	7.140	7.143	7.146	7.139	7.144	7.142	7.141	7.091-7.191	7.142	0.002
11 C24	7.705	7.703	7.711	7.706	7.707	7.709	7.709	7.659-7.759	7.707	0.003
12 C25	7.990	7.988	7.988	7.990	7.982	7.977	7.986	7.936-8.036	7.986	0.005
13 C26	8.258	8.253	8.250	8.260	8.254	8.259	8.257	8.207-8.307	8.256	0.004
14 C28	8.770	8.767	8.778	8.772	8.776	8.777	8.775	8.725-8.825	8.773	0.004

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220106.b\FID4TPH.m
 Batch File: \\target\share\chem2\fid4a.i\20220106.b
 Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT1	RT WINDOW	AVG RT	STD DEV
15 Triacon Surr	9.262	9.264	9.268	9.276	9.294	9.316	9.290	9.240-9.340	9.280	0.021
16 C32	9.727	9.733	9.727	9.728	9.737	9.730	9.730	9.680-9.780	9.730	0.004
17 C34	10.166	10.167	10.168	10.168	10.167	10.169	10.167	10.117-10.217	10.168	0.001
18 Filter Peak	13.971	13.973	13.971	13.971	13.972	13.974	13.973	13.873-14.073	13.972	0.001
19 C36	10.585	10.578	10.583	10.581	10.582	10.583	10.581	10.531-10.631	10.582	0.002
20 C38	10.986	10.983	10.988	10.990	10.991	10.992	10.989	10.939-11.039	10.988	0.003
21 C40	11.466	11.462	11.463	11.460	11.462	11.459	11.460	11.410-11.510	11.462	0.002
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.899	0.849-0.949	+++++	+++++
37 ACreosote	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 Jet A	+++++	+++++	+++++	+++++	+++++	+++++	1.024	0.974-1.074	+++++	+++++
30 NW Moil	+++++	+++++	+++++	+++++	+++++	+++++	0.885	0.835-0.935	+++++	+++++
31 NW AK102	+++++	+++++	+++++	+++++	+++++	+++++	0.803	0.753-0.853	+++++	+++++
32 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.812	0.762-0.862	+++++	+++++
33 AK103	+++++	+++++	+++++	+++++	+++++	+++++	1.344	1.294-1.394	+++++	+++++
36 ABunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.985	0.935-1.035	+++++	+++++
39 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
40 NAS Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++

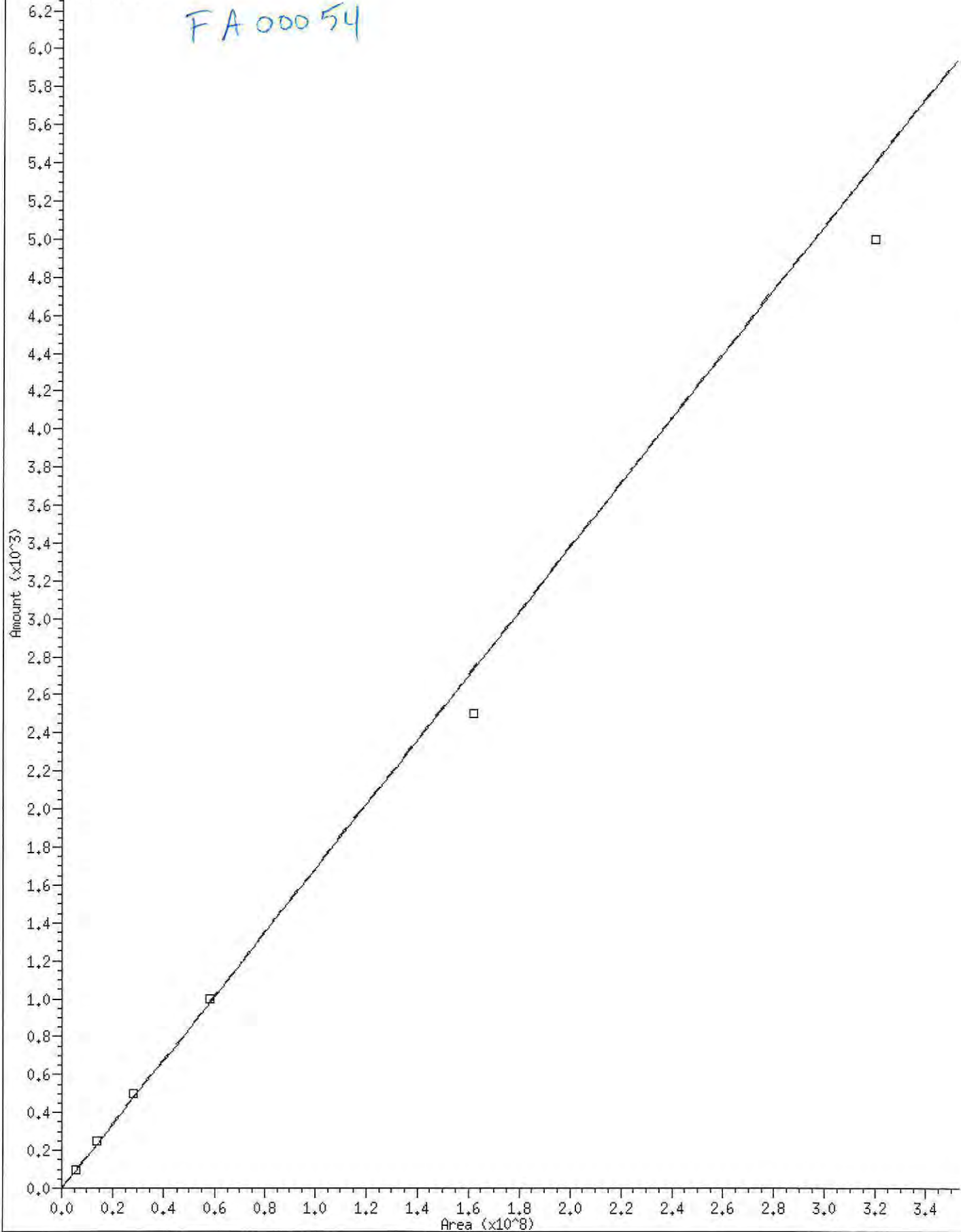
A/S 32 Bunker C

Curve Type: Averaged By-Response

Amt = Rsp/59438.63

%RSD: 6.872

FA 000 54





Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION
NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FA00013

Laboratory ID: SKA0028-SCV1

Sequence: SKA0028

Sequence Name: DIESEL SCV

Standard ID: J009677

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Diesel Range Organics (C12-C24)	500.00	561	12.3	30.00

* Indicates values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220106_b\42240632.D

Date: 06-JAN-2022 21:02

Client ID:

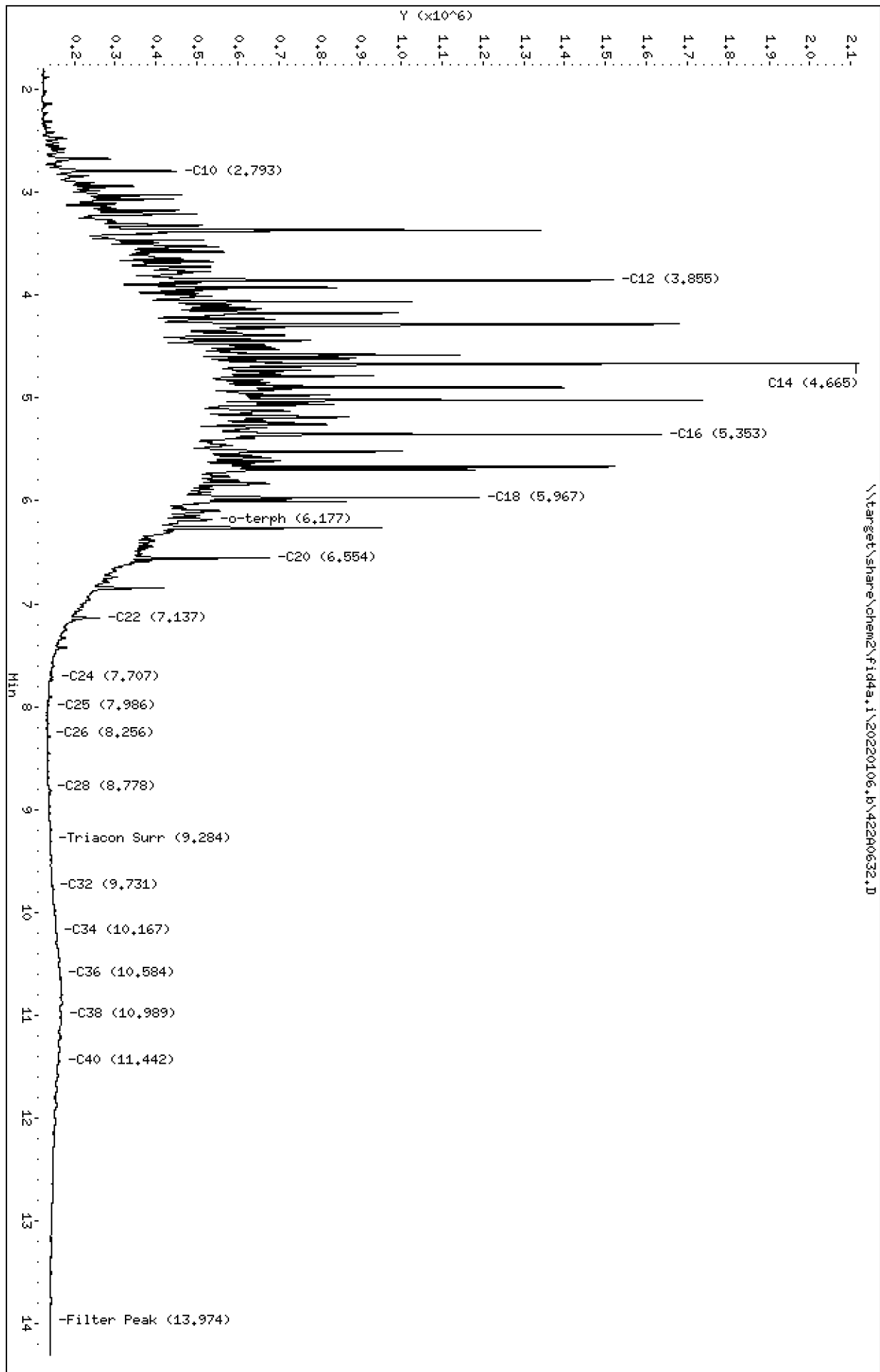
Sample Info: SKR0028-SCV1

Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0632.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 01/07/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-DEC-2022 M.Oil:06-DEC-2022

ARI ID: SKA0028-SCV1
Client ID:
Injection: 06-JAN-2022 21:02
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

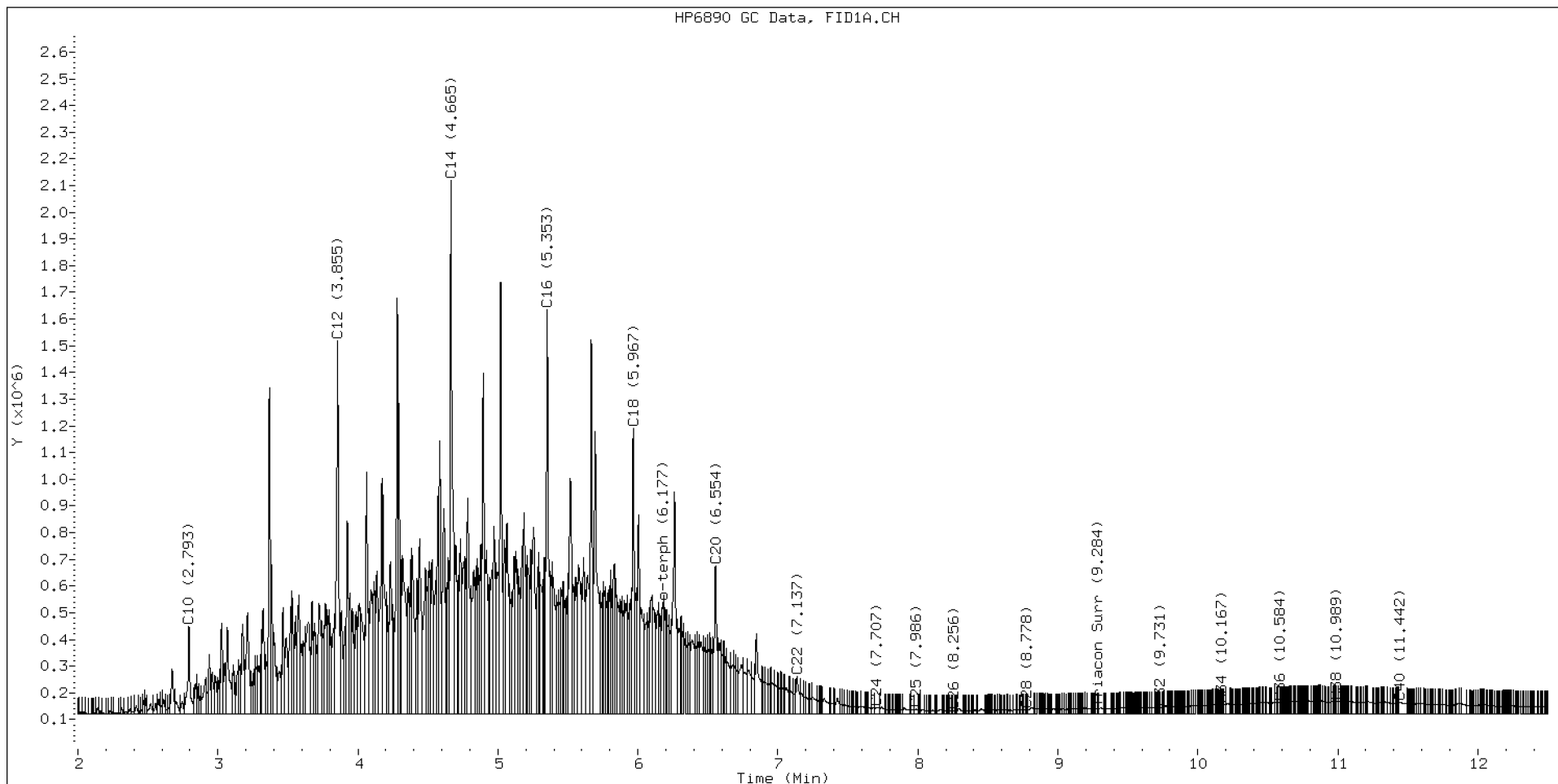
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.554	-0.012	13447	19907	WATPHD	(C12-C24)	81818326	561.4
C10	2.793	-0.008	328700	402623	WATPHM	(C24-C38)	4903930	37.0
C12	3.855	-0.003	1398359	1541786	AK102	(C10-C25)	98237239	570.4
C14	4.665	-0.003	1998212	2275704	AK103	(C25-C36)	3617447	36.6
C16	5.353	-0.003	1514409	1842028	OR.DIES	(C10-C28)	98957633	569.5
C18	5.967	-0.005	1069816	1029152				
C20	6.554	-0.005	555197	666071				
C22	7.137	-0.004	141564	207118				
C24	7.707	-0.002	25196	52303				
C25	7.986	-0.000	18136	25237				
C26	8.256	-0.001	12963	11391				
C28	8.778	0.002	15805	6221				
C32	9.731	0.002	24227	8392				
C34	10.167	-0.000	33488	11671				
Filter Peak	13.974	0.001	19683	11641				
C36	10.584	0.003	44128	15372				
C38	10.989	0.001	46492	34691				
C40	11.442	-0.018	43094	144180				
o-terph	6.177	0.010	416300	426651				
Triacon Surr	9.284	-0.006	19261	10418	NAS DIES	(C10-C24)	98063156	571.0

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	426651	2.2
Triacontane	10418	0.1

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-DEC-2022
Motor Oil	132579.1	06-DEC-2022
AK102	172235.6	06-DEC-2022
AK103	98909.5	06-DEC-2022
OR Diesel	173767.2	06-DEC-2022
NAS Diesel	171749.5	06-DEC-2022





SECOND-SOURCE CALIBRATION VERIFICATION
NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FA00013

Laboratory ID: SKA0028-SCV2

Sequence: SKA0028

Sequence Name: MOIL SCV

Standard ID: J012167

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Motor Oil Range Organics (C24-C38)	1000.0	905	-9.5	30.00

* Indicates values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220106_b\42280633.D

Date: 06-JAN-2022 21:21

Client ID:

Sample Info: SKR0028-SCV2

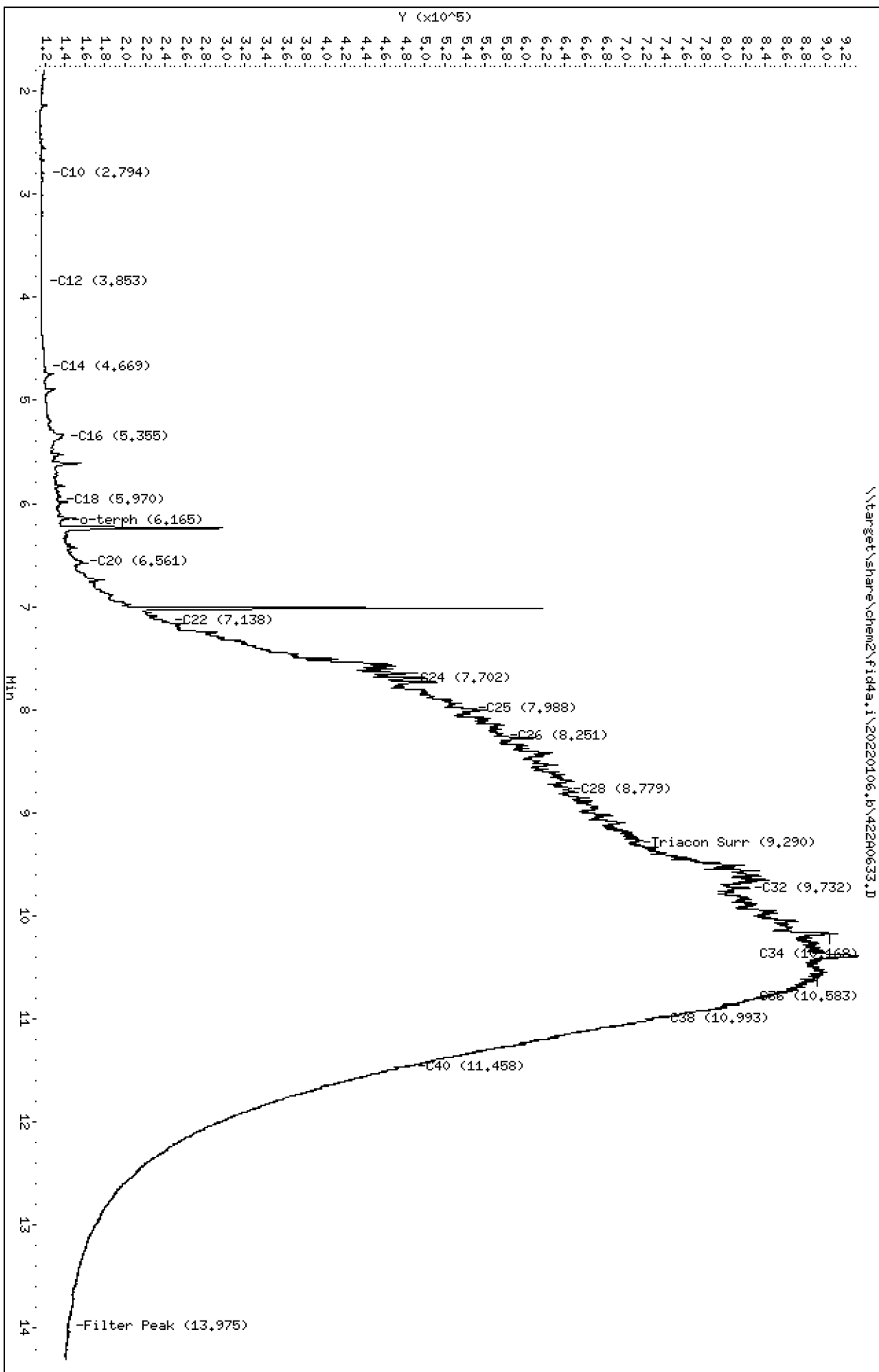
Column phase: RTX-1

Instrument: fid4a,1

Operator: TMC

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20220106_b\42280633.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220106.b/422A0633.D
Method: 20220106.b\FID4TPH.m
Instrument: fid4a.i, TWC
Report Date: 02/08/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:06-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0028-SCV2
Client ID:
Injection: 06-JAN-2022 21:21
Dilution Factor: 1
RT Std: 422A0603.D

FID:4A RESULTS

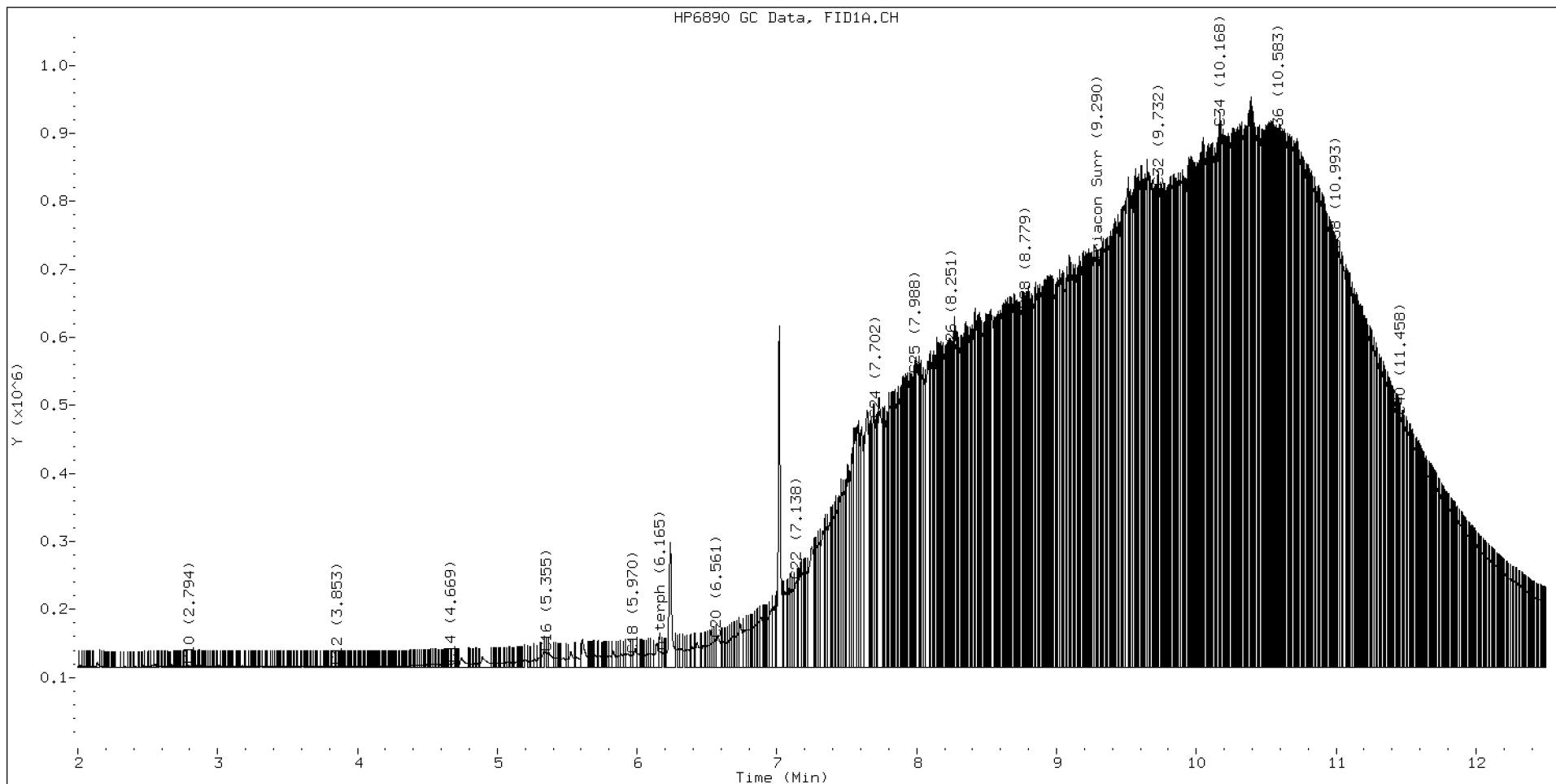
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.571	0.005	9397	3234	WATPHD	(C12-C24)	14056895	96.4
C10	2.794	-0.008	3468	3249	WATPHM	(C24-C38)	119954259	904.8
C12	3.853	-0.006	1998	1502	AK102	(C10-C25)	18142709	105.3
C14	4.669	0.001	4718	2557	AK103	(C25-C36)	98929750	1000.2
C16	5.355	-0.002	21381	13437	OR.DIES	(C10-C28)	43590146	250.9
C18	5.970	-0.003	18024	5393				
C20	6.561	0.002	41385	47221				
C22	7.138	-0.003	126282	164868				
C24	7.702	-0.007	364294	249450				
C25	7.988	0.002	429789	170231				
C26	8.251	-0.006	461561	275289				
C28	8.779	0.003	524231	157049				
C32	9.732	0.002	706043	454955				
C34	10.168	0.001	792309	274623				
Filter Peak	13.975	0.002	27946	6956				
C36	10.583	0.002	779610	310190				
C38	10.993	0.004	614371	153291				
C40	11.458	-0.002	369218	346346				
o-terph	6.165	-0.002	22790	28222				
Triacon Surr	9.290	-0.000	594134	295766	NAS DIES	(C10-C24)	14144817	82.4

Range Times: NW Diesel(3.859 - 7.709) AK102(2.80 - 7.99) Jet A(2.80 - 5.97)
NW M.Oil(7.71 - 10.99) AK103(7.99 - 10.58) OR Diesel(2.80 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	28222	0.1
Triacontane	295766	1.7

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	192003.9	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	145750.5	06-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	172235.6	06-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	173767.2	06-JAN-2022
NAS Diesel	171749.5	06-JAN-2022





Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION
NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FA00054

Laboratory ID: SKA0208-SCV1

Sequence: SKA0208

Sequence Name: DIESEL SCV

Standard ID: J009677

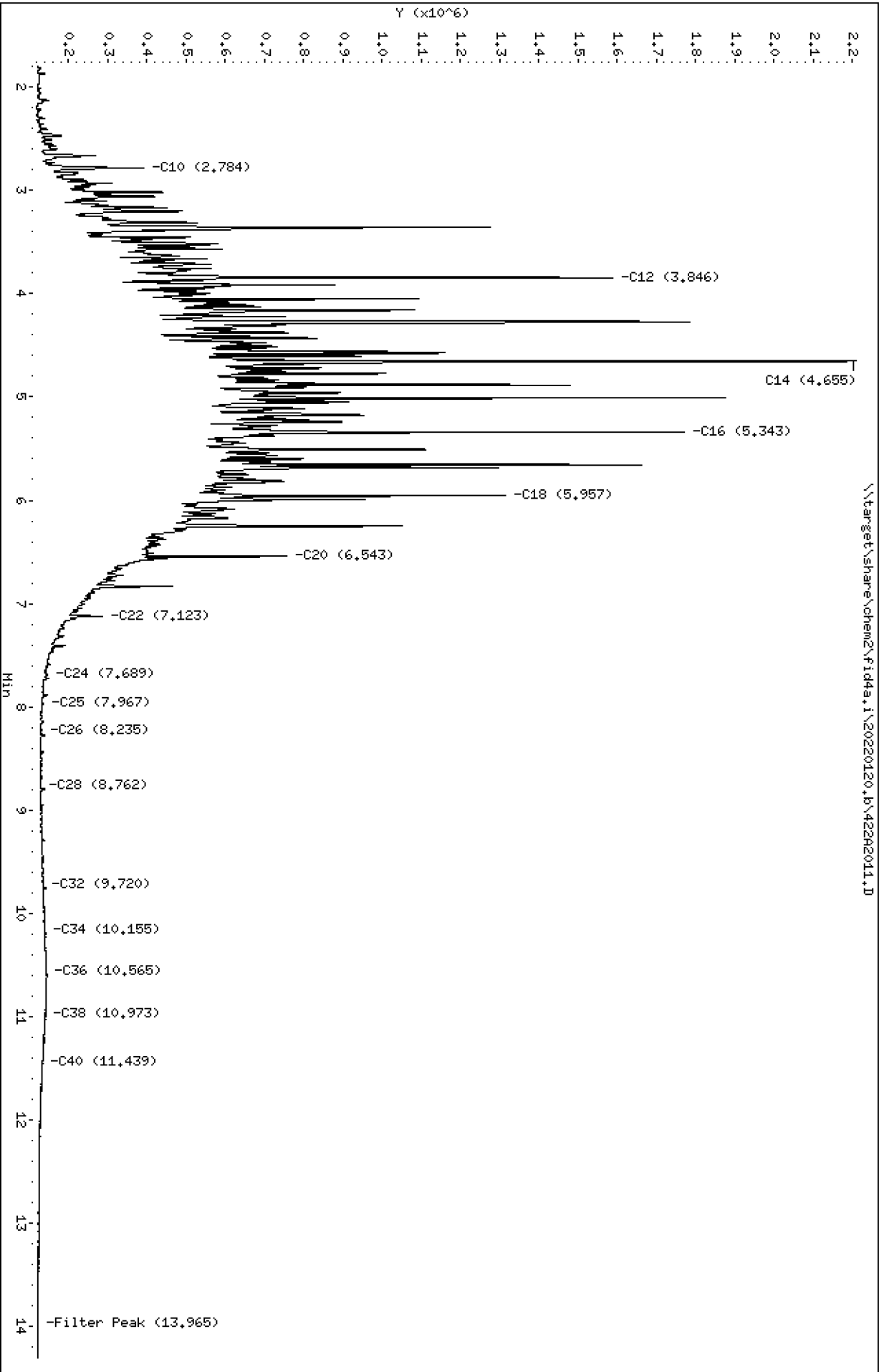
ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Diesel Range Organics (C12-C24)	500.00	579	15.7	30.00

* Indicates values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220120_b\42282011.D
Date: 20-JAN-2022 13:50
Client ID:
Sample Info: SKR0208-SCW1

Column phase: RTX-1

Instrument: fid4a,1
Operator: WLB
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2011.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-SCV1
Client ID:
Injection: 20-JAN-2022 13:50
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

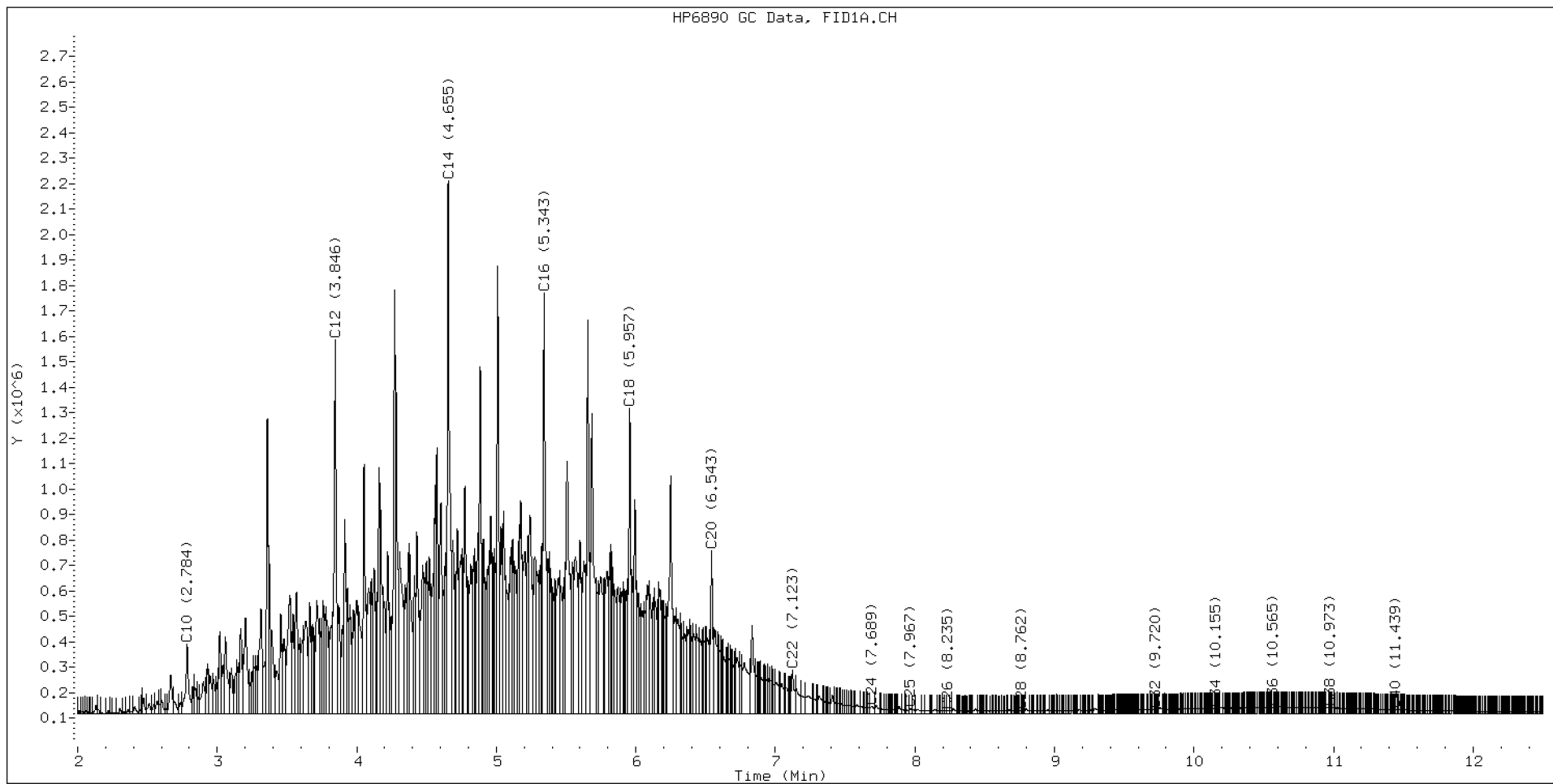
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.544	0.001	18500	21377	WATPHD	(C12-C24)	91791980	578.6
C10	2.784	-0.003	274520	418072	WATPHM	(C24-C38)	3249567	24.5
C12	3.846	-0.002	1470041	1730655	AK102	(C10-C25)	109259392	577.9
C14	4.655	-0.002	2091691	2520186	AK103	(C25-C36)	2486512	25.1
C16	5.343	-0.002	1652289	1980684	OR.DIES	(C10-C28)	109898714	579.2
C18	5.957	-0.005	1198312	1177531				
C20	6.543	-0.006	639233	695730				
C22	7.123	-0.007	169547	241250				
C24	7.689	-0.007	28257	52637				
C25	7.967	-0.007	19233	25038				
C26	8.235	-0.009	12361	12259				
C28	8.762	-0.002	11738	2920				
C32	9.720	0.003	17524	10151				
C34	10.155	0.000	21103	7290				
Filter Peak	13.965	0.003	4638	1151				
C36	10.565	-0.003	24473	16973				
C38	10.973	-0.002	22520	6721				
C40	11.439	0.001	15551	3097				
o-terph	----							
Triacon Surr	----				NAS DIES	(C10-C24)	109074547	578.1

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	0	0.0
Triacontane	0	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022





INITIAL CALIBRATION CHECK
NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: FID4

Calibration: FA00054

Lab File ID: 422C0305.D

Calibration Date: 01/31/2022

Sequence: SKC0073

Injection Date: 03/03/22

Lab Sample ID: SKC0073-ICV1

Injection Time: 10:15

Sequence Name: DIESEL ICV

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	456	158638.4000	144666.4000		-8.8	+/-15
o-Terphenyl	A	90.000	82.7	203634.1000	187193.7000		-8.1	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220303,b\42200305.D

Date : 03-MAR-2022 10:15

Client ID:

Sample Info: SEQ-ICV1

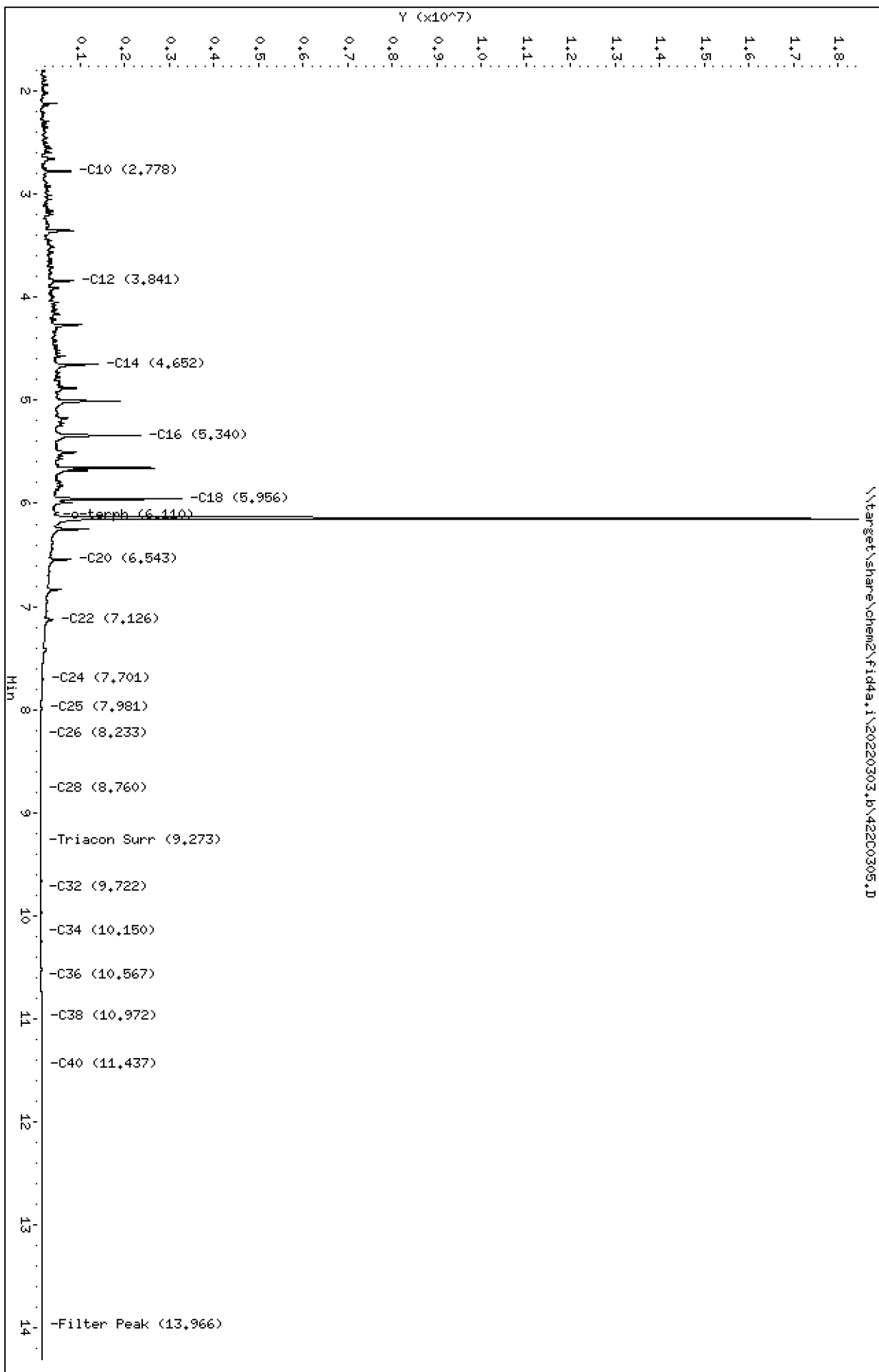
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220303.b/422C0305.D
Method: 20220303.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 03/04/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-ICV1
Client ID:
Injection: 03-MAR-2022 10:15
Dilution Factor: 1
RT Std: 422C0303.D

FID:4A RESULTS

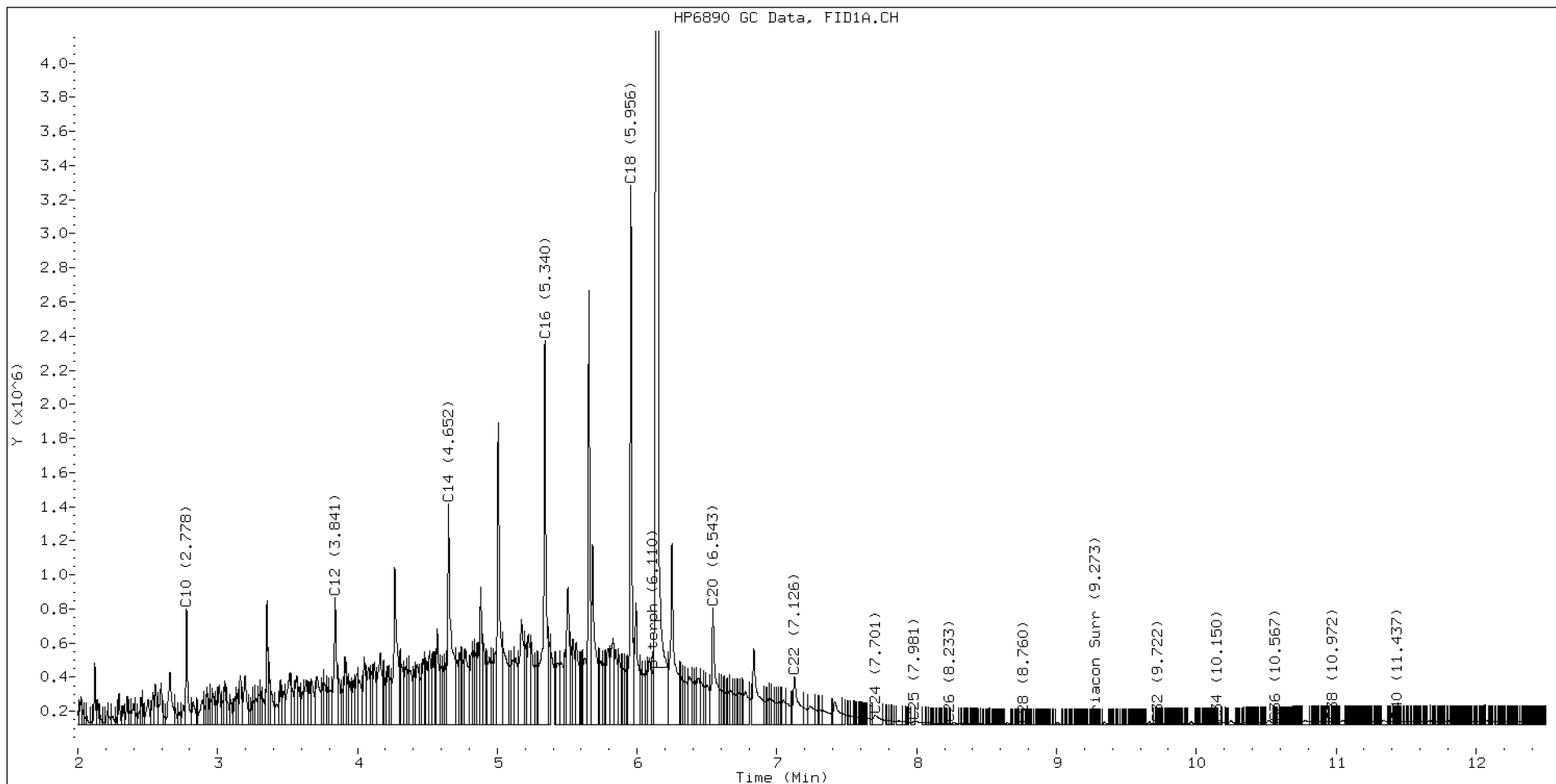
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.535	-0.007	87141	52064	WATPHD	(C12-C24)	72333219	456.0
C10	2.778	-0.004	677545	651792	WATPHM	(C24-C38)	1263600	9.5
C12	3.841	-0.002	742723	946085	AK102	(C10-C25)	84868077	448.9
C14	4.652	-0.002	1293787	2338446	AK103	(C25-C36)	725090	7.3
C16	5.340	-0.004	2249303	3236617	OR.DIES	(C10-C28)	85081903	448.4
C18	5.956	-0.003	3158953	2992803				
C20	6.543	-0.004	680407	1281403	JET-A	(C10-C18)	66312529	382.9
C22	7.126	-0.001	278577	743481				
C24	7.701	0.006	55406	184553				
C25	7.981	0.008	19792	29263				
C26	8.233	-0.009	5082	2009				
C28	8.760	-0.001	580	158				
C32	9.722	0.006	2802	1724				
C34	10.150	-0.004	6891	1693				
Filter Peak	13.966	0.001	17525	7826				
C36	10.567	-0.000	12607	6885				
C38	10.972	0.001	16727	5820				
C40	11.437	-0.000	19523	4869				
o-terph	6.149	-0.002	17996892	16847427				
Triacon Surr	9.273	-0.003	985	413	NAS DIES	(C10-C24)	84708051	449.0

Range Times: NW Diesel(3.843 - 7.696) AK102(2.78 - 7.97) Jet A(2.78 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.78 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	16847427	82.7 M
Triacontane	413	0.0

M Indicates the peak was manually integrated

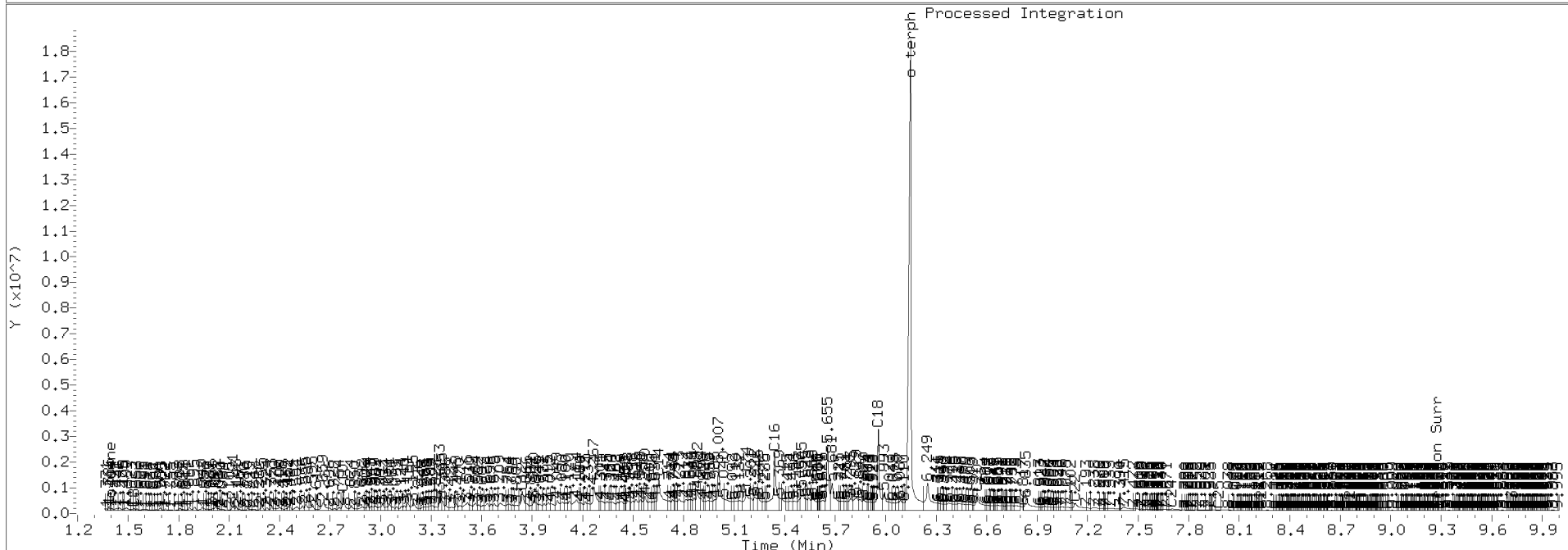
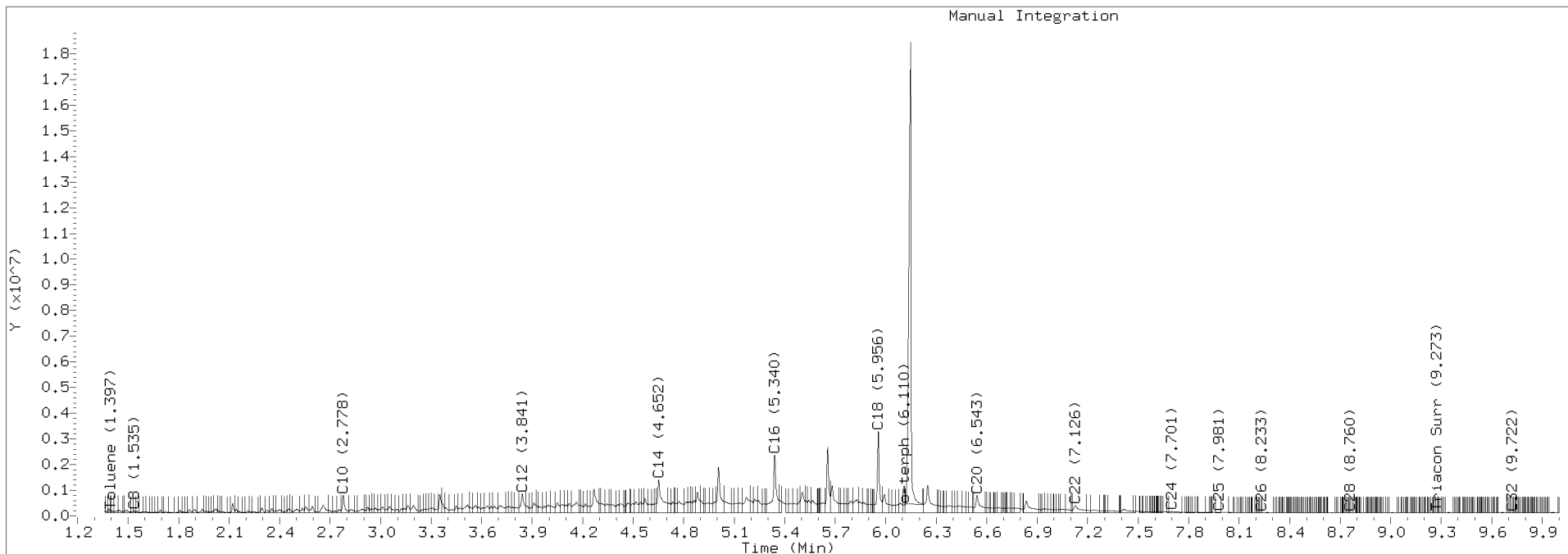
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220303.b/422C0305.D Injection: 03-MAR-2022 10:15

Lab ID:SEQ-ICV1





INITIAL CALIBRATION CHECK
NWTPH-Dx

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>FA00054</u>
Lab File ID:	<u>422C0306.D</u>	Calibration Date:	<u>01/31/2022</u>
Sequence:	<u>SKC0073</u>	Injection Date:	<u>03/03/22</u>
Lab Sample ID:	<u>SKC0073-ICV2</u>	Injection Time:	<u>10:35</u>
Sequence Name:	<u>MOIL ICV</u>		

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Motor Oil Range Organics (C24-C38)	A	1000.0	896	132579.1000	118785.4000		-10.4	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220303,b\42200306.D

Date : 03-MAR-2022 10:35

Client ID:

Sample Info: SEQ-ICV2

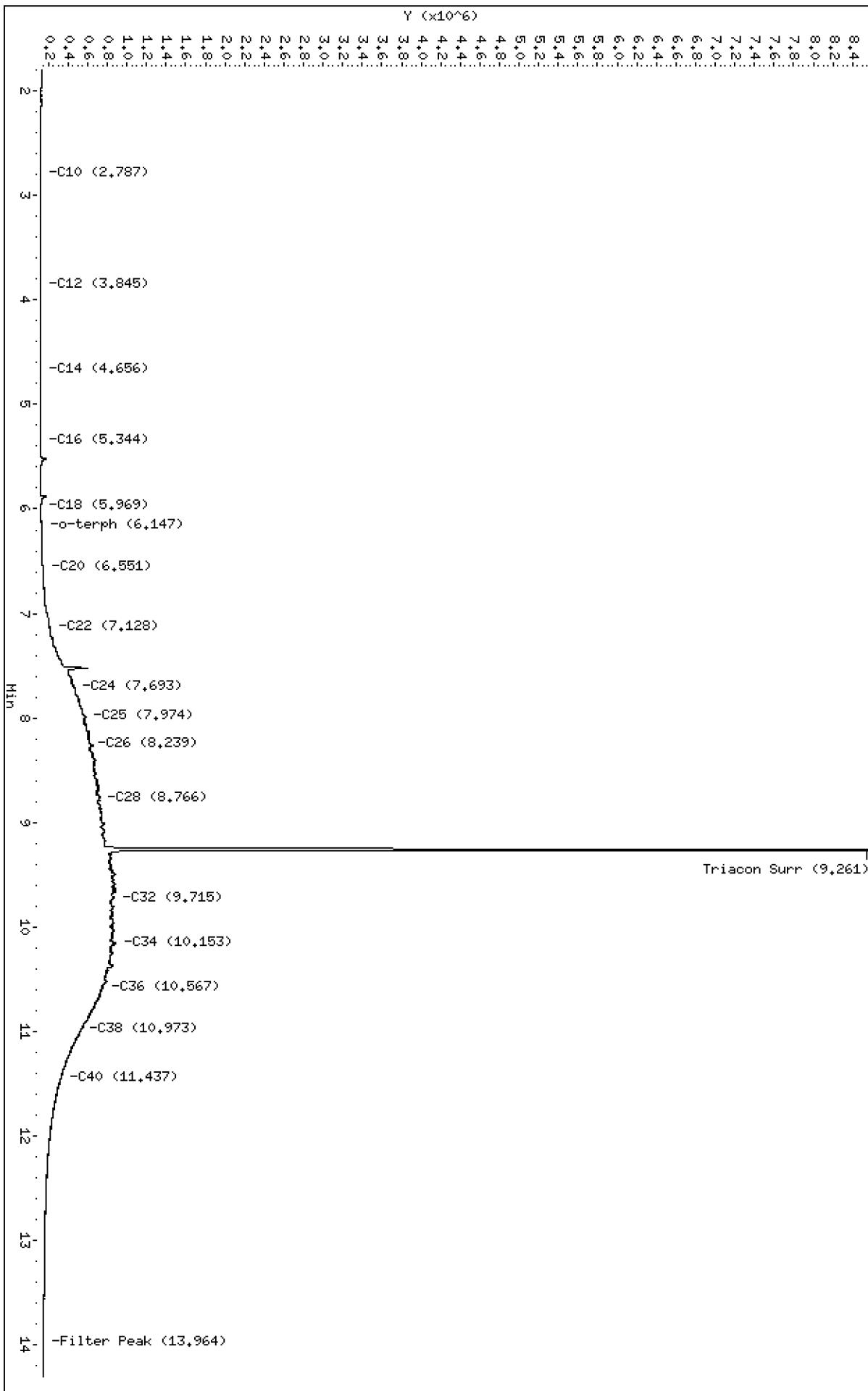
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220303.b/422C0306.D
Method: 20220303.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 03/04/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-ICV2
Client ID:
Injection: 03-MAR-2022 10:35
Dilution Factor: 1
RT Std: 422C0303.D

FID:4A RESULTS

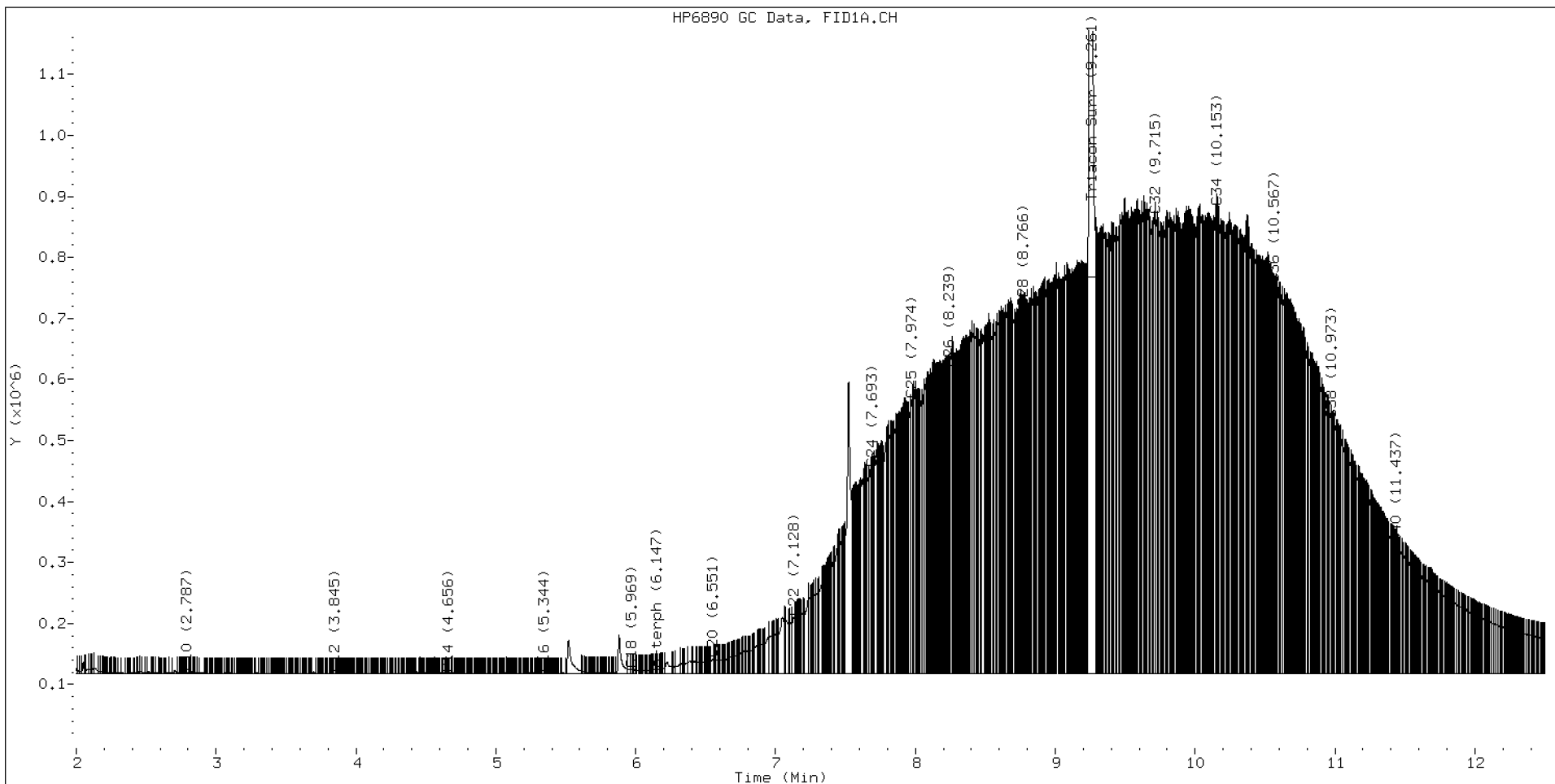
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.537	-0.005	24659	25155	WATPHD	(C12-C24)	10404883	65.6
C10	2.787	0.006	1550	452	WATPHM	(C24-C38)	118785388	896.0
C12	3.845	0.002	728	268	AK102	(C10-C25)	14588390	77.2
C14	4.656	0.002	1229	537	AK103	(C25-C36)	102673589	1038.1
C16	5.344	-0.000	1150	217	OR.DIES	(C10-C28)	42625090	224.6
C18	5.969	0.010	6685	6384				
C20	6.551	0.005	24027	34503	JET-A	(C10-C18)	432962	2.5
C22	7.128	0.001	93285	110689				
C24	7.693	-0.003	336304	117158				
C25	7.974	0.001	449598	287535				
C26	8.239	-0.003	500551	224117				
C28	8.766	0.005	598718	238951				
C32	9.715	-0.002	750868	742245				
C34	10.153	-0.001	764191	152473				
Filter Peak	13.964	-0.001	30712	9190				
C36	10.567	-0.000	638771	285418				
C38	10.973	0.002	416703	103972				
C40	11.437	-0.000	211736	94183				
o-terph	6.147	-0.003	7739	3790				
Triacon Surr	9.261	-0.014	7806466	7743839	NAS DIES	(C10-C24)	10469110	55.5

Range Times: NW Diesel(3.843 - 7.696) AK102(2.78 - 7.97) Jet A(2.78 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.78 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	3790	0.0
Triacontane	7743839	44.4 M

M Indicates the peak was manually integrated

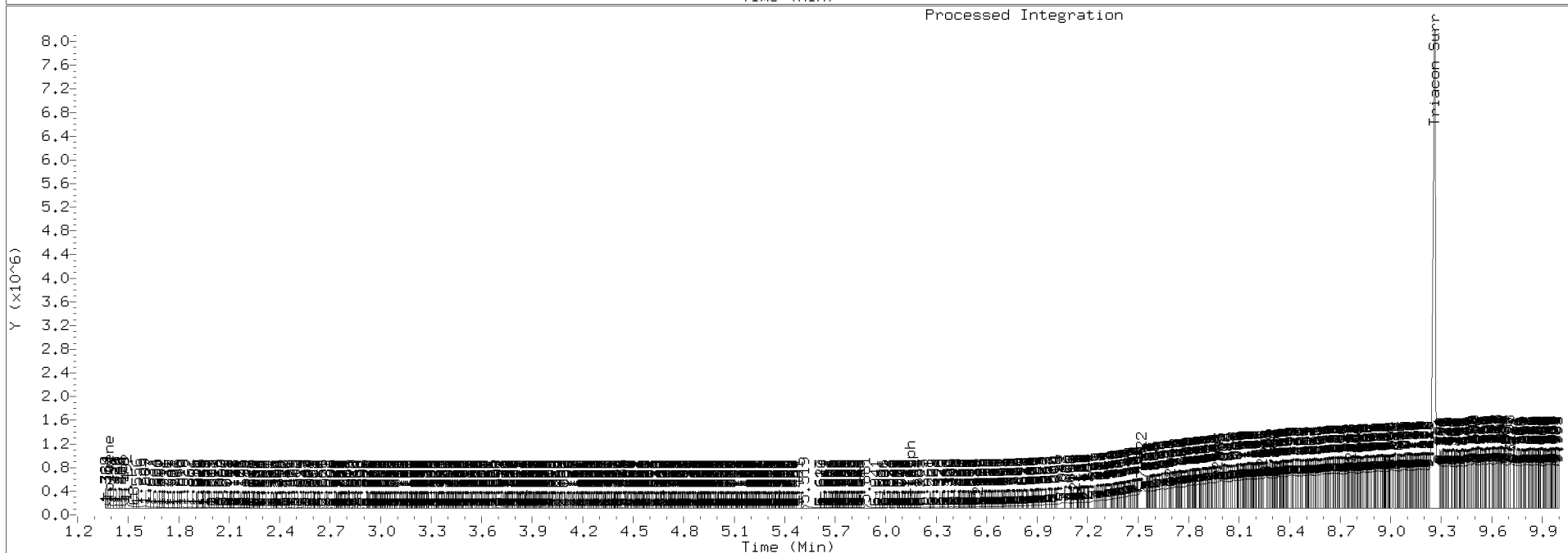
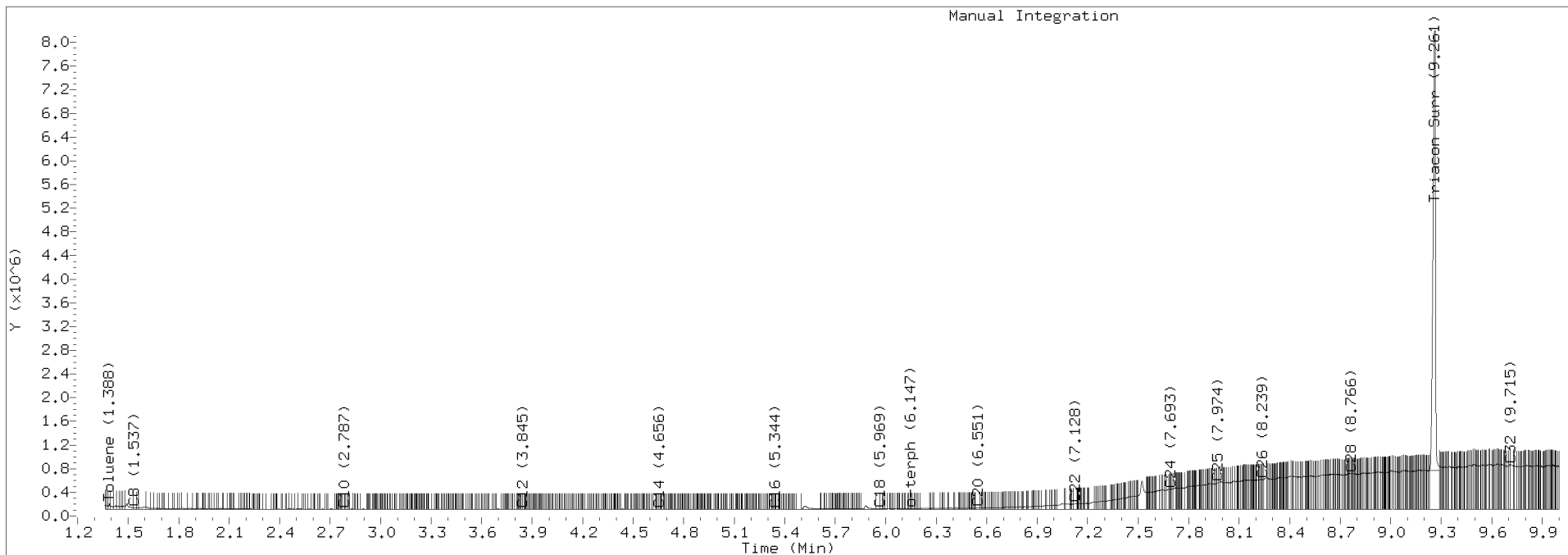
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220303.b/422C0306.D Injection: 03-MAR-2022 10:35

Lab ID:SEQ-ICV2





INITIAL CALIBRATION CHECK
NWTPH-Dx

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>FA00054</u>
Lab File ID:	<u>422C0341.D</u>	Calibration Date:	<u>01/31/2022</u>
Sequence:	<u>SKC0073</u>	Injection Date:	<u>03/03/22</u>
Lab Sample ID:	<u>SKC0073-ICV3</u>	Injection Time:	<u>22:07</u>
Sequence Name:	<u>JETAICV</u>		

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Jet-A Range Organics (C10-C18)	A	500.00	500	173192.9000	173192.9000			+/-15
o-Terphenyl	A	90.000	96.1	203634.1000	217416.2000		6.8	+/-15

* Values outside of QC limits



INITIAL CALIBRATION CHECK
NWTPH-Dx

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>FA00054</u>
Lab File ID:	<u>422D2111.D</u>	Calibration Date:	<u>01/31/2022</u>
Sequence:	<u>SKE0009</u>	Injection Date:	<u>04/21/22</u>
Lab Sample ID:	<u>SKE0009-ICV1</u>	Injection Time:	<u>19:29</u>
Sequence Name:	<u>DIESEL ICV</u>		

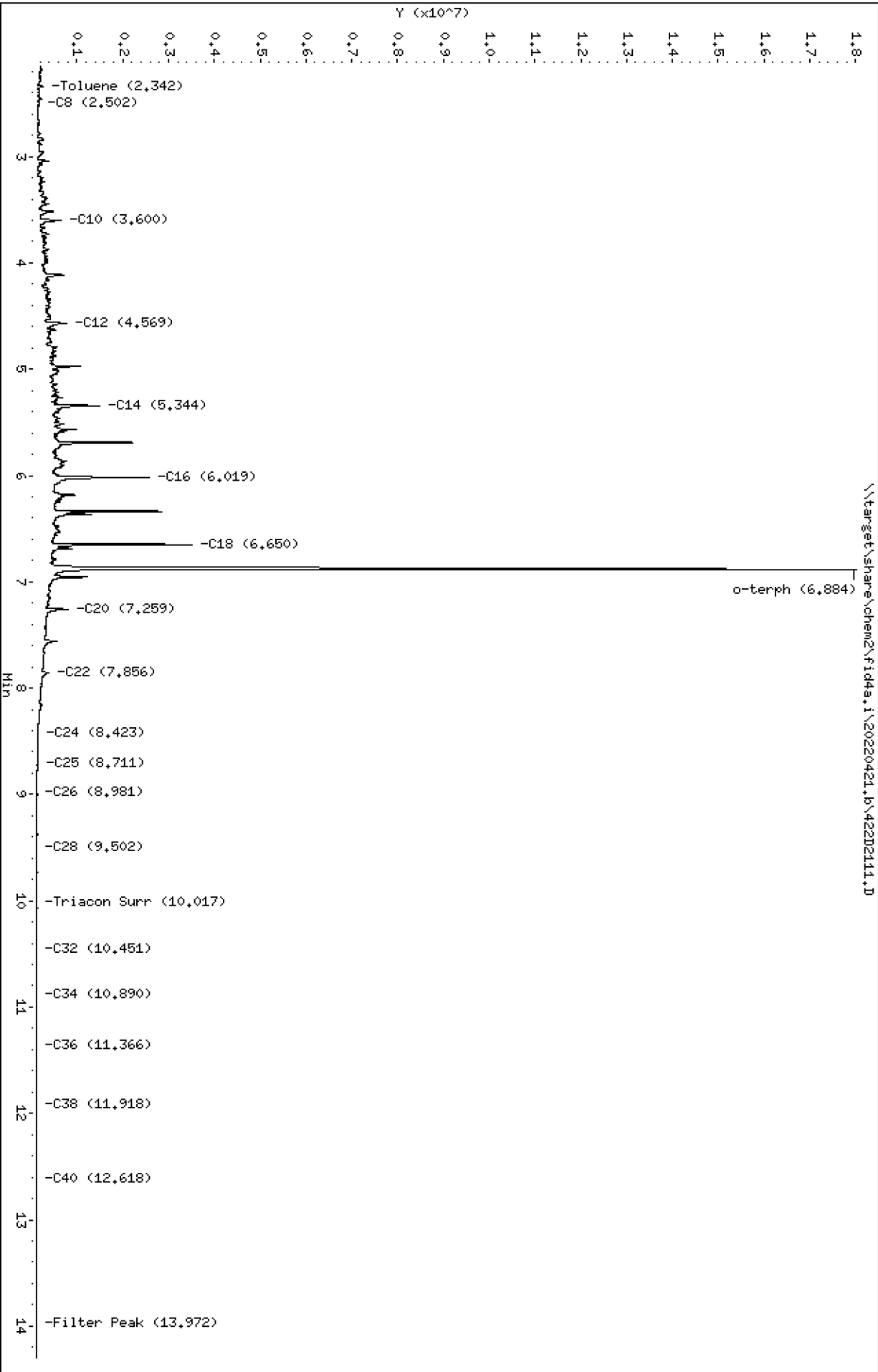
COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	515	158638.4000	163446.0000		3.0	+/-15
o-Terphenyl	A	90.000	91.3	203634.1000	206518.0000		1.4	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220421_b\422D2111.D
Date: 21-APR-2022 19:29
Client ID:
Sample Info: SEQ-ICV1

Column phase: RTX-1

Instrument: fid4a,1
Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220421.b/422D2111.D
Method: 20220421.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 05/02/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-ICV1
Client ID:
Injection: 21-APR-2022 19:29
Dilution Factor: 1
RT Std: 422D2103.D

FID:4A RESULTS

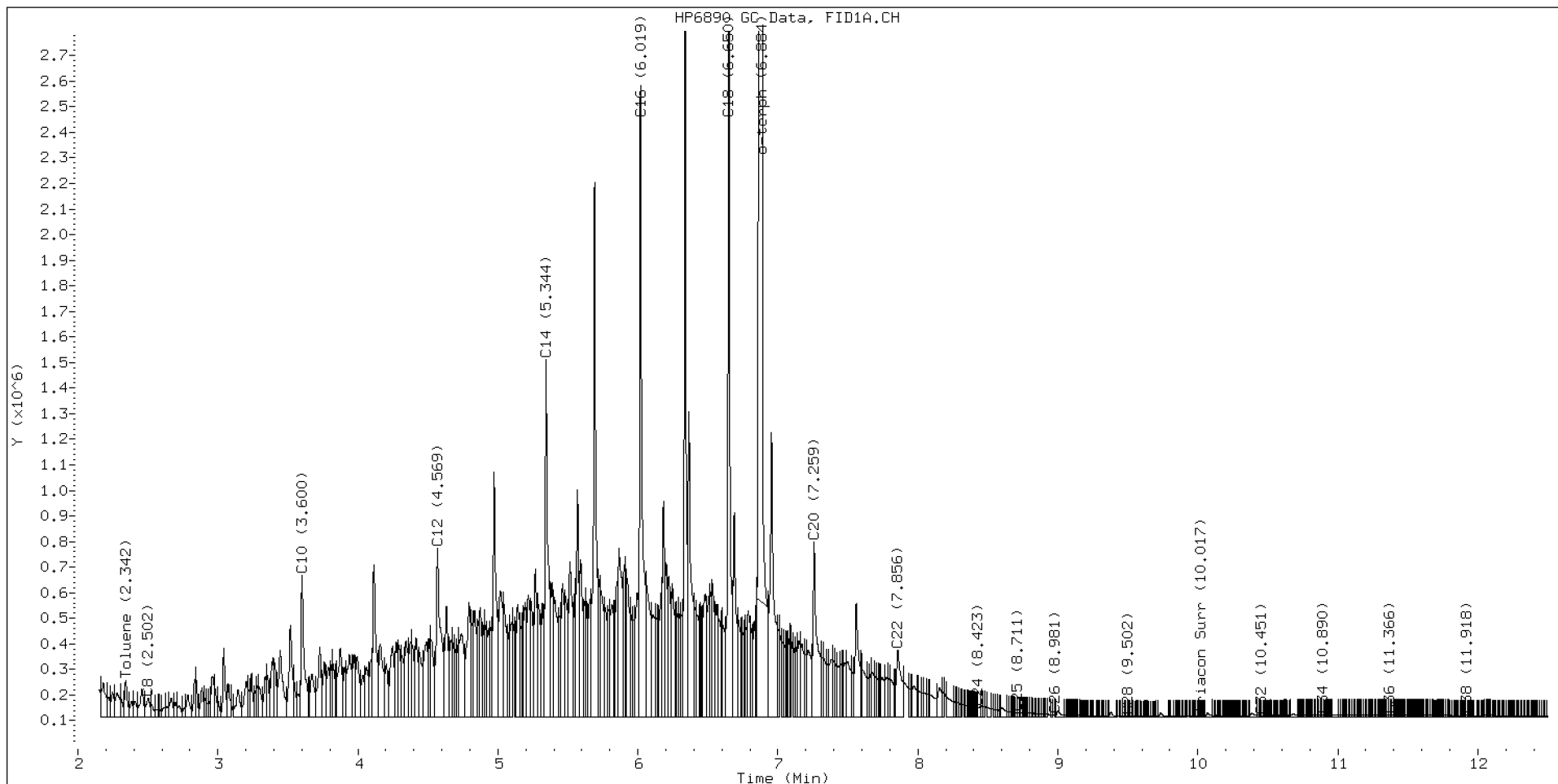
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.502	-0.001	72127	128803	WATPHD	(C12-C24)	81722994	515.2
C10	3.600	-0.004	551705	862956	WATPHM	(C24-C38)	1183728	8.9
C12	4.569	-0.002	656261	1453616	AK102	(C10-C25)	95822378	506.8
C14	5.344	-0.003	1396702	2068354	AK103	(C25-C36)	784617	7.9
C16	6.019	-0.002	2467764	3087482	OR.DIES	(C10-C28)	96157539	506.8
C18	6.650	-0.003	3397208	3348527				
C20	7.259	-0.003	681970	1362462	JET-A	(C10-C18)	74853825	432.2
C22	7.856	-0.003	259576	629025				
C24	8.423	-0.012	34489	18820				
C25	8.711	-0.003	15626	11440				
C26	8.981	-0.003	6904	1373				
C28	9.502	-0.002	572	216				
C32	10.451	-0.003	4257	1825				
C34	10.890	-0.004	5153	3011				
Filter Peak	13.972	-0.007	1796	1831	BUNKERC	(C10-C38)	96759026	1627.9
C36	11.366	-0.002	5479	4698				
C38	11.918	-0.003	4507	3479				
C40	12.618	-0.005	2954	2816				
o-terph	6.884	-0.004	17459458	18586625				
Triacon Surr	10.017	-0.001	1627	527	NAS DIES	(C10-C24)	95575297	506.6

Range Times: NW Diesel(4.571 - 8.436) AK102(3.60 - 8.71) Jet A(3.60 - 6.65)
NW M.Oil(8.44 - 11.92) AK103(8.71 - 11.37) OR Diesel(3.60 - 9.50)

Surrogate	Area	Amount
o-Terphenyl	18586625	91.3 M
Triacontane	527	0.0

M Indicates the peak was manually integrated

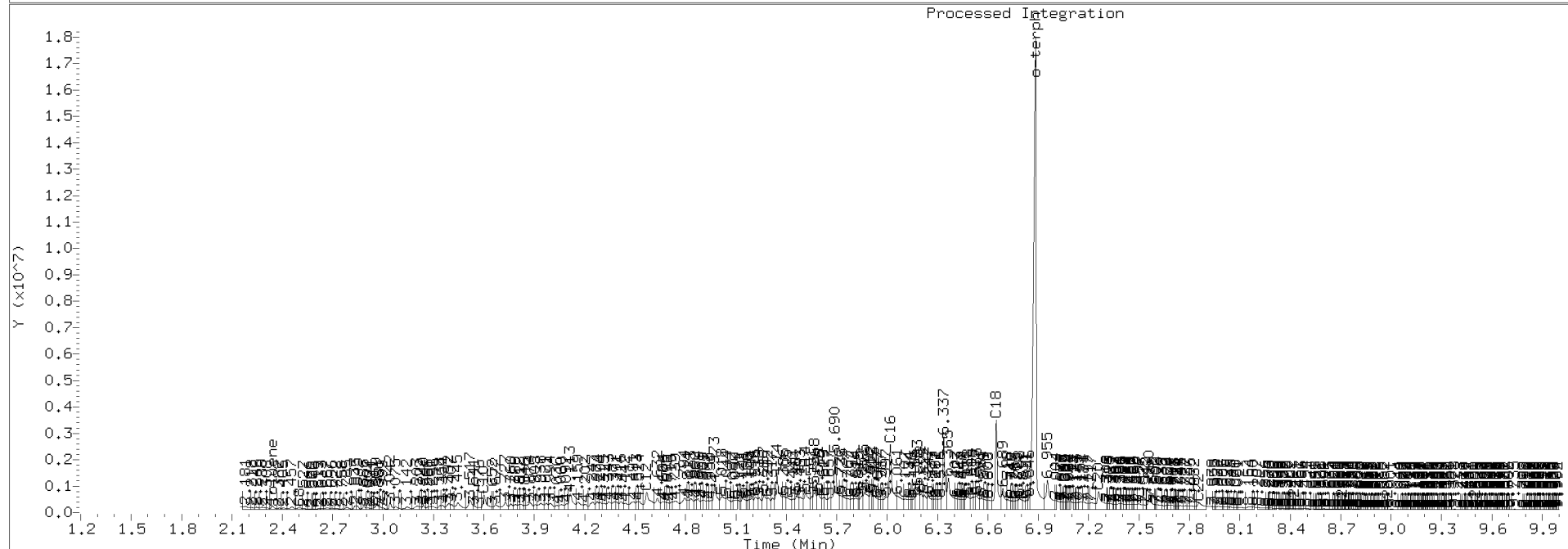
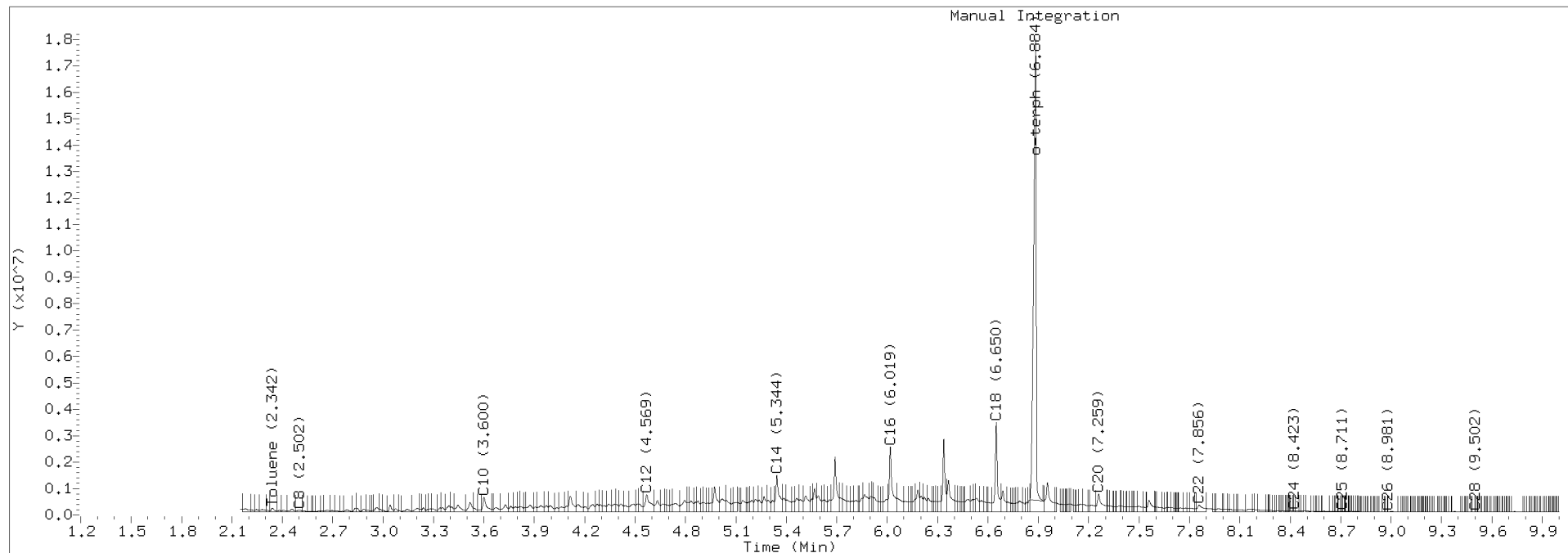
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022
Bunker C	59438.6	21-APR-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220421.b/422D2111.D Injection: 21-APR-2022 19:29

Lab ID:SEQ-ICV1





INITIAL CALIBRATION CHECK
NWTPH-Dx

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>FA00054</u>
Lab File ID:	<u>422D2112.D</u>	Calibration Date:	<u>01/31/2022</u>
Sequence:	<u>SKE0009</u>	Injection Date:	<u>04/21/22</u>
Lab Sample ID:	<u>SKE0009-ICV2</u>	Injection Time:	<u>19:49</u>
Sequence Name:	<u>MOIL ICV</u>		

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Motor Oil Range Organics (C24-C38)	A	1000.0	890	132579.1000	117961.4000		-11.0	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220421.b\422D2112.D

Date : 21-APR-2022 19:49

Client ID:

Sample Info: SEQ-ICV2

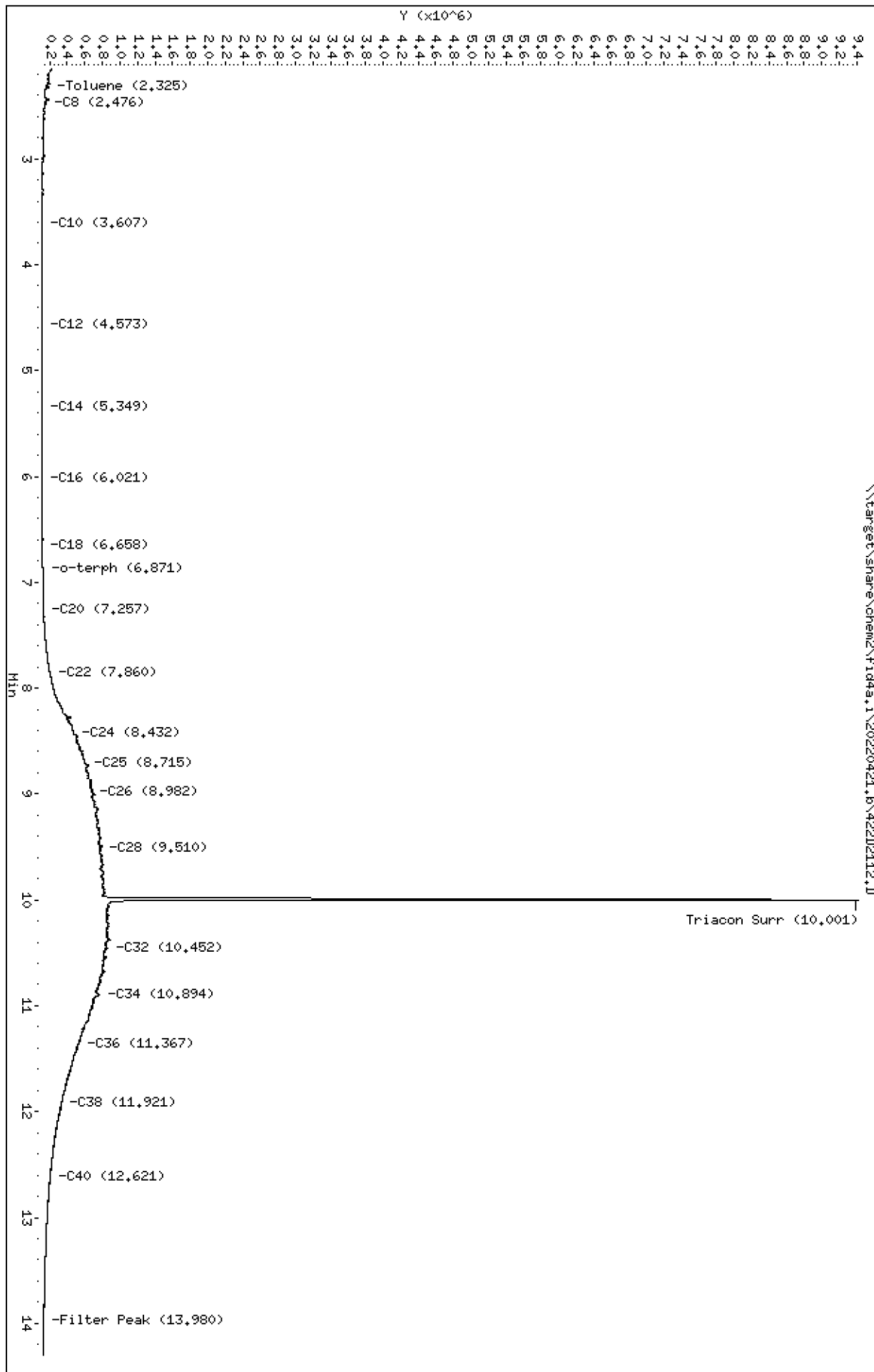
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20220421.b\422D2112.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220421.b/422D2112.D
Method: 20220421.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 05/02/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-ICV2
Client ID:
Injection: 21-APR-2022 19:49
Dilution Factor: 1
RT Std: 422D2103.D

FID:4A RESULTS

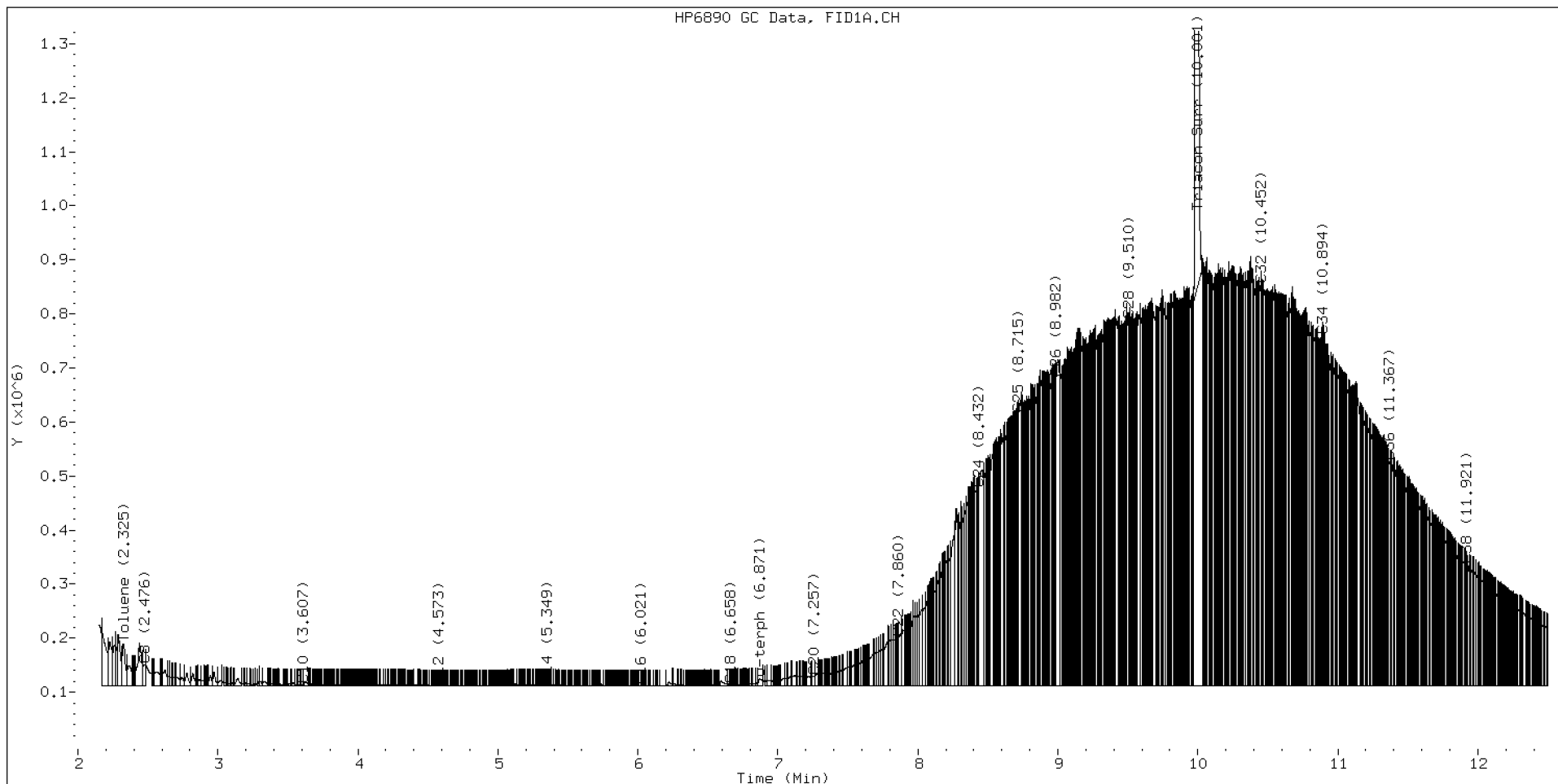
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.476	-0.027	39432	44057	WATPHD	(C12-C24)	10568525	66.6
C10	3.607	0.003	3077	726	WATPHM	(C24-C38)	117961404	889.7
C12	4.573	0.003	1151	441	AK102	(C10-C25)	15272312	80.8
C14	5.349	0.002	1847	441	AK103	(C25-C36)	103805804	1049.5
C16	6.021	-0.001	687	157	OR.DIES	(C10-C28)	46932548	247.3
C18	6.658	0.005	2961	581				
C20	7.257	-0.005	18173	17777	JET-A	(C10-C18)	305392	1.8
C22	7.860	0.001	90040	22421				
C24	8.432	-0.004	364865	144416				
C25	8.715	0.001	504204	125247				
C26	8.982	-0.002	568443	141963				
C28	9.510	0.006	676489	234965				
C32	10.452	-0.002	743623	402958				
C34	10.894	0.000	649275	193720				
Filter Peak	13.980	0.002	21258	16703	BUNKERC	(C10-C38)	128665438	2164.7
C36	11.367	-0.001	415803	288689				
C38	11.921	-0.001	223685	186769				
C40	12.621	-0.002	93196	64551				
o-terph	6.871	-0.017	13148	24260				
Triacon Surr	10.001	-0.017	8566137	8024602	NAS DIES	(C10-C24)	10704035	56.7

Range Times: NW Diesel(4.571 - 8.436) AK102(3.60 - 8.71) Jet A(3.60 - 6.65)
NW M.Oil(8.44 - 11.92) AK103(8.71 - 11.37) OR Diesel(3.60 - 9.50)

Surrogate	Area	Amount
o-Terphenyl	24260	0.1
Triacotane	8024602	46.1 M

M Indicates the peak was manually integrated

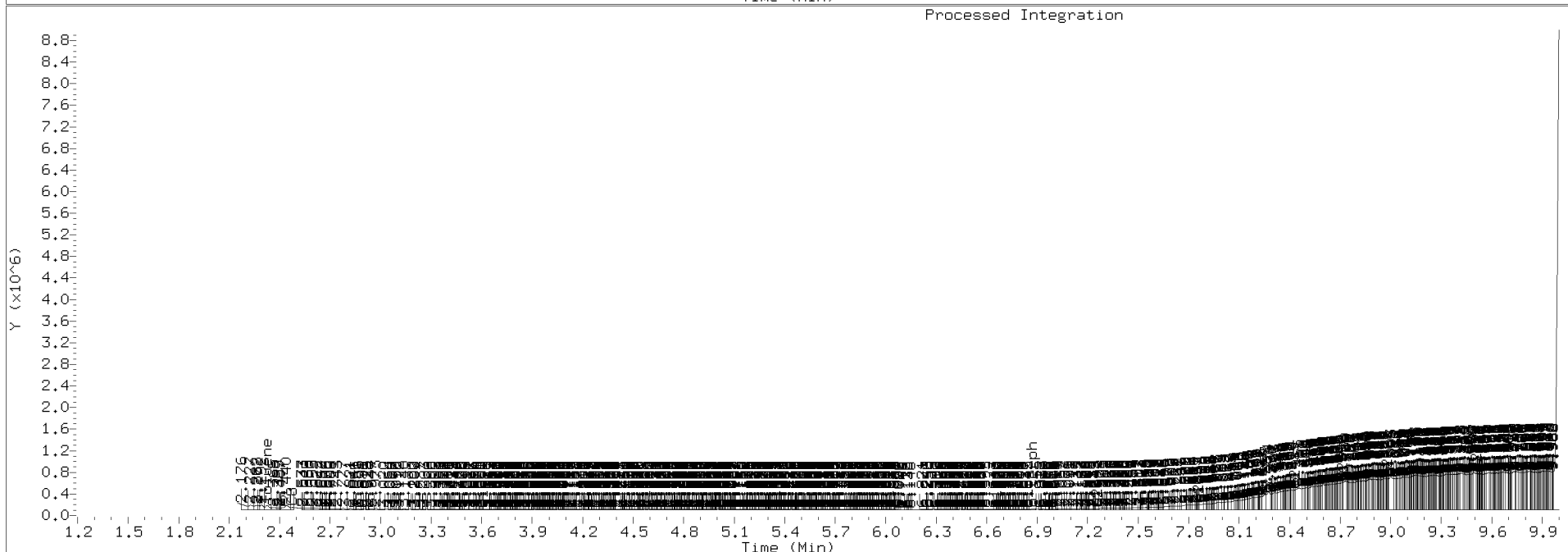
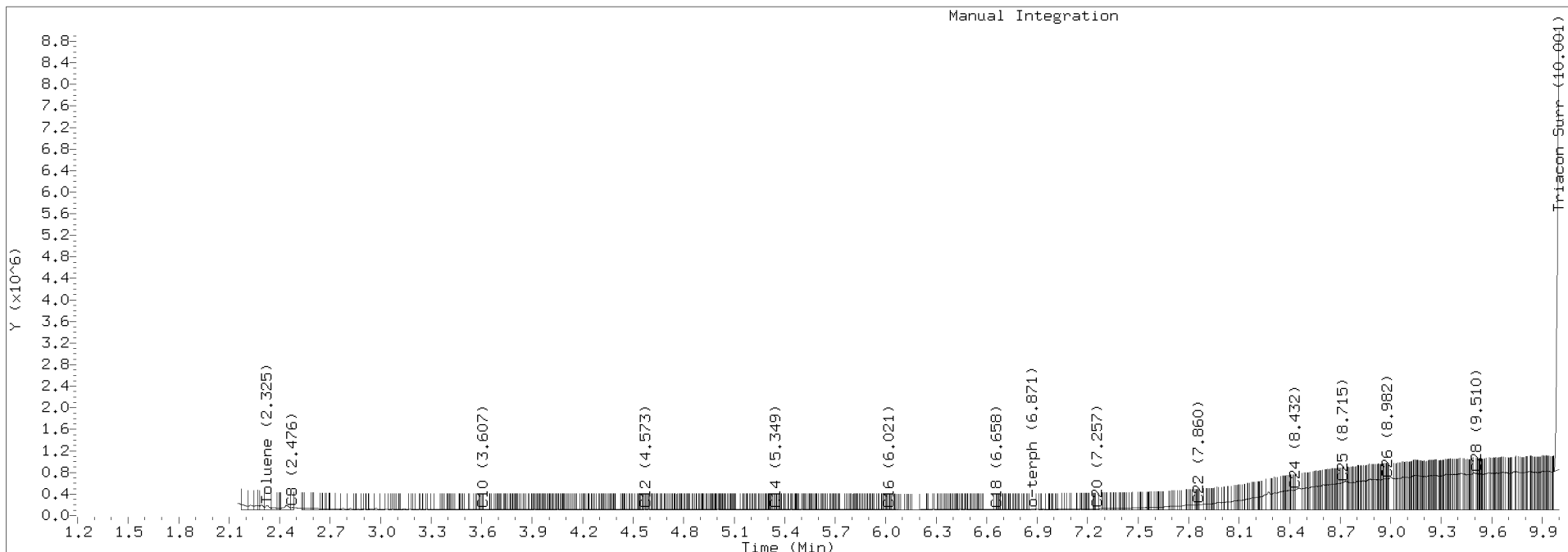
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022
Bunker C	59438.6	21-APR-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220421.b/422D2112.D Injection: 21-APR-2022 19:49

Lab ID:SEQ-ICV2





INITIAL CALIBRATION CHECK NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: FID4

Calibration: FA00054

Lab File ID: 422D2113.D

Calibration Date: 01/31/2022

Sequence: SKE0009

Injection Date: 04/21/22

Lab Sample ID: SKE0009-ICV3

Injection Time: 20:09

Sequence Name: A/SBunkerC CCV

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Bunker C Range Organics (C10-C38)	A	1000.0	975	59438.6400	57922.2600		-2.6	+/-15
o-Terphenyl	A	45.000	44.4	203634.1000	200857.8000		-1.3	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220421_b\422D2113.D

Date : 21-APR-2022 20:09

Client ID:

Sample Info: SEQ-ICV3

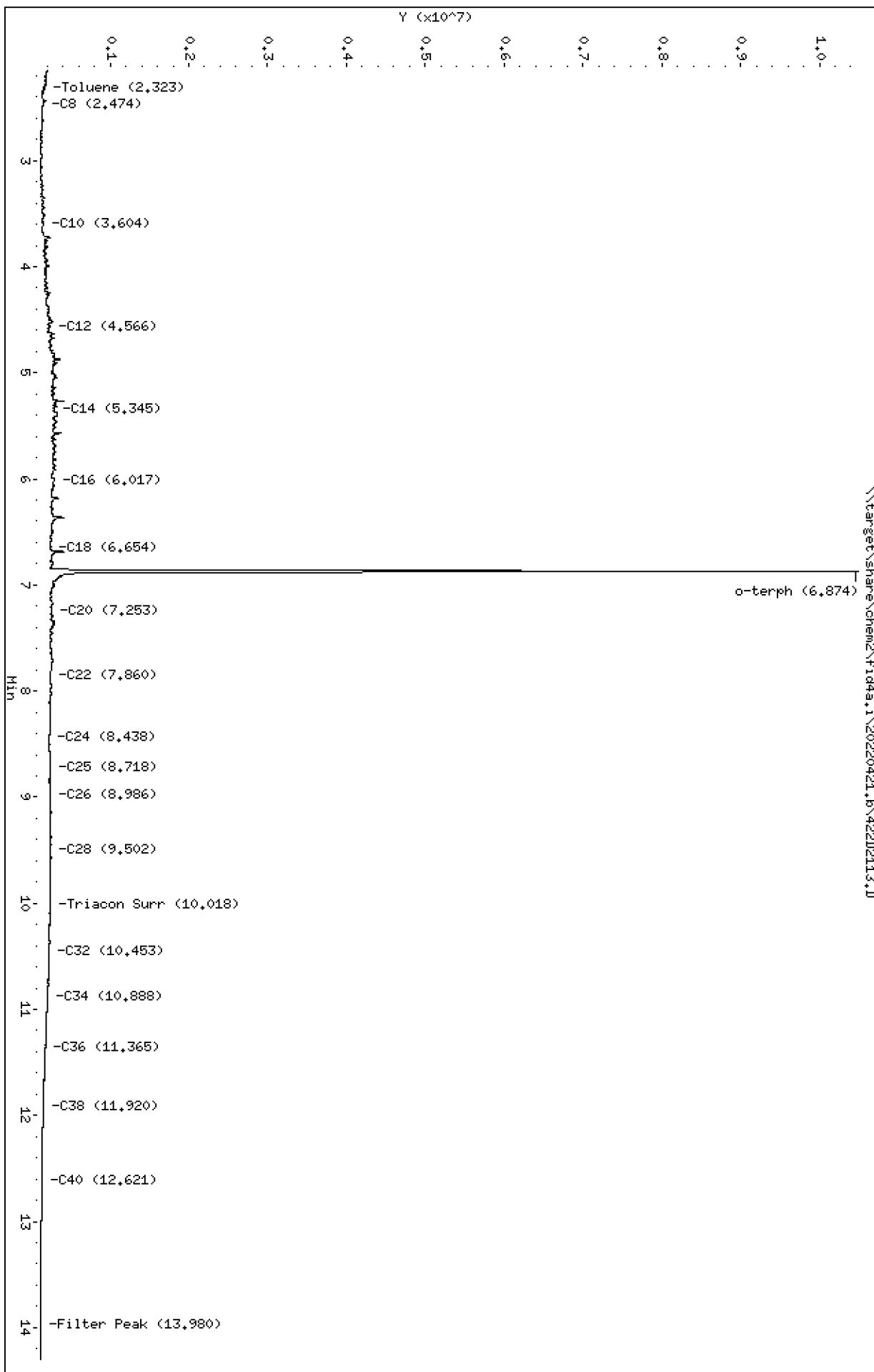
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220421.b/422D2113.D
Method: 20220421.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 05/02/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-ICV3
Client ID:
Injection: 21-APR-2022 20:09
Dilution Factor: 1
RT Std: 422D2103.D

FID:4A RESULTS

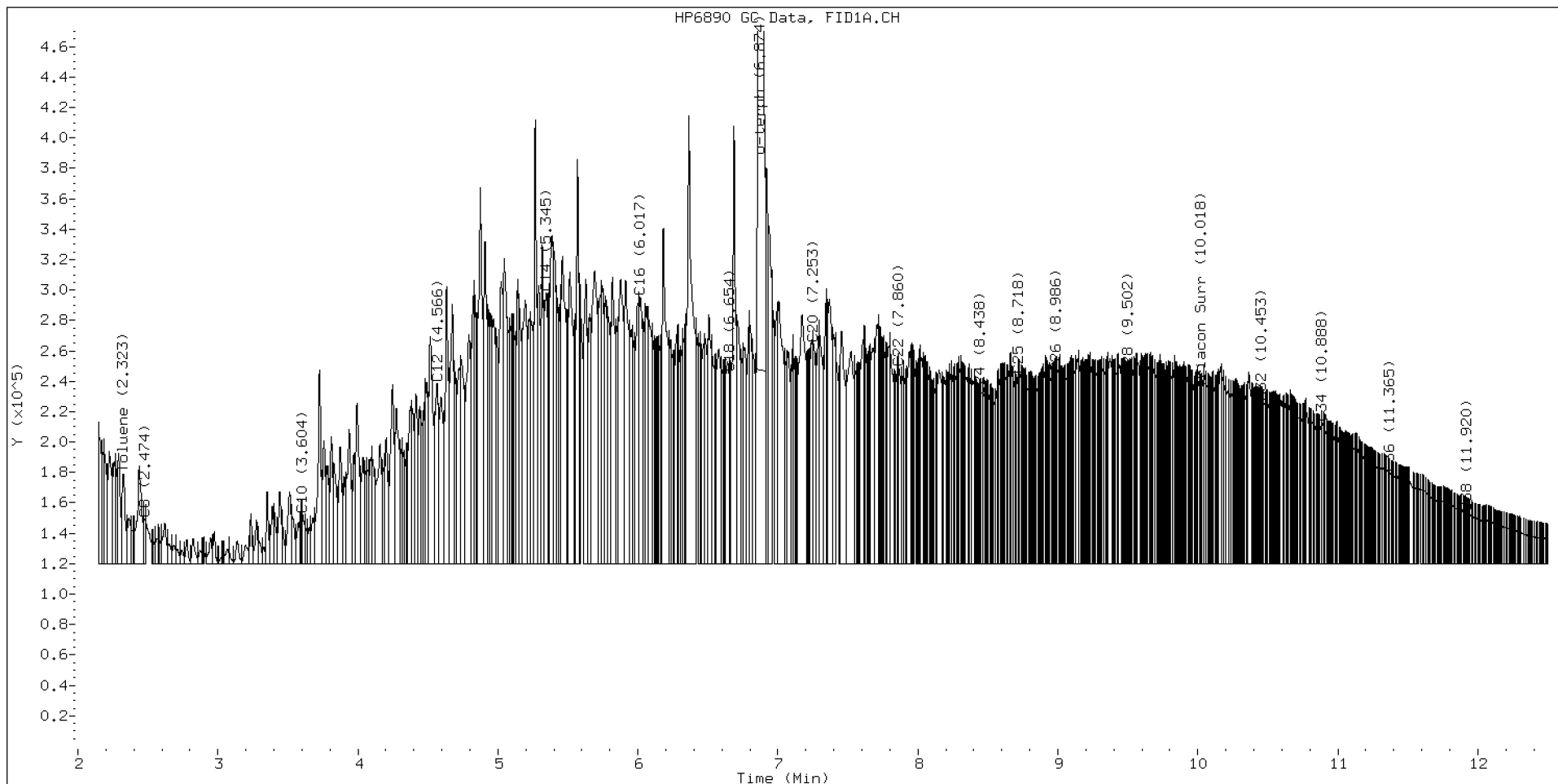
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.474	-0.028	29481	26098	WATPHD	(C12-C24)	33203785	209.3
C10	3.604	0.000	32380	39469	WATPHM	(C24-C38)	20262183	152.8
C12	4.566	-0.005	118468	220823	AK102	(C10-C25)	38925778	205.9
C14	5.345	-0.002	178313	274208	AK103	(C25-C36)	17593854	177.9
C16	6.017	-0.005	175350	275575	OR.DIES	(C10-C28)	45469146	239.6
C18	6.654	0.001	125822	68623				
C20	7.253	-0.009	144478	208190	JET-A	(C10-C18)	24077820	139.0
C22	7.860	0.001	129196	38570				
C24	8.438	0.003	110309	27375				
C25	8.718	0.004	124461	138394				
C26	8.986	0.002	125601	25098				
C28	9.502	-0.002	123745	24701				
C32	10.453	-0.001	106608	26586				
C34	10.888	-0.006	92582	96158				
Filter Peak	13.980	0.002	1255	629	BUNKERC	(C10-C38)	57922264	974.5
C36	11.365	-0.002	60078	14944				
C38	11.920	-0.001	33810	16797				
C40	12.621	-0.002	13754	6122				
o-terph	6.874	-0.014	10248875	9038602				
Triacon Surr	10.018	0.000	114806	28637	NAS DIES	(C10-C24)	37660081	199.6

Range Times: NW Diesel(4.571 - 8.436) AK102(3.60 - 8.71) Jet A(3.60 - 6.65)
NW M.Oil(8.44 - 11.92) AK103(8.71 - 11.37) OR Diesel(3.60 - 9.50)

Surrogate	Area	Amount
o-Terphenyl	9038602	44.4 M
Triacontane	28637	0.2

M Indicates the peak was manually integrated

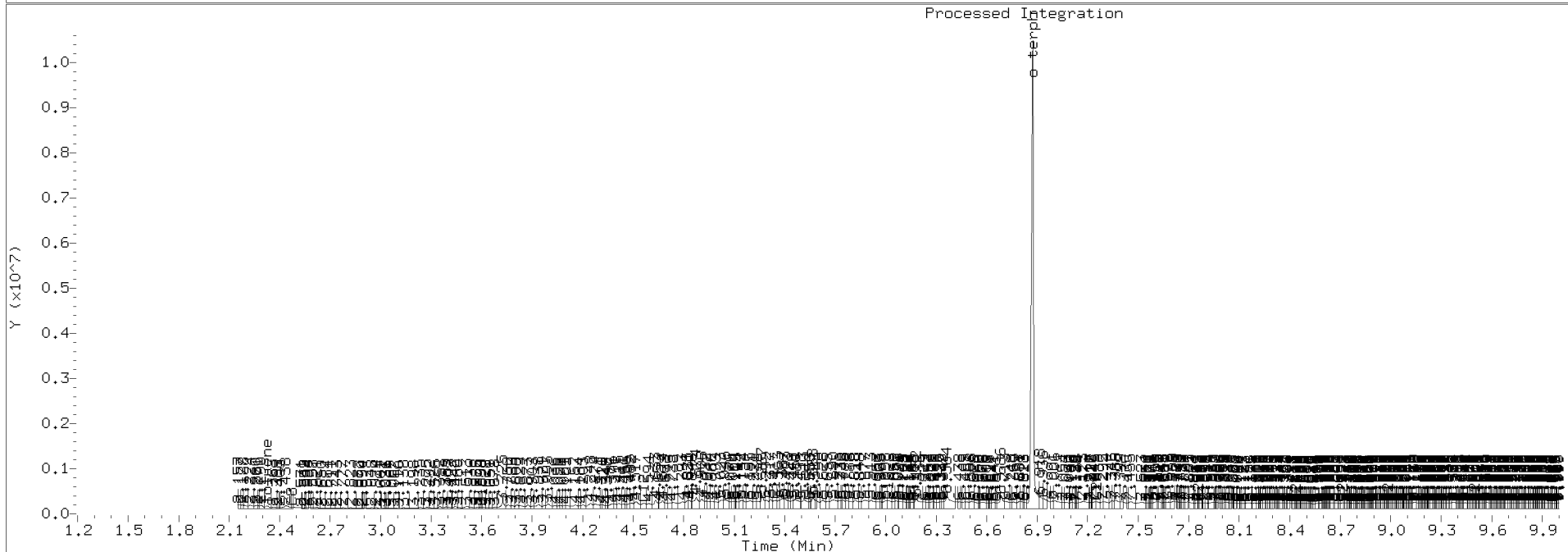
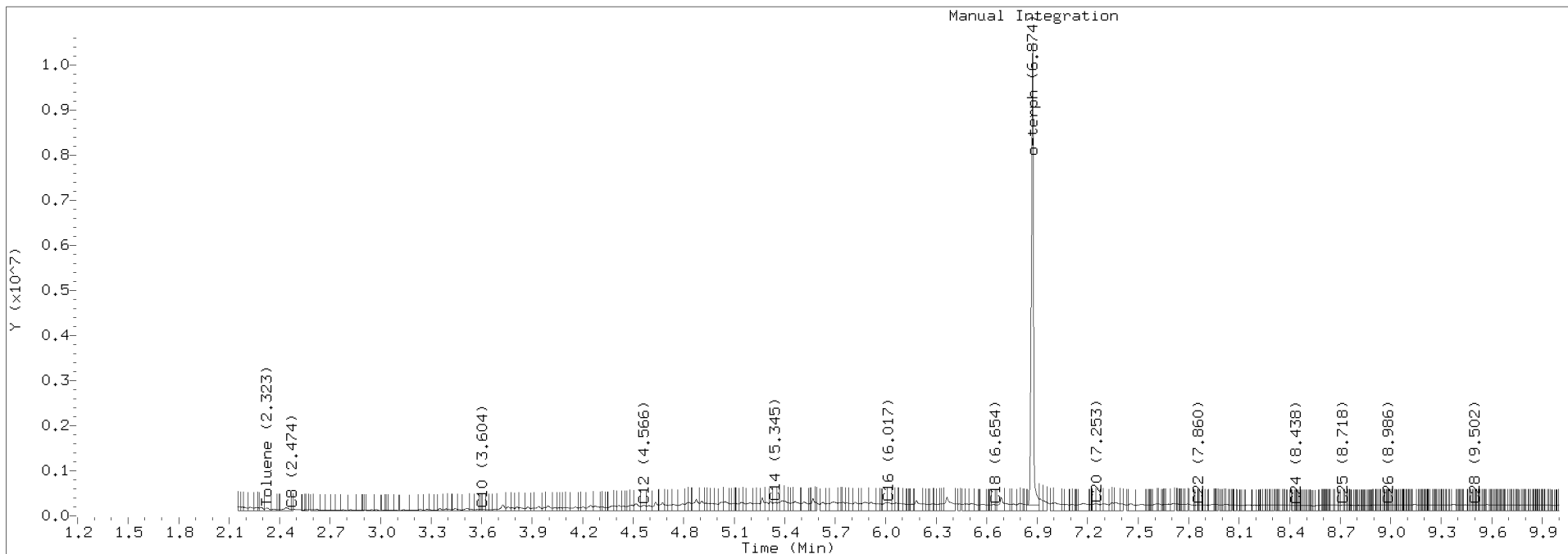
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022
Bunker C	59438.6	21-APR-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220421.b/422D2113.D Injection: 21-APR-2022 20:09

Lab ID:SEQ-ICV3





INITIAL CALIBRATION CHECK
NWTPH-Dx

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>FA00054</u>
Lab File ID:	<u>422G1205.D</u>	Calibration Date:	<u>01/31/2022</u>
Sequence:	<u>SKG0101</u>	Injection Date:	<u>07/12/22</u>
Lab Sample ID:	<u>SKG0101-ICV1</u>	Injection Time:	<u>10:00</u>
Sequence Name:	<u>DIESEL ICV</u>		

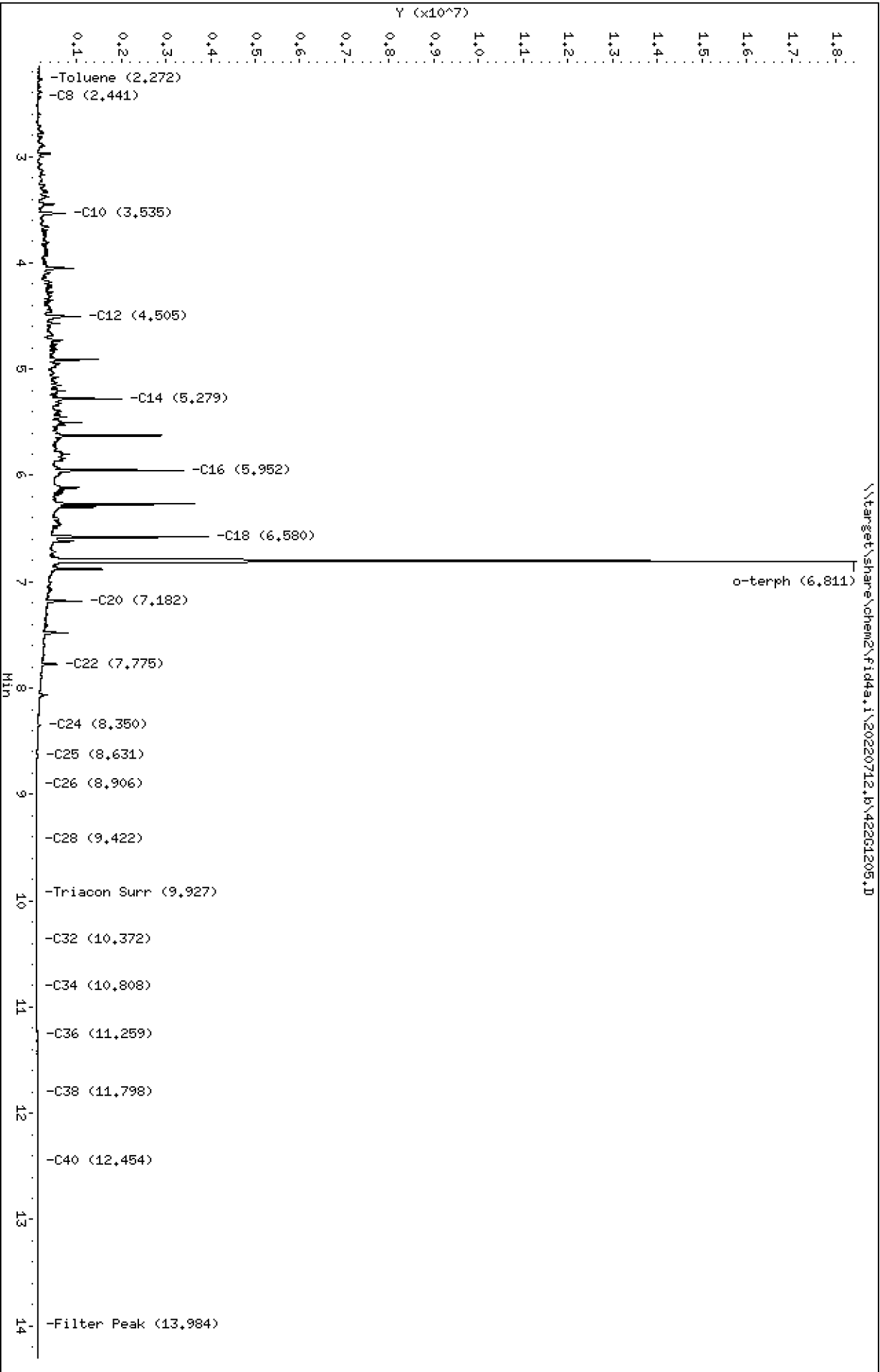
COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	531	158638.4000	168482.8000		6.2	+/-15
o-Terphenyl	A	90.000	96.6	203634.1000	218624.3000		7.3	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220712,8\42261205.D
Date: 12-JUL-2022 10:00
Client ID:
Sample Info: SEQ-ICV1

Column phase: RTX-1

Instrument: fid4a,1
Operator: AA/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1205.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/12/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-ICV1
Client ID:
Injection: 12-JUL-2022 10:00
Dilution Factor: 1
RT Std: 422G1203.D

FID:4A RESULTS

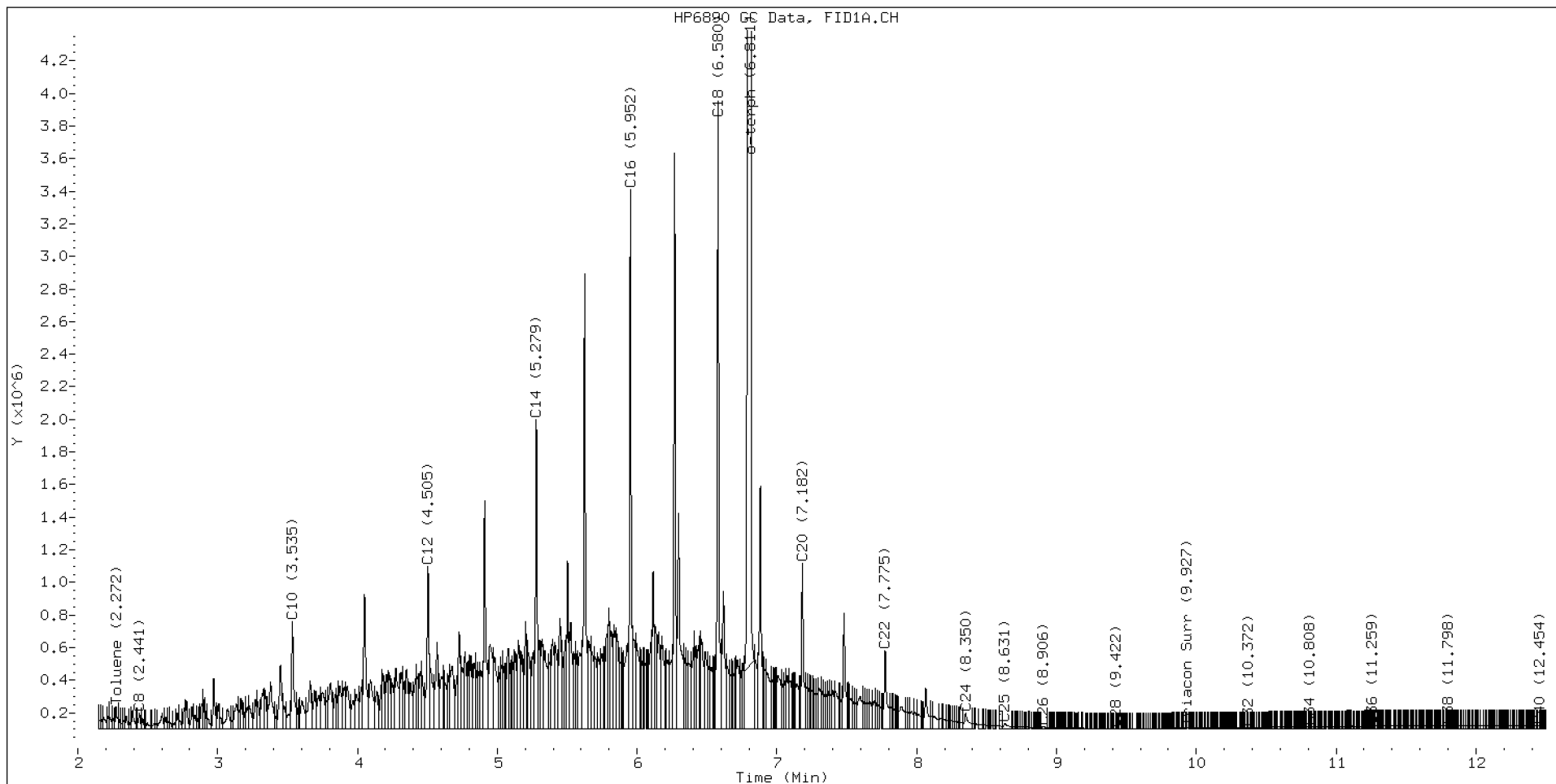
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.441	-0.004	91436	97356	WATPHD	(C12-C24)	84241409	531.0
C10	3.535	-0.004	654998	749253	WATPHM	(C24-C38)	1664601	12.6
C12	4.505	-0.002	996373	1088610	AK102	(C10-C25)	99088953	524.1
C14	5.279	-0.003	1894634	1630200	AK103	(C25-C36)	1020251	10.3
C16	5.952	-0.002	3308106	2641992	OR.DIES	(C10-C28)	99345354	523.6
C18	6.580	-0.002	3850523	3269303				
C20	7.182	-0.006	1016669	1048537	JET-A	(C10-C18)	77204024	445.8
C22	7.775	-0.007	475130	634735				
C24	8.350	-0.005	91688	177842				
C25	8.631	-0.001	30800	72450				
C26	8.906	0.003	10450	21787				
C28	9.422	0.002	661	256				
C32	10.372	0.003	6424	1279				
C34	10.808	0.003	12579	5566				
Filter Peak	13.984	0.001	17635	10542				
C36	11.259	-0.005	15702	8621				
C38	11.798	-0.002	17008	7620				
C40	12.454	-0.005	17803	6208				
o-terph	6.811	-0.001	17961186	19676188				
Triacon Surr	9.927	-0.006	3961	1559	NAS DIES	(C10-C24)	98942178	524.4

Range Times: NW Diesel(4.507 - 8.354) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	19676188	96.6 M
Triacontane	1559	0.0

M Indicates the peak was manually integrated

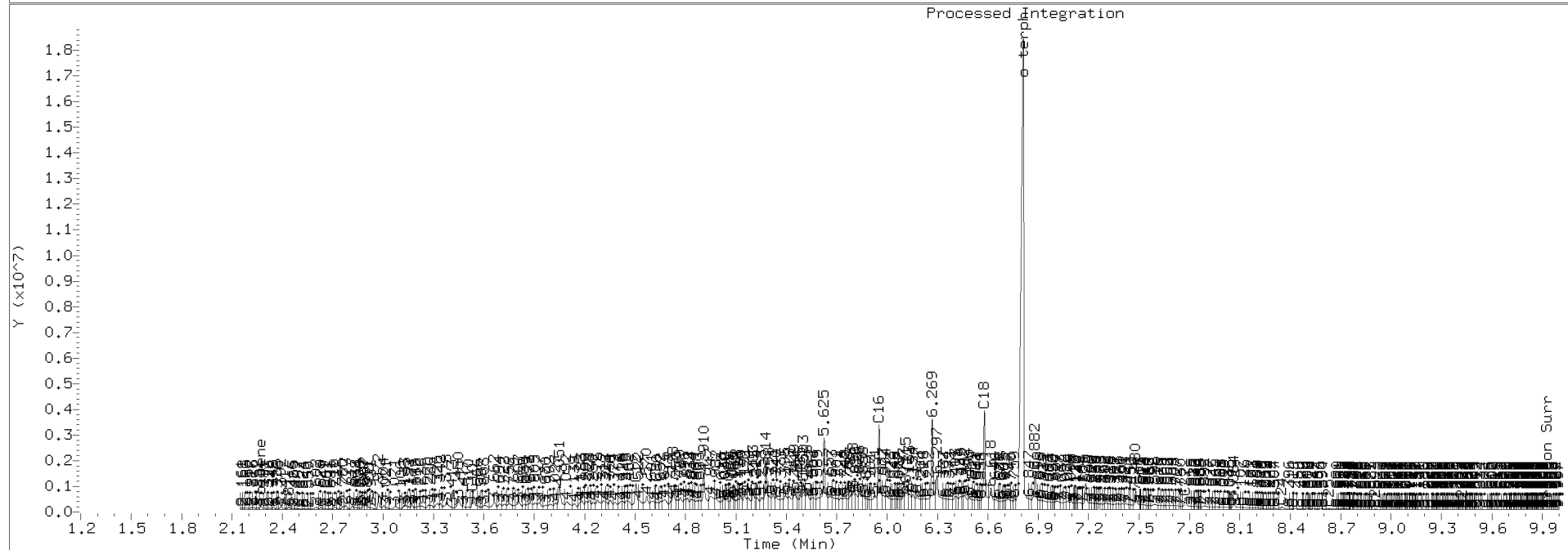
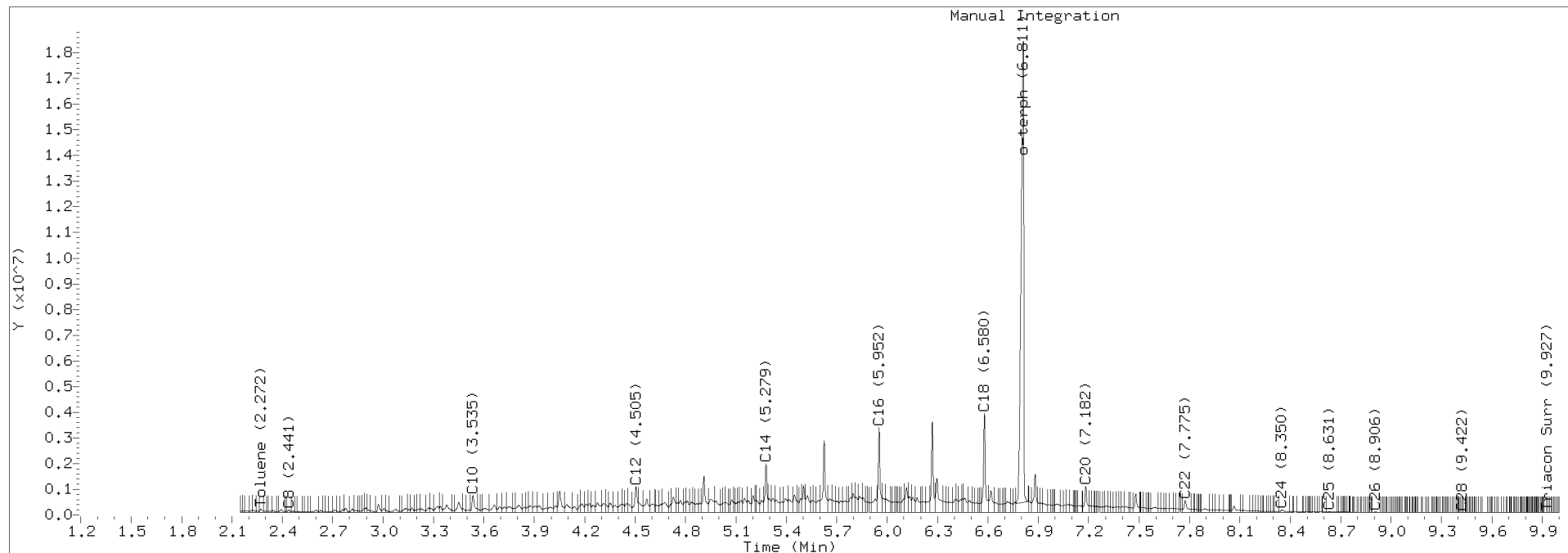
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1205.D Injection: 12-JUL-2022 10:00

Lab ID:SEQ-ICV1





Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK NWTPH-Dx

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>FA00054</u>
Lab File ID:	<u>422G1206.D</u>	Calibration Date:	<u>01/31/2022</u>
Sequence:	<u>SKG0101</u>	Injection Date:	<u>07/12/22</u>
Lab Sample ID:	<u>SKG0101-ICV2</u>	Injection Time:	<u>10:20</u>
Sequence Name:	<u>MOIL ICV</u>		

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Motor Oil Range Organics (C24-C38)	A	1000.0	888	132579.1000	117684.4000		-11.2	+/-15

* Values outside of QC limits

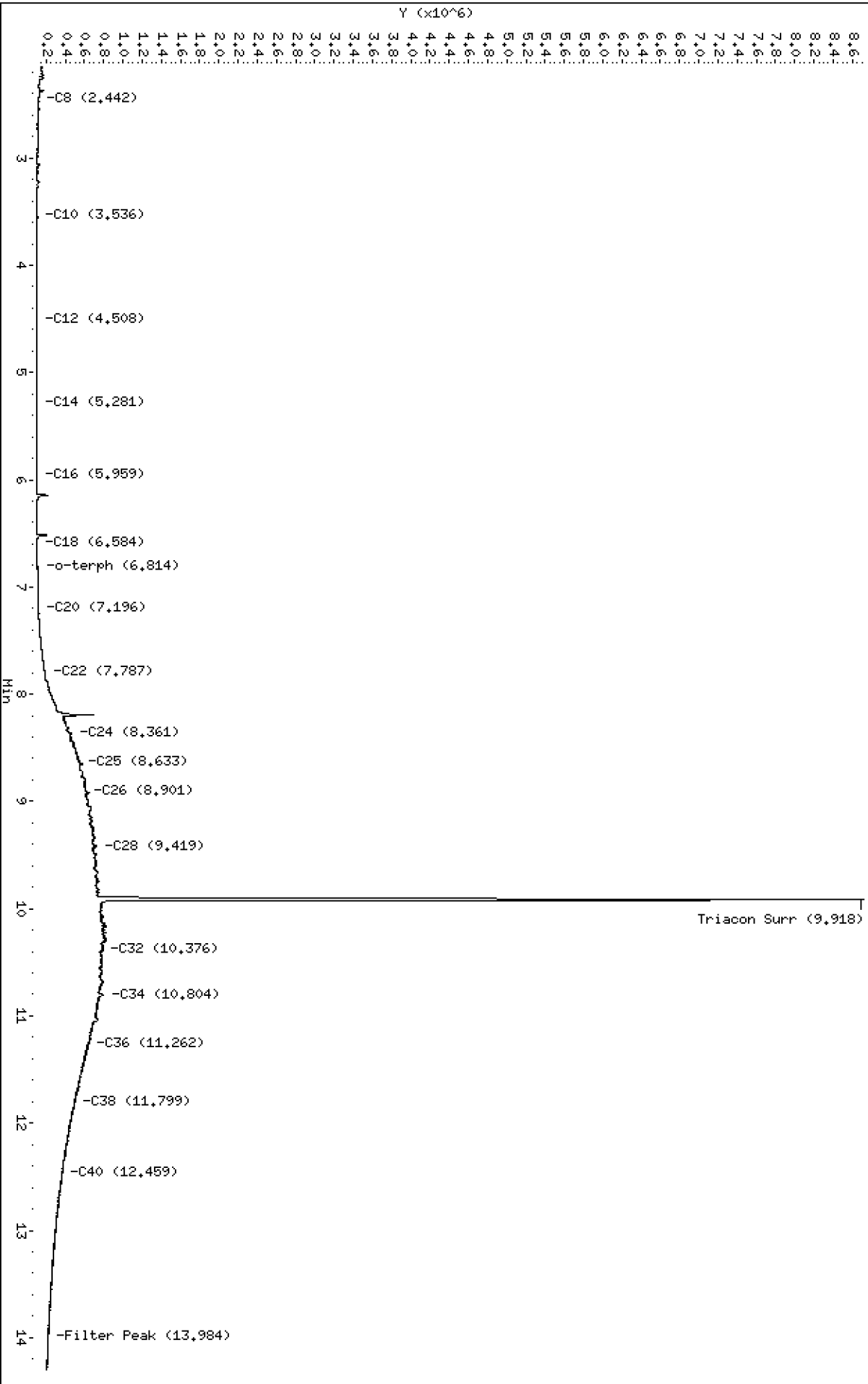
Data File: \\target\share\chem2\fid4a,1\20220712.16\42261206.D
Date: 12-JUL-2022 10:20
Client ID:
Sample Info: SEQ-ICV2

Instrument: fid4a,1

Column phase: RTX-1

Operator: AA/JGR
Column diameter: 0.25

\\target\share\chem2\fid4a,1\20220712.16\42261206.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1206.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/12/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-ICV2
Client ID:
Injection: 12-JUL-2022 10:20
Dilution Factor: 1
RT Std: 422G1203.D

FID:4A RESULTS

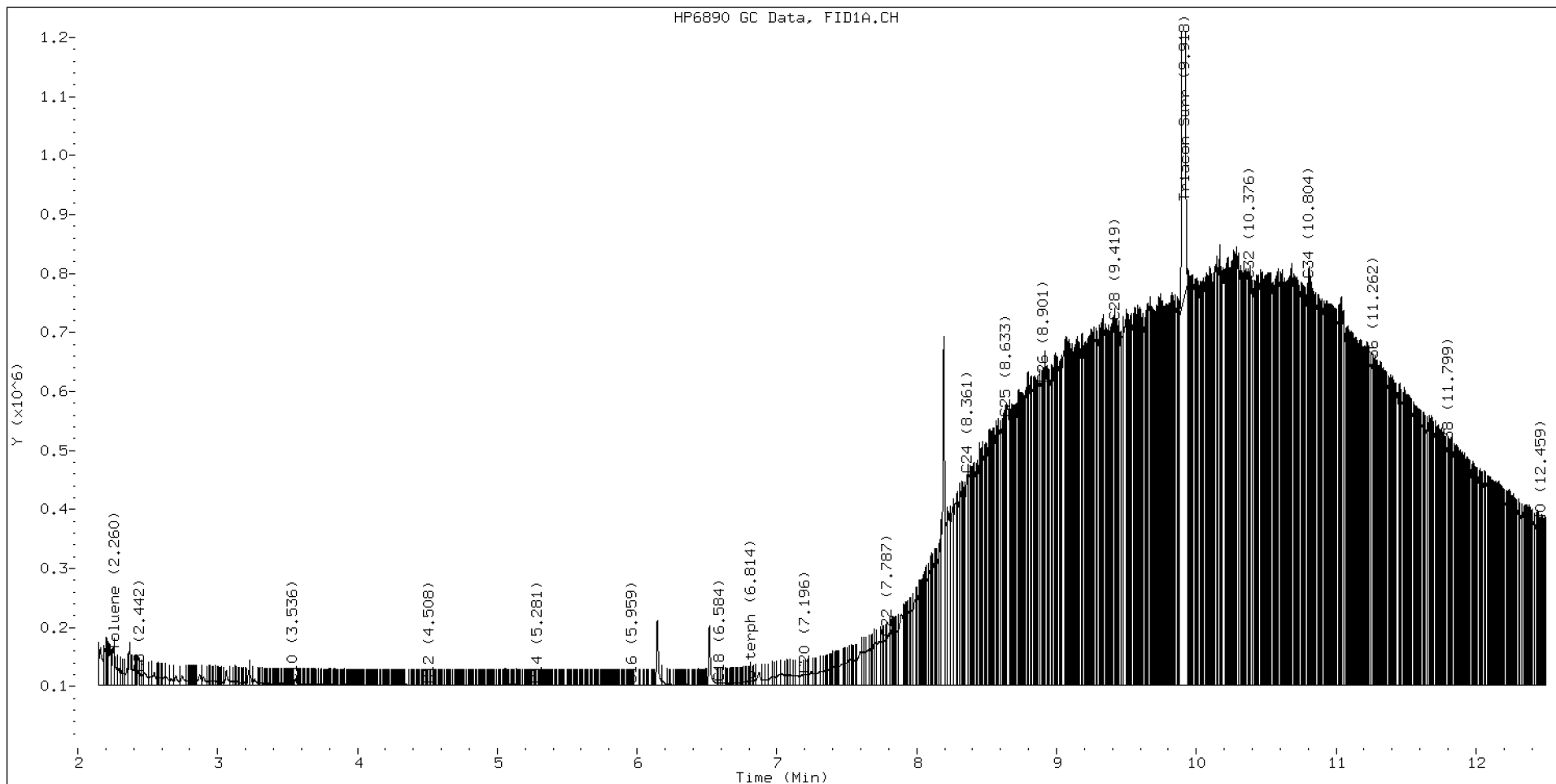
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.442	-0.003	20100	15799	WATPHD	(C12-C24)	9932583	62.6
C10	3.536	-0.003	2747	1315	WATPHM	(C24-C38)	117684379	887.7
C12	4.508	0.001	846	523	AK102	(C10-C25)	14142765	74.8
C14	5.281	-0.001	935	655	AK103	(C25-C36)	99062134	1001.5
C16	5.959	0.005	529	169	OR.DIES	(C10-C28)	42637738	224.7
C18	6.584	0.002	3803	2625				
C20	7.196	0.007	18806	15518	JET-A	(C10-C18)	408683	2.4
C22	7.787	0.005	81057	63674				
C24	8.361	0.007	357917	409873				
C25	8.633	0.001	451783	201205				
C26	8.901	-0.002	511194	178526				
C28	9.419	-0.002	615932	333852				
C32	10.376	0.007	686681	341767				
C34	10.804	-0.001	687579	411468				
Filter Peak	13.984	0.001	118836	29595				
C36	11.262	-0.003	536304	213671				
C38	11.799	-0.002	397077	79245				
C40	12.459	-0.000	259316	38863				
o-terph	6.814	0.002	7230	6053				
Triacon Surr	9.918	-0.016	7957485	7628749	NAS DIES	(C10-C24)	10030690	53.2

Range Times: NW Diesel(4.507 - 8.354) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	6053	0.0
Triacontane	7628749	43.8 M

M Indicates the peak was manually integrated

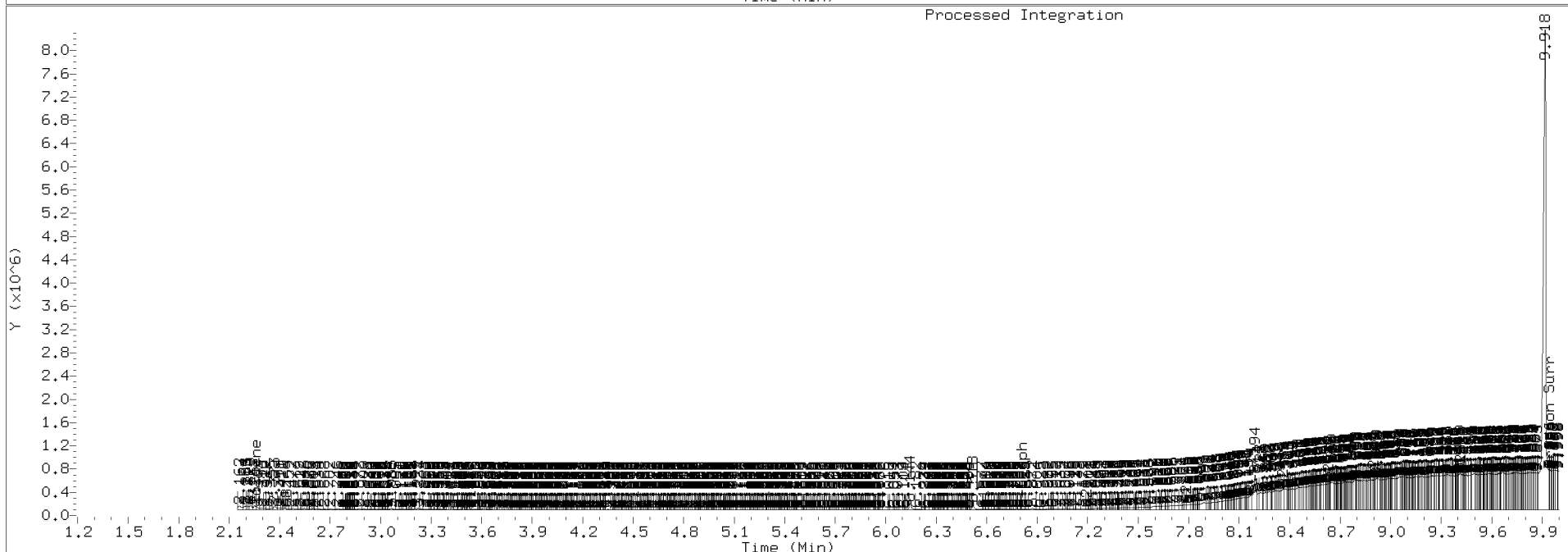
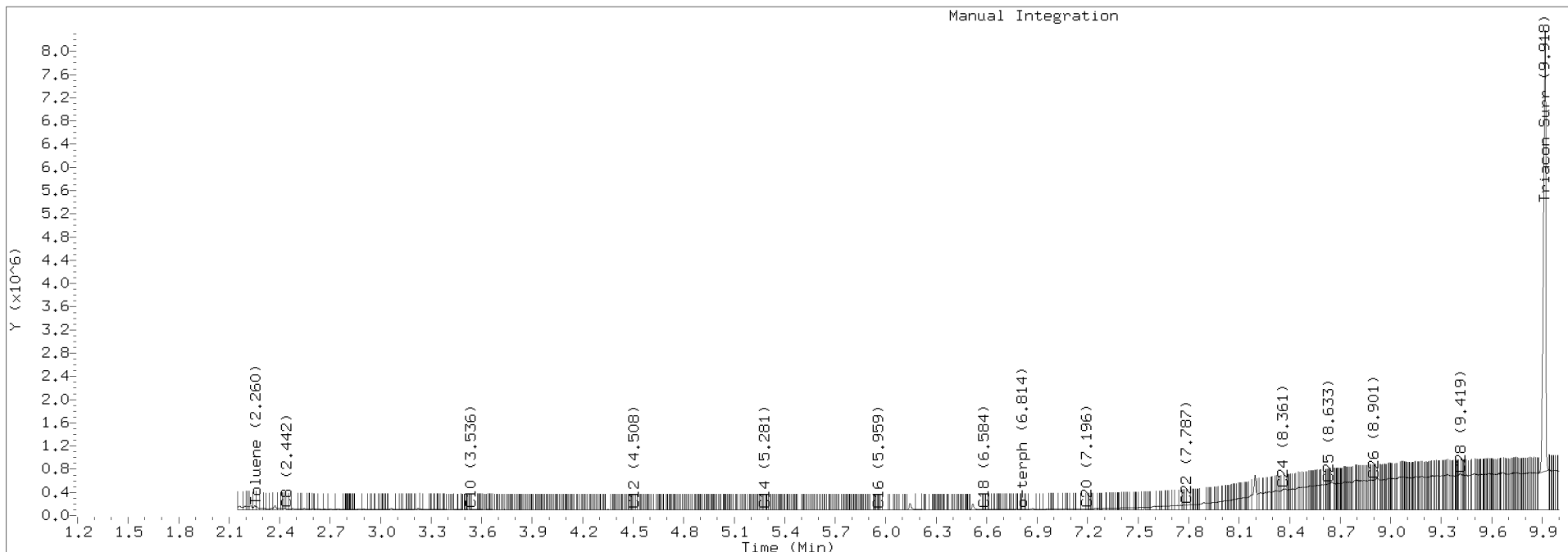
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1206.D Injection: 12-JUL-2022 10:20

Lab ID:SEQ-ICV2





INITIAL CALIBRATION CHECK
NWTPH-Dx

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>FA00054</u>
Lab File ID:	<u>422G1225.D</u>	Calibration Date:	<u>01/31/2022</u>
Sequence:	<u>SKG0126</u>	Injection Date:	<u>07/12/22</u>
Lab Sample ID:	<u>SKG0126-ICV1</u>	Injection Time:	<u>19:18</u>
Sequence Name:	<u>DIESEL ICV</u>		

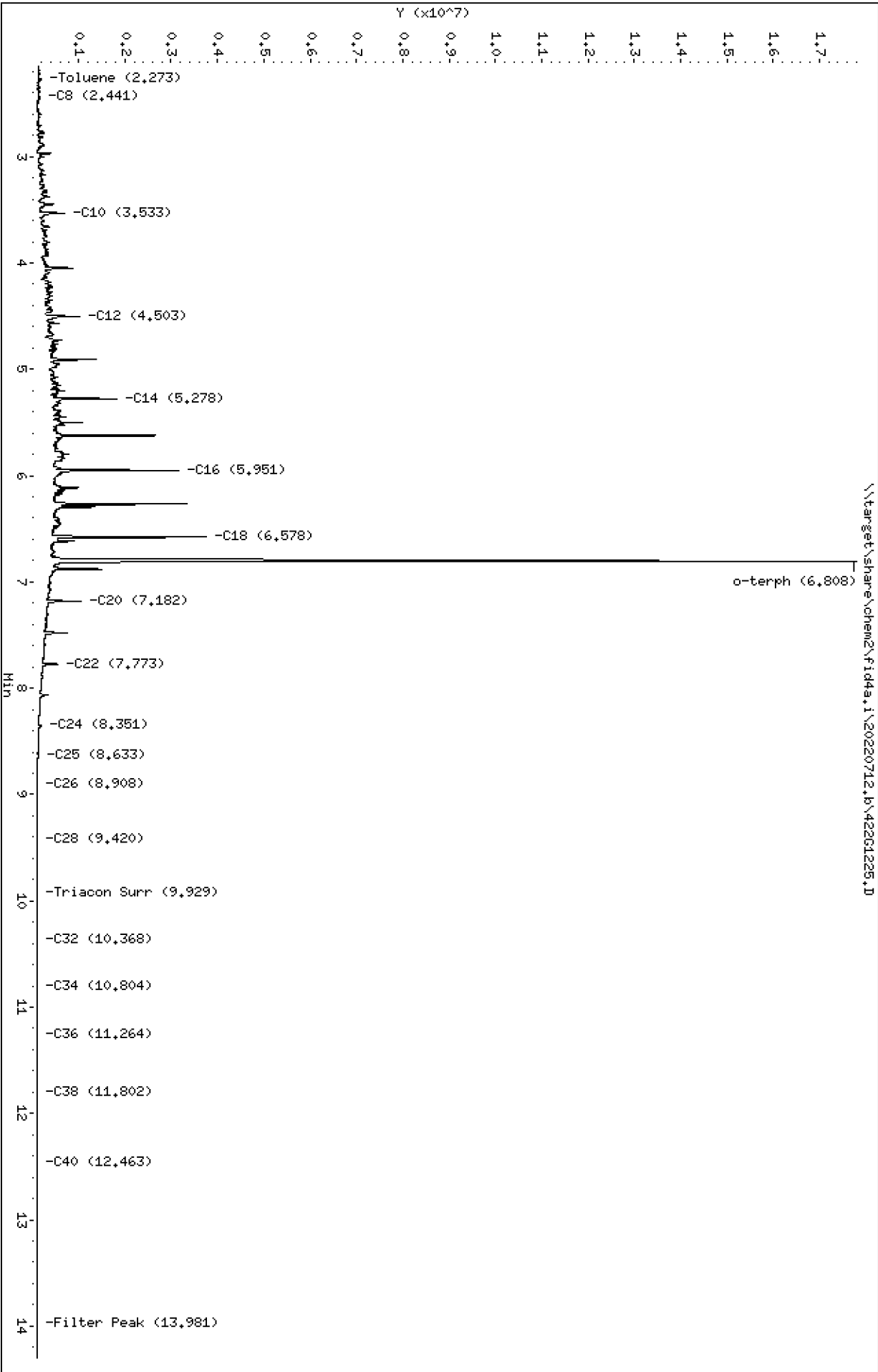
COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	500	158638.4000	158565.9000		-0.04	+/-15
o-Terphenyl	A	90.000	91.1	203634.1000	206167.2000		1.2	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220712,8\42261225.D
Date: 12-JUL-2022 19:18
Client ID:
Sample Info: SEQ-ICV1

Column phase: RTX-1

Instrument: fid4a,1
Operator: AA/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1225.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/13/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-ICV1
Client ID:
Injection: 12-JUL-2022 19:18
Dilution Factor: 1
RT Std: 422G1223.D

FID:4A RESULTS

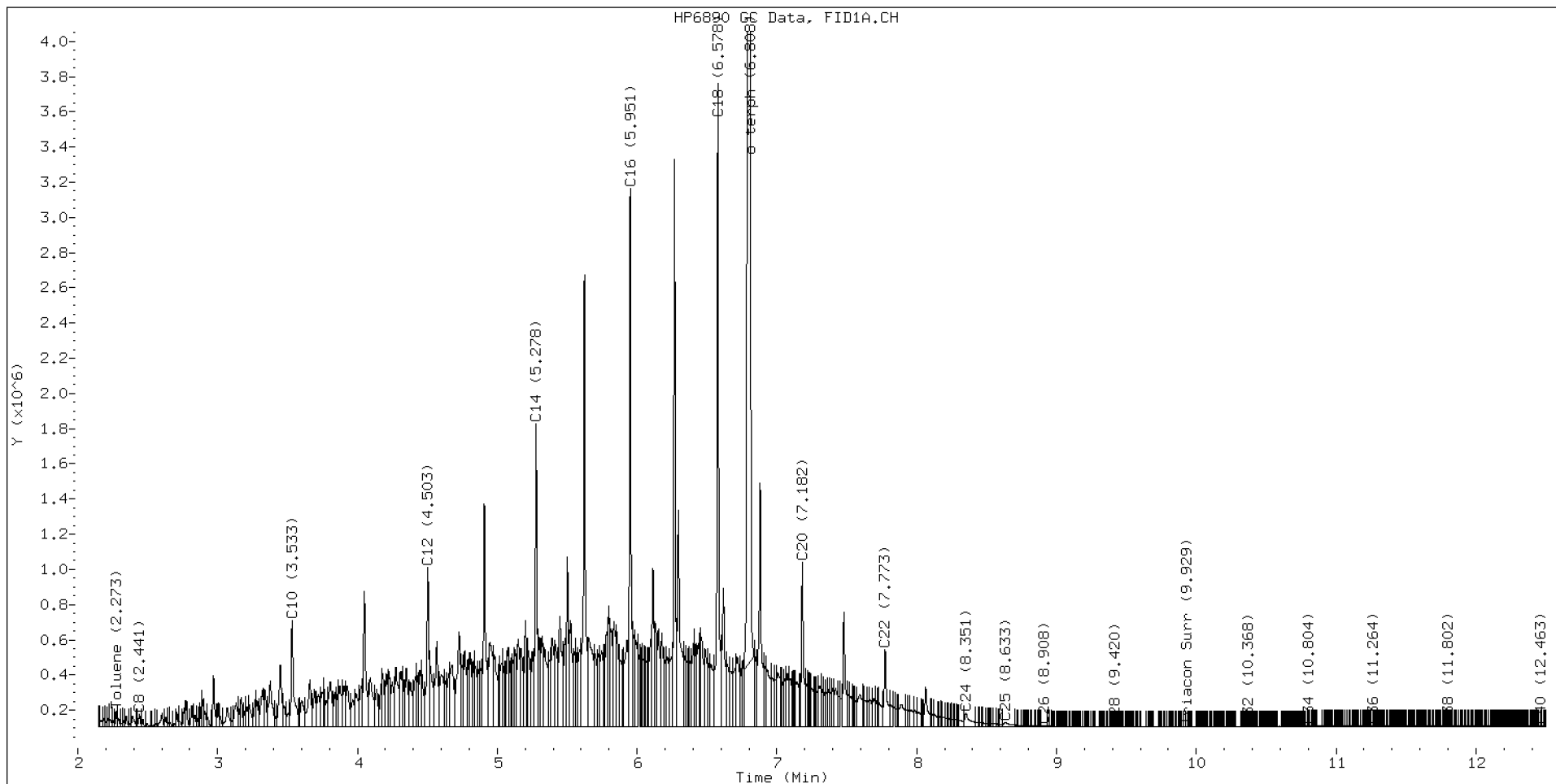
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.441	-0.006	71950	67712	WATPHD	(C12-C24)	79282956	499.8
C10	3.533	-0.005	602682	765928	WATPHM	(C24-C38)	1115516	8.4
C12	4.503	-0.002	908487	1008288	AK102	(C10-C25)	92733936	490.5
C14	5.278	-0.003	1721986	1534488	AK103	(C25-C36)	643143	6.5
C16	5.951	-0.003	3059626	2499323	OR.DIES	(C10-C28)	93040515	490.4
C18	6.578	-0.002	3655181	3185326				
C20	7.182	-0.006	938274	978866	JET-A	(C10-C18)	71855685	414.9
C22	7.773	-0.006	439911	582651				
C24	8.351	-0.002	79941	211539				
C25	8.633	0.003	28279	87387				
C26	8.908	0.006	10428	23776				
C28	9.420	0.000	828	256				
C32	10.368	-0.002	2002	684				
C34	10.804	-0.001	5380	2119				
Filter Peak	13.981	0.001	9073	4485				
C36	11.264	-0.001	7254	2500				
C38	11.802	0.002	8700	1303				
C40	12.463	0.000	8822	1758				
o-terph	6.808	-0.002	17328784	18555050				
Triacon Surr	9.929	-0.003	1769	1080	NAS DIES	(C10-C24)	92521641	490.4

Range Times: NW Diesel(4.506 - 8.353) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	18555050	91.1 M
Triacontane	1080	0.0

M Indicates the peak was manually integrated

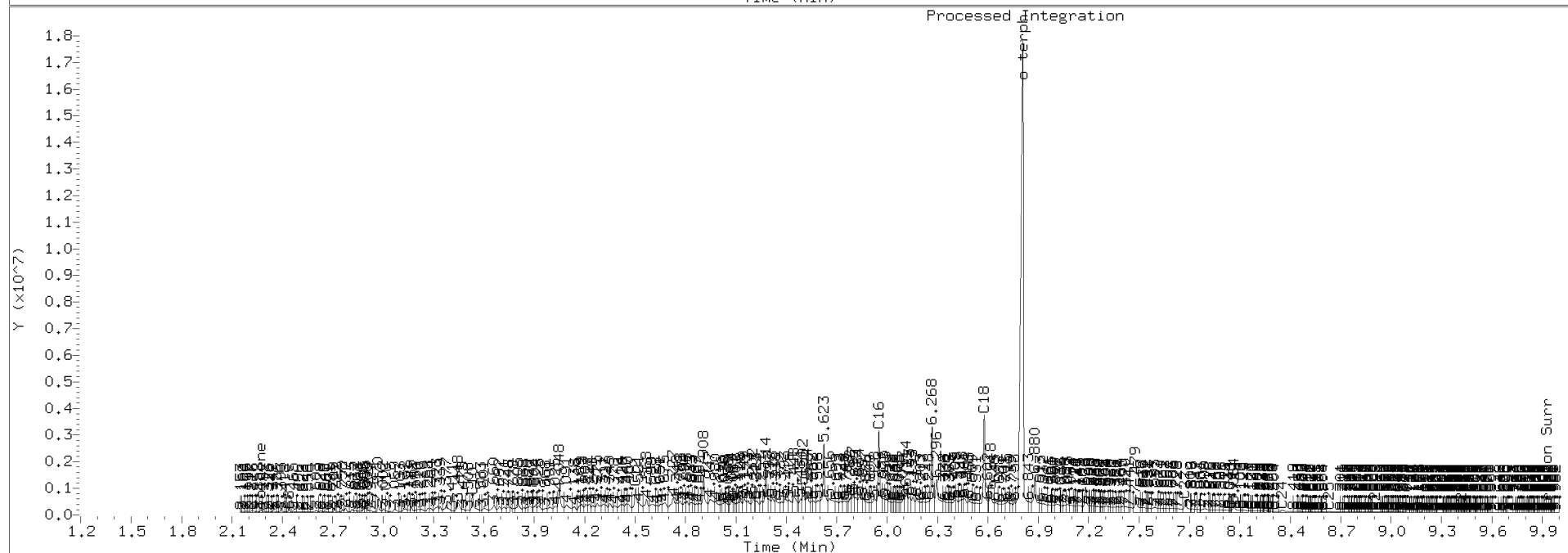
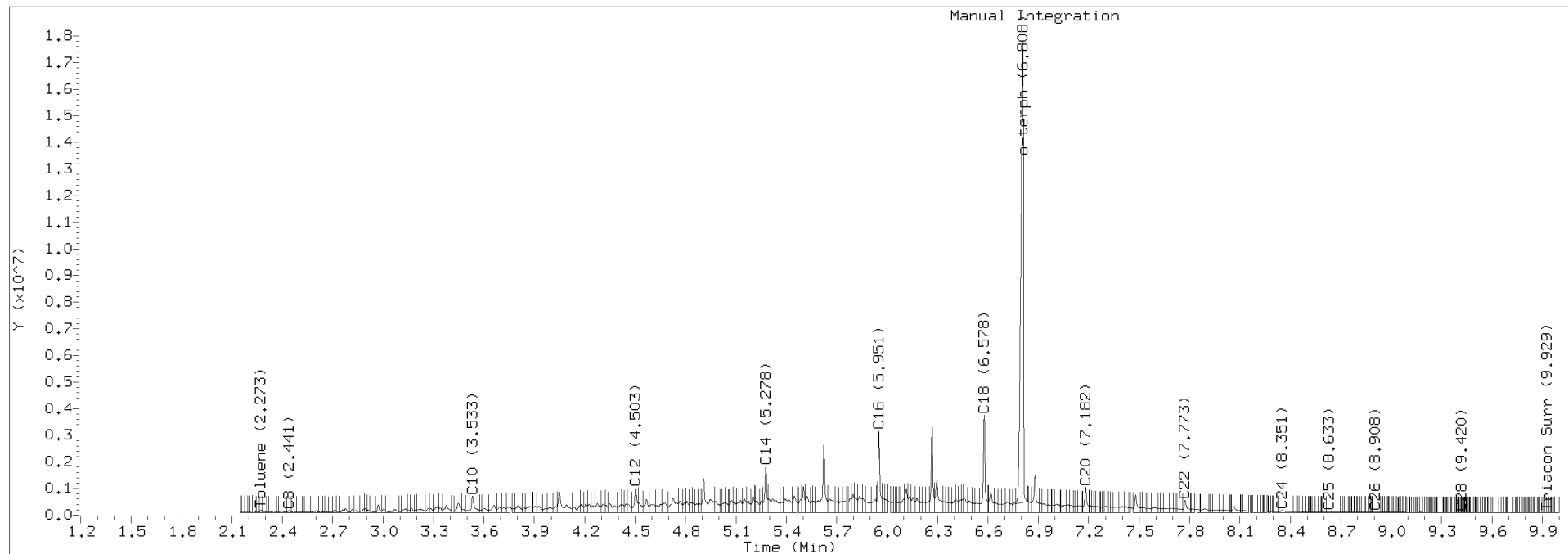
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1225.D Injection: 12-JUL-2022 19:18

Lab ID:SEQ-ICV1





INITIAL CALIBRATION CHECK
NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: FID4

Calibration: FA00054

Lab File ID: 422G1226.D

Calibration Date: 01/31/2022

Sequence: SKG0126

Injection Date: 07/12/22

Lab Sample ID: SKG0126-ICV2

Injection Time: 19:38

Sequence Name: MOIL ICV

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Motor Oil Range Organics (C24-C38)	A	1000.0	865	132579.1000	114654.9000		-13.5	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220712.b\42261226.D
Date: 12-JUL-2022 19:38

Client ID:

Sample Info: SEQ-ICV2

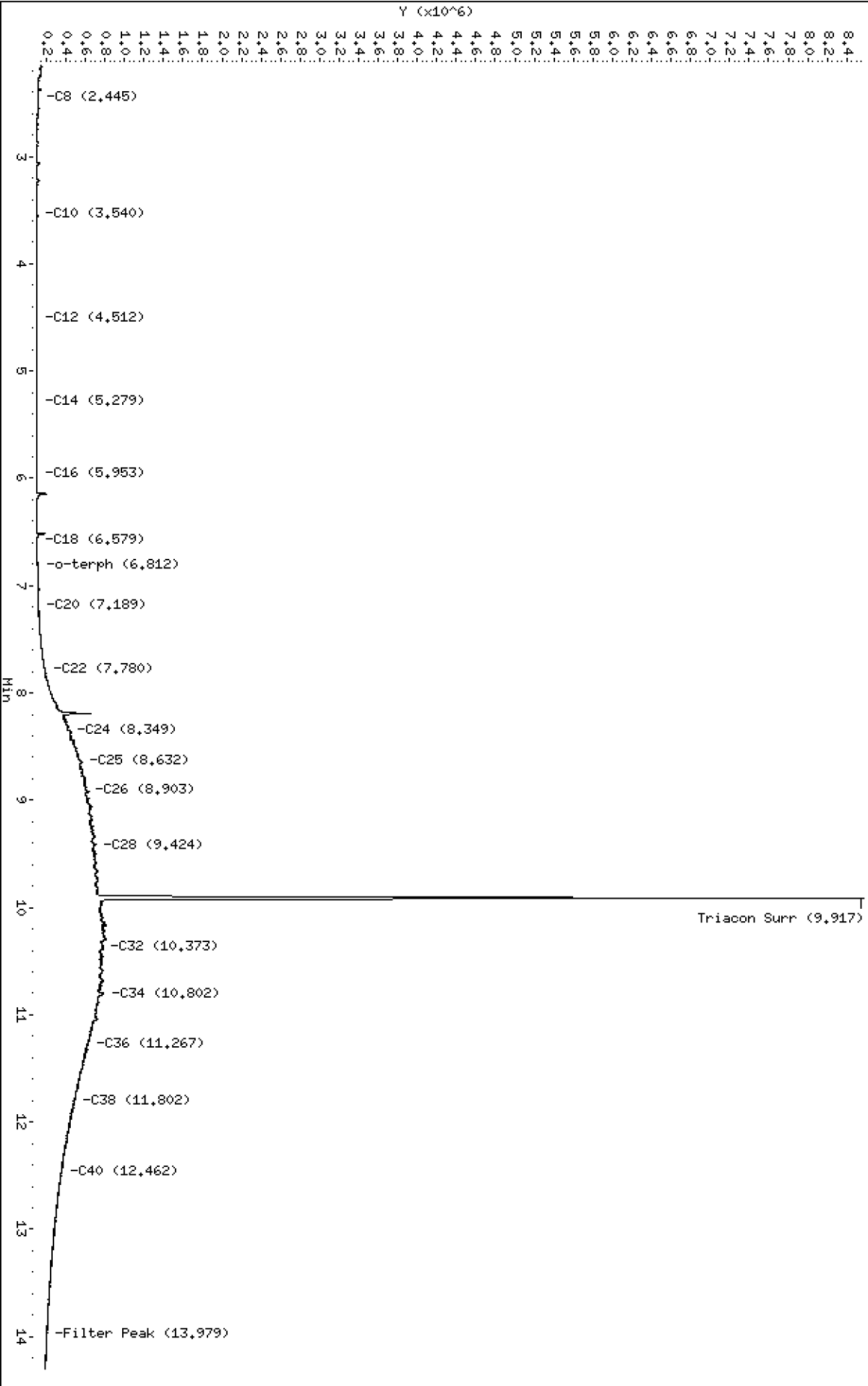
Column phase: RTX-1

Instrument: fid4a,1

Operator: AA/JGR

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20220712.b\42261226.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1226.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/13/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-ICV2
Client ID:
Injection: 12-JUL-2022 19:38
Dilution Factor: 1
RT Std: 422G1223.D

FID:4A RESULTS

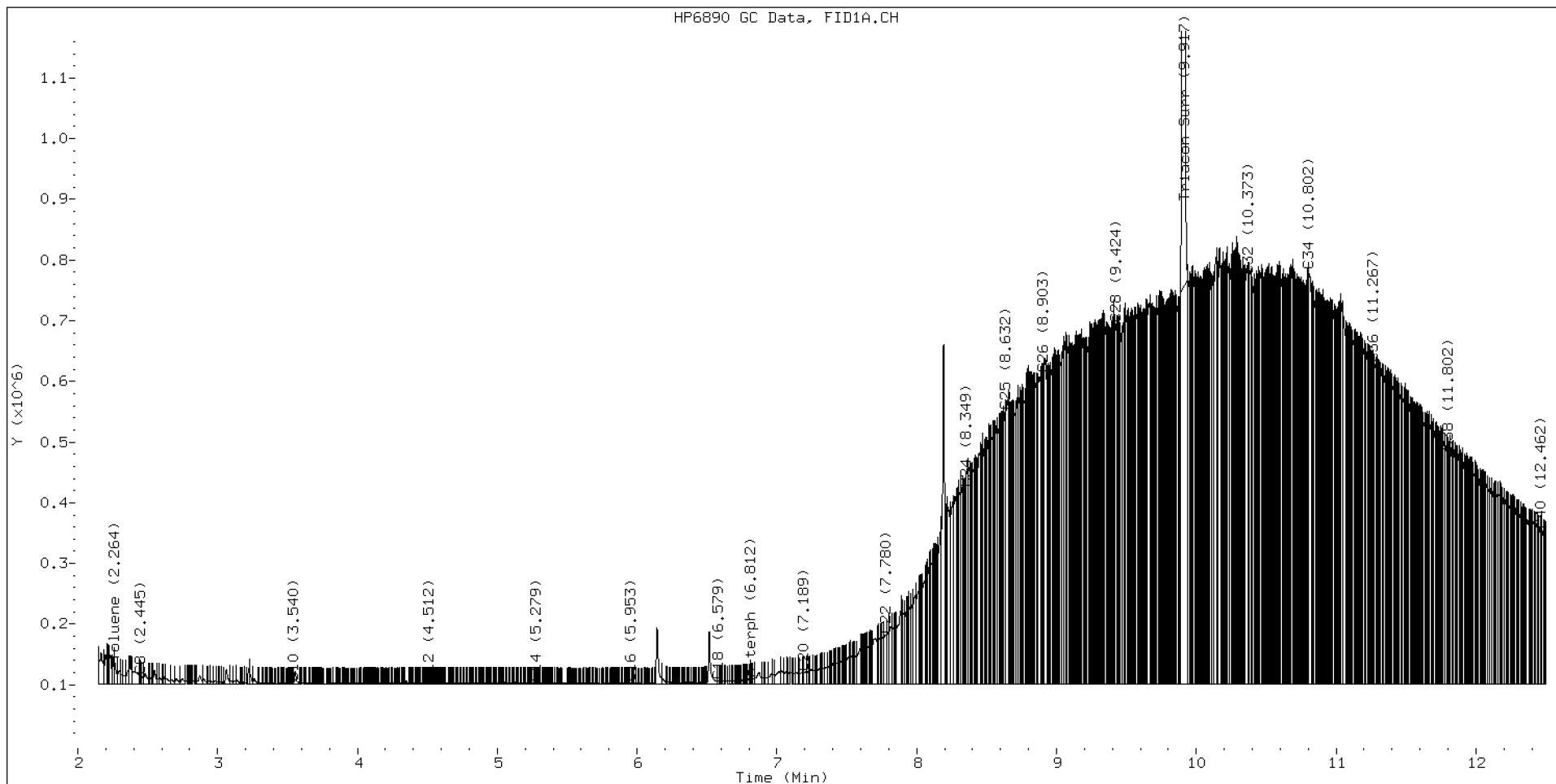
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.445	-0.002	13704	9608	WATPHD	(C12-C24)	10058895	63.4
C10	3.540	0.002	758	280	WATPHM	(C24-C38)	114654942	864.8
C12	4.512	0.006	691	259	AK102	(C10-C25)	14025593	74.2
C14	5.279	-0.002	965	262	AK103	(C25-C36)	96803372	978.7
C16	5.953	-0.001	621	242	OR.DIES	(C10-C28)	41548109	219.0
C18	6.579	-0.002	4275	2831				
C20	7.189	0.002	18219	5421	JET-A	(C10-C18)	352000	2.0
C22	7.780	-0.000	80059	74904				
C24	8.349	-0.004	322475	159404				
C25	8.632	0.001	448344	353122				
C26	8.903	0.002	510053	228461				
C28	9.424	0.004	593529	352466				
C32	10.373	0.003	672303	201247				
C34	10.802	-0.003	681351	336597				
Filter Peak	13.979	-0.001	103849	66920				
C36	11.267	0.002	528202	288907				
C38	11.802	0.002	381587	151562				
C40	12.462	-0.000	252665	50384				
o-terph	6.812	0.002	7574	2598				
Triacon Surr	9.917	-0.016	7815712	7458184	NAS DIES	(C10-C24)	10107470	53.6

Range Times: NW Diesel(4.506 - 8.353) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	2598	0.0
Triacontane	7458184	42.8 M

M Indicates the peak was manually integrated

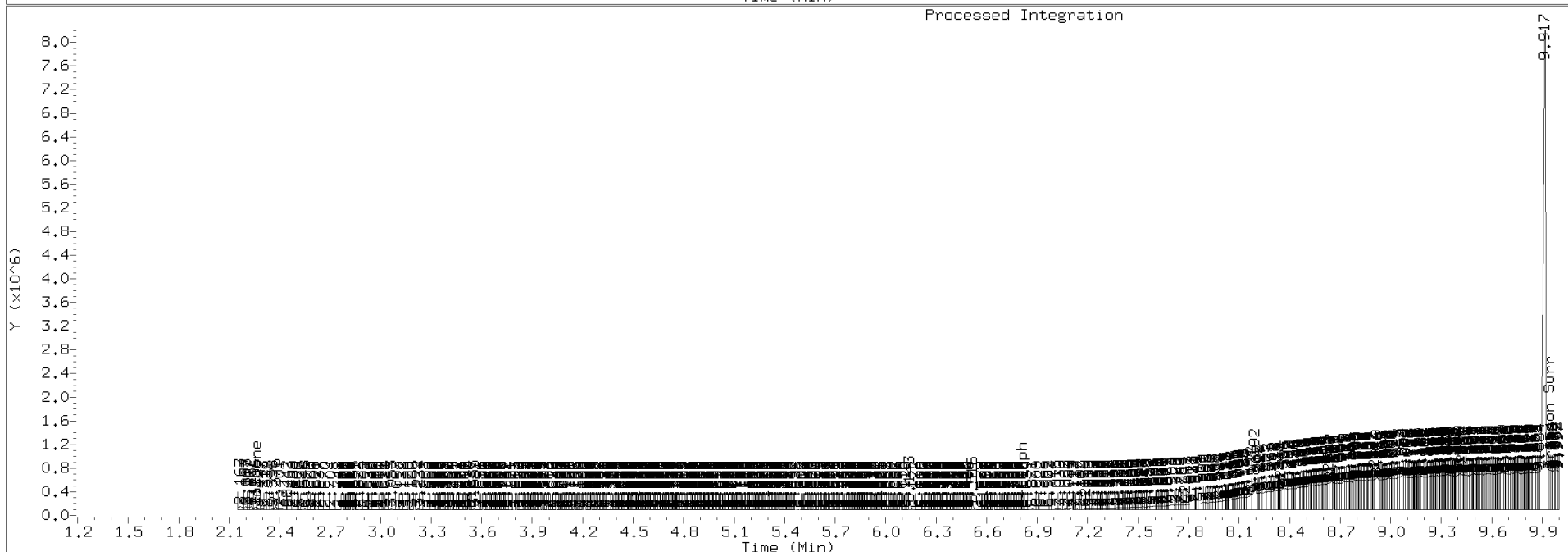
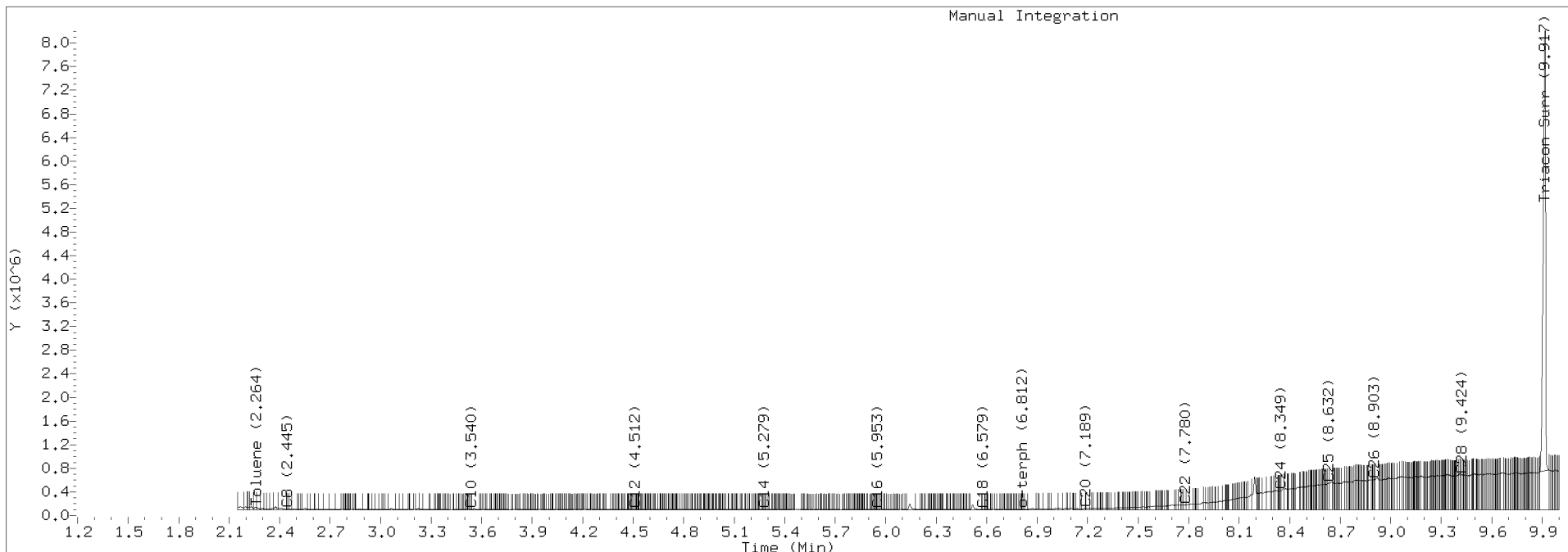
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1226.D Injection: 12-JUL-2022 19:38

Lab ID:SEQ-ICV2





Analytical Resources, LLC
Analytical Chemists and Consultants

**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
NWTPH-Dx**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>FA00054</u>
Lab File ID:	<u>422A2011.D</u>	Calibration Date:	<u>01/31/2022</u>
Sequence:	<u>SKA0208</u>	Injection Date:	<u>01/20/22</u>
Lab Sample ID:	<u>SKA0208-SCV1</u>	Injection Time:	<u>13:50</u>
Sequence Name:	<u>DIESEL SCV</u>		

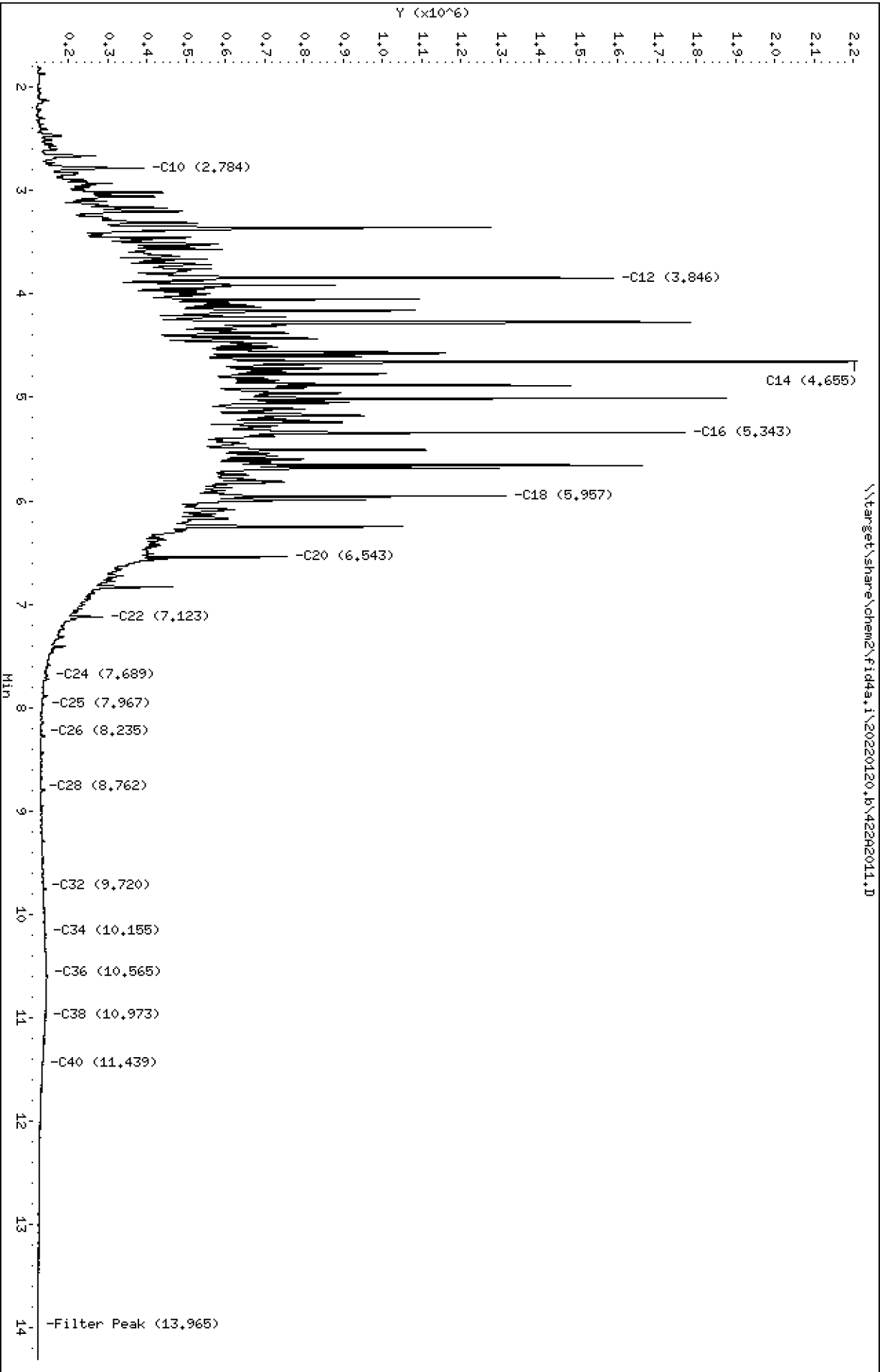
COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	579	158638.4	183584		15.7	+/-30

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220120_b\42282011.D
Date: 20-JAN-2022 13:50
Client ID:
Sample Info: SKR0208-SCW1

Column phase: RTX-1

Instrument: fid4a,1
Operator: WLB
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220120.b/422A2011.D
Method: 20220120.b\FID4TPH.m
Instrument: fid4a.i, VLB
Report Date: 02/09/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SKA0208-SCV1
Client ID:
Injection: 20-JAN-2022 13:50
Dilution Factor: 1
RT Std: 422A2003.D

FID:4A RESULTS

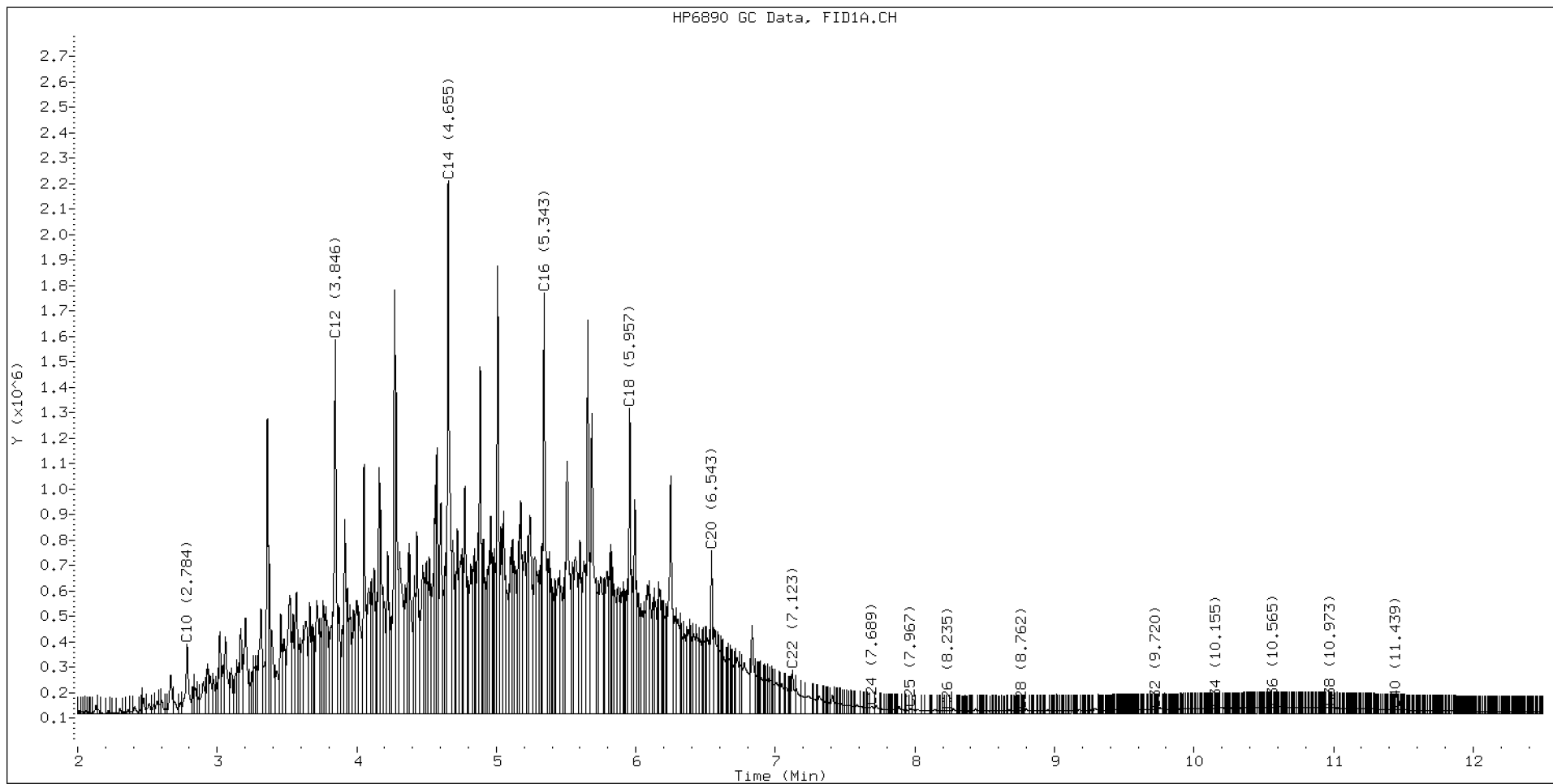
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.544	0.001	18500	21377	WATPHD	(C12-C24)	91791980	578.6
C10	2.784	-0.003	274520	418072	WATPHM	(C24-C38)	3249567	24.5
C12	3.846	-0.002	1470041	1730655	AK102	(C10-C25)	109259392	577.9
C14	4.655	-0.002	2091691	2520186	AK103	(C25-C36)	2486512	25.1
C16	5.343	-0.002	1652289	1980684	OR.DIES	(C10-C28)	109898714	579.2
C18	5.957	-0.005	1198312	1177531				
C20	6.543	-0.006	639233	695730				
C22	7.123	-0.007	169547	241250				
C24	7.689	-0.007	28257	52637				
C25	7.967	-0.007	19233	25038				
C26	8.235	-0.009	12361	12259				
C28	8.762	-0.002	11738	2920				
C32	9.720	0.003	17524	10151				
C34	10.155	0.000	21103	7290				
Filter Peak	13.965	0.003	4638	1151				
C36	10.565	-0.003	24473	16973				
C38	10.973	-0.002	22520	6721				
C40	11.439	0.001	15551	3097				
o-terph	----							
Triacon Surr	----				NAS DIES	(C10-C24)	109074547	578.1

Range Times: NW Diesel(3.848 - 7.697) AK102(2.79 - 7.97) Jet A(2.79 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.79 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	0	0.0
Triacontane	0	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022





Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
NWTPH-Dx

Laboratory: Analytical Resources, LLC SDG: 22G0121
Client: GeoEngineers Project: RG Haley Site-Bellingham
Instrument ID: FID4 Calibration: FA00054
Lab File ID: 422C0323.D Calibration Date: 01/31/2022
Sequence: SKC0073 Injection Date: 03/03/22
Lab Sample ID: SKC0073-CCV1 Injection Time: 16:12
Sequence Name: DIESEL CCV

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	474	158638.4	150447.9		-5.2	+/-15
o-Terphenyl	A	90.000	86.9	203634.1	196586.8		-3.4	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220303,b\42200323.D

Date: 03-MAR-2022 16:12

Client ID:

Sample Info: SEQ-CCV1

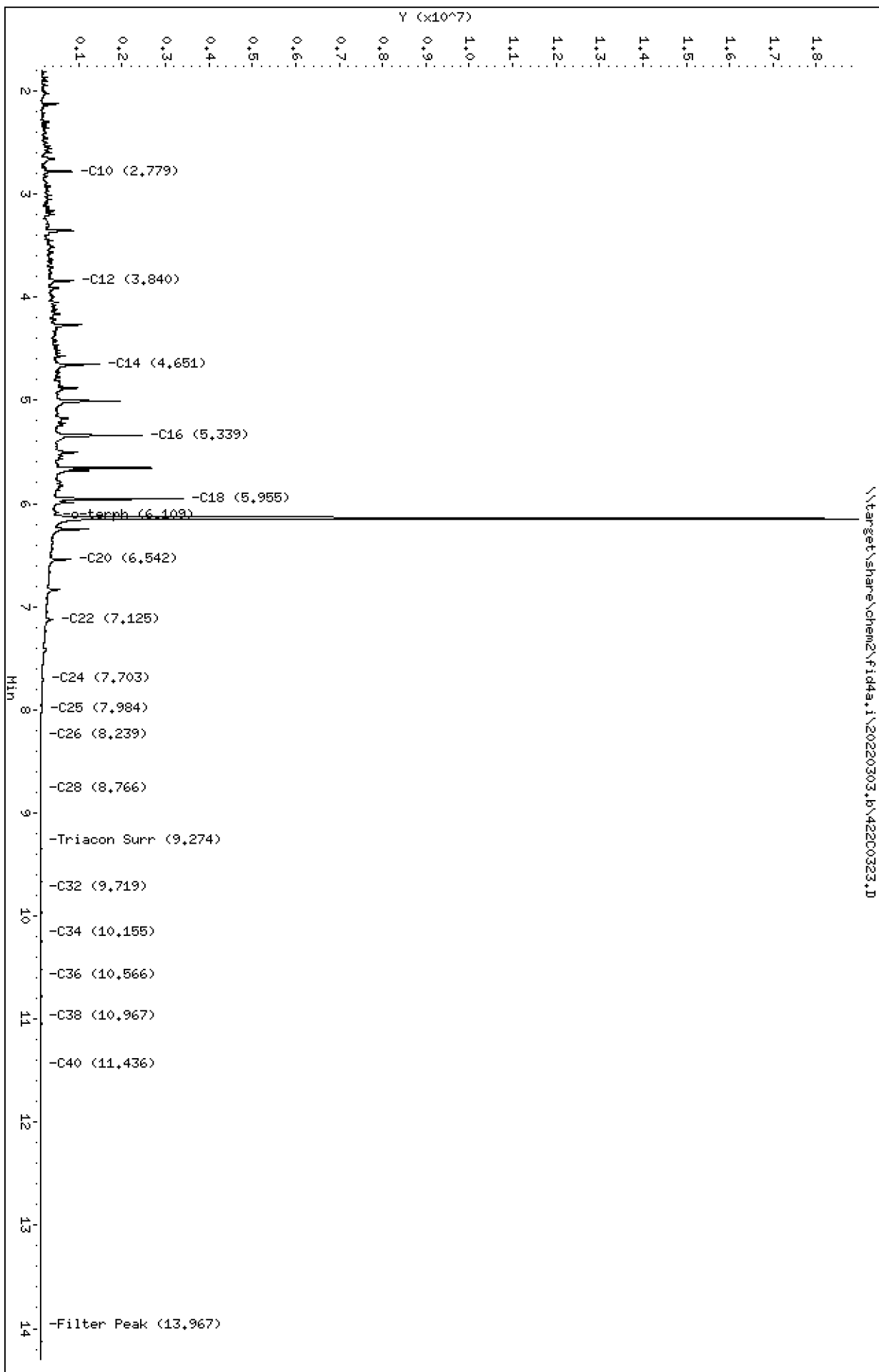
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220303.b/422C0323.D
Method: 20220303.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 03/04/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-CCV1
Client ID:
Injection: 03-MAR-2022 16:12
Dilution Factor: 1
RT Std: 422C0303.D

FID:4A RESULTS

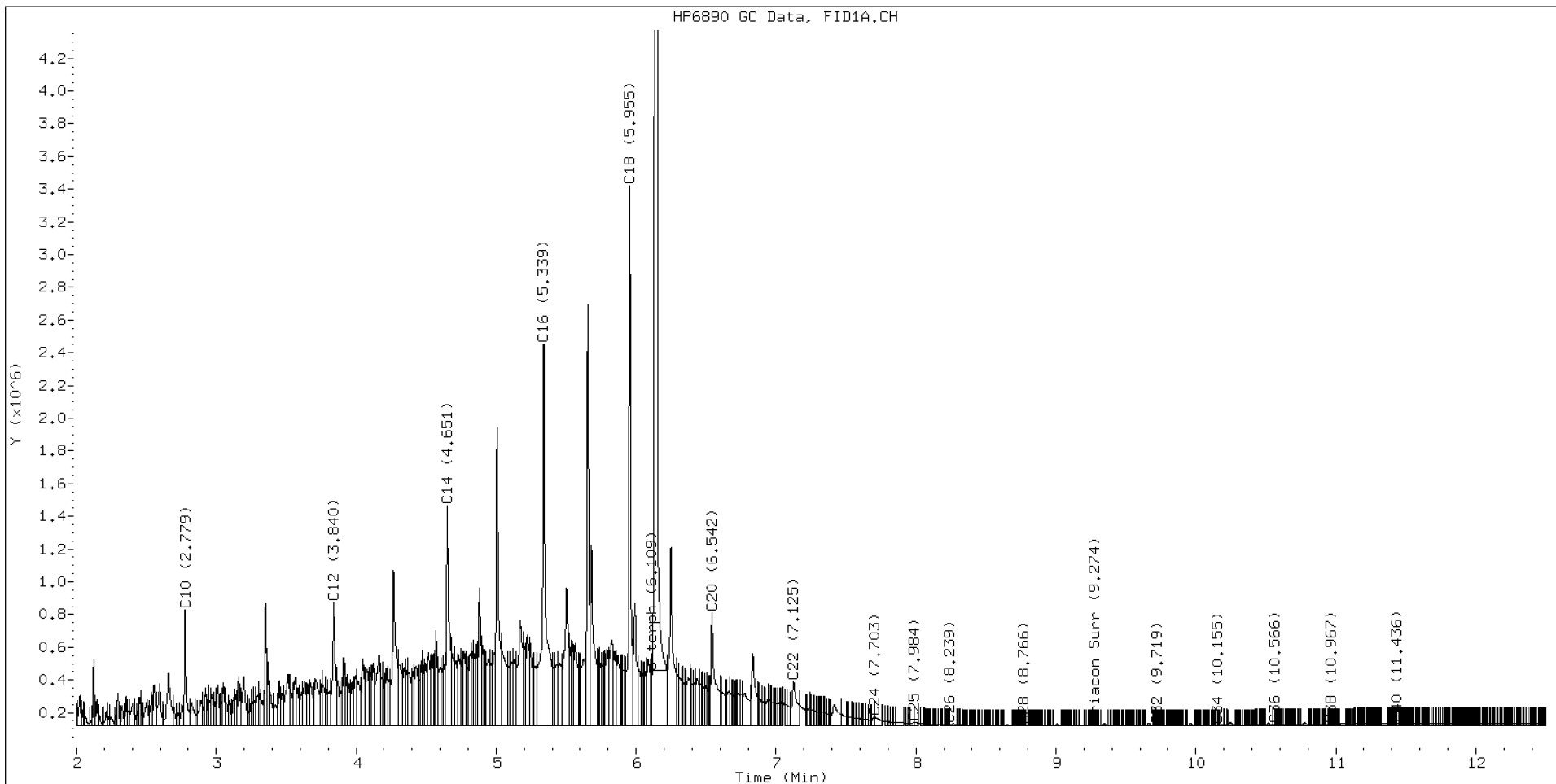
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.544	0.001	101061	64044	WATPHD	(C12-C24)	75223938	474.2
C10	2.779	-0.003	712017	703394	WATPHM	(C24-C38)	1146293	8.6
C12	3.840	-0.003	753727	981302	AK102	(C10-C25)	88635375	468.8
C14	4.651	-0.003	1345154	1820575	AK103	(C25-C36)	690288	7.0
C16	5.339	-0.005	2334938	4396431	OR.DIES	(C10-C28)	88962387	468.9
C18	5.955	-0.004	3299927	3250066				
C20	6.542	-0.005	690150	1431634	JET-A	(C10-C18)	69745143	402.7
C22	7.125	-0.002	270108	638416				
C24	7.703	0.007	53940	60457				
C25	7.984	0.010	20712	29738				
C26	8.239	-0.003	6896	2396				
C28	8.766	0.005	1114	352				
C32	9.719	0.003	1689	562				
C34	10.155	0.001	3645	721				
Filter Peak	13.967	0.002	15093	3011				
C36	10.566	-0.001	7764	2683				
C38	10.967	-0.005	11331	6735				
C40	11.436	-0.001	13087	3258				
o-terph	6.148	-0.003	18507079	17692811				
Triacon Surr	9.274	-0.002	633	225	NAS DIES	(C10-C24)	88430474	468.7

Range Times: NW Diesel(3.843 - 7.696) AK102(2.78 - 7.97) Jet A(2.78 - 5.96)
NW M.Oil(7.70 - 10.97) AK103(7.97 - 10.57) OR Diesel(2.78 - 8.76)

Surrogate	Area	Amount
o-Terphenyl	17692811	86.9 M
Triacontane	225	0.0

M Indicates the peak was manually integrated

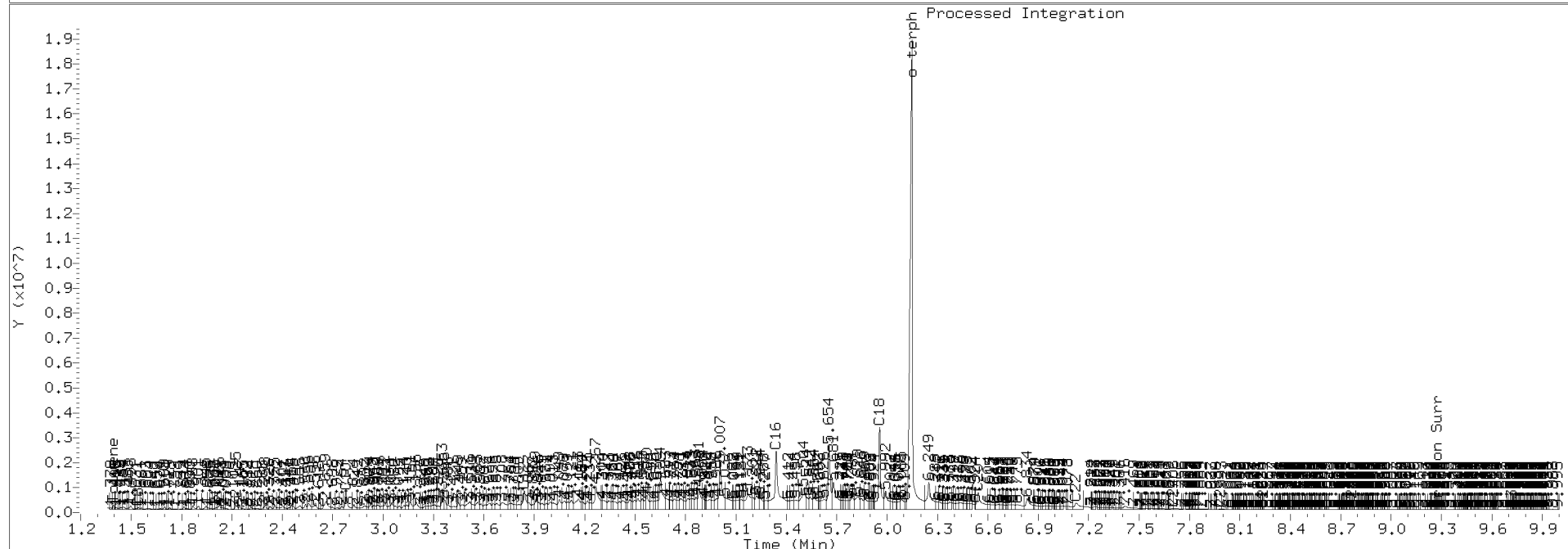
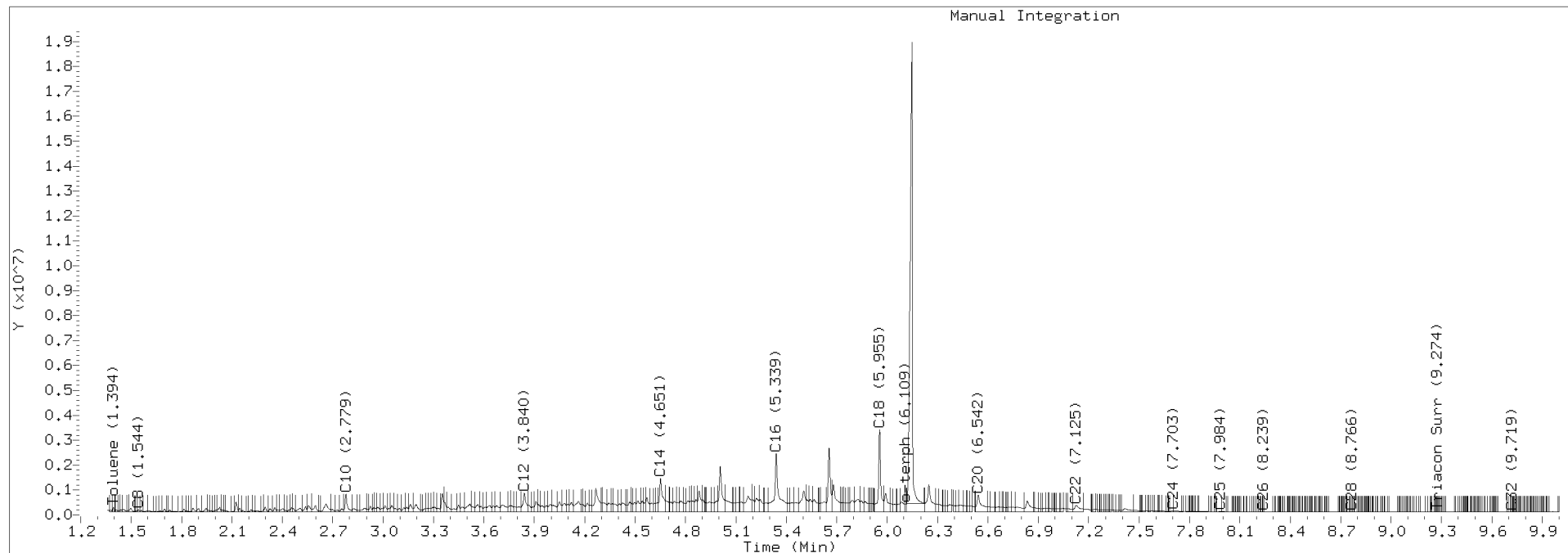
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220303.b/422C0323.D Injection: 03-MAR-2022 16:12

Lab ID:SEQ-CCV1





CONTINUING CALIBRATION CHECK
NWTPH-Dx

Laboratory: <u>Analytical Resources, LLC</u>	SDG: <u>22G0121</u>
Client: <u>GeoEngineers</u>	Project: <u>RG Haley Site-Bellingham</u>
Instrument ID: <u>FID4</u>	Calibration: <u>FA00054</u>
Lab File ID: <u>422D2129.D</u>	Calibration Date: <u>01/31/2022</u>
Sequence: <u>SKE0009</u>	Injection Date: <u>04/22/22</u>
Lab Sample ID: <u>SKE0009-CCV1</u>	Injection Time: <u>01:26</u>
Sequence Name: <u>DIESEL CCV</u>	

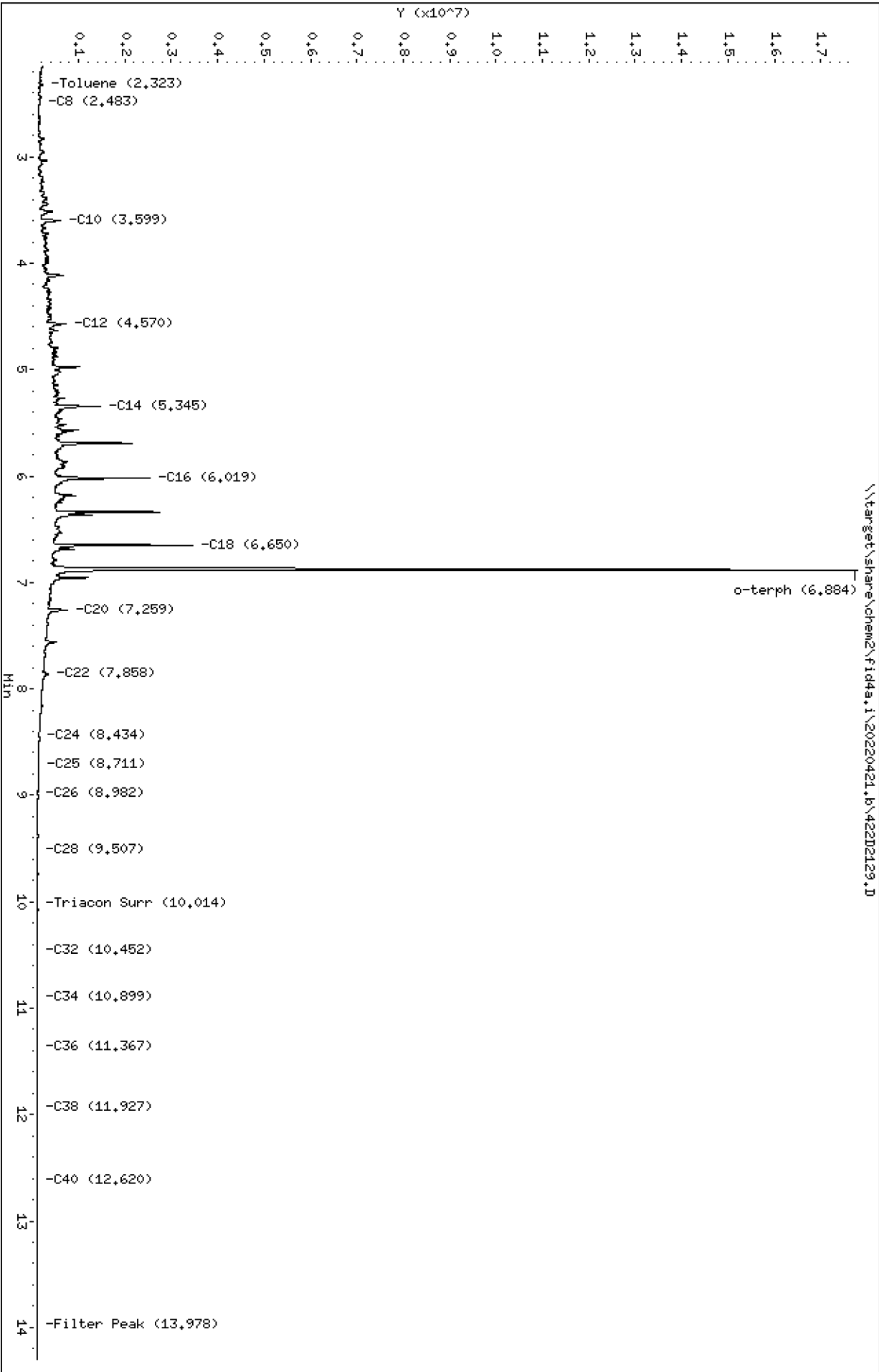
COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	528	158638.4	167465.6		5.6	+/-15
o-Terphenyl	A	90.000	90.8	203634.1	205473.8		0.9	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220421.b\422D2129.D
Date: 22-APR-2022 01:26
Client ID:
Sample Info: SEQ-CV1

Column phase: RTX-1

Instrument: fid4a,1
Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220421.b/422D2129.D
Method: 20220421.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 05/02/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-CCV1
Client ID:
Injection: 22-APR-2022 01:26
Dilution Factor: 1
RT Std: 422D2103.D

FID:4A RESULTS

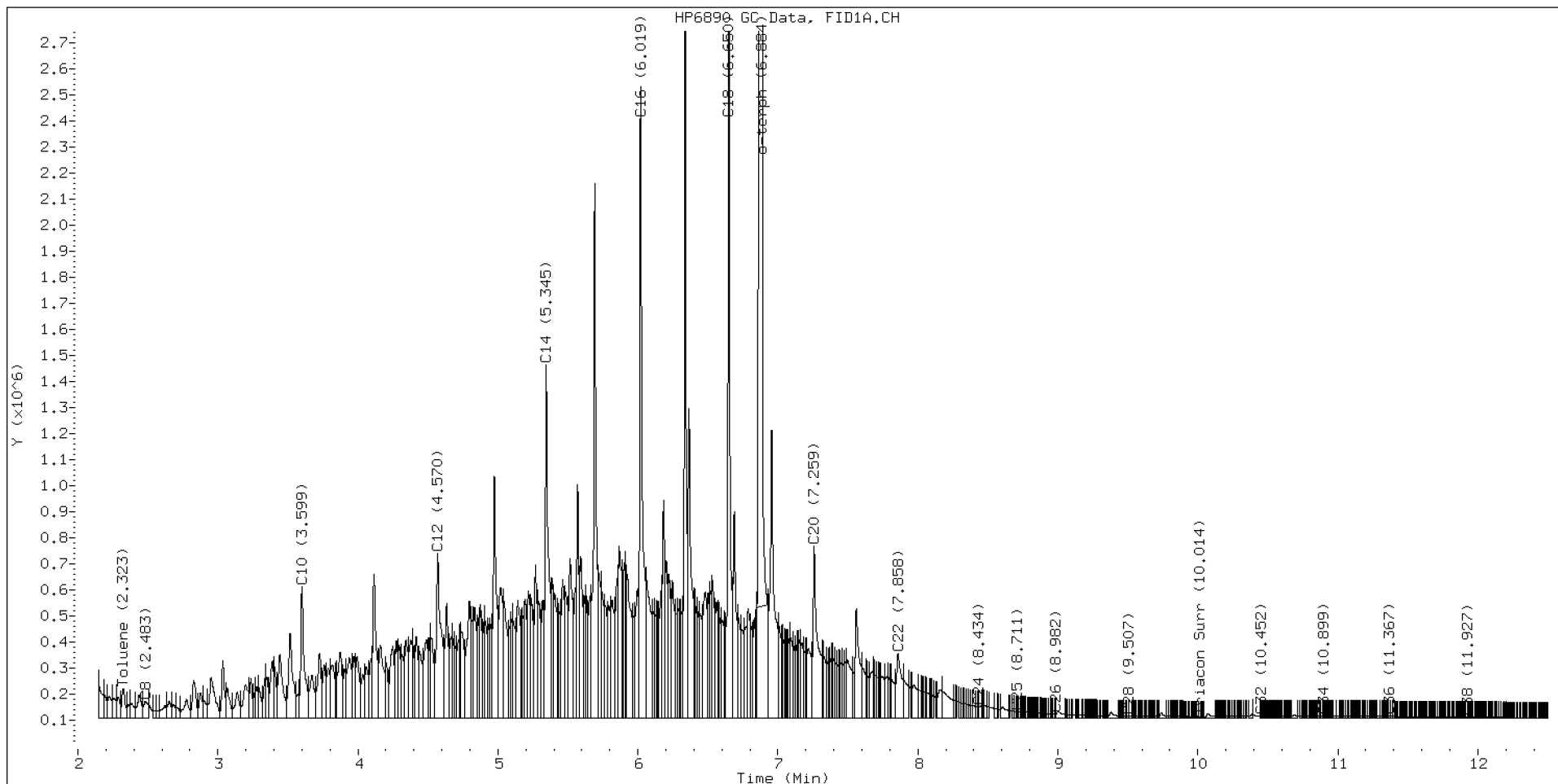
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.483	-0.019	63471	144147	WATPHD	(C12-C24)	83732775	527.8
C10	3.599	-0.005	500882	865831	WATPHM	(C24-C38)	1663006	12.5
C12	4.570	-0.001	632715	1475343	AK102	(C10-C25)	98051393	518.6
C14	5.345	-0.002	1355685	2096608	AK103	(C25-C36)	1304480	13.2
C16	6.019	-0.002	2422129	3042389	OR.DIES	(C10-C28)	98699632	520.2
C18	6.650	-0.003	3358803	3314418				
C20	7.259	-0.003	659055	1432934	JET-A	(C10-C18)	76045004	439.1
C22	7.858	-0.001	247440	634538				
C24	8.434	-0.002	41983	12555				
C25	8.711	-0.003	23544	7012				
C26	8.982	-0.002	14402	5716				
C28	9.507	0.003	6936	1723				
C32	10.452	-0.002	6544	4185				
C34	10.899	0.005	5926	2346				
Filter Peak	13.978	0.000	473	183	BUNKERC	(C10-C38)	99475020	1673.6
C36	11.367	-0.001	5449	2673				
C38	11.927	0.005	2582	1501				
C40	12.620	-0.003	422	159				
o-terph	6.884	-0.004	17257552	18492643				
Triacon Surr	10.014	-0.004	5154	3519	NAS DIES	(C10-C24)	97812014	518.4

Range Times: NW Diesel(4.571 - 8.436) AK102(3.60 - 8.71) Jet A(3.60 - 6.65)
NW M.Oil(8.44 - 11.92) AK103(8.71 - 11.37) OR Diesel(3.60 - 9.50)

Surrogate	Area	Amount
o-Terphenyl	18492643	90.8 M
Triacontane	3519	0.0

M Indicates the peak was manually integrated

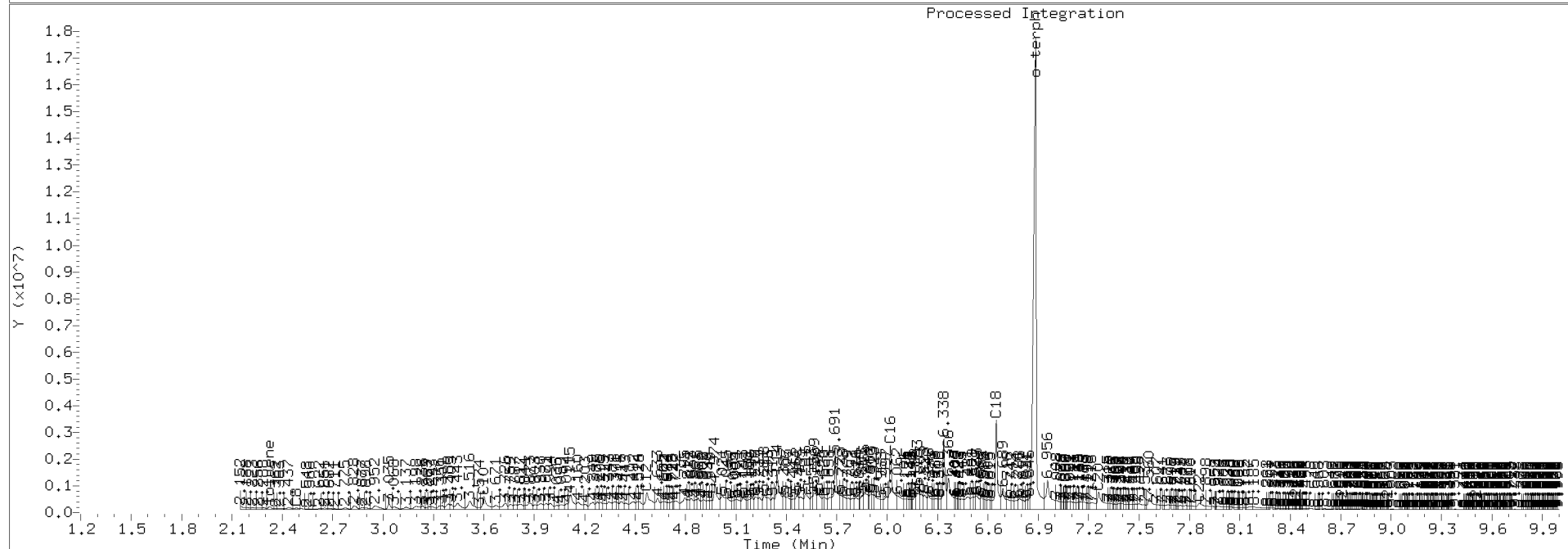
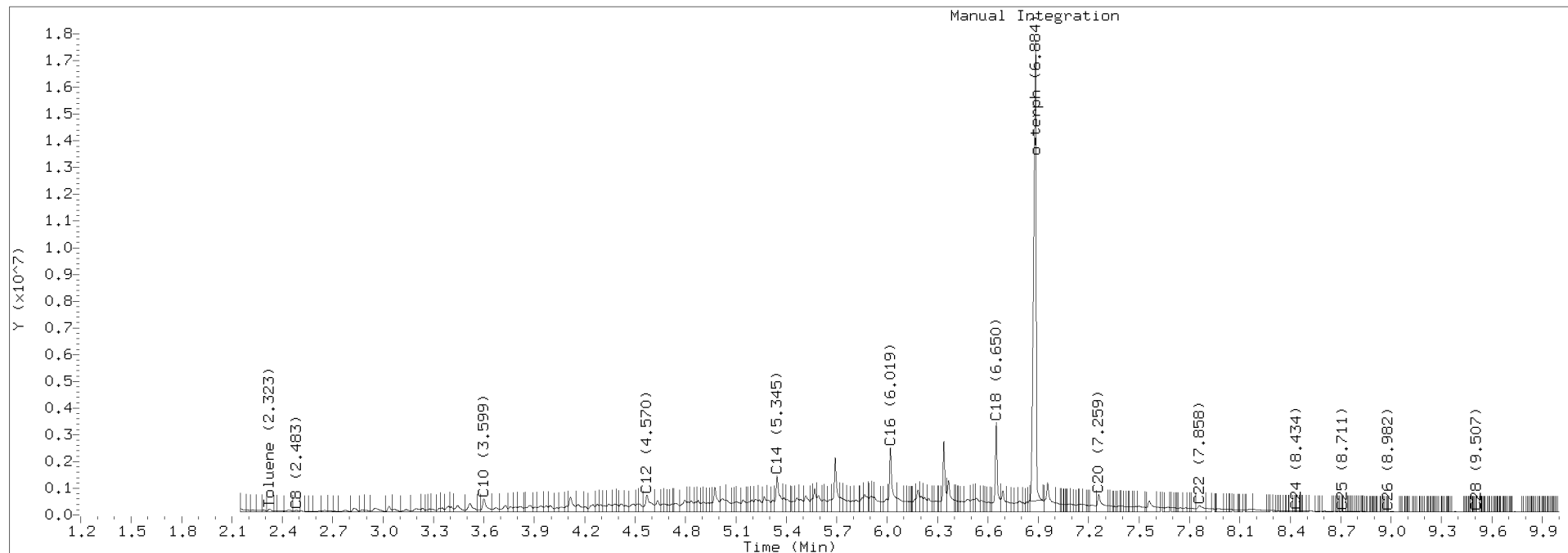
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022
Bunker C	59438.6	21-APR-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220421.b/422D2129.D Injection: 22-APR-2022 01:26

Lab ID:SEQ-CCV1





CONTINUING CALIBRATION CHECK
NWTPH-Dx

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>FA00054</u>
Lab File ID:	<u>422G1210.D</u>	Calibration Date:	<u>01/31/2022</u>
Sequence:	<u>SKG0101</u>	Injection Date:	<u>07/12/22</u>
Lab Sample ID:	<u>SKG0101-CCV1</u>	Injection Time:	<u>11:40</u>
Sequence Name:	<u>DIESEL CCV</u>		

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	562	158638.4	178322.2		12.4	+/-15
o-Terphenyl	A	90.000	106	203634.1	239527.3		17.7	+/-15 *

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220712,8\42261210.D
Date: 12-JUL-2022 11:40

Client ID:

Sample Info: SEQ-CCV1

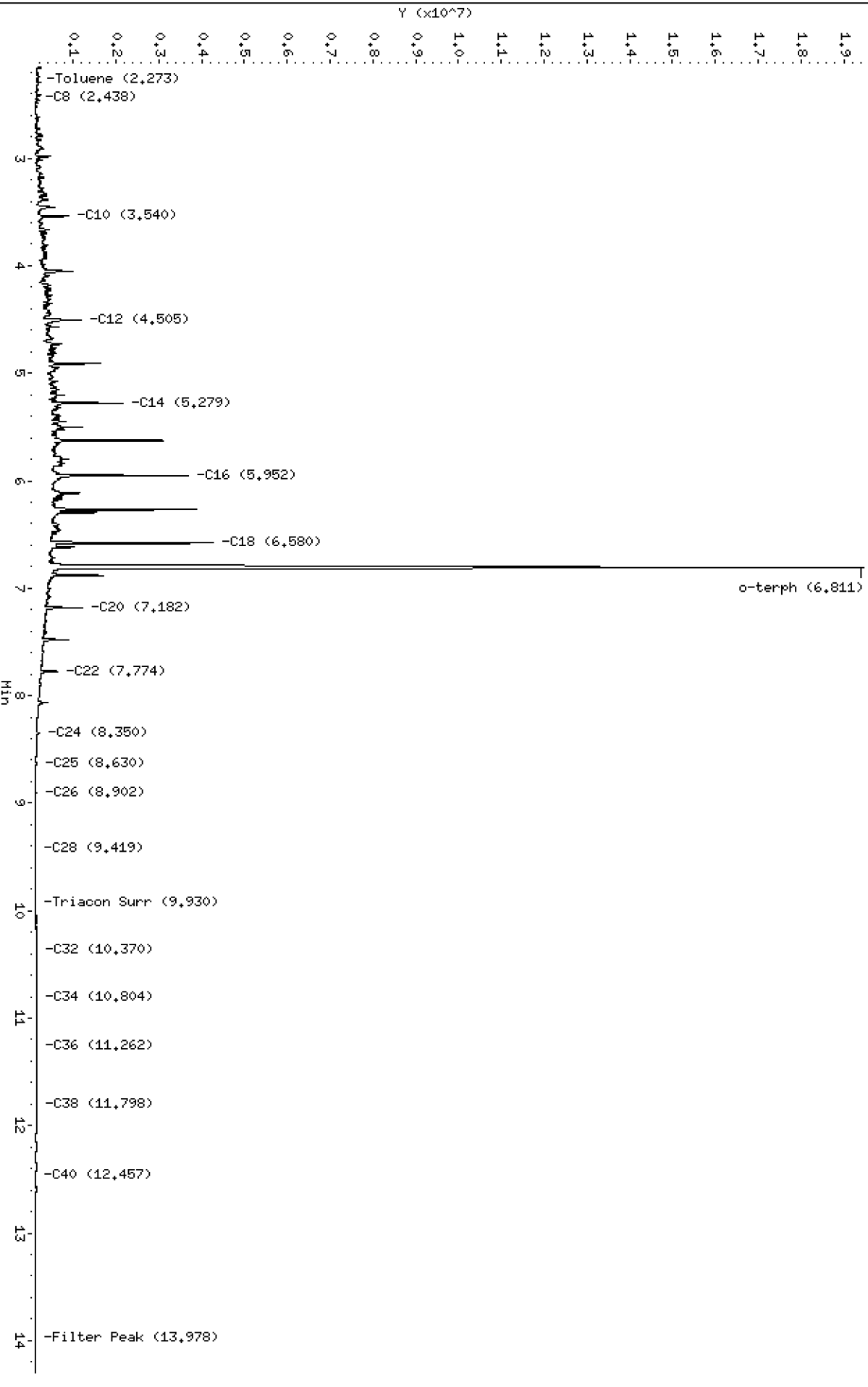
Column phase: RTX-1

Instrument: fid4a,1

Operator: AA/JGR

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20220712,8\42261210.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1210.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/12/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-CCV1
Client ID:
Injection: 12-JUL-2022 11:40
Dilution Factor: 1
RT Std: 422G1203.D

FID:4A RESULTS

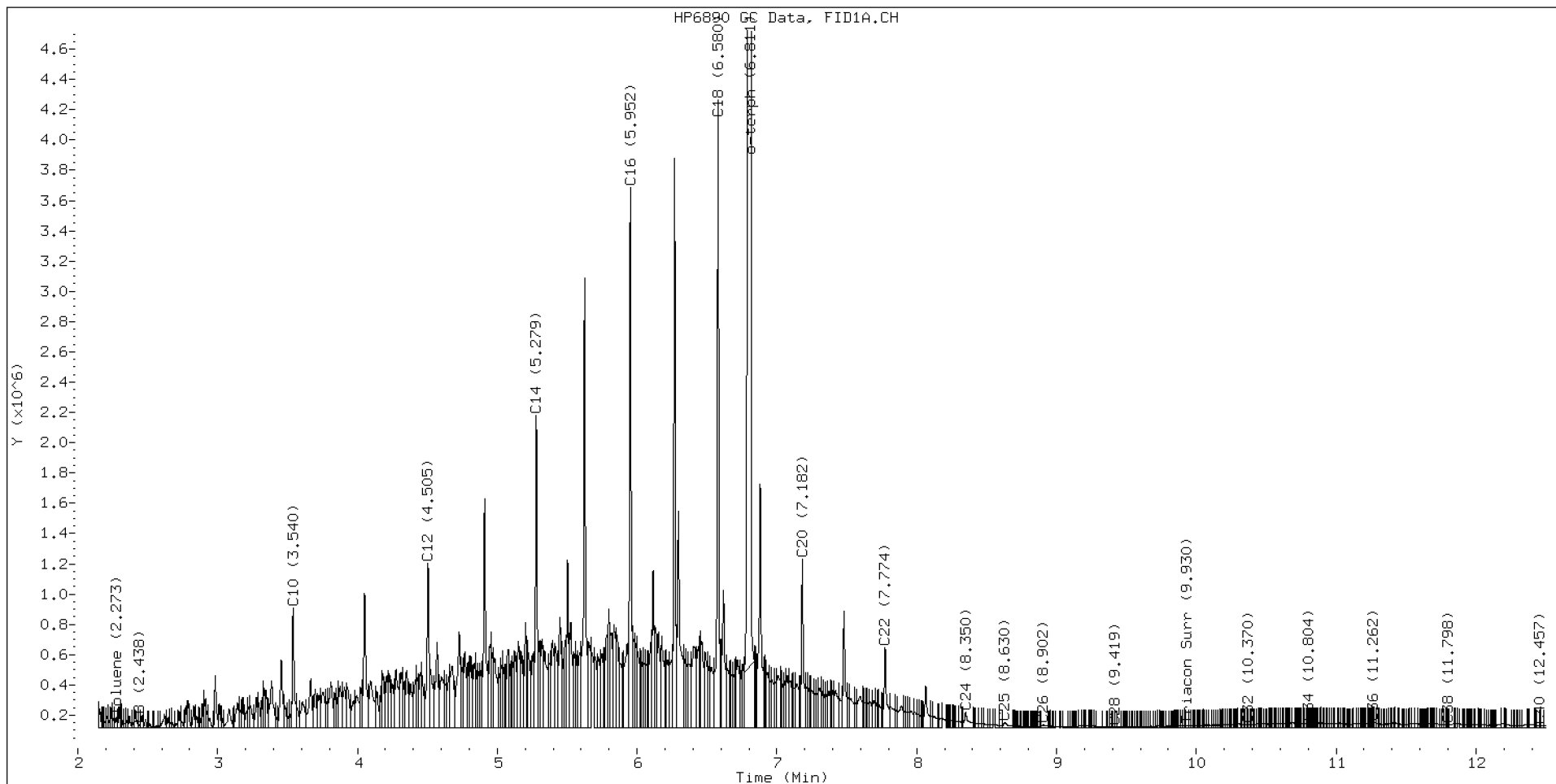
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.438	-0.006	20276	12114	WATPHD	(C12-C24)	89161108	562.0
C10	3.540	0.001	787608	781653	WATPHM	(C24-C38)	3500616	26.4
C12	4.505	-0.002	1084539	1193537	AK102	(C10-C25)	104556933	553.0
C14	5.279	-0.003	2058481	1781144	AK103	(C25-C36)	2548538	25.8
C16	5.952	-0.002	3567372	2853397	OR.DIES	(C10-C28)	104988169	553.3
C18	6.580	-0.002	4147386	3619466				
C20	7.182	-0.006	1112649	1077399	JET-A	(C10-C18)	81543500	470.8
C22	7.774	-0.008	528520	640909				
C24	8.350	-0.005	99982	208447				
C25	8.630	-0.002	33507	75610				
C26	8.902	-0.001	16931	41038				
C28	9.419	-0.001	4250	1303				
C32	10.370	0.000	19505	15183				
C34	10.804	-0.001	29946	21707				
Filter Peak	13.978	-0.005	1396	838				
C36	11.262	-0.002	29984	5989				
C38	11.798	-0.002	17814	4439				
C40	12.457	-0.002	13976	4169				
o-terph	6.811	-0.001	18943189	21557463				
Triacon Surr	9.930	-0.004	13826	14622	NAS DIES	(C10-C24)	104328718	553.0

Range Times: NW Diesel(4.507 - 8.354) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	21557463	105.9 M
Triacontane	14622	0.1

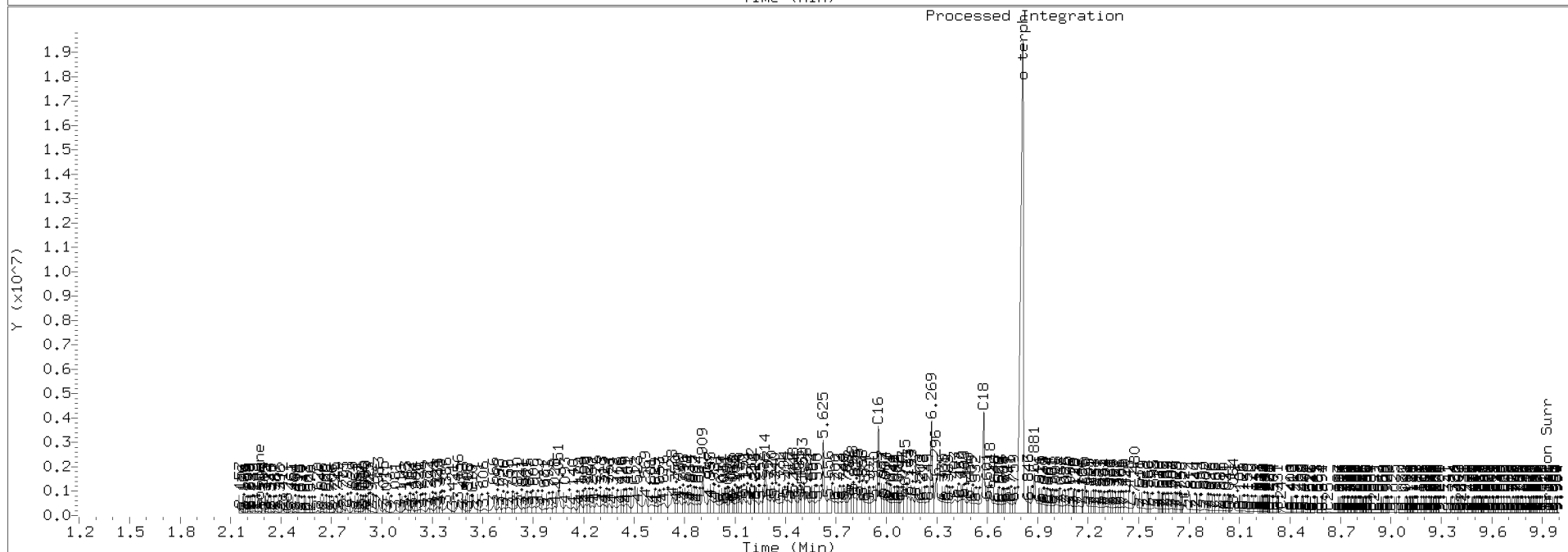
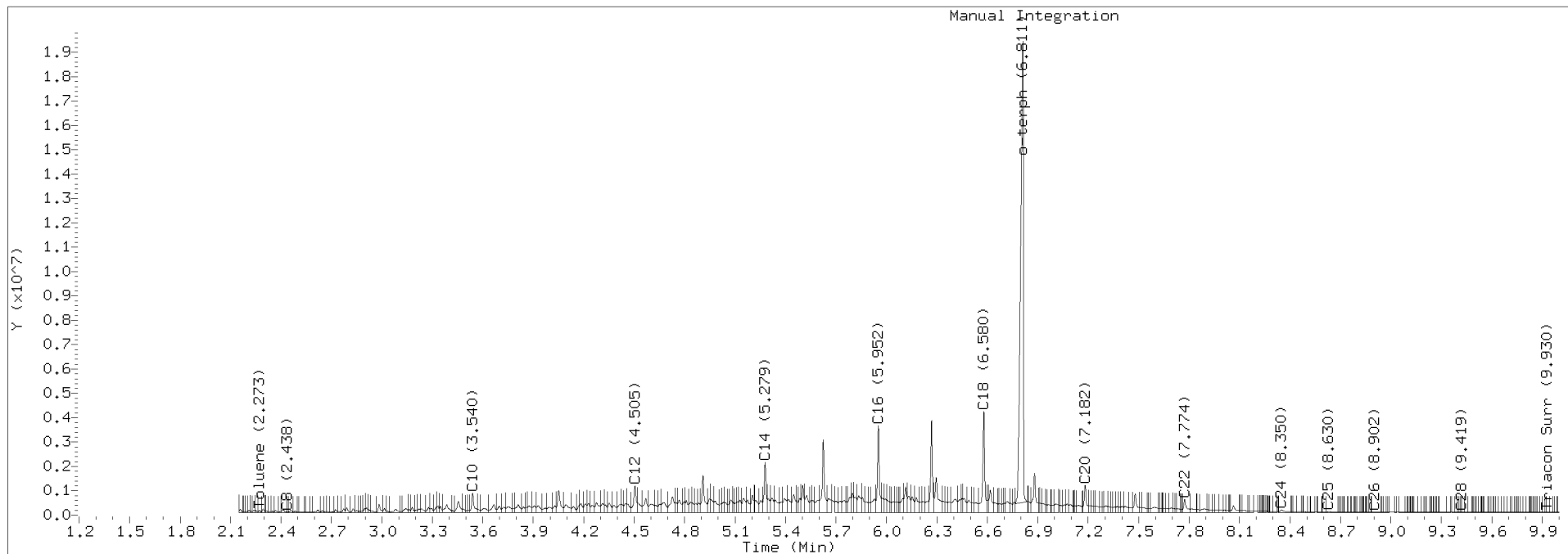
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1210.D Injection: 12-JUL-2022 11:40
Lab ID:SEQ-CCV1





CONTINUING CALIBRATION CHECK

NWTPH-Dx

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>FA00054</u>
Lab File ID:	<u>422G1211.D</u>	Calibration Date:	<u>01/31/2022</u>
Sequence:	<u>SKG0101</u>	Injection Date:	<u>07/12/22</u>
Lab Sample ID:	<u>SKG0101-CCV2</u>	Injection Time:	<u>12:00</u>
Sequence Name:	<u>MOIL CCV</u>		

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Motor Oil Range Organics (C24-C38)	A	1000.0	908	132579.1	120360.2		-9.2	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220712.8\42261211.D
Date: 12-JUL-2022 12:00

Client ID:

Sample Info: SEQ-CCV2

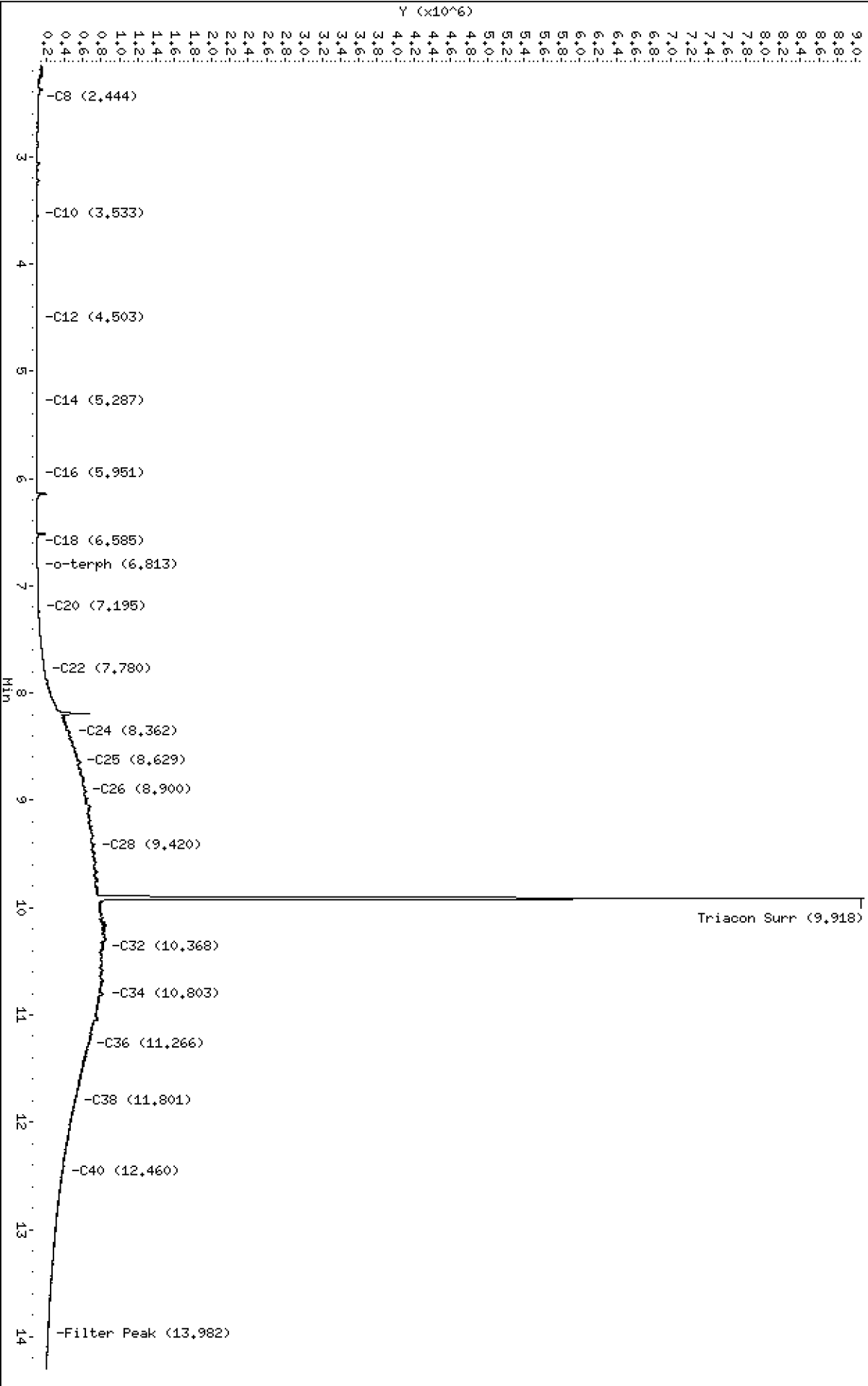
Column phase: RTX-1

Instrument: fid4a,1

Operator: AA/JGR

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1211.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/12/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-CCV2
Client ID:
Injection: 12-JUL-2022 12:00
Dilution Factor: 1
RT Std: 422G1203.D

FID:4A RESULTS

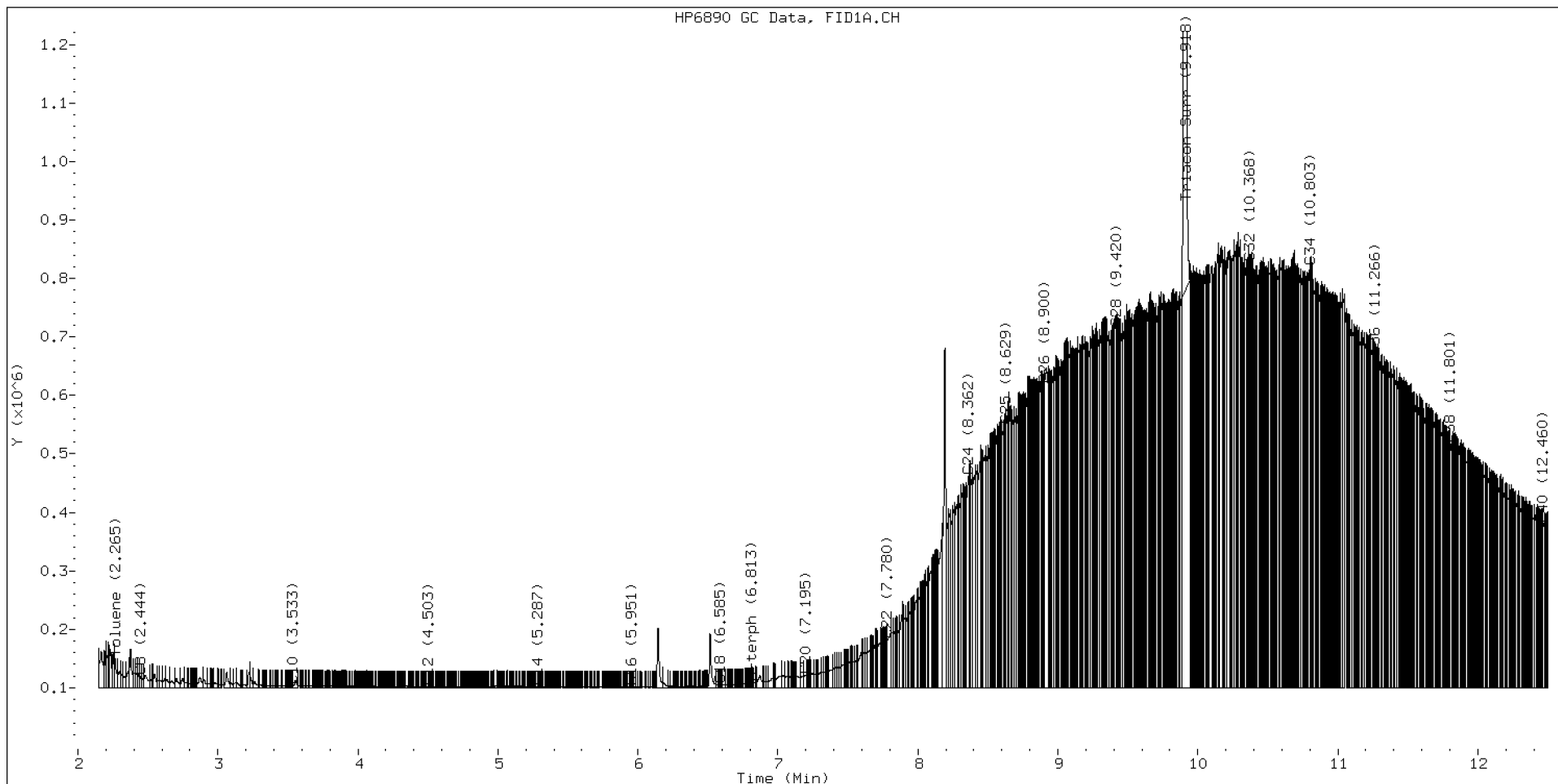
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.444	-0.000	17951	15594	WATPHD	(C12-C24)	10263709	64.7
C10	3.533	-0.005	2550	735	WATPHM	(C24-C38)	120360243	907.8
C12	4.503	-0.004	1143	507	AK102	(C10-C25)	14303257	75.6
C14	5.287	0.005	1173	586	AK103	(C25-C36)	101224725	1023.4
C16	5.951	-0.004	491	133	OR.DIES	(C10-C28)	42545961	224.2
C18	6.585	0.003	4163	1390				
C20	7.195	0.006	20849	20877	JET-A	(C10-C18)	441967	2.6
C22	7.780	-0.002	81612	16290				
C24	8.362	0.007	361133	397275				
C25	8.629	-0.003	447927	111505				
C26	8.900	-0.003	517585	180086				
C28	9.420	-0.000	613655	153112				
C32	10.368	-0.001	726554	252614				
C34	10.803	-0.002	719223	428820				
Filter Peak	13.982	-0.001	119867	29919				
C36	11.266	0.001	565095	141010				
C38	11.801	0.001	416150	62280				
C40	12.460	0.001	279341	55827				
o-terph	6.813	0.001	7387	2181				
Triacon Surr	9.918	-0.016	8304171	7801565	NAS DIES	(C10-C24)	10384398	55.0

Range Times: NW Diesel(4.507 - 8.354) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	2181	0.0
Triacontane	7801565	44.8 M

M Indicates the peak was manually integrated

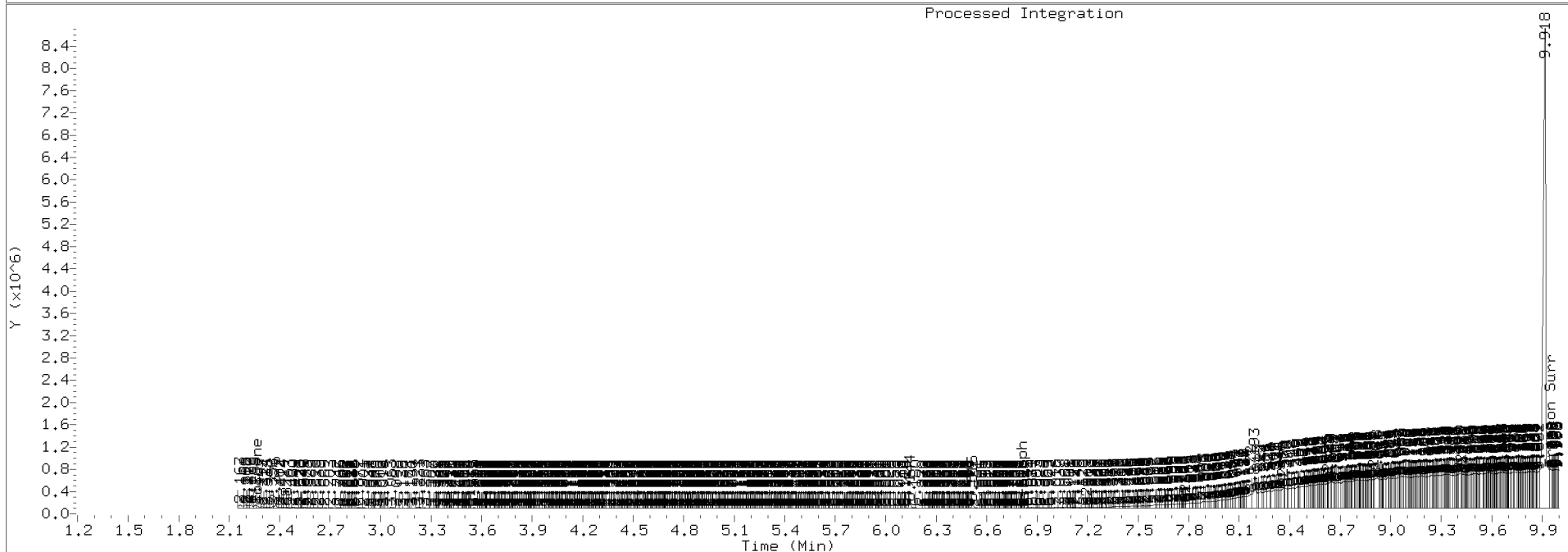
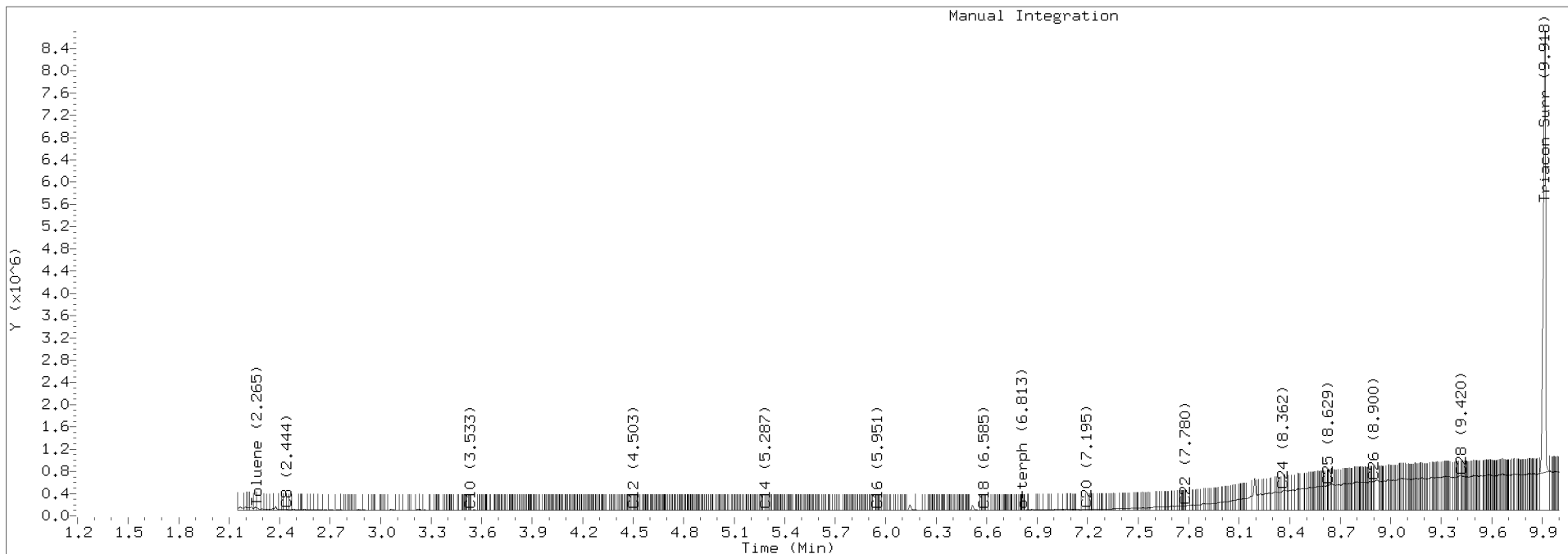
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1211.D Injection: 12-JUL-2022 12:00

Lab ID:SEQ-CCV2





CONTINUING CALIBRATION CHECK
NWTPH-Dx

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>FA00054</u>
Lab File ID:	<u>422G1219.D</u>	Calibration Date:	<u>01/31/2022</u>
Sequence:	<u>SKG0101</u>	Injection Date:	<u>07/12/22</u>
Lab Sample ID:	<u>SKG0101-CCV3</u>	Injection Time:	<u>14:42</u>
Sequence Name:	<u>DIESEL CCV</u>		

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	522	158638.4	165554.8		4.4	+/-15
o-Terphenyl	A	90.000	95.3	203634.1	215642		5.9	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220712,8\42261219.D
Date: 12-JUL-2022 14:42

Client ID:

Sample Info: SEQ-OCV3

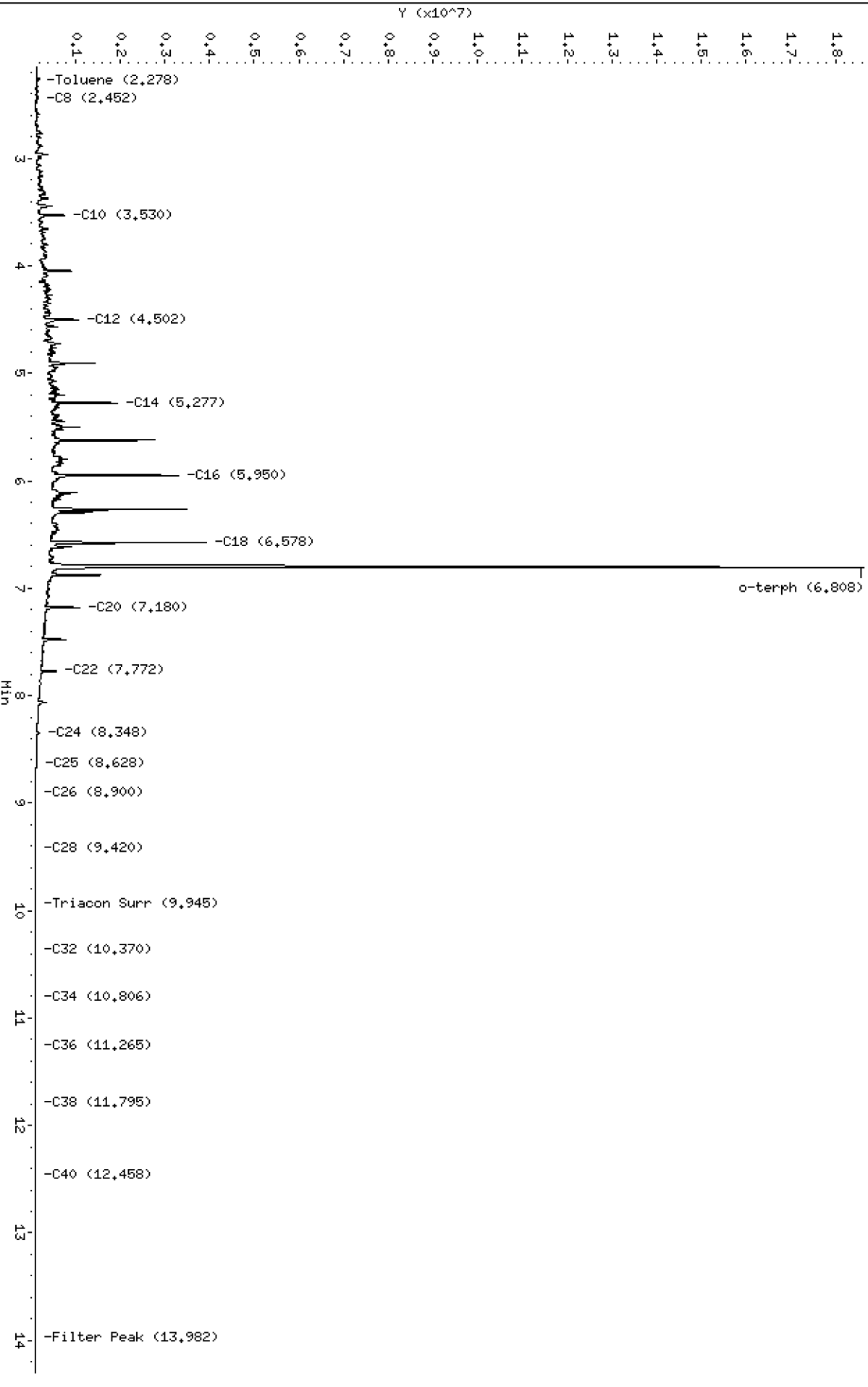
Column phase: RTX-1

Instrument: fid4a,1

Operator: AA/JGR

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20220712,8\42261219.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1219.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/12/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-CCV3
Client ID:
Injection: 12-JUL-2022 14:42
Dilution Factor: 1
RT Std: 422G1203.D

FID:4A RESULTS

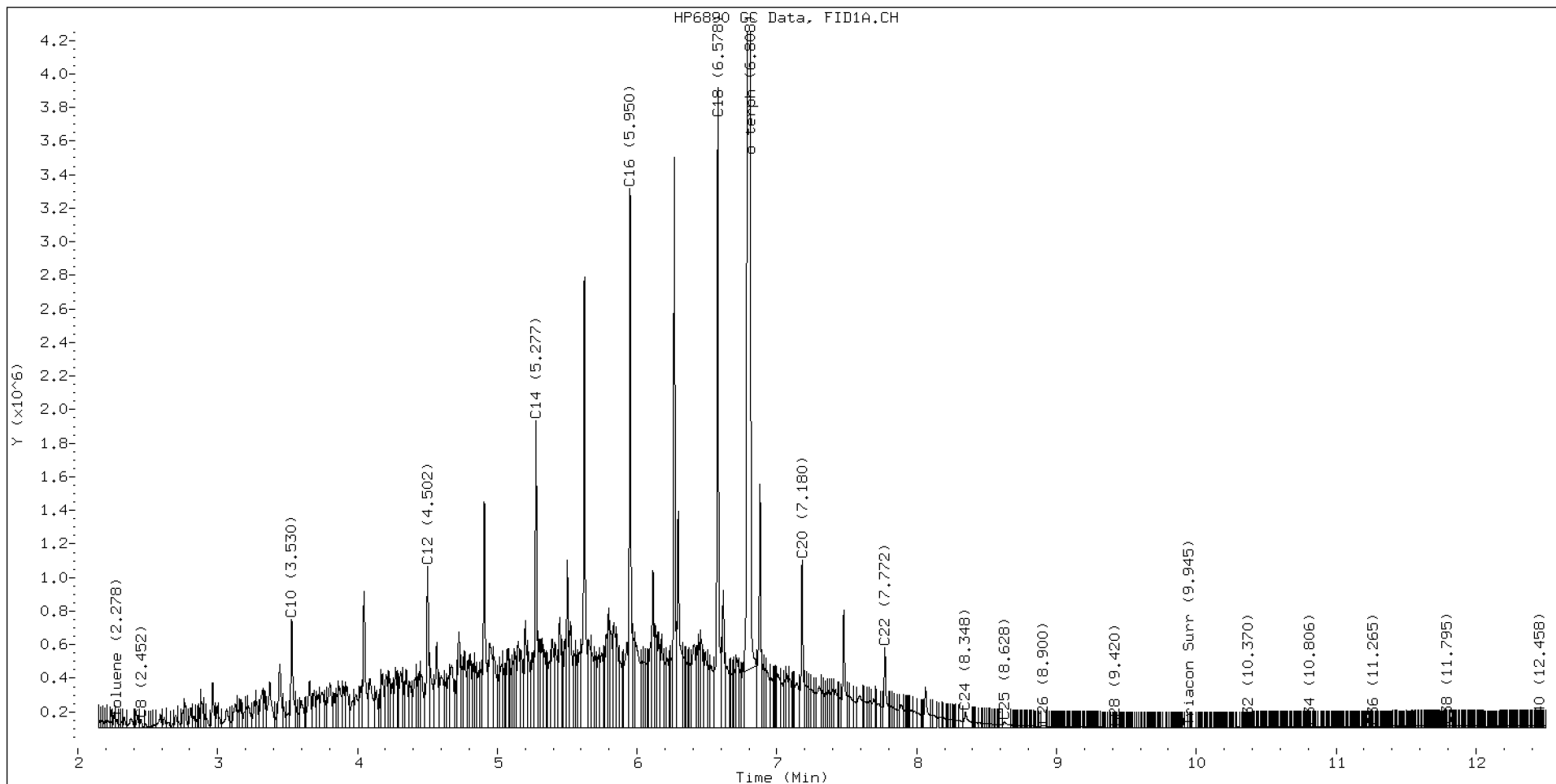
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.452	0.008	50877	44762	WATPHD	(C12-C24)	82777409	521.8
C10	3.530	-0.009	641186	716556	WATPHM	(C24-C38)	1259584	9.5
C12	4.502	-0.005	959979	1075453	AK102	(C10-C25)	97066967	513.4
C14	5.277	-0.005	1826715	1600574	AK103	(C25-C36)	729128	7.4
C16	5.950	-0.004	3210214	2568864	OR.DIES	(C10-C28)	97450622	513.6
C18	6.578	-0.004	3810084	3293454				
C20	7.180	-0.008	998424	1018523	JET-A	(C10-C18)	75230090	434.4
C22	7.772	-0.010	475222	572827				
C24	8.348	-0.006	93051	197044				
C25	8.628	-0.004	33613	81319				
C26	8.900	-0.003	13684	25213				
C28	9.420	-0.001	2036	653				
C32	10.370	0.001	2485	1074				
C34	10.806	0.001	5796	1147				
Filter Peak	13.982	-0.001	9692	6227				
C36	11.265	0.000	8067	2000				
C38	11.795	-0.005	9198	5934				
C40	12.458	-0.001	9480	5152				
o-terph	6.808	-0.004	18177941	19407781				
Triacon Surr	9.945	0.011	999	569	NAS DIES	(C10-C24)	96819225	513.2

Range Times: NW Diesel(4.507 - 8.354) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	19407781	95.3 M
Triacontane	569	0.0

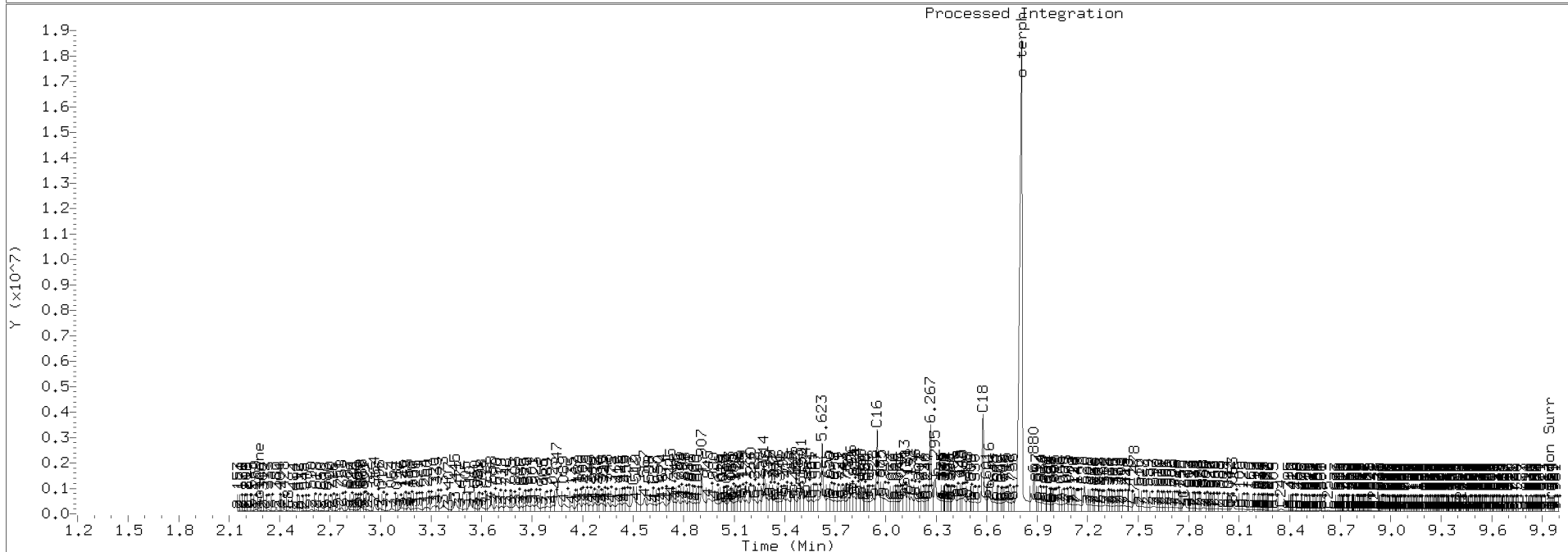
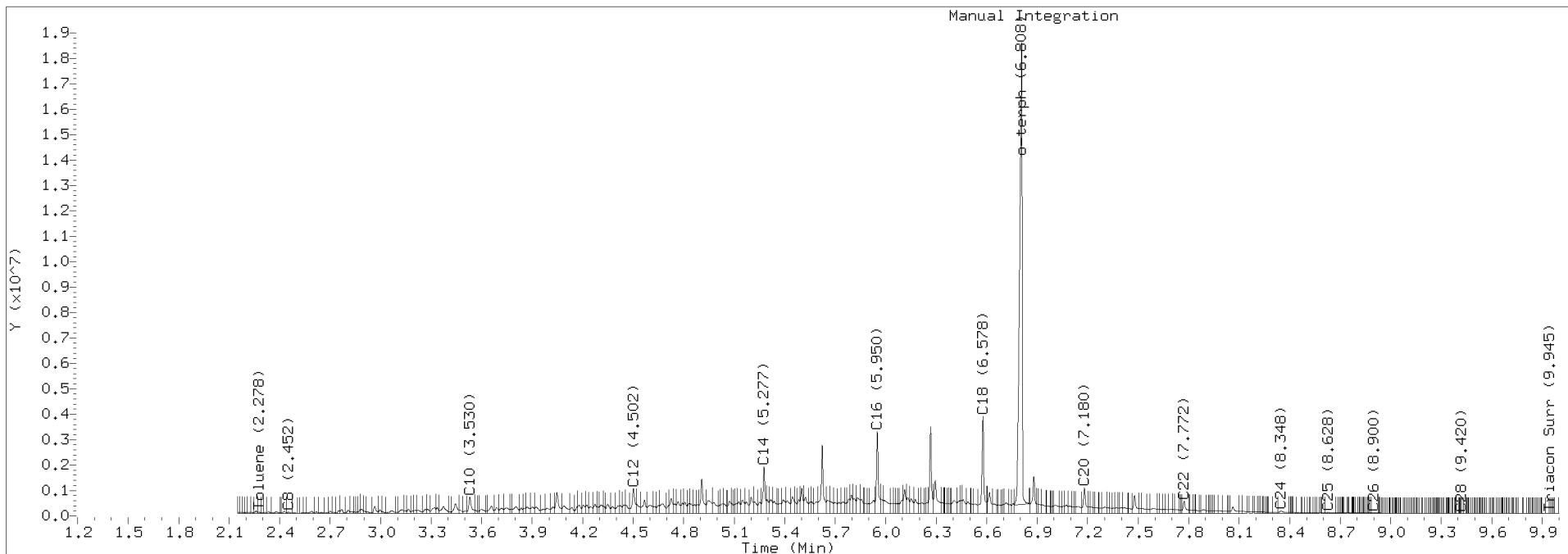
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1219.D Injection: 12-JUL-2022 14:42
Lab ID:SEQ-CCV3





Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
NWTPH-Dx

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>FA00054</u>
Lab File ID:	<u>422G1220.D</u>	Calibration Date:	<u>01/31/2022</u>
Sequence:	<u>SKG0101</u>	Injection Date:	<u>07/12/22</u>
Lab Sample ID:	<u>SKG0101-CCV4</u>	Injection Time:	<u>15:02</u>
Sequence Name:	<u>MOIL CCV</u>		

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Motor Oil Range Organics (C24-C38)	A	1000.0	984	132579.1	130509.1		-1.6	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220712,8\42261220.D
Date: 12-JUL-2022 15:02

Client ID:

Sample Info: SEQ-CCV4

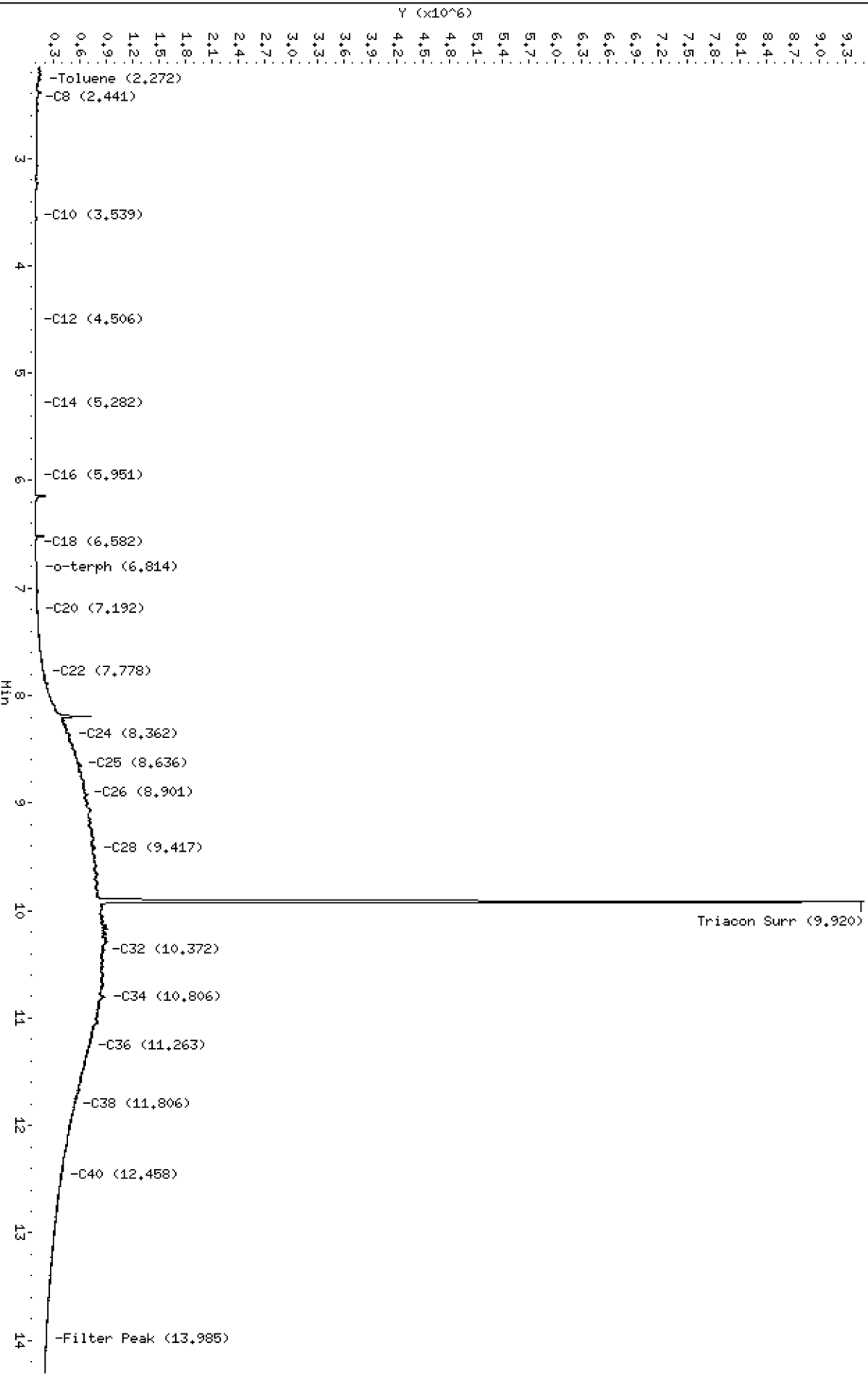
Column phase: RTX-1

Instrument: fid4a,1

Operator: AA/JGR

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20220712,8\42261220.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1220.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/12/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-CCV4
Client ID:
Injection: 12-JUL-2022 15:02
Dilution Factor: 1
RT Std: 422G1203.D

FID:4A RESULTS

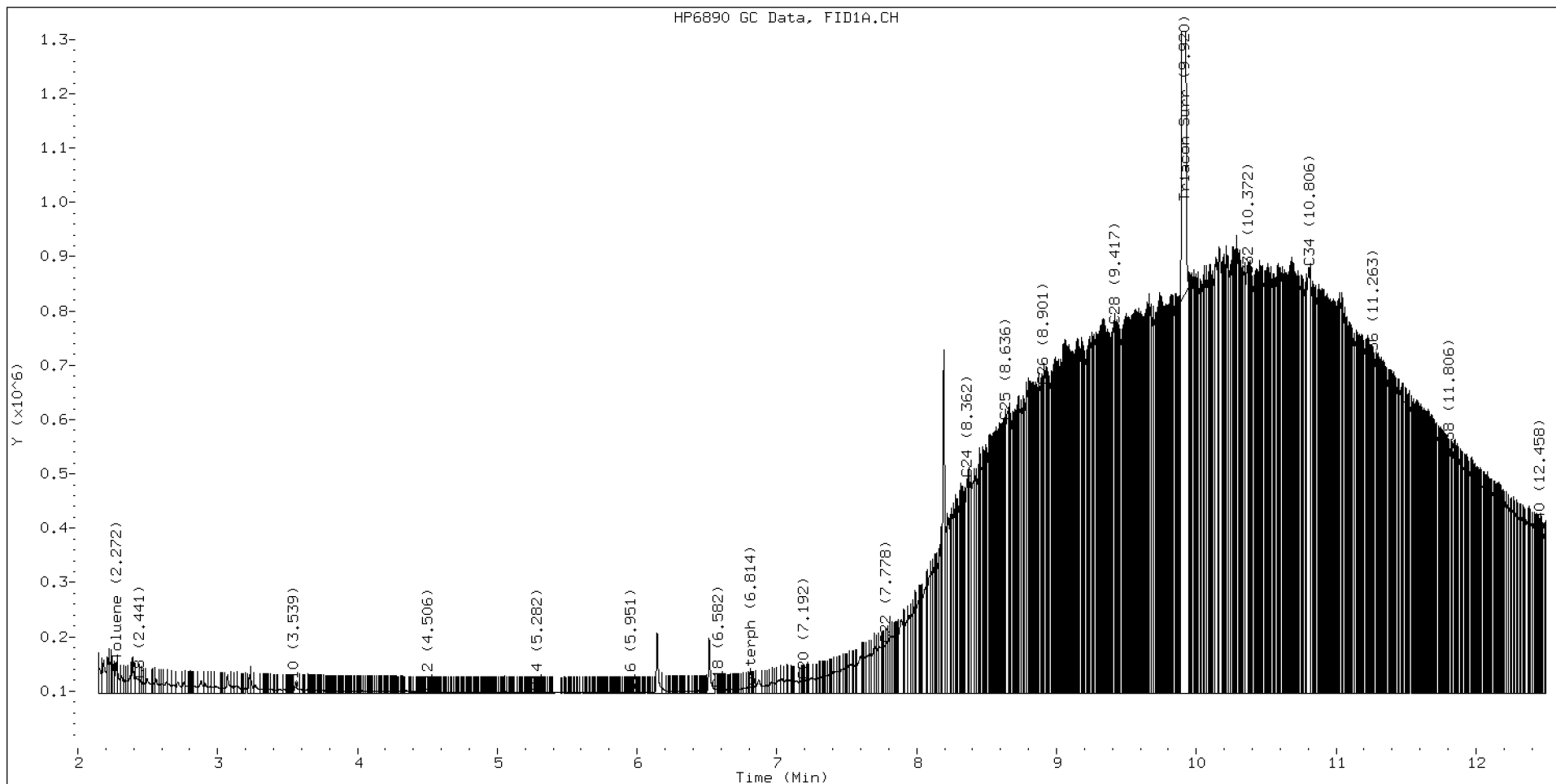
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.441	-0.004	23593	21665	WATPHD	(C12-C24)	11325368	71.4
C10	3.539	0.000	5380	1336	WATPHM	(C24-C38)	130509074	984.4
C12	4.506	-0.001	1681	486	AK102	(C10-C25)	15938723	84.3
C14	5.282	0.000	1153	631	AK103	(C25-C36)	109943925	1111.6
C16	5.951	-0.003	1165	543	OR.DIES	(C10-C28)	46884959	247.1
C18	6.582	0.000	6170	3625				
C20	7.192	0.004	22603	8871	JET-A	(C10-C18)	579278	3.3
C22	7.778	-0.004	89960	65818				
C24	8.362	0.008	393624	451552				
C25	8.636	0.004	498562	295077				
C26	8.901	-0.002	563793	252267				
C28	9.417	-0.003	676543	299832				
C32	10.372	0.003	767235	191611				
C34	10.806	0.001	784052	1109764				
Filter Peak	13.985	0.002	125930	49840				
C36	11.263	-0.001	608465	151923				
C38	11.806	0.005	444448	198502				
C40	12.458	-0.001	296365	132100				
o-terph	6.814	0.002	10233	9443				
Triacon Surr	9.920	-0.014	8670310	8426499	NAS DIES	(C10-C24)	11530169	61.1

Range Times: NW Diesel(4.507 - 8.354) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	9443	0.0
Triacontane	8426499	48.4 M

M Indicates the peak was manually integrated

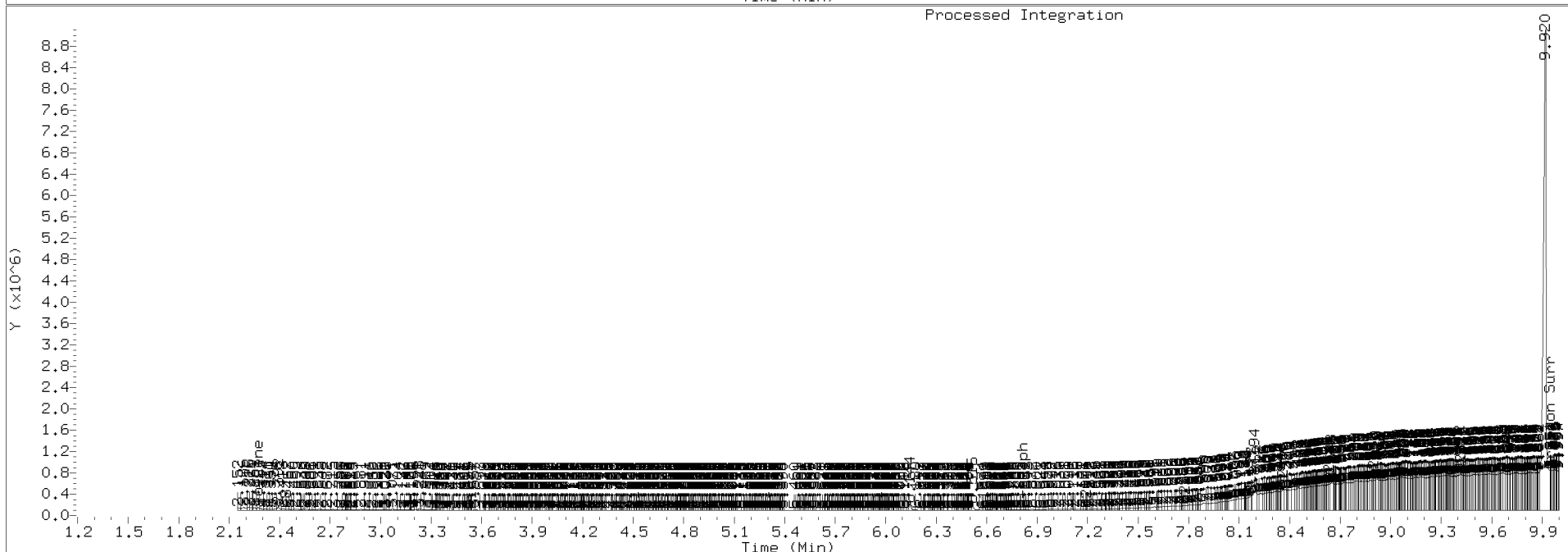
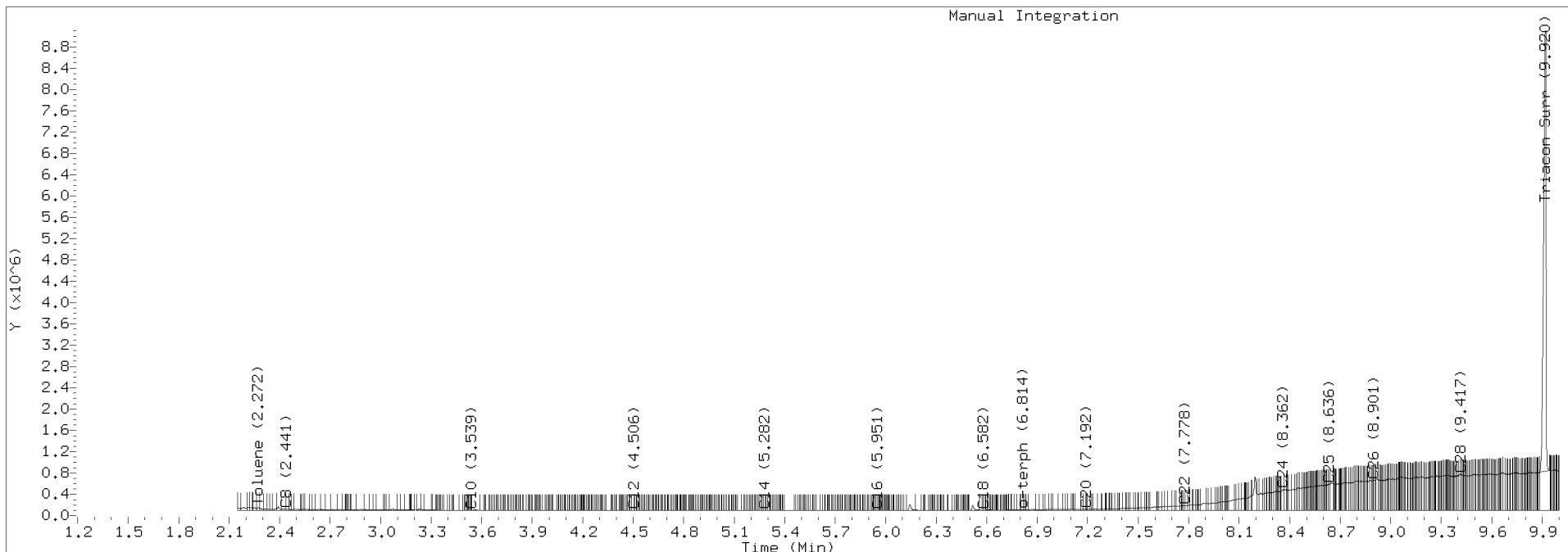
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1220.D Injection: 12-JUL-2022 15:02

Lab ID:SEQ-CCV4





CONTINUING CALIBRATION CHECK
NWTPH-Dx

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>FA00054</u>
Lab File ID:	<u>422G1235.D</u>	Calibration Date:	<u>01/31/2022</u>
Sequence:	<u>SKG0126</u>	Injection Date:	<u>07/12/22</u>
Lab Sample ID:	<u>SKG0126-CCV1</u>	Injection Time:	<u>22:39</u>
Sequence Name:	<u>DIESEL CCV</u>		

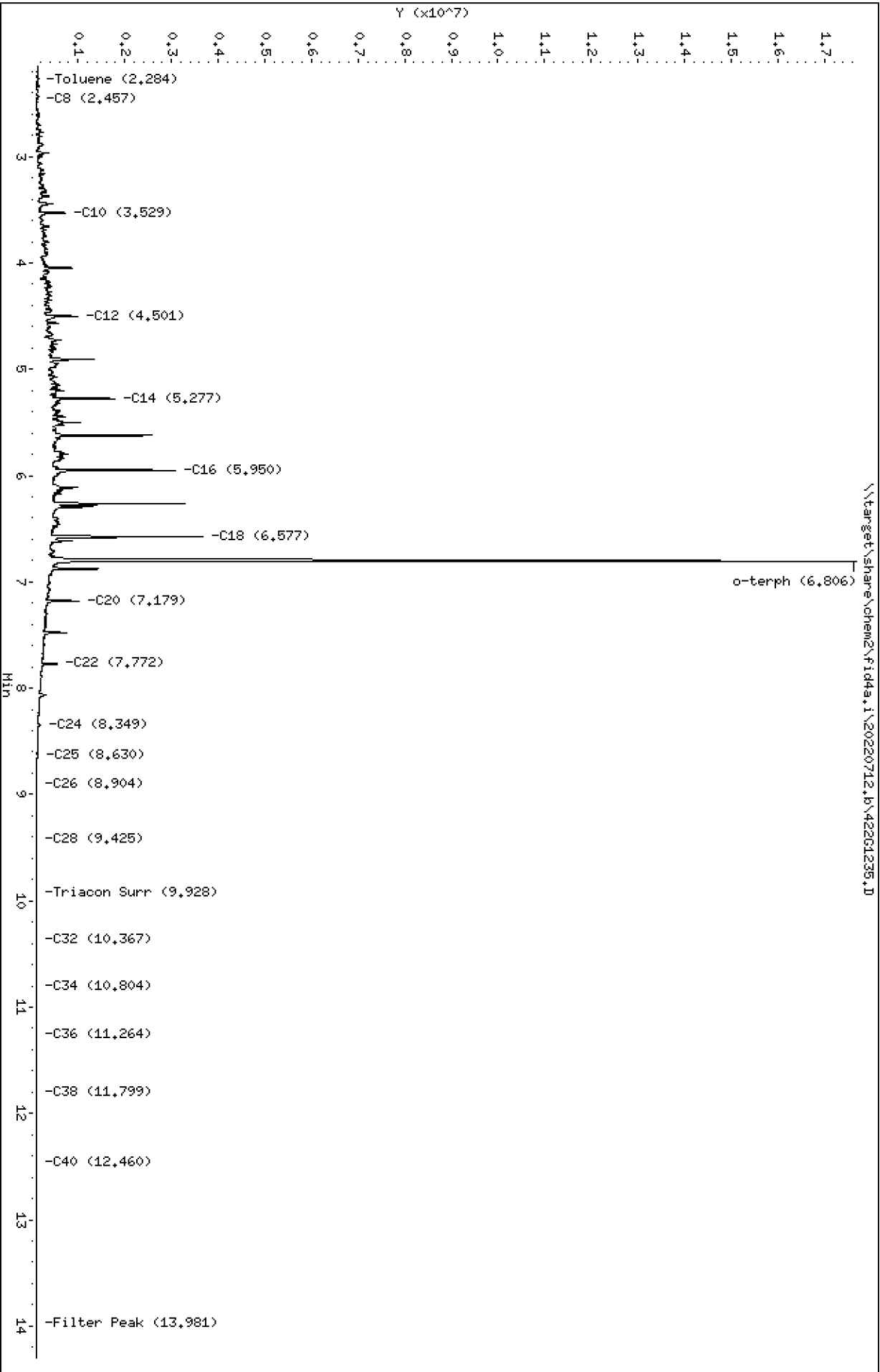
COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	487	158638.4	154379.2		-2.7	+/-15
o-Terphenyl	A	90.000	89.1	203634.1	201565.3		-1.0	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220712,8\42261235.D
Date: 12-JUL-2022 22:39
Client ID:
Sample Info: SEQ-CCV1

Column phase: RTX-1

Instrument: fid4a,1
Operator: AA/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1235.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/13/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-CCV1
Client ID:
Injection: 12-JUL-2022 22:39
Dilution Factor: 1
RT Std: 422G1223.D

FID:4A RESULTS

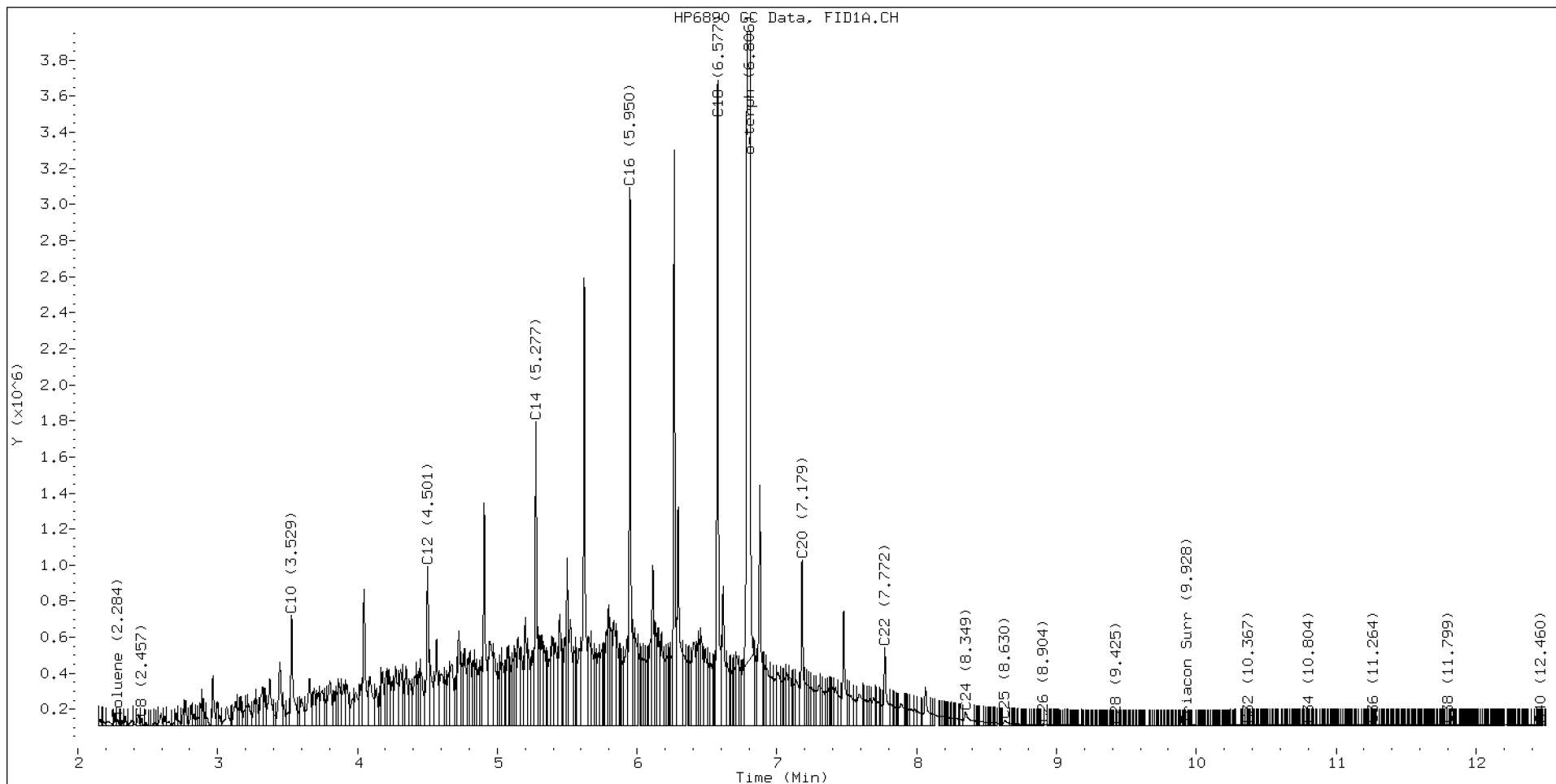
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.457	0.010	43398	32371	WATPHD	(C12-C24)	77189582	486.6
C10	3.529	-0.008	614789	759207	WATPHM	(C24-C38)	1363069	10.3
C12	4.501	-0.005	885708	972788	AK102	(C10-C25)	90617332	479.3
C14	5.277	-0.004	1687878	1507277	AK103	(C25-C36)	903794	9.1
C16	5.950	-0.004	2985094	2449273	OR.DIES	(C10-C28)	90960427	479.4
C18	6.577	-0.004	3582504	3044754				
C20	7.179	-0.008	921795	987202	JET-A	(C10-C18)	70279581	405.8
C22	7.772	-0.008	435706	567329				
C24	8.349	-0.004	79712	199284				
C25	8.630	-0.001	28249	63186				
C26	8.904	0.003	11436	15686				
C28	9.425	0.005	3154	2201				
C32	10.367	-0.003	5403	4165				
C34	10.804	-0.001	6921	691				
Filter Peak	13.981	0.001	6077	2992				
C36	11.264	-0.001	7547	2603				
C38	11.799	-0.001	7733	4529				
C40	12.460	-0.002	6709	1978				
o-terph	6.806	-0.004	17203331	18140885				
Triacon Surr	9.928	-0.005	4189	3807	NAS DIES	(C10-C24)	90403430	479.2

Range Times: NW Diesel(4.506 - 8.353) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	18140885	89.1 M
Triacontane	3807	0.0

M Indicates the peak was manually integrated

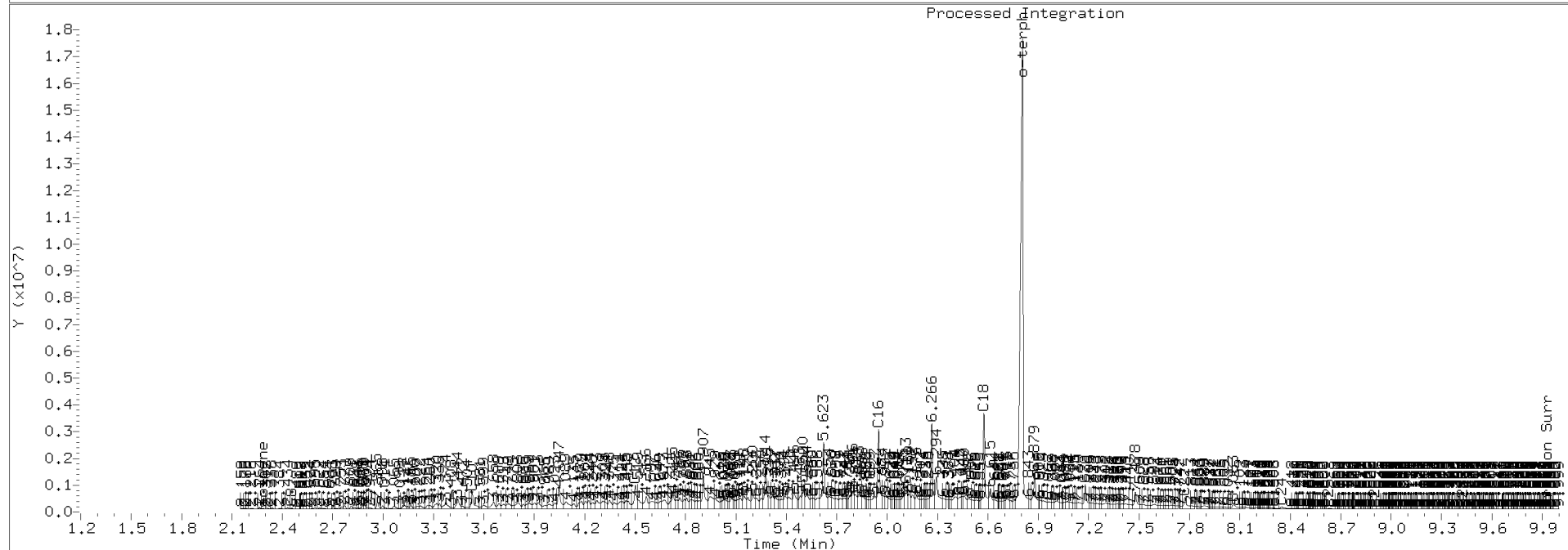
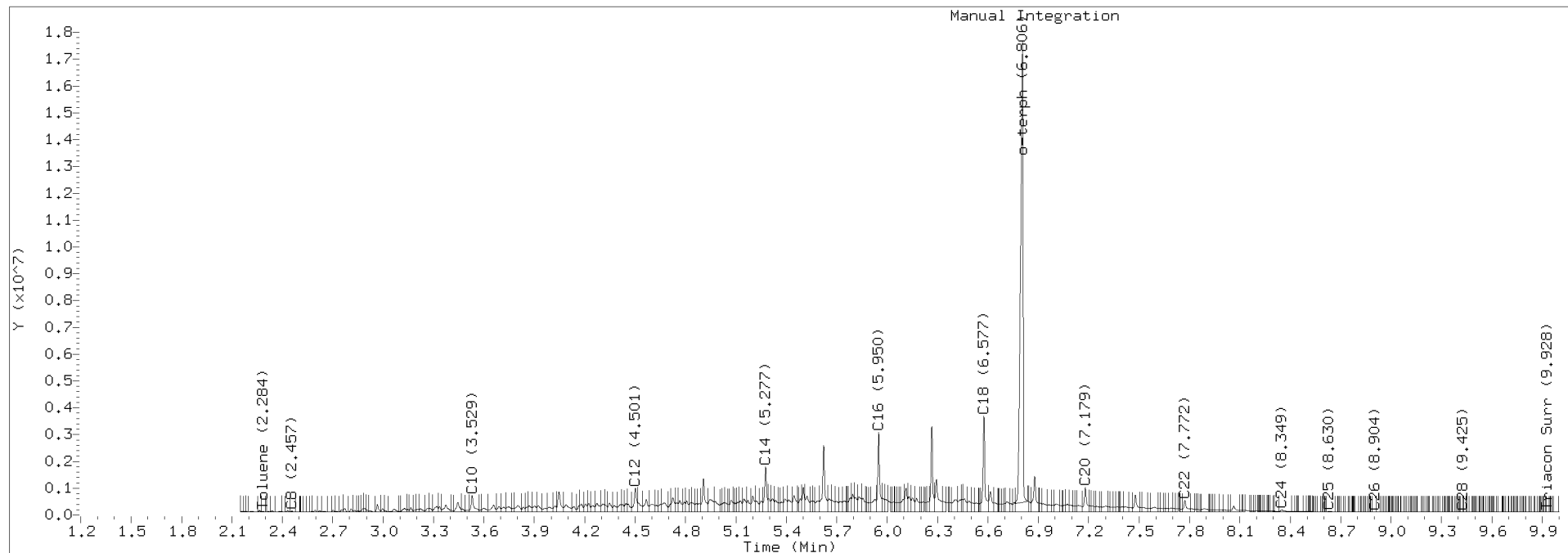
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1235.D Injection: 12-JUL-2022 22:39

Lab ID:SEQ-CCV1





CONTINUING CALIBRATION CHECK
NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: FID4

Calibration: FA00054

Lab File ID: 422G1236.D

Calibration Date: 01/31/2022

Sequence: SKG0126

Injection Date: 07/12/22

Lab Sample ID: SKG0126-CCV2

Injection Time: 22:59

Sequence Name: MOIL CCV

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Motor Oil Range Organics (C24-C38)	A	1000.0	903	132579.1	119705.7		-9.7	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20220712.16\42261236.D
Date: 12-JUL-2022 22:59

Client ID:

Sample Info: SEQ-OCV2

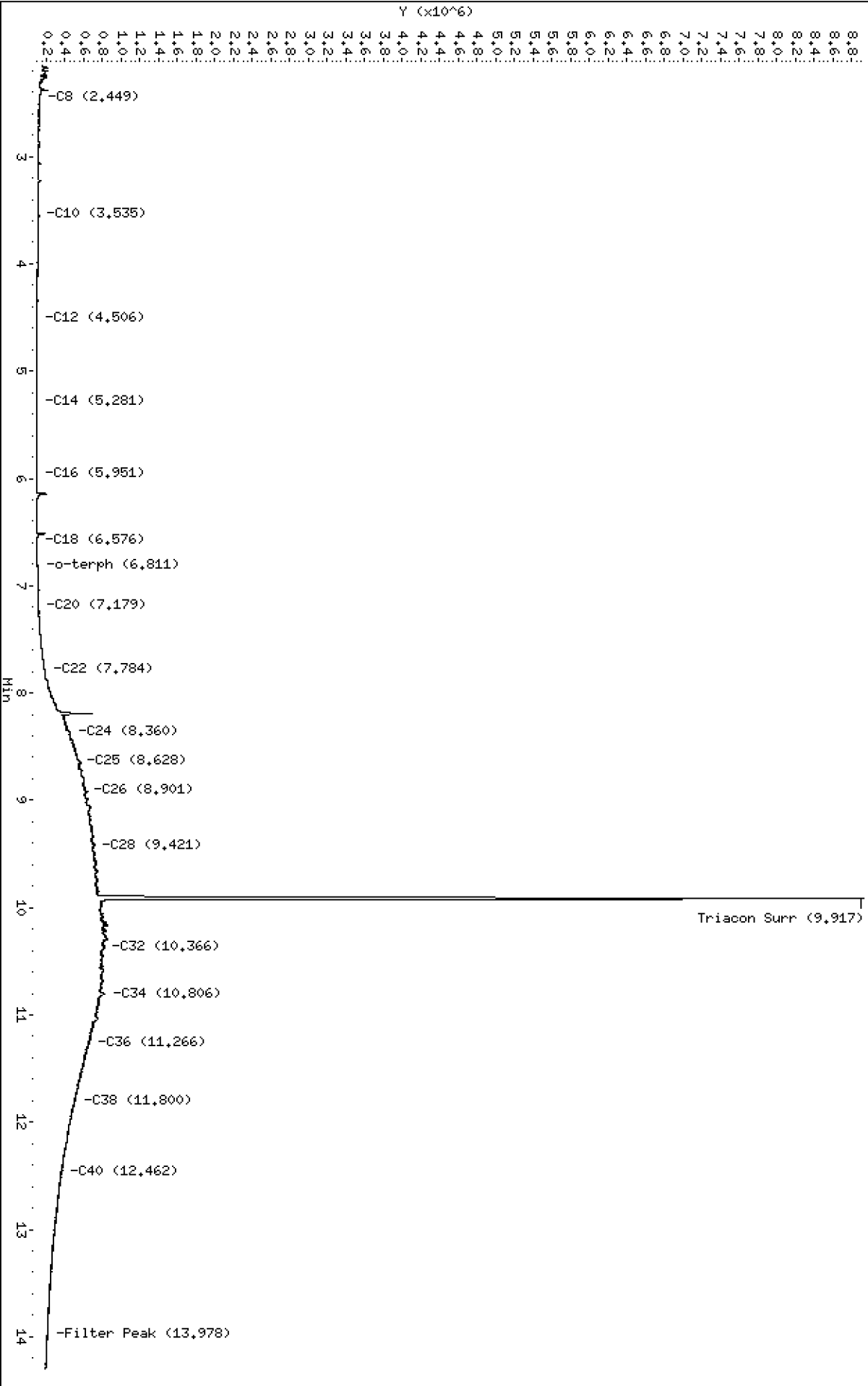
Column phase: RTX-1

Instrument: fid4a,1

Operator: AA/JGR

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20220712.16\42261236.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20220712.b/422G1236.D
Method: 20220712.b\FID4TPH.m
Instrument: fid4a.i, AA/JGR
Report Date: 07/13/2022
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:20-JAN-2022 M.Oil:06-JAN-2022

ARI ID: SEQ-CCV2
Client ID:
Injection: 12-JUL-2022 22:59
Dilution Factor: 1
RT Std: 422G1223.D

FID:4A RESULTS

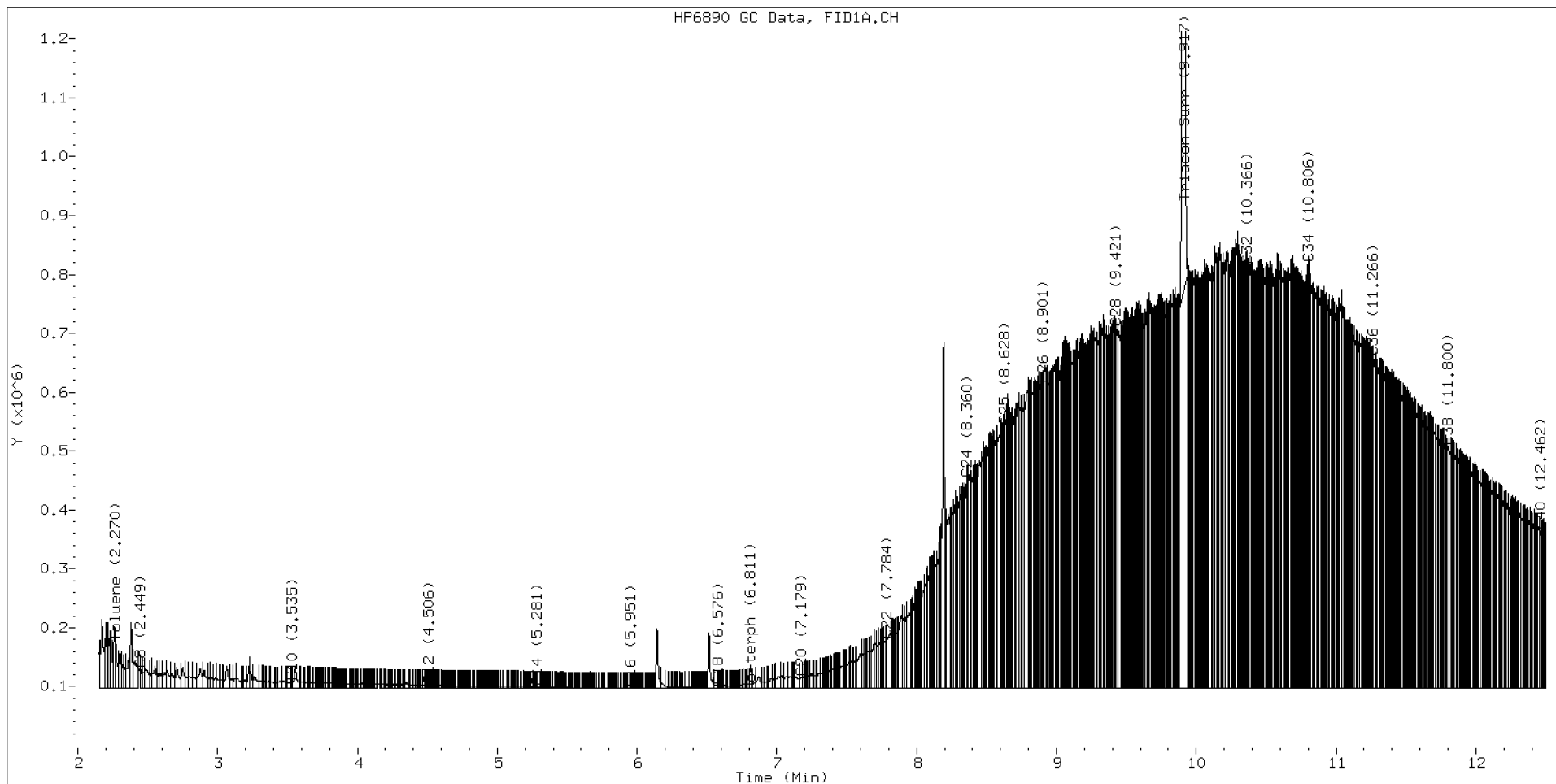
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.449	0.002	32111	29119	WATPHD	(C12-C24)	10210613	64.4
C10	3.535	-0.003	10644	3676	WATPHM	(C24-C38)	119705723	902.9
C12	4.506	0.001	5367	1063	AK102	(C10-C25)	14695456	77.7
C14	5.281	0.001	2809	947	AK103	(C25-C36)	100969747	1020.8
C16	5.951	-0.003	950	449	OR.DIES	(C10-C28)	43079083	227.0
C18	6.576	-0.004	4210	1251				
C20	7.179	-0.009	18796	29484	JET-A	(C10-C18)	926995	5.4
C22	7.784	0.004	82300	40569				
C24	8.360	0.006	355507	290203				
C25	8.628	-0.003	445231	198952				
C26	8.901	-0.000	516201	179863				
C28	9.421	0.001	612323	243091				
C32	10.366	-0.004	718103	355816				
C34	10.806	0.001	720974	462763				
Filter Peak	13.978	-0.002	113331	39419				
C36	11.266	0.001	561898	524530				
C38	11.800	-0.000	409652	343781				
C40	12.462	-0.000	266478	131747				
o-terph	6.811	0.001	7704	8516				
Triacon Surr	9.917	-0.015	8151803	7741276	NAS DIES	(C10-C24)	10693774	56.7

Range Times: NW Diesel(4.506 - 8.353) AK102(3.54 - 8.63) Jet A(3.54 - 6.58)
NW M.Oil(8.35 - 11.80) AK103(8.63 - 11.26) OR Diesel(3.54 - 9.42)

Surrogate	Area	Amount
o-Terphenyl	8516	0.0
Triacontane	7741276	44.4 M

M Indicates the peak was manually integrated

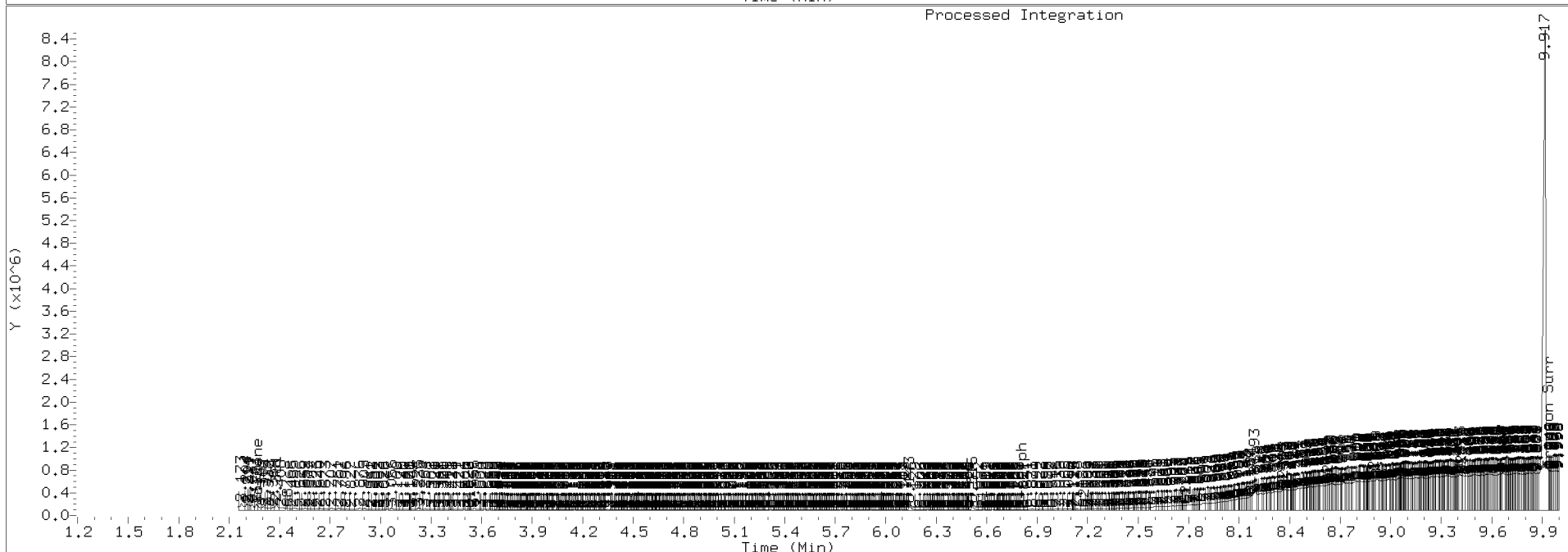
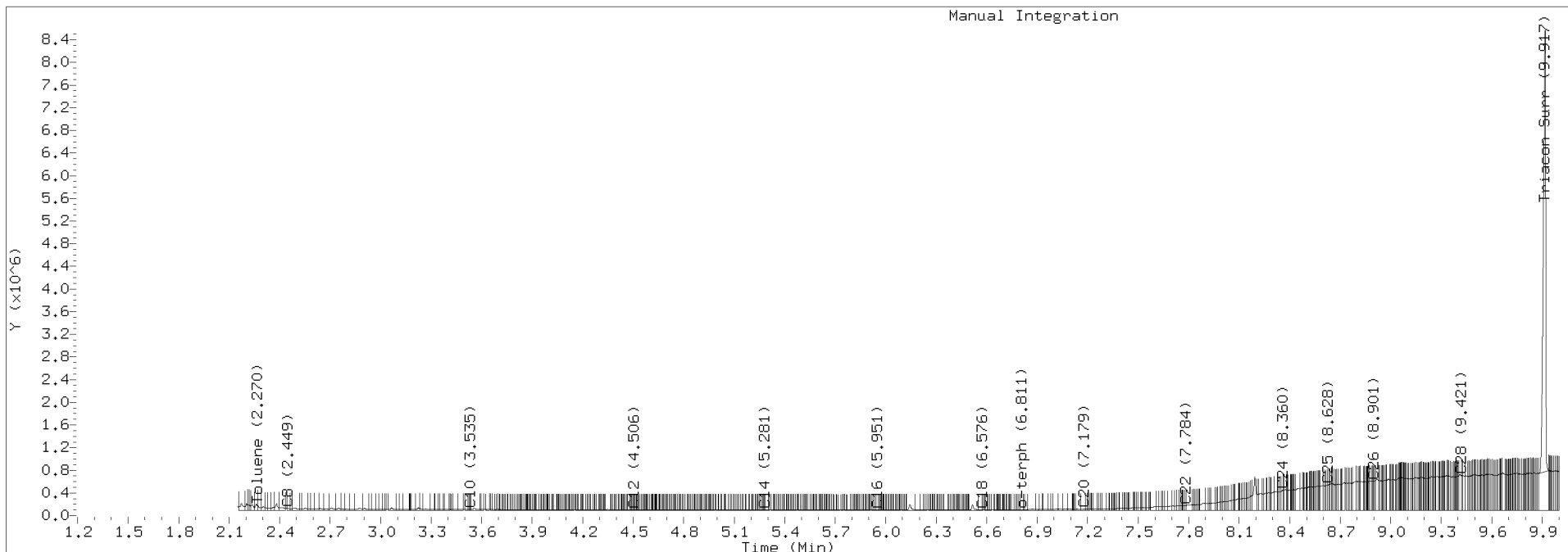
Analyte	RF	Curve Date
o-Terph Surr	203634.1	
Triacon Surr	174221.0	
Gas	15000.0	XX-XXX-XXXX
Diesel	158638.4	20-JAN-2022
Motor Oil	132579.1	06-JAN-2022
AK102	189076.1	20-JAN-2022
AK103	98909.5	06-JAN-2022
JetA	173192.9	03-MAR-2022
OR Diesel	189743.0	20-JAN-2022
NAS Diesel	188673.2	20-JAN-2022



TPH Manual Integrations Report

Datafile: FID4A, 20220712.b/422G1236.D Injection: 12-JUL-2022 22:59

Lab ID:SEQ-CCV2





ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKA0028

Instrument: FID4

Calibration: FA00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Retention Time Standard	SKA0028-IBL1	422A0603.D	NA	01/06/22 09:59
Instrument Blank	SKA0028-IBL2	422A0604.D	NA	01/06/22 10:19
DIESEL 50	SKA0028-CAL1	422A0620.D	NA	01/06/22 17:04
DIESEL 100	SKA0028-CAL2	422A0621.D	NA	01/06/22 17:24
DIESEL 250	SKA0028-CAL3	422A0622.D	NA	01/06/22 17:44
DIESEL 500	SKA0028-CAL4	422A0623.D	NA	01/06/22 18:04
DIESEL 1000	SKA0028-CAL5	422A0624.D	NA	01/06/22 18:23
DIESEL 2500	SKA0028-CAL6	422A0625.D	NA	01/06/22 18:43
MOIL 100	SKA0028-CAL7	422A0626.D	NA	01/06/22 19:03
MOIL 250	SKA0028-CAL8	422A0627.D	NA	01/06/22 19:23
MOIL 500	SKA0028-CAL9	422A0628.D	NA	01/06/22 19:43
MOIL 1000	SKA0028-CALA	422A0629.D	NA	01/06/22 20:02
MOIL 2500	SKA0028-CALB	422A0630.D	NA	01/06/22 20:22
MOIL 5000	SKA0028-CALC	422A0631.D	NA	01/06/22 20:42
DIESEL SCV	SKA0028-SCV1	422A0632.D	NA	01/06/22 21:02
MOIL SCV	SKA0028-SCV2	422A0633.D	NA	01/06/22 21:21
AK103 100	SKA0028-CALD	422A0634.D	NA	01/06/22 21:41
AK103 250	SKA0028-CALE	422A0635.D	NA	01/06/22 22:01
AK103 500	SKA0028-CALF	422A0636.D	NA	01/06/22 22:21
AK103 1000	SKA0028-CALG	422A0637.D	NA	01/06/22 22:40
AK103 2500	SKA0028-CALH	422A0638.D	NA	01/06/22 23:00
AK103 5000	SKA0028-CALI	422A0639.D	NA	01/06/22 23:20



ANALYSIS SEQUENCE

SKA0028

Instrument: FID4
Calibration ID: FA00013

Printed: 1/7/2022 6:12:45PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKA0028-IBL1	QC		1		J002430			
SKA0028-IBL2	QC		2		J012751			
SKA0028-CAL1	QC		3		K000192			
SKA0028-CAL2	QC		4		K000193			
SKA0028-CAL3	QC		5		K000194			
SKA0028-CAL4	QC		6		K000195			
SKA0028-CAL5	QC		7		K000196			
SKA0028-CAL6	QC		8		J012752			
SKA0028-CAL7	QC		9		J011839			
SKA0028-CAL8	QC		10		J011838			
SKA0028-CAL9	QC		11		J011837			
SKA0028-CALA	QC		12		J011836			
SKA0028-CALB	QC		13		J011835			
SKA0028-CALC	QC		14		J010293			
SKA0028-SCV1	QC		15		J009677			
SKA0028-SCV2	QC		16		J012167			
SKA0028-CALD	QC		17		J012178			
SKA0028-CALE	QC		18		J012179			
SKA0028-CALF	QC		19		J012180			
SKA0028-CALG	QC		20		J012181			
SKA0028-CALH	QC		21		J012182			

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____



ANALYSIS SEQUENCE

SKA0028

Instrument: FID4
Calibration ID: FA00013

Printed: 1/7/2022 6:12:45PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKA0028-CALI	QC		22		J009013			
SKA0028-SCV3	QC		23		J012184			

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - fid4a.i\20220106.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	06-JAN-2022	09:20	422A0601.D	1	RINSE	
2	06-JAN-2022	09:40	422A0602.D	1	RINSE	
3	06-JAN-2022	09:59	422A0603.D	1	SKA0028-IBL1	
4	06-JAN-2022	10:19	422A0604.D	1	SKA0028-IBL2	
5	06-JAN-2022	10:39	422A0605.D	1	SKA0028-ICV1	
6	06-JAN-2022	10:59	422A0606.D	1	SKA0028-ICV2	
7	06-JAN-2022	11:19	422A0607.D	1	BKA0056-BLK1	
8	06-JAN-2022	11:38	422A0608.D	1	BKA0056-BS1	
9	06-JAN-2022	11:58	422A0609.D	1	BKA0056-MRL1	
10	06-JAN-2022	12:18	422A0610.D	1	BKA0056-MRL2	
11	06-JAN-2022	12:38	422A0611.D	1	22A0041-01	
12	06-JAN-2022	12:58	422A0612.D	10	22A0041-01	
13	06-JAN-2022	13:17	422A0613.D	10	22A0041-02	
14	06-JAN-2022	13:37	422A0614.D	20	22A0041-01	
15	06-JAN-2022	13:57	422A0615.D	20	22A0041-02	
16	06-JAN-2022	14:17	422A0616.D	20	22A0041-03	
17	06-JAN-2022	14:37	422A0617.D	20	22A0041-04	
18	06-JAN-2022	14:56	422A0618.D	1	SKA0028-CCV1	
19	06-JAN-2022	15:16	422A0619.D	1	SKA0028-CCV2	
20	06-JAN-2022	17:04	422A0620.D	1	SKA0028-CAL1	
21	06-JAN-2022	17:24	422A0621.D	1	SKA0028-CAL2	
22	06-JAN-2022	17:44	422A0622.D	1	SKA0028-CAL3	
23	06-JAN-2022	18:04	422A0623.D	1	SKA0028-CAL4	
24	06-JAN-2022	18:23	422A0624.D	1	SKA0028-CAL5	
25	06-JAN-2022	18:43	422A0625.D	1	SKA0028-CAL6	
26	06-JAN-2022	19:03	422A0626.D	1	SKA0028-CAL7	
27	06-JAN-2022	19:23	422A0627.D	1	SKA0028-CAL8	
28	06-JAN-2022	19:43	422A0628.D	1	SKA0028-CAL9	
29	06-JAN-2022	20:02	422A0629.D	1	SKA0028-CALA	
30	06-JAN-2022	20:22	422A0630.D	1	SKA0028-CALB	
31	06-JAN-2022	20:42	422A0631.D	1	SKA0028-CALC	
32	06-JAN-2022	21:02	422A0632.D	1	SKA0028-SCV1	
33	06-JAN-2022	21:21	422A0633.D	1	SKA0028-SCV2	
34	06-JAN-2022	21:41	422A0634.D	1	SKA0028-CALD	
35	06-JAN-2022	22:01	422A0635.D	1	SKA0028-CALE	
36	06-JAN-2022	22:21	422A0636.D	1	SKA0028-CALF	
37	06-JAN-2022	22:40	422A0637.D	1	SKA0028-CALG	
38	06-JAN-2022	23:00	422A0638.D	1	SKA0028-CALH	
39	06-JAN-2022	23:20	422A0639.D	1	SKA0028-CALI	
40	06-JAN-2022	23:40	422A0640.D	1	SKA0028-SCV3	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220106.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 06-JAN-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0920	422A0601.D	RINSE		1	NO MANUAL INTEGRATION
0940	422A0602.D	RINSE		1	NO MANUAL INTEGRATION
0959	422A0603.D	SKA0028-IBL1		1	Toluene,
1019	422A0604.D	SKA0028-IBL2		1	NO MANUAL INTEGRATION
1039	422A0605.D	SKA0028-ICV1		1	o-terph,
1059	422A0606.D	SKA0028-ICV2		1	Triacon Surr,
1119	422A0607.D	BKA0056-BLK1		1	NO MANUAL INTEGRATION
1138	422A0608.D	BKA0056-BS1		1	o-terph,
1158	422A0609.D	BKA0056-MRL1		1	o-terph, Triacon Surr,
1218	422A0610.D	BKA0056-MRL2		1	o-terph, Triacon Surr,
1238	422A0611.D	22A0041-01		1	o-terph,
1258	422A0612.D	22A0041-01		10	Triacon Surr,
1317	422A0613.D	22A0041-02		10	NO MANUAL INTEGRATION
1337	422A0614.D	22A0041-01		20	o-terph, Triacon Surr,
1357	422A0615.D	22A0041-02		20	o-terph, Triacon Surr,
1417	422A0616.D	22A0041-03		20	o-terph, Triacon Surr,
1437	422A0617.D	22A0041-04		20	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220106.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1456	422A0618.D	SKA0028-CCV1		1	o-terph,
1516	422A0619.D	SKA0028-CCV2		1	NO MANUAL INTEGRATION
1704	422A0620.D	SKA0028-CAL1		1	o-terph,
1724	422A0621.D	SKA0028-CAL2		1	o-terph,
1744	422A0622.D	SKA0028-CAL3		1	o-terph,
1804	422A0623.D	SKA0028-CAL4		1	o-terph,
1823	422A0624.D	SKA0028-CAL5		1	o-terph,
1843	422A0625.D	SKA0028-CAL6		1	o-terph,
1903	422A0626.D	SKA0028-CAL7		1	Triacon Surr,
1923	422A0627.D	SKA0028-CAL8		1	Triacon Surr,
1943	422A0628.D	SKA0028-CAL9		1	Triacon Surr,
2002	422A0629.D	SKA0028-CALA		1	Triacon Surr,
2022	422A0630.D	SKA0028-CALB		1	Triacon Surr,
2042	422A0631.D	SKA0028-CALC		1	Triacon Surr,
2102	422A0632.D	SKA0028-SCV1		1	NO MANUAL INTEGRATION
2121	422A0633.D	SKA0028-SCV2		1	NO MANUAL INTEGRATION
2141	422A0634.D	SKA0028-CALD		1	Triacon Surr,
2201	422A0635.D	SKA0028-CALE		1	Triacon Surr,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220106.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2221	422A0636.D	SKA0028-CALF		1	Triacon Surr,
2240	422A0637.D	SKA0028-CALG		1	Triacon Surr,
2300	422A0638.D	SKA0028-CALH		1	Triacon Surr,
2320	422A0639.D	SKA0028-CALI		1	Triacon Surr,
2340	422A0640.D	SKA0028-SCV3		1	Triacon Surr,

Security Status Report

Date: 07-Jan-2022 18:09

422A0601.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0602.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0603.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0604.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0605.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0606.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0607.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0608.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0609.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0610.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0611.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0612.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0613.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0614.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0615.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0616.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0617.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0618.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0619.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0620.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0621.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0622.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0623.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0624.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0625.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0626.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0627.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0628.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0629.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0630.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0631.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0632.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0633.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0634.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0635.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0636.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0637.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0638.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0639.D	Data Locked	tokala,	07-Jan-2022	17:54
422A0640.D	Data Locked	tokala,	07-Jan-2022	17:54



Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKA0208

Instrument: FID4

Calibration: FA00054

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Retention Time Standard	SKA0208-IBL1	422A2003.D	NA	01/20/22 11:11
Instrument Blank	SKA0208-IBL2	422A2004.D	NA	01/20/22 11:31
DIESEL 50	SKA0208-CAL1	422A2005.D	NA	01/20/22 11:51
DIESEL 100	SKA0208-CAL2	422A2006.D	NA	01/20/22 12:11
DIESEL 250	SKA0208-CAL3	422A2007.D	NA	01/20/22 12:30
DIESEL 500	SKA0208-CAL4	422A2008.D	NA	01/20/22 12:50
DIESEL 1000	SKA0208-CAL5	422A2009.D	NA	01/20/22 13:10
DIESEL 2500	SKA0208-CAL6	422A2010.D	NA	01/20/22 13:30
DIESEL SCV	SKA0208-SCV1	422A2011.D	NA	01/20/22 13:50



ANALYSIS SEQUENCE

SKA0208

Instrument: FID4
Calibration ID: FA00054

Printed: 1/31/2022 12:44:05PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKA0208-IBL1	QC		1		J002430			
SKA0208-IBL2	QC		2		J012751			
SKA0208-CAL1	QC		3		K000192			
SKA0208-CAL2	QC		4		K000193			
SKA0208-CAL3	QC		5		K000194			
SKA0208-CAL4	QC		6		K000195			
SKA0208-CAL5	QC		7		K000196			
SKA0208-CAL6	QC		8		J012752			
SKA0208-SCV1	QC		9		J009677			

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220120.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	20-JAN-2022	10:32	422A2001.D	1	RINSE	
2	20-JAN-2022	10:51	422A2002.D	1	RINSE	
3	20-JAN-2022	11:11	422A2003.D	1	SKA0208-IBL1	
4	20-JAN-2022	11:31	422A2004.D	1	SKA0208-IBL2	
5	20-JAN-2022	11:51	422A2005.D	1	SKA0208-CAL1	
6	20-JAN-2022	12:11	422A2006.D	1	SKA0208-CAL2	
7	20-JAN-2022	12:30	422A2007.D	1	SKA0208-CAL3	
8	20-JAN-2022	12:50	422A2008.D	1	SKA0208-CAL4	
9	20-JAN-2022	13:10	422A2009.D	1	SKA0208-CAL5	
10	20-JAN-2022	13:30	422A2010.D	1	SKA0208-CAL6	
11	20-JAN-2022	13:50	422A2011.D	1	SKA0208-SCV1	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220120.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 20-JAN-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1032	422A2001.D	RINSE		1	NO MANUAL INTEGRATION
1051	422A2002.D	RINSE		1	NO MANUAL INTEGRATION
1111	422A2003.D	SKA0208-IBL1		1	NO MANUAL INTEGRATION
1131	422A2004.D	SKA0208-IBL2		1	NO MANUAL INTEGRATION
1151	422A2005.D	SKA0208-CAL1		1	o-terph,
1211	422A2006.D	SKA0208-CAL2		1	o-terph,
1230	422A2007.D	SKA0208-CAL3		1	o-terph,
1250	422A2008.D	SKA0208-CAL4		1	o-terph,
1310	422A2009.D	SKA0208-CAL5		1	o-terph,
1330	422A2010.D	SKA0208-CAL6		1	o-terph,
1350	422A2011.D	SKA0208-SCV1		1	NO MANUAL INTEGRATION

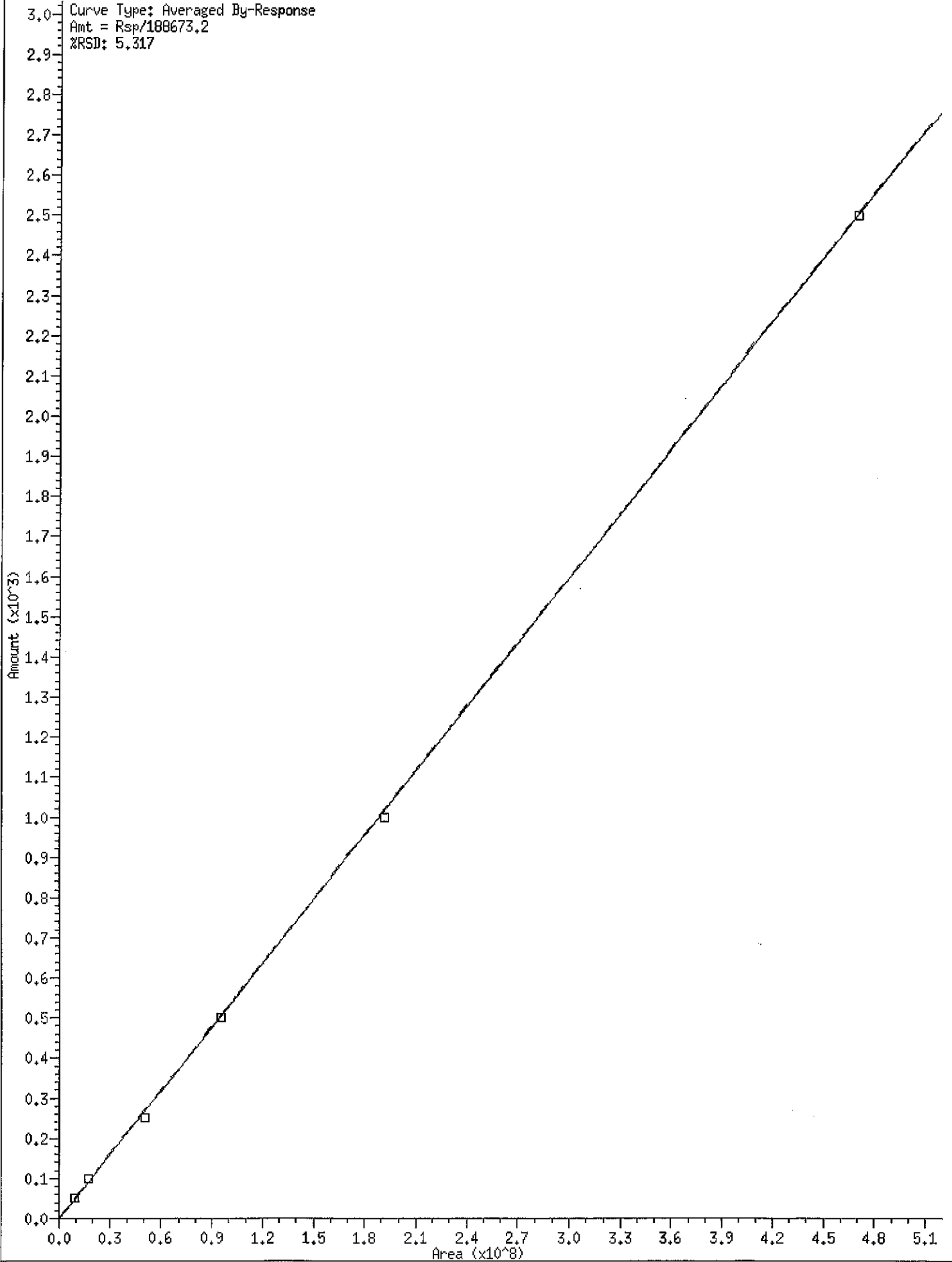
Security Status Report

Date: 31-Jan-2022 12:44

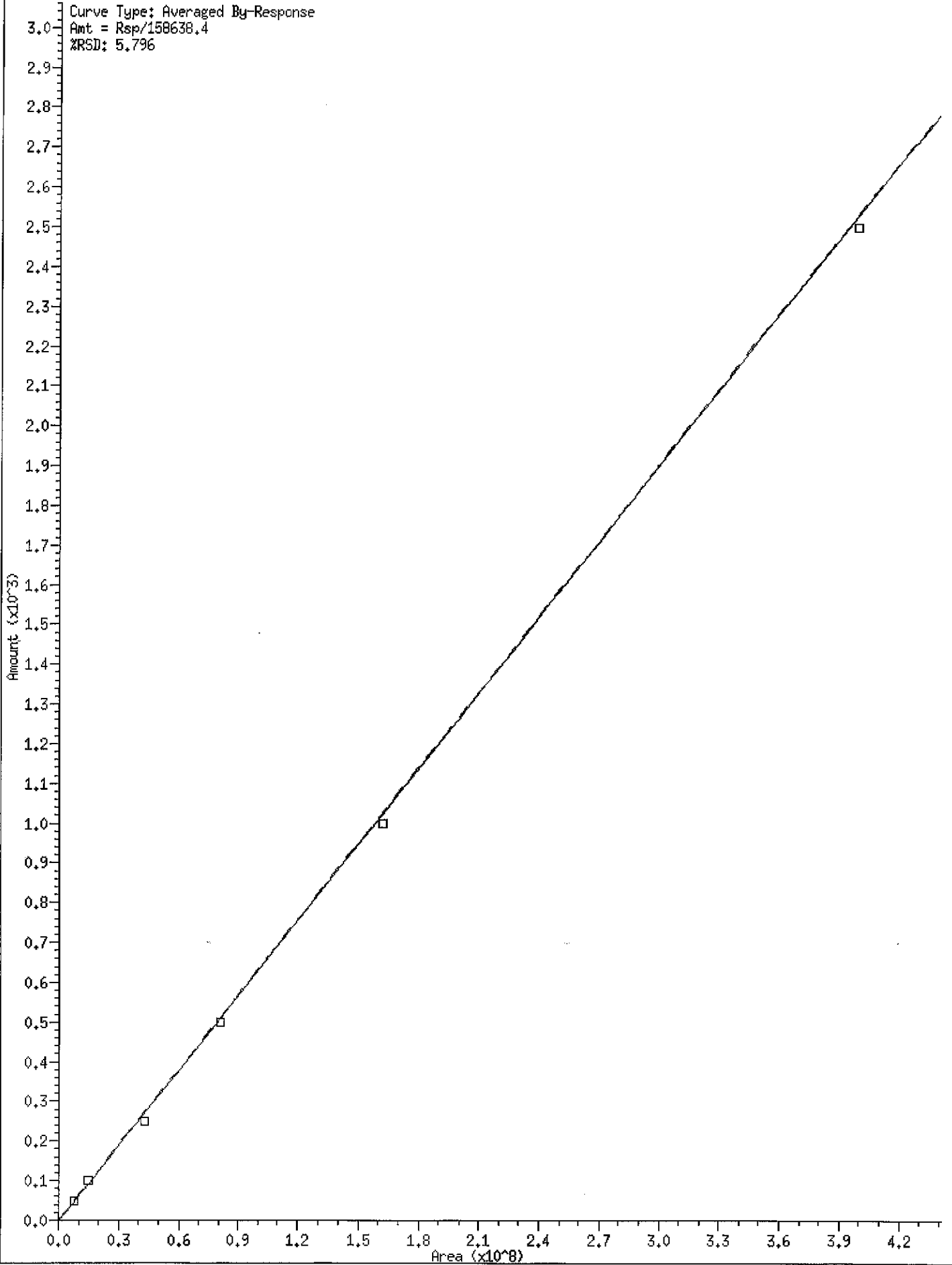
422A2001.D	Data Locked	victoria, 21-Jan-2022 13:24
422A2002.D	Data Locked	victoria, 21-Jan-2022 13:24
422A2003.D	Data Locked	victoria, 21-Jan-2022 13:24
422A2004.D	Data Locked	victoria, 21-Jan-2022 13:24
422A2005.D	Data Locked	victoria, 21-Jan-2022 13:24
422A2006.D	Data Locked	victoria, 21-Jan-2022 13:24
422A2007.D	Data Locked	victoria, 21-Jan-2022 13:24
422A2008.D	Data Locked	victoria, 21-Jan-2022 13:24
422A2009.D	Data Locked	victoria, 21-Jan-2022 13:24
422A2010.D	Data Locked	victoria, 21-Jan-2022 13:24
422A2011.D	Data Locked	victoria, 28-Jan-2022 13:52

40 NAS Diesel

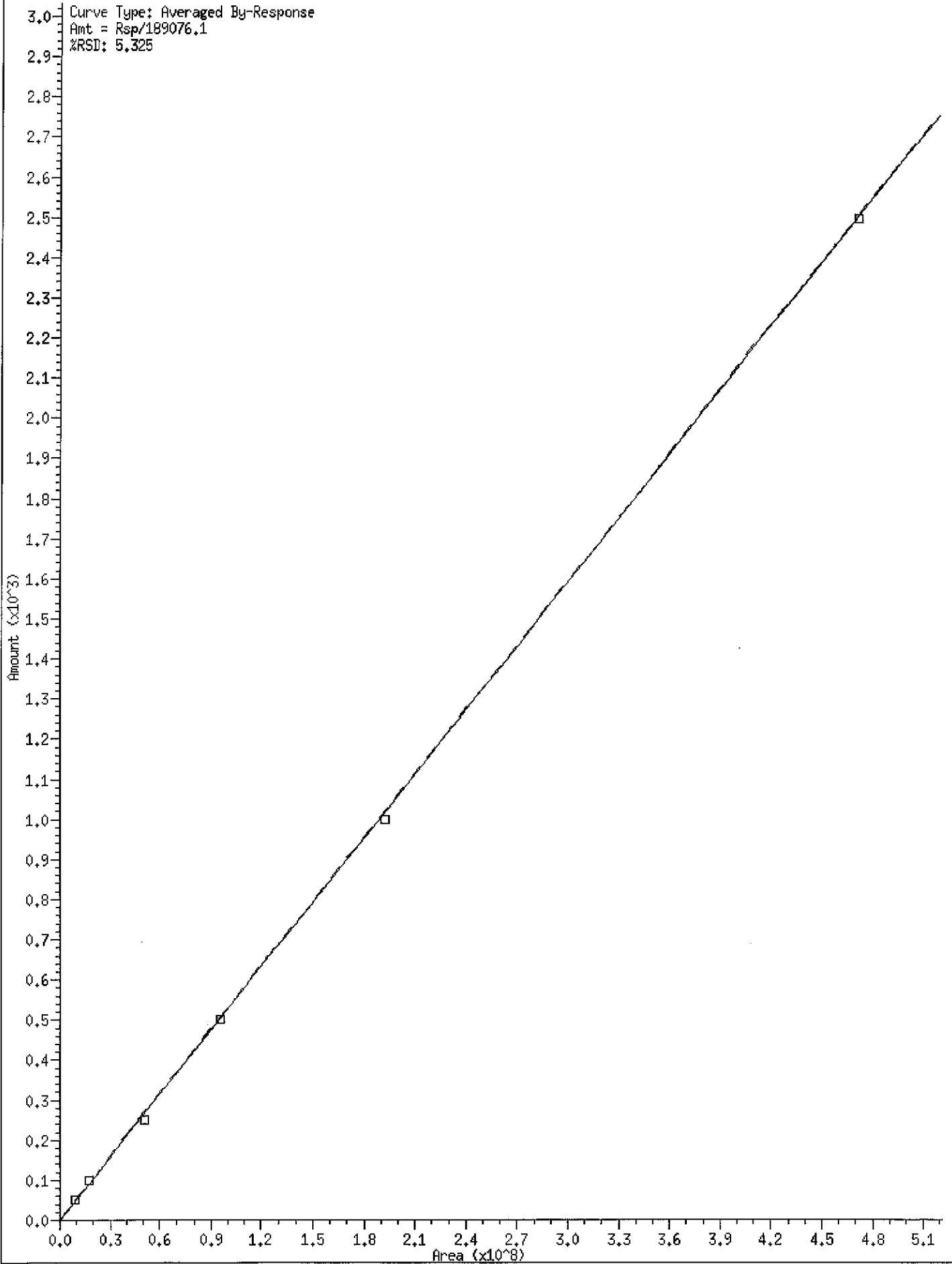
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%RSD: 5.317



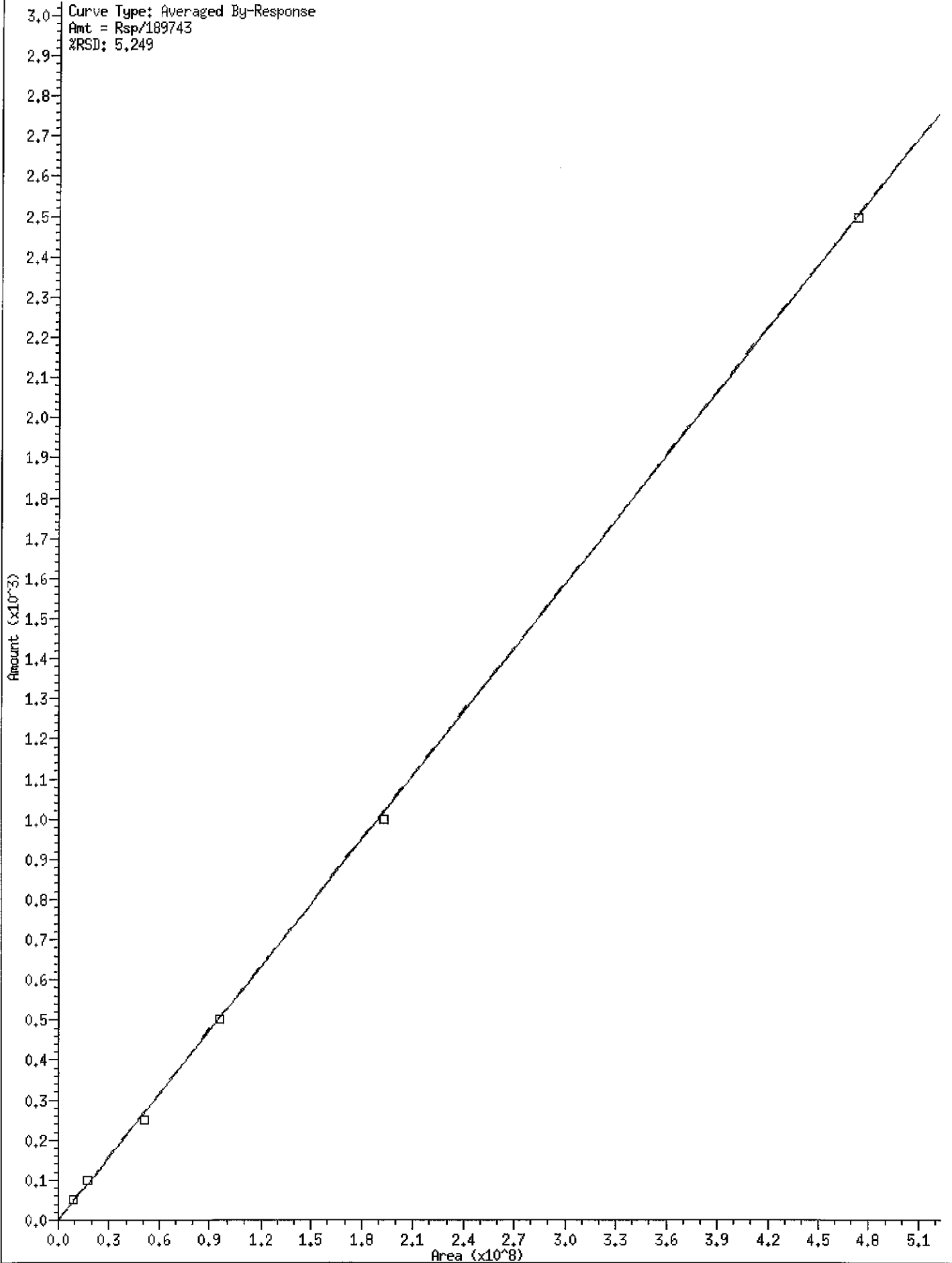
Curve Type: Averaged By-Response
Amt = Rsp/158638.4
%RSD: 5.796



Curve Type: Averaged By-Response
Amt = Resp/189076.1
%RSD: 5.325



39 OR Diesel

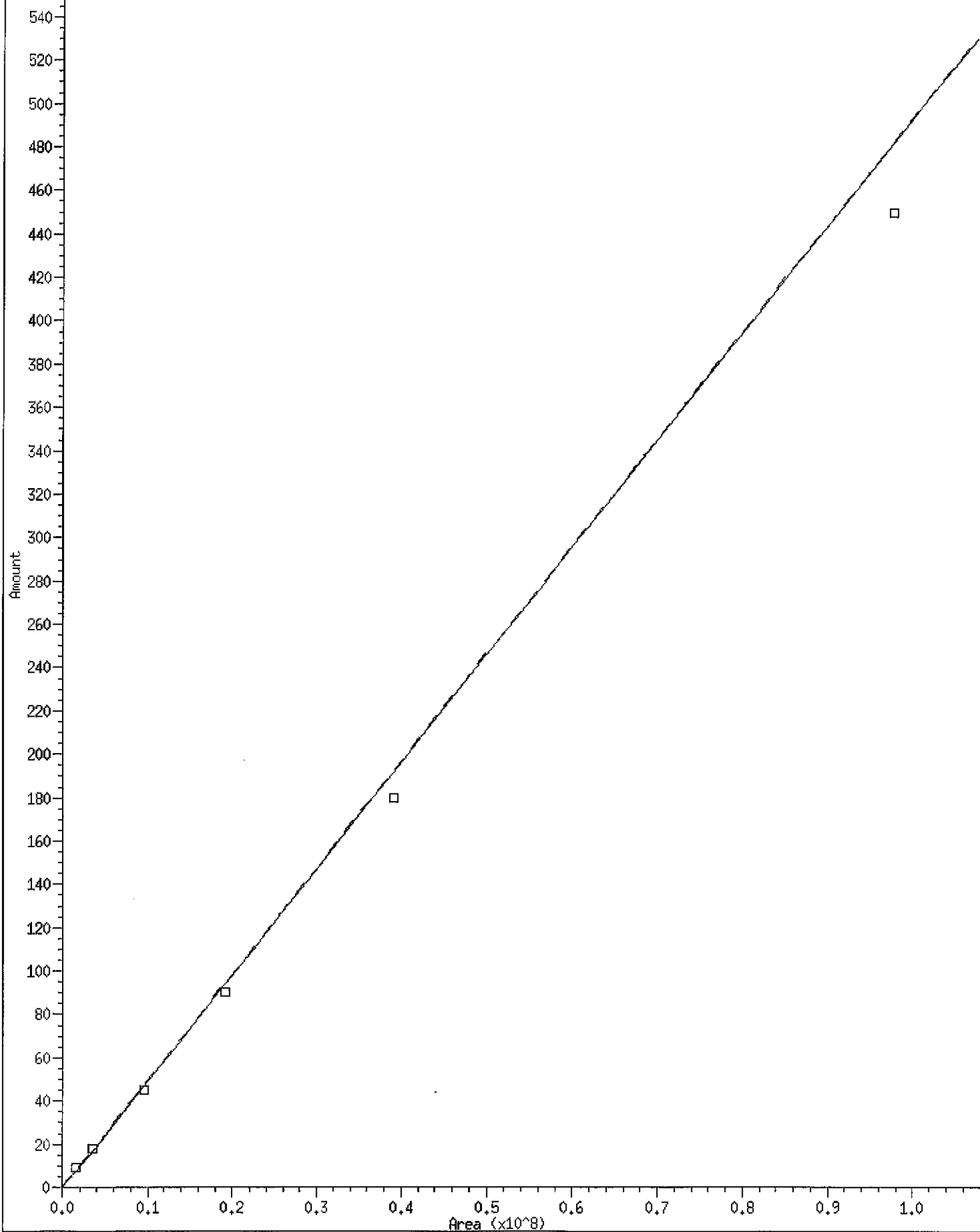


* 8 a-terph

Curve Type: Averaged By-Response

Amt = Rsp/203634.1

%RSD: 9.902



ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220120.b\FID4TPH.m
Batch File: \\target\share\chem2\fid4a.i\20220120.b
Inst ID: fid4a.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08
FILENAME:	422A2003	422A2004	422A2005	422A2006	422A2007	422A2008	422A2009	422A2010
INJ. DATE:	20-JAN-2022	20-JAN-2022	20-JAN-2022	20-JAN-2022	20-JAN-2022	20-JAN-2022	20-JAN-2022	20-JAN-2022
INJ. TIME:	11:11	11:31	11:51	12:11	12:30	12:50	13:10	13:30

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	1.395	1.393	1.389	1.400	1.389	1.389	1.389	1.394	1.395	1.295-1.495	1.392	0.004
38 NewCpnd_31	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
35 Mineral Oil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.015	0.965-1.065	+++++	+++++
41 Mineral Spirits	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
2 C8	1.543	1.540	1.535	1.552	1.536	1.536	1.536	1.542	1.543	1.443-1.643	1.540	0.006
3 C10	2.787	2.785	2.783	2.783	2.783	2.783	2.784	2.786	2.787	2.737-2.837	2.784	0.002
4 C12	3.848	3.848	3.844	3.845	3.844	3.845	3.847	3.851	3.848	3.798-3.898	3.847	0.003
5 C14	4.657	4.657	4.653	4.654	4.654	4.655	4.658	4.664	4.657	4.607-4.707	4.657	0.003
6 C16	5.345	5.347	5.340	5.341	5.342	5.344	5.347	5.355	5.345	5.295-5.395	5.345	0.005
7 C18	5.962	5.956	5.954	5.956	5.958	5.960	5.965	5.975	5.962	5.912-6.012	5.961	0.007
8 o-terph	6.155	6.154	6.133	6.137	6.146	6.154	6.165	6.191	6.155	6.105-6.205	6.154	0.018
9 C20	6.548	6.545	6.543	6.542	6.543	6.543	6.545	6.551	6.548	6.498-6.598	6.545	0.003
10 C22	7.130	7.128	7.123	7.123	7.123	7.123	7.124	7.127	7.130	7.080-7.180	7.125	0.003
11 C24	7.697	7.695	7.695	7.694	7.691	7.690	7.690	7.691	7.697	7.647-7.747	7.693	0.003
12 C25	7.974	7.976	7.972	7.970	7.968	7.968	7.967	7.966	7.974	7.924-8.024	7.970	0.004
13 C26	8.244	8.243	8.242	8.244	8.240	8.238	8.237	8.236	8.244	8.194-8.294	8.241	0.003
14 C28	8.763	8.757	8.764	8.765	8.765	8.759	8.767	8.756	8.763	8.713-8.813	8.762	0.004

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20220120.b\FID4TPH.m
 Batch File: \\target\share\chem2\fid4a.i\20220120.b
 Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
15 Triacon Surr	9.277	9.273	9.273	9.280	9.275	9.286	9.266	9.273	9.277	9.227-9.327	9.276	0.006
16 C32	9.717	9.711	9.713	9.720	9.711	9.709	9.718	9.706	9.717	9.667-9.767	9.713	0.005
17 C34	10.155	10.156	10.147	10.153	10.158	10.154	10.156	10.161	10.155	10.105-10.205	10.155	0.004
18 Filter Peak	13.962	13.962	13.963	13.963	13.962	13.960	13.960	13.961	13.962	13.862-14.062	13.962	0.001
19 C36	10.568	10.567	10.572	10.567	10.567	10.573	10.563	10.567	10.568	10.518-10.618	10.568	0.003
20 C38	10.974	10.980	10.978	10.975	10.973	10.970	10.975	10.978	10.974	10.924-11.024	10.975	0.003
21 C40	11.438	11.438	11.441	11.440	11.441	11.434	11.439	11.440	11.438	11.388-11.488	11.439	0.002
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.899	0.849-0.949	+++++	+++++
37 ACreosote	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 Jet A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.024	0.974-1.074	+++++	+++++
30 NW Moil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.885	0.835-0.935	+++++	+++++
31 NW AK102	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.803	0.753-0.853	+++++	+++++
32 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.812	0.762-0.862	+++++	+++++
33 AK103	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.344	1.294-1.394	+++++	+++++
36 ABunker C	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.985	0.935-1.035	+++++	+++++
39 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
40 NAS Diesel	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKC0073

Instrument: FID4

Calibration: FA00054

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Retention Time Standard	SKC0073-IBL1	422C0303.D	NA	03/03/22 09:36
Instrument Blank	SKC0073-IBL2	422C0304.D	NA	03/03/22 09:55
DIESEL ICV	SKC0073-ICV1	422C0305.D	NA	03/03/22 10:15
MOIL ICV	SKC0073-ICV2	422C0306.D	NA	03/03/22 10:35
ZZZZZ	BKB0614-BLK1	422C0307.D	Water	03/03/22 10:55
ZZZZZ	BKB0614-BS1	422C0308.D	Water	03/03/22 11:14
ZZZZZ	BKB0614-BSD1	422C0309.D	Water	03/03/22 11:34
ZZZZZ	22B0355-01	422C0310.D	Water	03/03/22 11:54
ZZZZZ	22B0358-01	422C0311.D	Water	03/03/22 12:14
ZZZZZ	BKB0555-BLK1	422C0312.D	Water	03/03/22 12:34
ZZZZZ	BKB0555-BS1	422C0313.D	Water	03/03/22 12:53
ZZZZZ	BKB0555-BSD1	422C0314.D	Water	03/03/22 13:13
ZZZZZ	22B0322-01	422C0315.D	Water	03/03/22 13:33
ZZZZZ	22B0322-02	422C0316.D	Water	03/03/22 13:53
ZZZZZ	22B0322-03	422C0317.D	Water	03/03/22 14:13
ZZZZZ	22B0322-04	422C0318.D	Water	03/03/22 14:32
ZZZZZ	22B0322-05	422C0319.D	Water	03/03/22 14:52
ZZZZZ	22B0322-06	422C0320.D	Water	03/03/22 15:12
ZZZZZ	22B0322-07	422C0321.D	Water	03/03/22 15:32
ZZZZZ	22B0322-08	422C0322.D	Water	03/03/22 15:52
DIESEL CCV	SKC0073-CCV1	422C0323.D	NA	03/03/22 16:12
MOIL CCV	SKC0073-CCV2	422C0324.D	NA	03/03/22 16:31
ZZZZZ	22B0328-01	422C0328.D	Solid	03/03/22 17:51
ZZZZZ	22B0328-02	422C0329.D	Solid	03/03/22 18:10
ZZZZZ	22B0328-03	422C0330.D	Solid	03/03/22 18:30
ZZZZZ	22B0328-04	422C0331.D	Solid	03/03/22 18:50
ZZZZZ	BKB0476-BLK1	422C0332.D	Water	03/03/22 19:10
ZZZZZ	BKB0476-BS1	422C0333.D	Water	03/03/22 19:30
ZZZZZ	22B0279-01	422C0334.D	Water	03/03/22 19:49



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKC0073

Instrument: FID4

Calibration: FA00054

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BKB0553-BLK1	422C0335.D	Solid	03/03/22 20:09
ZZZZZ	BKB0553-BS1	422C0336.D	Solid	03/03/22 20:29
ZZZZZ	BKB0553-BSD1	422C0337.D	Solid	03/03/22 20:48
ZZZZZ	22B0199-01	422C0338.D	Solid	03/03/22 21:08
DIESEL CCV	SKC0073-CCV3	422C0339.D	NA	03/03/22 21:28
MOIL CCV	SKC0073-CCV4	422C0340.D	NA	03/03/22 21:47
JETA 500	SKC0073-CAL1	422C0341.D	NA	03/03/22 22:07
JETA ICV	SKC0073-ICV3	422C0341.D	NA	03/03/22 22:07
ZZZZZ	BKB0527-BLK1	422C0342.D	Water	03/03/22 22:27
ZZZZZ	BKB0527-BS1	422C0343.D	Water	03/03/22 22:46
ZZZZZ	BKB0527-BSD1	422C0344.D	Water	03/03/22 23:06
ZZZZZ	22B0296-01	422C0345.D	Water	03/03/22 23:26
ZZZZZ	22B0296-02	422C0346.D	Water	03/03/22 23:45
ZZZZZ	22B0296-03	422C0347.D	Water	03/04/22 00:05
ZZZZZ	22B0296-04	422C0348.D	Water	03/04/22 00:25
ZZZZZ	BKB0375-BLK1	422C0349.D	Water	03/04/22 00:44
ZZZZZ	BKB0375-BS1	422C0350.D	Water	03/04/22 01:04
ZZZZZ	BKB0375-BSD1	422C0351.D	Water	03/04/22 01:24
ZZZZZ	22B0208-01	422C0352.D	Water	03/04/22 01:43
ZZZZZ	22B0208-02	422C0353.D	Water	03/04/22 02:03
ZZZZZ	22B0219-01	422C0354.D	Water	03/04/22 02:23
ZZZZZ	22B0220-01	422C0355.D	Water	03/04/22 02:42
ZZZZZ	22B0220-02	422C0356.D	Water	03/04/22 03:02
ZZZZZ	22B0220-03	422C0357.D	Water	03/04/22 03:22
DIESEL CCV	SKC0073-CCV5	422C0358.D	NA	03/04/22 03:41
MOIL CCV	SKC0073-CCV6	422C0359.D	NA	03/04/22 04:01
JETA CCV	SKC0073-CCV7	422C0360.D	NA	03/04/22 04:21



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKE0009

Instrument: FID4

Calibration: FA00054

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Retention Time Standard	SKE0009-IBL1	422D2103.D	NA	04/21/22 16:50
Instrument Blank	SKE0009-IBL2	422D2104.D	NA	04/21/22 17:10
BUN KERC	SKE0009-CAL1	422D2105.D	NA	04/21/22 17:30
BUN KERC	SKE0009-CAL2	422D2106.D	NA	04/21/22 17:50
BUN KERC	SKE0009-CAL3	422D2107.D	NA	04/21/22 18:10
BUN KERC	SKE0009-CAL4	422D2108.D	NA	04/21/22 18:30
BUN KERC	SKE0009-CAL5	422D2109.D	NA	04/21/22 18:50
BUN KERC	SKE0009-CAL6	422D2110.D	NA	04/21/22 19:10
DIESEL ICV	SKE0009-ICV1	422D2111.D	NA	04/21/22 19:29
MOIL ICV	SKE0009-ICV2	422D2112.D	NA	04/21/22 19:49
A/SBunkerC CCV	SKE0009-ICV3	422D2113.D	NA	04/21/22 20:09
ZZZZZ	BKD0059-BLK1	422D2114.D	Water	04/21/22 20:29
ZZZZZ	BKD0059-BS1	422D2115.D	Water	04/21/22 20:49
ZZZZZ	BKD0059-BSD1	422D2116.D	Water	04/21/22 21:09
ZZZZZ	22D0015-01	422D2117.D	Water	04/21/22 21:29
ZZZZZ	22D0015-02	422D2118.D	Water	04/21/22 21:48
ZZZZZ	22D0015-03	422D2121.D	Water	04/21/22 22:48
ZZZZZ	22D0015-04	422D2122.D	Water	04/21/22 23:08
ZZZZZ	22D0015-05	422D2123.D	Water	04/21/22 23:27
ZZZZZ	22D0015-06	422D2124.D	Water	04/21/22 23:47
ZZZZZ	22D0015-07	422D2125.D	Water	04/22/22 00:07
ZZZZZ	22D0015-08	422D2126.D	Water	04/22/22 00:27
ZZZZZ	22D0015-09	422D2127.D	Water	04/22/22 00:46
ZZZZZ	22D0015-10	422D2128.D	Water	04/22/22 01:06
DIESEL CCV	SKE0009-CCV1	422D2129.D	NA	04/22/22 01:26
MOIL CCV	SKE0009-CCV2	422D2130.D	NA	04/22/22 01:45
A/SBunkerC CCV	SKE0009-CCV3	422D2131.D	NA	04/22/22 02:05
ZZZZZ	22D0015-11	422D2132.D	Water	04/22/22 02:25
ZZZZZ	22D0015-12	422D2133.D	Water	04/22/22 02:44



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKE0009

Instrument: FID4

Calibration: FA00054

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
<i>ZZZZZ</i>	22D0015-13	422D2134.D	Water	04/22/22 03:04
<i>ZZZZZ</i>	22D0015-14	422D2135.D	Water	04/22/22 03:24
DIESEL CCV	SKE0009-CCV4	422D2136.D	NA	04/22/22 03:43
MOIL CCV	SKE0009-CCV5	422D2137.D	NA	04/22/22 04:03
A/SBunkerC CCV	SKE0009-CCV6	422D2138.D	NA	04/22/22 04:23



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKG0101

Instrument: FID4

Calibration: FA00054

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Retention Time Standard	SKG0101-IBL1	422G1203.D	NA	07/12/22 09:20
Instrument Blank	SKG0101-IBL2	422G1204.D	NA	07/12/22 09:40
DIESEL ICV	SKG0101-ICV1	422G1205.D	NA	07/12/22 10:00
MOIL ICV	SKG0101-ICV2	422G1206.D	NA	07/12/22 10:20
ZZZZZ	BKG0171-BLK1	422G1207.D	Solid	07/12/22 10:40
ZZZZZ	BKG0171-BS1	422G1208.D	Solid	07/12/22 11:00
ZZZZZ	22G0101-02	422G1209.D	Solid	07/12/22 11:20
DIESEL CCV	SKG0101-CCV1	422G1210.D	NA	07/12/22 11:40
MOIL CCV	SKG0101-CCV2	422G1211.D	NA	07/12/22 12:00
Blank	BKG0167-BLK1	422G1212.D	Water	07/12/22 12:21
LCS	BKG0167-BS1	422G1213.D	Water	07/12/22 12:41
LCS Dup	BKG0167-BSD1	422G1214.D	Water	07/12/22 13:01
Z1A-1-PW	22G0121-01	422G1215.D	Water	07/12/22 13:21
Z1A-7-PW	22G0121-03	422G1217.D	Water	07/12/22 14:01
Z1A-10-PW	22G0121-04	422G1218.D	Water	07/12/22 14:21
DIESEL CCV	SKG0101-CCV3	422G1219.D	NA	07/12/22 14:42
MOIL CCV	SKG0101-CCV4	422G1220.D	NA	07/12/22 15:02



ANALYSIS SEQUENCE

SKG0101

Instrument: FID4
Calibration ID: FA00054

Printed: 7/13/2022 4:49:53PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKG0101-IBL1	QC		1		K005945			
SKG0101-IBL2	QC		2		J012751			
SKG0101-ICV1	QC		3		J012753			
SKG0101-ICV2	QC		4		K003637			
BKG0171-BLK1	QC		5					
BKG0171-BS1	QC		6					
22G0101-02	PH NW (Extractables) low lev	A 01	7				EnvironMETeo (EMET)	
SKG0101-CCV1	QC		8		J012753			
SKG0101-CCV2	QC		9		K003637			
BKG0167-BLK1	QC		10					
BKG0167-BS1	QC		11					
BKG0167-BSD1	QC		12					
22G0121-01	PH NW (Extractables) low lev	A 01	13				GeoEngineers	
22G0121-03	PH NW (Extractables) low lev	A 01	14				GeoEngineers	
22G0121-04	PH NW (Extractables) low lev	A 01	15				GeoEngineers	
SKG0101-CCV3	QC		16		J012753			
SKG0101-CCV4	QC		17		K003637			

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

GC LOG SUMMARY FOR DATABATCH - fid4a.i\20220712.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	12-JUL-2022	08:41	422G1201.D	1	RINSE	
2	12-JUL-2022	09:00	422G1202.D	1	RINSE	
3	12-JUL-2022	09:20	422G1203.D	1	SEQ-IBL1	
4	12-JUL-2022	09:40	422G1204.D	1	SEQ-IBL2	
5	12-JUL-2022	10:00	422G1205.D	1	SEQ-ICV1	
6	12-JUL-2022	10:20	422G1206.D	1	SEQ-ICV2	
7	12-JUL-2022	10:40	422G1207.D	1	BKG0171-BLK1	
8	12-JUL-2022	11:00	422G1208.D	1	BKG0171-BS1	
9	12-JUL-2022	11:20	422G1209.D	100	22G101-2RE01	
10	12-JUL-2022	11:40	422G1210.D	1	SEQ-CCV1	
11	12-JUL-2022	12:00	422G1211.D	1	SEQ-CCV2	
12	12-JUL-2022	12:21	422G1212.D	1	BKG0167-BLK1	
13	12-JUL-2022	12:41	422G1213.D	1	BKG0167-BS1	
14	12-JUL-2022	13:01	422G1214.D	1	BKG0167-BSD1	
15	12-JUL-2022	13:21	422G1215.D	1	22G0121-01	
16	12-JUL-2022	13:41	422G1216.D	1	22G0121-02	
17	12-JUL-2022	14:01	422G1217.D	1	22G0121-03	
18	12-JUL-2022	14:21	422G1218.D	1	22G0121-04	
19	12-JUL-2022	14:42	422G1219.D	1	SEQ-CCV3	
20	12-JUL-2022	15:02	422G1220.D	1	SEQ-CCV4	
21	12-JUL-2022	17:57	422G1221.D	1	RINSE	
22	12-JUL-2022	18:17	422G1222.D	1	RINSE	
23	12-JUL-2022	18:38	422G1223.D	1	SEQ-IBL1	
24	12-JUL-2022	18:58	422G1224.D	1	SEQ-IBL2	
25	12-JUL-2022	19:18	422G1225.D	1	SEQ-ICV1	
26	12-JUL-2022	19:38	422G1226.D	1	SEQ-ICV2	
27	12-JUL-2022	19:58	422G1227.D	1	BKG0175-BLK1	
28	12-JUL-2022	20:18	422G1228.D	1	BKG0175-BS1	
29	12-JUL-2022	20:38	422G1229.D	1	BKG0175-BSD1	
30	12-JUL-2022	20:59	422G1230.D	1	22G0105-01	
31	12-JUL-2022	21:19	422G1231.D	5	22G0105-01	
32	12-JUL-2022	21:39	422G1232.D	1	22G0107-01	
33	12-JUL-2022	21:59	422G1233.D	10	22G0107-01	
34	12-JUL-2022	22:19	422G1234.D	5	22G0121-02	
35	12-JUL-2022	22:39	422G1235.D	1	SEQ-CCV1	
36	12-JUL-2022	22:59	422G1236.D	1	SEQ-CCV2	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220712.b

ARI Job No.: SEQ- Method: FID4TPH.m Instrument: fid4a.i Date: 12-JUL-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0920	422G1203.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
0940	422G1204.D	SEQ-IBL2		1	NO MANUAL INTEGRATION
1000	422G1205.D	SEQ-ICV1		1	o-terph,
1020	422G1206.D	SEQ-ICV2		1	Triacon Surr,
1040	422G1207.D	BKG0171-BLK1		1	NO MANUAL INTEGRATION
1100	422G1208.D	BKG0171-BS1		1	o-terph,
1120	422G1209.D	22G101-2RE01		100	NO MANUAL INTEGRATION
1140	422G1210.D	SEQ-CCV1		1	o-terph,
1200	422G1211.D	SEQ-CCV2		1	Triacon Surr,
1221	422G1212.D	BKG0167-BLK1		1	NO MANUAL INTEGRATION
1241	422G1213.D	BKG0167-BS1		1	o-terph,
1301	422G1214.D	BKG0167-BSD1		1	o-terph,
1321	422G1215.D	22G0121-01		1	o-terph, Triacon Surr,
1401	422G1217.D	22G0121-03		1	o-terph, Triacon Surr,
1421	422G1218.D	22G0121-04		1	o-terph, Triacon Surr,
1442	422G1219.D	SEQ-CCV3		1	o-terph,
1502	422G1220.D	SEQ-CCV4		1	Triacon Surr,

Security Status Report

Date: 13-Jul-2022 16:53

422G1203.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1204.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1205.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1206.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1207.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1208.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1209.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1210.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1211.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1212.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1213.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1214.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1215.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1217.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1218.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1219.D	Data Locked	alfonso,	13-Jul-2022	16:53
422G1220.D	Data Locked	alfonso,	13-Jul-2022	16:53



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKG0126

Instrument: FID4

Calibration: FA00054

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Retention Time Standard	SKG0126-IBL1	422G1223.D	NA	07/12/22 18:38
Instrument Blank	SKG0126-IBL2	422G1224.D	NA	07/12/22 18:58
DIESEL ICV	SKG0126-ICV1	422G1225.D	NA	07/12/22 19:18
MOIL ICV	SKG0126-ICV2	422G1226.D	NA	07/12/22 19:38
ZZZZZ	BKG0175-BLK1	422G1227.D	Water	07/12/22 19:58
ZZZZZ	BKG0175-BS1	422G1228.D	Water	07/12/22 20:18
ZZZZZ	BKG0175-BSD1	422G1229.D	Water	07/12/22 20:38
ZZZZZ	22G0105-01	422G1230.D	Water	07/12/22 20:59
ZZZZZ	22G0107-01	422G1232.D	Water	07/12/22 21:39
Z1A-4-PW	22G0121-02	422G1234.D	Water	07/12/22 22:19
DIESEL CCV	SKG0126-CCV1	422G1235.D	NA	07/12/22 22:39
MOIL CCV	SKG0126-CCV2	422G1236.D	NA	07/12/22 22:59



ANALYSIS SEQUENCE

SKG0126

Instrument: FID4
Calibration ID: FA00054

Printed: 7/14/2022 11:51:35AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKG0126-IBL1	QC		1		K005945			
SKG0126-IBL2	QC		2		J012751			
SKG0126-ICV1	QC		3		J012753			
SKG0126-ICV2	QC		4		K003637			
BKG0175-BLK1	QC		5					
BKG0175-BS1	QC		6					
BKG0175-BSD1	QC		7					
22G0105-01	PH NW (Extractables) low lev	A 01	8				Spectra Laboratories	
22G0107-01	PH NW (Extractables) low lev	A 01	9				Spectra Laboratories	
22G0121-02	PH NW (Extractables) low lev	A 01	10				GeoEngineers	
SKG0126-CCV1	QC		11		J012753			
SKG0126-CCV2	QC		12		K003637			

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - fid4a.i\20220712.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	12-JUL-2022	08:41	422G1201.D	1	RINSE	
2	12-JUL-2022	09:00	422G1202.D	1	RINSE	
3	12-JUL-2022	09:20	422G1203.D	1	SEQ-IBL1	
4	12-JUL-2022	09:40	422G1204.D	1	SEQ-IBL2	
5	12-JUL-2022	10:00	422G1205.D	1	SEQ-ICV1	
6	12-JUL-2022	10:20	422G1206.D	1	SEQ-ICV2	
7	12-JUL-2022	10:40	422G1207.D	1	BKG0171-BLK1	
8	12-JUL-2022	11:00	422G1208.D	1	BKG0171-BS1	
9	12-JUL-2022	11:20	422G1209.D	100	22G101-2RE01	
10	12-JUL-2022	11:40	422G1210.D	1	SEQ-CCV1	
11	12-JUL-2022	12:00	422G1211.D	1	SEQ-CCV2	
12	12-JUL-2022	12:21	422G1212.D	1	BKG0167-BLK1	
13	12-JUL-2022	12:41	422G1213.D	1	BKG0167-BS1	
14	12-JUL-2022	13:01	422G1214.D	1	BKG0167-BSD1	
15	12-JUL-2022	13:21	422G1215.D	1	22G0121-01	
16	12-JUL-2022	13:41	422G1216.D	1	22G0121-02	
17	12-JUL-2022	14:01	422G1217.D	1	22G0121-03	
18	12-JUL-2022	14:21	422G1218.D	1	22G0121-04	
19	12-JUL-2022	14:42	422G1219.D	1	SEQ-CCV3	
20	12-JUL-2022	15:02	422G1220.D	1	SEQ-CCV4	
21	12-JUL-2022	17:57	422G1221.D	1	RINSE	
22	12-JUL-2022	18:17	422G1222.D	1	RINSE	
23	12-JUL-2022	18:38	422G1223.D	1	SEQ-IBL1	
24	12-JUL-2022	18:58	422G1224.D	1	SEQ-IBL2	
25	12-JUL-2022	19:18	422G1225.D	1	SEQ-ICV1	
26	12-JUL-2022	19:38	422G1226.D	1	SEQ-ICV2	
27	12-JUL-2022	19:58	422G1227.D	1	BKG0175-BLK1	
28	12-JUL-2022	20:18	422G1228.D	1	BKG0175-BS1	
29	12-JUL-2022	20:38	422G1229.D	1	BKG0175-BSD1	
30	12-JUL-2022	20:59	422G1230.D	1	22G0105-01	
31	12-JUL-2022	21:19	422G1231.D	5	22G0105-01	
32	12-JUL-2022	21:39	422G1232.D	1	22G0107-01	
33	12-JUL-2022	21:59	422G1233.D	10	22G0107-01	
34	12-JUL-2022	22:19	422G1234.D	5	22G0121-02	
35	12-JUL-2022	22:39	422G1235.D	1	SEQ-CCV1	
36	12-JUL-2022	22:59	422G1236.D	1	SEQ-CCV2	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20220712.b

ARI Job No.: SEQ- Method: FID4TPH.m Instrument: fid4a.i Date: 12-JUL-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1838	422G1223.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
1858	422G1224.D	SEQ-IBL2		1	NO MANUAL INTEGRATION
1918	422G1225.D	SEQ-ICV1		1	o-terph,
1938	422G1226.D	SEQ-ICV2		1	Triacon Surr,
1958	422G1227.D	BKG0175-BLK1		1	NO MANUAL INTEGRATION
2018	422G1228.D	BKG0175-BS1		1	o-terph,
2038	422G1229.D	BKG0175-BSD1		1	o-terph,
2059	422G1230.D	22G0105-01		1	o-terph, Triacon Surr,
2119	422G1231.D	22G0105-01		5	o-terph, Triacon Surr,
2139	422G1232.D	22G0107-01		1	o-terph, Triacon Surr,
2159	422G1233.D	22G0107-01		10	o-terph, Triacon Surr,
2219	422G1234.D	22G0121-02		5	o-terph, Triacon Surr,
2239	422G1235.D	SEQ-CCV1		1	o-terph,
2259	422G1236.D	SEQ-CCV2		1	Triacon Surr,

Security Status Report

Date: 14-Jul-2022 11:58

422G1223.D	Data Locked	alfonso, 14-Jul-2022 11:58
422G1224.D	Data Locked	alfonso, 14-Jul-2022 11:58
422G1225.D	Data Locked	alfonso, 14-Jul-2022 11:58
422G1226.D	Data Locked	alfonso, 14-Jul-2022 11:58
422G1227.D	Data Locked	alfonso, 14-Jul-2022 11:58
422G1228.D	Data Locked	alfonso, 14-Jul-2022 11:58
422G1229.D	Data Locked	alfonso, 14-Jul-2022 11:58
422G1230.D	Data Locked	alfonso, 14-Jul-2022 11:58
422G1232.D	Data Locked	alfonso, 14-Jul-2022 11:58
422G1234.D	Data Locked	alfonso, 14-Jul-2022 11:58
422G1235.D	Data Locked	alfonso, 14-Jul-2022 11:58
422G1236.D	Data Locked	alfonso, 14-Jul-2022 11:58



SURROGATE RECOVERY AND RT SUMMARY
NWTPH-Dx

Laboratory:	<u>Analytical Resources, LLC</u>	SDG/WO:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Sequence:	<u>SKC0073</u>	Instrument:	<u>FID4</u>
Calibration:	<u>FA00054</u>	Calibration Date:	<u>01/20/2022</u>

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKC0073-ICV1 (Water)			Lab File ID: 422C0305.D			Analyzed: 03/03/22 10:15		
o-Terphenyl	90.000	91.9	85 - 115	6.15	6.155	-0.0050	N/A	
SKC0073-CCV1 (Water)			Lab File ID: 422C0323.D			Analyzed: 03/03/22 16:12		
o-Terphenyl	90.000	96.6	85 - 115	6.15	6.155	-0.0050	N/A	
SKC0073-ICV3 (Water)			Lab File ID: 422C0341.D			Analyzed: 03/03/22 22:07		
o-Terphenyl	90.000	107	85 - 115	6.15	6.155	-0.0050	N/A	



SURROGATE RECOVERY AND RT SUMMARY
NWTPH-Dx

Laboratory:	<u>Analytical Resources, LLC</u>	SDG/WO:	<u>22G0121</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Sequence:	<u>SKE0009</u>	Instrument:	<u>FID4</u>
Calibration:	<u>FA00054</u>	Calibration Date:	<u>01/20/2022</u>

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKE0009-ICV1 (Water)			Lab File ID: 422D2111.D			Analyzed: 04/21/22 19:29		
o-Terphenyl	90.000	101	85 - 115	6.88	6.155	0.7250	N/A	
SKE0009-ICV3 (Water)			Lab File ID: 422D2113.D			Analyzed: 04/21/22 20:09		
o-Terphenyl	45.000	98.7	85 - 115	6.87	6.155	0.7150	N/A	
SKE0009-CCV1 (Water)			Lab File ID: 422D2129.D			Analyzed: 04/22/22 01:26		
o-Terphenyl	90.000	101	85 - 115	6.88	6.155	0.7250	N/A	



SURROGATE RECOVERY AND RT SUMMARY
NWTPH-Dx

Laboratory: Analytical Resources, LLC
Client: GeoEngineers
Sequence: SKG0101
Calibration: FA00054

SDG/WO: 22G0121
Project: RG Haley Site-Bellingham
Instrument: FID4
Calibration Date: 04/21/2022

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKG0101-IBL1 (Solid)			Lab File ID: 422G1203.D		Analyzed: 07/12/22 09:20			
o-Terphenyl	100.00	101	50 - 150	6.81	6.155	0.6550	N/A	
SKG0101-IBL2 (Solid)			Lab File ID: 422G1204.D		Analyzed: 07/12/22 09:40			
o-Terphenyl	100.00	103	50 - 150	6.81	6.155	0.6550	N/A	
SKG0101-ICV1 (Solid)			Lab File ID: 422G1205.D		Analyzed: 07/12/22 10:00			
o-Terphenyl	90.000	107	85 - 115	6.81	6.155	0.6550	N/A	
SKG0101-CCV1 (Solid)			Lab File ID: 422G1210.D		Analyzed: 07/12/22 11:40			
o-Terphenyl	90.000	118	85 - 115	6.81	6.155	0.6550	N/A	*
BKG0167-BLK1 (Water)			Lab File ID: 422G1212.D		Analyzed: 07/12/22 12:21			
o-Terphenyl	0.22500	112	50 - 150	6.81	6.155	0.6550	N/A	
BKG0167-BS1 (Water)			Lab File ID: 422G1213.D		Analyzed: 07/12/22 12:41			
o-Terphenyl	0.22500	110	50 - 150	6.82	6.155	0.6650	N/A	
BKG0167-BSD1 (Water)			Lab File ID: 422G1214.D		Analyzed: 07/12/22 13:01			
o-Terphenyl	0.22500	111	50 - 150	6.82	6.155	0.6650	N/A	
22G0121-01 (Water)			Lab File ID: 422G1215.D		Analyzed: 07/12/22 13:21			
o-Terphenyl	1.1250	104	50 - 150	6.81	6.155	0.6550	N/A	
22G0121-03 (Water)			Lab File ID: 422G1217.D		Analyzed: 07/12/22 14:01			
o-Terphenyl	0.37500	94.6	50 - 150	6.81	6.155	0.6550	N/A	
22G0121-04 (Water)			Lab File ID: 422G1218.D		Analyzed: 07/12/22 14:21			
o-Terphenyl	1.5000	109	50 - 150	6.81	6.155	0.6550	N/A	
SKG0101-CCV3 (Solid)			Lab File ID: 422G1219.D		Analyzed: 07/12/22 14:42			
o-Terphenyl	90.000	106	85 - 115	6.81	6.155	0.6550	N/A	



SURROGATE RECOVERY AND RT SUMMARY
NWTPH-Dx

Laboratory: Analytical Resources, LLC
 Client: GeoEngineers
 Sequence: SKG0126
 Calibration: FA00054

SDG/WO: 22G0121
 Project: RG Haley Site-Bellingham
 Instrument: FID4
 Calibration Date: 04/21/2022

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKG0126-IBL1 (Solid)			Lab File ID: 422G1223.D			Analyzed: 07/12/22 18:38		
o-Terphenyl	100.00	100	50 - 150	6.81	6.155	0.6550	N/A	
SKG0126-IBL2 (Solid)			Lab File ID: 422G1224.D			Analyzed: 07/12/22 18:58		
o-Terphenyl	100.00	108	50 - 150	6.81	6.155	0.6550	N/A	
SKG0126-ICV1 (Solid)			Lab File ID: 422G1225.D			Analyzed: 07/12/22 19:18		
o-Terphenyl	90.000	101	85 - 115	6.81	6.155	0.6550	N/A	
22G0121-02 (Water)			Lab File ID: 422G1234.D			Analyzed: 07/12/22 22:19		
o-Terphenyl	0.34091	69.8	50 - 150	6.79	6.155	0.6350	N/A	
SKG0126-CCV1 (Solid)			Lab File ID: 422G1235.D			Analyzed: 07/12/22 22:39		
o-Terphenyl	90.000	99.0	85 - 115	6.81	6.155	0.6550	N/A	



HOLDING TIME SUMMARY

Analysis: **NWTPH-Dx**

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Z1A-1-PW 22G0121-01	07/06/22 11:30	07/08/22 06:47	07/11/22 14:03	5	7	07/12/22 13:21	1	40	
Z1A-4-PW 22G0121-02	07/06/22 11:30	07/08/22 06:47	07/11/22 14:03	5	7	07/12/22 22:19	1	40	
Z1A-7-PW 22G0121-03	07/06/22 11:10	07/08/22 06:47	07/11/22 14:03	5	7	07/12/22 14:01	1	40	
Z1A-10-PW 22G0121-04	07/06/22 11:10	07/08/22 06:47	07/11/22 14:03	5	7	07/12/22 14:21	1	40	

* Indicates hold time exceedance.



Analytical Resources, LLC
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Instrument: FID4

Analyte	MDL	RL	Units
Diesel Range Organics (C12-C24)	2.34	5.00	mg/kg
Motor Oil Range Organics (C24-C38)	2.99	10.0	mg/kg



Analytical Resources, LLC
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

NWTPH-Dx

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Water

Instrument: FID4

Analyte	MDL	RL	Units
Diesel Range Organics (C12-C24)	0.033	0.100	mg/L
Motor Oil Range Organics (C24-C38)	0.056	0.200	mg/L



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A

Z1A-4-PW

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Water Laboratory ID: 22G0121-02 C SDG: 22G0121

Sampled: 07/06/22 11:30 Prepared: 07/11/22 14:53 File ID: ShimadzuData_07142022@1016-033

% Solids: 0.00 Preparation: No Prep Wet Chem Analyzed: 07/12/22 07:12

Batch: BKG0191 Sequence: SKG0136 Initial/Final: 20 mL / 20 mL

Instrument: TOC-LCSH Calibration: FG00018

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	29.86	1	0.50	0.50	



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A

Z1A-7-PW

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Water Laboratory ID: 22G0121-03 C SDG: 22G0121

Sampled: 07/06/22 11:10 Prepared: 07/11/22 14:53 File ID: ShimadzuData_07142022@1016-034

% Solids: 0.00 Preparation: No Prep Wet Chem Analyzed: 07/12/22 07:40

Batch: BKG0191 Sequence: SKG0136 Initial/Final: 20 mL / 20 mL

Instrument: TOC-LCSH Calibration: FG00018

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	23.43	1	0.50	0.50	



Analytical Resources, LLC
Analytical Chemists and Consultants

PREPARATION BATCH SUMMARY
EPA 9060A

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Batch: BKG0191

Batch Matrix: Water

Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Z1A-4-PW	22G0121-02	dzuData_07142022@101	07/11/22 14:53	
Z1A-7-PW	22G0121-03	dzuData_07142022@101	07/11/22 14:53	
Blank	BKG0191-BLK1	dzuData_07142022@101	07/11/22 14:53	
LCS	BKG0191-BS1	dzuData_07142022@101	07/11/22 14:53	
MRL Check	BKG0191-MRL1	dzuData_07142022@101	07/11/22 14:53	



Form I
METHOD BLANK DATA SHEET
EPA 9060A
TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Batch: BKG0191

Laboratory ID: BKG0191-BLK1

Prepared: 07/11/22 14:53

Matrix: Water

Preparation: No Prep Wet Chem

Analyzed: 07/11/22 19:37

Sequence: SKG0136

Calibration: FG00018

Instrument: TOC-LCSH

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.50	0.50	U



LCS / LCS DUPLICATE RECOVERY
EPA 9060A

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Water

Analyzed: 07/11/22 20:00

Batch: BKG0191

Laboratory ID: BKG0191-BS1

Preparation: No Prep Wet Chem

Sequence Name: LCS

Initial/Final: 20 mL / 20 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	20.00	18.44		92.2	90 - 110

* Indicates values outside of QC limits



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKG0084

Instrument: TOC-LCSH

Calibration: FG00018

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
1	SKG0084-CAL1	ShimadzuData_07082022@1636-002	NA	07/07/22 15:23
10	SKG0084-CAL2	ShimadzuData_07082022@1636-003	NA	07/07/22 15:50
5	SKG0084-CAL3	ShimadzuData_07082022@1636-004	NA	07/07/22 16:14
2	SKG0084-CAL4	ShimadzuData_07082022@1636-005	NA	07/07/22 16:32
1	SKG0084-CAL5	ShimadzuData_07082022@1636-006	NA	07/07/22 16:49
5	SKG0084-CAL6	ShimadzuData_07082022@1636-007	NA	07/07/22 17:10
2	SKG0084-CAL7	ShimadzuData_07082022@1636-008	NA	07/07/22 17:30
1	SKG0084-CAL8	ShimadzuData_07082022@1636-009	NA	07/07/22 17:50

	Type	Analysis	Sample Name	Sample ID	Origin	Manua	Result	Notes	Status	Date / Time	Vial
1	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.5165mg/L		Completed	7/7/2022 3:12:02 PM	0
2	Standard	NPOC	SEQ-CAL	Curve	NPOC 0.5 - 50 p	1.000			Completed	7/7/2022 6:00:10 PM	0, 1
3	Control	NPOC	SEQ-ICV1	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:20.53ppm	Control v	Completed	7/7/2022 6:21:03 PM	3
4	Control	NPOC	SEQ-ICB1		ICB CCB.tpl	1.000	NPOC:0.2703mg/L	Control v	Completed	7/7/2022 6:46:26 PM	4
5	Unknown	NPOC	SEQ-IFA1		NPOC 0.5 - 50 p	1.000	NPOC:20.44mg/L		Completed	7/7/2022 7:07:11 PM	9
6	Unknown	NPOC	BKG0051-MRL1		NPOC 0.5 - 50 p	1.000	NPOC:0.8529mg/L		Completed	7/7/2022 7:33:41 PM	10
7	Unknown	NPOC	BKG0051-BLK1		NPOC 0.5 - 50 p	1.000	NPOC:0.3094mg/L		Completed	7/7/2022 7:55:26 PM	11
8	Unknown	NPOC	BKG0051-BS1		NPOC 0.5 - 50 p	1.000	NPOC:20.08mg/L		Completed	7/7/2022 8:15:43 PM	12
9	Unknown	NPOC	22F0316-01		NPOC 0.5 - 50 p	1.000	NPOC:2.190mg/L		Completed	7/7/2022 8:43:14 PM	13
10	Unknown	NPOC	22F0316-02		NPOC 0.5 - 50 p	1.000	NPOC:1.065mg/L		Completed	7/7/2022 9:05:43 PM	14
11	Unknown	NPOC	22F0316-03		NPOC 0.5 - 50 p	1.000	NPOC:0.7525mg/L		Completed	7/7/2022 9:32:01 PM	15
12	Unknown	NPOC	22F0316-04		NPOC 0.5 - 50 p	1.000	NPOC:0.4230mg/L		Completed	7/7/2022 9:57:32 PM	16
13	Unknown	NPOC	22F0316-05		NPOC 0.5 - 50 p	1.000	NPOC:0.4056mg/L		Completed	7/7/2022 10:23:27 PM	17
14	Unknown	NPOC	BKG0051-DUP1		NPOC 0.5 - 50 p	1.000	NPOC:0.3675mg/L		Completed	7/7/2022 10:49:11 PM	18
15	Control	NPOC	SEQ-CCV1	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:19.54ppm	Control v	Completed	7/7/2022 11:10:05 PM	3
16	Control	NPOC	SEQ-CCB1		ICB CCB.tpl	1.000	NPOC:0.02509mg/L	Control v	Completed	7/7/2022 11:34:15 PM	4
17	Unknown	NPOC	BKG0051-MS1		NPOC 0.5 - 50 p	1.000	NPOC:17.71mg/L		Completed	7/7/2022 11:54:41 PM	19
18	Unknown	NPOC	BKG0051-MSD1		NPOC 0.5 - 50 p	1.000	NPOC:18.16mg/L		Completed	7/8/2022 12:14:58 AM	20
19	Unknown	NPOC	22F0316-06		NPOC 0.5 - 50 p	1.000	NPOC:2.348mg/L		Completed	7/8/2022 12:34:31 AM	21
20	Unknown	NPOC	22F0317-01		NPOC 0.5 - 50 p	1.000	NPOC:773.1mg/L		Completed	7/8/2022 1:01:56 AM	22
21	Unknown	NPOC	22F0318-01		NPOC 0.5 - 50 p	1.000	NPOC:1.148mg/L		Completed	7/8/2022 1:28:18 AM	23
22	Unknown	NPOC	22F0331-01		NPOC 0.5 - 50 p	1.000	NPOC:0.7863mg/L		Completed	7/8/2022 1:54:33 AM	24
23	Unknown	NPOC	22F0331-03		NPOC 0.5 - 50 p	1.000	NPOC:0.5092mg/L		Completed	7/8/2022 2:16:25 AM	25
24	Unknown	NPOC	22F0331-05		NPOC 0.5 - 50 p	1.000	NPOC:0.5373mg/L		Completed	7/8/2022 2:42:12 AM	26
25	Unknown	NPOC	22F0476-01		NPOC 0.5 - 50 p	1.000	NPOC:4.681mg/L		Completed	7/8/2022 3:07:06 AM	27
26	Unknown	NPOC	BKG0051-DUP2		NPOC 0.5 - 50 p	1.000	NPOC:4.496mg/L		Completed	7/8/2022 3:31:41 AM	28
27	Control	NPOC	SEQ-CCV2	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:19.39ppm	Control v	Completed	7/8/2022 3:52:13 AM	3
28	Control	NPOC	SEQ-CCB2		ICB CCB.tpl	1.000	NPOC:0.05399mg/L	Control v	Completed	7/8/2022 4:16:23 AM	4
29	Unknown	NPOC	BKG0051-MS2		NPOC 0.5 - 50 p	1.000	NPOC:21.74mg/L		Completed	7/8/2022 4:37:21 AM	29
30	Unknown	NPOC	22F0476-03		NPOC 0.5 - 50 p	1.000	NPOC:4.682mg/L		Completed	7/8/2022 5:06:28 AM	30
31	Unknown	NPOC	22G0009-01		NPOC 0.5 - 50 p	1.000	NPOC:4.570mg/L		Completed	7/8/2022 5:35:41 AM	31
32	Unknown	NPOC	22G0009-03		NPOC 0.5 - 50 p	1.000	NPOC:4.526mg/L		Completed	7/8/2022 6:05:53 AM	32
33	Unknown	NPOC	BKG0052-MRL1		NPOC 0.5 - 50 p	1.000	NPOC:0.7207mg/L		Completed	7/8/2022 6:32:19 AM	33
34	Unknown	NPOC	BKG0052-BLK1		NPOC 0.5 - 50 p	1.000	NPOC:0.1727mg/L		Completed	7/8/2022 6:54:09 AM	34
35	Unknown	NPOC	BKG0052-BS1		NPOC 0.5 - 50 p	1.000	NPOC:19.97mg/L		Completed	7/8/2022 7:14:51 AM	35
36	Unknown	NPOC	BKG0053-MRL1		NPOC 0.5 - 50 p	1.000	NPOC:0.7031mg/L		Completed	7/8/2022 7:41:24 AM	36
37	Unknown	NPOC	BKG0053-BLK1		NPOC 0.5 - 50 p	1.000	NPOC:0.2124mg/L		Completed	7/8/2022 8:06:52 AM	37
38	Unknown	NPOC	BKG0053-BS1		NPOC 0.5 - 50 p	1.000	NPOC:20.01mg/L		Completed	7/8/2022 8:27:32 AM	38
39	Control	NPOC	SEQ-CCV3	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:19.89ppm	Control v	Completed	7/8/2022 8:48:37 AM	5
40	Control	NPOC	SEQ-CCB3		ICB CCB.tpl	1.000	NPOC:0.09047mg/L	Control v	Completed	7/8/2022 9:13:00 AM	6

	Type	Analysis	Sample Name	Sample ID	Origin	Manua	Result	Notes	Status	Date / Time	Vial
41	Unknown	NPOC	22F0321-01		NPOC 0.5 - 50 p	10.00	NPOC:6527mg/L		Completed	7/8/2022 9:40:05 AM	39
42	Unknown	NPOC	BKG0052-DUP1		NPOC 0.5 - 50 p	10.00	NPOC:6524mg/L		Completed	7/8/2022 10:06:57 AM	40
43	Unknown	NPOC	BKG0052-MS1		NPOC 0.5 - 50 p	10.00	NPOC:6366mg/L		Completed	7/8/2022 10:33:42 AM	41
44	Unknown	NPOC	DI Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.4070mg/L		Completed	7/8/2022 10:59:33 AM	42
45	Unknown	NPOC	22F0322-01		NPOC 0.5 - 50 p	1.000	NPOC:106.4mg/L		Completed	7/8/2022 11:20:02 AM	43
46	Unknown	NPOC	22F0339-01		NPOC 0.5 - 50 p	1.000	NPOC:27.42mg/L		Completed	7/8/2022 11:41:15 AM	44
47	Unknown	NPOC	BKG0053-DUP1		NPOC 0.5 - 50 p	1.000	NPOC:25.72mg/L		Completed	7/8/2022 12:12:13 PM	45
48	Unknown	NPOC	BKG0053-MS1		NPOC 0.5 - 50 p	1.000	NPOC:58.81mg/L		Completed	7/8/2022 12:33:14 PM	46
49	Unknown	NPOC	22F0340-01		NPOC 0.5 - 50 p	1.000	NPOC:0.5358mg/L		Completed	7/8/2022 12:58:41 PM	47
50	Control	NPOC	SEQ-CCV4	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:19.68ppm	Control v	Completed	7/8/2022 1:23:19 PM	5
51	Control	NPOC	SEQ-CCB4		ICB CCB.tpl	1.000	NPOC:0.1727mg/L	Control v	Completed	7/8/2022 1:47:48 PM	6

TOC-Control L Report

RMS
2022_07_07_001.thx

Instr. Information

Instrument Options
Catalyst

TOC/ASI/IC Unit/
Regular Sensitivity

Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

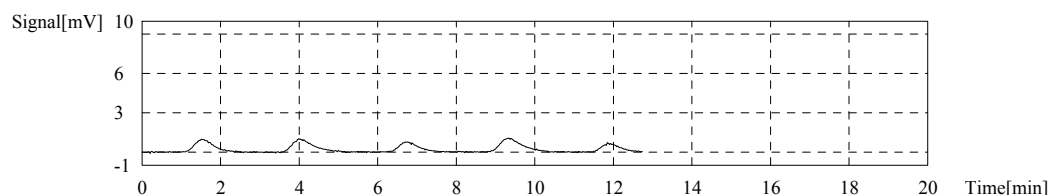
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5165mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.226	0.4602mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_05_15_48_09.cal	7/7/2022 2:57:51 PM
2	3.797	0.5417mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_05_15_48_09.cal	7/7/2022 3:01:32 PM
3	2.902	0.4140mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_05_15_48_09.cal	7/7/2022 3:05:05 PM
4	3.838	0.5475mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_05_15_48_09.cal	7/7/2022 3:08:39 PM
5	2.056	0.2933mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_05_15_48_09.cal	7/7/2022 3:12:02 PM

Mean Area 3.620
Mean Conc. 0.5165mg/L



Cal. Curve

Sample Name: SEQ-CAL
Sample ID: Curve
Cal. Curve: NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal
Status: Completed

Type	Anal.
Standard	NPOC

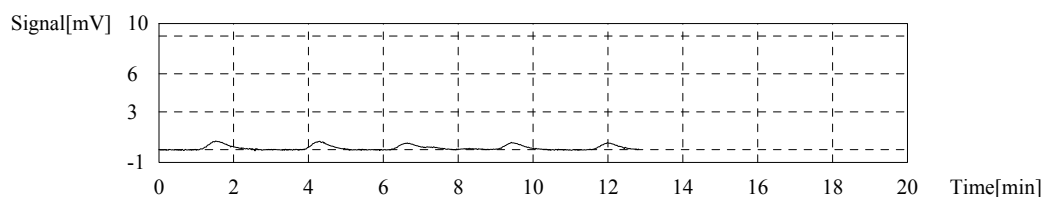
Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	2.708	100uL	1.000	*****	E	7/7/2022 3:20:17 PM
2	2.049	100uL	1.000	*****		7/7/2022 3:23:37 PM
3	2.239	100uL	1.000	*****		7/7/2022 3:27:34 PM
4	1.890	100uL	1.000	*****		7/7/2022 3:31:06 PM
5	1.696	100uL	1.000	*****	E	7/7/2022 3:34:28 PM

TOC-Control L Report

RMS
2022_07_07_001.thx

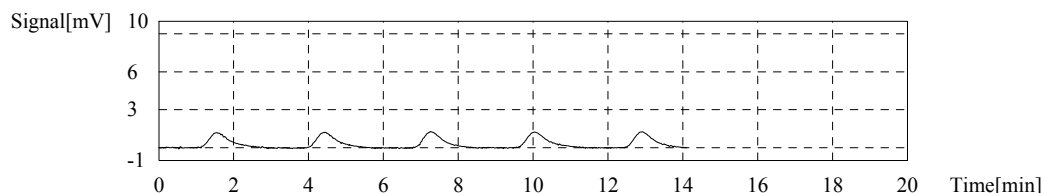
Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 2.059



Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.362	100uL	10.00	*****	E	7/7/2022 3:45:42 PM
2	4.906	100uL	10.00	*****		7/7/2022 3:50:33 PM
3	4.799	100uL	10.00	*****		7/7/2022 3:55:19 PM
4	5.085	100uL	10.00	*****	E	7/7/2022 4:00:19 PM
5	4.673	100uL	10.00	*****		7/7/2022 4:05:03 PM

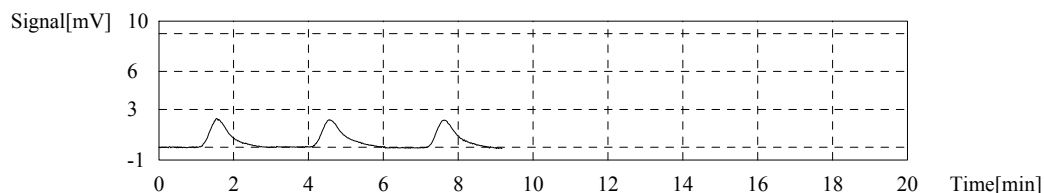
Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 4.793



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	8.586	100uL	5.000	*****		7/7/2022 4:14:23 PM
2	8.757	100uL	5.000	*****		7/7/2022 4:18:25 PM
3	8.837	100uL	5.000	*****		7/7/2022 4:22:32 PM

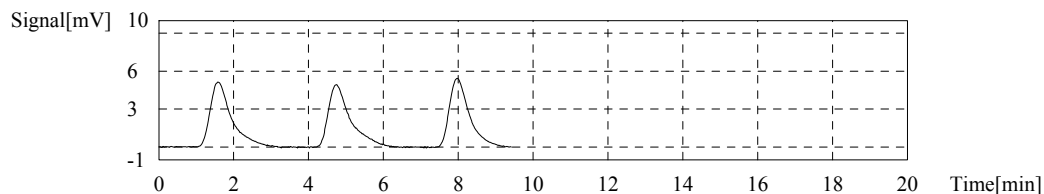
Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 8.727



Conc: 2.500mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	20.46	100uL	2.000	*****		7/7/2022 4:32:13 PM
2	20.64	100uL	2.000	*****		7/7/2022 4:36:25 PM
3	20.44	100uL	2.000	*****		7/7/2022 4:40:26 PM

Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 20.51



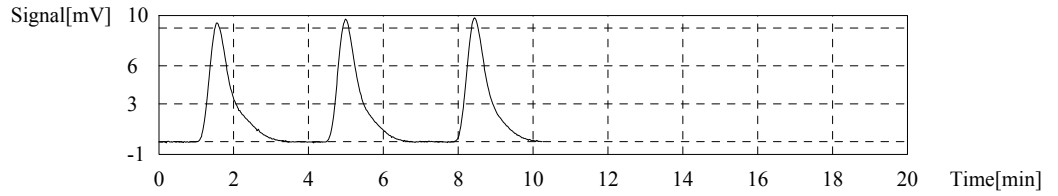
Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	39.85	100uL	1.000	*****		7/7/2022 4:49:46 PM
2	39.62	100uL	1.000	*****		7/7/2022 4:54:11 PM
3	39.70	100uL	1.000	*****		7/7/2022 4:58:33 PM

TOC-Control L Report

RMS
2022_07_07_001.thx

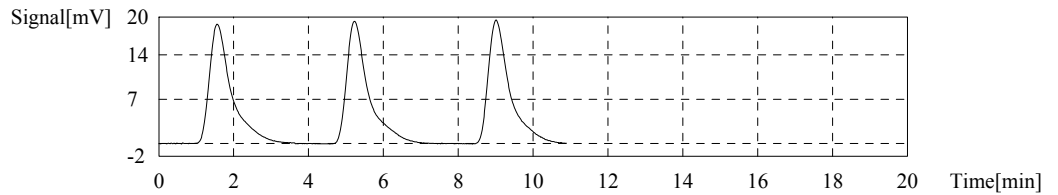
Acid Add. 1.500%
Sparge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 39.72



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	78.34	100uL	5.000	*****		7/7/2022 5:10:41 PM
2	79.60	100uL	5.000	*****		7/7/2022 5:15:28 PM
3	79.20	100uL	5.000	*****		7/7/2022 5:19:54 PM

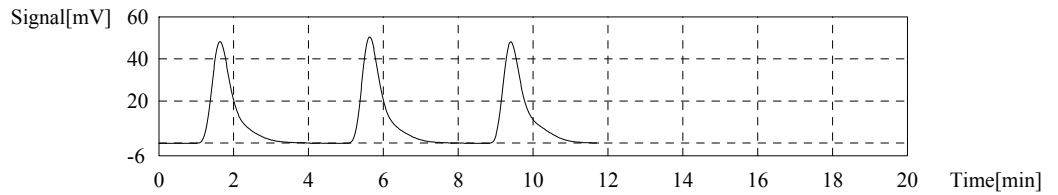
Acid Add. 1.500%
Sparge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 79.05



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.8	100uL	2.000	*****		7/7/2022 5:30:26 PM
2	200.6	100uL	2.000	*****		7/7/2022 5:35:12 PM
3	200.6	100uL	2.000	*****		7/7/2022 5:40:07 PM

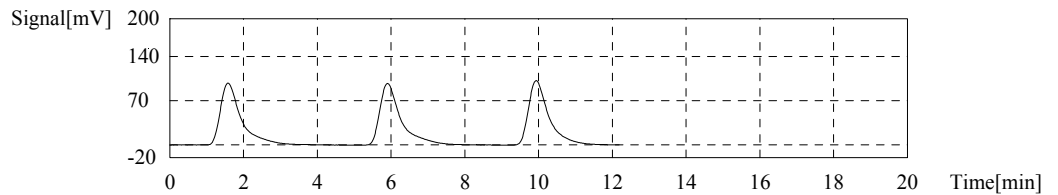
Acid Add. 1.500%
Sparge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 199.3



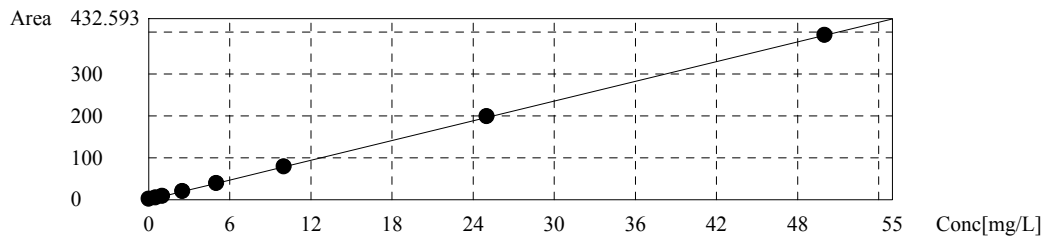
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	391.0	100uL	1.000	*****		7/7/2022 5:50:20 PM
2	393.6	100uL	1.000	*****		7/7/2022 5:55:19 PM
3	395.2	100uL	1.000	*****		7/7/2022 6:00:10 PM

Acid Add. 1.500%
Sparge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 393.3



Slope: 7.857
Intercept: 0.000
r²: 1.0000
r: 1.0000
Zero Shift: Yes



TOC-Control L Report

RMS
2022_07_07_001.thx

Control Sample

Sample Name: SEQ-ICV1
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 20.53 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

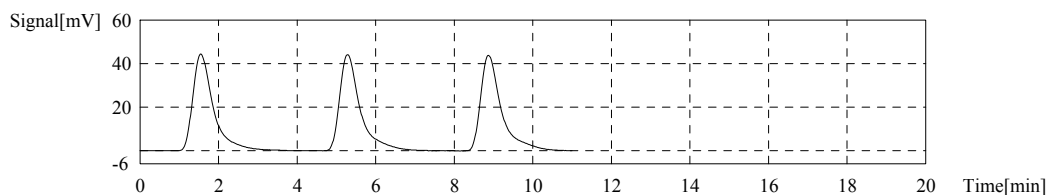
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:20.53ppm

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	162.4	20.53ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:11:49 PM
2	161.8	20.45ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:16:23 PM
3	163.0	20.60ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:21:03 PM

Mean Area: 162.4
Mean Conc.: 20.53ppm



Control Sample

Sample Name: SEQ-ICB1
Sample ID: ICB CCB.tpl
Method: Completed
Chk. Result: Control value: 0.2703 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.2703mg/L

1. Det.

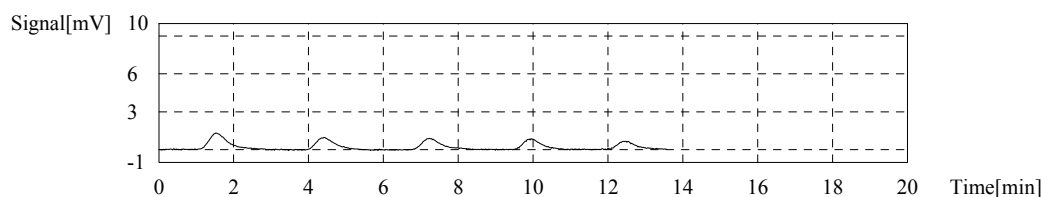
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.390	0.4166mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:31:47 PM
2	3.642	0.3214mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:35:34 PM
3	3.247	0.2712mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:39:17 PM
4	2.831	0.2182mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:42:47 PM
5	2.384	0.1613mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:46:26 PM

TOC-Control L Report

RMS
2022_07_07_001.tk

Mean Area 3.240
Mean Conc. 0.2703mg/L



Sample

Sample Name: SEQ-IFA1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

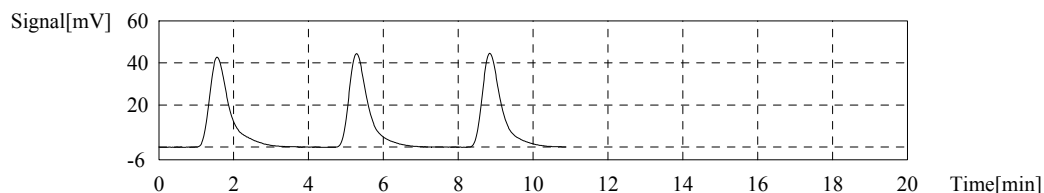
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.44mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	160.2	20.39mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:58:05 PM
2	160.7	20.45mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:02:37 PM
3	160.8	20.47mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:07:11 PM

Mean Area 160.6
Mean Conc. 20.44mg/L



Sample

Sample Name: BKG0051-MRL1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8529mg/L

1. Det

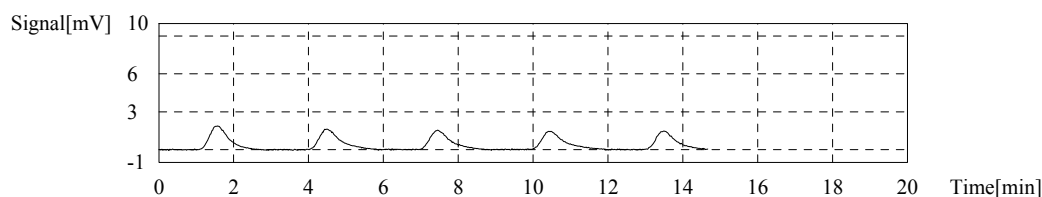
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.970	0.8871mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:18:00 PM
2	6.742	0.8581mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:21:56 PM
3	6.392	0.8136mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:25:56 PM
4	5.886	0.7492mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:29:57 PM
5	5.651	0.7193mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:33:41 PM

TOC-Control L Report

RMS
2022_07_07_001.thx

Mean Area 6.701
Mean Conc. 0.8529mg/L



Sample

Sample Name: BKG0051-BLK1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

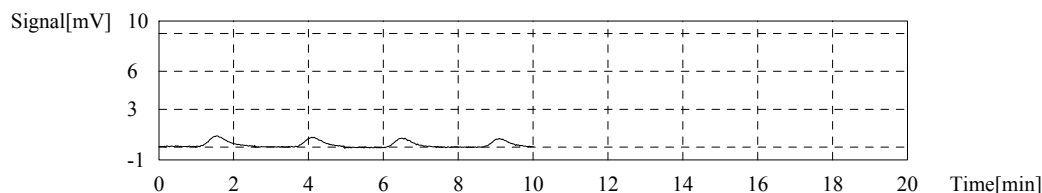
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3094mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.983	0.3797mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:44:01 PM
2	2.408	0.3065mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:47:48 PM
3	2.508	0.3192mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:51:48 PM
4	2.377	0.3025mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:55:26 PM

Mean Area 2.431
Mean Conc. 0.3094mg/L



Sample

Sample Name: BKG0051-BS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.08mg/L

1. Det

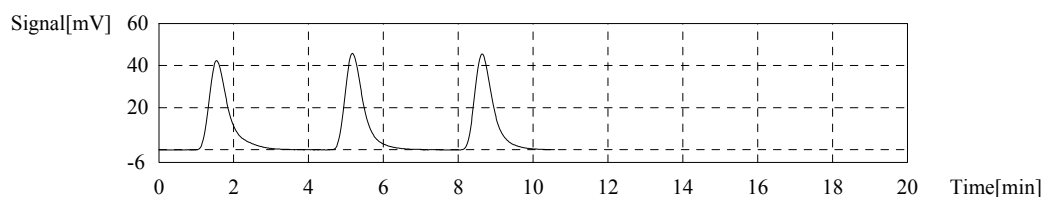
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	155.3	19.77mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:06:46 PM
2	159.3	20.28mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:11:14 PM
3	158.7	20.20mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:15:43 PM

TOC-Control L Report

RMS
2022_07_07_001.th

Mean Area 157.8
Mean Conc. 20.08mg/L



Sample

Sample Name: 22F0316-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

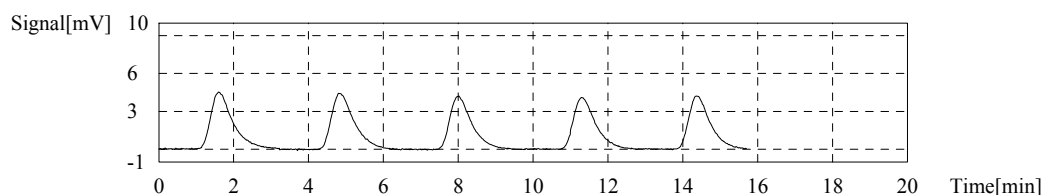
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.190mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.60	2.367mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:26:49 PM
2	19.04	2.423mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:30:58 PM
3	17.79	2.264mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:35:15 PM
4	16.95	2.157mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:39:19 PM
5	16.88	2.148mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:43:14 PM

Mean Area 17.21
Mean Conc. 2.190mg/L



Sample

Sample Name: 22F0316-02
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.065mg/L

1. Det

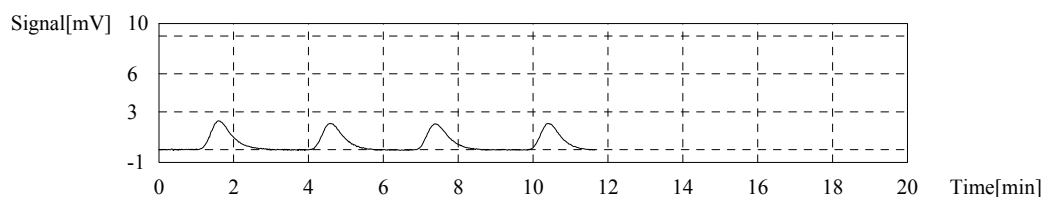
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.717	1.109mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:54:05 PM
2	8.391	1.068mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:57:52 PM
3	8.458	1.077mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:01:52 PM
4	8.249	1.050mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:05:43 PM

TOC-Control L Report

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Mean Area 8.366
Mean Conc. 1.065mg/L



Sample

Sample Name: 22F0316-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

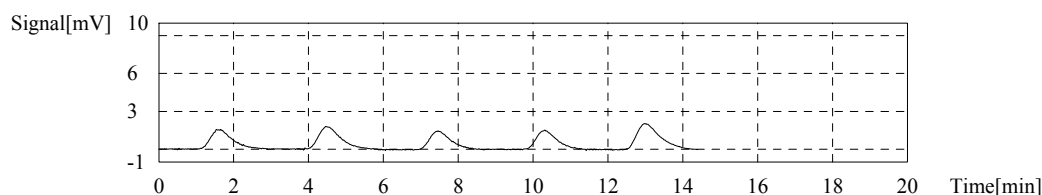
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7525mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.206	0.7899mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:16:30 PM
2	7.274	0.9258mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:20:27 PM
3	5.897	0.7506mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:24:16 PM
4	5.633	0.7170mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:27:57 PM
5	9.027	1.149mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:32:01 PM

Mean Area 5.912
Mean Conc. 0.7525mg/L



Sample

Sample Name: 22F0316-04
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4230mg/L

1. Det

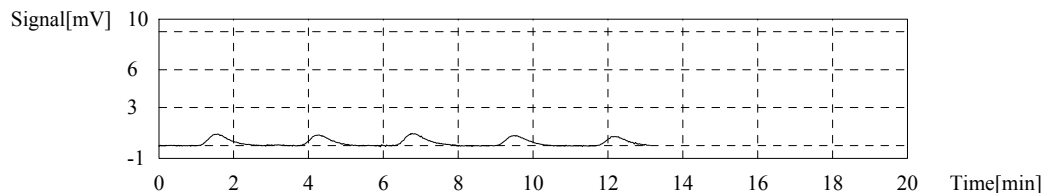
Anal.: NPOC

TOC-Control L Report

RMS
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No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.542	0.4508mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:42:39 PM
2	3.166	0.4030mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:46:13 PM
3	3.851	0.4902mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:50:09 PM
4	3.263	0.4153mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:53:56 PM
5	2.677	0.3407mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:57:32 PM

Mean Area 3.324
Mean Conc. 0.4230mg/L



Sample

Sample Name: 22F0316-05
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

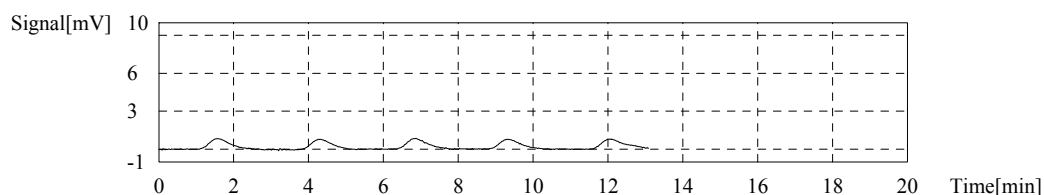
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4056mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.648	0.4643mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:08:27 PM
2	3.185	0.4054mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:12:03 PM
3	3.168	0.4032mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:15:46 PM
4	3.460	0.4404mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:19:46 PM
5	3.208	0.4083mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:23:27 PM

Mean Area 3.187
Mean Conc. 0.4056mg/L



Sample

Sample Name: BKG0051-DUP1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3675mg/L

1. Det

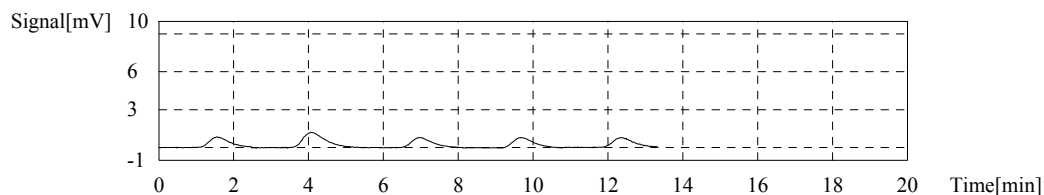
TOC-Control L Report

RMS
2022_07_07_001.thx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.843	0.3619mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:33:52 PM
2	4.960	0.6313mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:38:05 PM
3	3.065	0.3901mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:41:47 PM
4	3.219	0.4097mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:45:29 PM
5	2.754	0.3505mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:49:11 PM

Mean Area 2.887
Mean Conc. 0.3675mg/L



Control Sample

Sample Name: SEQ-CCV1
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 19.54 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

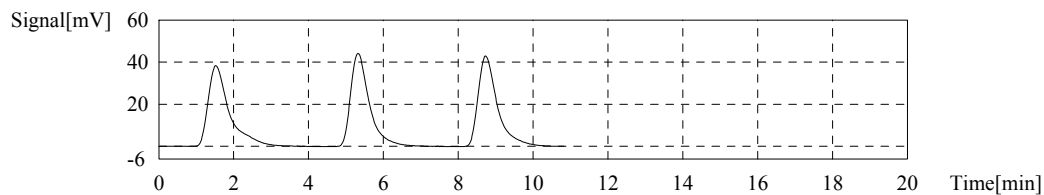
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:19.54ppm

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	152.6	19.28ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:01:05 PM
2	154.7	19.55ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:05:27 PM
3	156.5	19.78ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:10:05 PM

Mean Area 154.6
Mean Conc. 19.54ppm



Control Sample

Sample Name: SEQ-CCB1
Sample ID: ICB CCB.tpl
Method: ICB CCB.tpl
Status: Completed
Chk. Result: Control value: 0.02509 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

TOC-Control L Report

RMS
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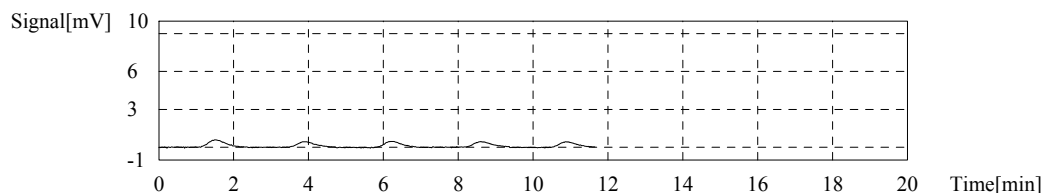
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.02509mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.113	0.1268mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:20:22 PM
2	1.308	0.02437mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:23:48 PM
3	1.701	0.07439mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:27:21 PM
4	1.269	0.01941mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:30:46 PM
5	1.364	0.03150mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:34:15 PM

Mean Area 1.314
Mean Conc. 0.02509mg/L



Sample

Sample Name: BKG0051-MS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

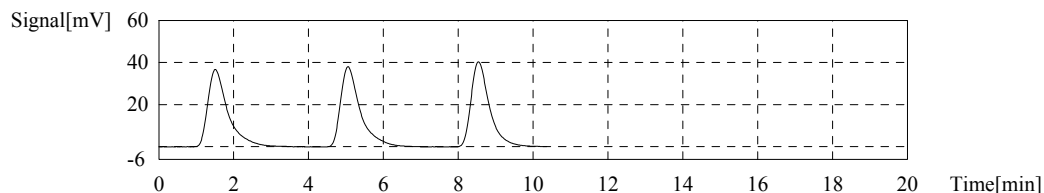
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.71mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	137.7	17.53mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:45:52 PM
2	140.3	17.86mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:50:19 PM
3	139.4	17.74mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:54:41 PM

Mean Area 139.1
Mean Conc. 17.71mg/L



Sample

Sample Name: BKG0051-MSD1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

TOC-Control L Report

RMS
2022_07_07_001.thx

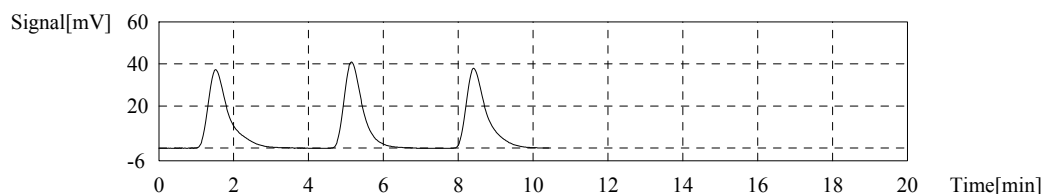
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:18.16mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	143.0	18.20mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:06:12 AM
2	141.8	18.05mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:10:27 AM
3	143.3	18.24mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:14:58 AM

Mean Area 142.7
Mean Conc. 18.16mg/L



Sample

Sample Name: 22F0316-06
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

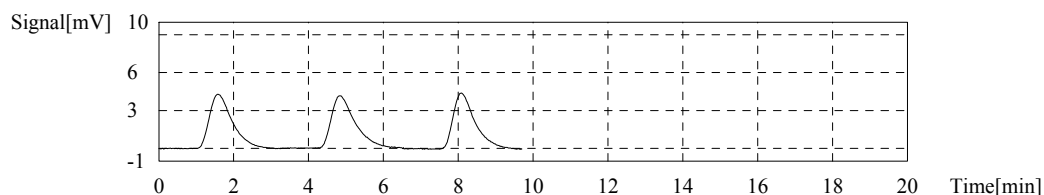
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.348mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.50	2.355mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:26:06 AM
2	18.54	2.360mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:30:22 AM
3	18.30	2.329mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:34:31 AM

Mean Area 18.45
Mean Conc. 2.348mg/L



Sample

Sample Name: 22F0317-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

TOC-Control L Report

RMS
2022_07_07_001.thx

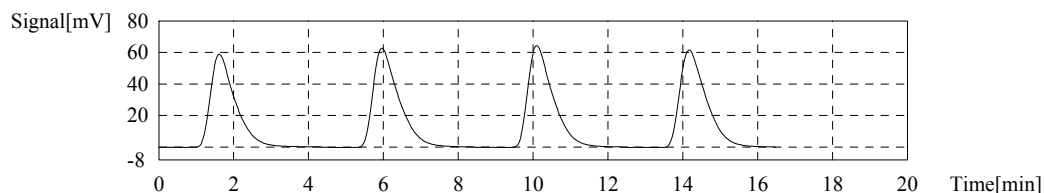
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:773.1mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	273.5	696.2mg/L	100ul	20.00	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:47:10 AM
2	302.8	770.8mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:52:11 AM
3	303.9	773.6mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:57:05 AM
4	304.4	774.9mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:01:56 AM

Mean Area 303.7
Mean Conc. 773.1mg/L



Sample

Sample Name: 22F0318-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

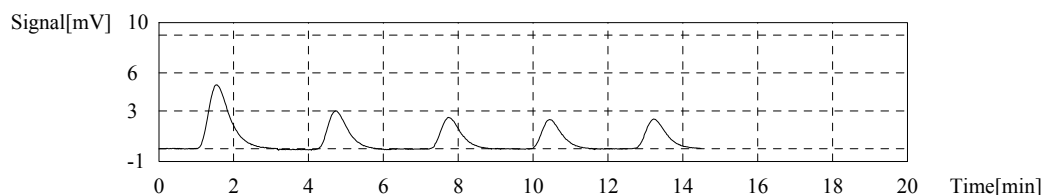
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.148mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.36	2.591mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:12:56 AM
2	11.82	1.504mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:16:56 AM
3	9.329	1.187mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:20:37 AM
4	8.772	1.116mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:24:27 AM
5	8.967	1.141mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:28:18 AM

Mean Area 9.023
Mean Conc. 1.148mg/L



Sample

Sample Name: 22F0331-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

TOC-Control L Report

RMS
2022_07_07_001.thx

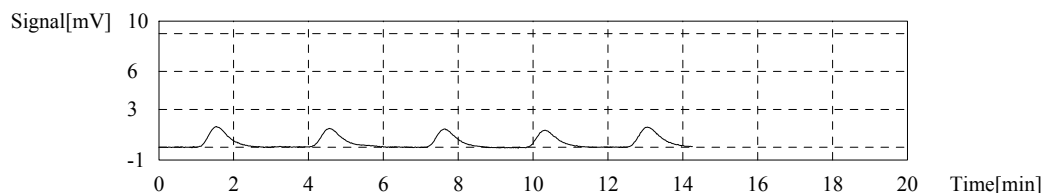
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7863mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.358	0.8092mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:39:10 AM
2	5.865	0.7465mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:43:14 AM
3	5.390	0.6860mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:46:54 AM
4	5.142	0.6545mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:50:42 AM
5	6.310	0.8031mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:54:33 AM

Mean Area 6.178
Mean Conc. 0.7863mg/L



Sample

Sample Name: 22F0331-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

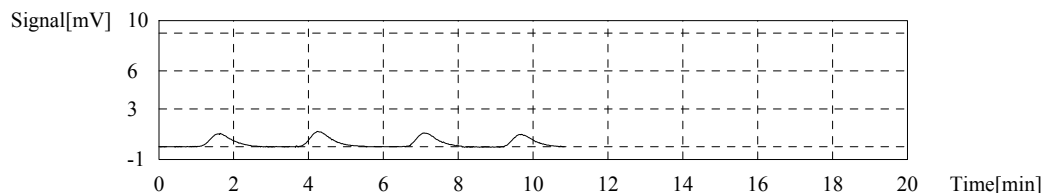
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5092mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.030	0.5129mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:05:00 AM
2	4.965	0.6319mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:08:56 AM
3	3.977	0.5062mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:12:28 AM
4	3.994	0.5084mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:16:25 AM

Mean Area 4.000
Mean Conc. 0.5092mg/L



Sample

Sample Name: 22F0331-05
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

TOC-Control L Report

RMS
2022_07_07_001.thx

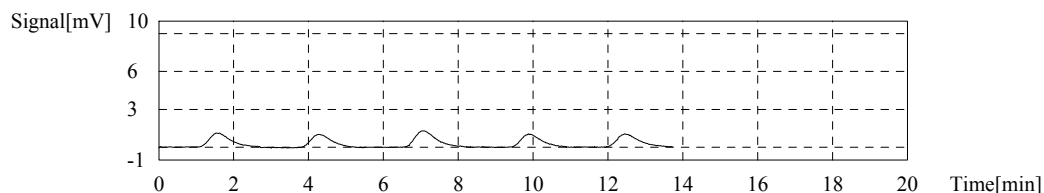
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5373mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.199	0.5344mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:26:55 AM
2	4.185	0.5327mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:30:47 AM
3	5.326	0.6779mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:34:37 AM
4	3.745	0.4767mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:38:10 AM
5	4.280	0.5448mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:42:12 AM

Mean Area 4.221
Mean Conc. 0.5373mg/L



Sample

Sample Name: 22F0476-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

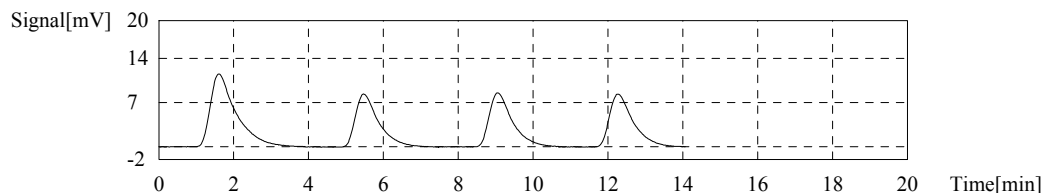
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.681mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	55.40	7.051mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:53:59 AM
2	36.63	4.662mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:58:32 AM
3	36.56	4.653mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:02:44 AM
4	37.14	4.727mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:07:06 AM

Mean Area 36.78
Mean Conc. 4.681mg/L



Sample

Sample Name: BKG0051-DUP2
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

TOC-Control L Report

RMS
2022_07_07_001.thx

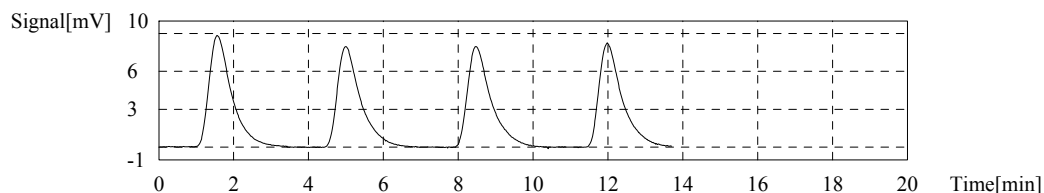
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.496mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.11	4.723mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:18:25 AM
2	34.64	4.409mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:22:53 AM
3	35.86	4.564mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:27:25 AM
4	35.48	4.516mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:31:41 AM

Mean Area 35.33
Mean Conc. 4.496mg/L



Control Sample

Sample Name: SEQ-CCV2
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 19.39 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

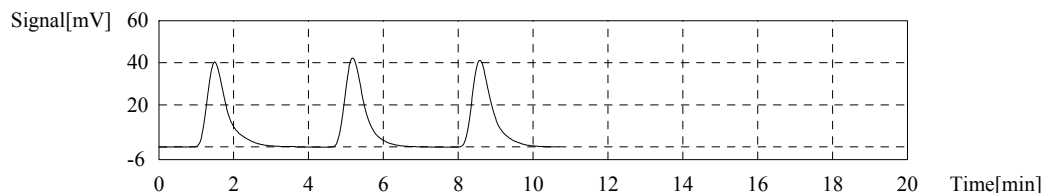
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:19.39ppm

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	150.3	18.99ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:43:12 AM
2	154.5	19.52ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:47:36 AM
3	155.5	19.65ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:52:13 AM

Mean Area 153.4
Mean Conc. 19.39ppm



Control Sample

TOC-Control L Report

RMS
2022_07_07_001.thx

Sample Name: SEQ-CCB2
 Sample ID:
 Method: ICB CCB.tpl
 Status: Completed
 Chk. Result: Control value: 0.05399 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

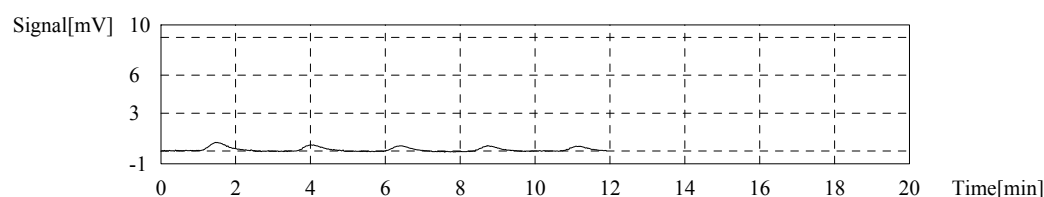
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.05399mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.575	0.1856mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:02:37 AM
2	1.663	0.06956mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:05:58 AM
3	1.466	0.04448mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:09:27 AM
4	1.493	0.04792mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:12:59 AM
5	1.238	0.01546mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:16:23 AM

Mean Area: 1.541
 Mean Conc.: 0.05399mg/L



Sample

Sample Name: BKG0051-MS2
 Sample ID:
 Origin: NPOC 0.5 - 50 ppm.cal
 Status: Completed
 Chk. Result

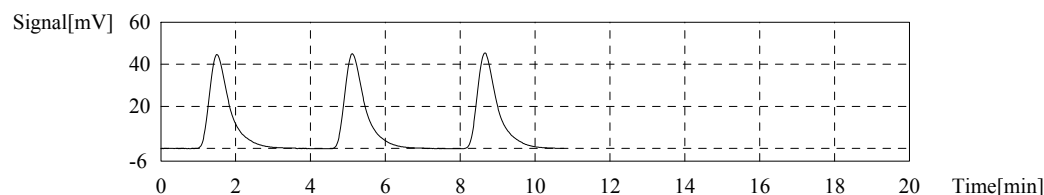
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:21.74mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	169.1	21.52mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:28:13 AM
2	171.0	21.76mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:32:44 AM
3	172.2	21.92mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:37:21 AM

Mean Area: 170.8
 Mean Conc.: 21.74mg/L



TOC-Control L Report

RMS
2022_07_07_001.thx

Sample

Sample Name: 22F0476-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

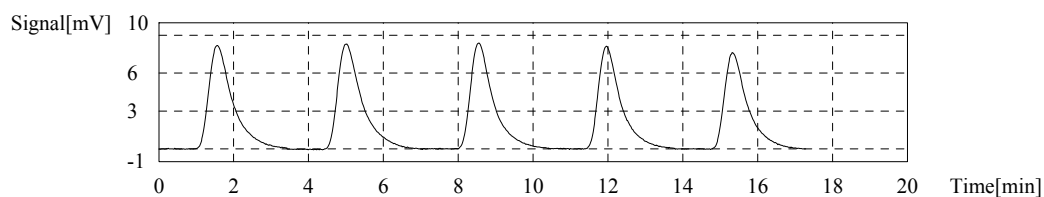
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.682mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.27	4.616mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:48:40 AM
2	38.07	4.846mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:53:14 AM
3	36.02	4.585mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:57:38 AM
4	34.20	4.353mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:01:59 AM
5	32.93	4.191mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:06:28 AM

Mean Area 36.79
Mean Conc. 4.682mg/L



Sample

Sample Name: 22G0009-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

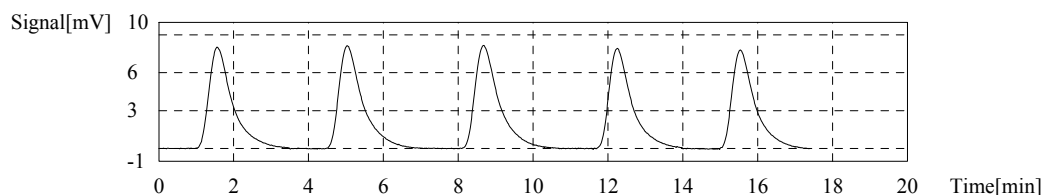
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.570mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	35.01	4.456mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:17:51 AM
2	36.34	4.625mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:22:27 AM
3	36.36	4.628mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:27:02 AM
4	33.40	4.251mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:31:18 AM
5	33.66	4.284mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:35:41 AM

Mean Area 35.90
Mean Conc. 4.570mg/L



TOC-Control L Report

RMS
2022_07_07_001.thx

Sample

Sample Name: 22G0009-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

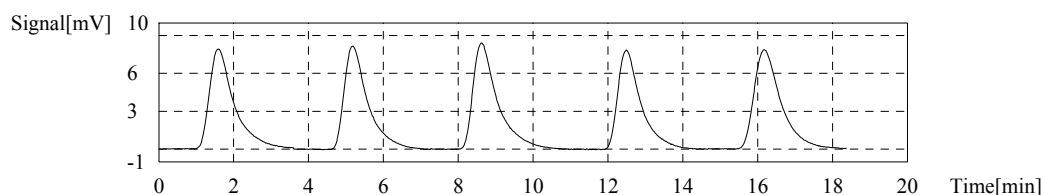
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.526mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.22	4.610mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:47:11 AM
2	36.22	4.610mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:51:38 AM
3	38.94	4.956mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:56:29 AM
4	34.24	4.358mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:00:53 AM
5	39.43	5.019mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:05:53 AM

Mean Area 35.56
Mean Conc. 4.526mg/L



Sample

Sample Name: BKG0052-MRL1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

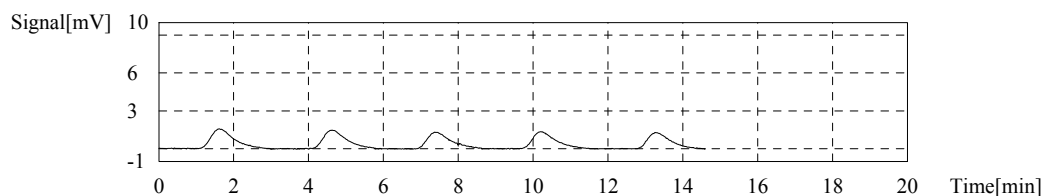
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7207mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.721	0.8554mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:16:46 AM
2	6.232	0.7932mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:20:33 AM
3	5.594	0.7120mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:24:22 AM
4	5.878	0.7482mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:28:27 AM
5	5.515	0.7019mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:32:19 AM

Mean Area 5.662
Mean Conc. 0.7207mg/L



TOC-Control L Report

RMS
2022_07_07_001.thx

Sample

Sample Name: BKG0052-BLK1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

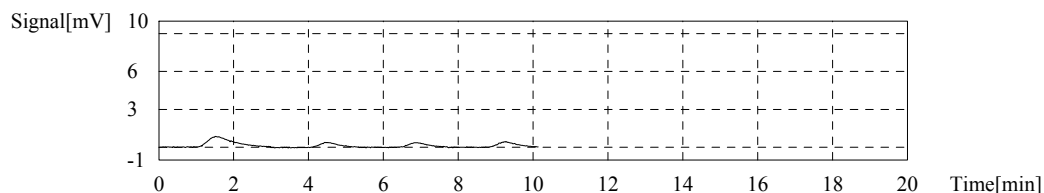
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1727mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.892	0.4954mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:43:12 AM
2	1.259	0.1602mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:46:32 AM
3	1.366	0.1739mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:50:20 AM
4	1.446	0.1840mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:54:09 AM

Mean Area 1.357
Mean Conc. 0.1727mg/L



Sample

Sample Name: BKG0052-BS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

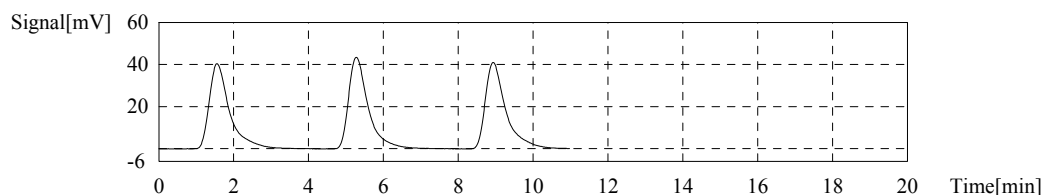
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.97mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	154.1	19.61mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:05:36 AM
2	159.5	20.30mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:10:16 AM
3	157.2	20.01mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:14:51 AM

Mean Area 156.9
Mean Conc. 19.97mg/L



TOC-Control L Report

RMS
2022_07_07_001.thx

Sample

Sample Name: BKG0053-MRL1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

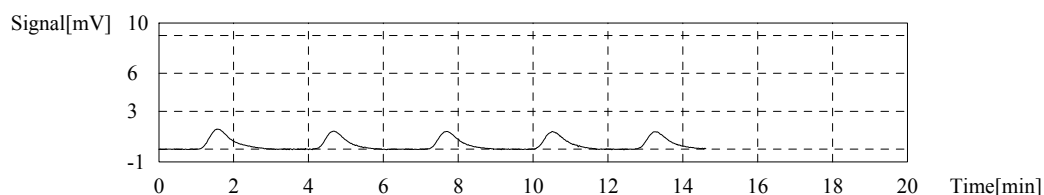
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7031mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.725	0.8560mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:25:52 AM
2	5.661	0.7205mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:29:52 AM
3	5.483	0.6979mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:33:42 AM
4	5.427	0.6907mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:37:27 AM
5	5.718	0.7278mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:41:24 AM

Mean Area 5.524
Mean Conc. 0.7031mg/L



Sample

Sample Name: BKG0053-BLK1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

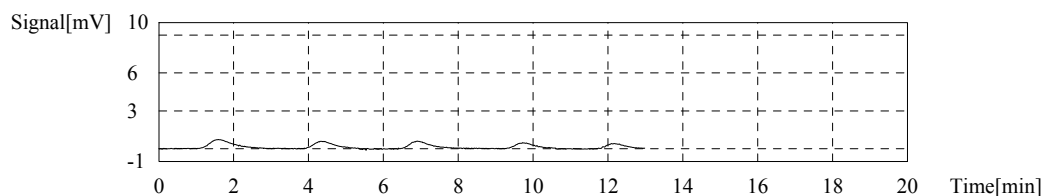
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2124mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.971	0.3781mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:52:07 AM
2	2.138	0.2721mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:55:40 AM
3	2.526	0.3215mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:59:43 AM
4	1.515	0.1928mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:03:08 AM
5	1.354	0.1723mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:06:52 AM

Mean Area 1.669
Mean Conc. 0.2124mg/L



TOC-Control L Report

RMS
2022_07_07_001.th

Sample

Sample Name: BKG0053-BS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

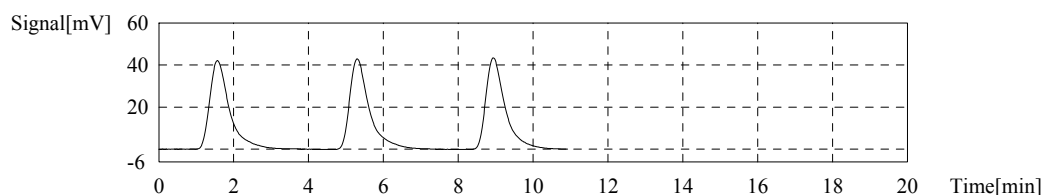
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.01mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	156.3	19.89mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:18:24 AM
2	157.9	20.10mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:23:01 AM
3	157.4	20.03mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:27:32 AM

Mean Area 157.2
Mean Conc. 20.01mg/L



Control Sample

Sample Name: SEQ-CCV3
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 19.89 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

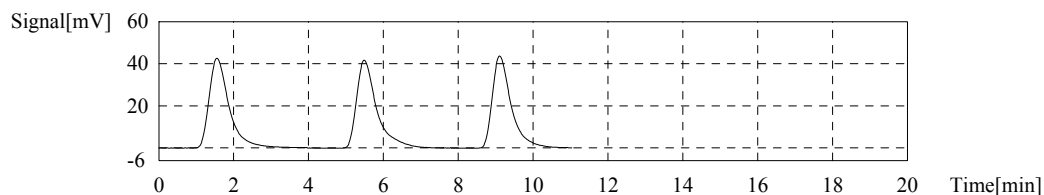
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:19.89ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	159.3	20.13ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:39:33 AM
2	158.2	19.99ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:44:11 AM
3	154.7	19.55ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:48:37 AM

Mean Area 157.4
Mean Conc. 19.89ppm



TOC-Control L Report

RMS
2022_07_07_001.thx

Control Sample

Sample Name: SEQ-CCB3
Sample ID:
Method: ICB CCB.tpl
Status: Completed
Chk. Result: Control value: 0.09047 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

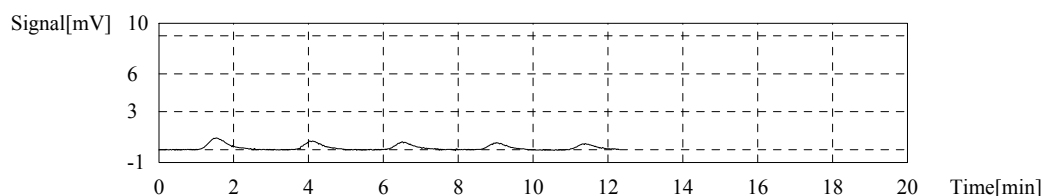
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.09047mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.264	0.2733mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:59:05 AM
2	2.202	0.1382mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:02:30 AM
3	2.022	0.1153mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:06:03 AM
4	1.682	0.07198mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:09:25 AM
5	1.778	0.08419mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:13:00 AM

Mean Area: 1.827
Mean Conc.: 0.09047mg/L



Sample

Sample Name: 22F0321-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result:

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	10.00	NPOC:6527mg/L

1. Det

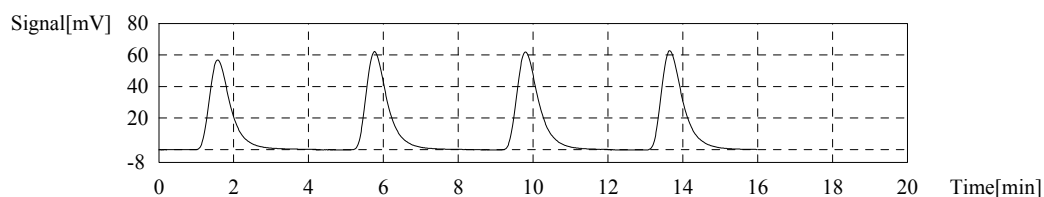
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	229.5	5842mg/L	100ul	20.00	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:25:33 AM
2	252.1	6417mg/L	100ul	20.00	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:30:26 AM
3	258.1	6570mg/L	100ul	20.00	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:35:11 AM
4	259.0	6593mg/L	100ul	20.00	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:40:05 AM

TOC-Control L Report

RMS
2022_07_07_001.thx

Mean Area 256.4
Mean Conc. 6527mg/L



Sample

Sample Name: BKG0052-DUP1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

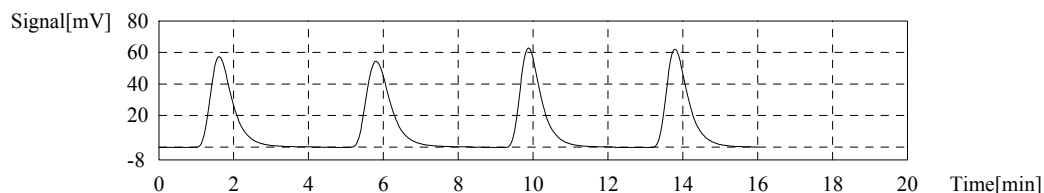
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	10.00	NPOC:6524mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	245.1	6239mg/L	100ul	20.00	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:52:22 AM
2	253.5	6453mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:57:25 AM
3	255.9	6514mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:02:11 AM
4	259.5	6606mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:06:57 AM

Mean Area 256.3
Mean Conc. 6524mg/L



Sample

Sample Name: BKG0052-MS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	10.00	NPOC:6366mg/L

1. Det

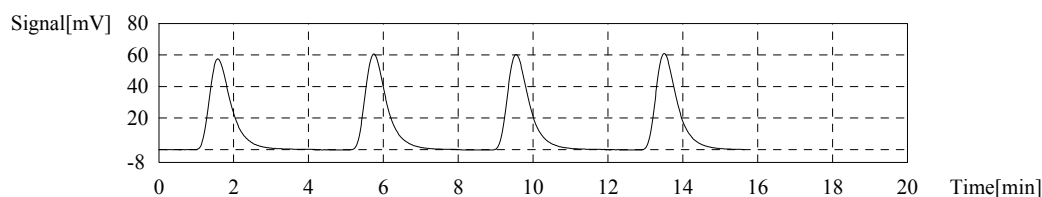
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	239.6	6099mg/L	100ul	20.00	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:19:23 AM
2	248.8	6333mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:24:03 AM
3	251.0	6389mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:29:05 AM
4	250.4	6374mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:33:42 AM

TOC-Control L Report

RMS
2022_07_07_001.tk

Mean Area 250.1
Mean Conc. 6366mg/L



Sample

Sample Name: DI Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

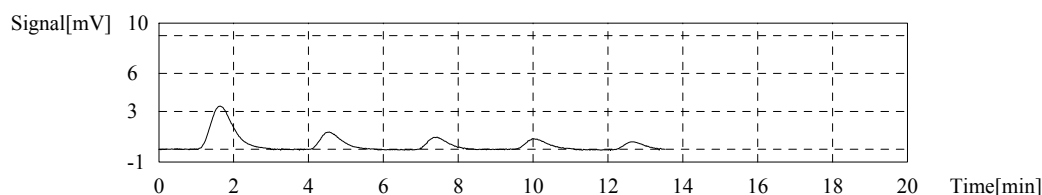
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4070mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.21	1.809mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:44:46 AM
2	5.636	0.7173mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:48:36 AM
3	4.019	0.5115mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:52:13 AM
4	3.241	0.4125mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:55:59 AM
5	2.333	0.2969mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:59:33 AM

Mean Area 3.198
Mean Conc. 0.4070mg/L



Sample

Sample Name: 22F0322-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:106.4mg/L

1. Det

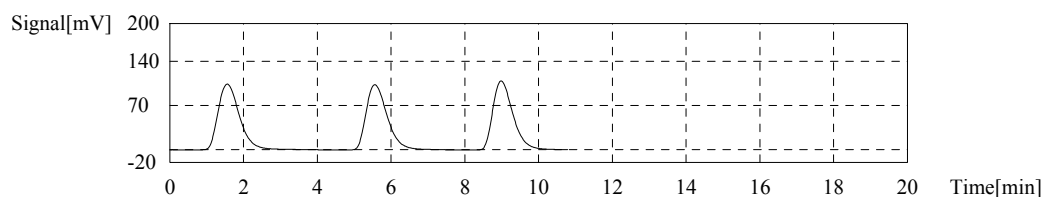
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	423.6	107.8mg/L	50ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:11:18 AM
2	412.6	105.0mg/L	50ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:15:44 AM
3	418.3	106.5mg/L	50ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:20:02 AM

TOC-Control L Report

RMS
2022_07_07_001.thx

Mean Area 418.2
Mean Conc. 106.4mg/L



Sample

Sample Name: 22F0339-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

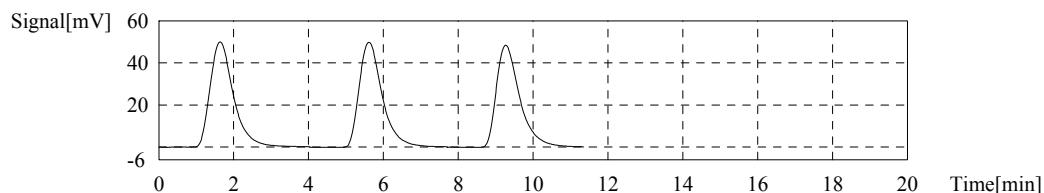
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.42mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	219.0	27.87mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:31:57 AM
2	216.0	27.49mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:36:37 AM
3	211.4	26.91mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:41:15 AM

Mean Area 215.5
Mean Conc. 27.42mg/L



Sample

Sample Name: BKG0053-DUP1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.72mg/L

1. Det

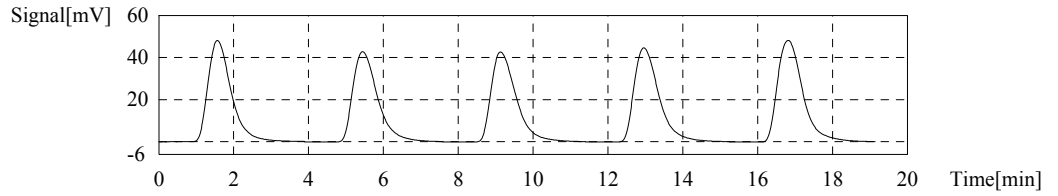
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	208.8	26.58mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:53:02 AM
2	199.3	25.37mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:57:43 AM
3	199.1	25.34mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:02:31 PM
4	207.9	26.46mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:07:20 PM
5	227.8	28.99mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:12:13 PM

TOC-Control L Report

RMS
2022_07_07_001.thx

Mean Area 202.1
Mean Conc. 25.72mg/L



Sample

Sample Name: BKG0053-MS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

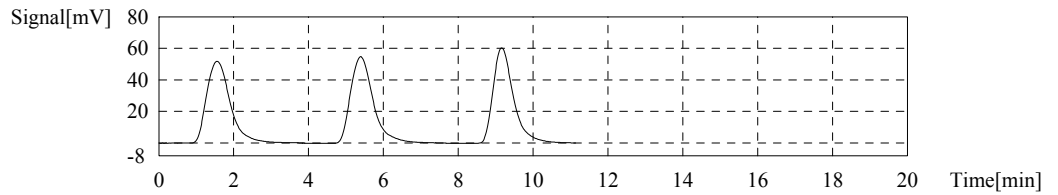
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:58.81mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	228.4	58.14mg/L	50ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:23:58 PM
2	233.9	59.54mg/L	50ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:28:47 PM
3	230.8	58.75mg/L	50ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:33:14 PM

Mean Area 231.0
Mean Conc. 58.81mg/L



Sample

Sample Name: 22F0340-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5358mg/L

1. Det

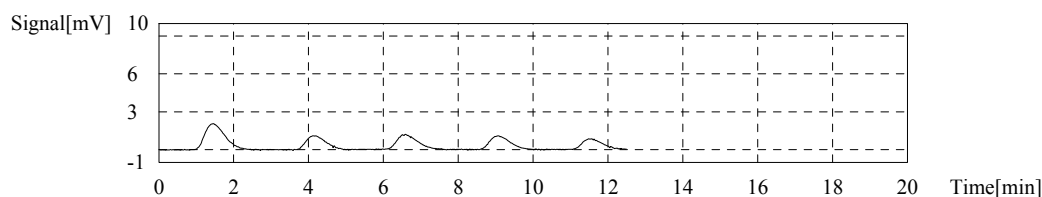
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.921	1.008mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:43:50 PM
2	4.117	0.5240mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:47:20 PM
3	4.413	0.5617mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:51:10 PM
4	4.100	0.5218mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:54:58 PM
5	3.067	0.3904mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:58:41 PM

TOC-Control L Report

RMS
2022_07_07_001.thx

Mean Area 4.210
Mean Conc. 0.5358mg/L



Control Sample

Sample Name: SEQ-CCV4
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 19.68 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

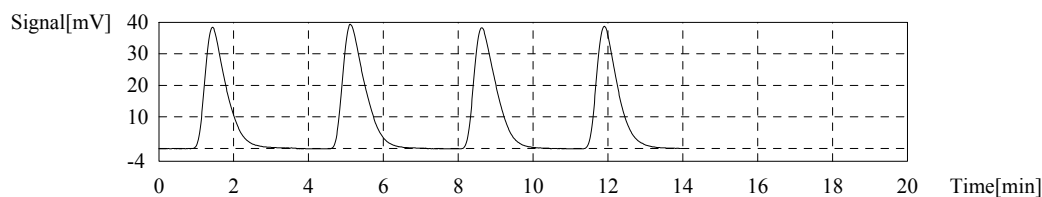
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:19.68ppm

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	154.4	19.51ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:10:06 PM
2	164.1	20.74ppm	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:14:35 PM
3	158.8	20.07ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:18:51 PM
4	153.9	19.45ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:23:19 PM

Mean Area 155.7
Mean Conc. 19.68ppm



Control Sample

Sample Name: SEQ-CCB4
Sample ID: ICB CCB.tpl
Method: ICB CCB.tpl
Status: Completed
Chk. Result: Control value: 0.1727 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.1727mg/L

1. Det.

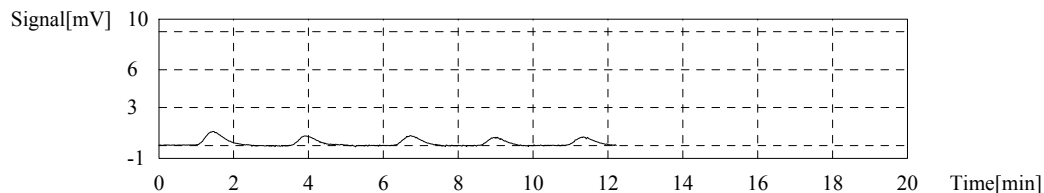
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_07_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.699	0.3287mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:33:41 PM
2	3.440	0.2957mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:37:29 PM
3	2.528	0.1797mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:40:44 PM
4	2.406	0.1641mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:44:17 PM
5	2.487	0.1744mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:47:48 PM

Mean Area 2.474
Mean Conc. 0.1727mg/L





ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKG0136

Instrument: TOC-LCSH

Calibration: FG00018

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
1	SKG0136-ICV1	ShimadzuData_07142022@1016-002	NA	07/11/22 18:05
1	SKG0136-ICB1	ShimadzuData_07142022@1016-003	NA	07/11/22 18:31
1	SKG0136-IFA1	ShimadzuData_07142022@1016-004	NA	07/11/22 18:49
MRL Check	BKG0191-MRL1	ShimadzuData_07142022@1016-005	Water	07/11/22 19:16
Blank	BKG0191-BLK1	ShimadzuData_07142022@1016-006	Water	07/11/22 19:37
LCS	BKG0191-BS1	ShimadzuData_07142022@1016-007	Water	07/11/22 20:00
1	SKG0136-CCV1	ShimadzuData_07142022@1016-014	NA	07/11/22 22:38
1	SKG0136-CCB1	ShimadzuData_07142022@1016-015	NA	07/11/22 23:04
1	SKG0136-CCV2	ShimadzuData_07142022@1016-026	NA	07/12/22 03:49
1	SKG0136-CCB2	ShimadzuData_07142022@1016-027	NA	07/12/22 04:11
Z1A-4-PW	22G0121-02	ShimadzuData_07142022@1016-033	Water	07/12/22 07:12
Z1A-7-PW	22G0121-03	ShimadzuData_07142022@1016-034	Water	07/12/22 07:40
1	SKG0136-CCV3	ShimadzuData_07142022@1016-038	NA	07/12/22 09:10
1	SKG0136-CCB3	ShimadzuData_07142022@1016-039	NA	07/12/22 09:32

	Type	Analysis	Sample Name	Sample ID	Origin	Manua	Result	Notes	Status	Date / Time	Vial
1	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.2645mg/L		Completed	7/11/2022 5:54:10 PM	0
2	Control	NPOC	SEQ-ICV1	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:18.42ppm	Control v	Completed	7/11/2022 6:14:12 PM	3
3	Control	NPOC	SEQ-ICB1		ICB CCB.tpl	1.000	NPOC:0.1017mg/L	Control v	Completed	7/11/2022 6:38:28 PM	4
4	Unknown	NPOC	SEQ-IFA1		NPOC 0.5 - 50 p	1.000	NPOC:18.74mg/L		Completed	7/11/2022 6:58:52 PM	9
5	Unknown	NPOC	BKG0191-MRL1		NPOC 0.5 - 50 p	1.000	NPOC:0.2174mg/L		Completed	7/11/2022 7:24:13 PM	10
6	Unknown	NPOC	BKG0191-BLK1		NPOC 0.5 - 50 p	1.000	NPOC:0.2560mg/L		Completed	7/11/2022 7:49:29 PM	11
7	Unknown	NPOC	BKG0191-BS1		NPOC 0.5 - 50 p	1.000	NPOC:18.44mg/L		Completed	7/11/2022 8:09:09 PM	12
8	Unknown	NPOC	22F0401-01		NPOC 0.5 - 50 p	1.000	NPOC:0.3185mg/L		Completed	7/11/2022 8:34:23 PM	13
9	Unknown	NPOC	22F0401-03		NPOC 0.5 - 50 p	1.000	NPOC:0.3022mg/L		Completed	7/11/2022 8:59:33 PM	14
10	Unknown	NPOC	22F0401-05		NPOC 0.5 - 50 p	1.000	NPOC:0.7176mg/L		Completed	7/11/2022 9:21:04 PM	15
11	Unknown	NPOC	22F0401-07		NPOC 0.5 - 50 p	1.000	NPOC:0.5187mg/L		Completed	7/11/2022 9:38:51 PM	16
12	Unknown	NPOC	22F0404-01		NPOC 0.5 - 50 p	1.000	NPOC:0.2628mg/L		Completed	7/11/2022 10:04:27 PM	17
13	Unknown	NPOC	22F0404-03		NPOC 0.5 - 50 p	1.000	NPOC:3.168mg/L		Completed	7/11/2022 10:22:16 PM	18
14	Control	NPOC	SEQ-CCV1	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:18.40ppm	Control v	Completed	7/11/2022 10:46:48 PM	3
15	Control	NPOC	SEQ-CCB1		ICB CCB.tpl	1.000	NPOC:0.1212mg/L	Control v	Completed	7/11/2022 11:10:58 PM	4
16	Unknown	NPOC	22F0404-05		NPOC 0.5 - 50 p	1.000	NPOC:0.2870mg/L		Completed	7/11/2022 11:36:34 PM	19
17	Unknown	NPOC	22F0404-07		NPOC 0.5 - 50 p	1.000	NPOC:0.2809mg/L		Completed	7/12/2022 12:01:42 AM	20
18	Unknown	NPOC	22F0416-01		NPOC 0.5 - 50 p	1.000	NPOC:0.5842mg/L		Completed	7/12/2022 12:23:20 AM	21
19	Unknown	NPOC	22F0416-02		NPOC 0.5 - 50 p	1.000	NPOC:0.2296mg/L		Completed	7/12/2022 12:48:46 AM	22
20	Unknown	NPOC	22F0462-01		NPOC 0.5 - 50 p	1.000	NPOC:0.9284mg/L		Completed	7/12/2022 1:14:16 AM	23
21	Unknown	NPOC	22F0462-03		NPOC 0.5 - 50 p	1.000	NPOC:1.611mg/L		Completed	7/12/2022 1:32:35 AM	24
22	Unknown	NPOC	22F0485-01		NPOC 0.5 - 50 p	1.000	NPOC:0.8363mg/L		Completed	7/12/2022 1:58:19 AM	25
23	Unknown	NPOC	22F0485-03		NPOC 0.5 - 50 p	1.000	NPOC:12.19mg/L		Completed	7/12/2022 2:34:51 AM	26
24	Unknown	NPOC	22F0485-05		NPOC 0.5 - 50 p	1.000	NPOC:1.292mg/L		Completed	7/12/2022 3:01:32 AM	27
25	Unknown	NPOC	22F0485-07		NPOC 0.5 - 50 p	1.000	NPOC:8.972mg/L		Completed	7/12/2022 3:37:54 AM	28
26	Control	NPOC	SEQ-CCV2	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:18.28ppm	Control v	Completed	7/12/2022 3:57:45 AM	5
27	Control	NPOC	SEQ-CCB2		ICB CCB.tpl	1.000	NPOC:0.1147mg/L	Control v	Completed	7/12/2022 4:21:59 AM	6
28	Unknown	NPOC	22F0485-09		NPOC 0.5 - 50 p	1.000	NPOC:7.149mg/L		Completed	7/12/2022 4:58:50 AM	29
29	Unknown	NPOC	BKG0191-DUP1		NPOC 0.5 - 50 p	1.000	NPOC:5.787mg/L		Completed	7/12/2022 5:36:21 AM	30
30	Unknown	NPOC	BKG0191-MS1		NPOC 0.5 - 50 p	1.000	NPOC:23.74mg/L		Completed	7/12/2022 6:01:01 AM	31
31	Unknown	NPOC	BKG0191-MSD1		NPOC 0.5 - 50 p	1.000	NPOC:23.33mg/L		Completed	7/12/2022 6:25:44 AM	32
32	Unknown	NPOC	22F0485-11		NPOC 0.5 - 50 p	1.000	NPOC:3.881mg/L		Completed	7/12/2022 6:56:16 AM	33
33	Unknown	NPOC	22G0121-02		NPOC 0.5 - 50 p	1.000	NPOC:29.86mg/L		Completed	7/12/2022 7:21:08 AM	34
34	Unknown	NPOC	22G0121-03		NPOC 0.5 - 50 p	1.000	NPOC:23.43mg/L		Completed	7/12/2022 7:48:39 AM	35
35	Unknown	NPOC	BKG0192-MRL1		NPOC 0.5 - 50 p	1.000	NPOC:0.2927mg/L		Completed	7/12/2022 8:14:01 AM	36
36	Unknown	NPOC	BKG0192-BLK1		NPOC 0.5 - 50 p	1.000	NPOC:0.1953mg/L		Completed	7/12/2022 8:39:03 AM	37
37	Unknown	NPOC	BKG0192-BS1		NPOC 0.5 - 50 p	1.000	NPOC:18.29mg/L		Completed	7/12/2022 8:58:44 AM	38
38	Control	NPOC	SEQ-CCV3	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:18.24ppm	Control v	Completed	7/12/2022 9:18:37 AM	5
39	Control	NPOC	SEQ-CCB3		ICB CCB.tpl	1.000	NPOC:0.09323mg/L	Control v	Completed	7/12/2022 9:42:44 AM	6
40	Unknown	NPOC	22F0448-01		NPOC 0.5 - 50 p	1.000	NPOC:11.40mg/L		Completed	7/12/2022 10:04:33 AM	39

	Type	Analysis	Sample Name	Sample ID	Origin	Manua	Result	Notes	Status	Date / Time	Vial
41	Unknown	NPOC	22G0035-01		NPOC 0.5 - 50 p	1.000	NPOC:4.668mg/L		Completed	7/12/2022 10:31:47 AM	40
42	Unknown	NPOC	BKG0192-DUP1		NPOC 0.5 - 50 p	1.000	NPOC:4.291mg/L		Completed	7/12/2022 10:58:47 AM	41
43	Unknown	NPOC	BKG0192-MS1		NPOC 0.5 - 50 p	1.000	NPOC:22.08mg/L		Completed	7/12/2022 11:19:27 AM	42
44	Unknown	NPOC	22G0092-01		NPOC 0.5 - 50 p	1.000	NPOC:4.752mg/L		Completed	7/12/2022 11:46:10 AM	43
45	Unknown	NPOC	22G0109-01		NPOC 0.5 - 50 p	1.000	NPOC:4.504mg/L		Completed	7/12/2022 12:09:22 PM	44
46	Unknown	NPOC	22G0109-03		NPOC 0.5 - 50 p	1.000	NPOC:4.489mg/L		Completed	7/12/2022 12:28:05 PM	45
47	Unknown	NPOC	22G0129-01		NPOC 0.5 - 50 p	1.000	NPOC:7.019mg/L		Completed	7/12/2022 12:47:35 PM	46
48	Unknown	NPOC	BKG0201-MRL1		NPOC 0.5 - 50 p	1.000	NPOC:0.6653mg/L		Completed	7/12/2022 1:13:17 PM	47
49	Unknown	NPOC	BKG0201-BLK1		NPOC 0.5 - 50 p	1.000	NPOC:0.2831mg/L		Completed	7/12/2022 1:34:59 PM	48
50	Control	NPOC	SEQ-CCV4	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:17.54ppm	Control v	Completed	7/12/2022 1:54:58 PM	7
51	Control	NPOC	SEQ-CCB4		ICB CCB.tpl	1.000	NPOC:0.1215mg/L	Control v	Completed	7/12/2022 2:19:08 PM	8
52	Unknown	NPOC	BKG0201-BS1		NPOC 0.5 - 50 p	1.000	NPOC:17.77mg/L		Completed	7/12/2022 2:39:10 PM	49
53	Unknown	NPOC	22G0129-01		NPOC 0.5 - 50 p	1.000	NPOC:7.047mg/L		Completed	7/12/2022 2:58:55 PM	50
54	Unknown	NPOC	BKG0201-DUP1		NPOC 0.5 - 50 p	1.000	NPOC:7.096mg/L		Completed	7/12/2022 3:22:34 PM	51
55	Unknown	NPOC	BKG0201-MS1		NPOC 0.5 - 50 p	1.000	NPOC:23.95mg/L		Completed	7/12/2022 3:43:44 PM	52
56	Control	NPOC	SEQ-CCV5	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:17.94ppm	Control v	Completed	7/12/2022 4:03:46 PM	7
57	Control	NPOC	SEQ-CCB5		ICB CCB.tpl	1.000	NPOC:0.2755mg/L	Control v	Completed	7/12/2022 4:27:55 PM	8

TOC-Control L Report

RMS
2022_07_11_001.thx

Instr.Information

Instrument Options
Catalyst

TOC/ASI/IC Unit/
Regular Sensitivity

Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

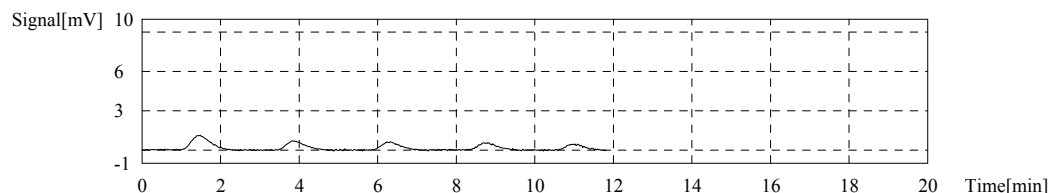
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2645mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.732	0.4750mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 5:40:15 PM
2	2.612	0.3325mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 5:43:45 PM
3	2.718	0.3459mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 5:47:15 PM
4	1.792	0.2281mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 5:50:37 PM
5	1.830	0.2329mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 5:54:10 PM

Mean Area 2.078
Mean Conc. 0.2645mg/L



Control Sample

Sample Name: SEQ-ICV1
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 18.42 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:18.42ppm

1. Det

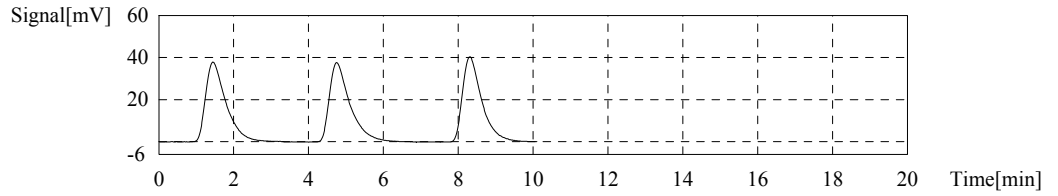
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	144.3	18.22ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 6:05:28 PM
2	146.4	18.49ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 6:09:59 PM
3	146.8	18.54ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 6:14:12 PM

TOC-Control L Report

RMS
2022_07_11_001.thx

Mean Area 145.8
Mean Conc. 18.42ppm



Control Sample

Sample Name: SEQ-ICB1
 Sample ID:
 Method: ICB CCB.tpl
 Status: Completed
 Chk. Result: Control value: 0.1017 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

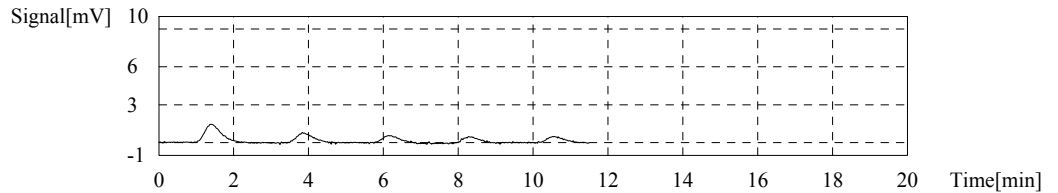
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.1017mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.566	0.4391mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 6:24:31 PM
2	2.889	0.2256mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 6:27:53 PM
3	1.918	0.1020mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 6:31:16 PM
4	2.137	0.1299mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 6:34:53 PM
5	1.691	0.07312mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 6:38:28 PM

Mean Area 1.915
Mean Conc. 0.1017mg/L



Sample

Sample Name: SEQ-IFA1
 Sample ID:
 Origin: NPOC 0.5 - 50 ppm.cal
 Status: Completed
 Chk. Result:

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:18.74mg/L

1. Det

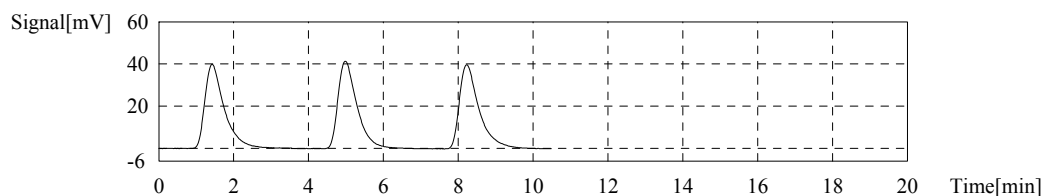
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_11_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	145.5	18.52mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 6:49:58 PM
2	147.5	18.77mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 6:54:12 PM
3	148.7	18.93mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 6:58:52 PM

Mean Area 147.2
Mean Conc. 18.74mg/L



Sample

Sample Name: BKG0191-MRL1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

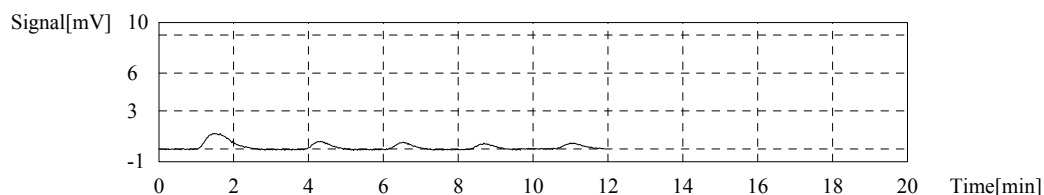
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2174mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.725	0.7287mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 7:09:37 PM
2	2.281	0.2903mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 7:12:49 PM
3	1.764	0.2245mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 7:16:32 PM
4	1.609	0.2048mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 7:20:29 PM
5	1.750	0.2227mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 7:24:13 PM

Mean Area 1.708
Mean Conc. 0.2174mg/L



Sample

Sample Name: BKG0191-BLK1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2560mg/L

1. Det

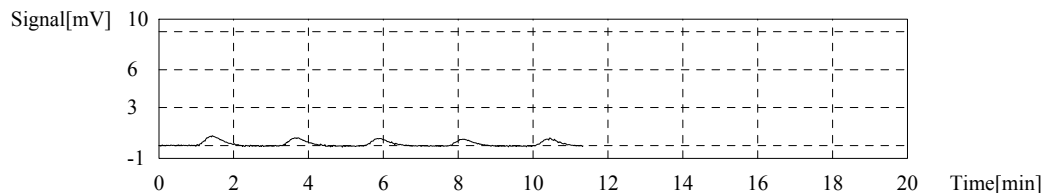
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_11_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.576	0.3279mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 7:34:09 PM
2	2.071	0.2636mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 7:37:56 PM
3	1.794	0.2283mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 7:41:45 PM
4	1.988	0.2530mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 7:45:35 PM
5	1.974	0.2513mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 7:49:29 PM

Mean Area 2.011
Mean Conc. 0.2560mg/L



Sample

Sample Name: BKG0191-BS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

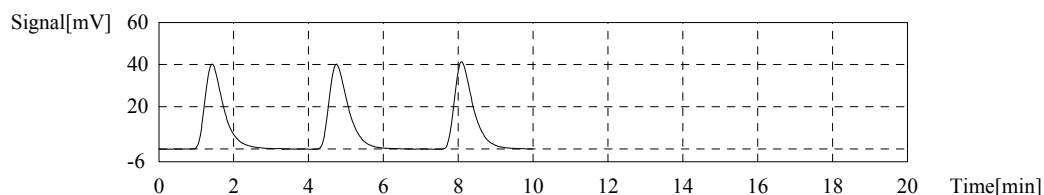
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:18.44mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	142.9	18.19mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 8:00:31 PM
2	145.8	18.56mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 8:04:51 PM
3	146.0	18.58mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 8:09:09 PM

Mean Area 144.9
Mean Conc. 18.44mg/L



Sample

Sample Name: 22F0401-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3185mg/L

1. Det

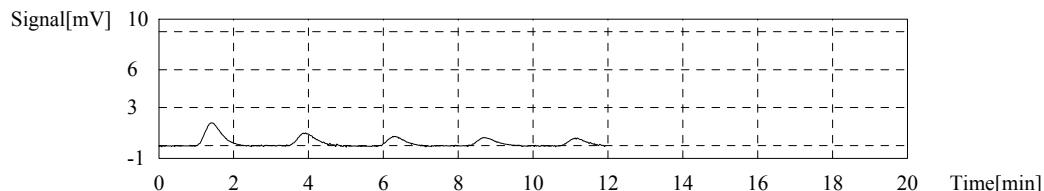
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_11_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.867	0.7468mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 8:19:30 PM
2	3.558	0.4529mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 8:23:11 PM
3	3.057	0.3891mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 8:27:01 PM
4	2.221	0.2827mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 8:30:48 PM
5	2.228	0.2836mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 8:34:23 PM

Mean Area 2.502
Mean Conc. 0.3185mg/L



Sample

Sample Name: 22F0401-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

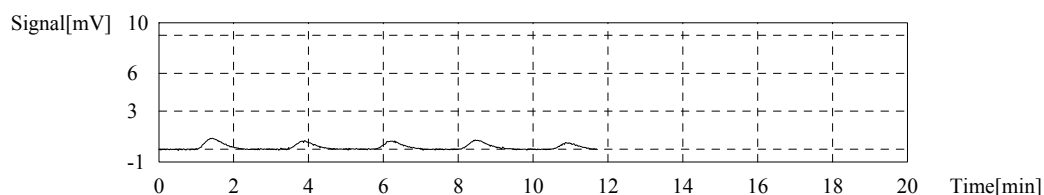
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3022mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.229	0.4110mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 8:44:32 PM
2	2.458	0.3129mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 8:48:13 PM
3	2.119	0.2697mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 8:51:57 PM
4	2.547	0.3242mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 8:55:53 PM
5	1.628	0.2072mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 8:59:33 PM

Mean Area 2.375
Mean Conc. 0.3022mg/L



Sample

Sample Name: 22F0401-05
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7176mg/L

1. Det

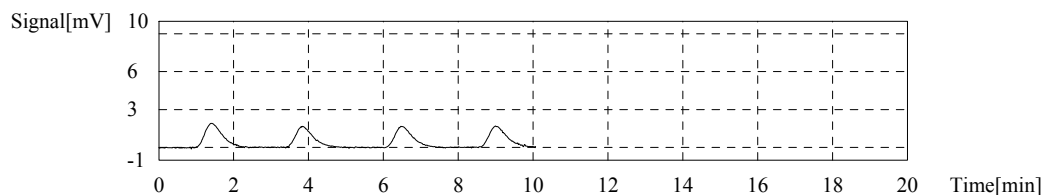
TOC-Control L Report

RMS
2022_07_11_001.tk

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.619	0.8425mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 9:09:42 PM
2	5.682	0.7232mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 9:13:41 PM
3	5.692	0.7245mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 9:17:20 PM
4	5.540	0.7051mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 9:21:04 PM

Mean Area 5.638
Mean Conc. 0.7176mg/L



Sample

Sample Name: 22F0401-07
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

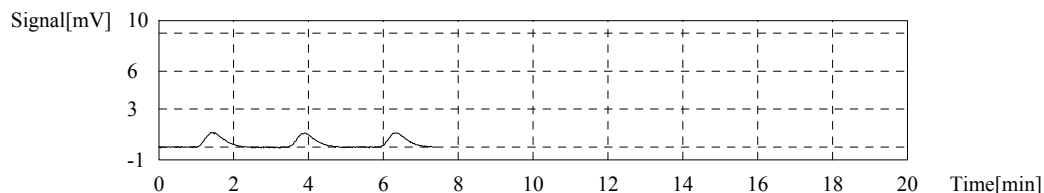
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5187mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.088	0.5203mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 9:31:14 PM
2	3.990	0.5078mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 9:35:01 PM
3	4.148	0.5280mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 9:38:51 PM

Mean Area 4.075
Mean Conc. 0.5187mg/L



Sample

Sample Name: 22F0404-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2628mg/L

1. Det

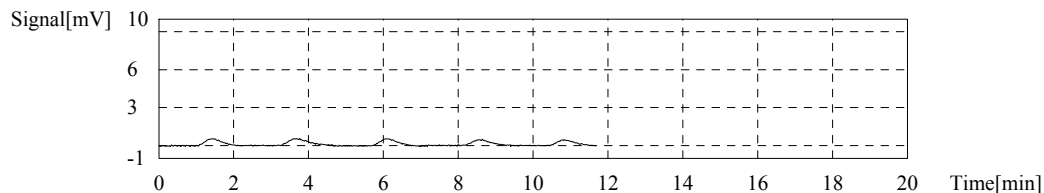
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_11_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.173	0.2766mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 9:49:15 PM
2	2.050	0.2609mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 9:53:15 PM
3	1.972	0.2510mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 9:57:04 PM
4	1.523	0.1938mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 10:00:40 PM
5	1.446	0.1840mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 10:04:27 PM

Mean Area 2.065
Mean Conc. 0.2628mg/L



Sample

Sample Name: 22F0404-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

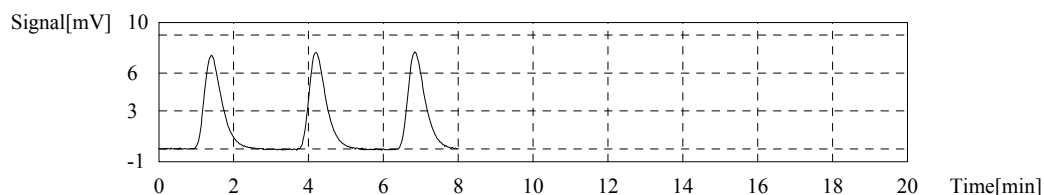
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.168mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	24.59	3.130mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 10:14:57 PM
2	25.00	3.182mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 10:18:36 PM
3	25.08	3.192mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 10:22:16 PM

Mean Area 24.89
Mean Conc. 3.168mg/L



Control Sample

Sample Name: SEQ-CCV1
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 18.40 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:18.40ppm

1. Det.

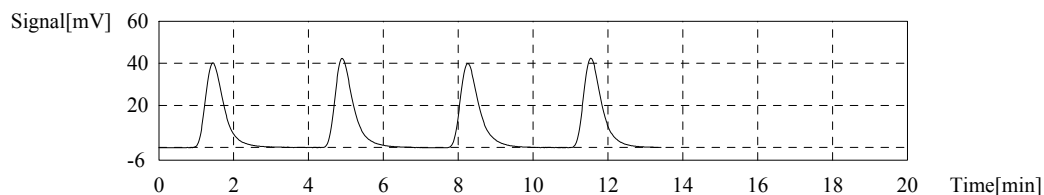
TOC-Control L Report

RMS
2022_07_11_001.thx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	140.9	17.79ppm	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 10:33:51 PM
2	147.1	18.58ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 10:38:12 PM
3	143.5	18.12ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 10:42:29 PM
4	146.4	18.49ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 10:46:48 PM

Mean Area 145.7
Mean Conc. 18.40ppm



Control Sample

Sample Name: SEQ-CCB1
 Sample ID:
 Method: ICB CCB.tpl
 Status: Completed
 Chk. Result: Control value: 0.1212 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

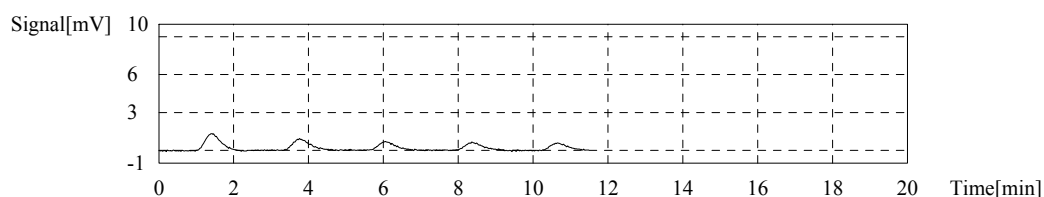
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.1212mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.233	0.3967mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 10:57:03 PM
2	2.759	0.2091mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 11:00:29 PM
3	2.214	0.1397mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 11:04:01 PM
4	1.942	0.1051mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 11:07:28 PM
5	2.050	0.1188mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 11:10:58 PM

Mean Area 2.069
Mean Conc. 0.1212mg/L



Sample

Sample Name: 22F0404-05
 Sample ID:
 Origin: NPOC 0.5 - 50 ppm.cal
 Status: Completed
 Chk. Result:

TOC-Control L Report

RMS
2022_07_11_001.thx

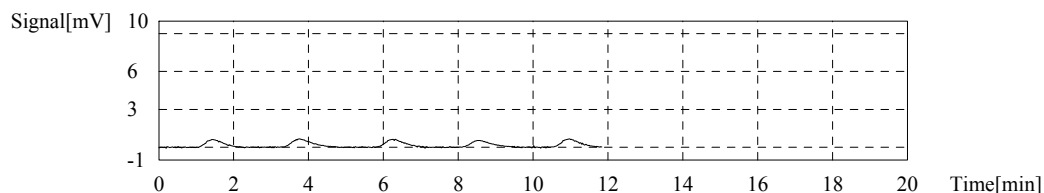
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2870mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.269	0.2888mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 11:21:24 PM
2	2.741	0.3489mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 11:25:23 PM
3	2.246	0.2859mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 11:28:58 PM
4	2.011	0.2560mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 11:32:52 PM
5	2.249	0.2863mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 11:36:34 PM

Mean Area 2.255
Mean Conc. 0.2870mg/L



Sample

Sample Name: 22F0404-07
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

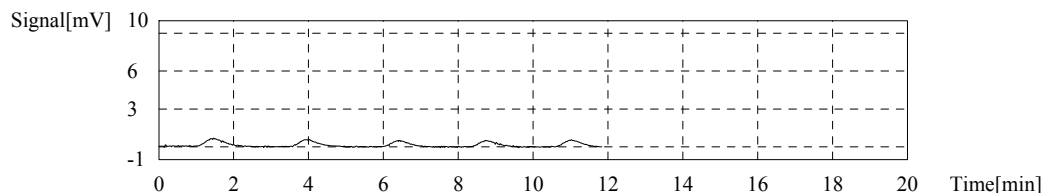
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2809mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.238	0.2849mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 11:46:48 PM
2	2.325	0.2959mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 11:50:33 PM
3	2.057	0.2618mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 11:54:13 PM
4	1.701	0.2165mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/11/2022 11:57:54 PM
5	1.821	0.2318mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:01:42 AM

Mean Area 2.207
Mean Conc. 0.2809mg/L



Sample

TOC-Control L Report

RMS
2022_07_11_001.thx

Sample Name: 22F0416-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

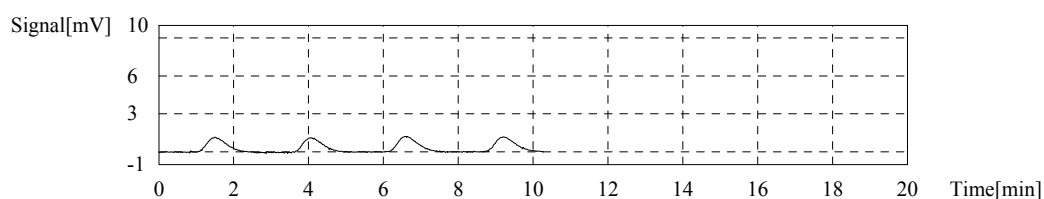
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5842mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.535	0.5772mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:11:59 AM
2	4.623	0.5884mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:15:45 AM
3	4.782	0.6087mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:19:34 AM
4	4.612	0.5870mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:23:20 AM

Mean Area 4.590
Mean Conc. 0.5842mg/L



Sample

Sample Name: 22F0416-02
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

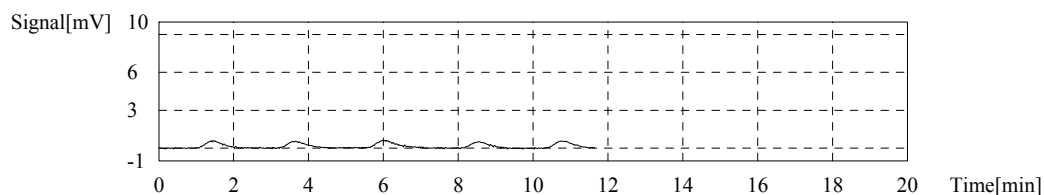
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2296mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.890	0.2406mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:33:29 AM
2	1.831	0.2330mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:37:27 AM
3	2.068	0.2632mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:41:23 AM
4	1.690	0.2151mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:44:53 AM
5	2.078	0.2645mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:48:46 AM

Mean Area 1.804
Mean Conc. 0.2296mg/L



Sample

TOC-Control L Report

RMS
2022_07_11_001.thx

Sample Name: 22F0462-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

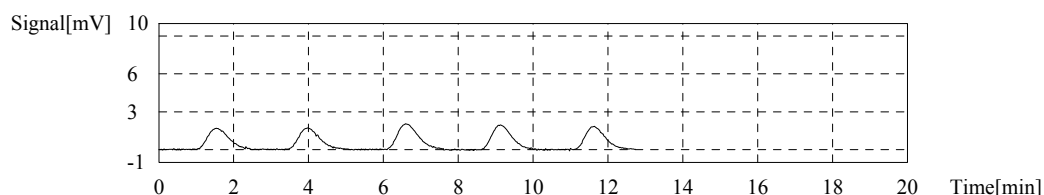
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.9284mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.172	0.7856mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:58:55 AM
2	6.550	0.8337mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:02:54 AM
3	7.440	0.9470mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:06:35 AM
4	7.335	0.9336mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:10:19 AM
5	7.108	0.9047mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:14:16 AM

Mean Area 7.294
Mean Conc. 0.9284mg/L



Sample

Sample Name: 22F0462-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

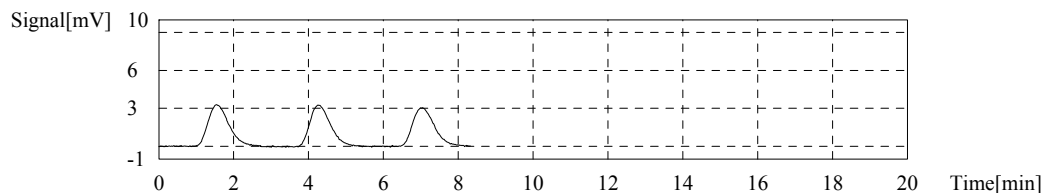
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.611mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.71	1.618mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:24:52 AM
2	12.86	1.637mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:28:40 AM
3	12.40	1.578mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:32:35 AM

Mean Area 12.66
Mean Conc. 1.611mg/L



Sample

TOC-Control L Report

RMS
2022_07_11_001.thx

Sample Name: 22F0485-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

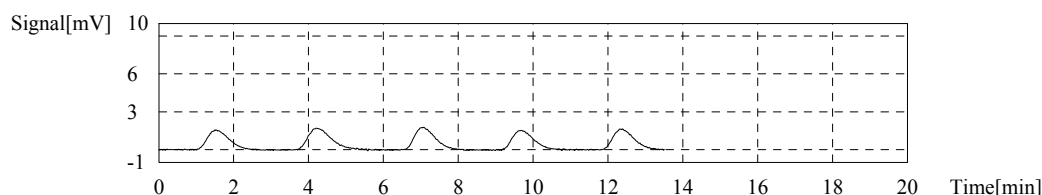
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8363mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.471	0.8236mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:43:09 AM
2	7.564	0.9627mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:47:07 AM
3	6.955	0.8852mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:50:41 AM
4	6.568	0.8360mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:54:34 AM
5	6.672	0.8492mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:58:19 AM

Mean Area 6.570
Mean Conc. 0.8363mg/L



Sample

Sample Name: 22F0485-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

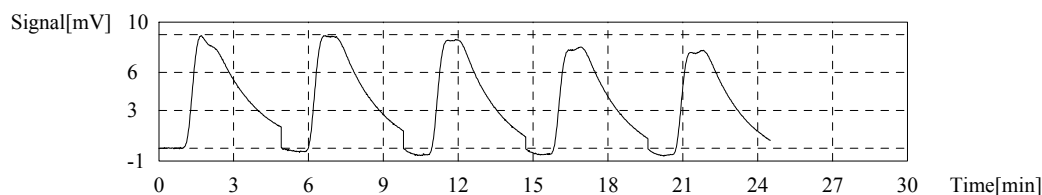
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:12.19mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	94.21	11.99mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:11:05 AM
2	104.8	13.34mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:17:05 AM
3	101.7	12.94mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:22:58 AM
4	98.41	12.53mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:28:56 AM
5	94.65	12.05mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:34:51 AM

Mean Area 95.76
Mean Conc. 12.19mg/L



TOC-Control L Report

RMS
2022_07_11_001.thx

Sample

Sample Name: 22F0485-05
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

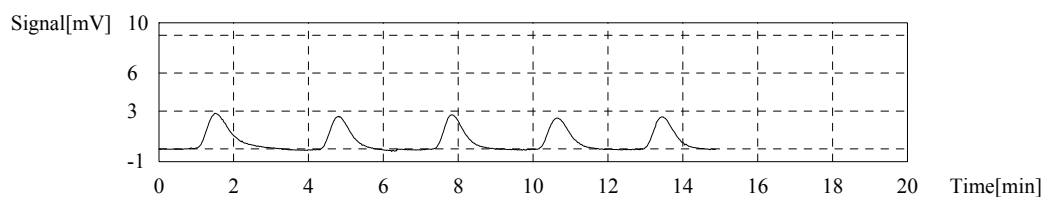
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.292mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.92	1.644mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:46:01 AM
2	10.91	1.389mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:50:04 AM
3	10.26	1.306mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:53:50 AM
4	10.10	1.286mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:57:37 AM
5	10.10	1.286mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:01:32 AM

Mean Area 10.15
Mean Conc. 1.292mg/L



Sample

Sample Name: 22F0485-07
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

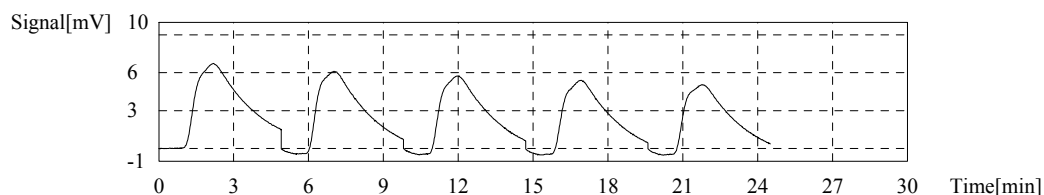
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.972mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.45	9.221mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:14:20 AM
2	71.93	9.155mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:20:13 AM
3	67.08	8.538mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:26:06 AM
4	64.49	8.208mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:32:00 AM
5	60.95	7.758mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:37:54 AM

Mean Area 70.49
Mean Conc. 8.972mg/L



TOC-Control L Report

RMS
2022_07_11_001.thx

Control Sample

Sample Name: SEQ-CCV2
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 18.28 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

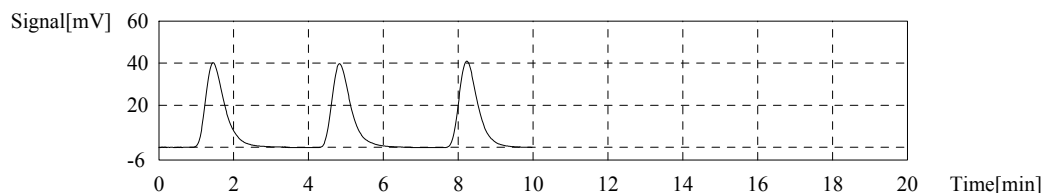
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:18.28ppm

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	145.3	18.35ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:49:12 AM
2	142.6	18.01ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:53:32 AM
3	146.2	18.47ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:57:45 AM

Mean Area: 144.7
Mean Conc.: 18.28ppm



Control Sample

Sample Name: SEQ-CCB2
Sample ID: ICB CCB.tpl
Method: Completed
Status: Completed
Chk. Result: Control value: 0.1147 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.1147mg/L

1. Det.

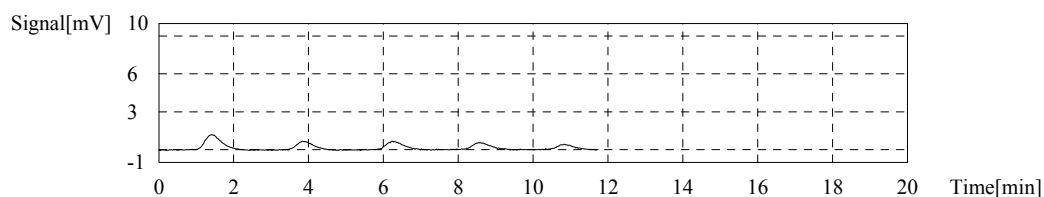
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.743	0.3343mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:08:04 AM
2	2.213	0.1396mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:11:31 AM
3	2.164	0.1333mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:14:56 AM
4	1.675	0.07108mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:18:24 AM
5	1.265	0.01890mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:21:59 AM

TOC-Control L Report

RMS
2022_07_11_001.thx

Mean Area 2.017
Mean Conc. 0.1147mg/L



Sample

Sample Name: 22F0485-09
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

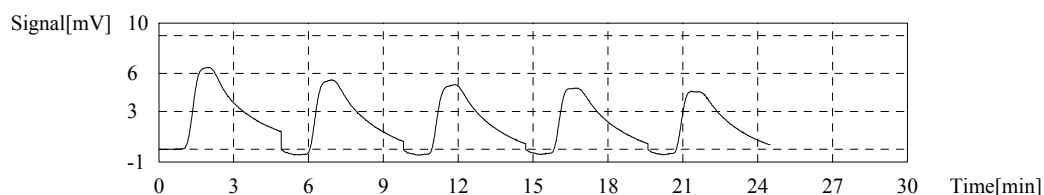
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.149mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	64.75	8.241mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:35:03 AM
2	61.95	7.885mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:40:57 AM
3	58.27	7.417mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:46:54 AM
4	56.39	7.177mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:52:52 AM
5	53.84	6.853mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:58:50 AM

Mean Area 56.17
Mean Conc. 7.149mg/L



Sample

Sample Name: BKG0191-DUP1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.787mg/L

1. Det

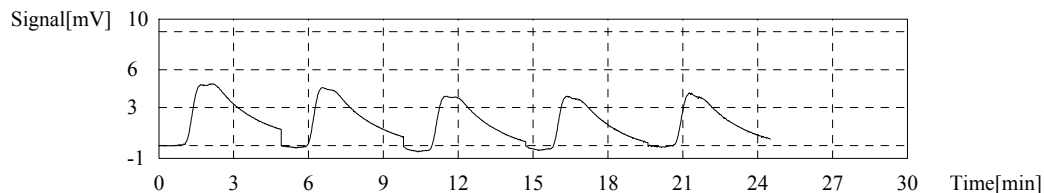
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_11_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	53.50	6.809mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 5:11:39 AM
2	49.50	6.300mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 5:18:02 AM
3	47.65	6.065mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 5:24:00 AM
4	44.59	5.675mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 5:29:59 AM
5	44.16	5.621mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 5:36:21 AM

Mean Area 45.47
Mean Conc. 5.787mg/L



Sample

Sample Name: BKG0191-MS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

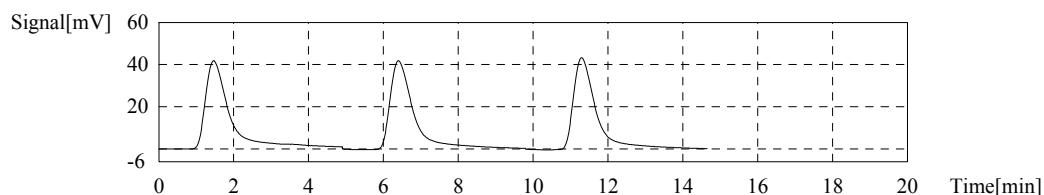
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.74mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	186.9	23.79mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 5:49:10 AM
2	185.9	23.66mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 5:55:07 AM
3	186.8	23.78mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 6:01:01 AM

Mean Area 186.5
Mean Conc. 23.74mg/L



Sample

Sample Name: BKG0191-MSD1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.33mg/L

1. Det

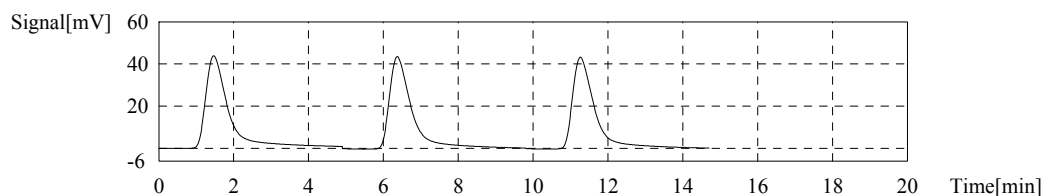
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_11_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	184.8	23.52mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 6:13:50 AM
2	183.6	23.37mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 6:19:47 AM
3	181.5	23.10mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 6:25:44 AM

Mean Area 183.3
Mean Conc. 23.33mg/L



Sample

Sample Name: 22F0485-11
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

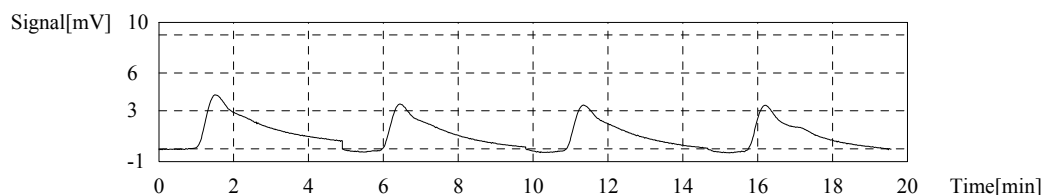
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.881mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	35.37	4.502mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 6:38:33 AM
2	30.97	3.942mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 6:44:30 AM
3	30.58	3.892mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 6:50:22 AM
4	29.93	3.809mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 6:56:16 AM

Mean Area 30.49
Mean Conc. 3.881mg/L



Sample

Sample Name: 22G0121-02
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:29.86mg/L

1. Det

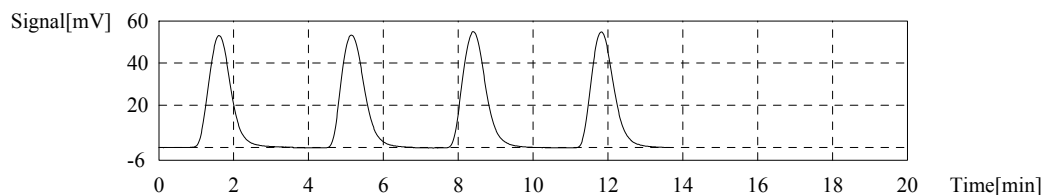
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_11_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	220.7	28.09mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 7:08:02 AM
2	231.7	29.49mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 7:12:16 AM
3	239.2	30.45mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 7:16:43 AM
4	233.0	29.66mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 7:21:08 AM

Mean Area 234.6
Mean Conc. 29.86mg/L



Sample

Sample Name: 22G0121-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

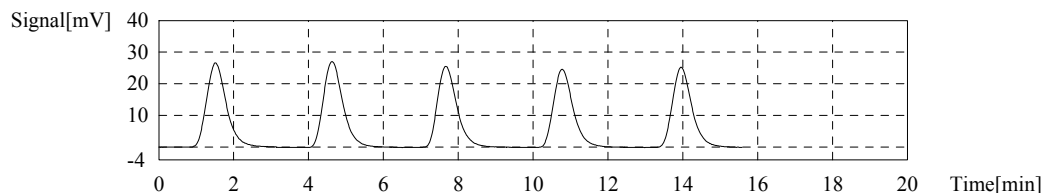
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.43mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.83	25.16mg/L	50uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 7:32:12 AM
2	99.76	25.39mg/L	50uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 7:36:16 AM
3	93.21	23.73mg/L	50uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 7:40:21 AM
4	90.51	23.04mg/L	50uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 7:44:30 AM
5	92.43	23.53mg/L	50uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 7:48:39 AM

Mean Area 92.05
Mean Conc. 23.43mg/L



Sample

Sample Name: BKG0192-MRL1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2927mg/L

1. Det

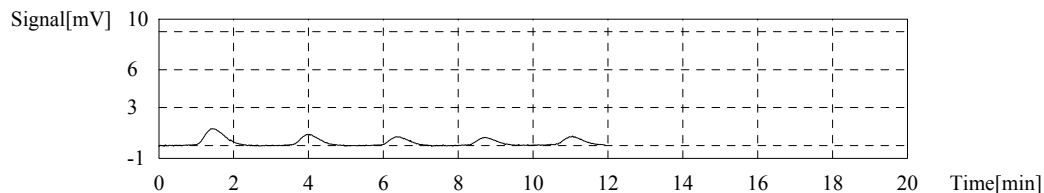
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_11_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.465	0.6956mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 7:59:08 AM
2	2.908	0.3701mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 8:02:44 AM
3	2.421	0.3081mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 8:06:28 AM
4	2.169	0.2761mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 8:10:14 AM
5	2.310	0.2940mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 8:14:01 AM

Mean Area 2.300
Mean Conc. 0.2927mg/L



Sample

Sample Name: BKG0192-BLK1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

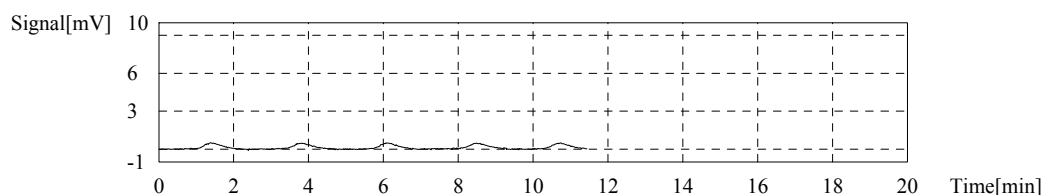
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1953mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.946	0.2477mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 8:24:10 AM
2	1.725	0.2196mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 8:27:51 AM
3	1.632	0.2077mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 8:31:43 AM
4	1.471	0.1872mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 8:35:19 AM
5	1.501	0.1910mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 8:39:03 AM

Mean Area 1.535
Mean Conc. 0.1953mg/L



Sample

Sample Name: BKG0192-BS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:18.29mg/L

1. Det

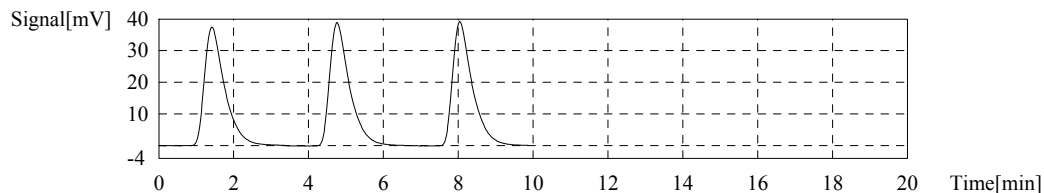
TOC-Control L Report

RMS
2022_07_11_001.tx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	141.6	18.02mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 8:50:09 AM
2	144.6	18.40mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 8:54:25 AM
3	145.0	18.46mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 8:58:44 AM

Mean Area 143.7
Mean Conc. 18.29mg/L



Control Sample

Sample Name: SEQ-CCV3
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 18.24 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

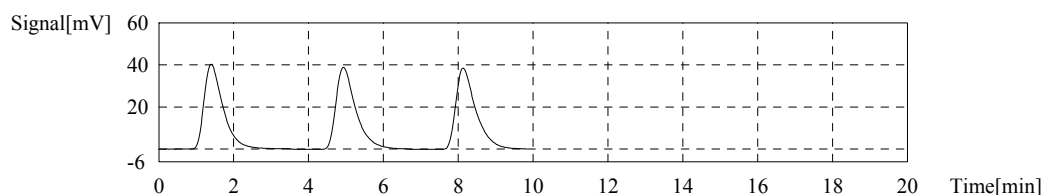
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:18.24ppm

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	144.0	18.19ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 9:10:19 AM
2	145.1	18.33ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 9:14:30 AM
3	144.2	18.21ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 9:18:37 AM

Mean Area 144.4
Mean Conc. 18.24ppm



Control Sample

Sample Name: SEQ-CCB3
Sample ID: ICB CCB.tpl
Method: ICB CCB.tpl
Status: Completed
Chk. Result: Control value: 0.09323 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

TOC-Control L Report

RMS
2022_07_11_001.thx

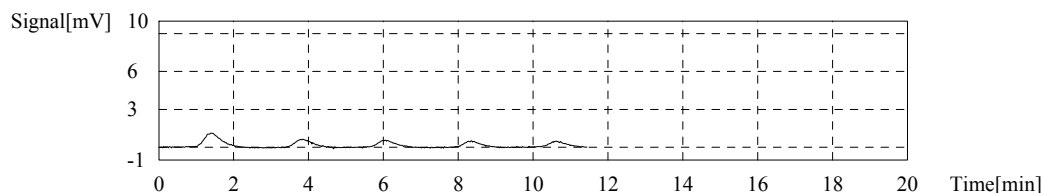
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.09323mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.467	0.2992mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 9:28:57 AM
2	2.076	0.1221mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 9:32:13 AM
3	1.851	0.09349mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 9:35:49 AM
4	1.620	0.06408mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 9:39:18 AM
5	1.246	0.01648mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 9:42:44 AM

Mean Area 1.849
Mean Conc. 0.09323mg/L



Sample

Sample Name: 22F0448-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

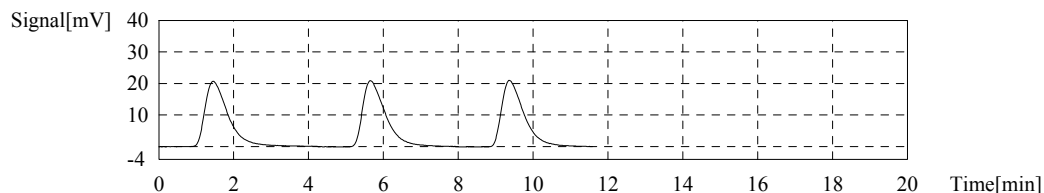
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.40mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.44	11.51mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 9:55:14 AM
2	89.27	11.36mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 9:59:55 AM
3	88.92	11.32mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 10:04:33 AM

Mean Area 89.54
Mean Conc. 11.40mg/L



Sample

Sample Name: 22G0035-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

TOC-Control L Report

RMS
2022_07_11_001.thx

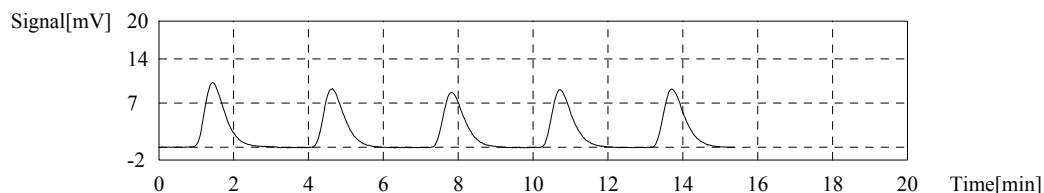
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.668mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	39.89	5.077mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 10:15:38 AM
2	36.87	4.693mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 10:19:47 AM
3	34.66	4.412mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 10:23:42 AM
4	35.81	4.558mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 10:27:39 AM
5	37.34	4.753mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 10:31:47 AM

Mean Area 36.67
Mean Conc. 4.668mg/L



Sample

Sample Name: BKG0192-DUP1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

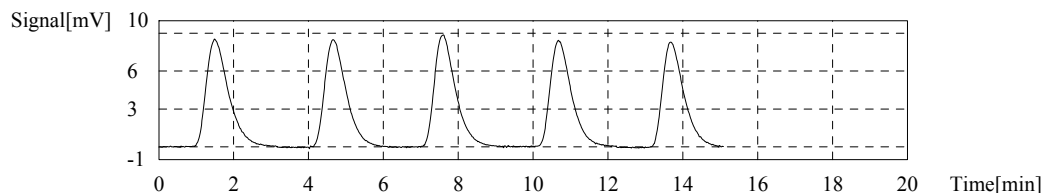
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.291mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	35.62	4.534mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 10:42:51 AM
2	34.32	4.368mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 10:46:47 AM
3	35.59	4.530mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 10:50:56 AM
4	33.44	4.256mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 10:54:56 AM
5	33.39	4.250mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 10:58:47 AM

Mean Area 33.72
Mean Conc. 4.291mg/L



Sample

TOC-Control L Report

RMS
2022_07_11_001.th

Sample Name: BKG0192-MS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

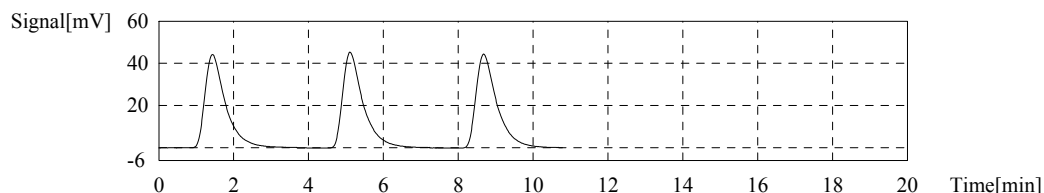
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:22.08mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	170.9	21.75mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 11:10:22 AM
2	174.6	22.22mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 11:14:54 AM
3	175.0	22.27mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 11:19:27 AM

Mean Area 173.5
Mean Conc. 22.08mg/L



Sample

Sample Name: 22G0092-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

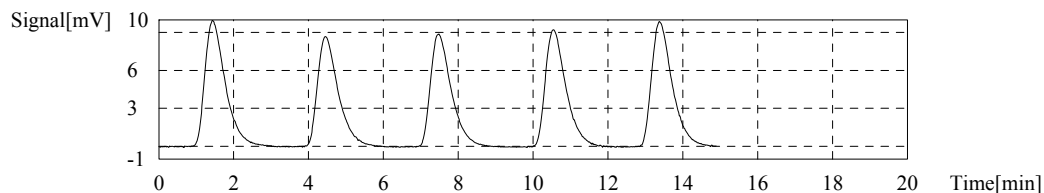
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.752mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.86	4.819mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 11:30:21 AM
2	33.92	4.317mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 11:34:21 AM
3	34.75	4.423mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 11:38:24 AM
4	36.09	4.594mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 11:42:13 AM
5	38.05	4.843mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 11:46:10 AM

Mean Area 37.33
Mean Conc. 4.752mg/L



Sample

TOC-Control L Report

RMS
2022_07_11_001.th

Sample Name: 22G0109-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

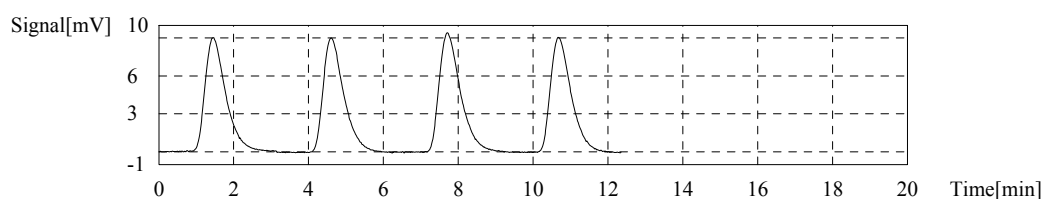
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.504mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	35.09	4.466mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 11:57:13 AM
2	35.56	4.526mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:01:18 PM
3	37.38	4.758mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:05:15 PM
4	35.52	4.521mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:09:22 PM

Mean Area 35.39
Mean Conc. 4.504mg/L



Sample

Sample Name: 22G0109-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

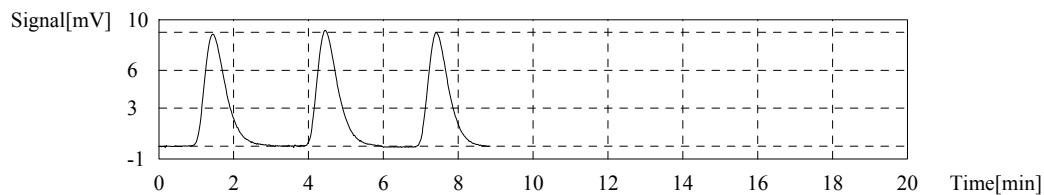
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.489mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	35.09	4.466mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:20:15 PM
2	35.78	4.554mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:24:12 PM
3	34.93	4.446mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:28:05 PM

Mean Area 35.27
Mean Conc. 4.489mg/L



Sample

TOC-Control L Report

RMS
2022_07_11_001.thx

Sample Name: 22G0129-01
 Sample ID:
 Origin: NPOC 0.5 - 50 ppm.cal
 Status: Completed
 Chk. Result

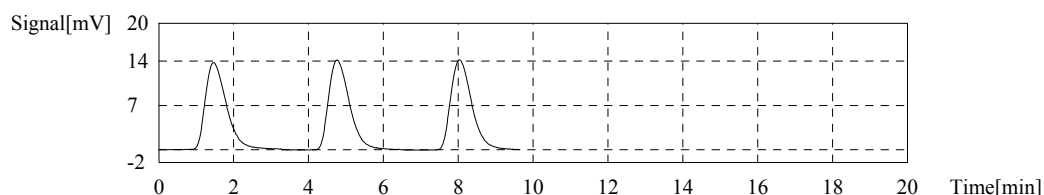
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.019mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	54.13	6.890mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:39:16 PM
2	55.40	7.051mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:43:30 PM
3	55.91	7.116mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:47:35 PM

Mean Area 55.15
 Mean Conc. 7.019mg/L



Sample

Sample Name: BKG0201-MRL1
 Sample ID:
 Origin: NPOC 0.5 - 50 ppm.cal
 Status: Completed
 Chk. Result

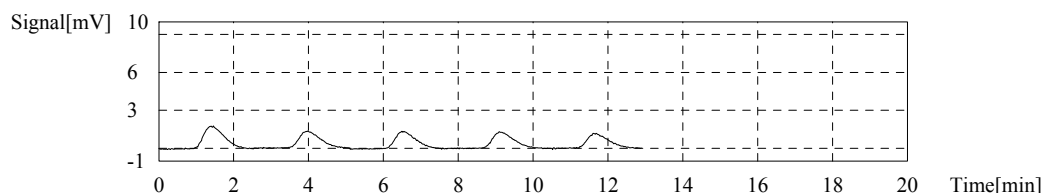
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6653mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.861	0.8733mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 12:58:02 PM
2	5.043	0.6419mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:01:51 PM
3	5.303	0.6750mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:05:40 PM
4	4.930	0.6275mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:09:23 PM
5	5.336	0.6792mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:13:17 PM

Mean Area 5.227
 Mean Conc. 0.6653mg/L



Sample

TOC-Control L Report

RMS
2022_07_11_001.th

Sample Name: BKG0201-BLK1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

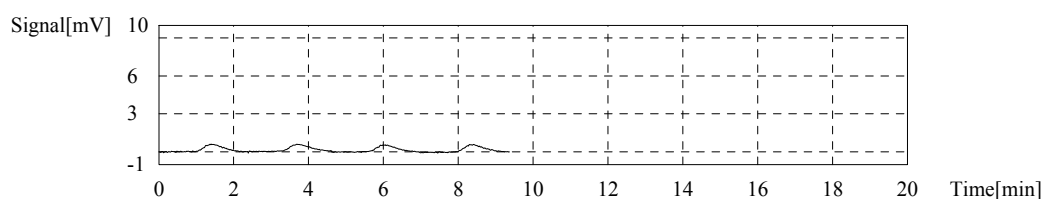
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2831mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.280	0.2902mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:23:31 PM
2	2.027	0.2580mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:27:19 PM
3	2.129	0.2710mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:31:07 PM
4	2.263	0.2880mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:34:59 PM

Mean Area: 2.224
Mean Conc.: 0.2831mg/L



Control Sample

Sample Name: SEQ-CCV4
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 17.54 / Control exceeds range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

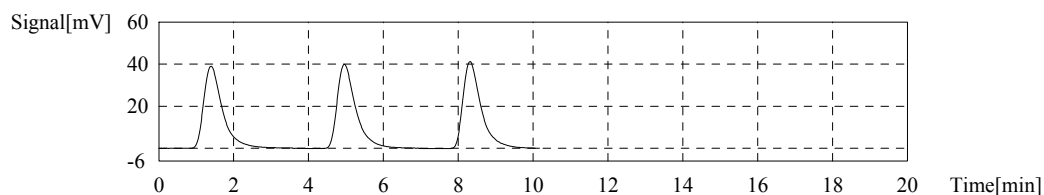
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:17.54ppm

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	136.9	17.28ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:46:19 PM
2	139.1	17.56ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:50:42 PM
3	140.7	17.77ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 1:54:58 PM

Mean Area: 138.9
Mean Conc.: 17.54ppm



TOC-Control L Report

RMS
2022_07_11_001.thx

Control Sample

Sample Name: SEQ-CCB4
Sample ID:
Method: ICB CCB.tpl
Status: Completed
Chk. Result: Control value: 0.1215 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

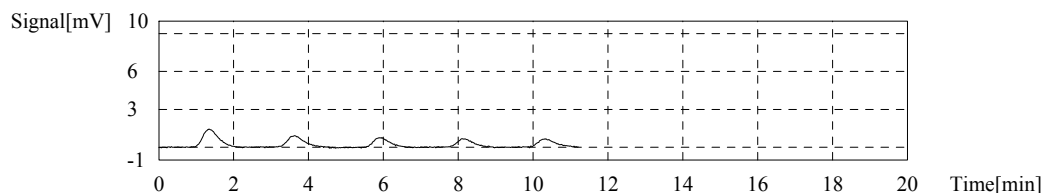
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.1215mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.546	0.4365mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:05:08 PM
2	2.989	0.2383mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:08:39 PM
3	2.384	0.1613mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:12:07 PM
4	1.924	0.1028mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:15:30 PM
5	1.906	0.1005mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:19:08 PM

Mean Area: 2.071
Mean Conc.: 0.1215mg/L



Sample

Sample Name: BKG0201-BS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result:

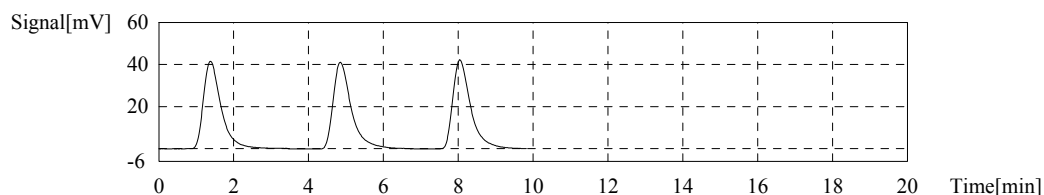
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.77mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	137.3	17.48mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:30:49 PM
2	140.2	17.84mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:35:01 PM
3	141.4	18.00mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:39:10 PM

Mean Area: 139.6
Mean Conc.: 17.77mg/L



TOC-Control L Report

RMS
2022_07_11_001.thx

Sample

Sample Name: 22G0129-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

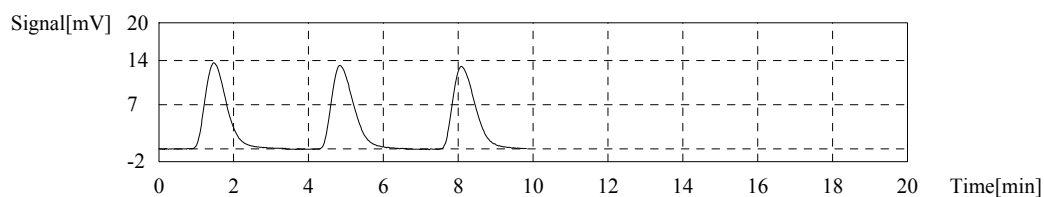
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.047mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	55.22	7.028mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:50:29 PM
2	55.67	7.086mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:54:43 PM
3	55.22	7.028mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 2:58:55 PM

Mean Area 55.37
Mean Conc. 7.047mg/L



Sample

Sample Name: BKG0201-DUP1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

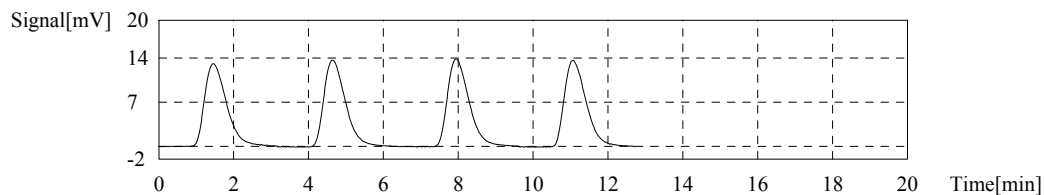
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.096mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	53.63	6.826mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:10:01 PM
2	55.49	7.063mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:14:20 PM
3	55.91	7.116mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:18:27 PM
4	55.85	7.109mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:22:34 PM

Mean Area 55.75
Mean Conc. 7.096mg/L



TOC-Control L Report

RMS
2022_07_11_001.tk

Sample

Sample Name: BKG0201-MS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

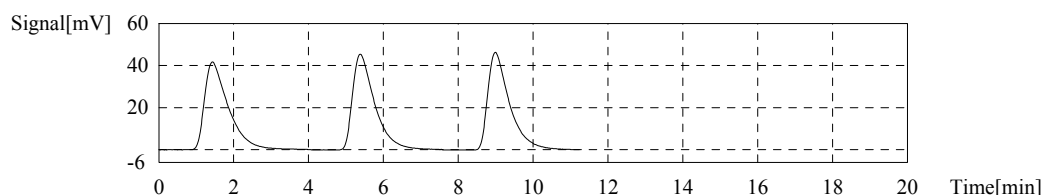
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.95mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	185.8	23.65mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:34:28 PM
2	188.9	24.04mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:39:05 PM
3	189.9	24.17mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:43:44 PM

Mean Area 188.2
Mean Conc. 23.95mg/L



Control Sample

Sample Name: SEQ-CCV5
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 17.94 / Control exceeds range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

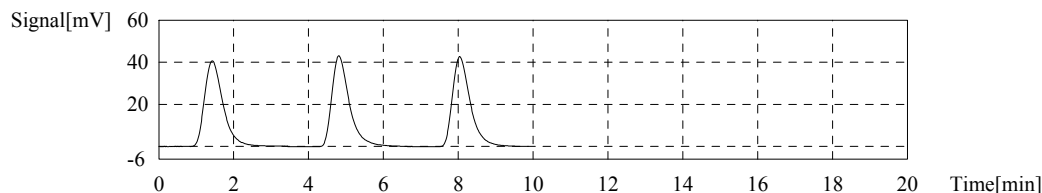
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:17.94ppm

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	140.8	17.78ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:55:20 PM
2	142.6	18.01ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 3:59:32 PM
3	142.8	18.03ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:03:46 PM

Mean Area 142.1
Mean Conc. 17.94ppm



TOC-Control L Report

RMS
2022_07_11_001.thx

Control Sample

Sample Name: SEQ-CCB5
Sample ID:
Method: ICB CCB.tpl
Status: Completed
Chk. Result: Control value: 0.2755 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

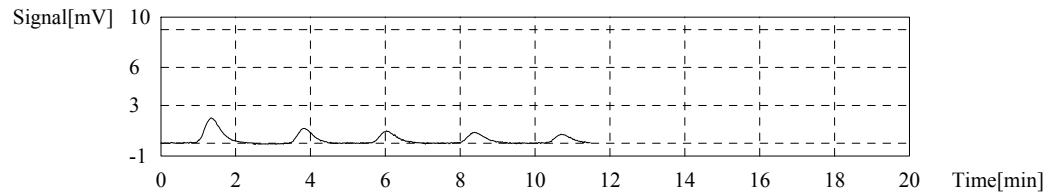
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.2755mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.170	0.6432mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:14:09 PM
2	3.802	0.3418mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:17:22 PM
3	2.918	0.2293mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:21:01 PM
4	3.123	0.2554mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:24:37 PM
5	2.025	0.1156mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/12/2022 4:27:55 PM

Mean Area: 3.281
Mean Conc.: 0.2755mg/L





ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKG0175

Instrument: TOC-LCSH

Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
1	SKG0175-CAL1	ShimadzuData_07182022@0941-002	NA	07/14/22 22:49
10	SKG0175-CAL2	ShimadzuData_07182022@0941-003	NA	07/14/22 23:08
5	SKG0175-CAL3	ShimadzuData_07182022@0941-004	NA	07/14/22 23:37
2	SKG0175-CAL4	ShimadzuData_07182022@0941-005	NA	07/14/22 23:59
1	SKG0175-CAL5	ShimadzuData_07182022@0941-006	NA	07/15/22 00:17
5	SKG0175-CAL6	ShimadzuData_07182022@0941-007	NA	07/15/22 00:38
2	SKG0175-CAL7	ShimadzuData_07182022@0941-008	NA	07/15/22 00:58
1	SKG0175-CAL8	ShimadzuData_07182022@0941-009	NA	07/15/22 01:18
1	SKG0175-ICV1	ShimadzuData_07182022@0941-010	NA	07/15/22 01:40
1	SKG0175-ICB1	ShimadzuData_07182022@0941-011	NA	07/15/22 02:05
1	SKG0175-CCV1	ShimadzuData_07182022@0941-014	NA	07/15/22 03:17
1	SKG0175-CCB1	ShimadzuData_07182022@0941-015	NA	07/15/22 03:38

	Type	Analysis	Sample Name	Sample ID	Origin	Manua	Result	Notes	Status	Date / Time	Vial
1	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.9862mg/L		Completed	7/14/2022 6:32:23 PM	0
2	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.9712mg/L		Completed	7/14/2022 6:56:40 PM	0
3	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.9477mg/L		Completed	7/14/2022 7:16:30 PM	0
4	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.8611mg/L		Completed	7/14/2022 7:36:21 PM	0
5	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.8515mg/L		Completed	7/14/2022 7:59:44 PM	0
6	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.8059mg/L		Completed	7/14/2022 8:19:22 PM	0
7	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.7948mg/L		Completed	7/14/2022 8:38:22 PM	0
8	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.7584mg/L		Completed	7/14/2022 9:01:44 PM	0
9	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.7502mg/L		Completed	7/14/2022 9:24:33 PM	0
10	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.8084mg/L		Completed	7/14/2022 9:47:55 PM	0
11	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.6577mg/L		Completed	7/14/2022 10:10:34 PM	0
12	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.7000mg/L		Completed	7/14/2022 10:33:53 PM	0
13	Standard	NPOC	SEQ-CAL	Curve	NPOC 0.5 - 50 p	1.000			Completed	7/15/2022 1:29:02 AM	0, 1,
14	Control	NPOC	SEQ-ICV1	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:19.41ppm	Control v	Completed	7/15/2022 1:50:47 AM	3
15	Control	NPOC	SEQ-ICB1		ICB CCB.tpl	1.000	NPOC:0.2085mg/L	Control v	Completed	7/15/2022 2:17:16 AM	4
16	Unknown	NPOC	SEQ-IFA1		NPOC 0.5 - 50 p	1.000	NPOC:20.44mg/L		Completed	7/15/2022 2:39:23 AM	9
17	Unknown	NPOC	DI Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.7070mg/L		Completed	7/15/2022 3:05:06 AM	10
18	Control	NPOC	SEQ-CCV1	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:19.22ppm	Control v	Completed	7/15/2022 3:27:39 AM	3
19	Control	NPOC	SEQ-CCB1		ICB CCB.tpl	1.000	NPOC:0.07020mg/L	Control v	Completed	7/15/2022 3:53:02 AM	4

TOC-Control L Report

RMS
2022_07_14_001.thx

Instr.Information

Instrument Options
Catalyst

TOC/ASI/IC Unit/
Regular Sensitivity

Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

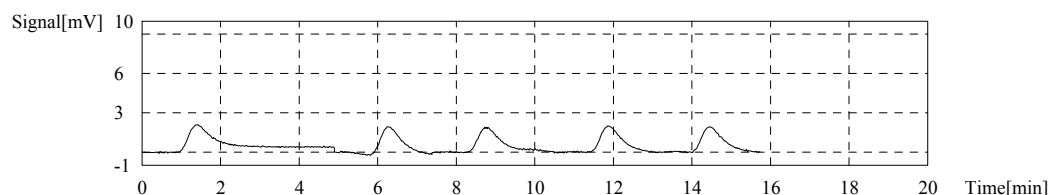
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.9862mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.48	1.461mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 6:17:25 PM
2	7.263	0.9244mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 6:21:00 PM
3	7.953	1.012mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 6:25:10 PM
4	7.832	0.9969mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 6:28:44 PM
5	7.459	0.9494mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 6:32:23 PM

Mean Area 7.748
Mean Conc. 0.9862mg/L



Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.9712mg/L

1. Det

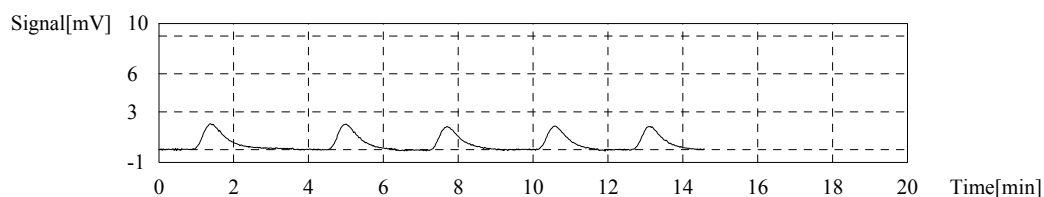
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.061	1.153mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 6:41:45 PM
2	7.854	0.9997mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 6:45:26 PM
3	7.769	0.9888mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 6:49:19 PM
4	6.794	0.8647mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 6:52:51 PM
5	7.269	0.9252mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 6:56:40 PM

TOC-Control L Report

RMS
2022_07_14_001.thx

Mean Area 7.631
Mean Conc. 0.9712mg/L



Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

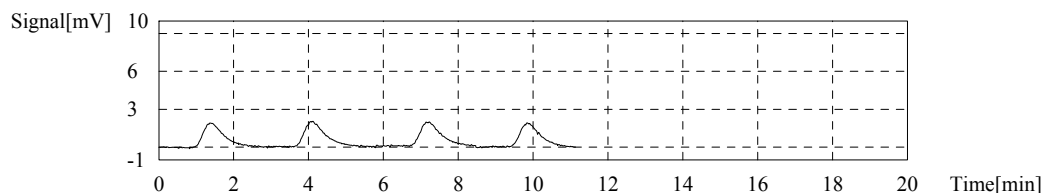
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.9477mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.599	0.9672mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 7:05:06 PM
2	9.087	1.157mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 7:09:12 PM
3	7.384	0.9398mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 7:12:51 PM
4	7.354	0.9360mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 7:16:30 PM

Mean Area 7.446
Mean Conc. 0.9477mg/L



Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8611mg/L

1. Det

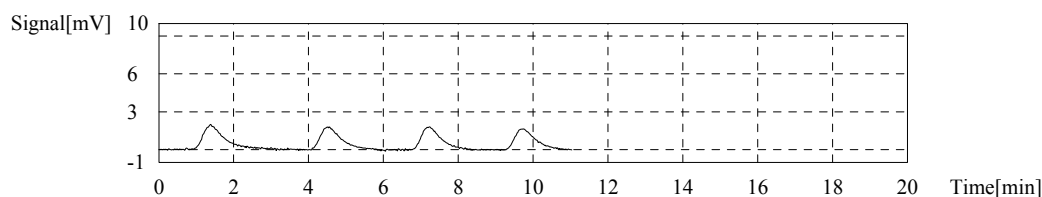
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.192	1.043mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 7:25:24 PM
2	6.890	0.8770mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 7:29:10 PM
3	6.739	0.8577mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 7:32:40 PM
4	6.667	0.8486mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 7:36:21 PM

TOC-Control L Report

RMS
2022_07_14_001.thx

Mean Area 6.765
Mean Conc. 0.8611mg/L



Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

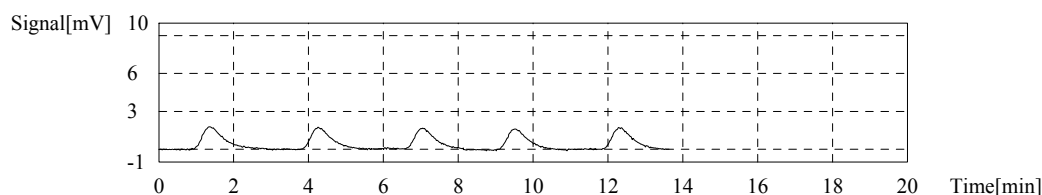
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8515mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.109	0.9048mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 7:45:01 PM
2	6.682	0.8505mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 7:48:48 PM
3	6.072	0.7728mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 7:52:14 PM
4	6.815	0.8674mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 7:56:04 PM
5	6.572	0.8365mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 7:59:44 PM

Mean Area 6.690
Mean Conc. 0.8515mg/L



Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8059mg/L

1. Det

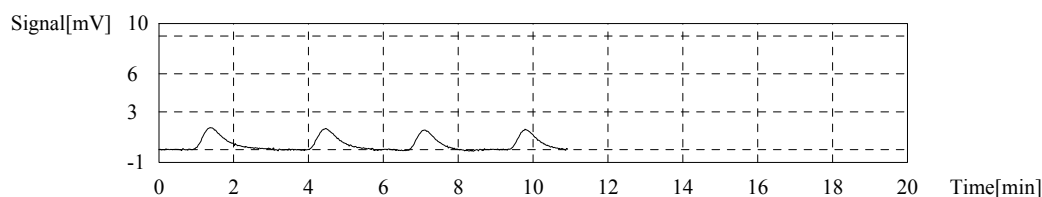
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.704	0.9806mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 8:08:34 PM
2	6.315	0.8038mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 8:12:12 PM
3	6.349	0.8081mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 8:15:54 PM
4	6.331	0.8058mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 8:19:22 PM

TOC-Control L Report

RMS
2022_07_14_001.tk

Mean Area 6.332
Mean Conc. 0.8059mg/L



Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

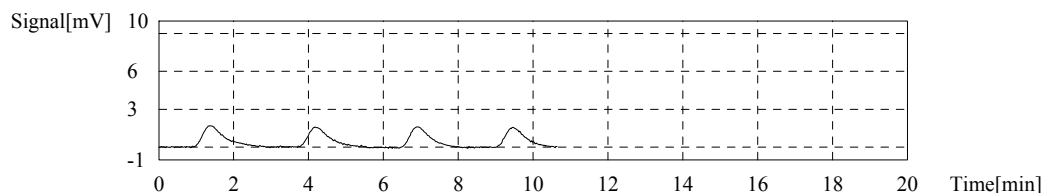
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7948mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.012	0.8925mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 8:27:36 PM
2	6.257	0.7964mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 8:31:18 PM
3	6.224	0.7922mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 8:34:50 PM
4	6.252	0.7958mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 8:38:22 PM

Mean Area 6.244
Mean Conc. 0.7948mg/L



Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7584mg/L

1. Det

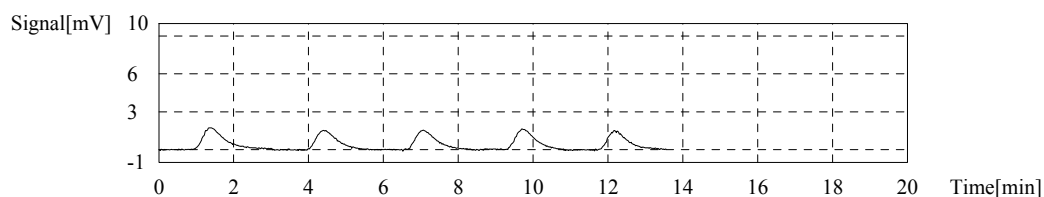
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.257	0.9237mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 8:47:10 PM
2	6.318	0.8042mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 8:50:53 PM
3	5.872	0.7474mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 8:54:32 PM
4	6.154	0.7833mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 8:57:59 PM
5	5.849	0.7445mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 9:01:44 PM

TOC-Control L Report

RMS
2022_07_14_001.tx

Mean Area 5.958
Mean Conc. 0.7584mg/L



Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

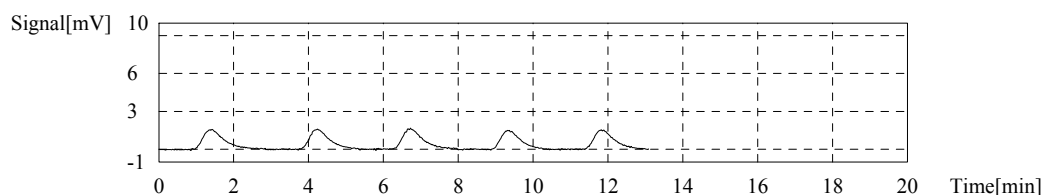
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7502mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.341	0.8071mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 9:10:21 PM
2	5.837	0.7429mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 9:13:49 PM
3	6.034	0.7680mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 9:17:27 PM
4	5.812	0.7398mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 9:20:55 PM
5	6.167	0.7849mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 9:24:33 PM

Mean Area 5.894
Mean Conc. 0.7502mg/L



Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8084mg/L

1. Det

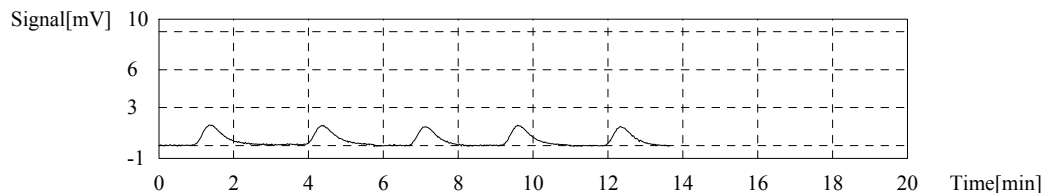
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_14_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.505	0.8280mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 9:33:19 PM
2	6.307	0.8028mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 9:37:03 PM
3	5.537	0.7047mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 9:40:31 PM
4	6.241	0.7944mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 9:44:16 PM
5	5.585	0.7109mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 9:47:55 PM

Mean Area 6.351
Mean Conc. 0.8084mg/L



Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

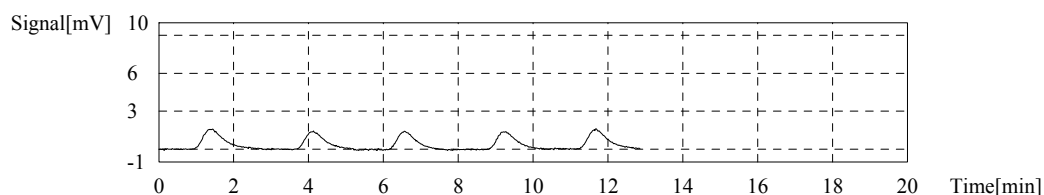
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6577mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.269	0.7979mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 9:56:25 PM
2	4.984	0.6344mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 9:59:51 PM
3	5.595	0.7121mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 10:03:33 PM
4	5.017	0.6386mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 10:06:58 PM
5	5.500	0.7000mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 10:10:34 PM

Mean Area 5.167
Mean Conc. 0.6577mg/L



Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7000mg/L

1. Det

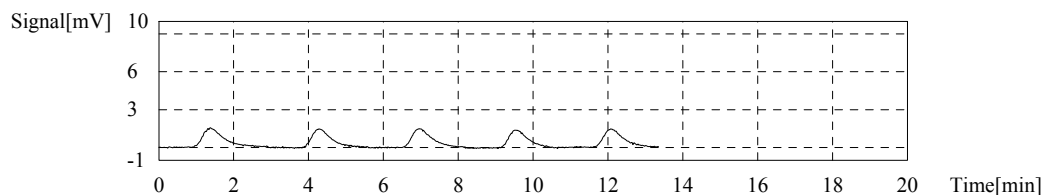
TOC-Control L Report

RMS
2022_07_14_001.thx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.960	0.7586mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 10:19:15 PM
2	5.441	0.6925mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 10:23:10 PM
3	5.581	0.7103mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 10:26:44 PM
4	5.211	0.6633mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 10:30:15 PM
5	5.478	0.6972mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/14/2022 10:33:53 PM

Mean Area 5.500
Mean Conc. 0.7000mg/L



Cal. Curve

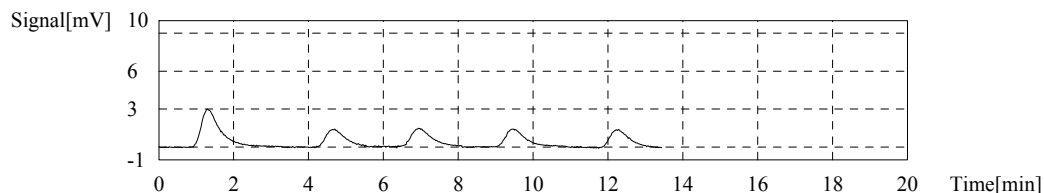
Sample Name: SEQ-CAL
Sample ID: Curve
Cal. Curve: NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal
Status: Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	10.94	100uL	1.000	*****	E	7/14/2022 10:42:57 PM
2	4.836	100uL	1.000	*****	E	7/14/2022 10:46:13 PM
3	5.165	100uL	1.000	*****		7/14/2022 10:49:58 PM
4	5.164	100uL	1.000	*****		7/14/2022 10:53:45 PM
5	5.207	100uL	1.000	*****		7/14/2022 10:57:18 PM

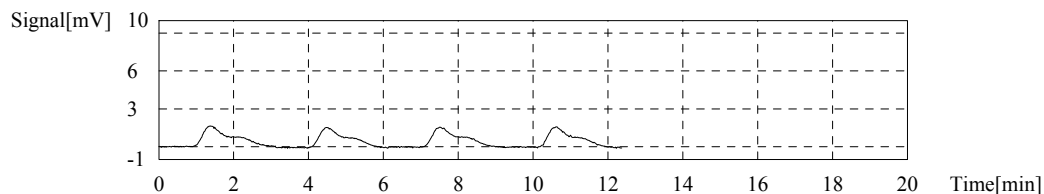
Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 5.179



Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	8.601	100uL	10.00	*****		7/14/2022 11:08:48 PM
2	8.686	100uL	10.00	*****		7/14/2022 11:13:34 PM
3	9.194	100uL	10.00	*****	E	7/14/2022 11:18:31 PM
4	8.439	100uL	10.00	*****		7/14/2022 11:23:29 PM

Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 8.575



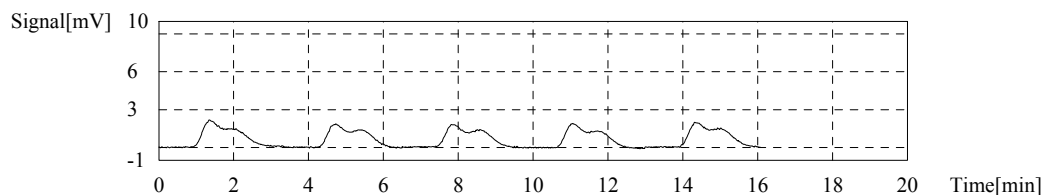
TOC-Control L Report

RMS
2022_07_14_001.thx

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	12.87	100uL	5.000	*****	E	7/14/2022 11:33:10 PM
2	12.27	100uL	5.000	*****		7/14/2022 11:37:19 PM
3	11.56	100uL	5.000	*****	E	7/14/2022 11:41:30 PM
4	12.06	100uL	5.000	*****		7/14/2022 11:45:48 PM
5	12.59	100uL	5.000	*****		7/14/2022 11:49:52 PM

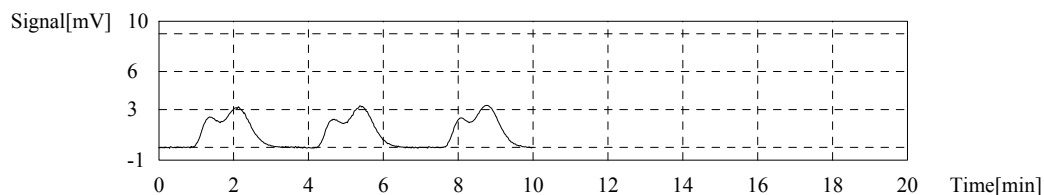
Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 12.31



Conc: 2.500mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	22.00	100uL	2.000	*****		7/14/2022 11:59:40 PM
2	22.29	100uL	2.000	*****		7/15/2022 12:04:04 AM
3	22.18	100uL	2.000	*****		7/15/2022 12:08:21 AM

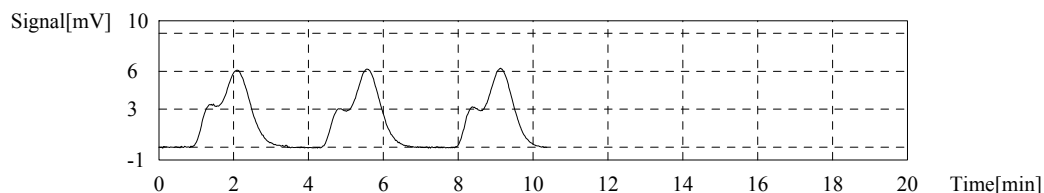
Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 22.16



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	39.28	100uL	1.000	*****		7/15/2022 12:17:42 AM
2	39.01	100uL	1.000	*****		7/15/2022 12:22:16 AM
3	38.34	100uL	1.000	*****		7/15/2022 12:26:43 AM

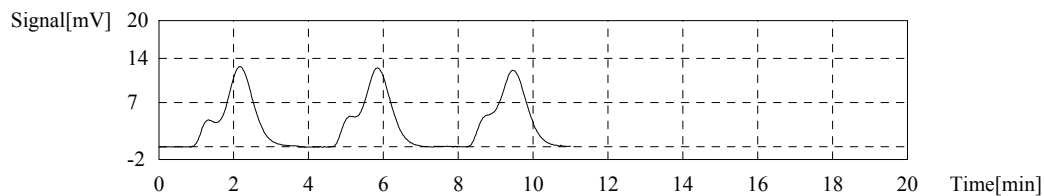
Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 38.88



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	74.29	100uL	5.000	*****		7/15/2022 12:38:57 AM
2	74.75	100uL	5.000	*****		7/15/2022 12:43:33 AM
3	74.32	100uL	5.000	*****		7/15/2022 12:48:11 AM

Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 74.45



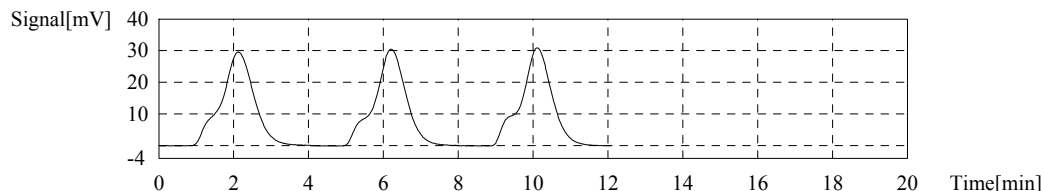
TOC-Control L Report

RMS
2022_07_14_001.thx

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	181.5	100uL	2.000	*****		7/15/2022 12:58:45 AM
2	181.1	100uL	2.000	*****		7/15/2022 1:03:41 AM
3	181.6	100uL	2.000	*****		7/15/2022 1:08:43 AM

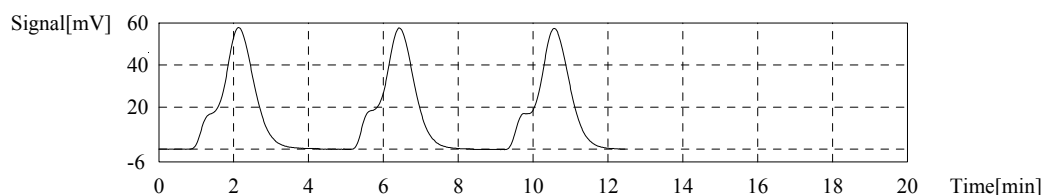
Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 181.4



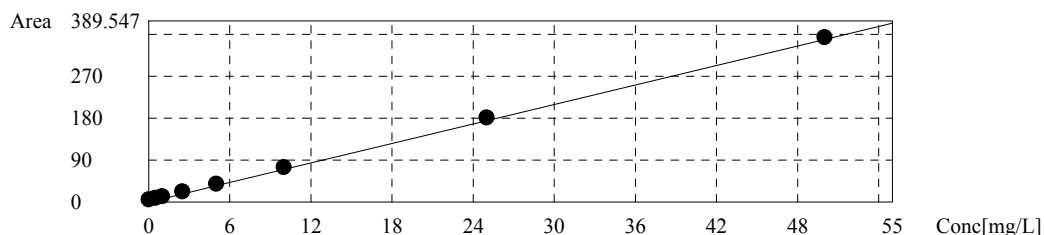
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	354.9	100uL	1.000	*****		7/15/2022 1:18:54 AM
2	354.2	100uL	1.000	*****		7/15/2022 1:24:00 AM
3	353.3	100uL	1.000	*****		7/15/2022 1:29:02 AM

Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 354.1



Slope: 6.996
Intercept 0.000
r² 1.0000
r 1.0000
Zero Shift Yes



Control Sample

Sample Name: SEQ-ICV1
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 19.41 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:19.41ppm

1. Det.

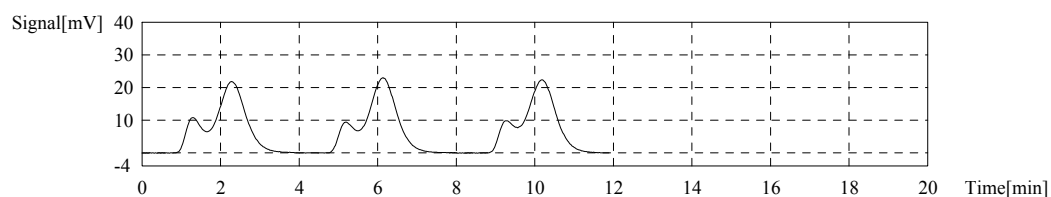
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	140.0	19.31ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 1:40:48 AM
2	141.3	19.49ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 1:45:52 AM
3	140.9	19.44ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 1:50:47 AM

TOC-Control L Report

RMS
2022_07_14_001.thx

Mean Area 140.7
Mean Conc. 19.41ppm



Control Sample

Sample Name: SEQ-ICB1
 Sample ID:
 Method: ICB CCB.tpl
 Status: Completed
 Chk. Result: Control value: 0.2085 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

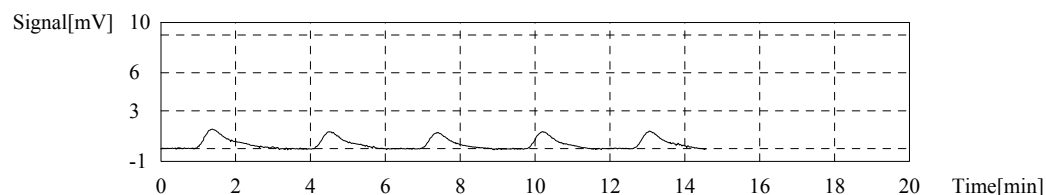
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.2085mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.035	0.3002mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:01:49 AM
2	6.472	0.2197mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:05:41 AM
3	5.263	0.04690mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:09:34 AM
4	6.509	0.2250mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:13:24 AM
5	6.200	0.1808mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:17:16 AM

Mean Area 6.394
Mean Conc. 0.2085mg/L



Sample

Sample Name: SEQ-IFA1
 Sample ID:
 Origin: NPOC 0.5 - 50 ppm.cal
 Status: Completed
 Chk. Result:

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.44mg/L

1. Det

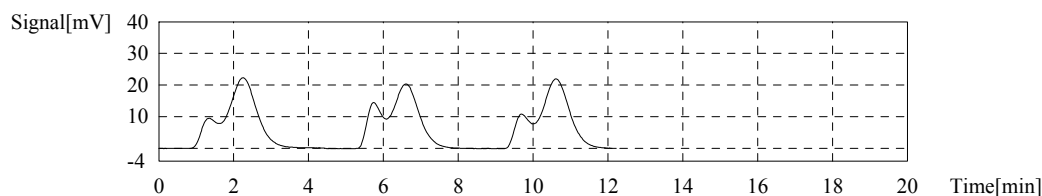
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_14_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	143.8	20.56mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:29:37 AM
2	142.3	20.34mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:34:33 AM
3	142.9	20.43mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:39:23 AM

Mean Area 143.0
Mean Conc. 20.44mg/L



Sample

Sample Name: DI Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

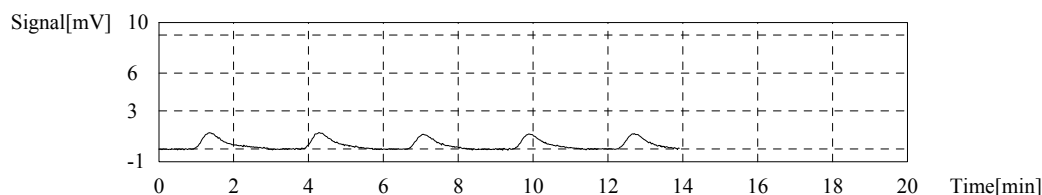
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7070mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.023	0.7180mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:50:11 AM
2	5.335	0.7626mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:53:57 AM
3	4.931	0.7049mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:57:46 AM
4	5.304	0.7582mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:01:32 AM
5	4.883	0.6980mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:05:06 AM

Mean Area 4.946
Mean Conc. 0.7070mg/L



Control Sample

Sample Name: SEQ-CCV1
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 19.22 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:19.22ppm

1. Det.

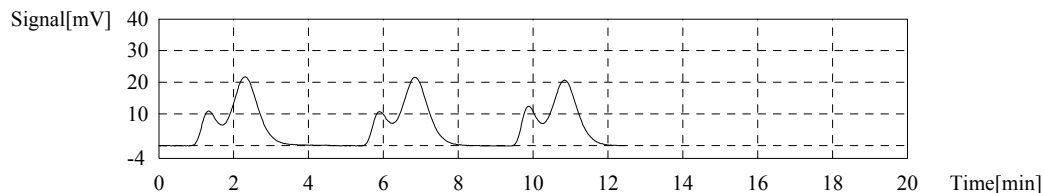
TOC-Control L Report

RMS
2022_07_14_001.tx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	140.5	19.38ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:17:49 AM
2	139.2	19.19ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:22:48 AM
3	138.5	19.09ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:27:39 AM

Mean Area 139.4
Mean Conc. 19.22ppm



Control Sample

Sample Name: SEQ-CCB1
Sample ID:
Method: ICB CCB.tpl
Status: Completed
Chk. Result: Control value: 0.07020 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

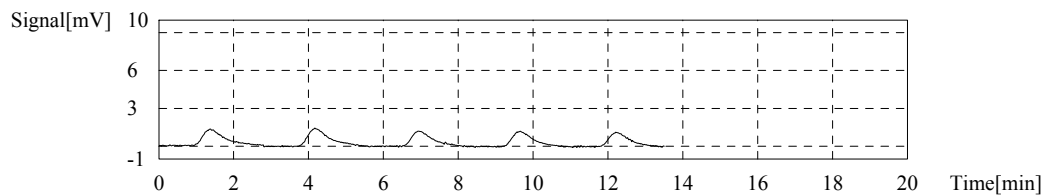
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.07020mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.426	0.07020mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:38:20 AM
2	5.582	0.09250mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:42:06 AM
3	5.270	0.04790mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:45:46 AM
4	5.063	0.01831mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:49:24 AM
5	4.501	-0.06202mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:53:02 AM

Mean Area 5.426
Mean Conc. 0.07020mg/L





ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKG0176

Instrument: TOC-LCSH

Calibration: FG00037

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
1	SKG0176-ICV1	ShimadzuData_07182022@0957-002	NA	07/15/22 12:54
1	SKG0176-ICB1	ShimadzuData_07182022@0957-003	NA	07/15/22 13:18
1	SKG0176-IFA1	ShimadzuData_07182022@0957-004	NA	07/15/22 13:41
1	SKG0176-CCV1	ShimadzuData_07182022@0957-014	NA	07/15/22 17:25
1	SKG0176-CCB1	ShimadzuData_07182022@0957-015	NA	07/15/22 17:52
1	SKG0176-CCV2	ShimadzuData_07182022@0957-026	NA	07/15/22 22:06
1	SKG0176-CCB2	ShimadzuData_07182022@0957-027	NA	07/15/22 22:30
1	SKG0176-CCV3	ShimadzuData_07182022@0957-038	NA	07/16/22 03:17
1	SKG0176-CCB3	ShimadzuData_07182022@0957-039	NA	07/16/22 03:41
1	SKG0176-CCV4	ShimadzuData_07182022@0957-049	NA	07/16/22 07:27
1	SKG0176-CCB4	ShimadzuData_07182022@0957-050	NA	07/16/22 07:50

	Type	Analysis	Sample Name	Sample ID	Origin	Manua	Result	Notes	Status	Date / Time	Vial
1	Unknown	NPOC	Rinse		NPOC 0.5 - 50 p	1.000	NPOC:0.6521mg/L		Completed	7/15/2022 12:43:00 PM	0
2	Control	NPOC	SEQ-ICV1	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:19.15ppm	Control v	Completed	7/15/2022 1:04:16 PM	3
3	Control	NPOC	SEQ-ICB1		ICB CCB.tpl	1.000	NPOC:0.00535mg/L	Control v	Completed	7/15/2022 1:29:47 PM	4
4	Unknown	NPOC	SEQ-IFA1		NPOC 0.5 - 50 p	1.000	NPOC:20.15mg/L		Completed	7/15/2022 1:51:25 PM	9
5	Unknown	NPOC	22F0448-01		NPOC 0.5 - 50 p	1.000	NPOC:13.18mg/L		Completed	7/15/2022 2:10:52 PM	10
6	Unknown	NPOC	22G0035-01		NPOC 0.5 - 50 p	1.000	NPOC:5.136mg/L		Completed	7/15/2022 2:38:00 PM	11
7	Unknown	NPOC	BKG0192-DUP1		NPOC 0.5 - 50 p	1.000	NPOC:5.473mg/L		Completed	7/15/2022 2:57:19 PM	12
8	Unknown	NPOC	BKG0192-MS1		NPOC 0.5 - 50 p	1.000	NPOC:23.78mg/L		Completed	7/15/2022 3:18:53 PM	13
9	Unknown	NPOC	22G0092-01		NPOC 0.5 - 50 p	1.000	NPOC:5.387mg/L		Completed	7/15/2022 3:42:09 PM	14
10	Unknown	NPOC	22G0109-01		NPOC 0.5 - 50 p	1.000	NPOC:4.938mg/L		Completed	7/15/2022 4:08:15 PM	15
11	Unknown	NPOC	22G0109-03		NPOC 0.5 - 50 p	1.000	NPOC:4.928mg/L		Completed	7/15/2022 4:35:22 PM	16
12	Unknown	NPOC	22G0129-01		NPOC 0.5 - 50 p	1.000	NPOC:7.795mg/L		Completed	7/15/2022 4:55:06 PM	17
13	Unknown	NPOC	BKG0201-MRL1		NPOC 0.5 - 50 p	1.000	NPOC:0.6822mg/L		Completed	7/15/2022 5:13:11 PM	18
14	Control	NPOC	SEQ-CCV1	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:18.73ppm	Control v	Completed	7/15/2022 5:35:01 PM	3
15	Control	NPOC	SEQ-CCB1		ICB CCB.tpl	1.000	NPOC:-0.1602mg/L	Control v	Completed	7/15/2022 5:59:39 PM	4
16	Unknown	NPOC	BKG0201-BLK1		NPOC 0.5 - 50 p	1.000	NPOC:1.030mg/L		Completed	7/15/2022 6:18:28 PM	19
17	Unknown	NPOC	BKG0201-BS1		NPOC 0.5 - 50 p	1.000	NPOC:19.55mg/L		Completed	7/15/2022 6:40:27 PM	20
18	Unknown	NPOC	22G0129-01		NPOC 0.5 - 50 p	1.000	NPOC:7.880mg/L		Completed	7/15/2022 7:04:08 PM	21
19	Unknown	NPOC	BKG0201-DUP1		NPOC 0.5 - 50 p	1.000	NPOC:7.836mg/L		Completed	7/15/2022 7:23:29 PM	22
20	Unknown	NPOC	BKG0201-MS1		NPOC 0.5 - 50 p	1.000	NPOC:27.17mg/L		Completed	7/15/2022 7:45:10 PM	23
21	Unknown	NPOC	BKG0192-MRL1		NPOC 0.5 - 50 p	1.000	NPOC:0.8261mg/L		Completed	7/15/2022 8:10:56 PM	24
22	Unknown	NPOC	BKG0192-BLK1		NPOC 0.5 - 50 p	1.000	NPOC:0.5613mg/L		Completed	7/15/2022 8:29:03 PM	25
23	Unknown	NPOC	BKG0192-BS1		NPOC 0.5 - 50 p	1.000	NPOC:19.46mg/L		Completed	7/15/2022 8:51:03 PM	26
24	Unknown	NPOC	BKG0192-DUP2		NPOC 0.5 - 50 p	1.000	NPOC:5.253mg/L		Completed	7/15/2022 9:27:24 PM	27
25	Unknown	NPOC	BKG0320-MRL1		NPOC 0.5 - 50 p	1.000	NPOC:0.9748mg/L		Completed	7/15/2022 9:54:17 PM	28
26	Control	NPOC	SEQ-CCV2	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:18.79ppm	Control v	Completed	7/15/2022 10:16:28 PM	5
27	Control	NPOC	SEQ-CCB2		ICB CCB.tpl	1.000	NPOC:-0.2036mg/L	Control v	Completed	7/15/2022 10:37:39 PM	6
28	Unknown	NPOC	BKG0320-BLK1		NPOC 0.5 - 50 p	1.000	NPOC:0.3878mg/L		Completed	7/15/2022 11:03:20 PM	29
29	Unknown	NPOC	BKG0320-BS1		NPOC 0.5 - 50 p	1.000	NPOC:19.30mg/L		Completed	7/15/2022 11:25:01 PM	30
30	Unknown	NPOC	22G0002-01		NPOC 0.5 - 50 p	1.000	NPOC:1.891mg/L		Completed	7/15/2022 11:56:22 PM	31
31	Unknown	NPOC	22G0002-02		NPOC 0.5 - 50 p	1.000	NPOC:3.935mg/L		Completed	7/16/2022 12:32:45 AM	32
32	Unknown	NPOC	22G0002-03		NPOC 0.5 - 50 p	1.000	NPOC:2.894mg/L		Completed	7/16/2022 1:06:45 AM	33
33	Unknown	NPOC	22G0002-04		NPOC 0.5 - 50 p	1.000	NPOC:0.4356mg/L		Completed	7/16/2022 1:32:15 AM	34
34	Unknown	NPOC	22G0002-05		NPOC 0.5 - 50 p	1.000	NPOC:0.4558mg/L		Completed	7/16/2022 1:57:28 AM	35
35	Unknown	NPOC	22G0038-01		NPOC 0.5 - 50 p	1.000	NPOC:17.90mg/L		Completed	7/16/2022 2:17:32 AM	36
36	Unknown	NPOC	22G0038-02		NPOC 0.5 - 50 p	1.000	NPOC:16.77mg/L		Completed	7/16/2022 2:41:46 AM	37
37	Unknown	NPOC	22G0143-03		NPOC 0.5 - 50 p	1.000	NPOC:5.468mg/L		Completed	7/16/2022 3:05:03 AM	38
38	Control	NPOC	SEQ-CCV3	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:18.98ppm	Control v	Completed	7/16/2022 3:27:02 AM	5
39	Control	NPOC	SEQ-CCB3		ICB CCB.tpl	1.000	NPOC:-0.1953mg/L	Control v	Completed	7/16/2022 3:48:06 AM	6
40	Unknown	NPOC	22G0222-01		NPOC 0.5 - 50 p	1.000	NPOC:1.410mg/L		Completed	7/16/2022 4:13:51 AM	39

	Type	Analysis	Sample Name	Sample ID	Origin	Manua	Result	Notes	Status	Date / Time	Vial
41	Unknown	NPOC	22G0222-03		NPOC 0.5 - 50 p	1.000	NPOC:1.540mg/L		Completed	7/16/2022 4:35:55 AM	40
42	Unknown	NPOC	22G0222-05		NPOC 0.5 - 50 p	1.000	NPOC:1.690mg/L		Completed	7/16/2022 4:58:00 AM	41
43	Unknown	NPOC	22G0222-07		NPOC 0.5 - 50 p	1.000	NPOC:1.079mg/L		Completed	7/16/2022 5:20:09 AM	42
44	Unknown	NPOC	22G0222-09		NPOC 0.5 - 50 p	1.000	NPOC:1.177mg/L		Completed	7/16/2022 5:45:55 AM	43
45	Unknown	NPOC	22G0224-01		NPOC 0.5 - 50 p	1.000	NPOC:5.676mg/L		Completed	7/16/2022 6:04:59 AM	44
46	Unknown	NPOC	BKG0320-DUP1		NPOC 0.5 - 50 p	1.000	NPOC:5.584mg/L		Completed	7/16/2022 6:28:15 AM	45
47	Unknown	NPOC	BKG0320-MS1		NPOC 0.5 - 50 p	1.000	NPOC:25.47mg/L		Completed	7/16/2022 6:49:46 AM	46
48	Unknown	NPOC	BKG0201-BLK2		NPOC 0.5 - 50 p	1.000	NPOC:0.5489mg/L		Completed	7/16/2022 7:15:14 AM	47
49	Control	NPOC	SEQ-CCV4	CVS 20	CVS 20 ppm.tpl	1.000	NPOC:18.97ppm	Control v	Completed	7/16/2022 7:36:48 AM	7
50	Control	NPOC	SEQ-CCB4		ICB CCB.tpl	1.000	NPOC:-0.2848mg/L	Control v	Completed	7/16/2022 8:01:24 AM	8

TOC-Control L Report

RMS
2022_07_15_001.thx

Instr.Information

Instrument Options
Catalyst

TOC/ASI/IC Unit/
Regular Sensitivity

Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

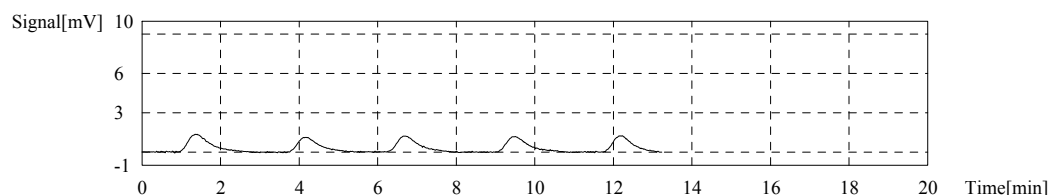
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6521mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.433	0.7766mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 12:28:28 PM
2	4.410	0.6304mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 12:31:59 PM
3	4.698	0.6715mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 12:35:45 PM
4	5.012	0.7164mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 12:39:36 PM
5	4.577	0.6543mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 12:43:00 PM

Mean Area 4.562
Mean Conc. 0.6521mg/L



Control Sample

Sample Name: SEQ-ICV1
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 19.15 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:19.15ppm

1. Det.

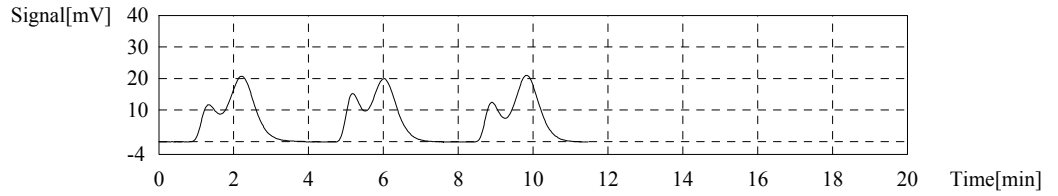
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	138.4	19.08ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 12:54:42 PM
2	139.5	19.24ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 12:59:24 PM
3	138.9	19.15ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 1:04:16 PM

TOC-Control L Report

RMS
2022_07_15_001.tk

Mean Area 138.9
Mean Conc. 19.15ppm



Control Sample

Sample Name: SEQ-ICB1
 Sample ID:
 Method: ICB CCB.tpl
 Status: Completed
 Chk. Result: Control value: 0.00535 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

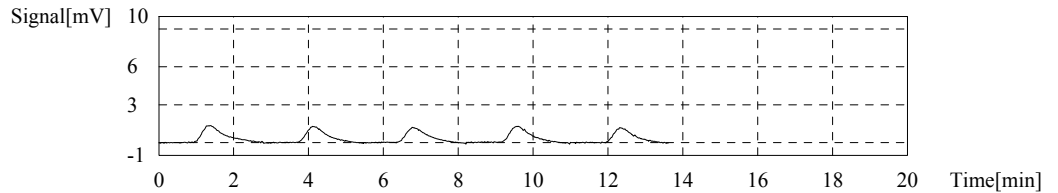
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.00535mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.810	0.1251mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 1:14:57 PM
2	5.022	0.01245mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 1:18:37 PM
3	5.055	0.01717mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 1:22:23 PM
4	5.718	0.1119mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 1:26:10 PM
5	4.840	-0.01357mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 1:29:47 PM

Mean Area 4.972
Mean Conc. 0.00535mg/L



Sample

Sample Name: SEQ-IFA1
 Sample ID:
 Origin: NPOC 0.5 - 50 ppm.cal
 Status: Completed
 Chk. Result:

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.15mg/L

1. Det

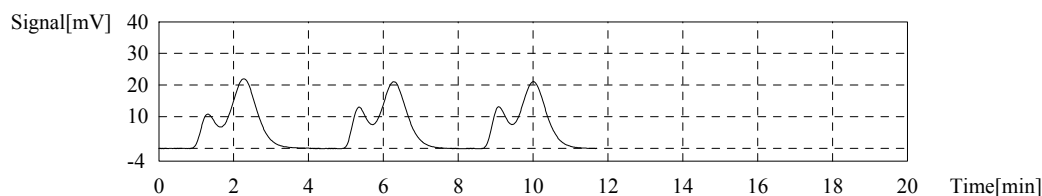
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_15_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	141.3	20.20mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 1:41:46 PM
2	140.5	20.08mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 1:46:30 PM
3	141.0	20.16mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 1:51:25 PM

Mean Area 140.9
Mean Conc. 20.15mg/L



Sample

Sample Name: 22F0448-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

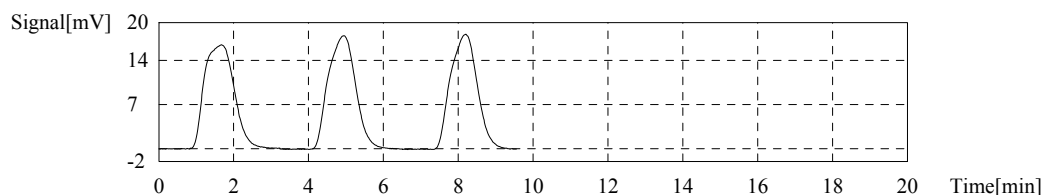
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:13.18mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.93	13.14mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:02:33 PM
2	92.95	13.29mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:06:49 PM
3	91.81	13.12mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:10:52 PM

Mean Area 92.23
Mean Conc. 13.18mg/L



Sample

Sample Name: 22G0035-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.136mg/L

1. Det

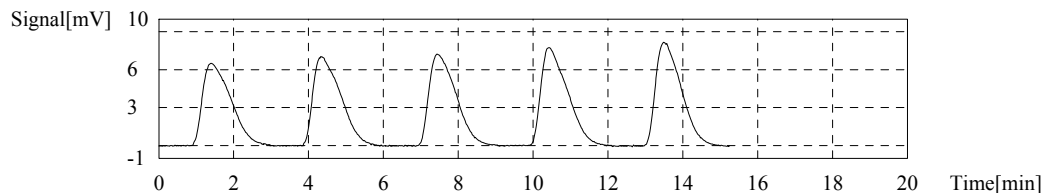
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_15_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.58	4.943mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:21:44 PM
2	36.51	5.219mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:25:49 PM
3	36.70	5.246mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:29:49 PM
4	38.70	5.532mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:33:52 PM
5	39.79	5.688mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:38:00 PM

Mean Area 35.93
Mean Conc. 5.136mg/L



Sample

Sample Name: BKG0192-DUP1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

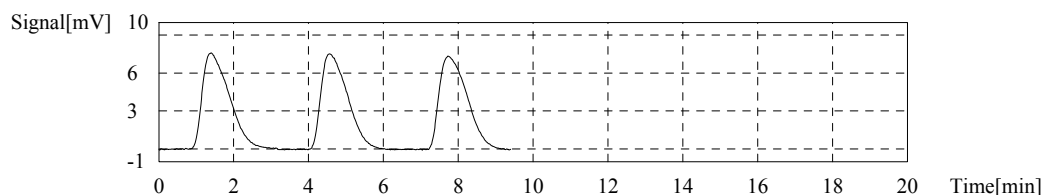
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.473mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.34	5.480mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:49:05 PM
2	37.75	5.396mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:53:14 PM
3	38.77	5.542mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 2:57:19 PM

Mean Area 38.29
Mean Conc. 5.473mg/L



Sample

Sample Name: BKG0192-MS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.78mg/L

1. Det

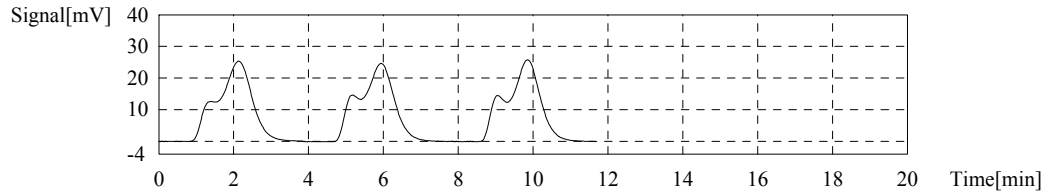
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_15_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	165.5	23.66mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:09:03 PM
2	166.3	23.77mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:13:57 PM
3	167.2	23.90mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:18:53 PM

Mean Area 166.3
Mean Conc. 23.78mg/L



Sample

Sample Name: 22G0092-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

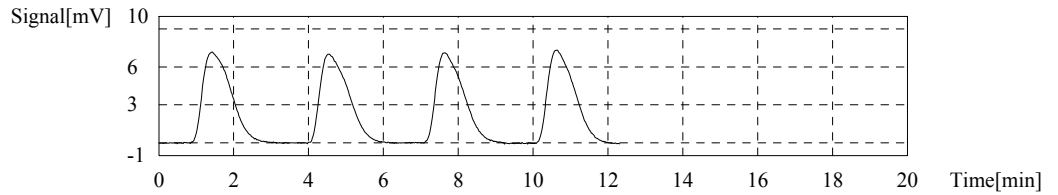
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.387mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.16	5.455mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:29:59 PM
2	37.17	5.313mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:34:03 PM
3	36.15	5.167mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:38:02 PM
4	37.72	5.392mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:42:09 PM

Mean Area 37.68
Mean Conc. 5.387mg/L



Sample

Sample Name: 22G0109-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.938mg/L

1. Det

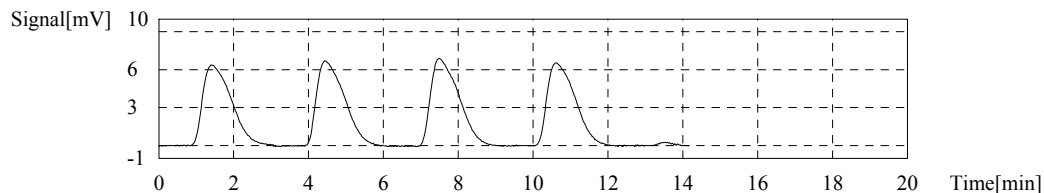
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_15_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	33.88	4.843mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:53:06 PM
2	35.26	5.040mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 3:57:07 PM
3	36.63	5.236mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 4:01:18 PM
4	34.49	4.930mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 4:05:19 PM
5	0.7884	0.1127mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 4:08:15 PM

Mean Area 34.54
Mean Conc. 4.938mg/L



Sample

Sample Name: 22G0109-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

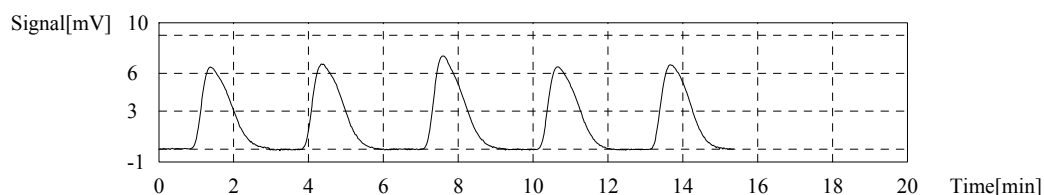
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.928mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	33.92	4.849mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 4:18:55 PM
2	36.99	5.287mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 4:23:14 PM
3	38.65	5.525mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 4:27:17 PM
4	34.77	4.970mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 4:31:17 PM
5	34.73	4.964mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 4:35:22 PM

Mean Area 34.47
Mean Conc. 4.928mg/L



Sample

Sample Name: 22G0129-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.795mg/L

1. Det

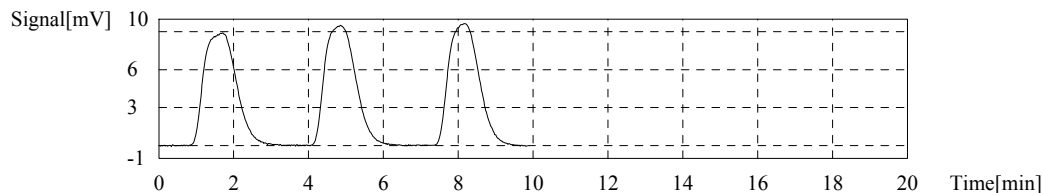
TOC-Control L Report

RMS
2022_07_15_001.thx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	53.75	7.683mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 4:46:31 PM
2	54.79	7.832mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 4:50:47 PM
3	55.06	7.870mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 4:55:06 PM

Mean Area 54.53
Mean Conc. 7.795mg/L



Sample

Sample Name: BKG0201-MRL1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

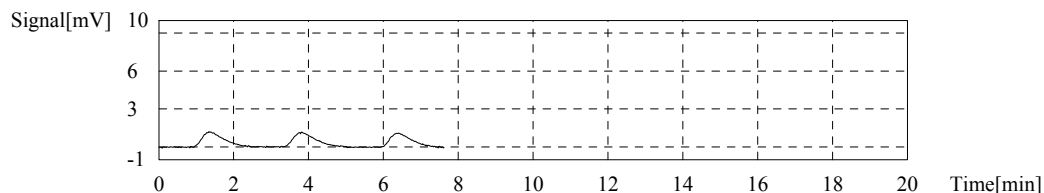
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6822mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.806	0.6870mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 5:05:26 PM
2	4.679	0.6688mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 5:09:22 PM
3	4.832	0.6907mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 5:13:11 PM

Mean Area 4.772
Mean Conc. 0.6822mg/L



Control Sample

Sample Name: SEQ-CCV1
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 18.73 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:18.73ppm

1. Det.

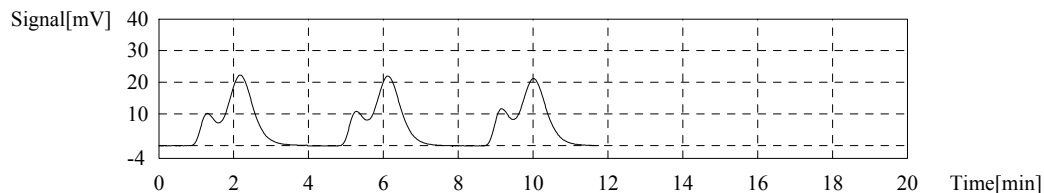
TOC-Control L Report

RMS
2022_07_15_001.thx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	136.0	18.73ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 5:25:12 PM
2	136.1	18.75ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 5:30:05 PM
3	135.8	18.71ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 5:35:01 PM

Mean Area 136.0
Mean Conc. 18.73ppm



Control Sample

Sample Name: SEQ-CCB1
Sample ID:
Method: ICB CCB.tpl
Status: Completed
Chk. Result: Control value: -0.1602 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

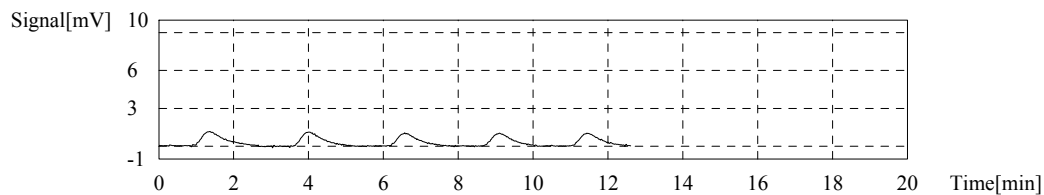
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:-0.1602mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.604	-0.04730mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 5:45:35 PM
2	4.518	-0.05959mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 5:49:09 PM
3	3.891	-0.1492mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 5:52:40 PM
4	3.713	-0.1747mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 5:56:01 PM
5	3.839	-0.1567mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 5:59:39 PM

Mean Area 3.814
Mean Conc. -0.1602mg/L



Sample

Sample Name: BKG0201-BLK1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result:

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.030mg/L

TOC-Control L Report

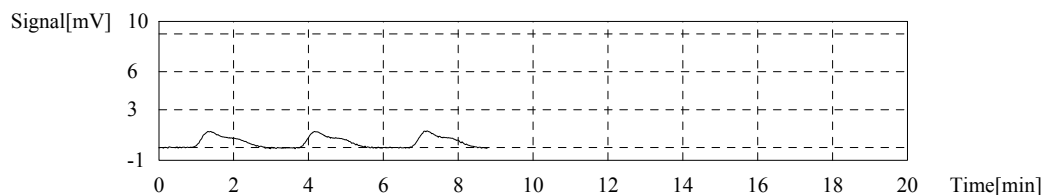
RMS
2022_07_15_001.thx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.087	1.013mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 6:10:32 PM
2	7.303	1.044mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 6:14:30 PM
3	7.234	1.034mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 6:18:28 PM

Mean Area 7.208
Mean Conc. 1.030mg/L



Sample

Sample Name: BKG0201-BS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

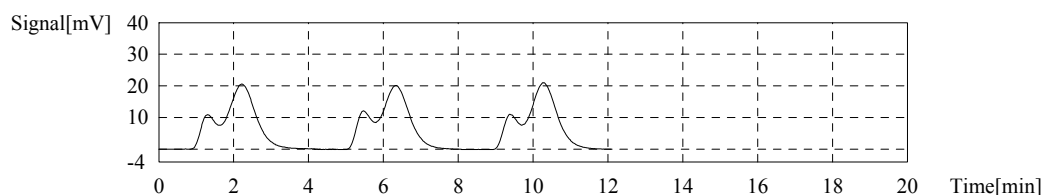
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.55mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	136.7	19.54mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 6:30:32 PM
2	136.6	19.53mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 6:35:27 PM
3	136.9	19.57mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 6:40:27 PM

Mean Area 136.7
Mean Conc. 19.55mg/L



Sample

Sample Name: 22G0129-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.880mg/L

1. Det

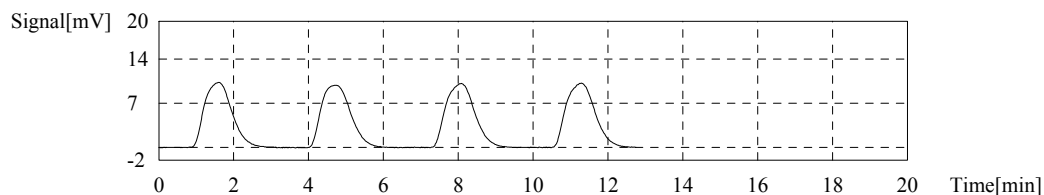
TOC-Control L Report

RMS
2022_07_15_001.tx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	53.18	7.602mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 6:51:29 PM
2	54.72	7.822mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 6:55:49 PM
3	55.57	7.943mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 7:00:02 PM
4	55.09	7.875mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 7:04:08 PM

Mean Area 55.13
Mean Conc. 7.880mg/L



Sample

Sample Name: BKG0201-DUP1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

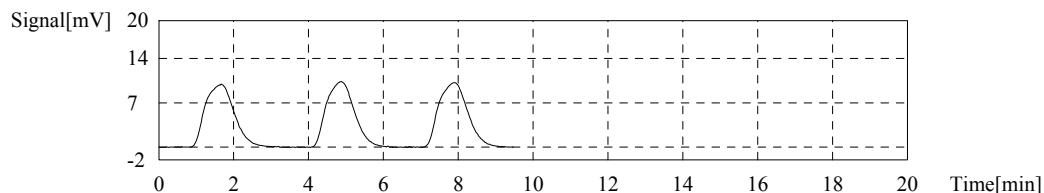
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.836mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	54.16	7.742mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 7:15:15 PM
2	54.64	7.810mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 7:19:15 PM
3	55.65	7.955mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 7:23:29 PM

Mean Area 54.82
Mean Conc. 7.836mg/L



Sample

Sample Name: BKG0201-MS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.17mg/L

1. Det

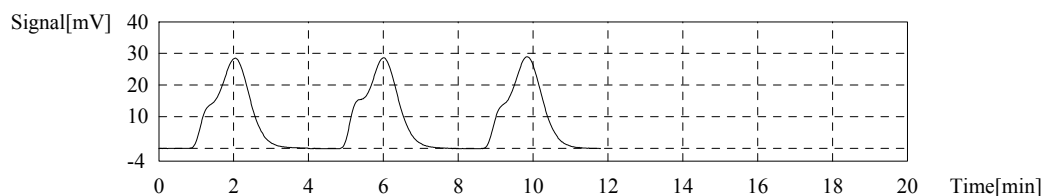
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_15_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	188.7	26.97mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 7:35:22 PM
2	190.5	27.23mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 7:40:11 PM
3	191.0	27.30mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 7:45:10 PM

Mean Area 190.1
Mean Conc. 27.17mg/L



Sample

Sample Name: BKG0192-MRL1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

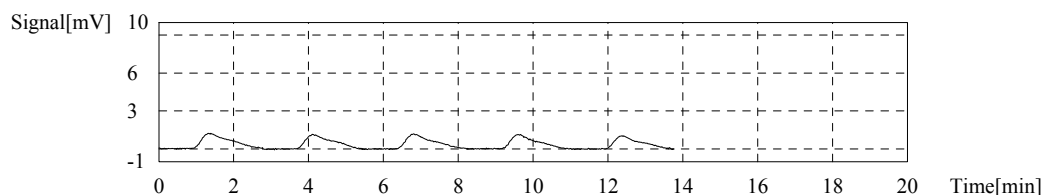
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8261mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.943	0.8495mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 7:55:50 PM
2	6.253	0.8938mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 7:59:32 PM
3	5.844	0.8354mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 8:03:26 PM
4	5.551	0.7935mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 8:07:12 PM
5	5.407	0.7729mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 8:10:56 PM

Mean Area 5.779
Mean Conc. 0.8261mg/L



Sample

Sample Name: BKG0192-BLK1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5613mg/L

1. Det

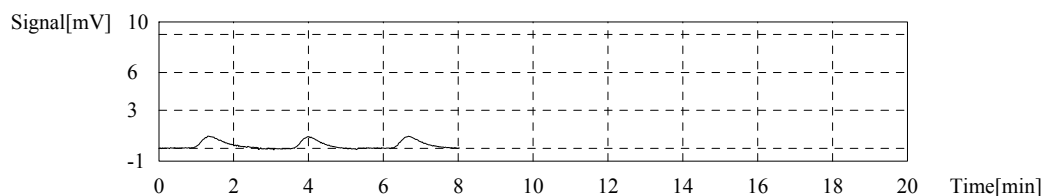
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_15_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.947	0.5642mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 8:21:23 PM
2	4.009	0.5731mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 8:25:13 PM
3	3.824	0.5466mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 8:29:03 PM

Mean Area 3.927
Mean Conc. 0.5613mg/L



Sample

Sample Name: BKG0192-BS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

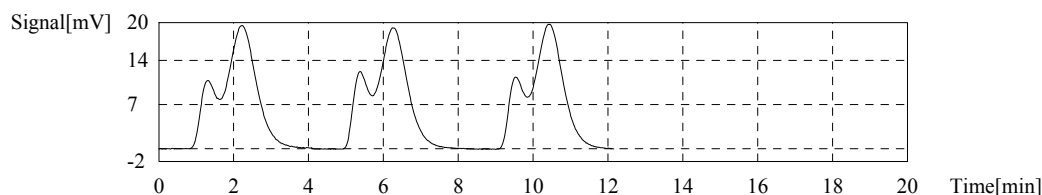
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.46mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	135.6	19.38mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 8:40:57 PM
2	136.3	19.48mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 8:46:08 PM
3	136.5	19.51mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 8:51:03 PM

Mean Area 136.1
Mean Conc. 19.46mg/L



Sample

Sample Name: BKG0192-DUP2
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.253mg/L

1. Det

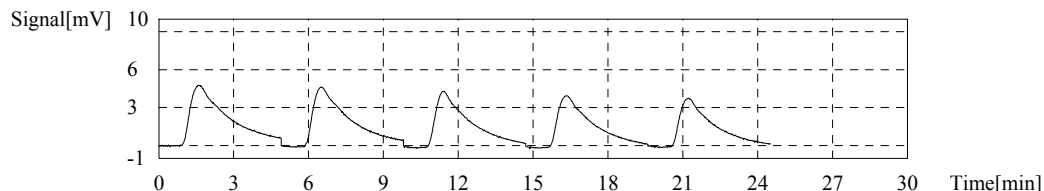
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_15_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	43.03	6.151mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 9:03:50 PM
2	42.05	6.011mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 9:09:44 PM
3	38.58	5.515mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 9:15:37 PM
4	37.28	5.329mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 9:21:30 PM
5	34.38	4.914mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 9:27:24 PM

Mean Area 36.75
Mean Conc. 5.253mg/L



Sample

Sample Name: BKG0320-MRL1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

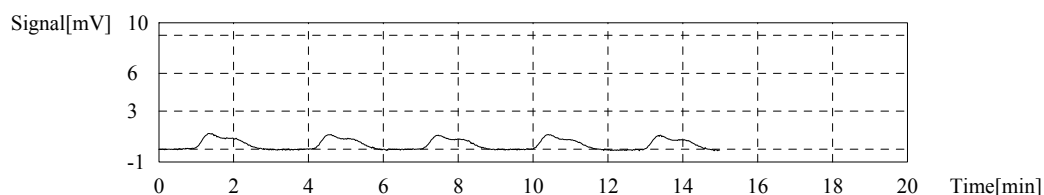
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.9748mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.265	1.181mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 9:38:29 PM
2	7.237	1.034mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 9:42:24 PM
3	6.898	0.9860mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 9:46:21 PM
4	6.638	0.9489mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 9:50:19 PM
5	6.922	0.9895mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 9:54:17 PM

Mean Area 6.819
Mean Conc. 0.9748mg/L



Control Sample

Sample Name: SEQ-CCV2
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 18.79 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:18.79ppm

TOC-Control L Report

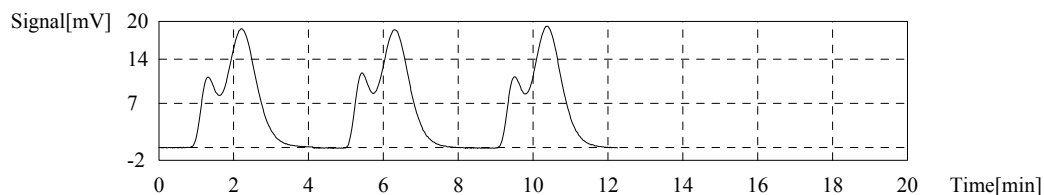
RMS
2022_07_15_001.thx

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	136.4	18.79ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 10:06:20 PM
2	136.1	18.75ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 10:11:24 PM
3	136.6	18.82ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 10:16:28 PM

Mean Area 136.4
Mean Conc. 18.79ppm



Control Sample

Sample Name: SEQ-CCB2
Sample ID: ICB CCB.tpl
Method: Completed
Status: Completed
Chk. Result: Control value: -0.2036 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

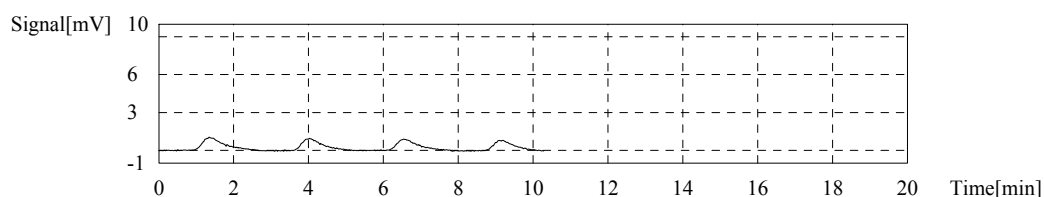
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:-0.2036mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.341	-0.08489mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 10:27:01 PM
2	3.568	-0.1954mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 10:30:34 PM
3	3.567	-0.1955mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 10:34:10 PM
4	3.396	-0.2200mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 10:37:39 PM

Mean Area 3.510
Mean Conc. -0.2036mg/L



Sample

Sample Name: BKG0320-BLK1
Sample ID: NPOC 0.5 - 50 ppm.cal
Origin: Completed
Status: Completed
Chk. Result: Completed

TOC-Control L Report

RMS
2022_07_15_001.thx

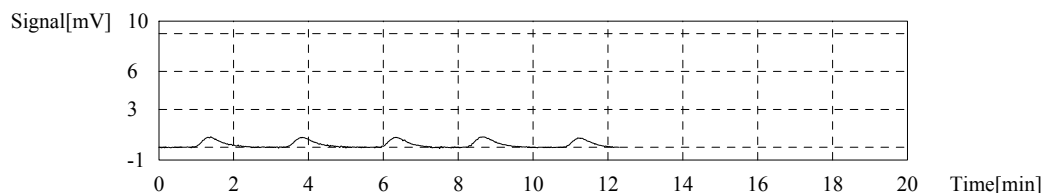
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3878mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.777	0.3970mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 10:48:16 PM
2	3.169	0.4530mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 10:52:06 PM
3	2.731	0.3904mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 10:55:40 PM
4	3.626	0.5183mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 10:59:45 PM
5	2.630	0.3759mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 11:03:20 PM

Mean Area 2.713
Mean Conc. 0.3878mg/L



Sample

Sample Name: BKG0320-BS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

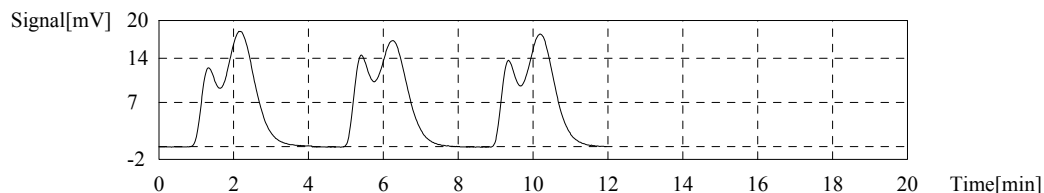
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.30mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	134.9	19.28mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 11:15:09 PM
2	135.1	19.31mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 11:20:06 PM
3	135.1	19.31mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 11:25:01 PM

Mean Area 135.0
Mean Conc. 19.30mg/L



Sample

Sample Name: 22G0002-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

TOC-Control L Report

RMS
2022_07_15_001.thx

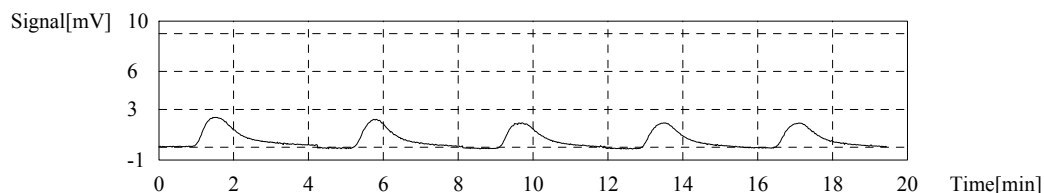
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.891mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.83	2.120mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 11:37:10 PM
2	13.63	1.948mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 11:42:03 PM
3	13.31	1.903mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 11:46:51 PM
4	12.28	1.755mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 11:51:27 PM
5	12.74	1.821mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/15/2022 11:56:22 PM

Mean Area 13.23
Mean Conc. 1.891mg/L



Sample

Sample Name: 22G0002-02
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

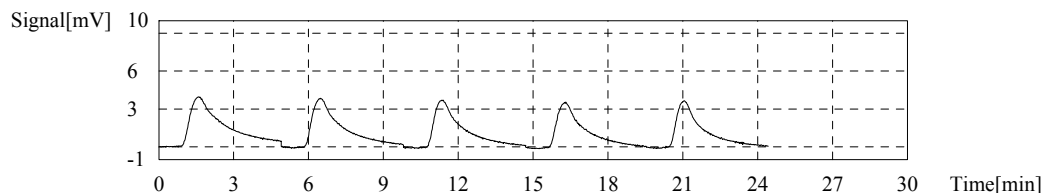
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.935mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	32.27	4.613mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 12:09:11 AM
2	30.57	4.370mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 12:15:05 AM
3	28.33	4.050mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 12:21:01 AM
4	27.52	3.934mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 12:26:50 AM
5	26.74	3.822mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 12:32:45 AM

Mean Area 27.53
Mean Conc. 3.935mg/L



Sample

TOC-Control L Report

RMS
2022_07_15_001.thx

Sample Name: 22G0002-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

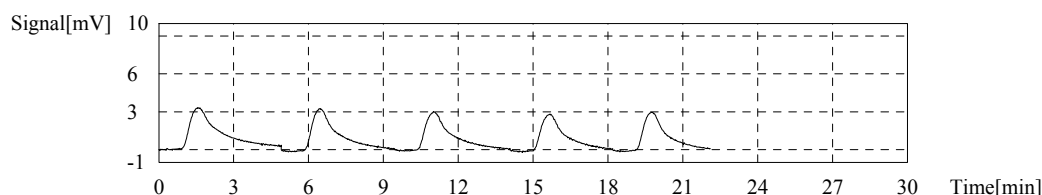
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.894mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	26.23	3.749mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 12:45:33 AM
2	23.08	3.299mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 12:51:06 AM
3	22.00	3.145mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 12:56:44 AM
4	19.50	2.787mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 1:01:51 AM
5	19.24	2.750mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 1:06:45 AM

Mean Area: 20.25
Mean Conc.: 2.894mg/L



Sample

Sample Name: 22G0002-04
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

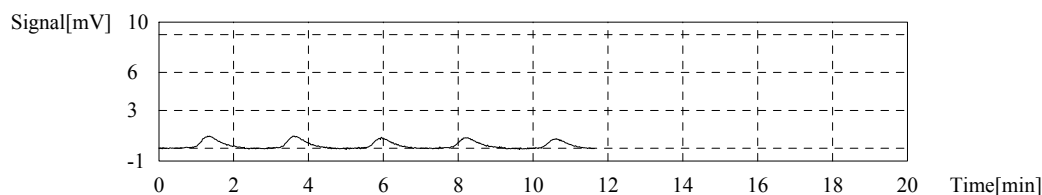
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4356mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.325	0.4753mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 1:16:58 AM
2	3.364	0.4809mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 1:20:46 AM
3	3.120	0.4460mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 1:24:34 AM
4	3.067	0.4384mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 1:28:28 AM
5	2.955	0.4224mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 1:32:15 AM

Mean Area: 3.047
Mean Conc.: 0.4356mg/L



TOC-Control L Report

RMS
2022_07_15_001.thx

Sample

Sample Name: 22G0002-05
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

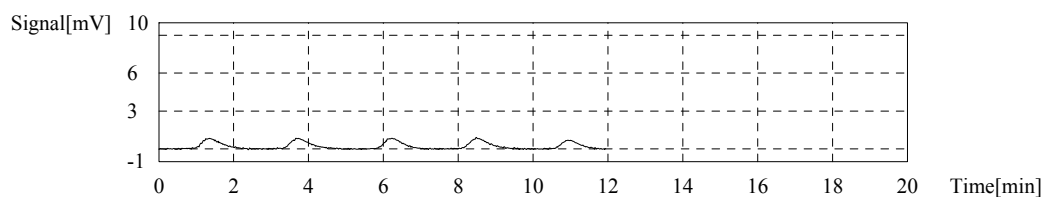
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4558mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.254	0.4651mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 1:42:21 AM
2	3.243	0.4636mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 1:46:19 AM
3	3.068	0.4386mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 1:49:53 AM
4	3.471	0.4962mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 1:53:51 AM
5	2.603	0.3721mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 1:57:28 AM

Mean Area 3.188
Mean Conc. 0.4558mg/L



Sample

Sample Name: 22G0038-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

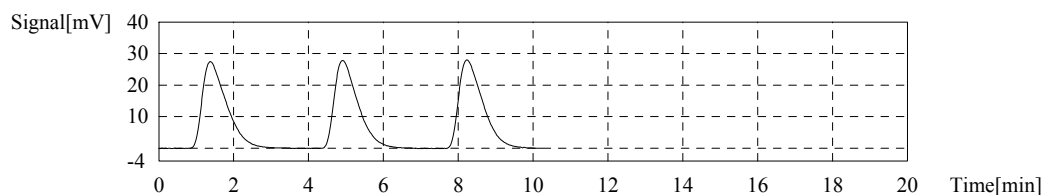
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.90mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	125.2	17.90mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 2:08:44 AM
2	124.0	17.73mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 2:13:08 AM
3	126.5	18.08mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 2:17:32 AM

Mean Area 125.2
Mean Conc. 17.90mg/L



TOC-Control L Report

RMS
2022_07_15_001.thx

Sample

Sample Name: 22G0038-02
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

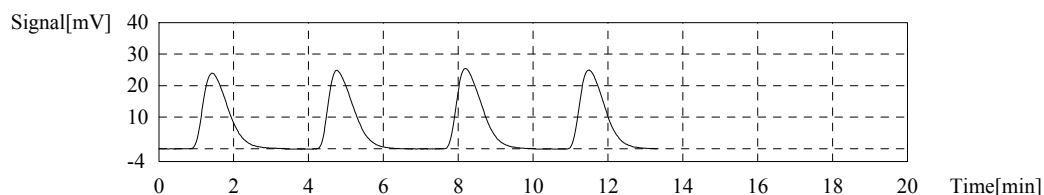
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:16.77mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	112.6	16.10mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 2:28:49 AM
2	116.0	16.58mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 2:33:13 AM
3	119.5	17.08mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 2:37:30 AM
4	116.5	16.65mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 2:41:46 AM

Mean Area 117.3
Mean Conc. 16.77mg/L



Sample

Sample Name: 22G0143-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

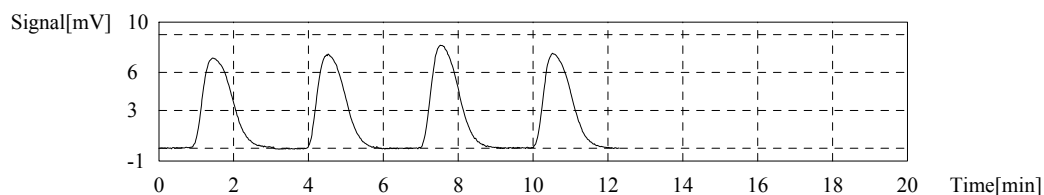
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.468mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.12	5.449mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 2:52:45 AM
2	38.24	5.466mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 2:56:47 AM
3	40.79	5.831mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 3:00:49 AM
4	38.39	5.488mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 3:05:03 AM

Mean Area 38.25
Mean Conc. 5.468mg/L



TOC-Control L Report

RMS
2022_07_15_001.thx

Control Sample

Sample Name: SEQ-CCV3
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 18.98 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

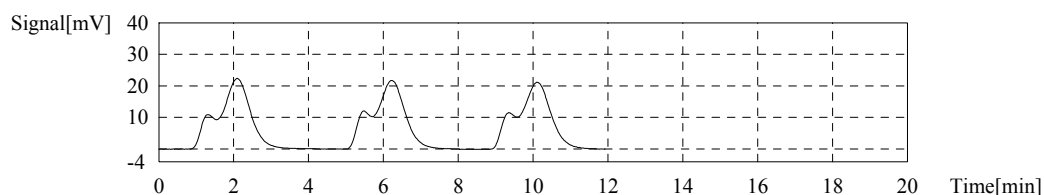
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:18.98ppm

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	137.6	18.96ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 3:17:18 AM
2	137.3	18.92ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 3:22:08 AM
3	138.2	19.05ppm	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 3:27:02 AM

Mean Area: 137.7
Mean Conc.: 18.98ppm



Control Sample

Sample Name: SEQ-CCB3
Sample ID: ICB CCB.tpl
Method: Completed
Status: Completed
Chk. Result: Control value: -0.1953 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

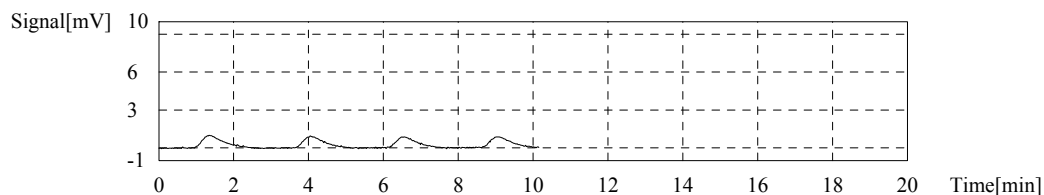
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:-0.1953mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.028	-0.1296mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 3:37:39 AM
2	3.623	-0.1875mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 3:41:08 AM
3	3.572	-0.1948mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 3:44:38 AM
4	3.510	-0.2037mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 3:48:06 AM

Mean Area: 3.568
Mean Conc.: -0.1953mg/L



TOC-Control L Report

RMS
2022_07_15_001.thx

Sample

Sample Name: 22G0222-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

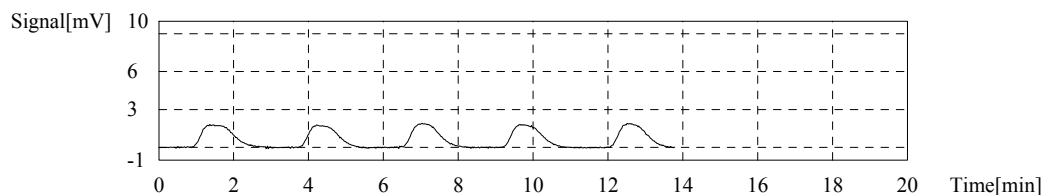
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.410mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.52	1.504mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 3:58:49 AM
2	9.850	1.408mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 4:02:34 AM
3	9.346	1.336mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 4:06:16 AM
4	10.06	1.438mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 4:10:12 AM
5	9.684	1.384mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 4:13:51 AM

Mean Area 9.865
Mean Conc. 1.410mg/L



Sample

Sample Name: 22G0222-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

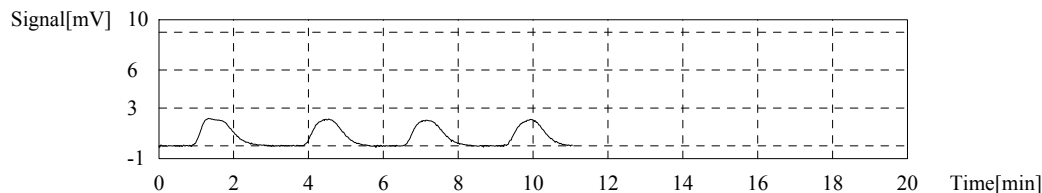
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.540mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.96	1.710mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 4:24:40 AM
2	10.81	1.545mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 4:28:21 AM
3	10.79	1.542mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 4:32:09 AM
4	10.73	1.534mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 4:35:55 AM

Mean Area 10.78
Mean Conc. 1.540mg/L



TOC-Control L Report

RMS
2022_07_15_001.thx

Sample

Sample Name: 22G0222-05
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

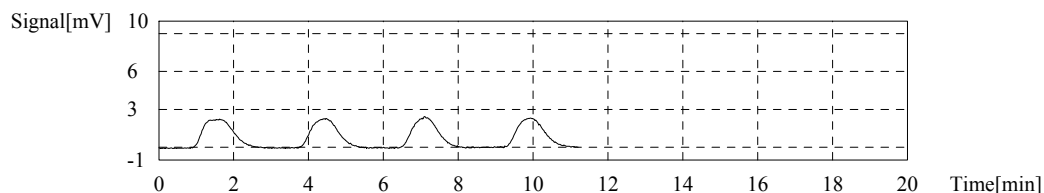
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.690mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.76	1.824mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 4:46:36 AM
2	11.94	1.707mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 4:50:18 AM
3	11.70	1.672mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 4:54:10 AM
4	11.82	1.690mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 4:58:00 AM

Mean Area 11.82
Mean Conc. 1.690mg/L



Sample

Sample Name: 22G0222-07
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

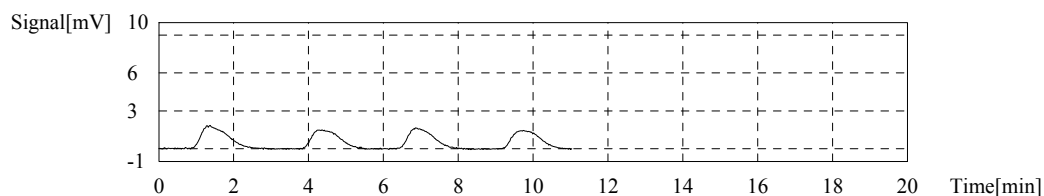
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.079mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.925	1.276mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 5:08:50 AM
2	7.437	1.063mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 5:12:24 AM
3	7.637	1.092mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 5:16:22 AM
4	7.573	1.083mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 5:20:09 AM

Mean Area 7.549
Mean Conc. 1.079mg/L



TOC-Control L Report

RMS
2022_07_15_001.thx

Sample

Sample Name: 22G0222-09
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

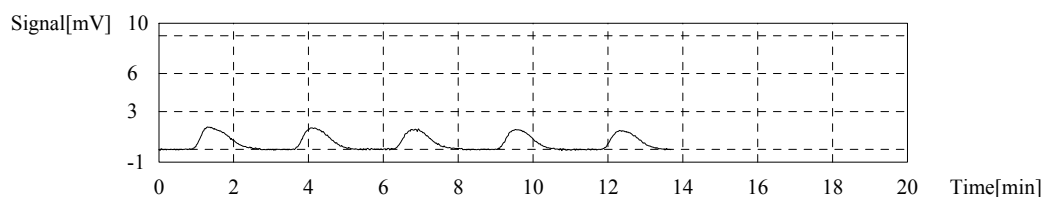
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.177mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.410	1.202mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 5:30:38 AM
2	8.207	1.173mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 5:34:23 AM
3	7.642	1.092mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 5:38:15 AM
4	7.646	1.093mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 5:42:10 AM
5	8.076	1.154mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 5:45:55 AM

Mean Area 8.231
Mean Conc. 1.177mg/L



Sample

Sample Name: 22G0224-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

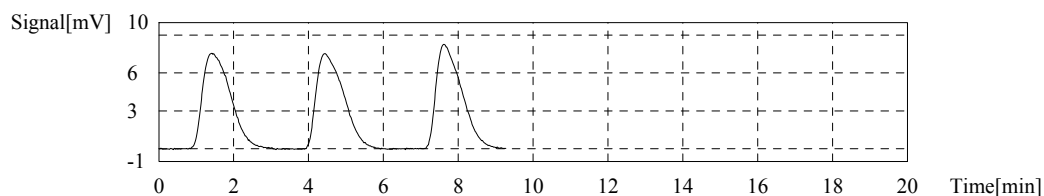
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.676mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	40.04	5.723mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 5:56:44 AM
2	39.34	5.623mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 6:00:56 AM
3	39.74	5.681mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 6:04:59 AM

Mean Area 39.71
Mean Conc. 5.676mg/L



TOC-Control L Report

RMS
2022_07_15_001.thx

Sample

Sample Name: BKG0320-DUP1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

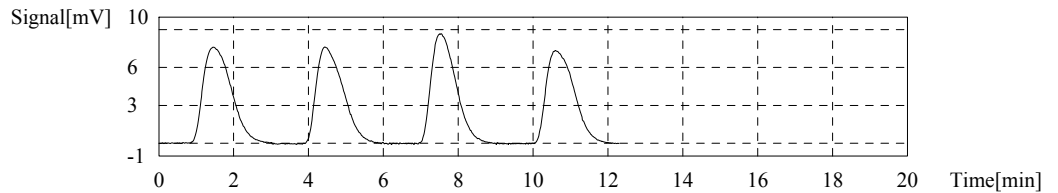
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.584mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	39.85	5.696mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 6:15:55 AM
2	38.70	5.532mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 6:19:58 AM
3	41.17	5.885mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 6:24:08 AM
4	38.64	5.523mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 6:28:15 AM

Mean Area 39.06
Mean Conc. 5.584mg/L



Sample

Sample Name: BKG0320-MS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

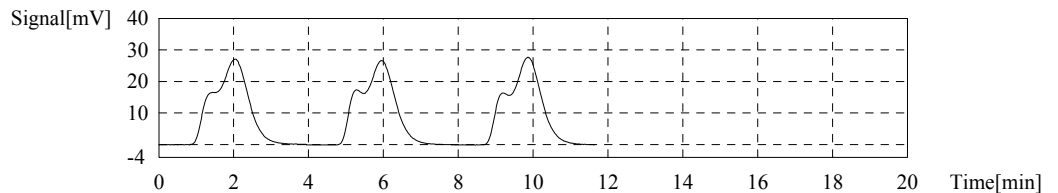
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.47mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	177.8	25.42mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 6:40:05 AM
2	177.7	25.40mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 6:44:58 AM
3	179.1	25.60mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 6:49:46 AM

Mean Area 178.2
Mean Conc. 25.47mg/L



TOC-Control L Report

RMS
2022_07_15_001.thx

Sample

Sample Name: BKG0201-BLK2
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

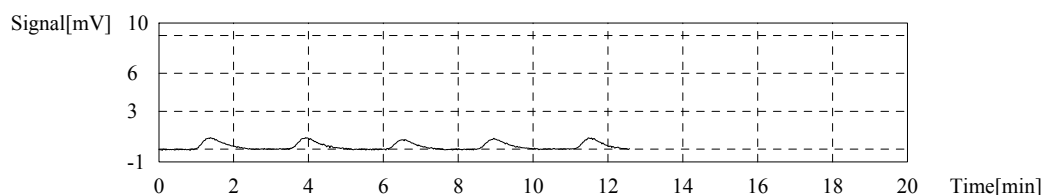
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5489mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.877	0.5542mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 7:00:13 AM
2	3.446	0.4926mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 7:04:03 AM
3	2.852	0.4077mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 7:07:39 AM
4	3.945	0.5639mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 7:11:37 AM
5	3.697	0.5285mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 7:15:14 AM

Mean Area 3.840
Mean Conc. 0.5489mg/L



Control Sample

Sample Name: SEQ-CCV4
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 18.97 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

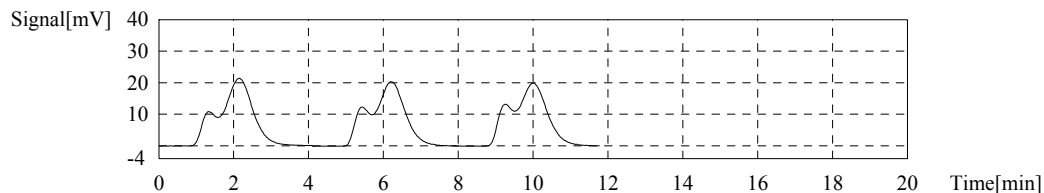
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:18.97ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	137.6	18.96ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 7:27:08 AM
2	137.3	18.92ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 7:31:57 AM
3	138.0	19.02ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 7:36:48 AM

Mean Area 137.6
Mean Conc. 18.97ppm



TOC-Control L Report

RMS
2022_07_15_001.thx

Control Sample

Sample Name: SEQ-CCB4
Sample ID:
Method: ICB CCB.tpl
Status: Completed
Chk. Result: Control value: -0.2848 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

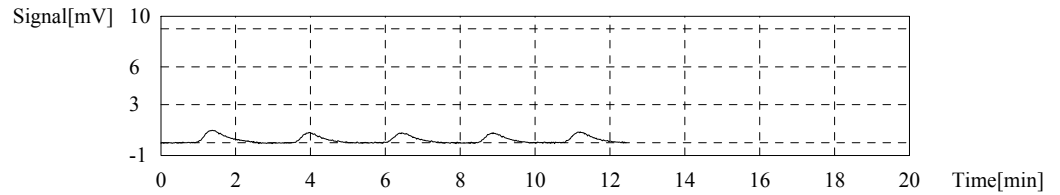
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:-0.2848mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.166	-0.1099mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 7:47:18 AM
2	3.164	-0.2531mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 7:50:46 AM
3	2.912	-0.2892mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 7:54:13 AM
4	2.751	-0.3122mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 7:57:36 AM
5	3.608	-0.1897mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal	7/16/2022 8:01:24 AM

Mean Area: 2.942
Mean Conc.: -0.2848mg/L





INITIAL CALIBRATION DATA

EPA 9060A

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FG00018

Instrument: TOC-LCSH

Calibration Date: 07/07/2022 15:12

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0	0	0.4999	9.813963	0.9998	8.587718	2.4995	8.185637	4.999	7.971594	9.998	7.835567

TOC-Control L Report

RMS
2022_07_07_001.thx

Instr.Information

Instrument Options
Catalyst

TOC/ASI/IC Unit/
Regular Sensitivity

Sample

Sample Name: Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

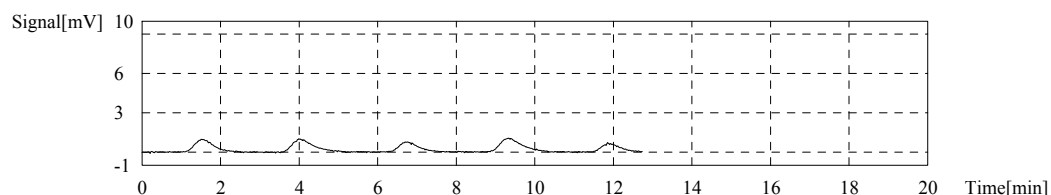
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5165mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.226	0.4602mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_05_15_48_09.cal	7/7/2022 2:57:51 PM
2	3.797	0.5417mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_05_15_48_09.cal	7/7/2022 3:01:32 PM
3	2.902	0.4140mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_05_15_48_09.cal	7/7/2022 3:05:05 PM
4	3.838	0.5475mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_05_15_48_09.cal	7/7/2022 3:08:39 PM
5	2.056	0.2933mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_05_15_48_09.cal	7/7/2022 3:12:02 PM

Mean Area 3.620
Mean Conc. 0.5165mg/L



Cal. Curve

Sample Name: SEQ-CAL
Sample ID: Curve
Cal. Curve: NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal
Status: Completed

Type	Anal.
Standard	NPOC

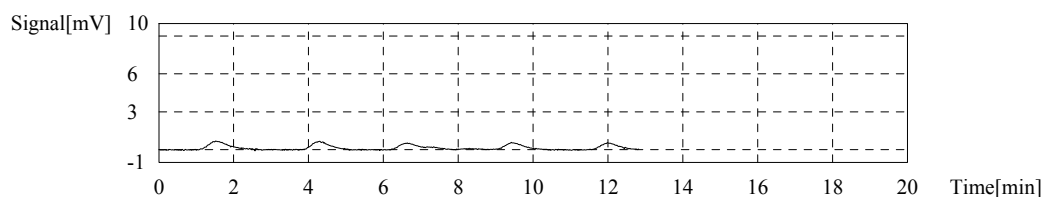
Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	2.708	100uL	1.000	*****	E	7/7/2022 3:20:17 PM
2	2.049	100uL	1.000	*****		7/7/2022 3:23:37 PM
3	2.239	100uL	1.000	*****		7/7/2022 3:27:34 PM
4	1.890	100uL	1.000	*****		7/7/2022 3:31:06 PM
5	1.696	100uL	1.000	*****	E	7/7/2022 3:34:28 PM

TOC-Control L Report

RMS
2022_07_07_001.thx

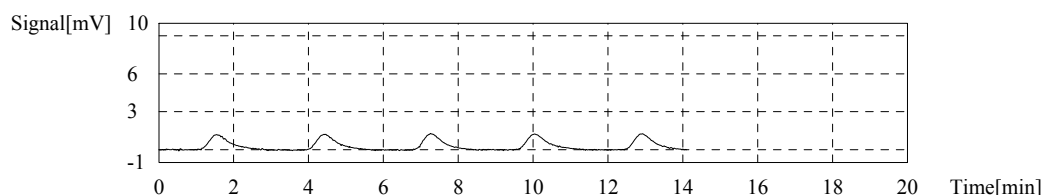
Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 2.059



Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.362	100uL	10.00	*****	E	7/7/2022 3:45:42 PM
2	4.906	100uL	10.00	*****		7/7/2022 3:50:33 PM
3	4.799	100uL	10.00	*****		7/7/2022 3:55:19 PM
4	5.085	100uL	10.00	*****	E	7/7/2022 4:00:19 PM
5	4.673	100uL	10.00	*****		7/7/2022 4:05:03 PM

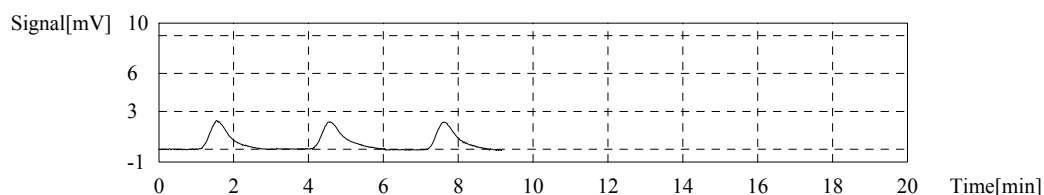
Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 4.793



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	8.586	100uL	5.000	*****		7/7/2022 4:14:23 PM
2	8.757	100uL	5.000	*****		7/7/2022 4:18:25 PM
3	8.837	100uL	5.000	*****		7/7/2022 4:22:32 PM

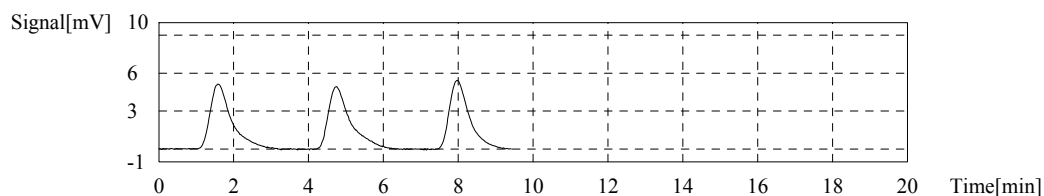
Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 8.727



Conc: 2.500mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	20.46	100uL	2.000	*****		7/7/2022 4:32:13 PM
2	20.64	100uL	2.000	*****		7/7/2022 4:36:25 PM
3	20.44	100uL	2.000	*****		7/7/2022 4:40:26 PM

Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 20.51



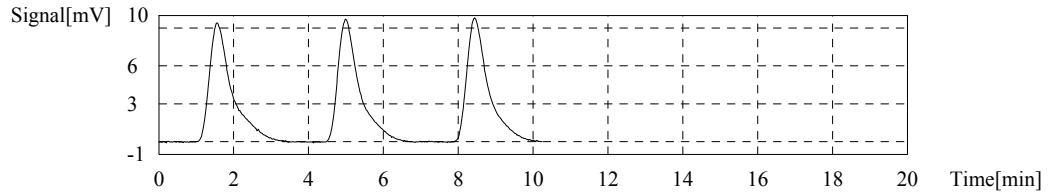
Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	39.85	100uL	1.000	*****		7/7/2022 4:49:46 PM
2	39.62	100uL	1.000	*****		7/7/2022 4:54:11 PM
3	39.70	100uL	1.000	*****		7/7/2022 4:58:33 PM

TOC-Control L Report

RMS
2022_07_07_001.thx

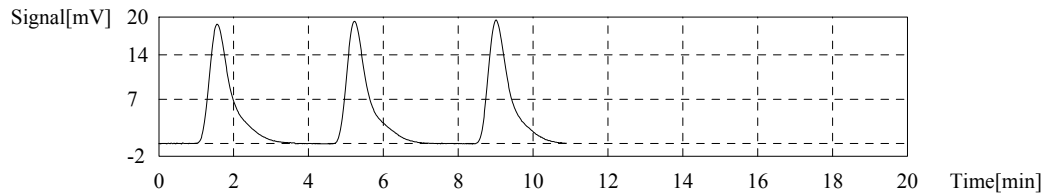
Acid Add. 1.500%
Sparge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 39.72



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	78.34	100uL	5.000	*****		7/7/2022 5:10:41 PM
2	79.60	100uL	5.000	*****		7/7/2022 5:15:28 PM
3	79.20	100uL	5.000	*****		7/7/2022 5:19:54 PM

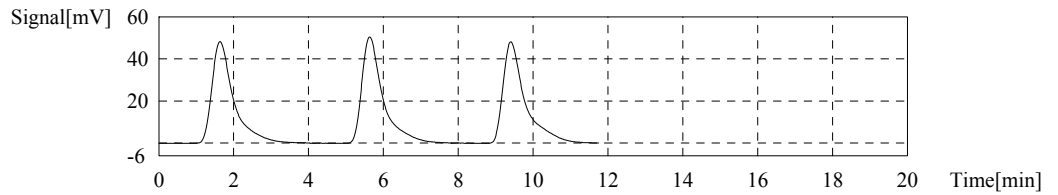
Acid Add. 1.500%
Sparge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 79.05



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.8	100uL	2.000	*****		7/7/2022 5:30:26 PM
2	200.6	100uL	2.000	*****		7/7/2022 5:35:12 PM
3	200.6	100uL	2.000	*****		7/7/2022 5:40:07 PM

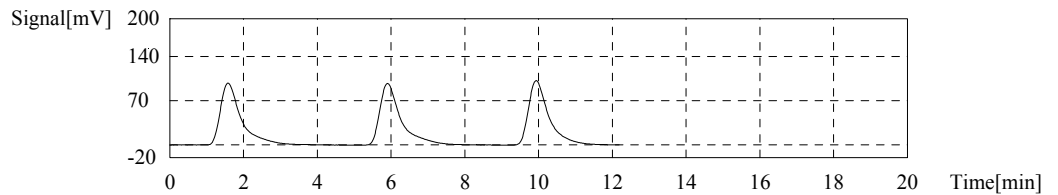
Acid Add. 1.500%
Sparge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 199.3



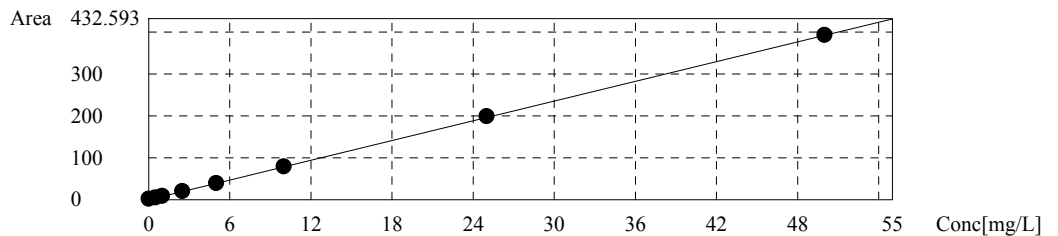
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	391.0	100uL	1.000	*****		7/7/2022 5:50:20 PM
2	393.6	100uL	1.000	*****		7/7/2022 5:55:19 PM
3	395.2	100uL	1.000	*****		7/7/2022 6:00:10 PM

Acid Add. 1.500%
Sparge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 393.3



Slope: 7.857
Intercept: 0.000
r²: 1.0000
r: 1.0000
Zero Shift: Yes



TOC-Control L Report

RMS
2022_07_07_001.thx

Control Sample

Sample Name: SEQ-ICV1
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 20.53 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

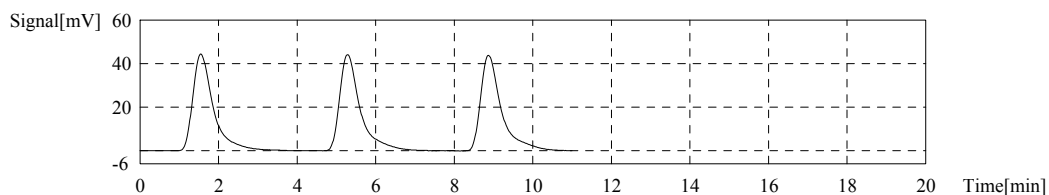
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:20.53ppm

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	162.4	20.53ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:11:49 PM
2	161.8	20.45ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:16:23 PM
3	163.0	20.60ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:21:03 PM

Mean Area: 162.4
Mean Conc.: 20.53ppm



Control Sample

Sample Name: SEQ-ICB1
Sample ID: ICB CCB.tpl
Method: Completed
Chk. Result: Control value: 0.2703 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.2703mg/L

1. Det.

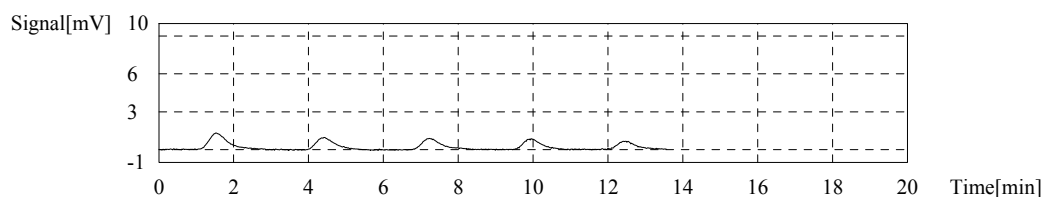
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.390	0.4166mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:31:47 PM
2	3.642	0.3214mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:35:34 PM
3	3.247	0.2712mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:39:17 PM
4	2.831	0.2182mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:42:47 PM
5	2.384	0.1613mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:46:26 PM

TOC-Control L Report

RMS
2022_07_07_001.tk

Mean Area 3.240
Mean Conc. 0.2703mg/L



Sample

Sample Name: SEQ-IFA1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

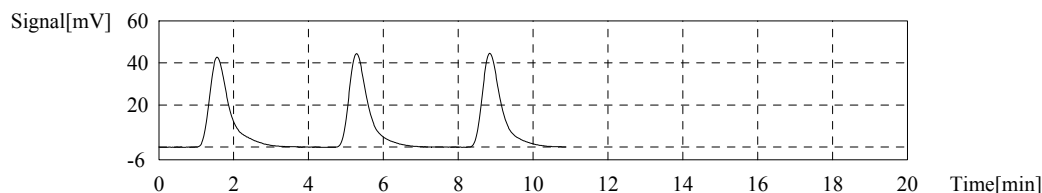
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.44mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	160.2	20.39mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 6:58:05 PM
2	160.7	20.45mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:02:37 PM
3	160.8	20.47mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:07:11 PM

Mean Area 160.6
Mean Conc. 20.44mg/L



Sample

Sample Name: BKG0051-MRL1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8529mg/L

1. Det

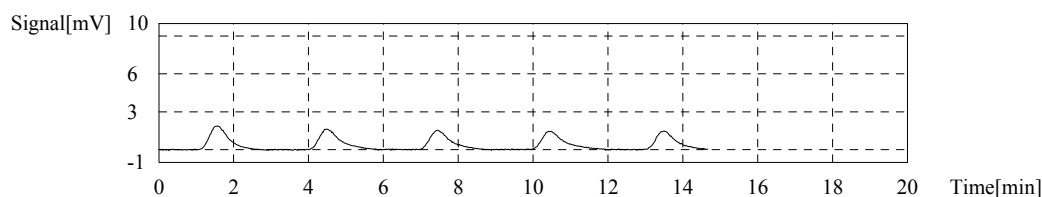
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.970	0.8871mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:18:00 PM
2	6.742	0.8581mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:21:56 PM
3	6.392	0.8136mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:25:56 PM
4	5.886	0.7492mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:29:57 PM
5	5.651	0.7193mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:33:41 PM

TOC-Control L Report

RMS
2022_07_07_001.thx

Mean Area 6.701
Mean Conc. 0.8529mg/L



Sample

Sample Name: BKG0051-BLK1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

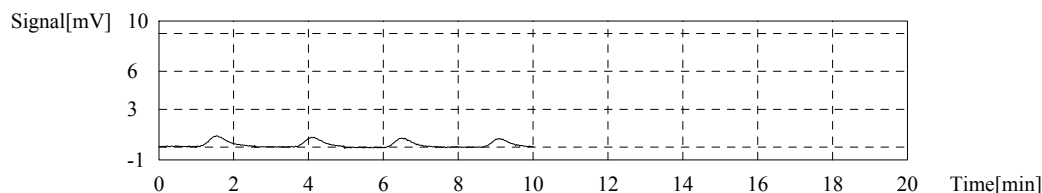
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3094mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.983	0.3797mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:44:01 PM
2	2.408	0.3065mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:47:48 PM
3	2.508	0.3192mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:51:48 PM
4	2.377	0.3025mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 7:55:26 PM

Mean Area 2.431
Mean Conc. 0.3094mg/L



Sample

Sample Name: BKG0051-BS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.08mg/L

1. Det

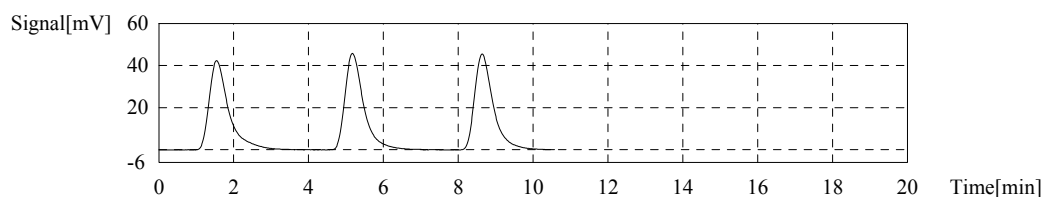
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	155.3	19.77mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:06:46 PM
2	159.3	20.28mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:11:14 PM
3	158.7	20.20mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:15:43 PM

TOC-Control L Report

RMS
2022_07_07_001.tk

Mean Area 157.8
Mean Conc. 20.08mg/L



Sample

Sample Name: 22F0316-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

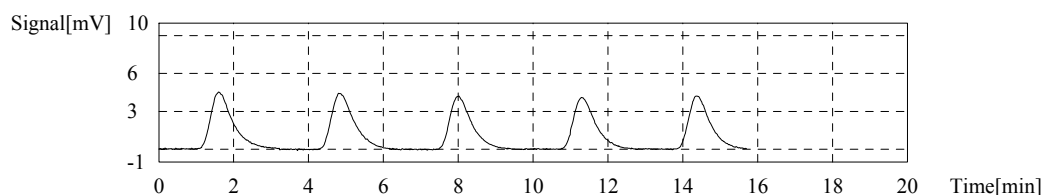
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.190mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.60	2.367mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:26:49 PM
2	19.04	2.423mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:30:58 PM
3	17.79	2.264mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:35:15 PM
4	16.95	2.157mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:39:19 PM
5	16.88	2.148mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:43:14 PM

Mean Area 17.21
Mean Conc. 2.190mg/L



Sample

Sample Name: 22F0316-02
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.065mg/L

1. Det

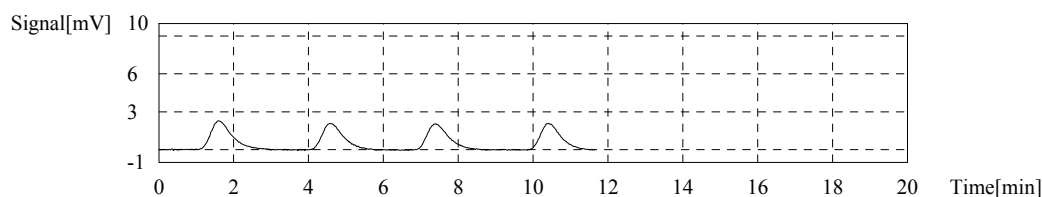
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.717	1.109mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:54:05 PM
2	8.391	1.068mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 8:57:52 PM
3	8.458	1.077mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:01:52 PM
4	8.249	1.050mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:05:43 PM

TOC-Control L Report

RMS
2022_07_07_001.thx

Mean Area 8.366
Mean Conc. 1.065mg/L



Sample

Sample Name: 22F0316-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

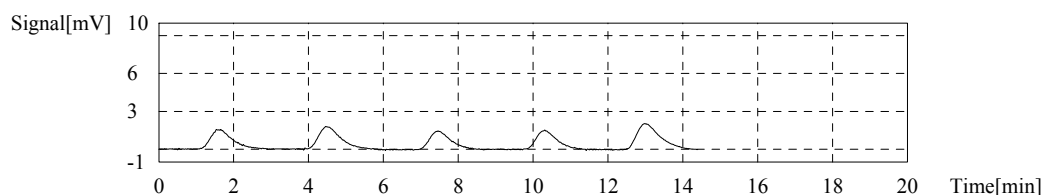
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7525mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.206	0.7899mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:16:30 PM
2	7.274	0.9258mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:20:27 PM
3	5.897	0.7506mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:24:16 PM
4	5.633	0.7170mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:27:57 PM
5	9.027	1.149mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:32:01 PM

Mean Area 5.912
Mean Conc. 0.7525mg/L



Sample

Sample Name: 22F0316-04
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4230mg/L

1. Det

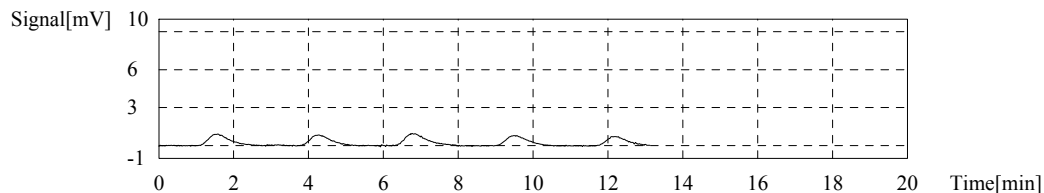
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_07_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.542	0.4508mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:42:39 PM
2	3.166	0.4030mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:46:13 PM
3	3.851	0.4902mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:50:09 PM
4	3.263	0.4153mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:53:56 PM
5	2.677	0.3407mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 9:57:32 PM

Mean Area 3.324
Mean Conc. 0.4230mg/L



Sample

Sample Name: 22F0316-05
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

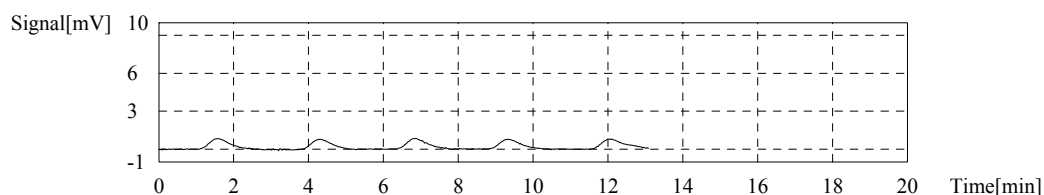
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4056mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.648	0.4643mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:08:27 PM
2	3.185	0.4054mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:12:03 PM
3	3.168	0.4032mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:15:46 PM
4	3.460	0.4404mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:19:46 PM
5	3.208	0.4083mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:23:27 PM

Mean Area 3.187
Mean Conc. 0.4056mg/L



Sample

Sample Name: BKG0051-DUP1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3675mg/L

1. Det

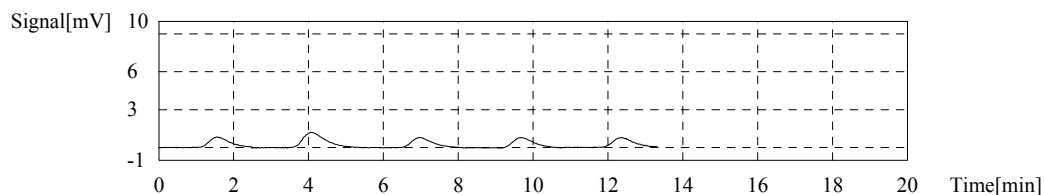
TOC-Control L Report

RMS
2022_07_07_001.thx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.843	0.3619mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:33:52 PM
2	4.960	0.6313mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:38:05 PM
3	3.065	0.3901mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:41:47 PM
4	3.219	0.4097mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:45:29 PM
5	2.754	0.3505mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 10:49:11 PM

Mean Area 2.887
Mean Conc. 0.3675mg/L



Control Sample

Sample Name: SEQ-CCV1
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 19.54 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

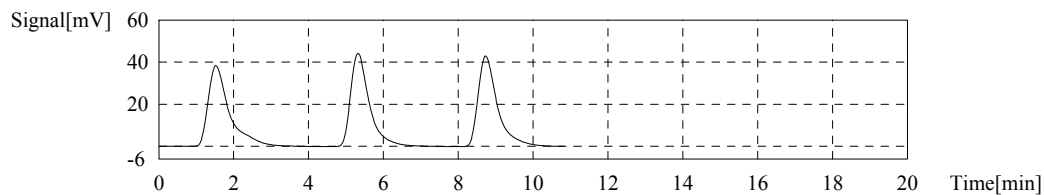
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:19.54ppm

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	152.6	19.28ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:01:05 PM
2	154.7	19.55ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:05:27 PM
3	156.5	19.78ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:10:05 PM

Mean Area 154.6
Mean Conc. 19.54ppm



Control Sample

Sample Name: SEQ-CCB1
Sample ID: ICB CCB1
Method: ICB CCB1.tpl
Status: Completed
Chk. Result: Control value: 0.02509 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

TOC-Control L Report

RMS
2022_07_07_001.thx

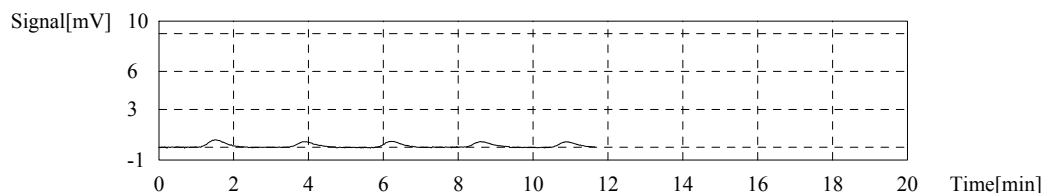
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.02509mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.113	0.1268mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:20:22 PM
2	1.308	0.02437mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:23:48 PM
3	1.701	0.07439mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:27:21 PM
4	1.269	0.01941mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:30:46 PM
5	1.364	0.03150mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:34:15 PM

Mean Area 1.314
Mean Conc. 0.02509mg/L



Sample

Sample Name: BKG0051-MS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

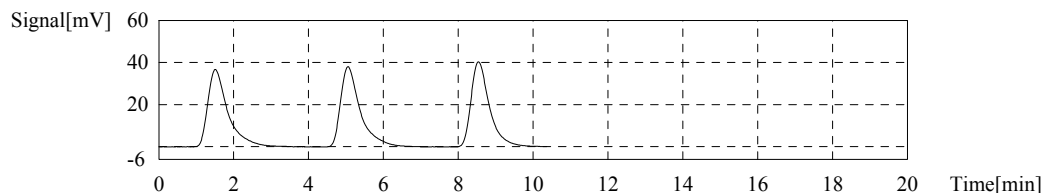
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.71mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	137.7	17.53mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:45:52 PM
2	140.3	17.86mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:50:19 PM
3	139.4	17.74mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/7/2022 11:54:41 PM

Mean Area 139.1
Mean Conc. 17.71mg/L



Sample

Sample Name: BKG0051-MSD1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

TOC-Control L Report

RMS
2022_07_07_001.thx

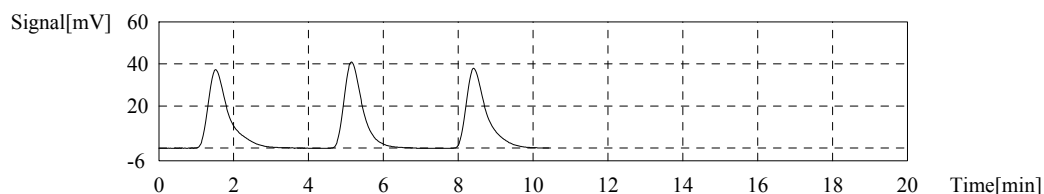
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:18.16mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	143.0	18.20mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:06:12 AM
2	141.8	18.05mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:10:27 AM
3	143.3	18.24mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:14:58 AM

Mean Area 142.7
Mean Conc. 18.16mg/L



Sample

Sample Name: 22F0316-06
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

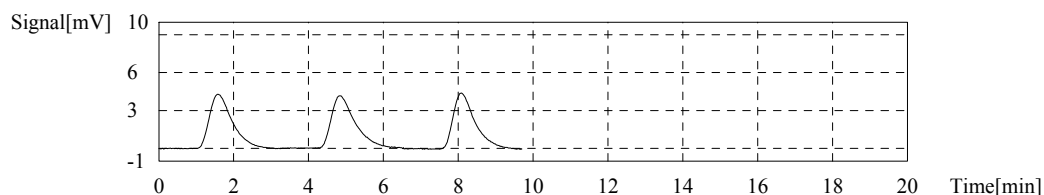
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.348mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.50	2.355mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:26:06 AM
2	18.54	2.360mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:30:22 AM
3	18.30	2.329mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:34:31 AM

Mean Area 18.45
Mean Conc. 2.348mg/L



Sample

Sample Name: 22F0317-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

TOC-Control L Report

RMS
2022_07_07_001.thx

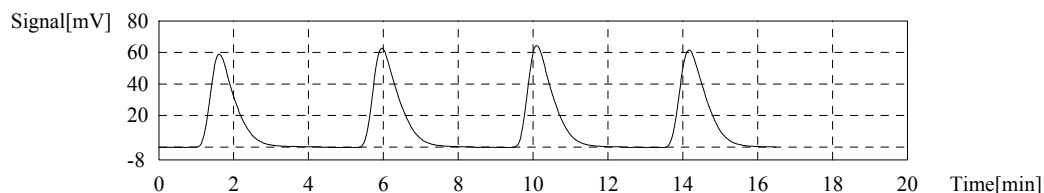
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:773.1mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	273.5	696.2mg/L	100ul	20.00	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:47:10 AM
2	302.8	770.8mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:52:11 AM
3	303.9	773.6mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:57:05 AM
4	304.4	774.9mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:01:56 AM

Mean Area 303.7
Mean Conc. 773.1mg/L



Sample

Sample Name: 22F0318-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

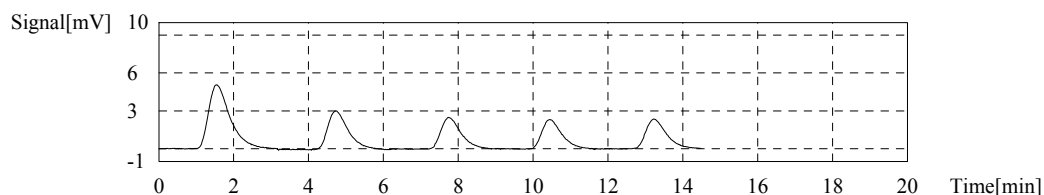
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.148mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.36	2.591mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:12:56 AM
2	11.82	1.504mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:16:56 AM
3	9.329	1.187mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:20:37 AM
4	8.772	1.116mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:24:27 AM
5	8.967	1.141mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:28:18 AM

Mean Area 9.023
Mean Conc. 1.148mg/L



Sample

Sample Name: 22F0331-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

TOC-Control L Report

RMS
2022_07_07_001.thx

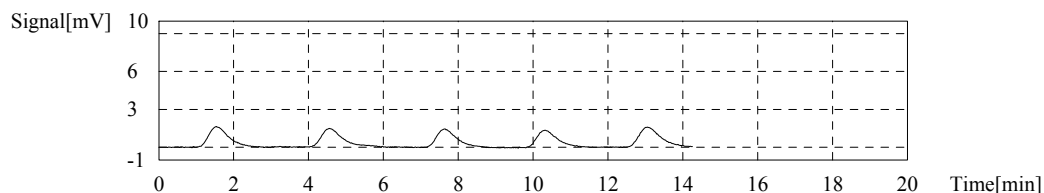
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7863mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.358	0.8092mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:39:10 AM
2	5.865	0.7465mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:43:14 AM
3	5.390	0.6860mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:46:54 AM
4	5.142	0.6545mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:50:42 AM
5	6.310	0.8031mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:54:33 AM

Mean Area 6.178
Mean Conc. 0.7863mg/L



Sample

Sample Name: 22F0331-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

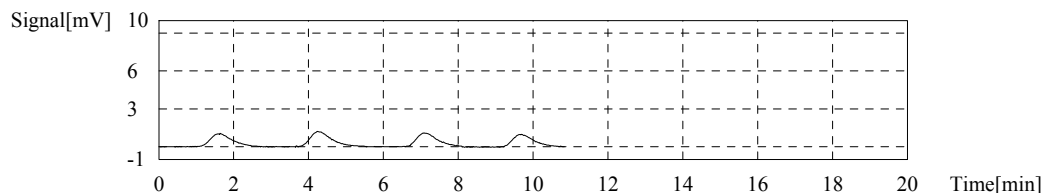
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5092mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.030	0.5129mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:05:00 AM
2	4.965	0.6319mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:08:56 AM
3	3.977	0.5062mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:12:28 AM
4	3.994	0.5084mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:16:25 AM

Mean Area 4.000
Mean Conc. 0.5092mg/L



Sample

Sample Name: 22F0331-05
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

TOC-Control L Report

RMS
2022_07_07_001.thx

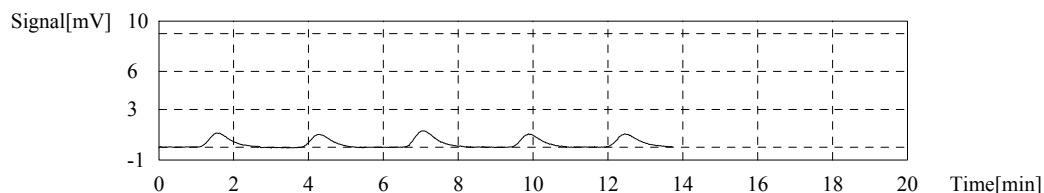
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5373mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.199	0.5344mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:26:55 AM
2	4.185	0.5327mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:30:47 AM
3	5.326	0.6779mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:34:37 AM
4	3.745	0.4767mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:38:10 AM
5	4.280	0.5448mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:42:12 AM

Mean Area 4.221
Mean Conc. 0.5373mg/L



Sample

Sample Name: 22F0476-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

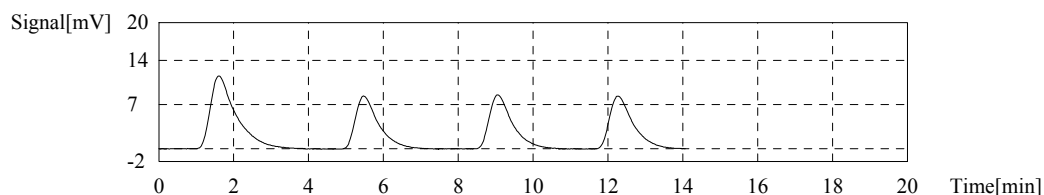
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.681mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	55.40	7.051mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:53:59 AM
2	36.63	4.662mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 2:58:32 AM
3	36.56	4.653mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:02:44 AM
4	37.14	4.727mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:07:06 AM

Mean Area 36.78
Mean Conc. 4.681mg/L



Sample

Sample Name: BKG0051-DUP2
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

TOC-Control L Report

RMS
2022_07_07_001.tlx

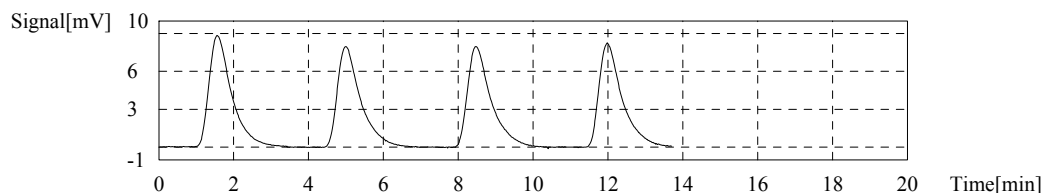
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.496mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.11	4.723mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:18:25 AM
2	34.64	4.409mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:22:53 AM
3	35.86	4.564mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:27:25 AM
4	35.48	4.516mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:31:41 AM

Mean Area 35.33
Mean Conc. 4.496mg/L



Control Sample

Sample Name: SEQ-CCV2
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 19.39 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

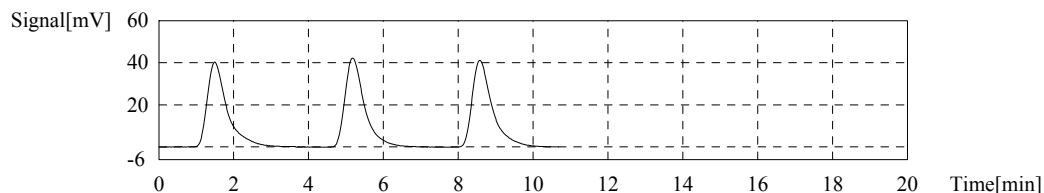
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:19.39ppm

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	150.3	18.99ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:43:12 AM
2	154.5	19.52ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:47:36 AM
3	155.5	19.65ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 3:52:13 AM

Mean Area 153.4
Mean Conc. 19.39ppm



Control Sample

TOC-Control L Report

RMS
2022_07_07_001.thx

Sample Name: SEQ-CCB2
 Sample ID:
 Method: ICB CCB.tpl
 Status: Completed
 Chk. Result: Control value: 0.05399 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

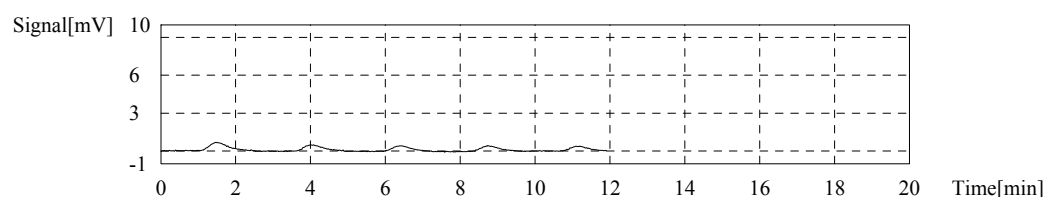
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.05399mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.575	0.1856mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:02:37 AM
2	1.663	0.06956mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:05:58 AM
3	1.466	0.04448mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:09:27 AM
4	1.493	0.04792mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:12:59 AM
5	1.238	0.01546mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:16:23 AM

Mean Area: 1.541
 Mean Conc.: 0.05399mg/L



Sample

Sample Name: BKG0051-MS2
 Sample ID:
 Origin: NPOC 0.5 - 50 ppm.cal
 Status: Completed
 Chk. Result

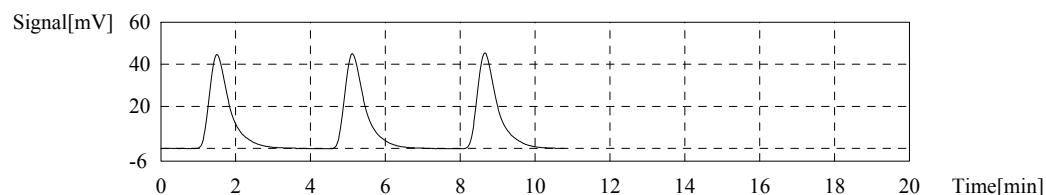
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:21.74mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	169.1	21.52mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:28:13 AM
2	171.0	21.76mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:32:44 AM
3	172.2	21.92mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:37:21 AM

Mean Area: 170.8
 Mean Conc.: 21.74mg/L



TOC-Control L Report

RMS
2022_07_07_001.thx

Sample

Sample Name: 22F0476-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

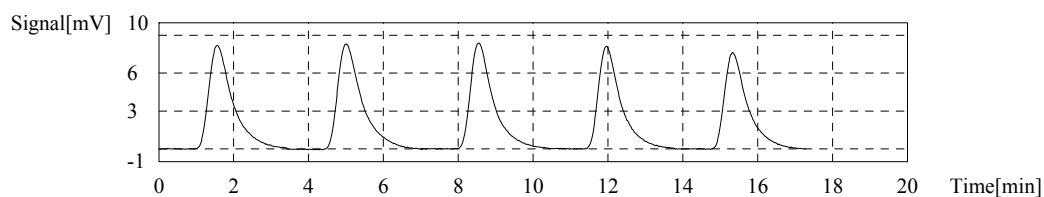
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.682mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.27	4.616mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:48:40 AM
2	38.07	4.846mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:53:14 AM
3	36.02	4.585mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 4:57:38 AM
4	34.20	4.353mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:01:59 AM
5	32.93	4.191mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:06:28 AM

Mean Area 36.79
Mean Conc. 4.682mg/L



Sample

Sample Name: 22G0009-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

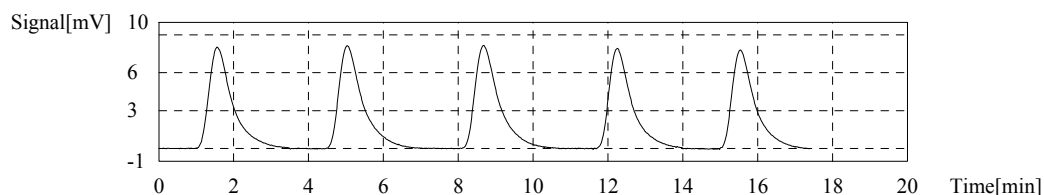
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.570mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	35.01	4.456mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:17:51 AM
2	36.34	4.625mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:22:27 AM
3	36.36	4.628mg/L	100uL	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:27:02 AM
4	33.40	4.251mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:31:18 AM
5	33.66	4.284mg/L	100uL	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:35:41 AM

Mean Area 35.90
Mean Conc. 4.570mg/L



TOC-Control L Report

RMS
2022_07_07_001.thx

Sample

Sample Name: 22G0009-03
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

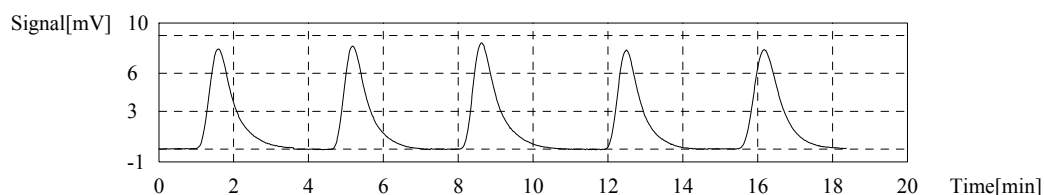
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.526mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.22	4.610mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:47:11 AM
2	36.22	4.610mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:51:38 AM
3	38.94	4.956mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 5:56:29 AM
4	34.24	4.358mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:00:53 AM
5	39.43	5.019mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:05:53 AM

Mean Area 35.56
Mean Conc. 4.526mg/L



Sample

Sample Name: BKG0052-MRL1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

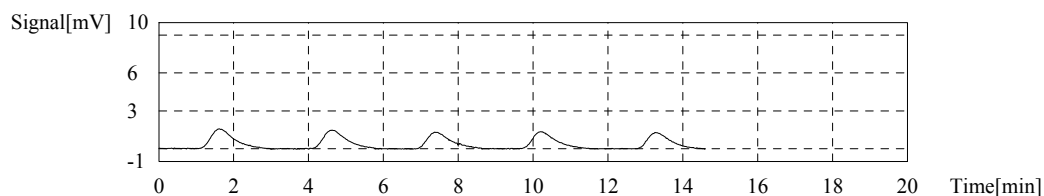
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7207mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.721	0.8554mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:16:46 AM
2	6.232	0.7932mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:20:33 AM
3	5.594	0.7120mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:24:22 AM
4	5.878	0.7482mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:28:27 AM
5	5.515	0.7019mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:32:19 AM

Mean Area 5.662
Mean Conc. 0.7207mg/L



TOC-Control L Report

RMS
2022_07_07_001.thx

Sample

Sample Name: BKG0052-BLK1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

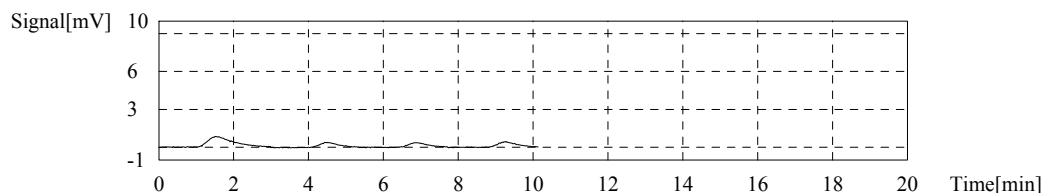
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1727mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.892	0.4954mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:43:12 AM
2	1.259	0.1602mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:46:32 AM
3	1.366	0.1739mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:50:20 AM
4	1.446	0.1840mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 6:54:09 AM

Mean Area 1.357
Mean Conc. 0.1727mg/L



Sample

Sample Name: BKG0052-BS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

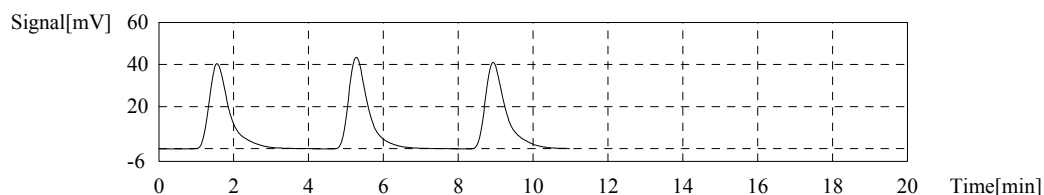
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.97mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	154.1	19.61mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:05:36 AM
2	159.5	20.30mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:10:16 AM
3	157.2	20.01mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:14:51 AM

Mean Area 156.9
Mean Conc. 19.97mg/L



TOC-Control L Report

RMS
2022_07_07_001.thx

Sample

Sample Name: BKG0053-MRL1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

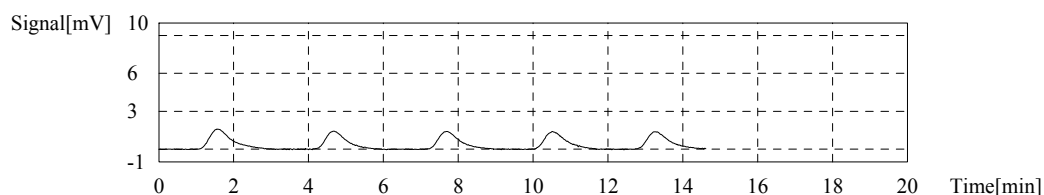
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7031mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.725	0.8560mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:25:52 AM
2	5.661	0.7205mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:29:52 AM
3	5.483	0.6979mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:33:42 AM
4	5.427	0.6907mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:37:27 AM
5	5.718	0.7278mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:41:24 AM

Mean Area 5.524
Mean Conc. 0.7031mg/L



Sample

Sample Name: BKG0053-BLK1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

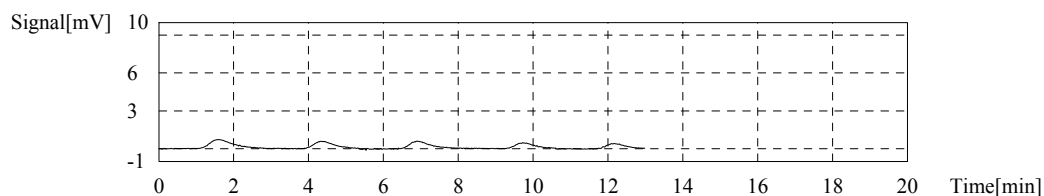
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2124mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.971	0.3781mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:52:07 AM
2	2.138	0.2721mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:55:40 AM
3	2.526	0.3215mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 7:59:43 AM
4	1.515	0.1928mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:03:08 AM
5	1.354	0.1723mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:06:52 AM

Mean Area 1.669
Mean Conc. 0.2124mg/L



TOC-Control L Report

RMS
2022_07_07_001.thx

Sample

Sample Name: BKG0053-BS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

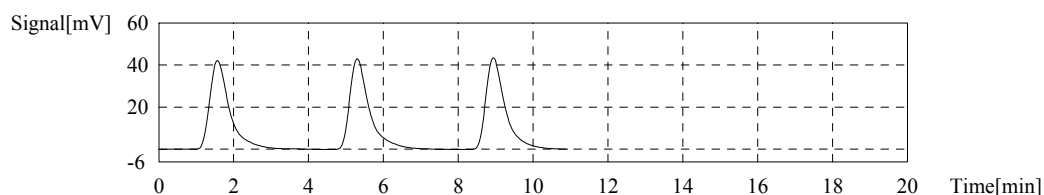
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.01mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	156.3	19.89mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:18:24 AM
2	157.9	20.10mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:23:01 AM
3	157.4	20.03mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:27:32 AM

Mean Area 157.2
Mean Conc. 20.01mg/L



Control Sample

Sample Name: SEQ-CCV3
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 19.89 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

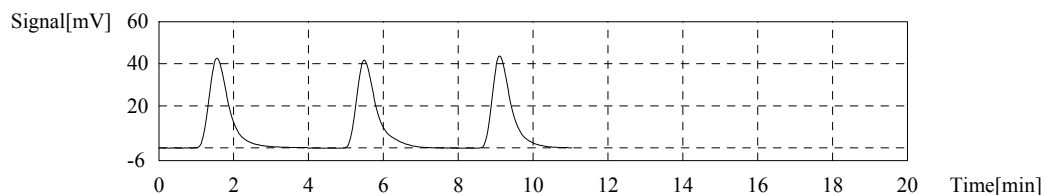
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:19.89ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	159.3	20.13ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:39:33 AM
2	158.2	19.99ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:44:11 AM
3	154.7	19.55ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:48:37 AM

Mean Area 157.4
Mean Conc. 19.89ppm



TOC-Control L Report

RMS
2022_07_07_001.thx

Control Sample

Sample Name: SEQ-CCB3
Sample ID:
Method: ICB CCB.tpl
Status: Completed
Chk. Result: Control value: 0.09047 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

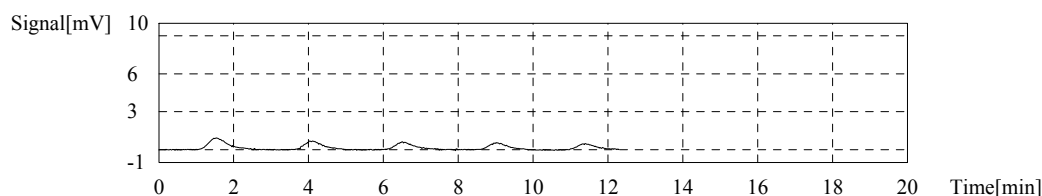
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.09047mg/L

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.264	0.2733mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 8:59:05 AM
2	2.202	0.1382mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:02:30 AM
3	2.022	0.1153mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:06:03 AM
4	1.682	0.07198mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:09:25 AM
5	1.778	0.08419mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:13:00 AM

Mean Area: 1.827
Mean Conc.: 0.09047mg/L



Sample

Sample Name: 22F0321-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	10.00	NPOC:6527mg/L

1. Det

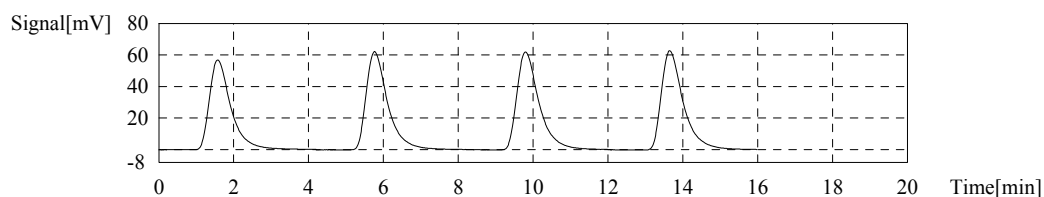
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	229.5	5842mg/L	100ul	20.00	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:25:33 AM
2	252.1	6417mg/L	100ul	20.00	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:30:26 AM
3	258.1	6570mg/L	100ul	20.00	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:35:11 AM
4	259.0	6593mg/L	100ul	20.00	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:40:05 AM

TOC-Control L Report

RMS
2022_07_07_001.thx

Mean Area 256.4
Mean Conc. 6527mg/L



Sample

Sample Name: BKG0052-DUP1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

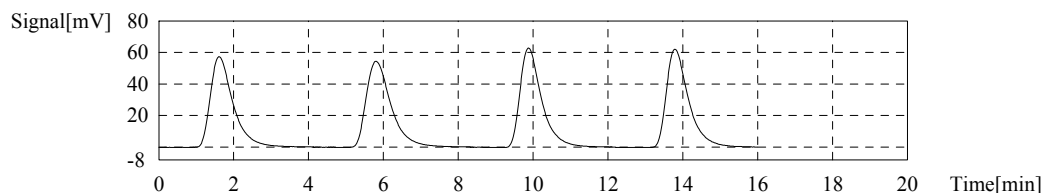
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	10.00	NPOC:6524mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	245.1	6239mg/L	100ul	20.00	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:52:22 AM
2	253.5	6453mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 9:57:25 AM
3	255.9	6514mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:02:11 AM
4	259.5	6606mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:06:57 AM

Mean Area 256.3
Mean Conc. 6524mg/L



Sample

Sample Name: BKG0052-MS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	10.00	NPOC:6366mg/L

1. Det

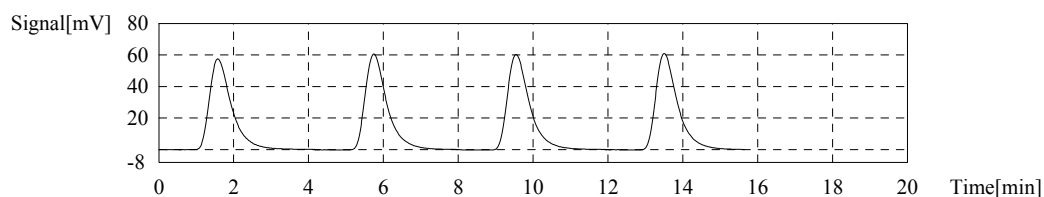
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	239.6	6099mg/L	100ul	20.00	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:19:23 AM
2	248.8	6333mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:24:03 AM
3	251.0	6389mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:29:05 AM
4	250.4	6374mg/L	100ul	20.00		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:33:42 AM

TOC-Control L Report

RMS
2022_07_07_001.tk

Mean Area 250.1
Mean Conc. 6366mg/L



Sample

Sample Name: DI Rinse
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

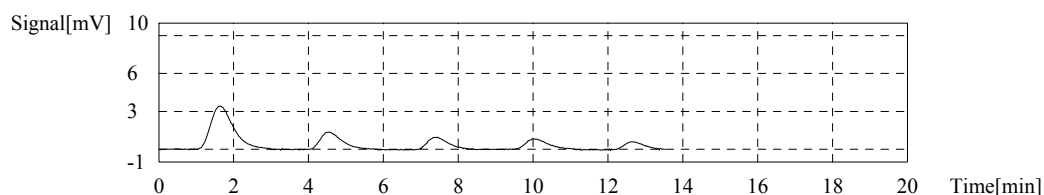
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4070mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.21	1.809mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:44:46 AM
2	5.636	0.7173mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:48:36 AM
3	4.019	0.5115mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:52:13 AM
4	3.241	0.4125mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:55:59 AM
5	2.333	0.2969mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 10:59:33 AM

Mean Area 3.198
Mean Conc. 0.4070mg/L



Sample

Sample Name: 22F0322-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:106.4mg/L

1. Det

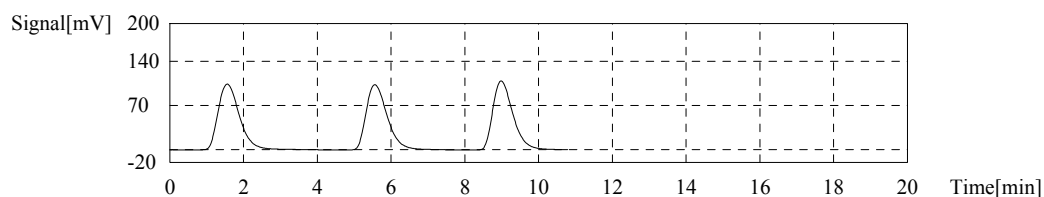
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	423.6	107.8mg/L	50ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:11:18 AM
2	412.6	105.0mg/L	50ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:15:44 AM
3	418.3	106.5mg/L	50ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:20:02 AM

TOC-Control L Report

RMS
2022_07_07_001.thx

Mean Area 418.2
Mean Conc. 106.4mg/L



Sample

Sample Name: 22F0339-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

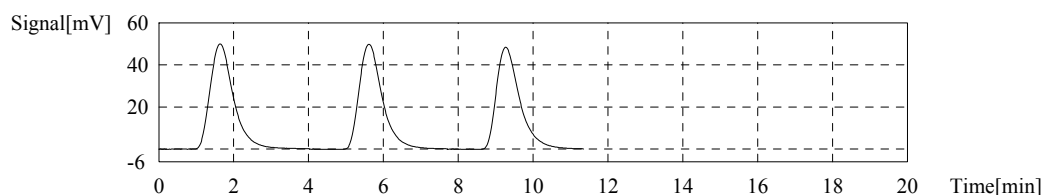
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.42mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	219.0	27.87mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:31:57 AM
2	216.0	27.49mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:36:37 AM
3	211.4	26.91mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:41:15 AM

Mean Area 215.5
Mean Conc. 27.42mg/L



Sample

Sample Name: BKG0053-DUP1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.72mg/L

1. Det

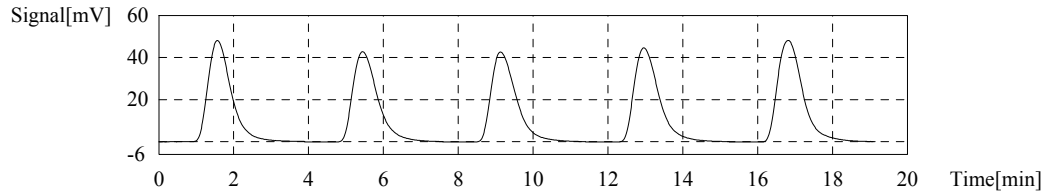
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	208.8	26.58mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:53:02 AM
2	199.3	25.37mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 11:57:43 AM
3	199.1	25.34mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:02:31 PM
4	207.9	26.46mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:07:20 PM
5	227.8	28.99mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:12:13 PM

TOC-Control L Report

RMS
2022_07_07_001.thx

Mean Area 202.1
Mean Conc. 25.72mg/L



Sample

Sample Name: BKG0053-MS1
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

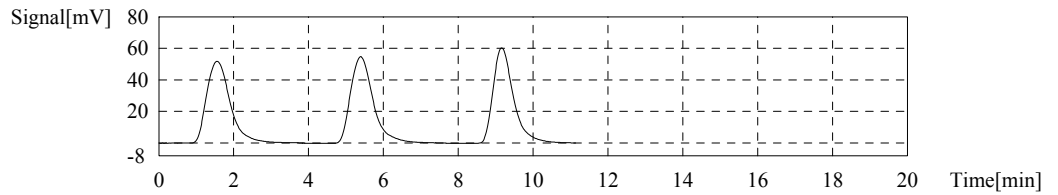
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:58.81mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	228.4	58.14mg/L	50ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:23:58 PM
2	233.9	59.54mg/L	50ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:28:47 PM
3	230.8	58.75mg/L	50ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:33:14 PM

Mean Area 231.0
Mean Conc. 58.81mg/L



Sample

Sample Name: 22F0340-01
Sample ID:
Origin: NPOC 0.5 - 50 ppm.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5358mg/L

1. Det

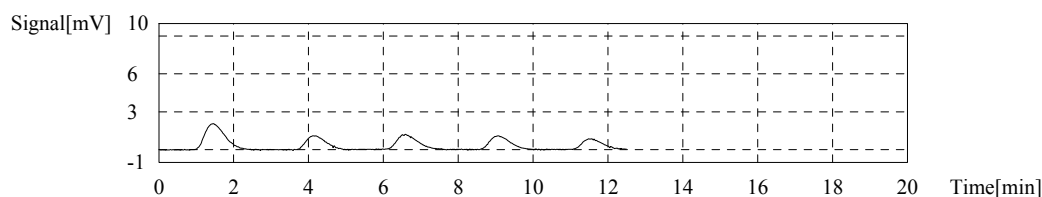
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.921	1.008mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:43:50 PM
2	4.117	0.5240mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:47:20 PM
3	4.413	0.5617mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:51:10 PM
4	4.100	0.5218mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:54:58 PM
5	3.067	0.3904mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 12:58:41 PM

TOC-Control L Report

RMS
2022_07_07_001.thx

Mean Area 4.210
Mean Conc. 0.5358mg/L



Control Sample

Sample Name: SEQ-CCV4
Sample ID: CVS 20
Method: CVS 20 ppm.tpl
Status: Completed
Chk. Result: Control value: 19.68 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

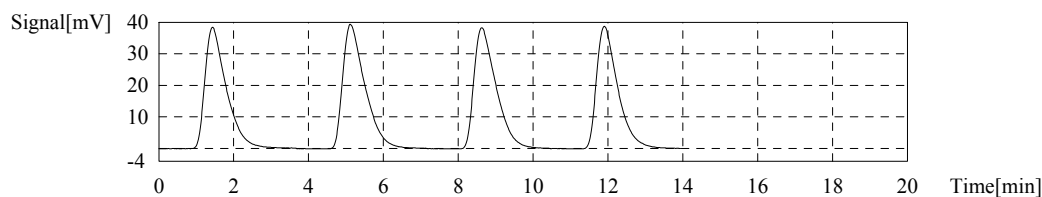
Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:19.68ppm

1. Det.

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	154.4	19.51ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:10:06 PM
2	164.1	20.74ppm	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:14:35 PM
3	158.8	20.07ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:18:51 PM
4	153.9	19.45ppm	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:23:19 PM

Mean Area 155.7
Mean Conc. 19.68ppm



Control Sample

Sample Name: SEQ-CCB4
Sample ID: ICB CCB.tpl
Method: ICB CCB.tpl
Status: Completed
Chk. Result: Control value: 0.1727 / Control within range!

(Zero shift setting of cal. curve has been ignored in conc. calculation)

Type	Anal.	Manual Dilution	Result
Control	NPOC	1.000	NPOC:0.1727mg/L

1. Det.

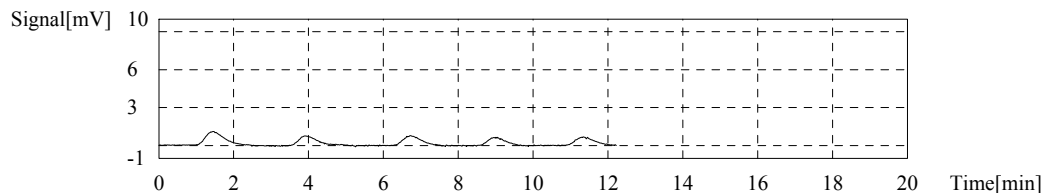
Anal.: NPOC

TOC-Control L Report

RMS
2022_07_07_001.thx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.699	0.3287mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:33:41 PM
2	3.440	0.2957mg/L	100ul	1.000	E	NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:37:29 PM
3	2.528	0.1797mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:40:44 PM
4	2.406	0.1641mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:44:17 PM
5	2.487	0.1744mg/L	100ul	1.000		NPOC 0.5 - 50 ppm.2022_07_07_15_12_03.cal	7/8/2022 1:47:48 PM

Mean Area 2.474
Mean Conc. 0.1727mg/L





INITIAL CALIBRATION DATA

EPA 9060A

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FG00037

Instrument: TOC-LCSH

Calibration Date: 07/14/2022 17:32

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0	0	0.4999	17.20544	0.9998	12.27246	2.4995	8.801761	4.999	7.857571	9.998	7.430486

Date of Creation 7/15/2022 1:29:02 AM
 User RMS
 System TOC-L SUSPENDED SOLIDS

Cal. Curve

Sample Name: SEQ-CAL
 Sample ID: Curve
 Object ID: 0L-10000101463-10101000-1348B2A24CD9-0001
 Cal. Curve: NPOC 0.5 - 50 ppm.2022_07_14_22_33_53.cal
 Status: Completed
 Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	10.94	100uL	1.000	*****	E	7/14/2022 10:42:57 PM
2	4.836	100uL	1.000	*****	E	7/14/2022 10:46:13 PM
3	5.165	100uL	1.000	*****		7/14/2022 10:49:58 PM
4	5.164	100uL	1.000	*****		7/14/2022 10:53:45 PM
5	5.207	100uL	1.000	*****		7/14/2022 10:57:18 PM

Acid Add. 1.500%
 Sparge Gas Flow 80ml
 Sp. Time 90.00sec
 Mean Area 5.179
 SD Area 0.02454
 CV Area 0.47%
 Vial 0

Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	8.601	100uL	10.00	*****		7/14/2022 11:08:48 PM
2	8.686	100uL	10.00	*****		7/14/2022 11:13:34 PM
3	9.194	100uL	10.00	*****	E	7/14/2022 11:18:31 PM
4	8.439	100uL	10.00	*****		7/14/2022 11:23:29 PM

Acid Add. 1.500%
 Sparge Gas Flow 80ml
 Sp. Time 90.00sec
 Mean Area 8.575
 SD Area 0.1255
 CV Area 1.46%
 Vial 1

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	12.87	100uL	5.000	*****	E	7/14/2022 11:33:10 PM
2	12.27	100uL	5.000	*****		7/14/2022 11:37:19 PM
3	11.56	100uL	5.000	*****	E	7/14/2022 11:41:30 PM
4	12.06	100uL	5.000	*****		7/14/2022 11:45:48 PM
5	12.59	100uL	5.000	*****		7/14/2022 11:49:52 PM

Acid Add. 1.500%
 Sparge Gas Flow 80ml
 Sp. Time 90.00sec
 Mean Area 12.31
 SD Area 0.2669
 CV Area 2.17%
 Vial 1

Conc: 2.500mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	22.00	100uL	2.000	*****		7/14/2022 11:59:40 PM
2	22.29	100uL	2.000	*****		7/15/2022 12:04:04 AM
3	22.18	100uL	2.000	*****		7/15/2022 12:08:21 AM

Acid Add. 1.500%
 Sparge Gas Flow 80ml
 Sp. Time 90.00sec
 Mean Area 22.16
 SD Area 0.1464
 CV Area 0.66%
 Vial 1

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	39.28	100uL	1.000	*****		7/15/2022 12:17:42 AM
2	39.01	100uL	1.000	*****		7/15/2022 12:22:16 AM
3	38.34	100uL	1.000	*****		7/15/2022 12:26:43 AM

Acid Add. 1.500%
 Sparge Gas Flow 80ml
 Sp. Time 90.00sec
 Mean Area 38.88
 SD Area 0.4840
 CV Area 1.24%
 Vial 1

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	74.29	100uL	5.000	*****		7/15/2022 12:38:57 AM
2	74.75	100uL	5.000	*****		7/15/2022 12:43:33 AM
3	74.32	100uL	5.000	*****		7/15/2022 12:48:11 AM

Acid Add. 1.500%
 Sparge Gas Flow 80ml
 Sp. Time 90.00sec
 Mean Area 74.45
 SD Area 0.2574
 CV Area 0.35%
 Vial 2

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	181.5	100uL	2.000	*****		7/15/2022 12:58:45 AM
2	181.1	100uL	2.000	*****		7/15/2022 1:03:41 AM
3	181.6	100uL	2.000	*****		7/15/2022 1:08:43 AM

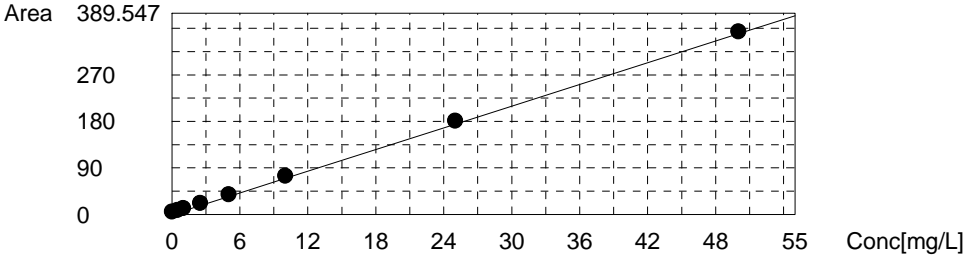
Acid Add. 1.500%
 Sparge Gas Flow 80ml
 Sp. Time 90.00sec
 Mean Area 181.4
 SD Area 0.2646
 CV Area 0.15%
 Vial 2

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	354.9	100uL	1.000	*****		7/15/2022 1:18:54 AM
2	354.2	100uL	1.000	*****		7/15/2022 1:24:00 AM
3	353.3	100uL	1.000	*****		7/15/2022 1:29:02 AM

Acid Add. 1.500%
Spurge Gas Flow 80ml
Sp. Time 90.00sec
Mean Area 354.1
SD Area 0.8021
CV Area 0.23%
Vial 2

Slope: 6.996
Intercept 0.000
 r^2 1.0000
 r 1.0000
Zero Shift Yes





Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 9060A

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: TOC-LCSH

Calibration: FG00018

Sequence: SKG0136

Date Analyzed: 07/11/22 18:31

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKG0136-ICB1	Total Organic Carbon	0.10	0.5	0.50	mg/L	
SKG0136-CCB1	Total Organic Carbon	0.12	0.5	0.50	mg/L	
SKG0136-CCB2	Total Organic Carbon	0.11	0.5	0.50	mg/L	
SKG0136-CCB3	Total Organic Carbon	0.09	0.5	0.50	mg/L	



Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 9060A

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: TOC-LCSH

Calibration: UNASSIGNED

Sequence: SKG0175

Date Analyzed: 07/15/22 02:05

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKG0175-ICB1	Total Organic Carbon	0.21	0.5	0.50	mg/L	
SKG0175-CCB1	Total Organic Carbon	0.07	0.5	0.50	mg/L	



Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS EPA 9060A

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: TOC-LCSH

Calibration: FG00037

Sequence: SKG0176

Date Analyzed: 07/15/22 13:18

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKG0176-ICB1	Total Organic Carbon	0.005	0.5	0.50	mg/L	
SKG0176-CCB1	Total Organic Carbon	-0.16	0.5	0.50	mg/L	
SKG0176-CCB2	Total Organic Carbon	-0.20	0.5	0.50	mg/L	
SKG0176-CCB3	Total Organic Carbon	-0.20	0.5	0.50	mg/L	
SKG0176-CCB4	Total Organic Carbon	-0.28	0.5	0.50	mg/L	



Analytical Resources, LLC
Analytical Chemists and Consultants

**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 9060A**

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: TOC-LCSH

Calibration: FG00018

Control Limit: +/- 10.00%

Sequence: SKG0136

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKG0136-ICV1	Total Organic Carbon	20.000	18.42	92.1	mg/L	EPA 9060A
SKG0136-CCV1	Total Organic Carbon	20.000	18.40	92.0	mg/L	EPA 9060A
SKG0136-CCV2	Total Organic Carbon	20.000	18.28	91.4	mg/L	EPA 9060A
SKG0136-CCV3	Total Organic Carbon	20.000	18.24	91.2	mg/L	EPA 9060A

* Values outside of QC limits



Analytical Resources, LLC
Analytical Chemists and Consultants

**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 9060A**

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: TOC-LCSH

Calibration: UNASSIGNED

Control Limit: +/- 10.00%

Sequence: SKG0175

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKG0175-ICV1	Total Organic Carbon	20.000	19.41	97.1	mg/L	EPA 9060A
SKG0175-CCV1	Total Organic Carbon	20.000	19.22	96.1	mg/L	EPA 9060A

* Values outside of QC limits



**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 9060A**

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: TOC-LCSH

Calibration: FG00037

Control Limit: +/- 10.00%

Sequence: SKG0176

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKG0176-ICV1	Total Organic Carbon	20.000	19.15	95.8	mg/L	EPA 9060A
SKG0176-CCV1	Total Organic Carbon	20.000	18.73	93.7	mg/L	EPA 9060A
SKG0176-CCV2	Total Organic Carbon	20.000	18.79	94.0	mg/L	EPA 9060A
SKG0176-CCV3	Total Organic Carbon	20.000	18.98	94.9	mg/L	EPA 9060A
SKG0176-CCV4	Total Organic Carbon	20.000	18.97	94.9	mg/L	EPA 9060A

* Values outside of QC limits



HOLDING TIME SUMMARY

Analysis: EPA 9060A

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Z1A-4-PW 22G0121-02	07/06/22 11:30	07/08/22 06:47	07/11/22 14:53	5	28	07/12/22 07:12	6	28	
Z1A-7-PW 22G0121-03	07/06/22 11:10	07/08/22 06:47	07/11/22 14:53	5	28	07/12/22 07:40	6	28	

* Indicates hold time exceedance.



Analytical Resources, LLC
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

EPA 9060A

Laboratory: Analytical Resources, LLC

SDG: 22G0121

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Water

Instrument: TOC-LCSH

Analyte	MDL	RL	Units
Total Organic Carbon	0.50	0.50	mg/L



Analytical Resources, LLC
Analytical Chemists and Consultants

25 July 2022

Brian Tracy
GeoEngineers
17425 Union Hill Road Suite 250
Redmond, WA 98052

RE: RG Haley Site-Bellingham

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

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

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

Associated Work Order(s)
22G0019

Associated SDG ID(s)
N/A

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

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

Analytical Resources, LLC

Kelly Bottem For Shelly Fishel, Project Manager

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



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: <i>22G0019</i>	Turn-around Requested: Standard	Date: <i>6/30/22</i>
ARI Client Company: GeoEngineers	Phone: 206-239-3250	Page: 1 of 2
Client Contact: Brian Tracy		No. of Coolers: <i>2</i> Cooler Temps: <i>-10, 2, 2</i>



Analytical Resources, LLC
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Client Project Name: RG Haley PRDI	Analysis Requested	Notes/Comments
Client Project #: 0356-114-08	Samplers: Nate Solomon, Brittany Davis	

Sample ID	Date	Time	Matrix	Number of Containers	NWTPH-Dx	NWTPH-Dx with acid silica gel cleanup	PAHs ¹ and PCP (EPA 8270E)	PAHs ¹ (EPA 8270E)	PCP (EPA 8041A)	Total Organic Carbon (SW 9060A)	Porewater Extraction		
Z1A-1-SC_5.5-7.5	06.27.2022	1320	Sediment	<i>3</i>	X	X	X			X			
Z1A-1-SC_7.5-9.5	06.27.2022	1325	Sediment	<i>1</i>	X	X	X			X			
Z1A-2-SC_3.5-5.5	06.27.2022	1230	Sediment	<i>1</i>	X	X	X			X			
Z1A-4-SC_3.5-5.5	06.28.2022	1040	Sediment	<i>1</i>	X	X	X			X			
Z1A-4-SC_6.5-8.5	06.28.2022	1045	Sediment	<i>1</i>	X	X	X			X			
Z1A-5-SC_2.5-4.5	06.28.2022	1140	Sediment	<i>1</i>	X	X	X			X			
Z1A-7-SC_2.5-4.5	06.28.2022	1210	Sediment	<i>1</i>	X	X	X			X			
Z1A-7-SC_4.5-6.5	06.28.2022	1215	Sediment	<i>1</i>	X	X	X			X			
Z1A-10-SC_3.5-5.5	6.29.2022	1135	Sediment	<i>1</i>	X	X	X			X			
Z1A-10-SC_6.5-8.5	6.29.2022	1140	Sediment	<i>1</i>	X	X	X			X			
Z1A-11-SC_4.0-6.0	6.29.2022	1200	Sediment	<i>1</i>	X	X	X			X			

Comments/Special Instructions ¹ PAHs list to include 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, fluoranthene, naphthalene, phenanthrene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene). ² Porewater extraction to be completed by EcoAnalysts in Port Gamble.	Relinquished by: (Signature) <i>Brittany Davis</i>	Received by: (Signature) <i>Ronan Miller</i>	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: <i>BRITTANY DAVIS</i>	Printed Name: <i>Ronan Miller</i>	Printed Name:	Printed Name:
	Company: <i>GeoEngineers</i>	Company: <i>ARI</i>	Company:	Company:
	Date & Time: <i>6/30/22 @ 1055</i>	Date & Time: <i>6/30/22 1055</i>	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer.

Chain of Custody Record & Laboratory Analysis Request



Analytical Resources, LLC
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

ARI Assigned Number: <i>2260019</i>	Turn-around Requested: Standard	Date: <i>6/30/22</i>
ARI Client Company: GeoEngineers	Phone: 206-239-3250	Page: <i>2</i> of <i>2</i>
Client Contact: Brian Tracy	No. of Coolers:	Cooler Temps: <i>7.100</i>

Client Project Name: RG Haley PRDI	Analysis Requested							Notes/Comments
Client Project #: 0356-114-08	Samplers: Nate Solomon, Brittany Davis	NWTPH-Dx	NWTPH-Dx with acid silica gel cleanup	PAHs ¹ and PCP (EPA 8270E)	PAHs ¹ (EPA 8270E)	PCP (EPA 8041A)	Total Organic Carbon (SW 9060A)	

Sample ID	Date	Time	Matrix	Number of Containers	NWTPH-Dx	NWTPH-Dx with acid silica gel cleanup	PAHs ¹ and PCP (EPA 8270E)	PAHs ¹ (EPA 8270E)	PCP (EPA 8041A)	Total Organic Carbon (SW 9060A)			Notes/Comments
OCM-1-CAP	06.29.2022	1220	Sediment	<i>3</i>						X			
OCM-1-MS	06.29.2022	1225	Sediment	<i>↓</i>	X	X	X			X			
OCM-2-CAP	06.29.2022	1235	Sediment	<i>↓</i>						X			
OCM-2-MS	06.29.2022	1240	Sediment	<i>↓</i>	X	X	X			X			

Comments/Special Instructions ¹ PAHs list to include 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, fluoranthene, naphthalene, phenanthrene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene).	Relinquished by: (Signature) <i>Brittany Davis</i>	Received by: (Signature) <i>Roman Wilko</i>	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: <i>BRITTANY DAVIS</i>	Printed Name: <i>Roman Wilko</i>	Printed Name:	Printed Name:
	Company: <i>GeoEngineers</i>	Company: <i>ARI</i>	Company:	Company:
	Date & Time: <i>6/30/22 @ 1055</i>	Date & Time: <i>6/30/22 1055</i>	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by work order or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer.



Cooler Receipt Form

ARI Client: Geo Engineers

Project Name: RG Haley PROI

COC No(s): _____ (NA)

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

Assigned ARI Job No: 22G0019

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were in tact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

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

Time 1055 -1.1 2.2

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

Temp Gun ID#: 2565

Cooler Accepted by: [Signature] Date: 6/30/22 Time: 1055

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

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

Samples Logged by: HAJ Date: 07/05/22 Time: 10:17 Labels checked by: _____

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



GeoEngineers

Project: RG Haley Site-Bellingham

17425 Union Hill Road Suite 250

Project Number: 0356-114-08

Reported:

Redmond, WA 98052

Project Manager: Brian Tracy

07/25/2022 17:44

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
22G0019-01	Z1A-1-SC_5.5-7.5	Solid	06/27/22 13:20	06/30/22 10:55
22G0019-02	Z1A-1-SC_7.5-9.5	Solid	06/27/22 13:25	06/30/22 10:55
22G0019-03	Z1A-2-SC_3.5-5.5	Solid	06/27/22 12:30	06/30/22 10:55
22G0019-04	Z1A-4-SC_3.5-5.5	Solid	06/28/22 10:40	06/30/22 10:55
22G0019-05	Z1A-4-SC_6.5-8.5	Solid	06/28/22 10:45	06/30/22 10:55
22G0019-06	Z1A-5-SC_2.5-4.5	Solid	06/28/22 11:40	06/30/22 10:55
22G0019-07	Z1A-7-SC_2.5-4.5	Solid	06/28/22 12:10	06/30/22 10:55
22G0019-08	Z1A-7-SC_4.5-6.5	Solid	06/28/22 12:15	06/30/22 10:55
22G0019-09	Z1A-10-SC_3.5-5.5	Solid	06/29/22 11:35	06/30/22 10:55
22G0019-10	Z1A-10-SC_6.5-8.5	Solid	06/29/22 11:40	06/30/22 10:55
22G0019-11	Z1A-11-SC_4.0-6.0	Solid	06/29/22 12:00	06/30/22 10:55
22G0019-12	OCM-1-CAP	Solid	06/29/22 12:20	06/30/22 10:55
22G0019-13	OCM-1-MS	Solid	06/29/22 12:25	06/30/22 10:55
22G0019-14	OCM-2-CAP	Solid	06/29/22 12:35	06/30/22 10:55
22G0019-15	OCM-2-MS	Solid	06/29/22 12:40	06/30/22 10:55
22G0019-16	Z1A-1-SC_5.5-7.5	Solid	06/27/22 13:20	06/30/22 10:55
22G0019-17	Z1A-1-SC_7.5-9.5	Solid	06/27/22 13:25	06/30/22 10:55
22G0019-18	Z1A-2-SC_3.5-5.5	Solid	06/27/22 12:30	06/30/22 10:55
22G0019-19	Z1A-4-SC_3.5-5.5	Solid	06/28/22 10:40	06/30/22 10:55
22G0019-20	Z1A-4-SC_6.5-8.5	Solid	06/28/22 10:45	06/30/22 10:55
22G0019-21	Z1A-5-SC_2.5-4.5	Solid	06/28/22 11:40	06/30/22 10:55
22G0019-22	Z1A-7-SC_2.5-4.5	Solid	06/28/22 12:10	06/30/22 10:55
22G0019-23	Z1A-7-SC_4.5-6.5	Solid	06/28/22 12:15	06/30/22 10:55
22G0019-24	Z1A-10-SC_3.5-5.5	Solid	06/29/22 11:35	06/30/22 10:55
22G0019-25	Z1A-10-SC_6.5-8.5	Solid	06/29/22 11:40	06/30/22 10:55
22G0019-26	Z1A-11-SC_4.0-6.0	Solid	06/29/22 12:00	06/30/22 10:55
22G0019-27	OCM-1-MS	Solid	06/29/22 12:25	06/30/22 10:55
22G0019-28	OCM-2-MS	Solid	06/29/22 12:40	06/30/22 10:55



GeoEngineers
17425 Union Hill Road Suite 250
Redmond WA, 98052

Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
25-Jul-2022 17:44

Case Narrative

Semivolatiles - EPA Method SW8270E

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

Initial and continuing calibrations were within method requirements with the exception of all associated "Q" flagged analytes which are out of control high in the ICVs and p-Terphenyl-d14, fluoranthene and 1,2-Dichlorobenzene-d4 are out of control high. All associated samples that contain analyte have been flagged with a "Q" qualifier.

Internal standard areas were within limits with the exception of Samples 22G0019-6,7,8,9,ms, msd showed <50% area for d10-phenanthrene.

Sample 22G0019-07 showed <50% area for d12-chrysene, d12-perylene and d4-di-n-octylphthalate and 22G0019-07RE show <50% area for d12-chrysene.

Sample 22G0019-08 showed >200% area for d12-perylene.

Samples 22G0019-1,4,15 show d10-phenanthrene at <50% area.

Samples 22G0019-5, 6re, 8re, and 15 show <50% area for d12-chrysene.

22G0019-09re2 and 04re1 showed <50% area for d10-acenaphthene.

22G0019-04re nd 15re showed <50% aea for d10-phenanthrene.

22G0019-15re showed < 50% area for d4-di-n-octylphthalate.

The surrogate percent recoveries were within control limits with the exception of surrogates flagged on the associated forms for samples 22G0019-6,13 and 15. Samples 22G0019-06 and 22G0019-15 were re-analyzed with surrogate recoveries in control.

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

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

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits with the exception of analytes flagged on the associated forms.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

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

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

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

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

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



GeoEngineers
17425 Union Hill Road Suite 250
Redmond WA, 98052

Project: RG Haley Site-Bellingham
Project Number: 0356-114-08
Project Manager: Brian Tracy

Reported:
25-Jul-2022 17:44

Case Narrative

Wet Chemistry

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

Initial and continuing calibrations were within method requirements.

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

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

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



QUALIFIERS AND NOTES

<u>Qualifier</u>	<u>Definition</u>
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
Q	Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20% RSD, <20% drift or minimum RRF)
NRS	This surrogate not reported due to chromatographic interference
M	Estimated value for a GC/MS analyte detected and confirmed by an analyst but with low spectral match parameters.
J	Estimated concentration value detected below the reporting limit.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
D1	Surrogate was not detected due to sample extract dilution
D	The reported value is from a dilution
*	Flagged value is not within established control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



Form I
ORGANIC ANALYSIS DATA SHEET

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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-01 A

SDG: 22G0019

Sampled: 06/27/22 13:20

Prepared: 07/07/22 10:01

File ID: NT1022071509.D

% Solids: 23.66

Preparation: EPA 3546 (Microwave)

Analyzed: 07/15/22 17:23

Batch: BKG0069

Sequence: SKG0154

Initial/Final: 20.03 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	5	299	D	44.7	211
91-57-6	2-Methylnaphthalene	5	211	J, D	47.6	211
83-32-9	Acenaphthene	5	55.1	U	55.1	211
87-86-5	Pentachlorophenol	5	8140	M, Q, D	330	1060
85-01-8	Phenanthrene	5	522	D	92.0	211
206-44-0	Fluoranthene	5	316	M, Q, D	64.3	211
56-55-3	Benzo(a)anthracene	5	168	J, D	62.9	211
218-01-9	Chrysene	5	383	M, Q, D	63.9	211
205-99-2	Benzo(b)fluoranthene	5	134	J, D	74.1	211
207-08-9	Benzo(k)fluoranthene	5	90.1	J, D	52.9	211
50-32-8	Benzo(a)pyrene	5	220	D	44.6	211
193-39-5	Indeno(1,2,3-cd)pyrene	5	164	J, D	155	211
53-70-3	Dibenzo(a,h)anthracene	5	182	U	182	211
90-12-0	1-Methylnaphthalene	5	574	M, D	55.5	211

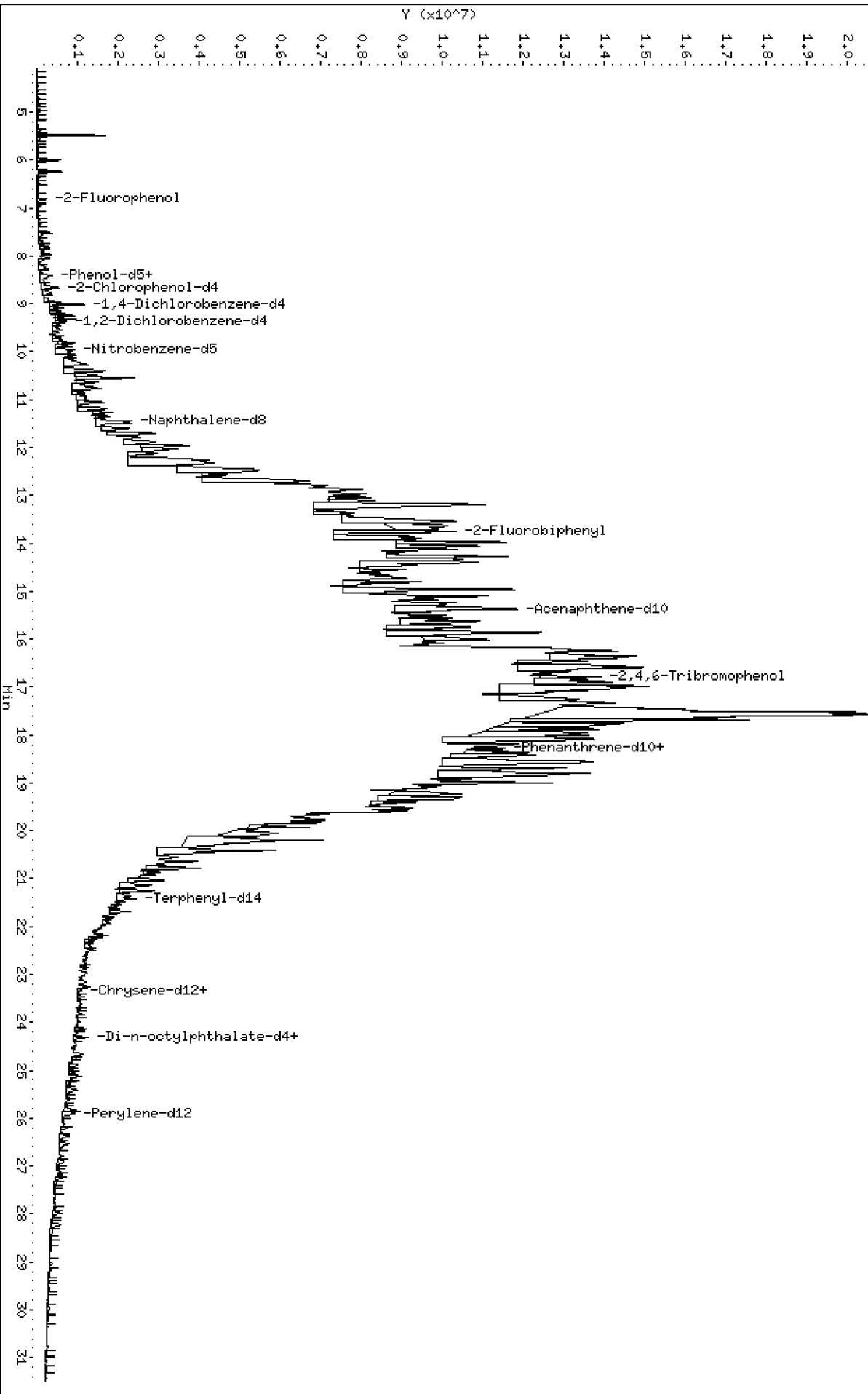
SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	1582.6	1280	80.8	27 - 120	
Phenol-d5	1582.6	1080	68.0	29 - 120	
2-Chlorophenol-d4	1582.6	1460	92.5	31 - 120	
1,2-Dichlorobenzene-d4	1055.1	1030	97.2	32 - 120	
Nitrobenzene-d5	1055.1	1100	104	30 - 120	
2-Fluorobiphenyl	1055.1	1050	99.3	35 - 120	
2,4,6-Tribromophenol	1582.6	1420	89.5	24 - 134	
p-Terphenyl-d14	1055.1	1020	97.1	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220715.6\NT1022071509.D
Date: 15-JUL-2022 17:23
Client ID:
Sample Info: 2200019-01.5

Column phase: ZB-5msi

Instrument: nt10.1
Operator: VTS
Column diameter: 0.25

\\target\share\chem3\nt10.1\20220715.6\NT1022071509.D



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-01,5

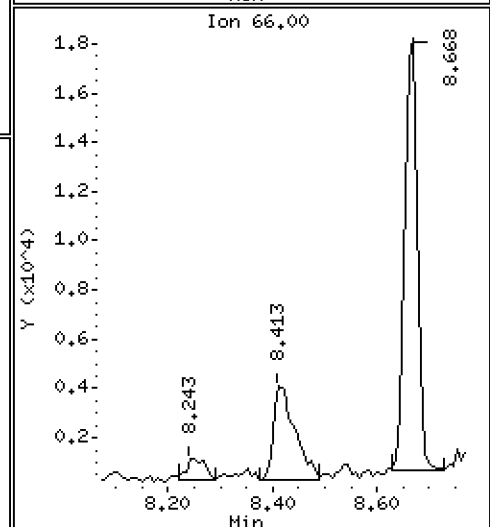
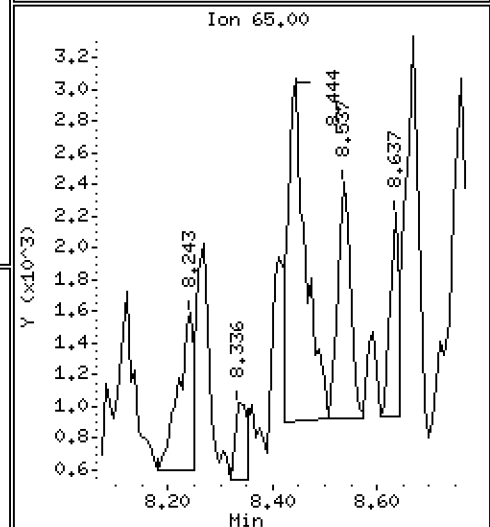
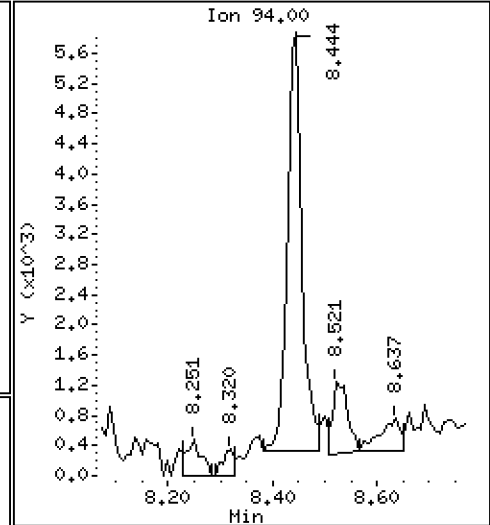
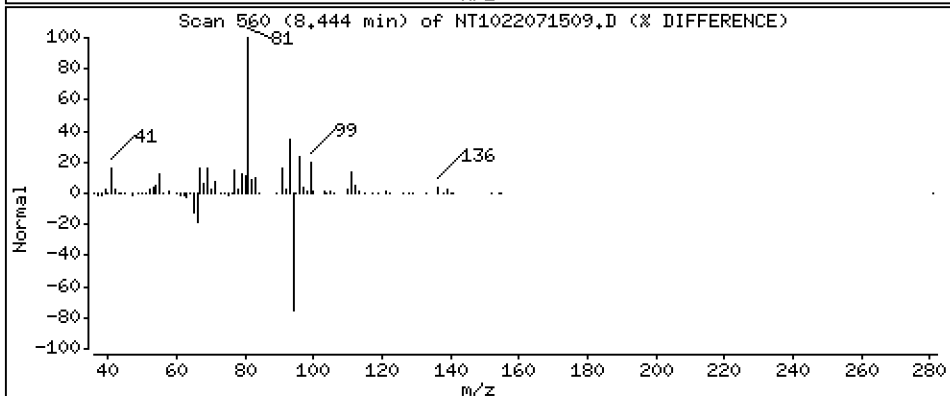
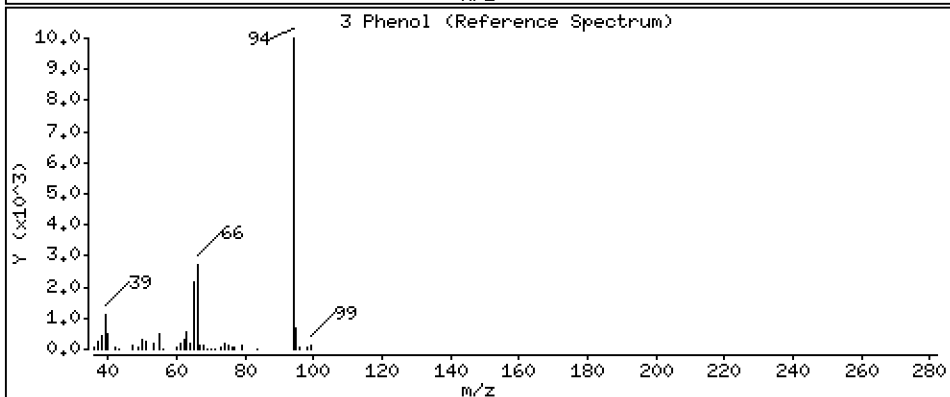
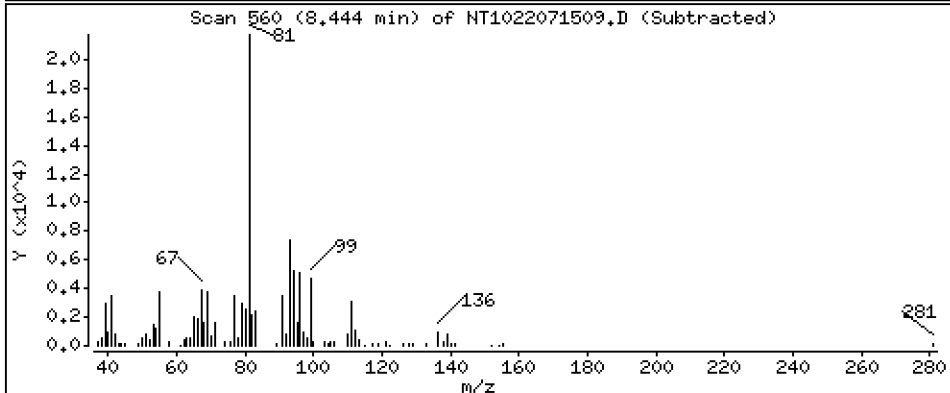
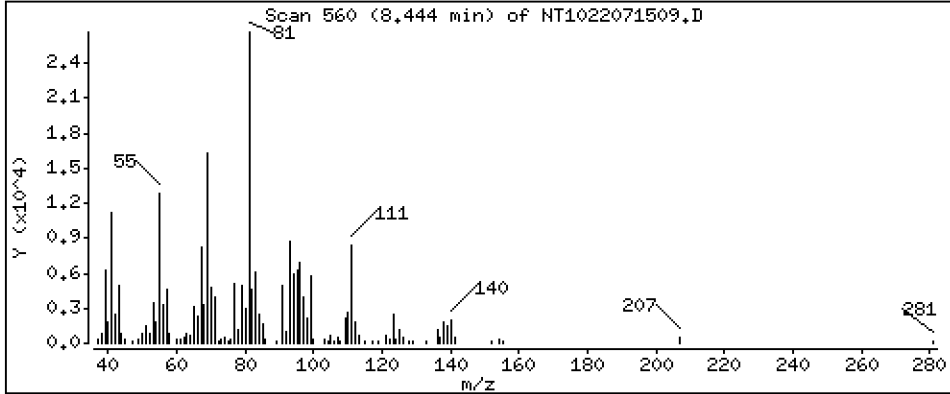
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,4662 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-01,5

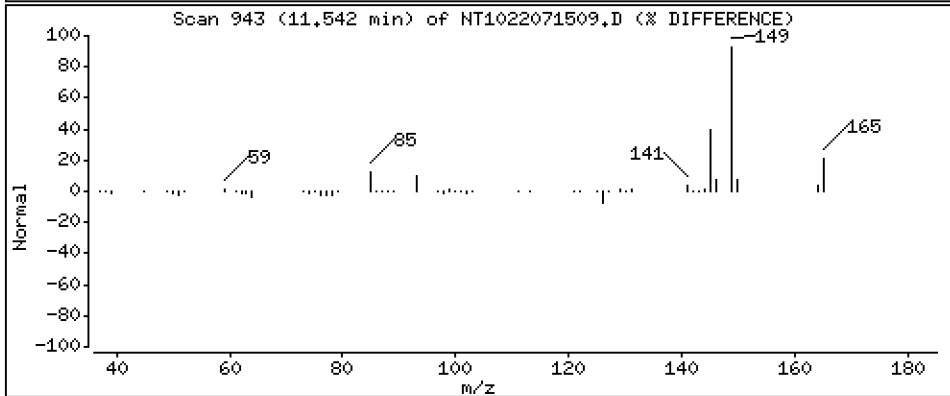
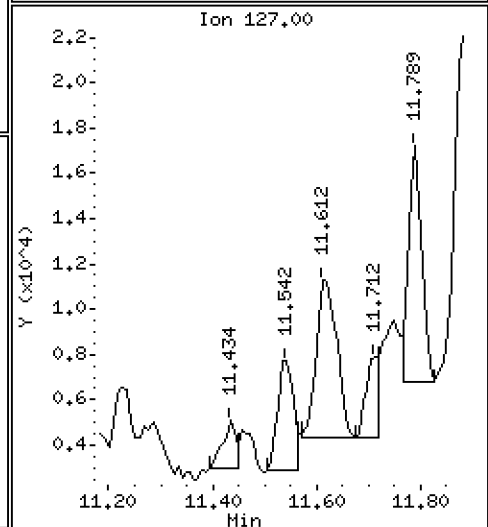
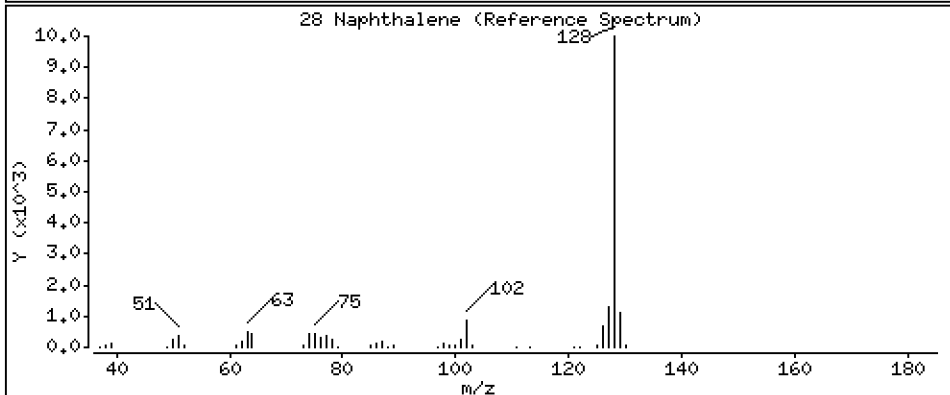
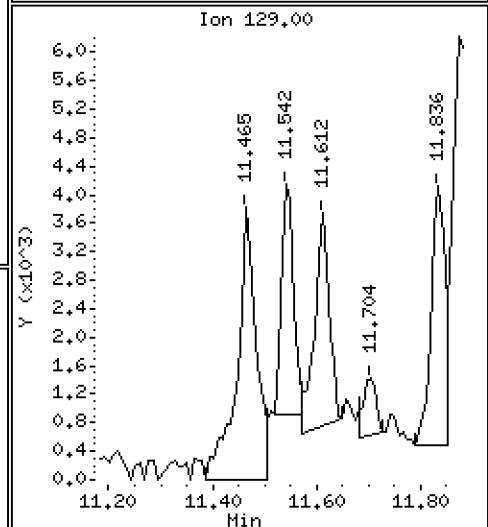
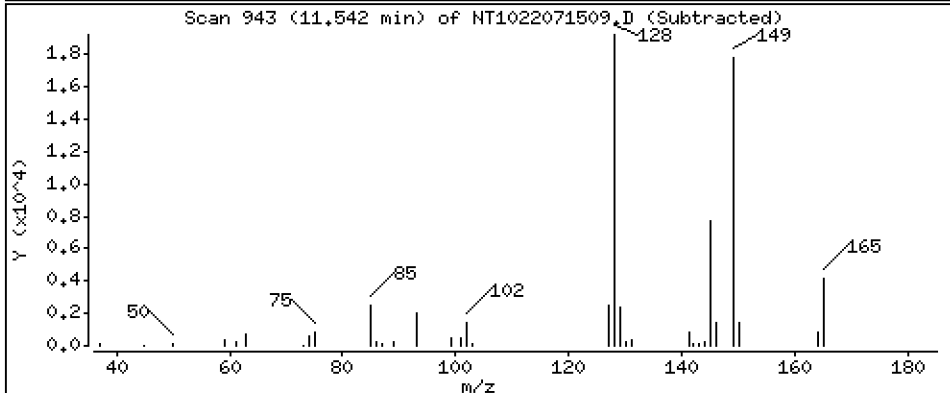
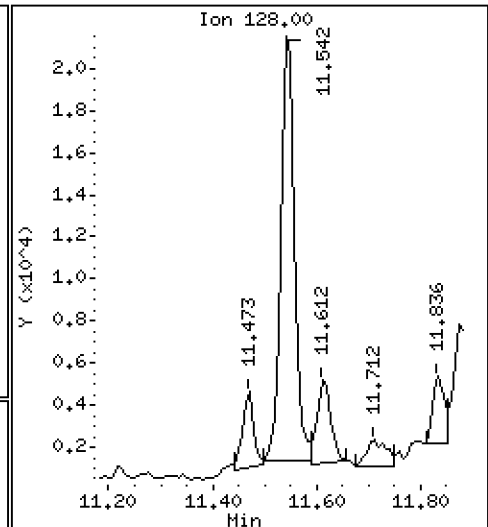
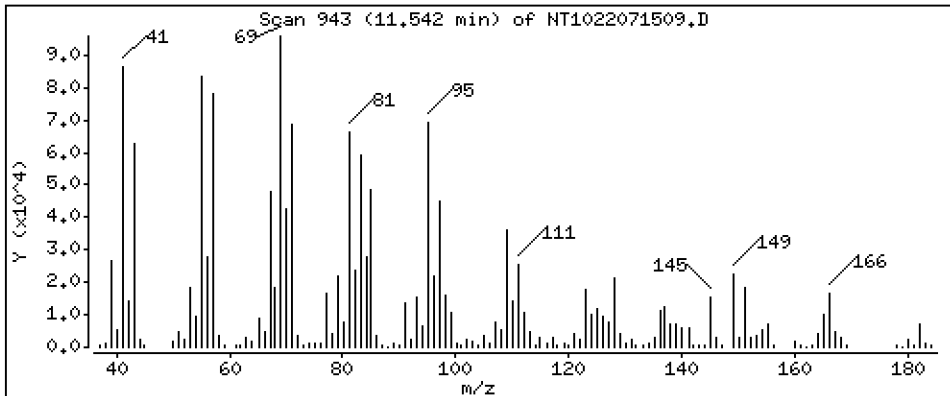
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 1,415 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 2200019-01,5

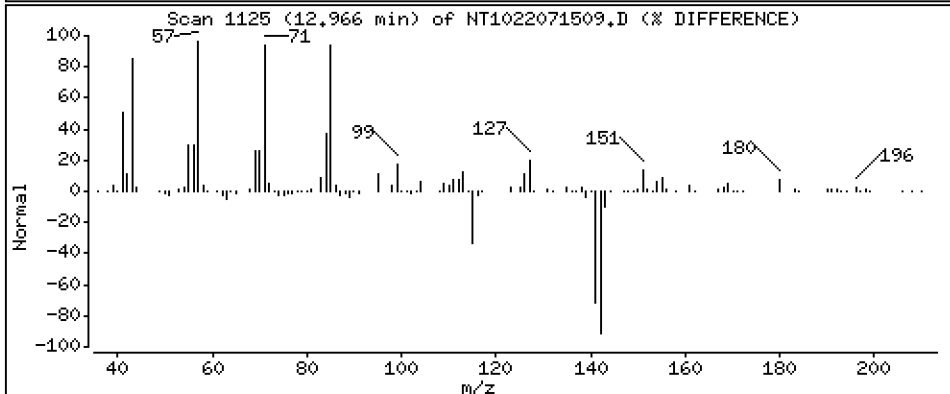
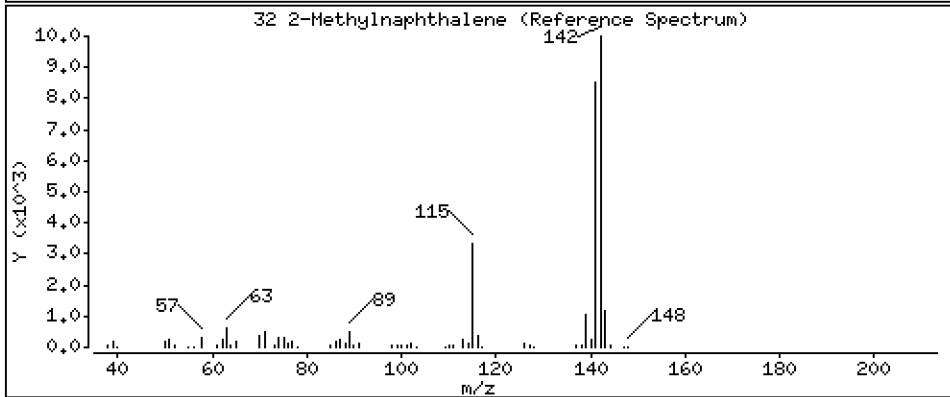
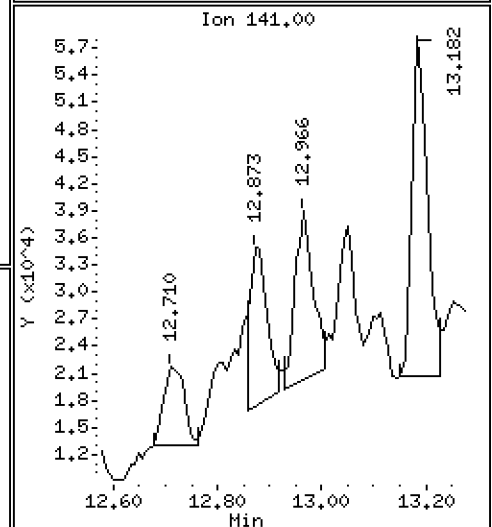
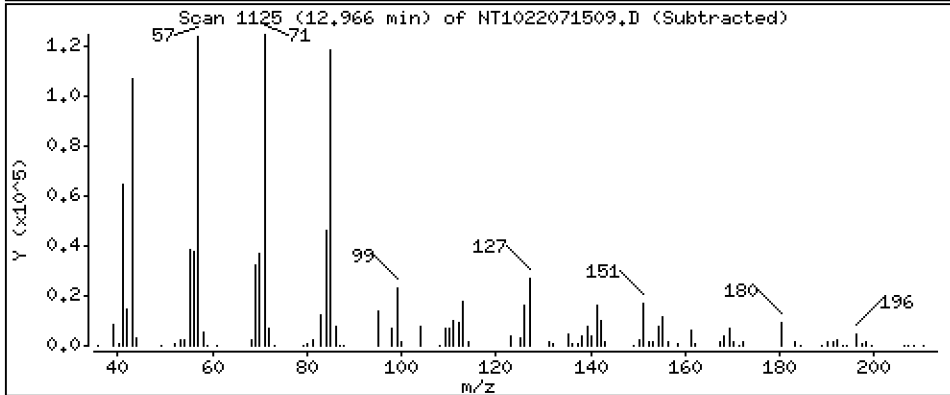
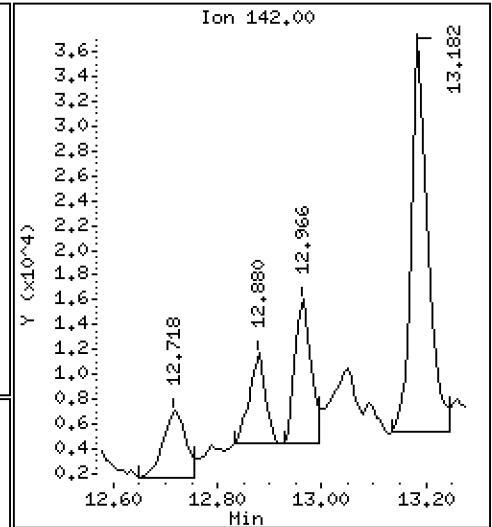
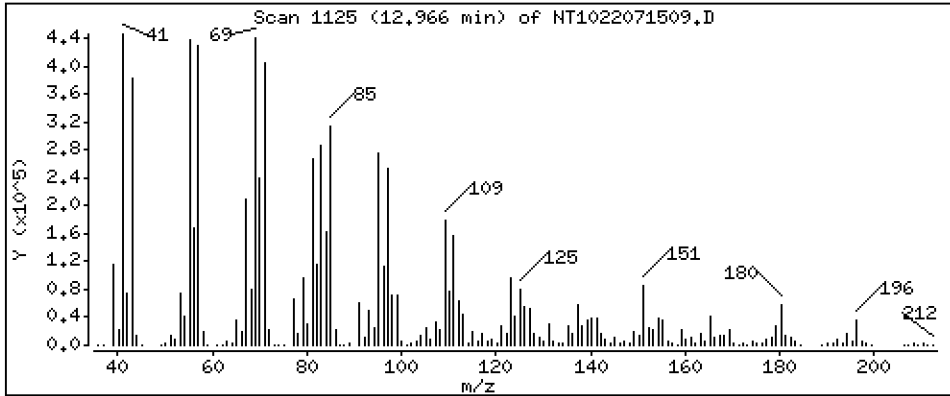
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,9988 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-01,5

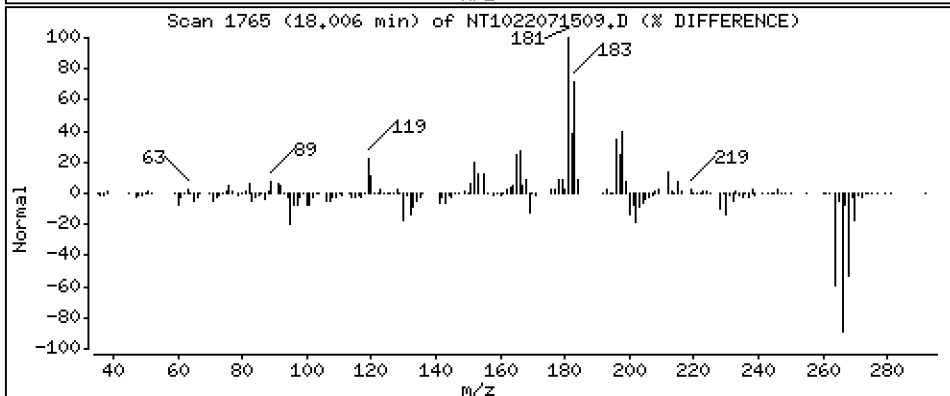
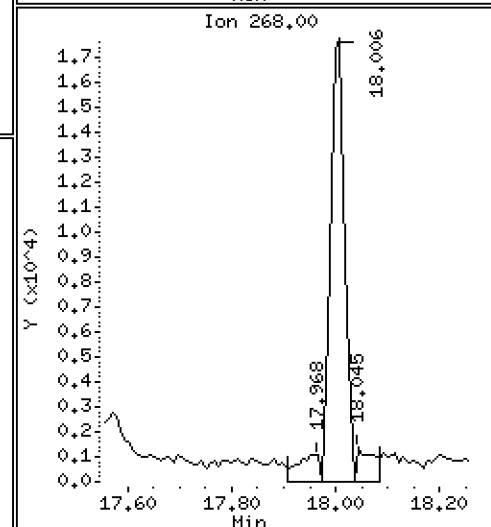
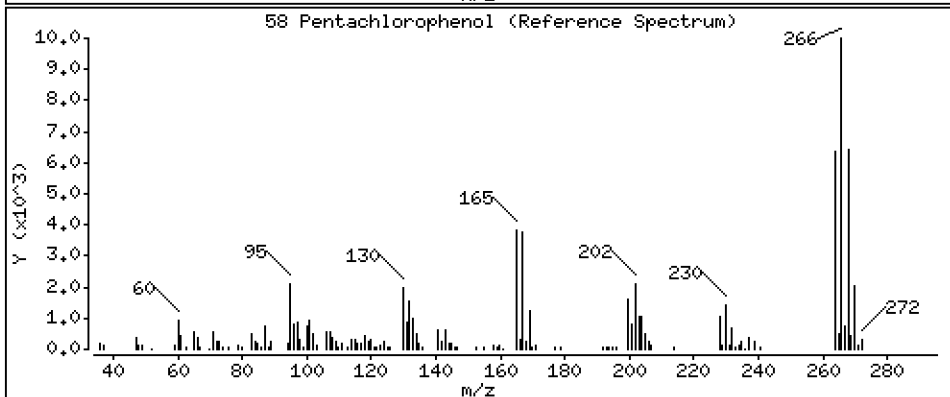
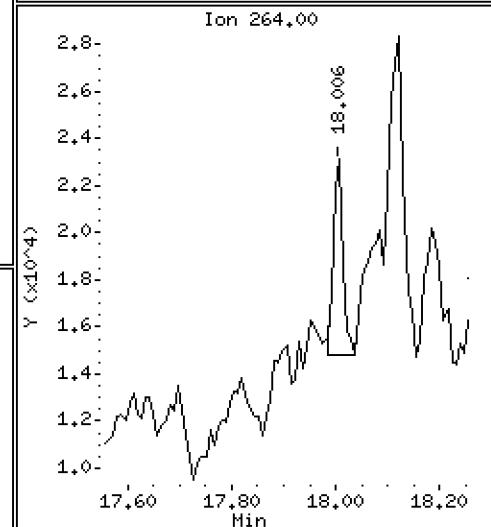
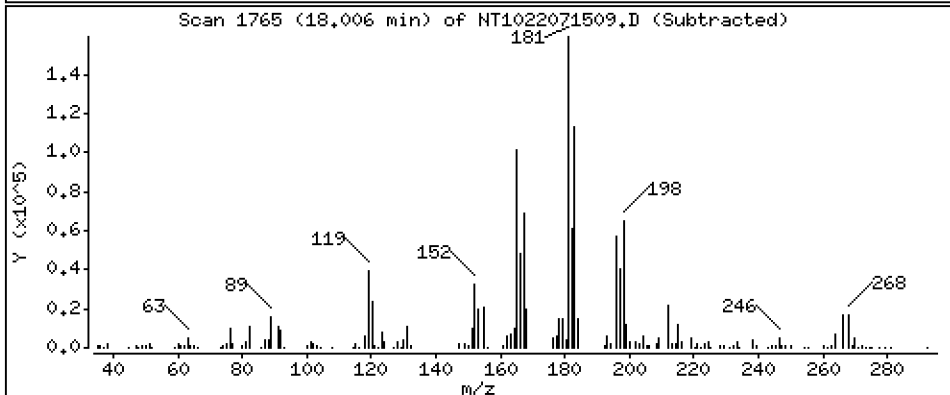
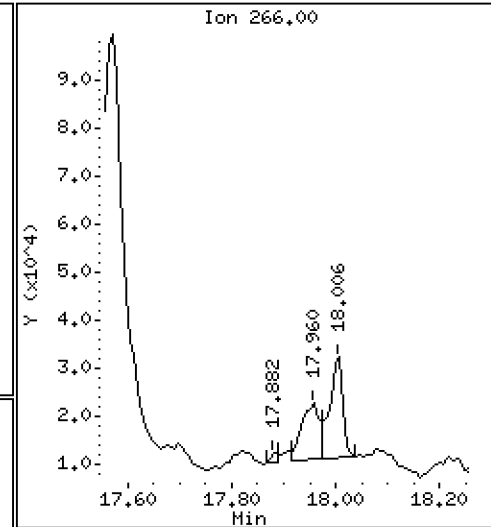
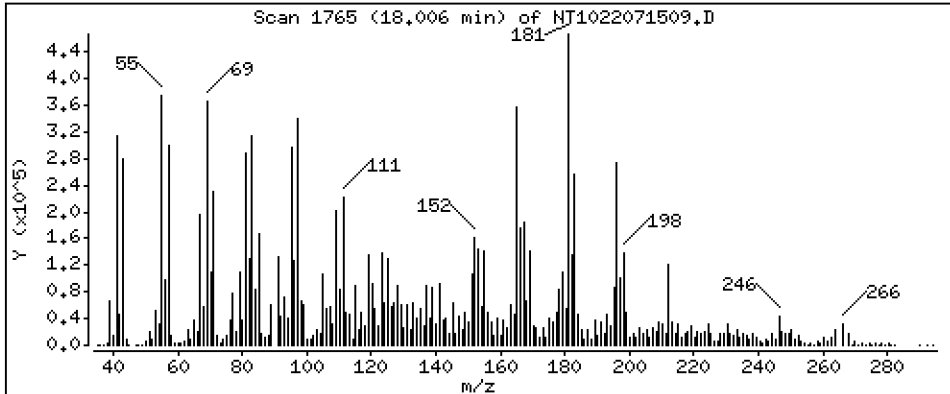
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 38,57 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-01,5

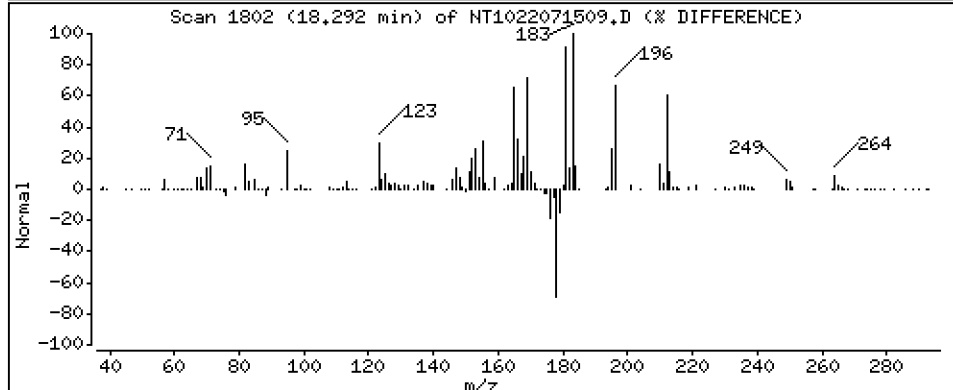
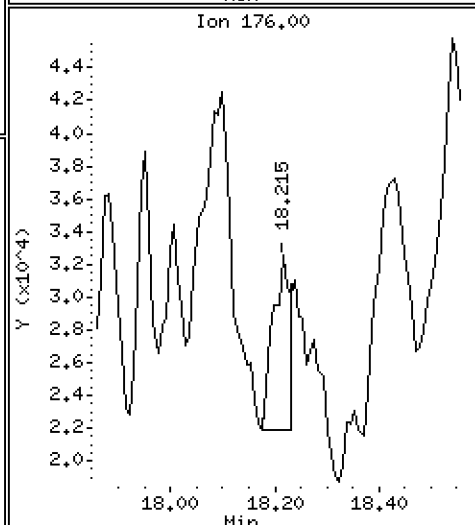
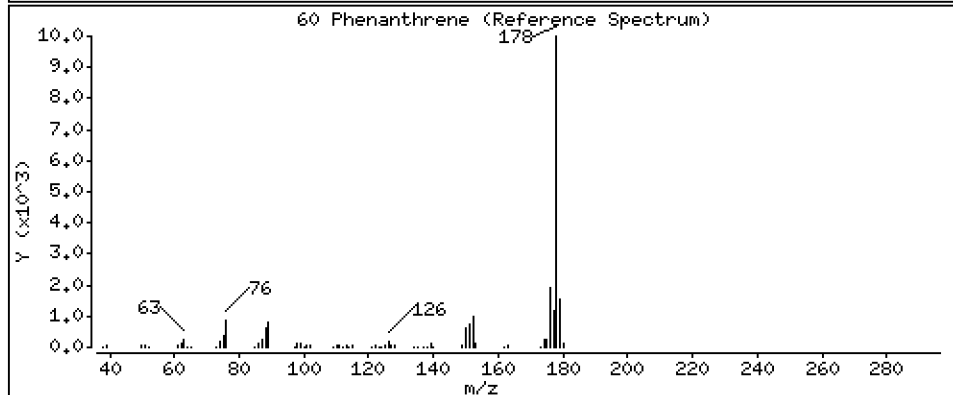
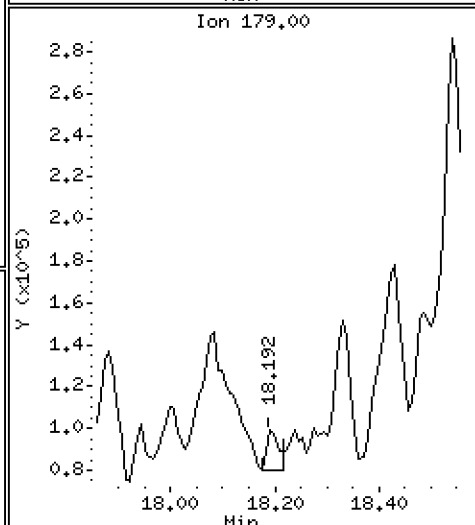
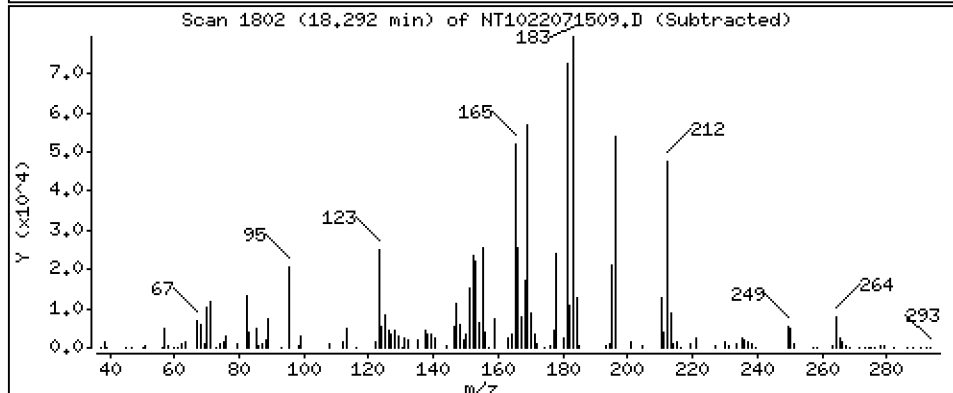
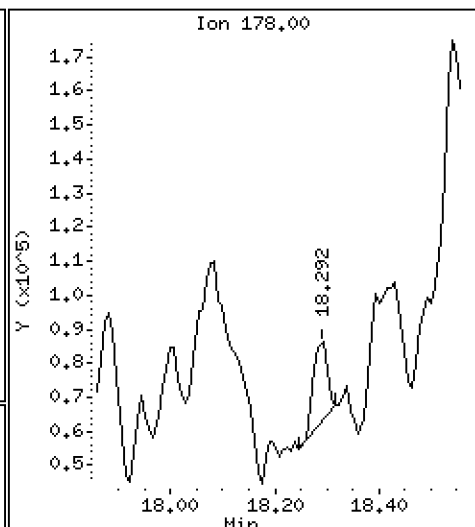
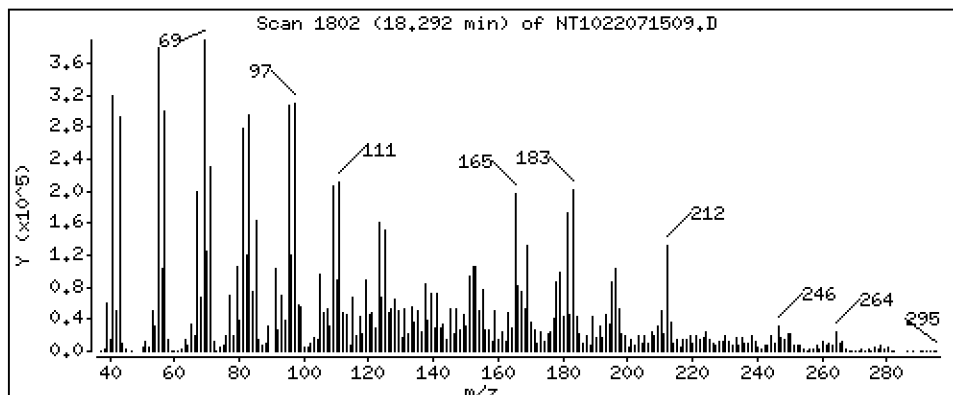
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 2,473 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-01,5

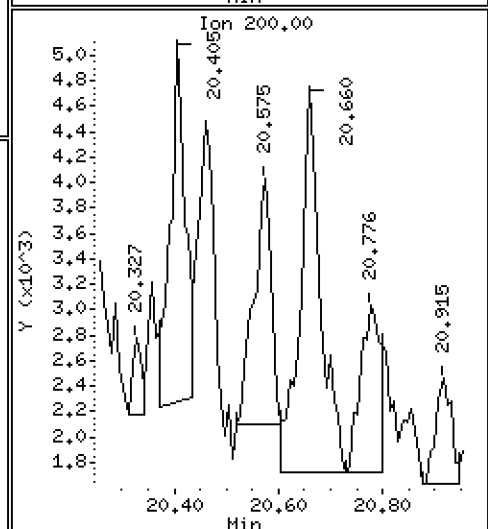
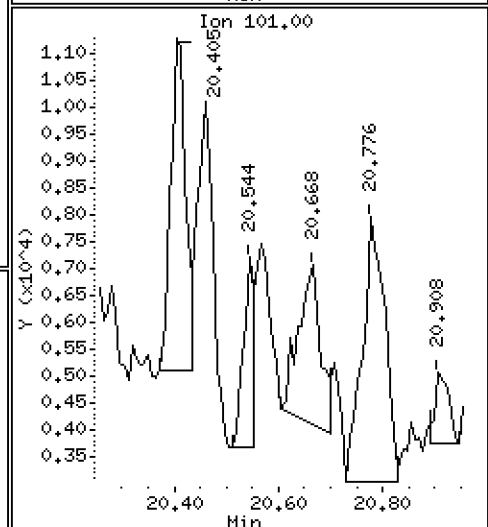
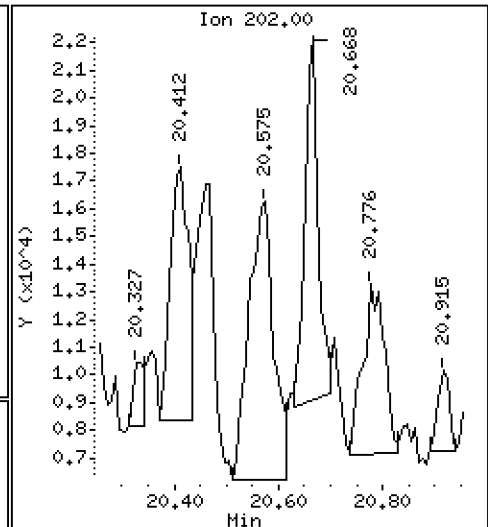
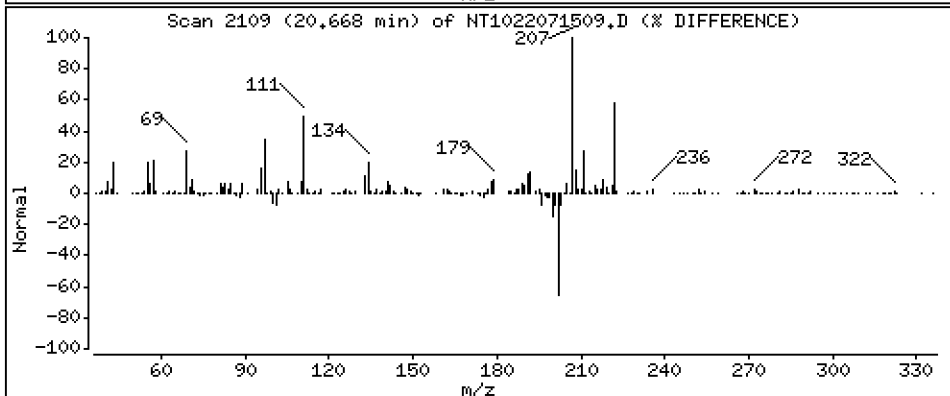
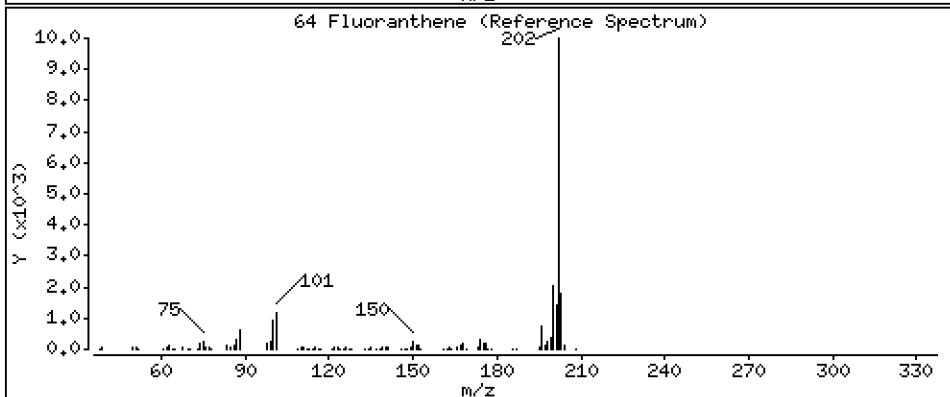
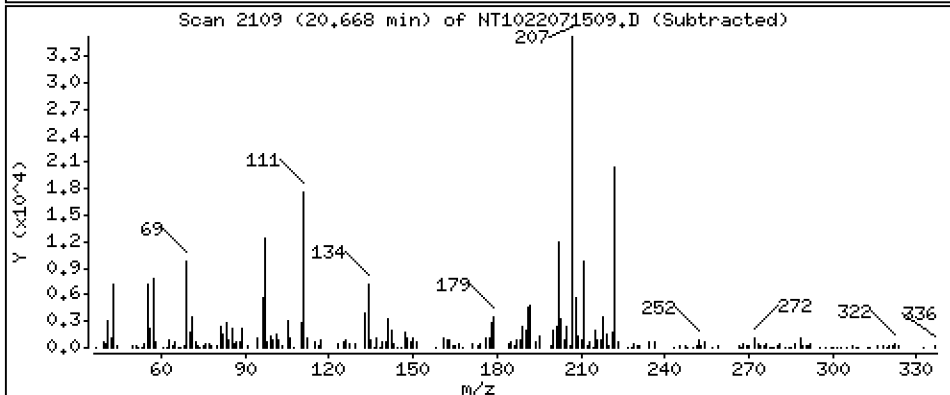
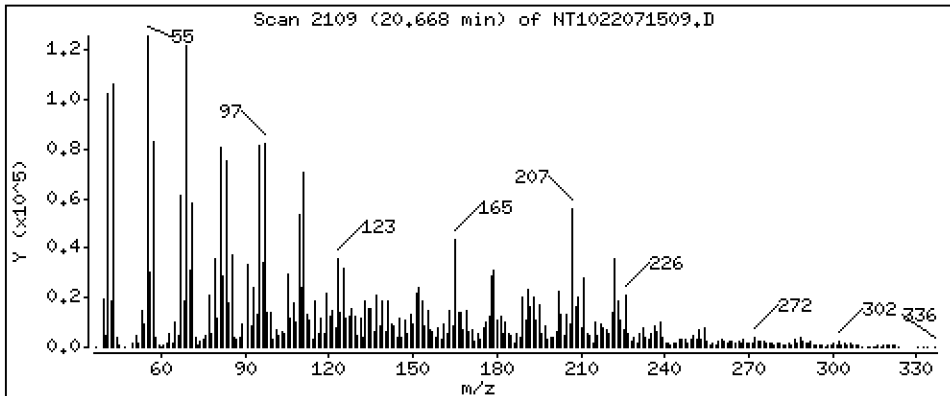
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 1,498 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 2200019-01,5

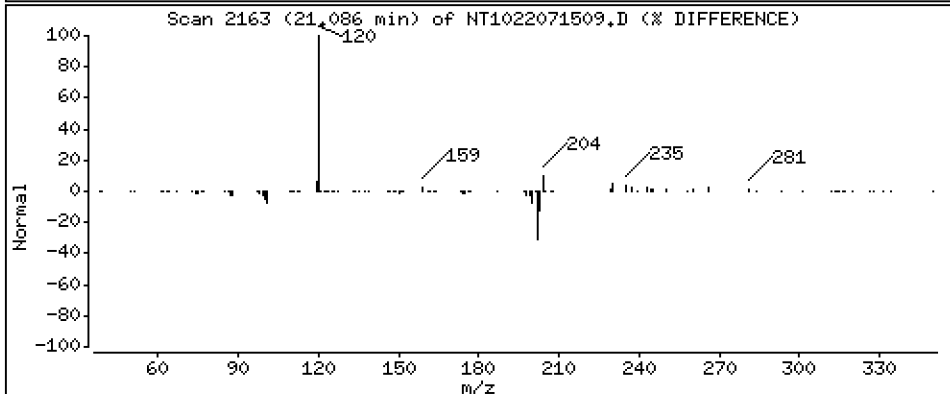
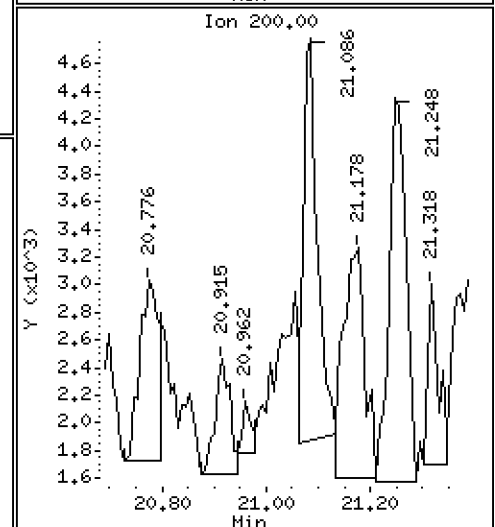
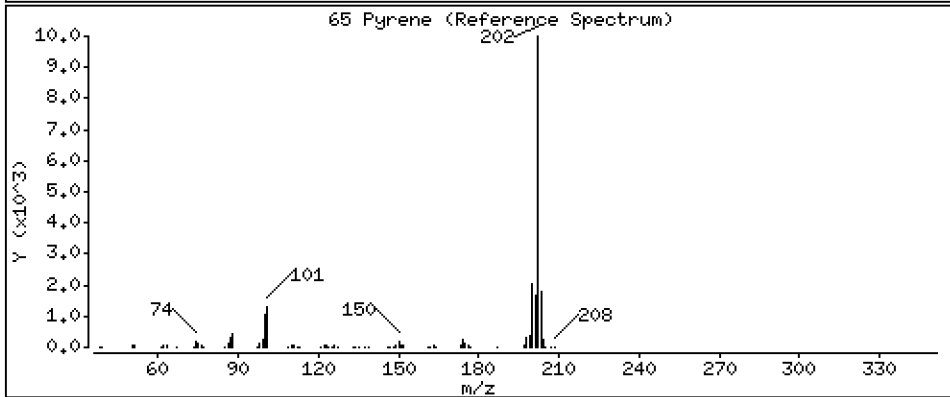
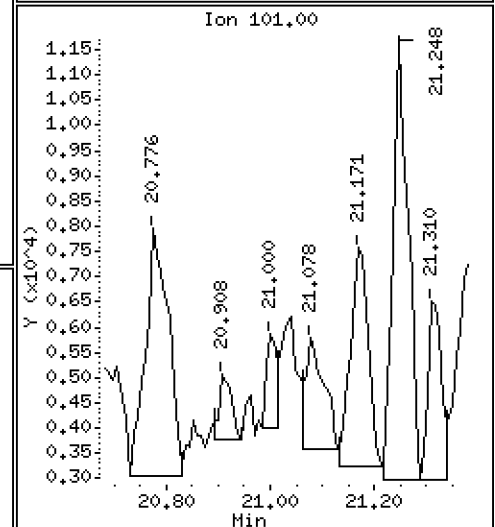
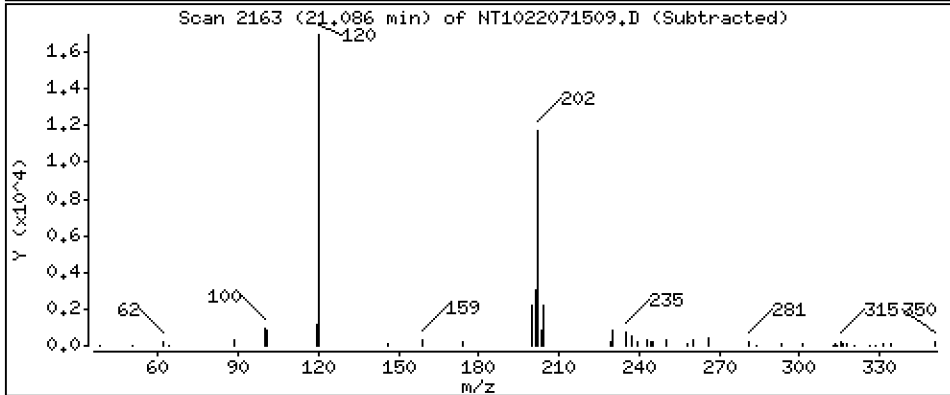
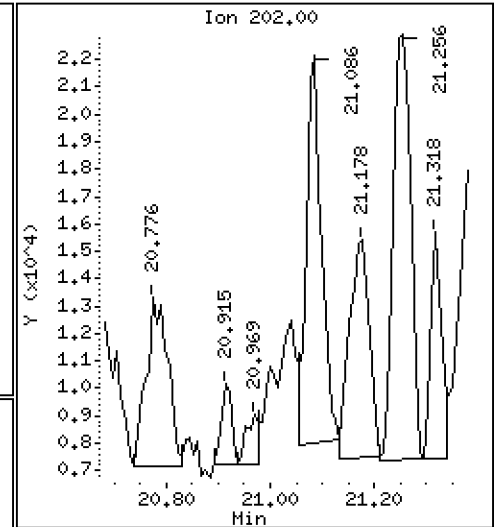
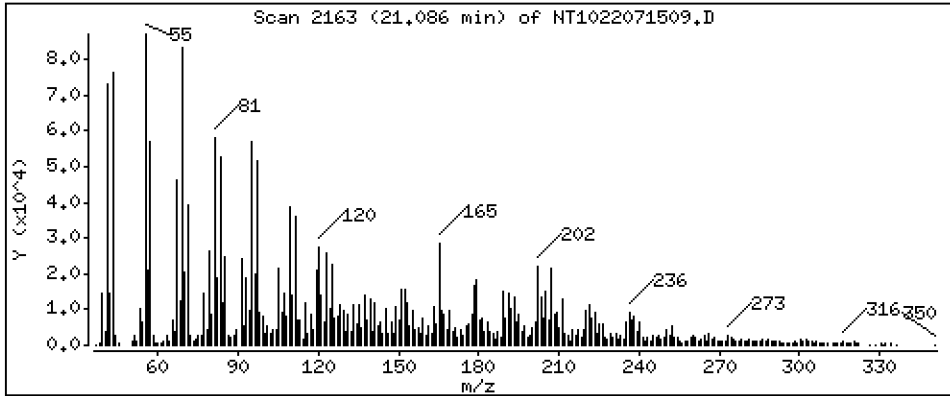
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 2,165 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 2200019-01,5

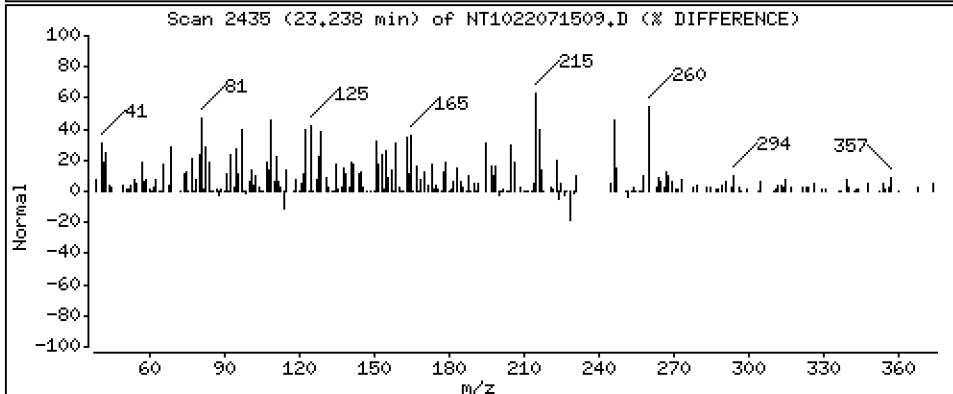
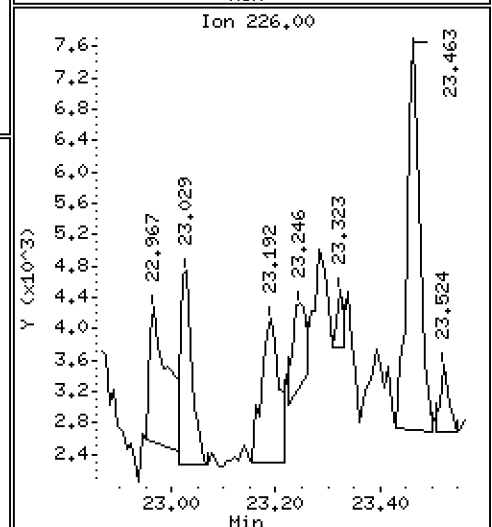
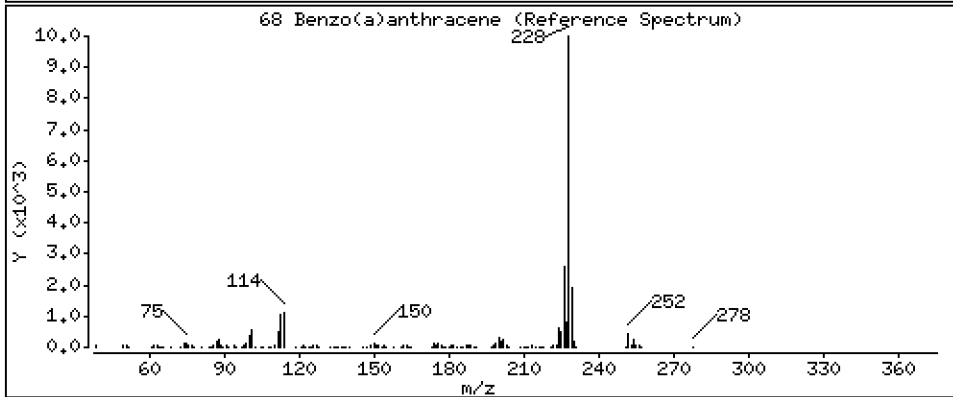
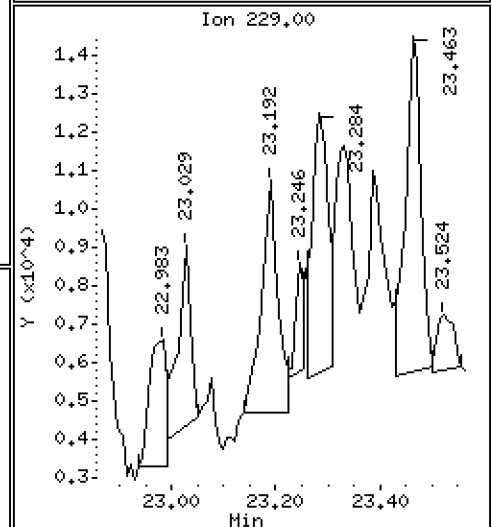
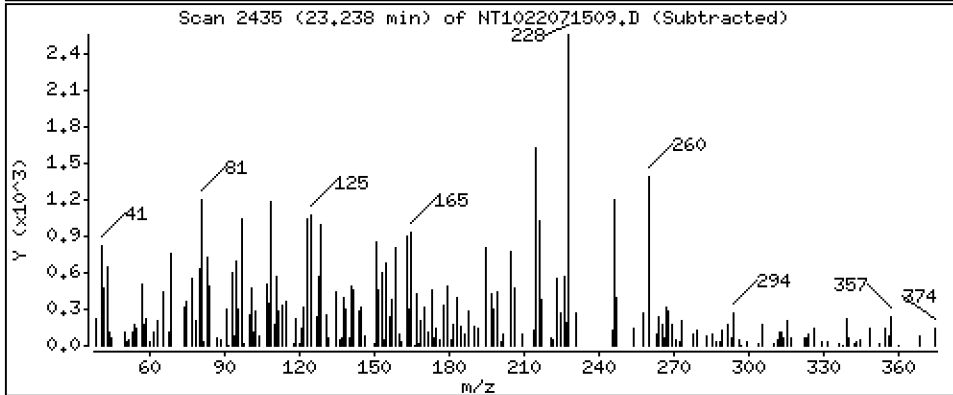
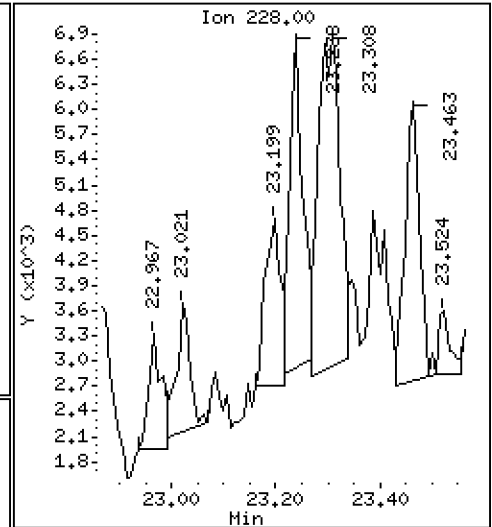
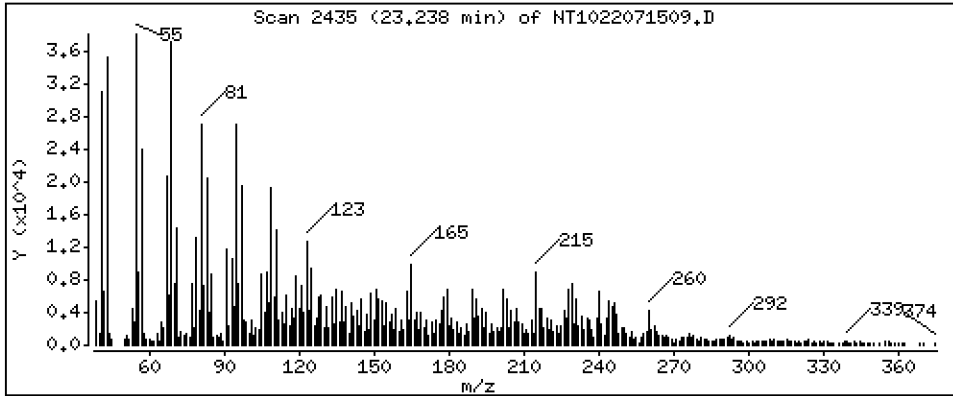
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,7962 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-01,5

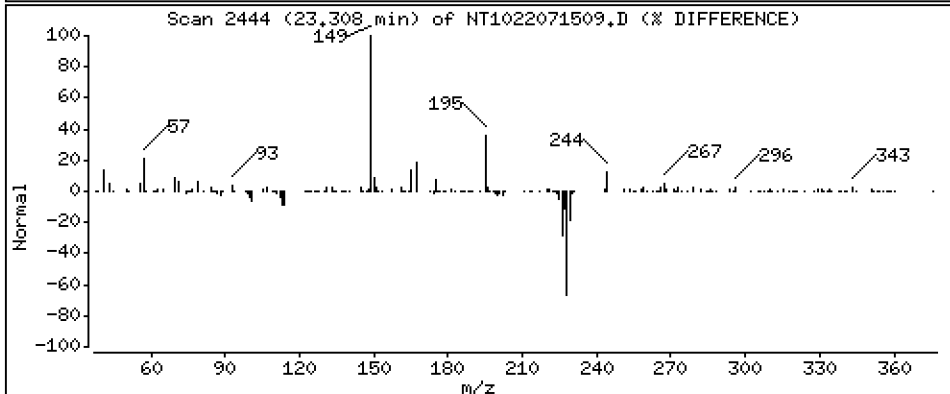
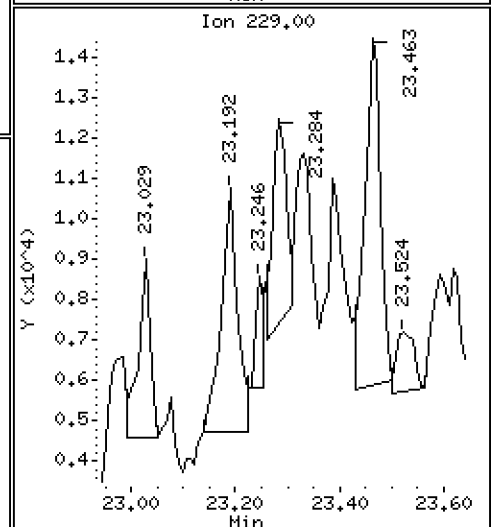
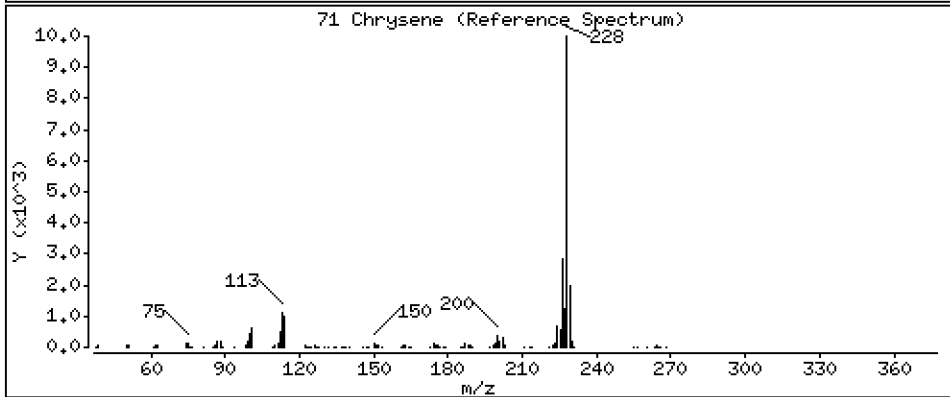
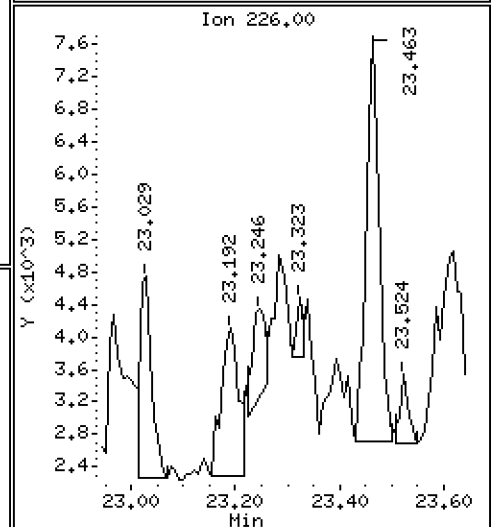
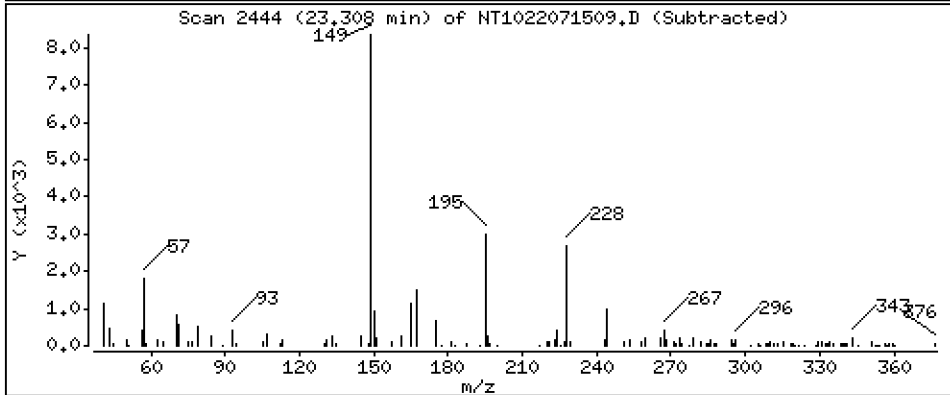
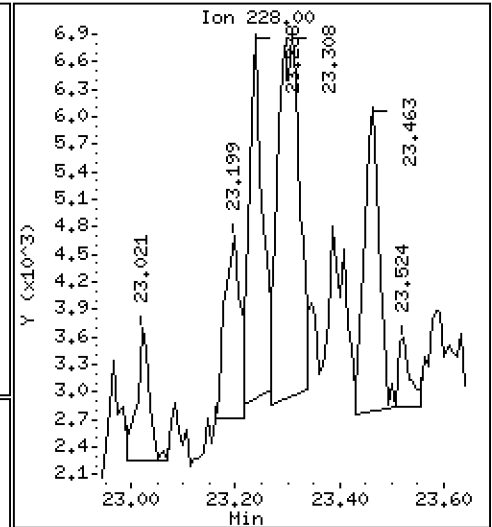
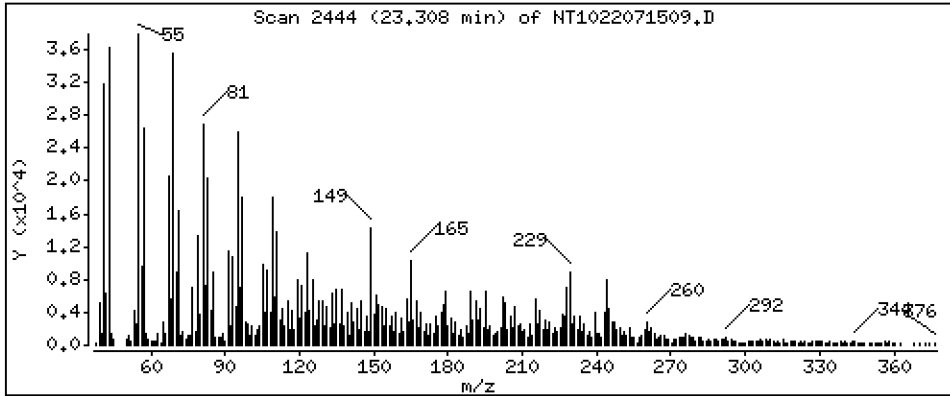
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,814 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-01,5

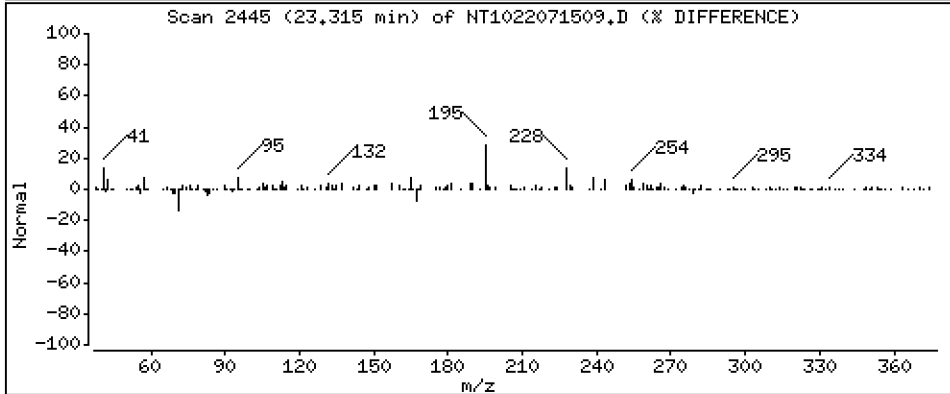
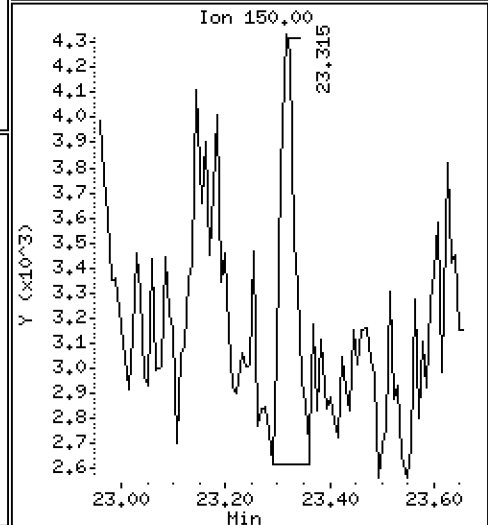
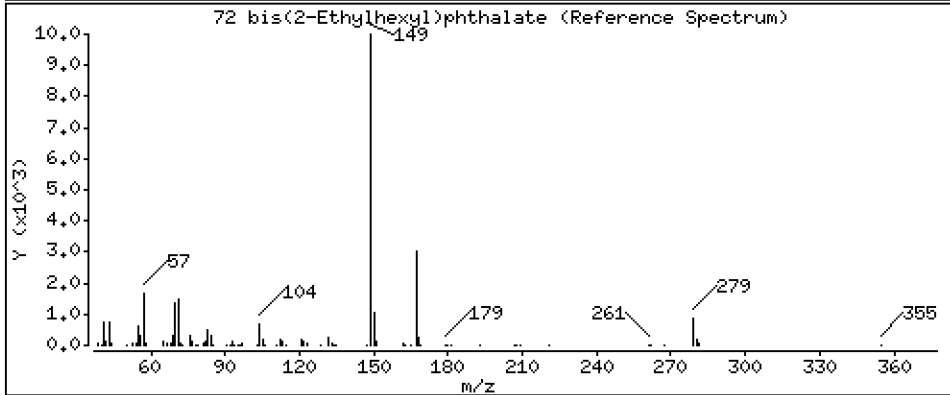
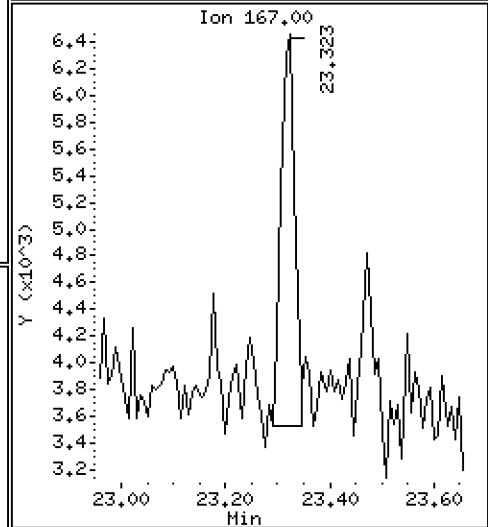
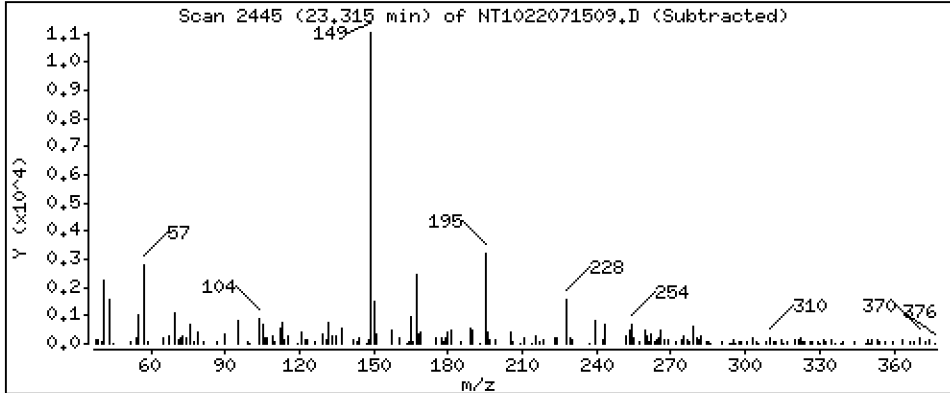
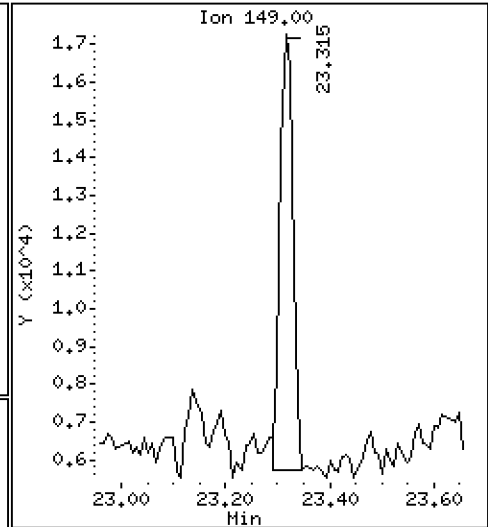
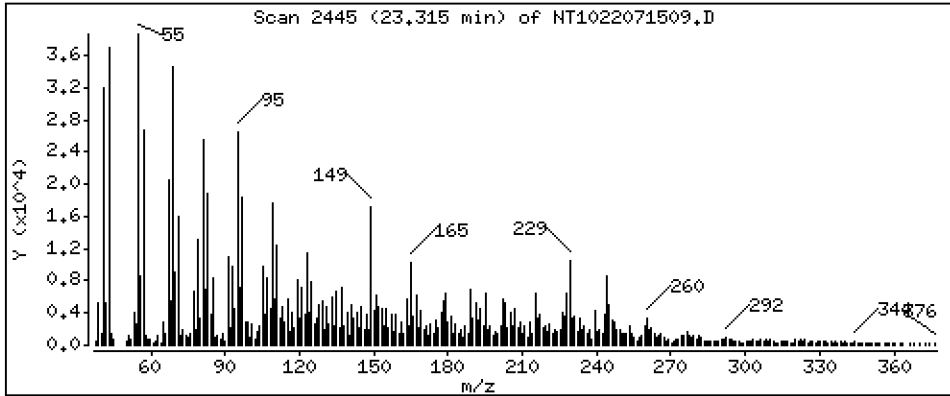
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 3,716 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-01,5

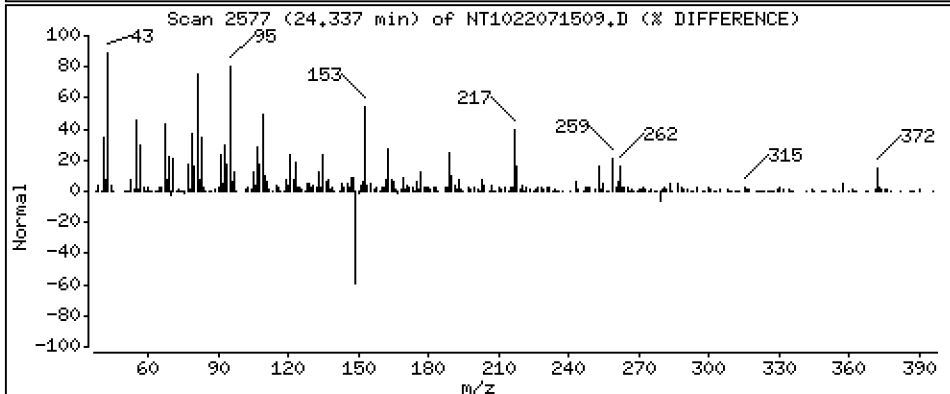
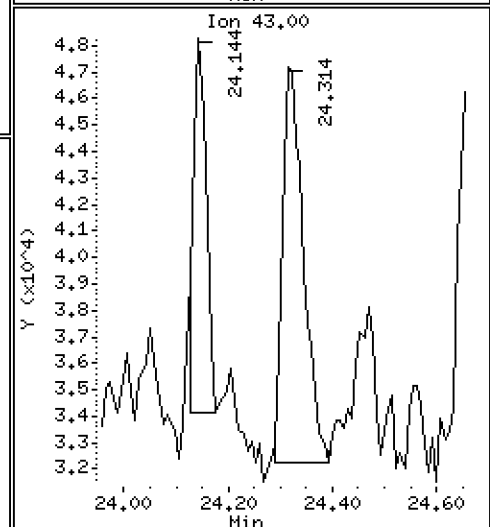
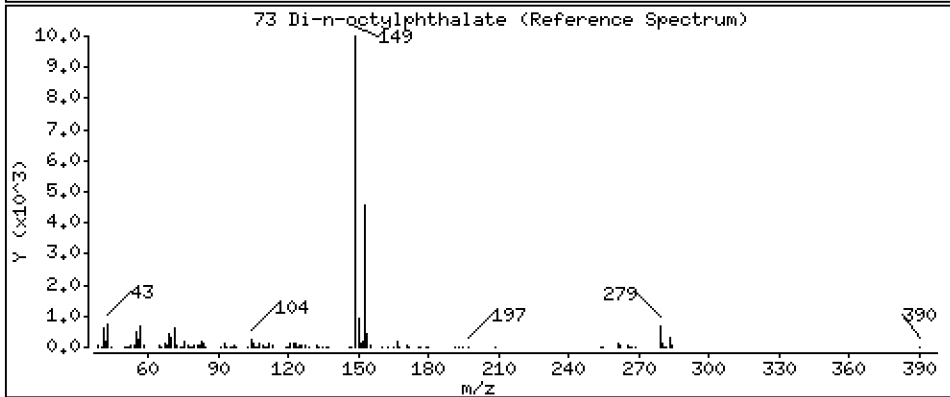
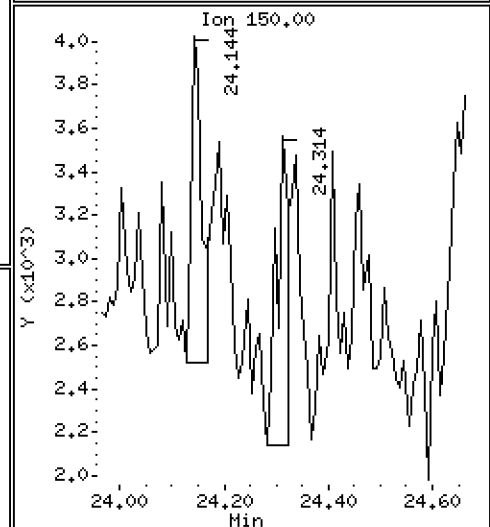
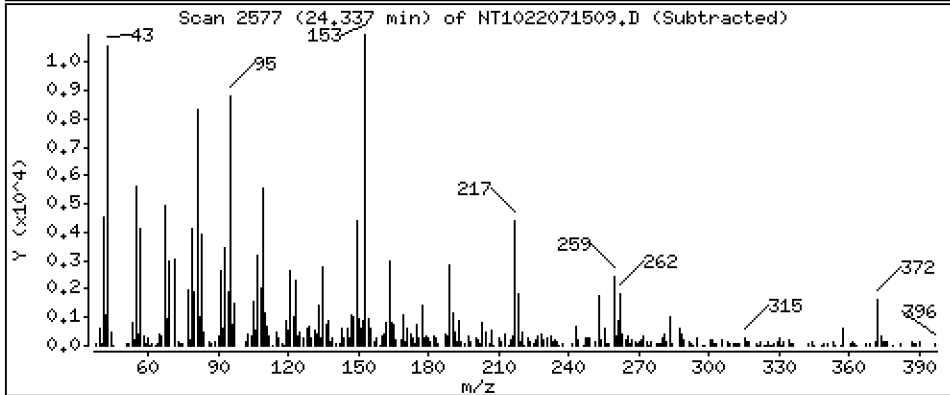
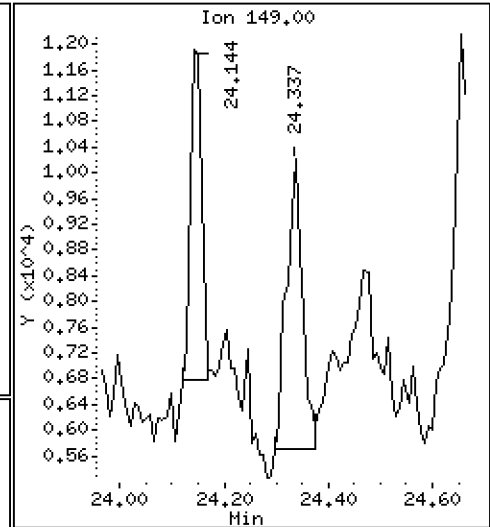
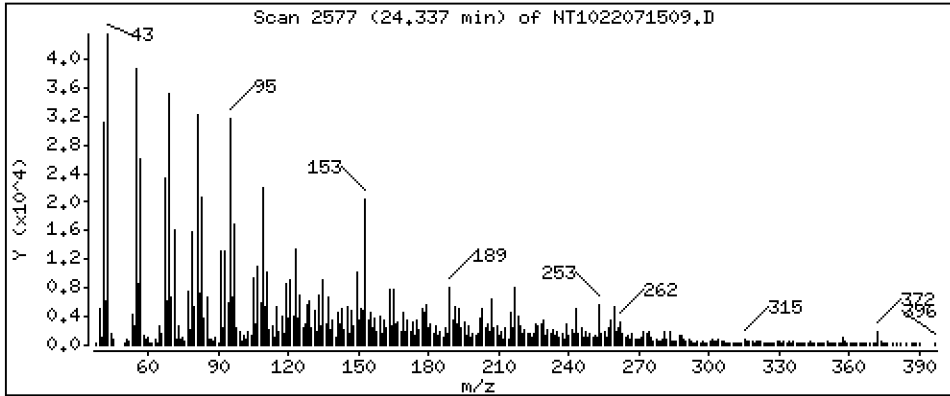
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,9033 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 2200019-01,5

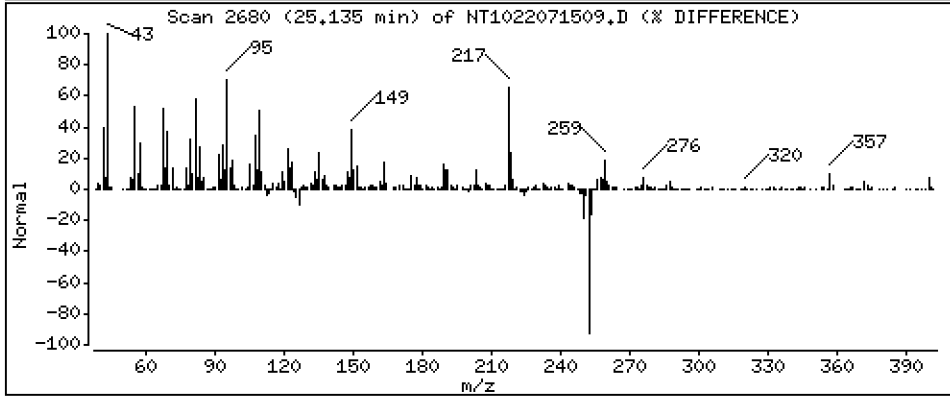
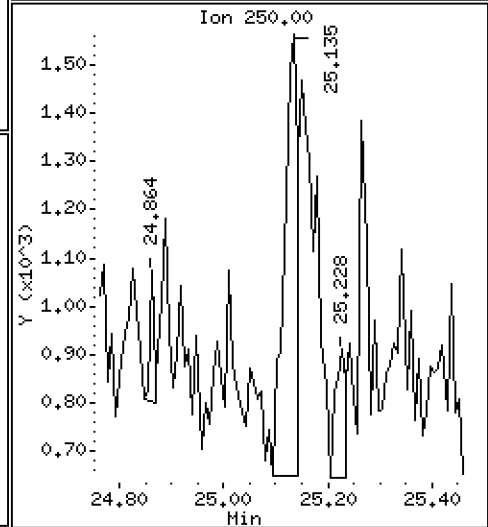
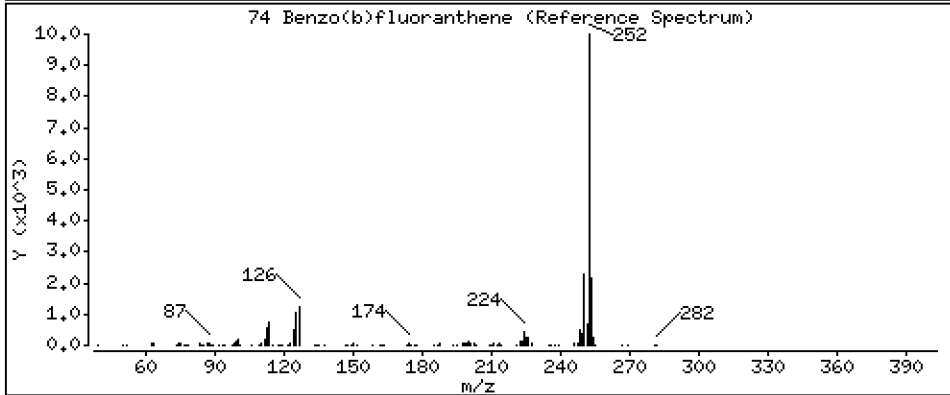
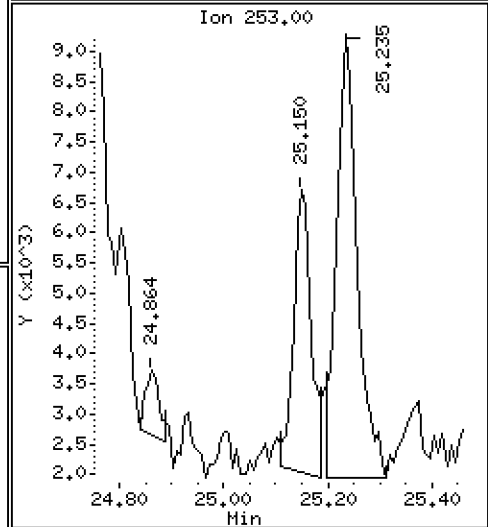
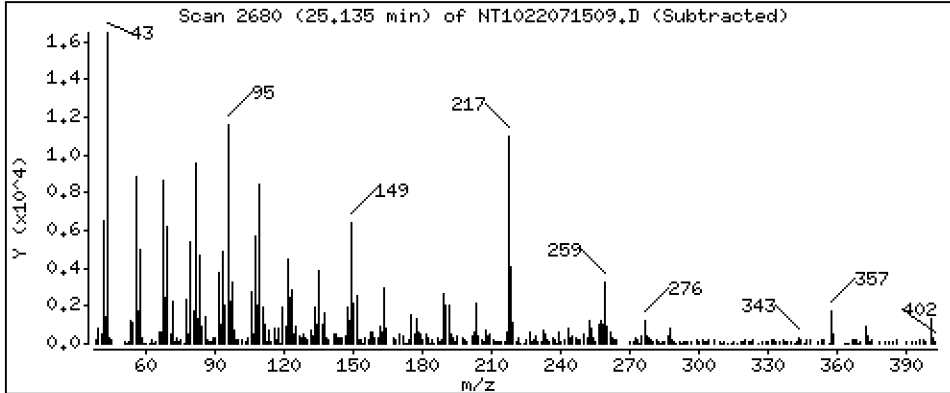
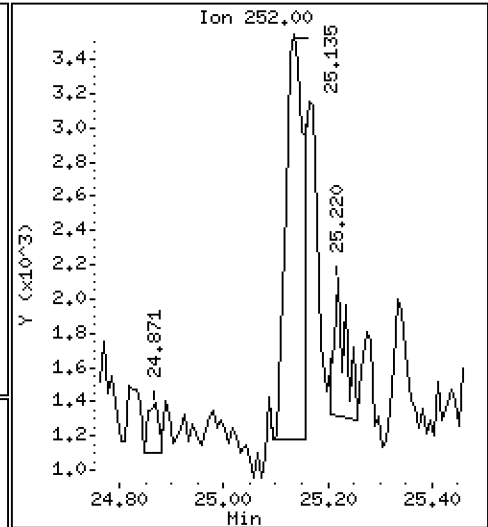
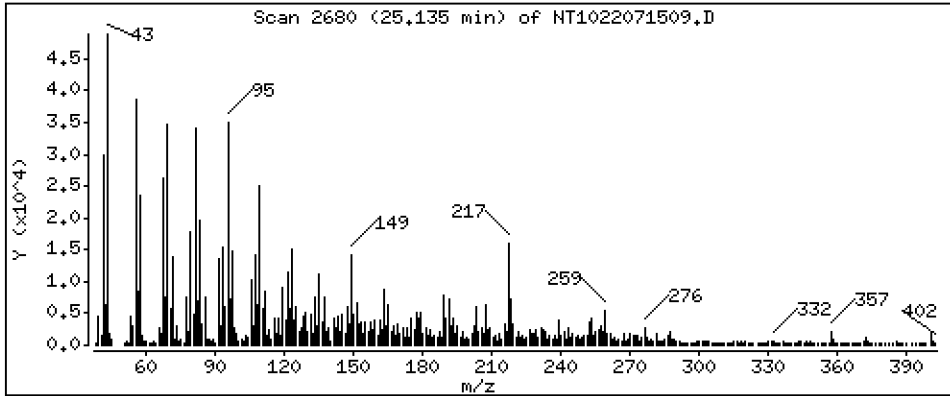
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,6336 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-01,5

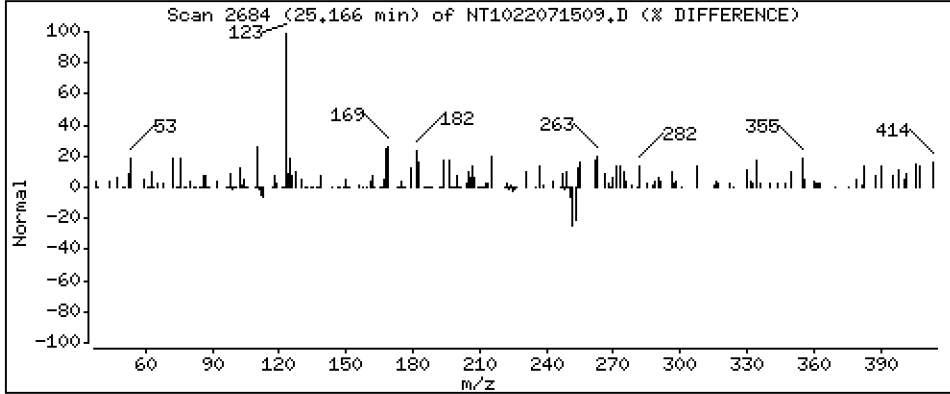
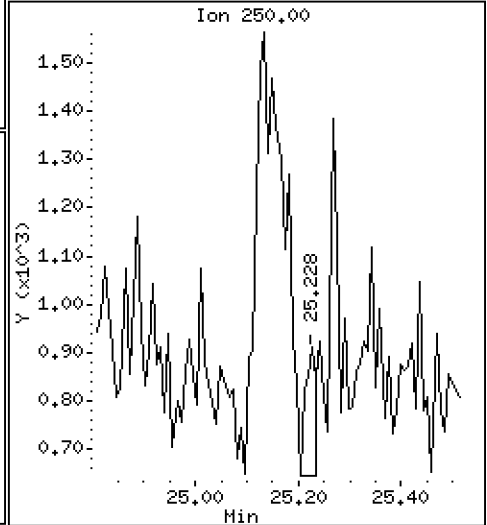
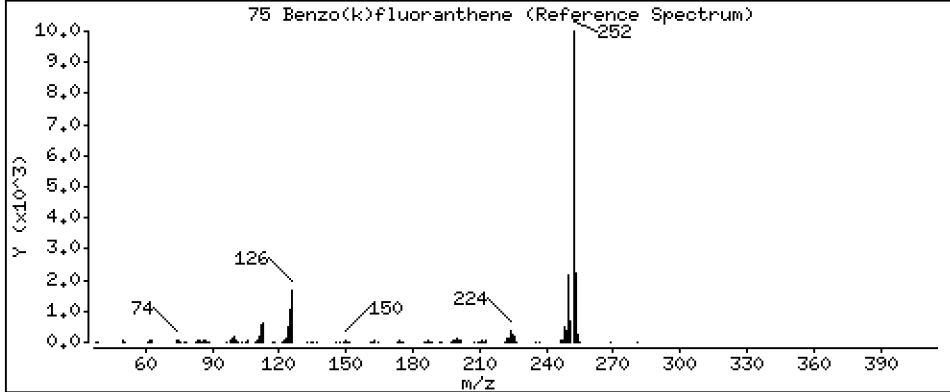
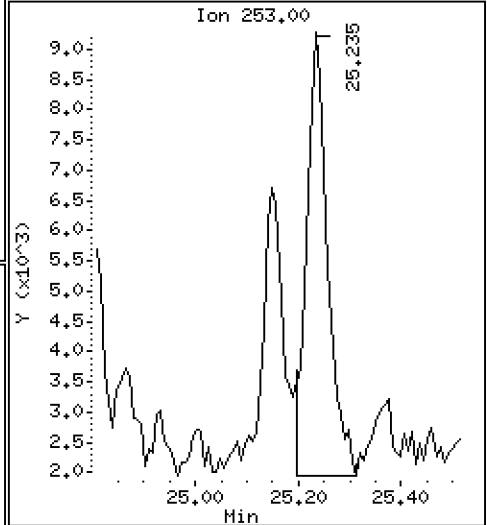
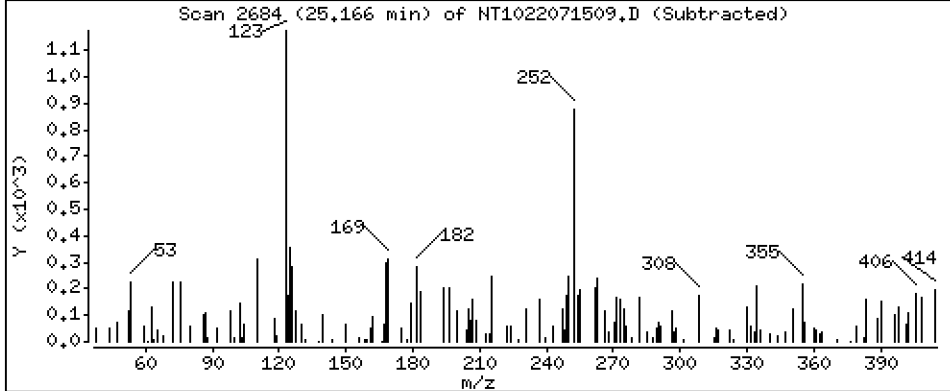
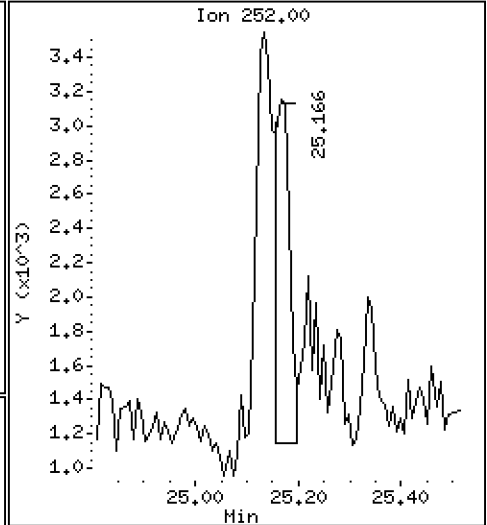
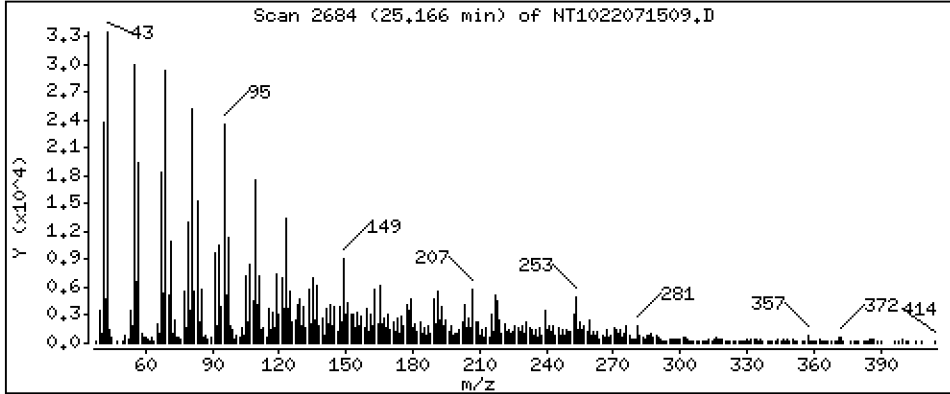
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,4272 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-01,5

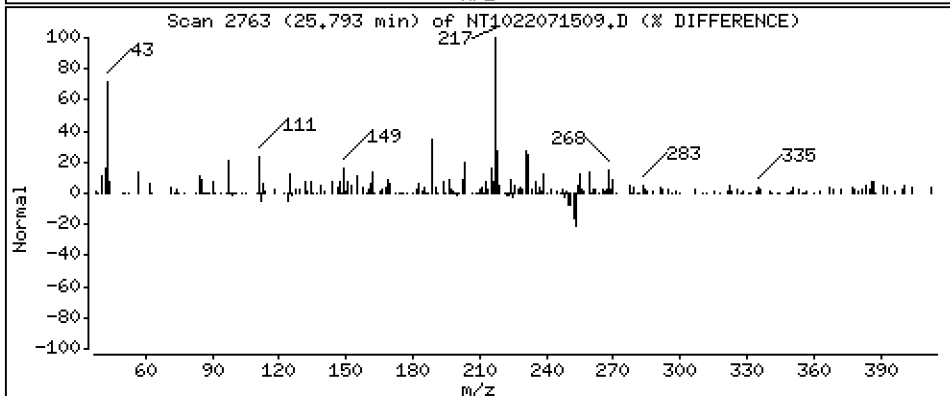
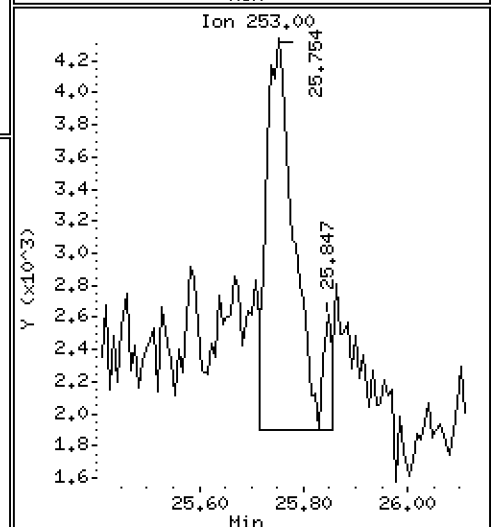
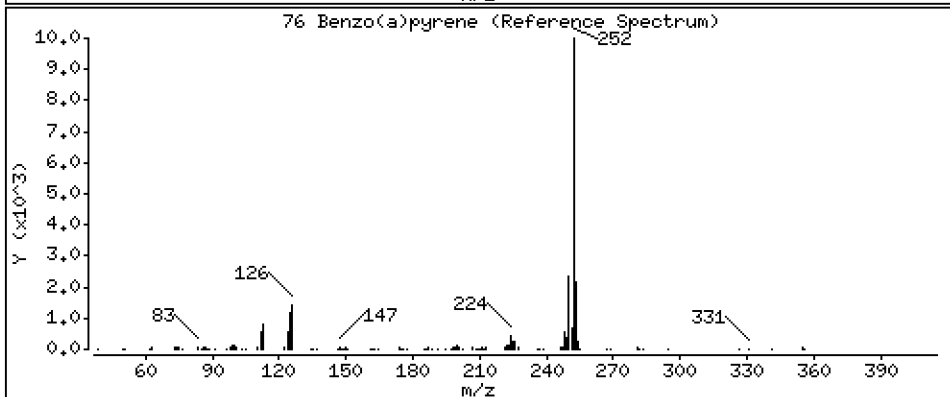
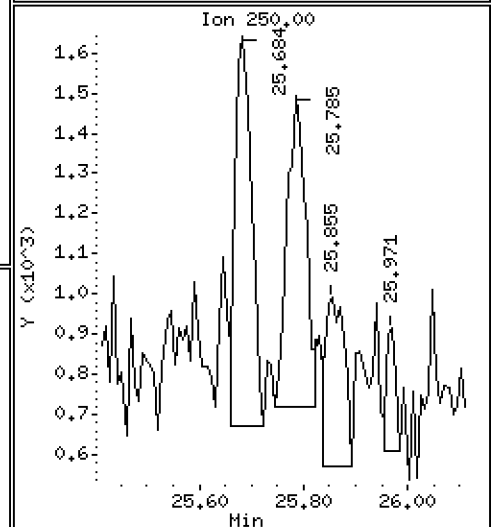
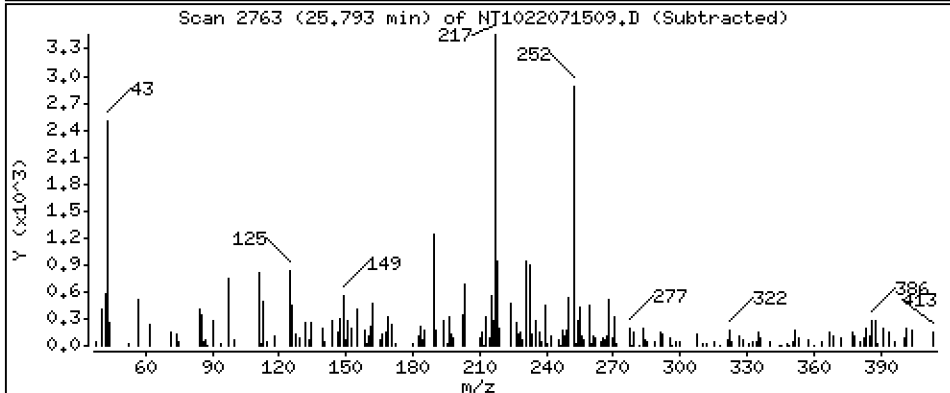
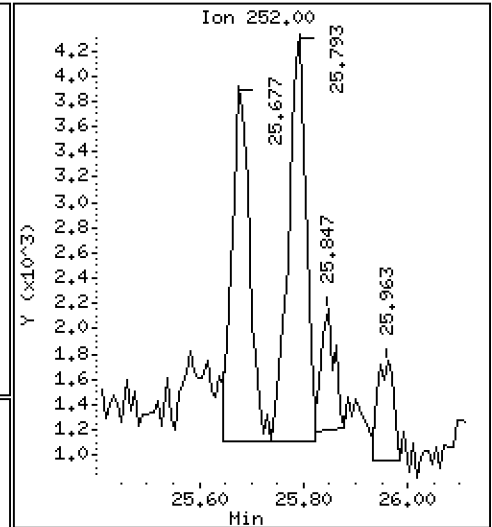
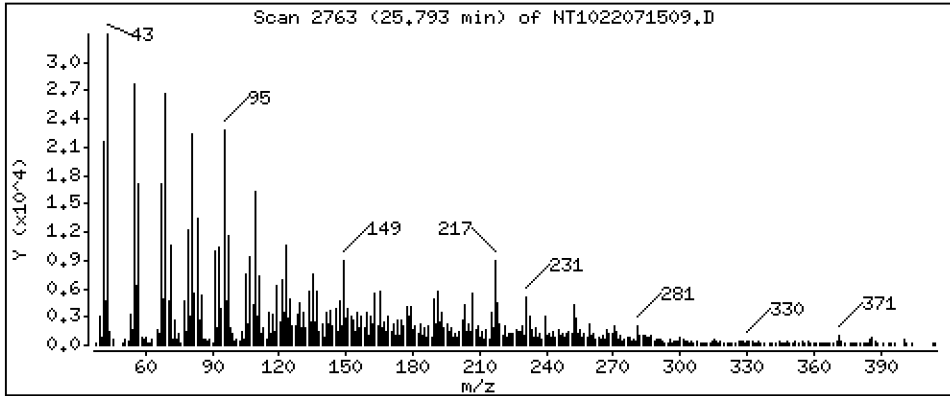
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 1,043 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-01,5

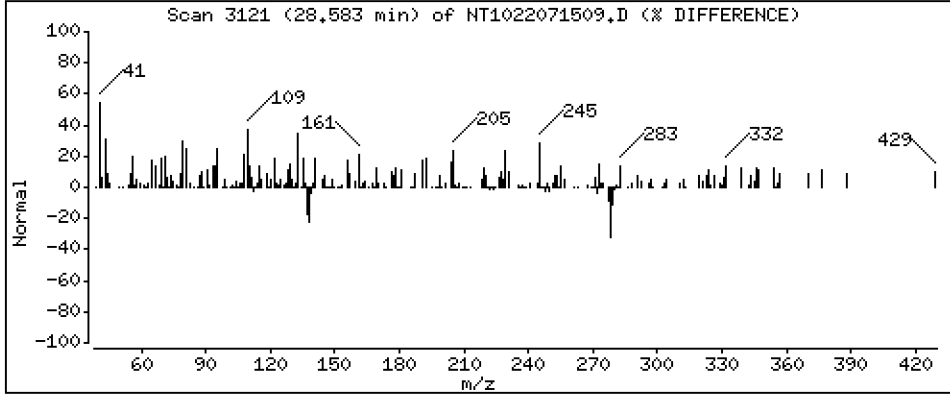
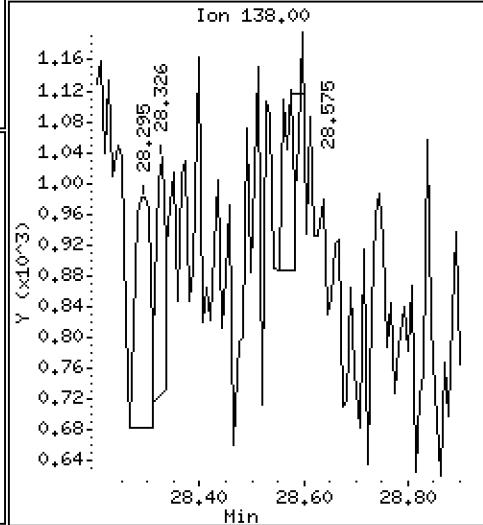
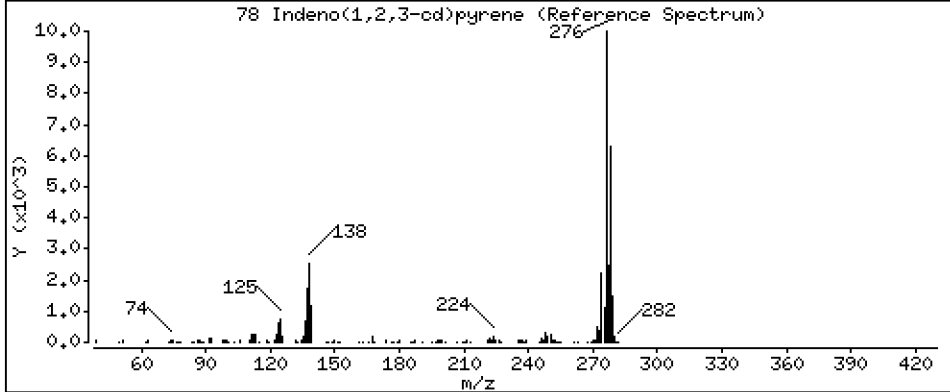
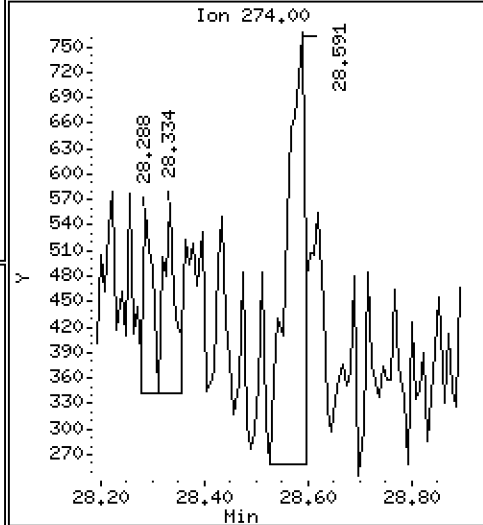
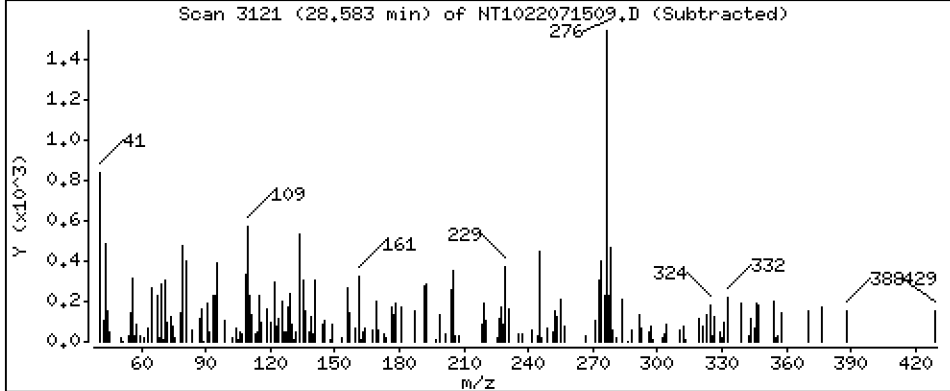
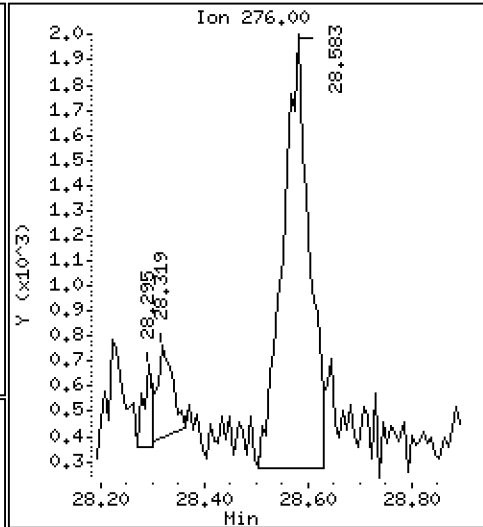
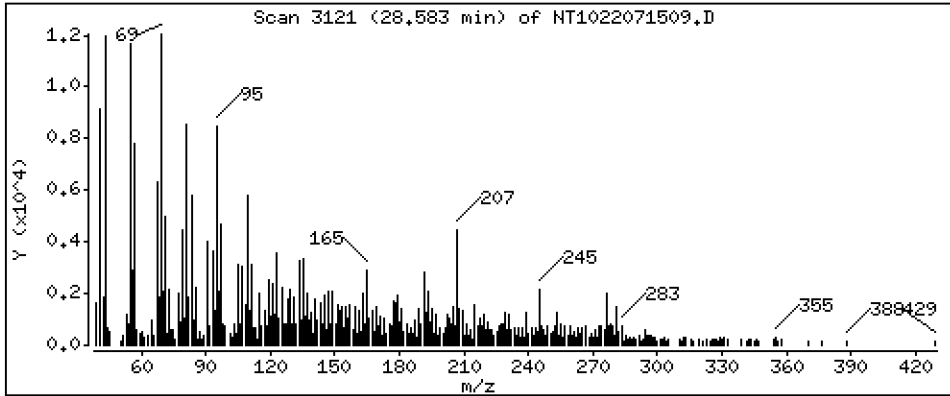
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,7750 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-01,5

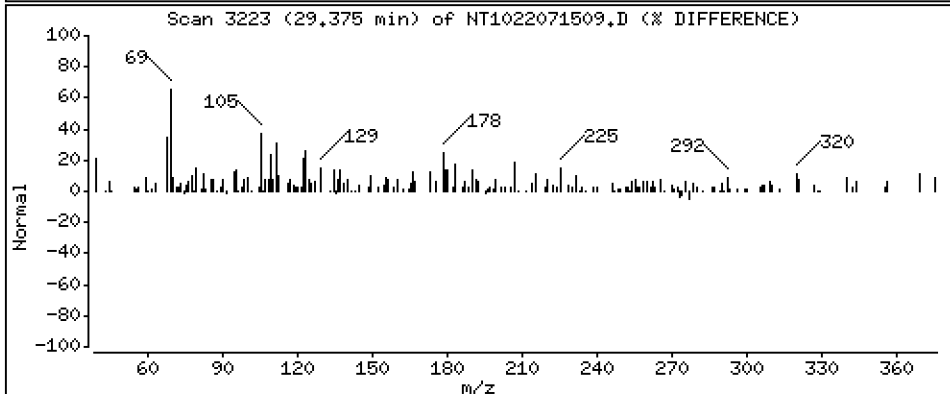
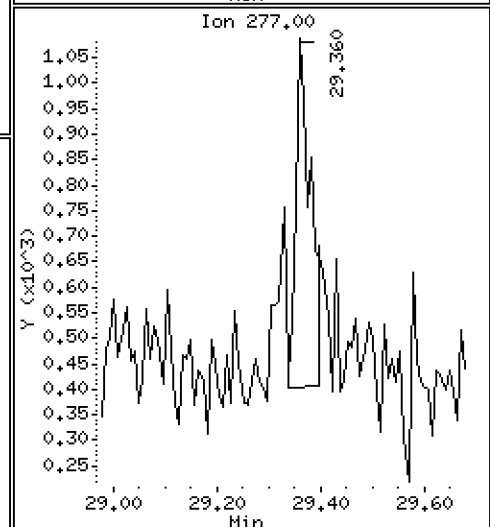
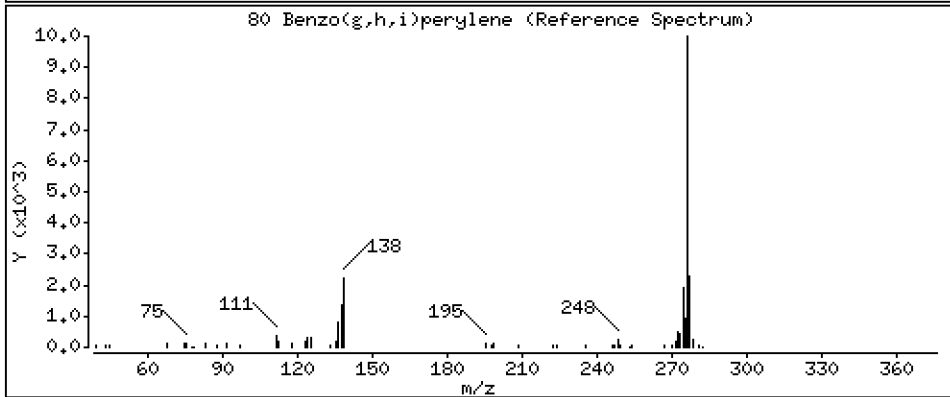
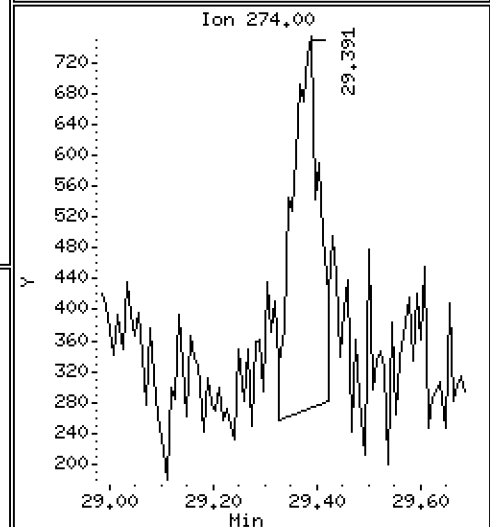
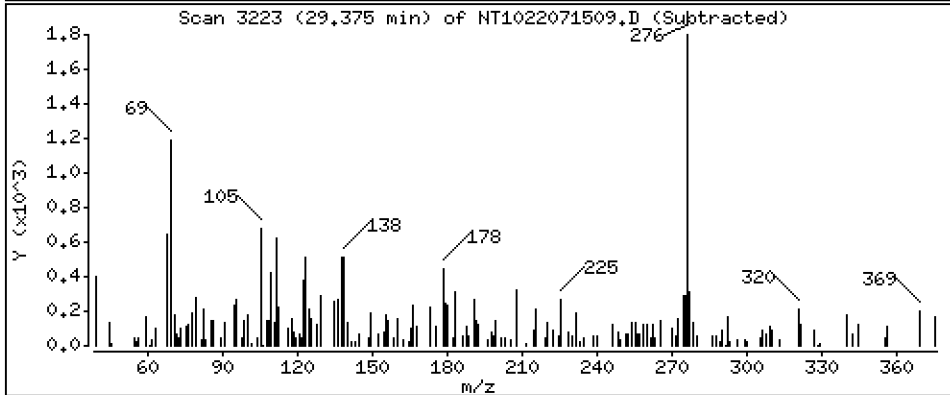
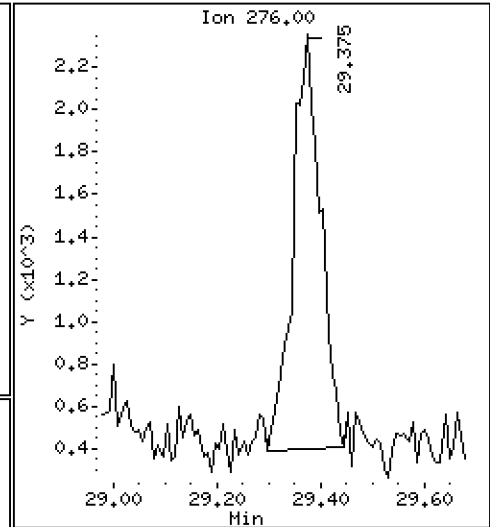
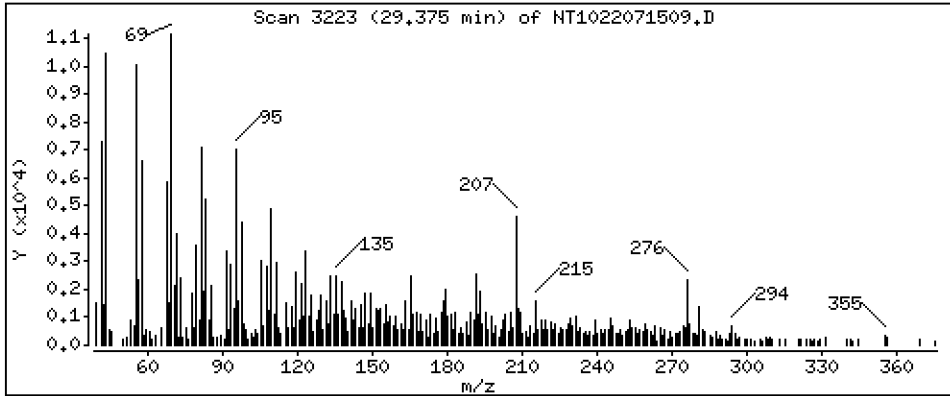
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 1,165 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-01,5

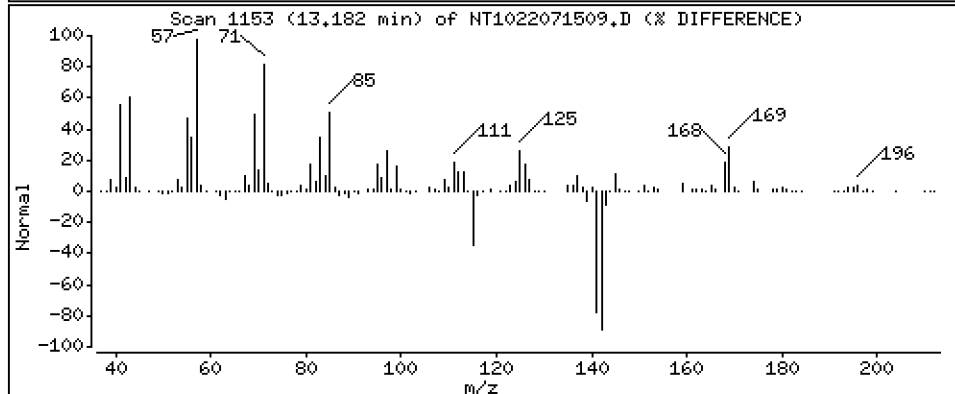
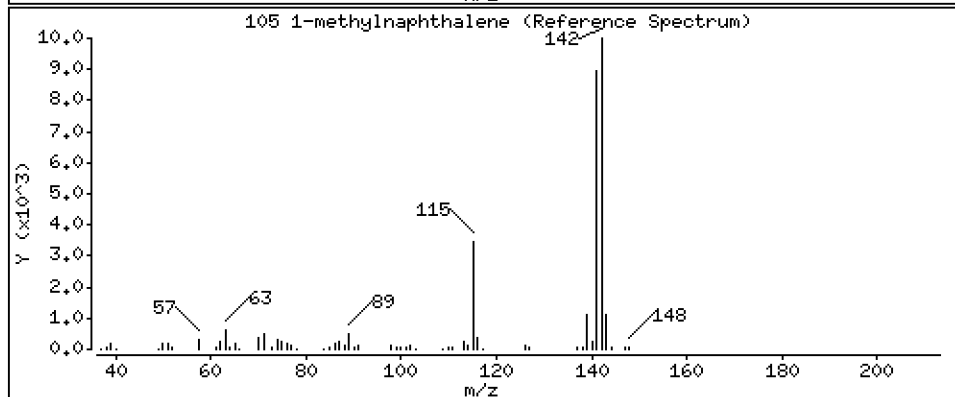
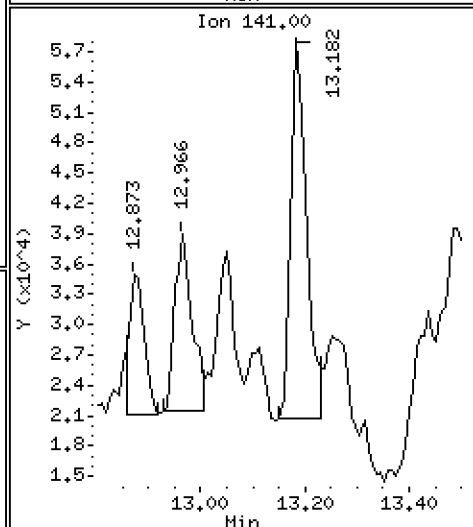
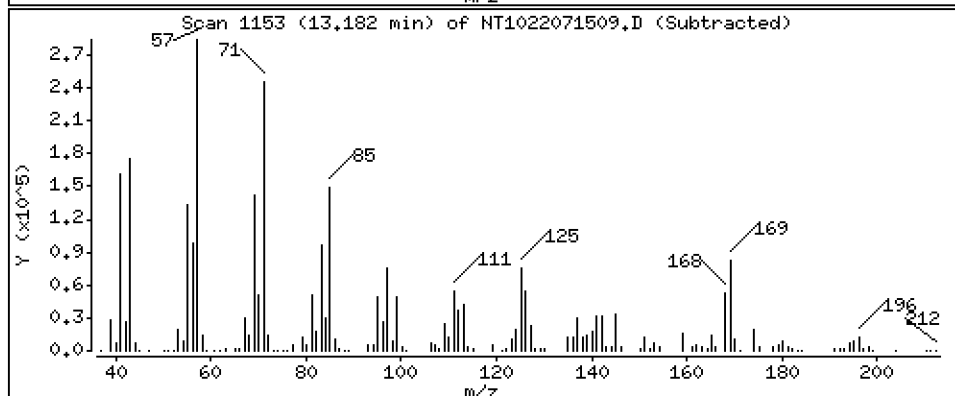
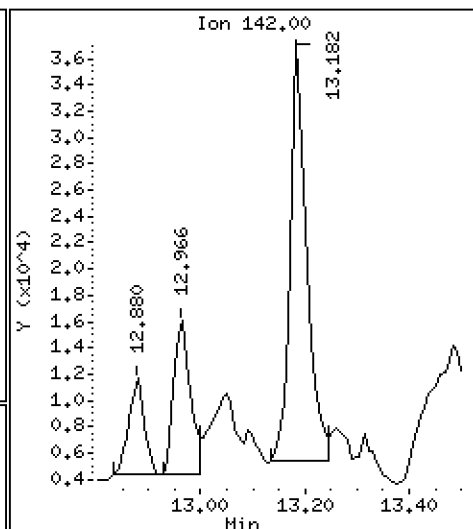
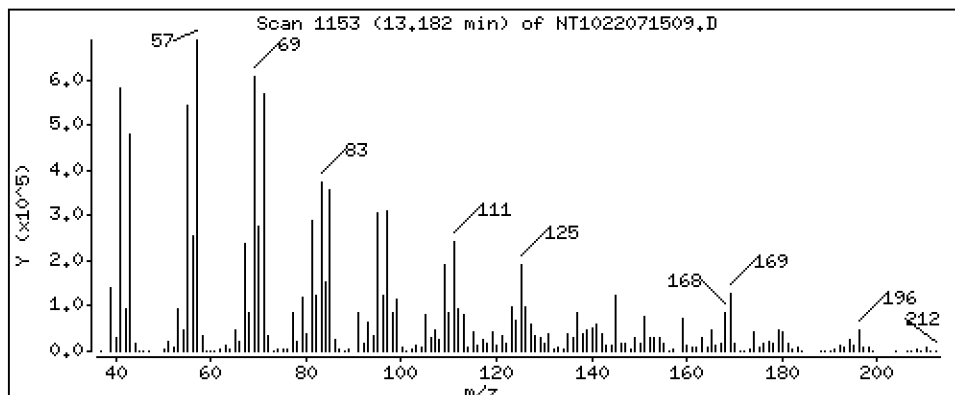
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 2,721 ug/mL



Date : 15-JUL-2022 17:23

Client ID:

Instrument: nt10.i

Sample Info: 2200019-01,5

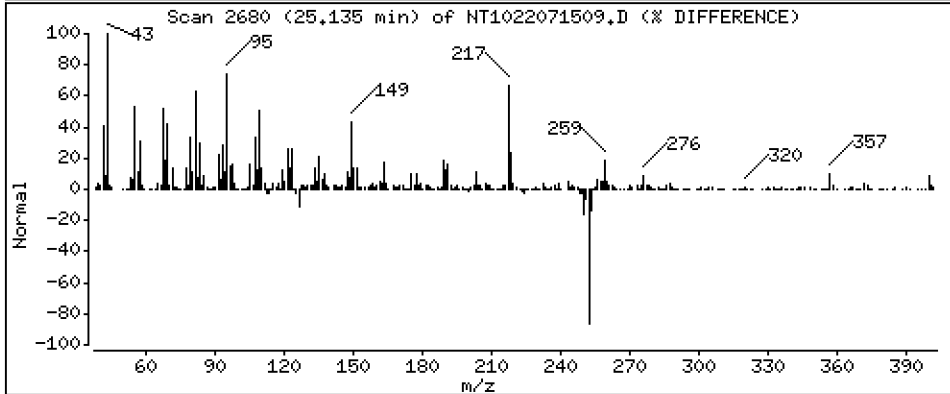
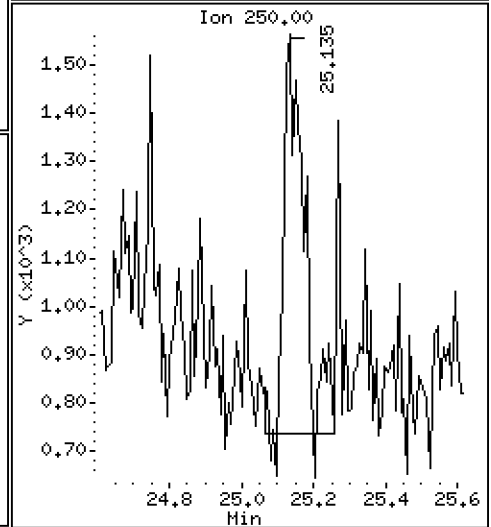
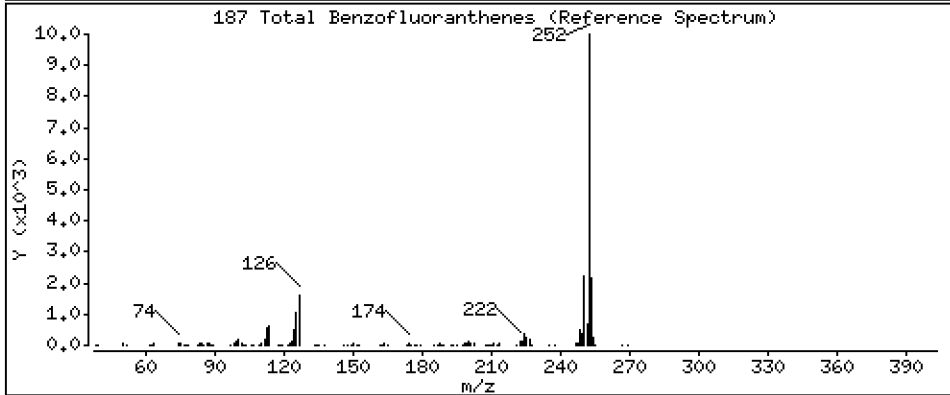
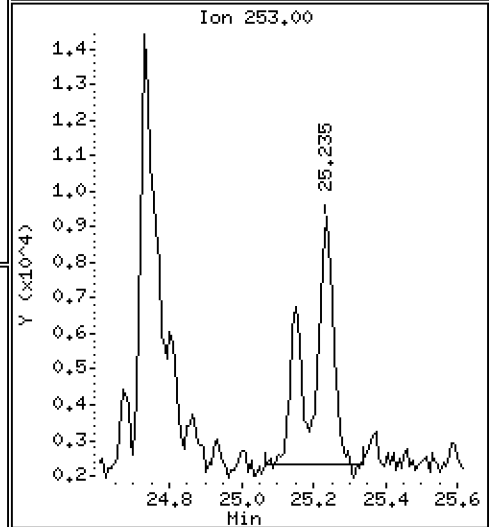
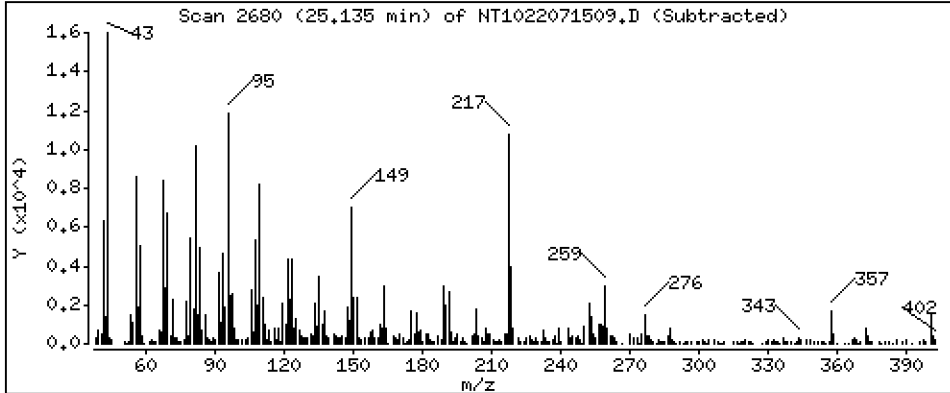
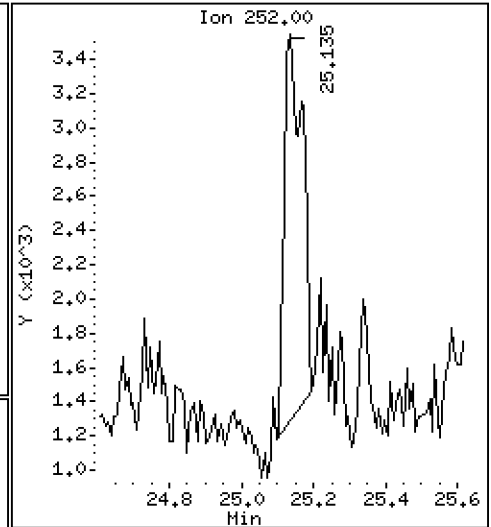
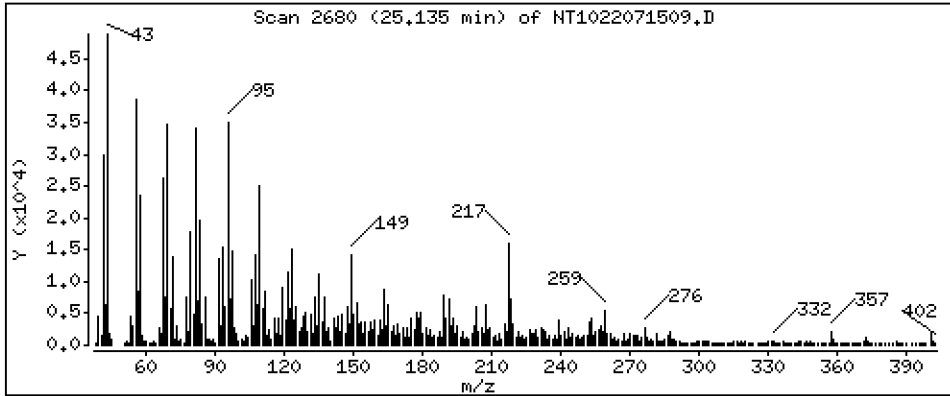
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,9024 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071509.D
 Lab Smp Id: 22G0019-01
 Inj Date : 15-JUL-2022 17:23
 Operator : VTS
 Smp Info : 22G0019-01,5
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 9
 Dil Factor: 5.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.821	6.806	(0.757)	111505	1.21157	6.058
\$ 2 Phenol-d5	99		8.412	8.398	(0.933)	139370	1.02060	5.103
3 Phenol	94		8.443	8.421	(0.937)	11094	0.09323	0.4662
\$ 5 2-Chlorophenol-d4	132		8.667	8.652	(0.961)	130081	1.38714	6.936
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.016	9.001	(1.000)	252040	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.373	9.366	(1.040)	56154	0.97177	4.859
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		10.102	10.095	(0.878)	58249	1.03876	5.194
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.503	11.488	(1.000)	526995	4.00000	
28 Naphthalene	128		11.542	11.535	(1.003)	38160	0.28293	1.415
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		12.965	12.927	(1.127)	26777	0.19976	0.9988
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.754	13.716	(0.907)	88132	0.99300	4.965
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152							
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.171	15.109	(1.000)	196127	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153							
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168							
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166							
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.839	16.762	(1.110)	11894	1.34321	6.716
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266		18.006	17.906	(0.987)	38414	7.71428	38.57
* 59 Phenanthrene-d10	188		18.246	18.161	(1.000)	321152	4.00000	
60 Phenanthrene	178		18.292	18.207	(1.003)	41724	0.49452	2.473 (M)
61 Anthracene	178							
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.667	20.606	(0.889)	24003	0.29950	1.498 (H)
65 Pyrene	202		21.085	21.031	(0.906)	30384	0.43294	2.165
\$ 66 Terphenyl-d14	244		21.364	21.326	(0.918)	38570	0.97145	4.857
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.238	23.215	(0.999)	7677	0.15924	0.7962
* 69 Chrysene-d12	240		23.261	23.246	(1.000)	113773	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.307	23.292	(1.002)	11599	0.36276	1.814
72 bis(2-Ethylhexyl)phthalate	149		23.315	23.308	(0.959)	19143	0.74326	3.716
* 134 Di-n-octylphthalate-d4	153		24.314	24.306	(1.000)	233016	4.00000	
73 Di-n-octylphthalate	149		24.337	24.314	(1.001)	9568	0.18066	0.9033
74 Benzo(b)fluoranthene	252		25.134	25.112	(0.970)	5746	0.12673	0.6336
75 Benzo(k)fluoranthene	252		25.165	25.158	(0.971)	3725	0.08544	0.4272 (M)
76 Benzo(a)pyrene	252		25.792	25.762	(0.996)	7740	0.20857	1.043
* 77 Perylene-d12	264		25.909	25.878	(1.000)	100116	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.582	28.544	(1.103)	6141	0.15499	0.7750
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276		29.375	29.329	(1.134)	7377	0.23292	1.165 (M)
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.182	13.151	(1.146)	71660	0.54414	2.721
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252	25.134	25.112	(0.970)	7630	0.18048	0.9024 (M)	
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.						

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071509.D Calibration Time: 12:41
 Lab Smp Id: 22G0019-01
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	252040	25.06
27 Naphthalene-d8	649654	324827	1299308	526995	-18.88
42 Acenaphthene-d10	370460	185230	740920	196127	-47.06
59 Phenanthrene-d10	647298	323649	1294596	321152	-50.39
69 Chrysene-d12	221116	110558	442232	113773	-48.55
134 Di-n-octylphthala	319144	159572	638288	233016	-26.99
77 Perylene-d12	105234	52617	210468	100116	-4.86

<-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.02	0.17
27 Naphthalene-d8	11.49	10.99	11.99	11.50	0.13
42 Acenaphthene-d10	15.11	14.61	15.61	15.17	0.41
59 Phenanthrene-d10	18.16	17.66	18.66	18.25	0.47
69 Chrysene-d12	23.25	22.75	23.75	23.26	0.06
134 Di-n-octylphthala	24.31	23.81	24.81	24.31	0.03
77 Perylene-d12	25.88	25.38	26.38	25.91	0.12

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

REVIEW SUMMARY FOR FILE - NT1022071509.D

Lab ID: 22G0019-01
nt10.i, ABN.m, 15-JUL-2022 17:23

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: NT1022071502.D

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

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

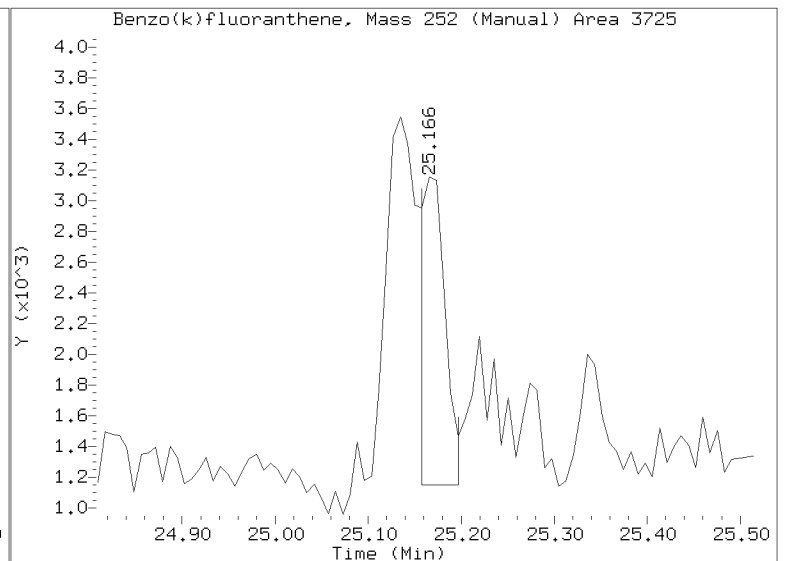
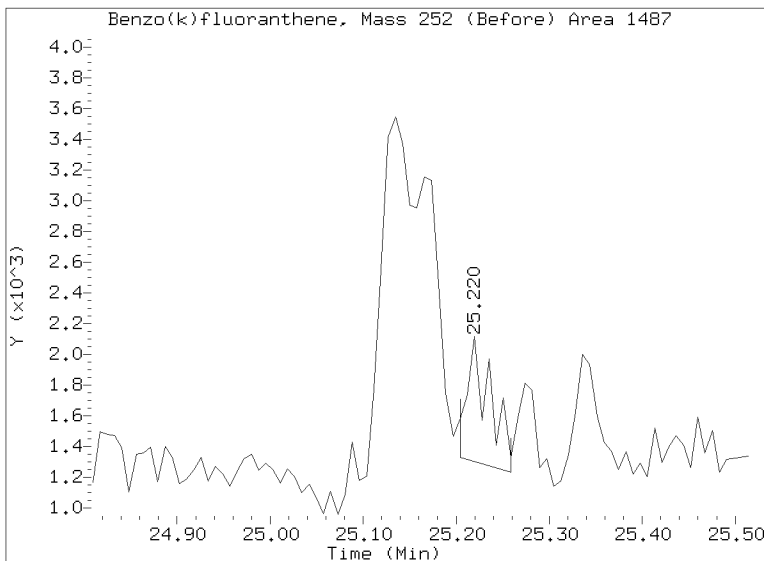
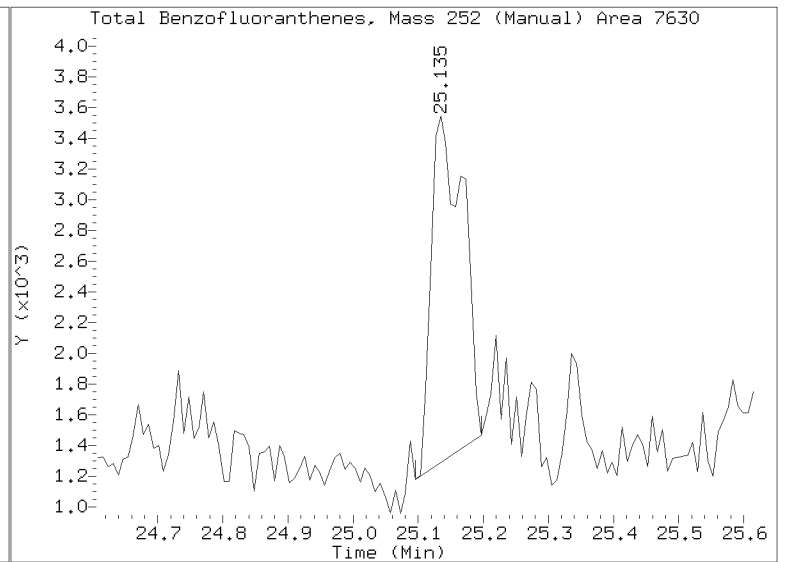
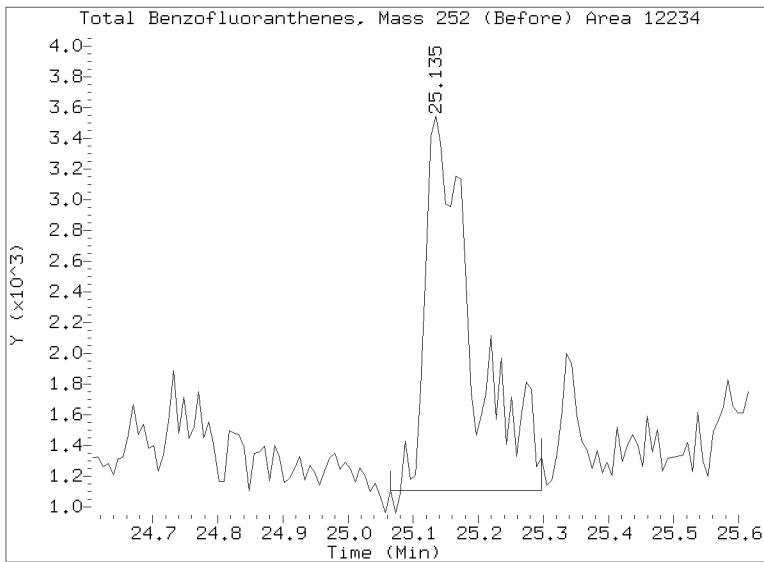
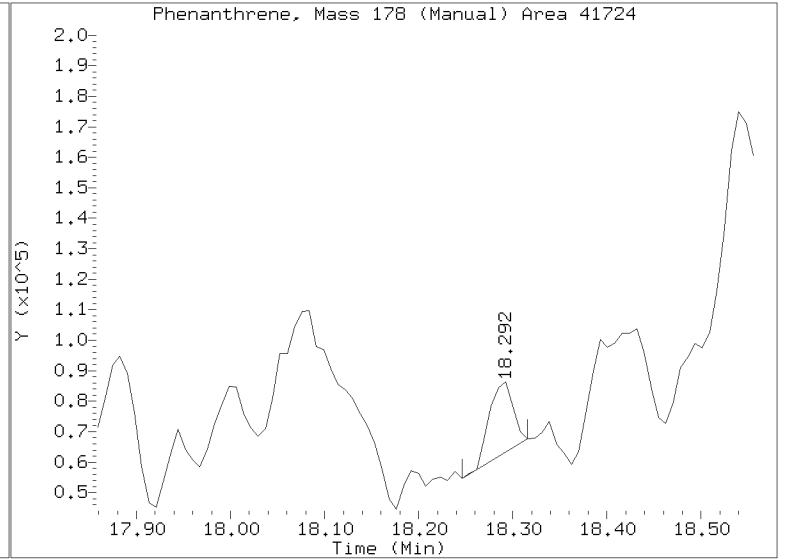
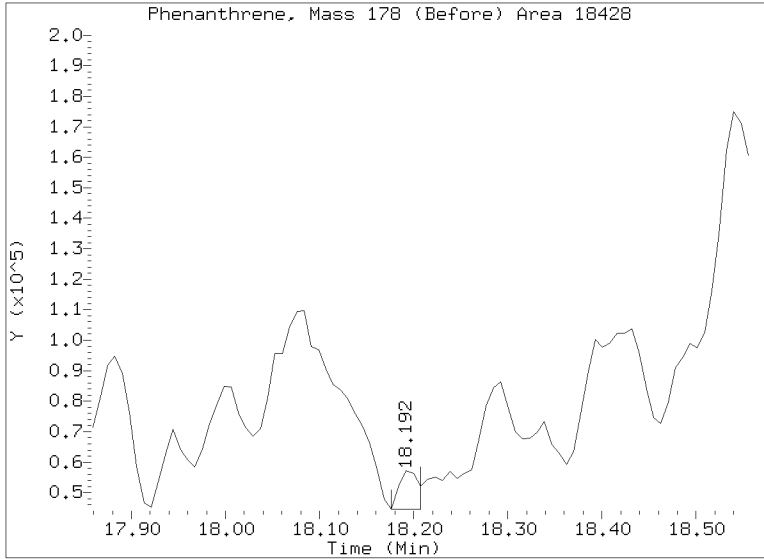
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071509.D

Injection Date: 15-JUL-2022 17:23

Lab ID:22G0019-01 Client ID:

Report Date: 07/16/2022 09:01



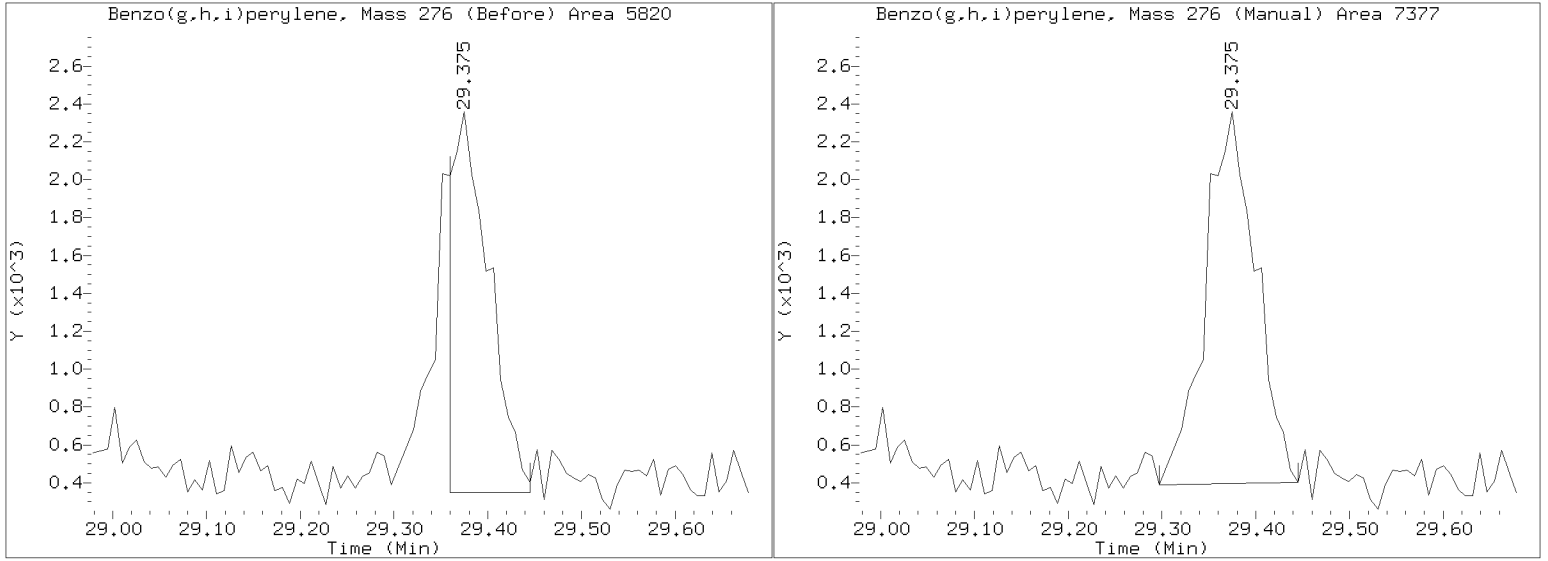
Quant Ion Manual Peak Adjustment Report

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Injection Date: 15-JUL-2022 17:23

Lab ID:22G0019-01 Client ID:

Report Date: 07/16/2022 09:01





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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-02 A

SDG: 22G0019

Sampled: 06/27/22 13:25

Prepared: 07/07/22 10:01

File ID: NT1022071408.D

% Solids: 22.49

Preparation: EPA 3546 (Microwave)

Analyzed: 07/14/22 18:16

Batch: BKG0069

Sequence: SKG0139

Initial/Final: 20.03 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	1	1530		9.4	44.4
91-57-6	2-Methylnaphthalene	1	120		10.0	44.4
83-32-9	Acenaphthene	1	109		11.6	44.4
87-86-5	Pentachlorophenol	1	69.4	U	69.4	222
85-01-8	Phenanthrene	1	1660		19.4	44.4
206-44-0	Fluoranthene	1	1130	Q	13.5	44.4
56-55-3	Benzo(a)anthracene	1	563		13.2	44.4
218-01-9	Chrysene	1	904		13.5	44.4
205-99-2	Benzo(b)fluoranthene	1	562		15.6	44.4
207-08-9	Benzo(k)fluoranthene	1	632		11.1	44.4
50-32-8	Benzo(a)pyrene	1	811		9.4	44.4
193-39-5	Indeno(1,2,3-cd)pyrene	1	174		32.5	44.4
53-70-3	Dibenzo(a,h)anthracene	1	52.2		38.2	44.4
90-12-0	1-Methylnaphthalene	1	85.8		11.7	44.4

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	1664.9	1020	61.2	27 - 120	
Phenol-d5	1664.9	967	58.1	29 - 120	
2-Chlorophenol-d4	1664.9	1400	84.0	31 - 120	
1,2-Dichlorobenzene-d4	1109.9	1030	92.6	32 - 120	
Nitrobenzene-d5	1109.9	944	85.0	30 - 120	
2-Fluorobiphenyl	1109.9	1260	114	35 - 120	
2,4,6-Tribromophenol	1664.9	1230	73.8	24 - 134	
p-Terphenyl-d14	1109.9	849	76.5	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220714.6\NT1022071408.D

Date : 14-JUL-2022 18:16

Client ID:

Sample Info: 22C0019-02

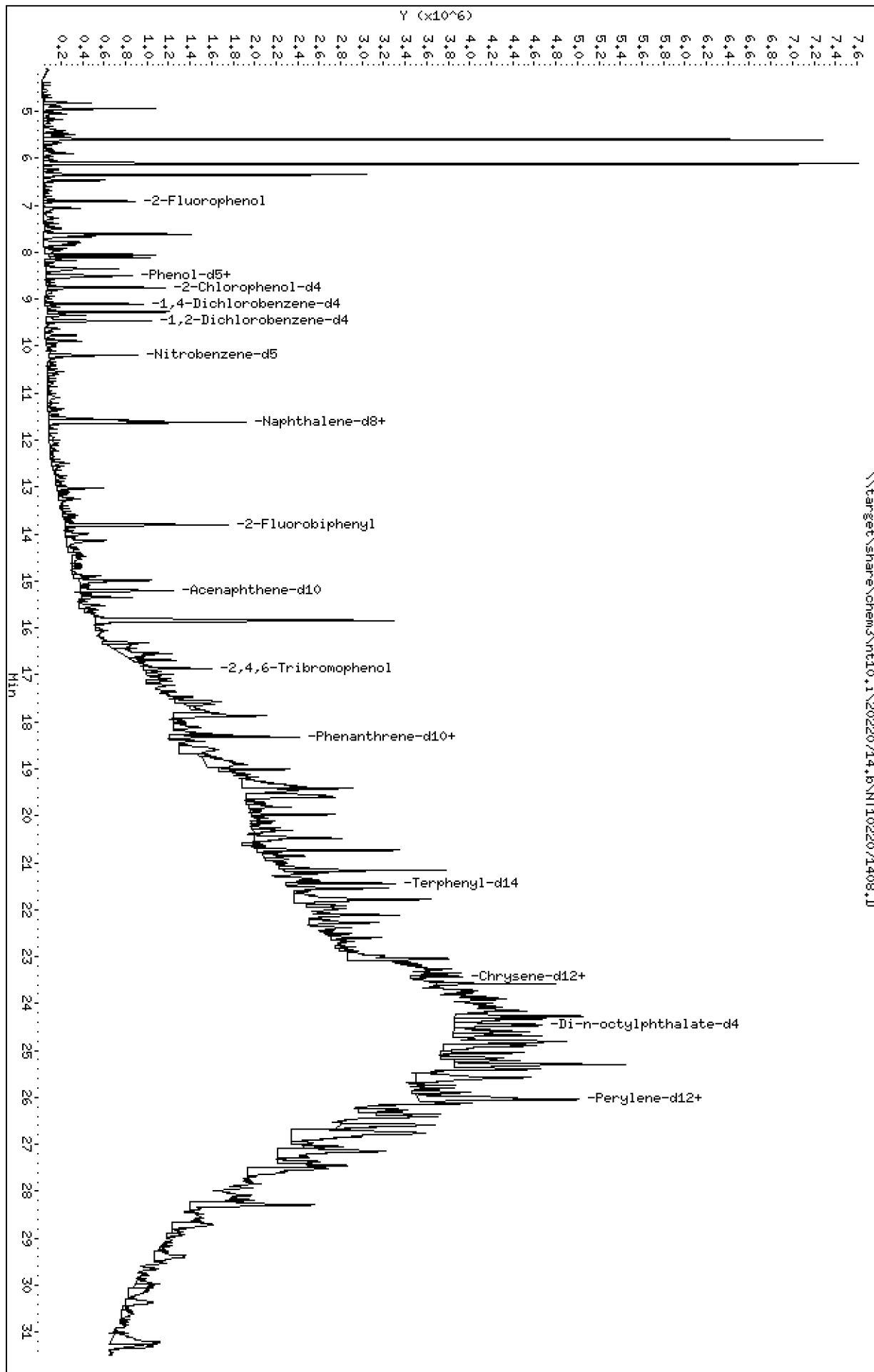
Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Column phase: ZB-5msi

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Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

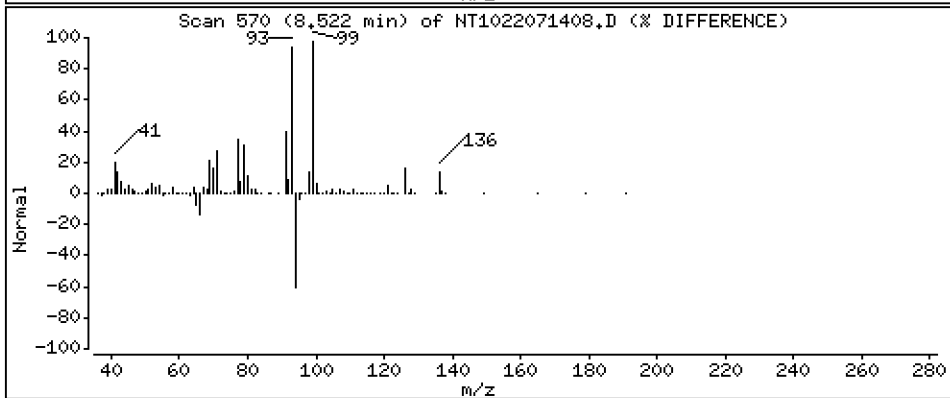
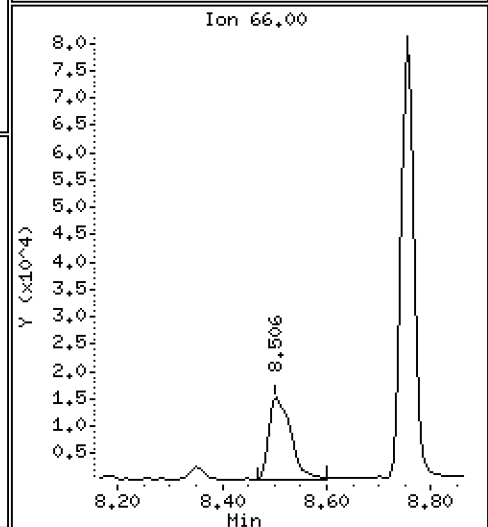
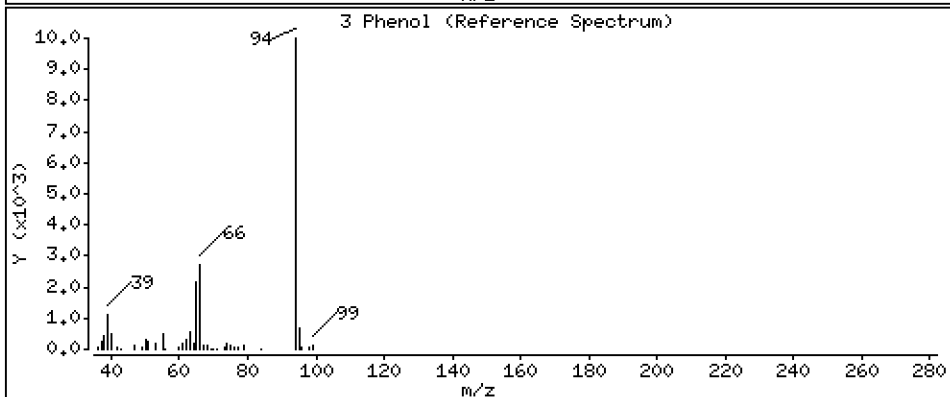
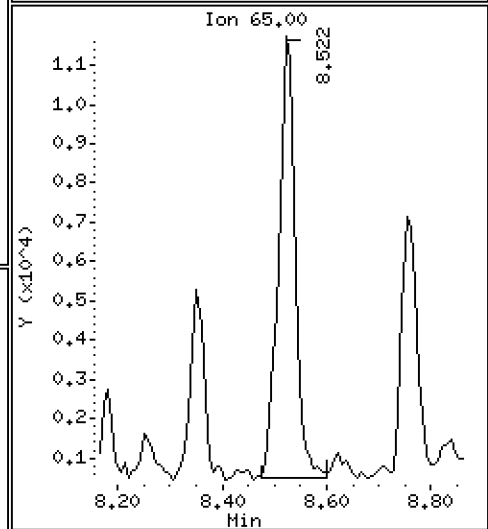
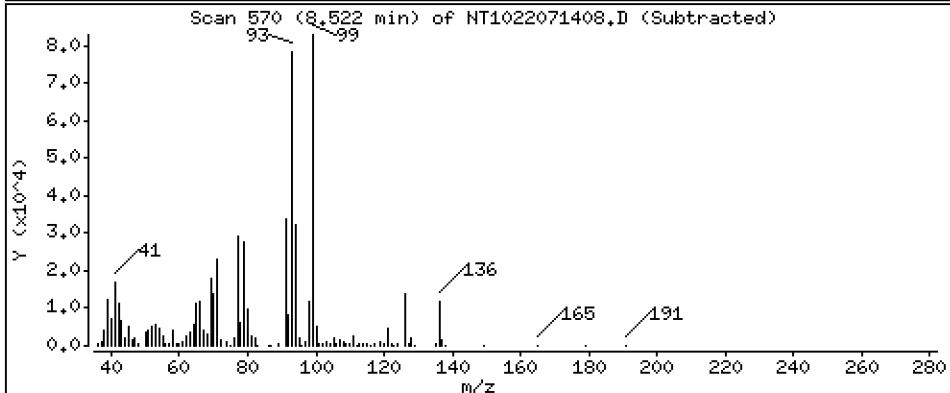
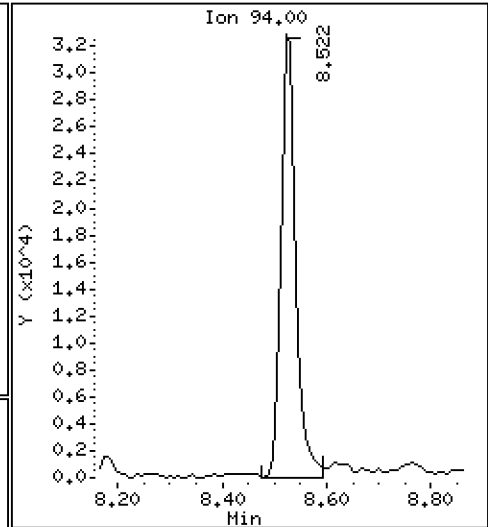
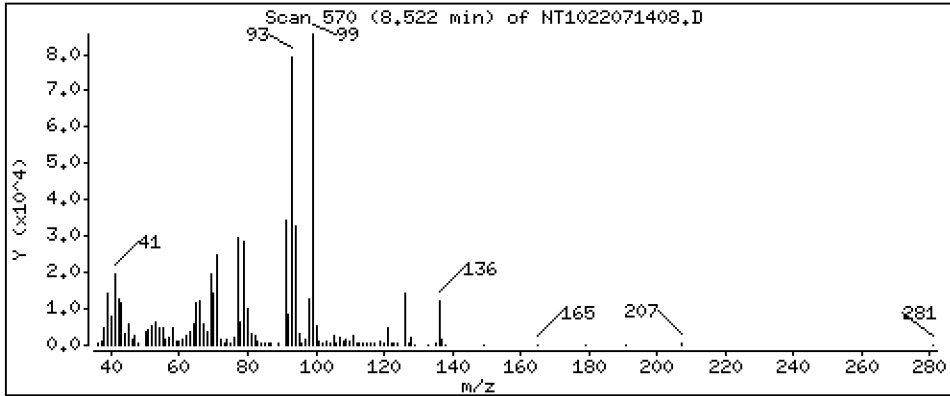
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,5382 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

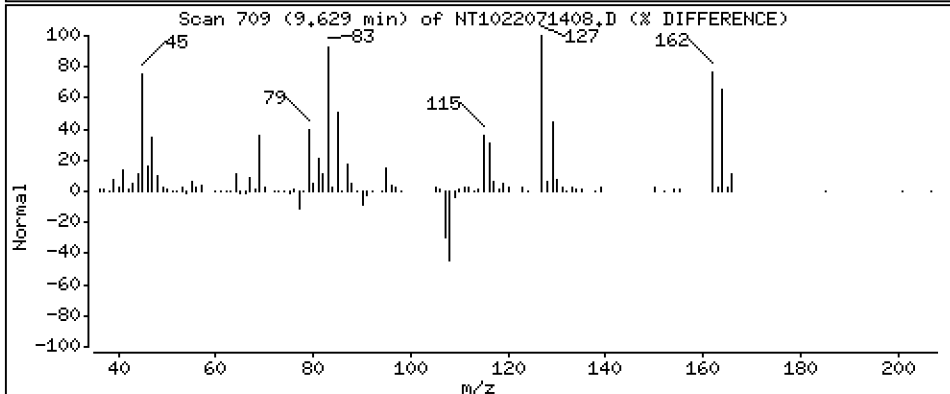
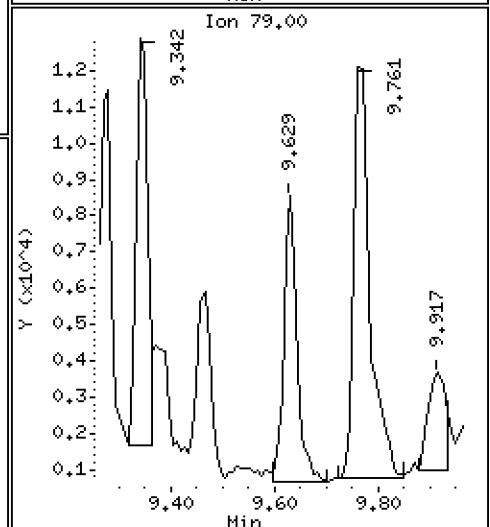
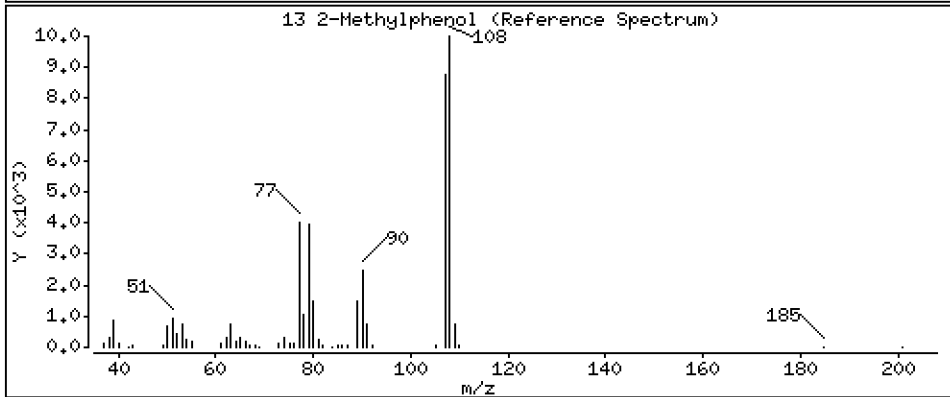
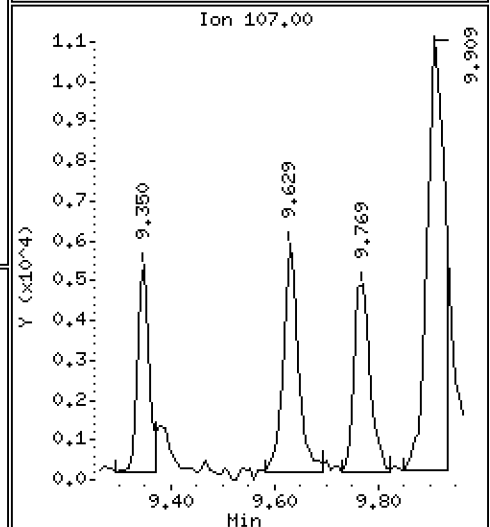
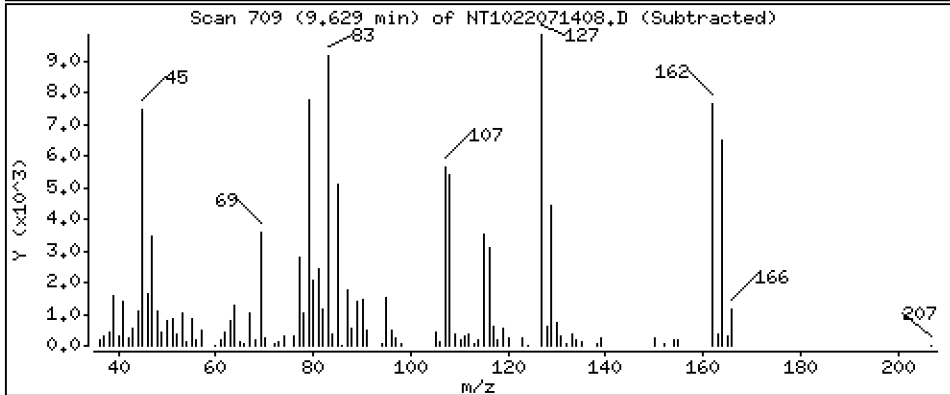
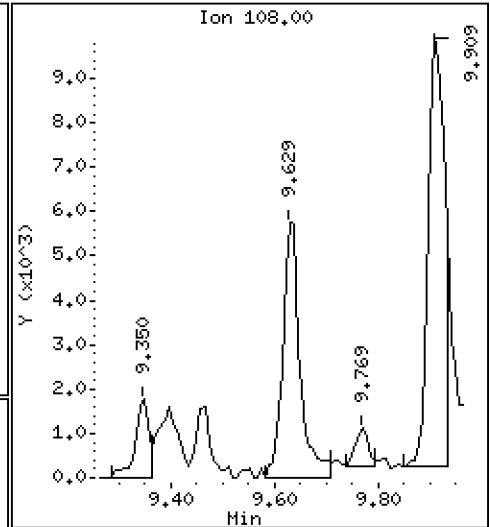
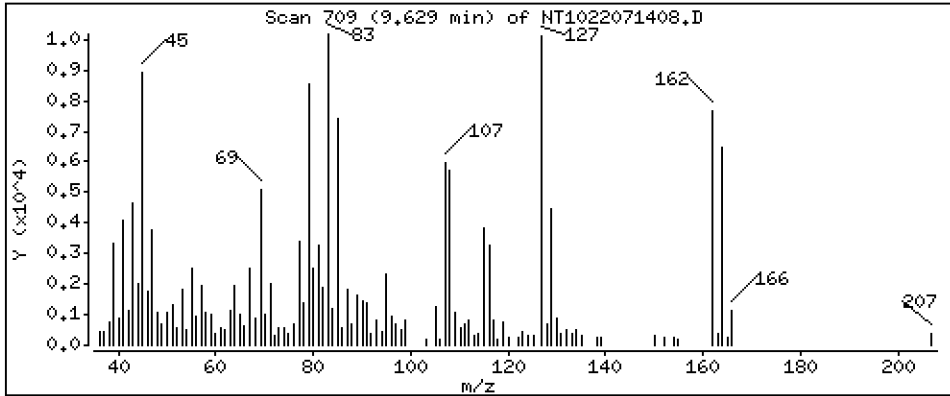
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.1827 ug/mL

13 2-Methylphenol



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

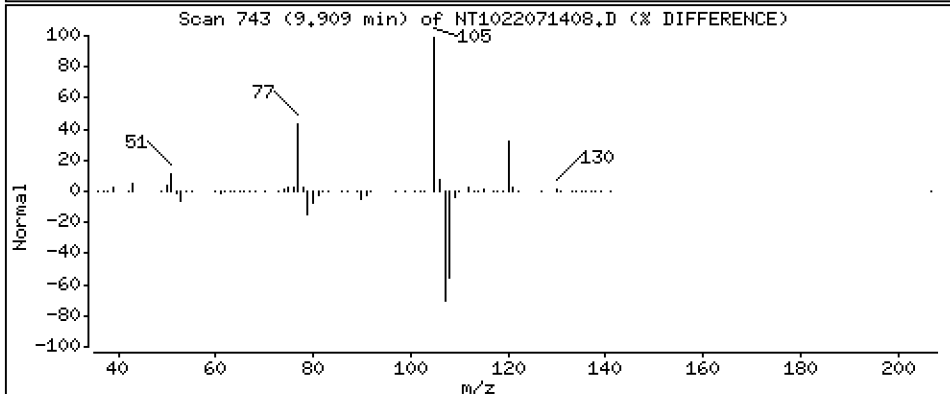
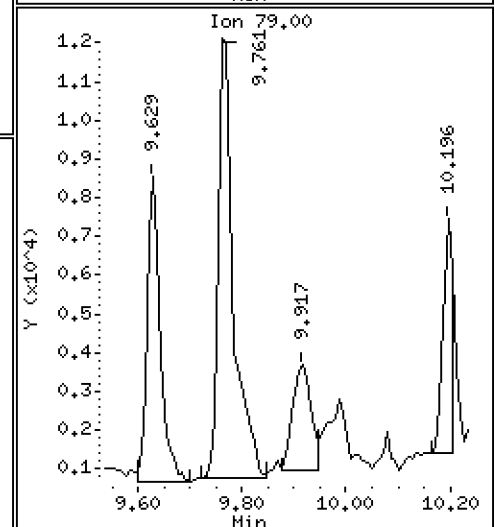
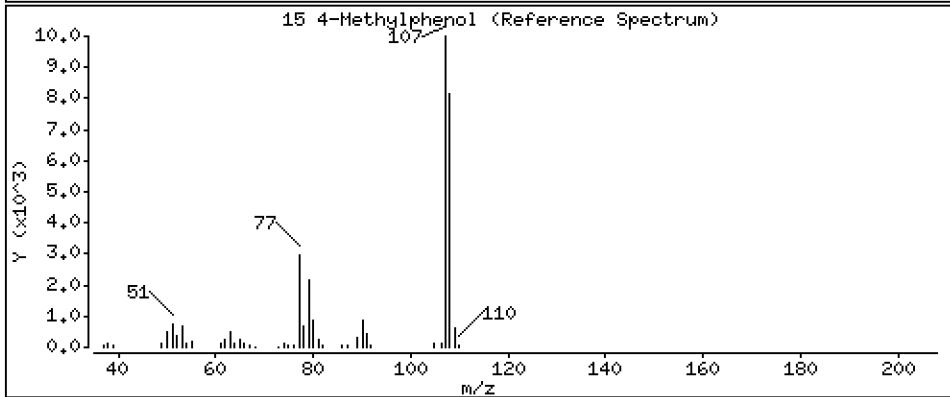
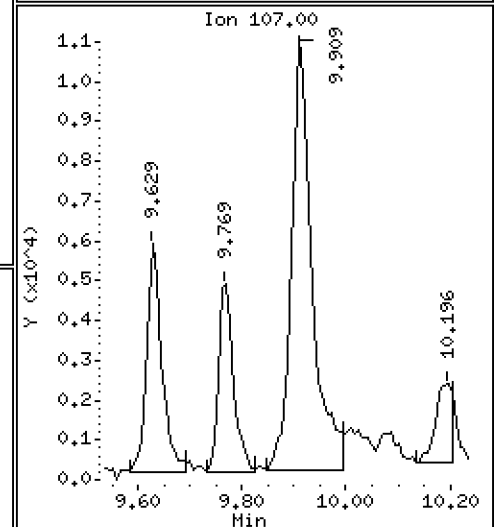
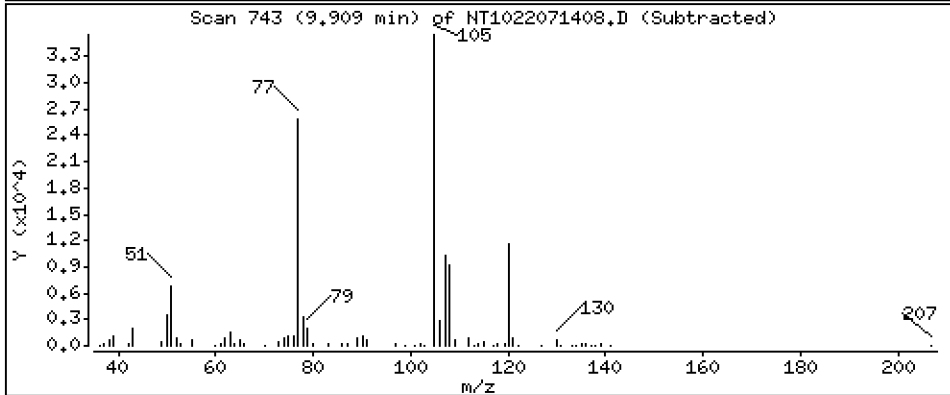
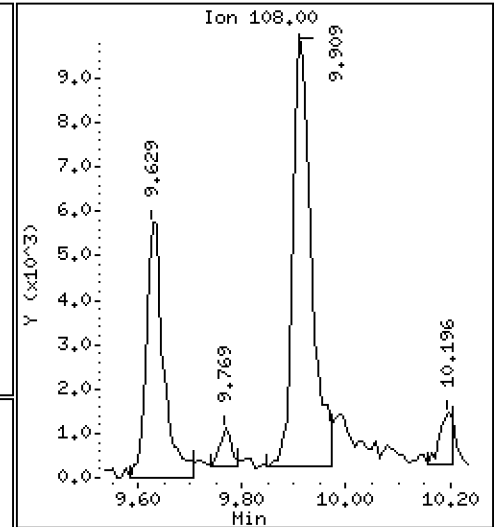
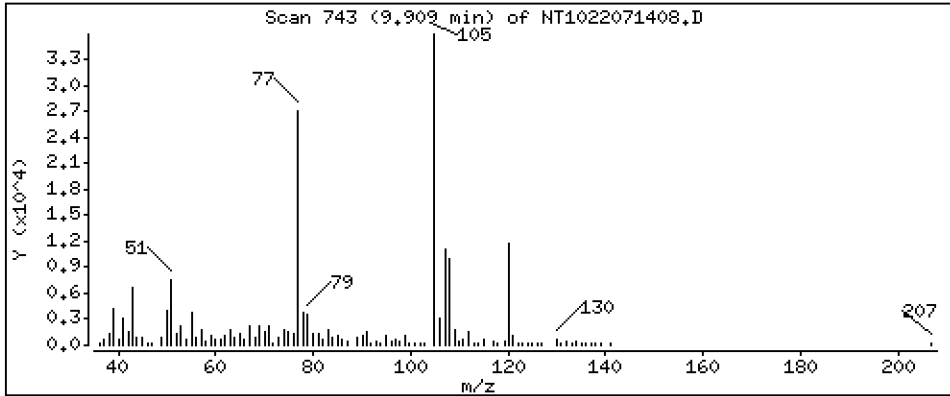
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.3159 ug/mL

15 4-Methylphenol



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

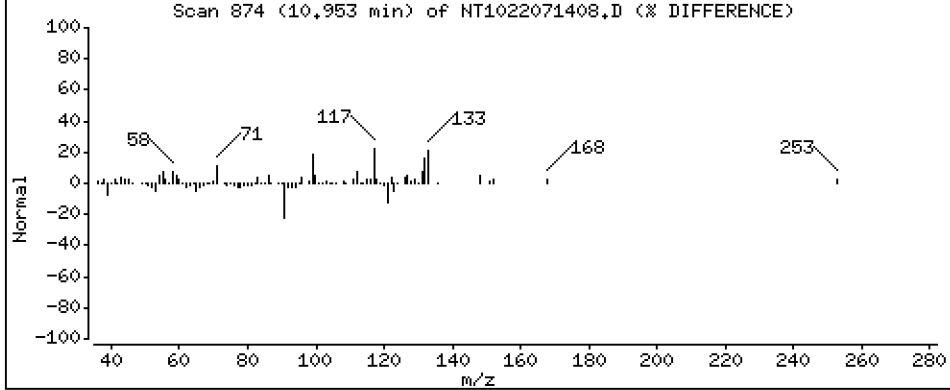
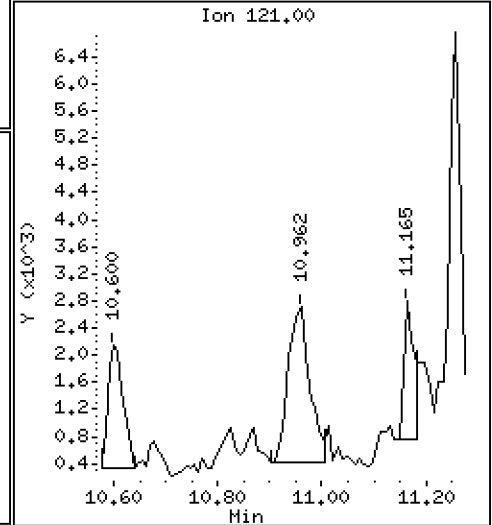
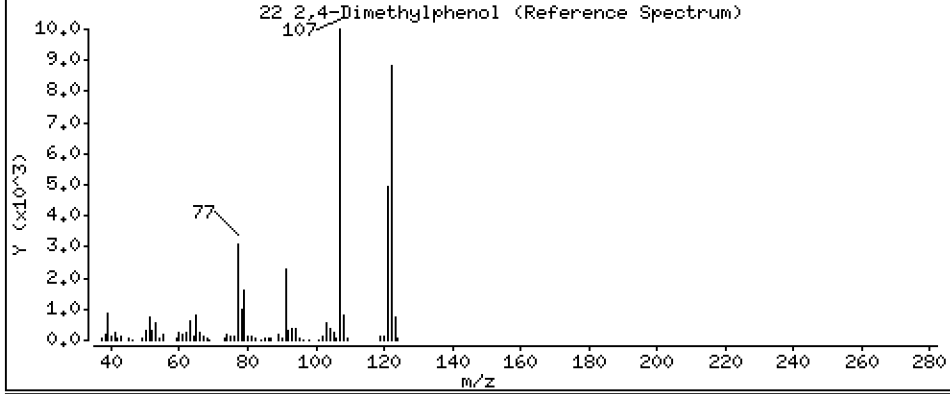
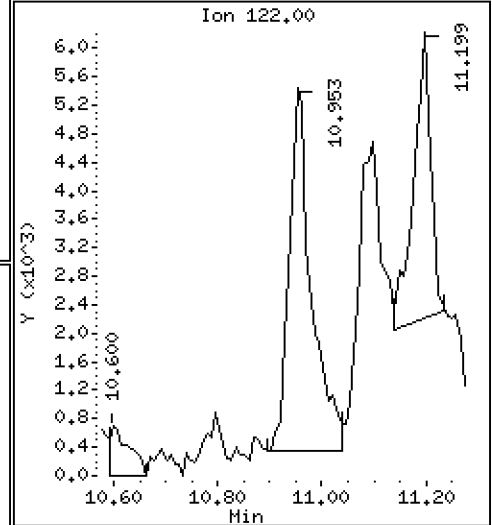
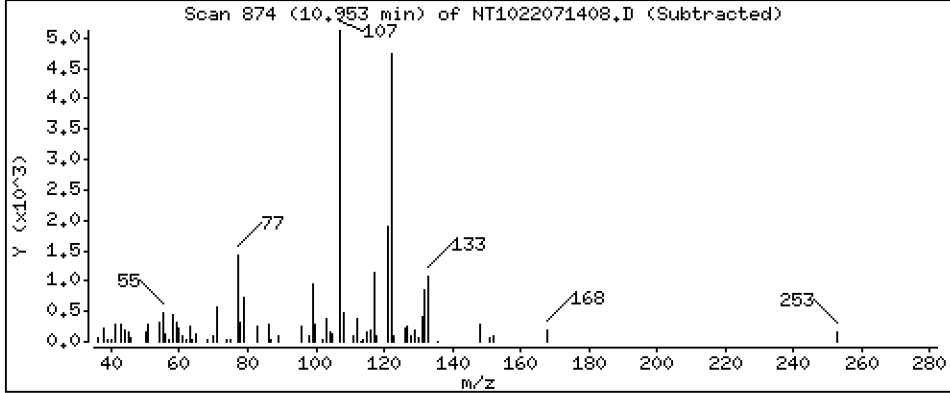
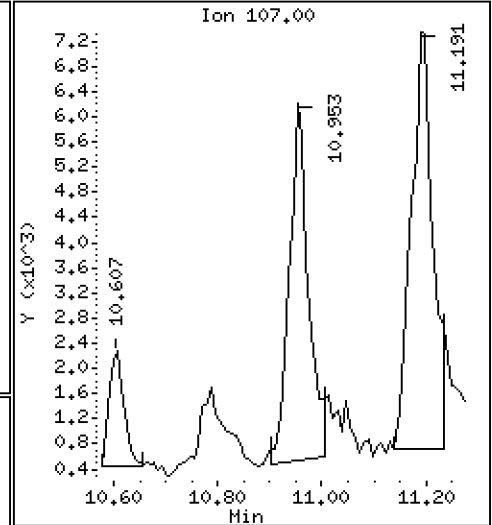
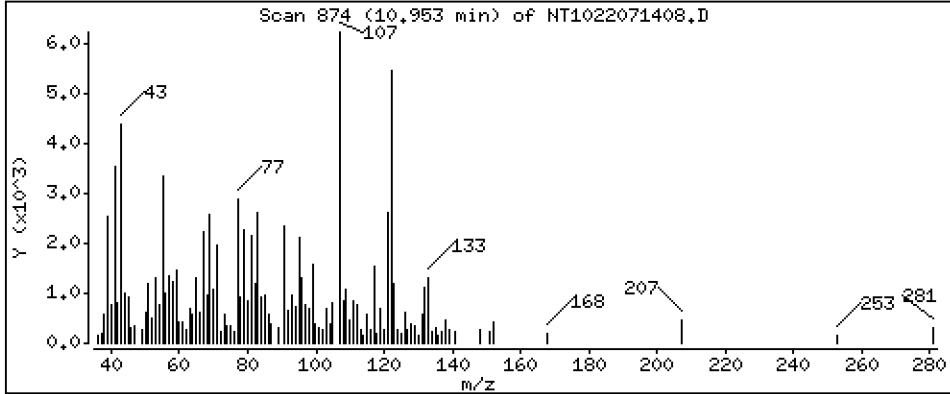
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.2057 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

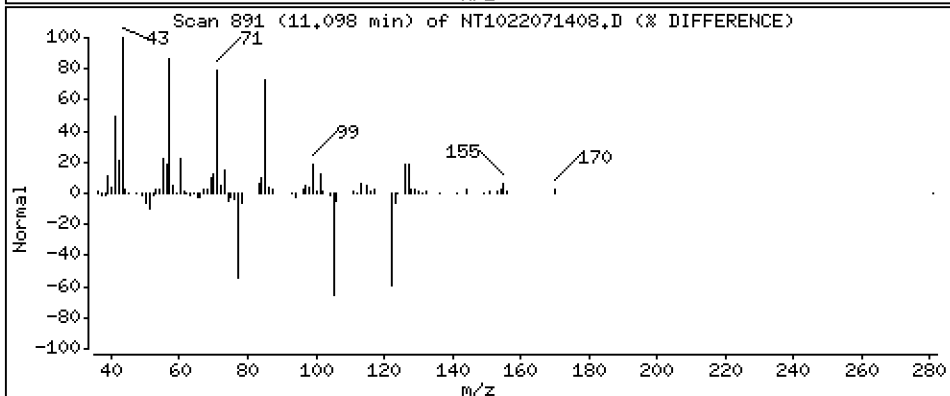
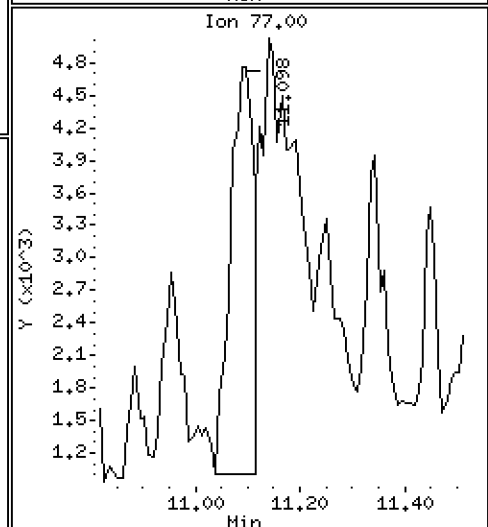
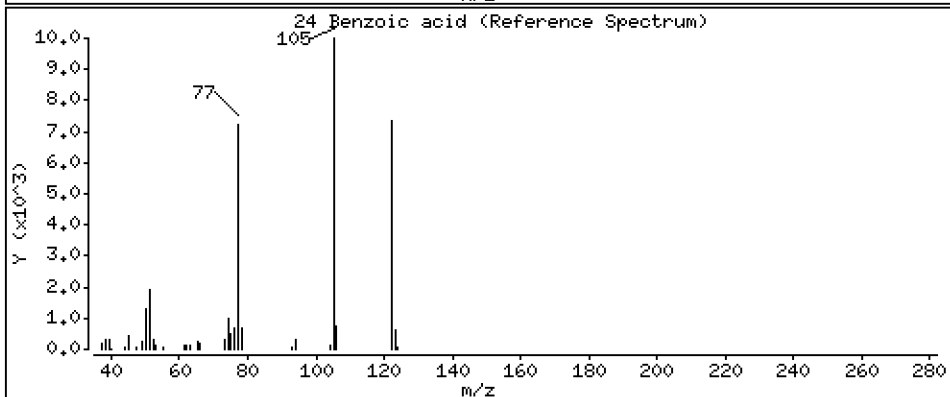
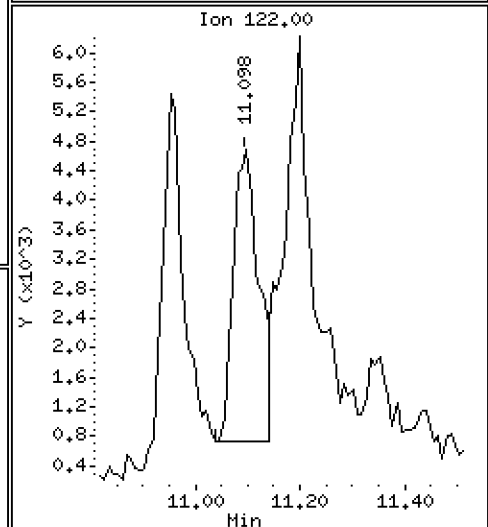
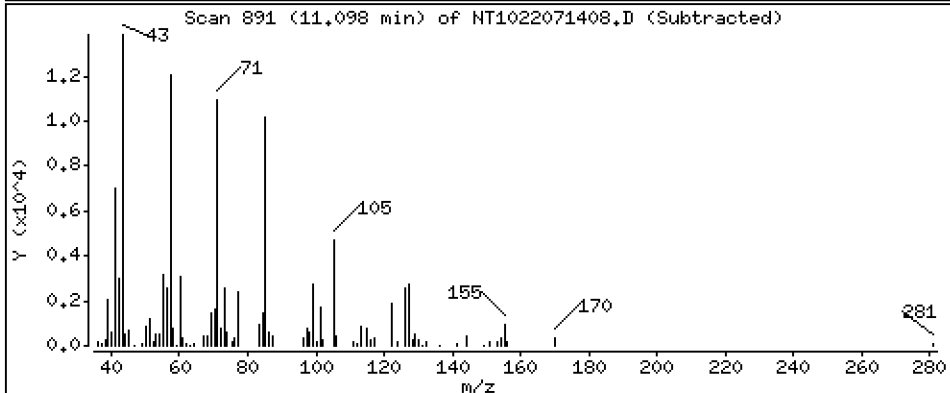
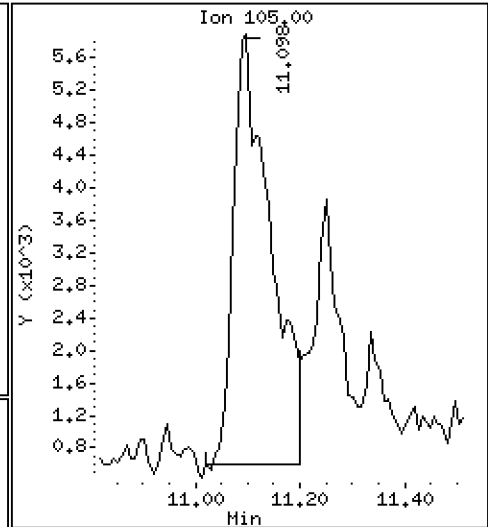
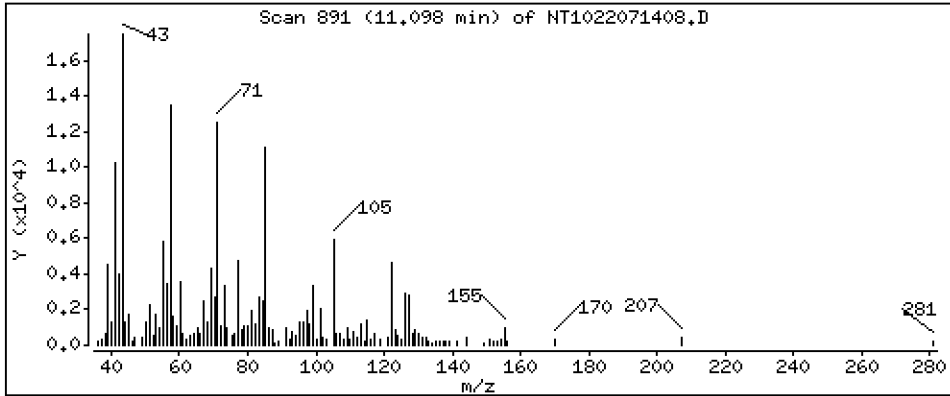
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,7049 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

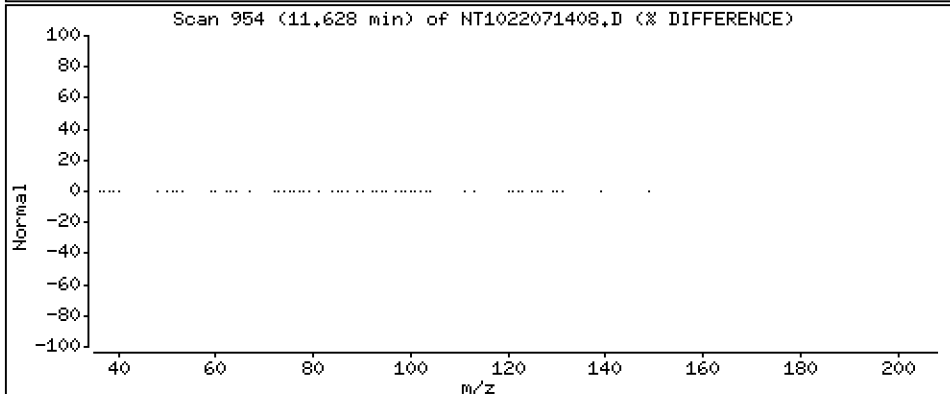
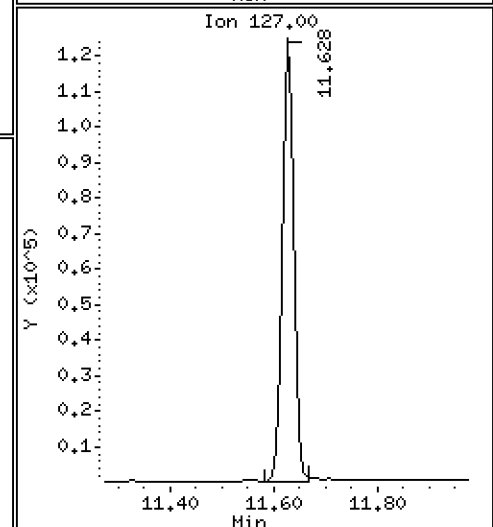
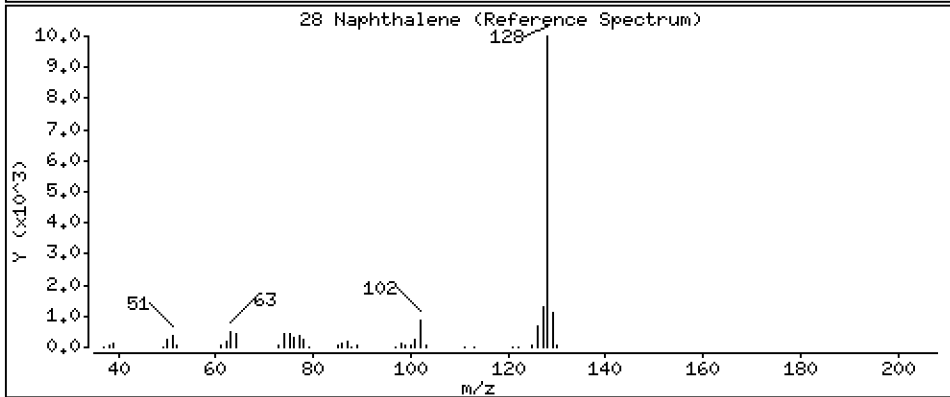
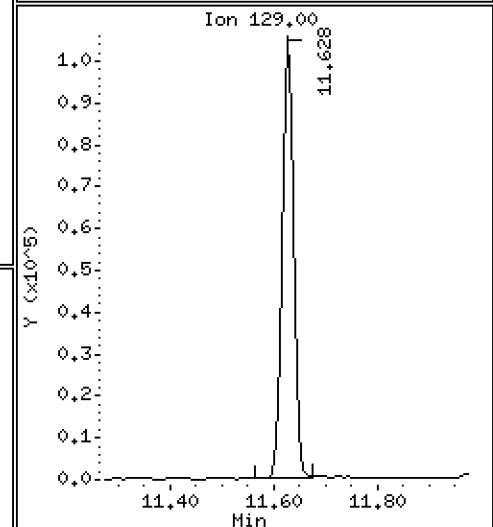
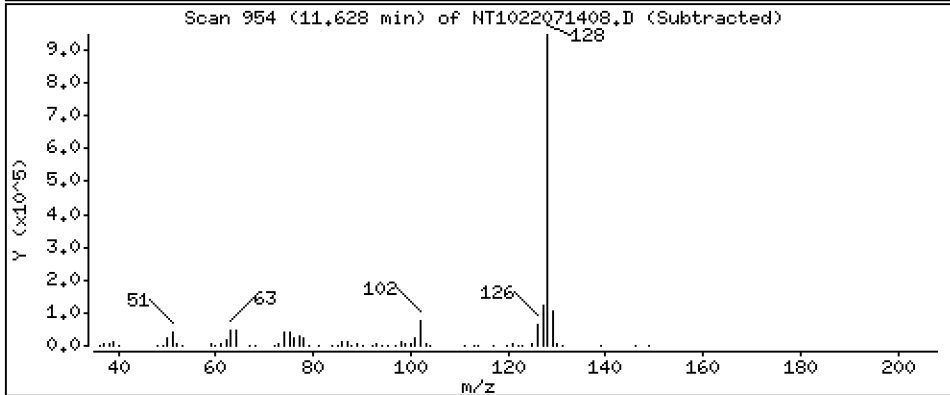
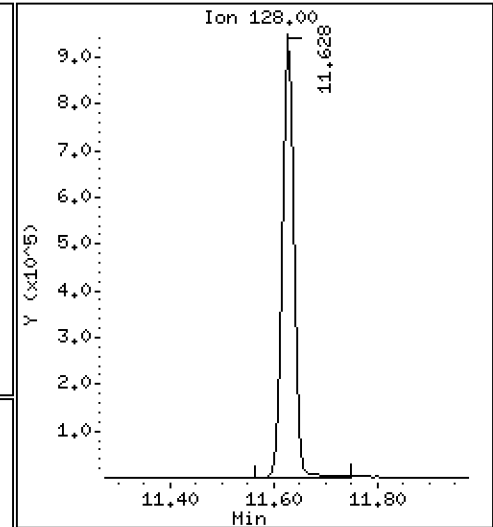
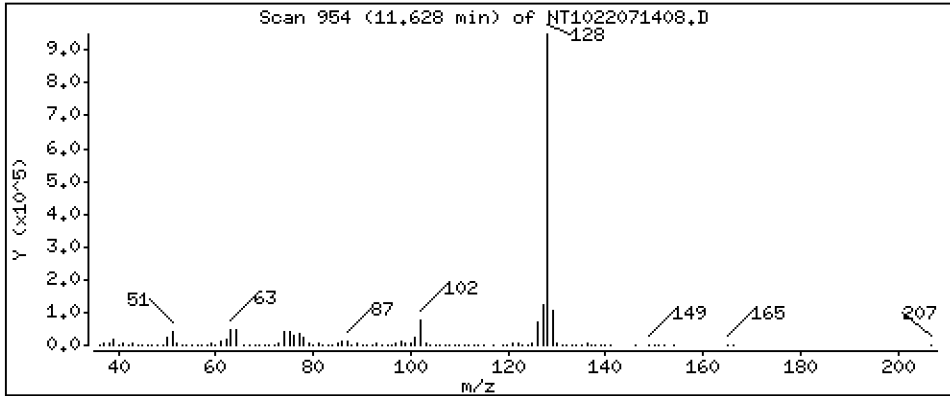
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 6,878 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 2200019-02

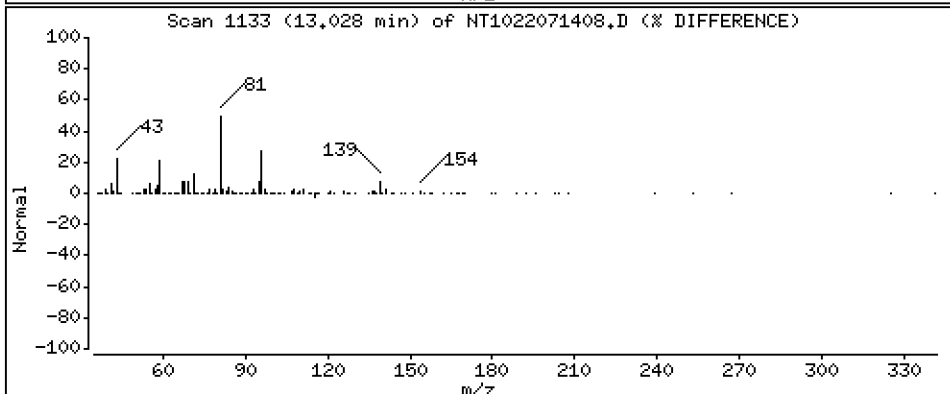
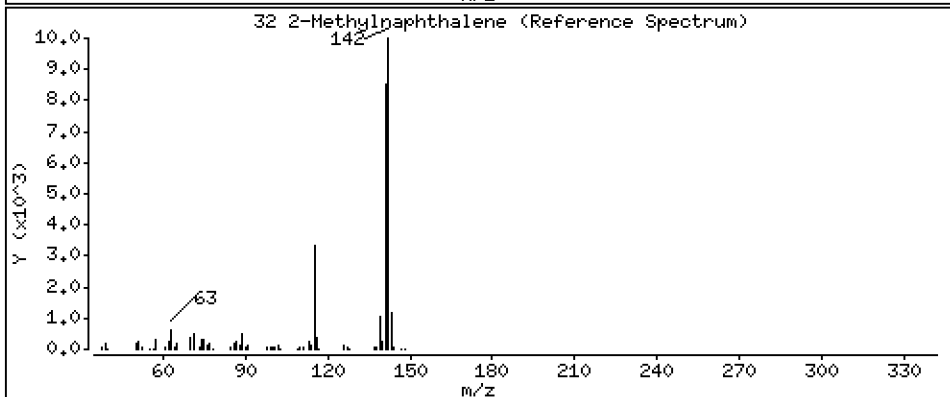
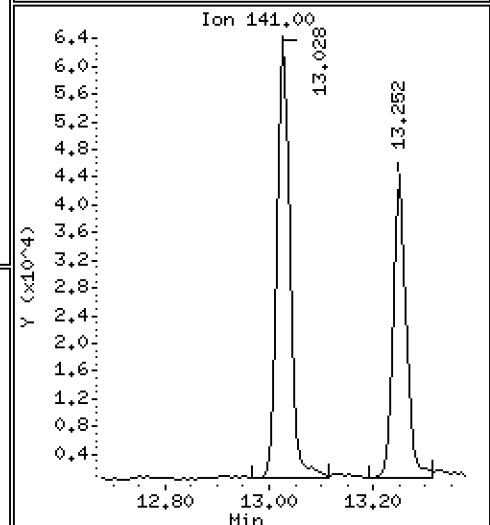
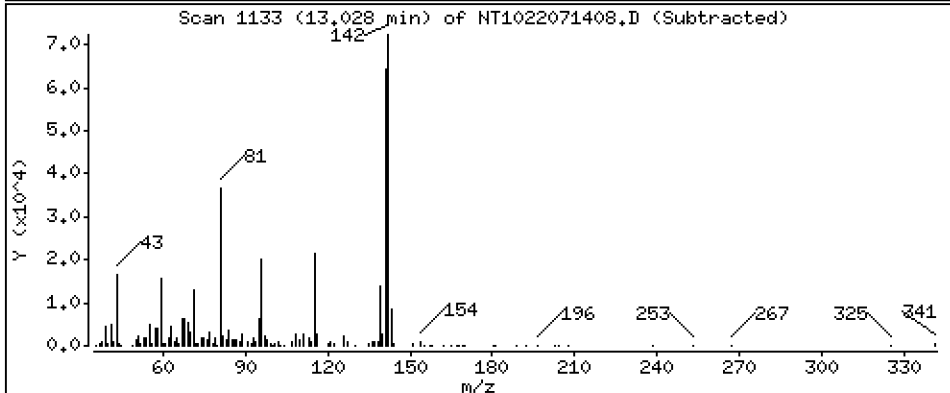
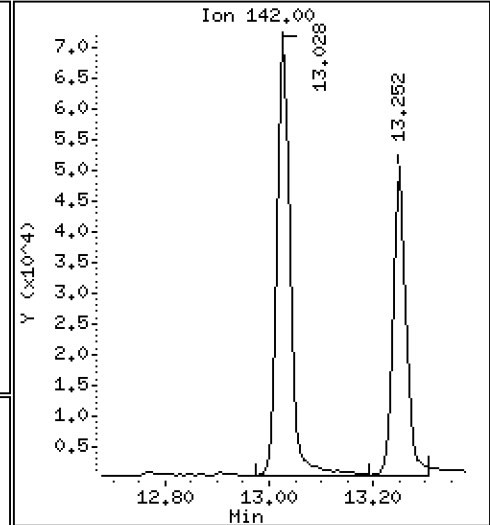
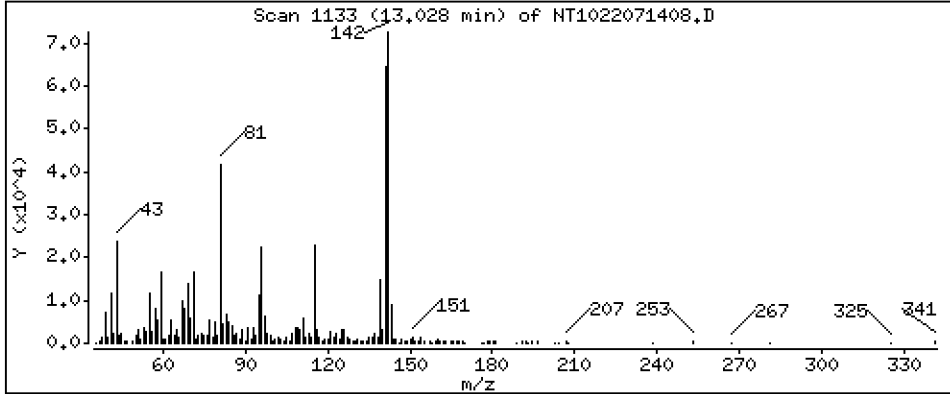
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,5390 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

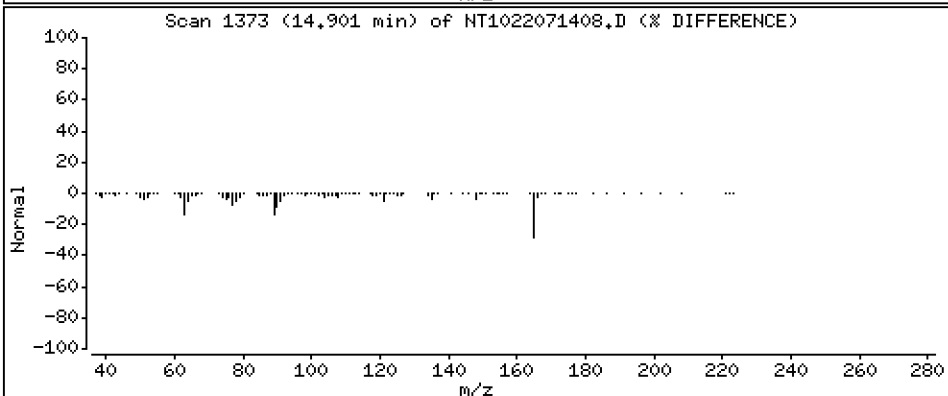
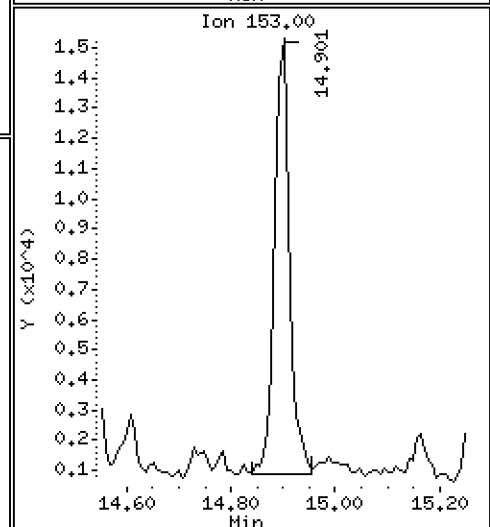
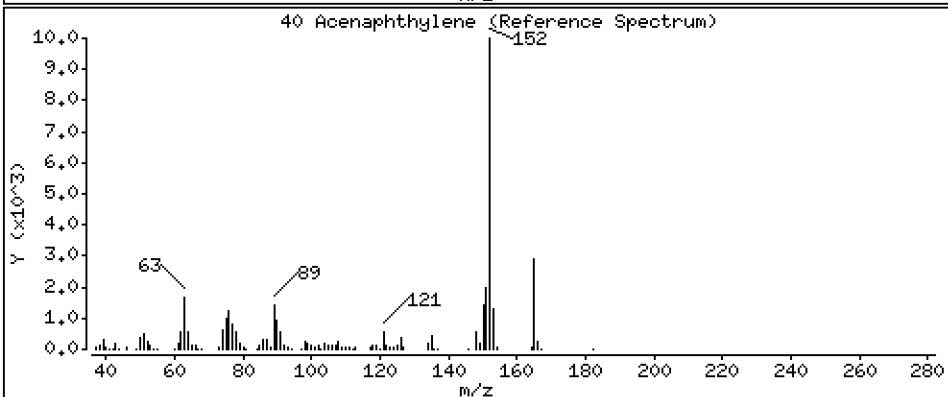
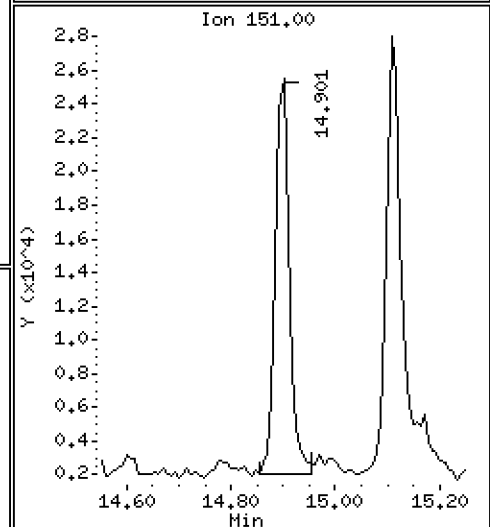
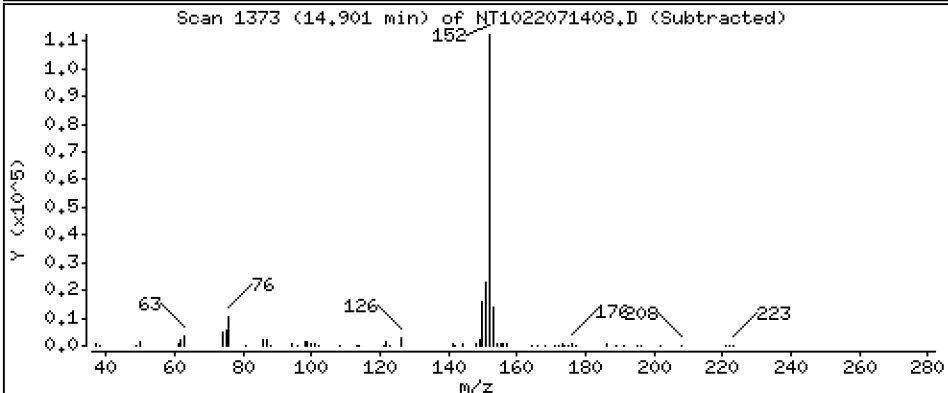
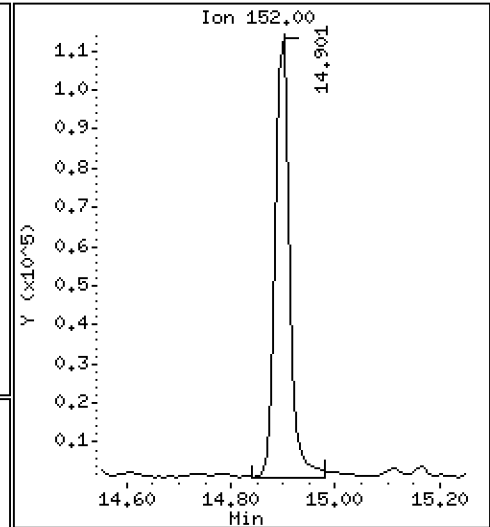
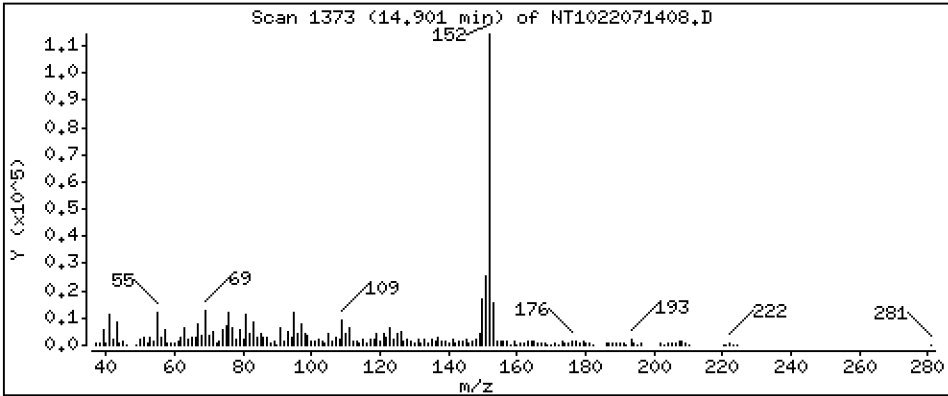
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,9652 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 2200019-02

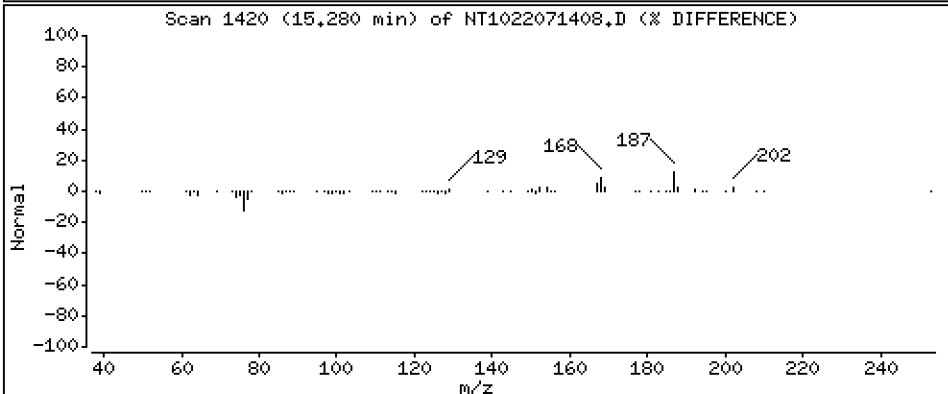
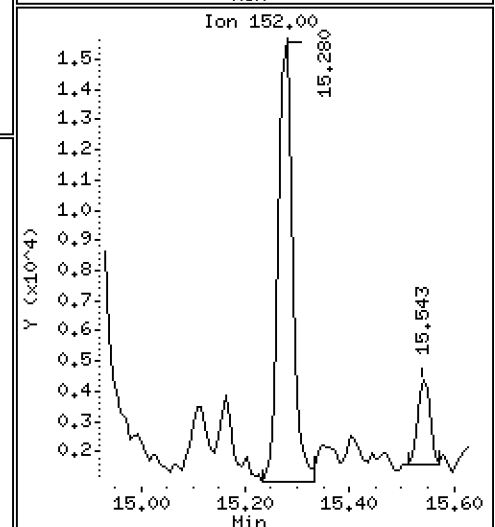
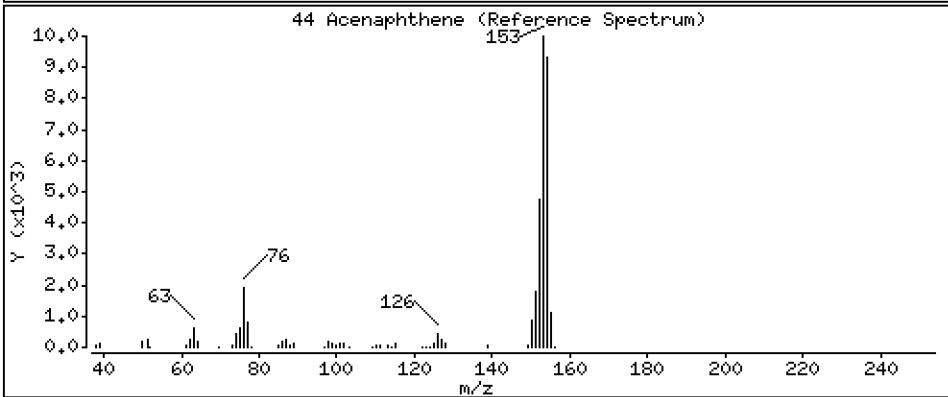
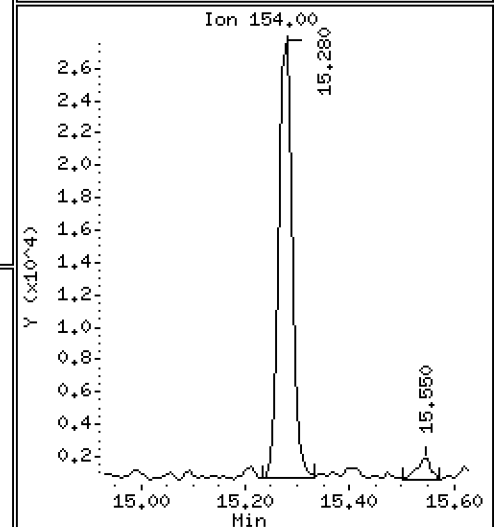
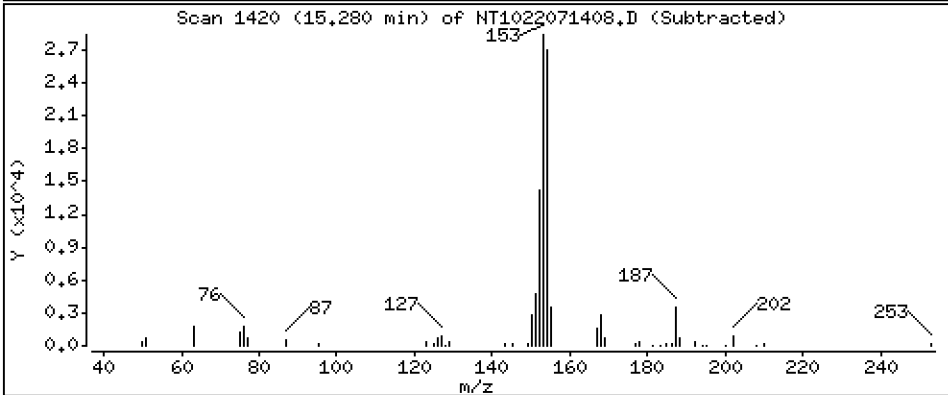
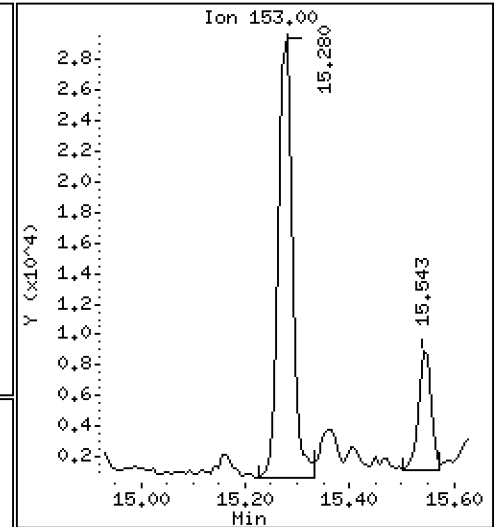
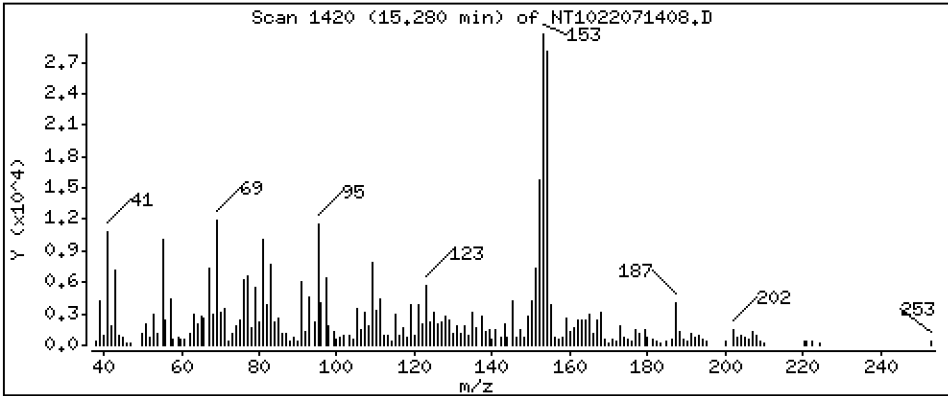
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.4917 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

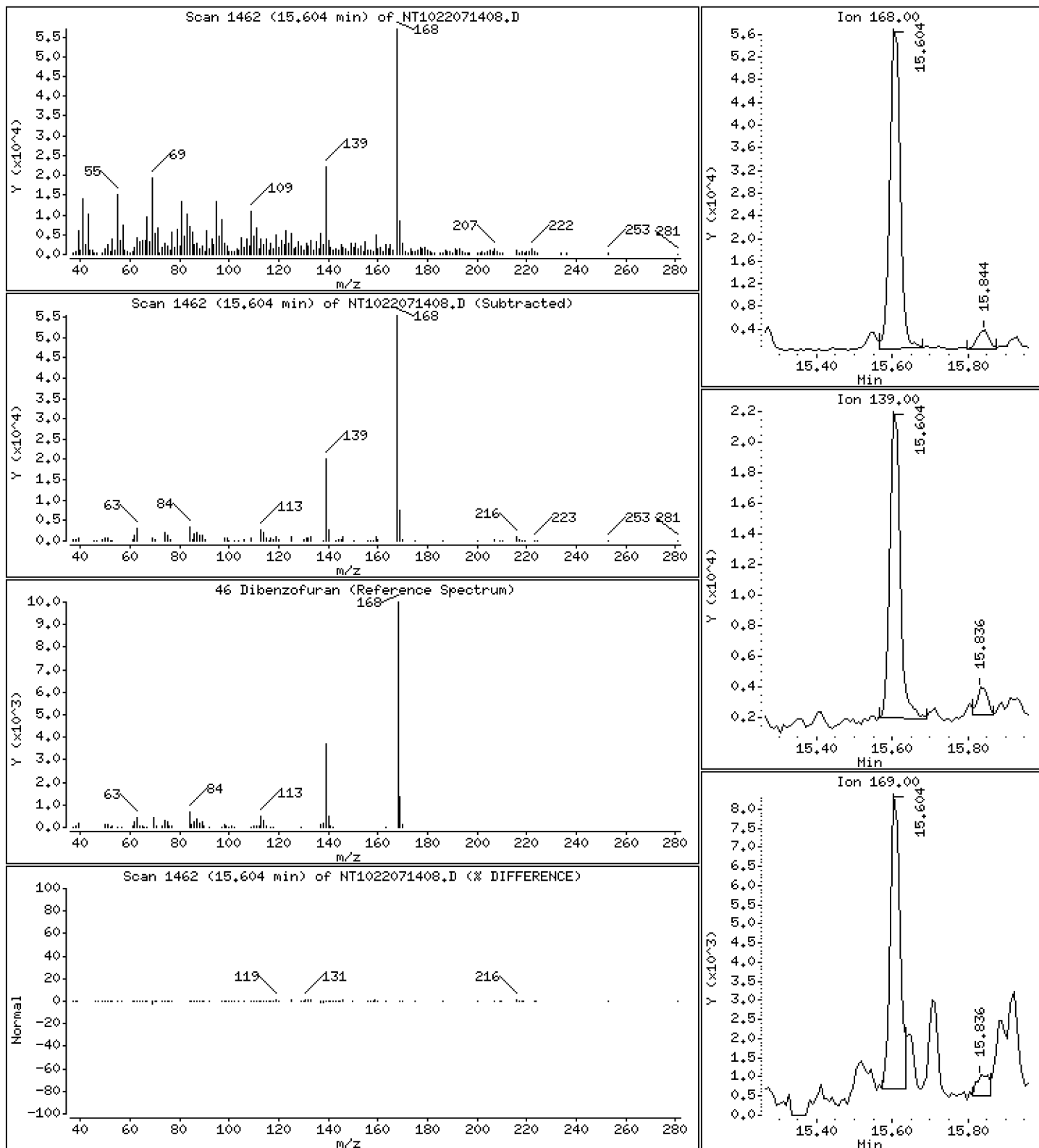
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,6014 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

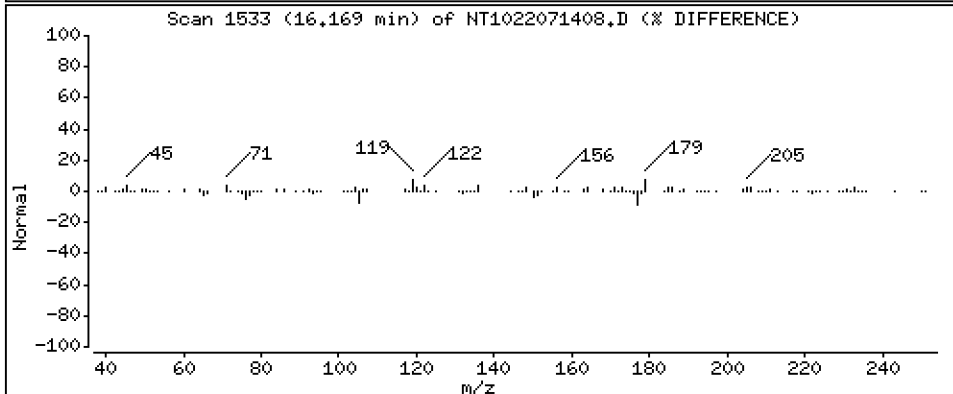
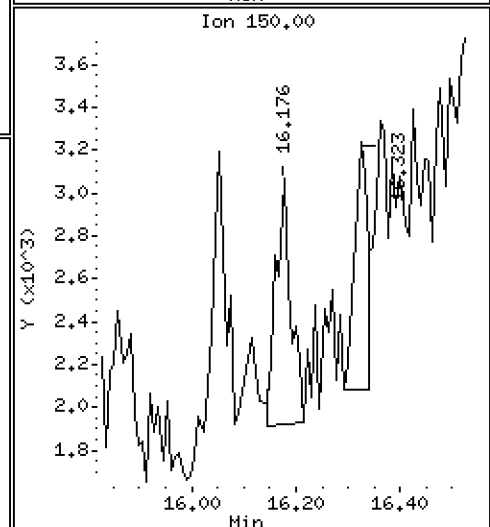
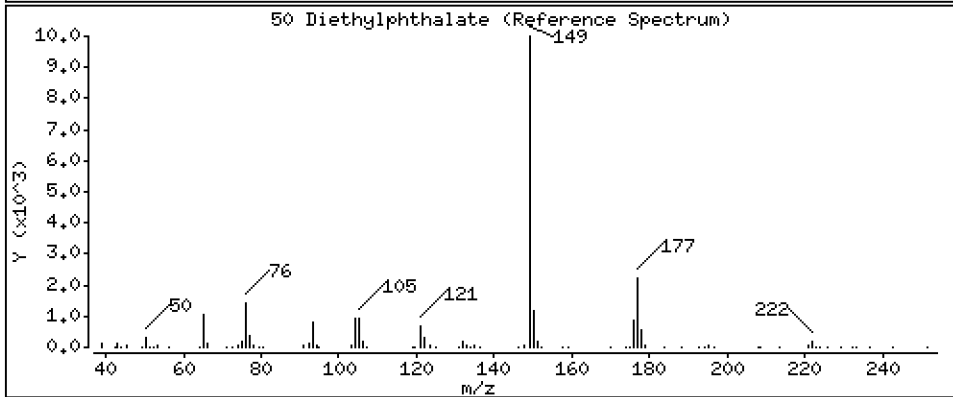
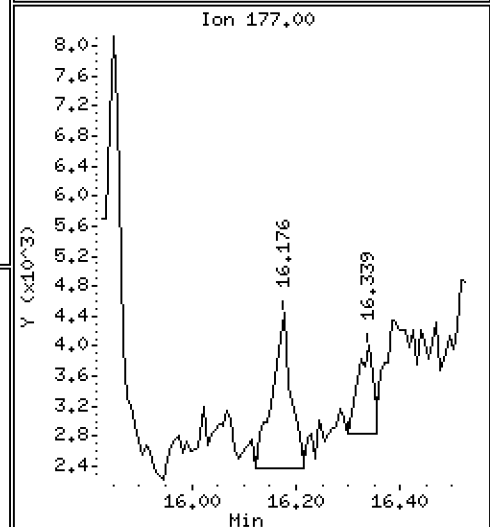
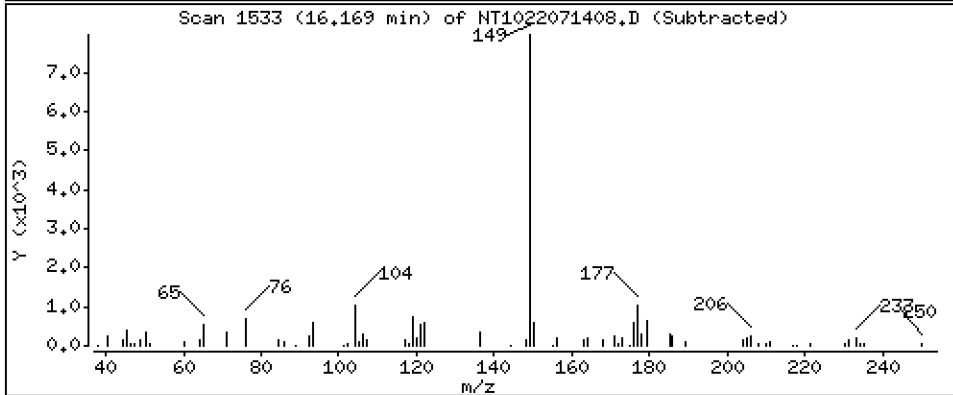
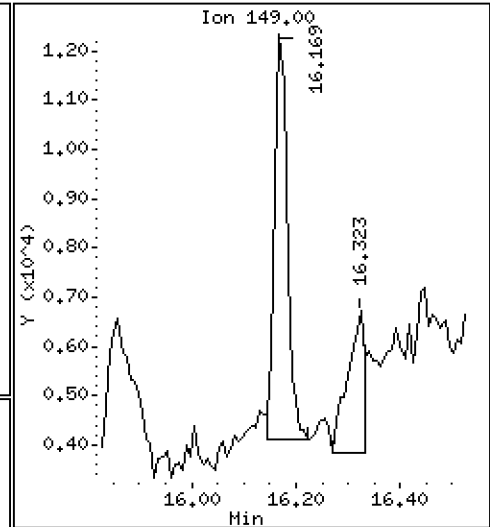
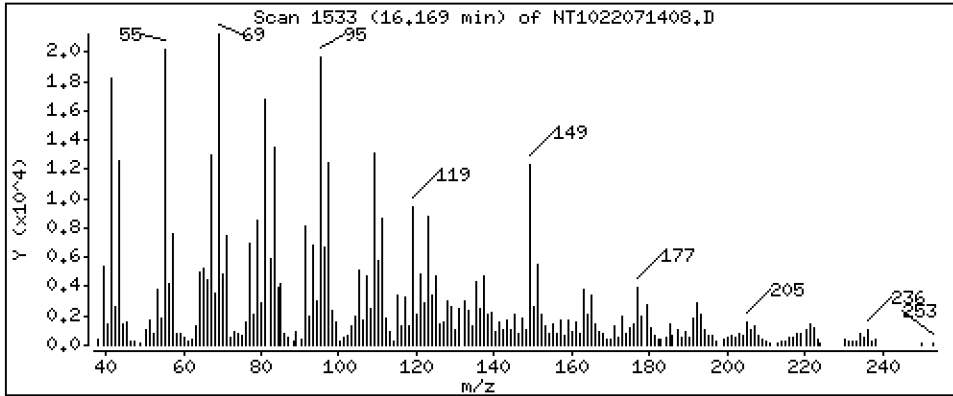
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1211 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

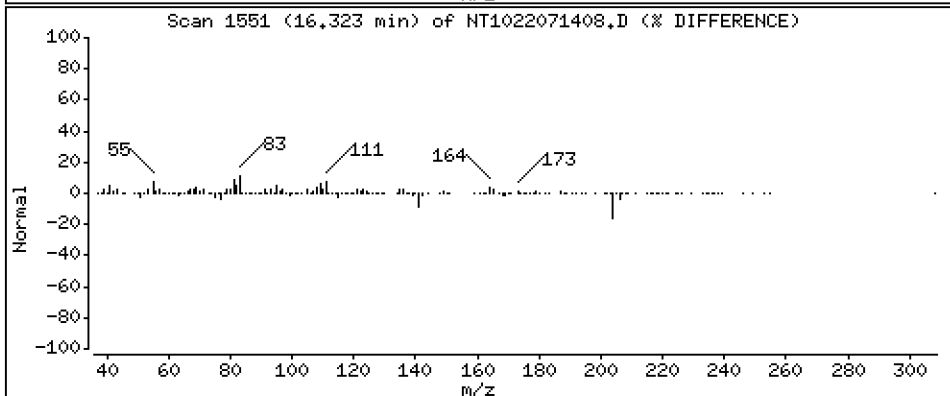
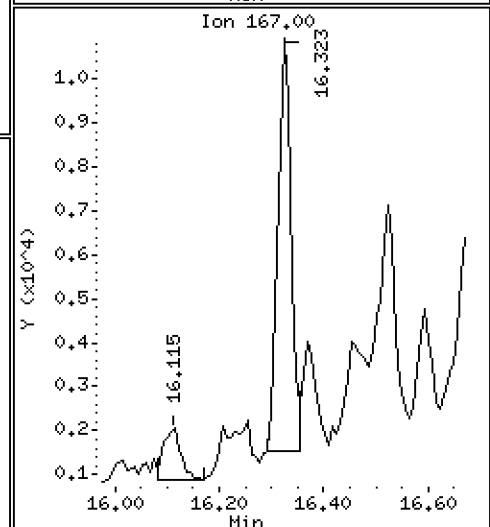
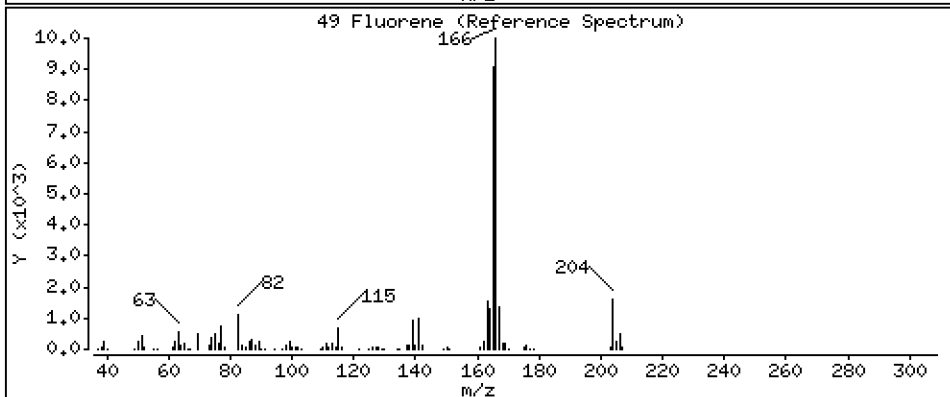
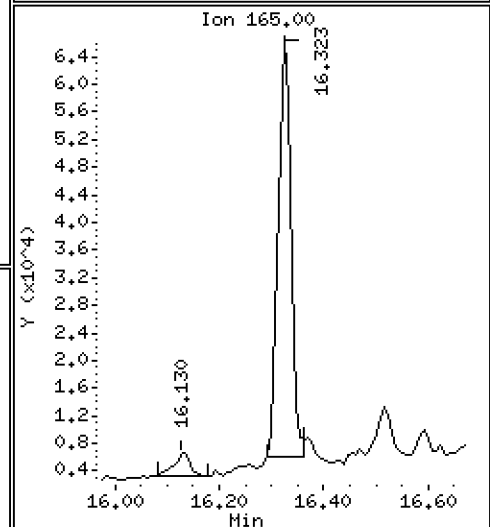
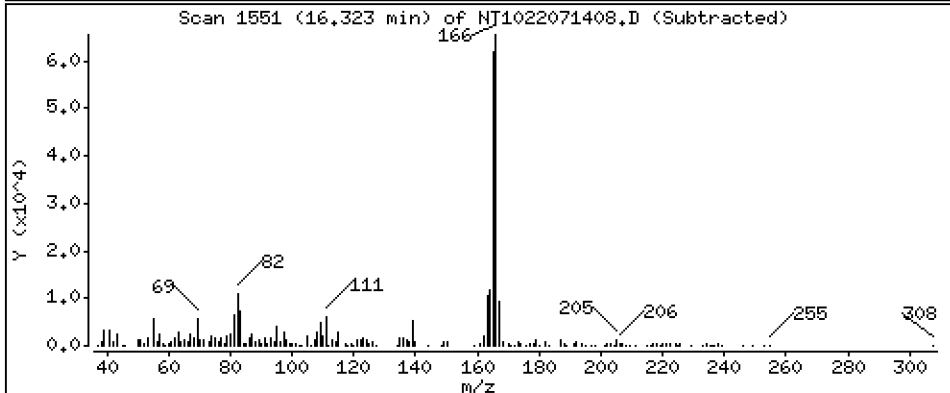
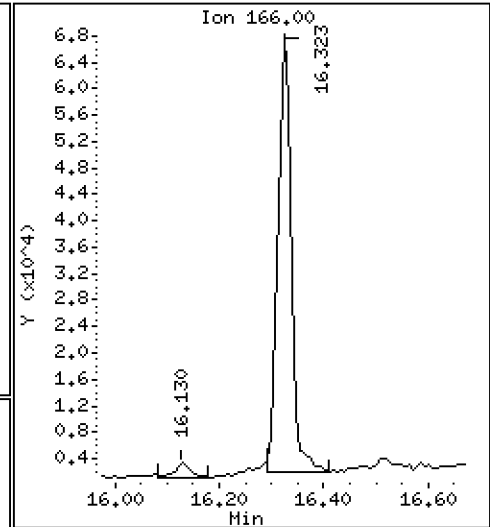
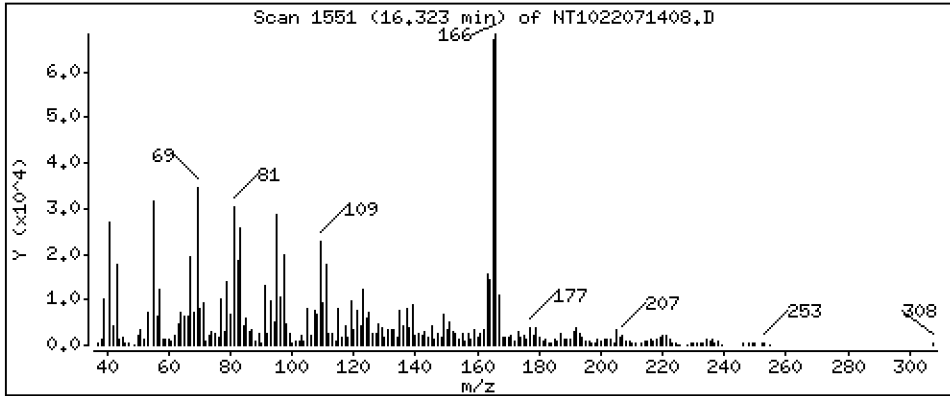
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.4714 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

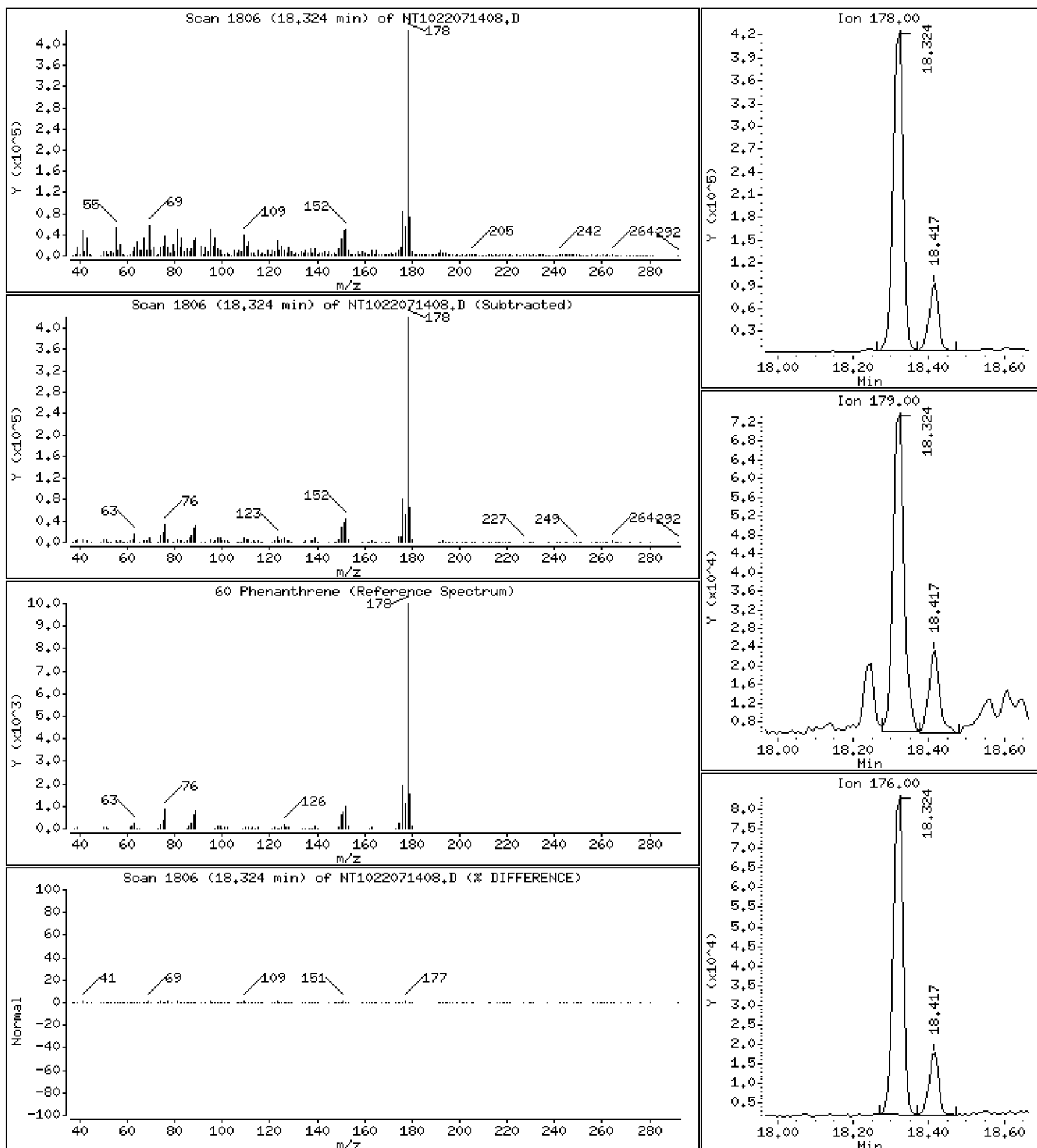
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 7,492 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

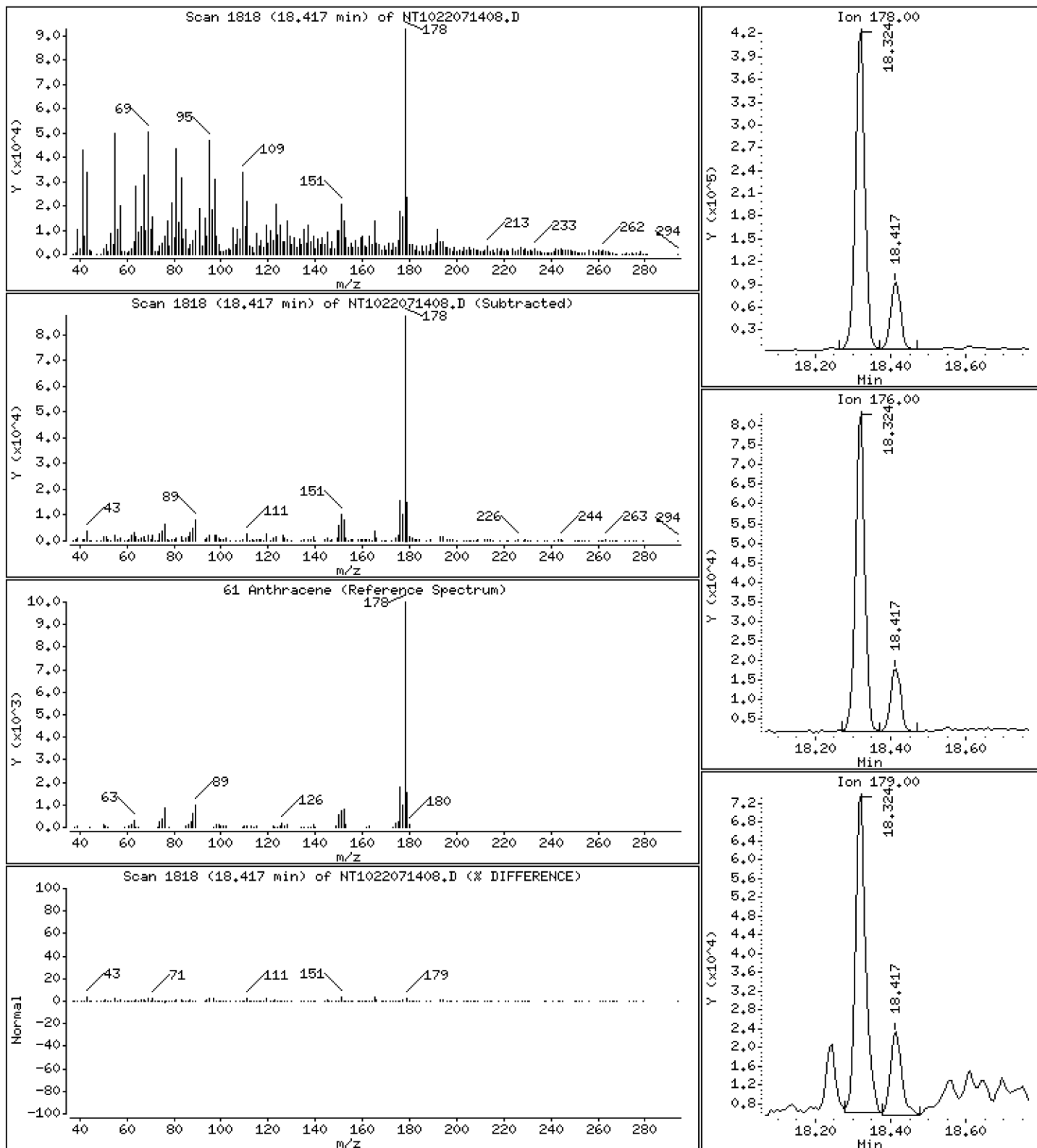
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 1,508 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

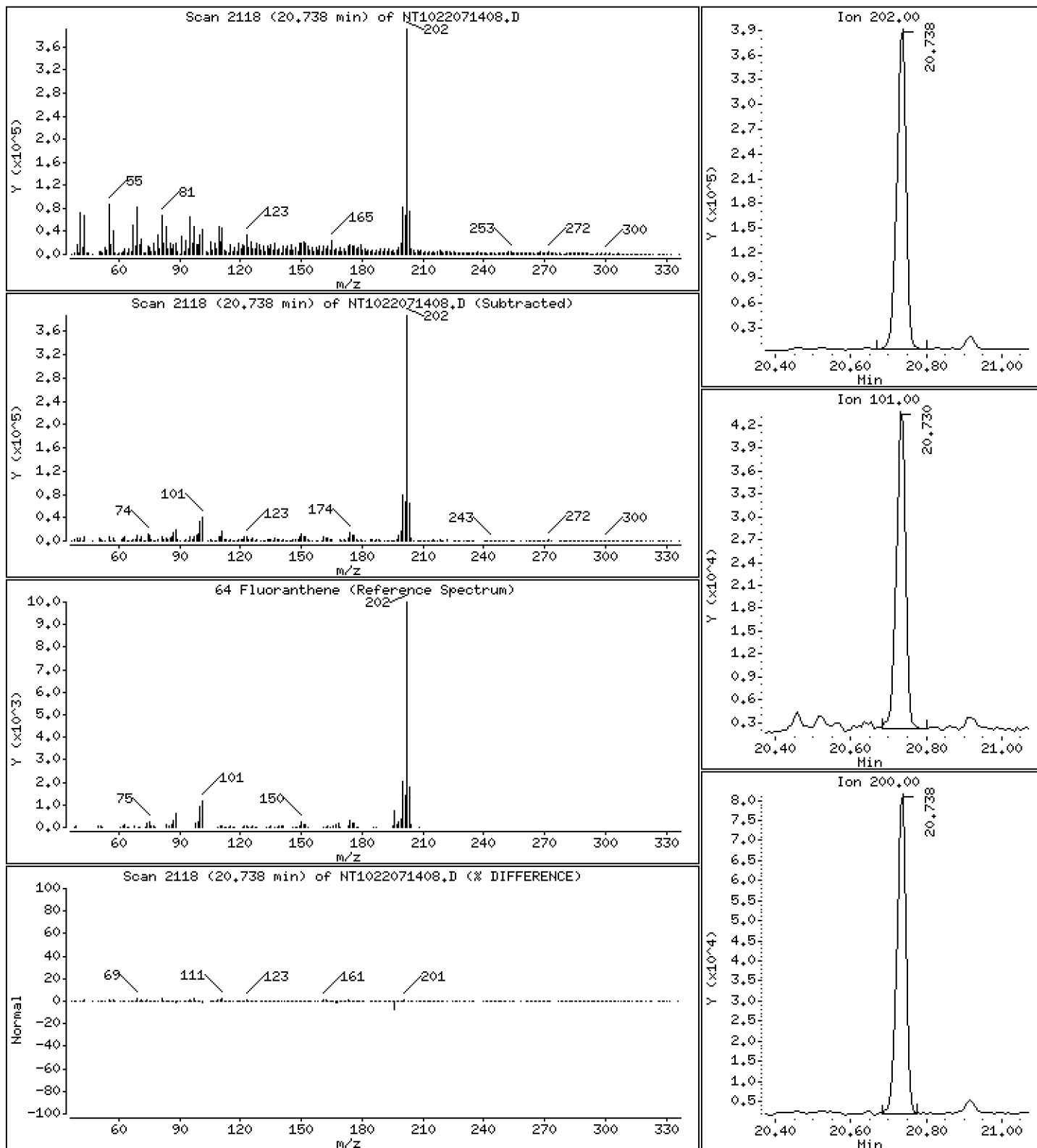
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,068 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

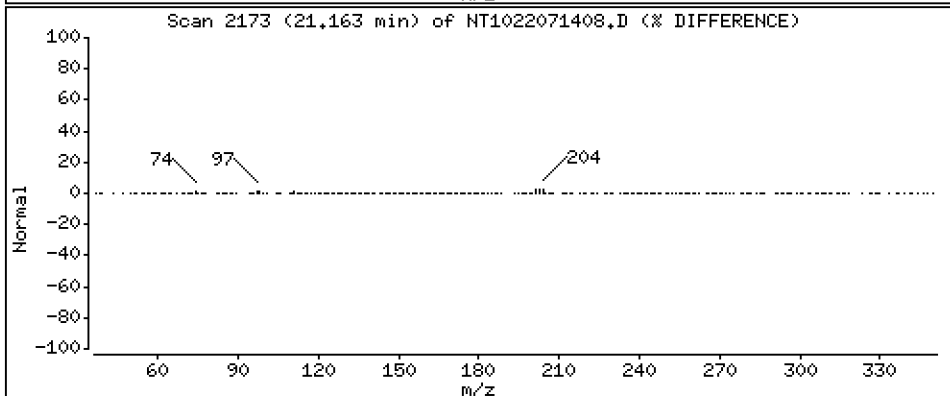
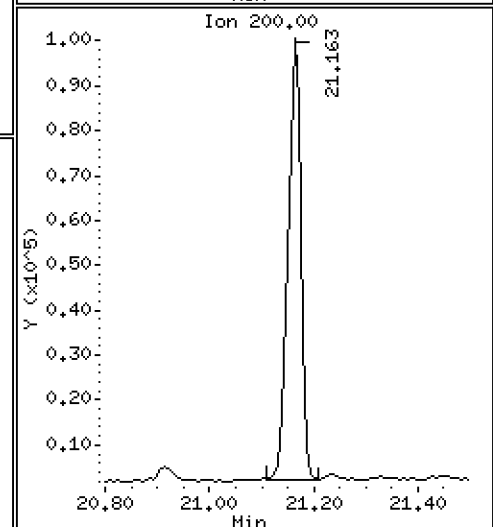
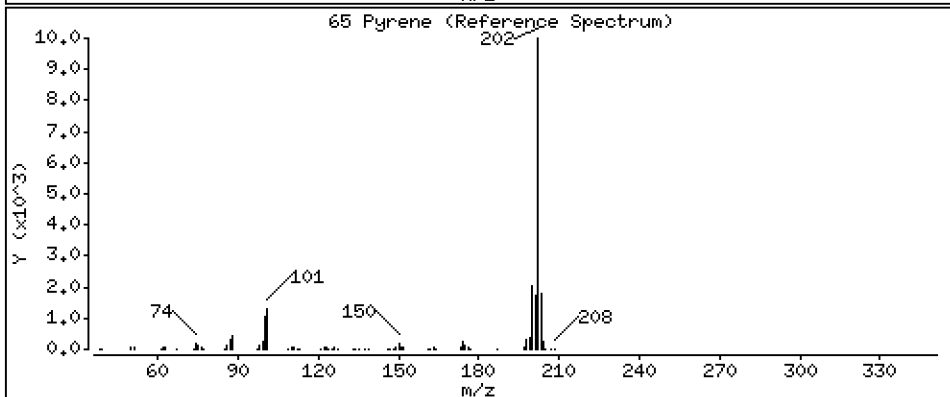
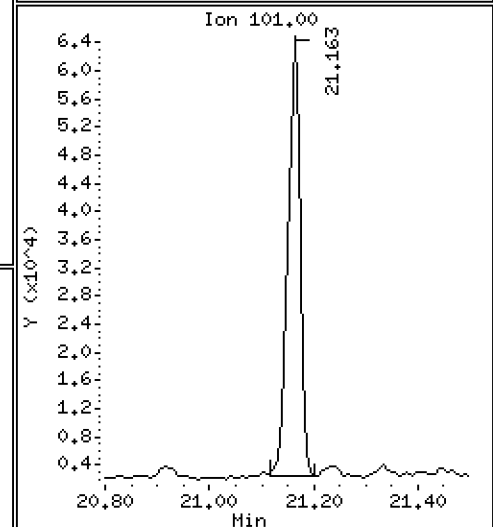
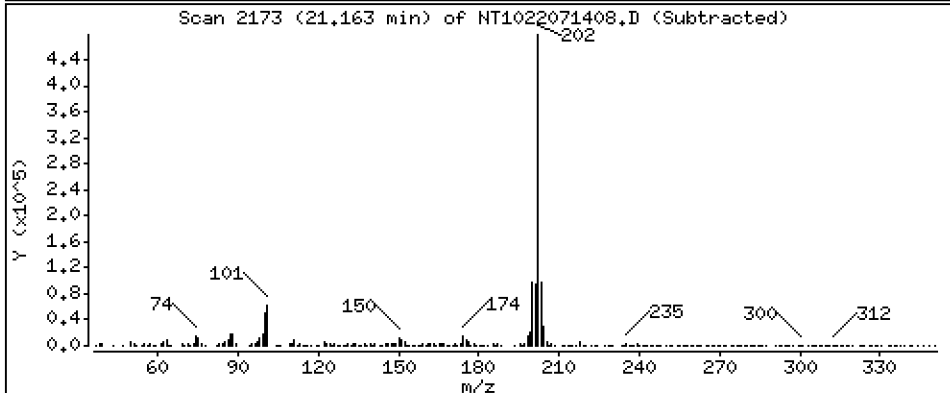
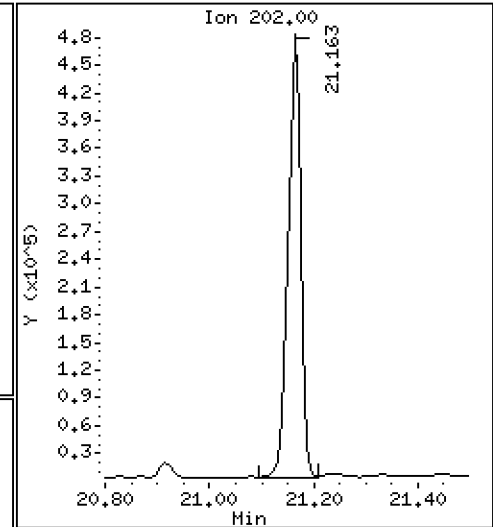
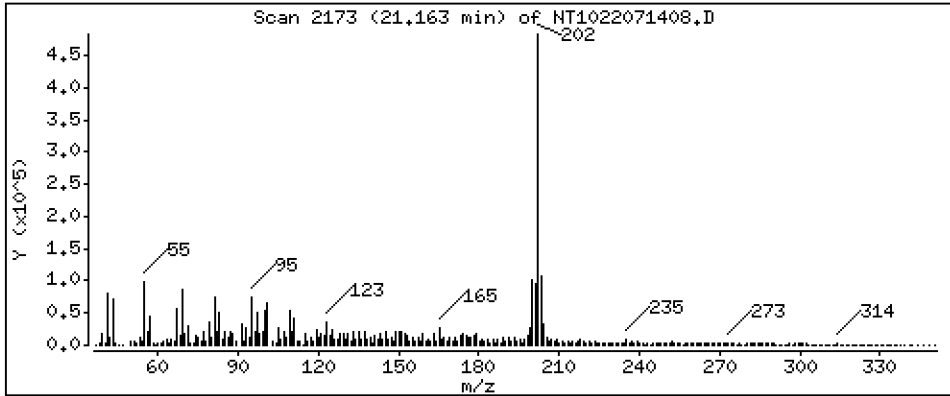
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 6,782 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

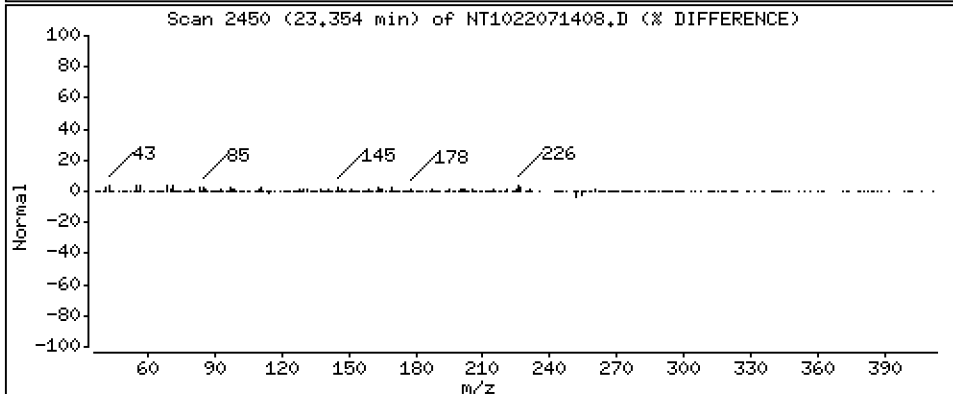
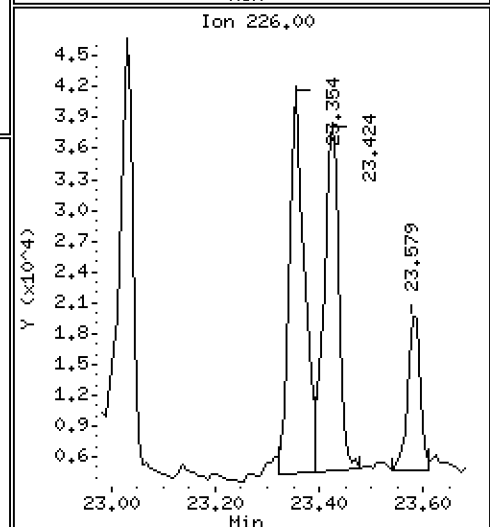
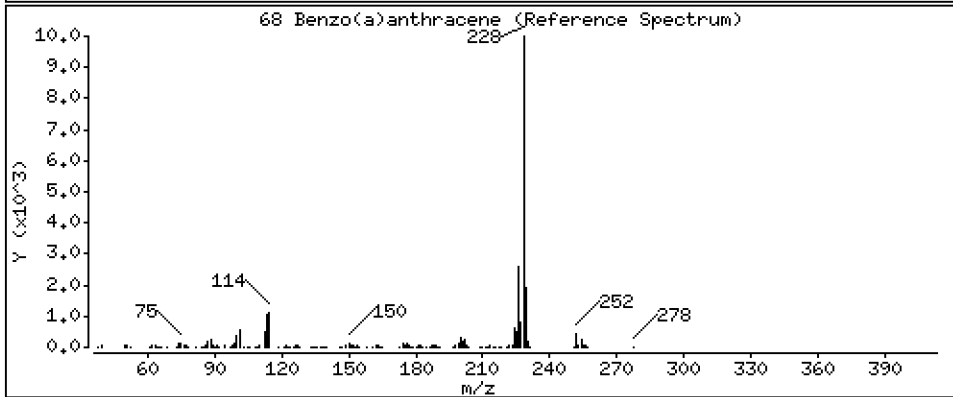
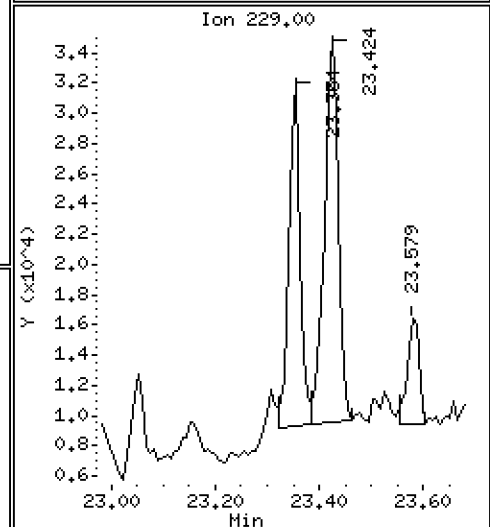
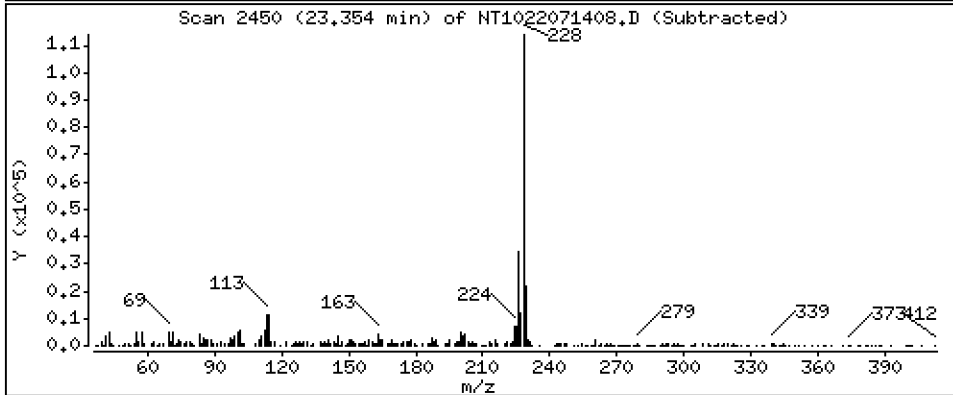
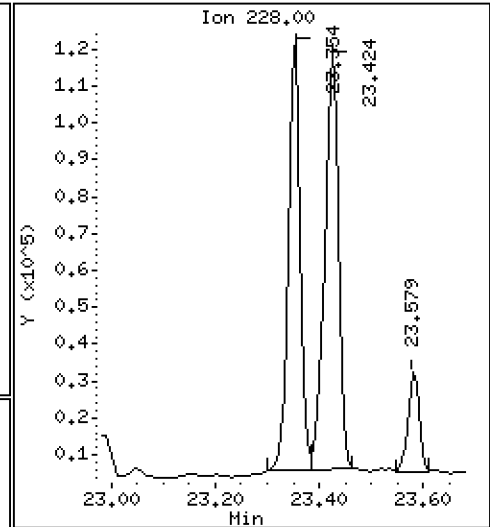
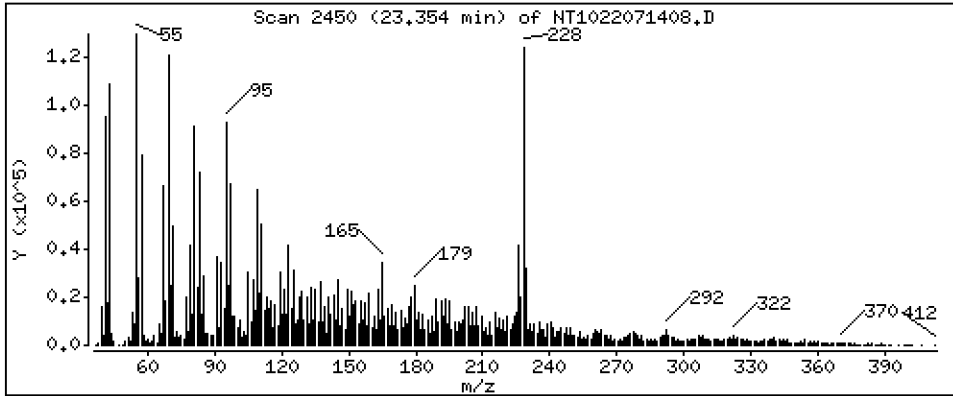
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 2,536 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

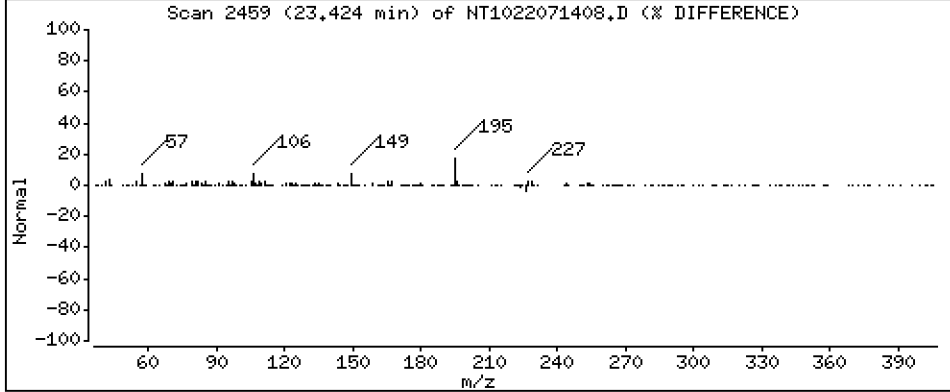
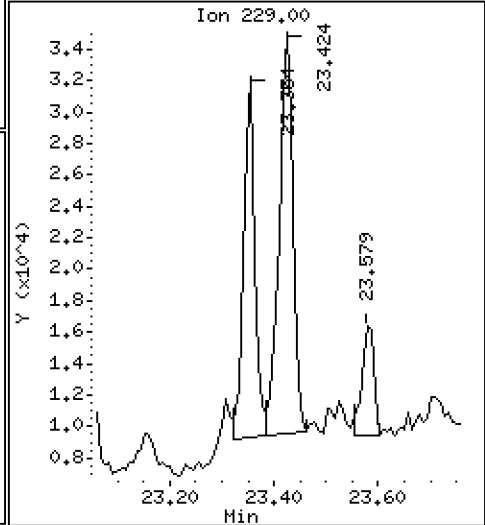
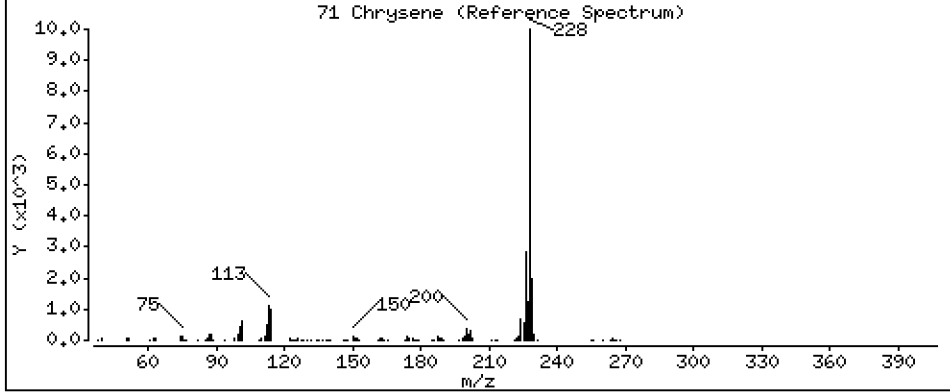
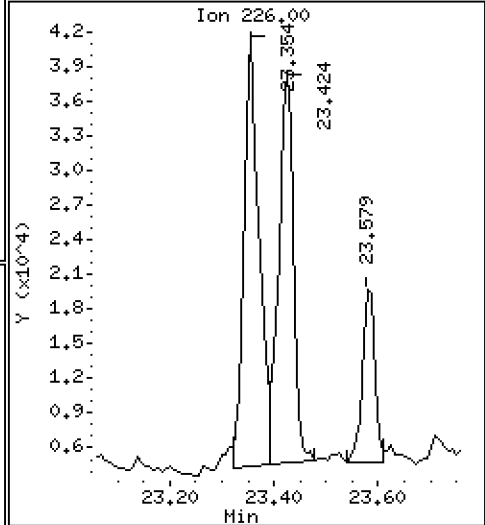
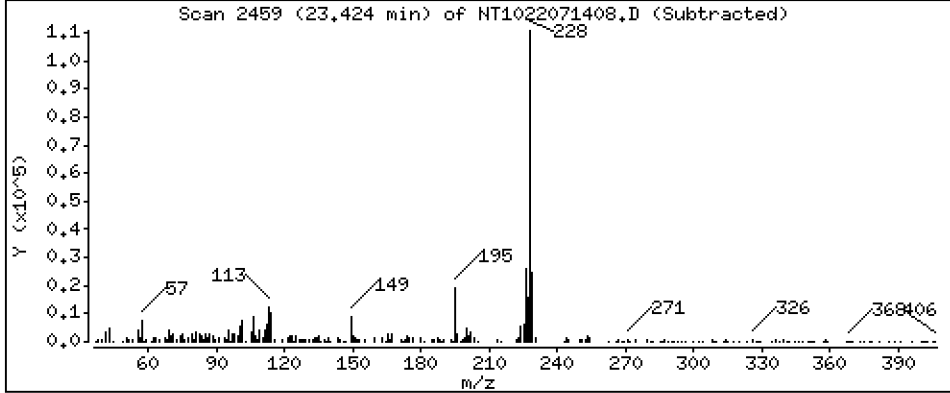
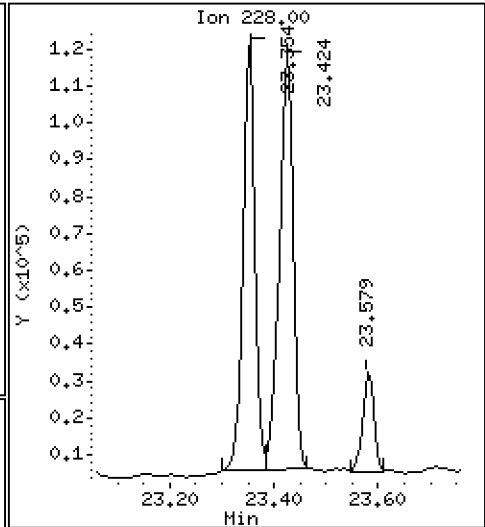
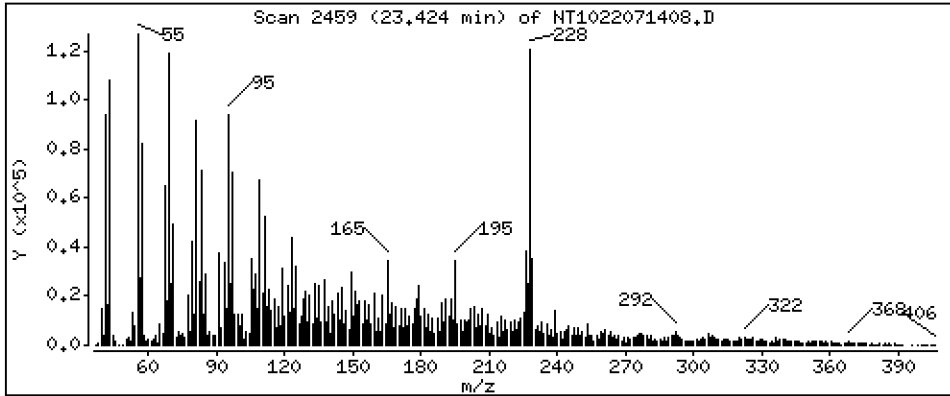
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,070 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

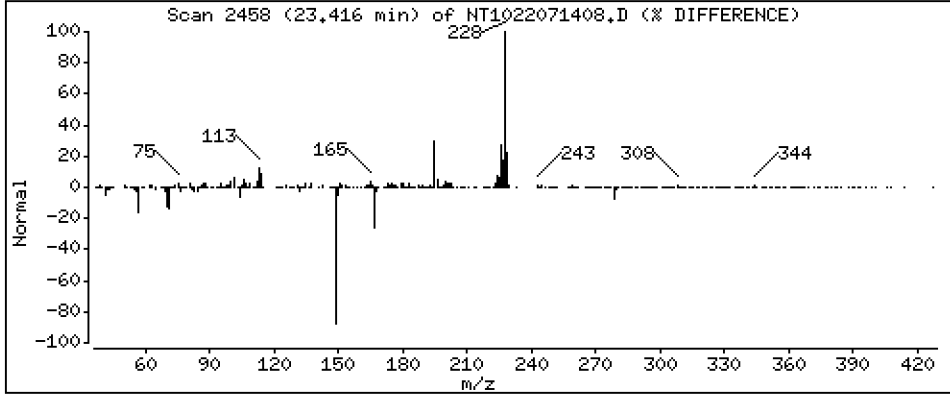
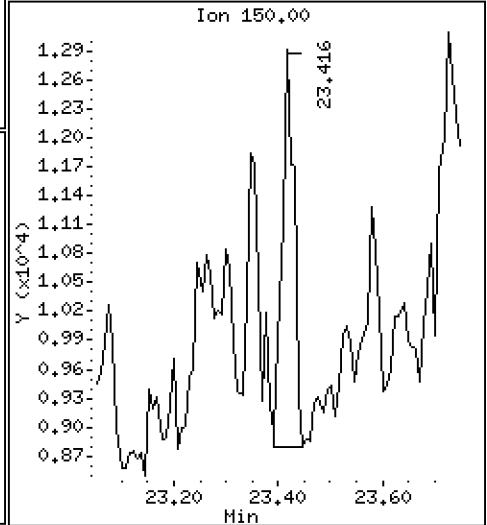
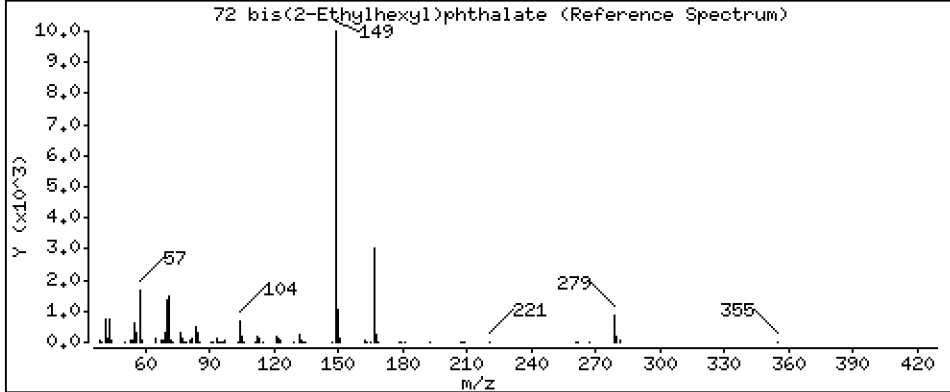
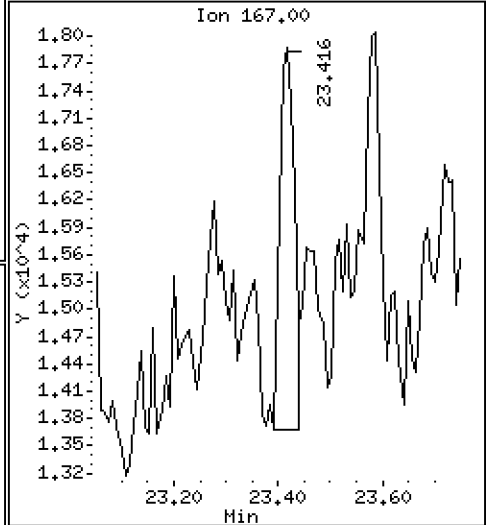
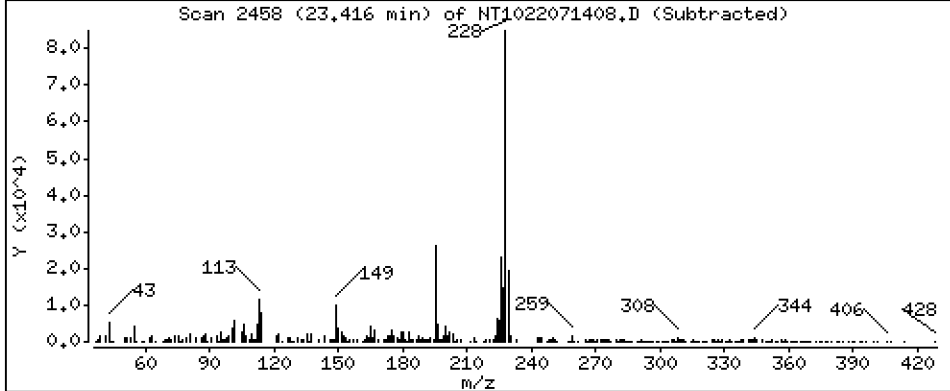
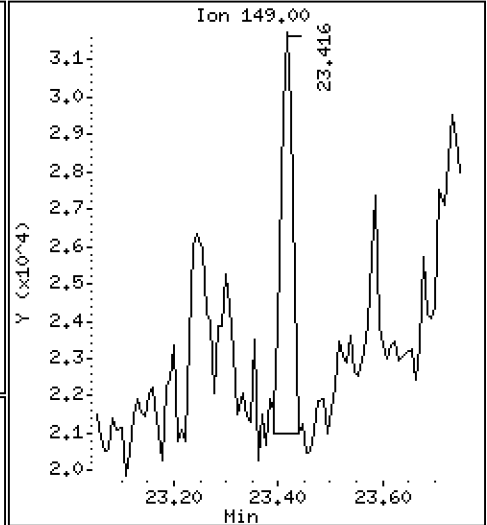
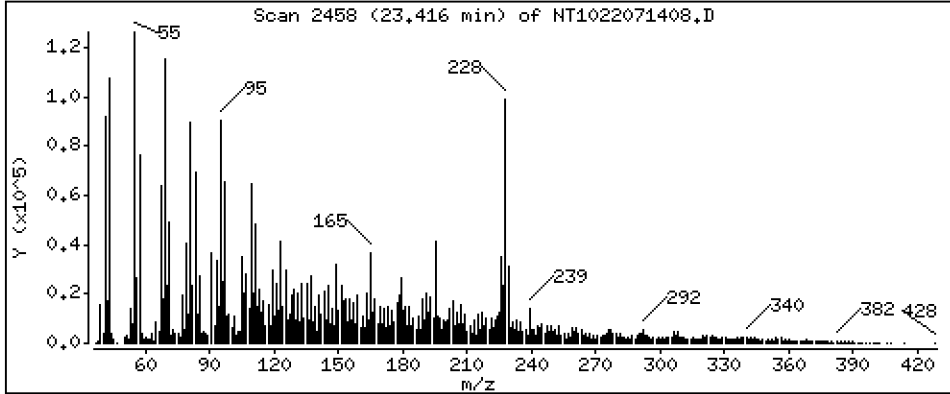
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4111 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

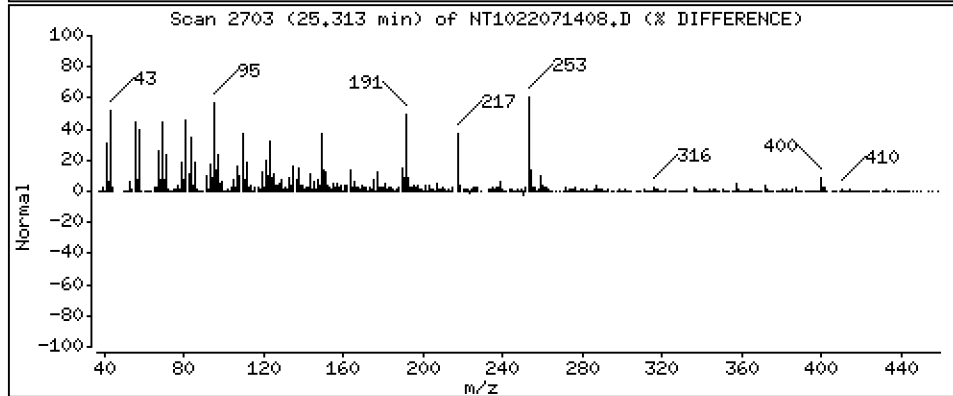
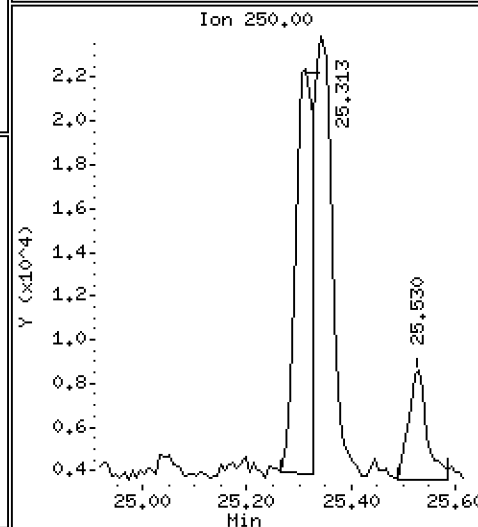
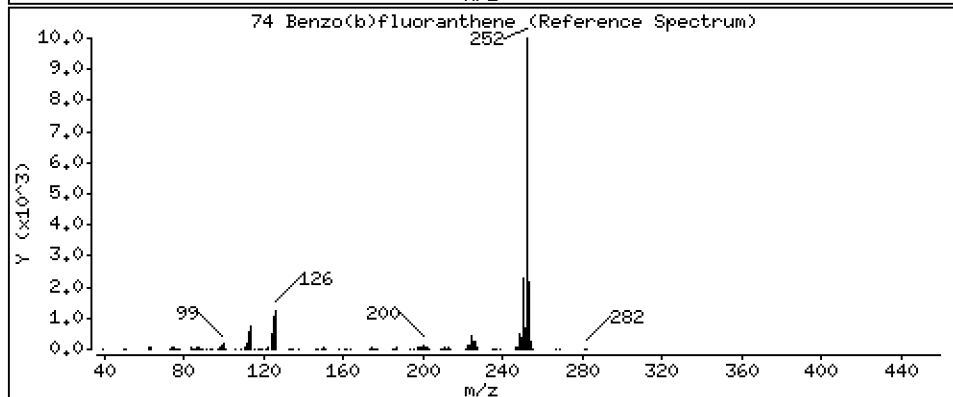
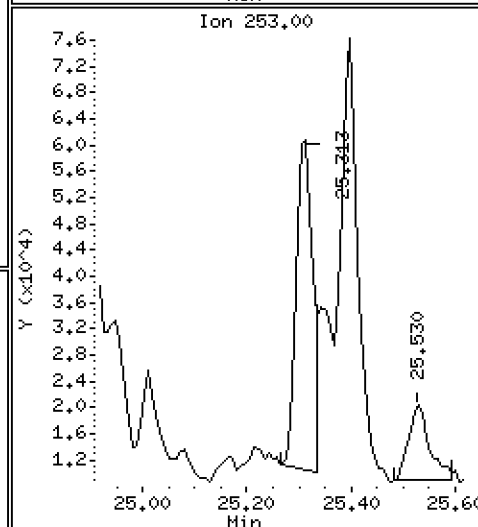
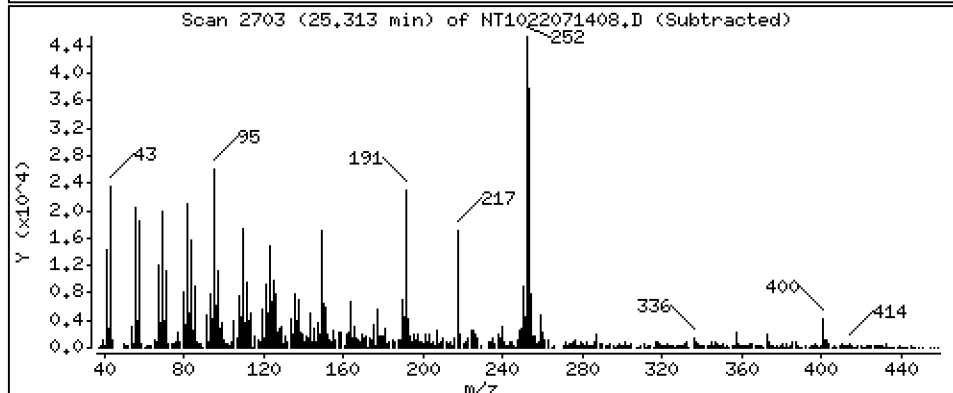
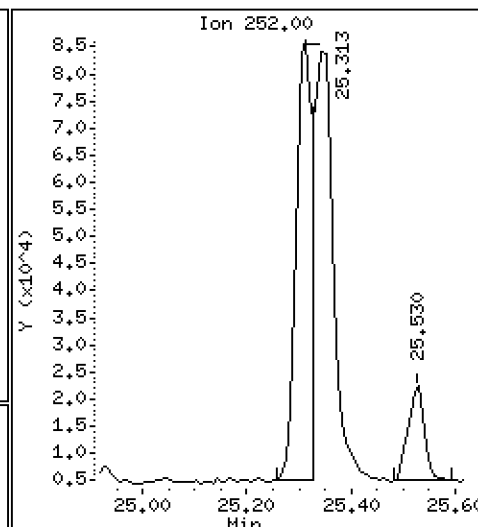
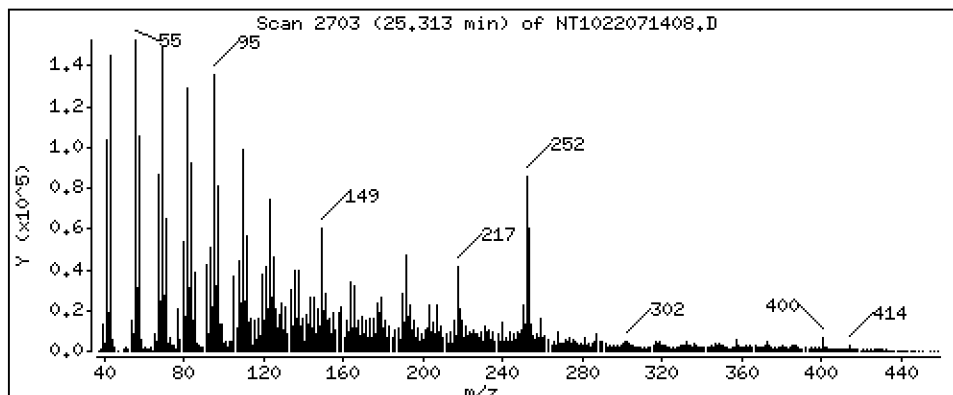
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 2,533 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

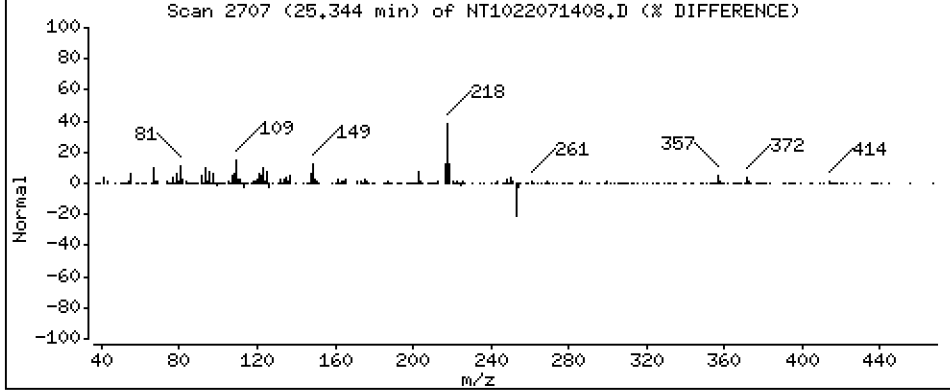
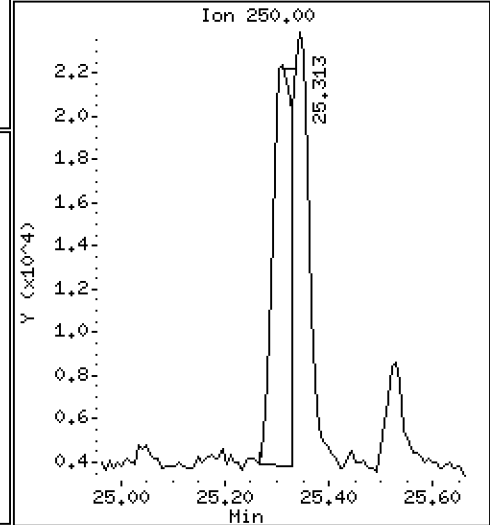
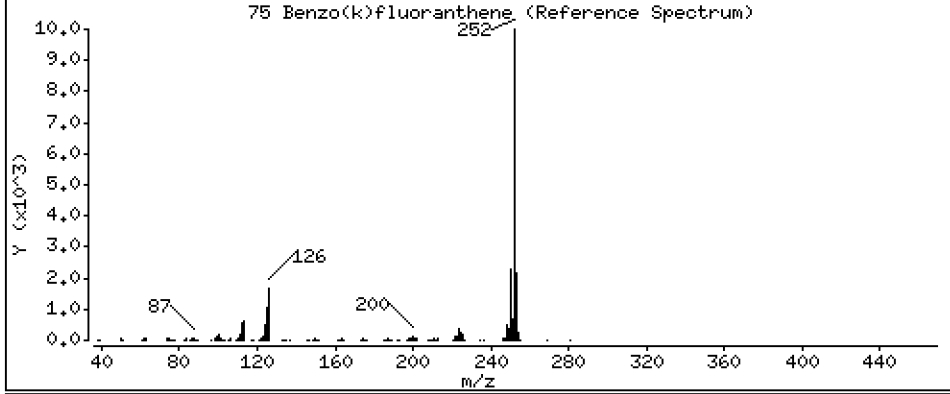
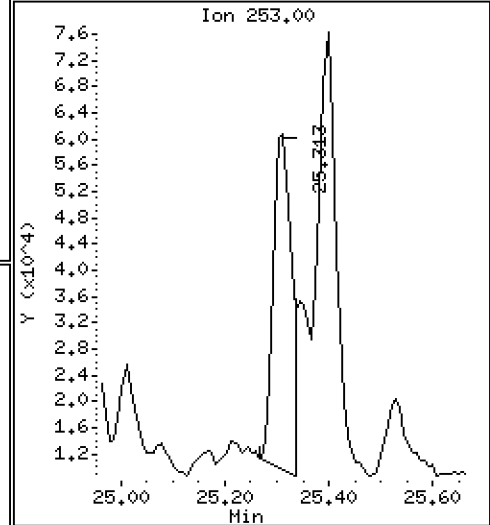
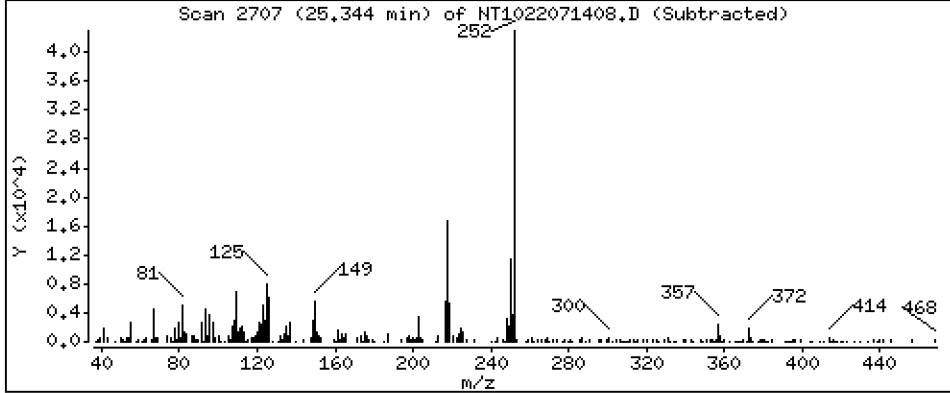
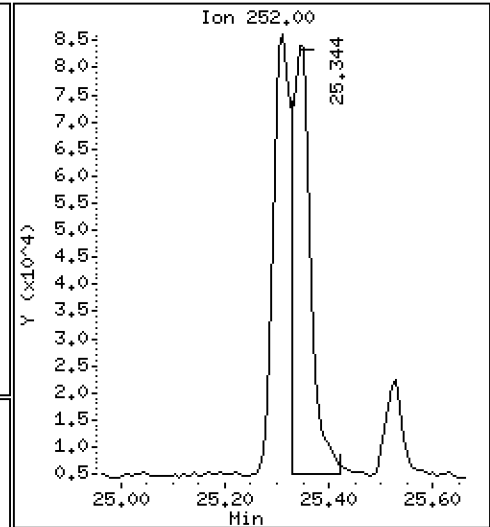
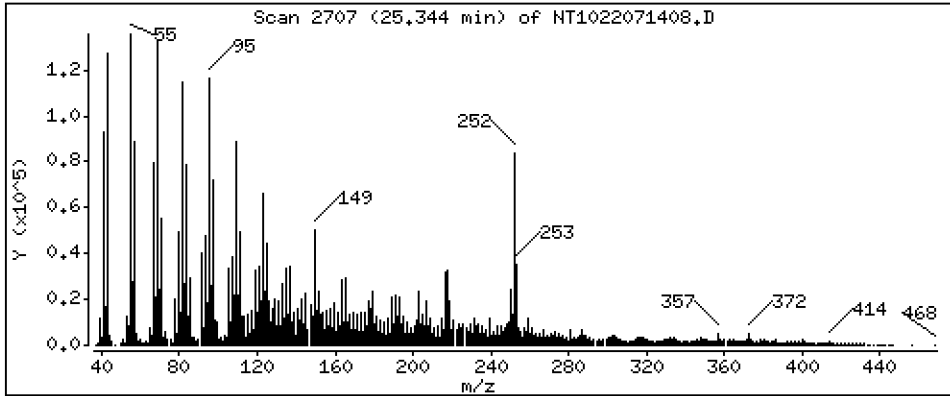
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 2,848 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

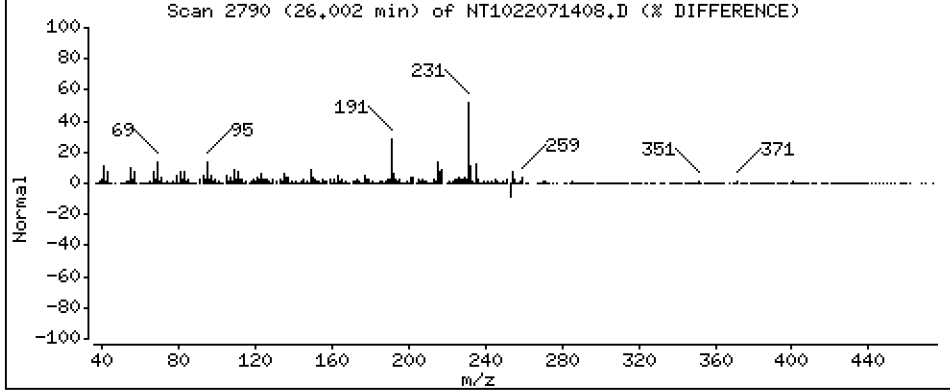
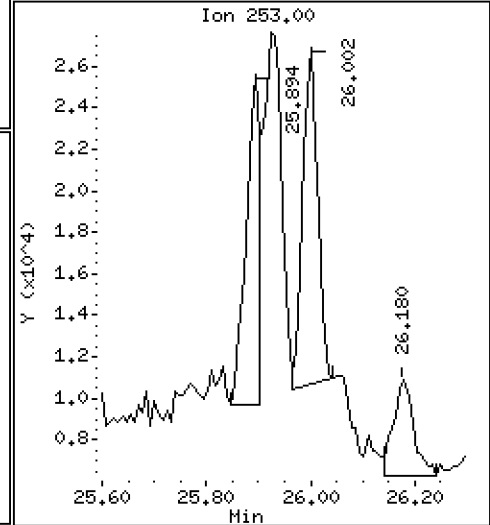
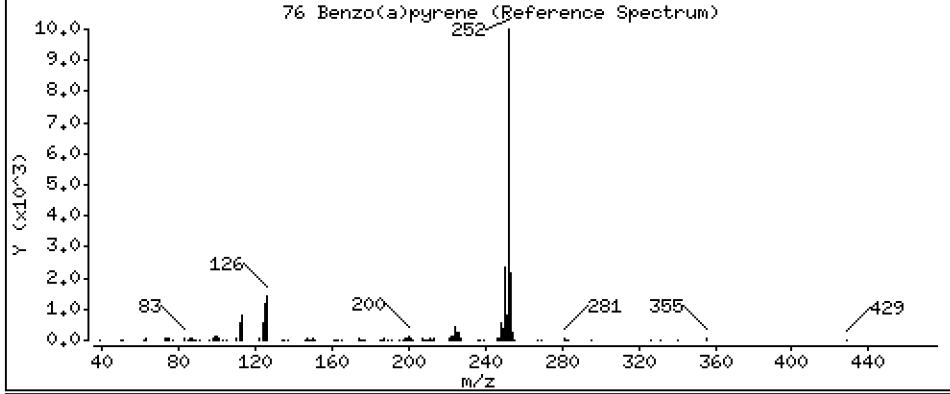
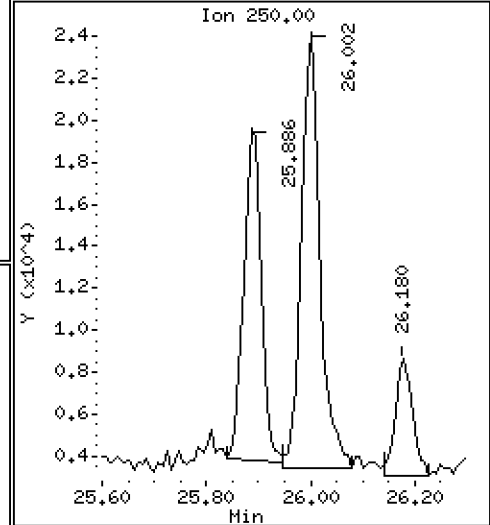
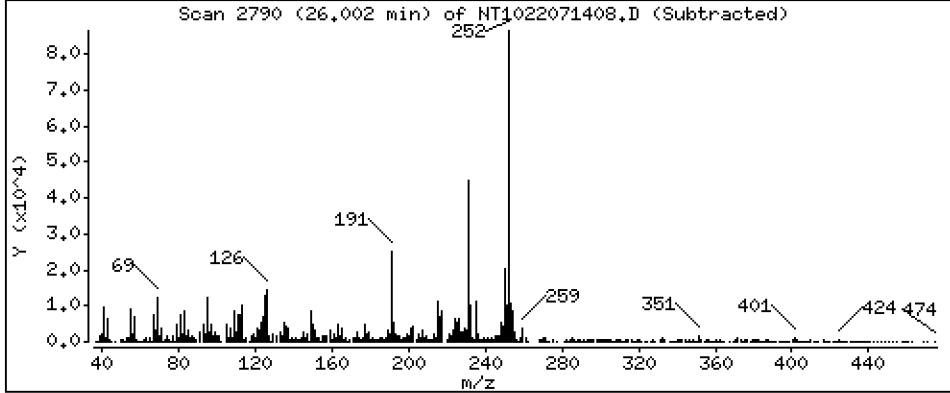
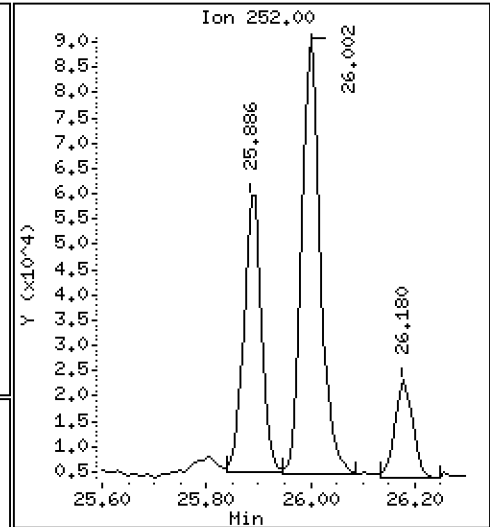
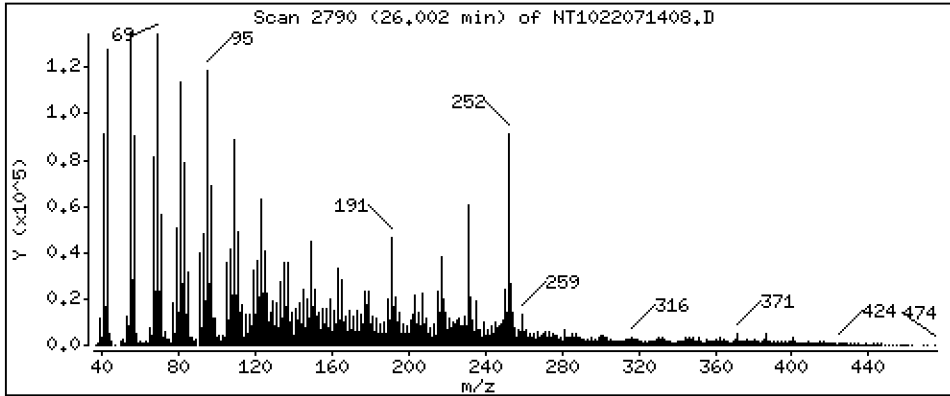
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 3,655 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

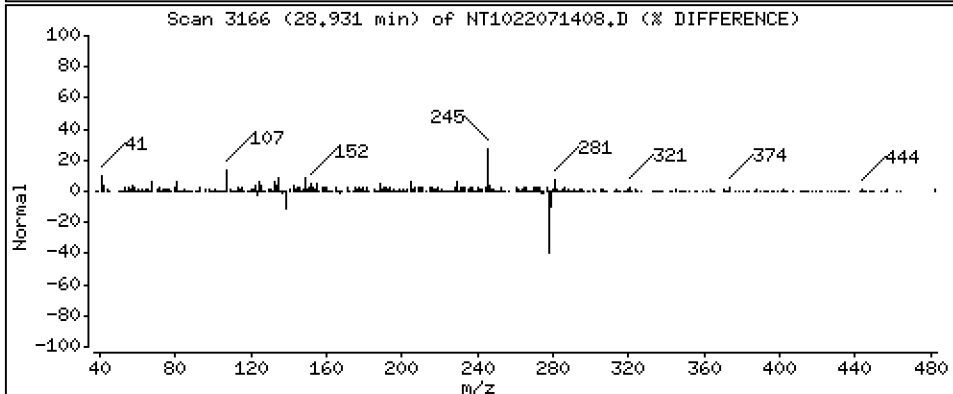
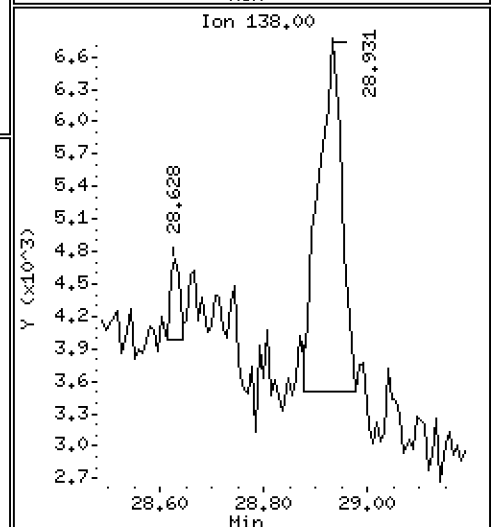
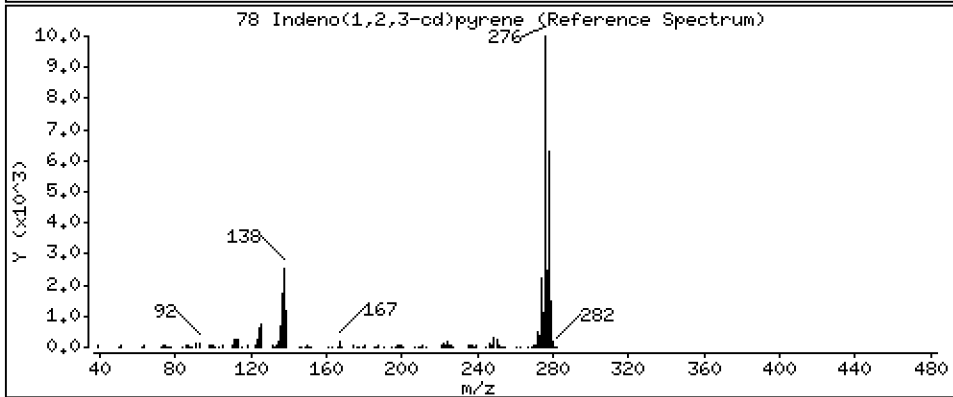
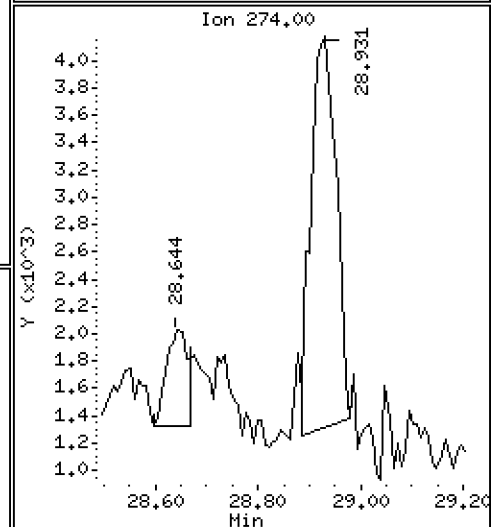
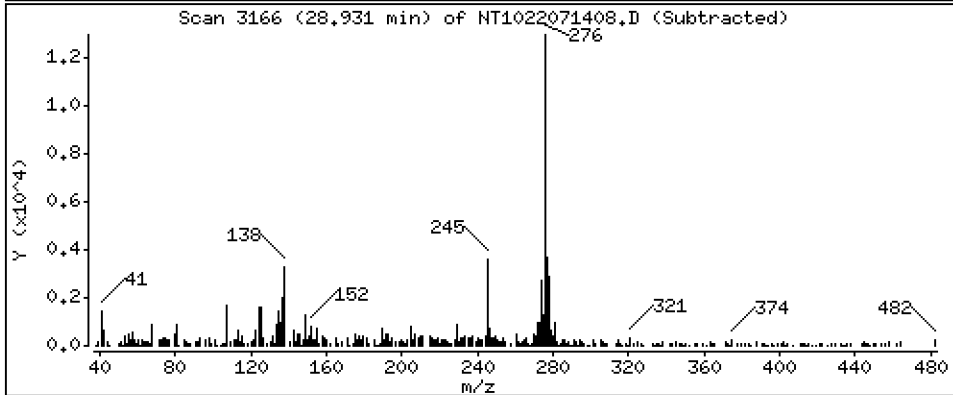
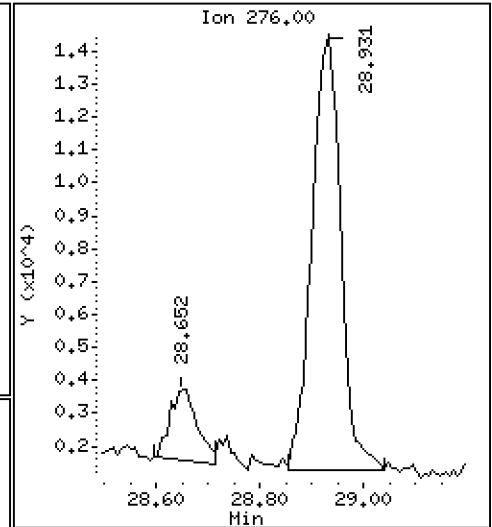
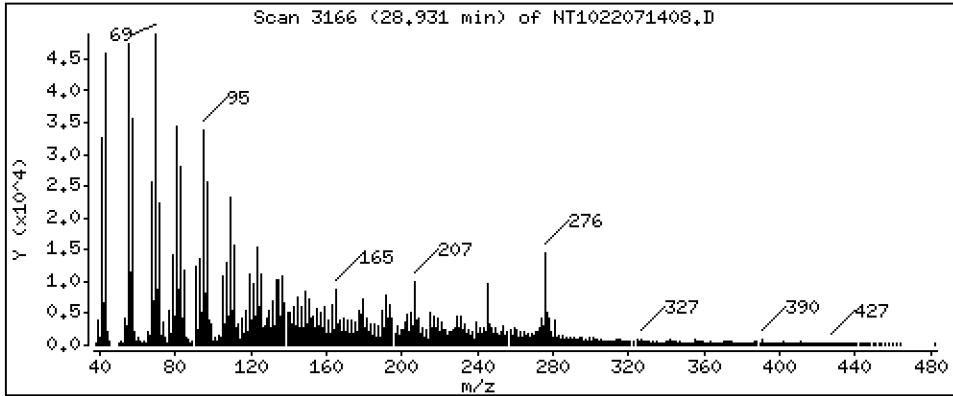
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,7839 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

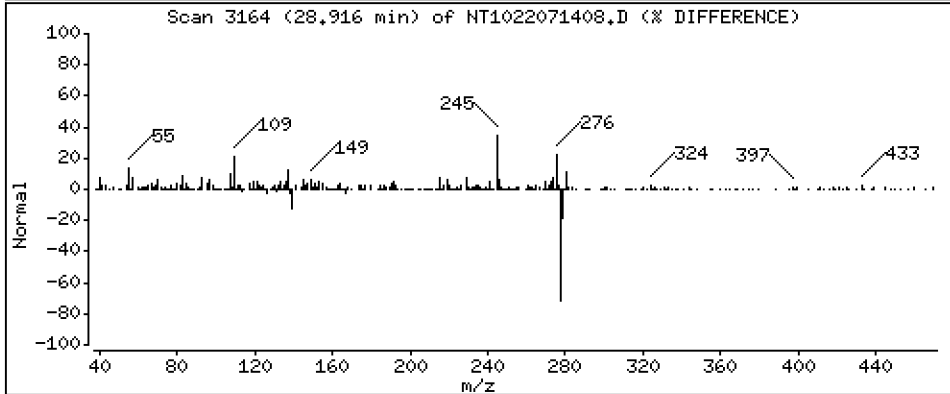
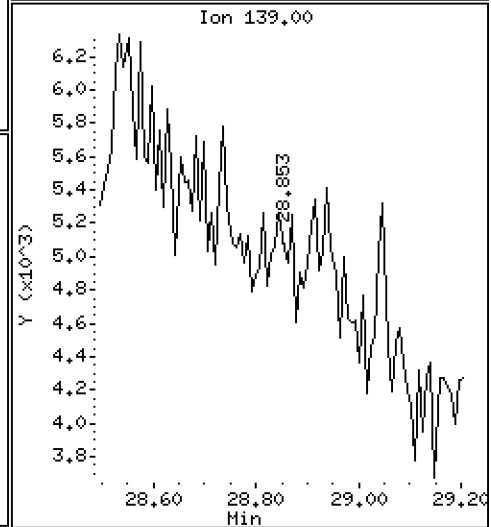
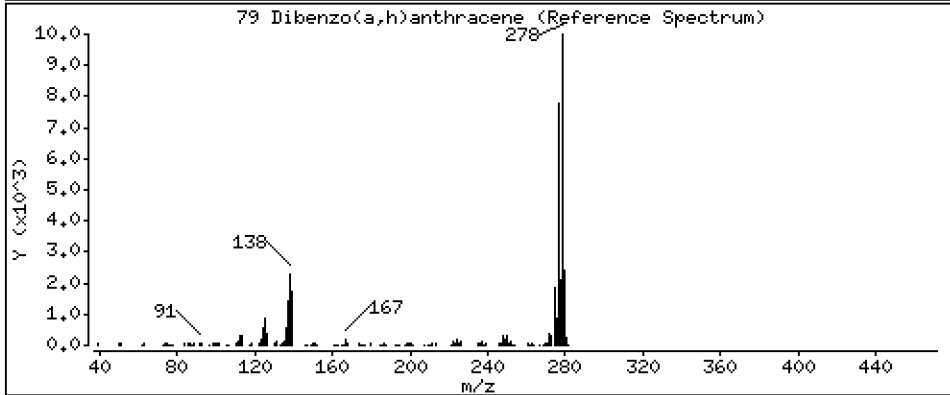
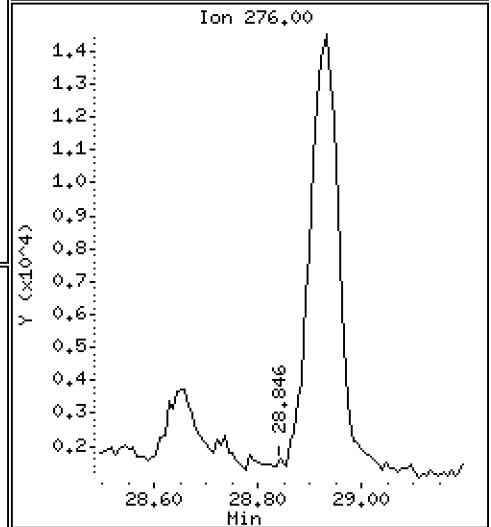
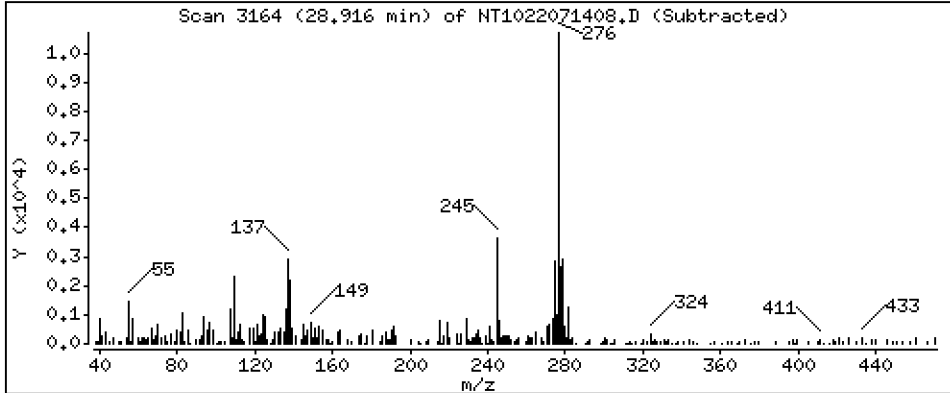
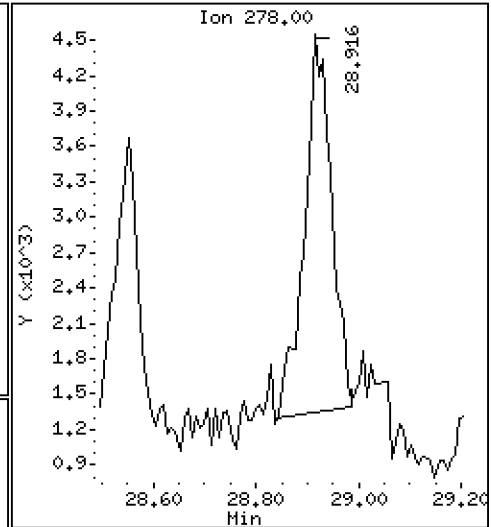
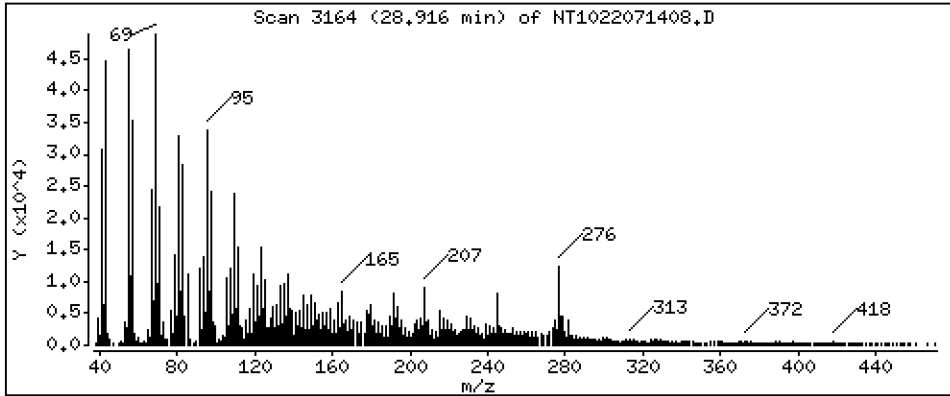
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2353 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

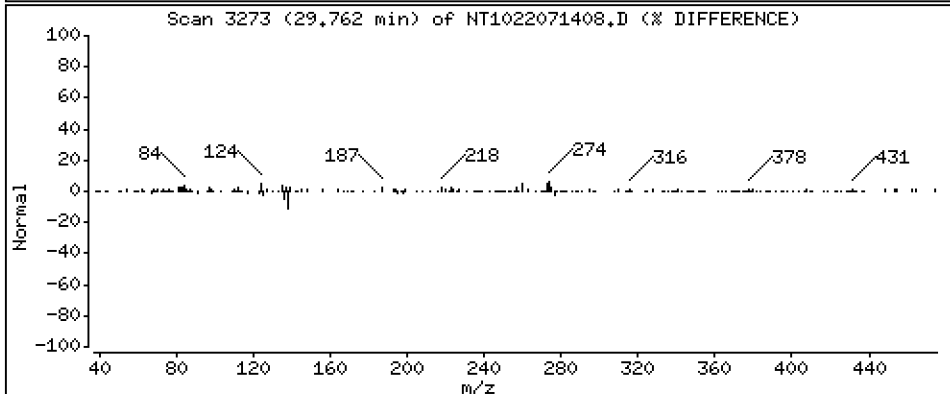
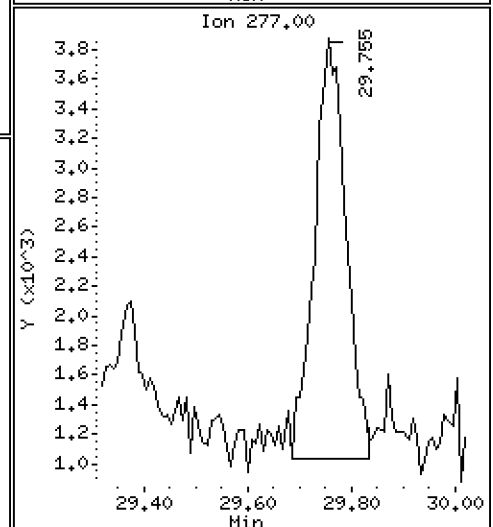
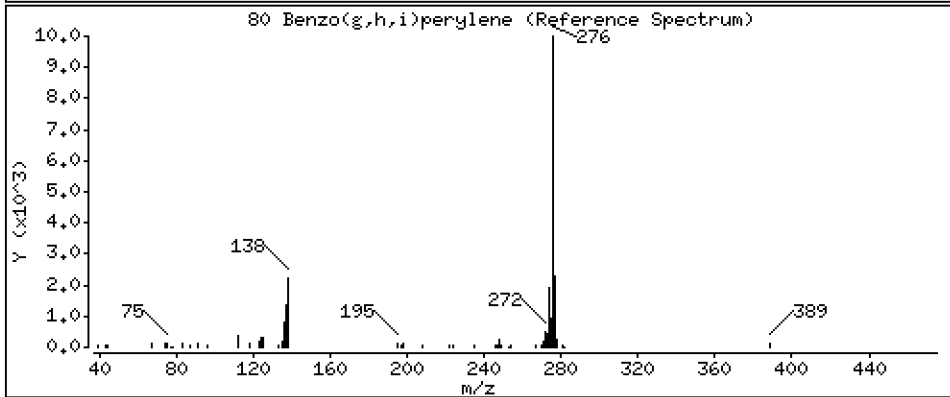
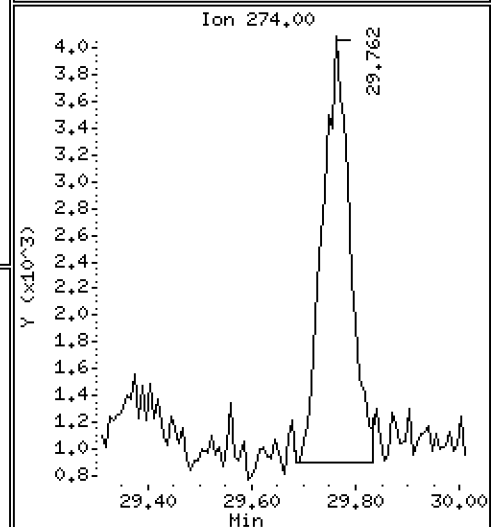
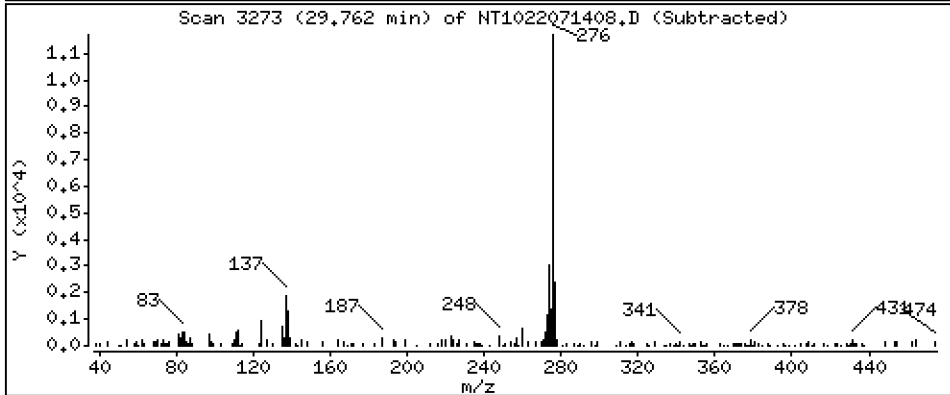
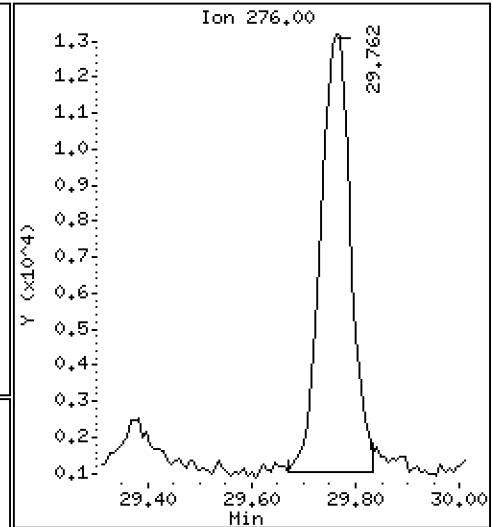
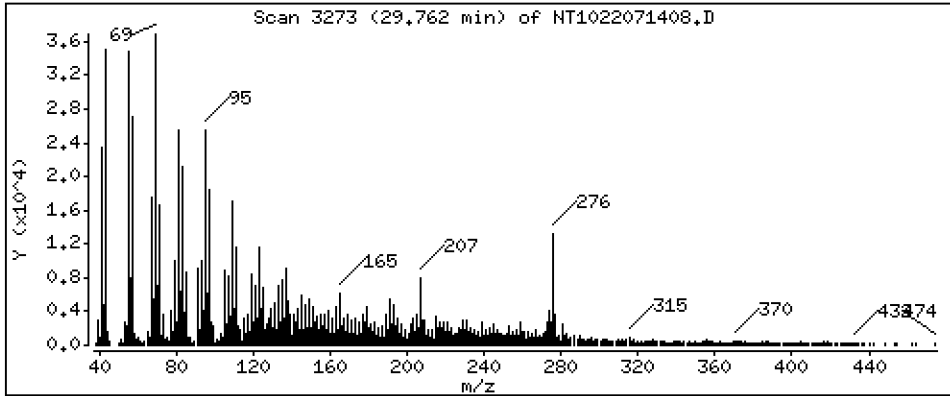
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 0.9467 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

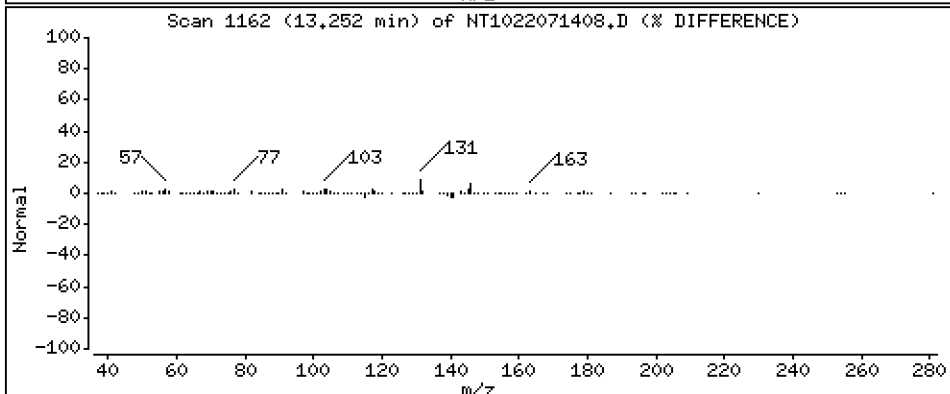
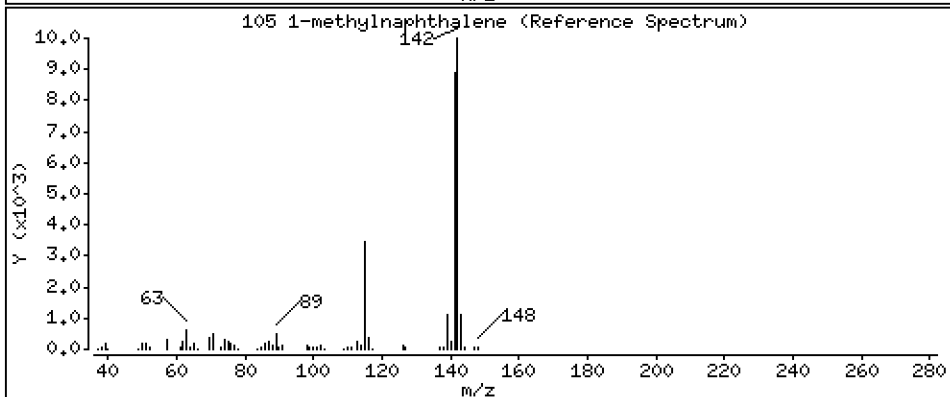
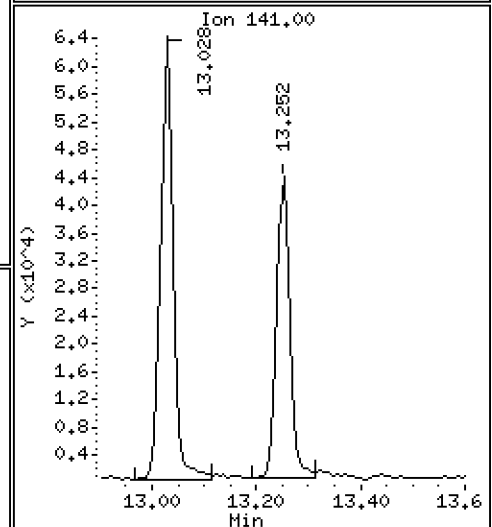
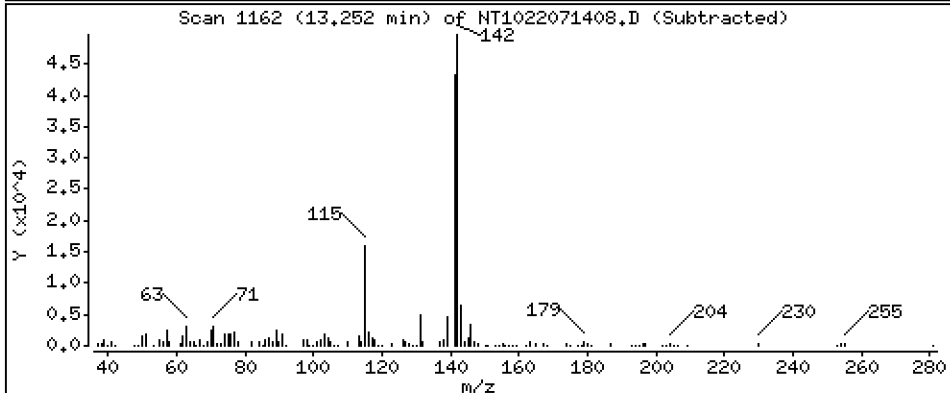
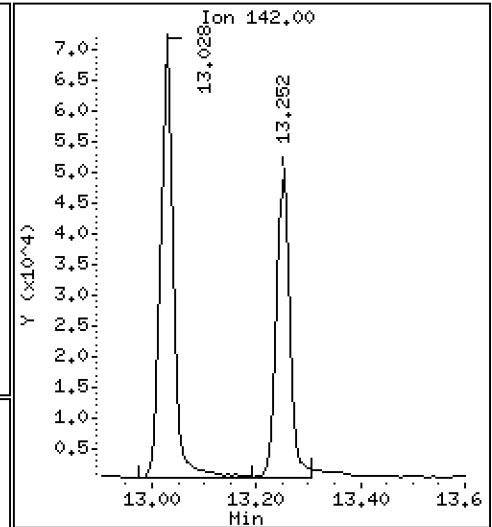
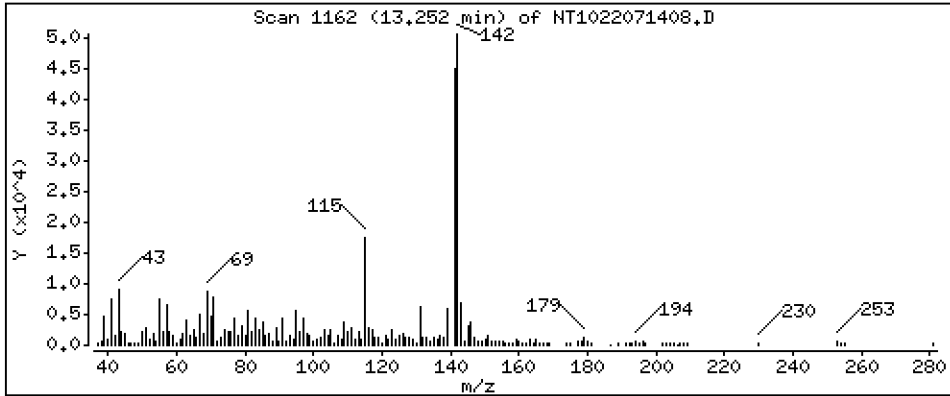
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,3866 ug/mL



Date : 14-JUL-2022 18:16

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-02

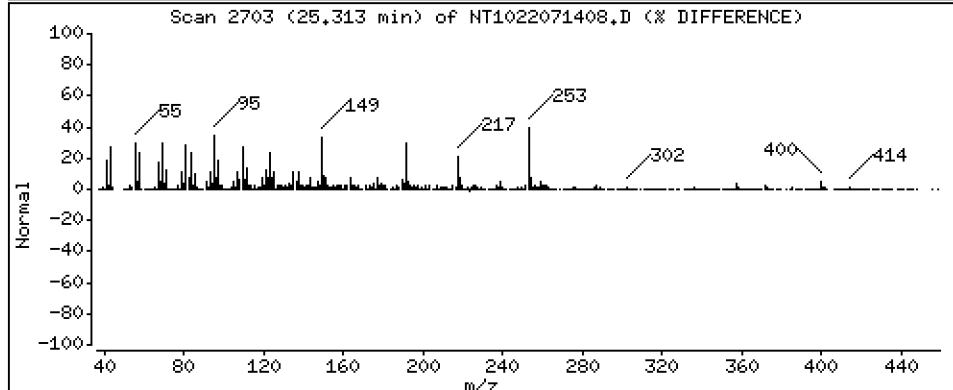
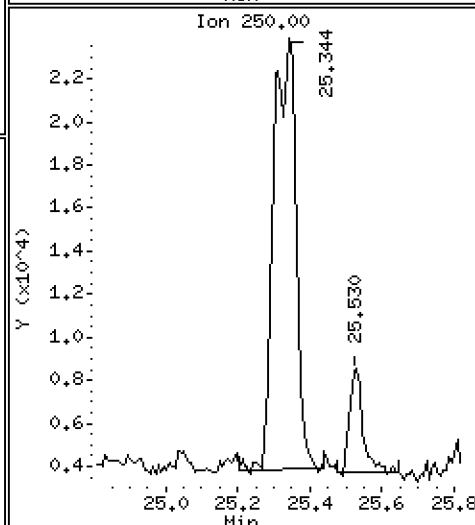
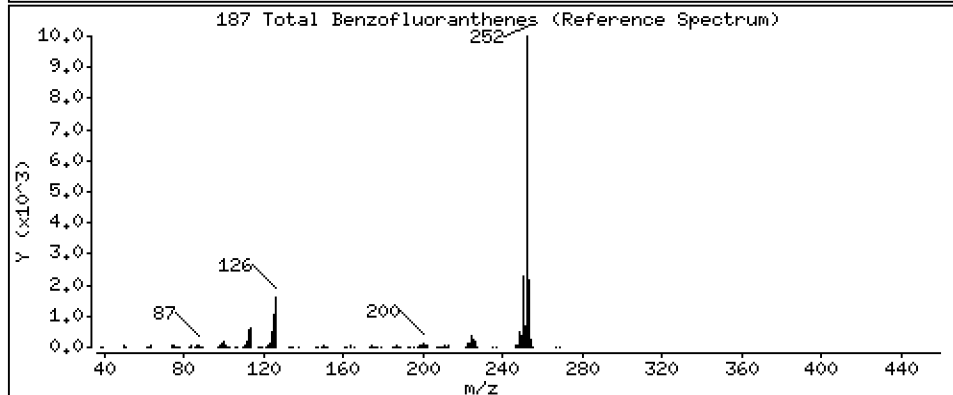
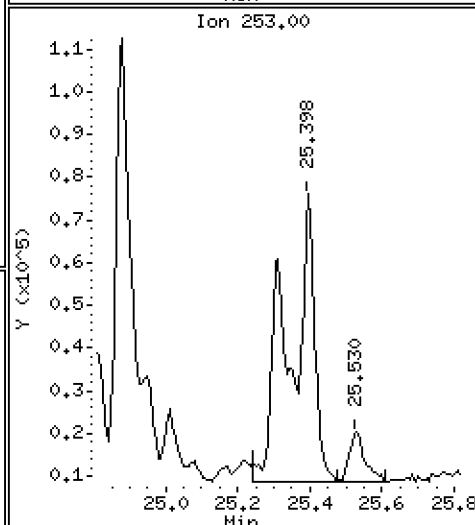
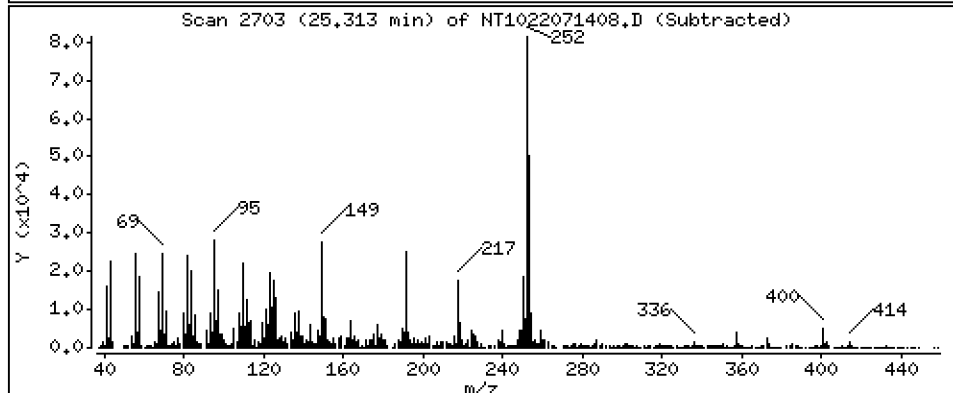
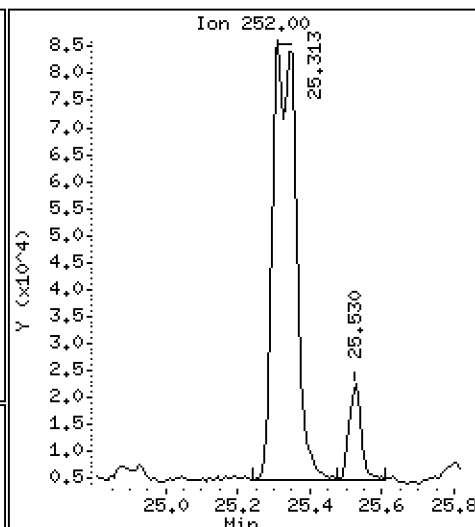
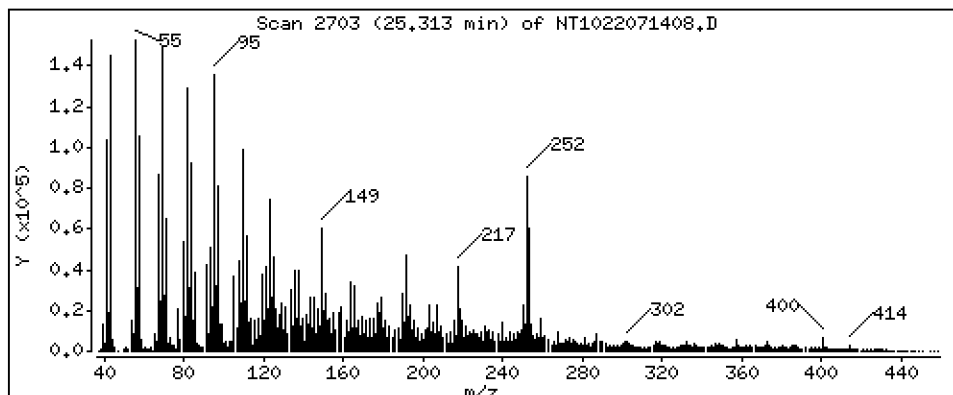
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 5,315 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071408.D
 Lab Smp Id: 22G0019-02
 Inj Date : 14-JUL-2022 18:16
 Operator : VTS
 Smp Info : 22G0019-02
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 14-Jul-2022 14:47 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.914	6.906	(0.760)	424888	4.58694	4.587
\$ 2 Phenol-d5	99		8.498	8.490	(0.934)	598559	4.35497	4.355
3 Phenol	94		8.521	8.513	(0.936)	64463	0.53824	0.5382
\$ 5 2-Chlorophenol-d4	132		8.753	8.753	(0.962)	594642	6.30022	6.300
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.101	9.101	(1.000)	253674	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.466	9.466	(1.040)	269180	4.62829	4.628
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		9.629	9.613	(1.058)	13491	0.18270	0.1827
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.908	9.885	(1.089)	24928	0.31589	0.3159
\$ 18 Nitrobenzene-d5	82		10.196	10.195	(0.880)	396162	4.25089	4.251
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		10.953	10.927	(0.945)	14823	0.20566	0.2057
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		11.097	11.165	(0.958)	26189	0.70485	0.7049(M)
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.589	11.589	(1.000)	875842	4.00000	
28 Naphthalene	128		11.627	11.627	(1.003)	1541785	6.87820	6.878
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		13.027	13.027	(1.124)	120071	0.53897	0.5390
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====	=====	=====	=====	=====	=====	=====	=====
34 2,4,6-Trichlorophenol	196					Compound Not Detected.		
35 2,4,5-Trichlorophenol	196					Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172		13.809	13.809	(0.908)	938057	5.69109	5.691
37 2-Chloronaphthalene	162					Compound Not Detected.		
38 2-Nitroaniline	65					Compound Not Detected.		
39 Dimethylphthalate	163					Compound Not Detected.		
40 Acenaphthylene	152		14.900	14.900	(0.980)	205502	0.96517	0.9652
41 2,6-Dinitrotoluene	165					Compound Not Detected.		
* 42 Acenaphthene-d10	164		15.210	15.210	(1.000)	364241	4.00000	
43 3-Nitroaniline	138					Compound Not Detected.		
44 Acenaphthene	153		15.279	15.279	(1.005)	52084	0.49168	0.4917
45 2,4-Dinitrophenol	184					Compound Not Detected.		
46 Dibenzofuran	168		15.604	15.612	(1.026)	101247	0.60141	0.6014
47 4-Nitrophenol	109					Compound Not Detected.		
48 2,4-Dinitrotoluene	165					Compound Not Detected.		
50 Diethylphthalate	149		16.168	16.176	(1.063)	13265	0.12106	0.1211
49 Fluorene	166		16.323	16.323	(1.073)	94824	0.47139	0.4714
51 4-Chlorophenyl-phenylether	204					Compound Not Detected.		
52 4-Nitroaniline	138					Compound Not Detected.		
53 4,6-Dinitro-2-methylphenol	198					Compound Not Detected.		
54 N-Nitrosodiphenylamine	169					Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330		16.870	16.870	(1.109)	91648	5.53790	5.538
56 4-Bromophenyl-phenylether	248					Compound Not Detected.		
57 Hexachlorobenzene	284					Compound Not Detected.		
58 Pentachlorophenol	266					Compound Not Detected.		
* 59 Phenanthrene-d10	188		18.269	18.269	(1.000)	368258	4.00000	
60 Phenanthrene	178		18.323	18.316	(1.003)	724819	7.49179	7.492
61 Anthracene	178		18.416	18.416	(1.008)	155478	1.50802	1.508
62 Carbazole	167					Compound Not Detected.		
63 Di-n-butylphthalate	149					Compound Not Detected.		
64 Fluoranthene	202		20.737	20.722	(0.887)	659232	5.06788	5.068
65 Pyrene	202		21.163	21.147	(0.905)	788064	6.78230	6.782
\$ 66 Terphenyl-d14	244		21.441	21.434	(0.917)	237374	3.82431	3.824
67 Butylbenzylphthalate	149					Compound Not Detected.		
68 Benzo(a)anthracene	228		23.354	23.331	(0.999)	191121	2.53579	2.536
* 69 Chrysene-d12	240		23.377	23.362	(1.000)	177865	4.00000	
70 3,3'-Dichlorobenzidine	252					Compound Not Detected.		
71 Chrysene	228		23.424	23.408	(1.002)	211910	4.07020	4.070
72 bis(2-Ethylhexyl)phthalate	149		23.416	23.400	(0.958)	16439	0.41112	0.4111
* 134 Di-n-octylphthalate-d4	153		24.438	24.407	(1.000)	361758	4.00000	
73 Di-n-octylphthalate	149					Compound Not Detected.		
74 Benzo(b)fluoranthene	252		25.313	25.266	(0.969)	188040	2.53312	2.533
75 Benzo(k)fluoranthene	252		25.344	25.313	(0.970)	203260	2.84754	2.848 (M)
76 Benzo(a)pyrene	252		26.002	25.948	(0.996)	222074	3.65522	3.655
* 77 Perylene-d12	264		26.118	26.064	(1.000)	163911	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.931	28.845	(1.108)	50852	0.78392	0.7839
79 Dibenzo(a,h)anthracene	278		28.915	28.853	(1.107)	11683	0.23526	0.2353 (M)
80 Benzo(g,h,i)perylene	276		29.762	29.661	(1.140)	49090	0.94669	0.9467
90 N-Nitrosodimethylamine	74					Compound Not Detected.		
91 Aniline	93					Compound Not Detected.		
93 Benzidine	184					Compound Not Detected.		
103 Pyridine	79					Compound Not Detected.		
105 1-methylnaphthalene	142		13.252	13.252	(1.144)	84615	0.38660	0.3866
111 Azobenzene (1,2-DP-Hydrazine)	77					Compound Not Detected.		

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.313	25.313	(0.969)	367864	5.31489	5.315	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071408.D Calibration Time: 14:12
 Lab Smp Id: 22G0019-02
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	253674	29.53
27 Naphthalene-d8	626038	313019	1252076	875842	39.90
42 Acenaphthene-d10	366612	183306	733224	364241	-0.65
59 Phenanthrene-d10	635137	317569	1270274	368258	-42.02
69 Chrysene-d12	270778	135389	541556	177865	-34.31
134 Di-n-octylphthala	507031	253516	1014062	361758	-28.65
77 Perylene-d12	170107	85054	340214	163911	-3.64

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.10	0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.59	0.00
42 Acenaphthene-d10	15.21	14.71	15.71	15.21	0.00
59 Phenanthrene-d10	18.27	17.77	18.77	18.27	0.00
69 Chrysene-d12	23.36	22.86	23.86	23.38	0.07
134 Di-n-octylphthala	24.41	23.91	24.91	24.44	0.13
77 Perylene-d12	26.06	25.56	26.56	26.12	0.21

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

REVIEW SUMMARY FOR FILE - NT1022071408.D

Lab ID: 22G0019-02
nt10.i, ABN.m, 14-JUL-2022 18:16

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.958	0.963	-0.0059	Benzoic acid

RRT check based on Ccal File: NT1022071402.D

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

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

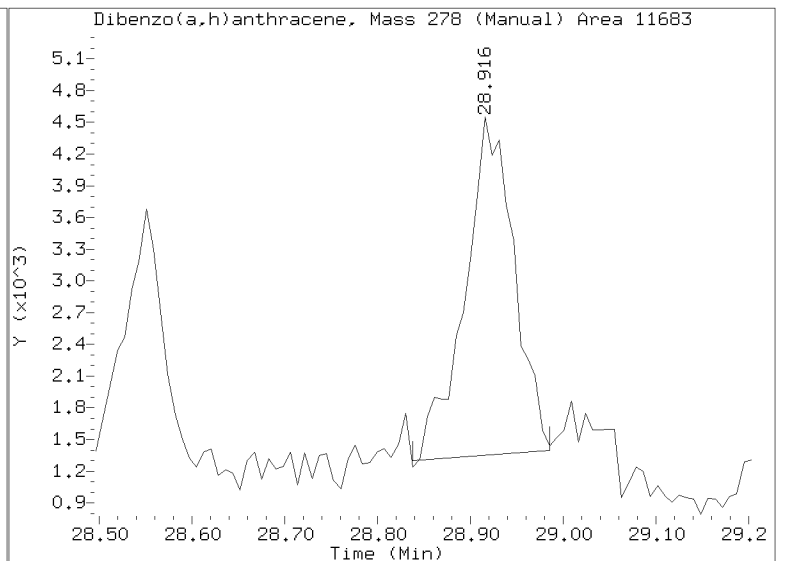
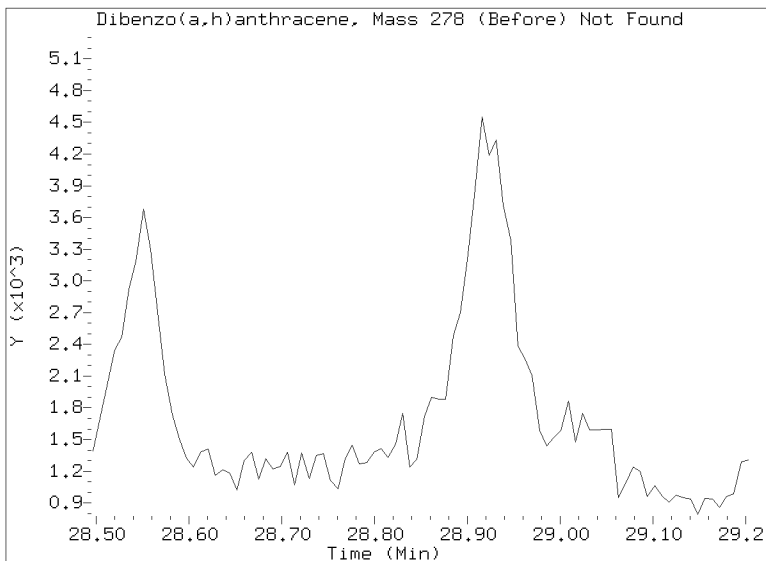
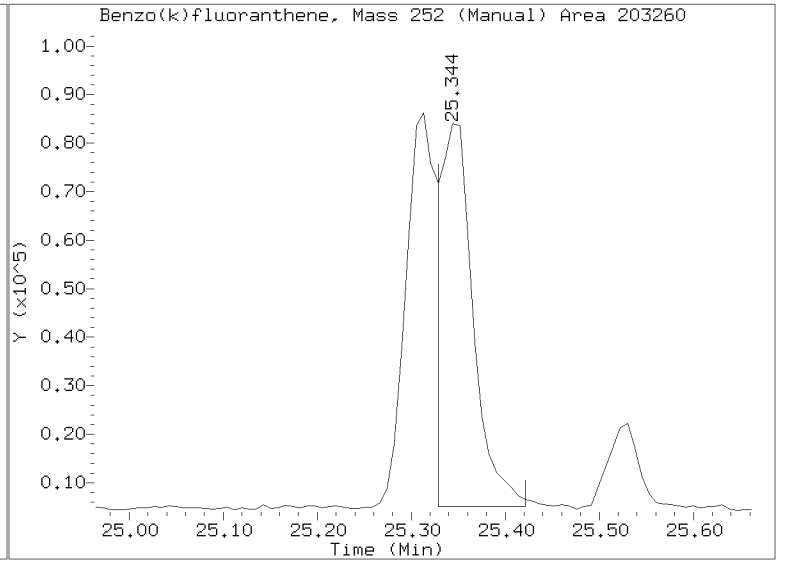
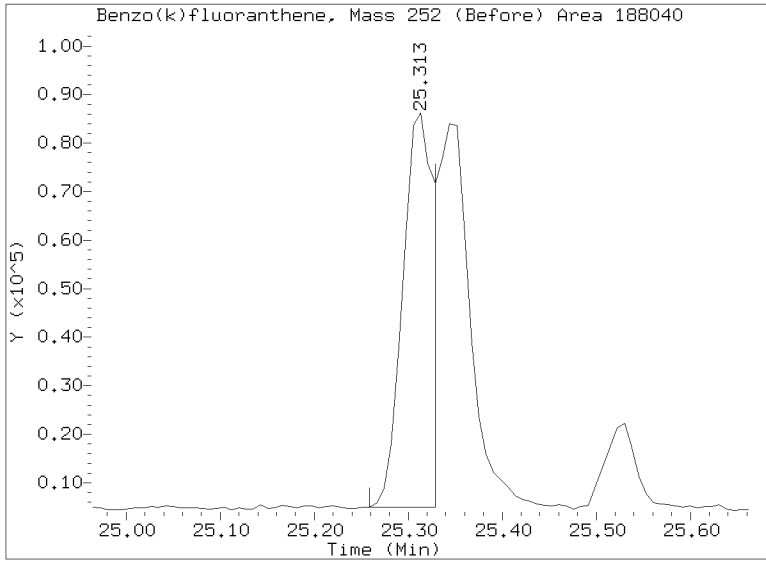
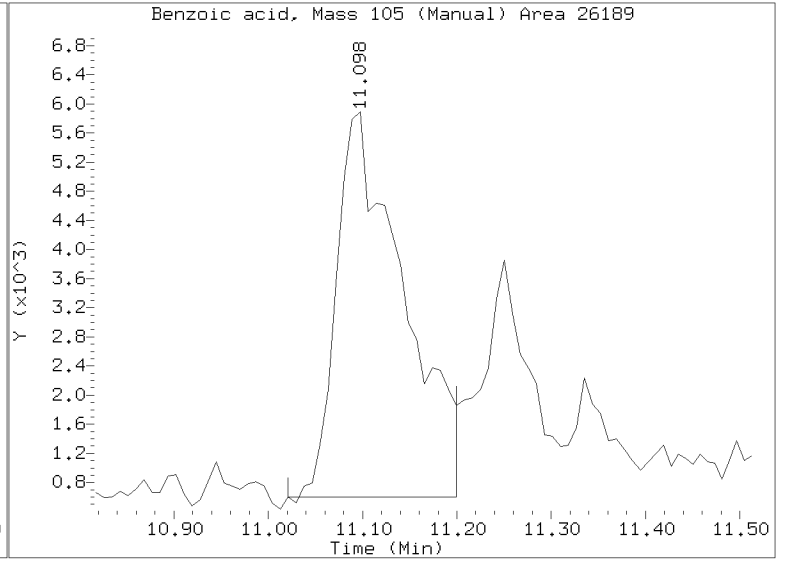
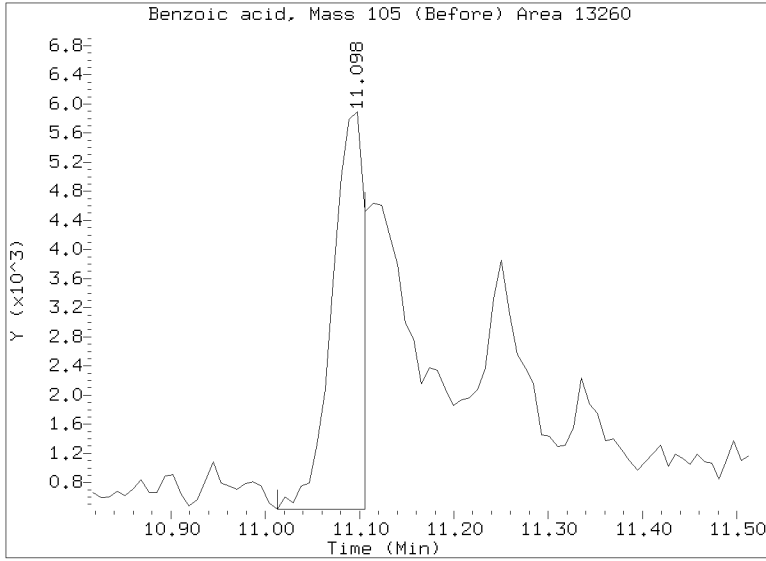
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071408.D

Injection Date: 14-JUL-2022 18:16

Lab ID:22G0019-02 Client ID:

Report Date: 07/19/2022 12:55





Form I
ORGANIC ANALYSIS DATA SHEET

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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-03 A

SDG: 22G0019

Sampled: 06/27/22 12:30

Prepared: 07/07/22 10:01

File ID: NT1022071409.D

% Solids: 26.73

Preparation: EPA 3546 (Microwave)

Analyzed: 07/14/22 18:55

Batch: BKG0069

Sequence: SKG0139

Initial/Final: 20 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	1	9750	E	7.9	37.4
91-57-6	2-Methylnaphthalene	1	471		8.4	37.4
83-32-9	Acenaphthene	1	221		9.8	37.4
87-86-5	Pentachlorophenol	1	58.5	U	58.5	187
85-01-8	Phenanthrene	1	9040	E	16.3	37.4
206-44-0	Fluoranthene	1	4350	Q, E	11.4	37.4
56-55-3	Benzo(a)anthracene	1	639		11.1	37.4
218-01-9	Chrysene	1	961		11.3	37.4
205-99-2	Benzo(b)fluoranthene	1	674		13.1	37.4
207-08-9	Benzo(k)fluoranthene	1	865		9.4	37.4
50-32-8	Benzo(a)pyrene	1	1120		7.9	37.4
193-39-5	Indeno(1,2,3-cd)pyrene	1	388		27.4	37.4
53-70-3	Dibenzo(a,h)anthracene	1	55.7		32.2	37.4
90-12-0	1-Methylnaphthalene	1	310		9.8	37.4

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	1402.9	907	64.6	27 - 120	
Phenol-d5	1402.9	834	59.4	29 - 120	
2-Chlorophenol-d4	1402.9	1200	85.7	31 - 120	
1,2-Dichlorobenzene-d4	935.28	840	89.8	32 - 120	
Nitrobenzene-d5	935.28	688	73.6	30 - 120	
2-Fluorobiphenyl	935.28	1080	116	35 - 120	
2,4,6-Tribromophenol	1402.9	1140	81.1	24 - 134	
p-Terphenyl-d14	935.28	716	76.6	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220714.1\NT1022071409.D

Date: 14-JUL-2022 18:55

Client ID:

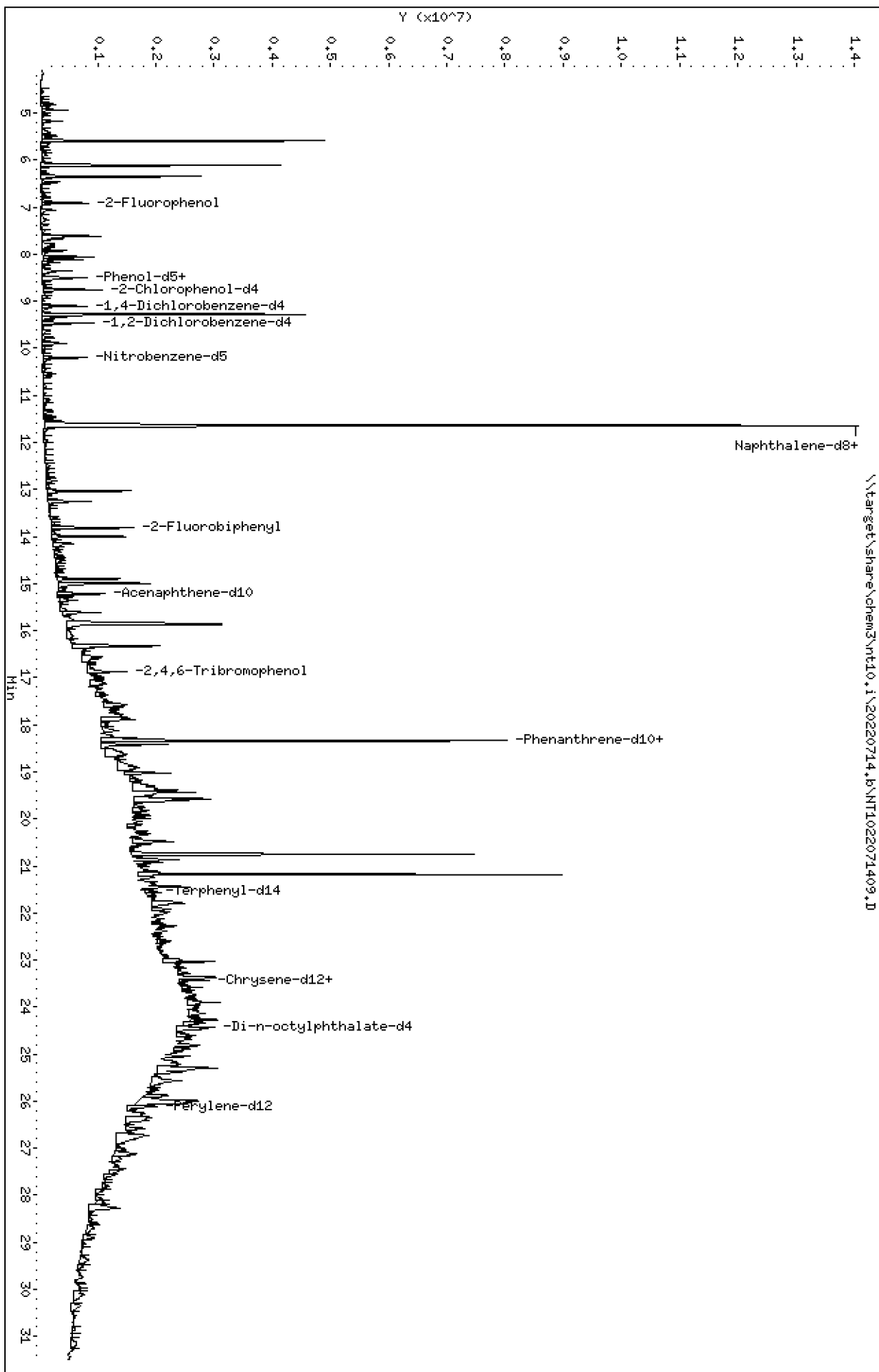
Sample Info: 2200019-03

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

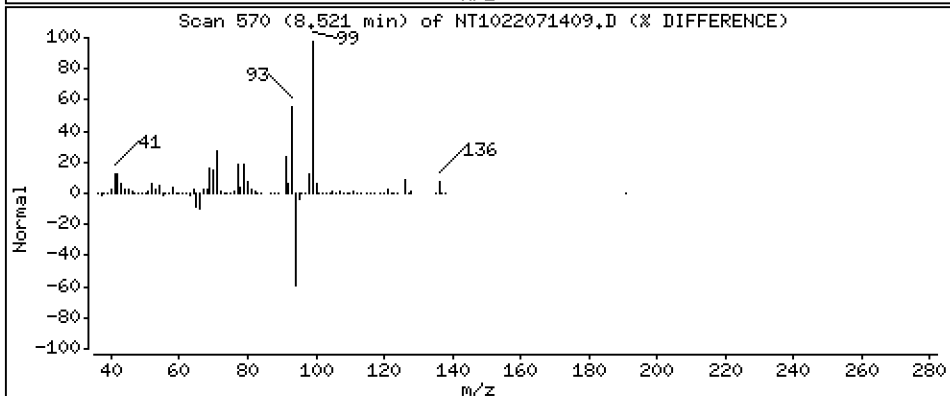
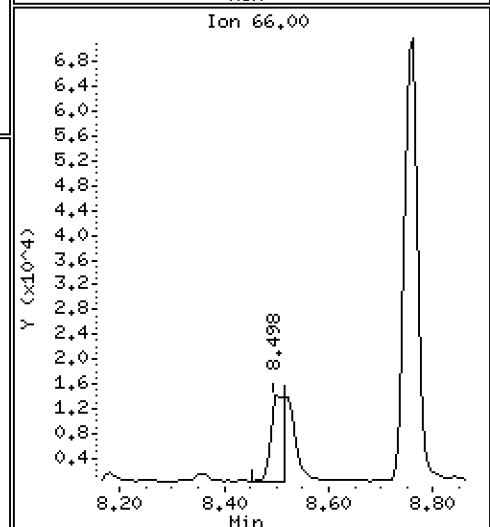
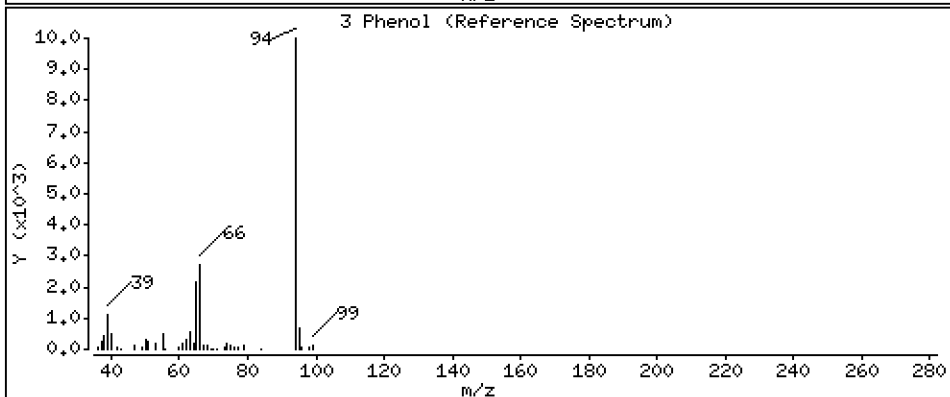
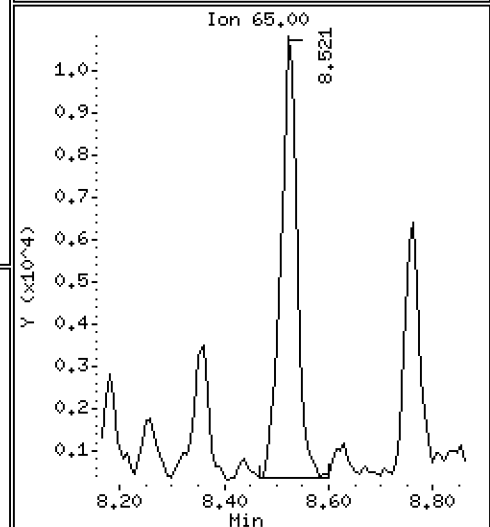
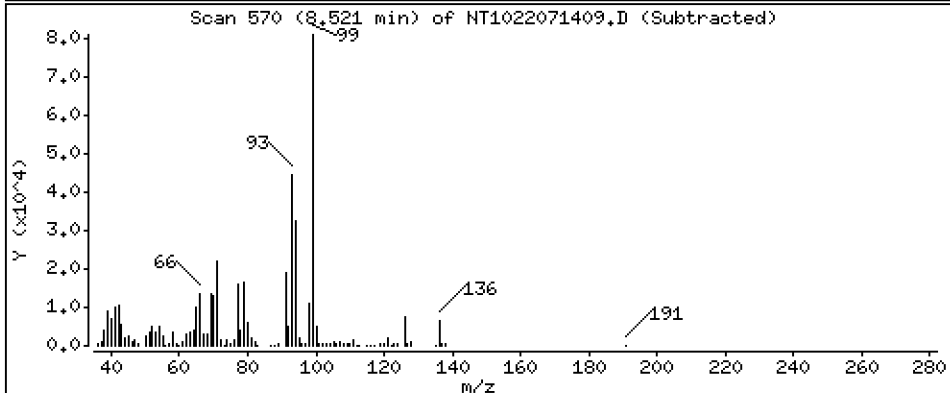
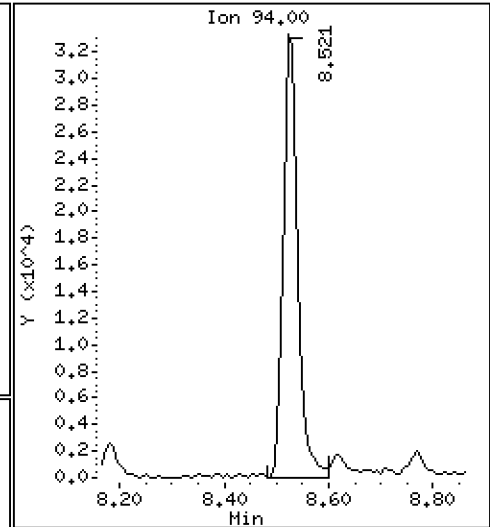
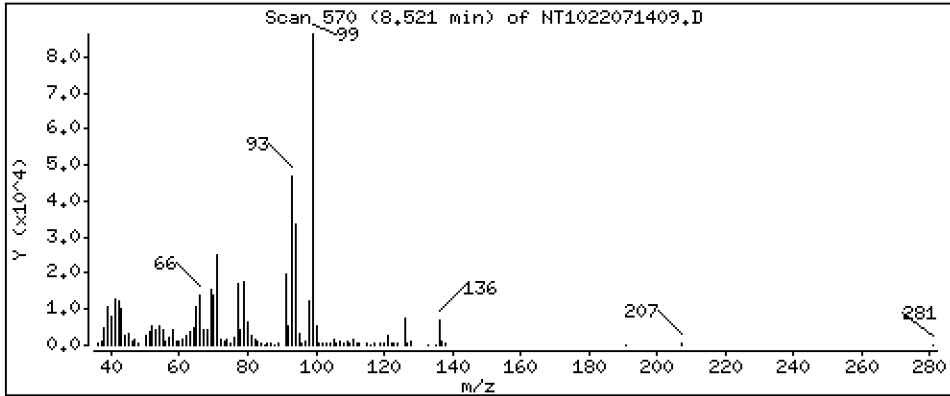
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,5779 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 2200019-03

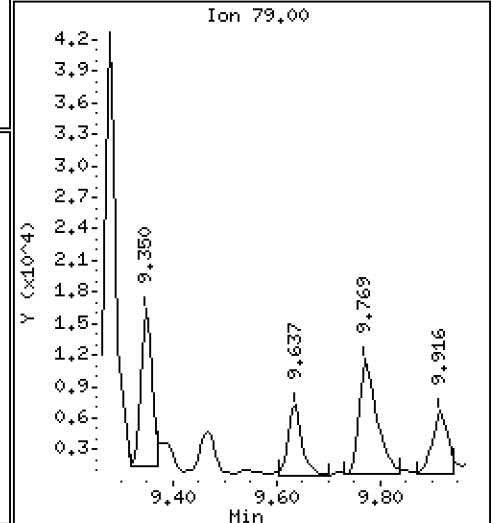
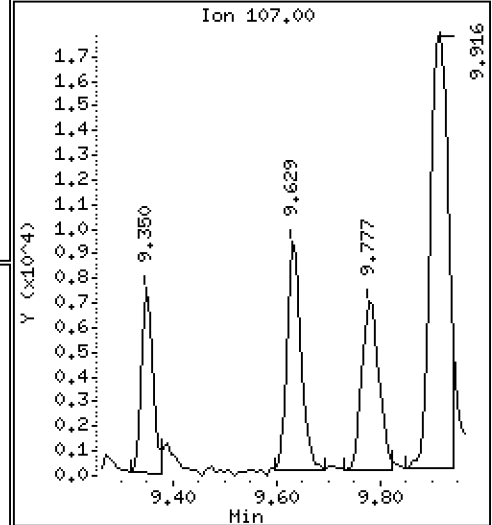
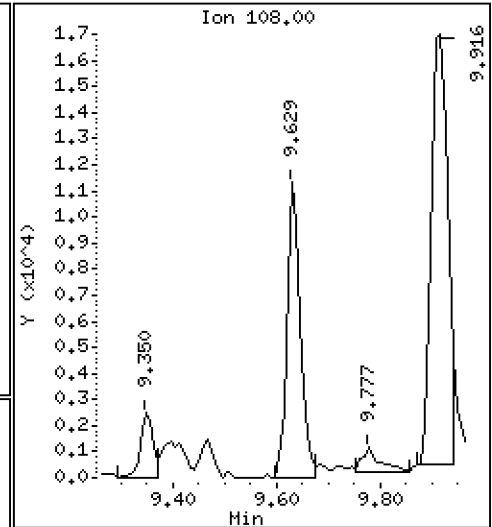
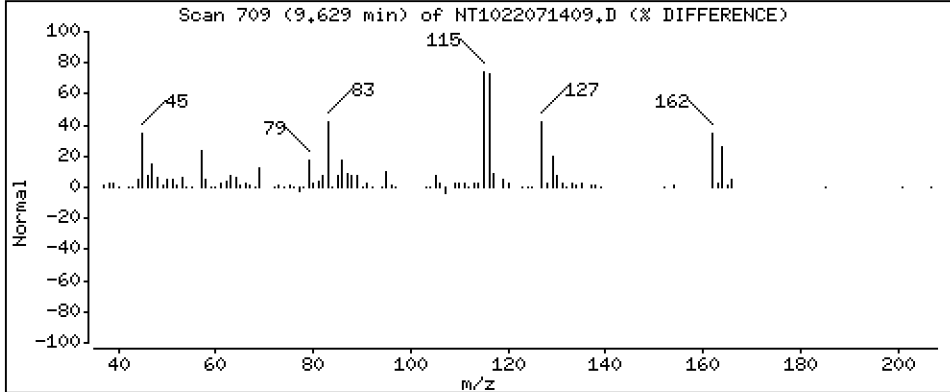
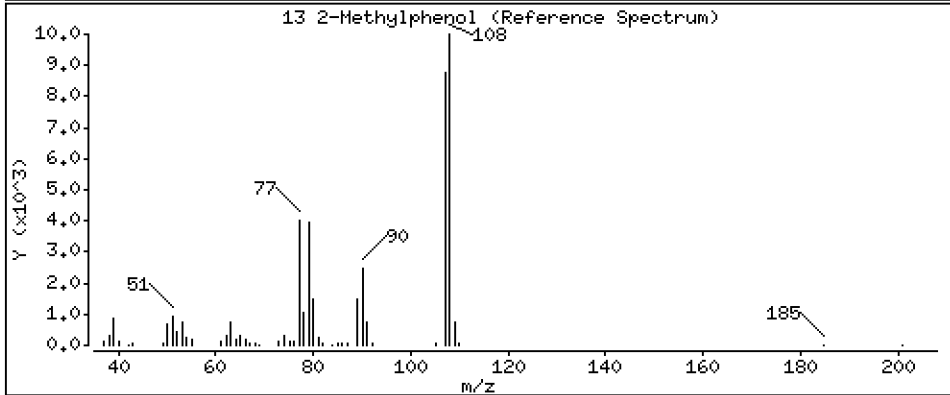
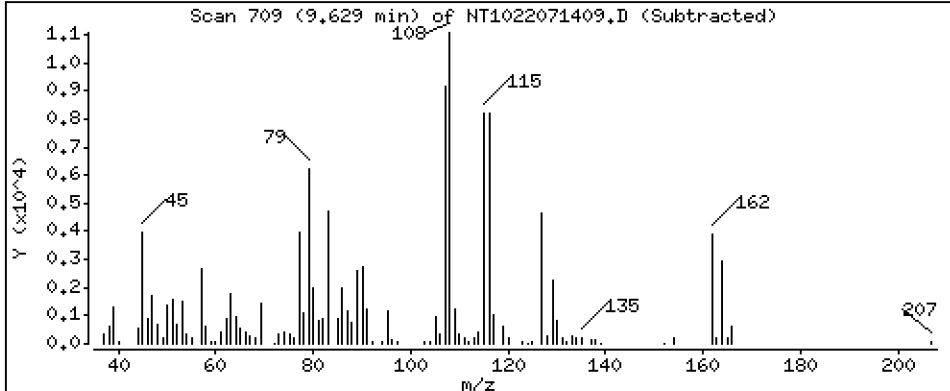
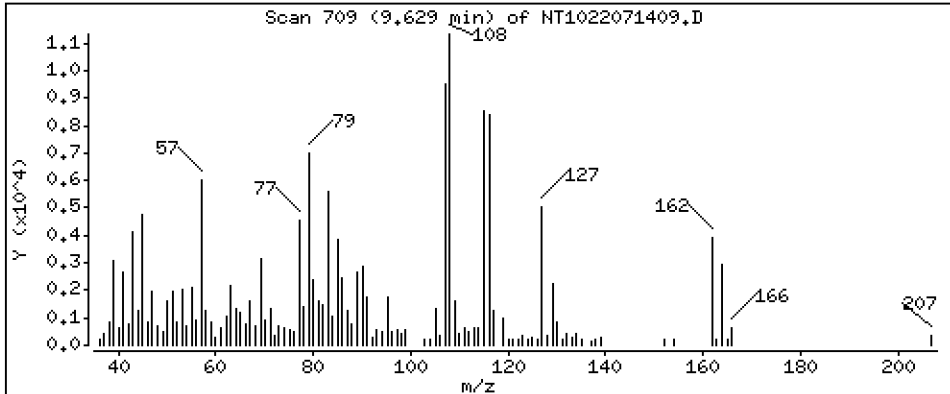
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.2980 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

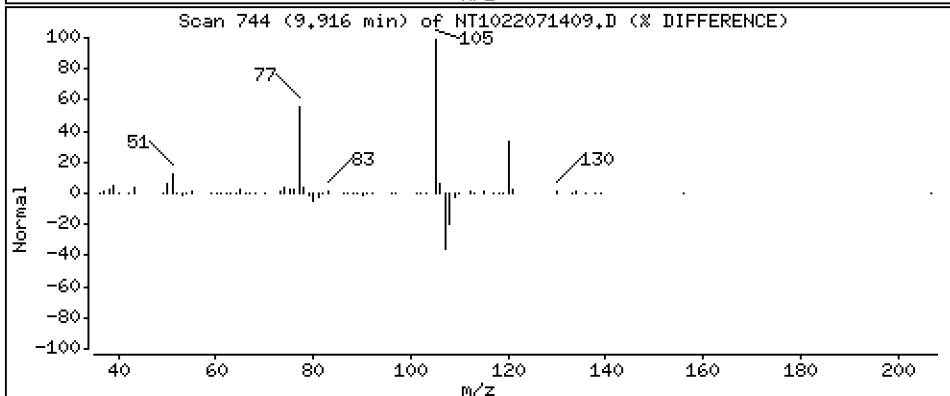
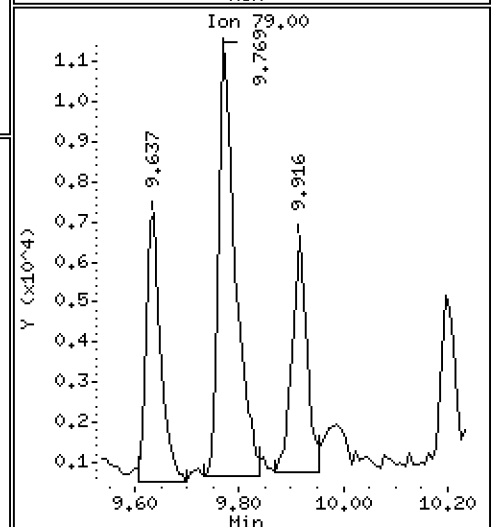
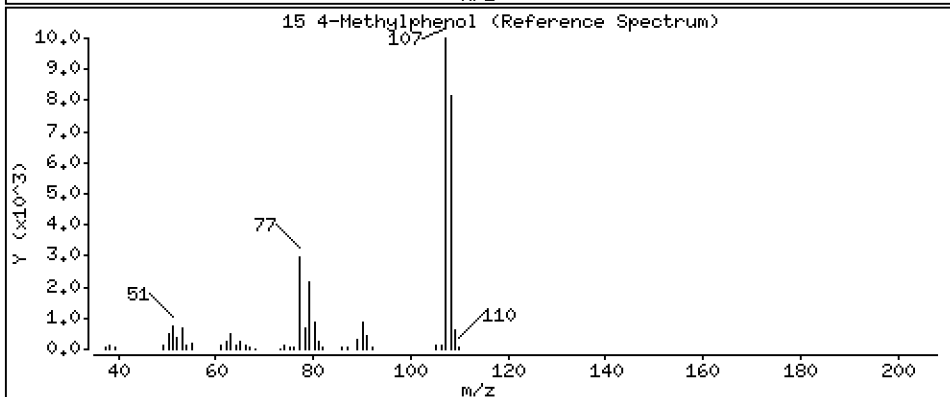
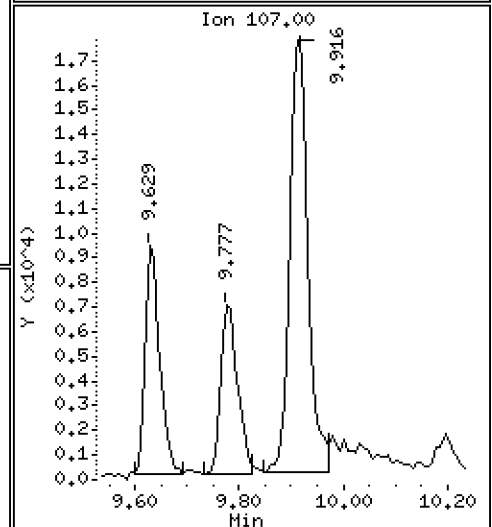
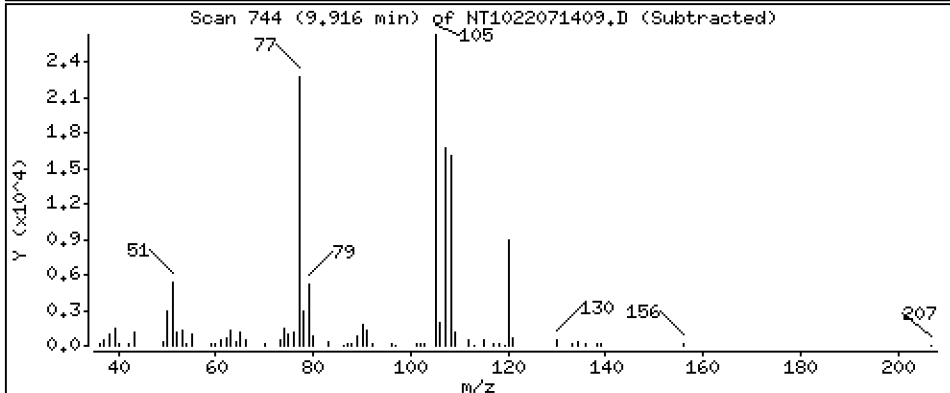
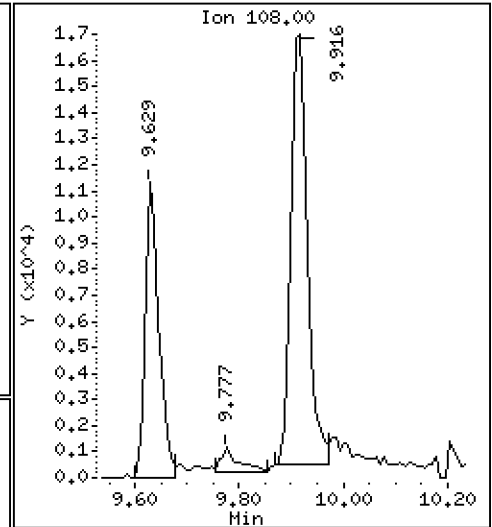
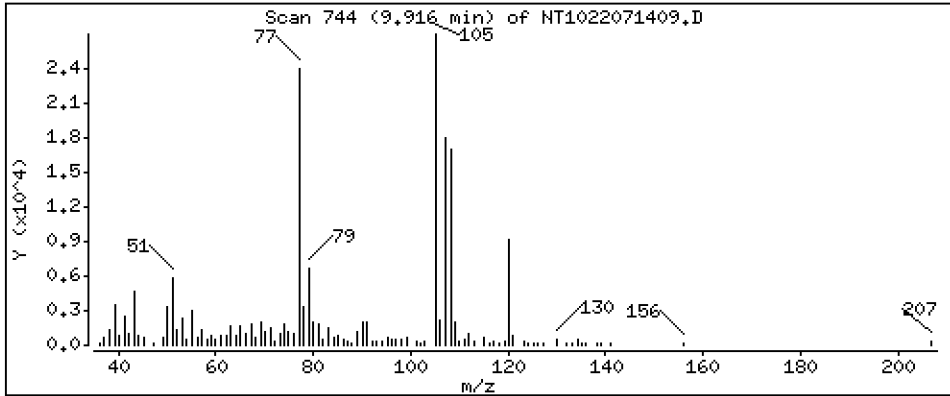
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.5176 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

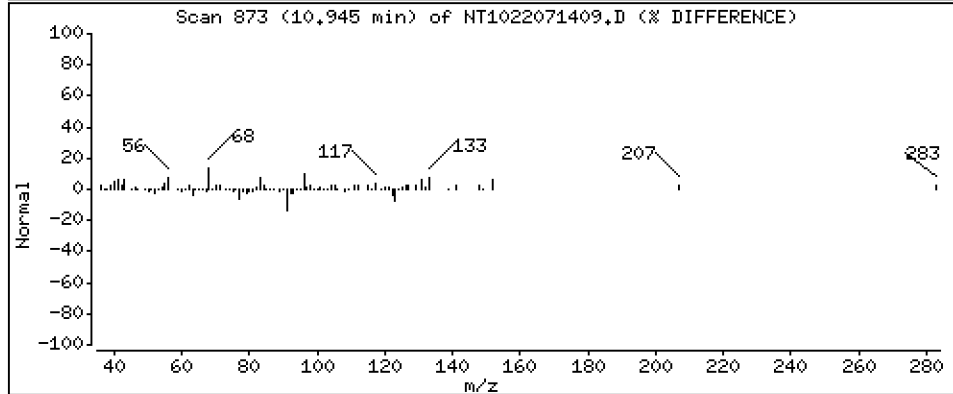
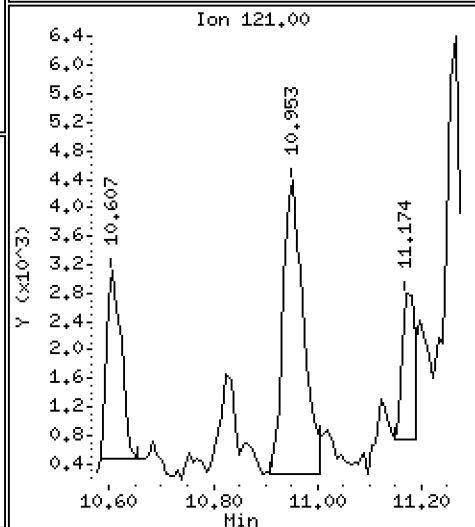
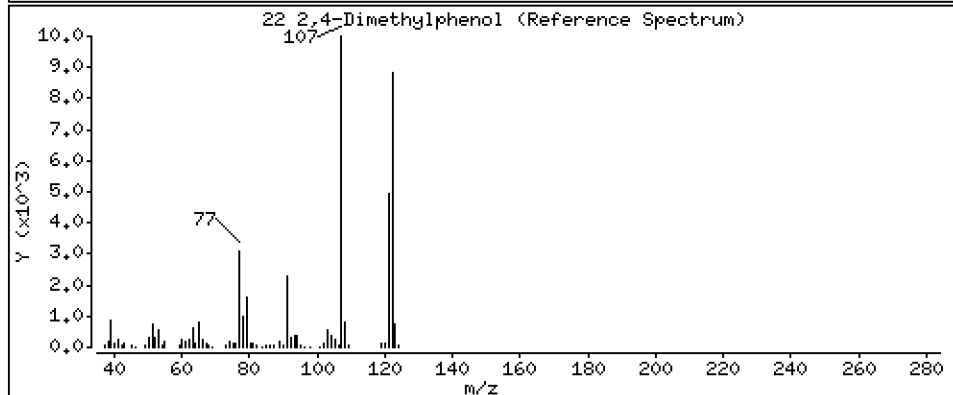
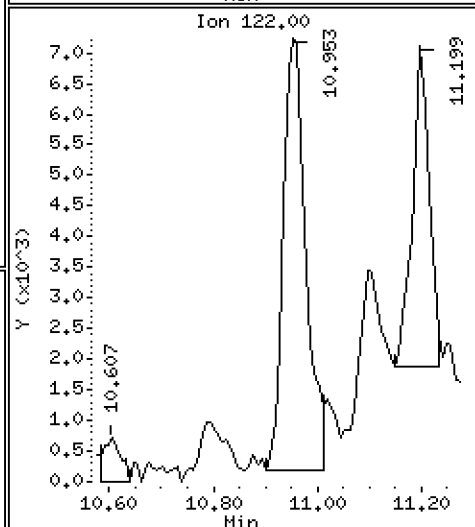
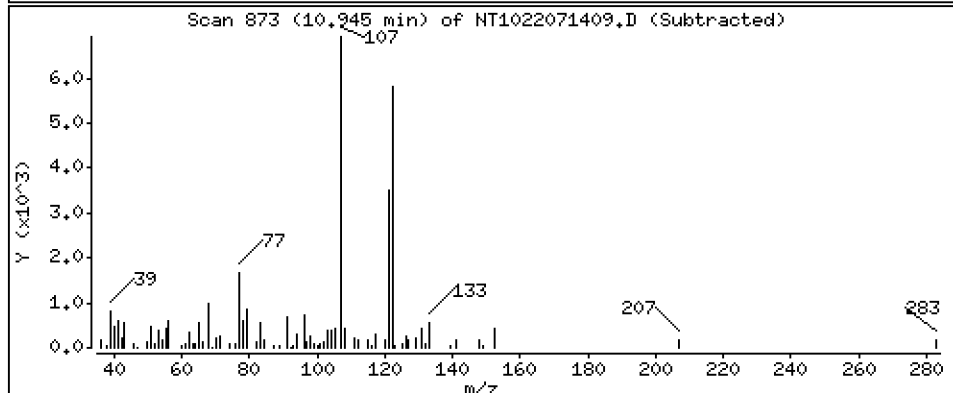
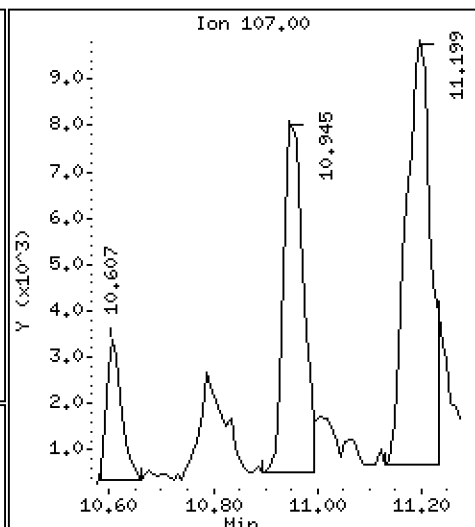
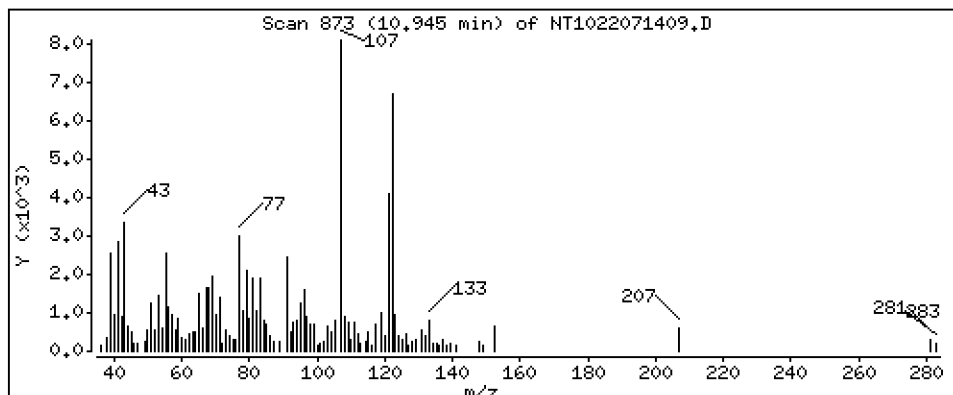
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.2731 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

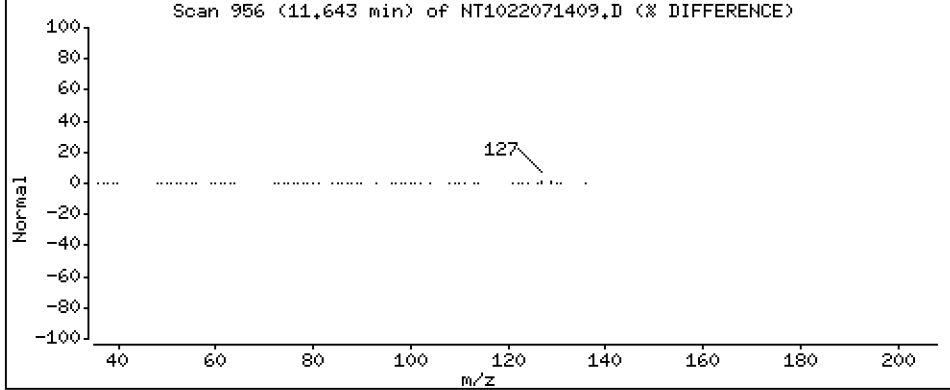
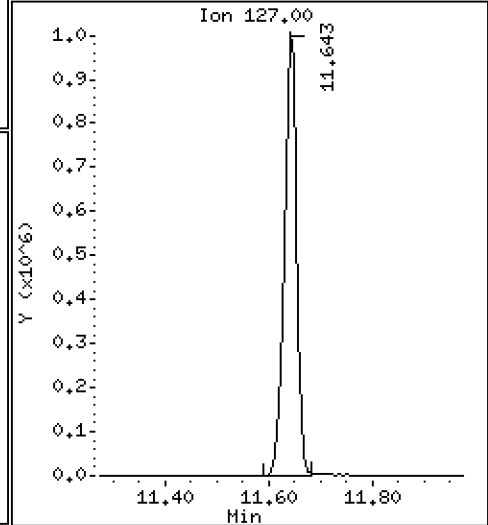
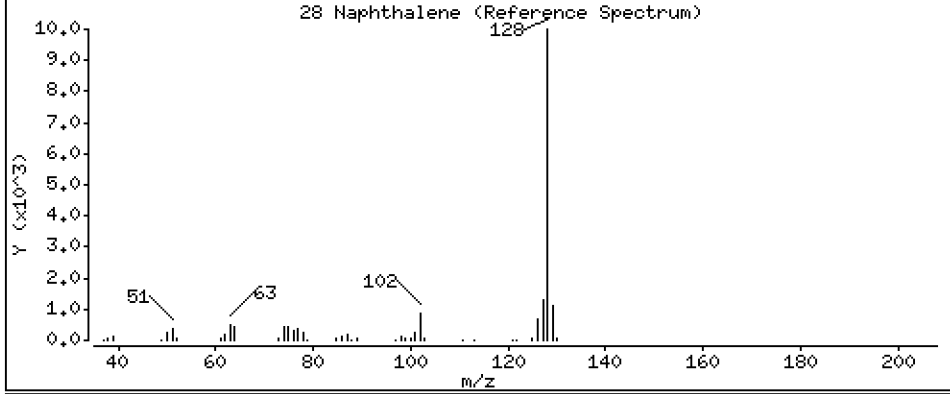
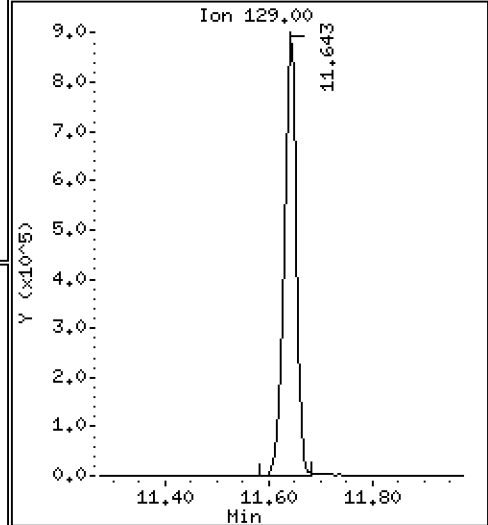
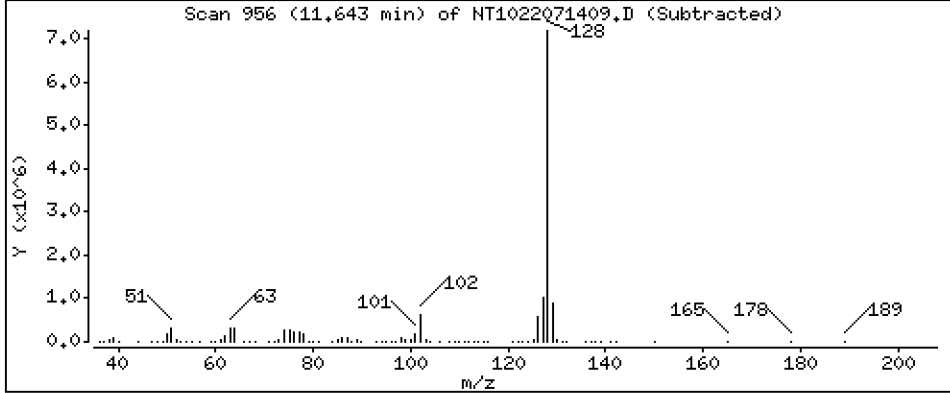
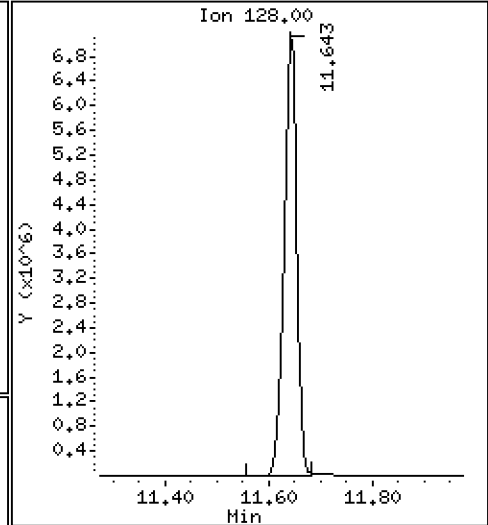
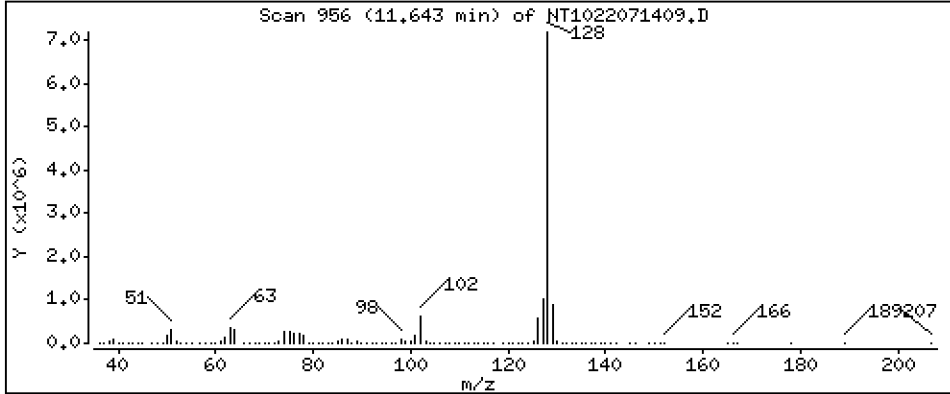
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 52,12 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

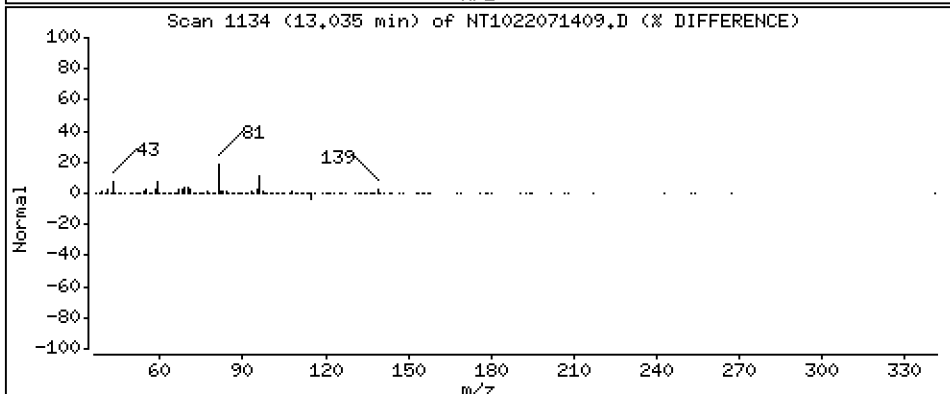
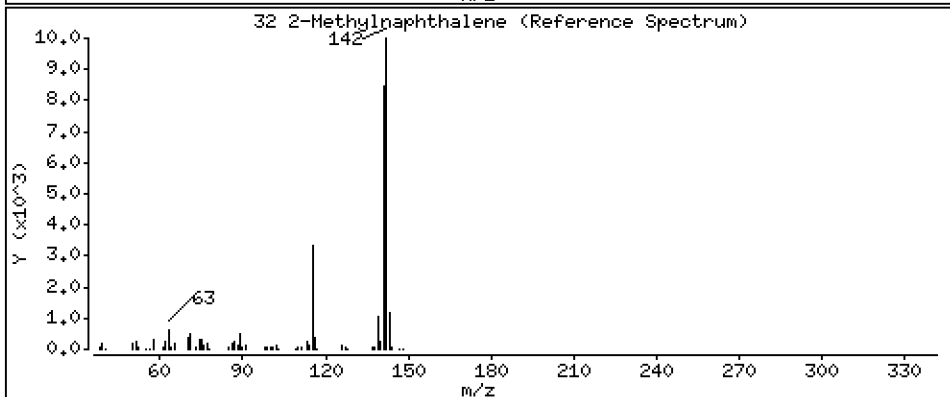
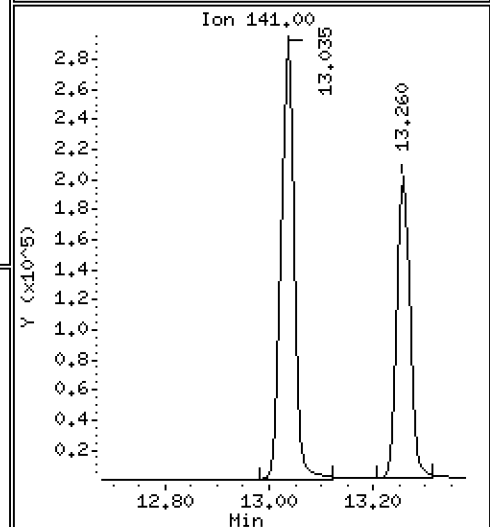
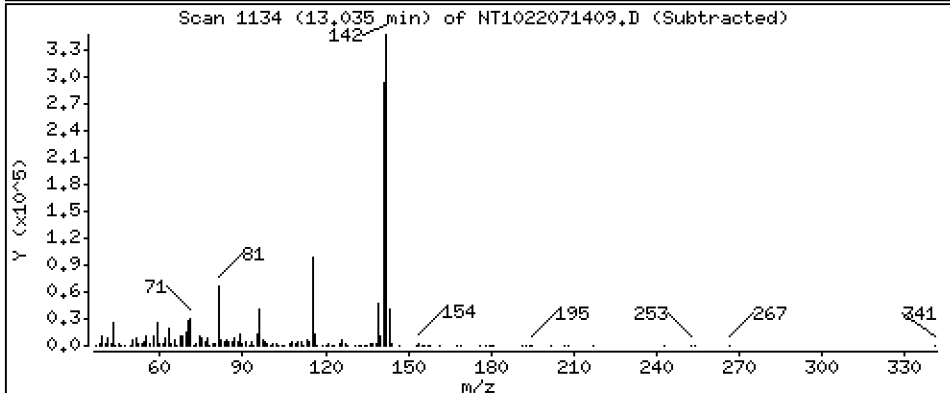
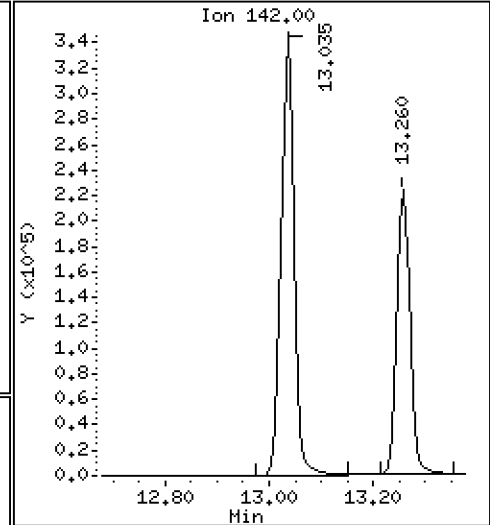
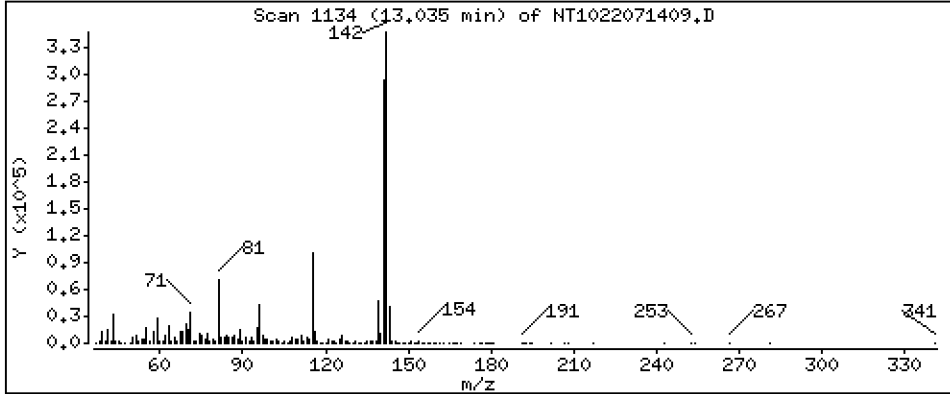
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 2,518 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 2200019-03

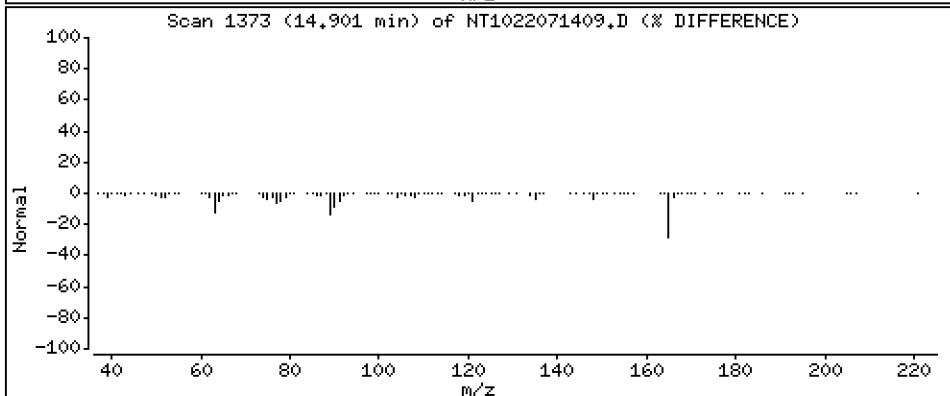
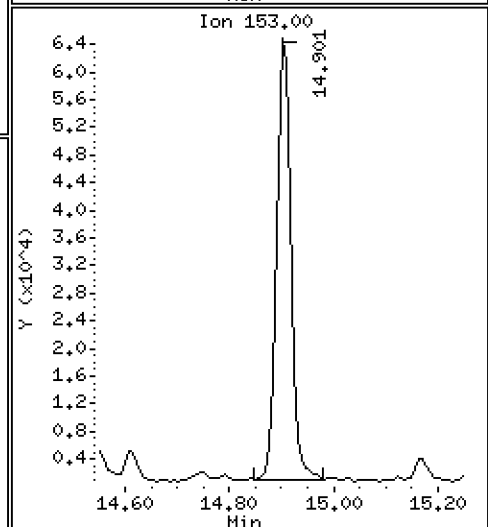
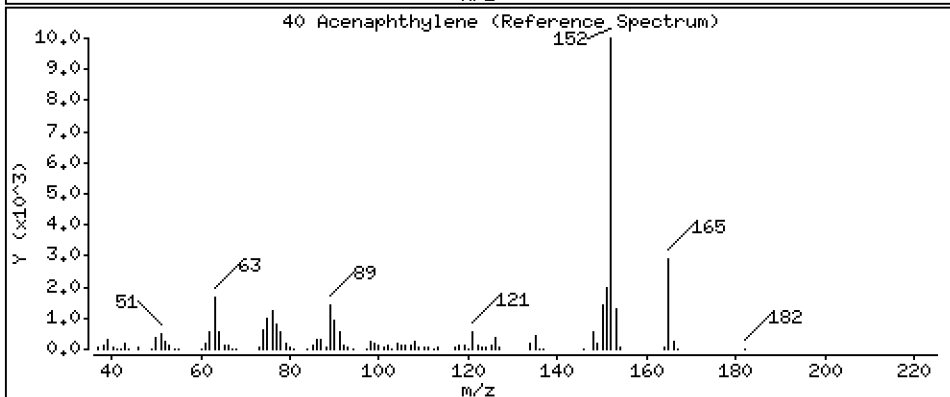
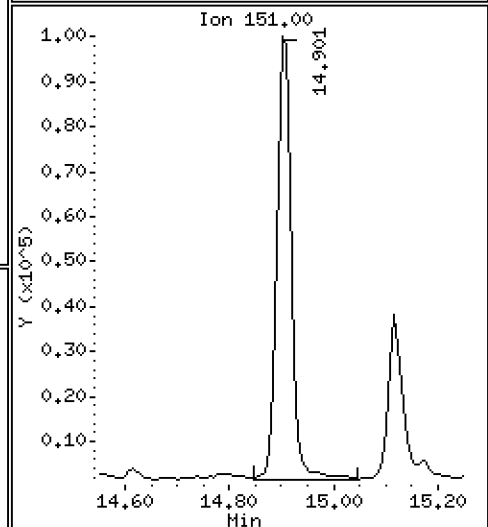
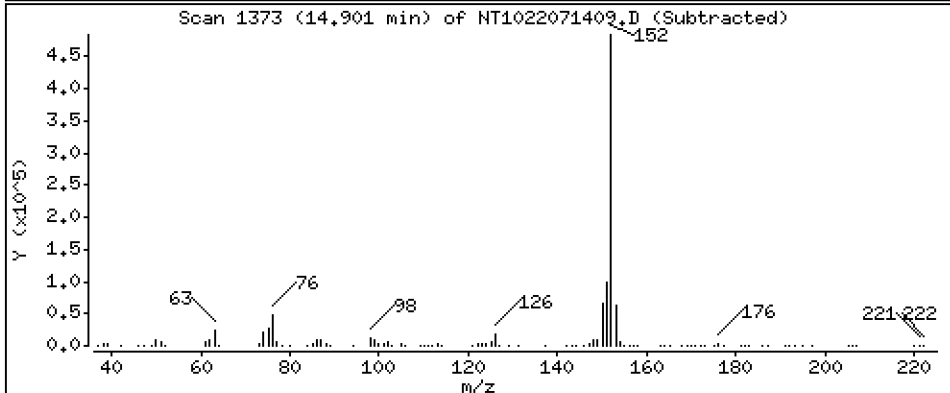
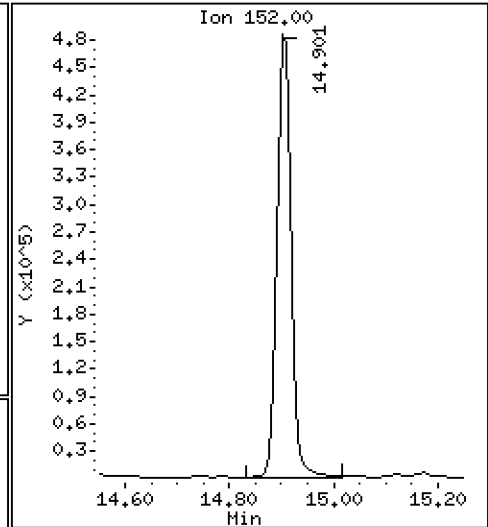
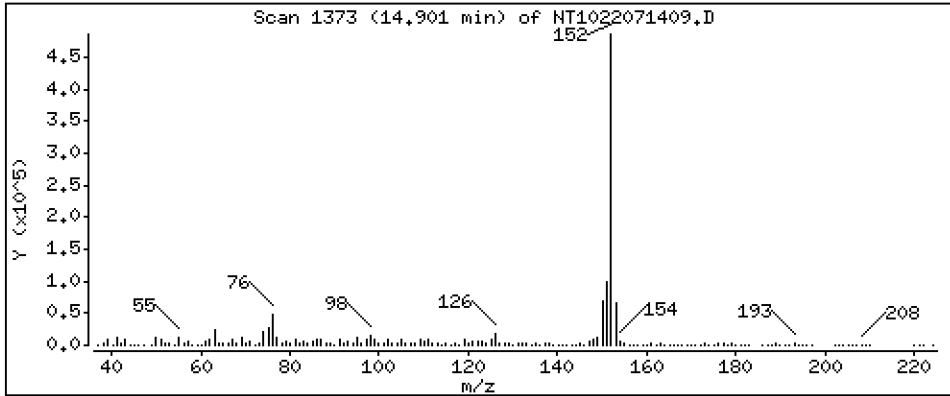
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 5,083 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 2200019-03

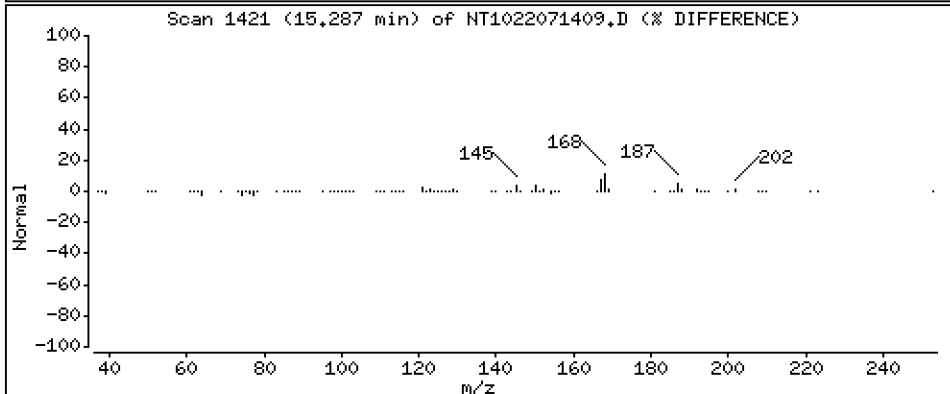
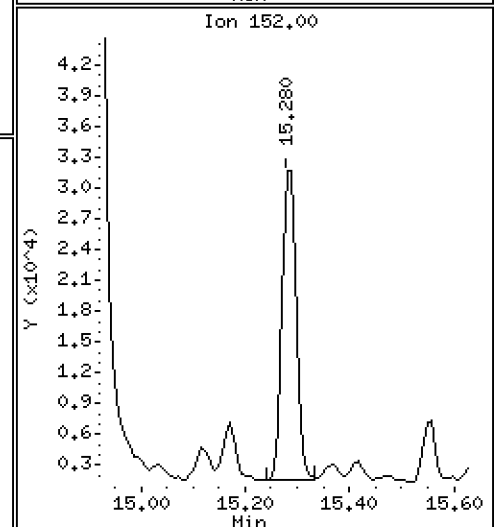
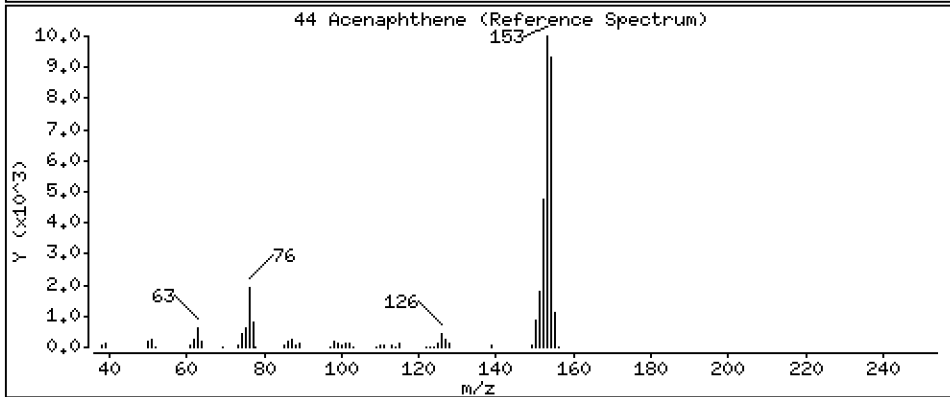
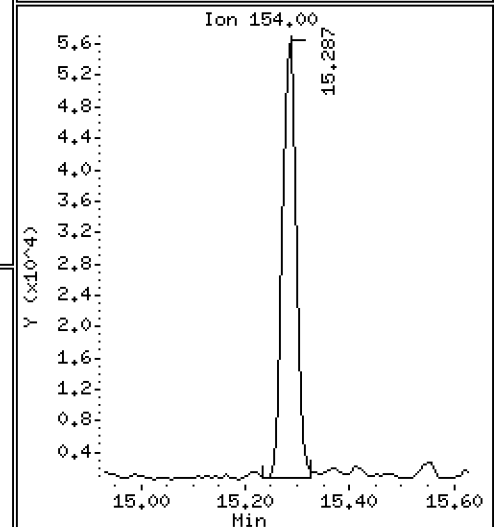
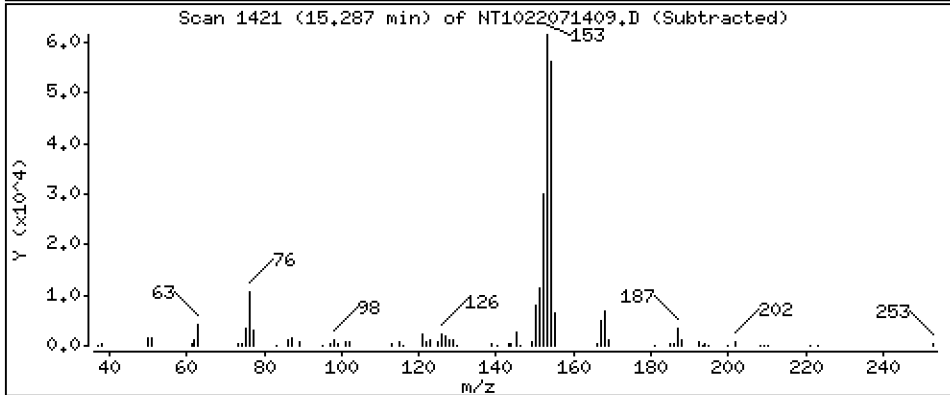
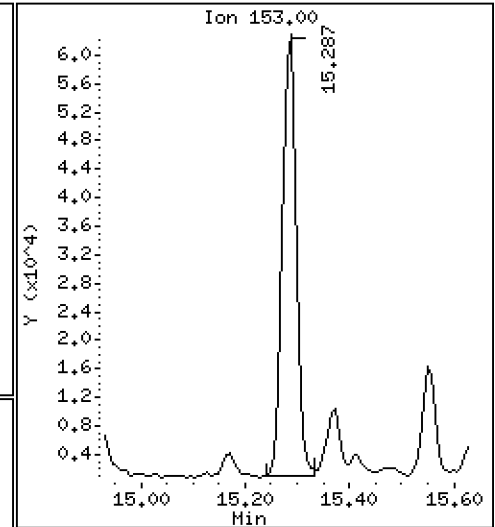
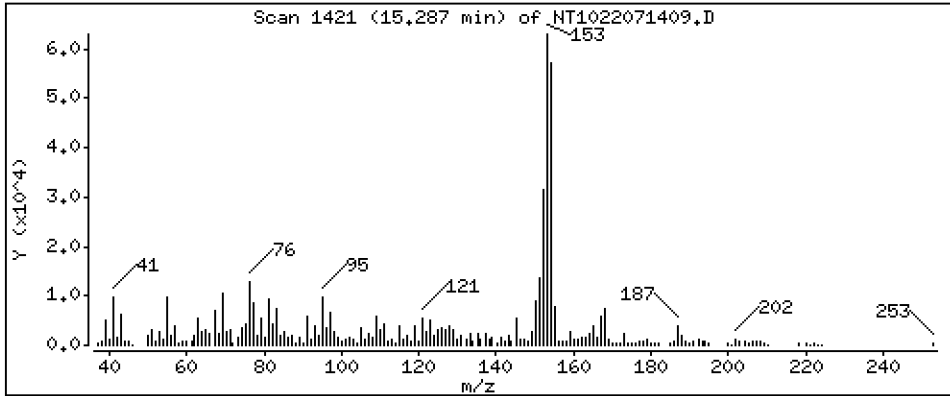
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 1,183 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

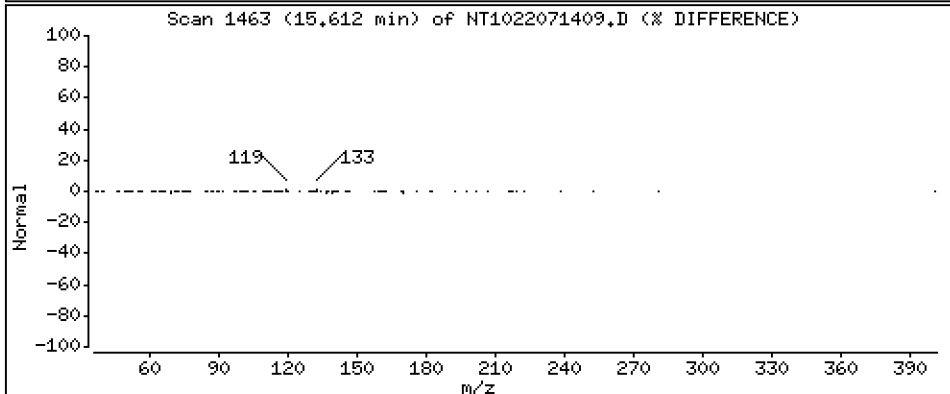
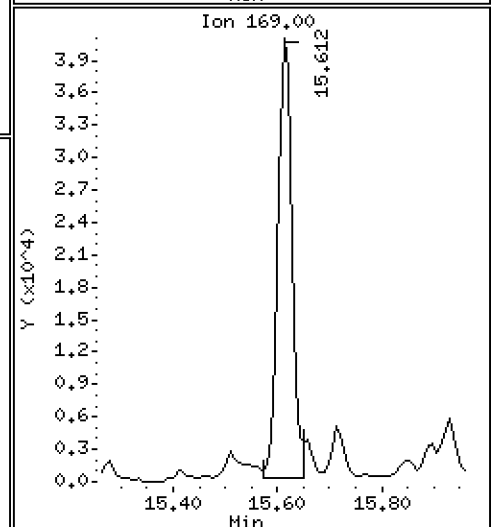
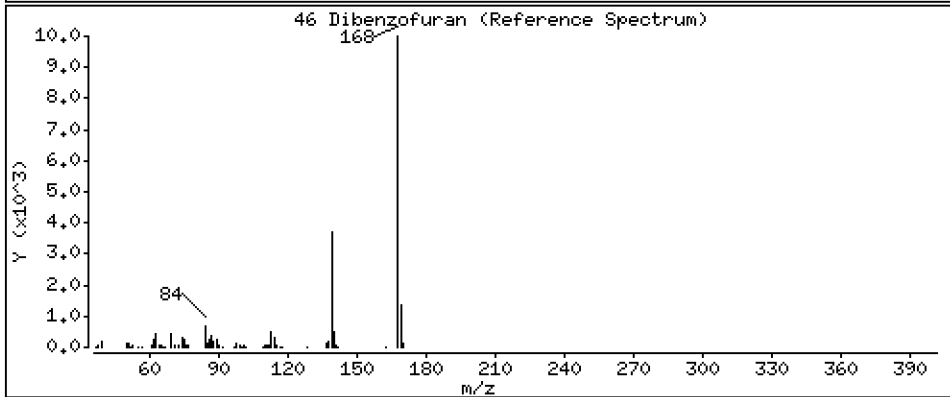
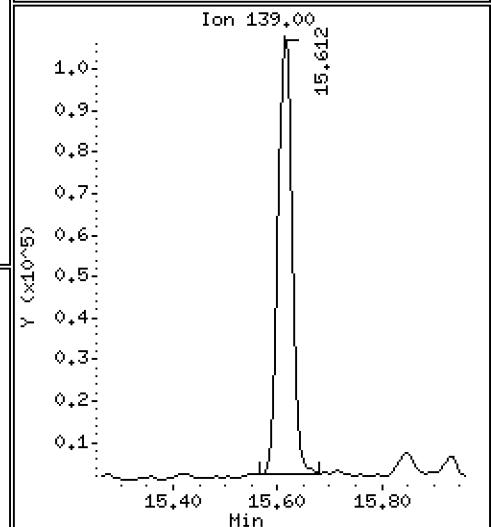
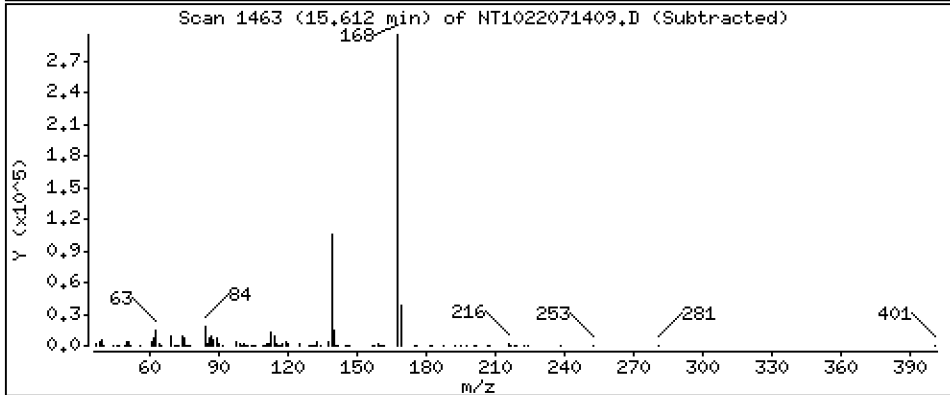
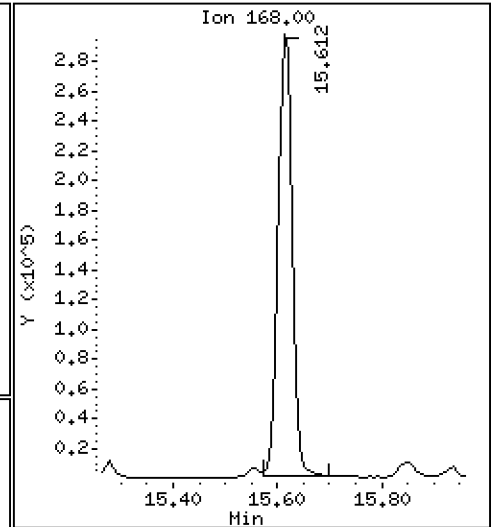
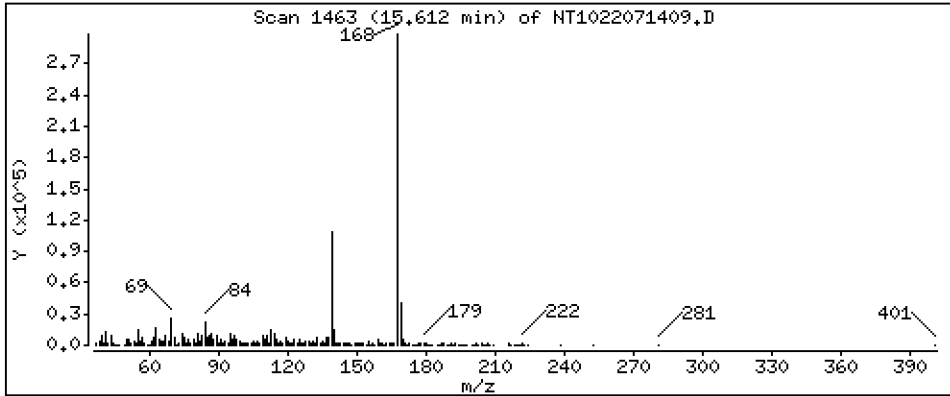
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 3,576 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

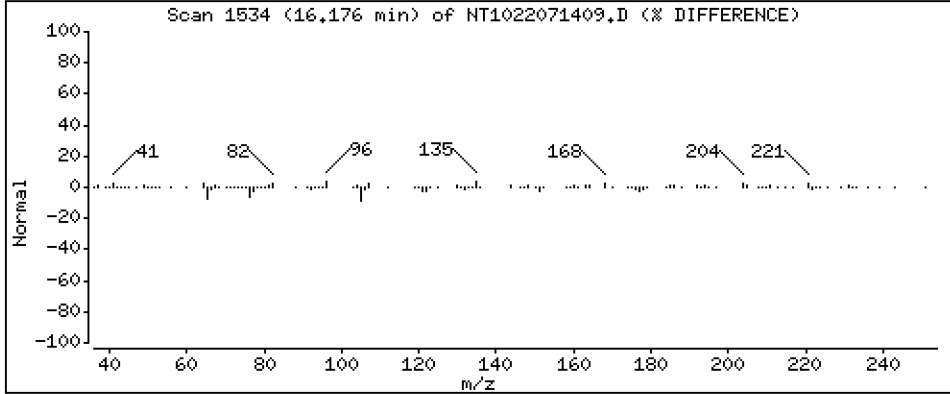
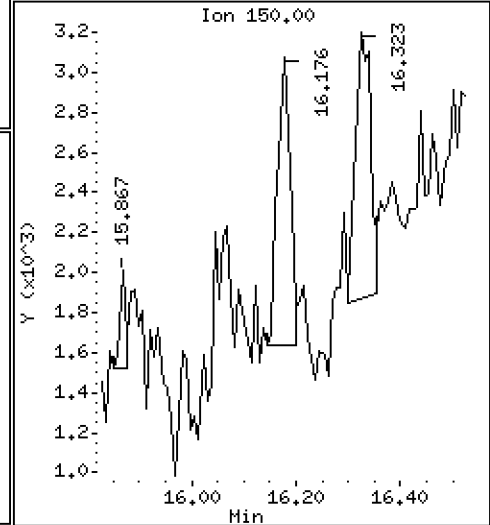
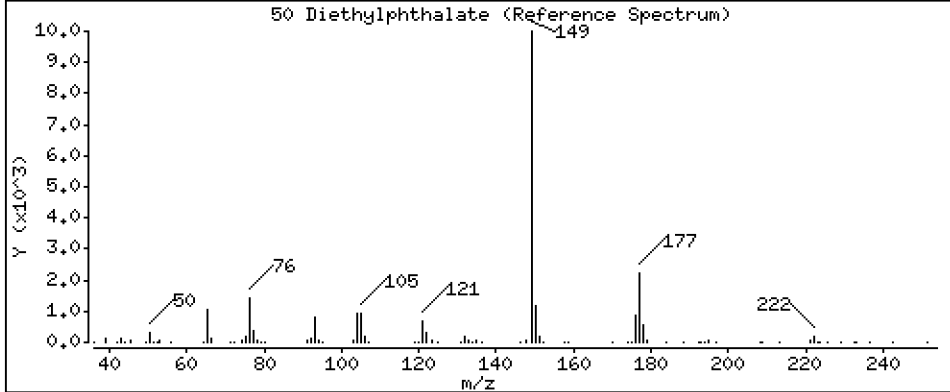
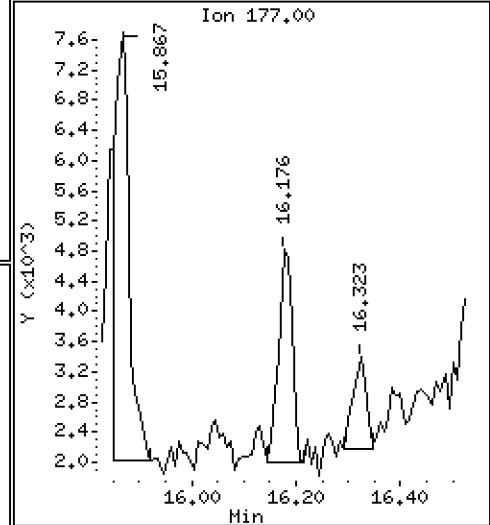
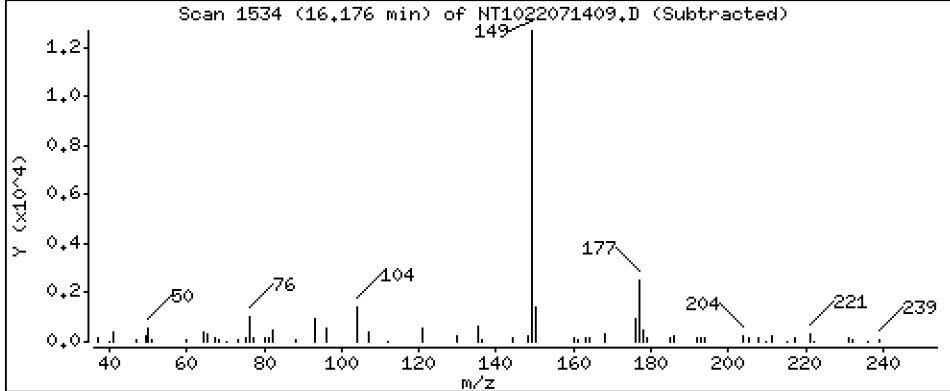
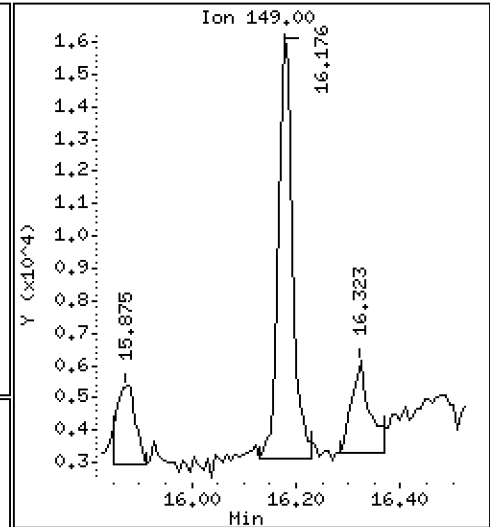
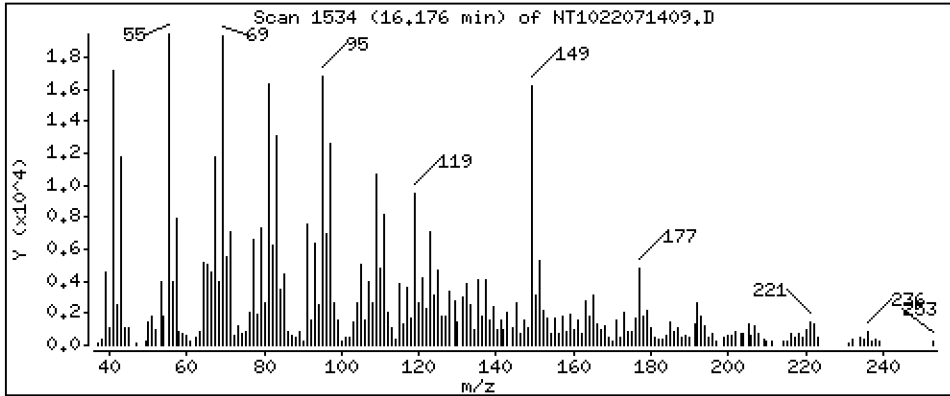
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.2433 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

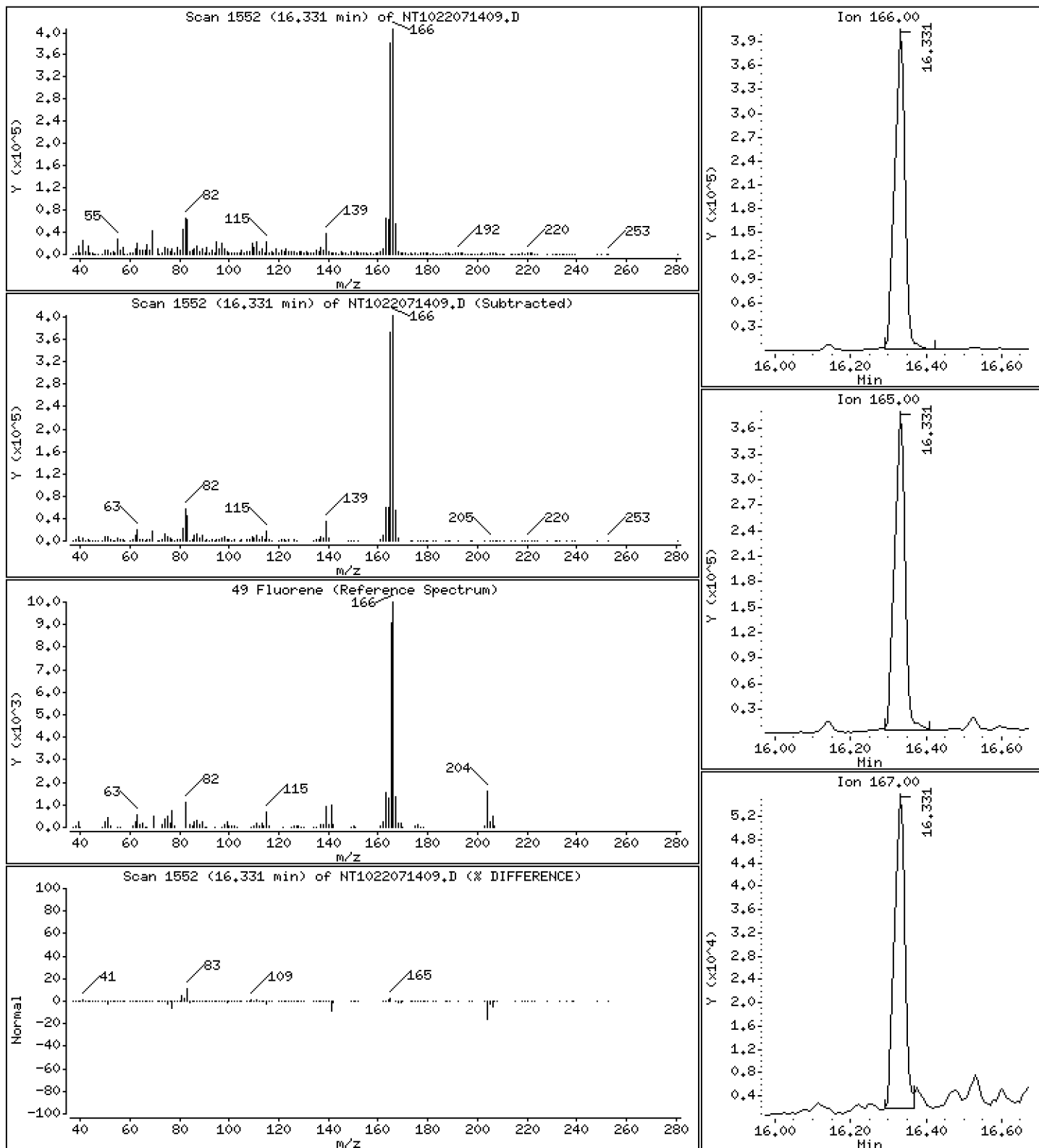
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 3,901 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

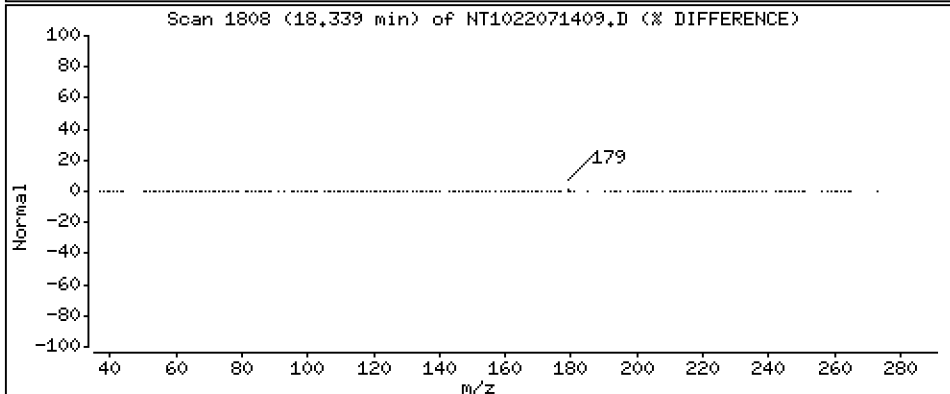
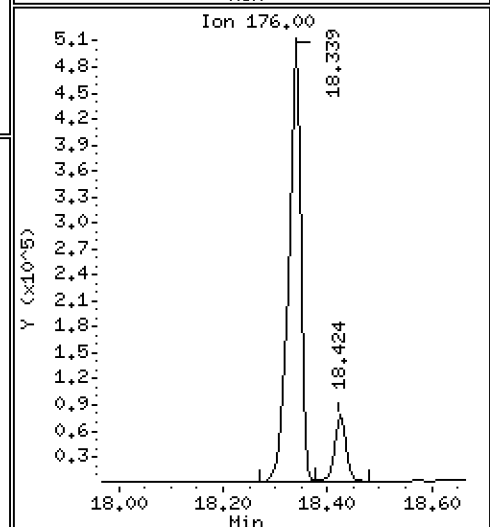
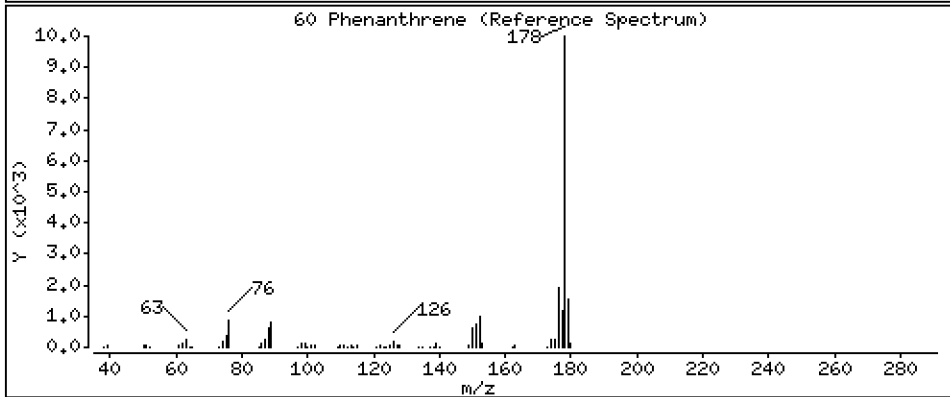
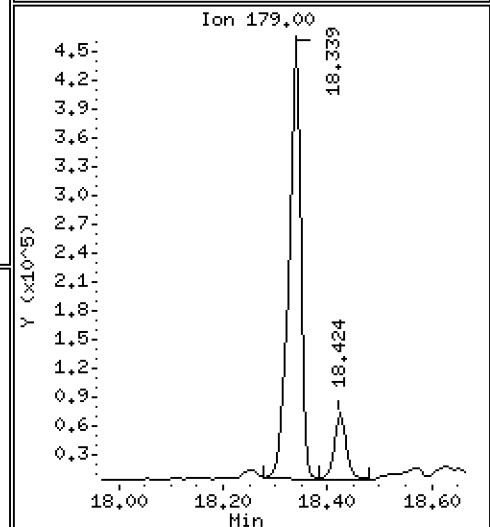
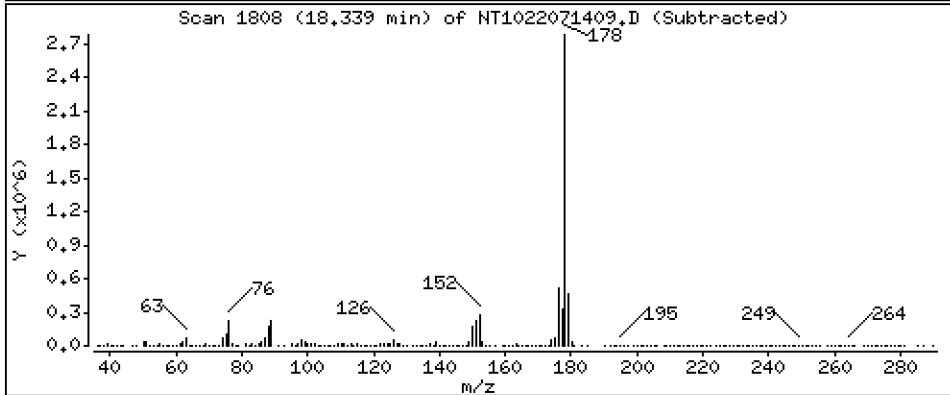
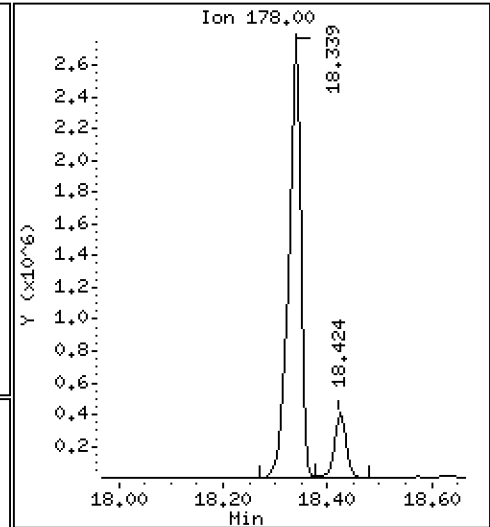
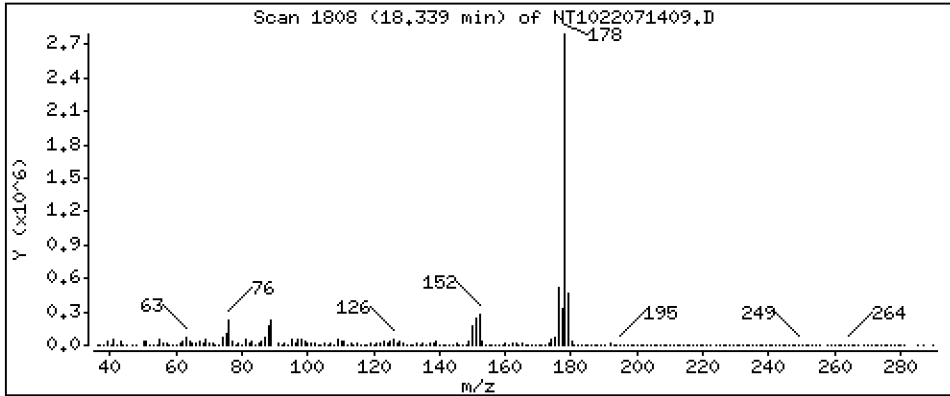
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 48,30 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

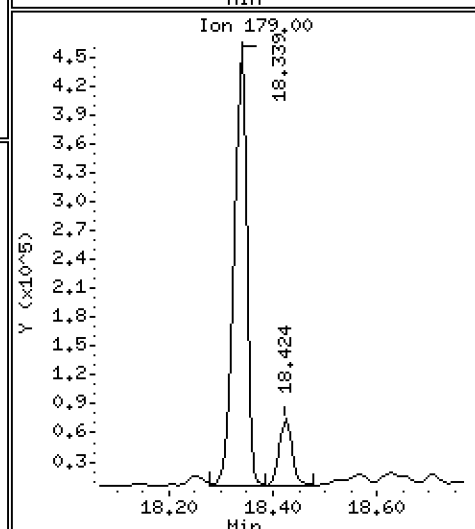
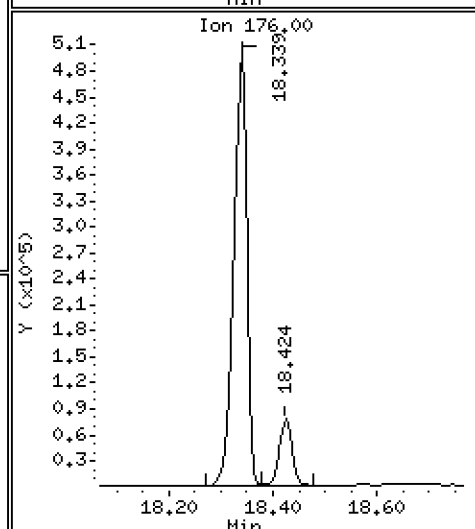
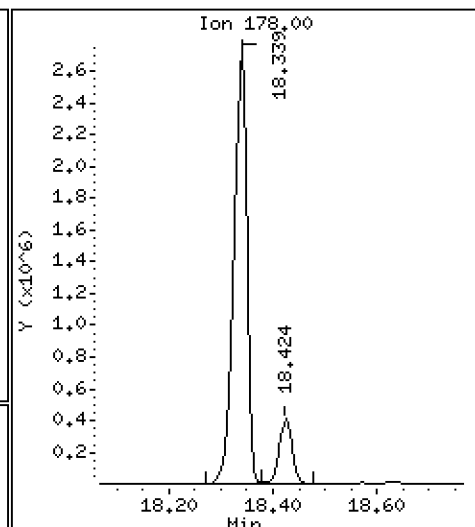
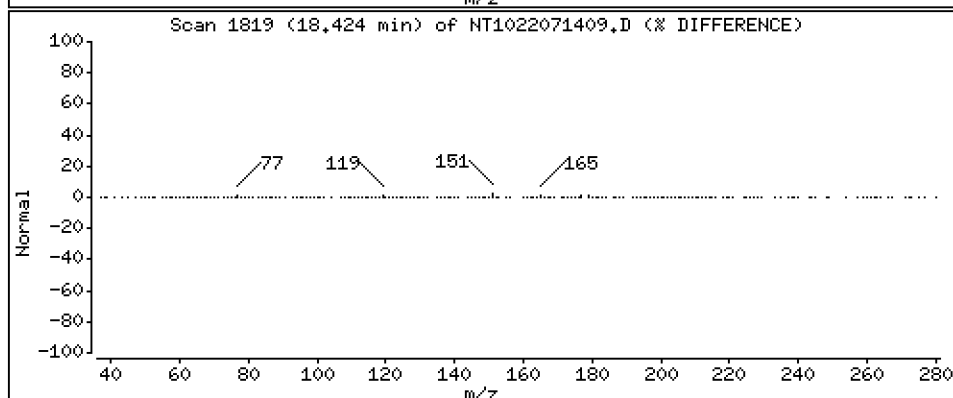
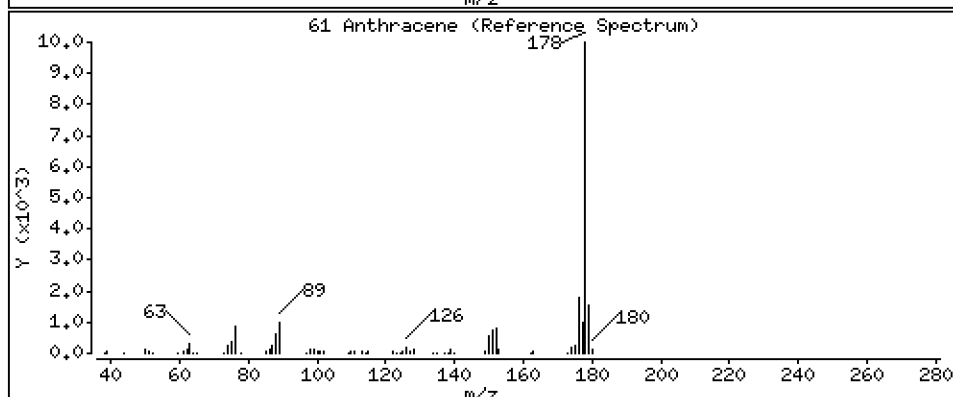
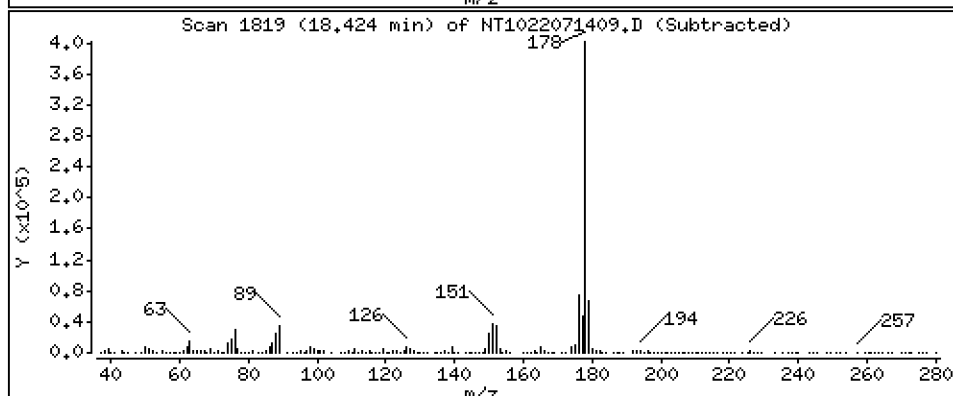
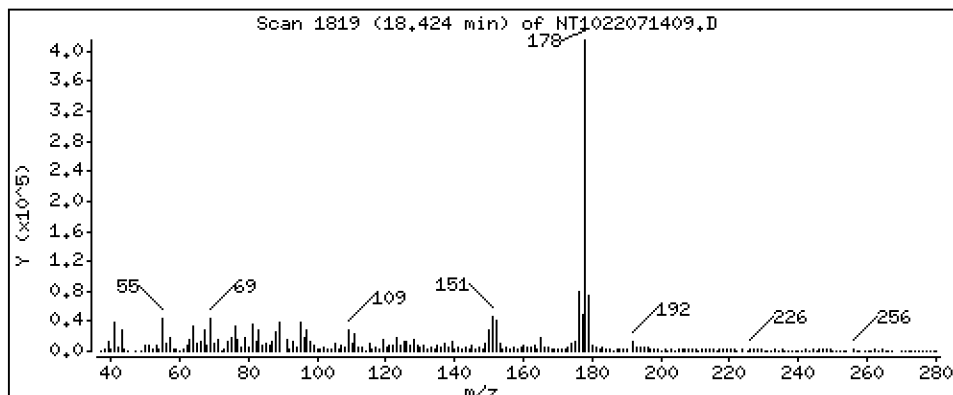
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 6,631 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

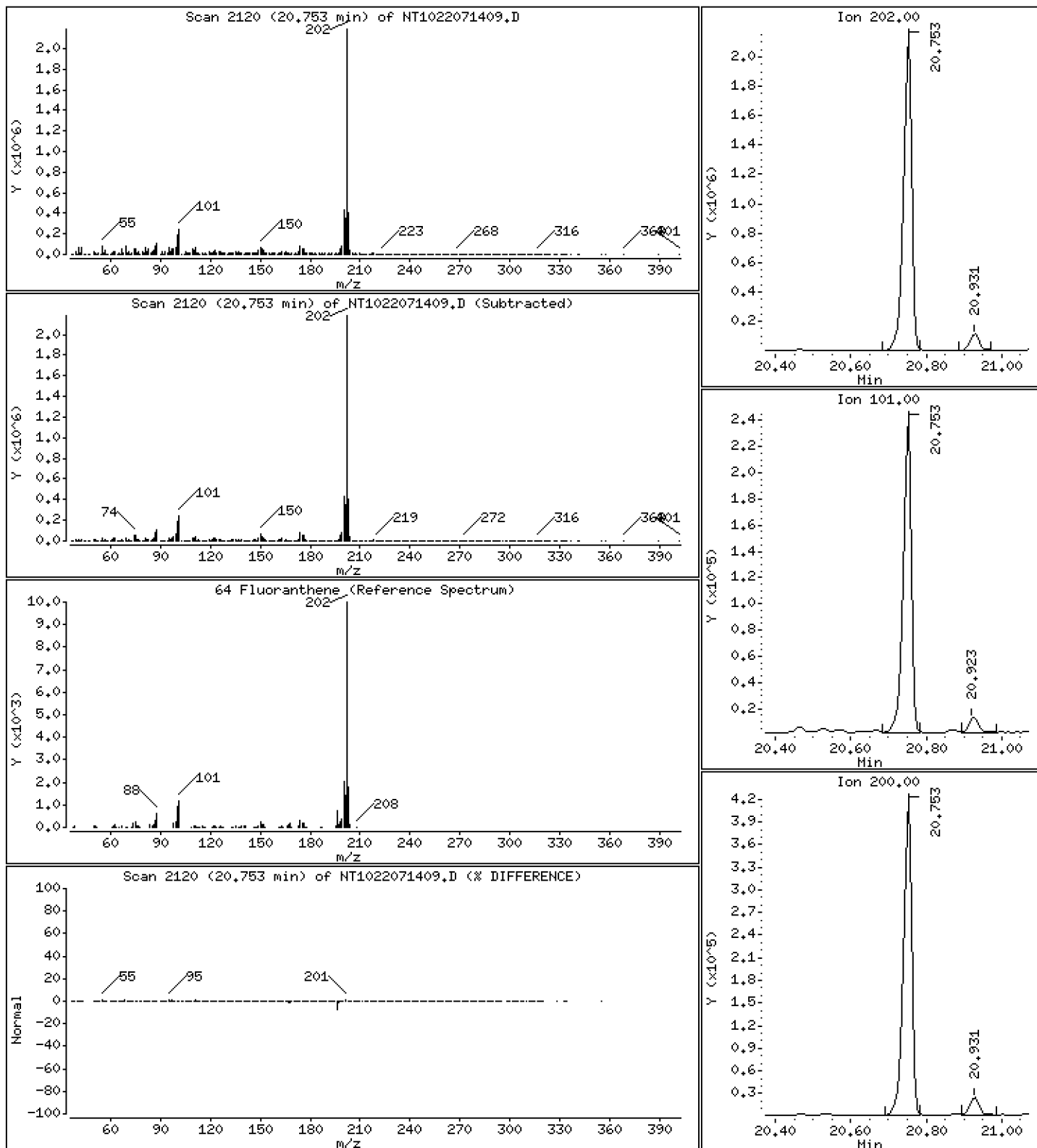
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 23,27 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 2200019-03

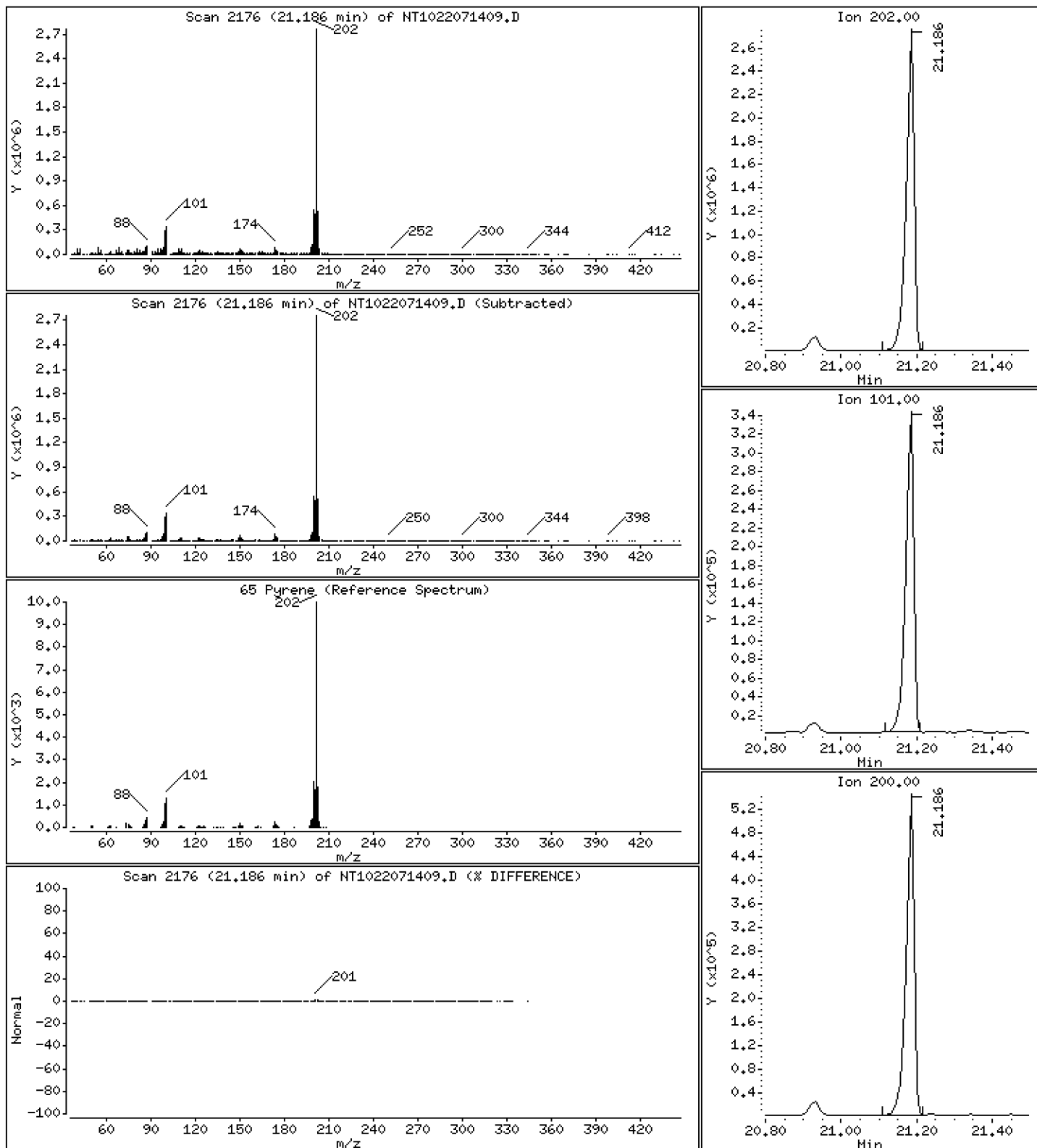
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 27,54 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 2200019-03

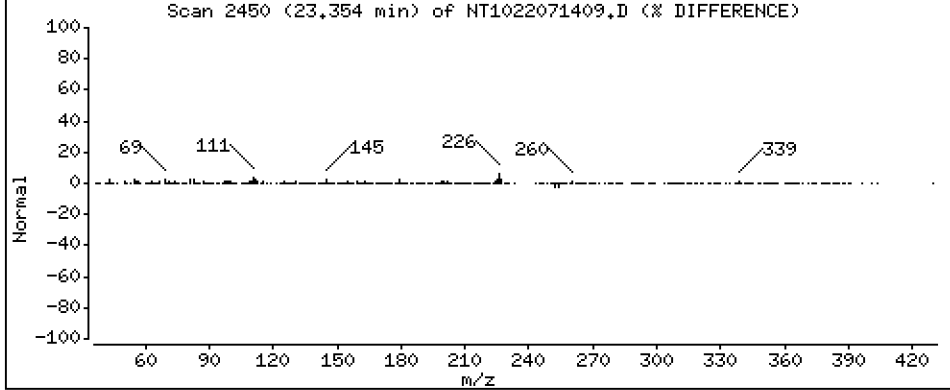
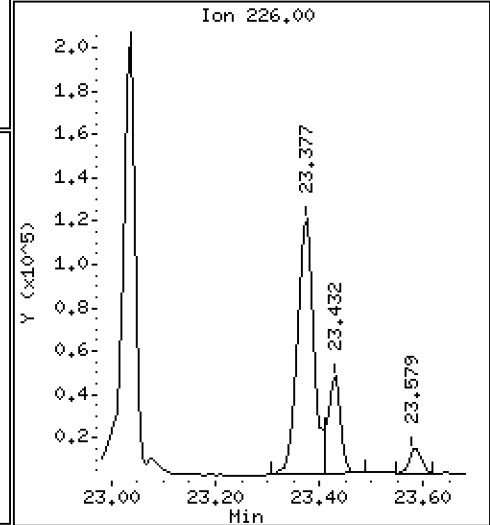
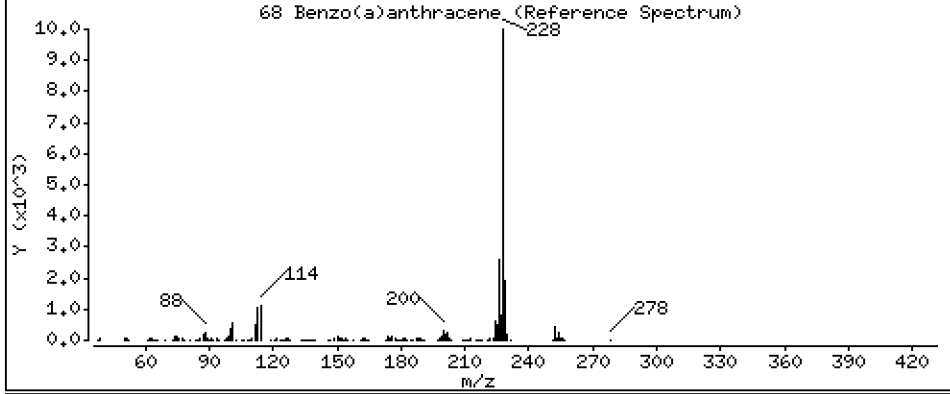
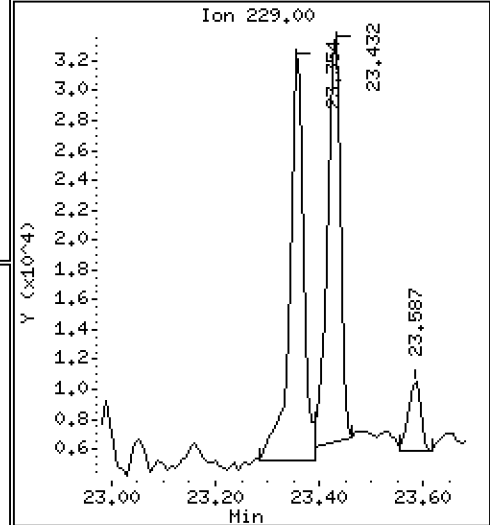
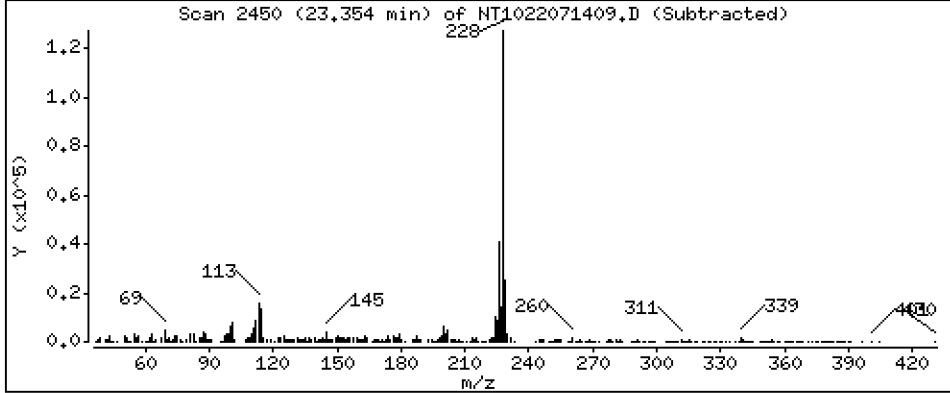
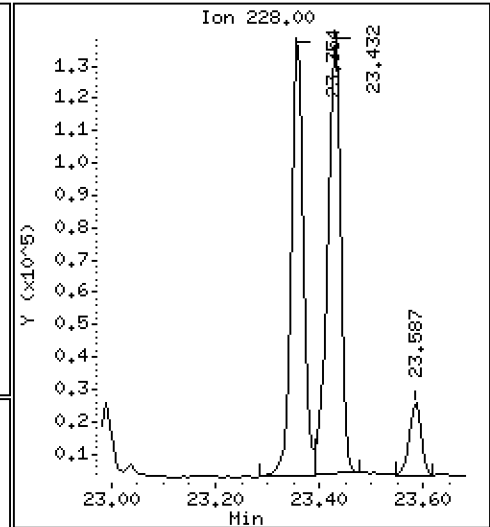
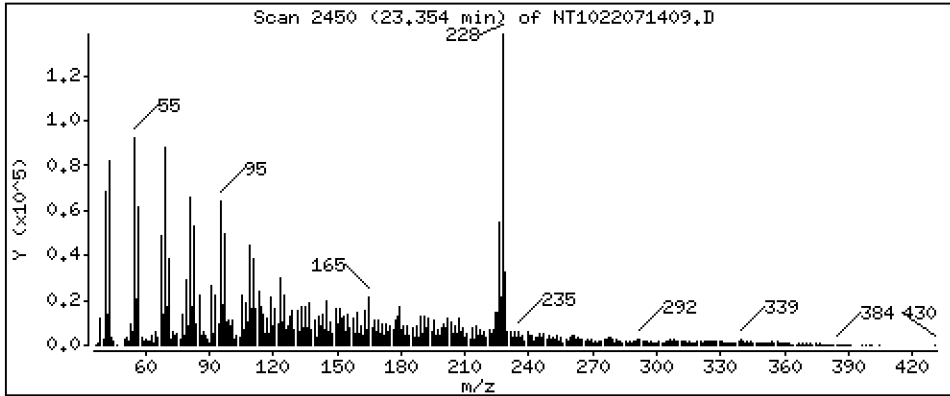
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 3,416 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

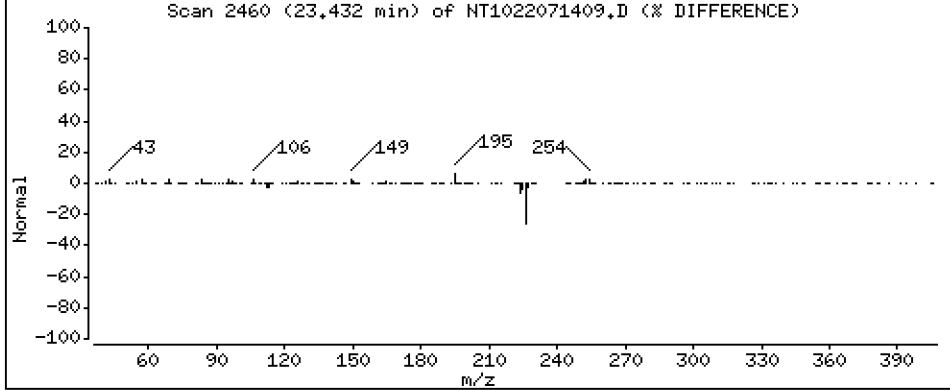
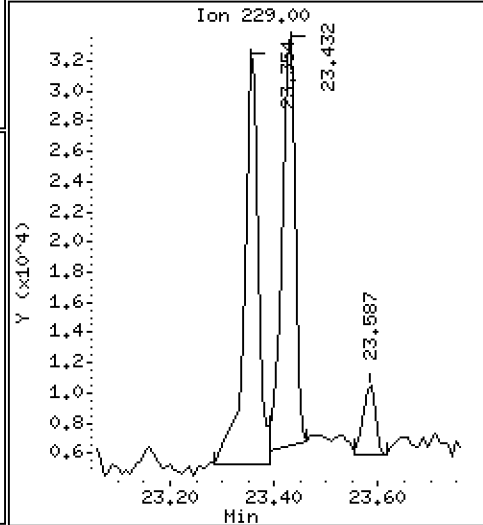
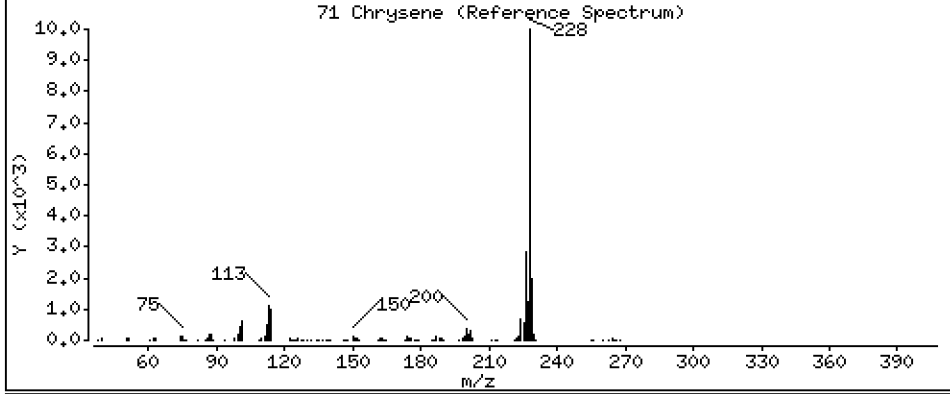
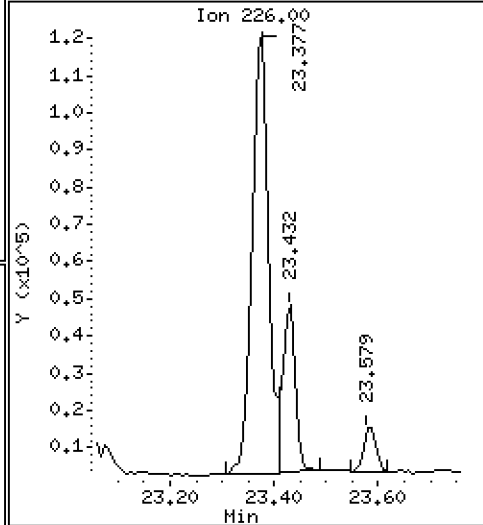
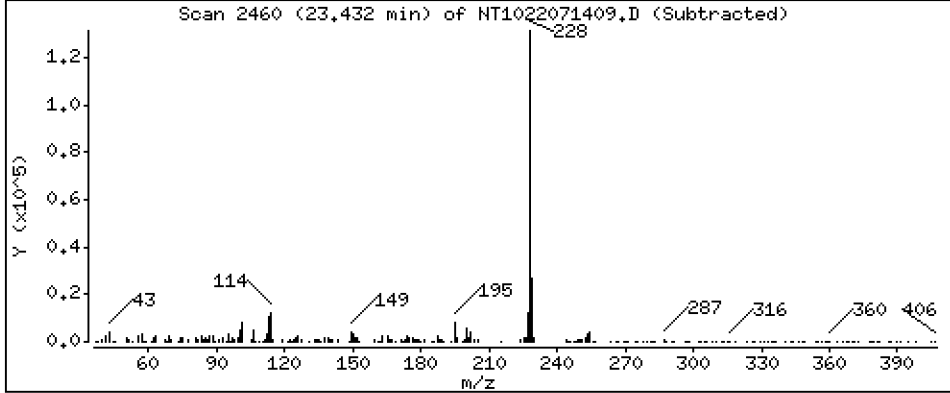
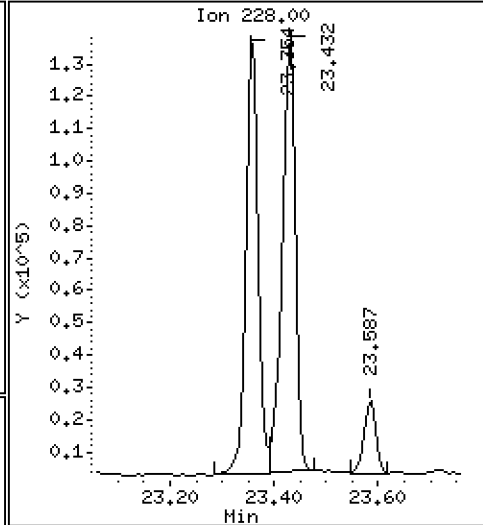
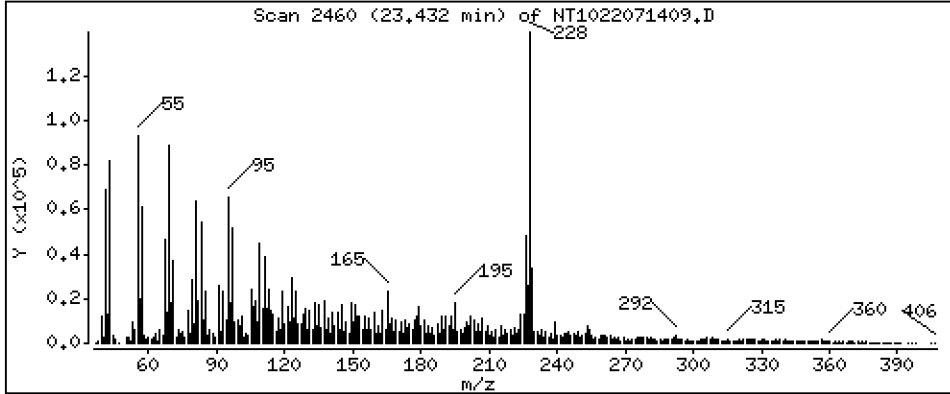
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 5,136 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

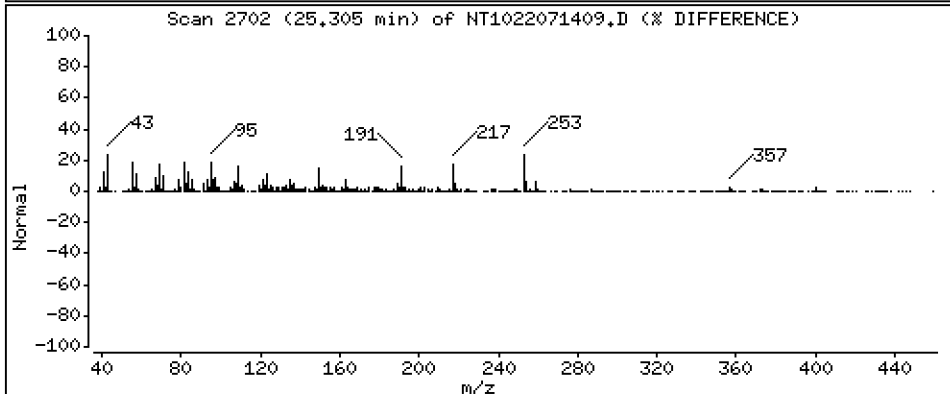
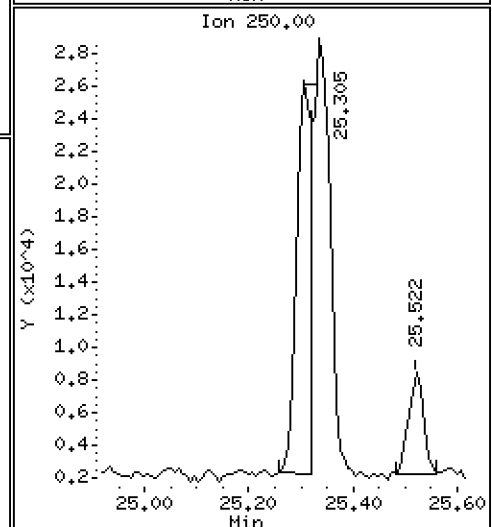
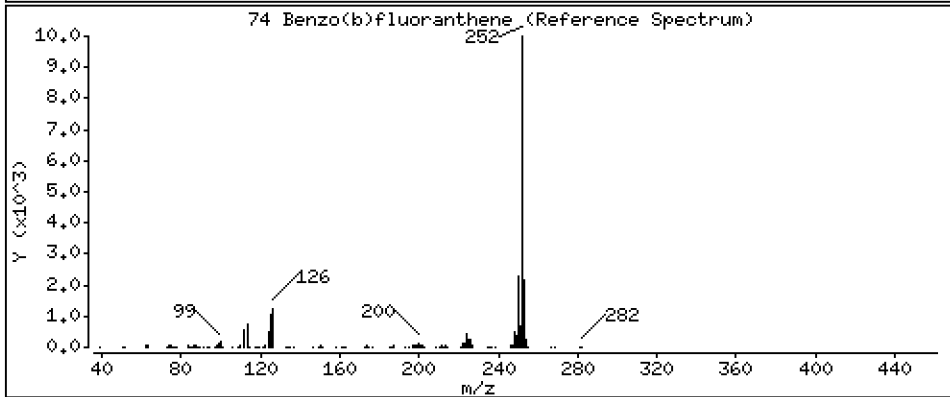
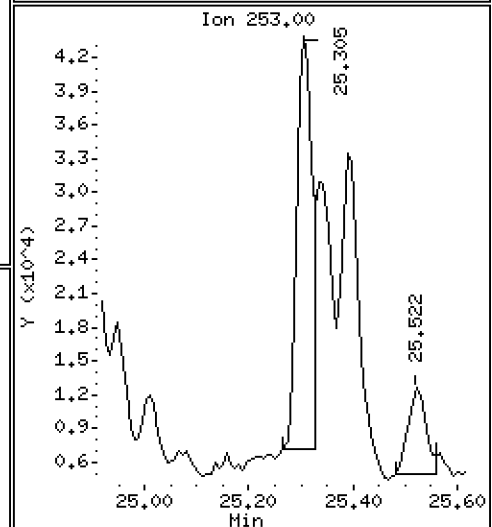
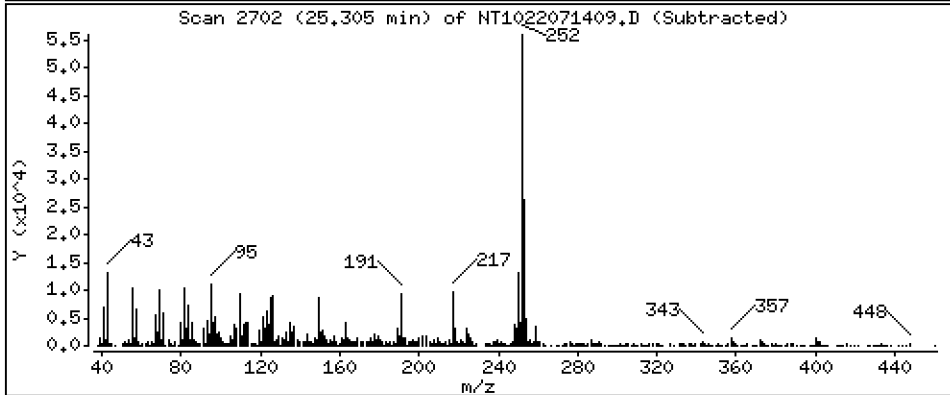
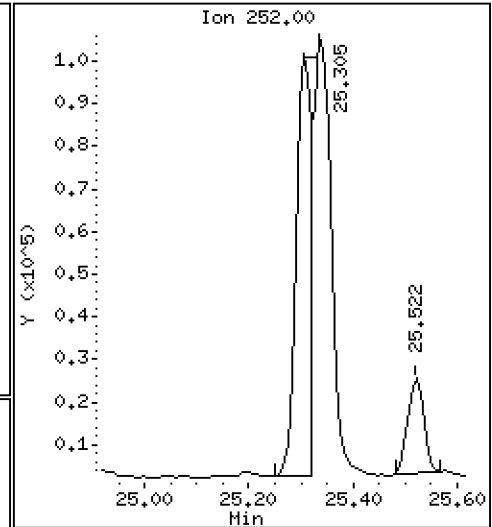
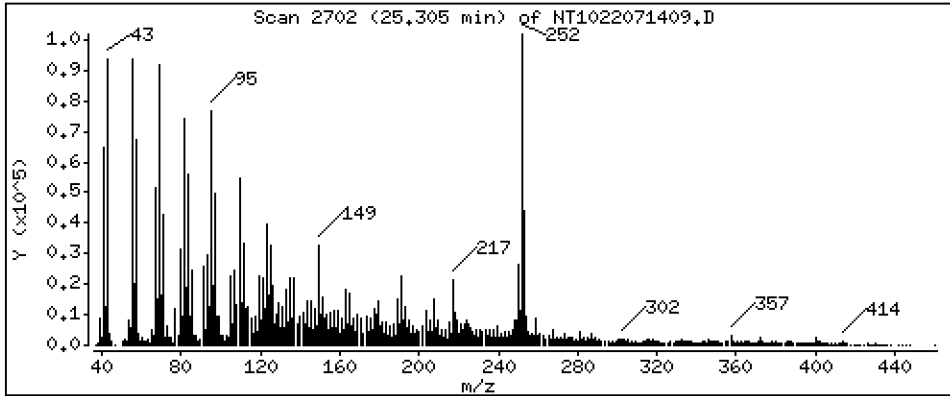
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 3,605 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

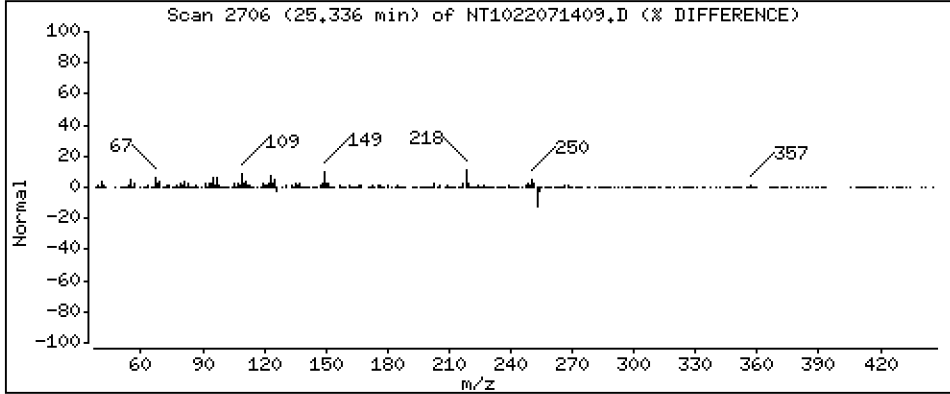
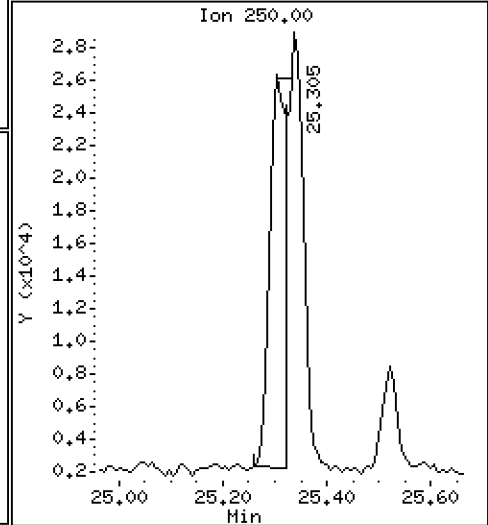
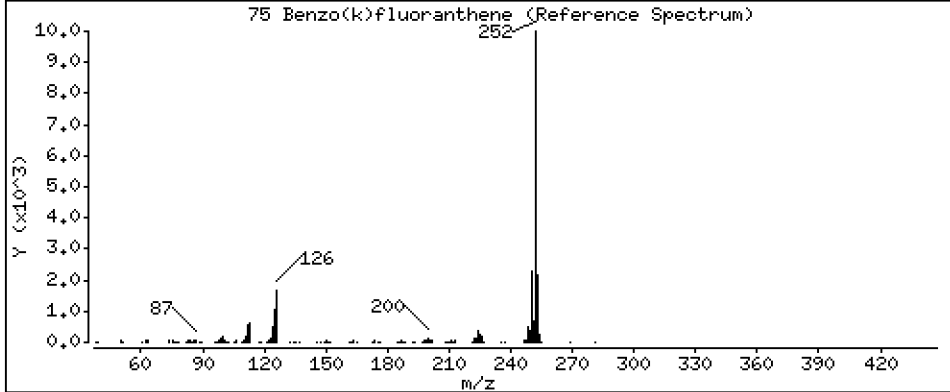
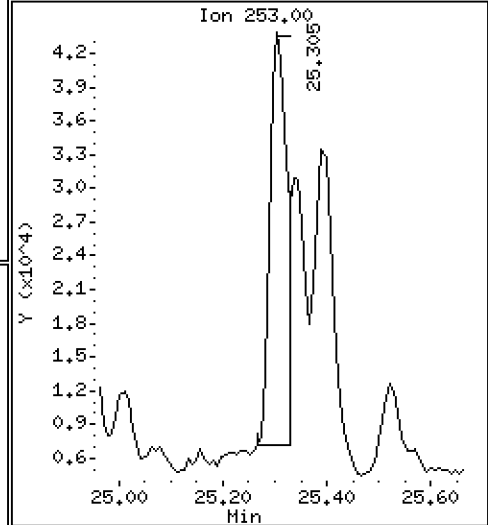
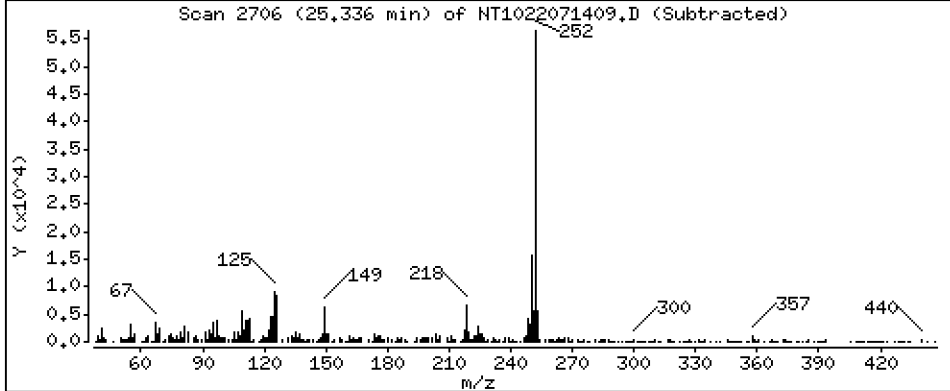
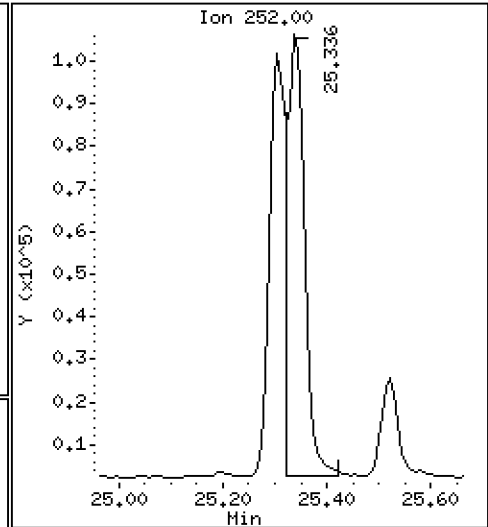
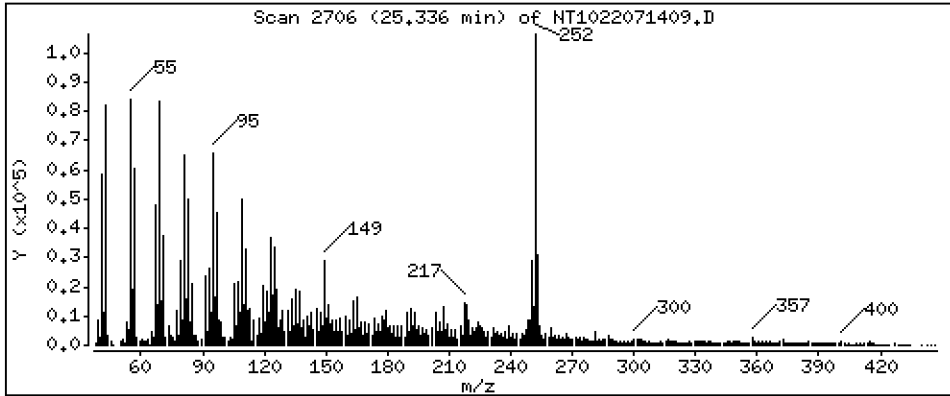
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,622 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 2200019-03

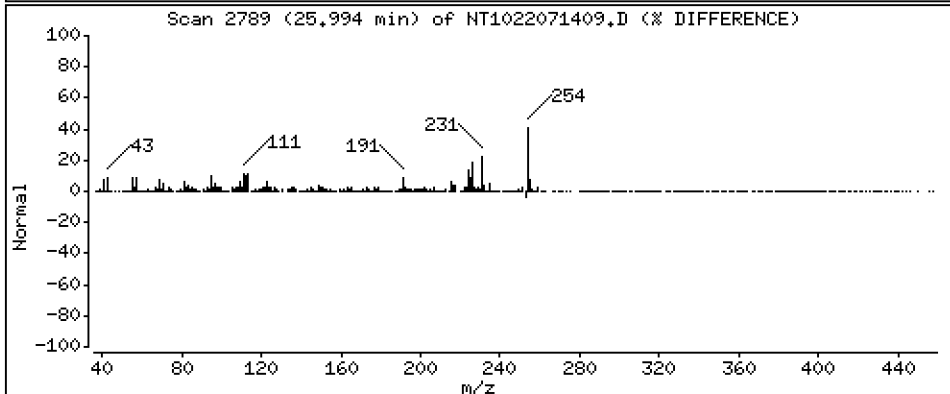
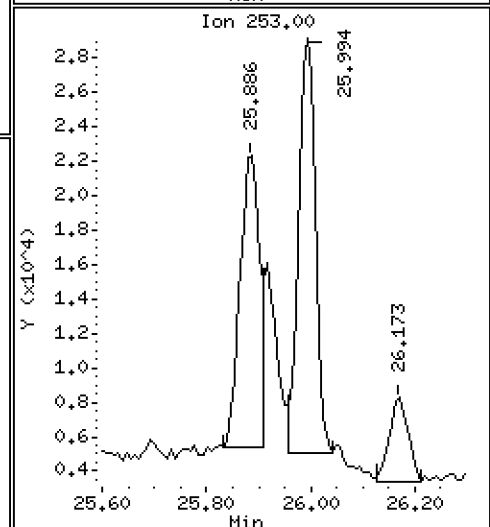
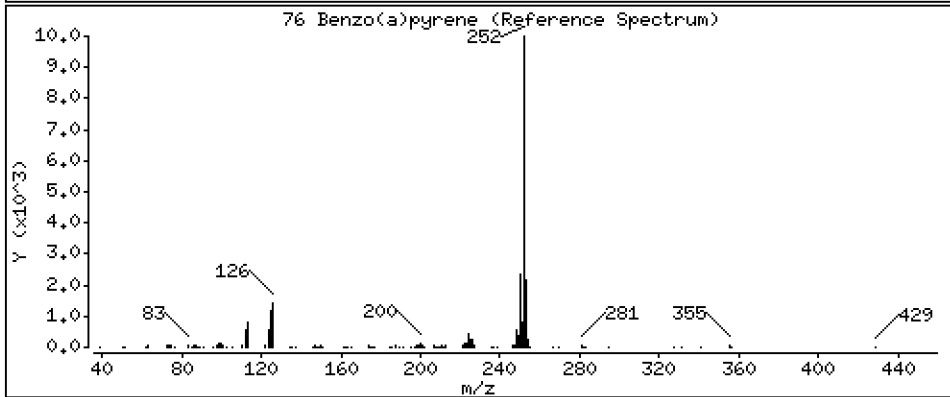
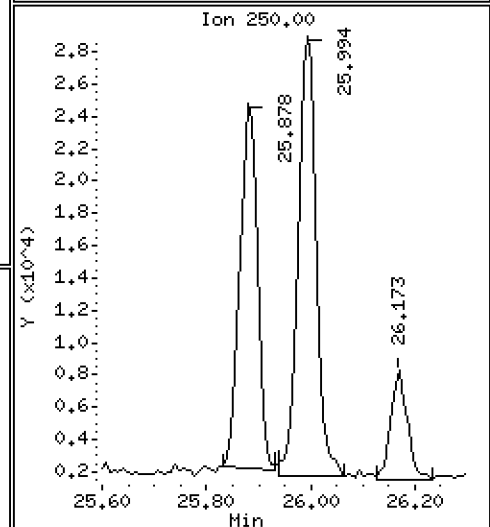
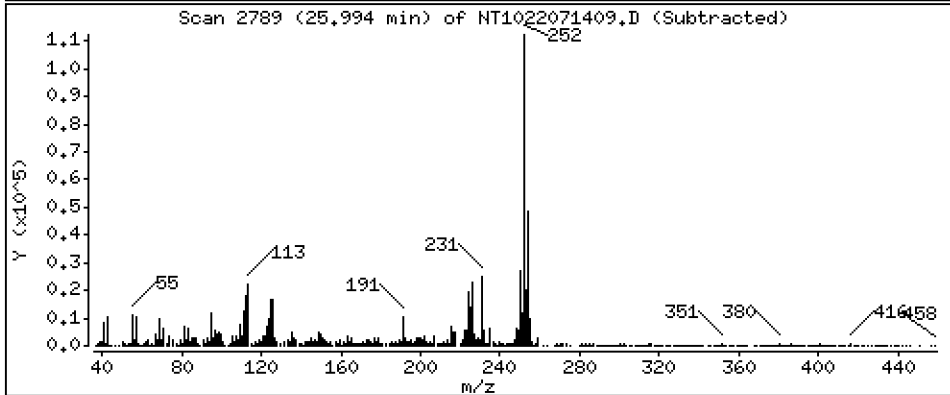
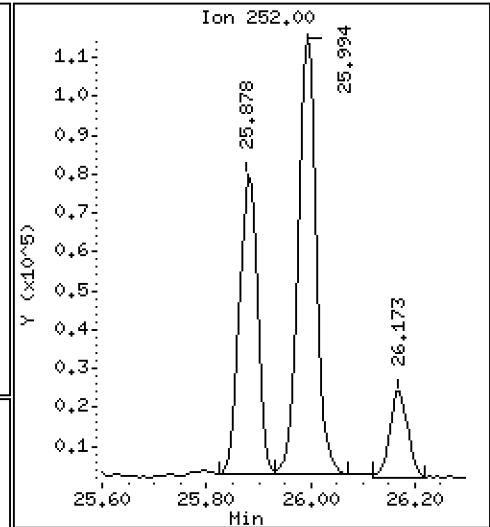
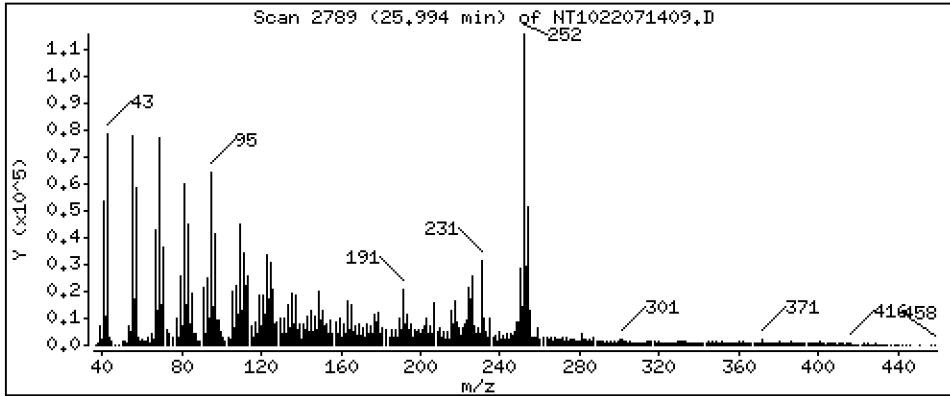
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 5,977 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

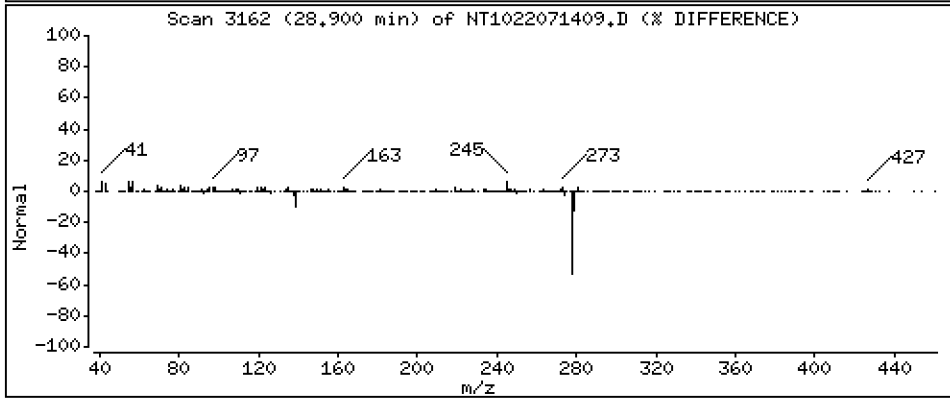
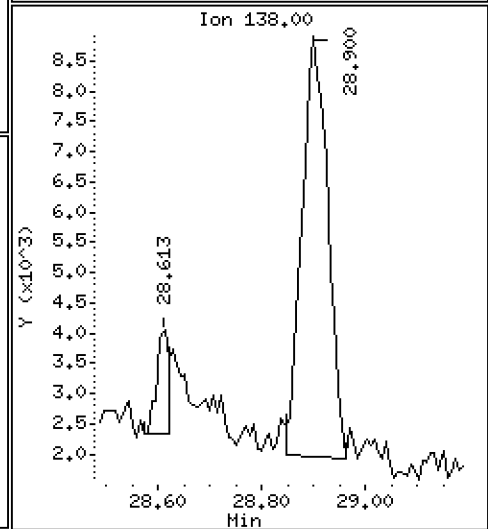
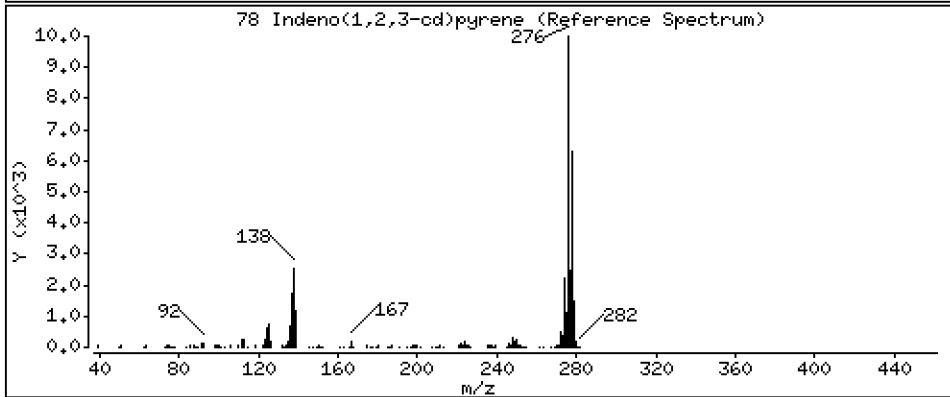
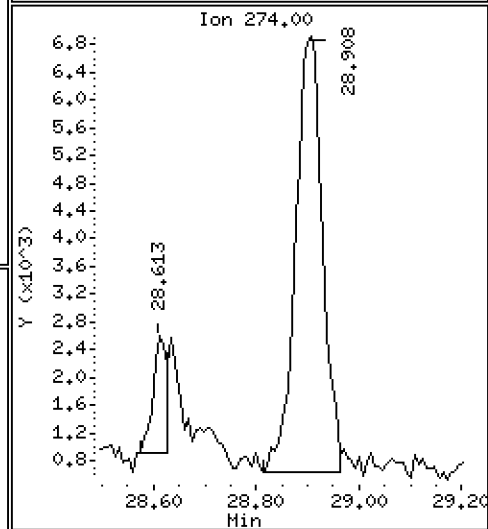
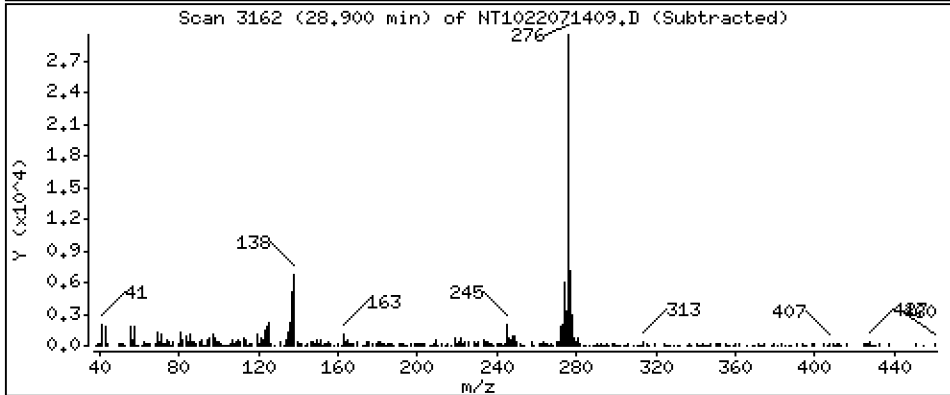
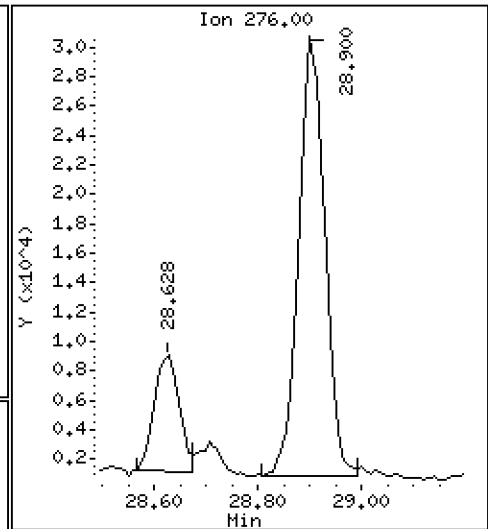
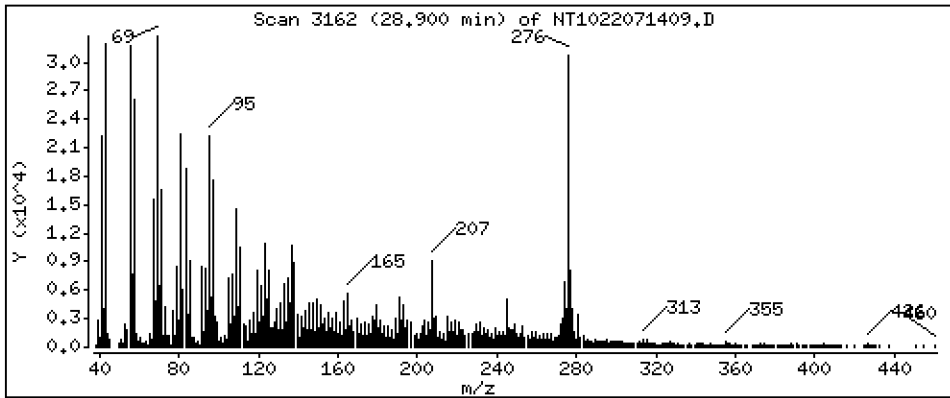
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 2,075 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03

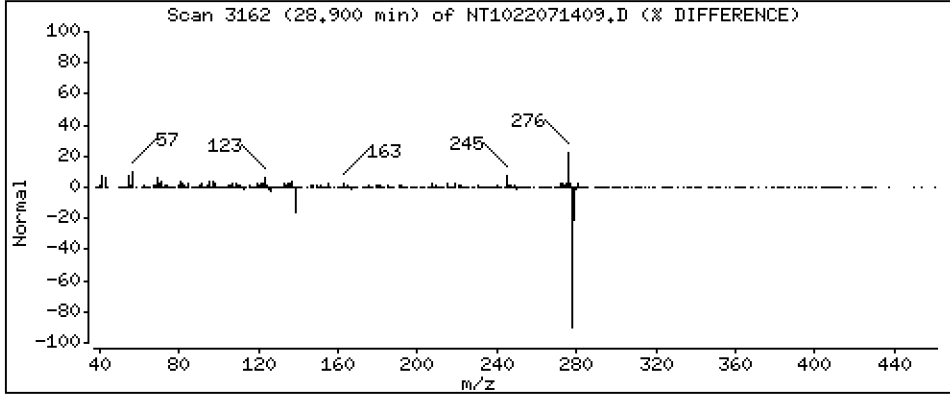
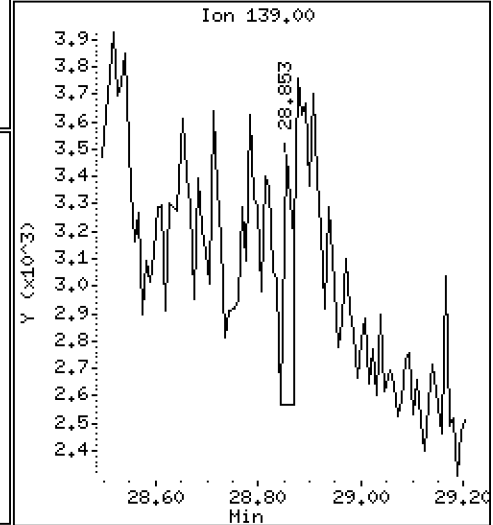
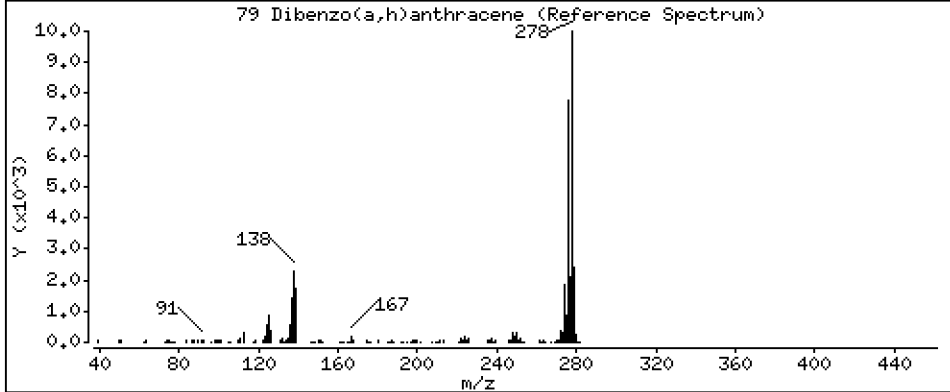
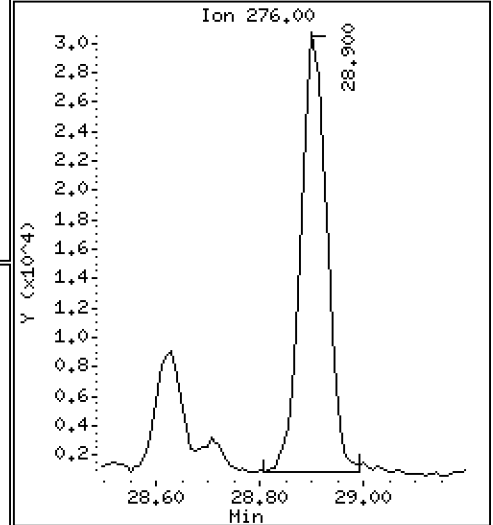
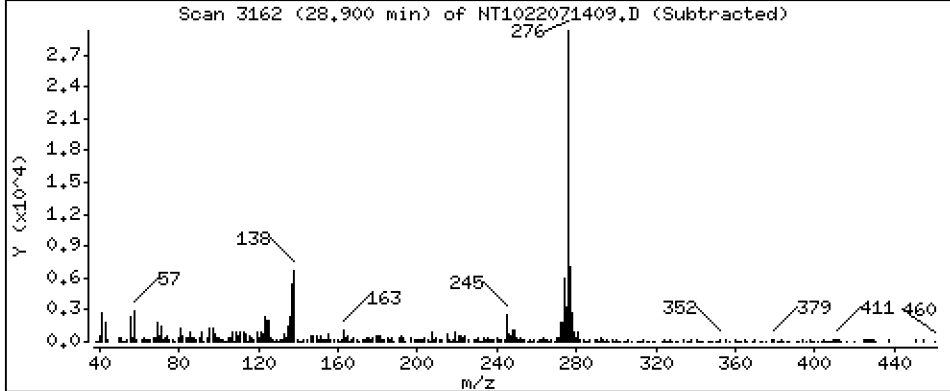
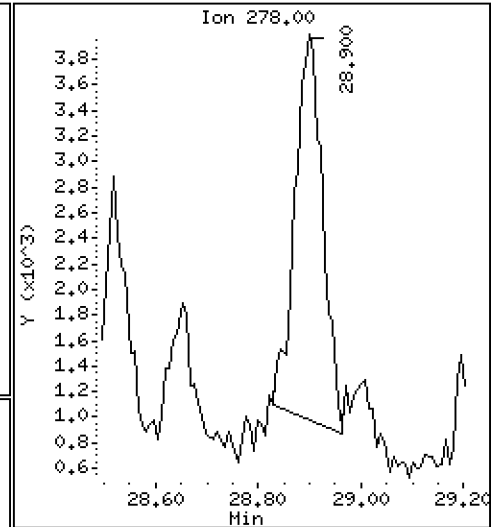
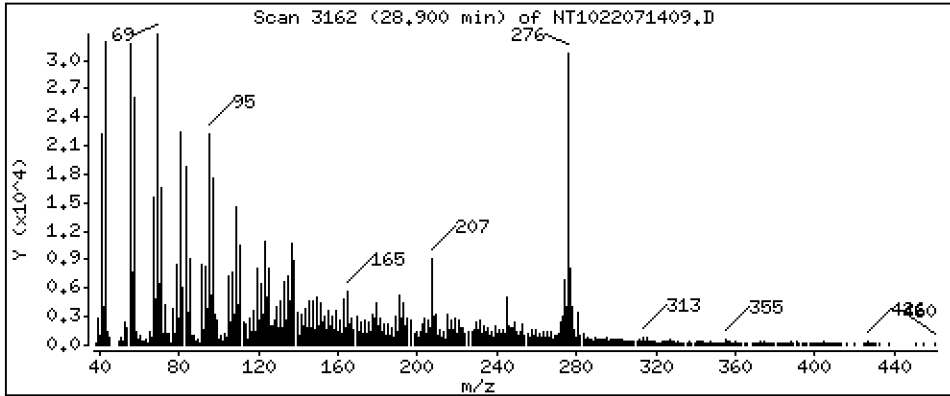
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2977 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 2200019-03

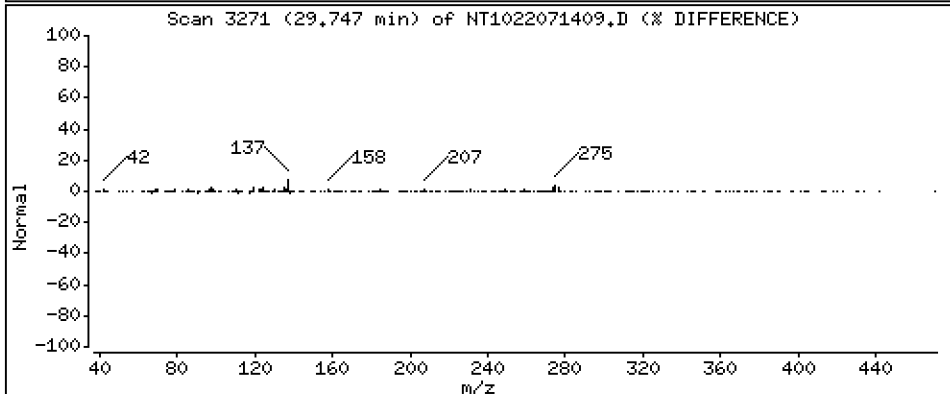
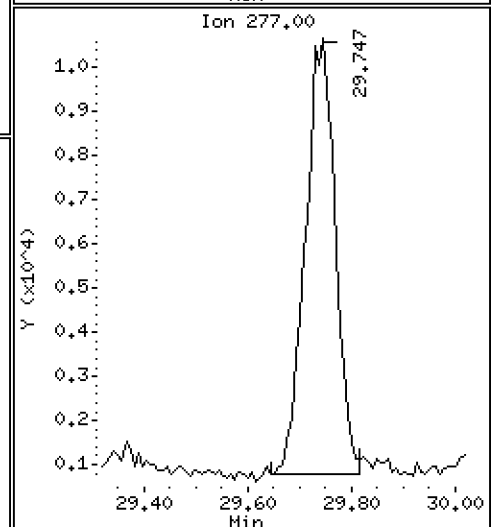
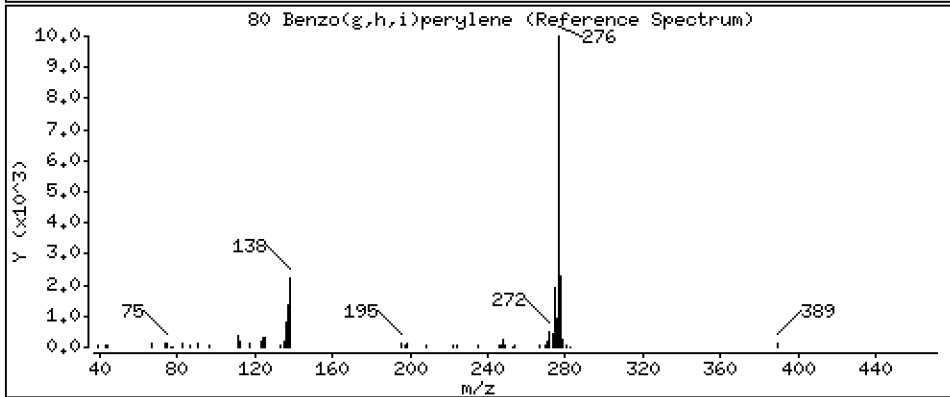
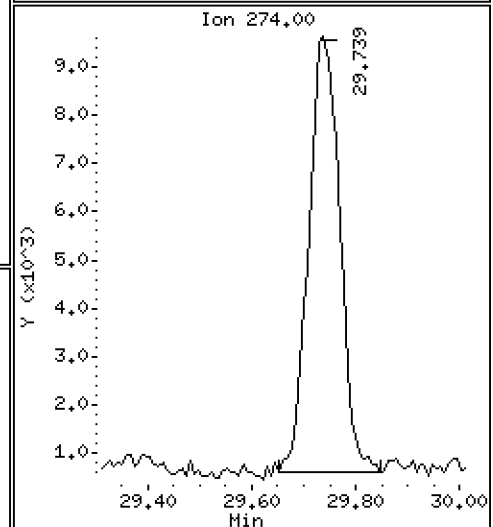
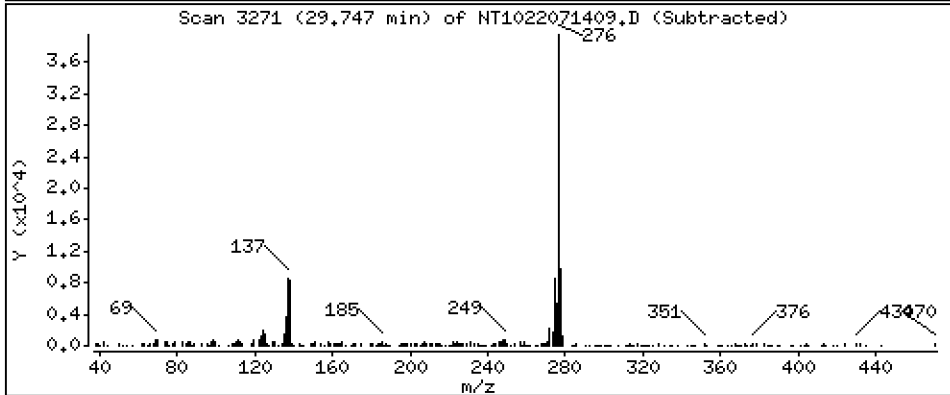
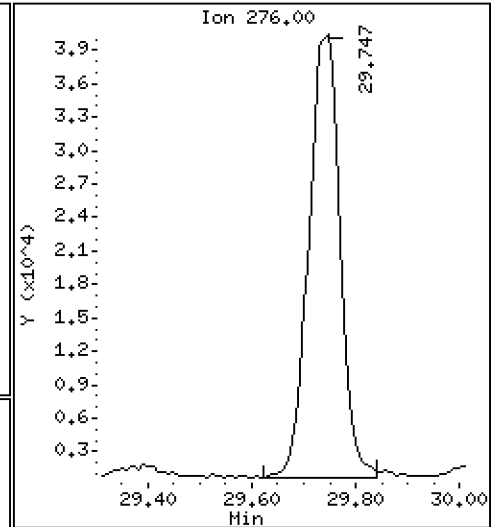
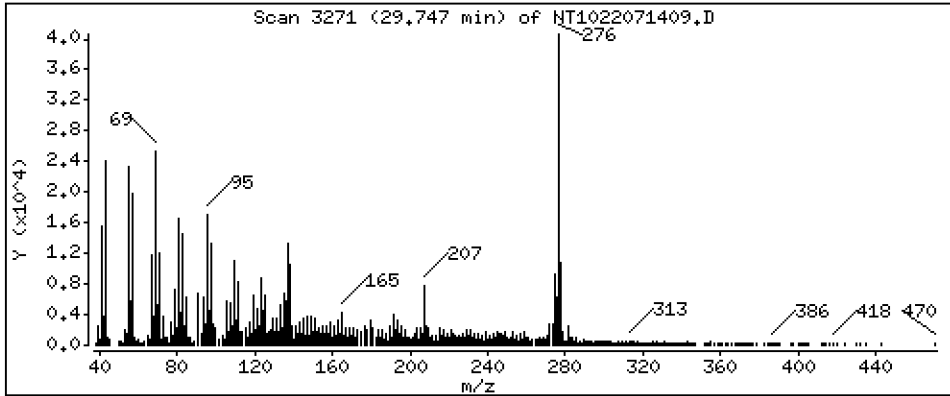
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,097 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 2200019-03

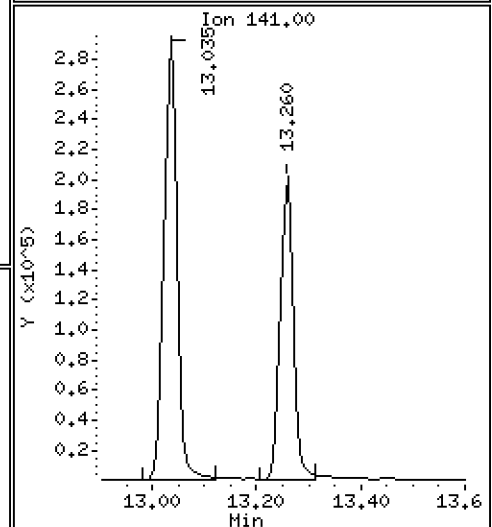
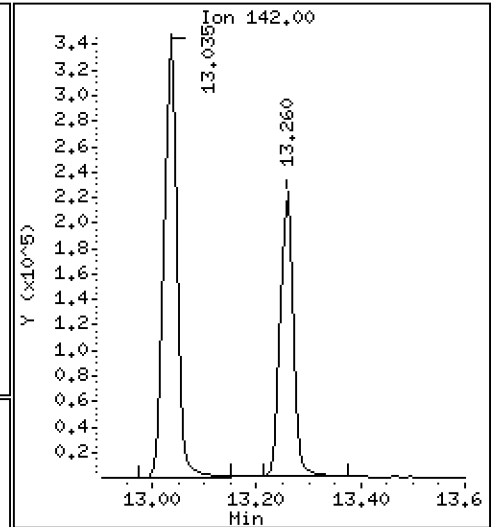
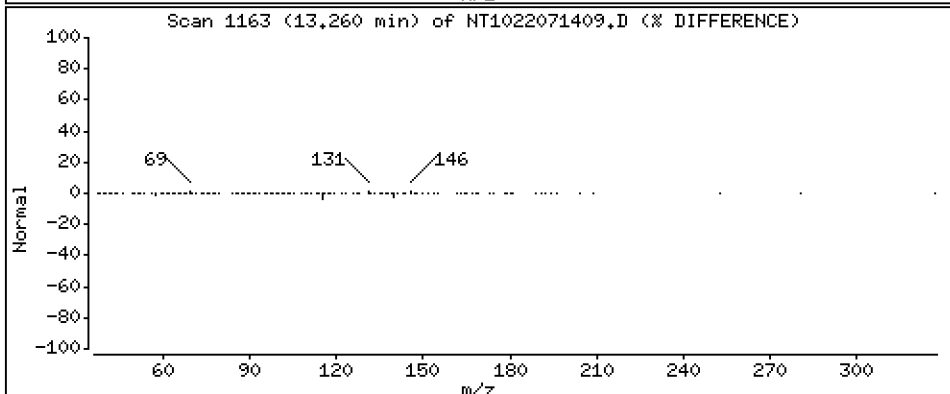
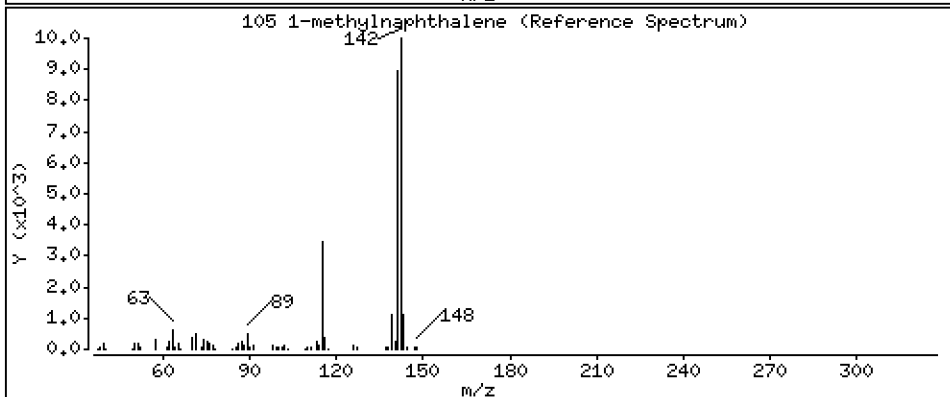
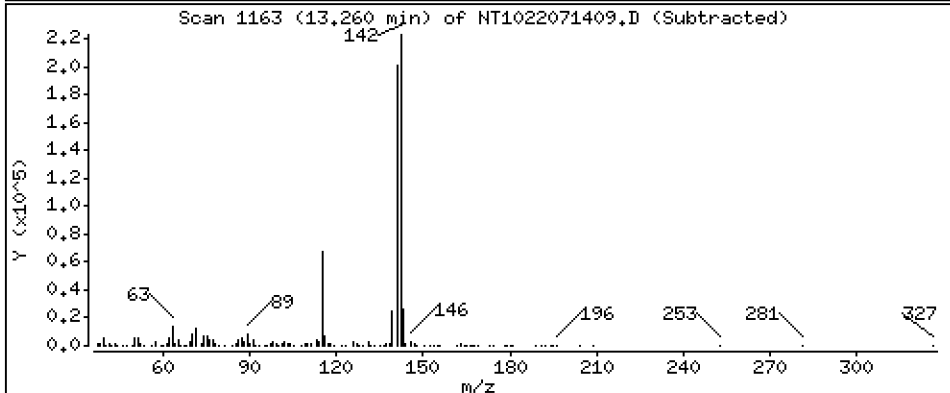
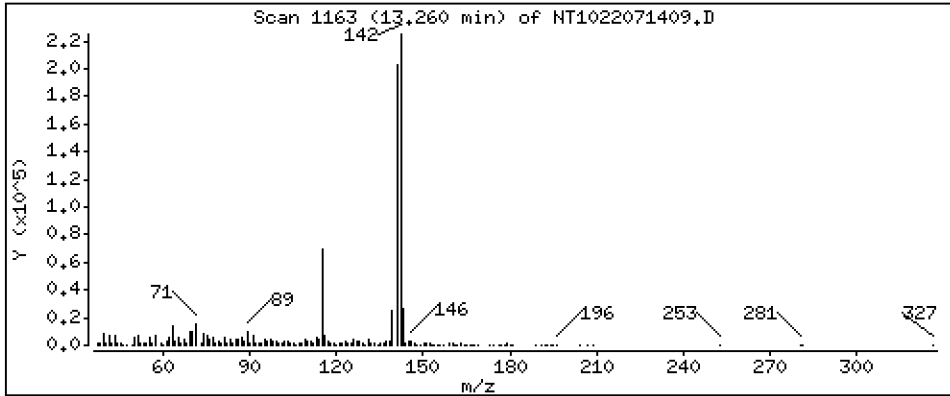
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 1,655 ug/mL



Date : 14-JUL-2022 18:55

Client ID:

Instrument: nt10.i

Sample Info: 2200019-03

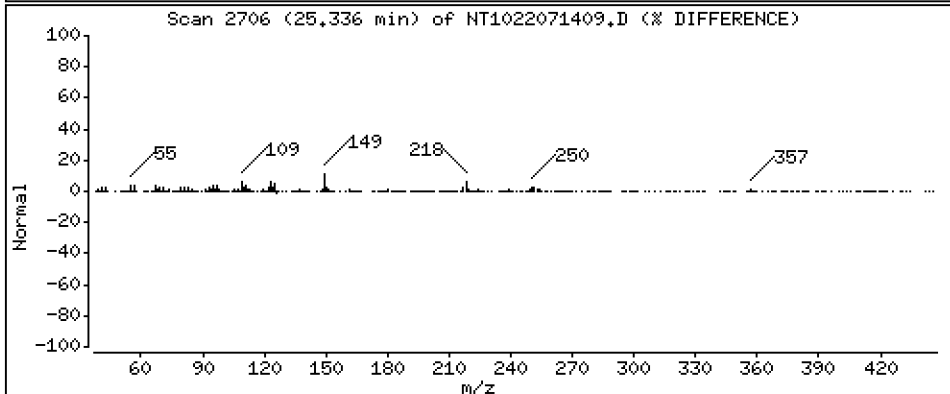
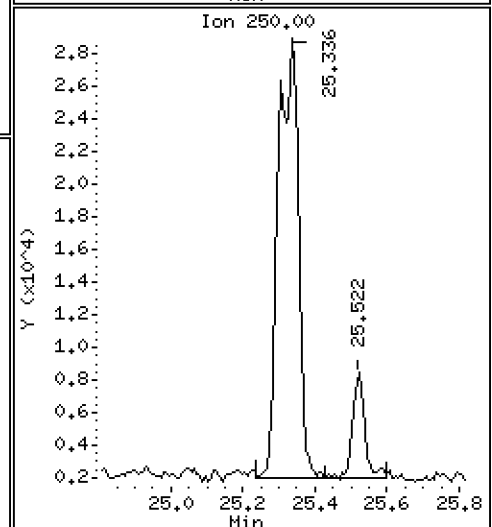
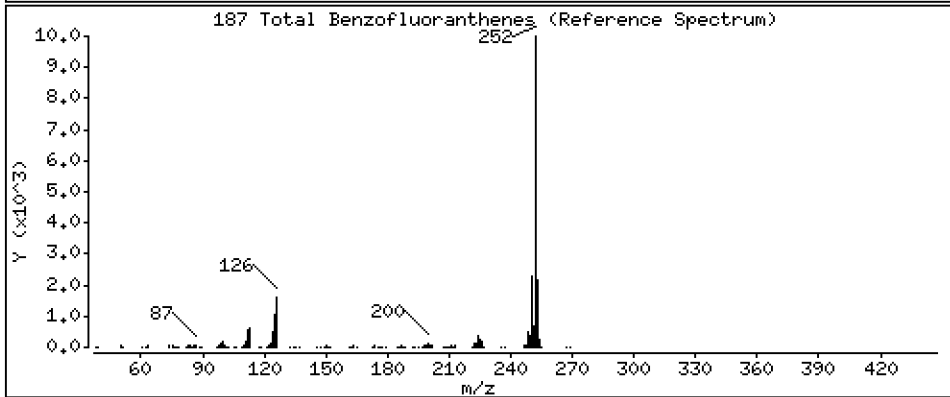
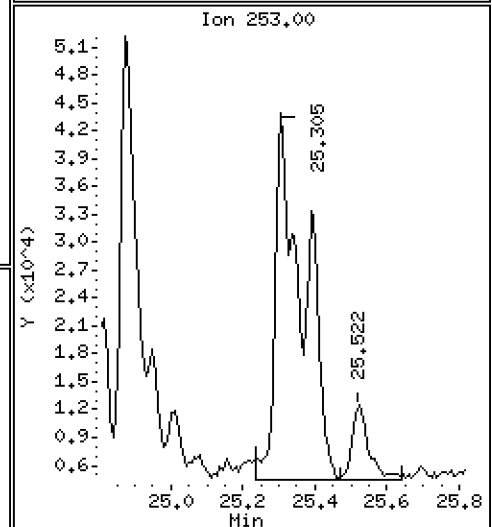
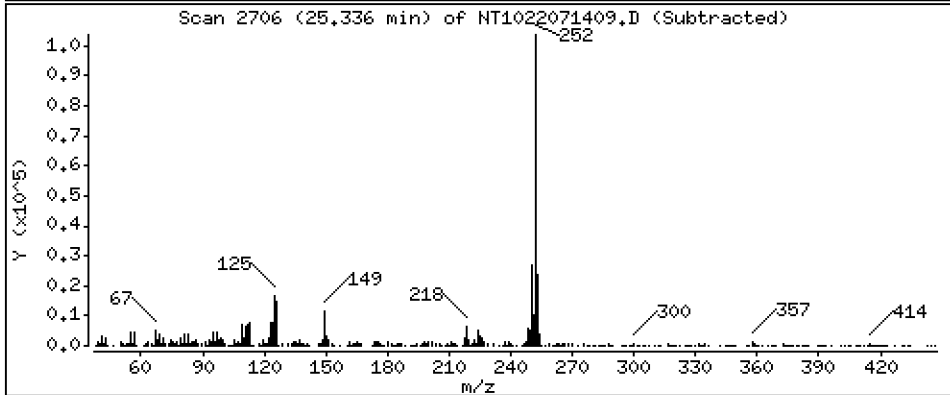
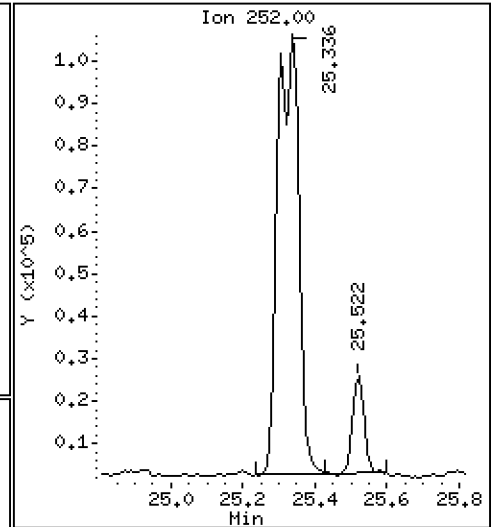
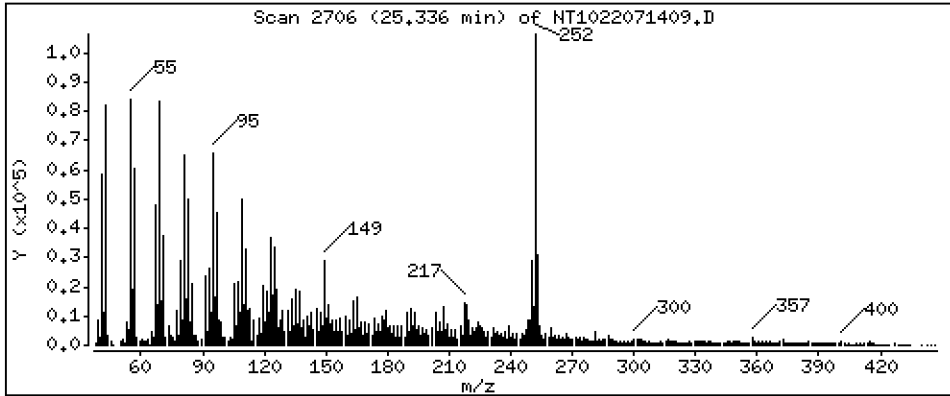
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 7,935 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071409.D
 Lab Smp Id: 22G0019-03
 Inj Date : 14-JUL-2022 18:55
 Operator : VTS
 Smp Info : 22G0019-03
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 14-Jul-2022 14:47 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.914	6.906	(0.759)	419835	4.84650	4.846
\$ 2 Phenol-d5	99		8.498	8.490	(0.933)	573092	4.45865	4.459
3 Phenol	94		8.521	8.513	(0.935)	64722	0.57786	0.5779
\$ 5 2-Chlorophenol-d4	132		8.760	8.753	(0.962)	567511	6.42947	6.429
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.101	(1.000)	237233	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.466	9.466	(1.039)	244188	4.48955	4.490
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		9.629	9.613	(1.057)	20579	0.29800	0.2980
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.916	9.885	(1.089)	38201	0.51763	0.5176
\$ 18 Nitrobenzene-d5	82		10.195	10.195	(0.879)	358455	3.68024	3.680
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		10.944	10.927	(0.944)	20572	0.27311	0.2731
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.596	11.589	(1.000)	915359	4.00000	
28 Naphthalene	128		11.642	11.627	(1.004)	12210937	52.1236	52.12
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		13.035	13.027	(1.124)	586301	2.51815	2.518
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.816	13.809	(0.908)	846900	5.78698	5.787
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152		14.900	14.900	(0.979)	960861	5.08278	5.083
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.217	15.210	(1.000)	323396	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.287	15.279	(1.005)	111223	1.18257	1.183
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.611	15.612	(1.026)	534520	3.57608	3.576
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149		16.176	16.176	(1.063)	23674	0.24334	0.2433
49 Fluorene	166		16.330	16.323	(1.073)	696726	3.90101	3.901
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.878	16.870	(1.109)	89463	6.08358	6.084
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.284	18.269	(1.000)	350228	4.00000	
60 Phenanthrene	178		18.339	18.316	(1.003)	4444537	48.3041	48.30
61 Anthracene	178		18.424	18.416	(1.008)	650173	6.63083	6.631
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.753	20.722	(0.887)	3367878	23.2744	23.27
65 Pyrene	202		21.186	21.147	(0.906)	4142546	27.5355	27.54
\$ 66 Terphenyl-d14	244		21.449	21.434	(0.917)	214470	3.83039	3.830
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.354	23.331	(0.999)	232259	3.41613	3.416
* 69 Chrysene-d12	240		23.385	23.362	(1.000)	160448	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.431	23.408	(1.002)	244277	5.13552	5.136
72 bis(2-Ethylhexyl)phthalate	149							
* 134 Di-n-octylphthalate-d4	153		24.438	24.407	(1.000)	307715	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.305	25.266	(0.969)	208462	3.60462	3.605
75 Benzo(k)fluoranthene	252		25.336	25.313	(0.970)	257057	4.62248	4.622 (M)
76 Benzo(a)pyrene	252		25.994	25.948	(0.996)	282894	5.97677	5.977
* 77 Perylene-d12	264		26.110	26.064	(1.000)	127697	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.899	28.845	(1.107)	104864	2.07499	2.075
79 Dibenzo(a,h)anthracene	278		28.899	28.853	(1.107)	11519	0.29774	0.2977 (M)
80 Benzo(g,h,i)perylene	276		29.746	29.661	(1.139)	165507	4.09693	4.097
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.259	13.252	(1.143)	378675	1.65544	1.655
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252	25.336	25.313	(0.970)	427861	7.93483	7.935	
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.						

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071409.D Calibration Time: 14:12
 Lab Smp Id: 22G0019-03
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	237233	21.14
27 Naphthalene-d8	626038	313019	1252076	915359	46.21
42 Acenaphthene-d10	366612	183306	733224	323396	-11.79
59 Phenanthrene-d10	635137	317569	1270274	350228	-44.86
69 Chrysene-d12	270778	135389	541556	160448	-40.75
134 Di-n-octylphthala	507031	253516	1014062	307715	-39.31
77 Perylene-d12	170107	85054	340214	127697	-24.93

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.11	0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.07
42 Acenaphthene-d10	15.21	14.71	15.71	15.22	0.05
59 Phenanthrene-d10	18.27	17.77	18.77	18.28	0.08
69 Chrysene-d12	23.36	22.86	23.86	23.39	0.10
134 Di-n-octylphthala	24.41	23.91	24.91	24.44	0.13
77 Perylene-d12	26.06	25.56	26.56	26.11	0.18

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

REVIEW SUMMARY FOR FILE - NT1022071409.D

Lab ID: 22G0019-03
nt10.i, ABN.m, 14-JUL-2022 18:55

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE			

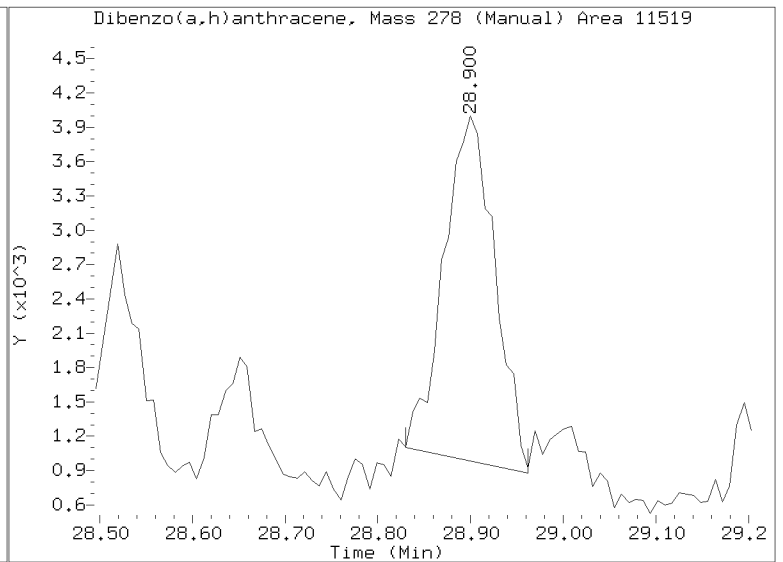
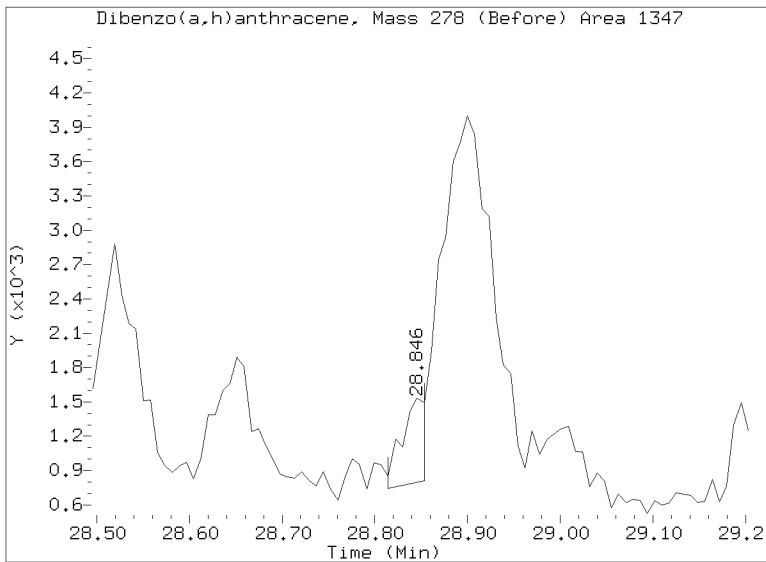
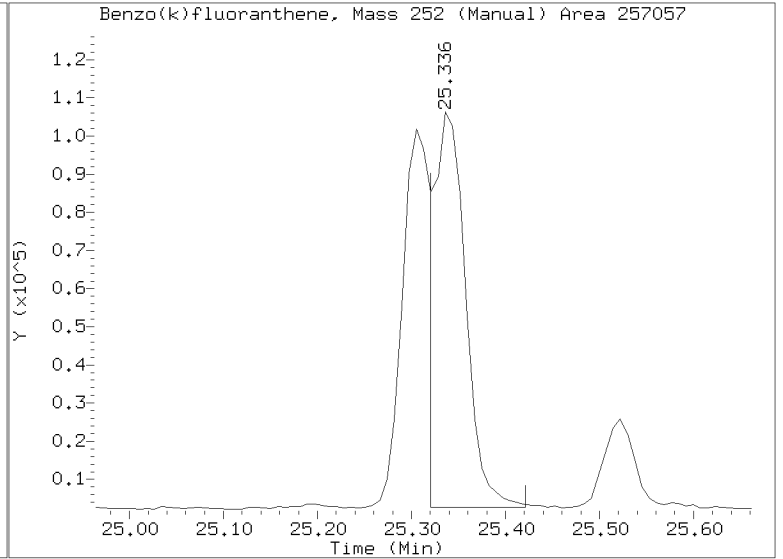
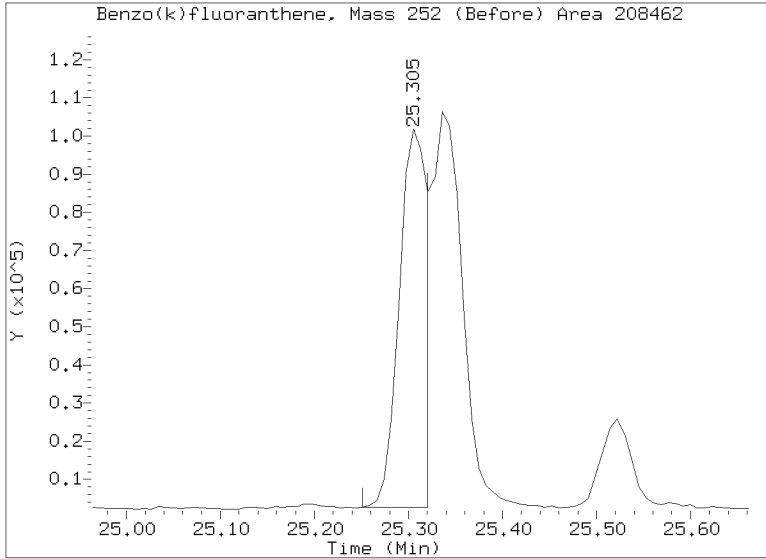
RRT check based on Ccal File: NT1022071402.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071409.D
Injection Date: 14-JUL-2022 18:55
Lab ID:22G0019-03 Client ID:
Report Date: 07/19/2022 12:56





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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-03RE1 A

SDG: 22G0019

Sampled: 06/27/22 12:30

Prepared: 07/07/22 10:01

File ID: NT1022071510.D

% Solids: 26.73

Preparation: EPA 3546 (Microwave)

Analyzed: 07/15/22 18:03

Batch: BKG0069

Sequence: SKG0154

Initial/Final: 20 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	10	11100	D	79.3	374
91-57-6	2-Methylnaphthalene	10	514	D	84.4	374
83-32-9	Acenaphthene	10	215	J, D	97.6	374
87-86-5	Pentachlorophenol	10	585	U	585	1870
85-01-8	Phenanthrene	10	6770	D	163	374
206-44-0	Fluoranthene	10	8380	Q, D	114	374
56-55-3	Benzo(a)anthracene	10	706	D	111	374
218-01-9	Chrysene	10	959	Q, D	113	374
205-99-2	Benzo(b)fluoranthene	10	626	D	131	374
207-08-9	Benzo(k)fluoranthene	10	665	D	93.7	374
50-32-8	Benzo(a)pyrene	10	929	D	79.1	374
193-39-5	Indeno(1,2,3-cd)pyrene	10	569	D	274	374
53-70-3	Dibenzo(a,h)anthracene	10	322	U	322	374
90-12-0	1-Methylnaphthalene	10	371	J, D	98.4	374

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	1402.9	1090	77.5	27 - 120	
Phenol-d5	1402.9	917	65.4	29 - 120	
2-Chlorophenol-d4	1402.9	1290	91.6	31 - 120	
1,2-Dichlorobenzene-d4	935.28	828	88.5	32 - 120	
Nitrobenzene-d5	935.28	809	86.5	30 - 120	
2-Fluorobiphenyl	935.28	1050	112	35 - 120	
2,4,6-Tribromophenol	1402.9	1170	83.7	24 - 134	
p-Terphenyl-d14	935.28	1140	122	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220715.16\NT1022071510.D

Date: 15-JUL-2022 18:03

Client ID:

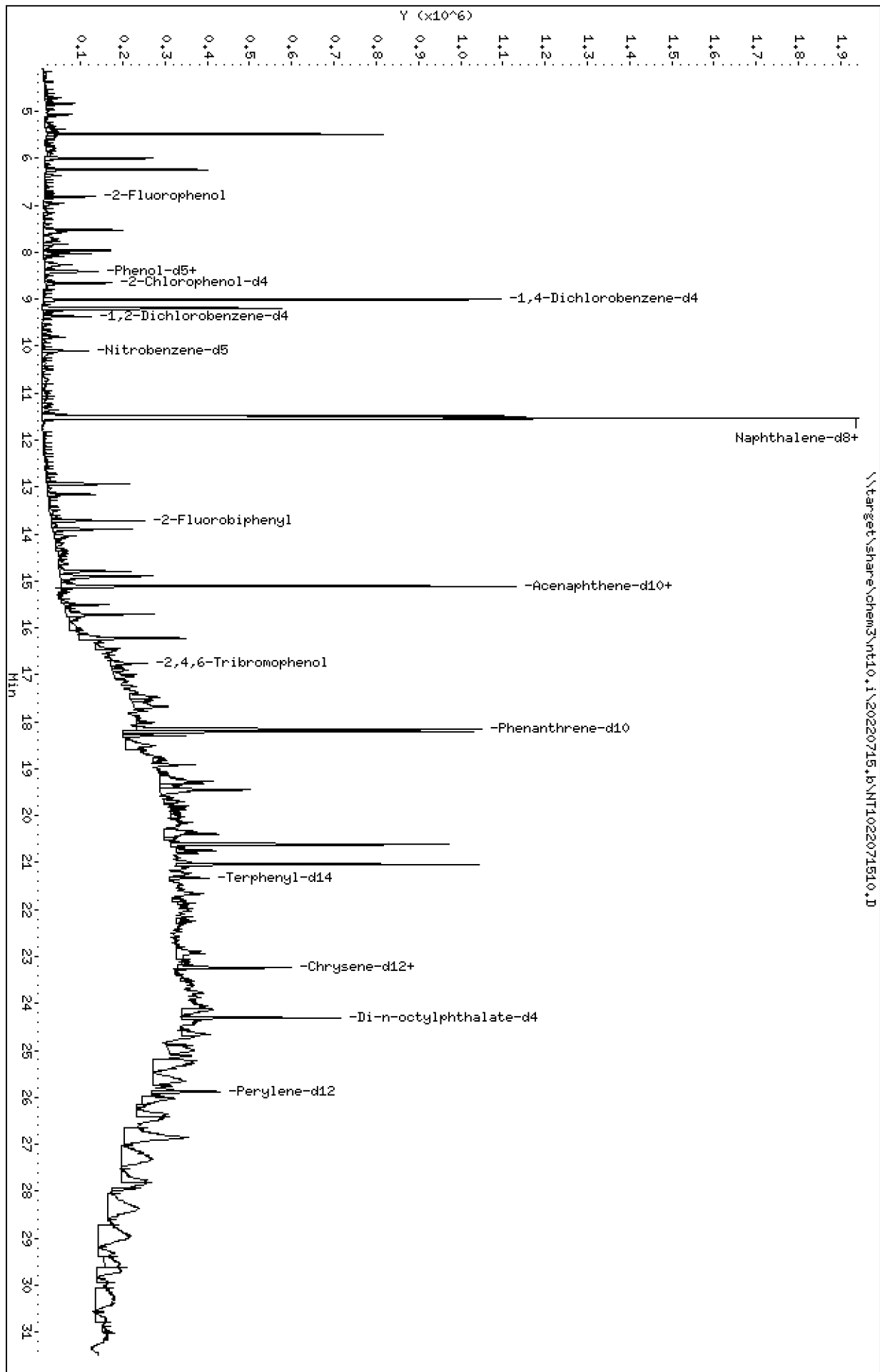
Sample Info: 22C0019-03REL.10

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

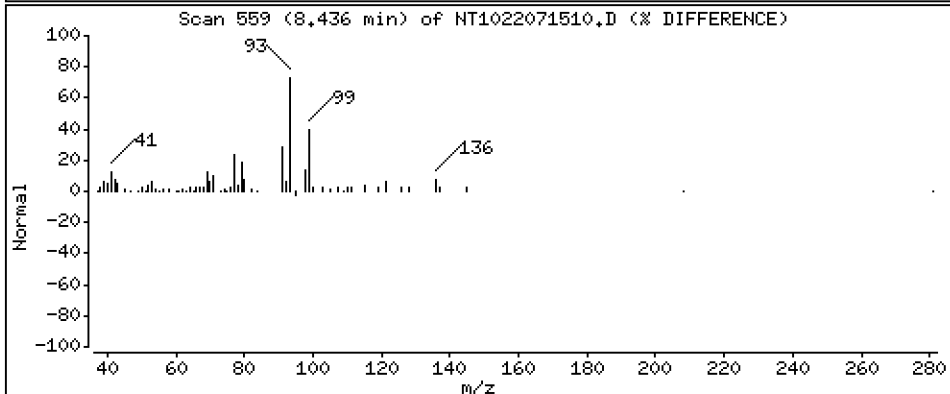
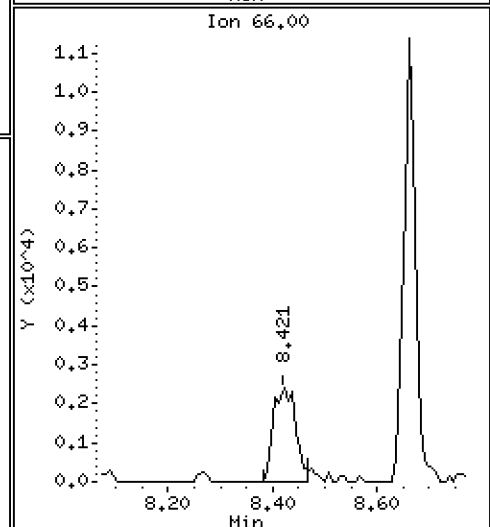
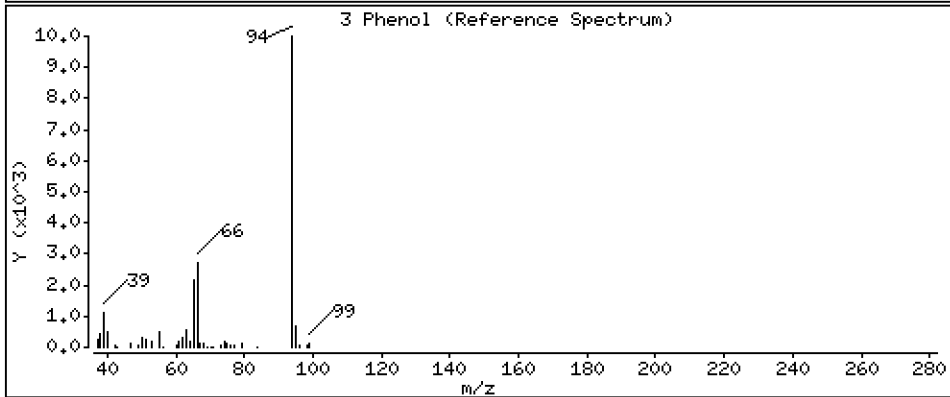
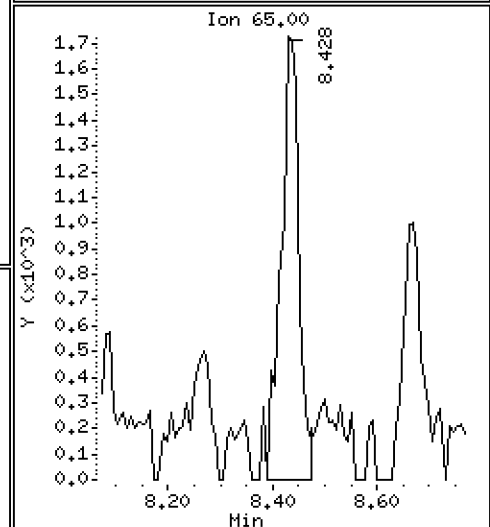
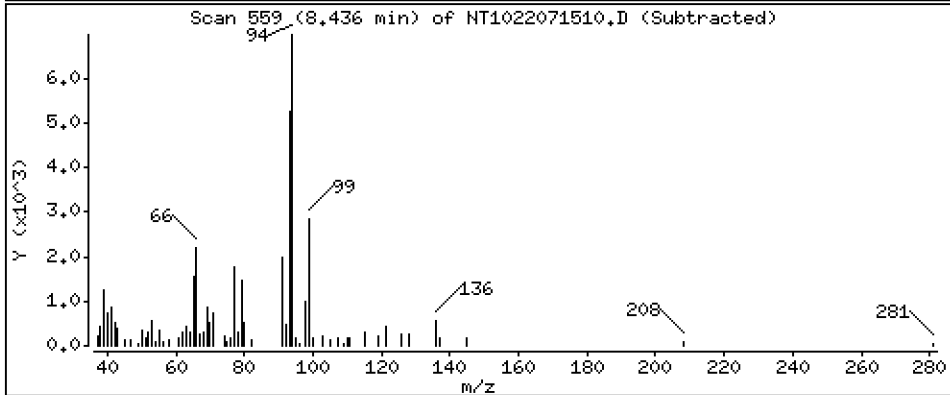
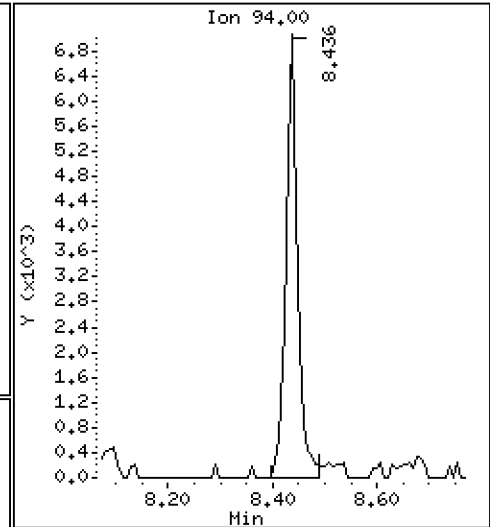
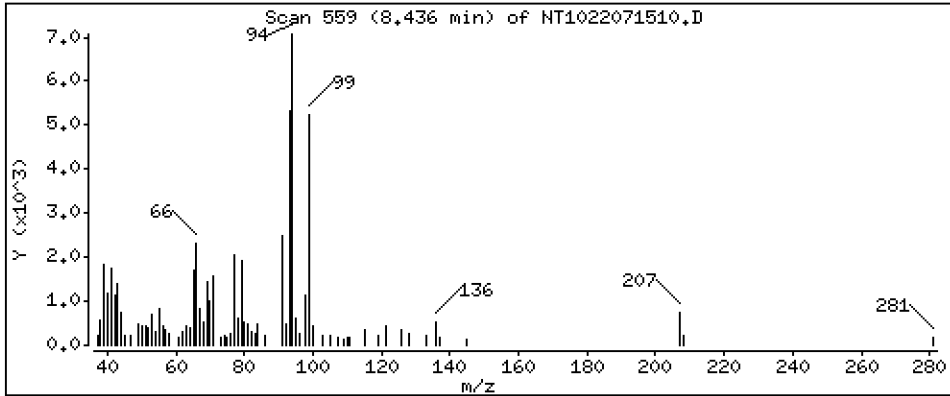
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.7500 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

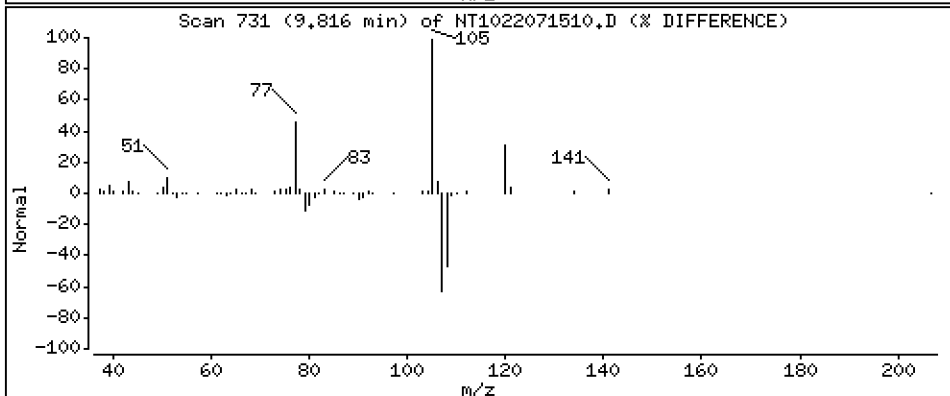
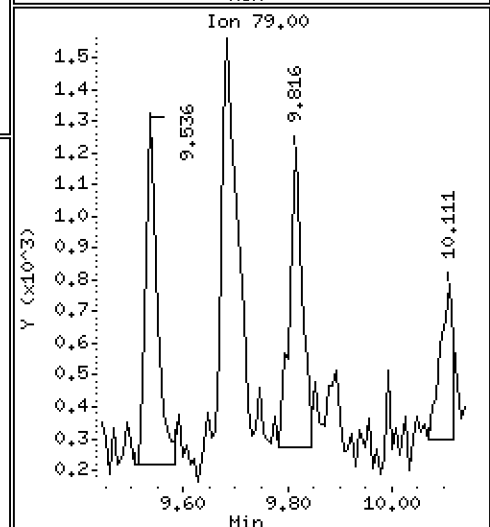
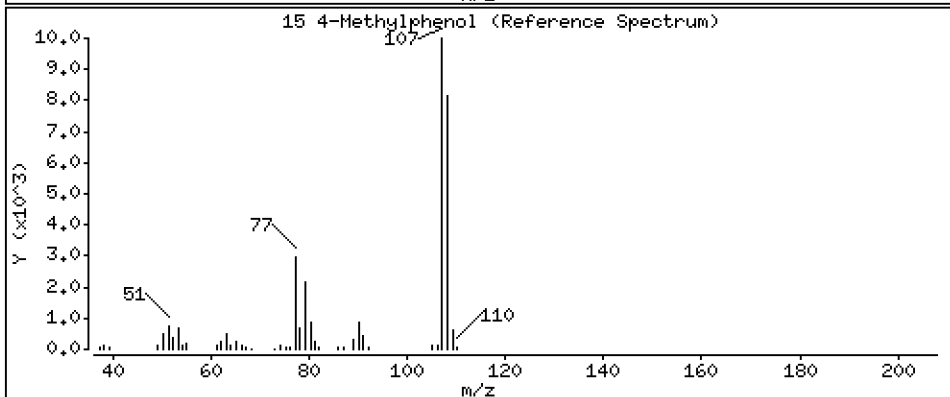
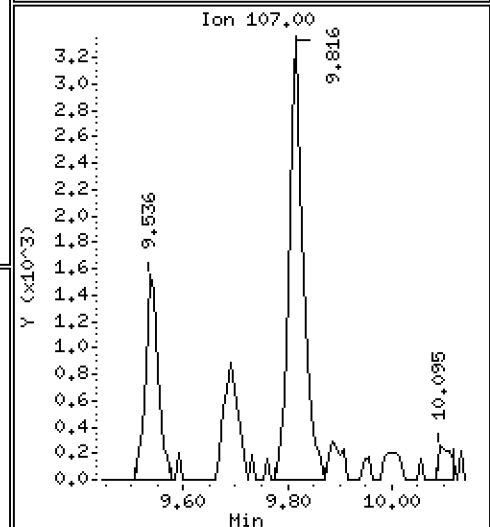
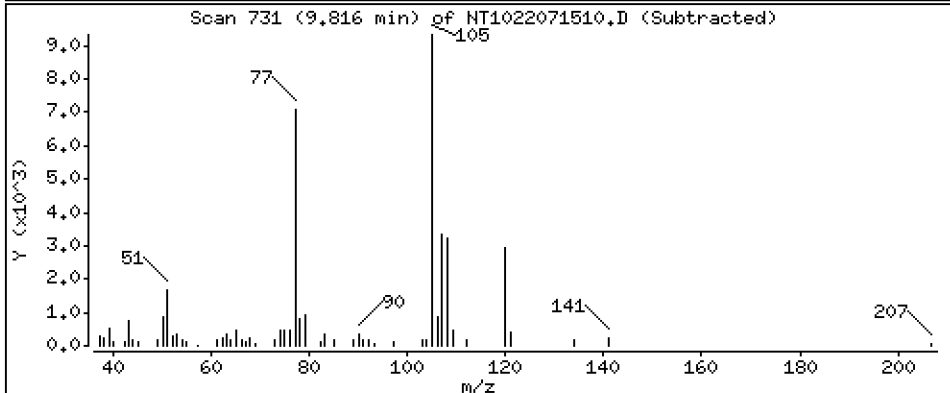
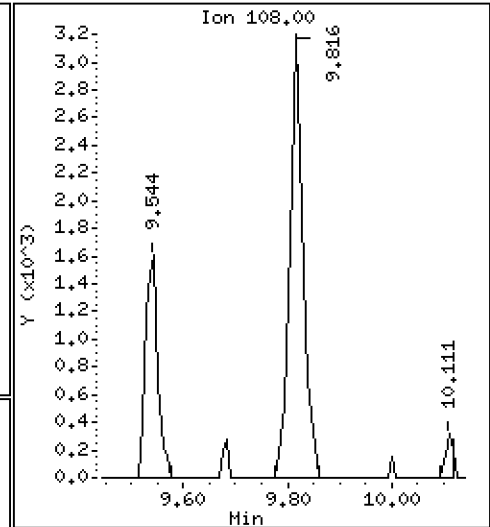
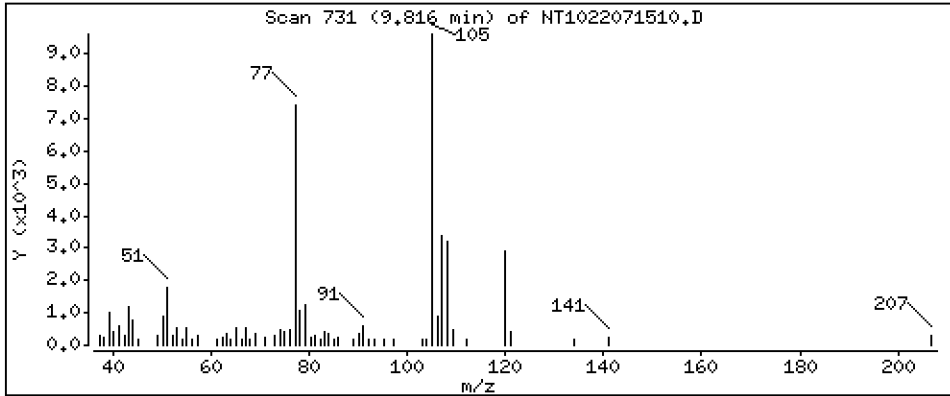
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,6018 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

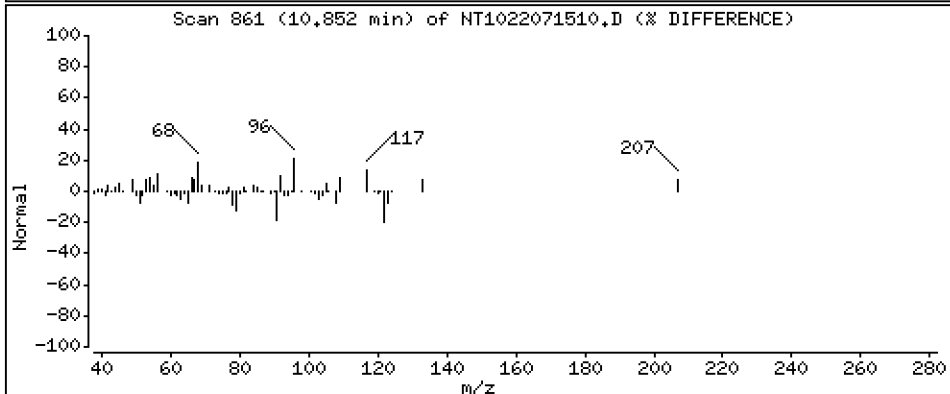
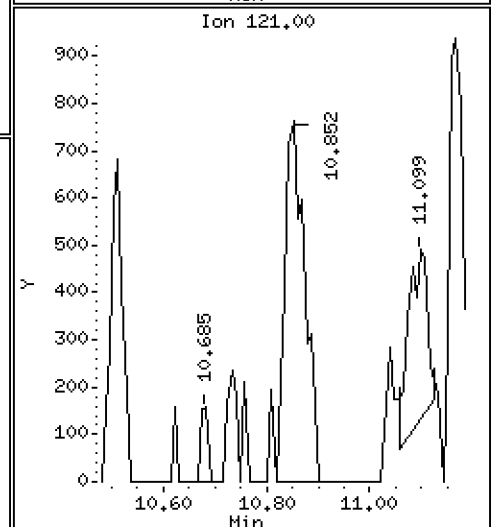
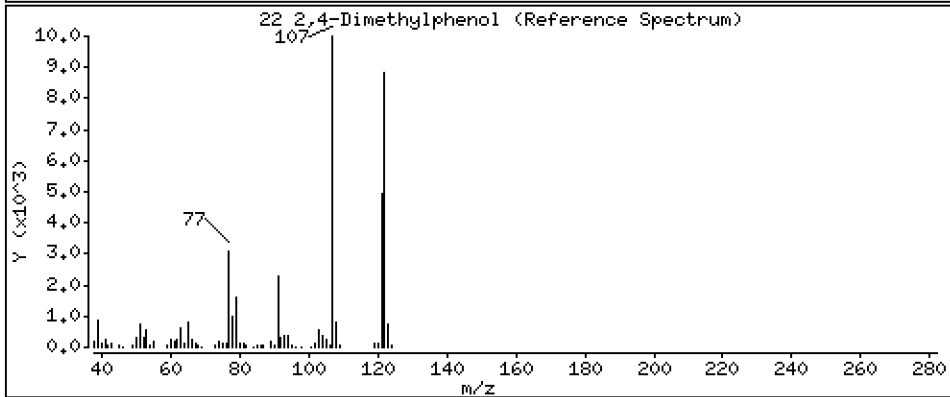
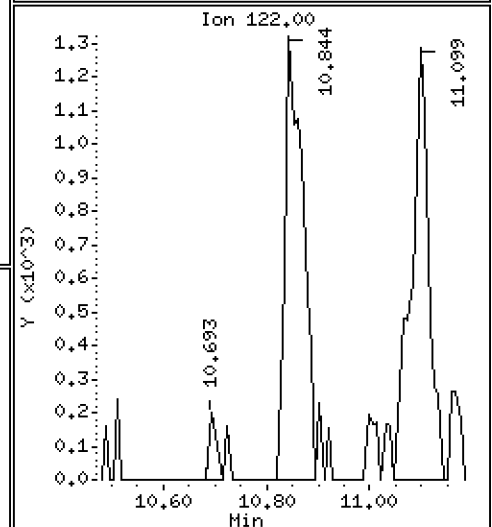
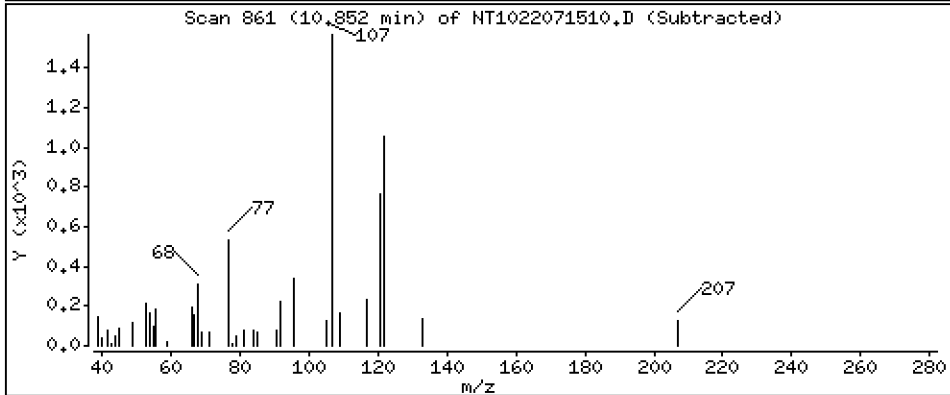
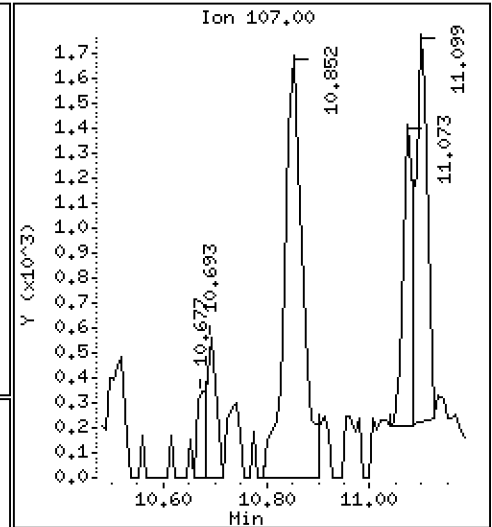
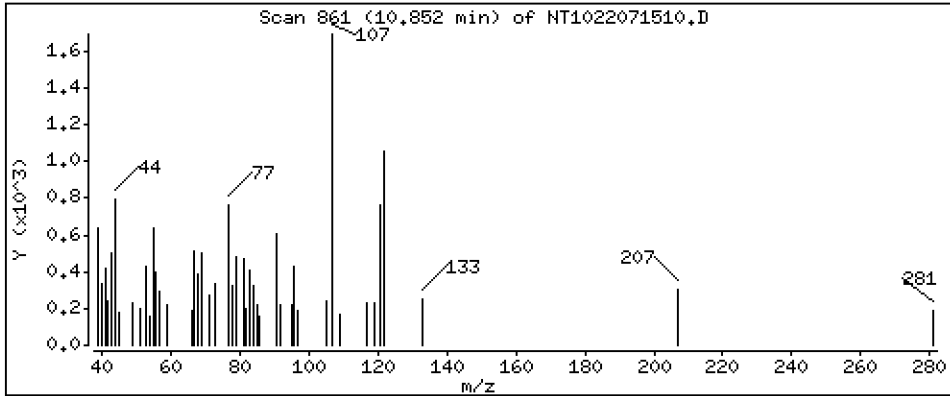
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.5021 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 2200019-03RE1,10

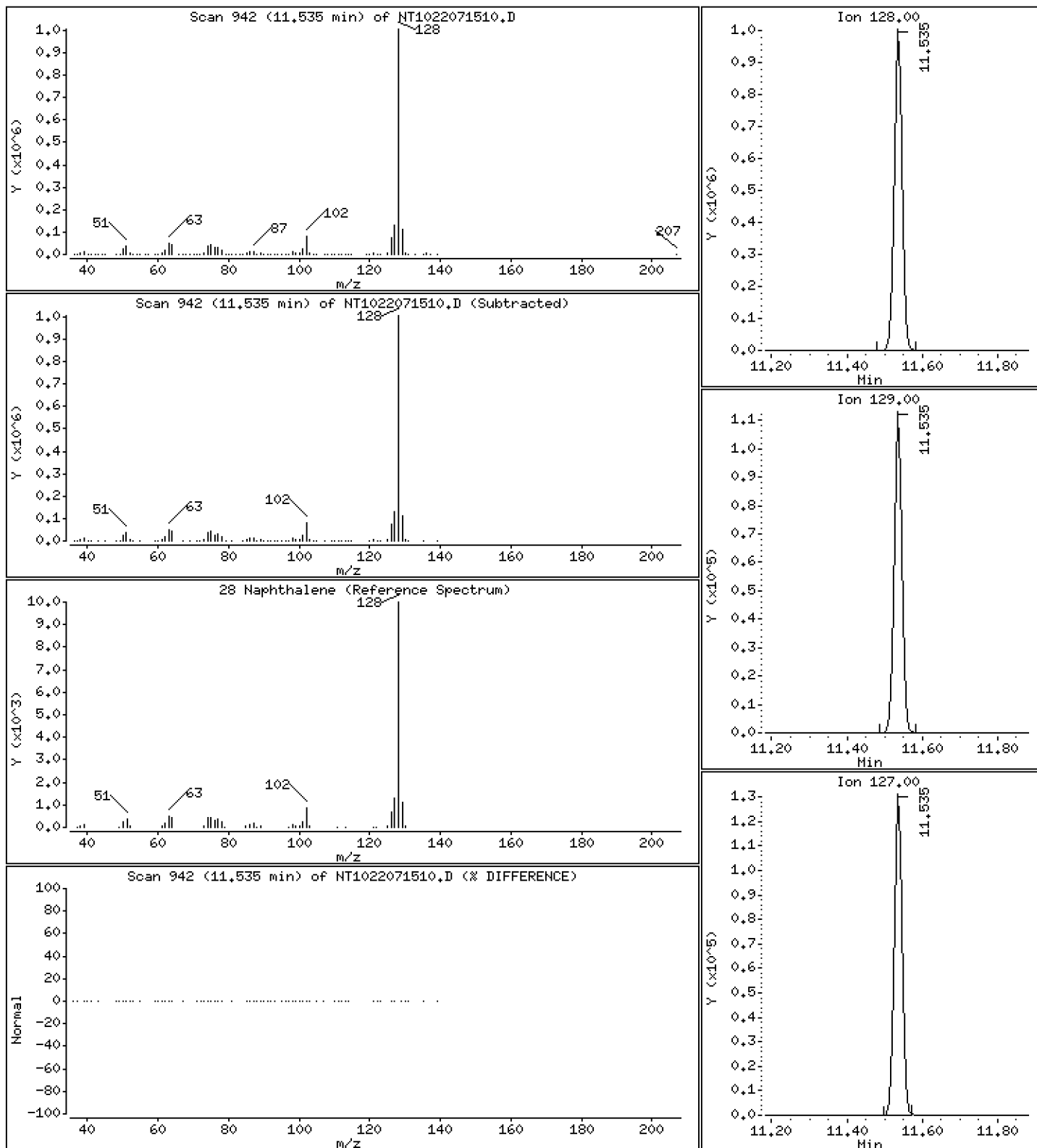
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 59,59 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

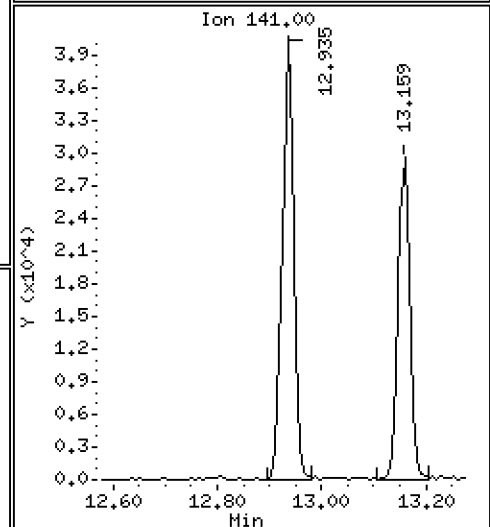
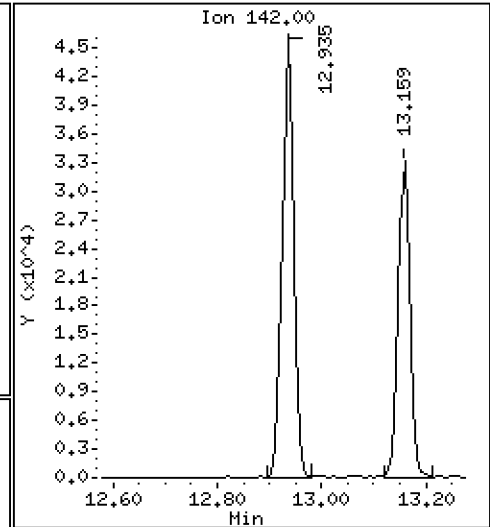
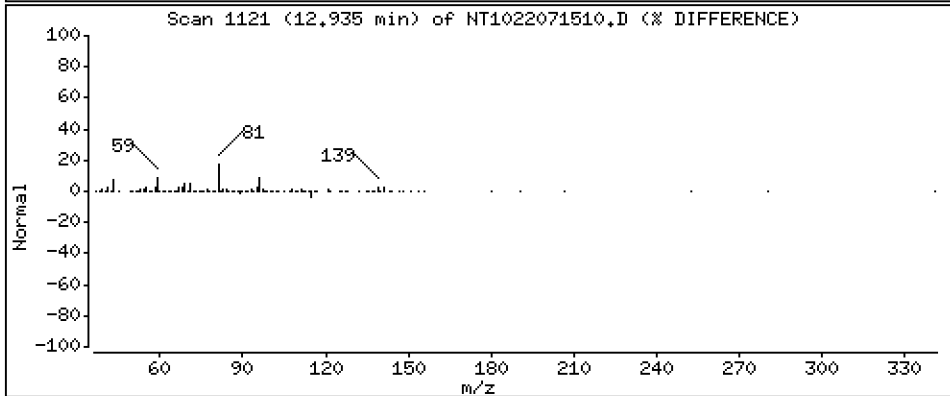
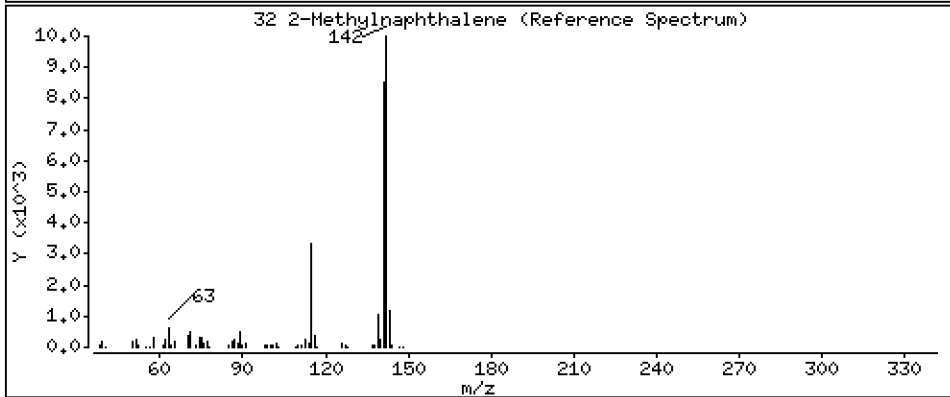
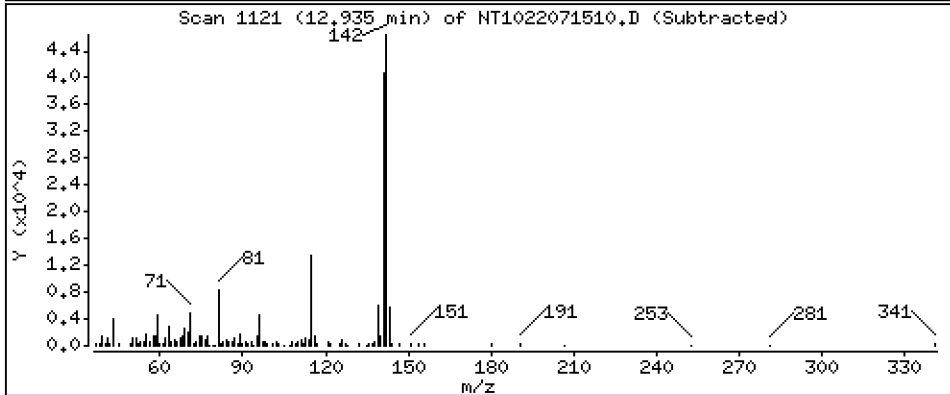
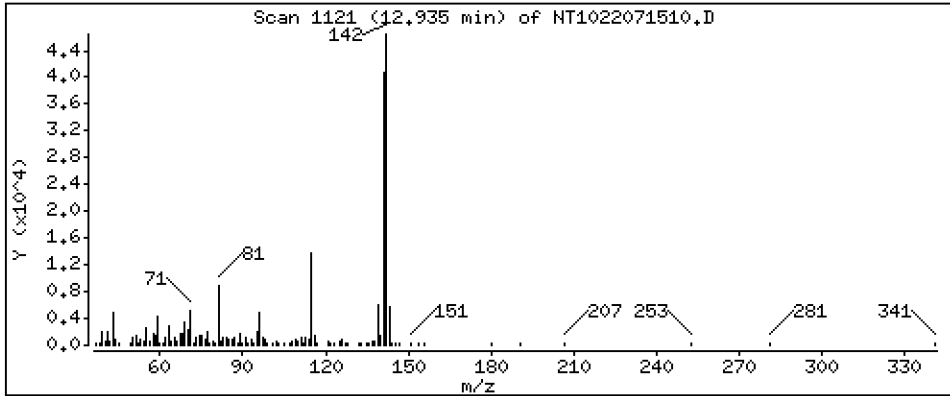
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 2,747 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

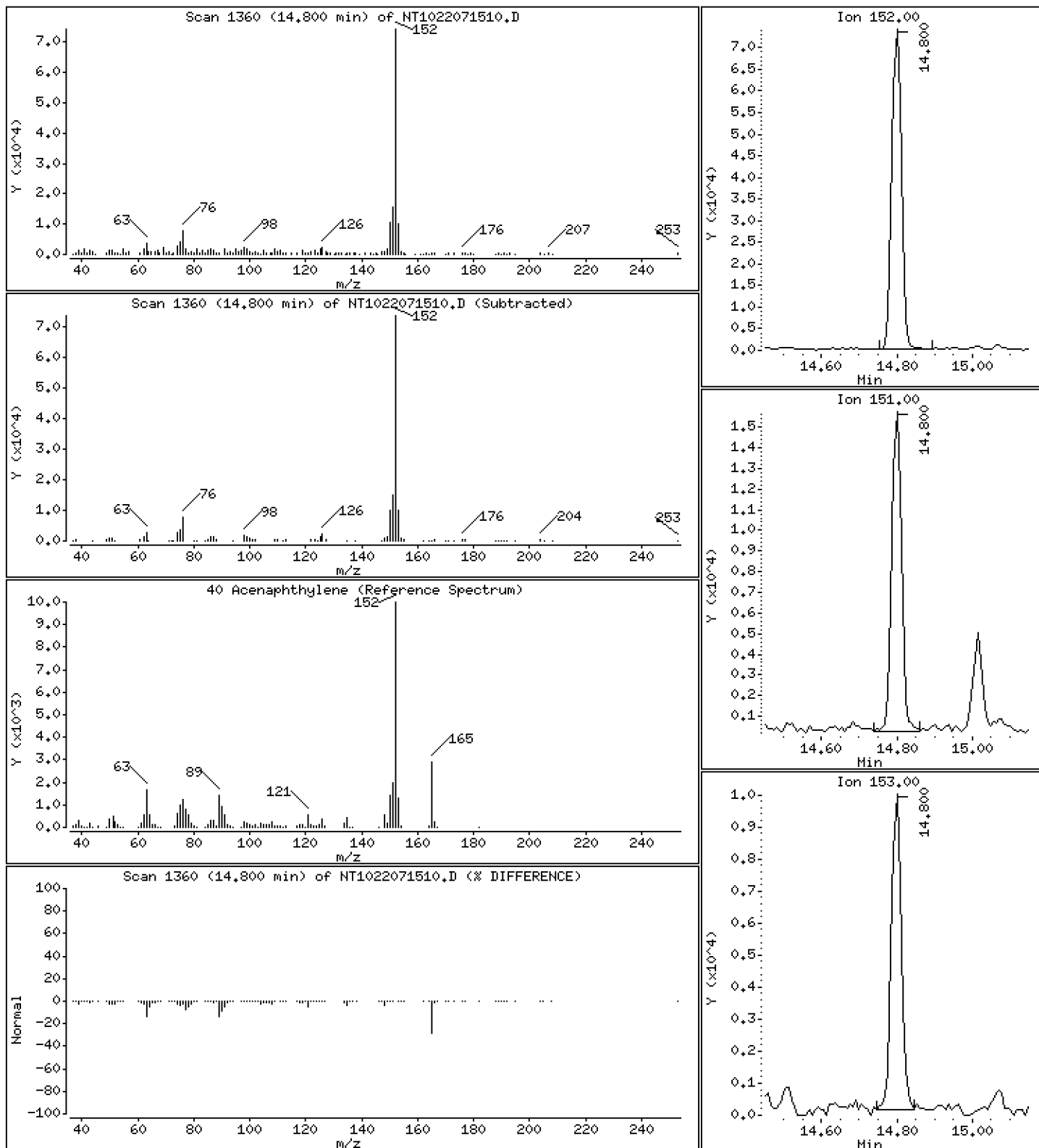
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,782 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

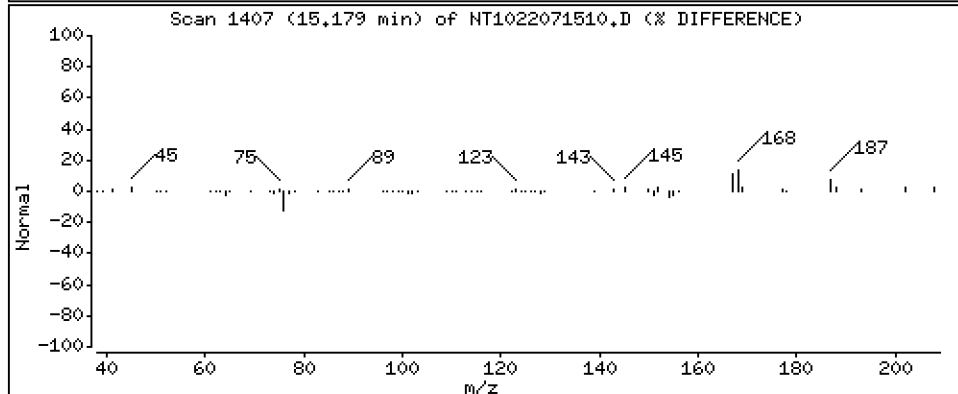
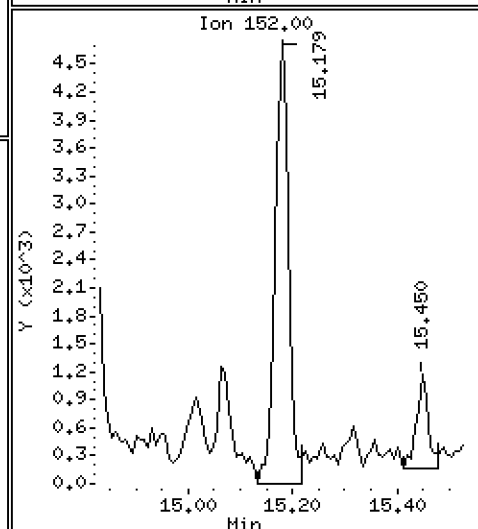
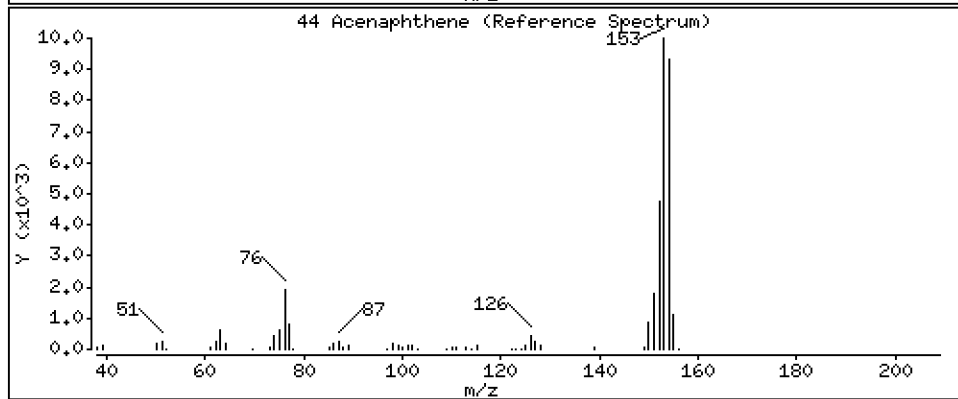
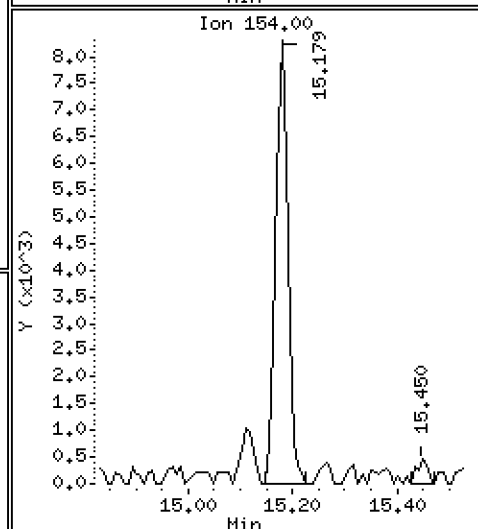
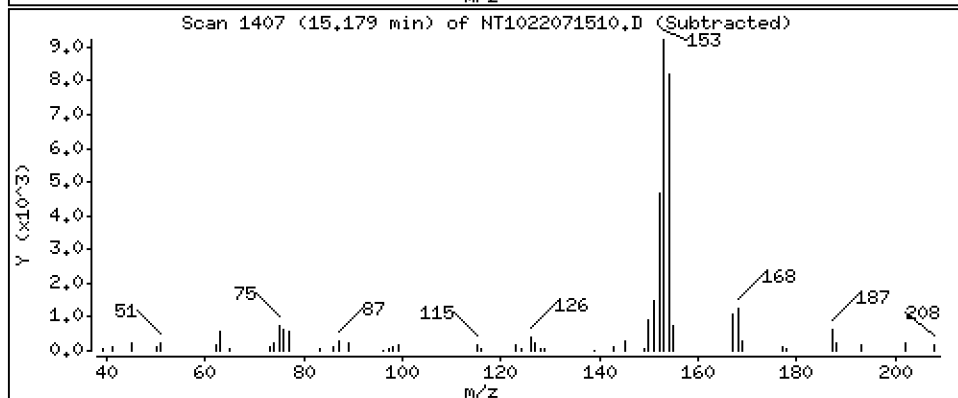
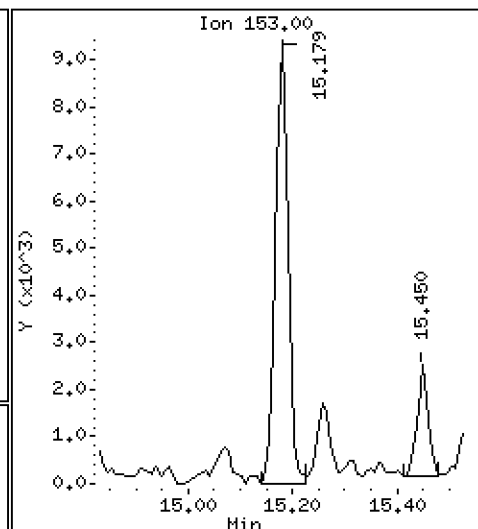
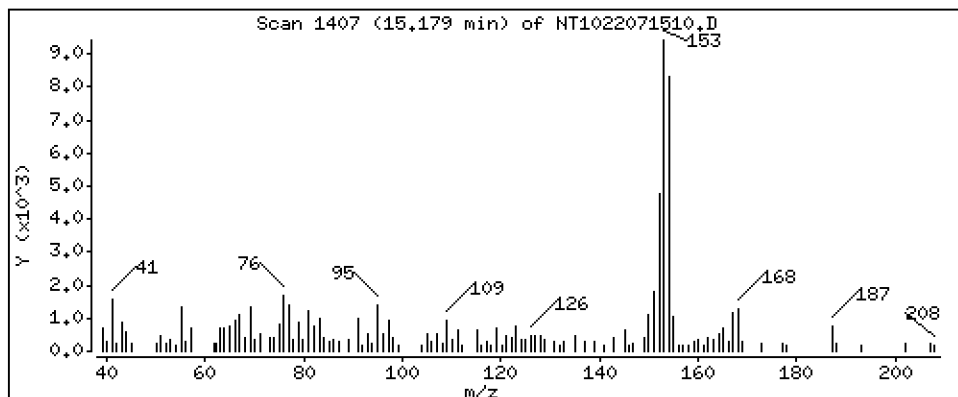
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 1,148 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

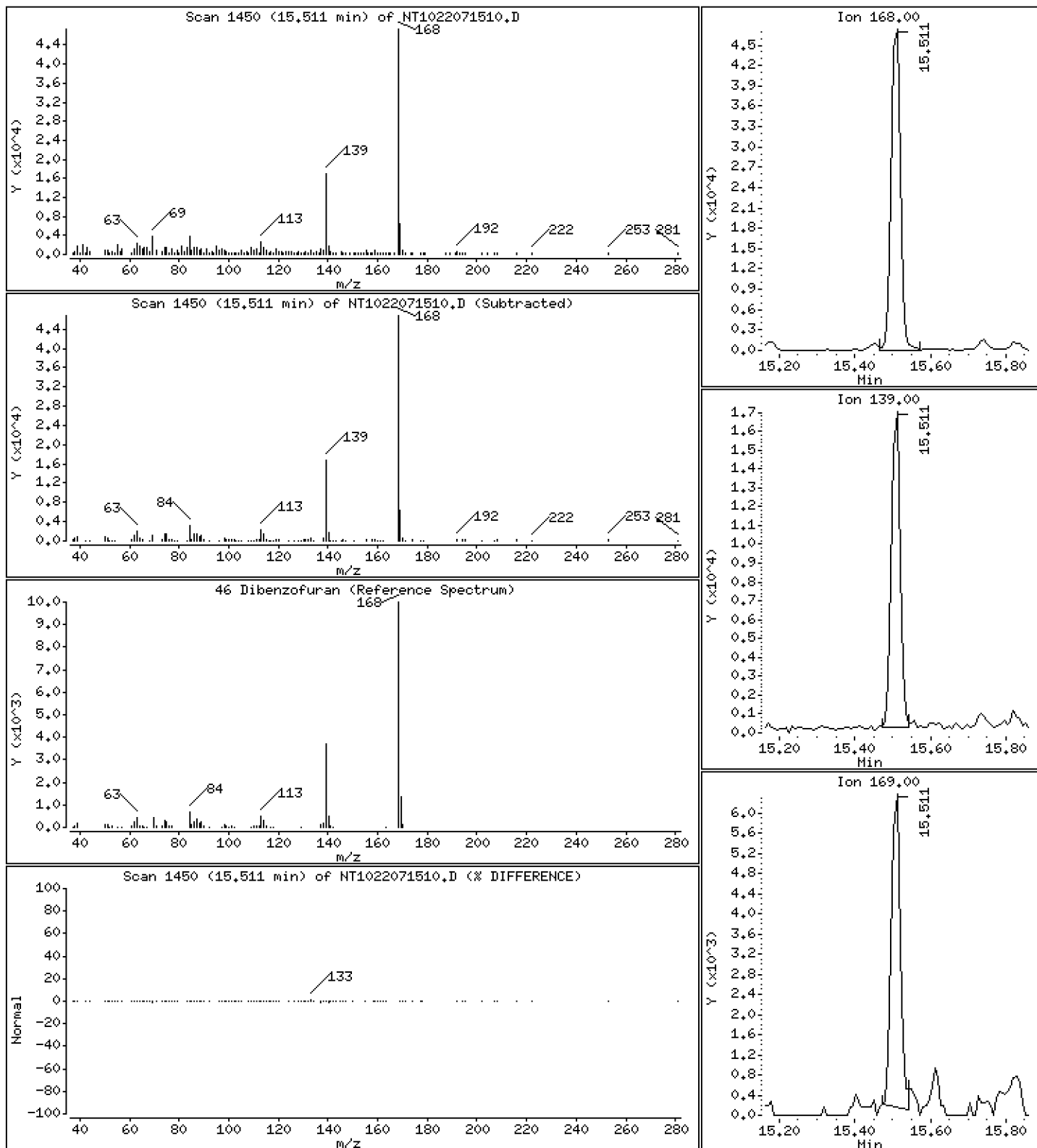
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 3,666 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

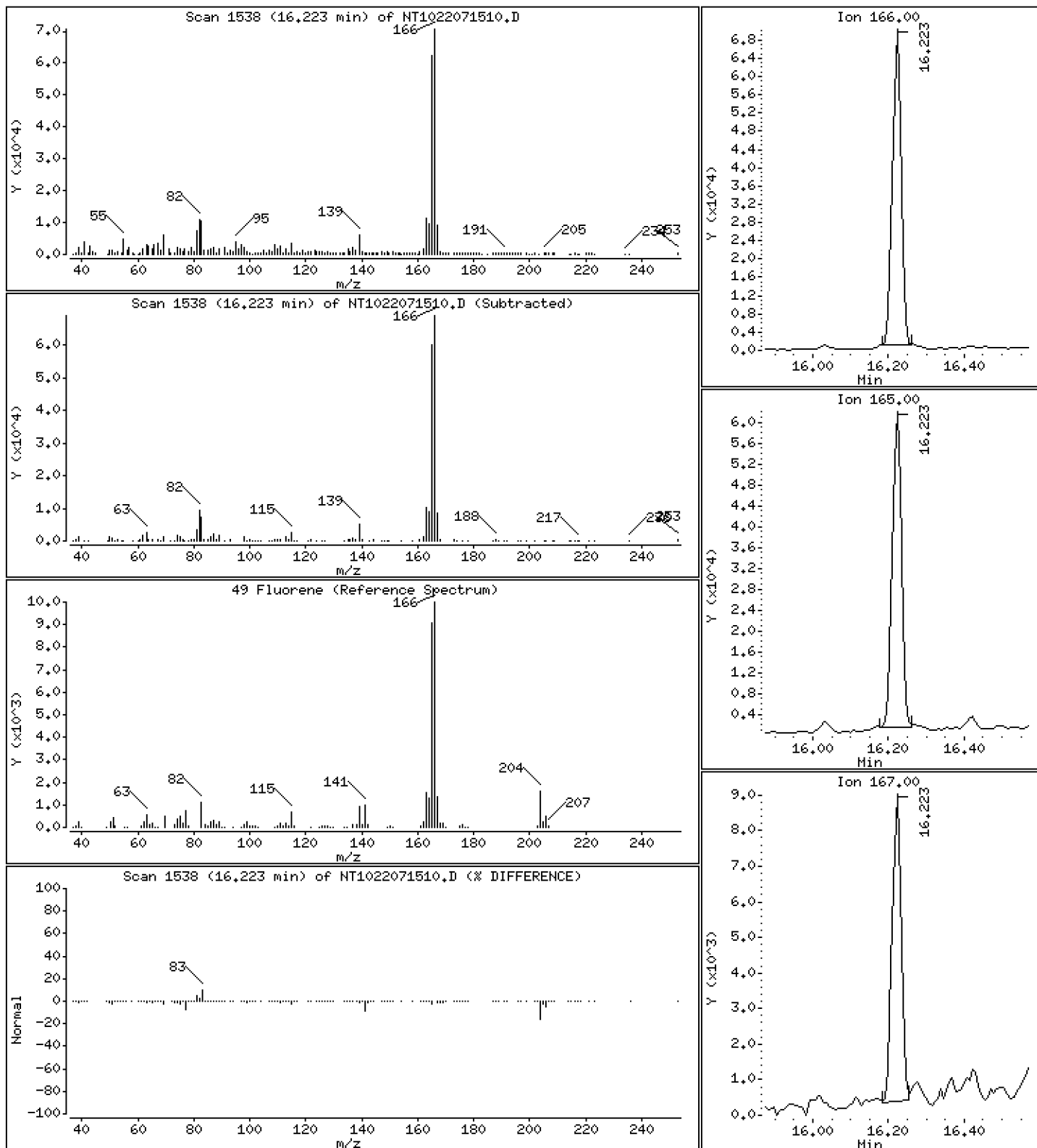
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,332 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 2200019-03RE1,10

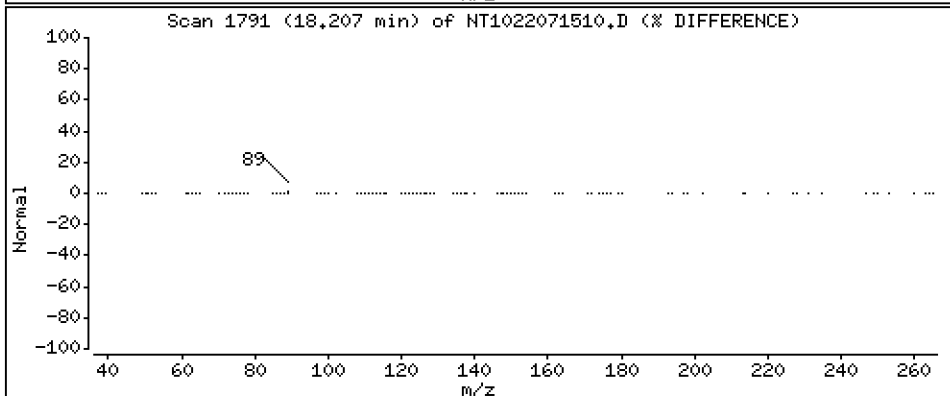
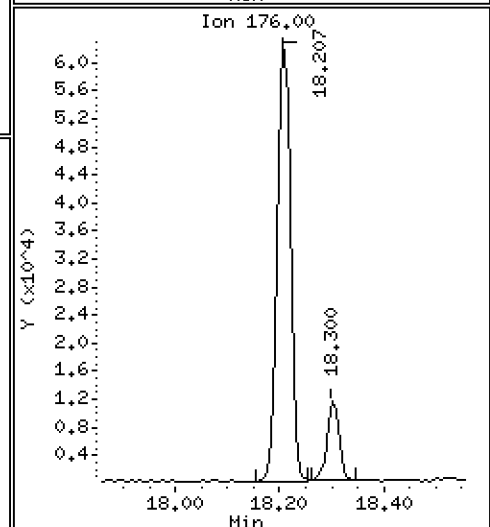
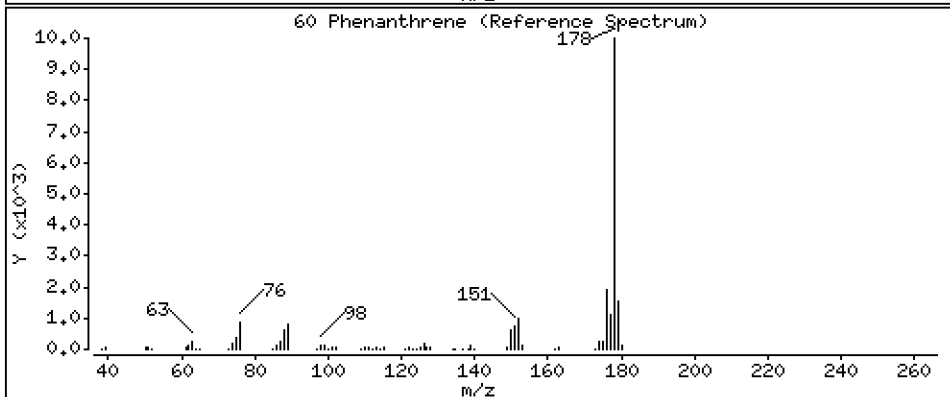
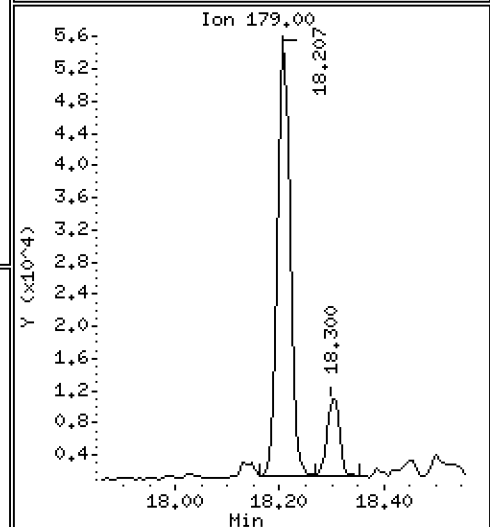
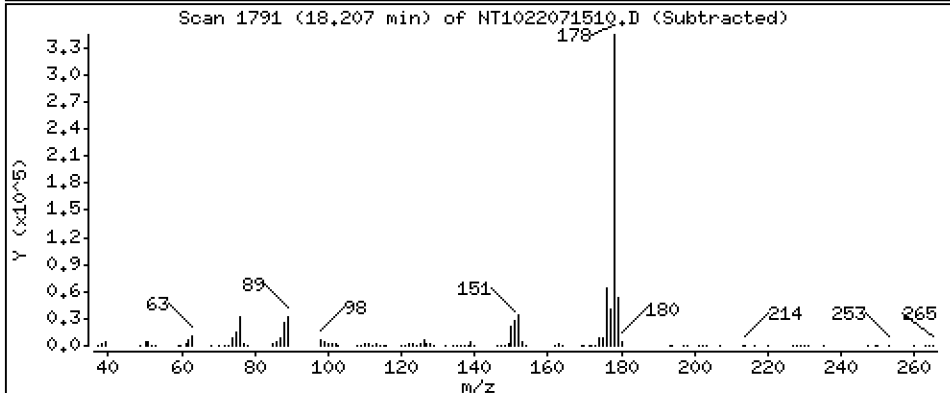
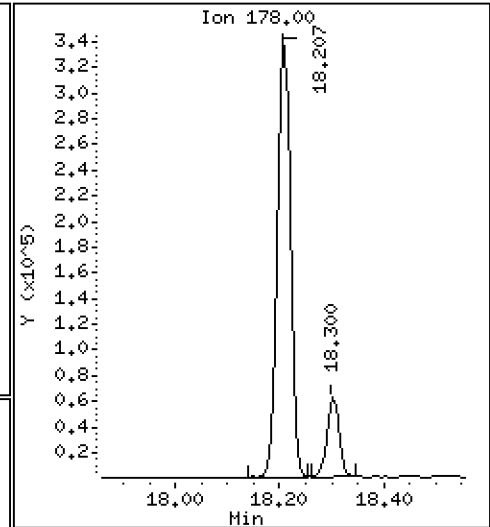
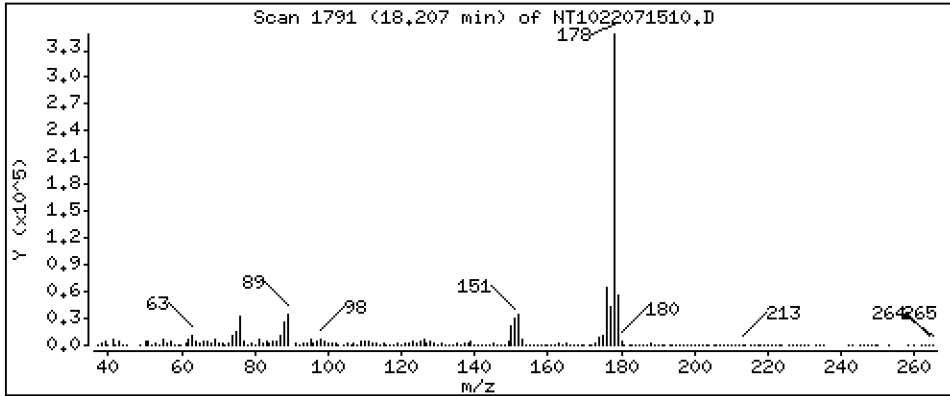
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 36,19 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

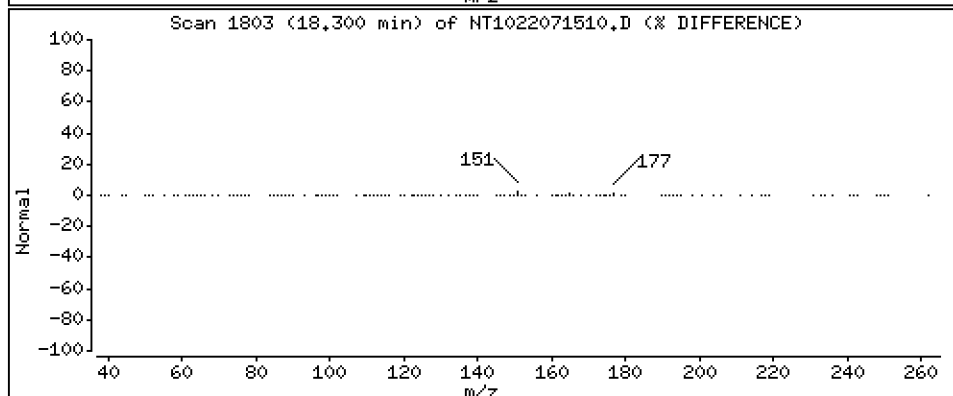
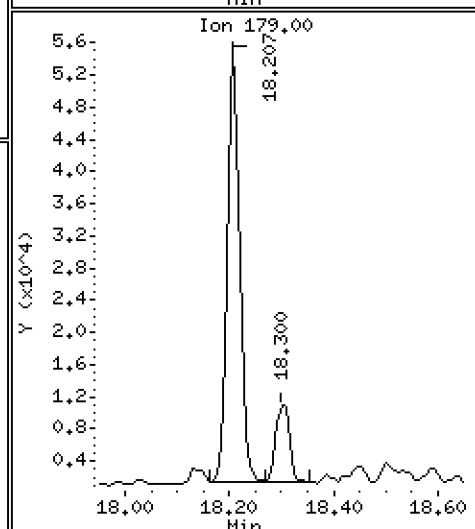
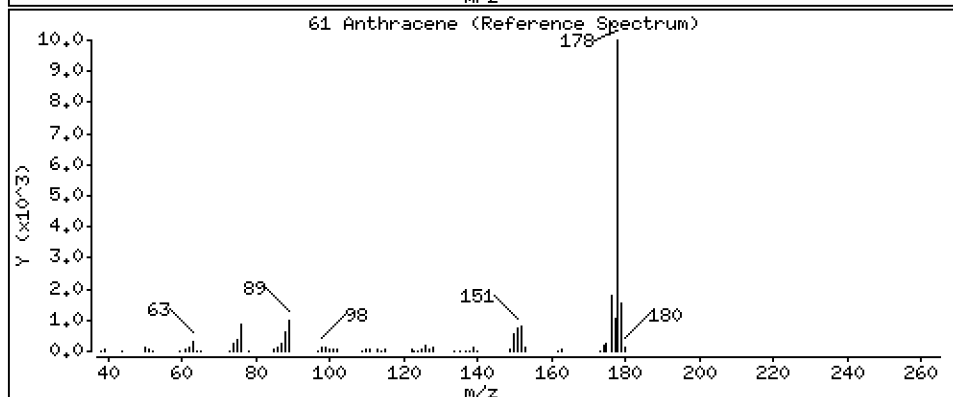
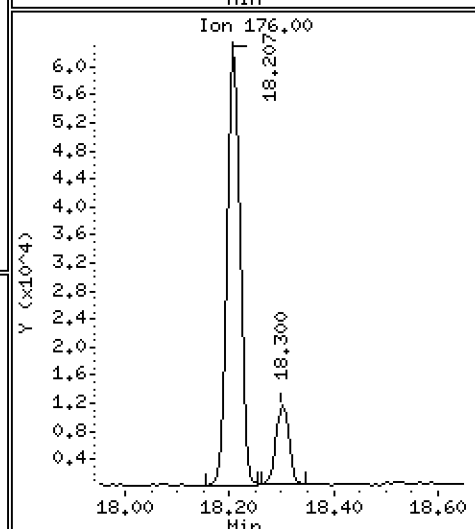
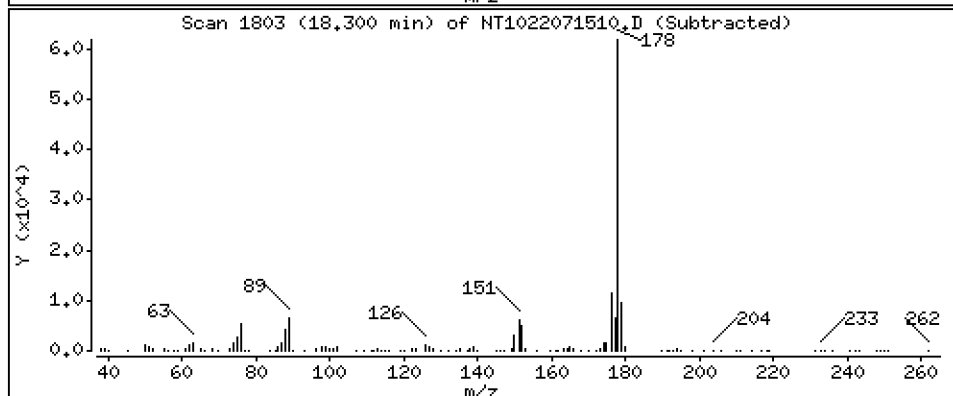
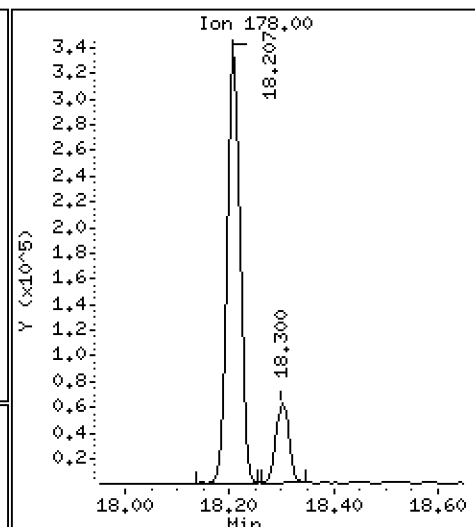
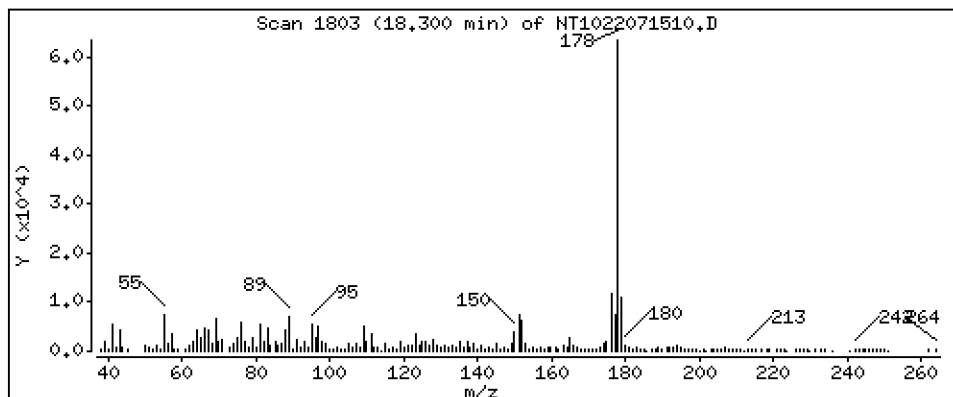
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 6,211 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

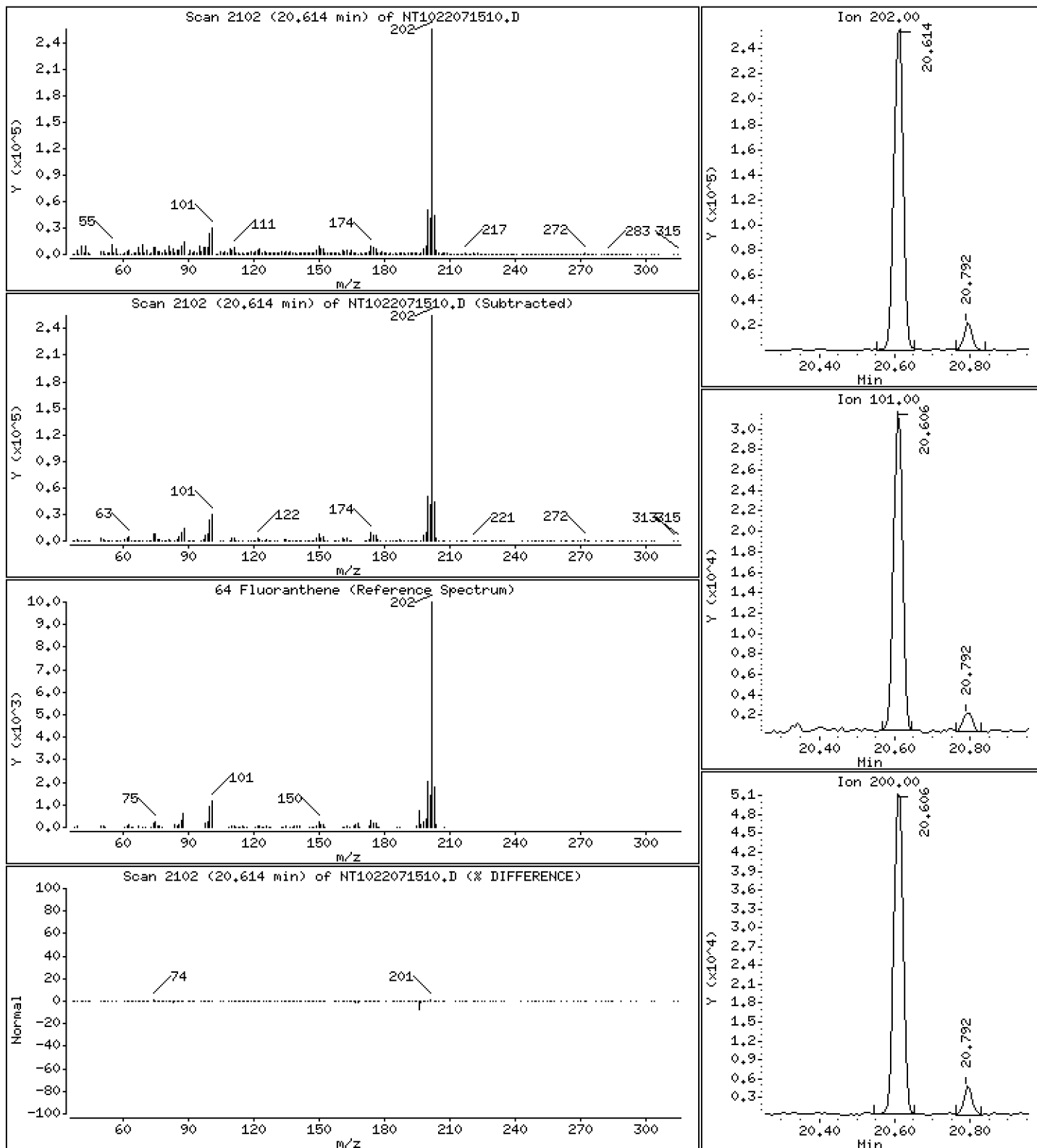
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 44,82 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 2200019-03RE1,10

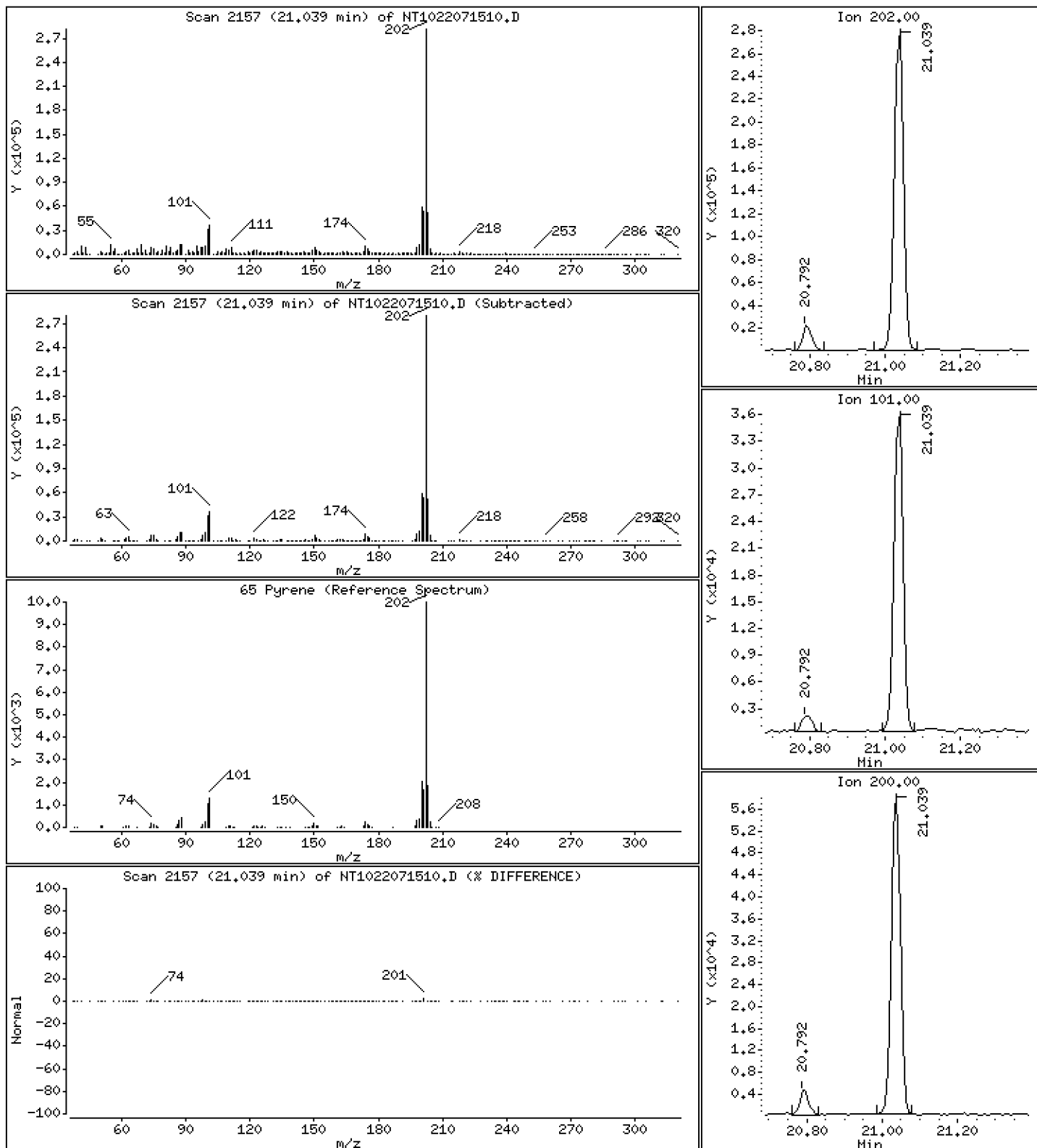
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 53,09 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

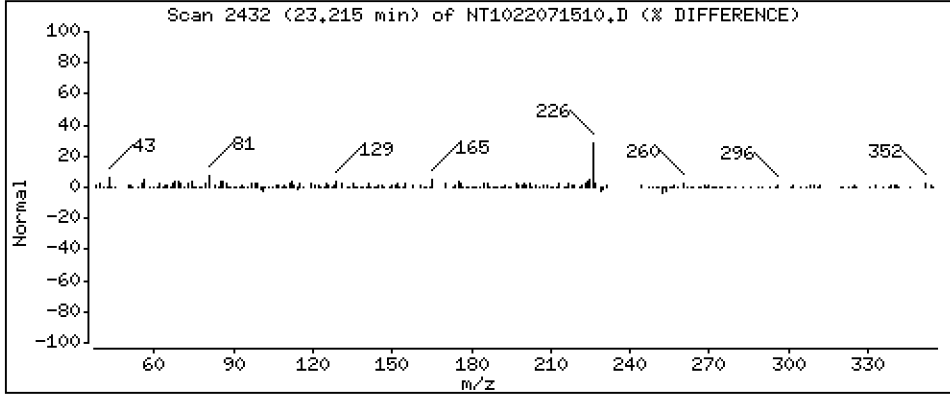
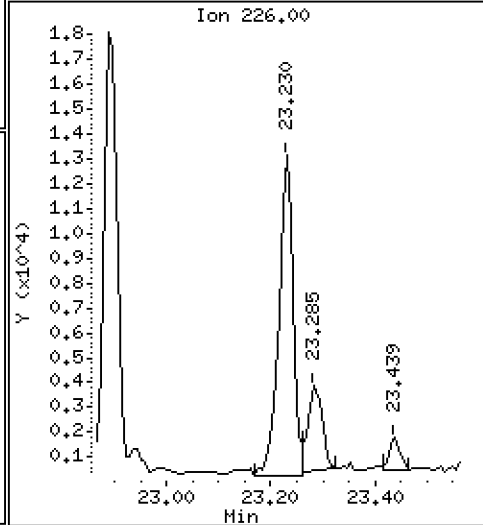
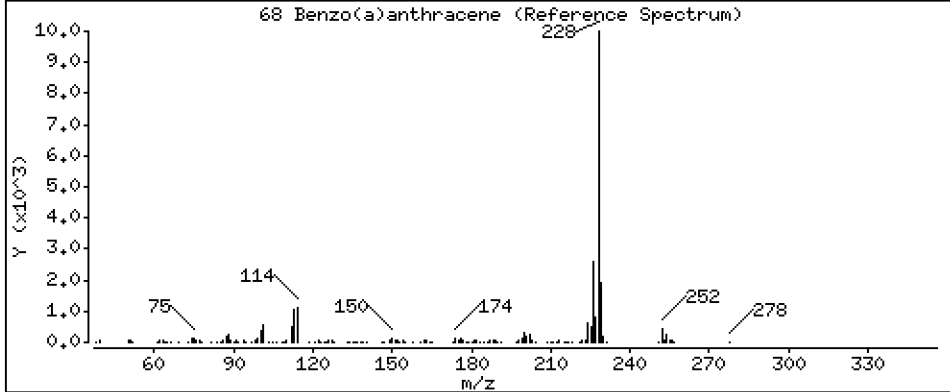
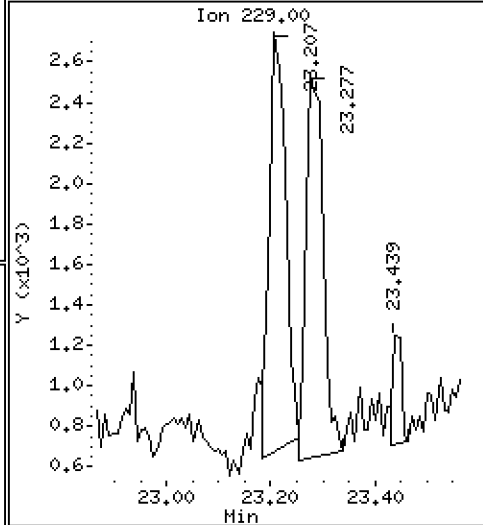
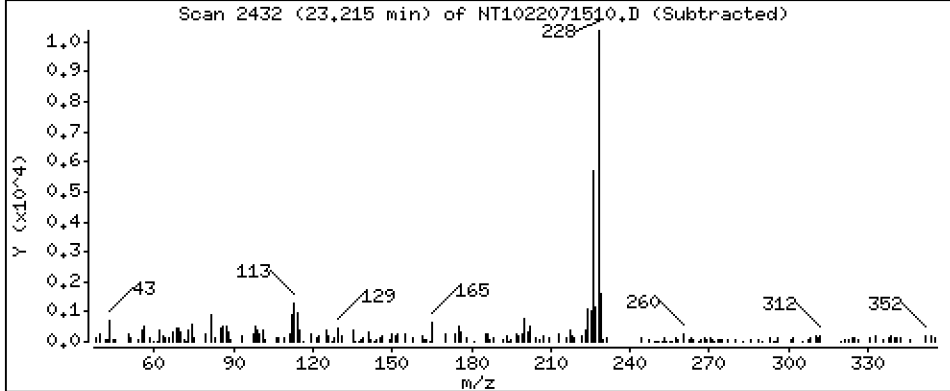
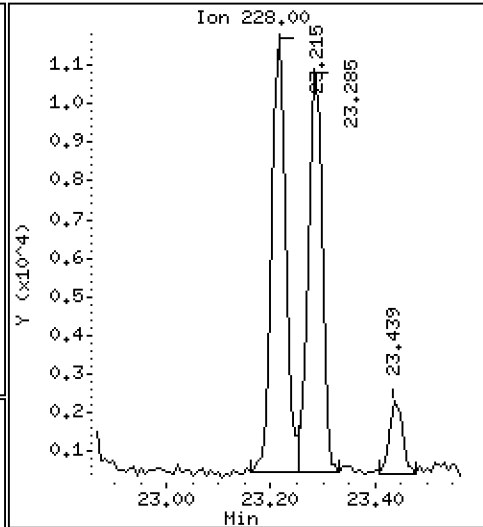
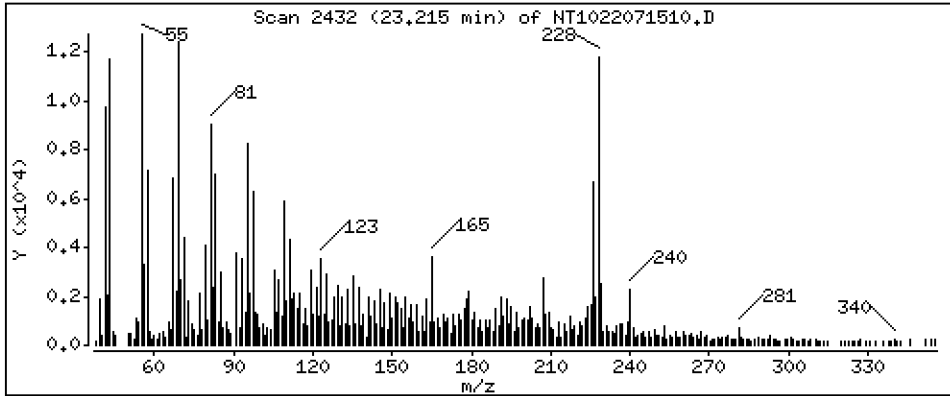
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 3,773 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

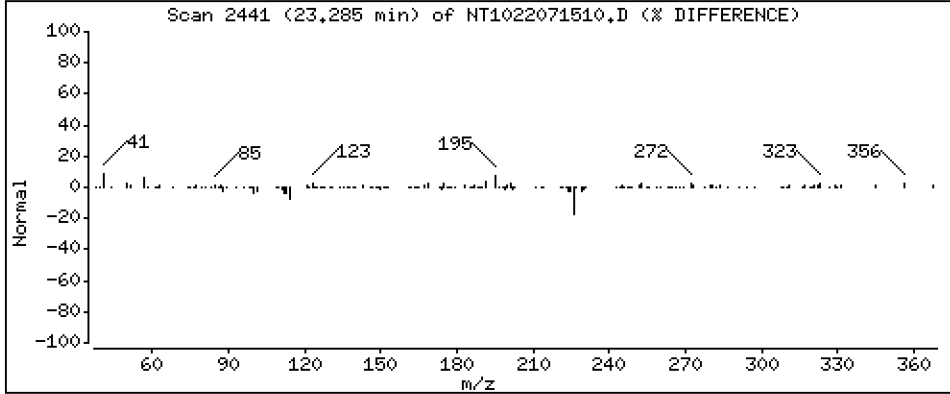
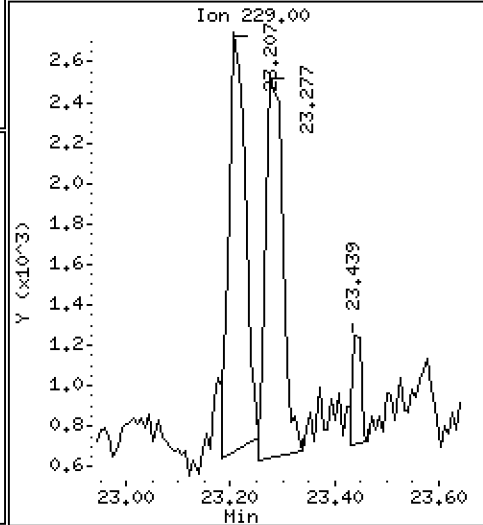
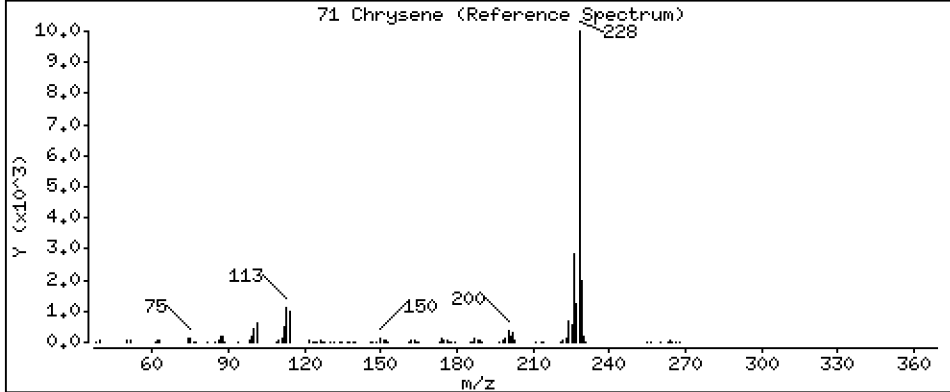
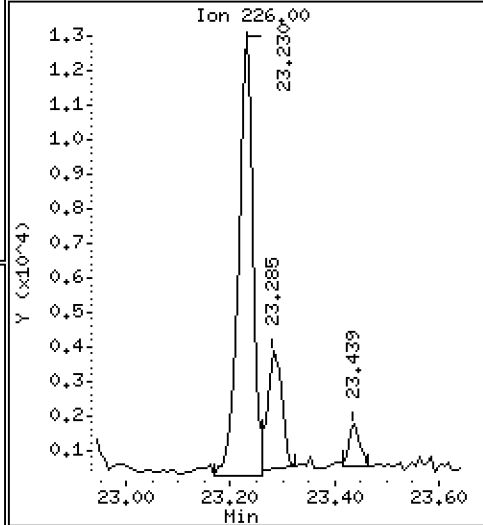
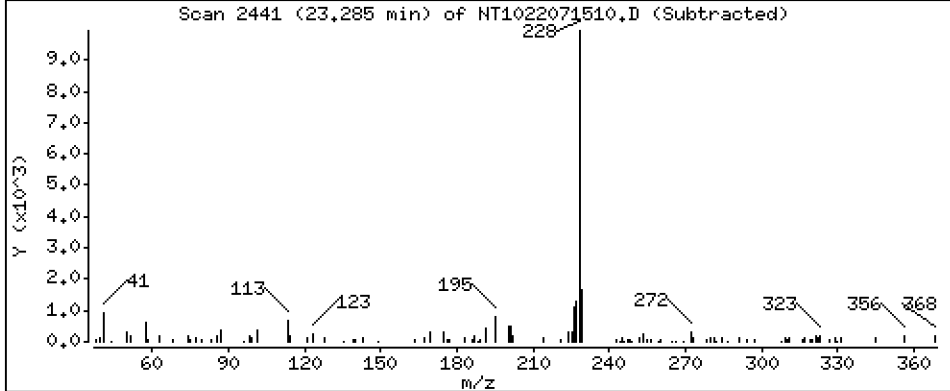
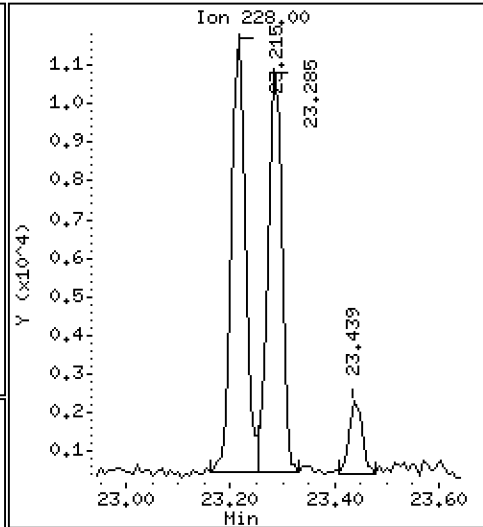
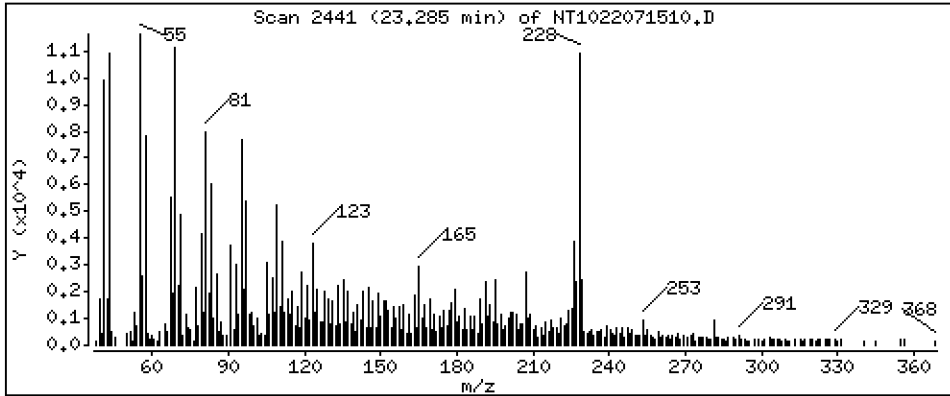
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 5,127 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

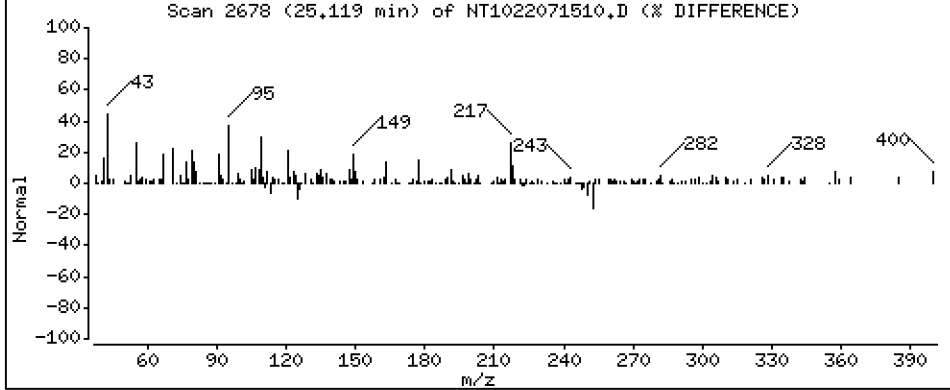
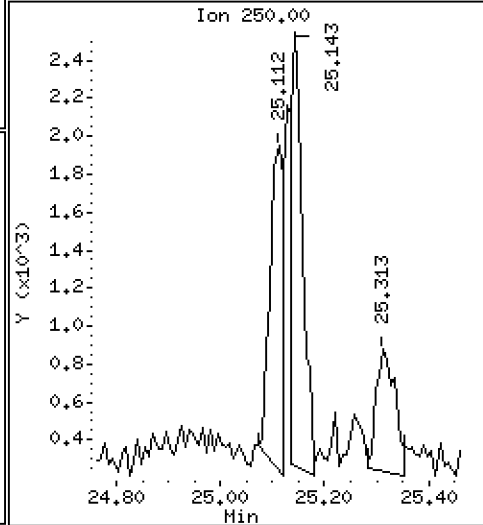
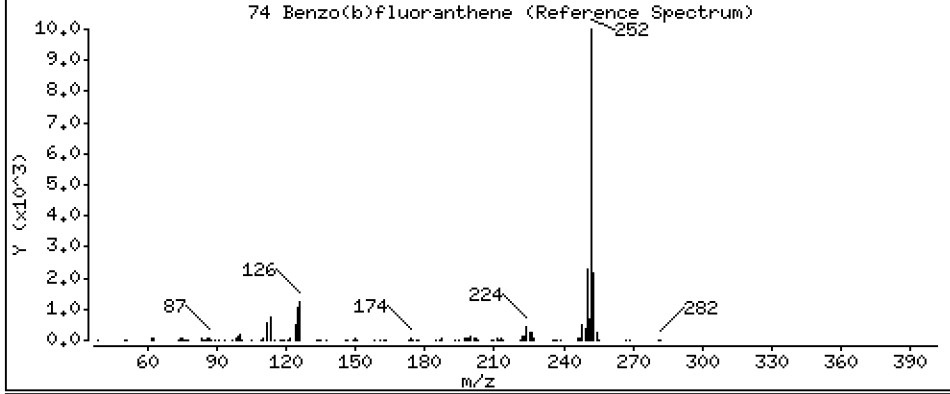
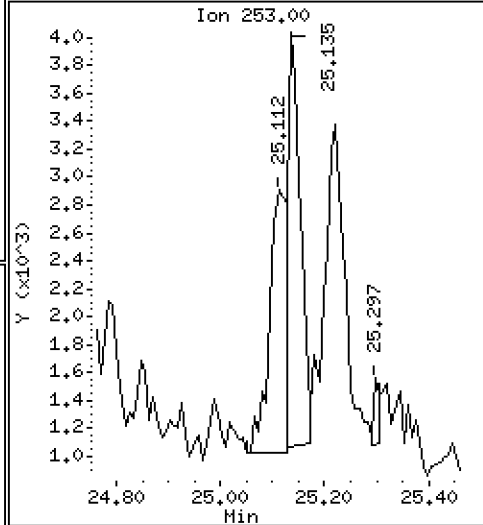
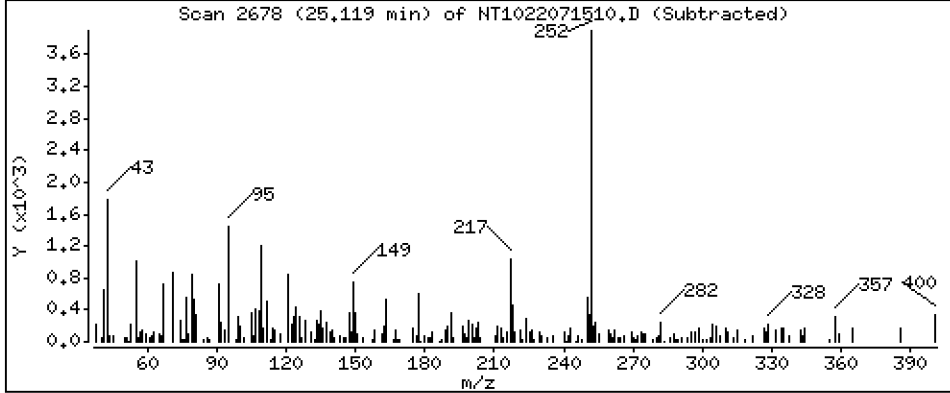
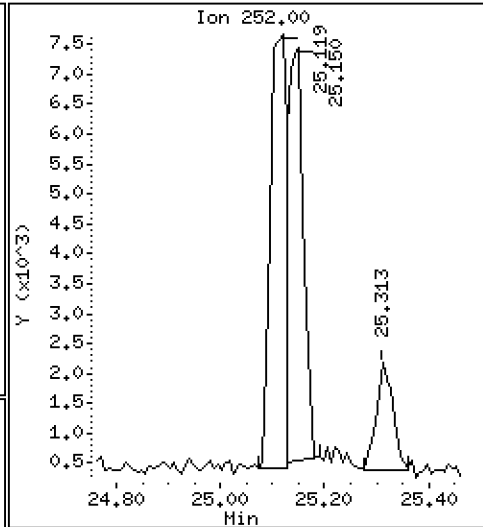
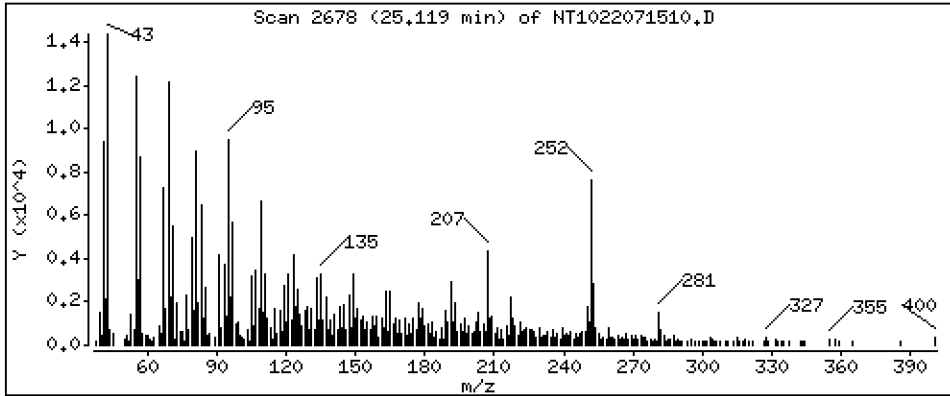
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 3,347 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

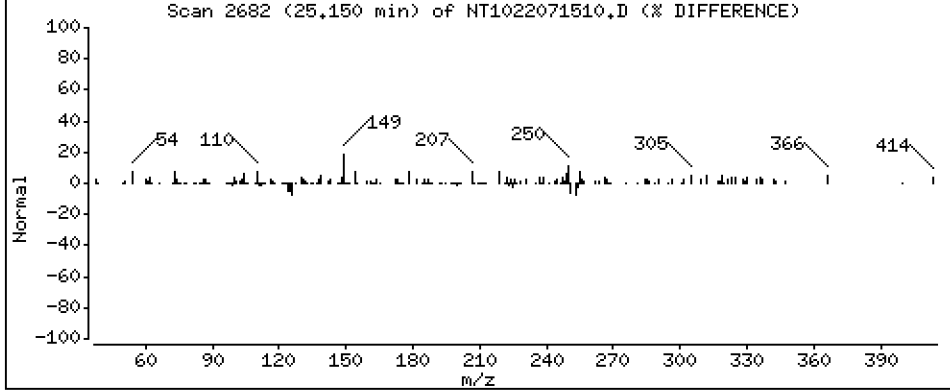
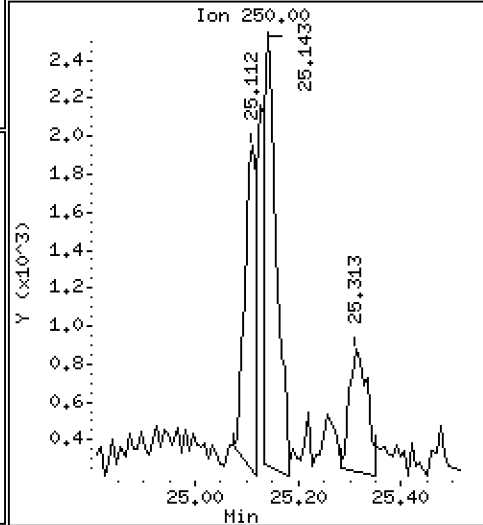
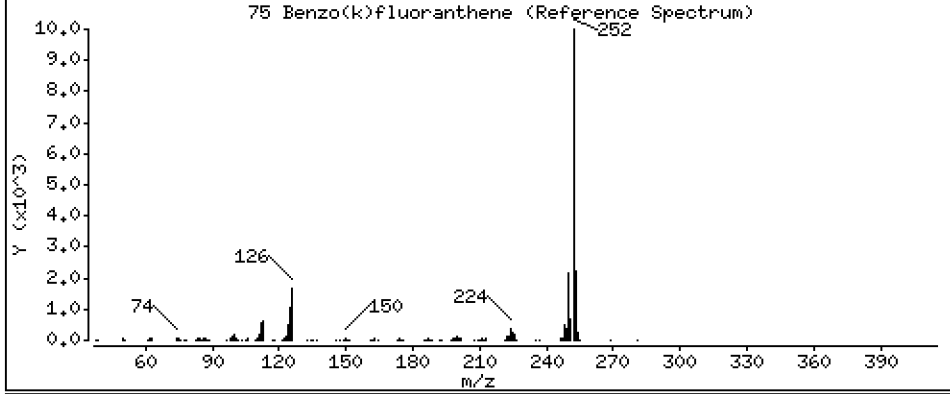
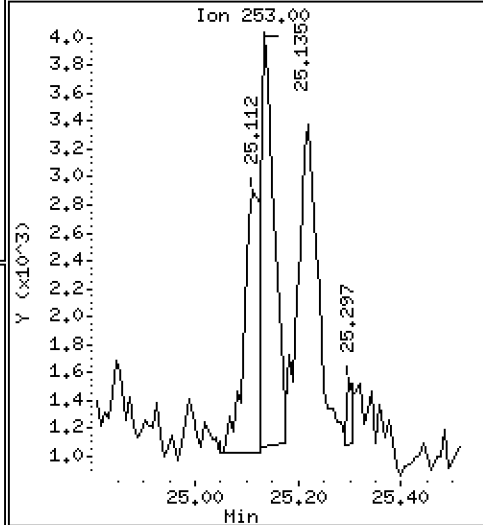
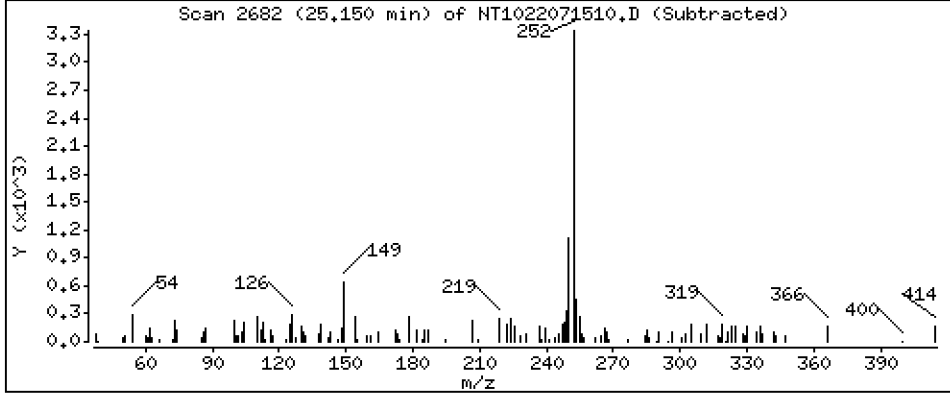
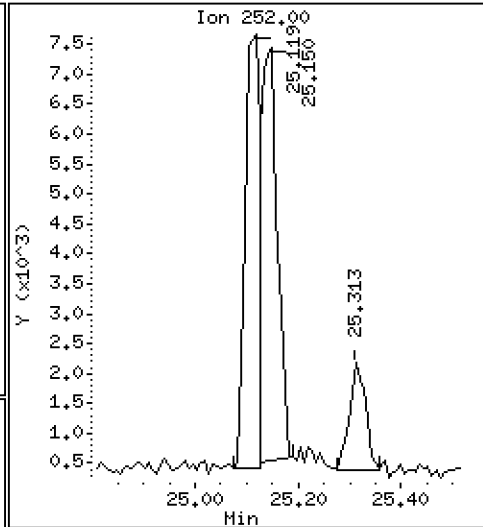
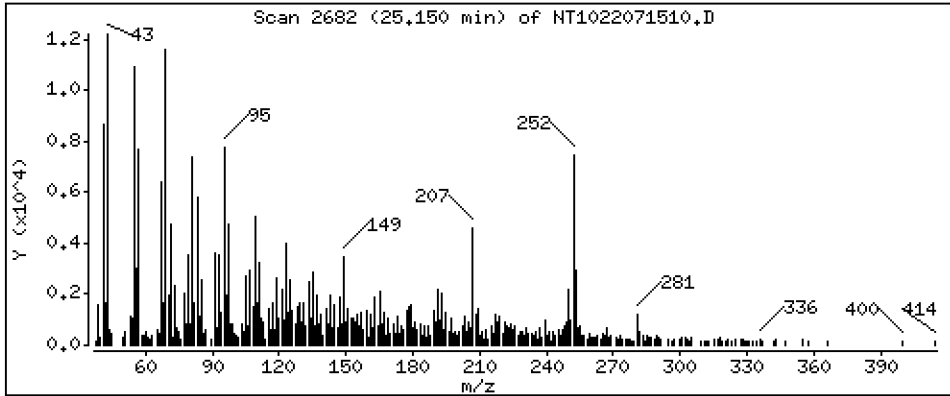
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 3,553 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

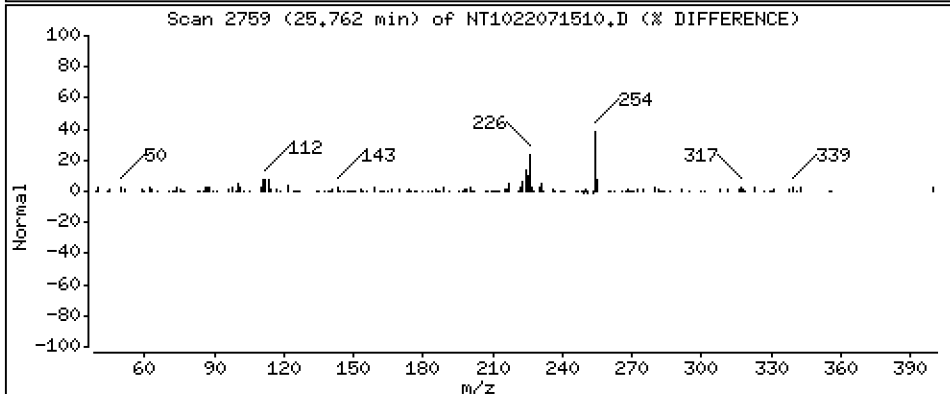
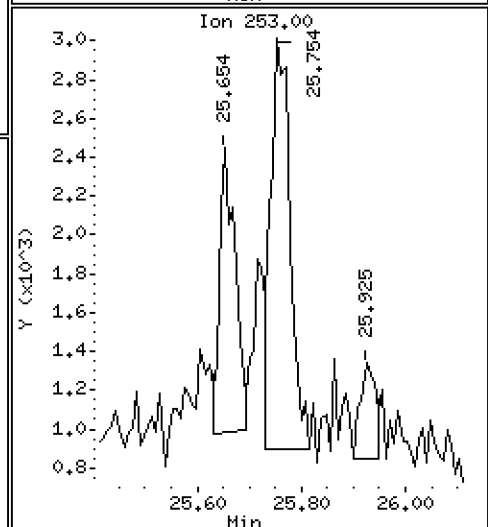
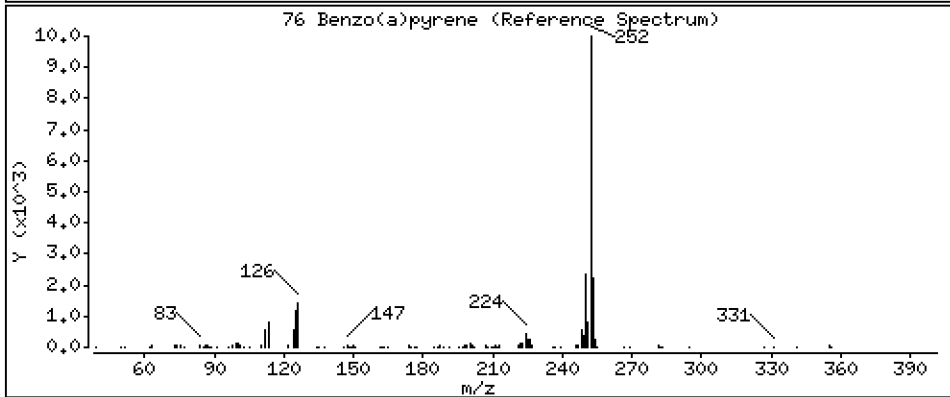
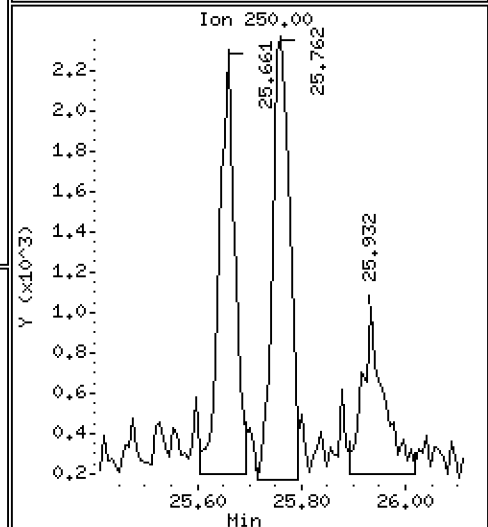
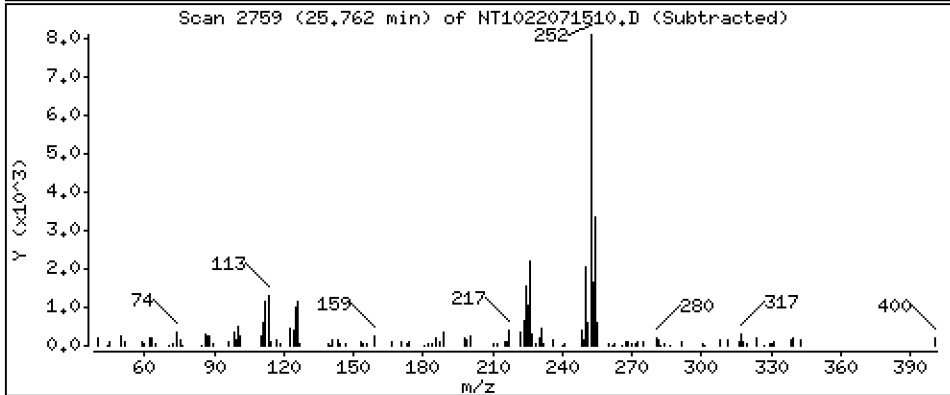
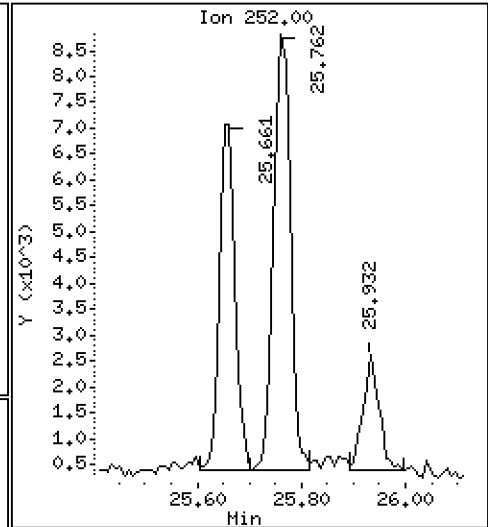
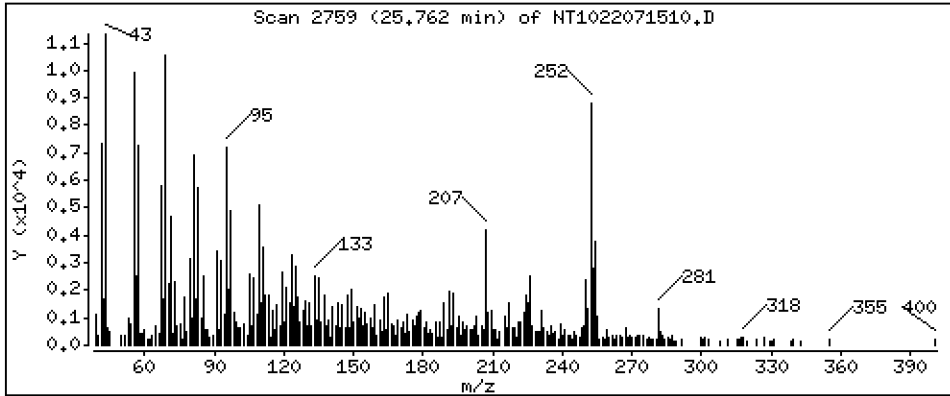
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,969 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

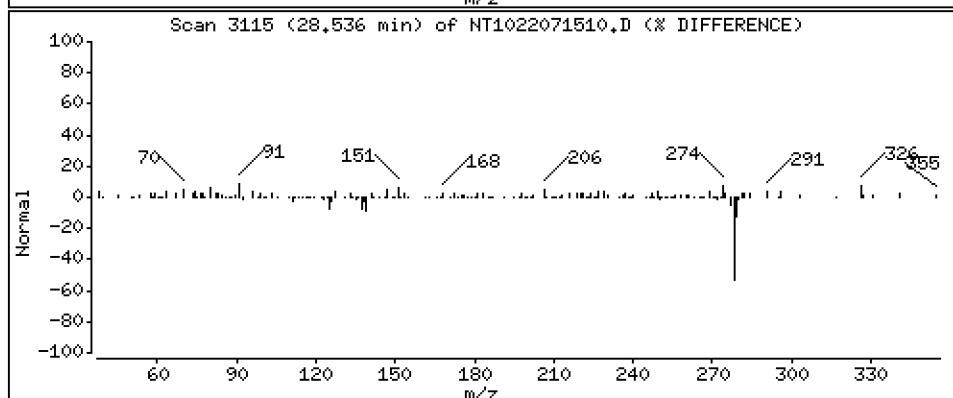
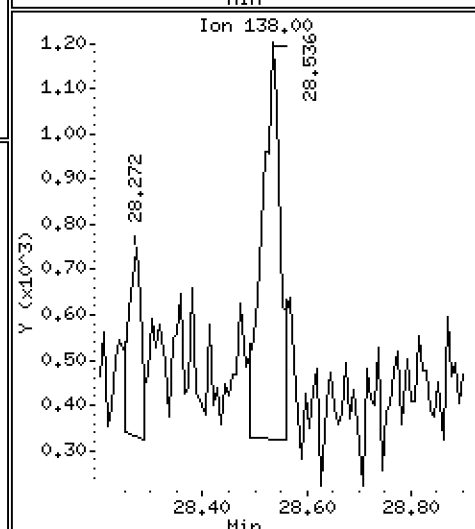
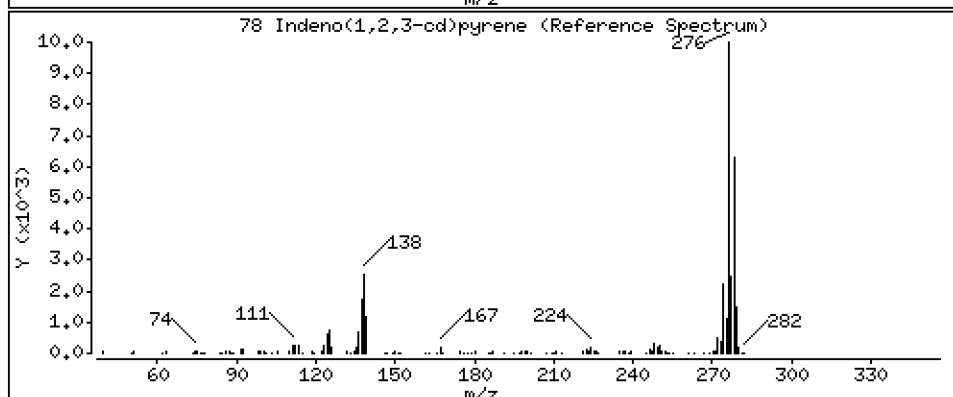
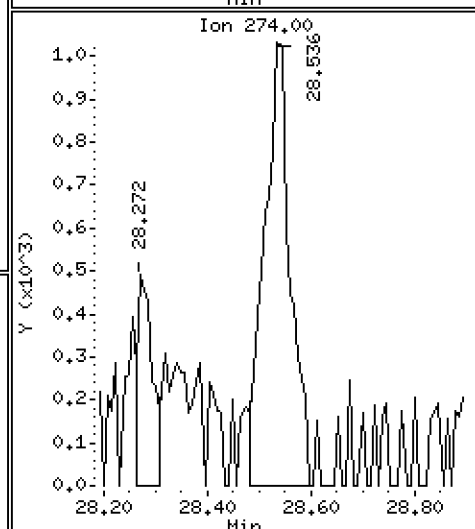
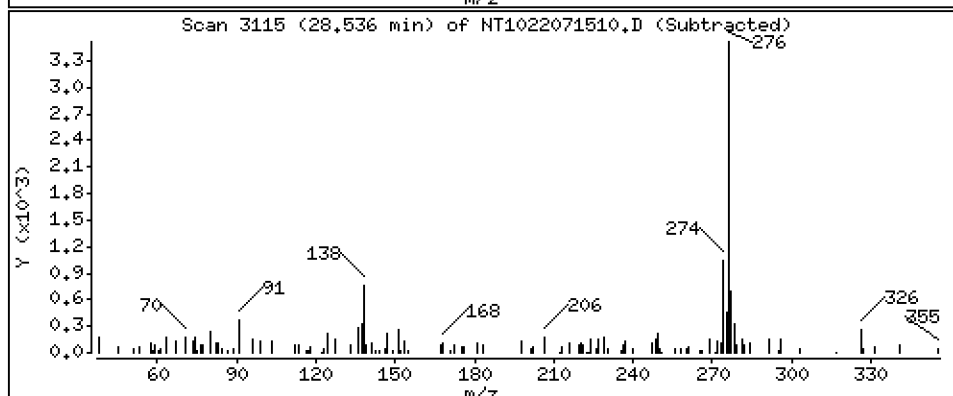
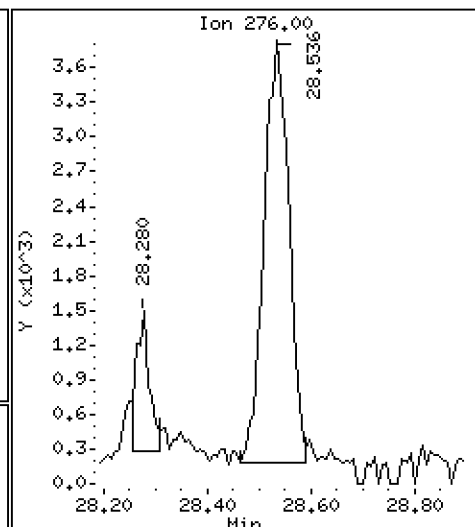
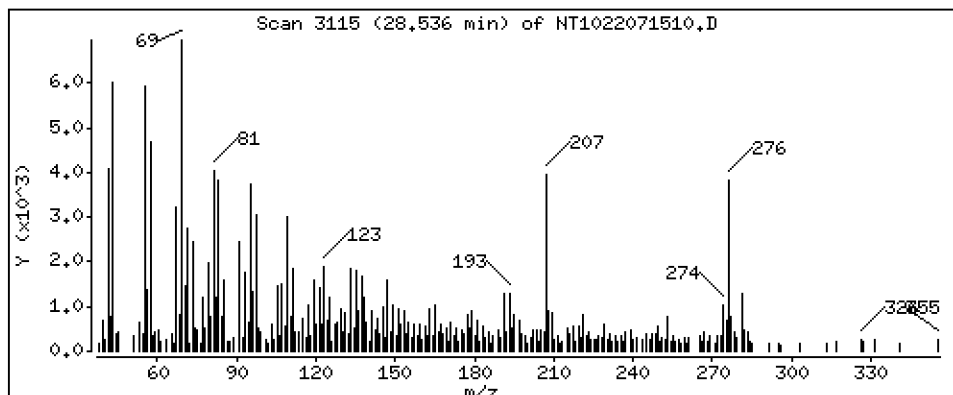
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 3,044 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

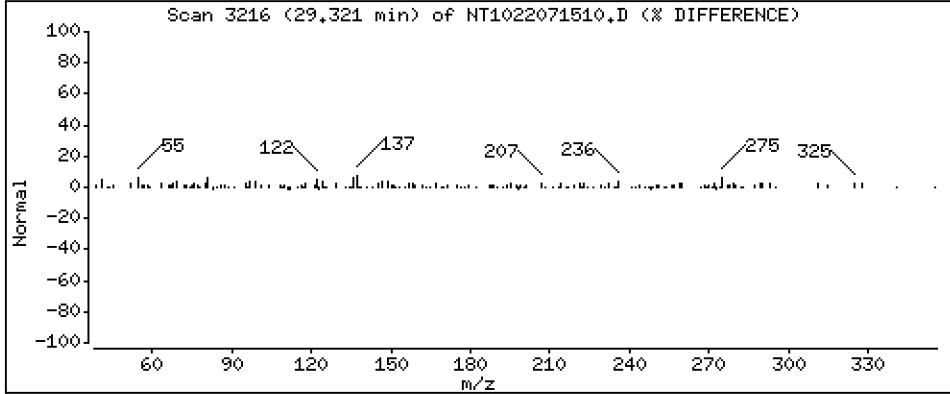
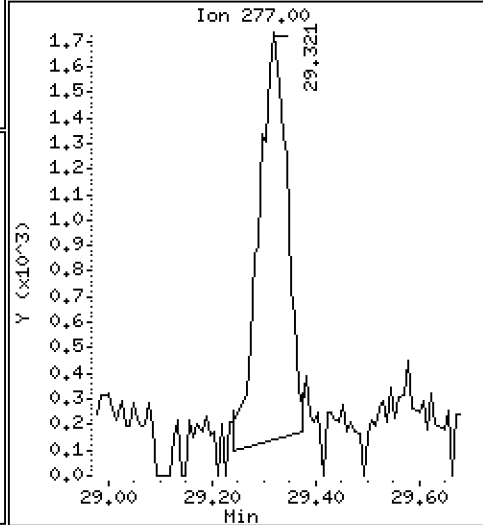
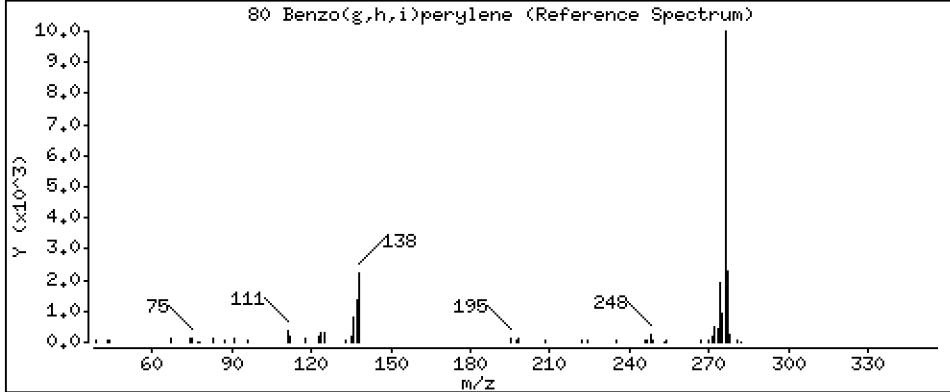
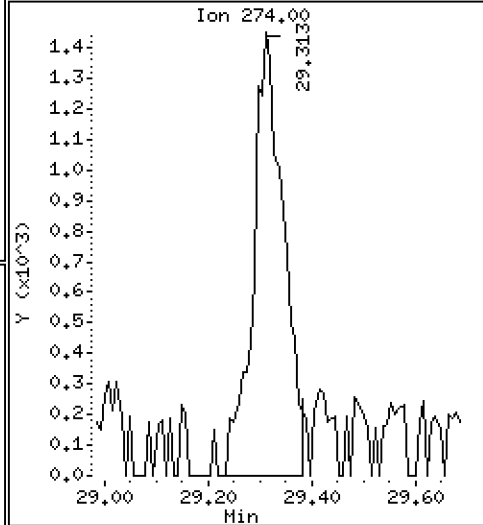
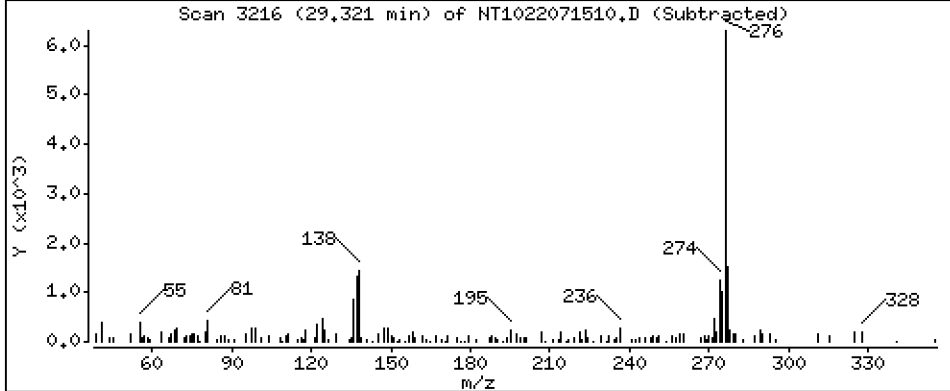
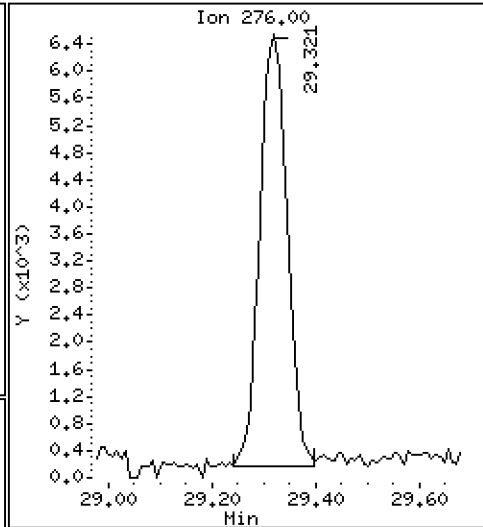
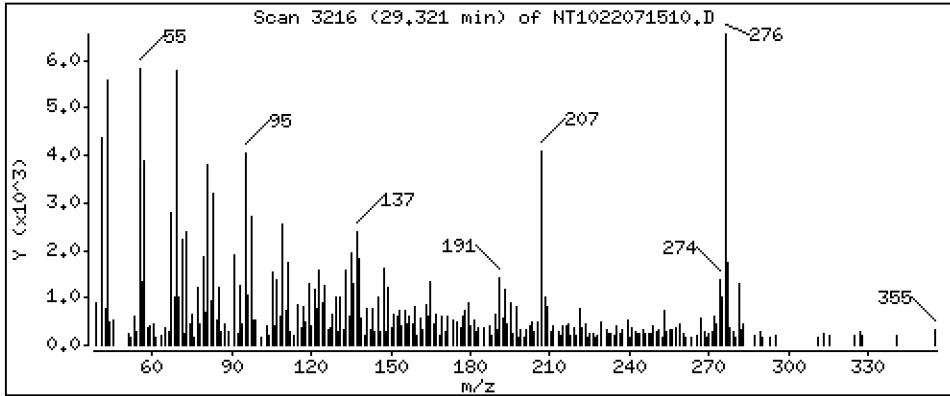
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 7,319 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

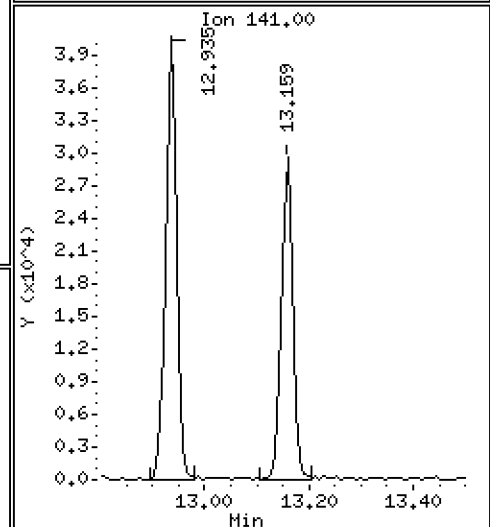
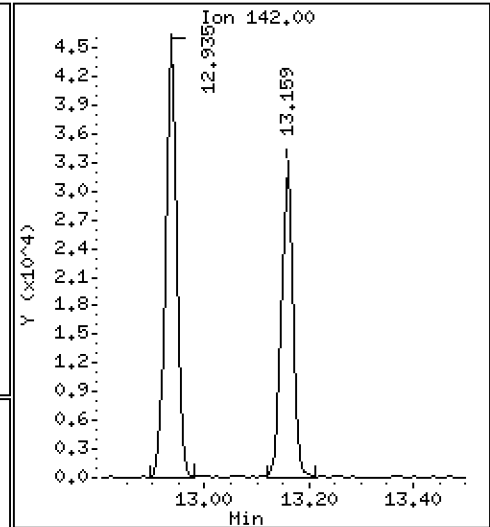
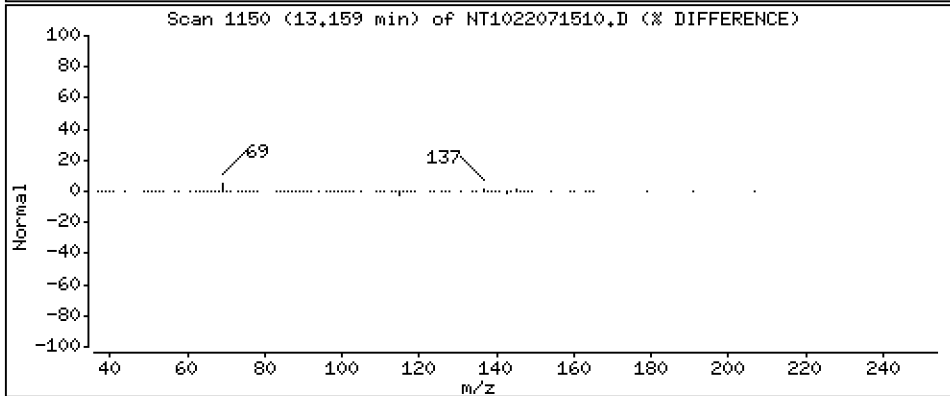
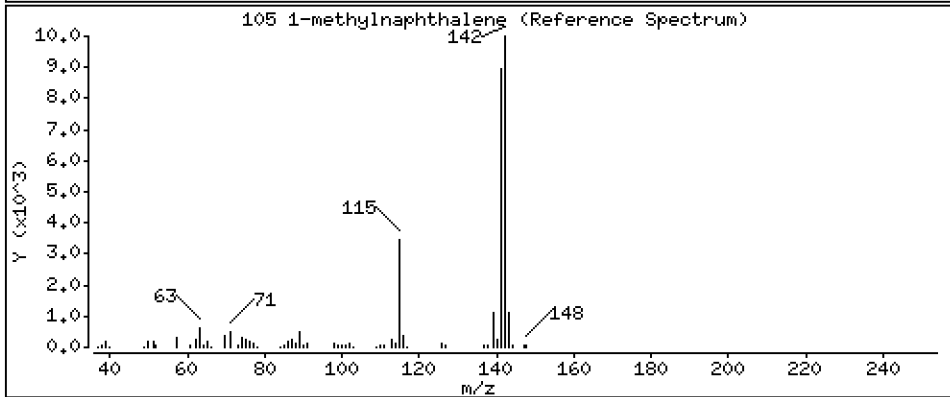
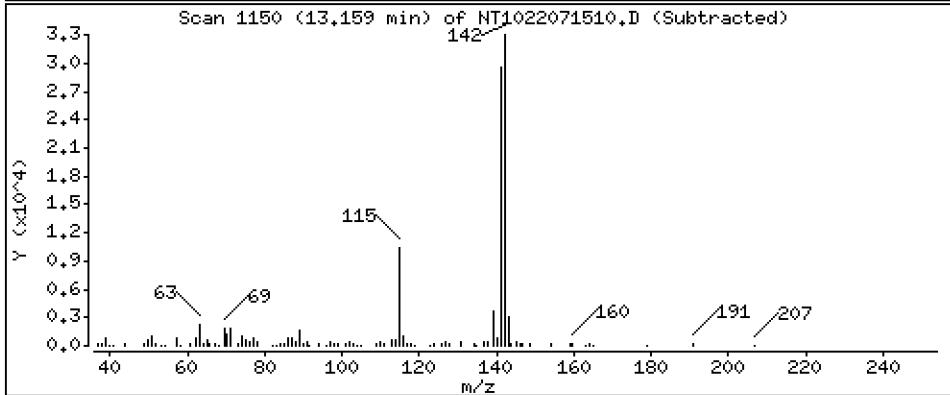
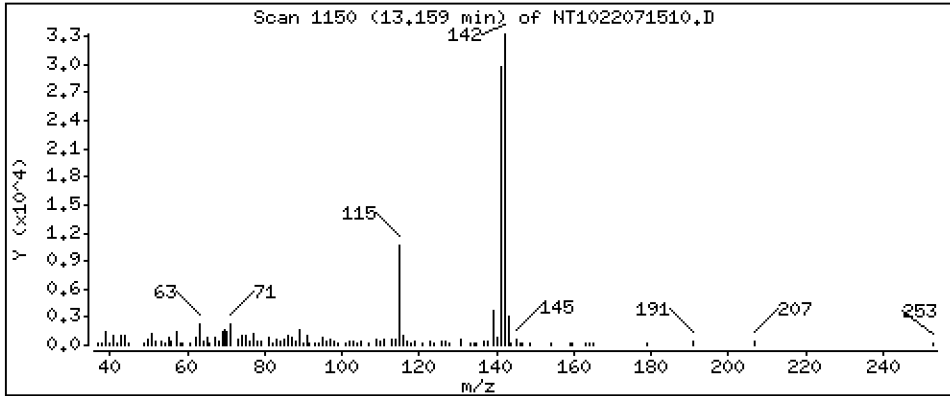
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 1,981 ug/mL



Date : 15-JUL-2022 18:03

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-03RE1,10

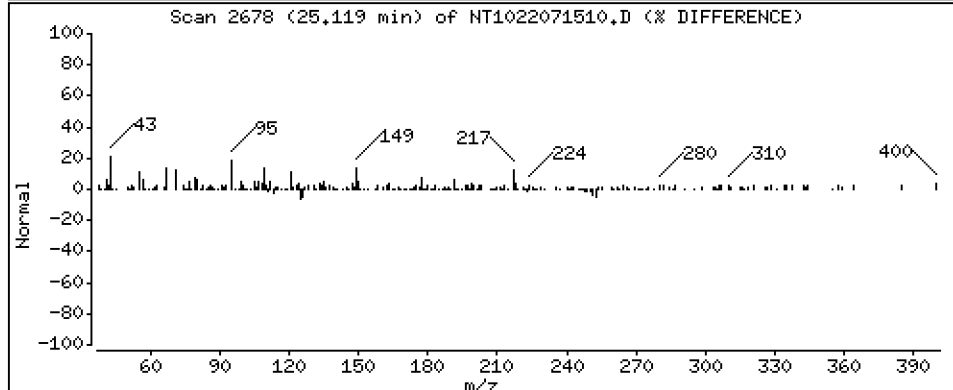
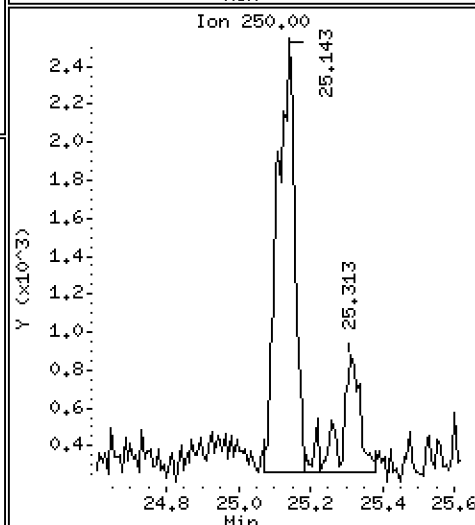
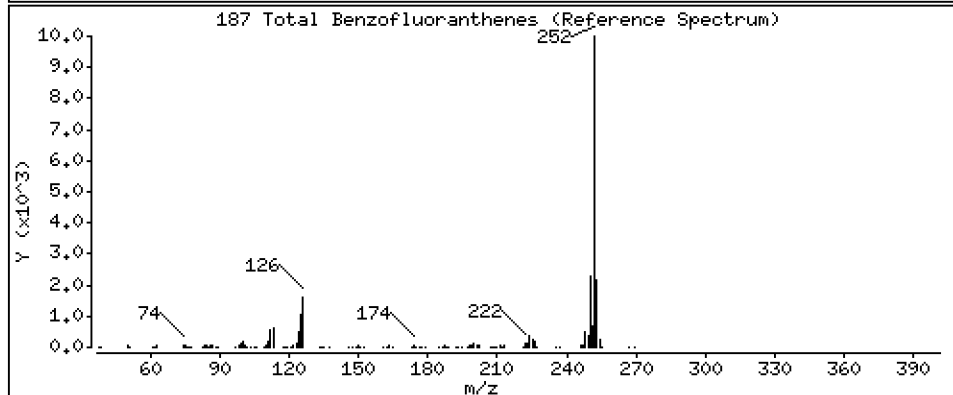
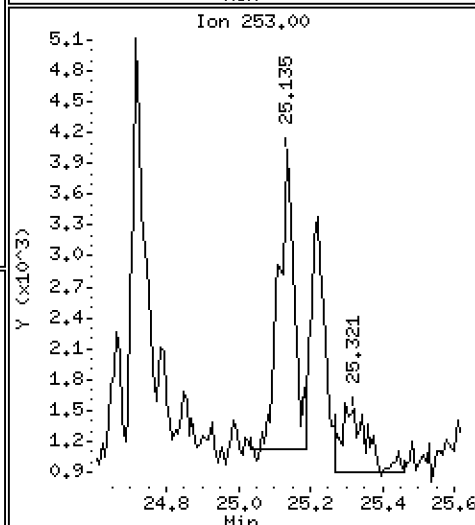
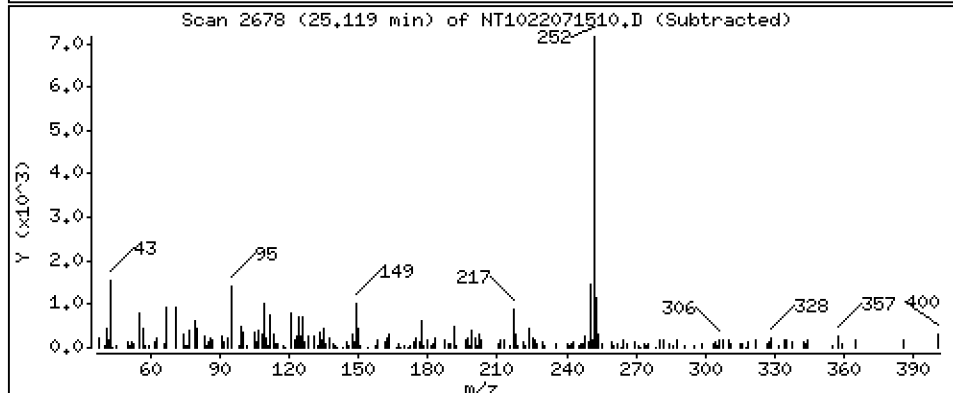
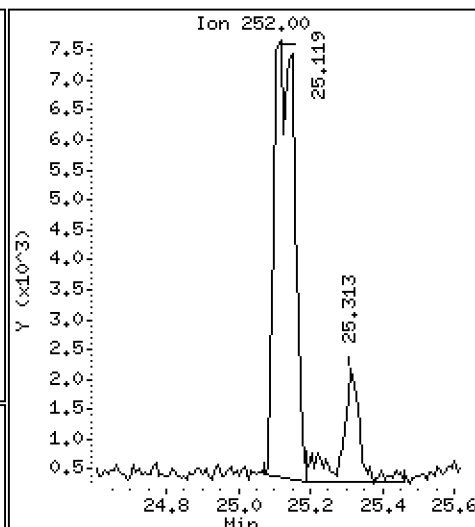
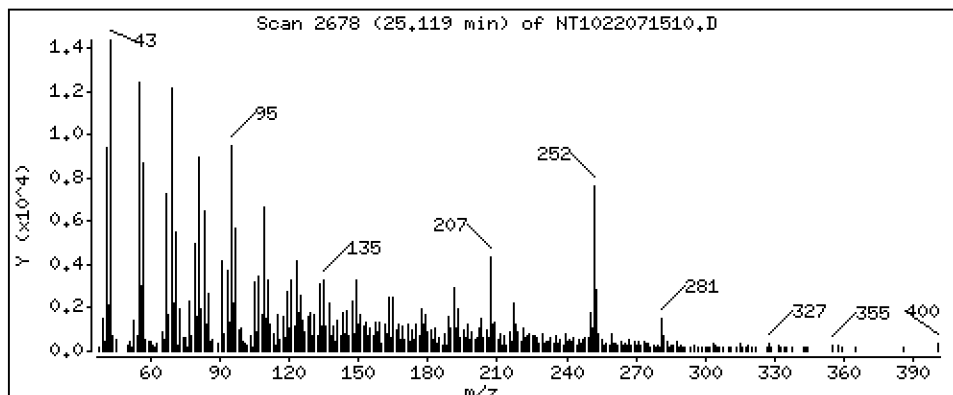
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 6,879 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071510.D
 Lab Smp Id: 22G0019-03RE1
 Inj Date : 15-JUL-2022 18:03
 Operator : VTS
 Smp Info : 22G0019-03RE1,10
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 10
 Dil Factor: 10.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.821	6.806	(0.757)	66339	0.58136	5.814
\$ 2 Phenol-d5	99		8.413	8.398	(0.934)	83038	0.49044	4.904
3 Phenol	94		8.436	8.421	(0.936)	11066	0.07500	0.7500
\$ 5 2-Chlorophenol-d4	132		8.660	8.652	(0.961)	79914	0.68731	6.873
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.008	9.001	(1.000)	312499	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.373	9.366	(1.040)	31713	0.44263	4.426
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.815	9.793	(1.090)	5850	0.06018	0.6018
\$ 18 Nitrobenzene-d5	82		10.102	10.095	(0.879)	45693	0.43268	4.327
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		10.852	10.836	(0.944)	4101	0.05021	0.5021
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.496	11.488	(1.000)	992476	4.00000	
28 Naphthalene	128		11.534	11.535	(1.003)	1513685	5.95926	59.59
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		12.934	12.927	(1.125)	69342	0.27468	2.747
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====	=====	=====	=====	=====	=====	=====	=====
34 2,4,6-Trichlorophenol	196					Compound Not Detected.		
35 2,4,5-Trichlorophenol	196					Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172		13.716	13.716	(0.908)	114666	0.56213	5.621
37 2-Chloronaphthalene	162					Compound Not Detected.		
38 2-Nitroaniline	65					Compound Not Detected.		
39 Dimethylphthalate	163					Compound Not Detected.		
40 Acenaphthylene	152		14.799	14.800	(0.980)	125996	0.47817	4.782
41 2,6-Dinitrotoluene	165					Compound Not Detected.		
* 42 Acenaphthene-d10	164		15.109	15.109	(1.000)	450766	4.00000	
43 3-Nitroaniline	138					Compound Not Detected.		
44 Acenaphthene	153		15.179	15.179	(1.005)	15049	0.11479	1.148
45 2,4-Dinitrophenol	184					Compound Not Detected.		
46 Dibenzofuran	168		15.511	15.511	(1.027)	76376	0.36659	3.666
47 4-Nitrophenol	109					Compound Not Detected.		
48 2,4-Dinitrotoluene	165					Compound Not Detected.		
50 Diethylphthalate	149					Compound Not Detected.		
49 Fluorene	166		16.222	16.223	(1.074)	107847	0.43322	4.332
51 4-Chlorophenyl-phenylether	204					Compound Not Detected.		
52 4-Nitroaniline	138					Compound Not Detected.		
53 4,6-Dinitro-2-methylphenol	198					Compound Not Detected.		
54 N-Nitrosodiphenylamine	169					Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330		16.762	16.762	(1.109)	12756	0.62745	6.275
56 4-Bromophenyl-phenylether	248					Compound Not Detected.		
57 Hexachlorobenzene	284					Compound Not Detected.		
58 Pentachlorophenol	266					Compound Not Detected.		
* 59 Phenanthrene-d10	188		18.161	18.161	(1.000)	592562	4.00000	
60 Phenanthrene	178		18.207	18.207	(1.003)	563320	3.61851	36.19
61 Anthracene	178		18.300	18.300	(1.008)	103047	0.62114	6.211
62 Carbazole	167					Compound Not Detected.		
63 Di-n-butylphthalate	149					Compound Not Detected.		
64 Fluoranthene	202		20.613	20.606	(0.887)	419199	4.48182	44.82
65 Pyrene	202		21.039	21.031	(0.905)	439446	5.30939	53.09
\$ 66 Terphenyl-d14	244		21.325	21.326	(0.917)	27366	0.61020	6.102
67 Butylbenzylphthalate	149					Compound Not Detected.		
68 Benzo(a)anthracene	228		23.214	23.215	(0.999)	20549	0.37734	3.773
* 69 Chrysene-d12	240		23.245	23.246	(1.000)	128514	4.00000	
70 3,3'-Dichlorobenzidine	252					Compound Not Detected.		
71 Chrysene	228		23.284	23.292	(1.002)	18546	0.51270	5.127
72 bis(2-Ethylhexyl)phthalate	149					Compound Not Detected.		
* 134 Di-n-octylphthalate-d4	153		24.306	24.306	(1.000)	250839	4.00000	
73 Di-n-octylphthalate	149					Compound Not Detected.		
74 Benzo(b)fluoranthene	252		25.119	25.112	(0.971)	15266	0.33469	3.347
75 Benzo(k)fluoranthene	252		25.150	25.158	(0.972)	15583	0.35529	3.553
76 Benzo(a)pyrene	252		25.761	25.762	(0.996)	18550	0.49690	4.969
* 77 Perylene-d12	264		25.878	25.878	(1.000)	100715	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.536	28.544	(1.103)	12132	0.30437	3.044
79 Dibenzo(a,h)anthracene	278					Compound Not Detected.		
80 Benzo(g,h,i)perylene	276		29.320	29.329	(1.133)	23321	0.73194	7.319
90 N-Nitrosodimethylamine	74					Compound Not Detected.		
91 Aniline	93					Compound Not Detected.		
93 Benzidine	184					Compound Not Detected.		
103 Pyridine	79					Compound Not Detected.		
105 1-methylnaphthalene	142		13.159	13.151	(1.145)	49128	0.19808	1.981
111 Azobenzene (1,2-DP-Hydrazine)	77					Compound Not Detected.		

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.119	25.112	(0.971)	29255	0.68789	6.879	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071510.D Calibration Time: 12:41
 Lab Smp Id: 22G0019-03RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	312499	55.06
27 Naphthalene-d8	649654	324827	1299308	992476	52.77
42 Acenaphthene-d10	370460	185230	740920	450766	21.68
59 Phenanthrene-d10	647298	323649	1294596	592562	-8.46
69 Chrysene-d12	221116	110558	442232	128514	-41.88
134 Di-n-octylphthala	319144	159572	638288	250839	-21.40
77 Perylene-d12	105234	52617	210468	100715	-4.29

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.01	0.08
27 Naphthalene-d8	11.49	10.99	11.99	11.50	0.06
42 Acenaphthene-d10	15.11	14.61	15.61	15.11	-0.00
59 Phenanthrene-d10	18.16	17.66	18.66	18.16	-0.00
69 Chrysene-d12	23.25	22.75	23.75	23.25	-0.00
134 Di-n-octylphthala	24.31	23.81	24.81	24.31	-0.00
77 Perylene-d12	25.88	25.38	26.38	25.88	-0.00

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

REVIEW SUMMARY FOR FILE - NT1022071510.D

Lab ID: 22G0019-03RE1
nt10.i, ABN.m, 15-JUL-2022 18:03

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022071502.D

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

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



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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-04 A

SDG: 22G0019

Sampled: 06/28/22 10:40

Prepared: 07/07/22 10:01

File ID: NT1022071511.D

% Solids: 46.02

Preparation: EPA 3546 (Microwave)

Analyzed: 07/15/22 18:42

Batch: BKG0069

Sequence: SKG0154

Initial/Final: 21.74 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	5	9060	D	21.2	100
91-57-6	2-Methylnaphthalene	5	99700	D, E	22.5	100
83-32-9	Acenaphthene	5	13100	D, E	26.1	100
87-86-5	Pentachlorophenol	5	1610	M, Q, D	156	500
85-01-8	Phenanthrene	5	80000	D, E	43.6	100
206-44-0	Fluoranthene	5	3310	Q, D	30.4	100
56-55-3	Benzo(a)anthracene	5	784	D	29.8	100
218-01-9	Chrysene	5	1410	Q, D	30.3	100
205-99-2	Benzo(b)fluoranthene	5	668	D	35.1	100
207-08-9	Benzo(k)fluoranthene	5	489	D	25.0	100
50-32-8	Benzo(a)pyrene	5	760	D	21.1	100
193-39-5	Indeno(1,2,3-cd)pyrene	5	238	D	73.2	100
53-70-3	Dibenzo(a,h)anthracene	5	86.1	U	86.1	100
90-12-0	1-Methylnaphthalene	5	86400	D, E	26.3	100

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.64	663	88.4	27 - 120	
Phenol-d5	749.64	517	69.0	29 - 120	
2-Chlorophenol-d4	749.64	667	89.0	31 - 120	
1,2-Dichlorobenzene-d4	499.76	405	81.0	32 - 120	
Nitrobenzene-d5	499.76	566	113	30 - 120	
2-Fluorobiphenyl	499.76	259	51.8	35 - 120	
2,4,6-Tribromophenol	749.64	376	50.2	24 - 134	
p-Terphenyl-d14	499.76	440	88.1	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220715.6\NT1022071511.D

Date: 15-JUL-2022 18:42

Client ID:

Sample Info: 2200019-04,5

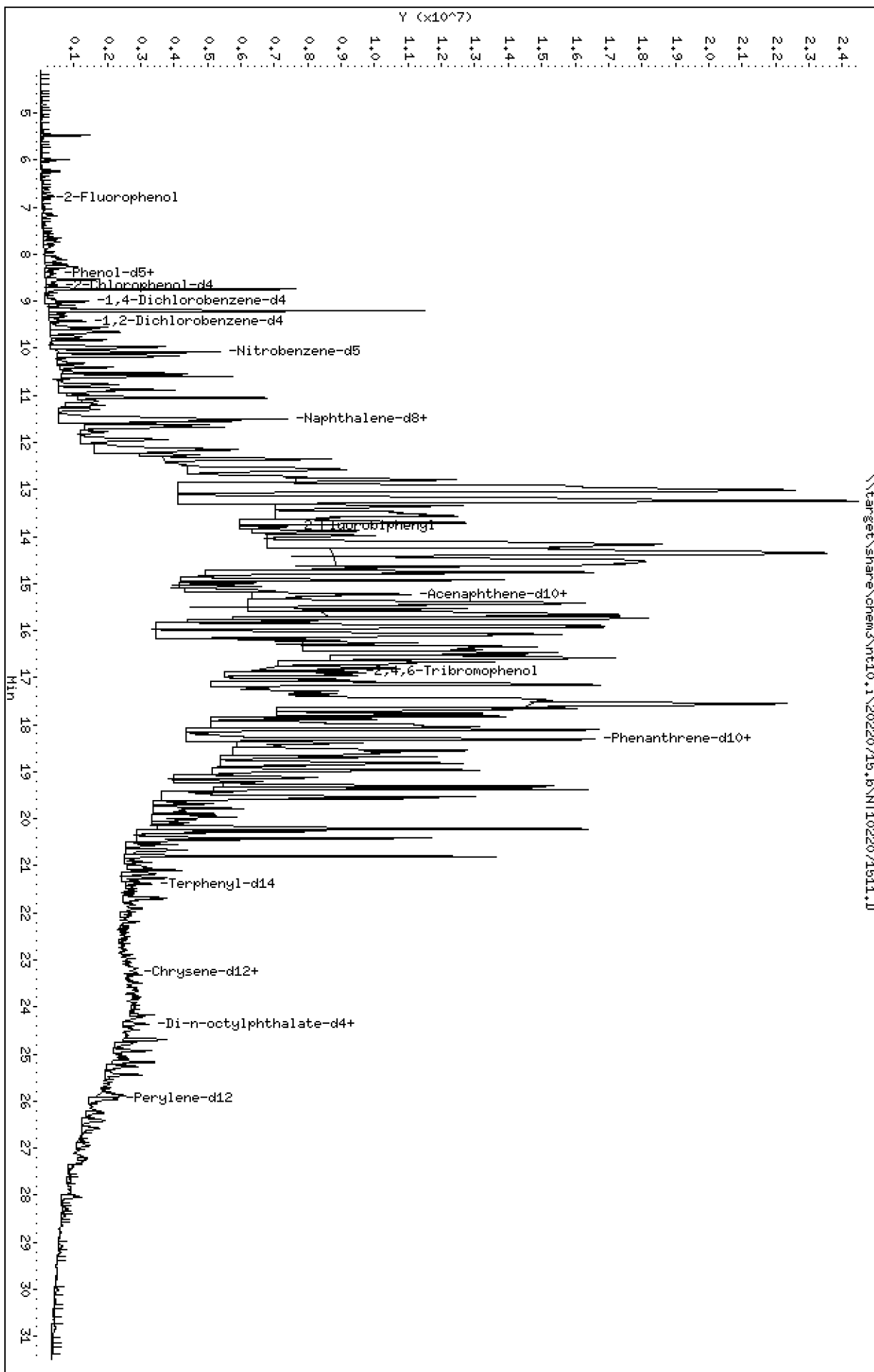
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 2200019-04,5

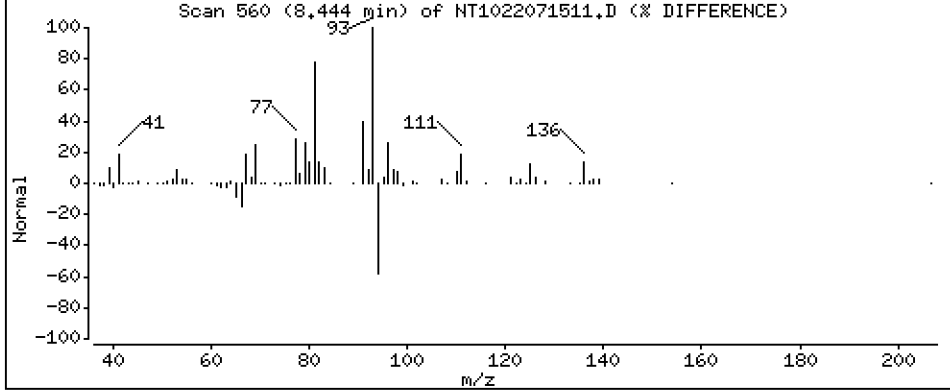
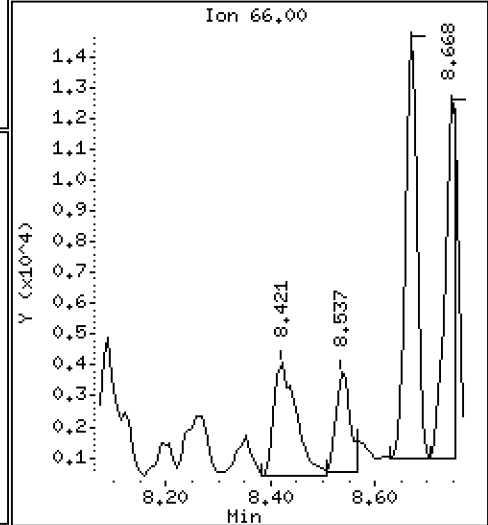
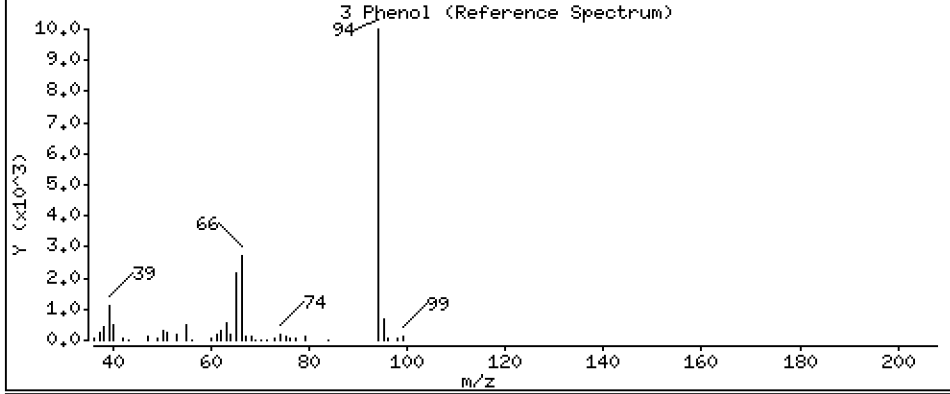
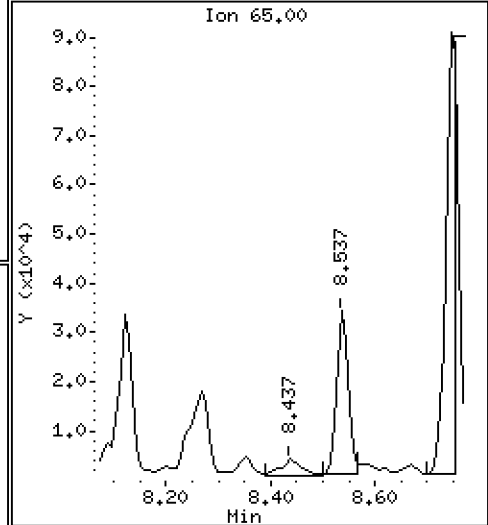
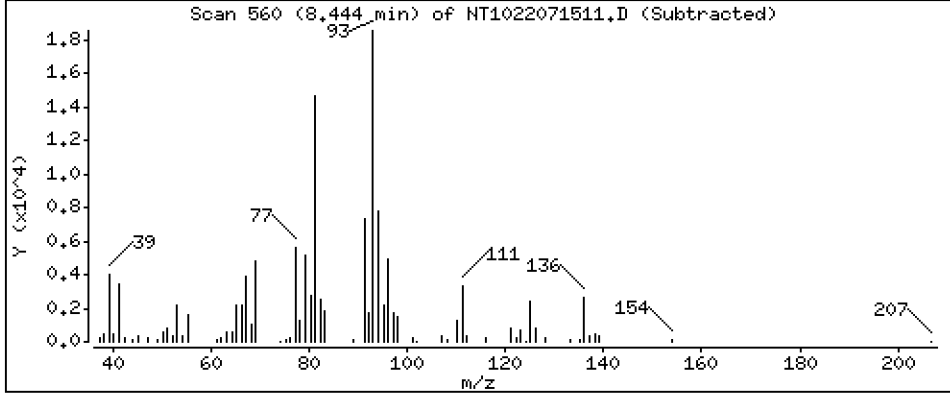
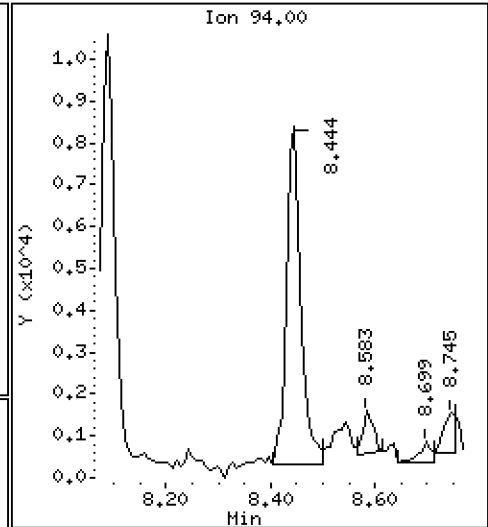
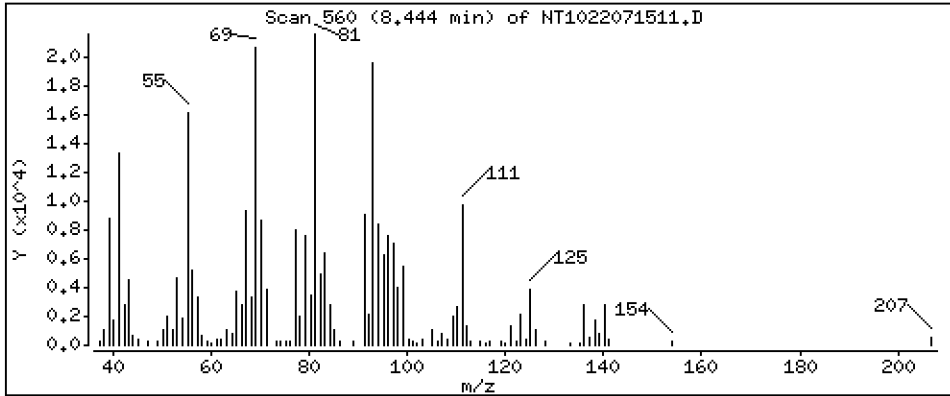
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,8484 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04,5

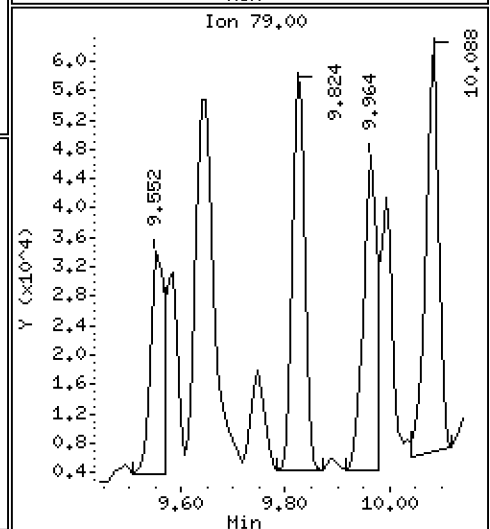
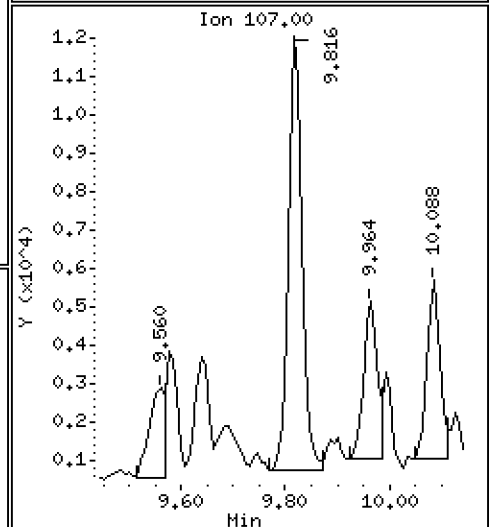
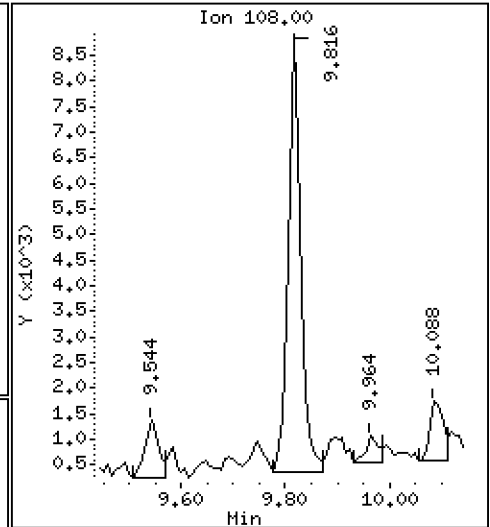
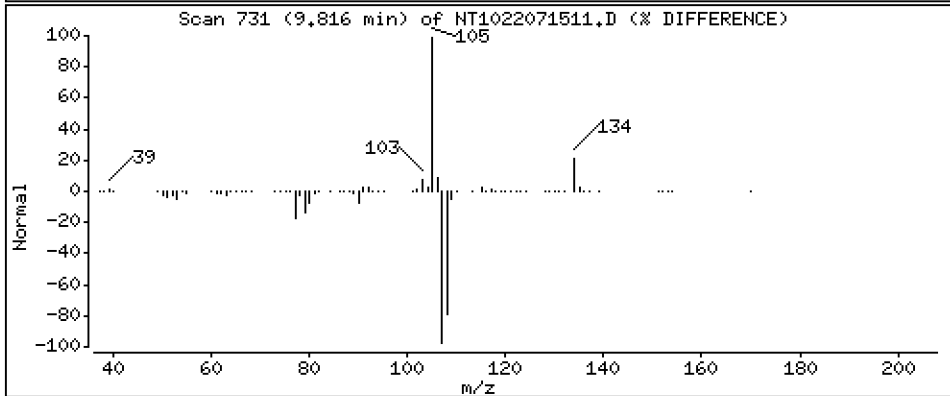
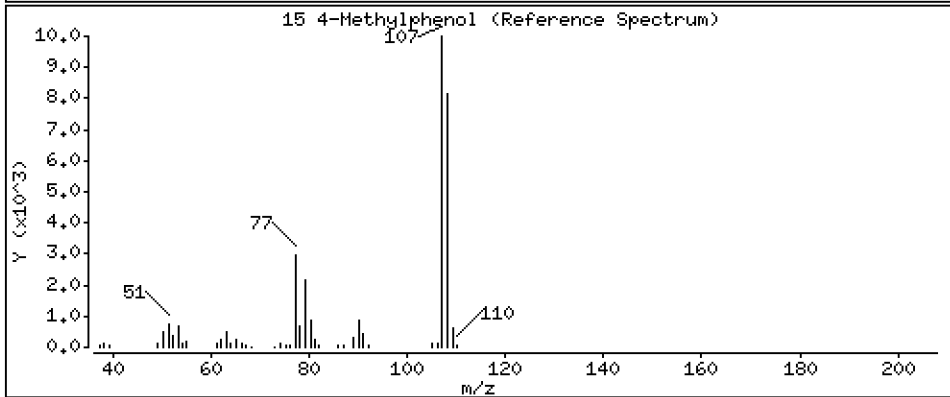
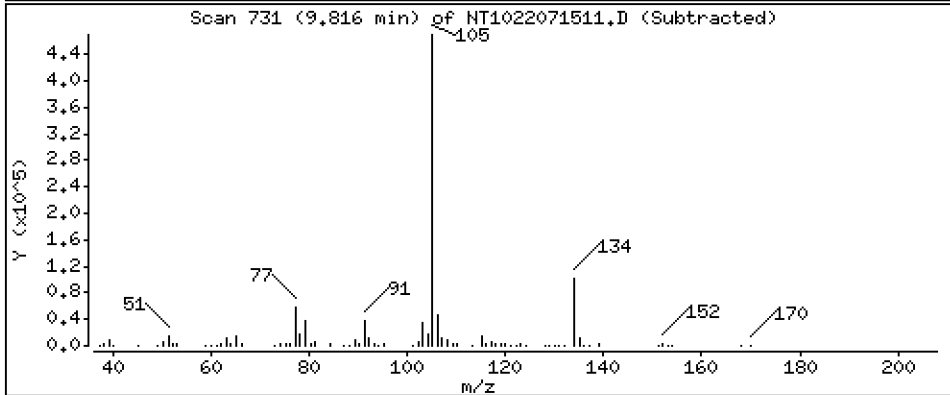
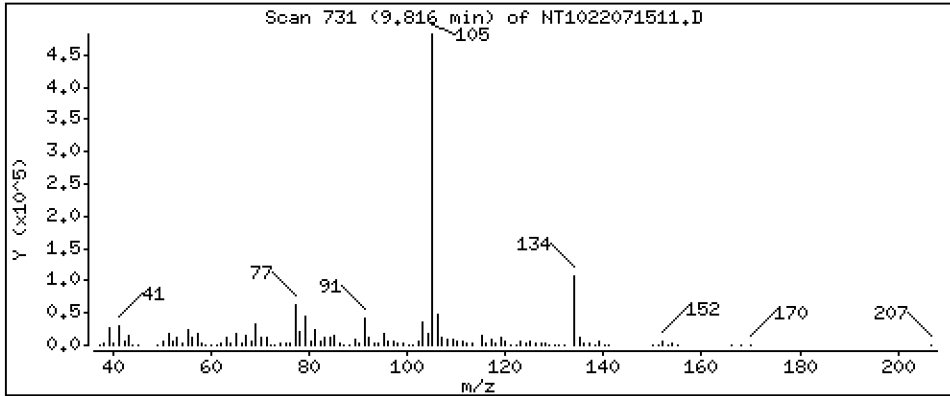
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 1,200 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 2200019-04,5

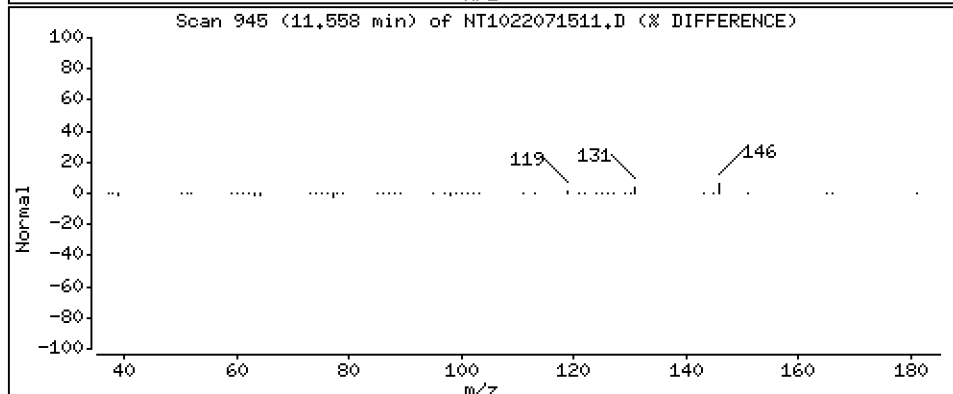
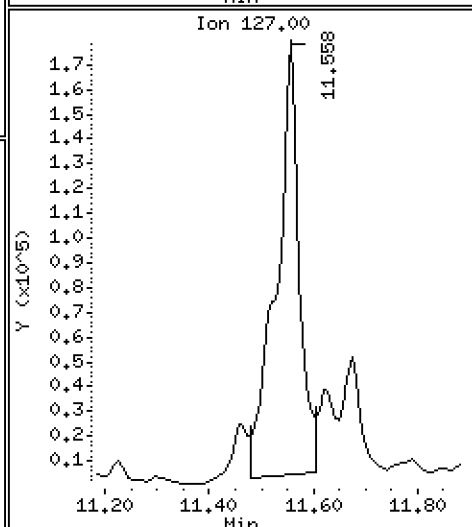
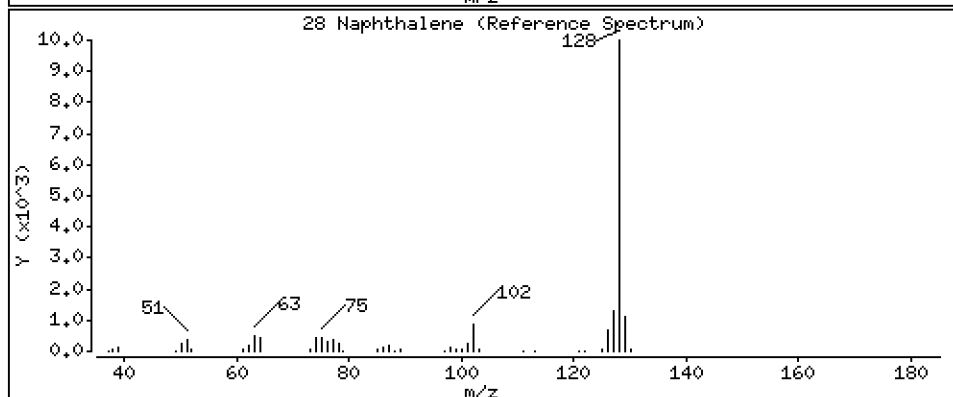
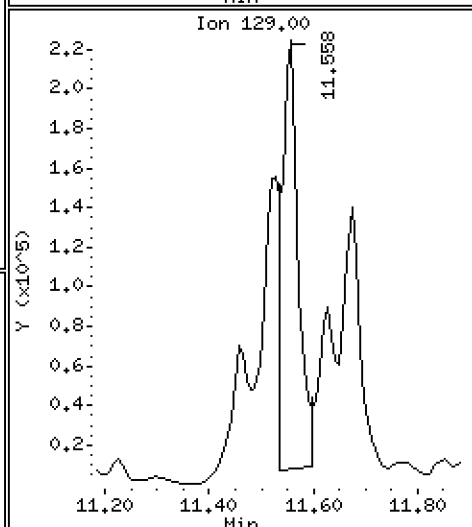
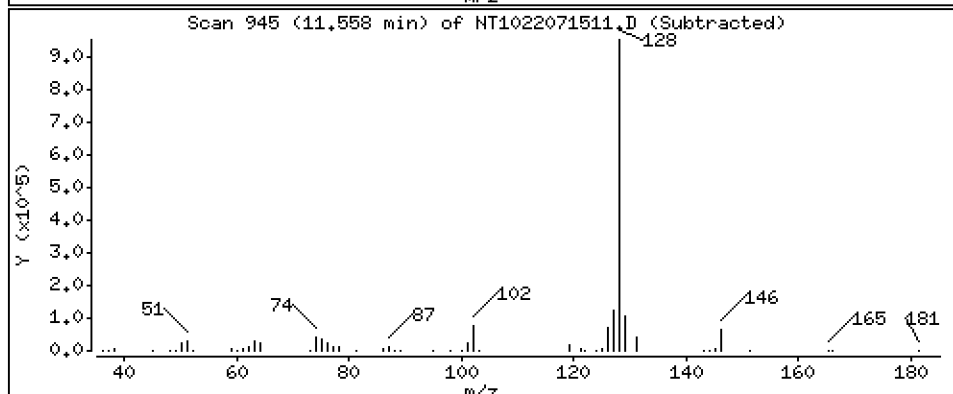
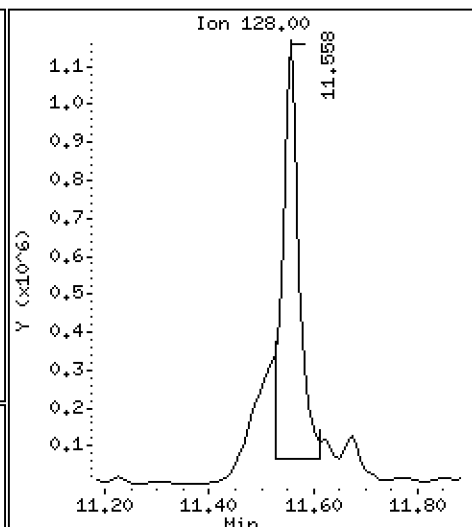
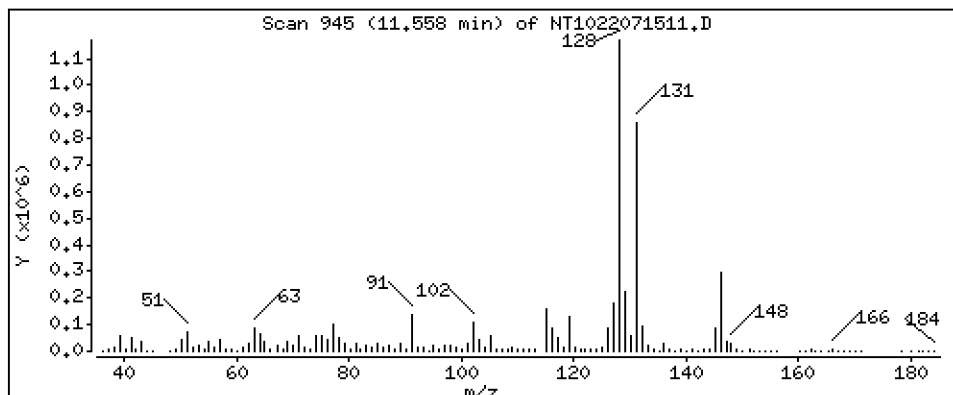
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 90,62 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04,5

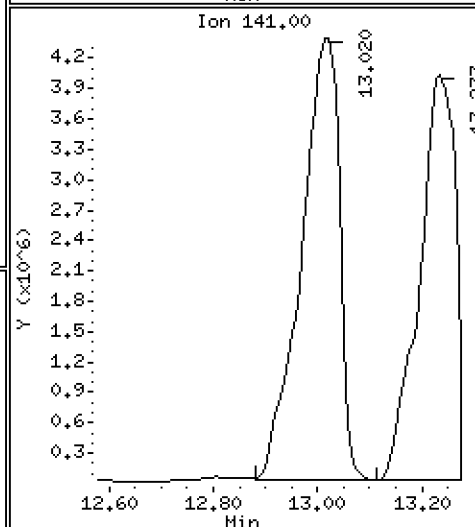
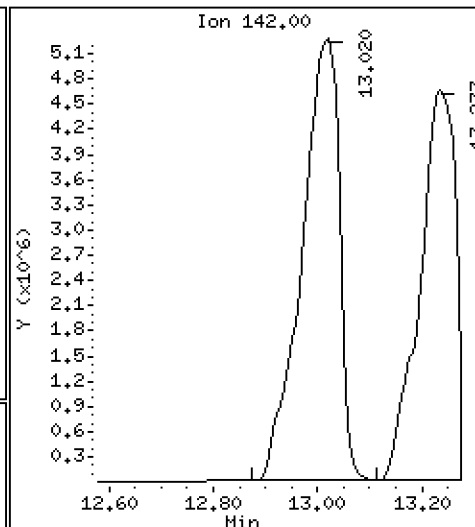
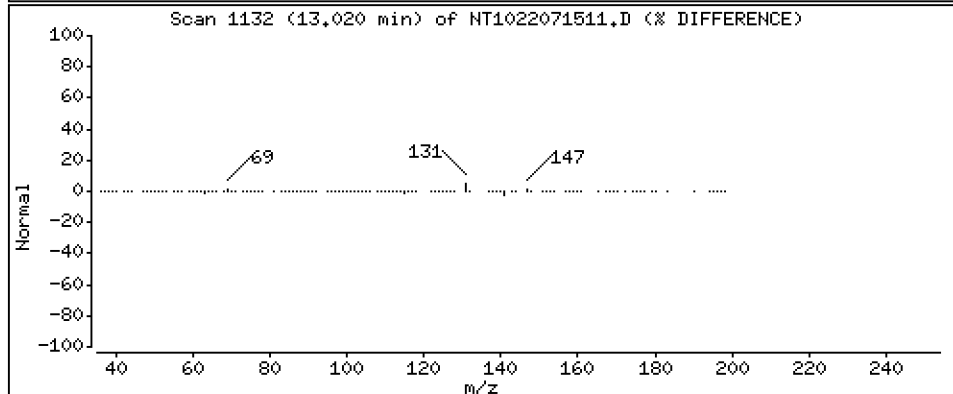
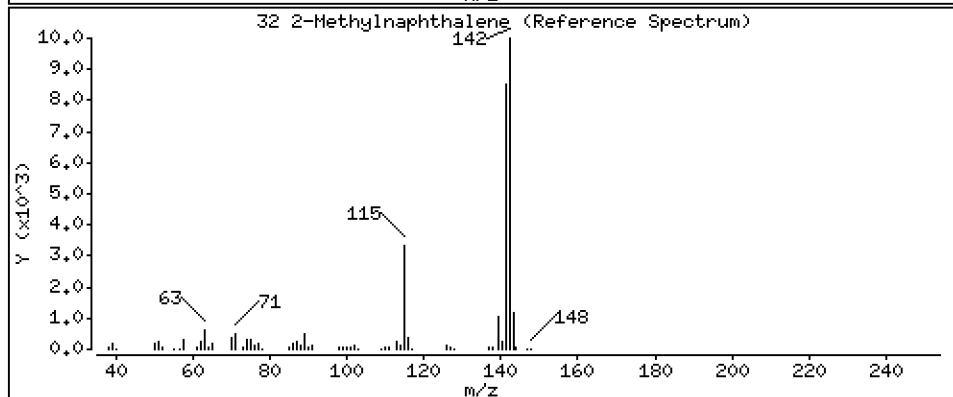
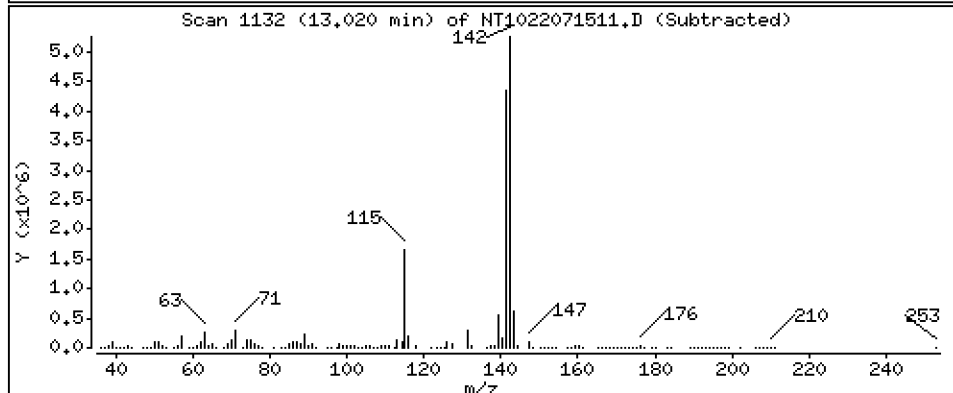
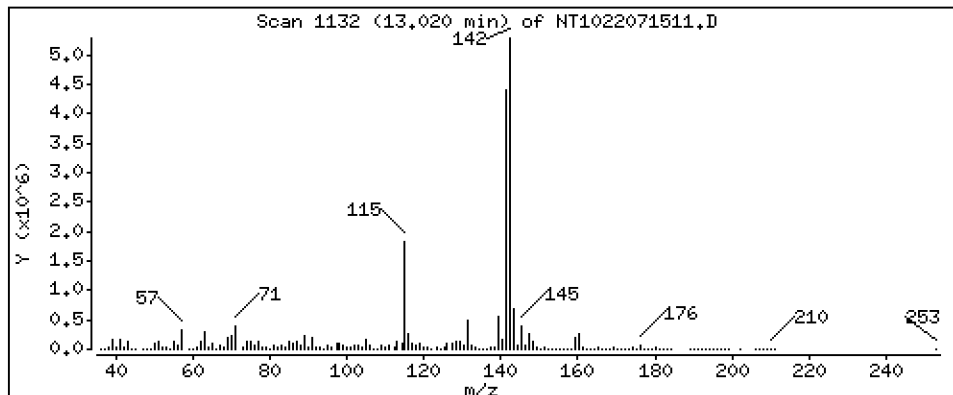
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 997,9 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04,5

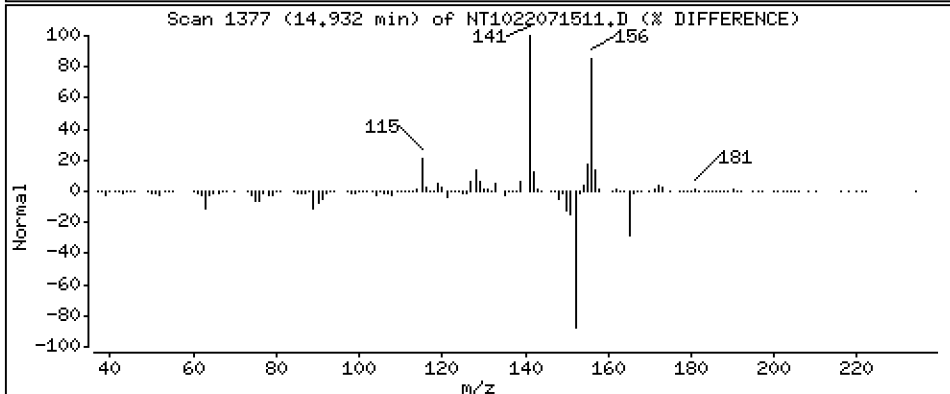
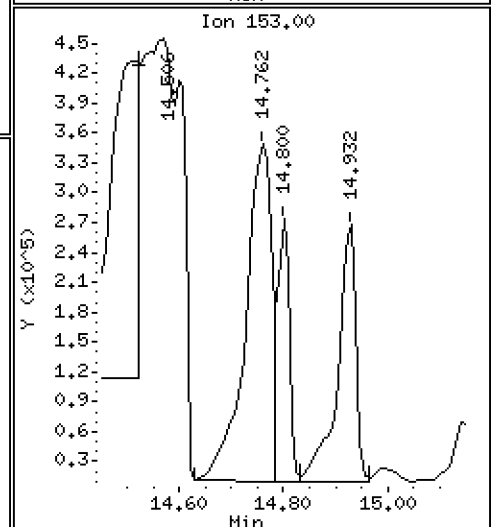
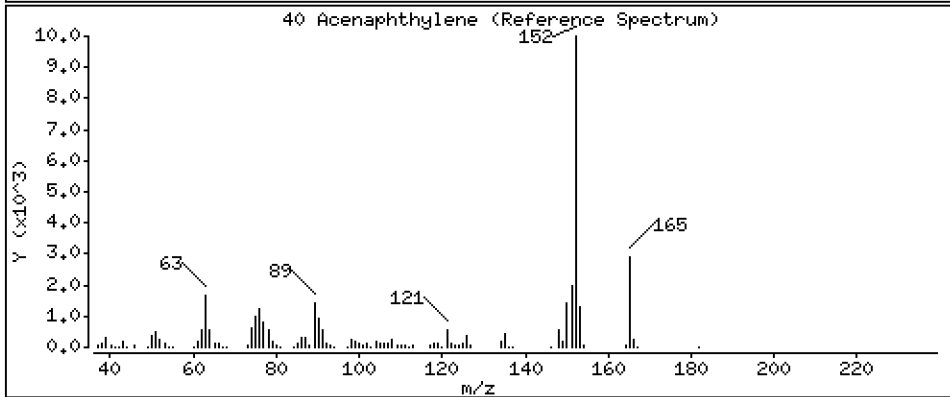
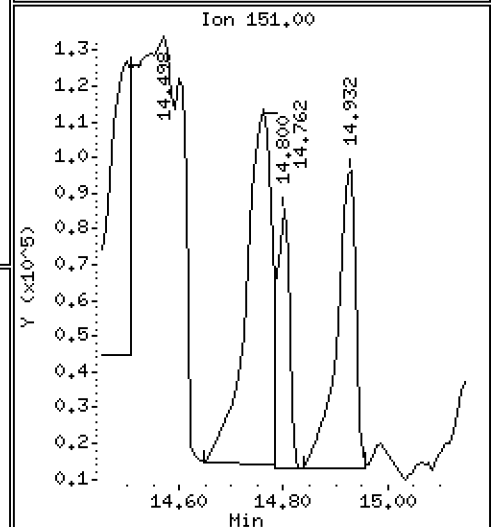
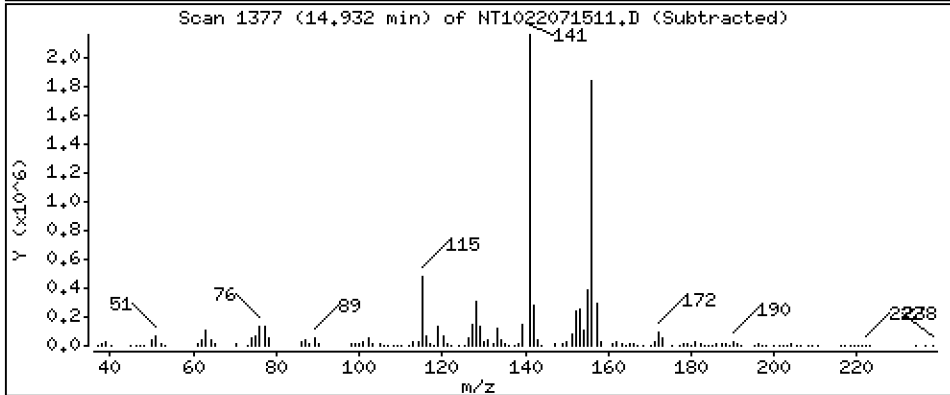
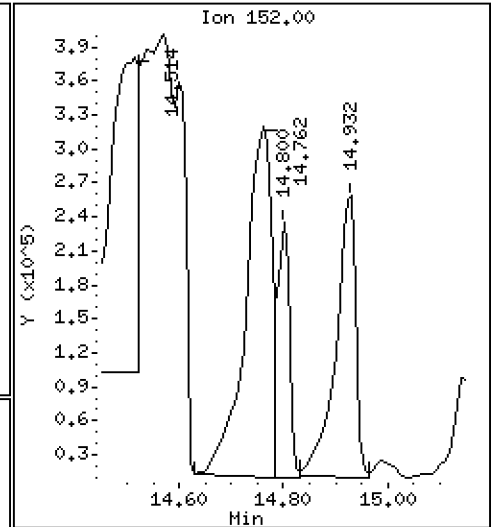
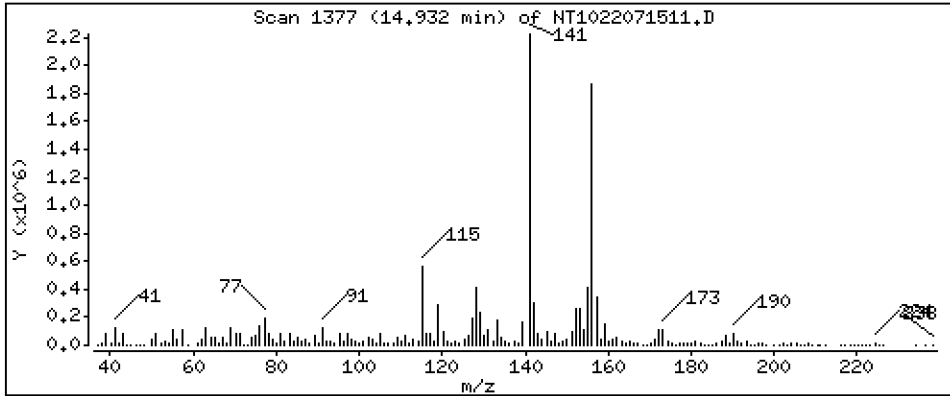
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 23,86 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 2200019-04,5

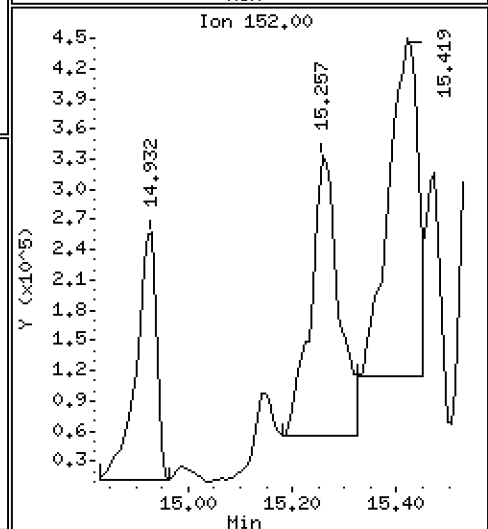
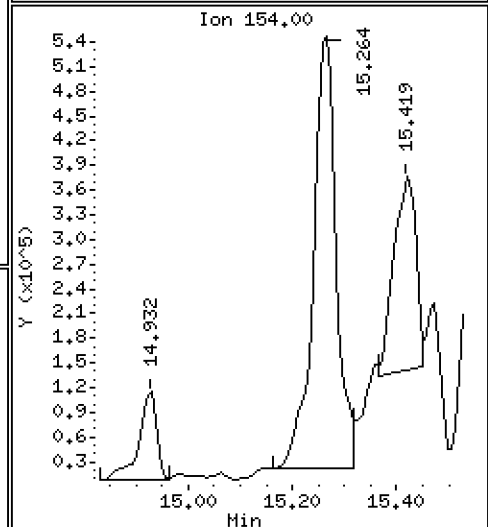
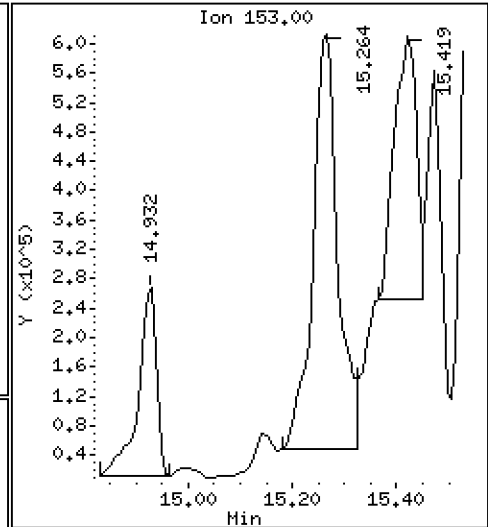
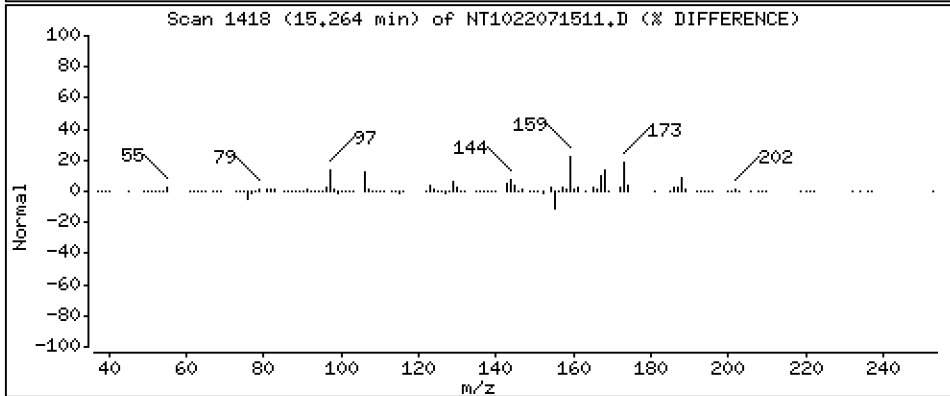
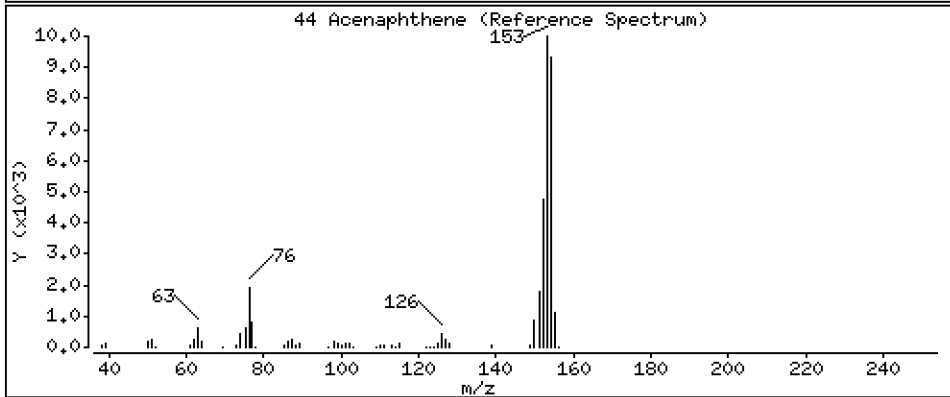
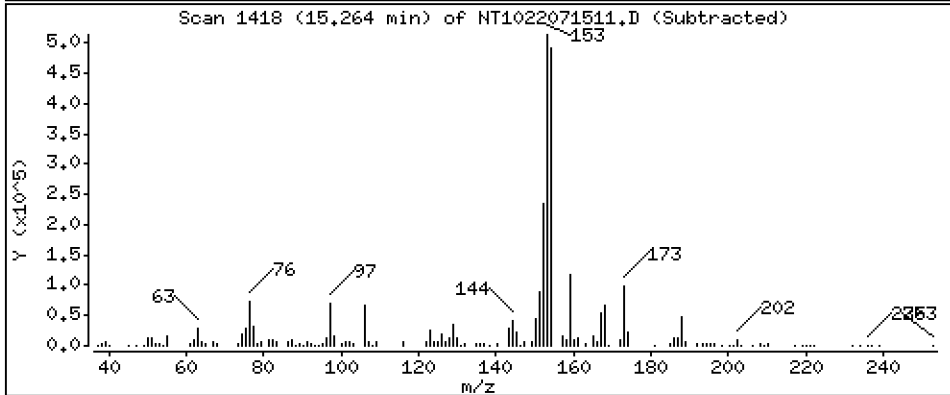
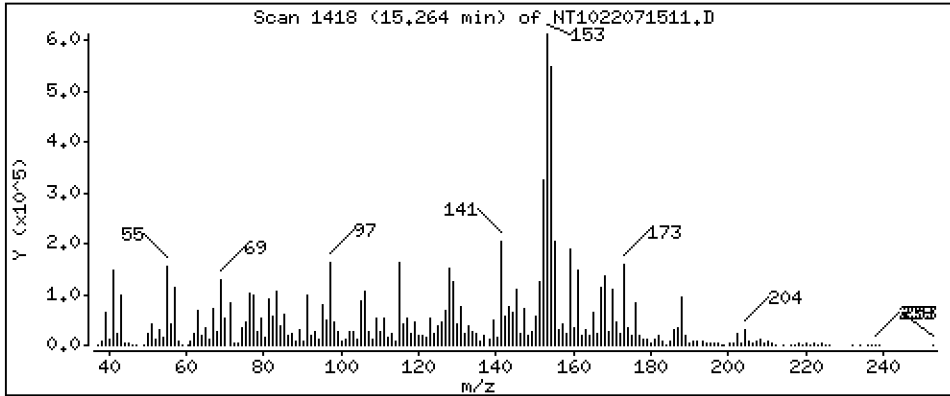
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 131,1 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 2200019-04,5

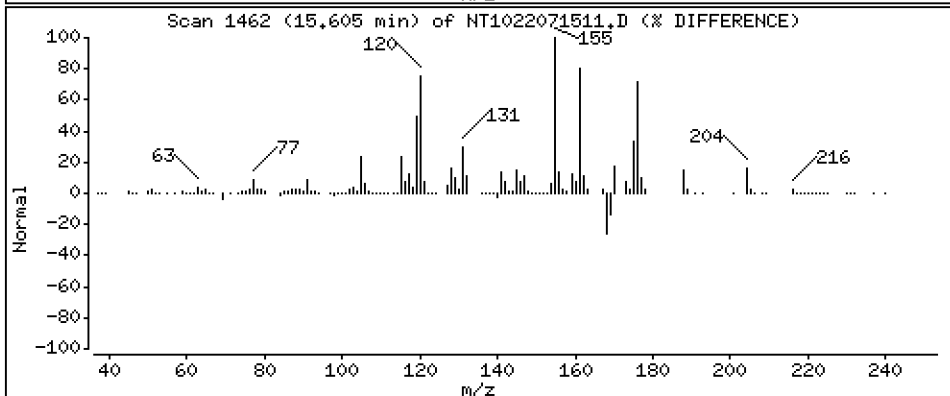
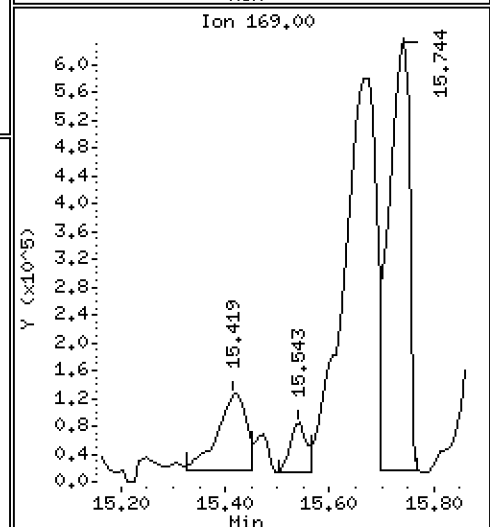
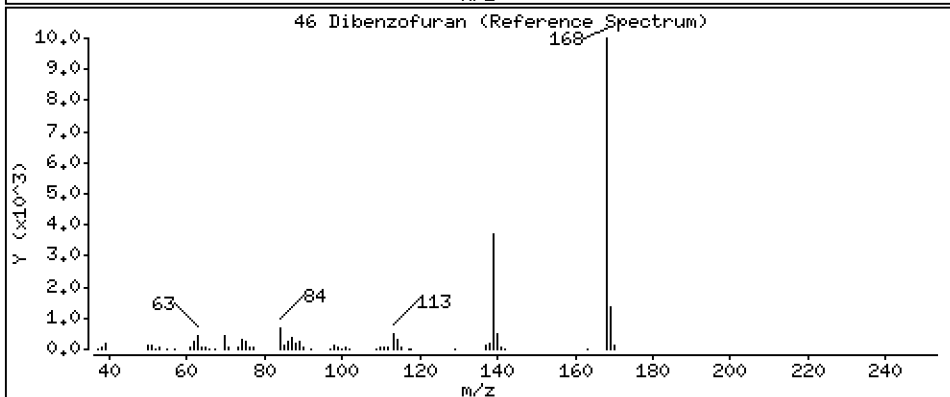
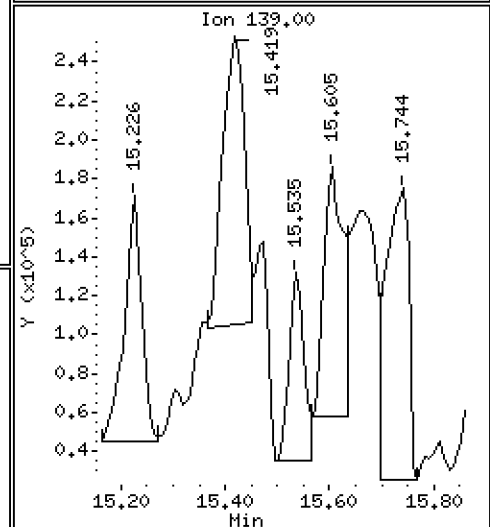
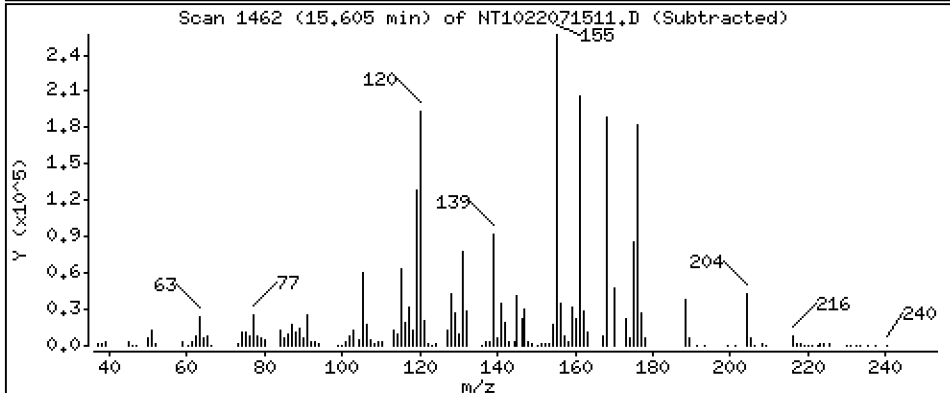
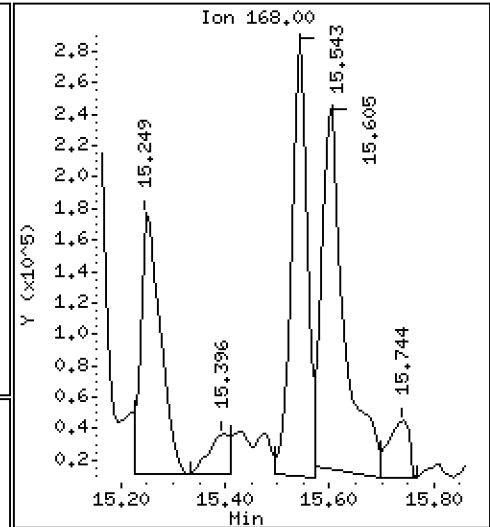
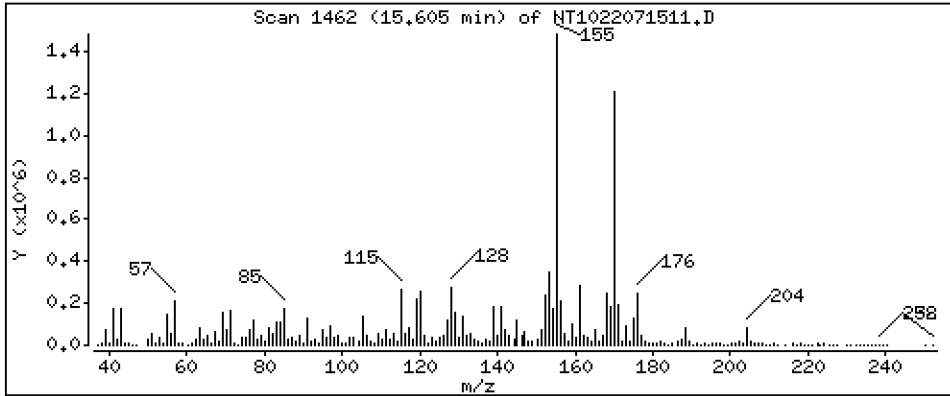
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 30,15 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 2200019-04,5

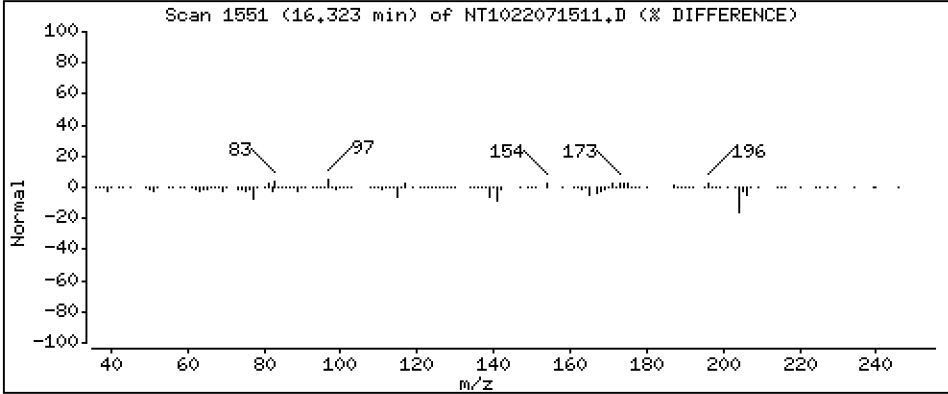
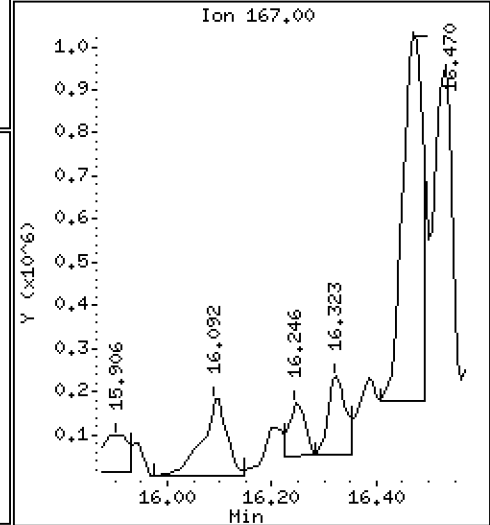
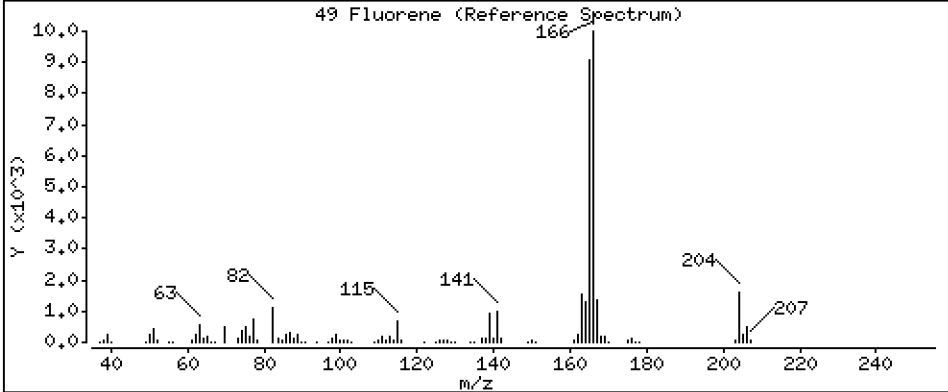
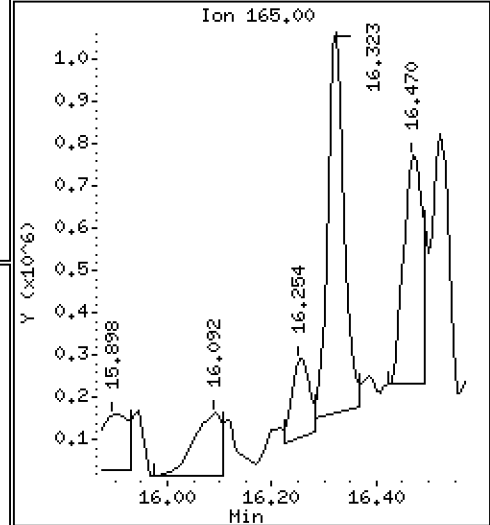
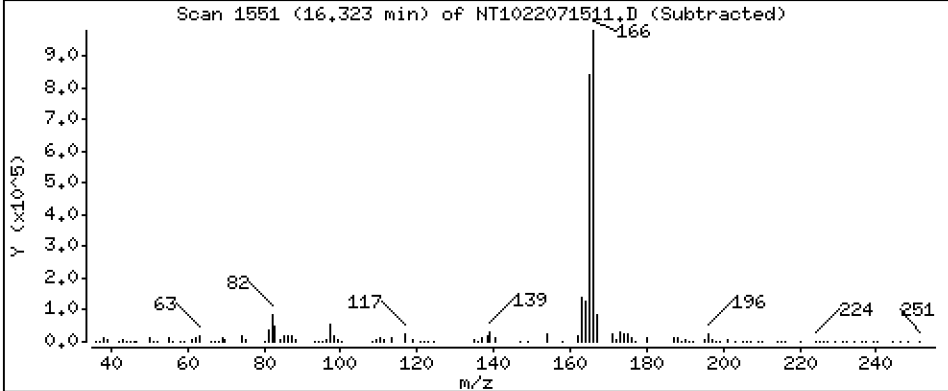
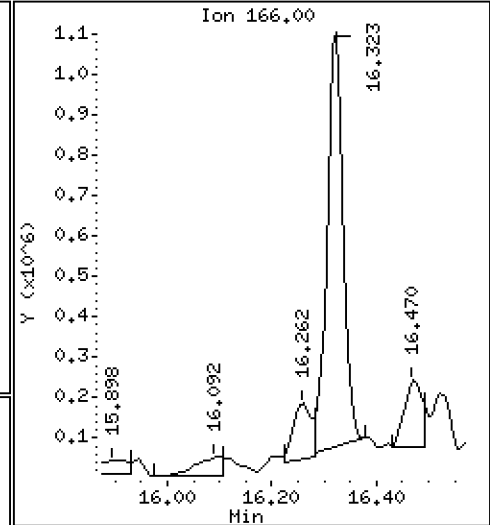
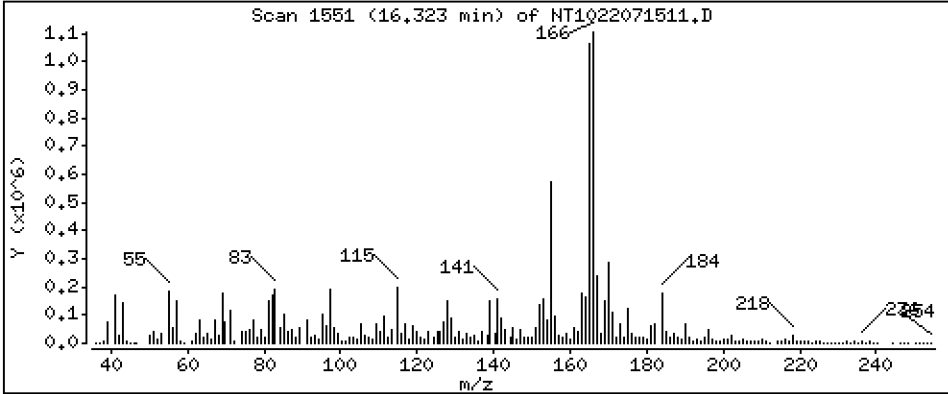
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 82,37 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 2200019-04,5

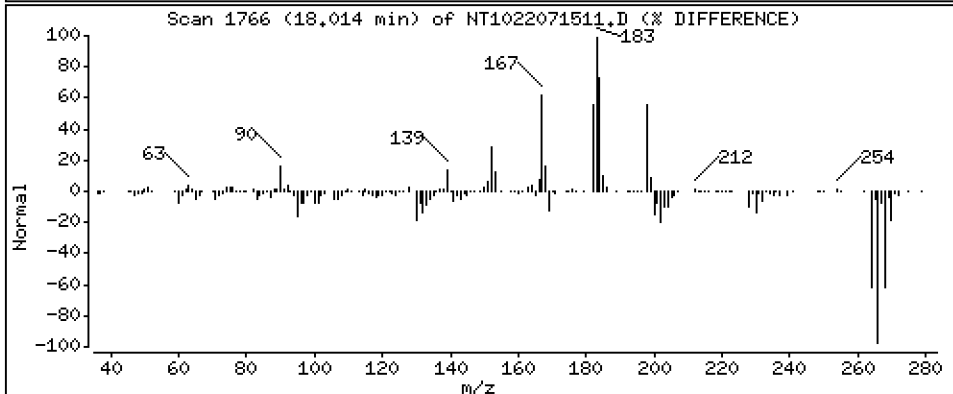
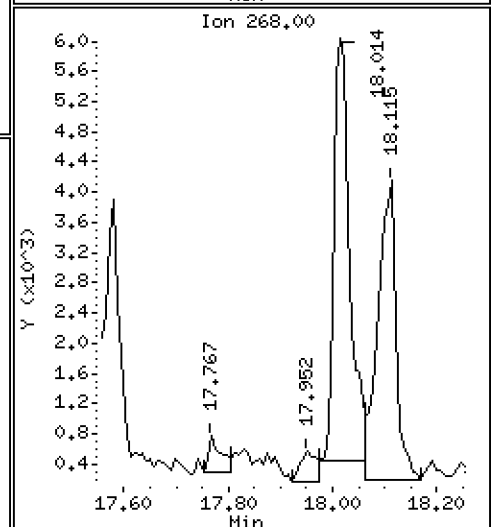
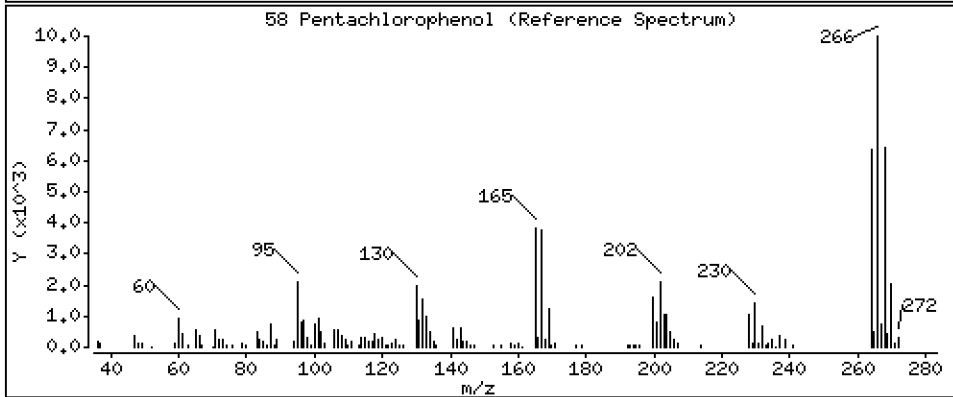
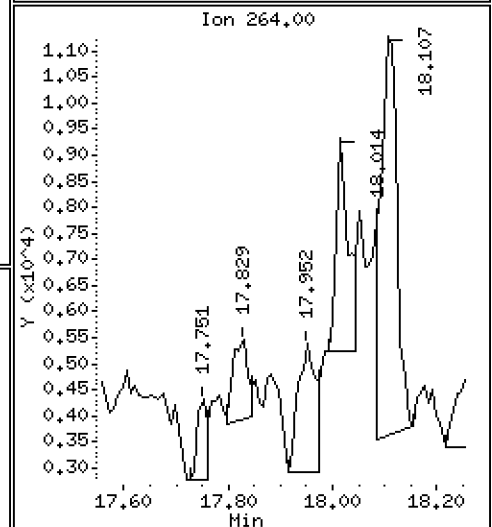
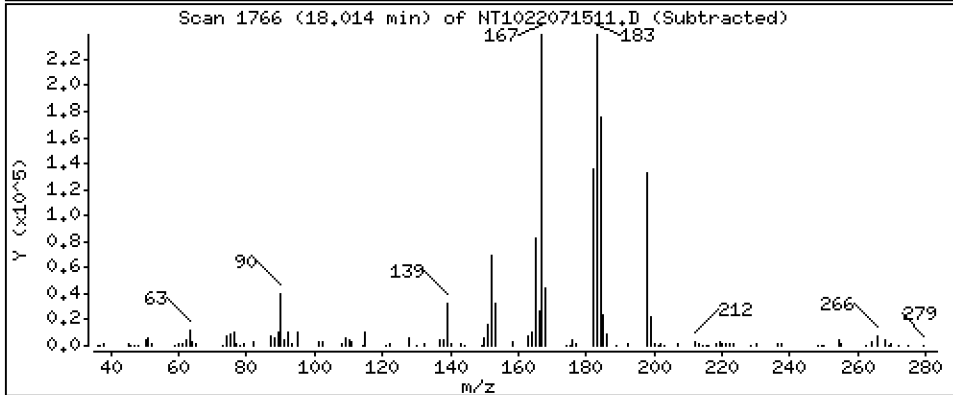
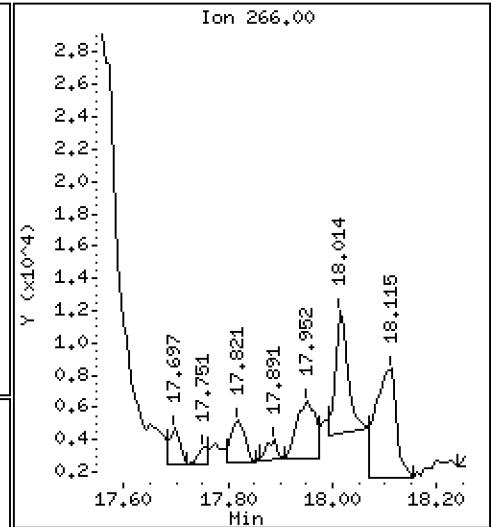
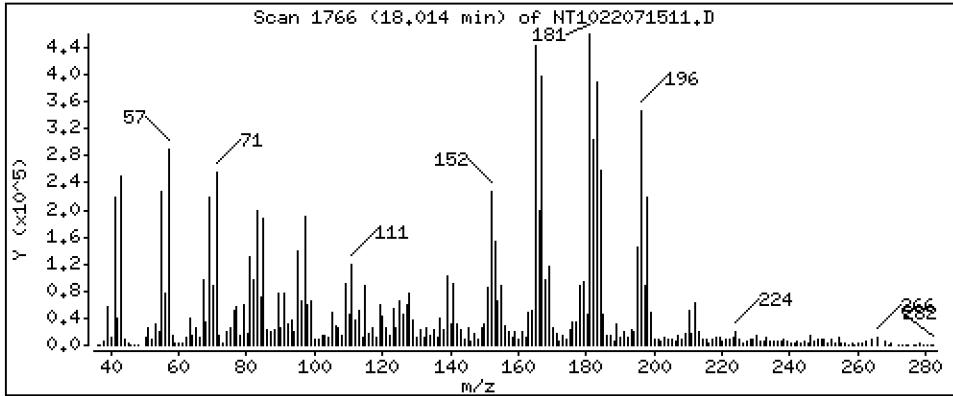
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 16,12 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04,5

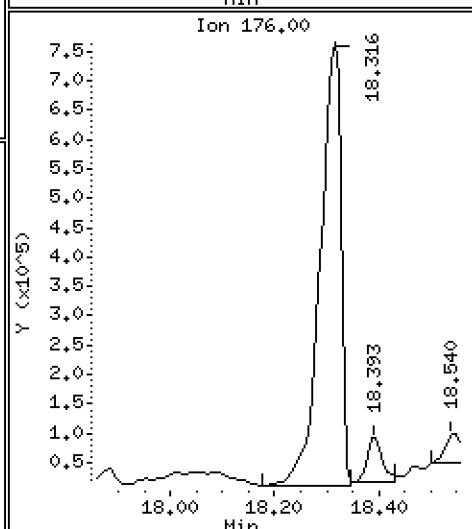
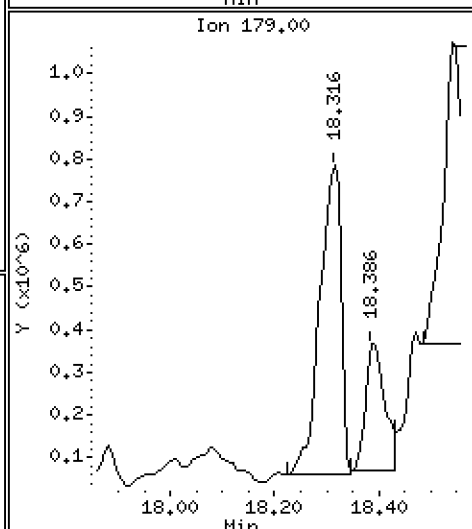
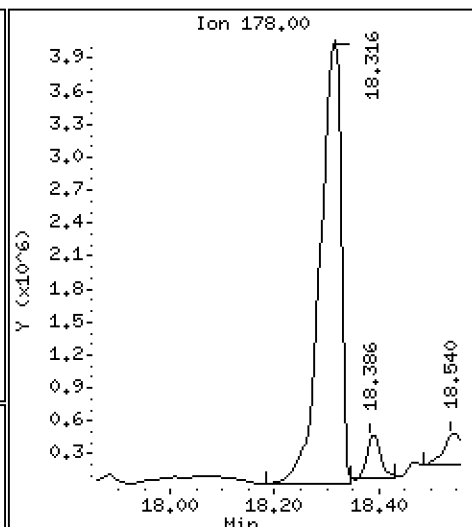
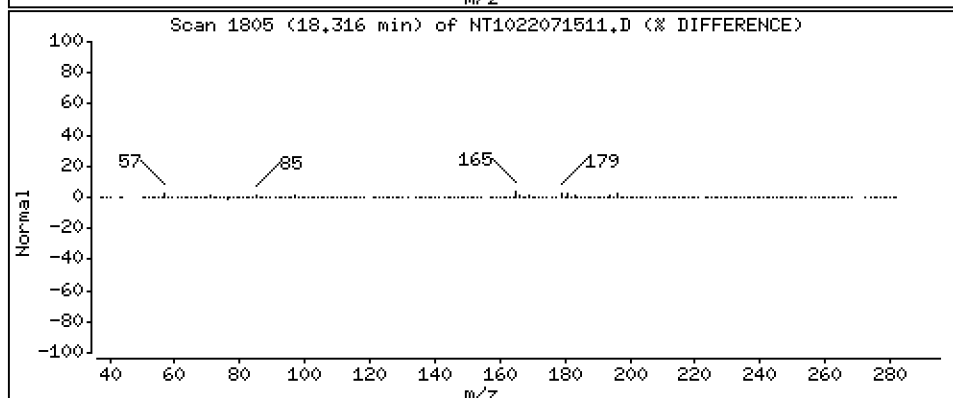
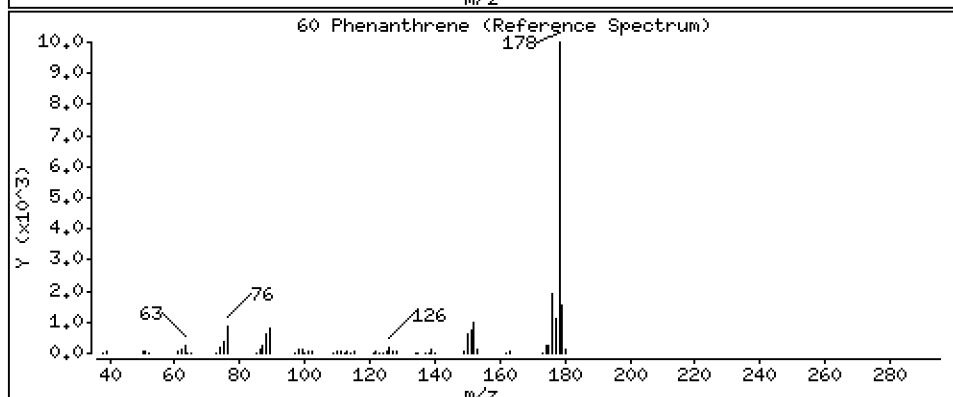
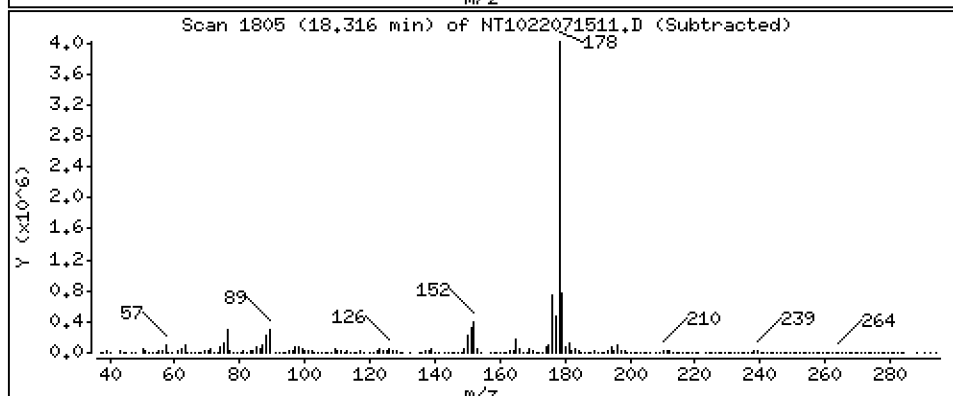
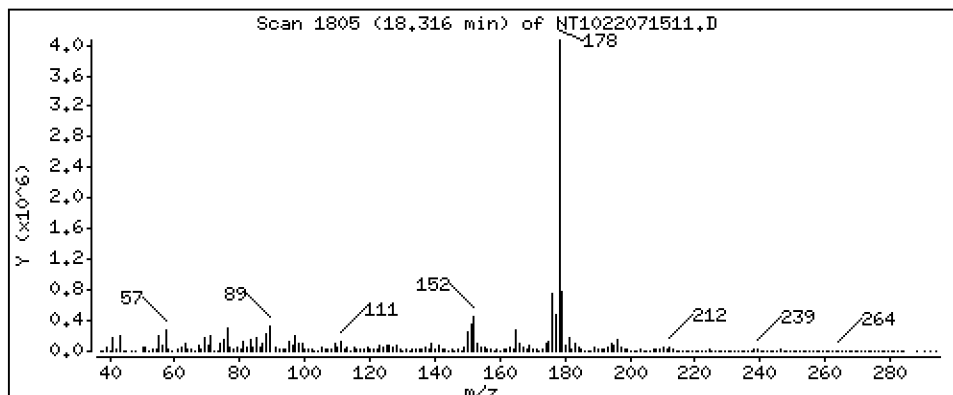
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 800,8 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04,5

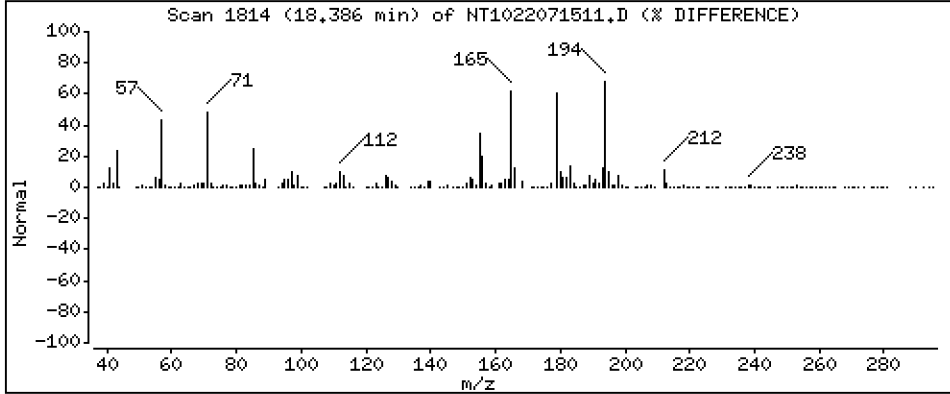
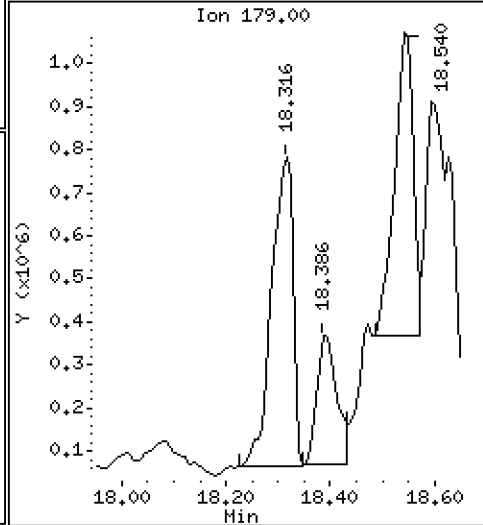
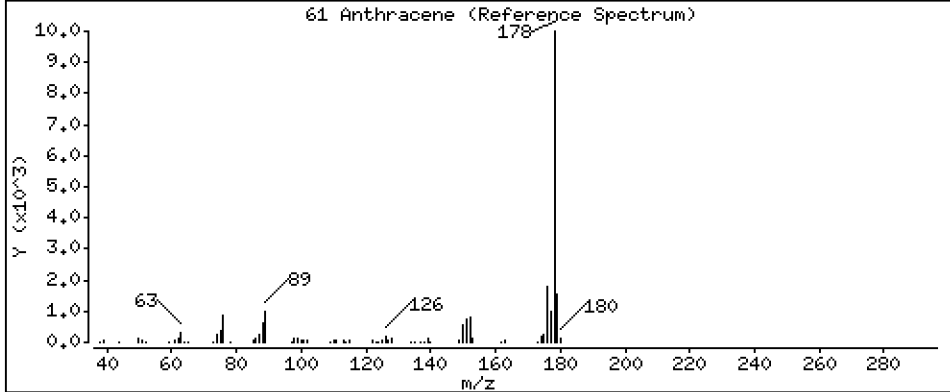
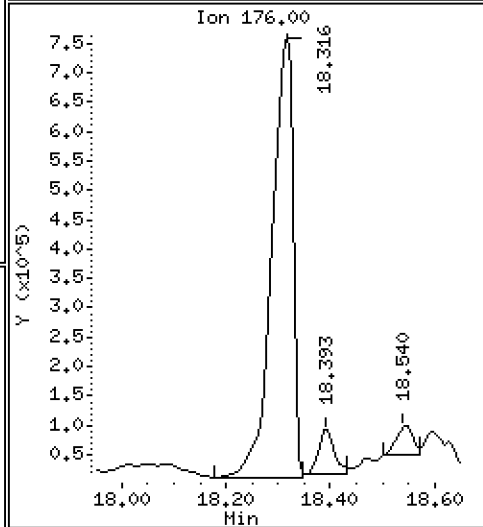
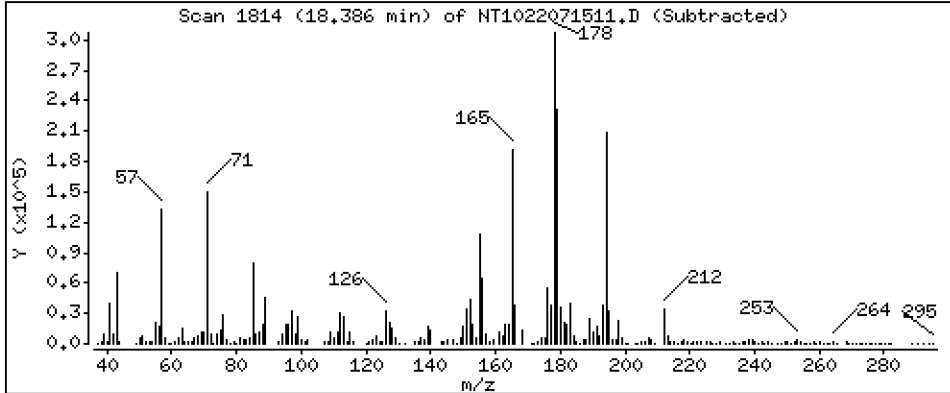
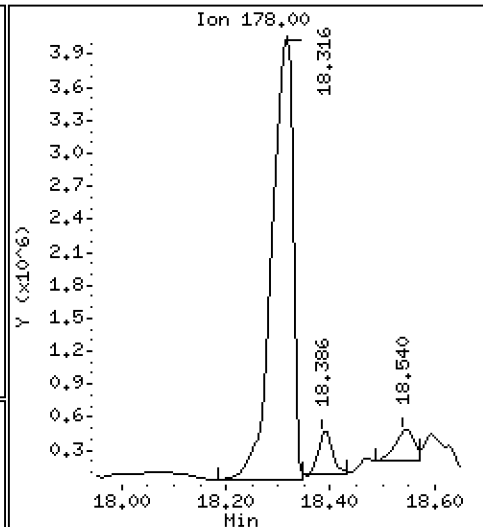
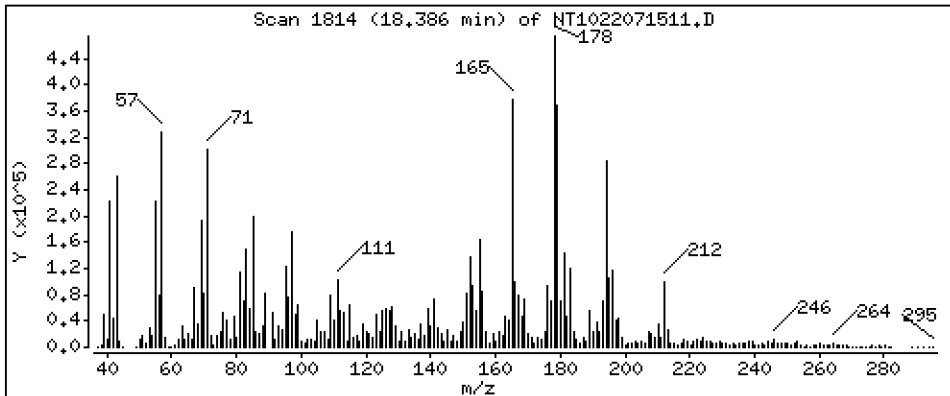
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 50,98 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 2200019-04,5

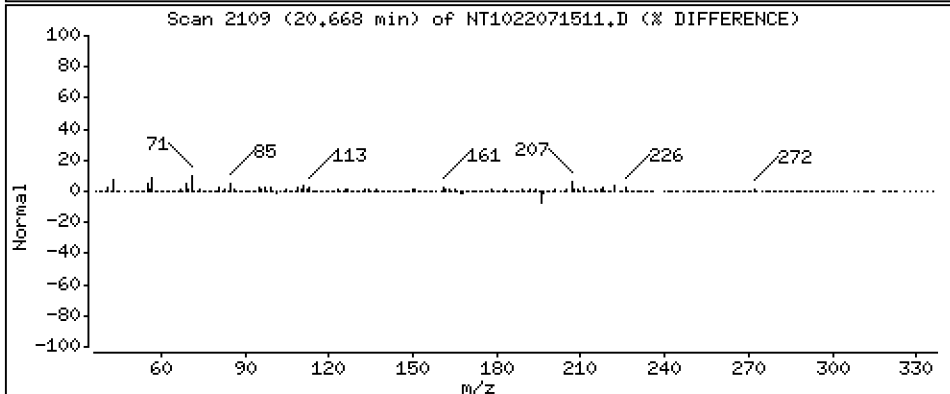
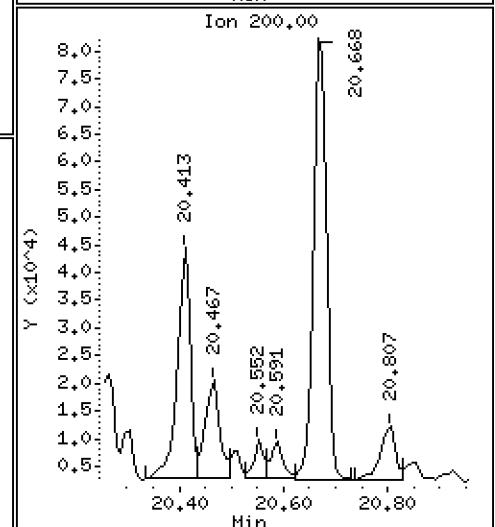
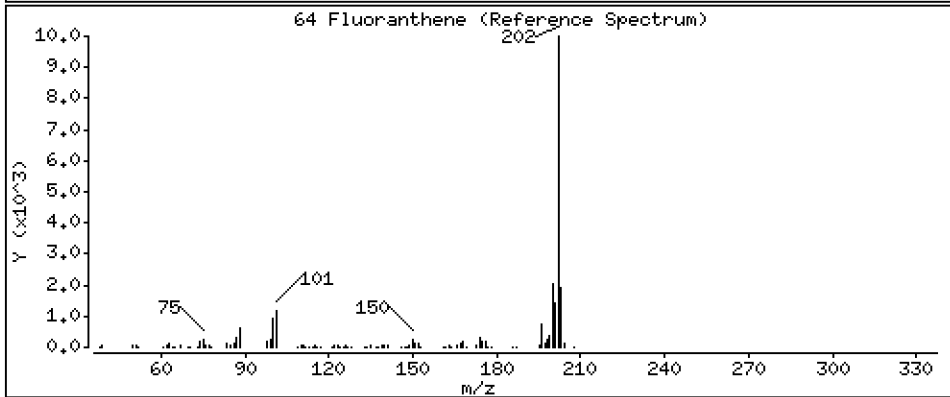
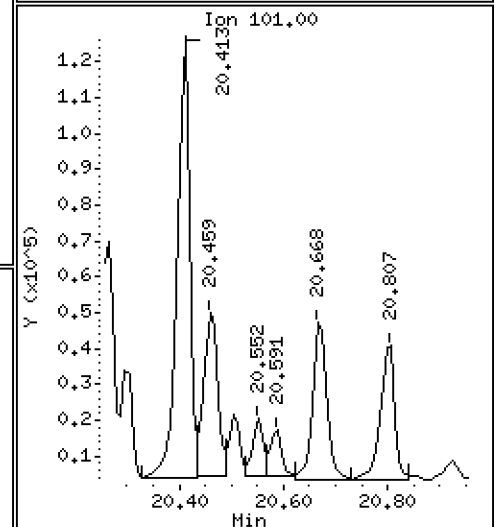
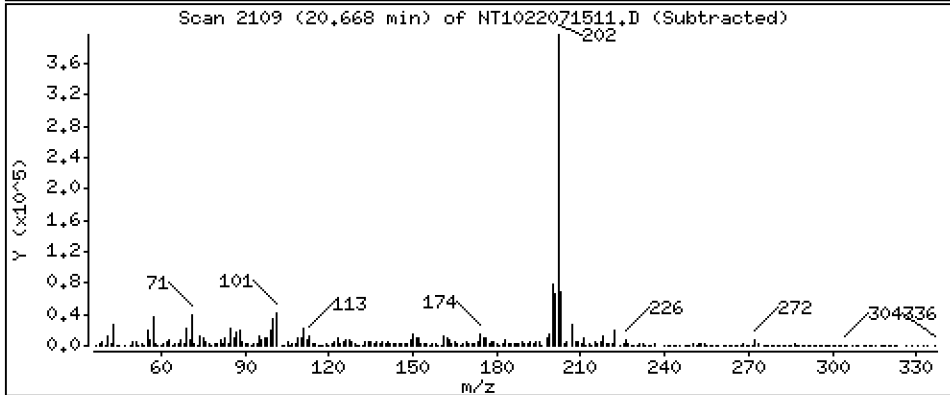
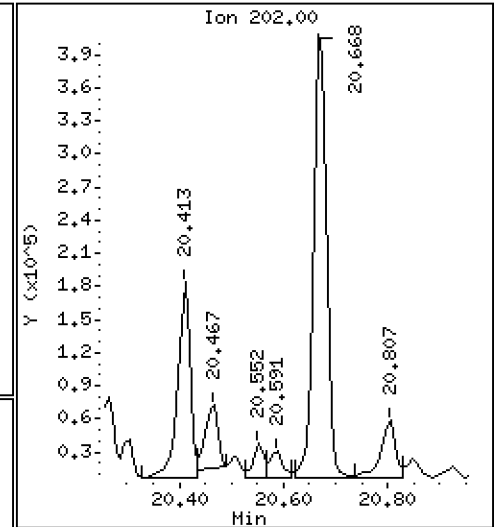
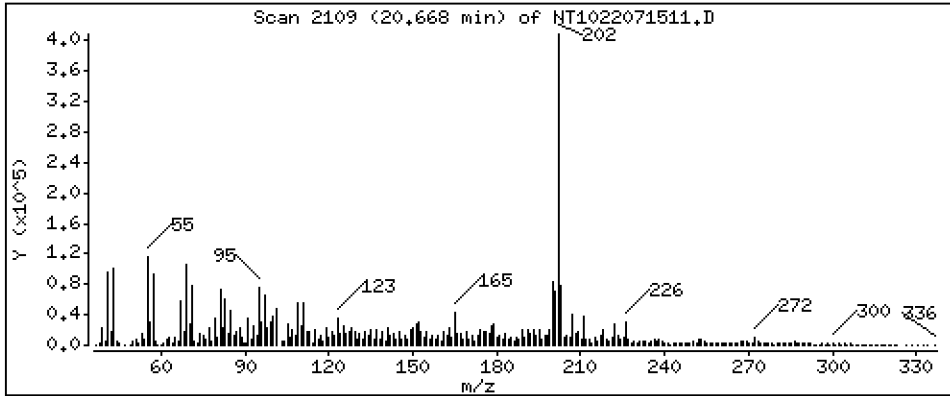
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 33,09 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04,5

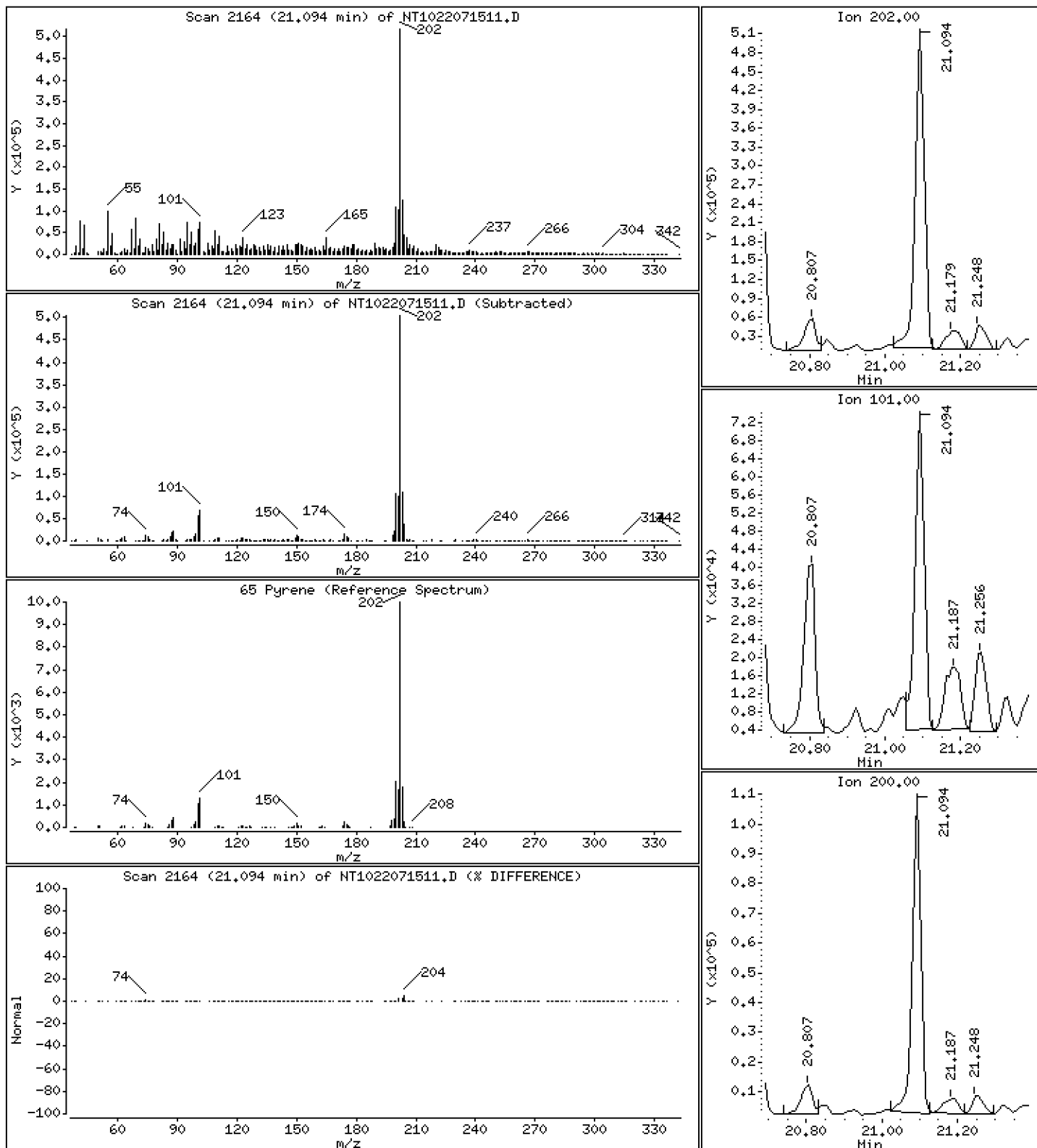
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 38,50 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04,5

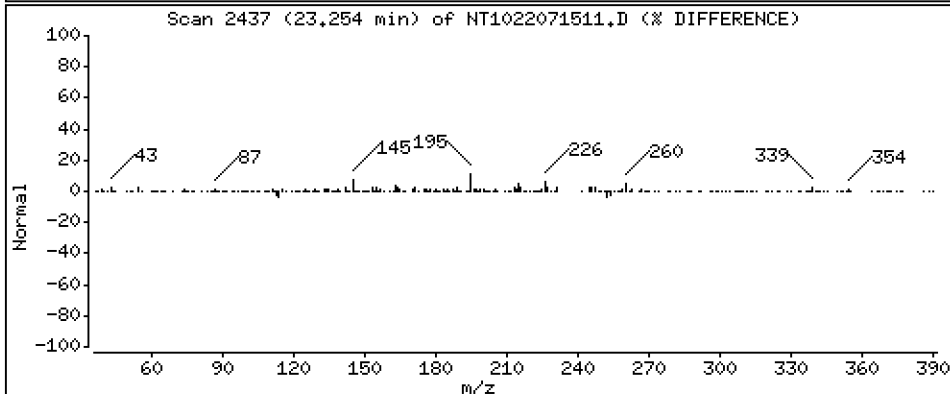
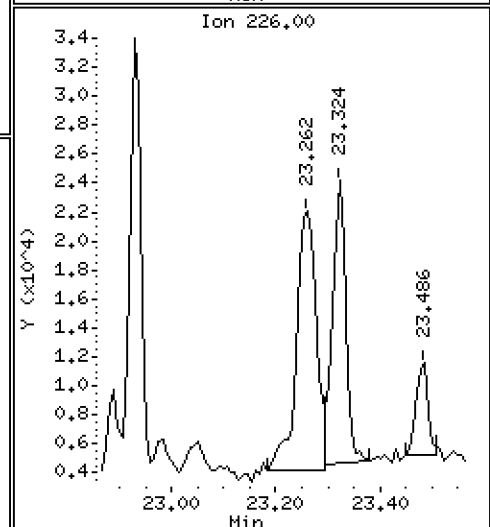
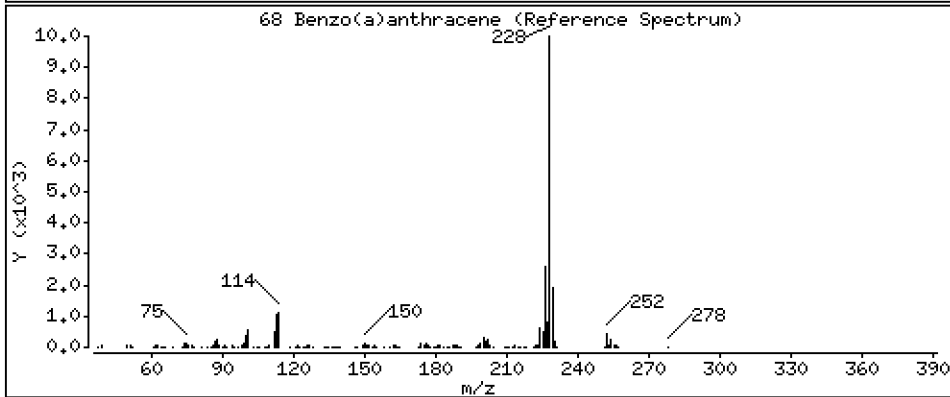
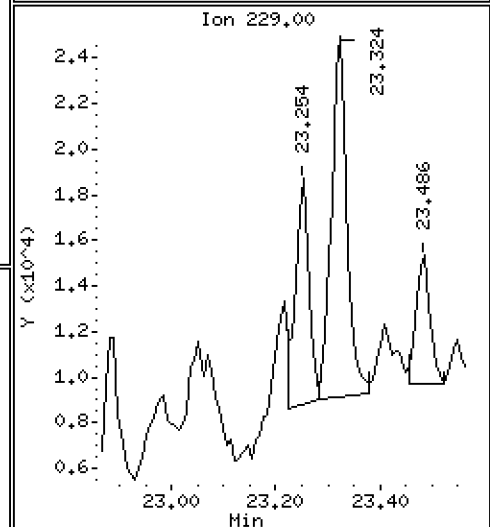
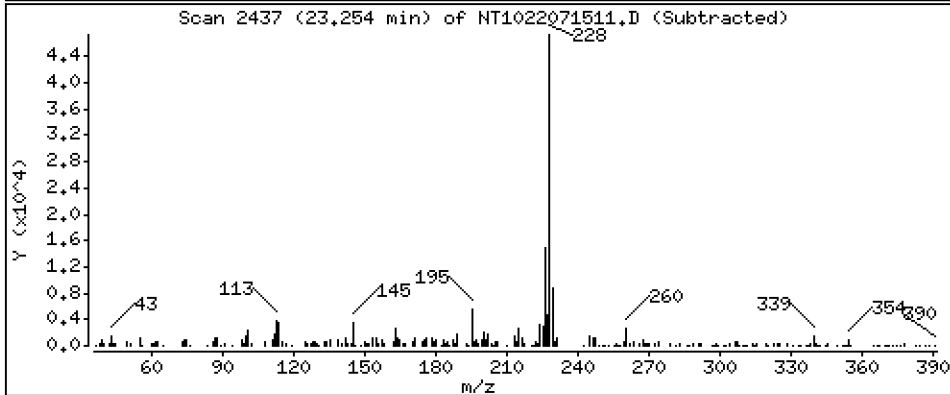
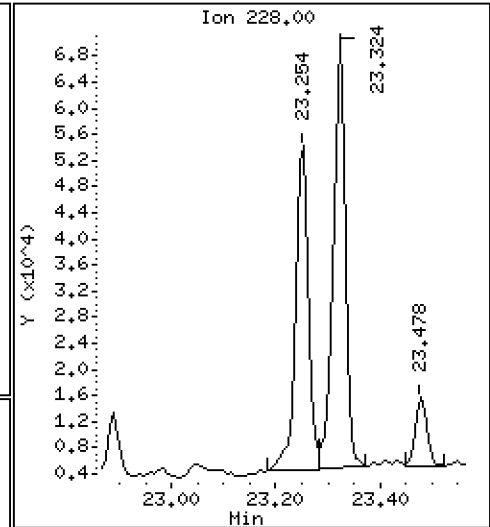
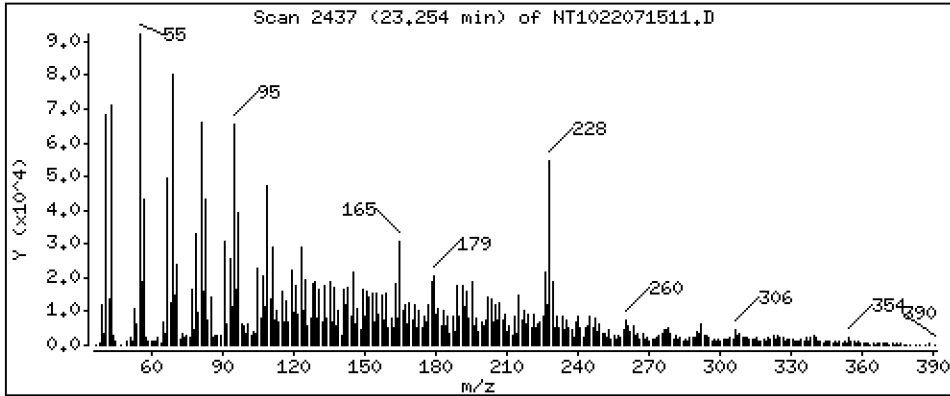
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 7,846 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 2200019-04,5

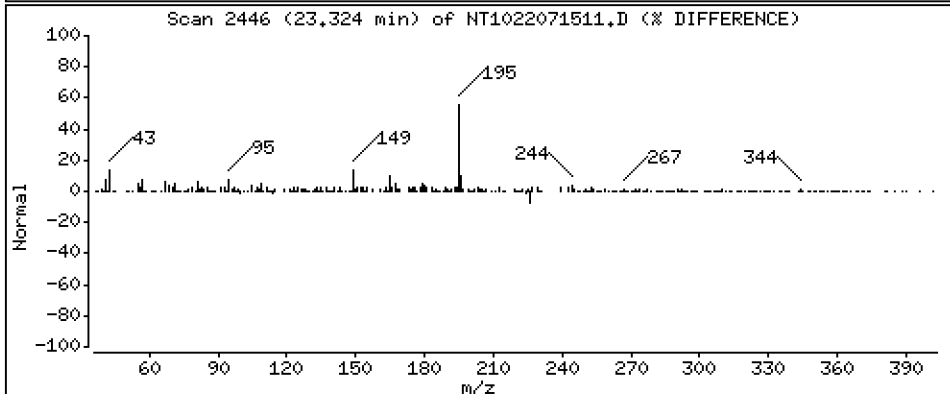
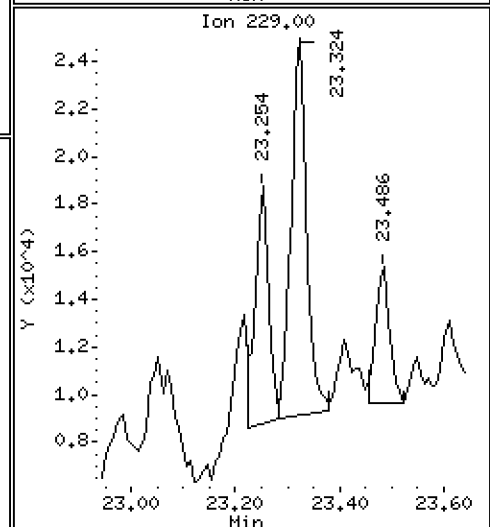
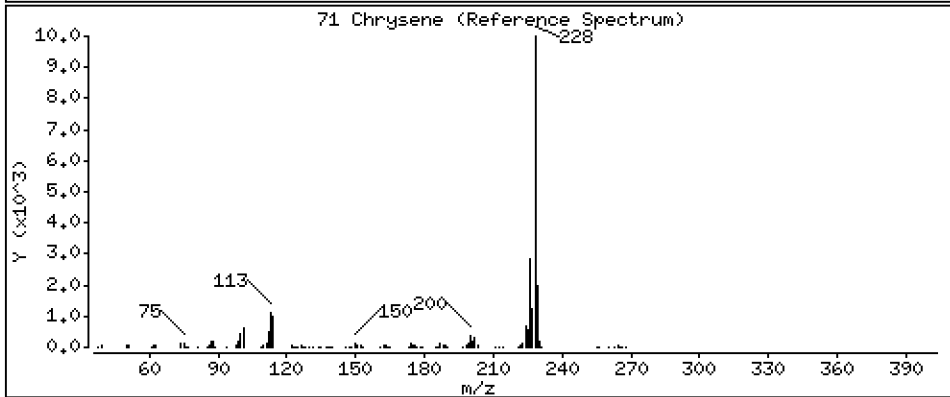
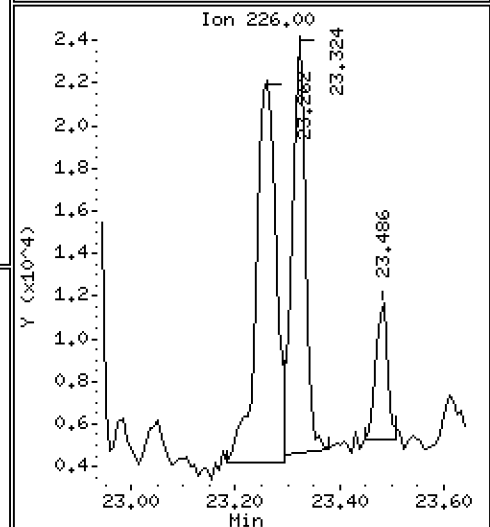
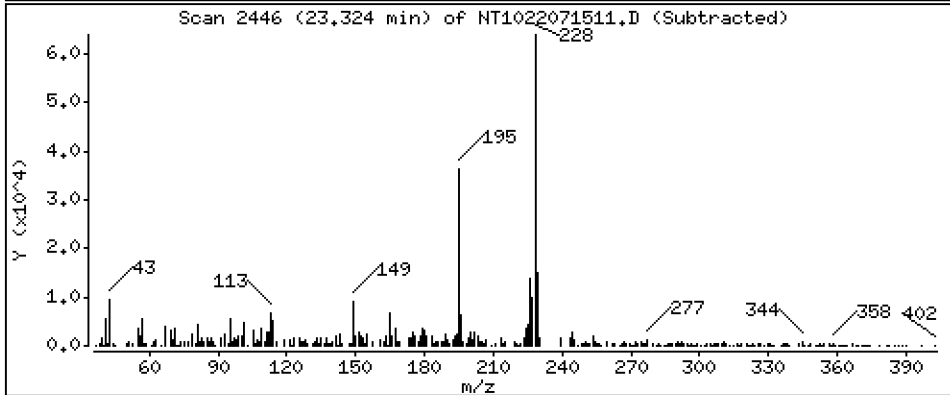
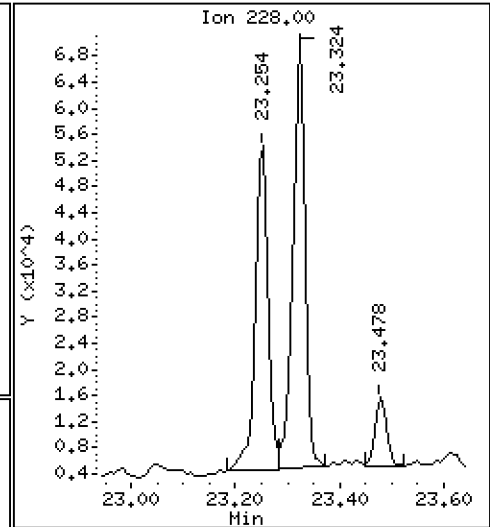
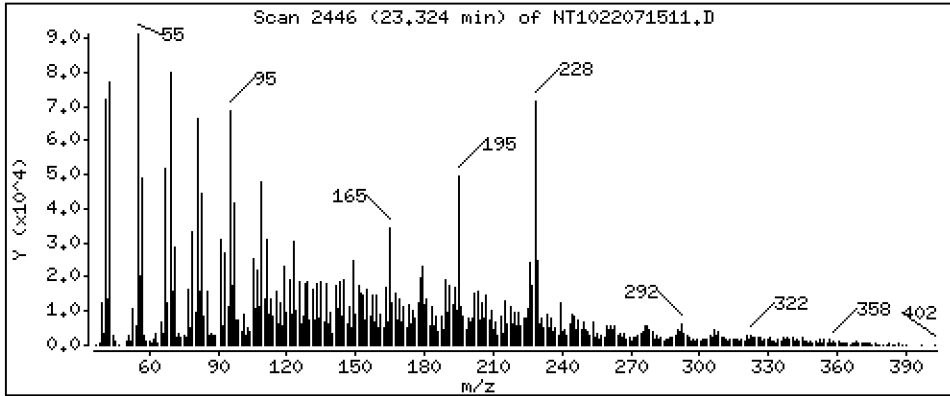
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 14,06 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04,5

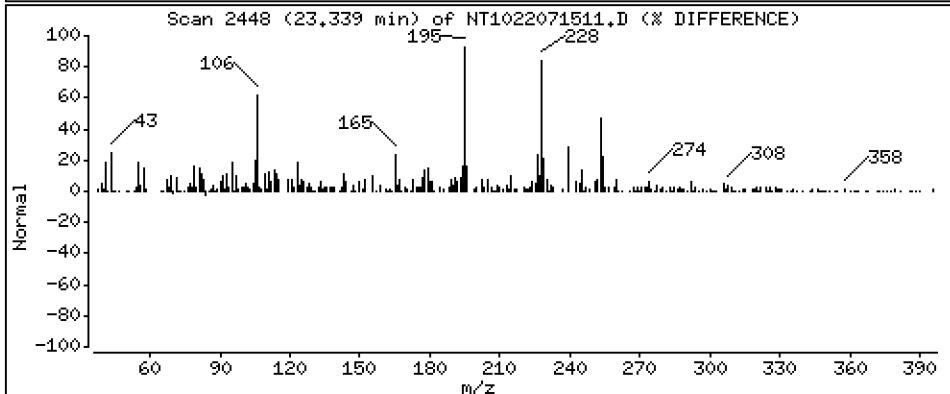
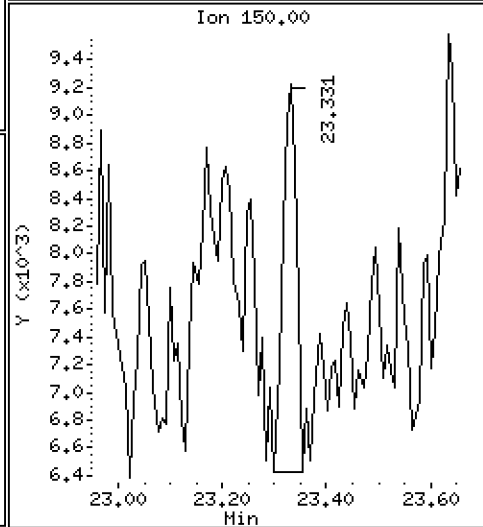
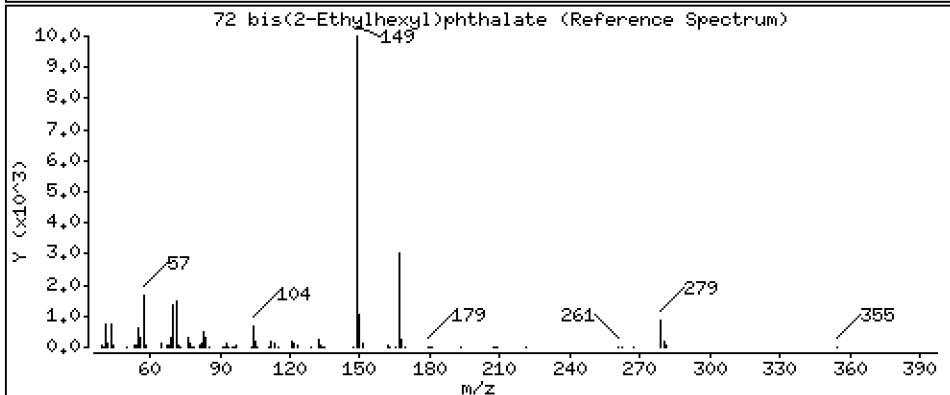
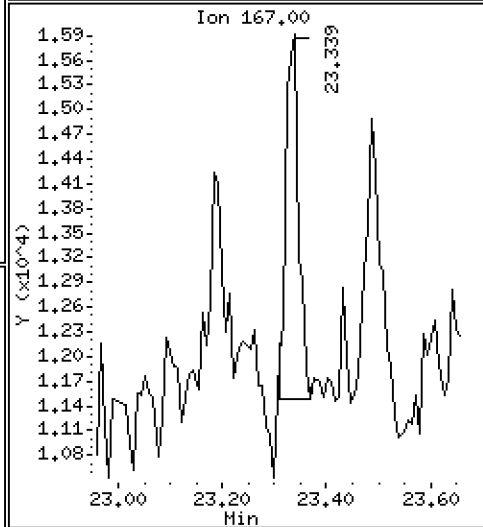
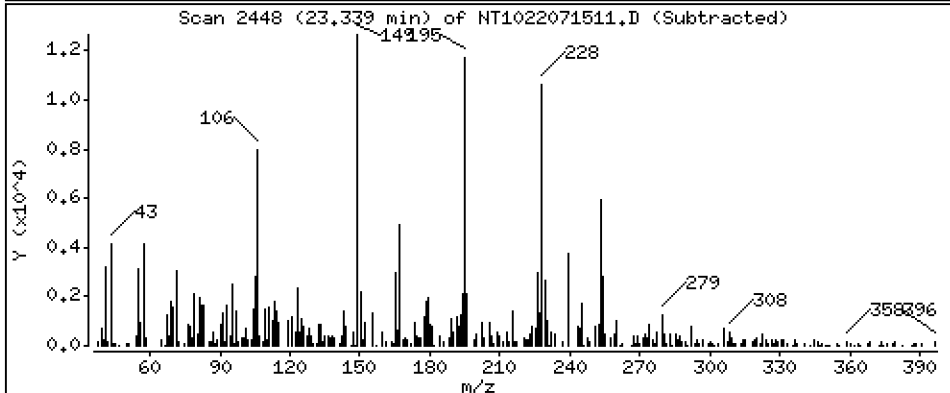
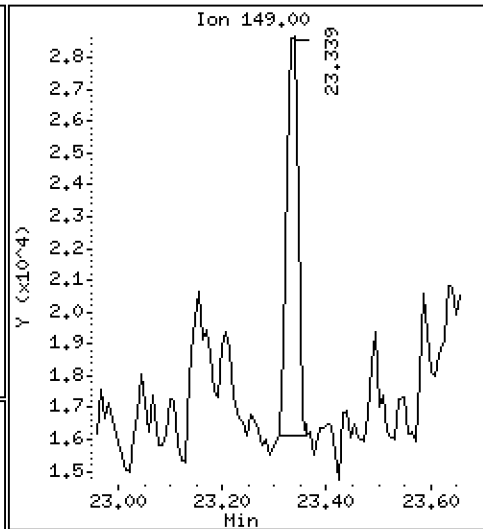
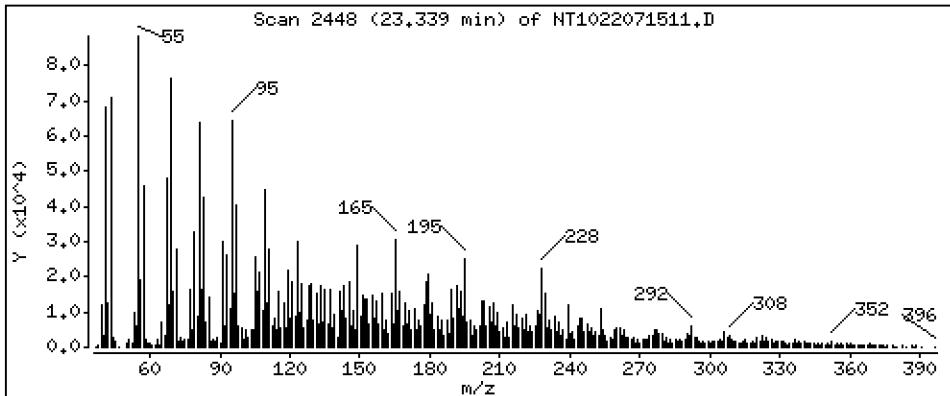
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 3,297 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04,5

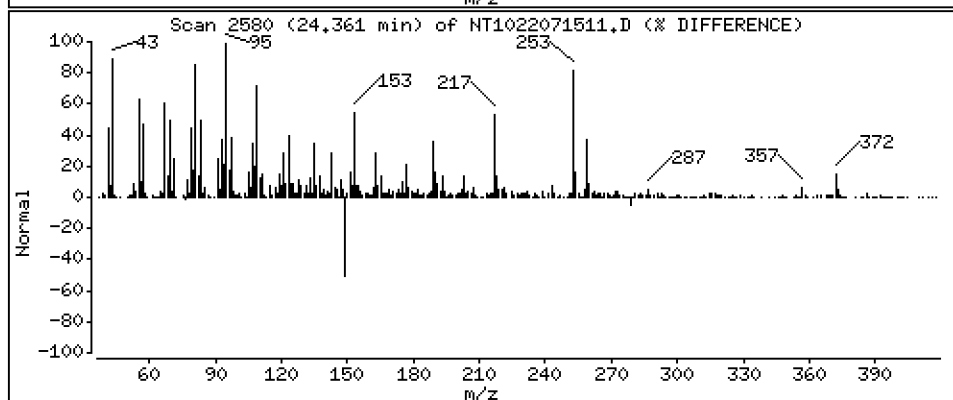
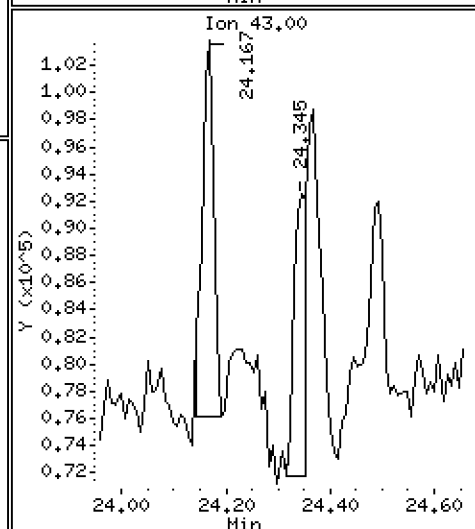
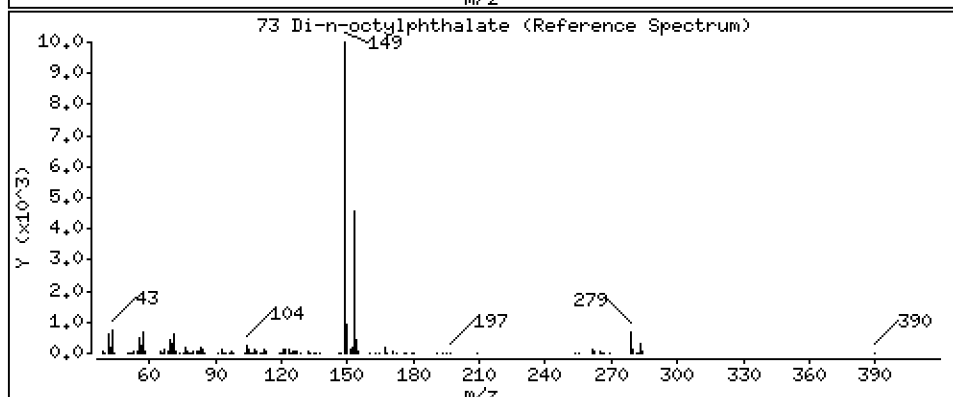
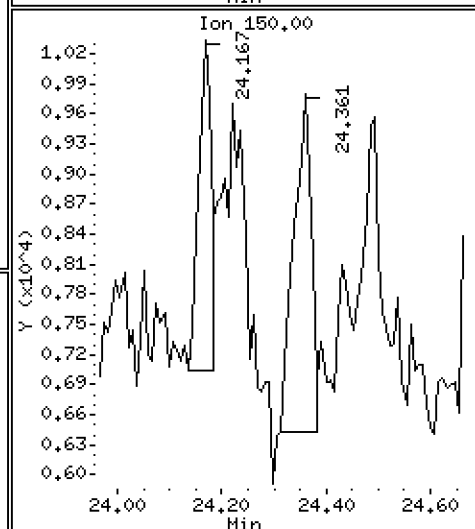
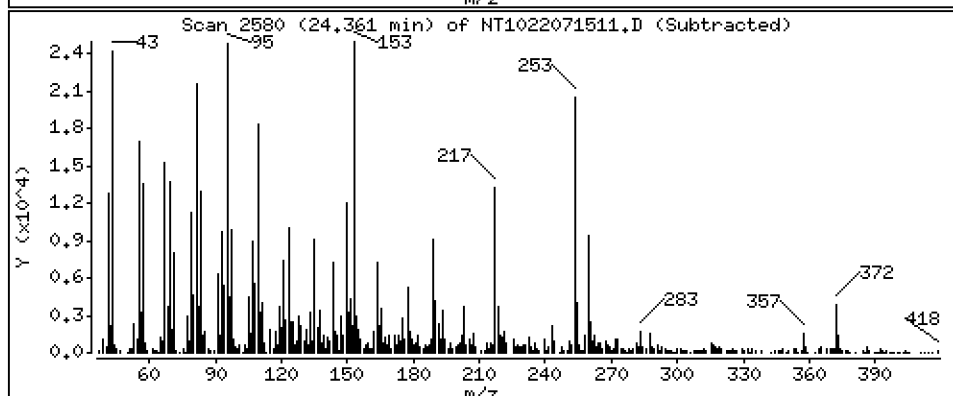
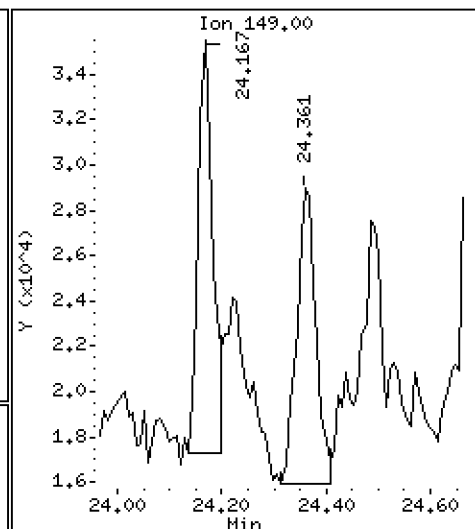
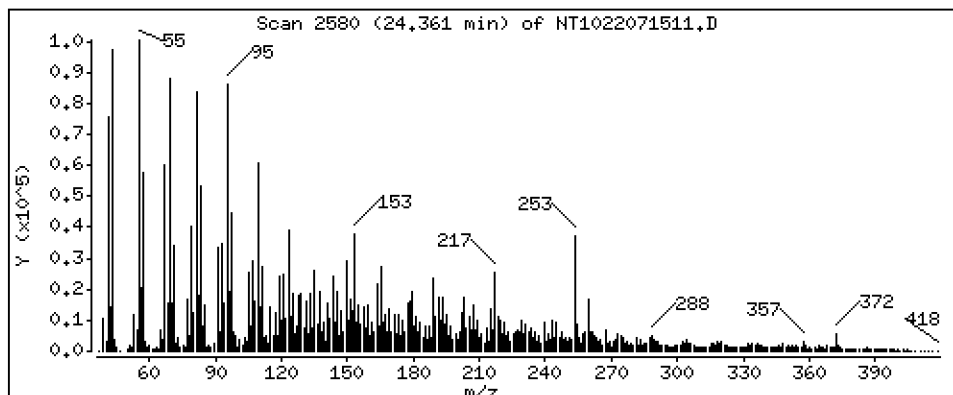
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 2,703 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04,5

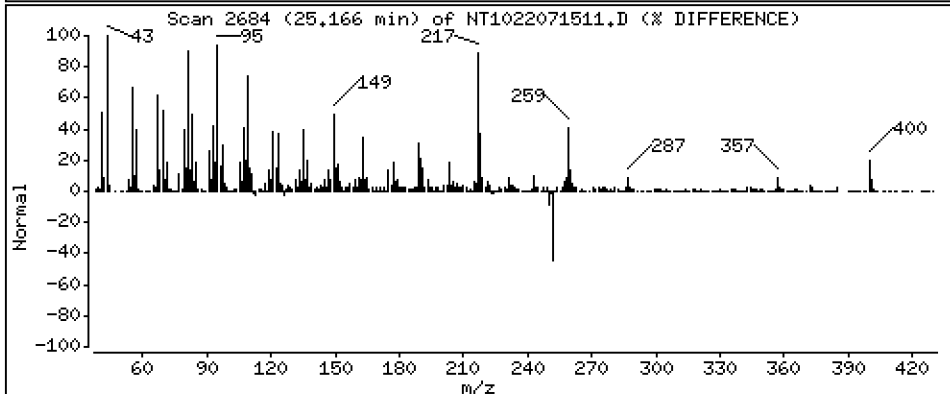
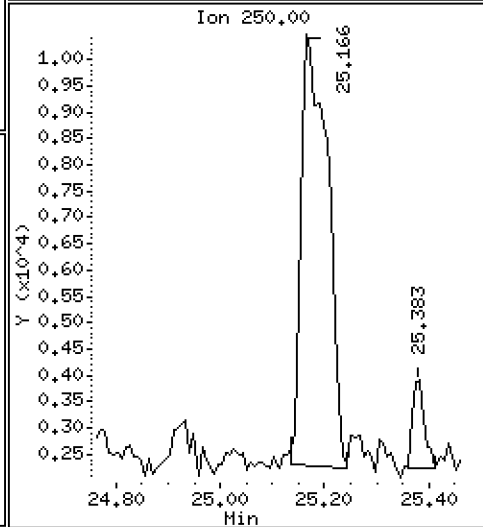
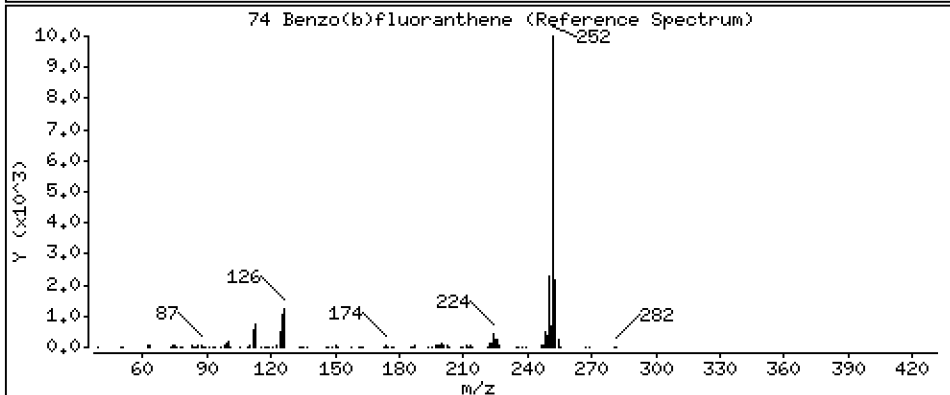
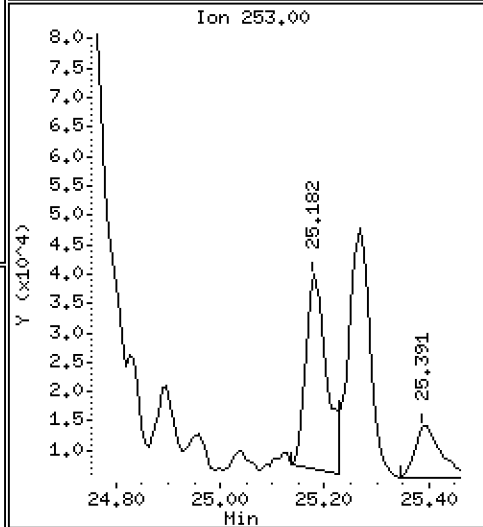
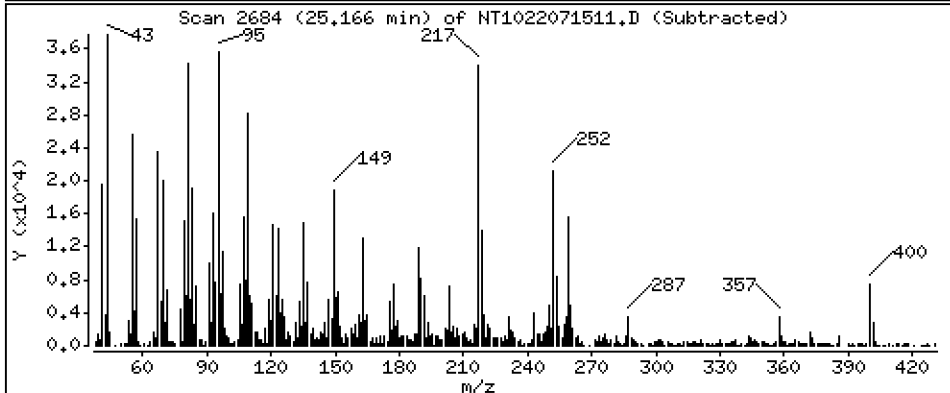
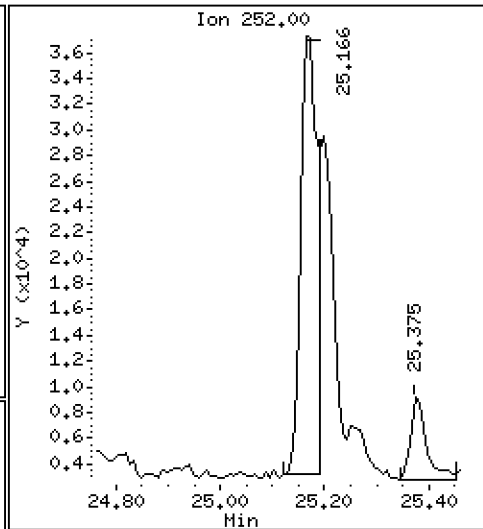
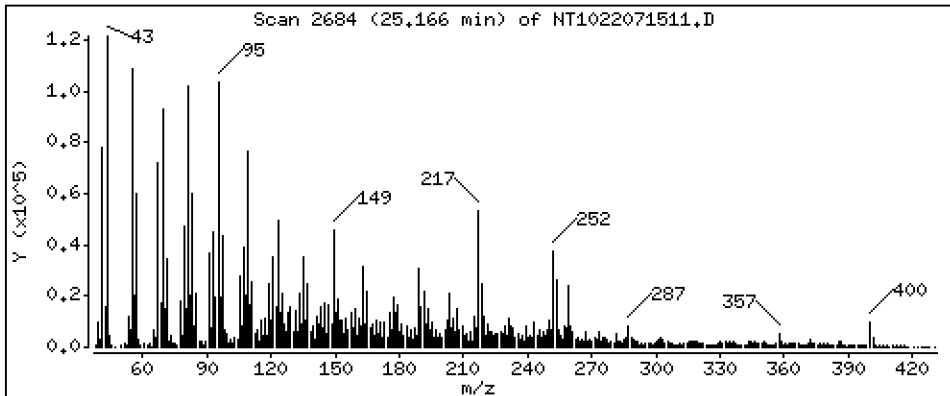
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 6,685 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 2200019-04,5

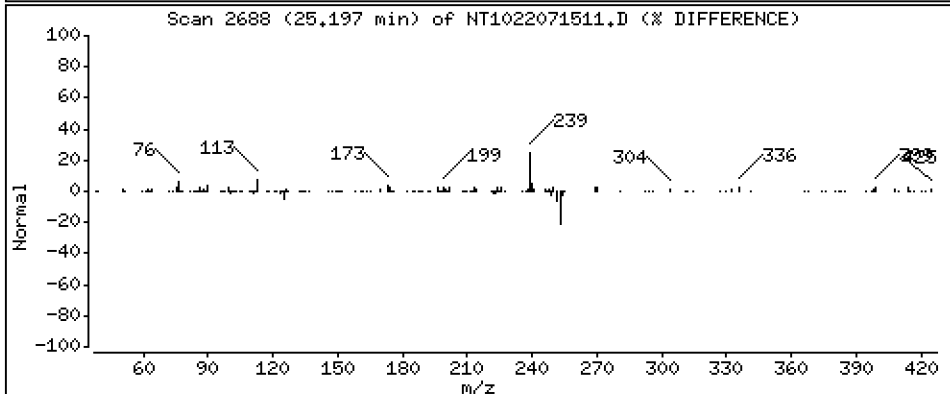
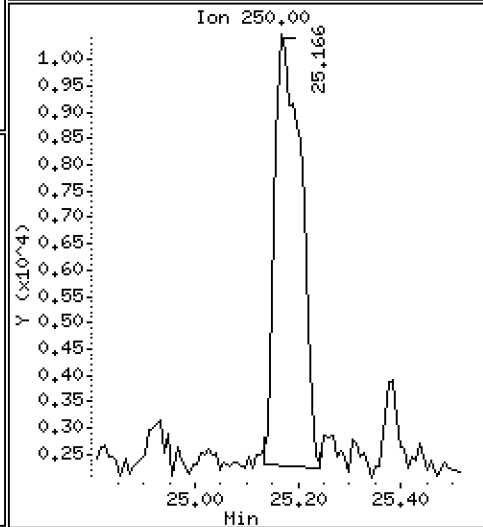
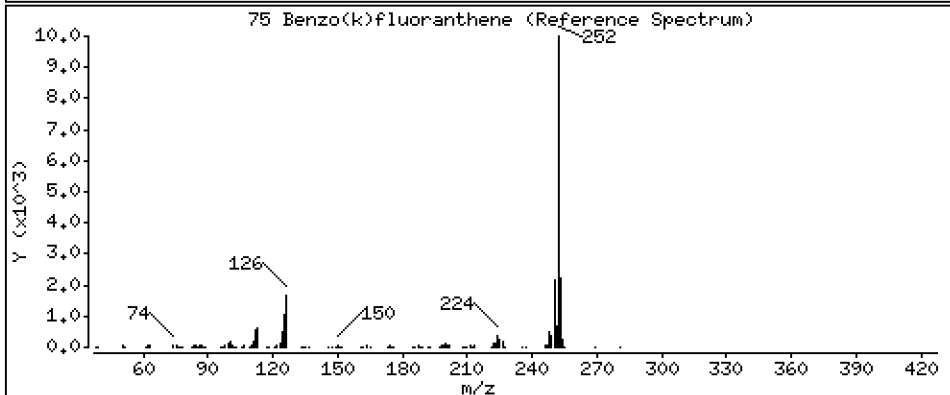
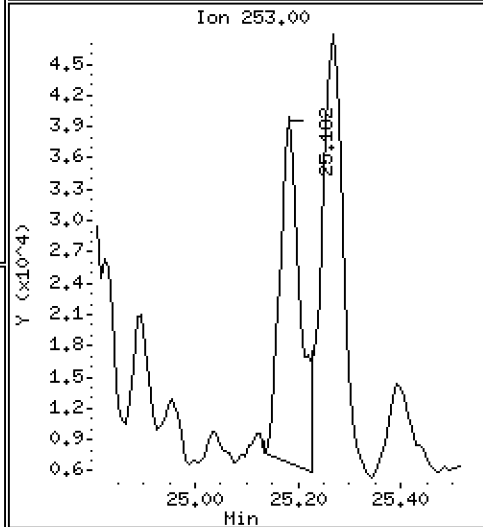
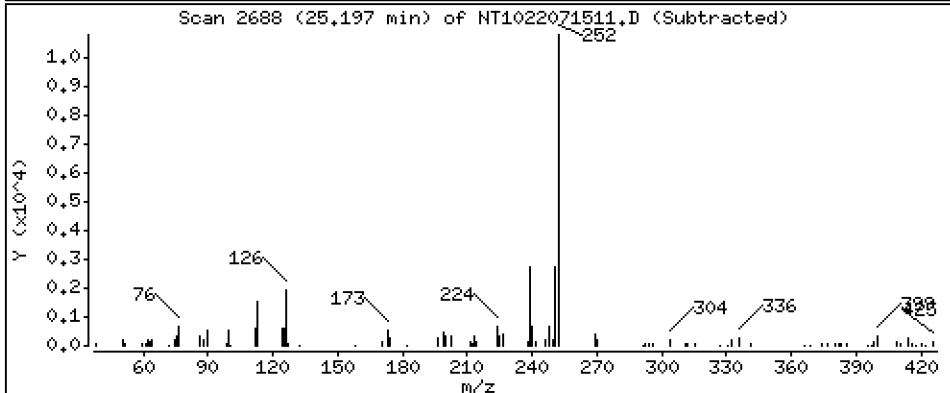
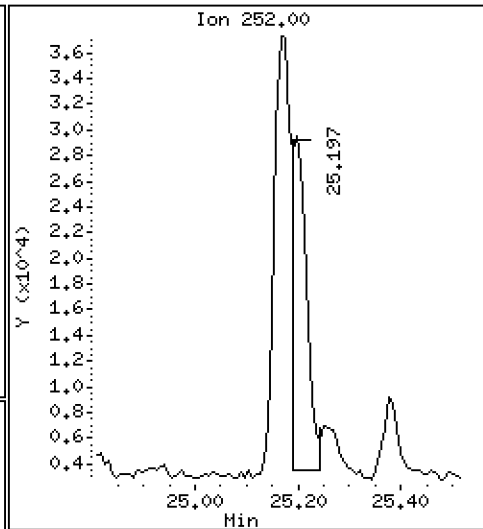
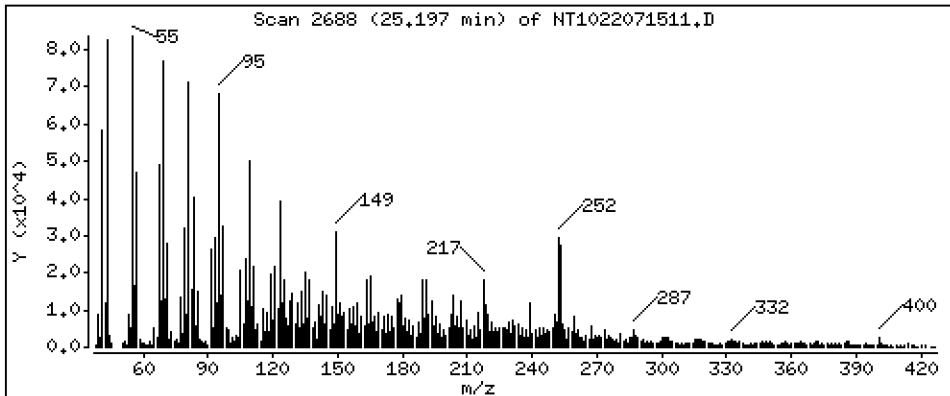
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,892 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 2200019-04,5

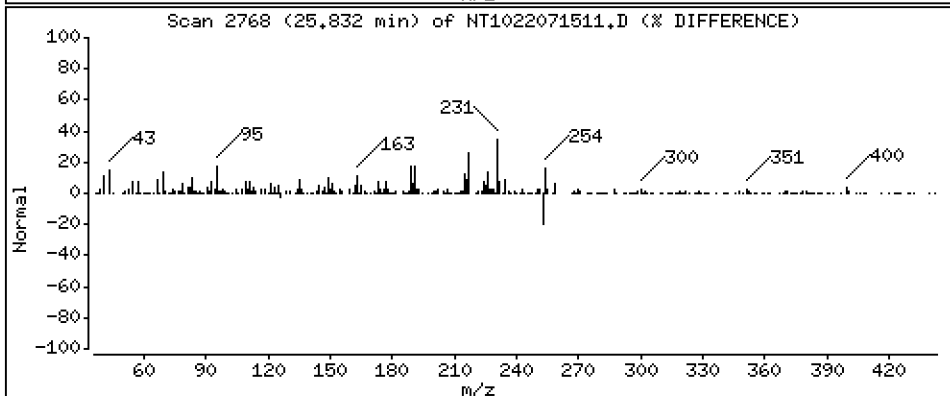
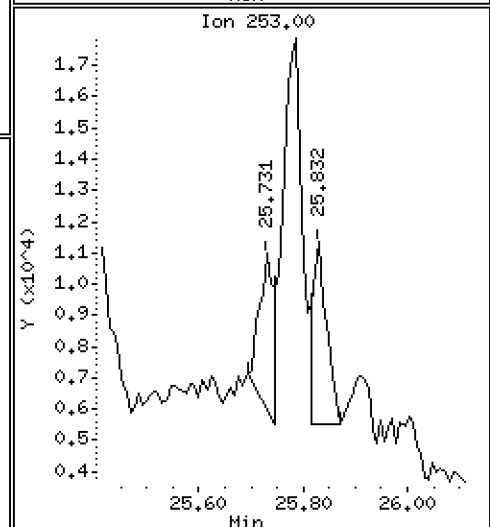
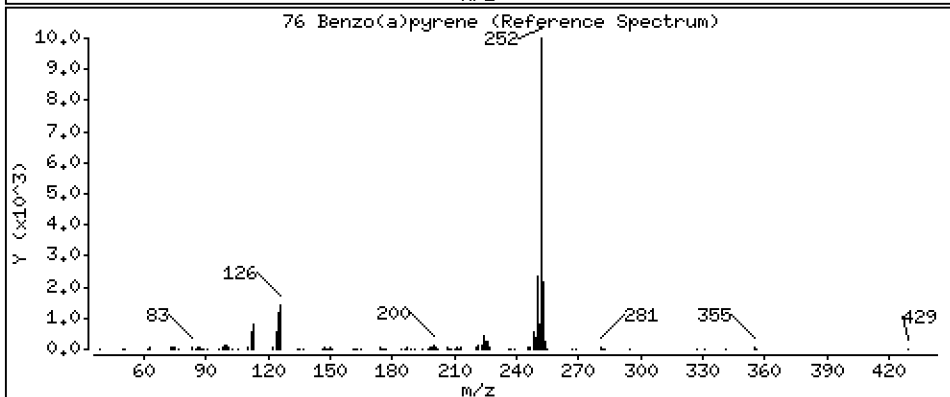
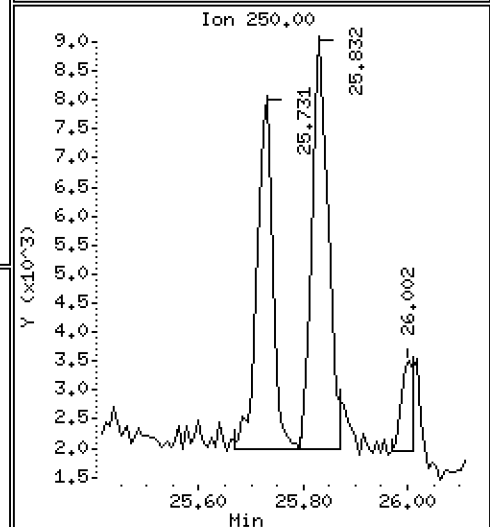
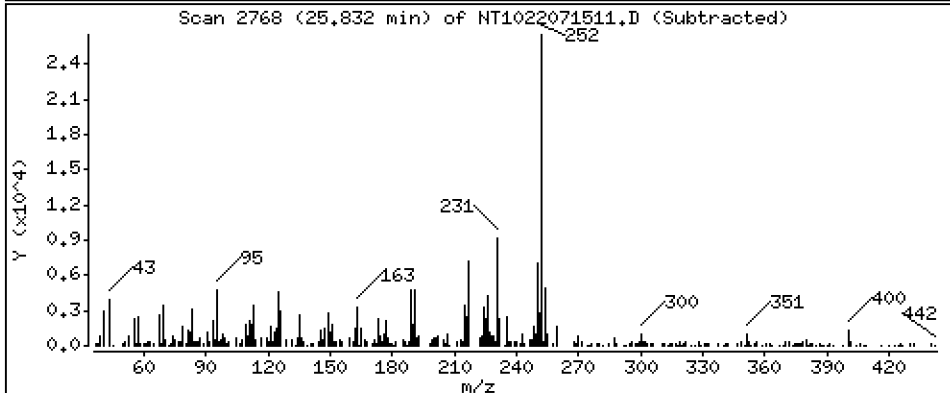
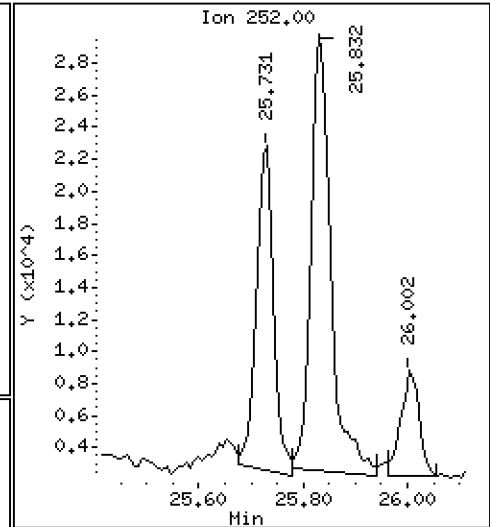
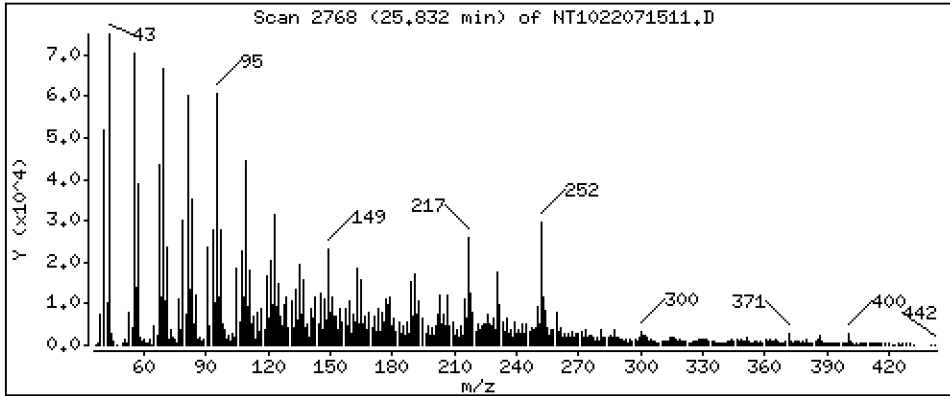
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 7,602 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04,5

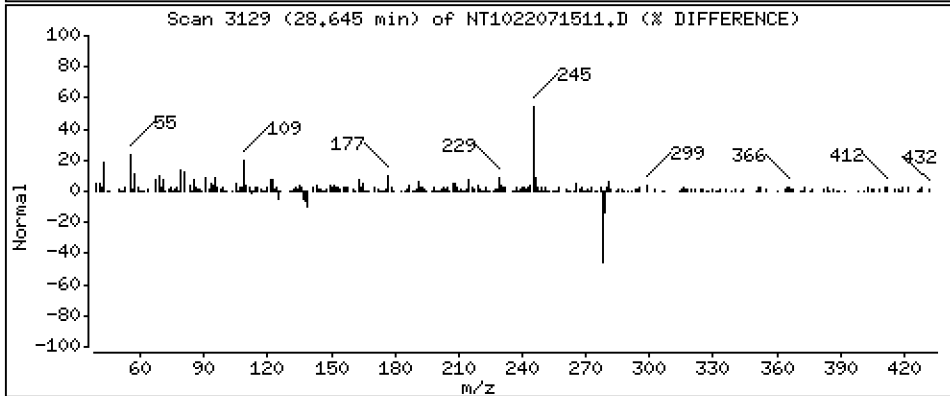
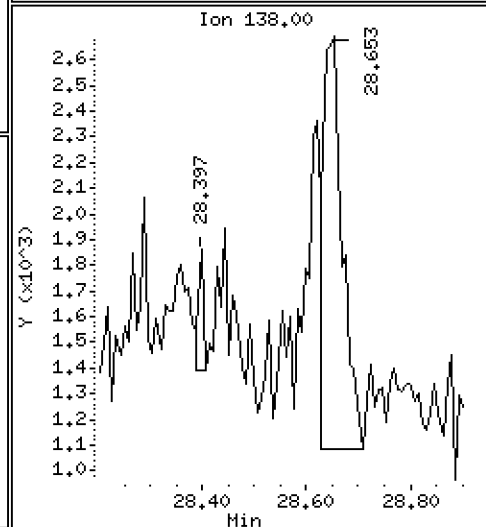
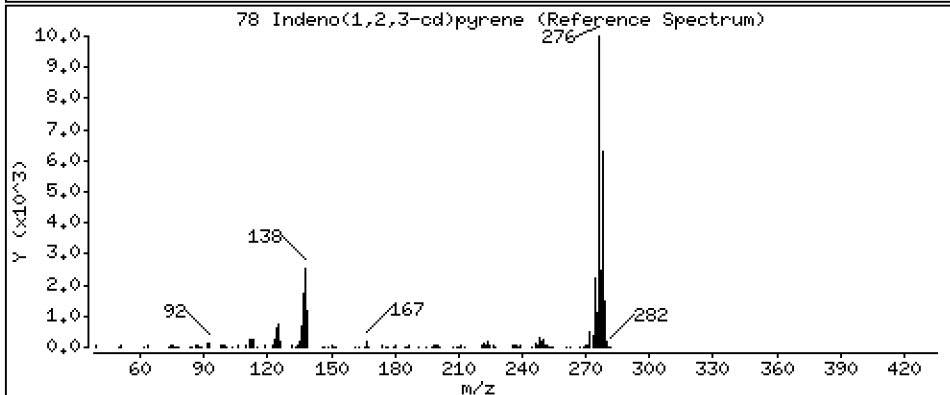
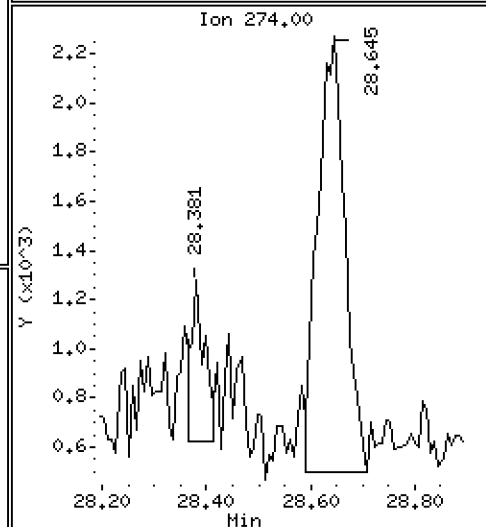
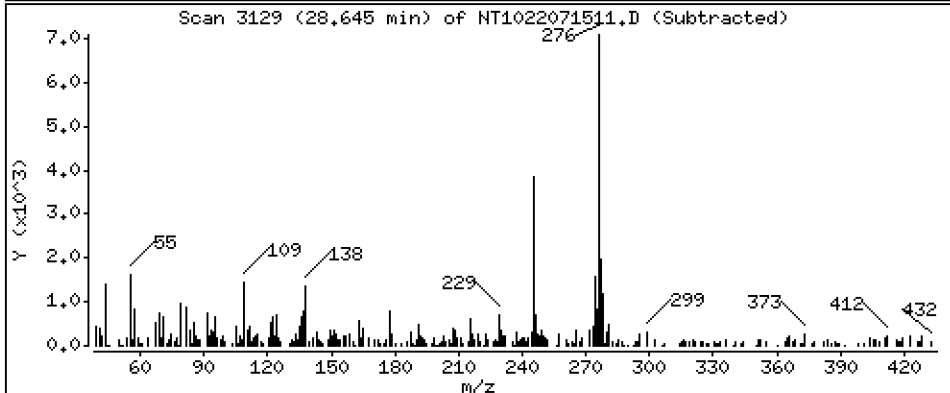
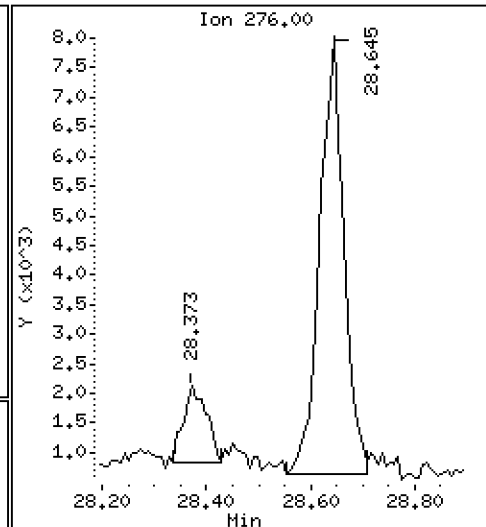
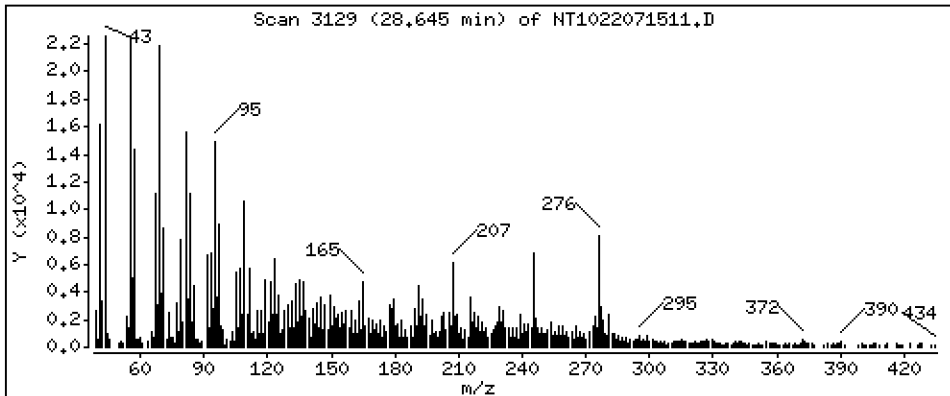
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 2,382 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 2200019-04,5

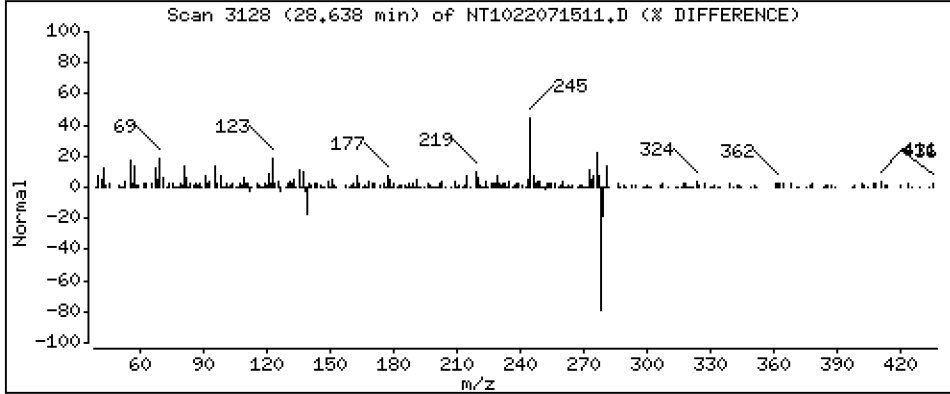
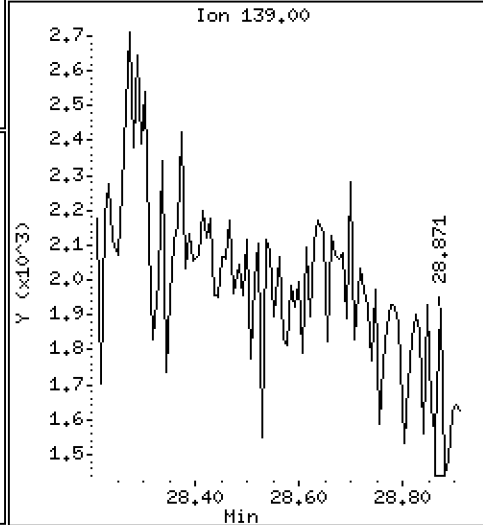
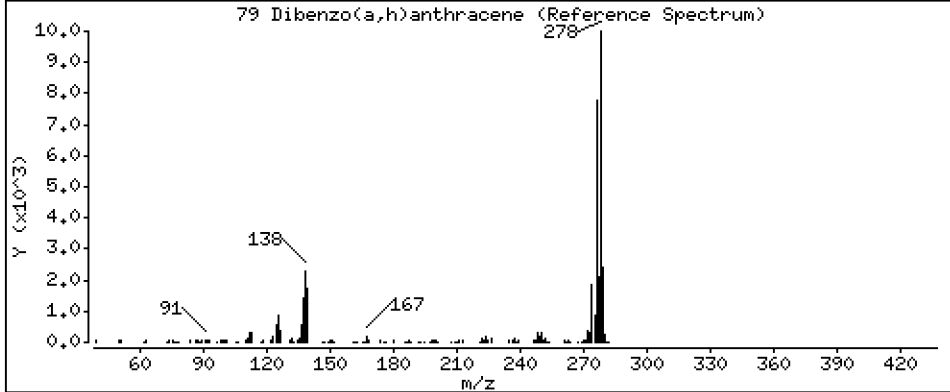
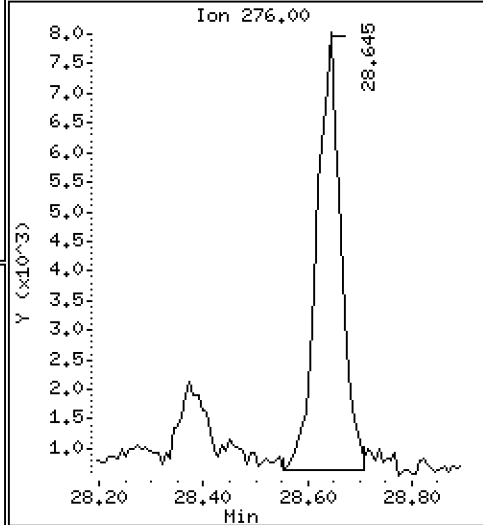
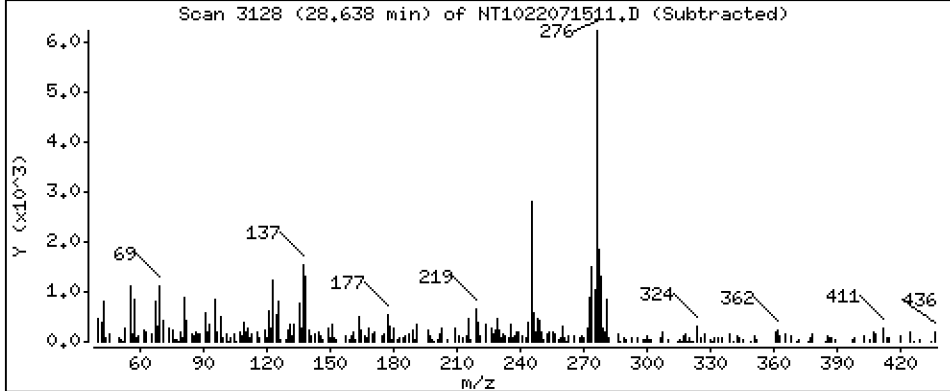
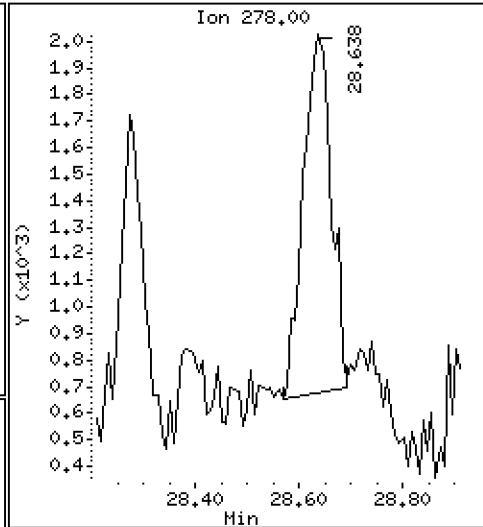
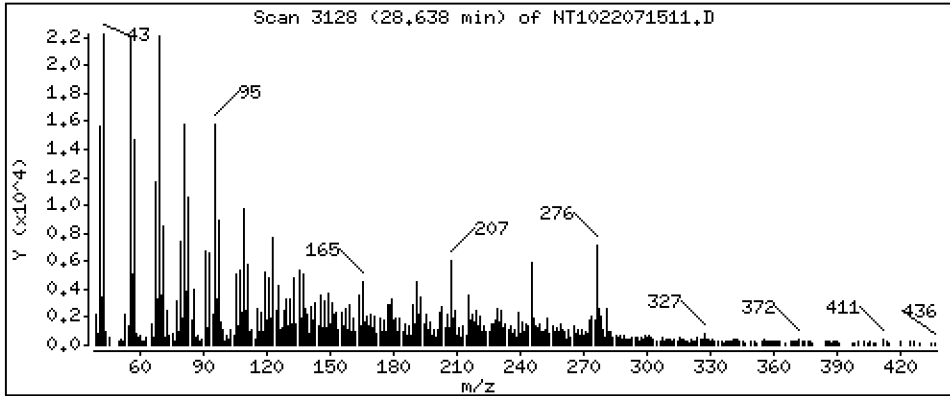
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,6575 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04,5

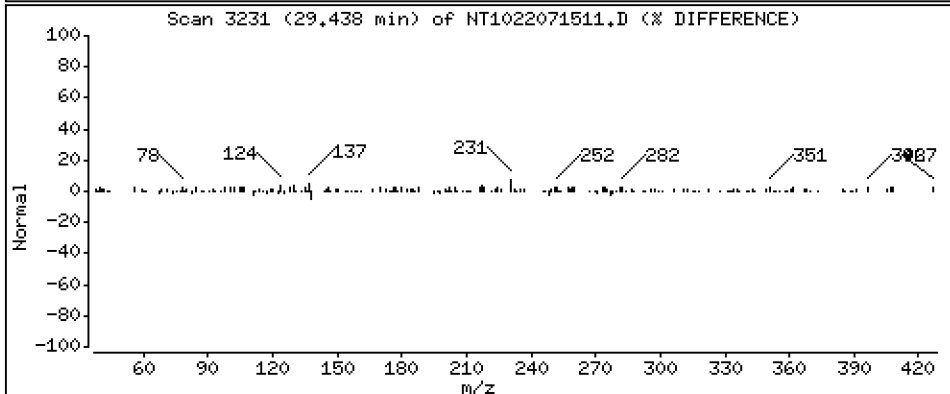
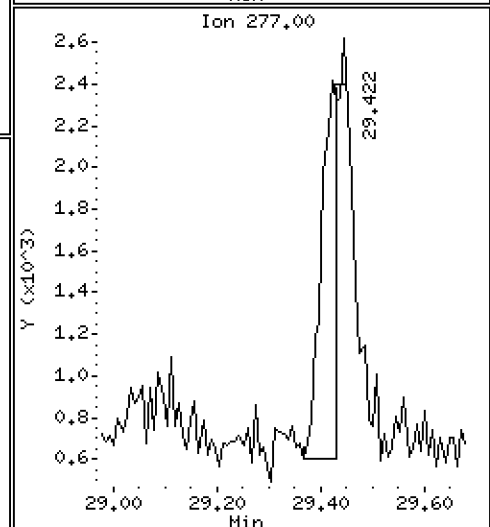
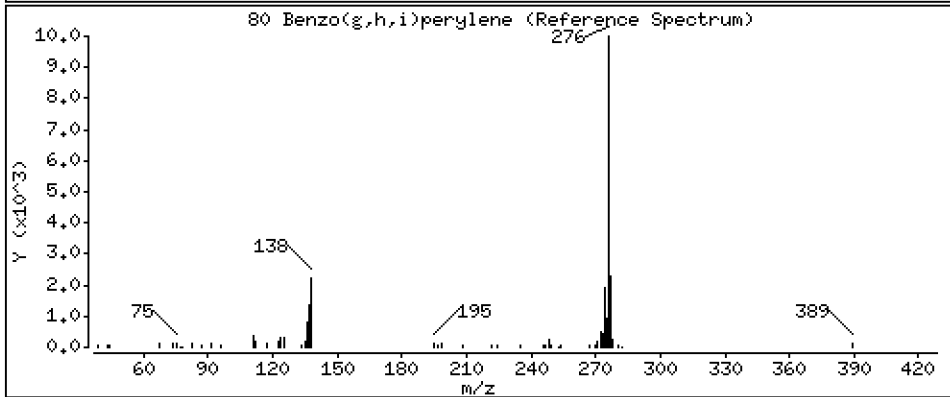
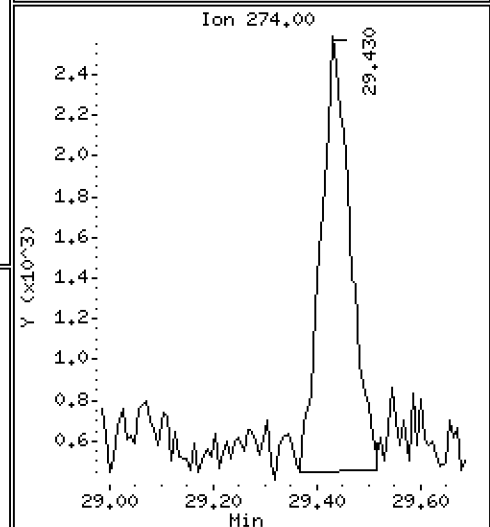
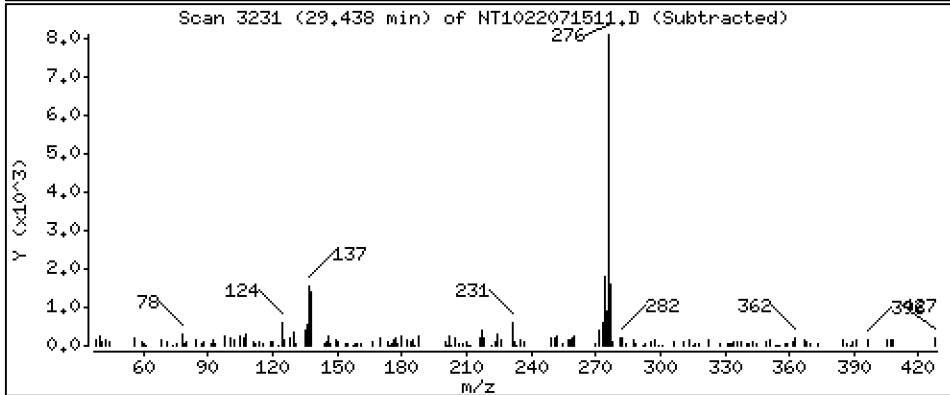
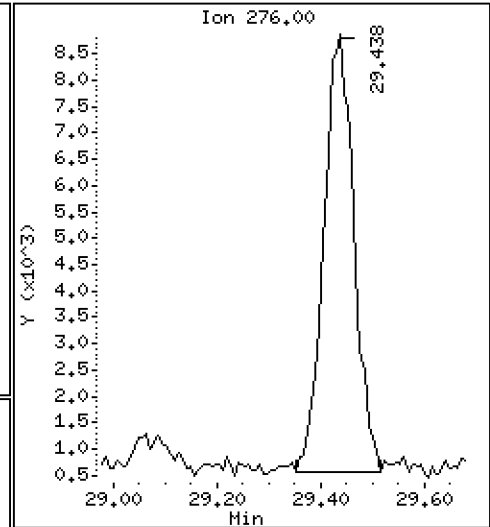
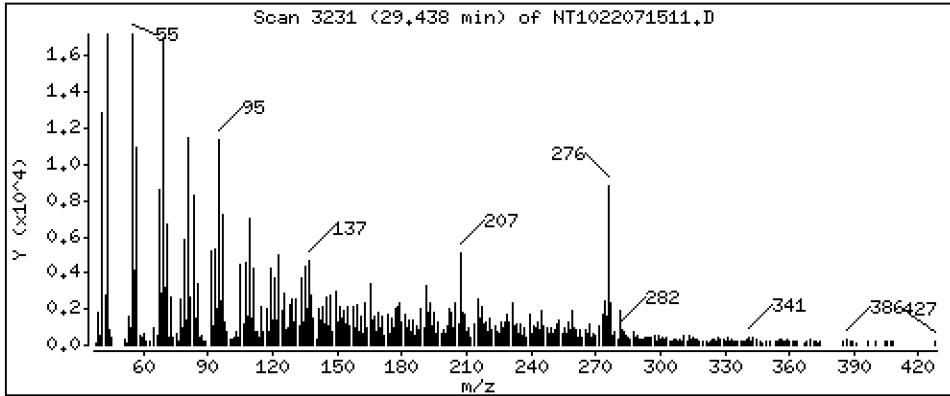
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,201 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04,5

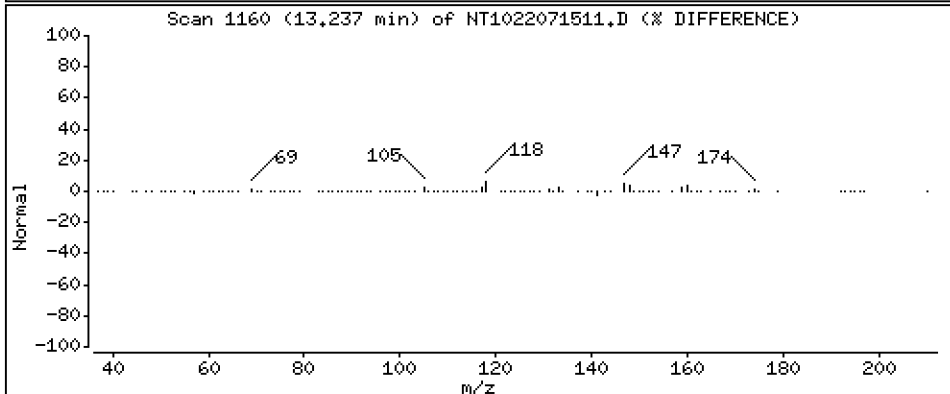
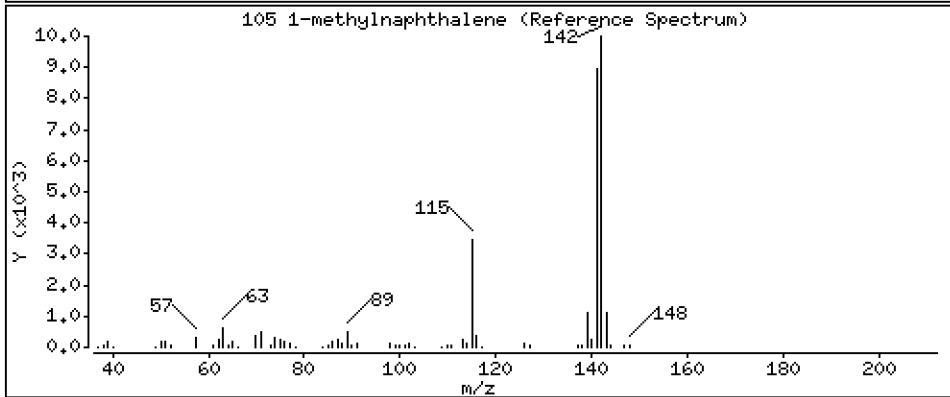
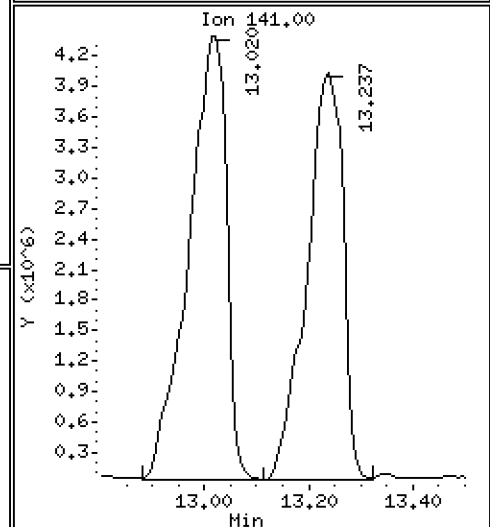
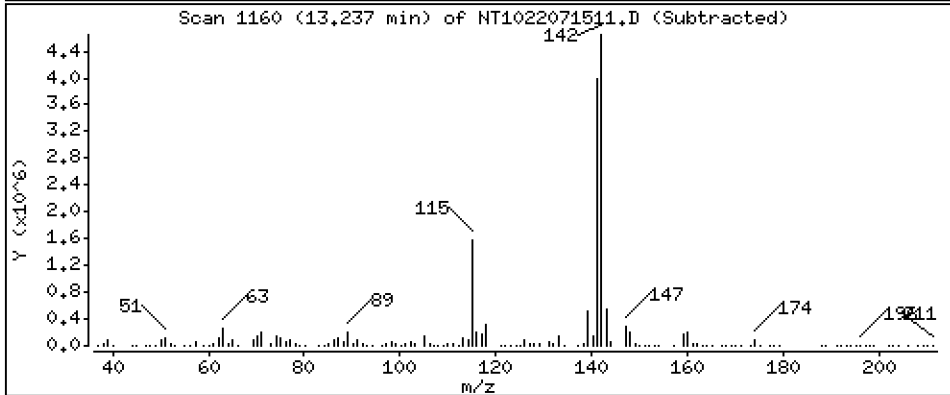
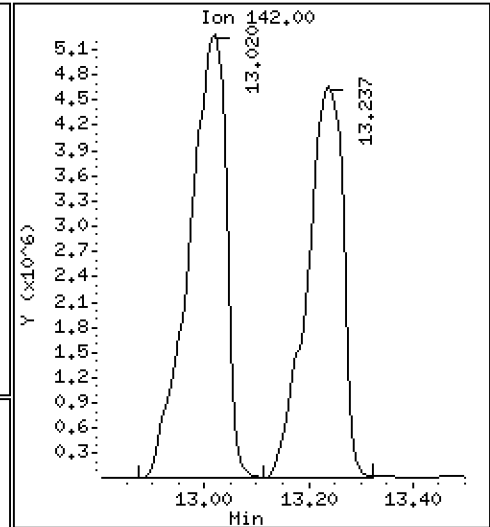
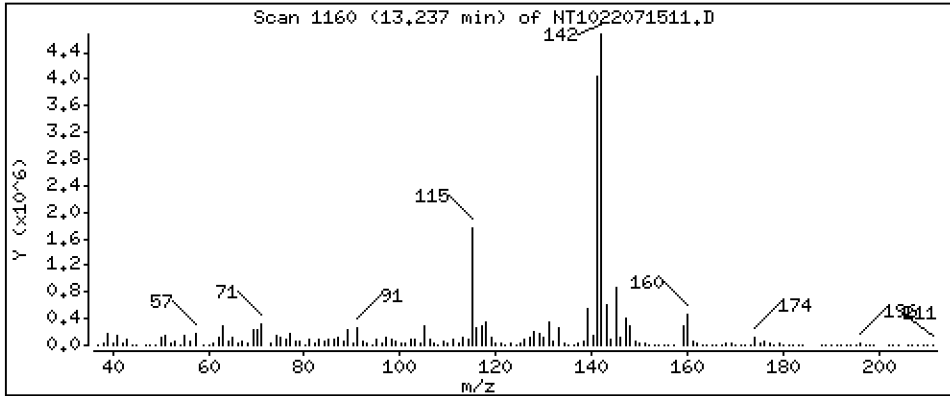
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 864,0 ug/mL



Date : 15-JUL-2022 18:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04,5

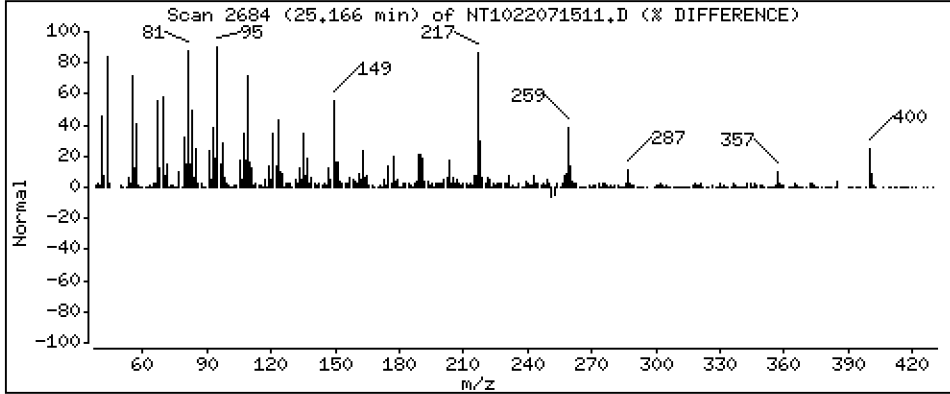
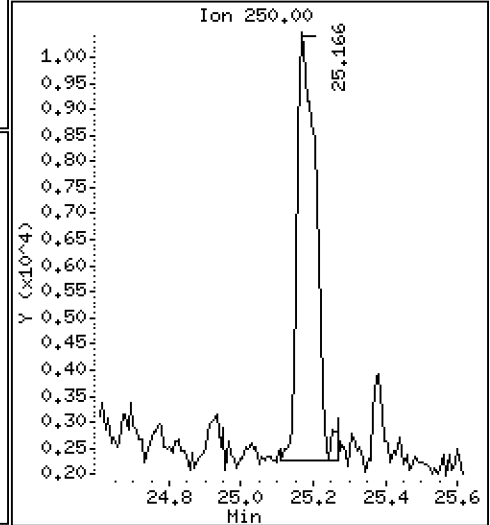
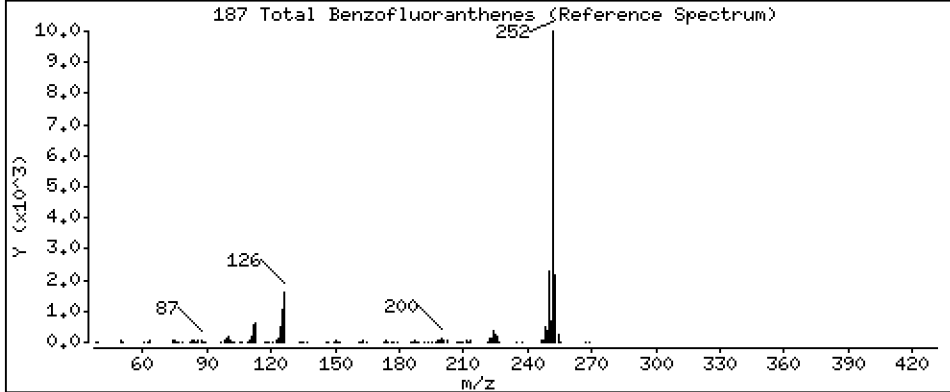
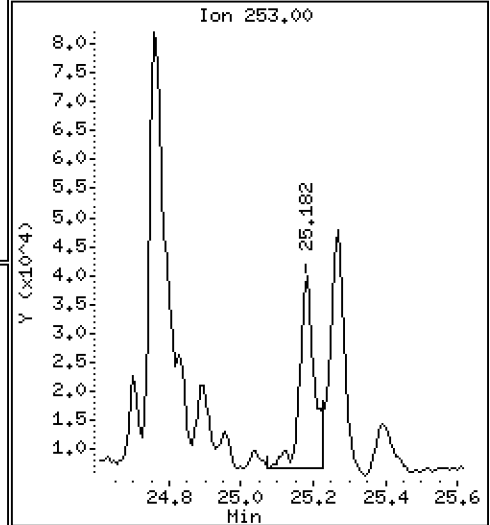
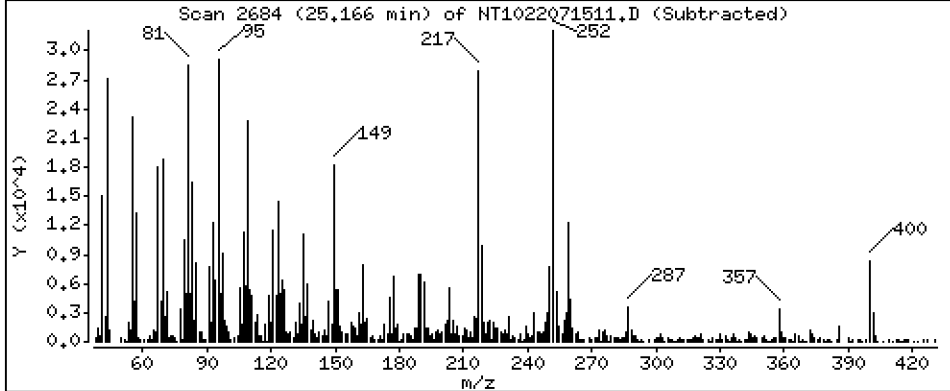
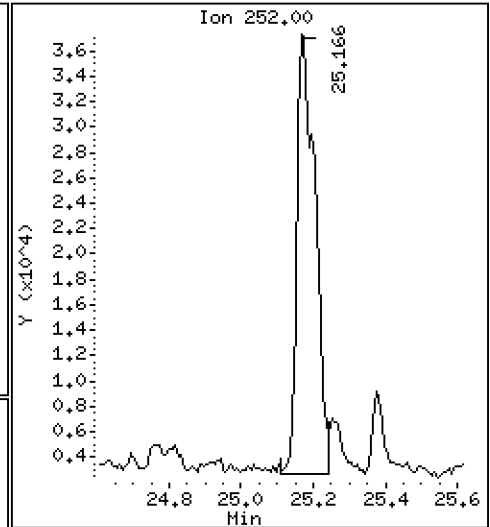
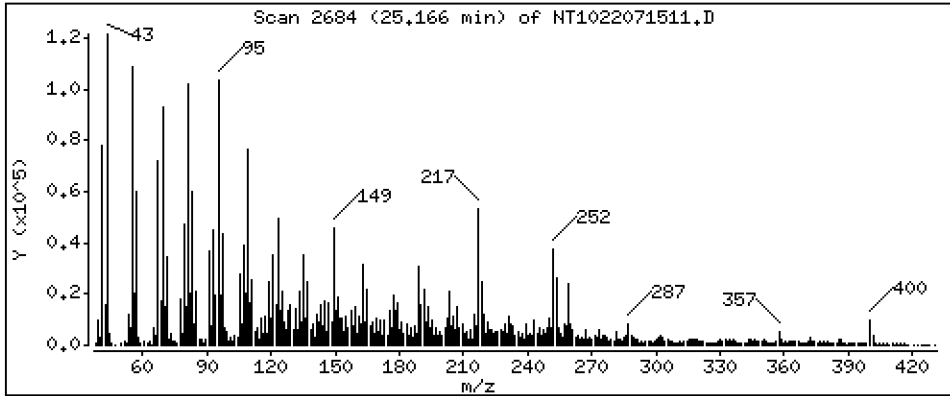
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 11,59 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071511.D
 Lab Smp Id: 22G0019-04
 Inj Date : 15-JUL-2022 18:42
 Operator : VTS
 Smp Info : 22G0019-04,5
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 11
 Dil Factor: 5.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.821	6.806	(0.756)	95038	1.32605	6.630
\$ 2 Phenol-d5	99		8.413	8.398	(0.932)	110031	1.03468	5.173
3 Phenol	94		8.444	8.421	(0.936)	15723	0.16967	0.8484
\$ 5 2-Chlorophenol-d4	132		8.668	8.652	(0.961)	97467	1.33466	6.673
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.024	9.001	(1.000)	196274	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.381	9.366	(1.040)	36452	0.81005	4.050 (M)
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.816	9.793	(1.088)	14660	0.24010	1.200
\$ 18 Nitrobenzene-d5	82		10.118	10.095	(0.879)	62684	1.13212	5.661 (M)
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.511	11.488	(1.000)	520350	4.00000	
28 Naphthalene	128		11.558	11.535	(1.004)	2413588	18.1236	90.62 (M)
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		13.020	12.927	(1.131)	26414527	199.572	997.9
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.786	13.716	(0.915)	57472	0.51768	2.588 (H)
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152		14.931	14.800	(0.991)	684228	4.77120	23.86 (H)
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.194	15.109	(1.000)	245329	4.00000	(H)
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.264	15.179	(1.013)	1871412	26.2292	131.1
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.604	15.511	(1.036)	683675	6.02946	30.15 (H)
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		16.323	16.223	(1.084)	2231904	16.4731	82.37 (H)
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.862	16.762	(1.110)	8337	0.75335	3.767 (M)
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266		18.014	17.906	(0.987)	13102	3.22494	16.12
* 59 Phenanthrene-d10	188		18.254	18.161	(1.000)	267683	4.00000	
60 Phenanthrene	178		18.316	18.207	(1.003)	11263166	160.158	800.8
61 Anthracene	178		18.385	18.300	(1.007)	764095	10.1957	50.98
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.668	20.606	(0.888)	668359	6.61851	33.09
65 Pyrene	202		21.093	21.031	(0.906)	691721	7.69922	38.50
\$ 66 Terphenyl-d14	244		21.364	21.326	(0.918)	41909	0.88129	4.406
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.253	23.215	(0.999)	90615	1.56928	7.846
* 69 Chrysene-d12	240		23.277	23.246	(1.000)	136269	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.323	23.292	(1.002)	110554	2.81180	14.06
72 bis(2-Ethylhexyl)phthalate	149		23.339	23.308	(0.959)	20398	0.65932	3.297
* 134 Di-n-octylphthalate-d4	153		24.337	24.306	(1.000)	279901	4.00000	
73 Di-n-octylphthalate	149		24.360	24.314	(1.001)	34395	0.54064	2.703
74 Benzo(b)fluoranthene	252		25.166	25.112	(0.970)	76086	1.33698	6.685
75 Benzo(k)fluoranthene	252		25.197	25.158	(0.971)	53536	0.97832	4.892 (M)
76 Benzo(a)pyrene	252		25.831	25.762	(0.995)	70818	1.52046	7.602
* 77 Perylene-d12	264		25.955	25.878	(1.000)	125659	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.645	28.544	(1.104)	23693	0.47643	2.382
79 Dibenzo(a,h)anthracene	278		28.637	28.560	(1.103)	5006	0.13149	0.6575 (M)
80 Benzo(g,h,i)perylene	276		29.437	29.329	(1.134)	33403	0.84026	4.201
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.236	13.151	(1.150)	22470167	172.802	864.0
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.166	25.112	(0.970)	122953	2.31719	11.59 (M)	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071511.D Calibration Time: 12:41
 Lab Smp Id: 22G0019-04
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	196274	-2.61
27 Naphthalene-d8	649654	324827	1299308	520350	-19.90
42 Acenaphthene-d10	370460	185230	740920	245329	-33.78
59 Phenanthrene-d10	647298	323649	1294596	267683	-58.65
69 Chrysene-d12	221116	110558	442232	136269	-38.37
134 Di-n-octylphthala	319144	159572	638288	279901	-12.30
77 Perylene-d12	105234	52617	210468	125659	19.41

<-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.02	0.26
27 Naphthalene-d8	11.49	10.99	11.99	11.51	0.20
42 Acenaphthene-d10	15.11	14.61	15.61	15.19	0.56
59 Phenanthrene-d10	18.16	17.66	18.66	18.25	0.51
69 Chrysene-d12	23.25	22.75	23.75	23.28	0.13
134 Di-n-octylphthala	24.31	23.81	24.81	24.34	0.13
77 Perylene-d12	25.88	25.38	26.38	25.96	0.30

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

REVIEW SUMMARY FOR FILE - NT1022071511.D

Lab ID: 22G0019-04
nt10.i, ABN.m, 15-JUL-2022 18:42

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.131	1.125	0.0058	2-Methylnaphthalene
0.991	0.980	0.0118	Acenaphthylene
1.013	1.005	0.0087	Acenaphthene
1.036	1.027	0.0093	Dibenzofuran
1.084	1.074	0.0099	Fluorene
1.150	1.145	0.0051	1-methylnaphthalene
0.915	0.908	0.0074	2-Fluorobiphenyl

RRT check based on Ccal File: NT1022071502.D

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

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

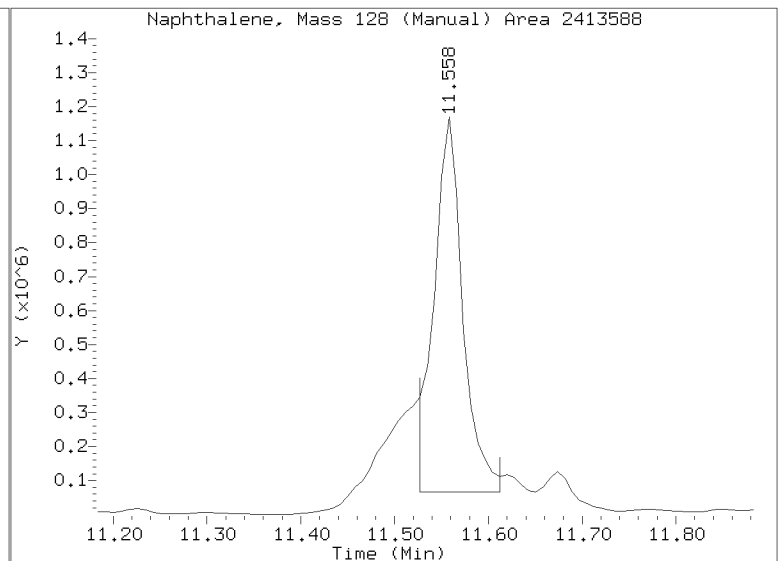
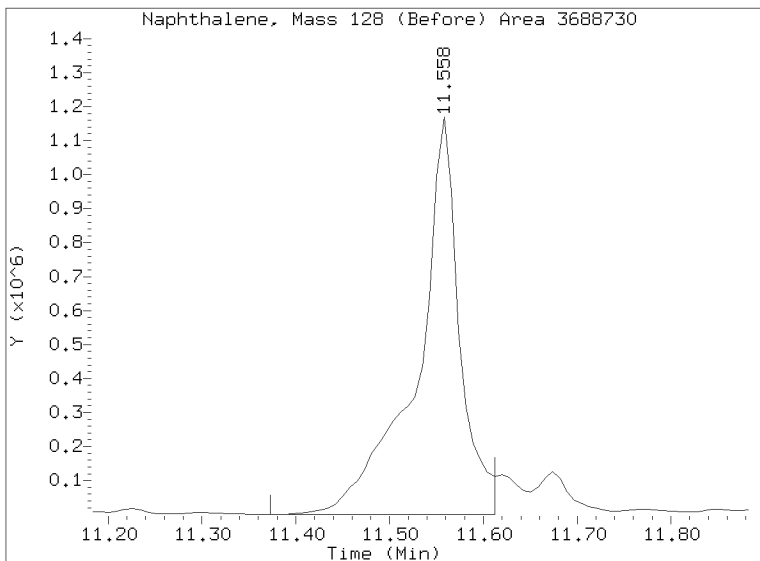
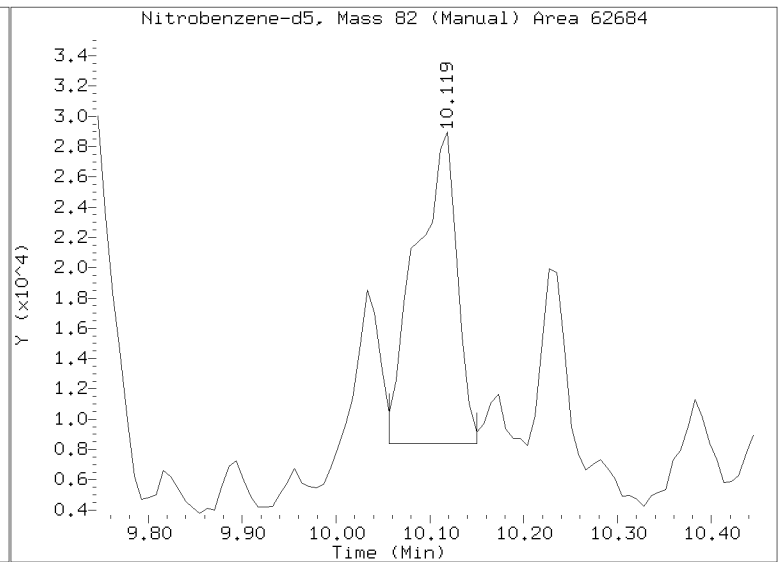
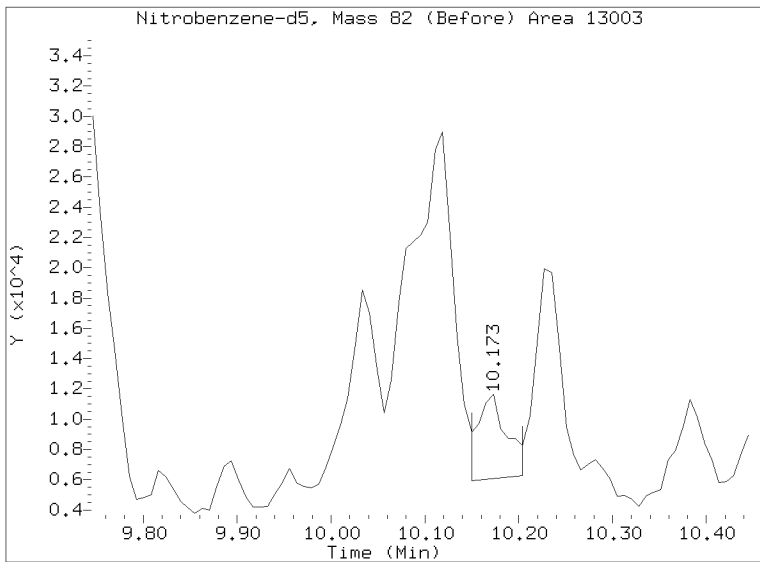
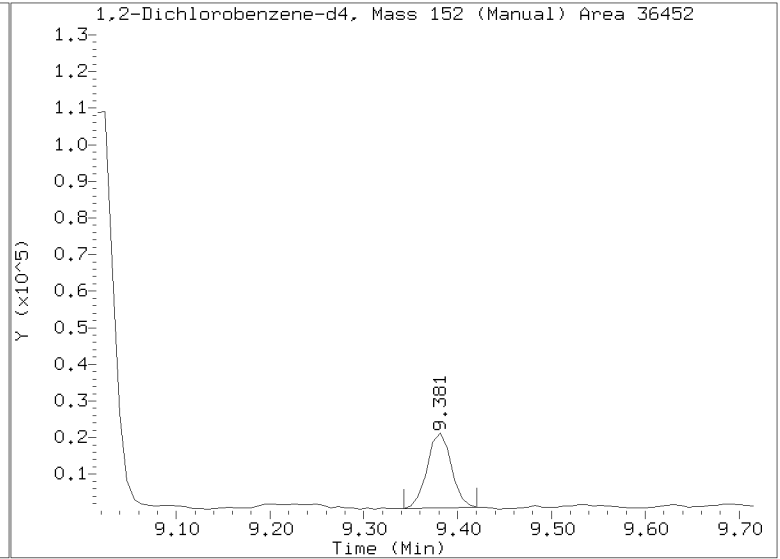
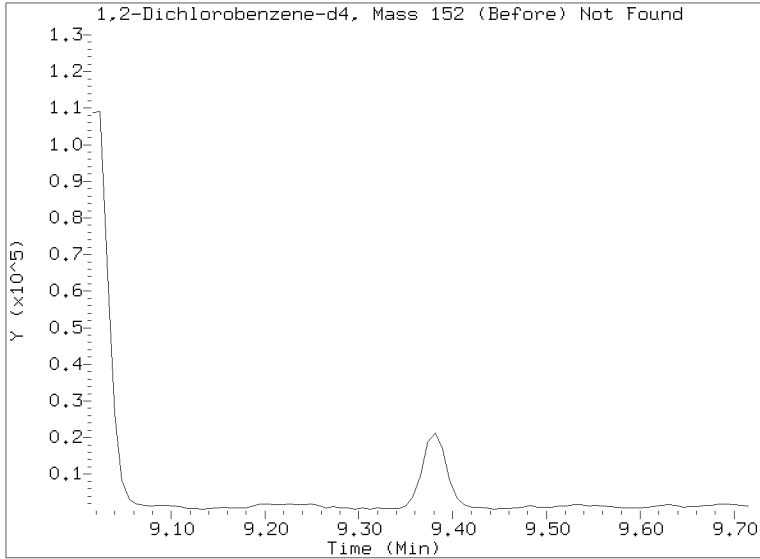
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071511.D

Injection Date: 15-JUL-2022 18:42

Lab ID:22G0019-04 Client ID:

Report Date: 07/16/2022 09:01



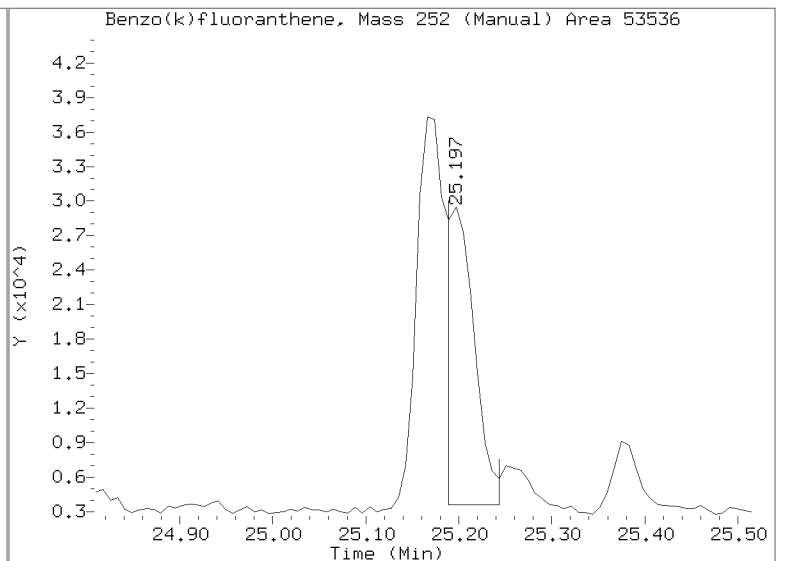
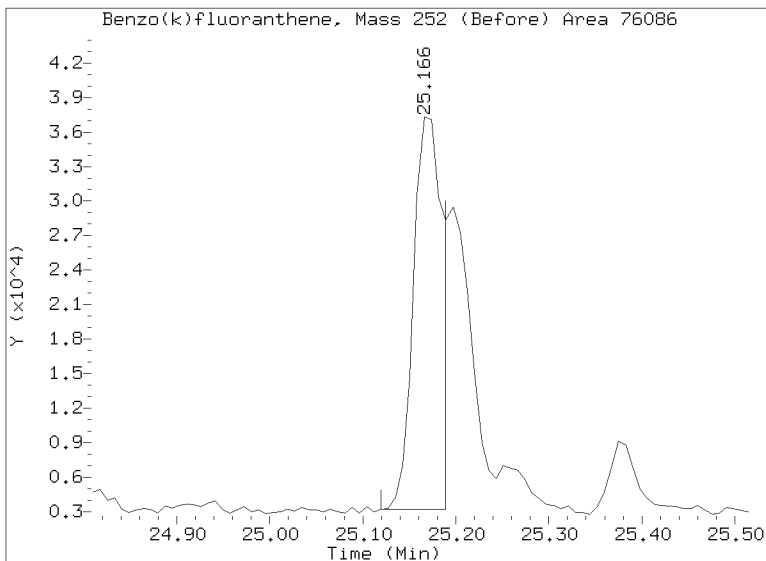
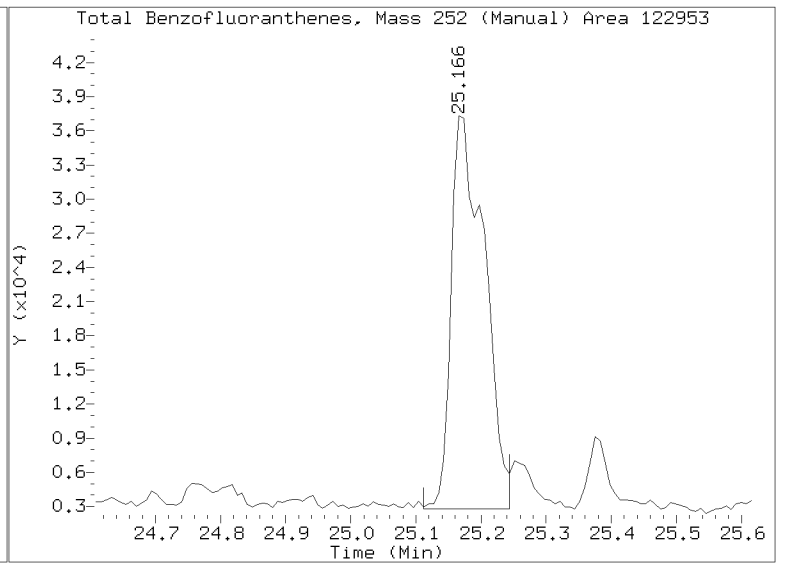
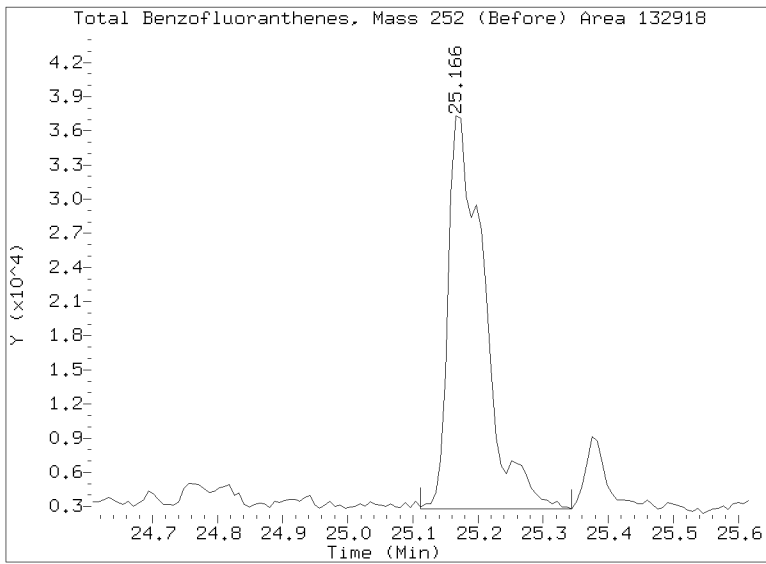
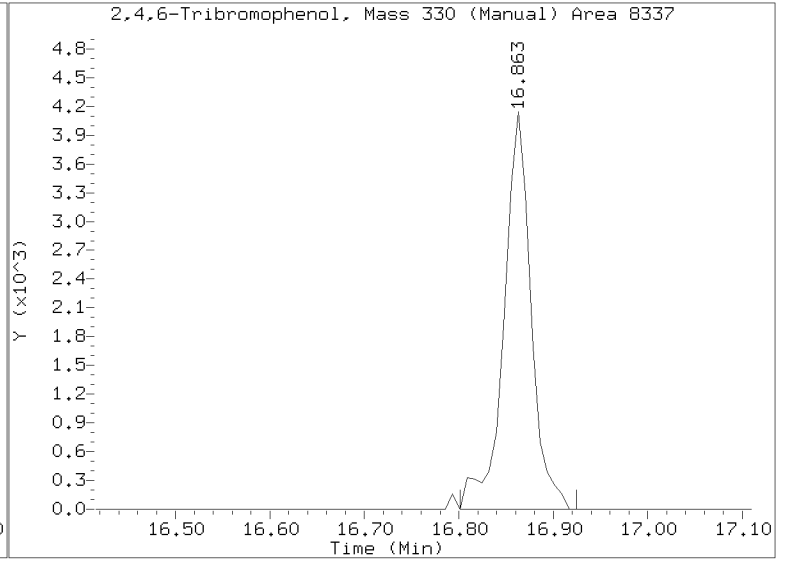
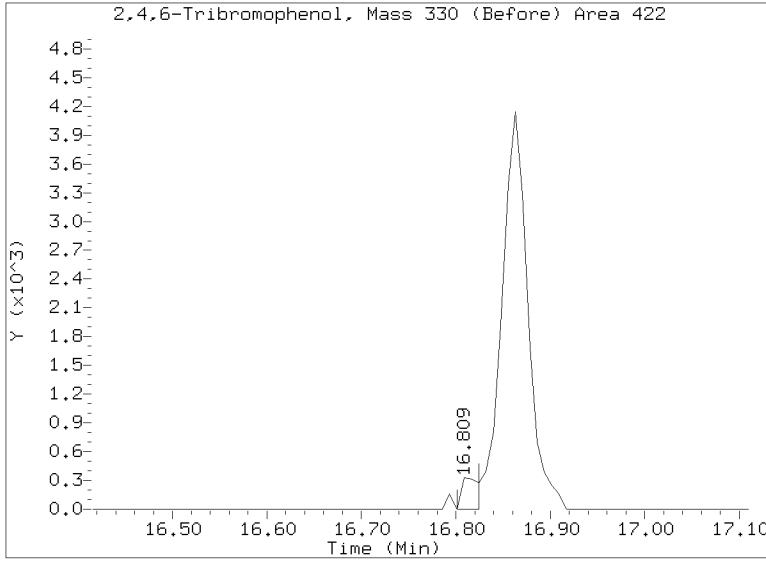
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071511.D

Injection Date: 15-JUL-2022 18:42

Lab ID:22G0019-04 Client ID:

Report Date: 07/16/2022 09:01



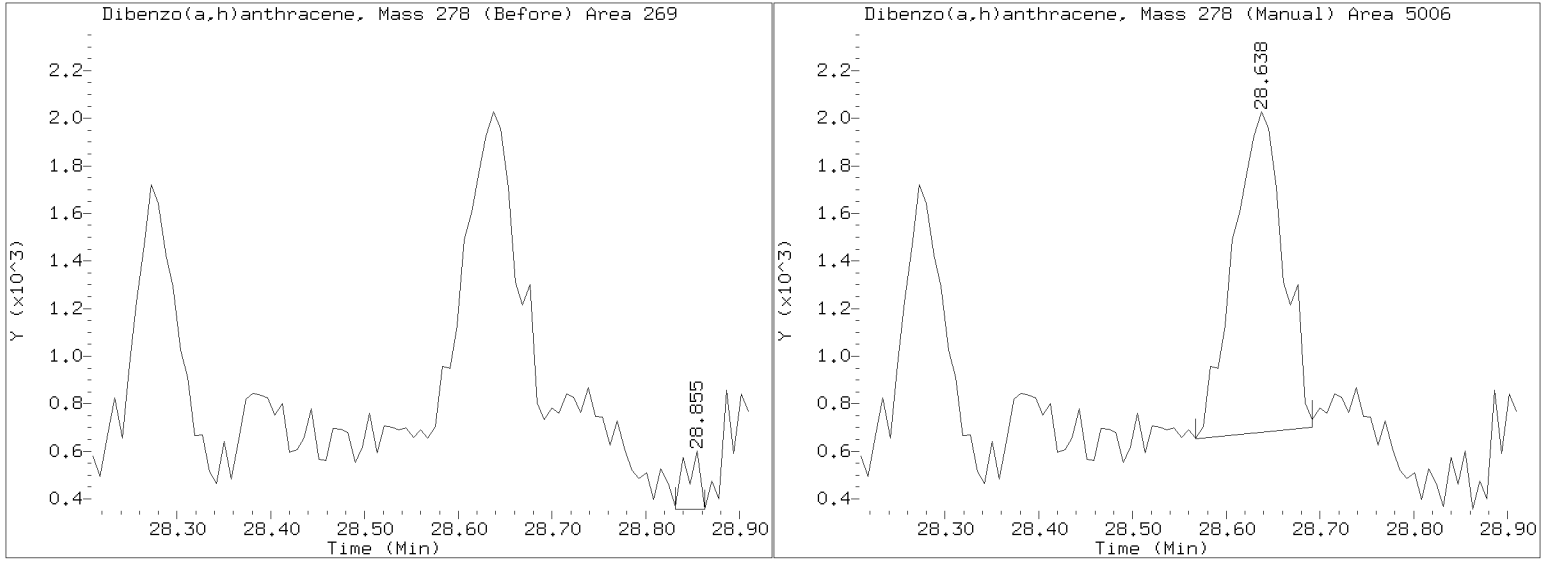
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Injection Date: 15-JUL-2022 18:42

Lab ID:22G0019-04 Client ID:

Report Date: 07/16/2022 09:01





Form I
ORGANIC ANALYSIS DATA SHEET

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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-04RE1 A

SDG: 22G0019

Sampled: 06/28/22 10:40

Prepared: 07/07/22 10:01

File ID: NT1022071612.D

% Solids: 46.02

Preparation: EPA 3546 (Microwave)

Analyzed: 07/16/22 17:42

Batch: BKG0069

Sequence: SKG0171

Initial/Final: 21.74 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	100	11500	D	424	2000
91-57-6	2-Methylnaphthalene	100	157000	D	451	2000
83-32-9	Acenaphthene	100	38000	D	522	2000
87-86-5	Pentachlorophenol	100	3120	U	3120	10000
85-01-8	Phenanthrene	100	71600	D	872	2000
206-44-0	Fluoranthene	100	3910	D	609	2000
56-55-3	Benzo(a)anthracene	100	803	J, D	596	2000
218-01-9	Chrysene	100	1470	J, D	606	2000
205-99-2	Benzo(b)fluoranthene	100	702	U	702	2000
207-08-9	Benzo(k)fluoranthene	100	605	J, D	501	2000
50-32-8	Benzo(a)pyrene	100	894	J, D	423	2000
193-39-5	Indeno(1,2,3-cd)pyrene	100	1460	U	1460	2000
53-70-3	Dibenzo(a,h)anthracene	100	1720	U	1720	2000
90-12-0	1-Methylnaphthalene	100	145000	D	526	2000

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.64			27 - 120	D1
Phenol-d5	749.64			29 - 120	D1
2-Chlorophenol-d4	749.64			31 - 120	D1
1,2-Dichlorobenzene-d4	499.76			32 - 120	D1
Nitrobenzene-d5	499.76			30 - 120	D1
2-Fluorobiphenyl	499.76			35 - 120	D1
2,4,6-Tribromophenol	749.64			24 - 134	D1
p-Terphenyl-d14	499.76			37 - 120	D1

Data File: \\target\share\chem3\nt10.1\20220716A,B\NT1022071612.D

Date: 16-JUL-2022 17:42

Client ID:

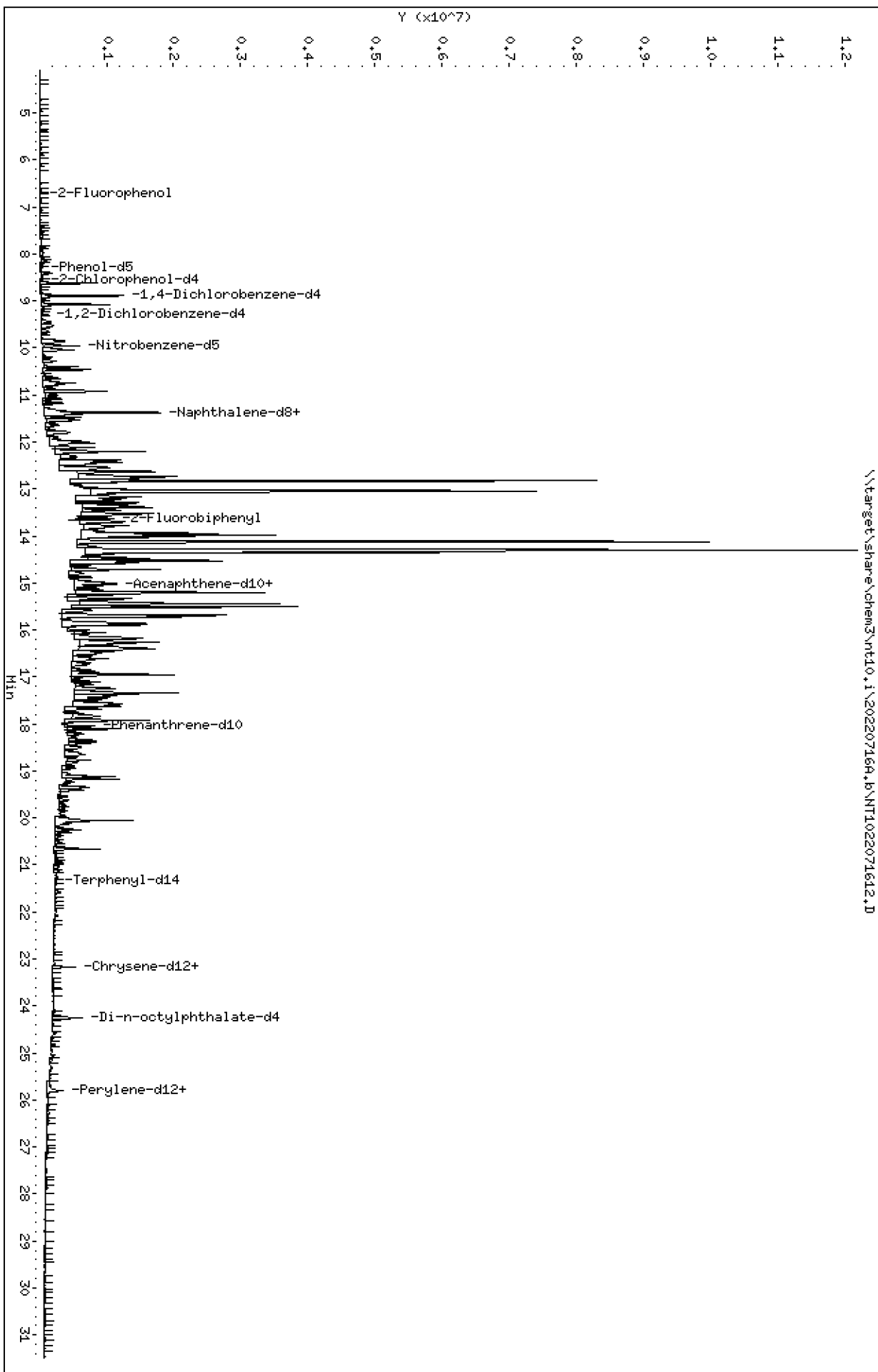
Sample Info: 2200019-04REL,100

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

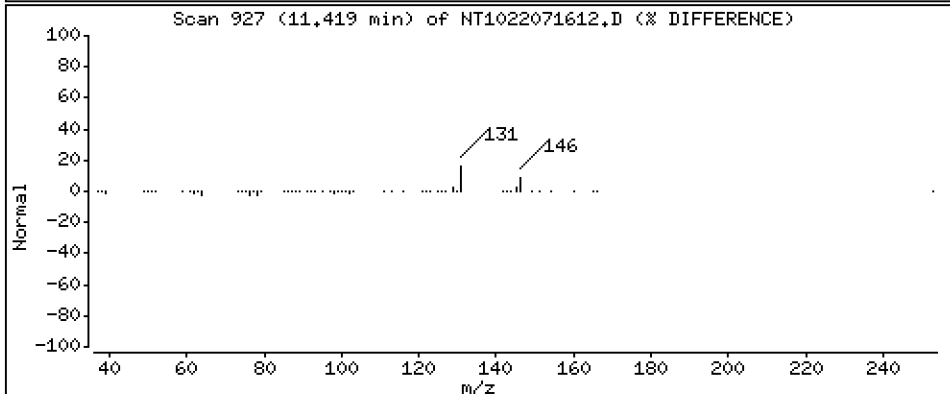
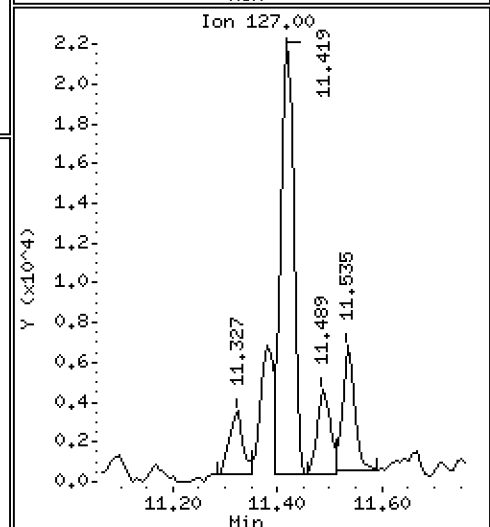
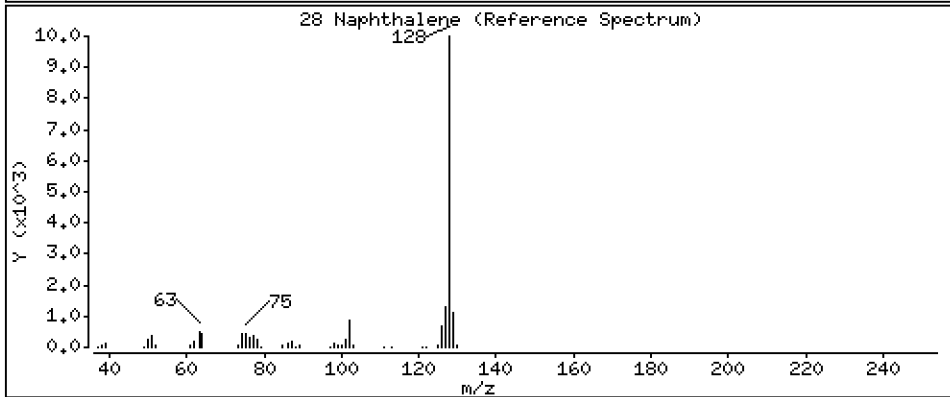
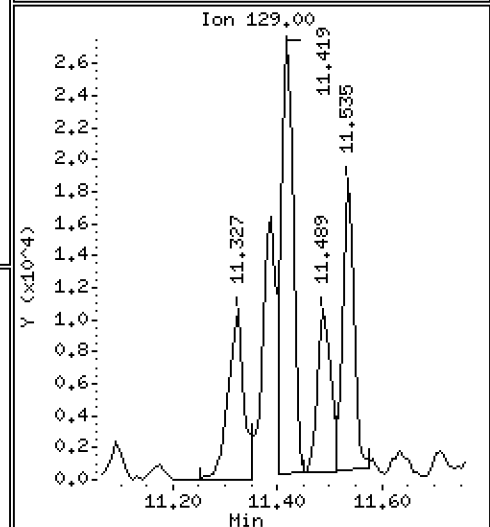
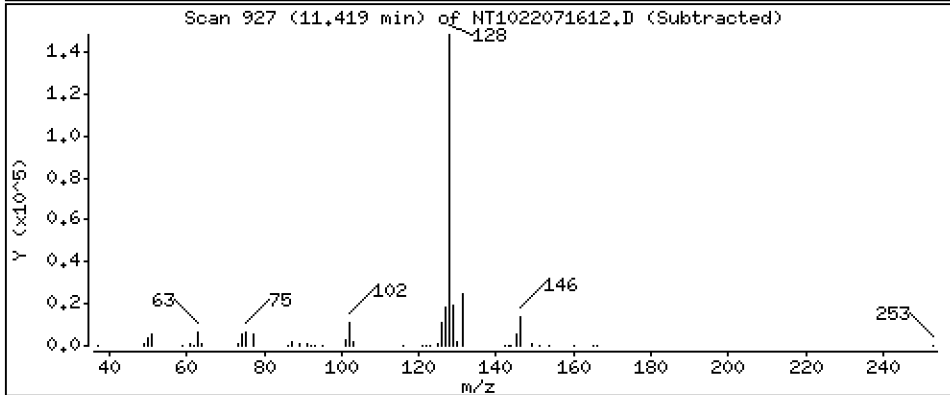
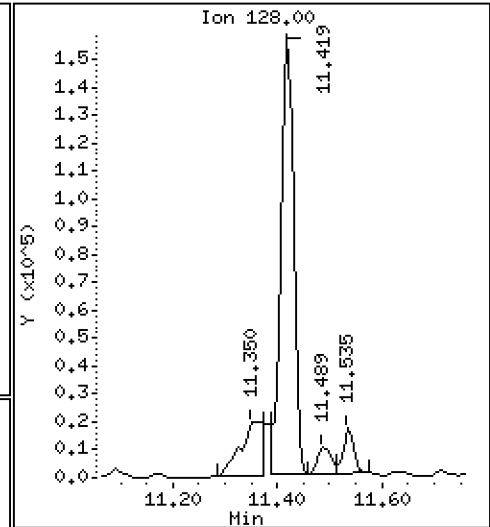
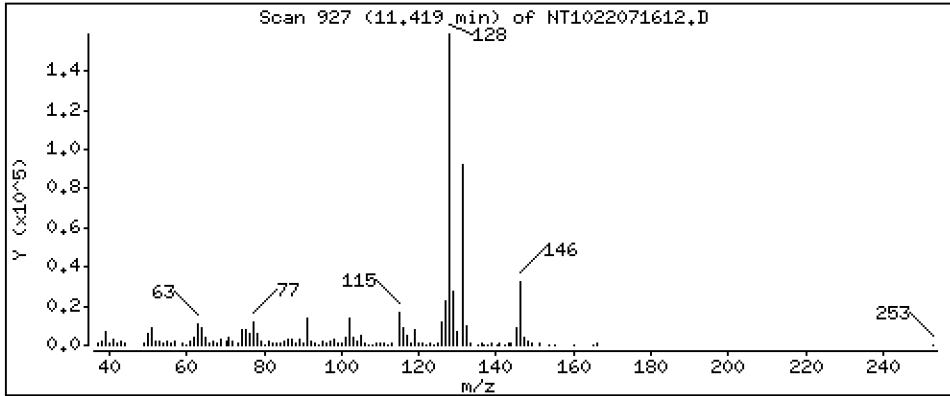
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 115,0 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

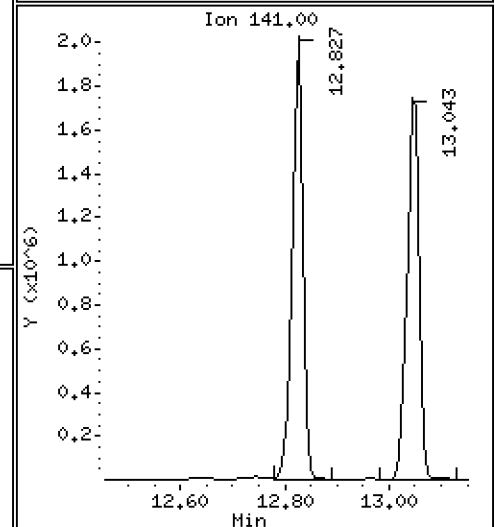
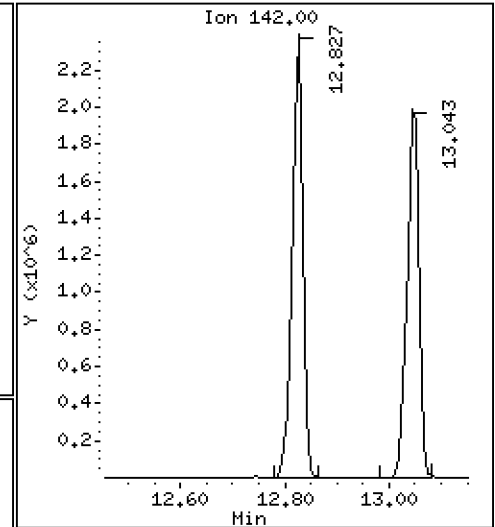
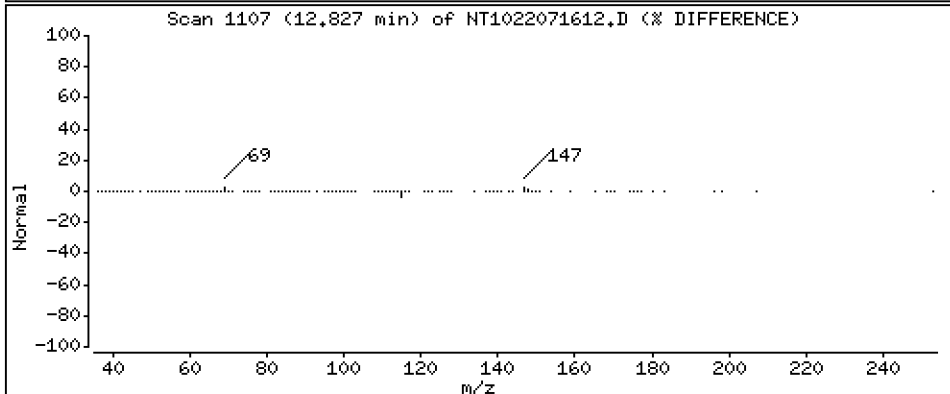
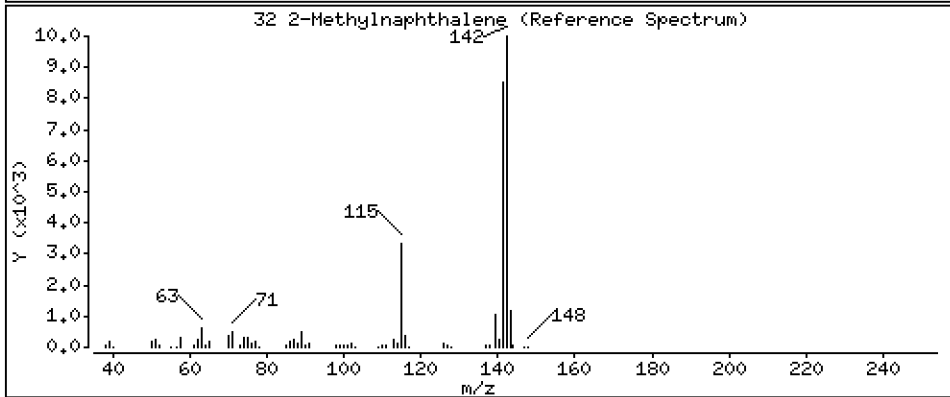
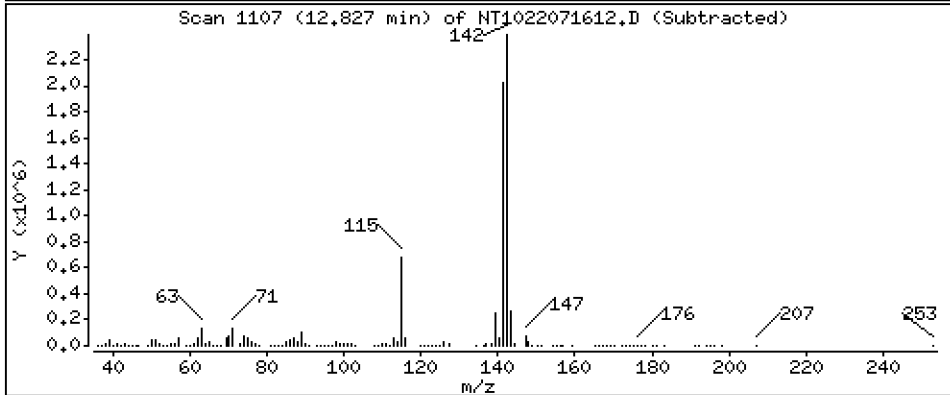
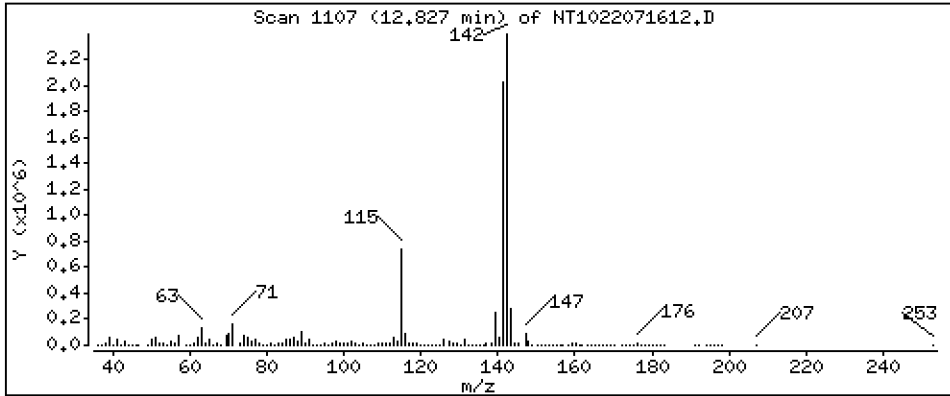
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 1569 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

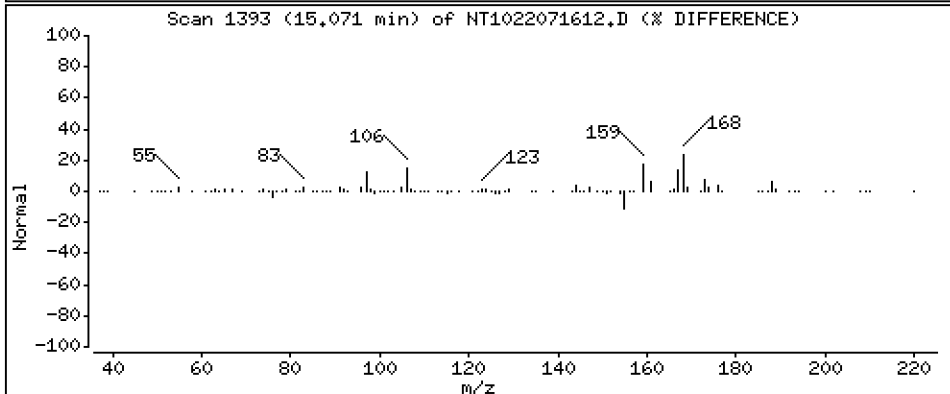
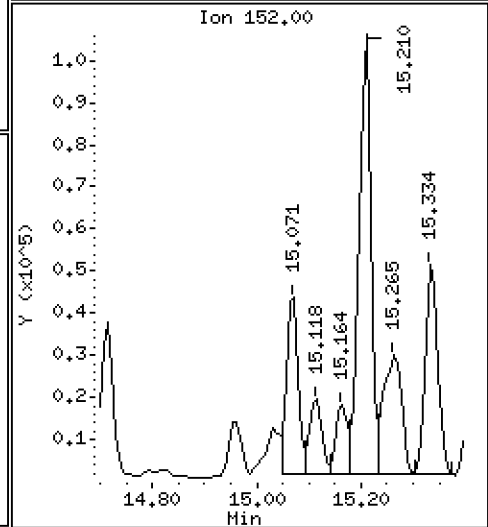
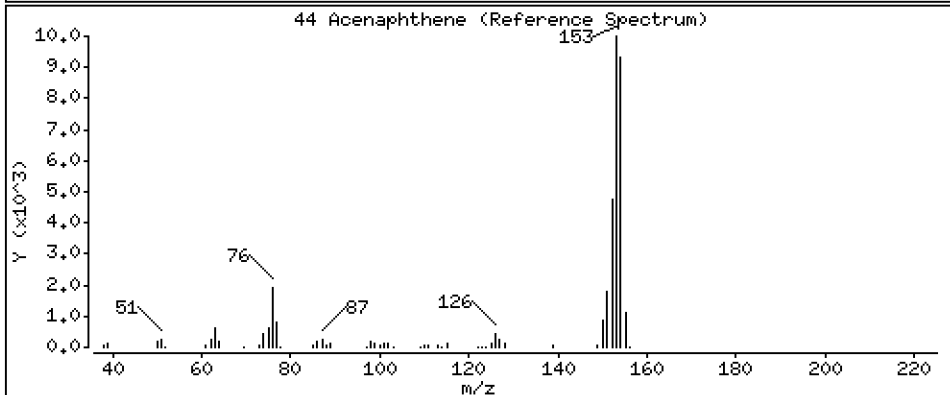
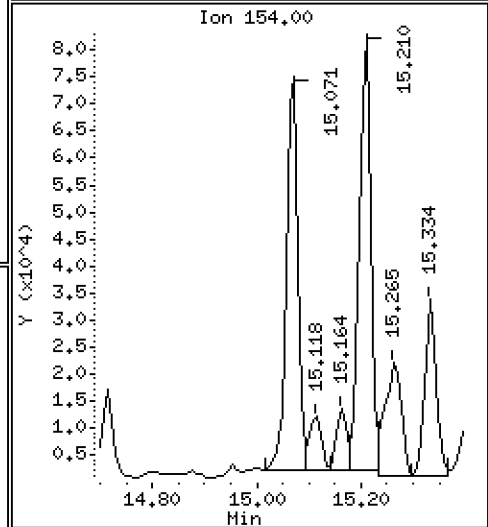
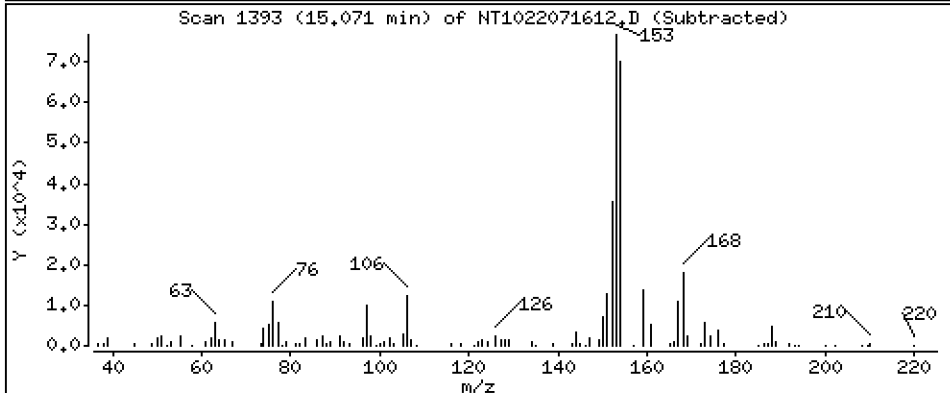
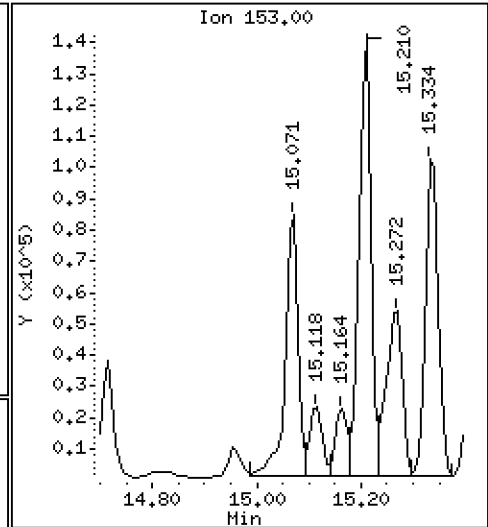
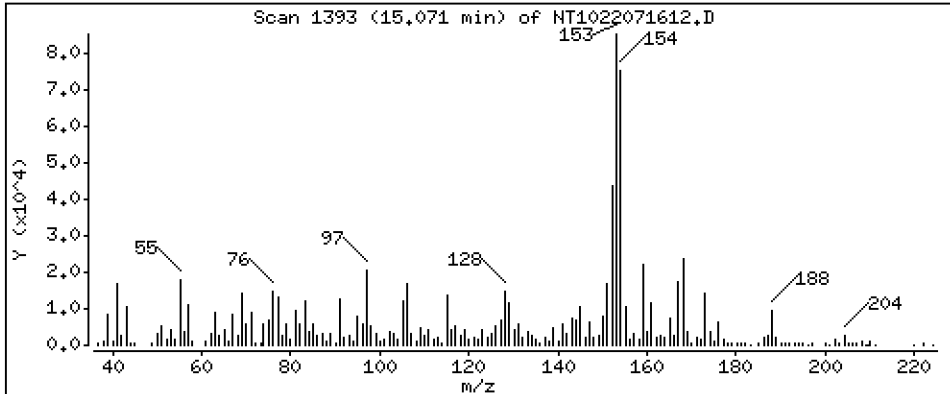
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 380,6 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

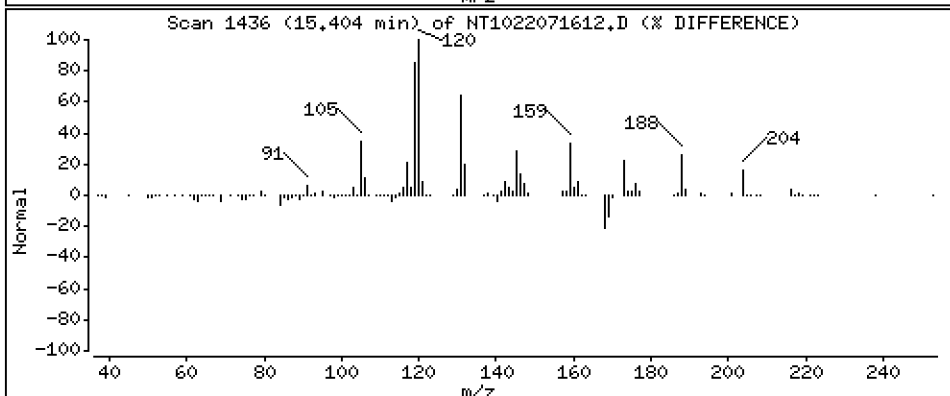
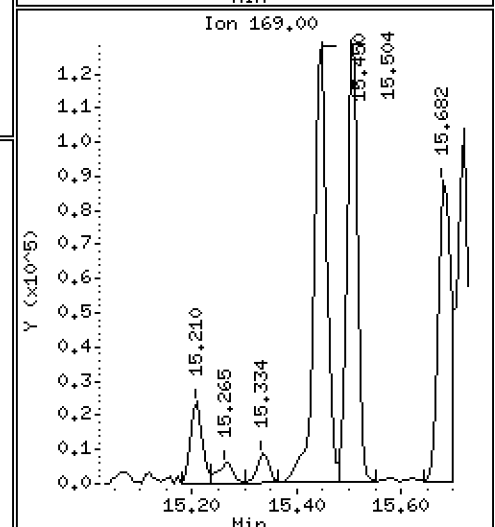
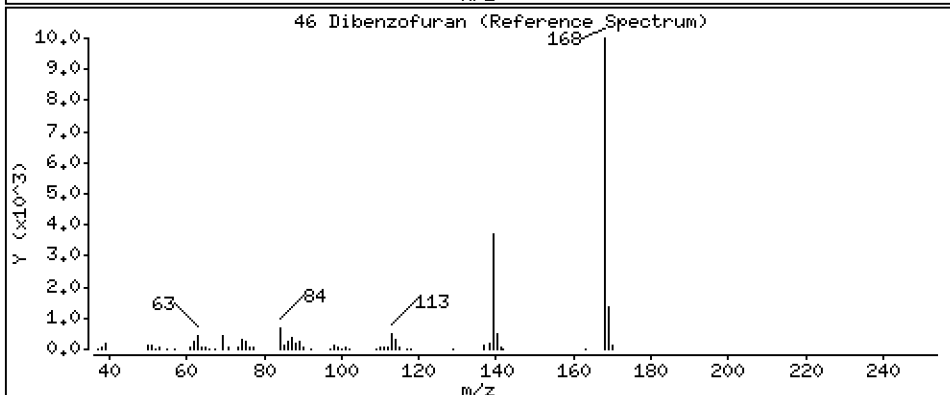
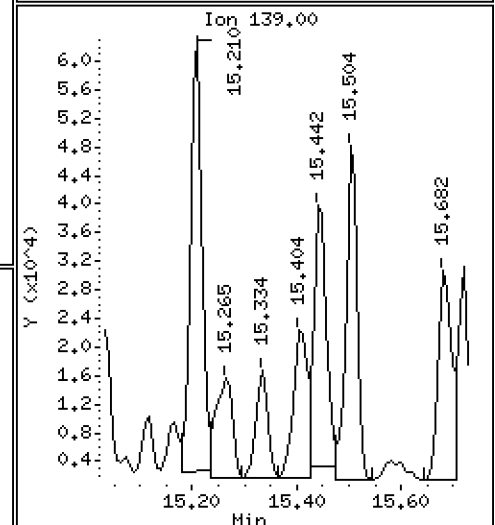
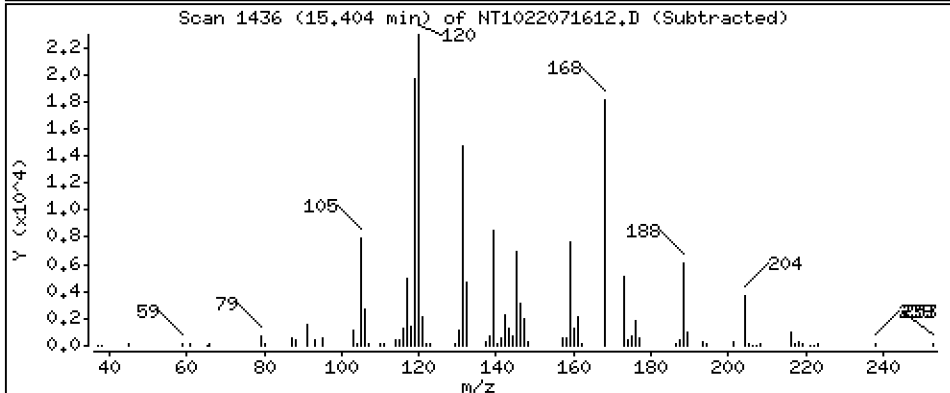
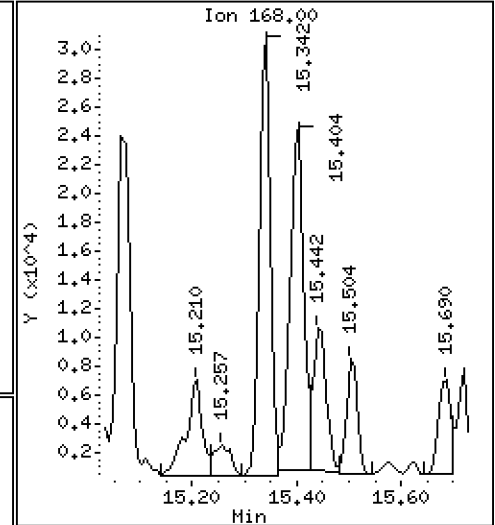
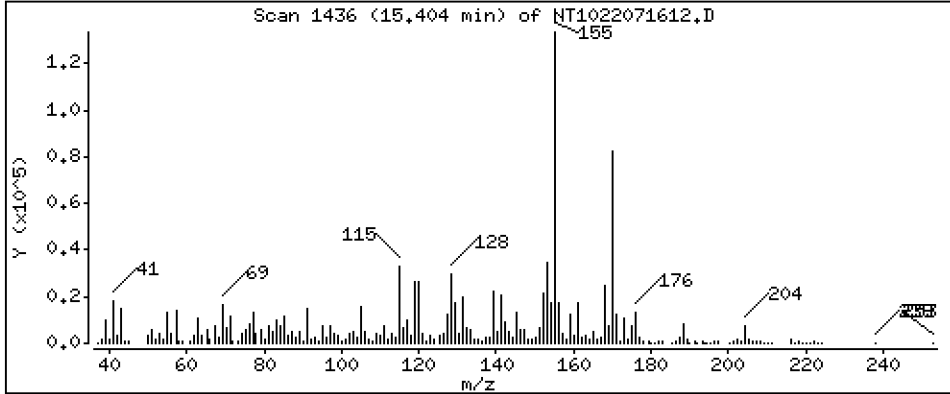
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 62.73 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

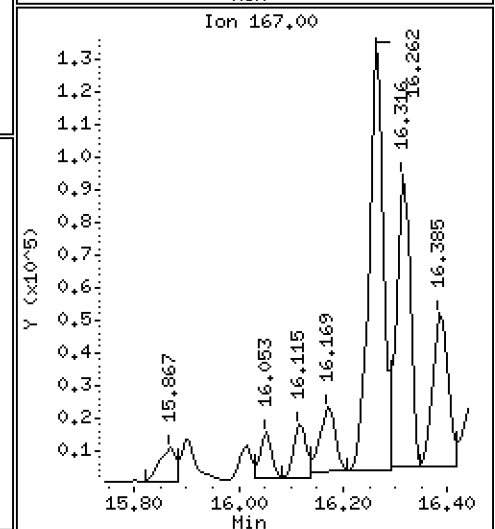
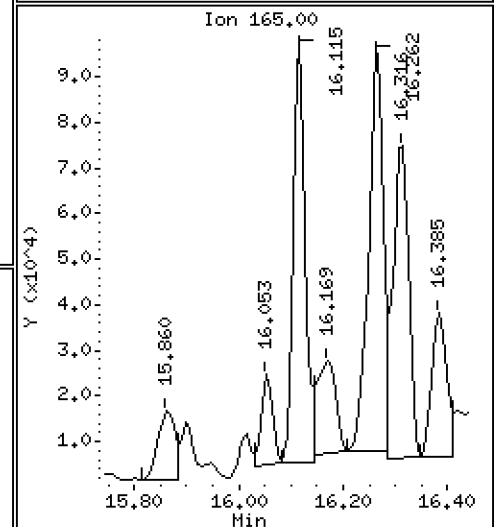
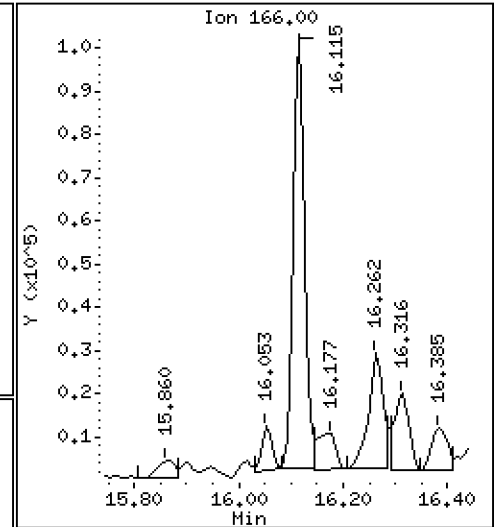
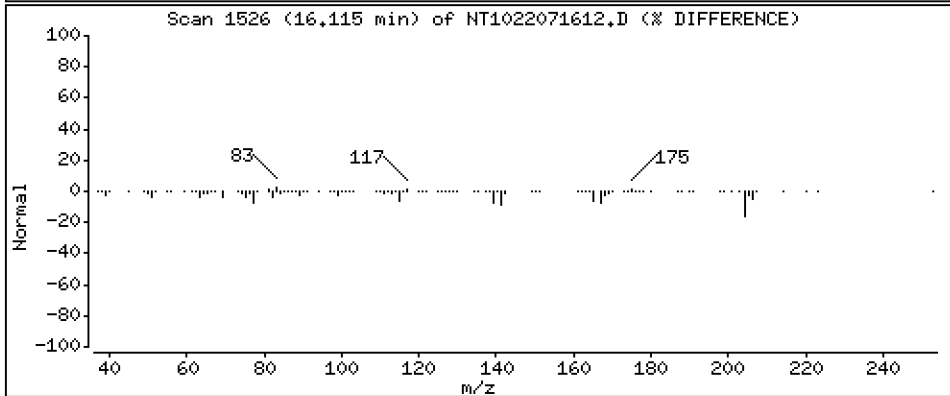
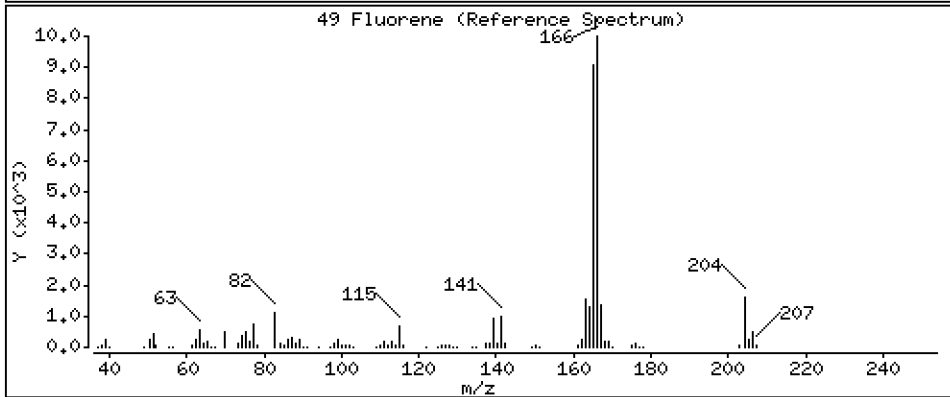
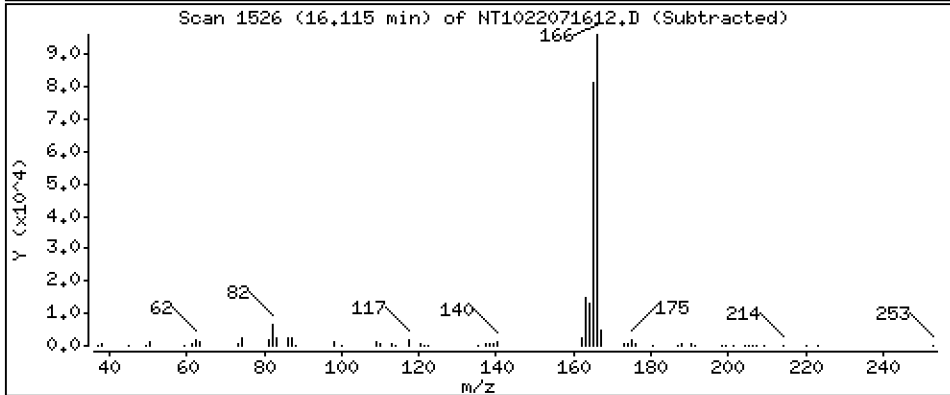
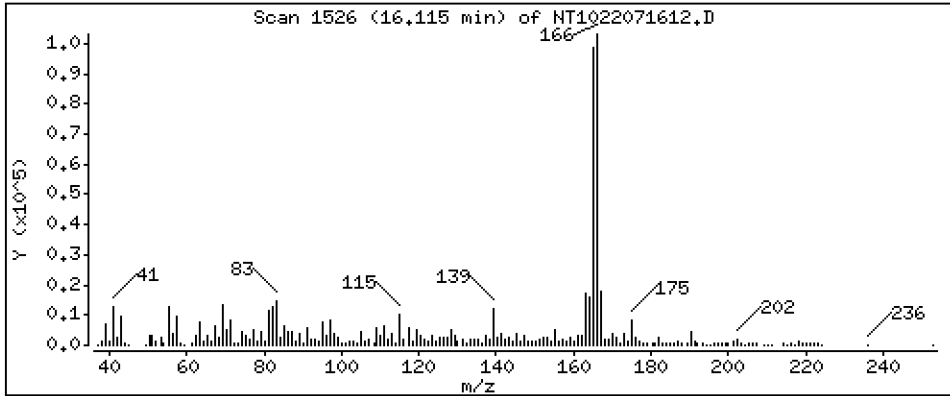
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 185,8 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

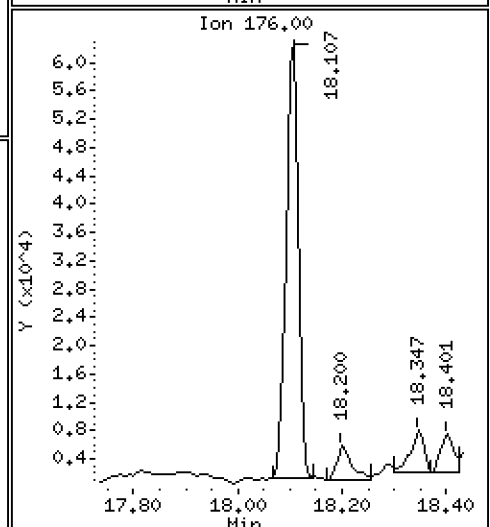
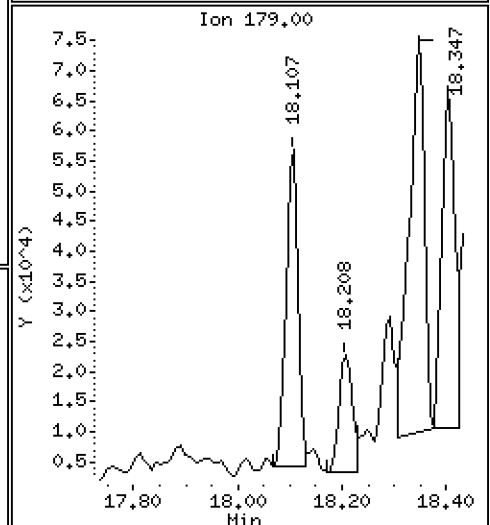
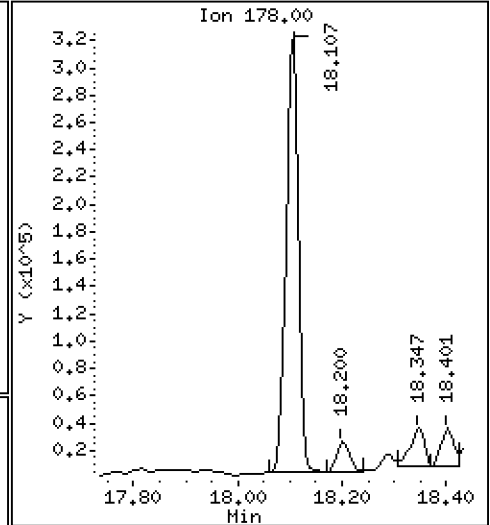
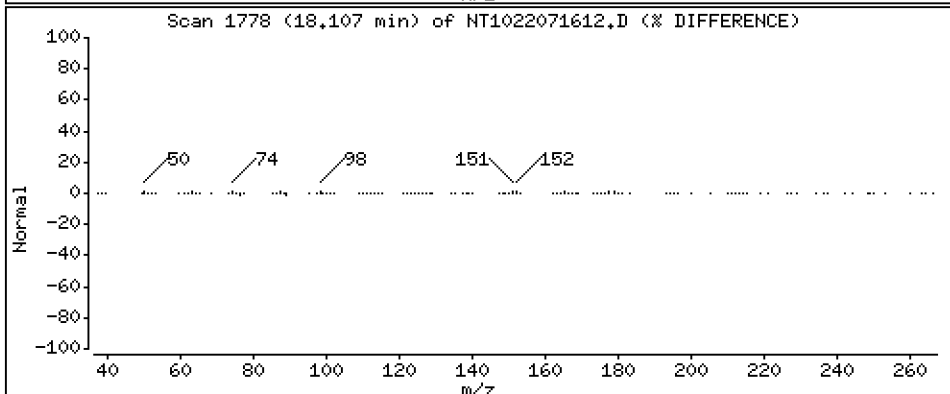
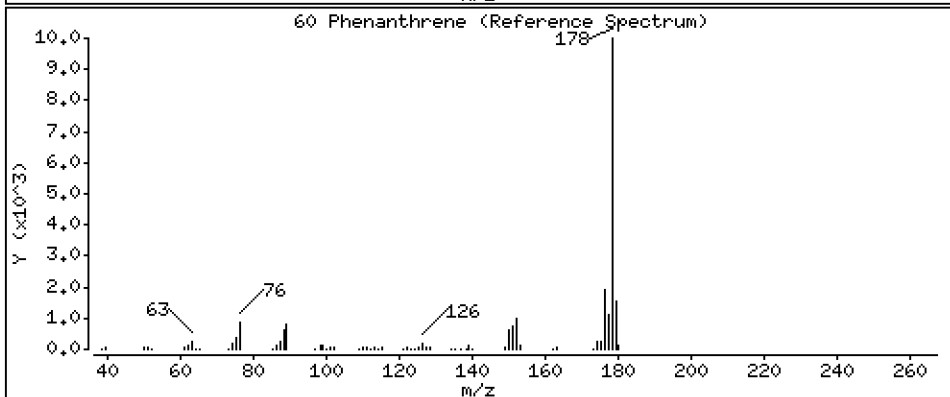
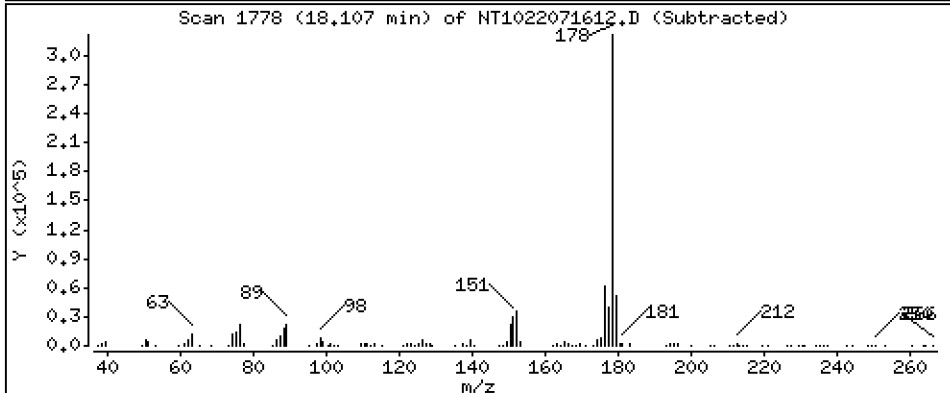
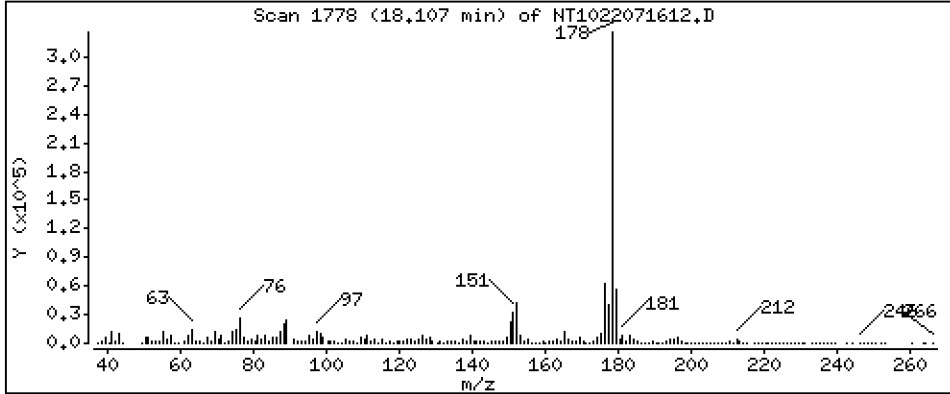
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 716,5 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

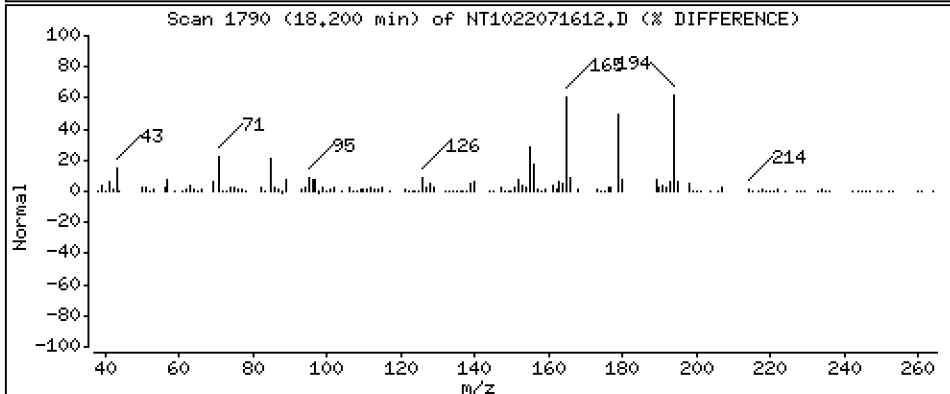
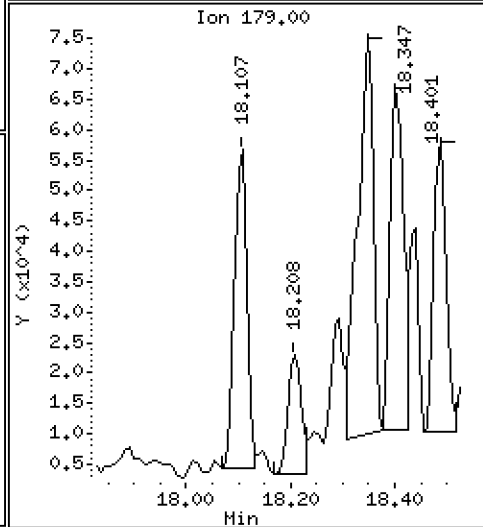
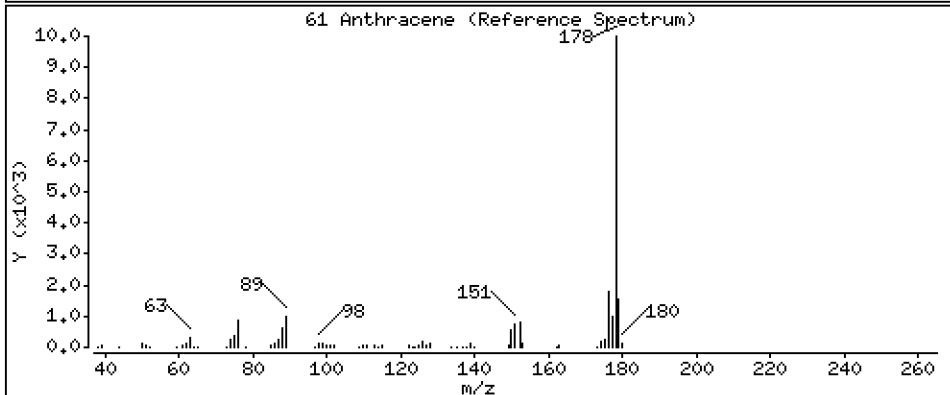
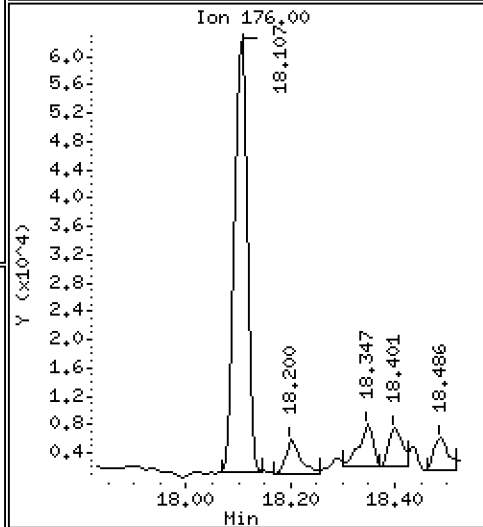
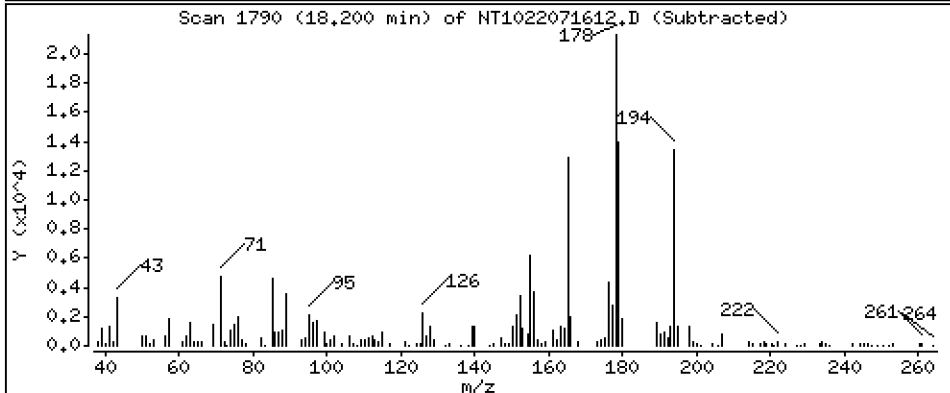
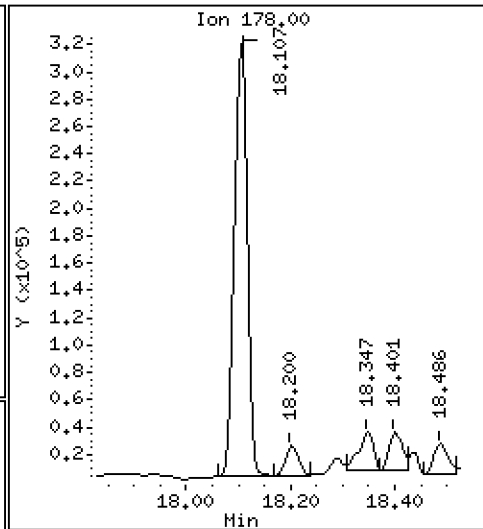
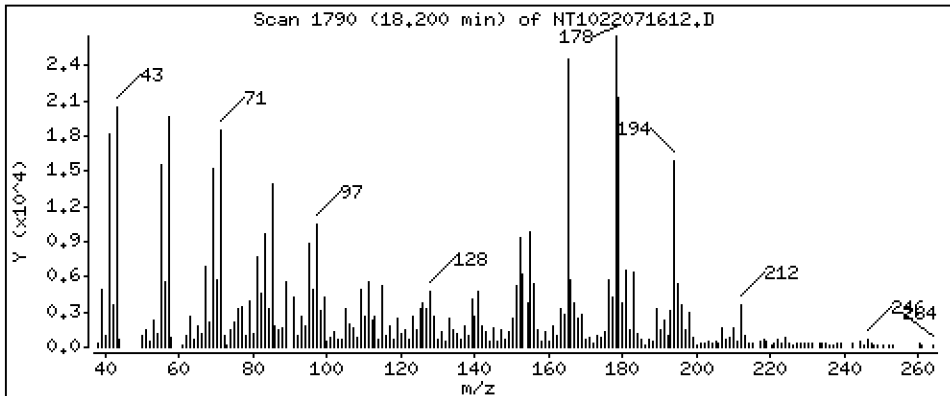
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 53,25 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

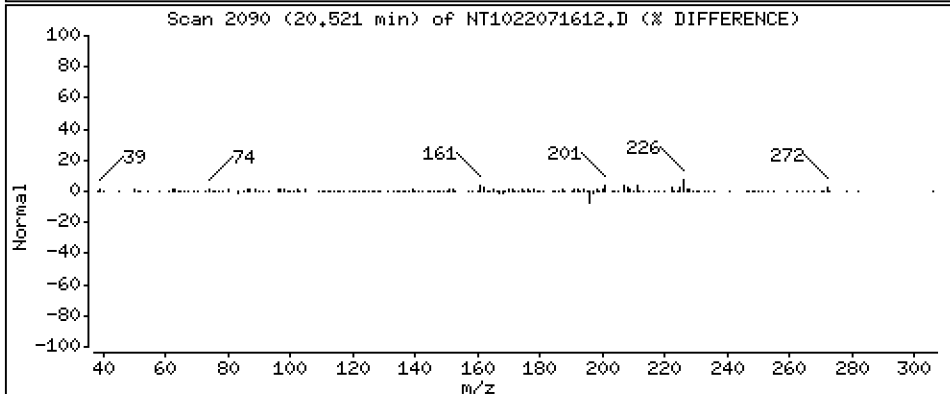
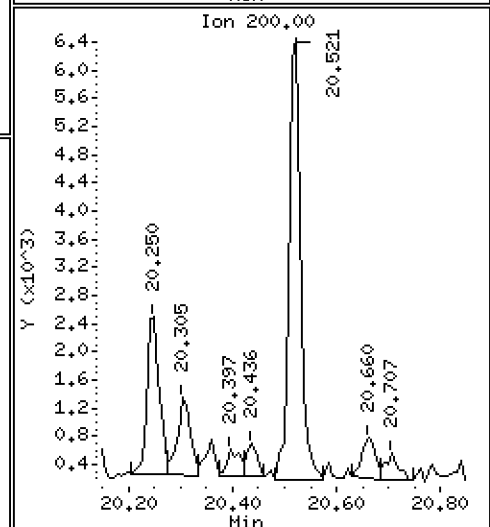
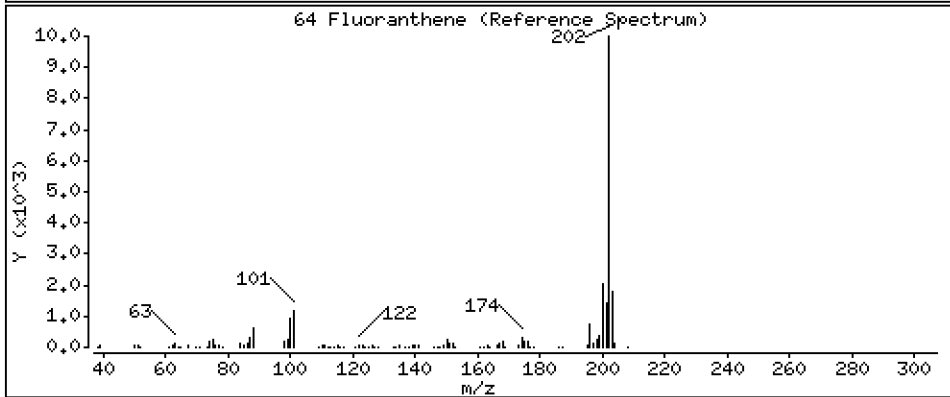
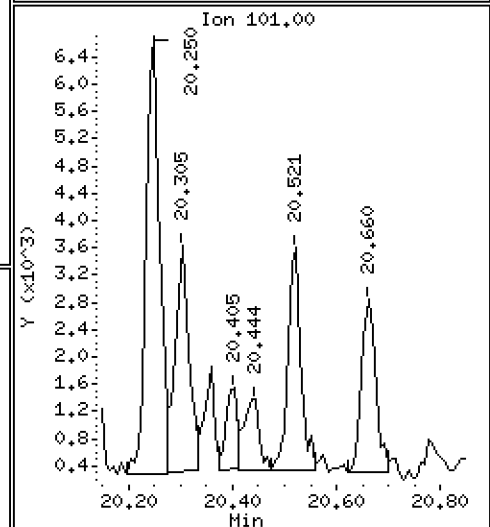
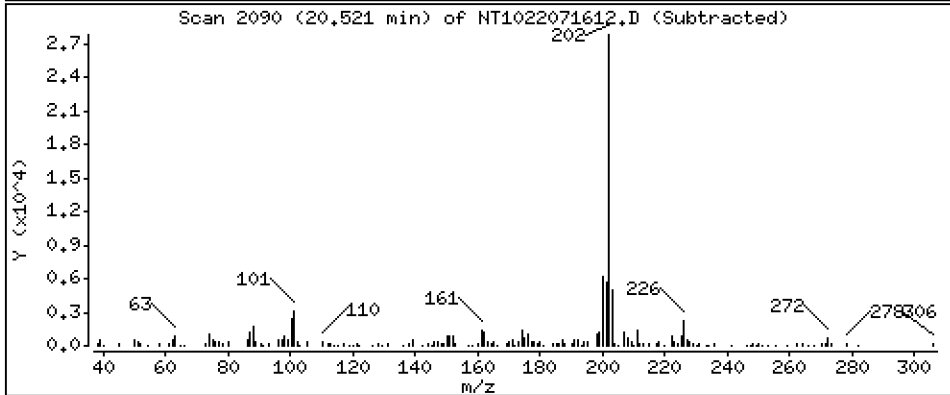
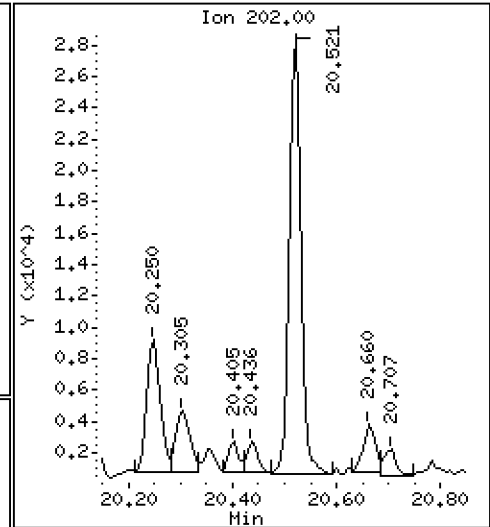
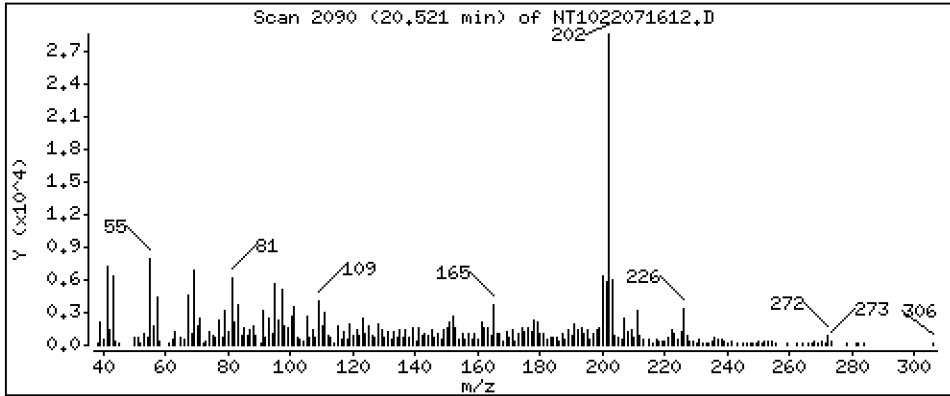
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 39,10 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

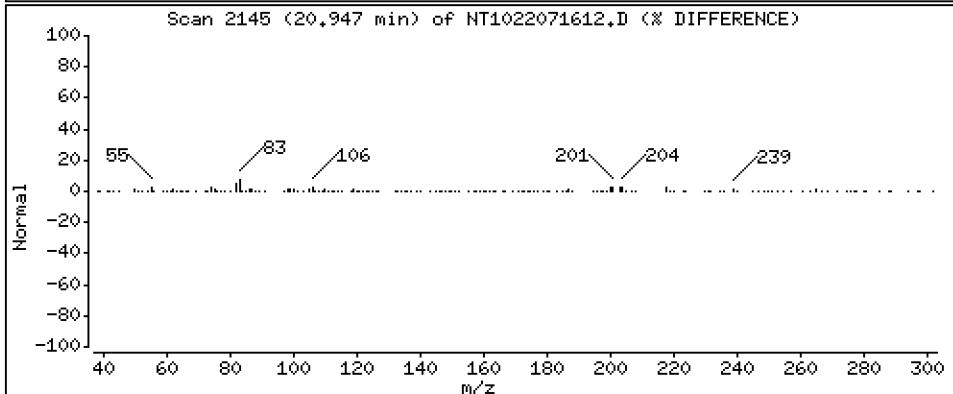
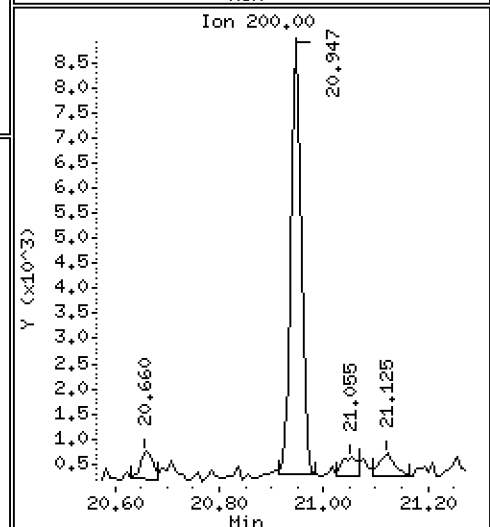
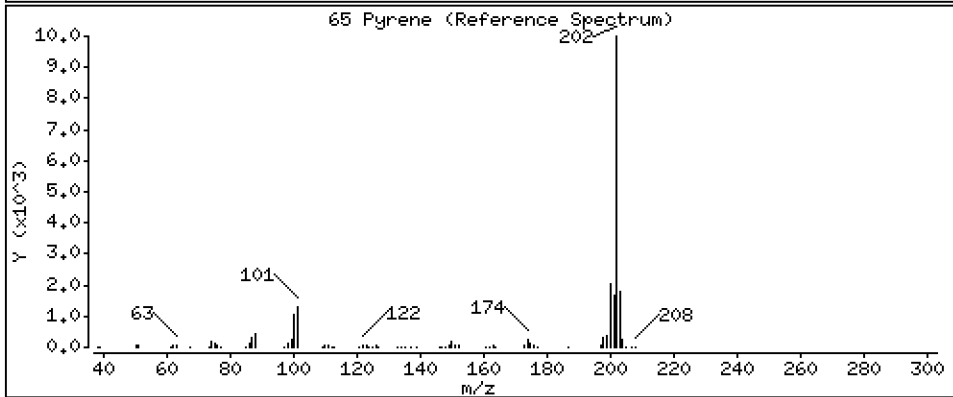
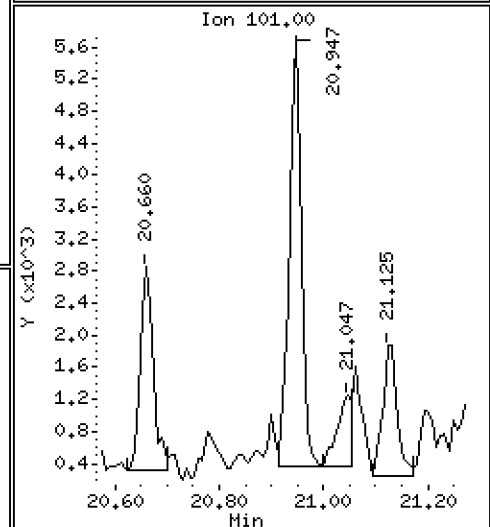
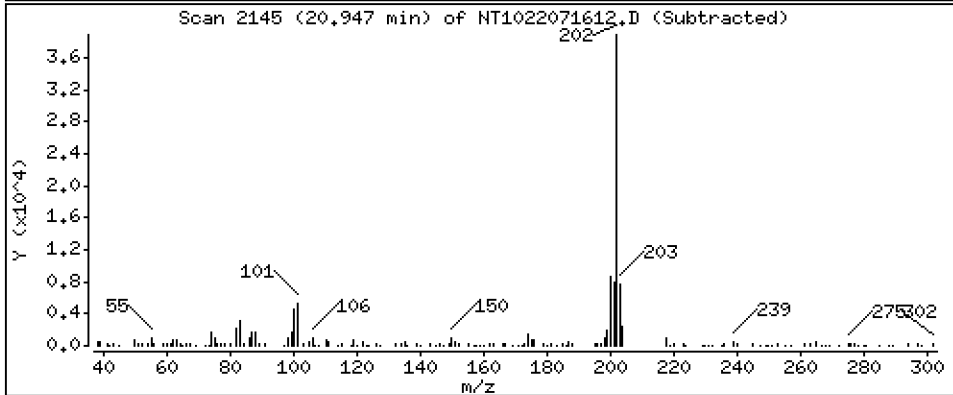
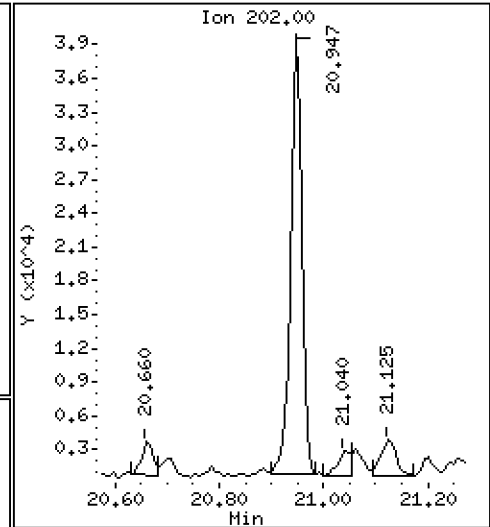
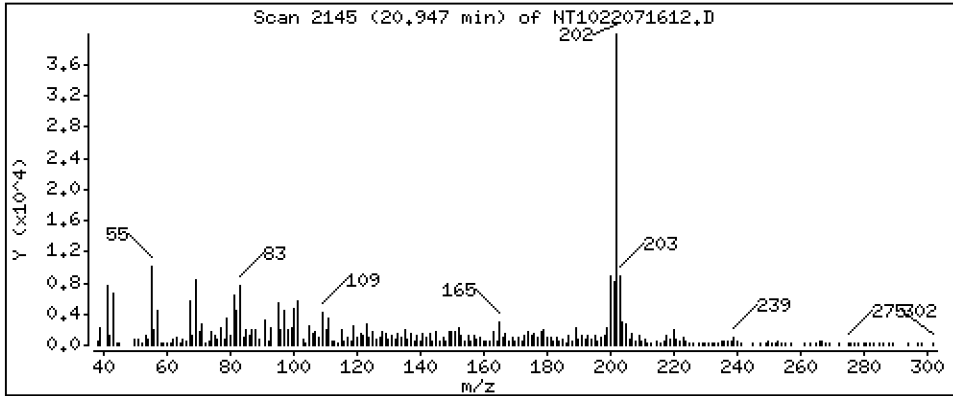
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 58,94 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

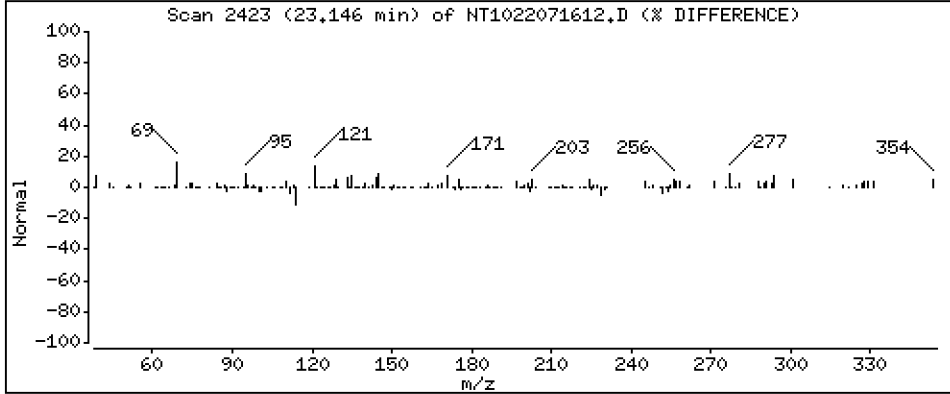
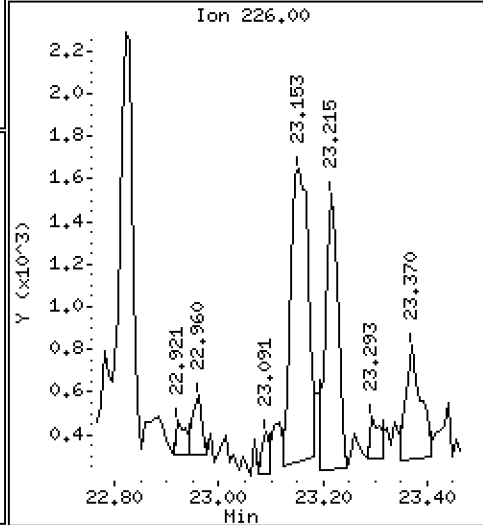
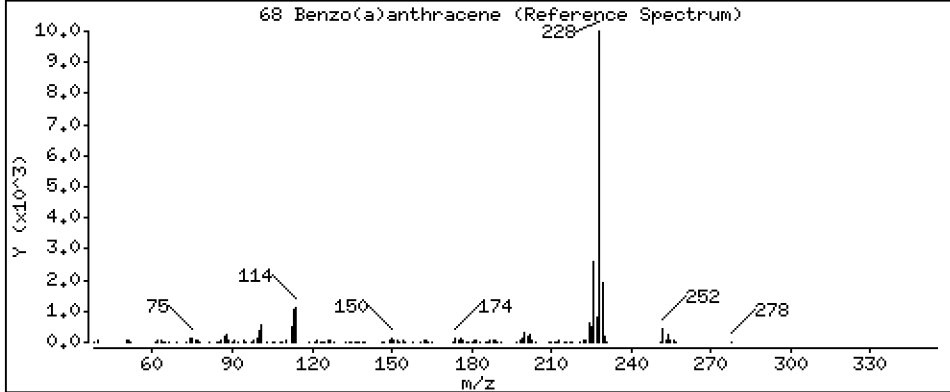
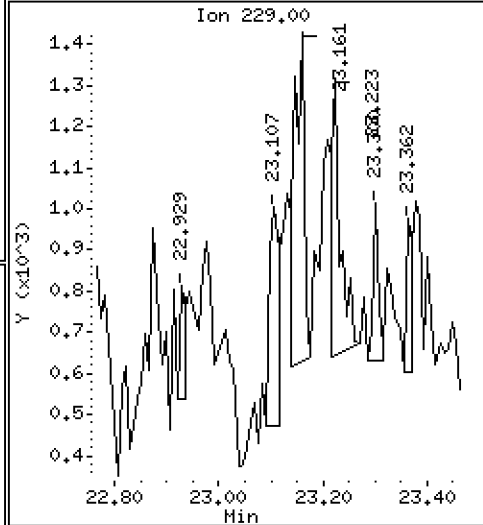
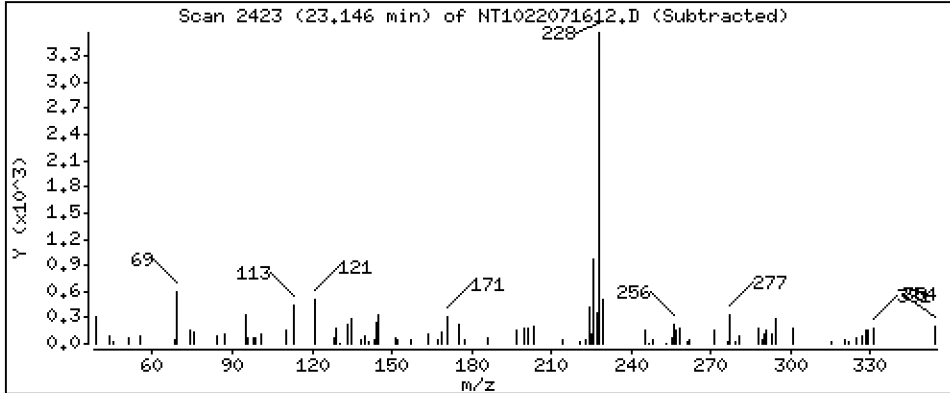
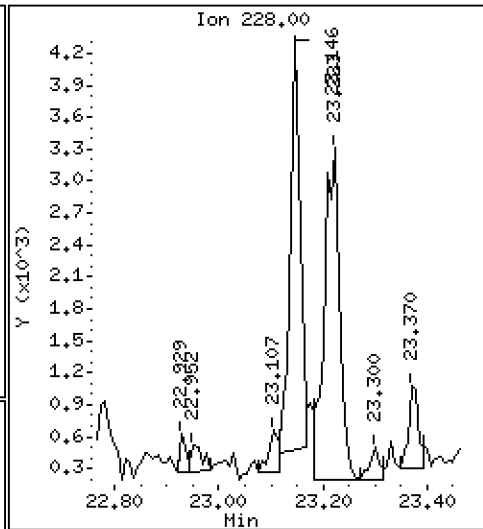
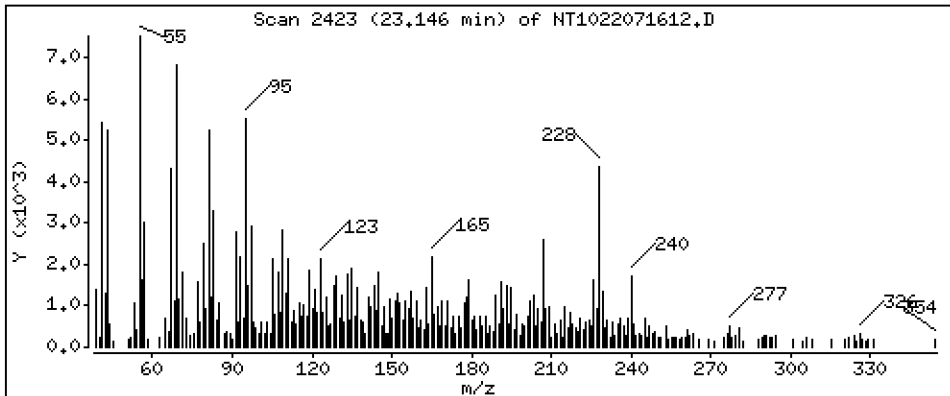
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 8,030 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

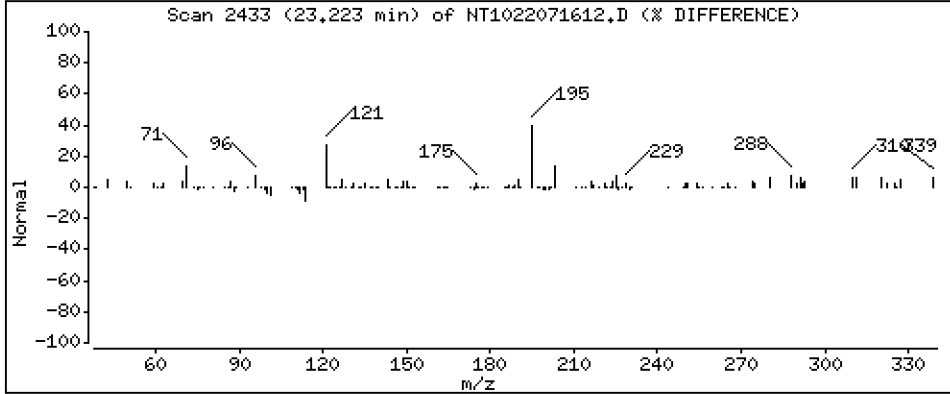
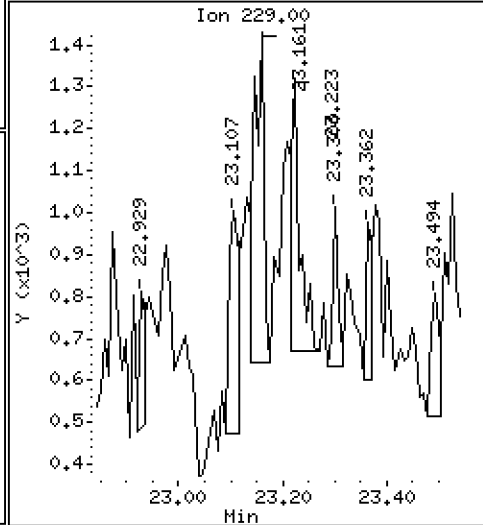
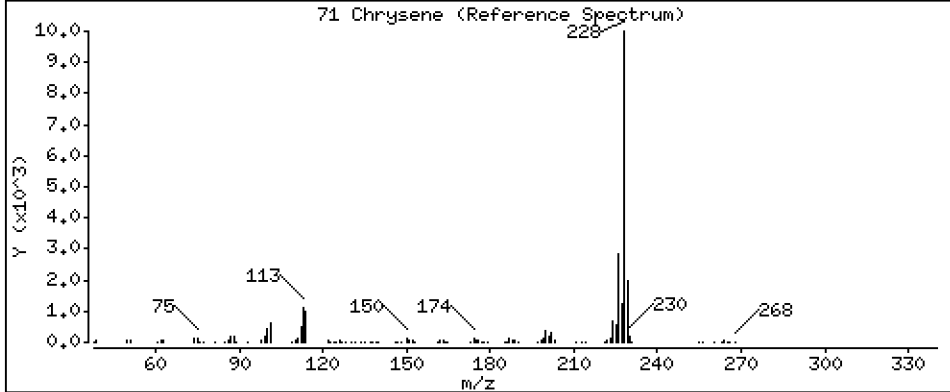
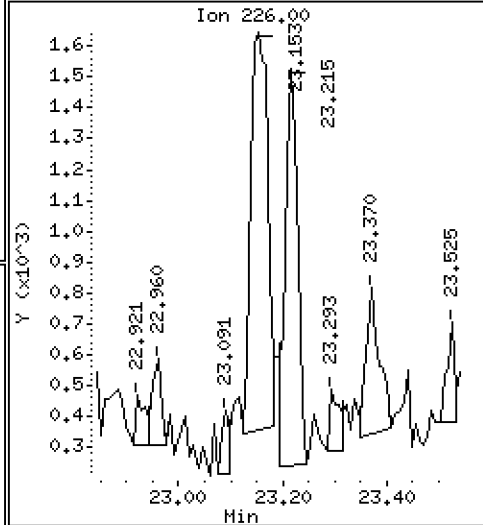
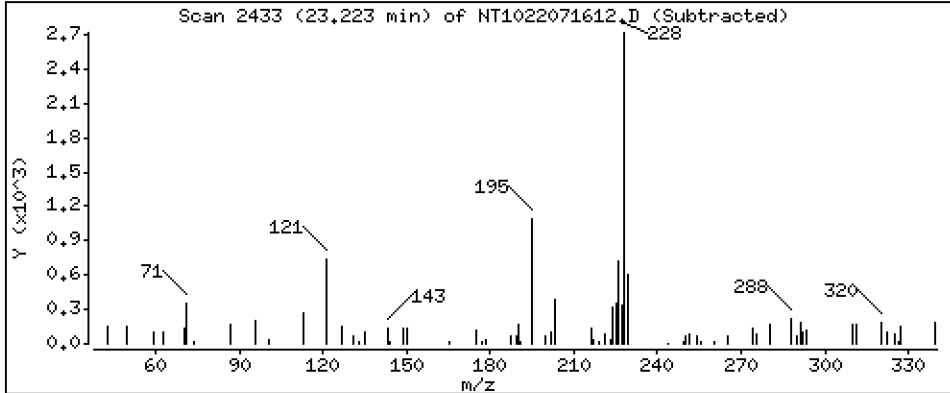
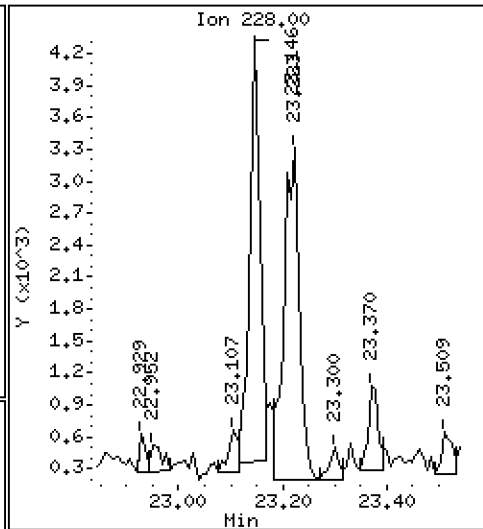
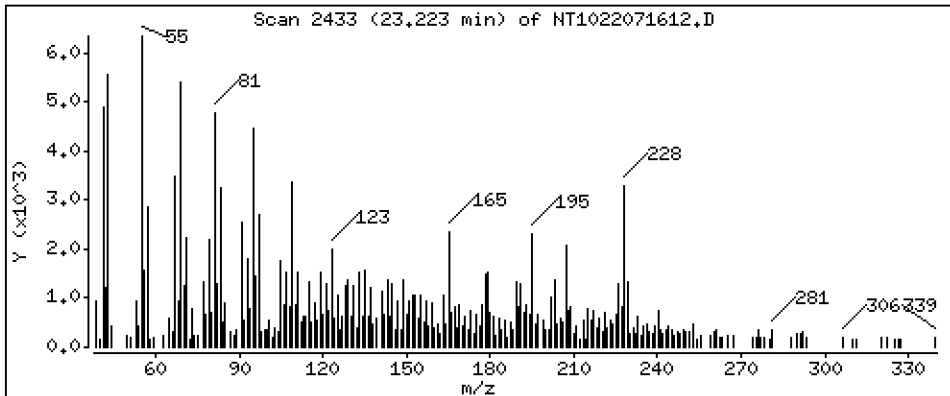
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 14.71 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

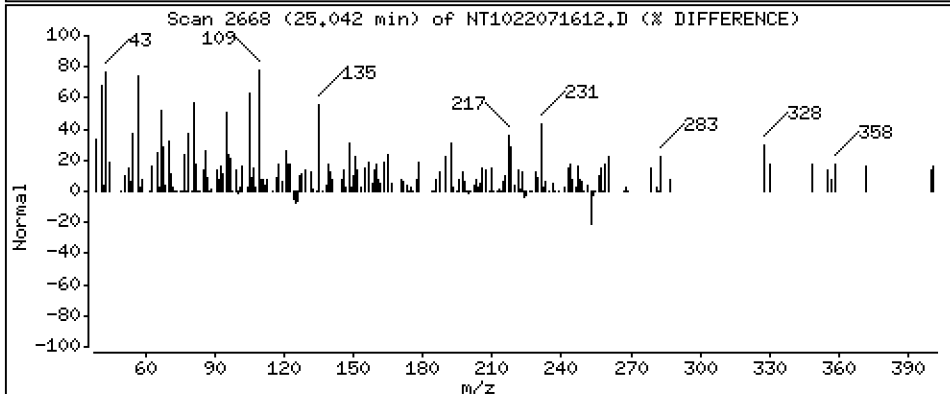
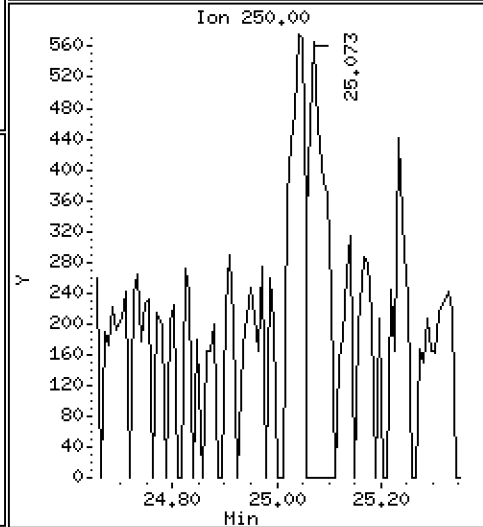
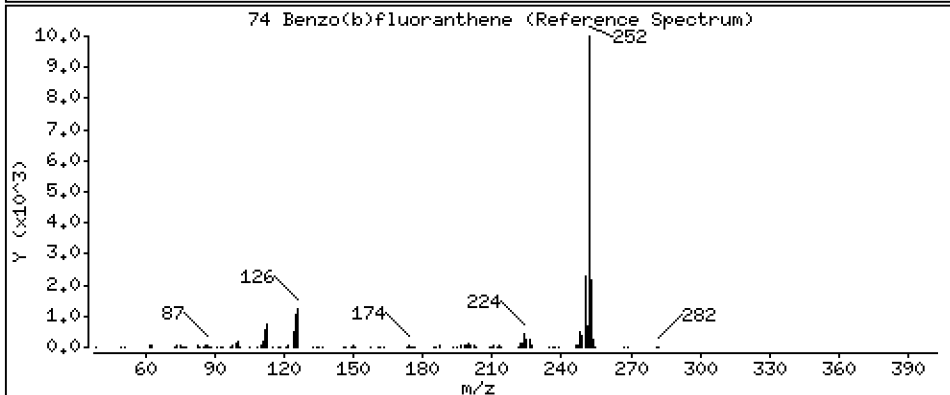
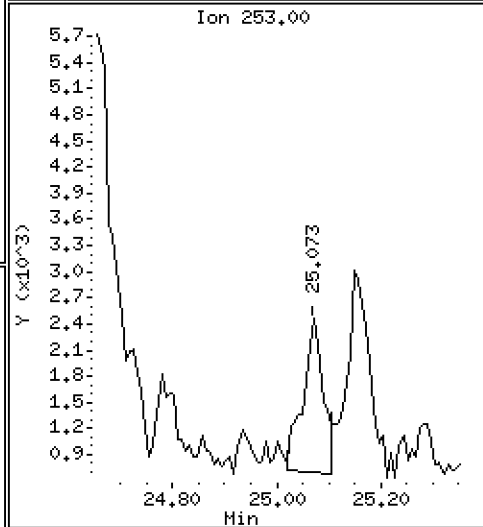
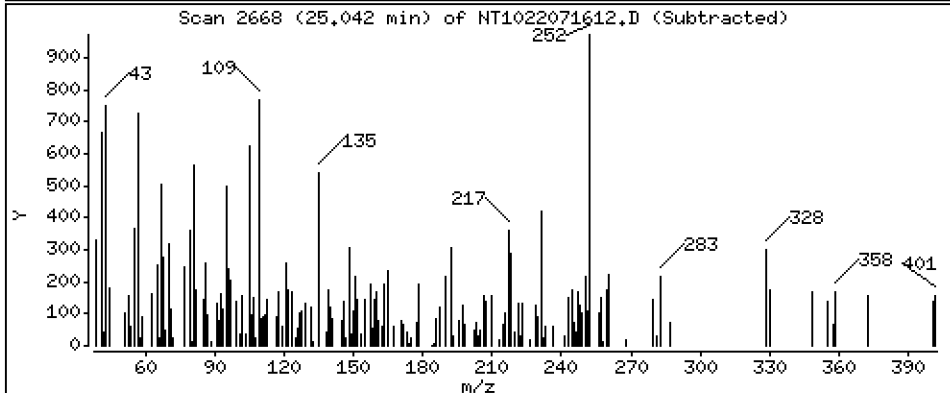
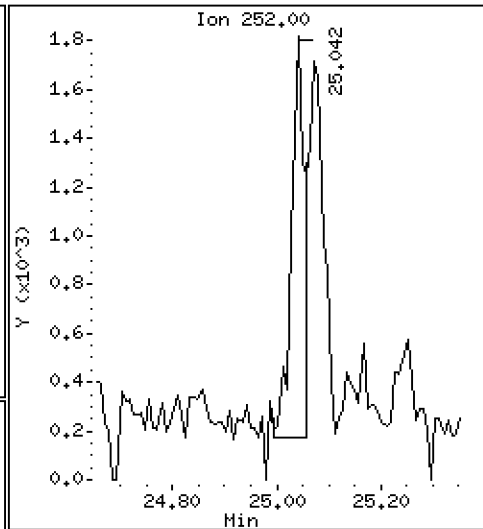
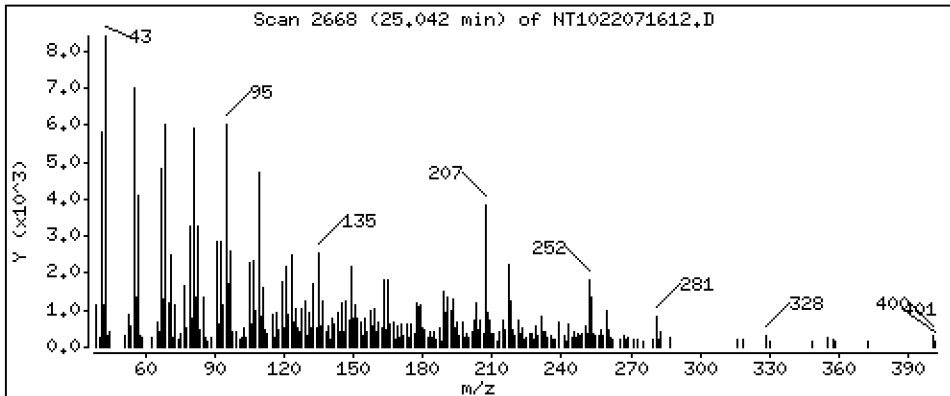
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 5,331 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

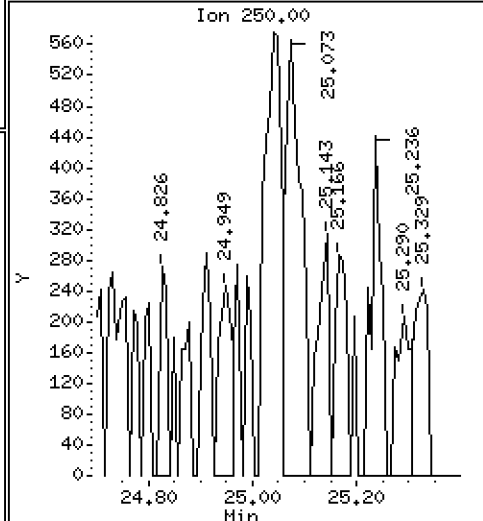
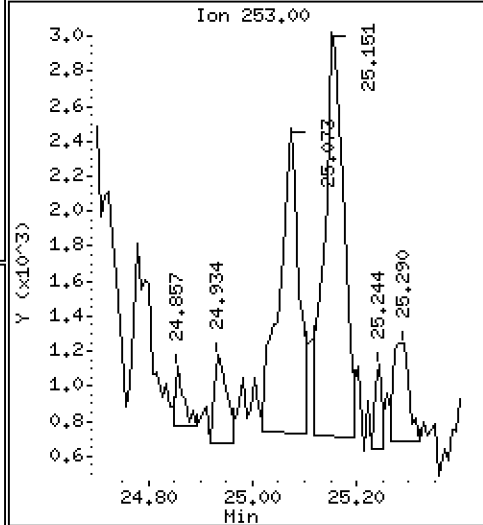
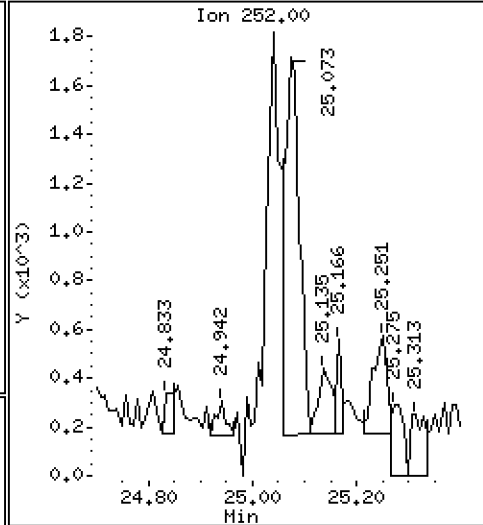
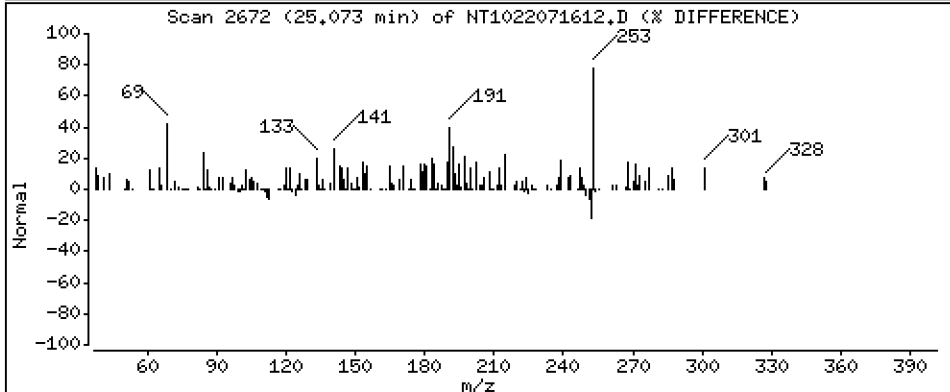
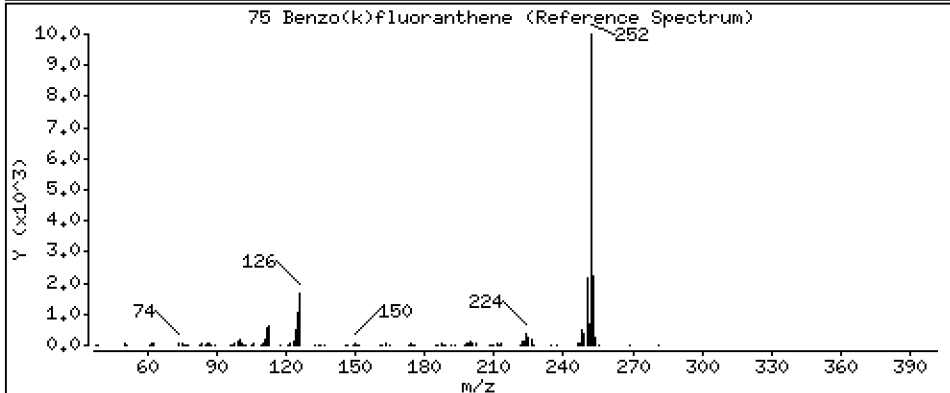
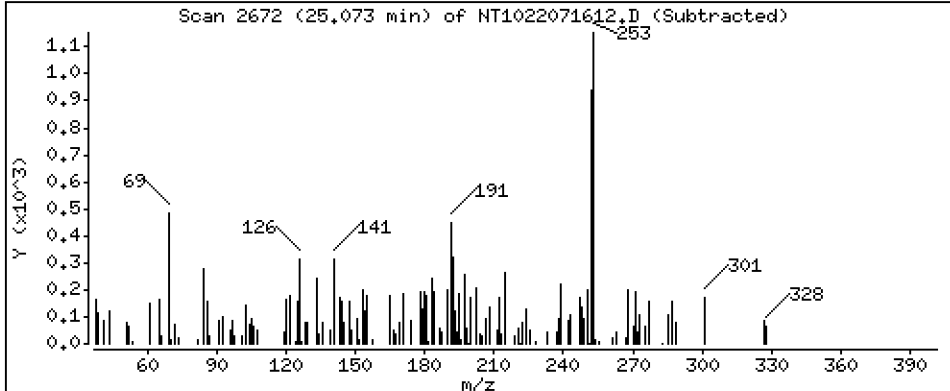
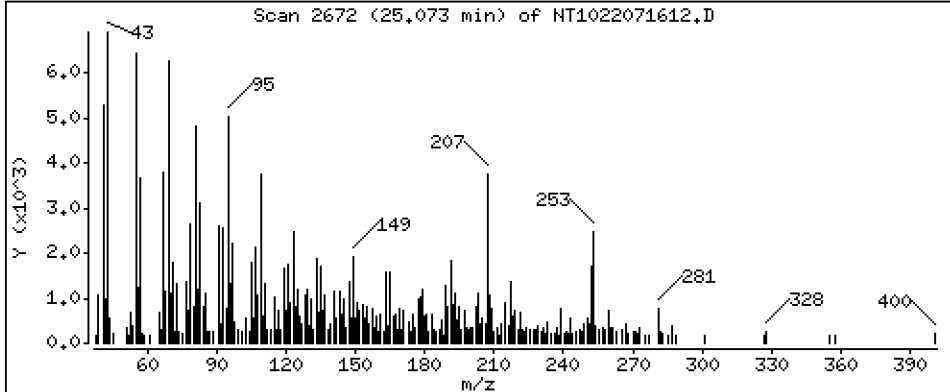
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 6,057 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

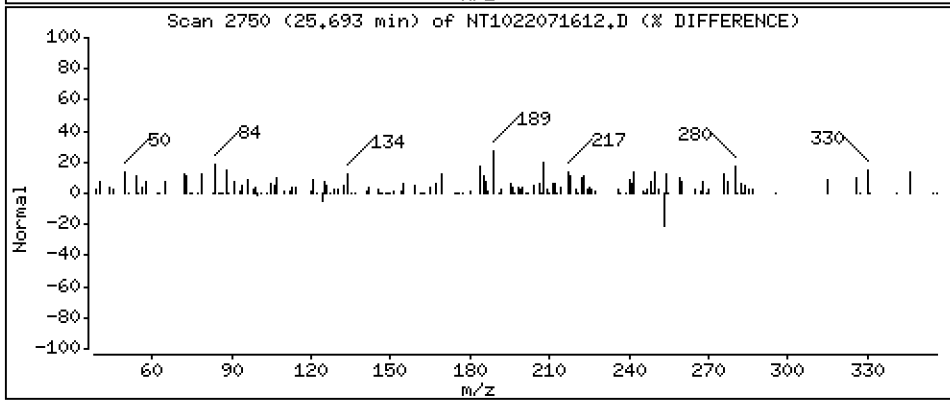
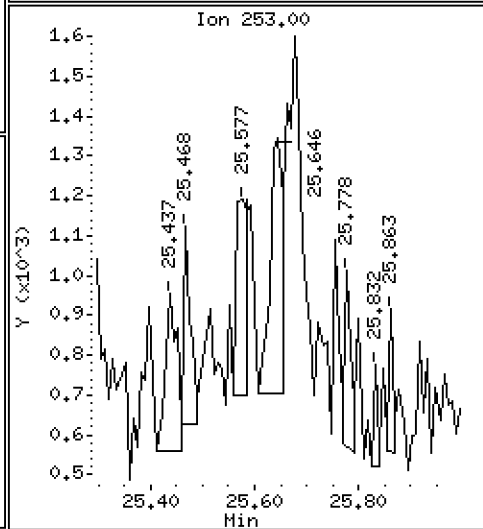
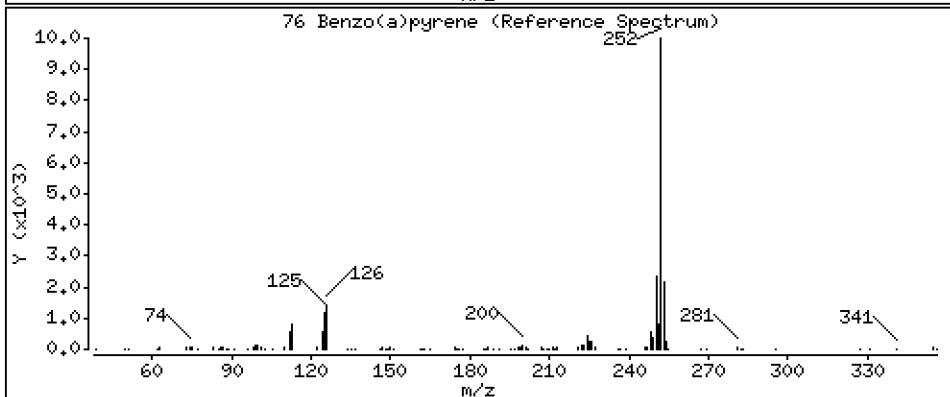
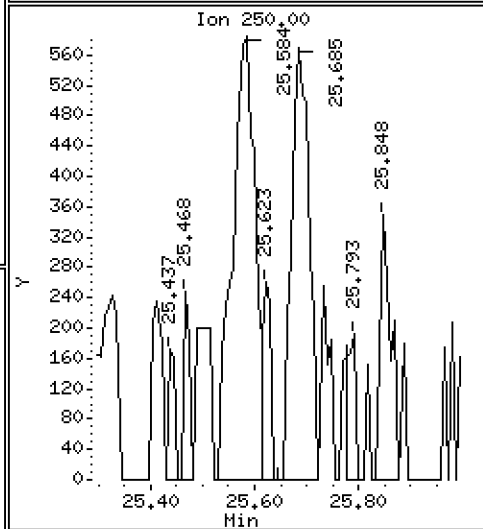
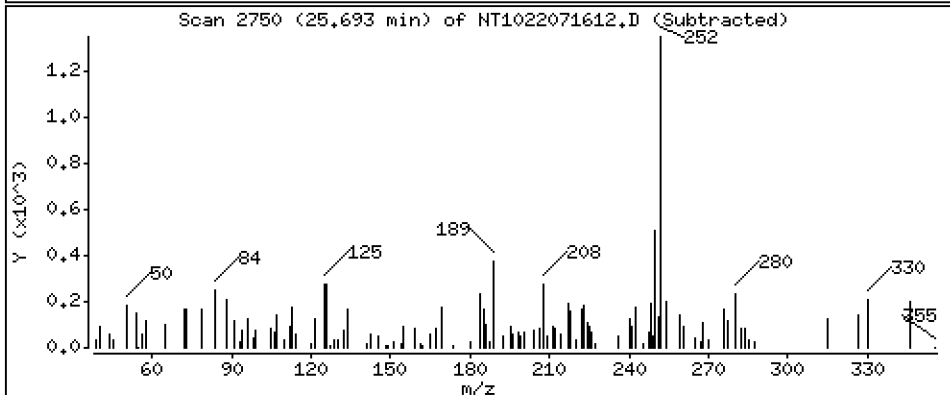
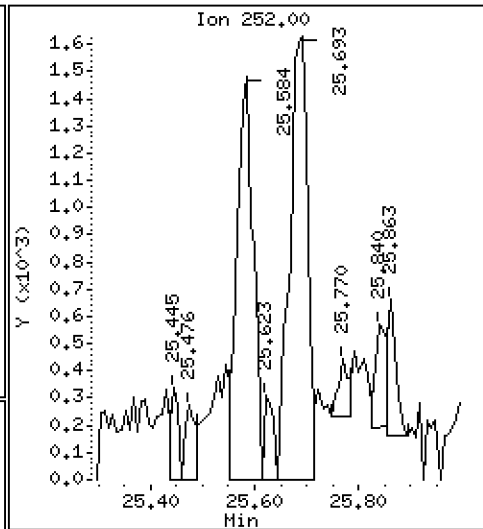
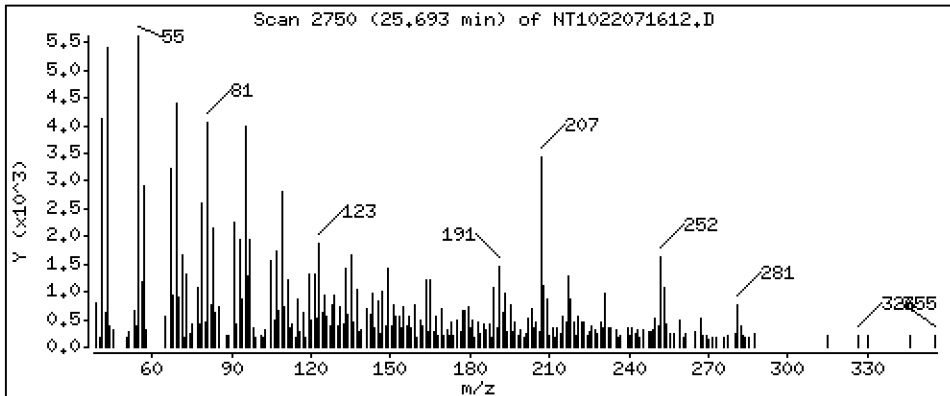
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 8,945 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

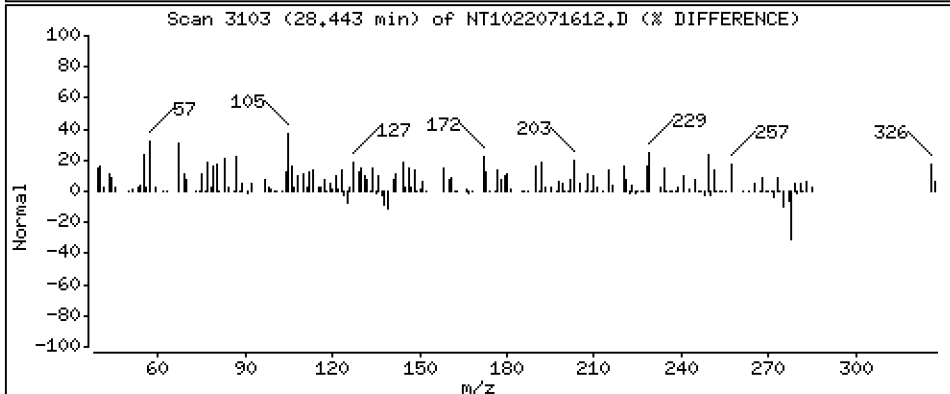
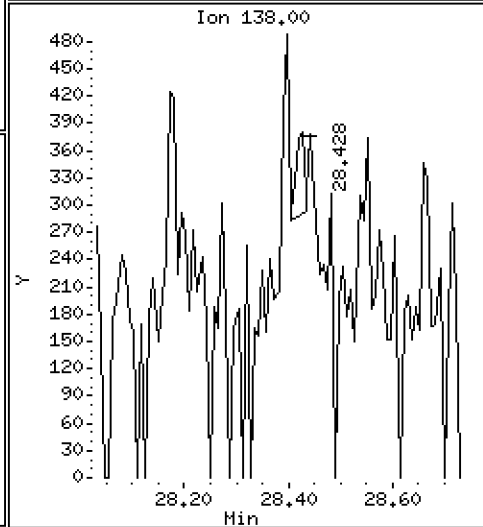
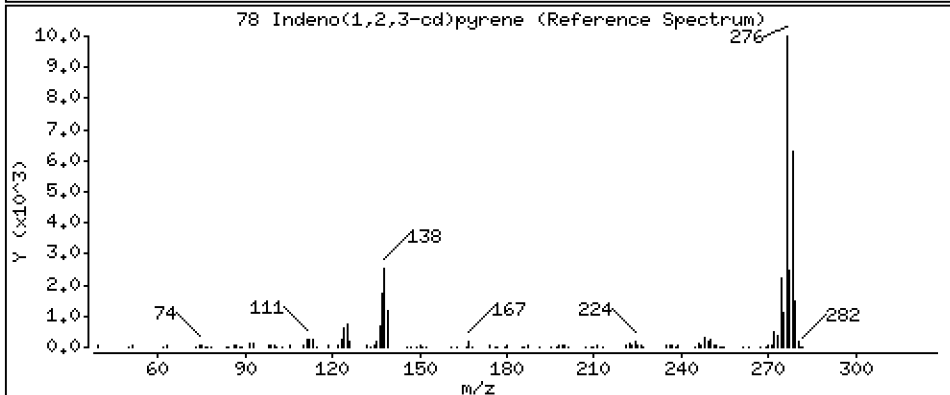
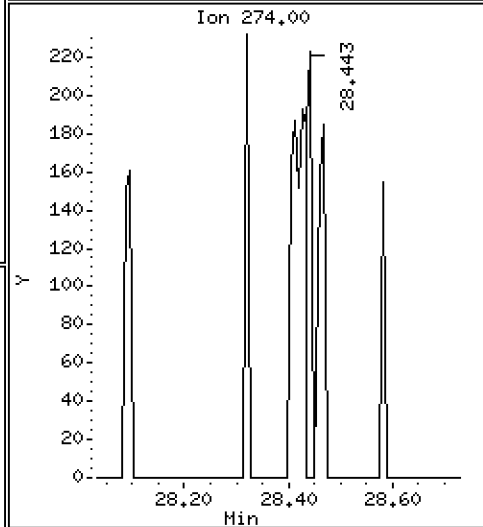
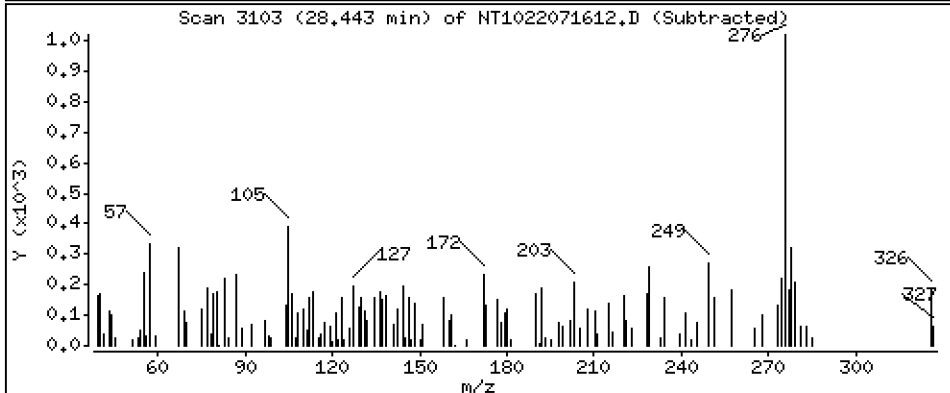
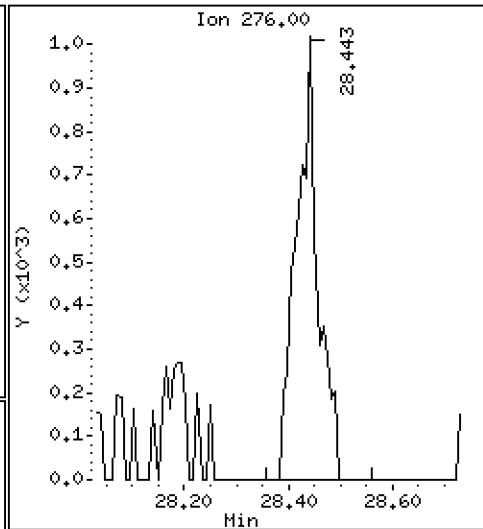
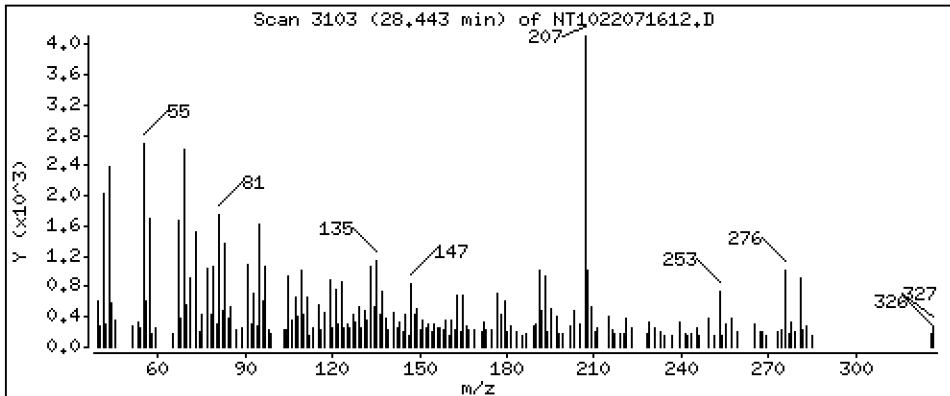
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 6,076 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

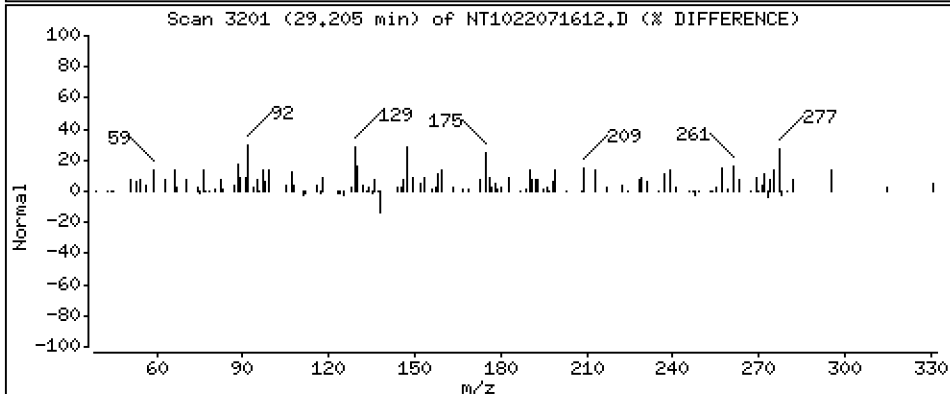
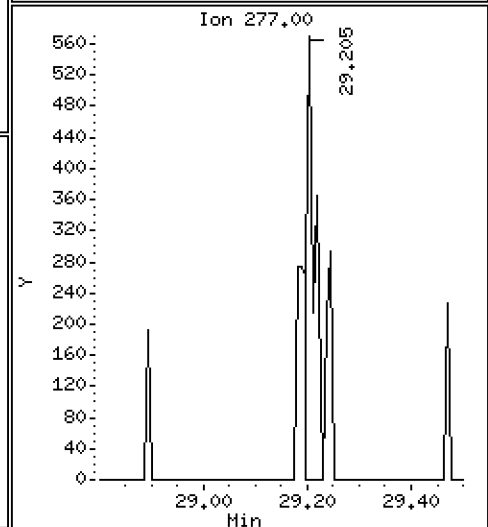
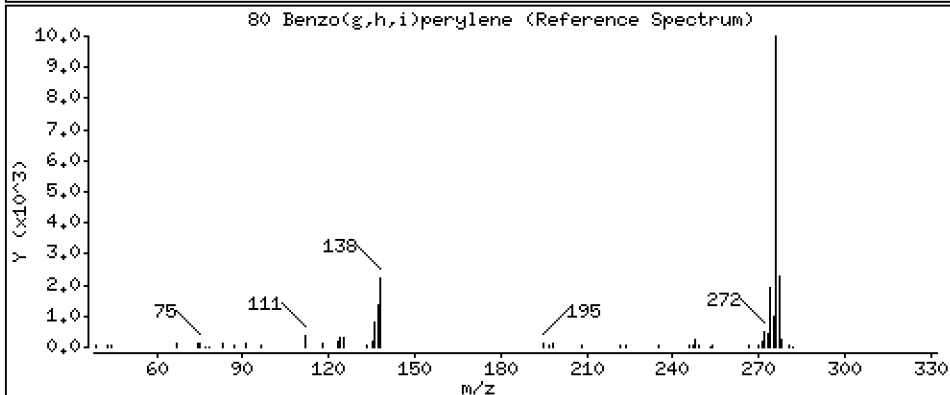
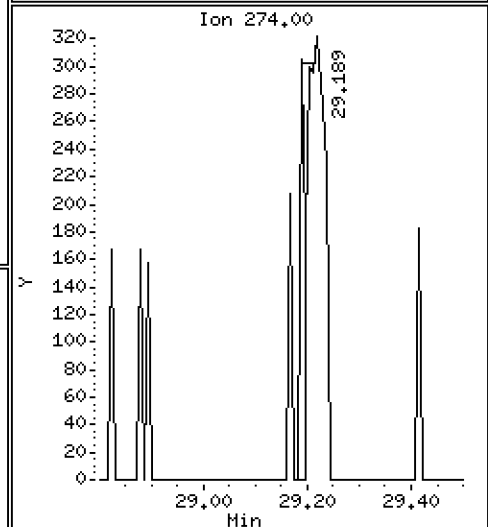
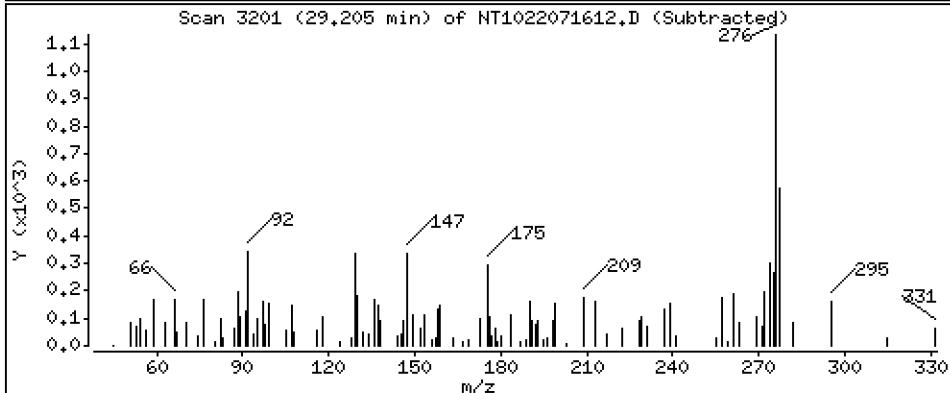
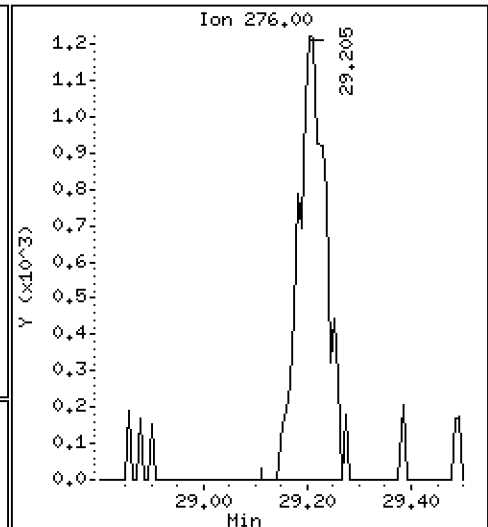
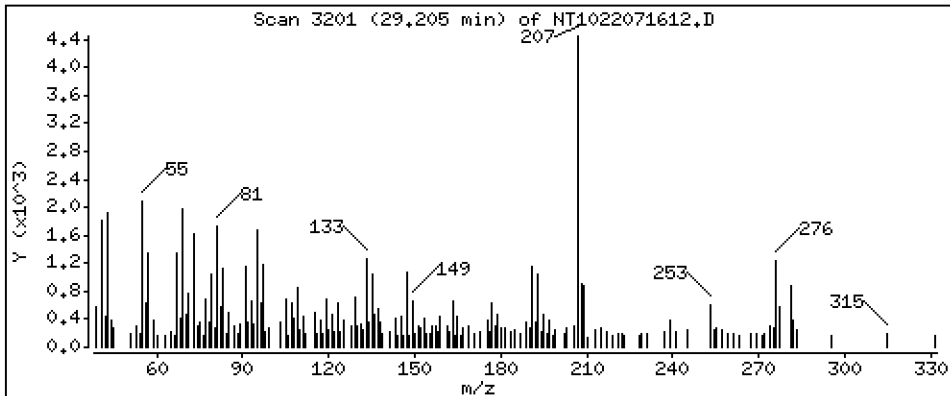
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 11,53 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

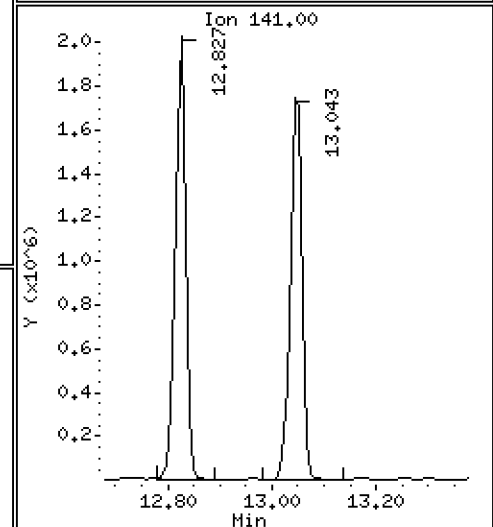
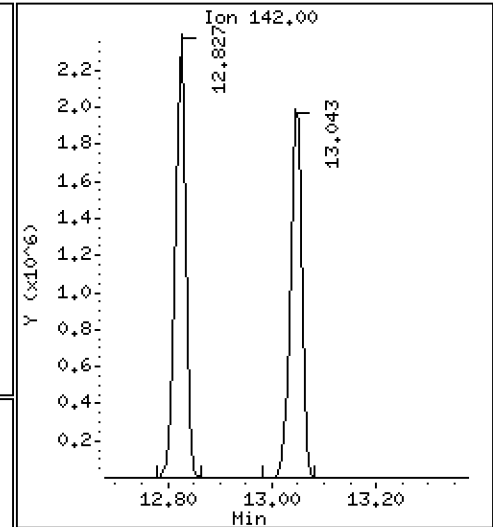
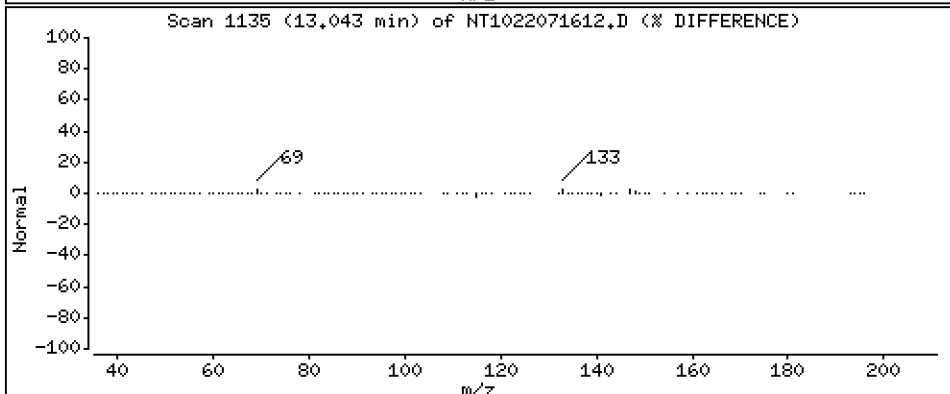
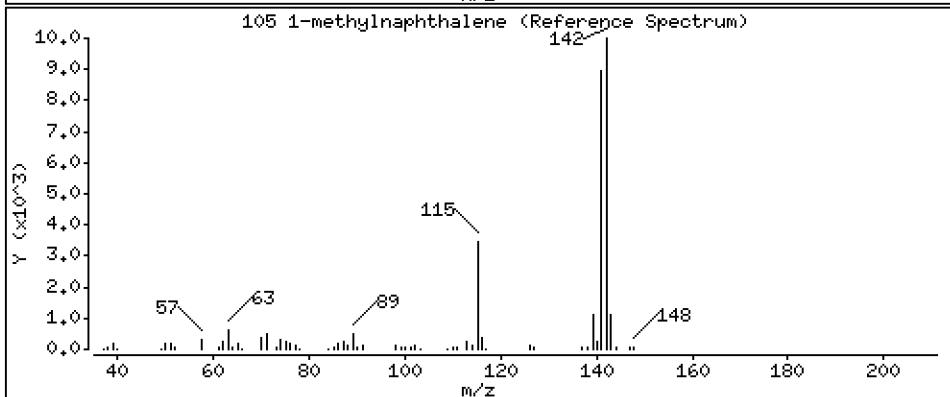
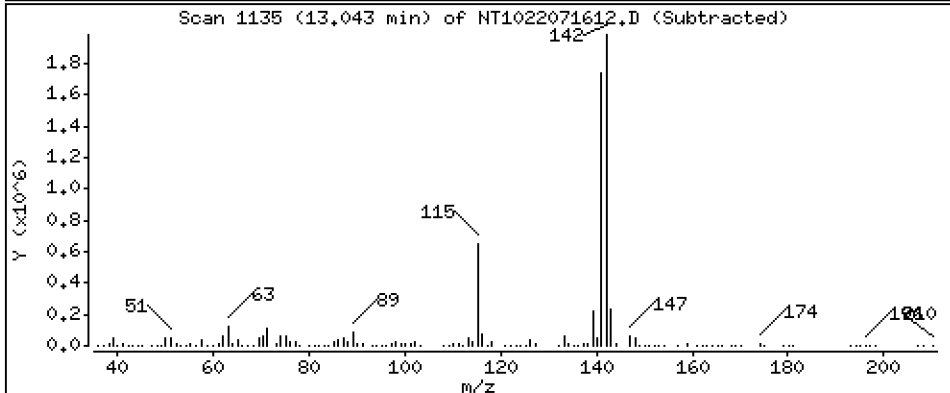
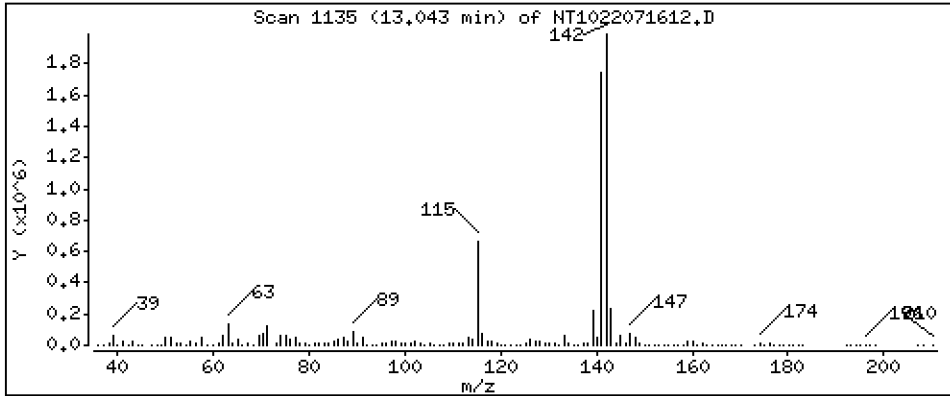
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 1455 ug/mL



Date : 16-JUL-2022 17:42

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-04RE1,100

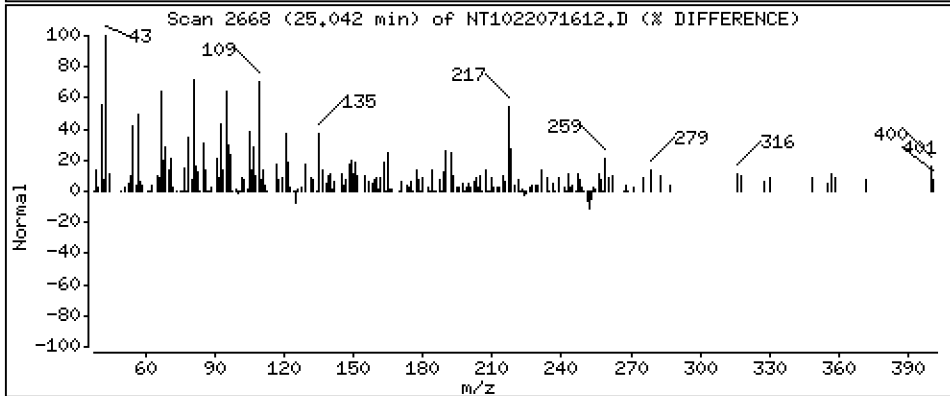
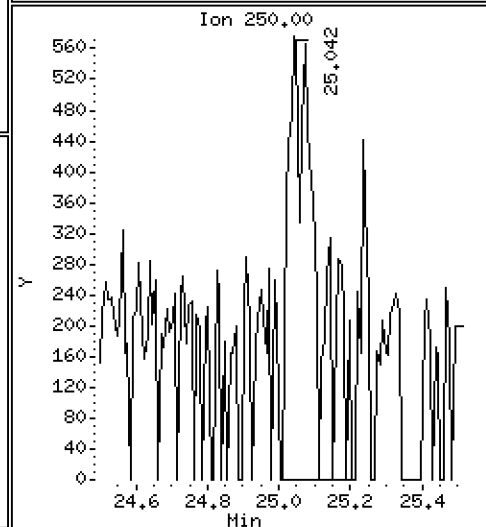
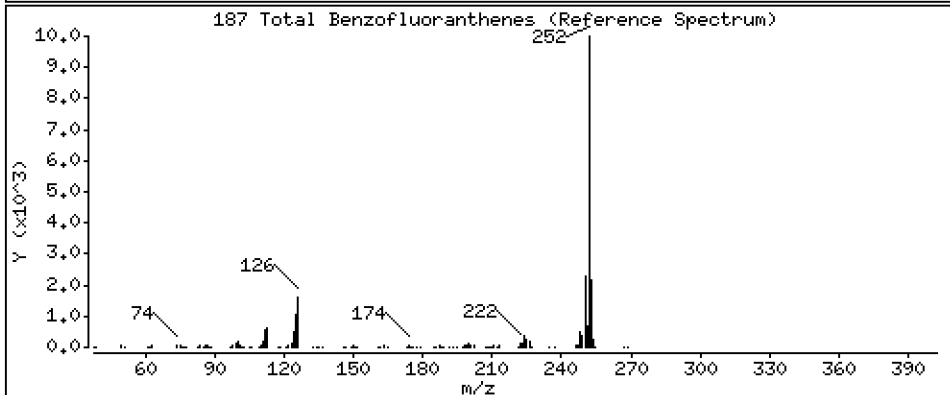
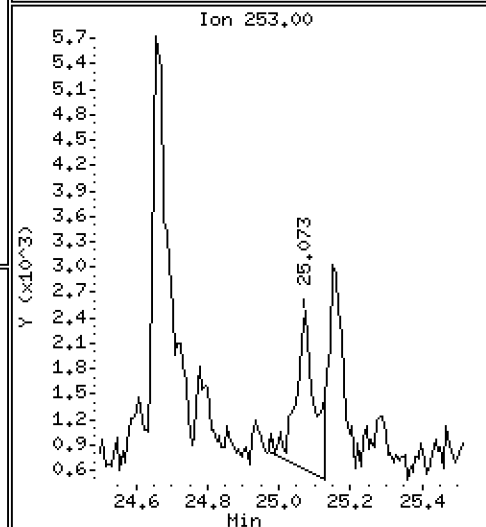
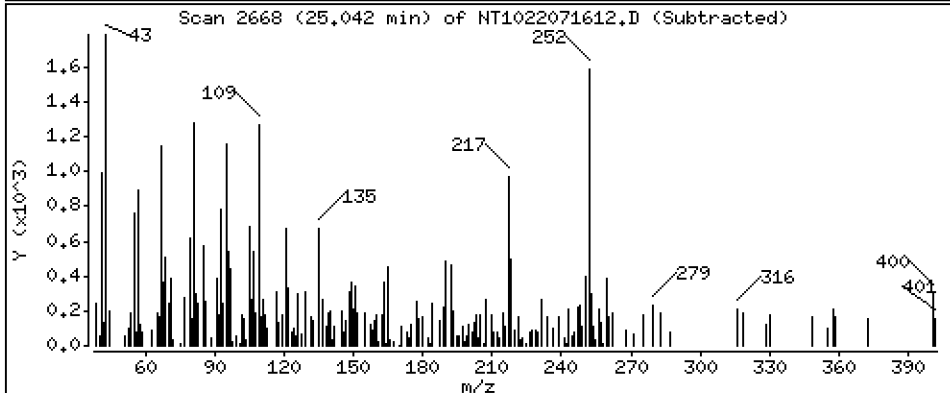
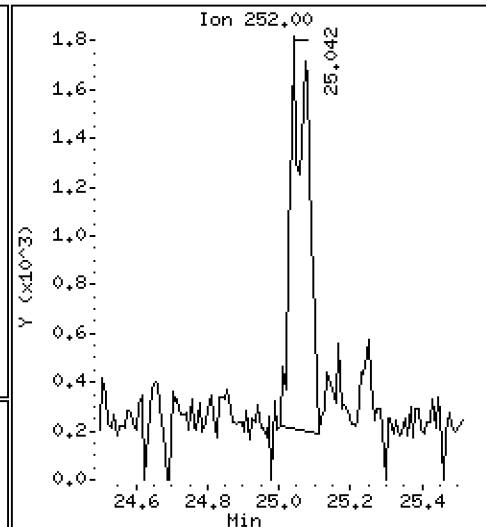
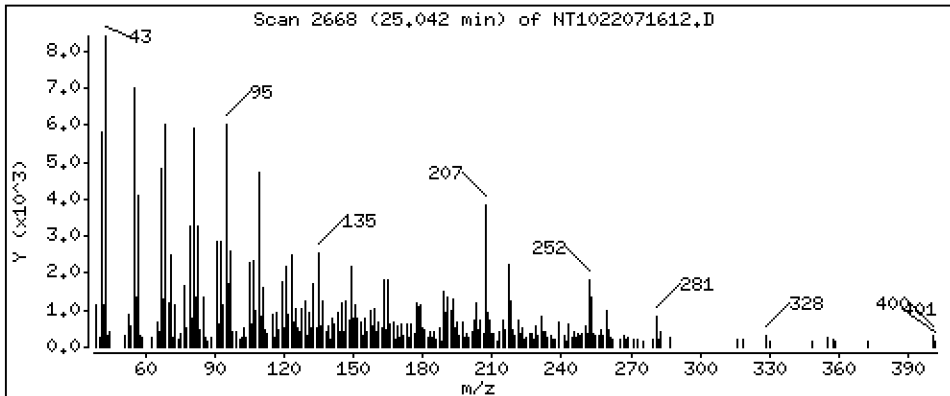
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 10,54 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220716A.b\NT1022071612.D
 Lab Smp Id: 22G0019-04RE1
 Inj Date : 16-JUL-2022 17:42
 Operator : VTS
 Smp Info : 22G0019-04RE1,100
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220716A.b\ABN.m
 Meth Date : 19-Jul-2022 07:18 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 11
 Dil Factor: 100.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.713	6.697	(0.755)	6537	0.05435	5.435
\$ 2 Phenol-d5	99		8.305	8.289	(0.934)	7939	0.04449	4.449
3 Phenol	94		Compound Not Detected.					
\$ 5 2-Chlorophenol-d4	132		8.544	8.536	(0.961)	7654	0.06246	6.246
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		8.892	8.892	(1.000)	329355	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.257	9.249	(1.041)	4443	0.05884	5.884 (M)
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		9.986	9.978	(0.878)	8022	0.08685	8.685
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.380	11.372	(1.000)	868098	4.00000	
28 Naphthalene	128		11.419	11.411	(1.003)	255440	1.14973	115.0
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		12.826	12.803	(1.127)	3464416	15.6897	1569
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.608	13.592	(0.908)	10168	0.14570	14.57
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152							
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		14.993	14.985	(1.000)	154215	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.071	15.047	(1.005)	170718	3.80643	380.6
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.403	15.380	(1.027)	44709	0.62726	62.73
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		16.114	16.091	(1.075)	158273	1.85836	185.8
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330							
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.053	18.029	(1.000)	280803	4.00000	
60 Phenanthrene	178		18.107	18.083	(1.003)	528600	7.16529	716.5
61 Anthracene	178		18.200	18.176	(1.008)	41861	0.53247	53.25
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.521	20.497	(0.885)	44877	0.39098	39.10
65 Pyrene	202		20.946	20.923	(0.904)	59281	0.58942	58.94
\$ 66 Terphenyl-d14	244		21.248	21.225	(0.917)	3525	0.06203	6.203
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.145	23.114	(0.999)	5541	0.08030	8.030
* 69 Chrysene-d12	240		23.176	23.145	(1.000)	162835	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.223	23.191	(1.002)	6715	0.14706	14.71
72 bis(2-Ethylhexyl)phthalate	149							
* 134 Di-n-octylphthalate-d4	153		24.252	24.221	(1.000)	327492	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.042	25.003	(0.971)	2993	0.05331	5.331 (M)
75 Benzo(k)fluoranthene	252		25.073	25.049	(0.972)	3270	0.06057	6.057
76 Benzo(a)pyrene	252		25.692	25.646	(0.996)	4110	0.08945	8.945
* 77 Perylene-d12	264		25.801	25.754	(1.000)	123967	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.443	28.381	(1.102)	2981	0.06076	6.076 (M)
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276		29.204	29.150	(1.132)	4522	0.11530	11.53 (M)
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.043	13.027	(1.146)	3155873	14.5475	1455
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.042	25.003	(0.971)	5518	0.10541	10.54 (M)	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 16-JUL-2022
 Lab File ID: NT1022071612.D Calibration Time: 13:33
 Lab Smp Id: 22G0019-04RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220716A.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	202557	101279	405114	329355	62.60
27 Naphthalene-d8	703953	351977	1407906	868098	23.32
42 Acenaphthene-d10	510125	255063	1020250	154215	-69.77 <-
59 Phenanthrene-d10	646092	323046	1292184	280803	-56.54 <-
69 Chrysene-d12	349304	174652	698608	162835	-53.38 <-
134 Di-n-octylphthala	599143	299572	1198286	327492	-45.34
77 Perylene-d12	184274	92137	368548	123967	-32.73

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.89	8.39	9.39	8.89	0.00
27 Naphthalene-d8	11.37	10.87	11.87	11.38	0.07
42 Acenaphthene-d10	14.99	14.49	15.49	14.99	0.05
59 Phenanthrene-d10	18.03	17.53	18.53	18.05	0.13
69 Chrysene-d12	23.15	22.65	23.65	23.18	0.13
134 Di-n-octylphthala	24.22	23.72	24.72	24.25	0.13
77 Perylene-d12	25.75	25.25	26.25	25.80	0.18

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

REVIEW SUMMARY FOR FILE - NT1022071612.D

Lab ID: 22G0019-04RE1
nt10.i, ABN.m, 16-JUL-2022 17:42

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

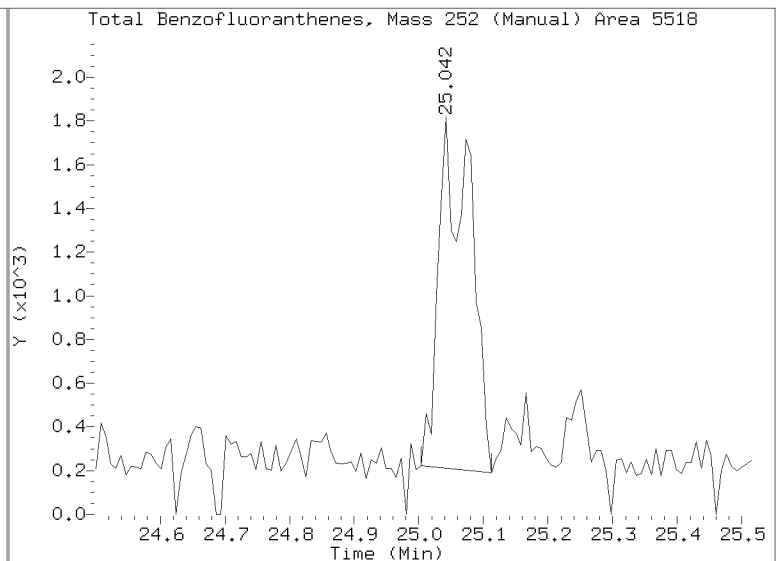
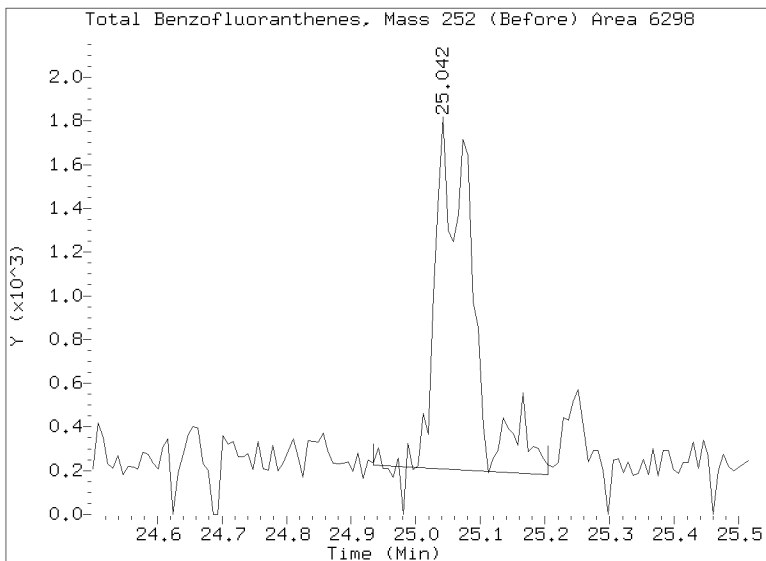
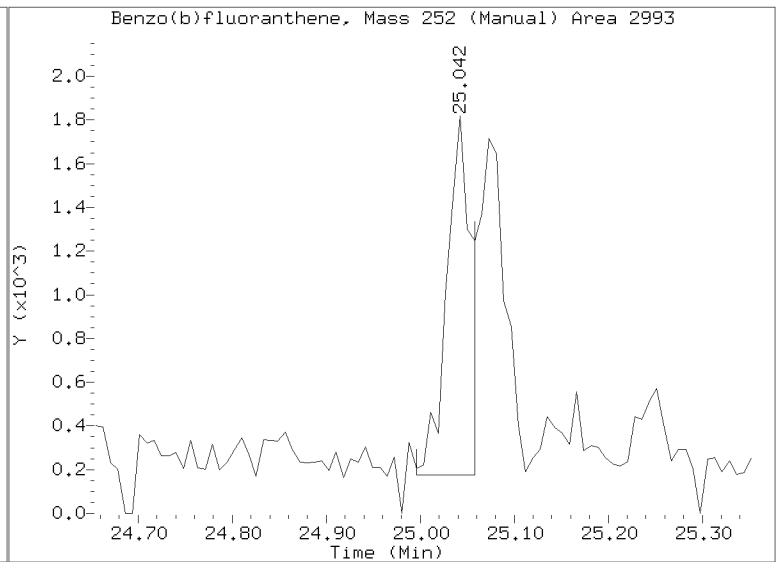
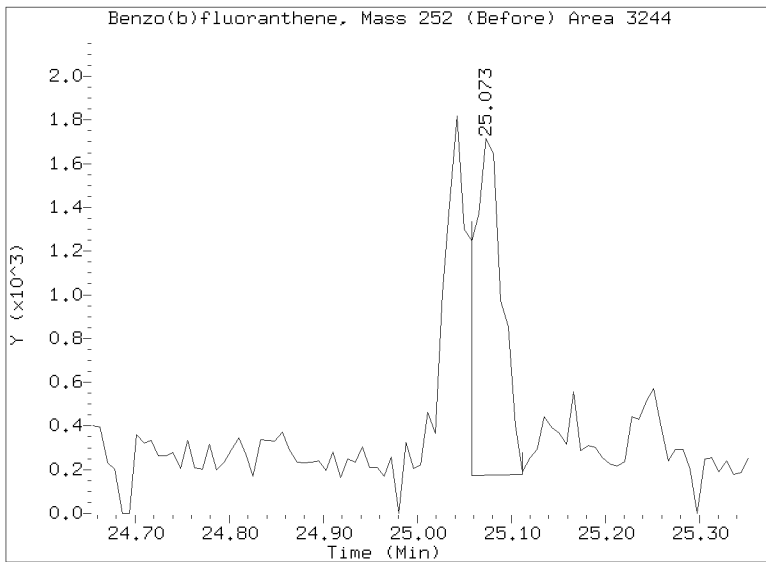
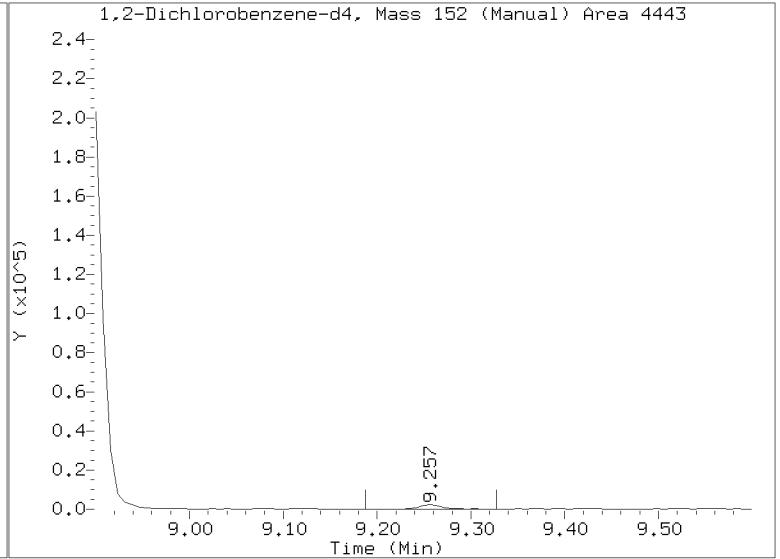
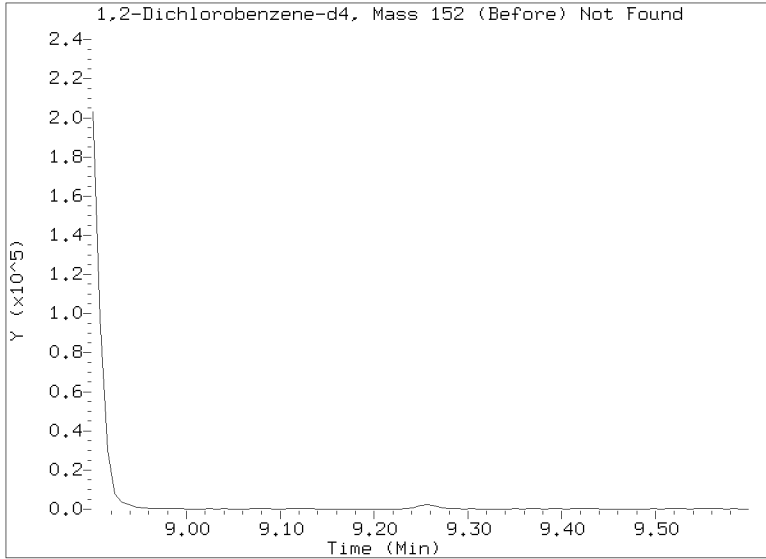
RRT check based on Ccal File: NT1022071608.D

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

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

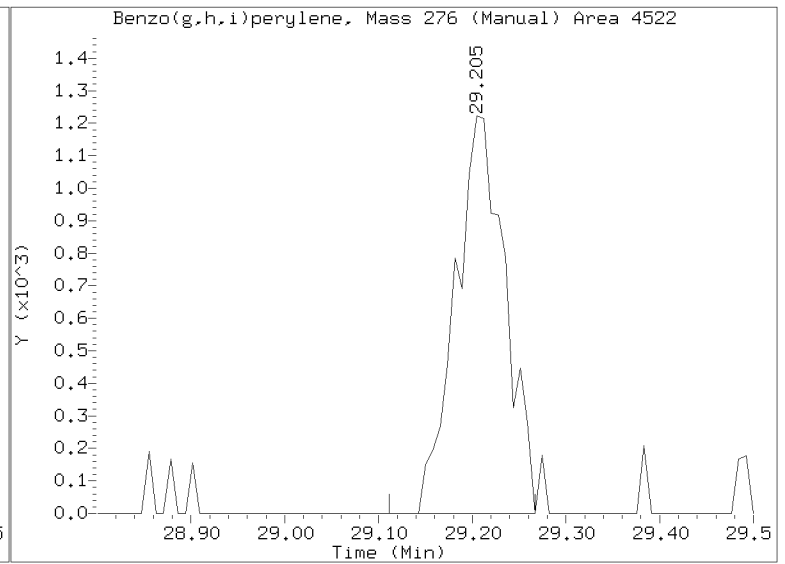
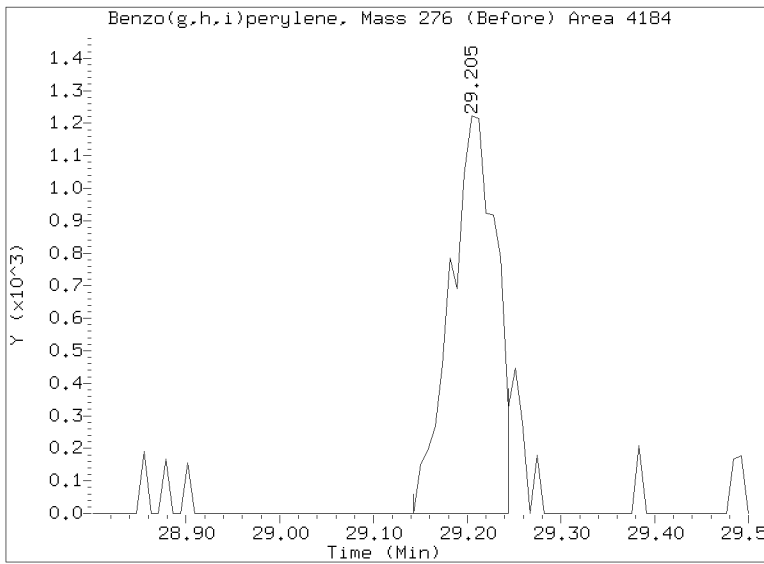
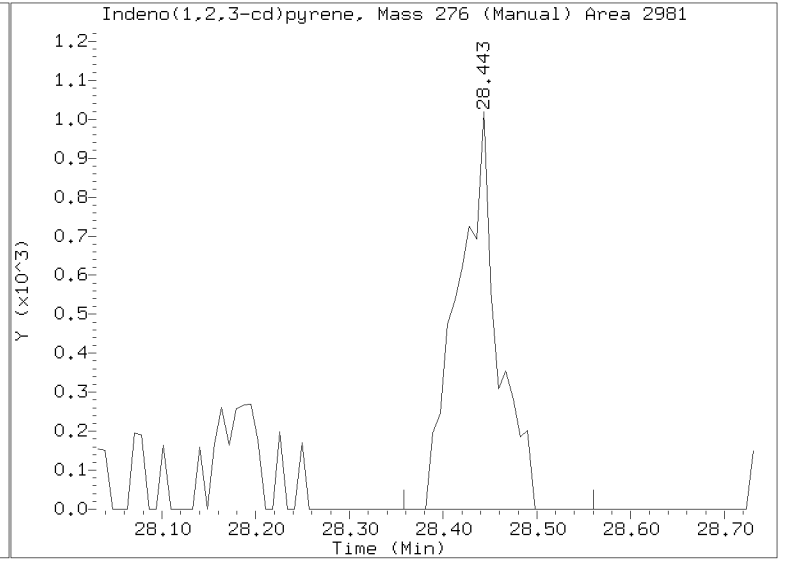
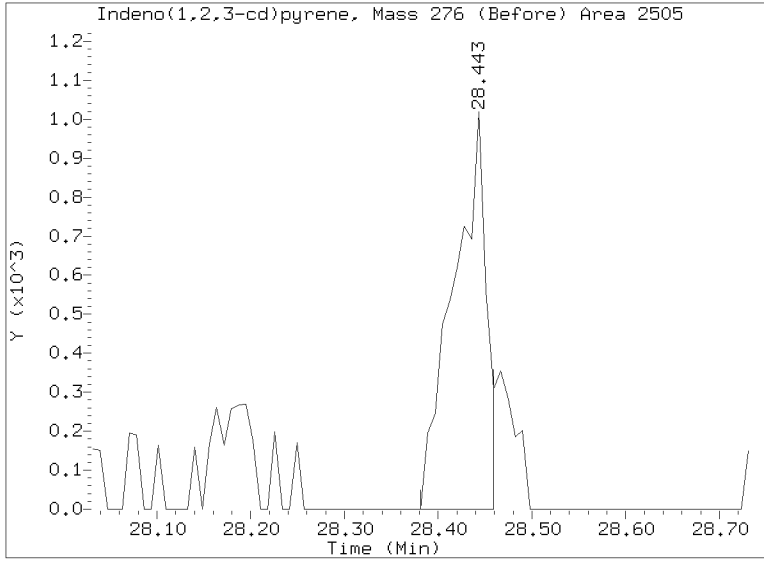
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220716A.b/NT1022071612.D
Injection Date: 16-JUL-2022 17:42
Lab ID:22G0019-04RE1 Client ID:
Report Date: 07/19/2022 10:08



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220716A.b/NT1022071612.D
Injection Date: 16-JUL-2022 17:42
Lab ID:22G0019-04RE1 Client ID:
Report Date: 07/19/2022 10:08





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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-05 A

SDG: 22G0019

Sampled: 06/28/22 10:45

Prepared: 07/07/22 10:01

File ID: NT1022071512.D

% Solids: 55.25

Preparation: EPA 3546 (Microwave)

Analyzed: 07/15/22 19:21

Batch: BKG0069

Sequence: SKG0154

Initial/Final: 18.18 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	10	3780	D	42.2	199
91-57-6	2-Methylnaphthalene	10	2180	D	44.9	199
83-32-9	Acenaphthene	10	13000	D	52.0	199
87-86-5	Pentachlorophenol	10	311	U	311	996
85-01-8	Phenanthrene	10	65700	D, E	86.8	199
206-44-0	Fluoranthene	10	30000	Q, D, E	60.6	199
56-55-3	Benzo(a)anthracene	10	12200	D	59.3	199
218-01-9	Chrysene	10	14600	Q, D	60.3	199
205-99-2	Benzo(b)fluoranthene	10	6120	D	69.9	199
207-08-9	Benzo(k)fluoranthene	10	7820	D	49.9	199
50-32-8	Benzo(a)pyrene	10	11100	D	42.1	199
193-39-5	Indeno(1,2,3-cd)pyrene	10	4930	D	146	199
53-70-3	Dibenzo(a,h)anthracene	10	2090	D	172	199
90-12-0	1-Methylnaphthalene	10	1540	D	52.4	199

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	746.68	599	80.2	27 - 120	
Phenol-d5	746.68	508	68.0	29 - 120	
2-Chlorophenol-d4	746.68	732	98.0	31 - 120	
1,2-Dichlorobenzene-d4	497.79	453	91.0	32 - 120	
Nitrobenzene-d5	497.79	456	91.6	30 - 120	
2-Fluorobiphenyl	497.79	567	114	35 - 120	
2,4,6-Tribromophenol	746.68	475	63.7	24 - 134	
p-Terphenyl-d14	497.79	590	119	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220715.6\NT1022071512.D

Date: 15-JUL-2022 19:21

Client ID:

Sample Info: 2200019-05.10

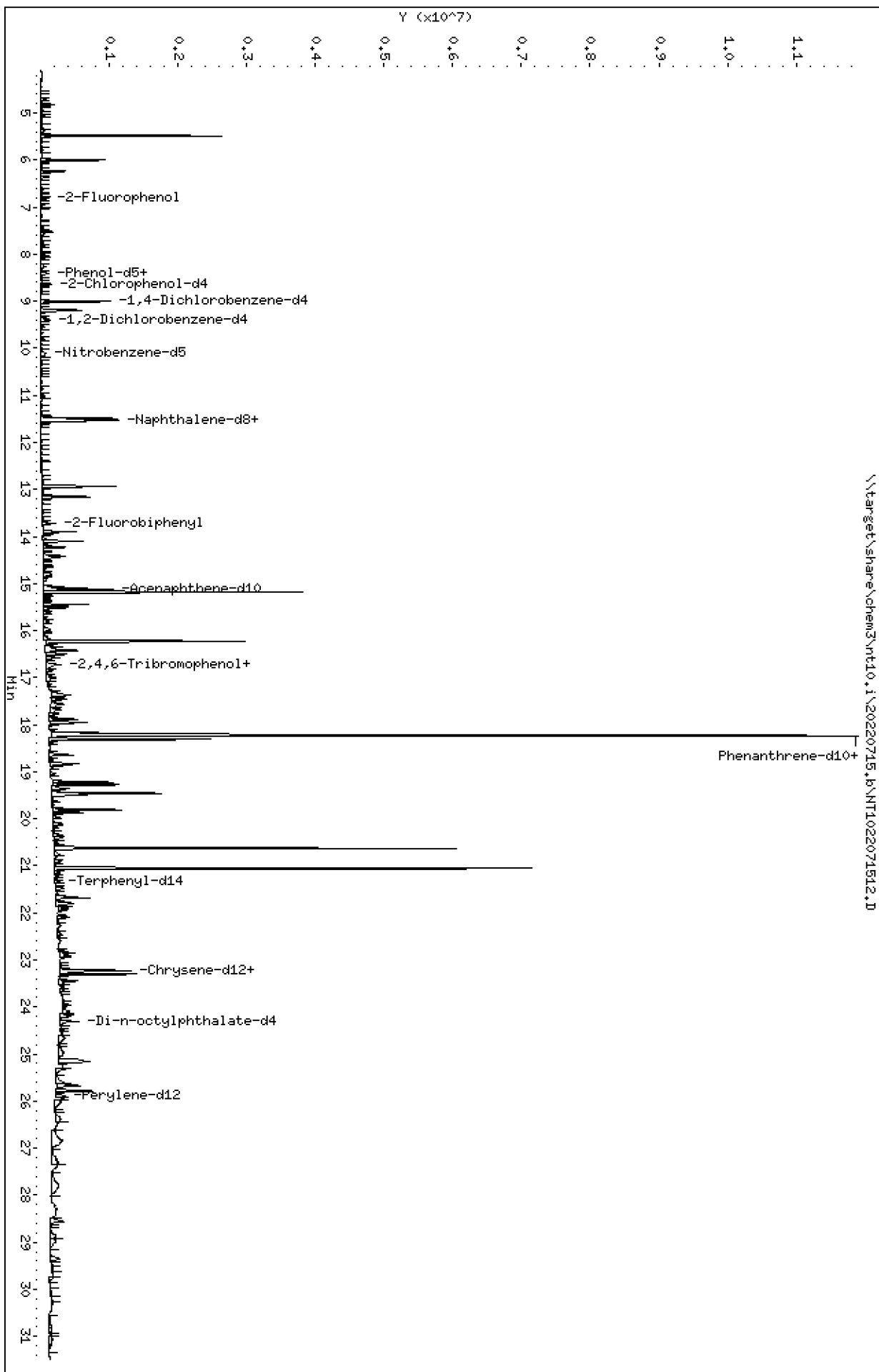
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20220715.6\NT1022071512.D



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05,10

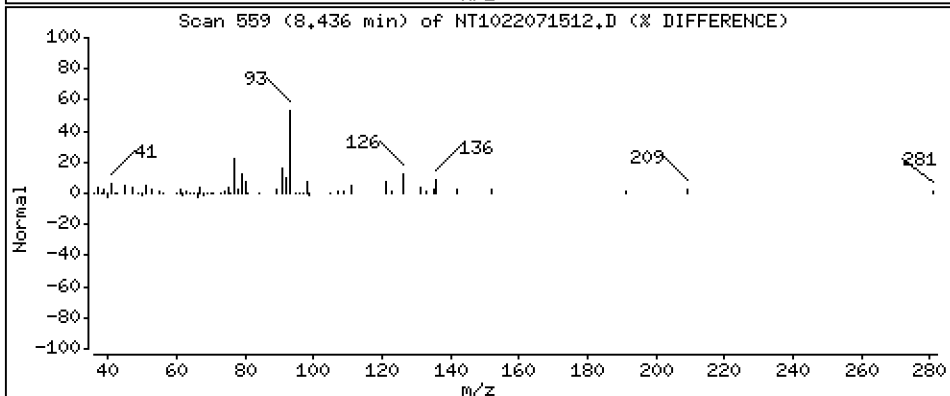
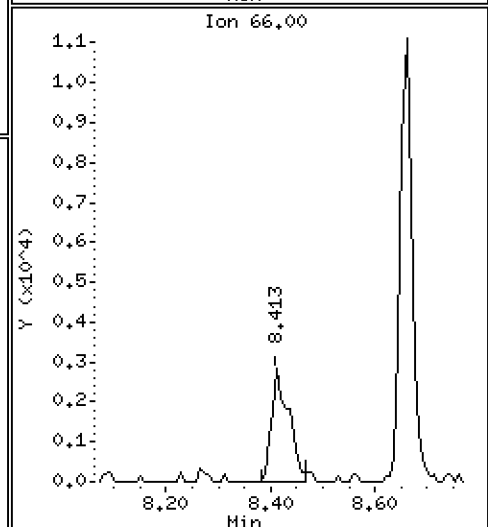
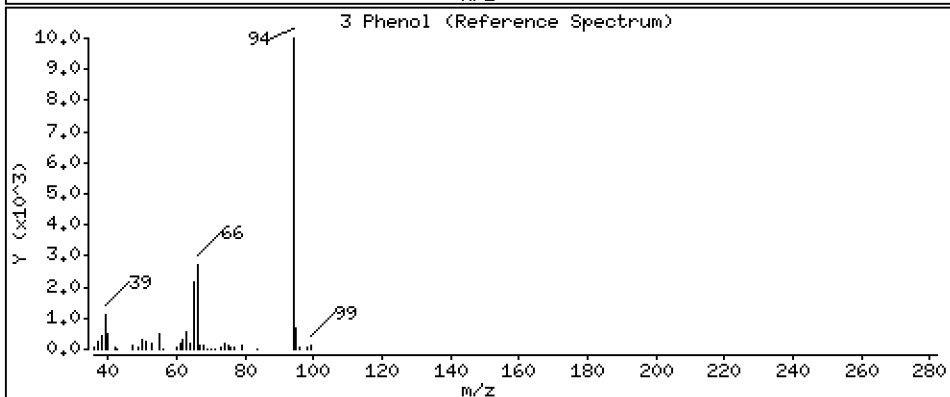
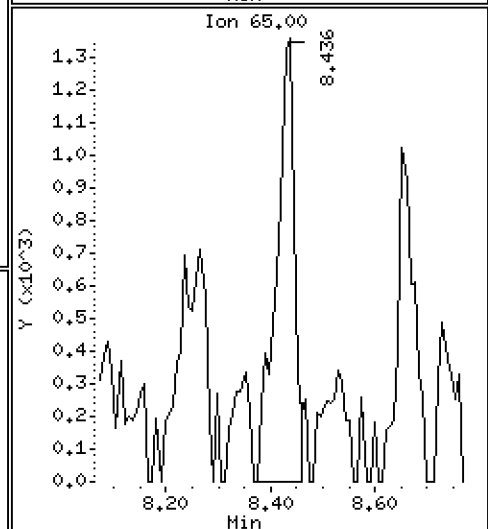
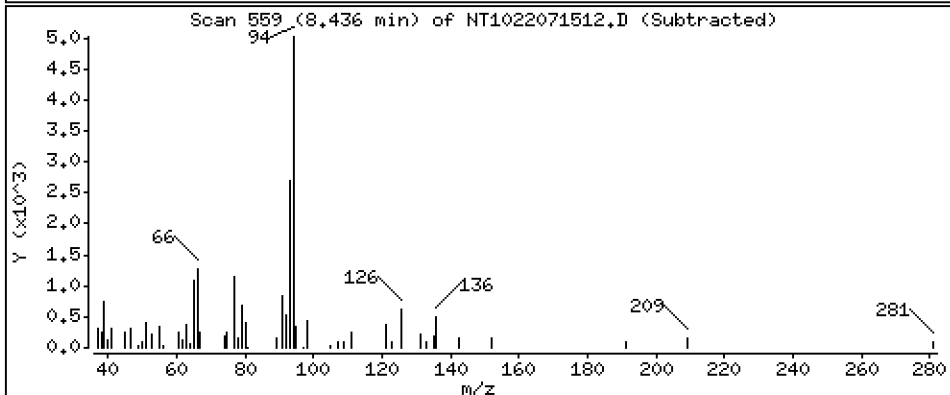
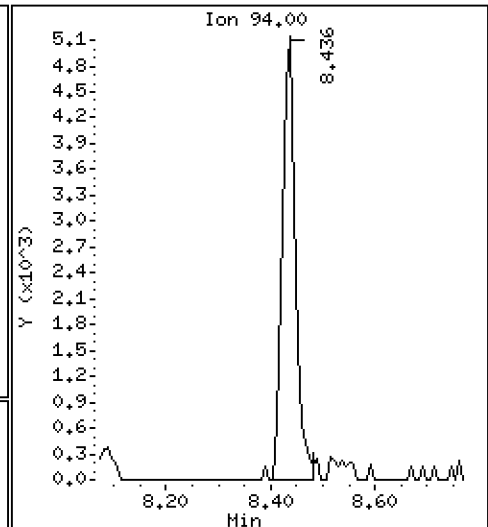
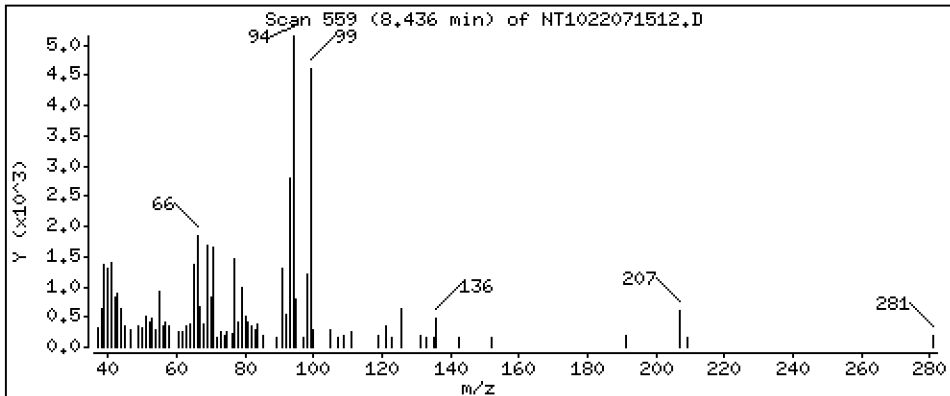
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,6424 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05,10

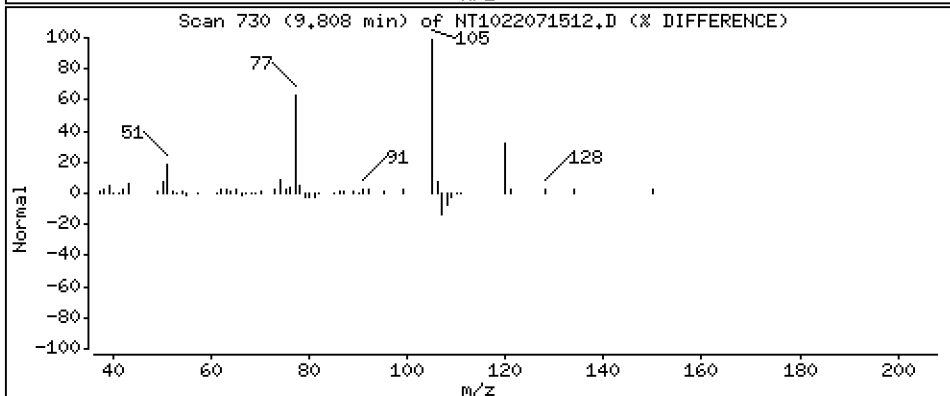
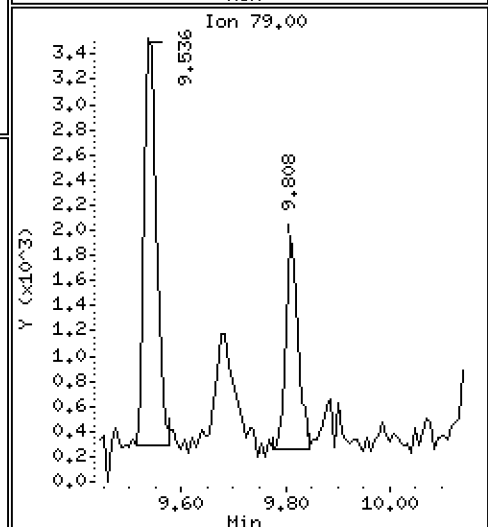
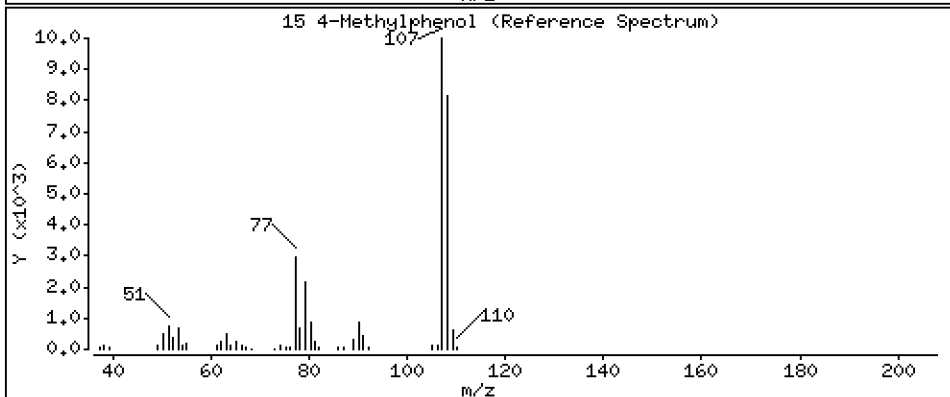
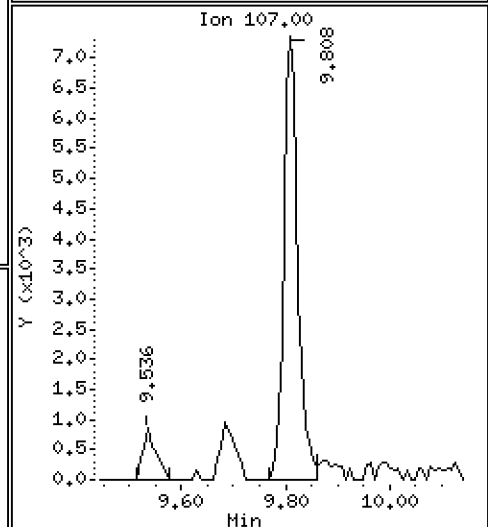
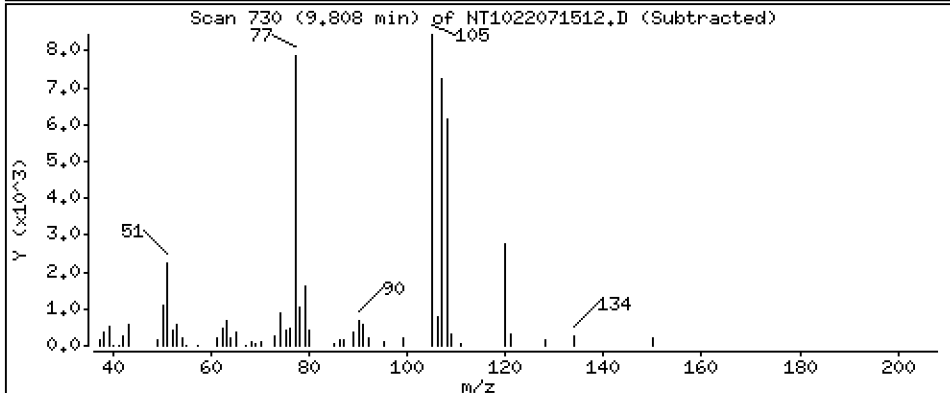
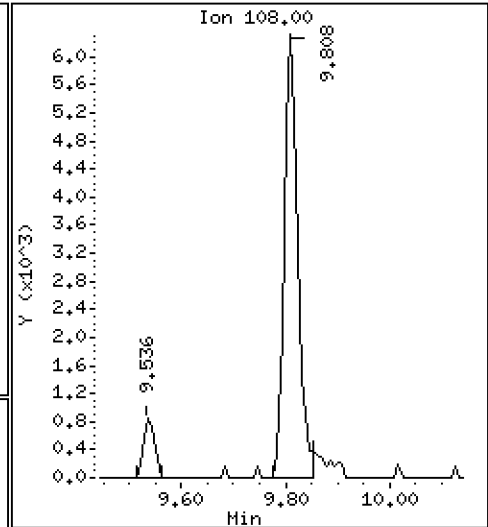
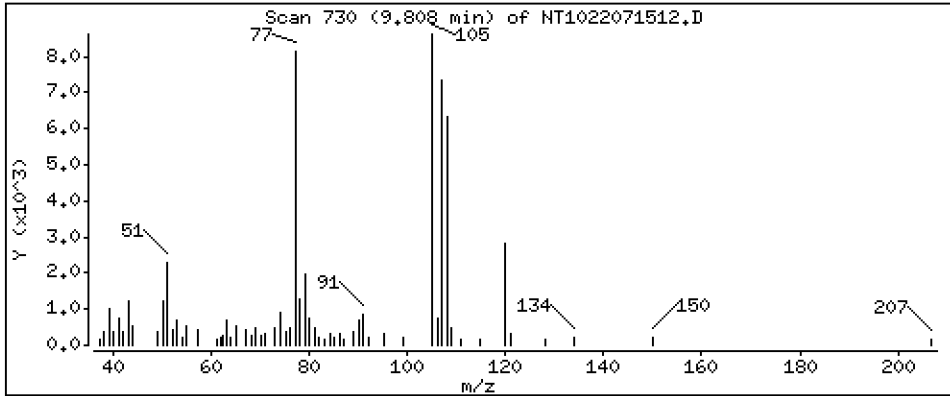
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 1,312 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

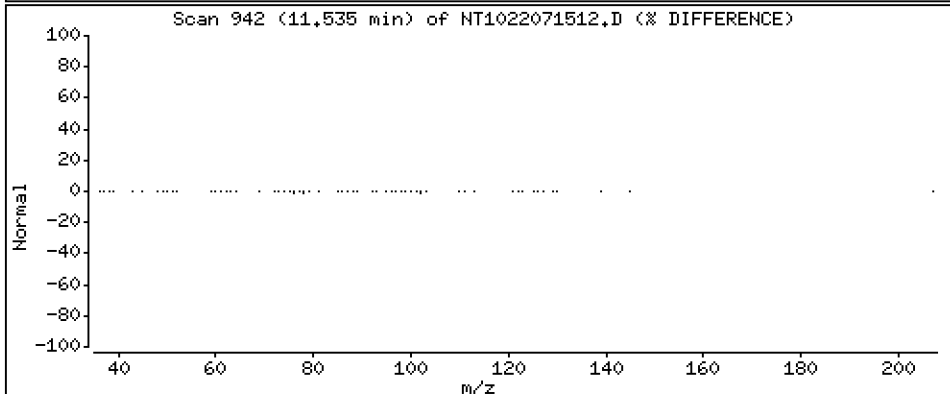
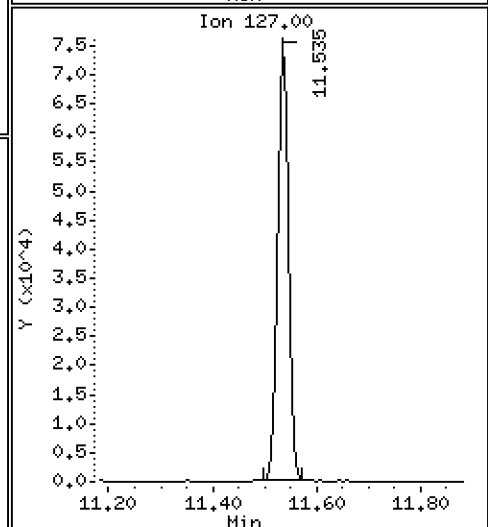
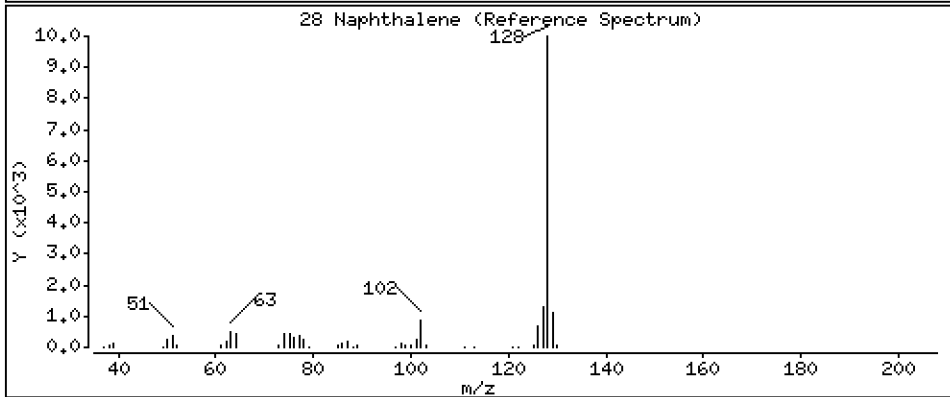
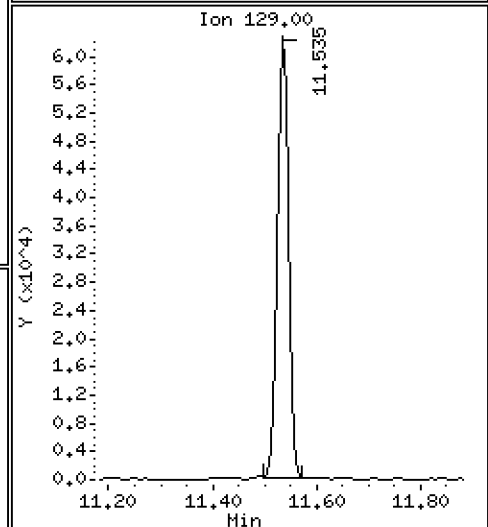
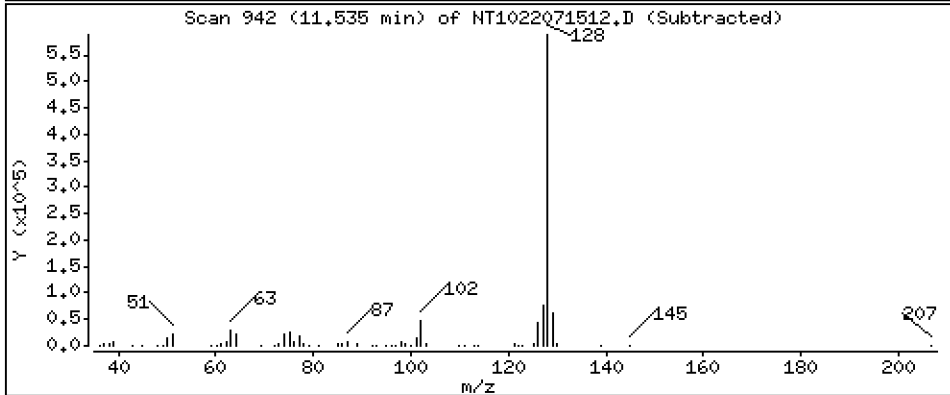
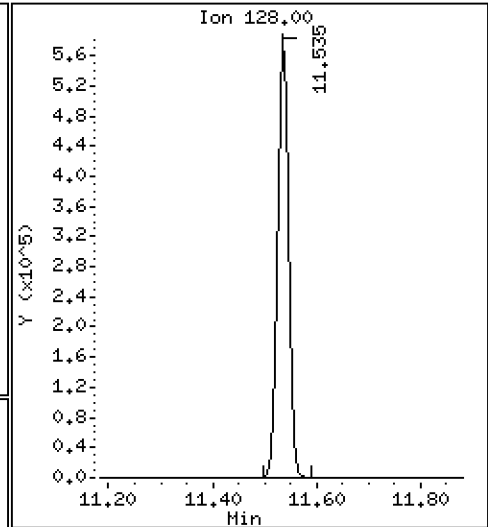
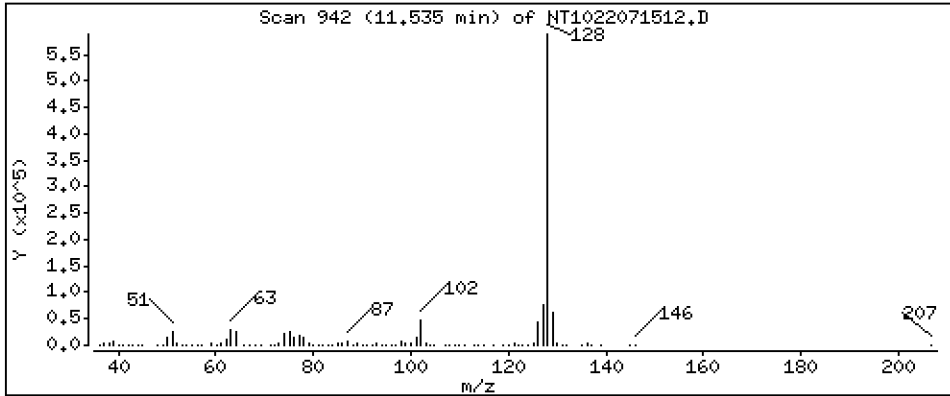
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 37,99 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05,10

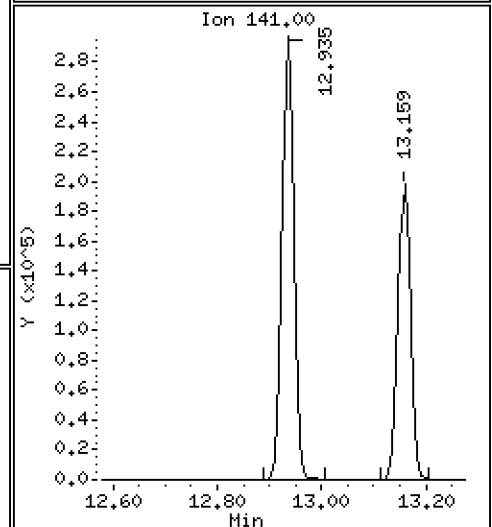
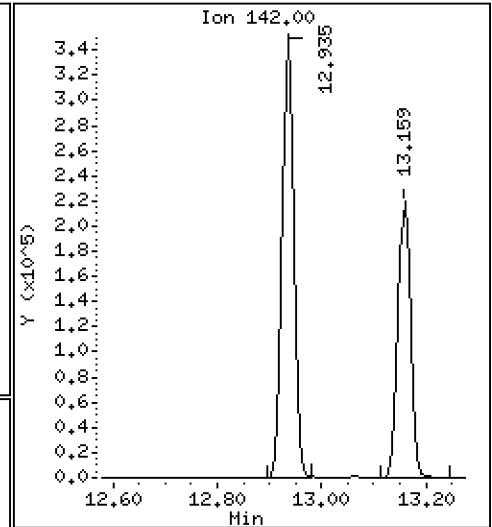
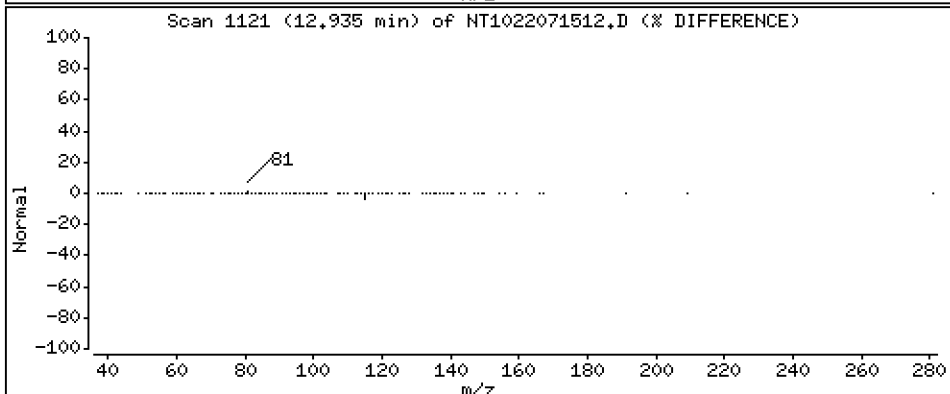
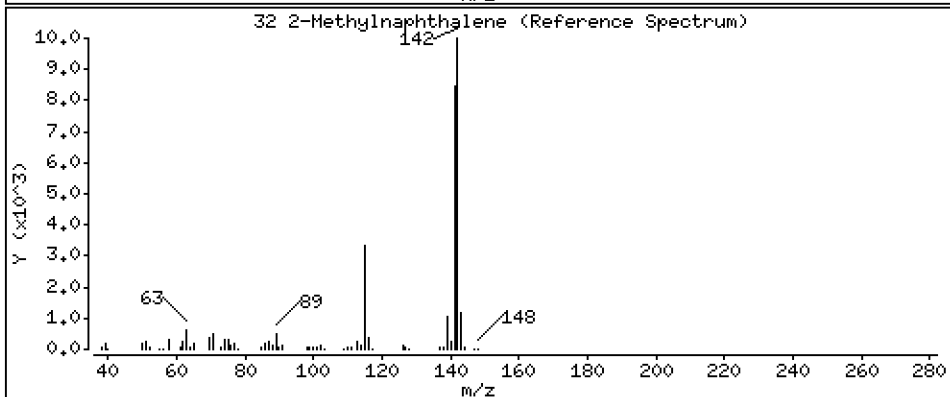
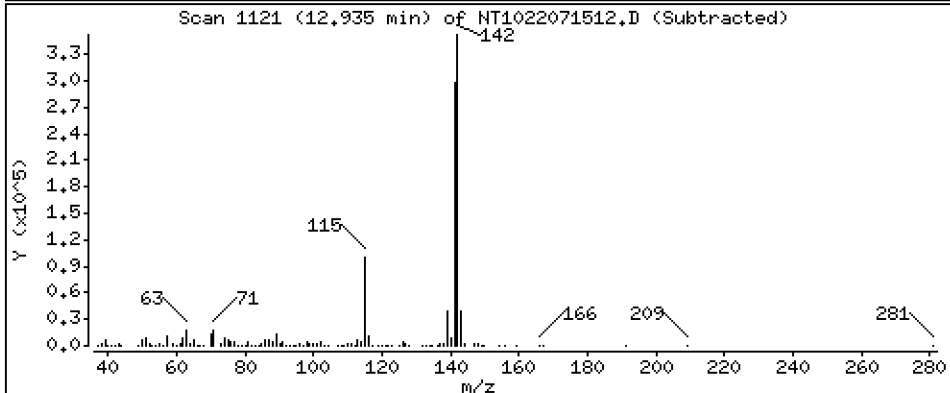
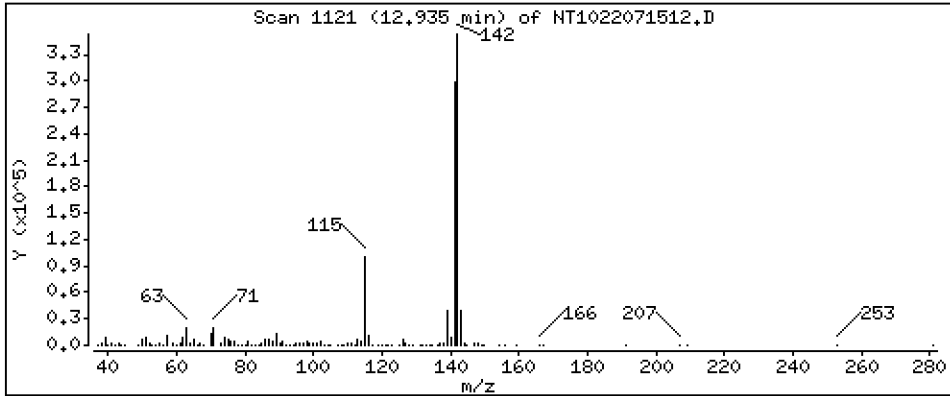
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 21,89 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

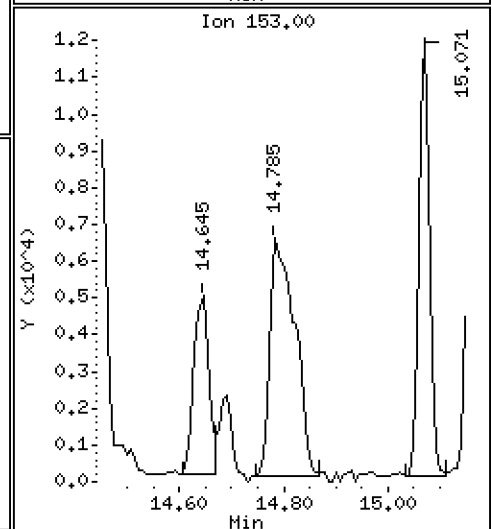
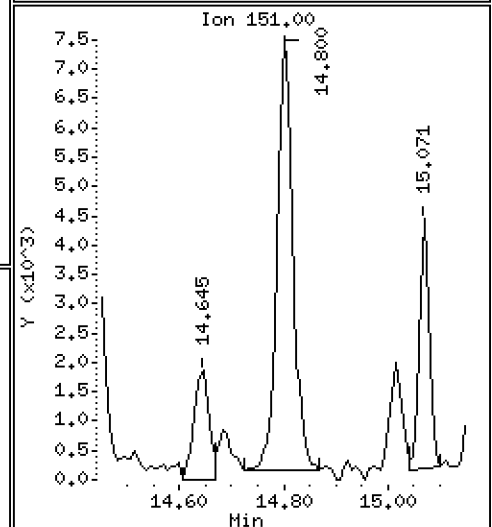
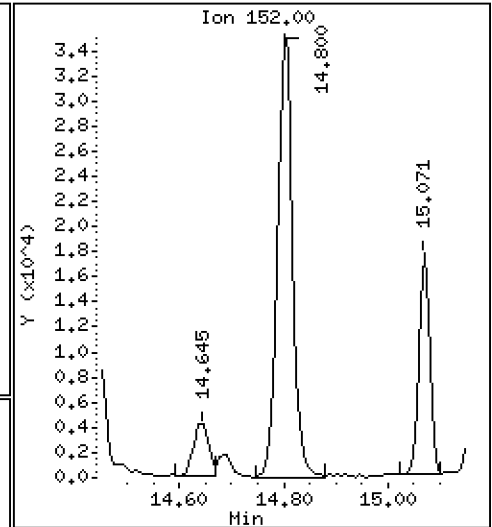
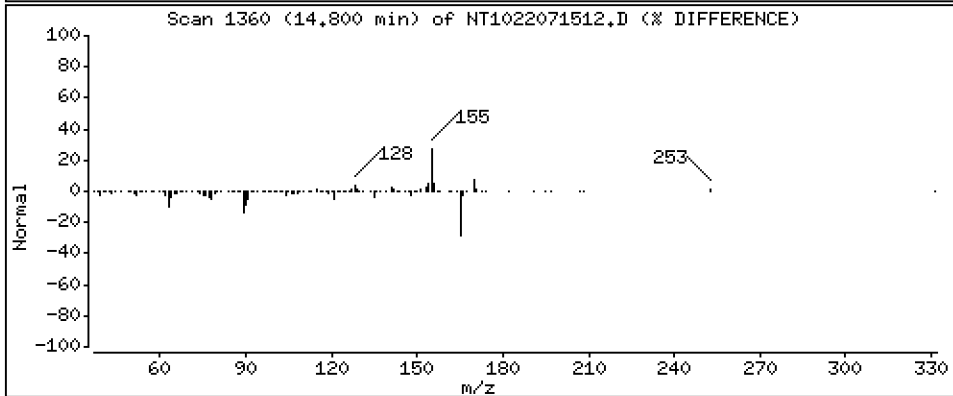
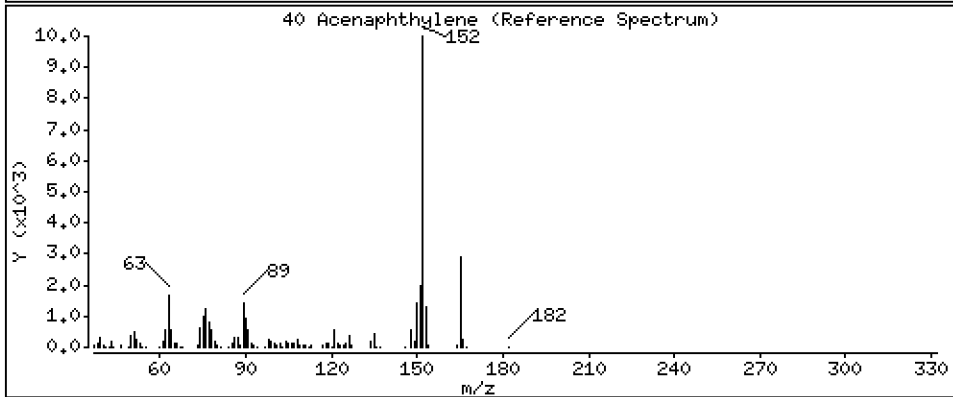
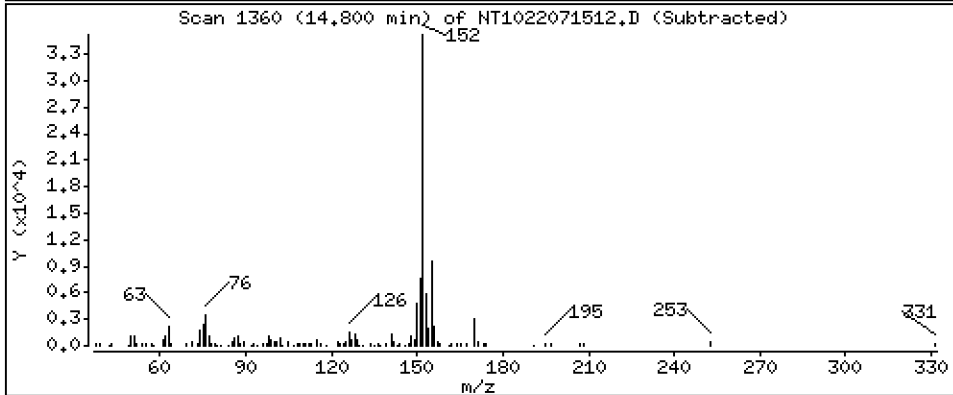
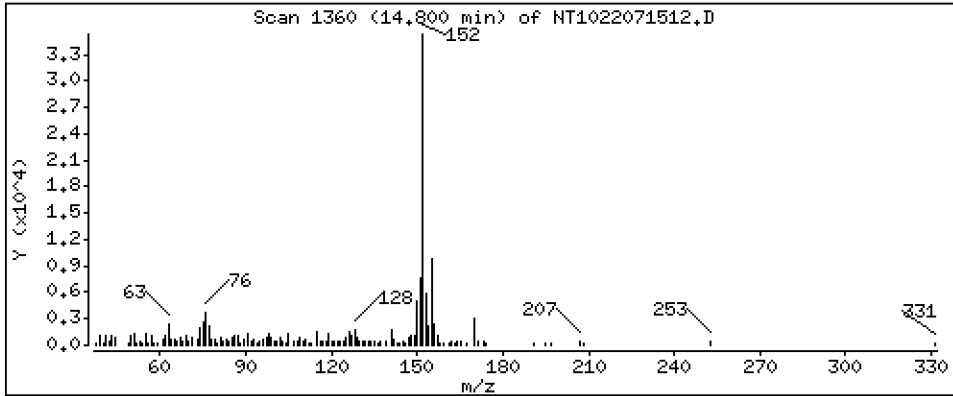
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 2,767 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

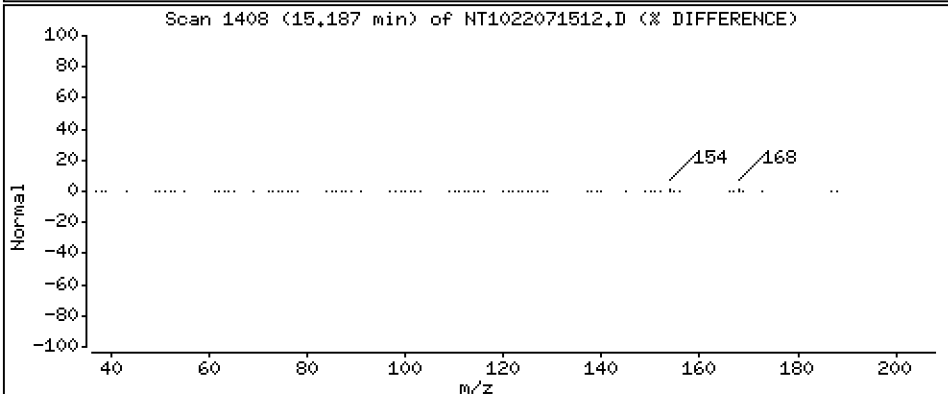
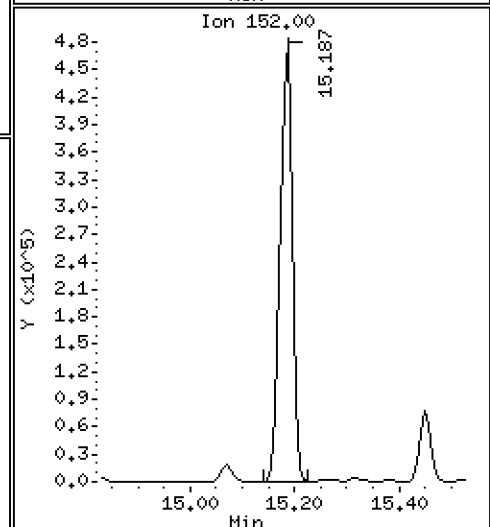
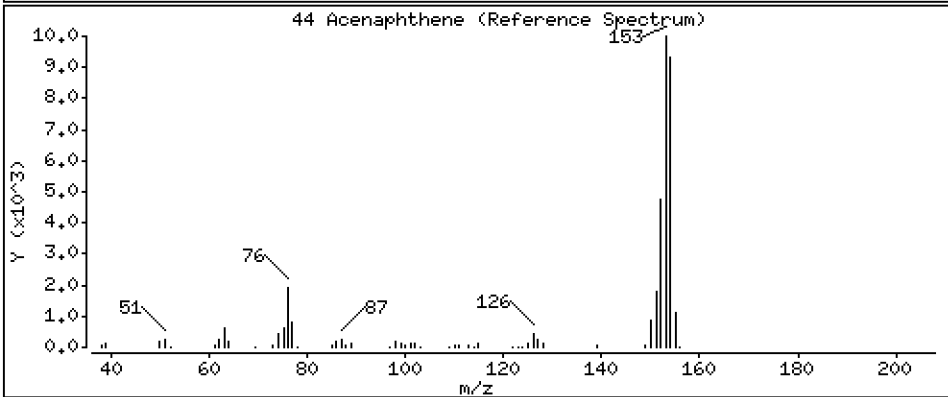
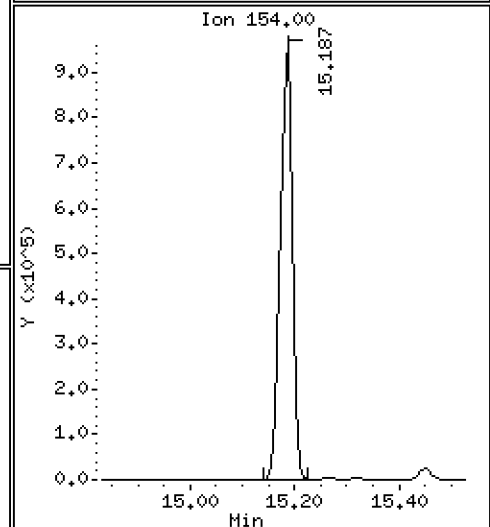
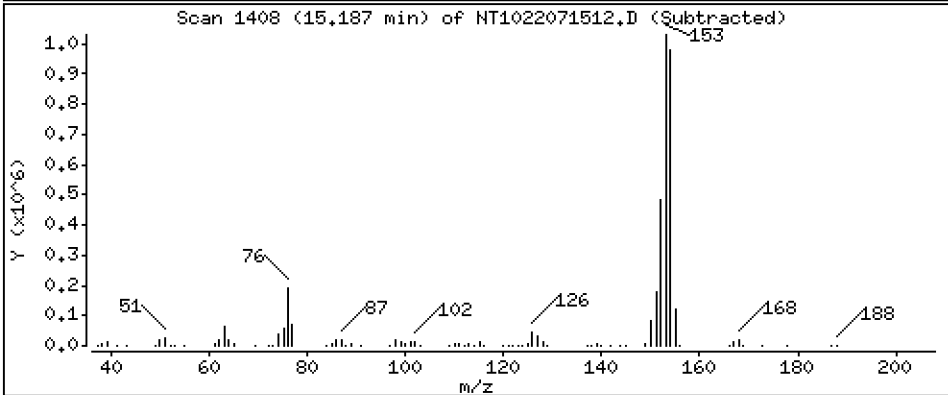
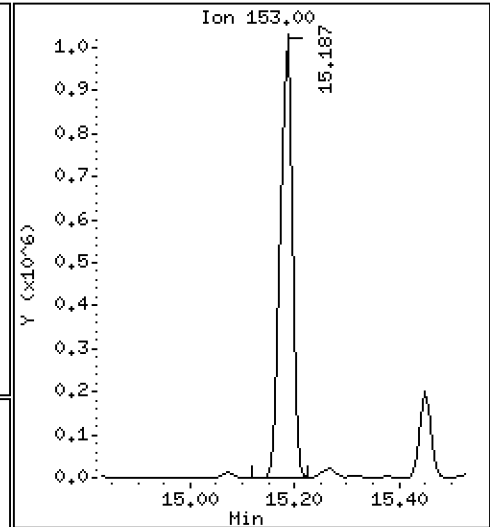
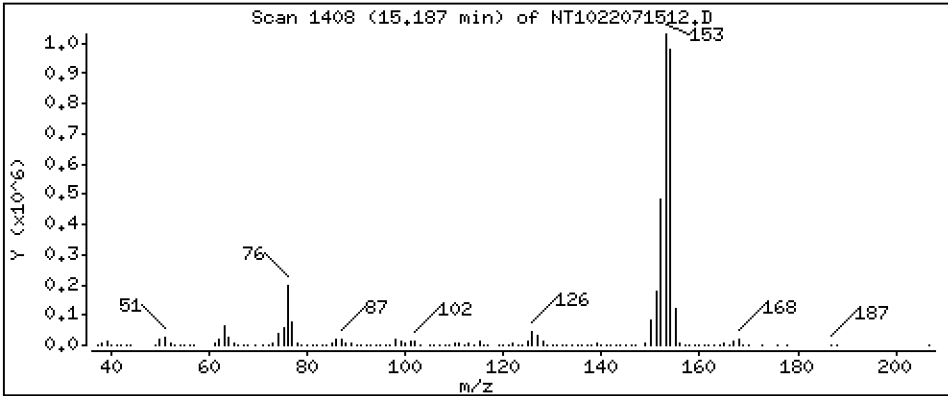
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 130,6 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

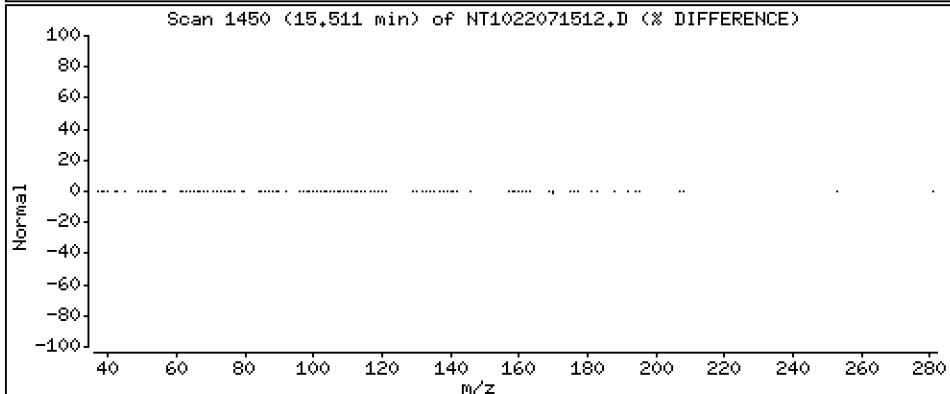
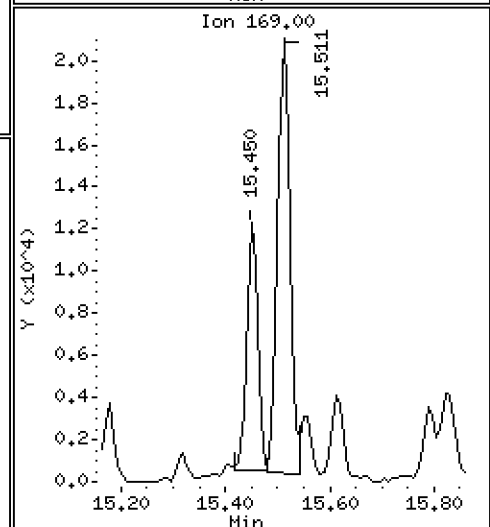
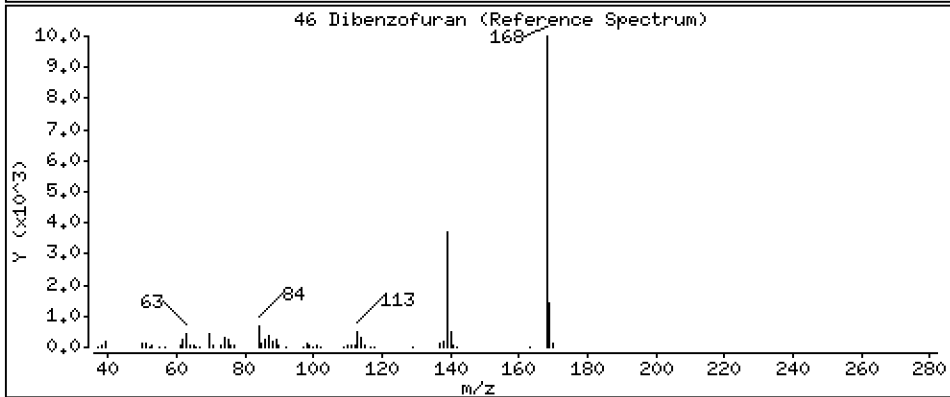
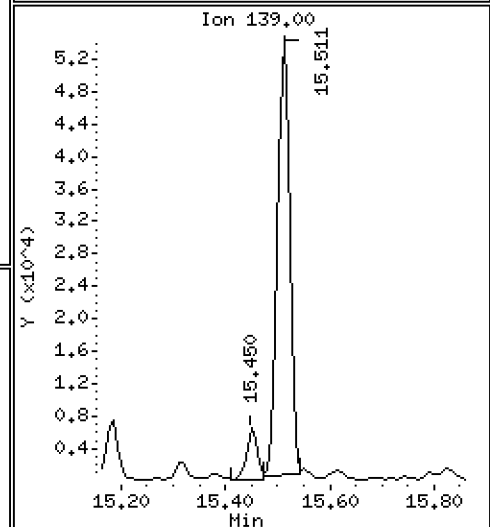
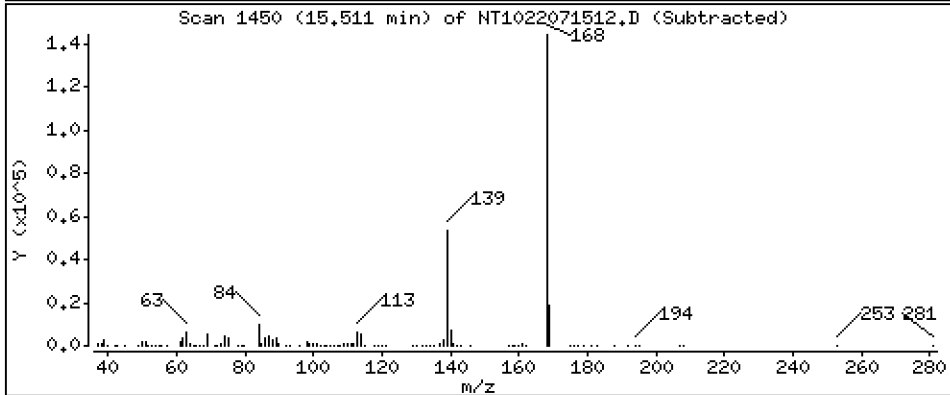
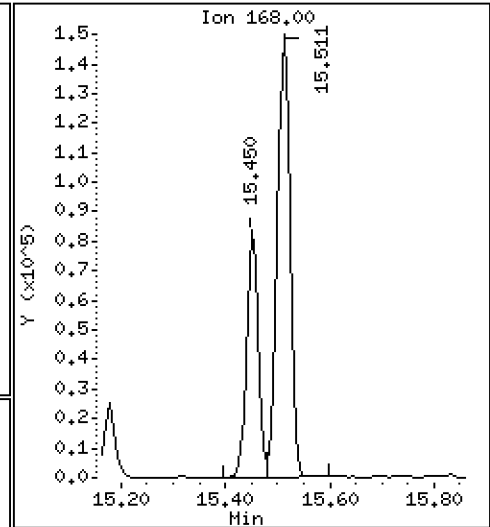
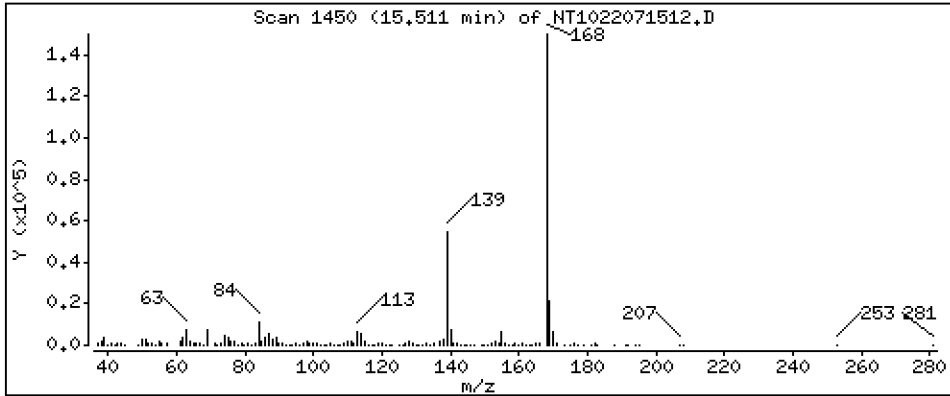
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 12,54 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

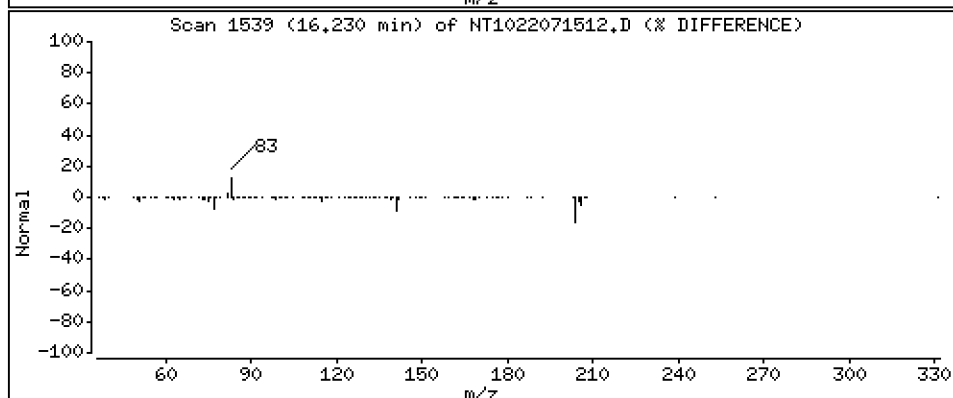
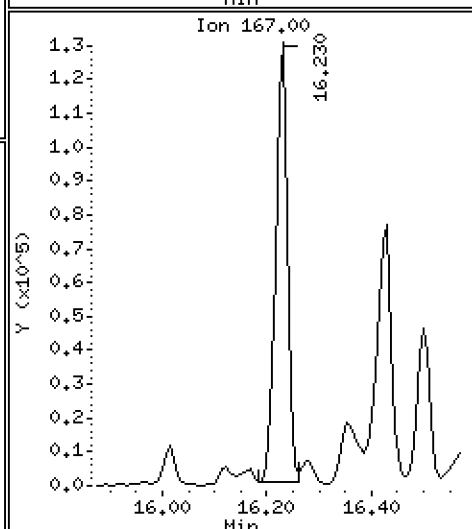
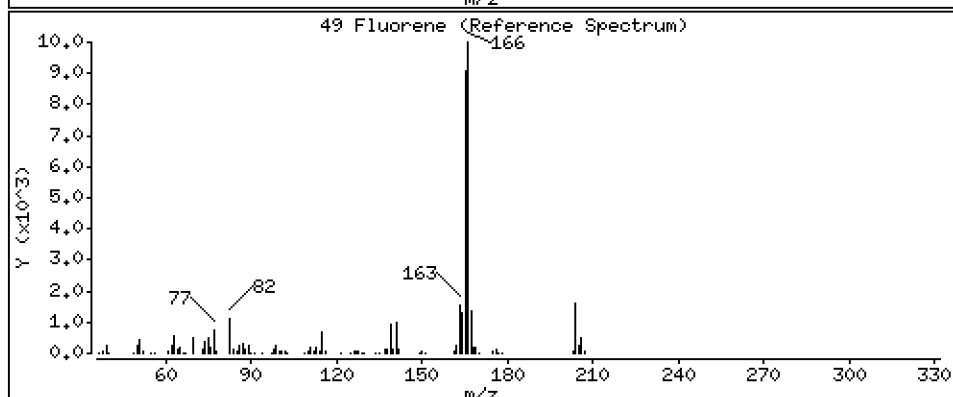
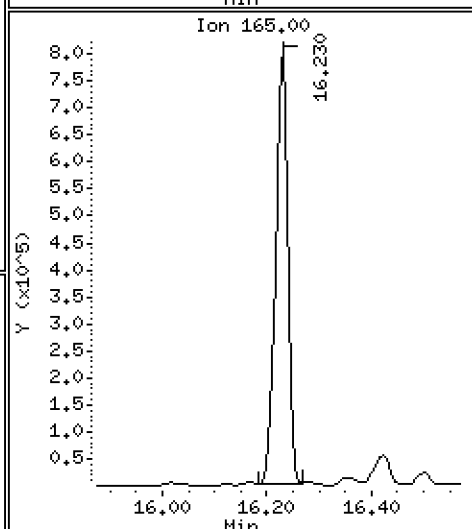
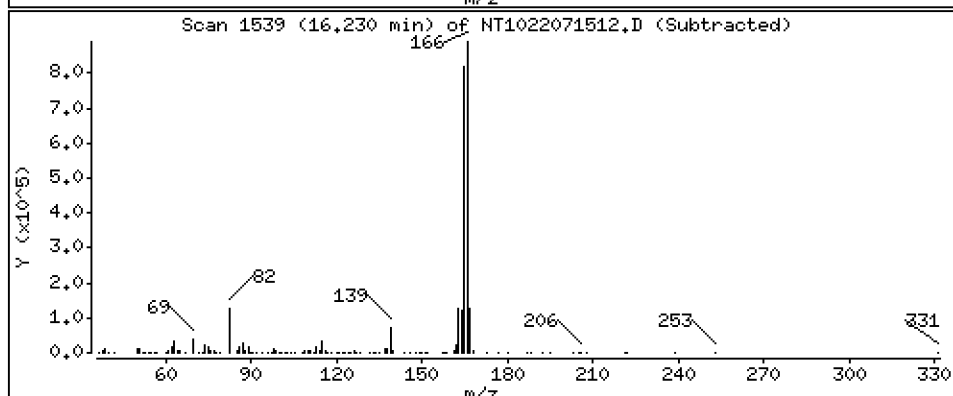
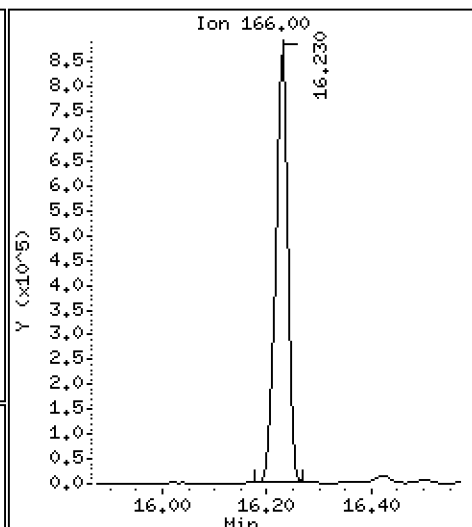
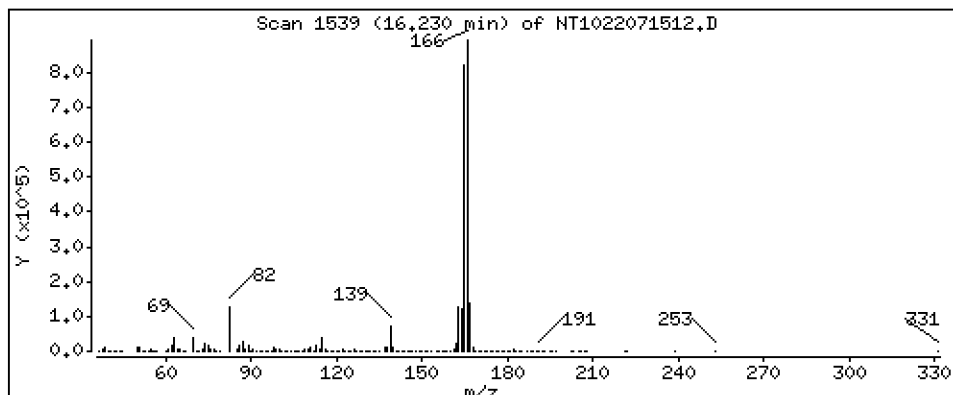
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 61,65 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

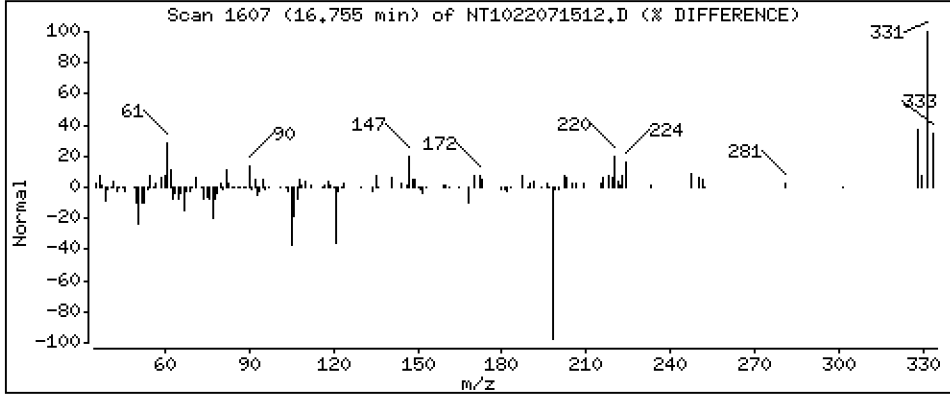
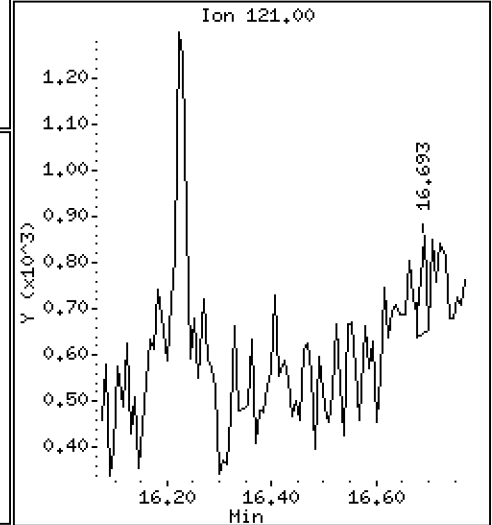
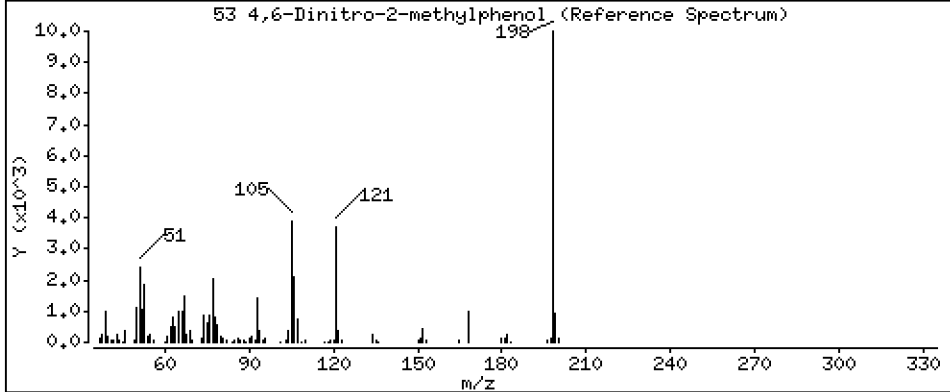
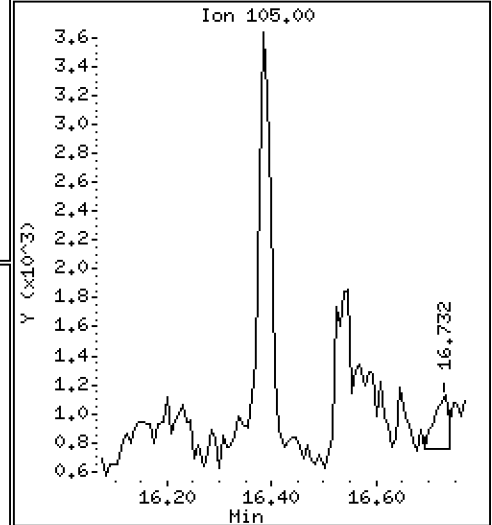
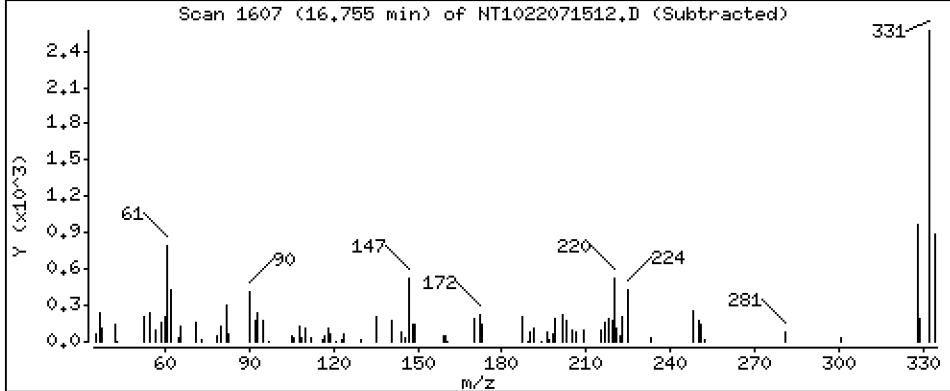
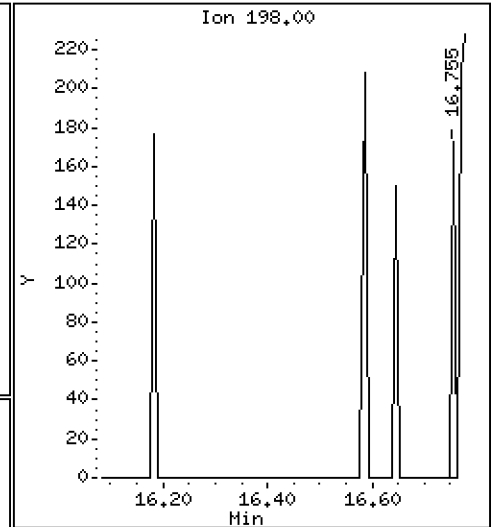
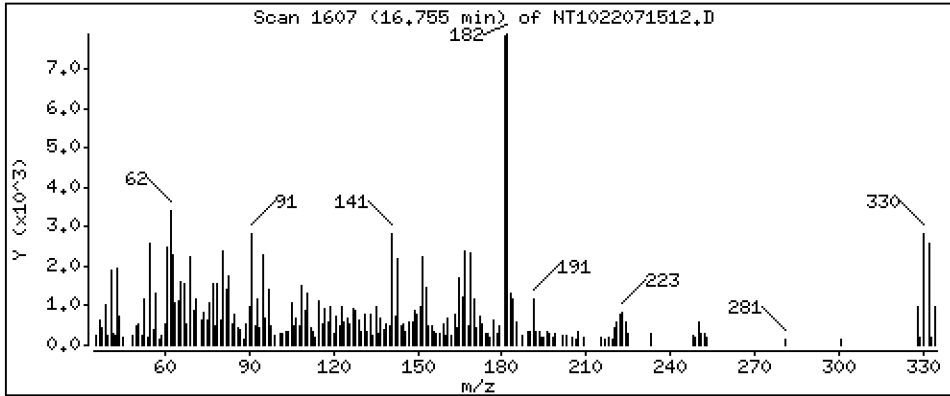
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,04123 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

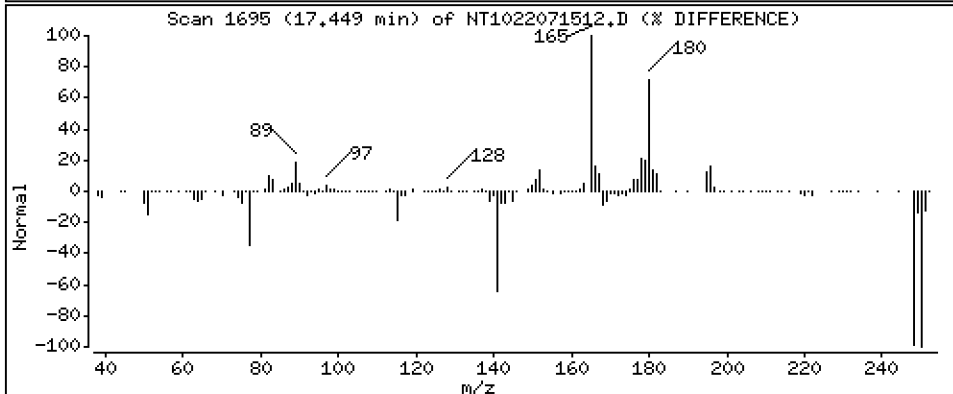
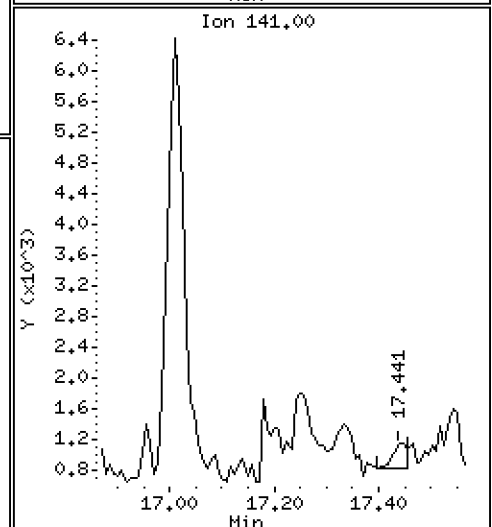
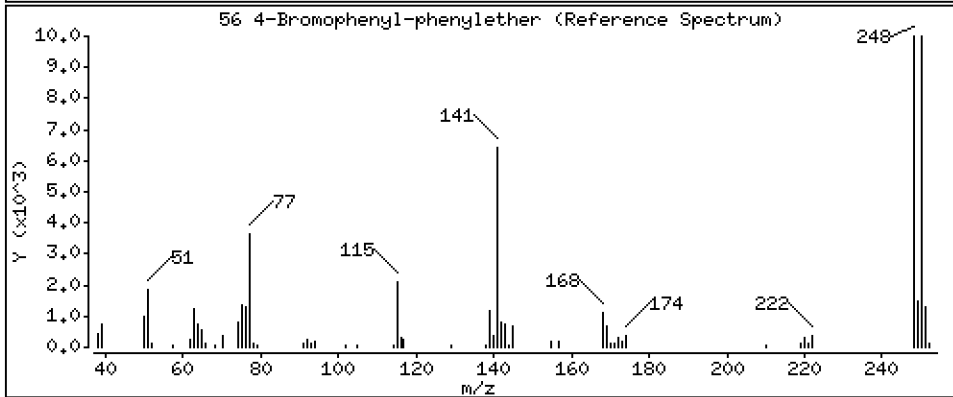
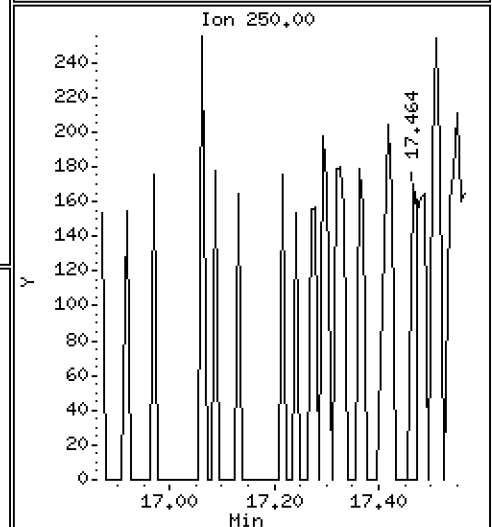
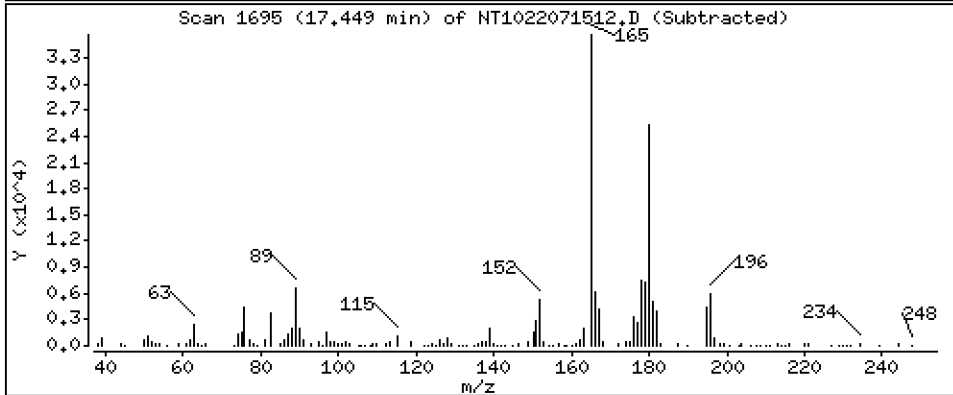
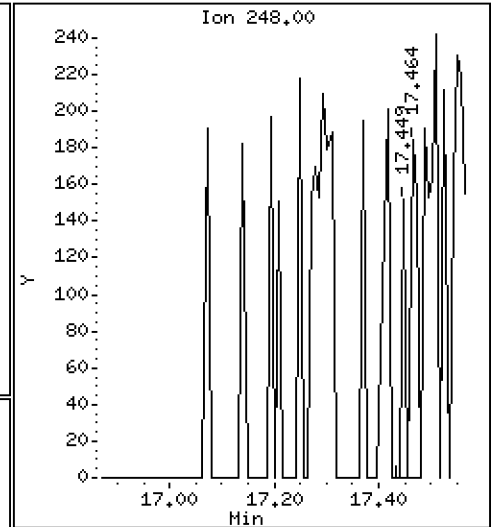
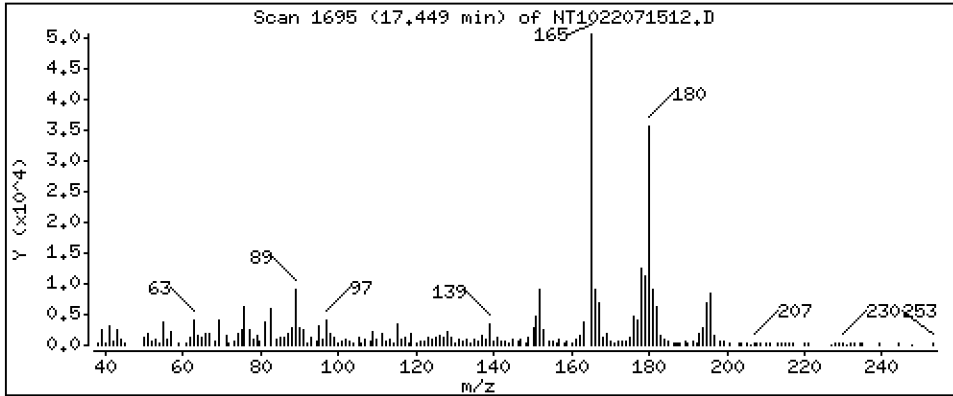
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,01942 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05,10

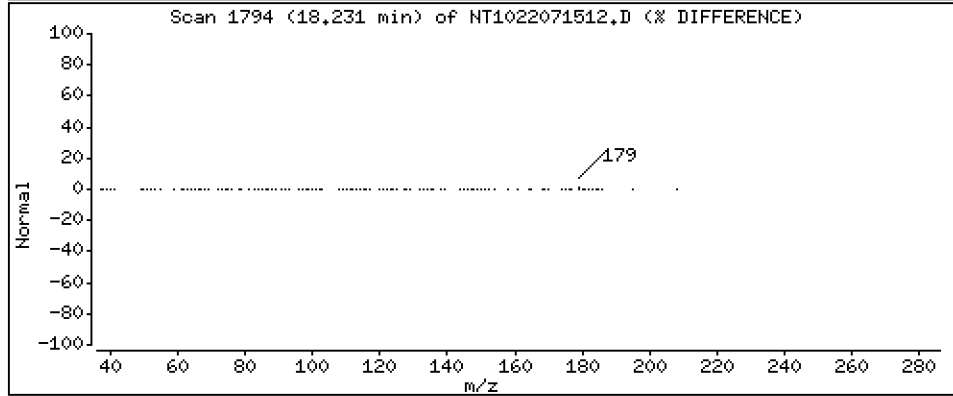
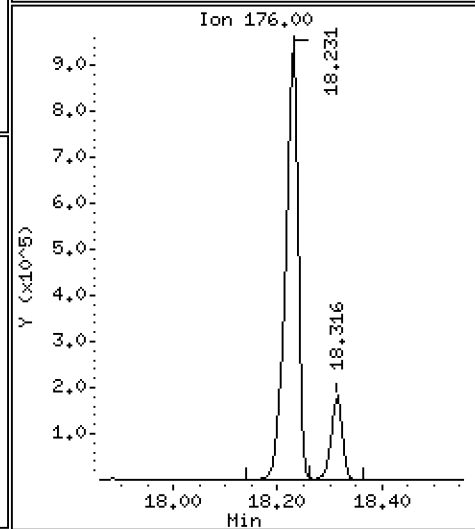
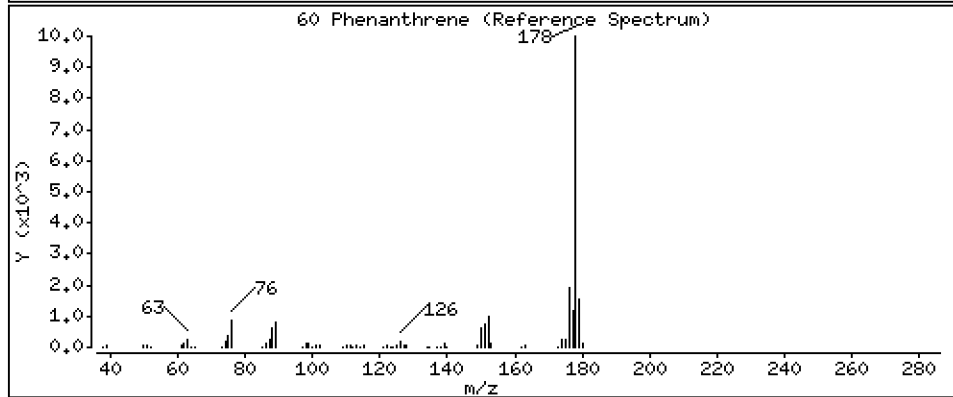
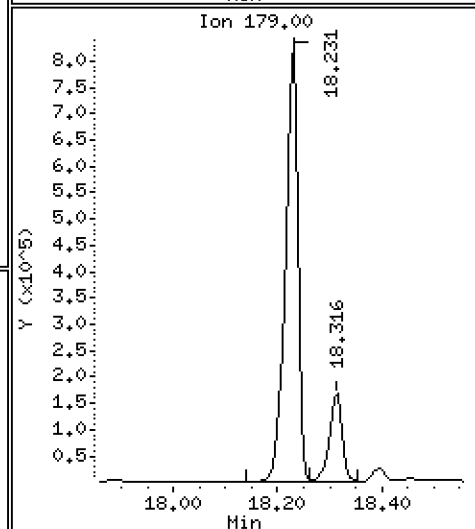
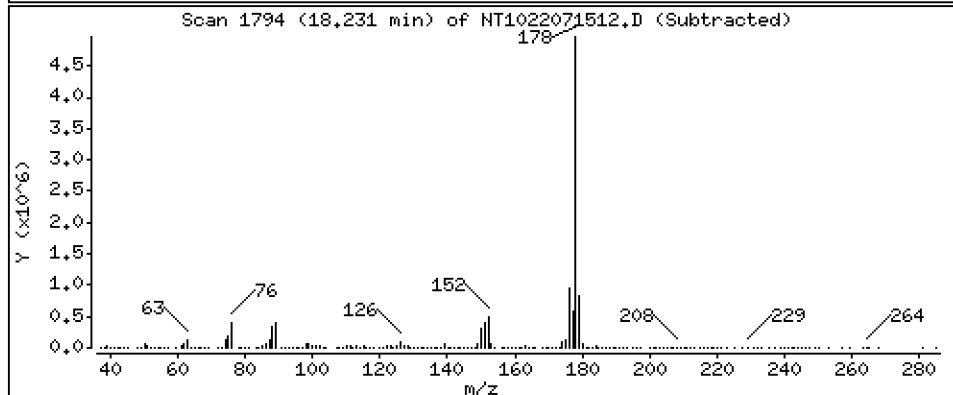
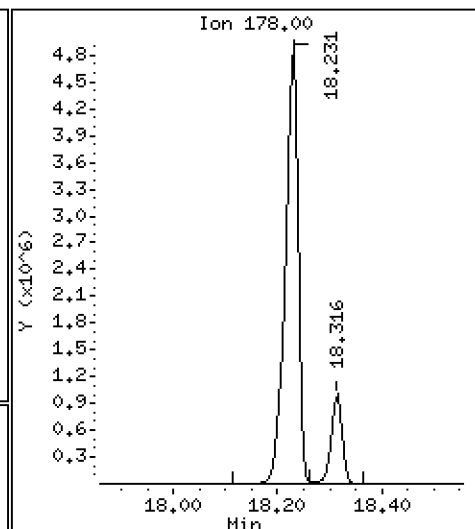
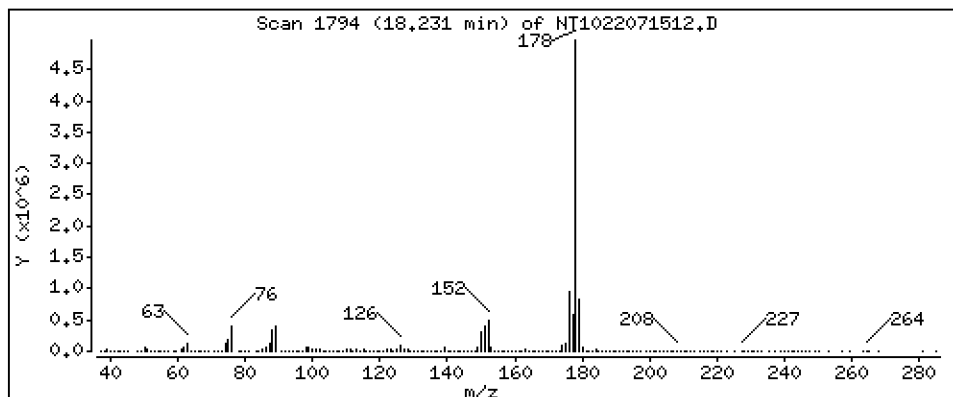
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 659,6 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

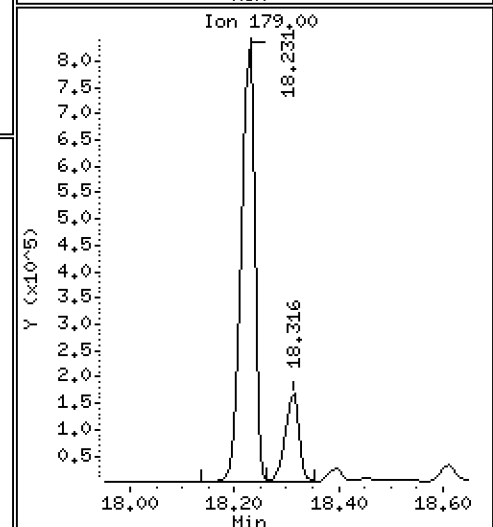
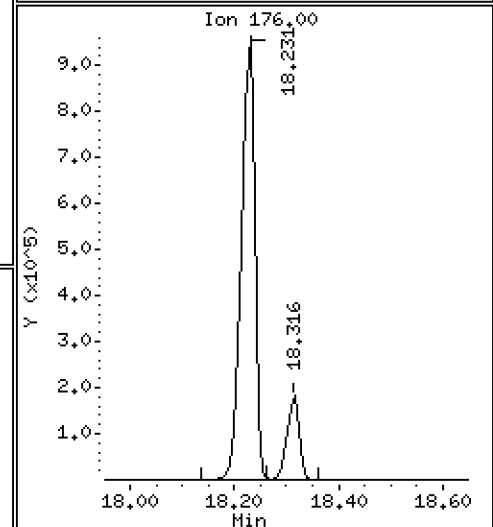
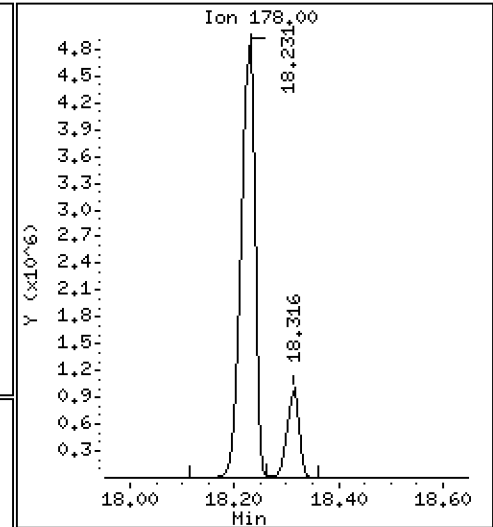
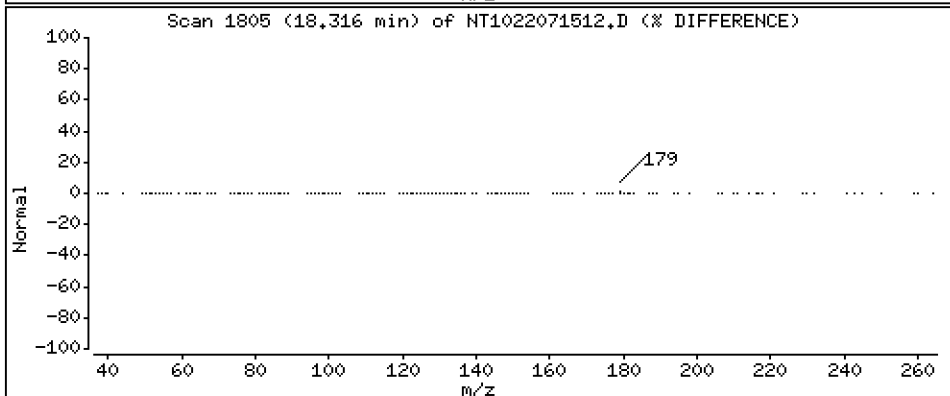
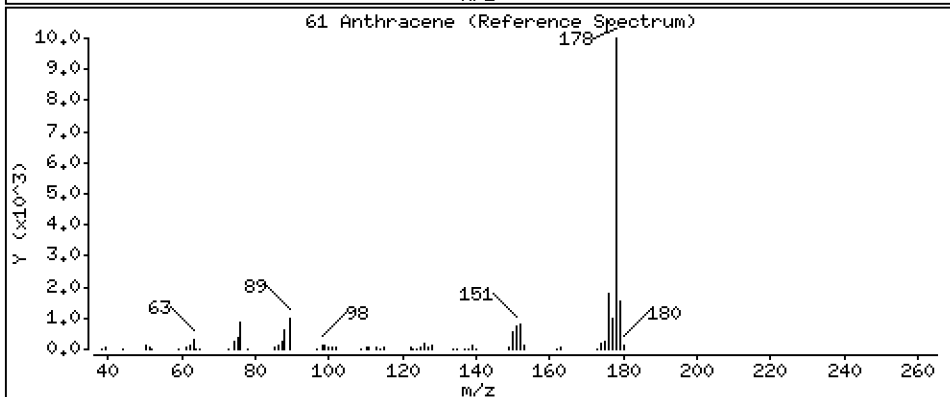
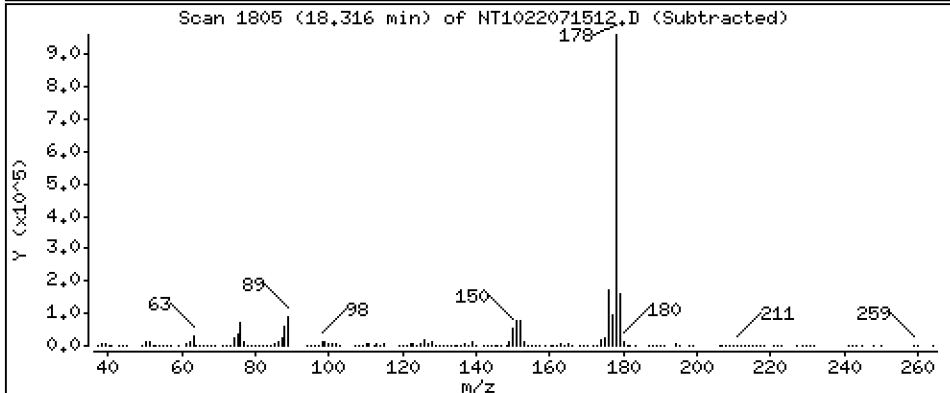
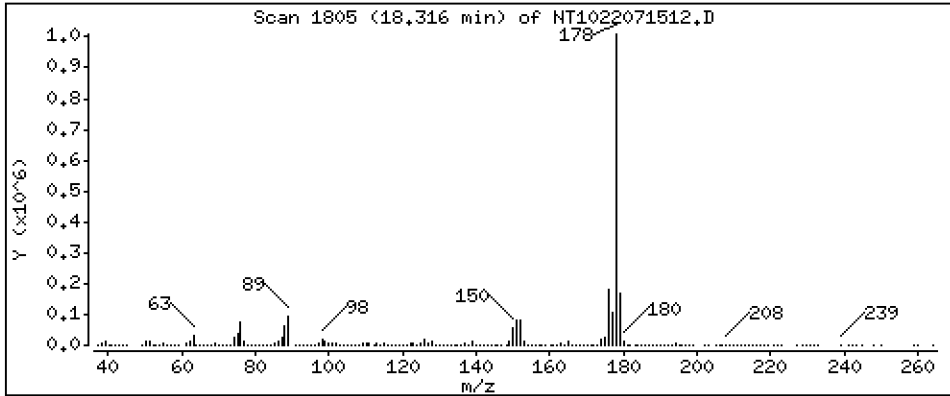
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 111,6 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

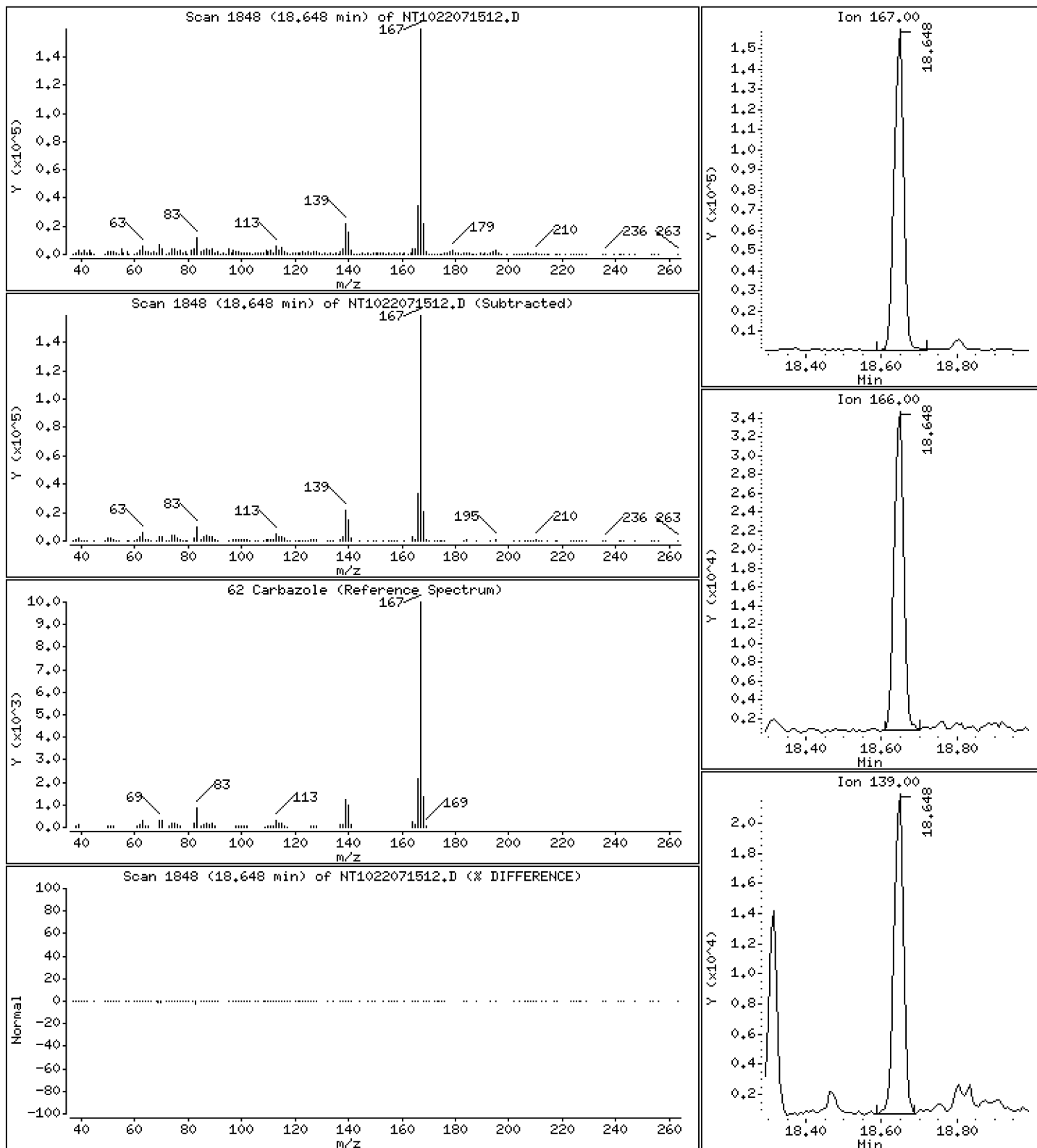
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 20,87 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

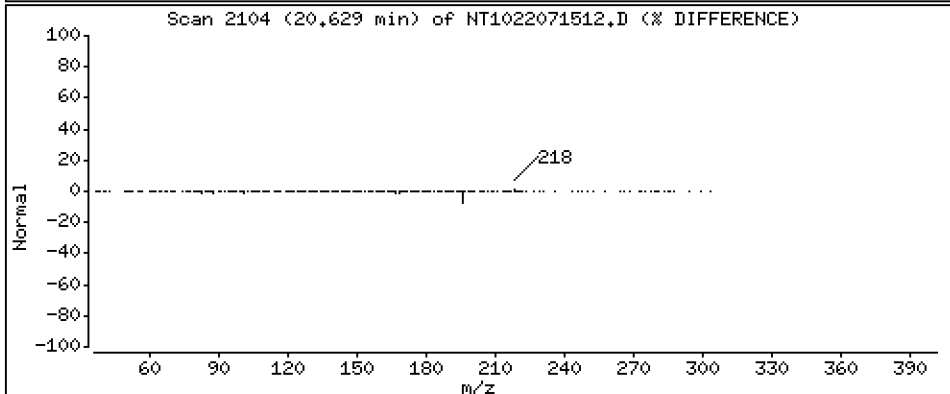
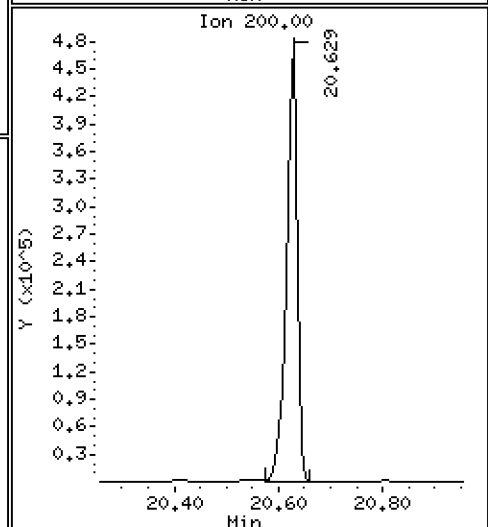
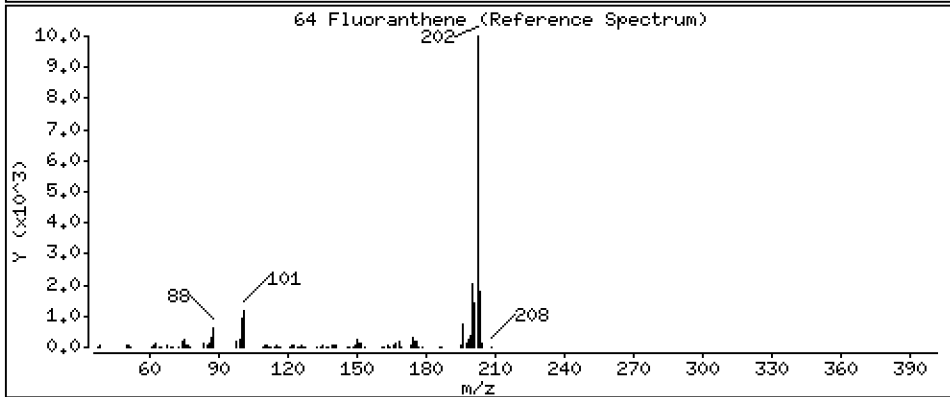
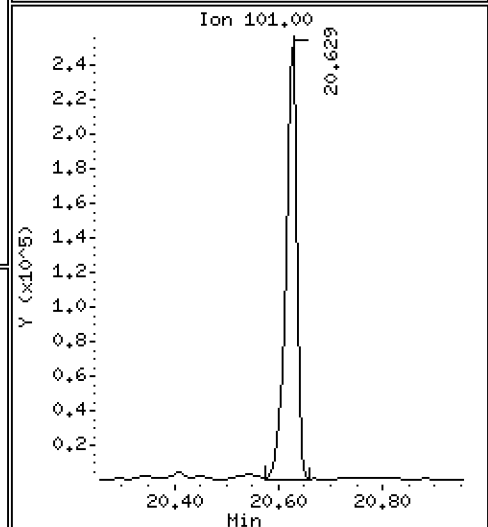
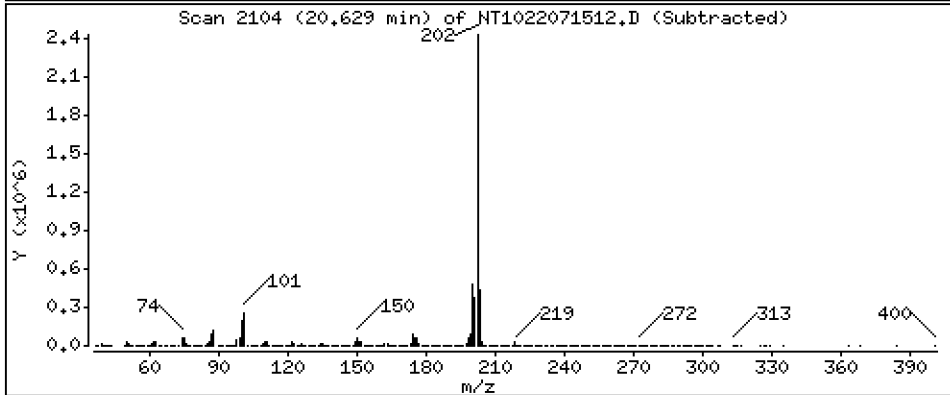
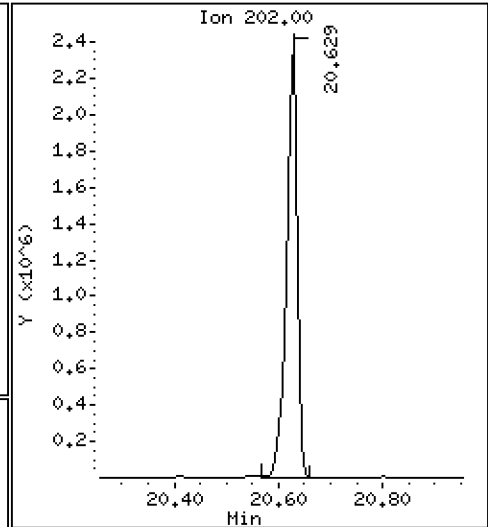
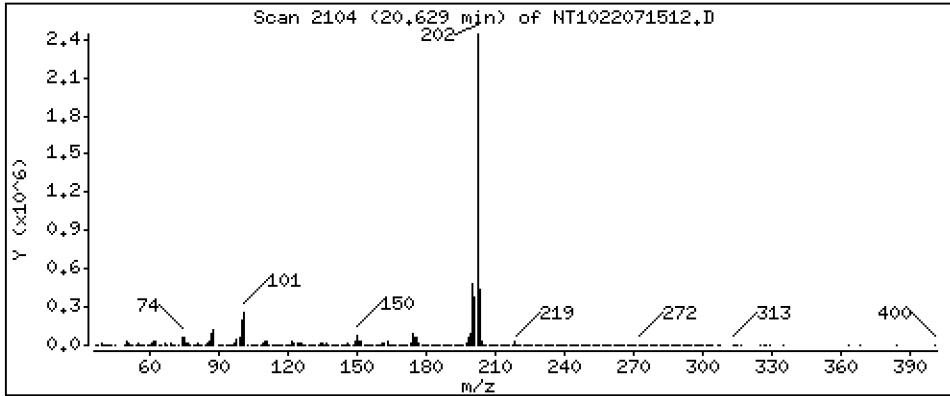
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 301,6 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

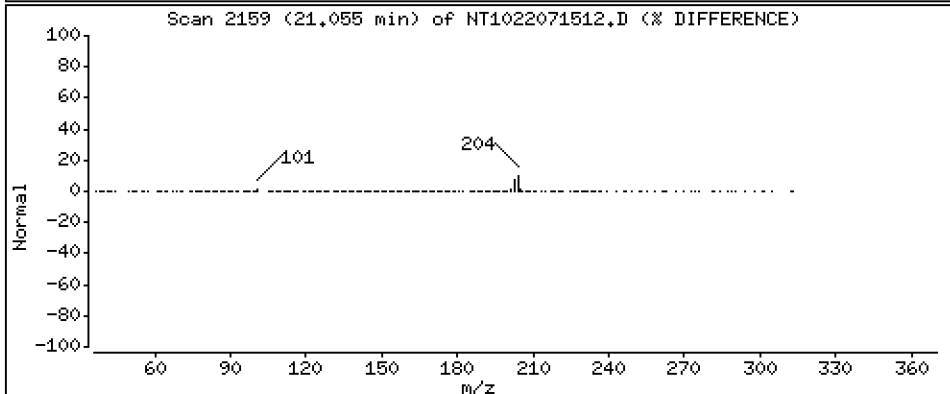
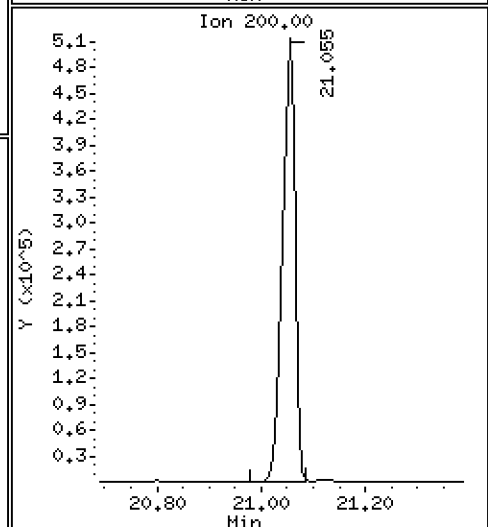
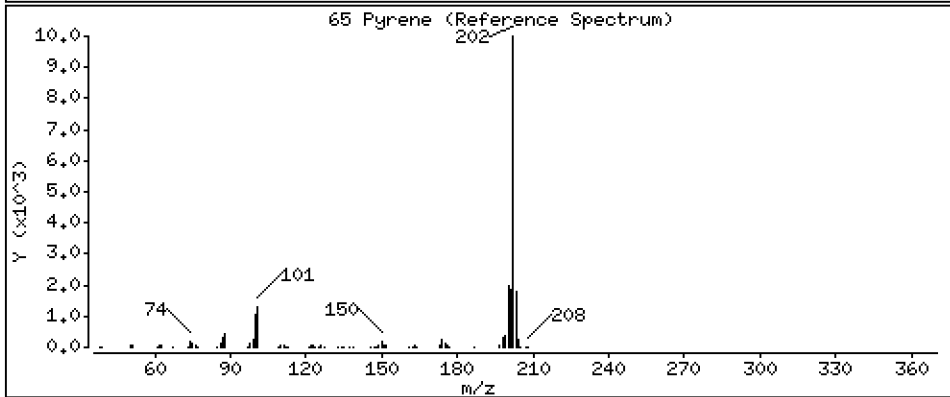
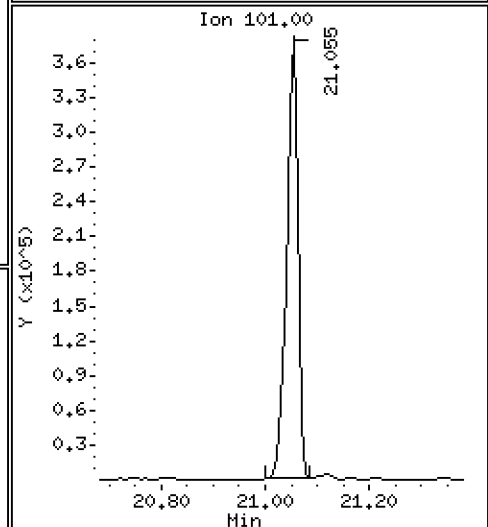
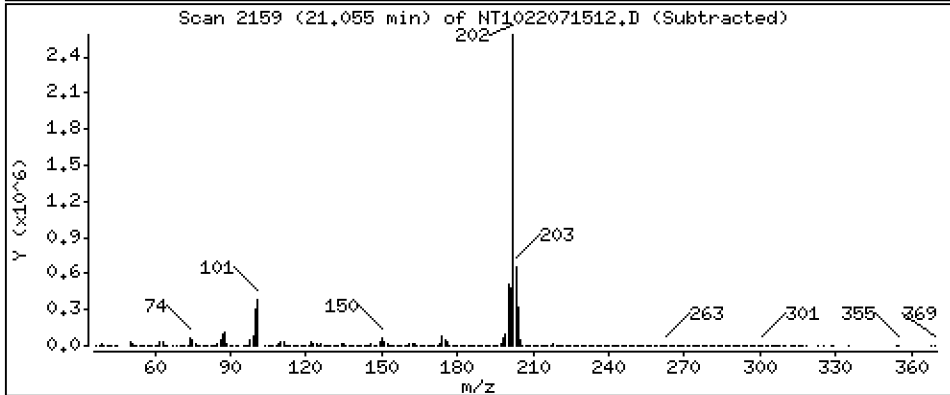
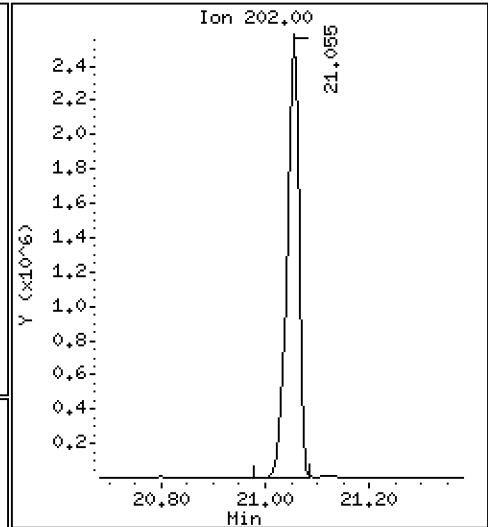
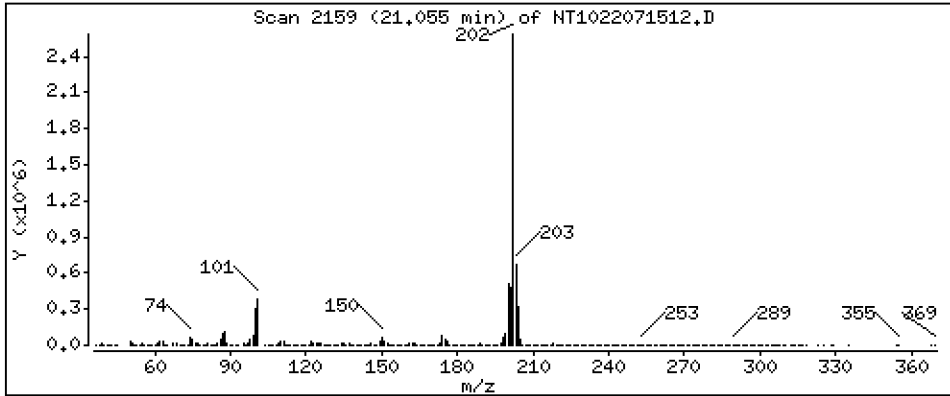
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 304,8 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

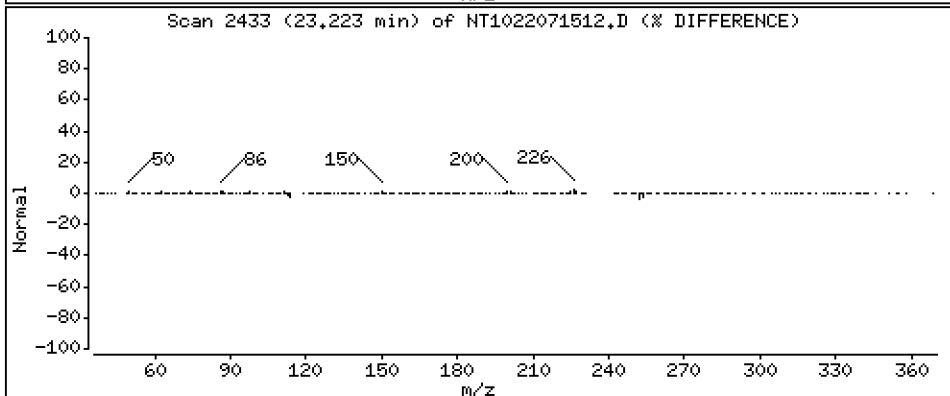
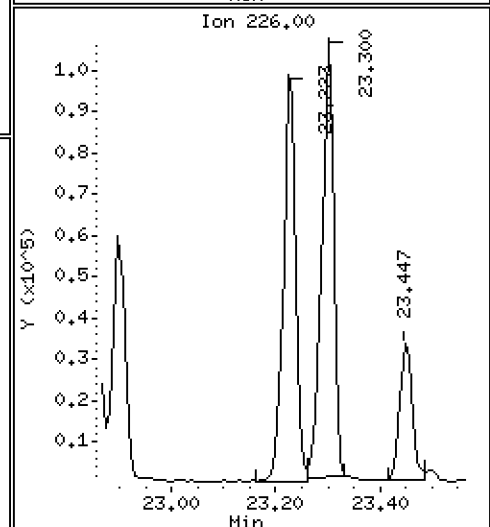
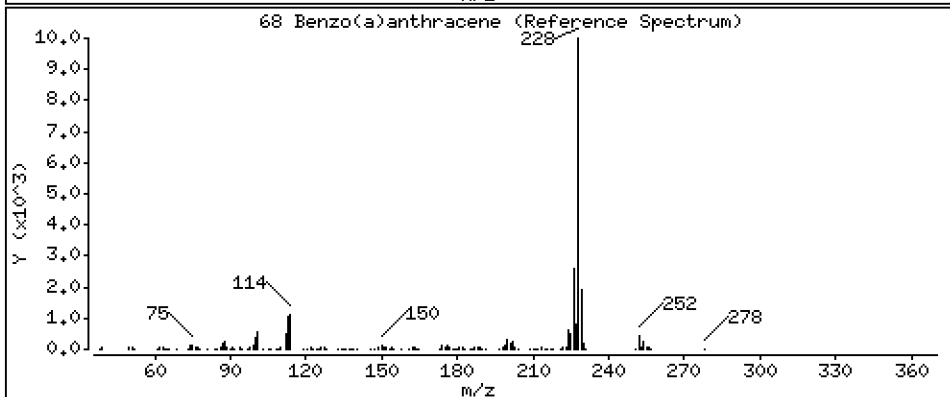
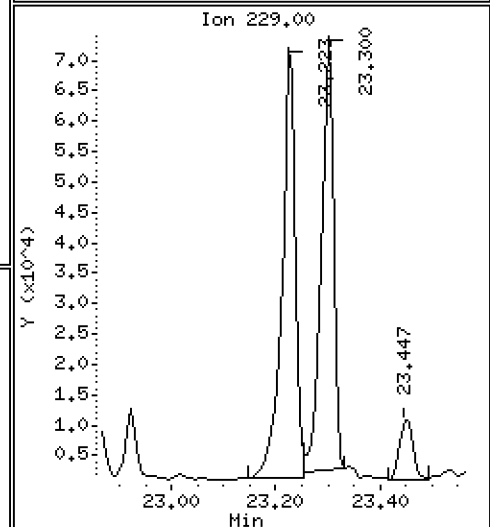
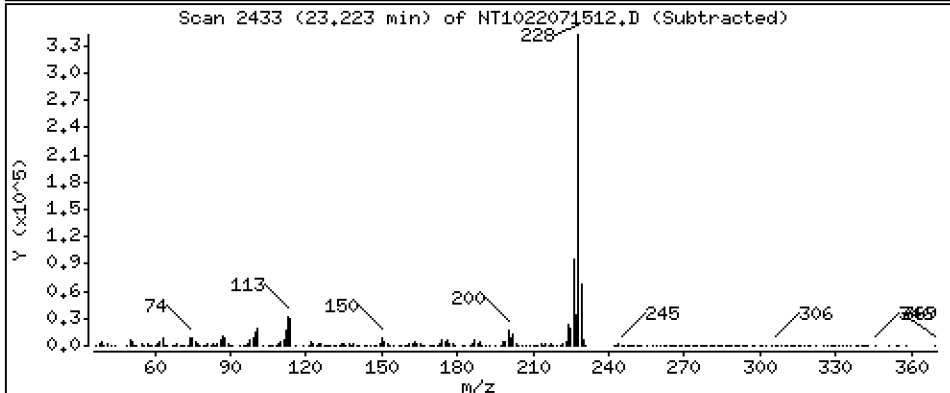
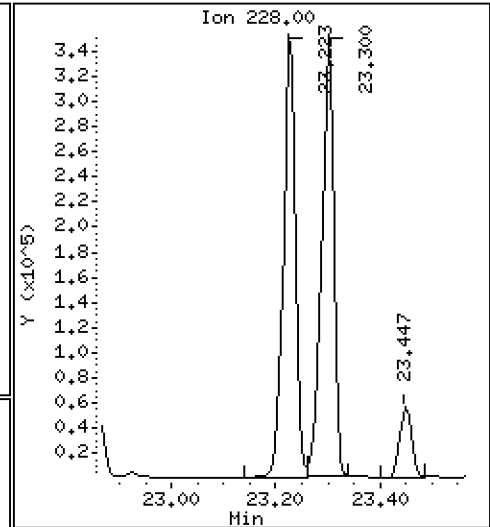
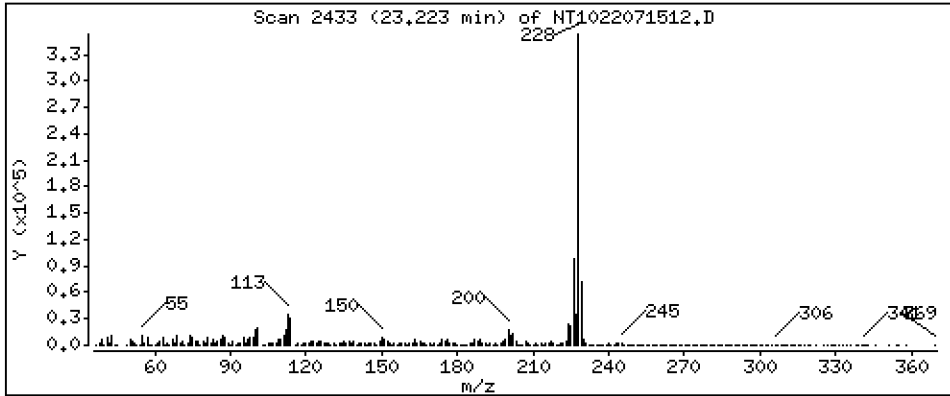
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 122,3 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

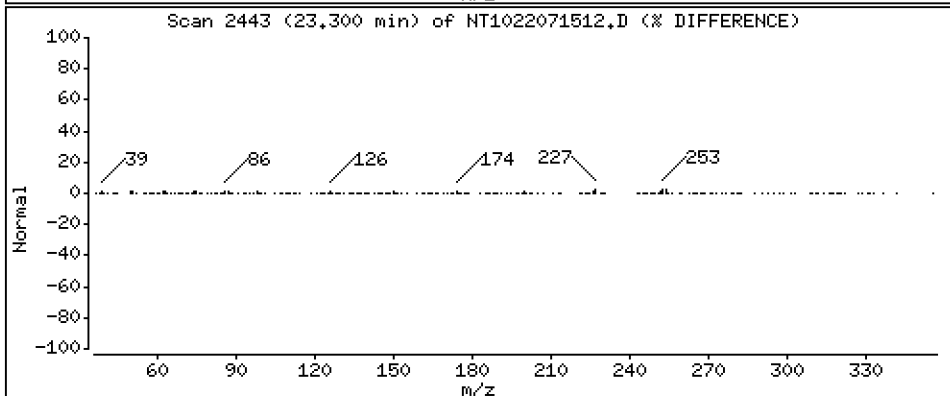
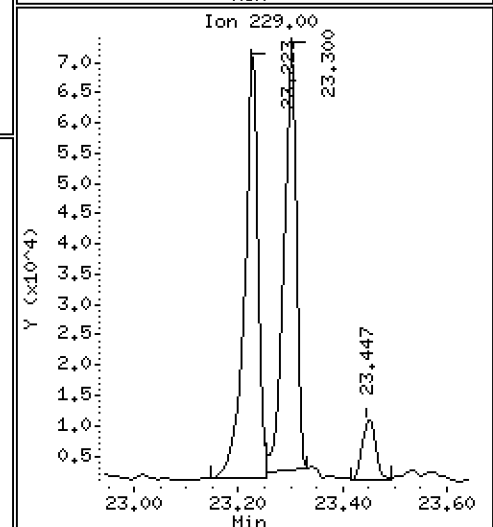
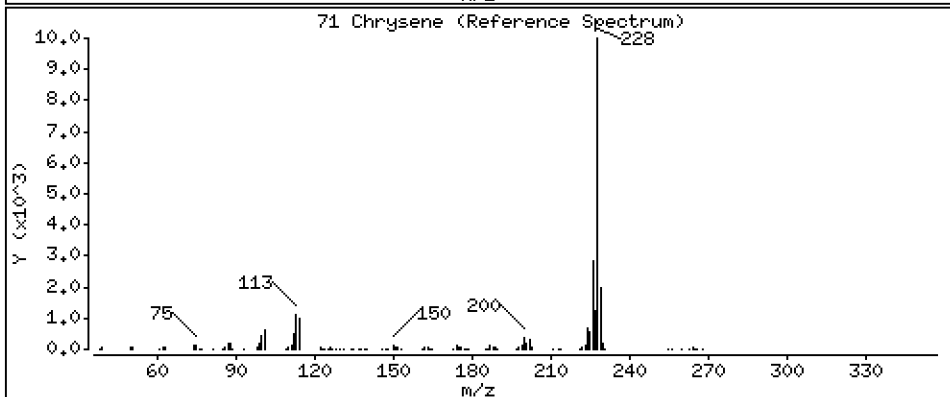
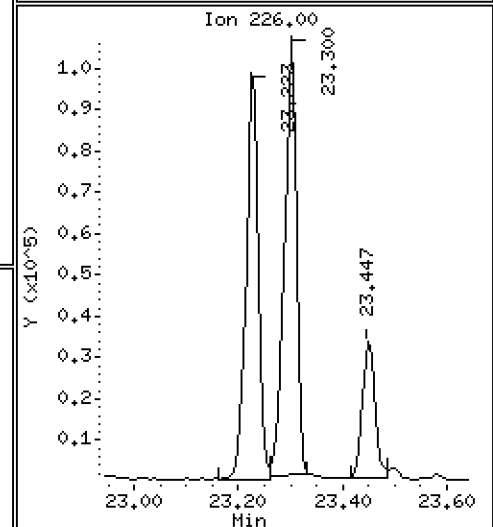
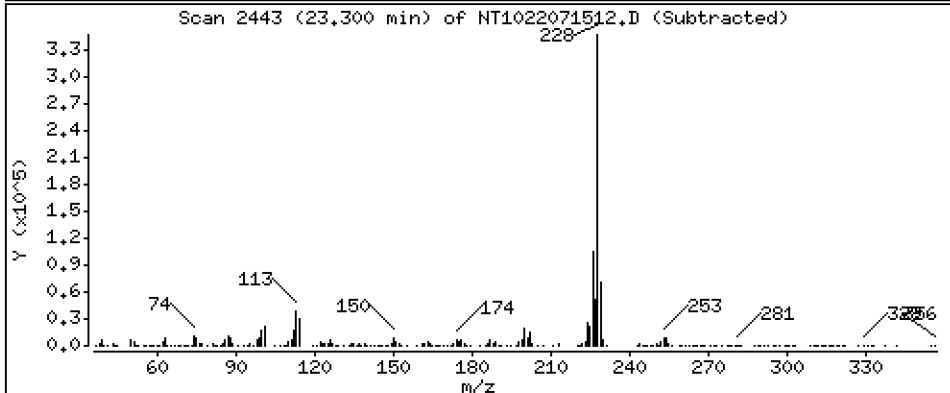
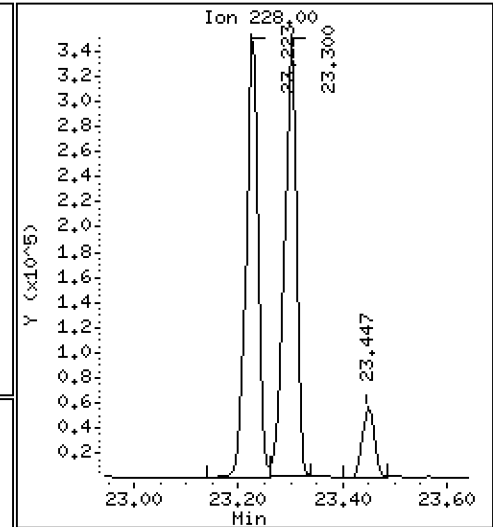
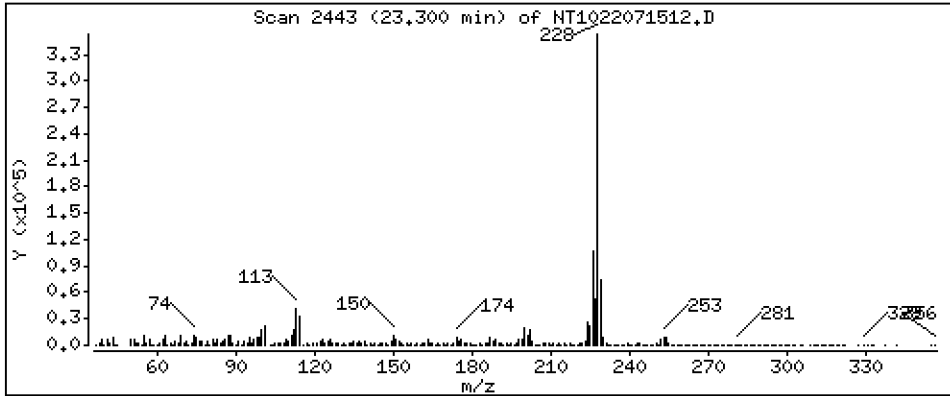
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 146,5 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05,10

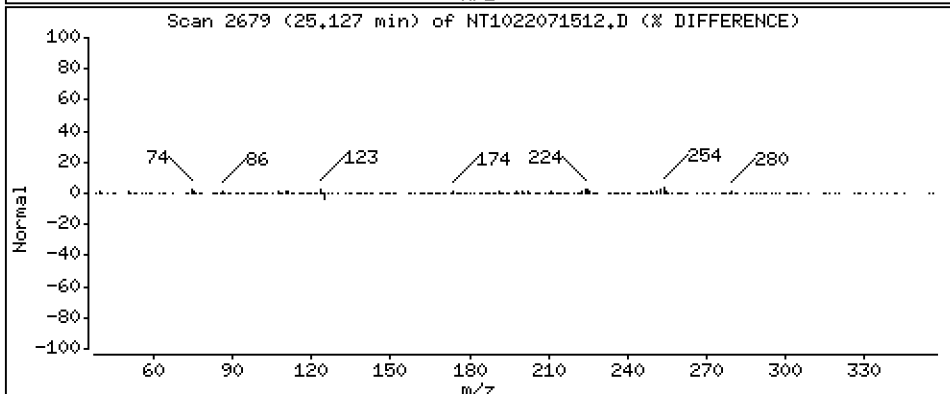
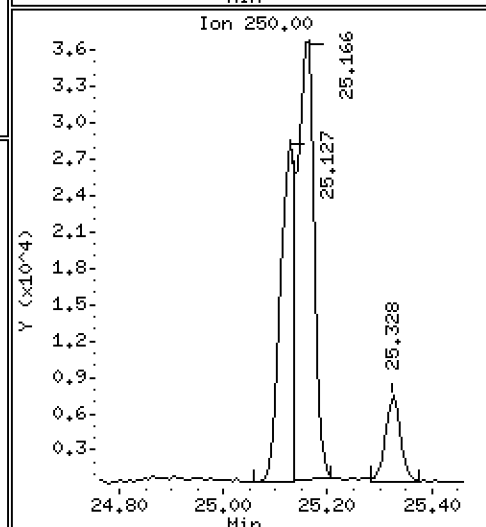
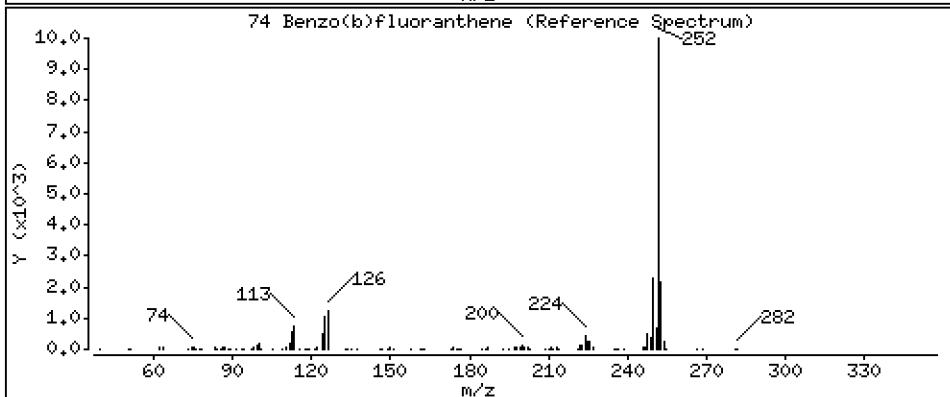
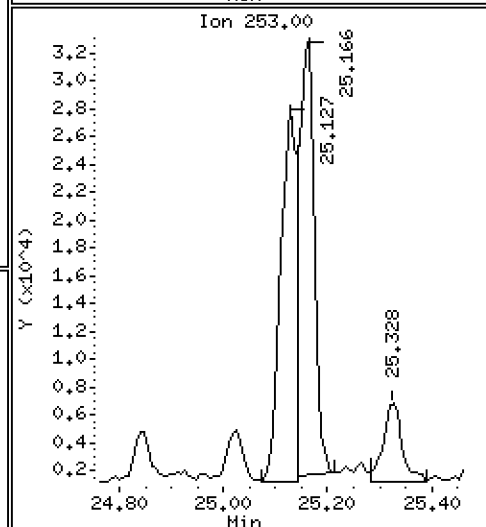
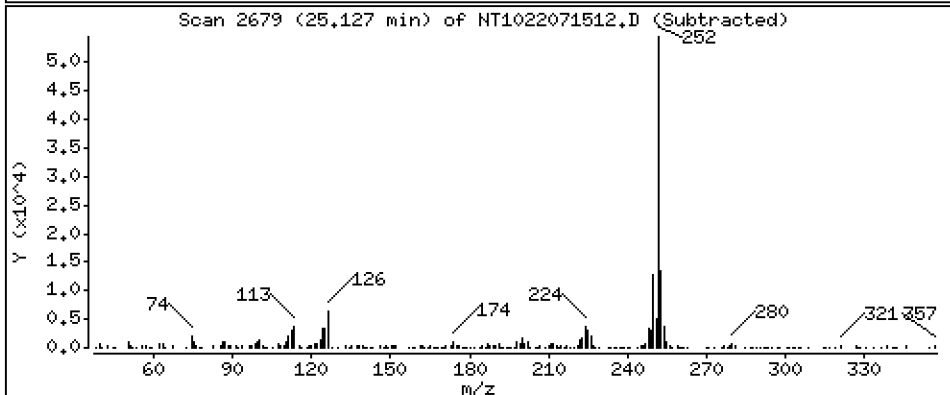
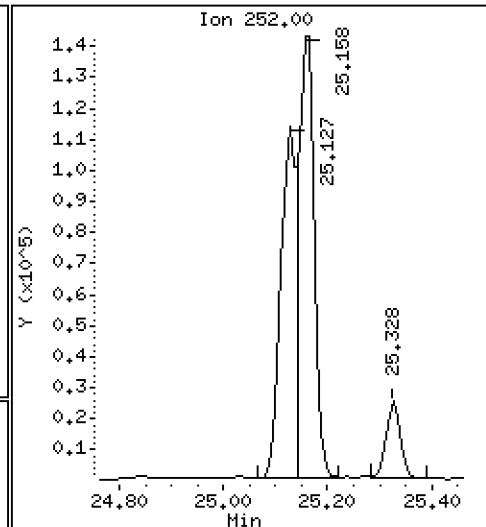
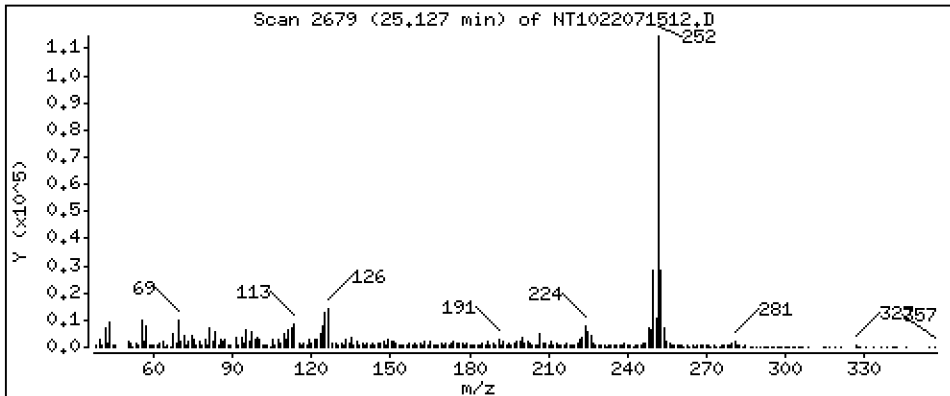
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 61,46 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05,10

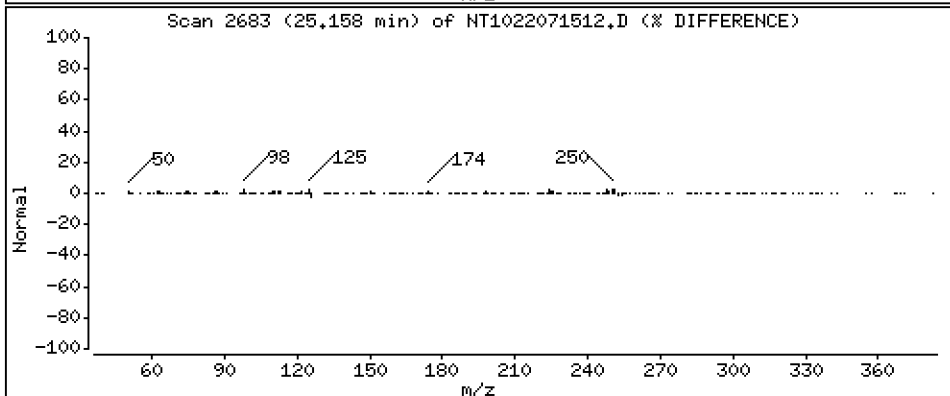
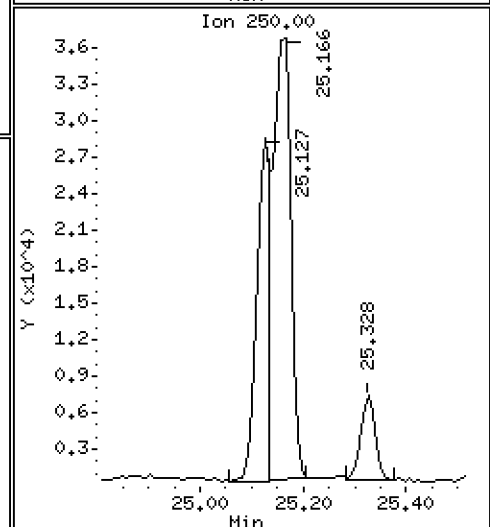
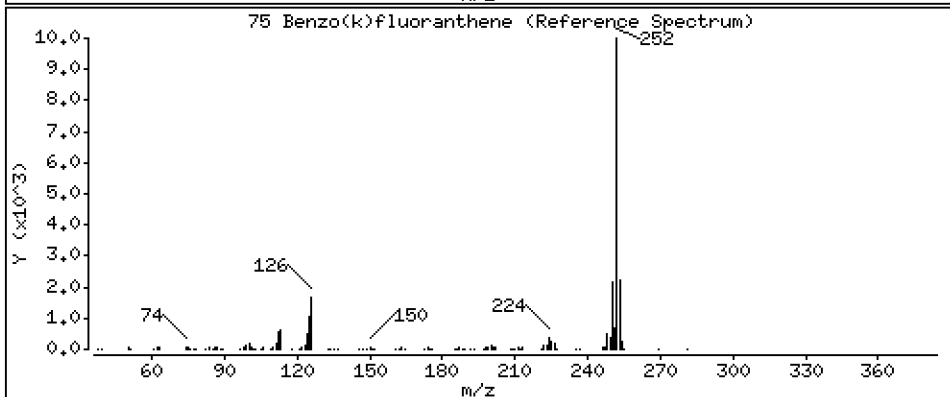
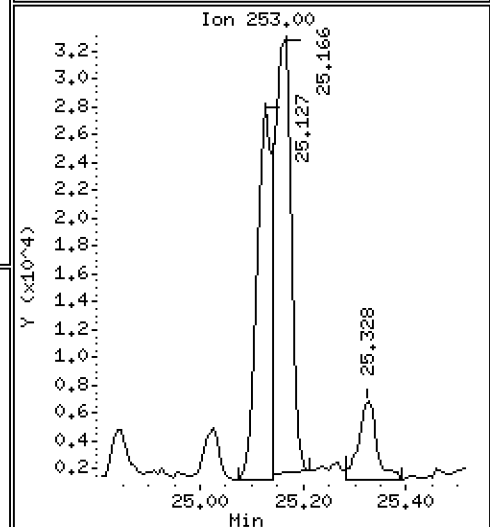
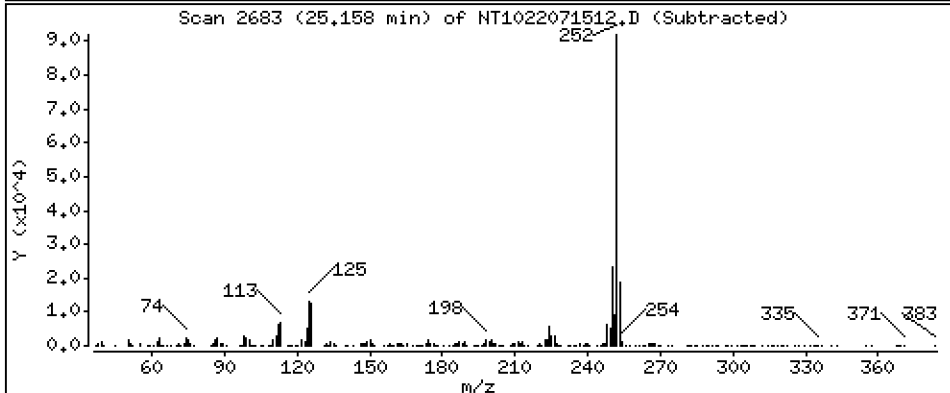
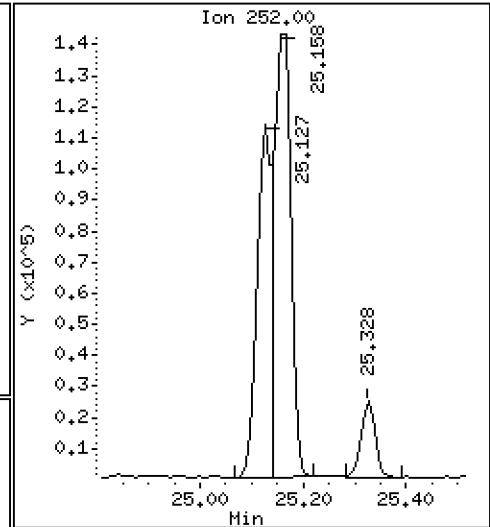
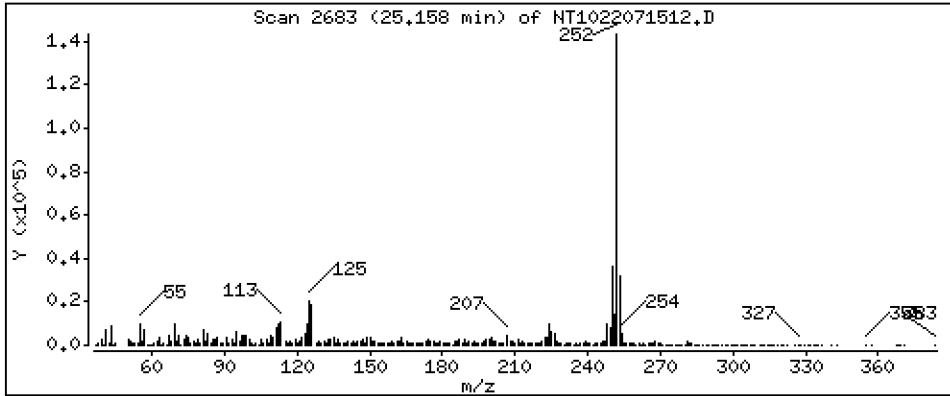
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 78,51 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05,10

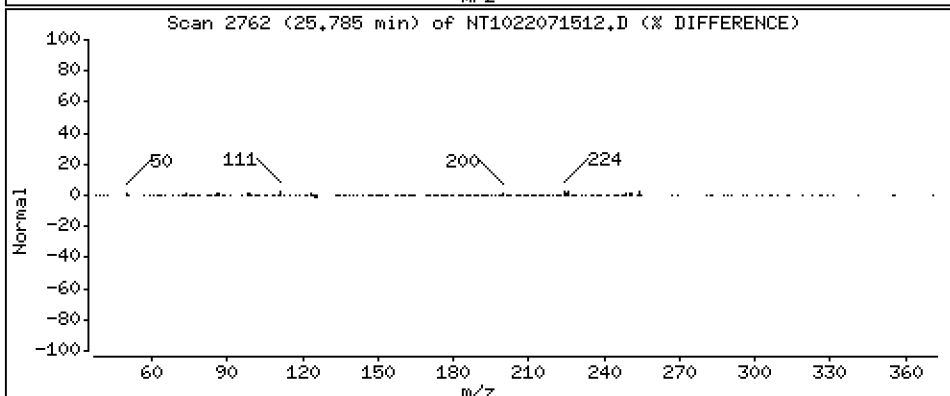
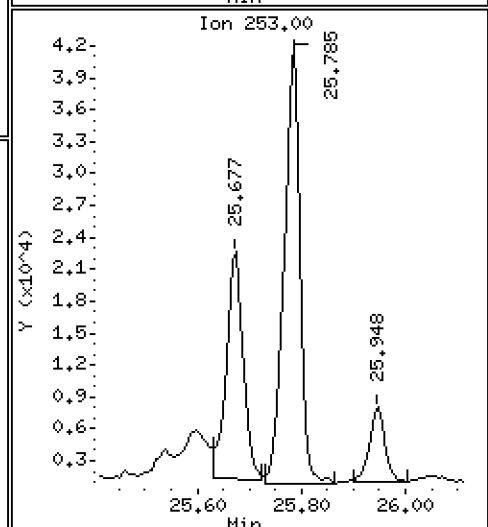
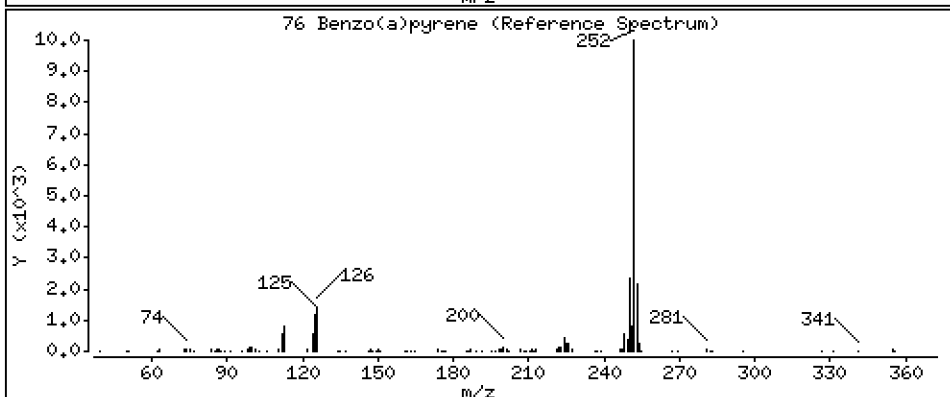
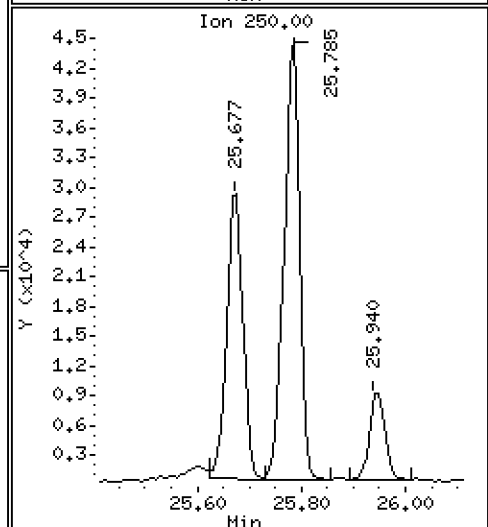
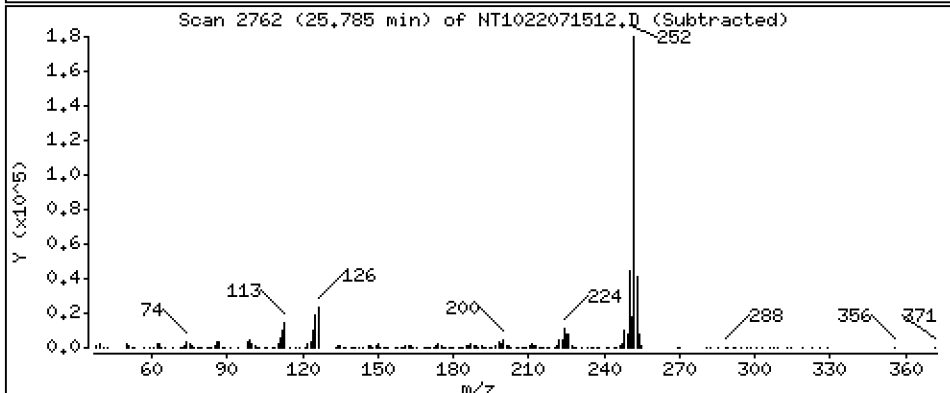
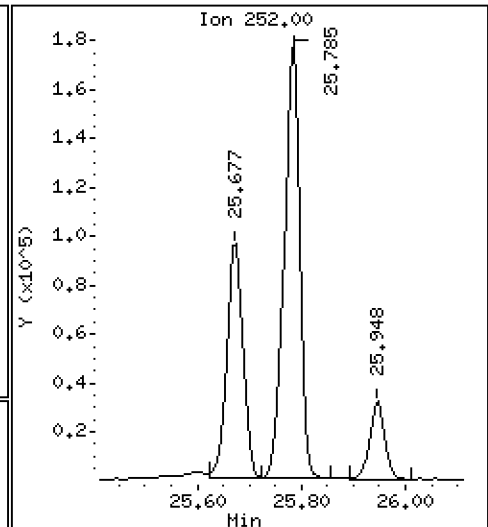
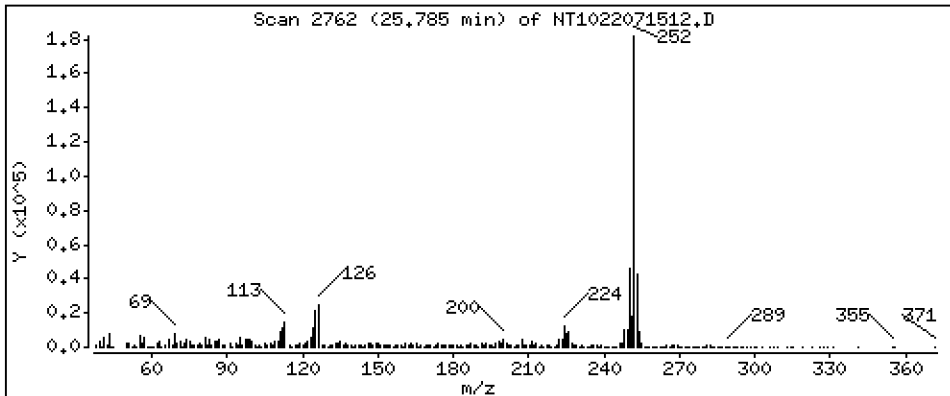
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 111,5 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

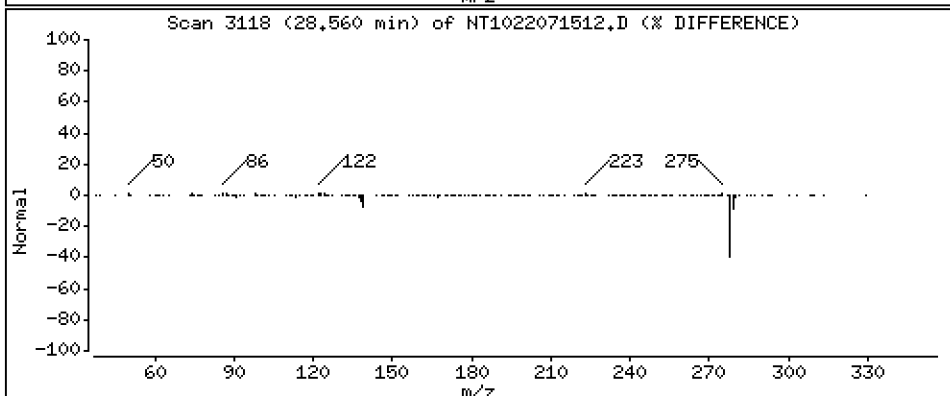
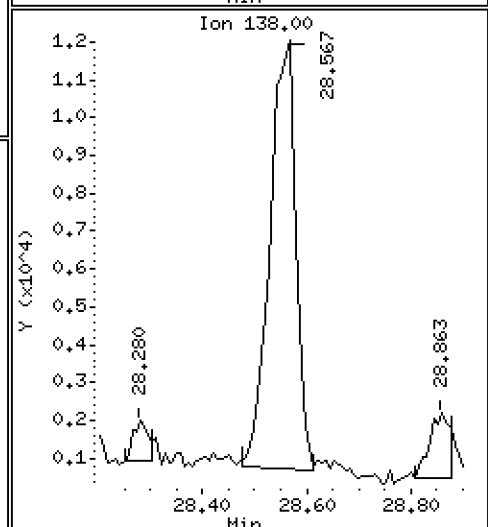
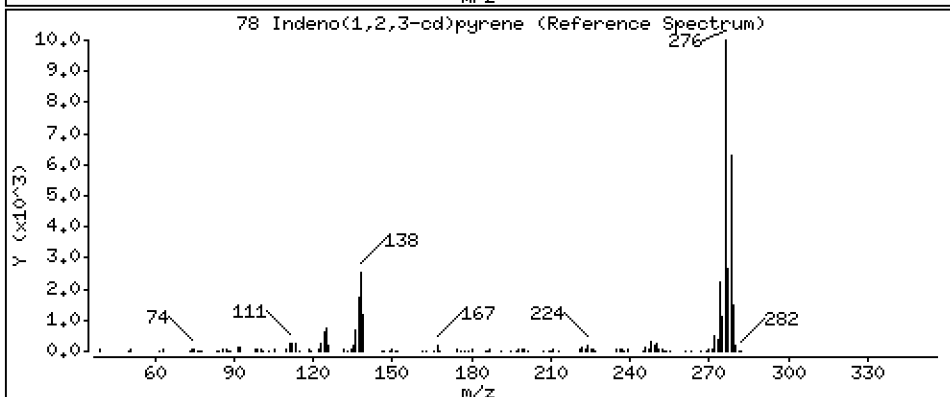
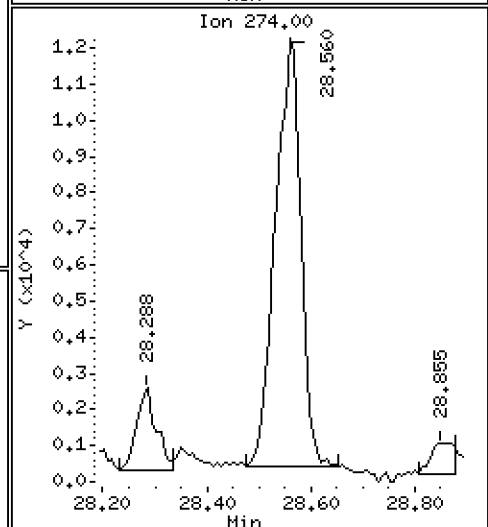
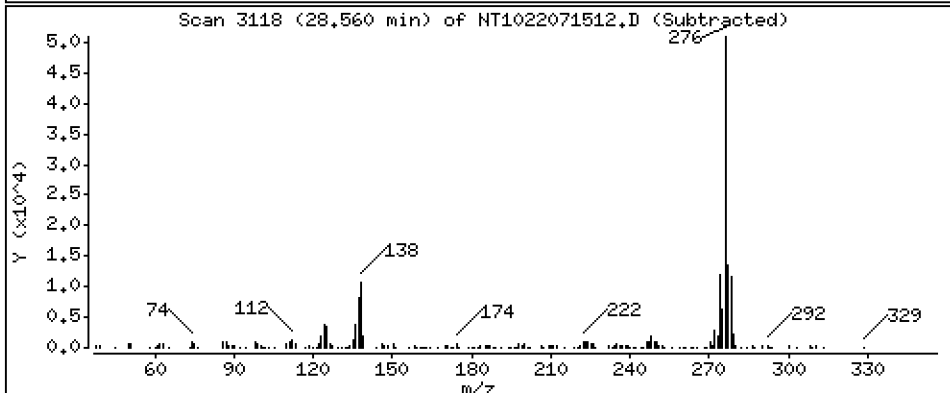
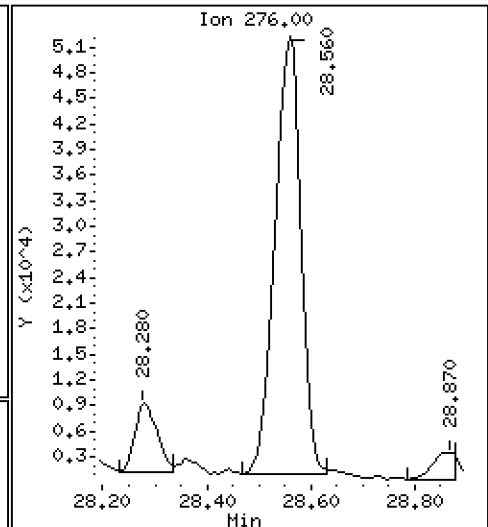
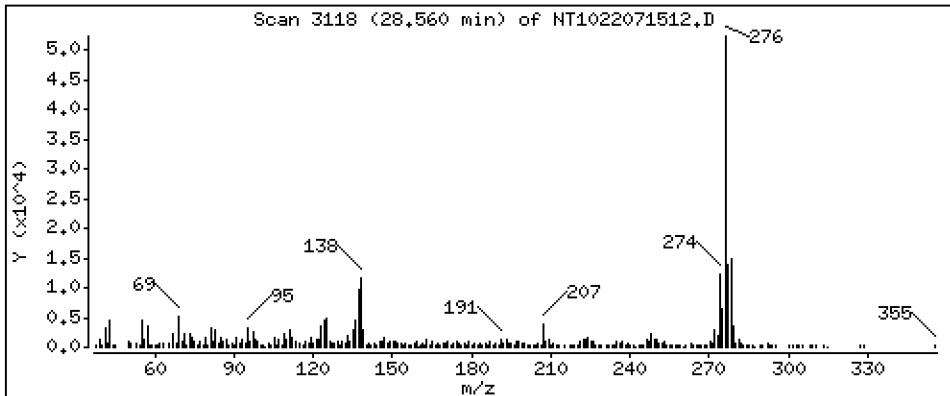
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 49,50 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

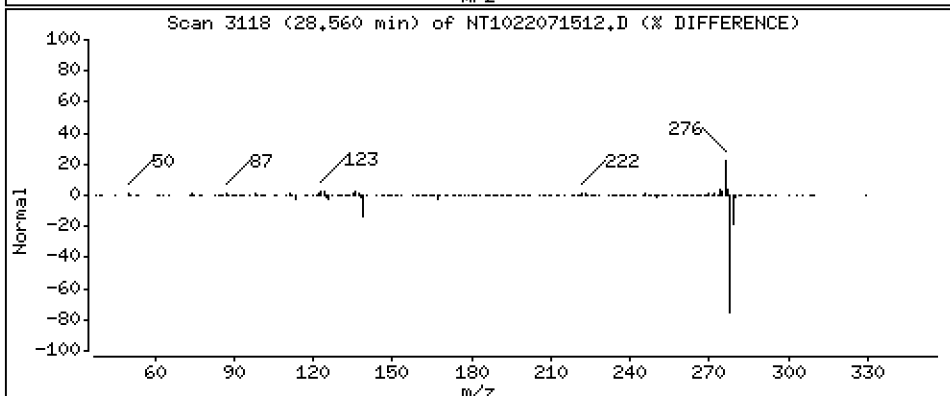
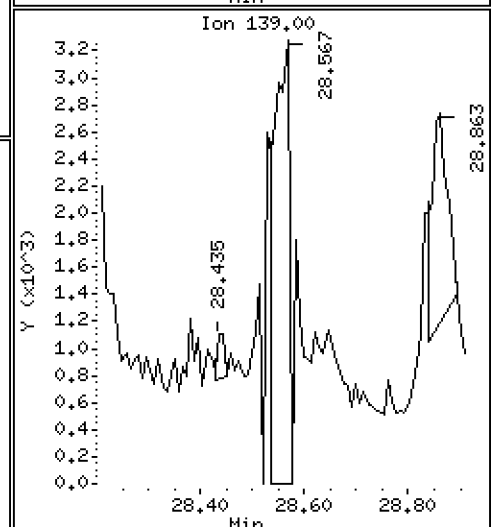
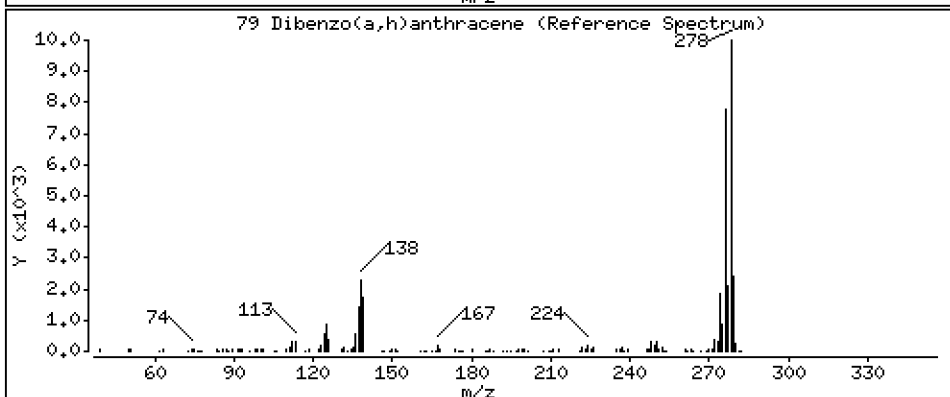
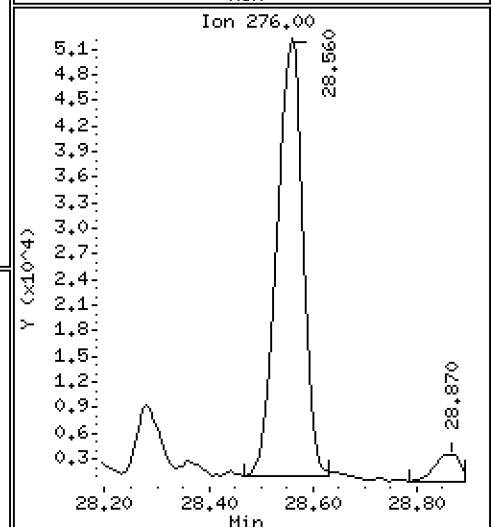
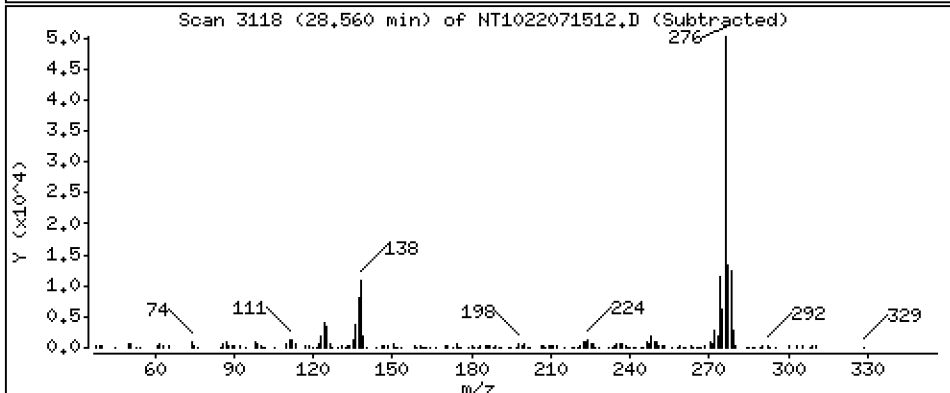
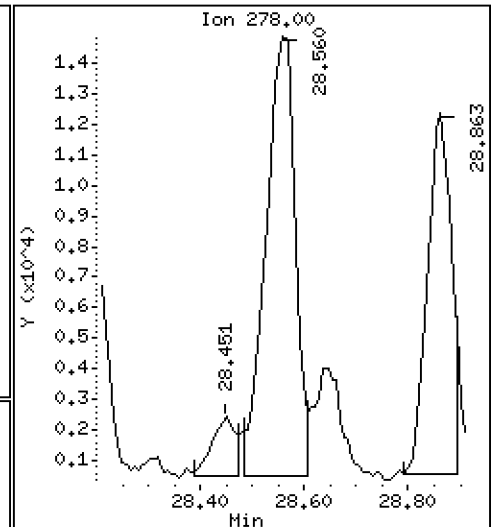
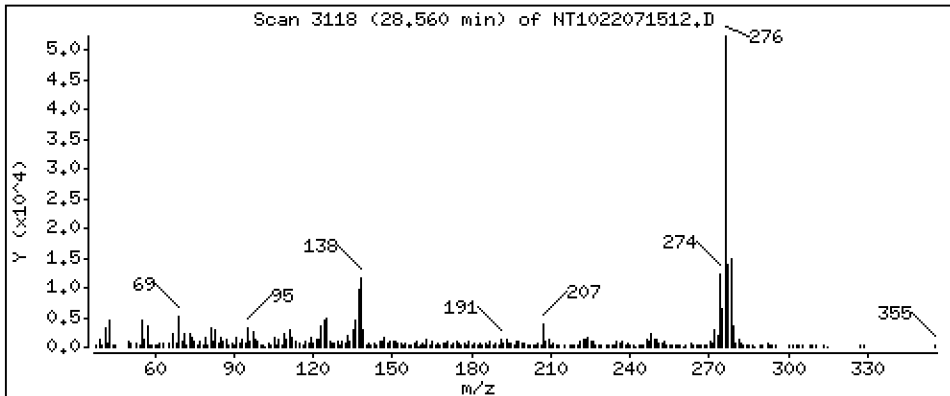
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 20,95 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

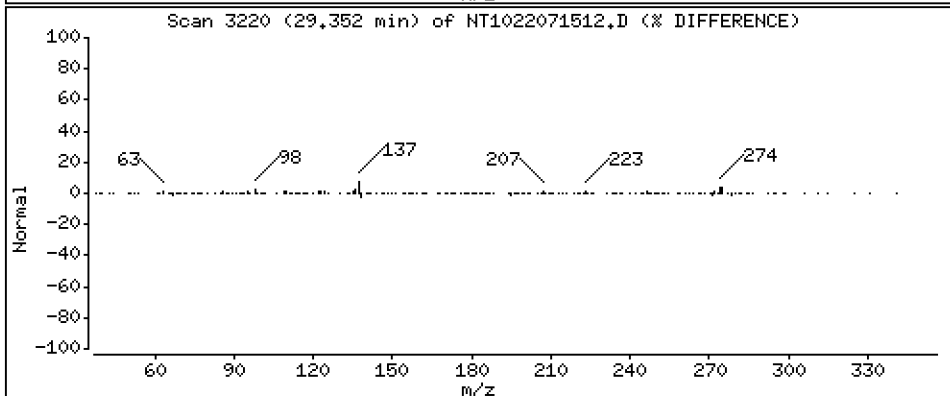
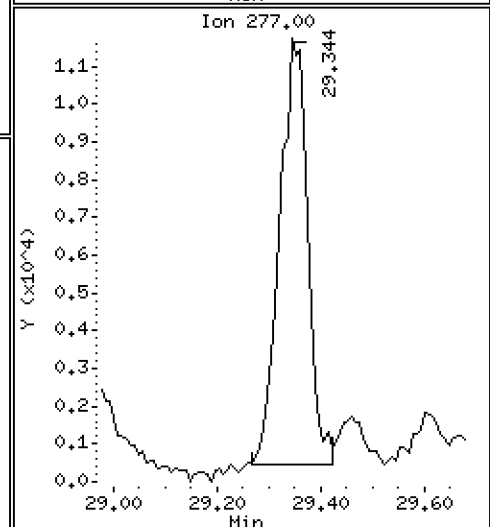
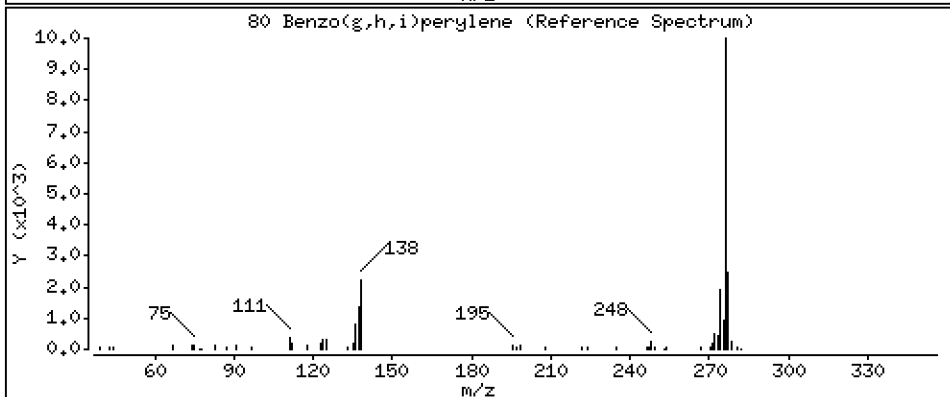
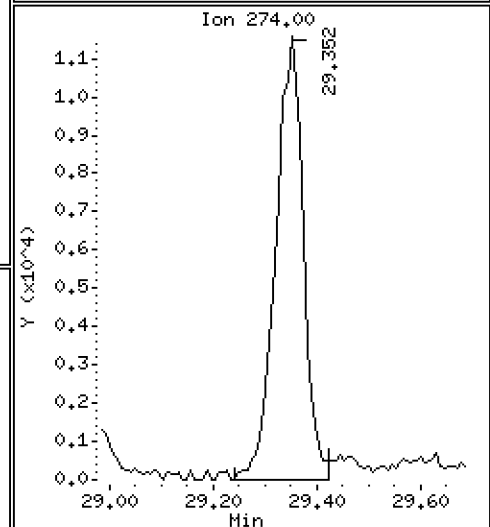
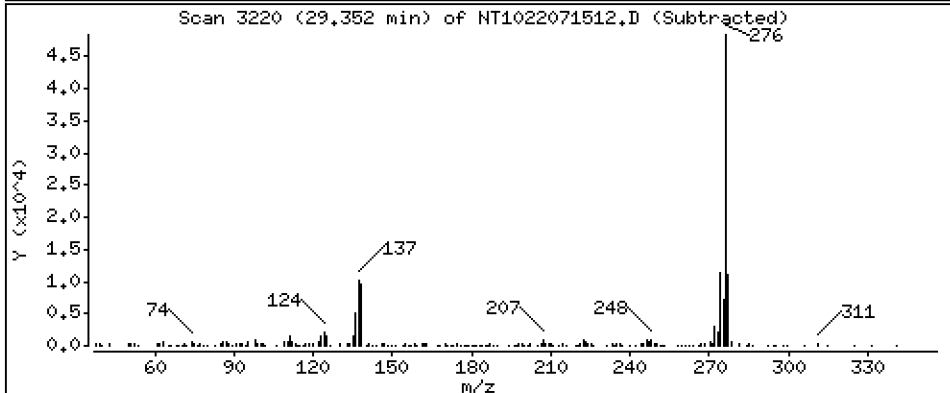
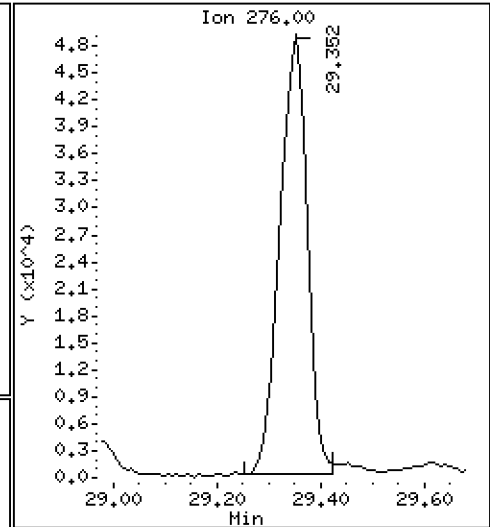
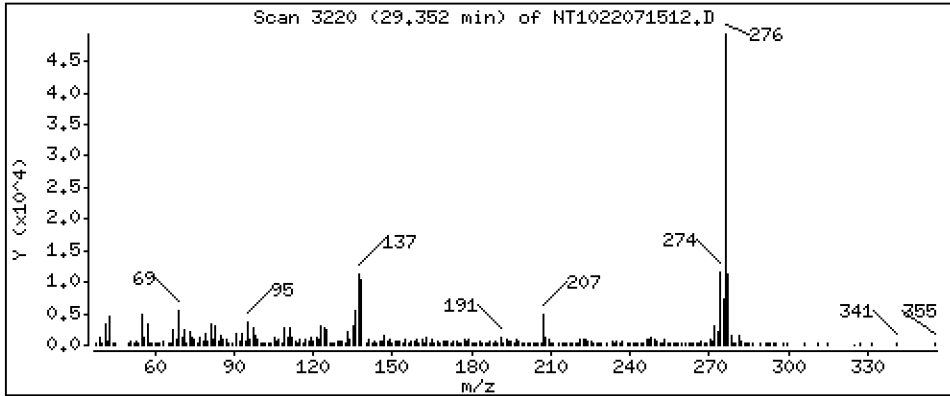
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 63,31 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05,10

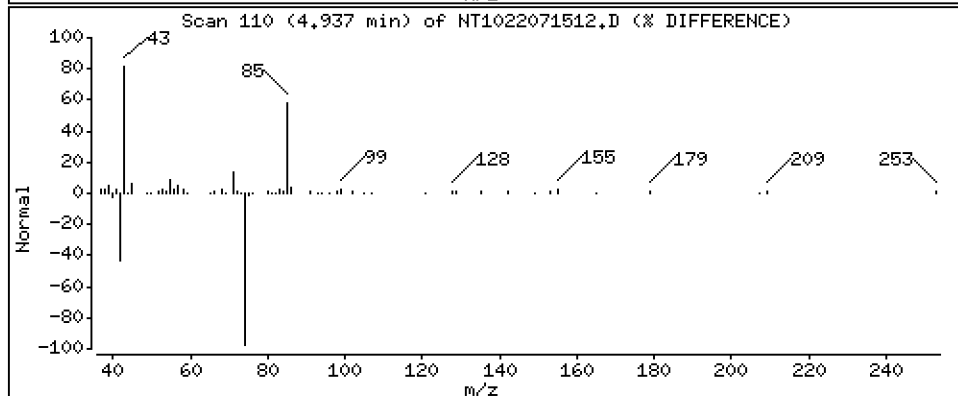
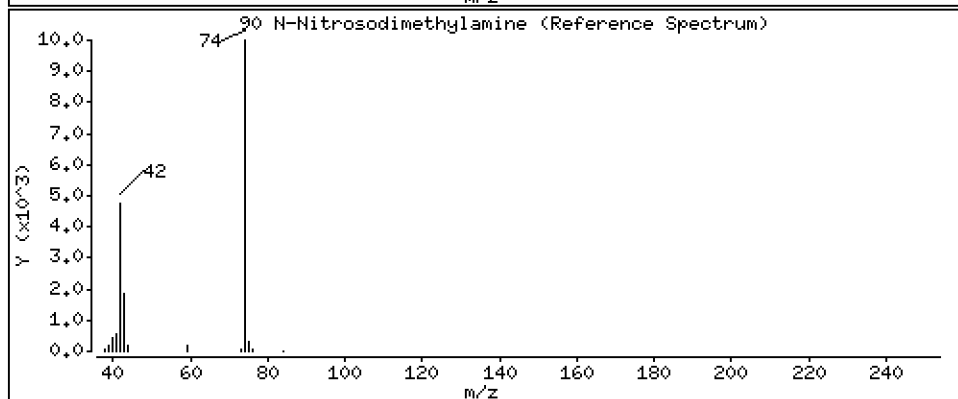
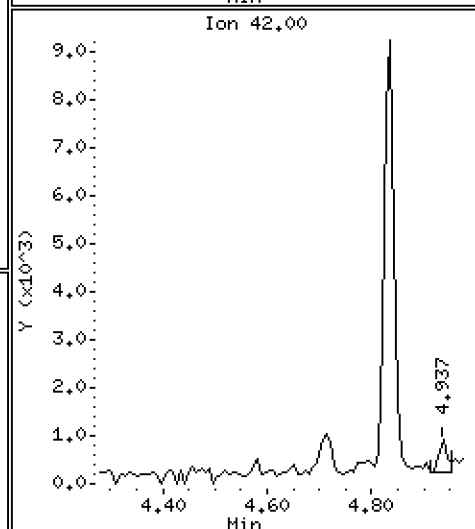
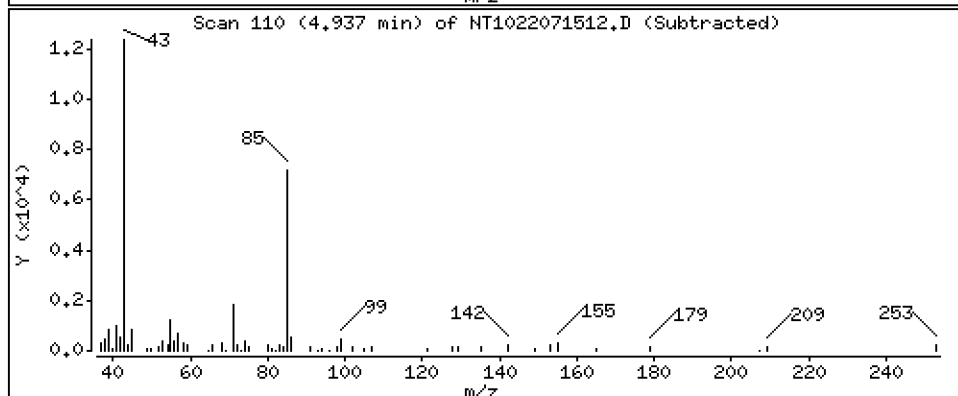
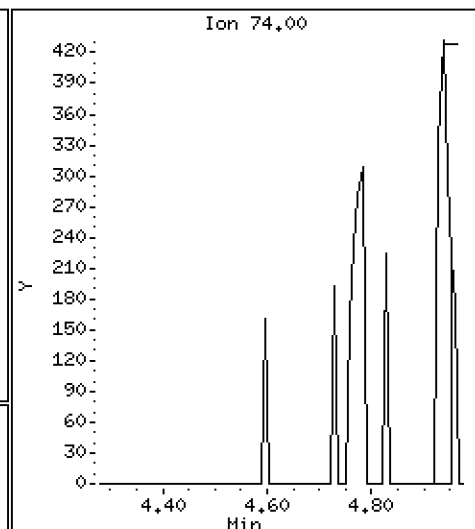
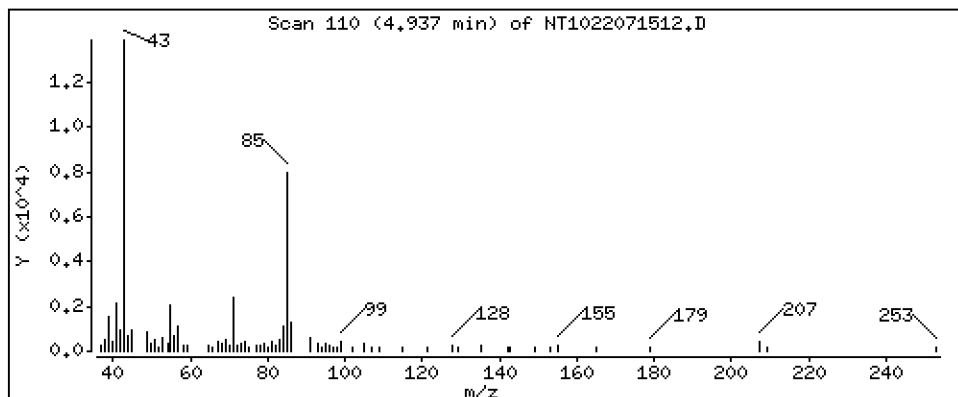
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,08630 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05,10

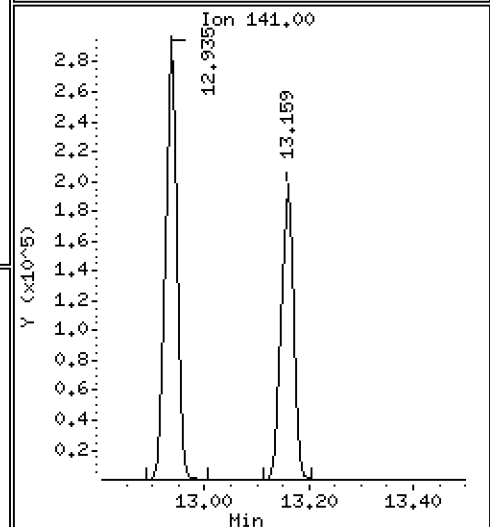
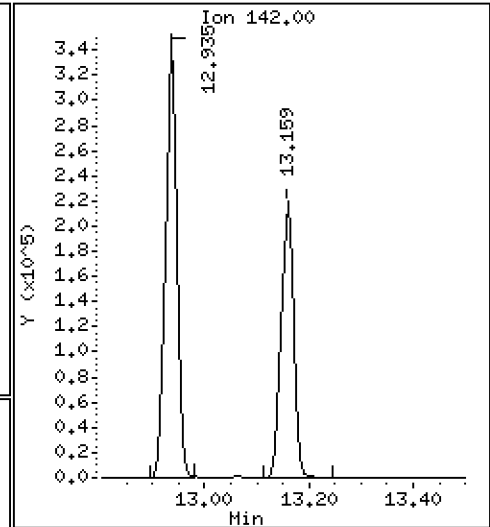
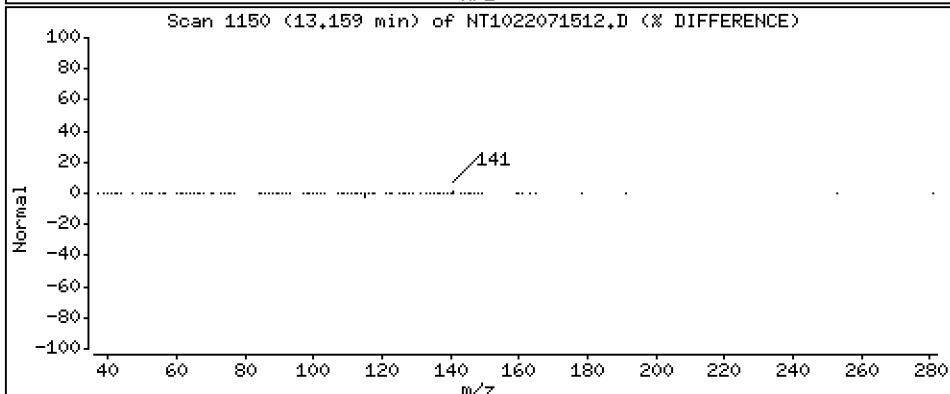
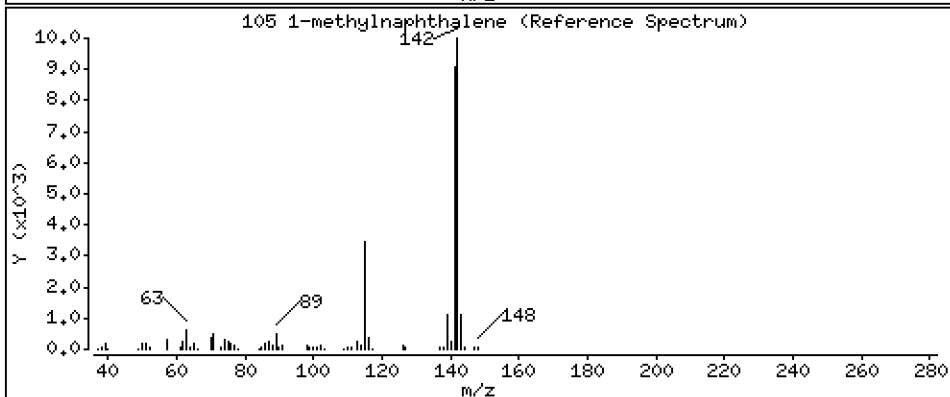
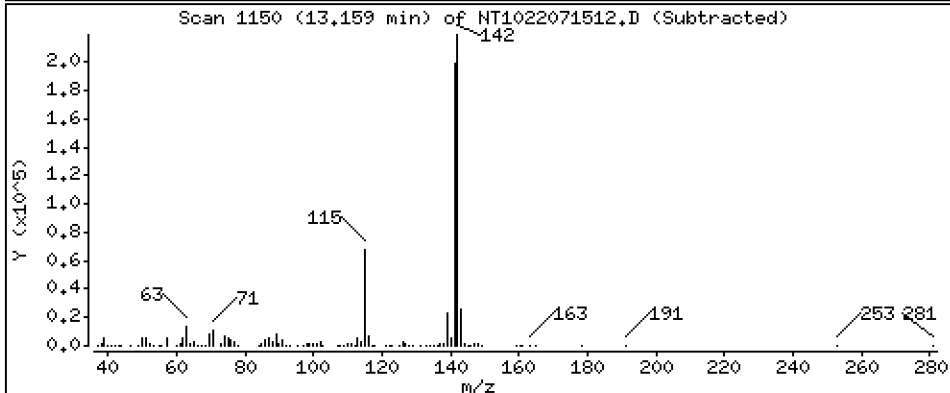
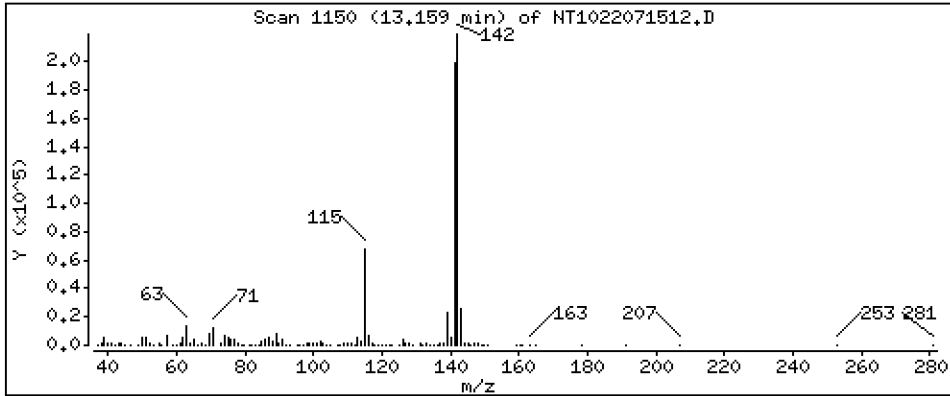
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 15,44 ug/mL



Date : 15-JUL-2022 19:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05,10

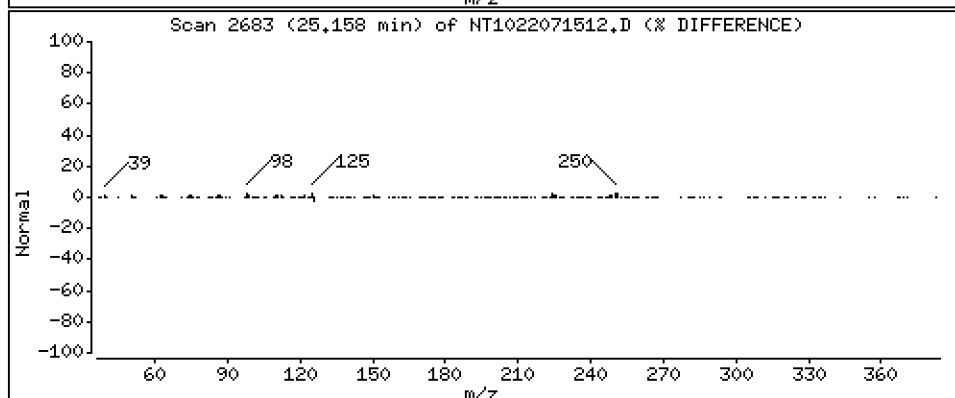
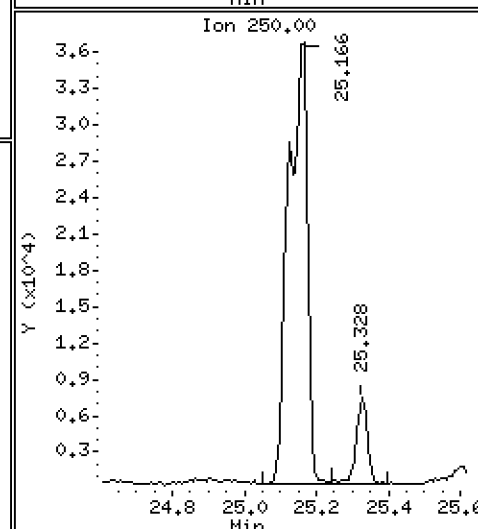
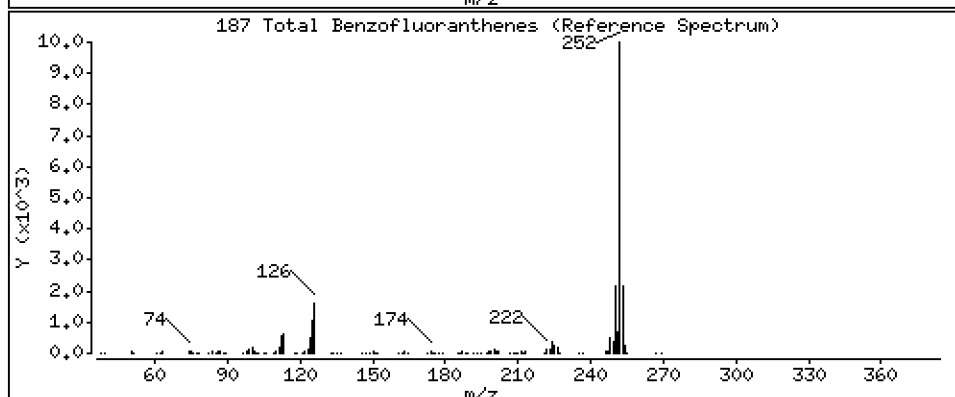
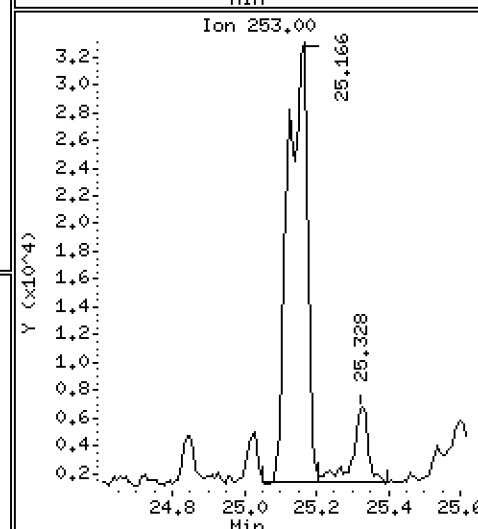
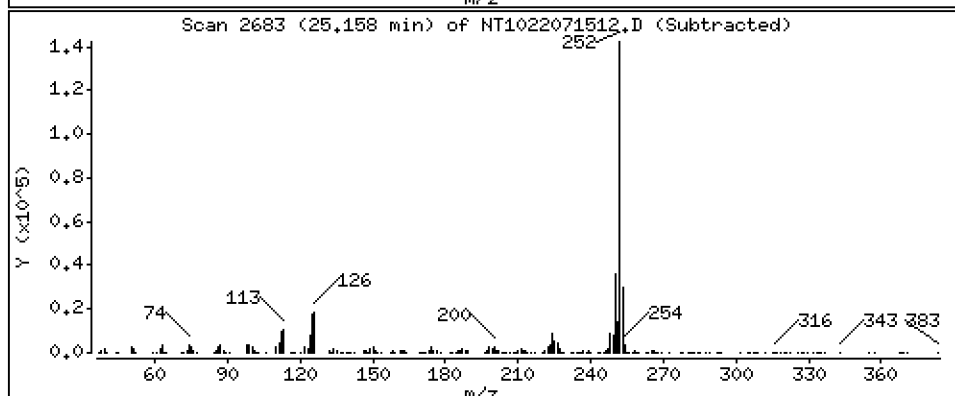
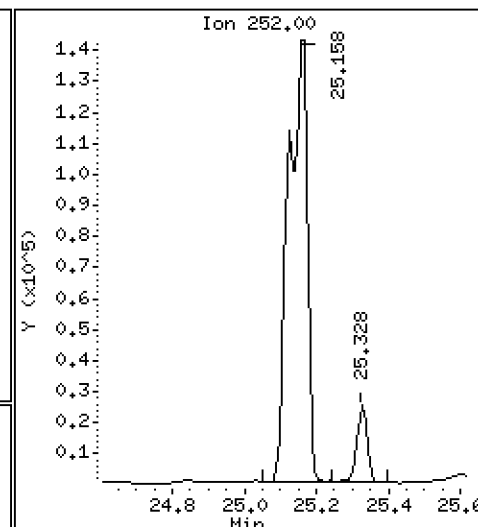
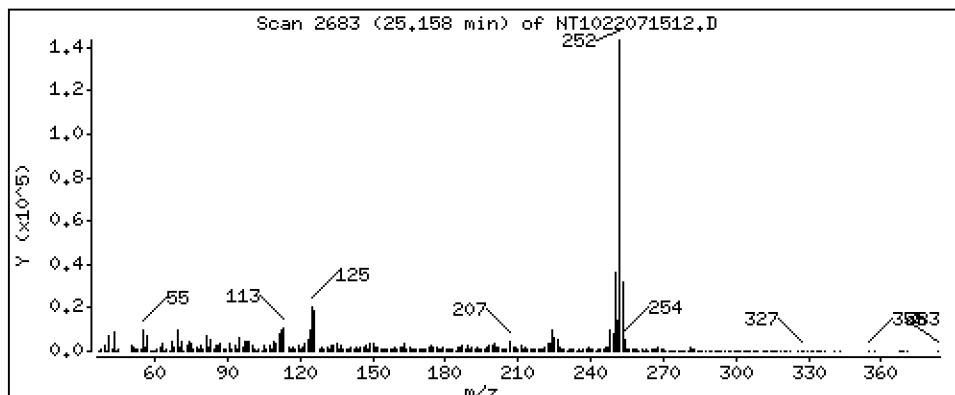
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 135,1 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071512.D
 Lab Smp Id: 22G0019-05
 Inj Date : 15-JUL-2022 19:21
 Operator : VTS
 Smp Info : 22G0019-05,10
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 12
 Dil Factor: 10.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.821	6.806	(0.757)	63287	0.60160	6.016
\$ 2 Phenol-d5	99		8.413	8.398	(0.934)	79606	0.50999	5.100
3 Phenol	94		8.436	8.421	(0.936)	8738	0.06424	0.6424
\$ 5 2-Chlorophenol-d4	132		8.660	8.652	(0.961)	78786	0.73501	7.350
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.008	9.001	(1.000)	288094	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.373	9.366	(1.040)	30038	0.45477	4.548
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.808	9.793	(1.089)	11757	0.13118	1.312
\$ 18 Nitrobenzene-d5	82		10.102	10.095	(0.879)	44766	0.45798	4.580
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.496	11.488	(1.000)	918616	4.00000	
28 Naphthalene	128		11.534	11.535	(1.003)	893228	3.79931	37.99
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		12.934	12.927	(1.125)	511363	2.18851	21.89
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.716	13.716	(0.907)	107675	0.56992	5.699
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152		14.799	14.800	(0.979)	67537	0.27673	2.767
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.117	15.109	(1.000)	417500	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.186	15.179	(1.005)	1585776	13.0602	130.6
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.511	15.511	(1.026)	241966	1.25394	12.54
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		16.230	16.223	(1.074)	1421424	6.16476	61.65
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198		16.754	16.431	(0.922)	80	0.00412	0.04123
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.770	16.762	(1.109)	8987	0.47739	4.774
56 4-Bromophenyl-phenylether	248		17.448	17.217	(0.960)	70	0.00194	0.01942
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.168	18.161	(1.000)	494652	4.00000	
60 Phenanthrene	178		18.230	18.207	(1.003)	8571451	65.9573	659.6
61 Anthracene	178		18.315	18.300	(1.008)	1546132	11.1644	111.6
62 Carbazole	167		18.648	18.641	(1.026)	266670	2.08724	20.87
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.629	20.606	(0.887)	3485300	30.1630	301.6
65 Pyrene	202		21.054	21.031	(0.905)	4141763	30.4812	304.8
\$ 66 Terphenyl-d14	244		21.333	21.326	(0.917)	22597	0.59257	5.926
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.222	23.215	(0.999)	566338	12.2307	122.3
* 69 Chrysene-d12	240		23.253	23.246	(1.000)	109275	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.300	23.292	(1.002)	548763	14.6495	146.5
72 bis(2-Ethylhexyl)phthalate	149							
* 134 Di-n-octylphthalate-d4	153		24.306	24.306	(1.000)	204029	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.127	25.112	(0.970)	250204	6.14571	61.46
75 Benzo(k)fluoranthene	252		25.158	25.158	(0.972)	307351	7.85101	78.51
76 Benzo(a)pyrene	252		25.785	25.762	(0.996)	371436	11.1474	111.5
* 77 Perylene-d12	264		25.893	25.878	(1.000)	89895	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.559	28.544	(1.103)	176098	4.94981	49.50
79 Dibenzo(a,h)anthracene	278		28.559	28.560	(1.103)	57053	2.09482	20.95
80 Benzo(g,h,i)perylene	276		29.351	29.329	(1.134)	180046	6.33098	63.31
90 N-Nitrosodimethylamine	74		4.936	4.628	(0.548)	594	0.00863	0.08630
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.159	13.151	(1.145)	354517	1.54434	15.44
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.158	25.112	(0.972)	512692	13.5063	135.1	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071512.D Calibration Time: 12:41
 Lab Smp Id: 22G0019-05
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	288094	42.95
27 Naphthalene-d8	649654	324827	1299308	918616	41.40
42 Acenaphthene-d10	370460	185230	740920	417500	12.70
59 Phenanthrene-d10	647298	323649	1294596	494652	-23.58
69 Chrysene-d12	221116	110558	442232	109275	-50.58
134 Di-n-octylphthala	319144	159572	638288	204029	-36.07
77 Perylene-d12	105234	52617	210468	89895	-14.58

<-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.01	0.08
27 Naphthalene-d8	11.49	10.99	11.99	11.50	0.06
42 Acenaphthene-d10	15.11	14.61	15.61	15.12	0.05
59 Phenanthrene-d10	18.16	17.66	18.66	18.17	0.04
69 Chrysene-d12	23.25	22.75	23.75	23.25	0.03
134 Di-n-octylphthala	24.31	23.81	24.81	24.31	-0.00
77 Perylene-d12	25.88	25.38	26.38	25.89	0.06

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

REVIEW SUMMARY FOR FILE - NT1022071512.D

Lab ID: 22G0019-05
nt10.i, ABN.m, 15-JUL-2022 19:21

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.922	0.905	0.0174	4,6-Dinitro-2-methylphenol
0.960	0.948	0.0123	4-Bromophenyl-phenylether
0.548	0.514	0.0338	N-Nitrosodimethylamine

RRT check based on Ccal File: NT1022071502.D

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

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



Form I
ORGANIC ANALYSIS DATA SHEET

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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-05RE1 A

SDG: 22G0019

Sampled: 06/28/22 10:45

Prepared: 07/07/22 10:01

File ID: NT1022071520.D

% Solids: 55.25

Preparation: EPA 3546 (Microwave)

Analyzed: 07/16/22 00:32

Batch: BKG0069

Sequence: SKG0154

Initial/Final: 18.18 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	100	3870	D	422	1990
91-57-6	2-Methylnaphthalene	100	2160	D	449	1990
83-32-9	Acenaphthene	100	12500	D	520	1990
87-86-5	Pentachlorophenol	100	3110	U	3110	9960
85-01-8	Phenanthrene	100	53900	D	868	1990
206-44-0	Fluoranthene	100	37000	Q, D	606	1990
56-55-3	Benzo(a)anthracene	100	11100	D	593	1990
218-01-9	Chrysene	100	15600	Q, D	603	1990
205-99-2	Benzo(b)fluoranthene	100	6100	D	699	1990
207-08-9	Benzo(k)fluoranthene	100	7660	D	499	1990
50-32-8	Benzo(a)pyrene	100	10400	D	421	1990
193-39-5	Indeno(1,2,3-cd)pyrene	100	4860	D	1460	1990
53-70-3	Dibenzo(a,h)anthracene	100	1720	U	1720	1990
90-12-0	1-Methylnaphthalene	100	1570	J, D	524	1990

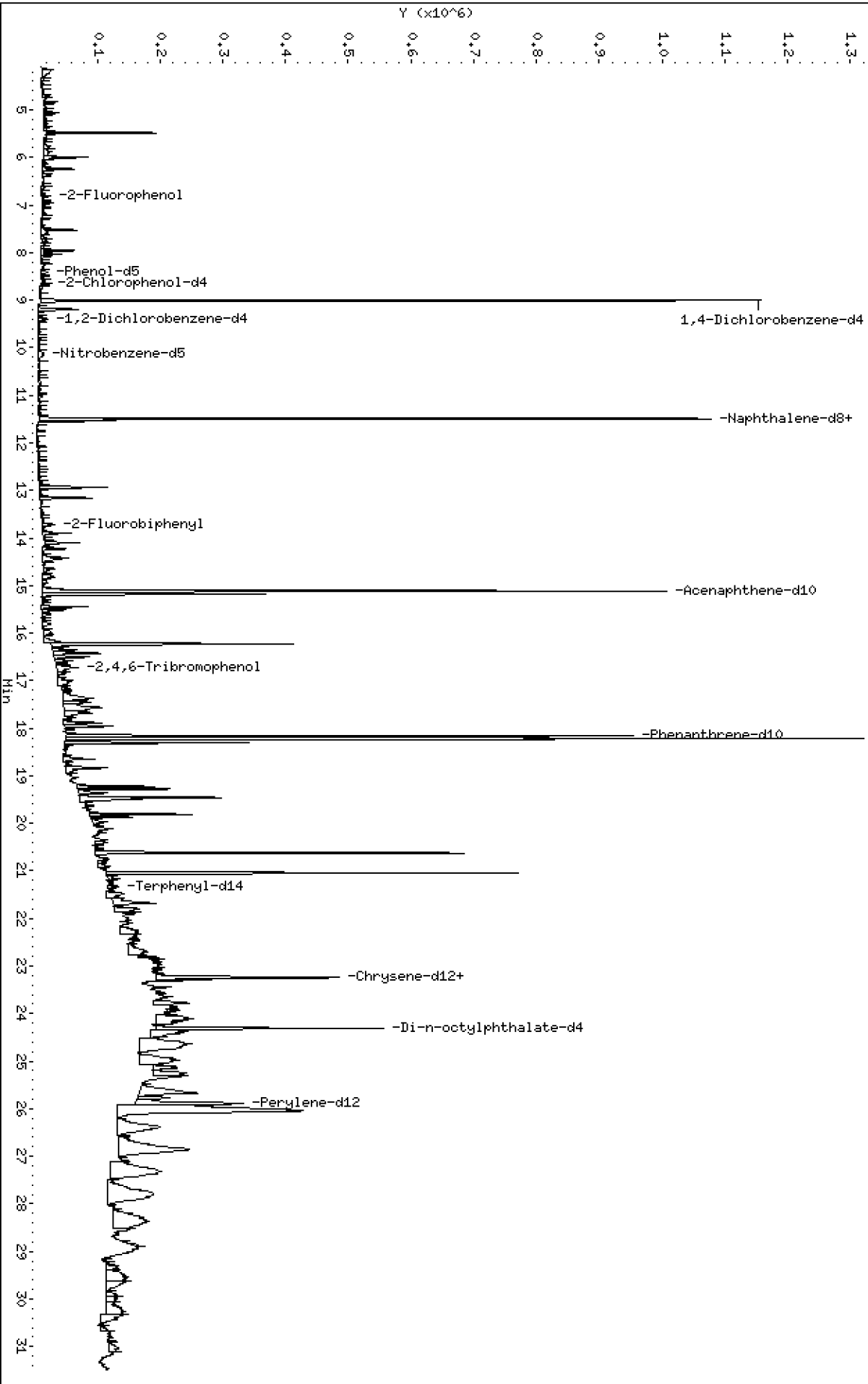
SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	746.68			27 - 120	D1
Phenol-d5	746.68			29 - 120	D1
2-Chlorophenol-d4	746.68			31 - 120	D1
1,2-Dichlorobenzene-d4	497.79			32 - 120	D1
Nitrobenzene-d5	497.79			30 - 120	D1
2-Fluorobiphenyl	497.79			35 - 120	D1
2,4,6-Tribromophenol	746.68			24 - 134	D1
p-Terphenyl-d14	497.79			37 - 120	D1

Data File: \\target\share\chem3\nt10,1\20220715,6\NT1022071520.D
Date: 16-JUL-2022 00:32
Client ID:
Sample Info: 2200019-05REL,100

Column phase: ZB-5msi

Instrument: nt10,1
Operator: VTS
Column diameter: 0,25

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Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

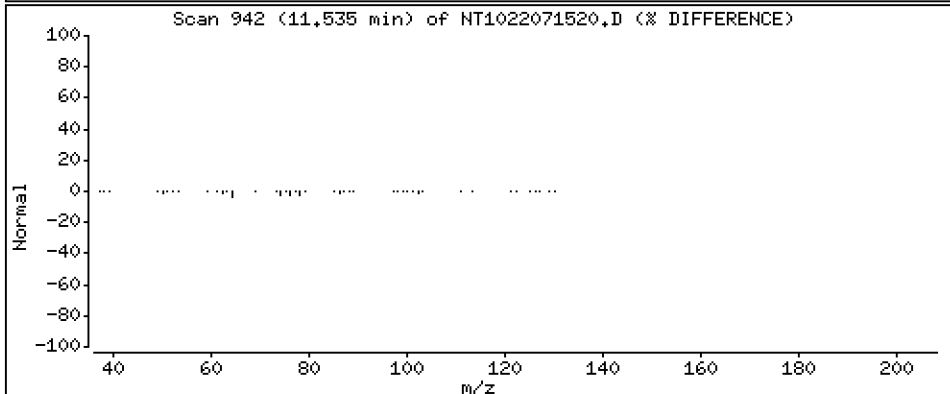
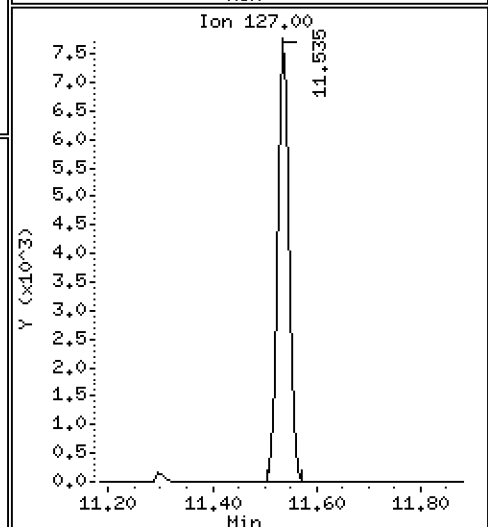
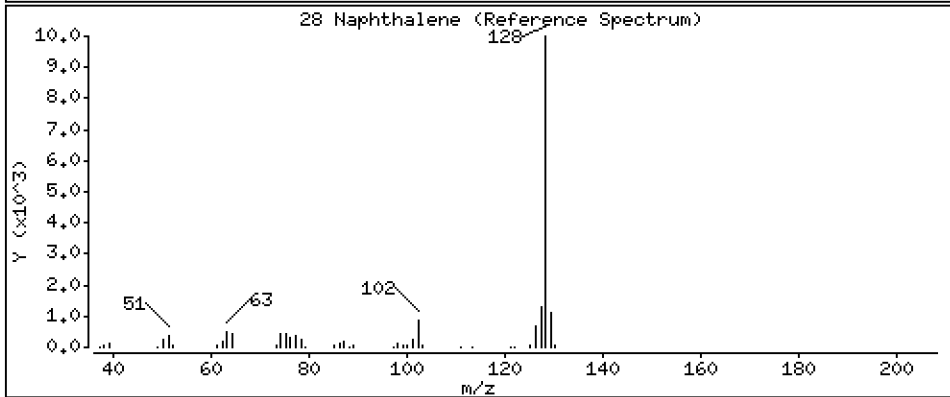
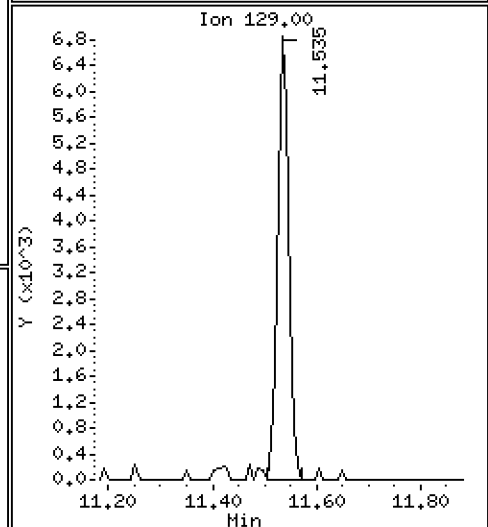
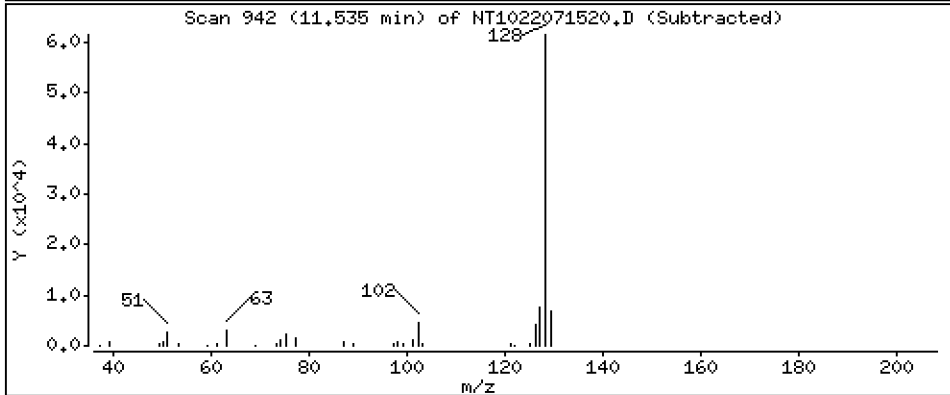
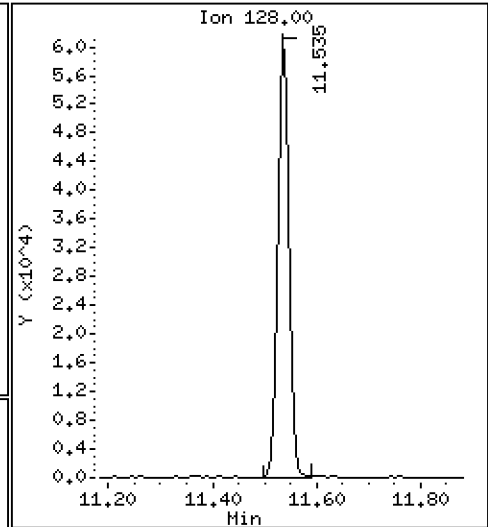
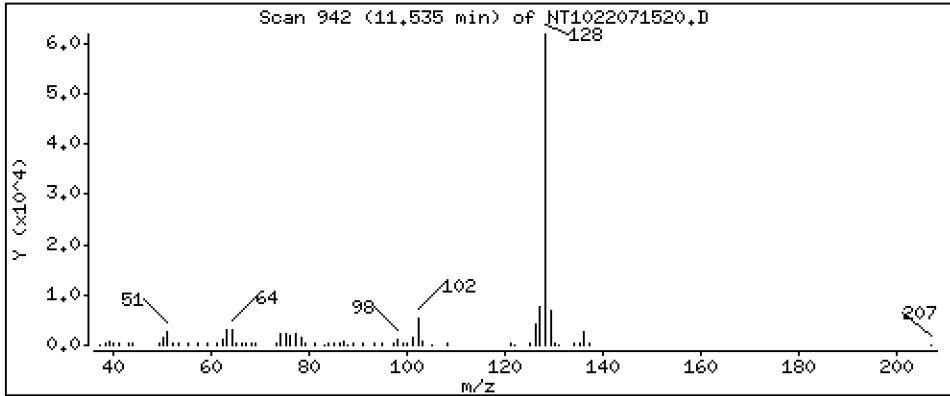
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 38,83 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

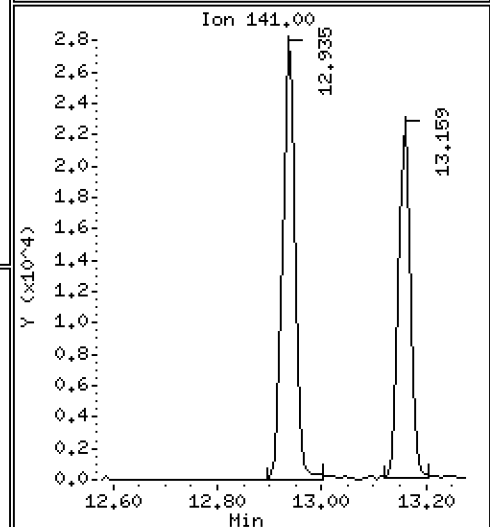
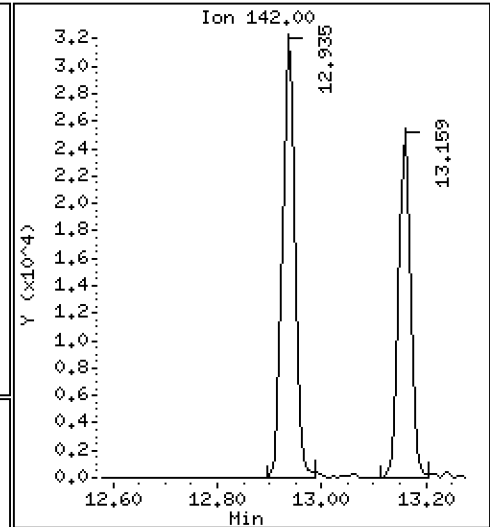
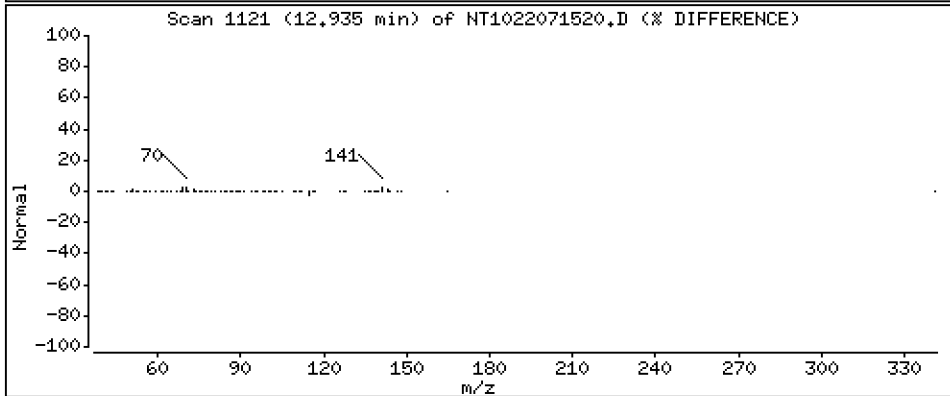
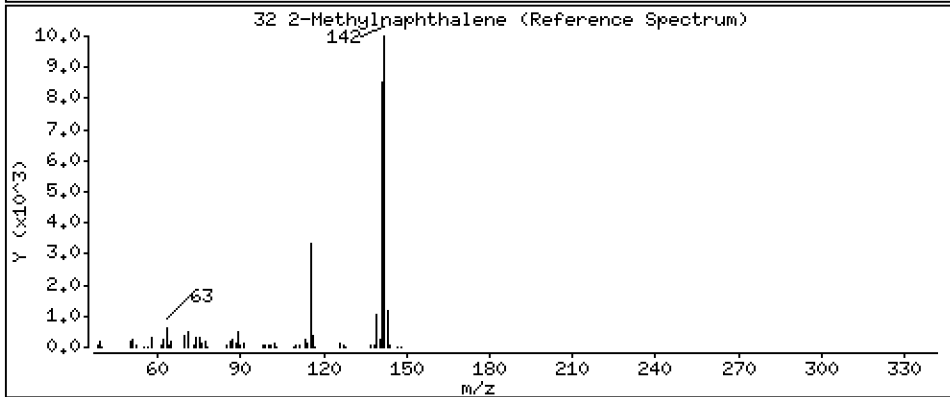
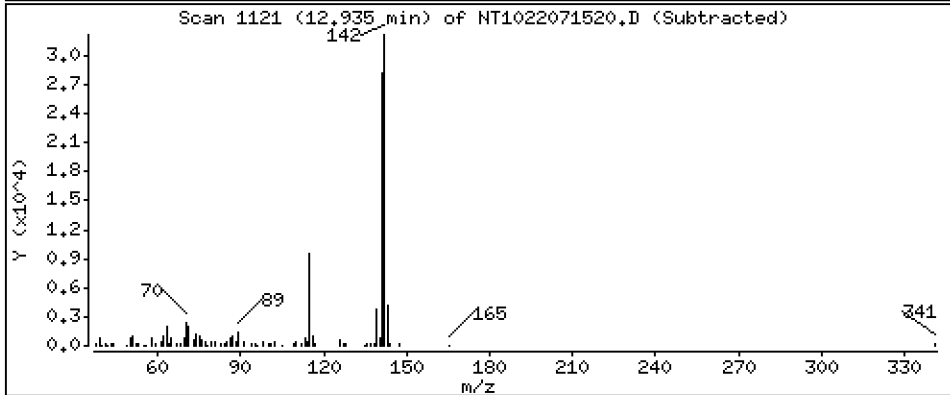
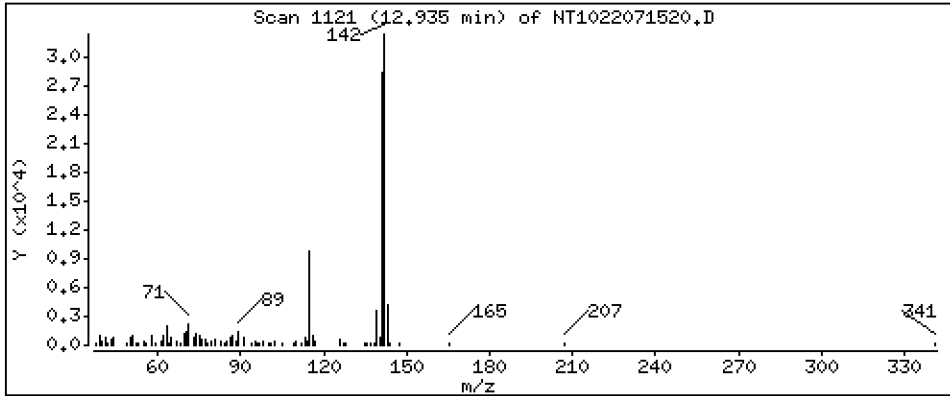
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 21,66 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

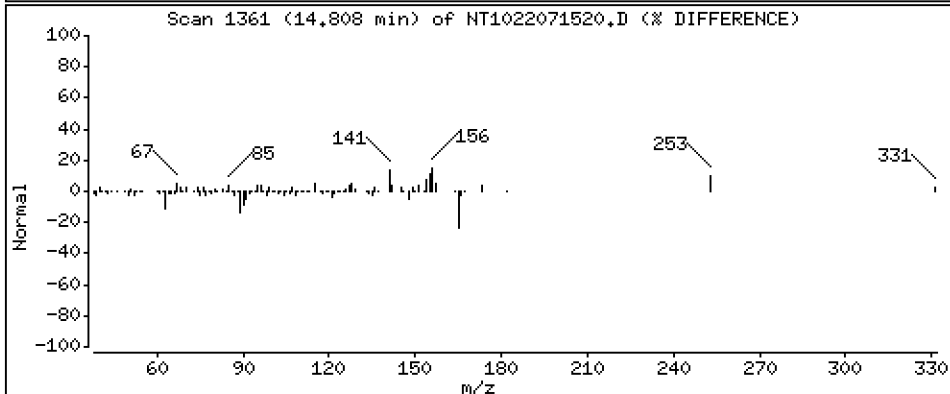
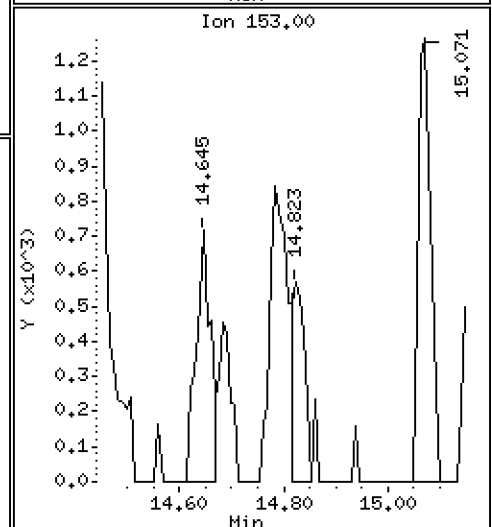
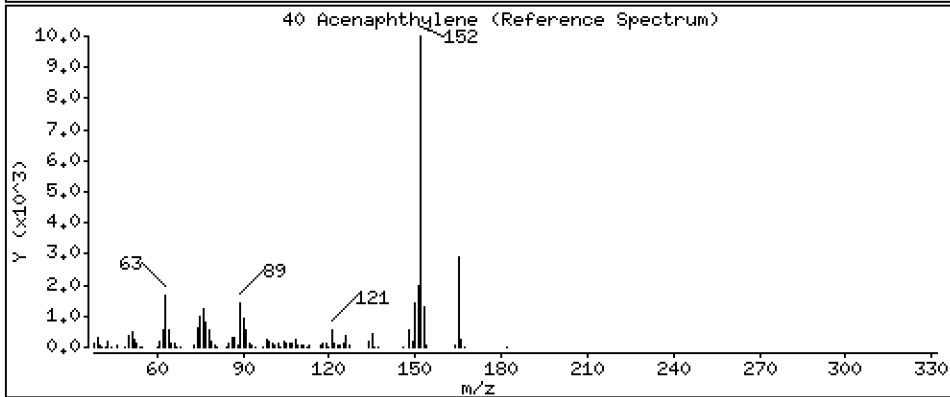
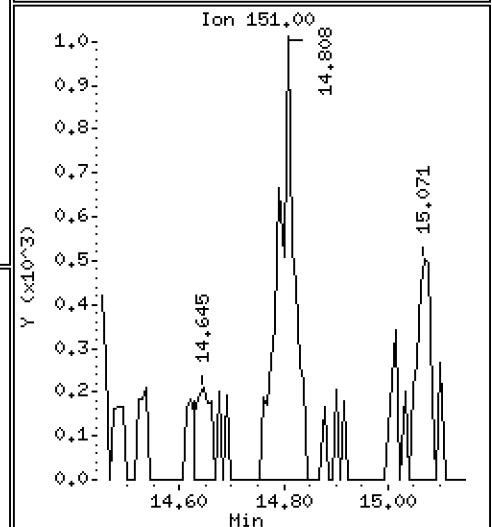
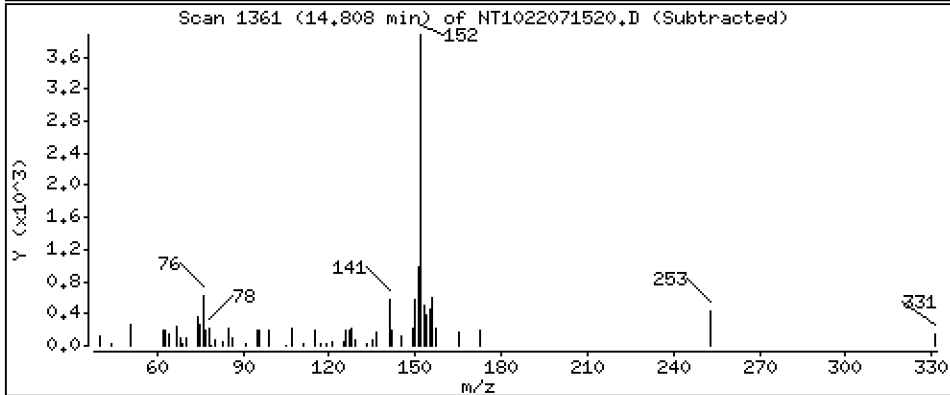
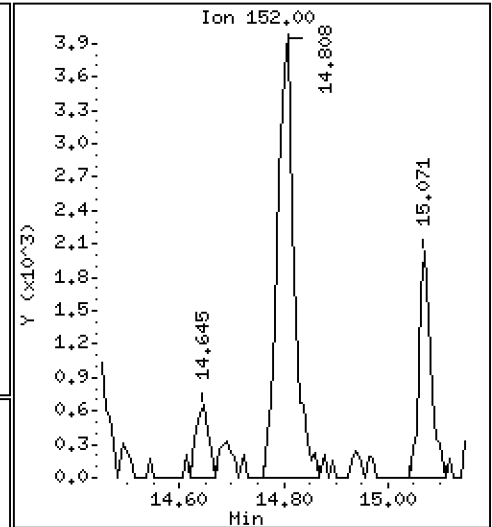
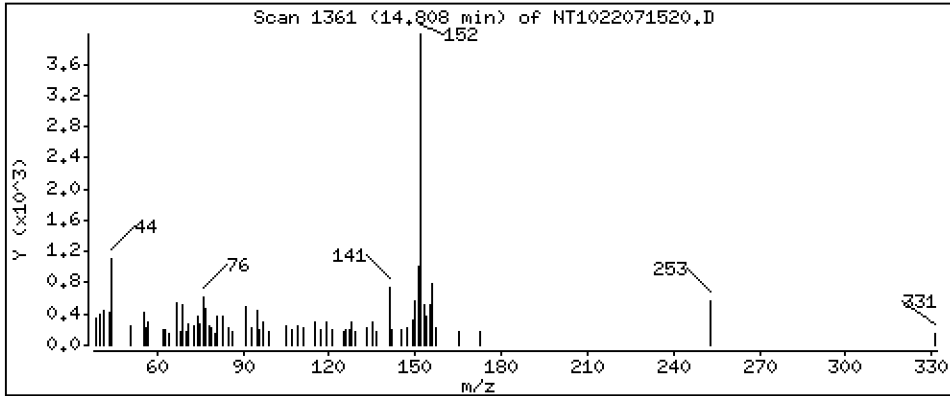
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 3,274 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

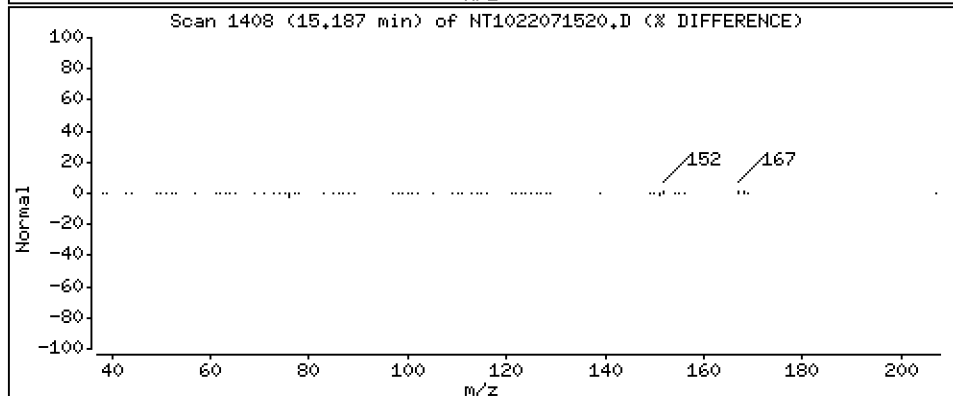
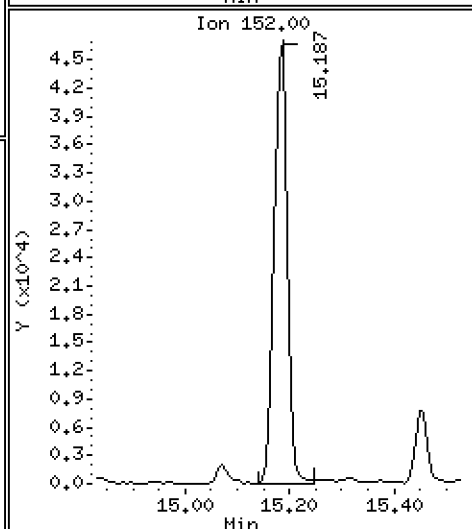
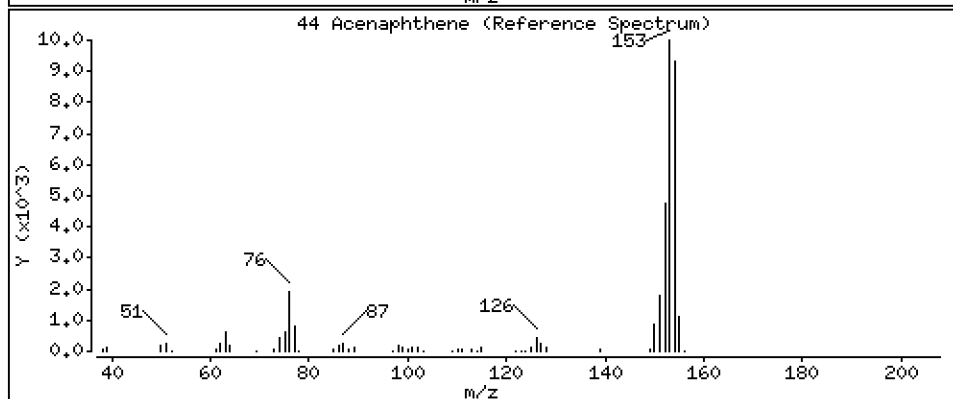
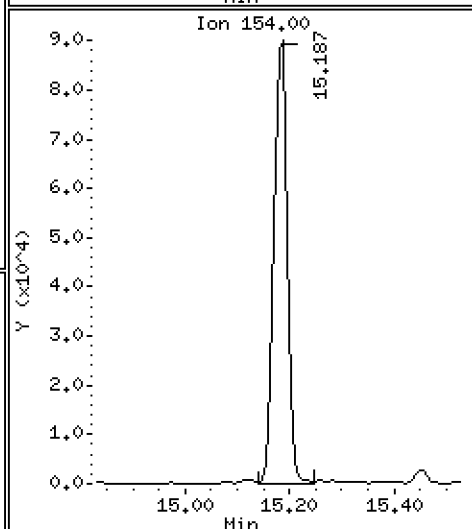
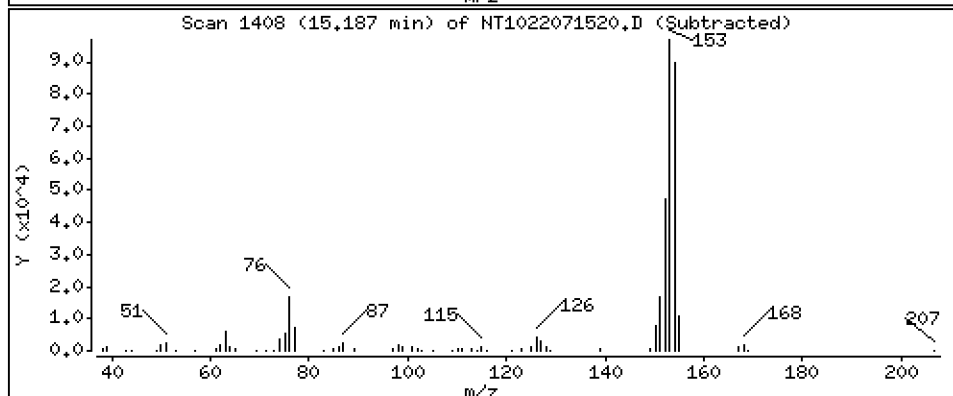
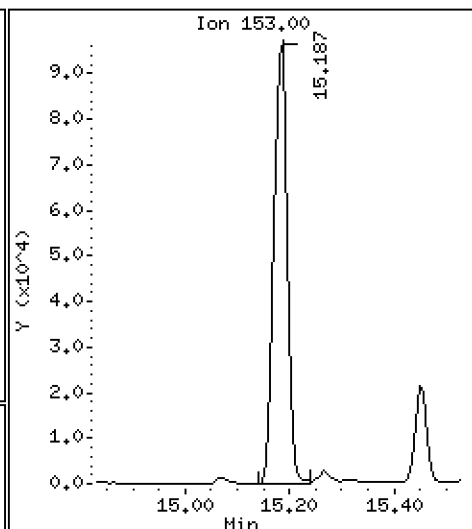
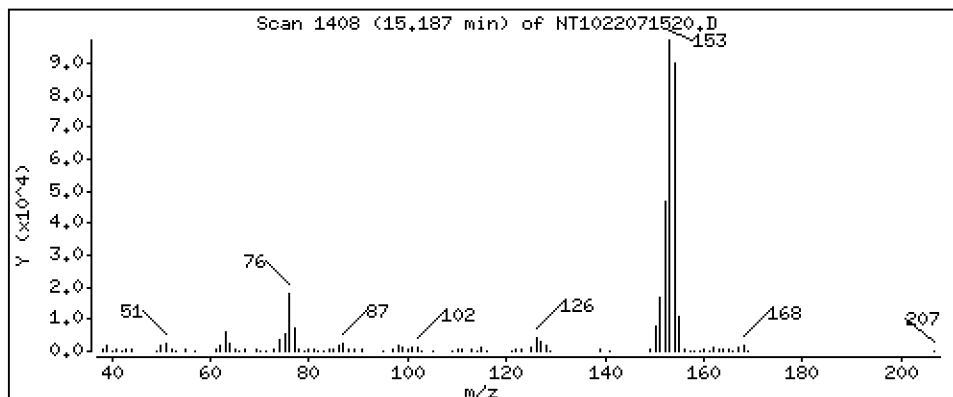
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 125,3 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

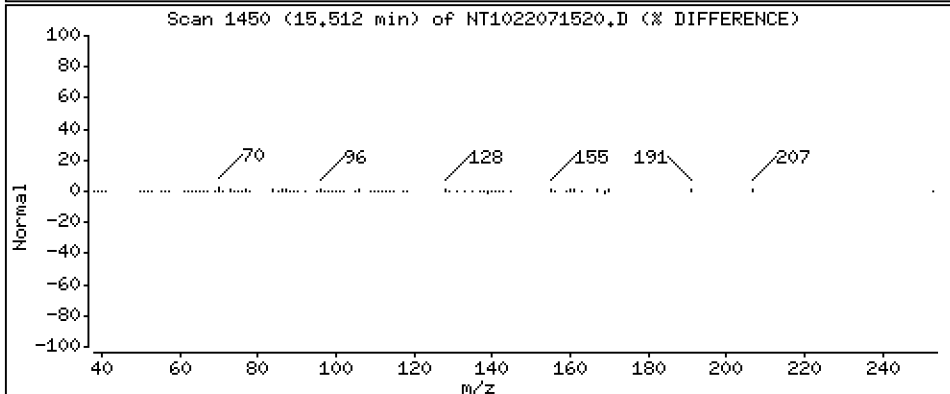
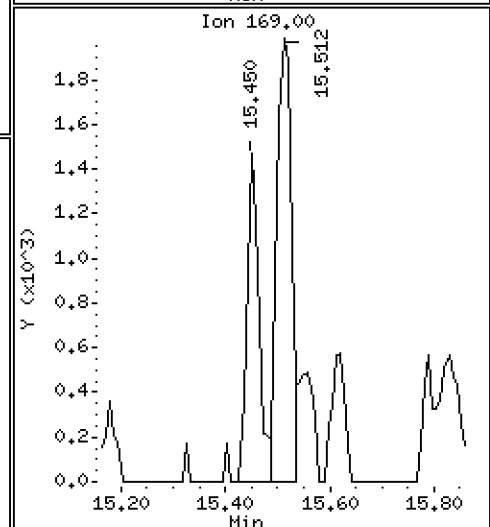
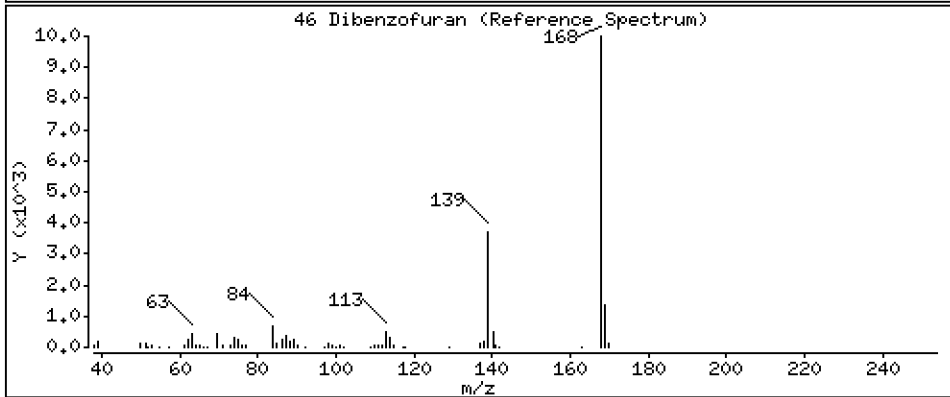
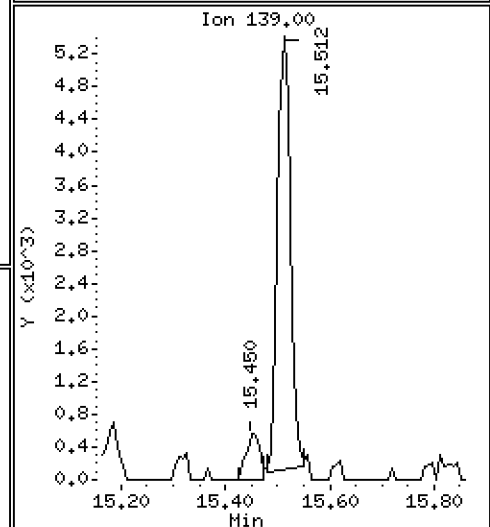
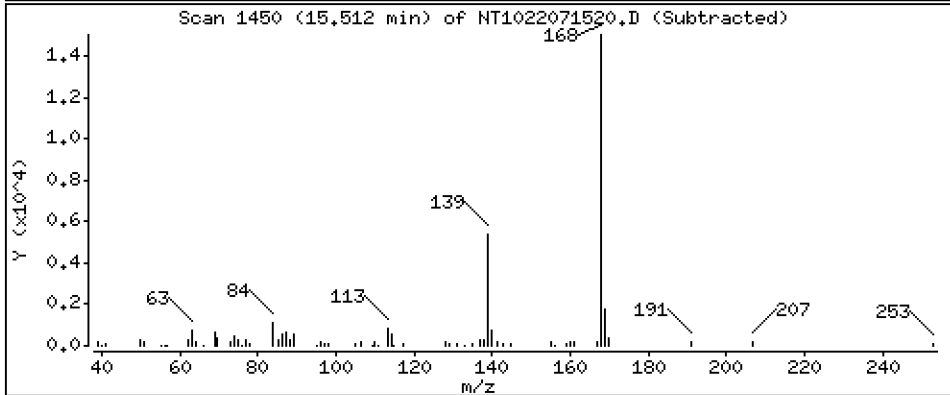
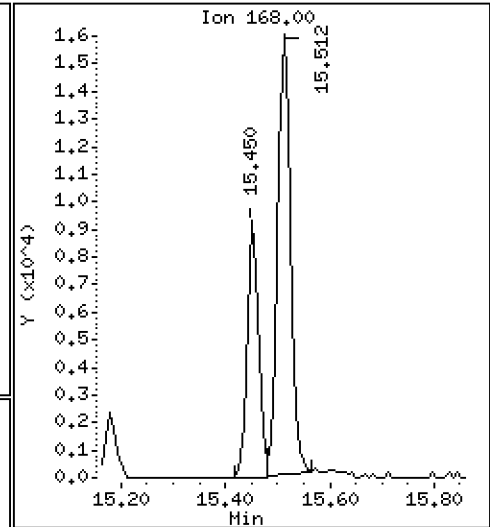
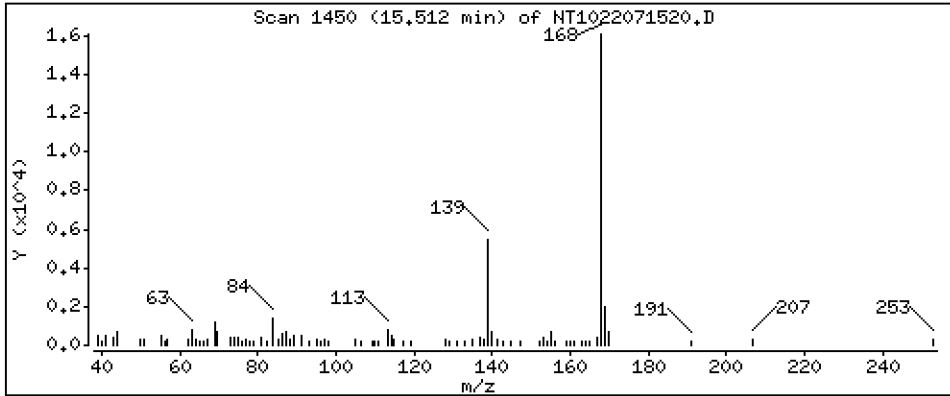
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 12,41 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

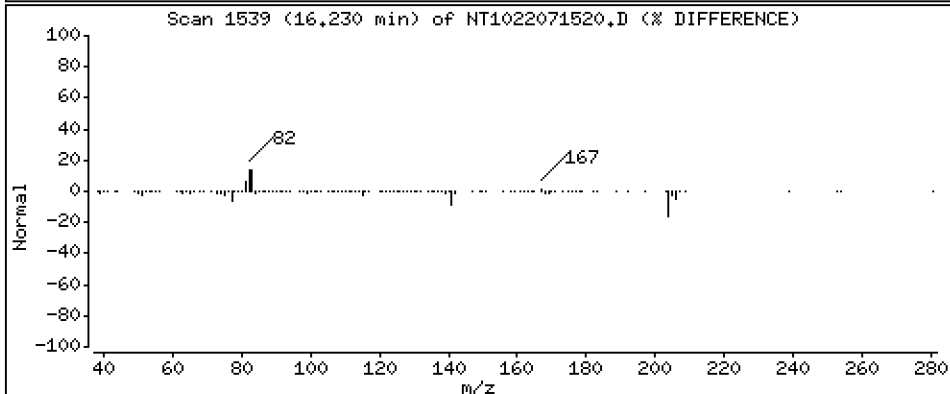
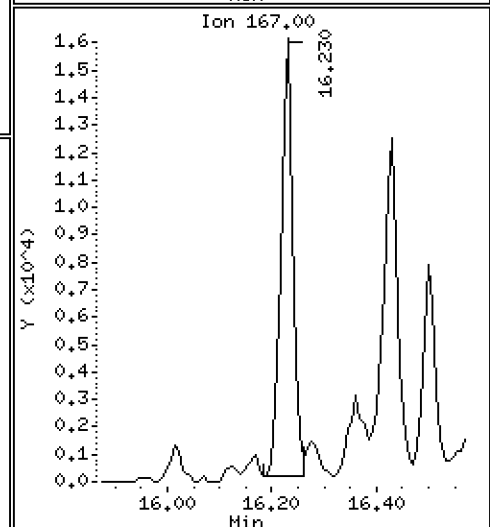
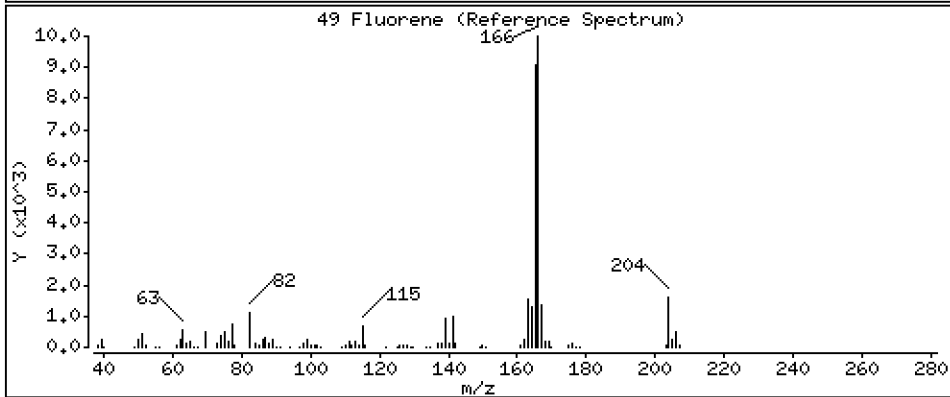
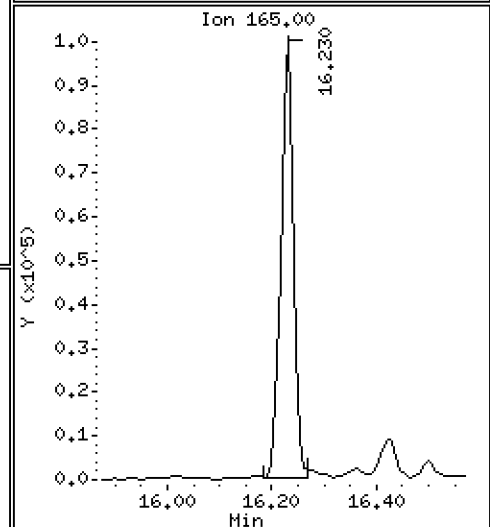
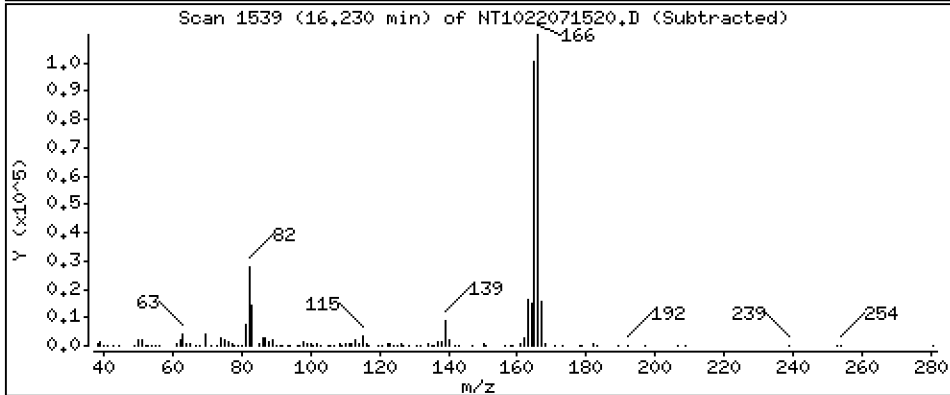
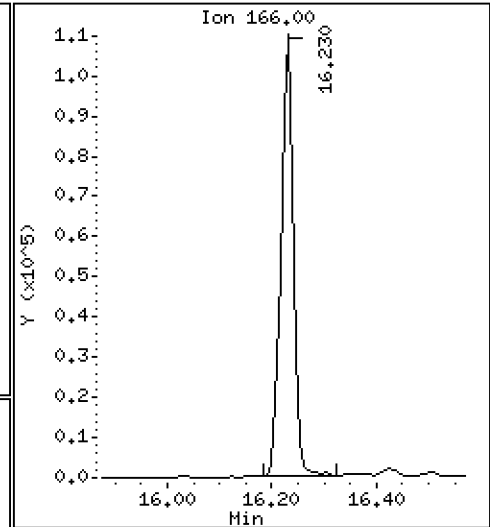
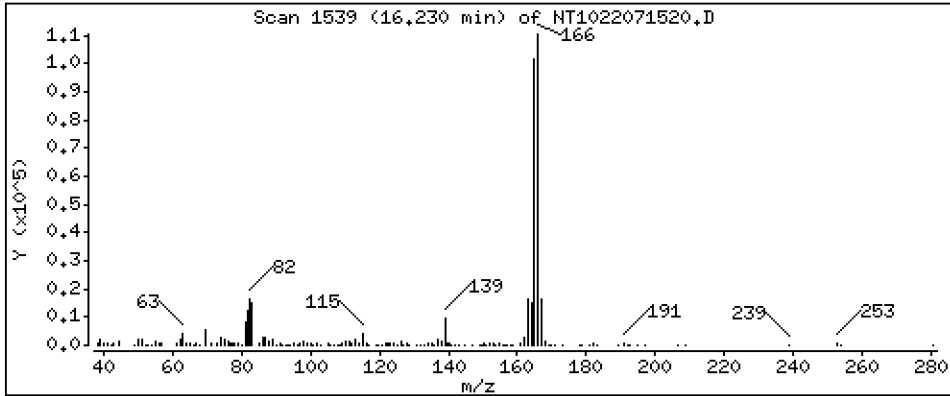
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 73,06 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05RE1,100

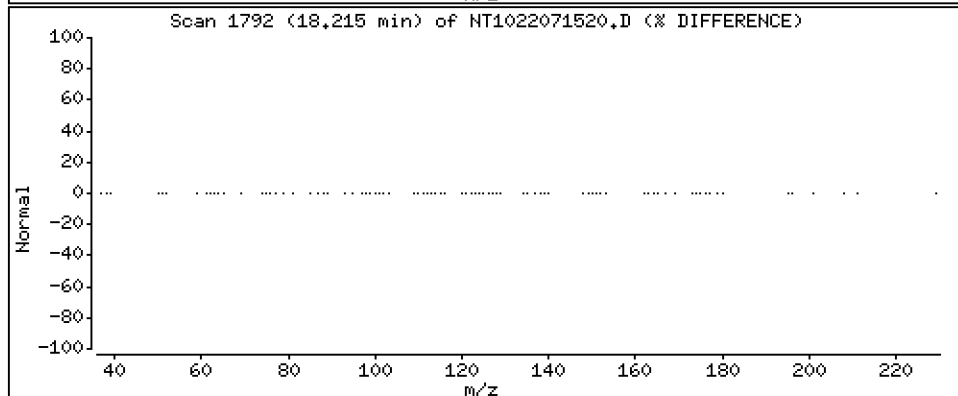
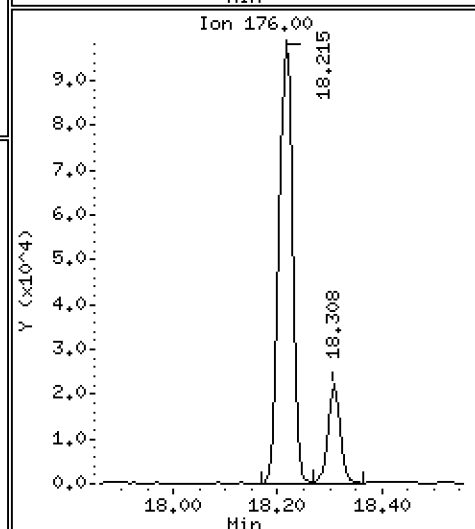
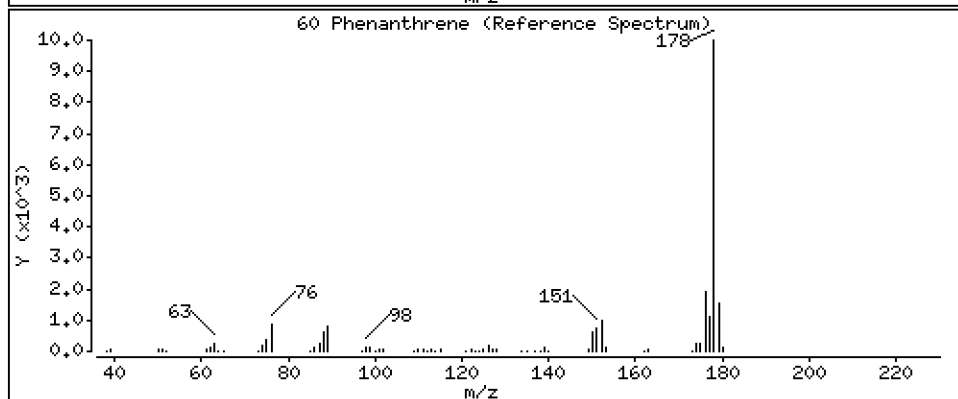
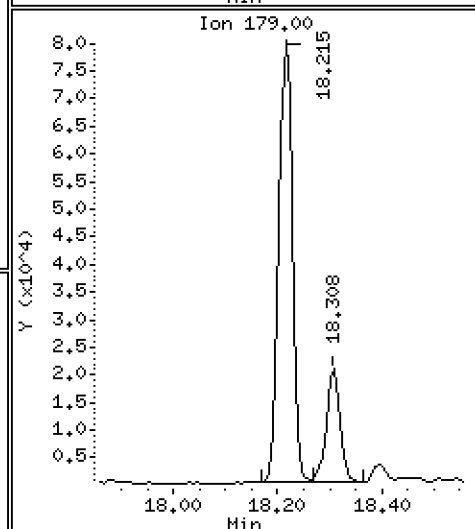
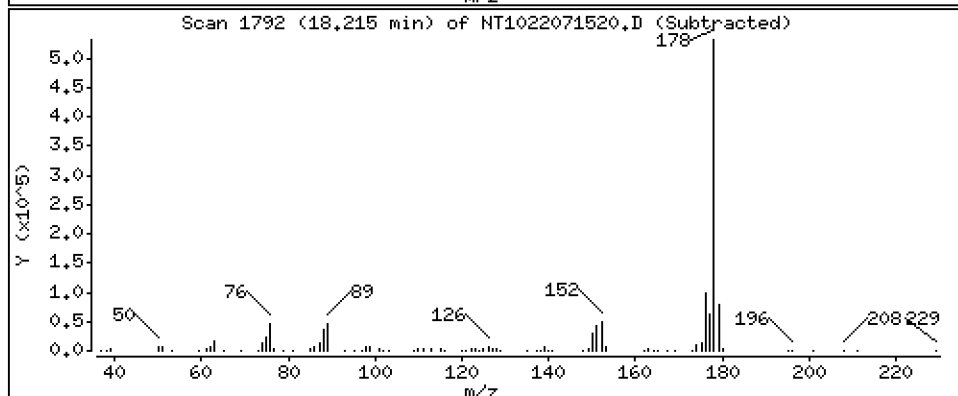
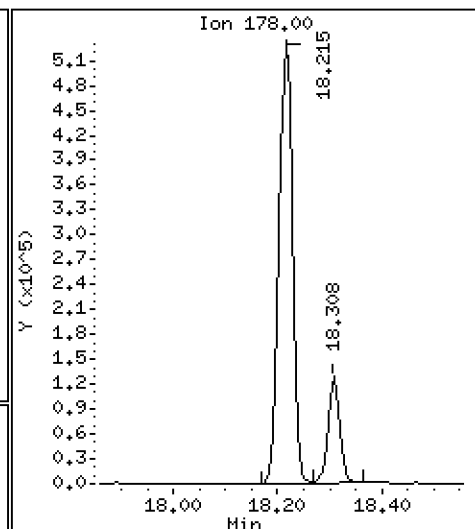
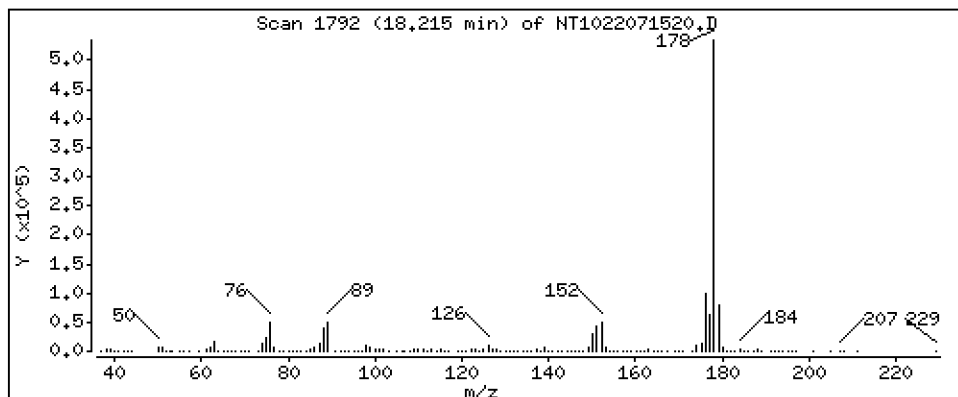
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 541,3 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

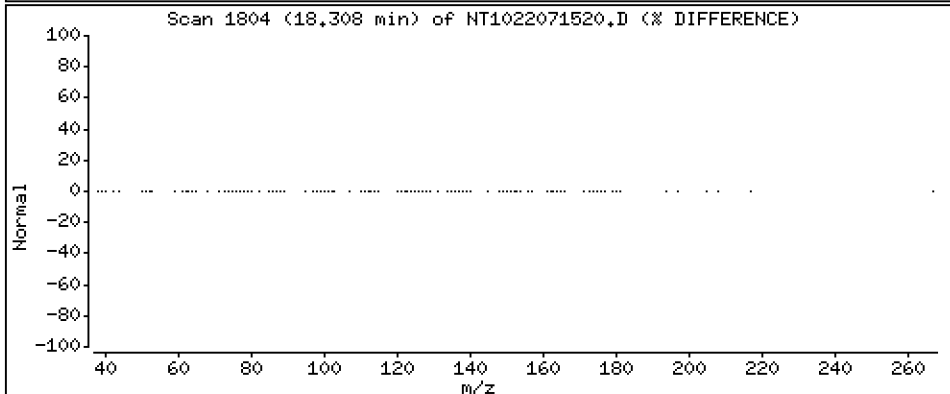
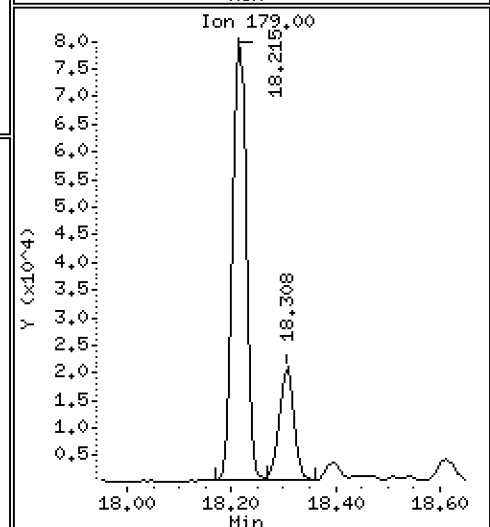
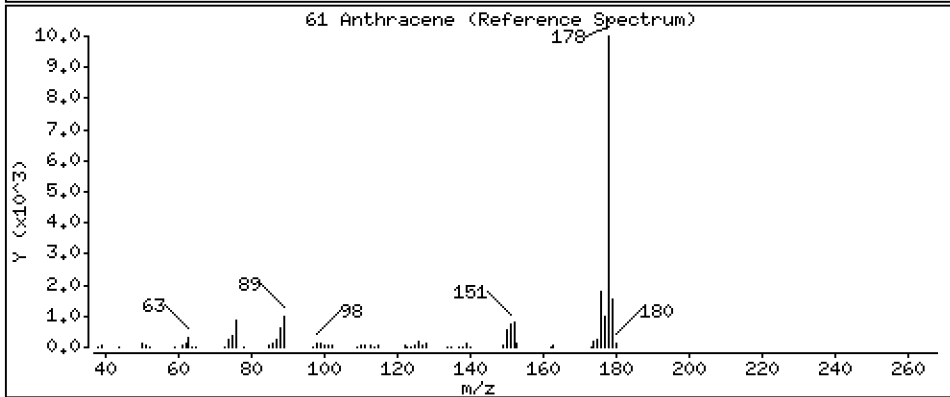
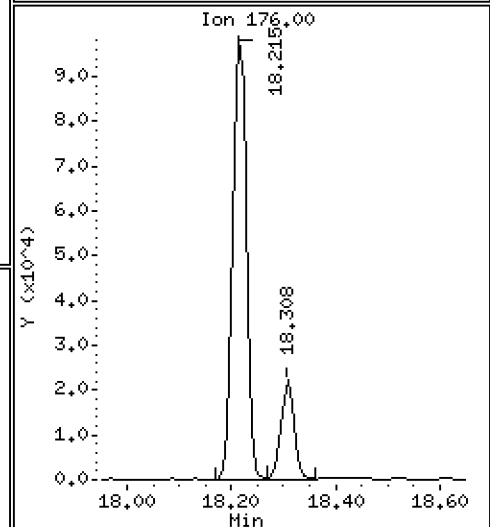
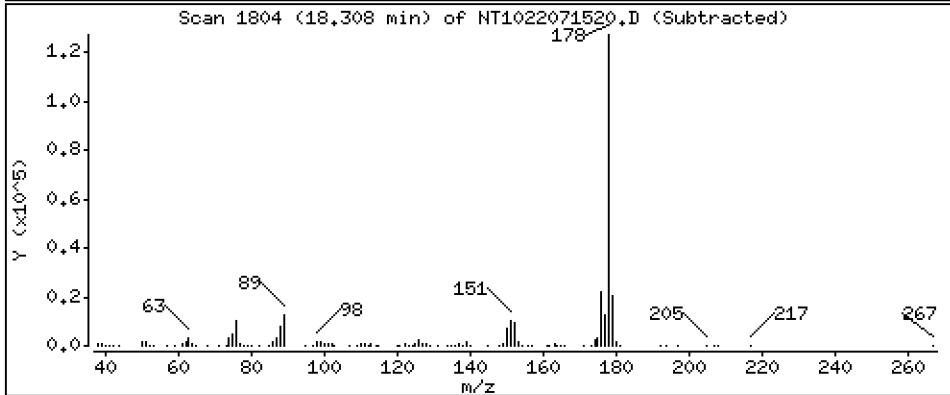
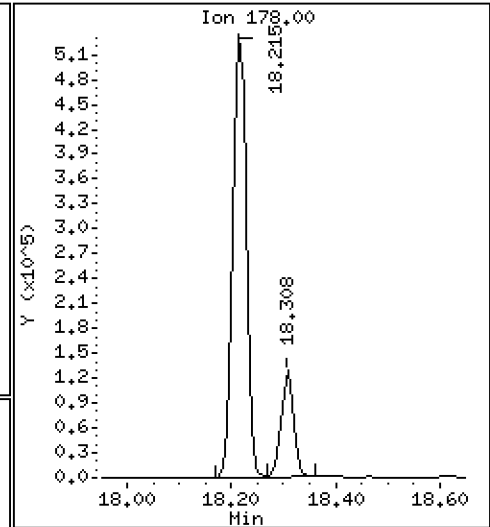
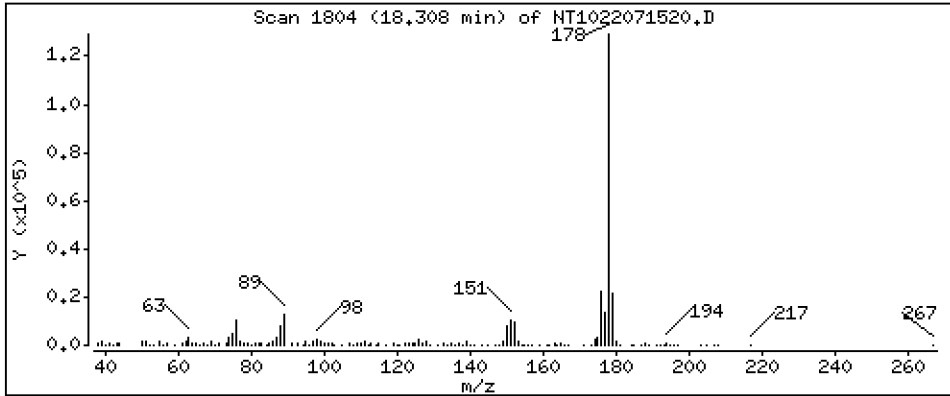
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 114,6 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

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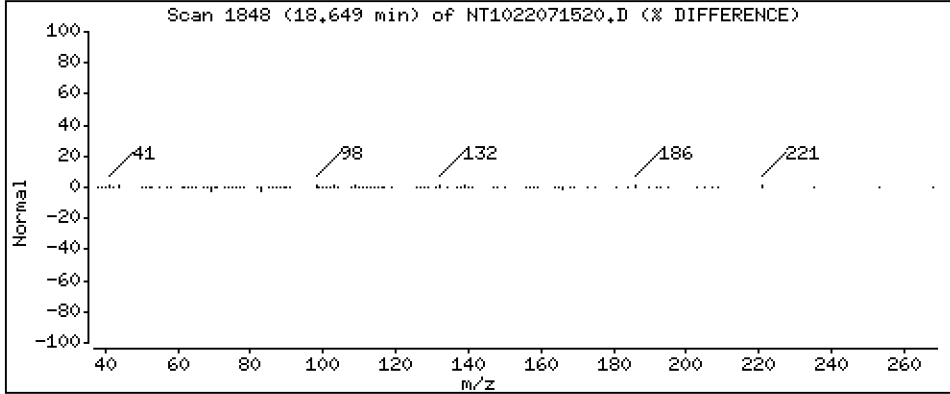
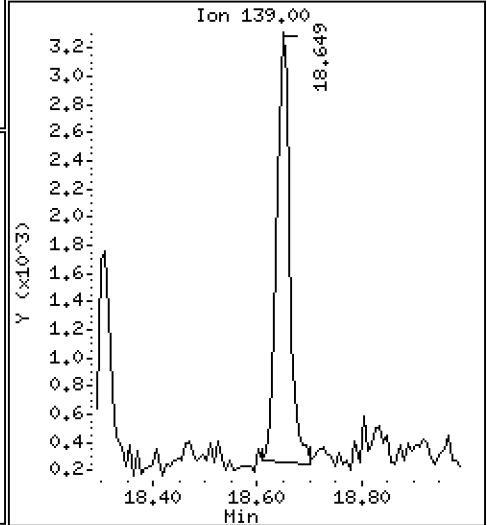
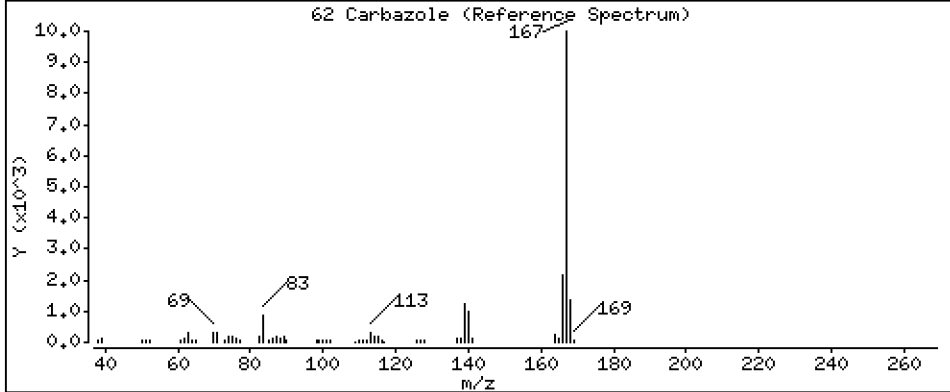
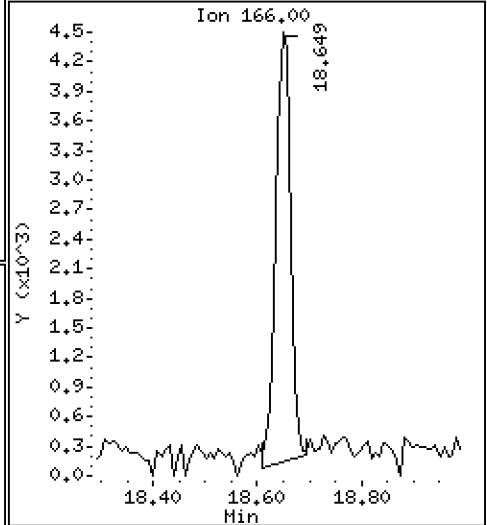
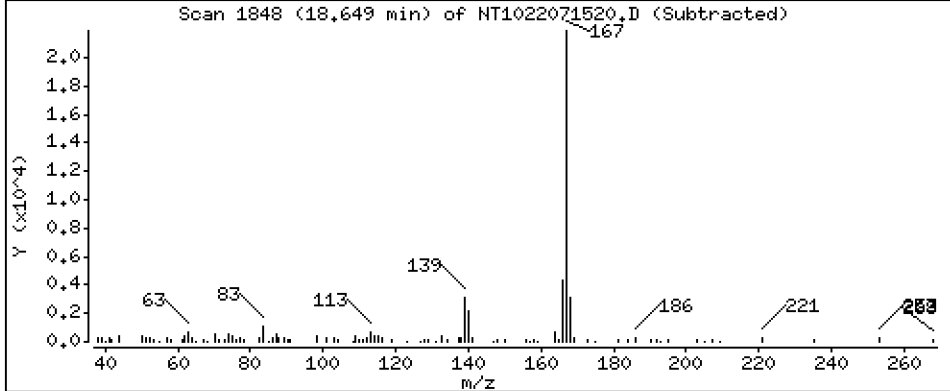
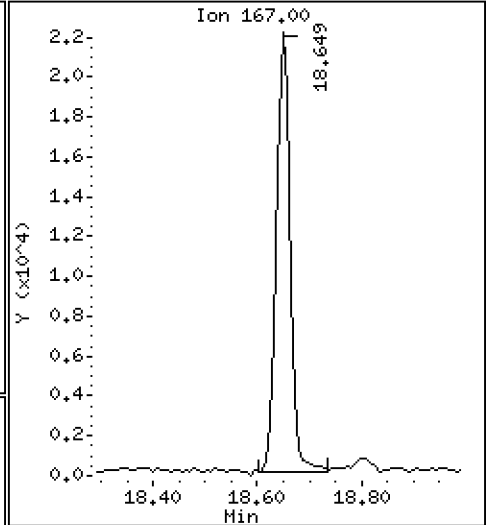
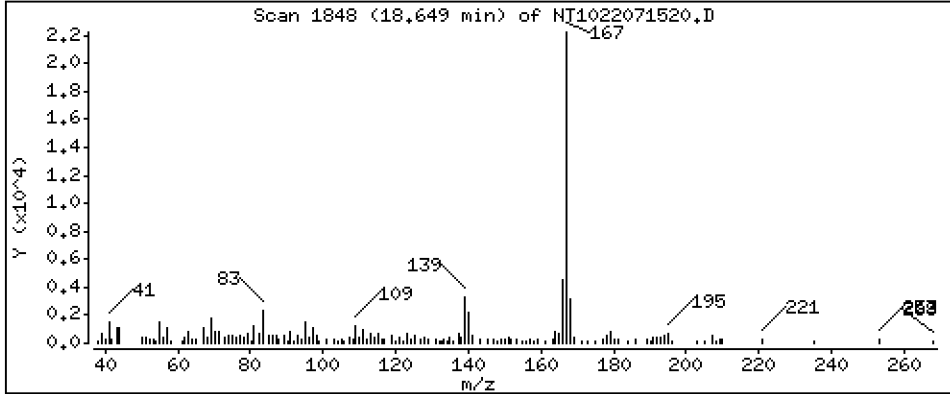
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 23,09 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

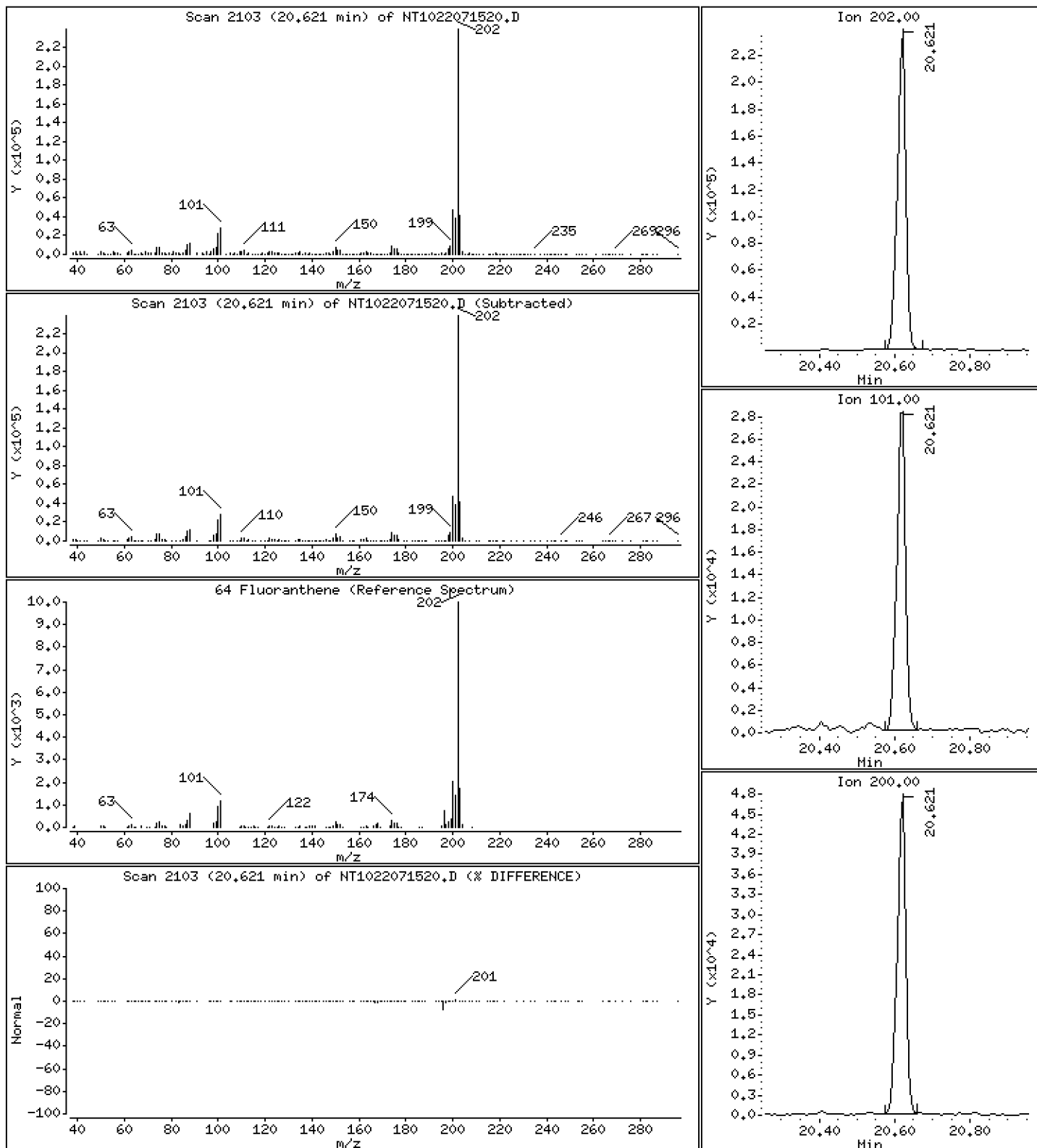
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 371,3 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05RE1,100

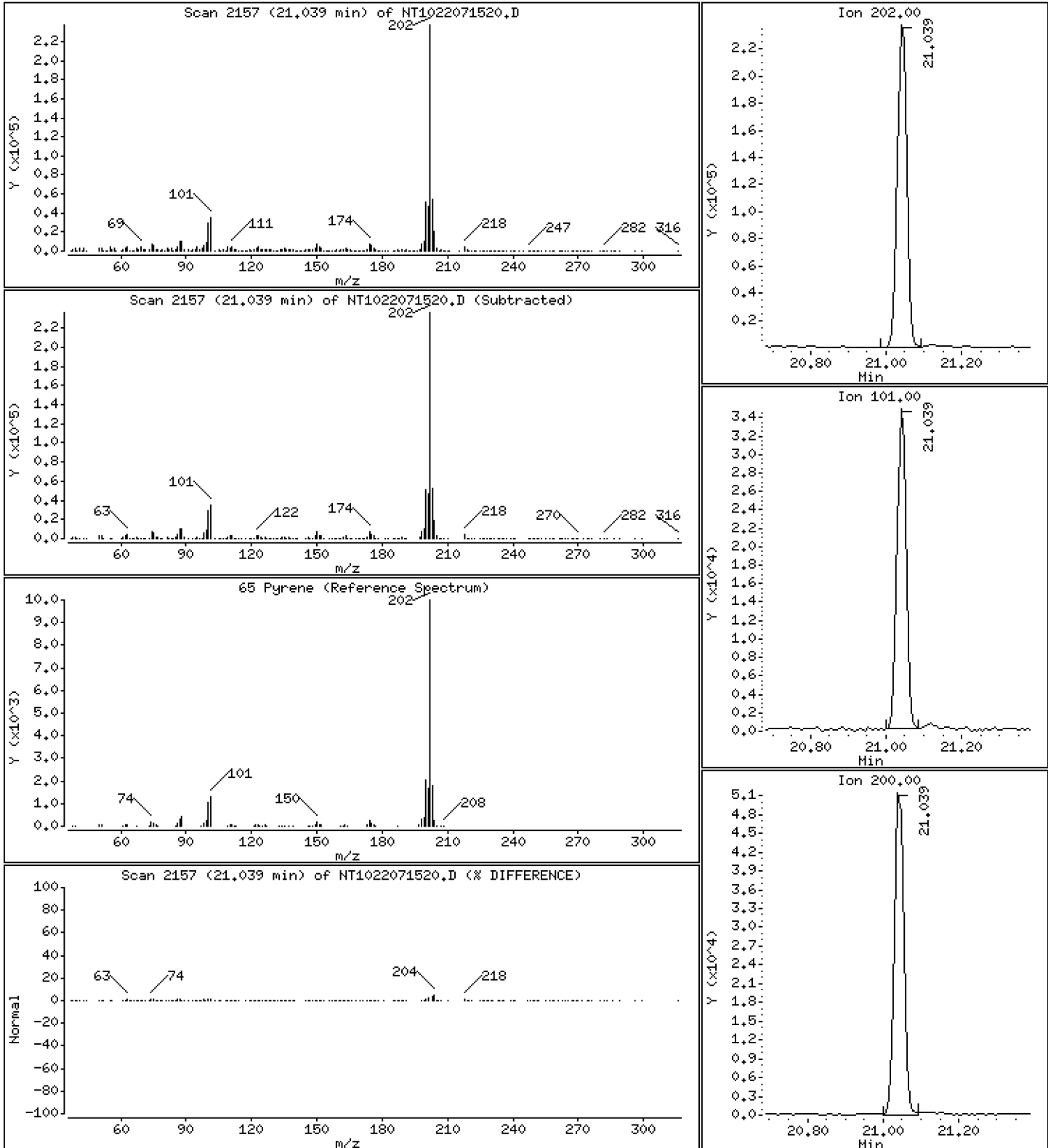
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 451,0 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 2200019-05RE1,100

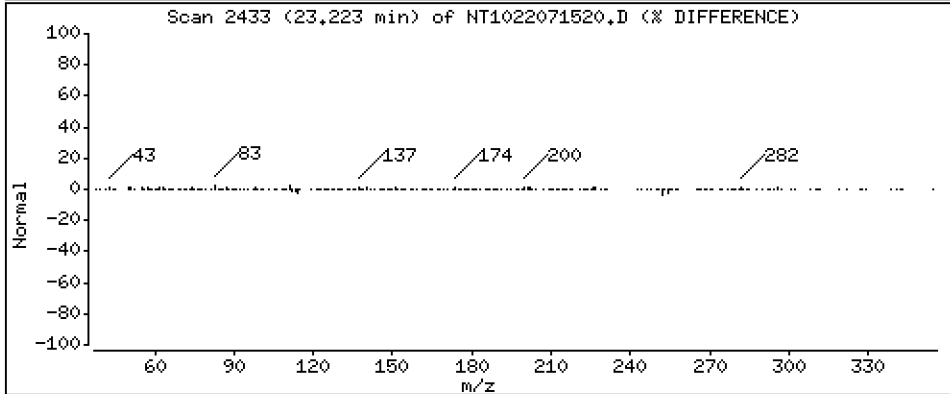
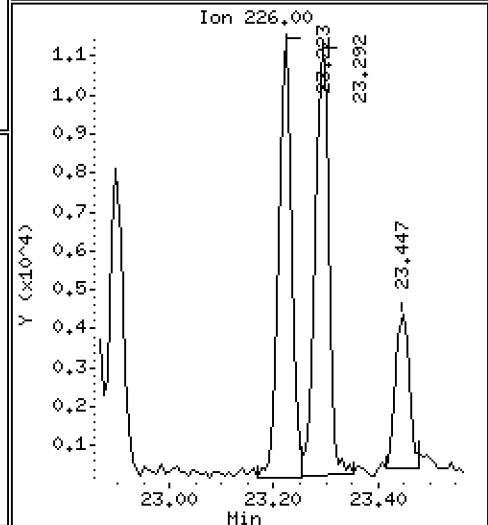
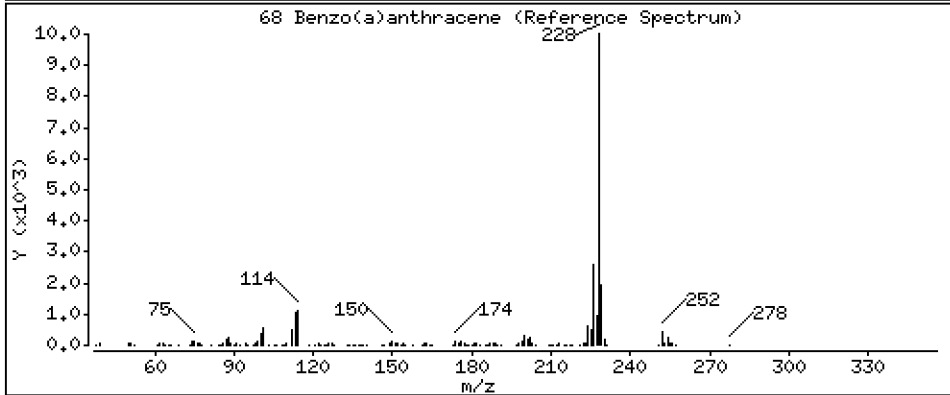
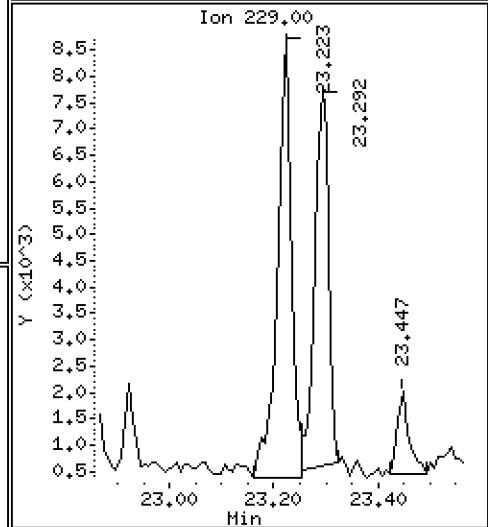
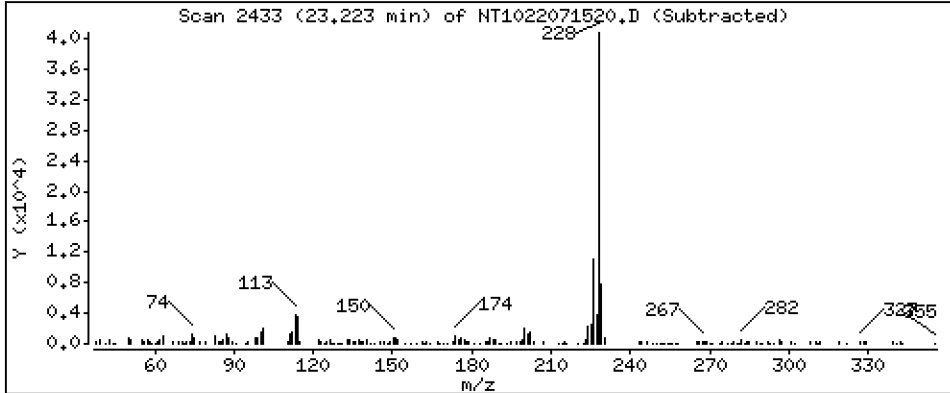
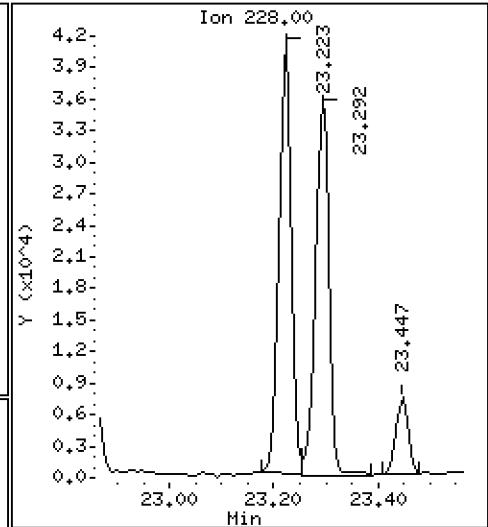
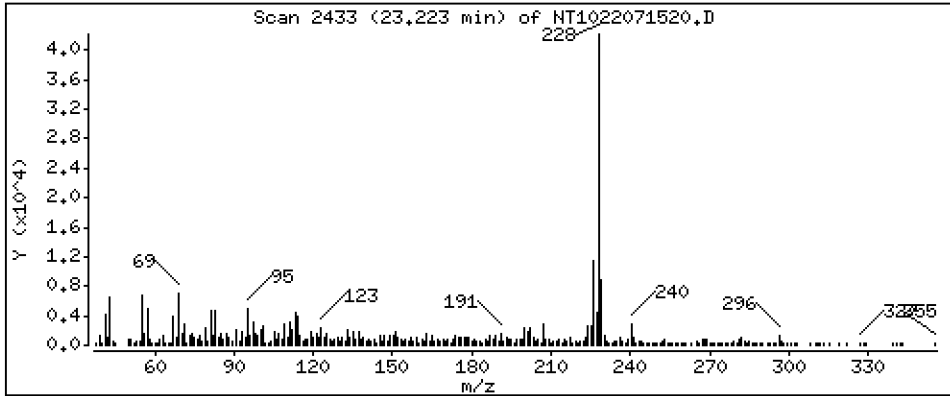
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 111,2 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

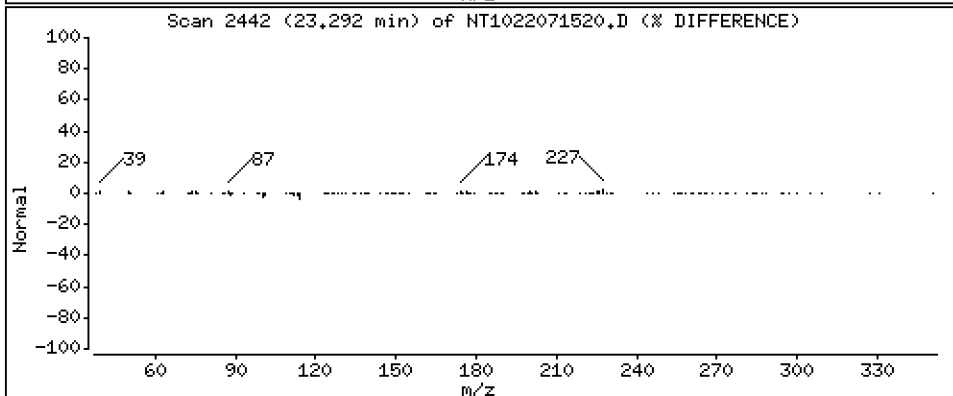
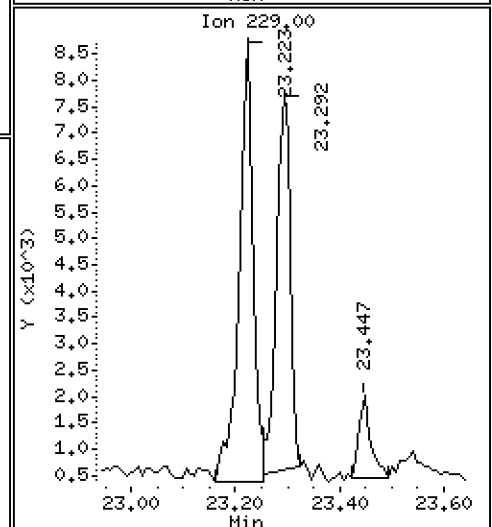
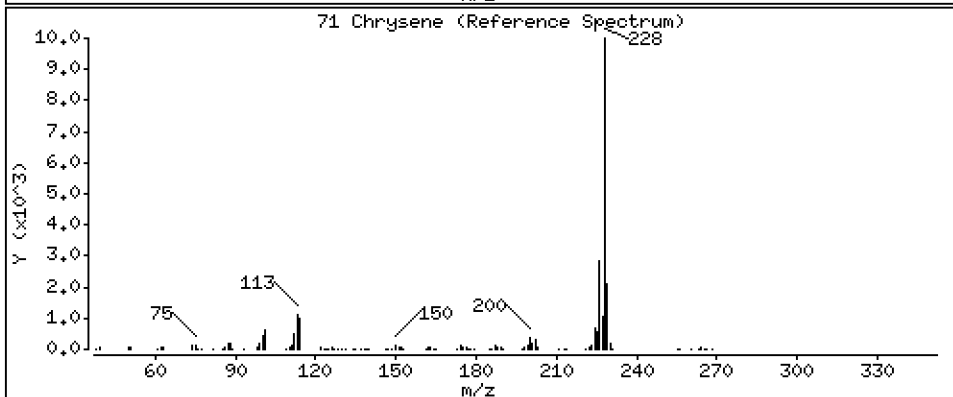
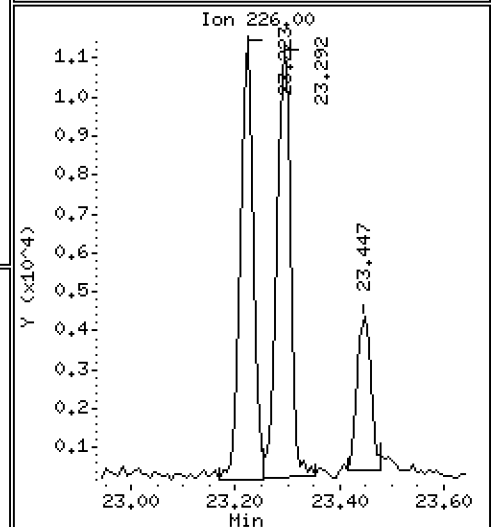
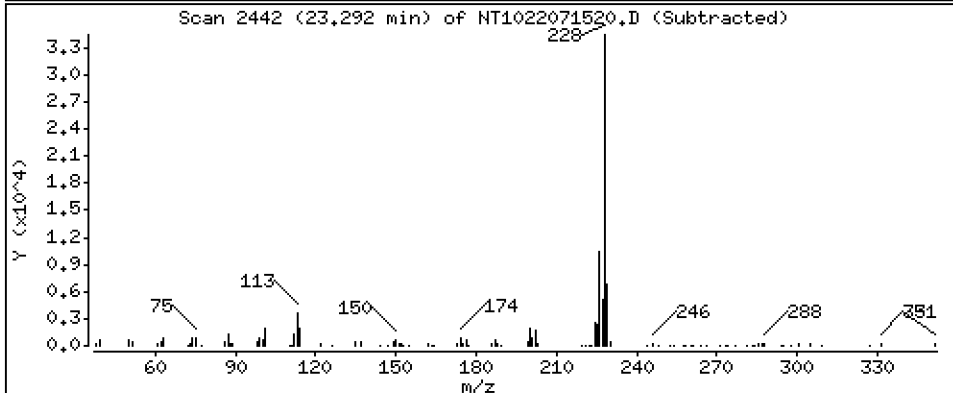
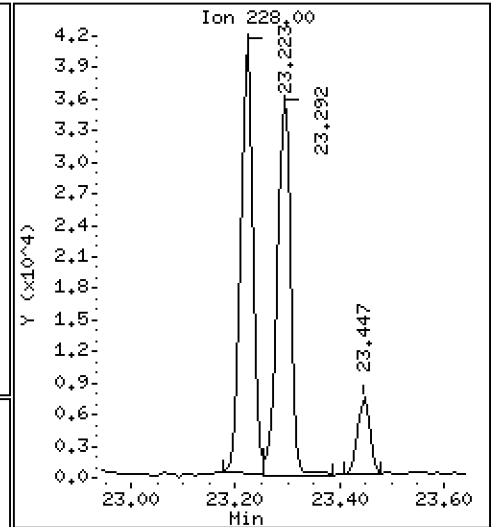
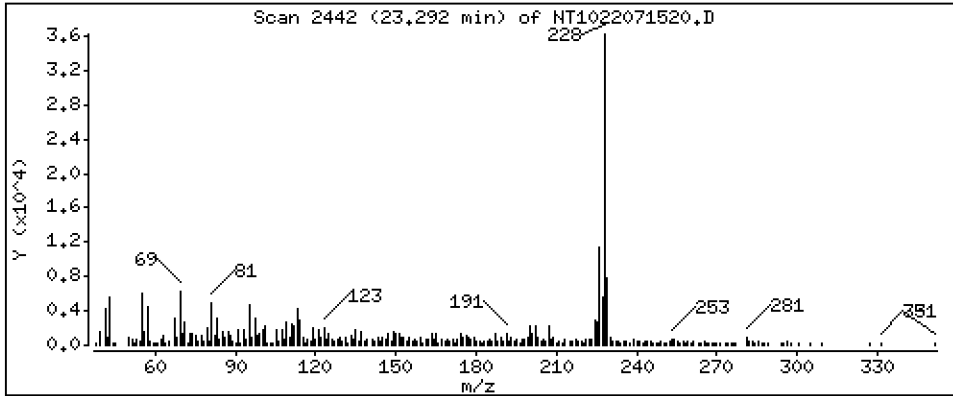
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 156,2 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

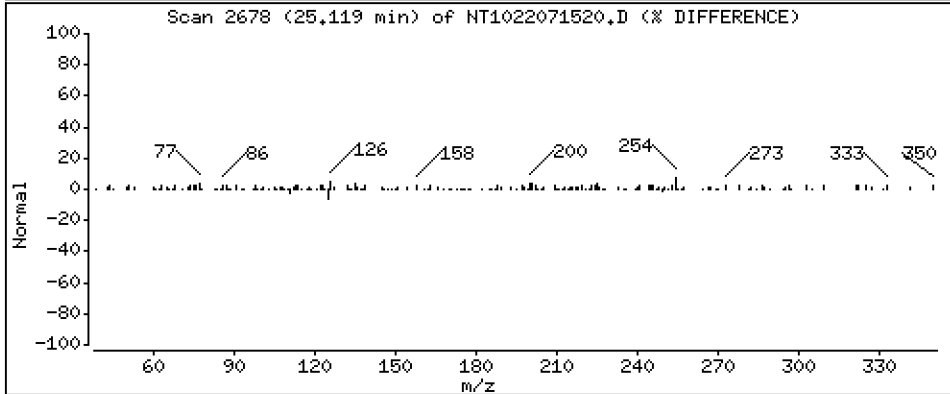
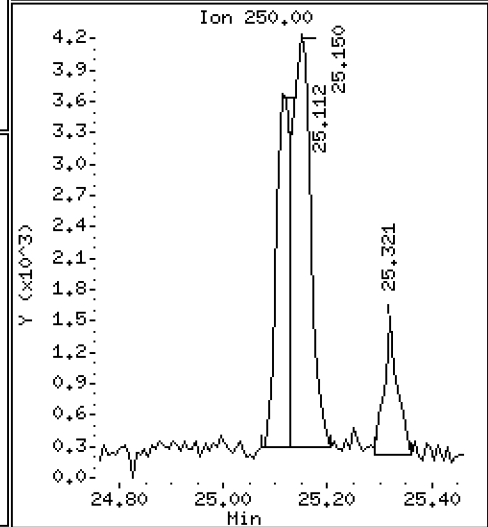
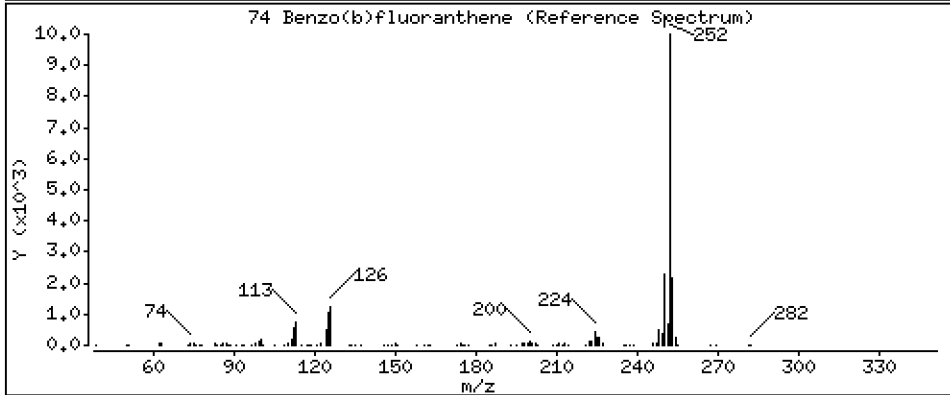
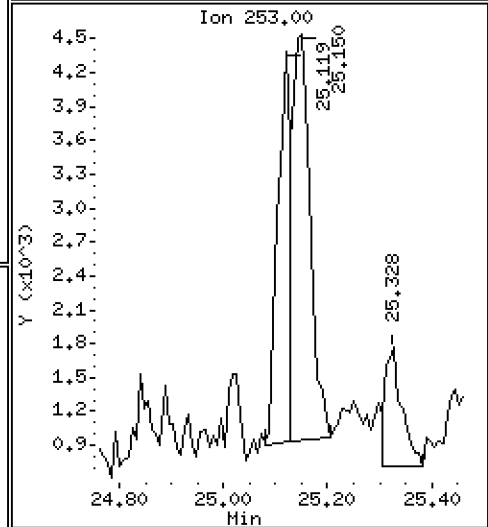
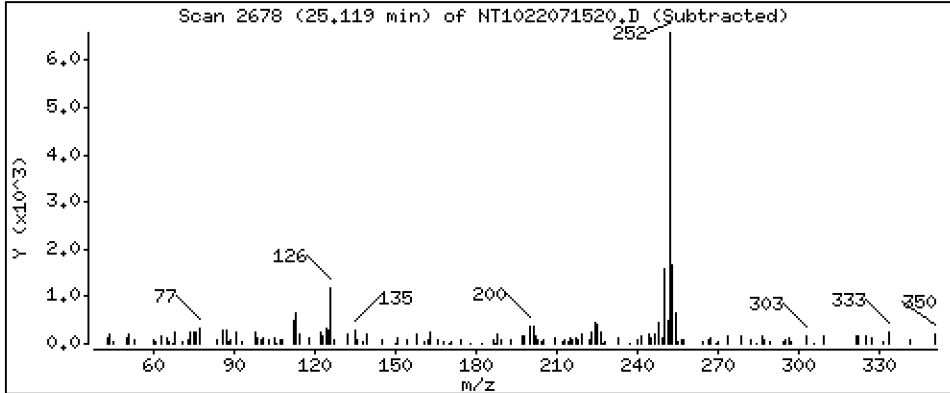
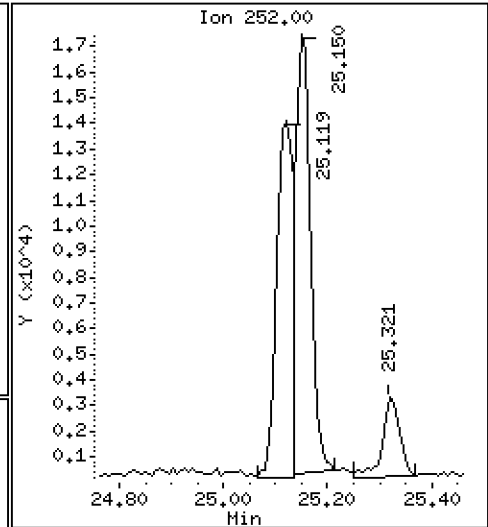
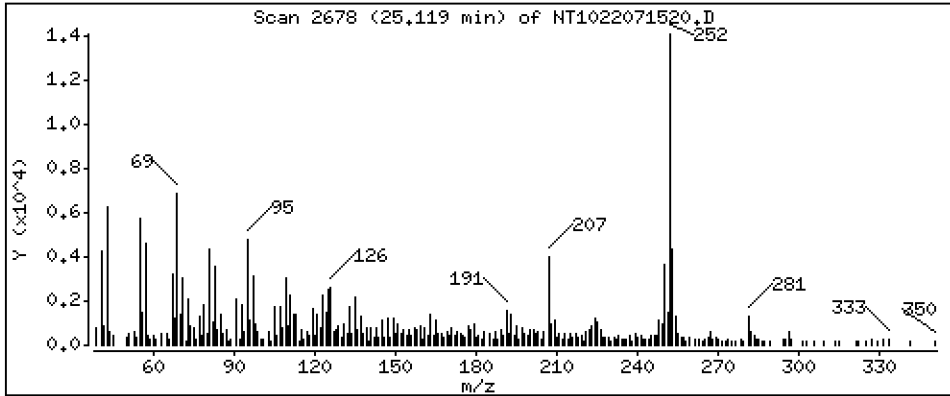
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 61,29 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

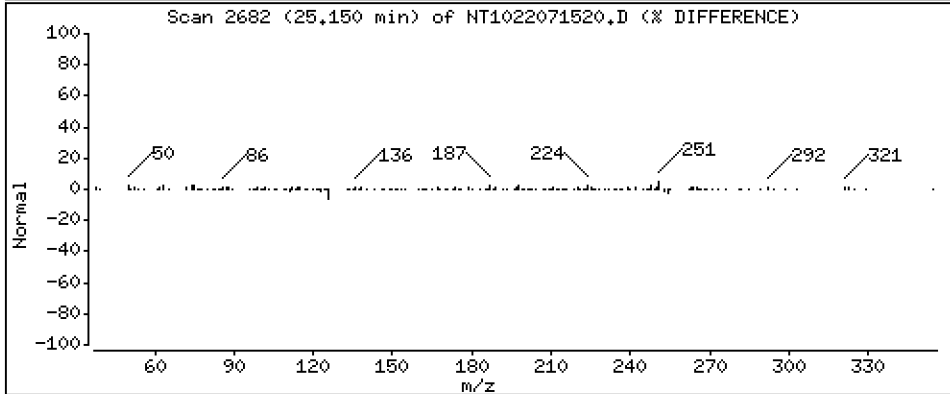
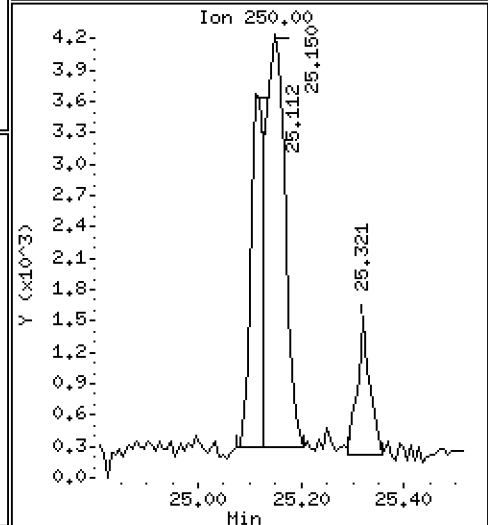
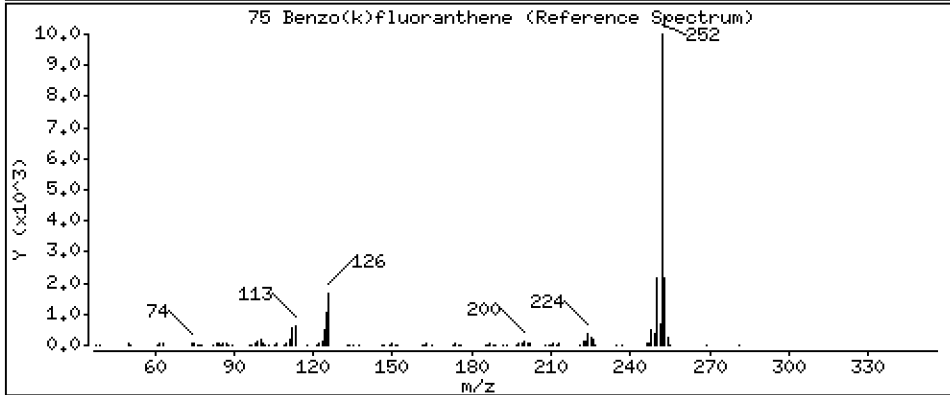
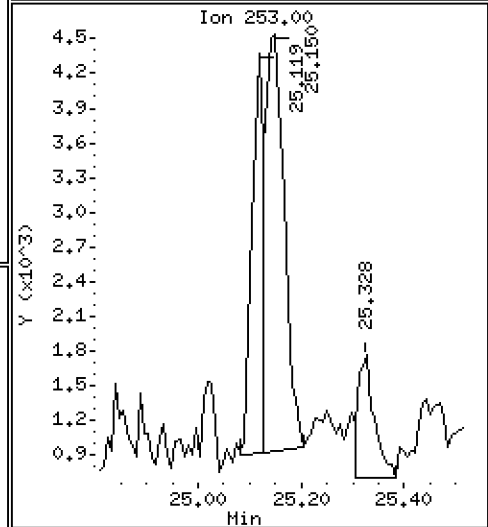
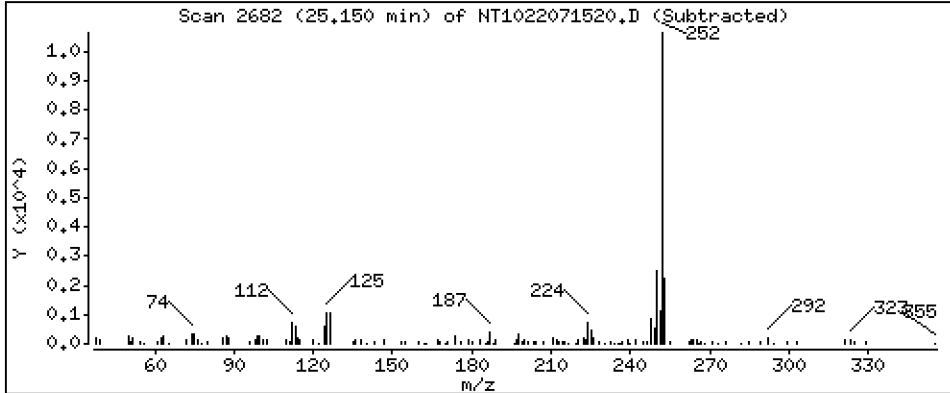
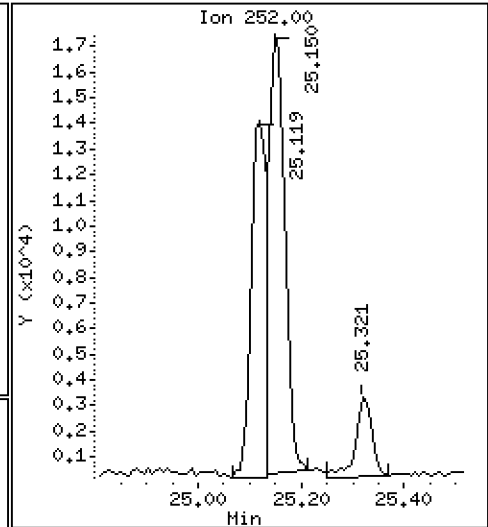
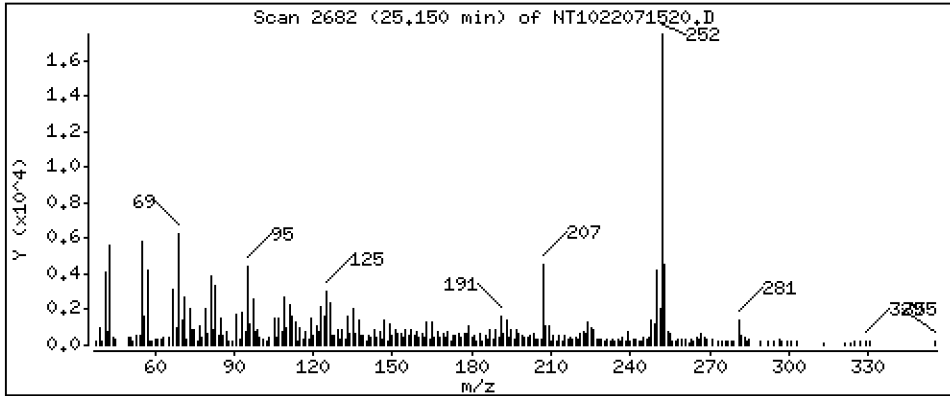
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

75 Benzo(k)fluoranthene

Concentration: 76.99 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

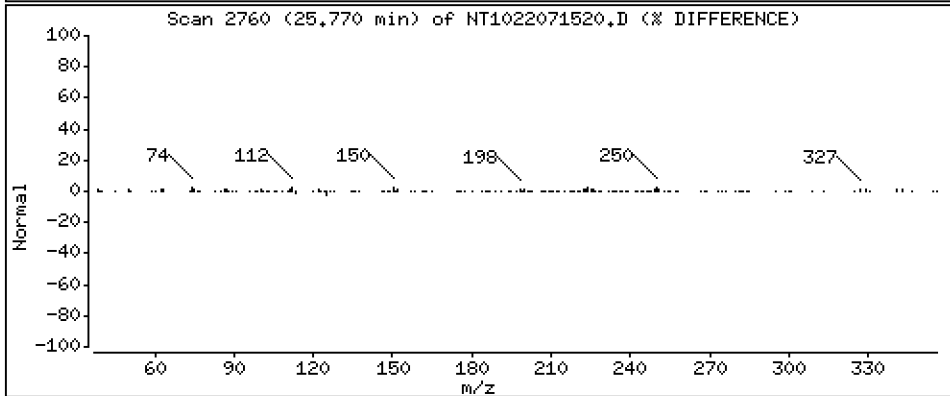
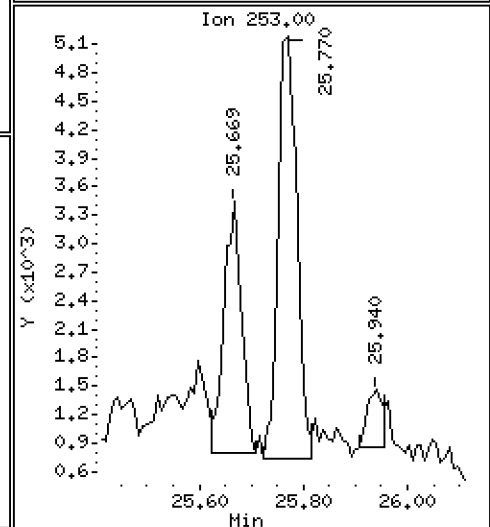
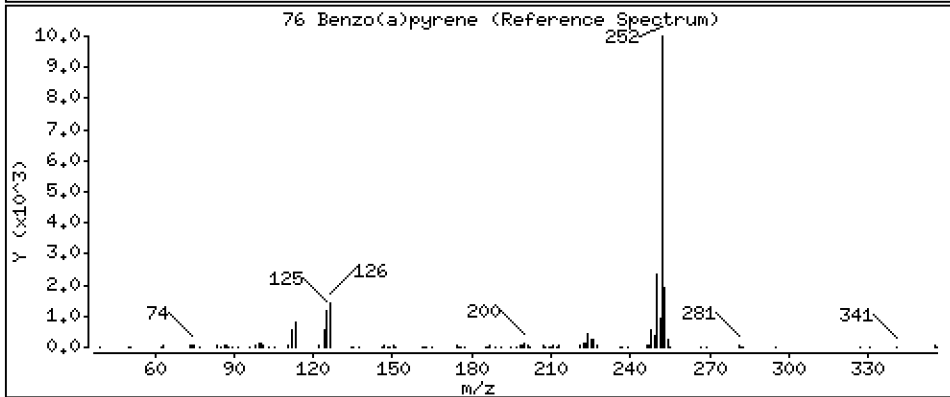
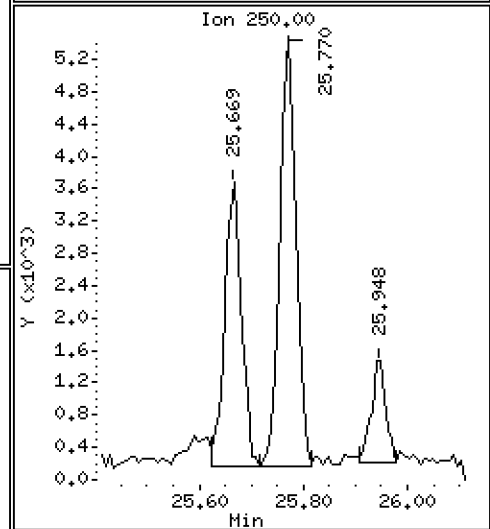
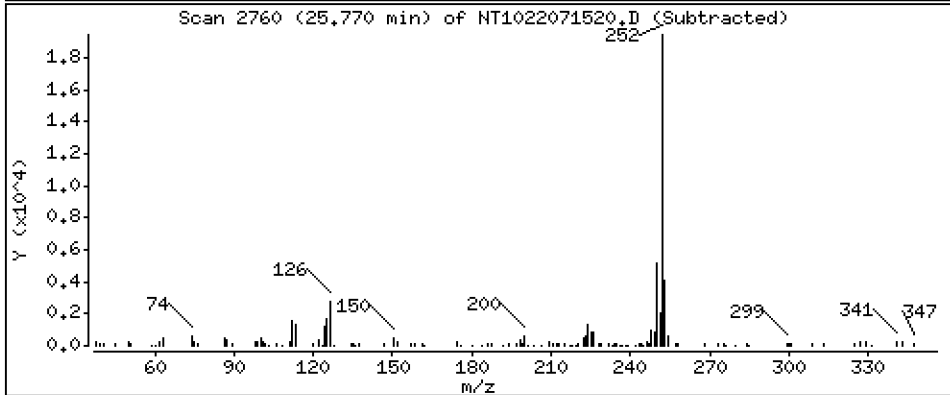
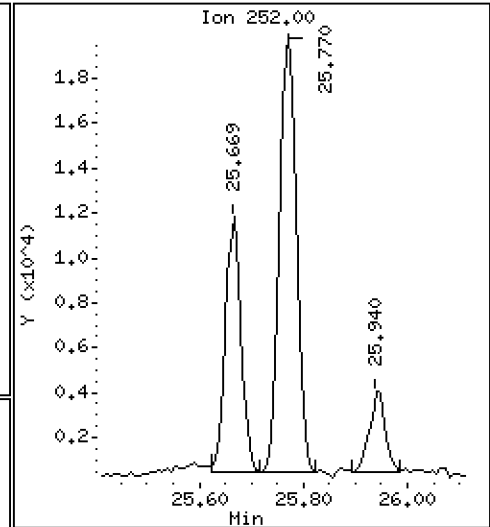
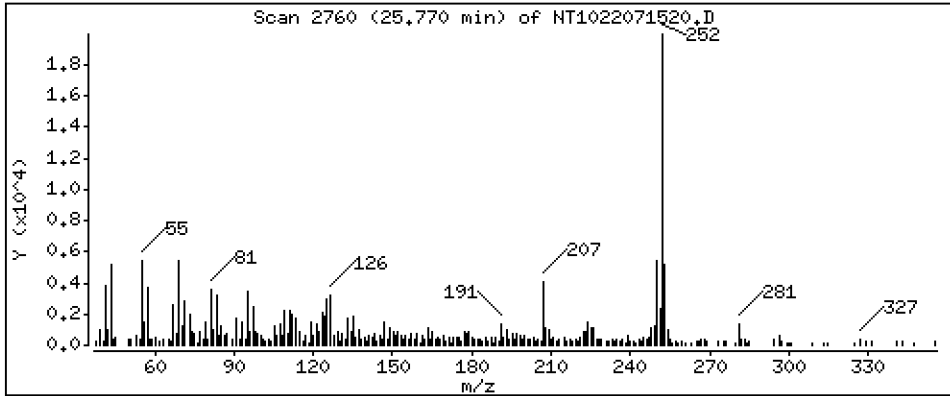
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 104,0 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

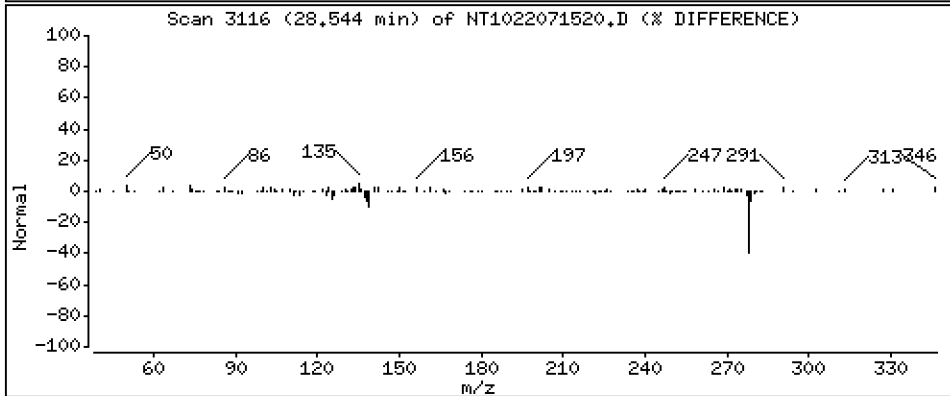
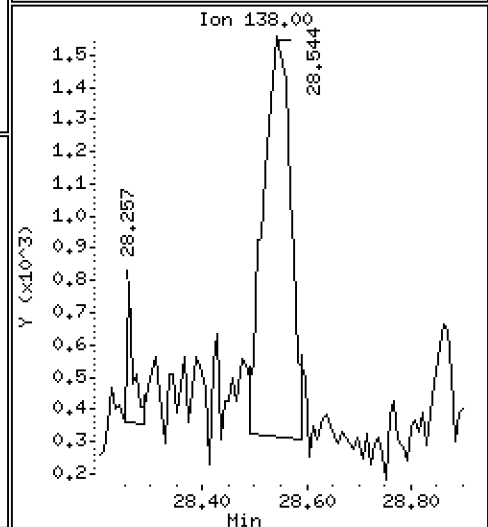
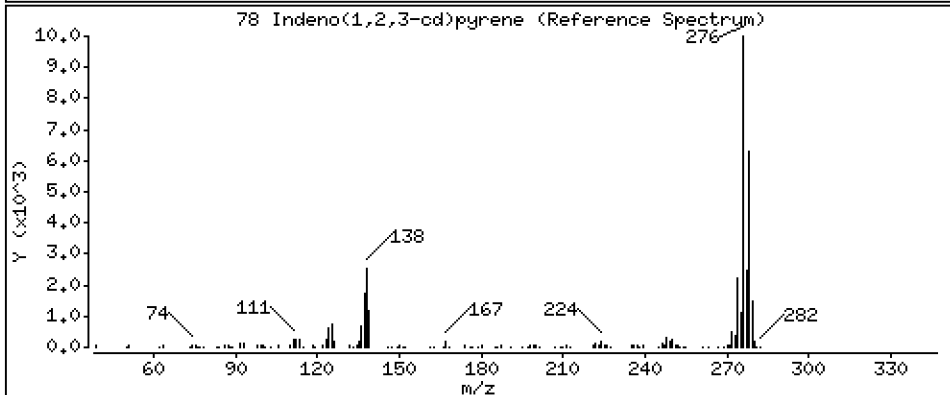
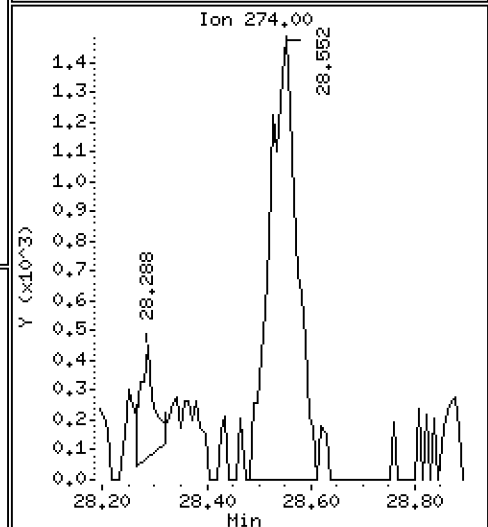
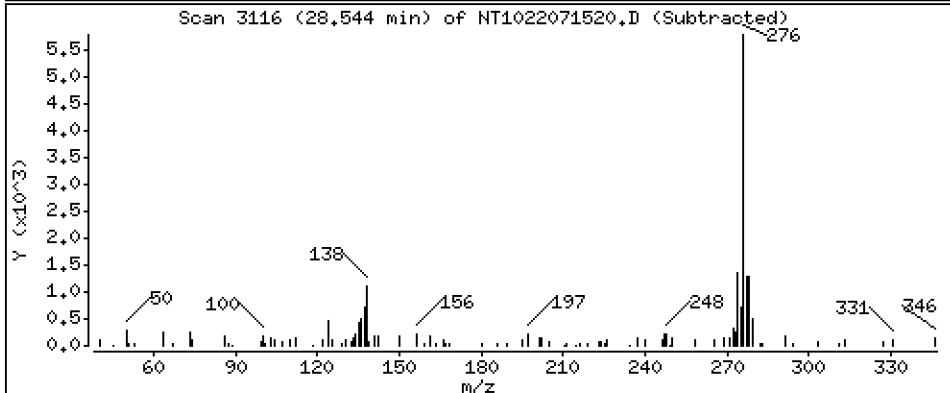
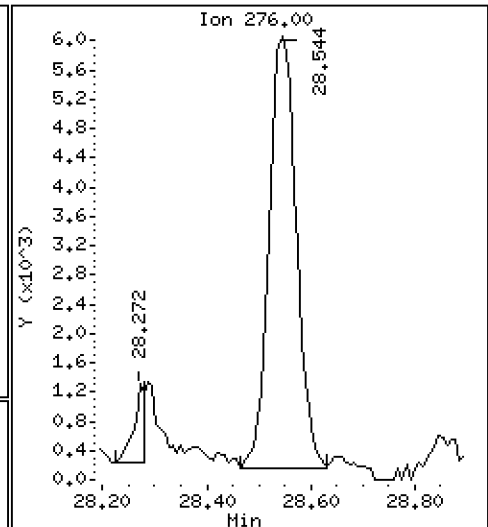
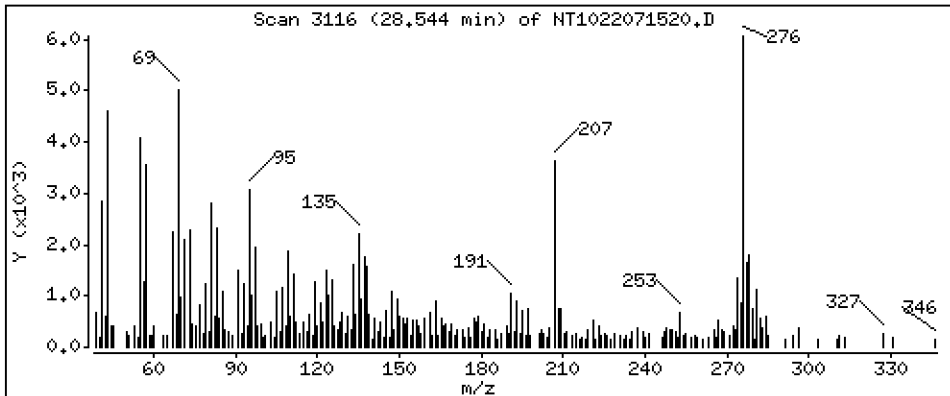
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 48,77 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

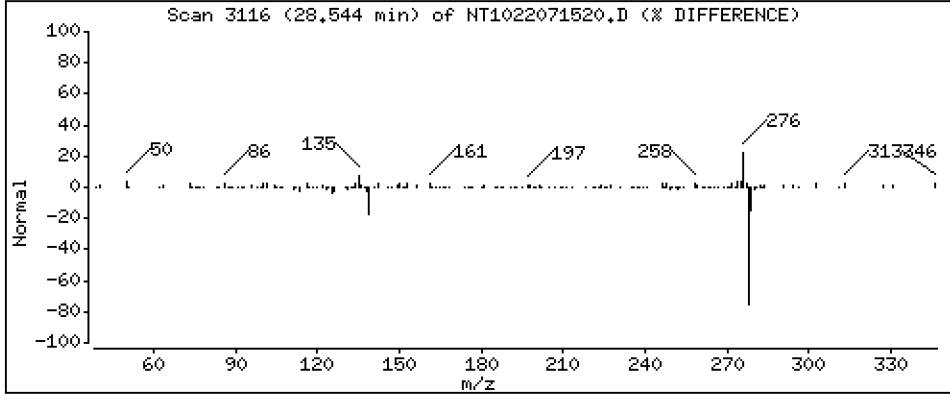
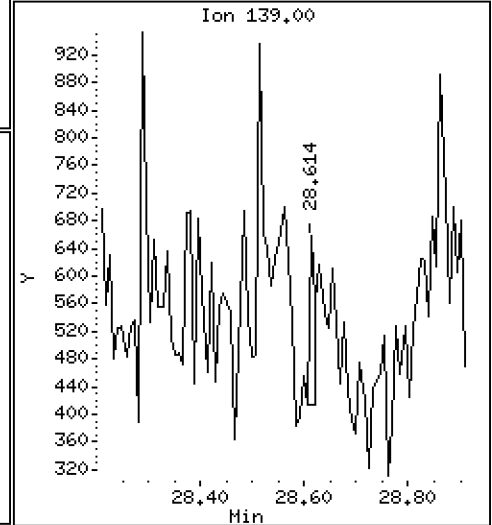
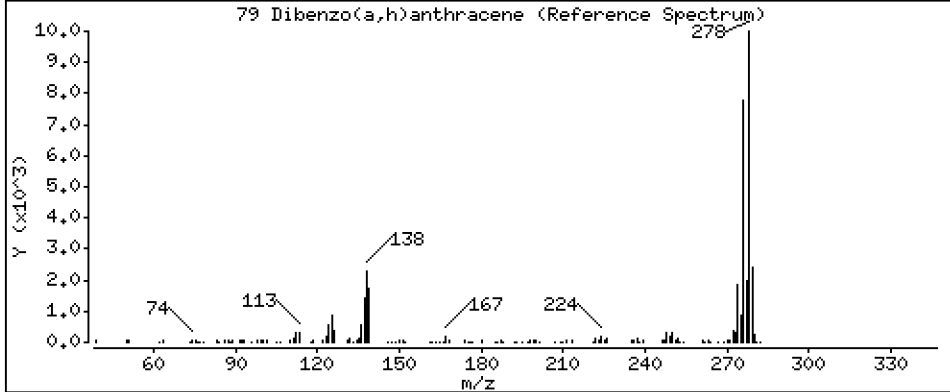
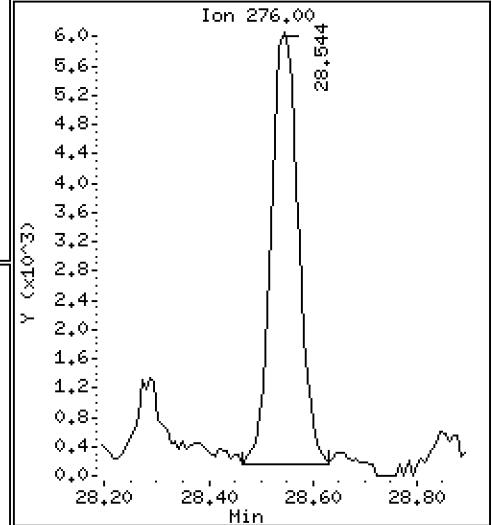
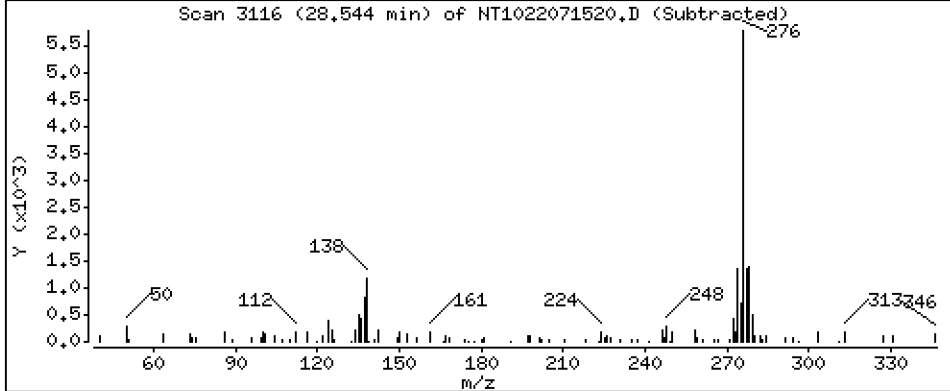
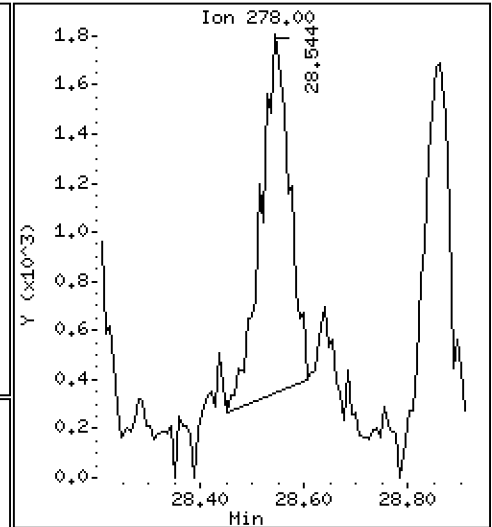
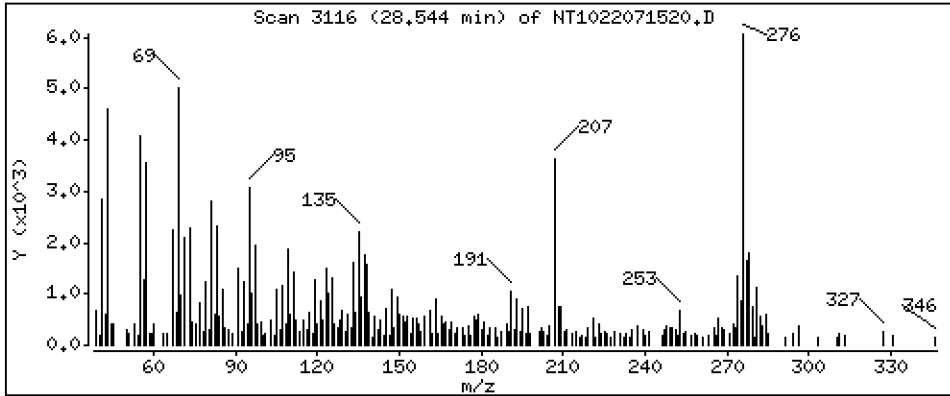
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 16,66 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

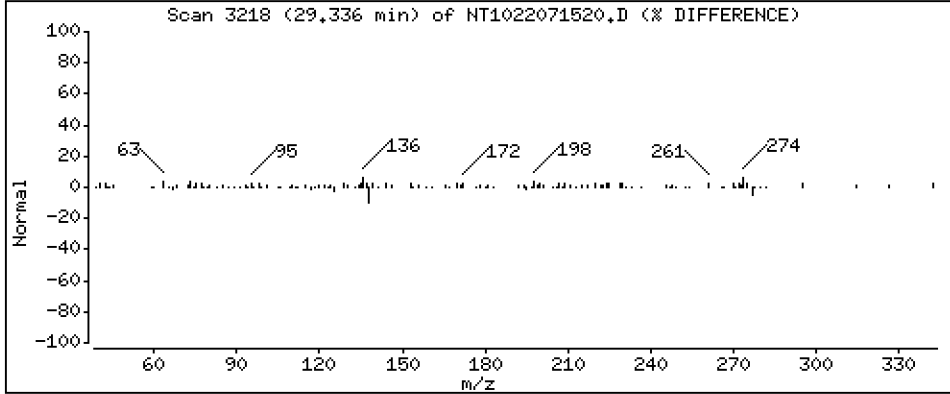
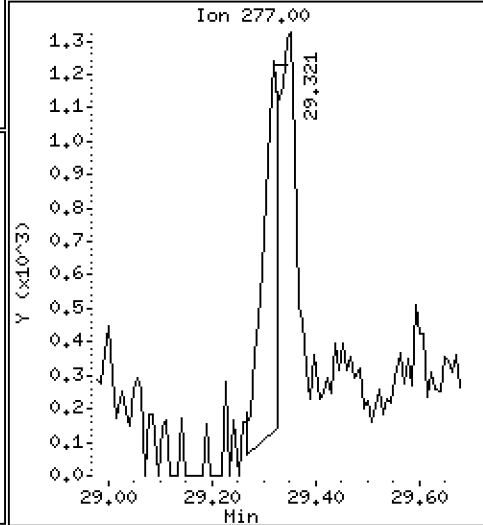
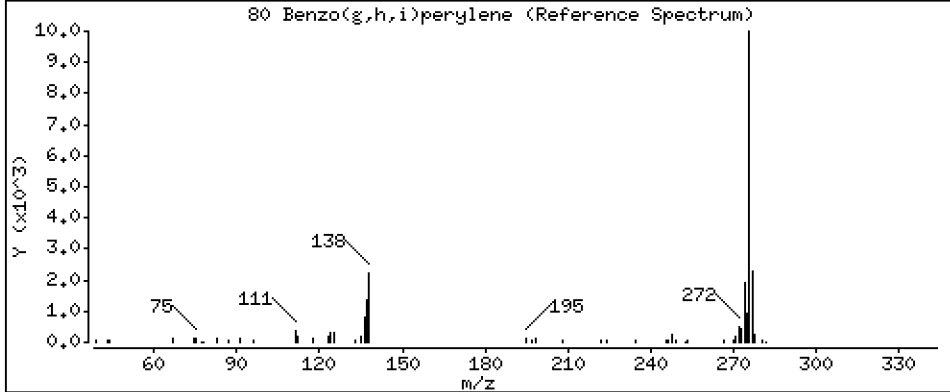
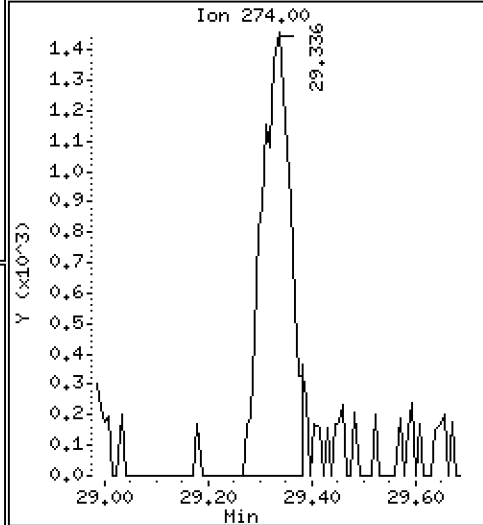
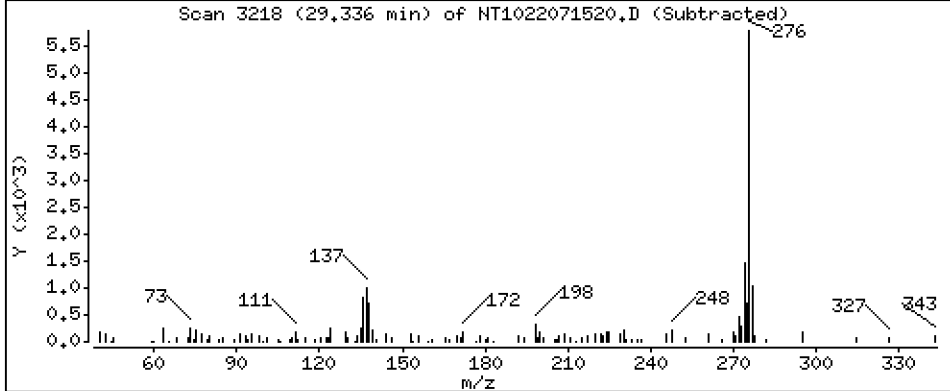
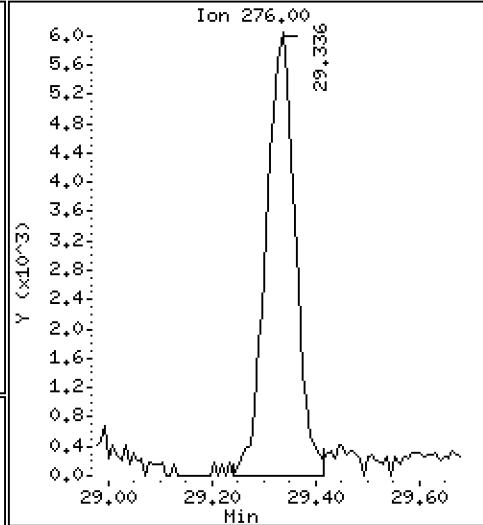
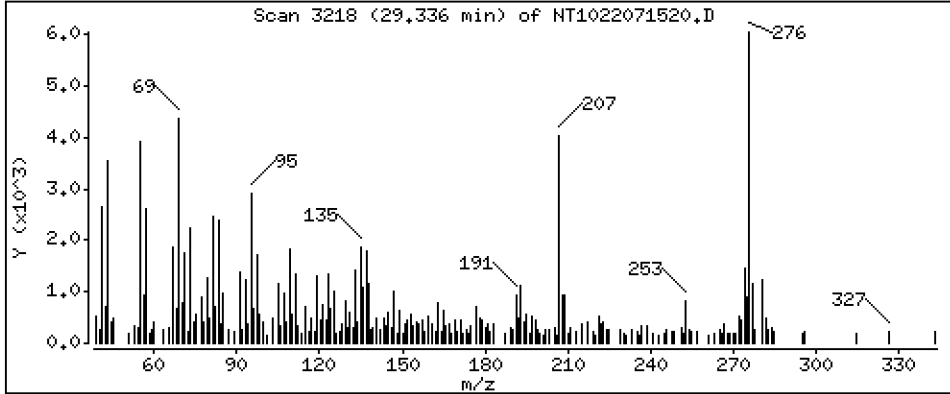
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 66,93 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

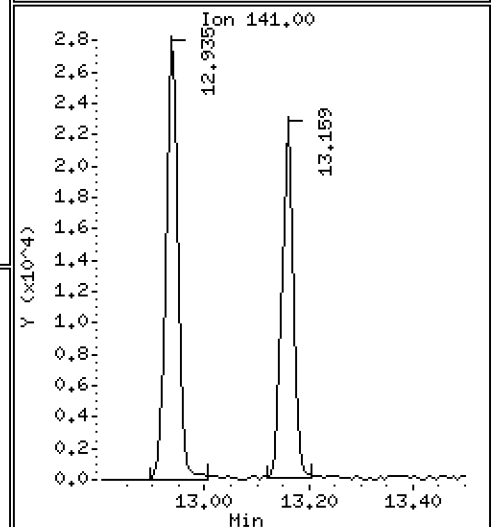
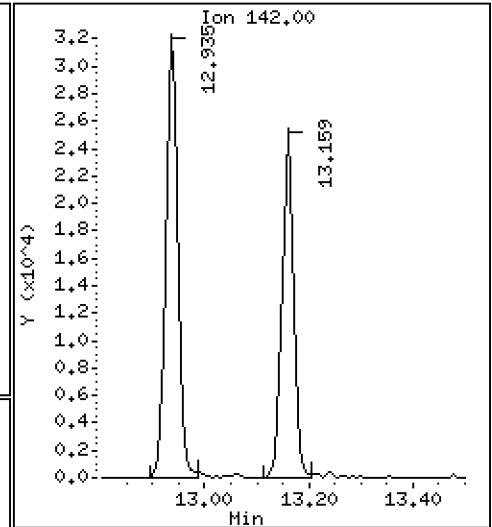
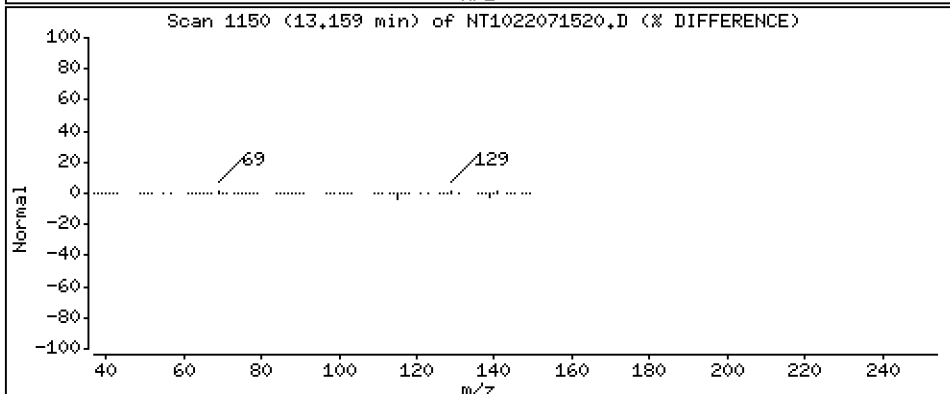
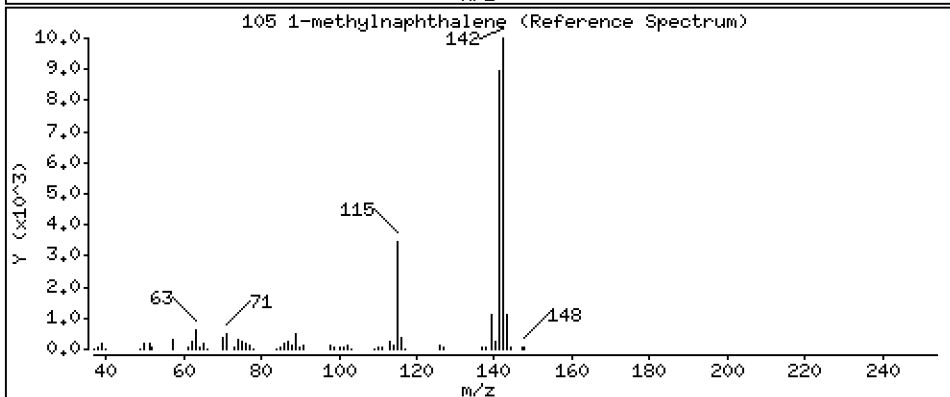
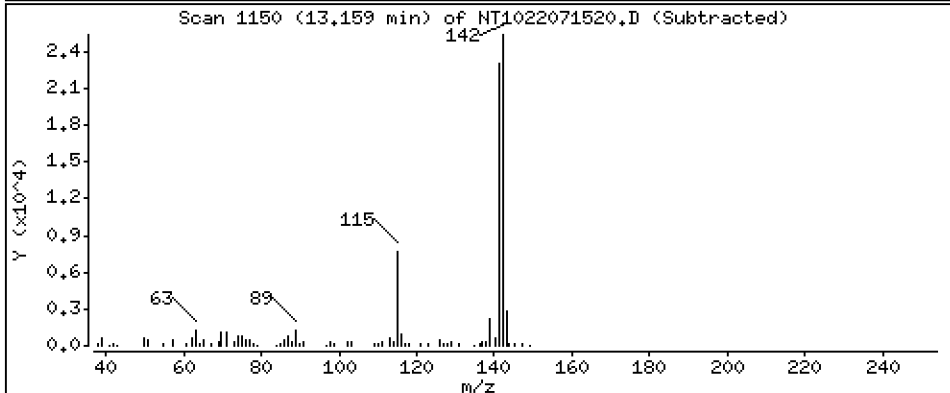
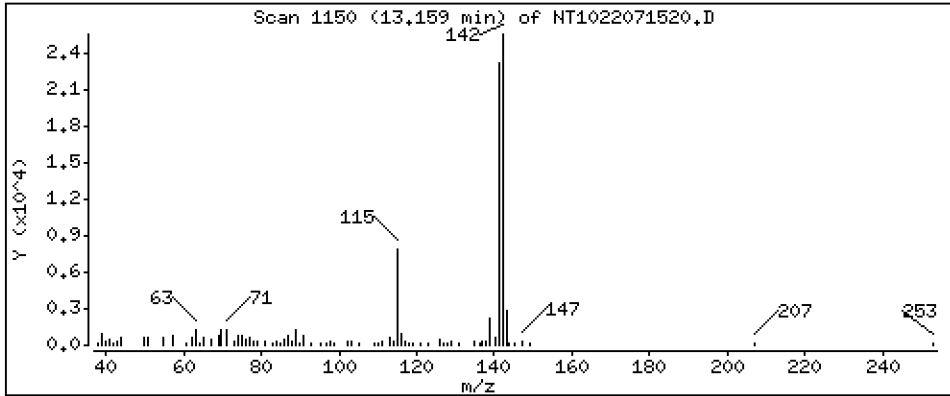
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 15,79 ug/mL



Date : 16-JUL-2022 00:32

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-05RE1,100

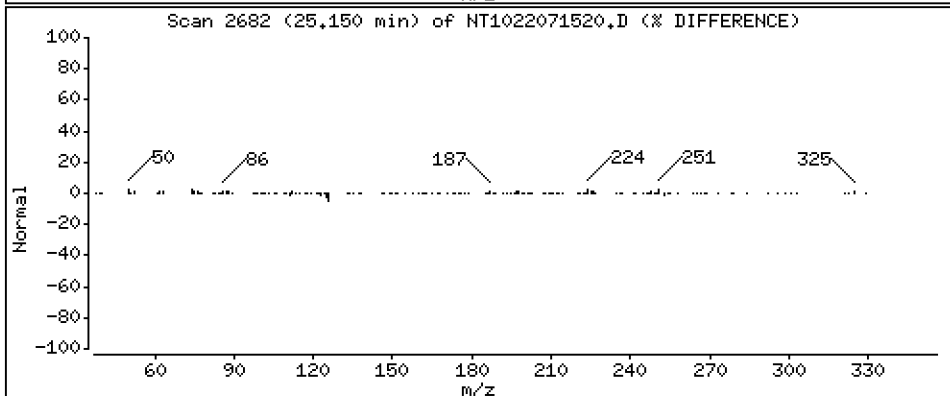
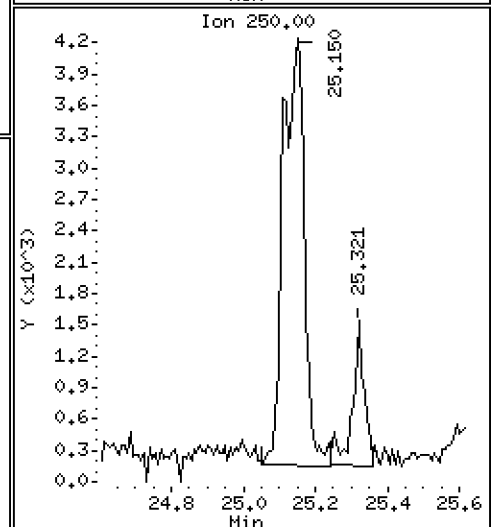
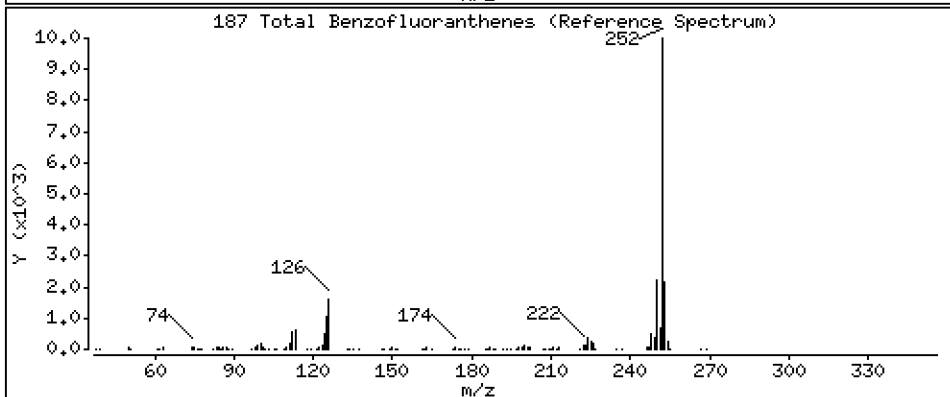
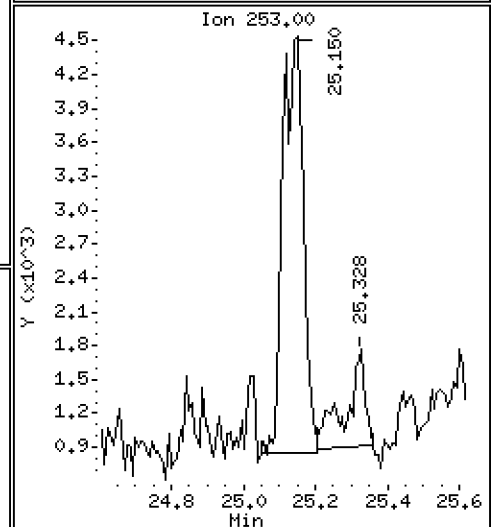
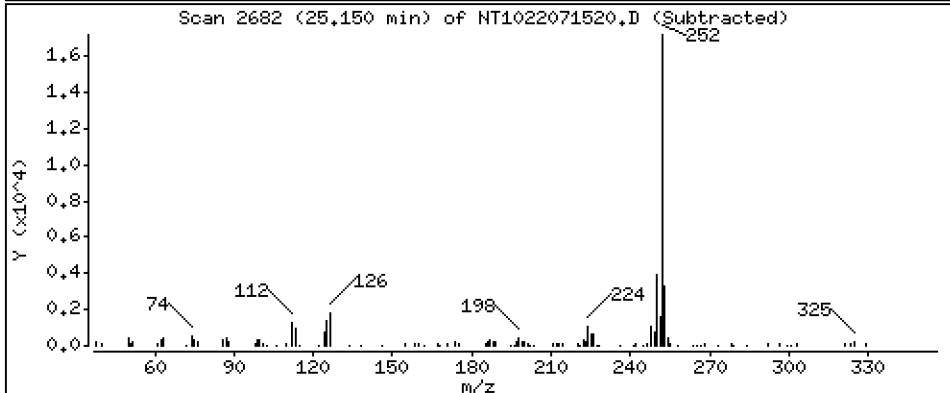
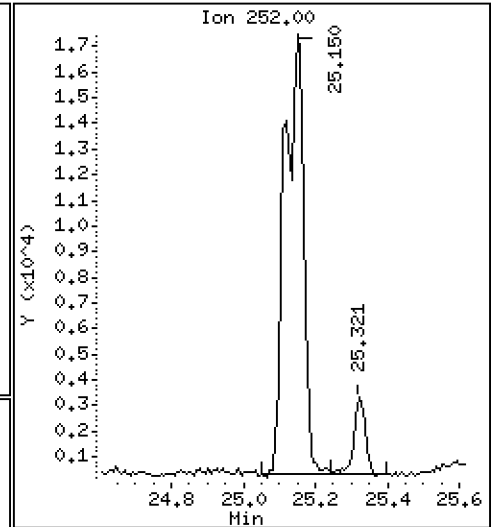
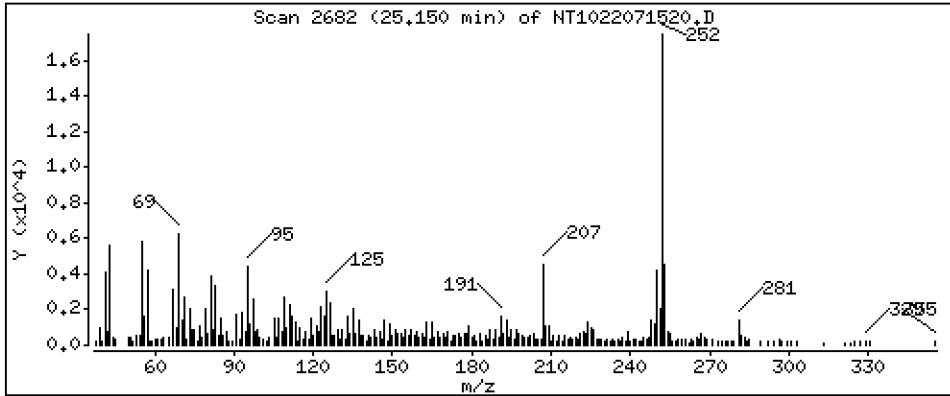
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 133,8 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071520.D
 Lab Smp Id: 22G0019-05RE1
 Inj Date : 16-JUL-2022 00:32
 Operator : VTS
 Smp Info : 22G0019-05RE1,100
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 20
 Dil Factor: 100.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.821	6.806	(0.757)	7155	0.06110	6.110
\$ 2 Phenol-d5	99		8.413	8.398	(0.934)	7298	0.04200	4.200
3 Phenol	94		Compound Not Detected.					
\$ 5 2-Chlorophenol-d4	132		8.660	8.652	(0.961)	7575	0.06348	6.348
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.008	9.001	(1.000)	320720	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.373	9.366	(1.040)	3921	0.05332	5.332 (M)
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		10.110	10.095	(0.879)	4353	0.04256	4.256
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.496	11.488	(1.000)	961191	4.00000	
28 Naphthalene	128		11.534	11.535	(1.003)	95529	0.38833	38.83
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		12.934	12.927	(1.125)	52952	0.21658	21.66
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.716	13.716	(0.907)	11052	0.05413	5.413
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152		14.807	14.800	(0.980)	8634	0.03274	3.274
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.117	15.109	(1.000)	451195	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.186	15.179	(1.005)	164365	1.25259	125.3
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.511	15.511	(1.026)	25888	0.12414	12.41
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		16.230	16.223	(1.074)	182054	0.73061	73.06
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.777	16.762	(1.110)	670	0.03295	3.295 (M)
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.168	18.161	(1.000)	641306	4.00000	
60 Phenanthrene	178		18.215	18.207	(1.003)	911988	5.41293	541.3
61 Anthracene	178		18.308	18.300	(1.008)	205808	1.14627	114.6
62 Carbazole	167		18.648	18.641	(1.026)	38250	0.23092	23.09
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.621	20.606	(0.887)	368908	3.71263	371.3
65 Pyrene	202		21.039	21.031	(0.905)	396104	4.51028	451.0
\$ 66 Terphenyl-d14	244		21.333	21.326	(0.917)	3217	0.06710	6.710
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.222	23.215	(0.999)	64717	1.11167	111.2
* 69 Chrysene-d12	240		23.253	23.246	(1.000)	137385	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.292	23.292	(1.002)	61074	1.56196	156.2
72 bis(2-Ethylhexyl)phthalate	149							
* 134 Di-n-octylphthalate-d4	153		24.306	24.306	(1.000)	269908	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.119	25.112	(0.970)	30762	0.61292	61.29
75 Benzo(k)fluoranthene	252		25.150	25.158	(0.971)	37154	0.76985	76.99
76 Benzo(a)pyrene	252		25.769	25.762	(0.995)	42722	1.04004	104.0
* 77 Perylene-d12	264		25.893	25.878	(1.000)	110822	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.544	28.544	(1.102)	21391	0.48772	48.77
79 Dibenzo(a,h)anthracene	278		28.544	28.560	(1.102)	5592	0.16655	16.66 (M)
80 Benzo(g,h,i)perylene	276		29.336	29.329	(1.133)	23465	0.66929	66.93
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.159	13.151	(1.145)	37927	0.15790	15.79
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252		25.150	25.112	(0.971)	62626	1.33827	133.8
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071520.D Calibration Time: 12:41
 Lab Smp Id: 22G0019-05RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	320720	59.14
27 Naphthalene-d8	649654	324827	1299308	961191	47.95
42 Acenaphthene-d10	370460	185230	740920	451195	21.79
59 Phenanthrene-d10	647298	323649	1294596	641306	-0.93
69 Chrysene-d12	221116	110558	442232	137385	-37.87
134 Di-n-octylphthala	319144	159572	638288	269908	-15.43
77 Perylene-d12	105234	52617	210468	110822	5.31

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.01	0.08
27 Naphthalene-d8	11.49	10.99	11.99	11.50	0.06
42 Acenaphthene-d10	15.11	14.61	15.61	15.12	0.05
59 Phenanthrene-d10	18.16	17.66	18.66	18.17	0.04
69 Chrysene-d12	23.25	22.75	23.75	23.25	0.03
134 Di-n-octylphthala	24.31	23.81	24.81	24.31	-0.00
77 Perylene-d12	25.88	25.38	26.38	25.89	0.06

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

REVIEW SUMMARY FOR FILE - NT1022071520.D

Lab ID: 22G0019-05RE1
nt10.i, ABN.m, 16-JUL-2022 00:32

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE			

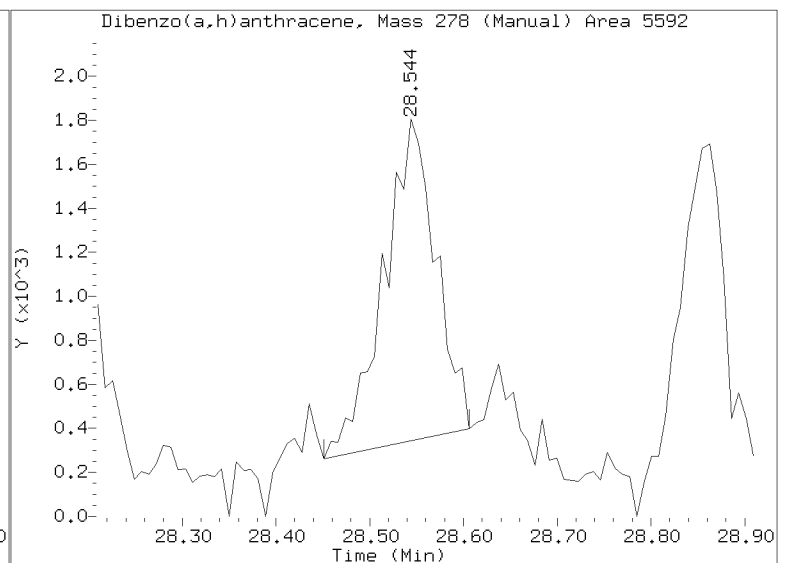
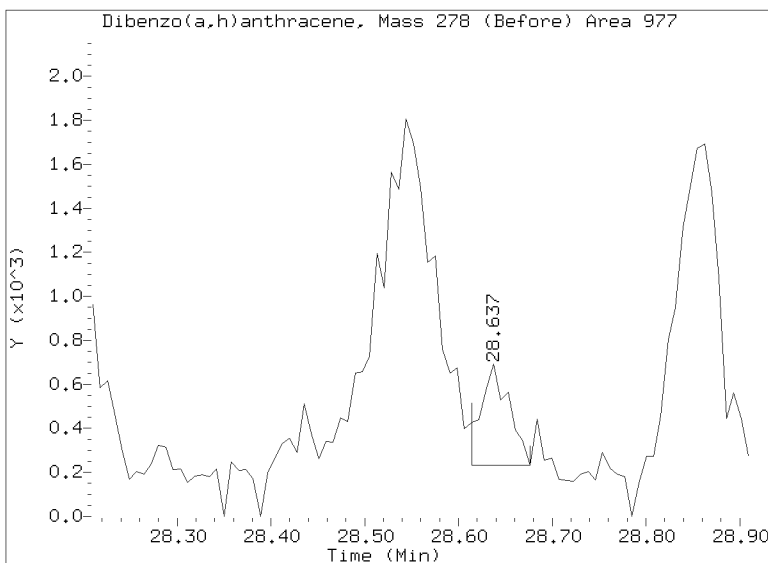
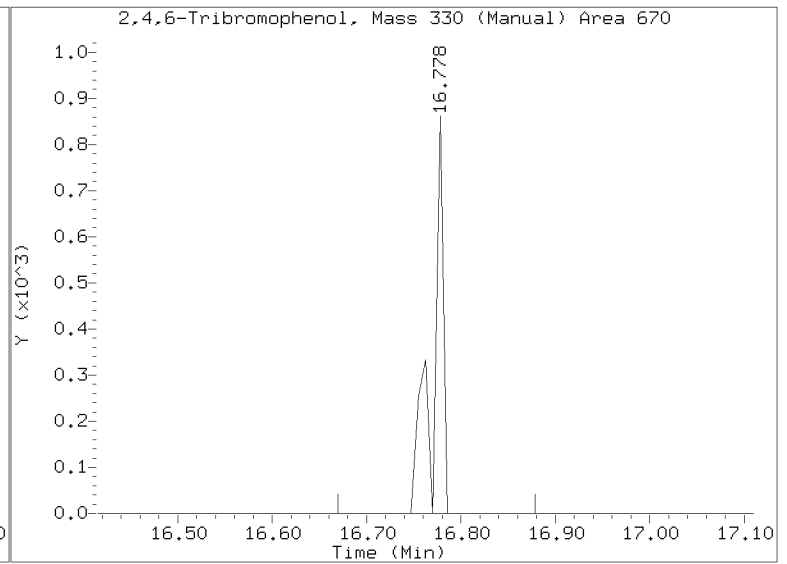
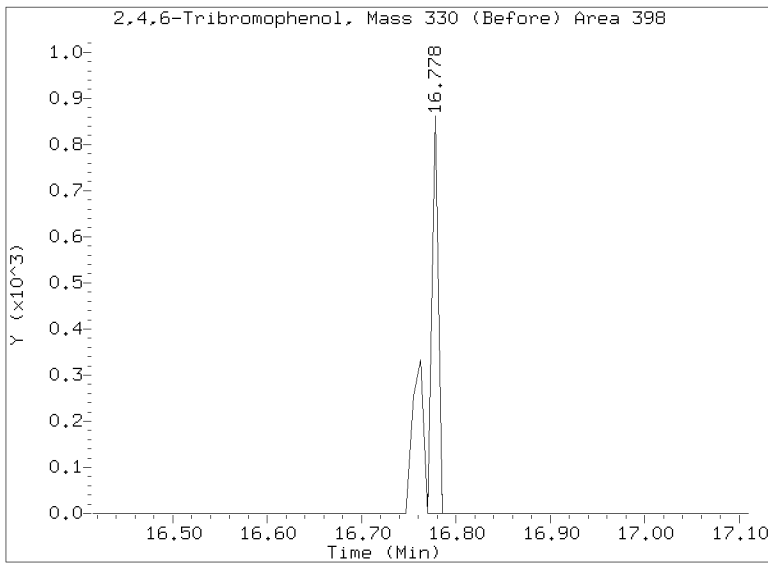
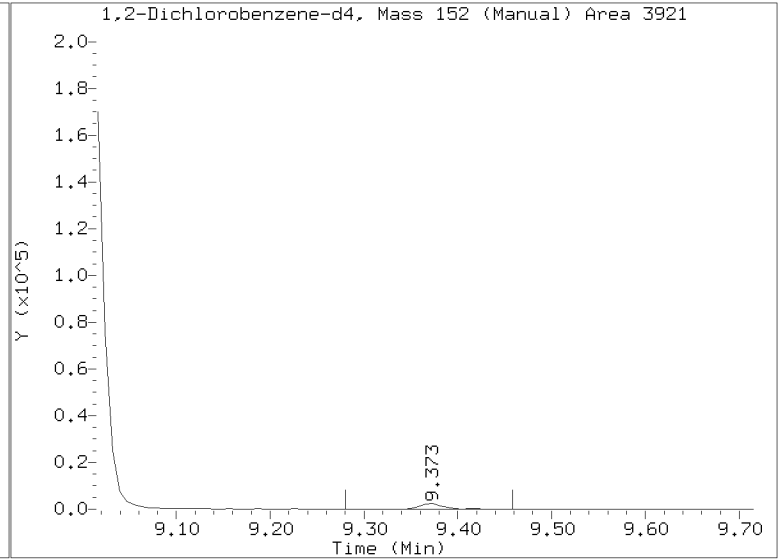
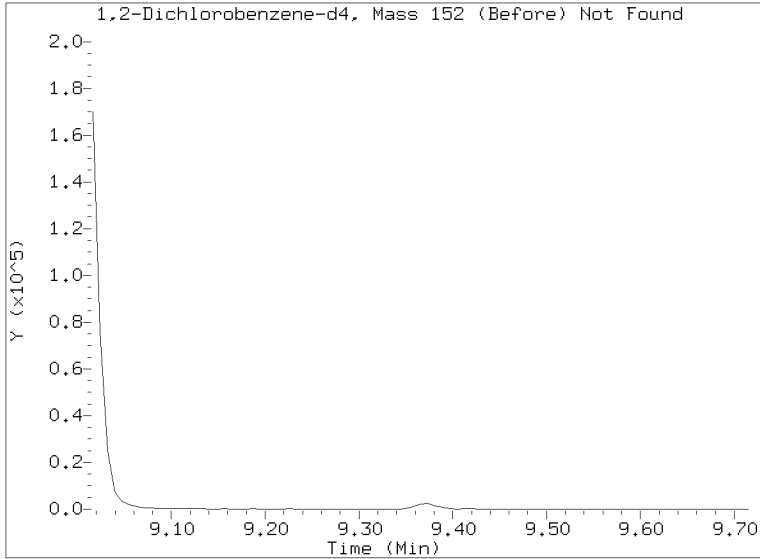
RRT check based on Ccal File: NT1022071502.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071520.D
Injection Date: 16-JUL-2022 00:32
Lab ID:22G0019-05RE1 Client ID:
Report Date: 07/16/2022 09:03





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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-06 A

SDG: 22G0019

Sampled: 06/28/22 11:40

Prepared: 07/07/22 10:01

File ID: NT1022071412.D

% Solids: 27.78

Preparation: EPA 3546 (Microwave)

Analyzed: 07/14/22 20:52

Batch: BKG0069

Sequence: SKG0139

Initial/Final: 20.07 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	1	5670	E	7.6	35.9
91-57-6	2-Methylnaphthalene	1	527		8.1	35.9
83-32-9	Acenaphthene	1	563		9.4	35.9
87-86-5	Pentachlorophenol	1	56.0	U	56.0	179
85-01-8	Phenanthrene	1	16800	E	15.6	35.9
206-44-0	Fluoranthene	1	3590	Q	10.9	35.9
56-55-3	Benzo(a)anthracene	1	2120		10.7	35.9
218-01-9	Chrysene	1	2990		10.9	35.9
205-99-2	Benzo(b)fluoranthene	1	3120		12.6	35.9
207-08-9	Benzo(k)fluoranthene	1	2800		9.0	35.9
50-32-8	Benzo(a)pyrene	1	3620	E	7.6	35.9
193-39-5	Indeno(1,2,3-cd)pyrene	1	193		26.3	35.9
53-70-3	Dibenzo(a,h)anthracene	1	57.3		30.9	35.9
90-12-0	1-Methylnaphthalene	1	375		9.4	35.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	1345.2	882	65.6	27 - 120	
Phenol-d5	1345.2	858	63.8	29 - 120	
2-Chlorophenol-d4	1345.2	1170	87.2	31 - 120	
1,2-Dichlorobenzene-d4	896.79	792	88.3	32 - 120	
Nitrobenzene-d5	896.79	792	88.3	30 - 120	
2-Fluorobiphenyl	896.79	1210	135	35 - 120	*
2,4,6-Tribromophenol	1345.2	760	56.5	24 - 134	
p-Terphenyl-d14	896.79	507	56.5	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220714.6\NT1022071412.D

Date: 14-JUL-2022 20:52

Client ID:

Sample Info: 2200019-06

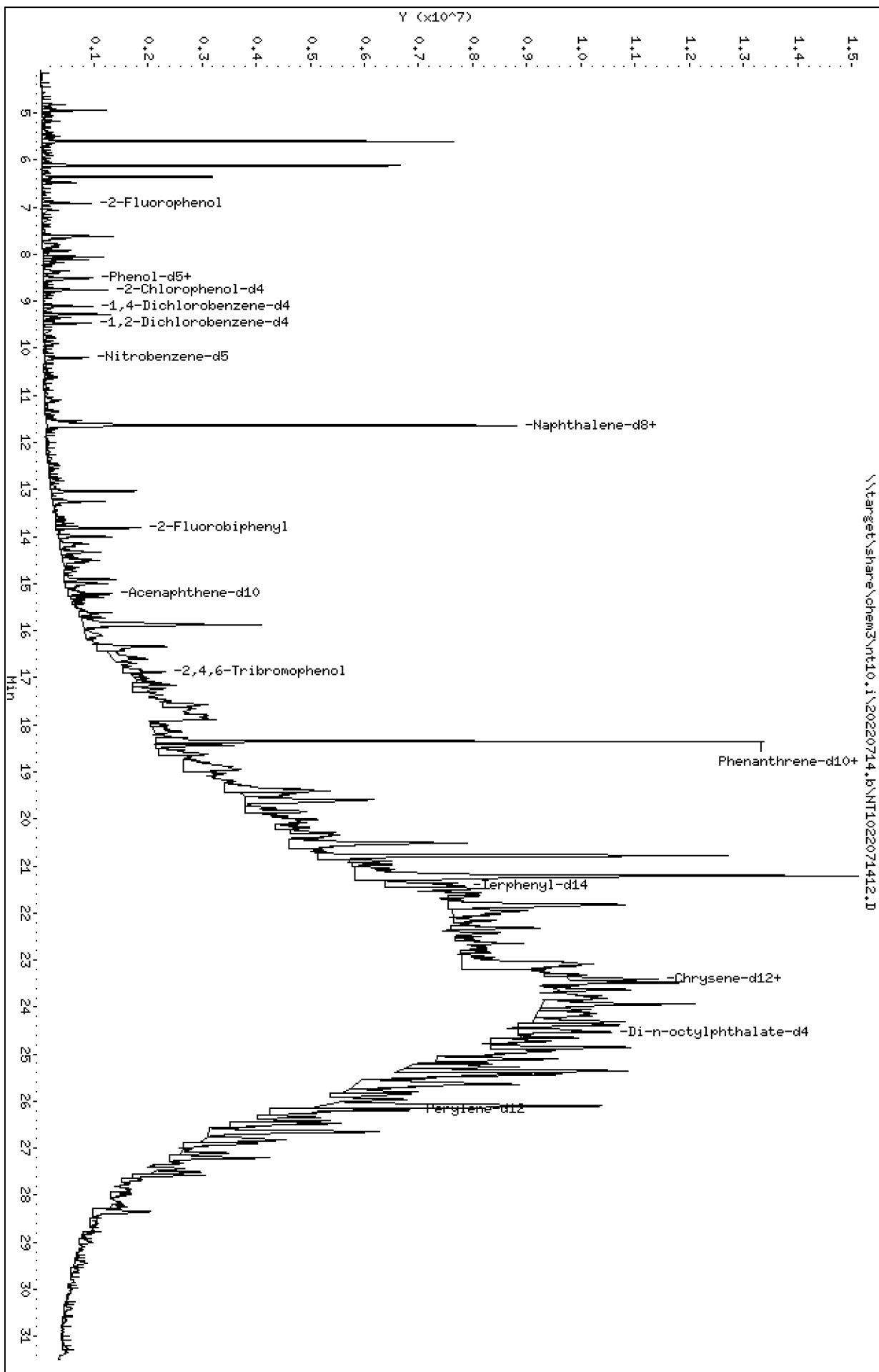
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

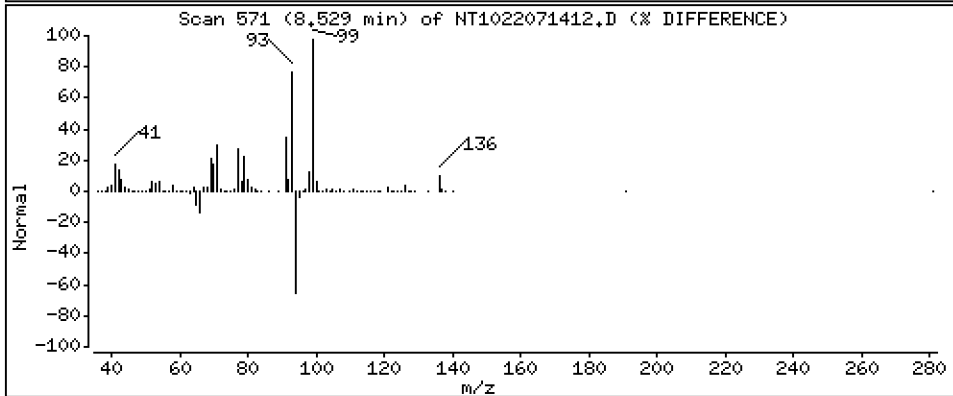
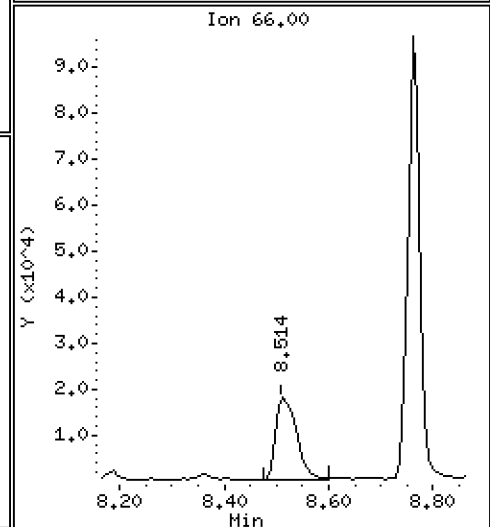
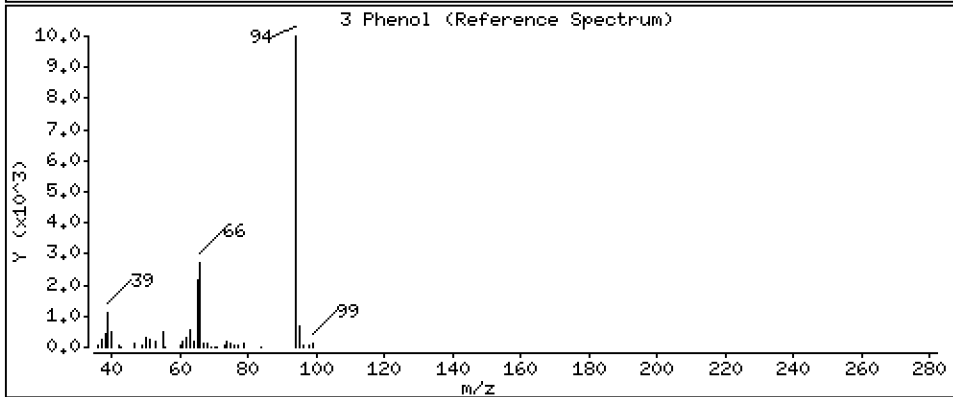
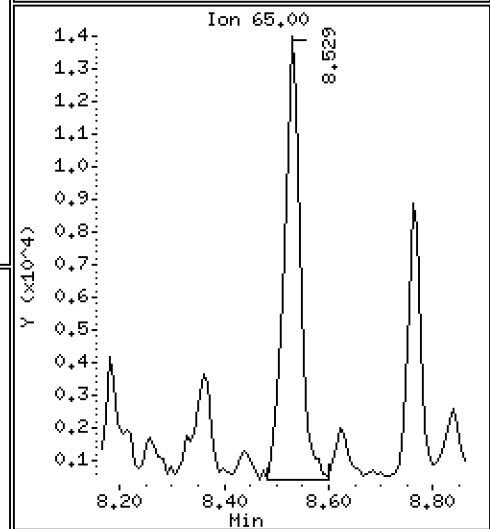
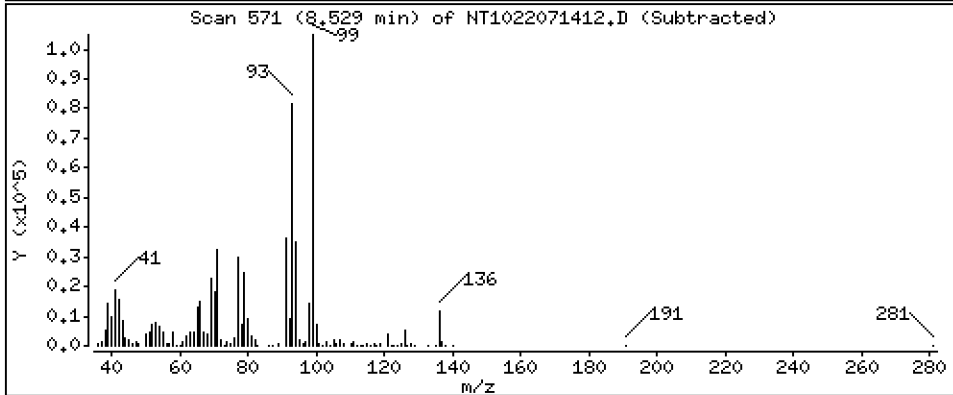
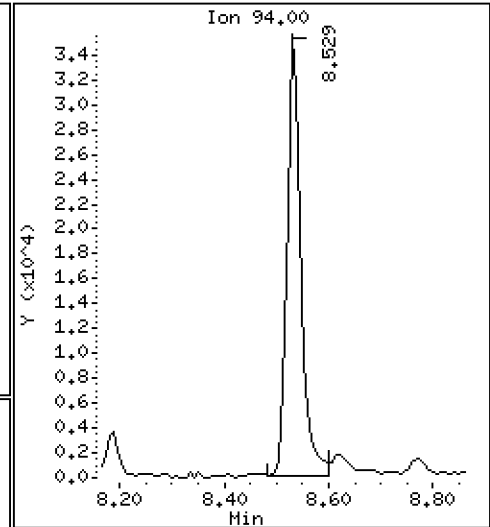
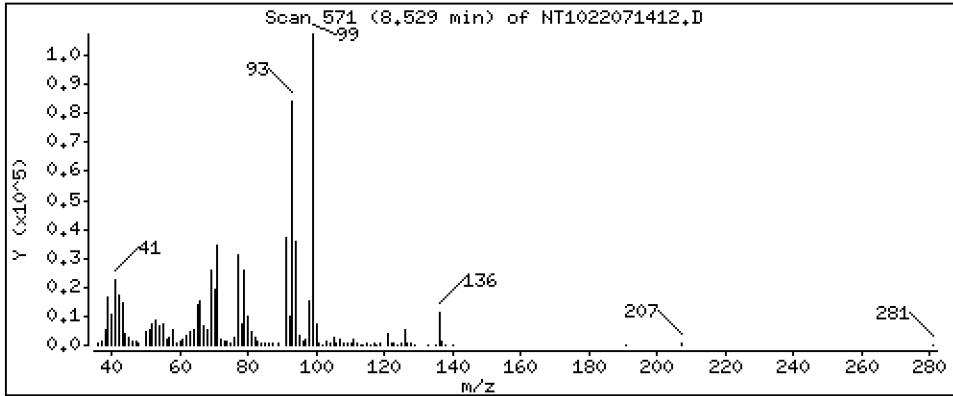
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,5704 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

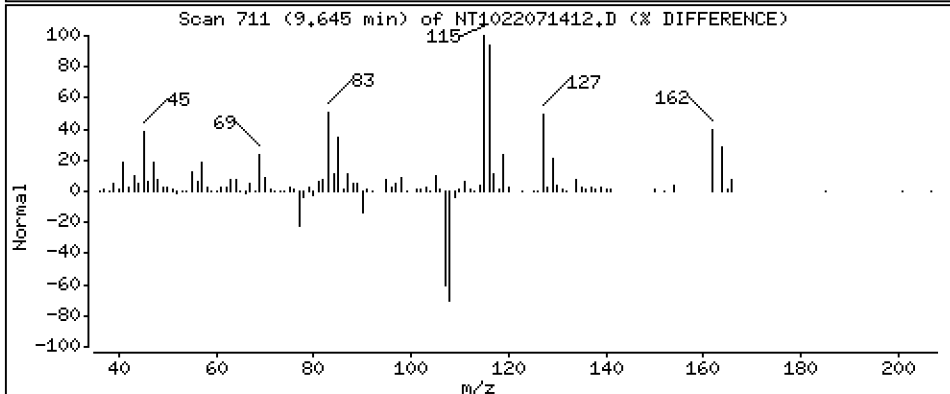
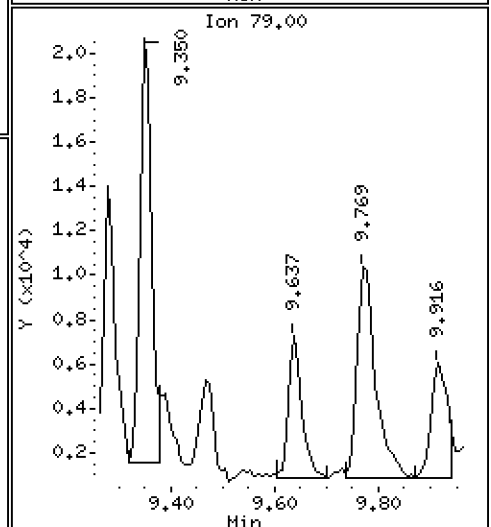
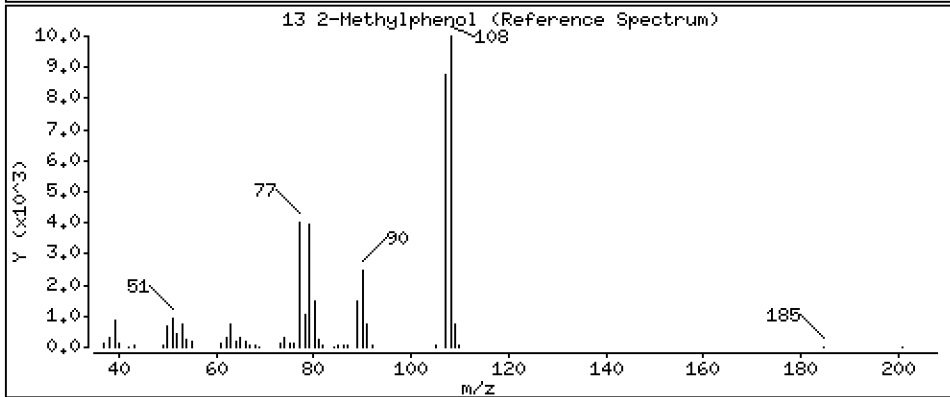
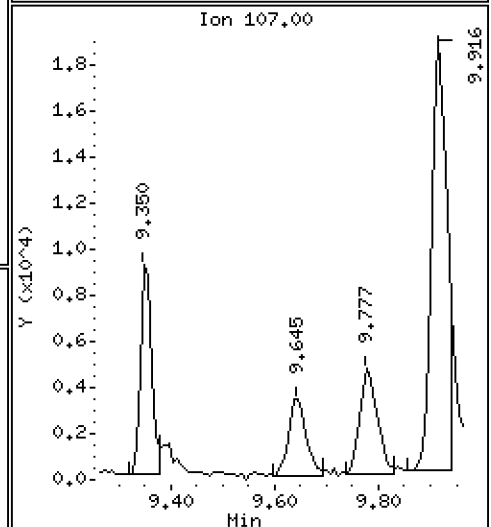
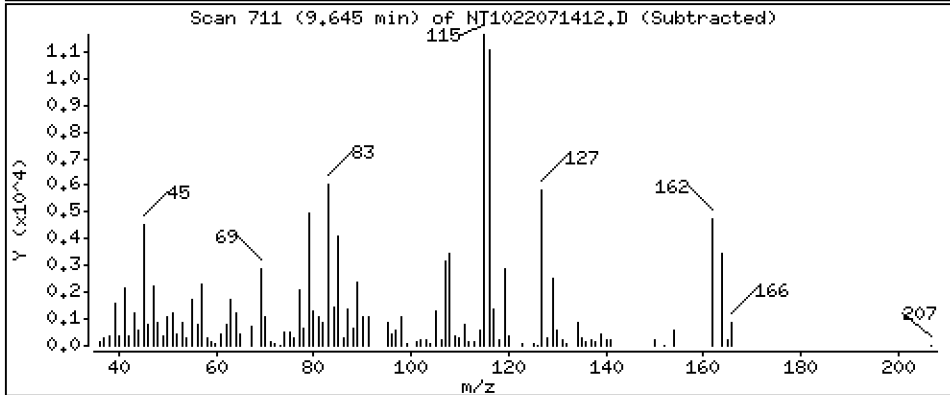
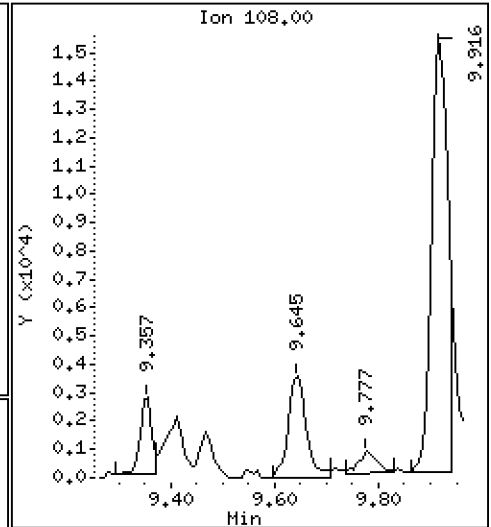
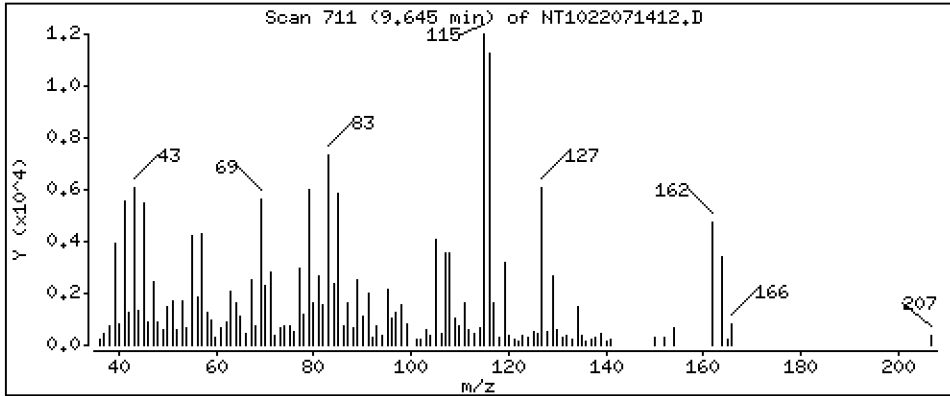
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.1307 ug/mL

13 2-Methylphenol



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

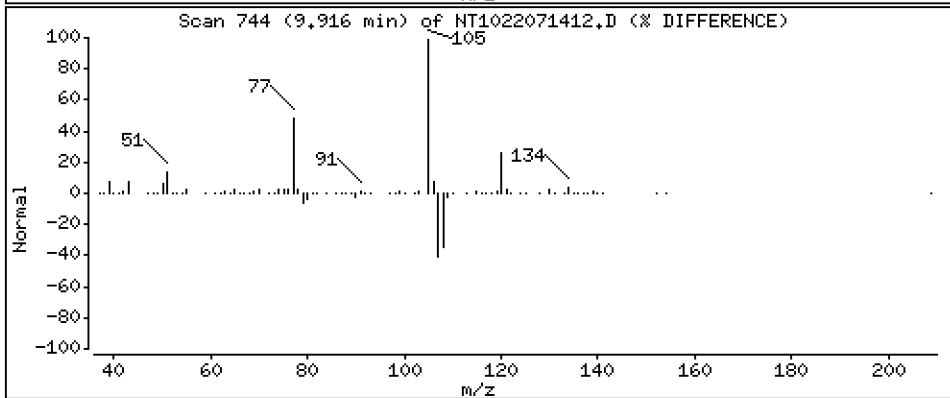
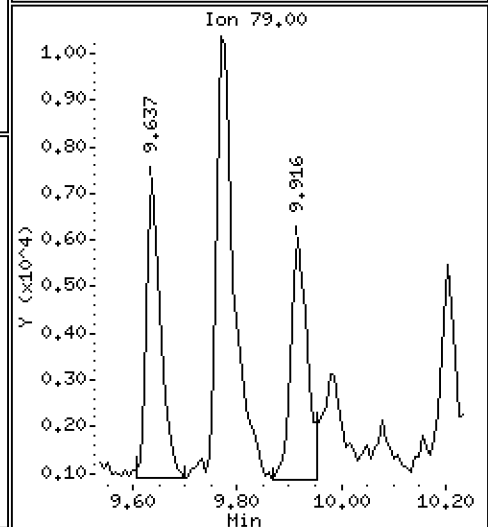
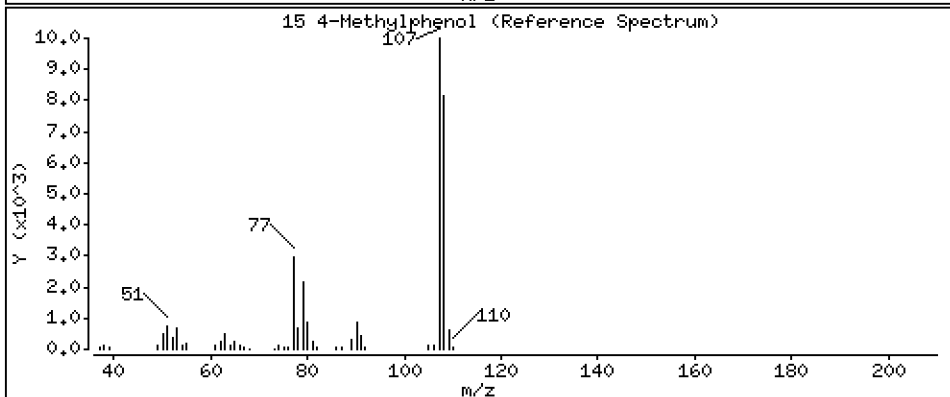
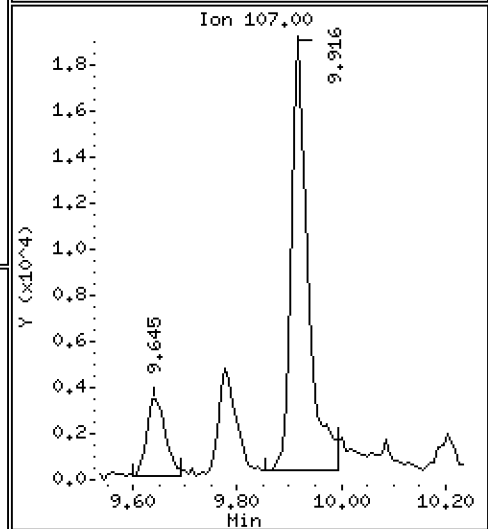
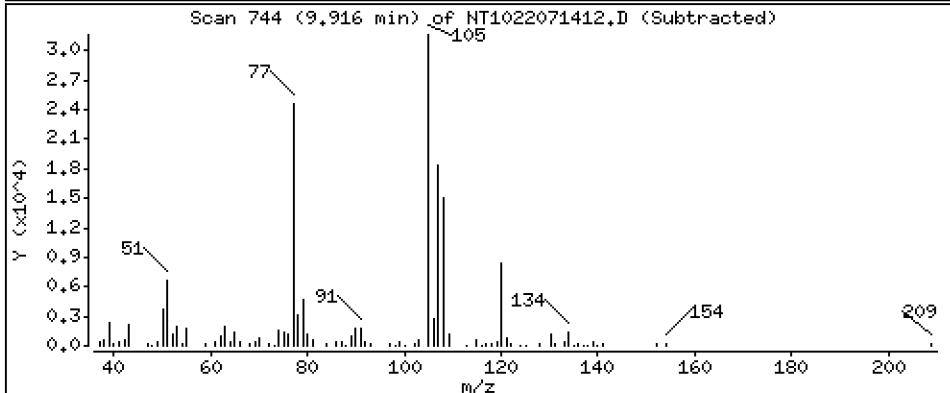
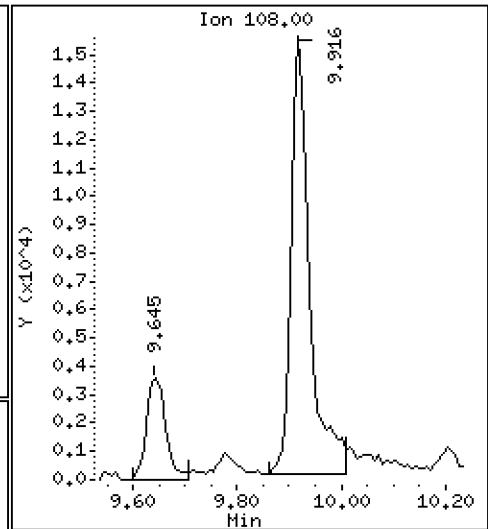
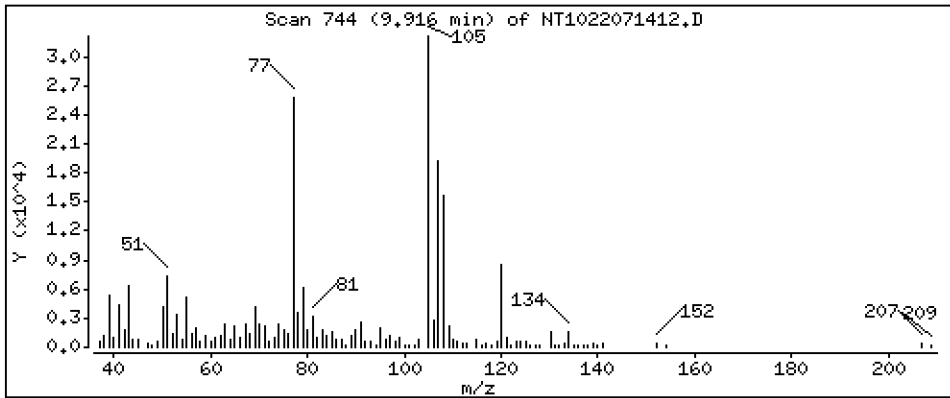
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.5297 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

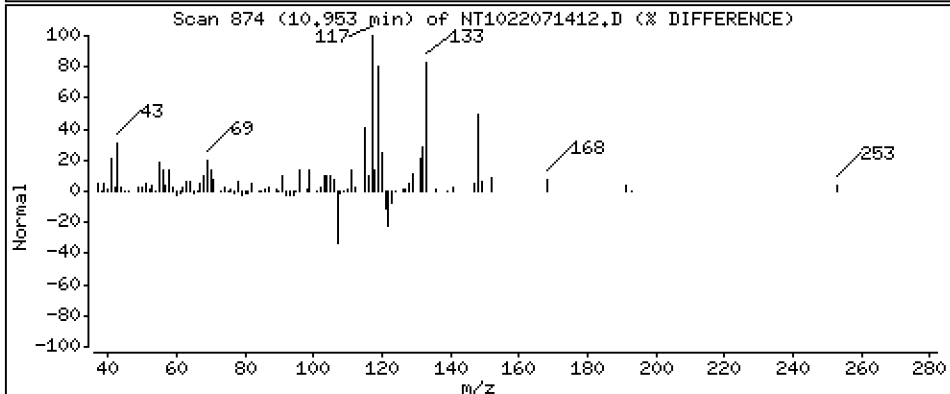
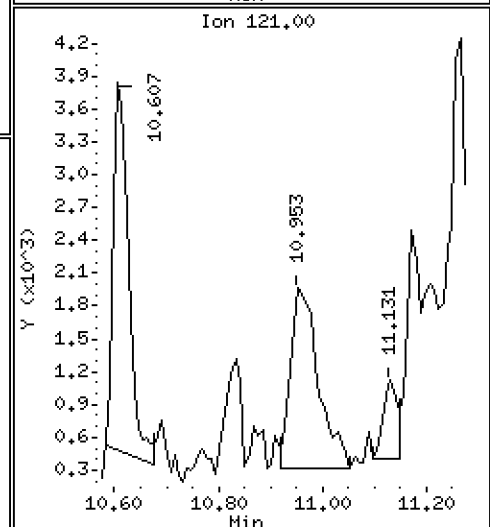
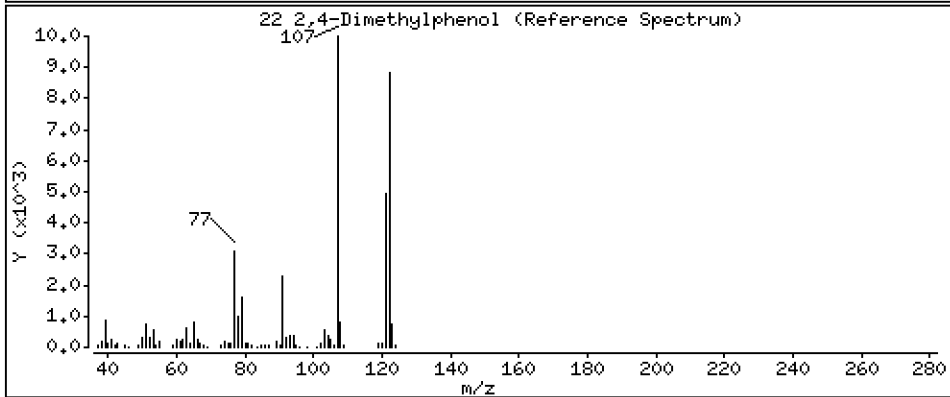
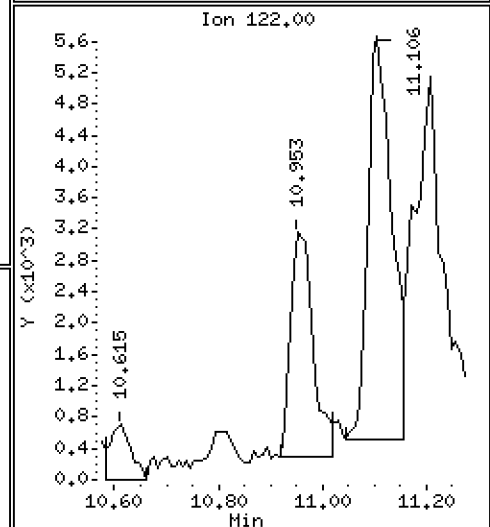
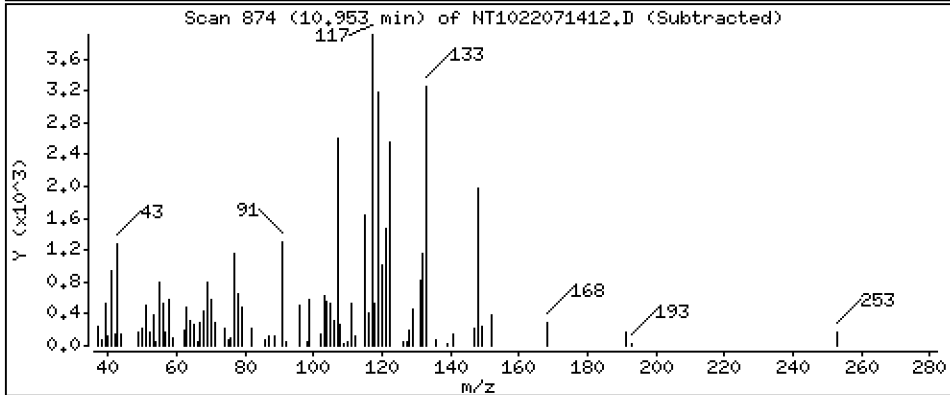
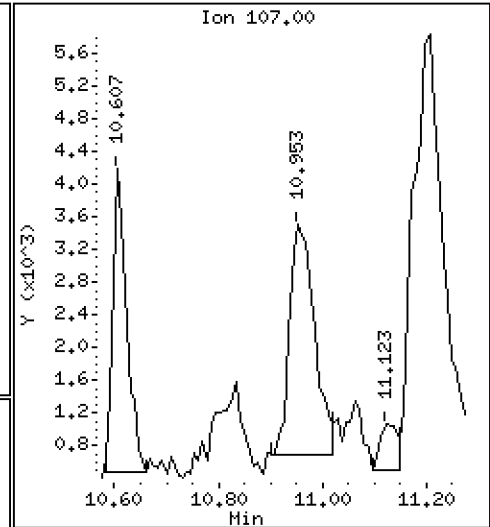
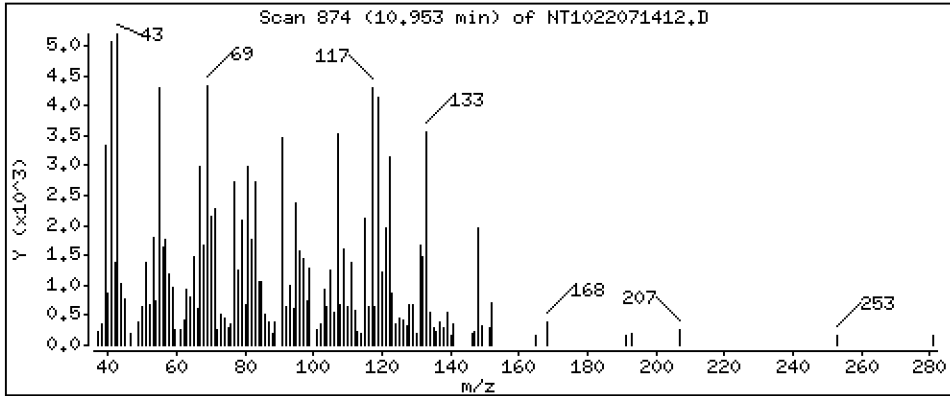
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,1324 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

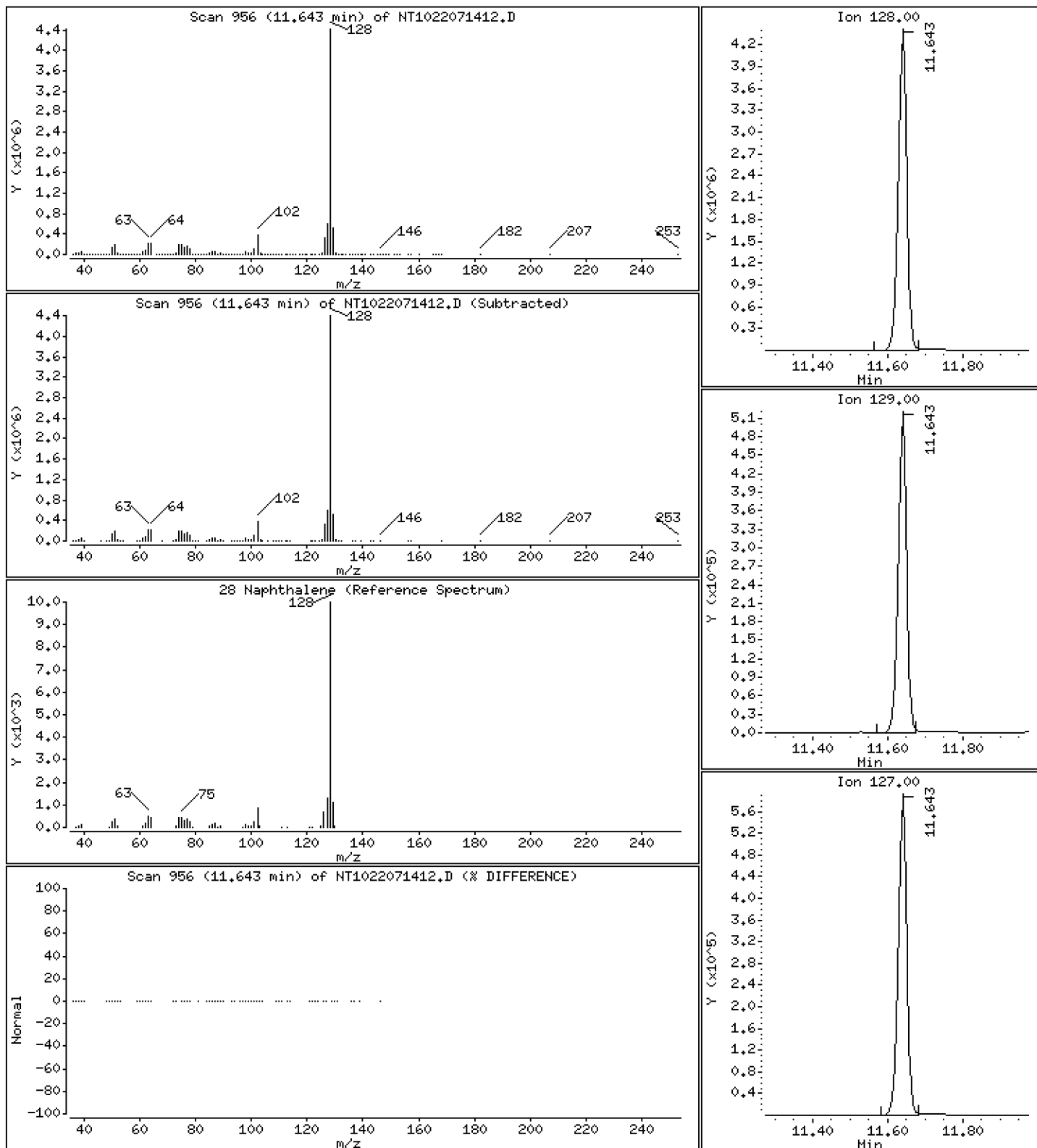
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 31,63 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 2200019-06

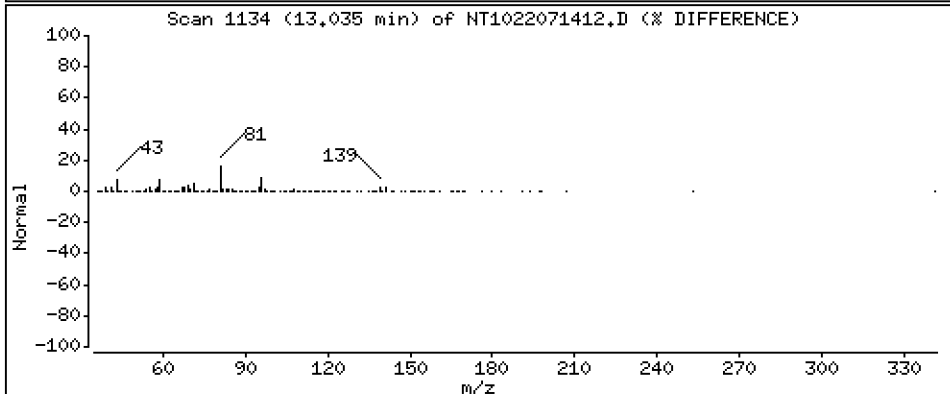
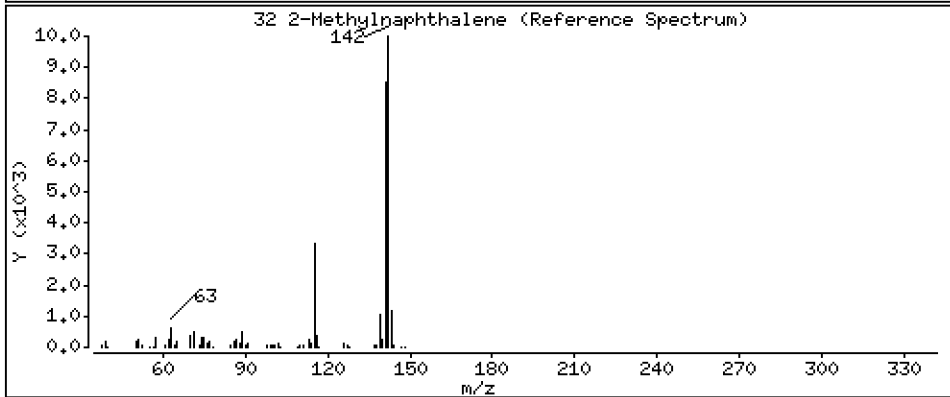
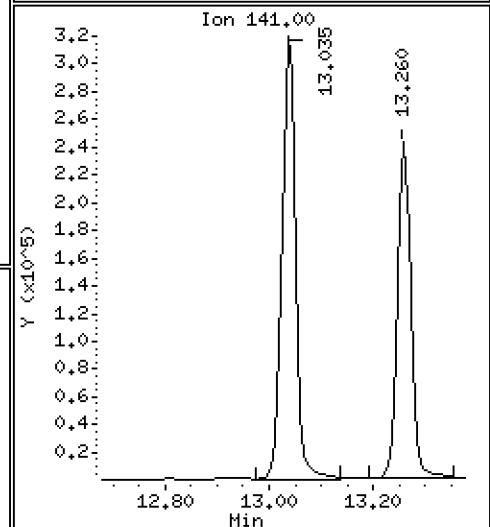
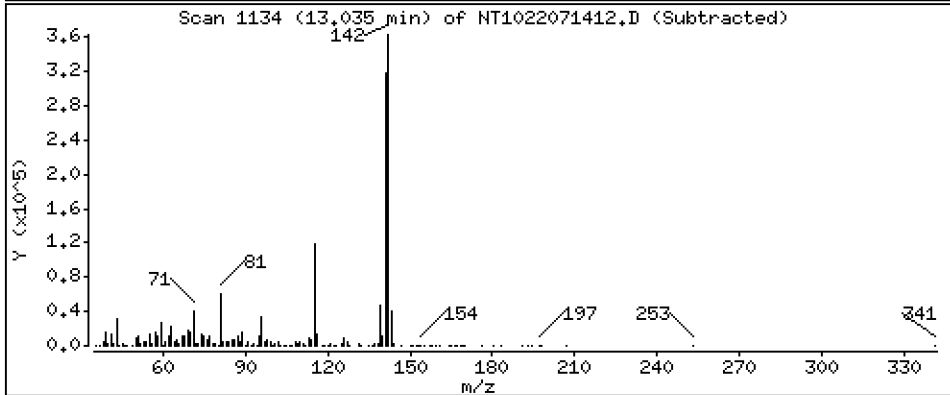
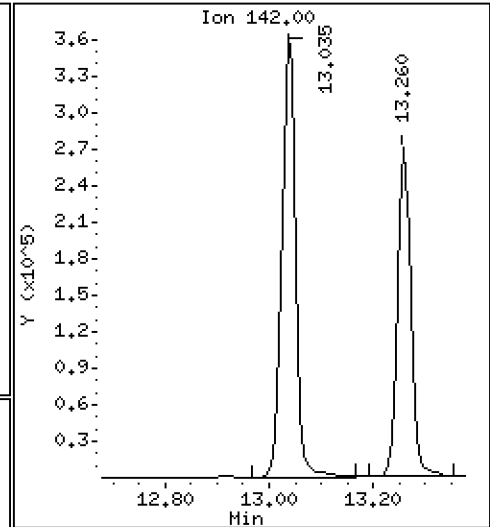
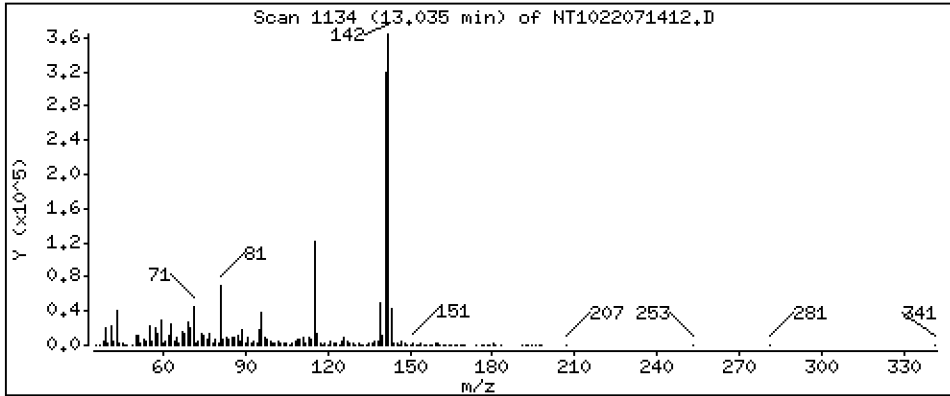
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 2,938 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 2200019-06

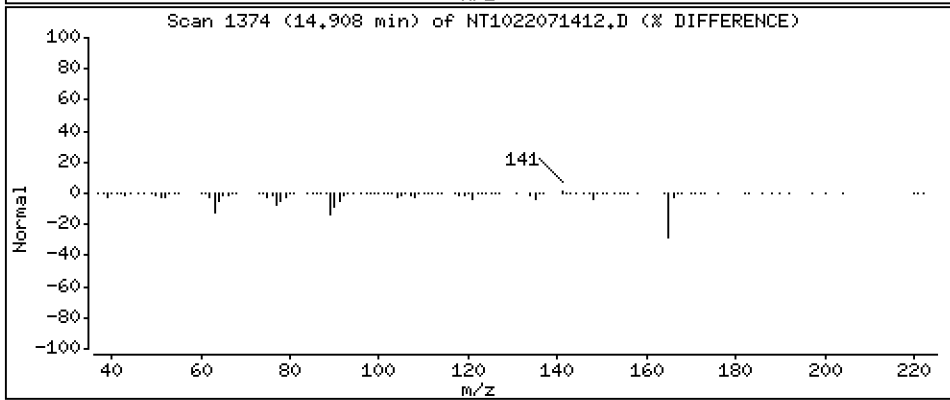
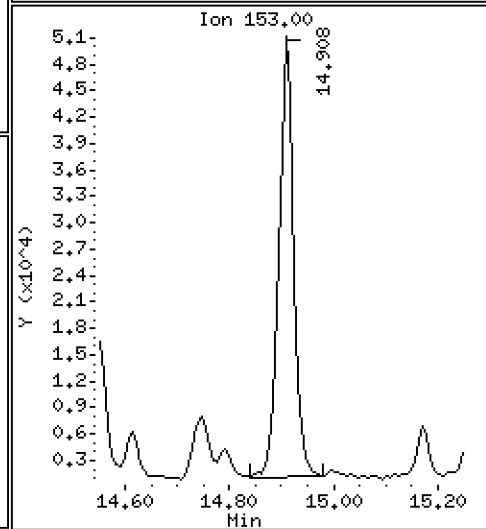
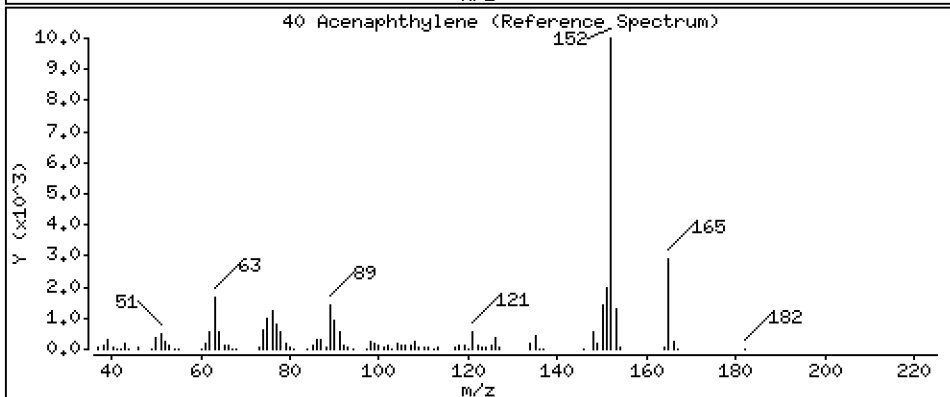
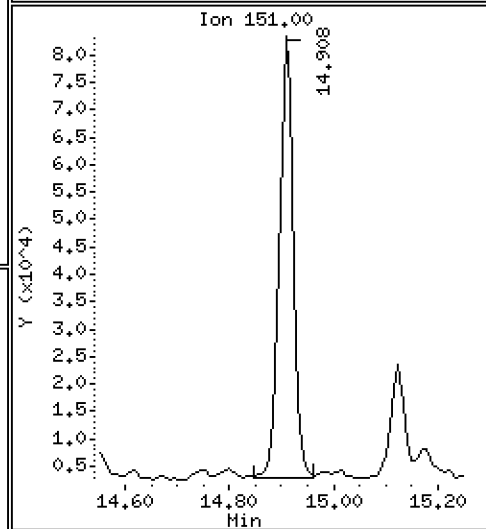
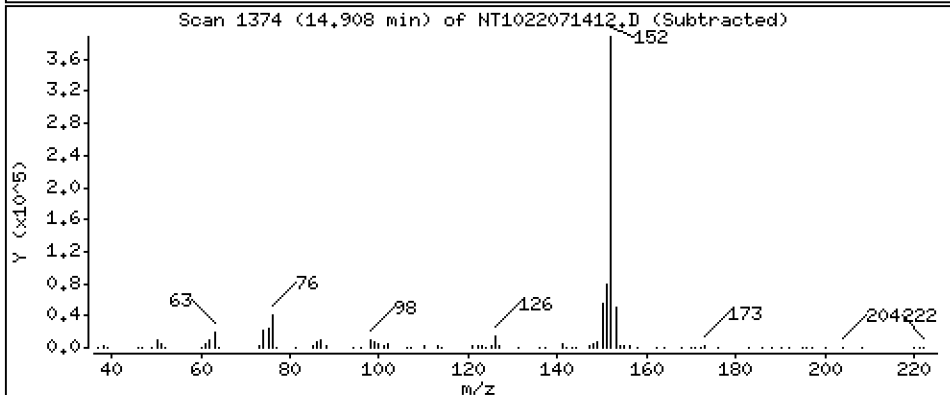
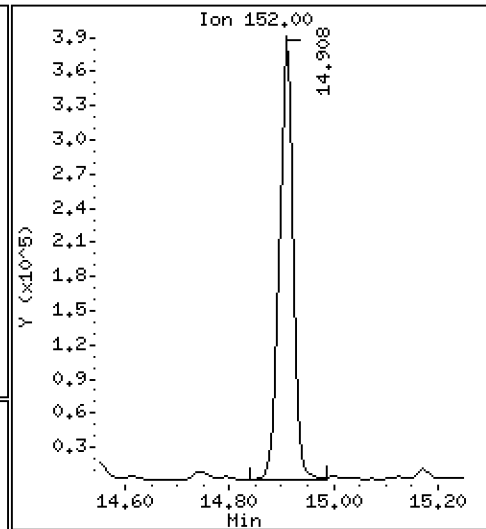
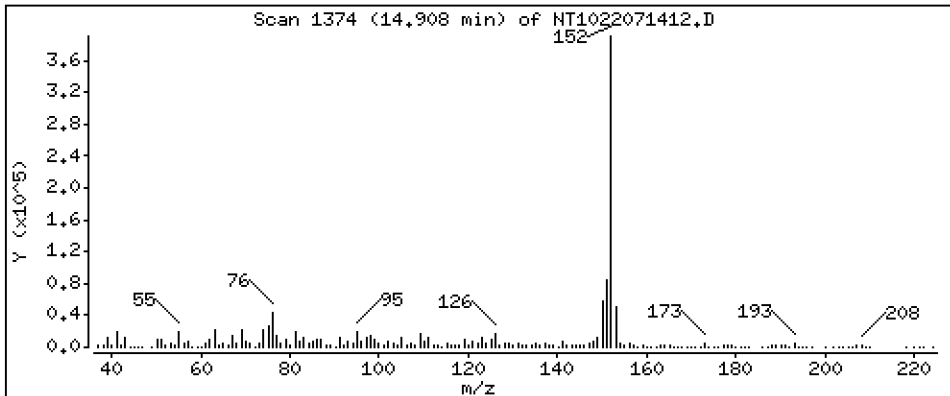
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,202 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

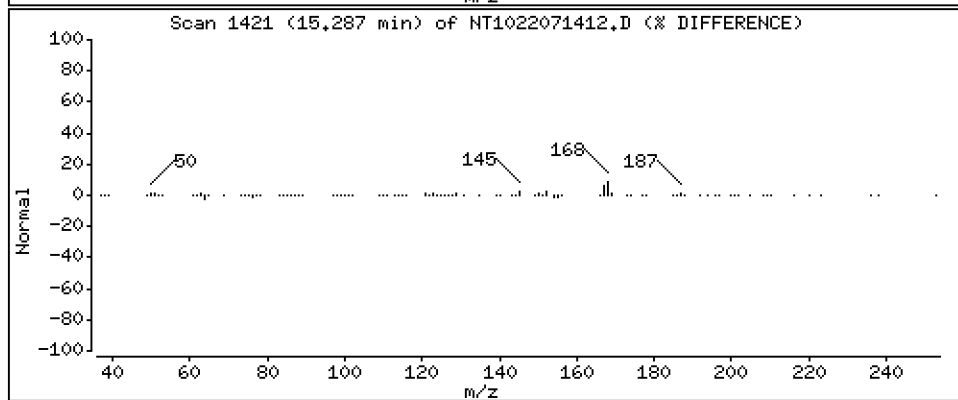
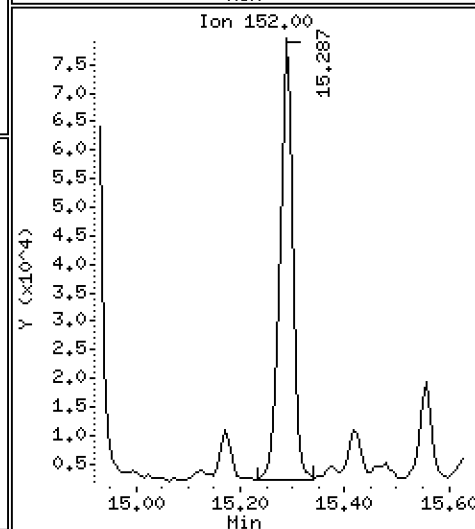
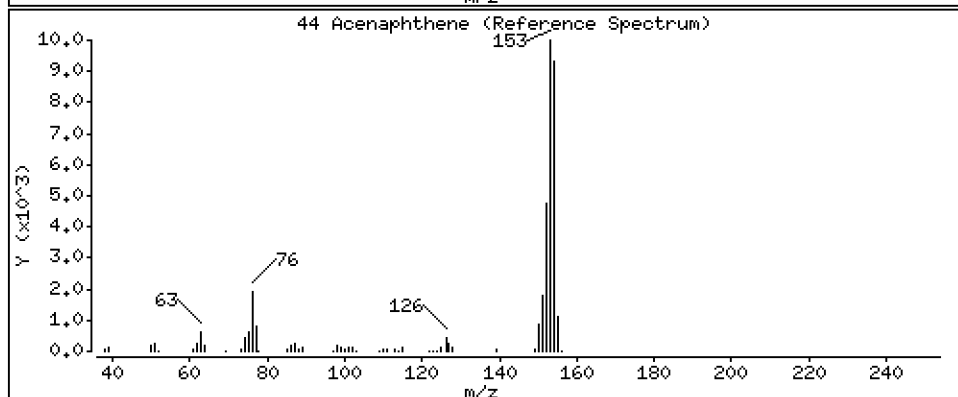
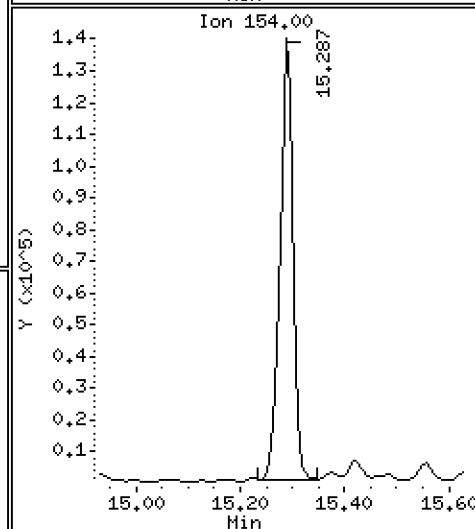
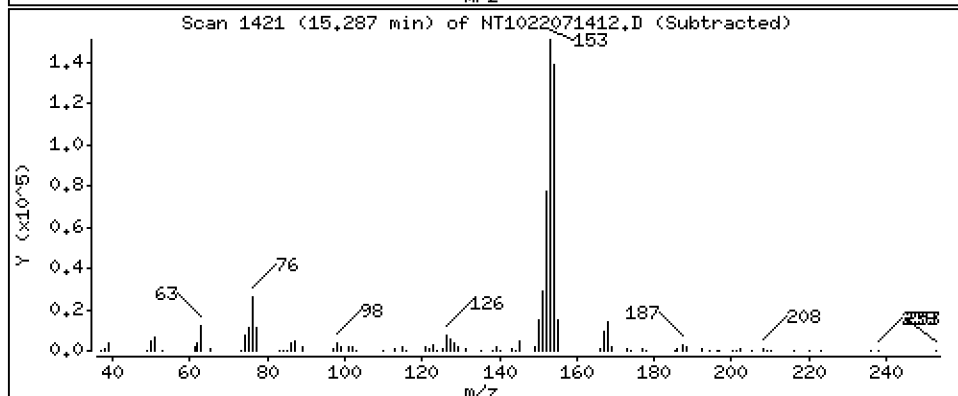
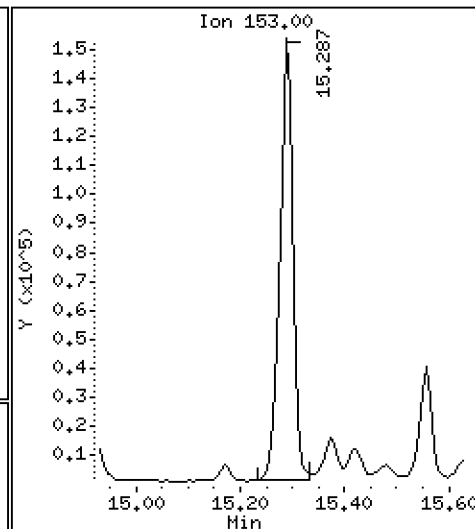
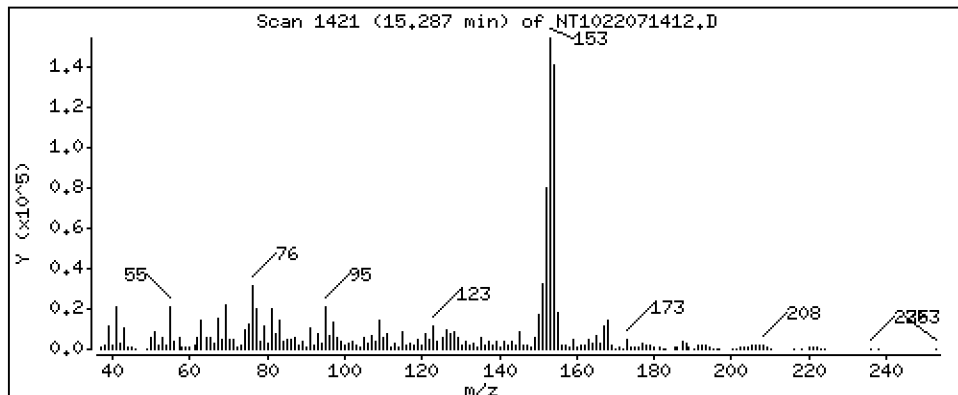
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 3,139 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 2200019-06

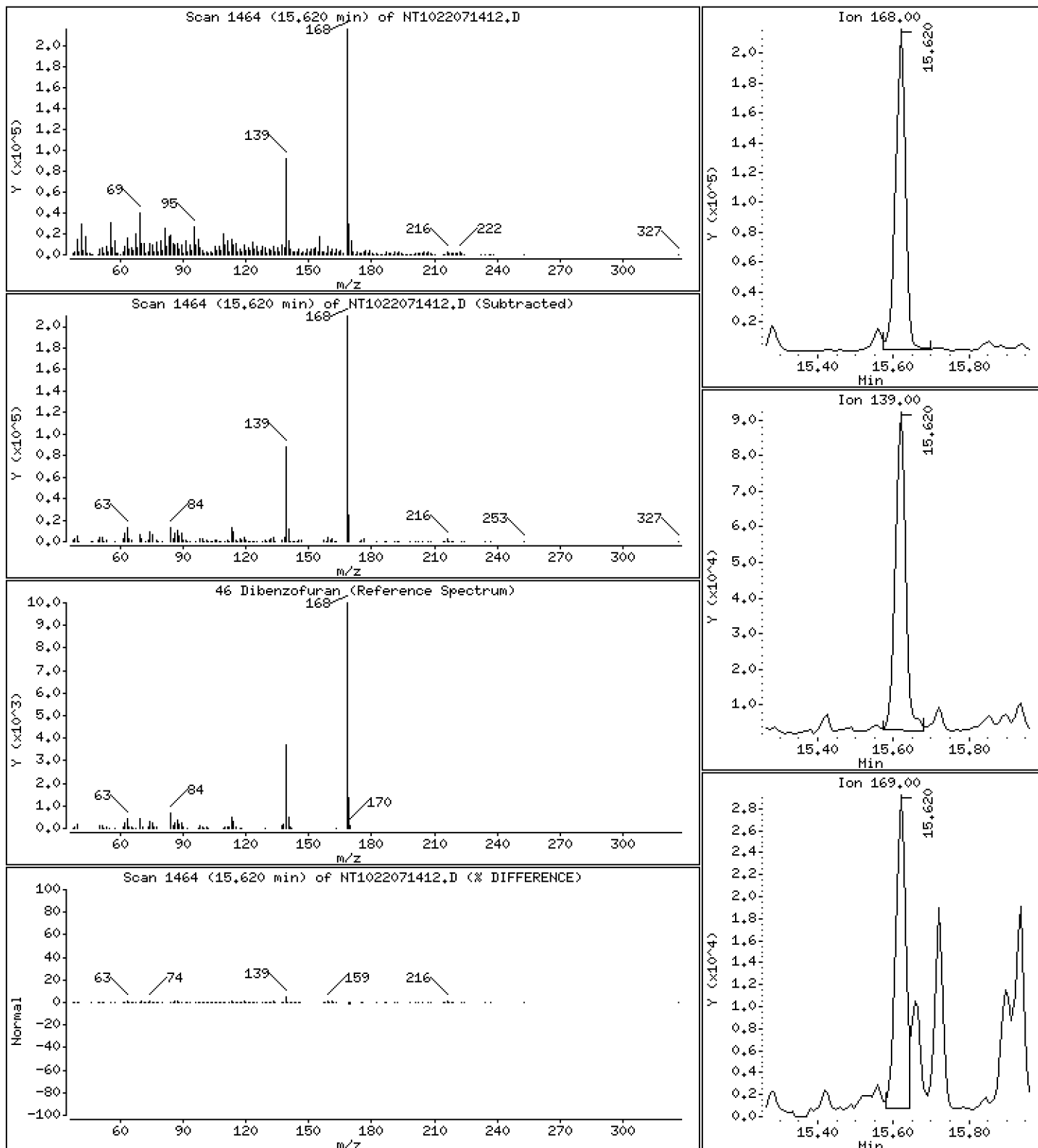
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 2,877 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

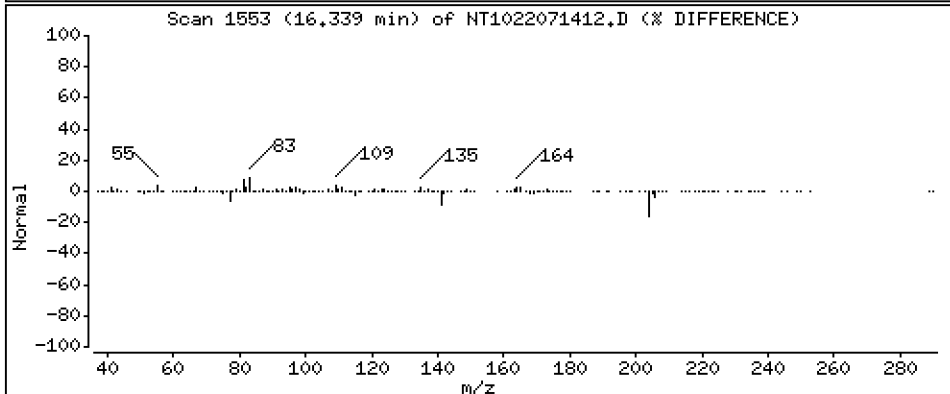
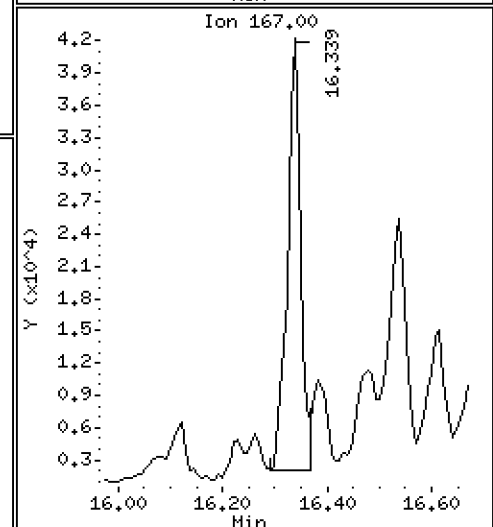
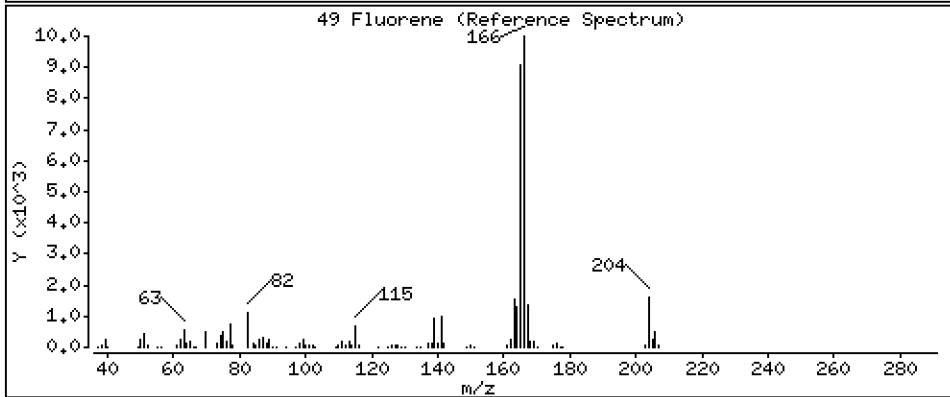
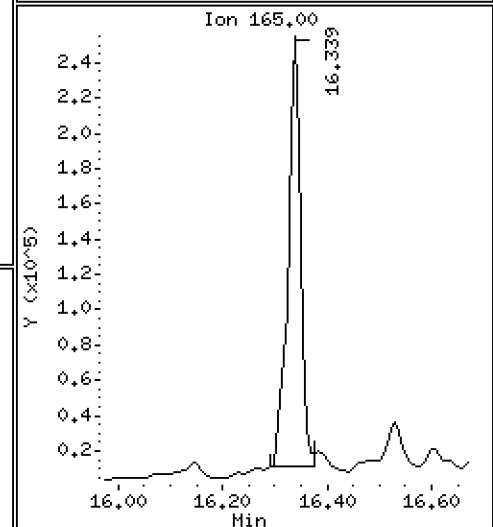
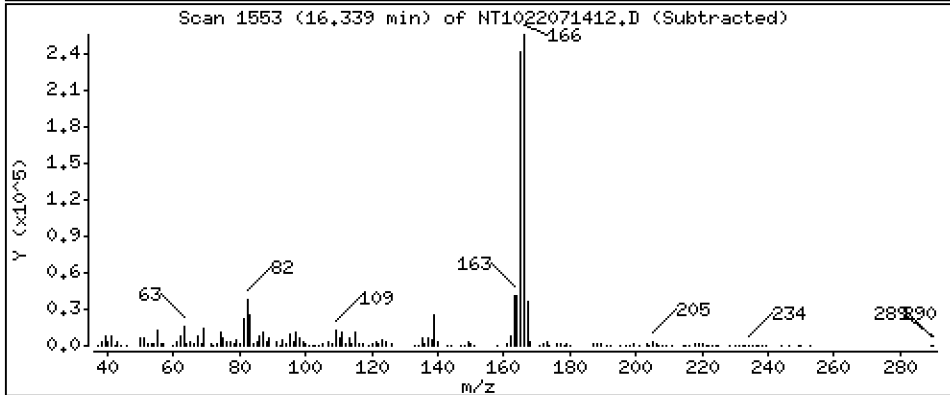
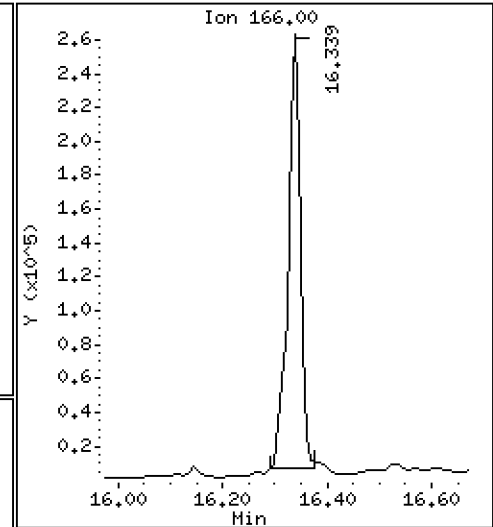
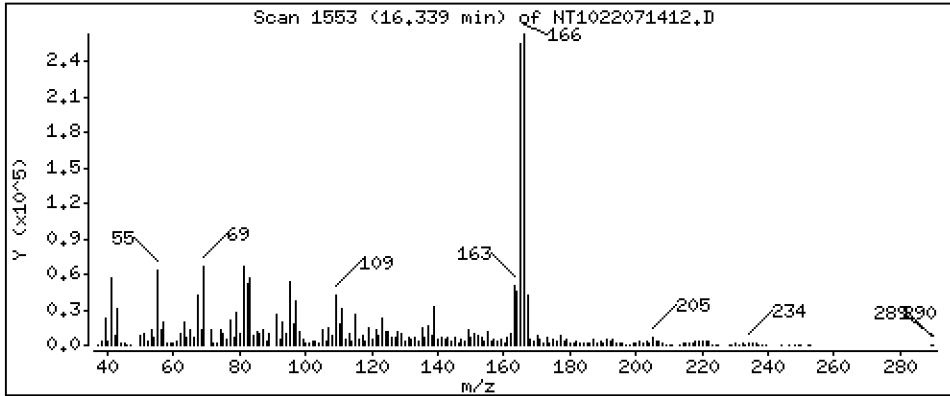
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 3,024 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 2200019-06

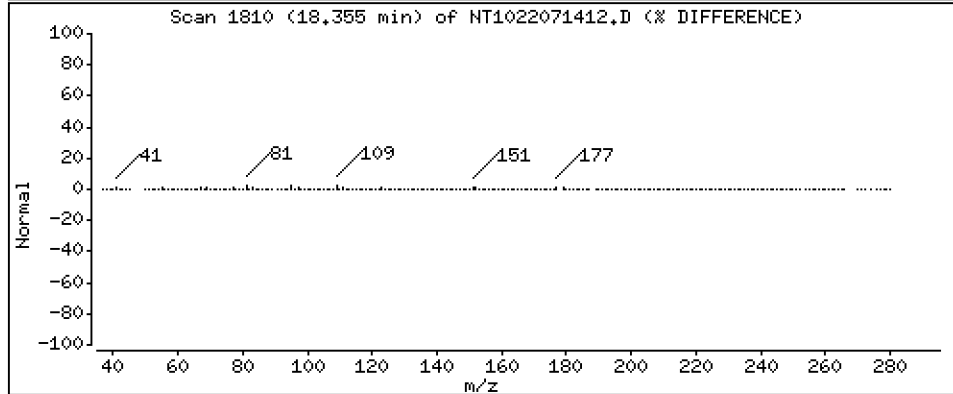
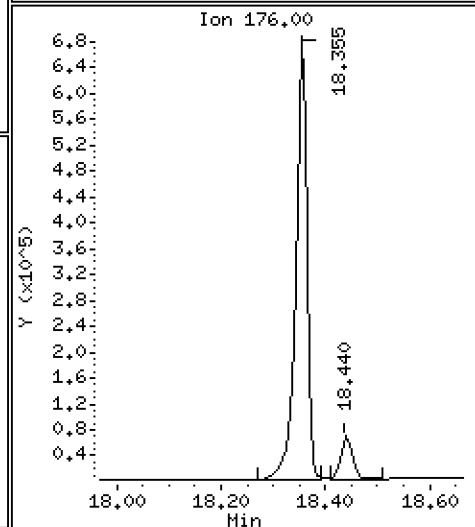
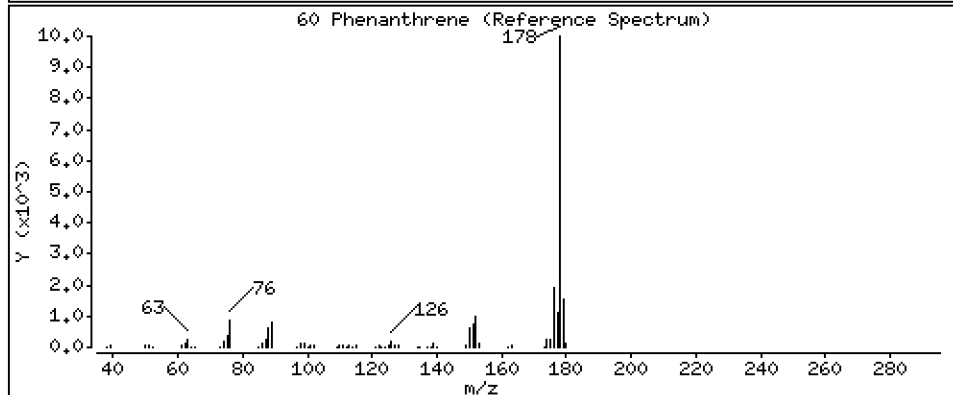
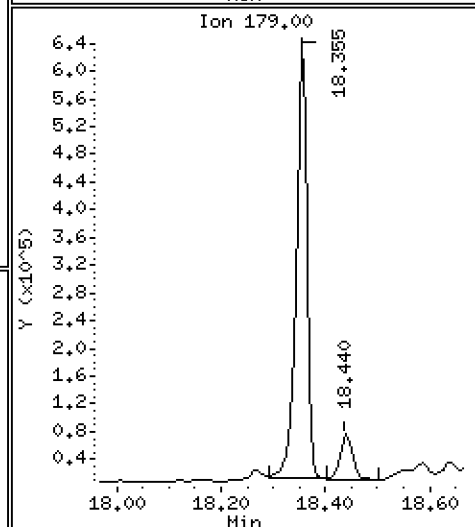
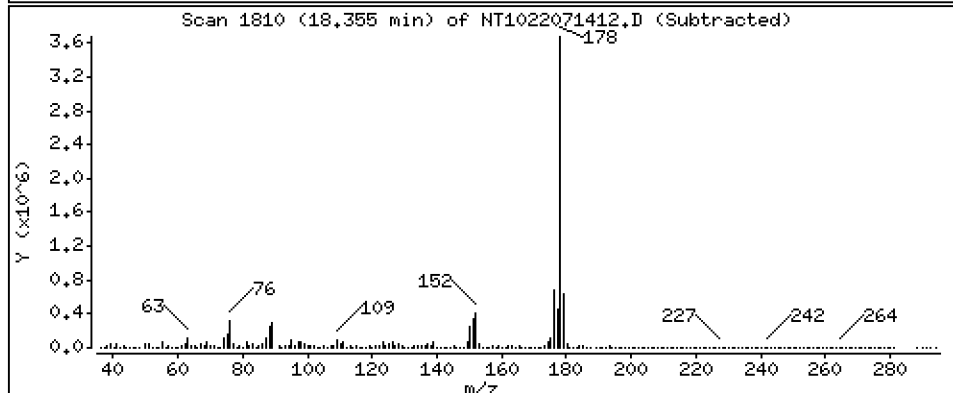
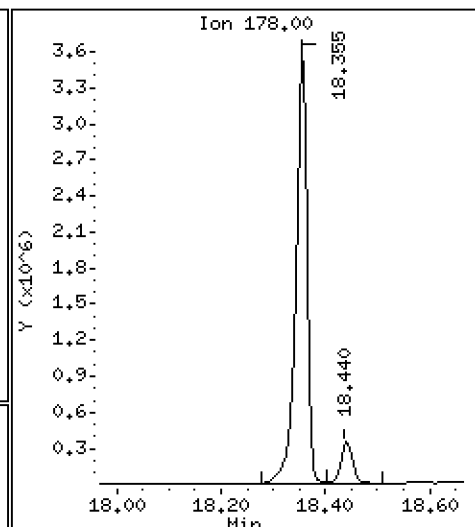
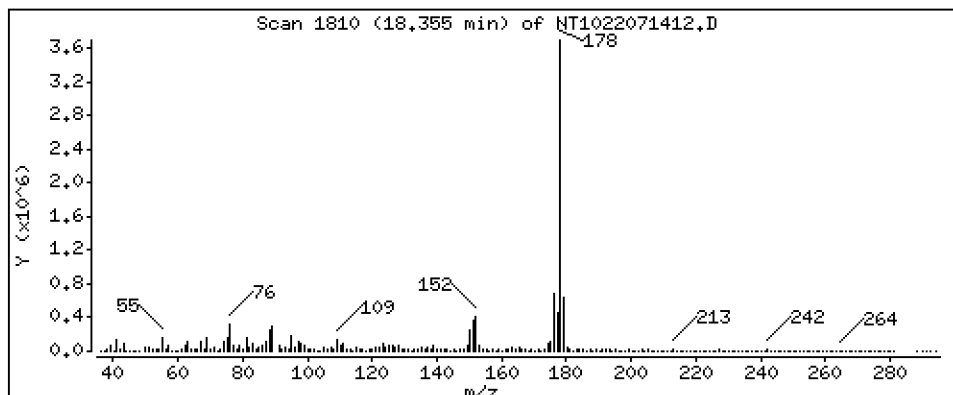
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 93,93 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

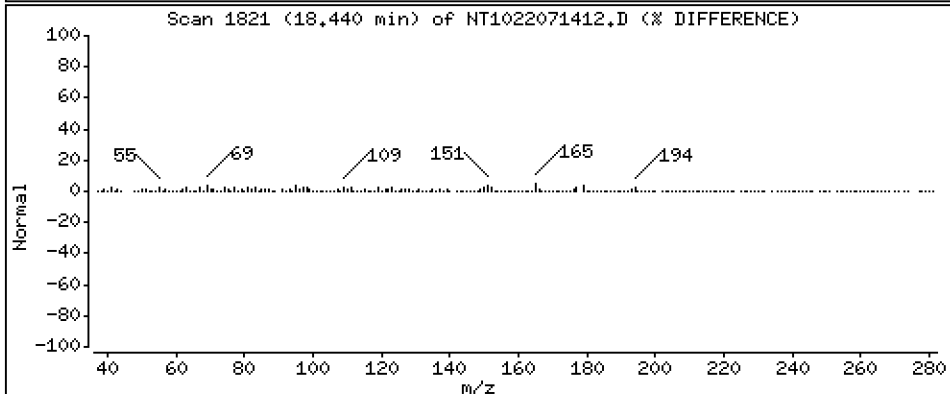
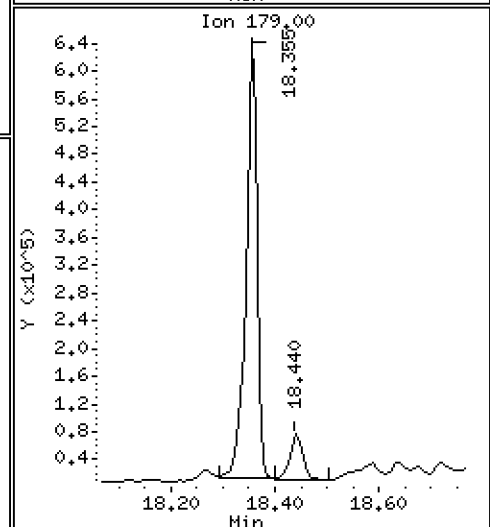
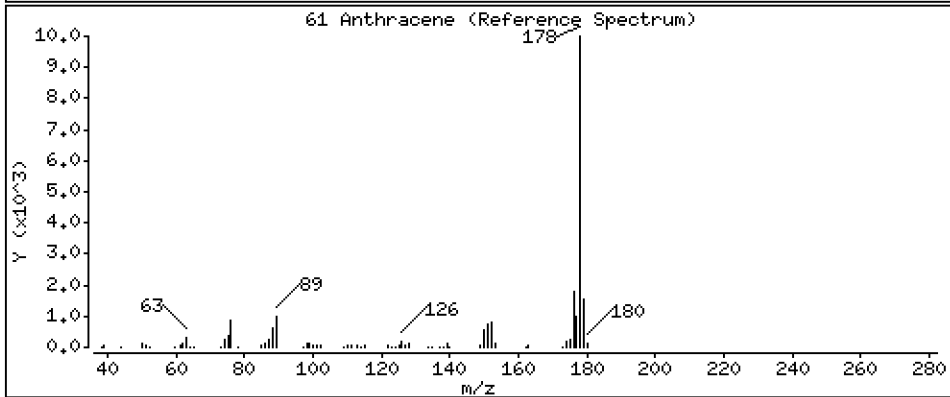
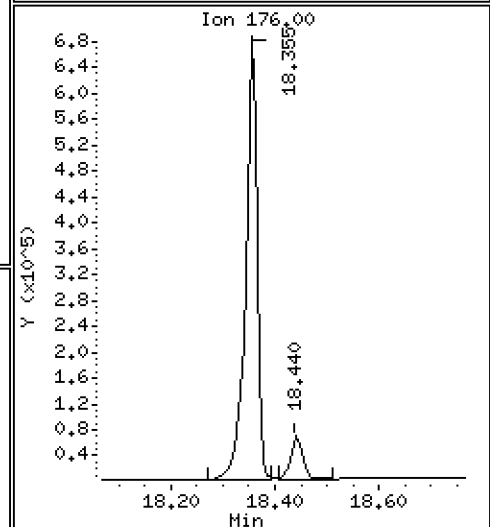
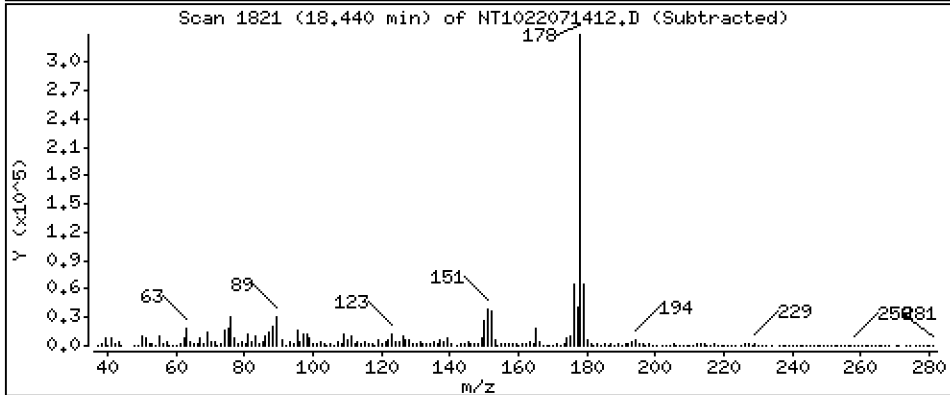
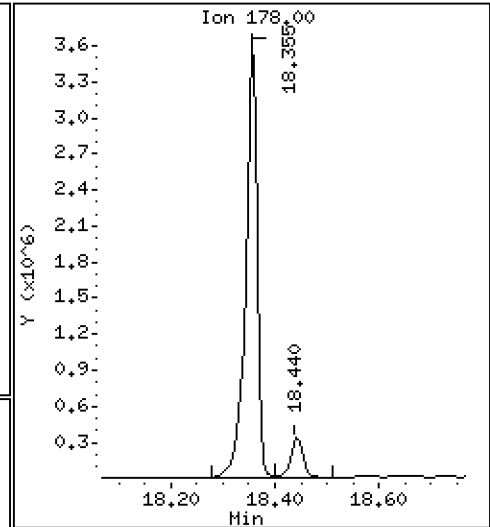
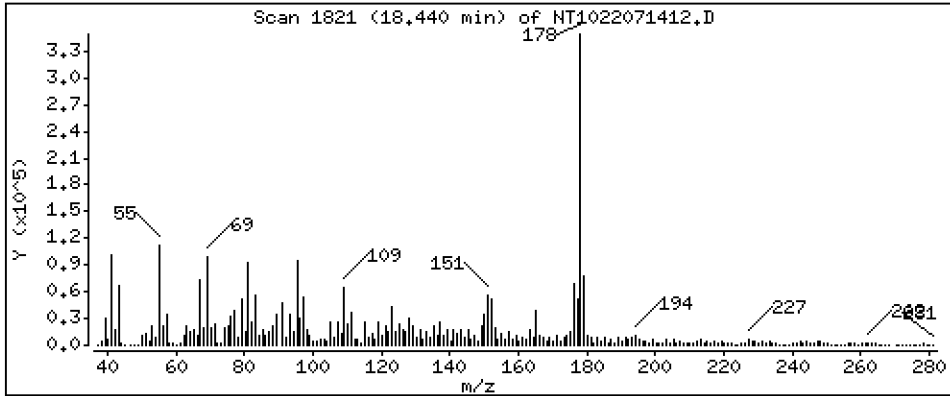
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 8,920 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

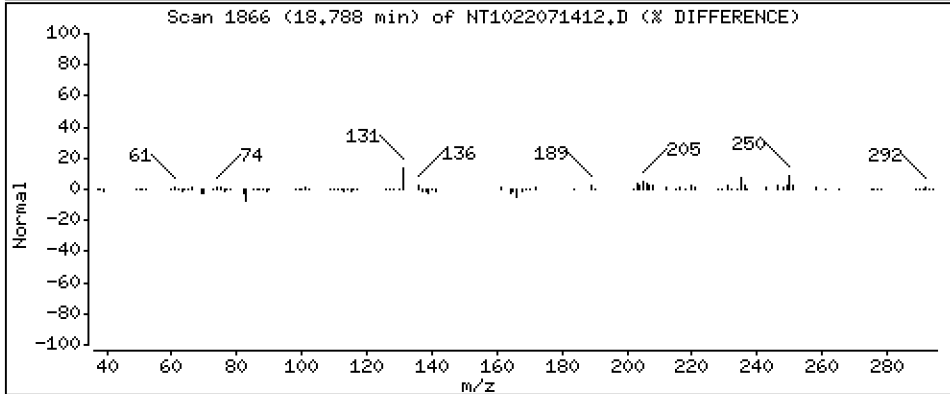
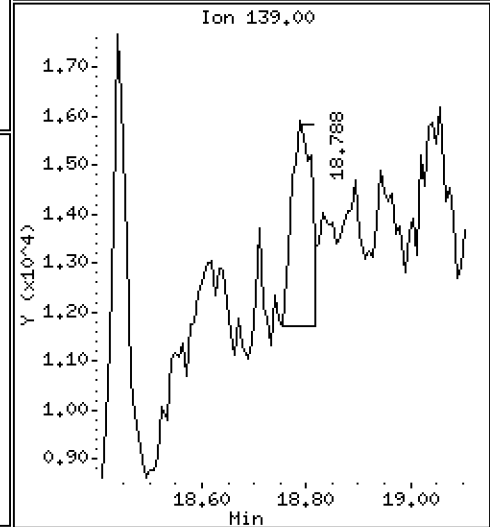
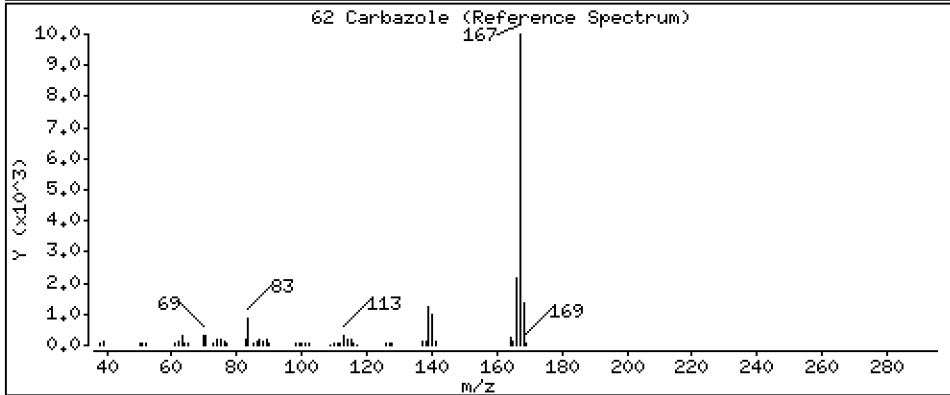
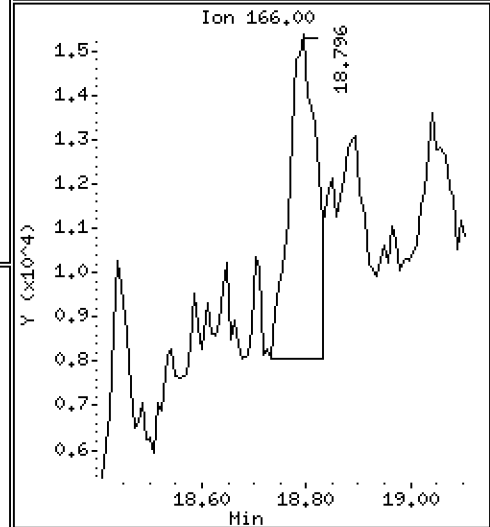
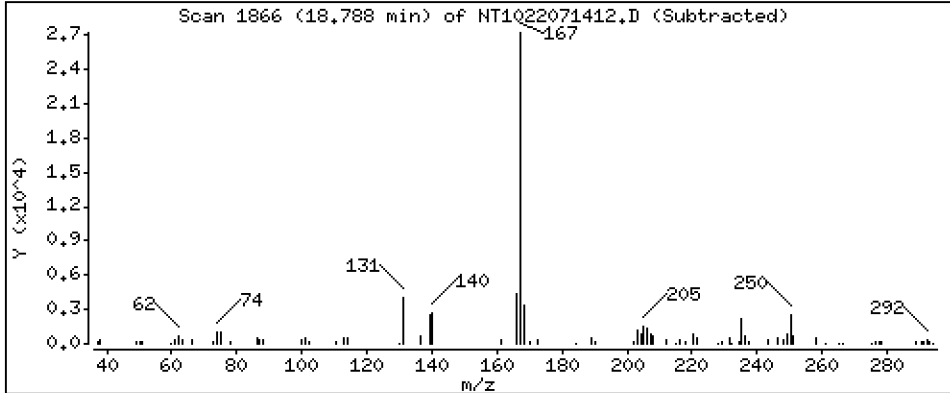
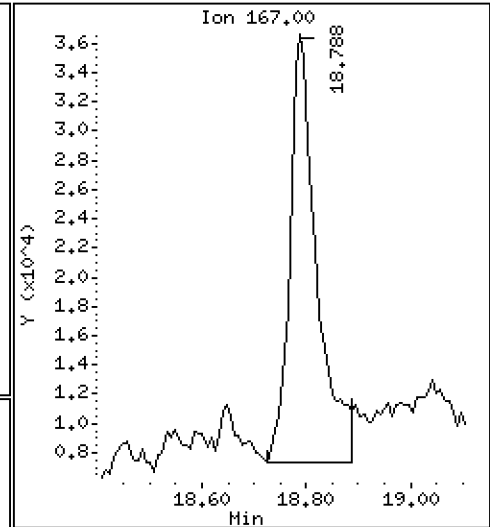
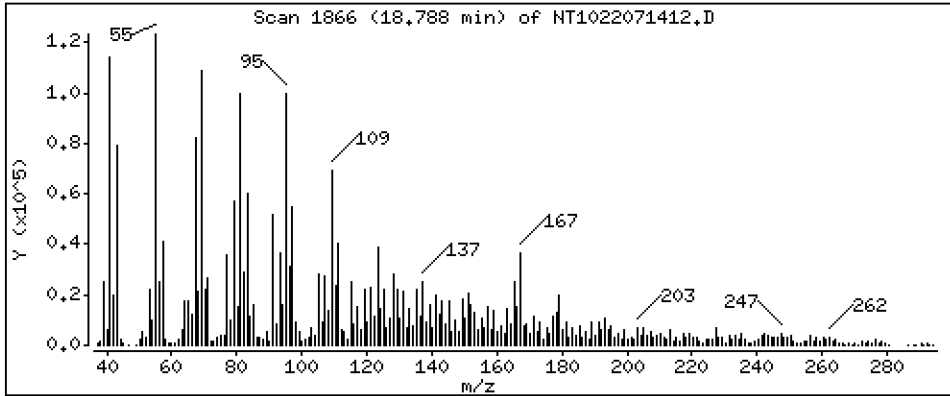
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 1,809 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 2200019-06

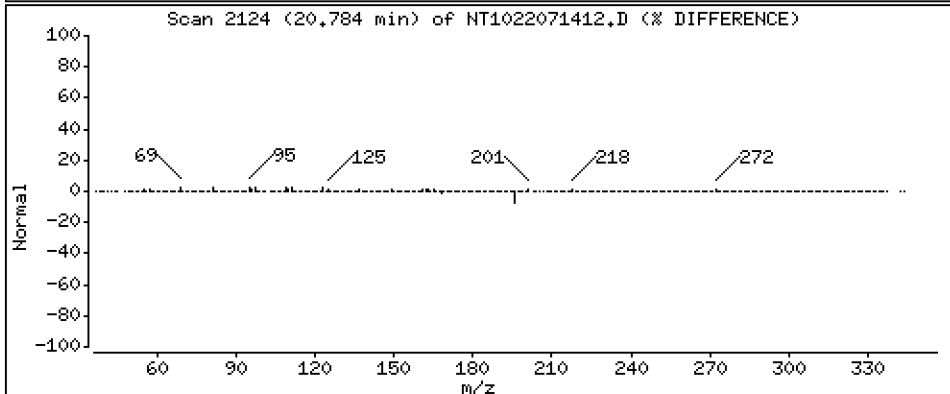
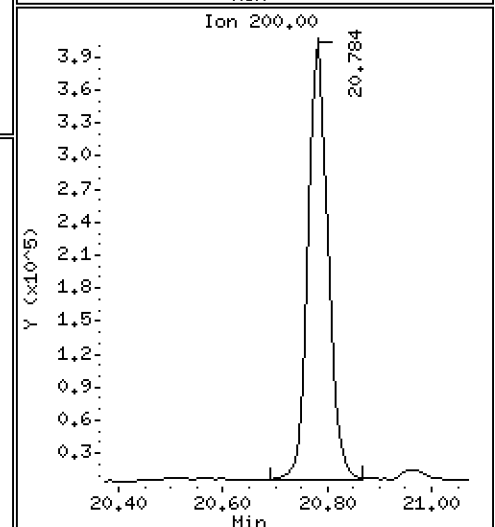
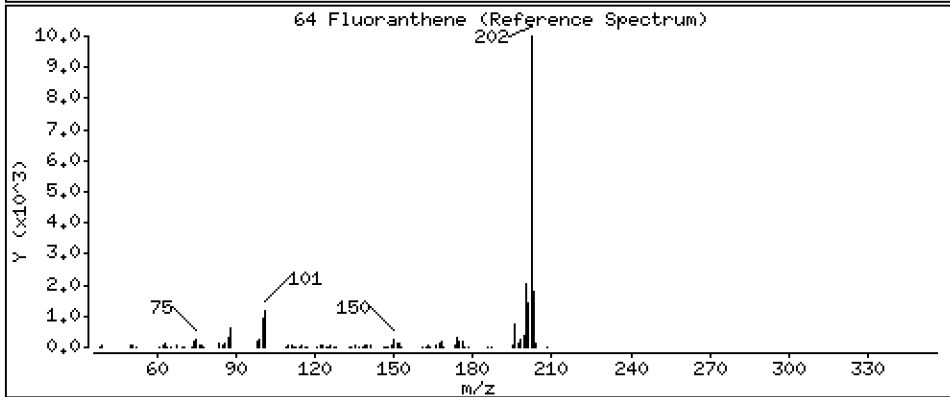
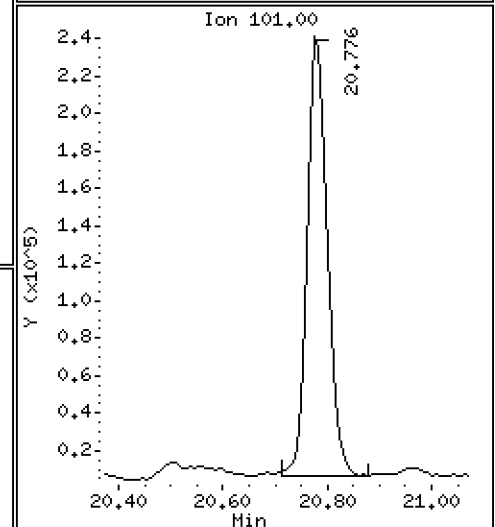
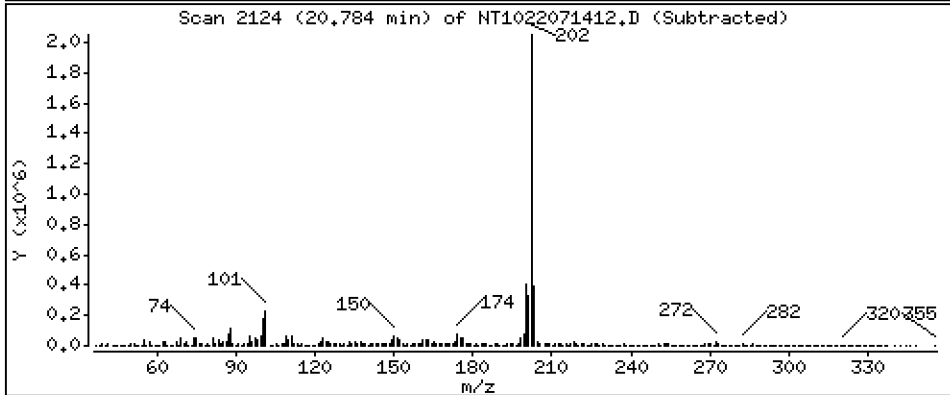
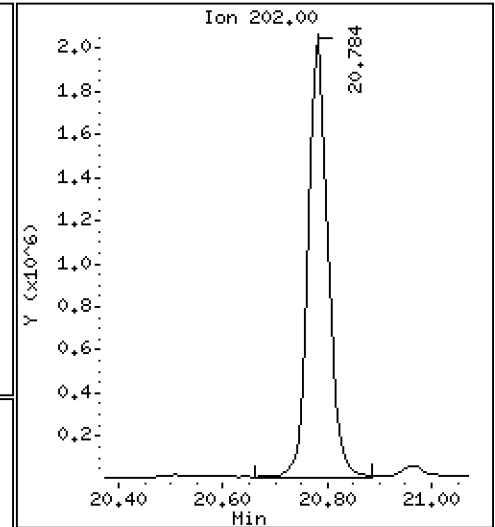
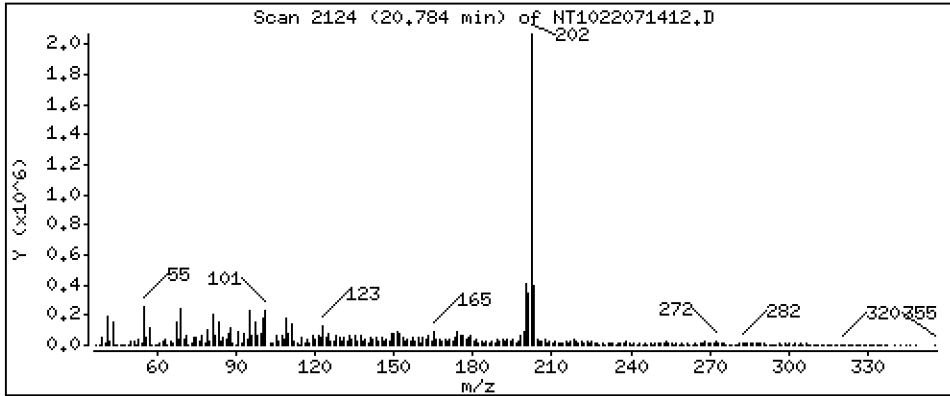
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 20,00 ug/mL

64 Fluoranthene



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

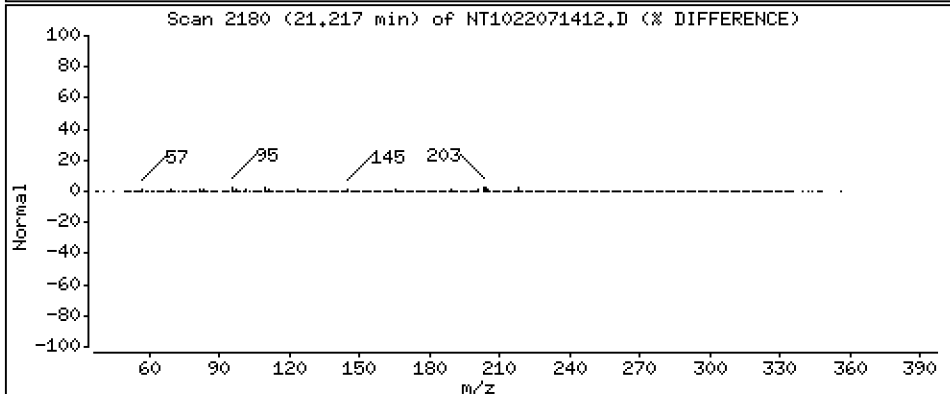
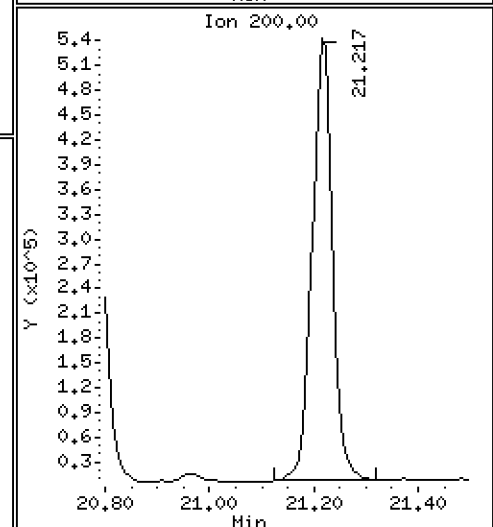
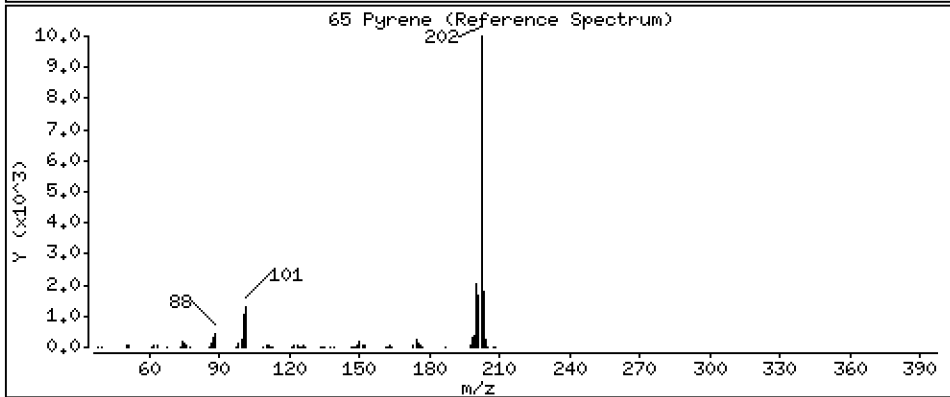
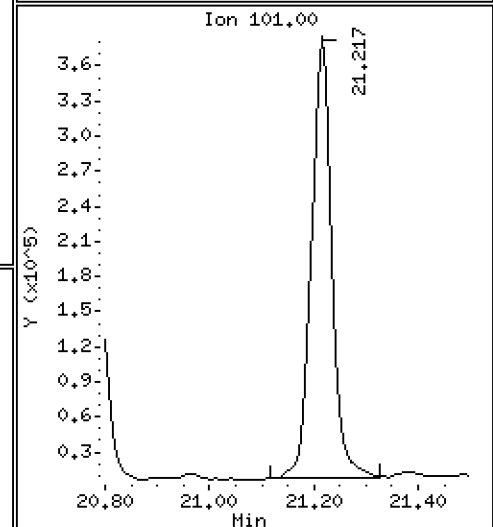
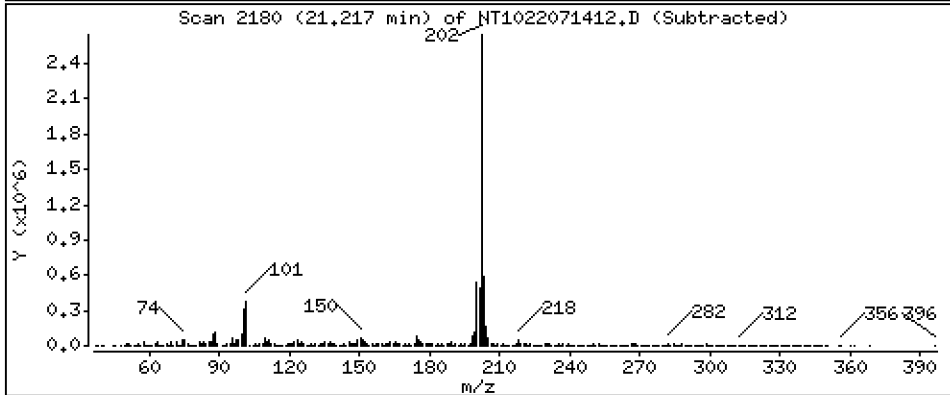
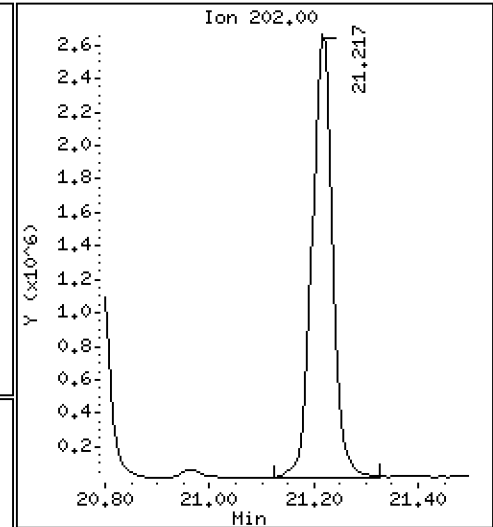
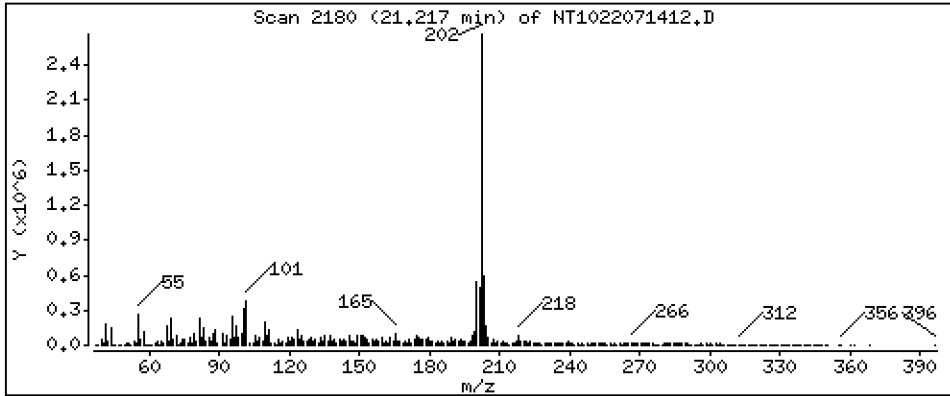
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 26,92 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 2200019-06

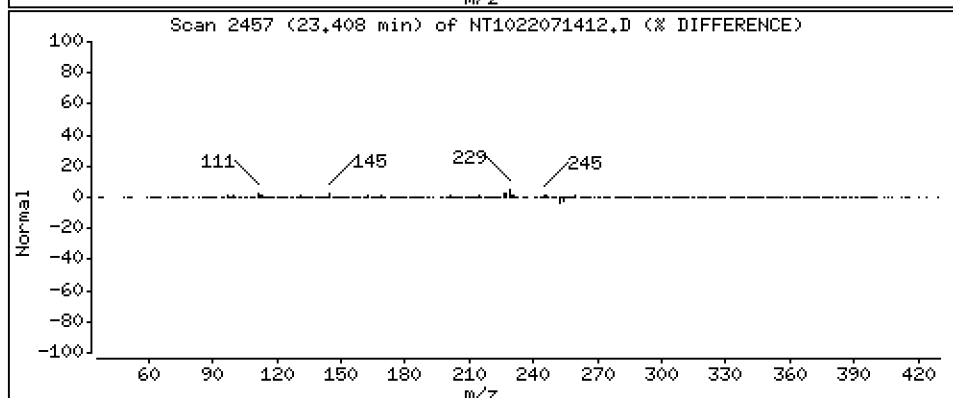
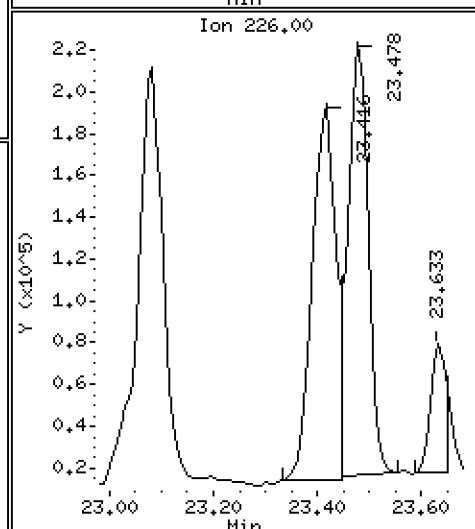
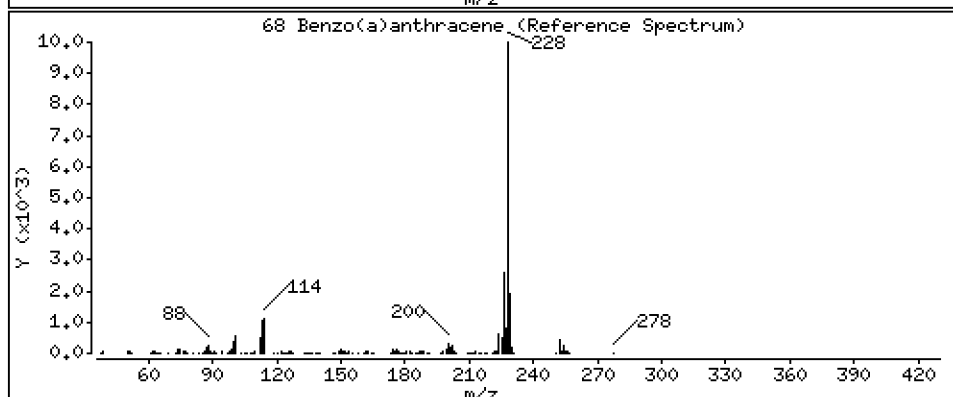
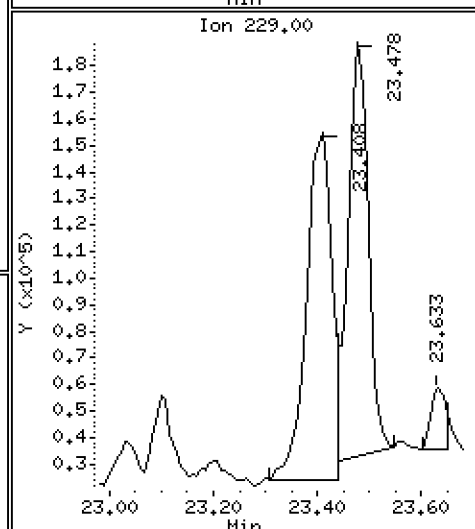
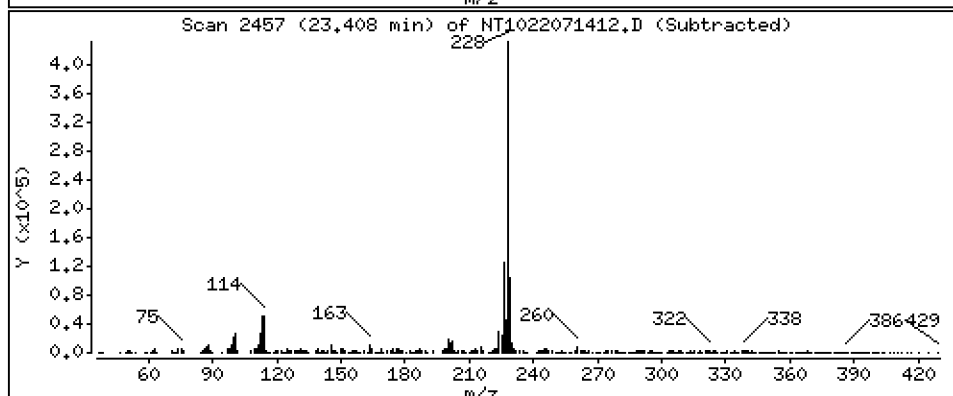
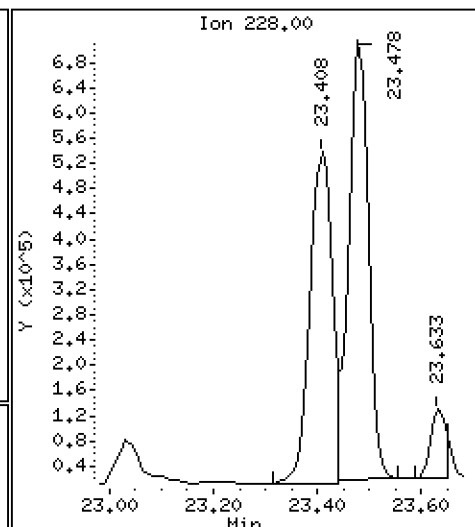
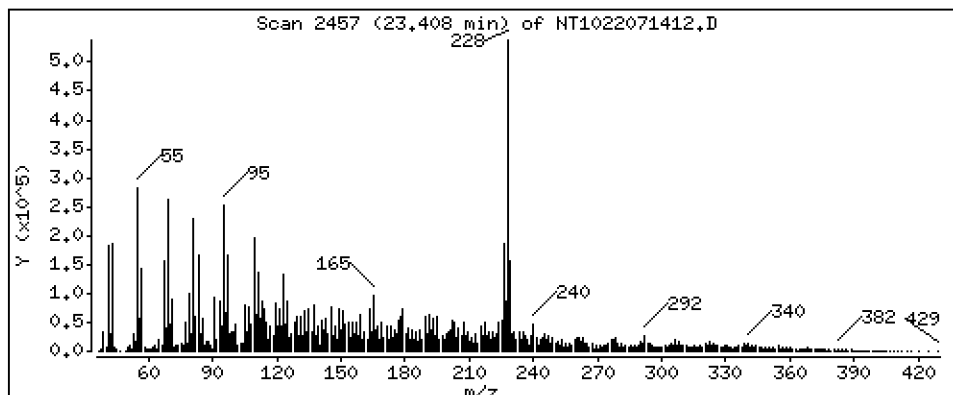
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 11,81 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 2200019-06

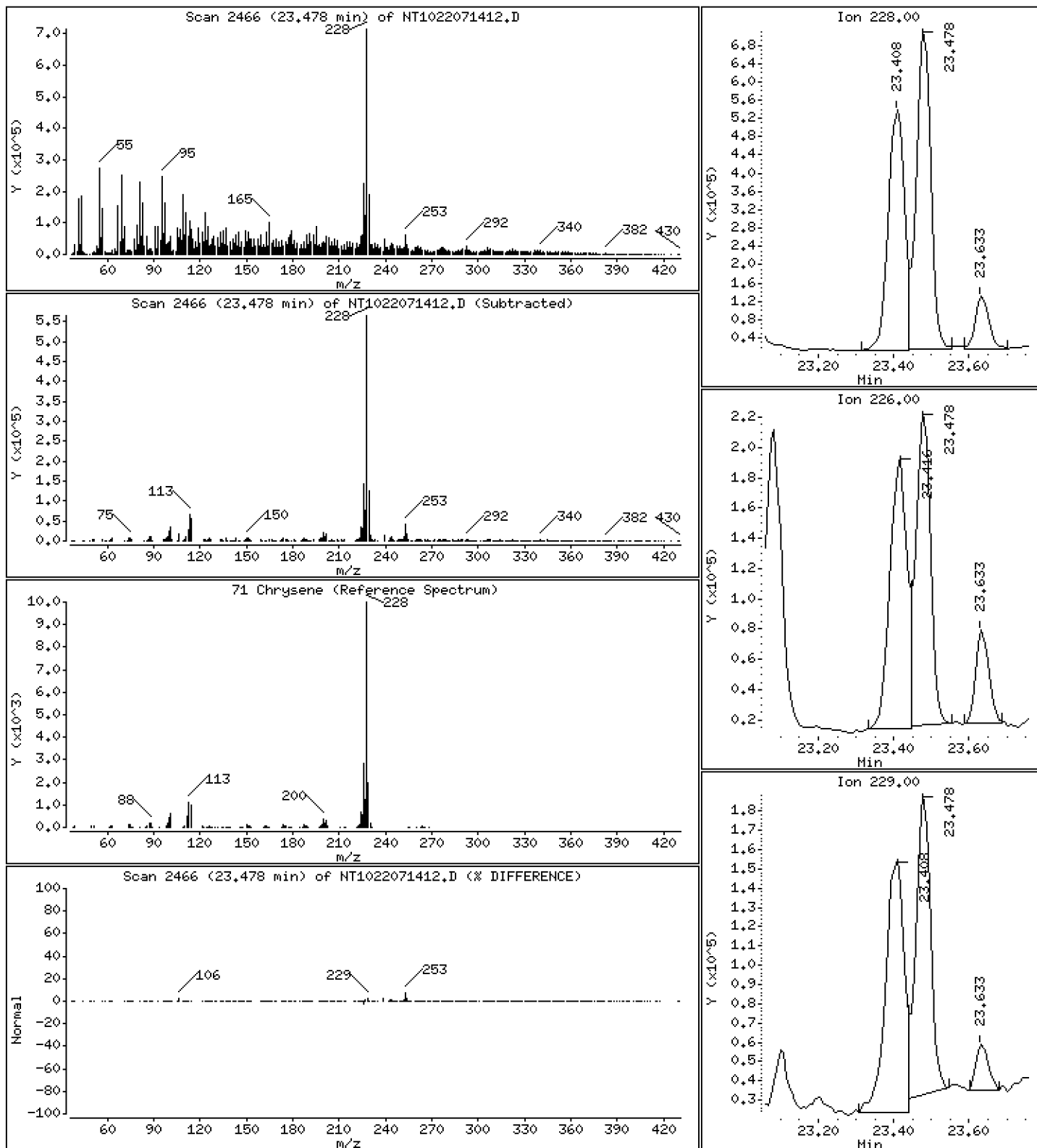
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 16,65 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

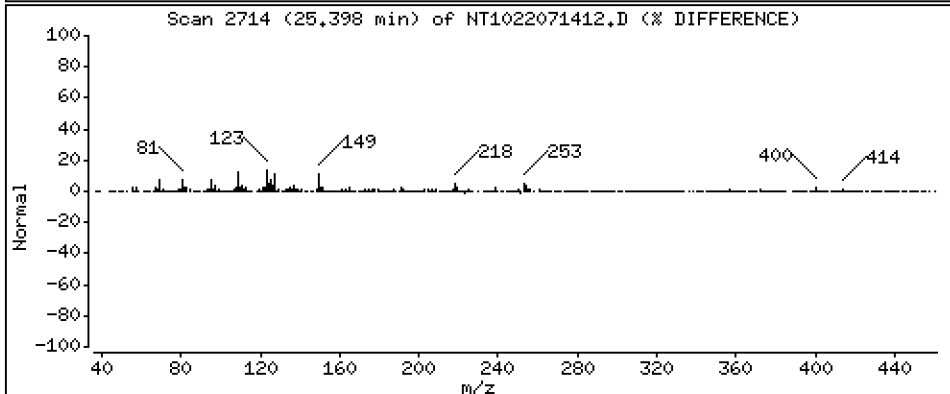
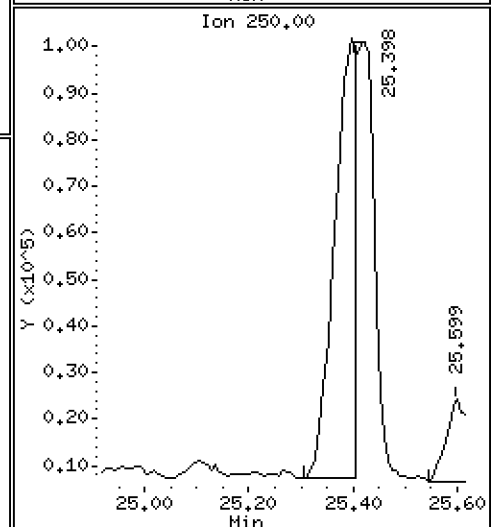
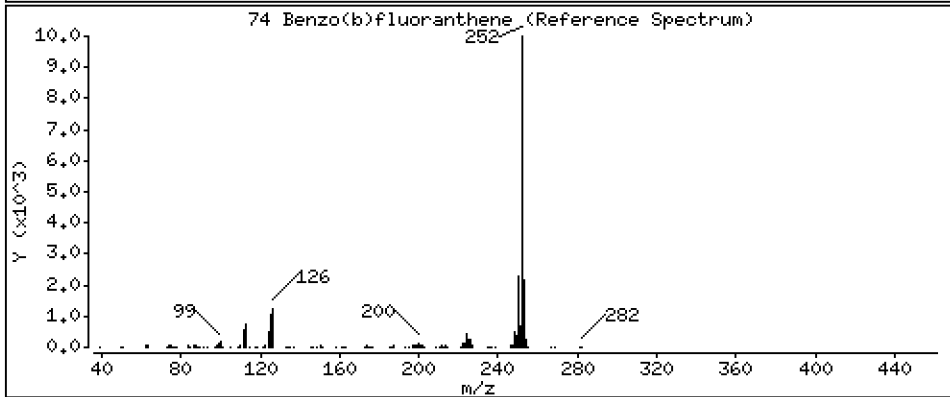
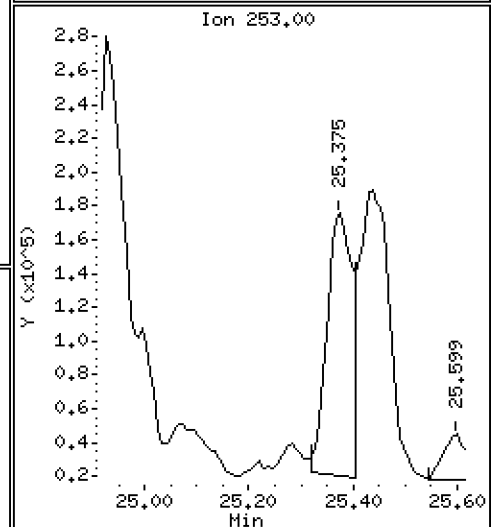
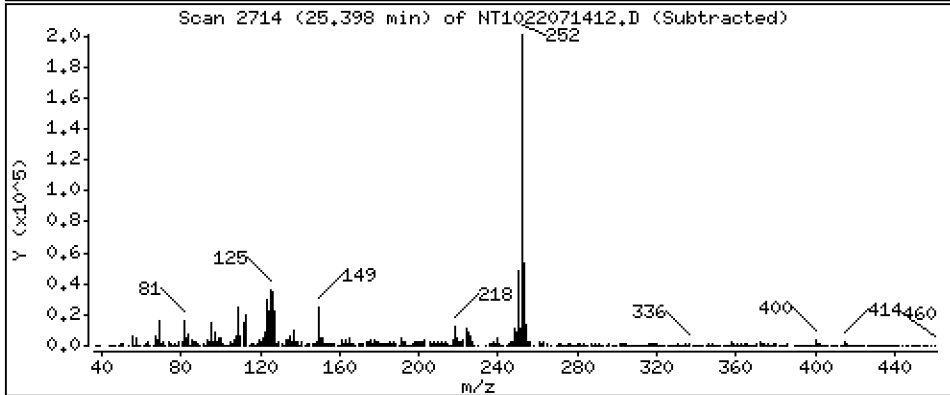
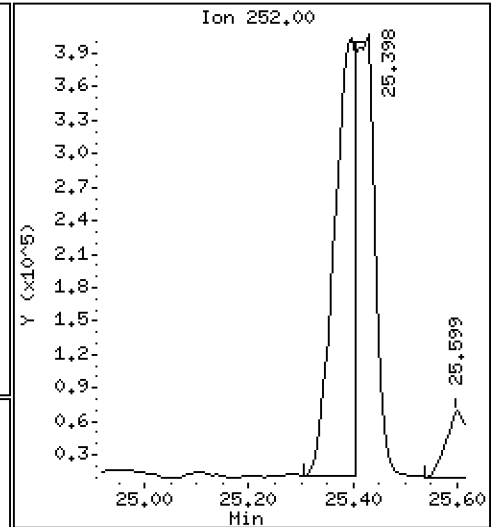
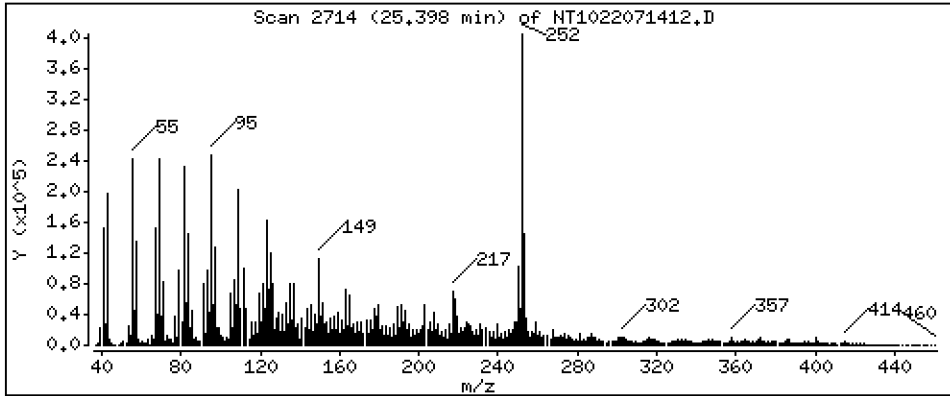
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 17,38 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

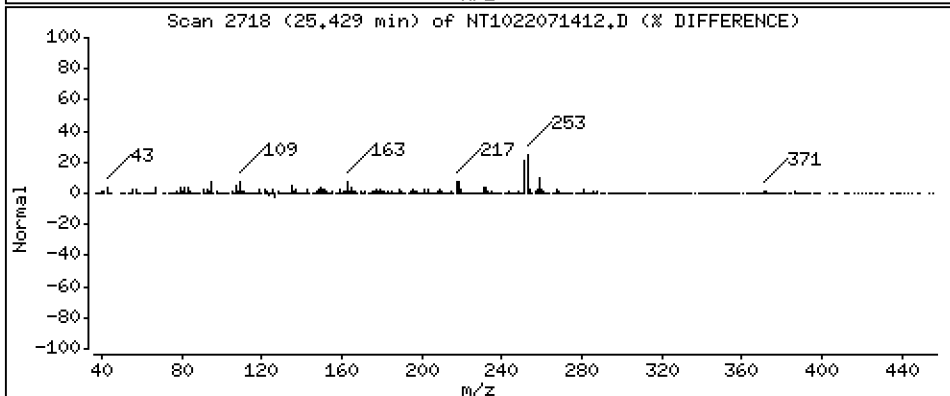
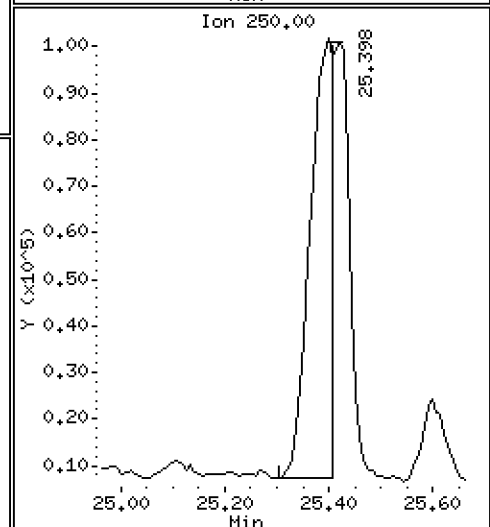
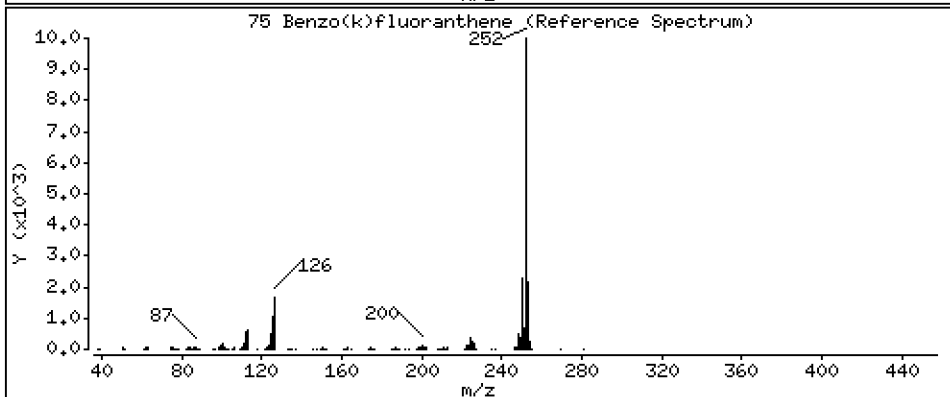
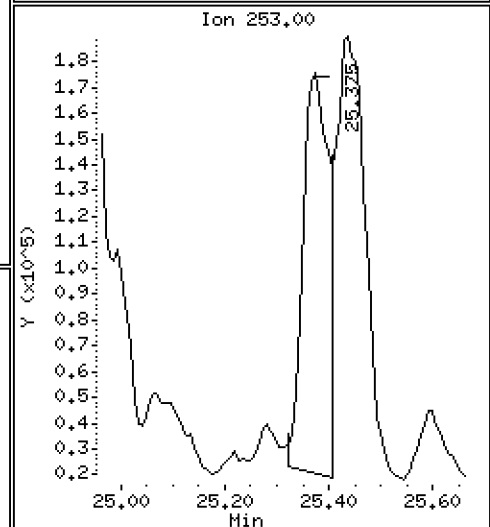
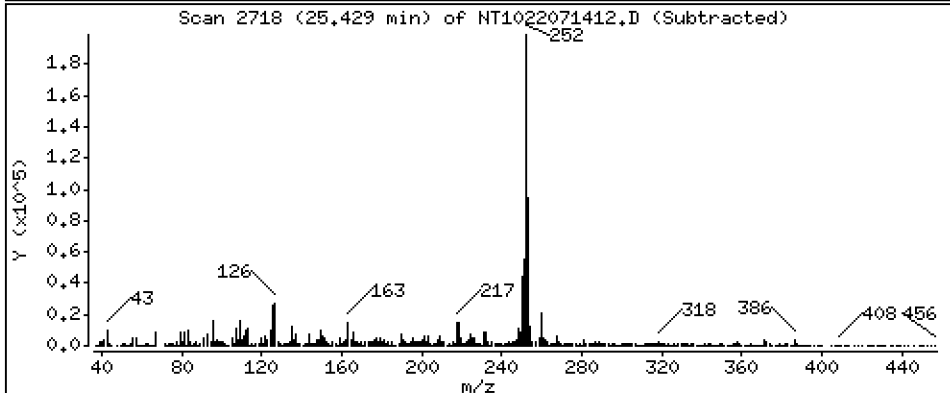
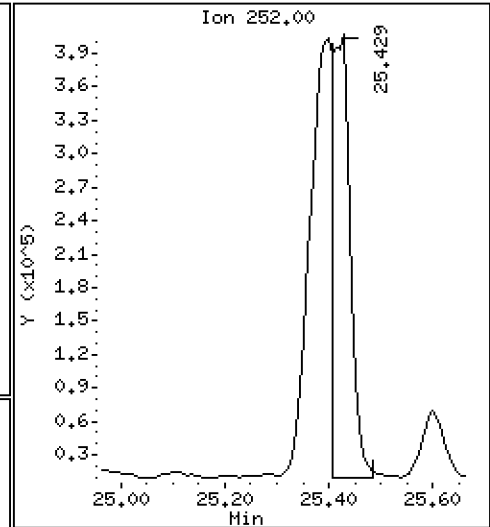
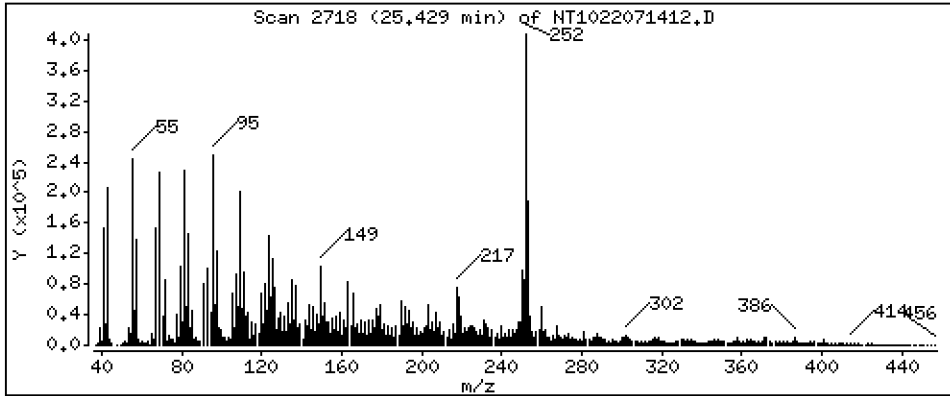
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 15,62 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 2200019-06

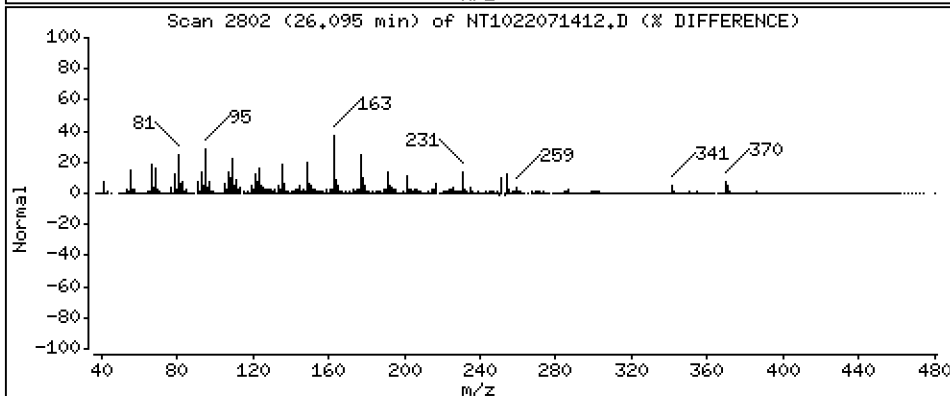
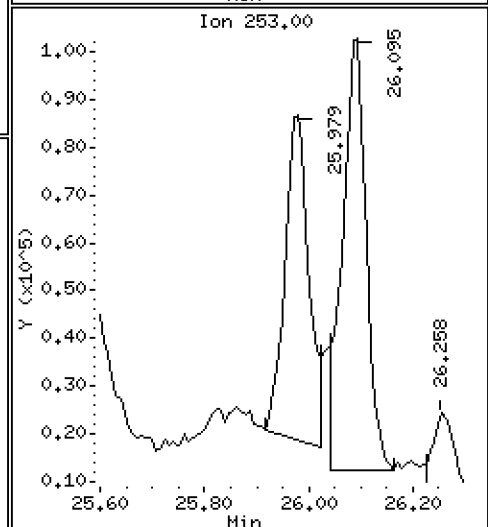
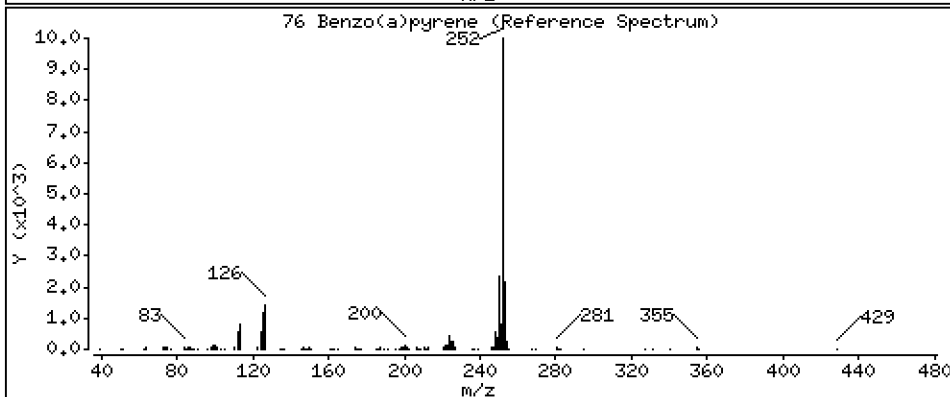
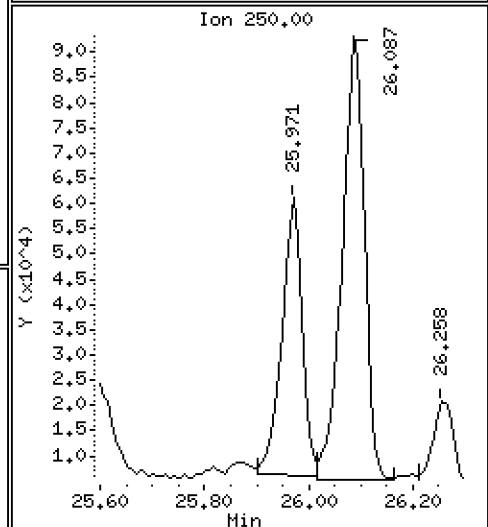
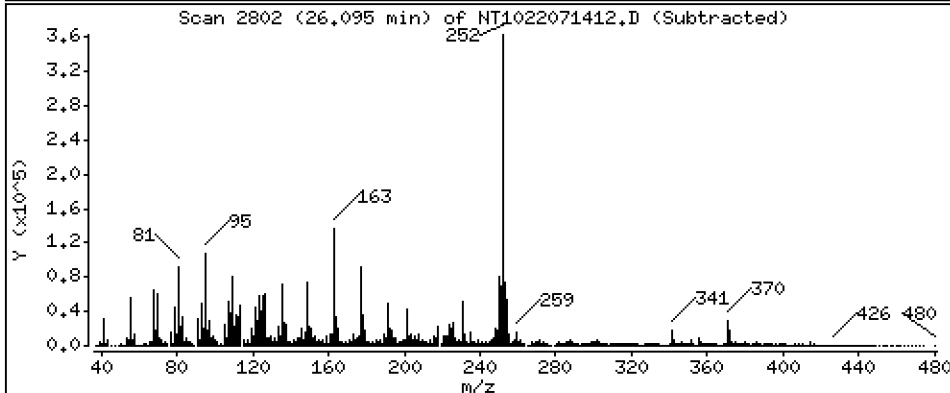
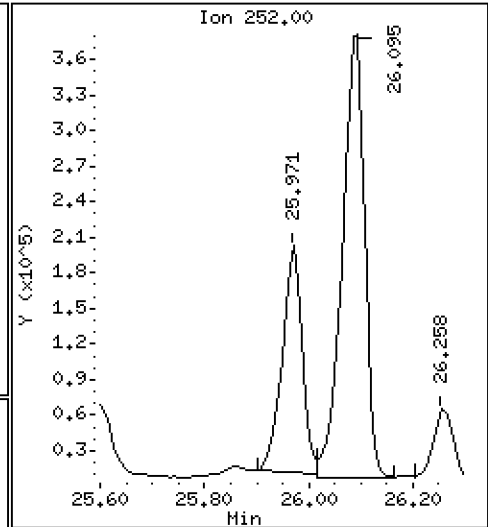
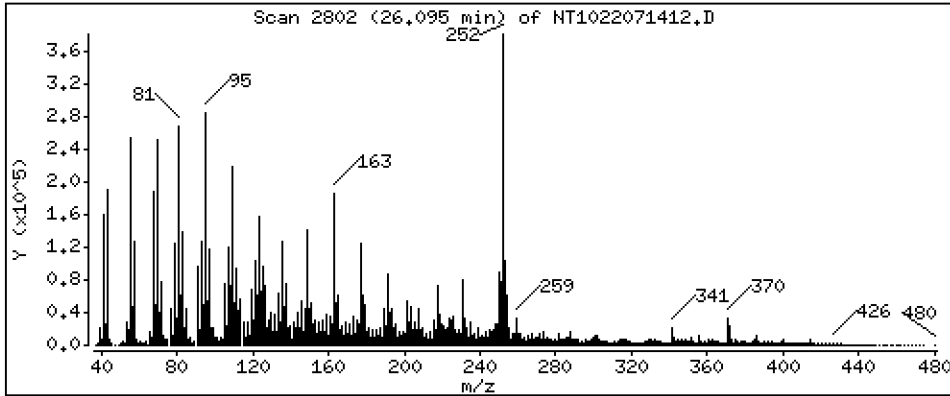
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 20,16 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

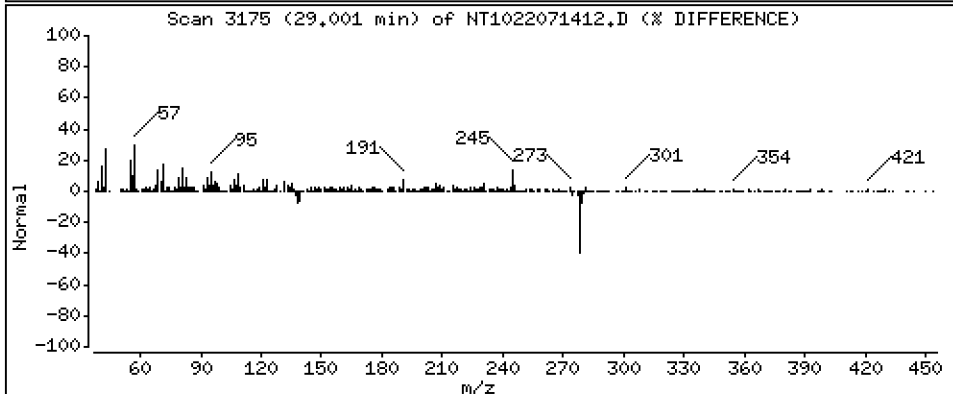
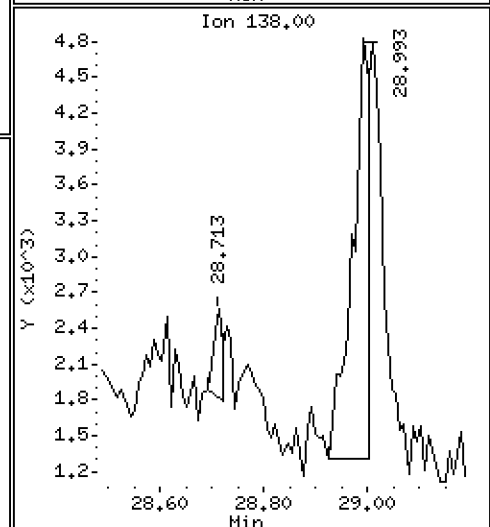
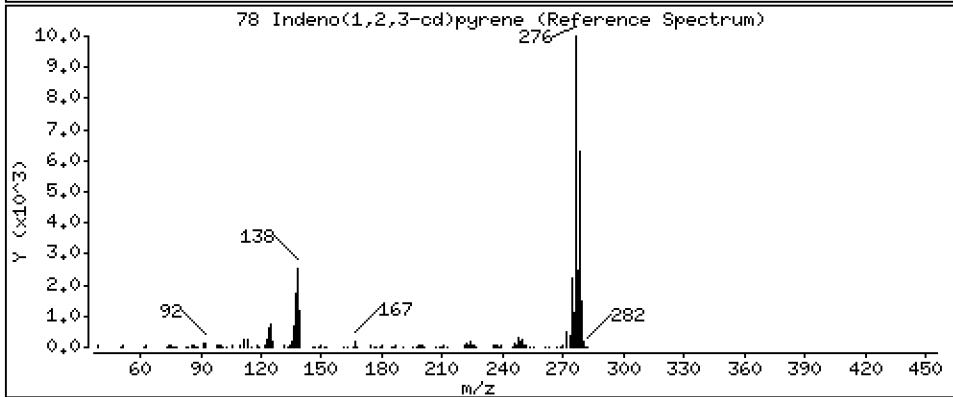
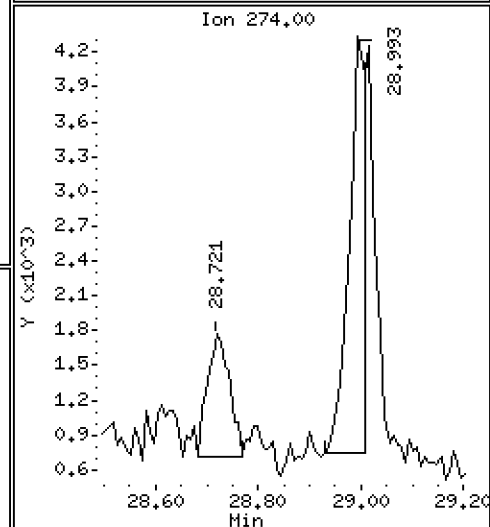
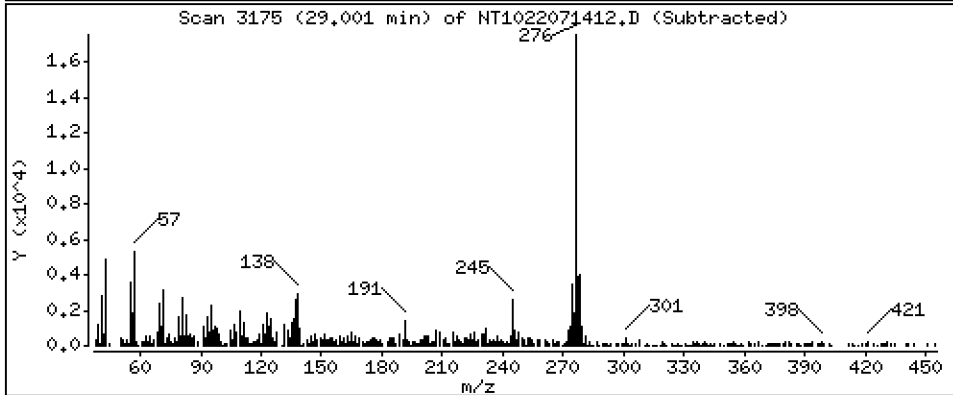
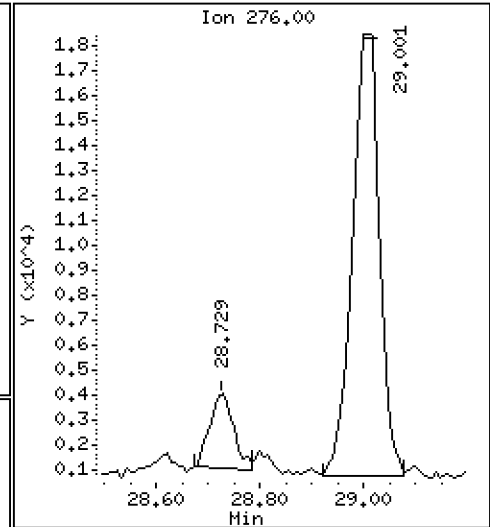
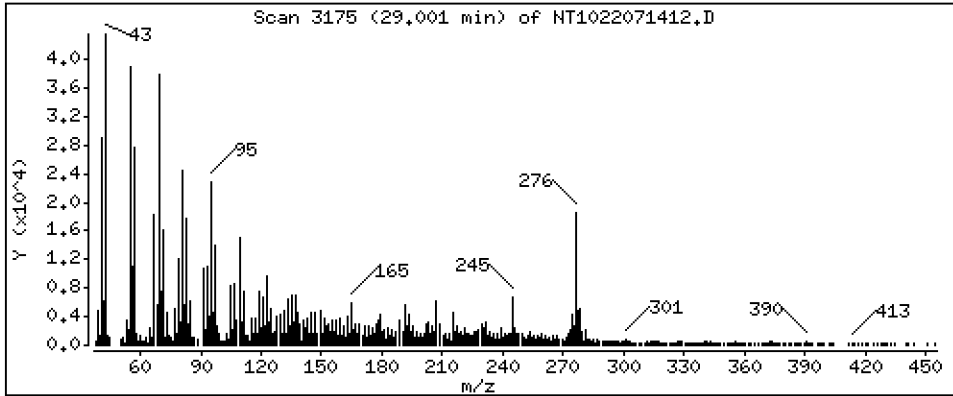
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 1,076 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

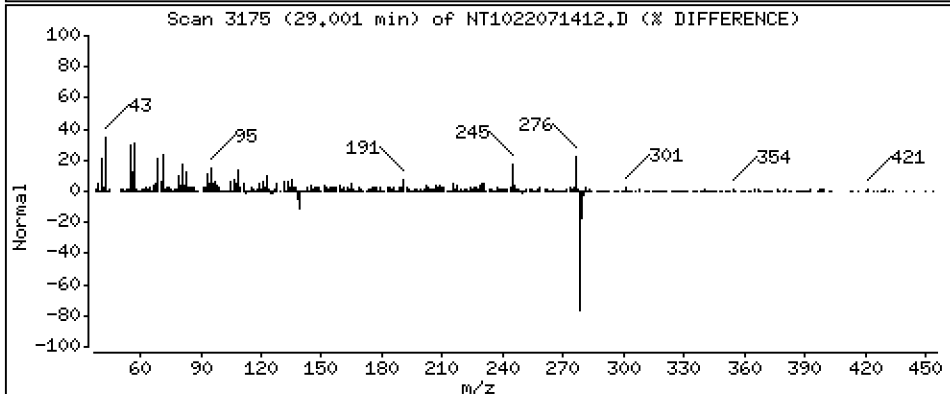
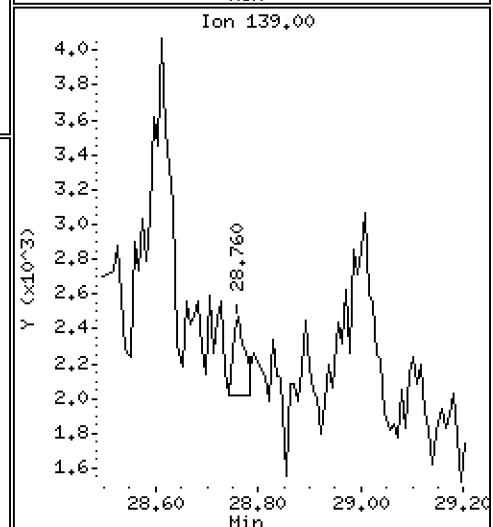
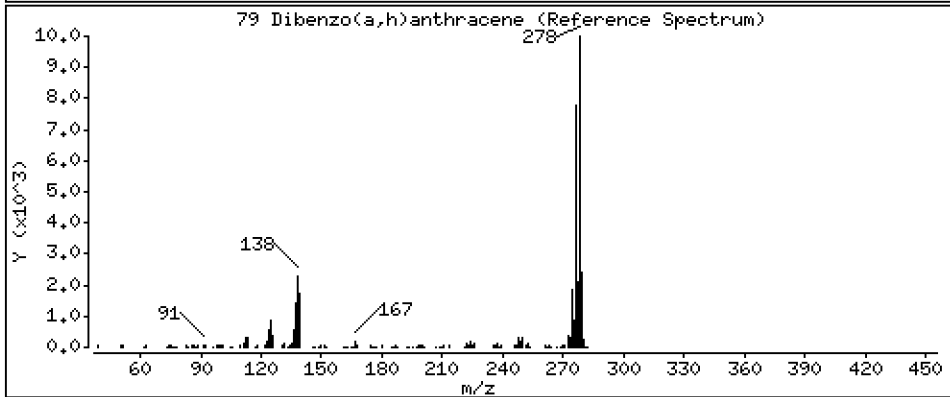
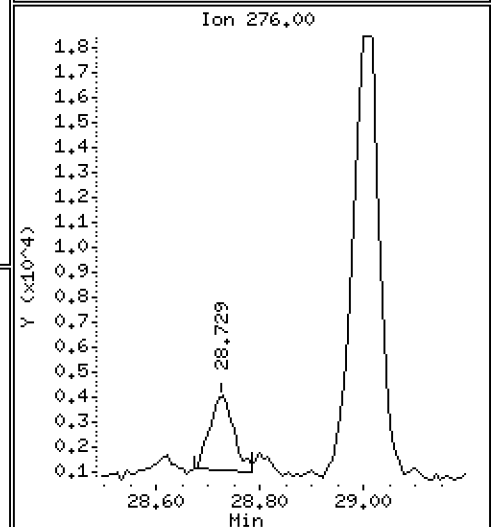
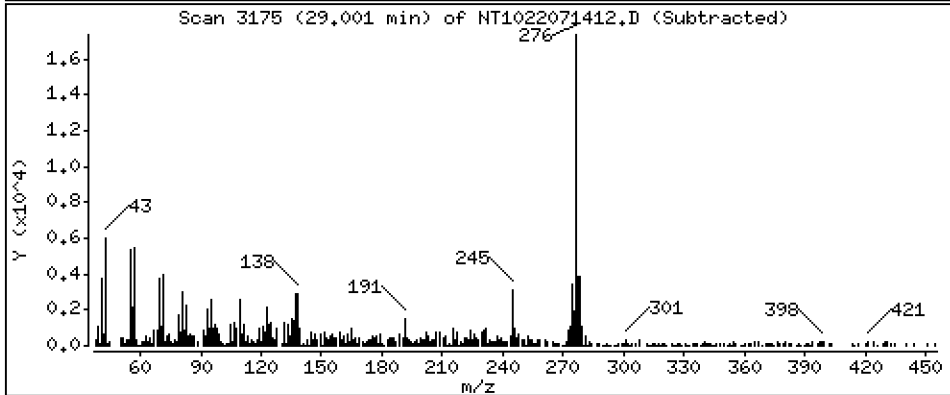
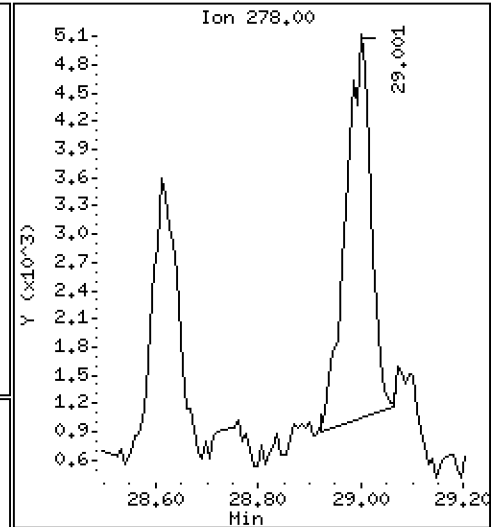
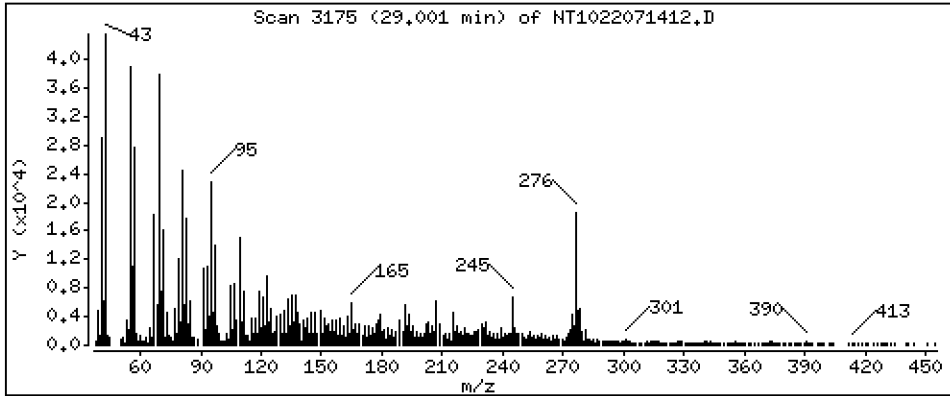
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenz(a,h)anthracene

Concentration: 0,3196 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

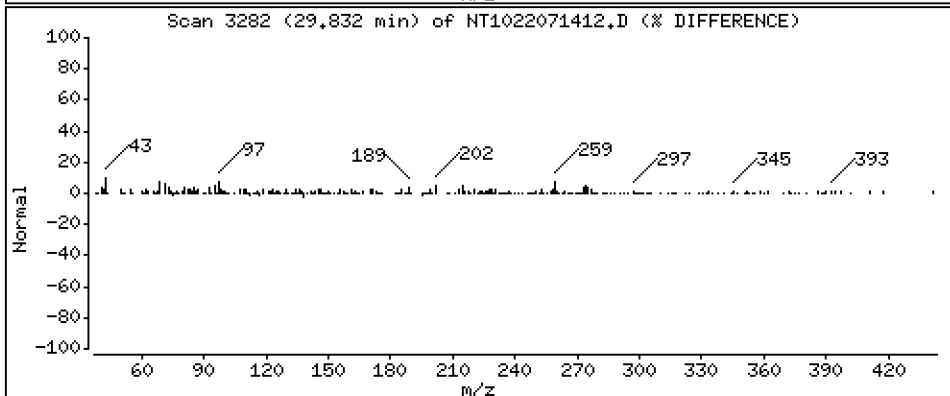
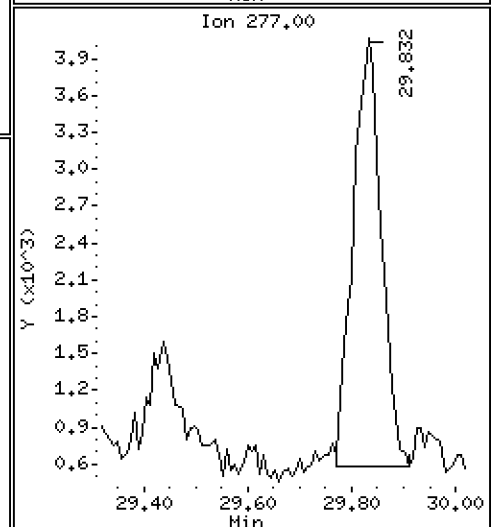
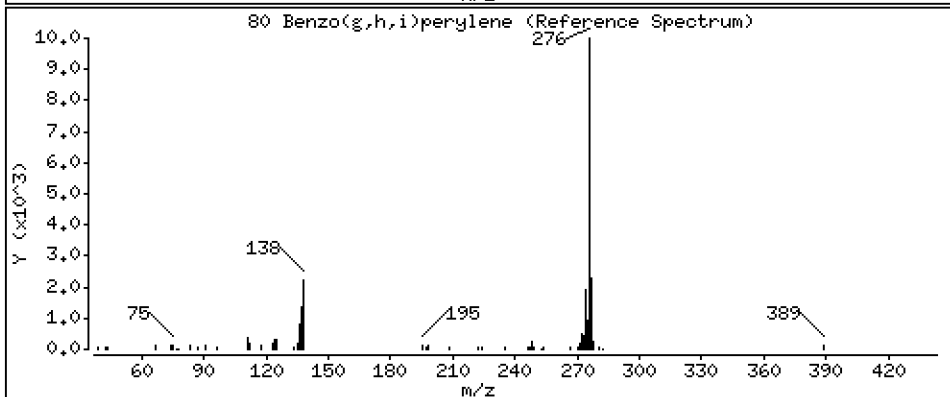
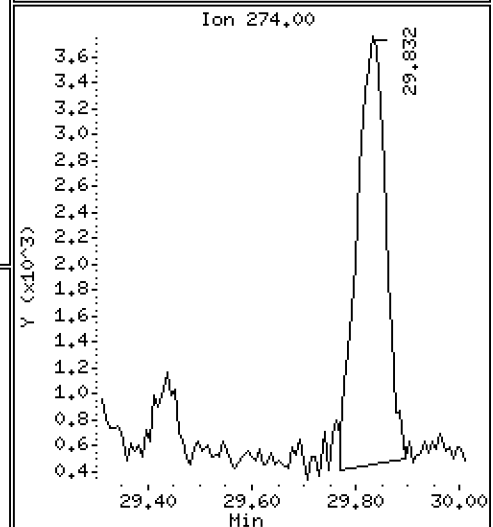
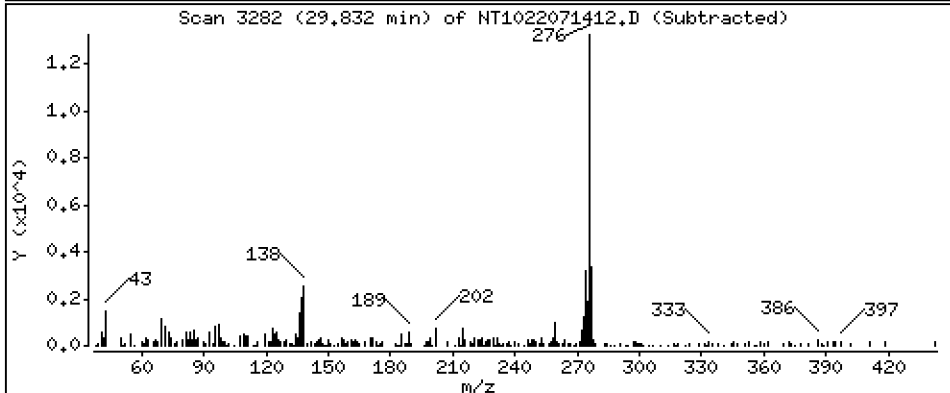
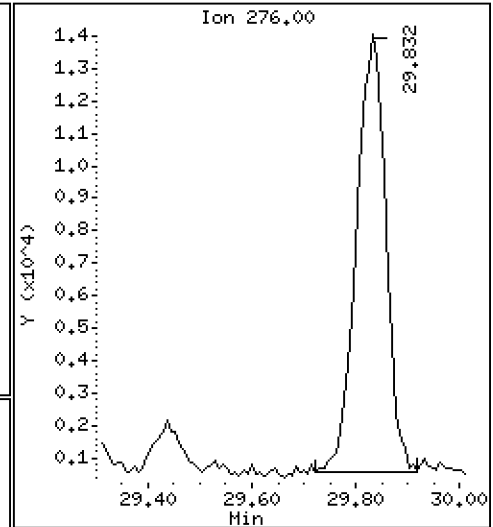
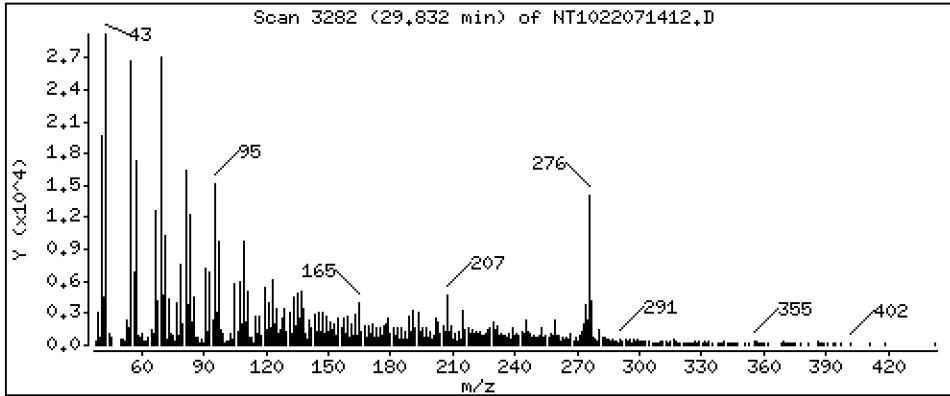
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 1,133 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 2200019-06

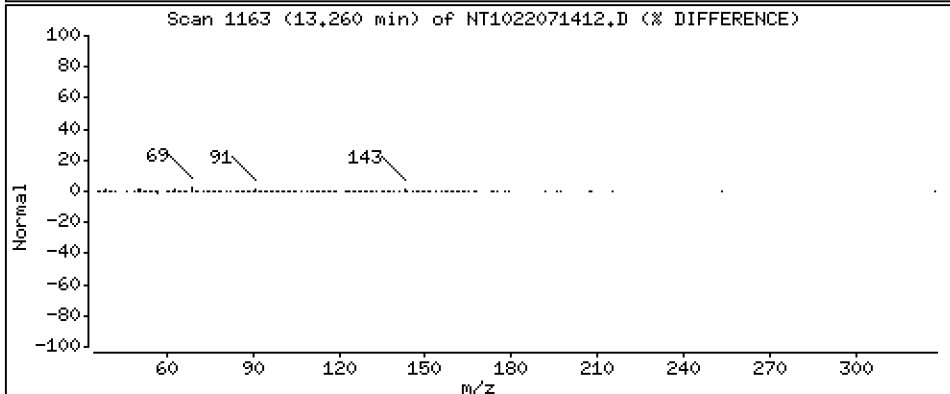
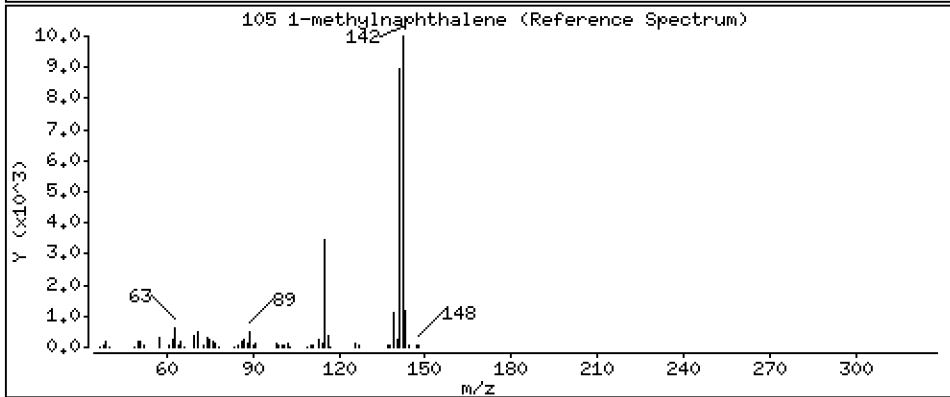
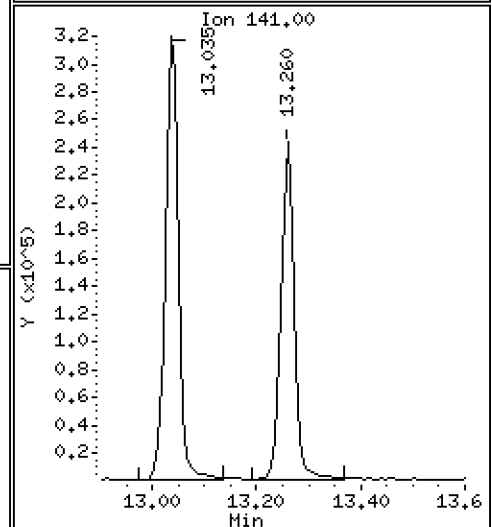
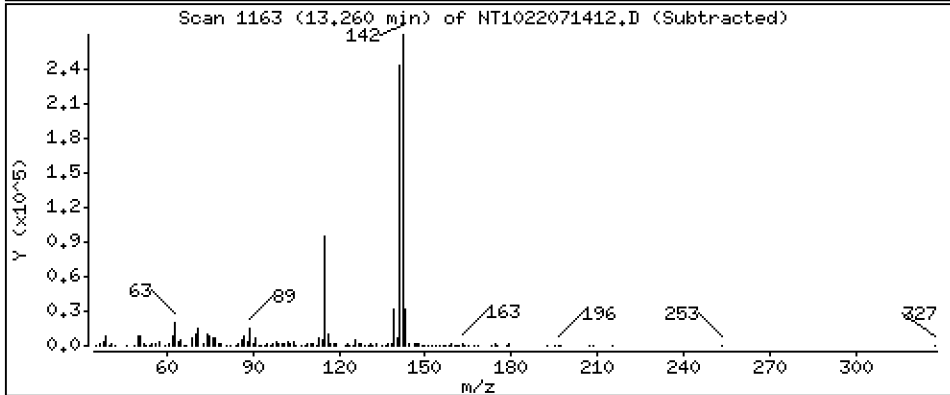
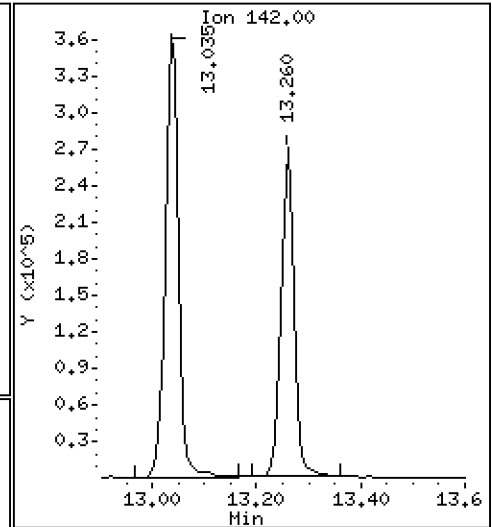
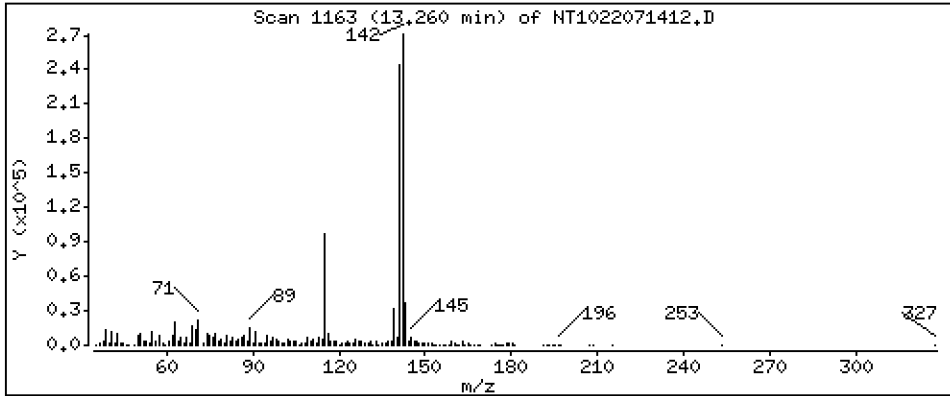
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 2,089 ug/mL



Date : 14-JUL-2022 20:52

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06

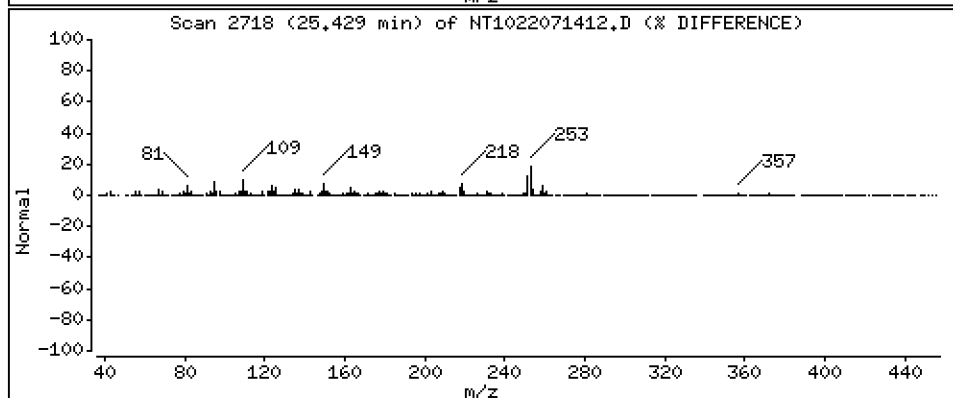
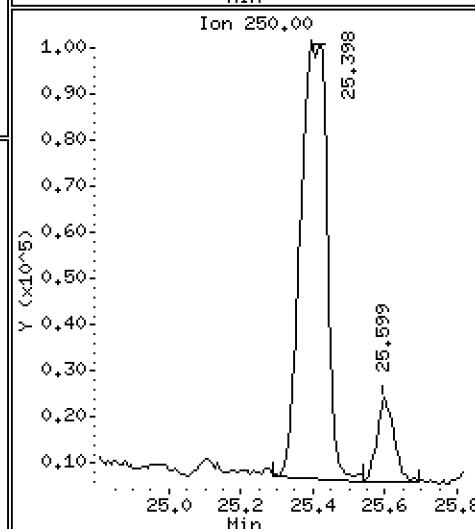
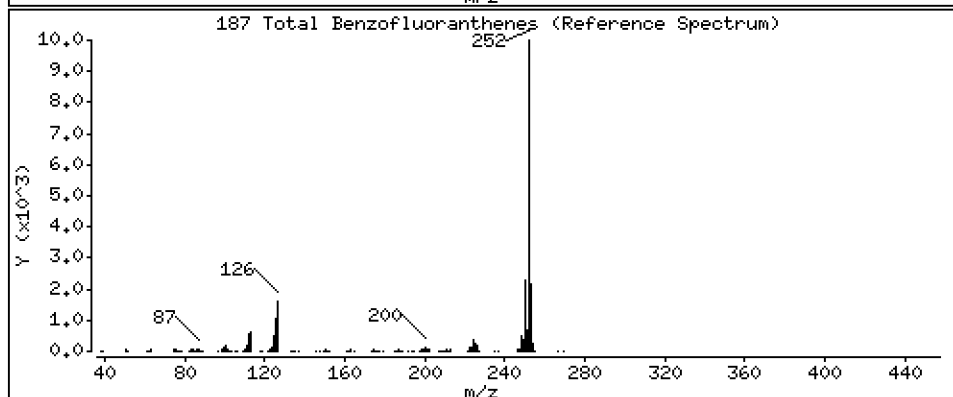
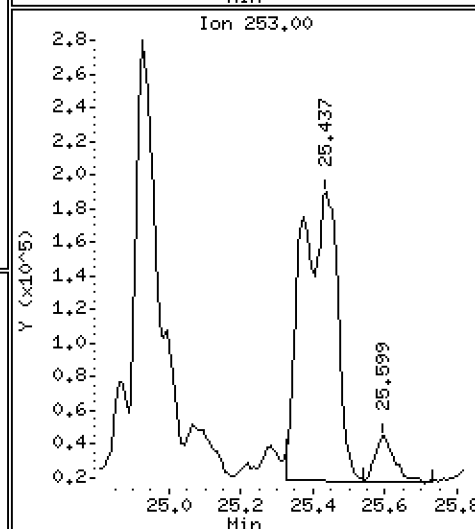
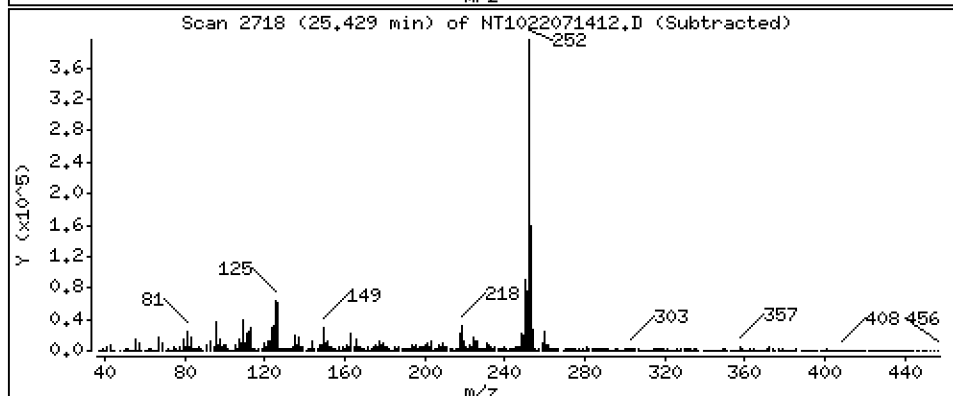
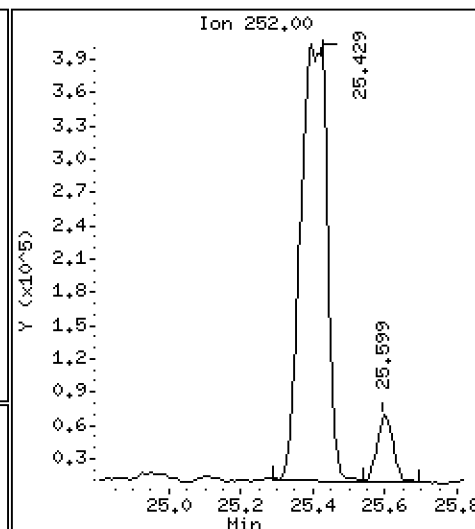
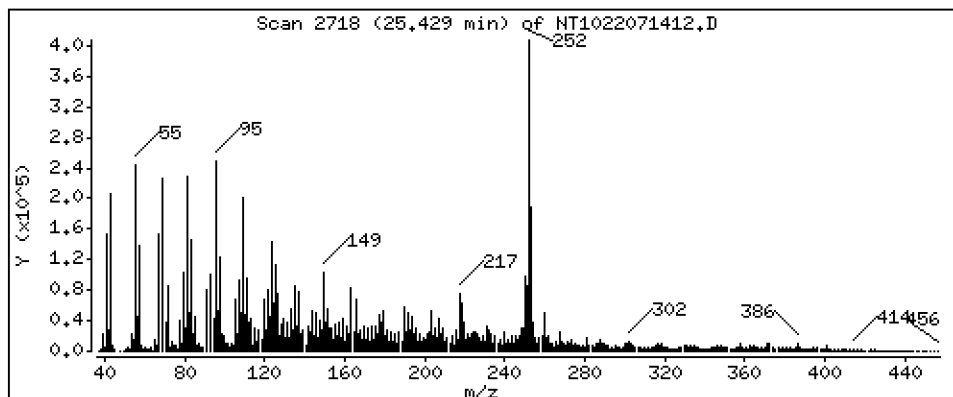
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 34,28 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071412.D
 Lab Smp Id: 22G0019-06
 Inj Date : 14-JUL-2022 20:52
 Operator : VTS
 Smp Info : 22G0019-06
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 14-Jul-2022 14:47 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.921	6.906	(0.760)	431039	4.91740	4.917
\$ 2 Phenol-d5	99		8.513	8.490	(0.935)	622114	4.78320	4.783
3 Phenol	94		8.529	8.513	(0.936)	64641	0.57036	0.5704
\$ 5 2-Chlorophenol-d4	132		8.760	8.753	(0.962)	583793	6.53626	6.536
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.101	(1.000)	240052	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.466	9.466	(1.039)	243013	4.41548	4.415
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		9.644	9.613	(1.059)	9134	0.13071	0.1307
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.916	9.885	(1.089)	39555	0.52968	0.5297
\$ 18 Nitrobenzene-d5	82		10.203	10.195	(0.880)	411358	4.41457	4.415
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		10.953	10.927	(0.945)	9541	0.13240	0.1324
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.596	11.589	(1.000)	875719	4.00000	
28 Naphthalene	128		11.642	11.627	(1.004)	7089274	31.6311	31.63
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		13.035	13.027	(1.124)	654366	2.93771	2.938
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.816	13.809	(0.907)	866385	6.73668	6.737
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152		14.908	14.900	(0.979)	698152	4.20248	4.202
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.225	15.210	(1.000)	284197	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.287	15.279	(1.004)	259410	3.13858	3.139
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.619	15.612	(1.026)	377916	2.87709	2.877
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		16.338	16.323	(1.073)	474580	3.02370	3.024
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.886	16.870	(1.109)	54640	4.23991	4.240
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.292	18.269	(1.000)	226867	4.00000	
60 Phenanthrene	178		18.354	18.316	(1.003)	5598480	93.9306	93.93
61 Anthracene	178		18.439	18.416	(1.008)	566561	8.92000	8.920
62 Carbazole	167		18.787	18.757	(1.027)	105984	1.80870	1.809
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.783	20.722	(1.000)	5329451	19.9952	20.00
65 Pyrene	202		21.217	21.147	(1.000)	7666497	26.9205	26.92
\$ 66 Terphenyl-d14	244		21.488	21.434	(1.000)	306712	2.82718	2.827
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.408	23.331	(1.000)	1555244	11.8061	11.81
* 69 Chrysene-d12	240		23.439	23.362	(1.000)	310877	4.00000	(M)
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.478	23.408	(1.000)	1852137	16.6532	16.65(H)
72 bis(2-Ethylhexyl)phthalate	149							
* 134 Di-n-octylphthalate-d4	153		24.476	24.407	(1.000)	472699	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.397	25.266	(0.969)	1172498	17.3811	17.38
75 Benzo(k)fluoranthene	252		25.428	25.313	(0.970)	1013237	15.6203	15.62(M)
76 Benzo(a)pyrene	252		26.094	25.948	(0.996)	1112839	20.1561	20.16
* 77 Perylene-d12	264		26.203	26.064	(1.000)	148953	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		29.000	28.845	(1.107)	63448	1.07631	1.076
79 Dibenzo(a,h)anthracene	278		29.000	28.853	(1.107)	14424	0.31962	0.3196(M)
80 Benzo(g,h,i)perylene	276		29.831	29.661	(1.138)	53377	1.13273	1.133
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.259	13.252	(1.143)	457195	2.08918	2.089
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252	25.428	25.313	(0.970)	2156148	34.2803	34.28	
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.						

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071412.D Calibration Time: 14:12
 Lab Smp Id: 22G0019-06
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	240052	22.58
27 Naphthalene-d8	626038	313019	1252076	875719	39.88
42 Acenaphthene-d10	366612	183306	733224	284197	-22.48
59 Phenanthrene-d10	635137	317569	1270274	226867	-64.28
69 Chrysene-d12	270778	135389	541556	310877	14.81
134 Di-n-octylphthala	507031	253516	1014062	472699	-6.77
77 Perylene-d12	170107	85054	340214	148953	-12.44

<-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.11	0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.06
42 Acenaphthene-d10	15.21	14.71	15.71	15.23	0.10
59 Phenanthrene-d10	18.27	17.77	18.77	18.29	0.13
69 Chrysene-d12	23.36	22.86	23.86	23.44	0.33
134 Di-n-octylphthala	24.41	23.91	24.91	24.48	0.28
77 Perylene-d12	26.06	25.56	26.56	26.20	0.53

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

REVIEW SUMMARY FOR FILE - NT1022071412.D

Lab ID: 22G0019-06
nt10.i, ABN.m, 14-JUL-2022 20:52

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.000	0.887	0.1130	Fluoranthene
1.000	0.905	0.0948	Pyrene
1.000	0.917	0.0825	Terphenyl-d14

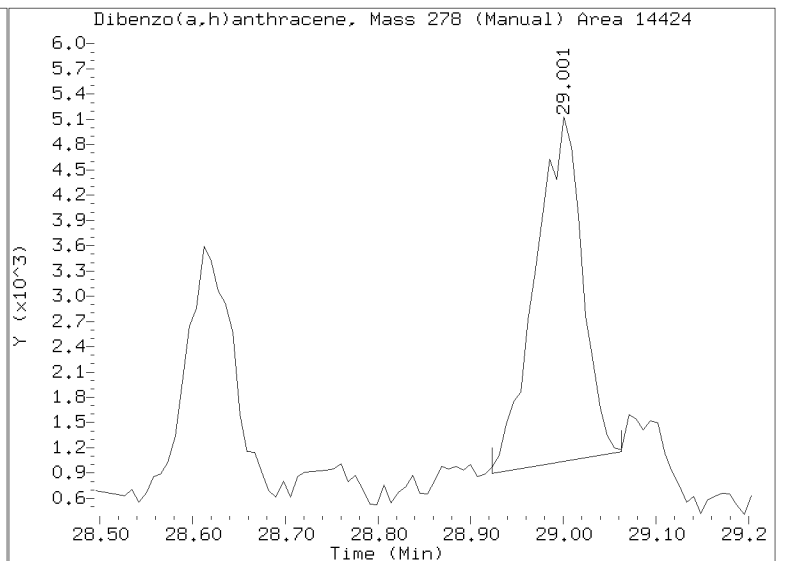
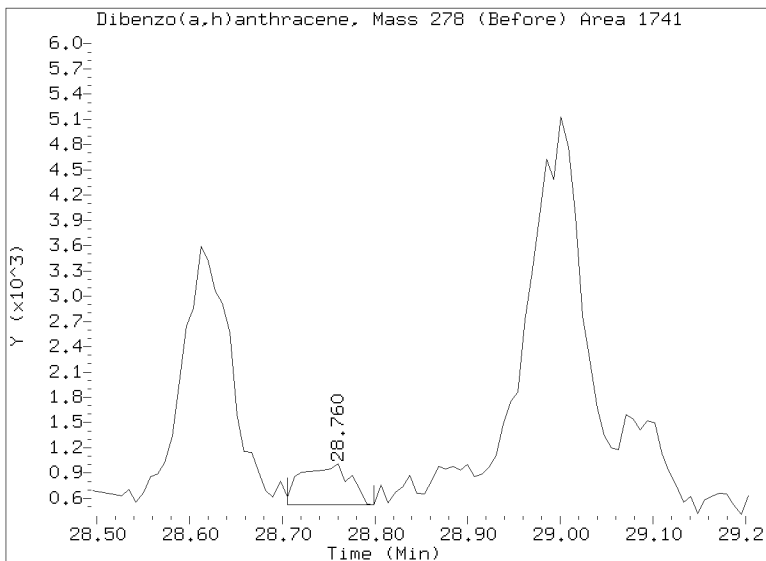
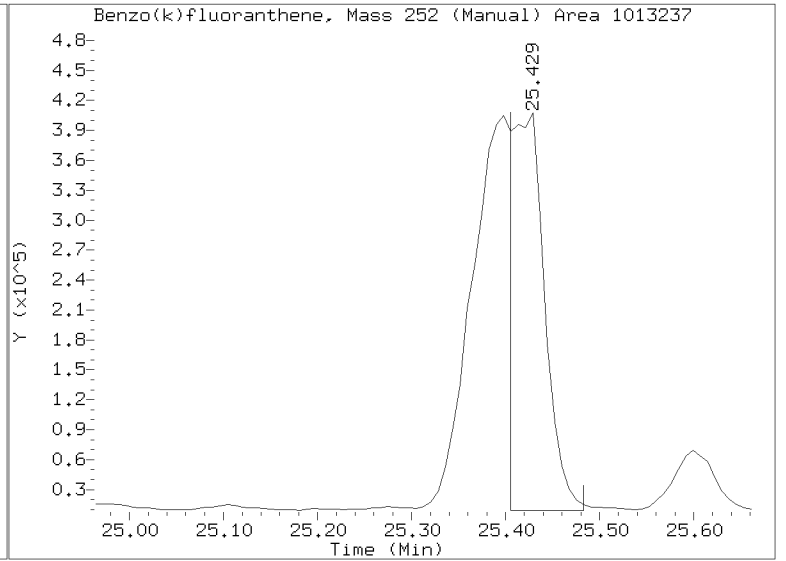
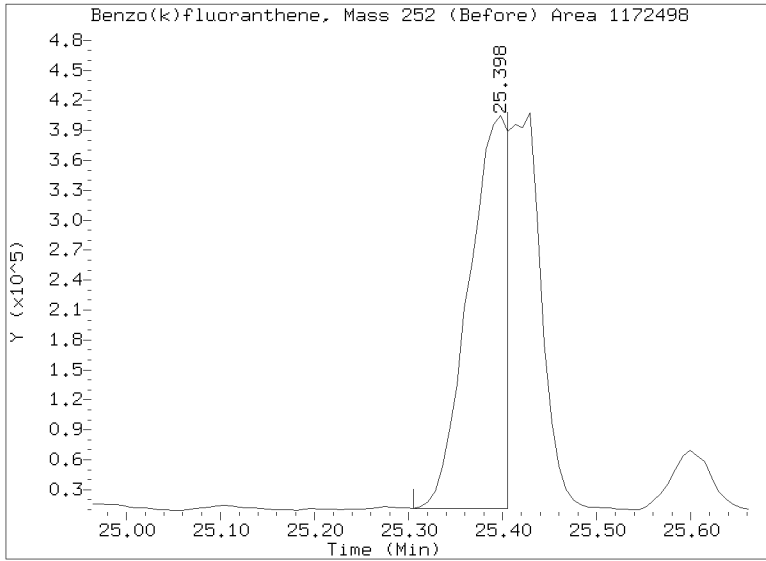
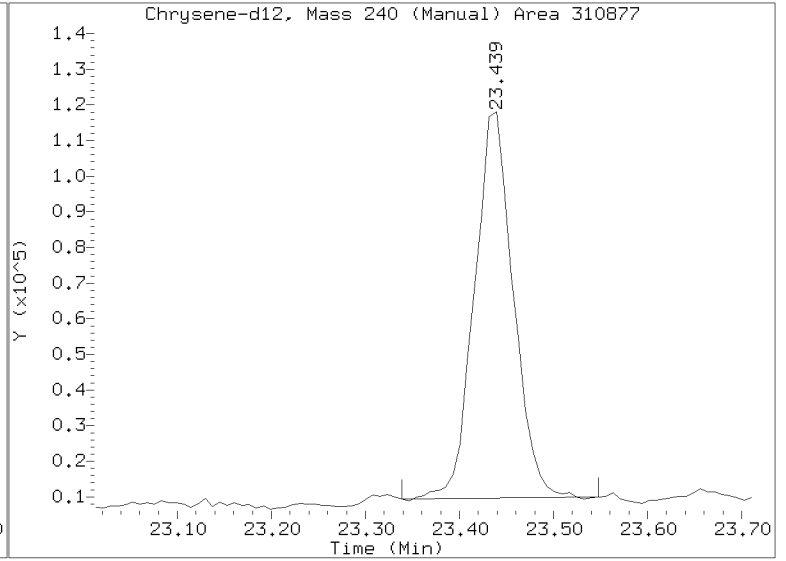
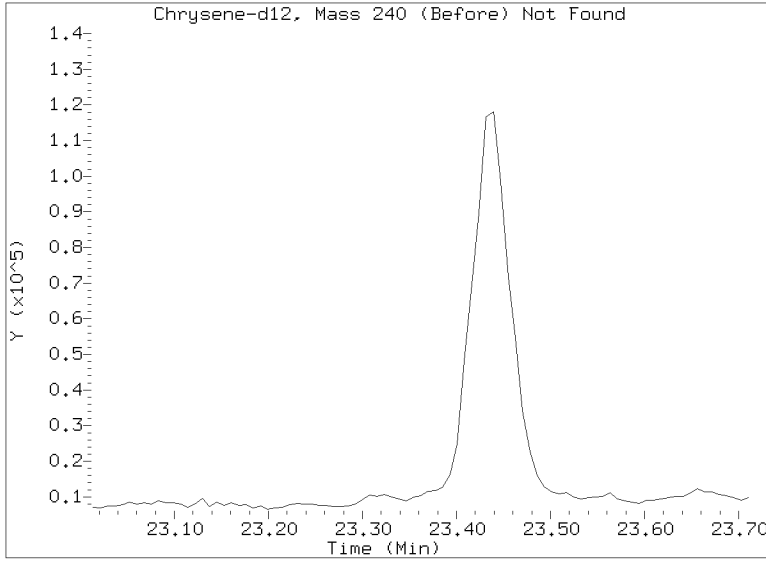
RRT check based on Ccal File: NT1022071402.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071412.D
Injection Date: 14-JUL-2022 20:52
Lab ID:22G0019-06 Client ID:
Report Date: 07/19/2022 12:56





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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-06RE1 A

SDG: 22G0019

Sampled: 06/28/22 11:40

Prepared: 07/07/22 10:01

File ID: NT1022071513.D

% Solids: 27.78

Preparation: EPA 3546 (Microwave)

Analyzed: 07/15/22 20:00

Batch: BKG0069

Sequence: SKG0154

Initial/Final: 20.07 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	5	5260	D	38.0	179
91-57-6	2-Methylnaphthalene	5	536	D	40.4	179
83-32-9	Acenaphthene	5	523	D	46.8	179
87-86-5	Pentachlorophenol	5	280	U	280	897
85-01-8	Phenanthrene	5	9390	D	78.2	179
206-44-0	Fluoranthene	5	9430	Q, D	54.6	179
56-55-3	Benzo(a)anthracene	5	2280	D	53.4	179
218-01-9	Chrysene	5	3360	Q, D	54.3	179
205-99-2	Benzo(b)fluoranthene	5	1710	D	63.0	179
207-08-9	Benzo(k)fluoranthene	5	2000	D	44.9	179
50-32-8	Benzo(a)pyrene	5	2640	D	37.9	179
193-39-5	Indeno(1,2,3-cd)pyrene	5	1300	D	131	179
53-70-3	Dibenzo(a,h)anthracene	5	363	D	155	179
90-12-0	1-Methylnaphthalene	5	392	D	47.2	179

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	1345.2	937	69.7	27 - 120	
Phenol-d5	1345.2	838	62.3	29 - 120	
2-Chlorophenol-d4	1345.2	1200	89.3	31 - 120	
1,2-Dichlorobenzene-d4	896.79	730	81.4	32 - 120	
Nitrobenzene-d5	896.79	772	86.0	30 - 120	
2-Fluorobiphenyl	896.79	1010	112	35 - 120	
2,4,6-Tribromophenol	1345.2	945	70.3	24 - 134	
p-Terphenyl-d14	896.79	1000	112	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220715.6\NT1022071513.D
Date: 15-JUL-2022 20:00
Client ID:
Sample Info: 22C0019-06REL1,5

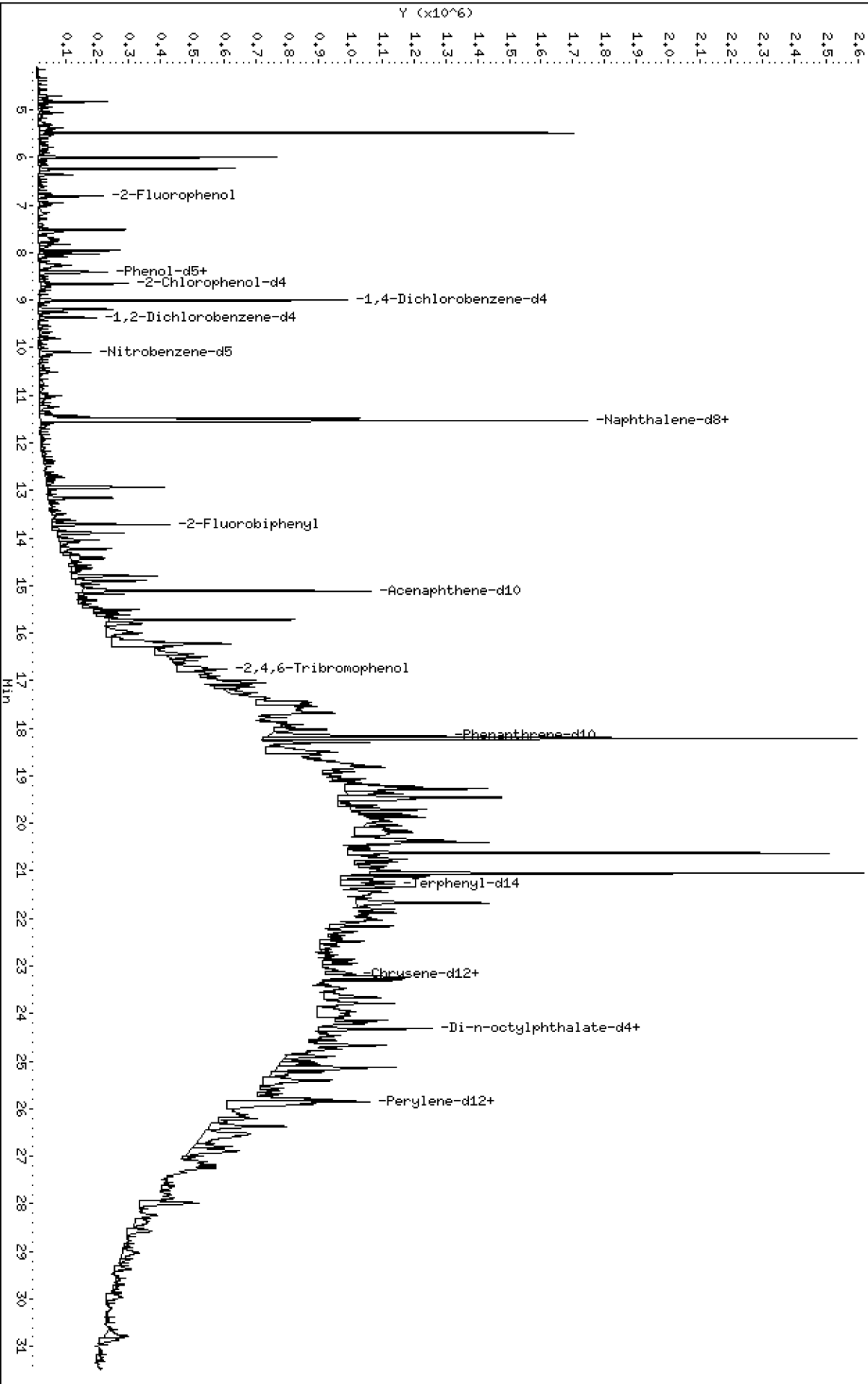
Instrument: nt10.1

Page 1

Column phase: ZB-5msi

Operator: VTS
Column diameter: 0.25

\\target\share\chem3\nt10.1\20220715.6\NT1022071513.D



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

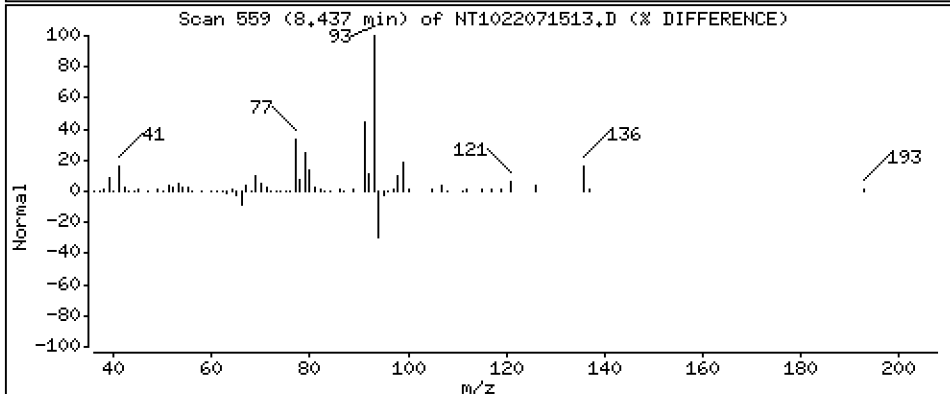
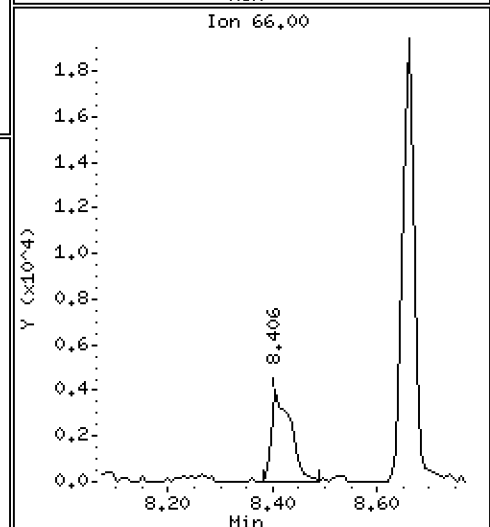
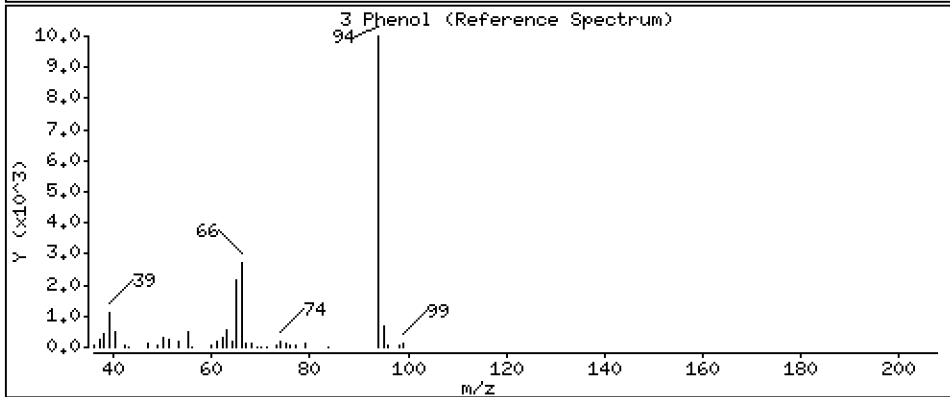
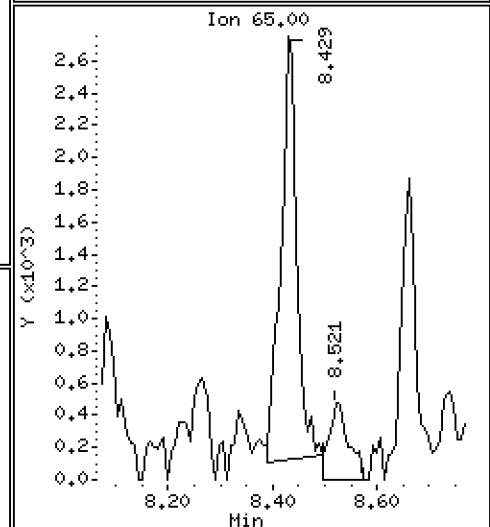
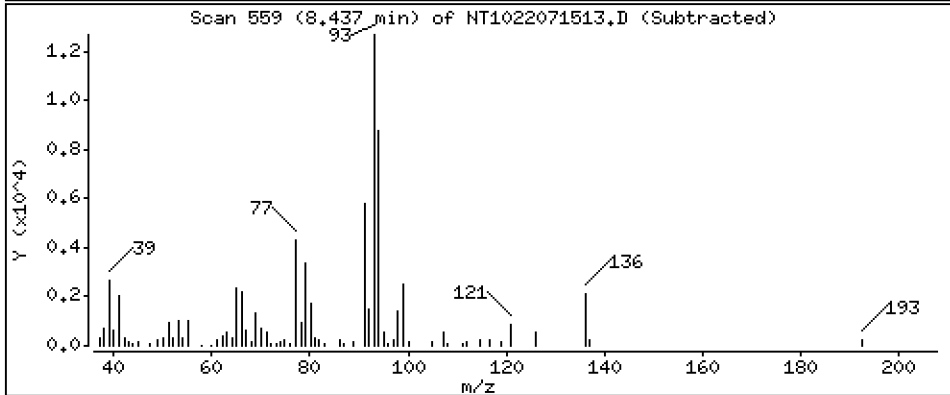
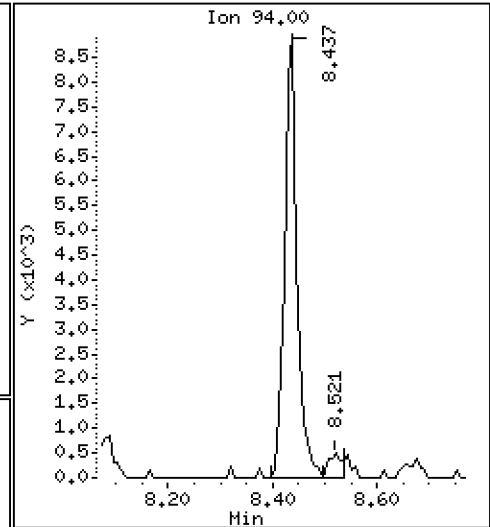
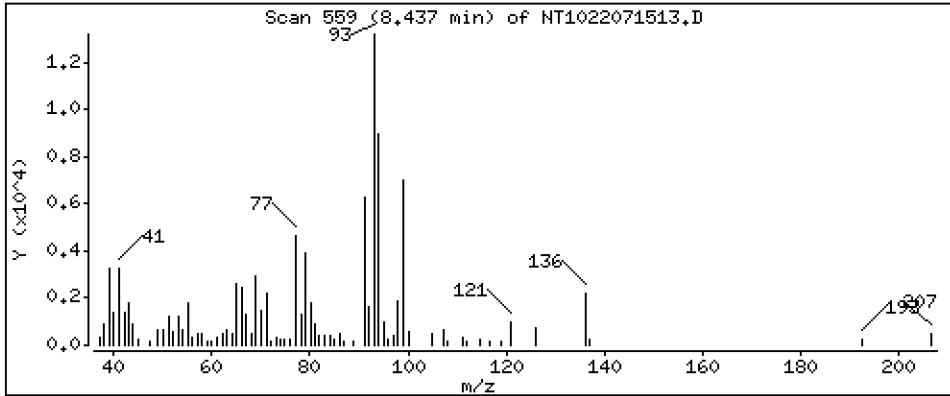
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,5690 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 2200019-06RE1,5

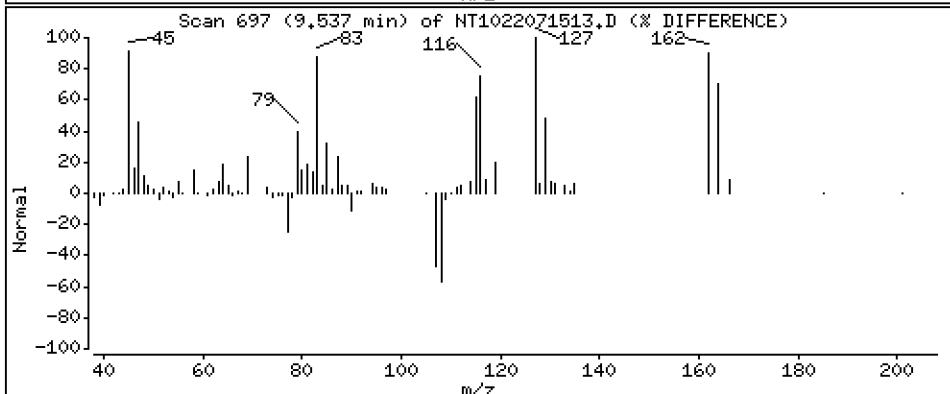
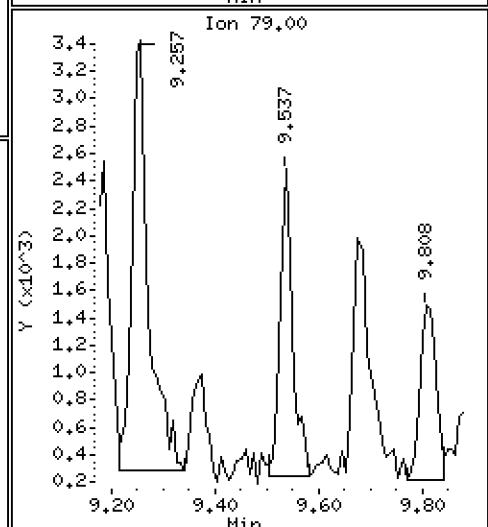
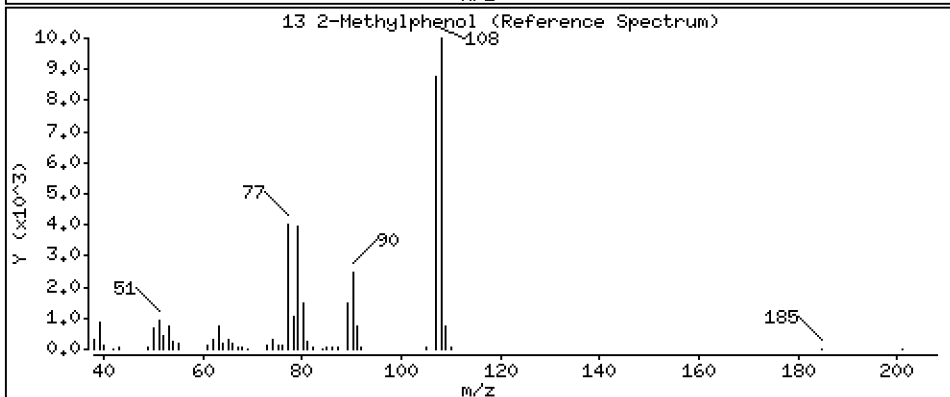
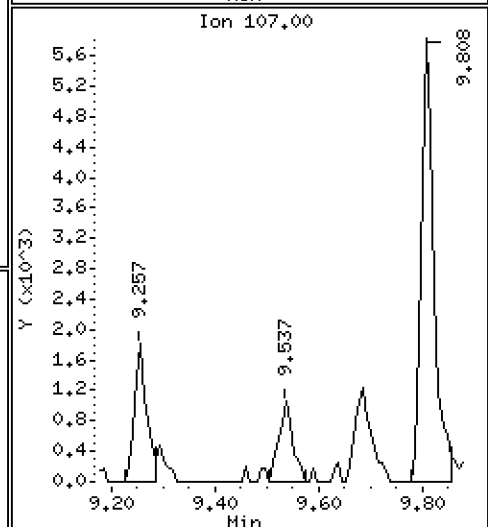
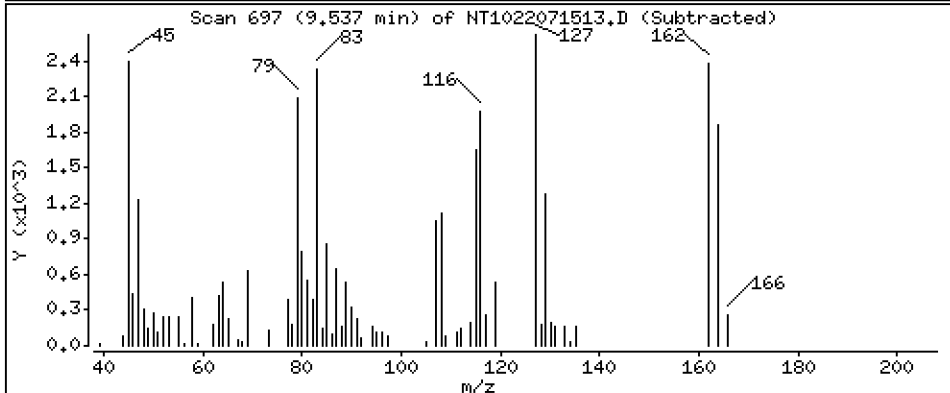
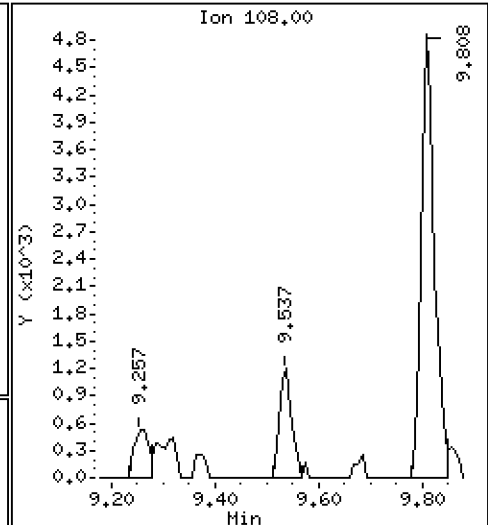
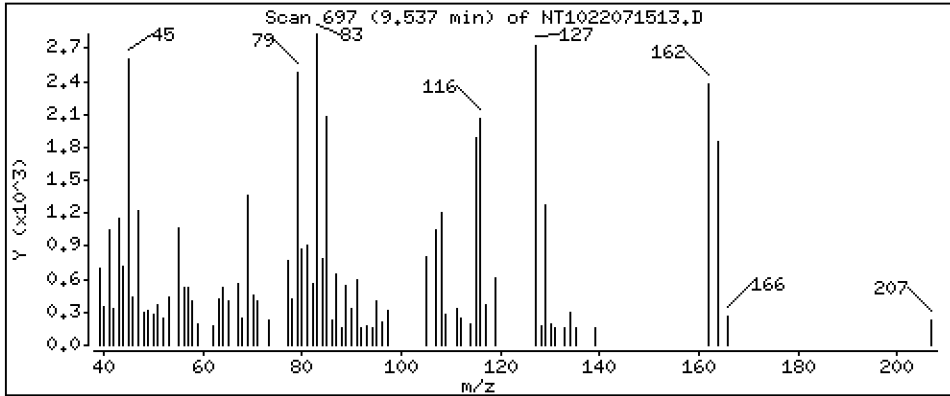
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,1171 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

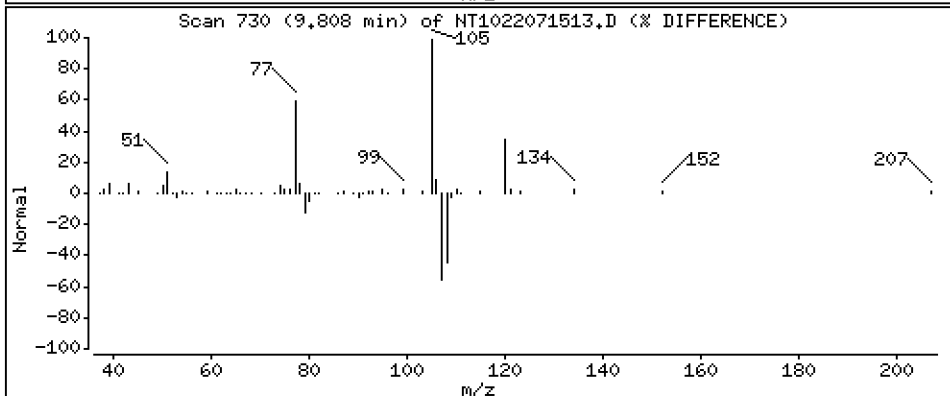
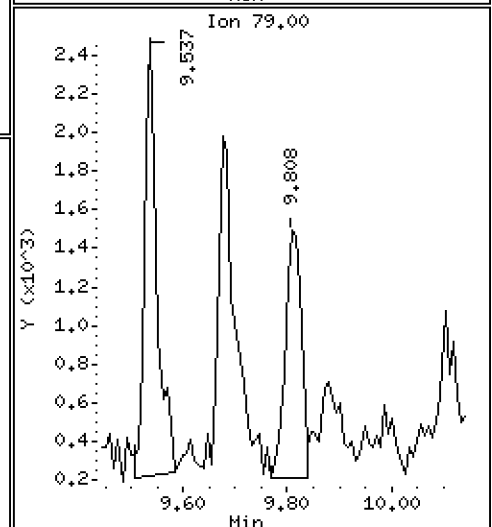
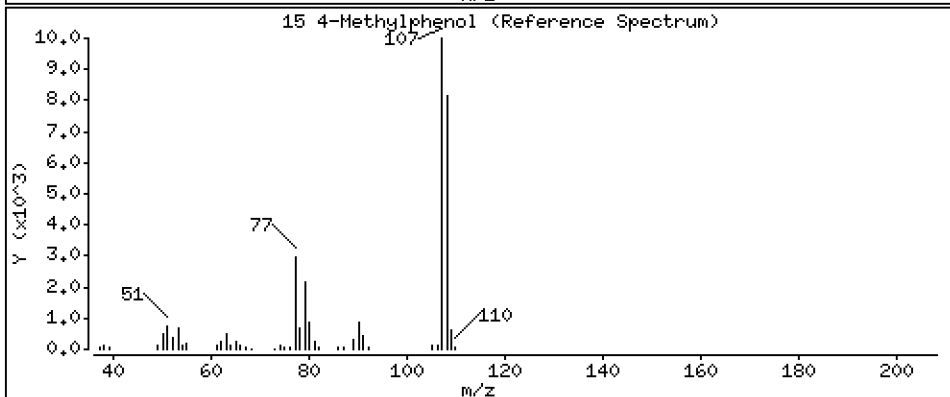
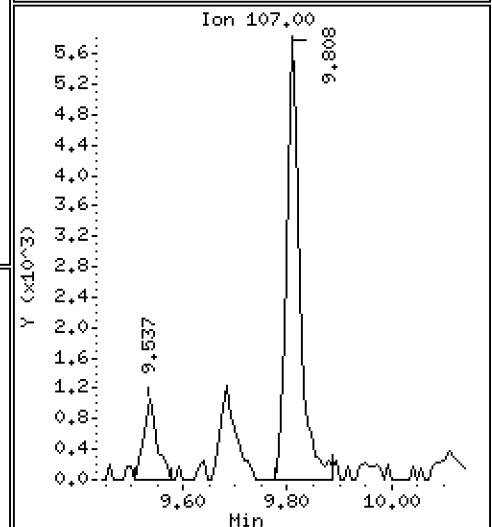
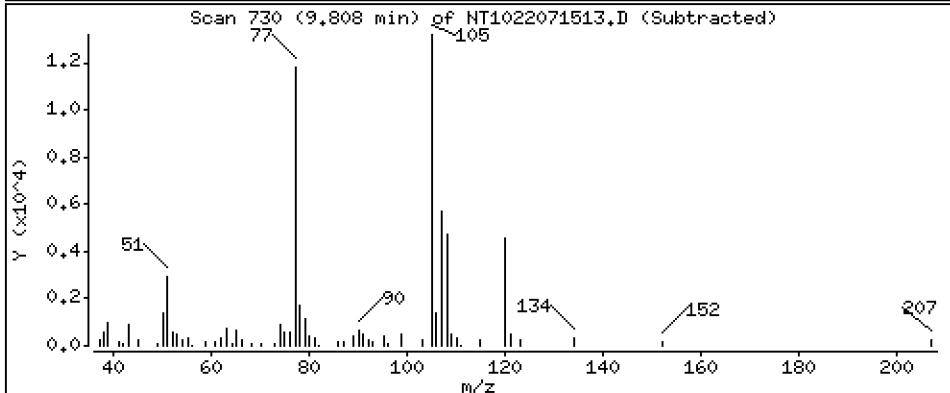
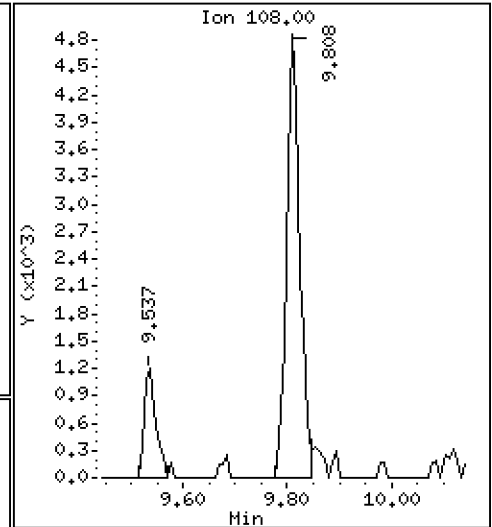
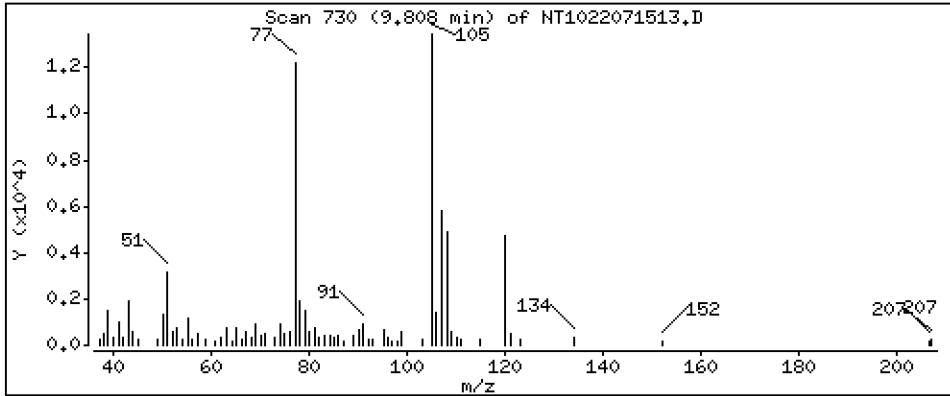
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,5128 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

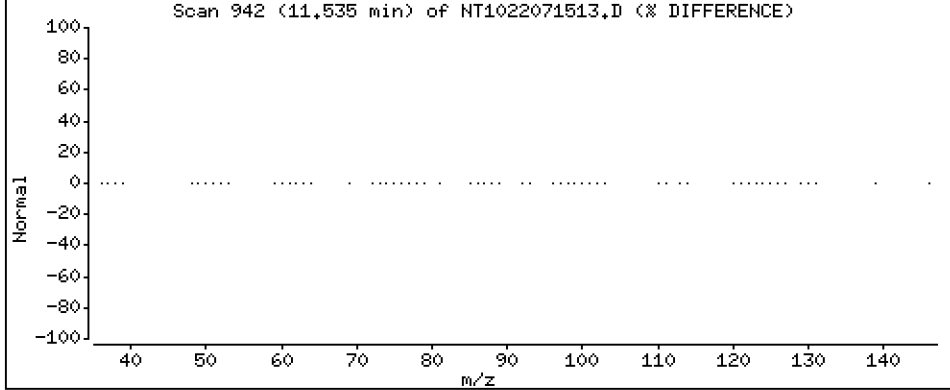
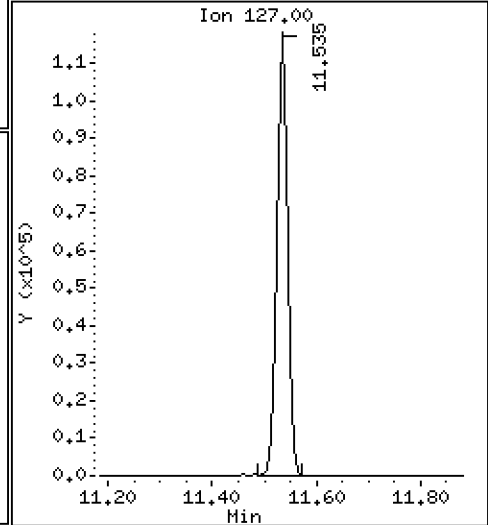
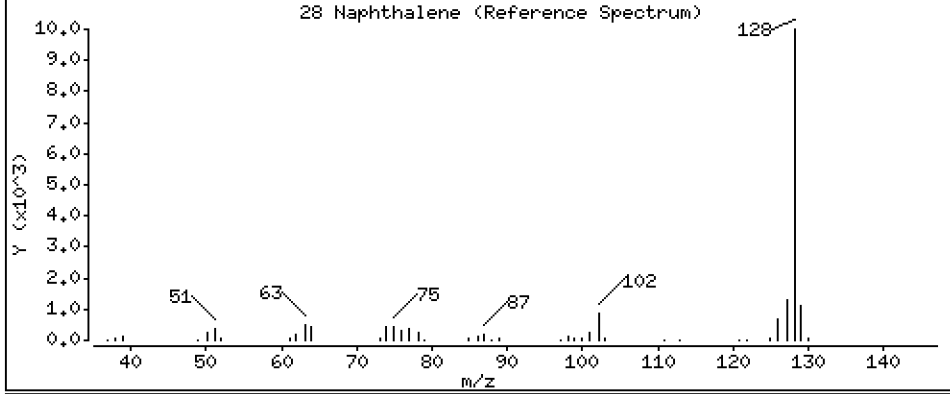
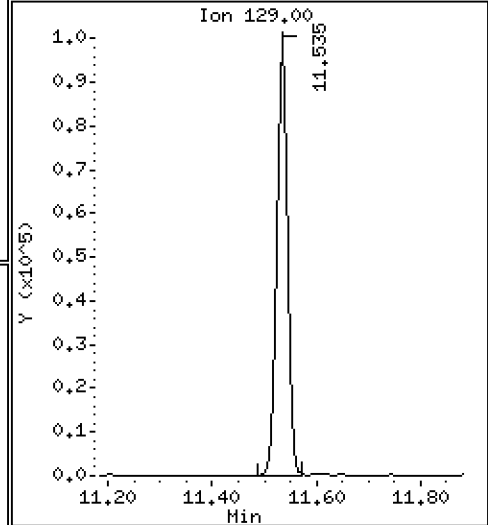
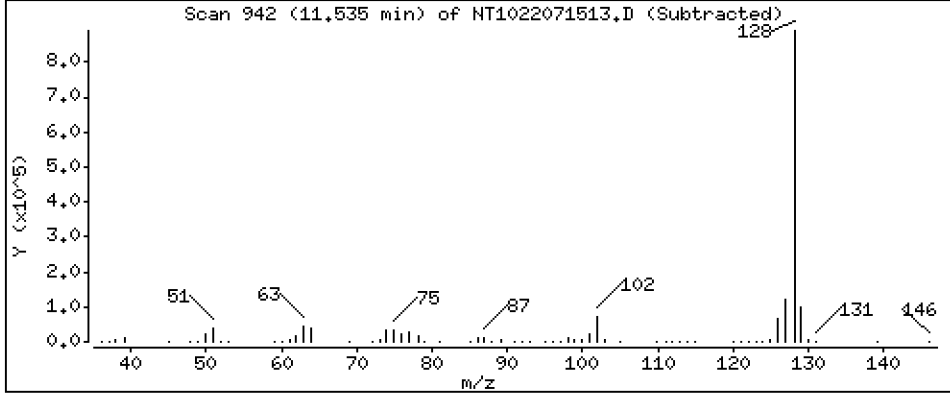
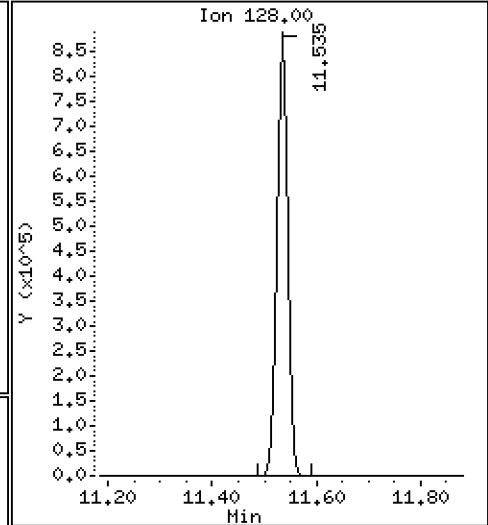
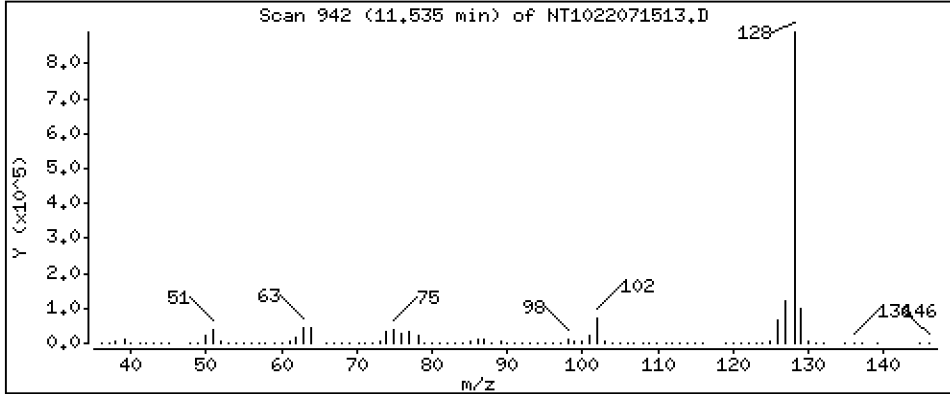
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 29,34 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

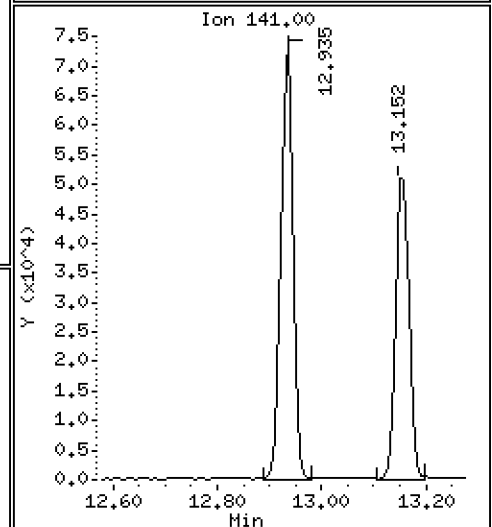
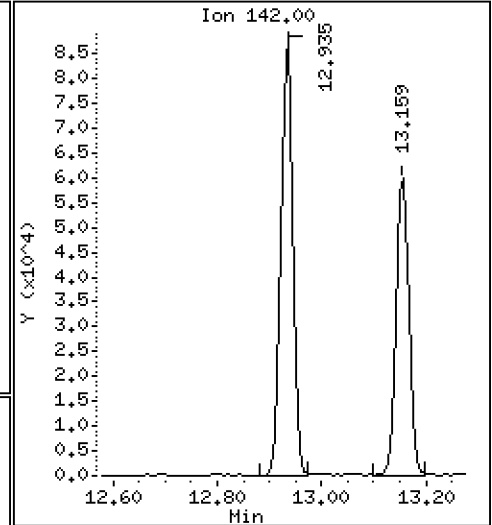
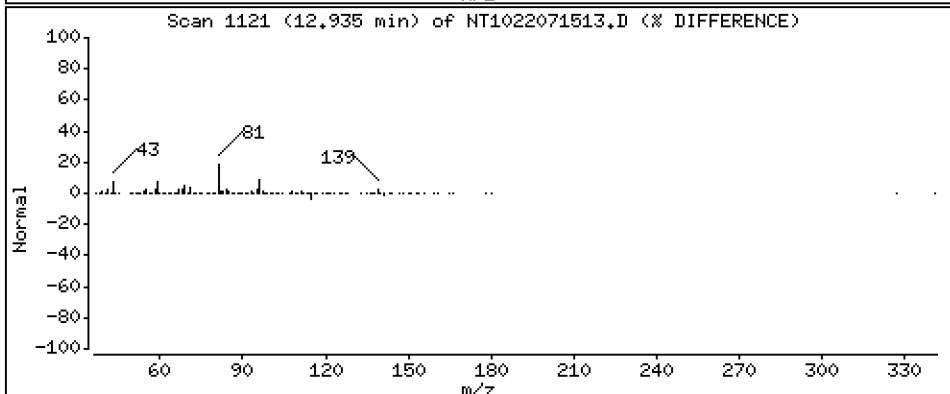
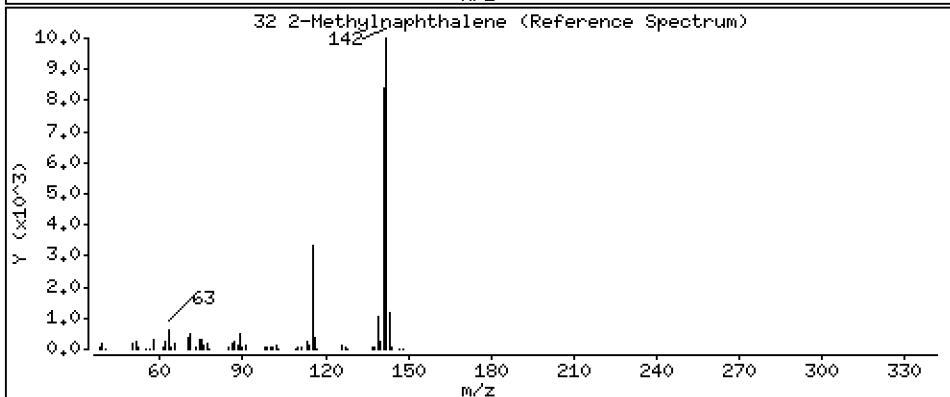
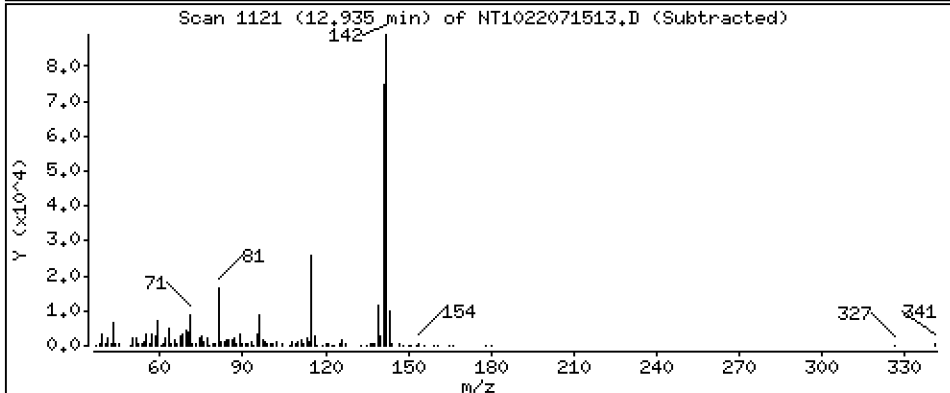
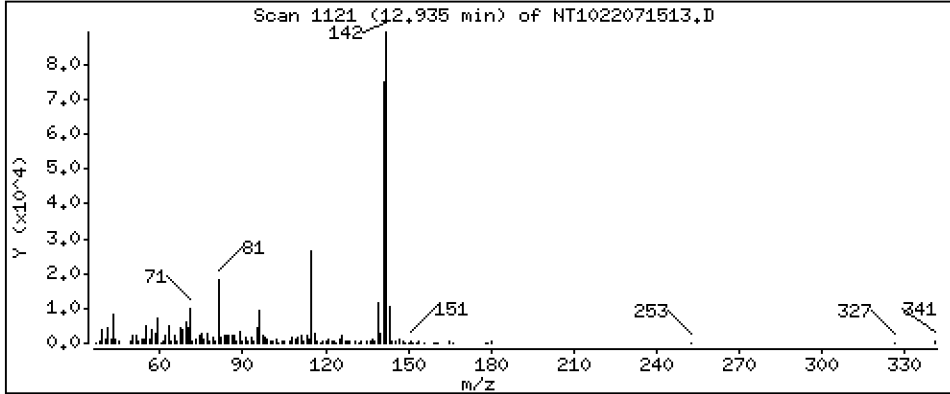
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 2,986 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

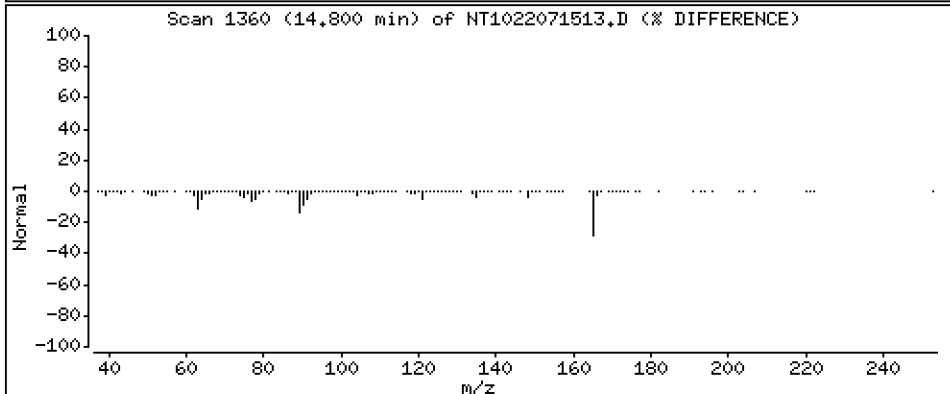
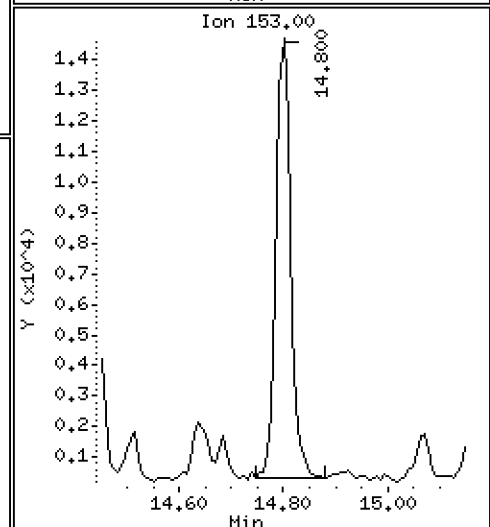
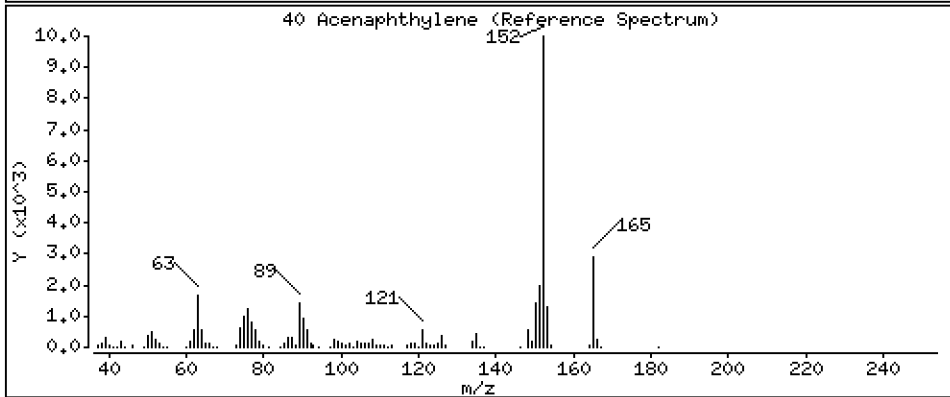
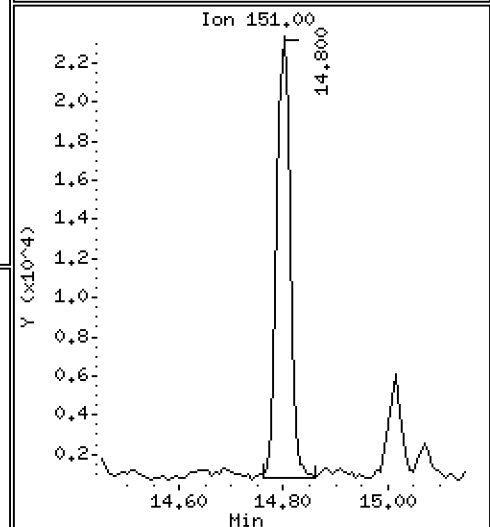
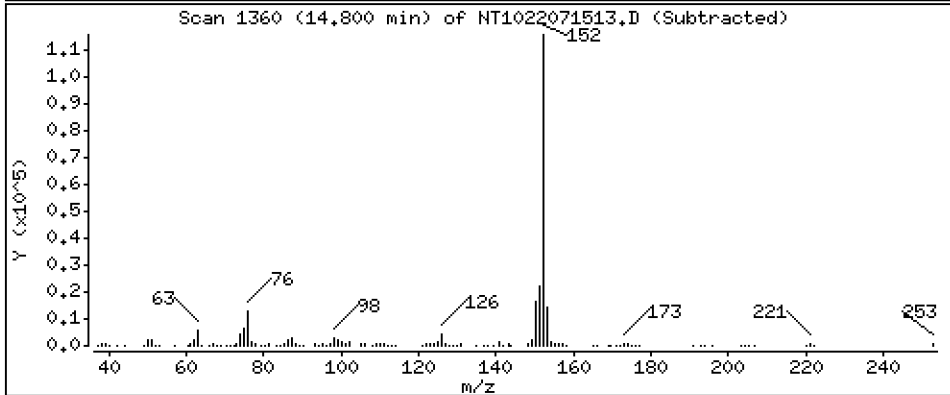
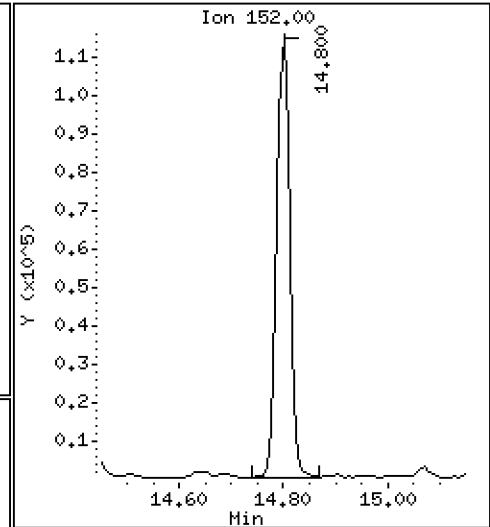
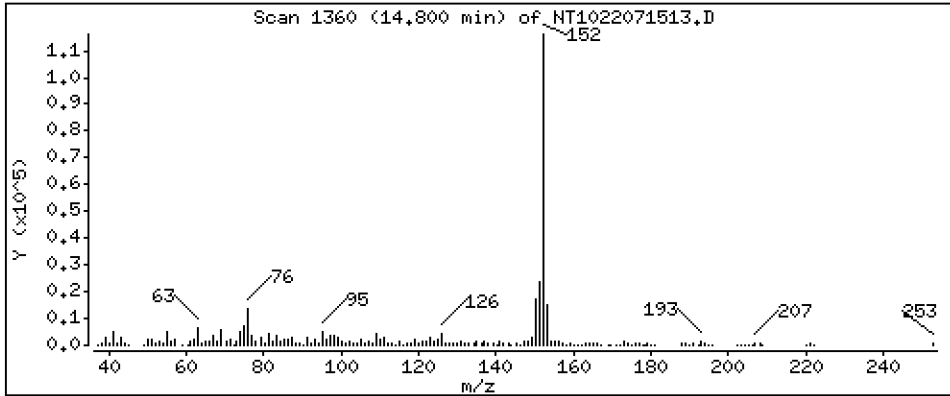
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,280 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

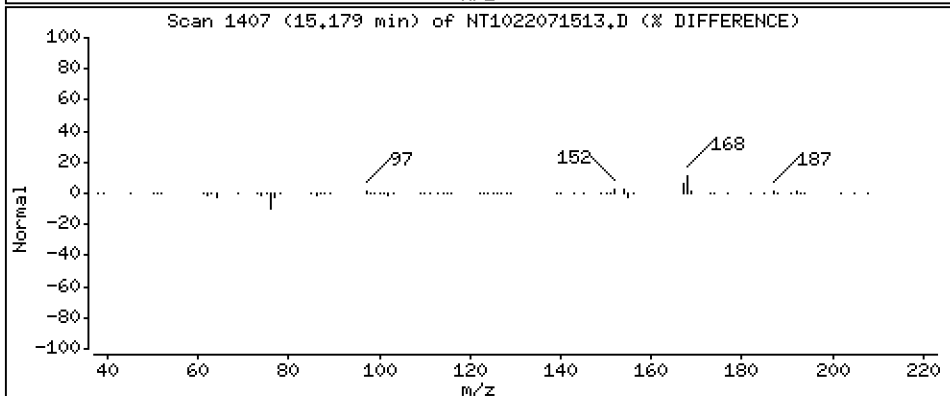
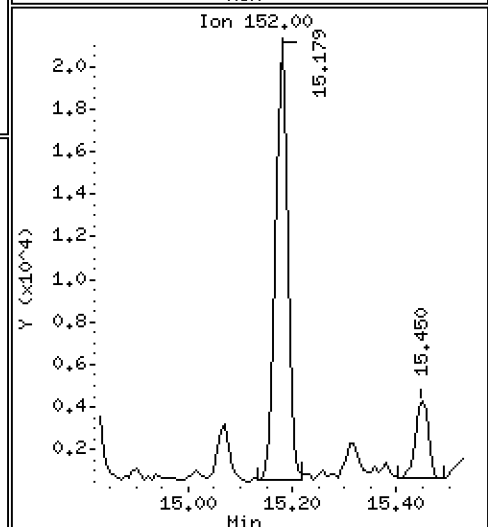
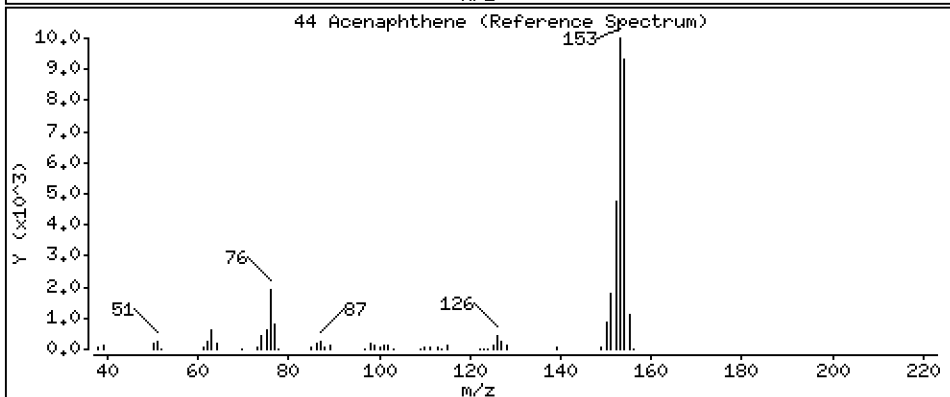
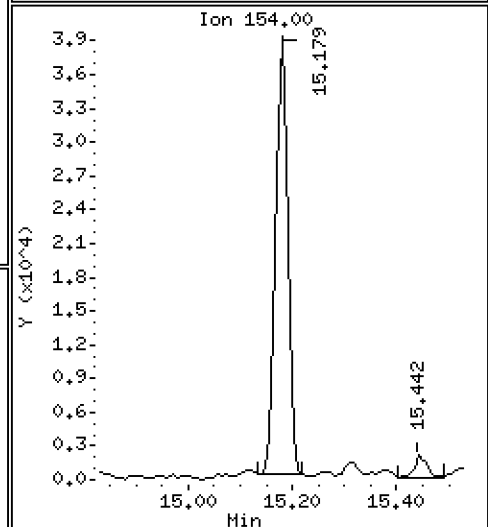
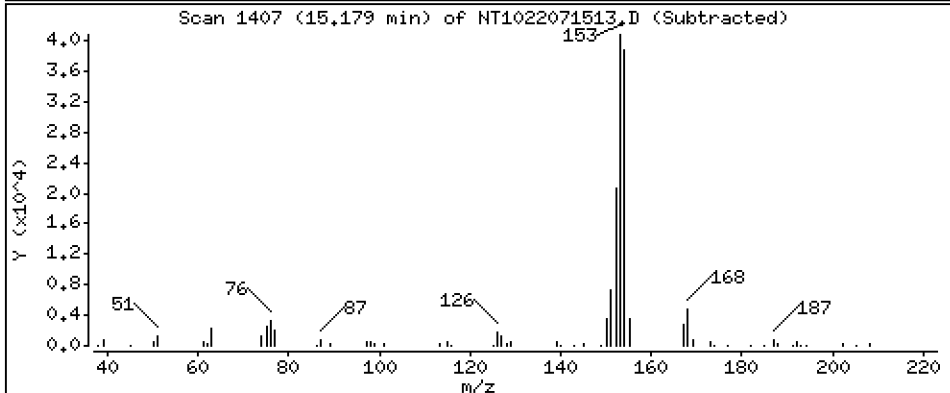
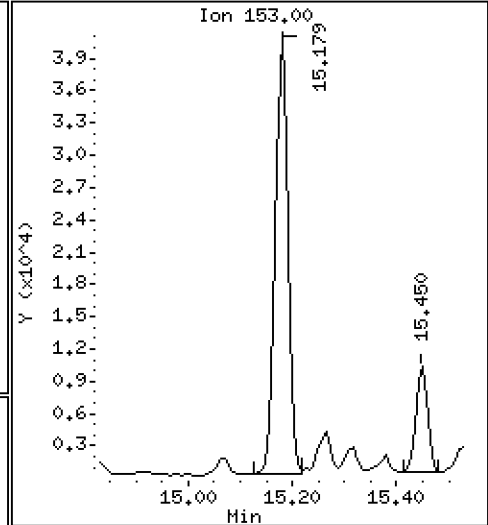
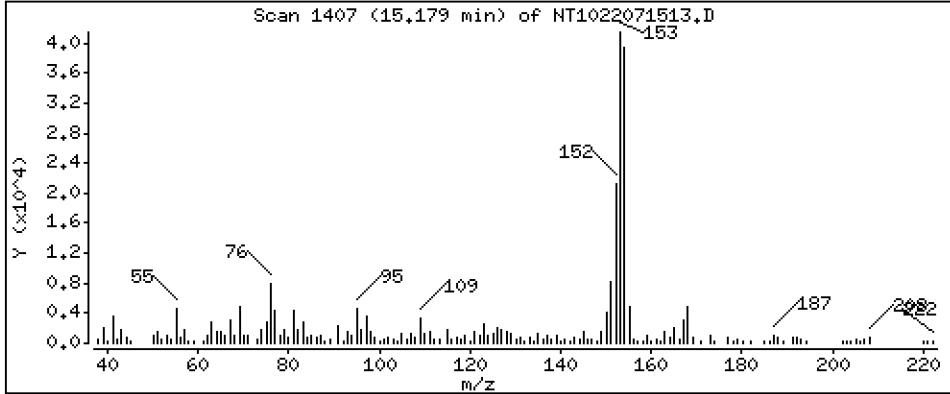
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 2,914 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

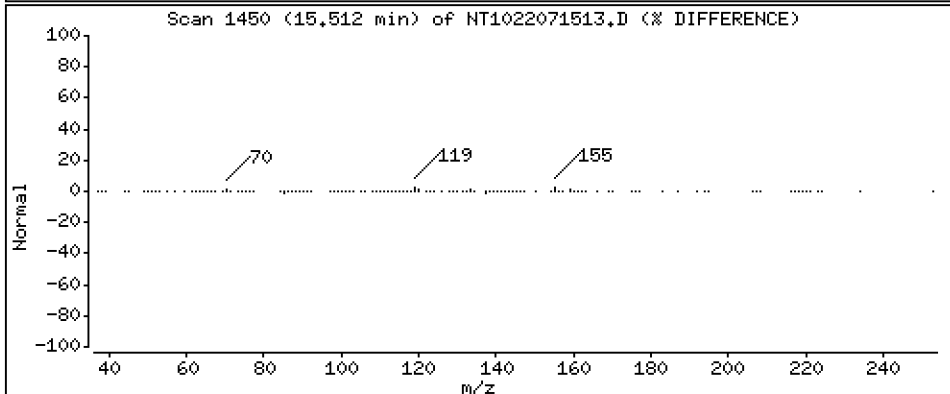
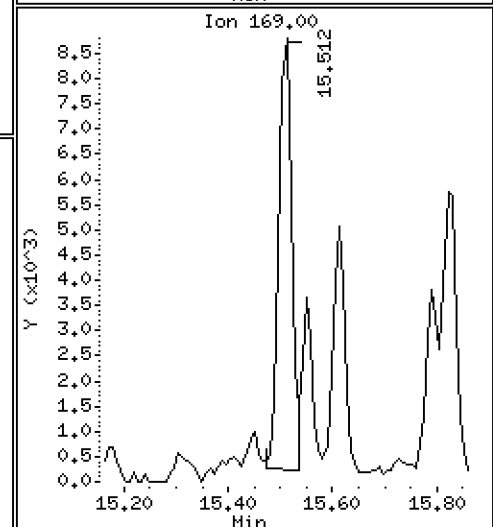
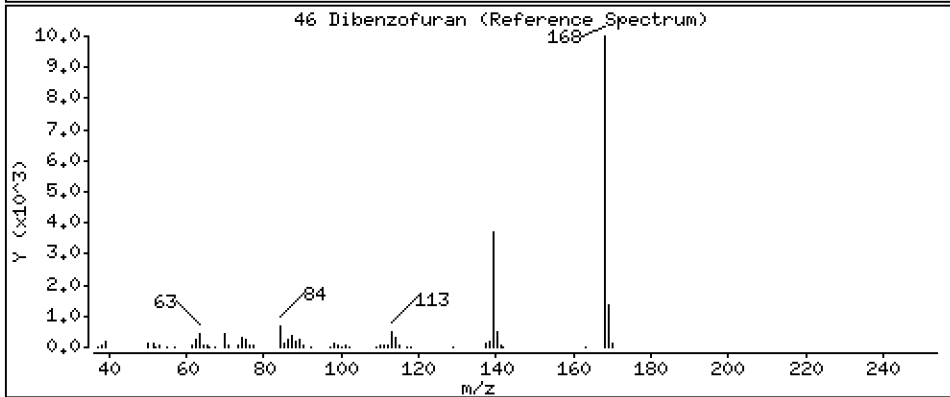
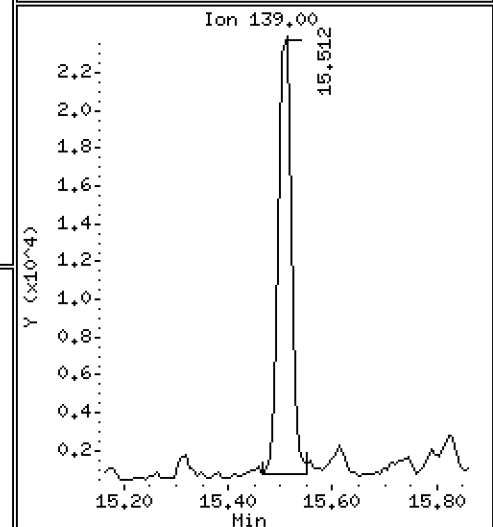
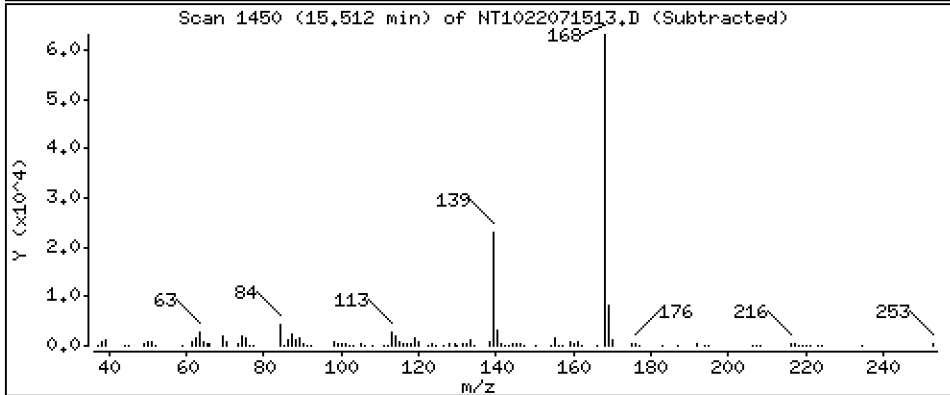
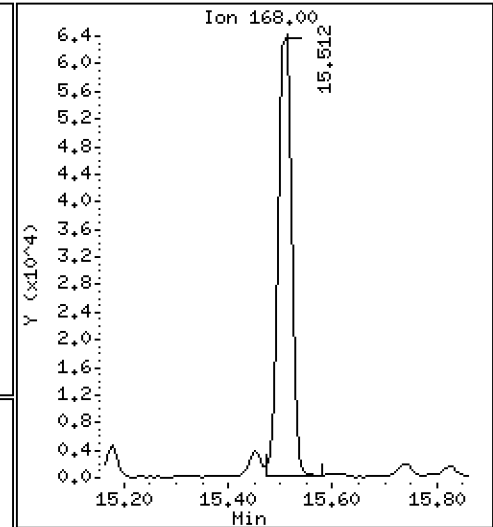
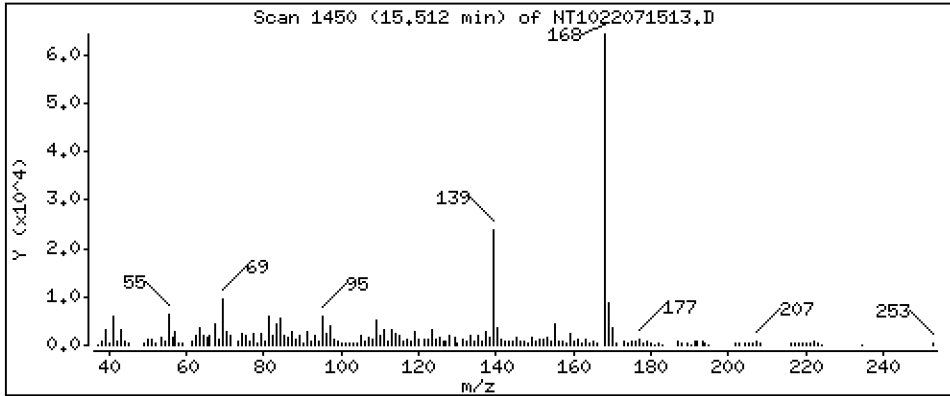
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 3,045 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

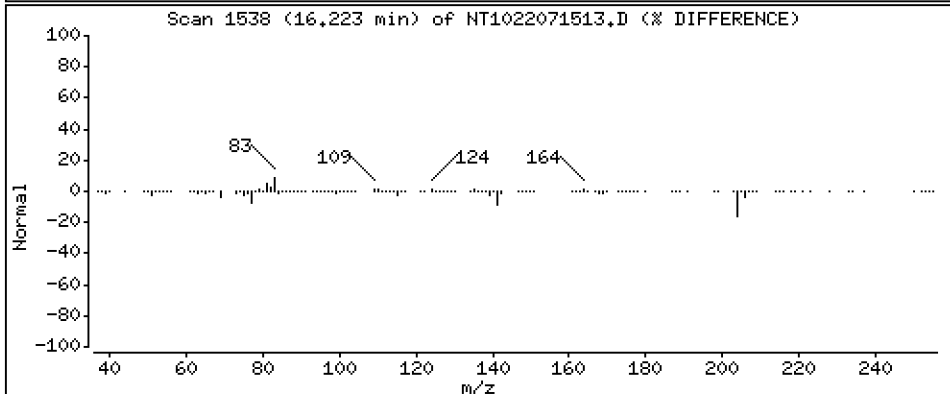
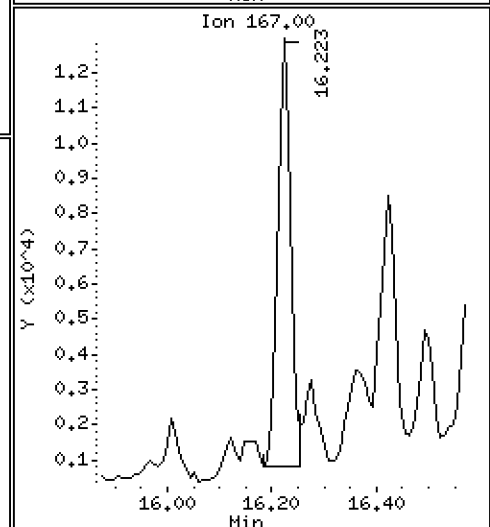
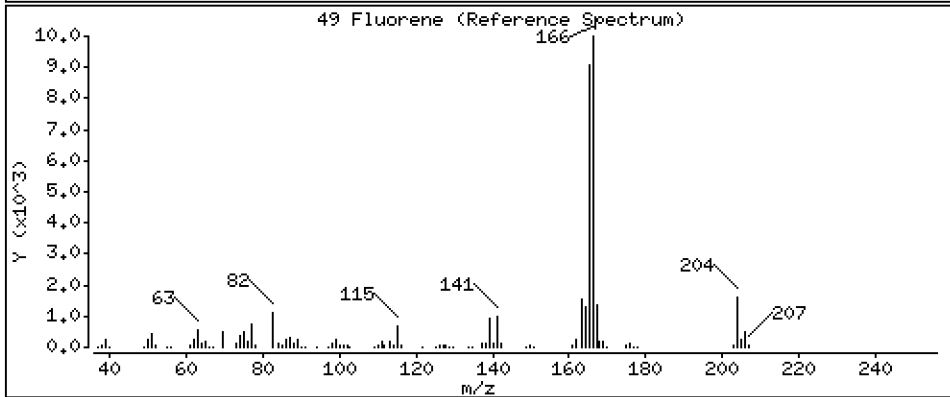
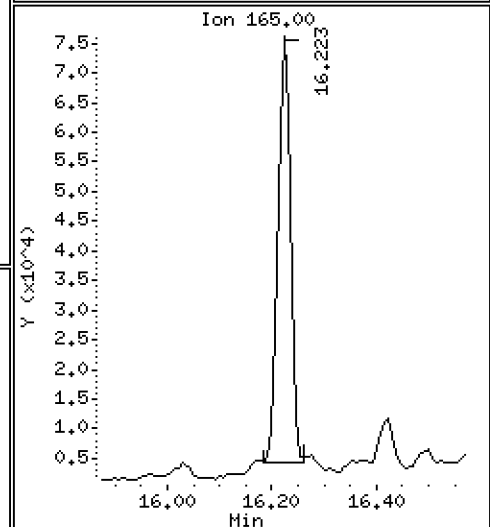
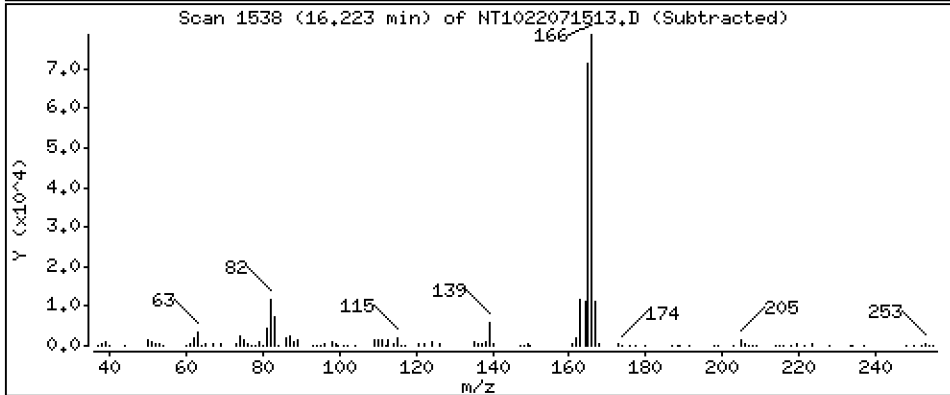
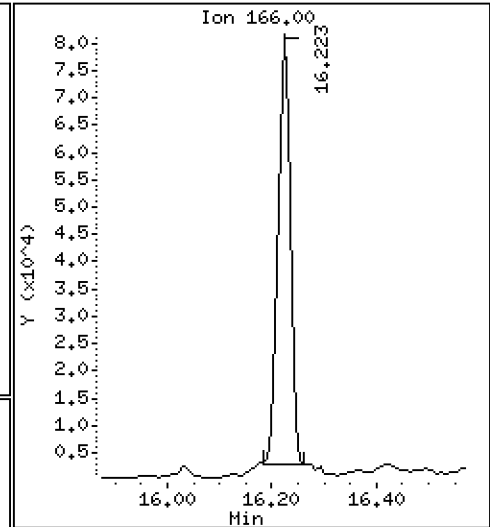
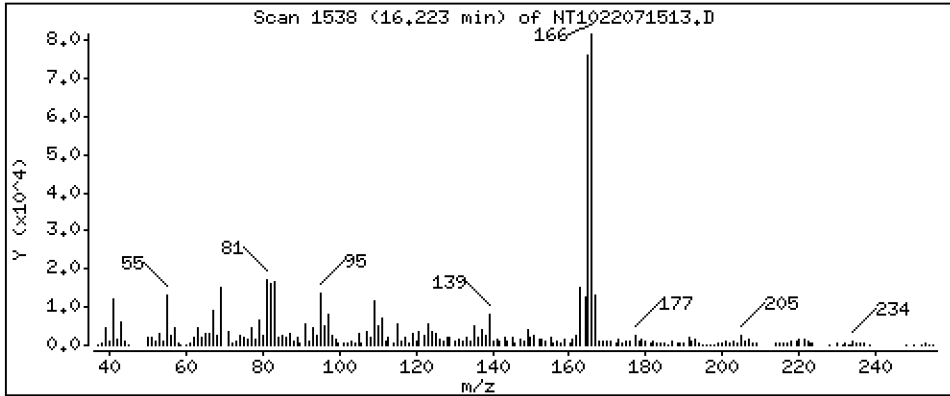
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 2,956 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

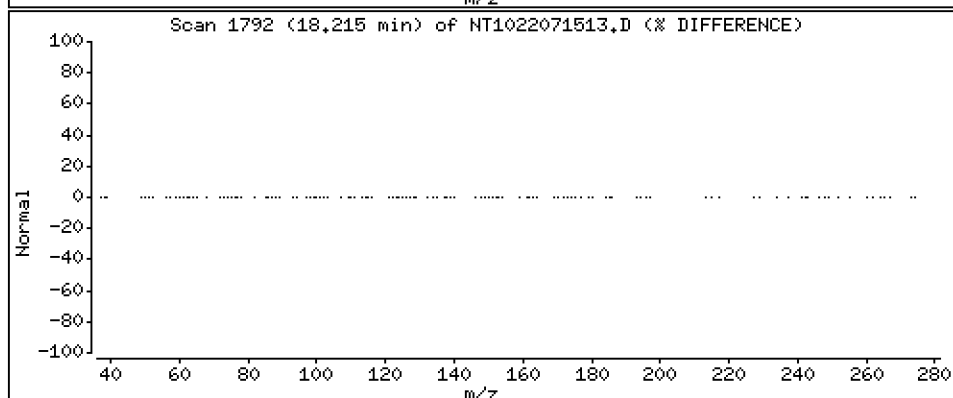
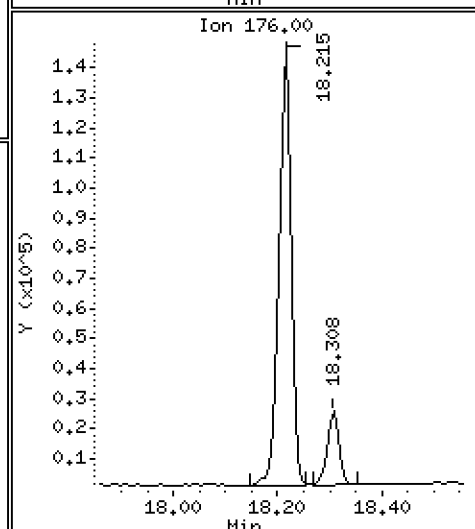
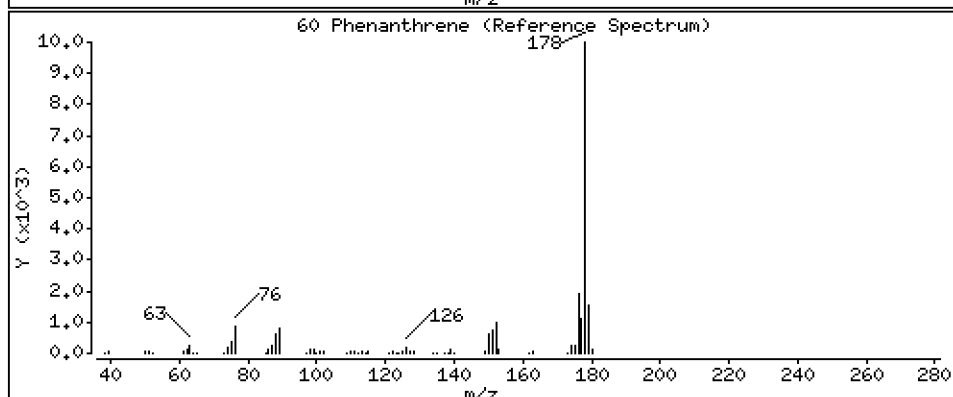
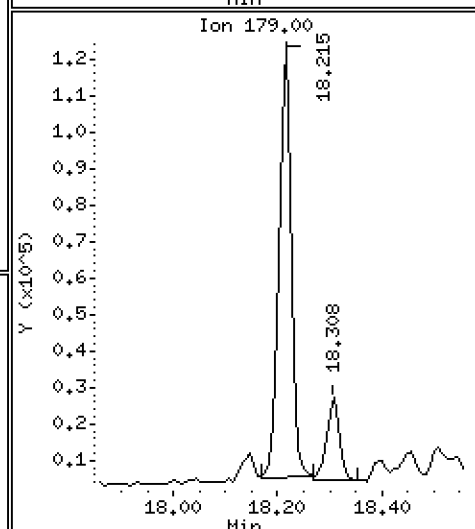
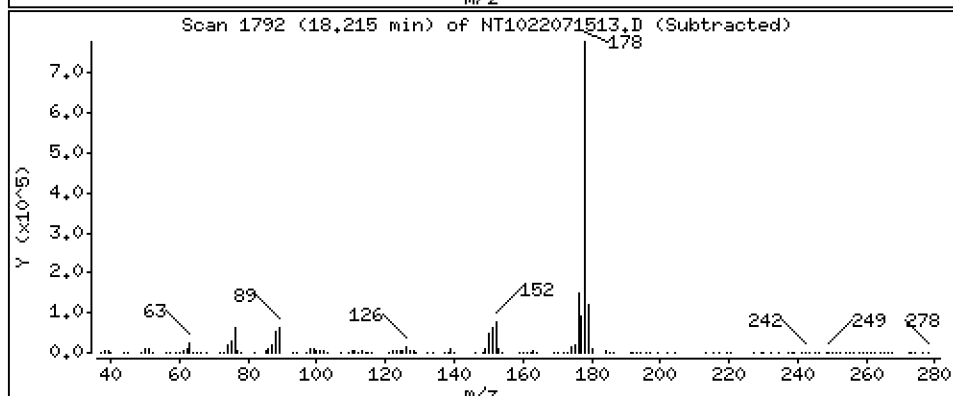
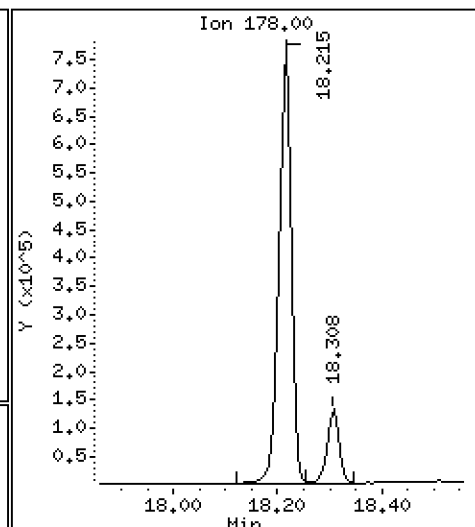
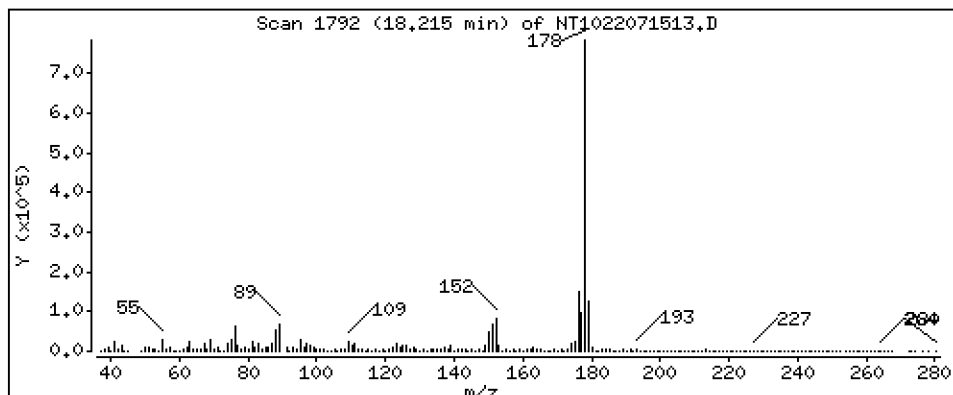
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 52,34 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

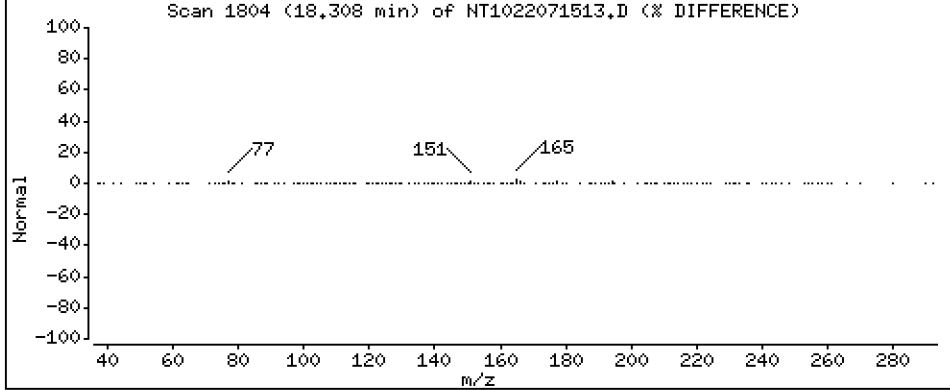
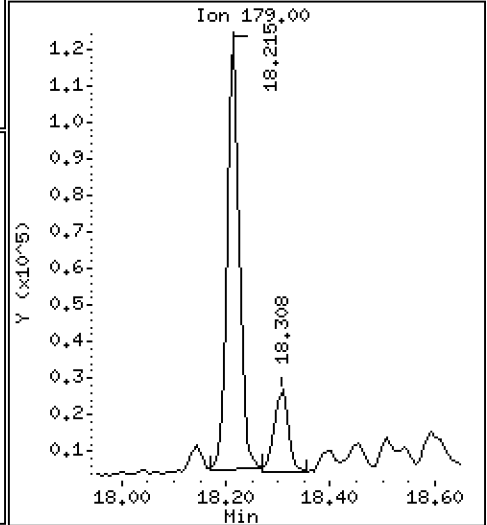
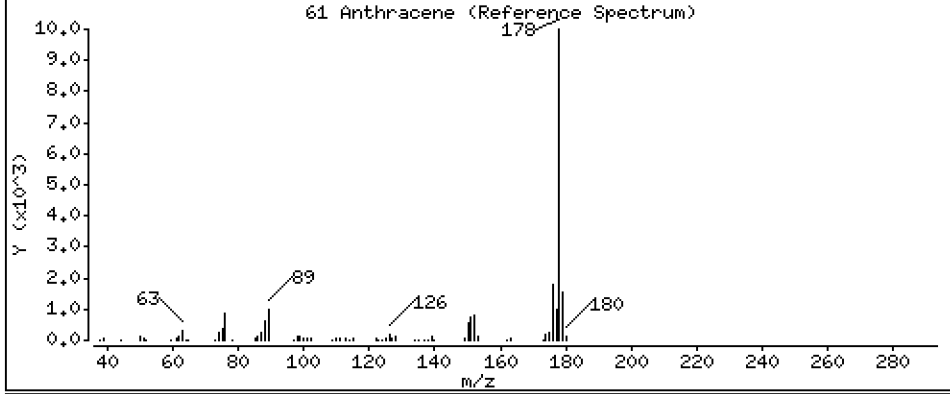
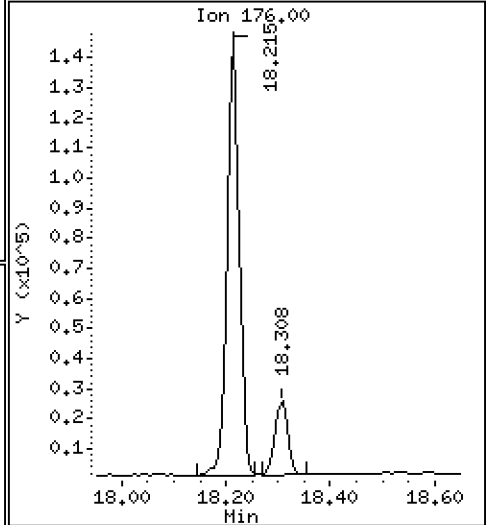
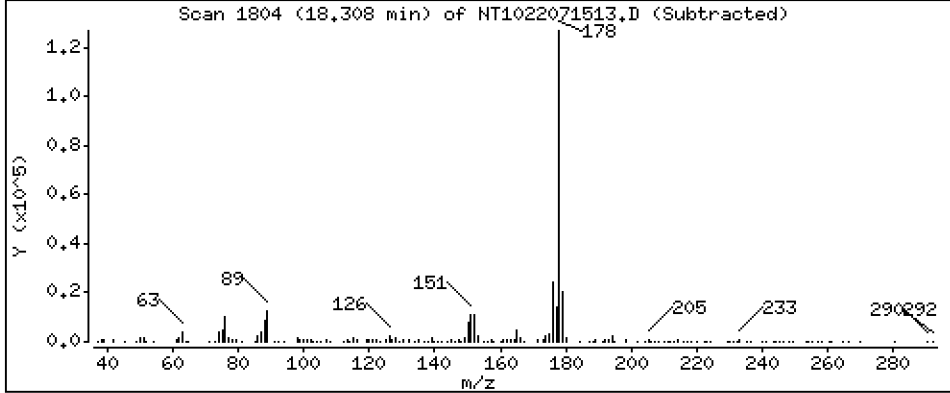
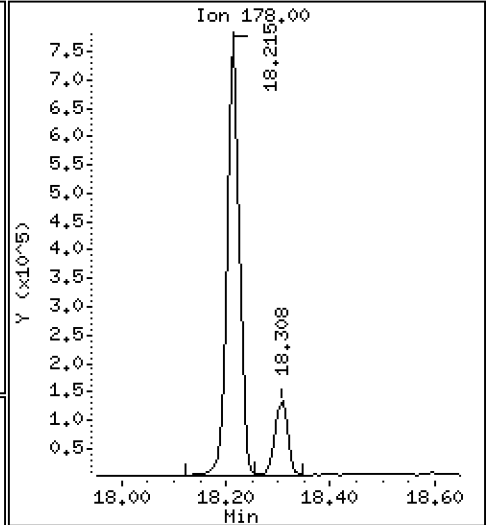
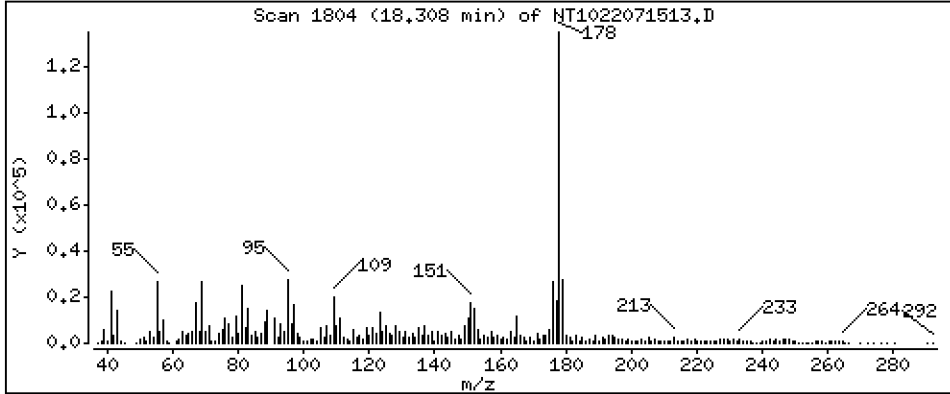
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 8,568 ug/mL

61 Anthracene



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

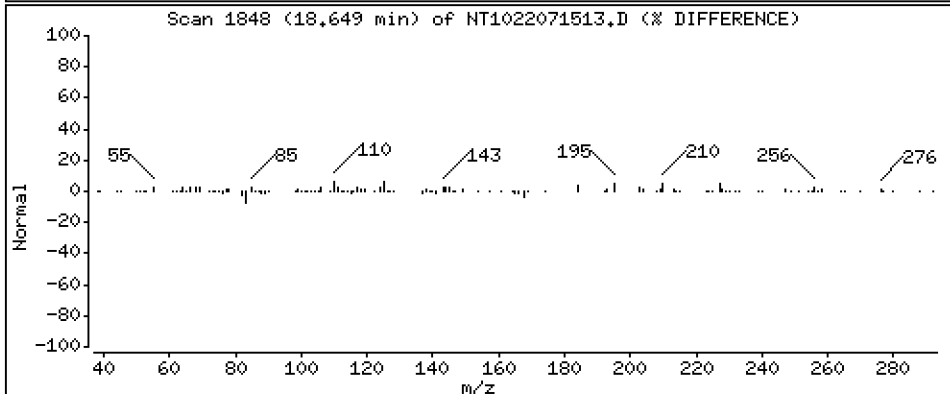
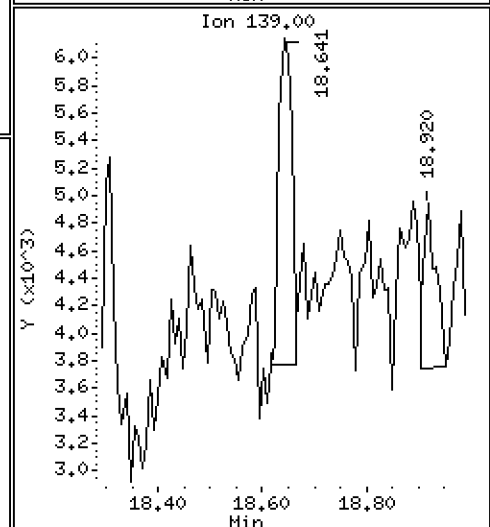
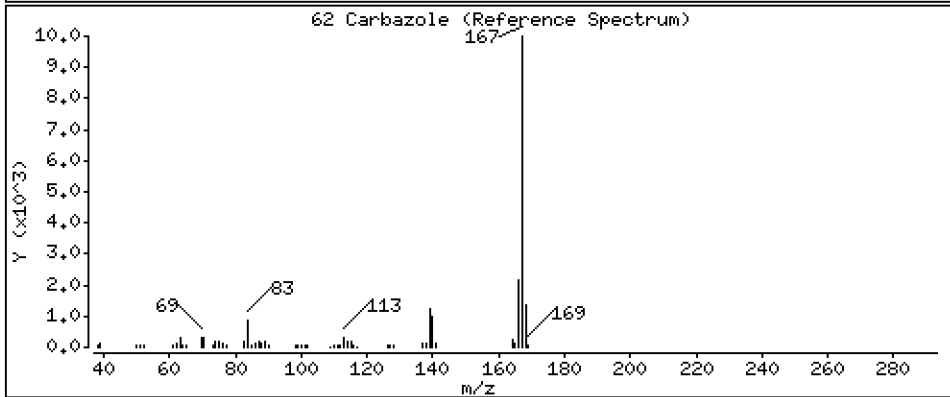
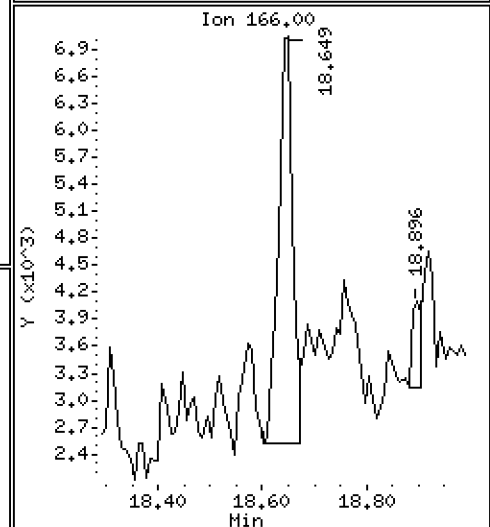
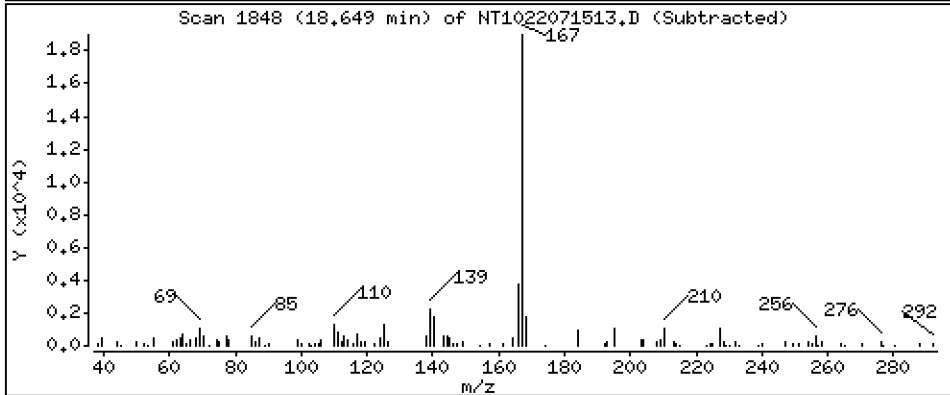
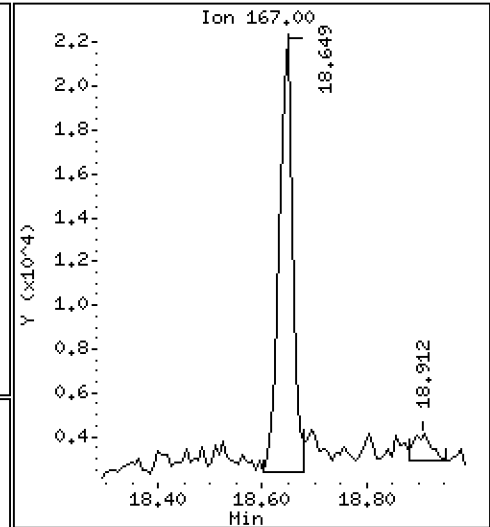
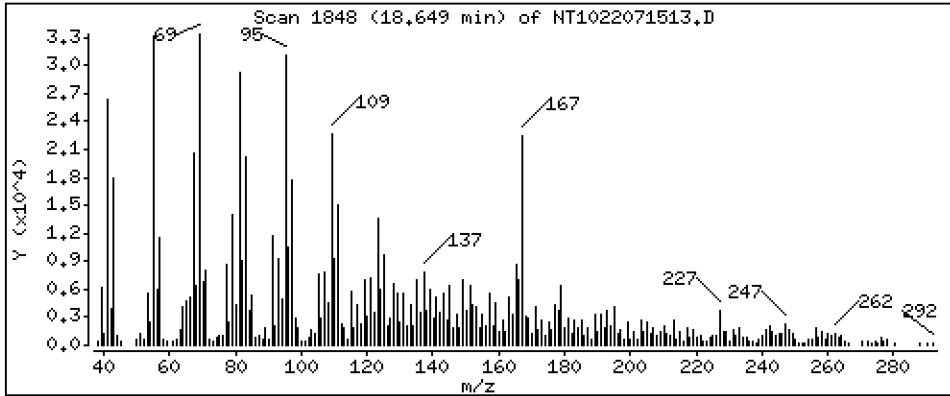
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 1,515 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

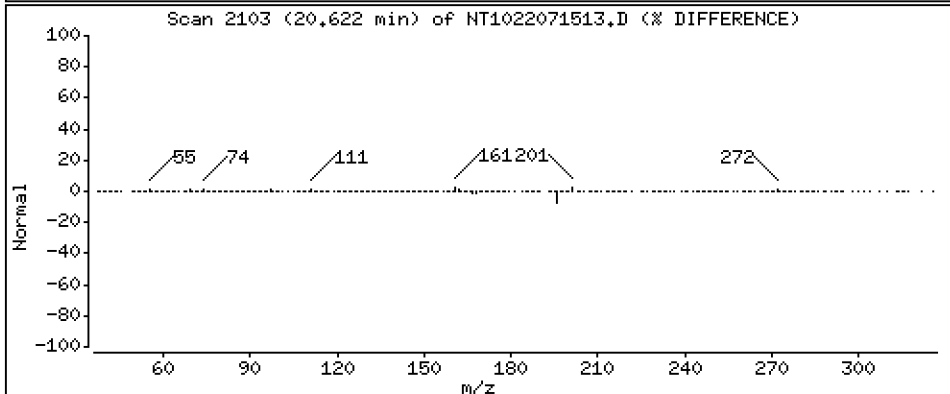
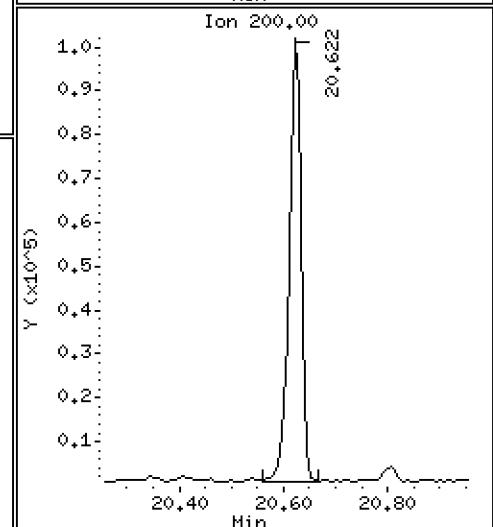
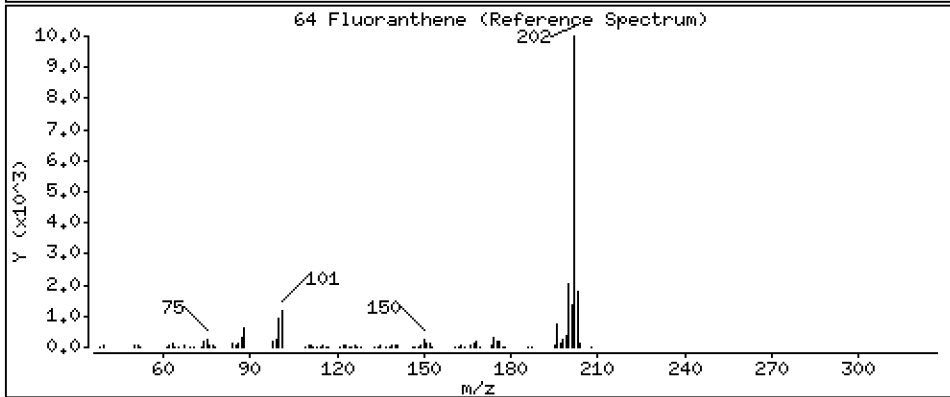
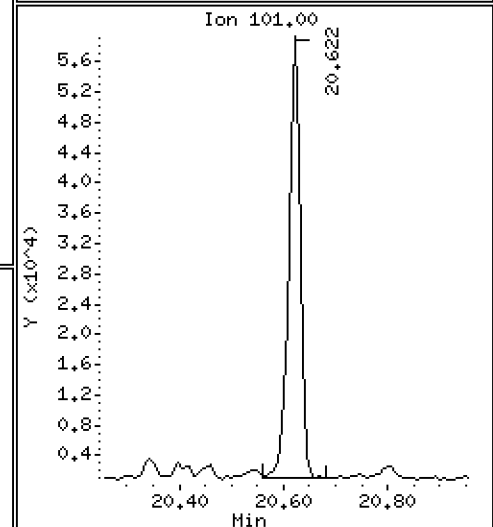
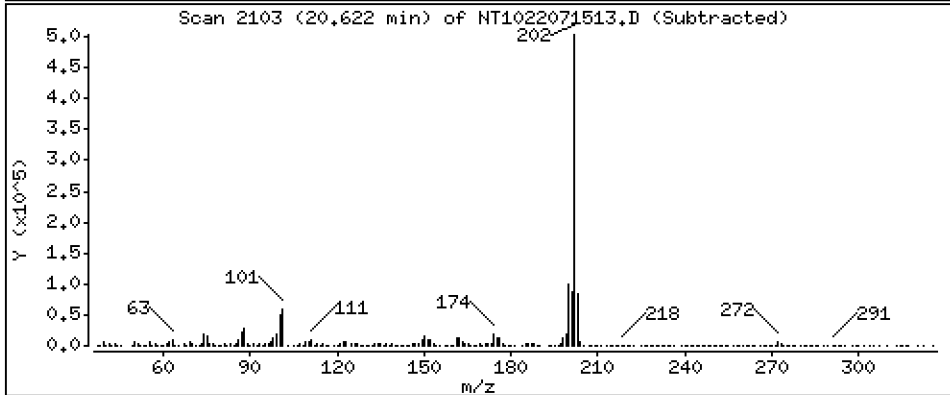
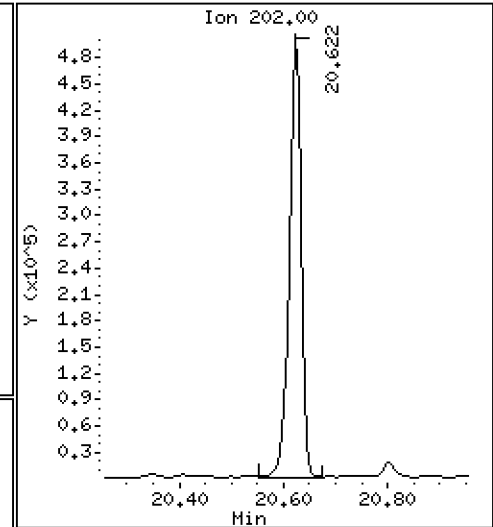
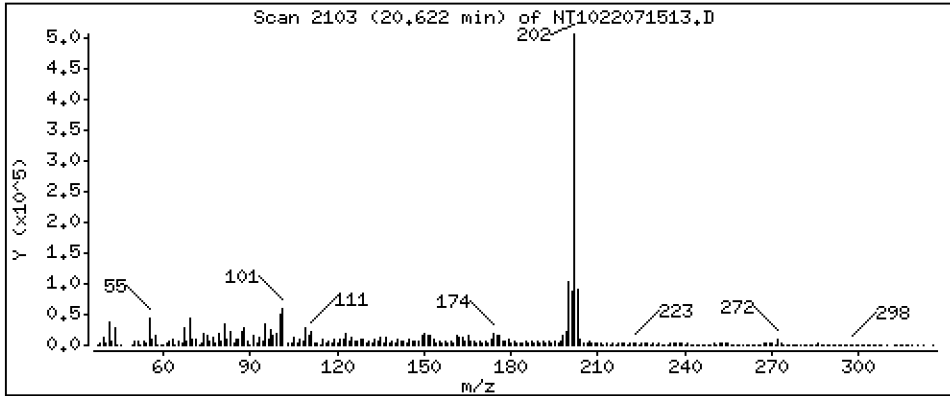
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 52,57 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 2200019-06RE1,5

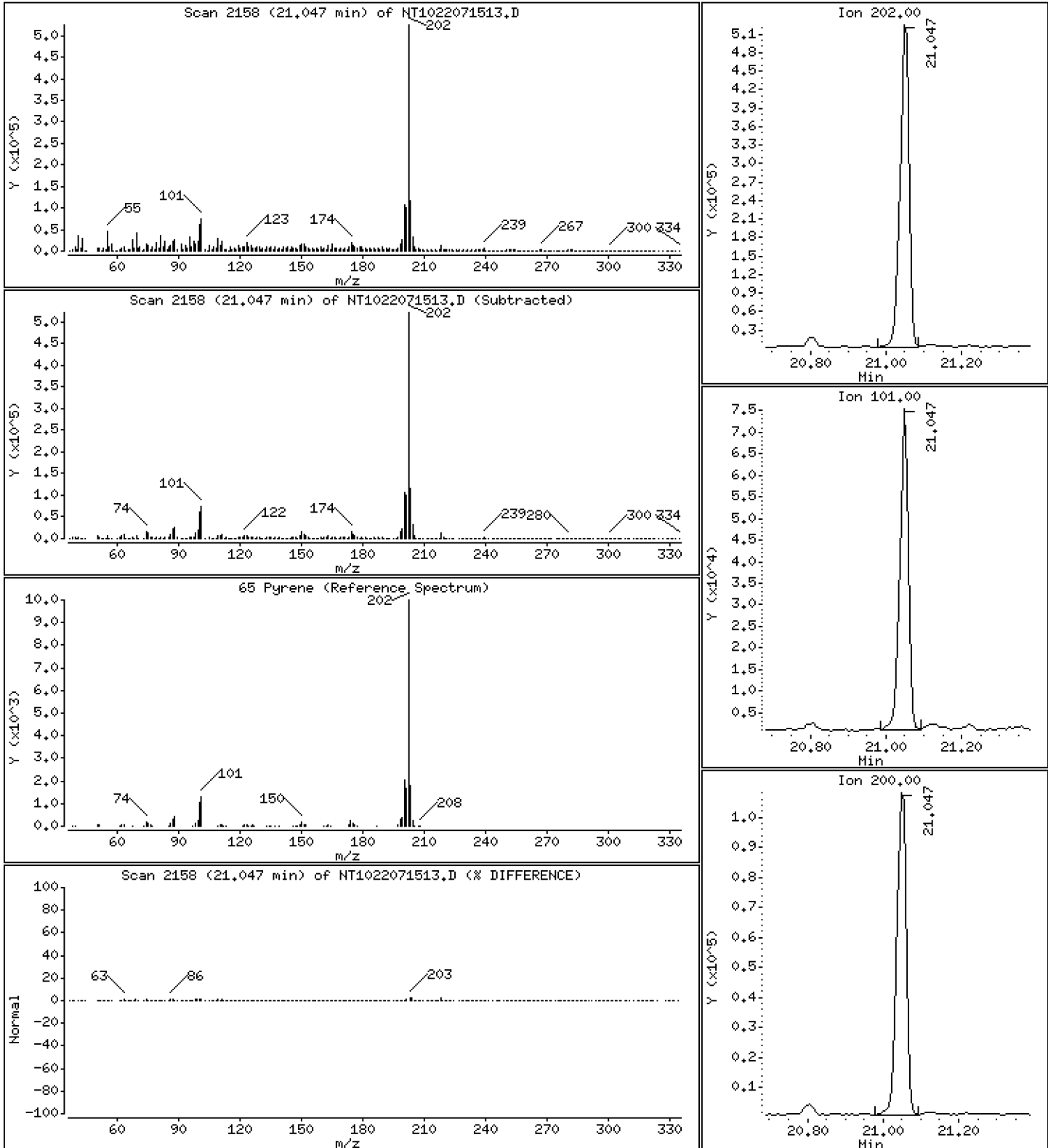
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 61,88 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

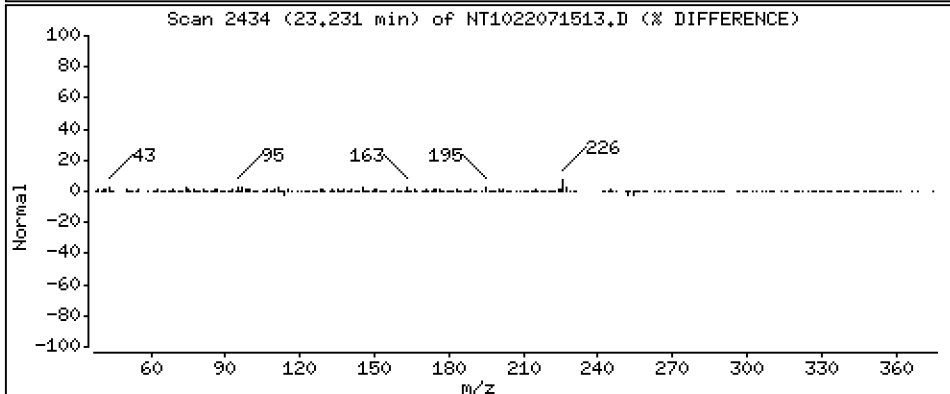
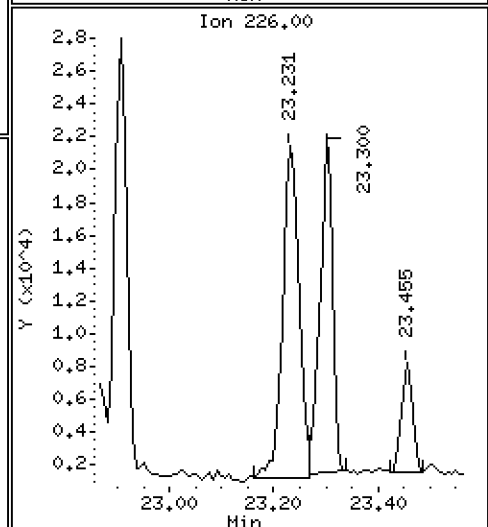
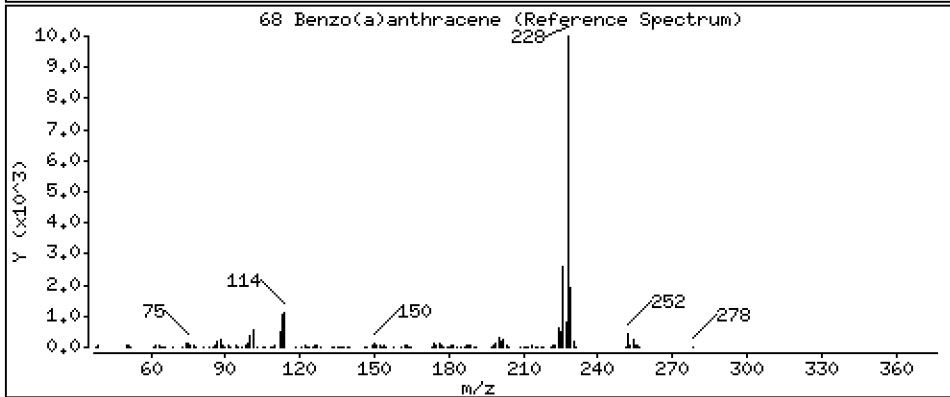
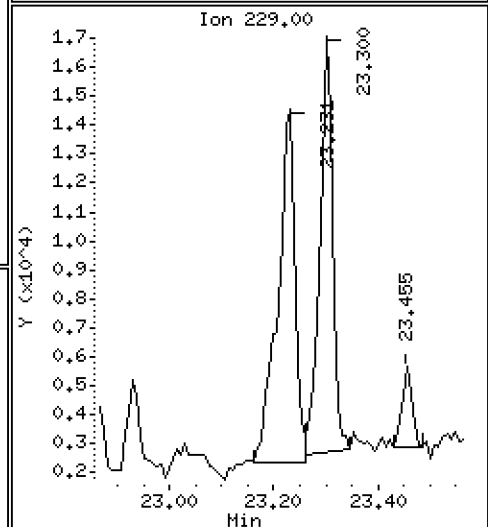
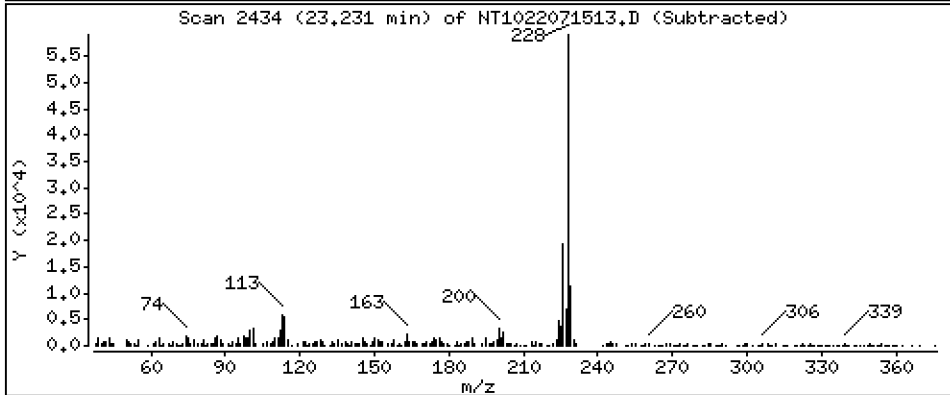
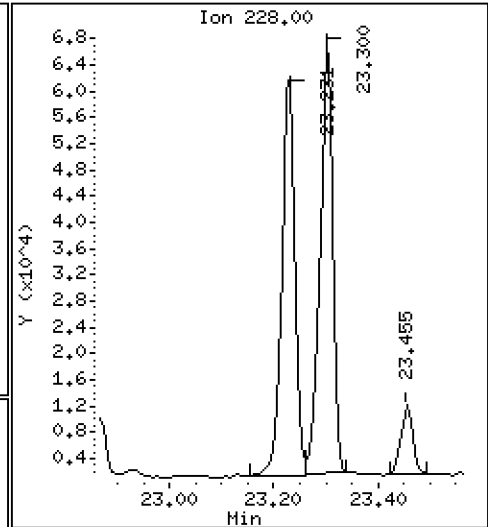
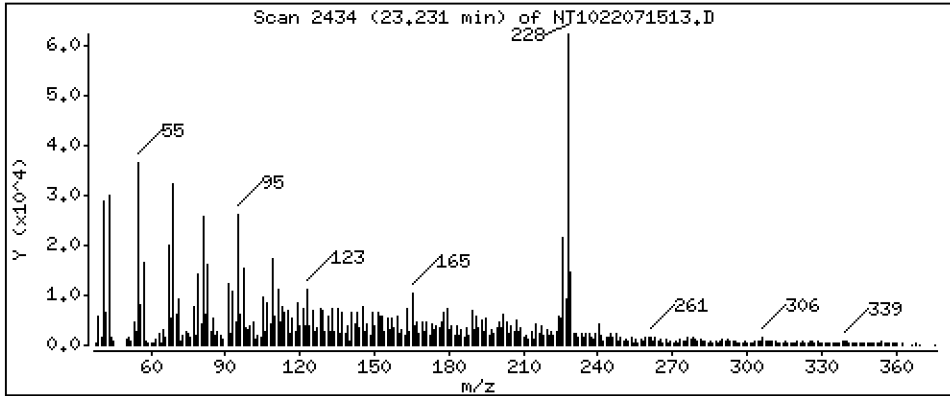
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 12,71 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 2200019-06RE1,5

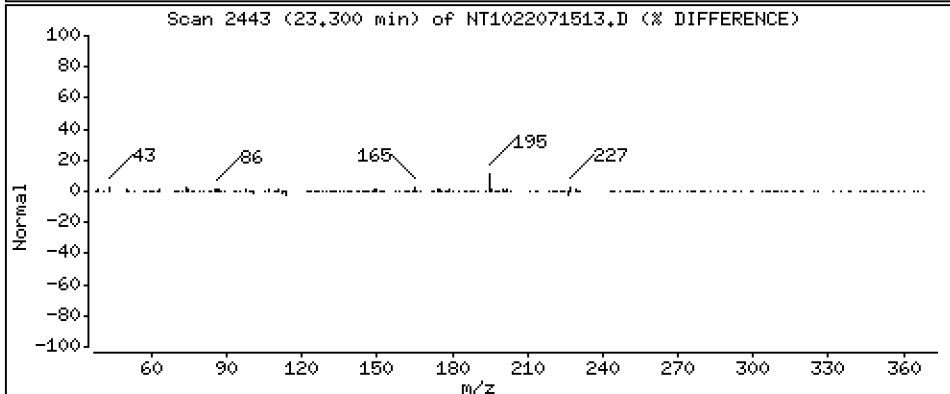
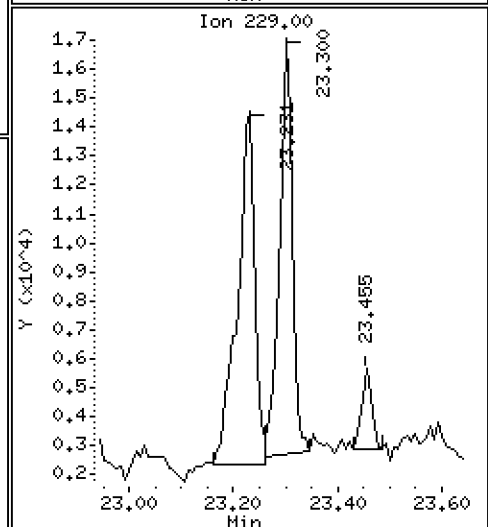
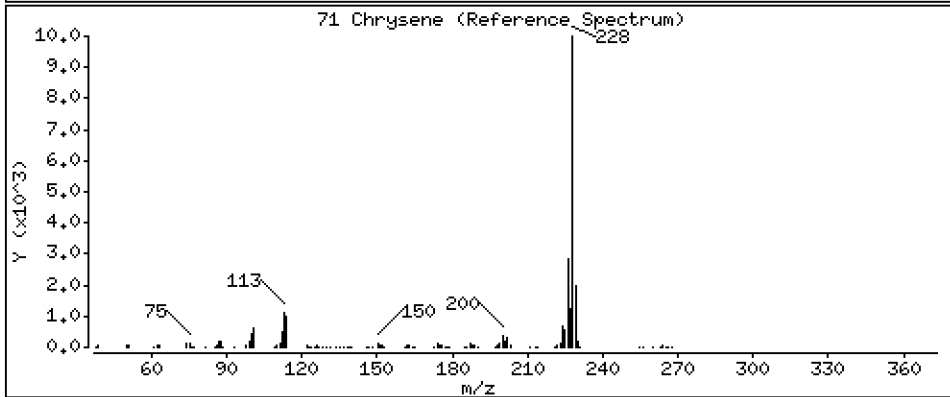
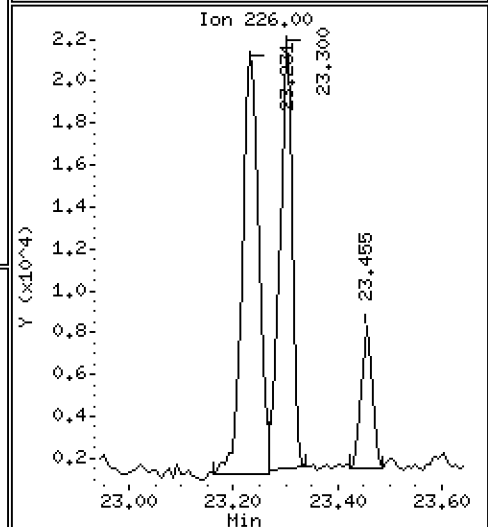
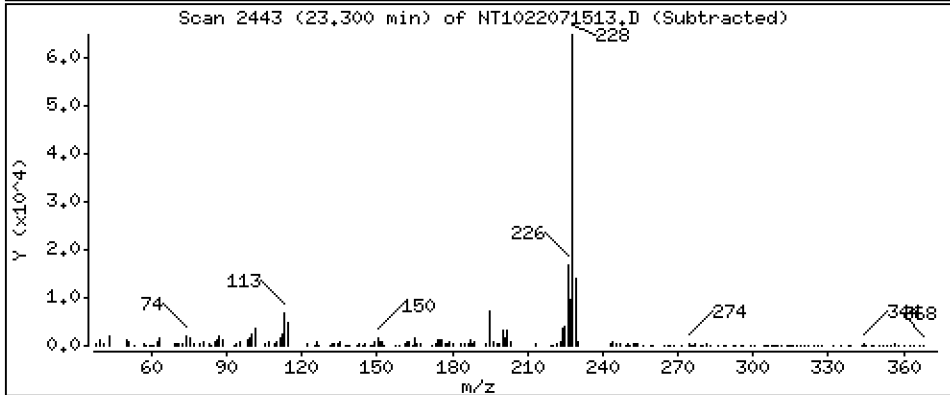
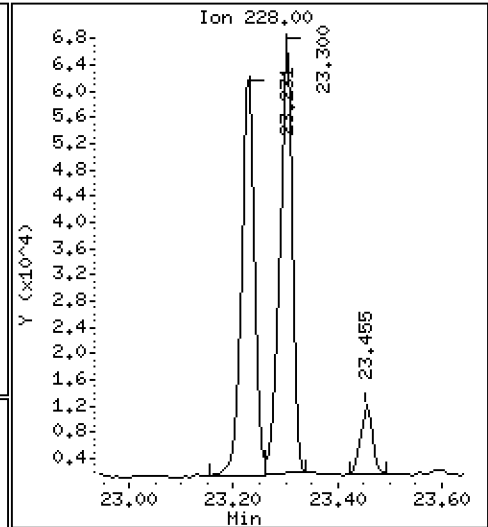
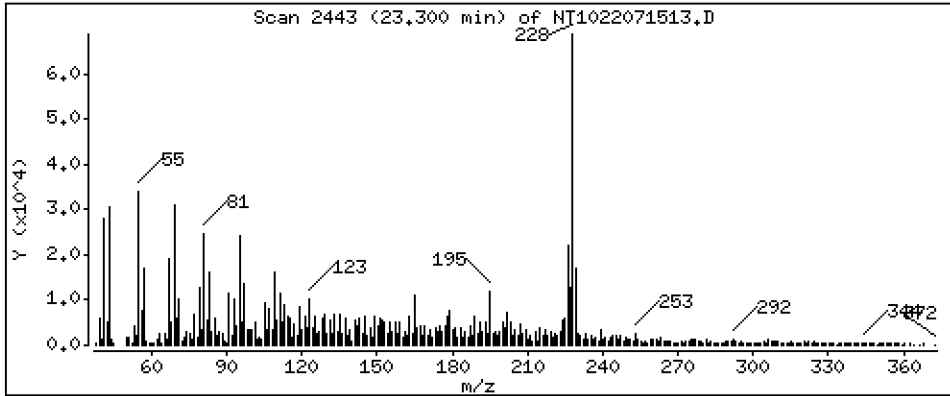
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 18,73 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

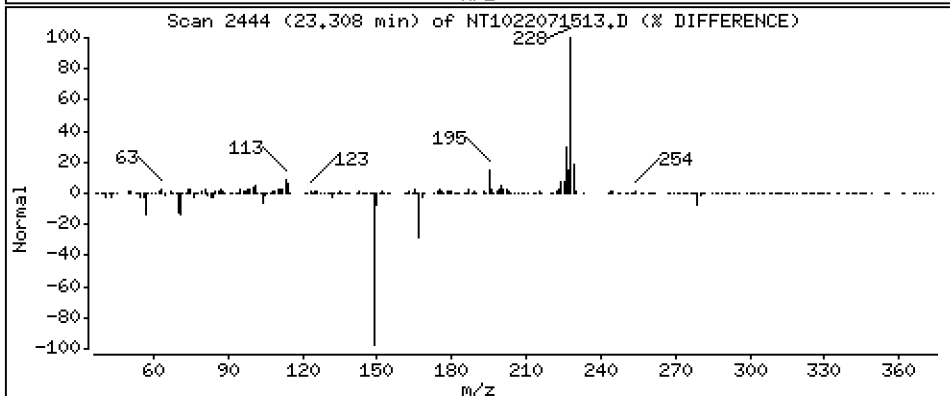
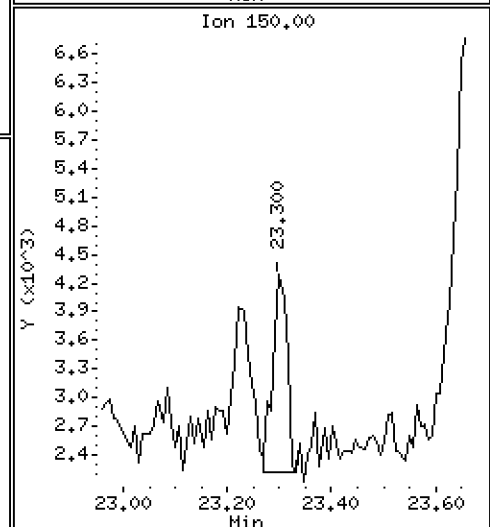
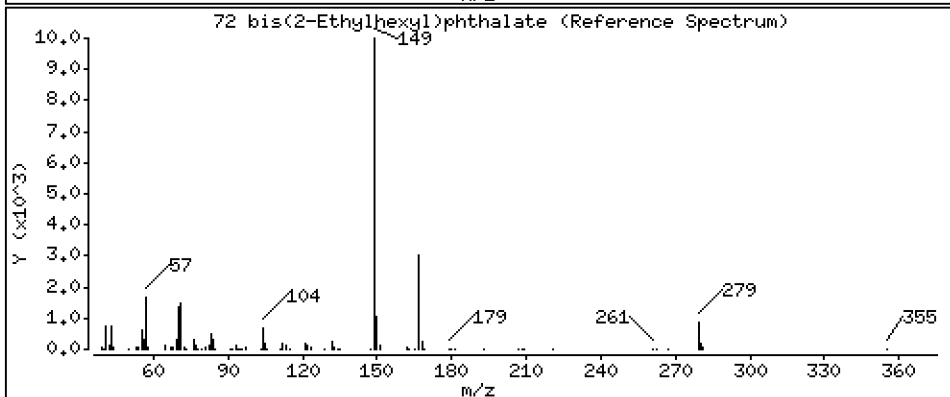
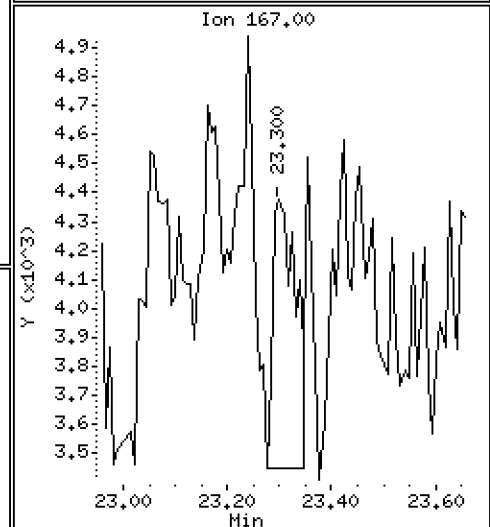
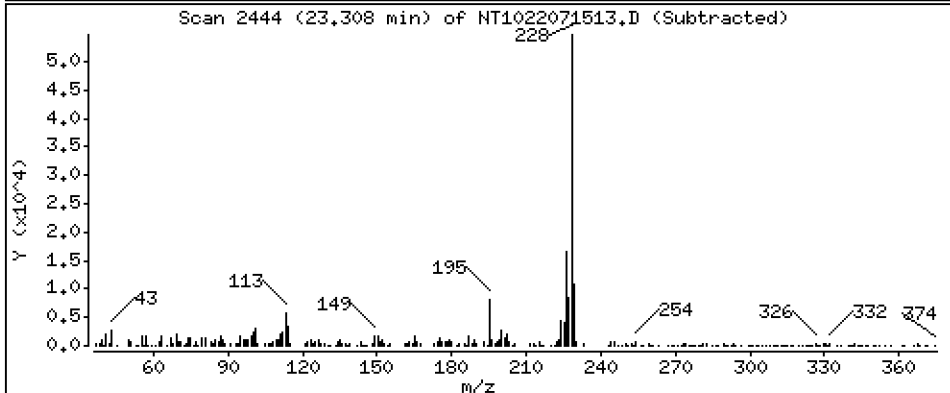
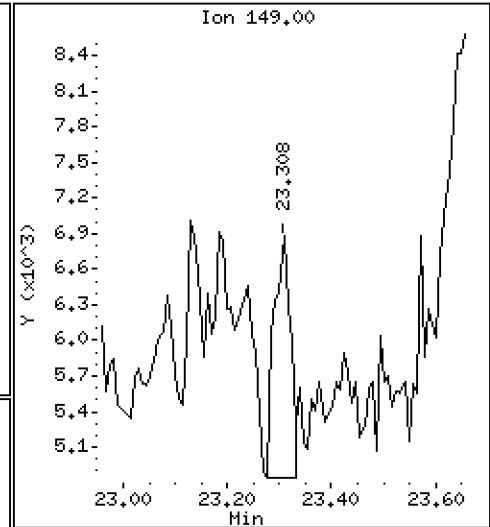
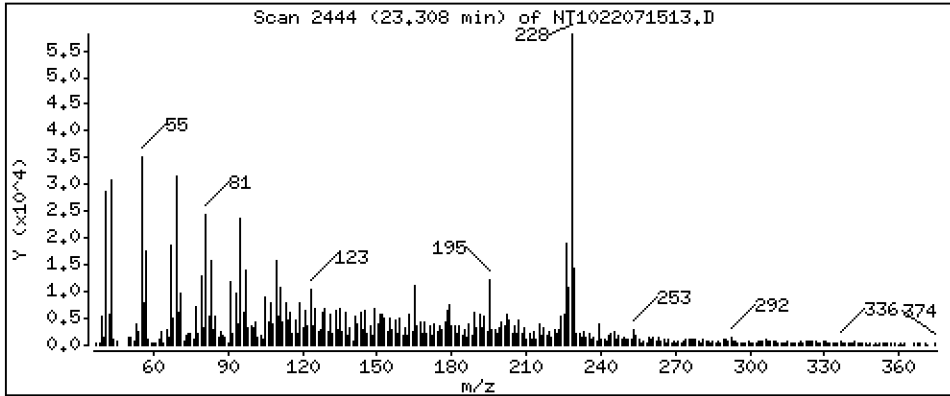
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,9829 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

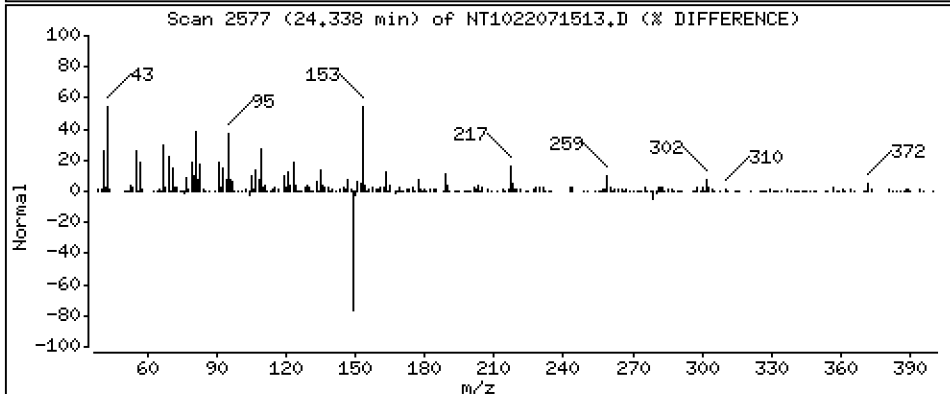
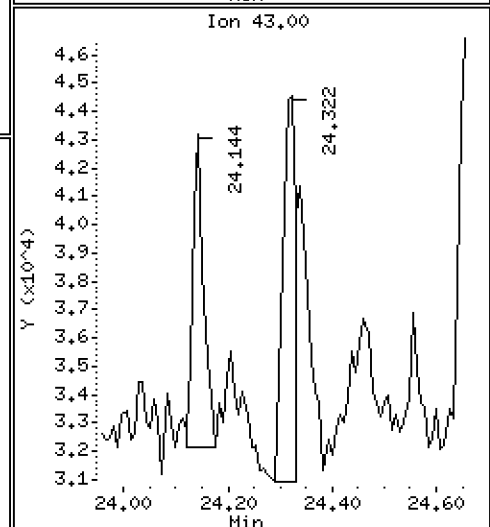
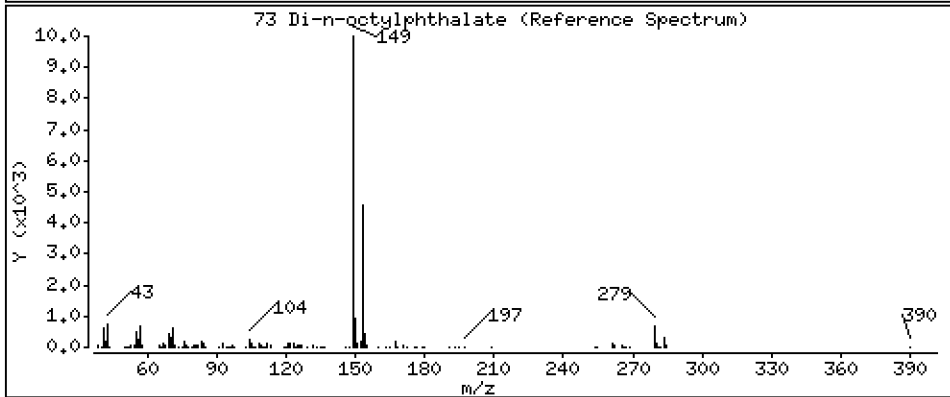
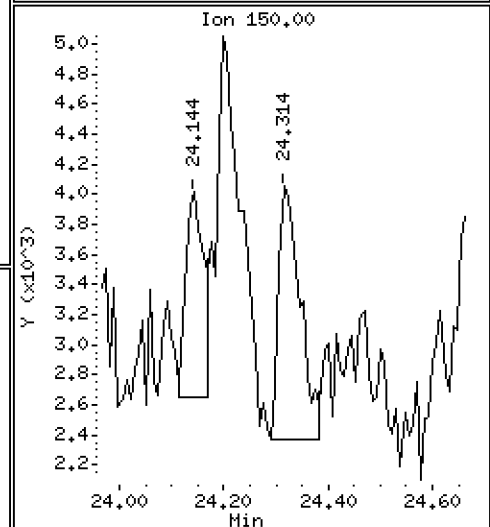
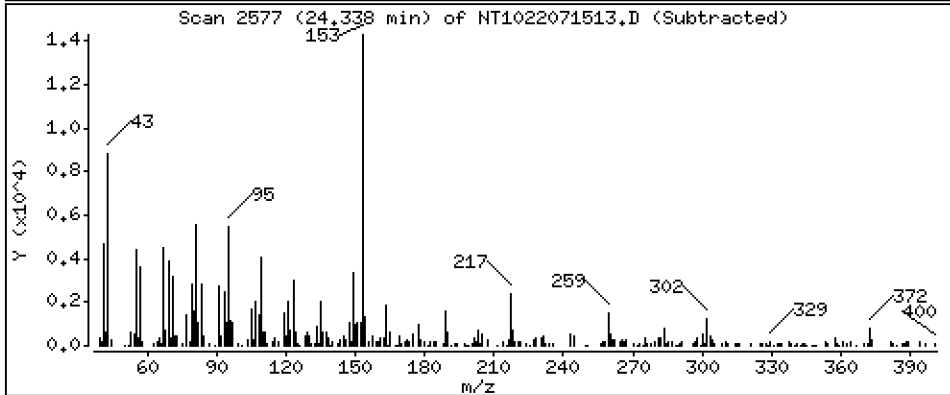
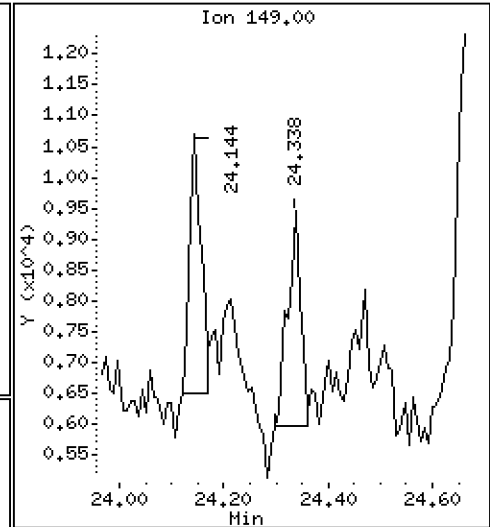
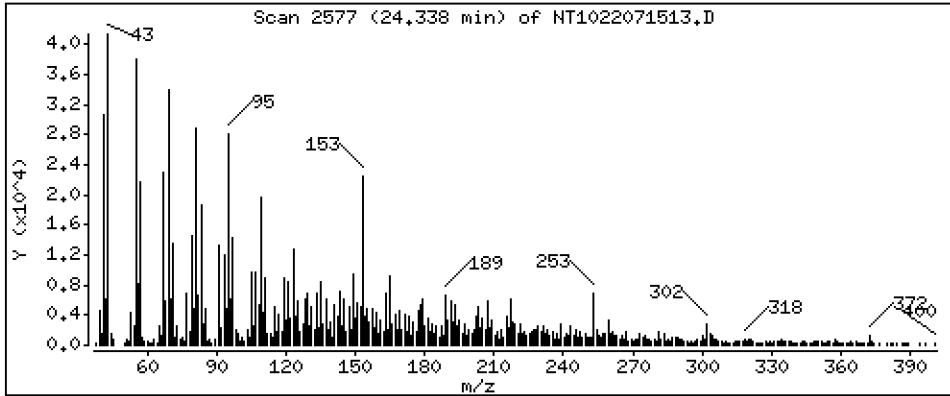
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,6864 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

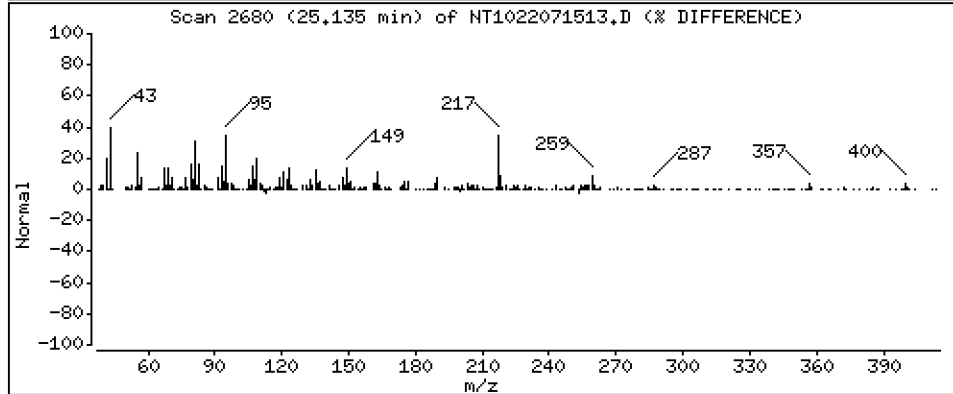
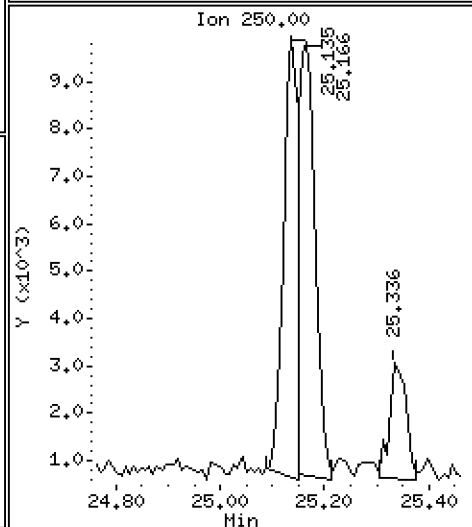
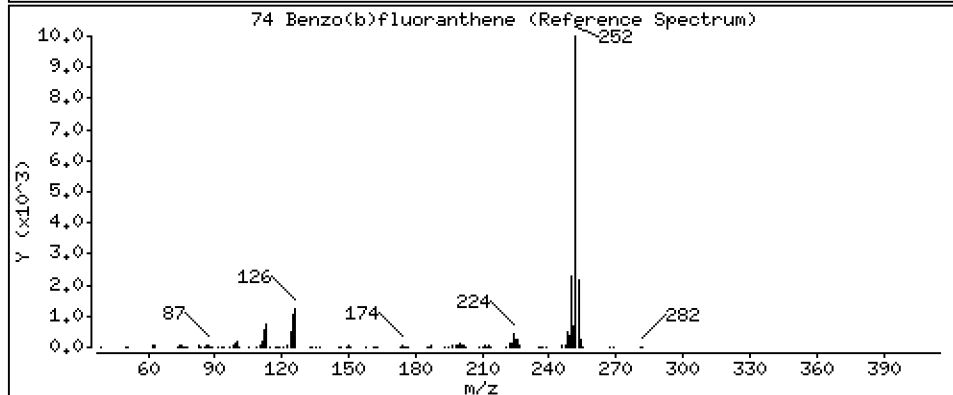
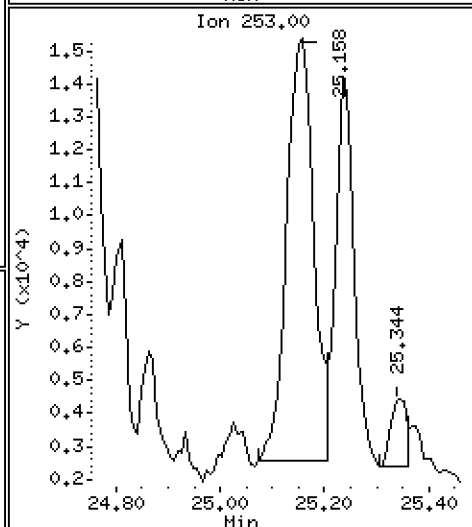
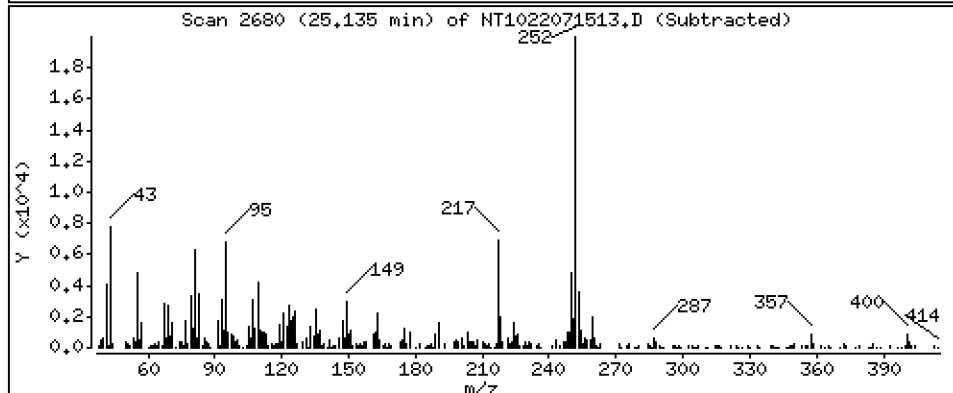
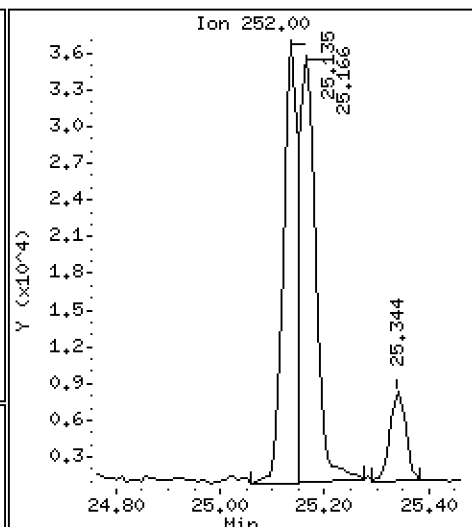
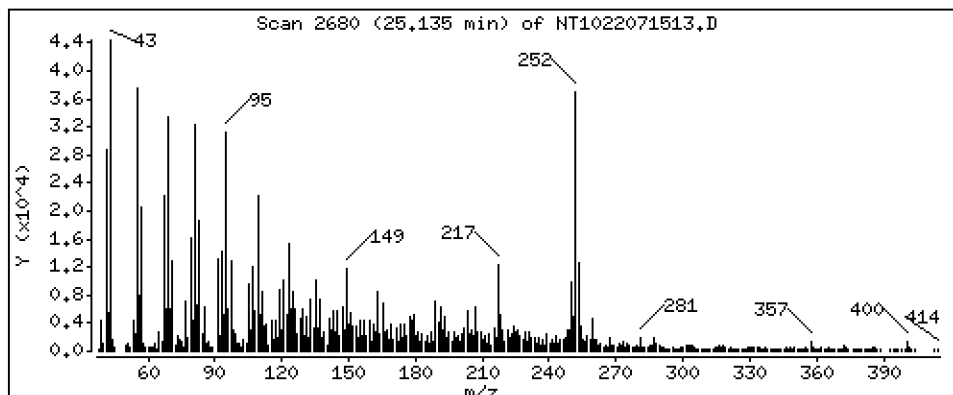
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 9,522 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

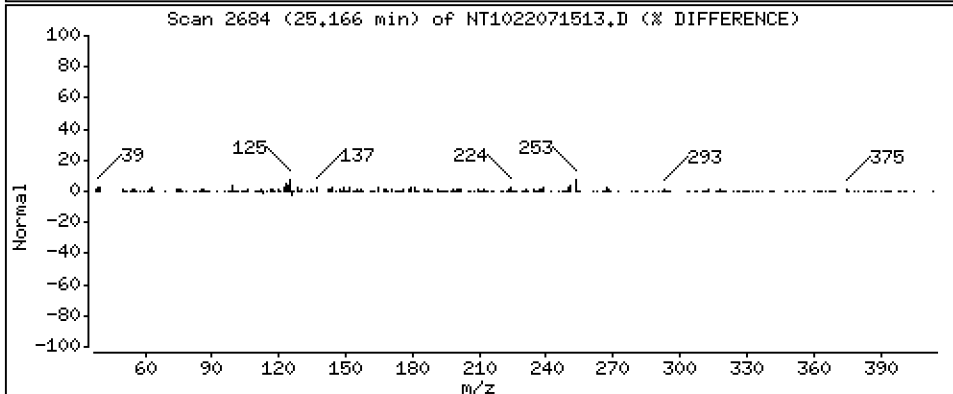
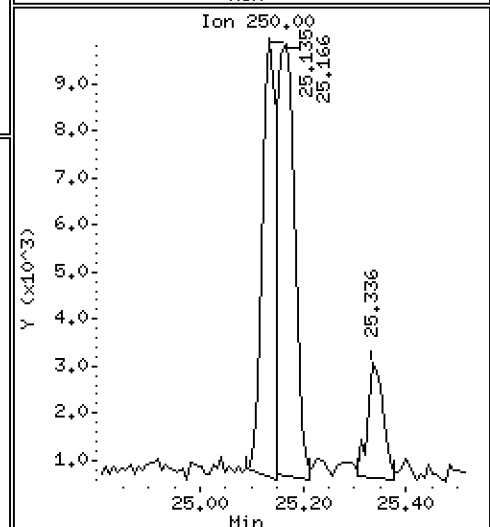
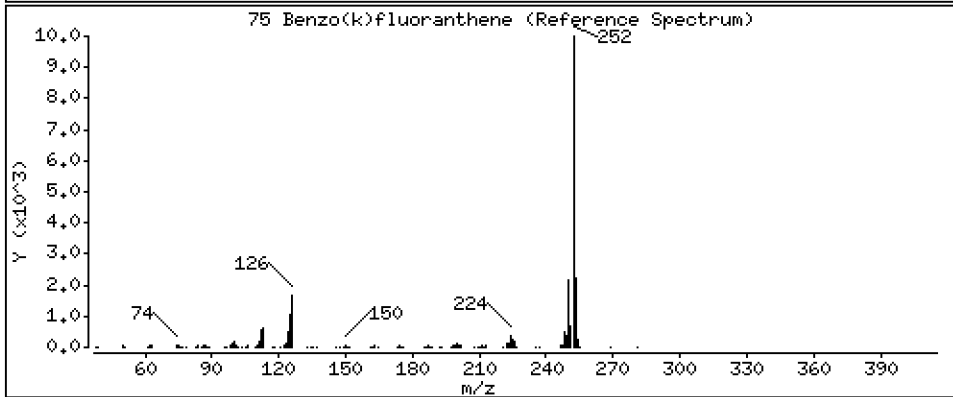
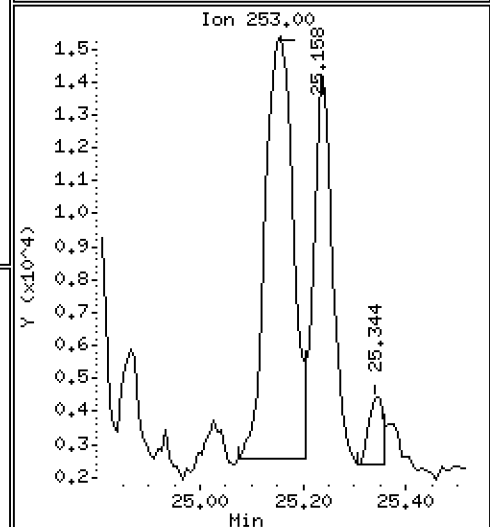
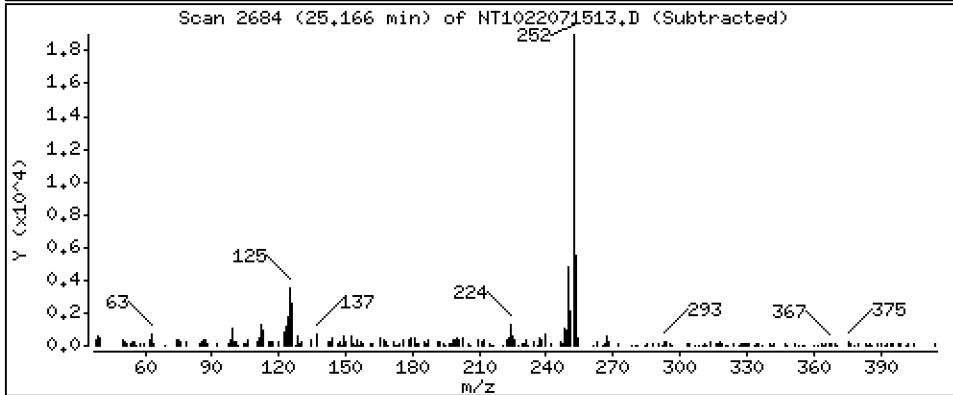
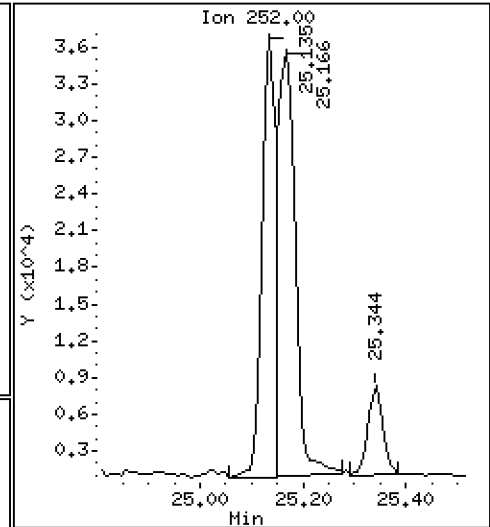
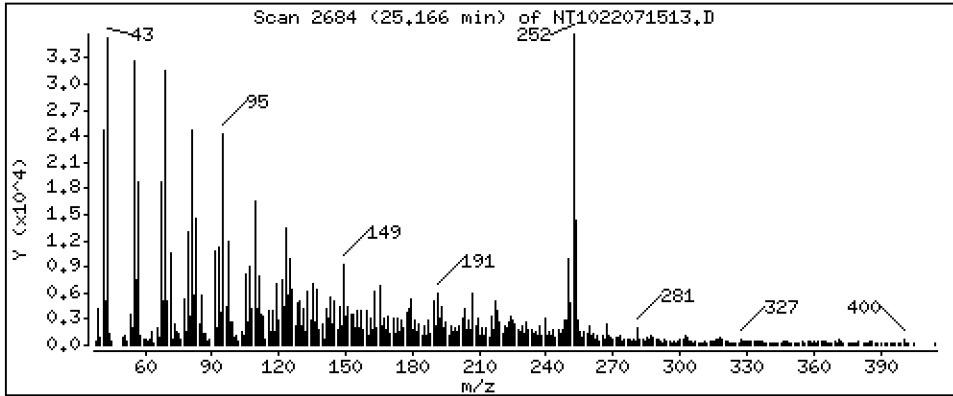
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 11,13 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

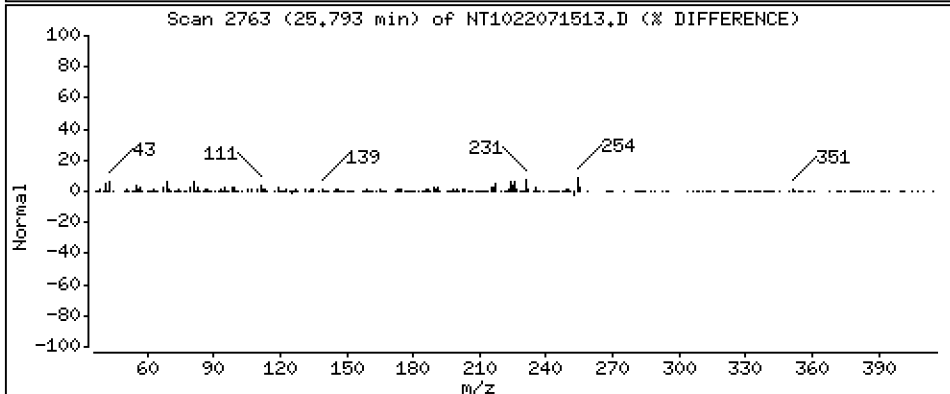
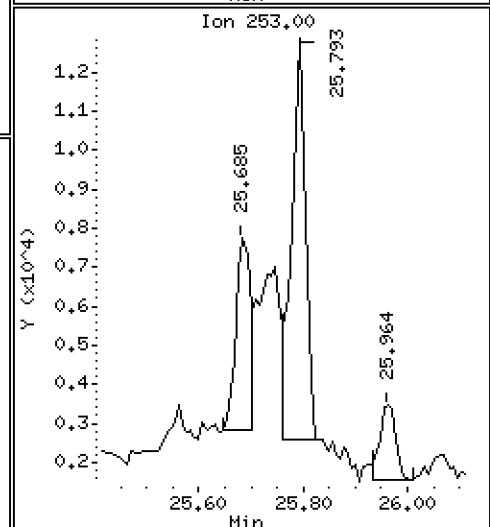
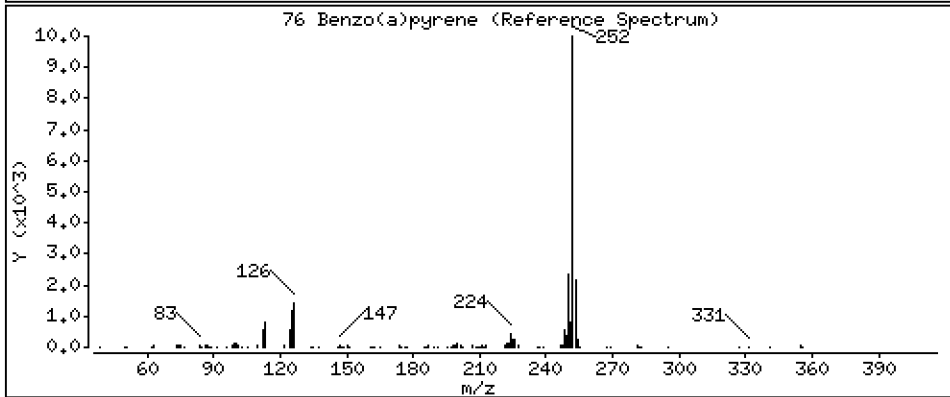
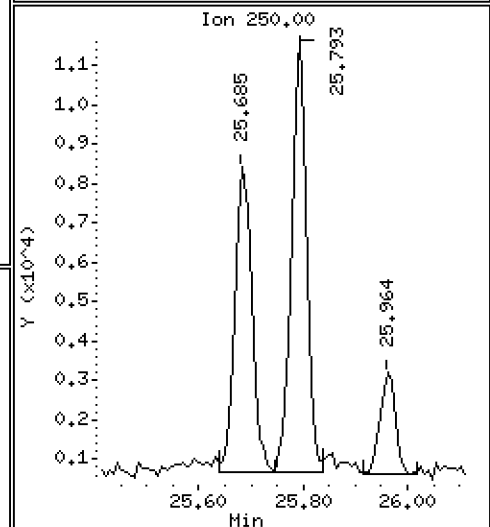
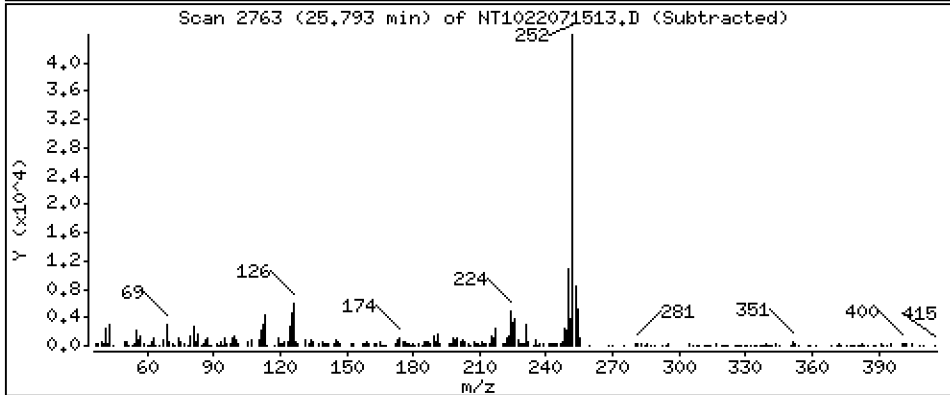
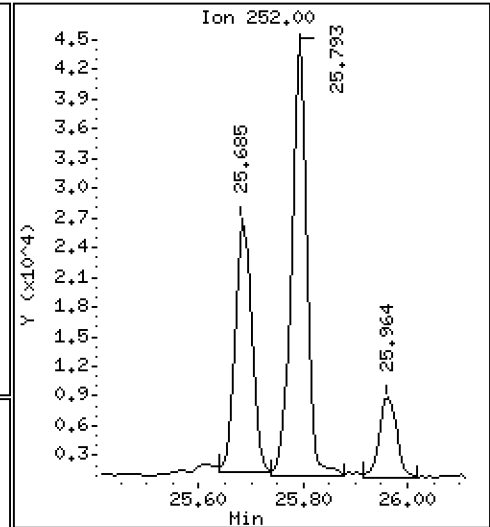
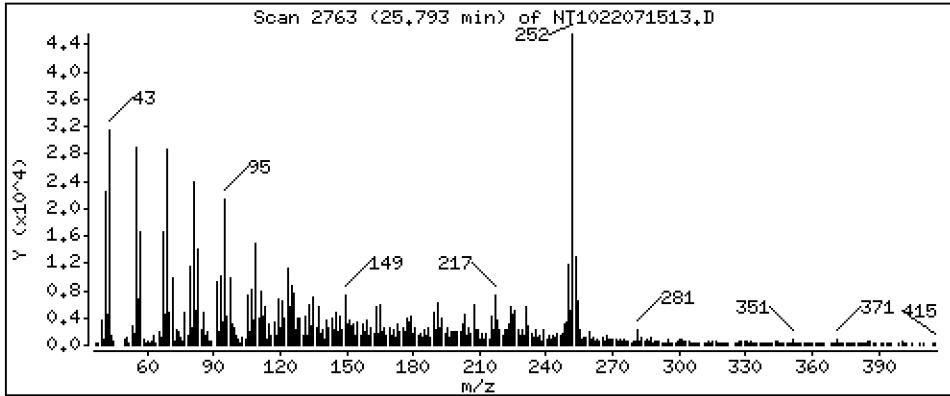
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 14,72 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 2200019-06RE1,5

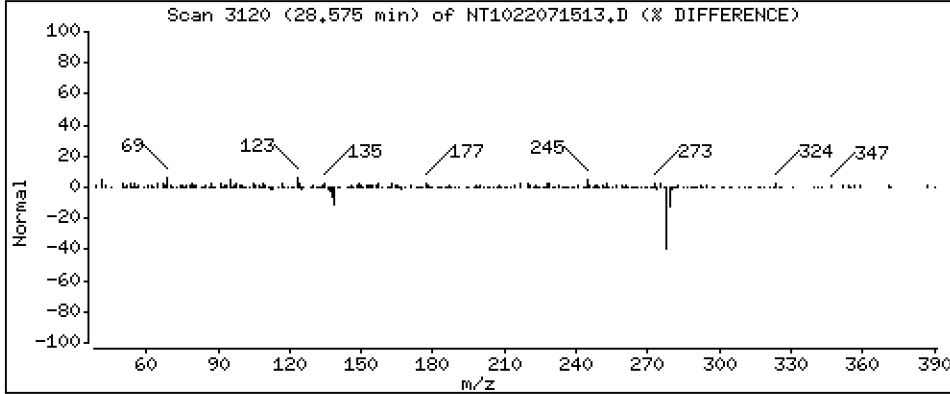
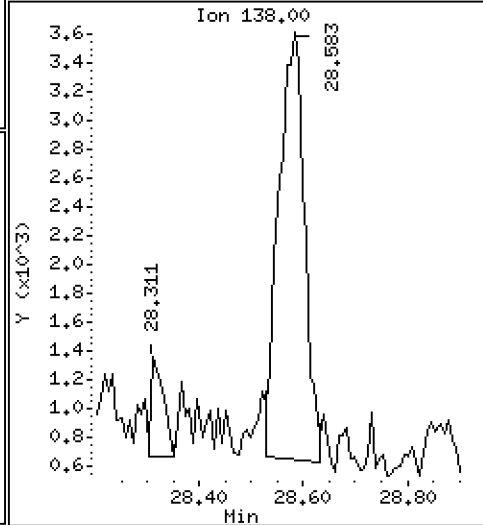
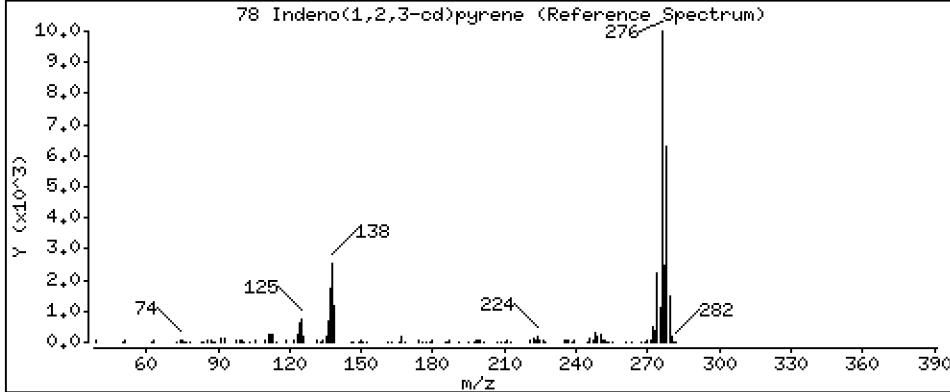
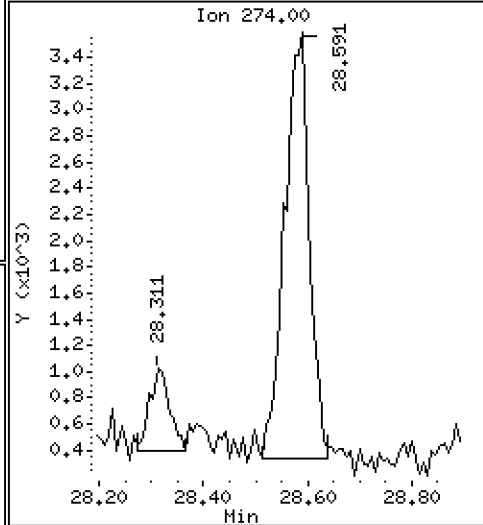
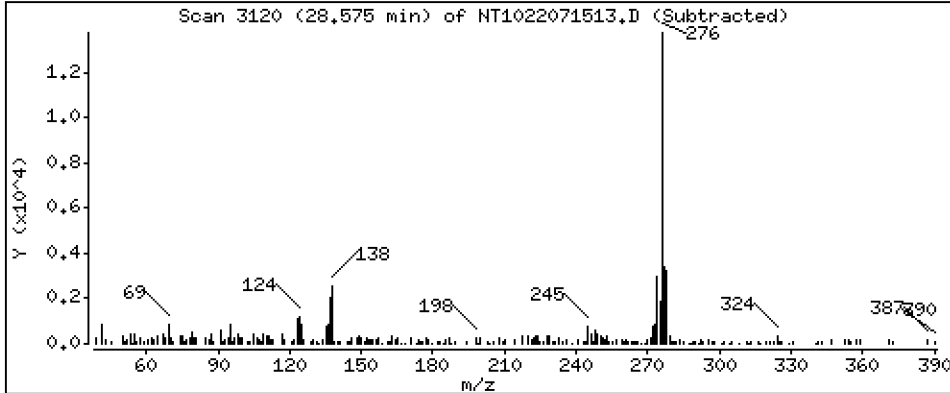
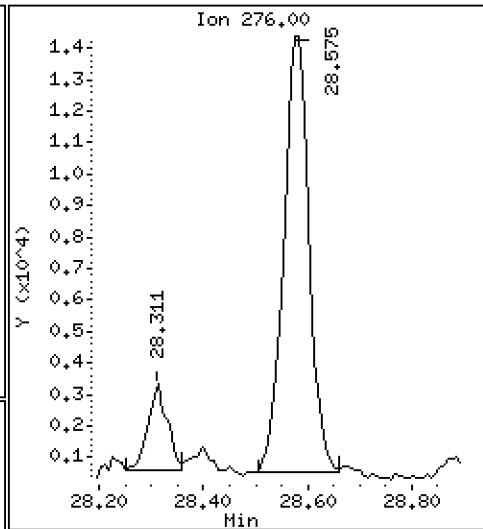
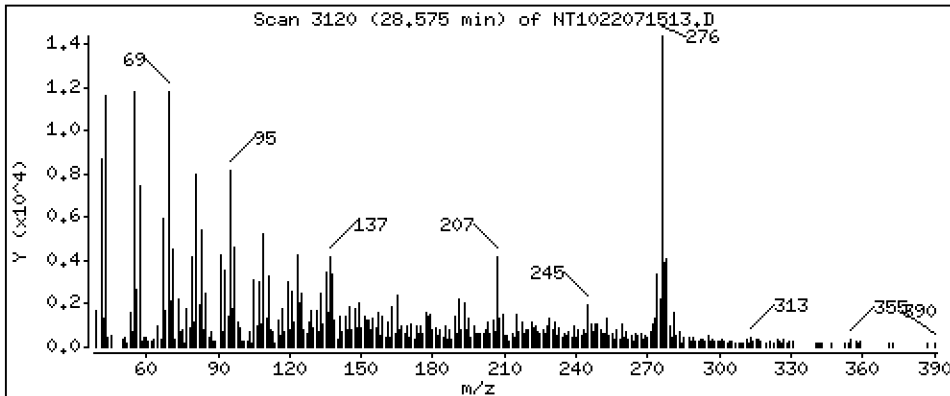
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 7,268 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 2200019-06RE1,5

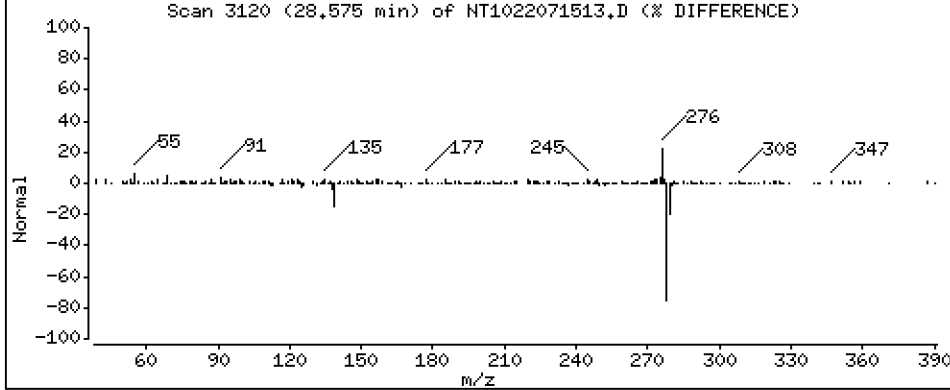
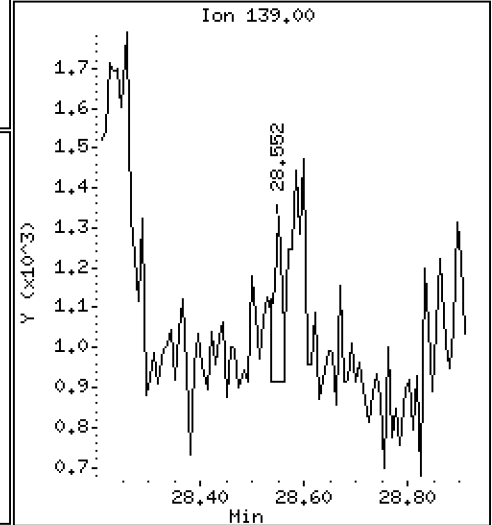
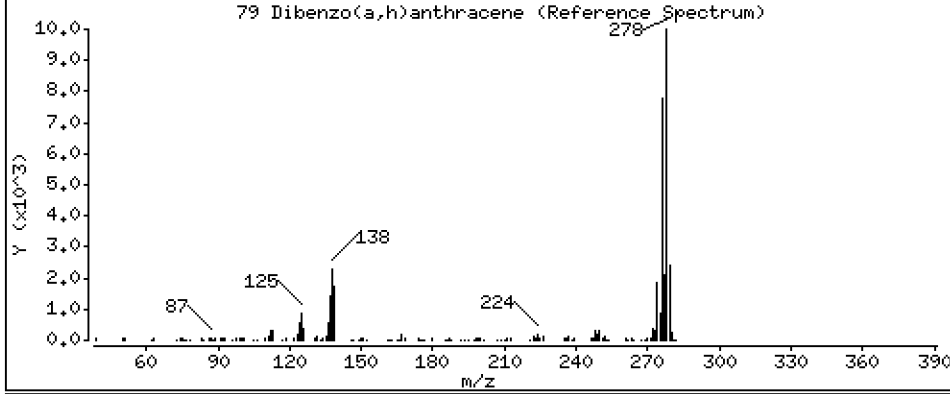
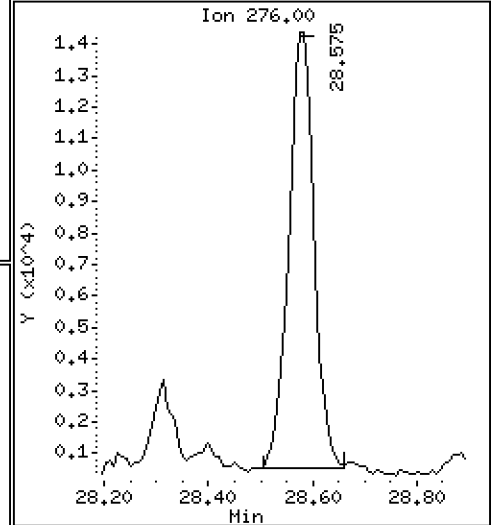
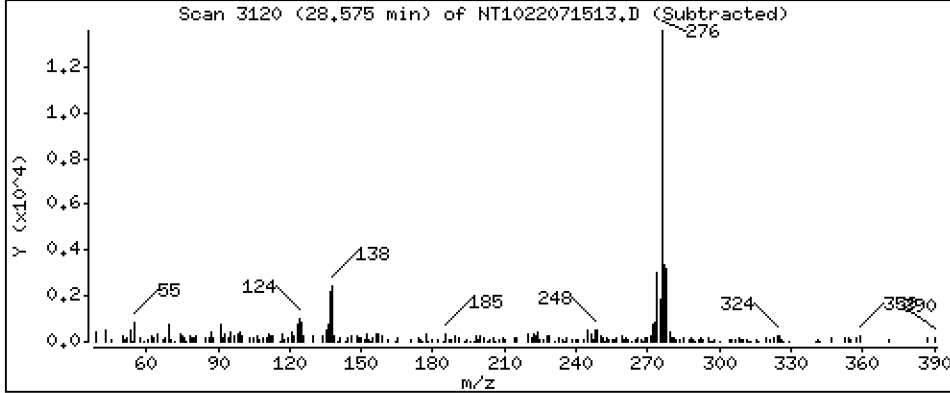
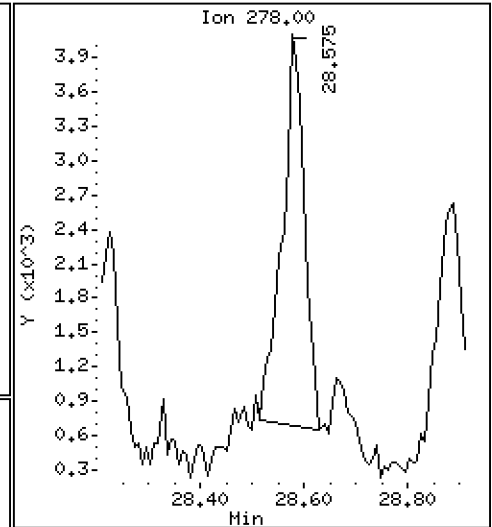
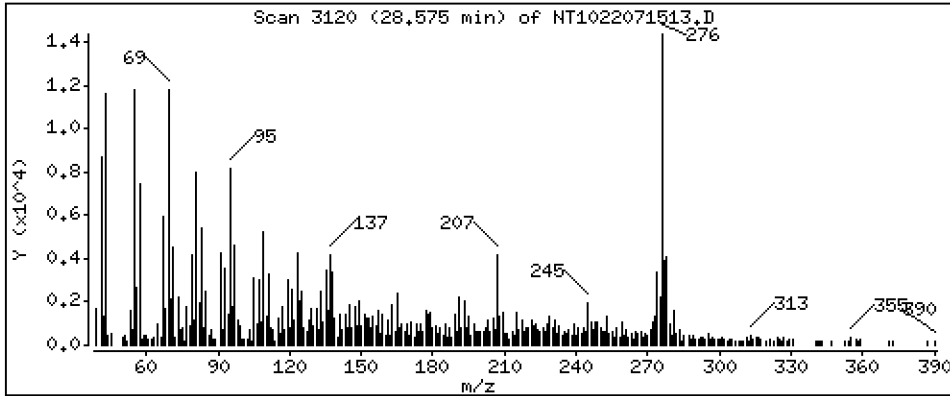
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 2,021 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

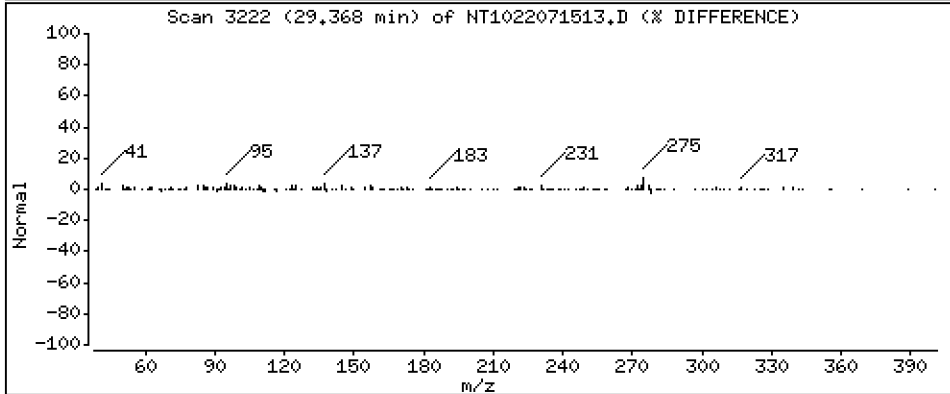
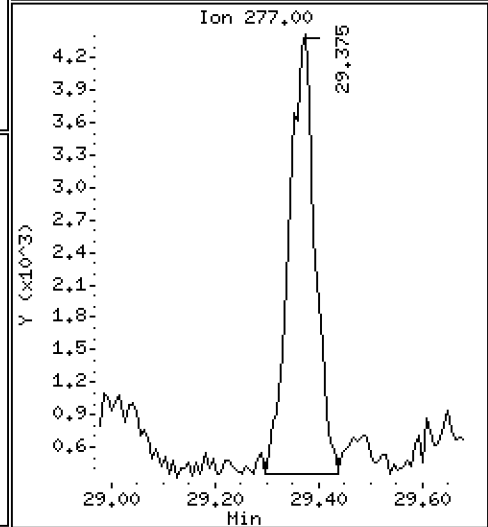
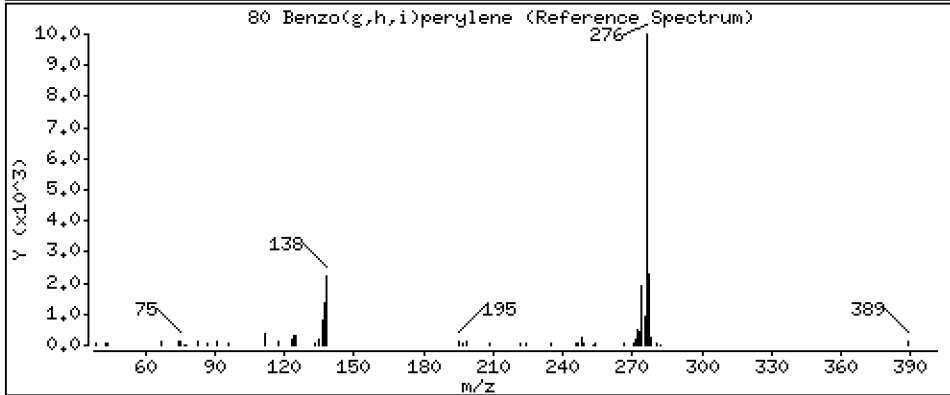
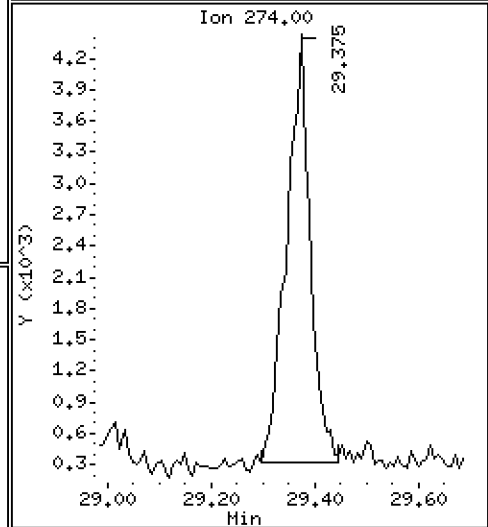
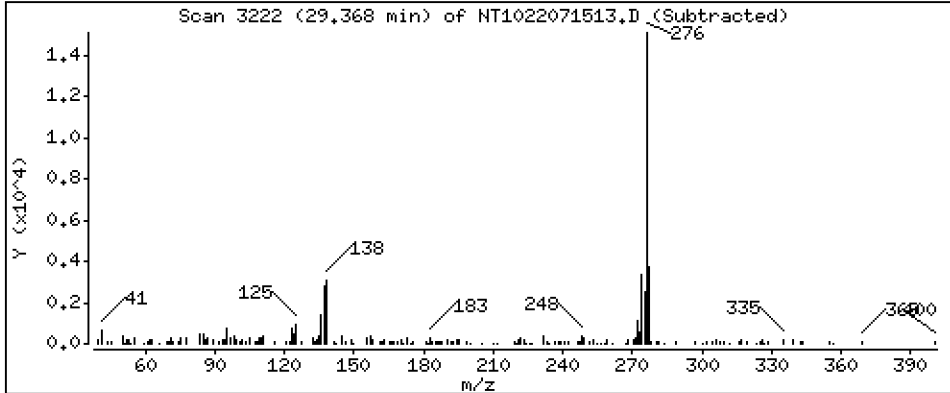
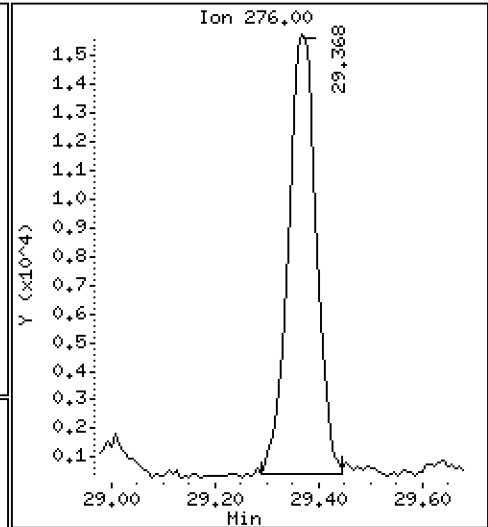
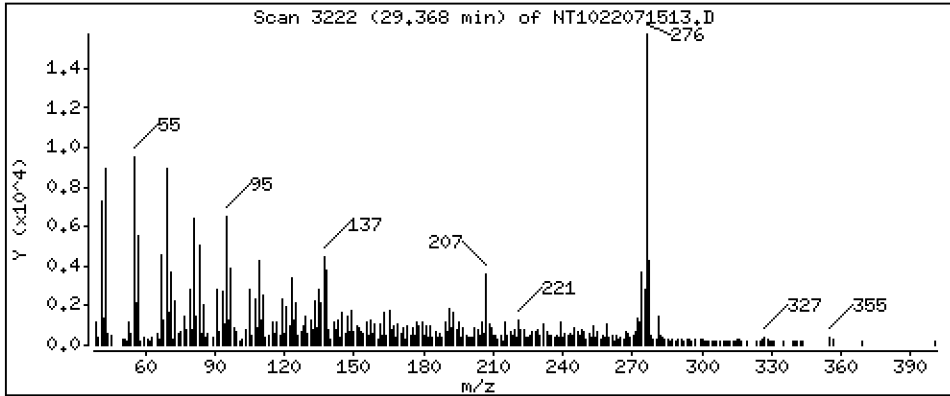
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 11,11 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

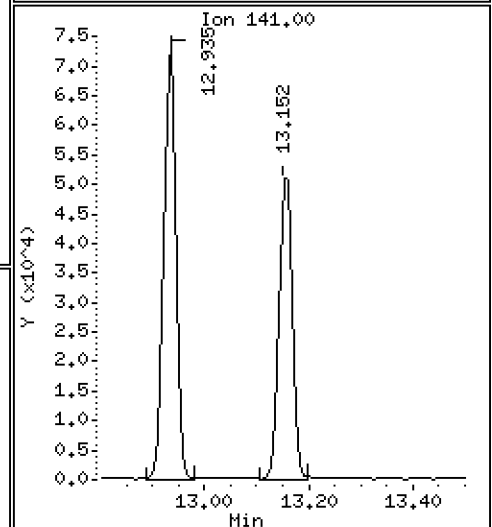
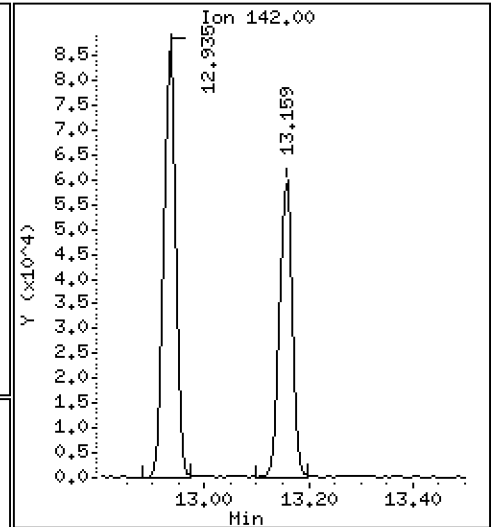
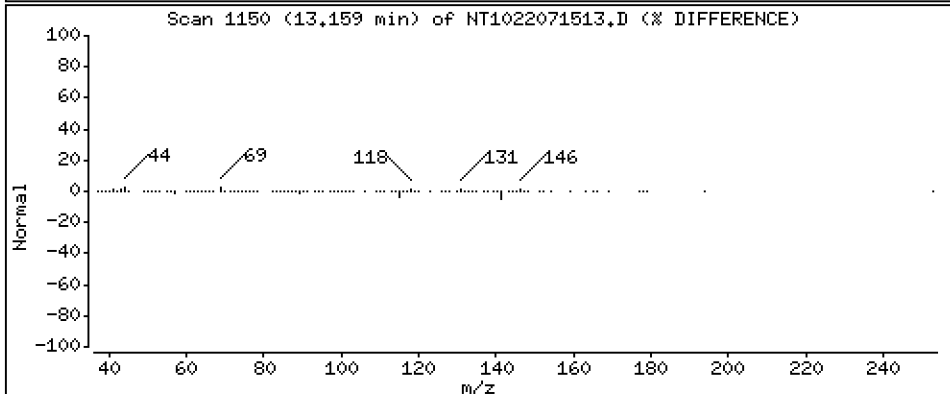
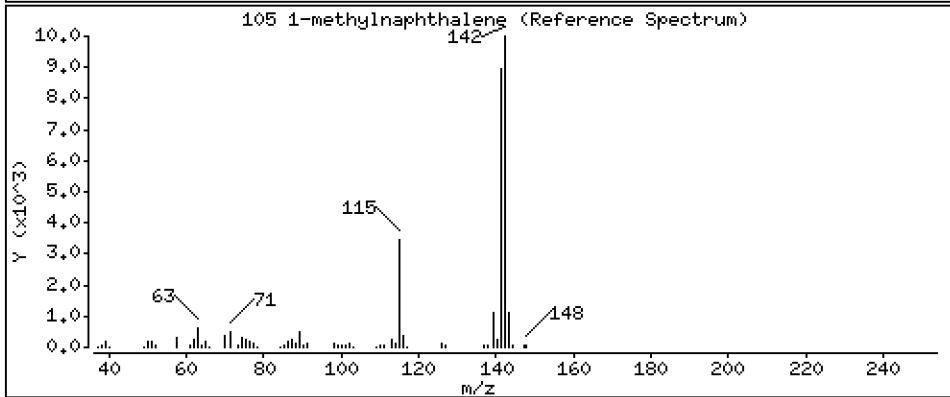
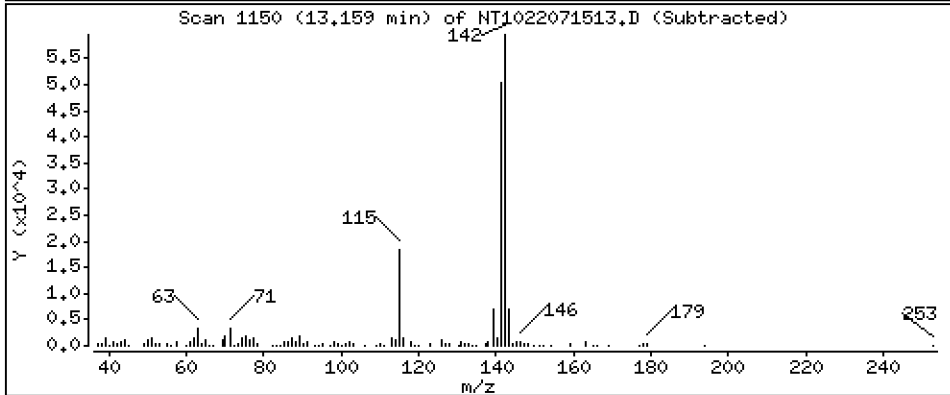
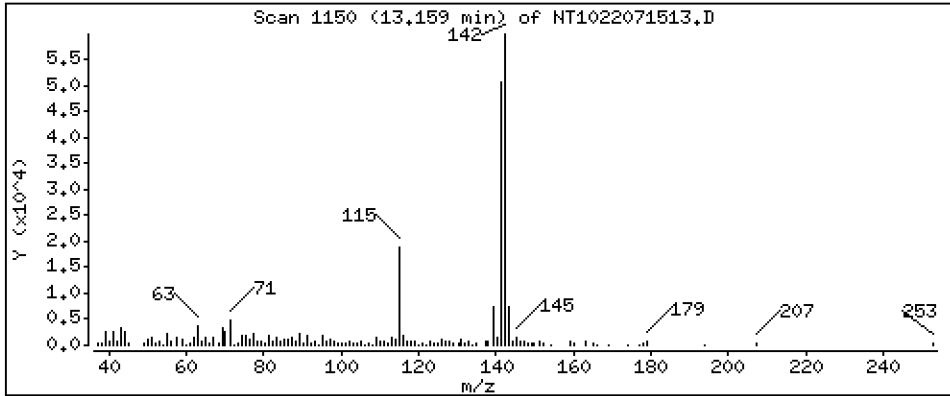
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 2,186 ug/mL



Date : 15-JUL-2022 20:00

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-06RE1,5

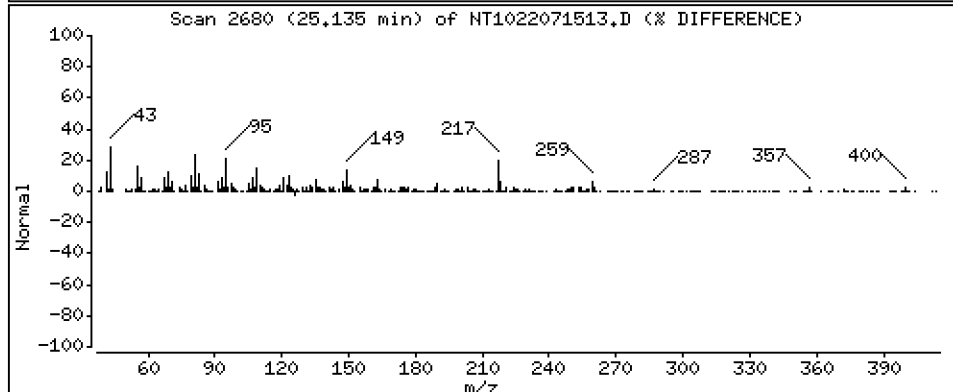
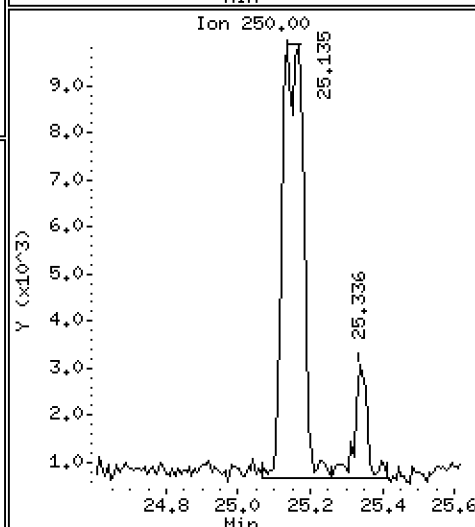
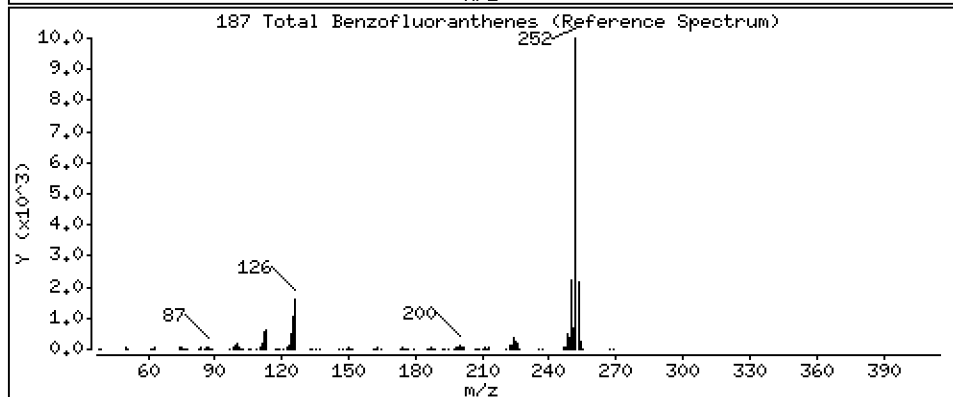
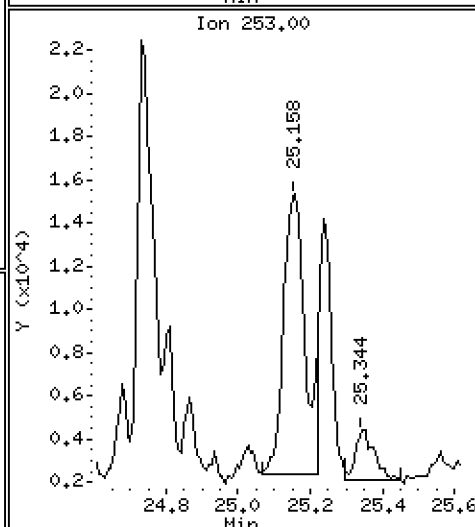
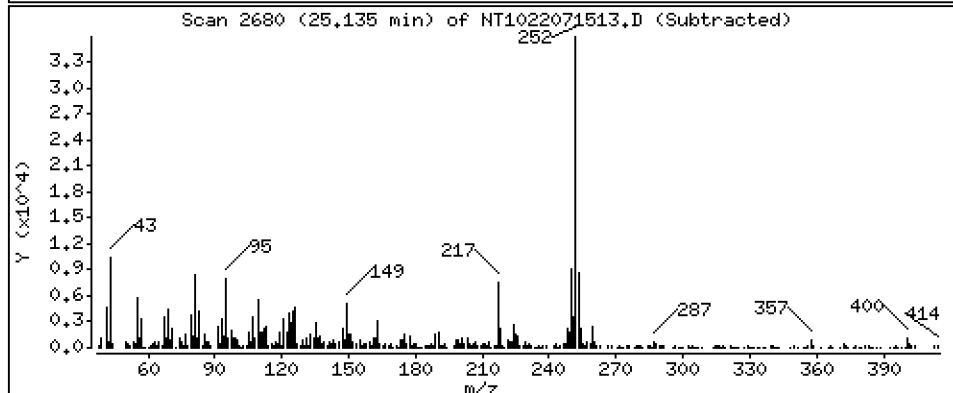
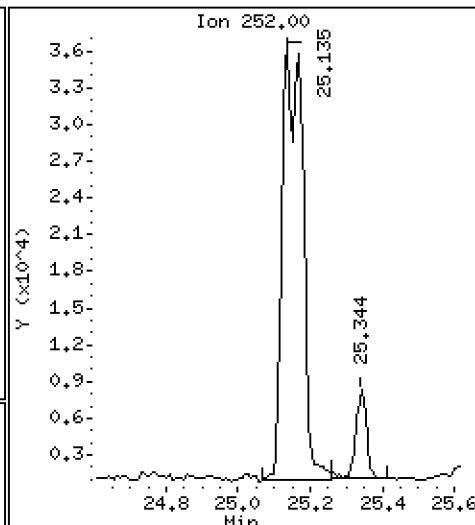
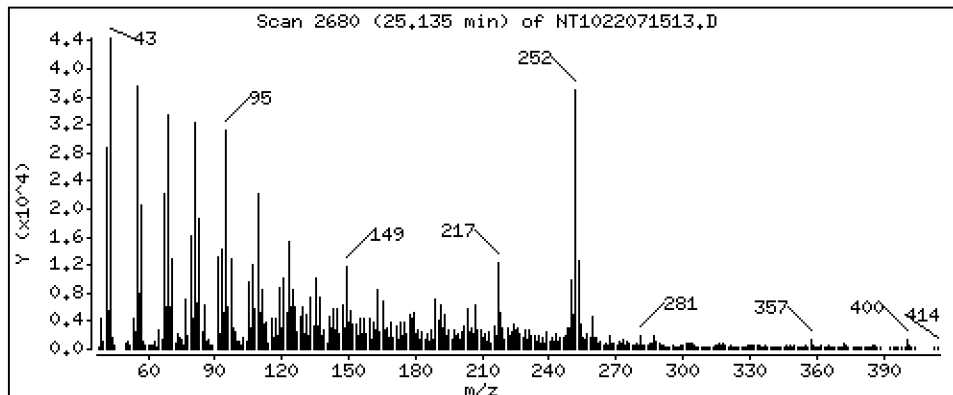
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 19,78 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071513.D
 Lab Smp Id: 22G0019-06RE1
 Inj Date : 15-JUL-2022 20:00
 Operator : VTS
 Smp Info : 22G0019-06RE1,5
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 13
 Dil Factor: 5.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.813	6.806	(0.756)	105515	1.04508	5.225
\$ 2 Phenol-d5	99		8.413	8.398	(0.934)	140037	0.93478	4.674
3 Phenol	94		8.436	8.421	(0.936)	14855	0.11380	0.5690
\$ 5 2-Chlorophenol-d4	132		8.660	8.652	(0.961)	137732	1.33882	6.694
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.008	9.001	(1.000)	276496	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.365	9.366	(1.040)	51570	0.81351	4.068
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		9.536	9.529	(1.059)	1885	0.02342	0.1171
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.808	9.793	(1.089)	8822	0.10256	0.5128
\$ 18 Nitrobenzene-d5	82		10.103	10.095	(0.879)	81251	0.86030	4.302
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.488	11.488	(1.000)	887585	4.00000	
28 Naphthalene	128		11.534	11.535	(1.004)	1332962	5.86792	29.34
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		12.935	12.927	(1.126)	134835	0.59723	2.986
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.716	13.716	(0.908)	194817	1.12156	5.608
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152		14.800	14.800	(0.980)	192062	0.85597	4.280
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.109	15.109	(1.000)	383848	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.179	15.179	(1.005)	65055	0.58276	2.914
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.511	15.511	(1.027)	108033	0.60894	3.045
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		16.222	16.223	(1.074)	125307	0.59111	2.956
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.762	16.762	(1.109)	18256	1.05387	5.269
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.169	18.161	(1.000)	445008	4.00000	
60 Phenanthrene	178		18.215	18.207	(1.003)	1223852	10.4681	52.34
61 Anthracene	178		18.308	18.300	(1.008)	213505	1.71368	8.568
62 Carbazole	167		18.648	18.641	(1.026)	34821	0.30295	1.515
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.621	20.606	(0.887)	806060	10.5140	52.57
65 Pyrene	202		21.047	21.031	(0.905)	857642	12.3762	61.88
\$ 66 Terphenyl-d14	244		21.341	21.326	(0.918)	38905	1.11688	5.584
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.230	23.215	(0.999)	107481	2.54108	12.71
* 69 Chrysene-d12	240		23.253	23.246	(1.000)	99818	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.300	23.292	(1.002)	109041	3.74604	18.73
72 bis(2-Ethylhexyl)phthalate	149		23.308	23.308	(0.959)	4344	0.19658	0.9829 (M)
* 134 Di-n-octylphthalate-d4	153		24.314	24.306	(1.000)	199925	4.00000	
73 Di-n-octylphthalate	149		24.337	24.314	(1.001)	6238	0.13728	0.6864
74 Benzo(b)fluoranthene	252		25.135	25.112	(0.970)	72043	1.90444	9.522
75 Benzo(k)fluoranthene	252		25.166	25.158	(0.971)	80993	2.22657	11.13
76 Benzo(a)pyrene	252		25.793	25.762	(0.996)	91129	2.94336	14.72
* 77 Perylene-d12	264		25.909	25.878	(1.000)	83529	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.575	28.544	(1.103)	48052	1.45360	7.268
79 Dibenzo(a,h)anthracene	278		28.575	28.560	(1.103)	10230	0.40424	2.021 (M)
80 Benzo(g,h,i)perylene	276		29.367	29.329	(1.133)	58712	2.22184	11.11
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.159	13.151	(1.145)	96955	0.43712	2.186
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.135	25.112	(0.970)	139525	3.95576	19.78	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071513.D Calibration Time: 12:41
 Lab Smp Id: 22G0019-06RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	276496	37.19
27 Naphthalene-d8	649654	324827	1299308	887585	36.62
42 Acenaphthene-d10	370460	185230	740920	383848	3.61
59 Phenanthrene-d10	647298	323649	1294596	445008	-31.25
69 Chrysene-d12	221116	110558	442232	99818	-54.86
134 Di-n-octylphthala	319144	159572	638288	199925	-37.36
77 Perylene-d12	105234	52617	210468	83529	-20.63

<-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.01	0.08
27 Naphthalene-d8	11.49	10.99	11.99	11.49	-0.00
42 Acenaphthene-d10	15.11	14.61	15.61	15.11	-0.00
59 Phenanthrene-d10	18.16	17.66	18.66	18.17	0.04
69 Chrysene-d12	23.25	22.75	23.75	23.25	0.03
134 Di-n-octylphthala	24.31	23.81	24.81	24.31	0.03
77 Perylene-d12	25.88	25.38	26.38	25.91	0.12

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

REVIEW SUMMARY FOR FILE - NT1022071513.D

Lab ID: 22G0019-06RE1
nt10.i, ABN.m, 15-JUL-2022 20:00

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

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND

NONE				

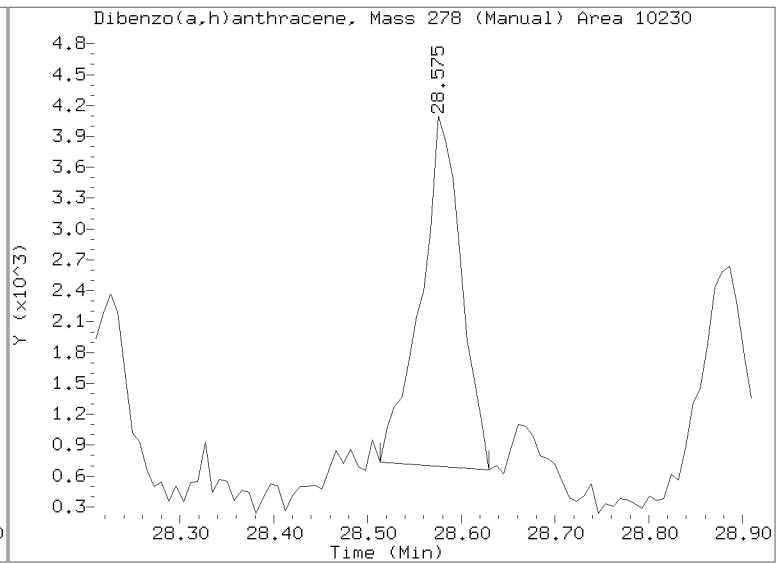
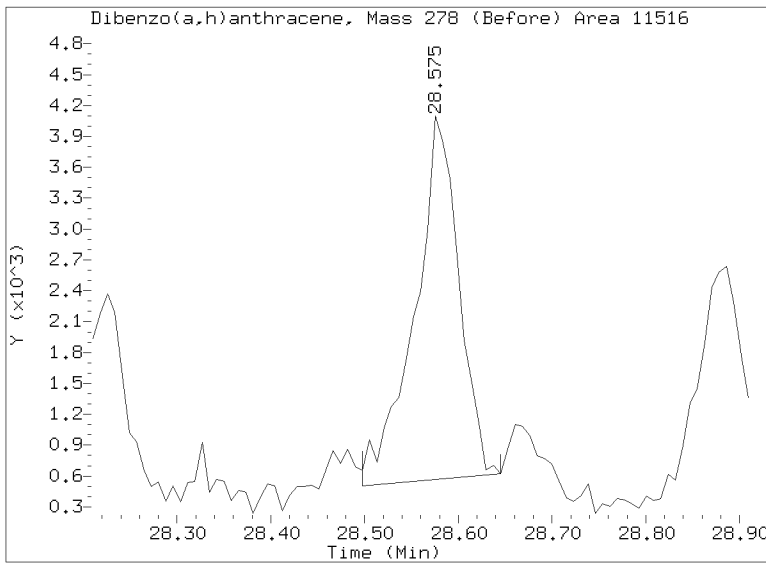
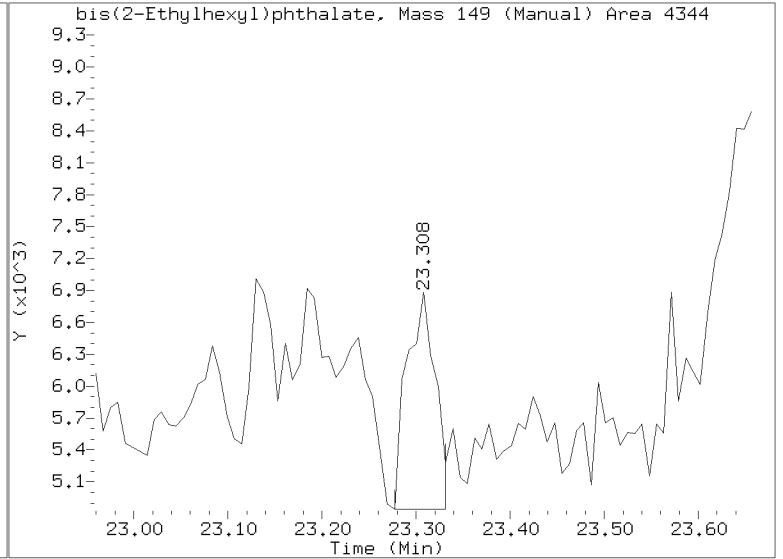
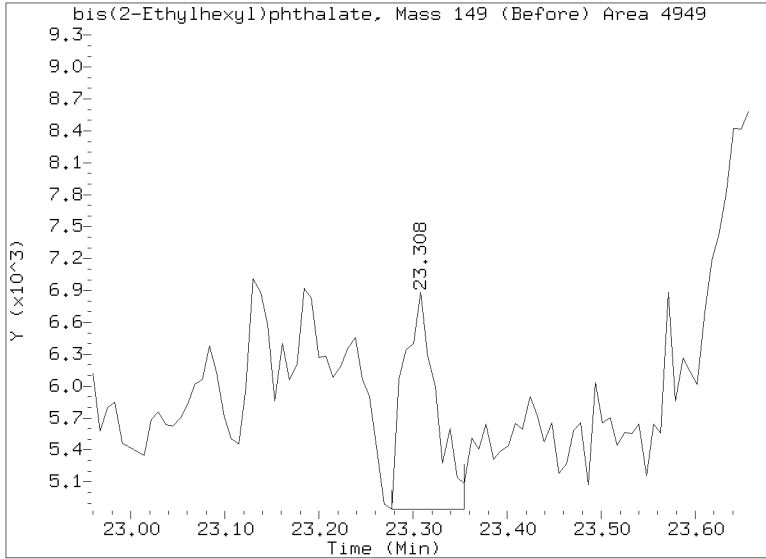
RRT check based on Ccal File: NT1022071502.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071513.D
Injection Date: 15-JUL-2022 20:00
Lab ID:22G0019-06RE1 Client ID:
Report Date: 07/16/2022 09:03





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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-07 A

SDG: 22G0019

Sampled: 06/28/22 12:10

Prepared: 07/07/22 10:01

File ID: NT1022071413.D

% Solids: 47.97

Preparation: EPA 3546 (Microwave)

Analyzed: 07/14/22 21:31

Batch: BKG0069

Sequence: SKG0139

Initial/Final: 20.87 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	3	1250	D	12.7	59.9
91-57-6	2-Methylnaphthalene	3	527	D	13.5	59.9
83-32-9	Acenaphthene	3	2140	D	15.6	59.9
87-86-5	Pentachlorophenol	3	93.6	U	93.6	300
85-01-8	Phenanthrene	3	27700	D, E	26.1	59.9
206-44-0	Fluoranthene	3	10100	Q, D, E	18.2	59.9
56-55-3	Benzo(a)anthracene	3	6870	D, E	17.9	59.9
218-01-9	Chrysene	3	7020	D, E	18.2	59.9
205-99-2	Benzo(b)fluoranthene	3	5250	D	21.0	59.9
207-08-9	Benzo(k)fluoranthene	3	6820	D, E	15.0	59.9
50-32-8	Benzo(a)pyrene	3	9360	D, E	12.7	59.9
193-39-5	Indeno(1,2,3-cd)pyrene	3	1290	D	43.9	59.9
53-70-3	Dibenzo(a,h)anthracene	3	497	D	51.6	59.9
90-12-0	1-Methylnaphthalene	3	785	D	15.8	59.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.15	600	80.1	27 - 120	
Phenol-d5	749.15	499	66.6	29 - 120	
2-Chlorophenol-d4	749.15	701	93.6	31 - 120	
1,2-Dichlorobenzene-d4	499.43	477	95.5	32 - 120	
Nitrobenzene-d5	499.43	532	107	30 - 120	
2-Fluorobiphenyl	499.43	570	114	35 - 120	
2,4,6-Tribromophenol	749.15	396	52.8	24 - 134	
p-Terphenyl-d14	499.43	315	63.0	37 - 120	Q

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Date: 14-JUL-2022 21:31

Client ID:

Sample Info: 2200019-07,3

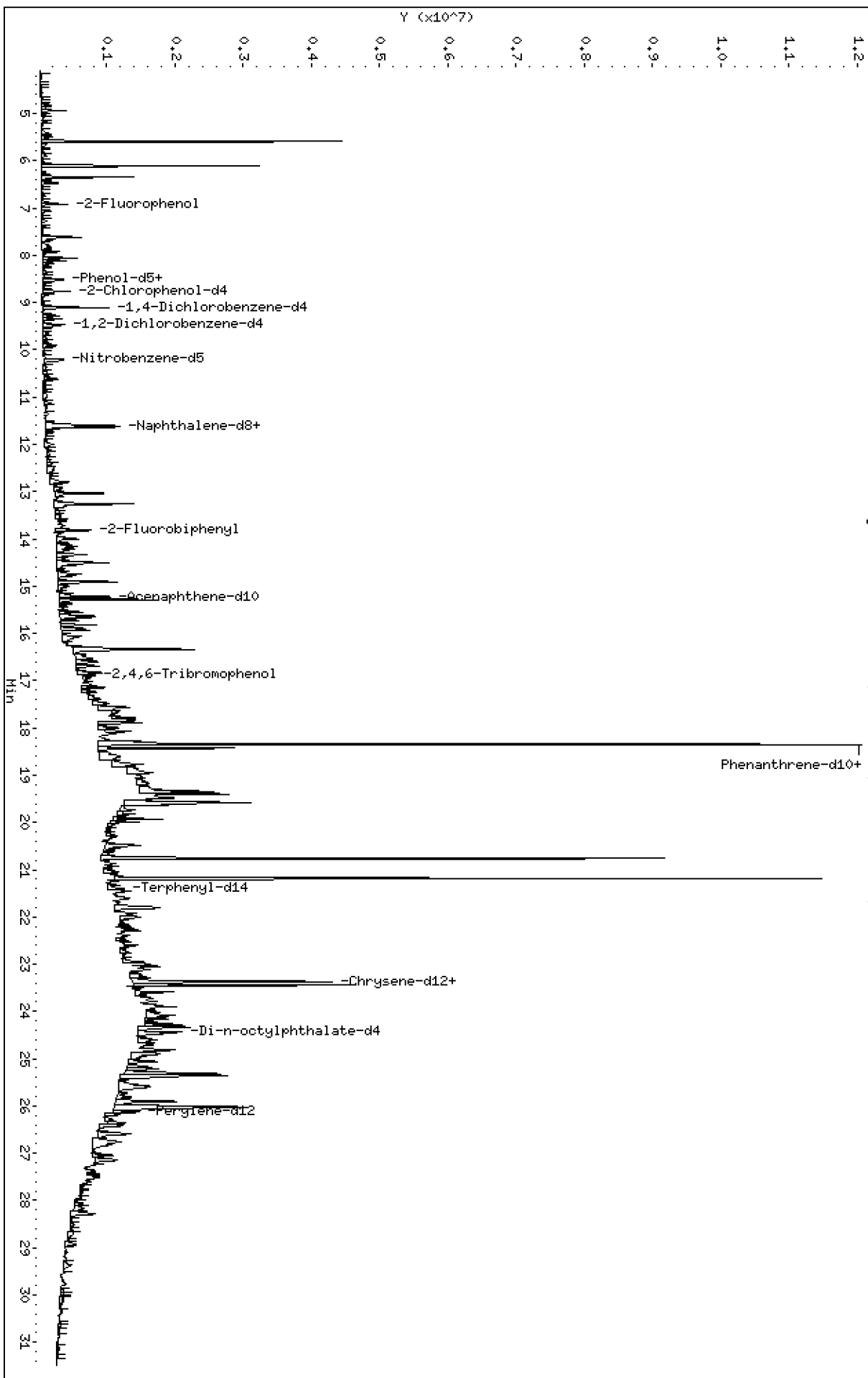
Instrument: nt10,1

Operator: VTS

Column diameter: 0,25

Column phase: ZB-5msi

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Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

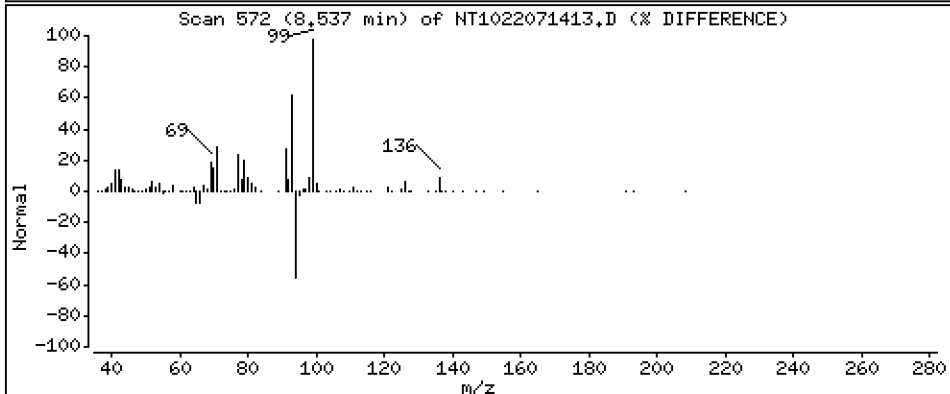
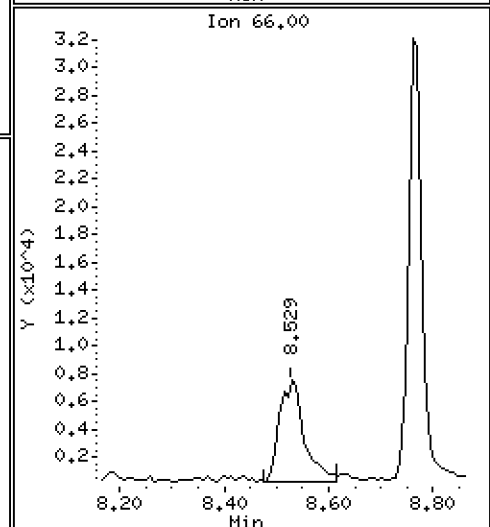
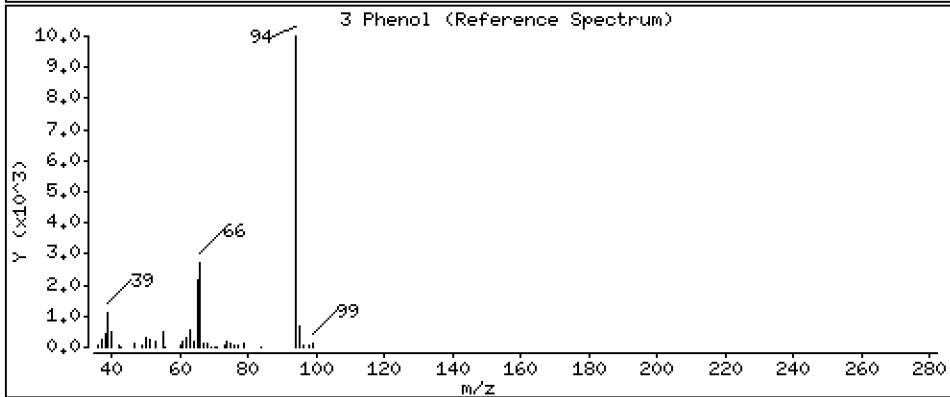
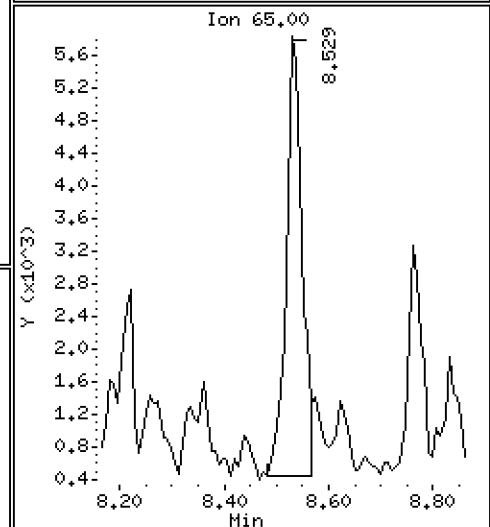
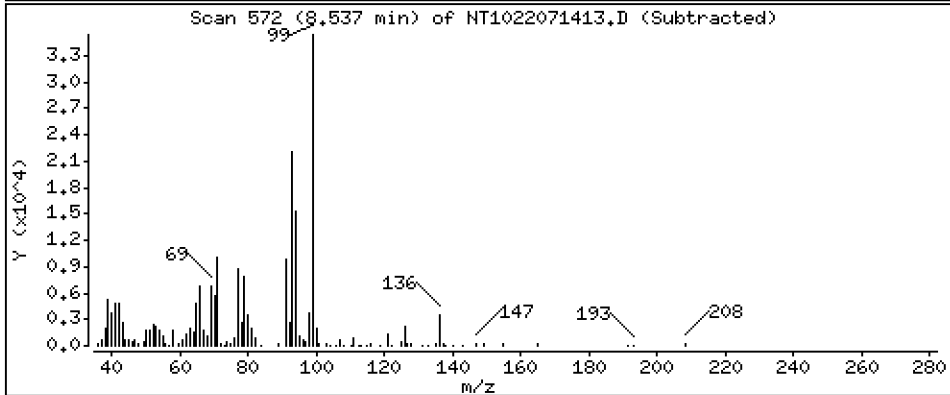
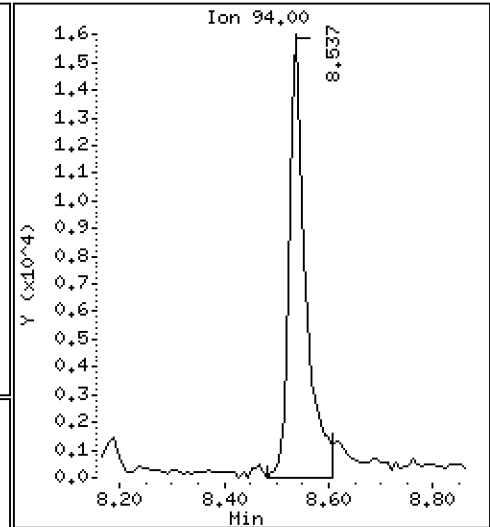
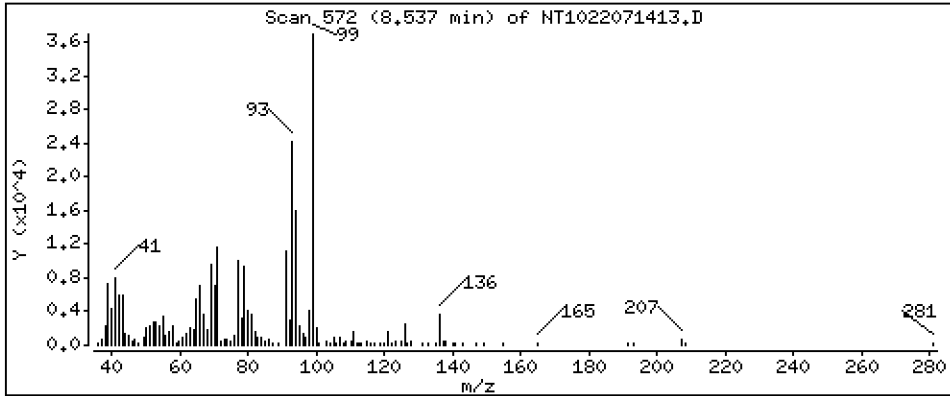
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,8656 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

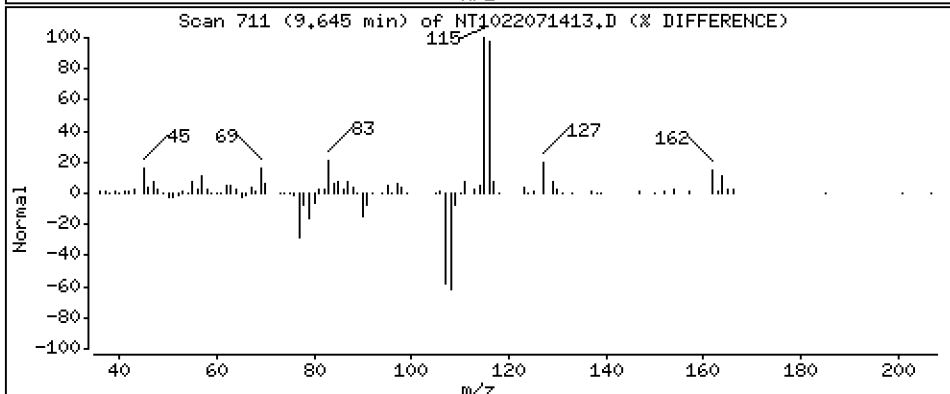
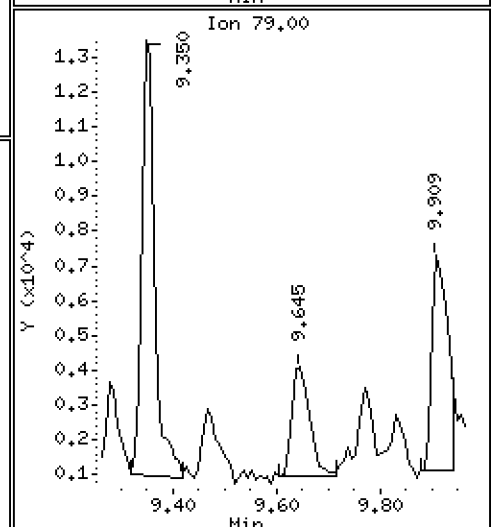
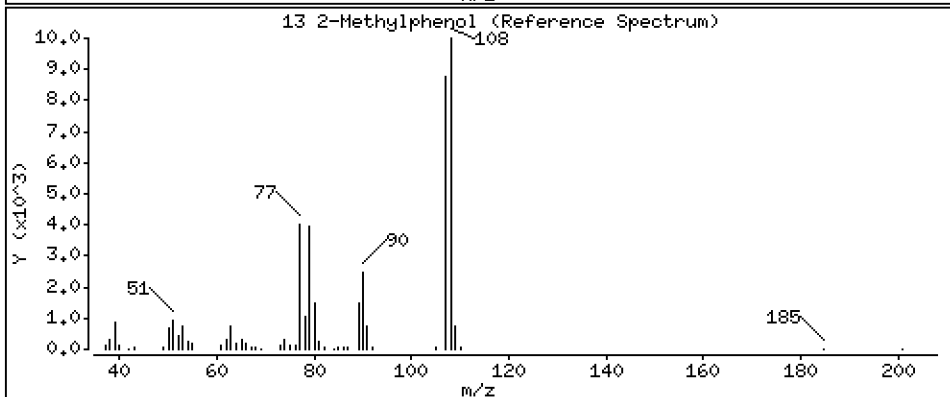
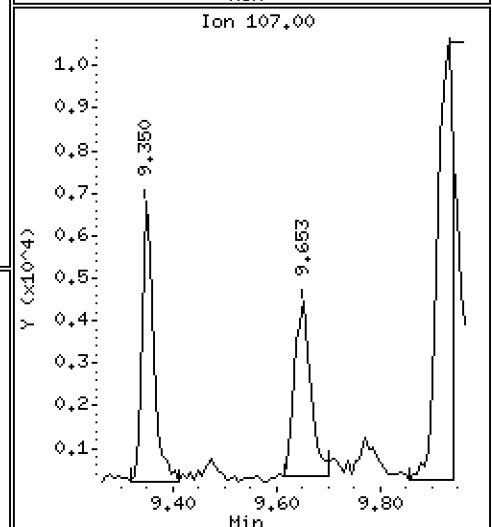
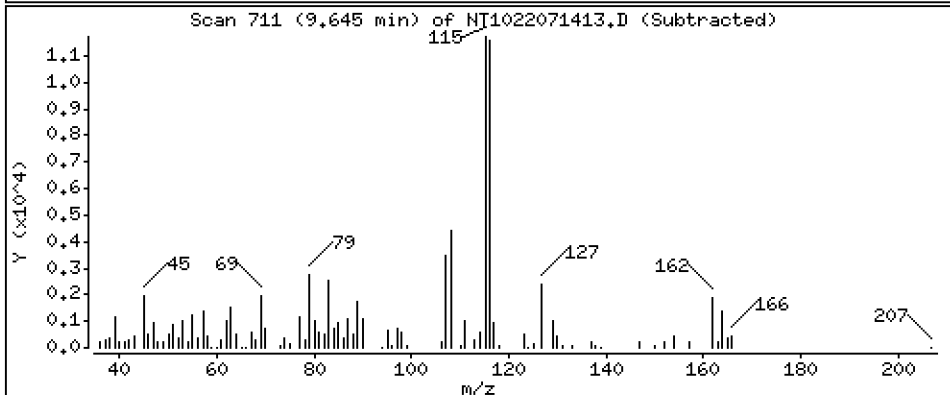
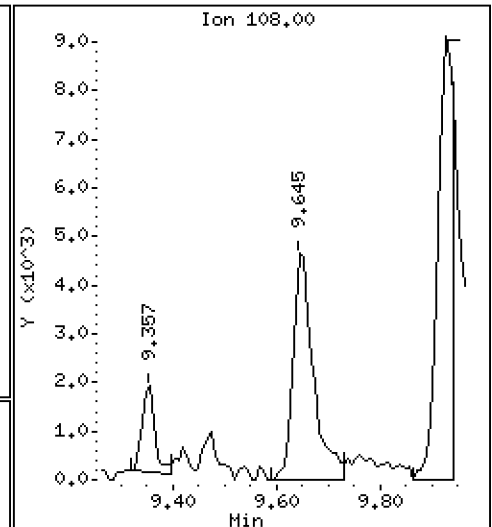
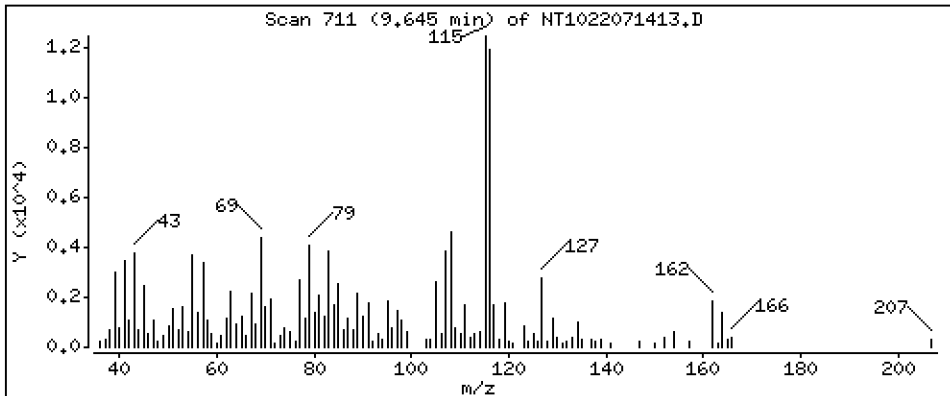
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.5111 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

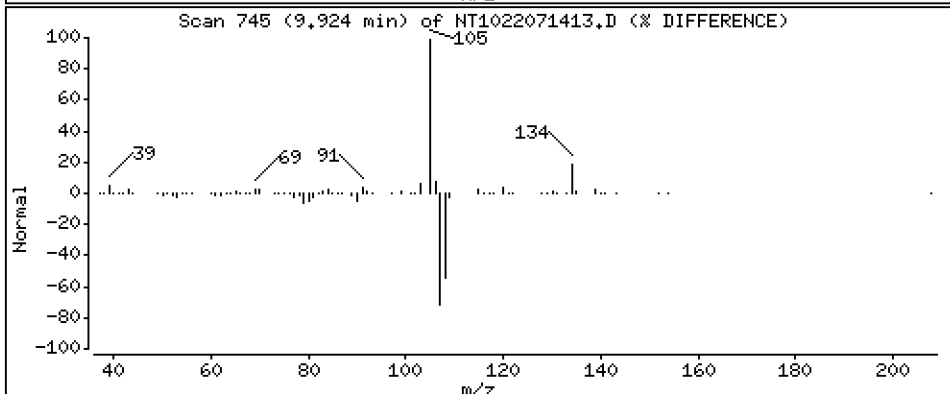
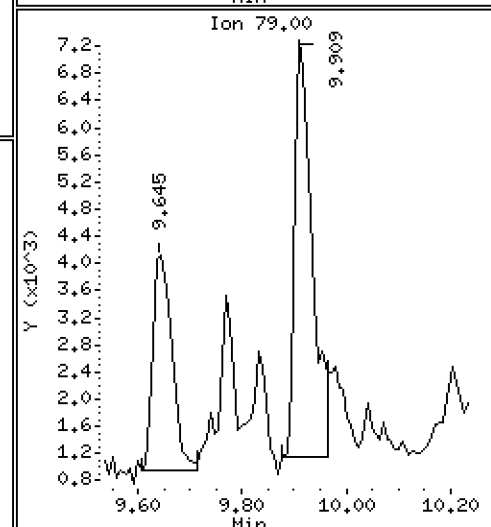
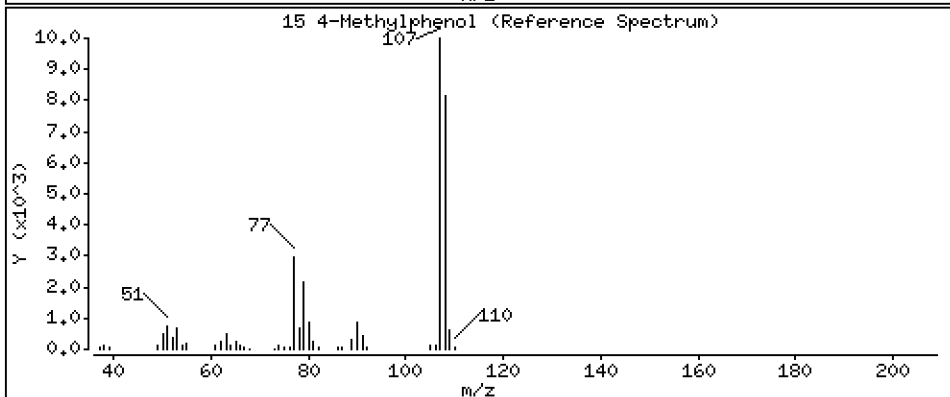
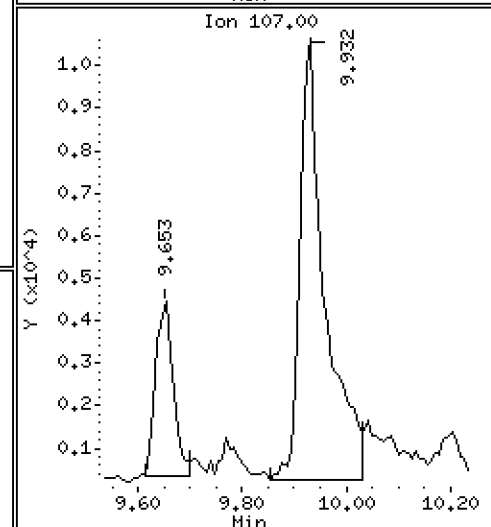
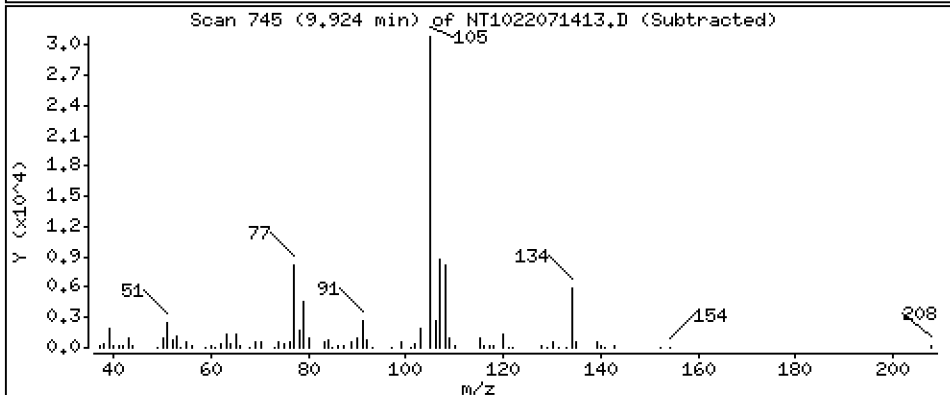
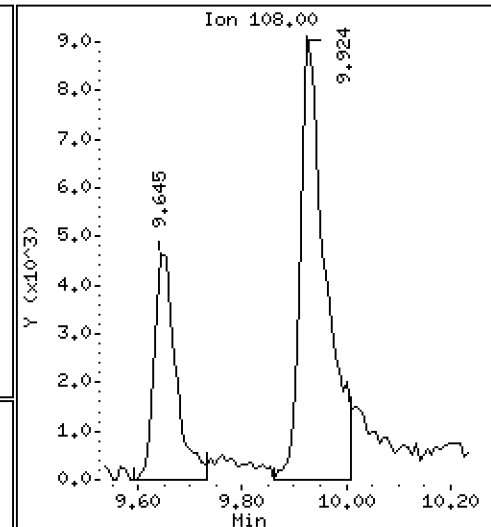
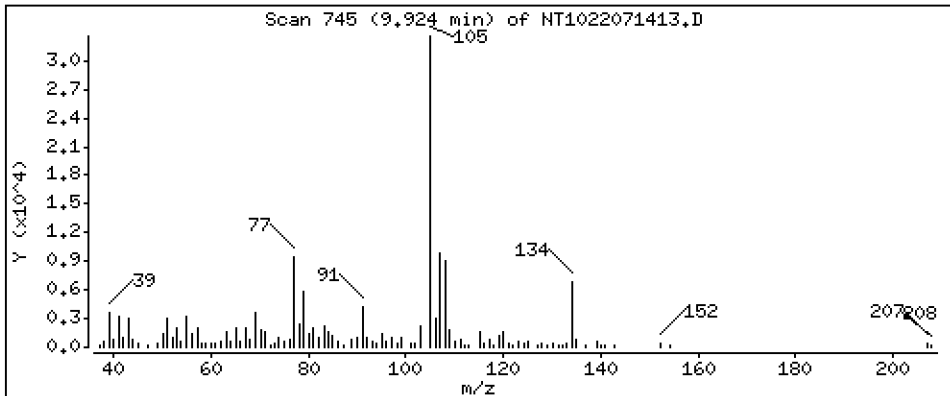
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 1,139 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

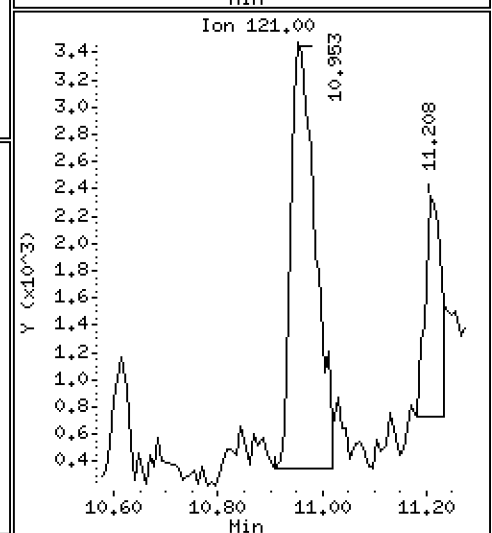
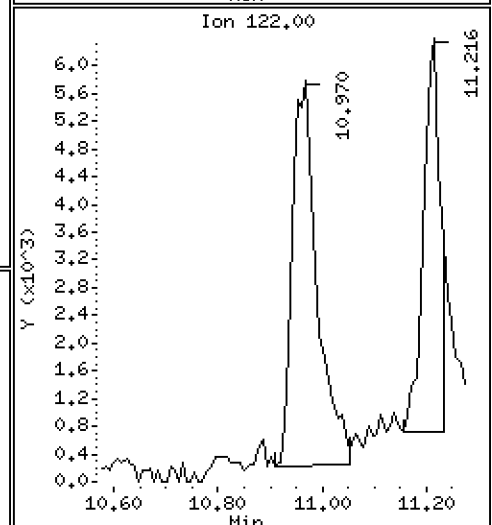
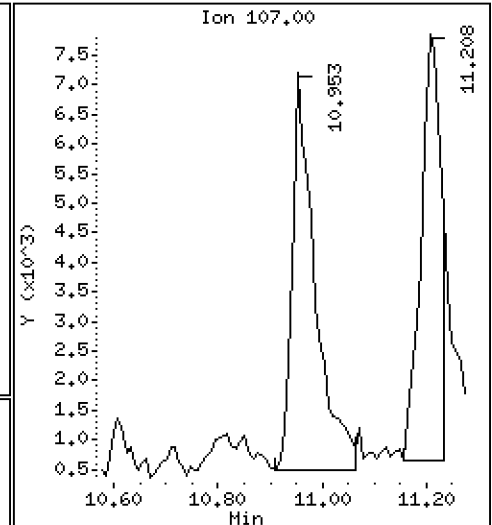
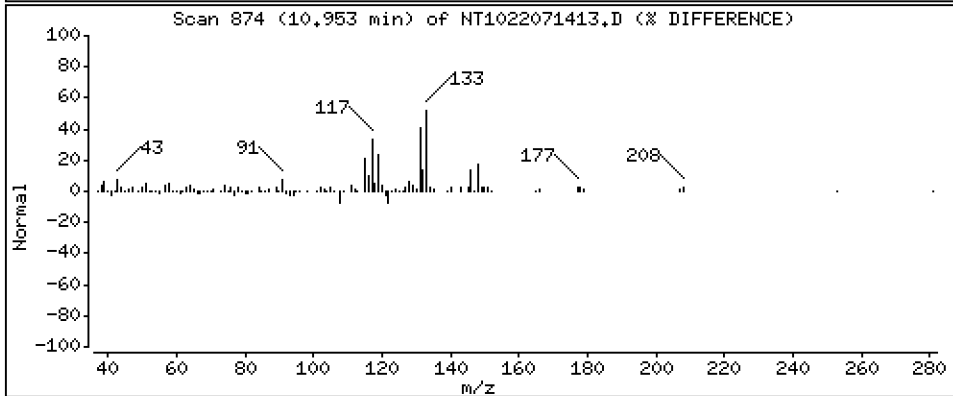
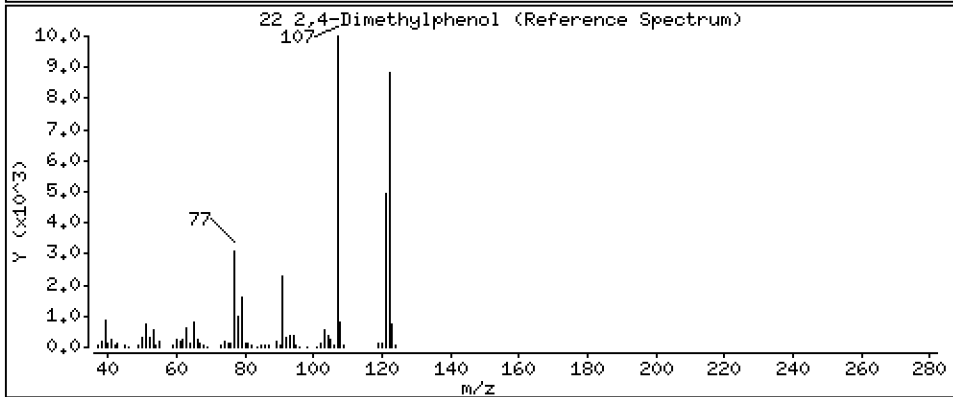
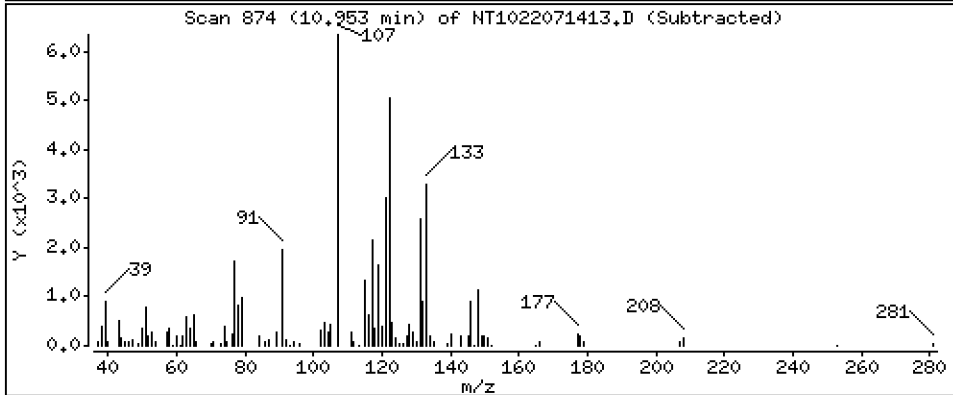
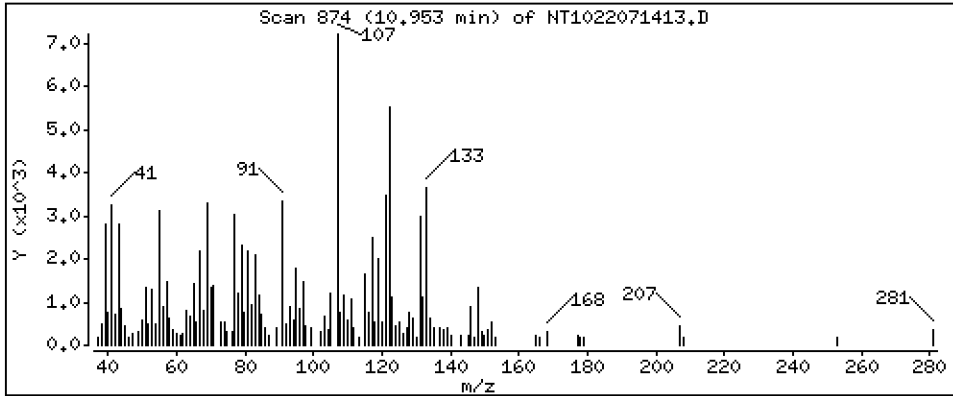
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,8991 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

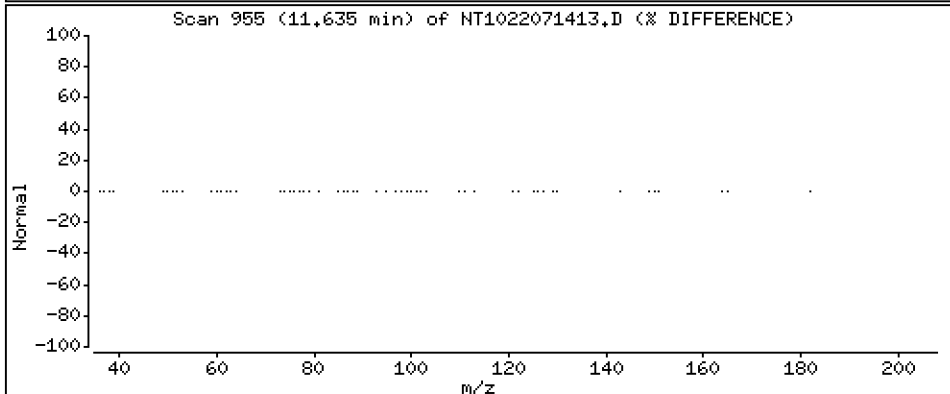
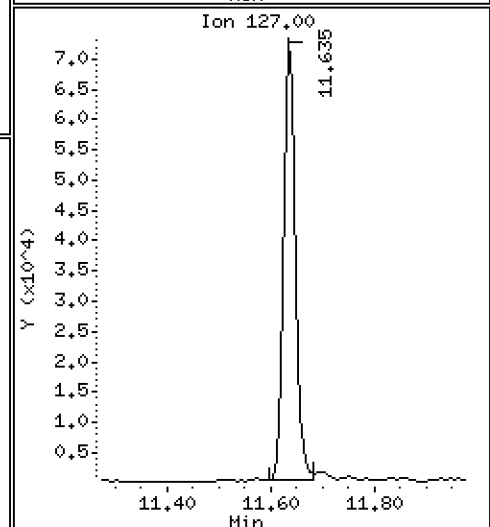
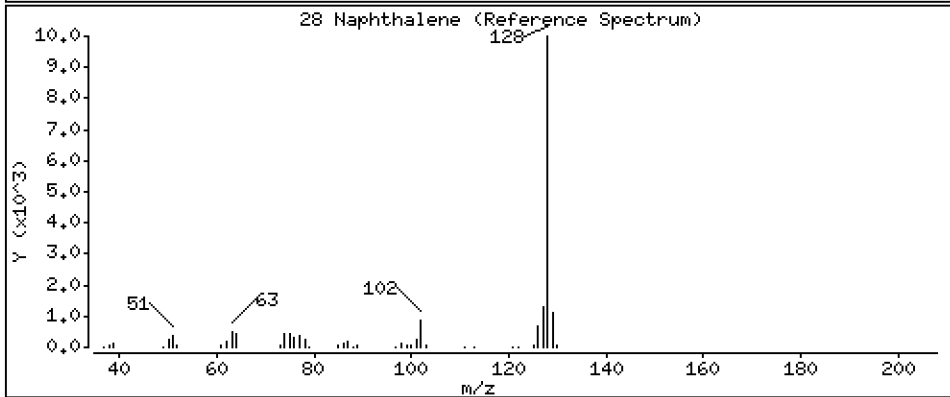
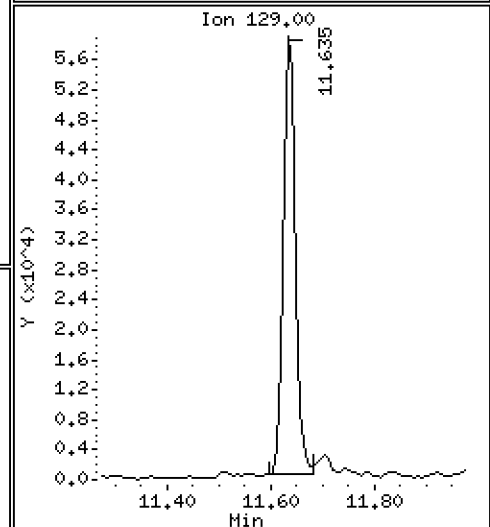
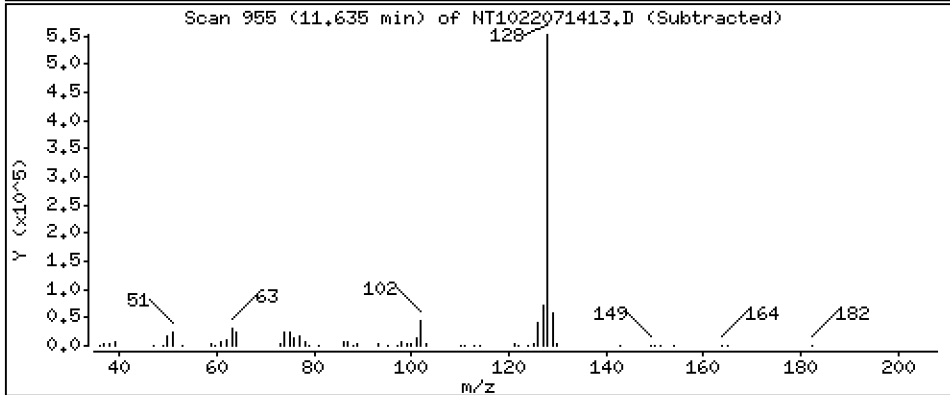
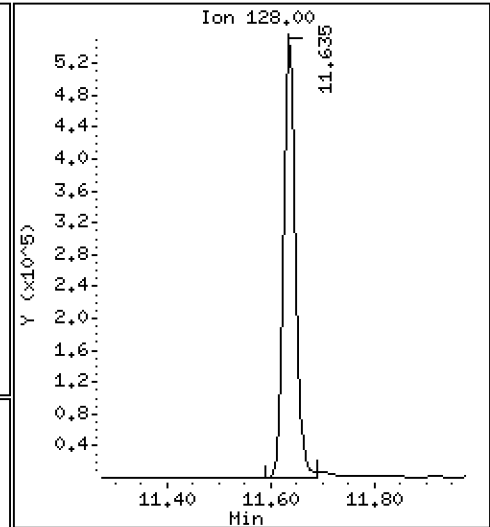
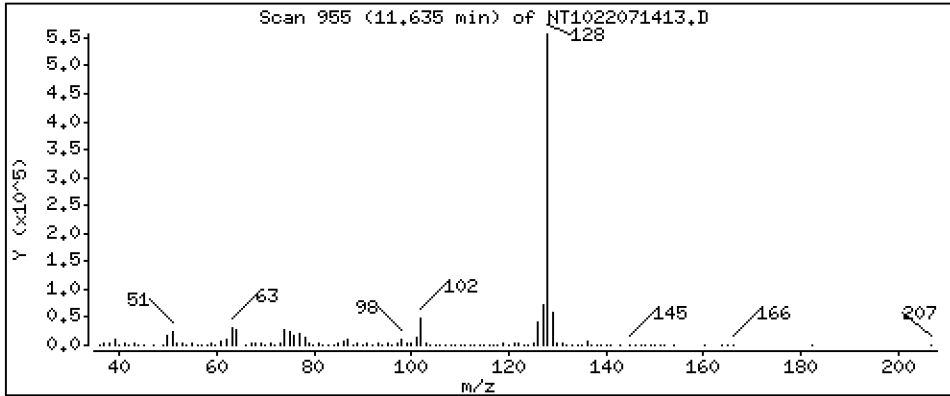
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 12,49 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

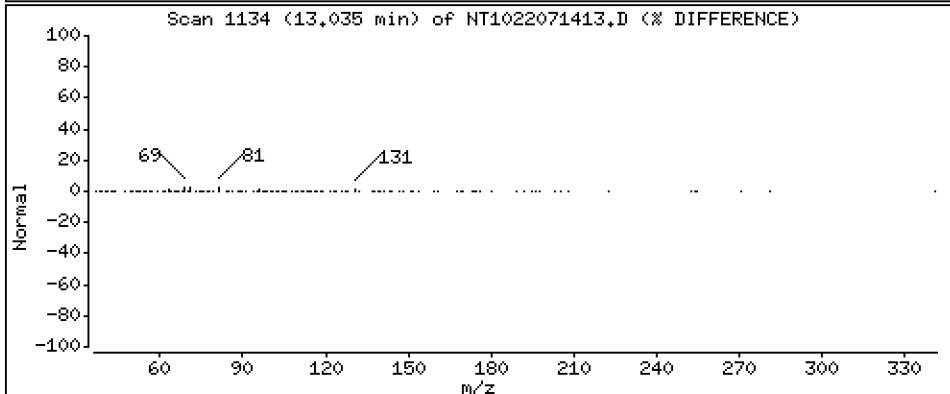
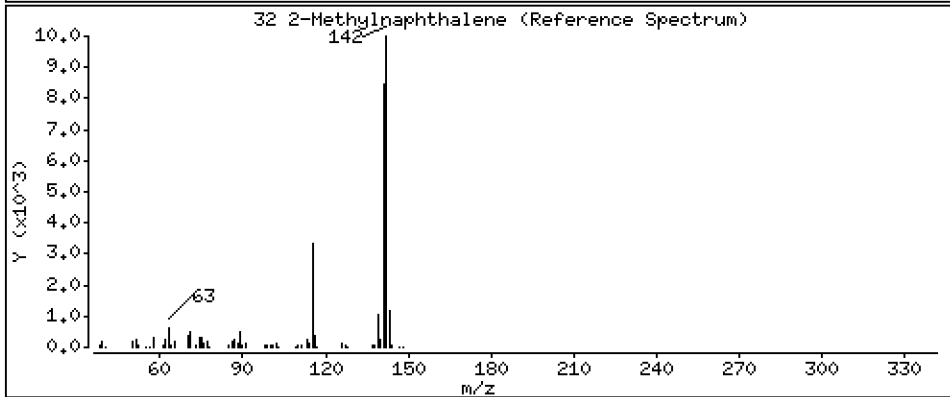
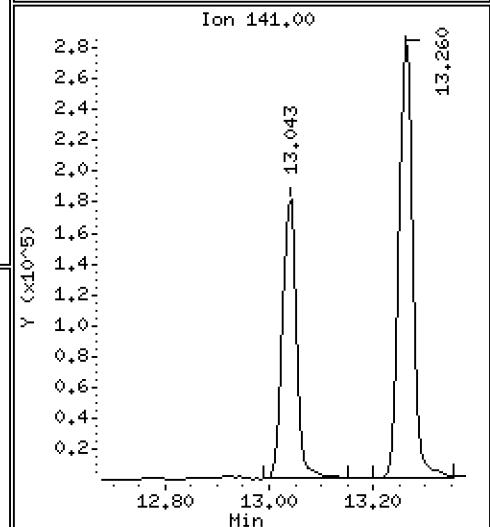
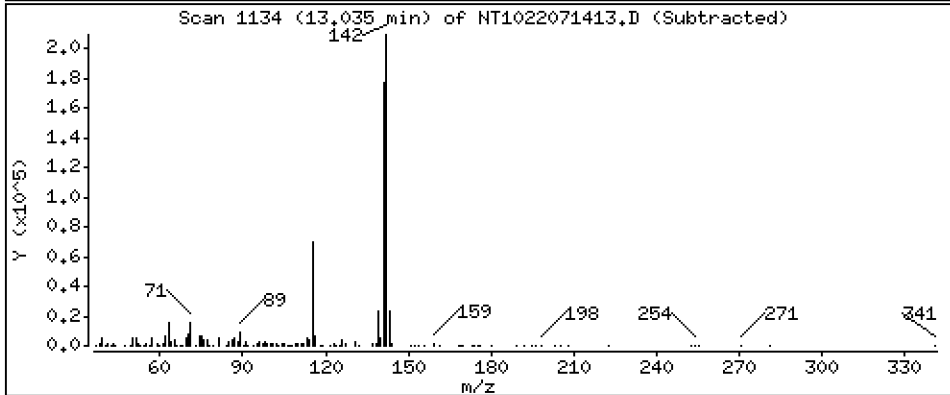
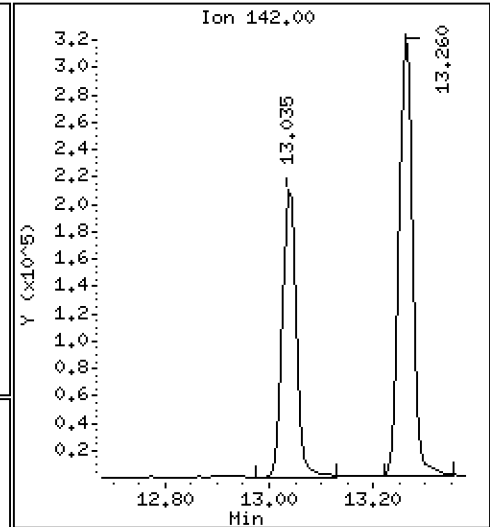
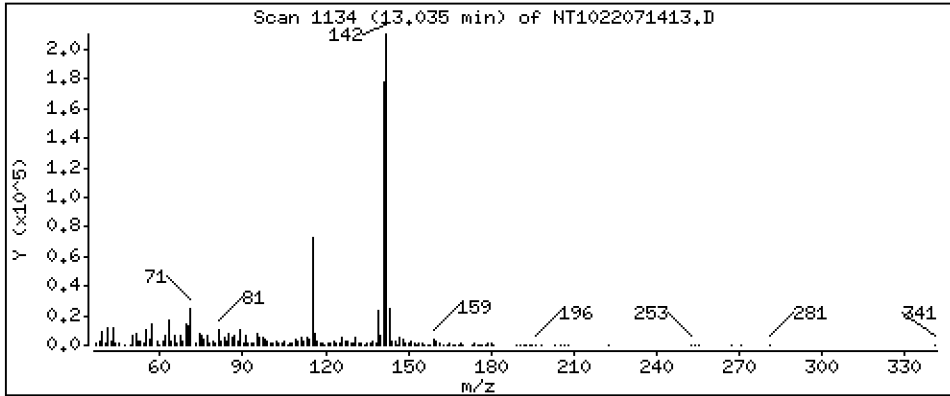
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 5,280 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

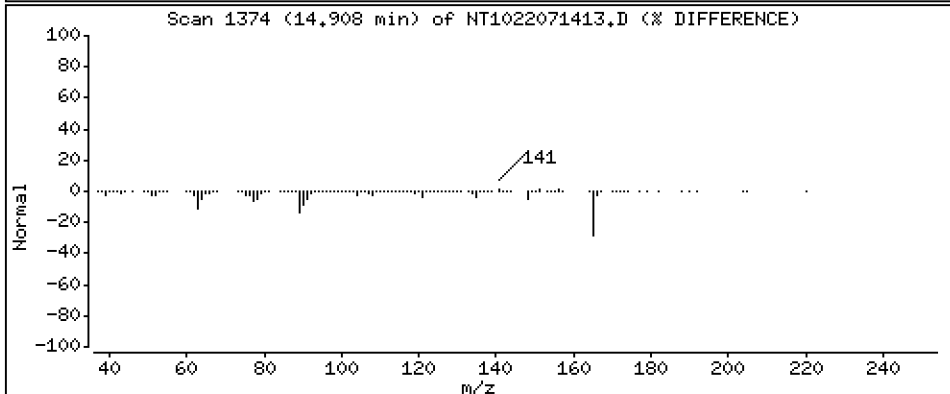
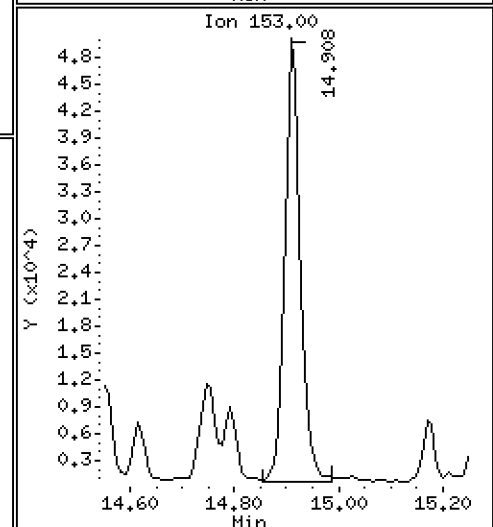
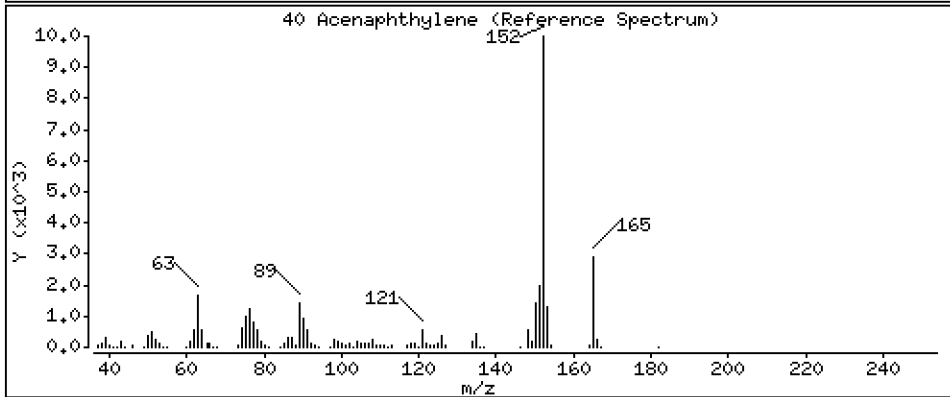
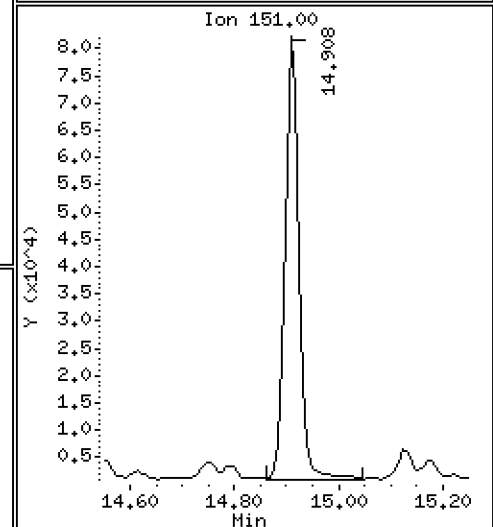
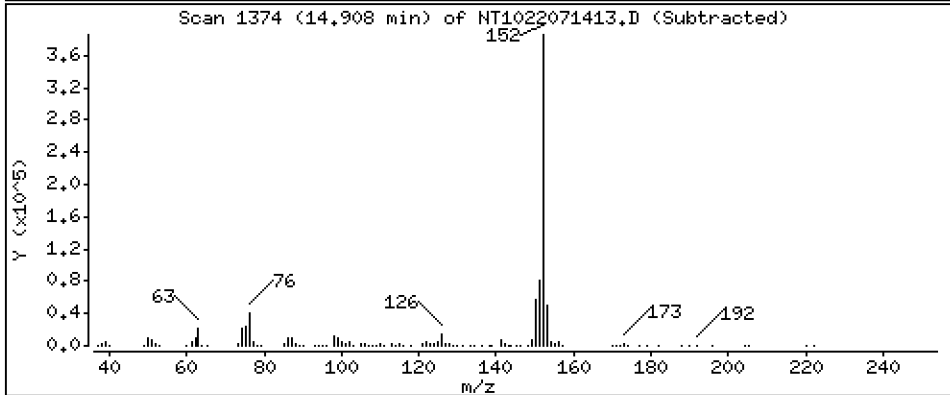
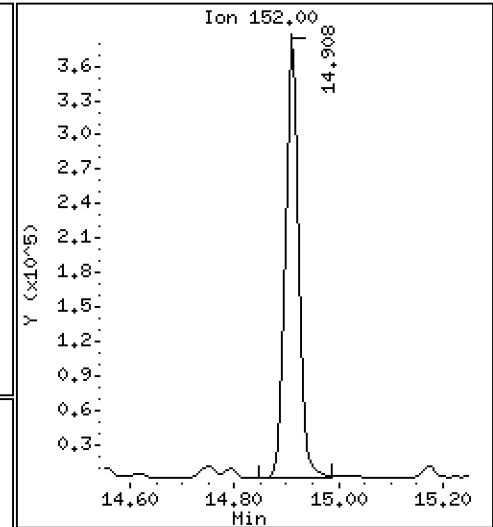
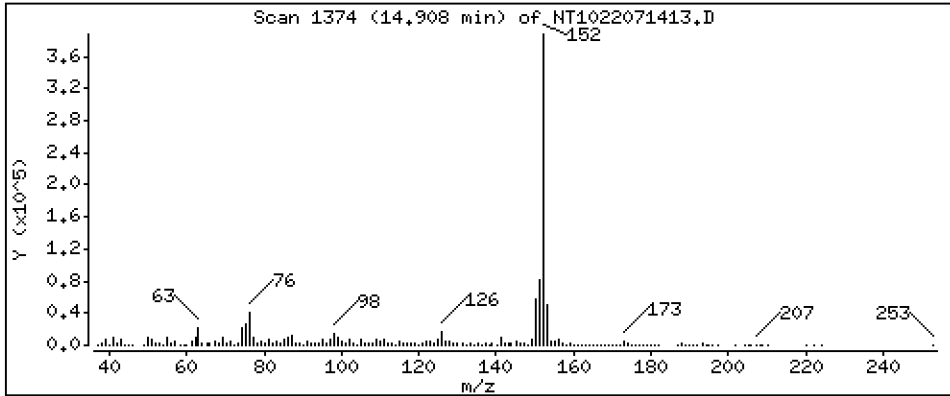
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 11,37 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 2200019-07,3

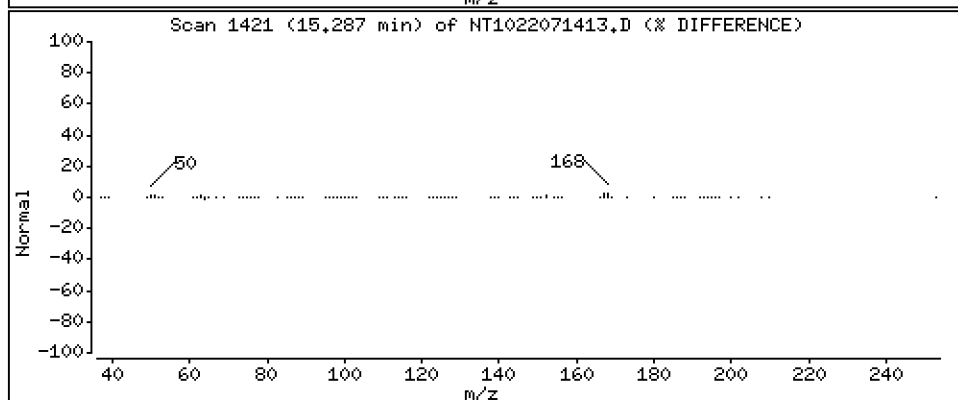
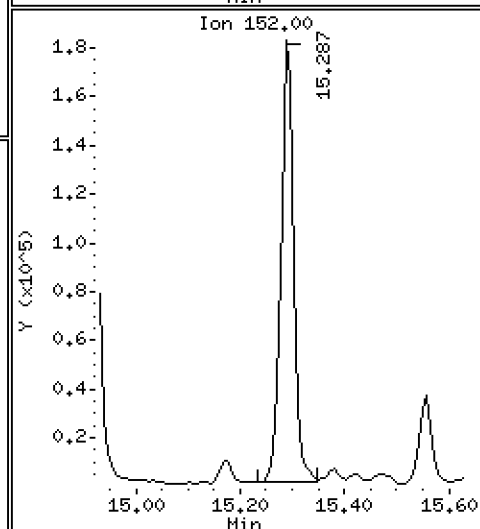
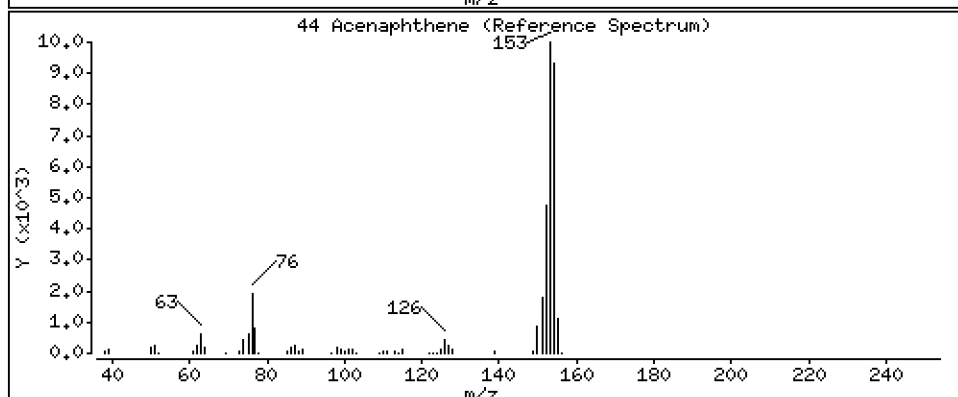
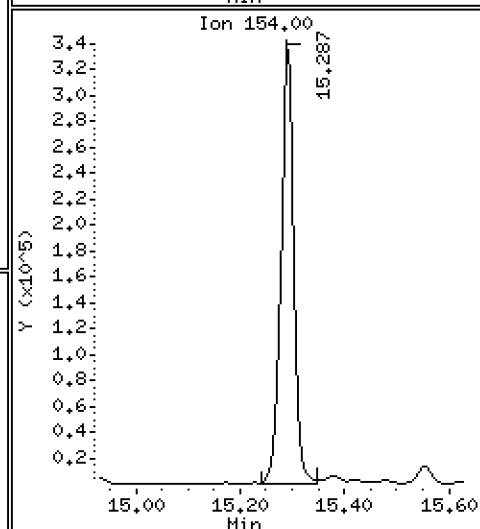
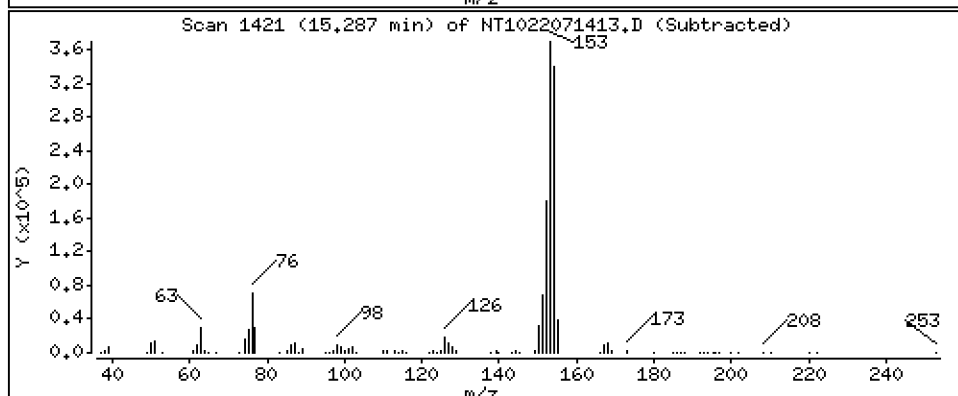
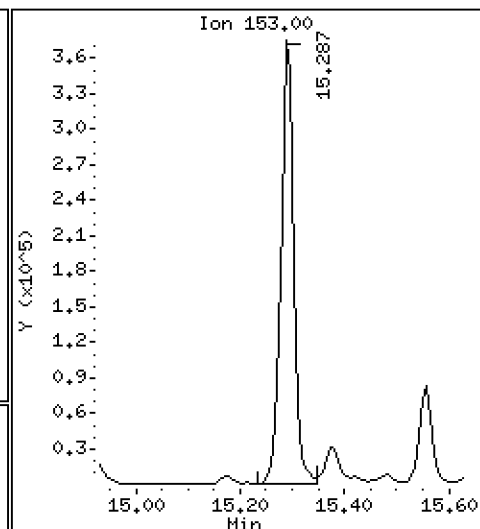
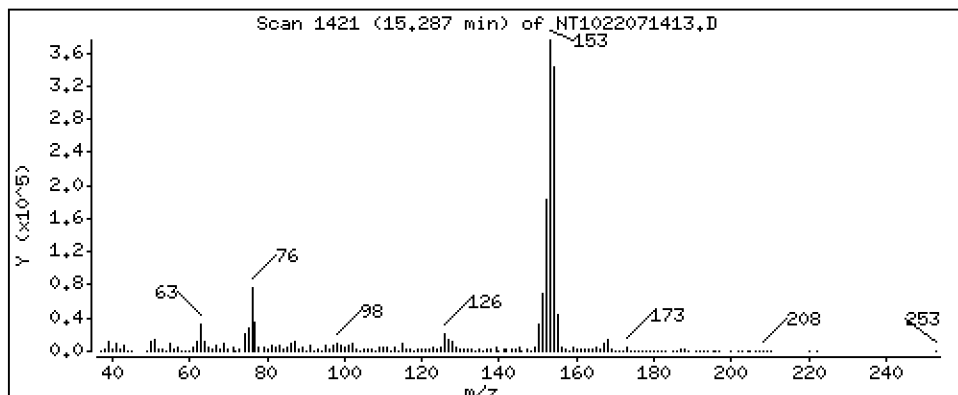
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 21,45 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

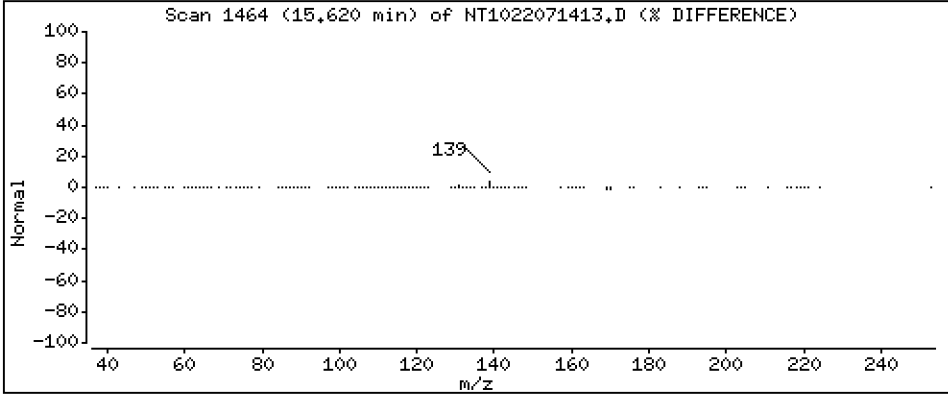
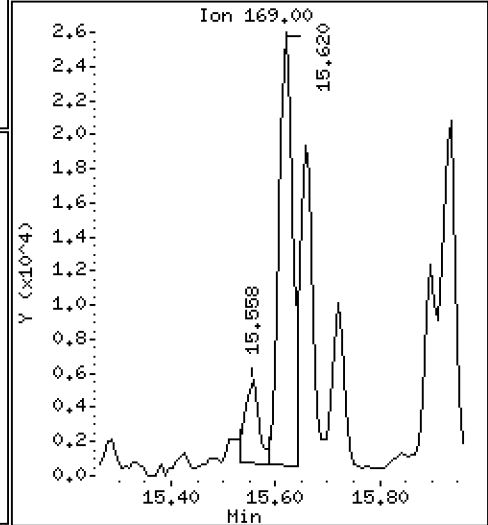
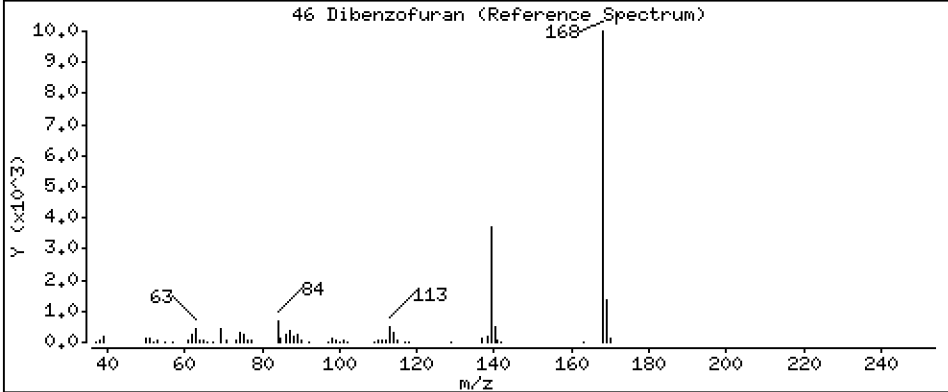
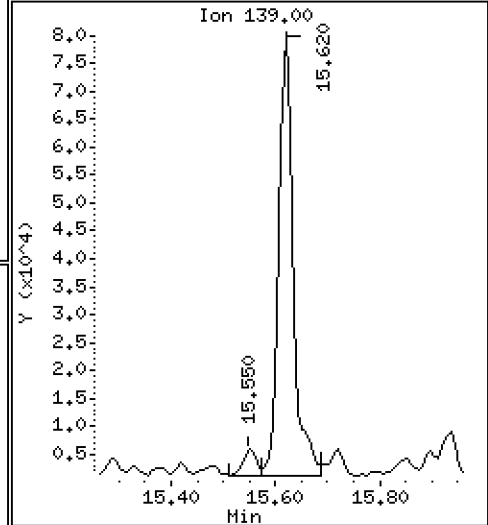
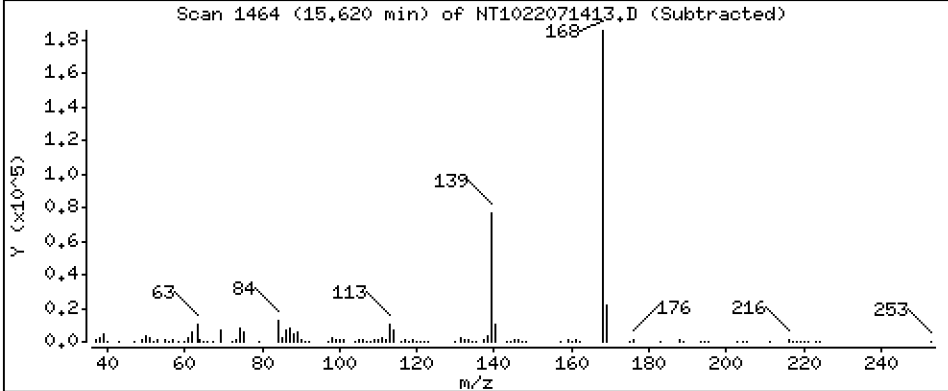
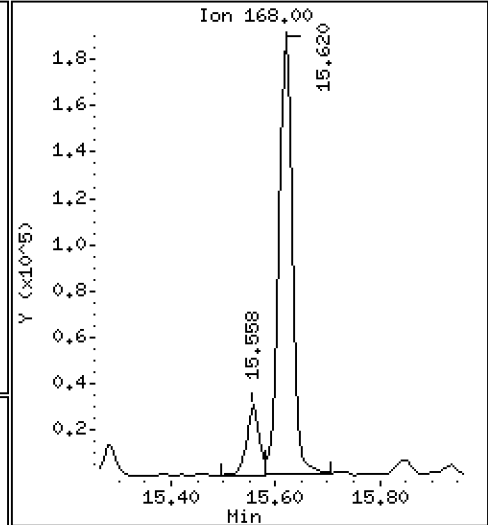
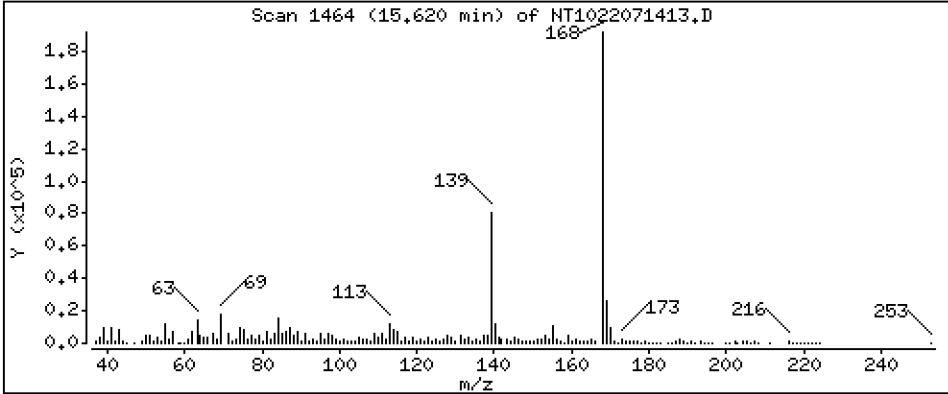
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 6,922 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

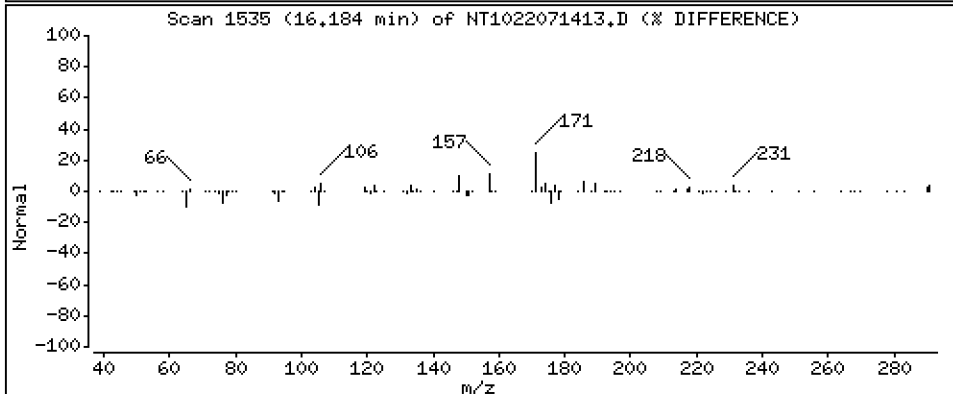
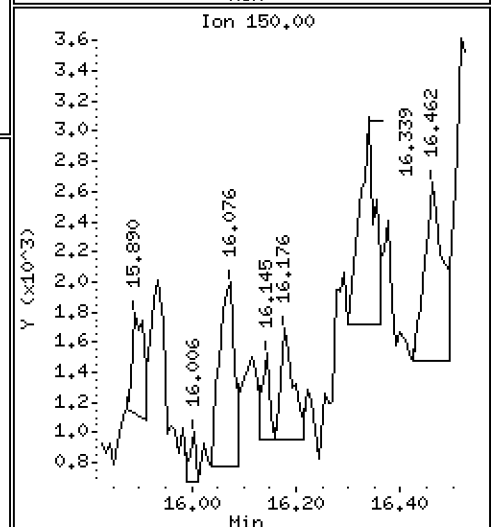
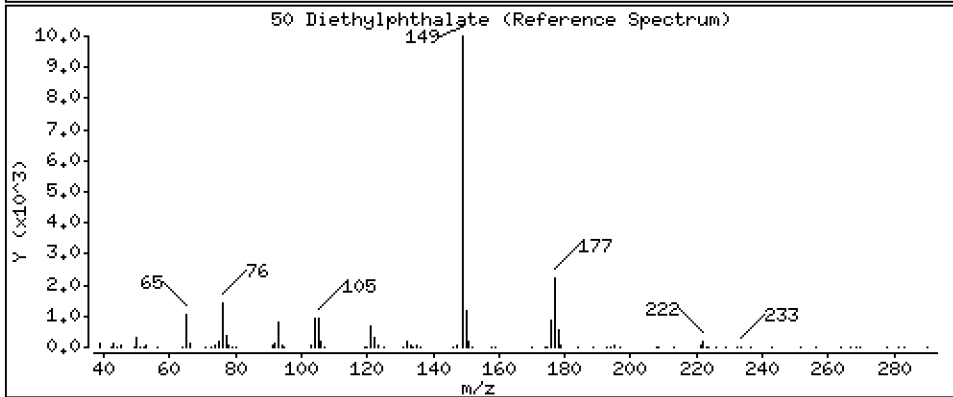
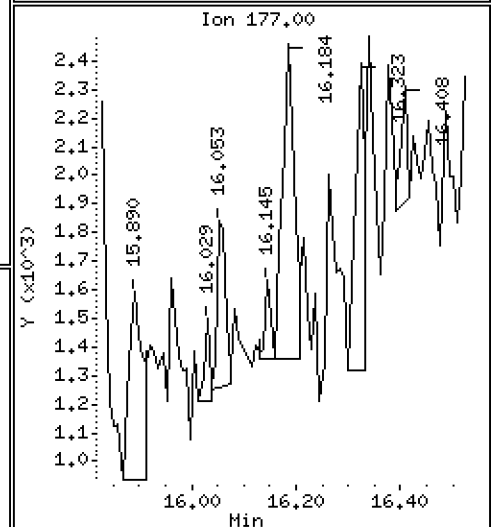
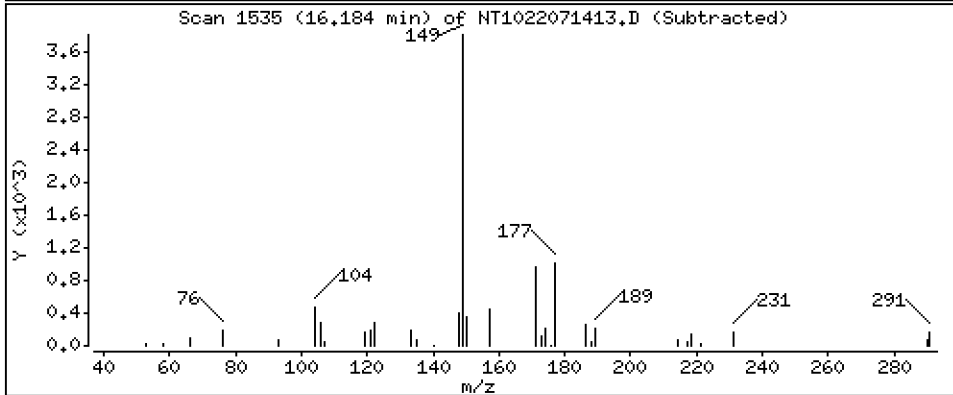
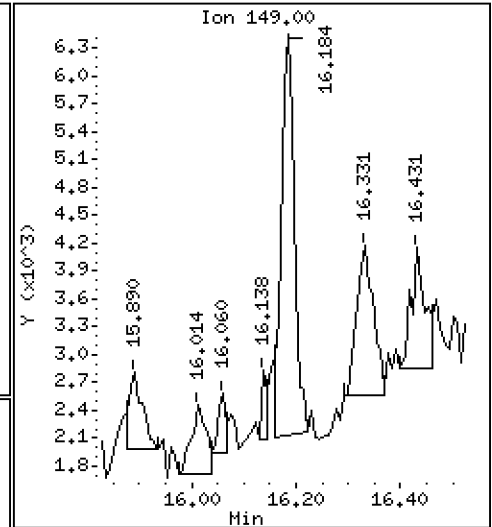
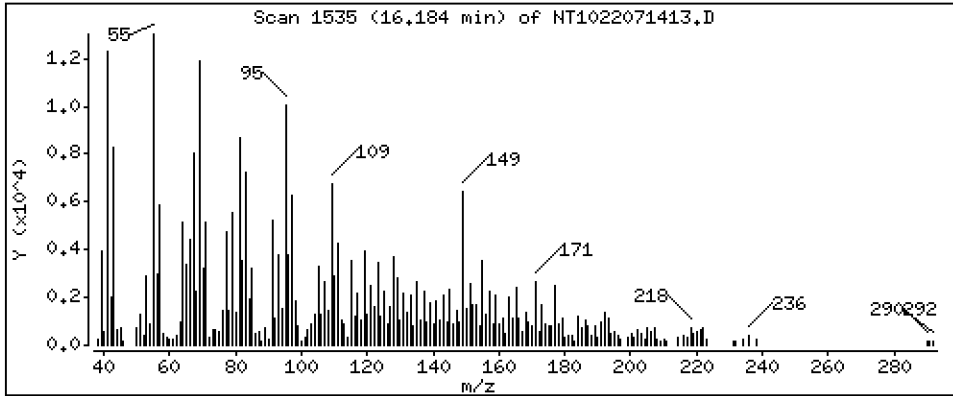
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2465 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 2200019-07,3

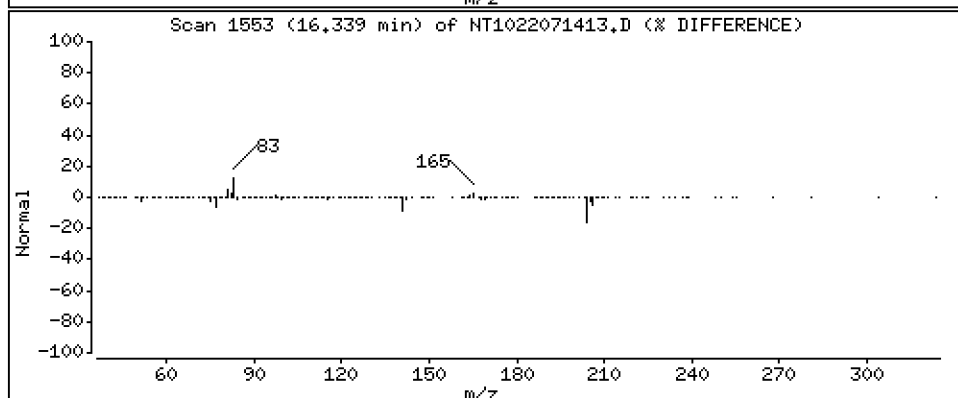
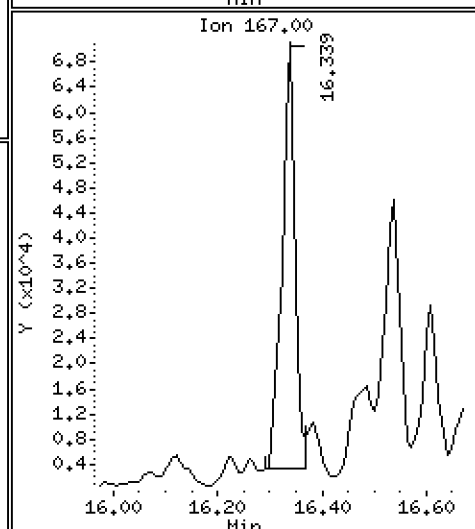
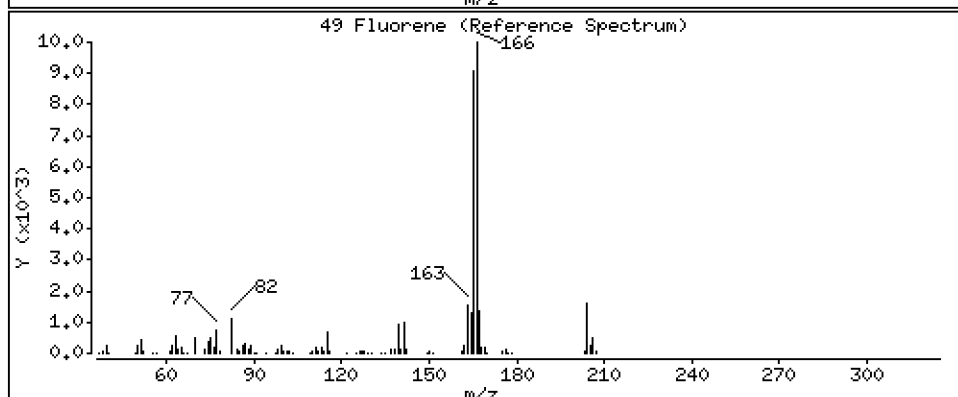
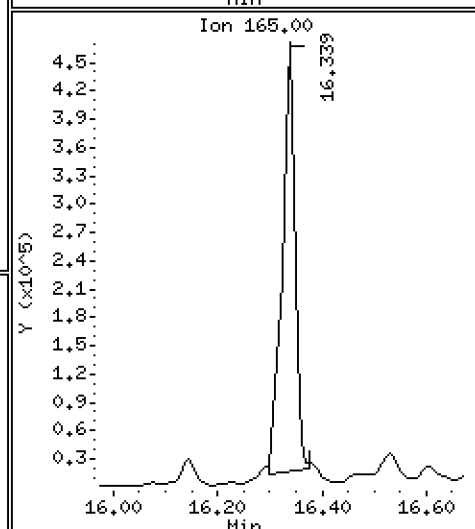
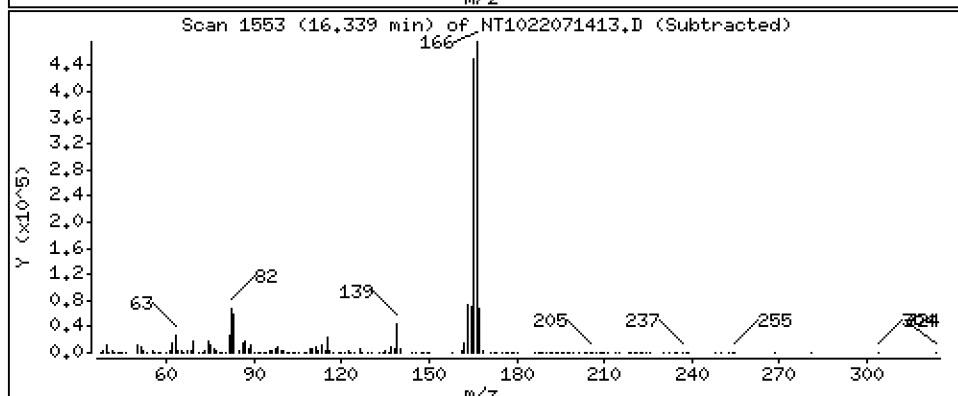
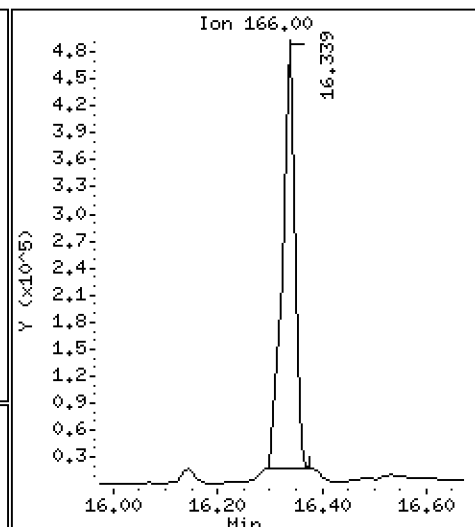
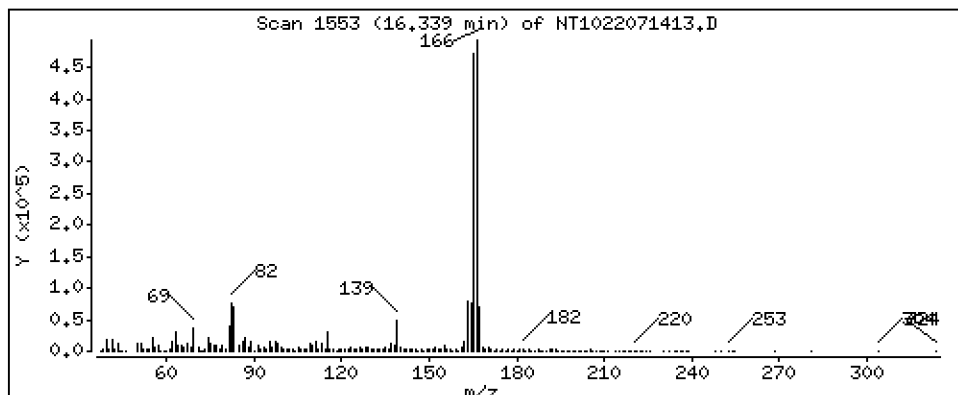
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 15,78 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

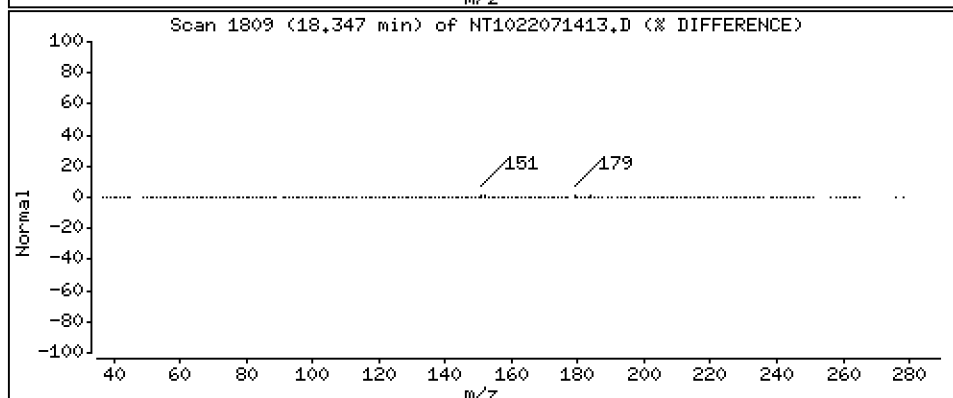
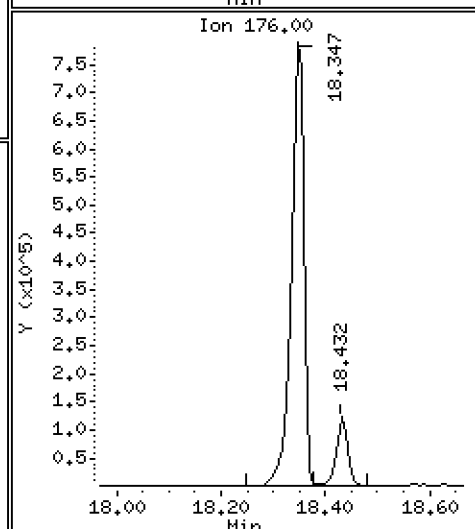
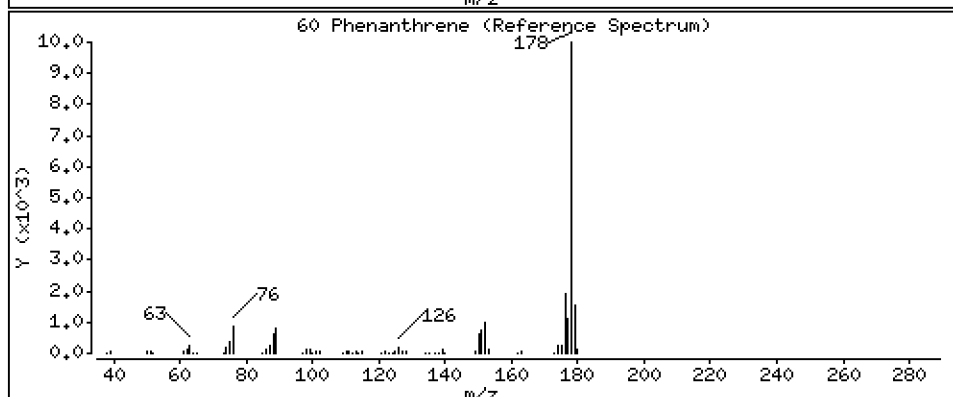
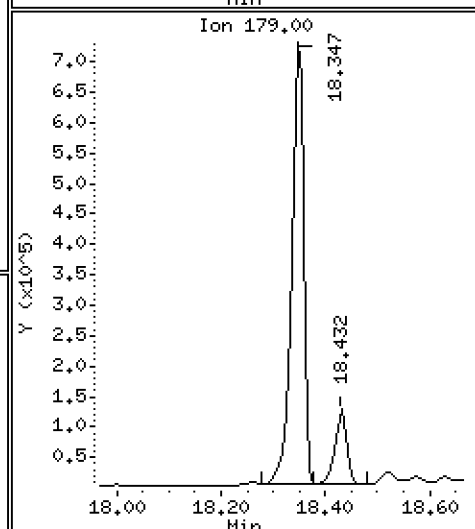
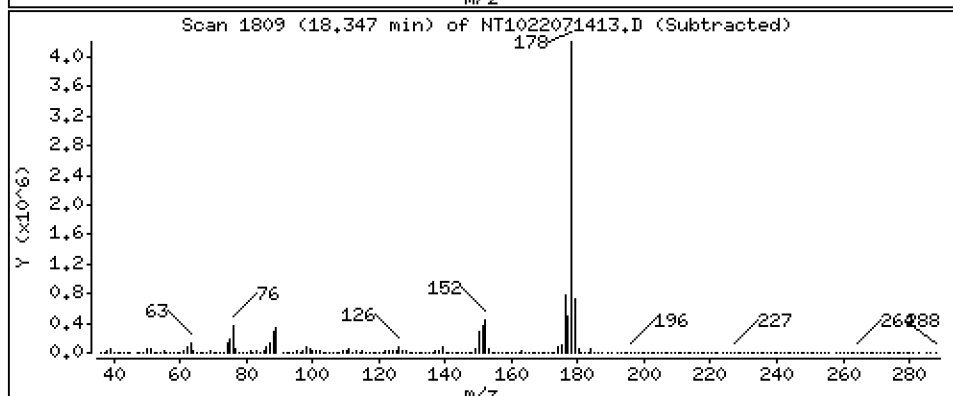
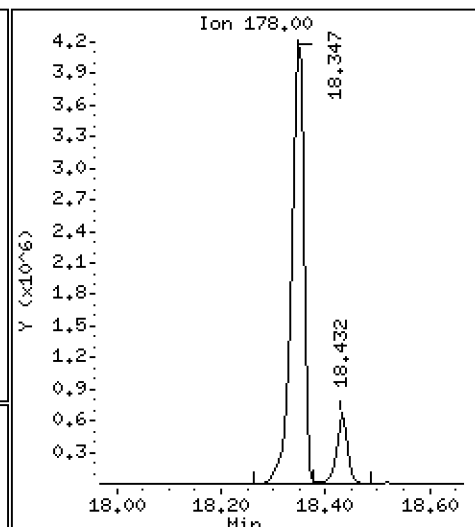
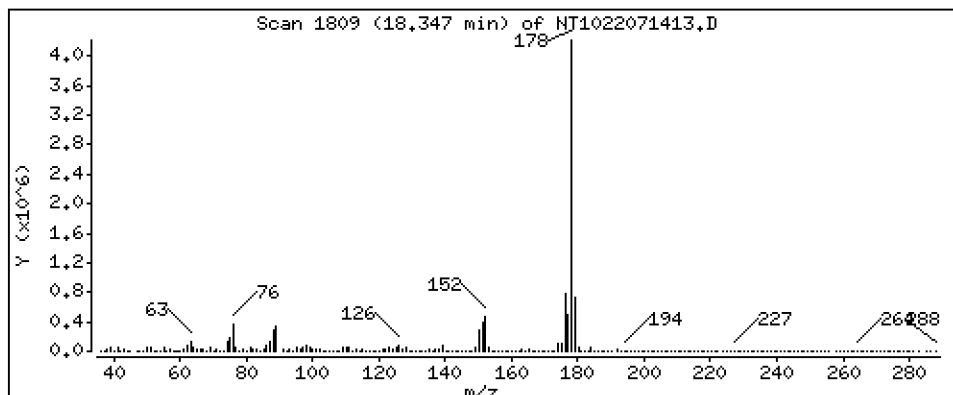
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 277,5 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

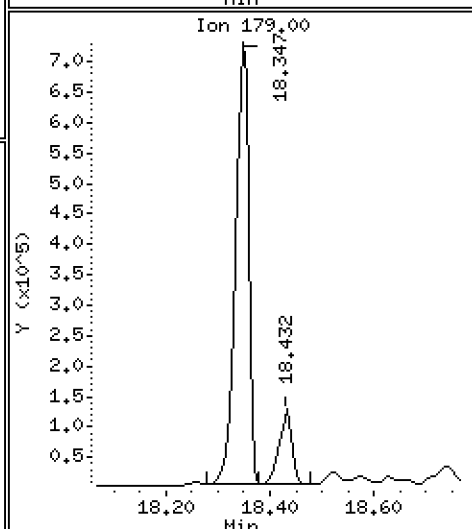
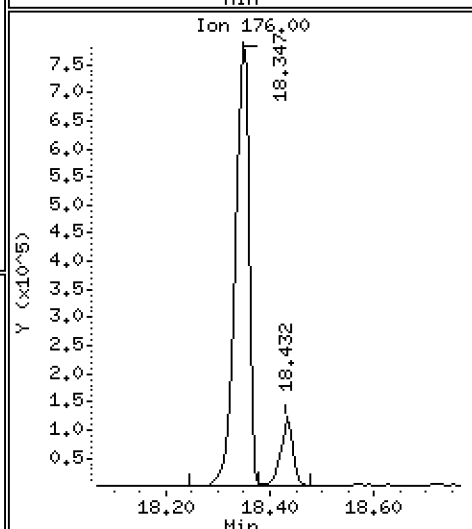
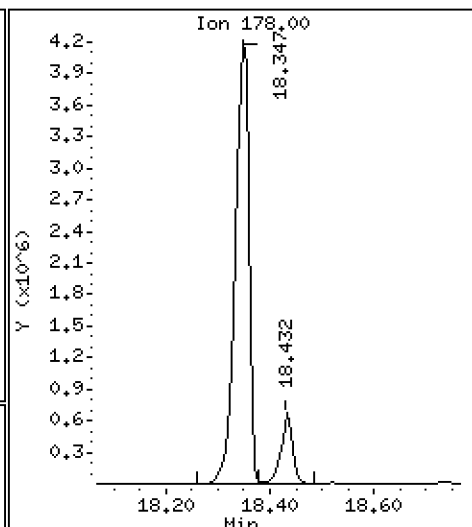
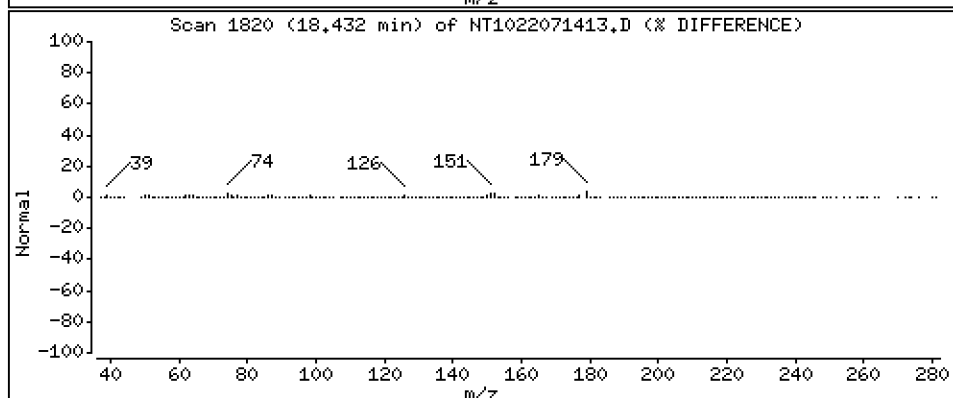
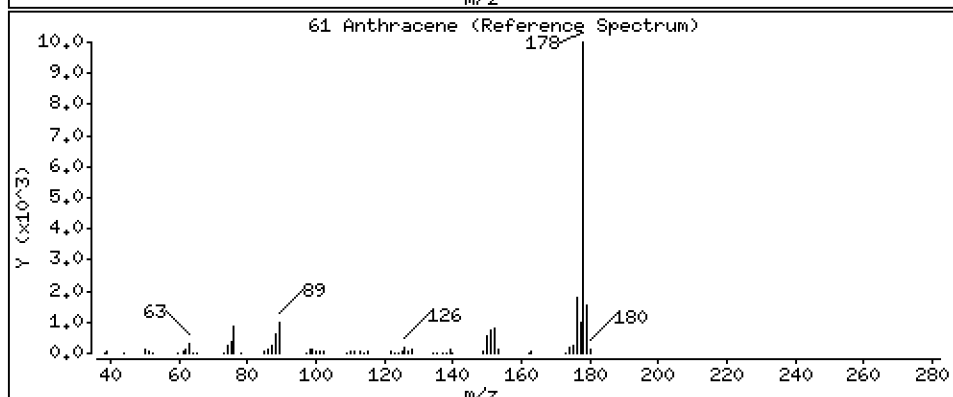
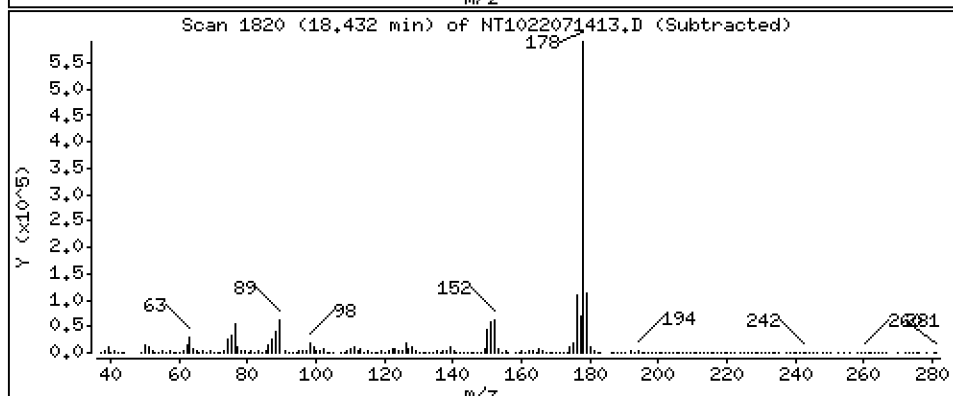
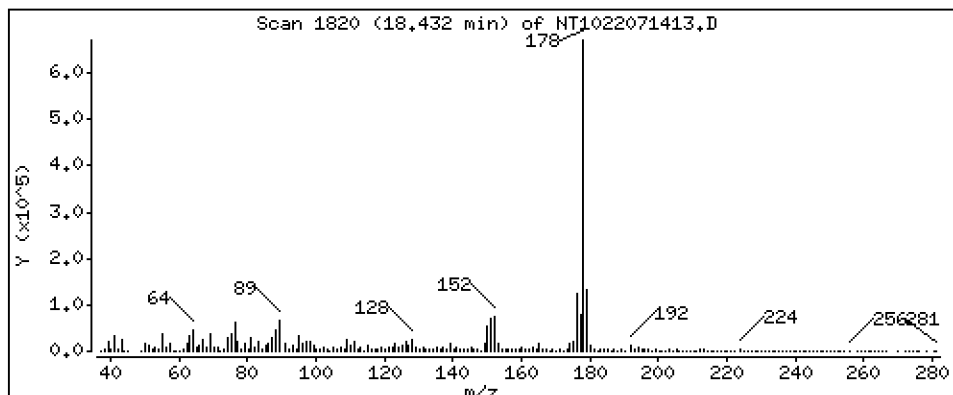
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 35,43 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

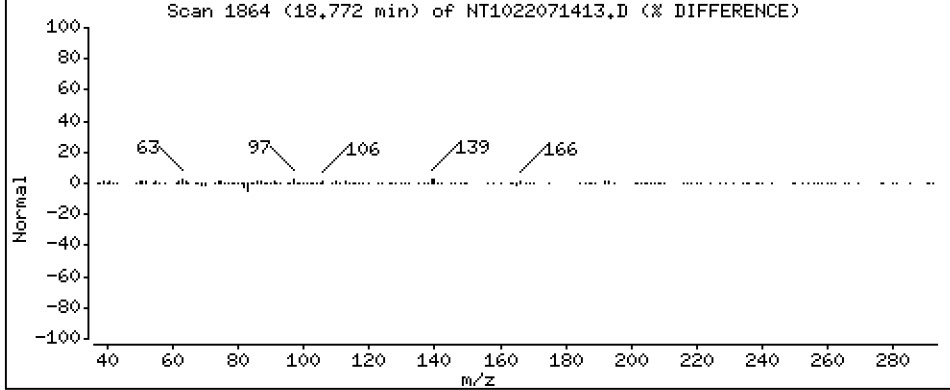
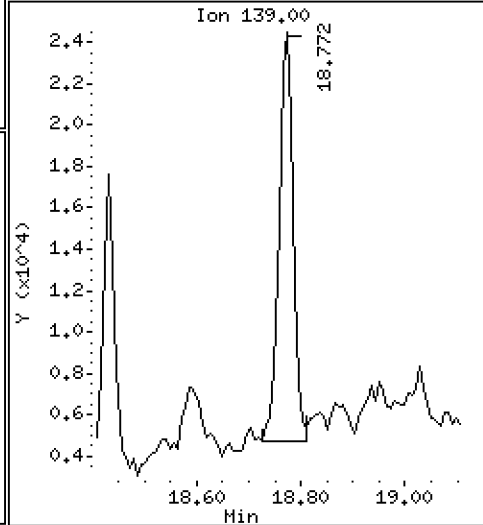
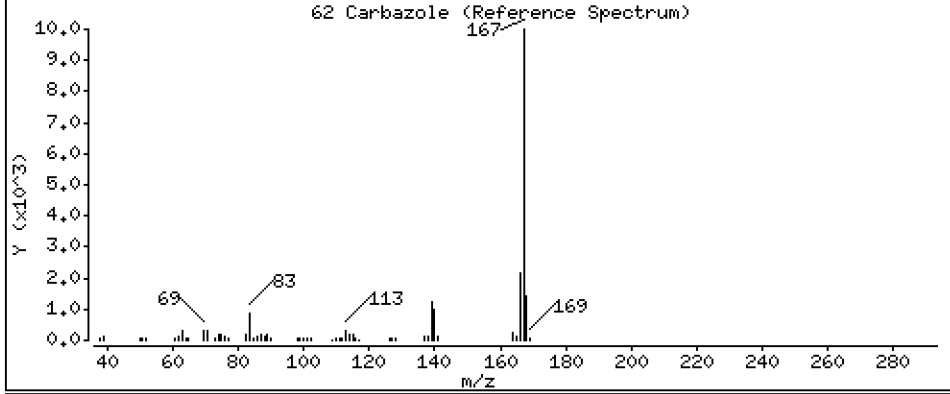
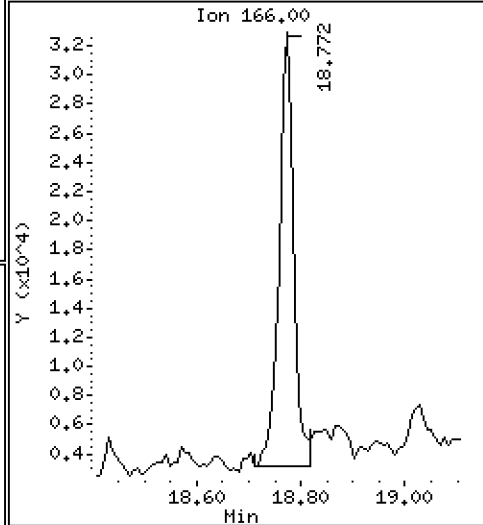
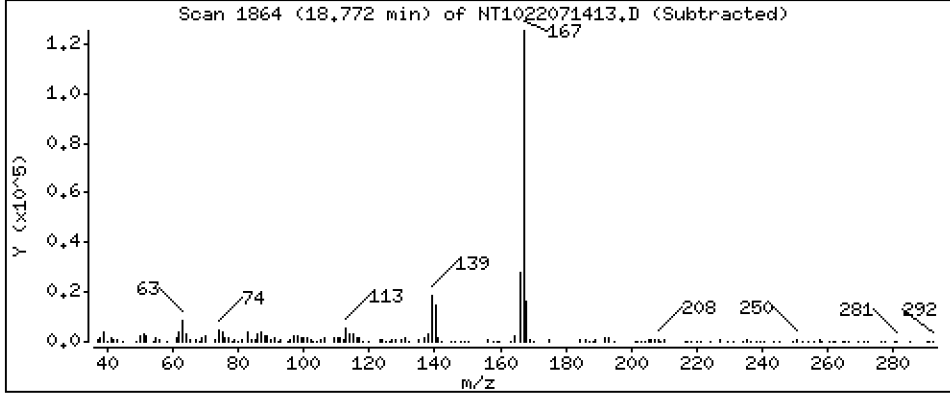
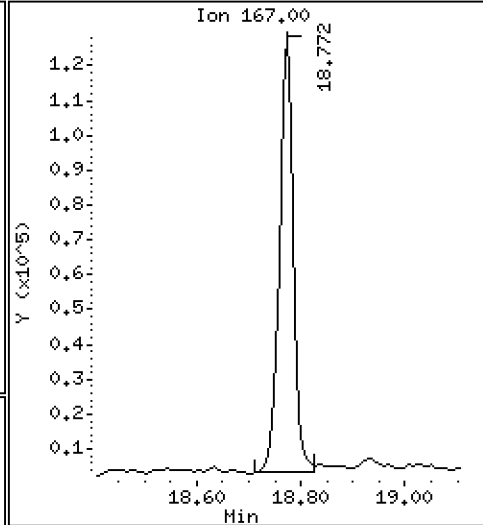
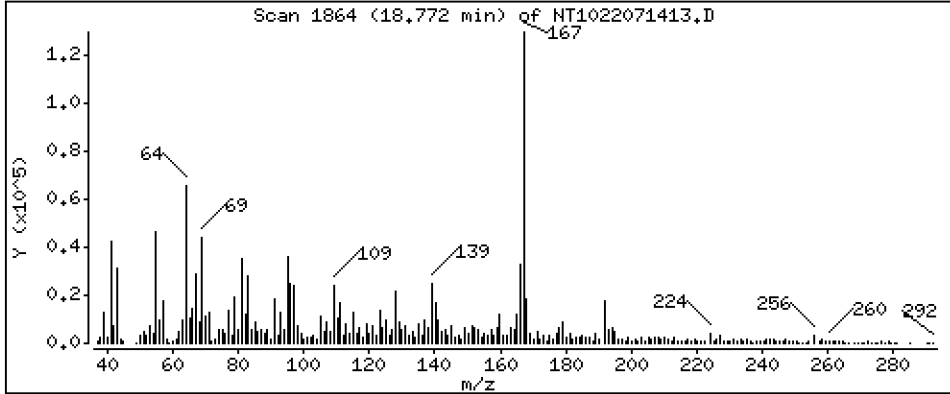
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 9,089 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

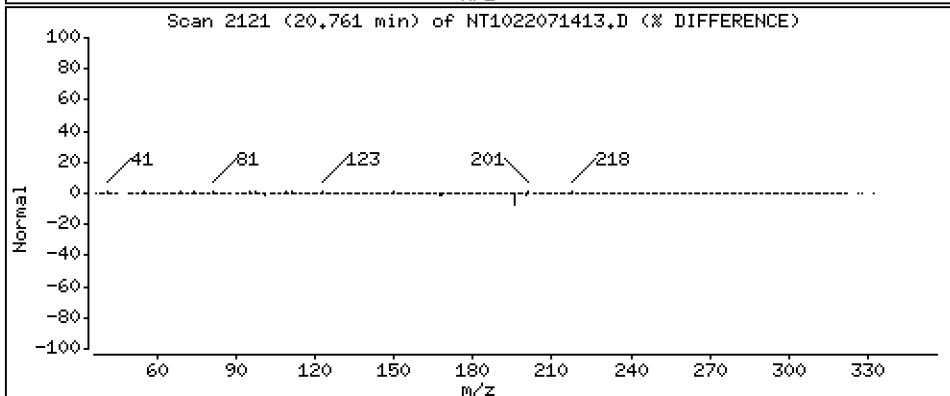
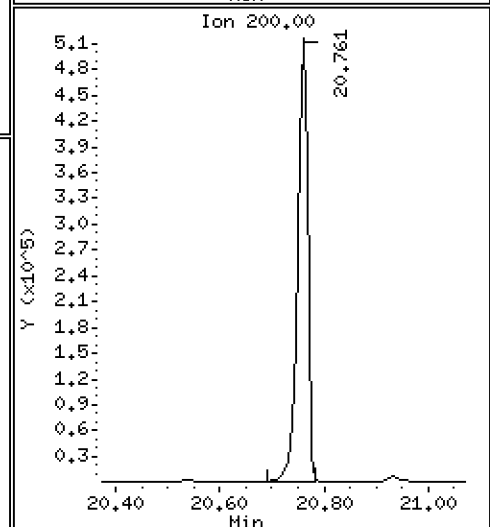
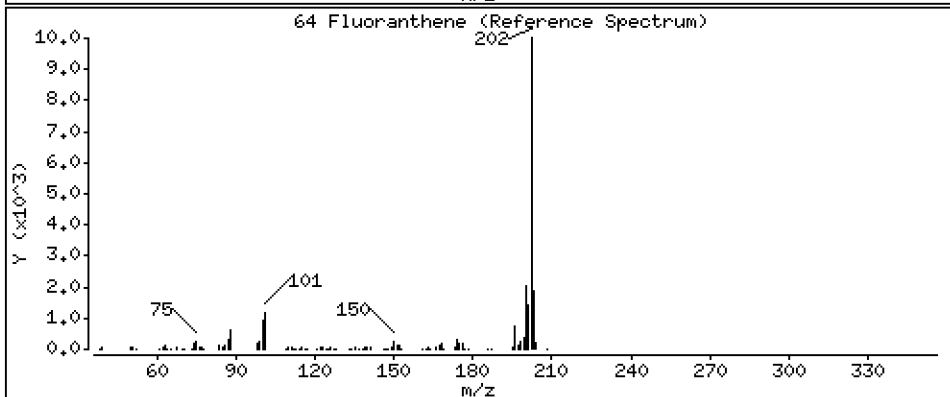
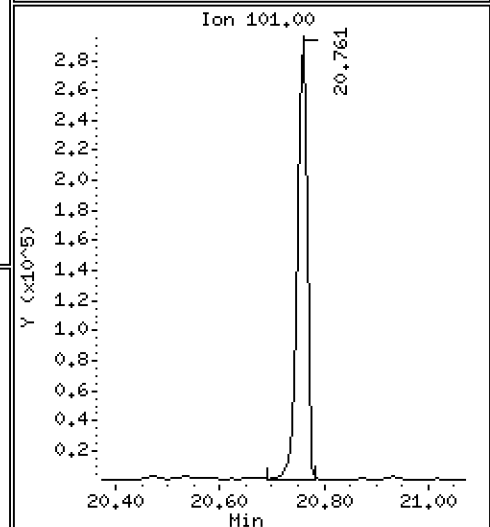
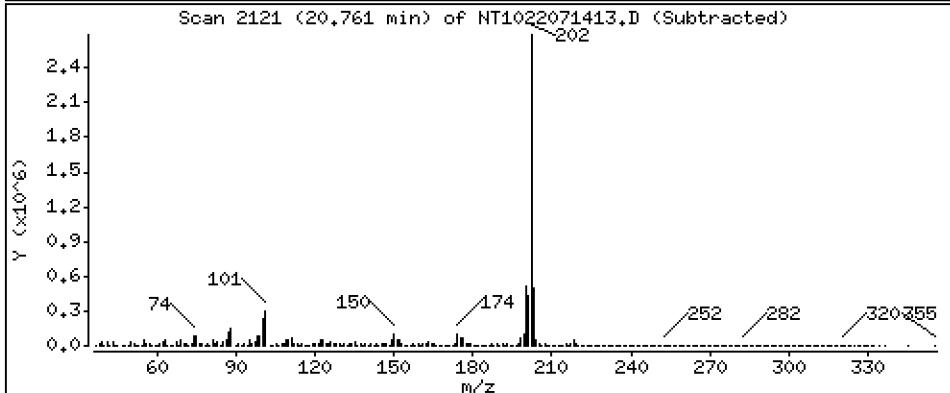
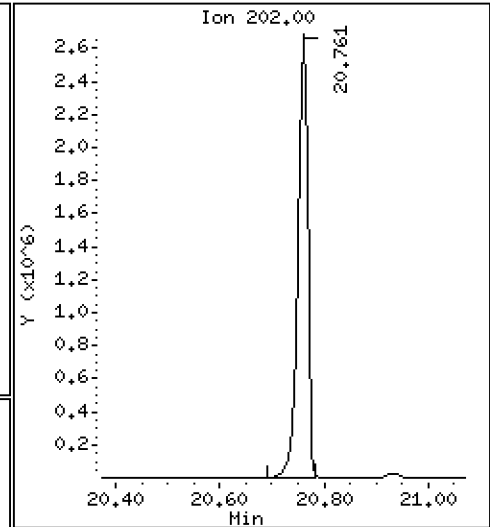
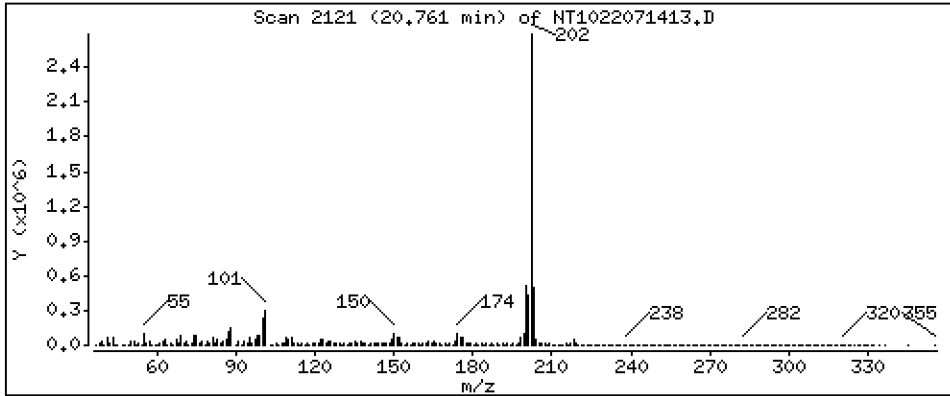
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 101,2 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

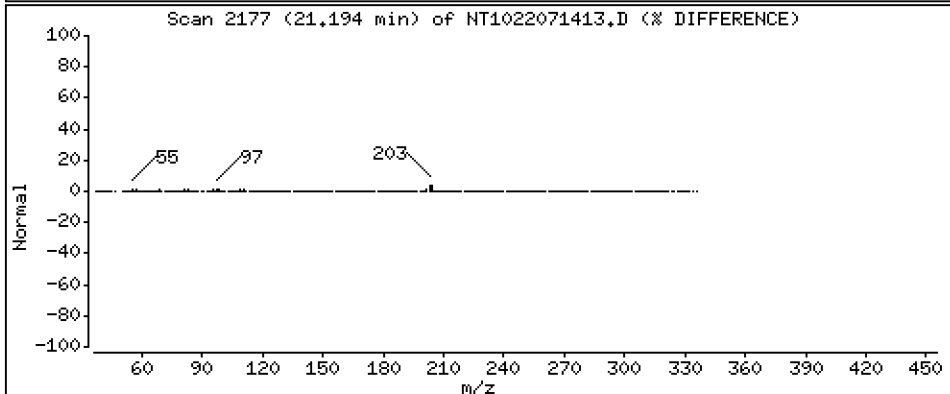
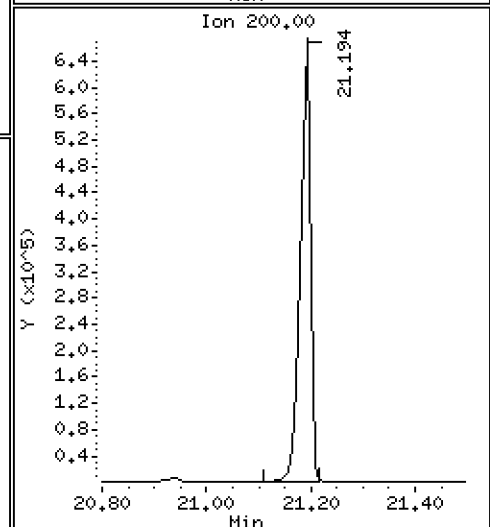
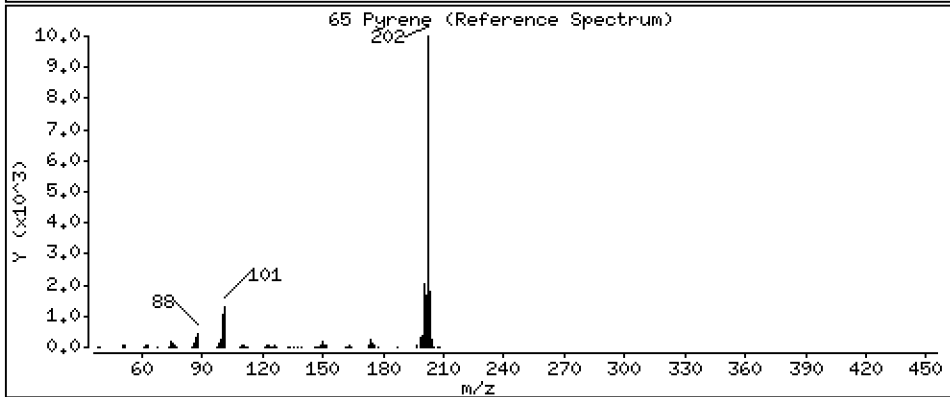
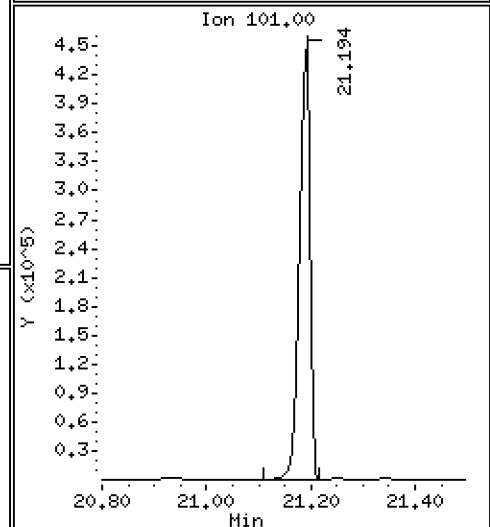
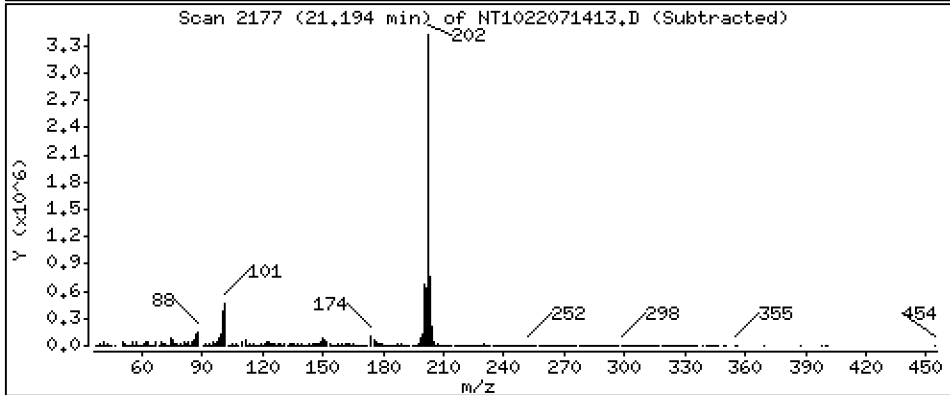
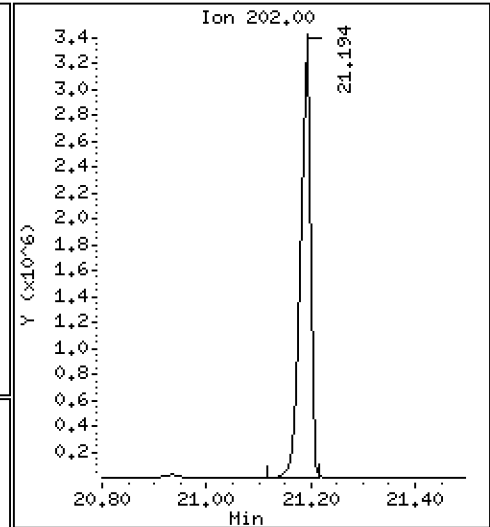
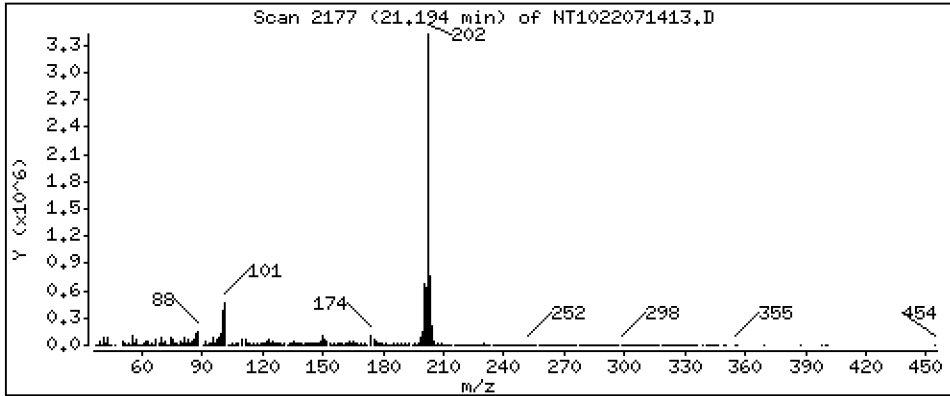
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 66,47 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

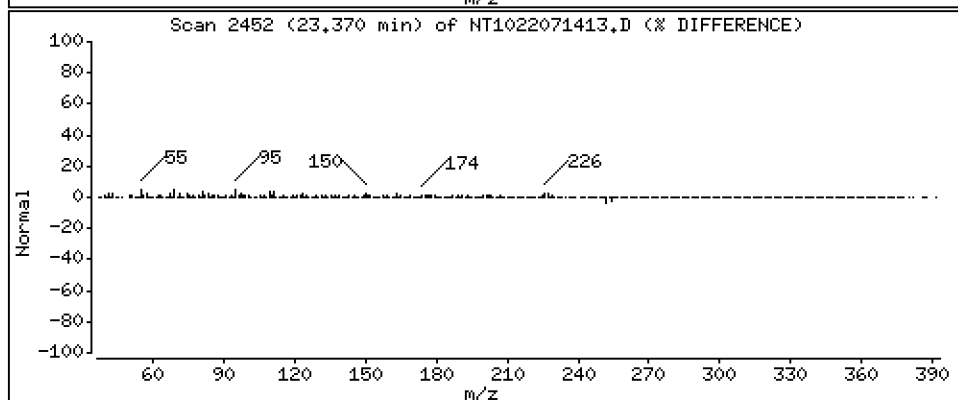
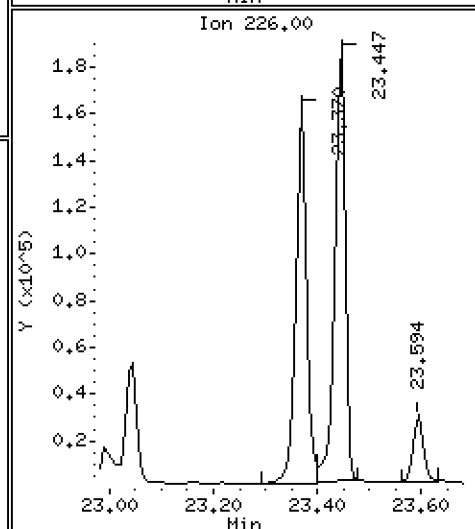
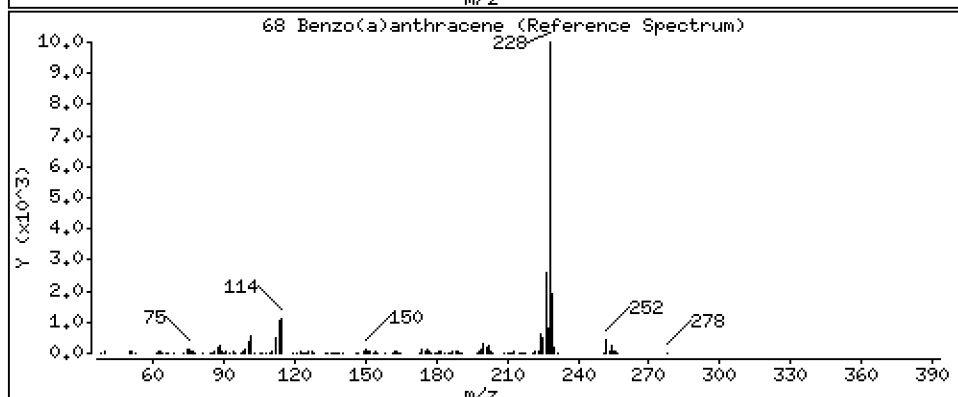
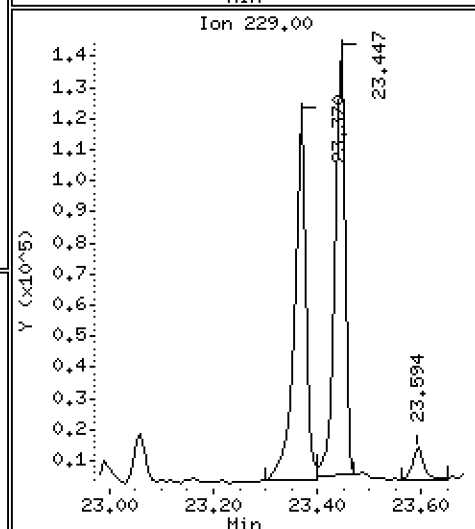
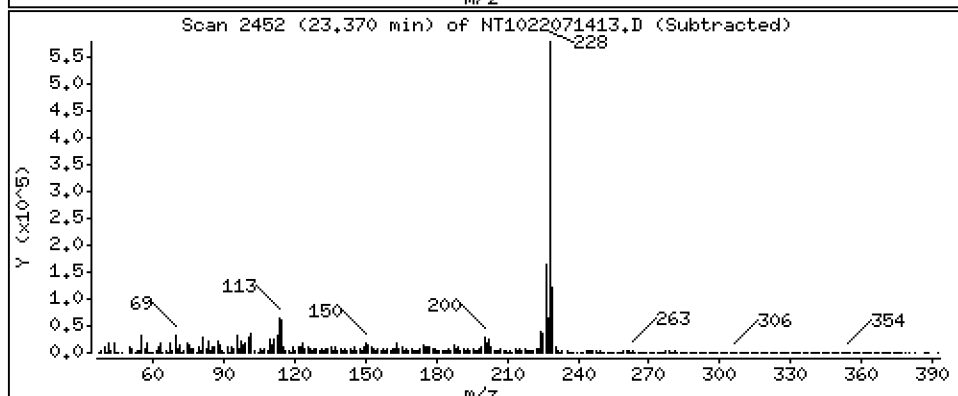
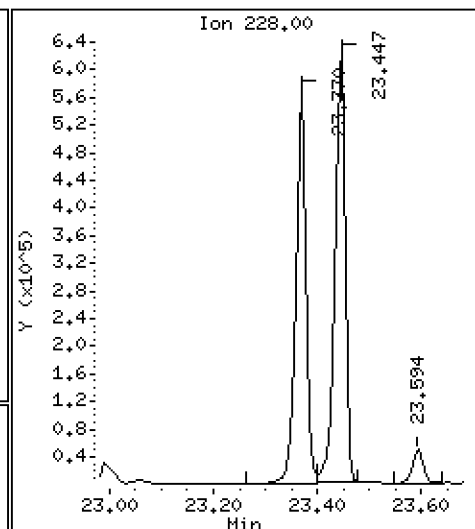
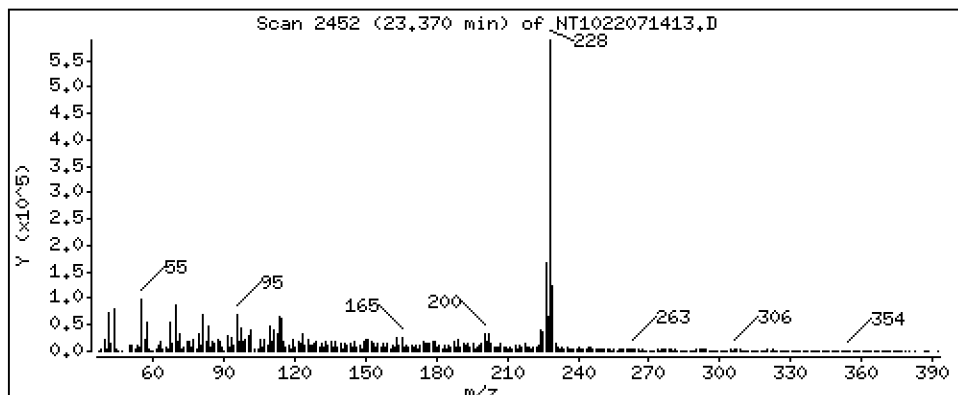
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 68,76 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 2200019-07,3

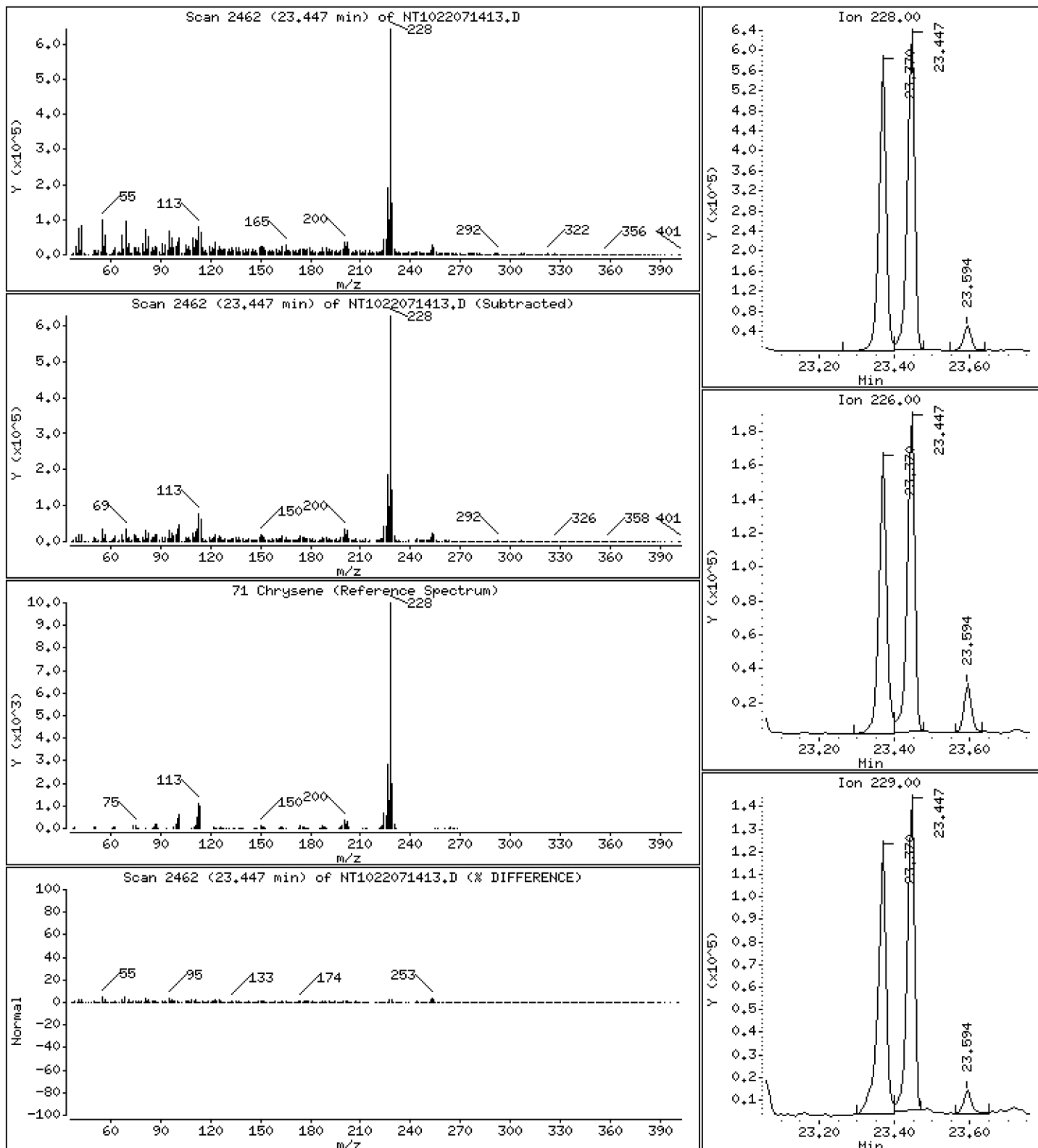
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 70,32 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

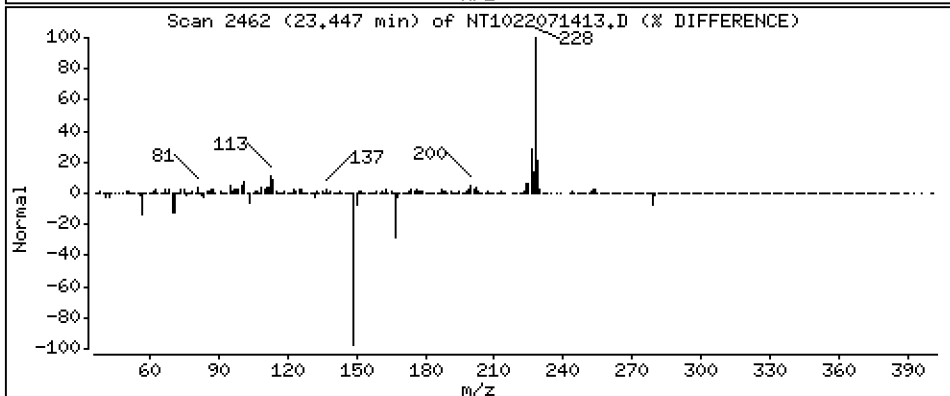
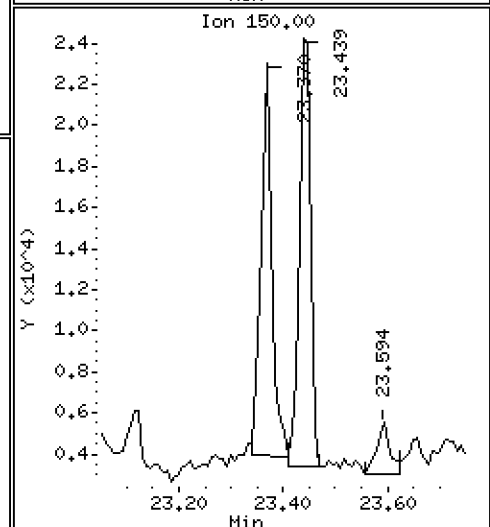
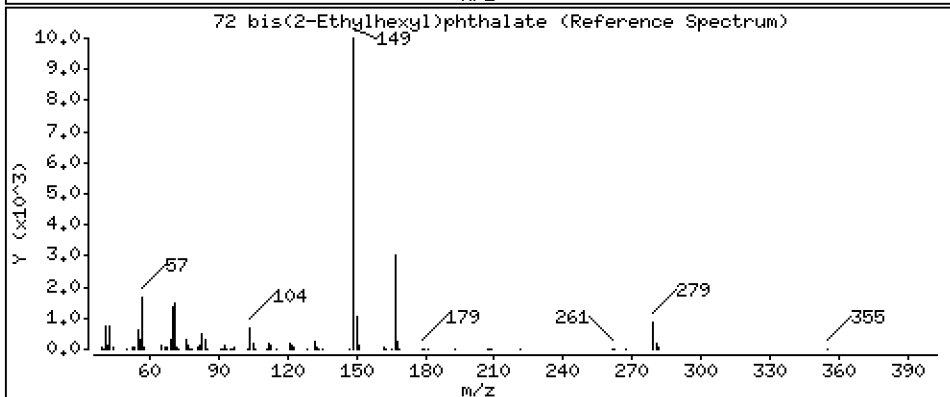
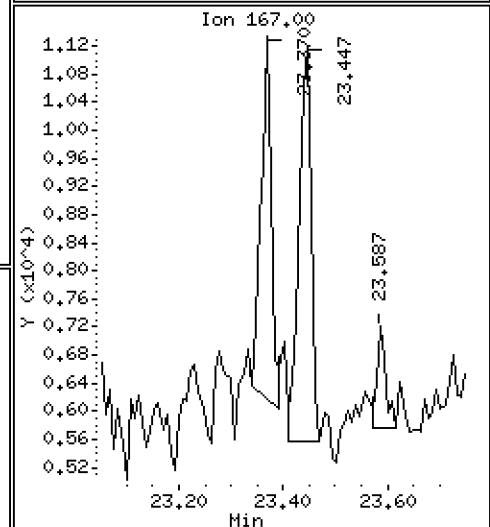
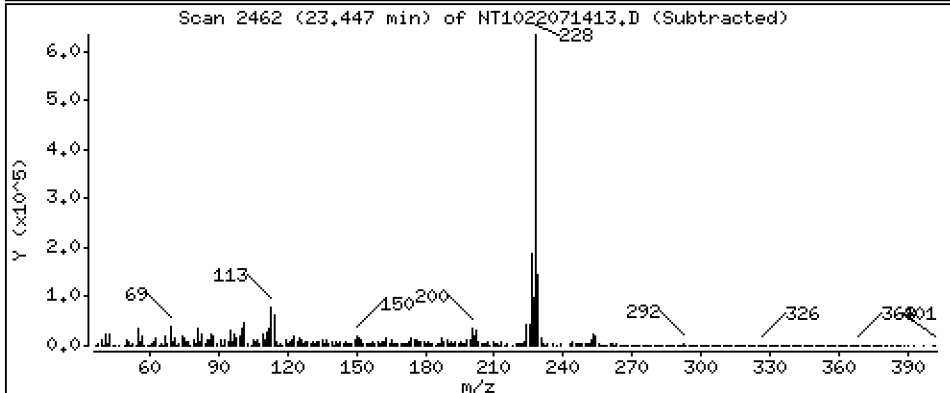
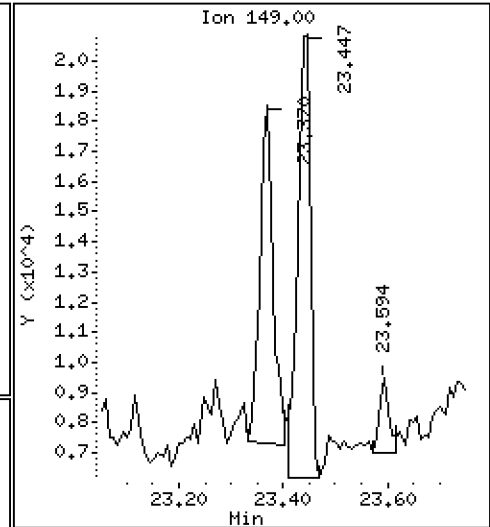
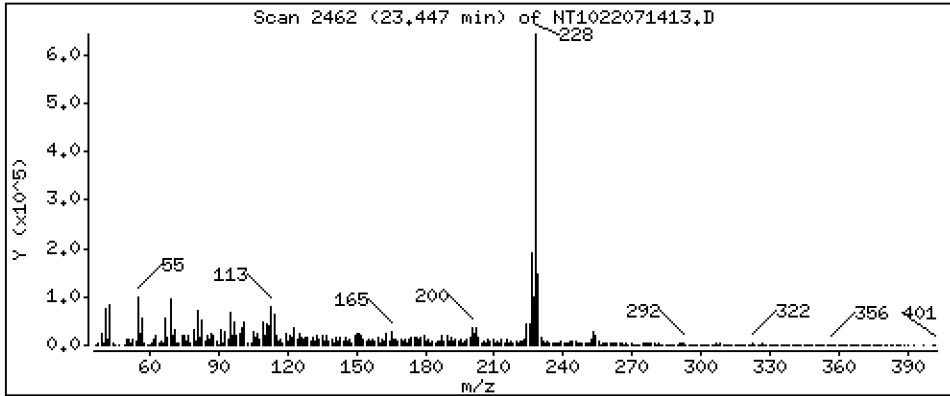
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,323 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

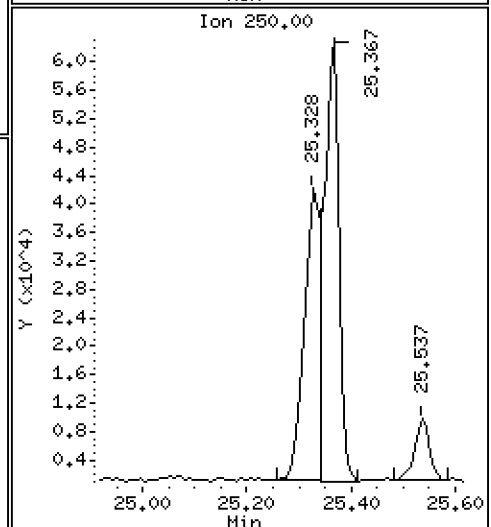
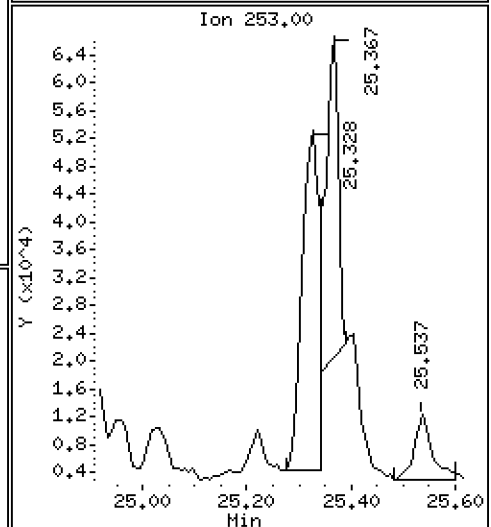
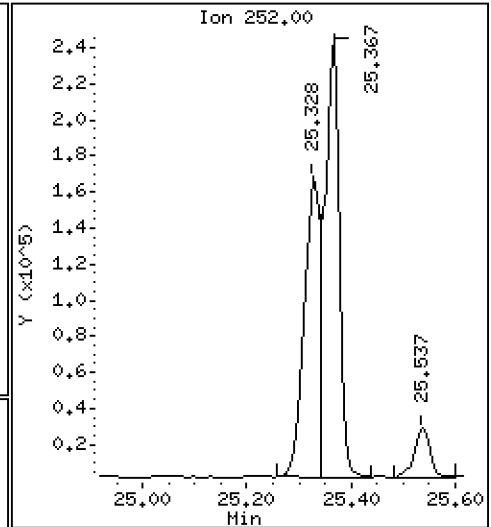
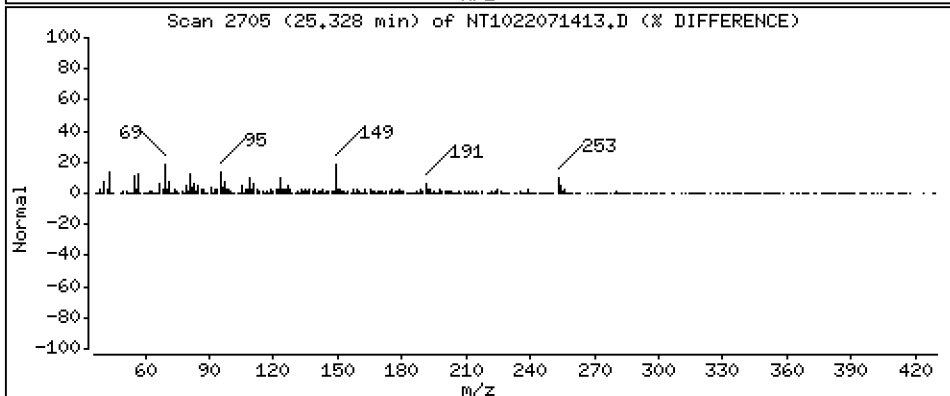
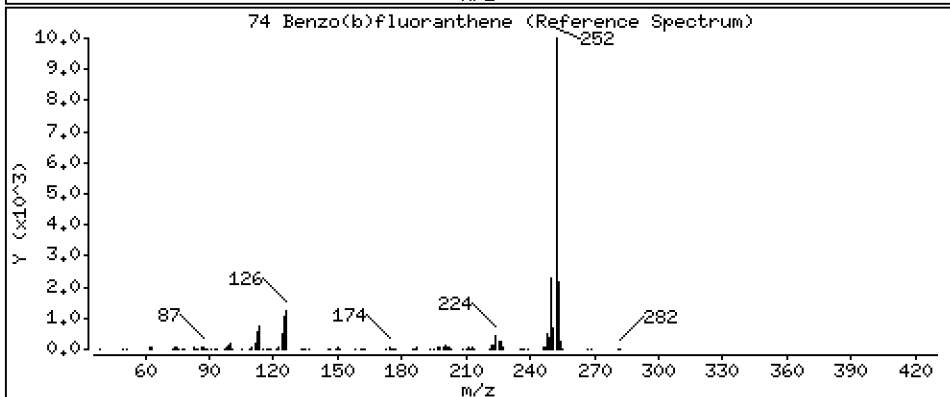
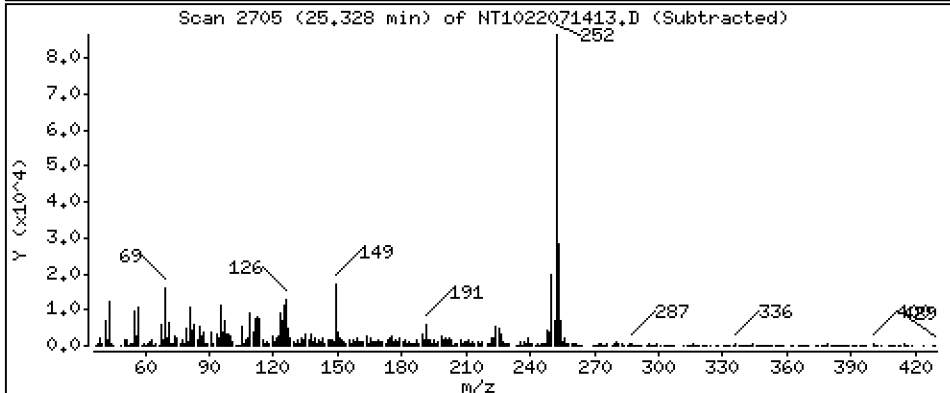
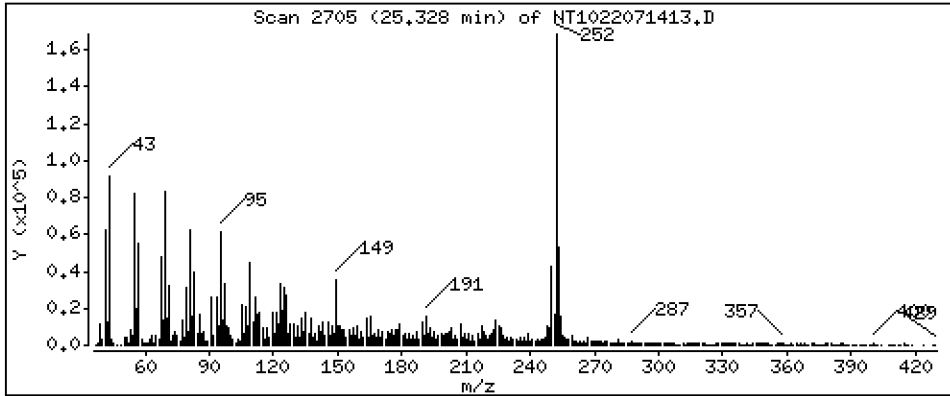
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 52,55 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

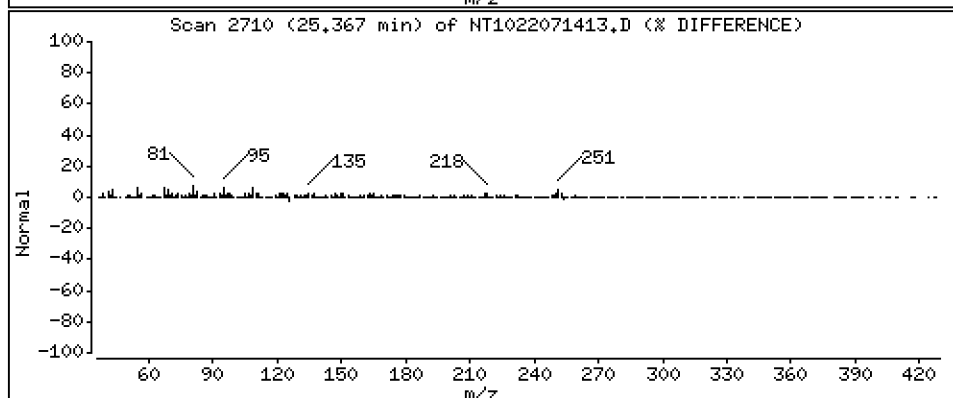
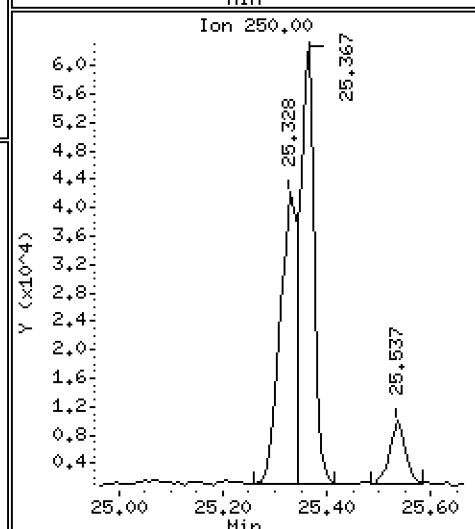
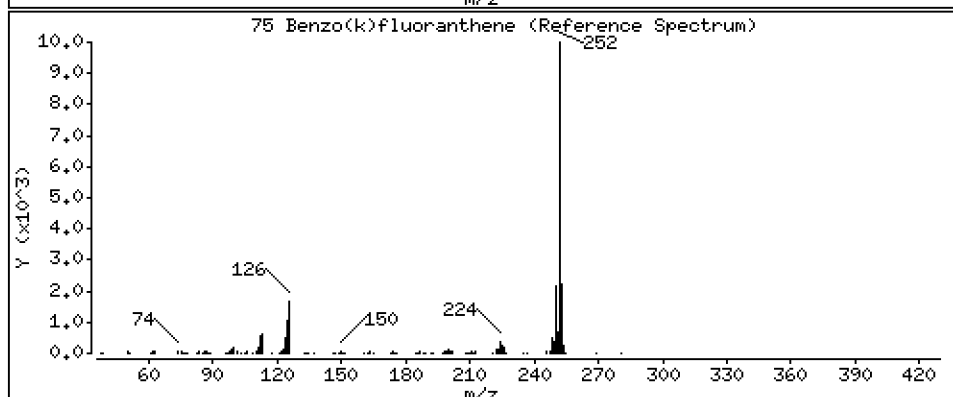
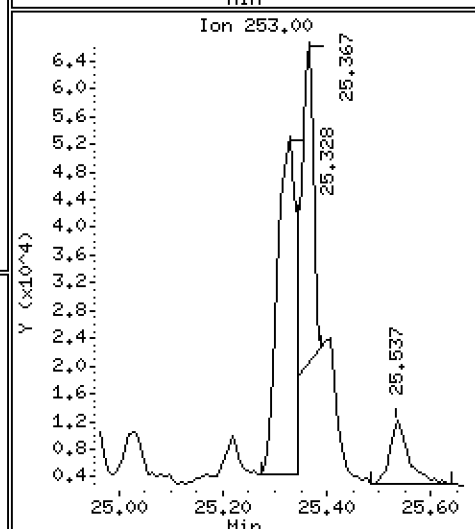
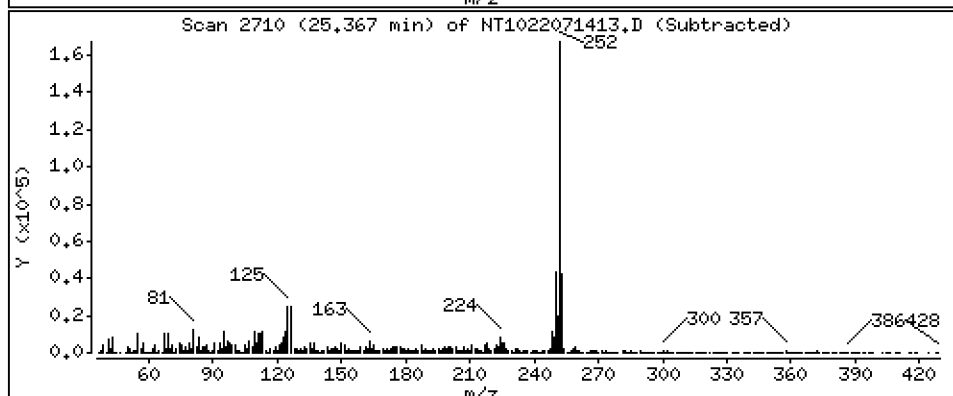
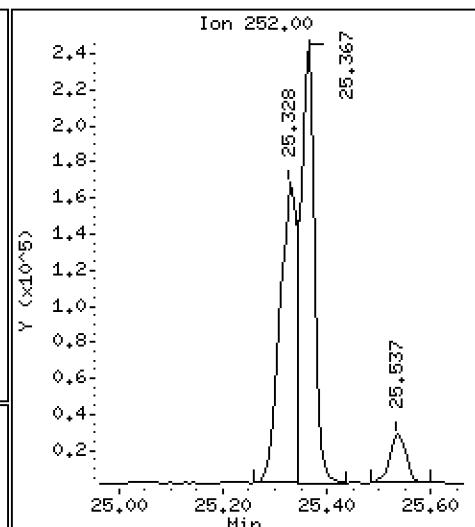
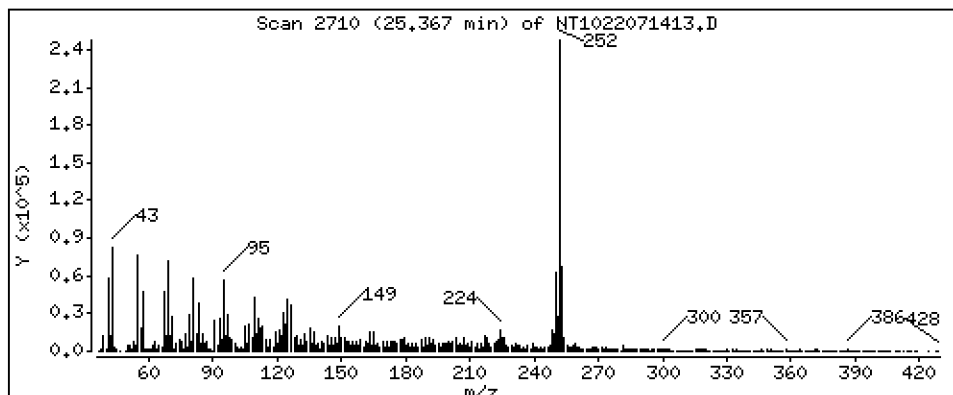
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 68,26 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

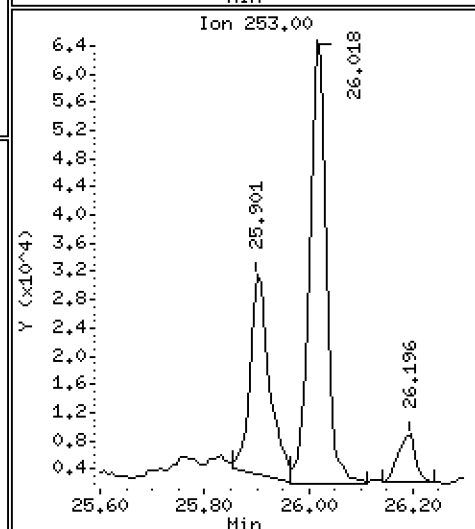
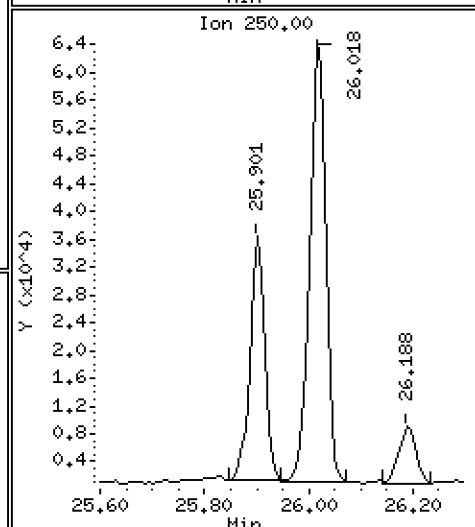
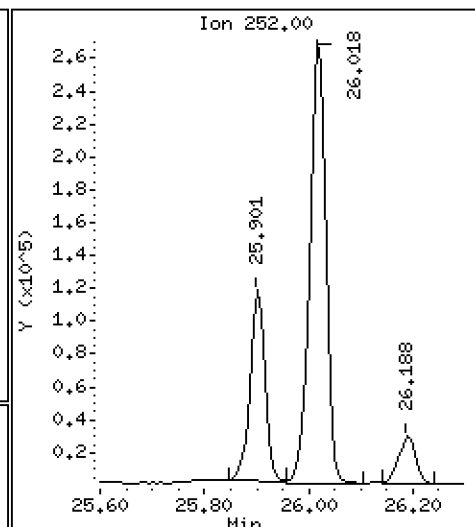
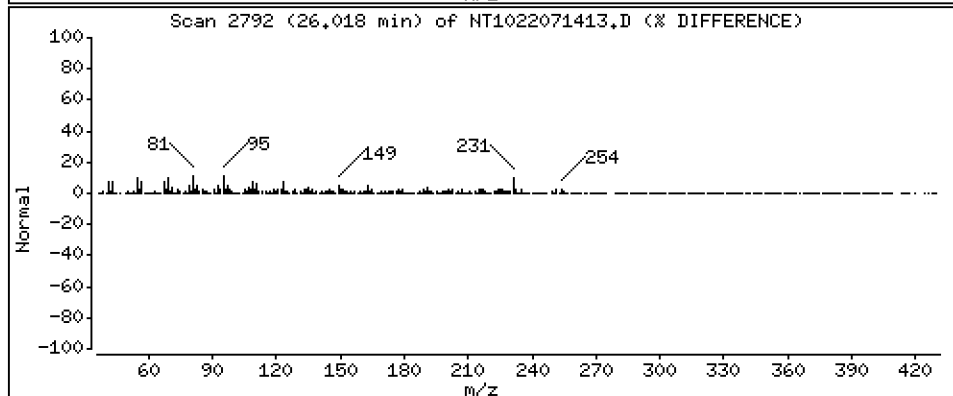
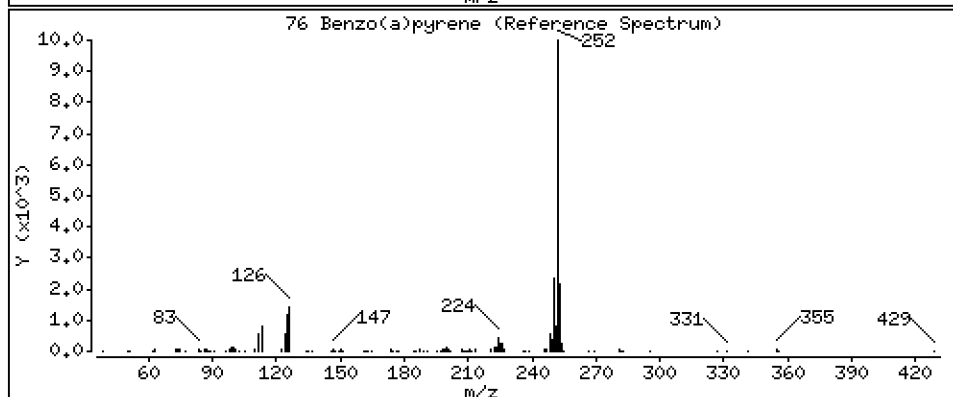
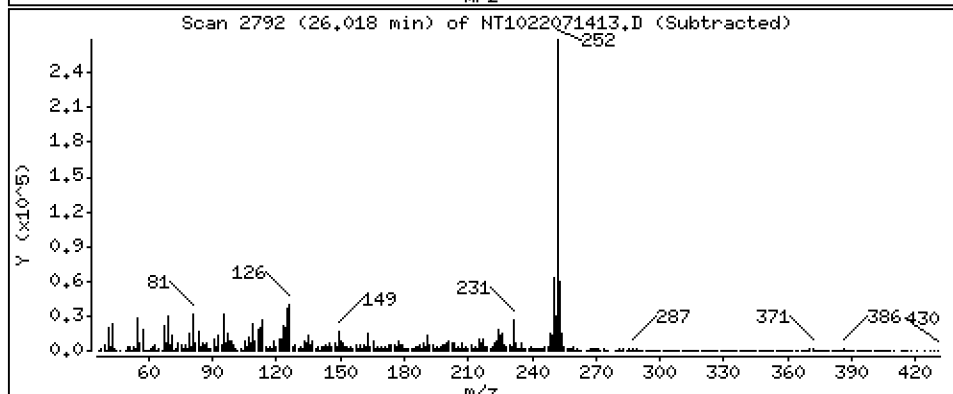
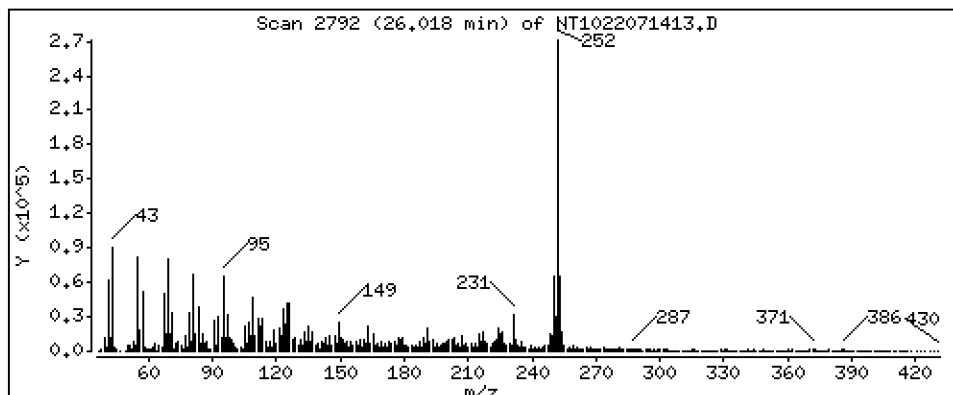
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 93,72 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 2200019-07,3

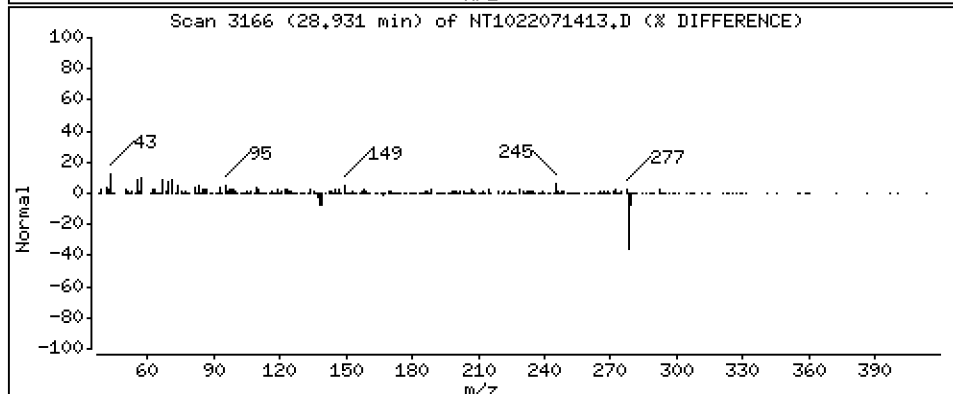
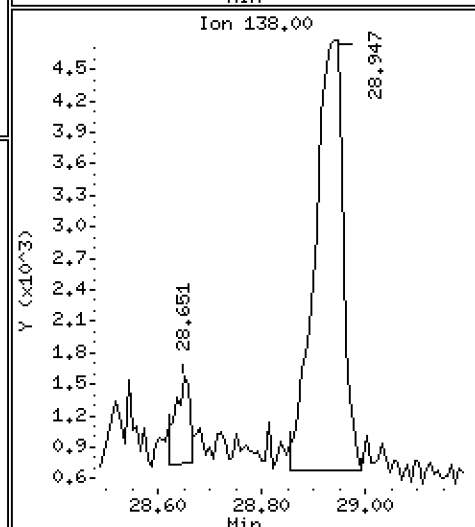
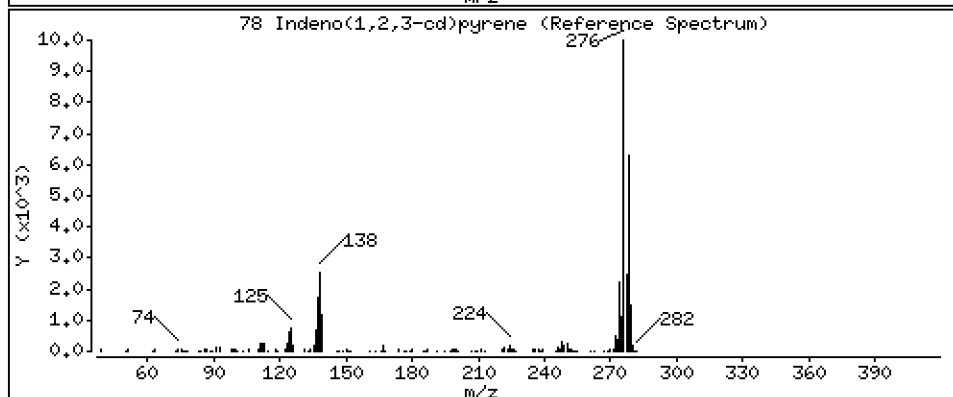
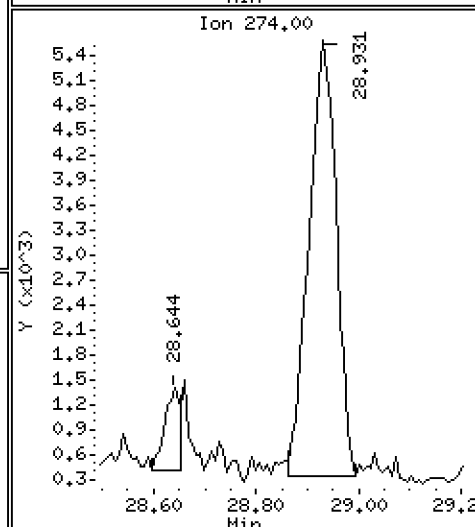
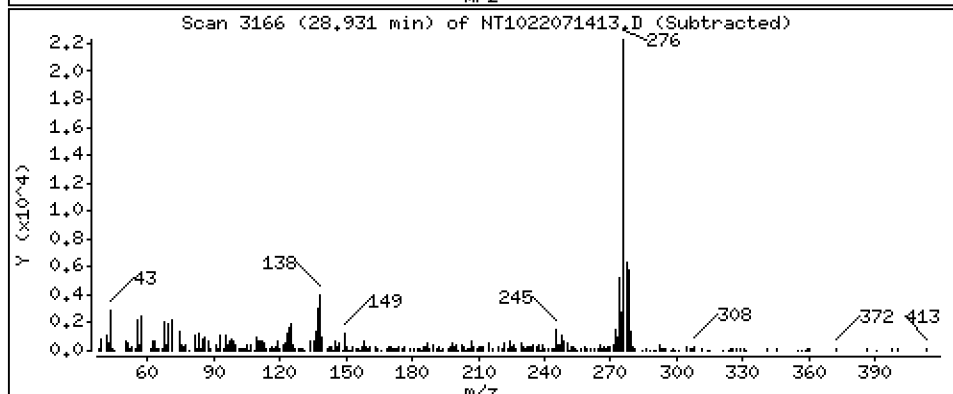
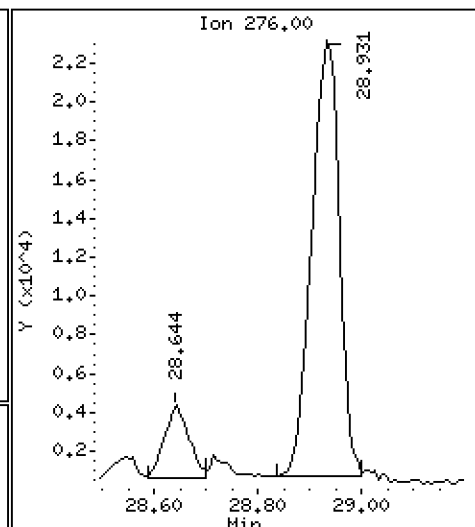
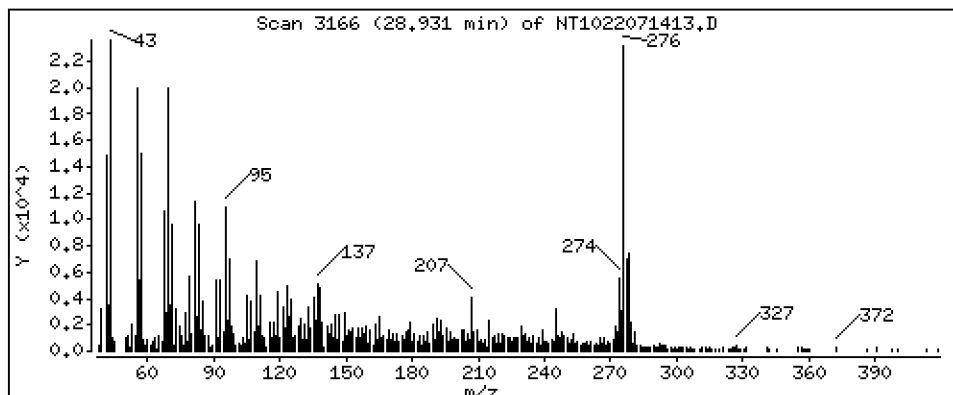
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 12,88 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

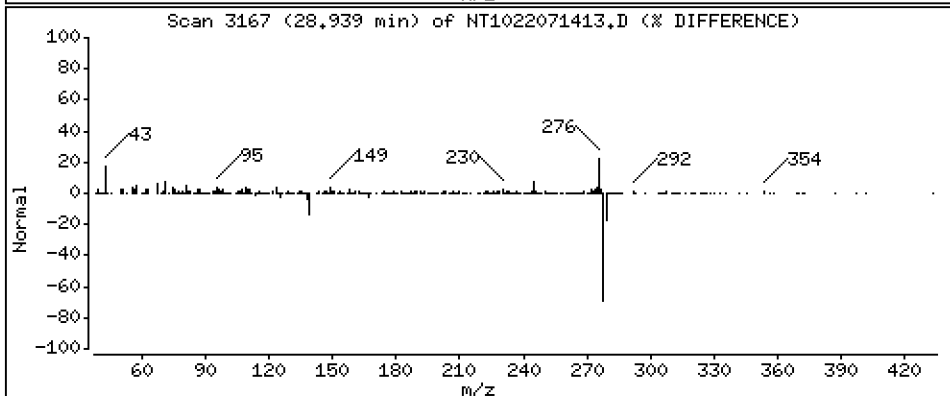
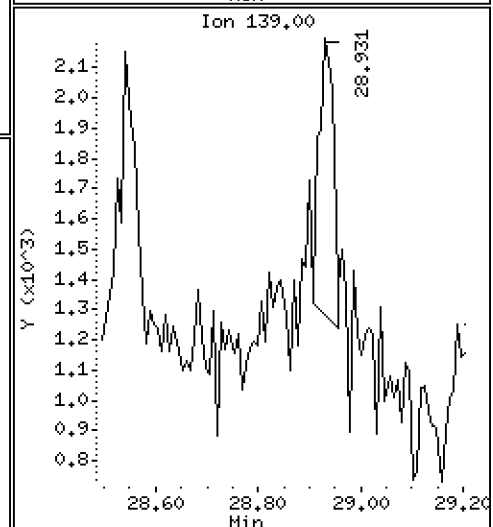
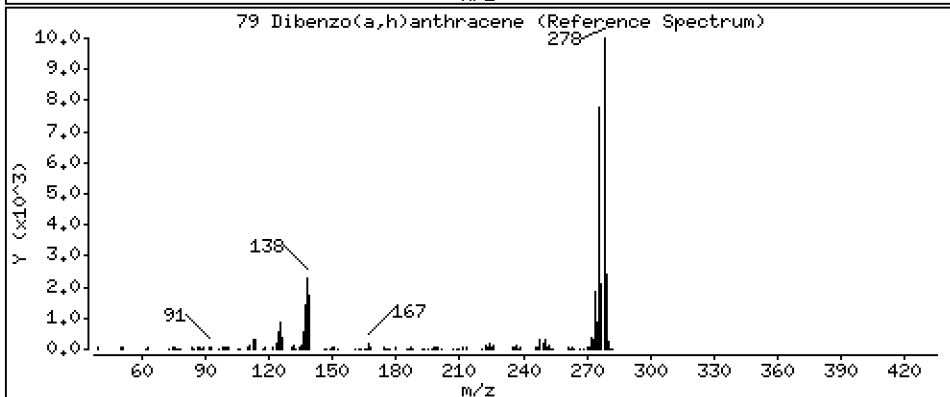
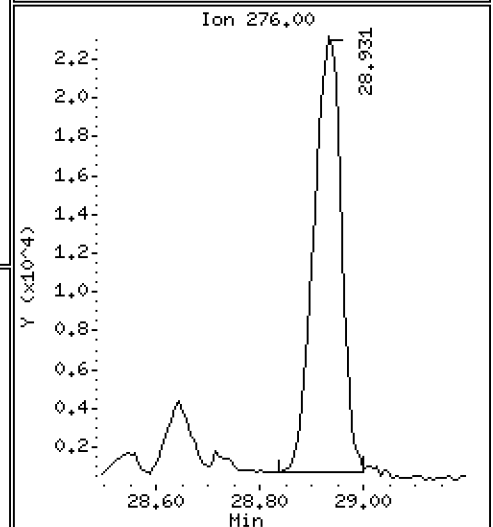
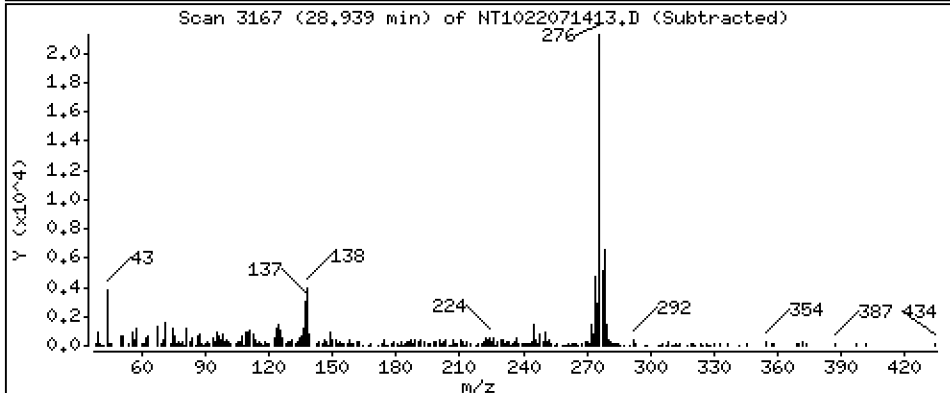
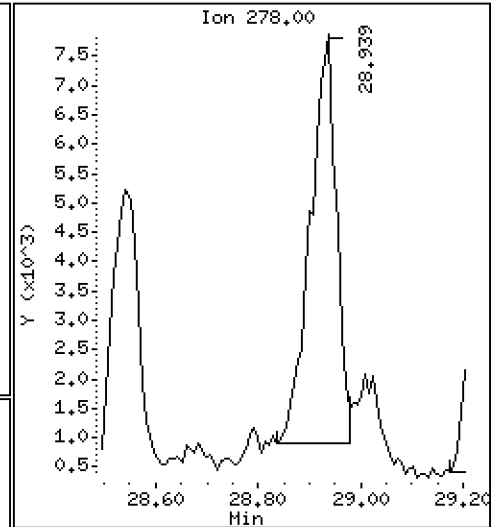
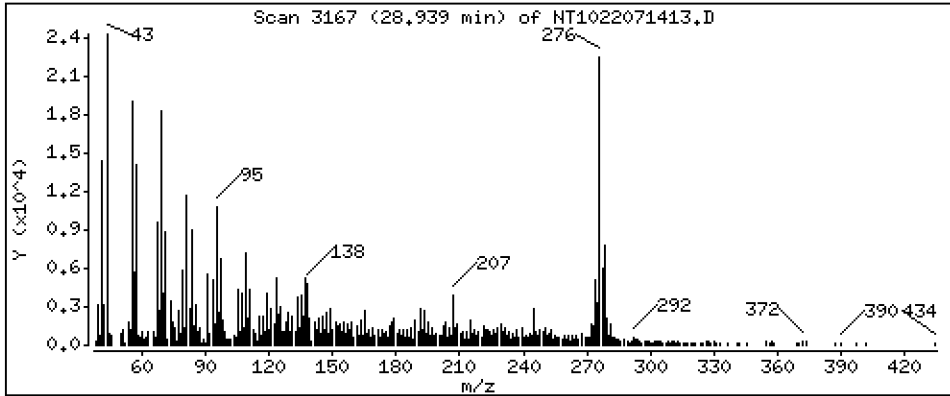
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,980 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

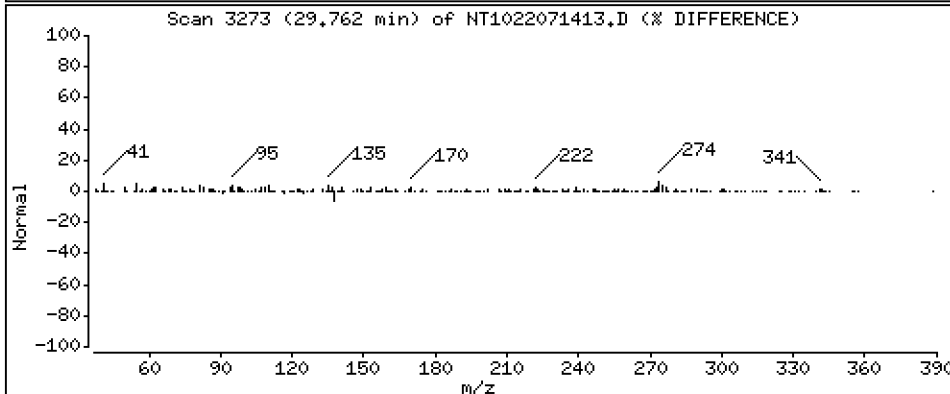
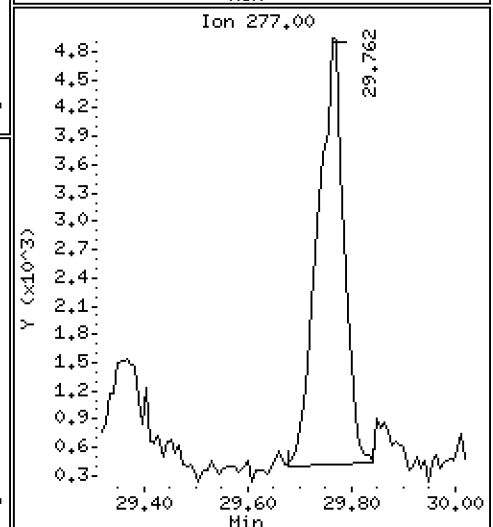
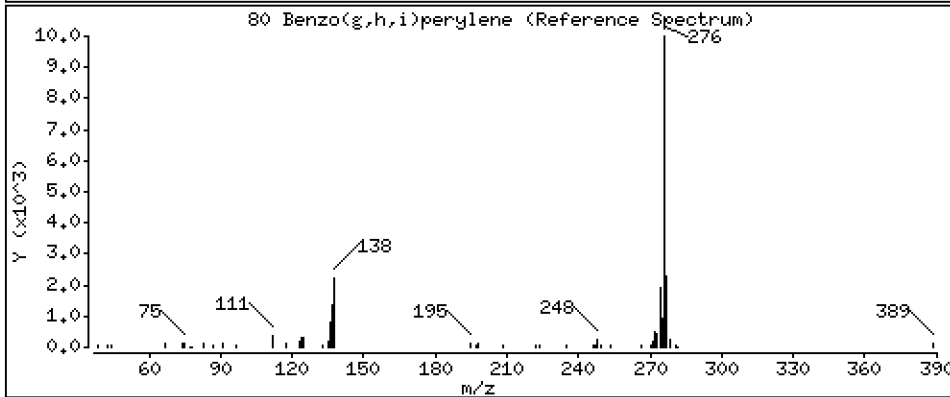
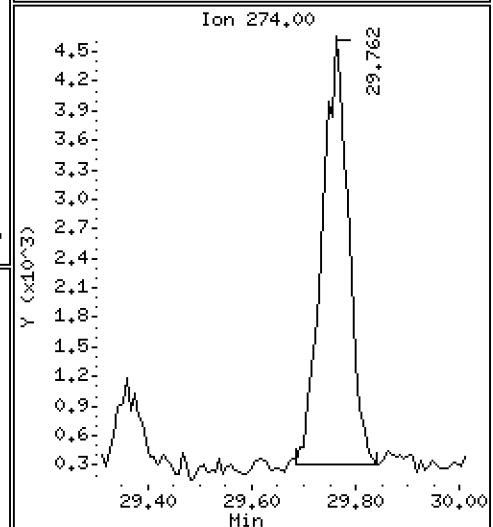
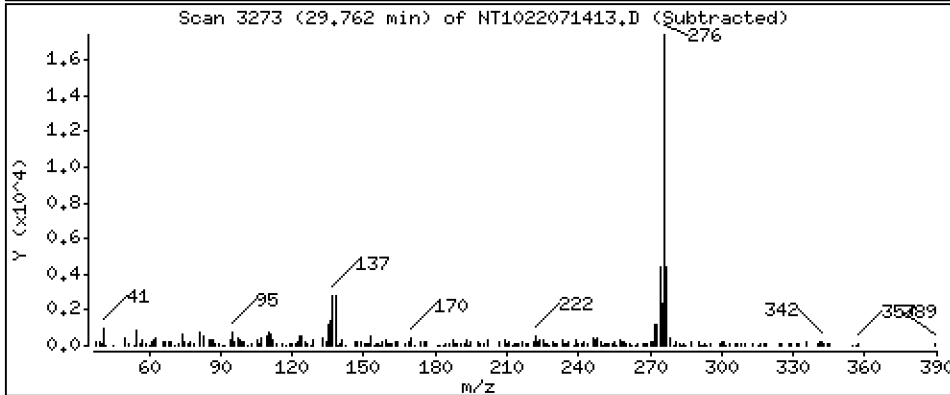
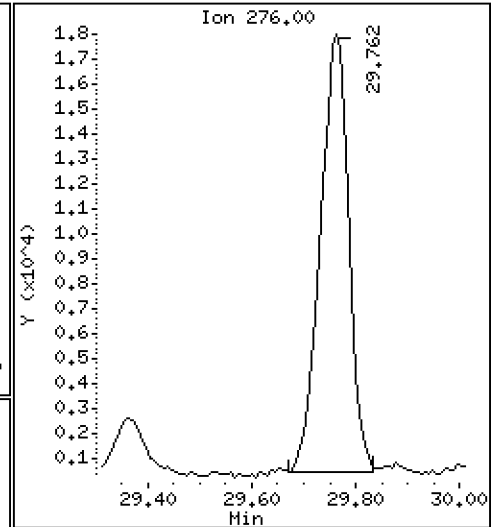
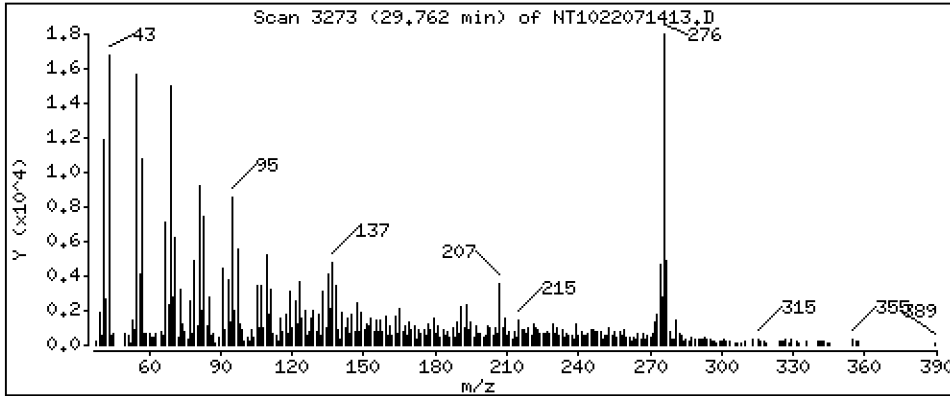
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 13,12 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07,3

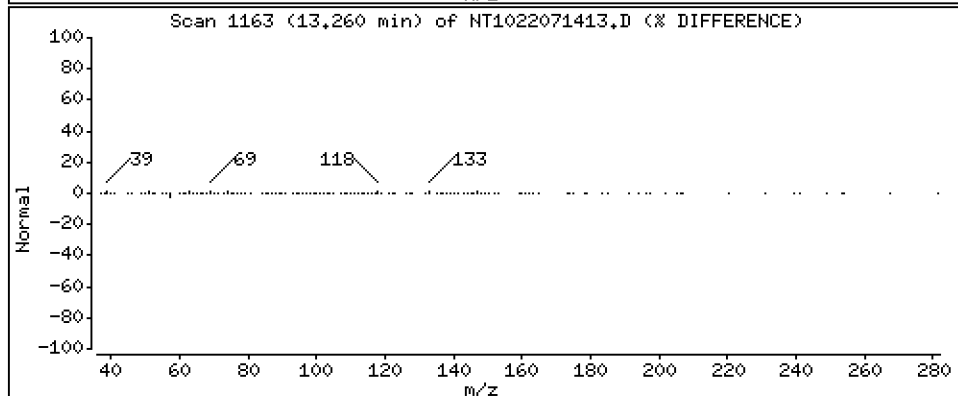
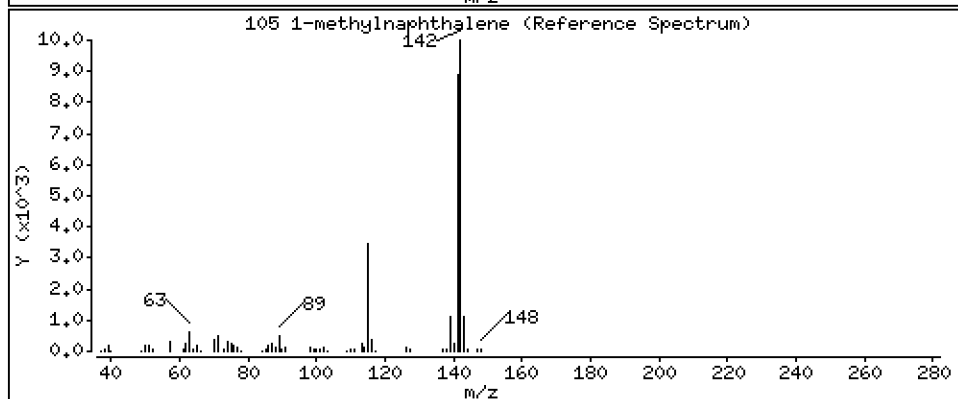
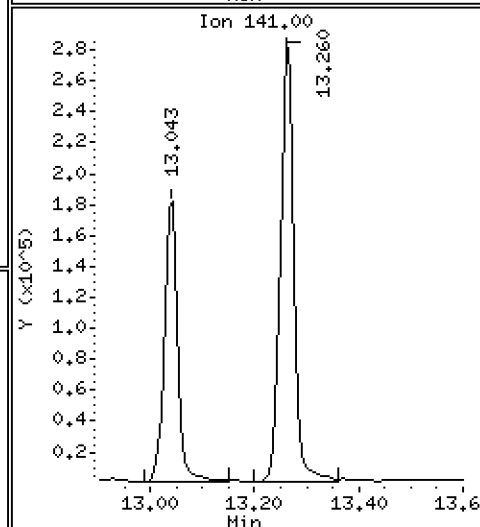
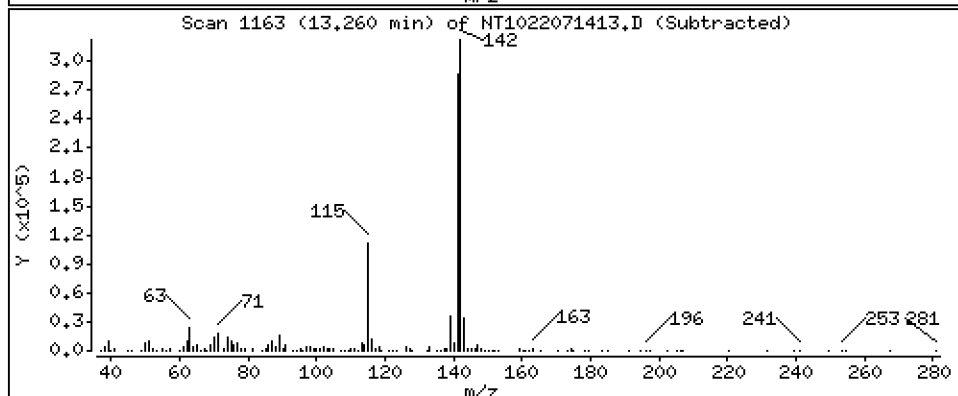
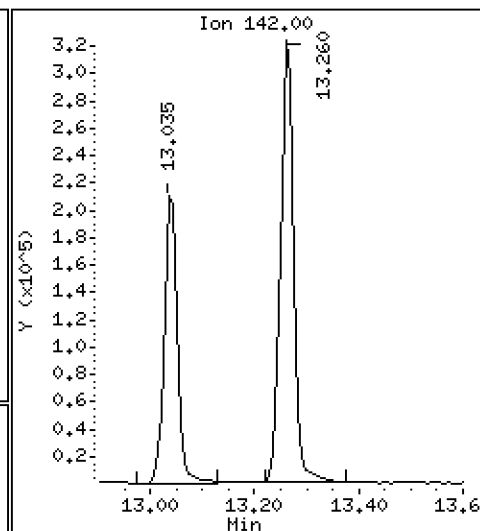
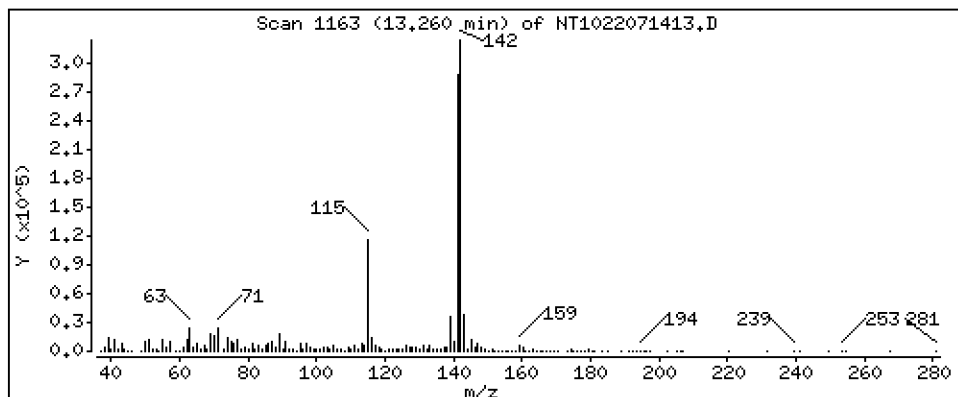
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 7,859 ug/mL



Date : 14-JUL-2022 21:31

Client ID:

Instrument: nt10.i

Sample Info: 2200019-07,3

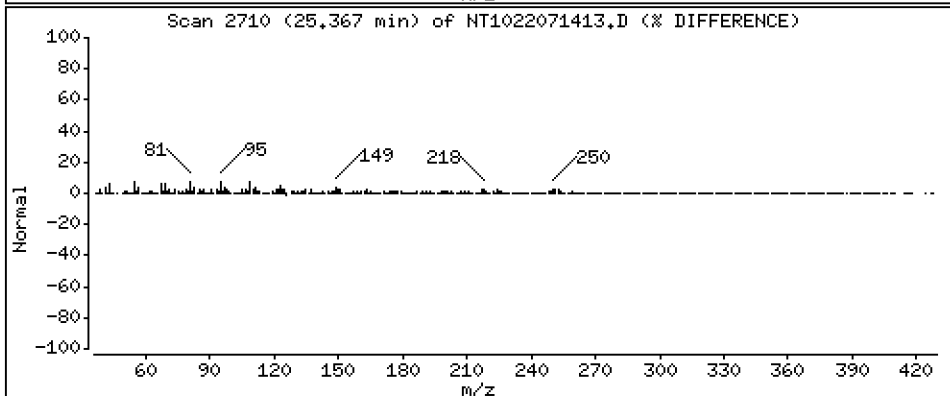
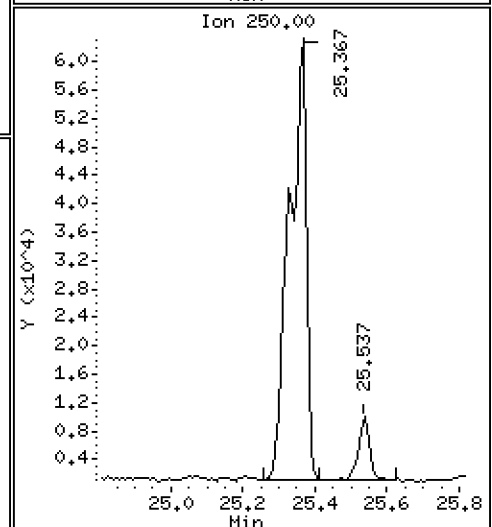
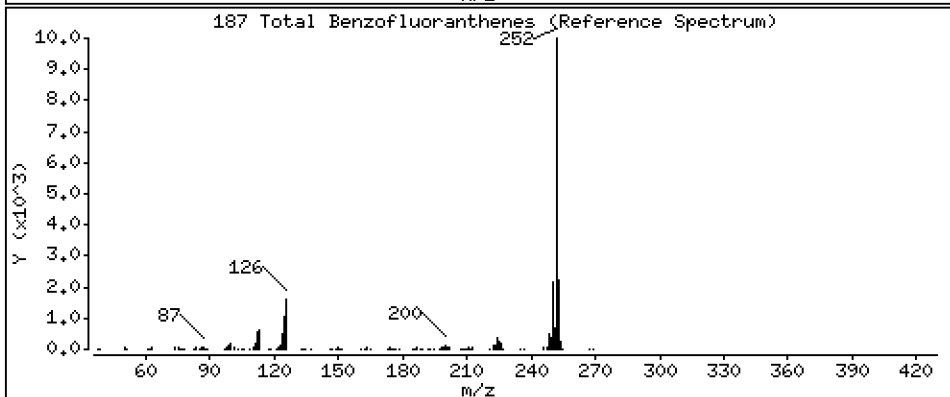
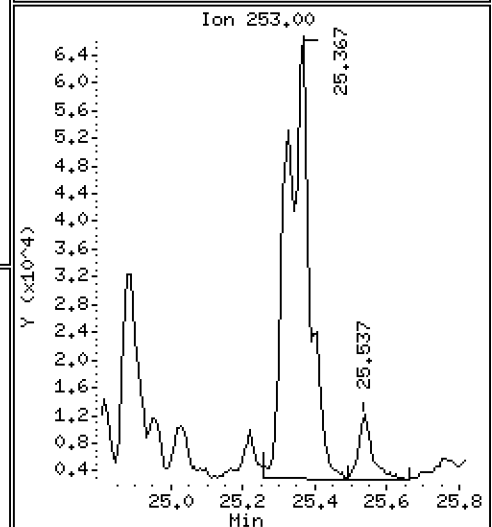
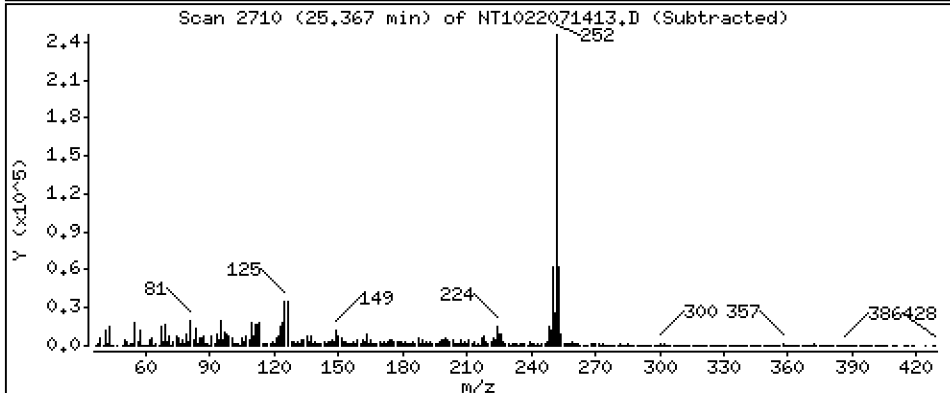
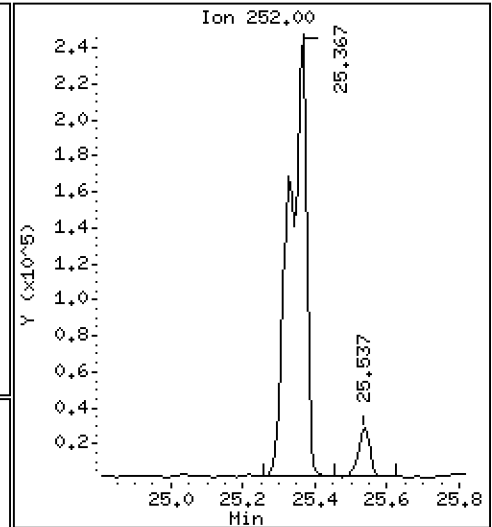
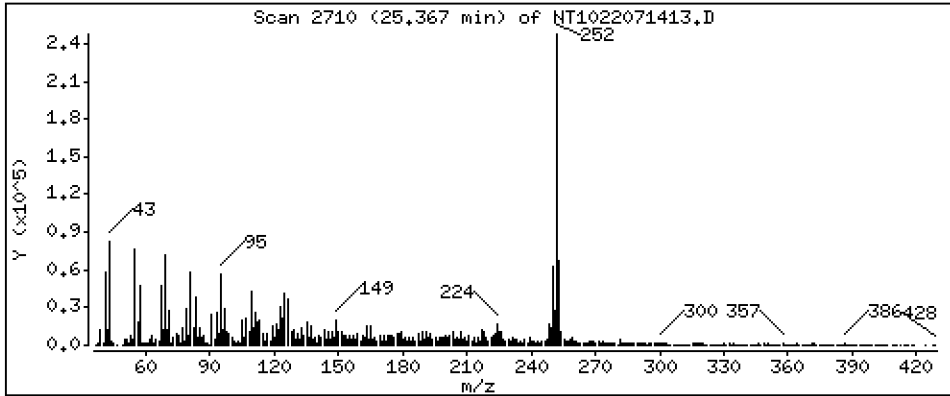
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 117,1 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071413.D
 Lab Smp Id: 22G0019-07
 Inj Date : 14-JUL-2022 21:31
 Operator : VTS
 Smp Info : 22G0019-07,3
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 14-Jul-2022 14:47 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 13
 Dil Factor: 3.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.921	6.906	(0.760)	193827	2.00160	6.005
\$ 2 Phenol-d5	99		8.513	8.490	(0.935)	239252	1.66513	4.995
3 Phenol	94		8.536	8.513	(0.937)	36127	0.28855	0.8656
\$ 5 2-Chlorophenol-d4	132		8.768	8.753	(0.963)	230791	2.33901	7.017
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.101	(1.000)	265193	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.466	9.466	(1.039)	96789	1.59191	4.776
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		9.644	9.613	(1.059)	13151	0.17036	0.5111
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.924	9.885	(1.089)	31320	0.37964	1.139
\$ 18 Nitrobenzene-d5	82		10.203	10.195	(0.880)	159969	1.77523	5.326
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		10.953	10.927	(0.945)	20886	0.29970	0.8991
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.596	11.589	(1.000)	846866	4.00000	
28 Naphthalene	128		11.635	11.627	(1.003)	902679	4.16481	12.49
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		13.035	13.027	(1.124)	379101	1.75992	5.280
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.817	13.809	(0.907)	260842	1.90229	5.707
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152		14.908	14.900	(0.979)	671131	3.78902	11.37
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.225	15.210	(1.000)	303009	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.287	15.279	(1.004)	630085	7.15005	21.45
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.619	15.612	(1.026)	323117	2.30718	6.922
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149		16.184	16.176	(1.063)	7489	0.08216	0.2465
49 Fluorene	166		16.338	16.323	(1.073)	880260	5.26023	15.78
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.886	16.870	(1.109)	18070	1.32091	3.963
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.285	18.269	(1.000)	300609	4.00000	
60 Phenanthrene	178		18.346	18.316	(1.003)	7304945	92.4961	277.5
61 Anthracene	178		18.432	18.416	(1.008)	993839	11.8087	35.43
62 Carbazole	167		18.772	18.757	(1.027)	235227	3.02959	9.089
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.760	20.722	(0.887)	3717657	33.7412	101.2
65 Pyrene	202		21.194	21.147	(0.906)	4706411	22.1562	66.47
\$ 66 Terphenyl-d14	244		21.457	21.434	(0.917)	30238	1.05060	3.152
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.369	23.331	(0.999)	801027	22.9201	68.76
* 69 Chrysene-d12	240		23.393	23.362	(1.000)	82476	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.447	23.408	(1.002)	898201	23.4410	70.32
72 bis(2-Ethylhexyl)phthalate	149		23.447	23.400	(0.959)	27036	1.44114	4.323
* 134 Di-n-octylphthalate-d4	153		24.438	24.407	(1.000)	169727	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.328	25.266	(0.969)	385643	17.5175	52.55
75 Benzo(k)fluoranthene	252		25.367	25.313	(0.971)	481659	22.7531	68.26
76 Benzo(a)pyrene	252		26.017	25.948	(0.996)	562855	31.2388	93.72
* 77 Perylene-d12	264		26.133	26.064	(1.000)	48610	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.931	28.845	(1.107)	82623	4.29482	12.88
79 Dibenzo(a,h)anthracene	278		28.938	28.853	(1.107)	24449	1.66012	4.980
80 Benzo(g,h,i)perylene	276		29.762	29.661	(1.139)	67238	4.37232	13.12
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.259	13.252	(1.143)	554374	2.61955	7.859
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.367	25.313	(0.971)	801417	39.0435	117.1	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071413.D Calibration Time: 14:12
 Lab Smp Id: 22G0019-07
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	265193	35.42
27 Naphthalene-d8	626038	313019	1252076	846866	35.27
42 Acenaphthene-d10	366612	183306	733224	303009	-17.35
59 Phenanthrene-d10	635137	317569	1270274	300609	-52.67 <-
69 Chrysene-d12	270778	135389	541556	82476	-69.54 <-
134 Di-n-octylphthala	507031	253516	1014062	169727	-66.53 <-
77 Perylene-d12	170107	85054	340214	48610	-71.42 <-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.11	0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.07
42 Acenaphthene-d10	15.21	14.71	15.71	15.23	0.10
59 Phenanthrene-d10	18.27	17.77	18.77	18.29	0.08
69 Chrysene-d12	23.36	22.86	23.86	23.39	0.13
134 Di-n-octylphthala	24.41	23.91	24.91	24.44	0.13
77 Perylene-d12	26.06	25.56	26.56	26.13	0.27

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

REVIEW SUMMARY FOR FILE - NT1022071413.D

Lab ID: 22G0019-07
nt10.i, ABN.m, 14-JUL-2022 21:31

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022071402.D

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

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



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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-07RE1 A

SDG: 22G0019

Sampled: 06/28/22 12:10

Prepared: 07/07/22 10:01

File ID: NT1022071514.D

% Solids: 47.97

Preparation: EPA 3546 (Microwave)

Analyzed: 07/15/22 20:39

Batch: BKG0069

Sequence: SKG0154

Initial/Final: 20.87 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	10	1160	D	42.4	200
91-57-6	2-Methylnaphthalene	10	530	D	45.0	200
83-32-9	Acenaphthene	10	1870	D	52.1	200
87-86-5	Pentachlorophenol	10	312	U	312	999
85-01-8	Phenanthrene	10	17400	D	87.1	200
206-44-0	Fluoranthene	10	16300	Q, D	60.8	200
56-55-3	Benzo(a)anthracene	10	5130	D	59.5	200
218-01-9	Chrysene	10	7070	Q, D	60.5	200
205-99-2	Benzo(b)fluoranthene	10	3220	D	70.1	200
207-08-9	Benzo(k)fluoranthene	10	3570	D	50.0	200
50-32-8	Benzo(a)pyrene	10	5170	D	42.3	200
193-39-5	Indeno(1,2,3-cd)pyrene	10	2480	D	146	200
53-70-3	Dibenzo(a,h)anthracene	10	970	D	172	200
90-12-0	1-Methylnaphthalene	10	831	D	52.5	200

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.15	588	78.5	27 - 120	
Phenol-d5	749.15	502	67.0	29 - 120	
2-Chlorophenol-d4	749.15	687	91.7	31 - 120	
1,2-Dichlorobenzene-d4	499.43	438	87.6	32 - 120	
Nitrobenzene-d5	499.43	436	87.3	30 - 120	
2-Fluorobiphenyl	499.43	569	114	35 - 120	
2,4,6-Tribromophenol	749.15	546	72.9	24 - 134	
p-Terphenyl-d14	499.43	642	128	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220715.6\NT1022071514.D

Date: 15-JUL-2022 20:39

Client ID:

Sample Info: 22C0019-07REL.10

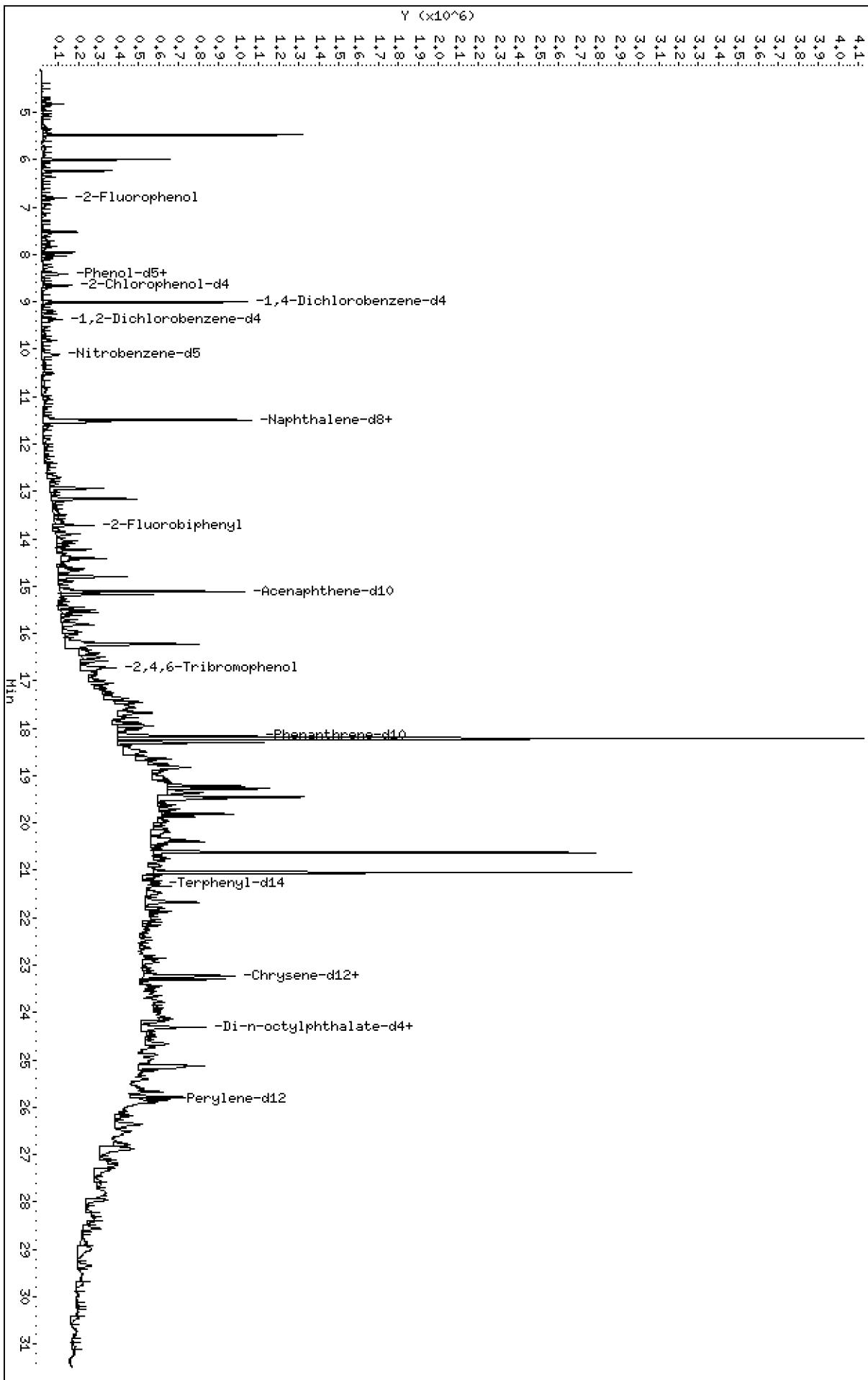
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20220715.6\NT1022071514.D



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

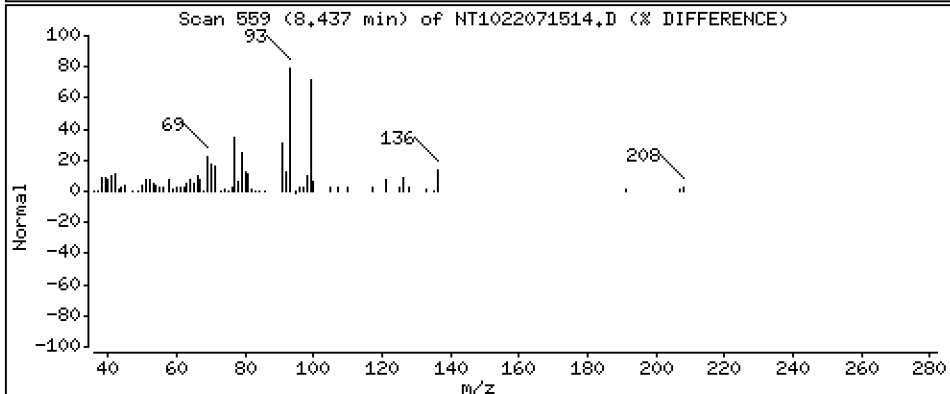
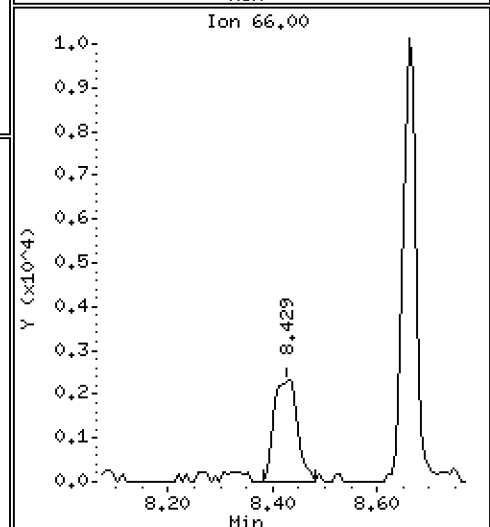
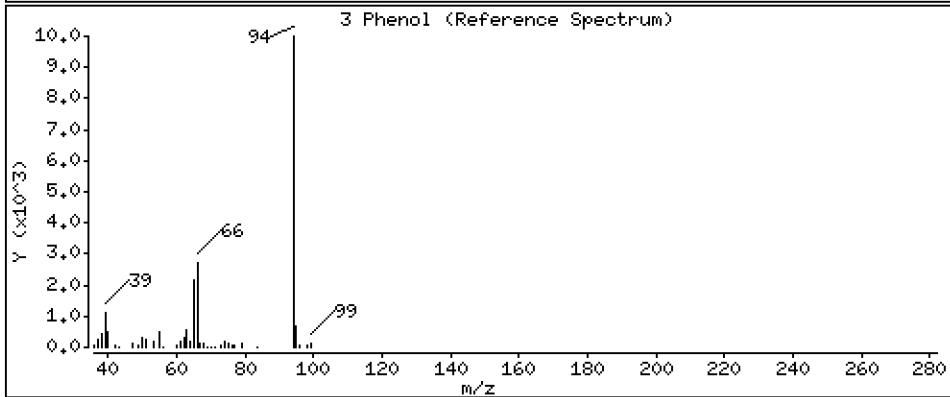
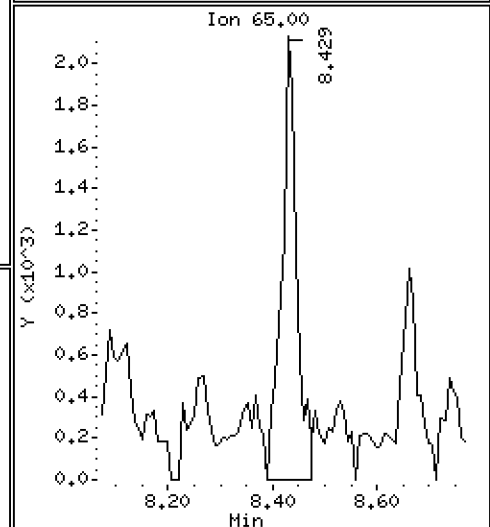
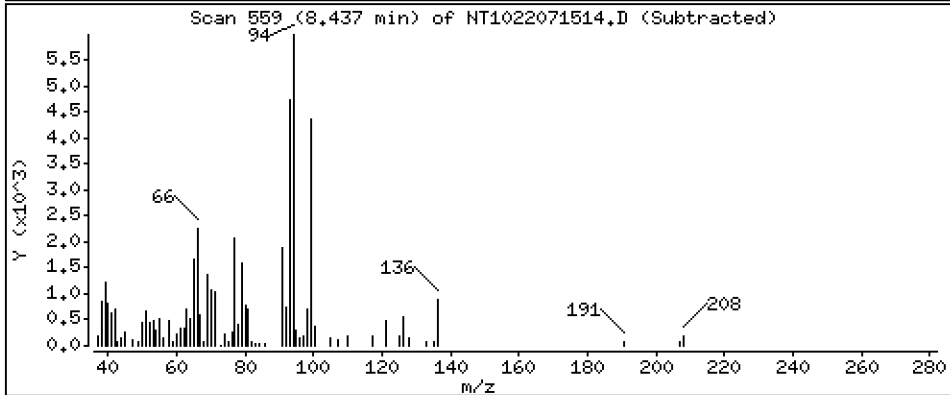
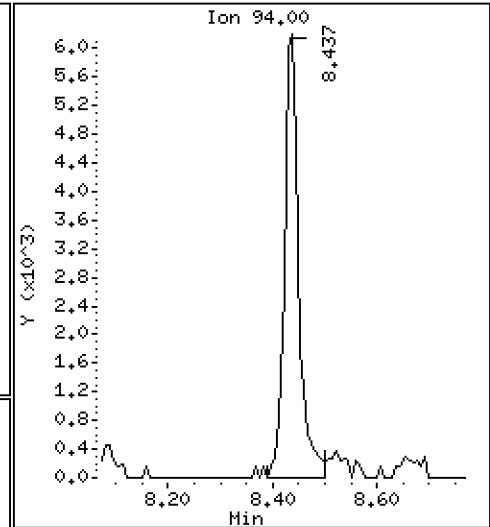
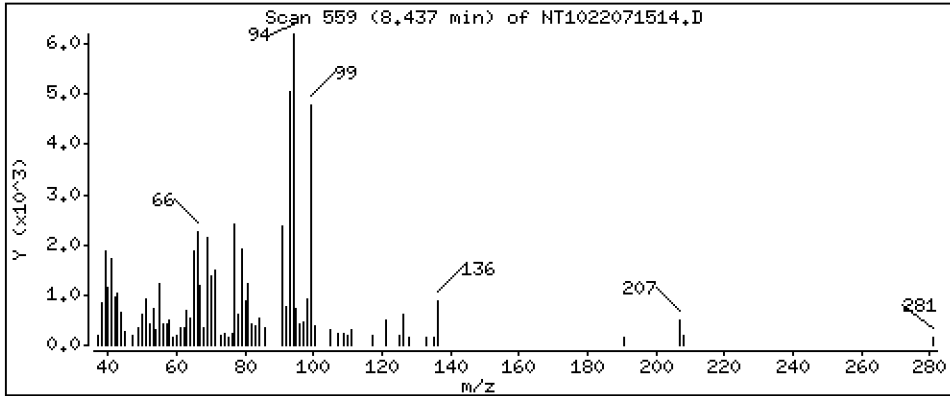
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,8861 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

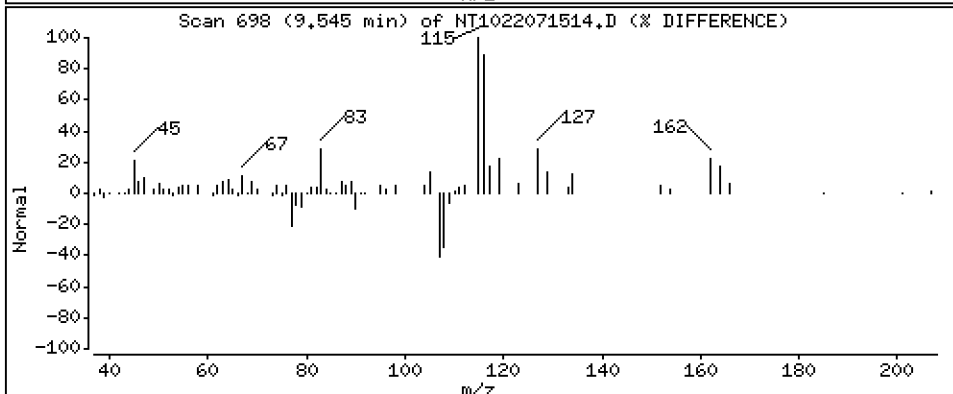
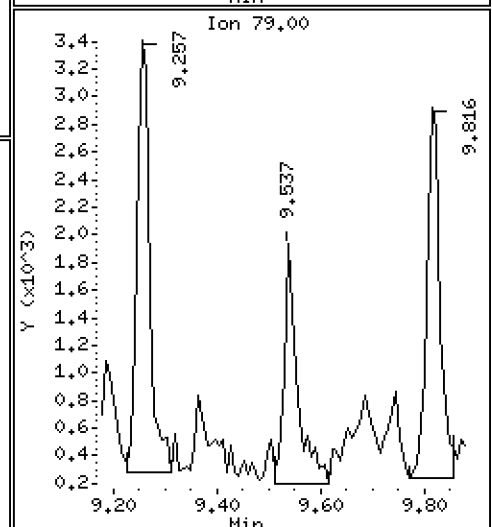
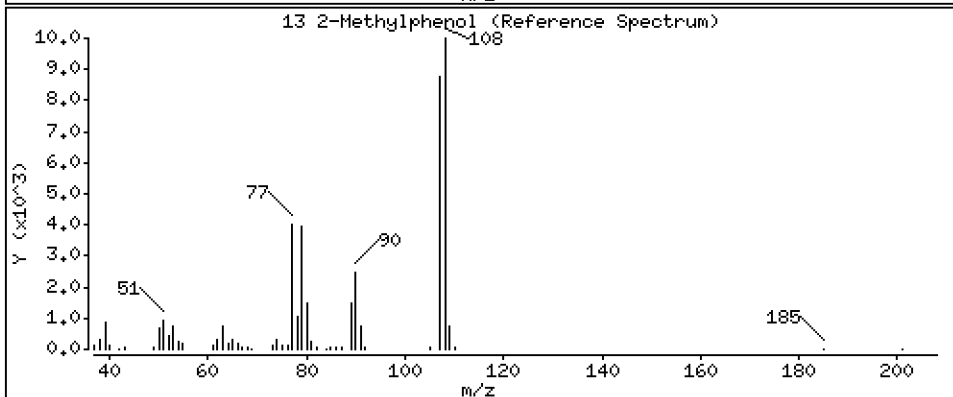
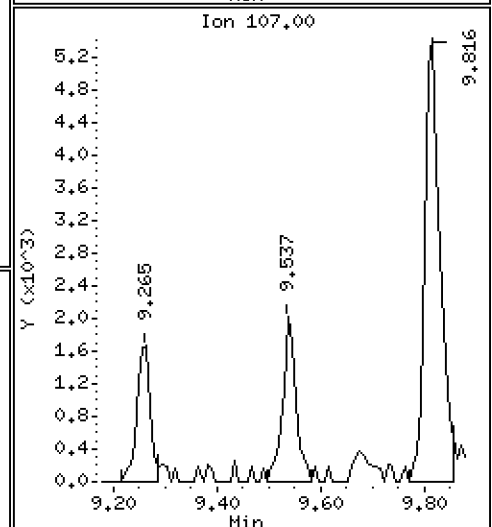
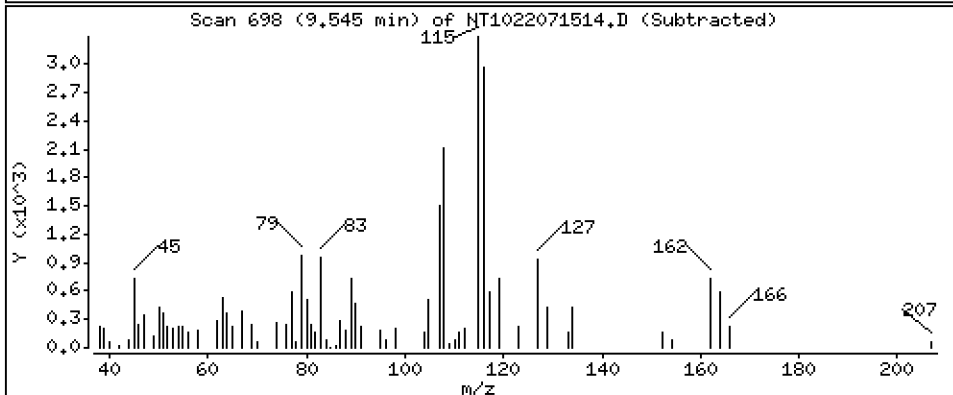
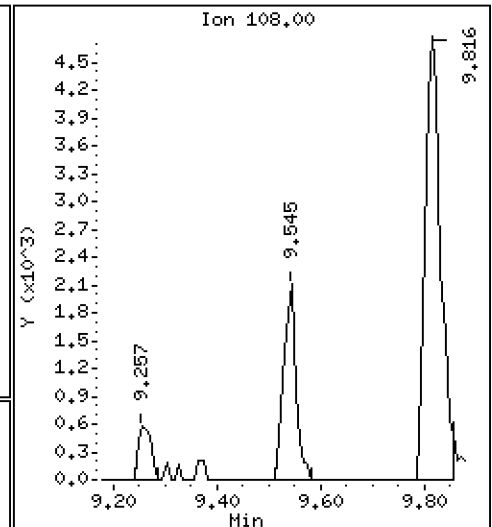
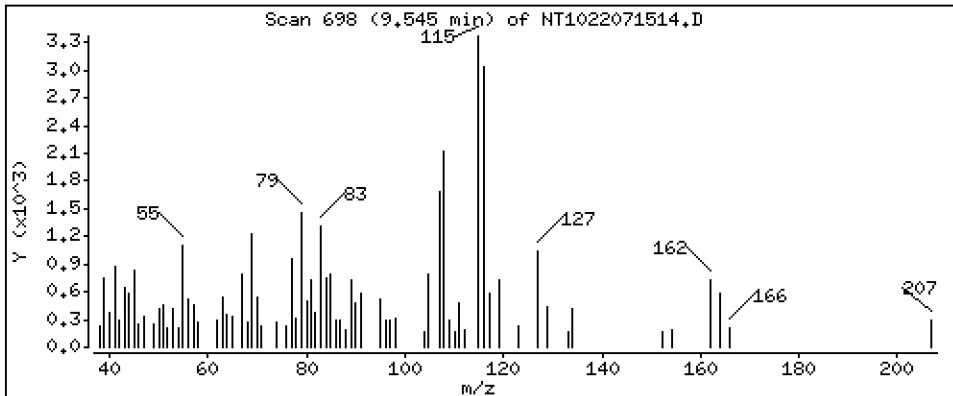
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,4184 ug/mL

13 2-Methylphenol



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

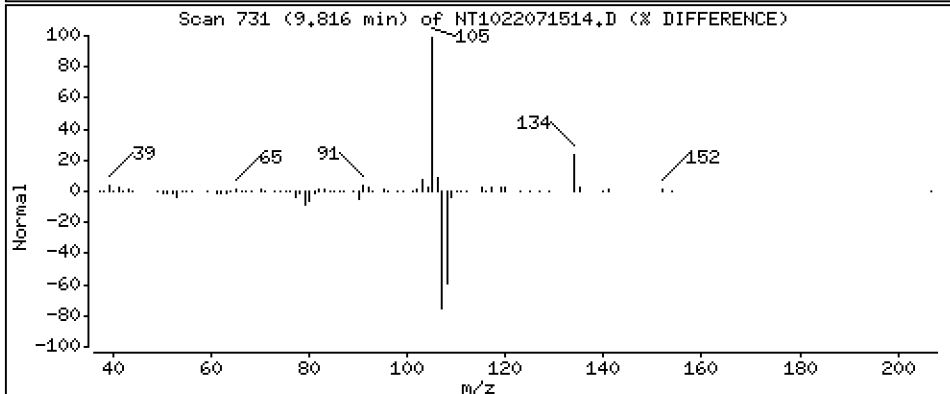
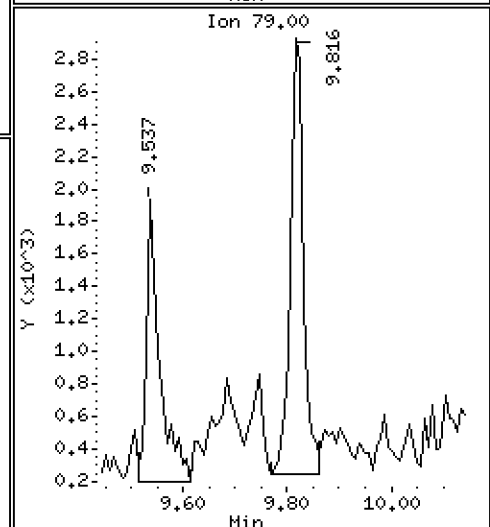
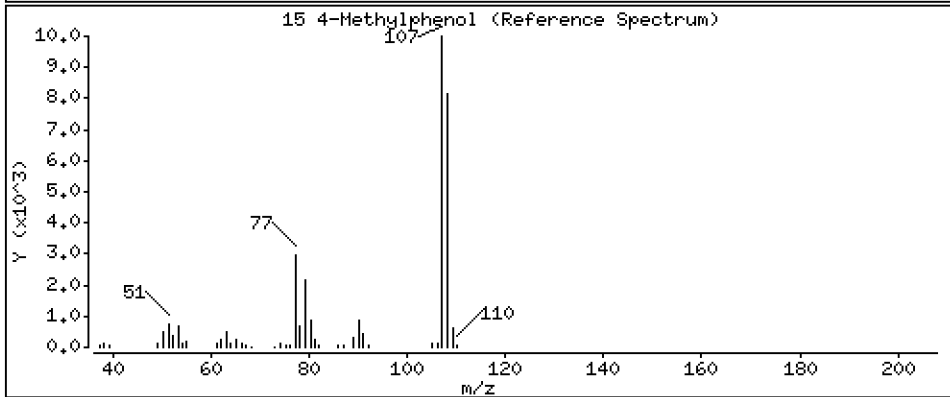
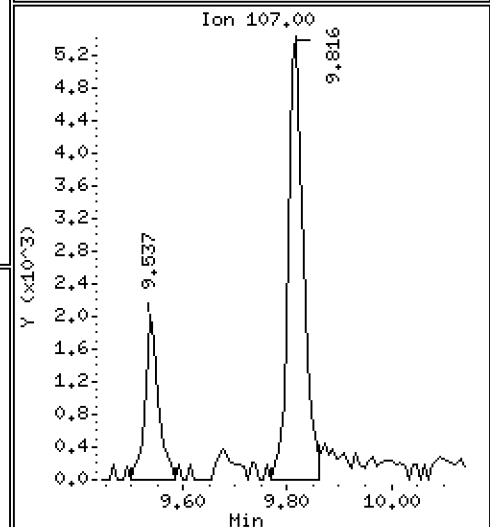
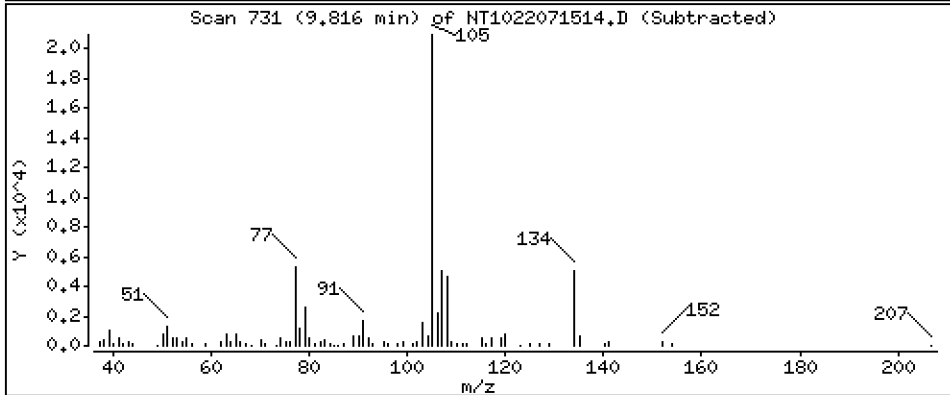
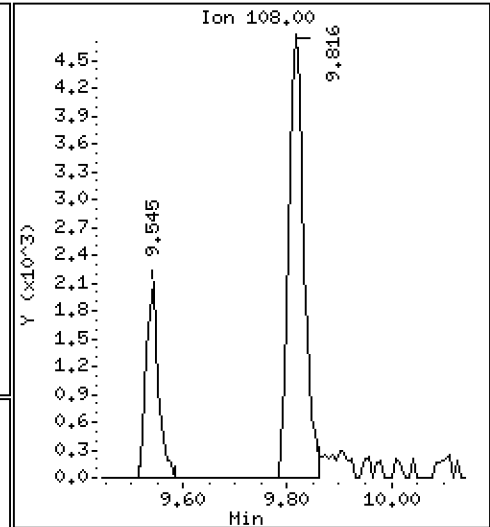
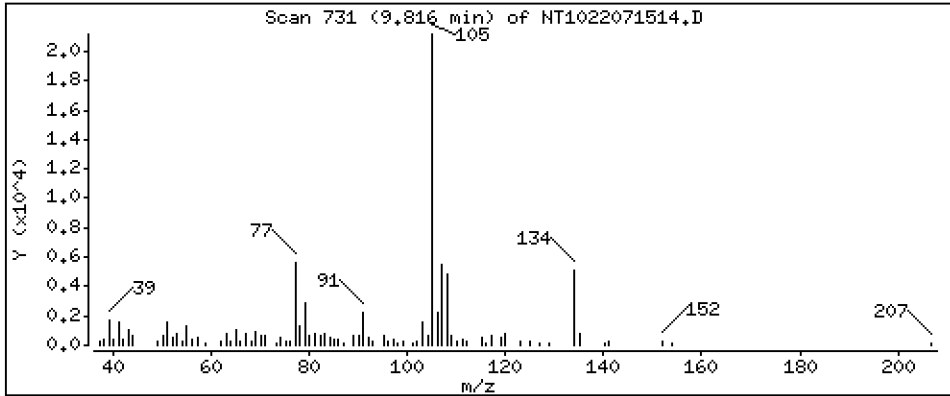
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 1.151 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

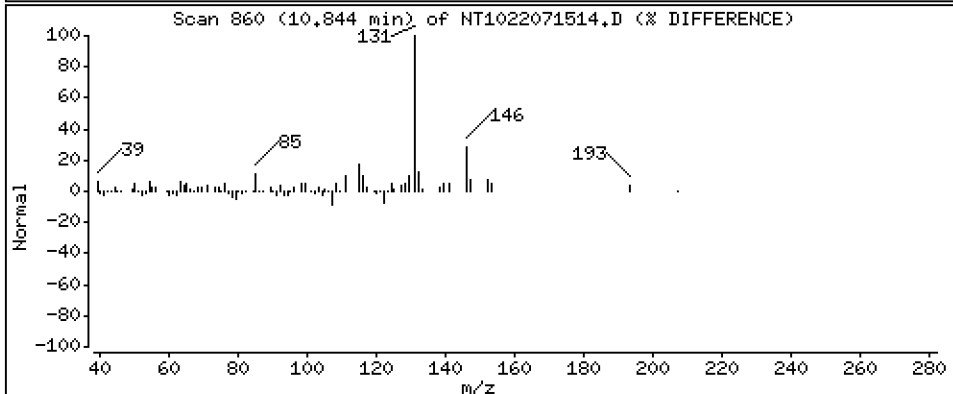
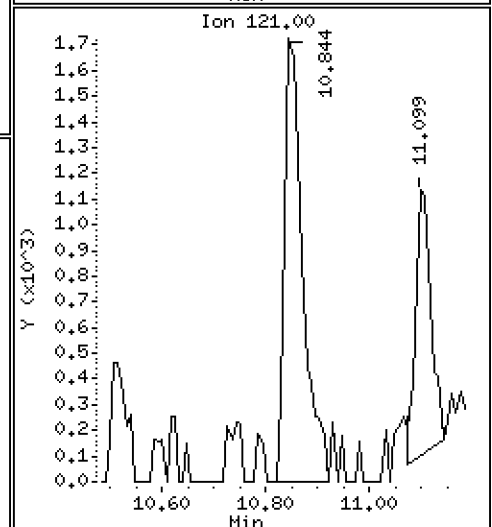
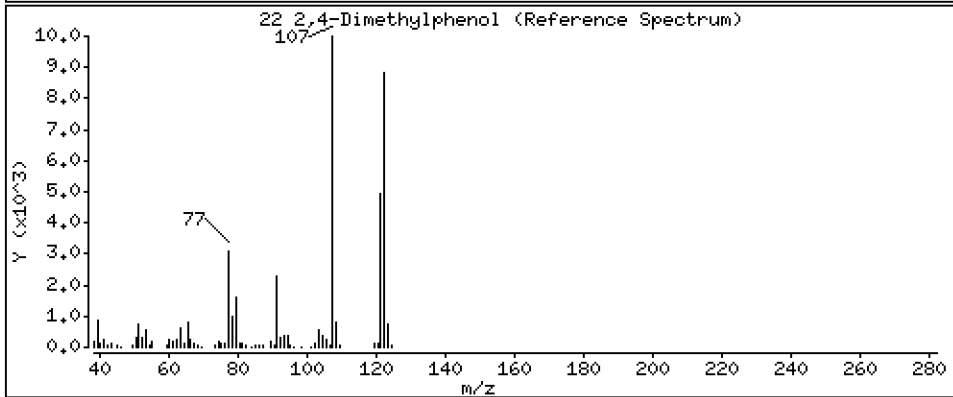
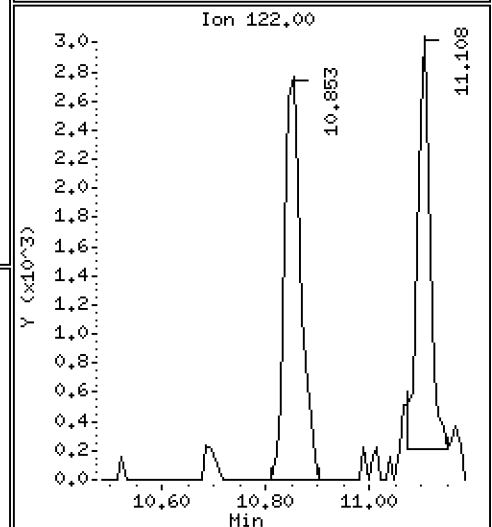
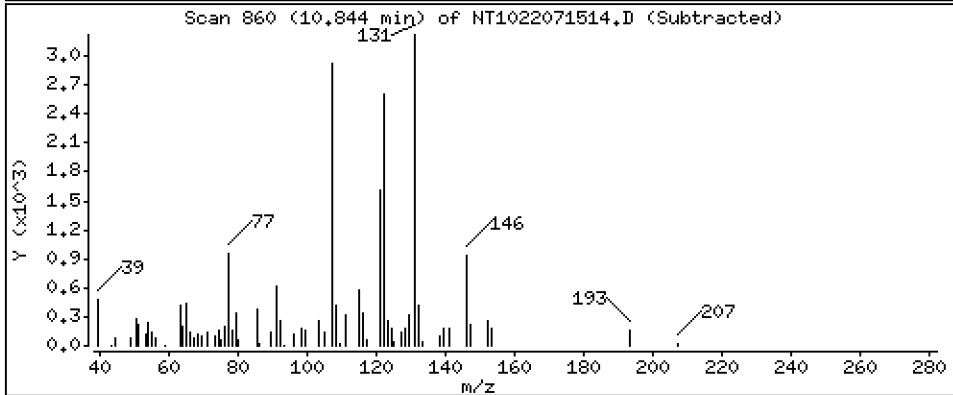
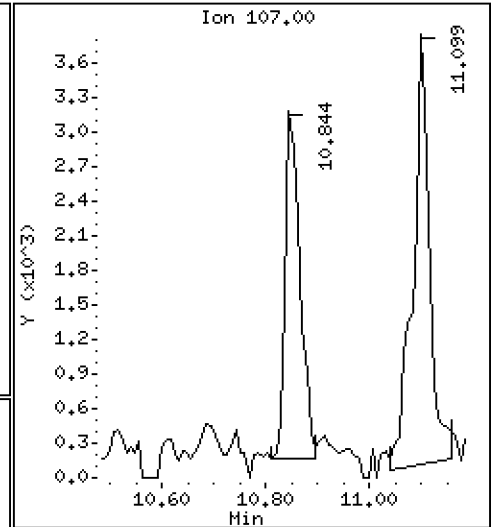
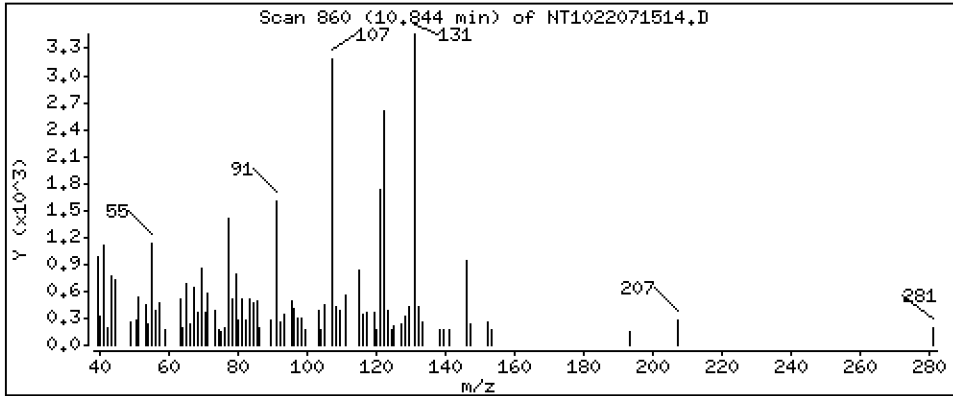
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,8098 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

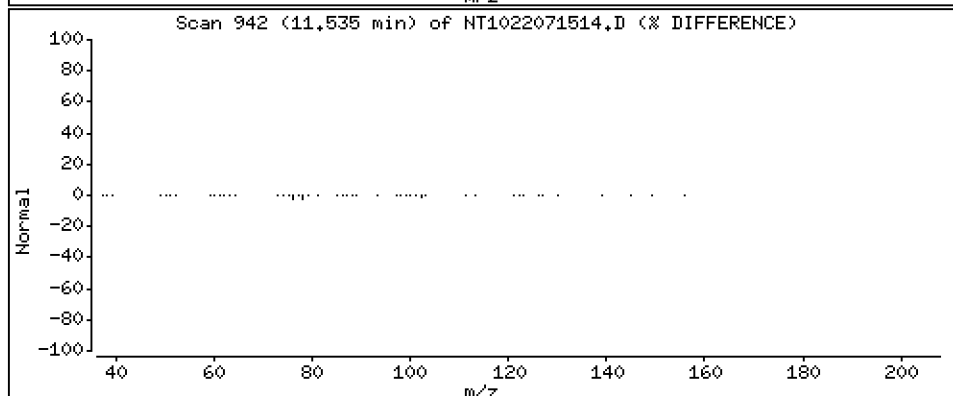
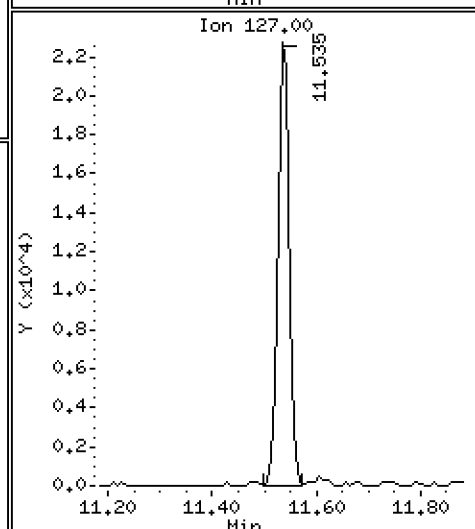
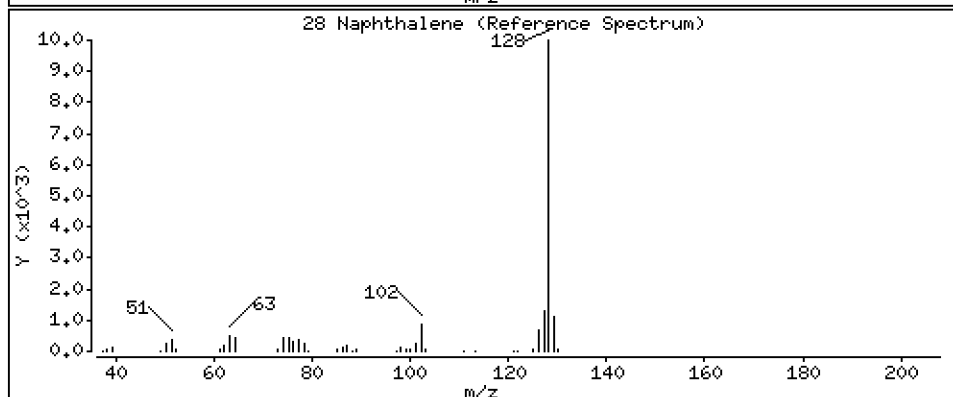
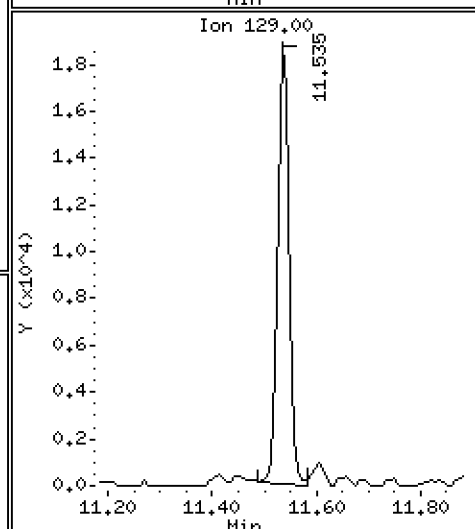
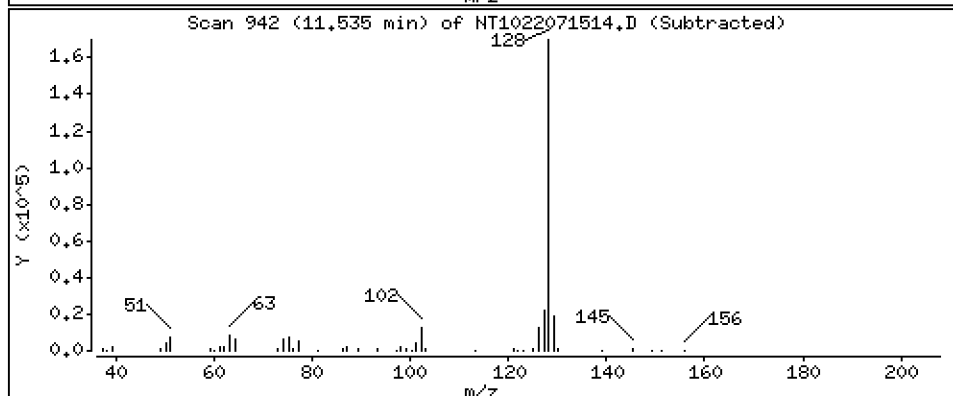
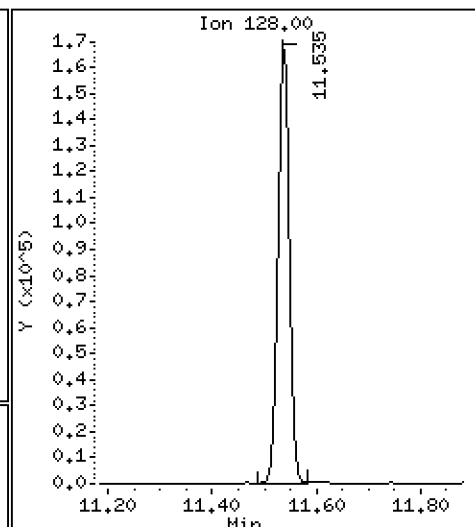
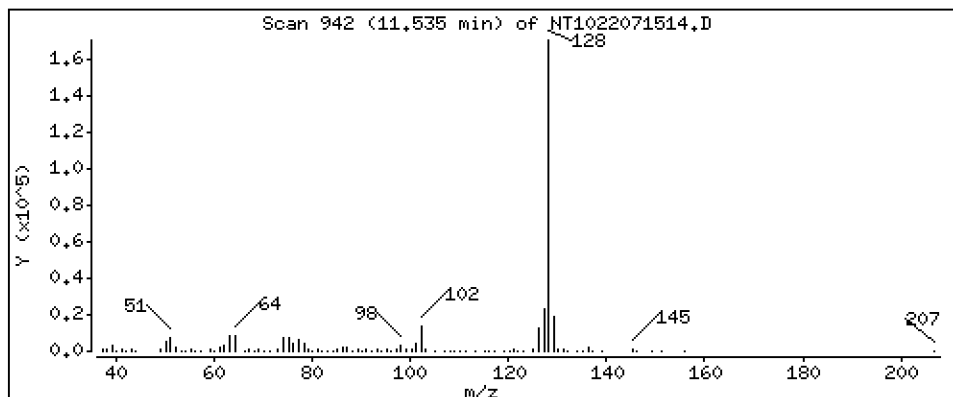
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 11,64 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

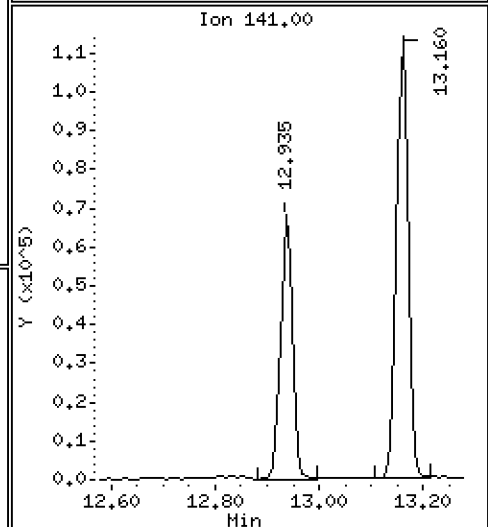
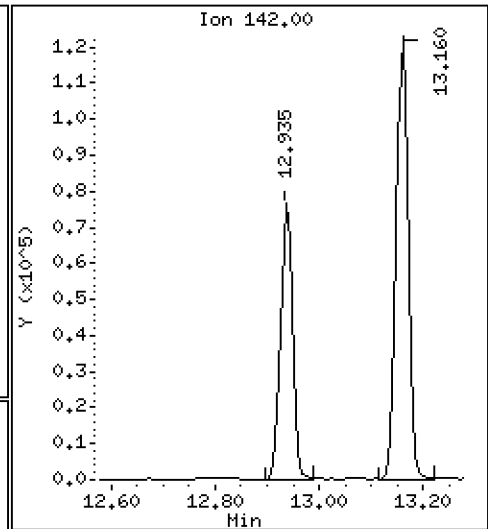
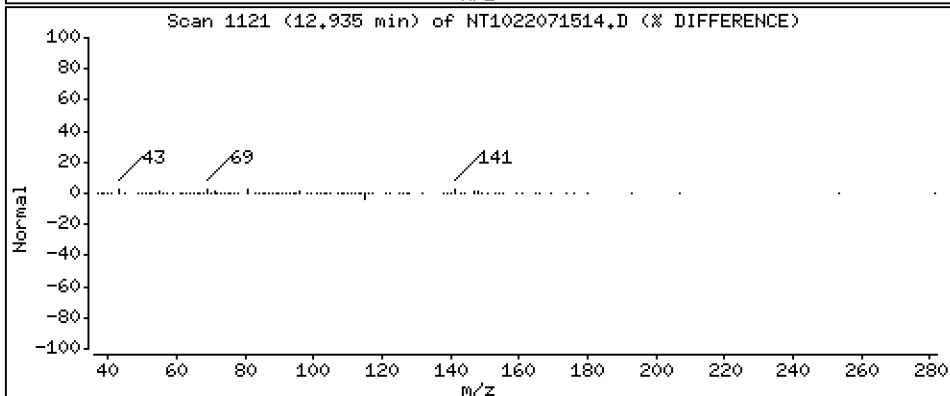
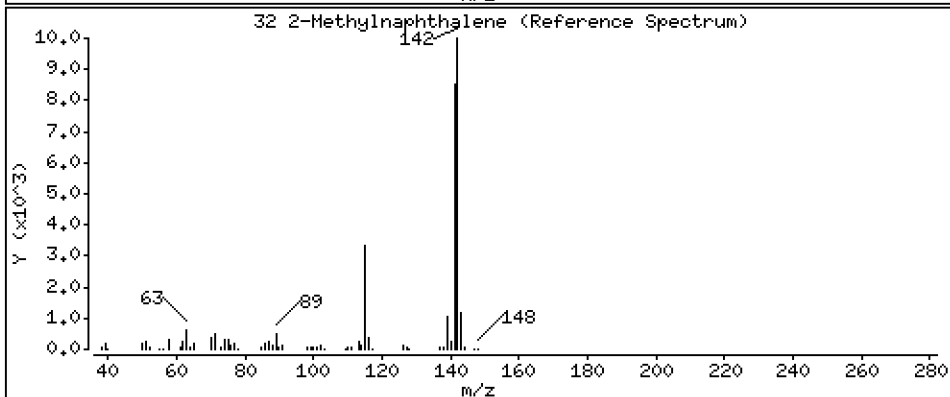
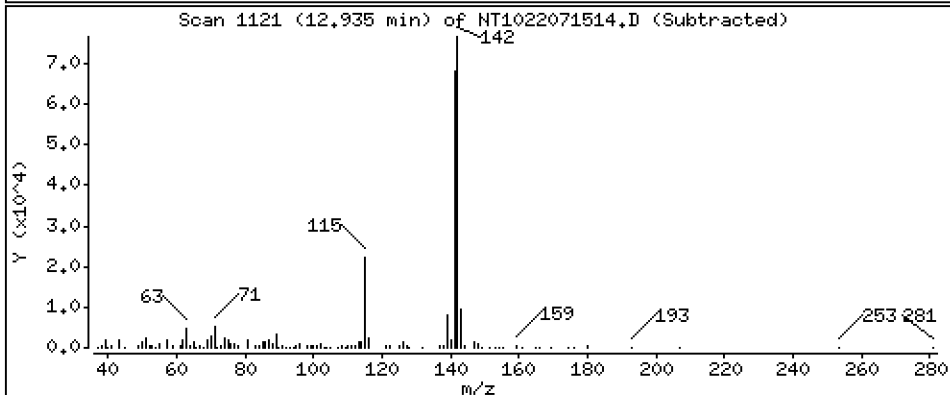
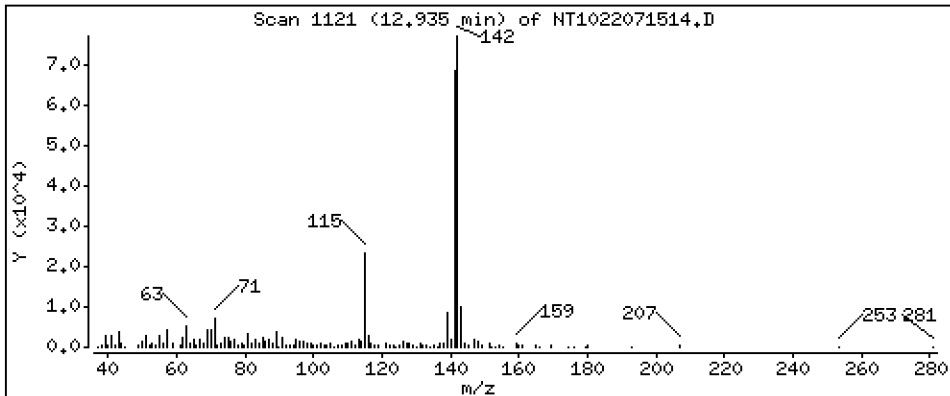
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 5,310 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

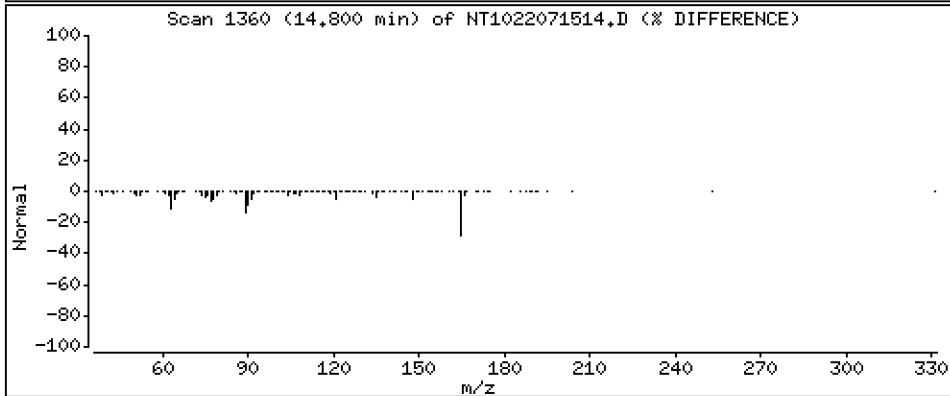
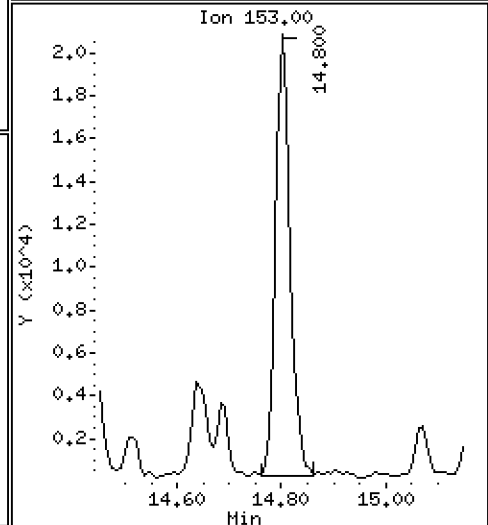
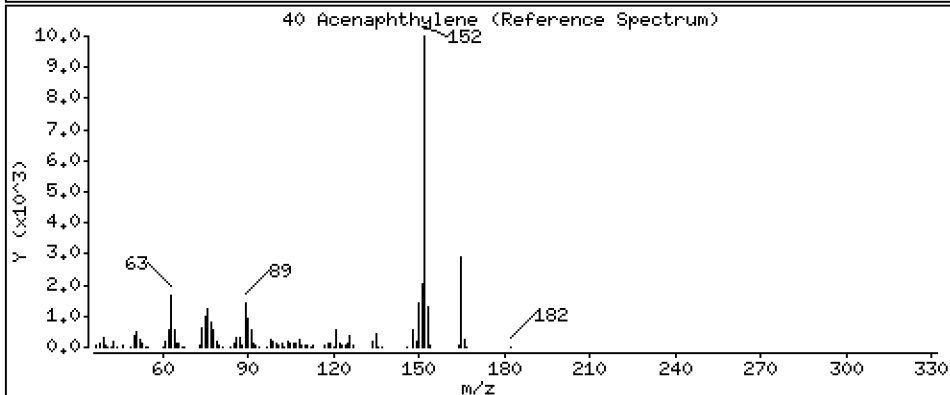
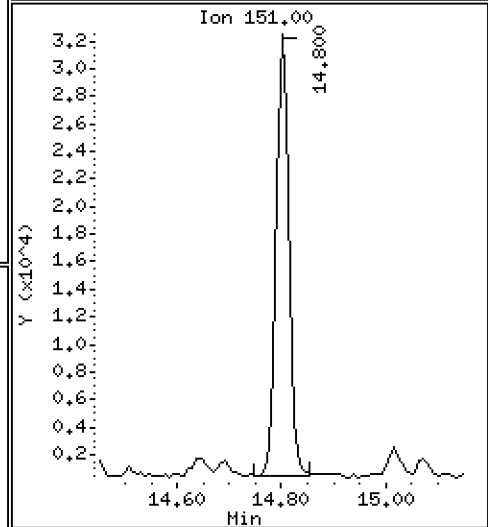
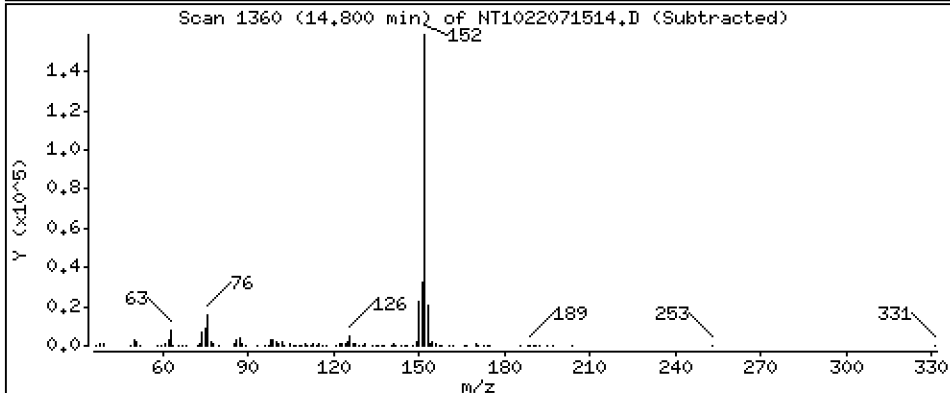
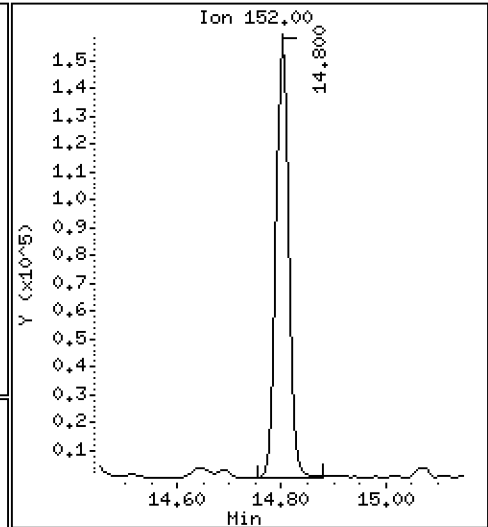
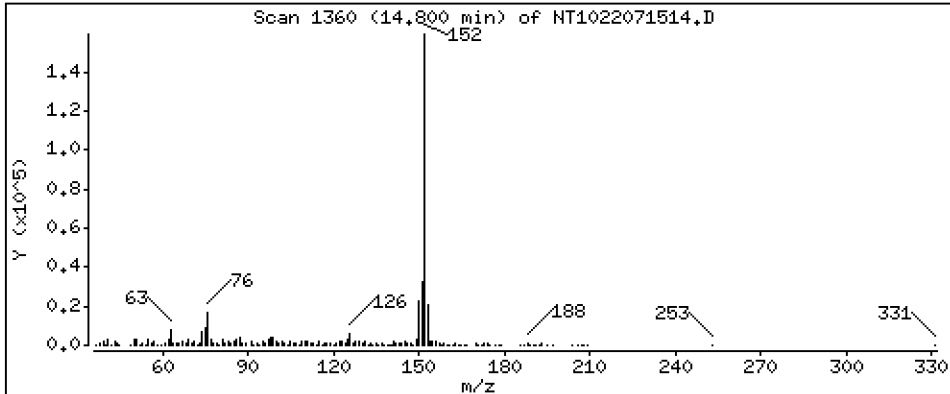
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 11,14 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

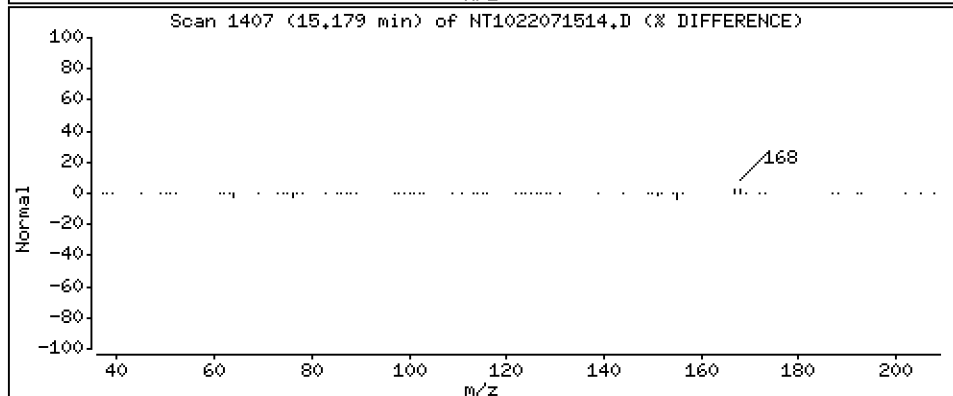
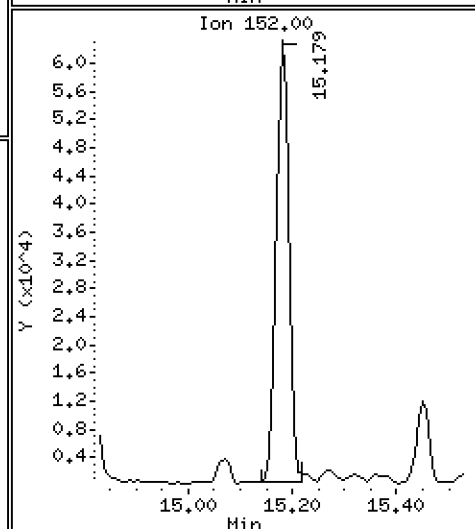
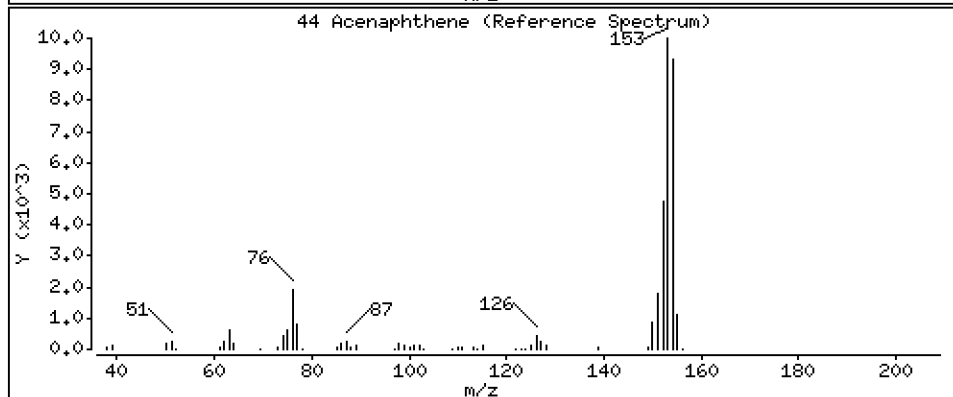
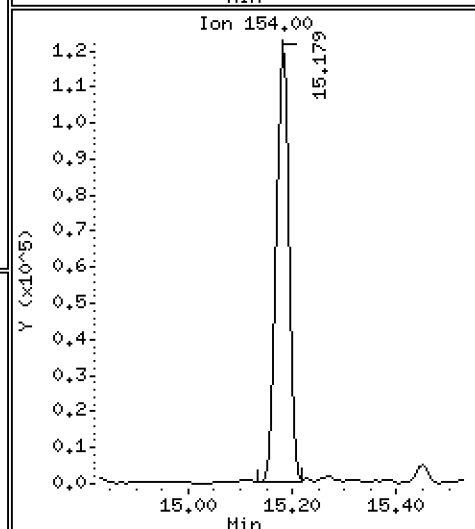
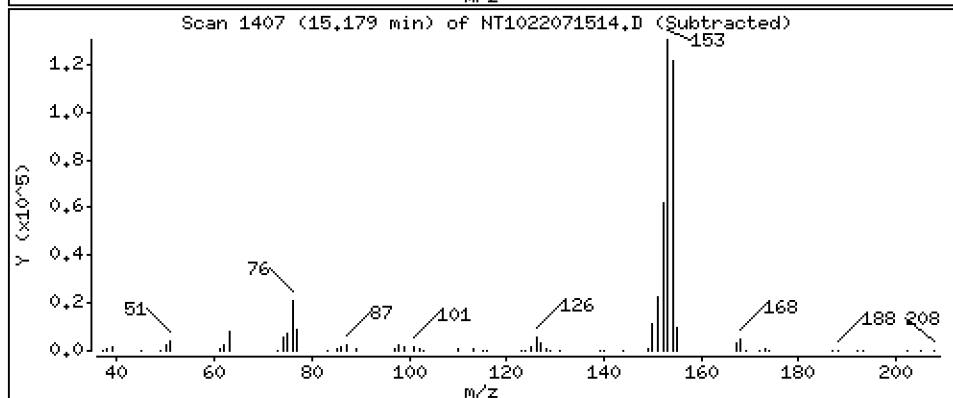
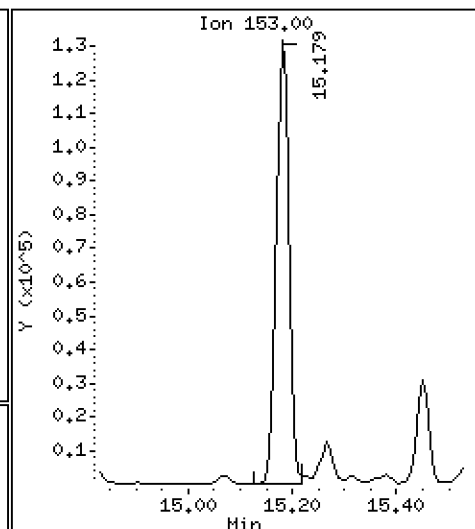
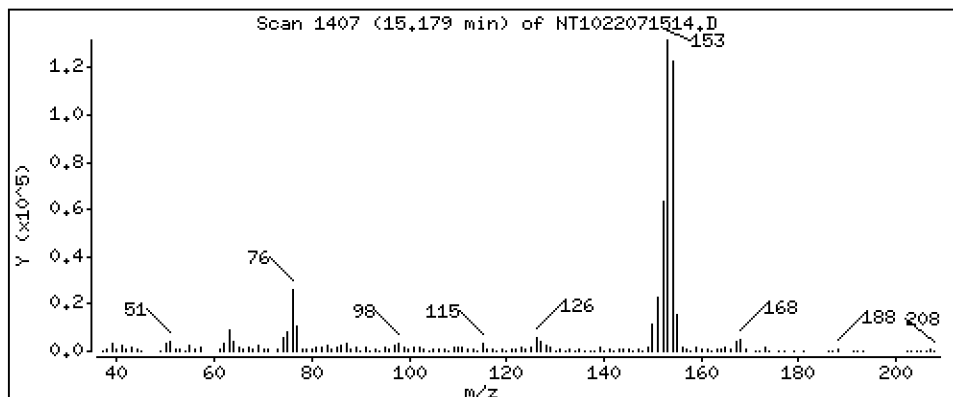
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 18,67 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

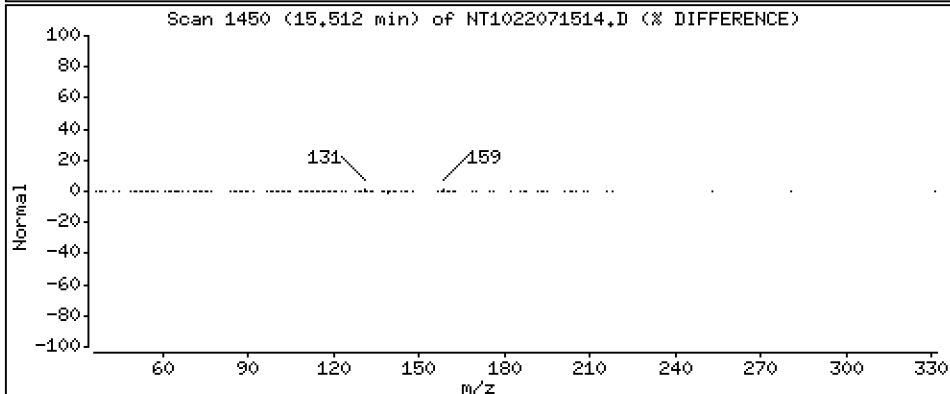
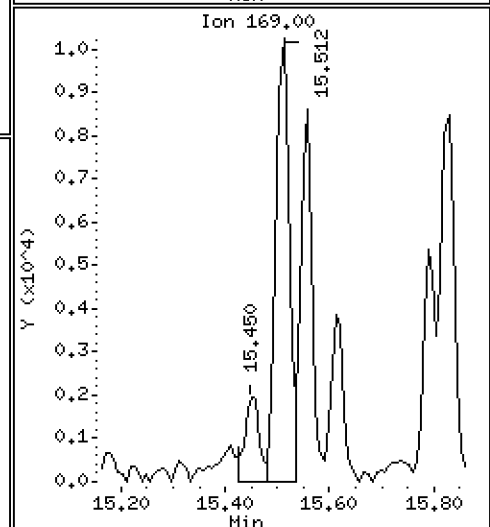
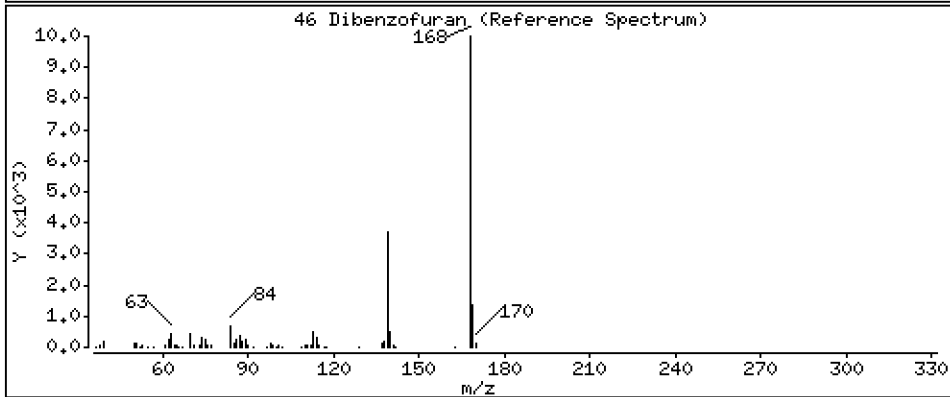
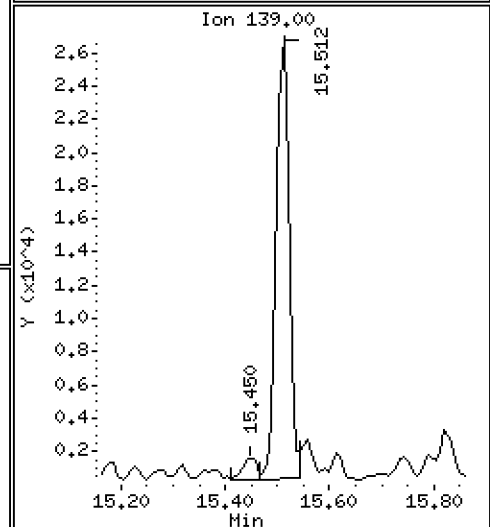
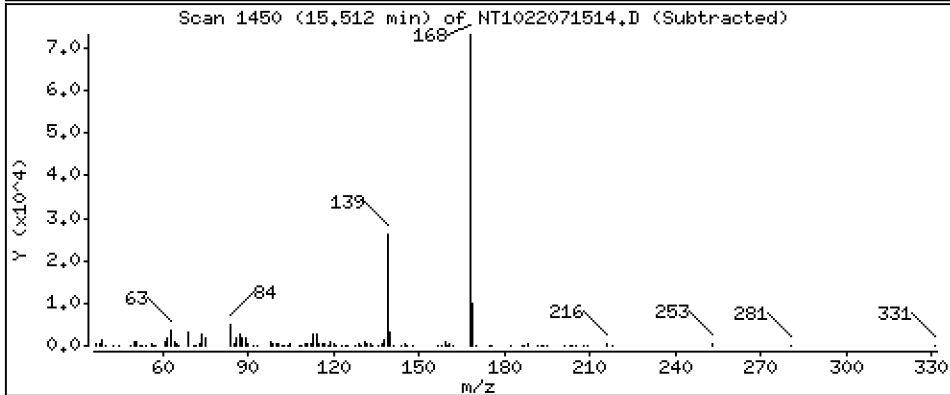
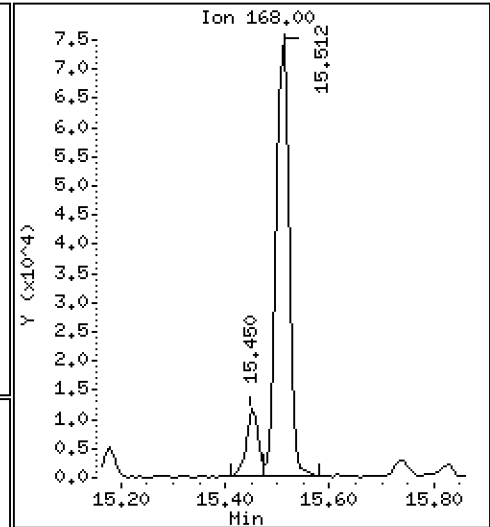
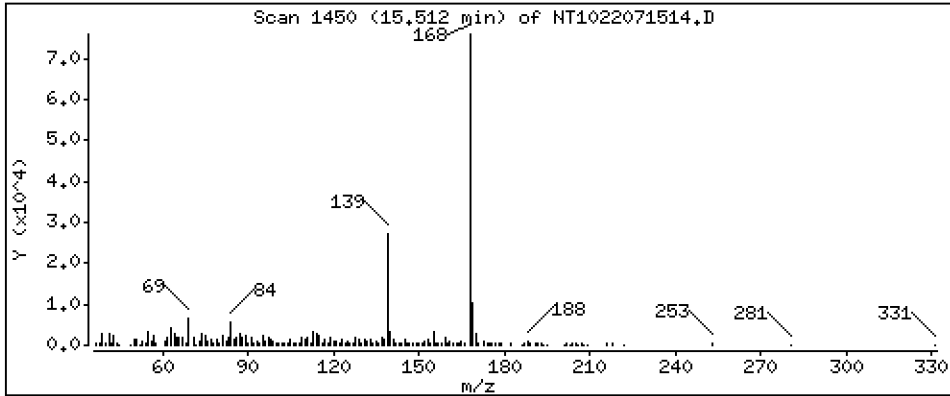
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 6,865 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

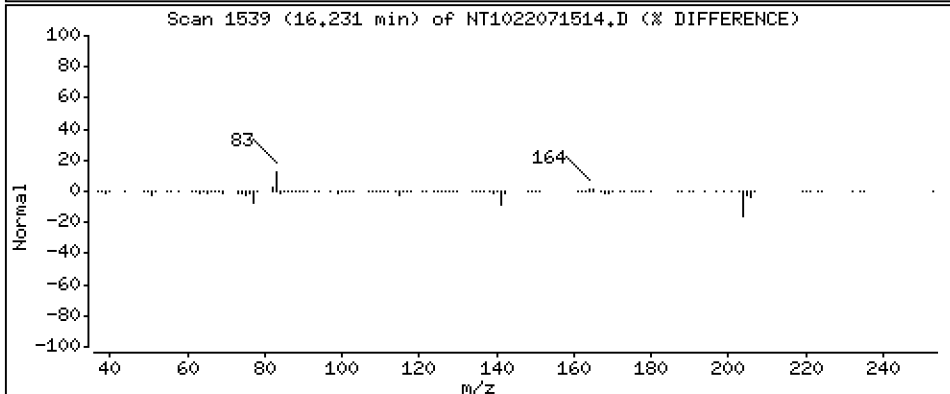
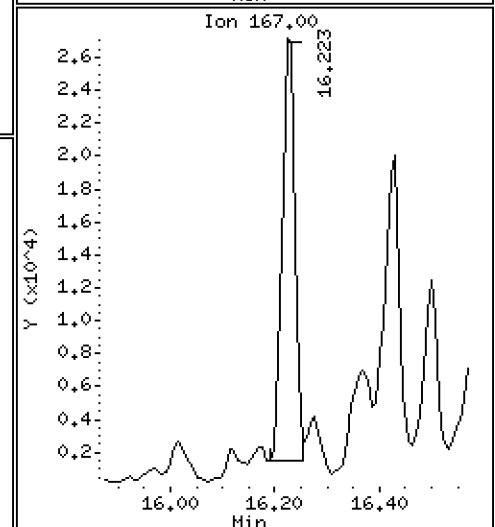
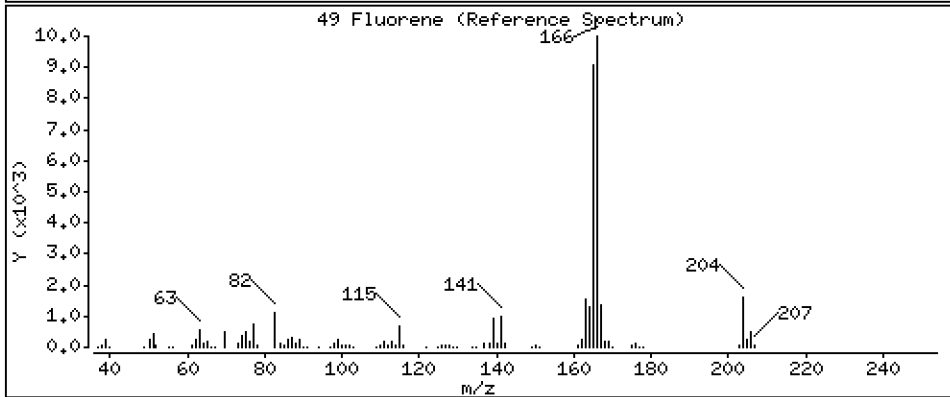
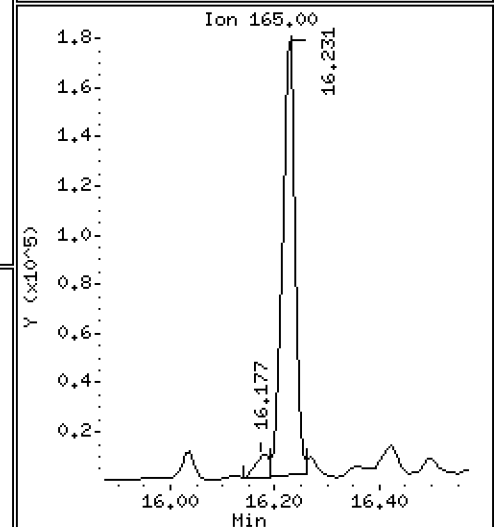
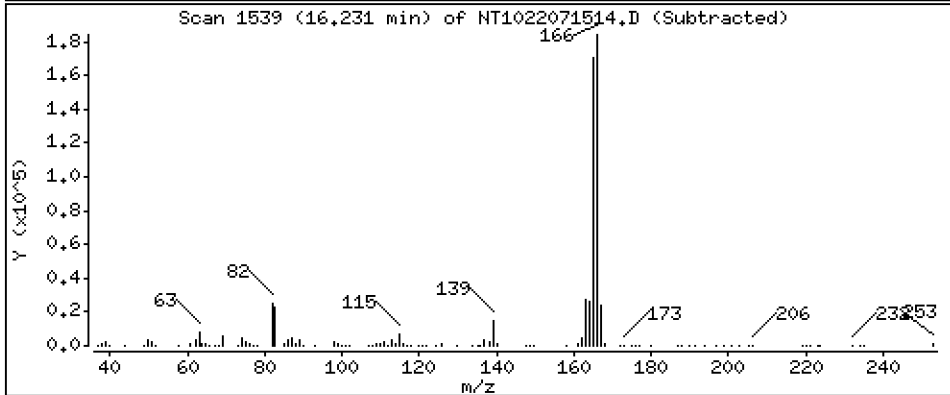
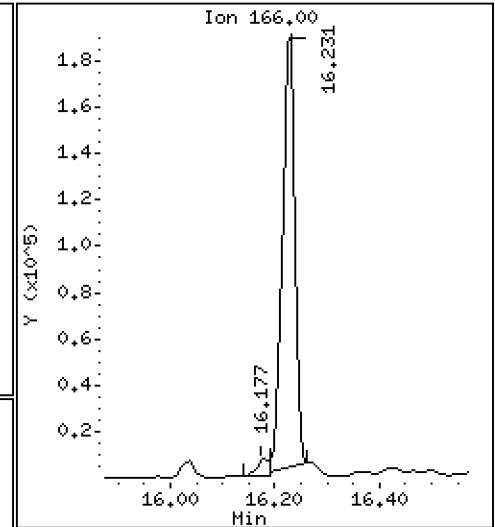
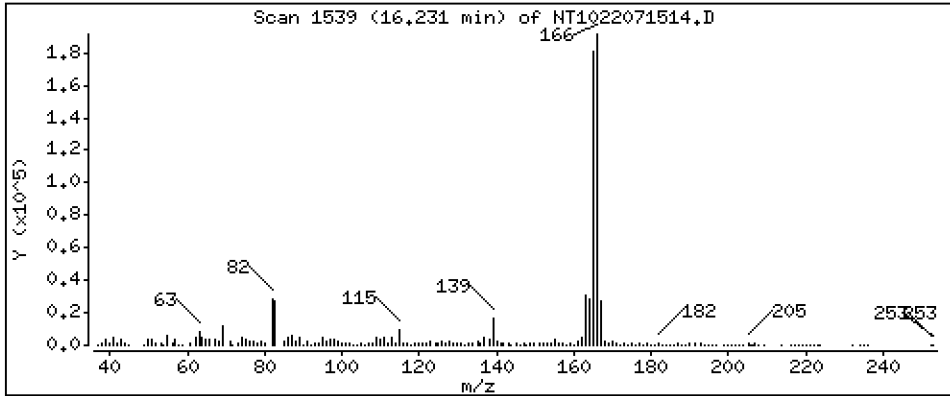
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 14,40 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

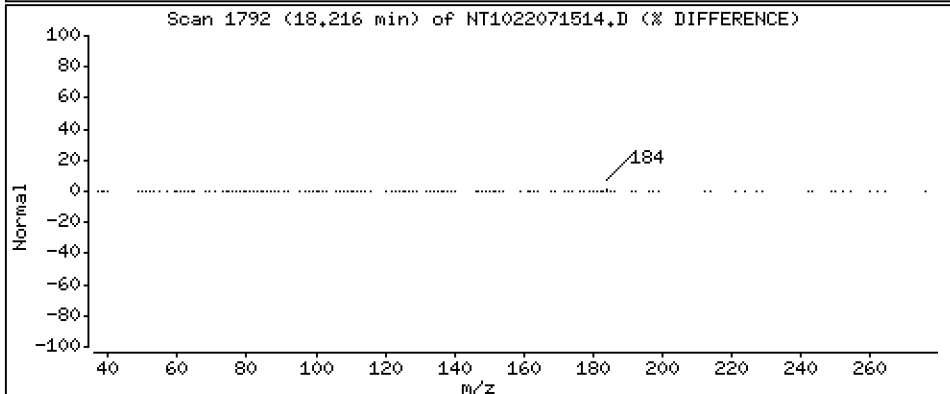
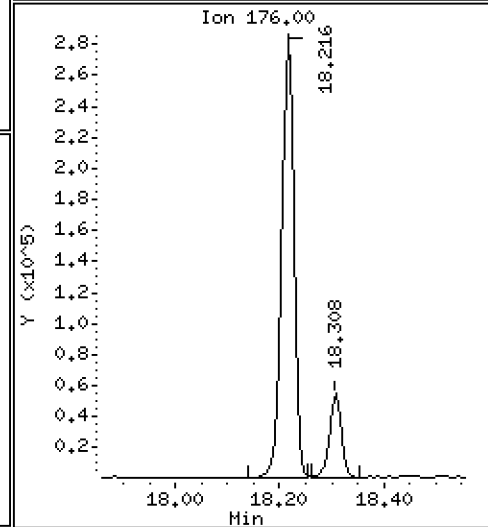
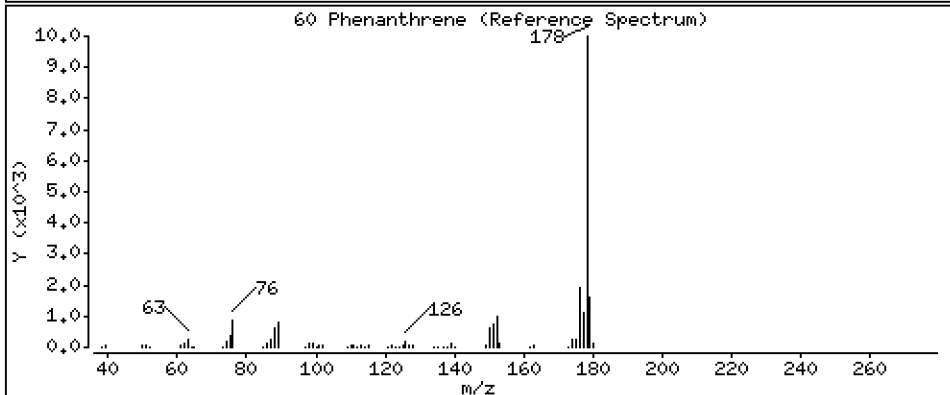
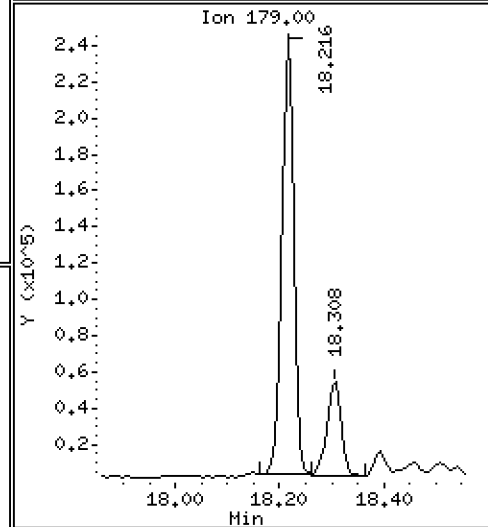
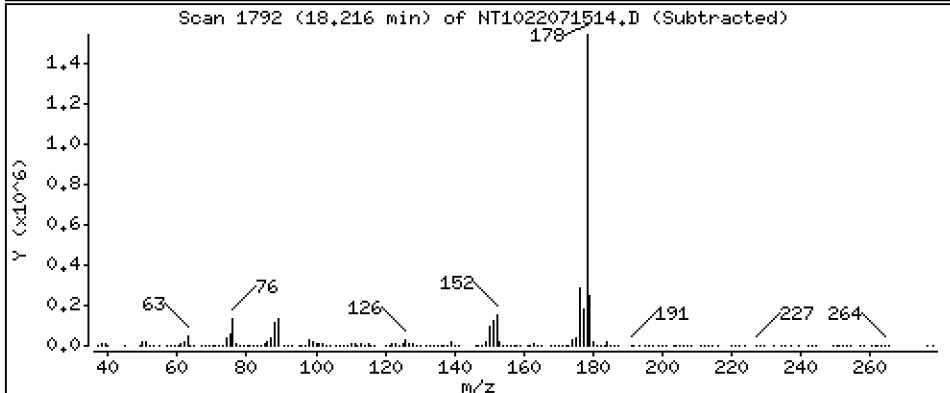
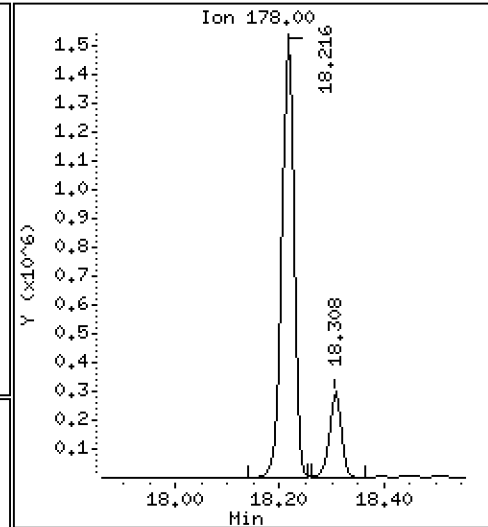
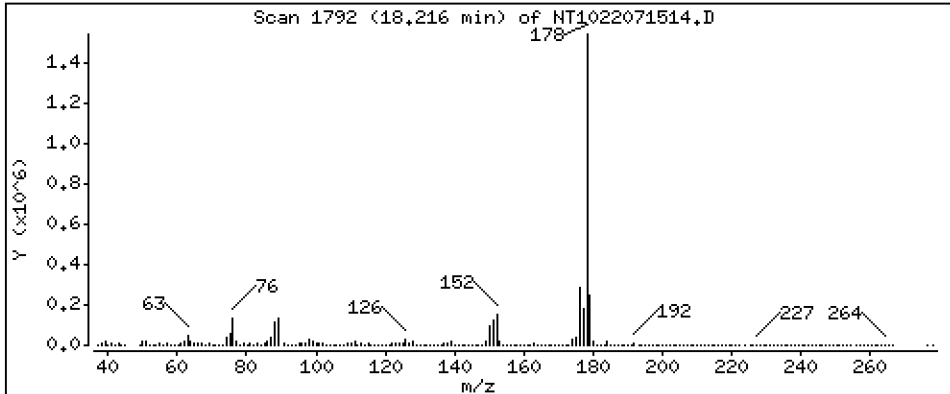
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 174.4 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

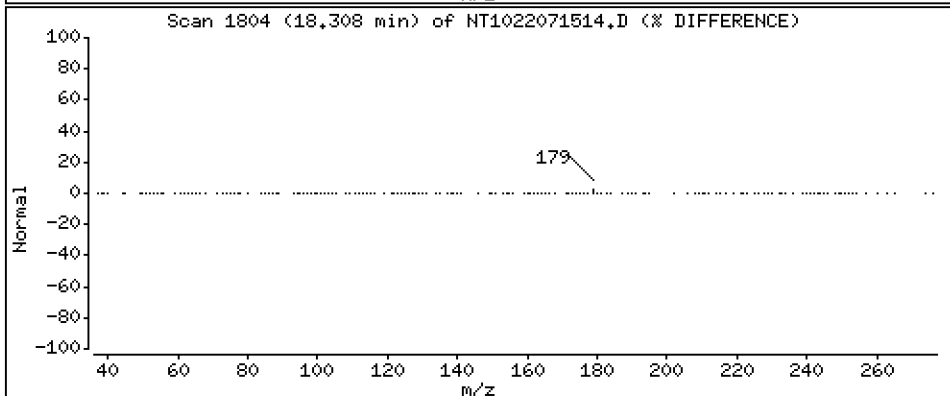
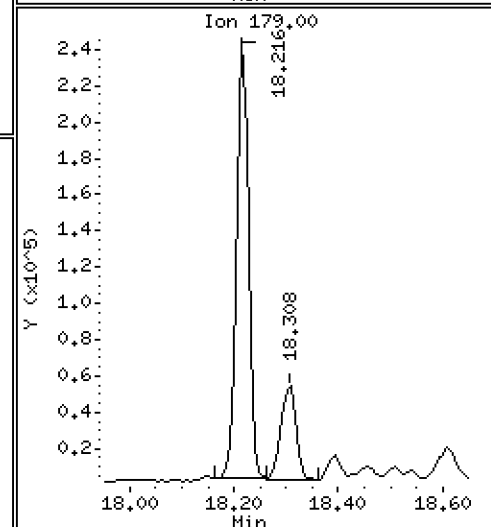
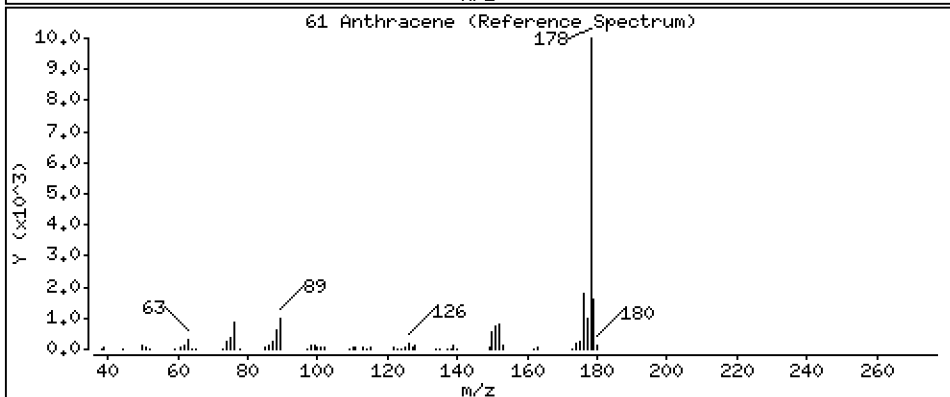
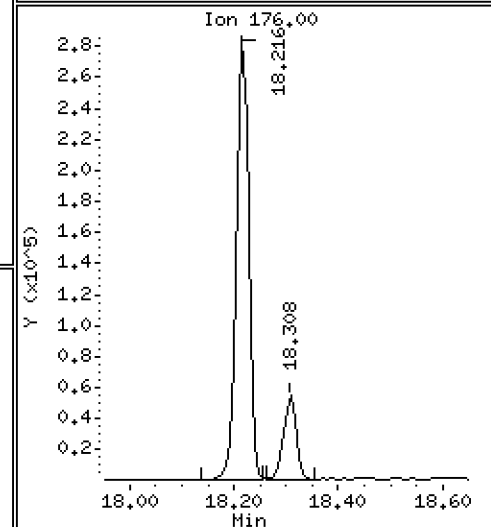
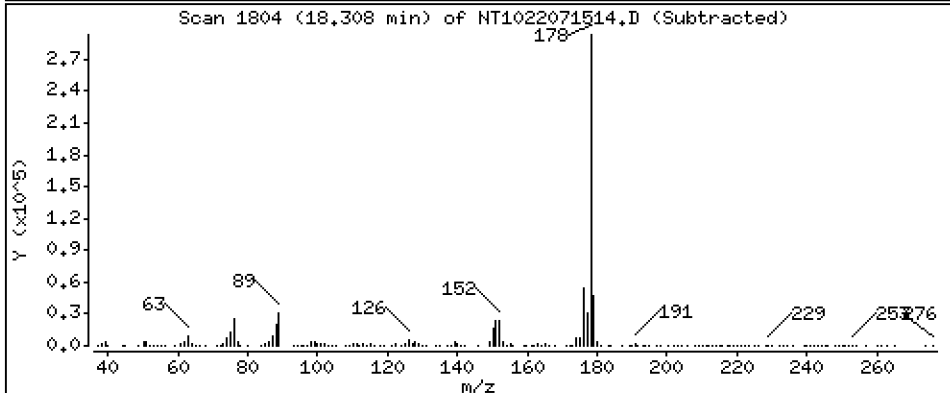
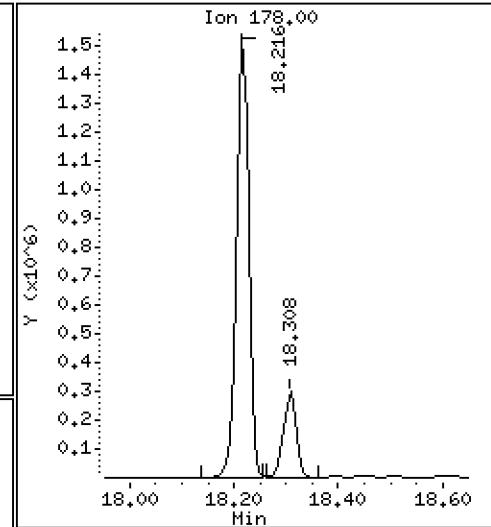
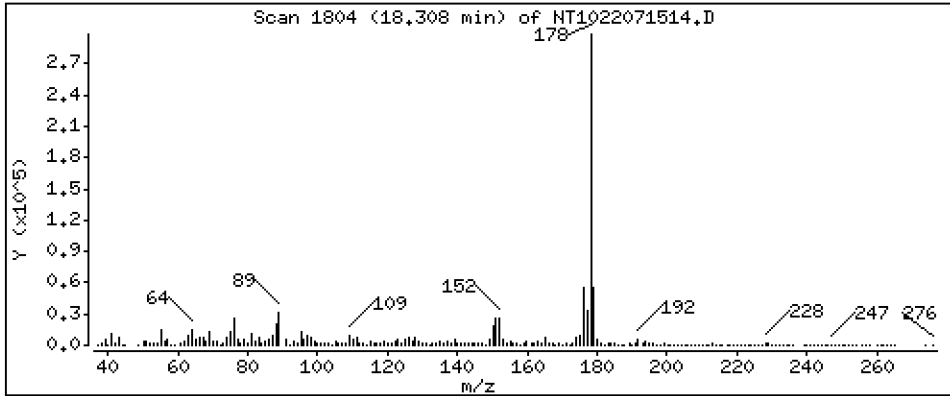
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 34,02 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

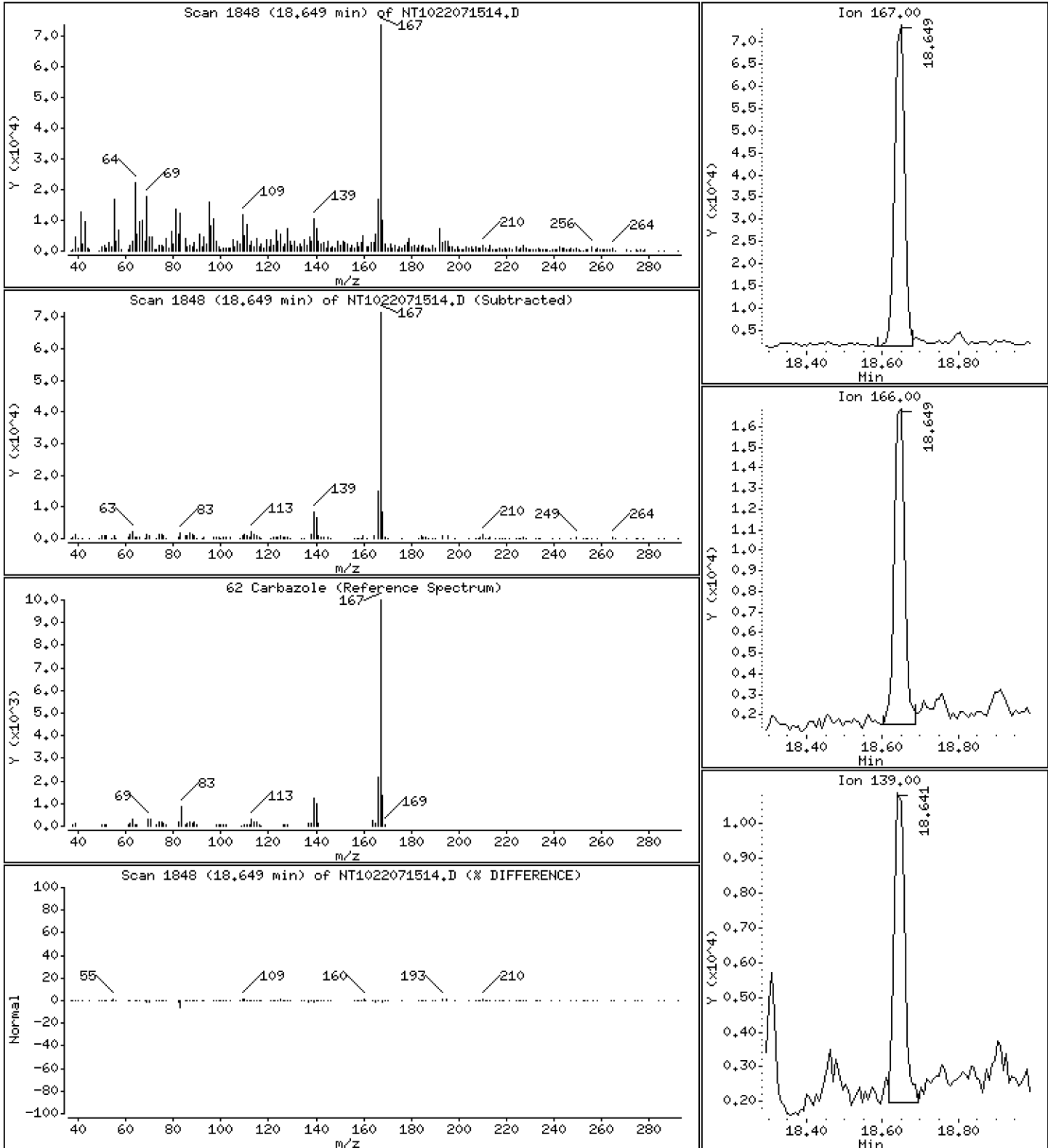
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 9,482 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

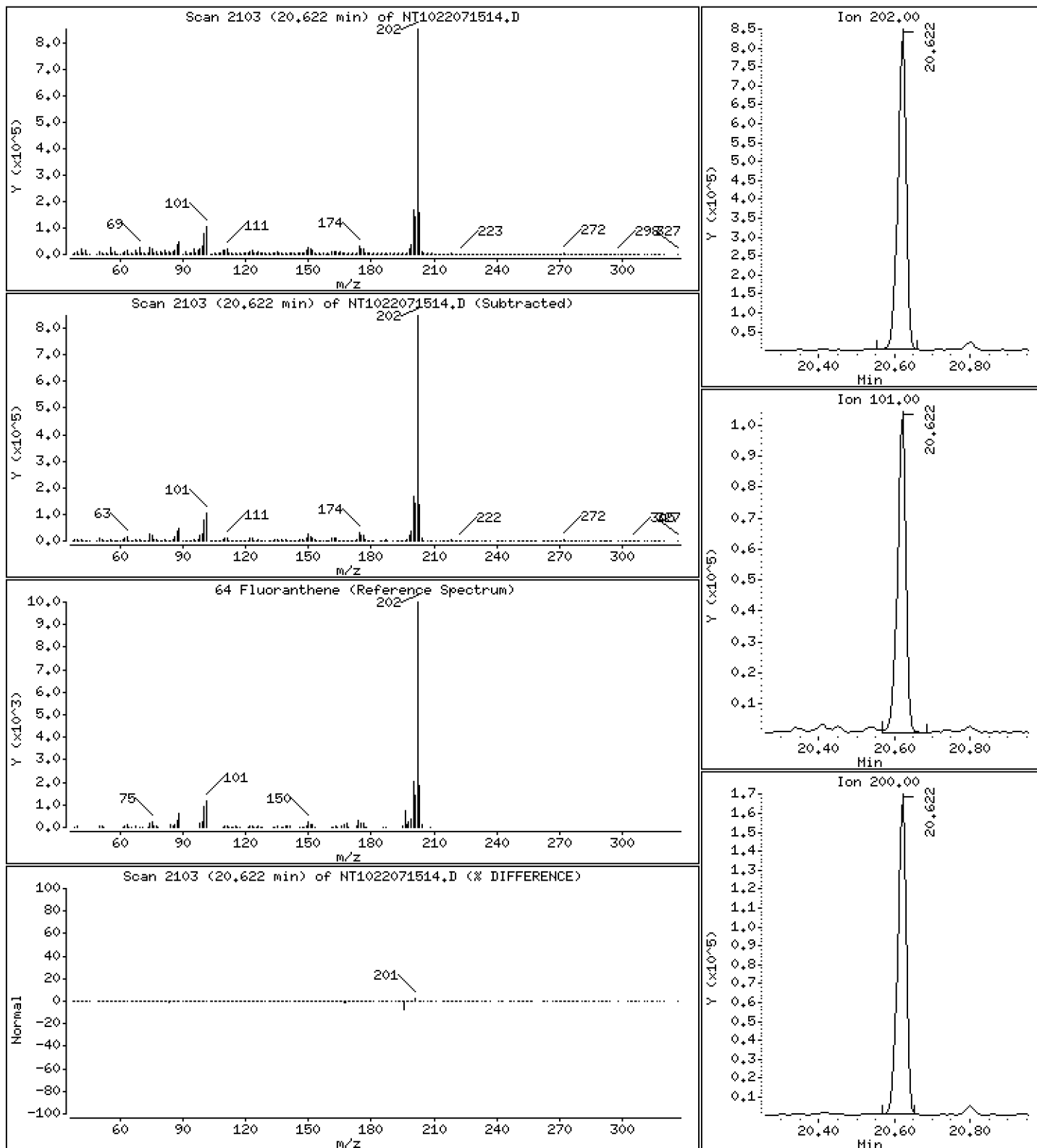
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 162,8 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

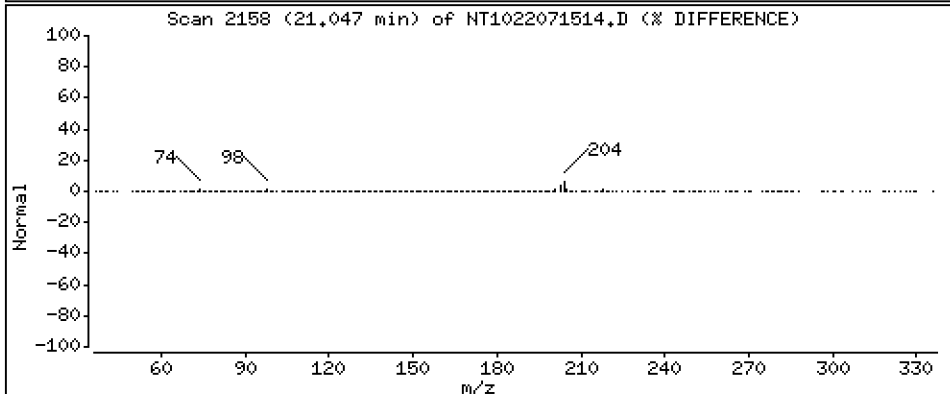
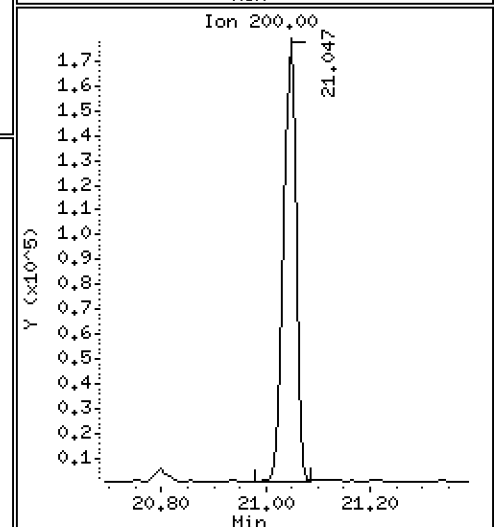
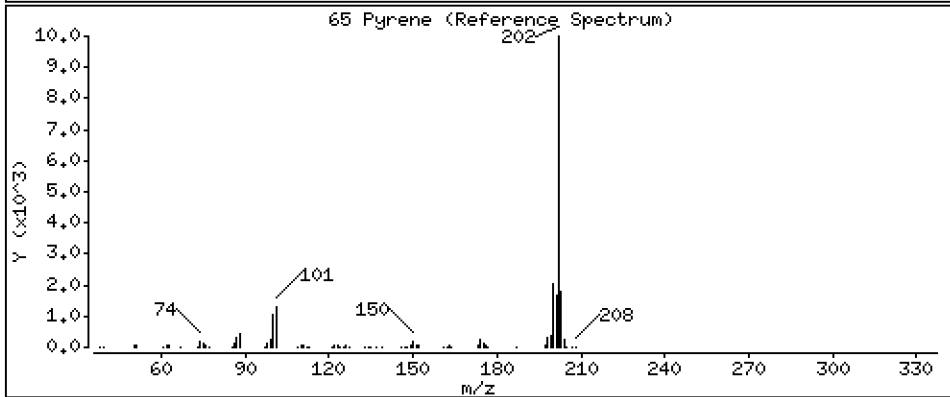
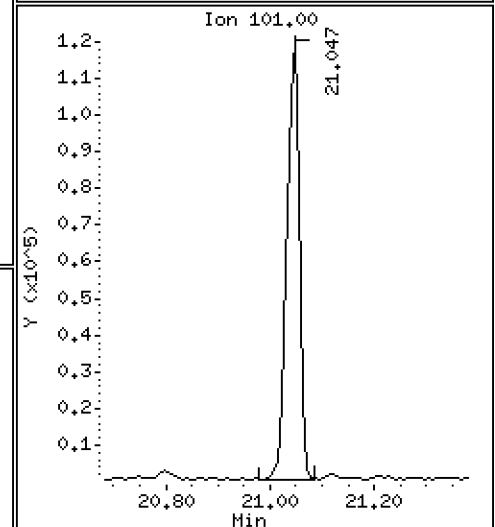
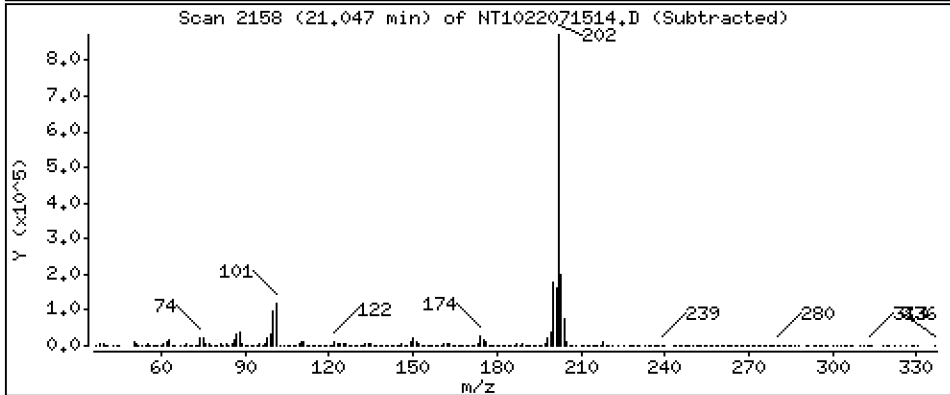
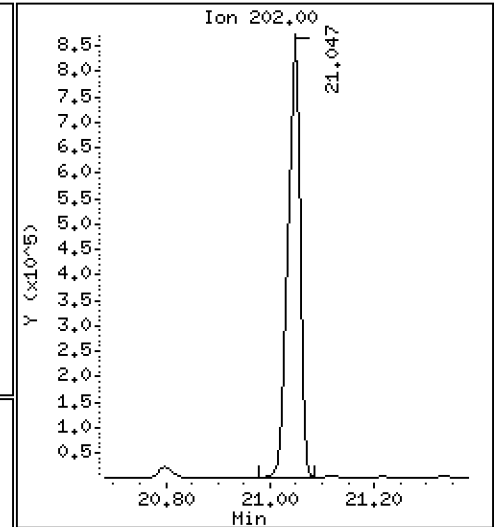
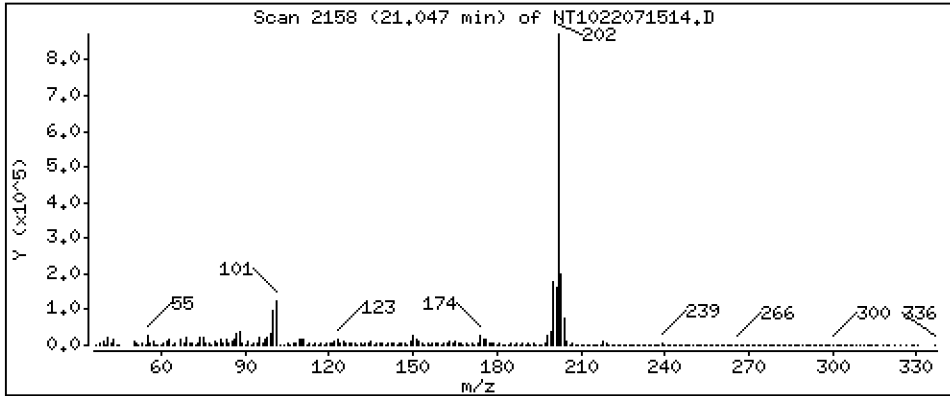
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 184,0 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

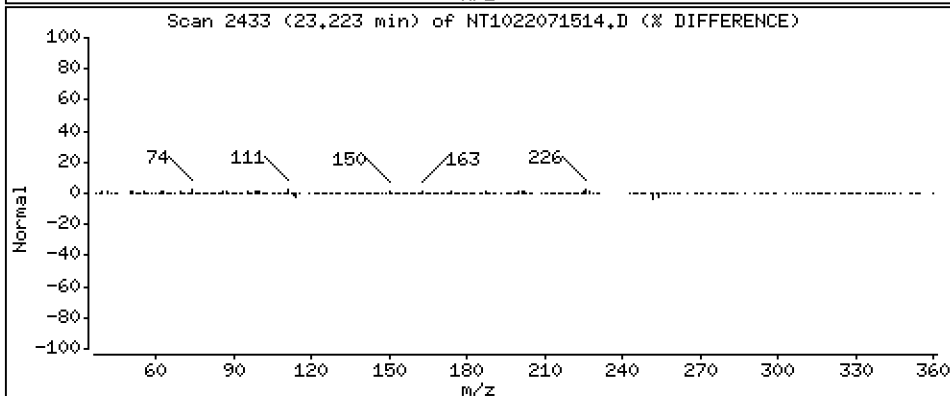
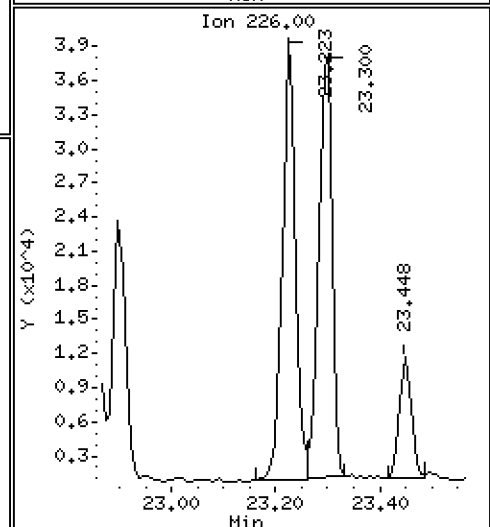
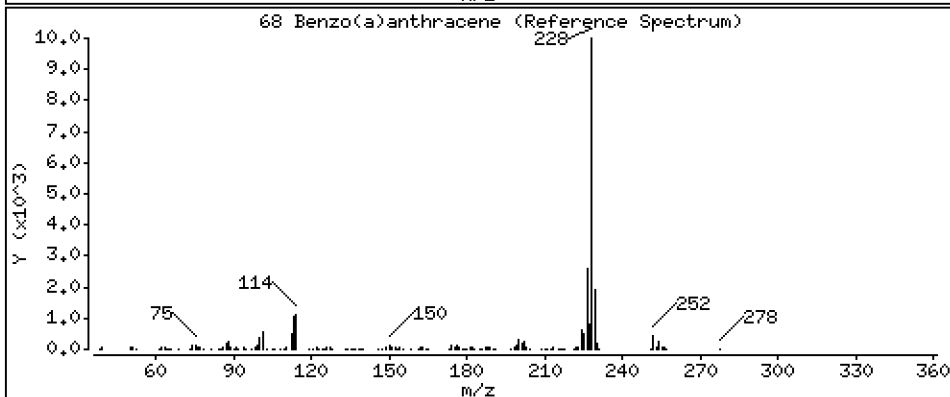
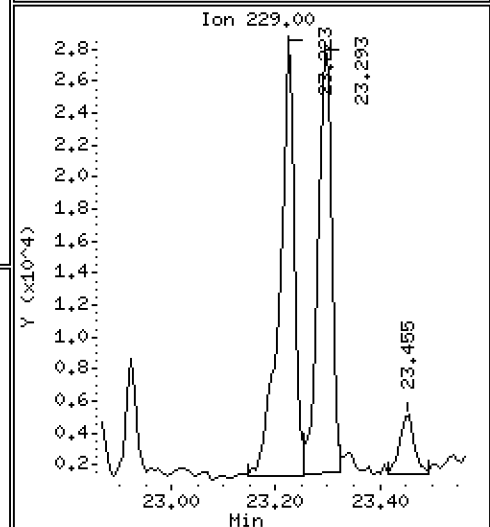
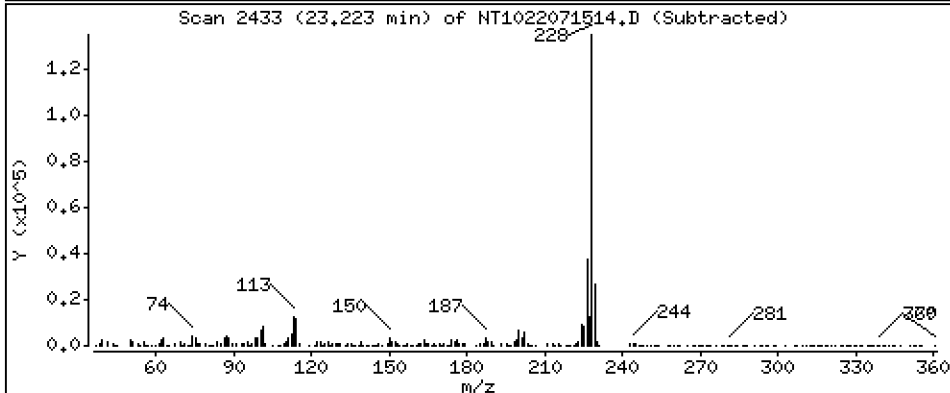
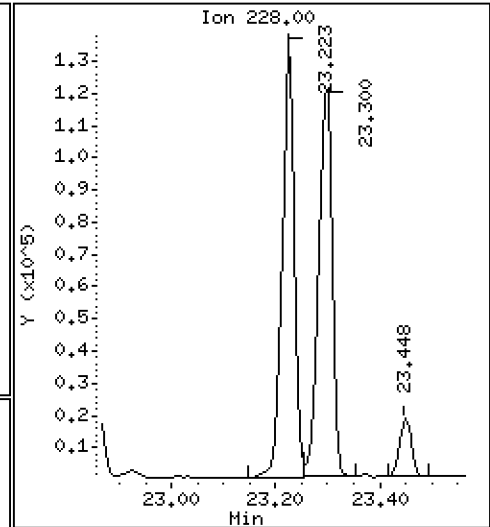
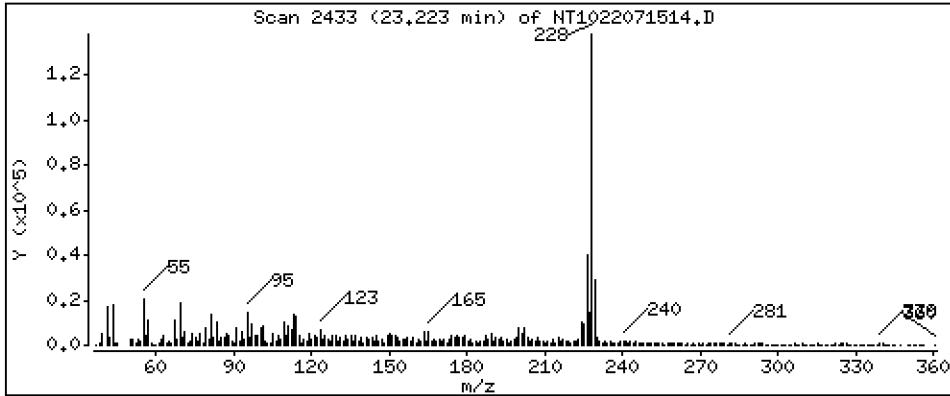
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 51,39 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

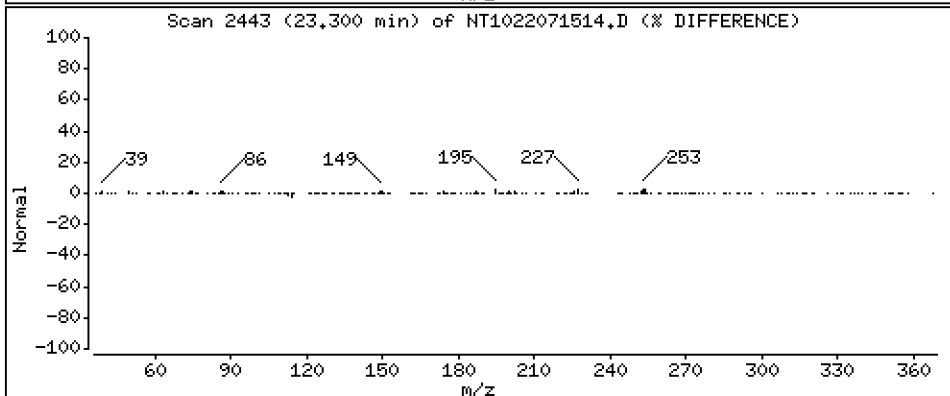
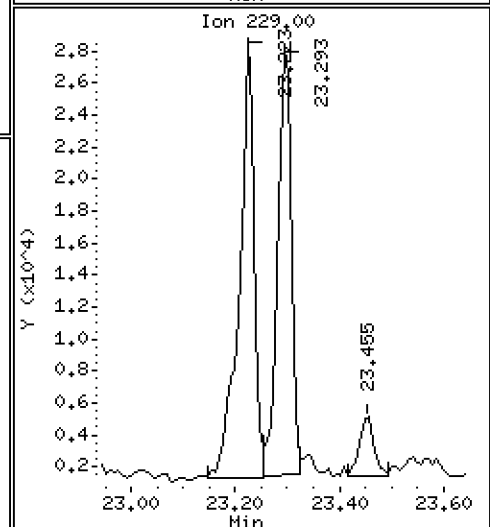
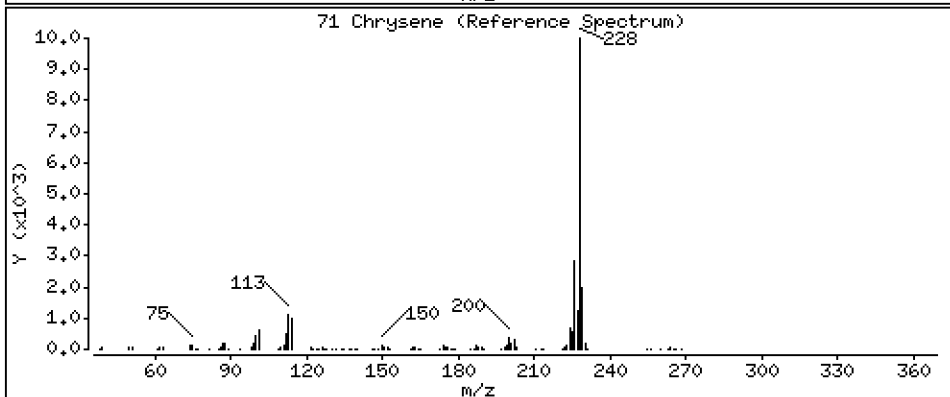
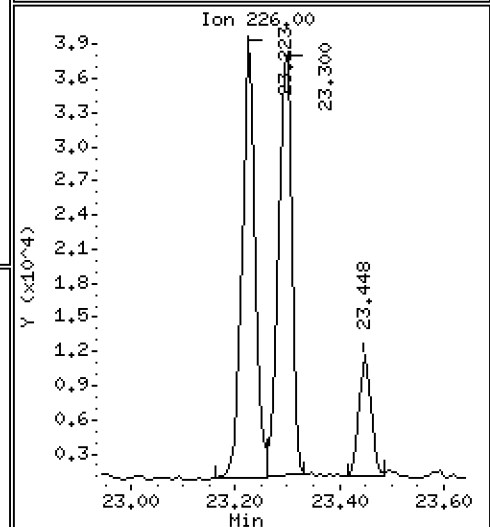
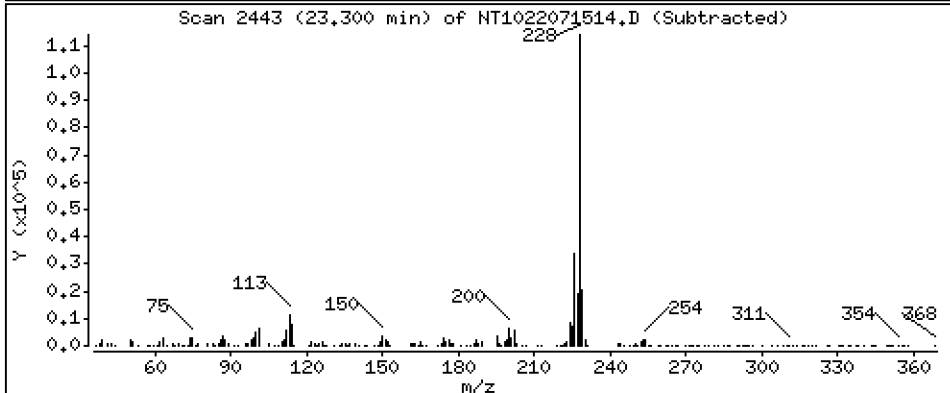
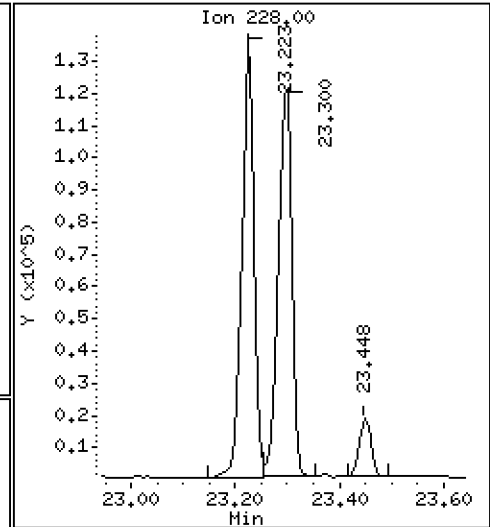
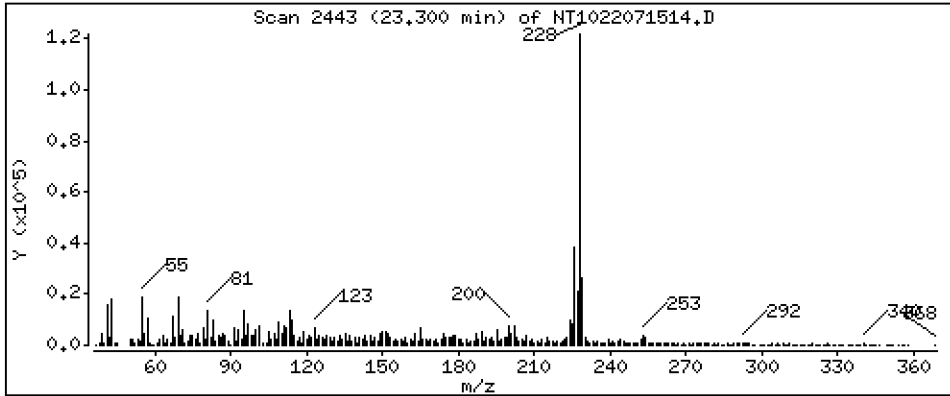
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 70,74 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

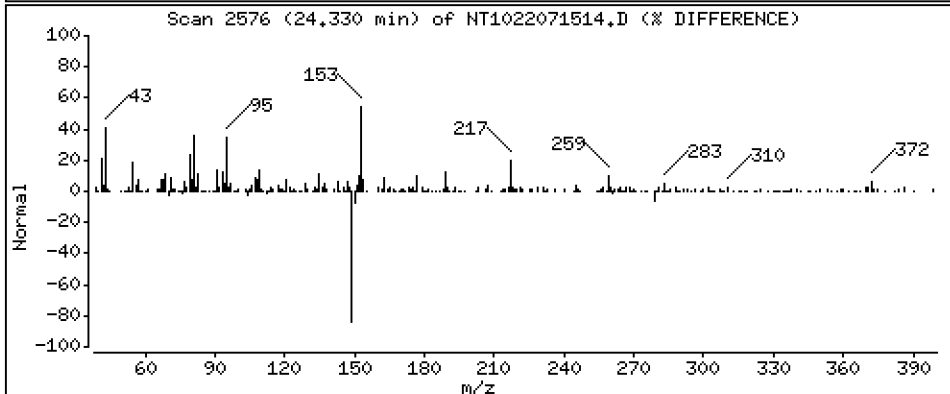
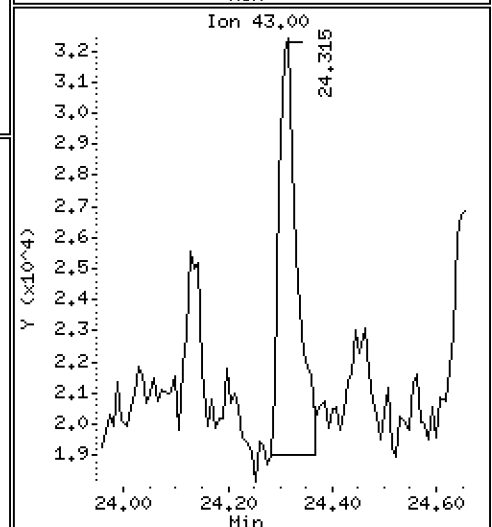
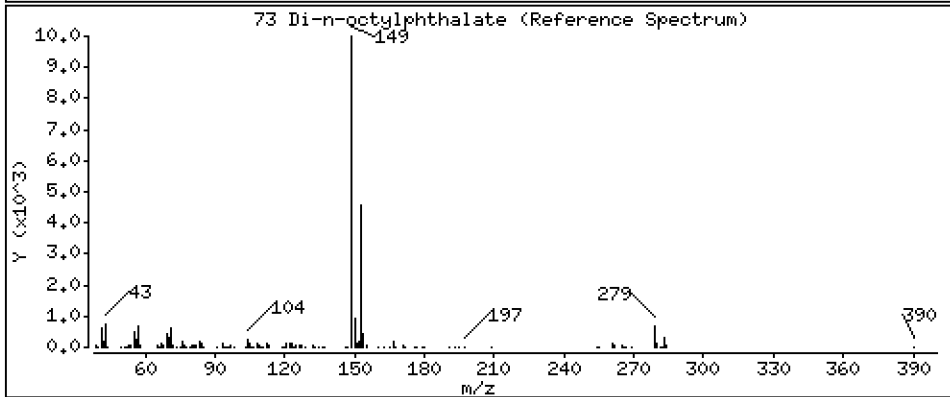
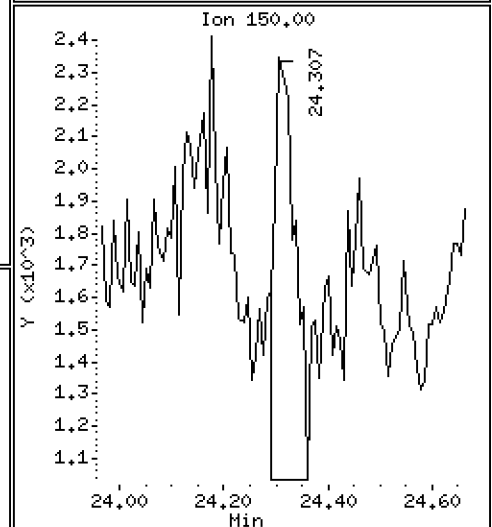
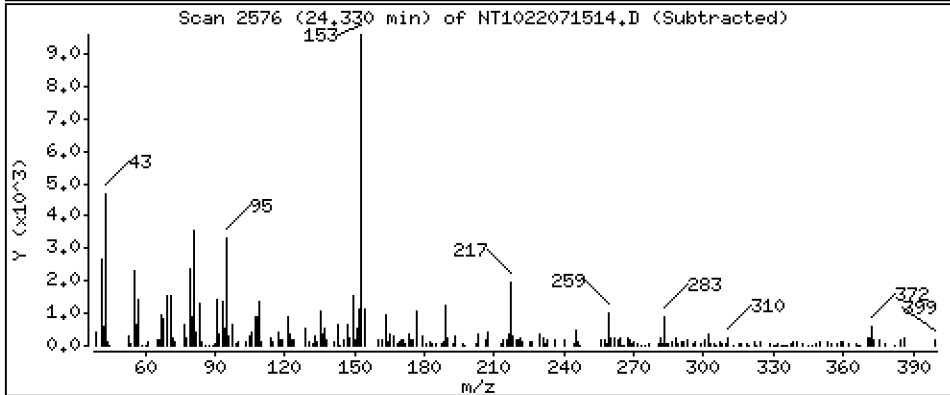
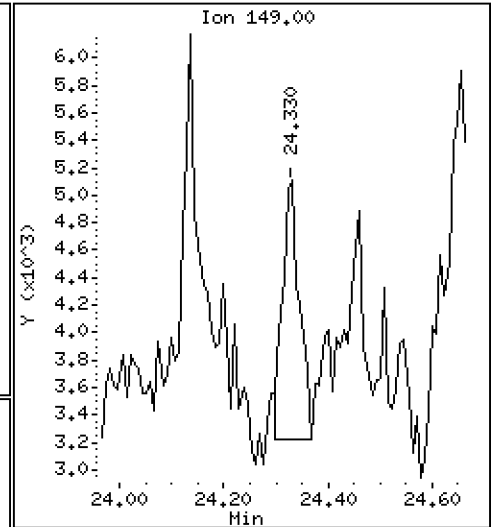
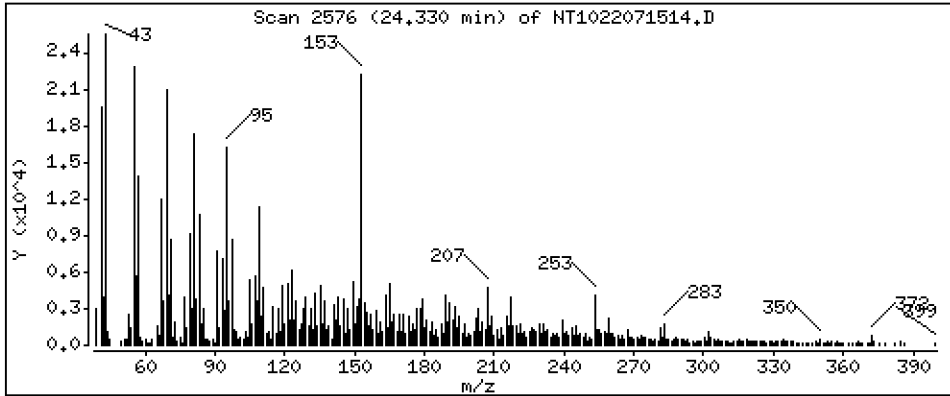
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 1,004 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

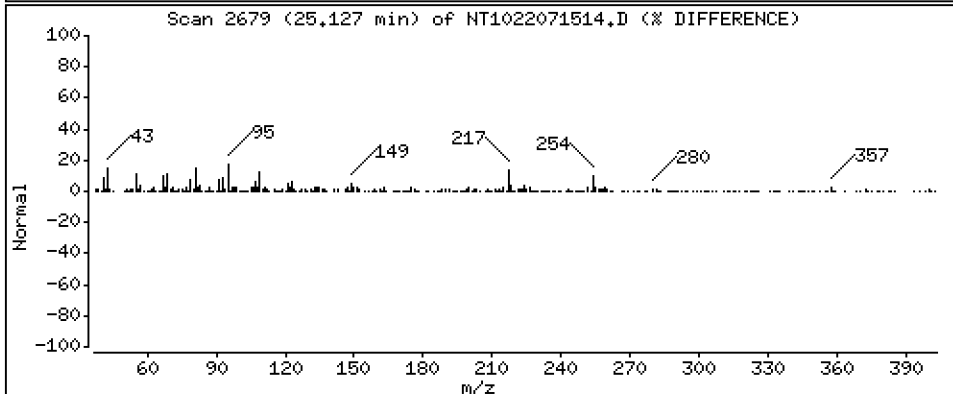
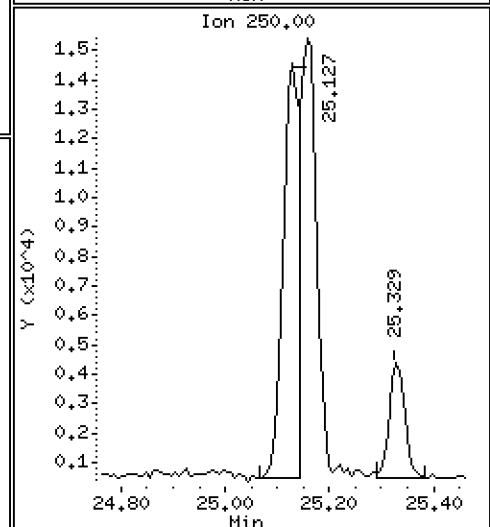
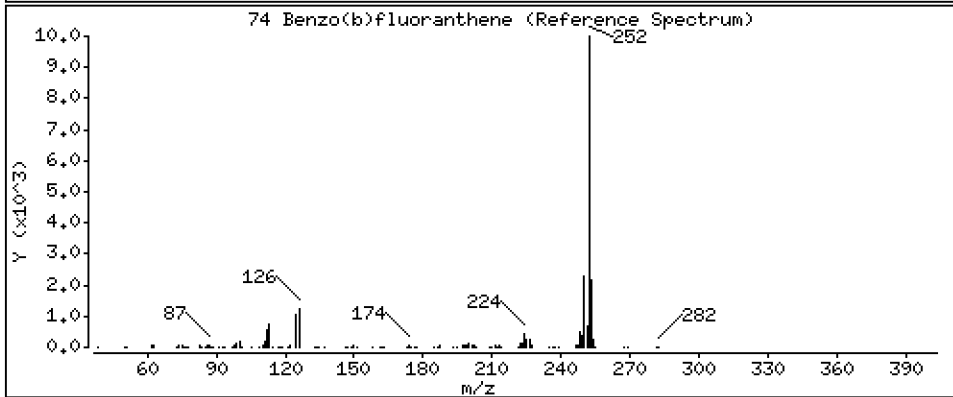
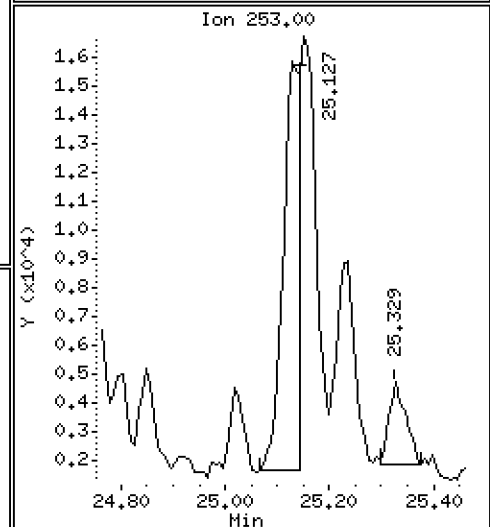
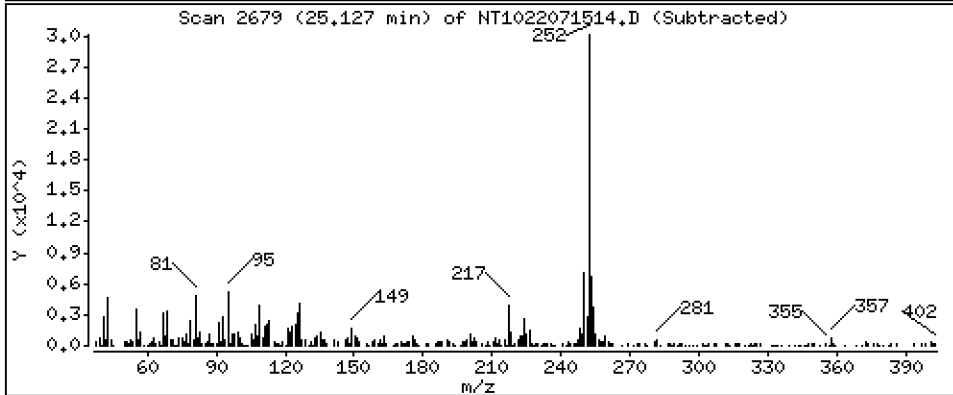
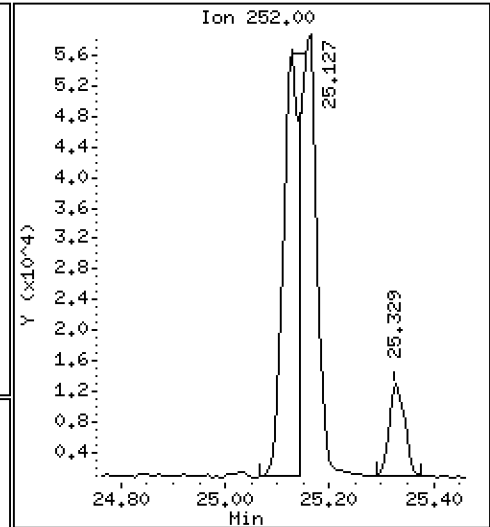
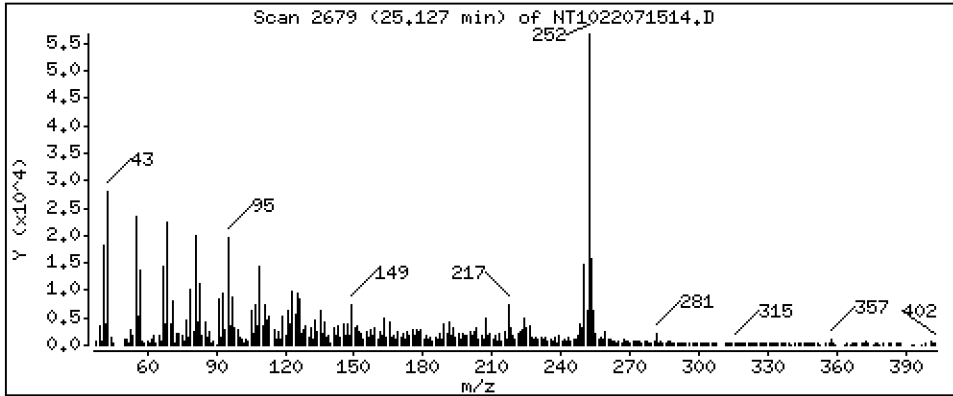
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 32,21 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

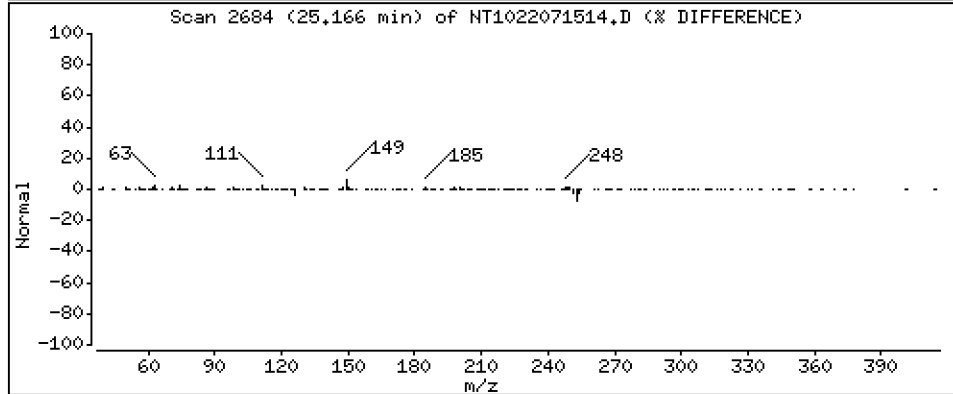
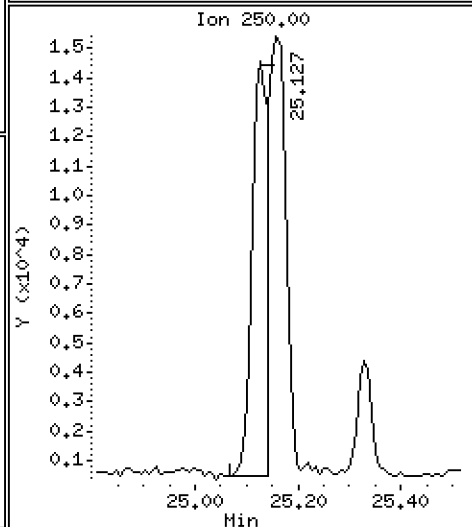
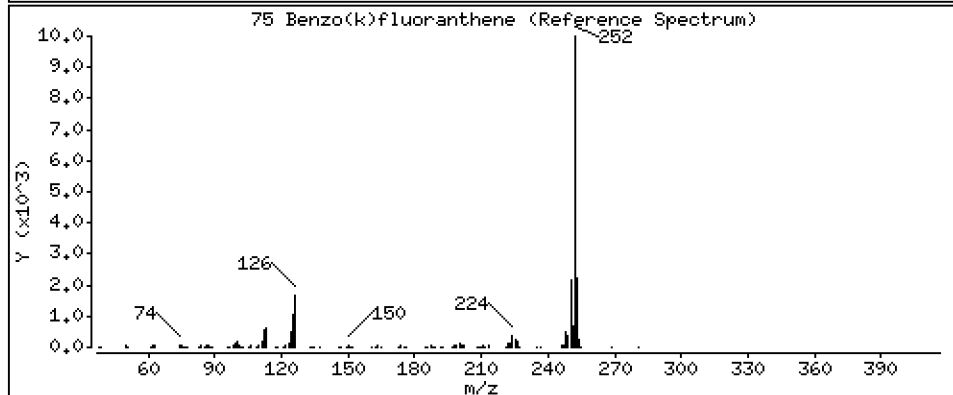
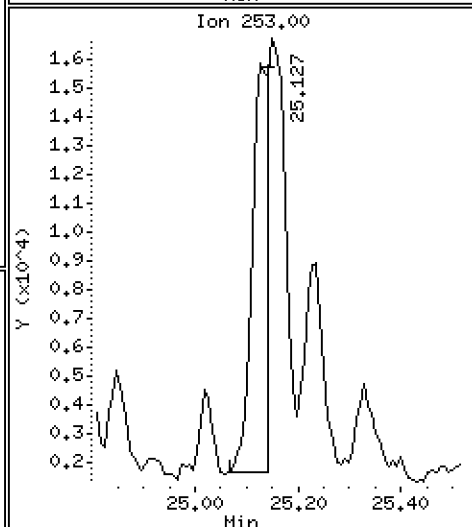
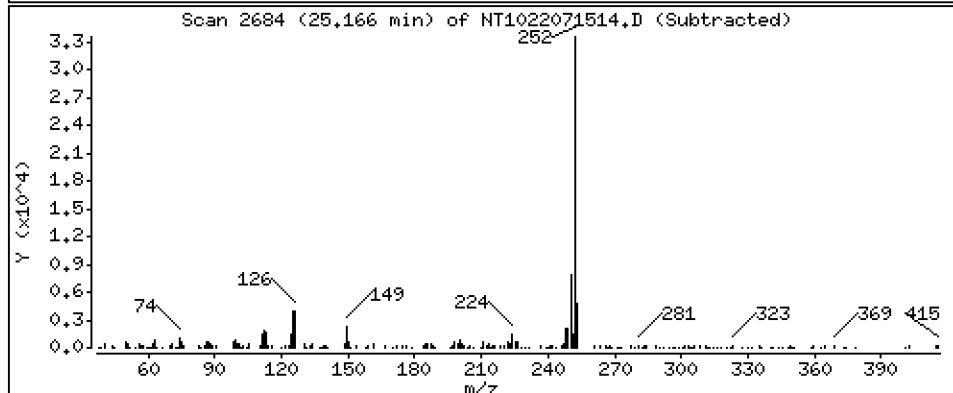
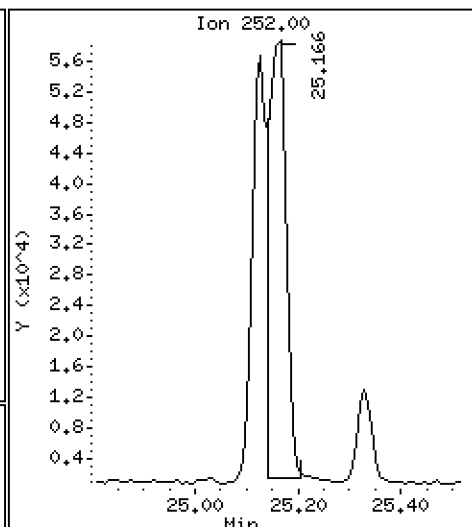
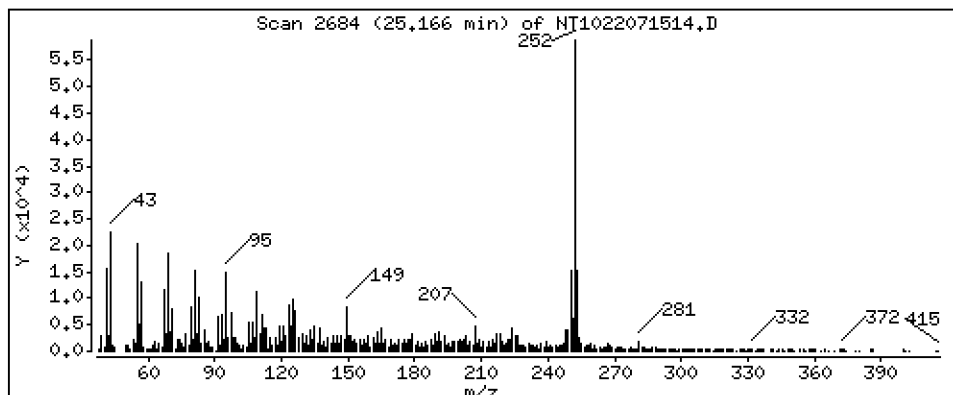
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 35,76 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

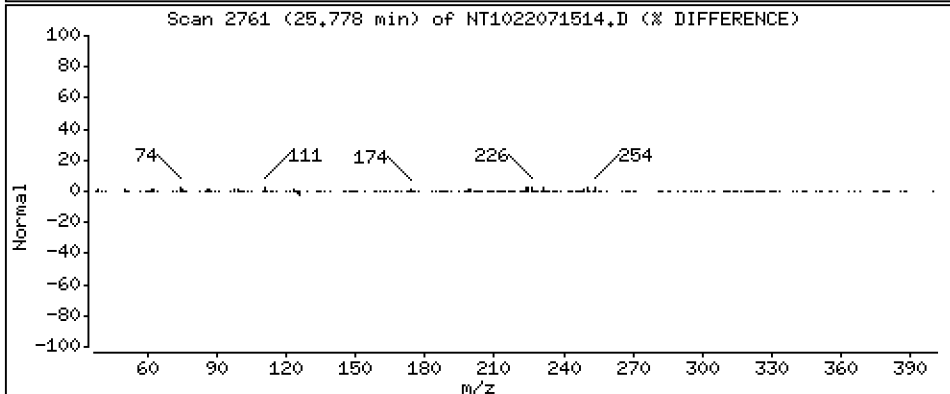
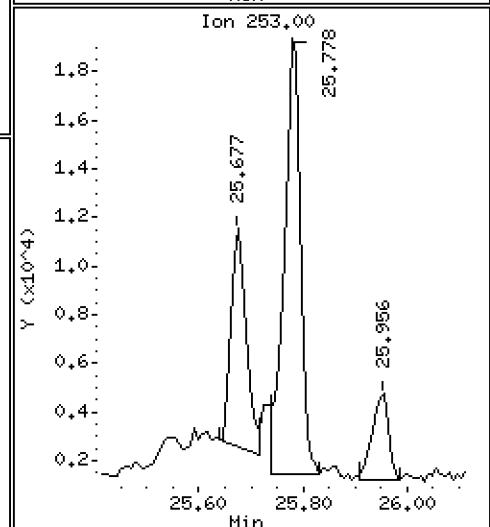
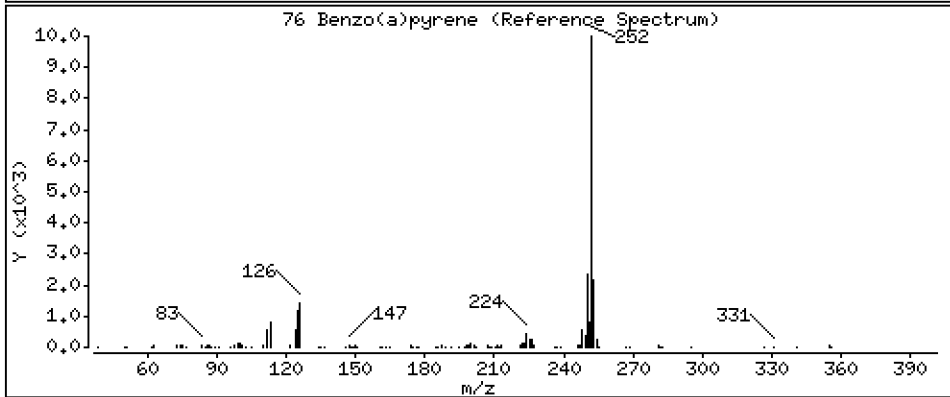
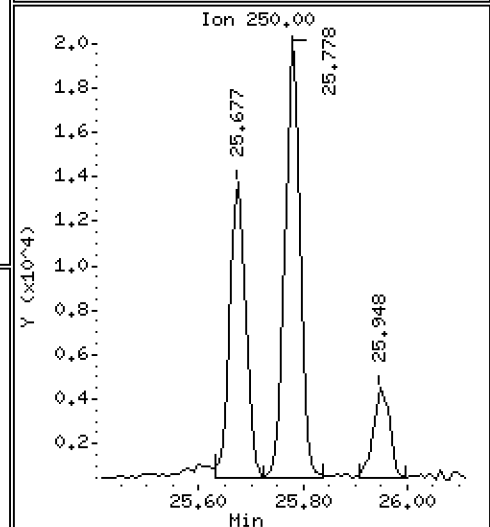
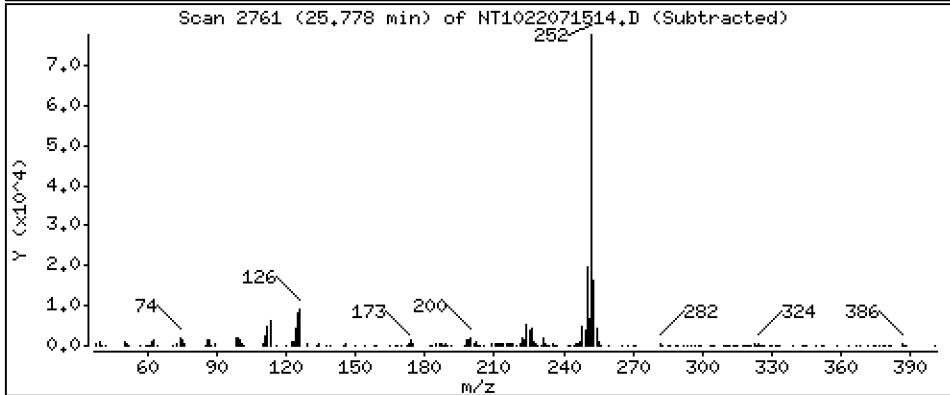
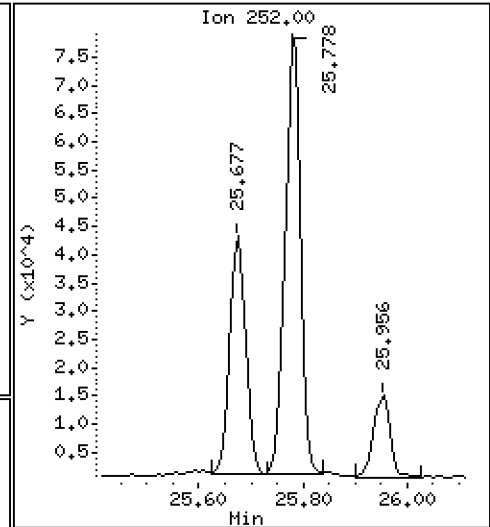
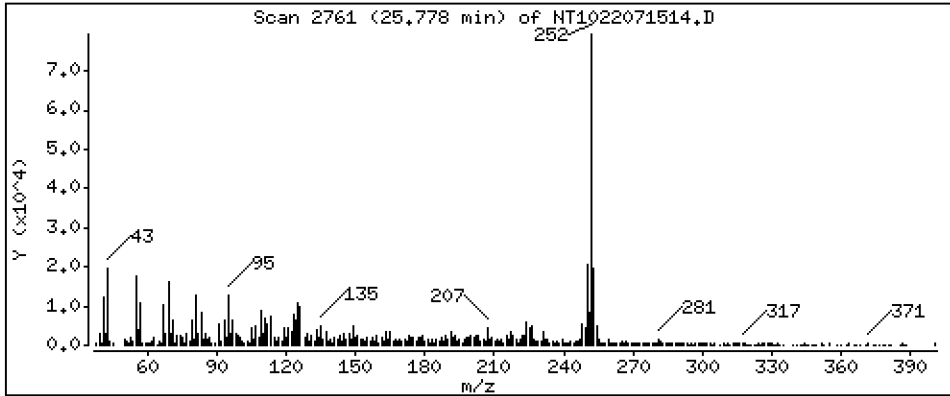
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 51,73 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

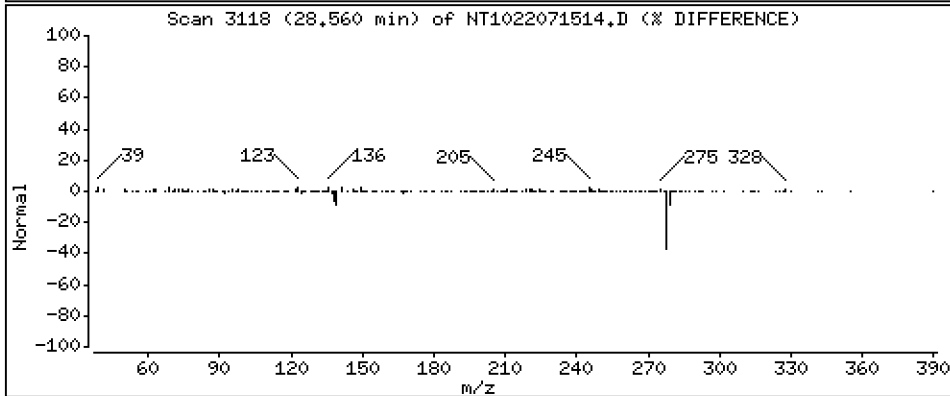
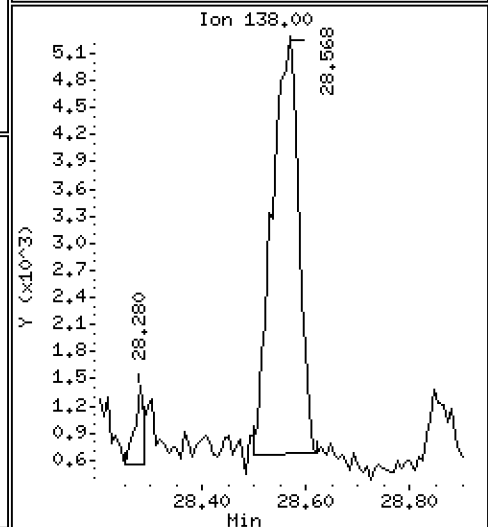
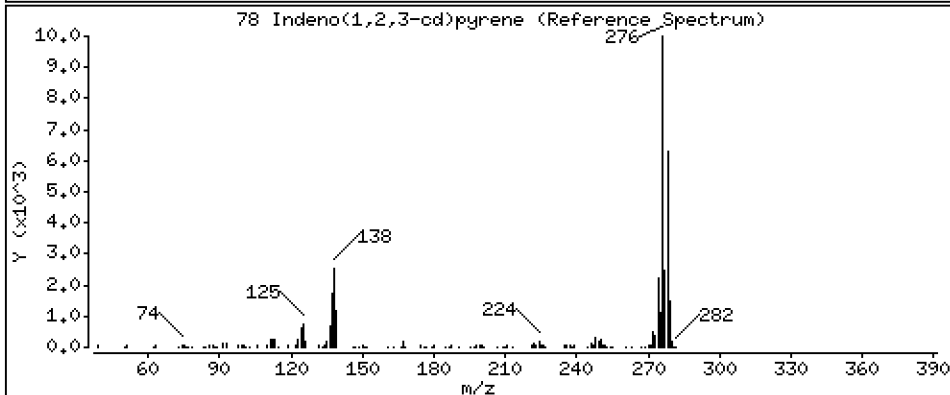
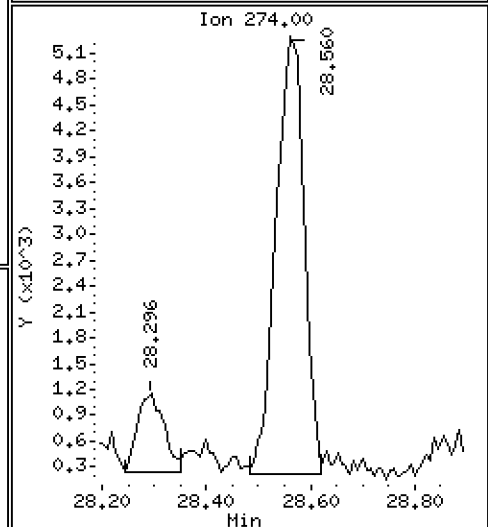
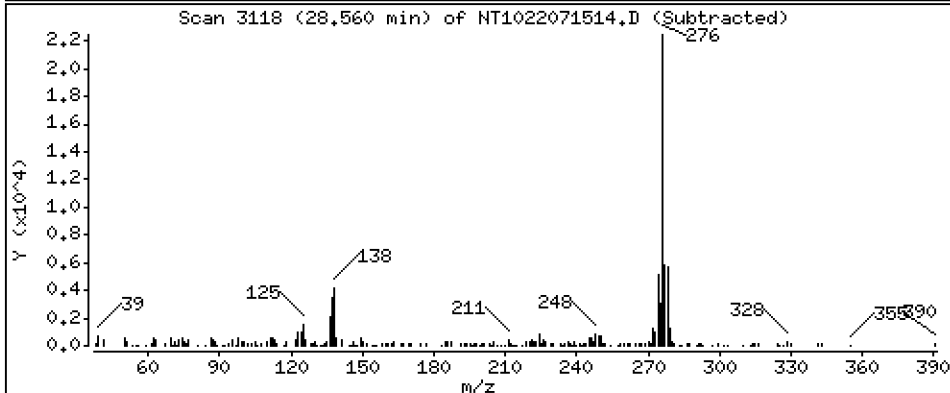
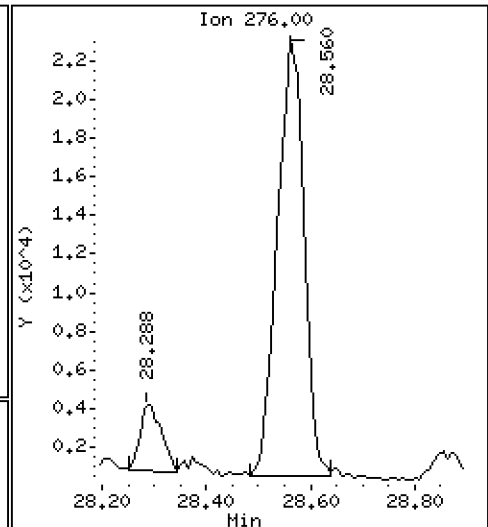
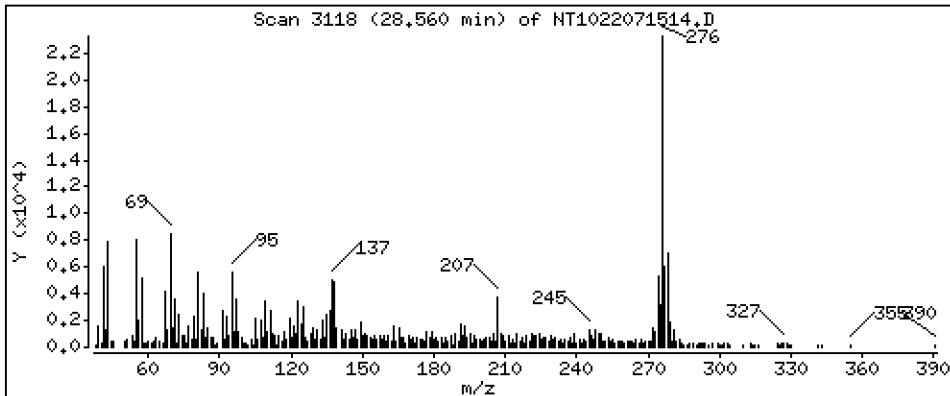
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 24,85 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

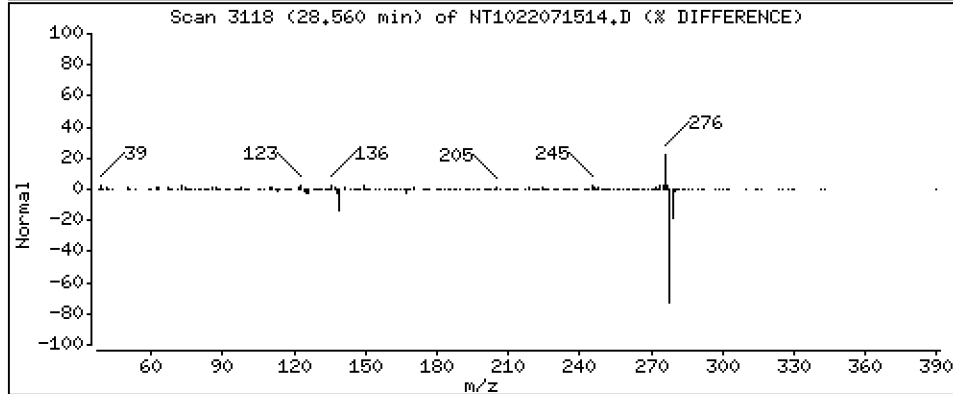
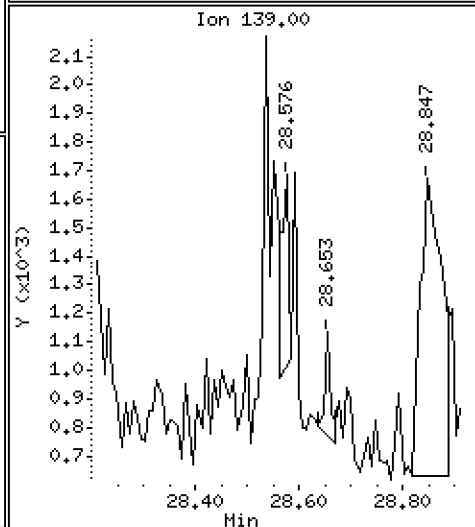
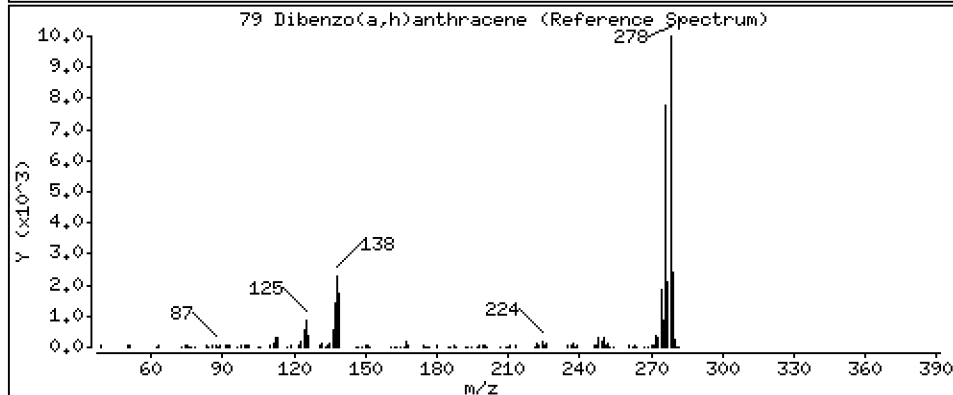
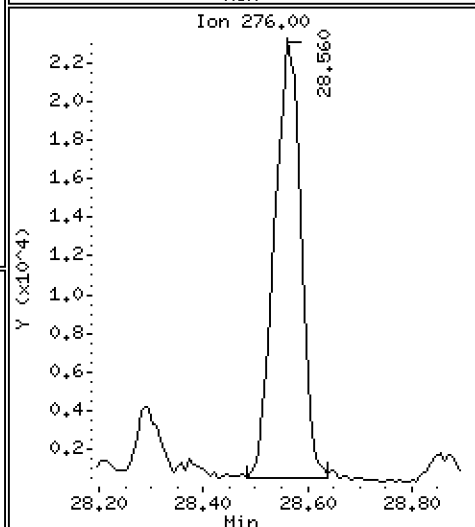
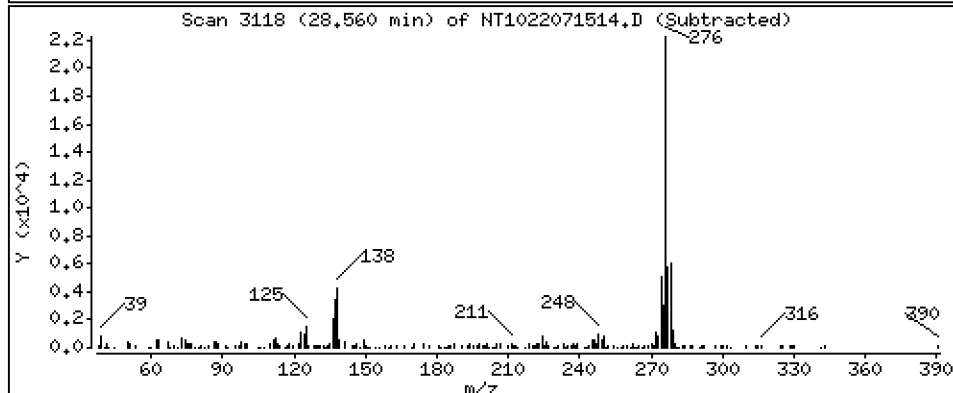
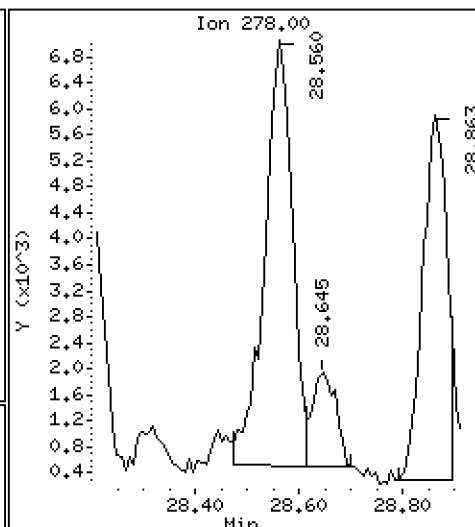
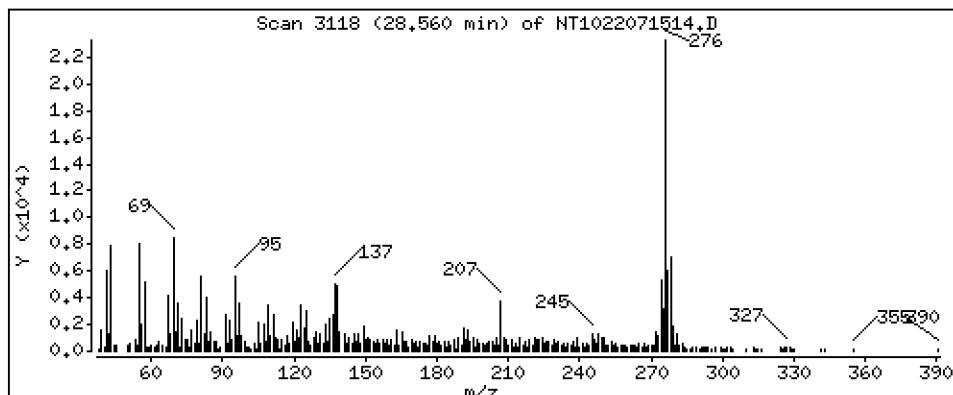
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenz(a,h)anthracene

Concentration: 9,707 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

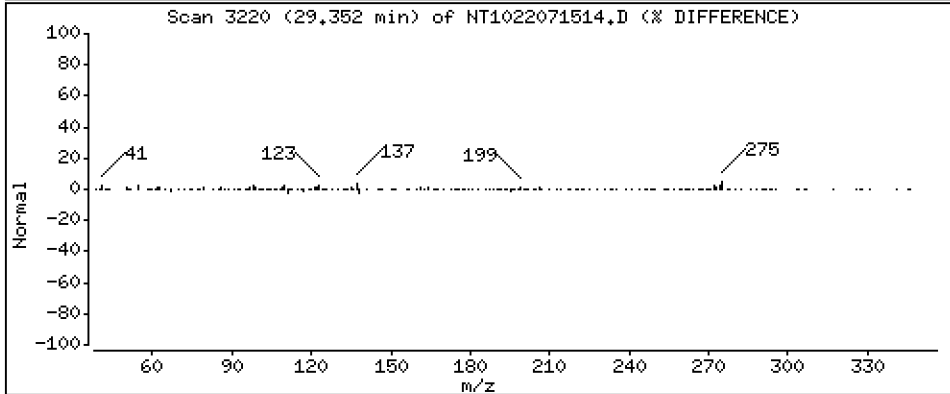
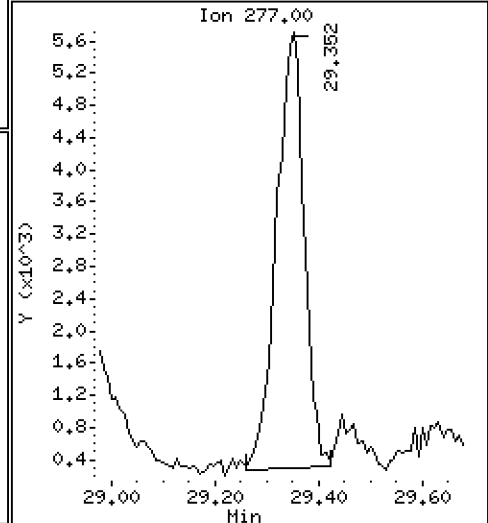
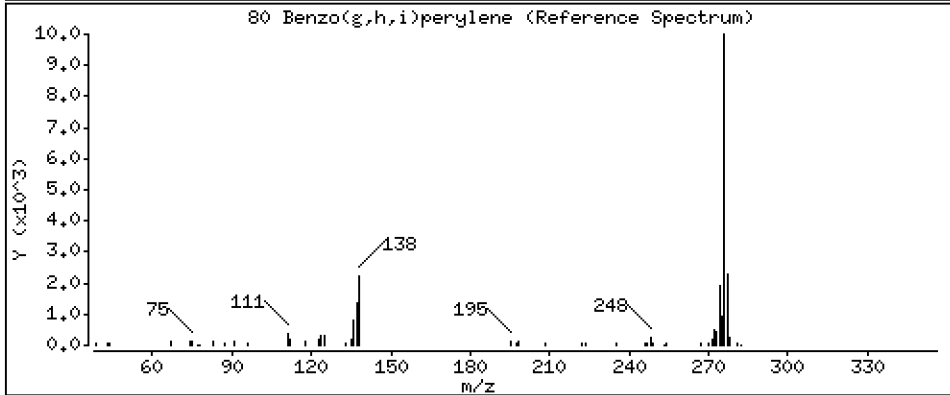
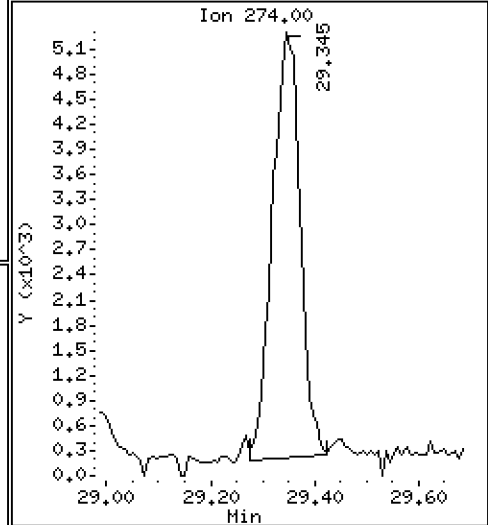
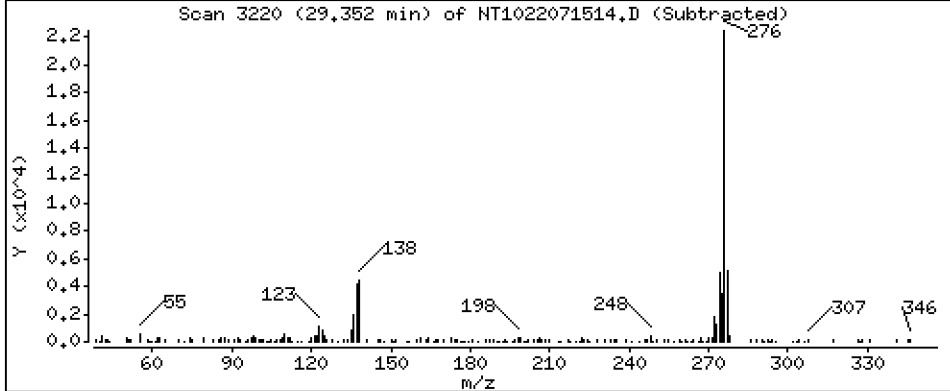
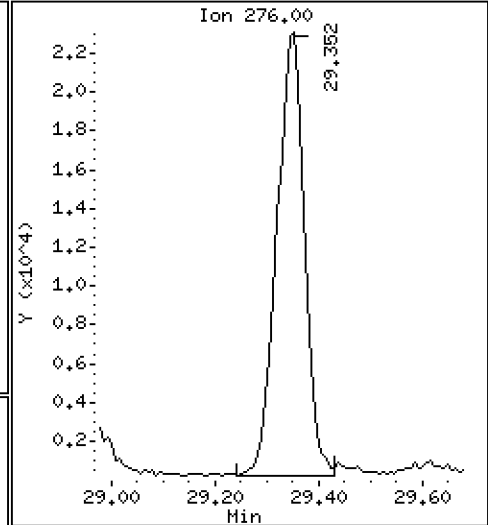
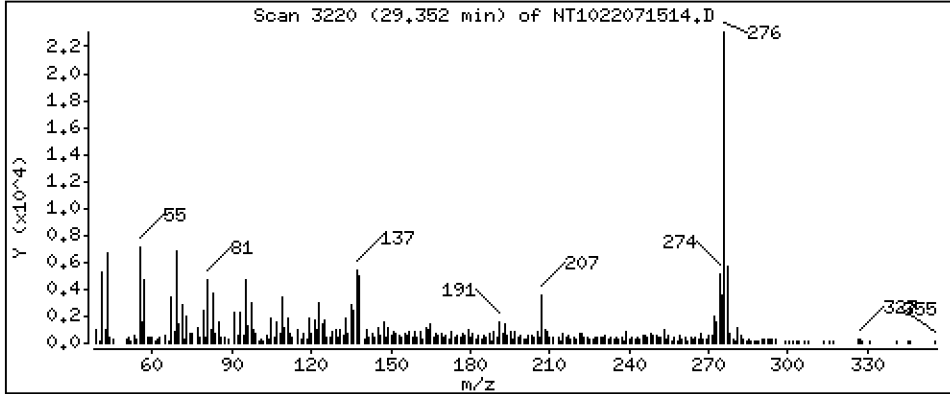
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 32,59 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

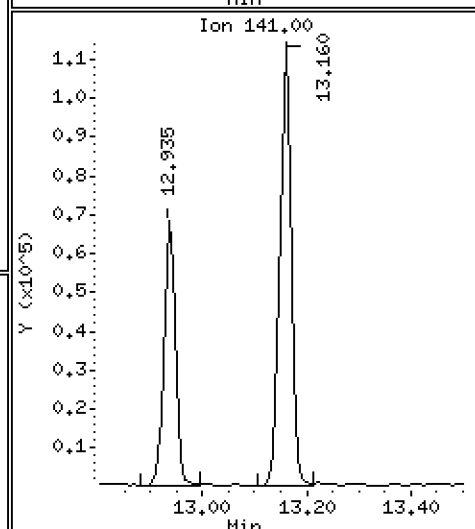
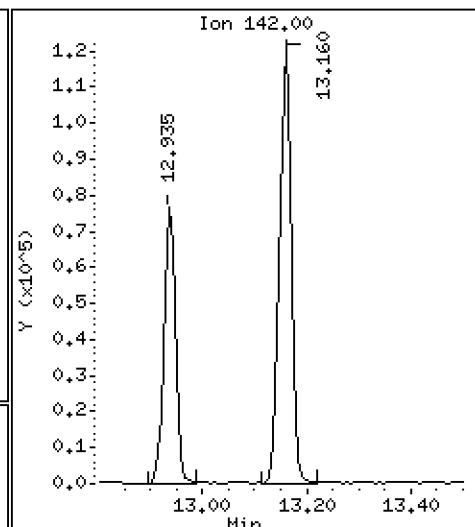
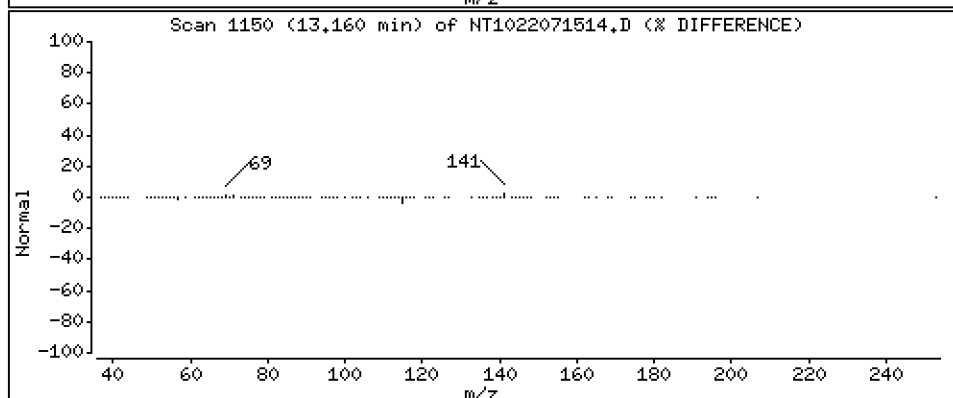
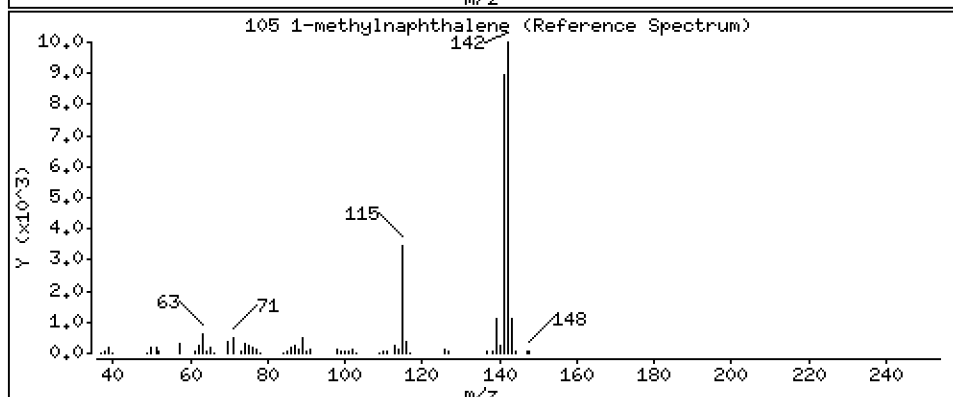
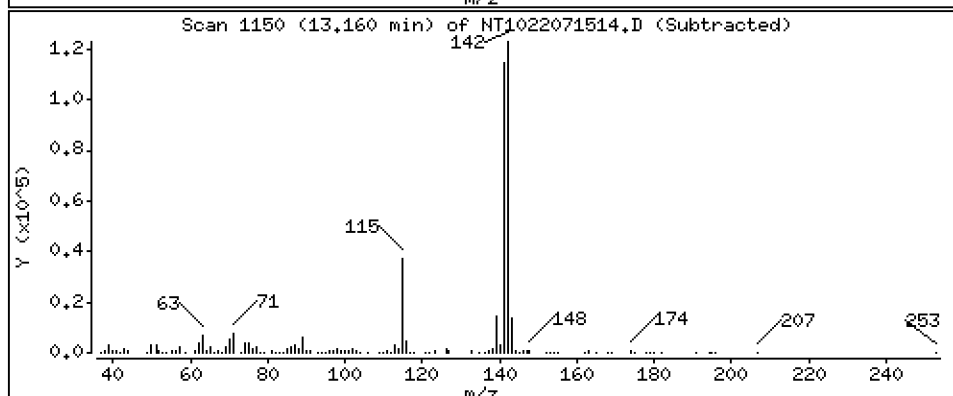
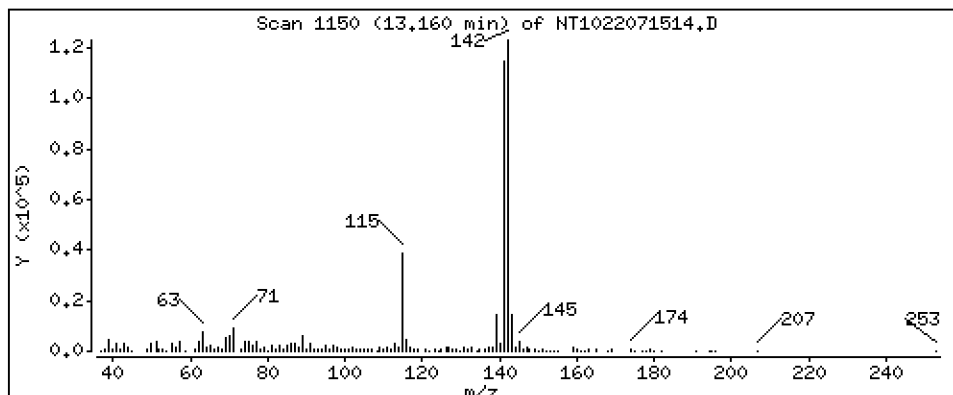
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 8,323 ug/mL



Date : 15-JUL-2022 20:39

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-07RE1,10

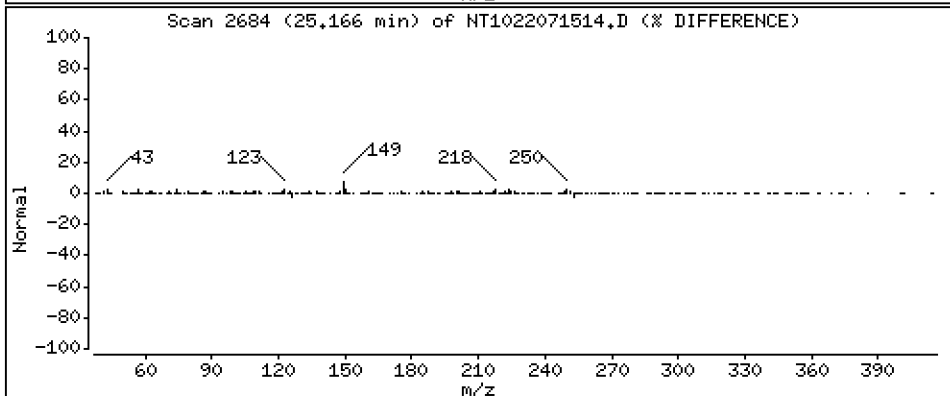
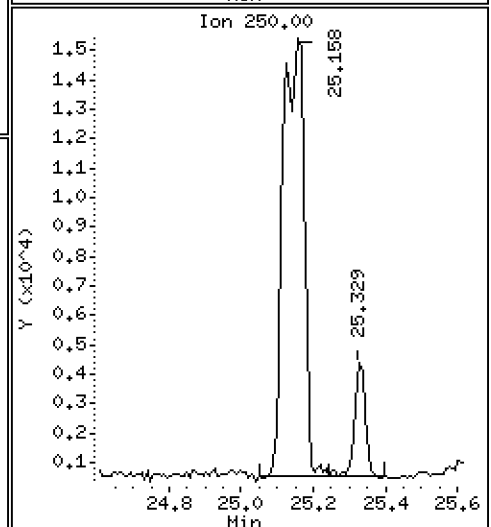
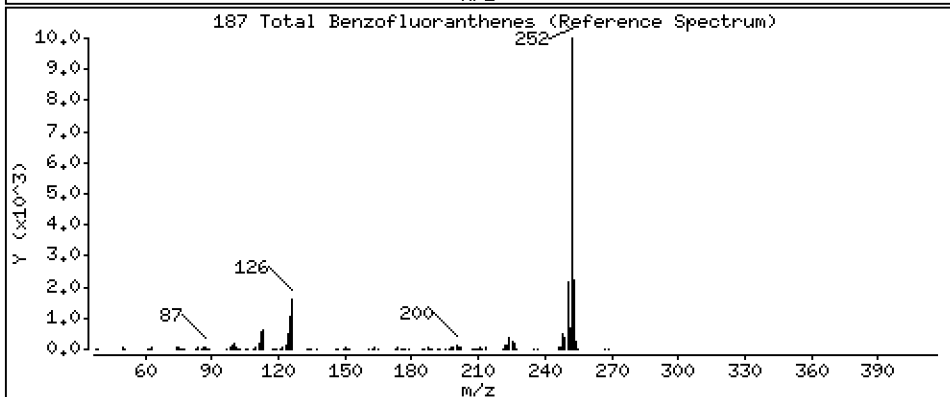
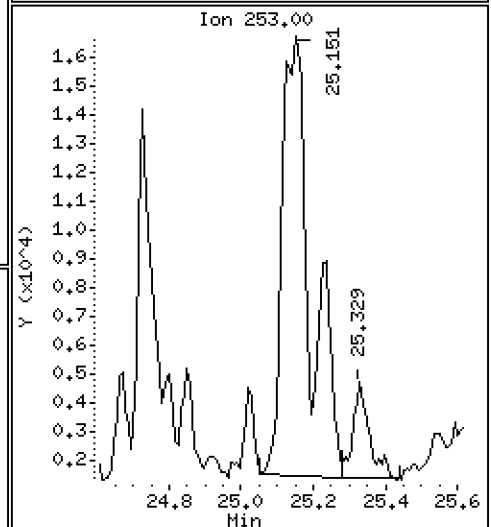
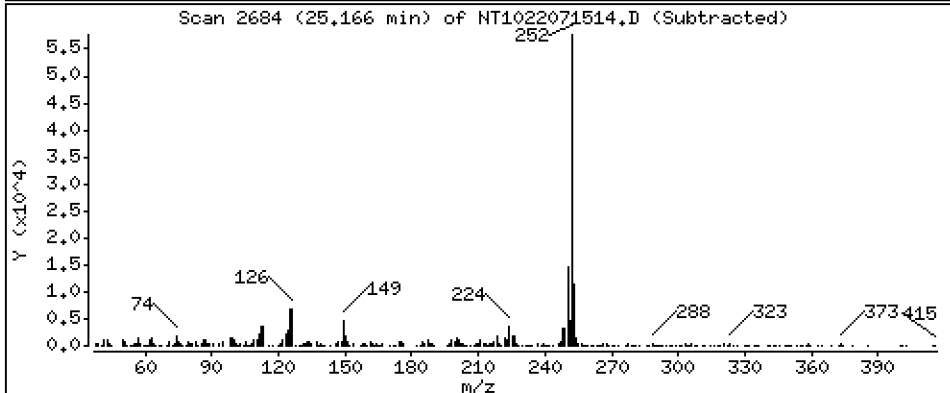
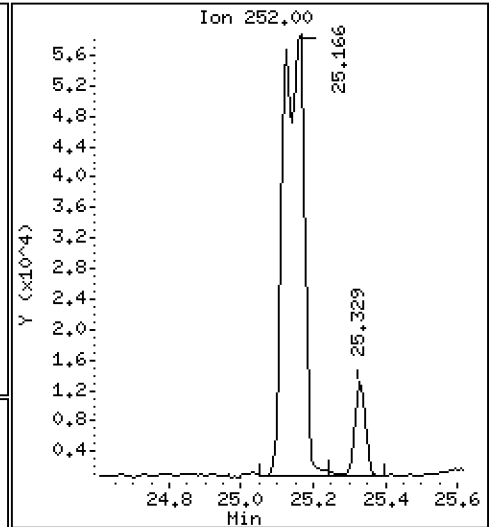
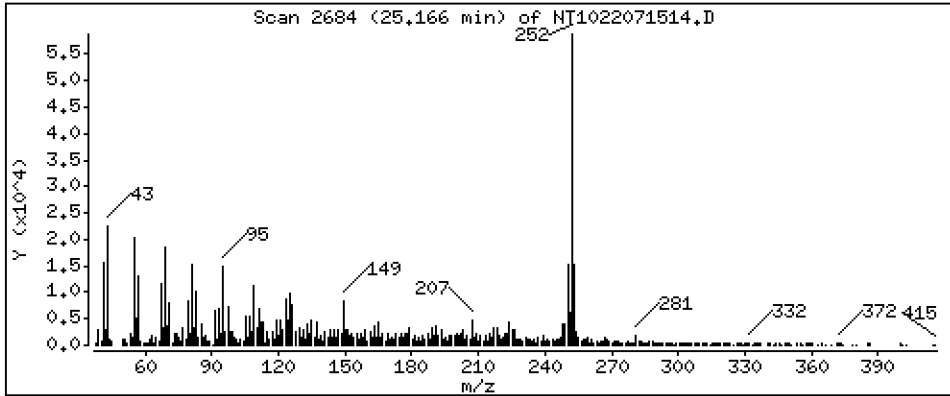
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 66,63 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071514.D
 Lab Smp Id: 22G0019-07RE1
 Inj Date : 15-JUL-2022 20:39
 Operator : VTS
 Smp Info : 22G0019-07RE1,10
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 14
 Dil Factor: 10.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.813	6.806	(0.756)	61368	0.58882	5.888
\$ 2 Phenol-d5	99		8.413	8.398	(0.934)	77755	0.50281	5.028
3 Phenol	94		8.436	8.421	(0.936)	11940	0.08861	0.8861
\$ 5 2-Chlorophenol-d4	132		8.660	8.652	(0.961)	73018	0.68758	6.876
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.009	9.001	(1.000)	285418	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.373	9.366	(1.040)	28669	0.43811	4.381
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		9.544	9.529	(1.059)	3476	0.04184	0.4184
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.816	9.793	(1.090)	10218	0.11508	1.151
\$ 18 Nitrobenzene-d5	82		10.103	10.095	(0.879)	41513	0.43638	4.364
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		10.844	10.836	(0.943)	5958	0.08098	0.8098
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.496	11.488	(1.000)	894029	4.00000	
28 Naphthalene	128		11.535	11.535	(1.003)	266267	1.16370	11.64
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		12.935	12.927	(1.125)	120746	0.53097	5.310
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.716	13.716	(0.907)	99926	0.56940	5.694
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152		14.800	14.800	(0.979)	252551	1.11407	11.14
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.117	15.109	(1.000)	387804	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.179	15.179	(1.004)	210618	1.86745	18.67
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.511	15.511	(1.026)	123052	0.68652	6.865
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		16.230	16.223	(1.074)	308356	1.43976	14.40
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.770	16.762	(1.109)	9564	0.54689	5.469
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.169	18.161	(1.000)	510617	4.00000	
60 Phenanthrene	178		18.215	18.207	(1.003)	2338924	17.4353	174.4
61 Anthracene	178		18.308	18.300	(1.008)	486323	3.40188	34.02
62 Carbazole	167		18.648	18.641	(1.026)	125058	0.94823	9.482
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.621	20.606	(0.887)	1307579	16.2844	162.8
65 Pyrene	202		21.047	21.031	(0.905)	1363921	18.4004	184.0
\$ 66 Terphenyl-d14	244		21.333	21.326	(0.917)	22025	0.64230	6.423
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.223	23.215	(0.999)	213997	5.13947	51.39
* 69 Chrysene-d12	240		23.254	23.246	(1.000)	98262	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.300	23.292	(1.002)	211174	7.07373	70.74
72 bis(2-Ethylhexyl)phthalate	149							
* 134 Di-n-octylphthalate-d4	153		24.314	24.306	(1.000)	191340	4.00000	
73 Di-n-octylphthalate	149		24.330	24.314	(1.001)	4368	0.10044	1.004
74 Benzo(b)fluoranthene	252		25.127	25.112	(0.970)	120426	3.22092	32.21
75 Benzo(k)fluoranthene	252		25.166	25.158	(0.972)	128576	3.57629	35.76 (M)
76 Benzo(a)pyrene	252		25.777	25.762	(0.996)	158309	5.17339	51.73
* 77 Perylene-d12	264		25.894	25.878	(1.000)	82557	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.559	28.544	(1.103)	81180	2.48465	24.85
79 Dibenzo(a,h)anthracene	278		28.559	28.560	(1.103)	24280	0.97073	9.707
80 Benzo(g,h,i)perylene	276		29.352	29.329	(1.134)	85120	3.25912	32.59
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.159	13.151	(1.145)	185953	0.83232	8.323
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.166	25.112	(0.972)	232272	6.66283	66.63	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071514.D Calibration Time: 12:41
 Lab Smp Id: 22G0019-07RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	285418	41.62
27 Naphthalene-d8	649654	324827	1299308	894029	37.62
42 Acenaphthene-d10	370460	185230	740920	387804	4.68
59 Phenanthrene-d10	647298	323649	1294596	510617	-21.12
69 Chrysene-d12	221116	110558	442232	98262	-55.56
134 Di-n-octylphthala	319144	159572	638288	191340	-40.05
77 Perylene-d12	105234	52617	210468	82557	-21.55

<-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.01	0.09
27 Naphthalene-d8	11.49	10.99	11.99	11.50	0.07
42 Acenaphthene-d10	15.11	14.61	15.61	15.12	0.05
59 Phenanthrene-d10	18.16	17.66	18.66	18.17	0.04
69 Chrysene-d12	23.25	22.75	23.75	23.25	0.03
134 Di-n-octylphthala	24.31	23.81	24.81	24.31	0.03
77 Perylene-d12	25.88	25.38	26.38	25.89	0.06

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

REVIEW SUMMARY FOR FILE - NT1022071514.D

Lab ID: 22G0019-07RE1
nt10.i, ABN.m, 15-JUL-2022 20:39

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE			

RRT check based on Ccal File: NT1022071502.D

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

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

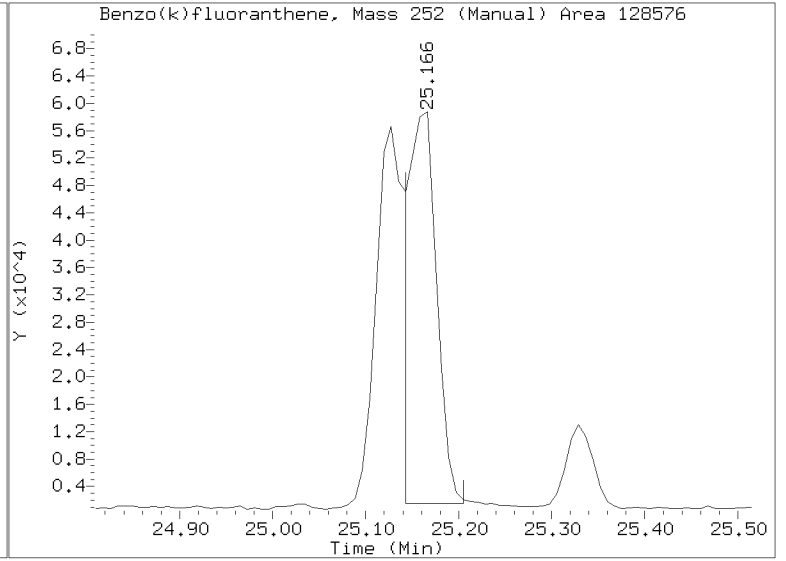
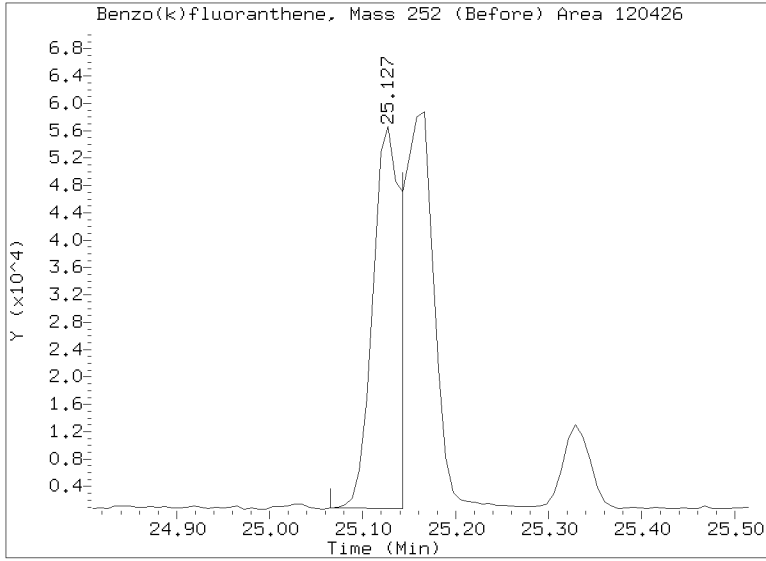
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071514.D

Injection Date: 15-JUL-2022 20:39

Lab ID: 22G0019-07RE1 Client ID:

Report Date: 07/16/2022 09:03





Form I
ORGANIC ANALYSIS DATA SHEET

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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-08 A

SDG: 22G0019

Sampled: 06/28/22 12:15

Prepared: 07/07/22 10:01

File ID: NT1022071414.D

% Solids: 57.29

Preparation: EPA 3546 (Microwave)

Analyzed: 07/14/22 22:09

Batch: BKG0069

Sequence: SKG0139

Initial/Final: 17.49 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	3	4080	D	12.7	59.9
91-57-6	2-Methylnaphthalene	3	745	D	13.5	59.9
83-32-9	Acenaphthene	3	3020	D	15.6	59.9
87-86-5	Pentachlorophenol	3	93.6	U	93.6	299
85-01-8	Phenanthrene	3	25000	D, E	26.1	59.9
206-44-0	Fluoranthene	3	10100	Q, D, E	18.2	59.9
56-55-3	Benzo(a)anthracene	3	12300	D, E	17.8	59.9
218-01-9	Chrysene	3	7260	D, E	18.1	59.9
205-99-2	Benzo(b)fluoranthene	3	9100	D, E	21.0	59.9
207-08-9	Benzo(k)fluoranthene	3	6900	D, E	15.0	59.9
50-32-8	Benzo(a)pyrene	3	12500	D, E	12.7	59.9
193-39-5	Indeno(1,2,3-cd)pyrene	3	3630	D	43.9	59.9
53-70-3	Dibenzo(a,h)anthracene	3	1360	D	51.6	59.9
90-12-0	1-Methylnaphthalene	3	583	D	15.7	59.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.50	403	53.9	27 - 120	
Phenol-d5	748.50	309	41.3	29 - 120	
2-Chlorophenol-d4	748.50	487	65.0	31 - 120	
1,2-Dichlorobenzene-d4	499.00	367	73.5	32 - 120	
Nitrobenzene-d5	499.00	266	53.3	30 - 120	
2-Fluorobiphenyl	499.00	481	96.3	35 - 120	
2,4,6-Tribromophenol	748.50	918	123	24 - 134	
p-Terphenyl-d14	499.00	514	103	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220714.6\NT1022071414.D
Date: 14-JUL-2022 22:09
Client ID:
Sample Info: 2200019-08.3

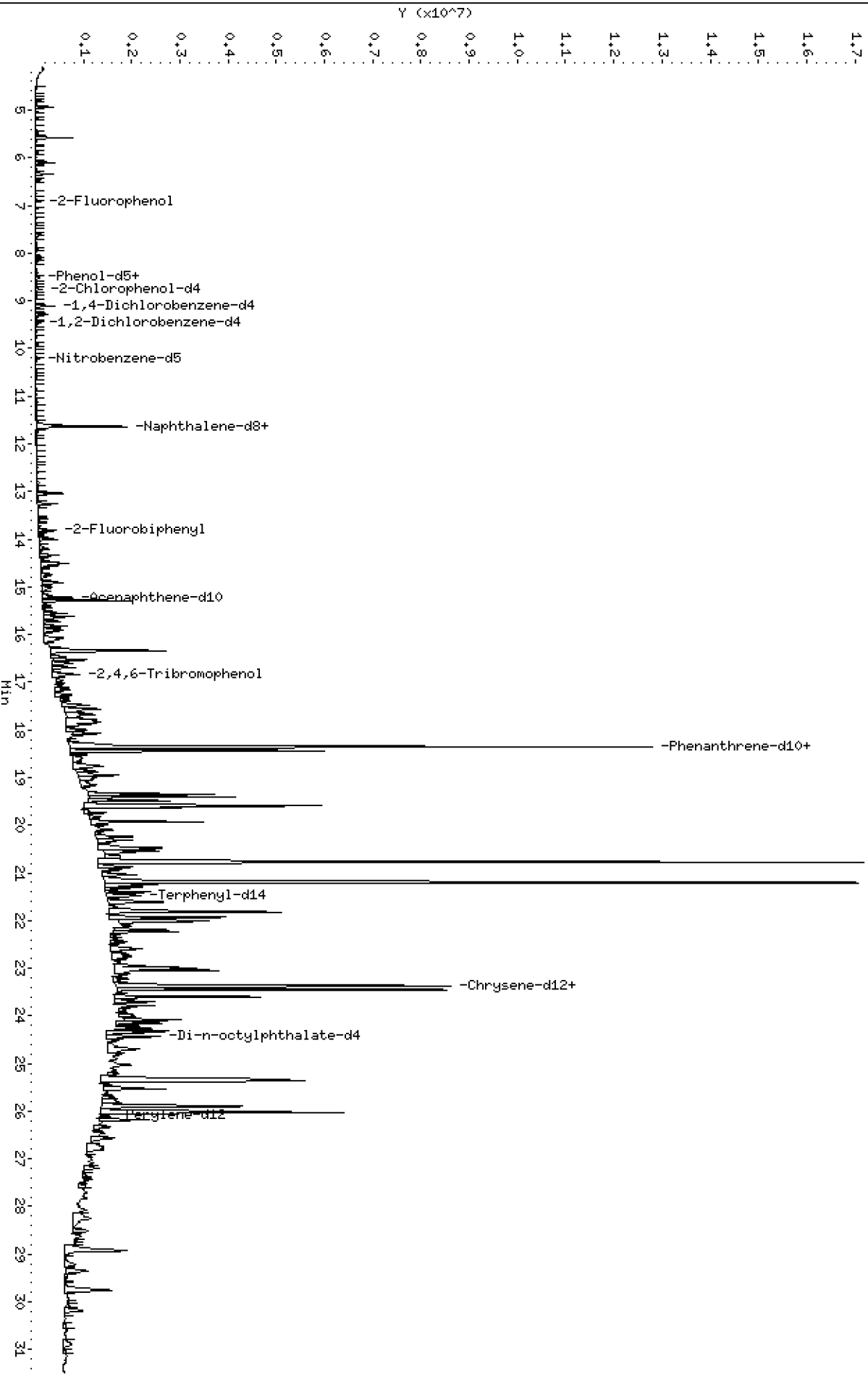
Instrument: nt10.1

Page 1

Column phase: ZB-5msi

Operator: VTS
Column diameter: 0.25

\\target\share\chem3\nt10.1\20220714.6\NT1022071414.D



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

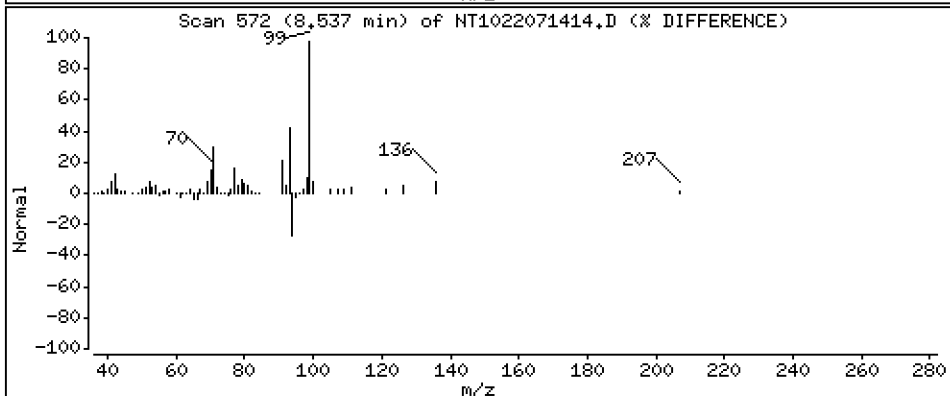
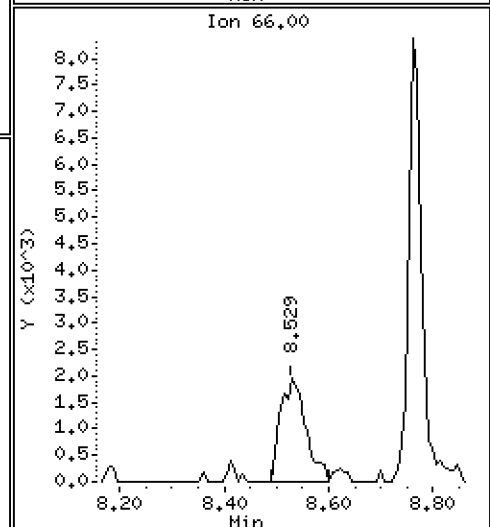
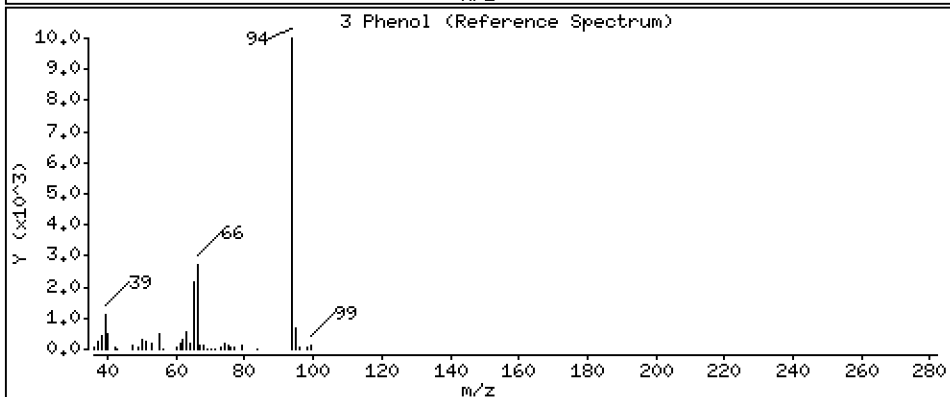
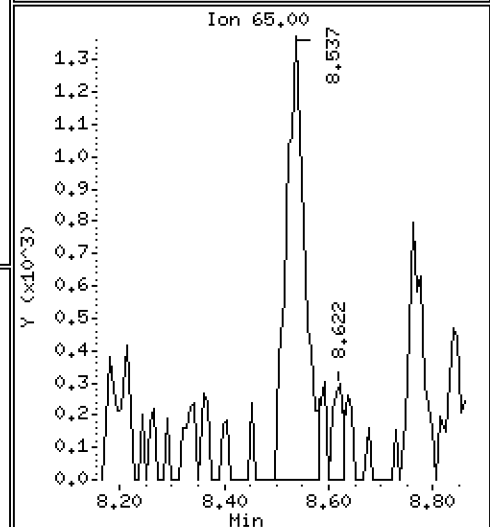
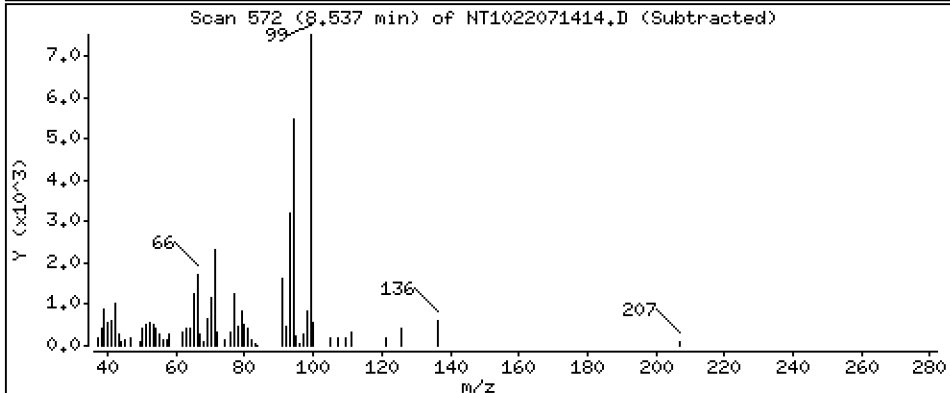
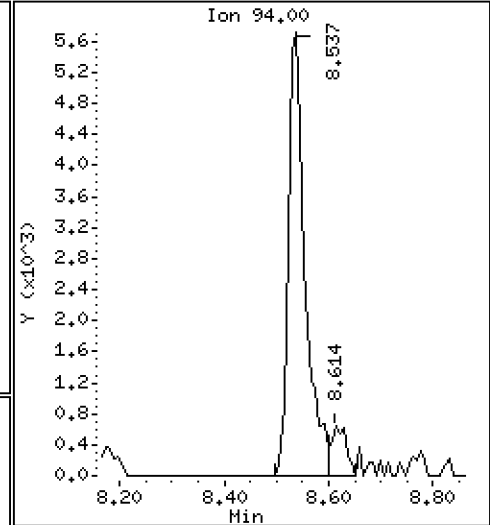
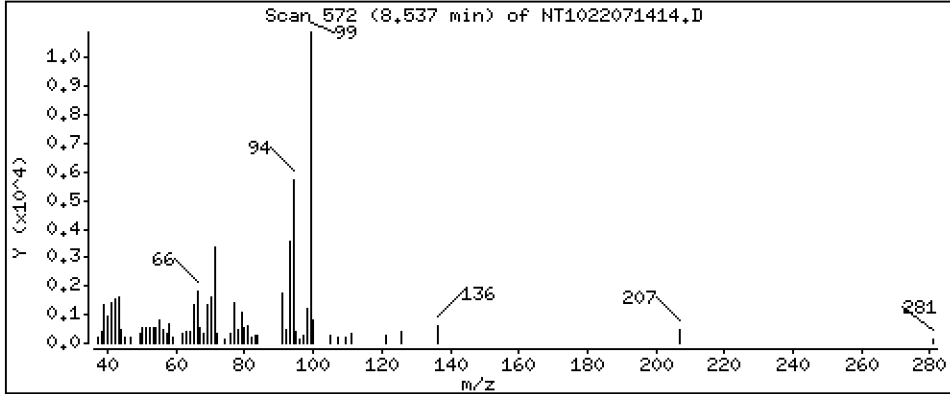
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,6107 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

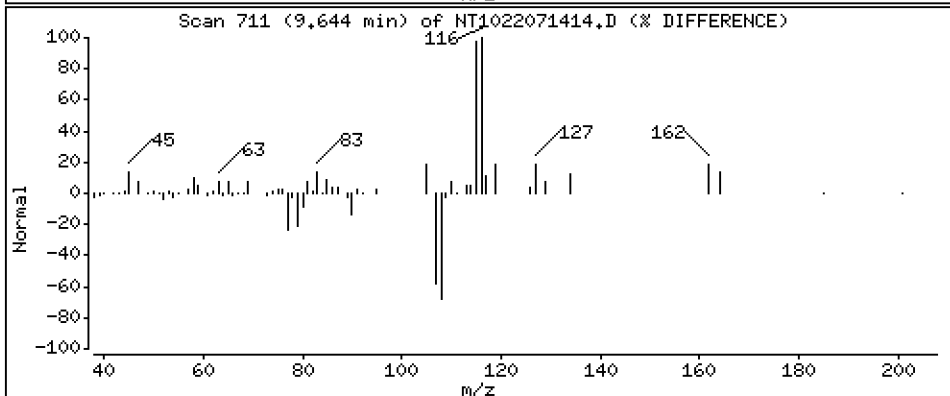
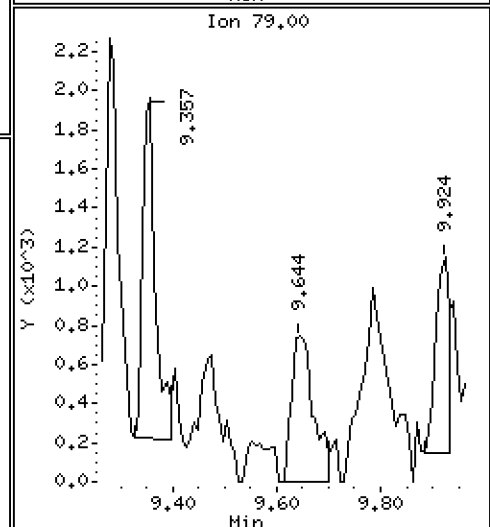
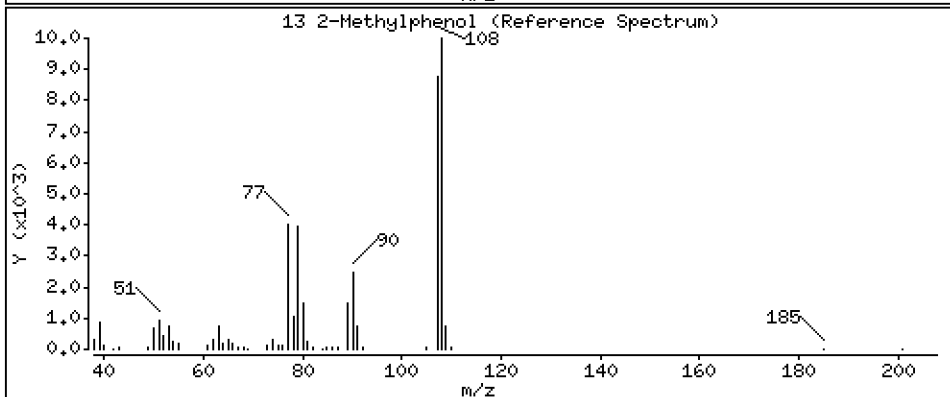
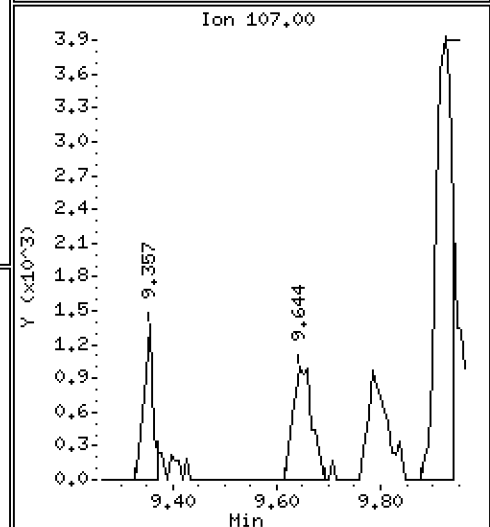
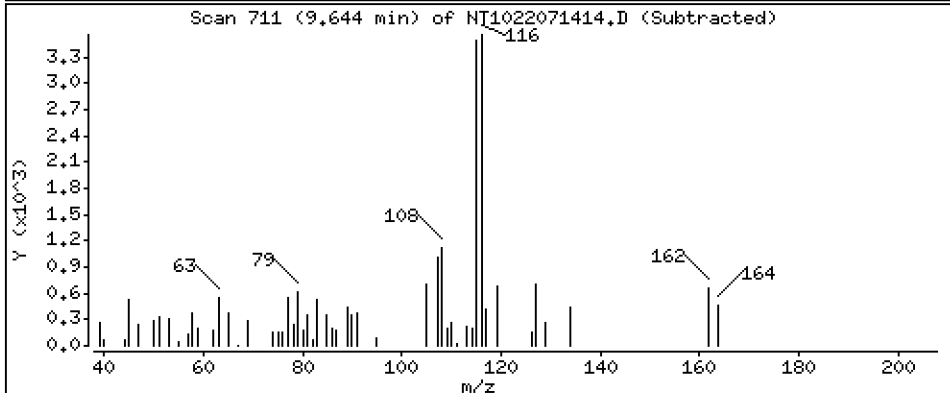
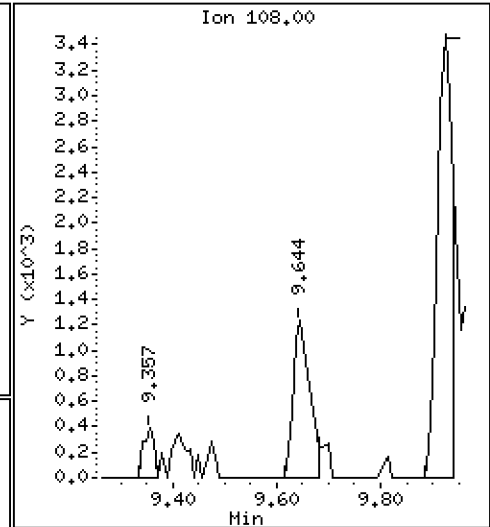
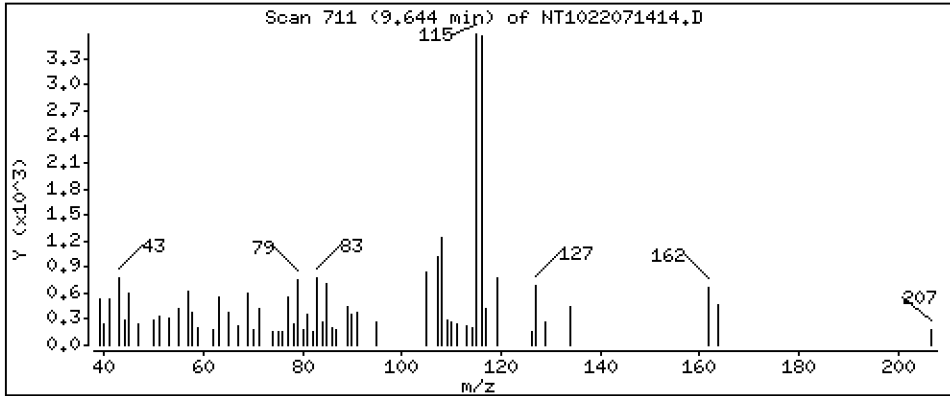
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,2160 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08,3

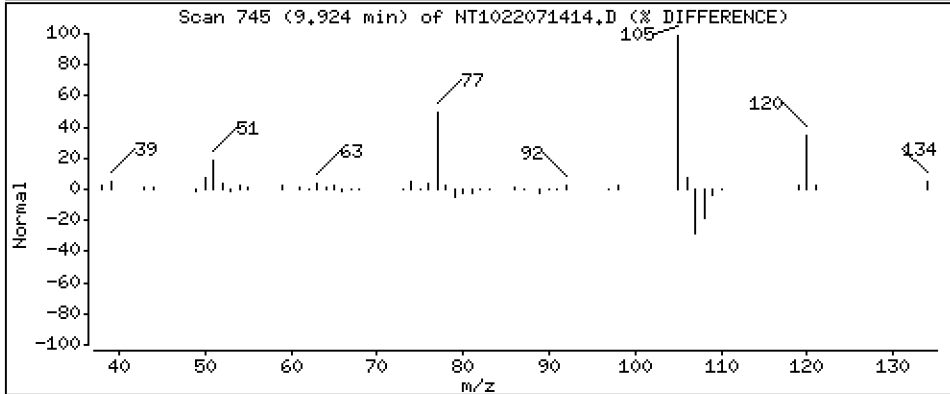
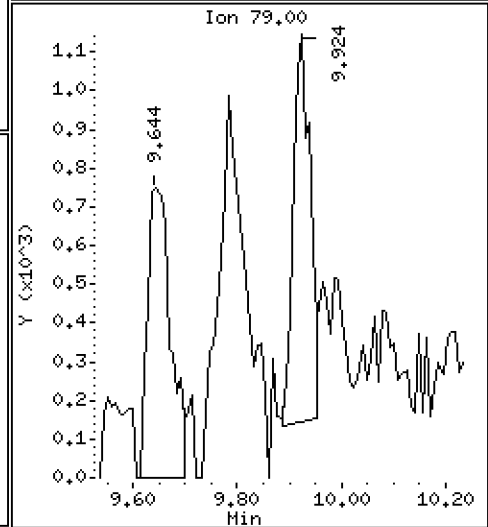
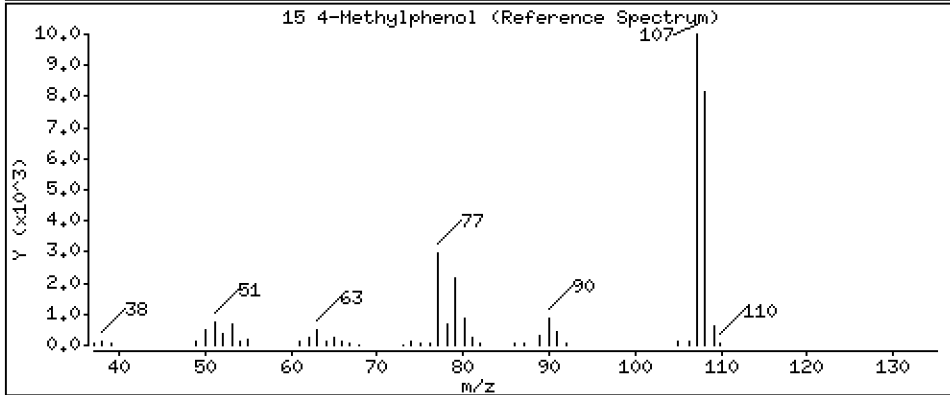
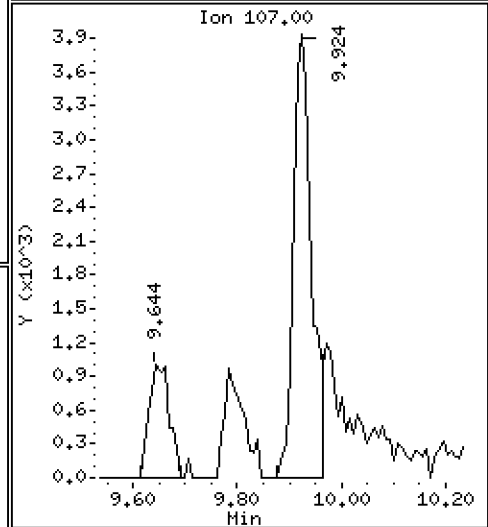
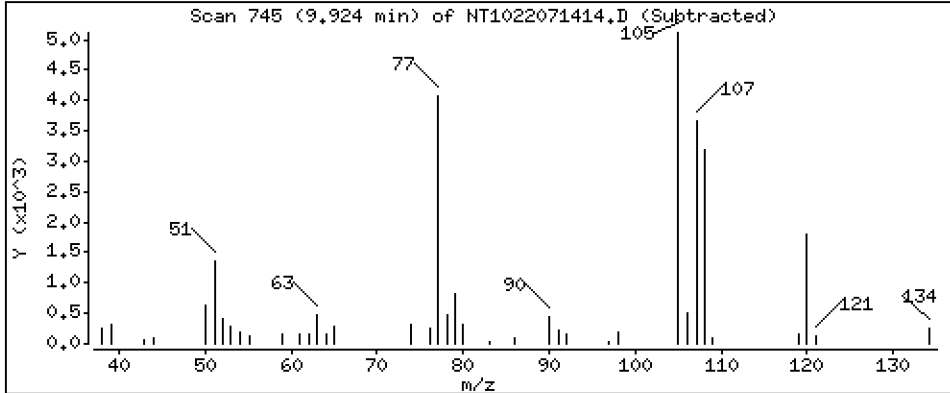
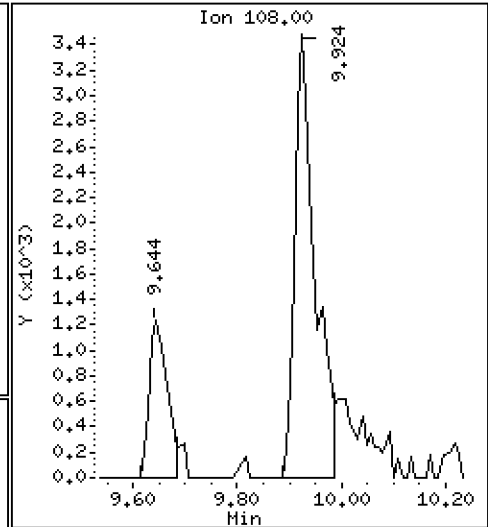
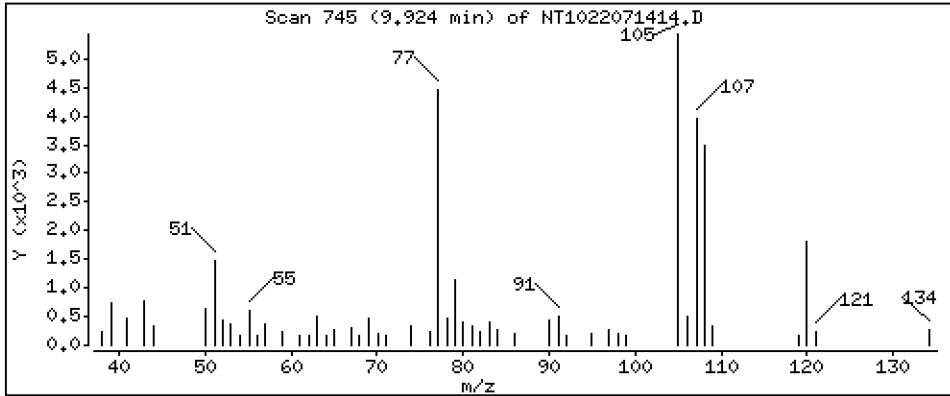
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,6794 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08,3

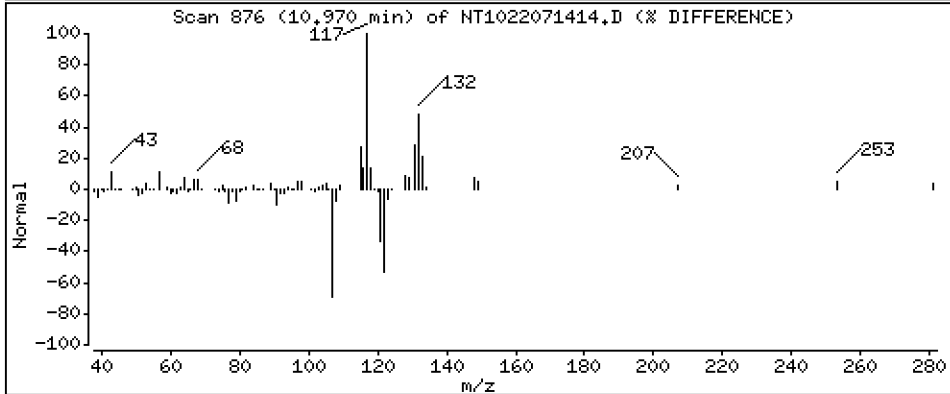
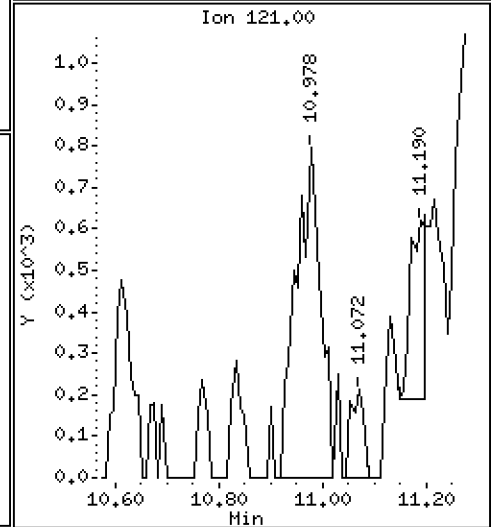
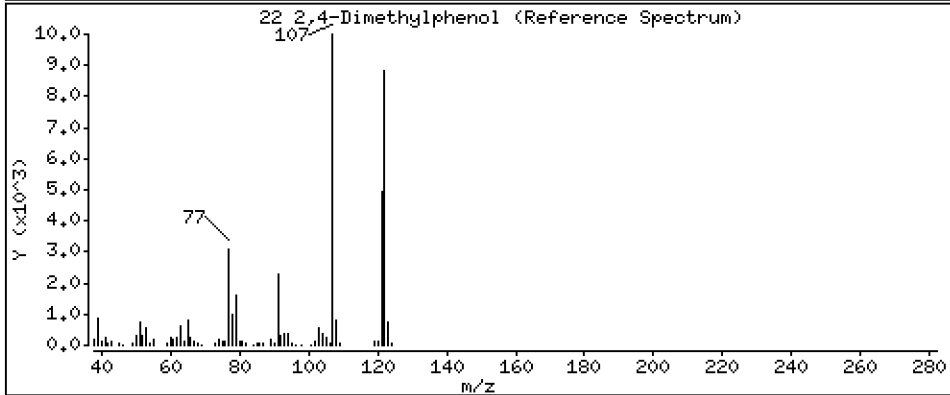
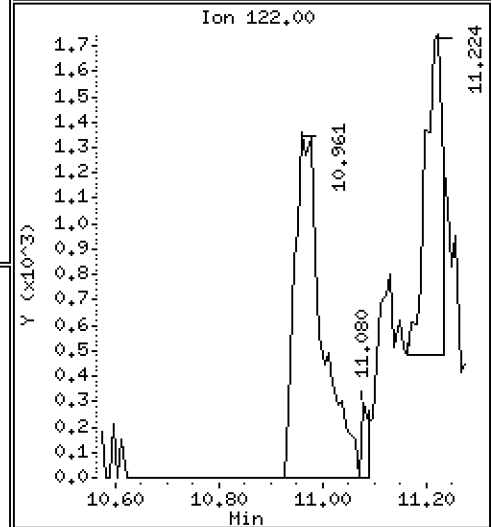
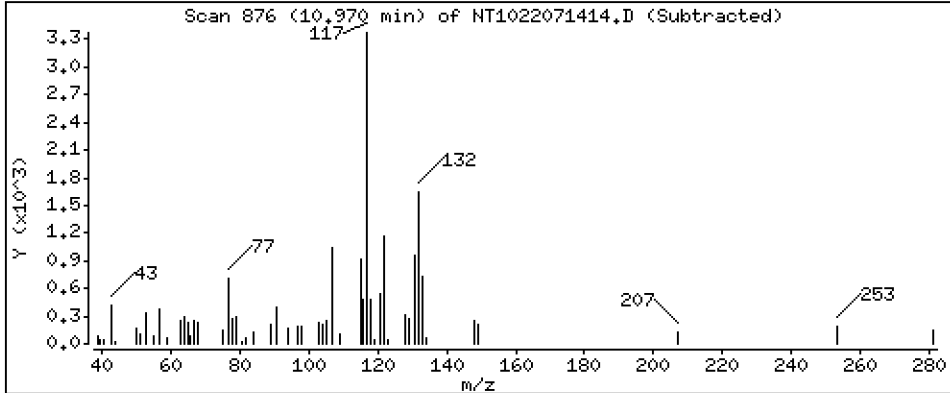
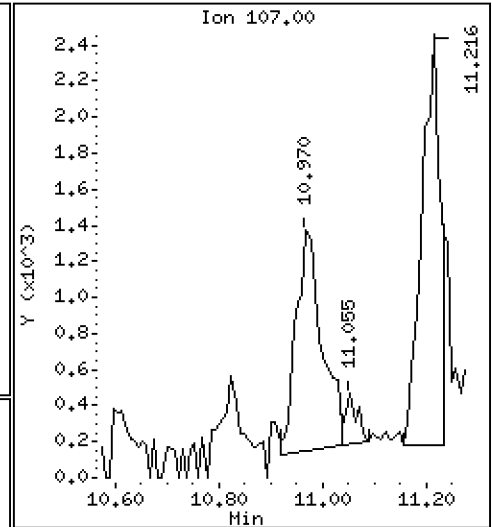
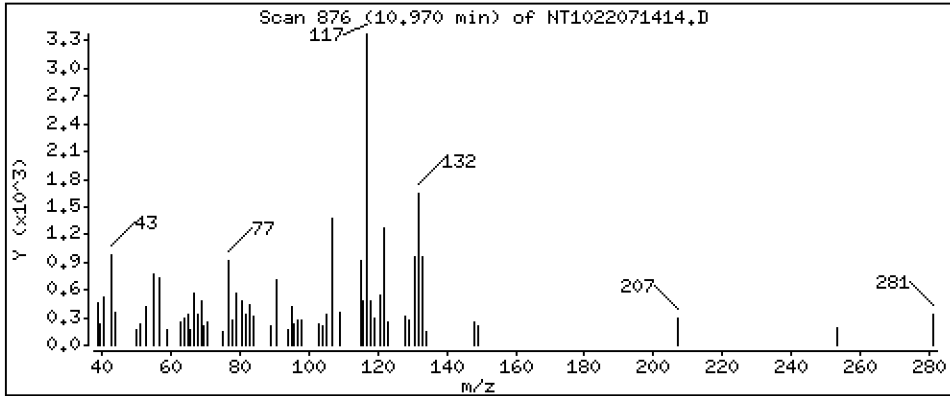
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,3215 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

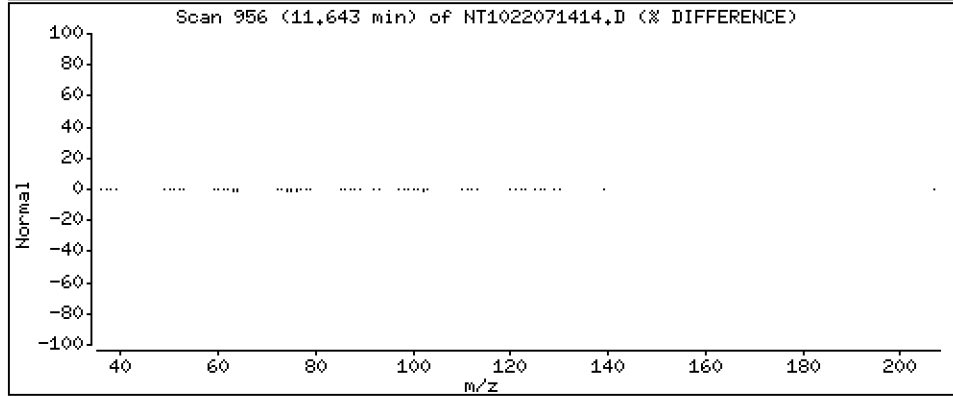
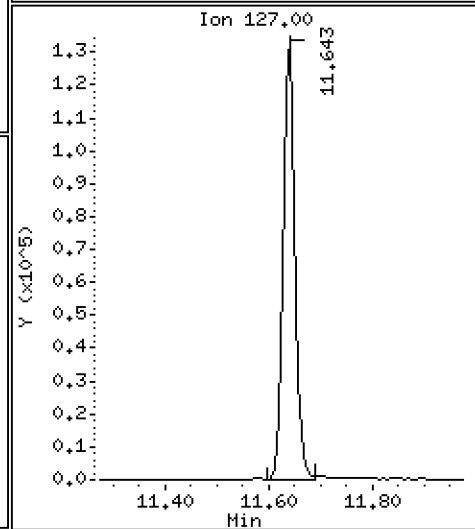
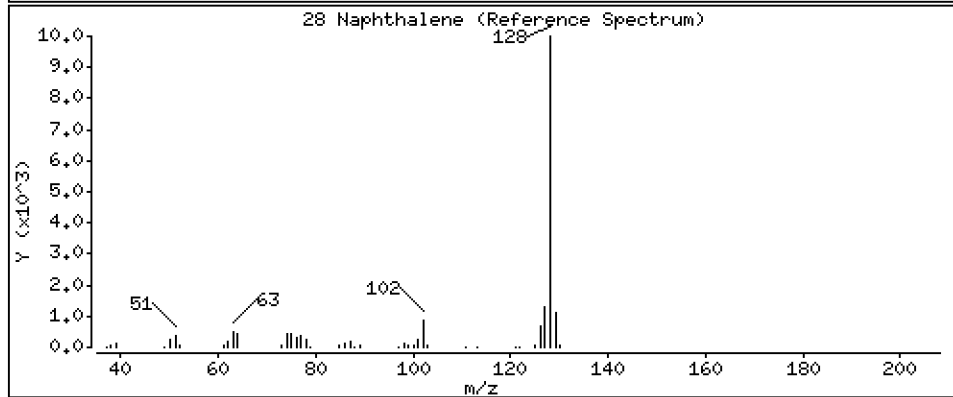
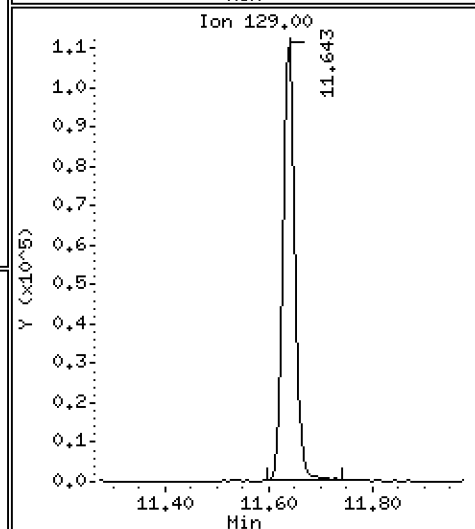
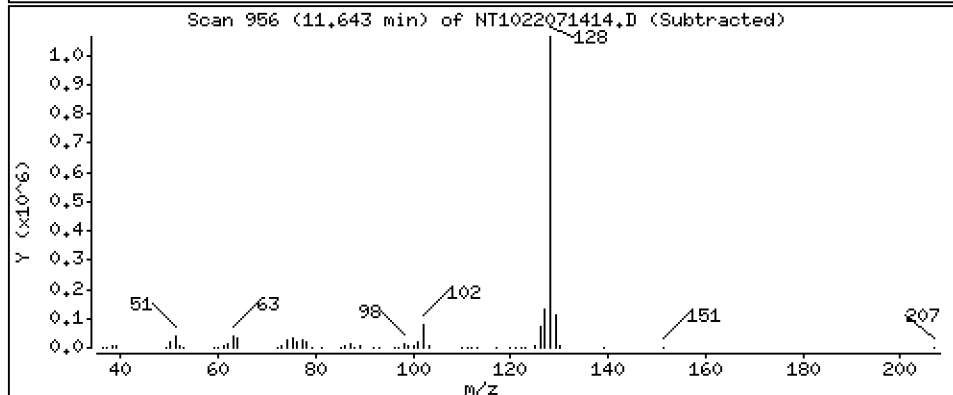
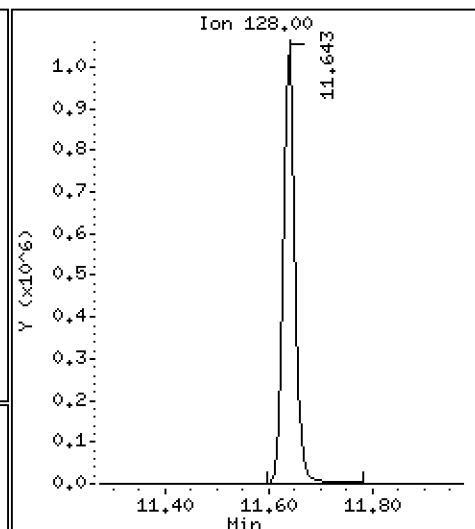
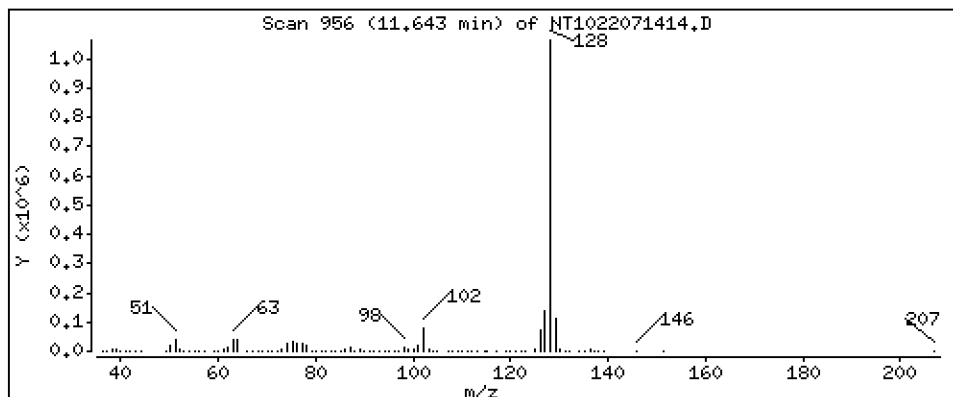
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 40,86 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08,3

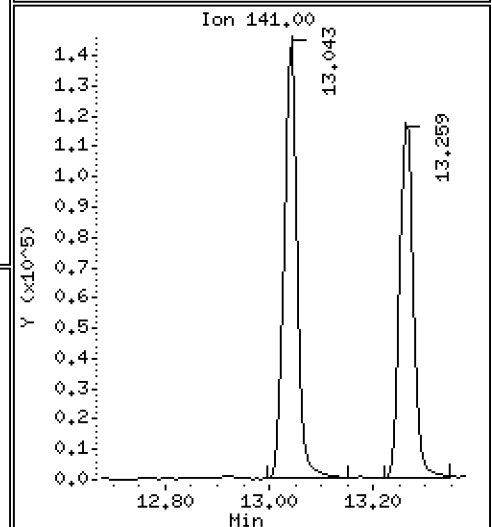
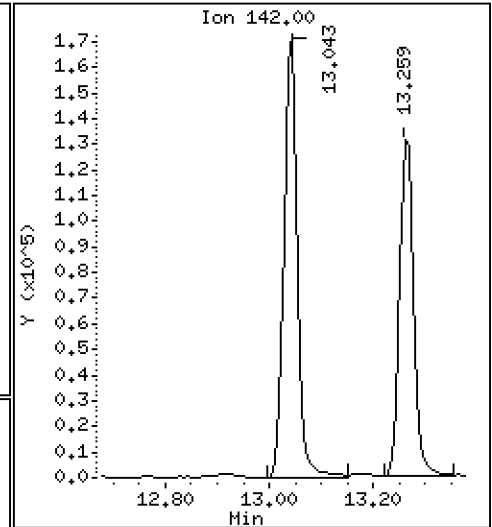
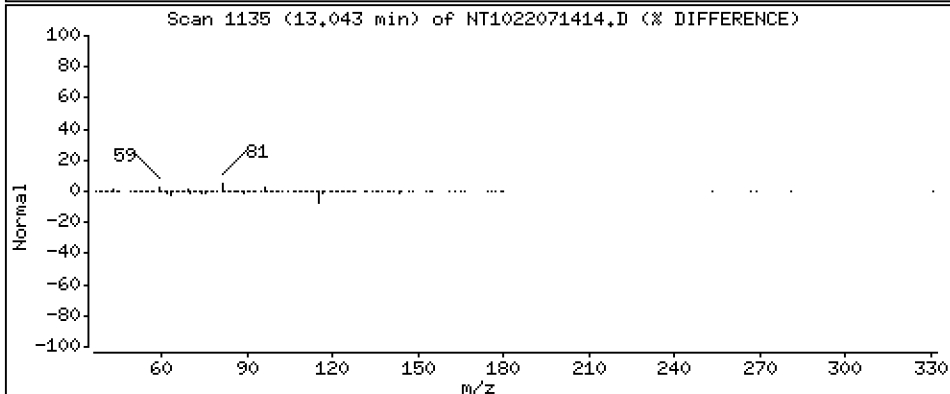
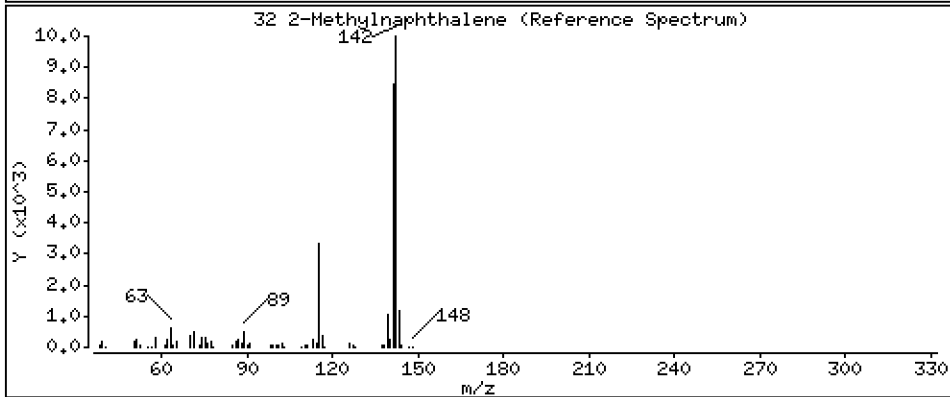
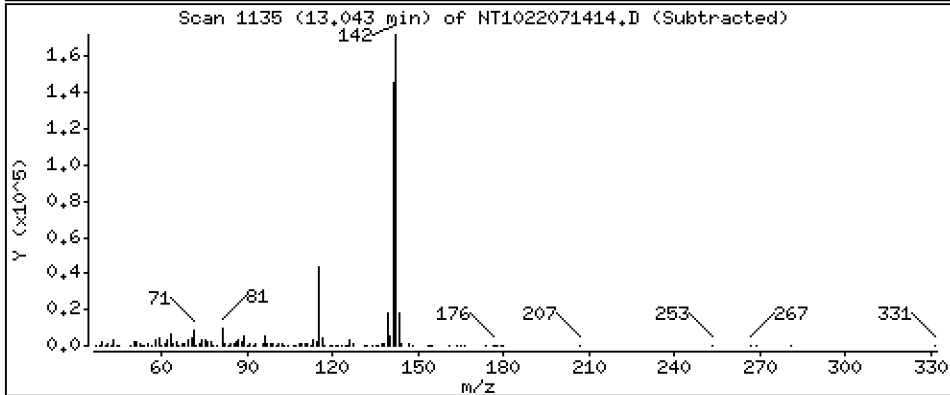
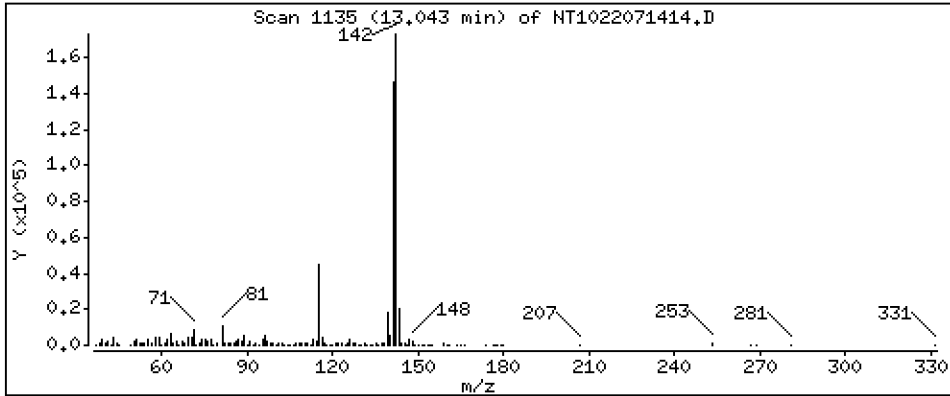
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 7,464 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

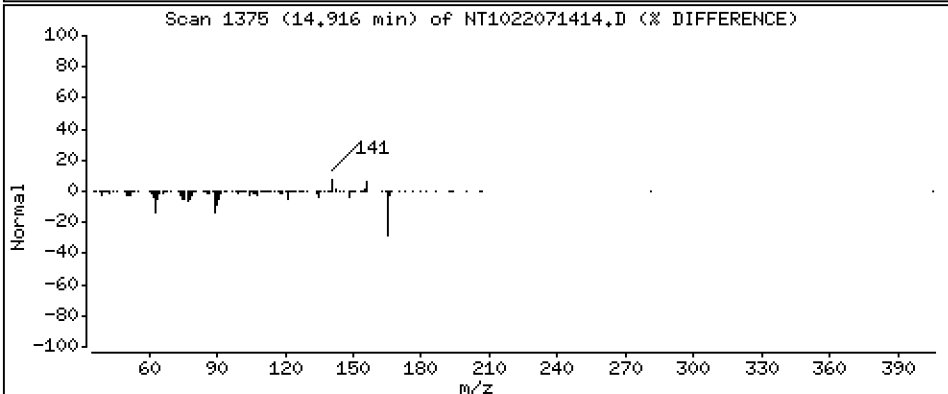
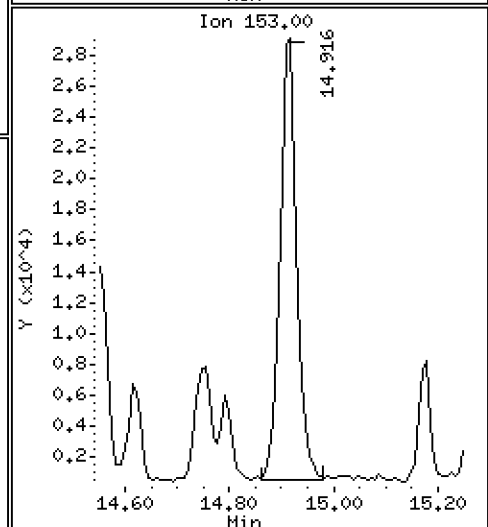
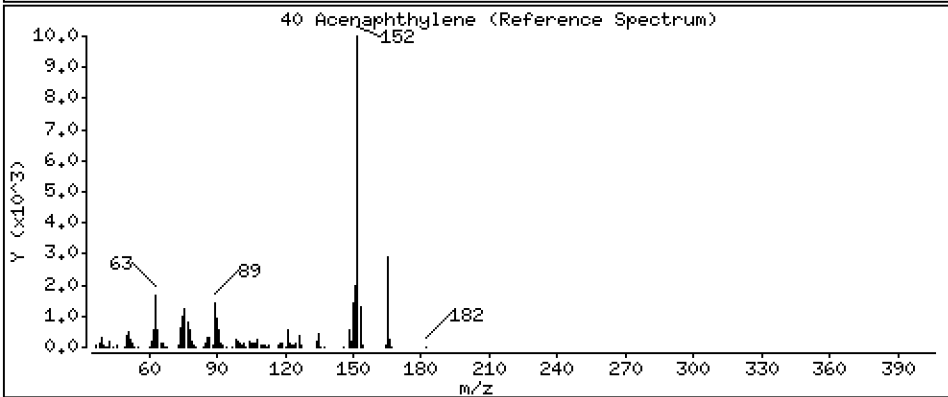
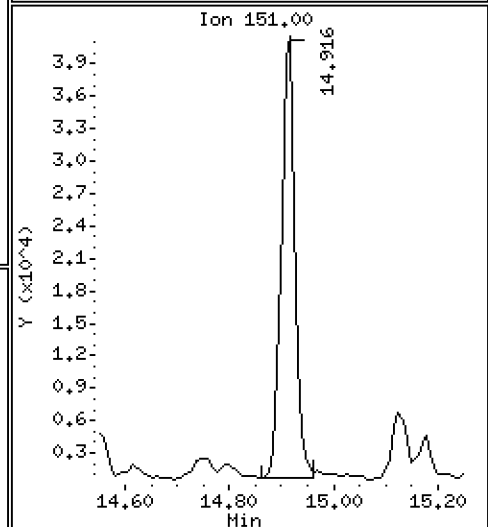
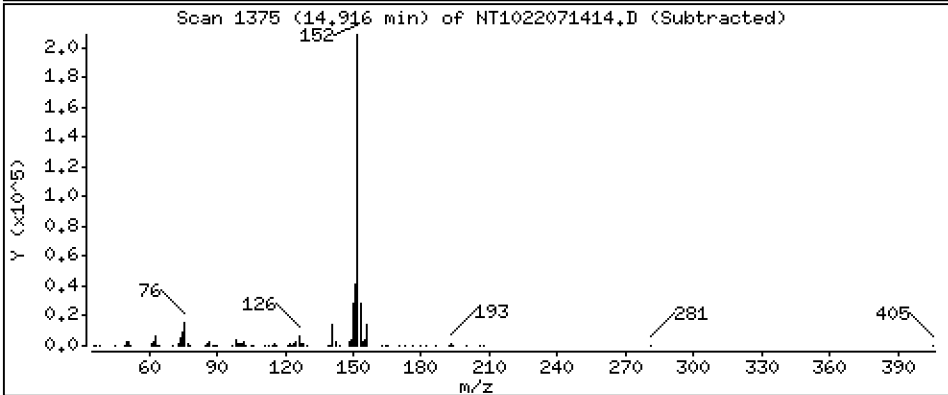
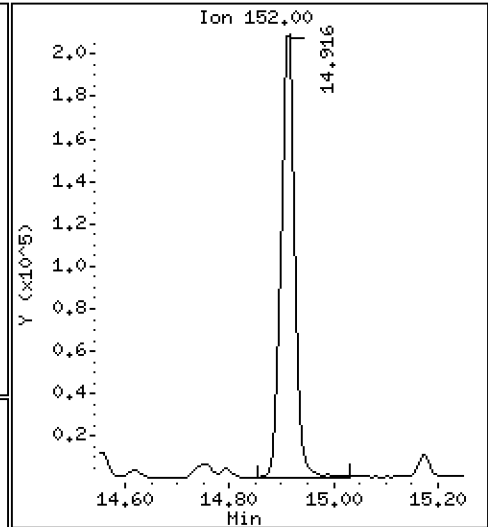
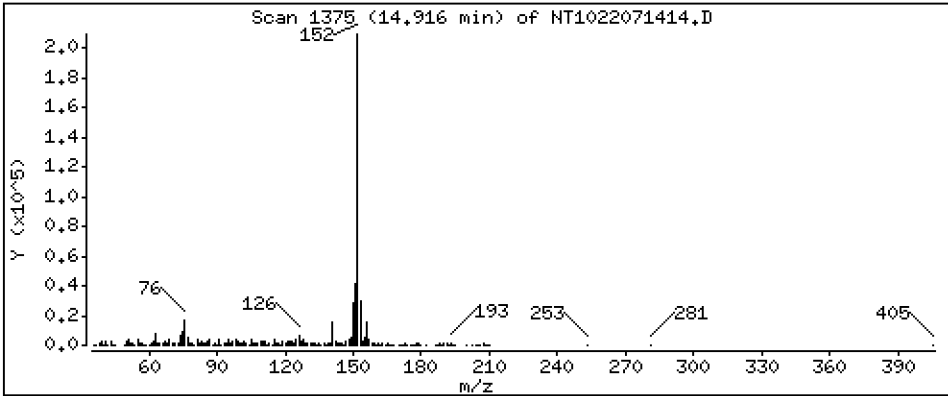
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 6,790 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

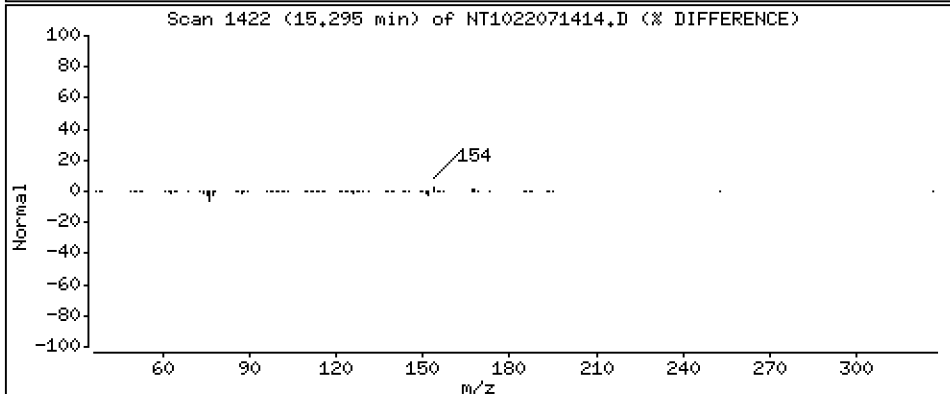
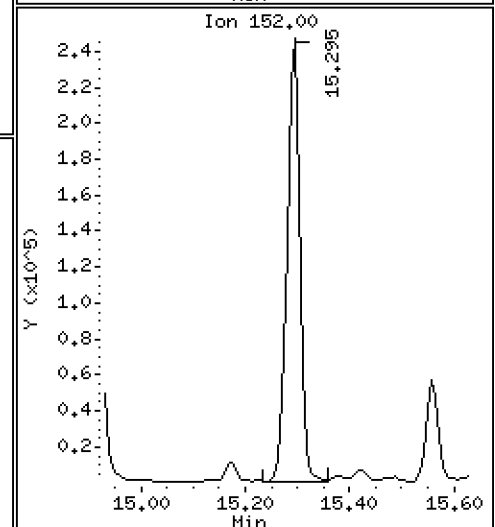
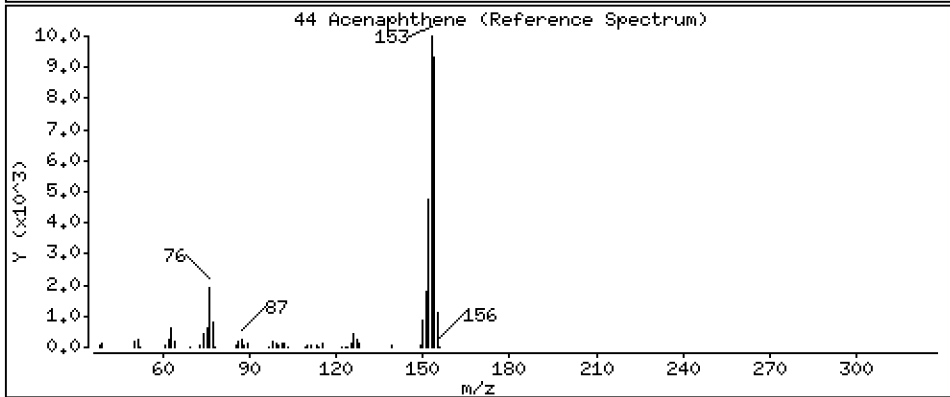
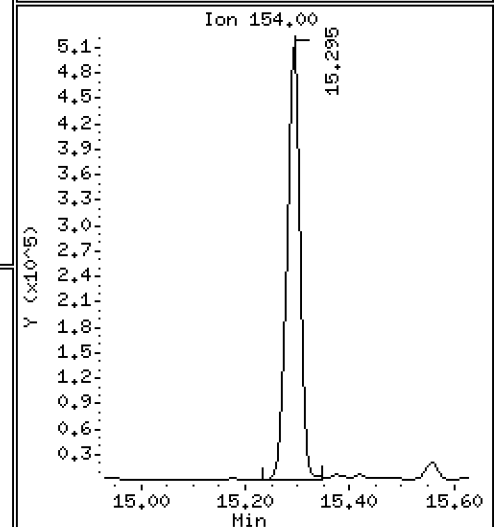
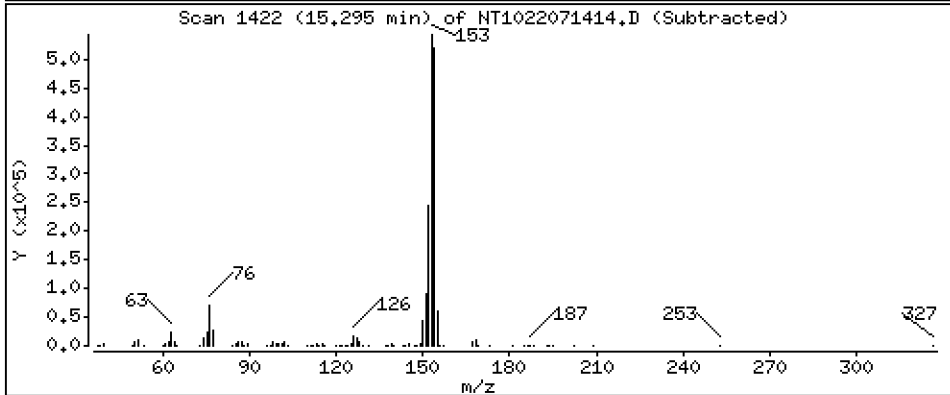
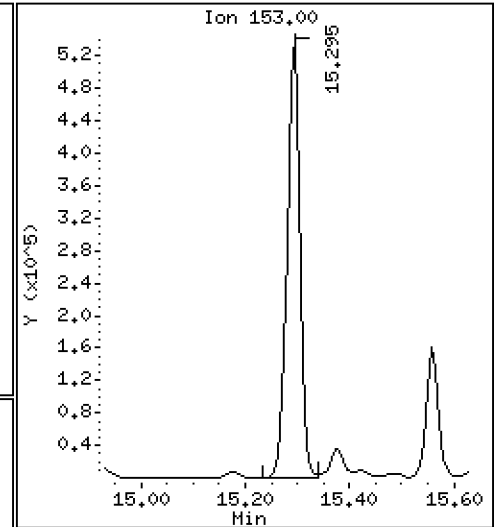
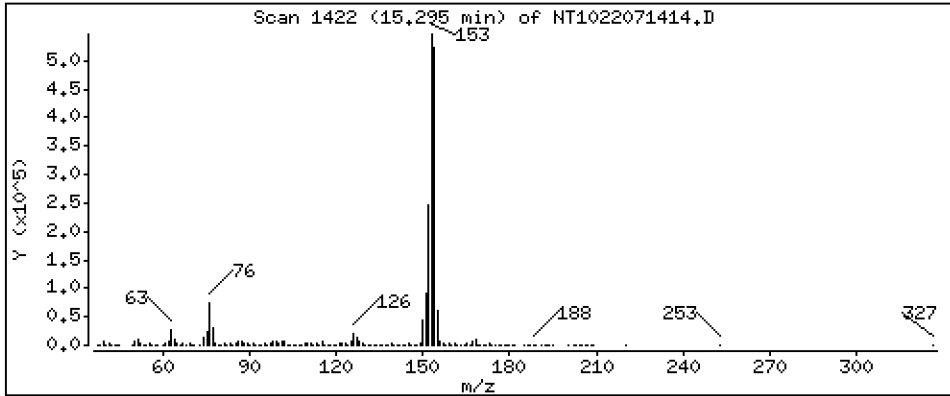
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 30,31 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08,3

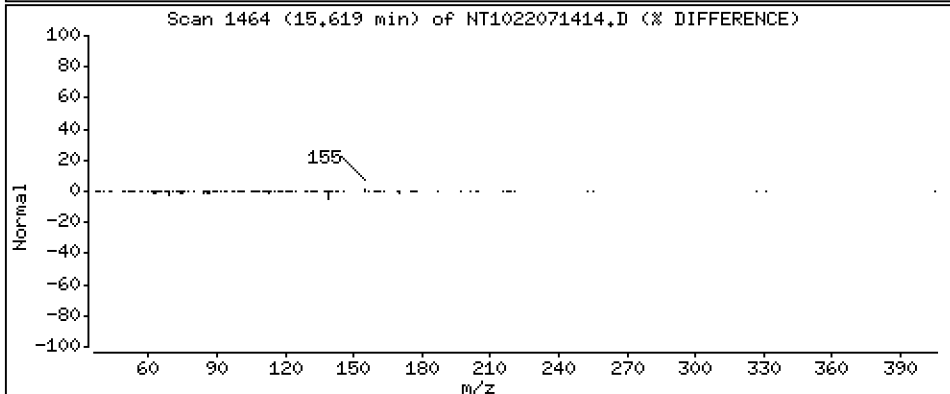
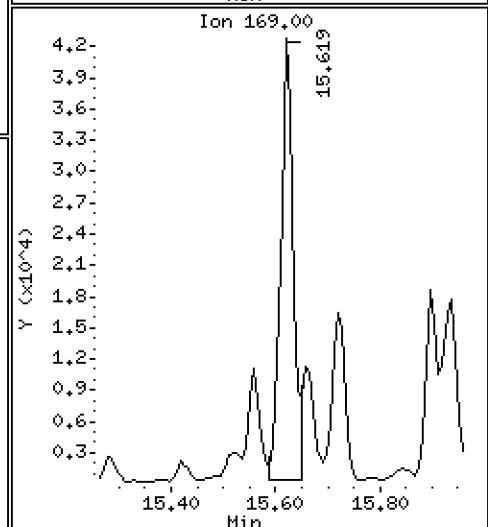
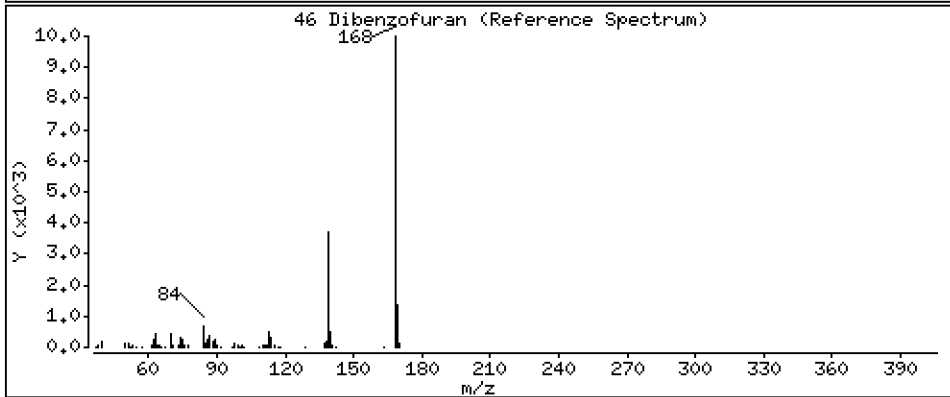
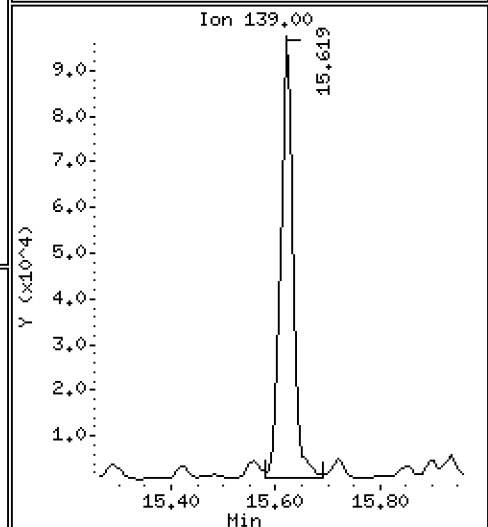
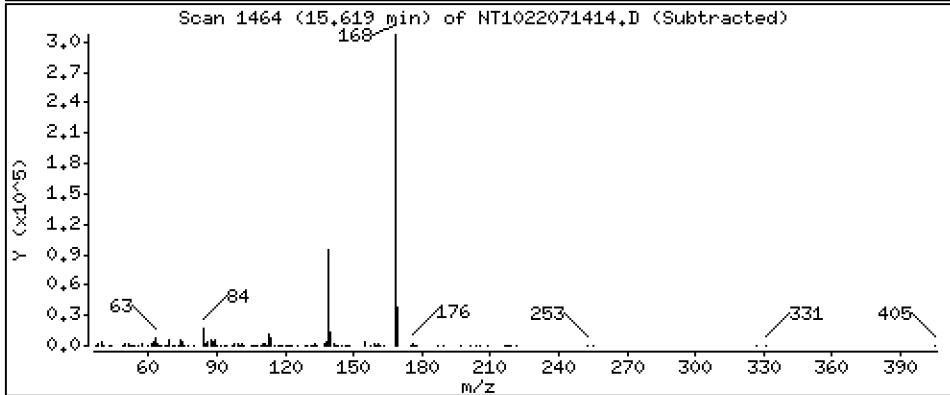
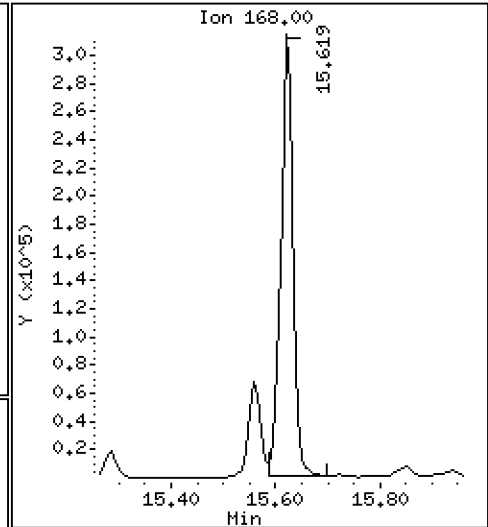
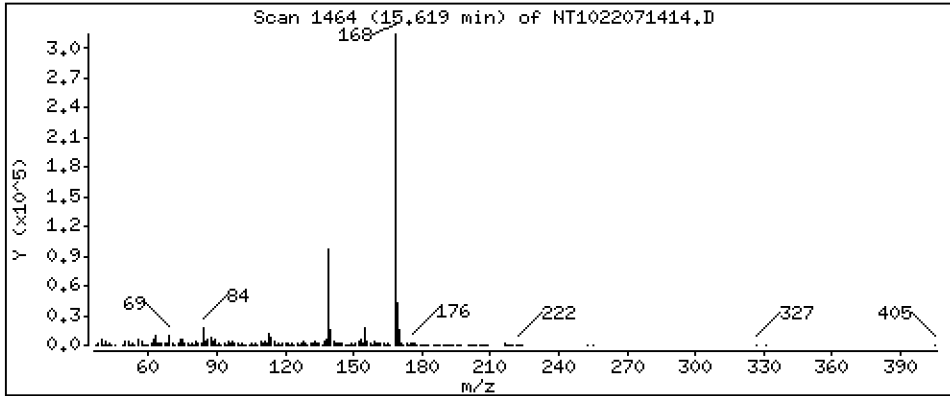
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 10,29 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08,3

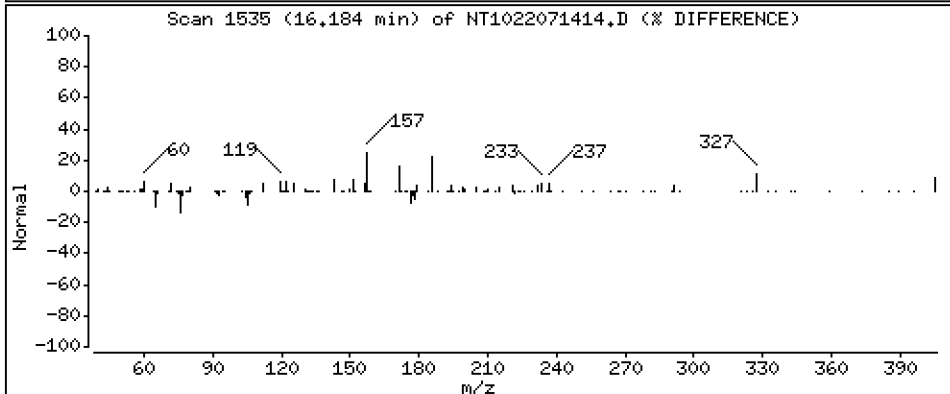
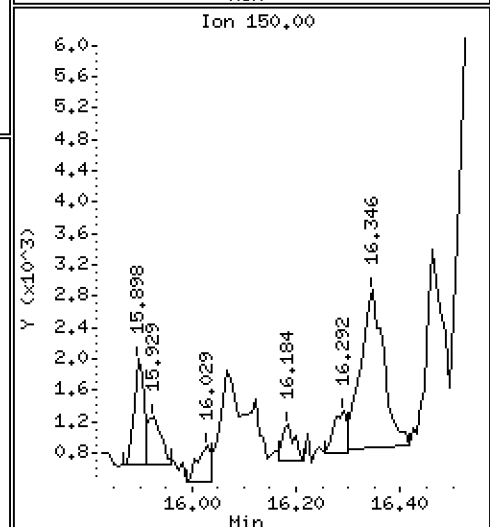
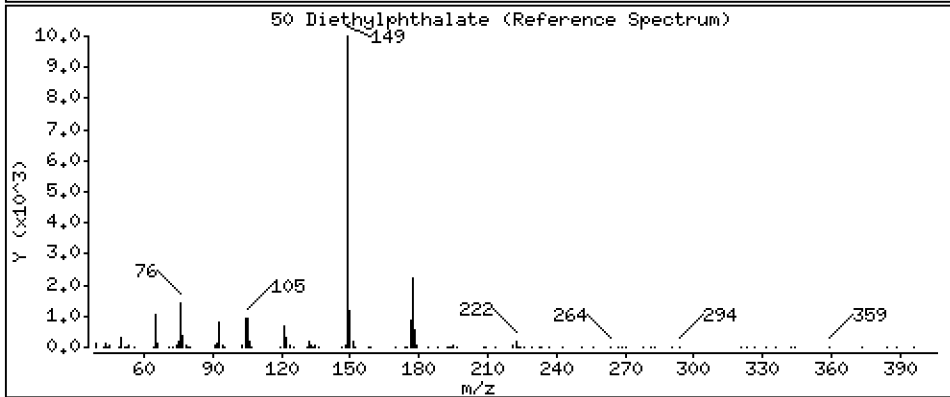
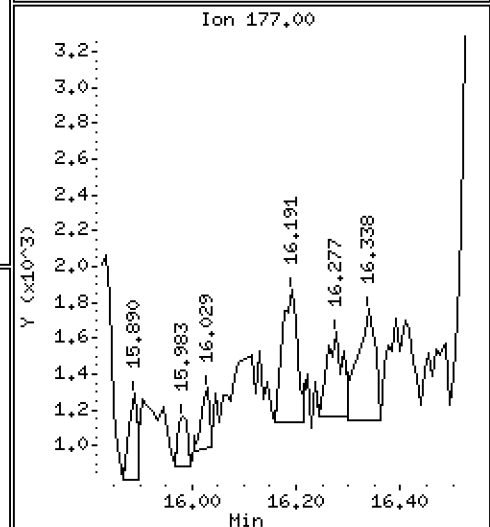
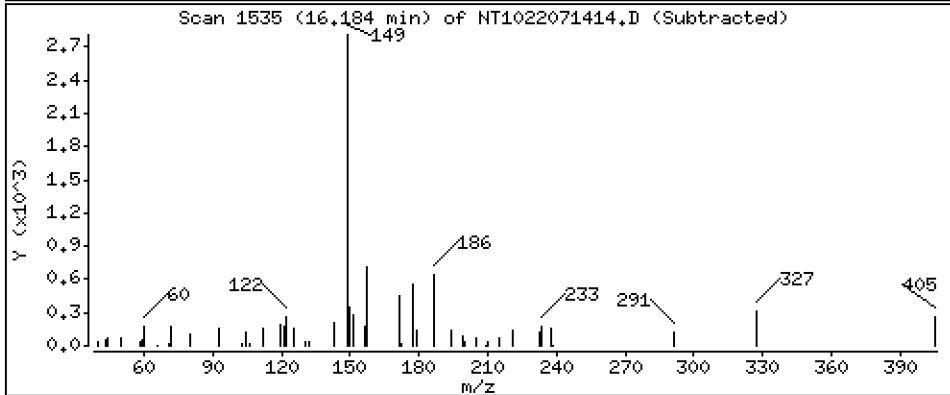
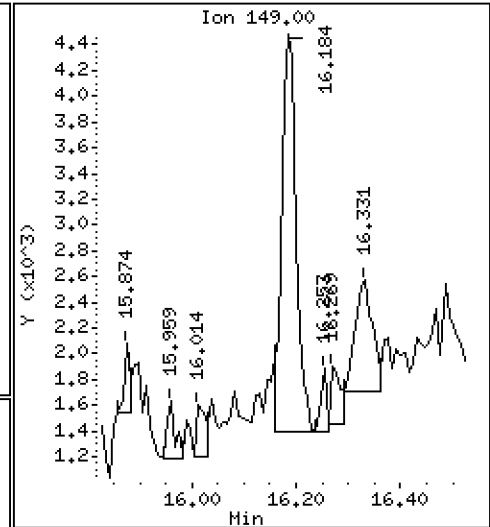
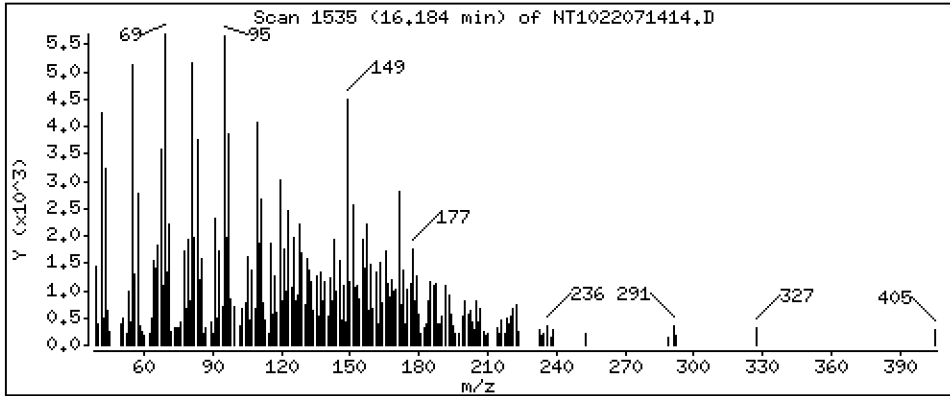
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.1893 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

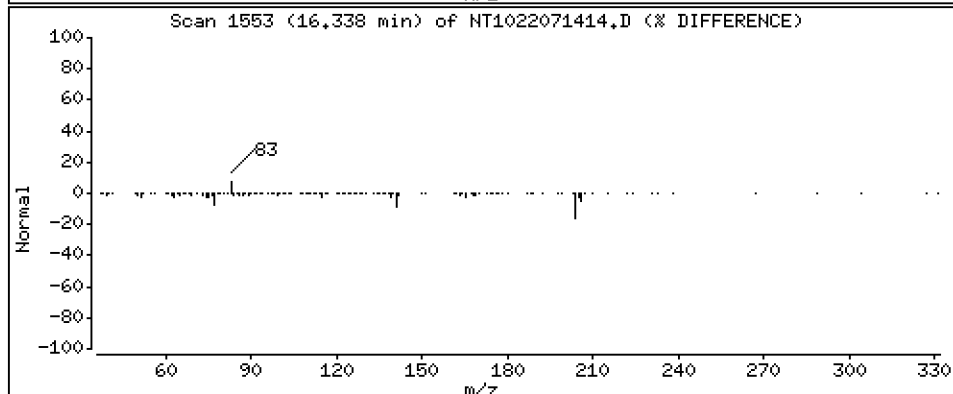
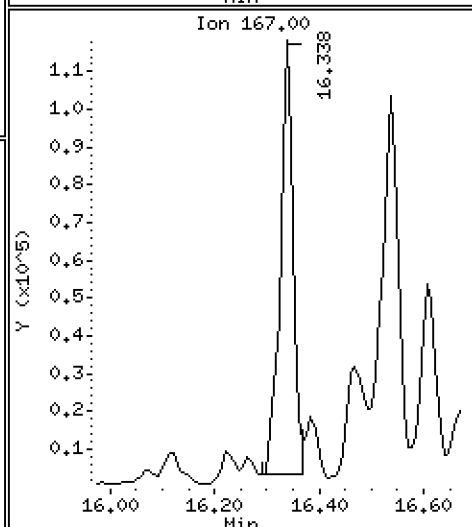
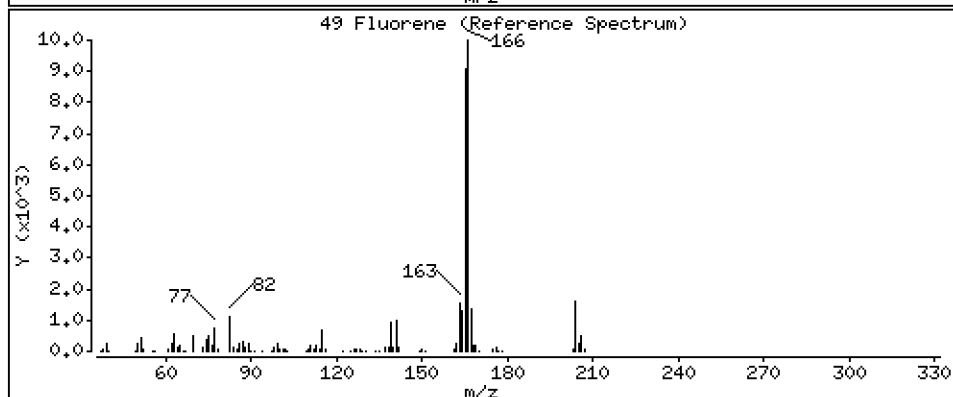
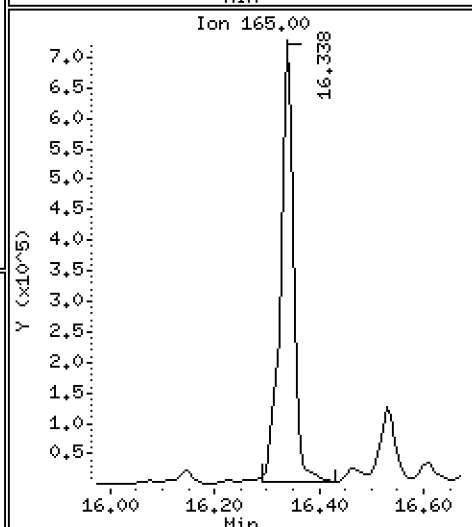
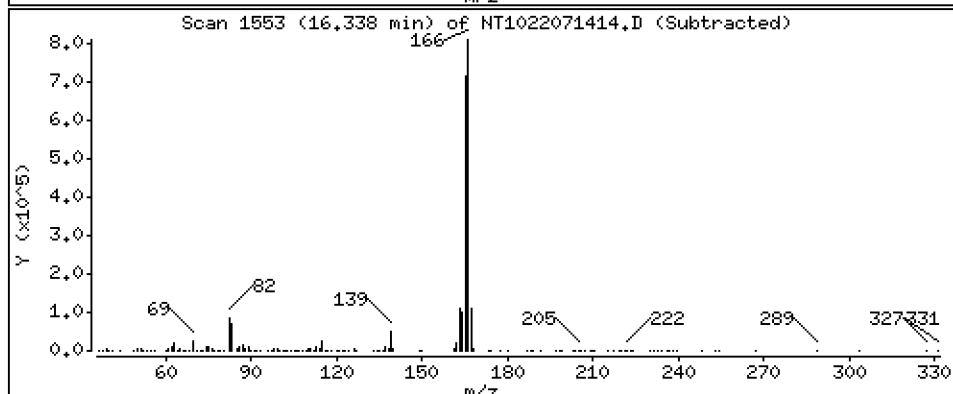
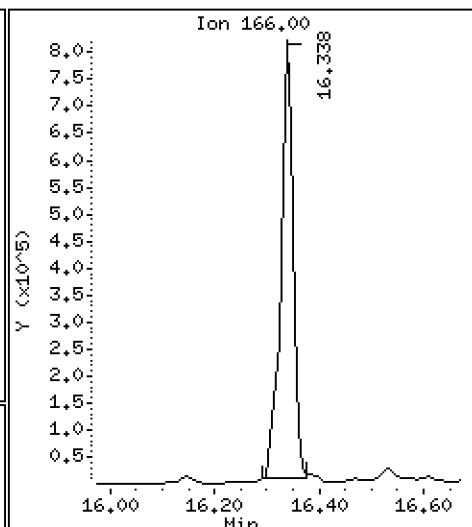
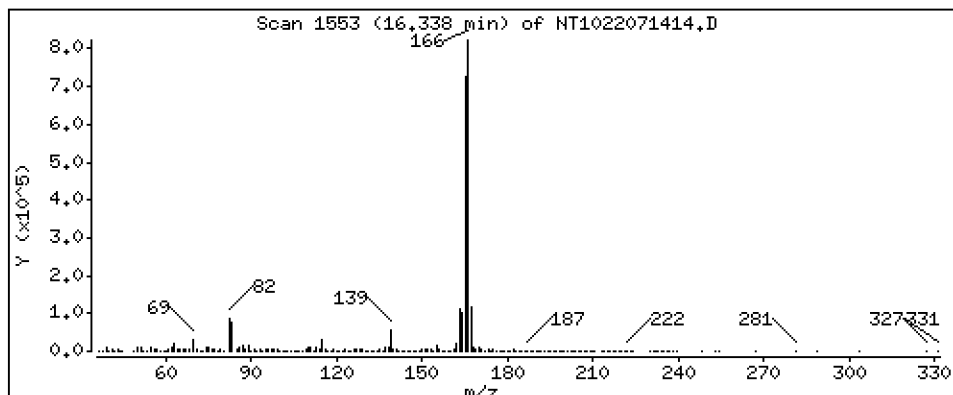
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 26,13 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

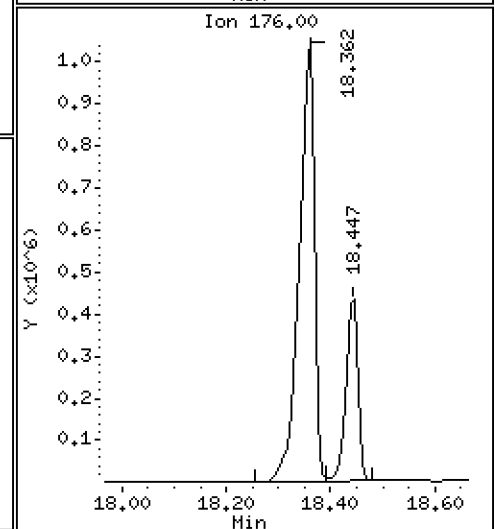
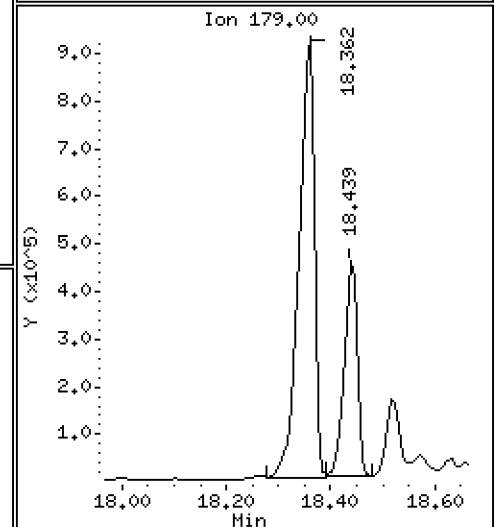
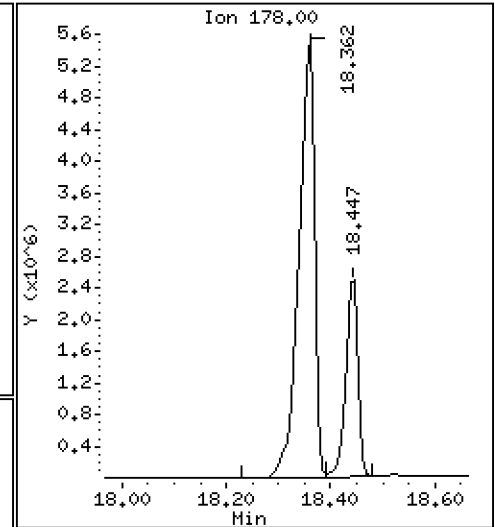
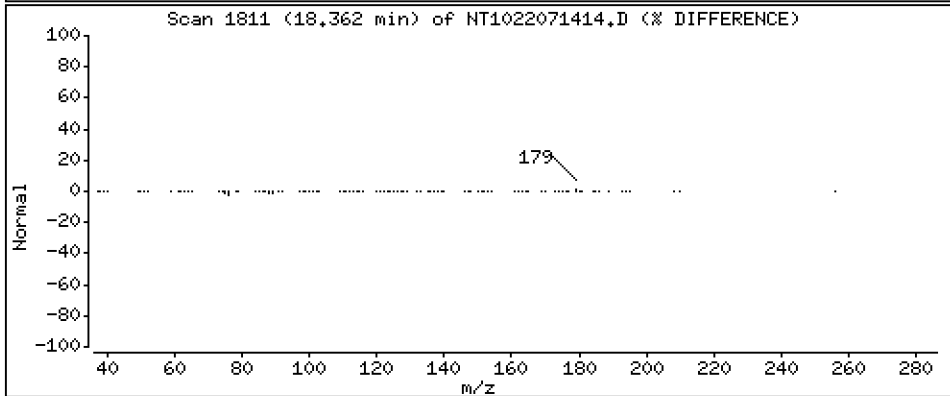
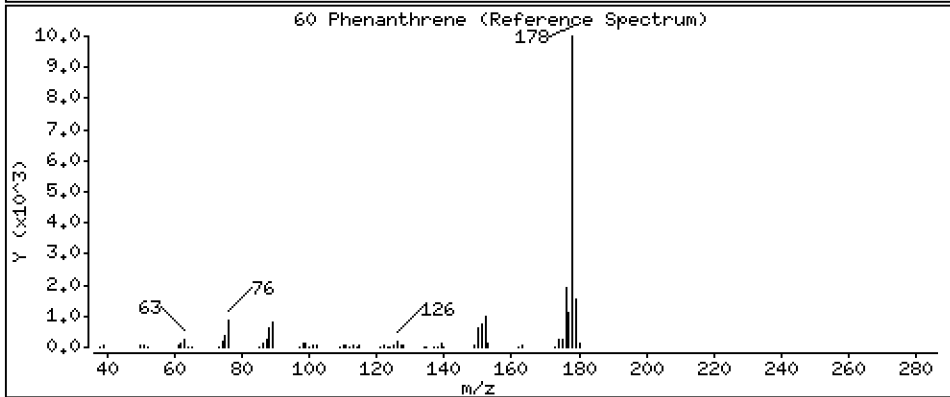
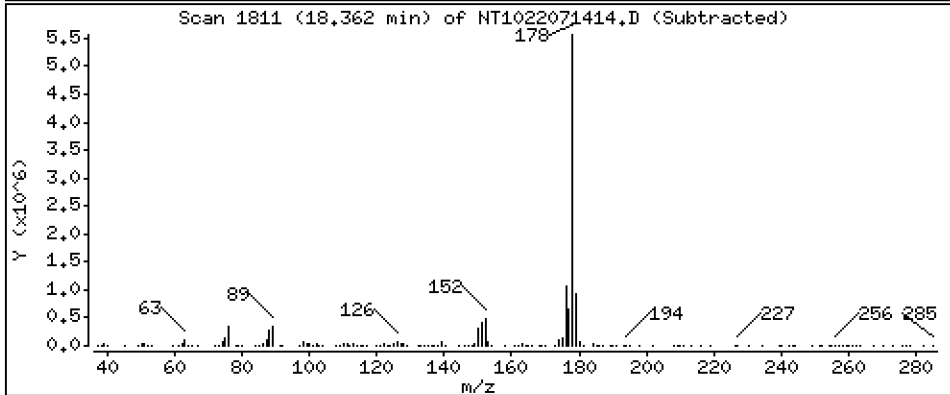
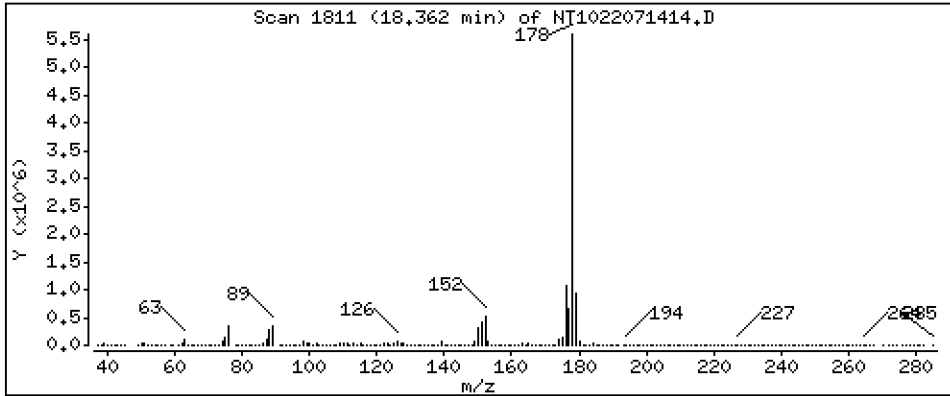
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 250,7 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08,3

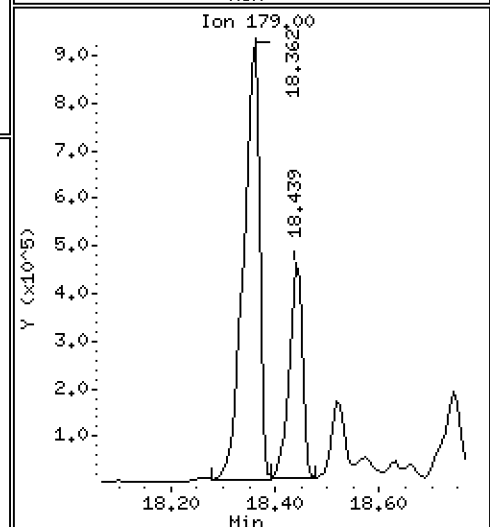
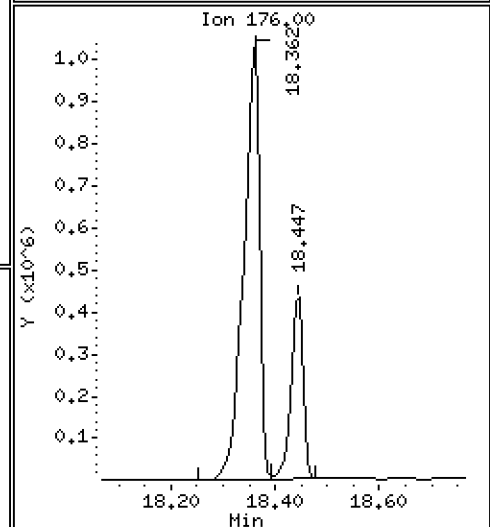
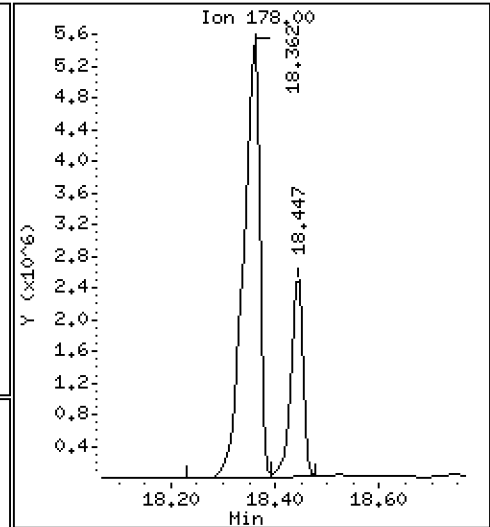
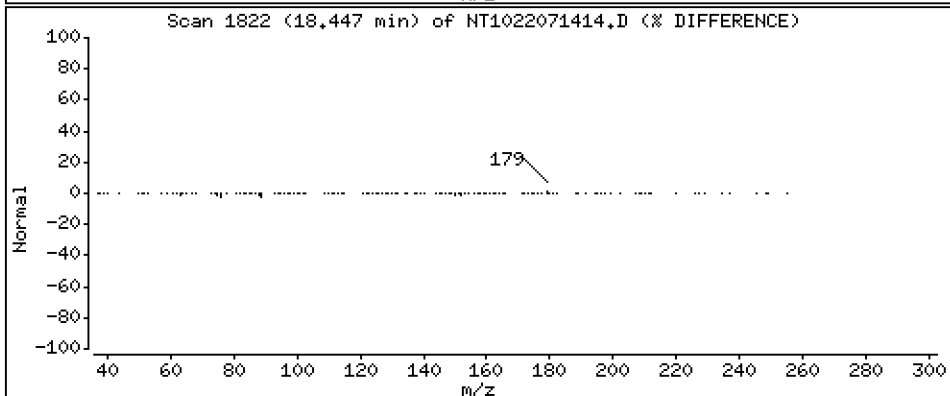
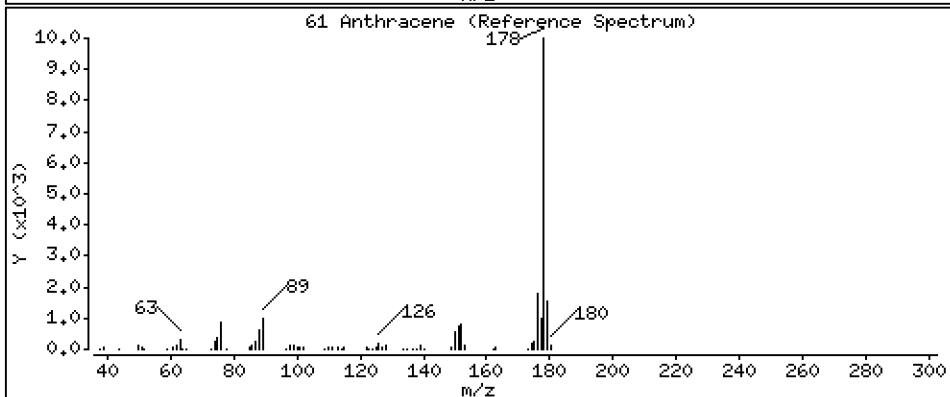
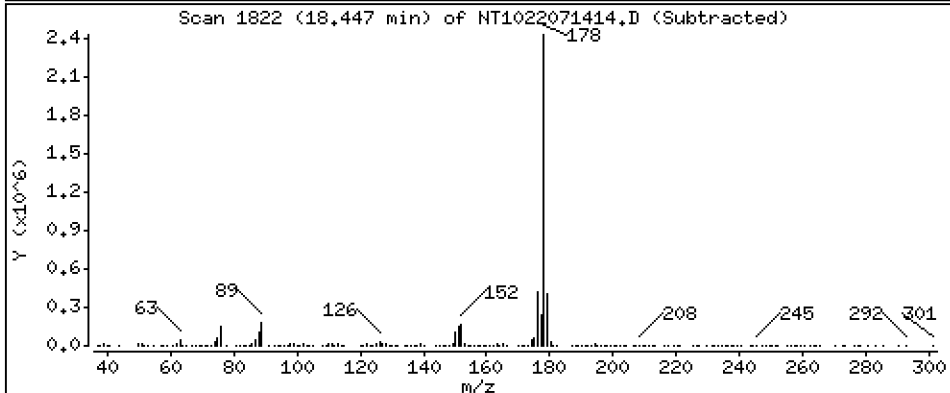
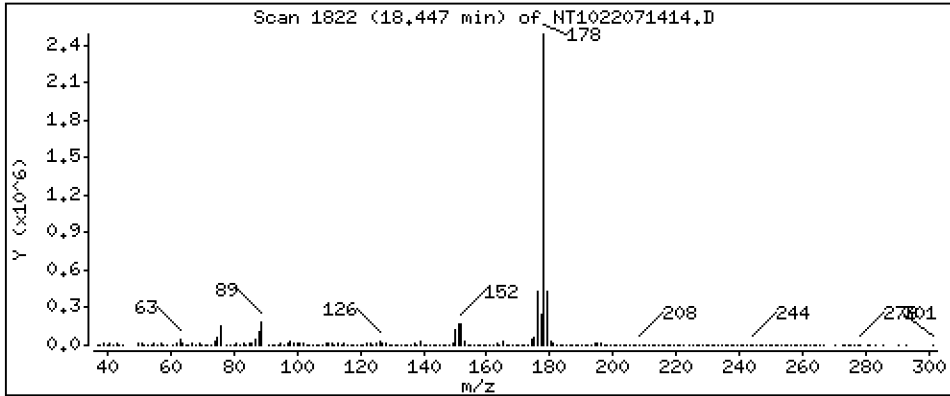
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 82,19 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08,3

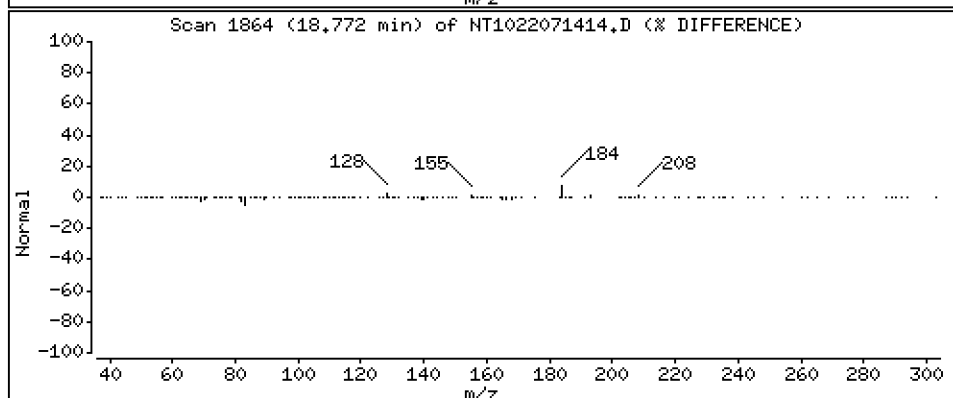
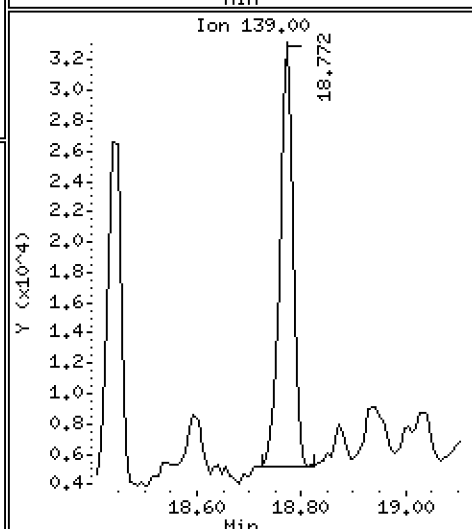
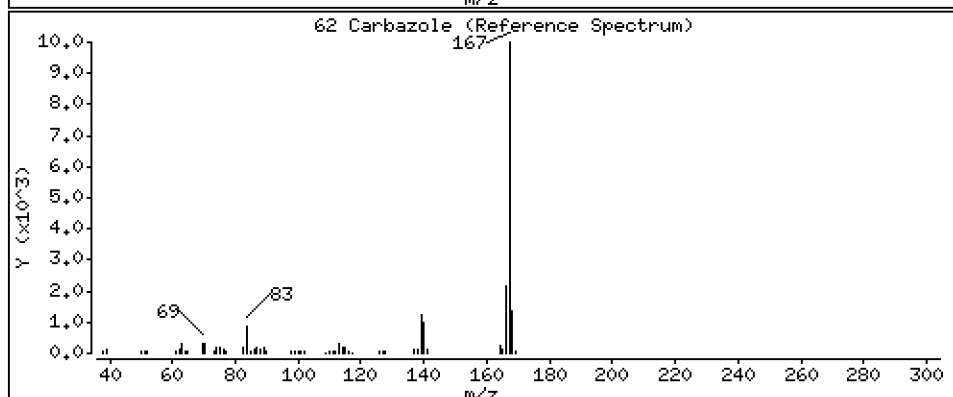
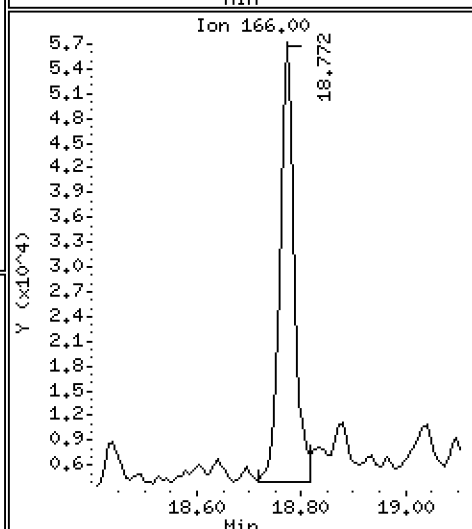
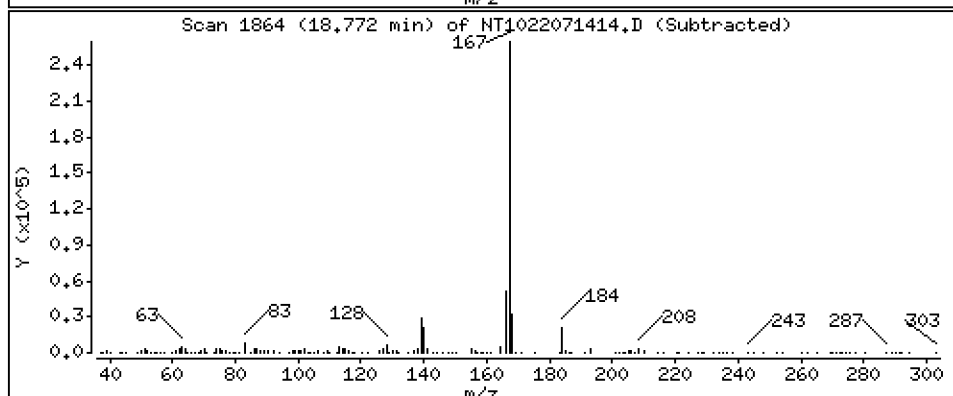
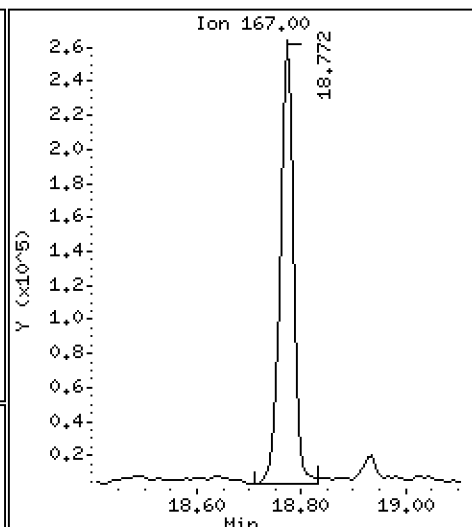
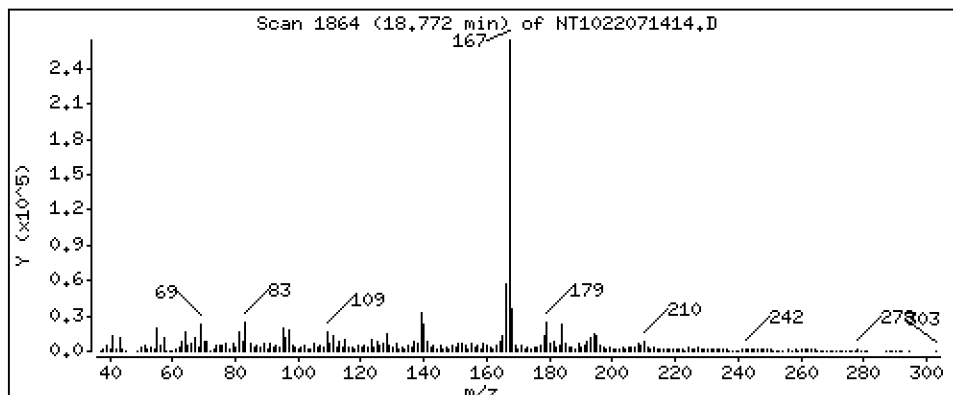
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 9,967 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

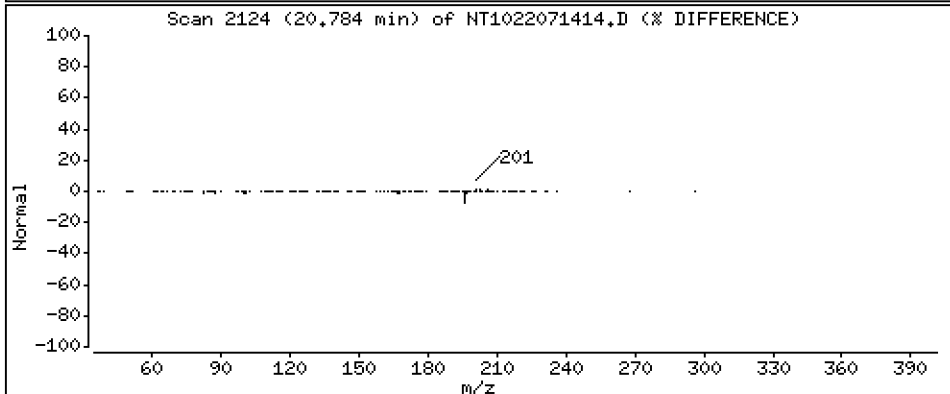
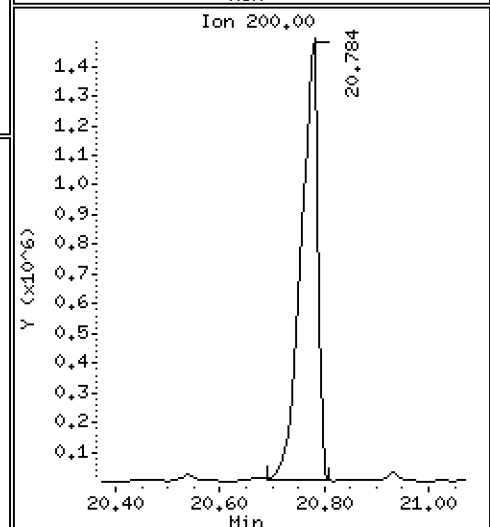
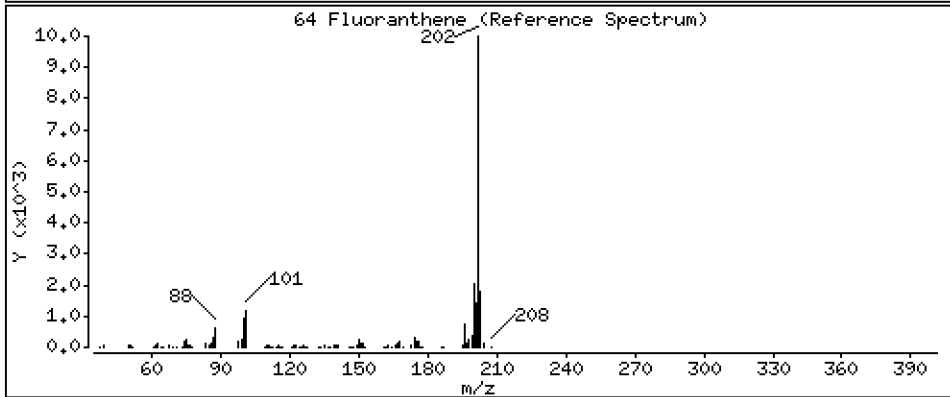
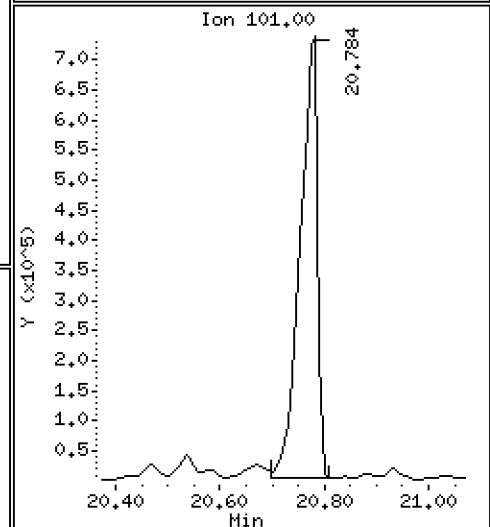
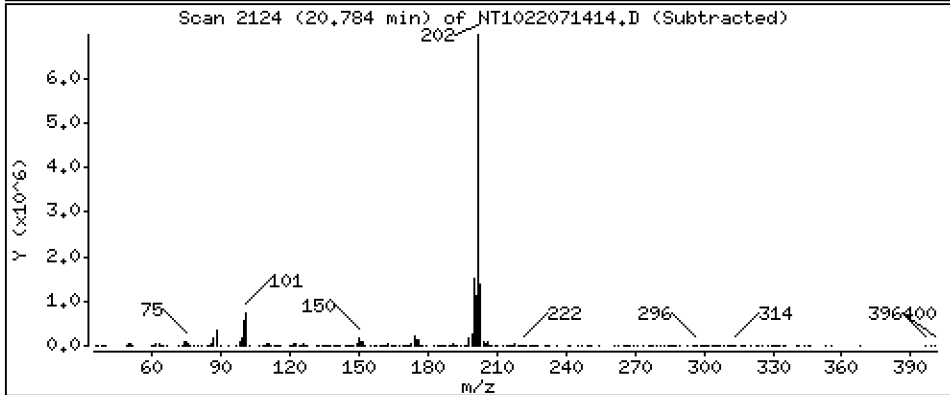
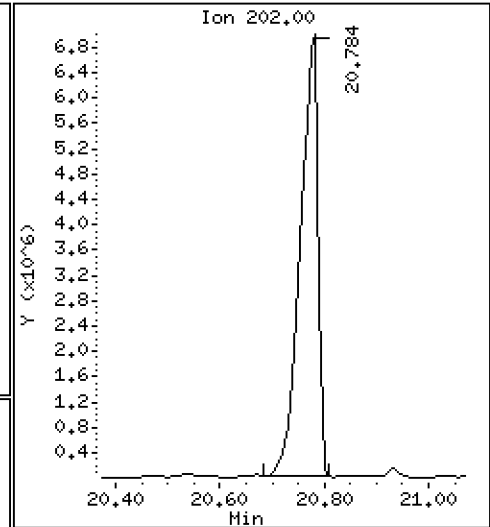
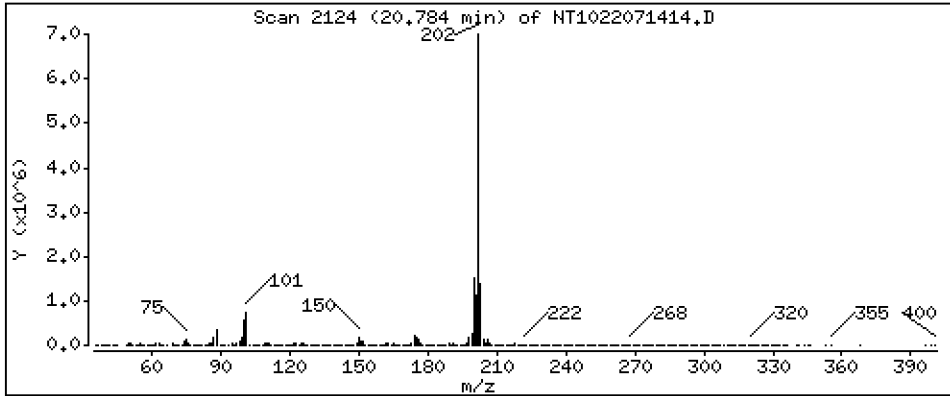
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 101,4 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08,3

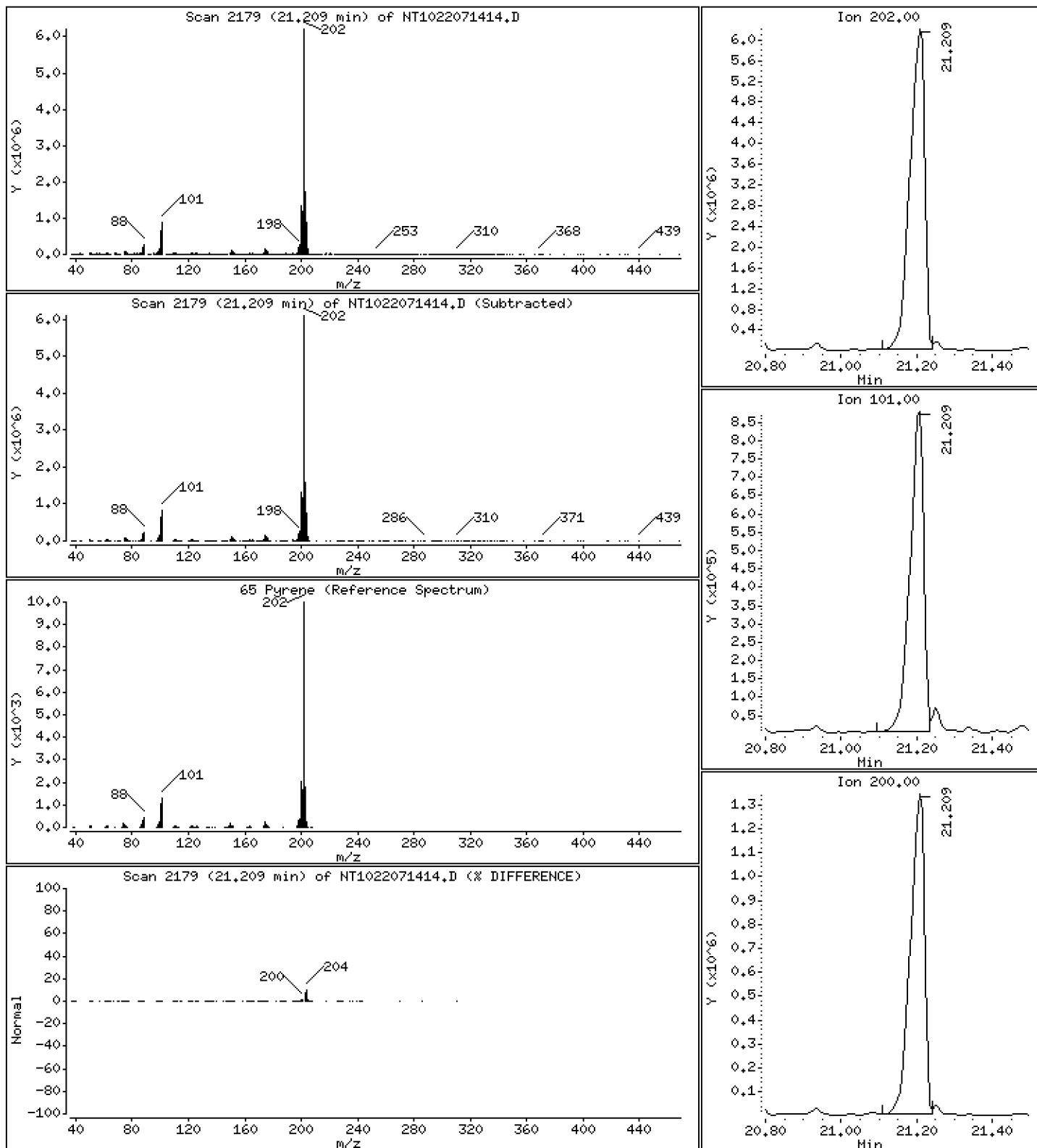
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 81,24 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

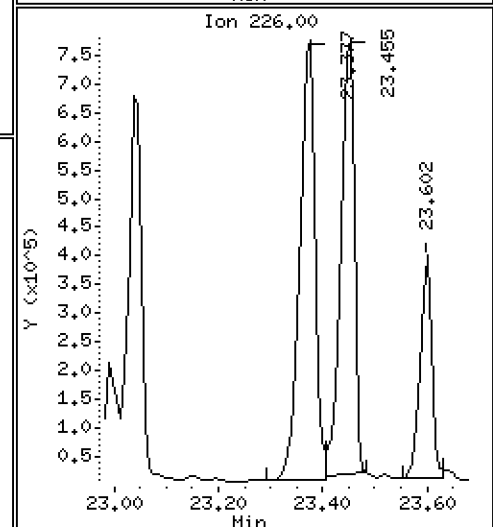
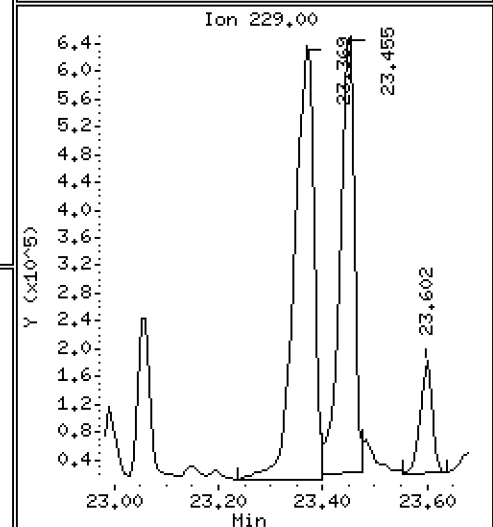
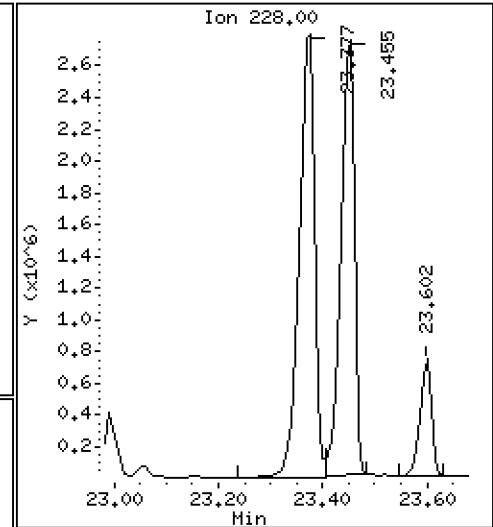
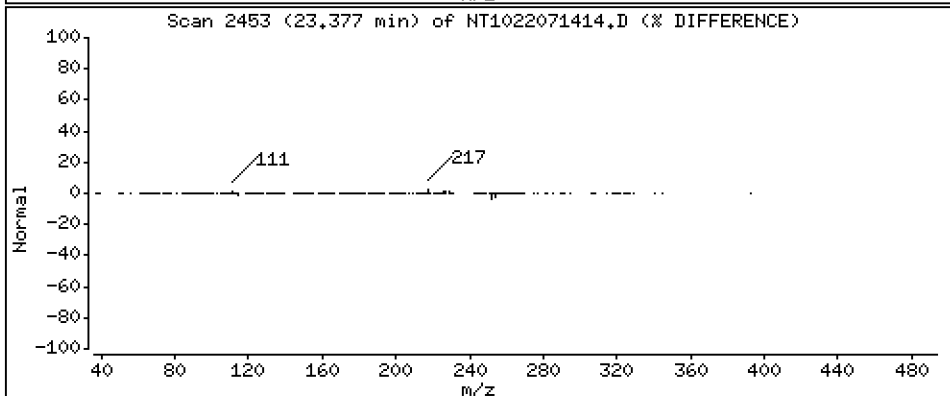
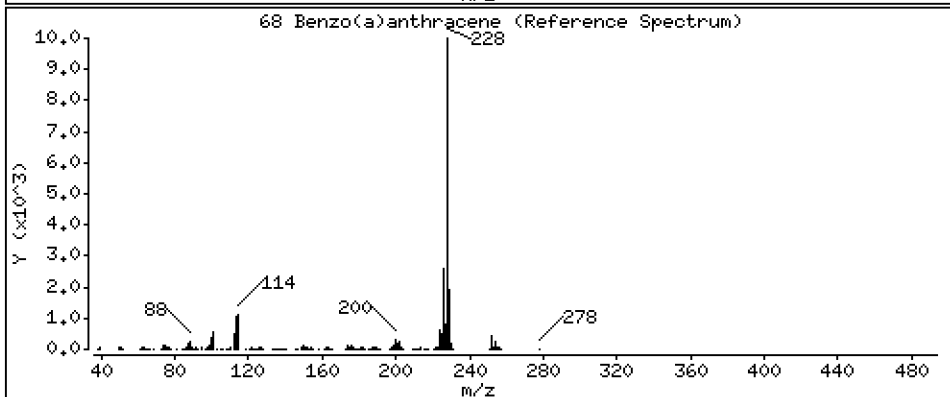
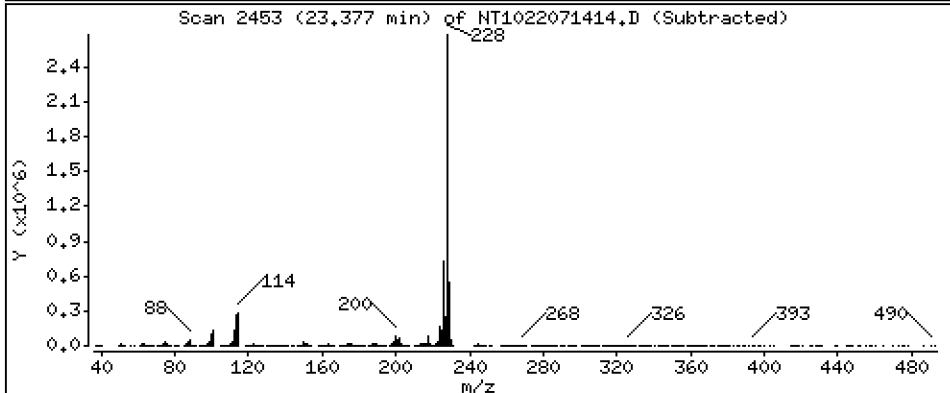
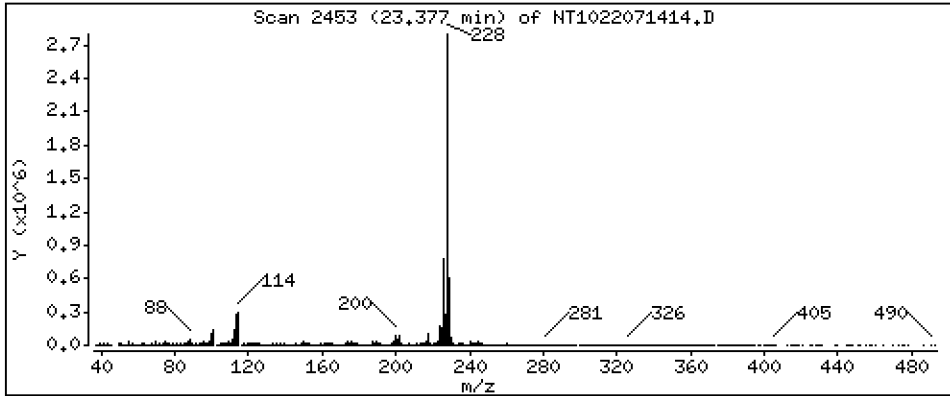
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 123,7 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

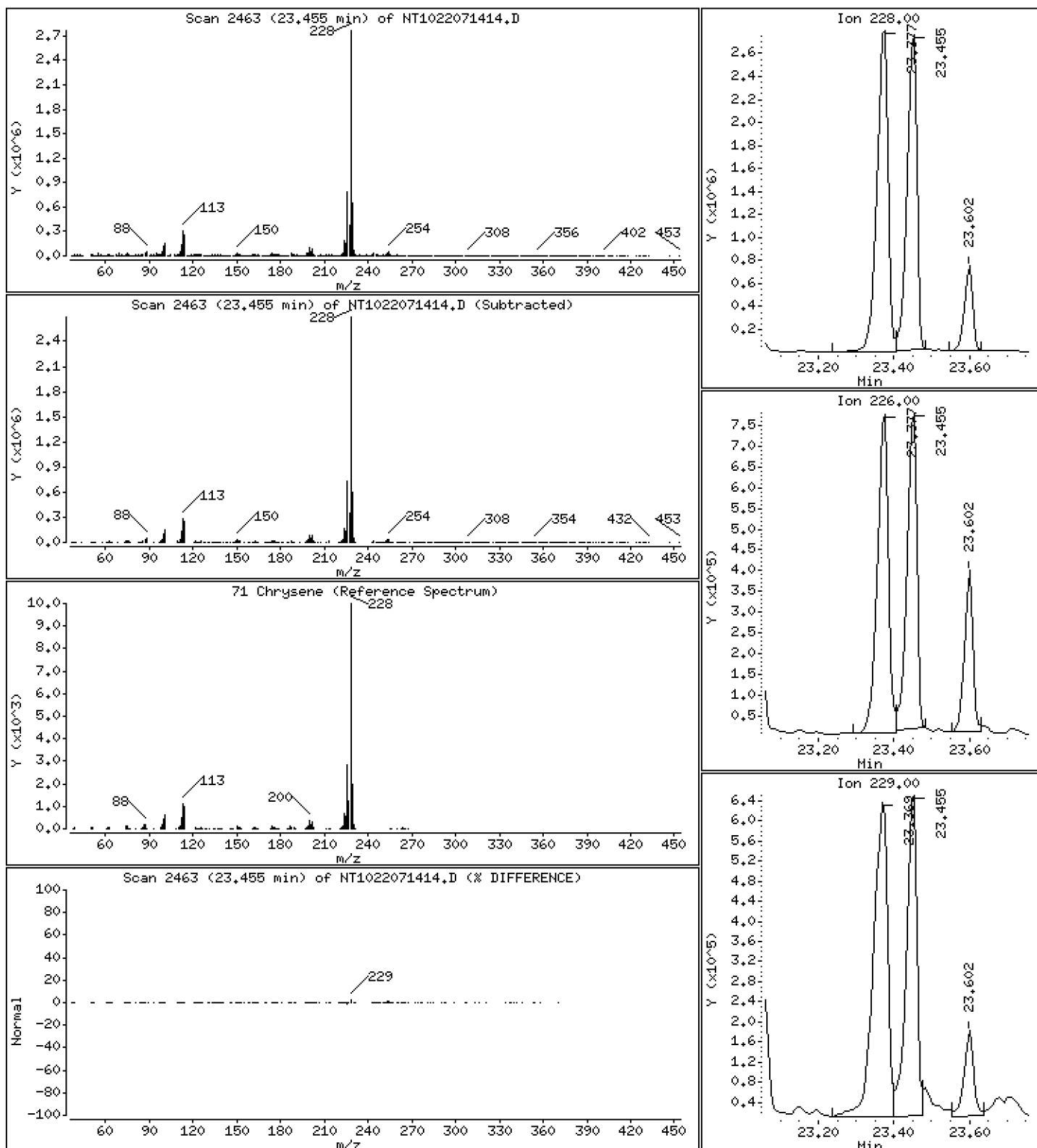
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 72,73 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

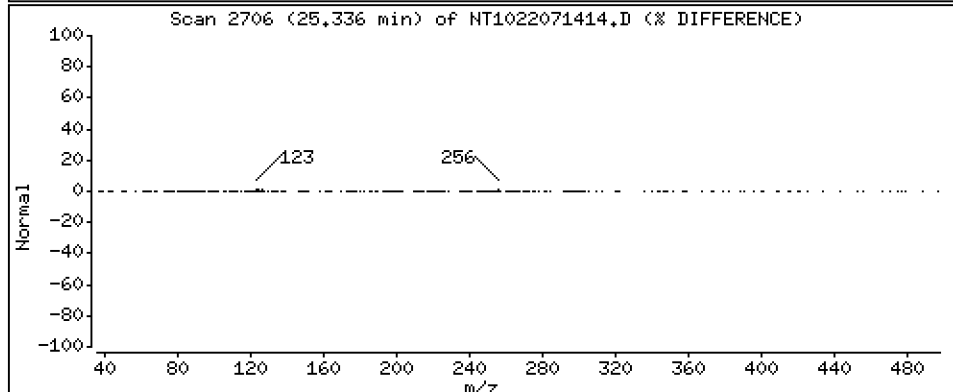
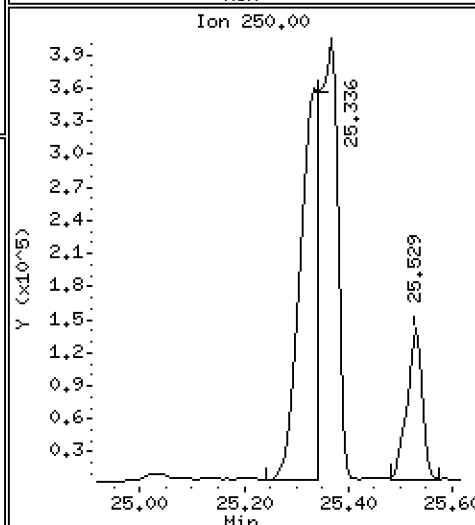
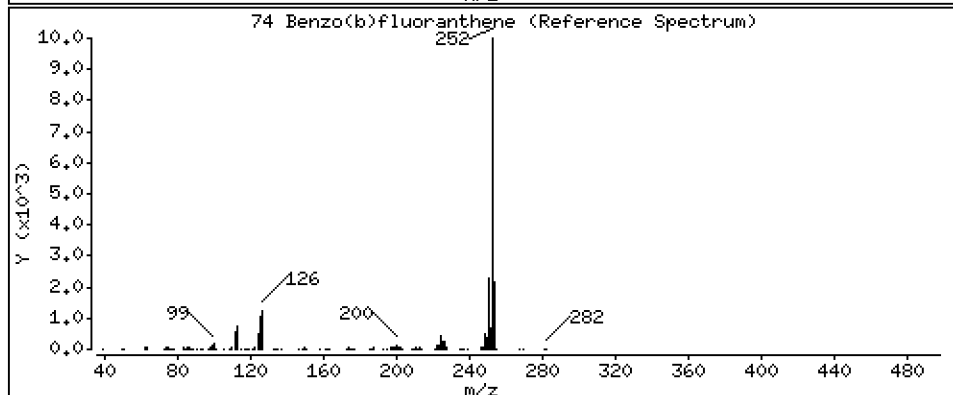
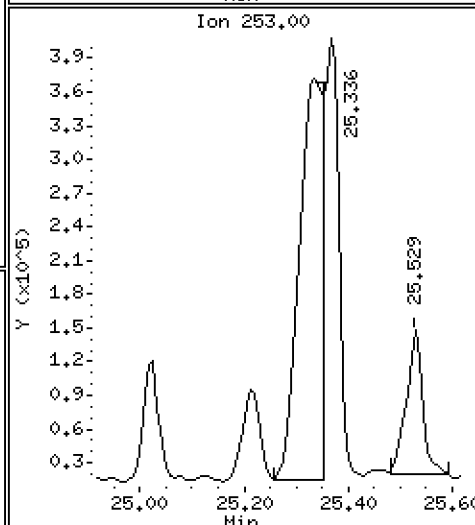
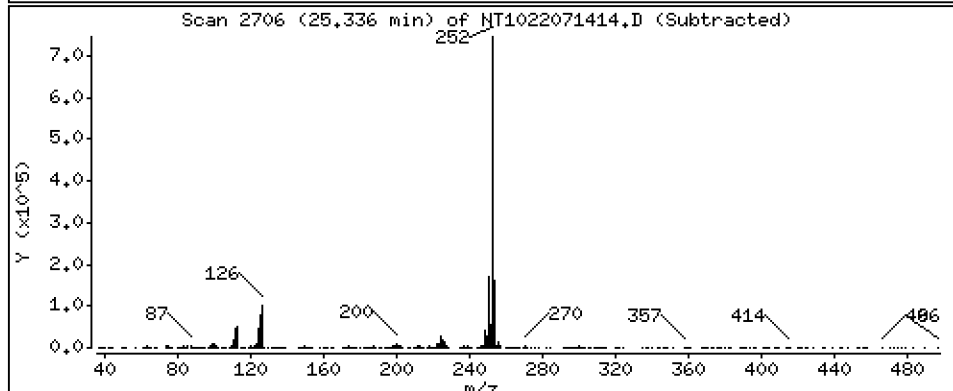
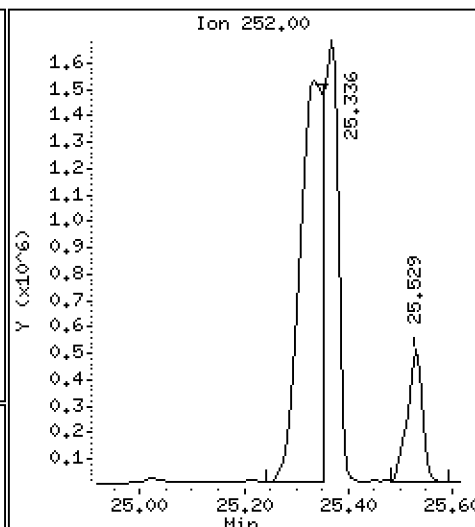
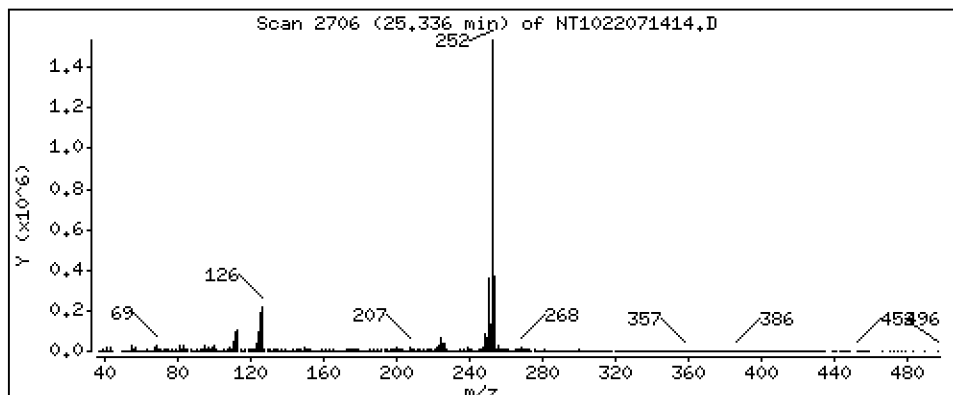
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 91,21 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

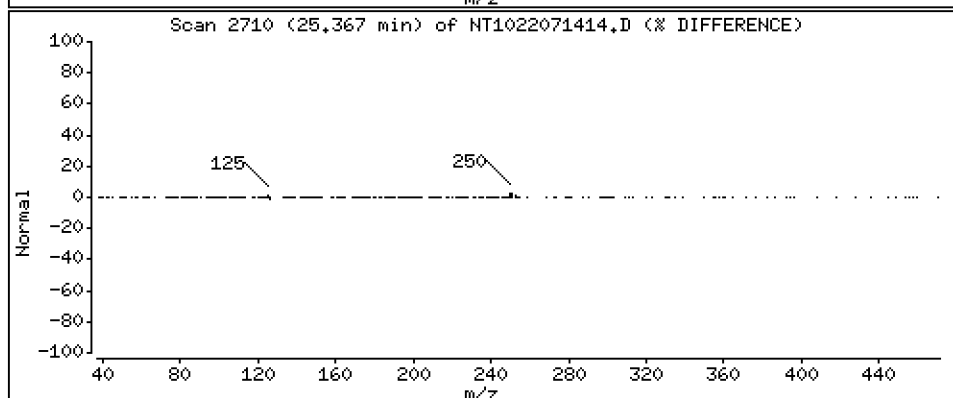
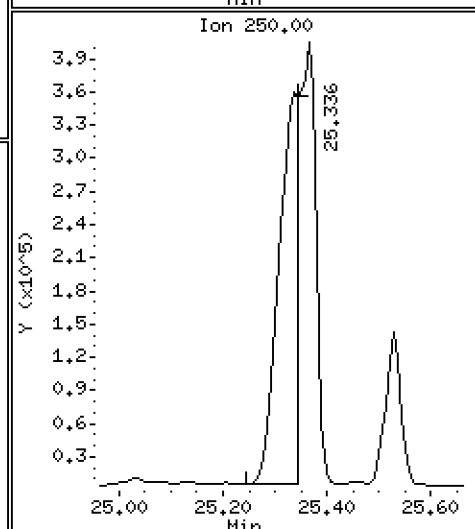
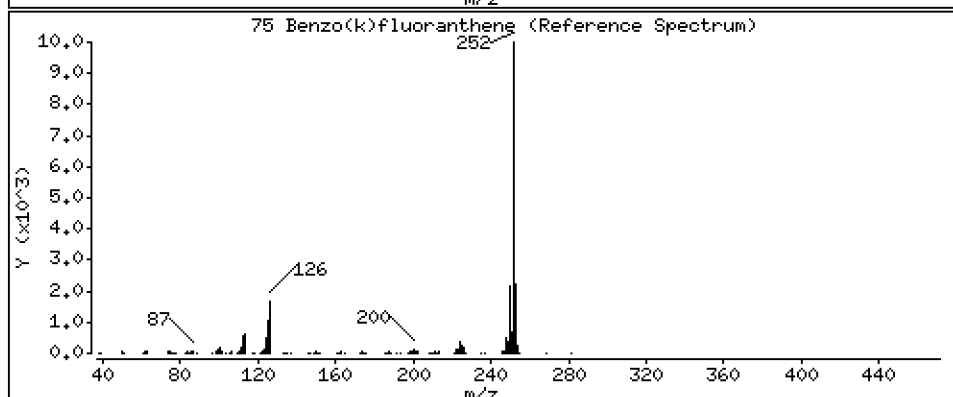
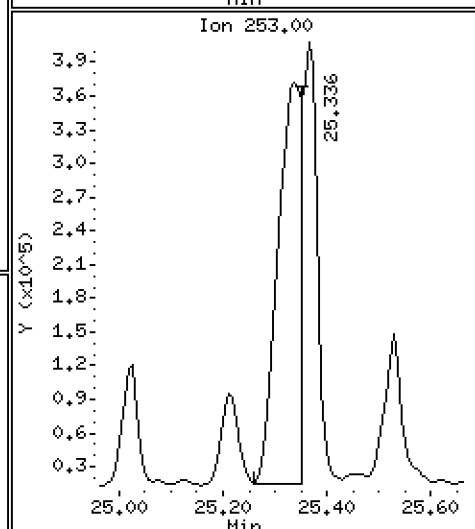
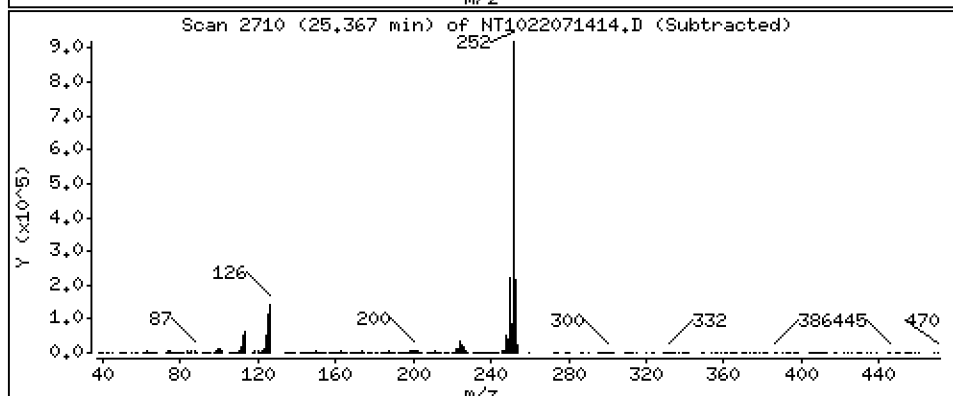
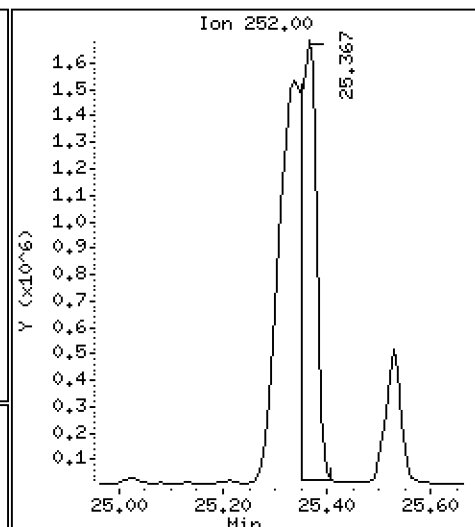
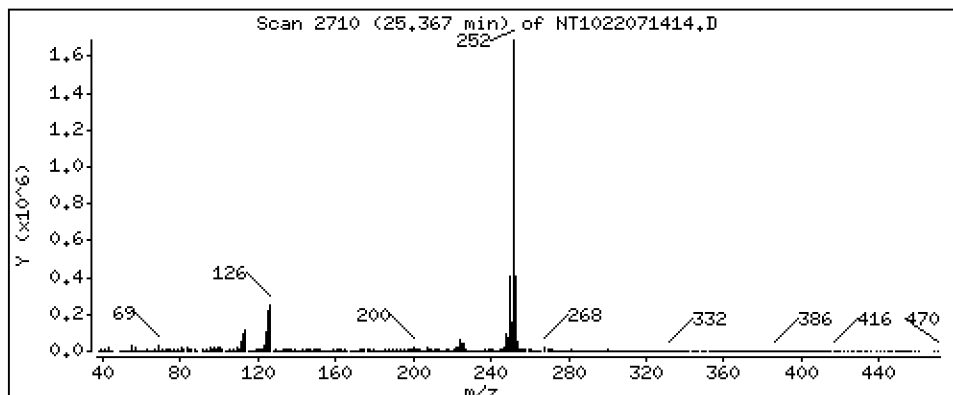
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 69,12 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

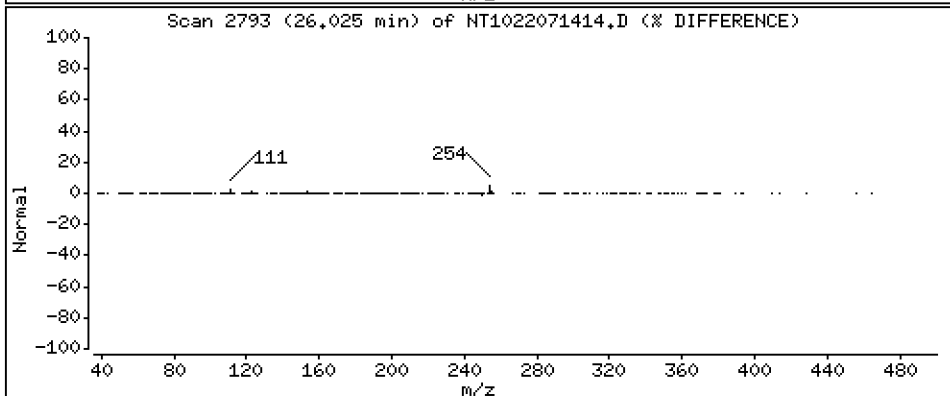
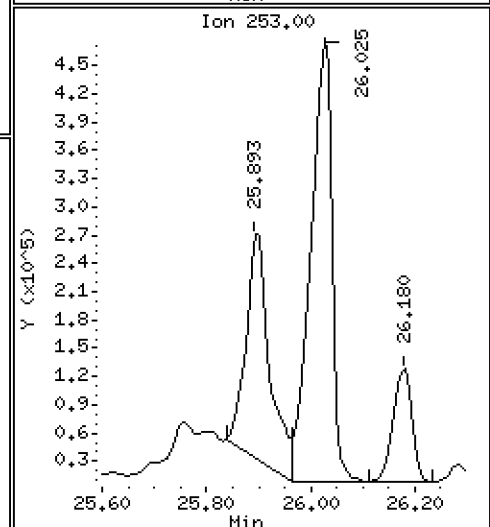
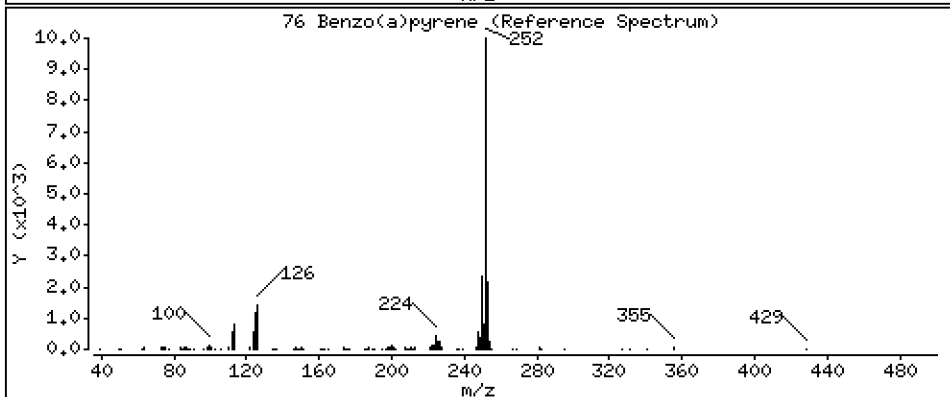
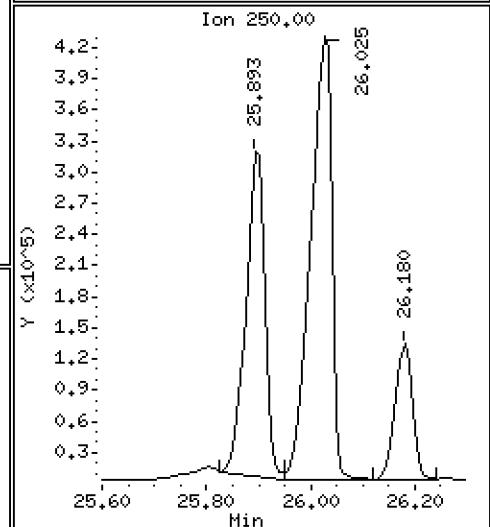
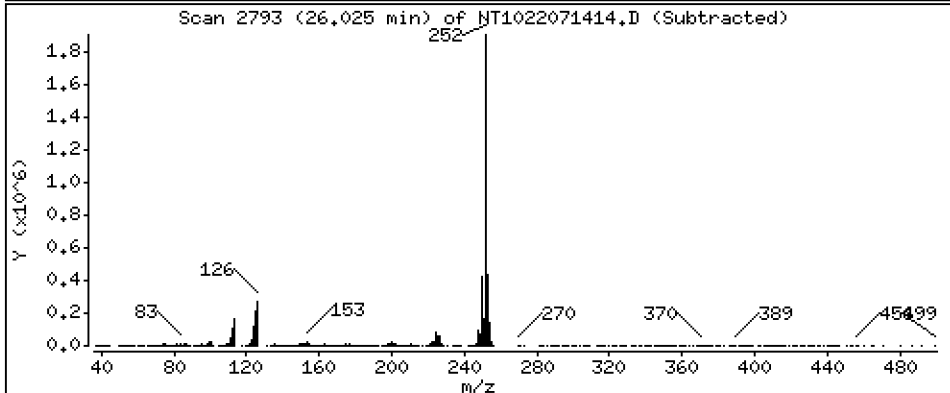
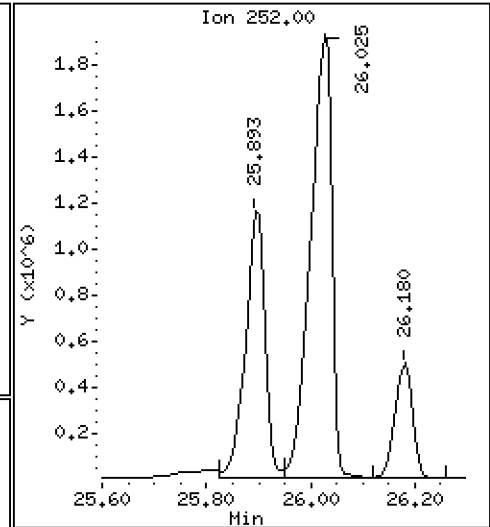
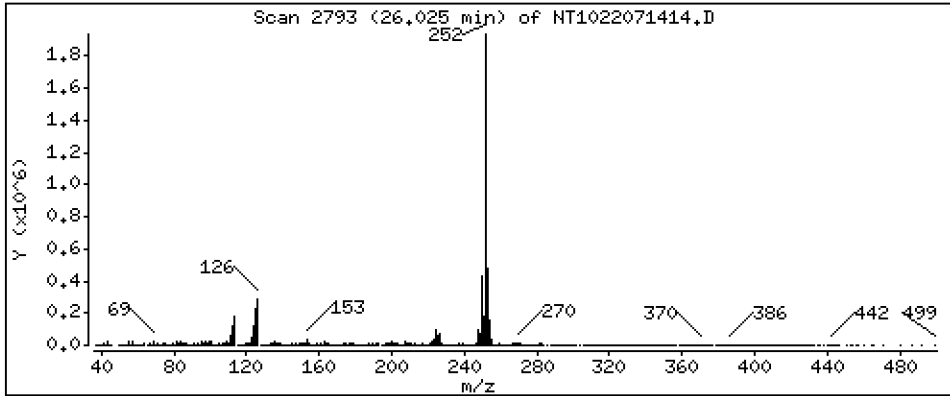
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 125,1 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

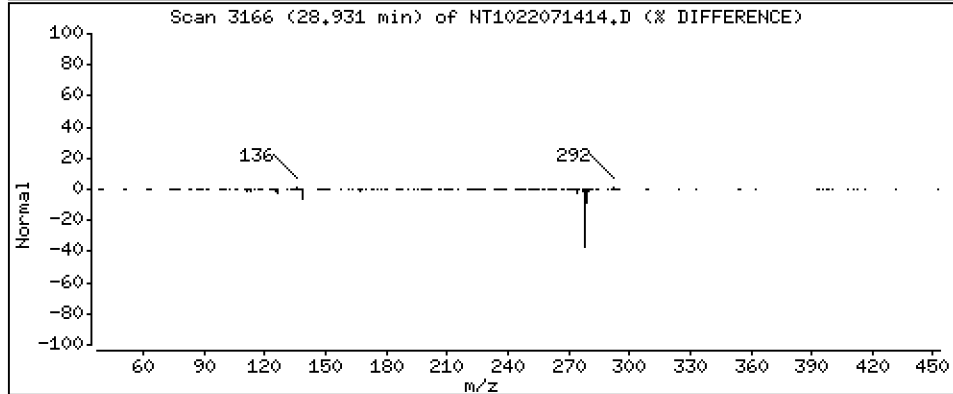
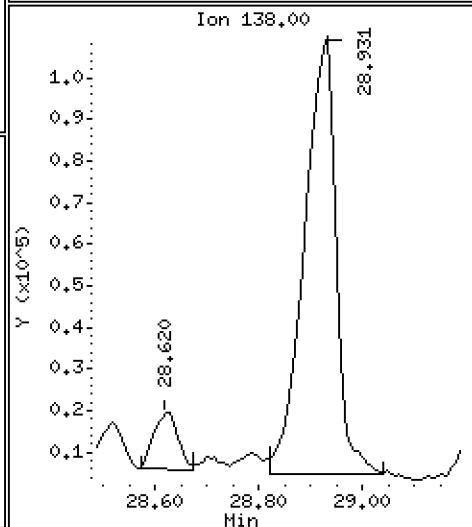
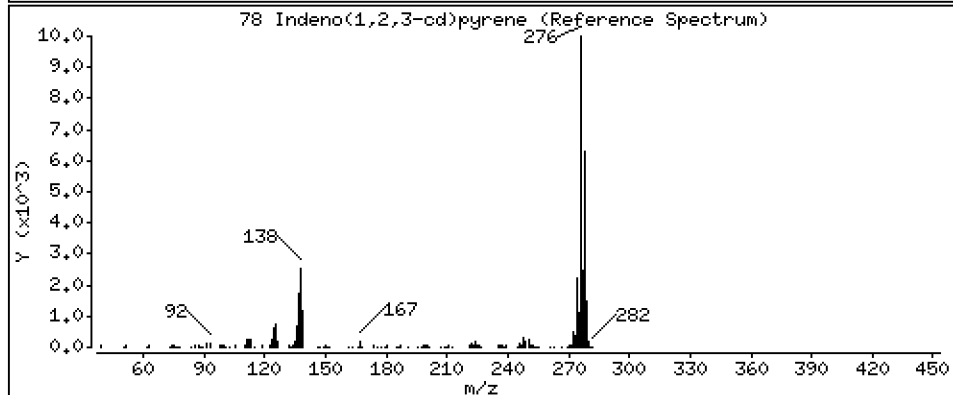
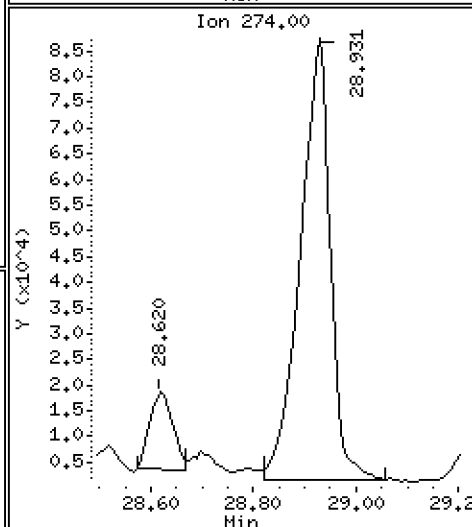
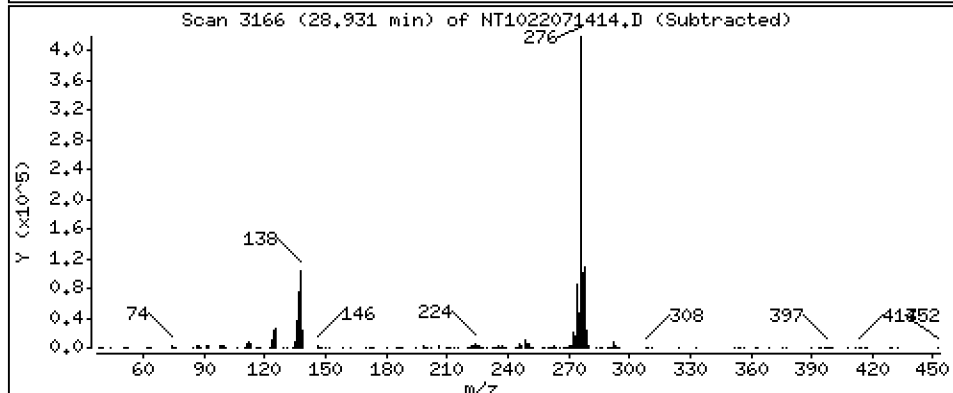
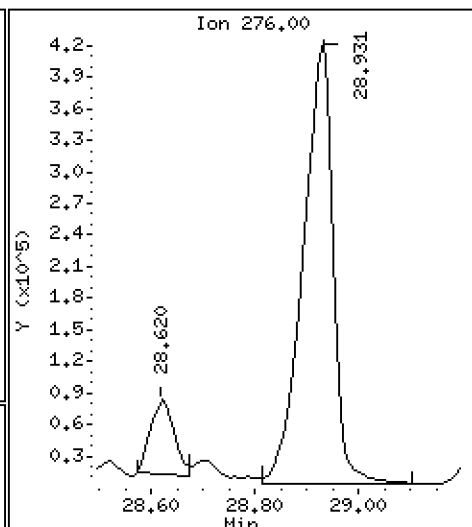
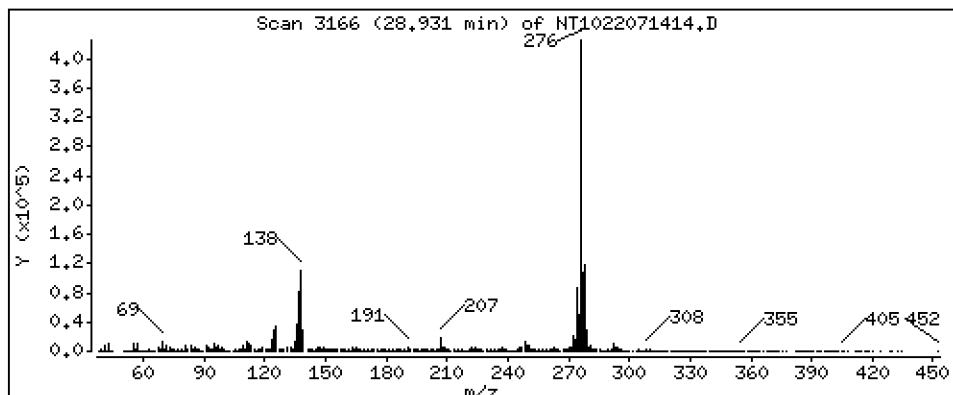
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 36,42 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

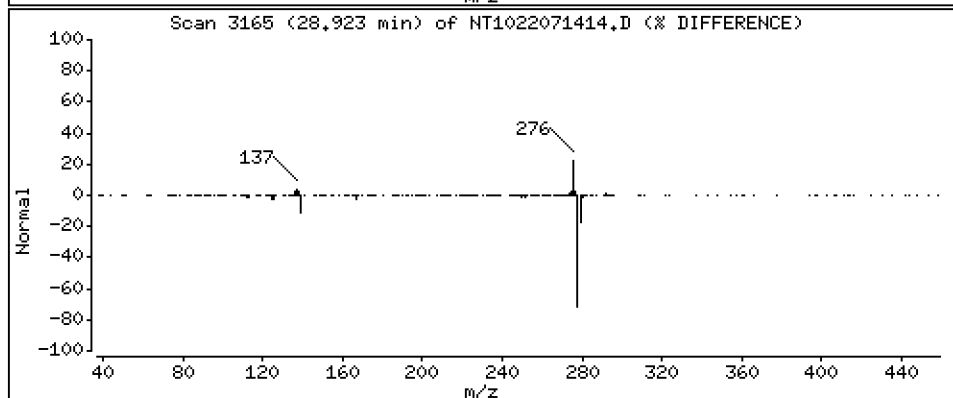
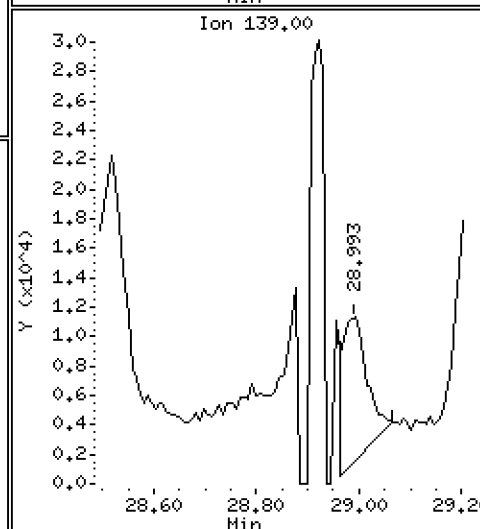
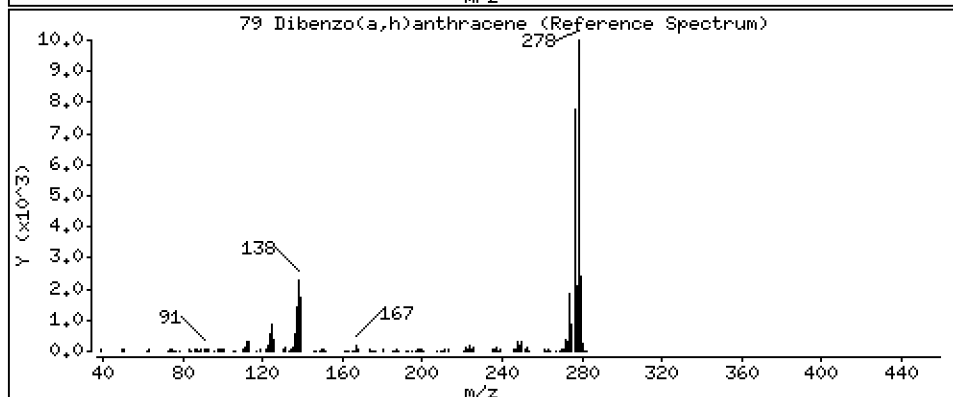
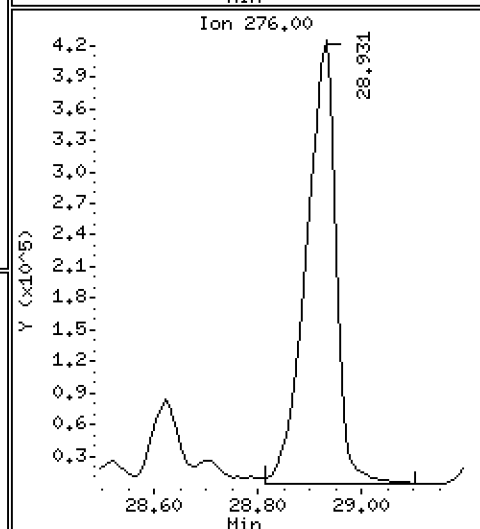
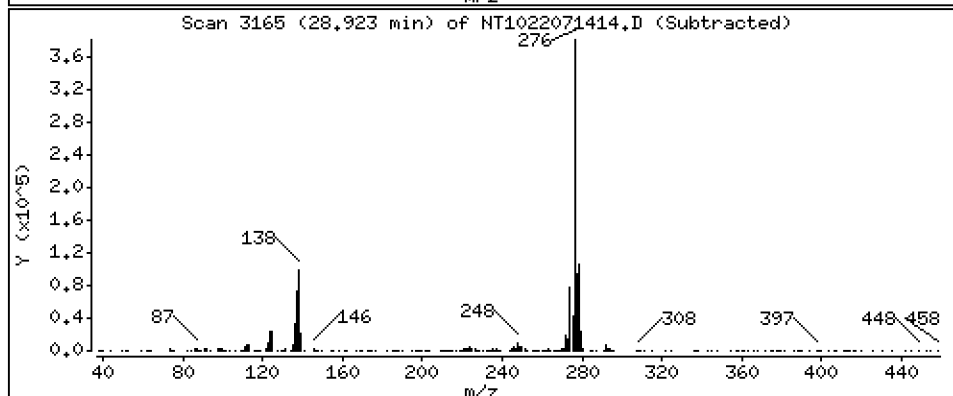
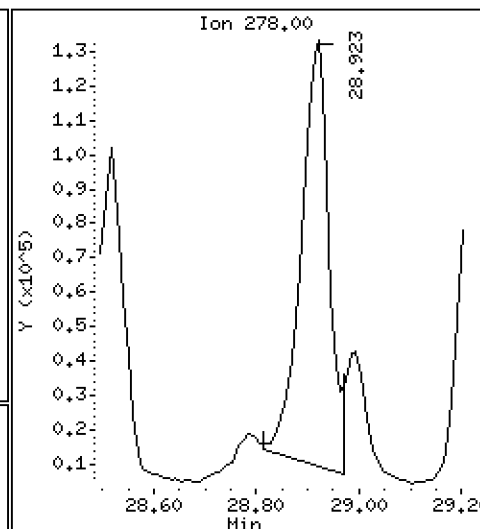
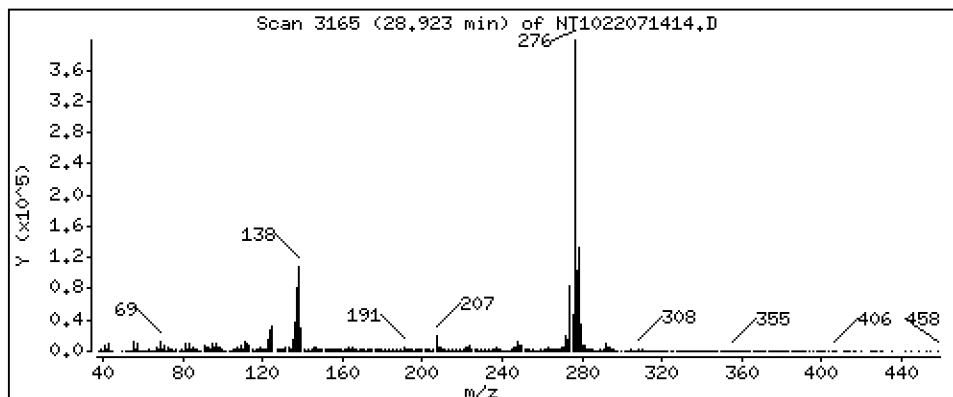
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 13,66 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08,3

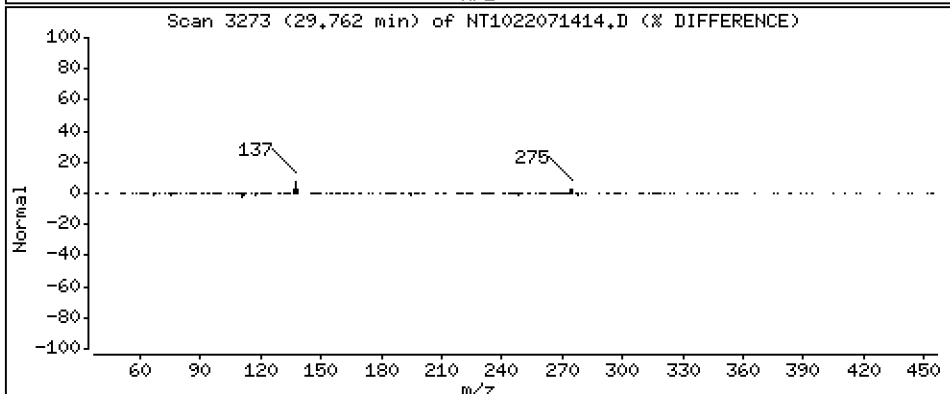
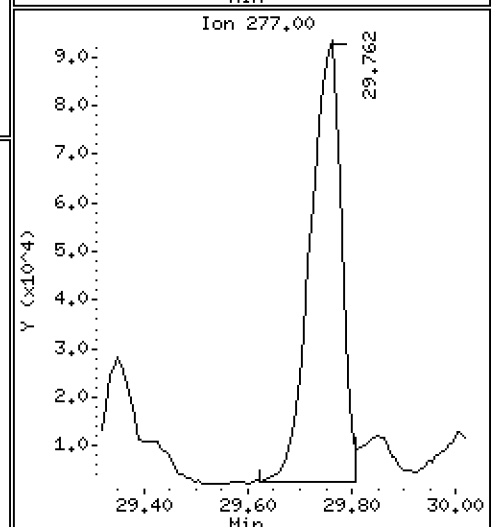
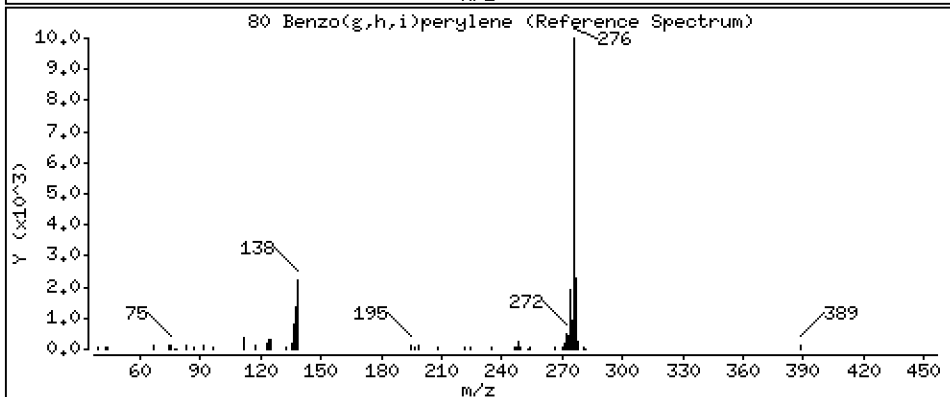
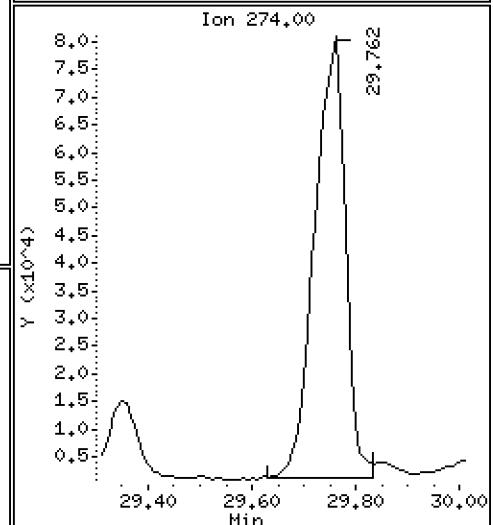
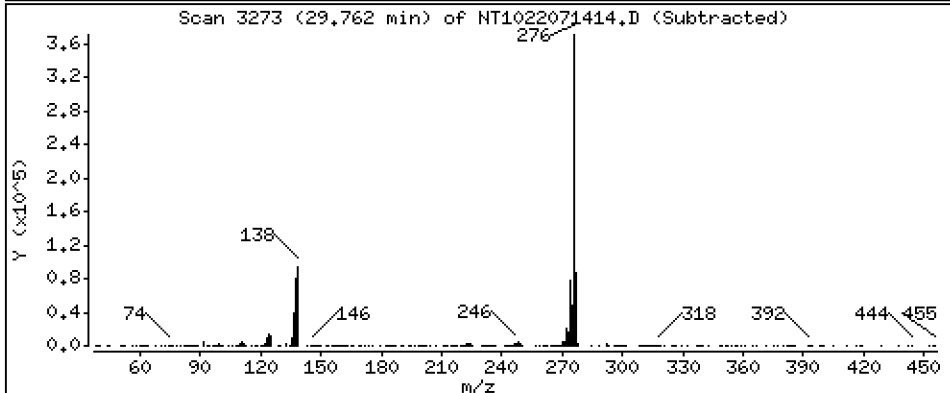
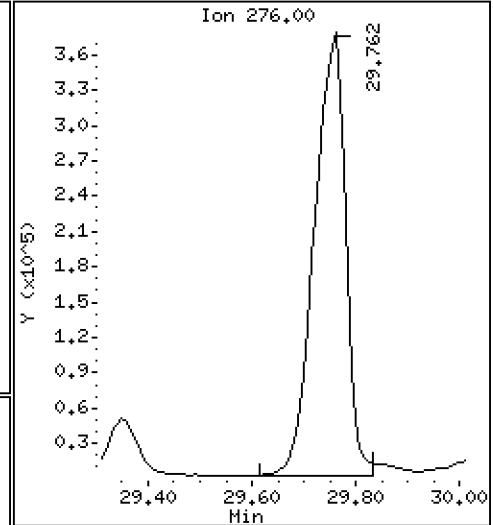
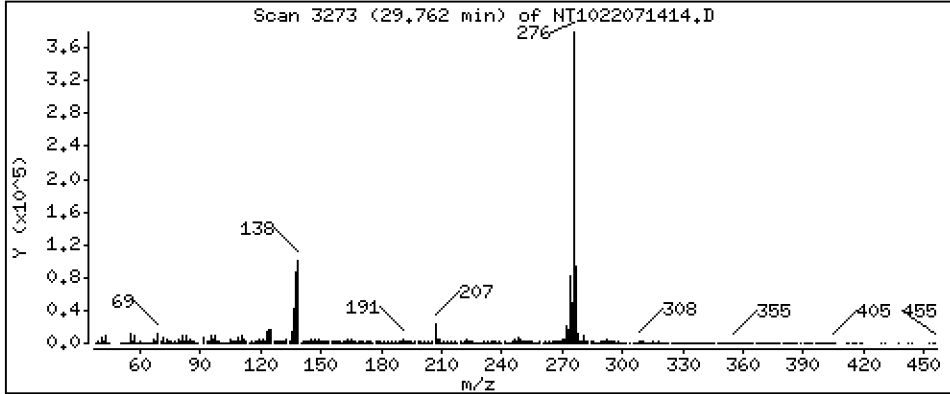
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 42,98 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

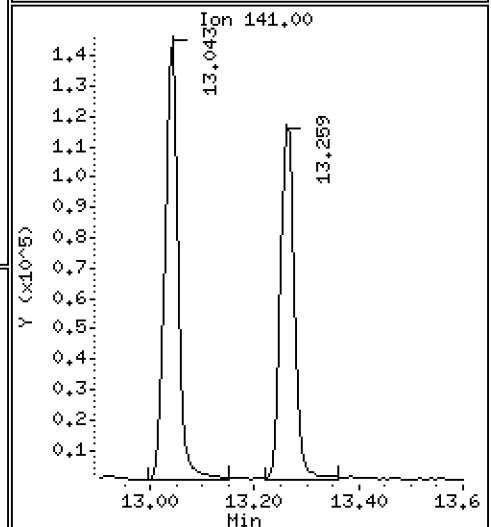
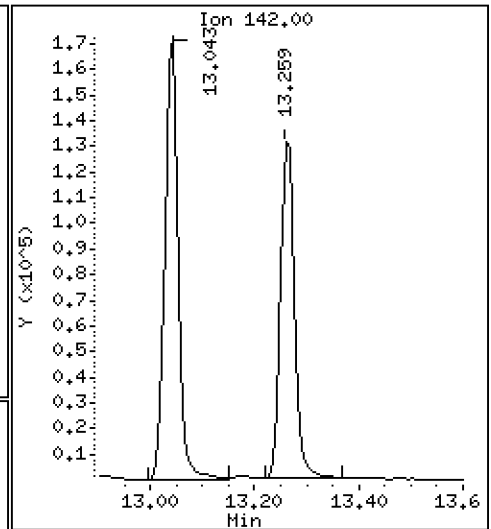
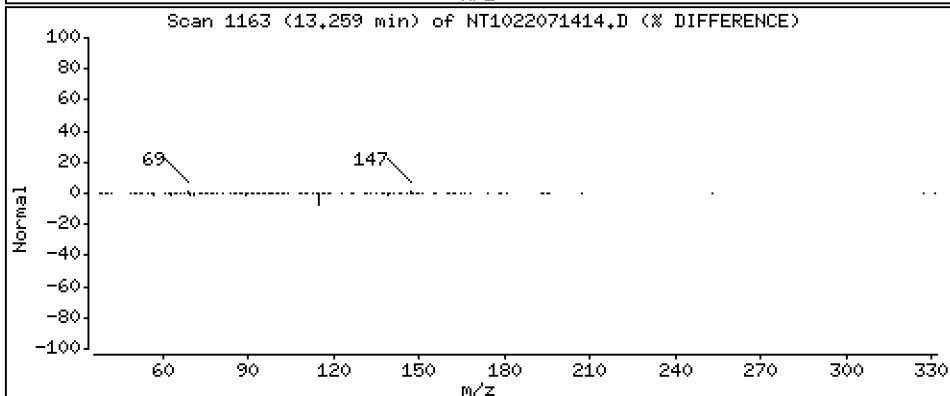
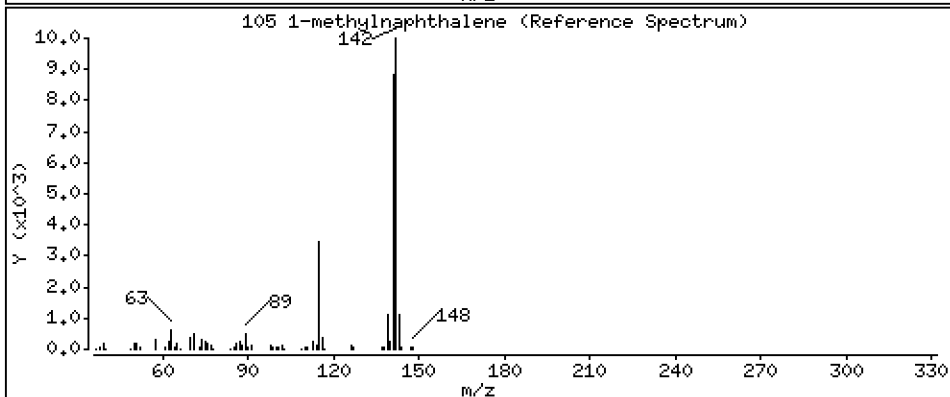
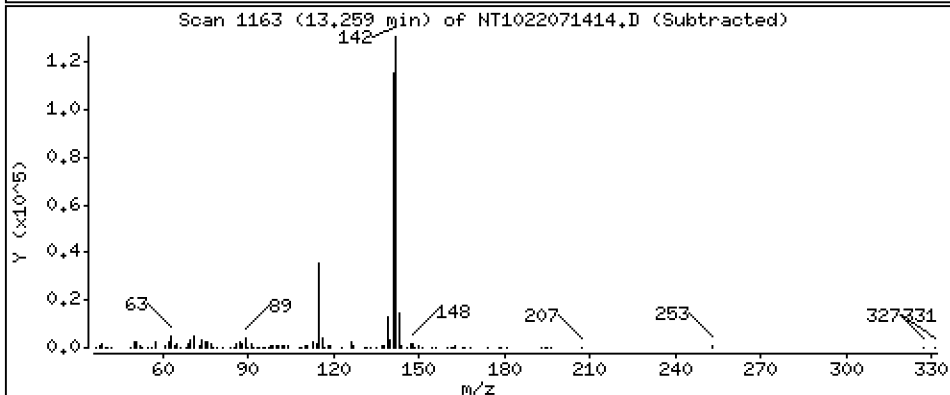
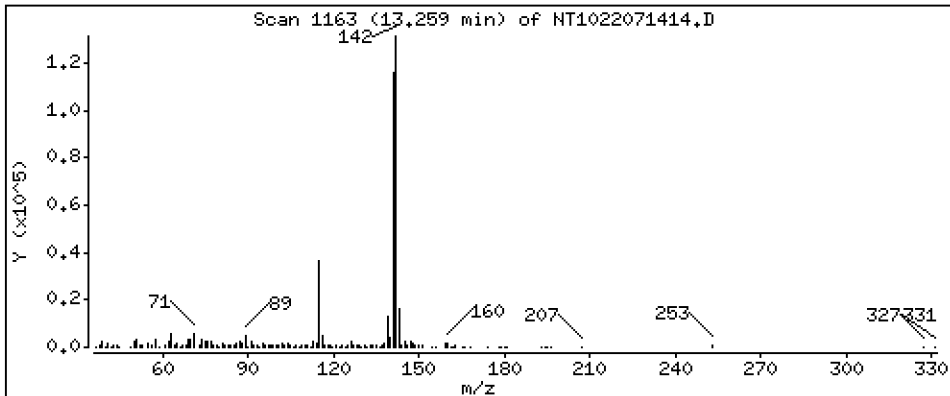
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,839 ug/mL



Date : 14-JUL-2022 22:09

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08,3

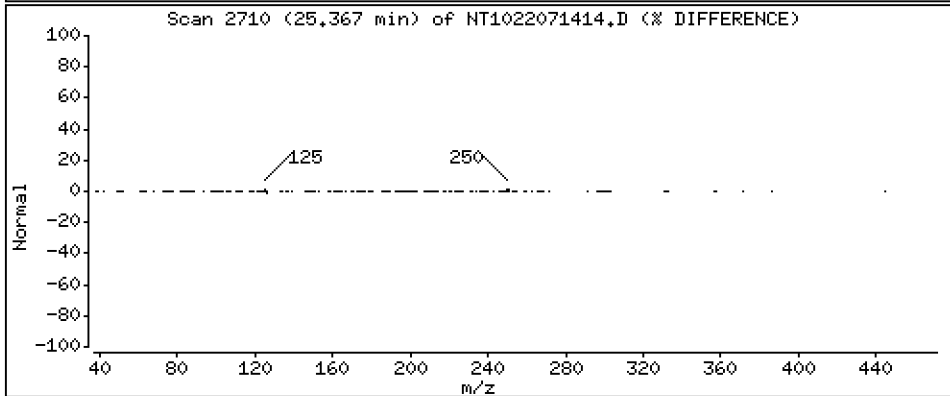
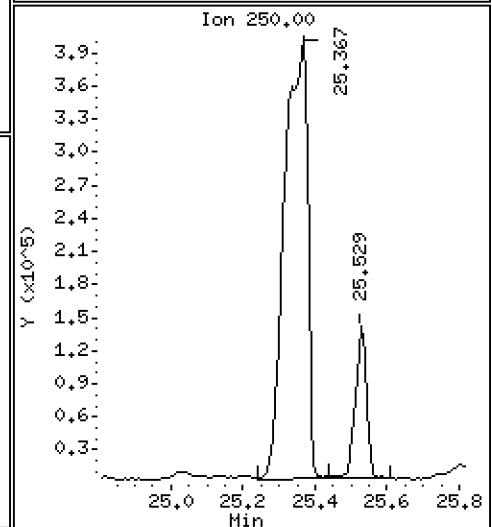
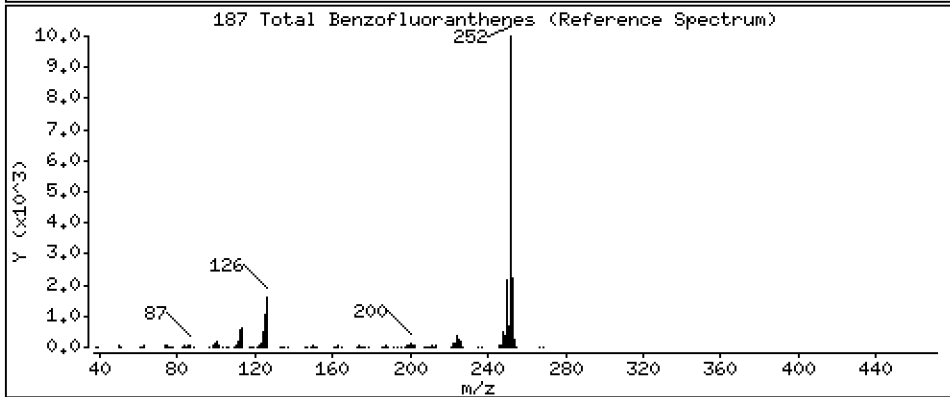
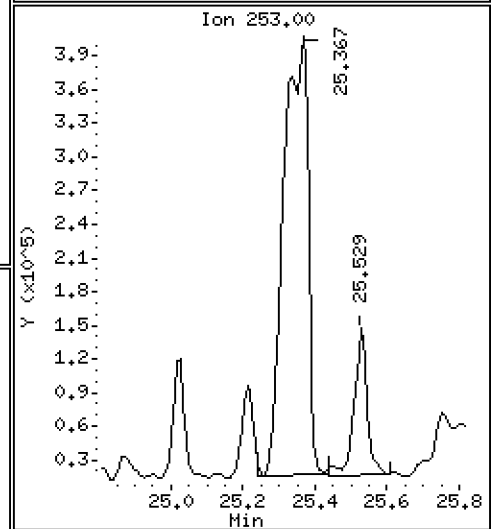
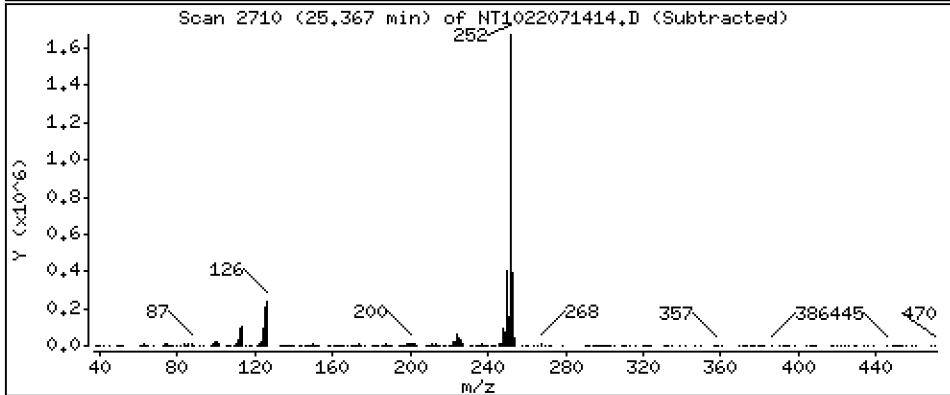
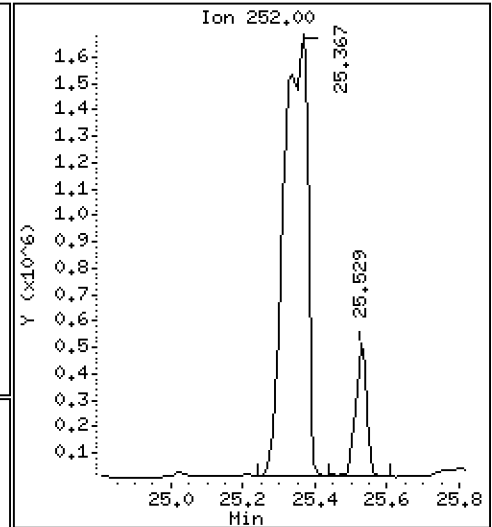
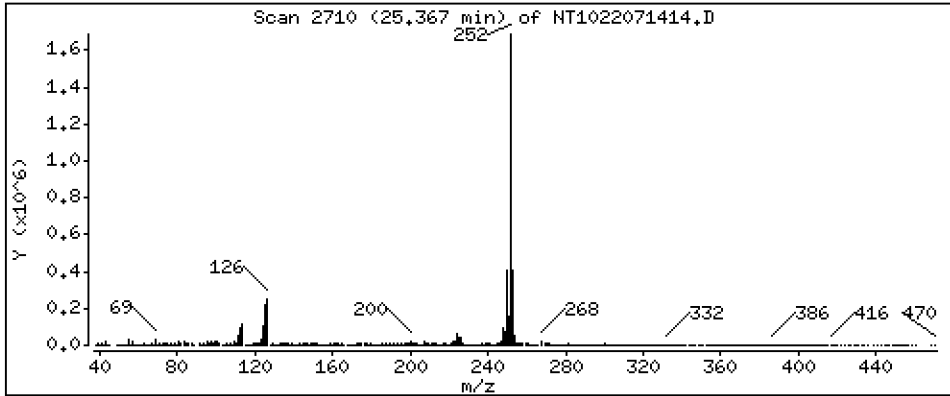
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 156,3 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071414.D
 Lab Smp Id: 22G0019-08
 Inj Date : 14-JUL-2022 22:09
 Operator : VTS
 Smp Info : 22G0019-08,3
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 14-Jul-2022 14:47 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 14
 Dil Factor: 3.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.913	6.906	(0.759)	67400	1.34650	4.040
\$ 2 Phenol-d5	99		8.513	8.490	(0.935)	76763	1.03354	3.101
3 Phenol	94		8.536	8.513	(0.937)	13174	0.20356	0.6107
\$ 5 2-Chlorophenol-d4	132		8.760	8.753	(0.962)	82944	1.62624	4.879
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.108	9.101	(1.000)	137081	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.473	9.466	(1.040)	38493	1.22478	3.674
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		9.644	9.613	(1.059)	2873	0.07200	0.2160
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.923	9.885	(1.089)	9657	0.22646	0.6794
\$ 18 Nitrobenzene-d5	82		10.203	10.195	(0.880)	45665	0.88897	2.667
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		10.969	10.927	(0.946)	4258	0.10718	0.3215
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.596	11.589	(1.000)	482760	4.00000	
28 Naphthalene	128		11.642	11.627	(1.004)	1682727	13.6194	40.86
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		13.042	13.027	(1.125)	305504	2.48793	7.464
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.816	13.809	(0.907)	229141	1.60518	4.816
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152		14.915	14.900	(0.980)	417378	2.26346	6.790
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.225	15.210	(1.000)	315452	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.294	15.279	(1.005)	926796	10.1022	30.31
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.619	15.612	(1.026)	500291	3.43137	10.29
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149		16.183	16.176	(1.063)	5987	0.06309	0.1893
49 Fluorene	166		16.338	16.323	(1.073)	1517423	8.71009	26.13
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.885	16.870	(1.109)	43769	3.06527	9.196
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.292	18.269	(1.000)	551296	4.00000	
60 Phenanthrene	178		18.362	18.316	(1.004)	12104863	83.5763	250.7
61 Anthracene	178		18.447	18.416	(1.008)	4228421	27.3957	82.19
62 Carbazole	167		18.772	18.757	(1.026)	473084	3.32240	9.967
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.783	20.722	(0.888)	16840442	33.8079	101.4
65 Pyrene	202		21.209	21.147	(0.906)	17230661	27.0809	81.24
\$ 66 Terphenyl-d14	244		21.456	21.434	(0.917)	206493	1.71701	5.151
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.377	23.331	(0.999)	6020901	41.2301	123.7
* 69 Chrysene-d12	240		23.400	23.362	(1.000)	344622	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.454	23.408	(1.002)	5179921	24.2435	72.73
72 bis(2-Ethylhexyl)phthalate	149							
* 134 Di-n-octylphthalate-d4	153		24.437	24.407	(1.000)	500285	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.335	25.266	(0.970)	4754852	30.4041	91.21
75 Benzo(k)fluoranthene	252		25.366	25.313	(0.971)	3464773	23.0400	69.12 (M)
76 Benzo(a)pyrene	252		26.025	25.948	(0.996)	5339335	41.7151	125.1
* 77 Perylene-d12	264		26.118	26.064	(1.000)	345317	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.930	28.845	(1.108)	1659144	12.1405	36.42
79 Dibenzo(a,h)anthracene	278		28.922	28.853	(1.107)	476386	4.55350	13.66 (M)
80 Benzo(g,h,i)perylene	276		29.761	29.661	(1.140)	1564924	14.3251	42.98
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.259	13.252	(1.143)	234825	1.94649	5.839
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.366	25.313	(0.971)	7595859	52.0924	156.3	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071414.D Calibration Time: 14:12
 Lab Smp Id: 22G0019-08
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	137081	-30.00
27 Naphthalene-d8	626038	313019	1252076	482760	-22.89
42 Acenaphthene-d10	366612	183306	733224	315452	-13.95
59 Phenanthrene-d10	635137	317569	1270274	551296	-13.20
69 Chrysene-d12	270778	135389	541556	344622	27.27
134 Di-n-octylphthala	507031	253516	1014062	500285	-1.33
77 Perylene-d12	170107	85054	340214	345317	103.00 <-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.11	0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.06
42 Acenaphthene-d10	15.21	14.71	15.71	15.23	0.10
59 Phenanthrene-d10	18.27	17.77	18.77	18.29	0.12
69 Chrysene-d12	23.36	22.86	23.86	23.40	0.16
134 Di-n-octylphthala	24.41	23.91	24.91	24.44	0.13
77 Perylene-d12	26.06	25.56	26.56	26.12	0.21

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

REVIEW SUMMARY FOR FILE - NT1022071414.D

Lab ID: 22G0019-08
nt10.i, ABN.m, 14-JUL-2022 22:09

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022071402.D

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

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

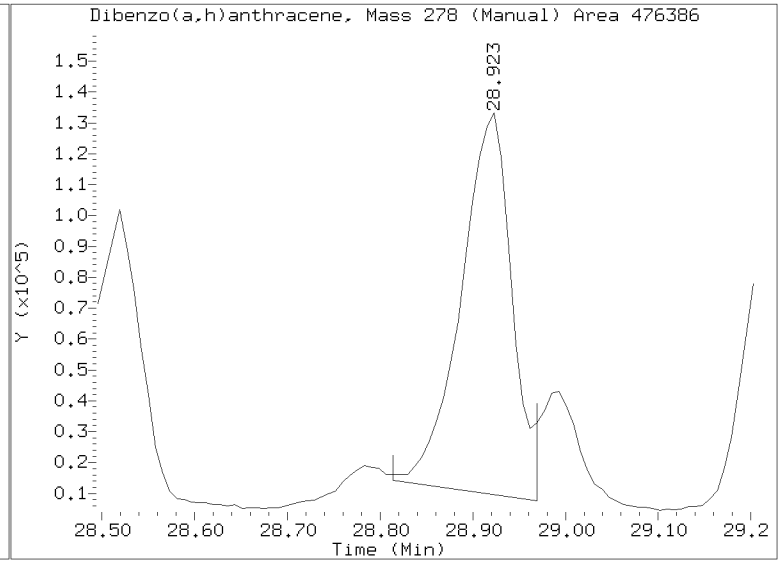
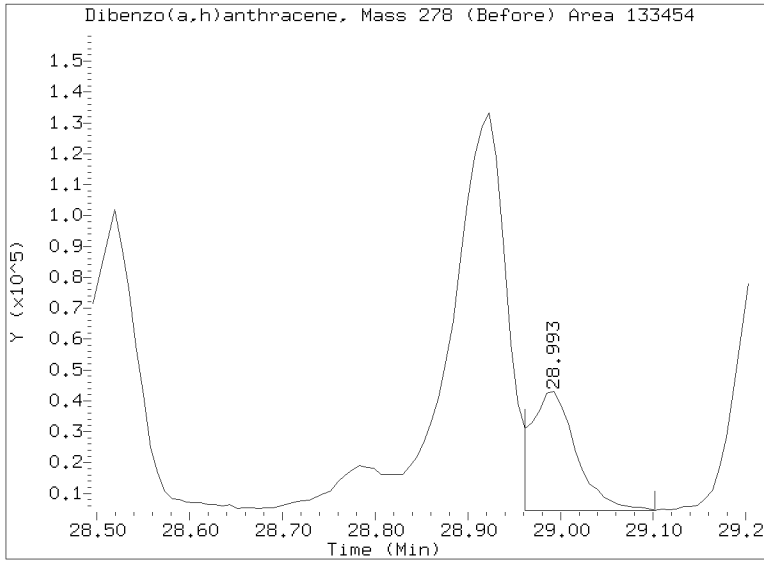
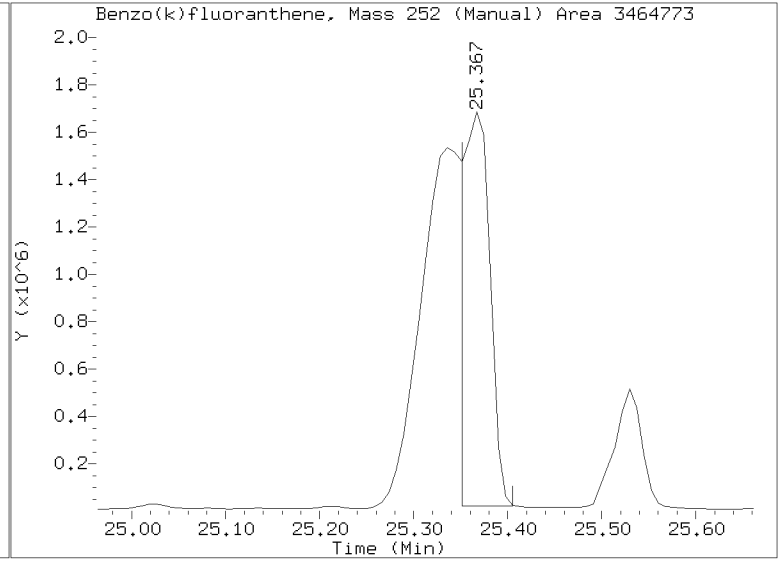
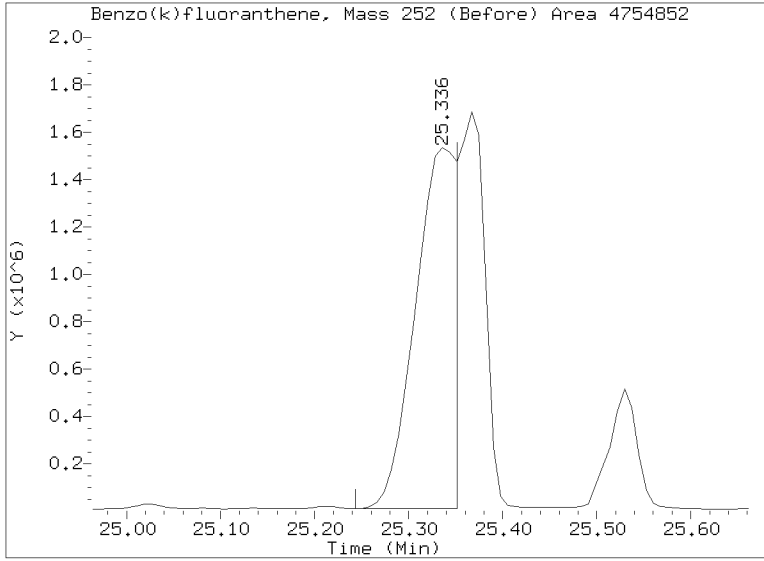
Quant Ion Manual Peak Adjustment Report

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Injection Date: 14-JUL-2022 22:09

Lab ID:22G0019-08 Client ID:

Report Date: 07/19/2022 12:56





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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-08RE1 A

SDG: 22G0019

Sampled: 06/28/22 12:15

Prepared: 07/07/22 10:01

File ID: NT1022071515.D

% Solids: 57.29

Preparation: EPA 3546 (Microwave)

Analyzed: 07/15/22 21:18

Batch: BKG0069

Sequence: SKG0154

Initial/Final: 17.49 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	10	4350	D	42.3	200
91-57-6	2-Methylnaphthalene	10	692	D	45.0	200
83-32-9	Acenaphthene	10	3300	D	52.1	200
87-86-5	Pentachlorophenol	10	312	U	312	998
85-01-8	Phenanthrene	10	32400	D, E	87.0	200
206-44-0	Fluoranthene	10	33700	Q, D, E	60.8	200
56-55-3	Benzo(a)anthracene	10	14500	D	59.5	200
218-01-9	Chrysene	10	15200	Q, D	60.5	200
205-99-2	Benzo(b)fluoranthene	10	8360	D	70.1	200
207-08-9	Benzo(k)fluoranthene	10	9520	D	50.0	200
50-32-8	Benzo(a)pyrene	10	14400	D	42.2	200
193-39-5	Indeno(1,2,3-cd)pyrene	10	6720	D	146	200
53-70-3	Dibenzo(a,h)anthracene	10	2500	D	172	200
90-12-0	1-Methylnaphthalene	10	562	D	52.5	200

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.50	523	69.9	27 - 120	
Phenol-d5	748.50	458	61.2	29 - 120	
2-Chlorophenol-d4	748.50	637	85.0	31 - 120	
1,2-Dichlorobenzene-d4	499.00	390	78.2	32 - 120	
Nitrobenzene-d5	499.00	406	81.4	30 - 120	
2-Fluorobiphenyl	499.00	554	111	35 - 120	
2,4,6-Tribromophenol	748.50	472	63.1	24 - 134	
p-Terphenyl-d14	499.00	669	134	37 - 120	Q

Data File: \\target\share\chem3\nt10,1\20220715,6\NT1022071515.D

Date : 15-JUL-2022 21:18

Client ID:

Sample Info: 22C0019-08REL,10

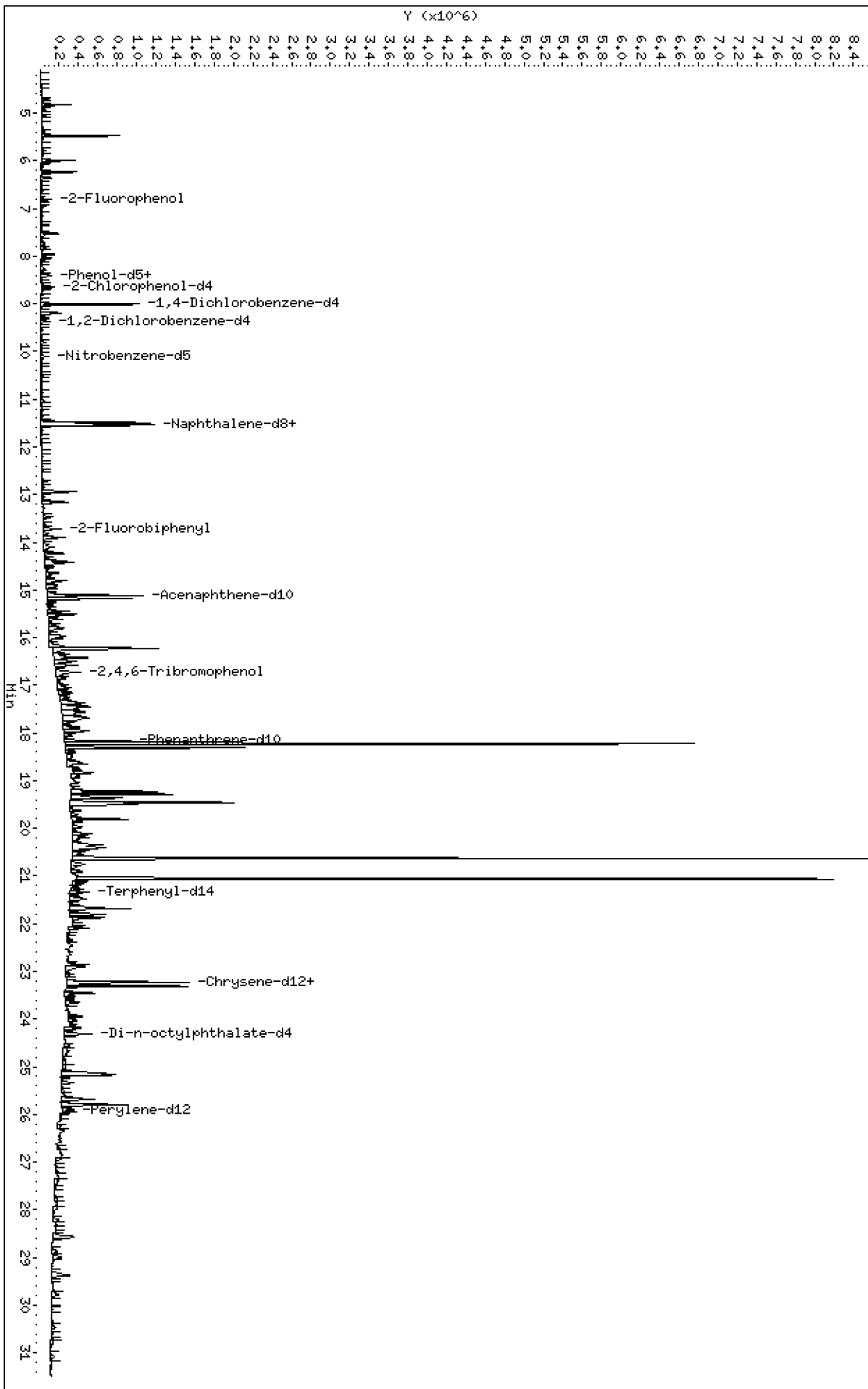
Instrument: nt10,1

Operator: VTS

Column diameter: 0,25

Column phase: ZB-5msi

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Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

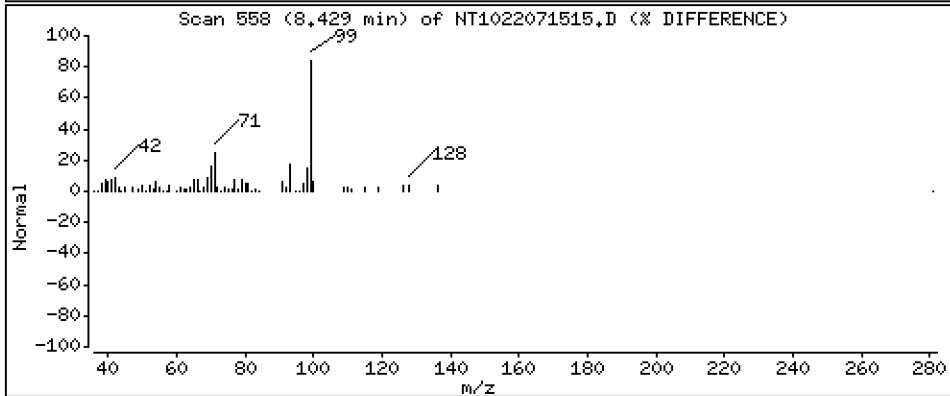
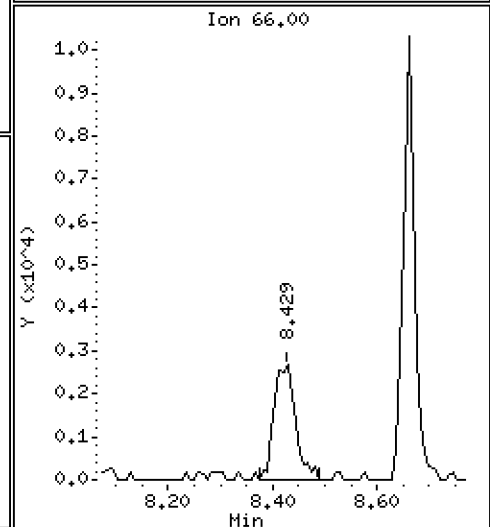
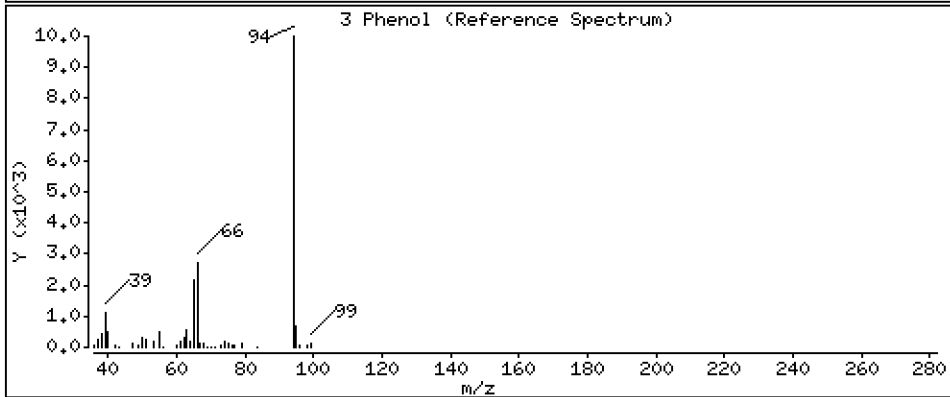
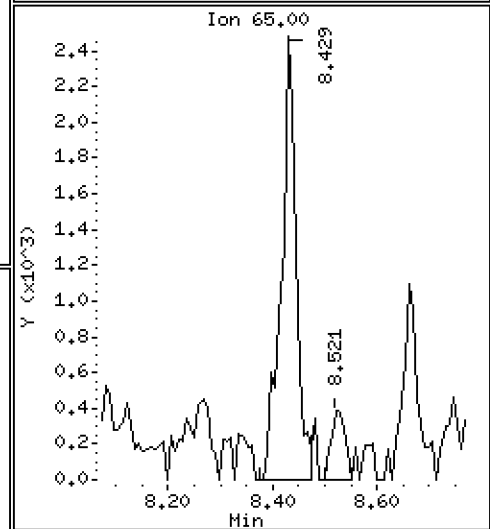
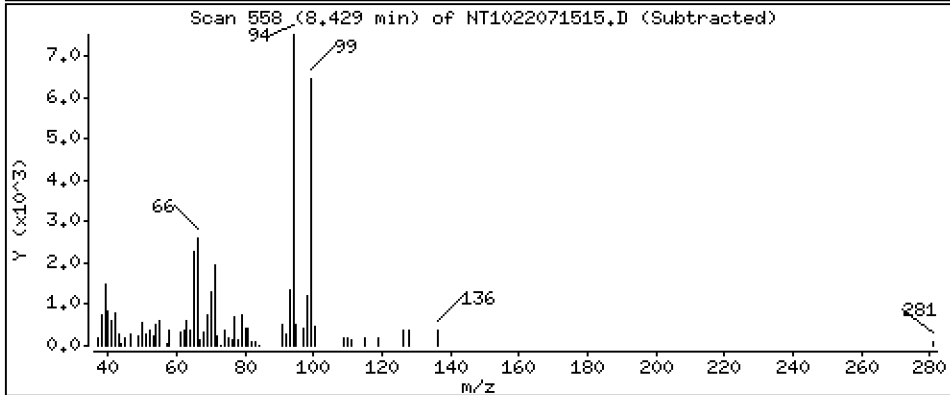
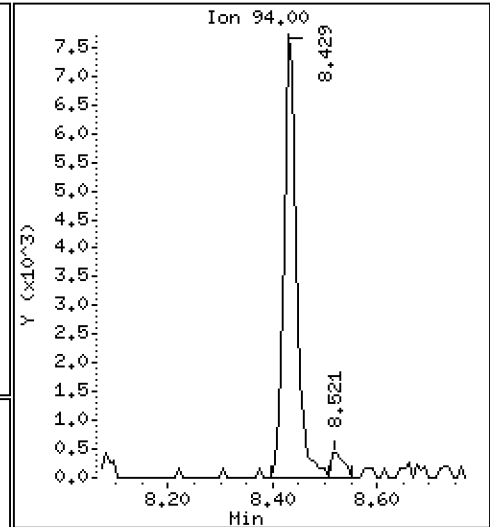
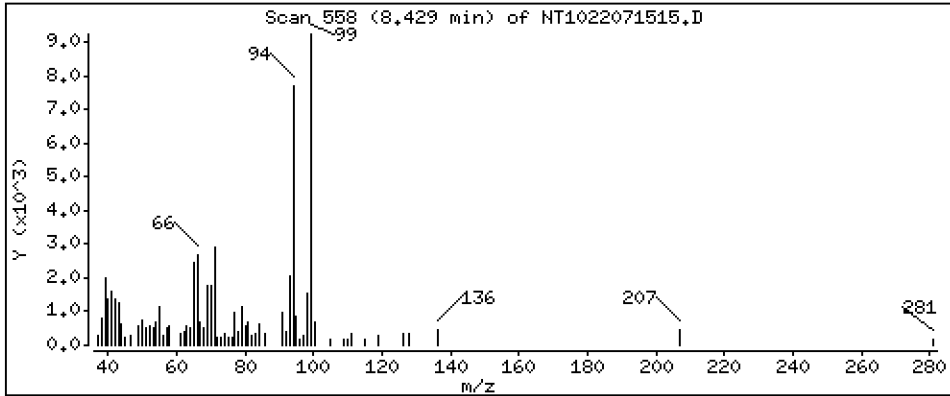
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,9649 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

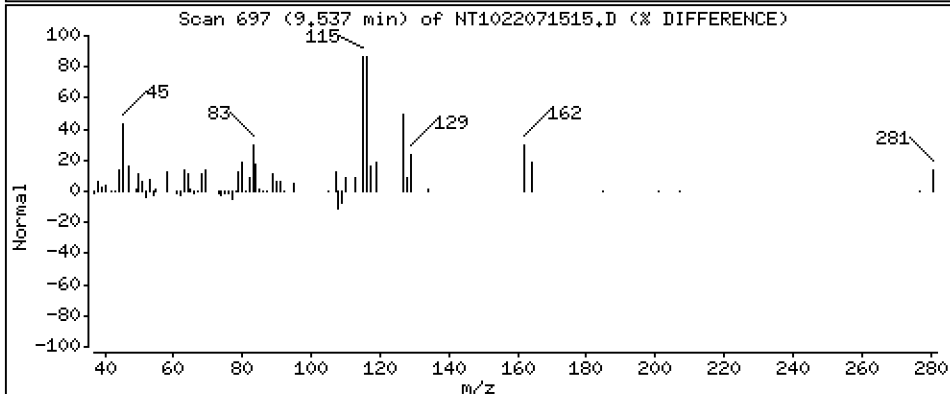
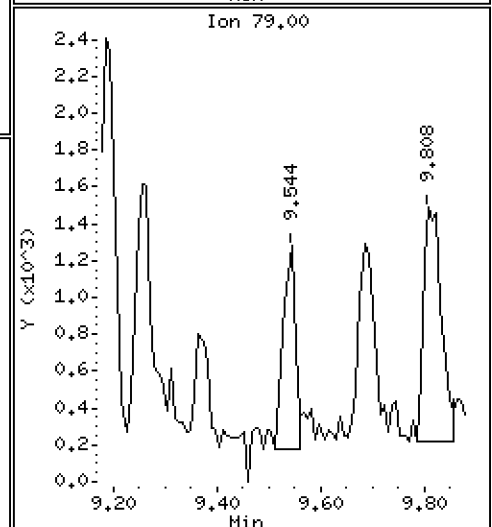
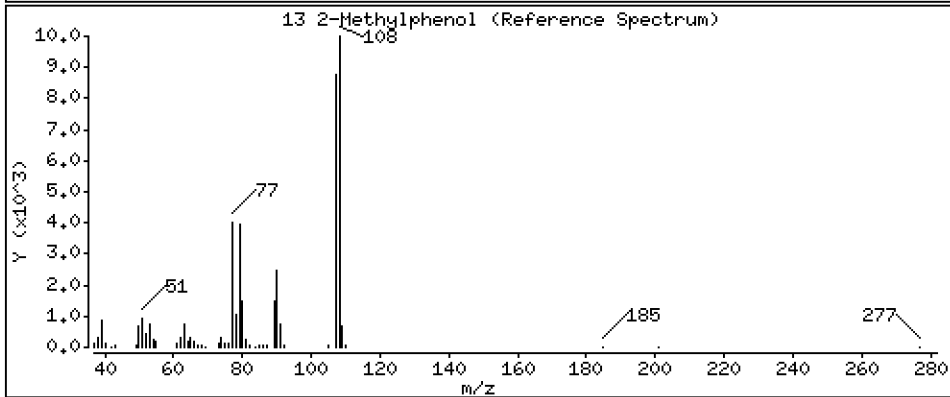
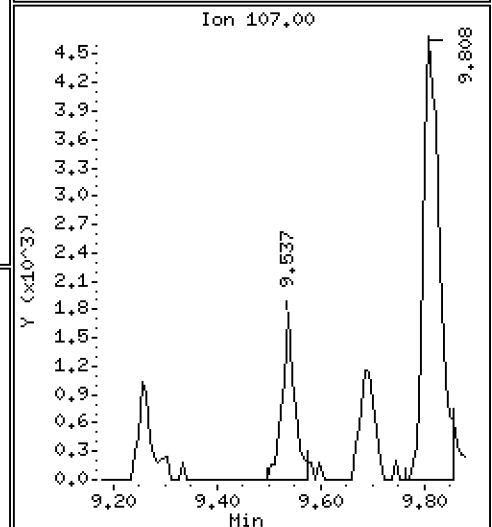
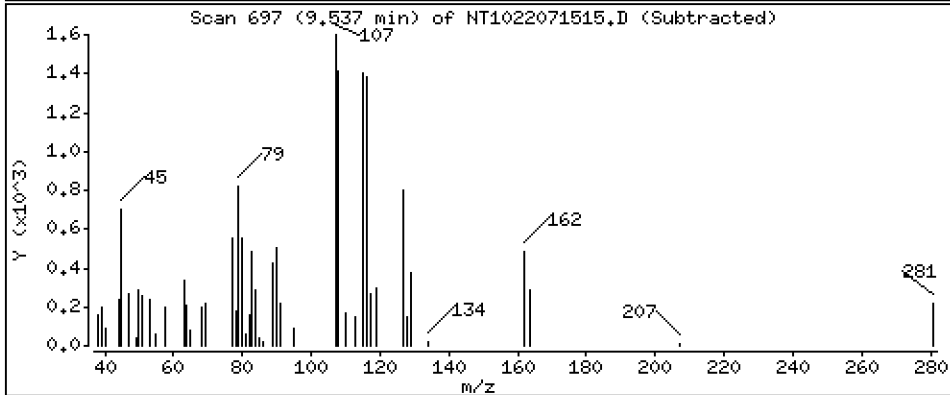
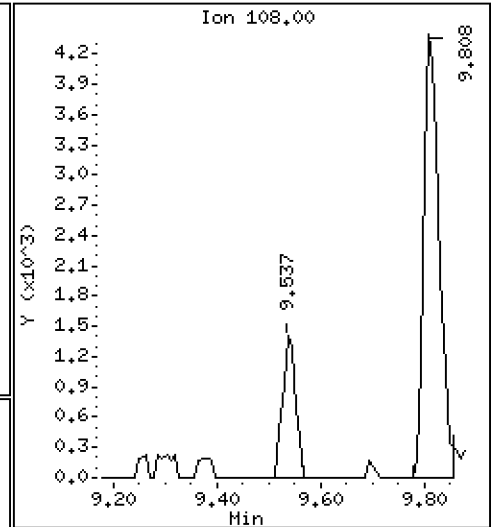
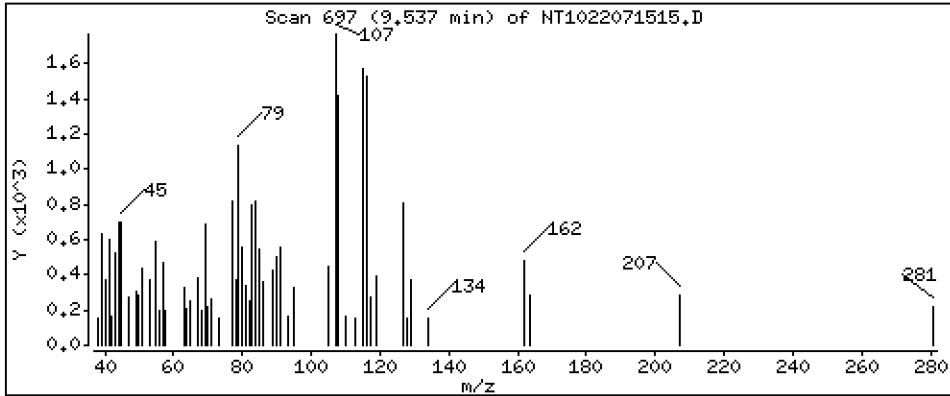
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,2893 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08RE1,10

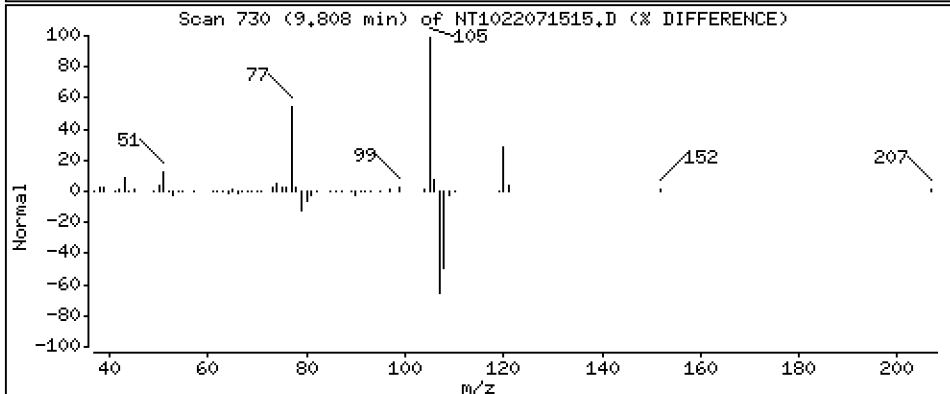
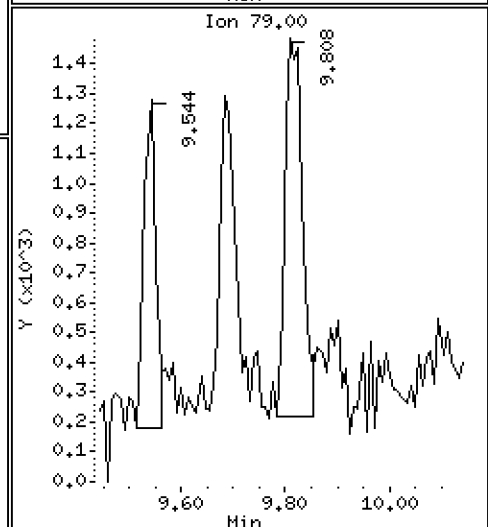
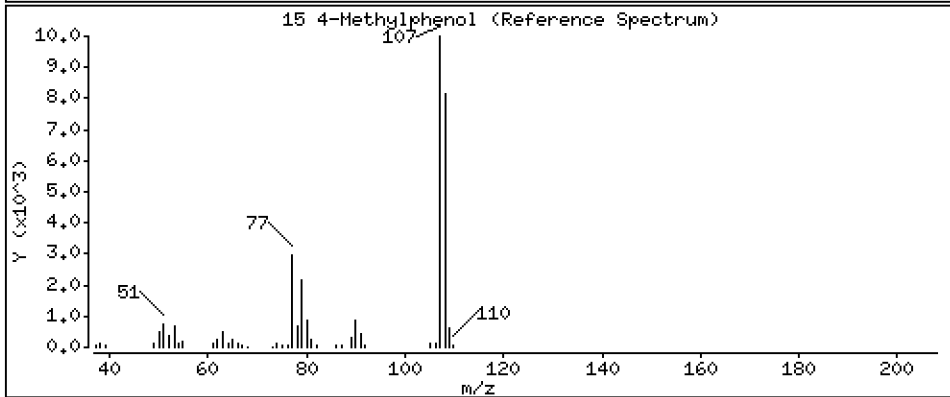
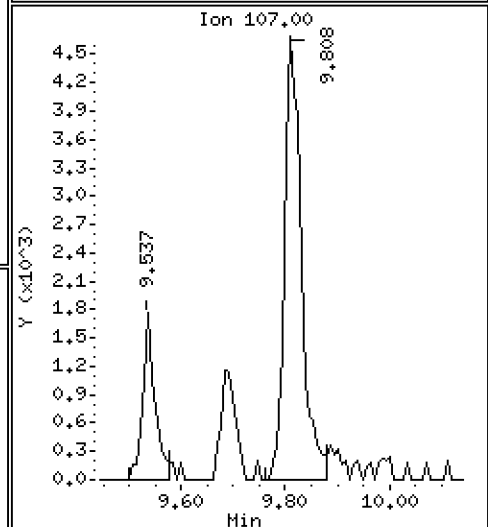
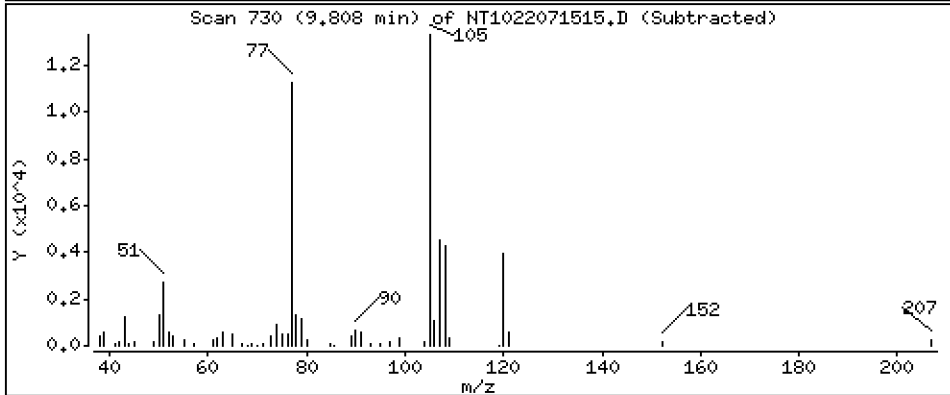
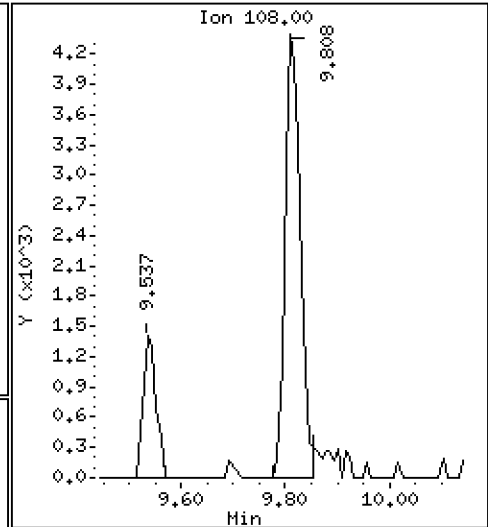
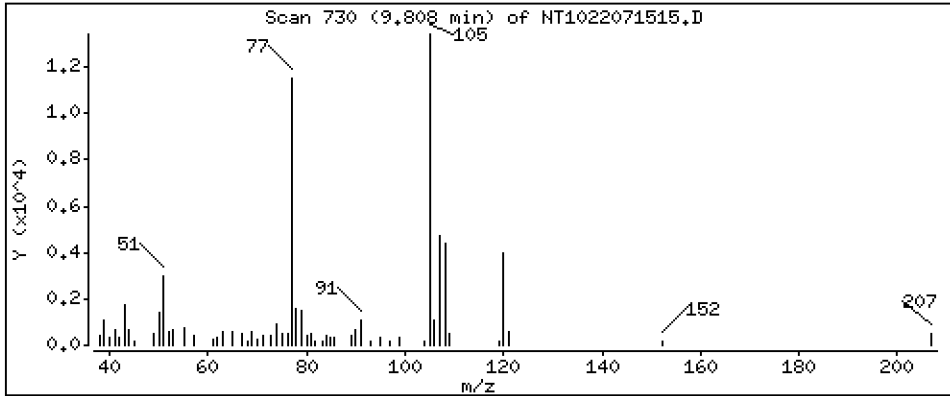
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 1,044 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

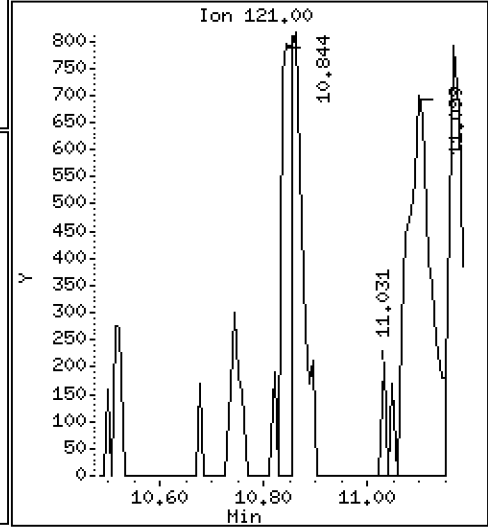
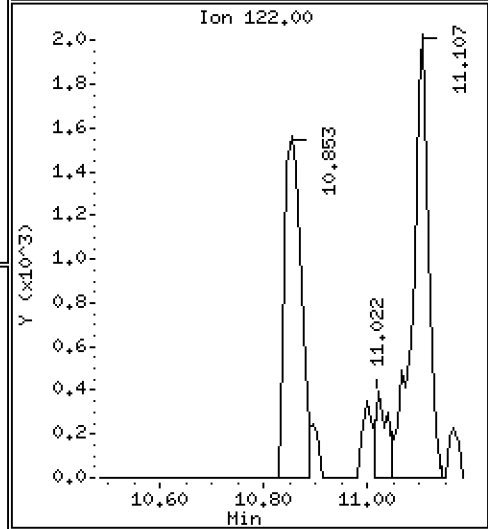
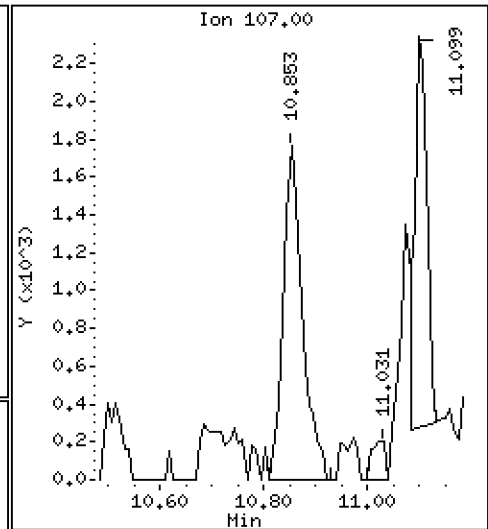
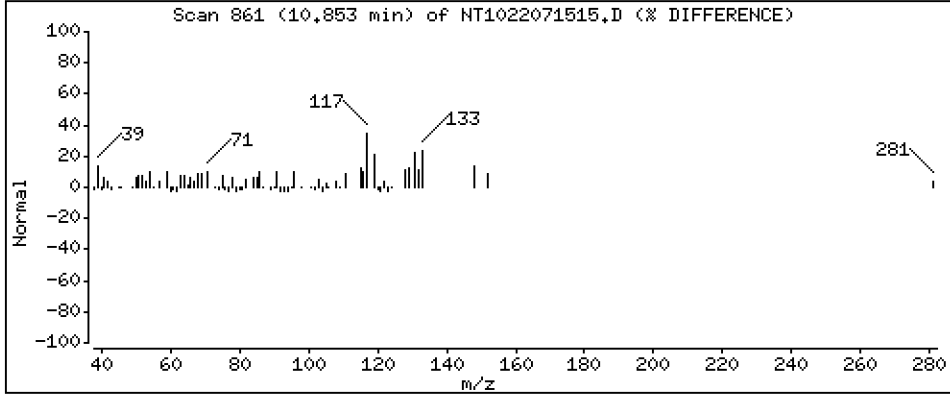
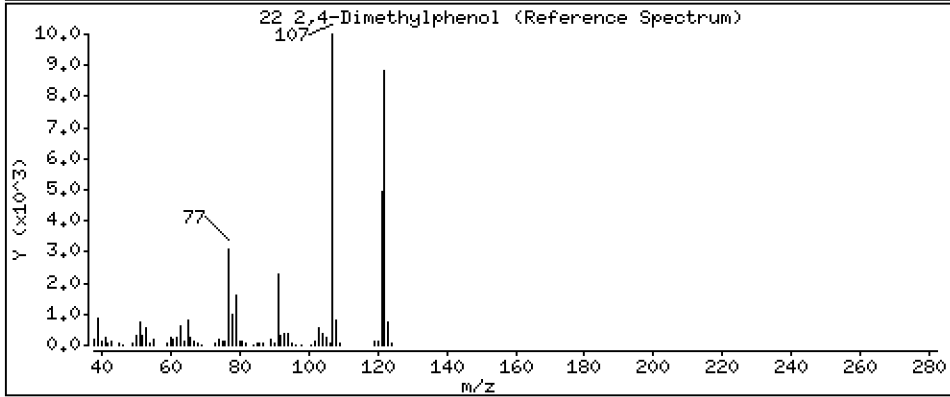
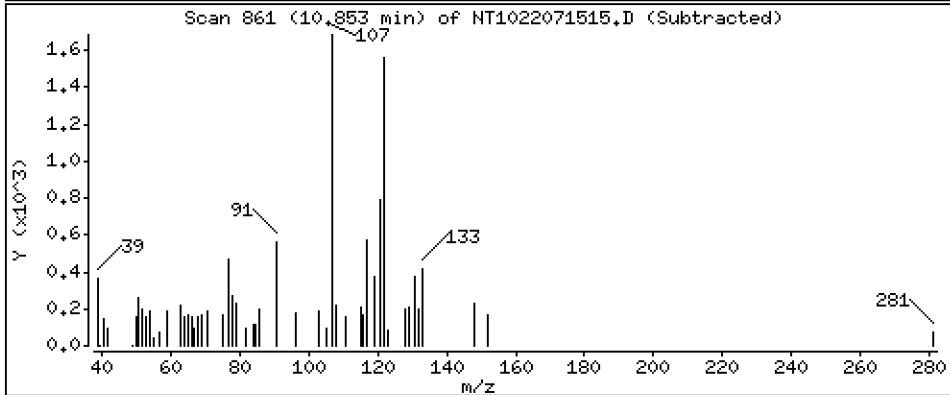
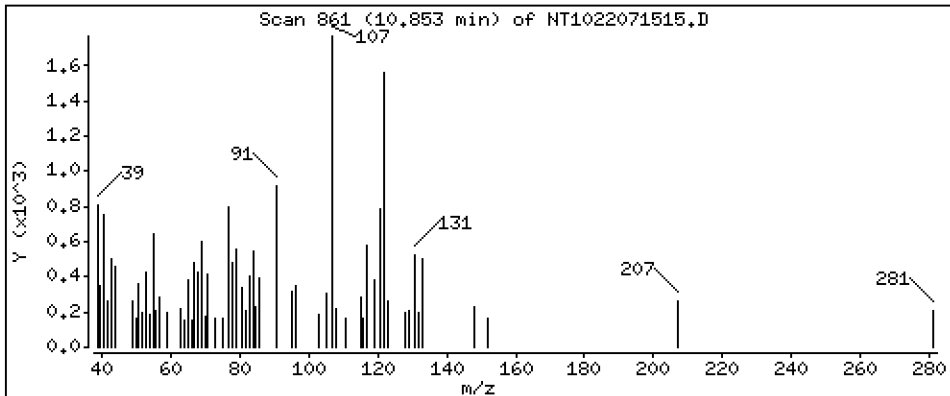
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,6155 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08RE1,10

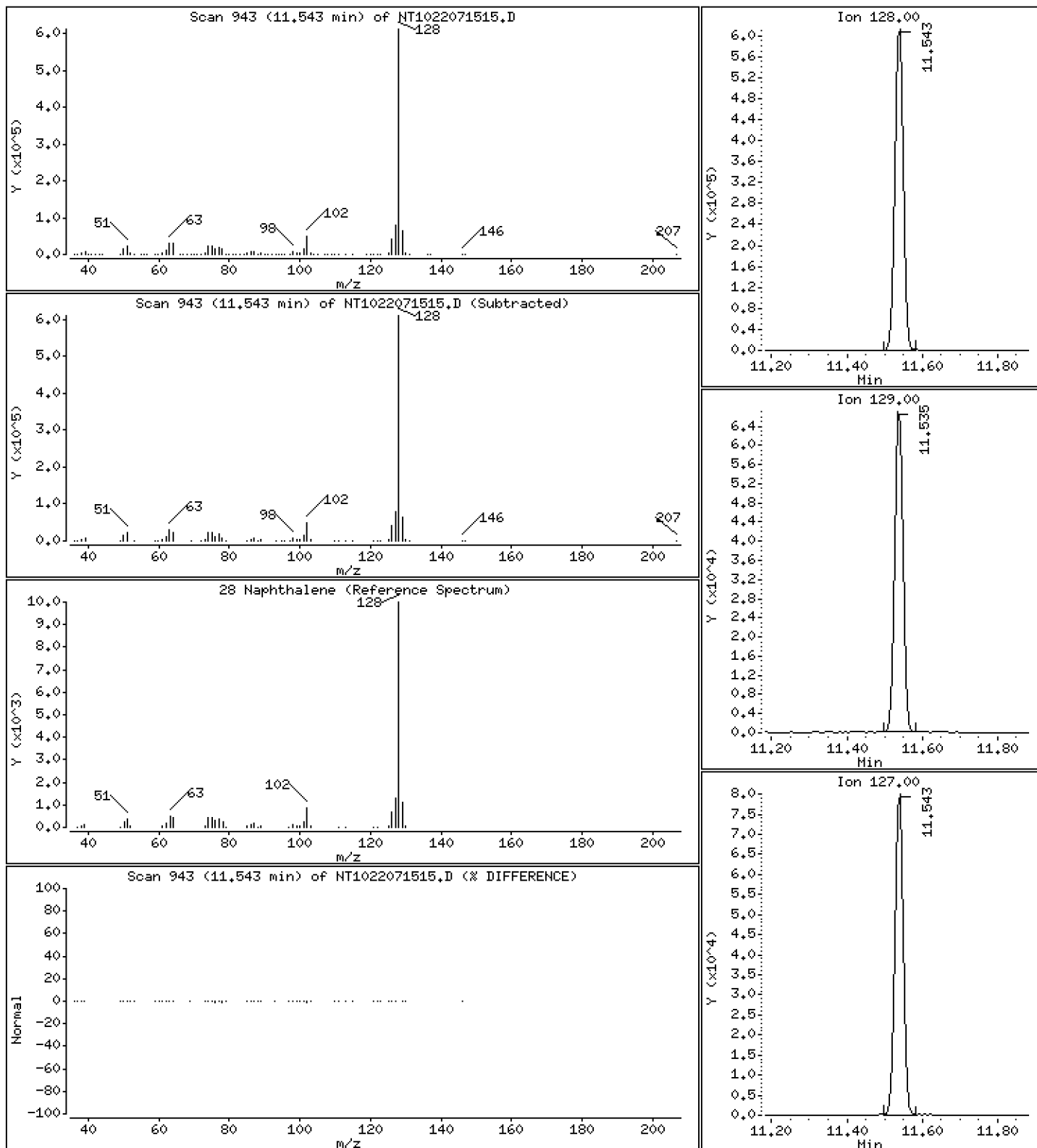
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 43,59 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

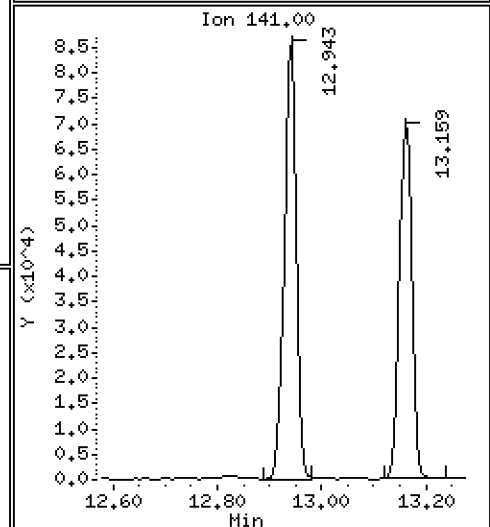
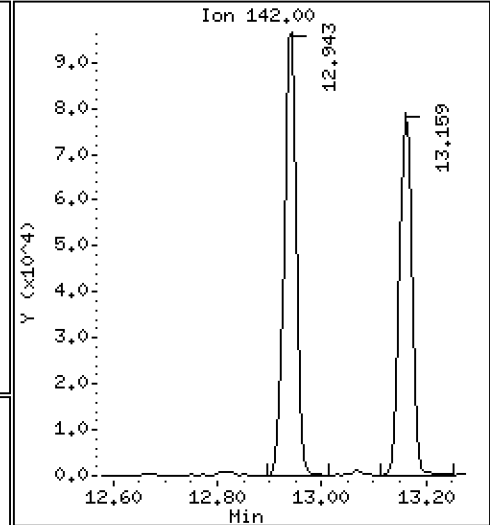
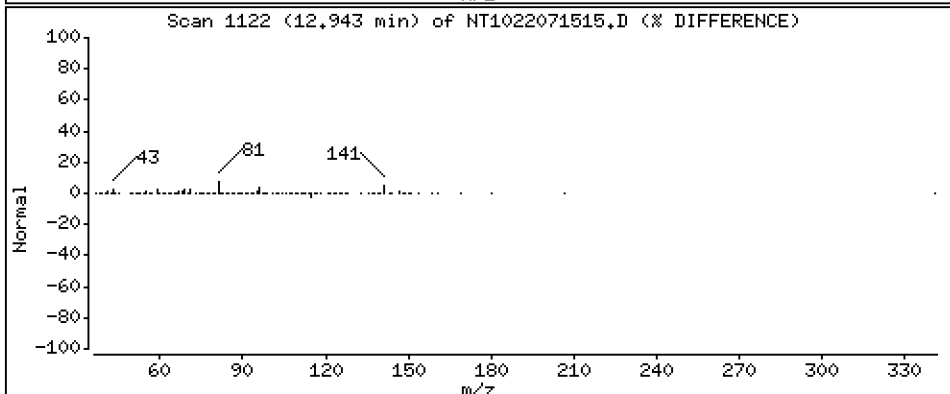
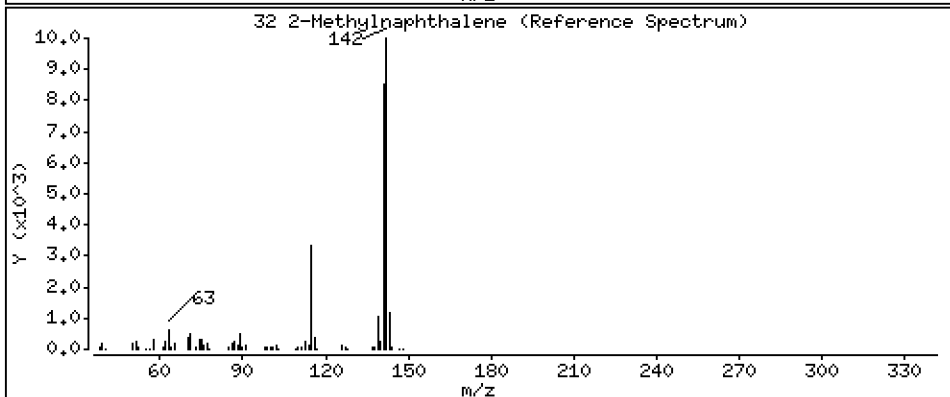
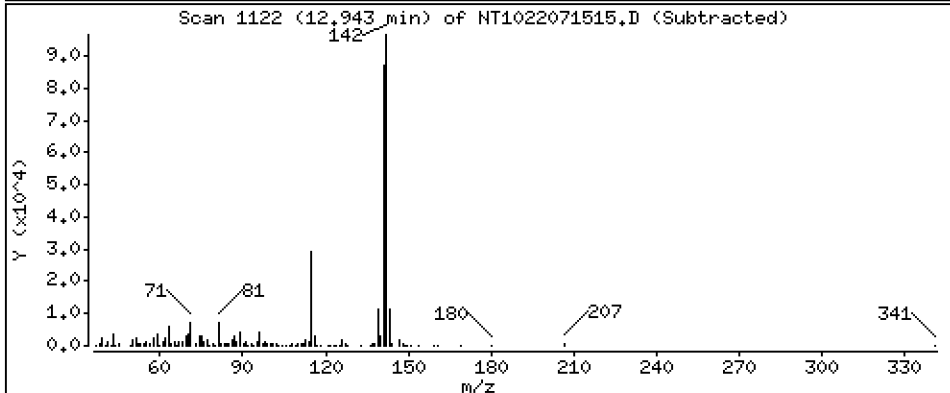
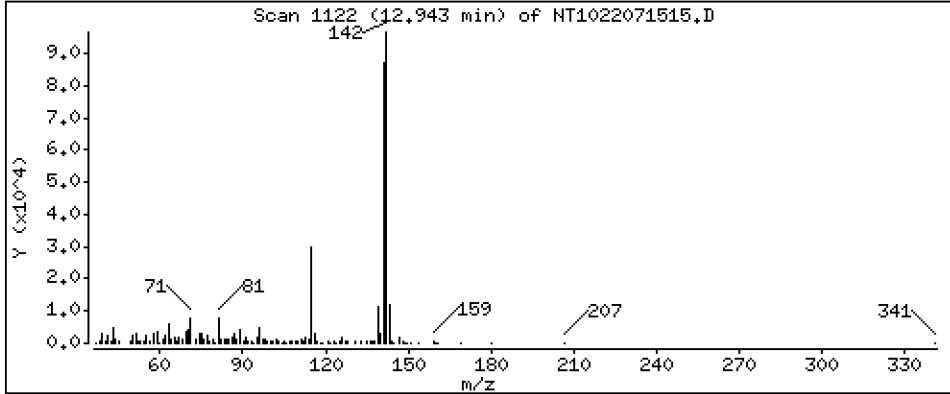
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 6,931 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

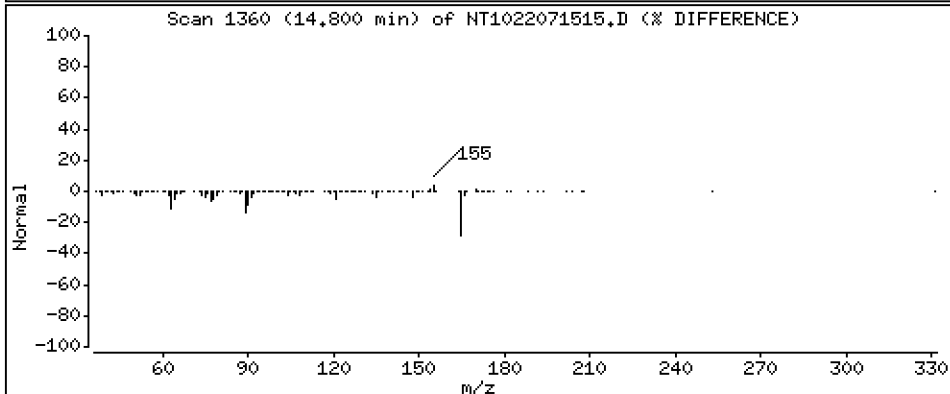
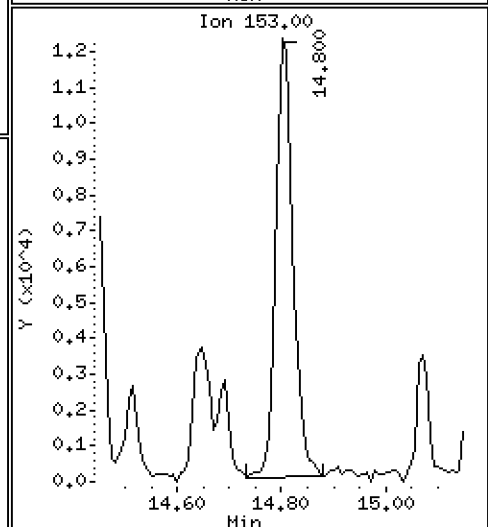
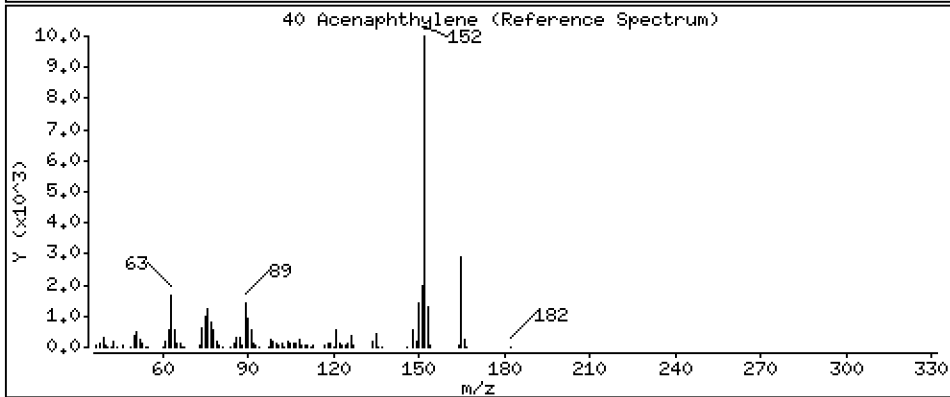
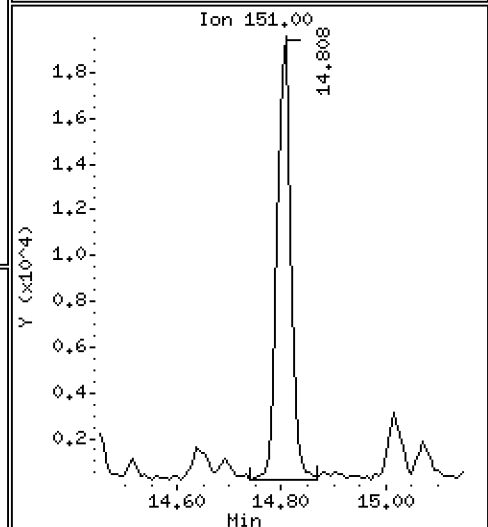
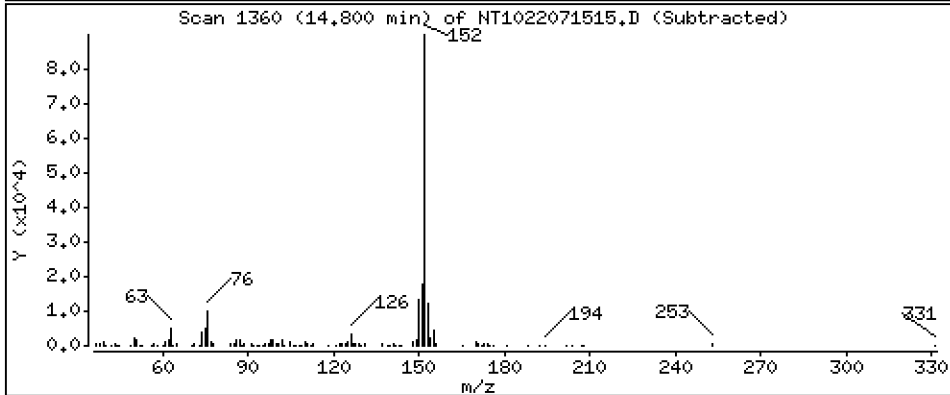
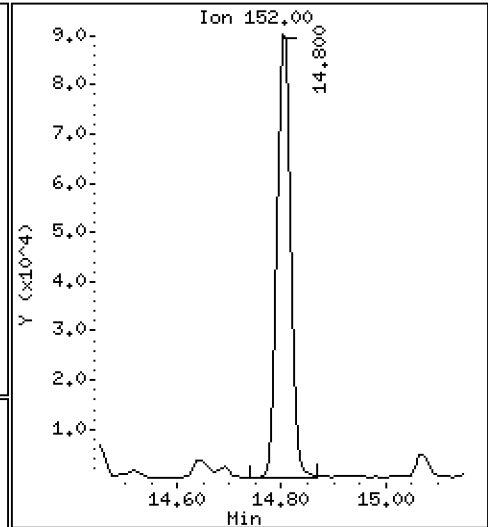
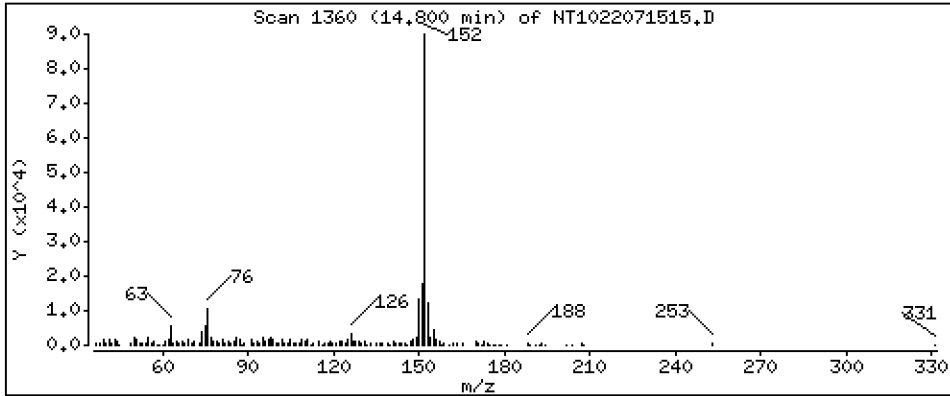
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 6,649 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08RE1,10

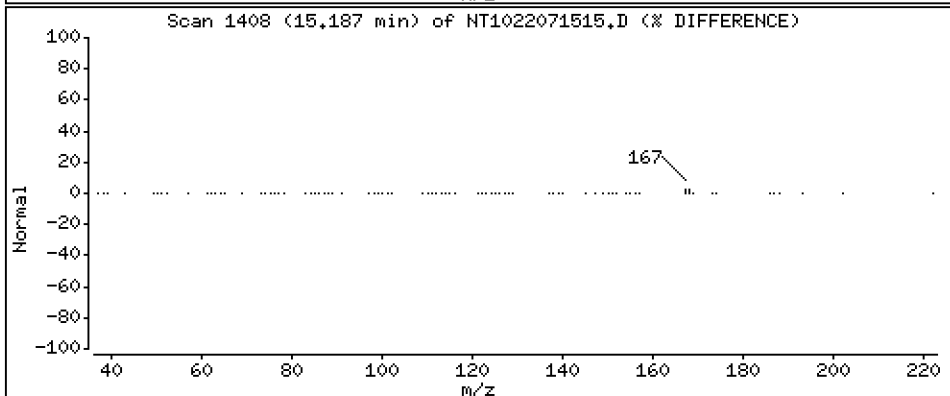
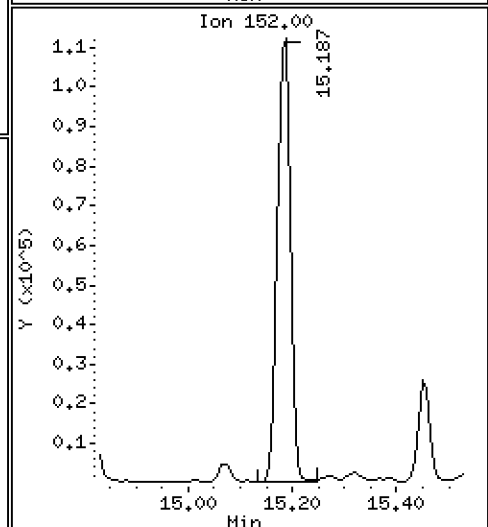
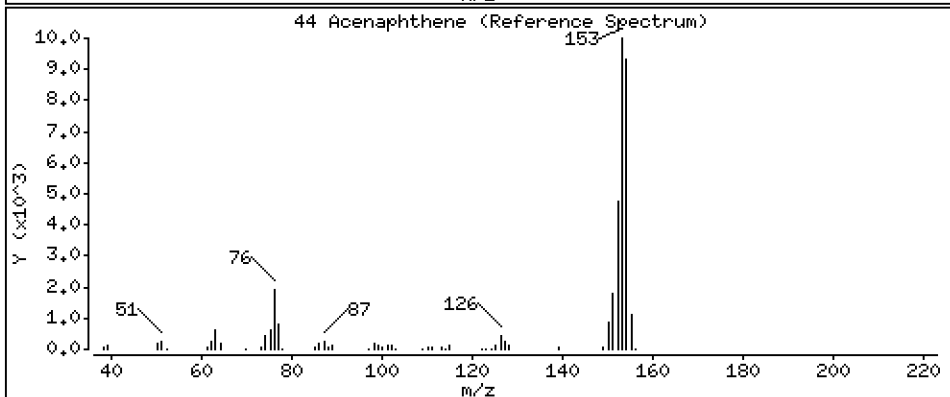
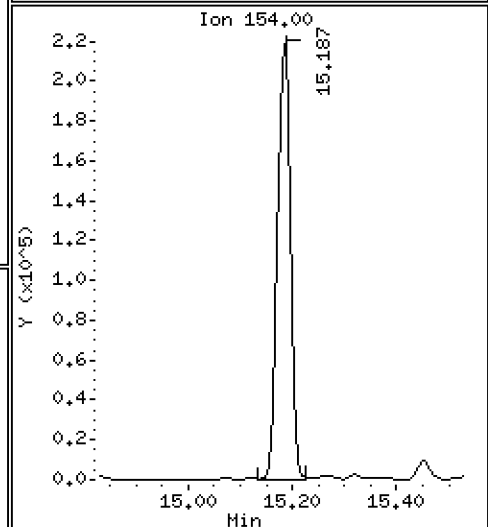
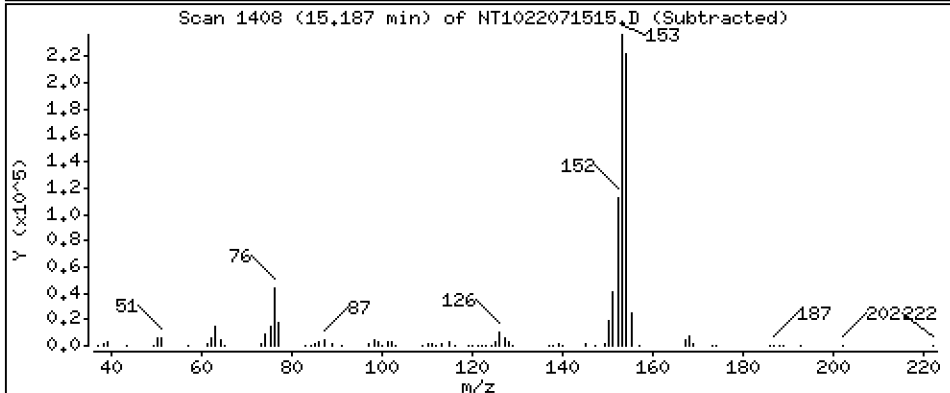
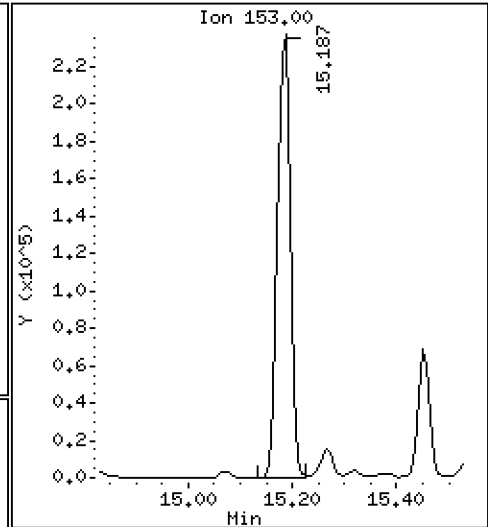
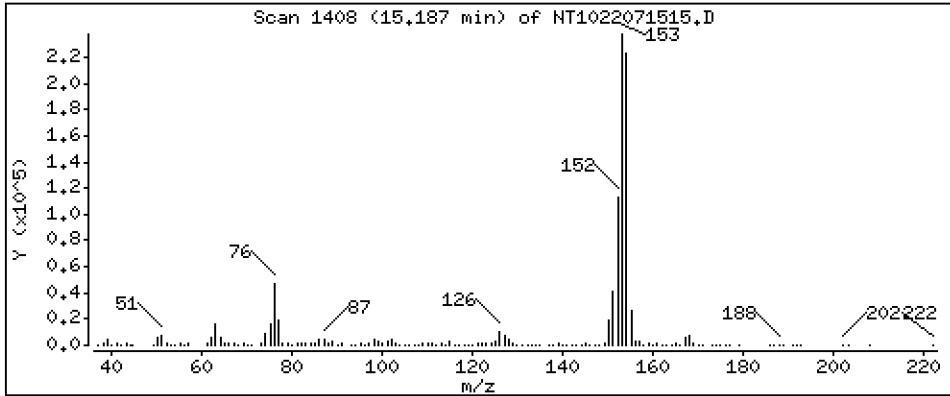
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 33,09 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

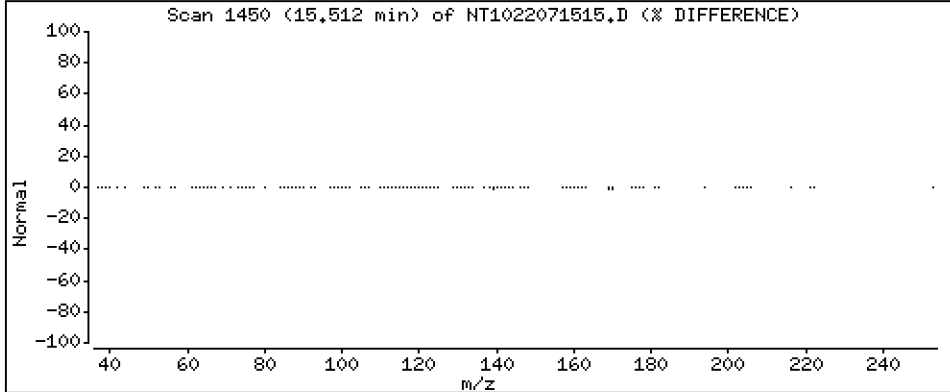
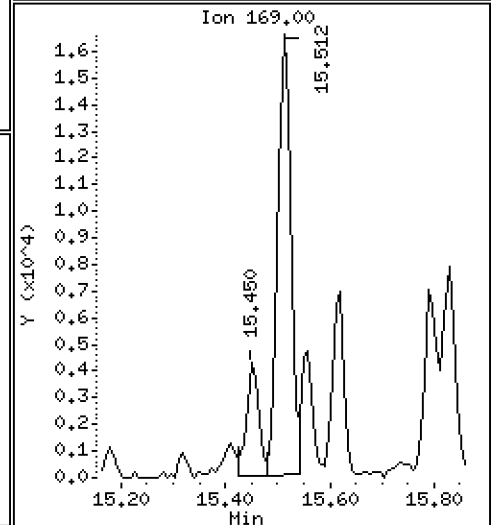
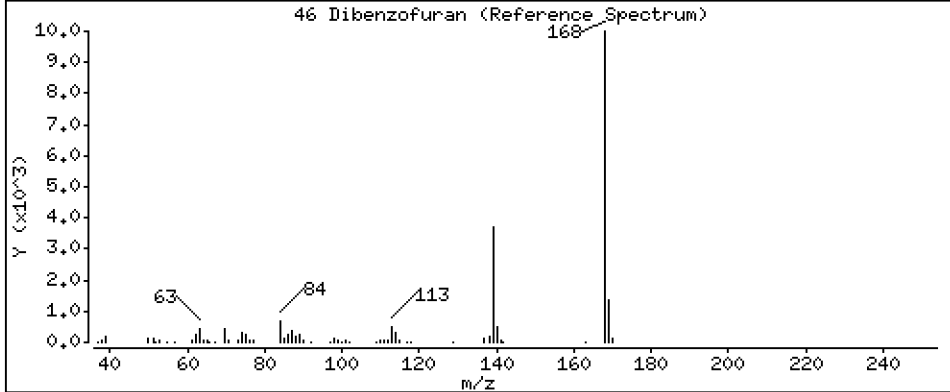
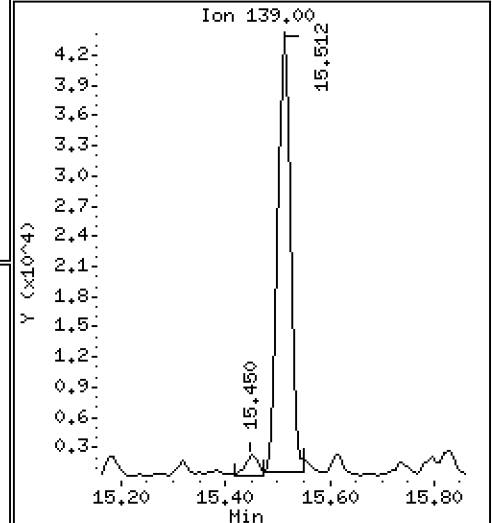
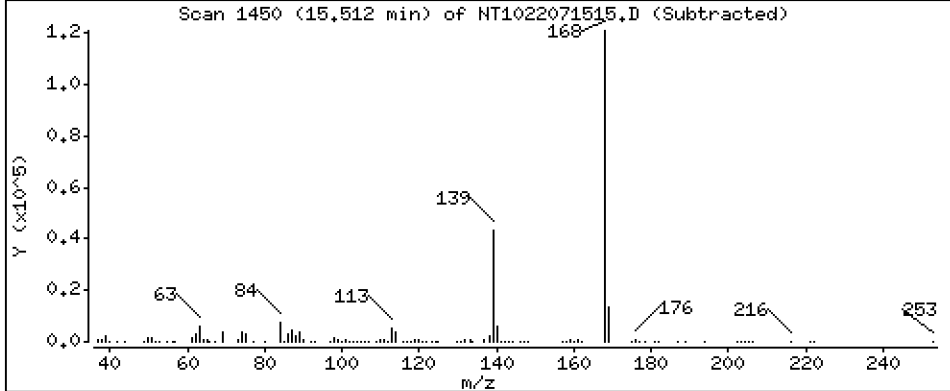
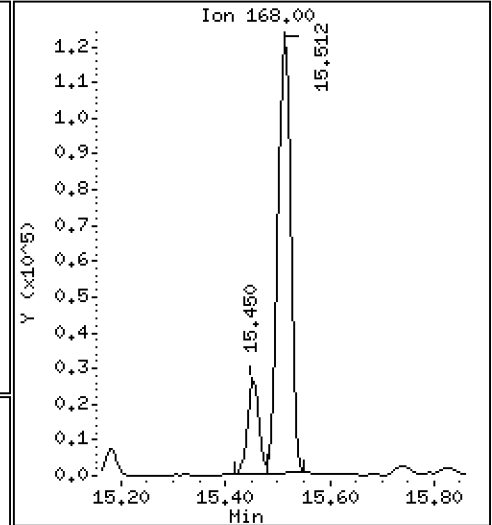
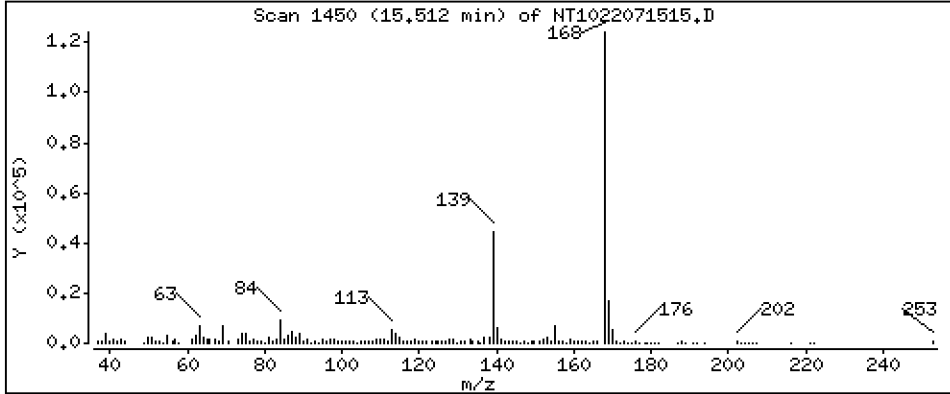
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 10,58 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

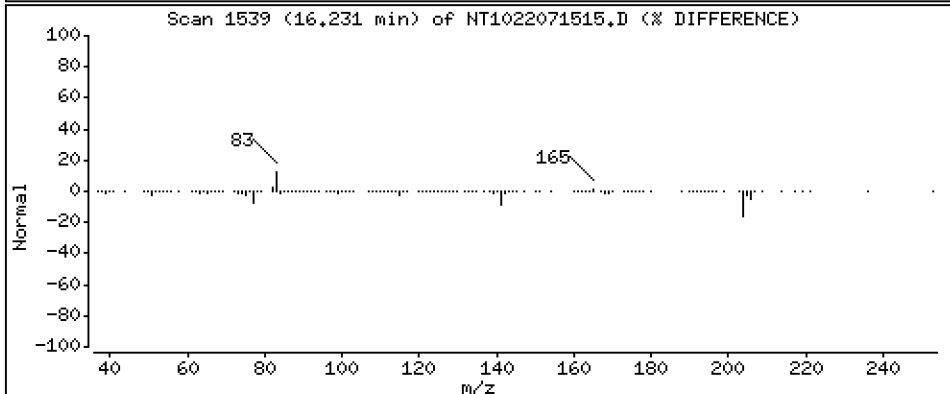
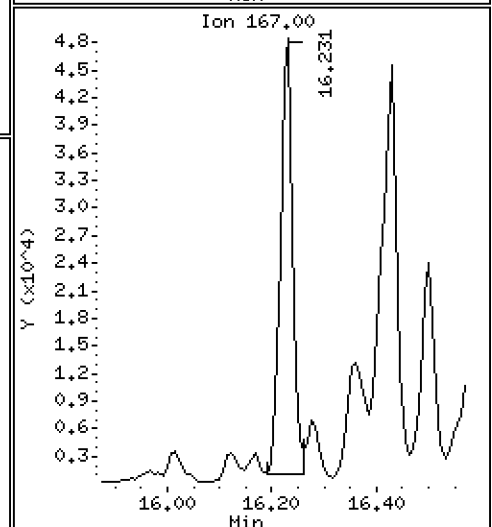
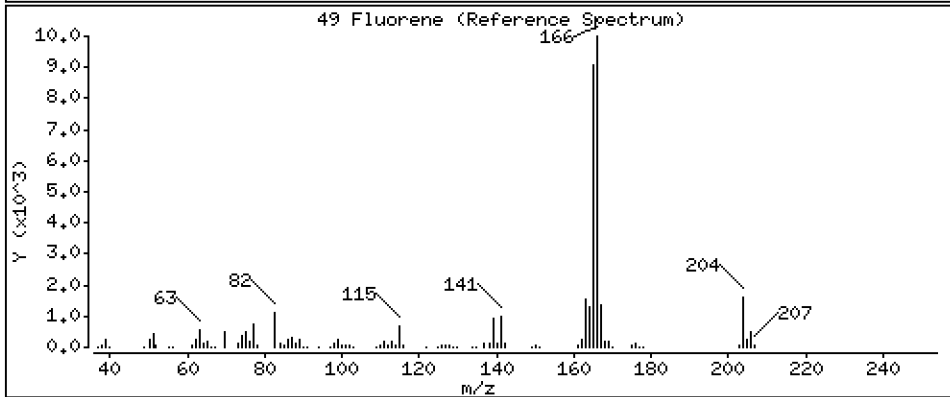
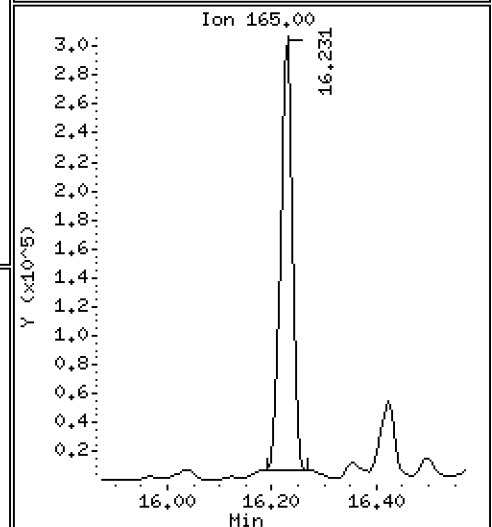
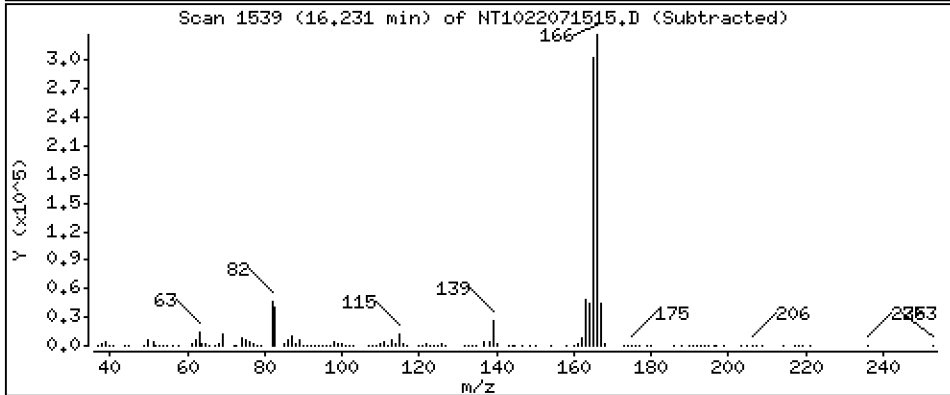
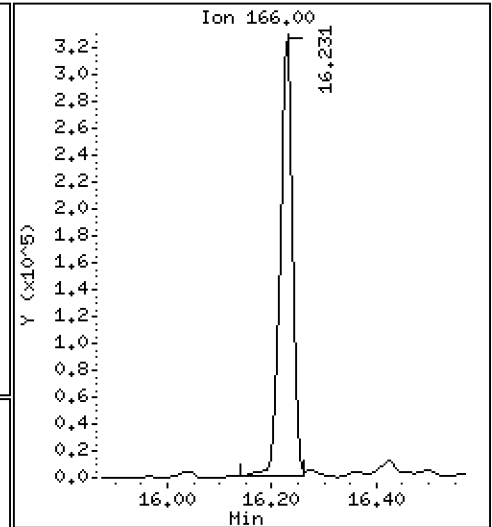
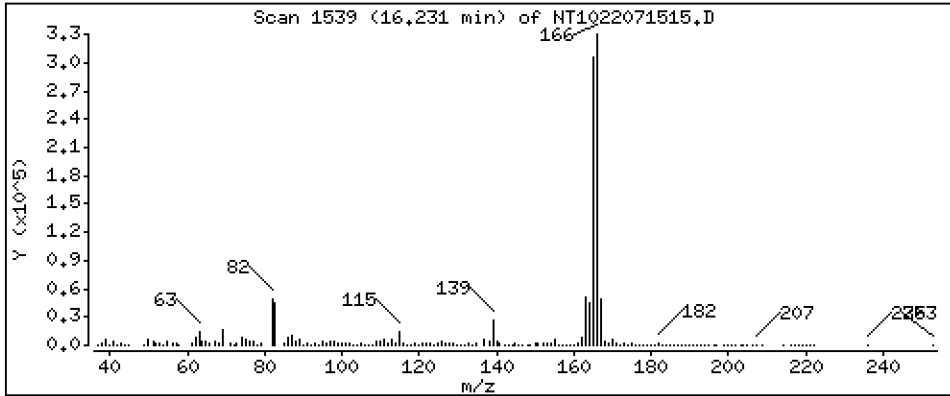
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 27,58 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

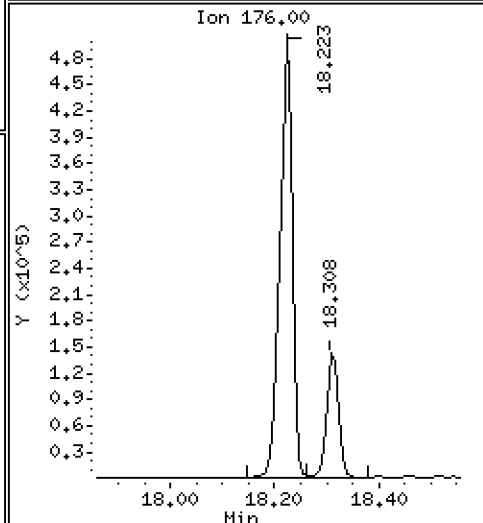
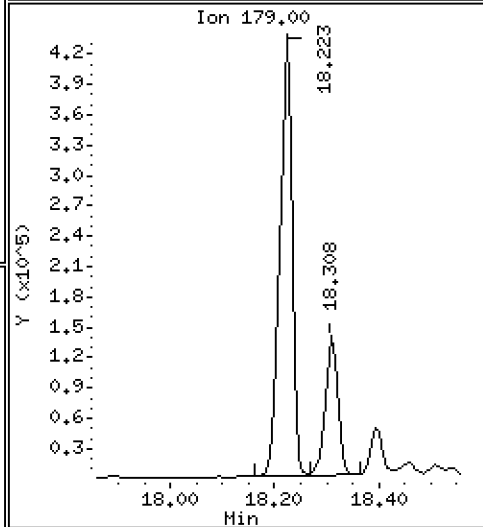
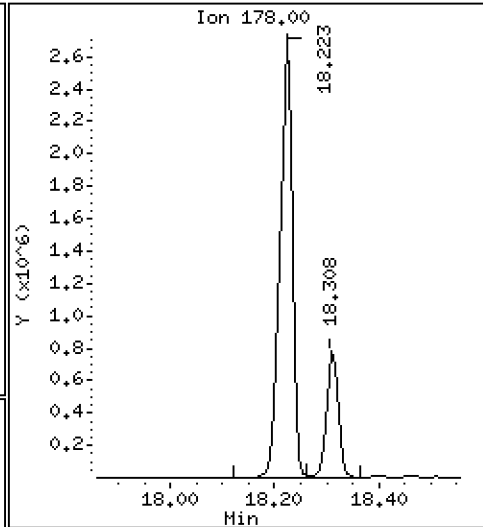
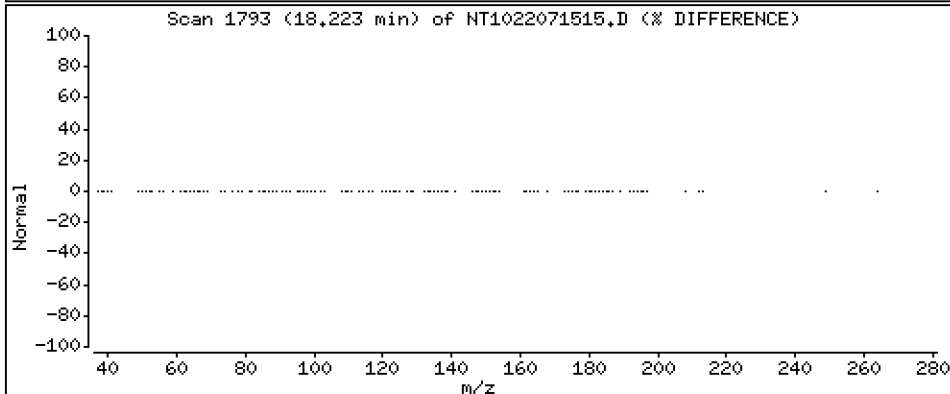
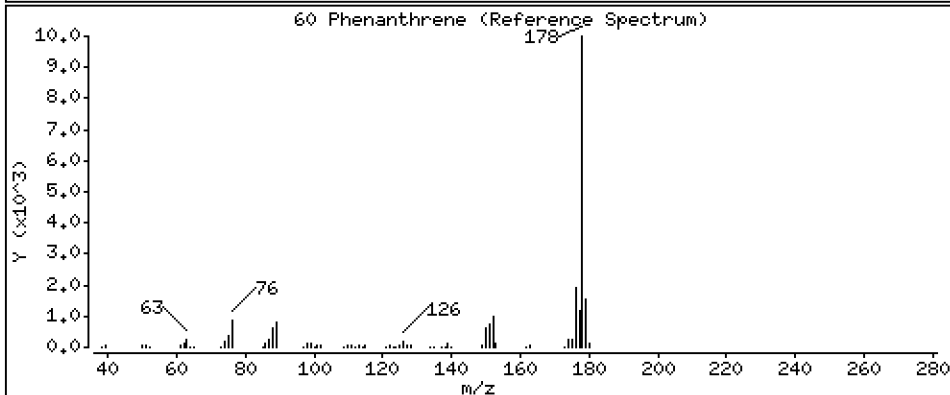
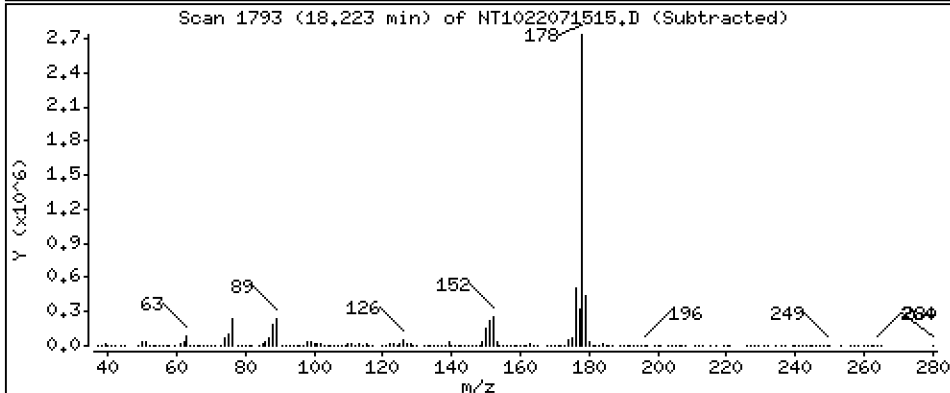
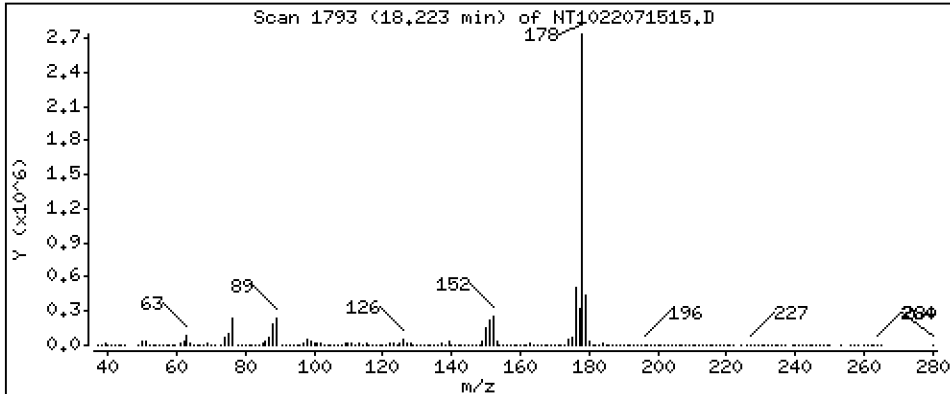
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 324,8 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 2200019-08RE1,10

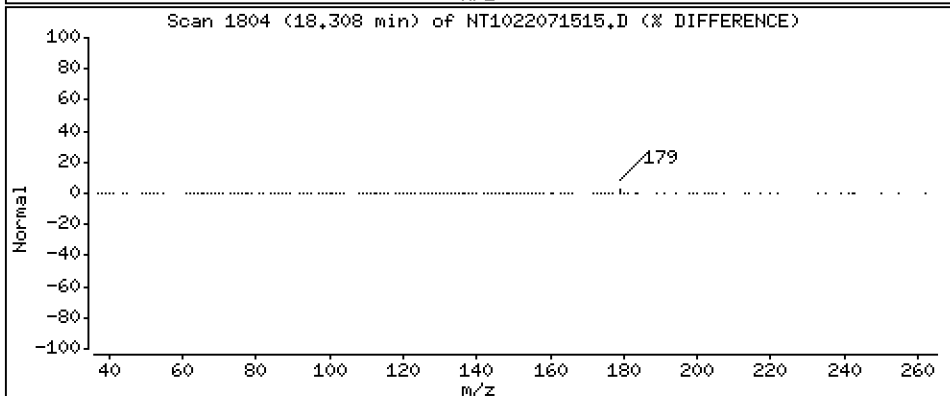
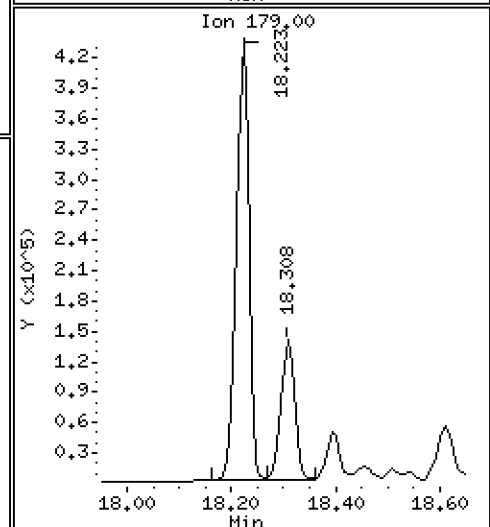
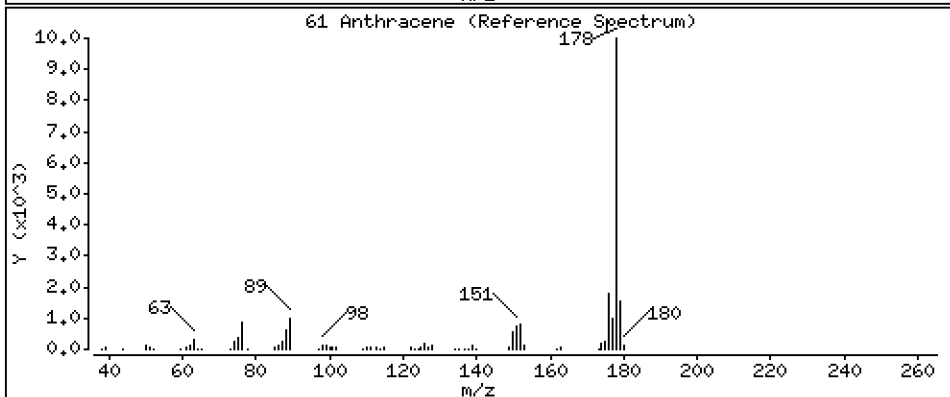
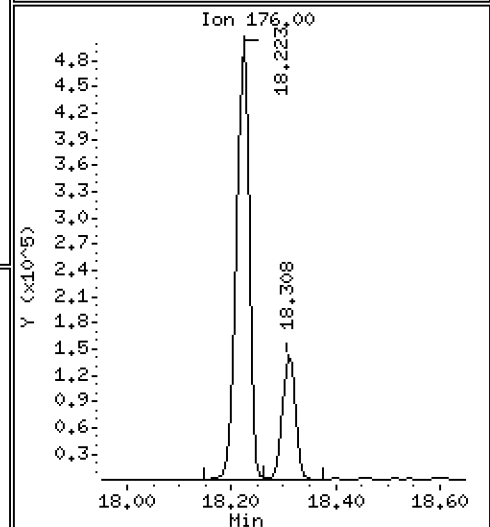
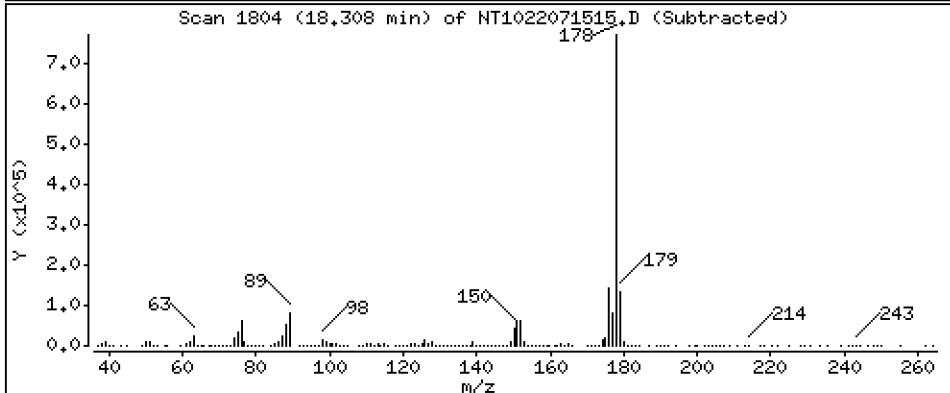
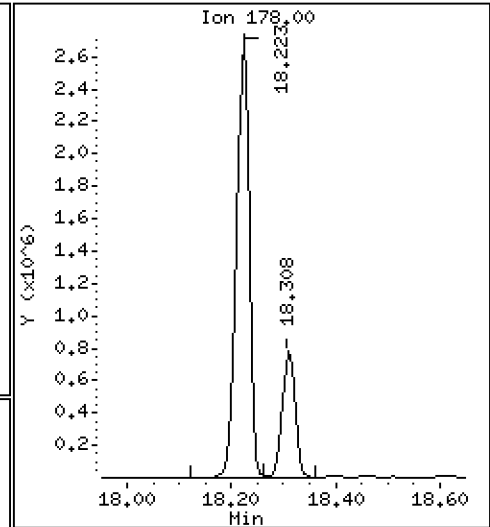
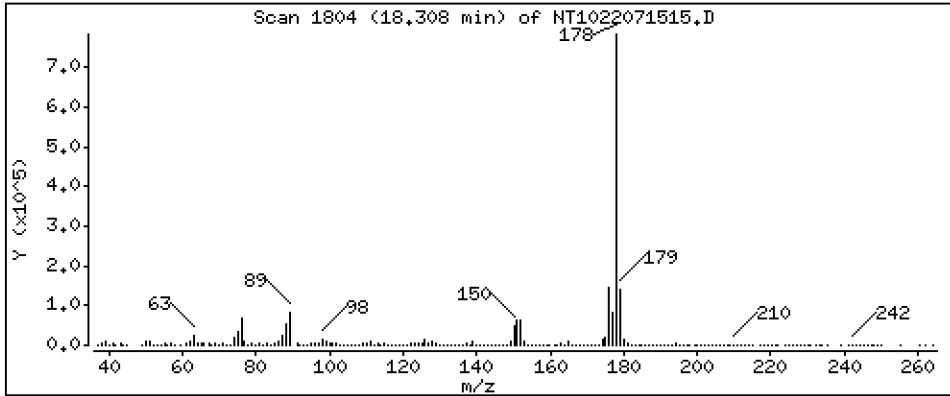
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 88,81 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

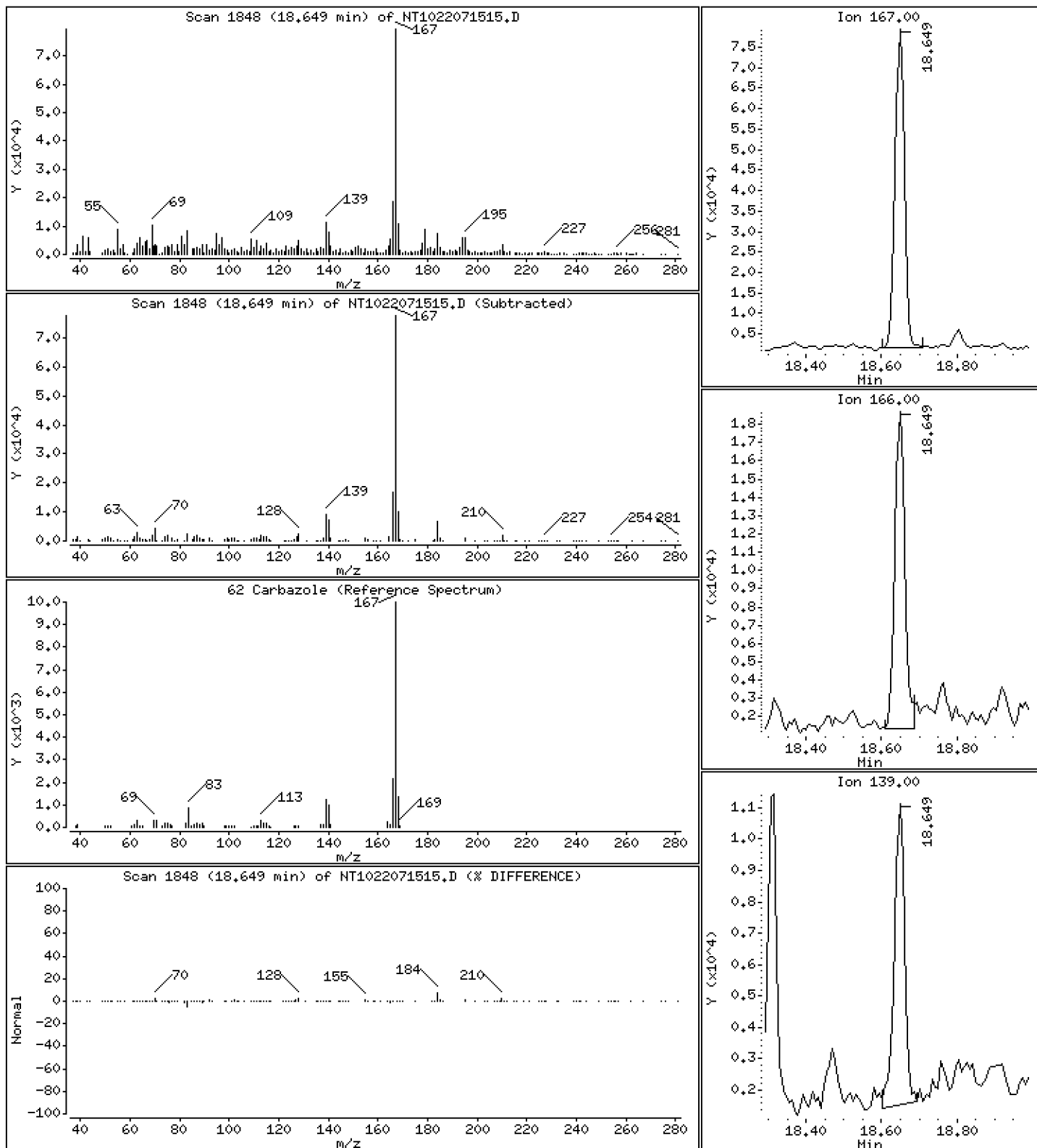
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 9,578 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

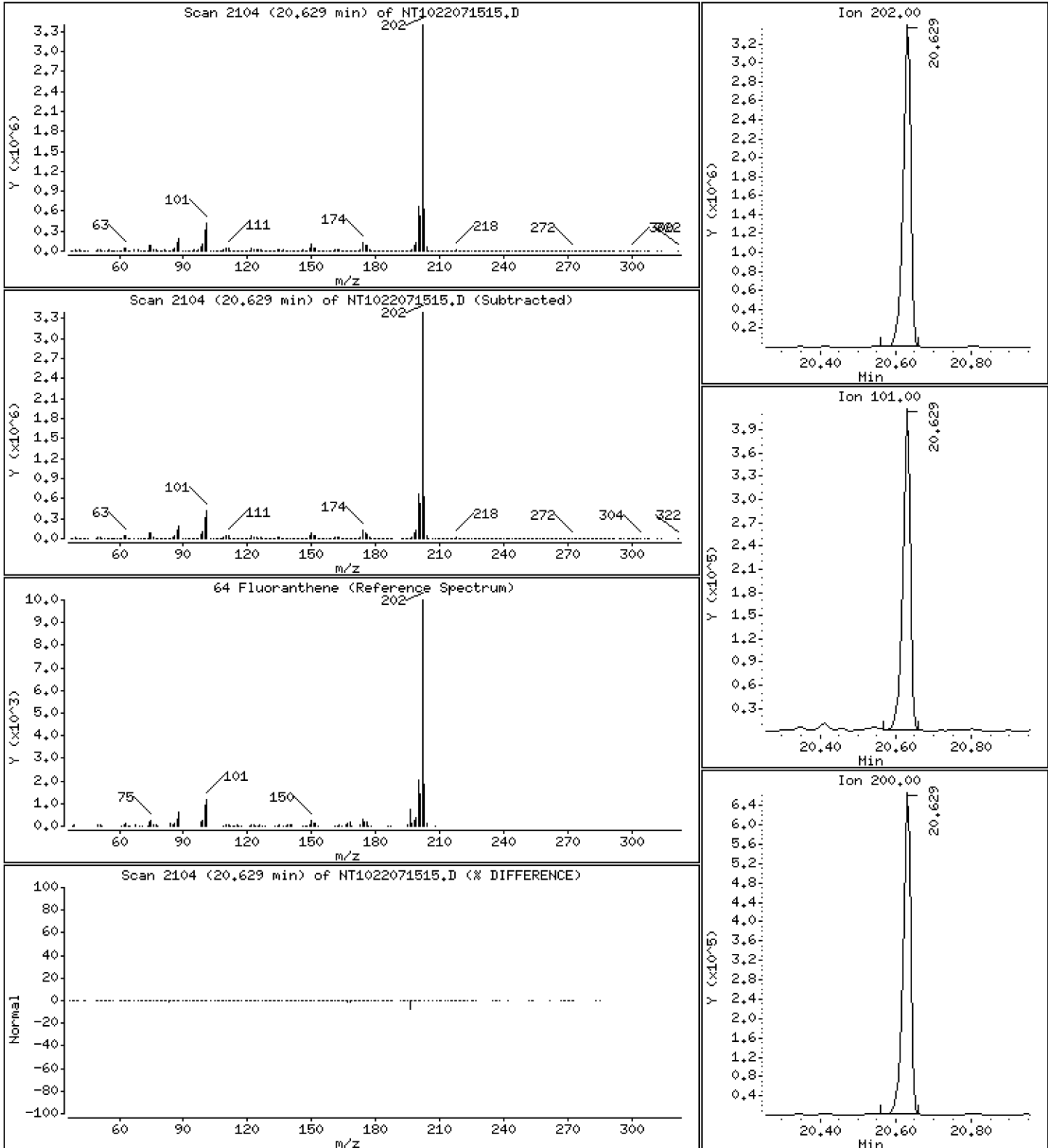
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 338,1 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

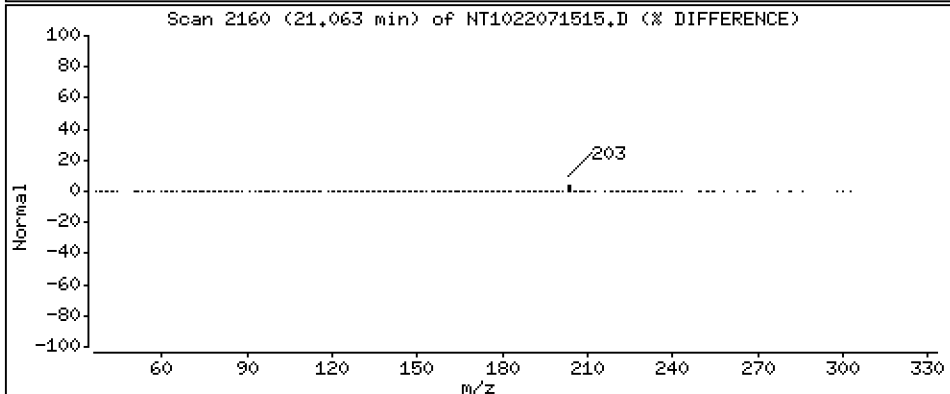
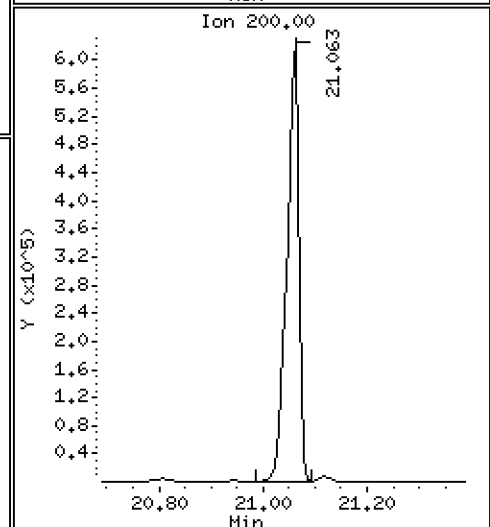
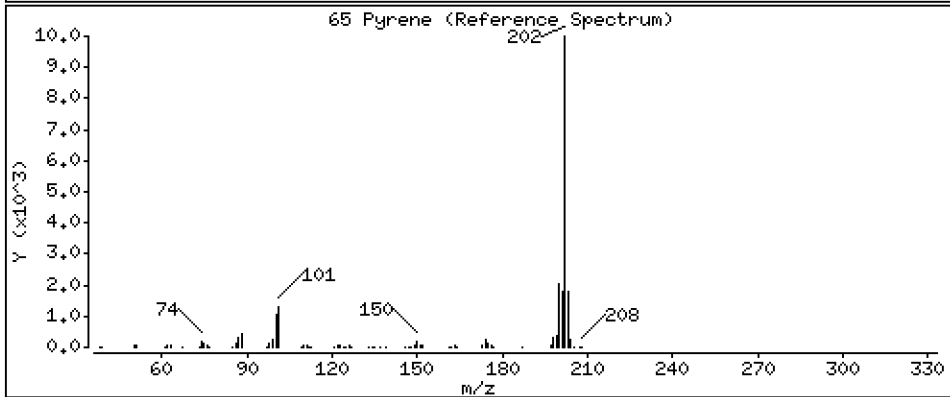
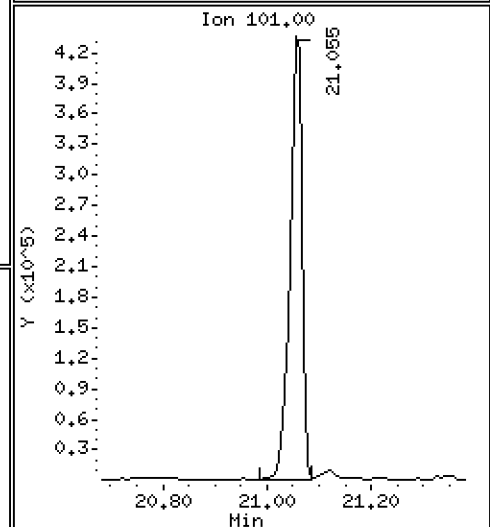
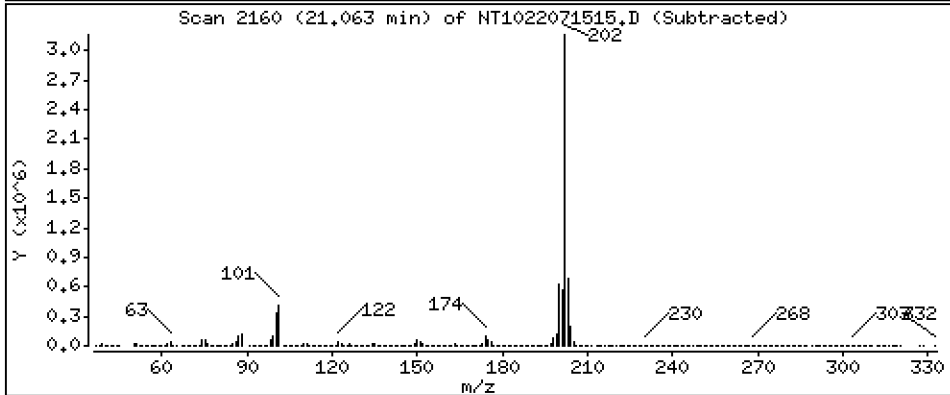
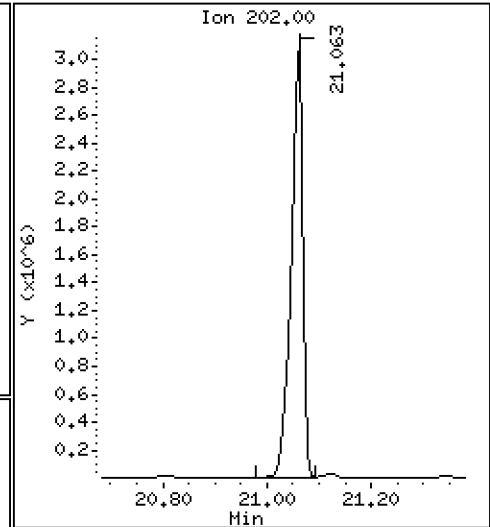
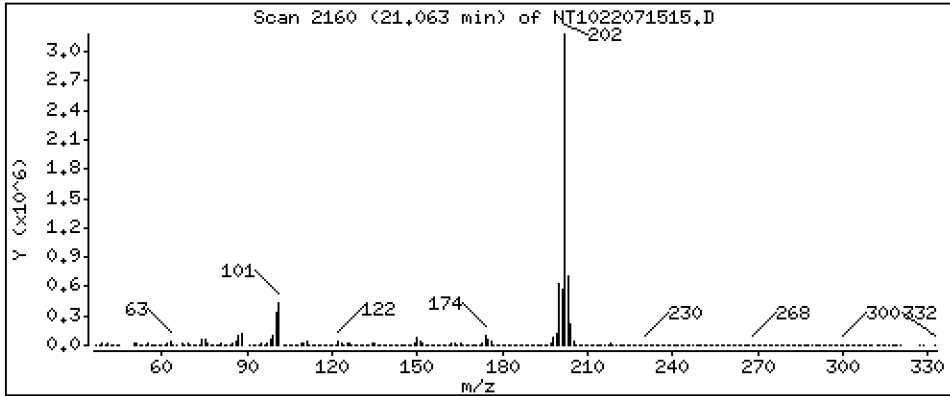
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 291,7 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08RE1,10

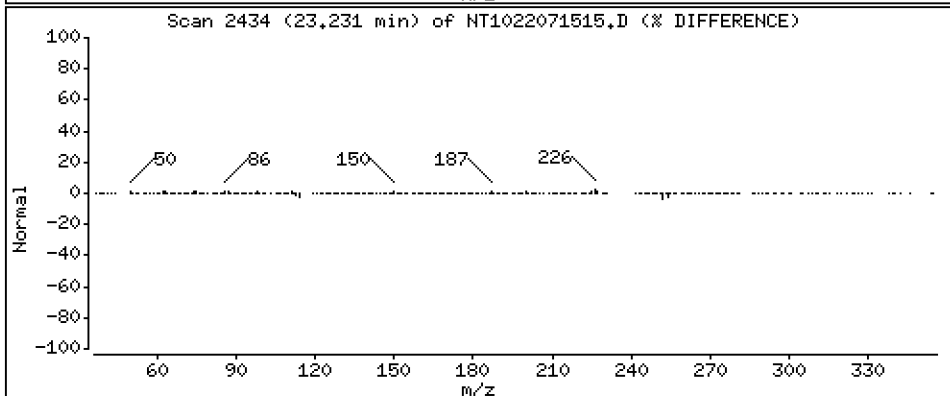
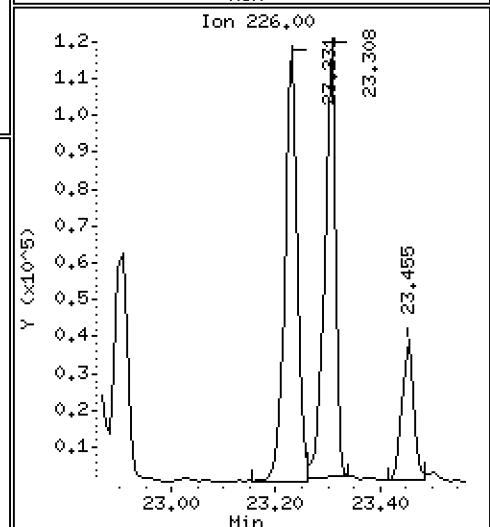
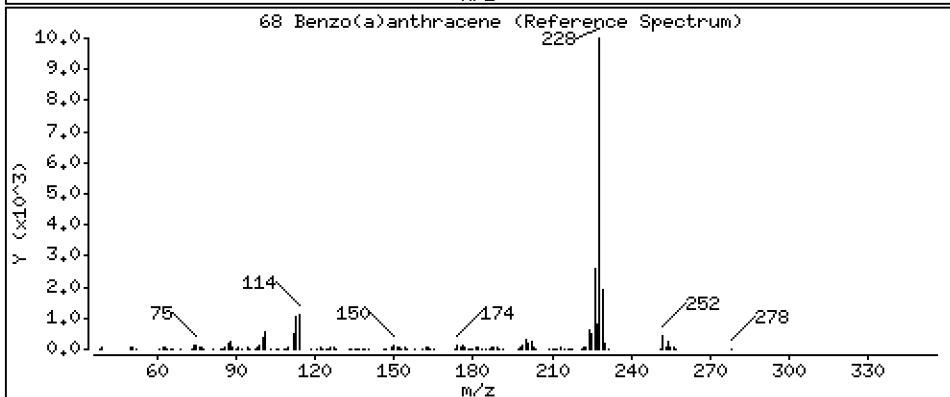
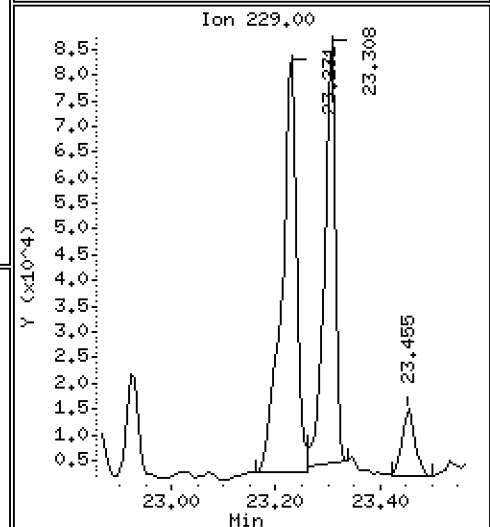
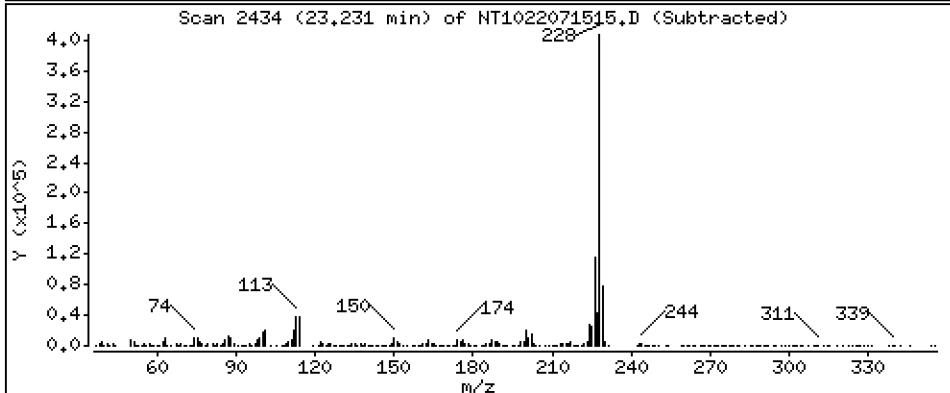
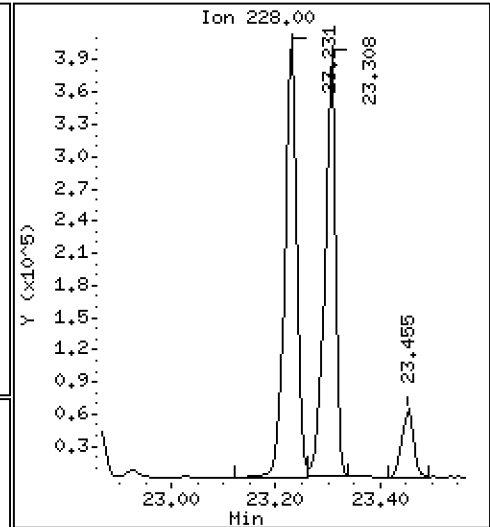
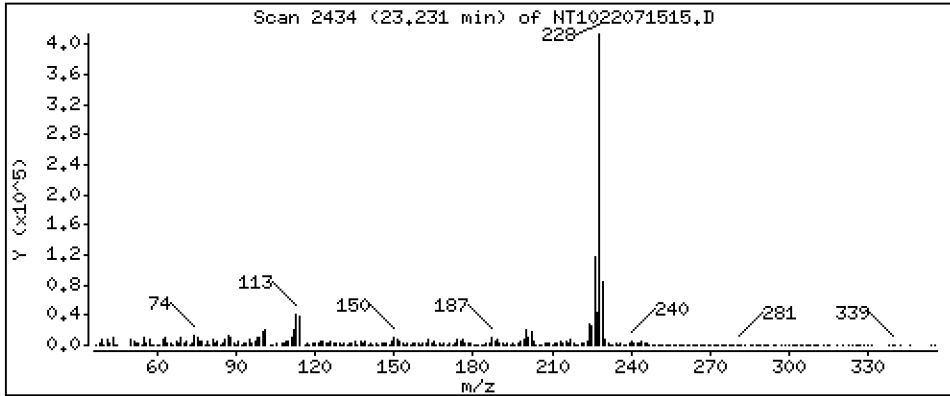
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 145,2 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

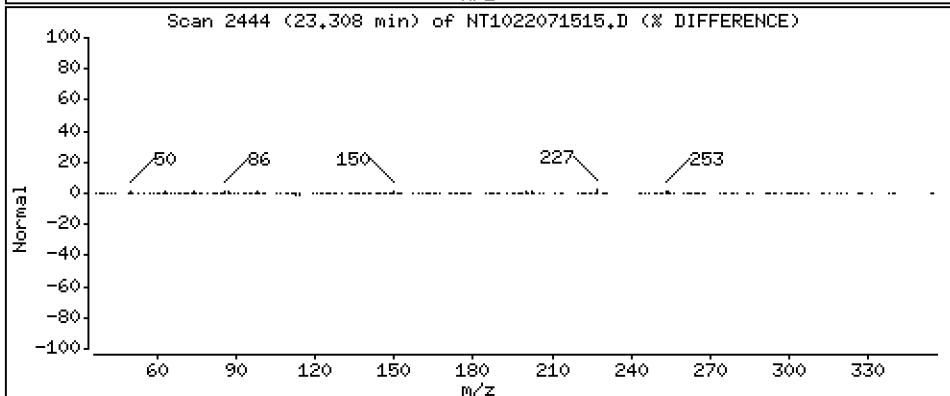
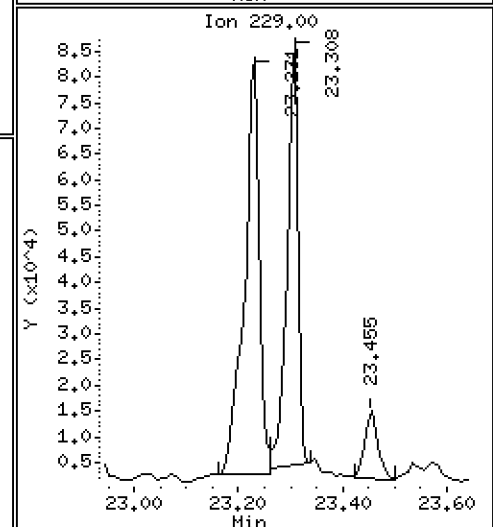
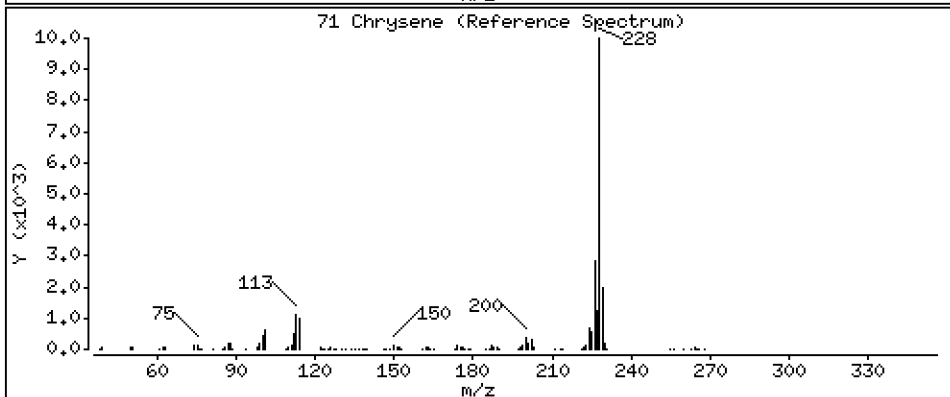
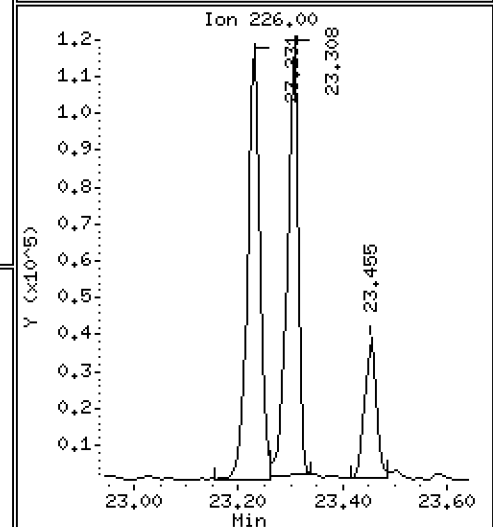
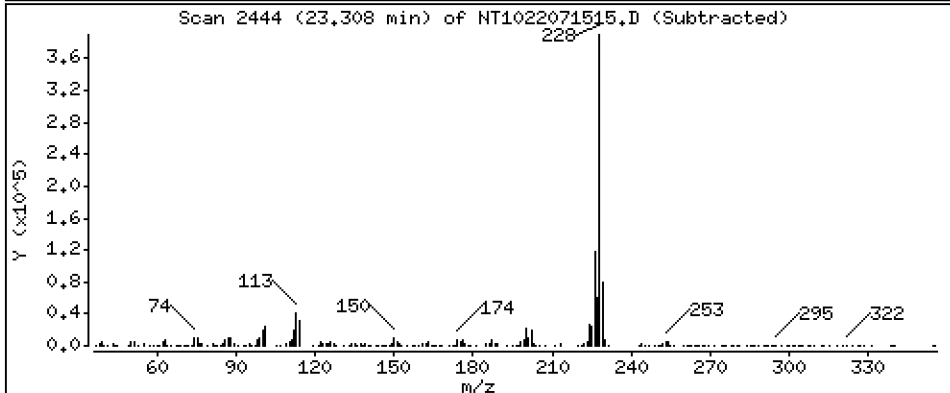
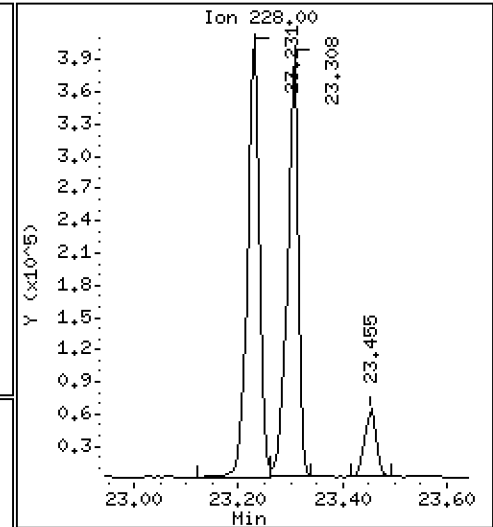
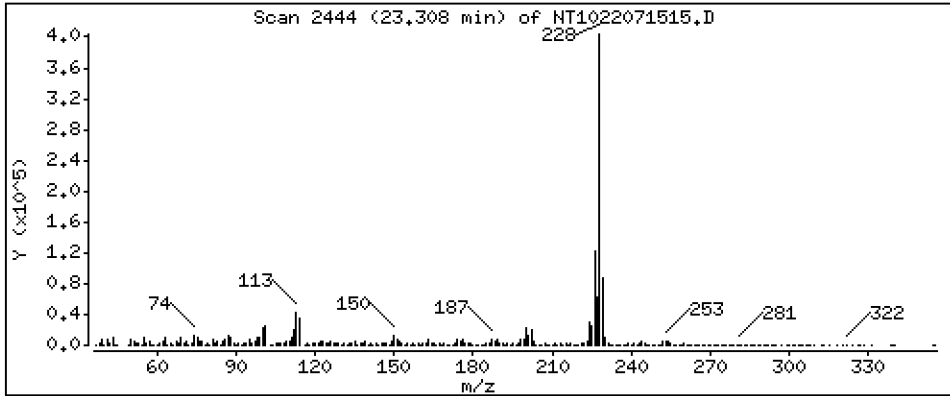
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 152,0 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

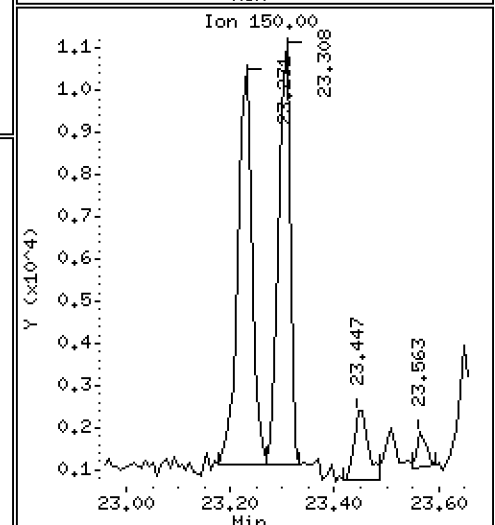
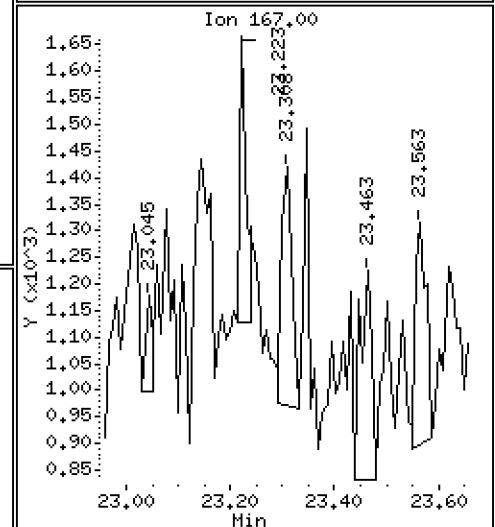
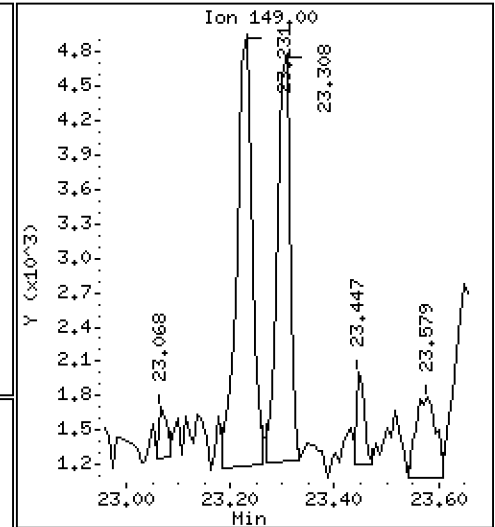
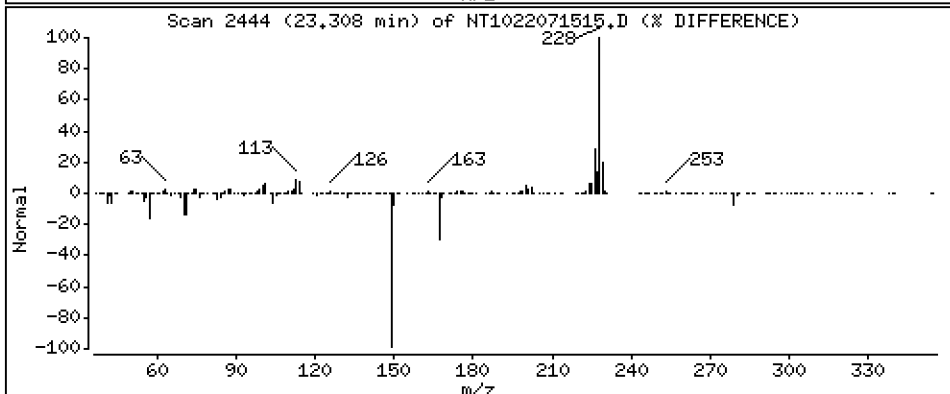
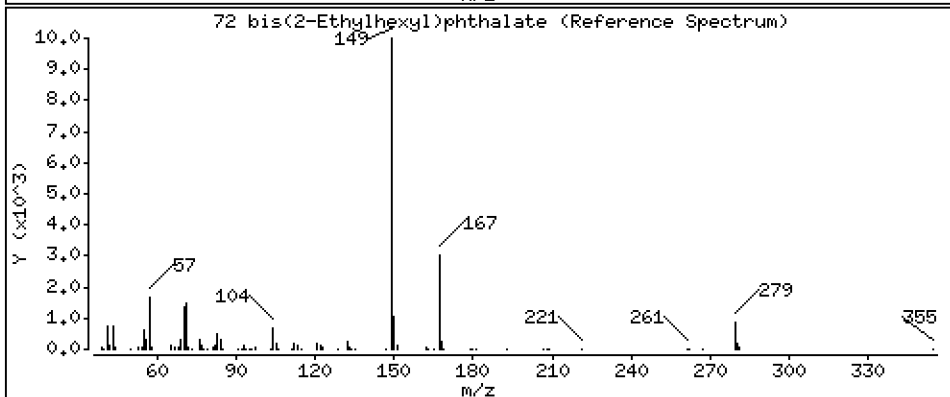
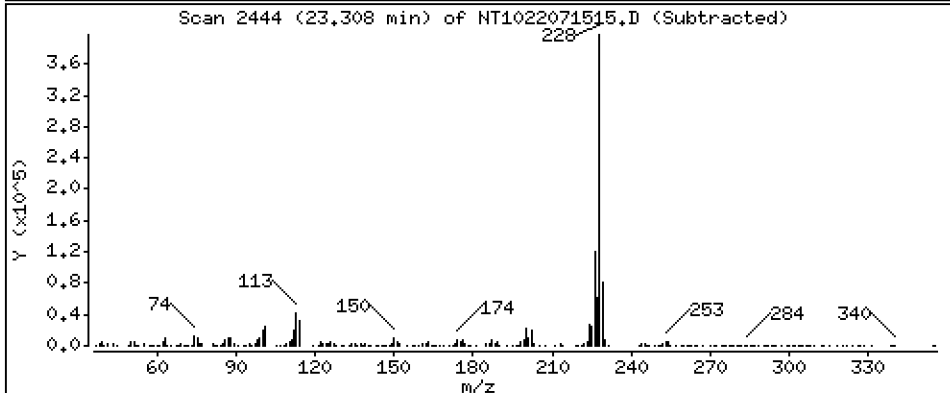
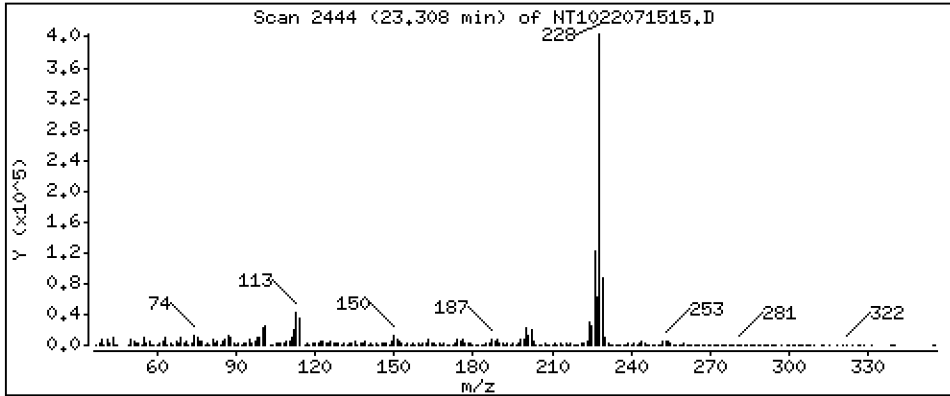
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 2,666 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08RE1,10

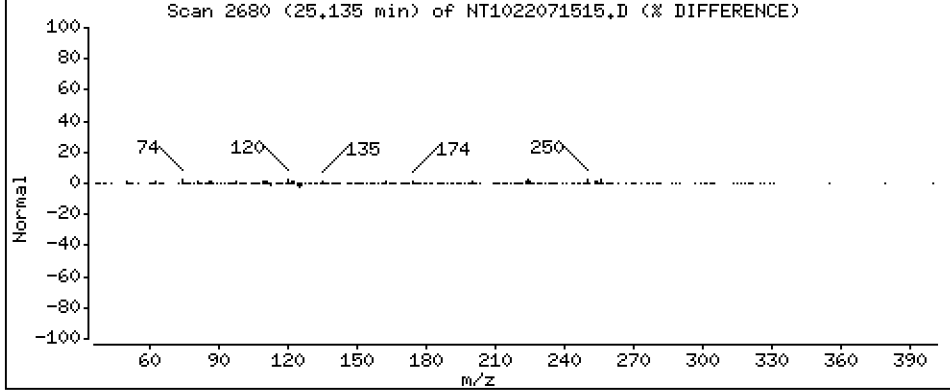
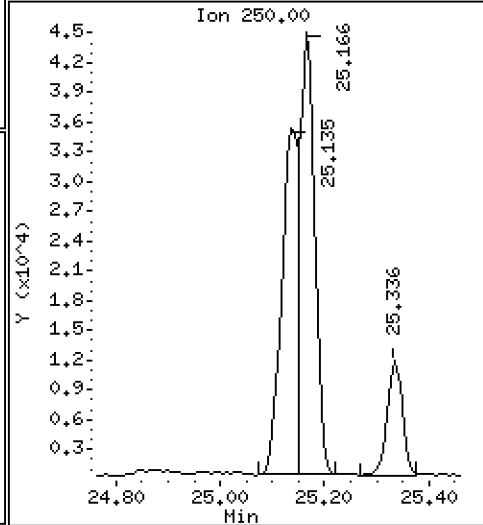
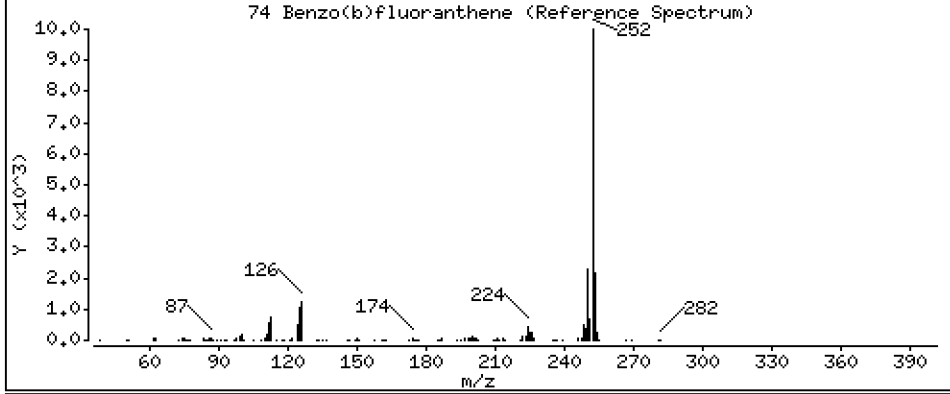
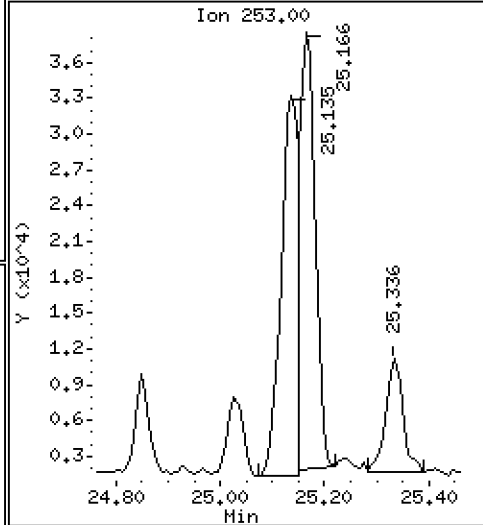
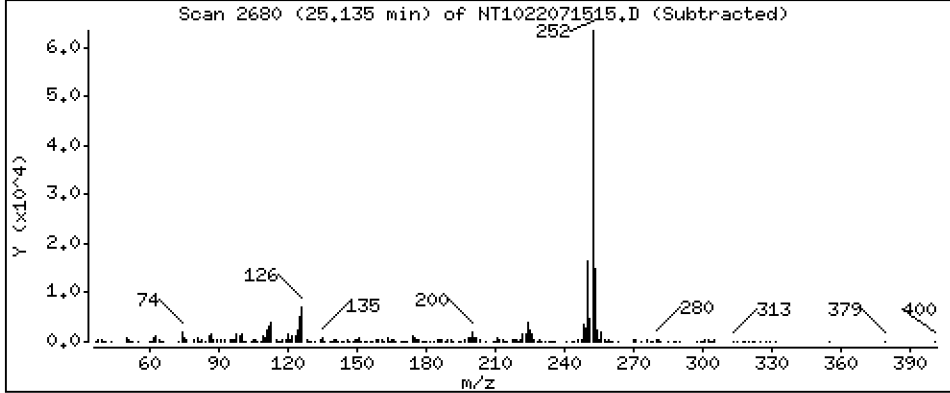
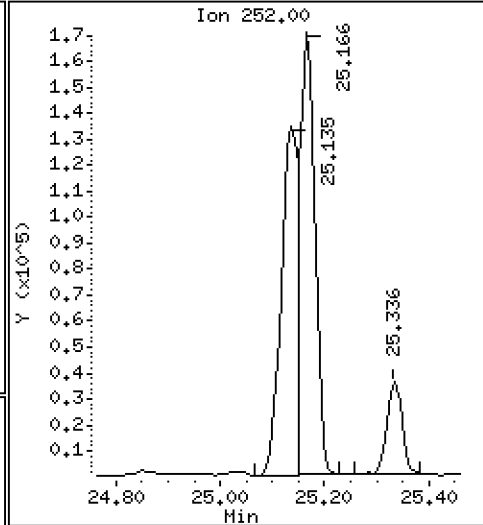
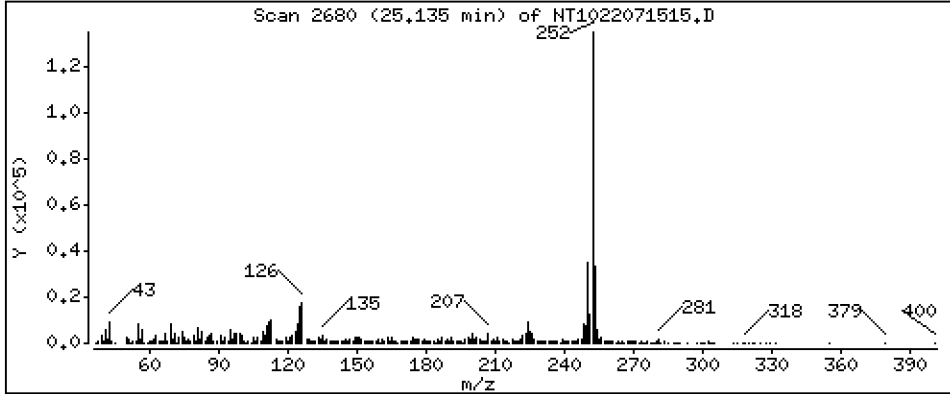
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 83,76 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

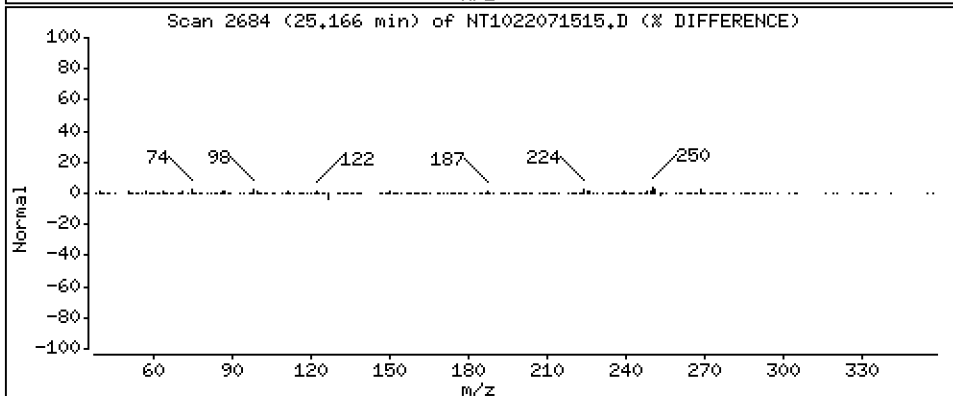
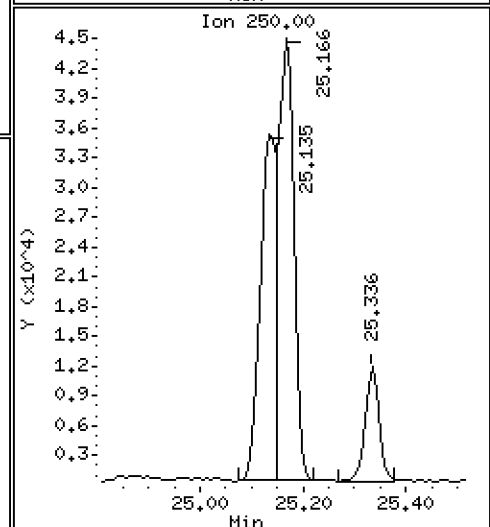
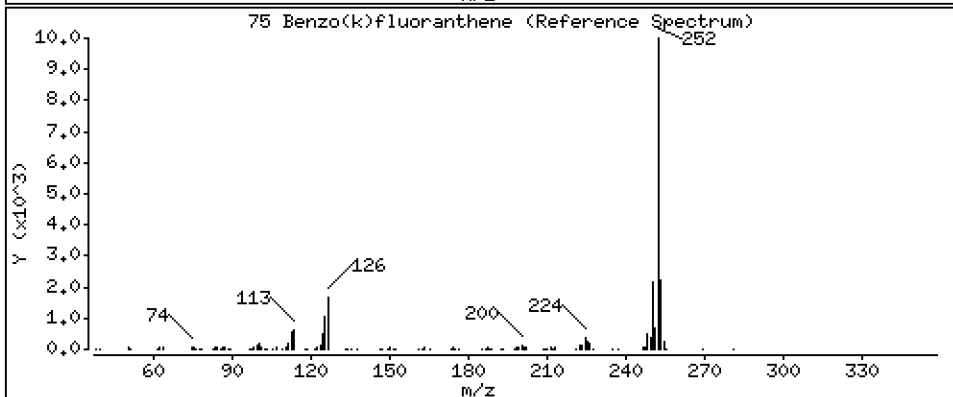
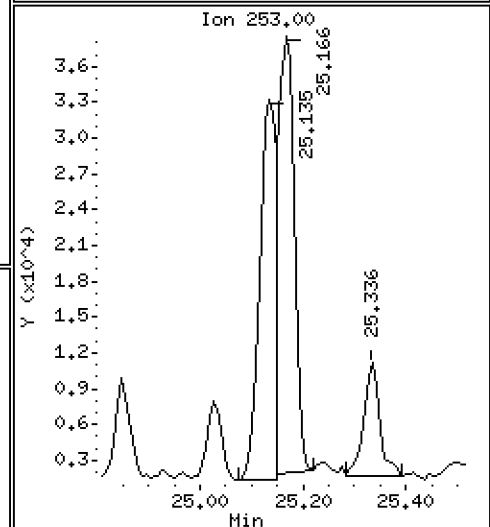
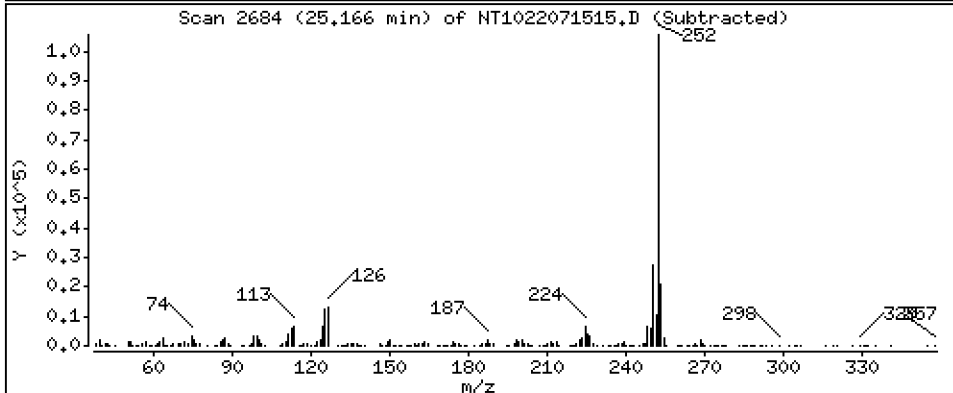
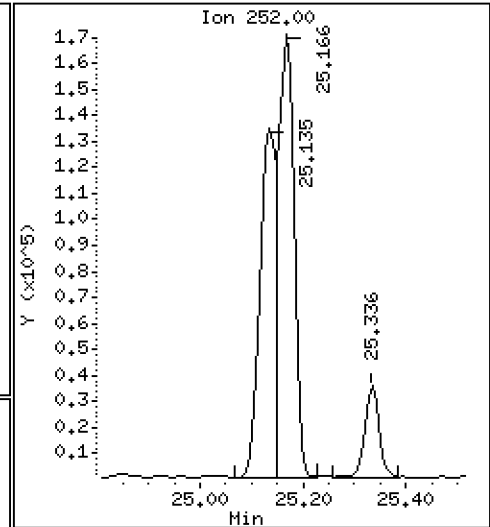
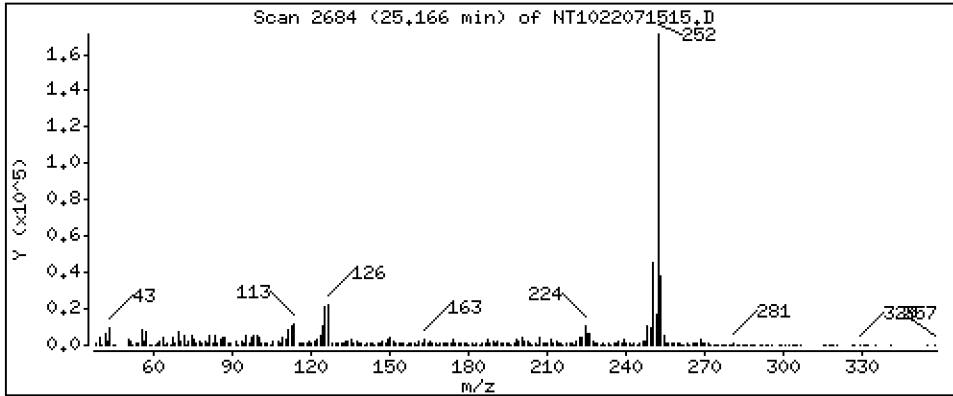
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 95,36 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

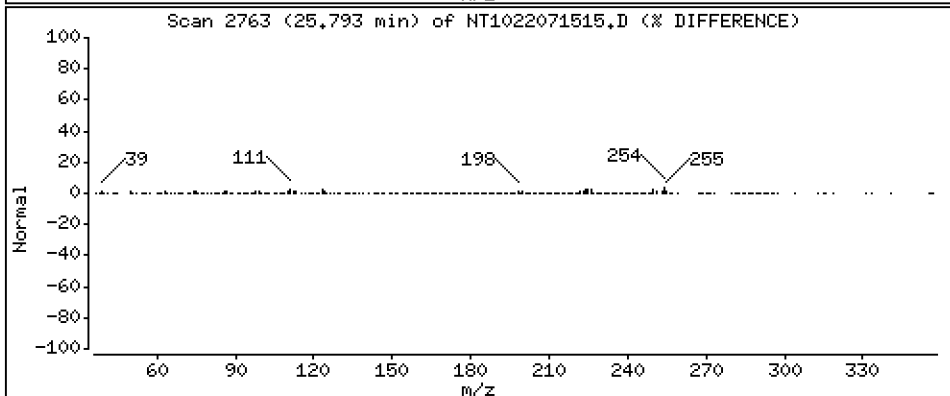
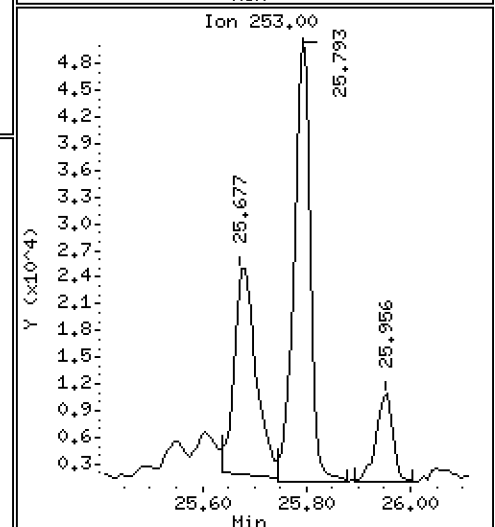
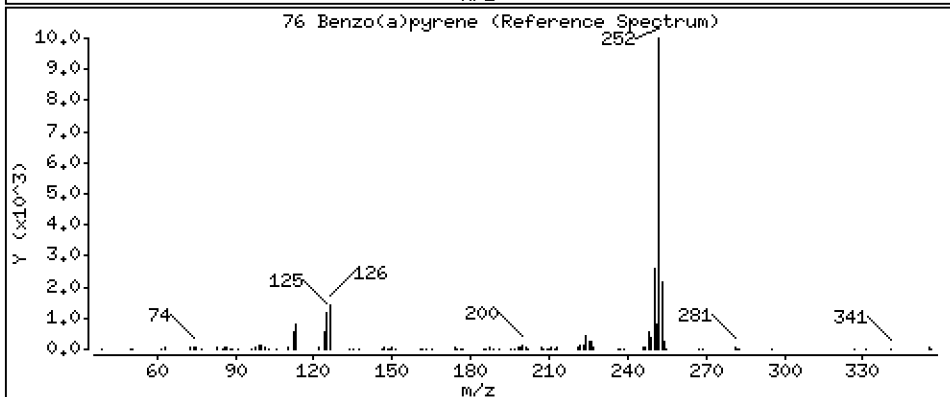
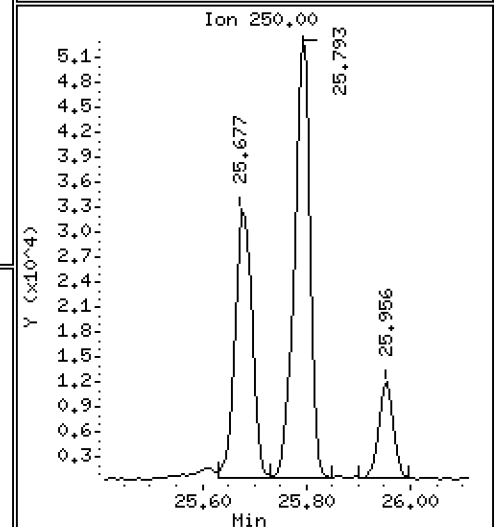
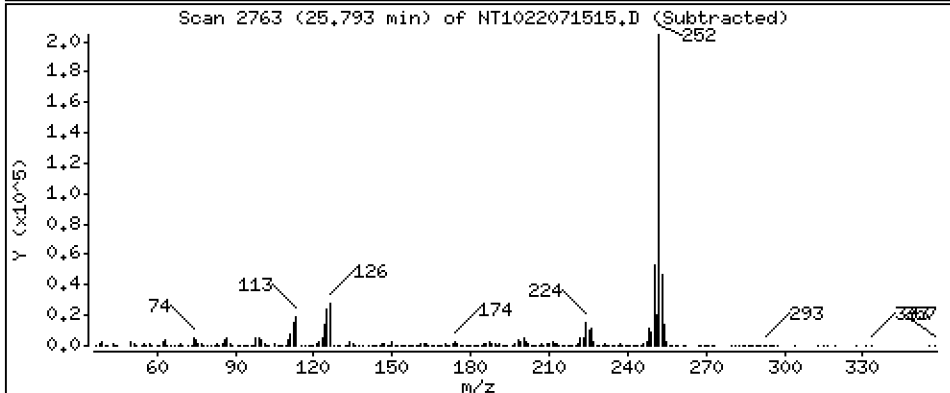
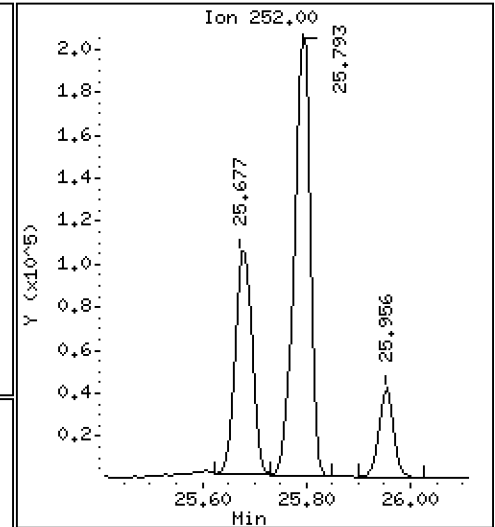
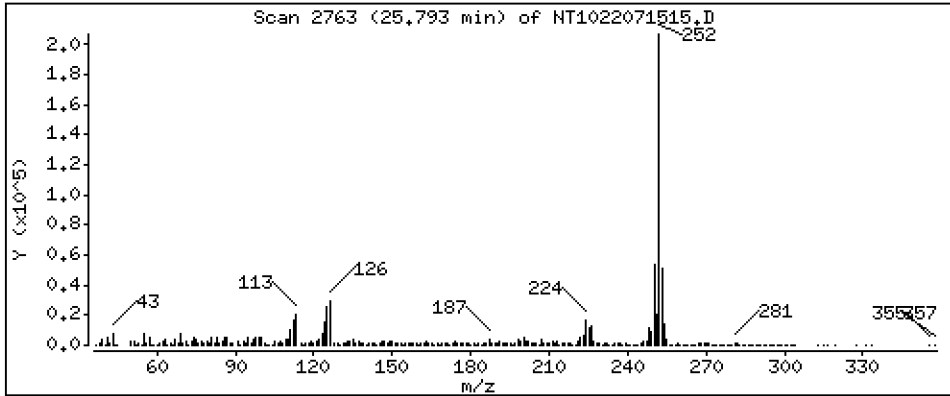
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 144,6 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

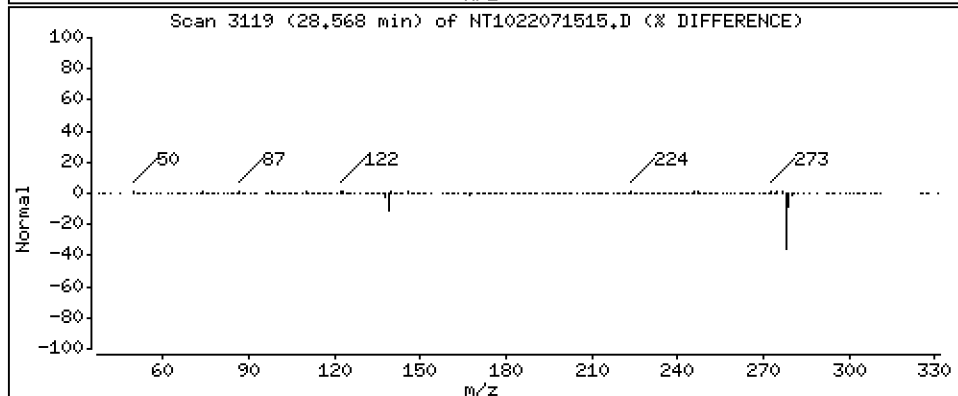
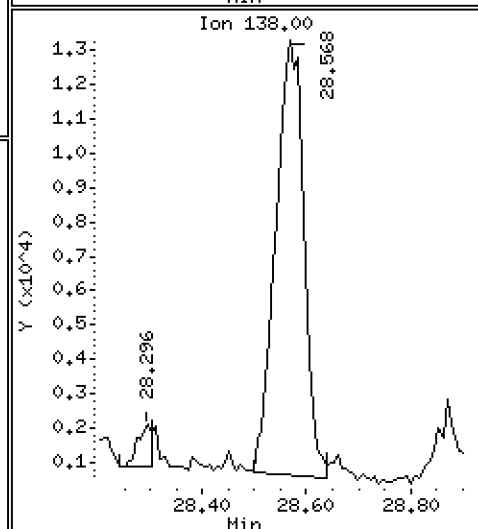
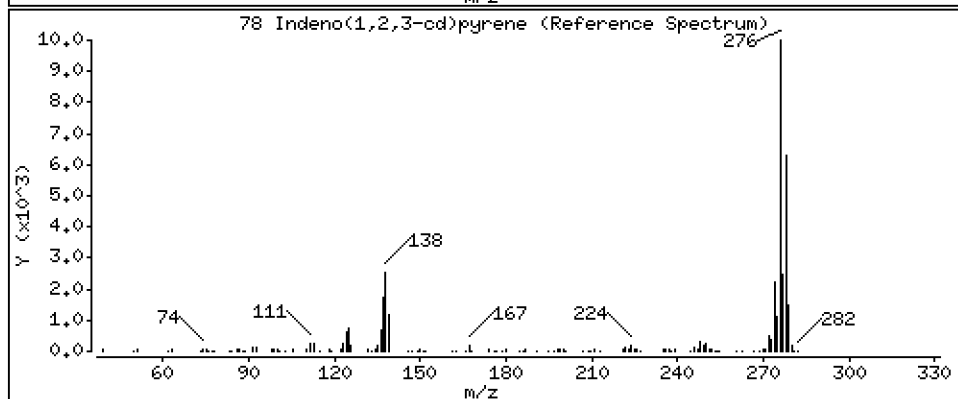
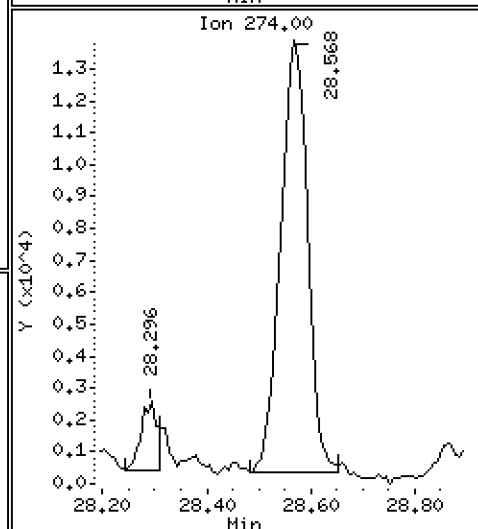
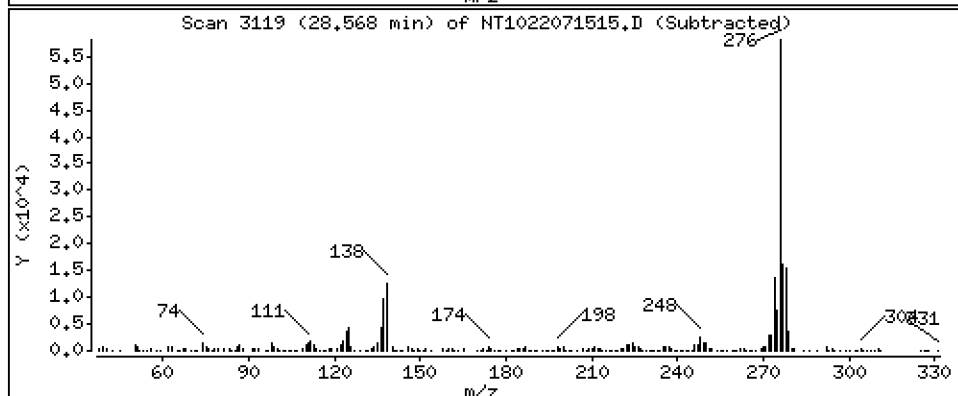
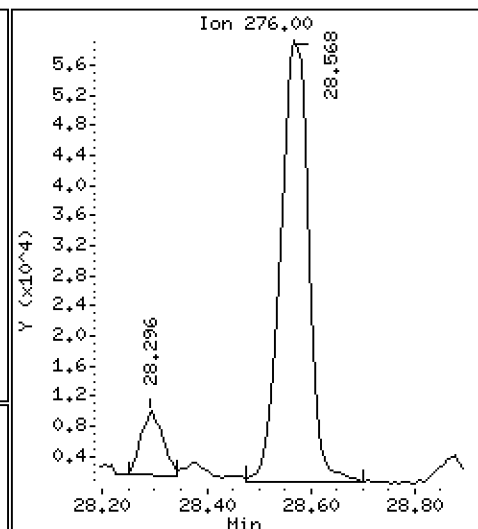
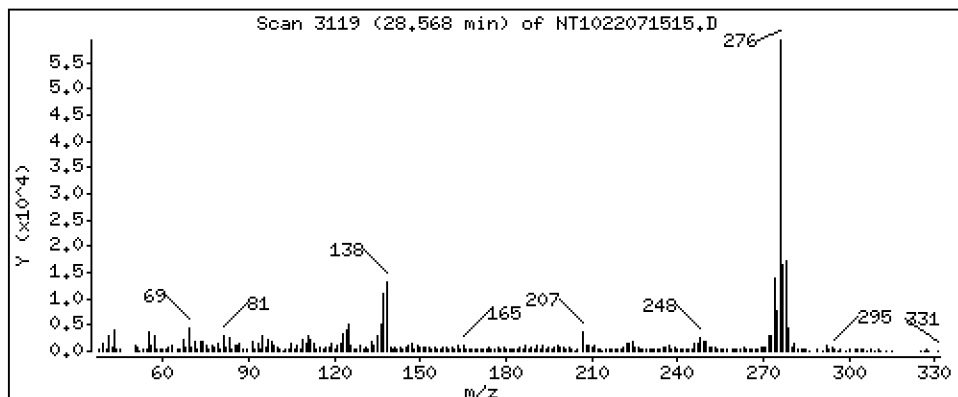
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 67,37 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

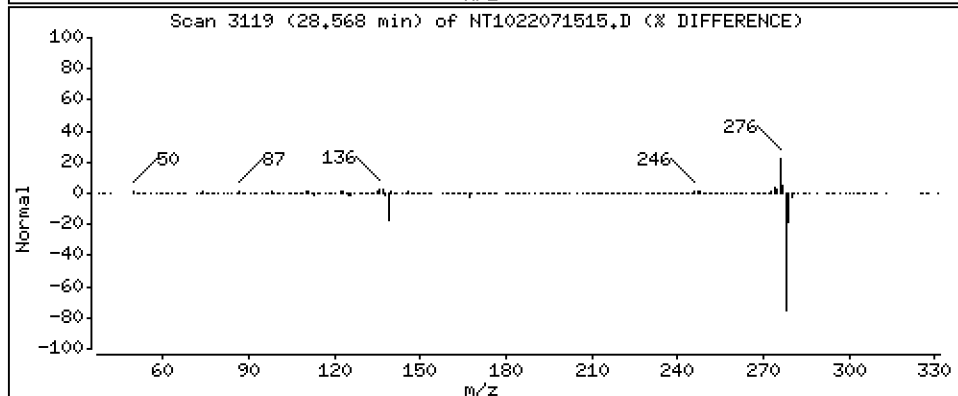
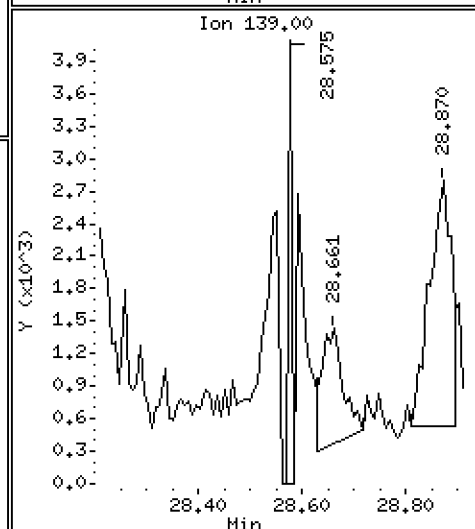
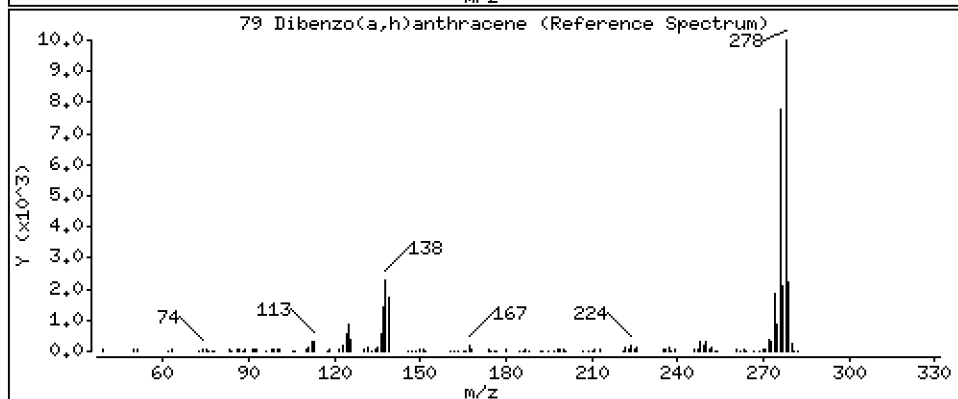
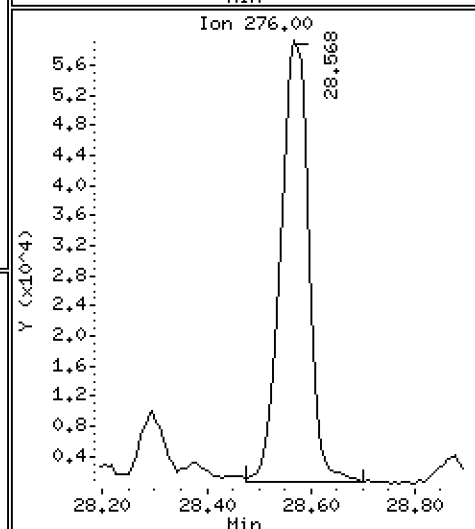
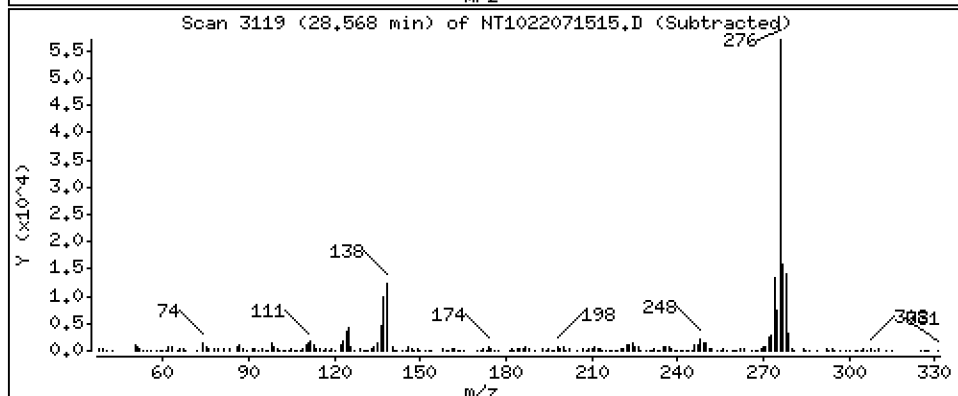
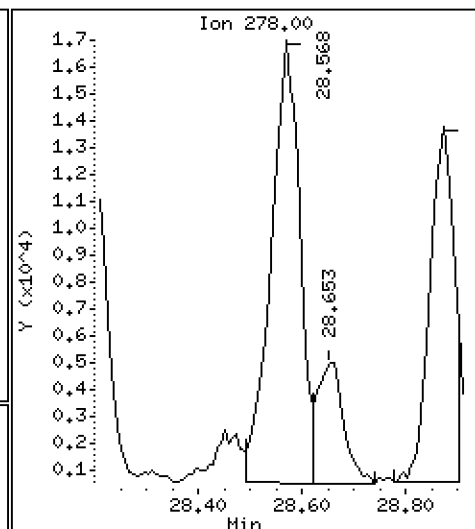
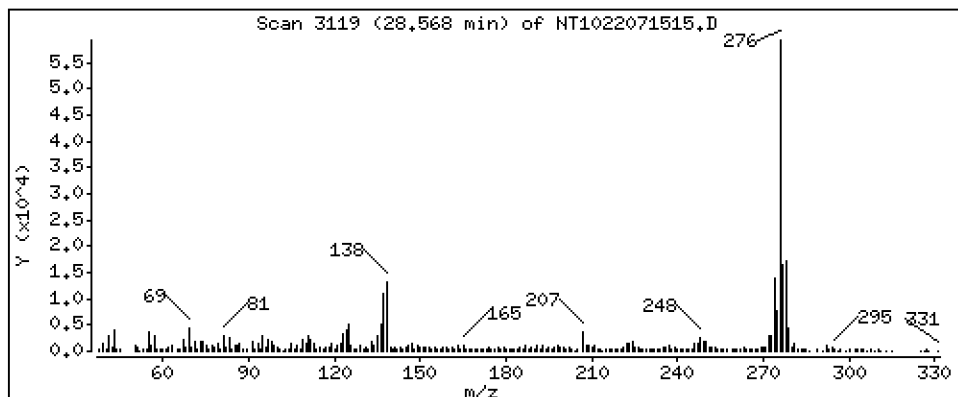
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 25,06 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

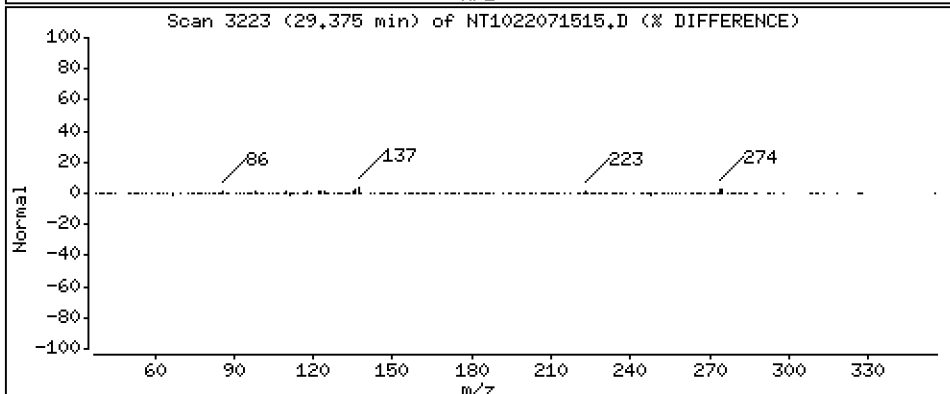
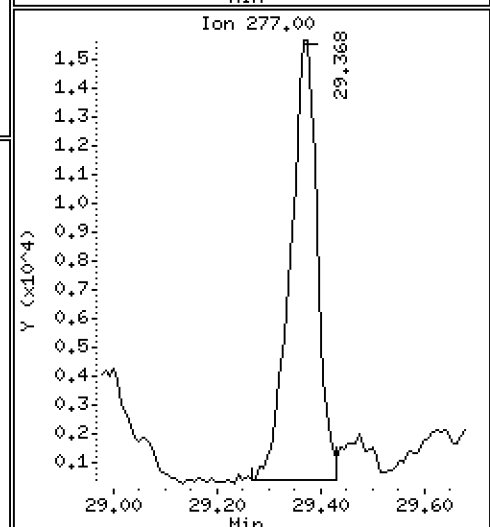
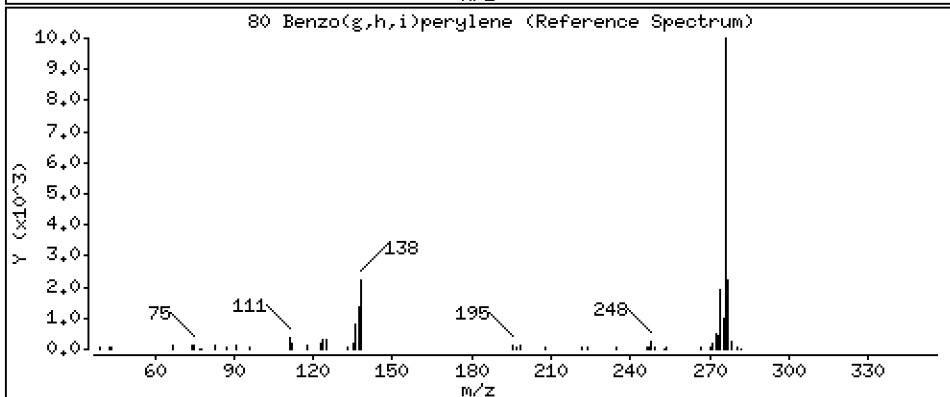
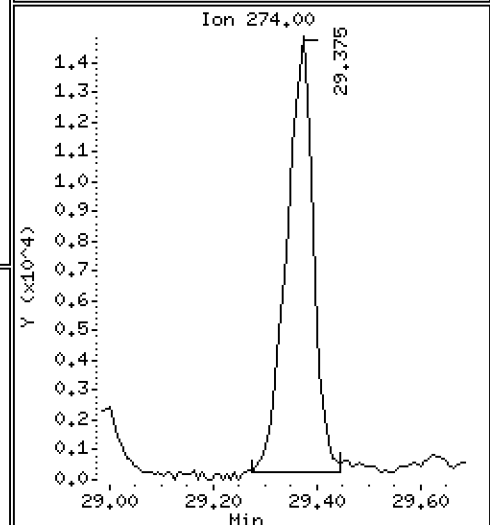
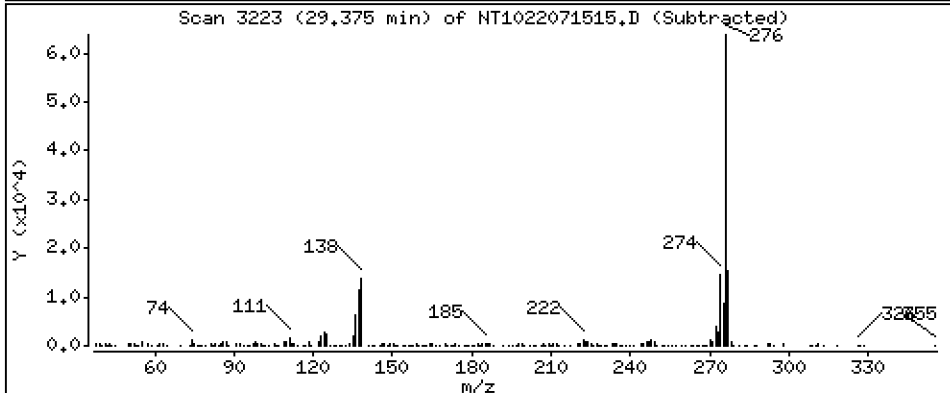
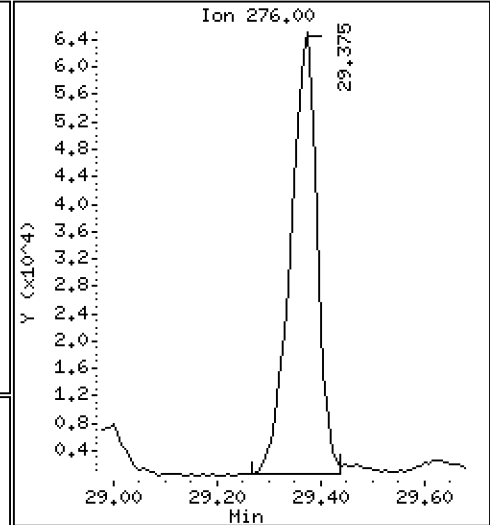
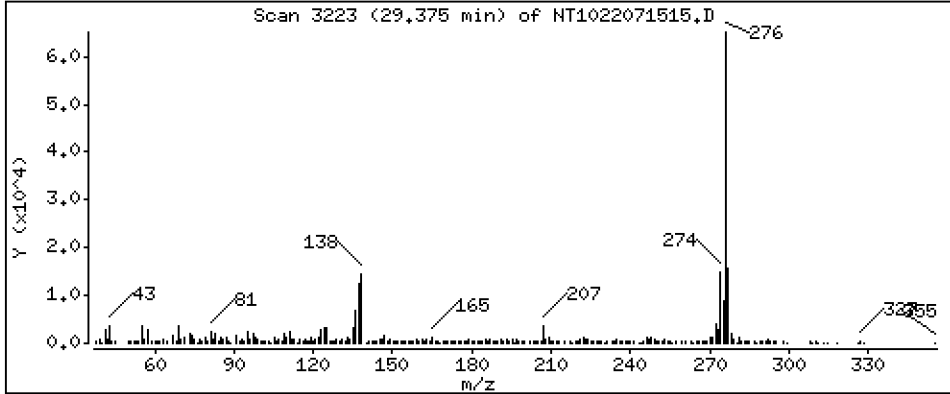
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 87,84 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

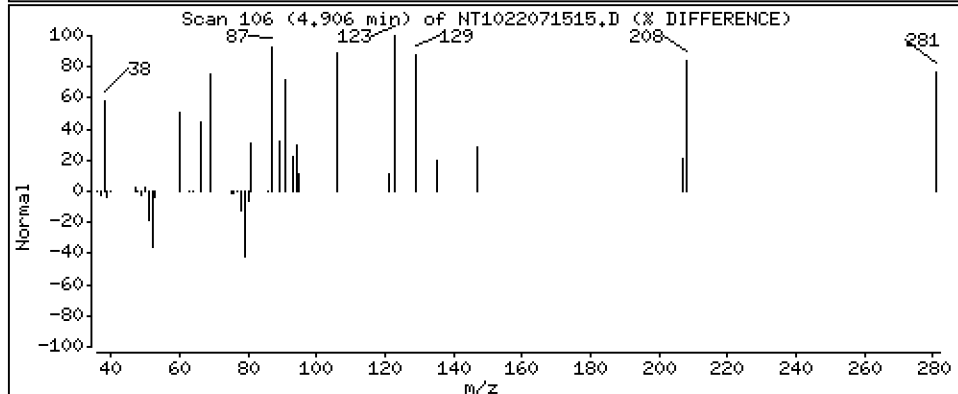
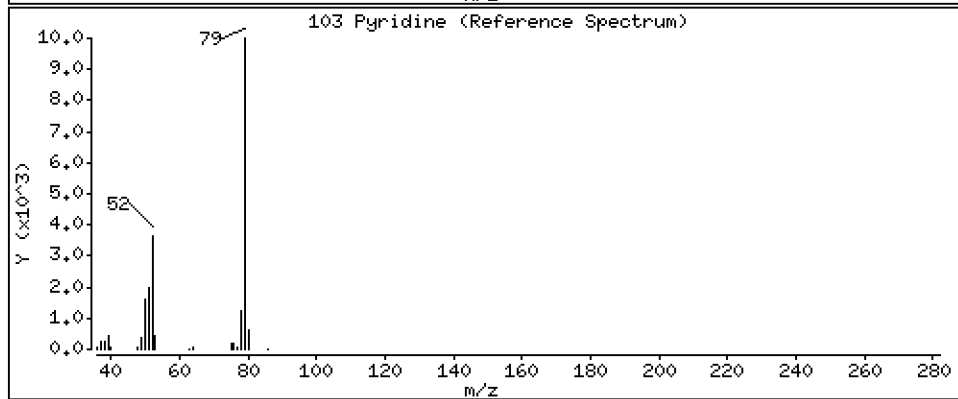
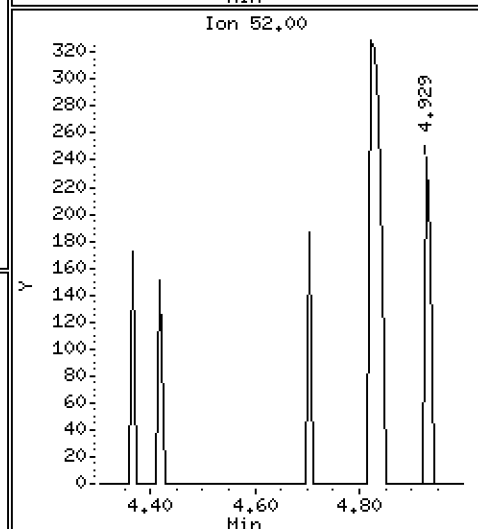
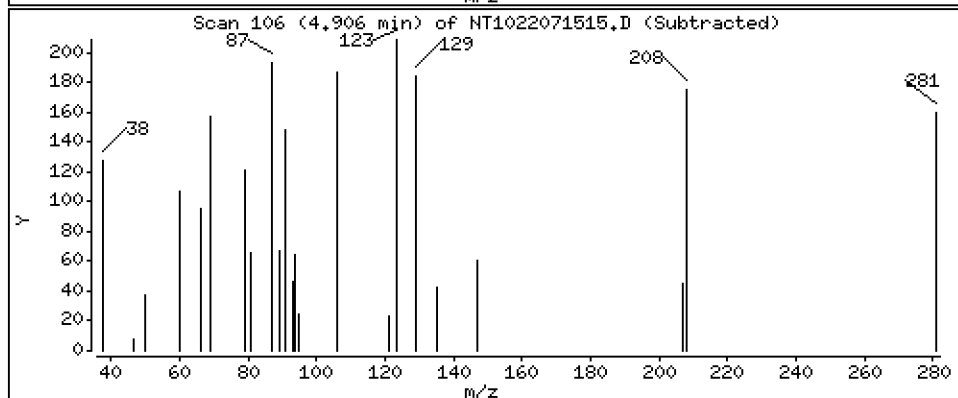
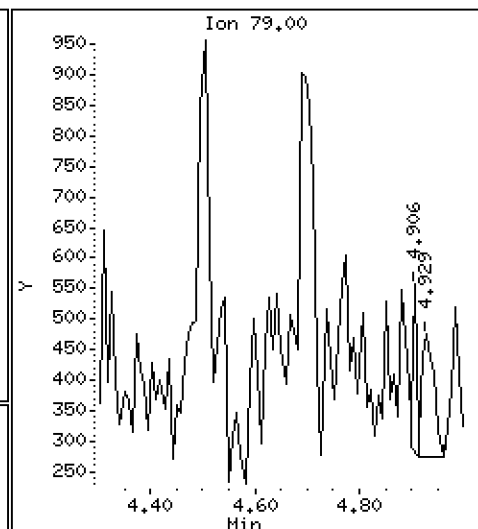
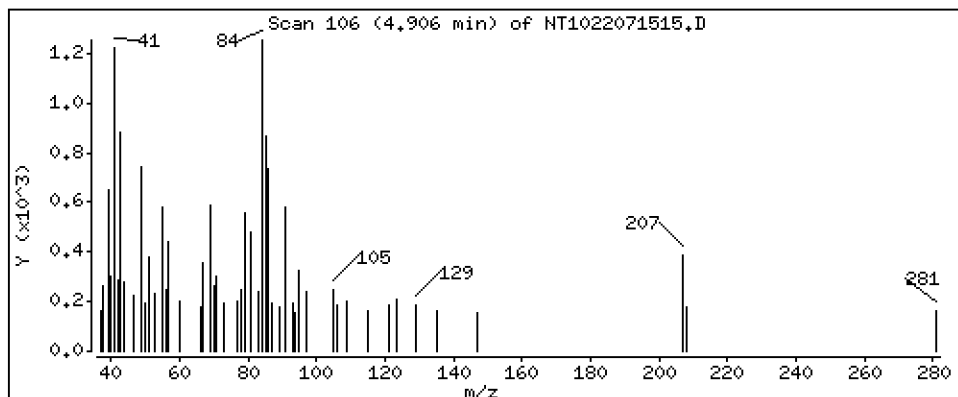
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,008660 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

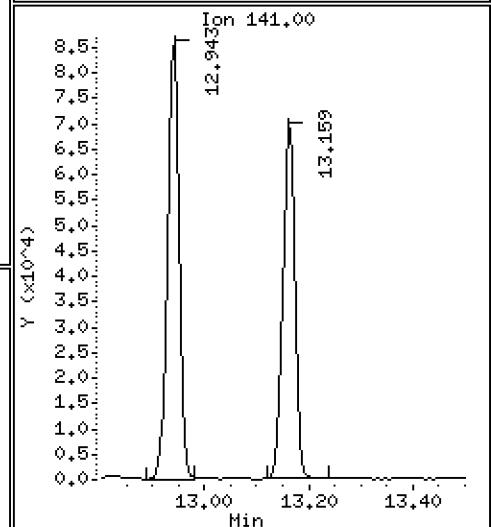
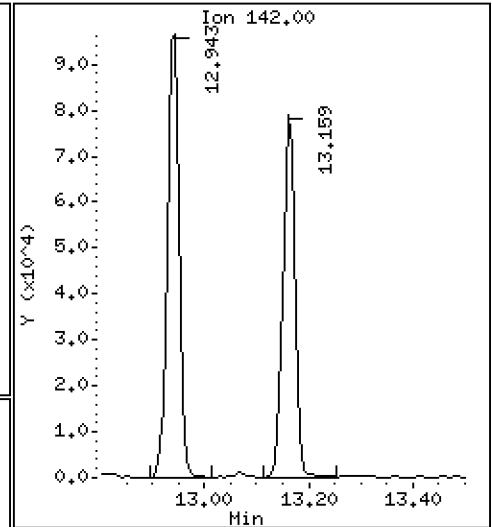
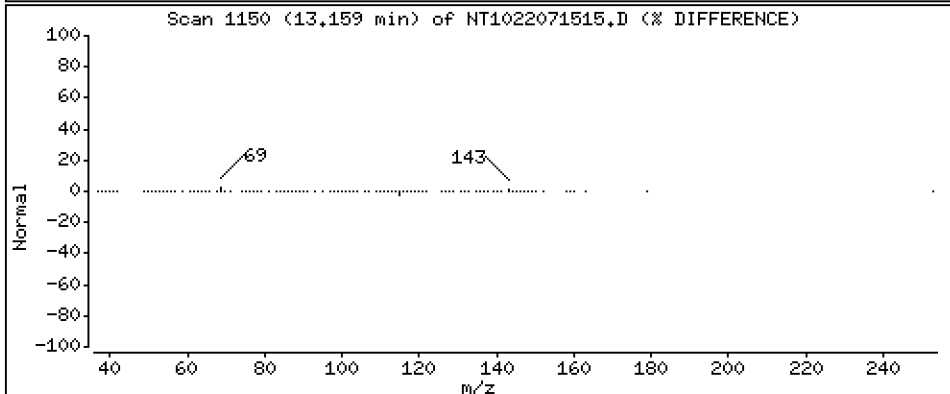
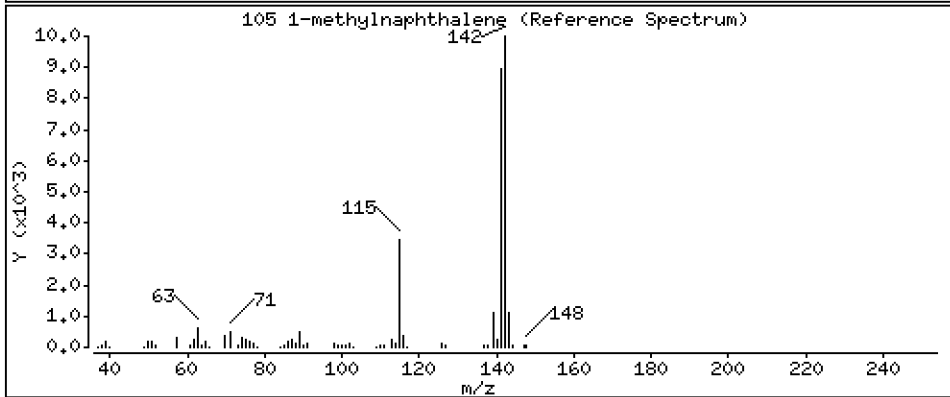
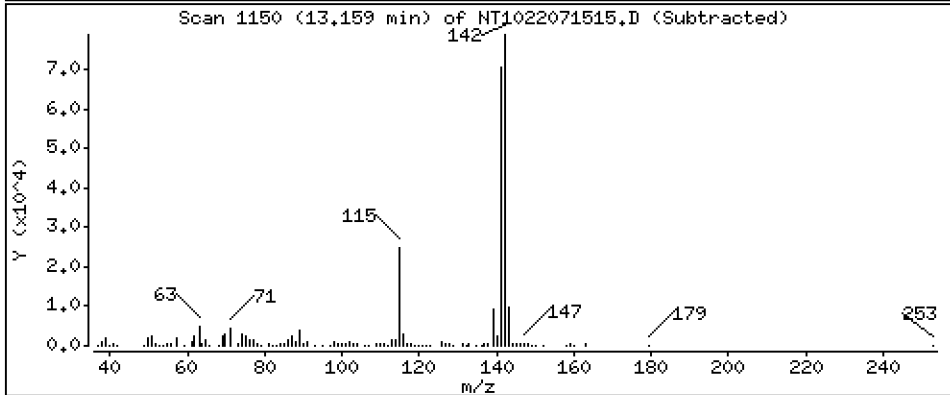
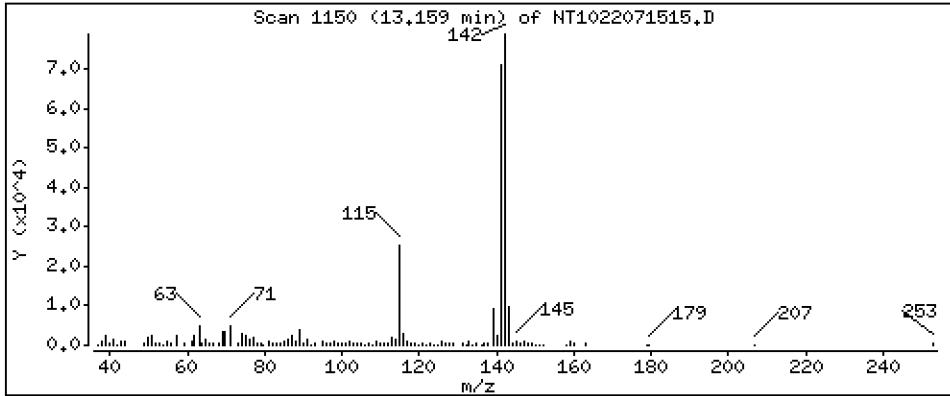
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,636 ug/mL



Date : 15-JUL-2022 21:18

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE1,10

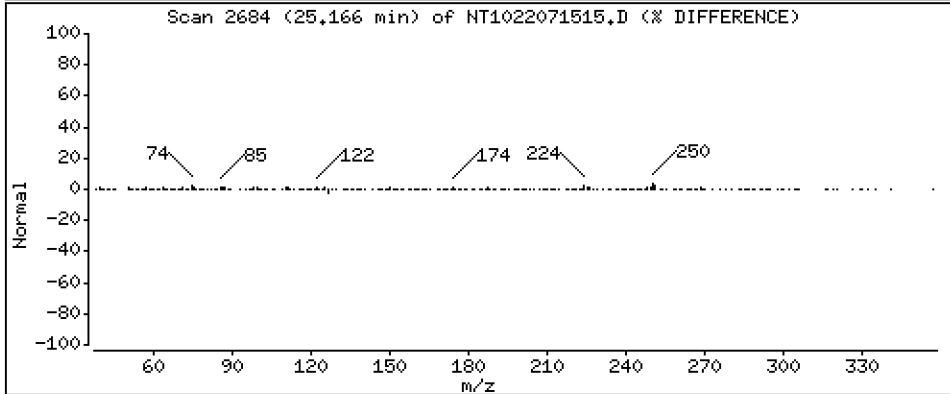
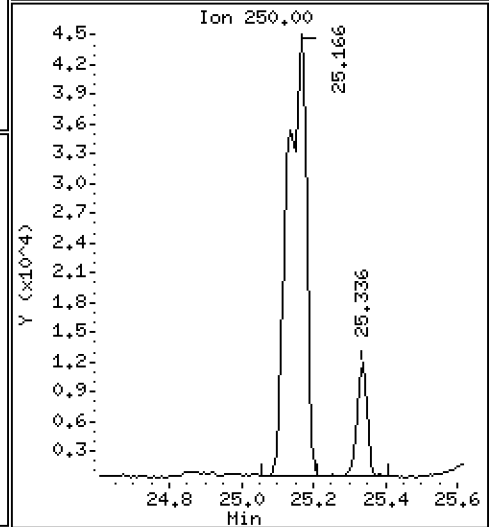
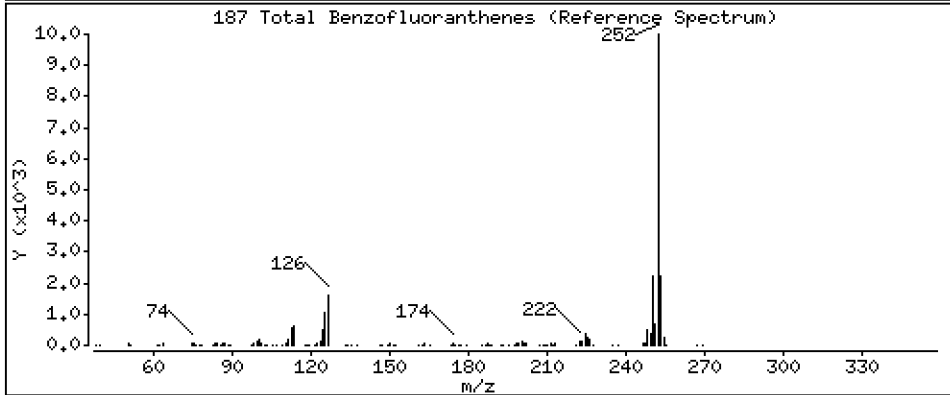
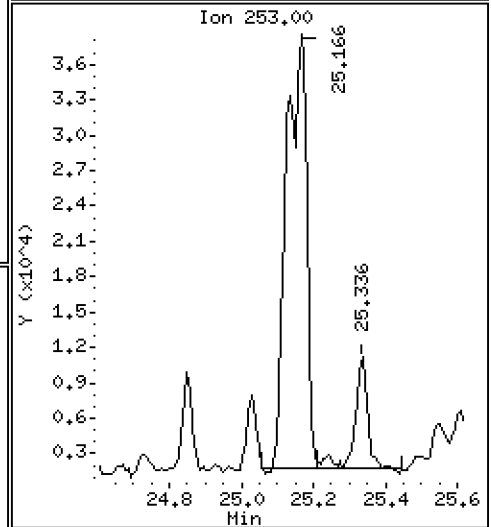
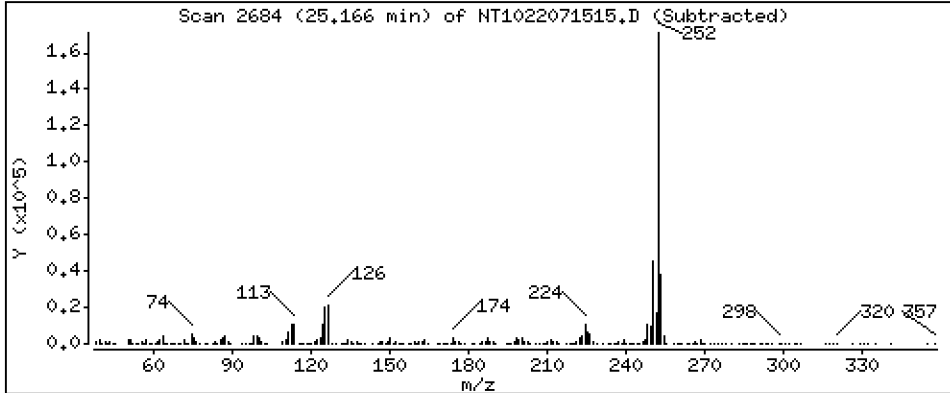
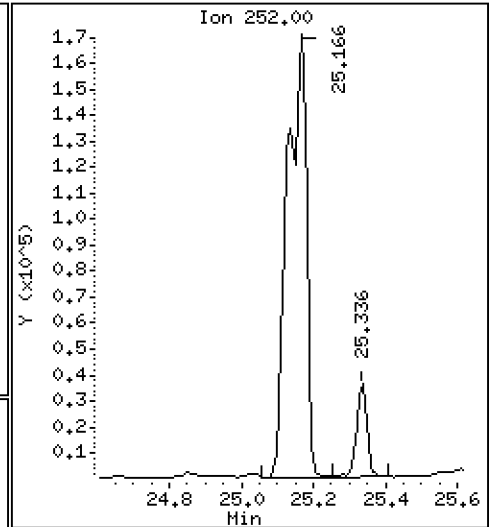
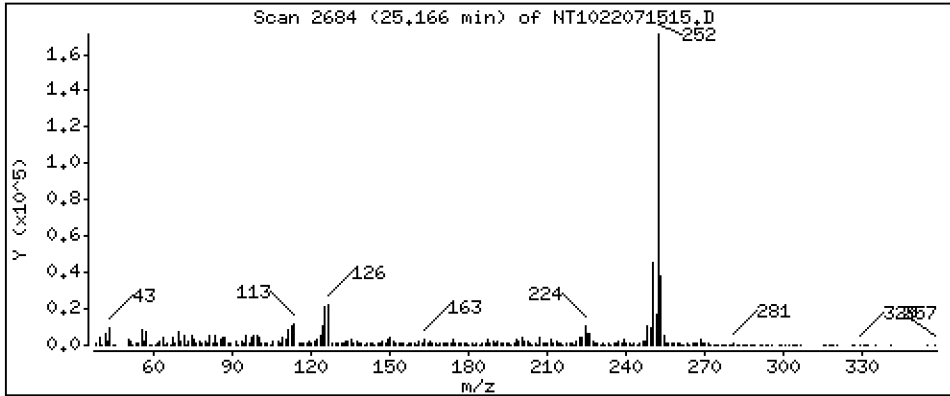
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 173,1 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071515.D
 Lab Smp Id: 22G0019-08RE1
 Inj Date : 15-JUL-2022 21:18
 Operator : VTS
 Smp Info : 22G0019-08RE1,10
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 15
 Dil Factor: 10.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.813	6.806	(0.756)	54796	0.52390	5.239
\$ 2 Phenol-d5	99		8.413	8.398	(0.934)	71177	0.45864	4.586
3 Phenol	94		8.428	8.421	(0.936)	13048	0.09649	0.9649
\$ 5 2-Chlorophenol-d4	132		8.660	8.652	(0.961)	67974	0.63781	6.378
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.008	9.001	(1.000)	286435	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.373	9.366	(1.040)	25663	0.39078	3.908
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		9.536	9.529	(1.059)	2412	0.02893	0.2893
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.808	9.793	(1.089)	9301	0.10438	1.044
\$ 18 Nitrobenzene-d5	82		10.103	10.095	(0.879)	38880	0.40703	4.070
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		10.852	10.836	(0.944)	4547	0.06155	0.6155
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.496	11.488	(1.000)	897699	4.00000	
28 Naphthalene	128		11.542	11.535	(1.004)	1001415	4.35873	43.59
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		12.942	12.927	(1.126)	158267	0.69313	6.931
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.724	13.716	(0.908)	102178	0.55499	5.550
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152		14.800	14.800	(0.979)	158134	0.66493	6.649
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.117	15.109	(1.000)	406841	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.186	15.179	(1.005)	391500	3.30881	33.09
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.511	15.511	(1.026)	199023	1.05842	10.58
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		16.230	16.223	(1.074)	619669	2.75794	27.58
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.770	16.762	(1.109)	8678	0.47306	4.731
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.168	18.161	(1.000)	512828	4.00000	
60 Phenanthrene	178		18.223	18.207	(1.003)	4376017	32.4800	324.8
61 Anthracene	178		18.308	18.300	(1.008)	1275153	8.88137	88.81
62 Carbazole	167		18.648	18.641	(1.026)	126870	0.95782	9.578
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.629	20.606	(0.887)	4959978	33.8114	338.1
65 Pyrene	202		21.062	21.031	(0.906)	4843364	29.1715	291.7
\$ 66 Terphenyl-d14	244		21.333	21.326	(0.917)	25024	0.67002	6.700
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.230	23.215	(0.999)	658379	14.5175	145.2
* 69 Chrysene-d12	240		23.253	23.246	(1.000)	107024	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.307	23.292	(1.002)	563886	15.2003	152.0
72 bis(2-Ethylhexyl)phthalate	149		23.307	23.308	(0.959)	5729	0.26660	2.666
* 134 Di-n-octylphthalate-d4	153		24.314	24.306	(1.000)	194417	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.134	25.112	(0.970)	320531	8.37591	83.76
75 Benzo(k)fluoranthene	252		25.165	25.158	(0.972)	350914	9.53621	95.36
76 Benzo(a)pyrene	252		25.793	25.762	(0.996)	452973	14.4625	144.6
* 77 Perylene-d12	264		25.901	25.878	(1.000)	84499	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.567	28.544	(1.103)	225304	6.73731	67.37
79 Dibenzo(a,h)anthracene	278		28.567	28.560	(1.103)	64155	2.50601	25.06
80 Benzo(g,h,i)perylene	276		29.375	29.329	(1.134)	234799	8.78350	87.84
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79		4.905	4.651	(0.545)	168	9e-004	0.008660
105 1-methylnaphthalene	142		13.159	13.151	(1.145)	126439	0.56362	5.636
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.165	25.112	(0.972)	617586	17.3086	173.1	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071515.D Calibration Time: 12:41
 Lab Smp Id: 22G0019-08RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	286435	42.12
27 Naphthalene-d8	649654	324827	1299308	897699	38.18
42 Acenaphthene-d10	370460	185230	740920	406841	9.82
59 Phenanthrene-d10	647298	323649	1294596	512828	-20.77
69 Chrysene-d12	221116	110558	442232	107024	-51.60
134 Di-n-octylphthala	319144	159572	638288	194417	-39.08
77 Perylene-d12	105234	52617	210468	84499	-19.70

<-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.01	0.08
27 Naphthalene-d8	11.49	10.99	11.99	11.50	0.06
42 Acenaphthene-d10	15.11	14.61	15.61	15.12	0.05
59 Phenanthrene-d10	18.16	17.66	18.66	18.17	0.04
69 Chrysene-d12	23.25	22.75	23.75	23.25	0.03
134 Di-n-octylphthala	24.31	23.81	24.81	24.31	0.03
77 Perylene-d12	25.88	25.38	26.38	25.90	0.09

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

REVIEW SUMMARY FOR FILE - NT1022071515.D

Lab ID: 22G0019-08RE1
nt10.i, ABN.m, 15-JUL-2022 21:18

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.545	0.517	0.0278	Pyridine

RRT check based on Ccal File: NT1022071502.D

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

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



Form I
ORGANIC ANALYSIS DATA SHEET

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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-08RE2 A

SDG: 22G0019

Sampled: 06/28/22 12:15

Prepared: 07/07/22 10:01

File ID: NT1022071610.D

% Solids: 57.29

Preparation: EPA 3546 (Microwave)

Analyzed: 07/16/22 16:25

Batch: BKG0069

Sequence: SKG0171

Initial/Final: 17.49 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	50	4310	D	212	998
91-57-6	2-Methylnaphthalene	50	667	J, D	225	998
83-32-9	Acenaphthene	50	3450	D	260	998
87-86-5	Pentachlorophenol	50	1560	U	1560	4990
85-01-8	Phenanthrene	50	26900	D	435	998
206-44-0	Fluoranthene	50	38100	D	304	998
56-55-3	Benzo(a)anthracene	50	14000	D	297	998
218-01-9	Chrysene	50	15400	D	302	998
205-99-2	Benzo(b)fluoranthene	50	8030	D	350	998
207-08-9	Benzo(k)fluoranthene	50	10300	D	250	998
50-32-8	Benzo(a)pyrene	50	13900	D	211	998
193-39-5	Indeno(1,2,3-cd)pyrene	50	7290	D	731	998
53-70-3	Dibenzo(a,h)anthracene	50	2520	D	860	998
90-12-0	1-Methylnaphthalene	50	514	J, D	262	998

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.50			27 - 120	D1
Phenol-d5	748.50			29 - 120	D1
2-Chlorophenol-d4	748.50			31 - 120	D1
1,2-Dichlorobenzene-d4	499.00			32 - 120	D1
Nitrobenzene-d5	499.00			30 - 120	D1
2-Fluorobiphenyl	499.00			35 - 120	D1
2,4,6-Tribromophenol	748.50			24 - 134	D1
p-Terphenyl-d14	499.00			37 - 120	D1

Data File: \\target\share\chem3\nt10.1\20220716A.B\NT1022071610.D

Date: 16-JUL-2022 16:25

Client ID:

Sample Info: 2200019-08RE2.50

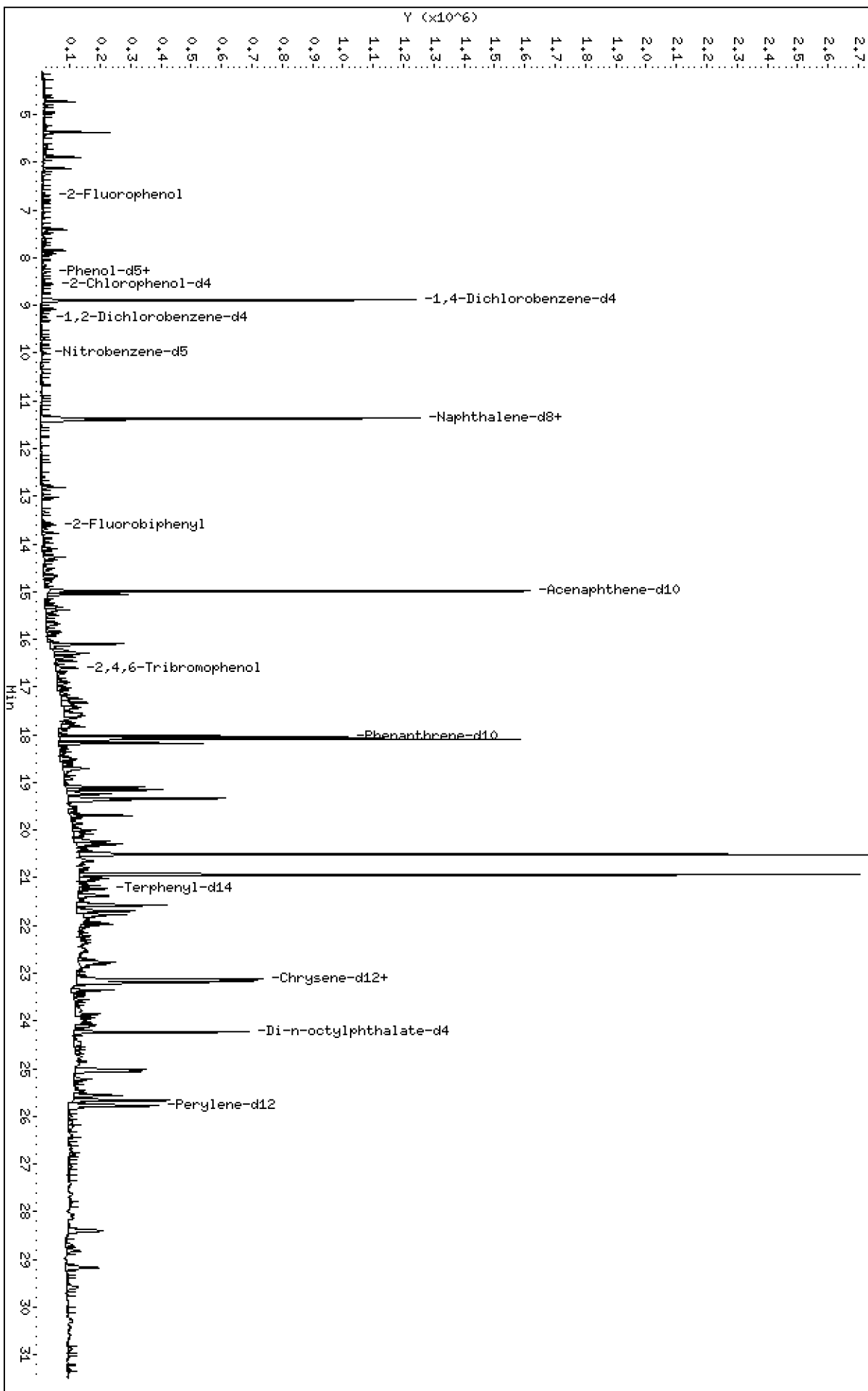
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20220716A.B\NT1022071610.D



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

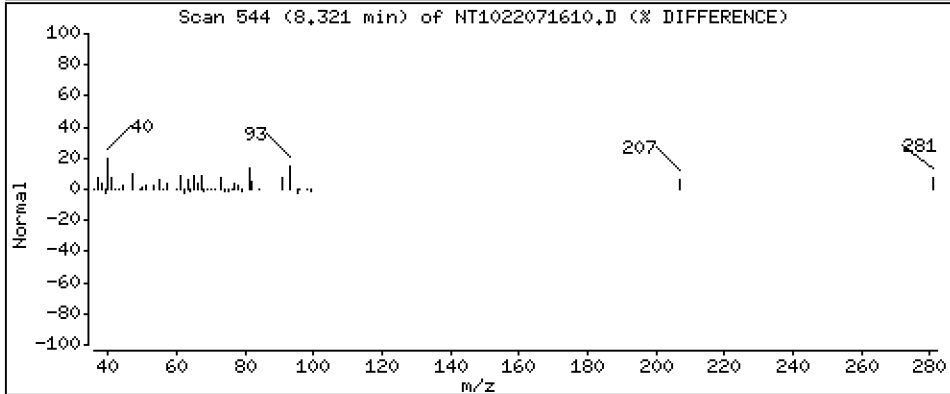
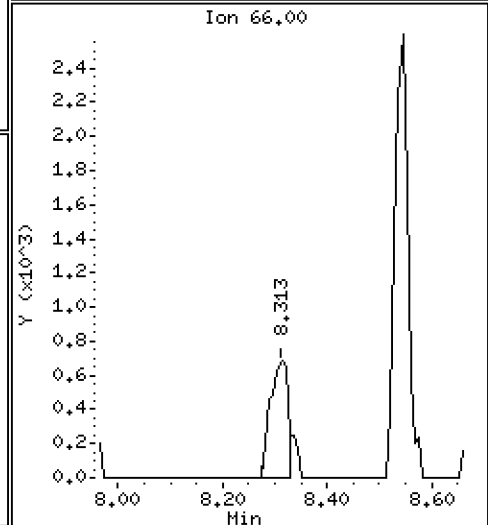
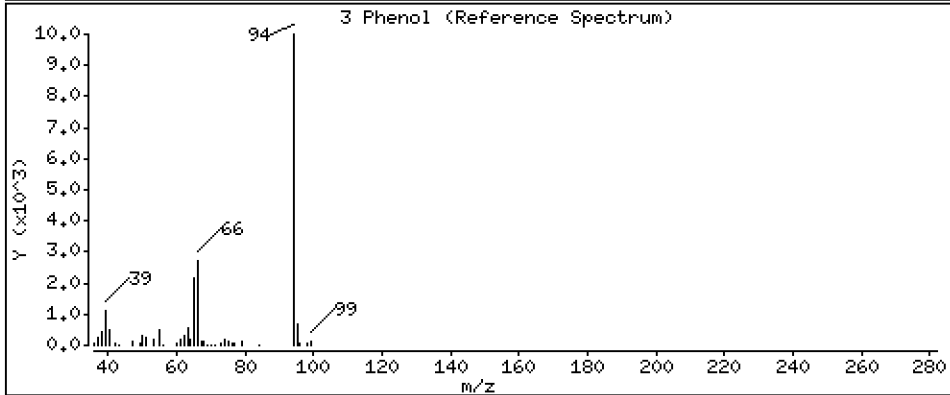
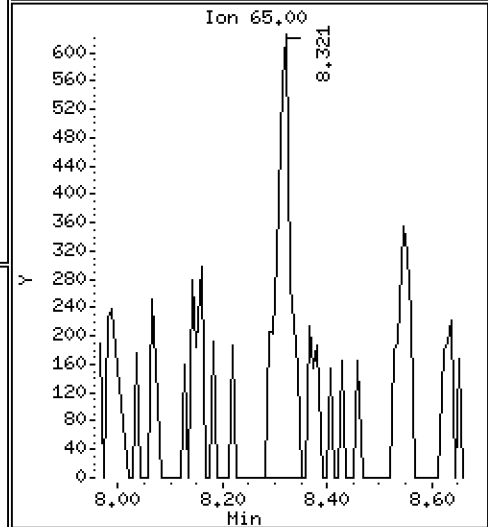
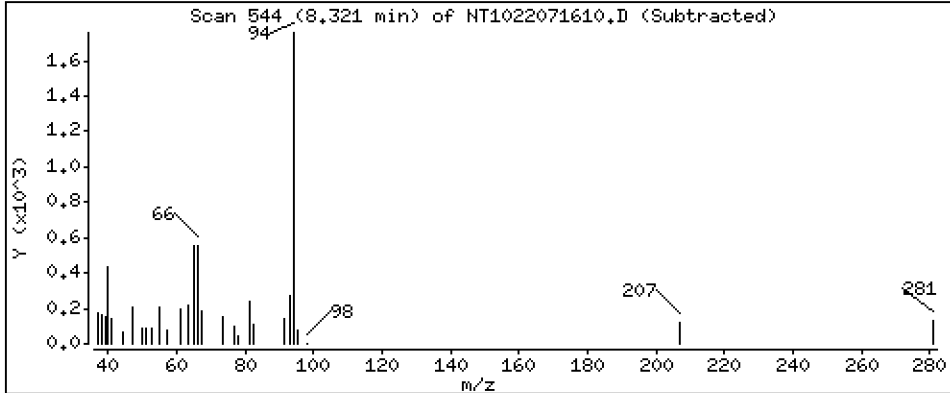
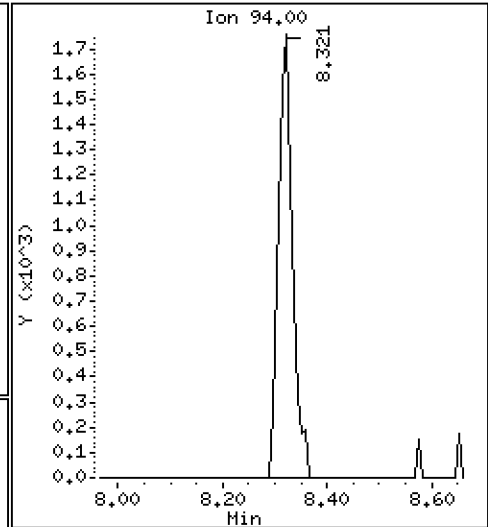
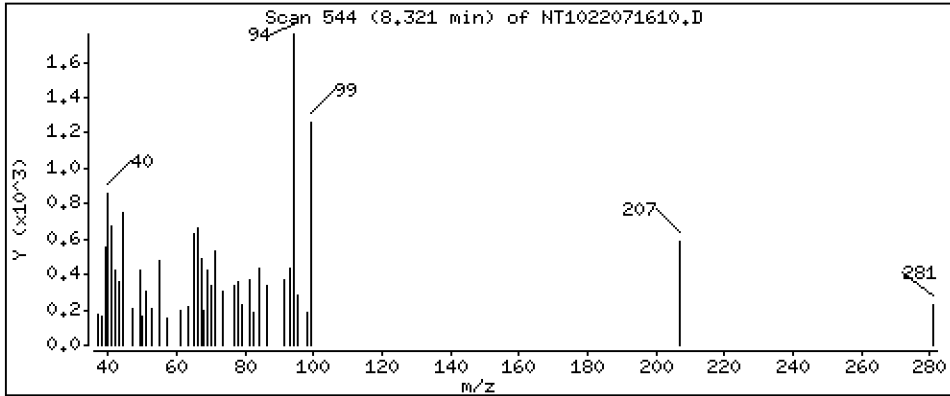
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 1,026 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08RE2,50

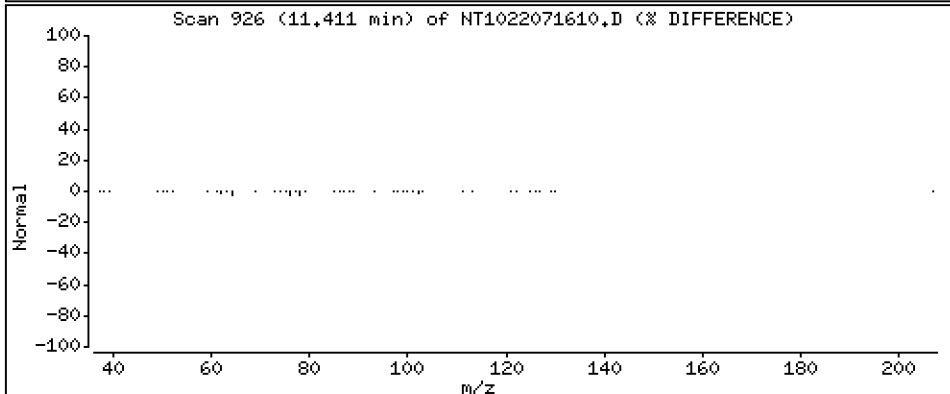
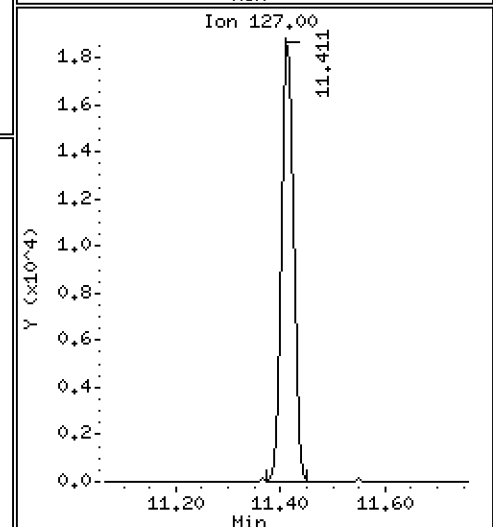
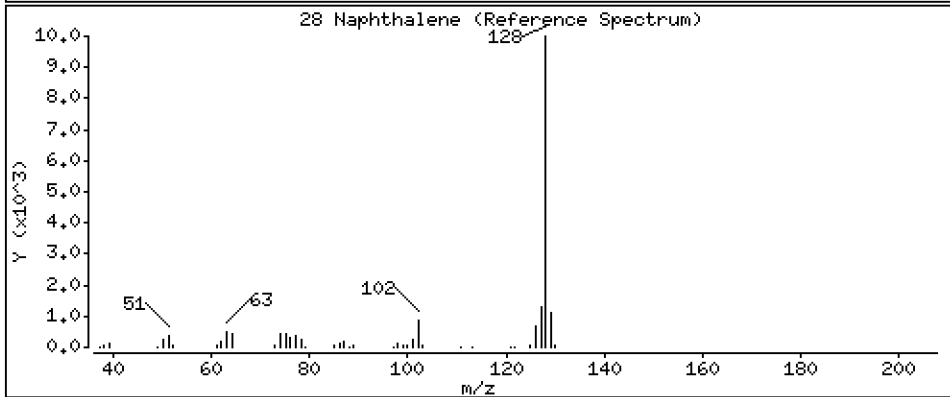
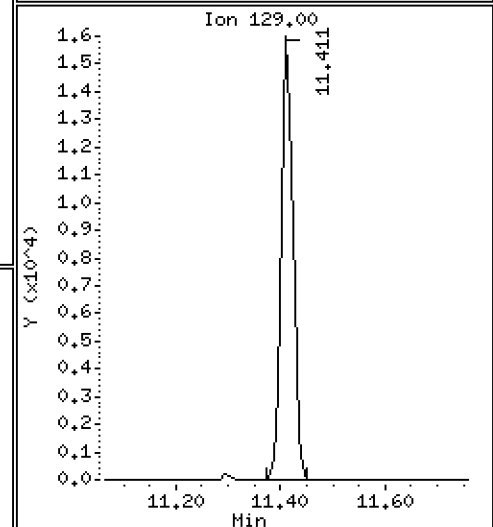
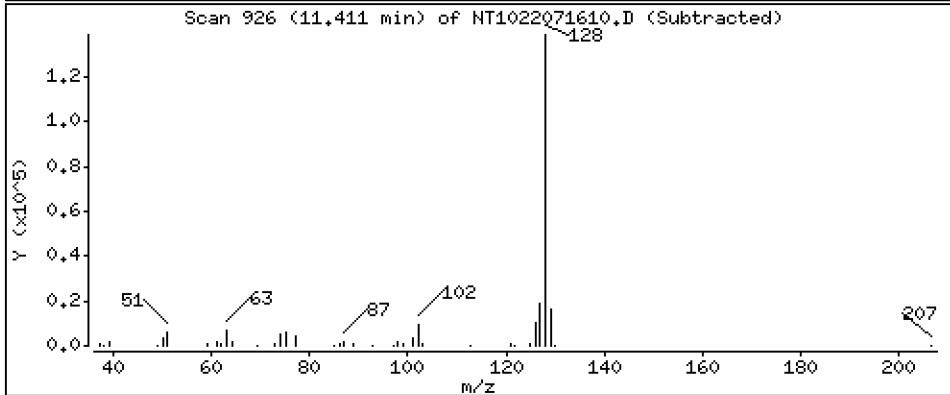
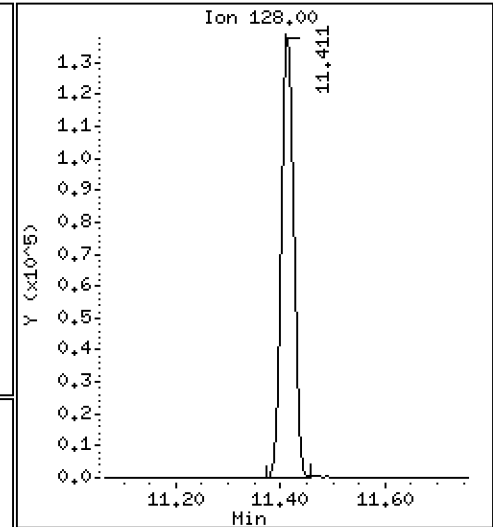
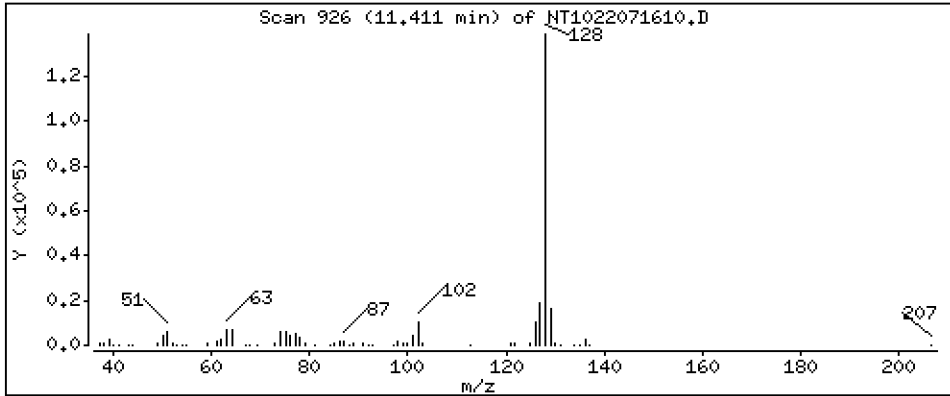
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 43,20 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

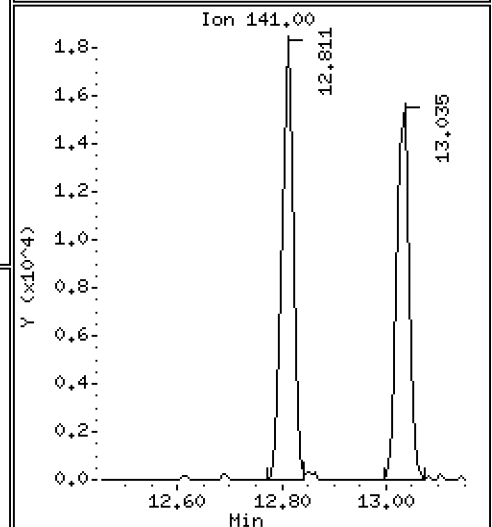
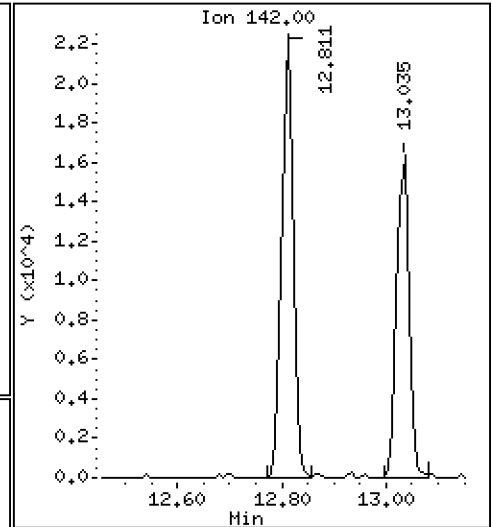
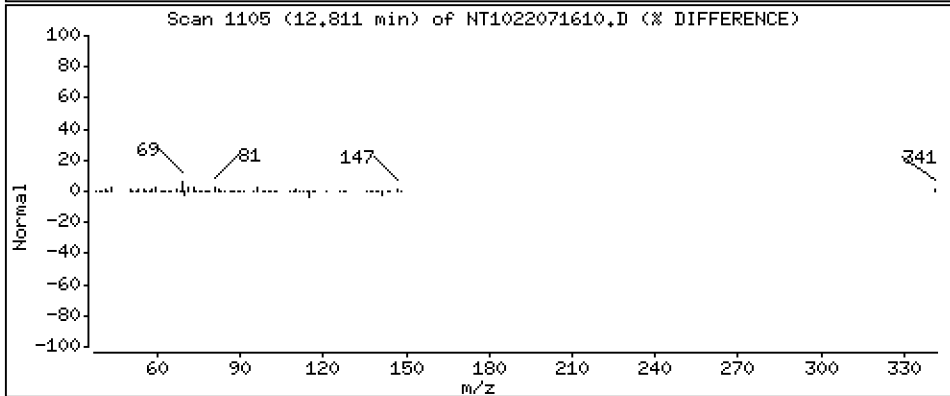
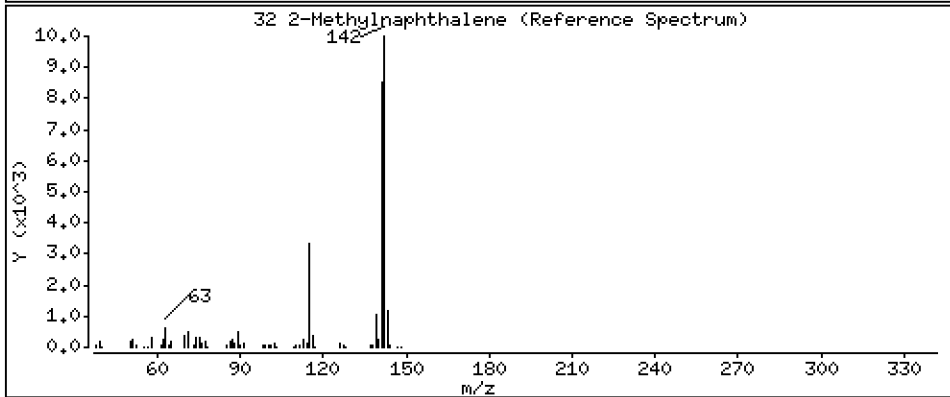
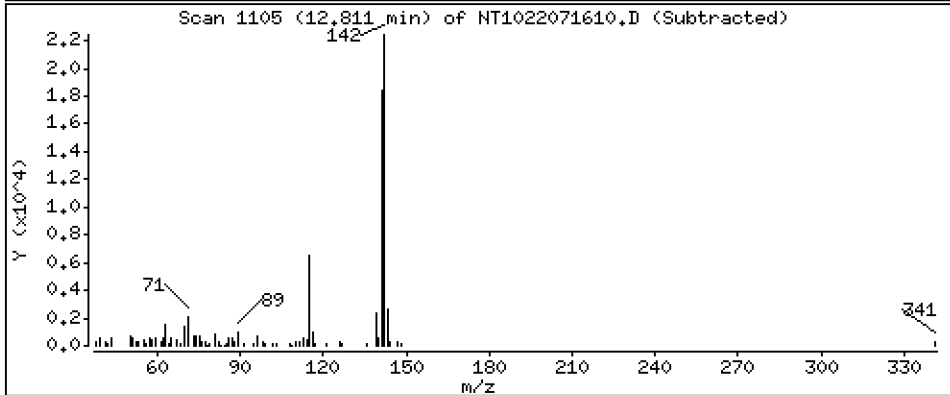
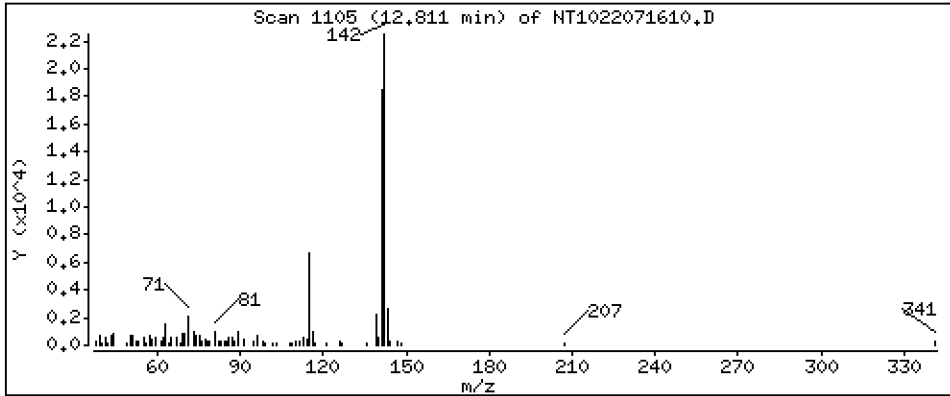
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 6,679 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

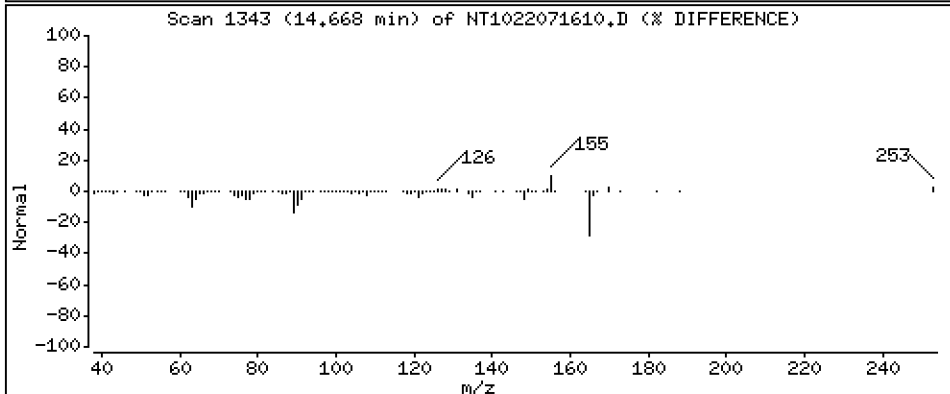
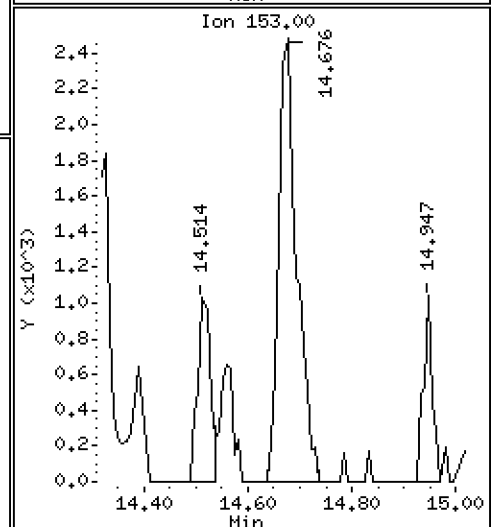
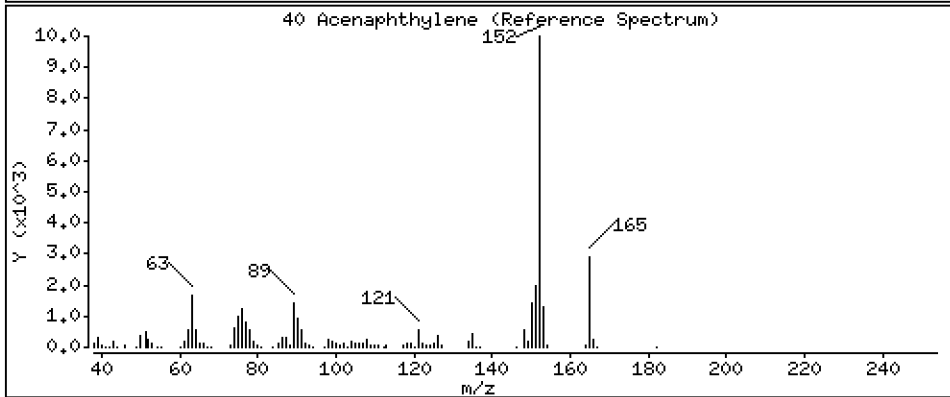
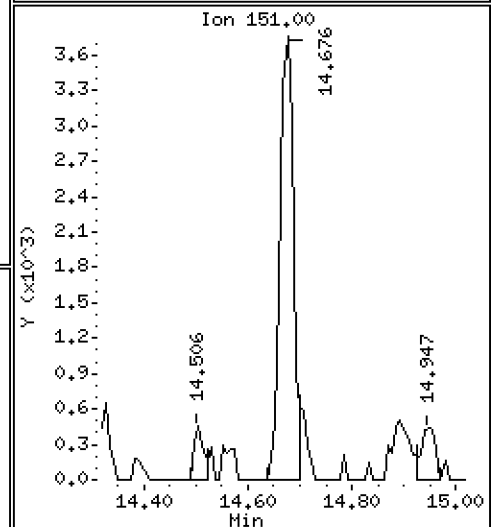
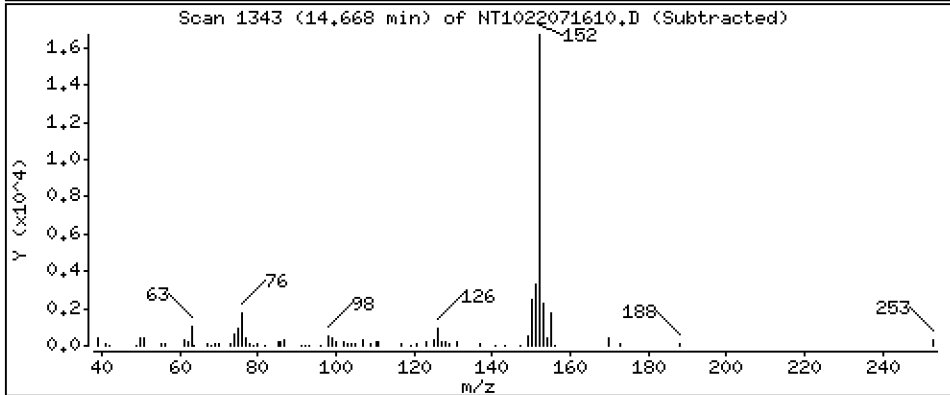
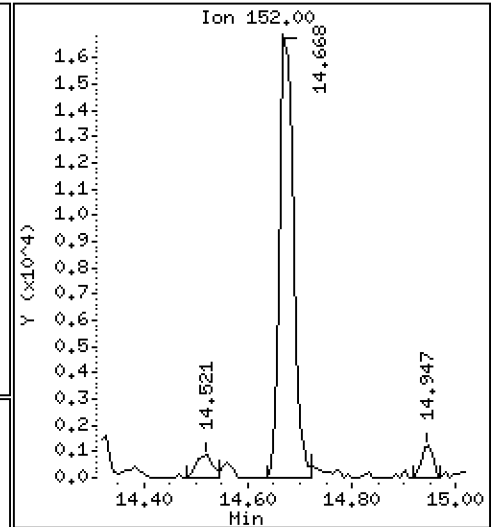
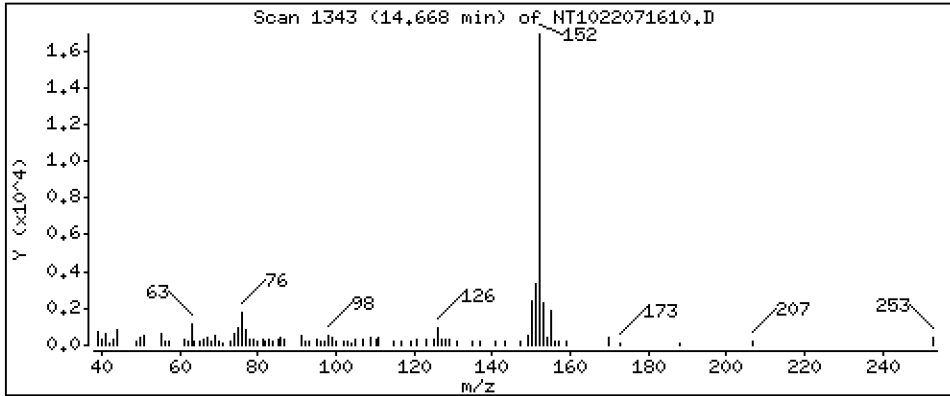
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 3,906 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

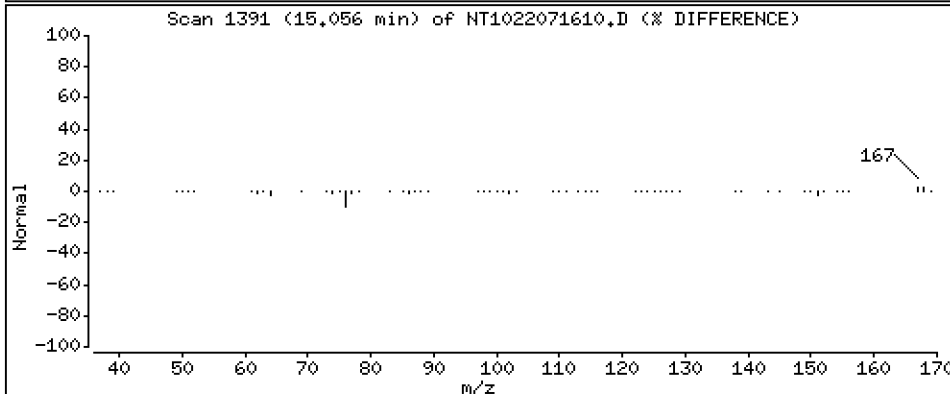
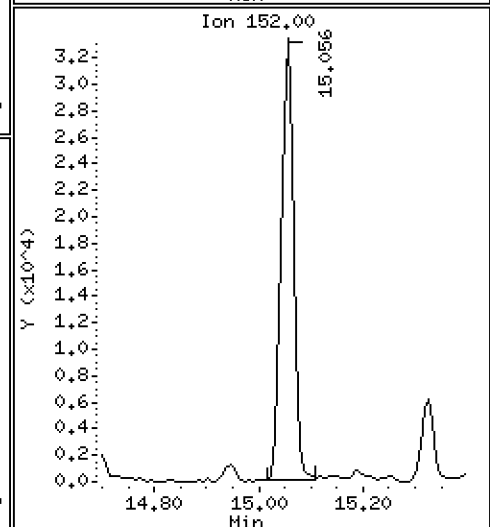
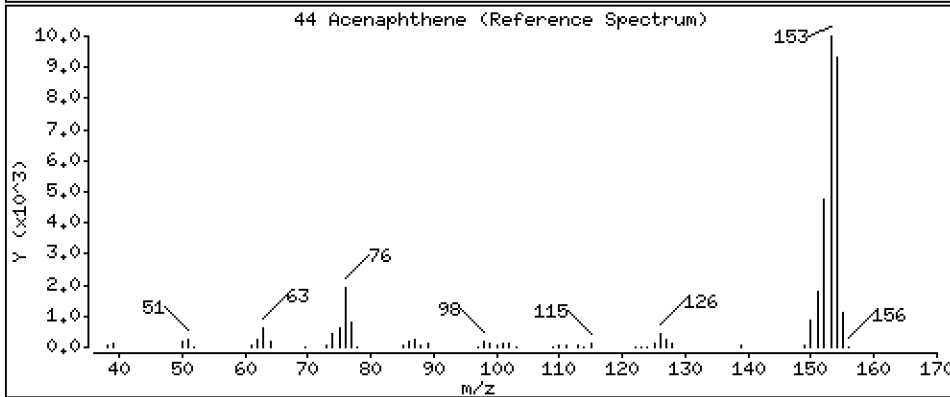
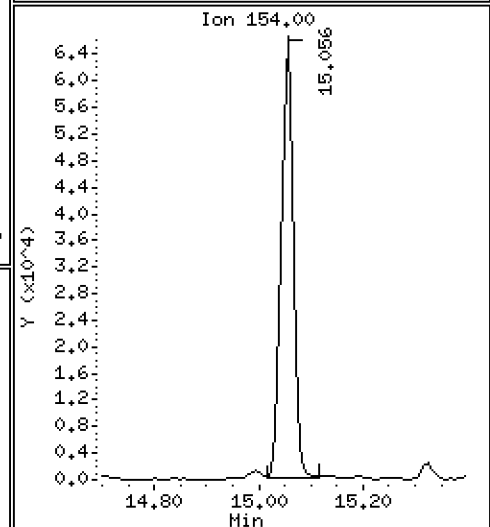
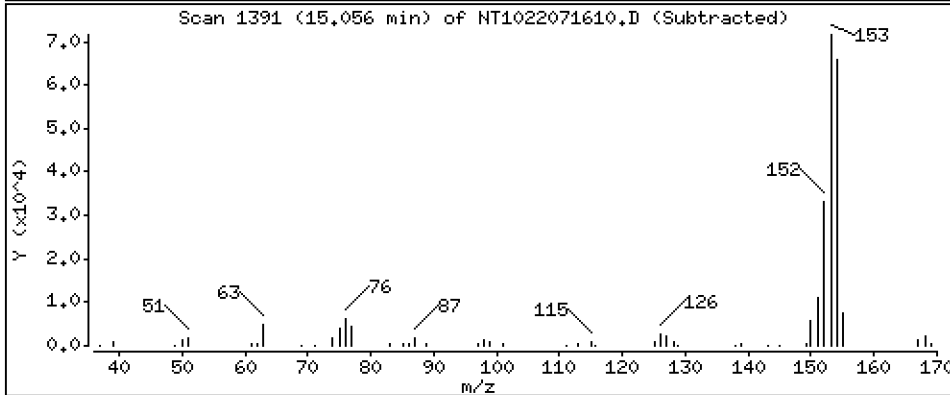
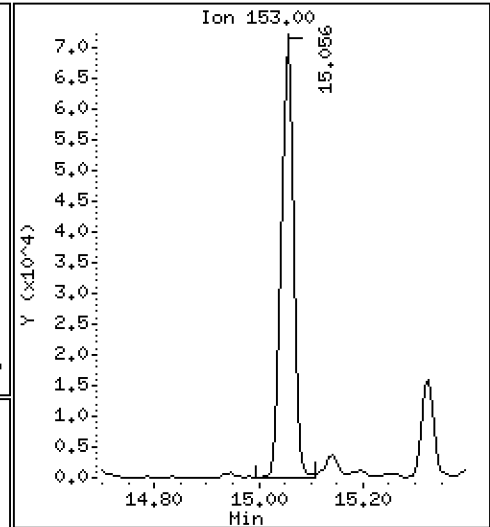
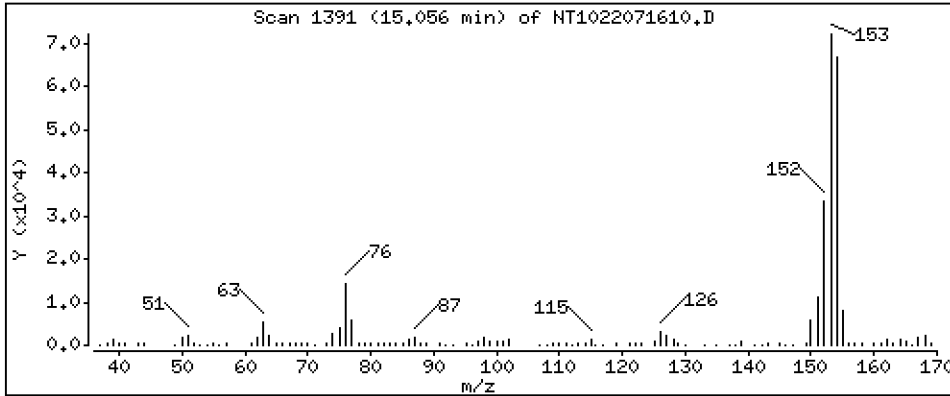
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 34,58 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

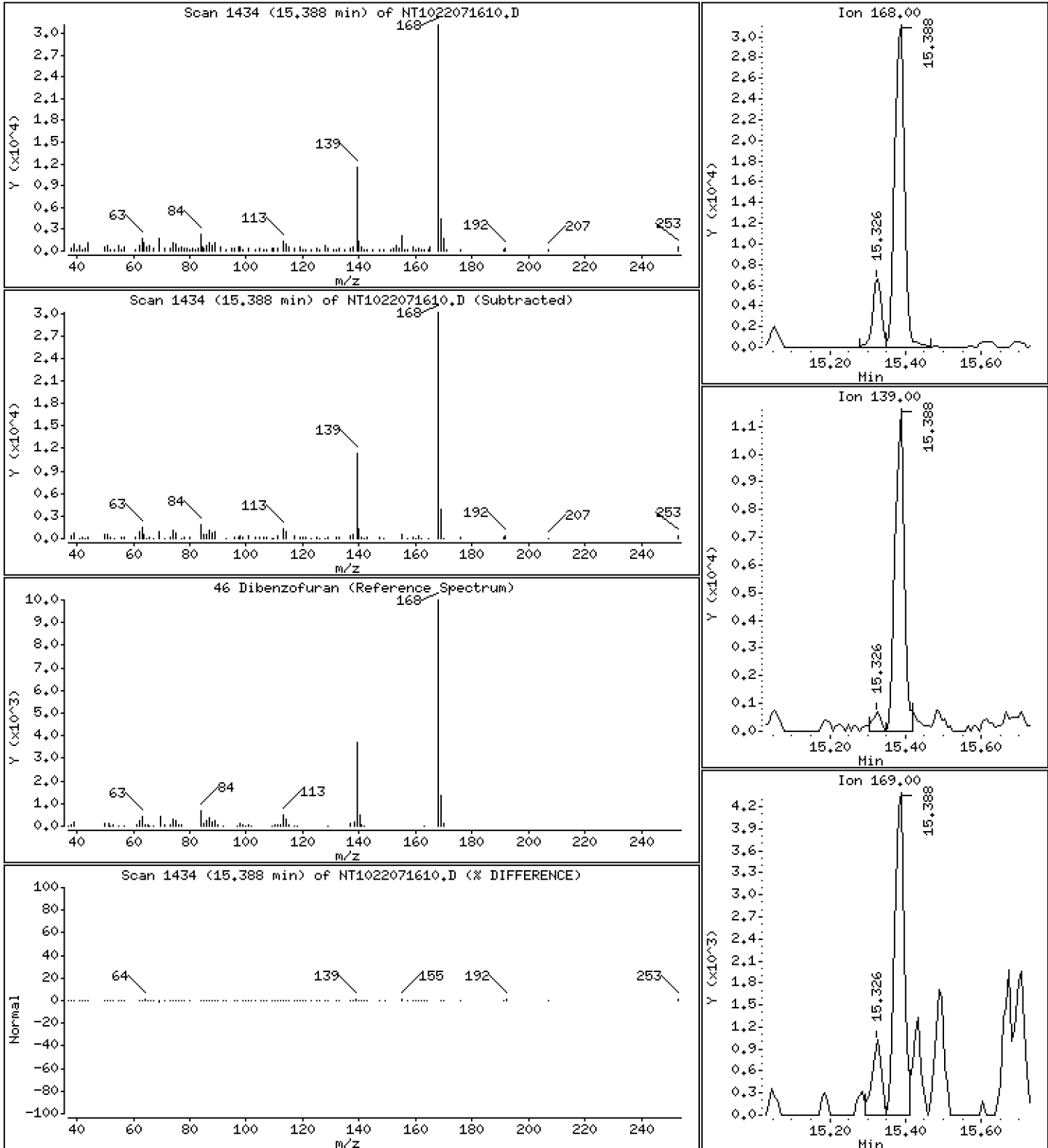
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 8,826 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

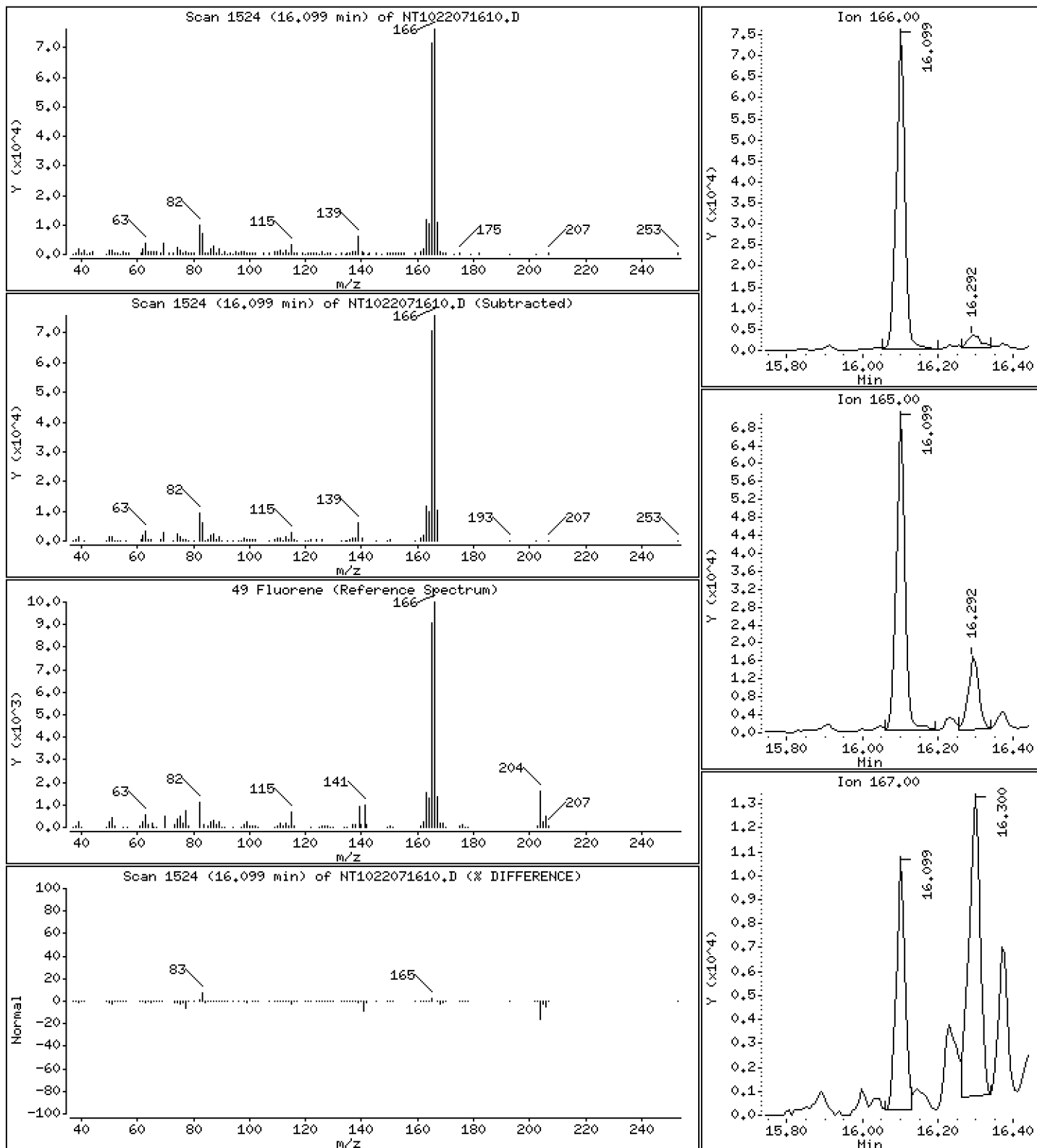
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 17,91 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08RE2,50

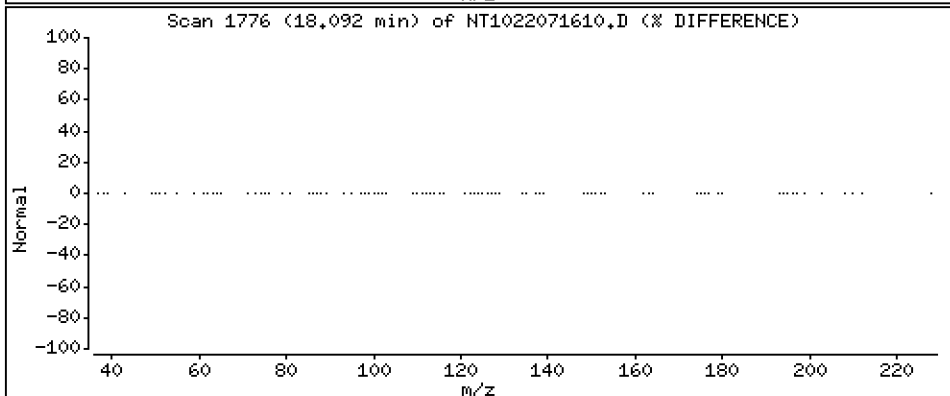
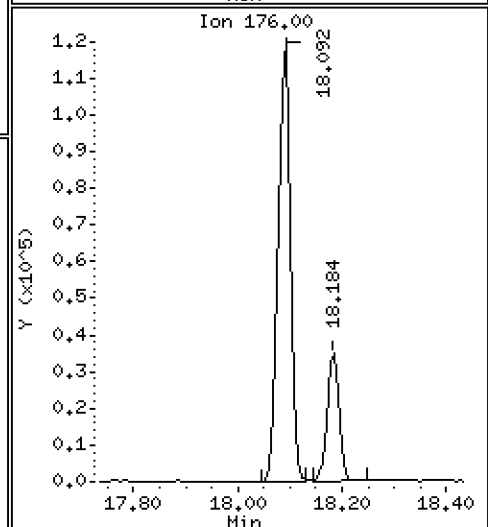
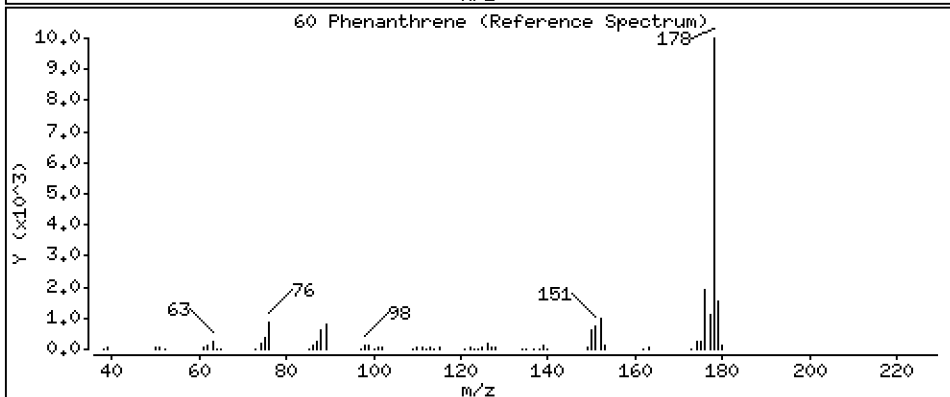
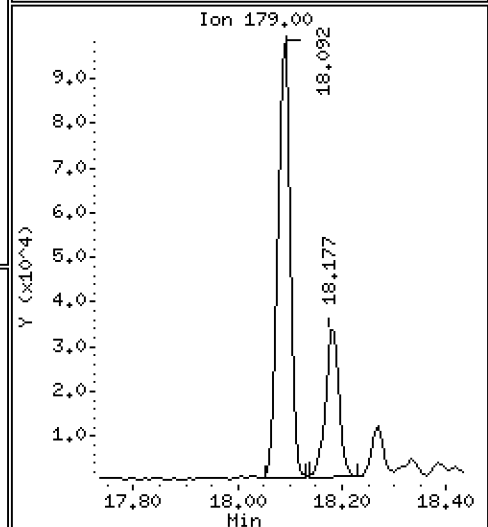
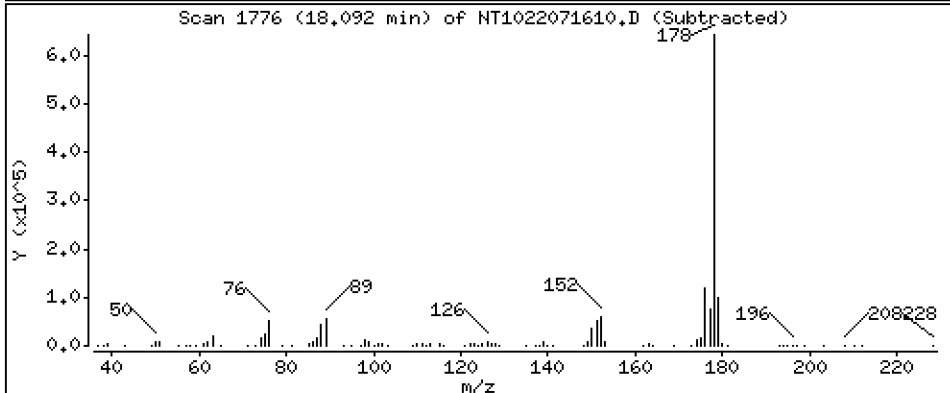
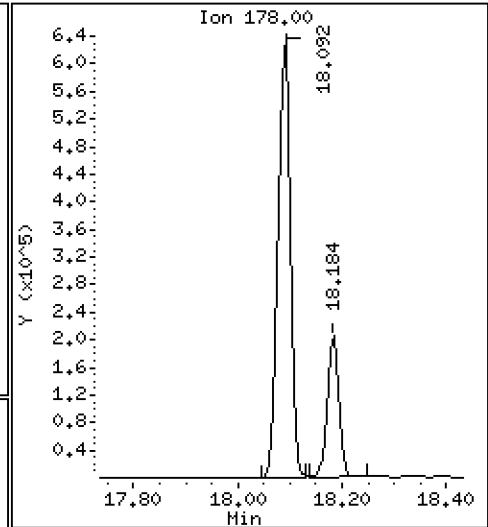
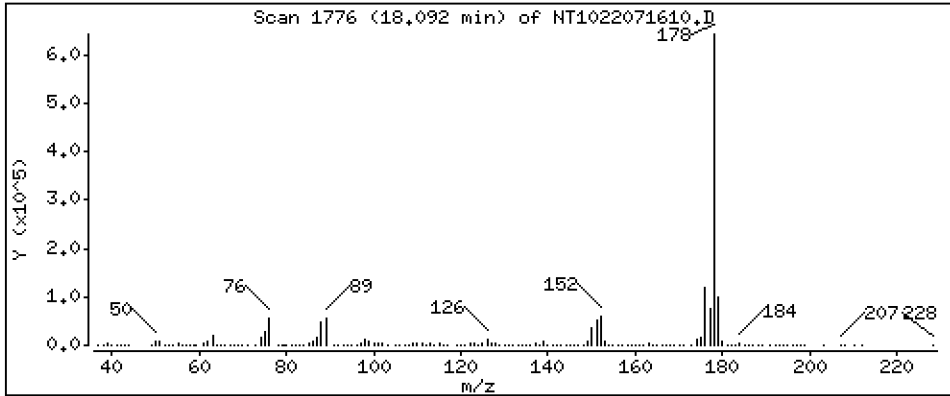
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 269,7 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08RE2,50

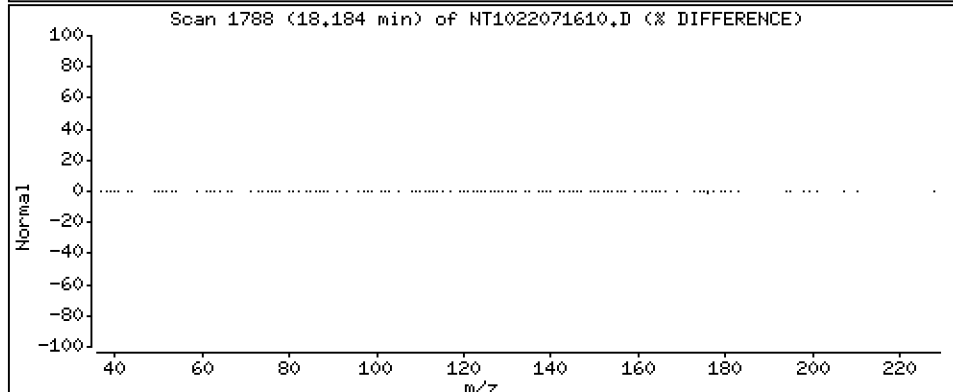
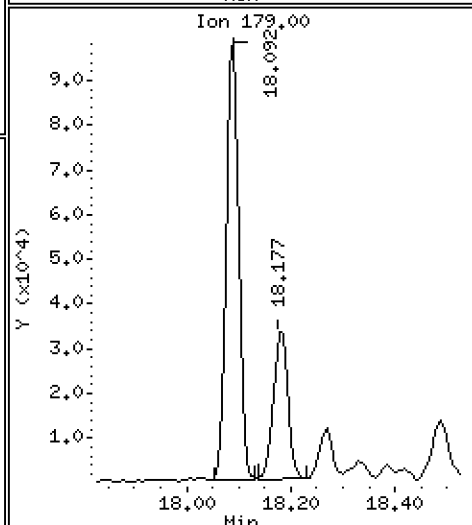
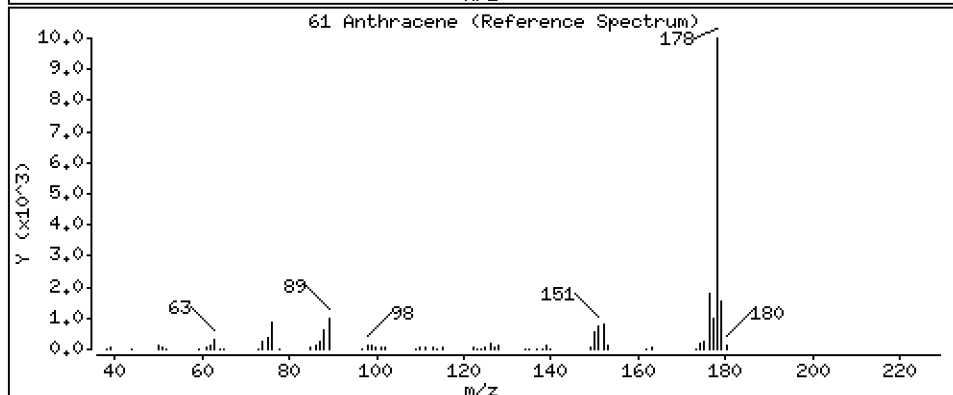
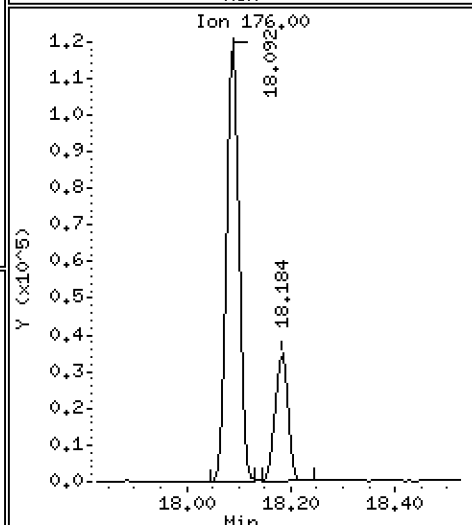
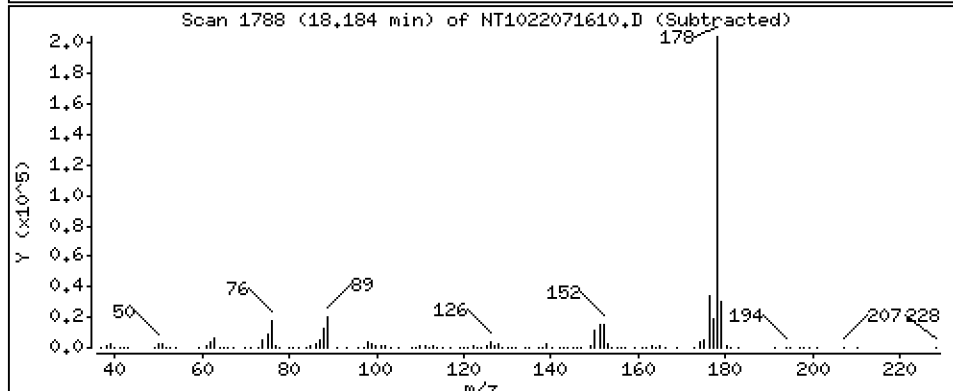
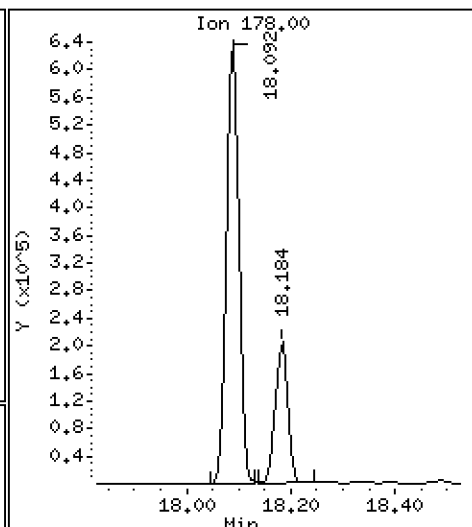
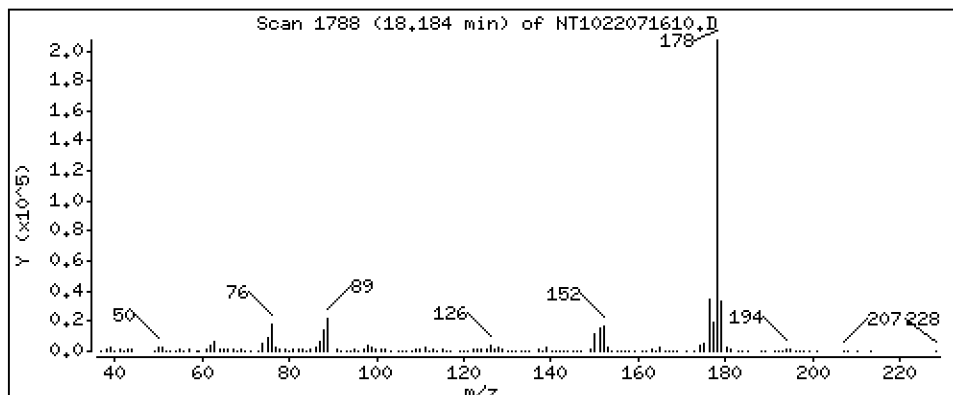
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 82,89 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

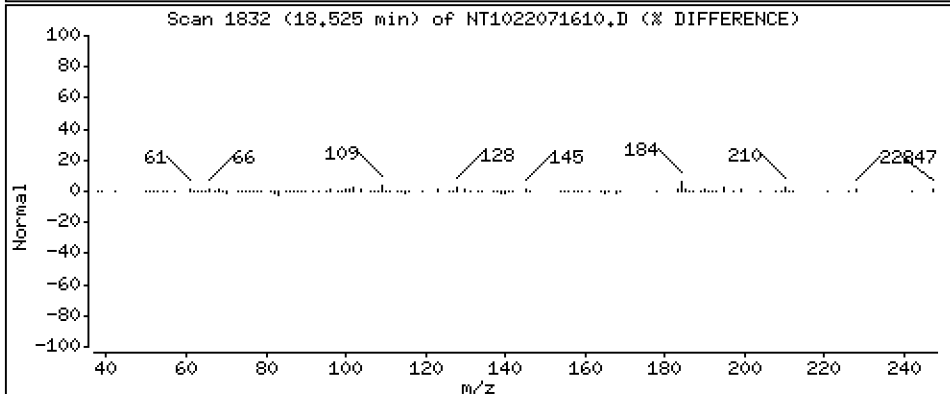
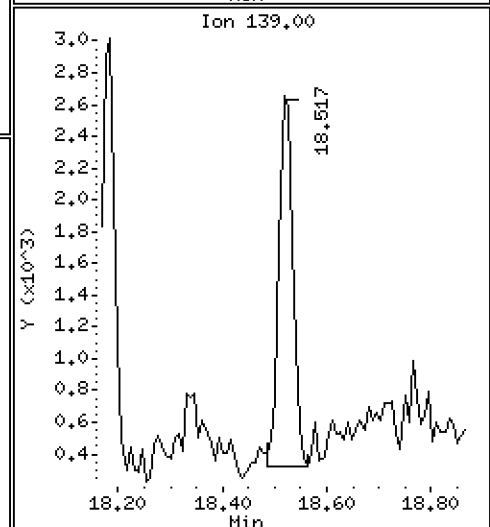
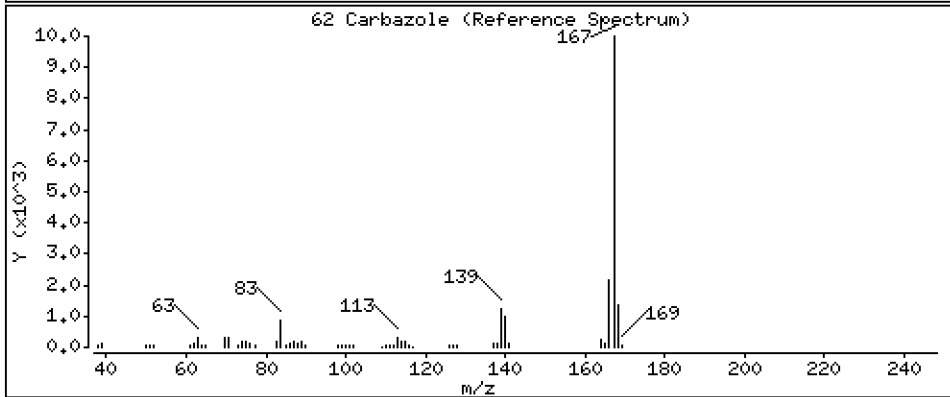
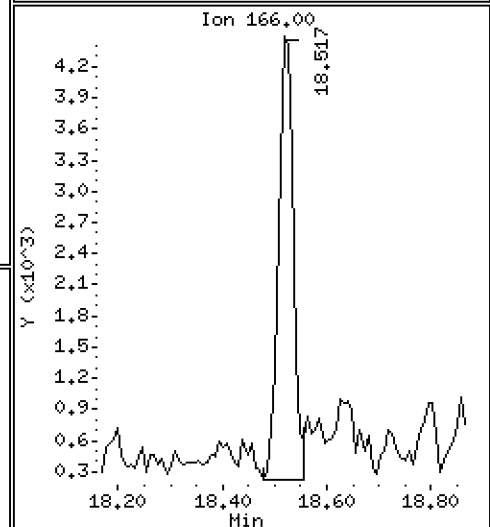
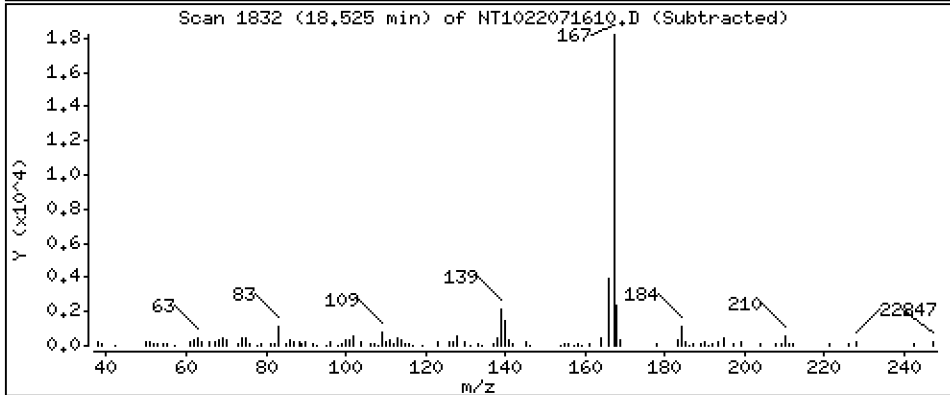
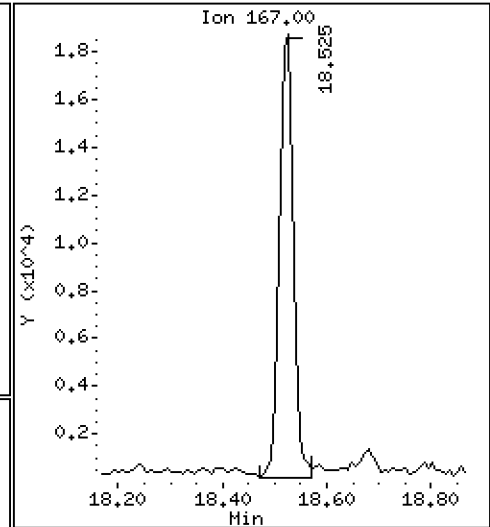
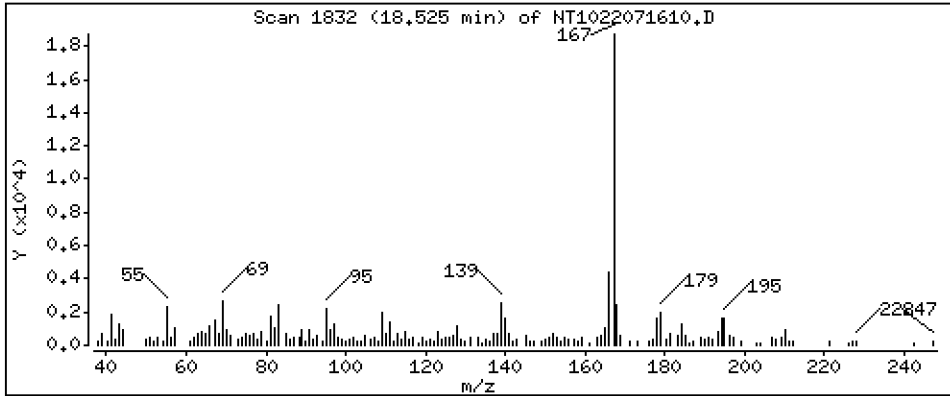
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 9,170 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

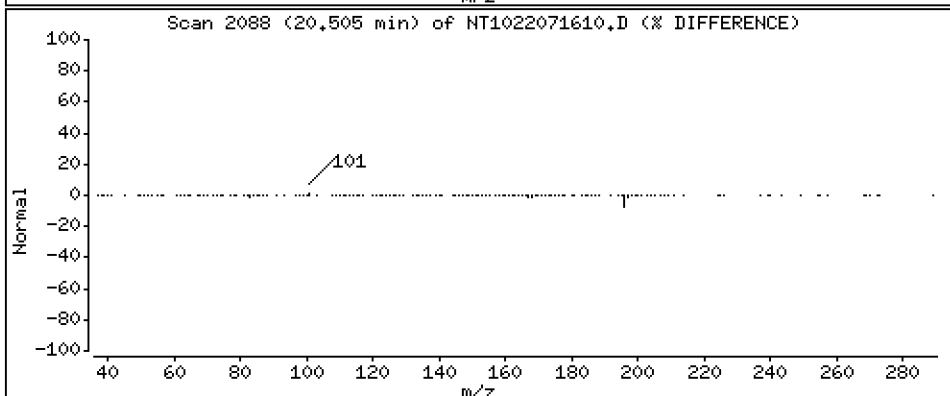
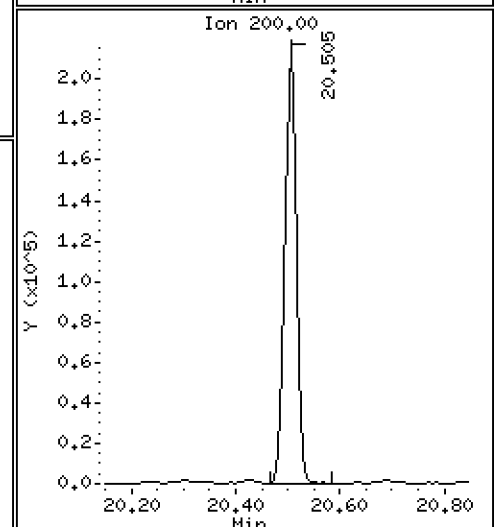
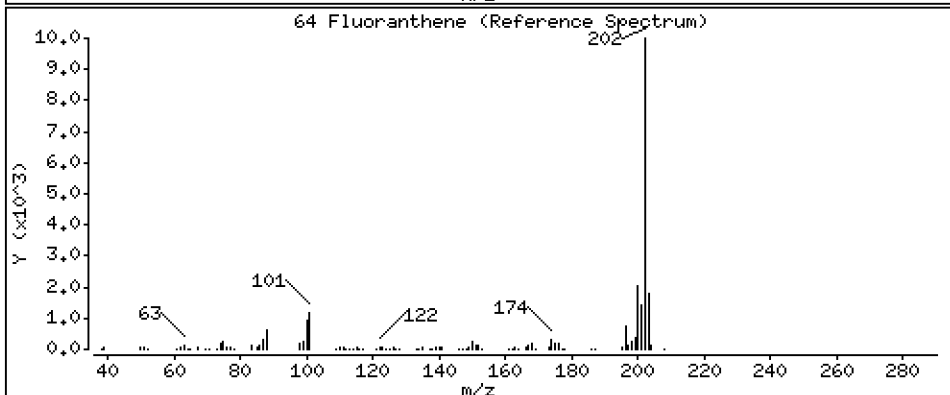
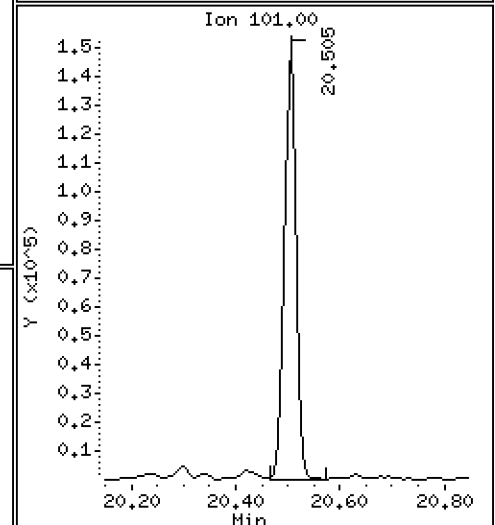
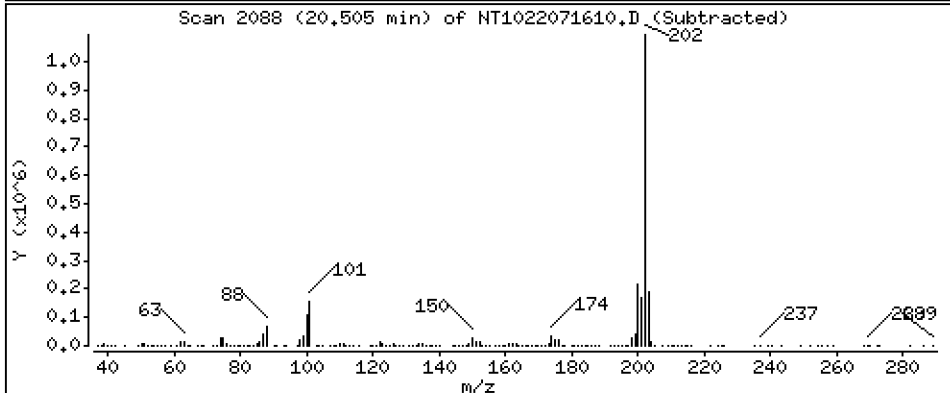
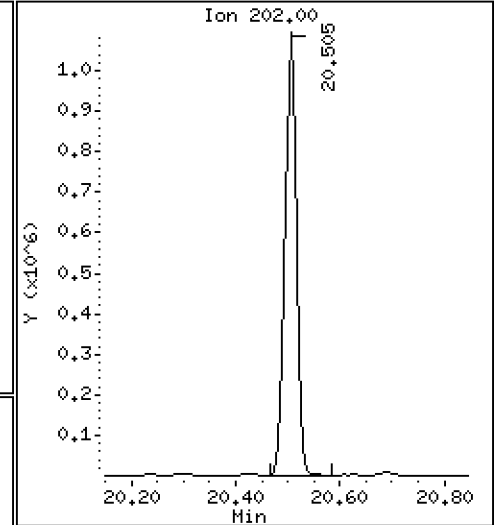
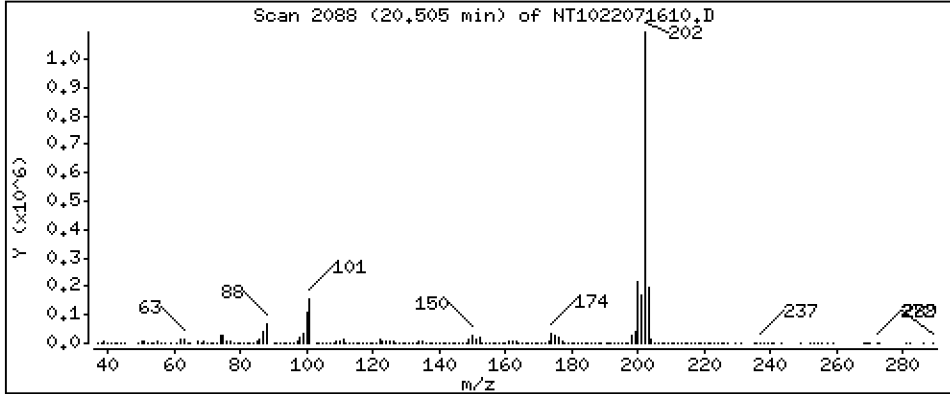
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 381,5 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

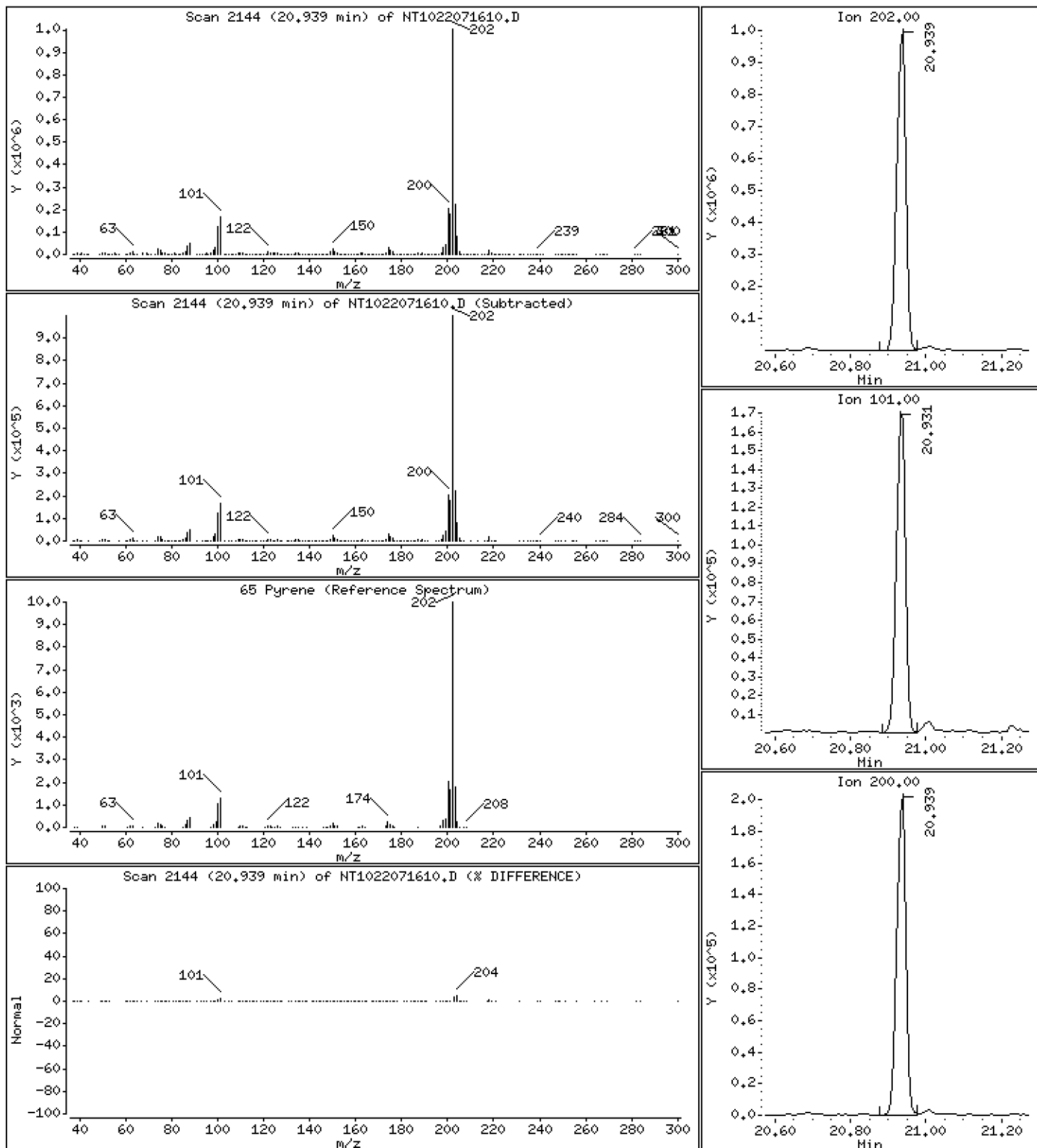
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 438,2 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08RE2,50

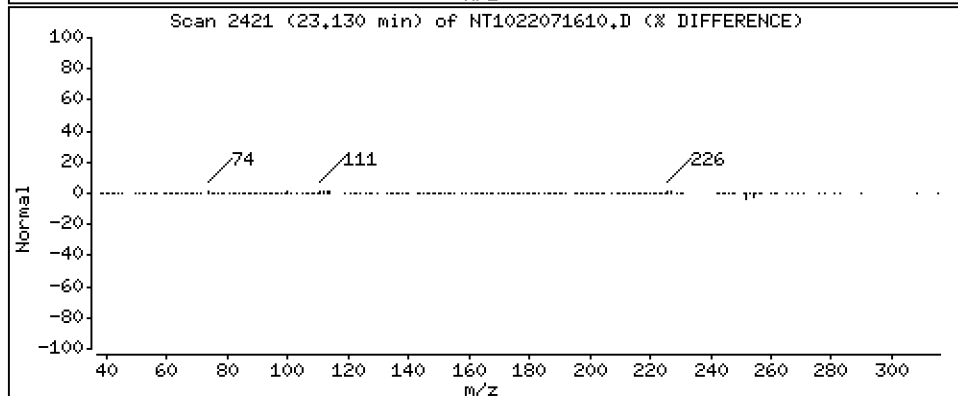
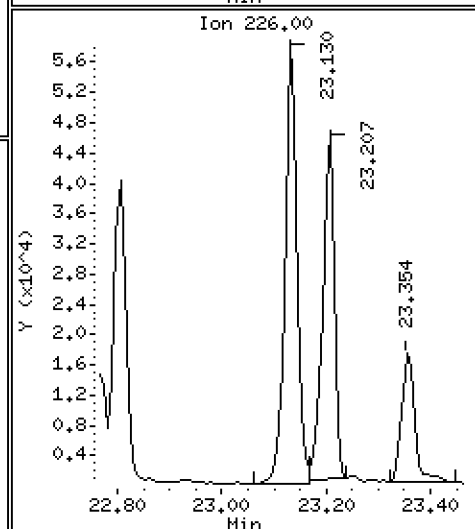
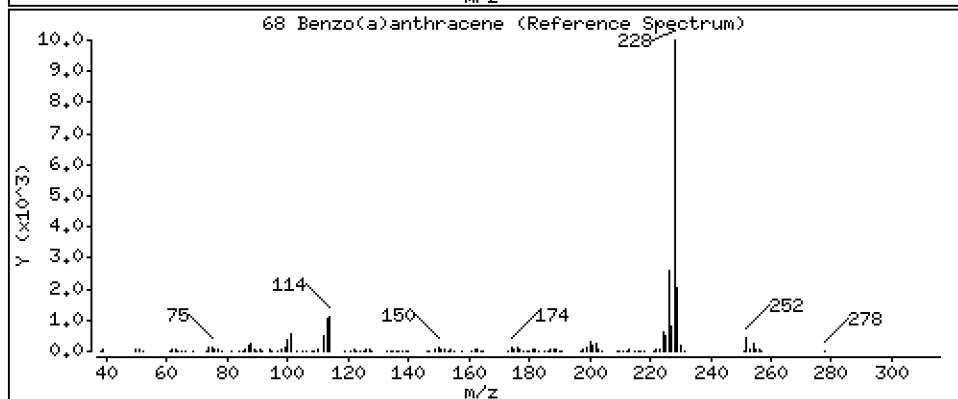
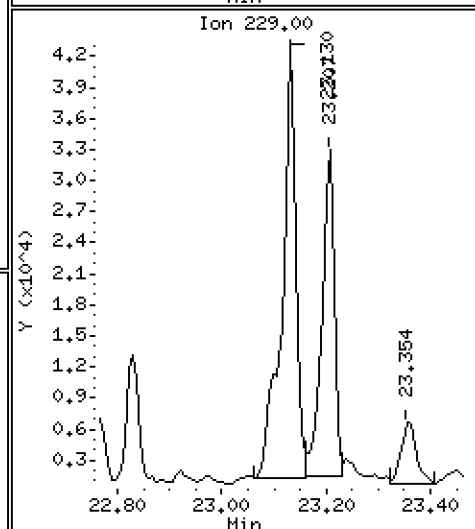
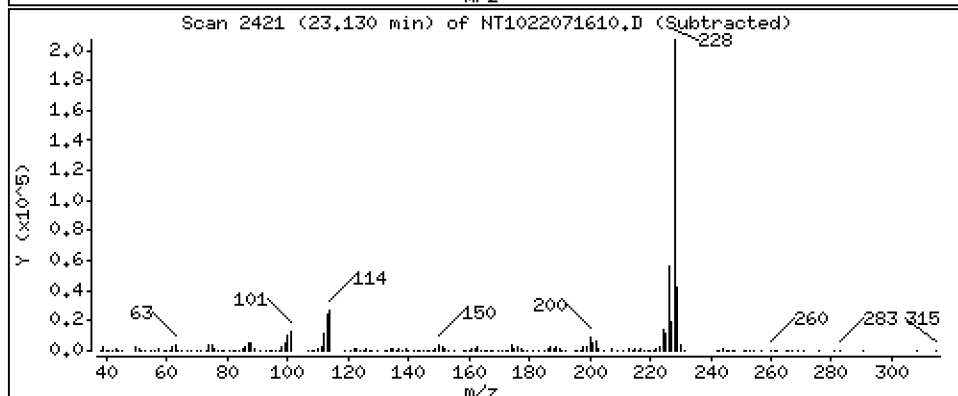
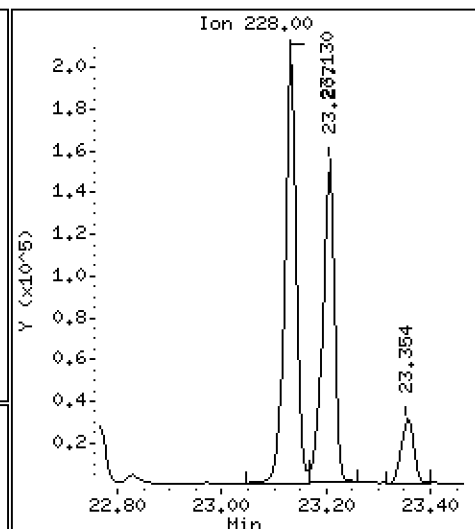
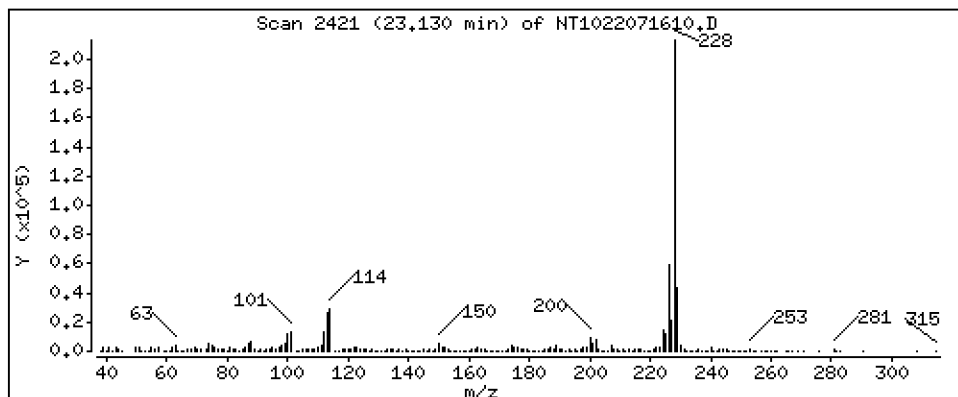
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 139,8 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08RE2,50

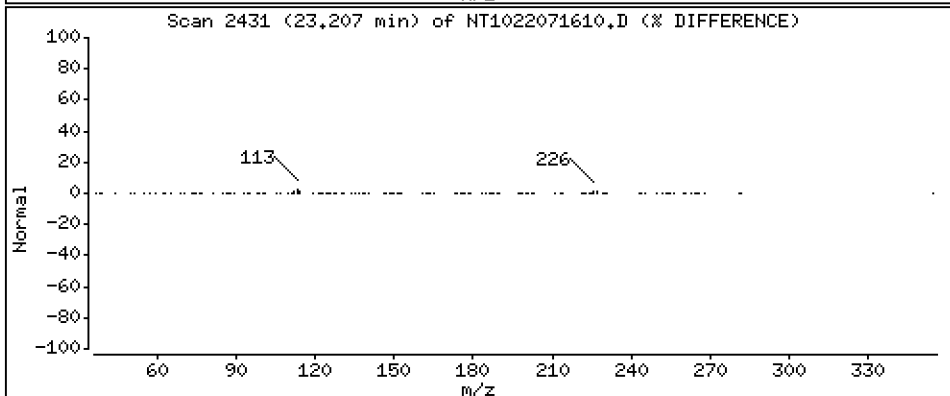
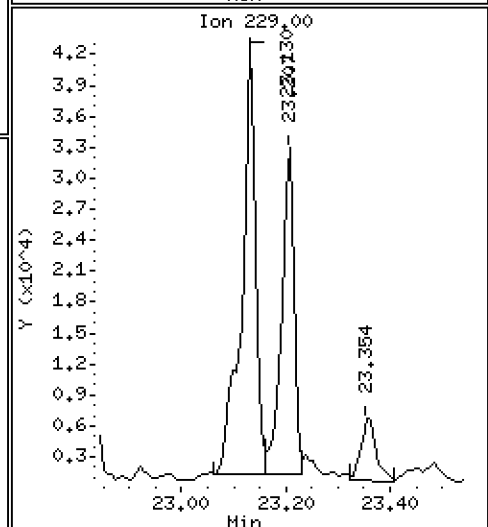
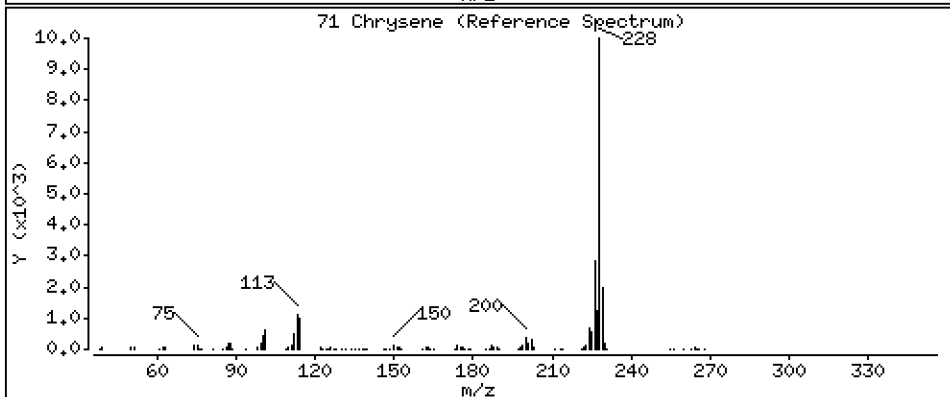
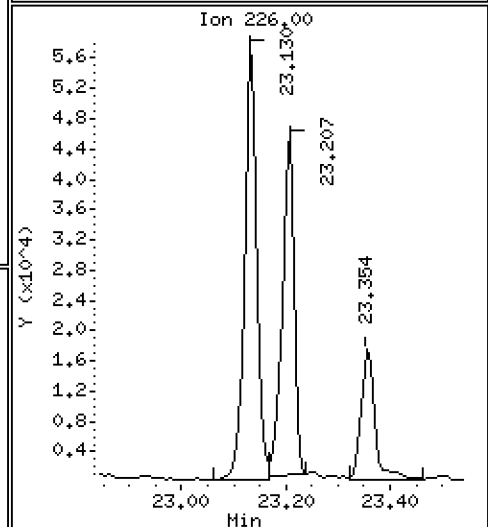
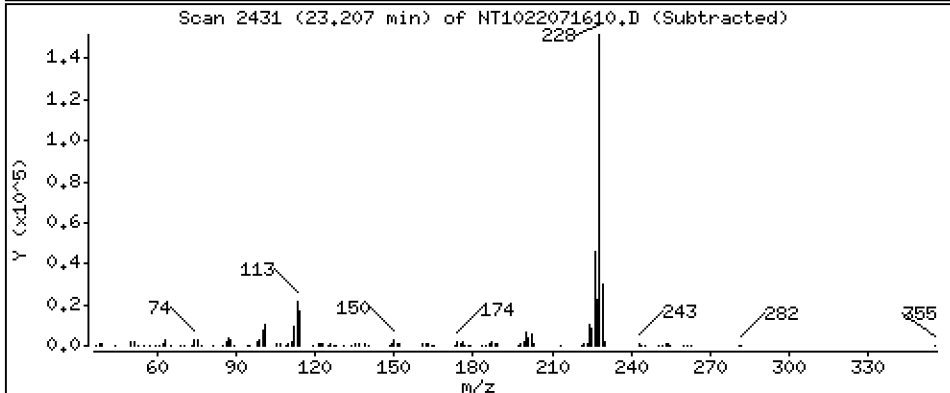
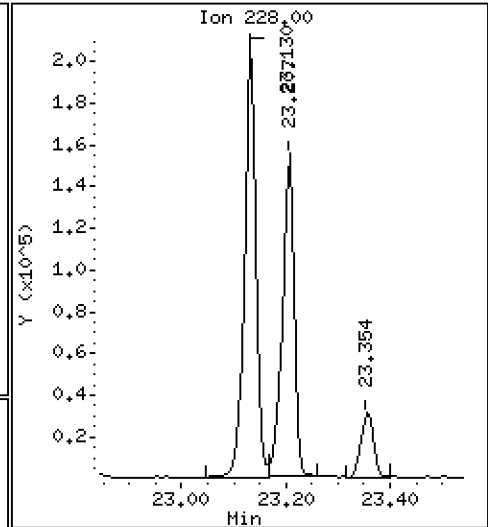
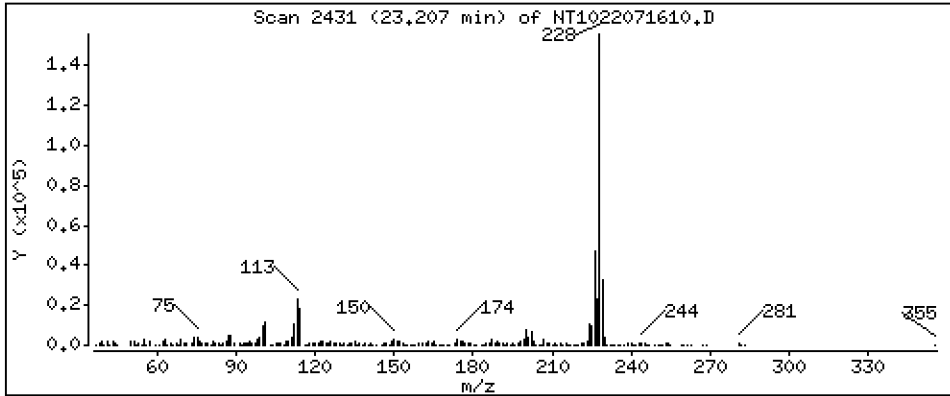
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 154,1 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 2200019-08RE2,50

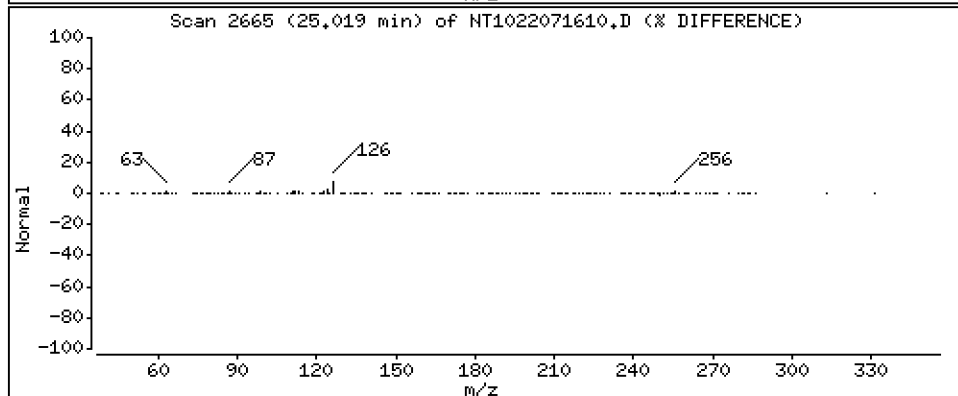
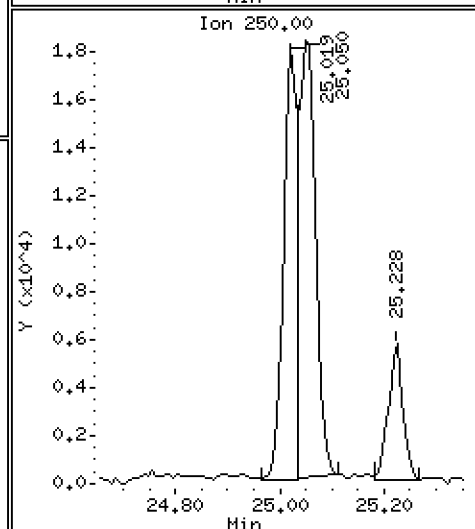
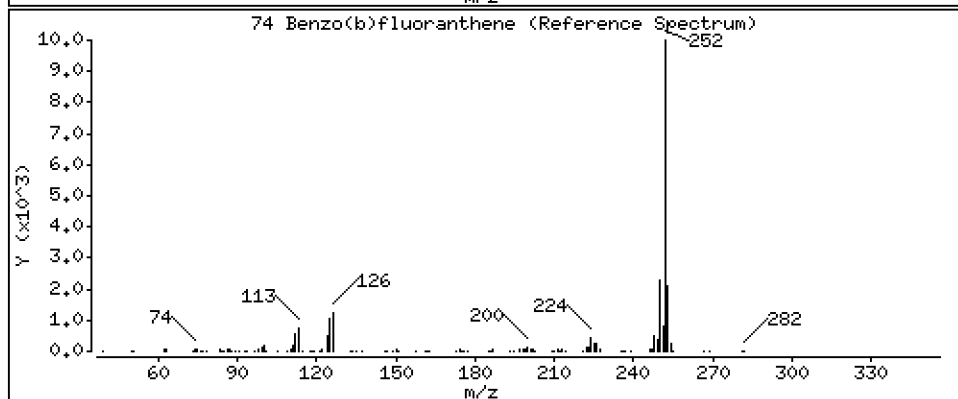
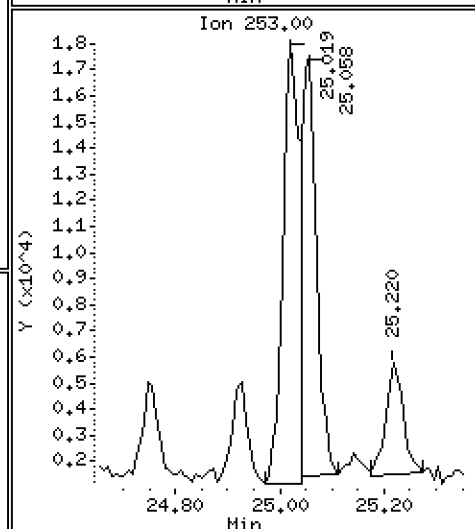
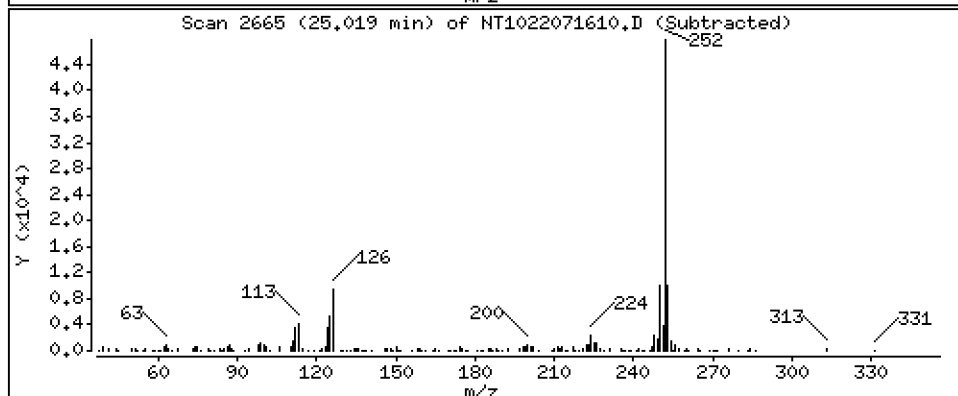
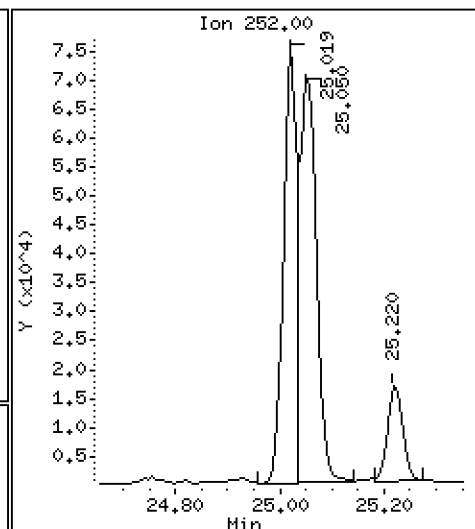
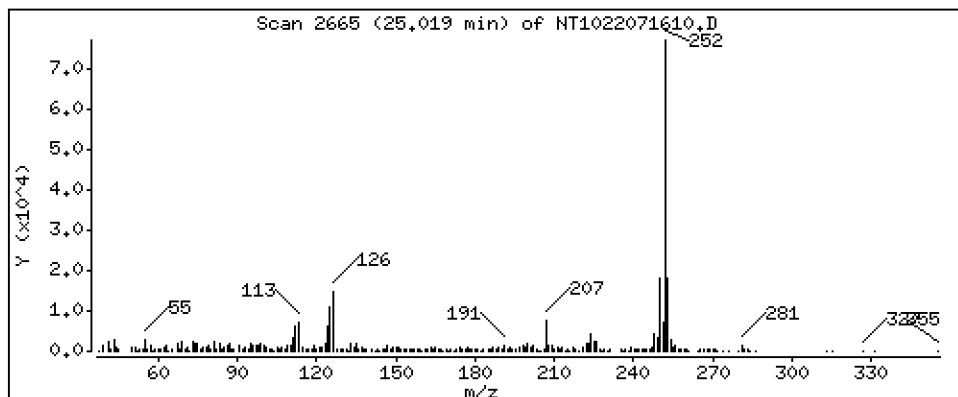
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 80,45 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

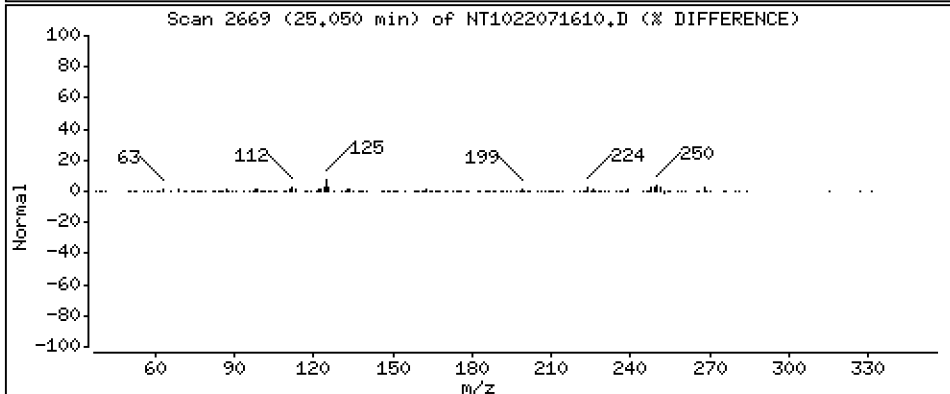
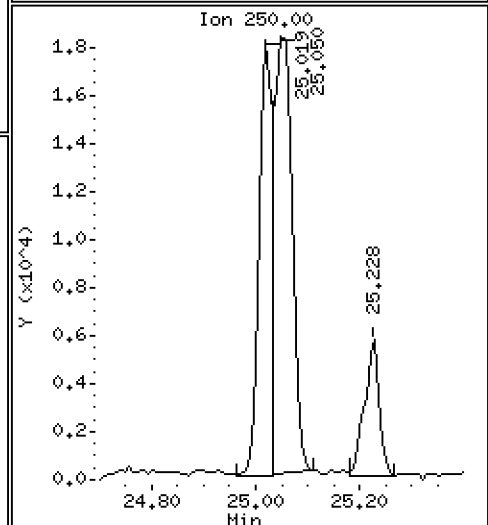
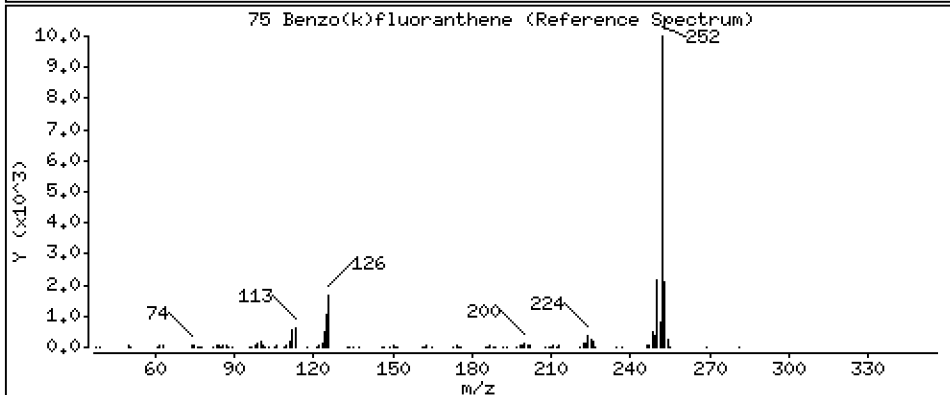
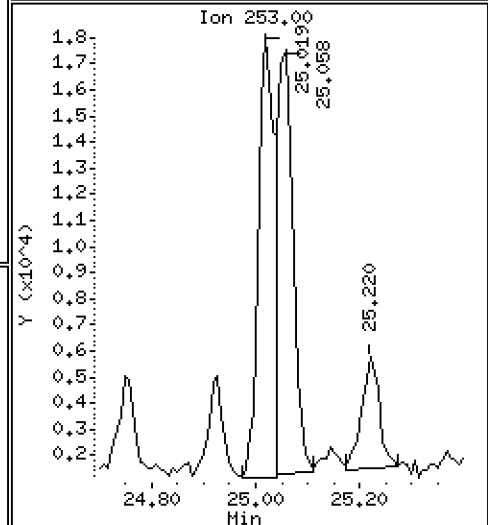
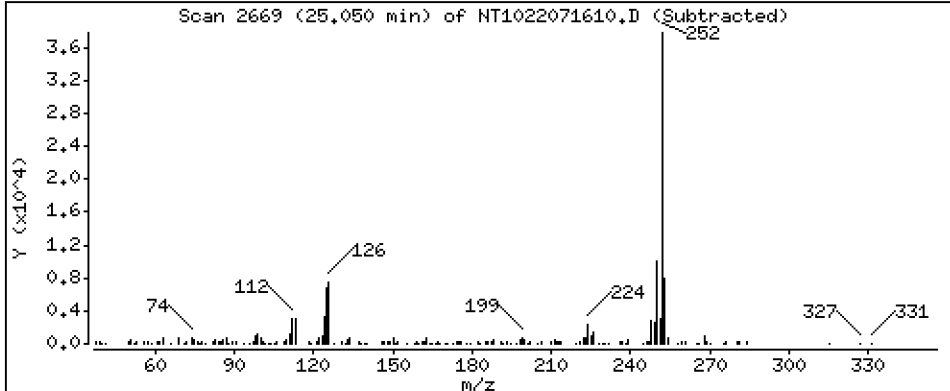
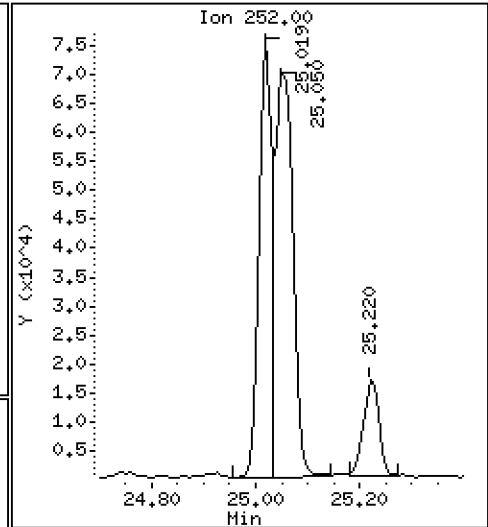
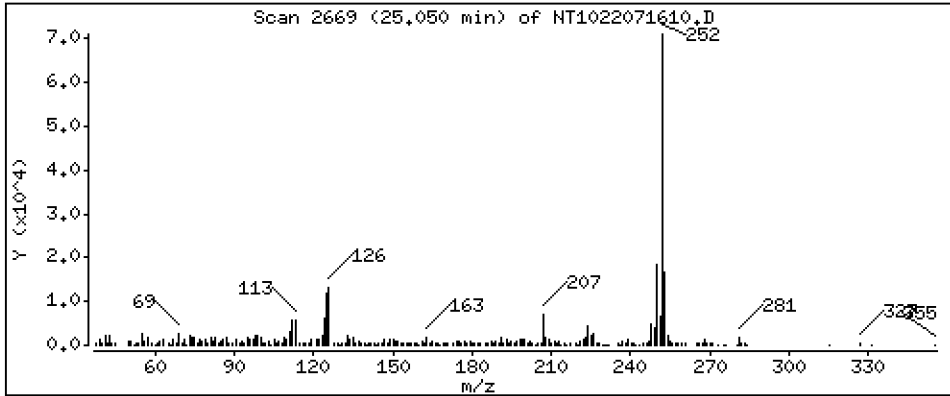
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 103,6 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

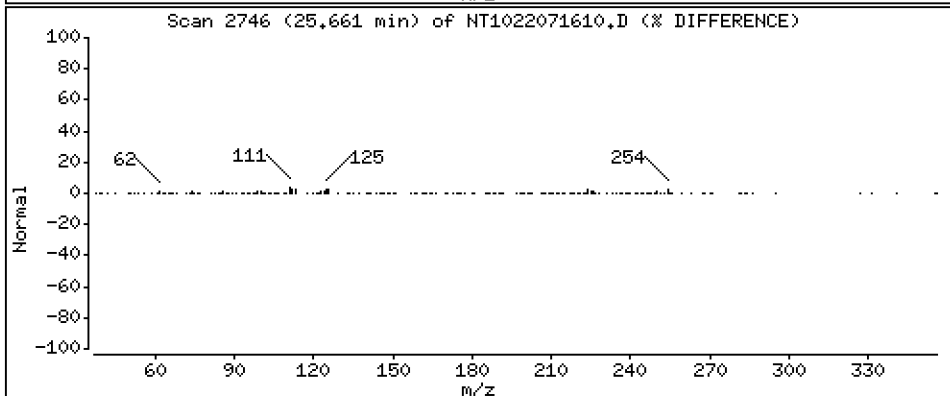
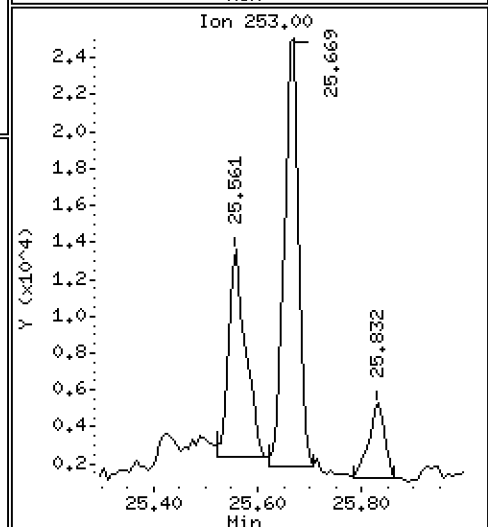
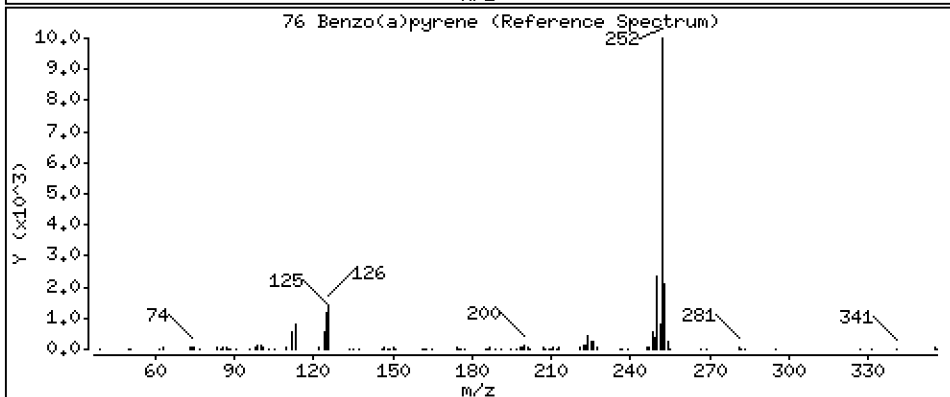
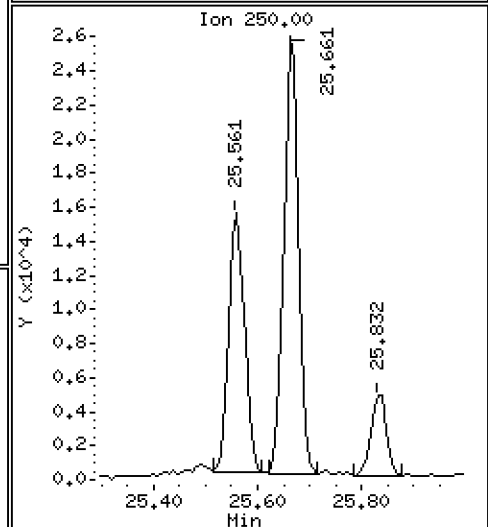
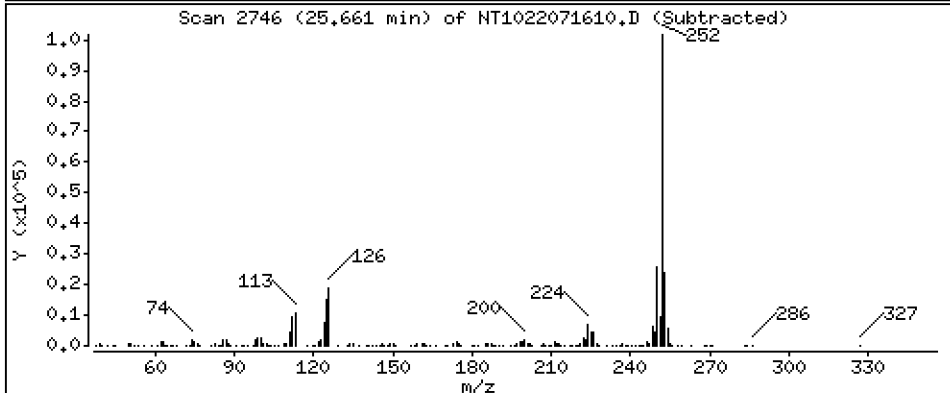
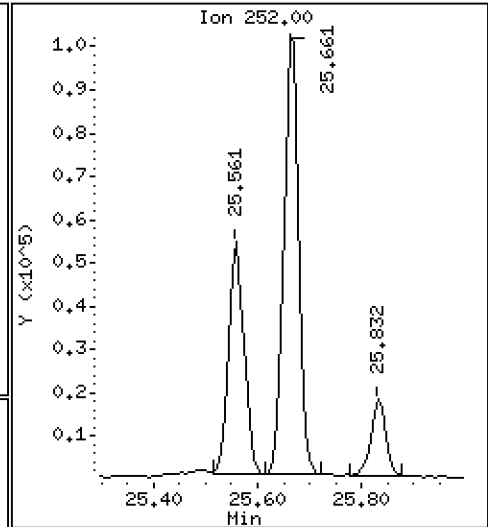
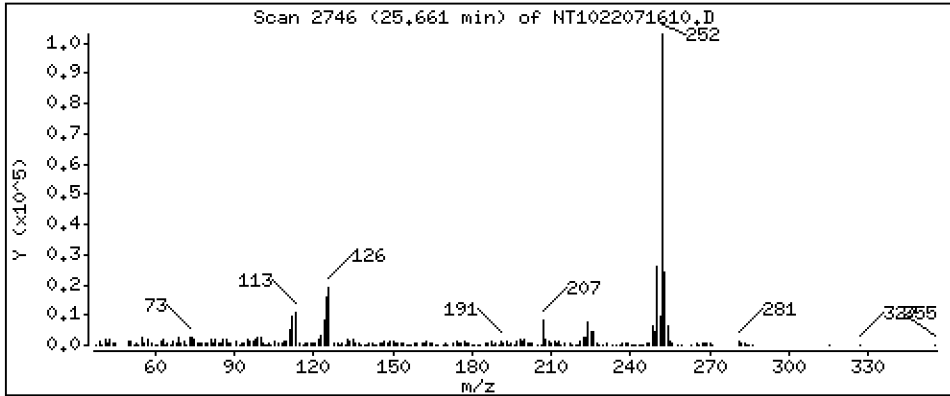
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 139,5 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

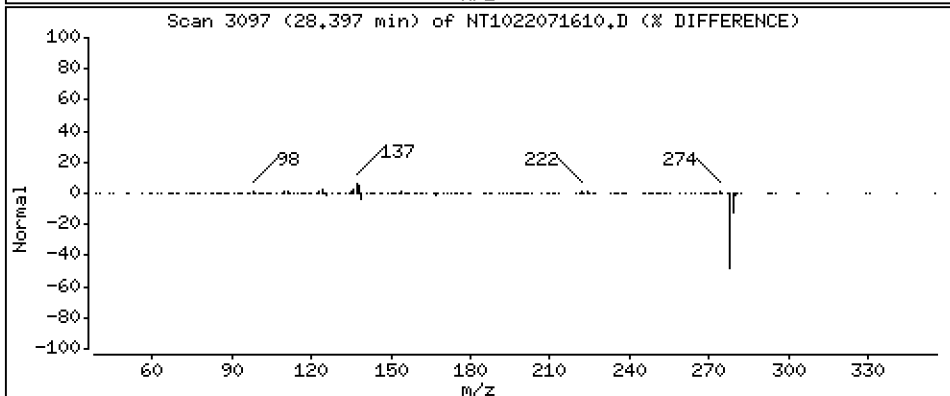
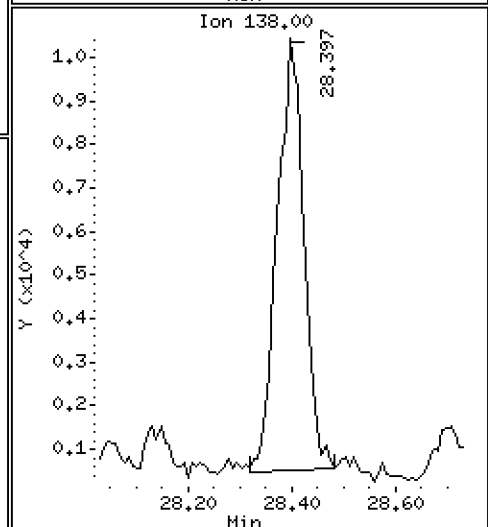
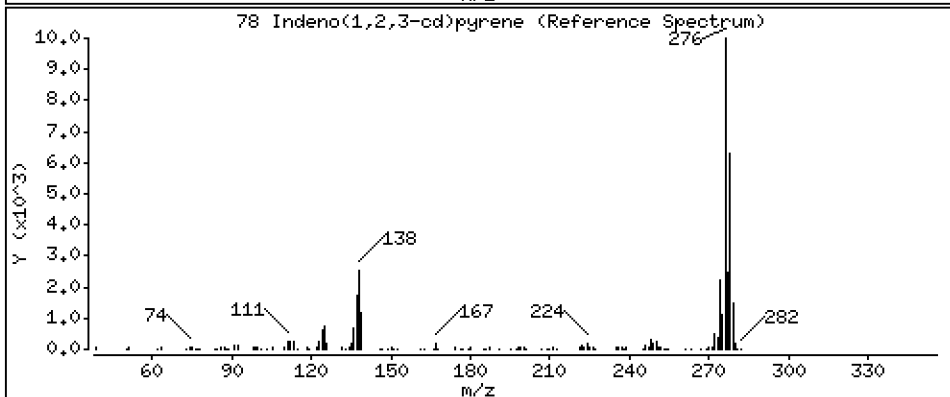
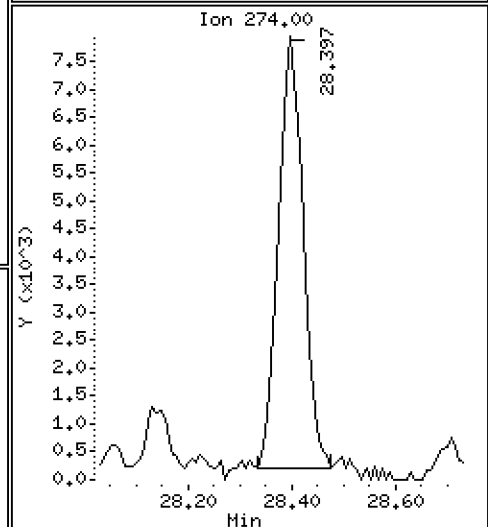
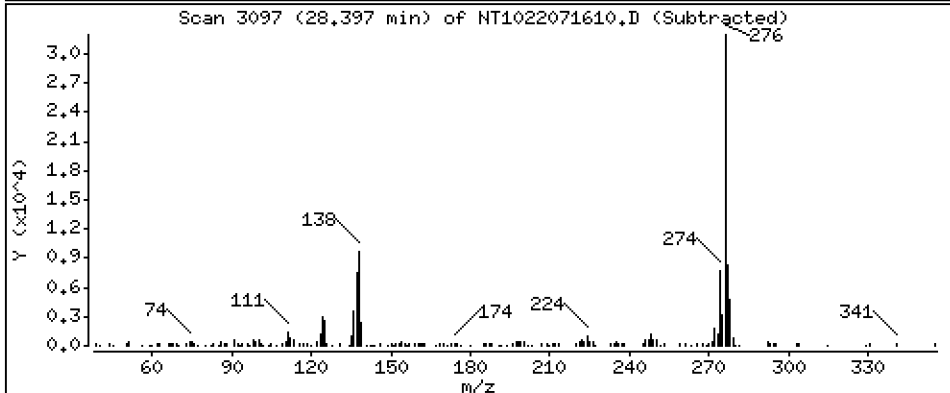
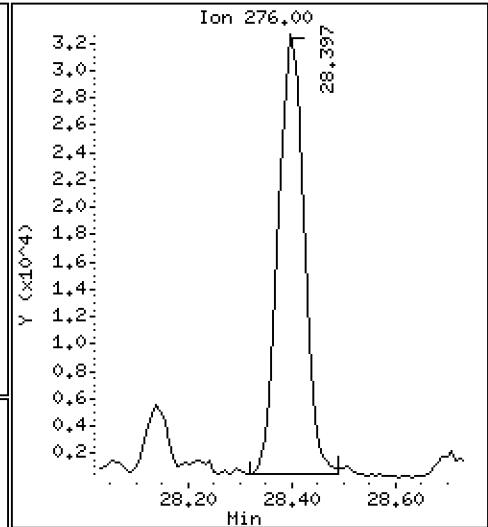
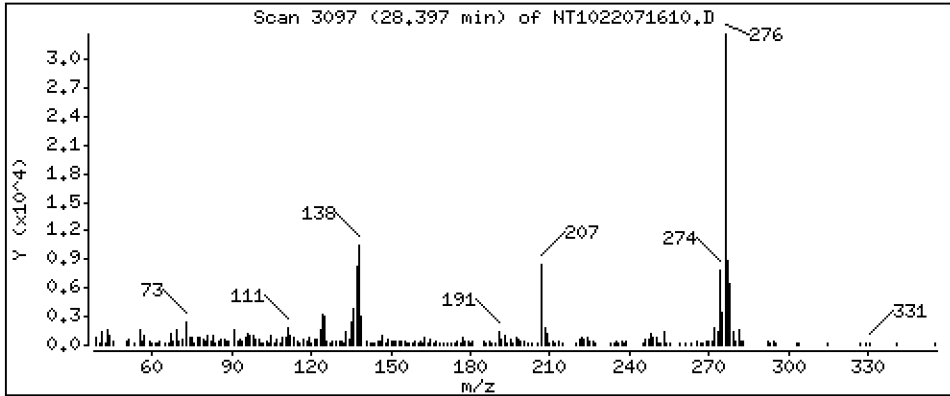
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 73,01 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

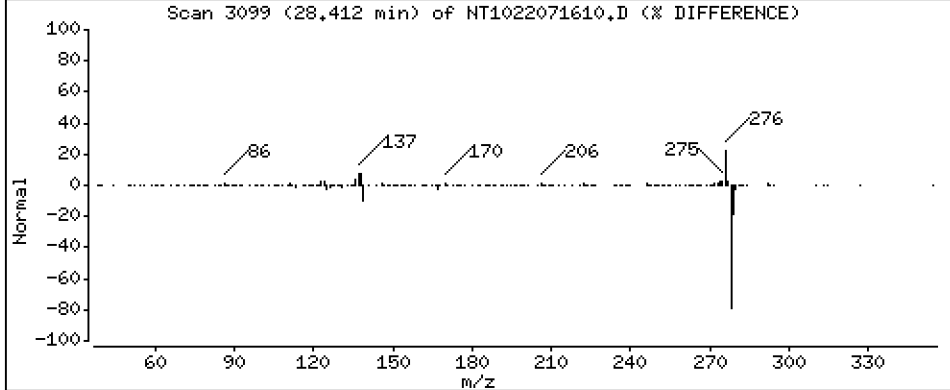
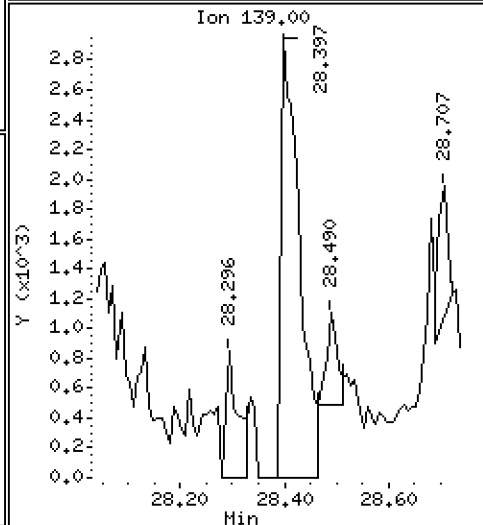
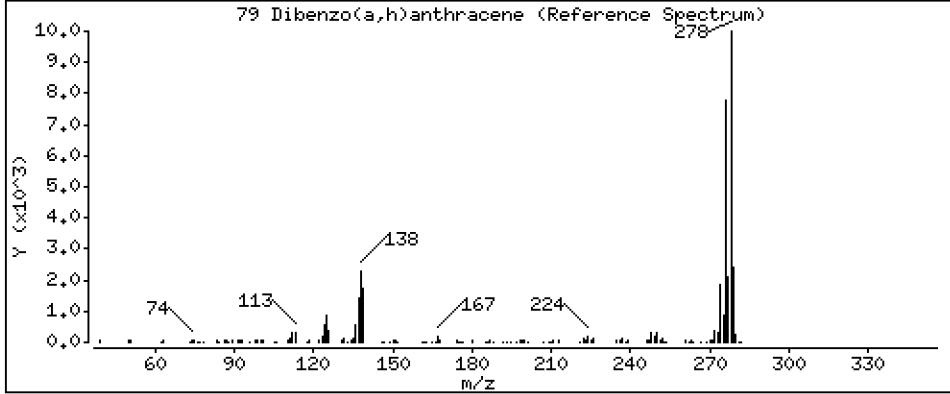
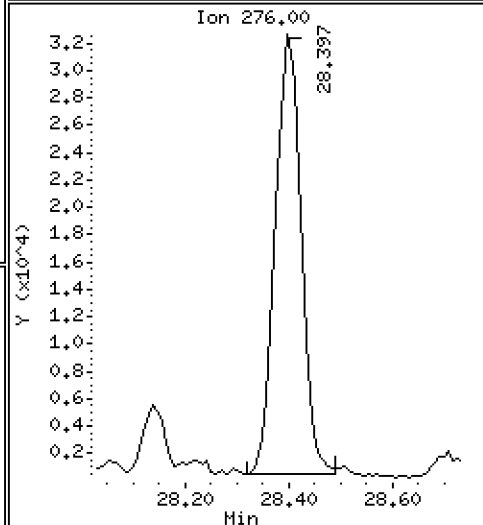
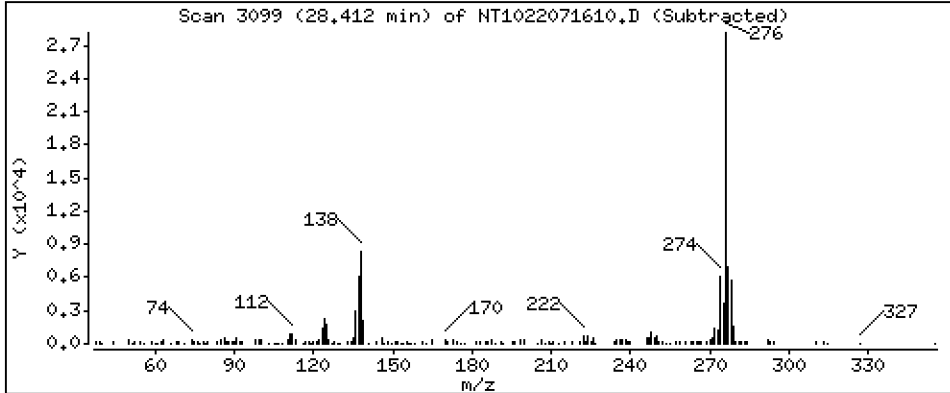
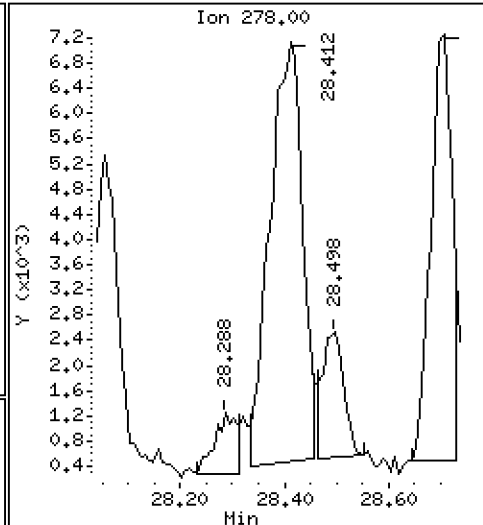
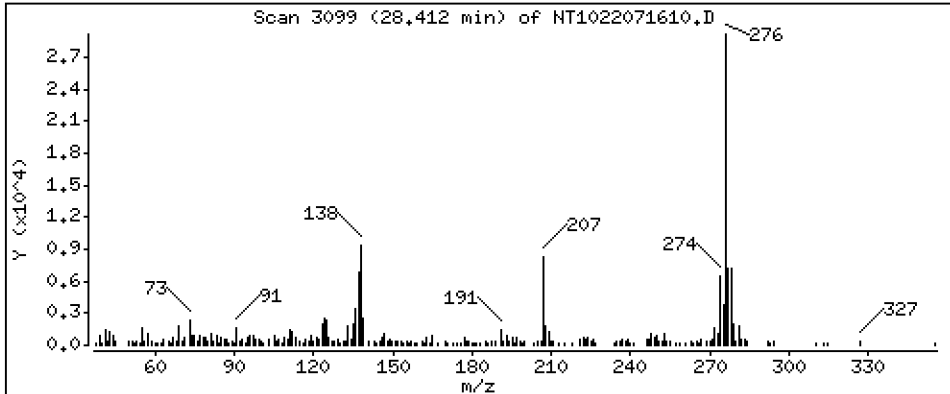
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 25,27 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

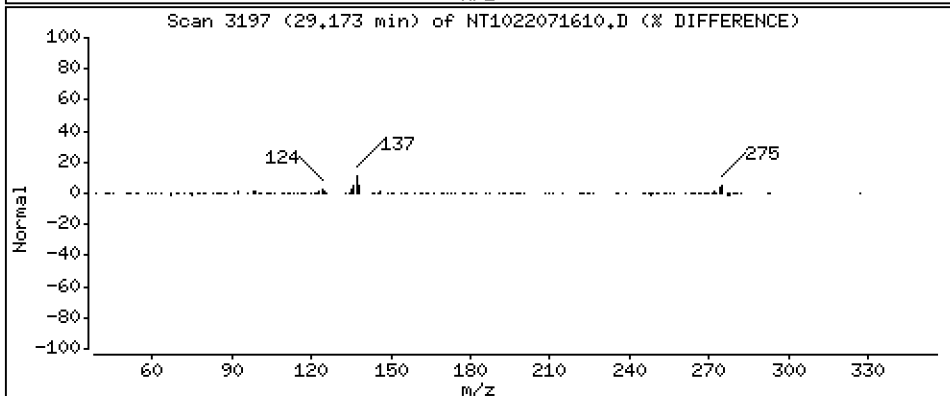
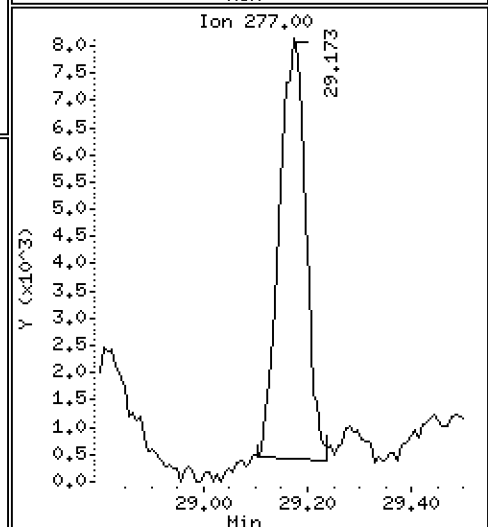
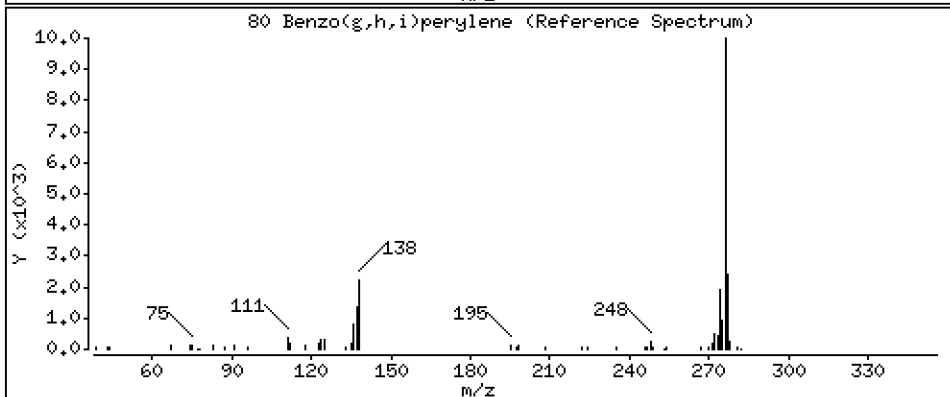
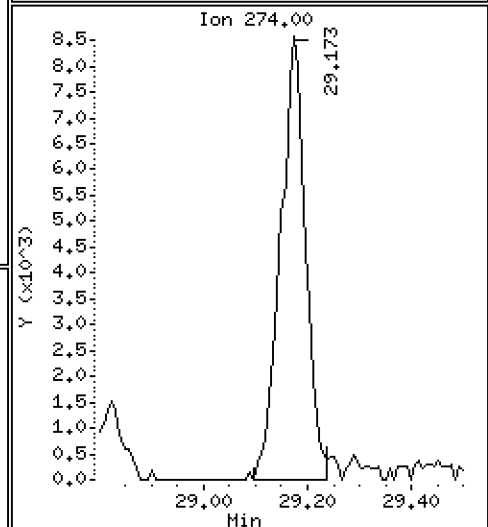
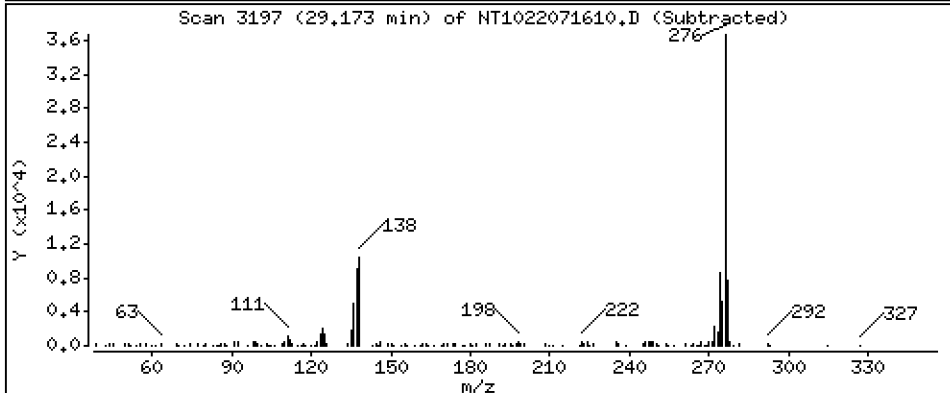
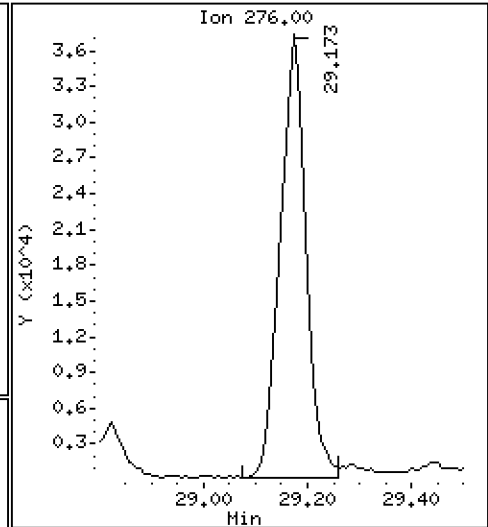
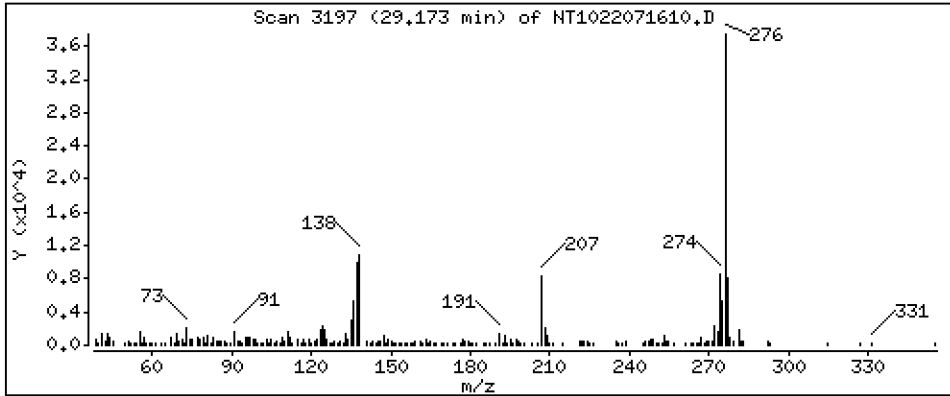
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 105,4 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

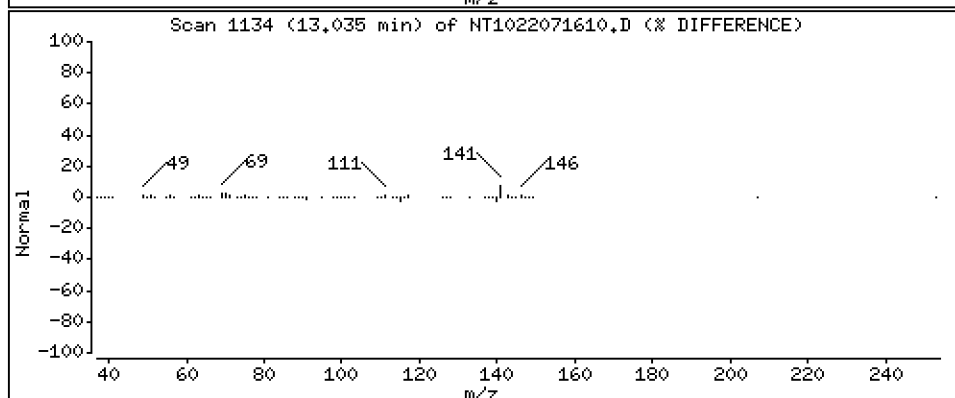
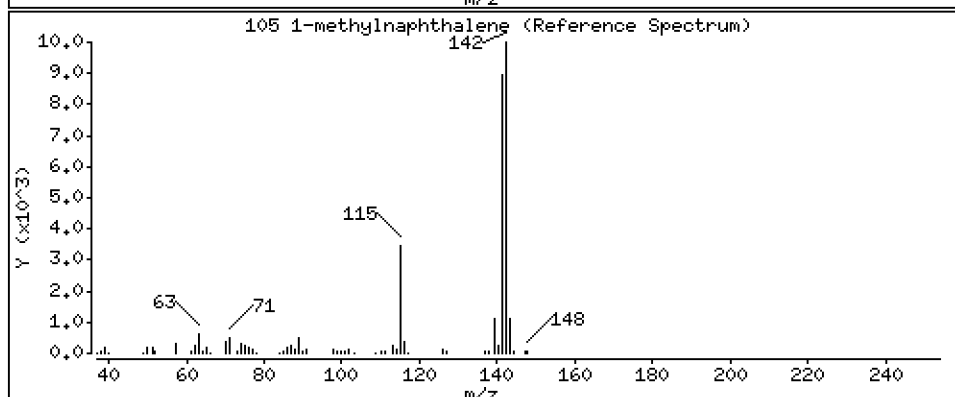
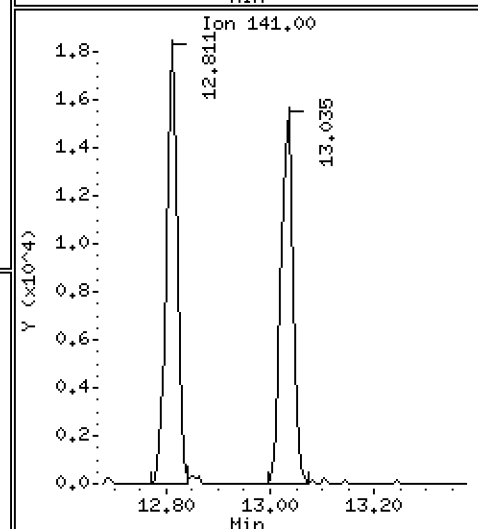
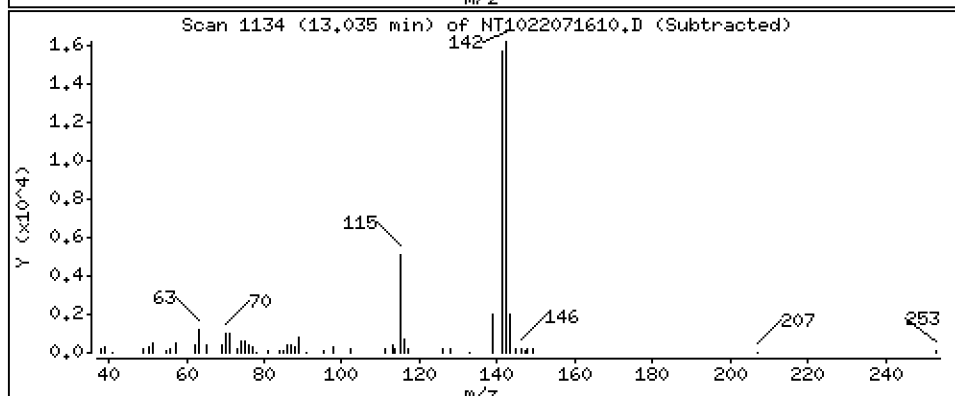
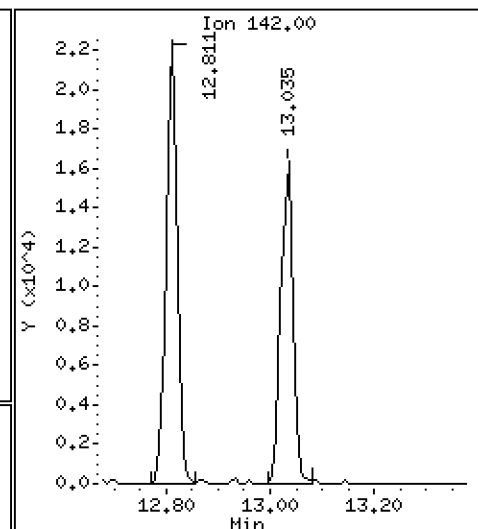
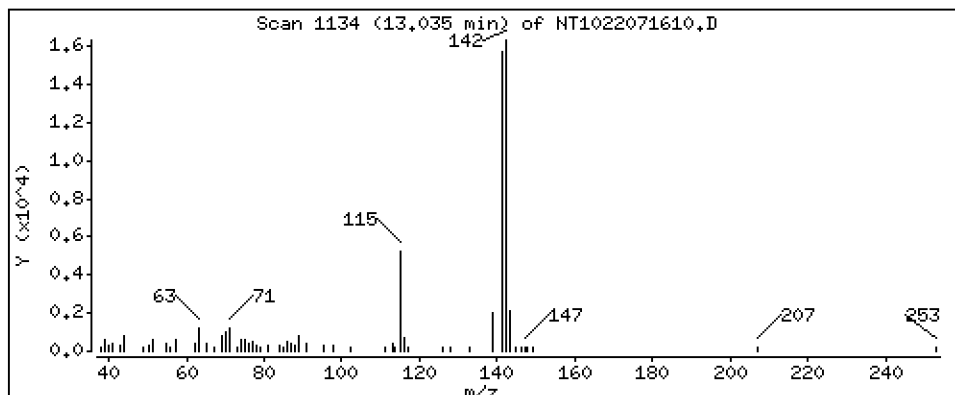
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,155 ug/mL



Date : 16-JUL-2022 16:25

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-08RE2,50

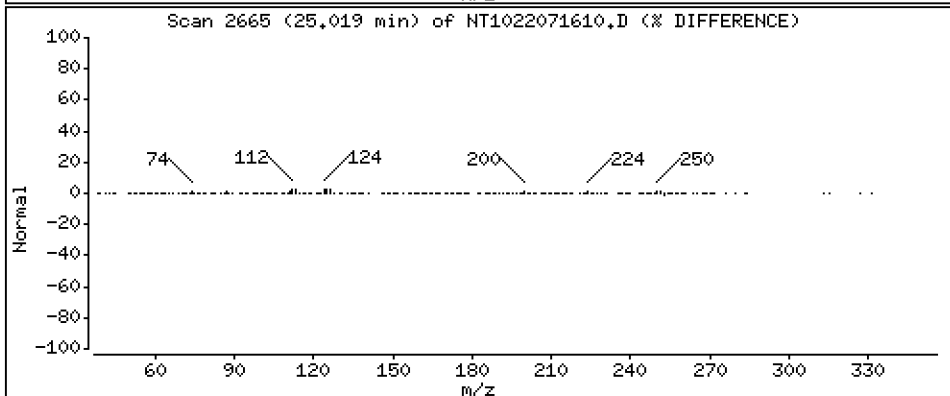
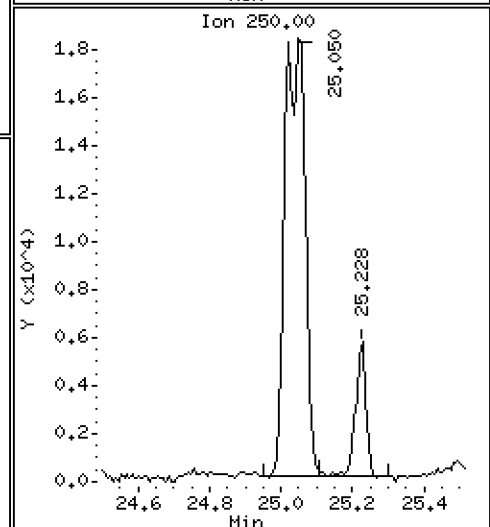
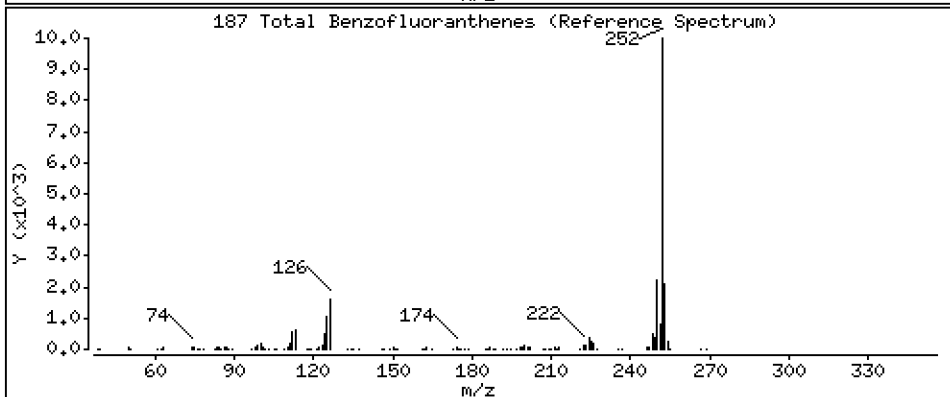
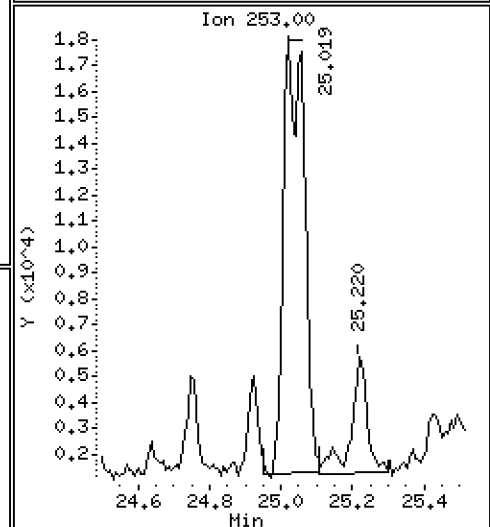
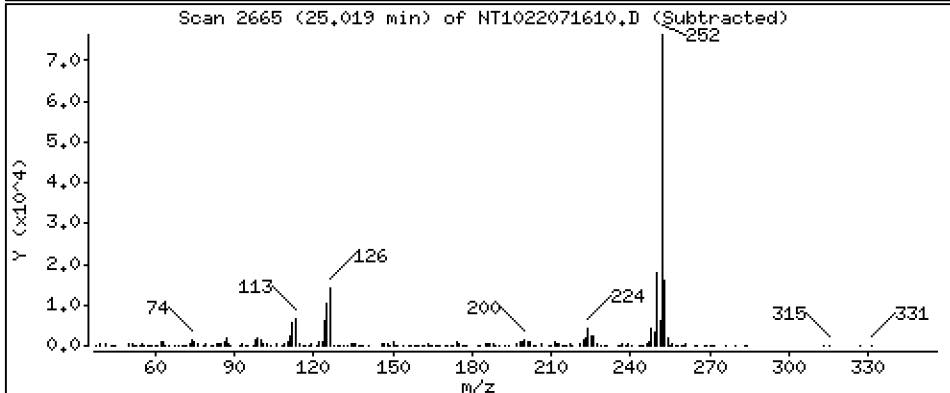
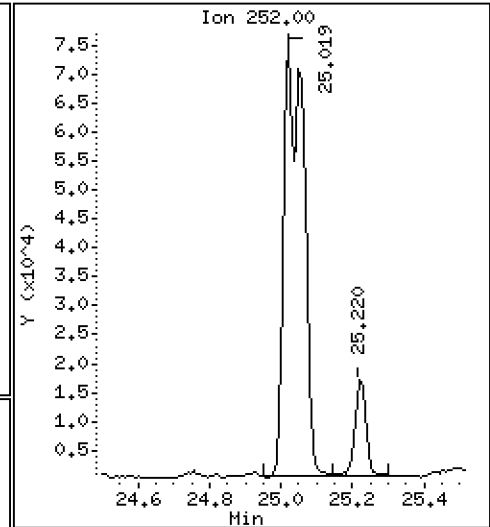
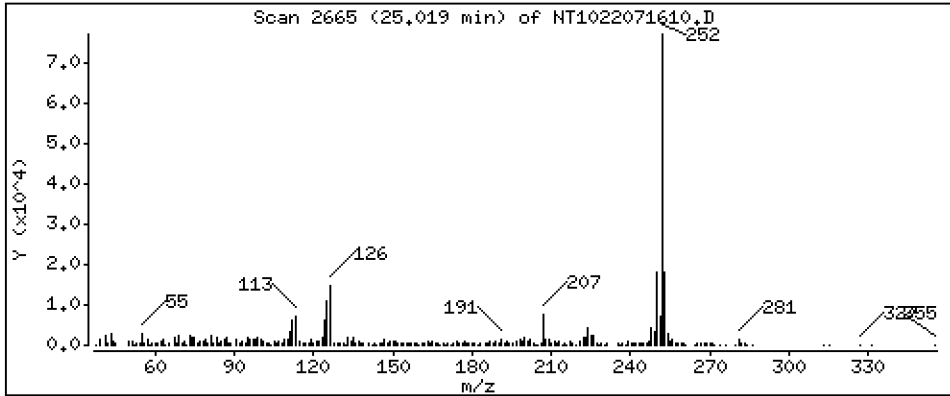
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 177.4 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220716A.b\NT1022071610.D
 Lab Smp Id: 22G0019-08RE2
 Inj Date : 16-JUL-2022 16:25
 Operator : VTS
 Smp Info : 22G0019-08RE2,50
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220716A.b\ABN.m
 Meth Date : 19-Jul-2022 07:18 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 9
 Dil Factor: 50.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
\$ 1 2-Fluorophenol	112		6.705	6.697	(0.754)	13592	0.11213	5.606
\$ 2 Phenol-d5	99		8.297	8.289	(0.933)	16791	0.09335	4.668
3 Phenol	94		8.320	8.312	(0.936)	3216	0.02052	1.026
\$ 5 2-Chlorophenol-d4	132		8.544	8.536	(0.961)	15831	0.12817	6.409
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		8.892	8.892	(1.000)	331968	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.256	9.249	(1.041)	6408	0.08419	4.210 (M)
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		9.986	9.978	(0.878)	8642	0.08157	4.078
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.372	11.372	(1.000)	995723	4.00000	
28 Naphthalene	128		11.411	11.411	(1.003)	220173	0.86398	43.20
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		12.811	12.803	(1.126)	33834	0.13359	6.679
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====	=====	=====	=====	=====	=====	=====	=====
34 2,4,6-Trichlorophenol	196					Compound Not Detected.		
35 2,4,5-Trichlorophenol	196					Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172		13.592	13.592	(0.907)	23228	0.07834	3.917
37 2-Chloronaphthalene	162					Compound Not Detected.		
38 2-Nitroaniline	65					Compound Not Detected.		
39 Dimethylphthalate	163					Compound Not Detected.		
40 Acenaphthylene	152		14.668	14.668	(0.979)	29923	0.07812	3.906
41 2,6-Dinitrotoluene	165					Compound Not Detected.		
* 42 Acenaphthene-d10	164		14.985	14.985	(1.000)	655232	4.00000	
43 3-Nitroaniline	138					Compound Not Detected.		
44 Acenaphthene	153		15.055	15.047	(1.005)	131787	0.69158	34.58
45 2,4-Dinitrophenol	184					Compound Not Detected.		
46 Dibenzofuran	168		15.387	15.380	(1.027)	53459	0.17652	8.826
47 4-Nitrophenol	109					Compound Not Detected.		
48 2,4-Dinitrotoluene	165					Compound Not Detected.		
50 Diethylphthalate	149					Compound Not Detected.		
49 Fluorene	166		16.099	16.091	(1.074)	129598	0.35814	17.91
51 4-Chlorophenyl-phenylether	204					Compound Not Detected.		
52 4-Nitroaniline	138					Compound Not Detected.		
53 4,6-Dinitro-2-methylphenol	198					Compound Not Detected.		
54 N-Nitrosodiphenylamine	169					Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330		16.646	16.639	(1.111)	801	0.02713	1.356
56 4-Bromophenyl-phenylether	248					Compound Not Detected.		
57 Hexachlorobenzene	284					Compound Not Detected.		
58 Pentachlorophenol	266					Compound Not Detected.		
* 59 Phenanthrene-d10	188		18.037	18.029	(1.000)	710240	4.00000	
60 Phenanthrene	178		18.091	18.083	(1.003)	1006487	5.39400	269.7
61 Anthracene	178		18.184	18.176	(1.008)	329639	1.65777	82.89
62 Carbazole	167		18.524	18.517	(1.027)	33645	0.18341	9.170
63 Di-n-butylphthalate	149					Compound Not Detected.		
64 Fluoranthene	202		20.505	20.497	(0.885)	1551032	7.62984	381.5
65 Pyrene	202		20.938	20.923	(0.904)	1588255	8.76325	438.2
\$ 66 Terphenyl-d14	244		21.232	21.225	(0.917)	15126	0.15942	7.971
67 Butylbenzylphthalate	149					Compound Not Detected.		
68 Benzo(a)anthracene	228		23.129	23.114	(0.999)	322105	2.79583	139.8
* 69 Chrysene-d12	240		23.160	23.145	(1.000)	271884	4.00000	
70 3,3'-Dichlorobenzidine	252					Compound Not Detected.		
71 Chrysene	228		23.207	23.191	(1.002)	242485	3.08170	154.1
72 bis(2-Ethylhexyl)phthalate	149					Compound Not Detected.		
* 134 Di-n-octylphthalate-d4	153		24.236	24.221	(1.000)	458687	4.00000	
73 Di-n-octylphthalate	149					Compound Not Detected.		
74 Benzo(b)fluoranthene	252		25.018	25.003	(0.971)	140228	1.60894	80.45
75 Benzo(k)fluoranthene	252		25.049	25.049	(0.972)	173726	2.07292	103.6
76 Benzo(a)pyrene	252		25.661	25.646	(0.995)	199036	2.79027	139.5
* 77 Perylene-d12	264		25.777	25.754	(1.000)	192446	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.396	28.381	(1.102)	111215	1.46024	73.01
79 Dibenzo(a,h)anthracene	278		28.412	28.388	(1.102)	29468	0.50541	25.27
80 Benzo(g,h,i)perylene	276		29.173	29.150	(1.132)	128280	2.10704	105.4
90 N-Nitrosodimethylamine	74					Compound Not Detected.		
91 Aniline	93					Compound Not Detected.		
93 Benzidine	184					Compound Not Detected.		
103 Pyridine	79					Compound Not Detected.		
105 1-methylnaphthalene	142		13.035	13.027	(1.146)	25653	0.10310	5.155
111 Azobenzene (1,2-DP-Hydrazine)	77					Compound Not Detected.		

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.018	25.003	(0.971)	288292	3.54764	177.4	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 16-JUL-2022
 Lab File ID: NT1022071610.D Calibration Time: 13:33
 Lab Smp Id: 22G0019-08RE2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220716A.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	202557	101279	405114	331968	63.89
27 Naphthalene-d8	703953	351977	1407906	995723	41.45
42 Acenaphthene-d10	510125	255063	1020250	655232	28.45
59 Phenanthrene-d10	646092	323046	1292184	710240	9.93
69 Chrysene-d12	349304	174652	698608	271884	-22.16
134 Di-n-octylphthala	599143	299572	1198286	458687	-23.44
77 Perylene-d12	184274	92137	368548	192446	4.43

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.89	8.39	9.39	8.89	-0.00
27 Naphthalene-d8	11.37	10.87	11.87	11.37	-0.00
42 Acenaphthene-d10	14.99	14.49	15.49	14.99	-0.00
59 Phenanthrene-d10	18.03	17.53	18.53	18.04	0.04
69 Chrysene-d12	23.15	22.65	23.65	23.16	0.07
134 Di-n-octylphthala	24.22	23.72	24.72	24.24	0.06
77 Perylene-d12	25.75	25.25	26.25	25.78	0.09

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

REVIEW SUMMARY FOR FILE - NT1022071610.D

Lab ID: 22G0019-08RE2
nt10.i, ABN.m, 16-JUL-2022 16:25

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

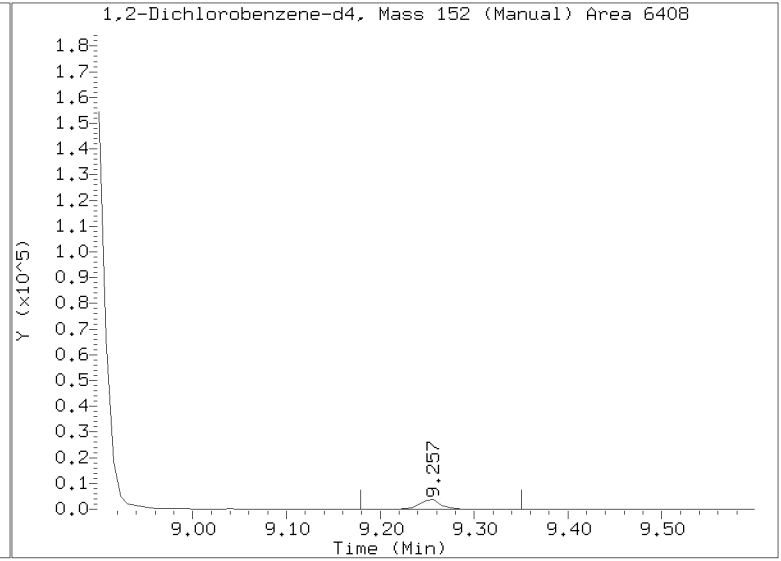
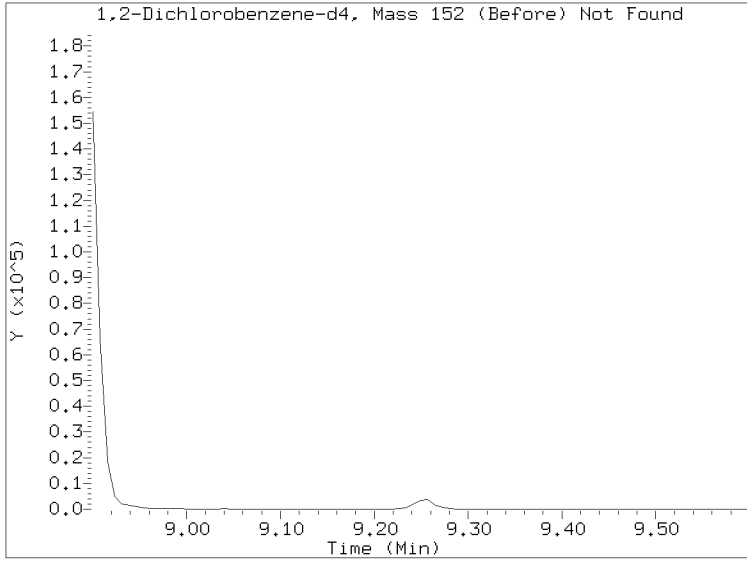
RRT check based on Ccal File: NT1022071608.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220716A.b/NT1022071610.D
Injection Date: 16-JUL-2022 16:25
Lab ID:22G0019-08RE2 Client ID:
Report Date: 07/19/2022 10:08





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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-09 A

SDG: 22G0019

Sampled: 06/29/22 11:35

Prepared: 07/07/22 10:01

File ID: NT1022071415.D

% Solids: 78.20

Preparation: EPA 3546 (Microwave)

Analyzed: 07/14/22 22:48

Batch: BKG0069

Sequence: SKG0139

Initial/Final: 12.79 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	1	6290	E	4.2	20.0
91-57-6	2-Methylnaphthalene	1	48900	E	4.5	20.0
83-32-9	Acenaphthene	1	4870	E	5.2	20.0
87-86-5	Pentachlorophenol	1	31.2	U	31.2	100
85-01-8	Phenanthrene	1	17300	E	8.7	20.0
206-44-0	Fluoranthene	1	814	Q	6.1	20.0
56-55-3	Benzo(a)anthracene	1	534		6.0	20.0
218-01-9	Chrysene	1	788		6.1	20.0
205-99-2	Benzo(b)fluoranthene	1	334		7.0	20.0
207-08-9	Benzo(k)fluoranthene	1	429		5.0	20.0
50-32-8	Benzo(a)pyrene	1	539		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	195		14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	68.9		17.2	20.0
90-12-0	1-Methylnaphthalene	1	27500	E	5.3	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.87	453	60.4	27 - 120	
Phenol-d5	749.87	343	45.8	29 - 120	
2-Chlorophenol-d4	749.87	596	79.4	31 - 120	
1,2-Dichlorobenzene-d4	499.91	395	79.0	32 - 120	
Nitrobenzene-d5	499.91	497	99.5	30 - 120	
2-Fluorobiphenyl	499.91	349	69.8	35 - 120	
2,4,6-Tribromophenol	749.87	387	51.6	24 - 134	
p-Terphenyl-d14	499.91	309	61.8	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220714.6\NT1022071415.D

Date: 14-JUL-2022 22:48

Client ID:

Sample Info: 2200019-09

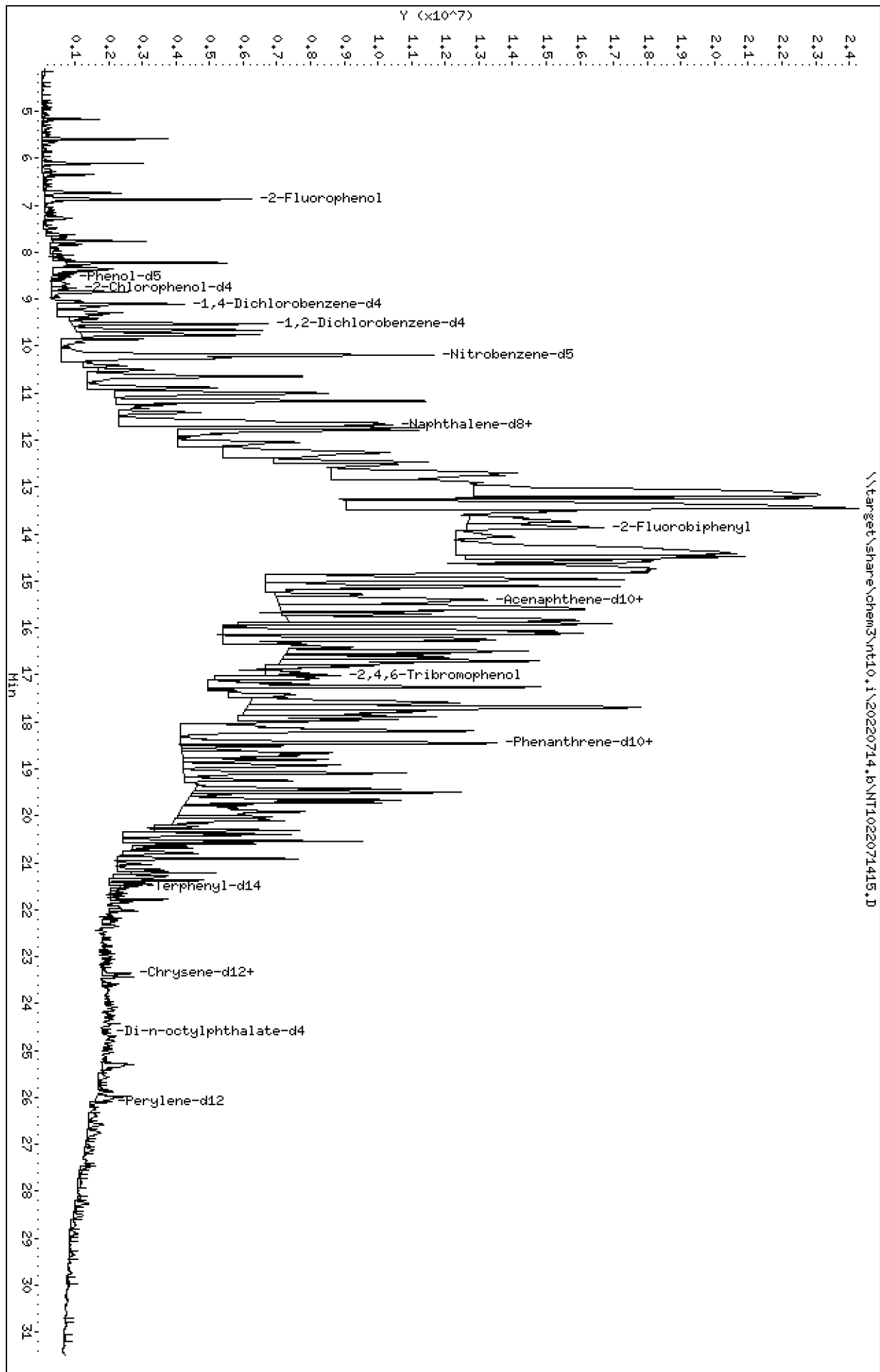
Page 1

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



Date : 14-JUL-2022 22:48

Client ID:

Instrument: nt10.i

Sample Info: 2200019-09

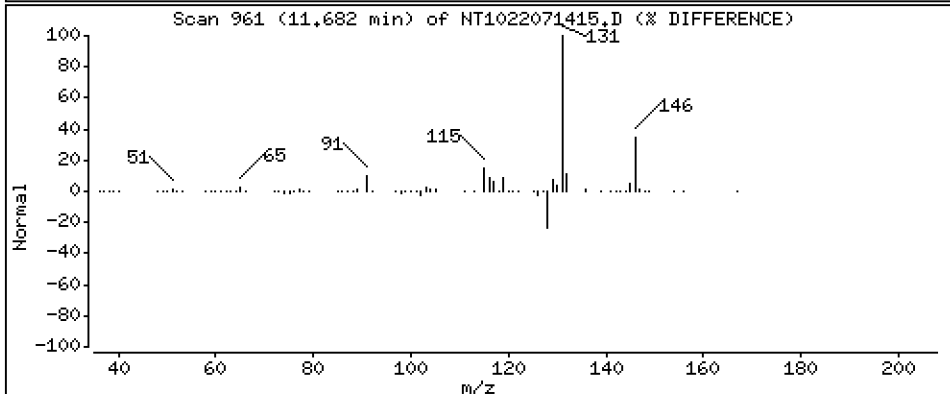
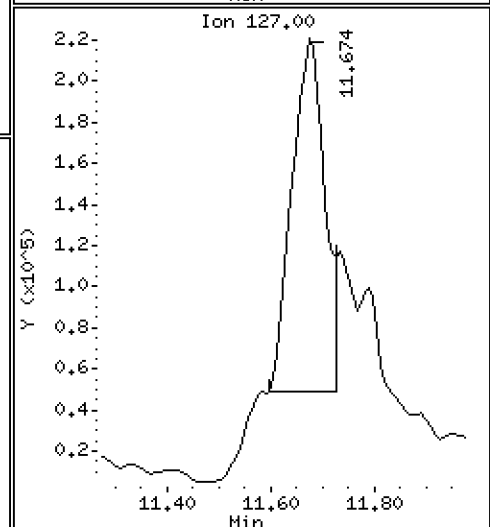
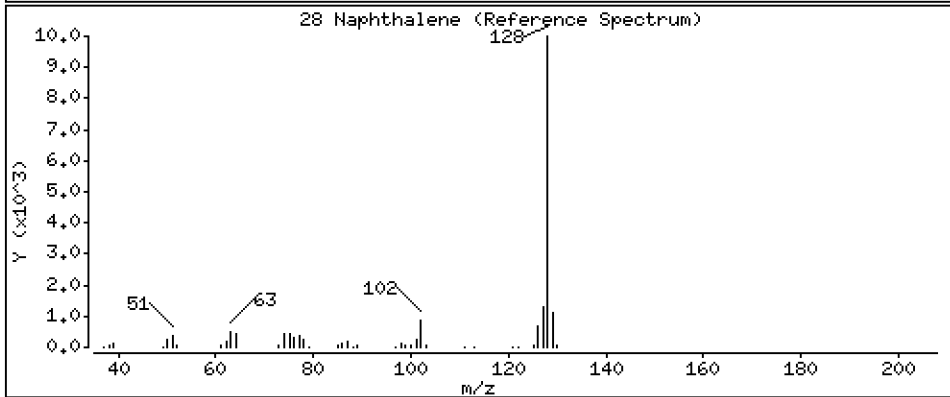
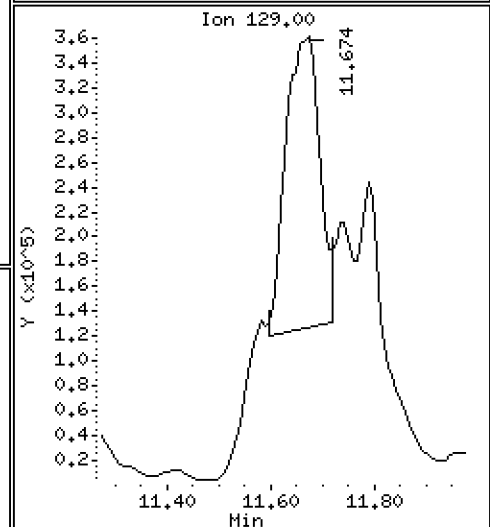
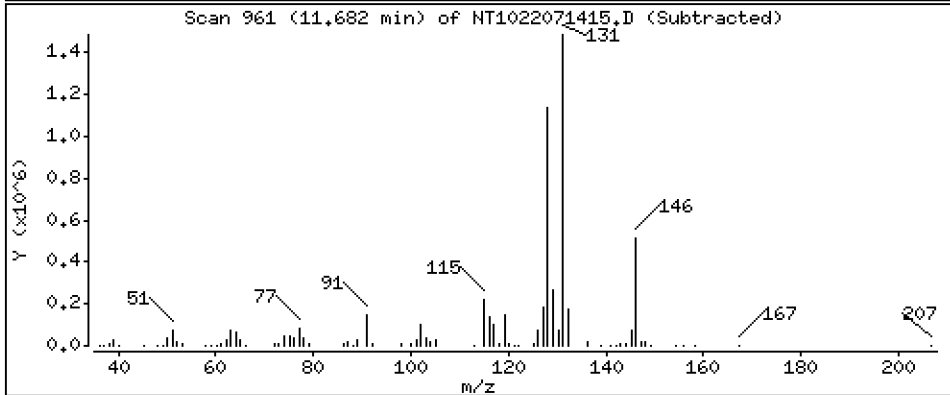
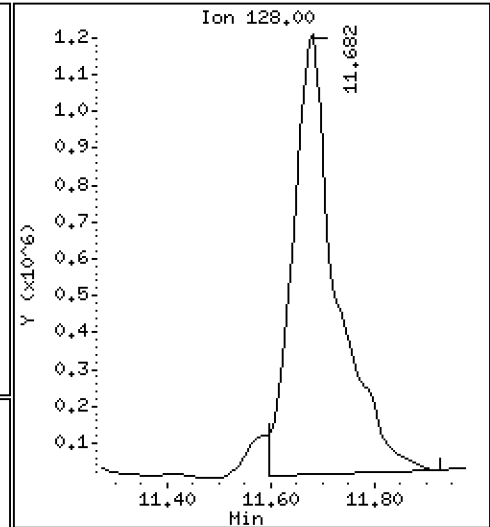
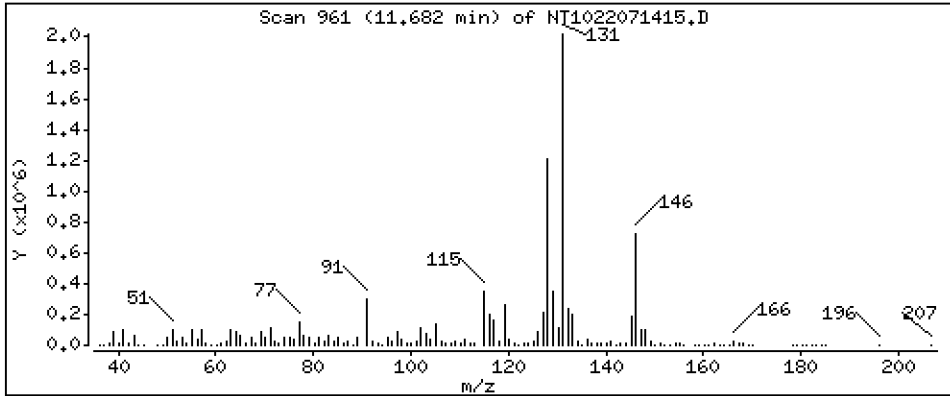
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 62.94 ug/mL



Date : 14-JUL-2022 22:48

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

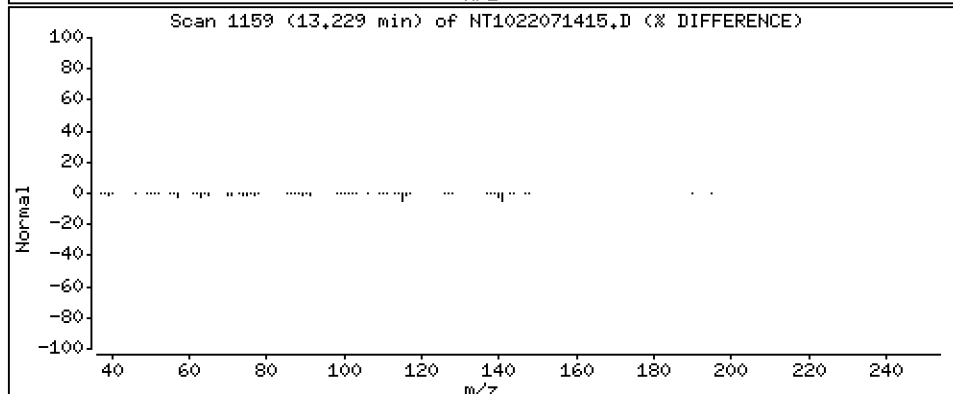
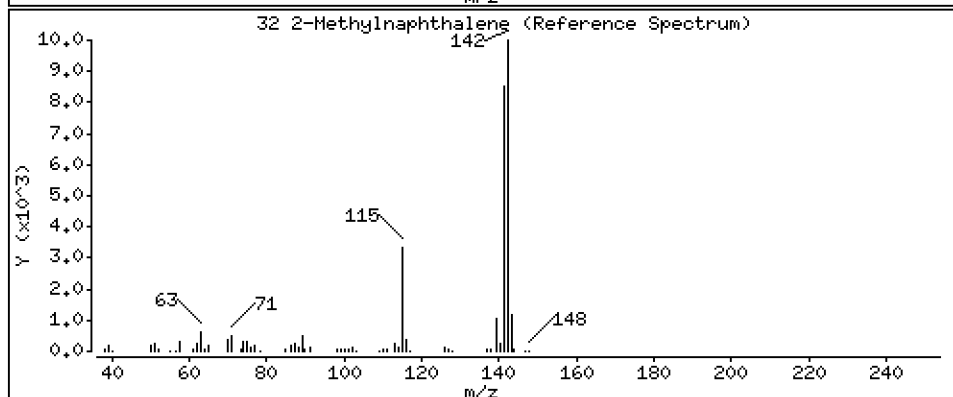
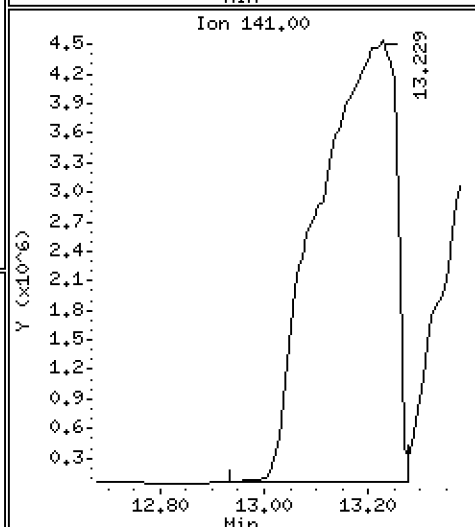
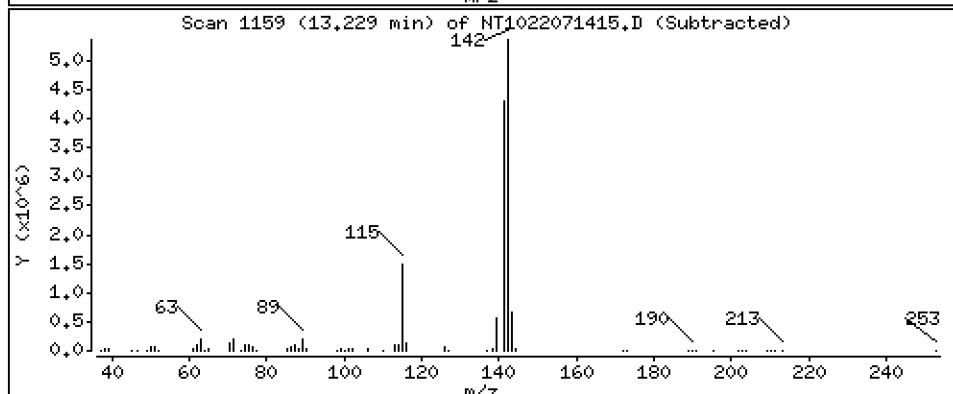
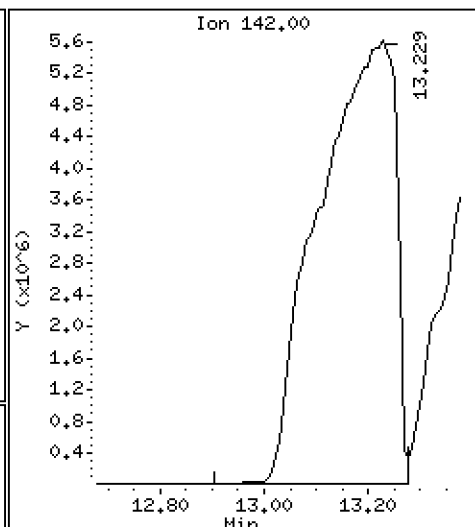
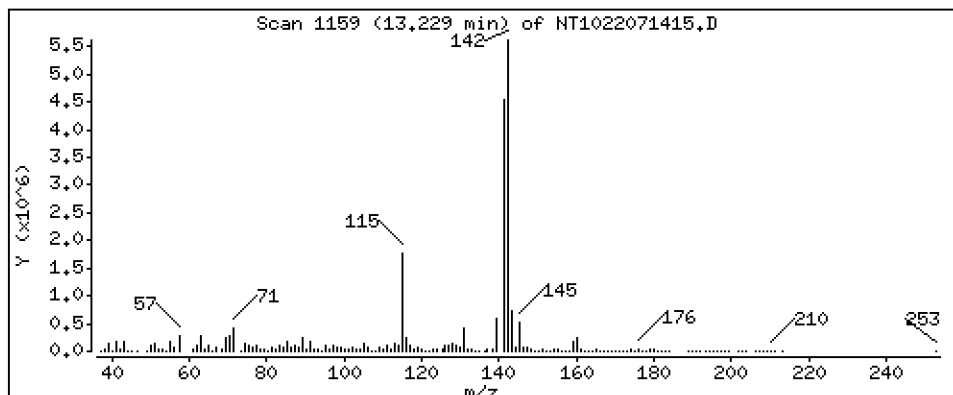
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 489,4 ug/mL



Date : 14-JUL-2022 22:48

Client ID:

Instrument: nt10.i

Sample Info: 2200019-09

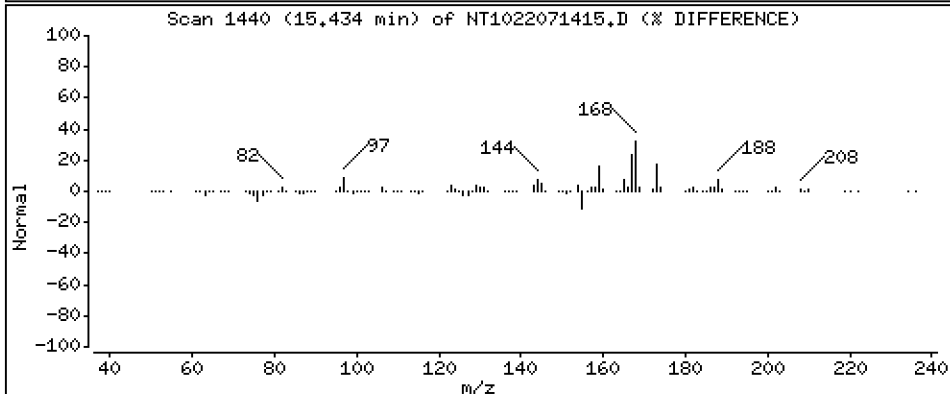
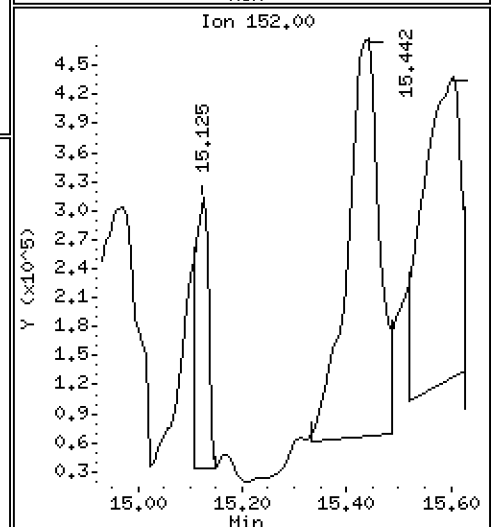
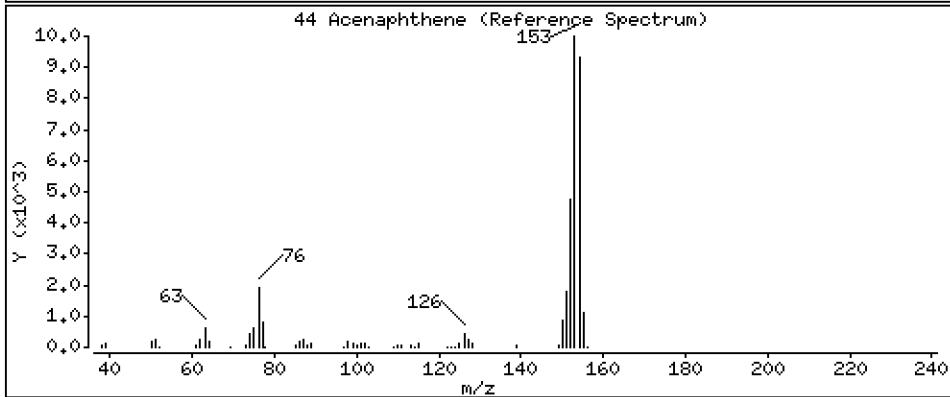
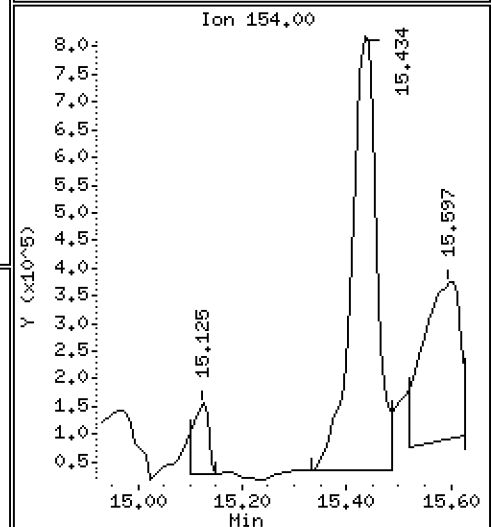
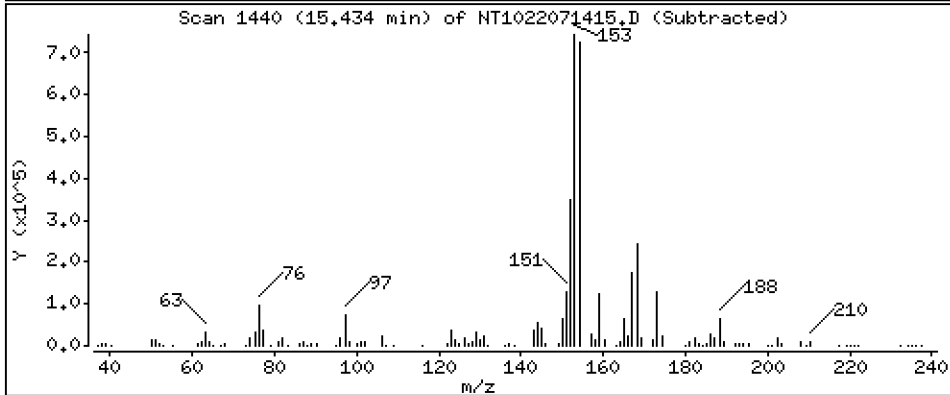
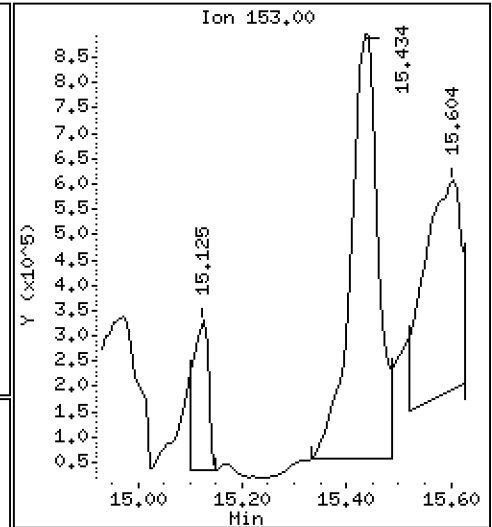
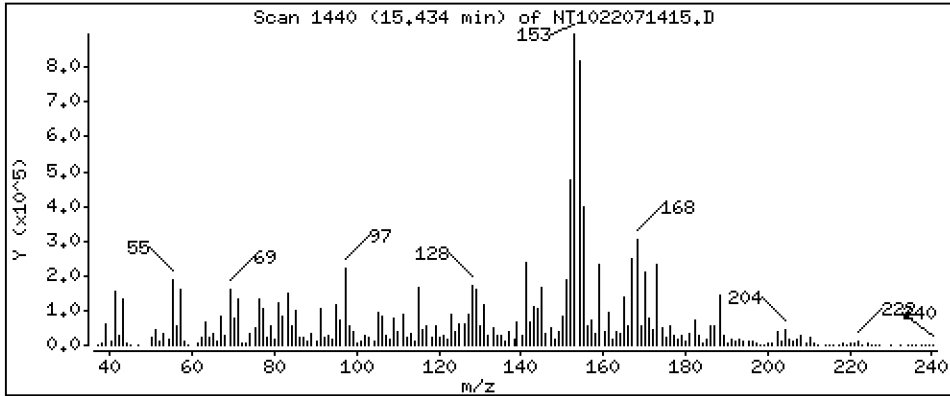
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 48,67 ug/mL



Date : 14-JUL-2022 22:48

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

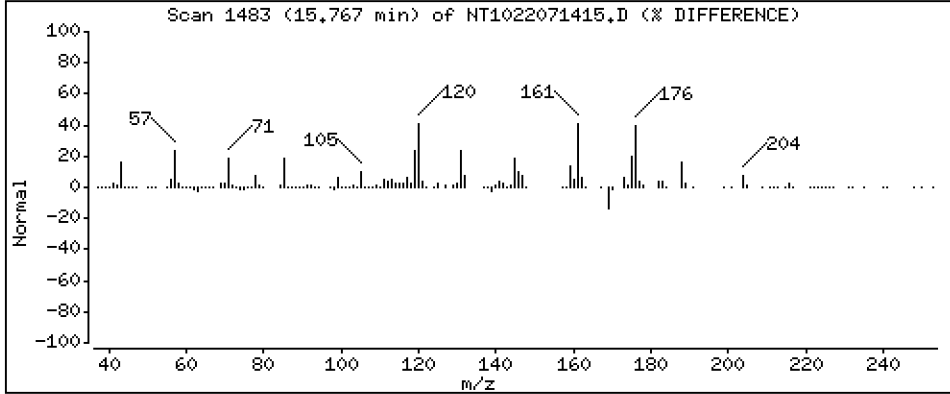
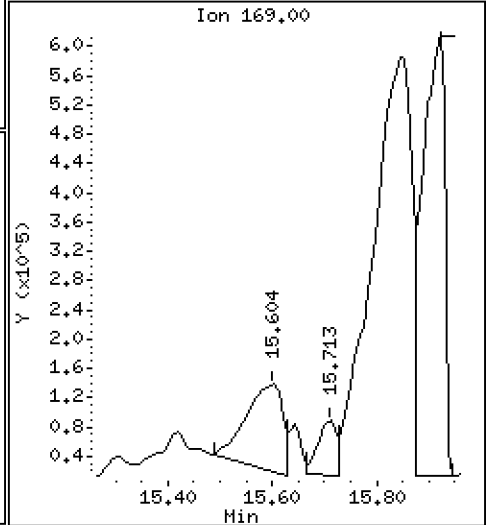
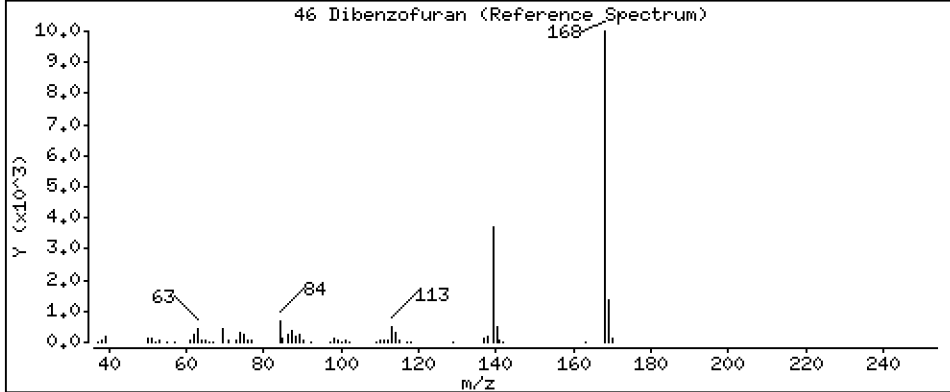
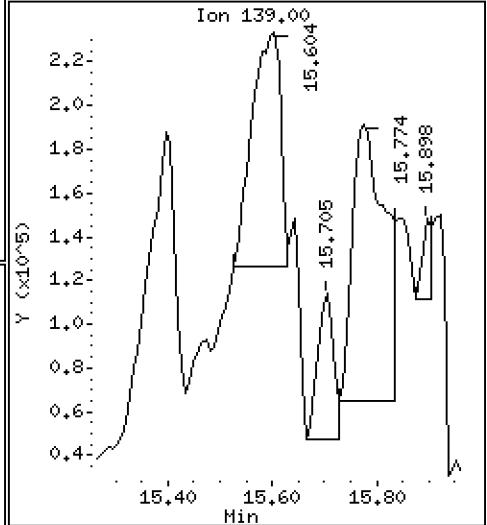
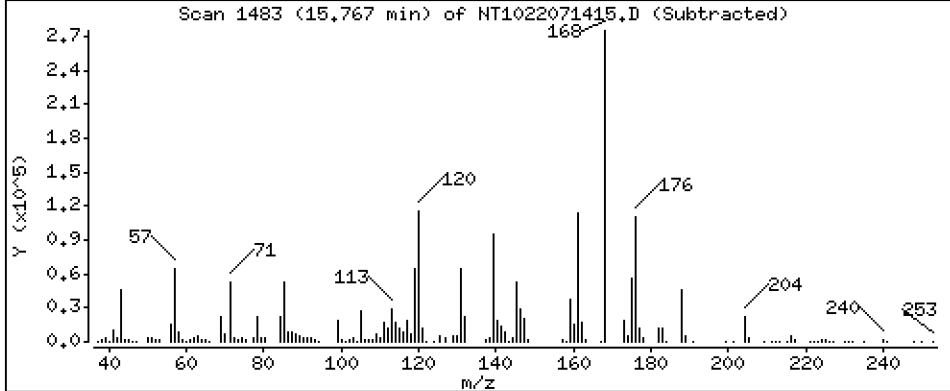
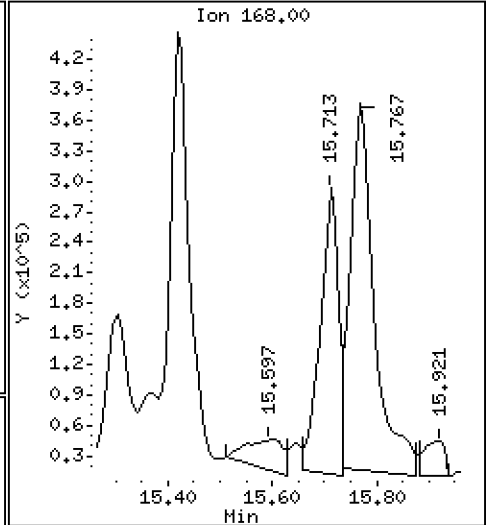
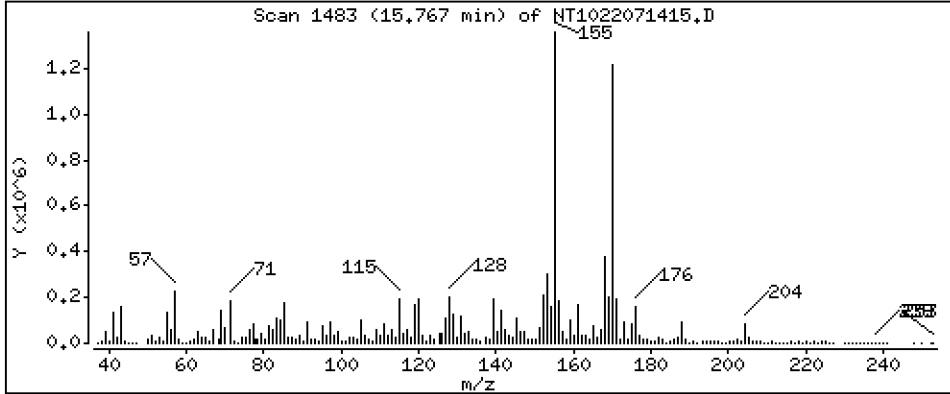
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 11,52 ug/mL



Date : 14-JUL-2022 22:48

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

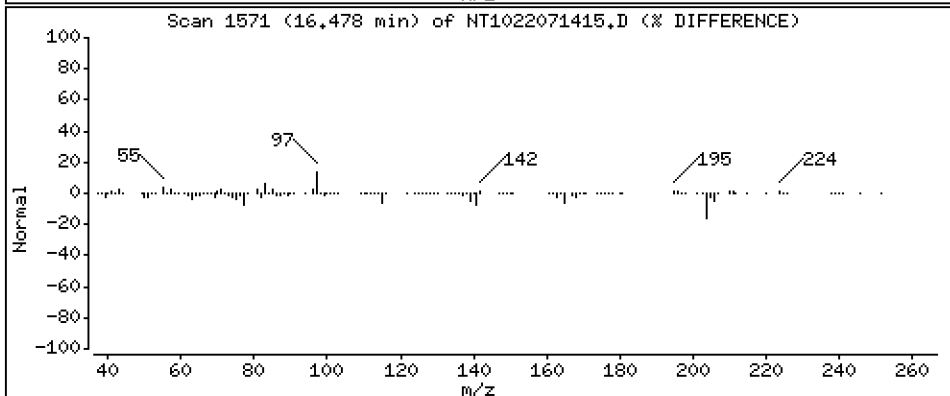
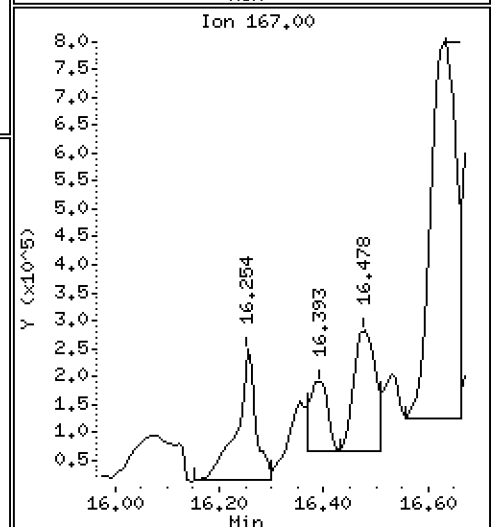
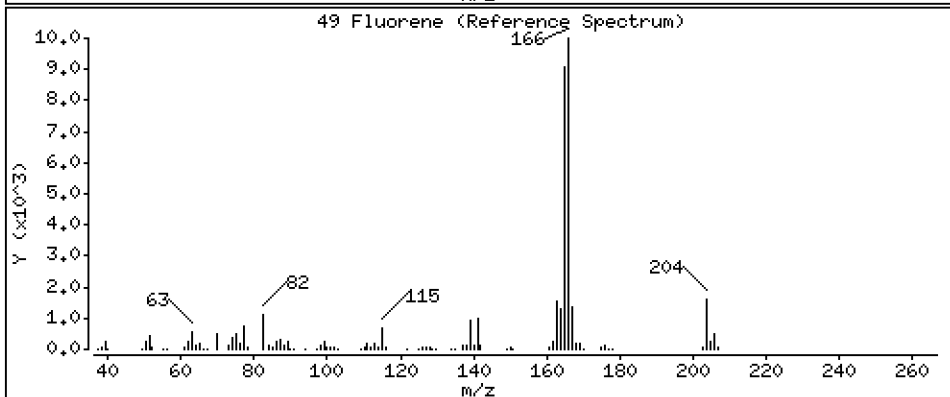
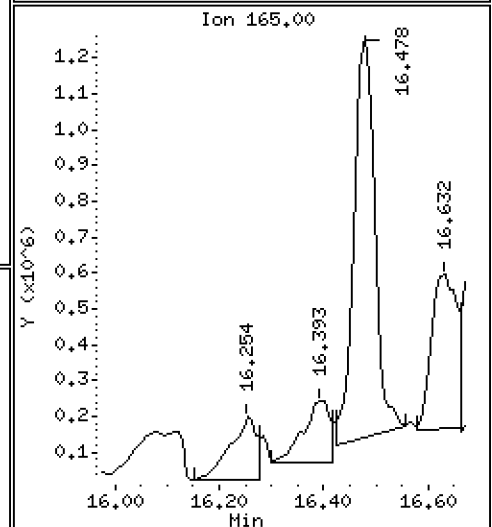
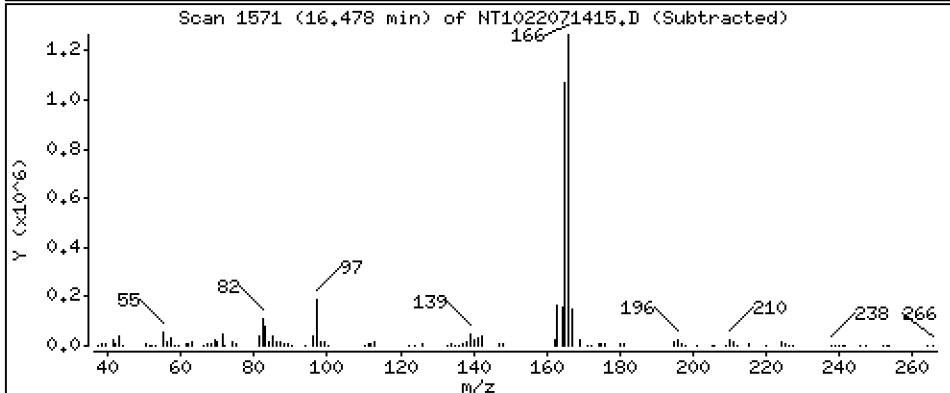
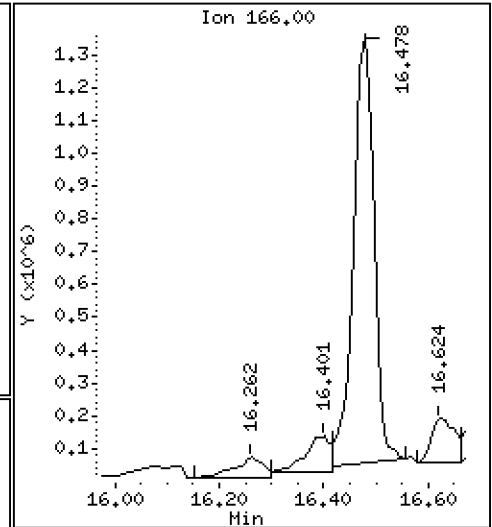
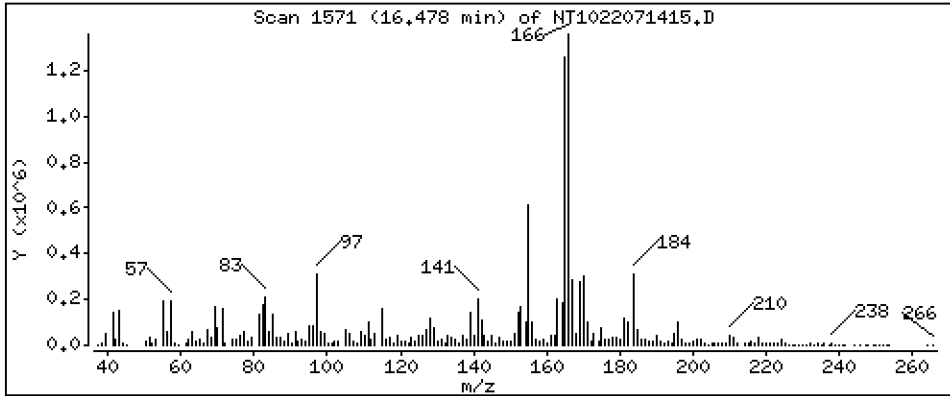
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 29,03 ug/mL



Date : 14-JUL-2022 22:48

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

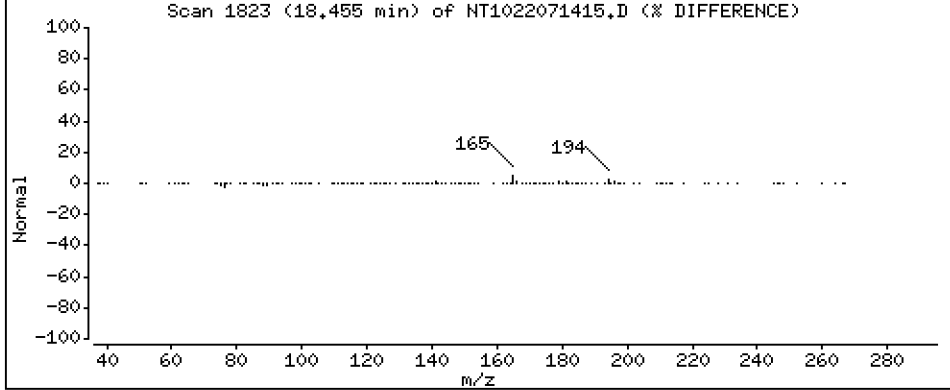
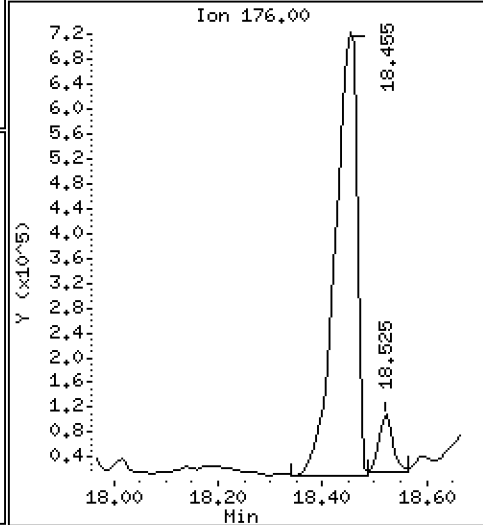
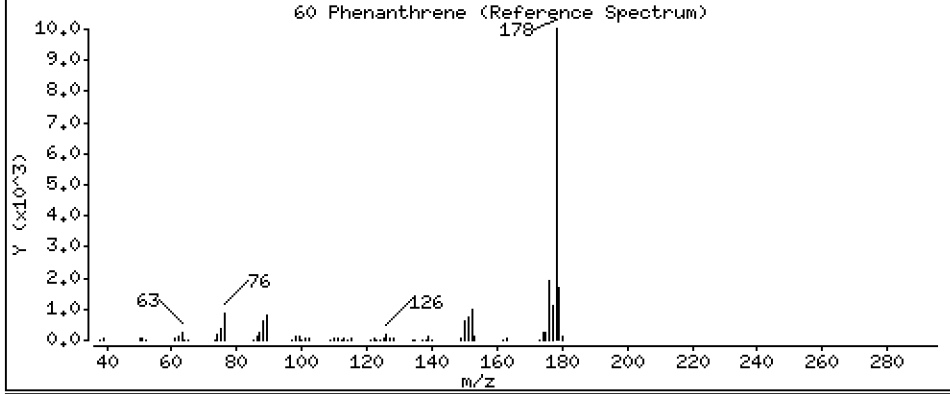
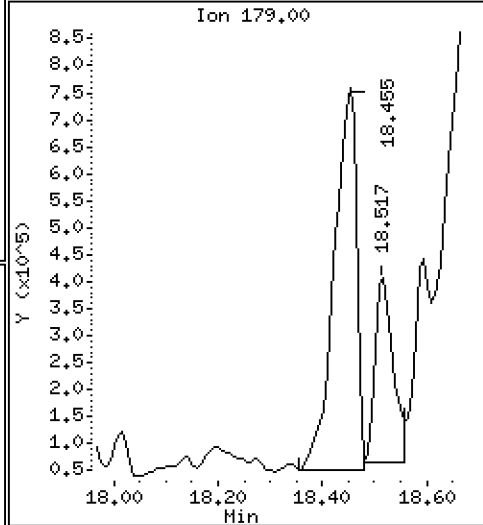
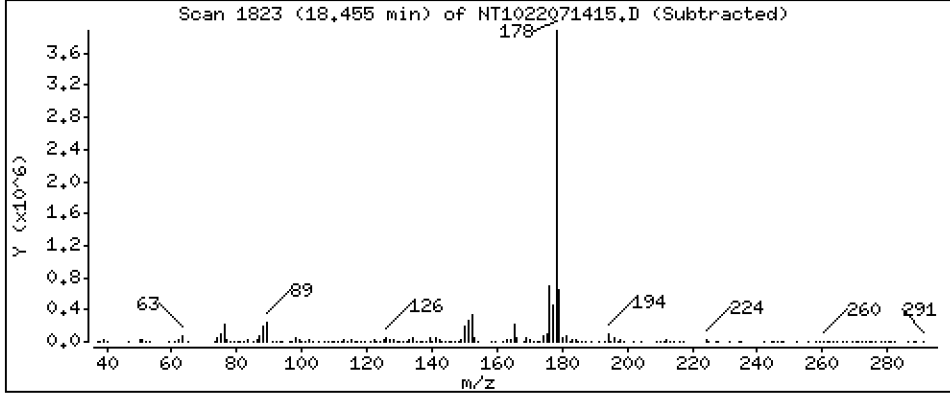
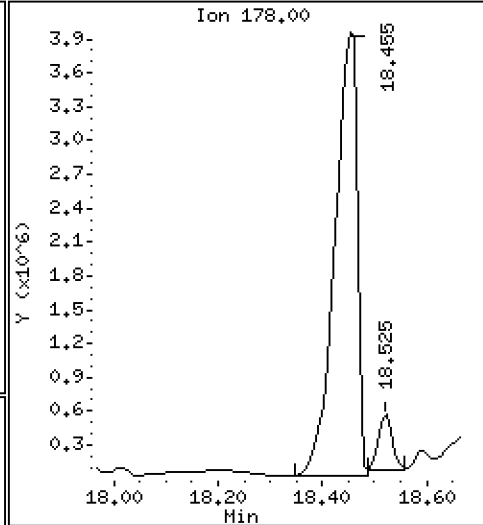
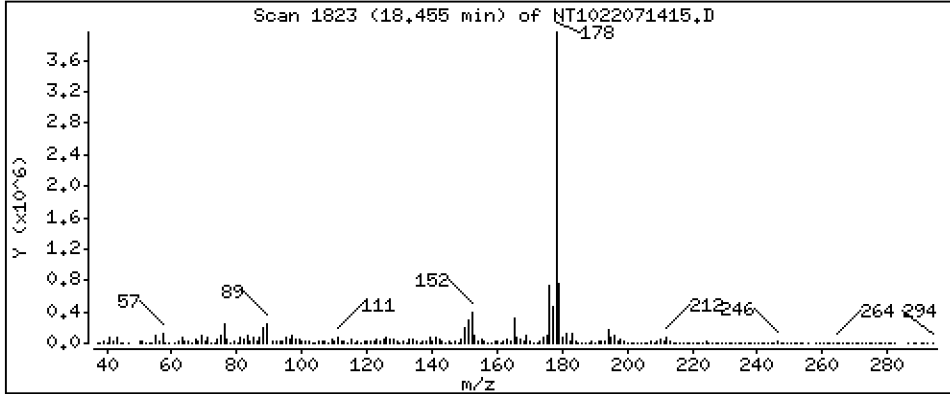
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 173,3 ug/mL



Date : 14-JUL-2022 22:48

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

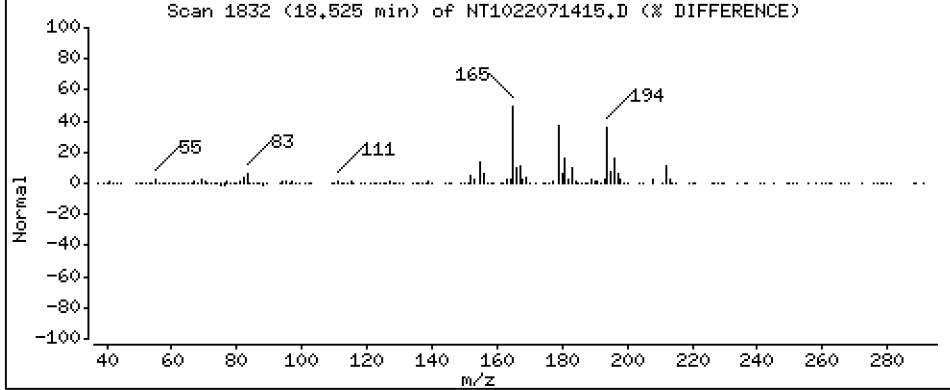
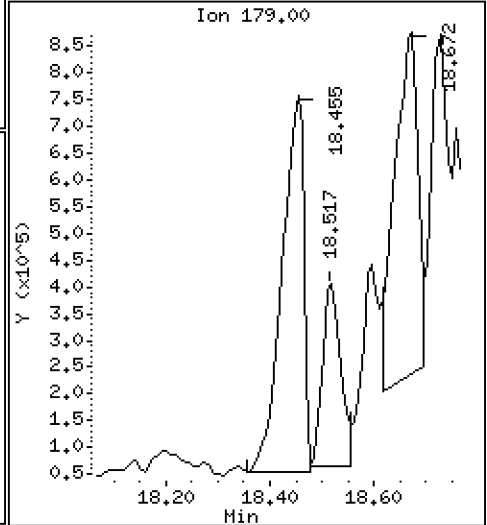
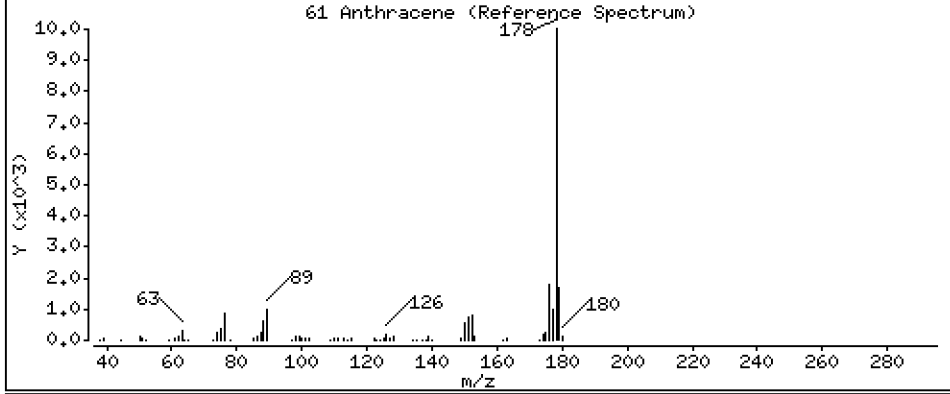
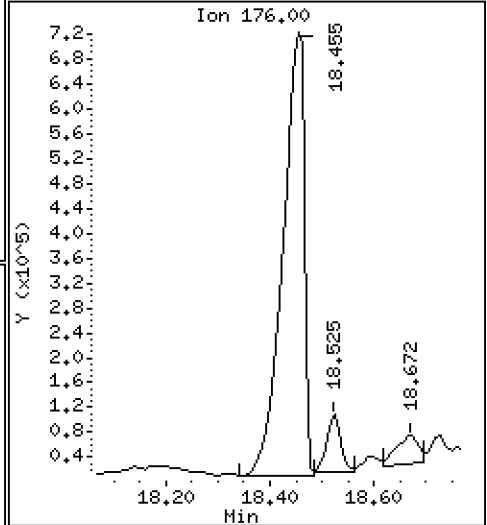
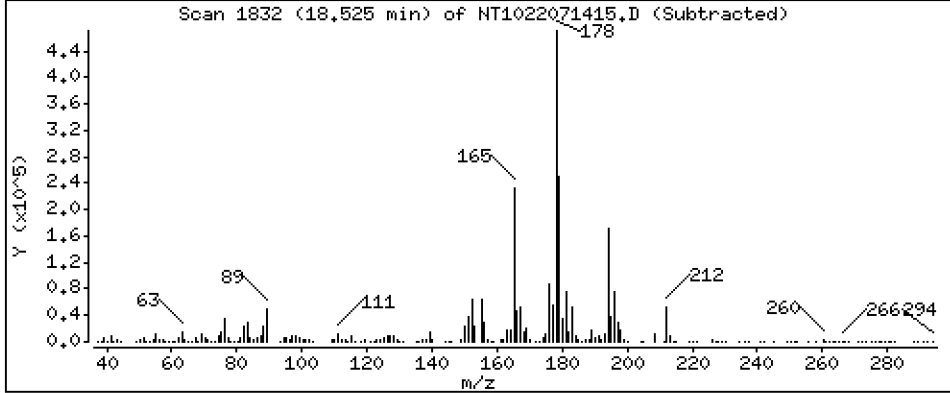
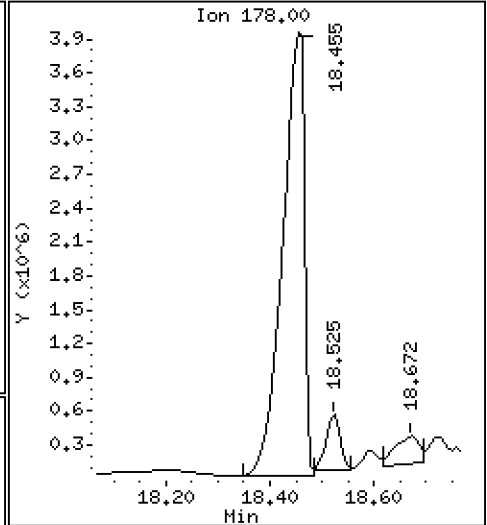
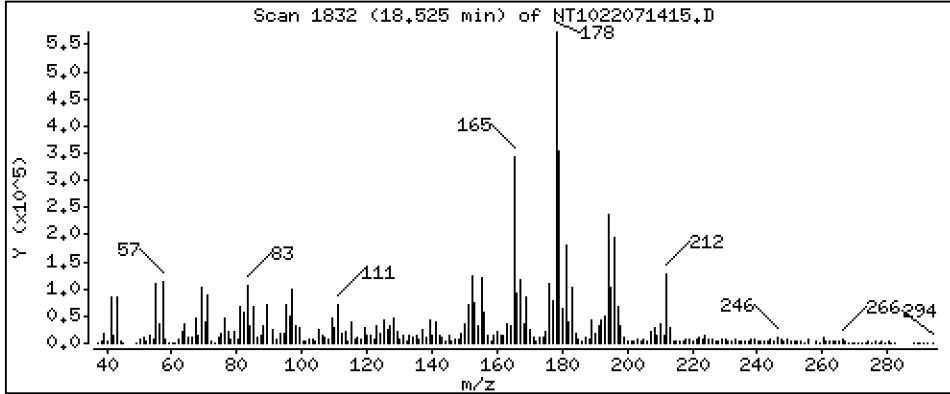
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 13,64 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

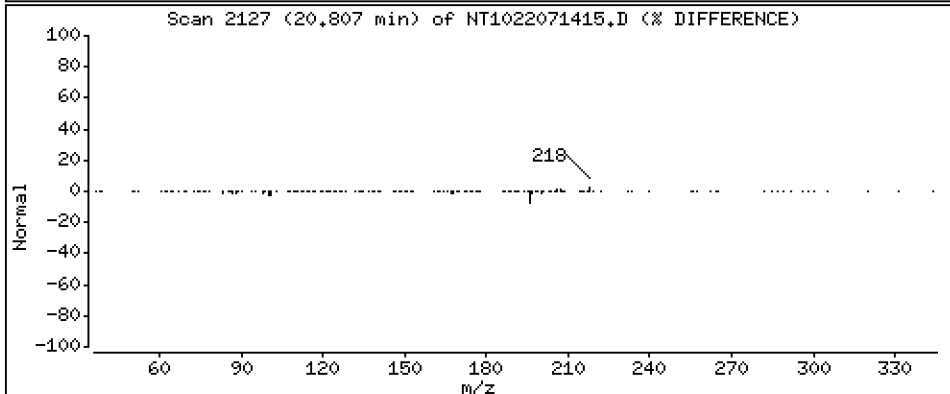
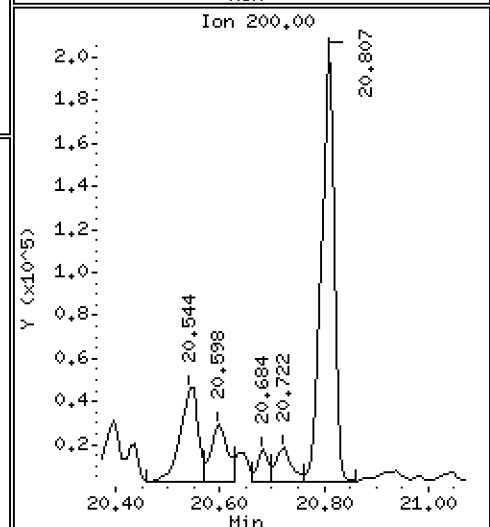
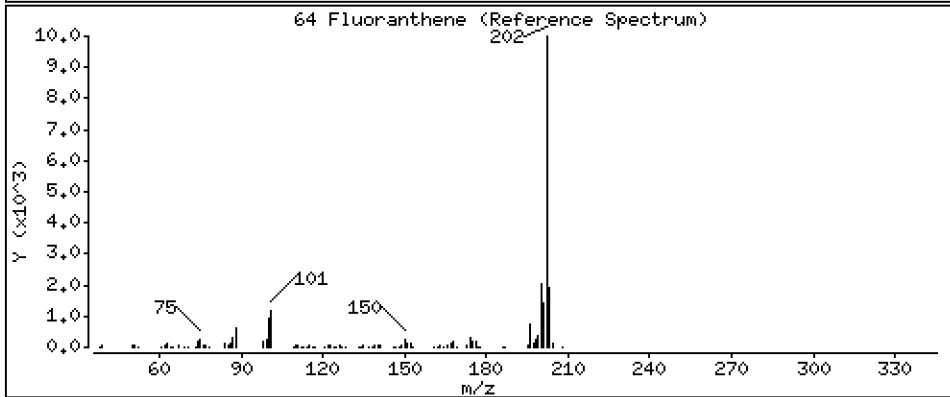
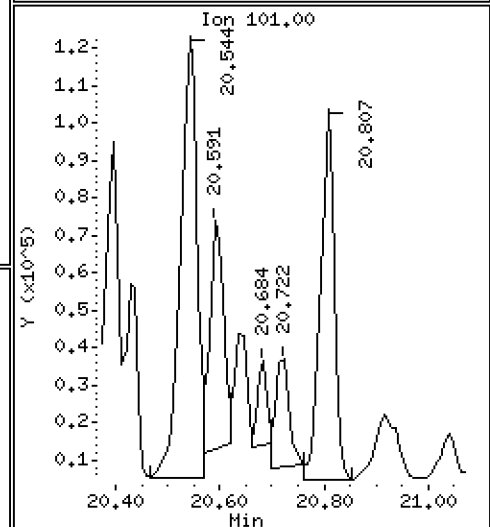
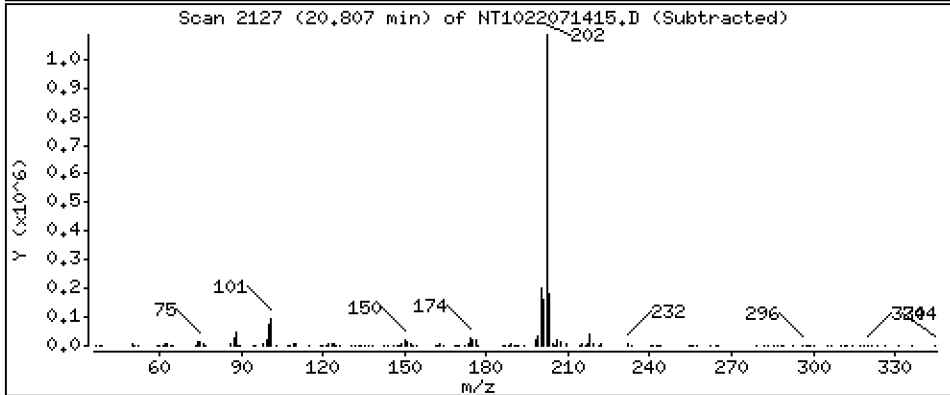
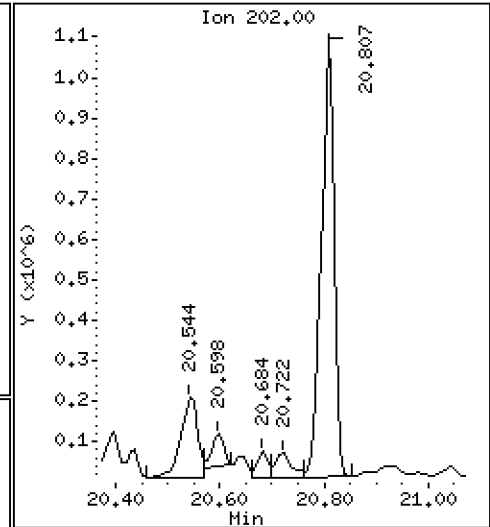
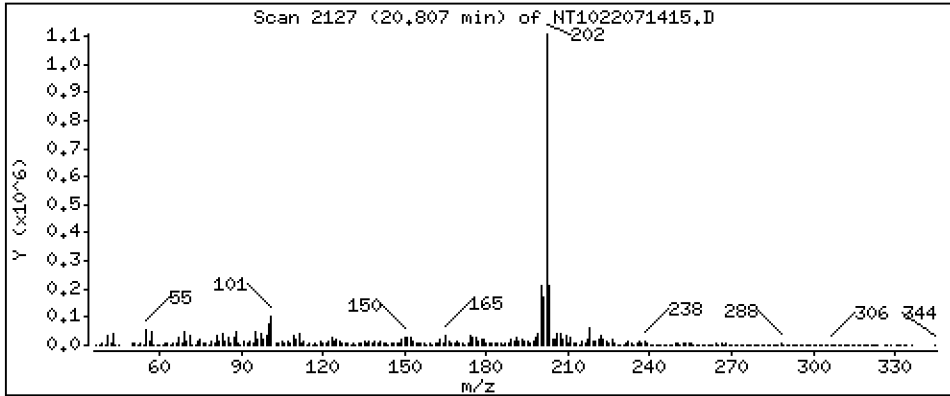
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 8,138 ug/mL

64 Fluoranthene



Date : 14-JUL-2022 22:48

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

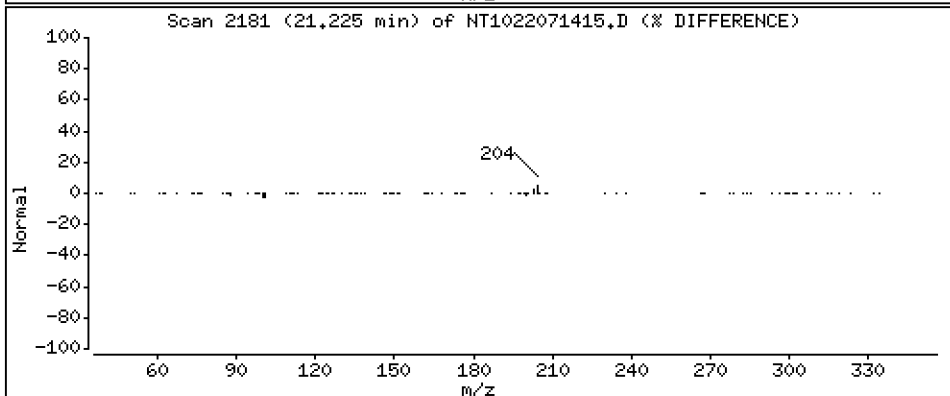
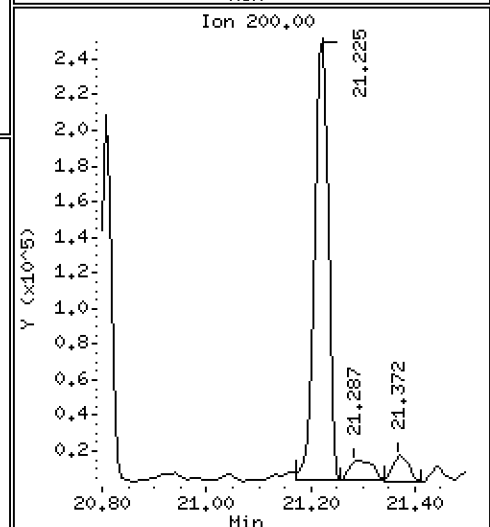
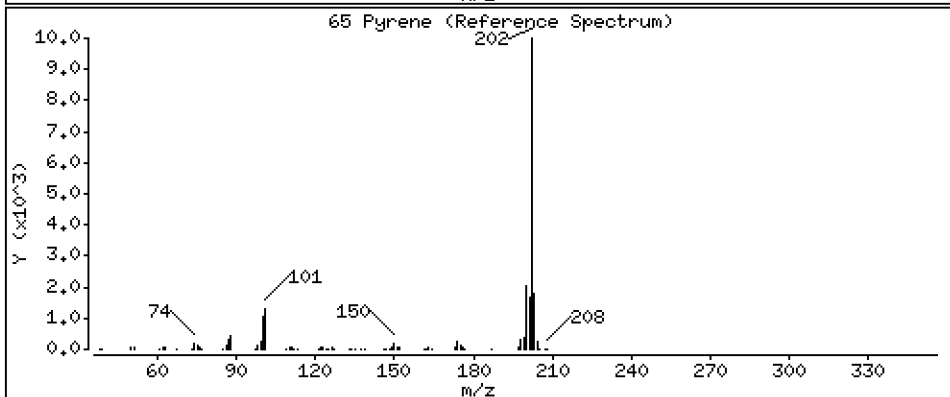
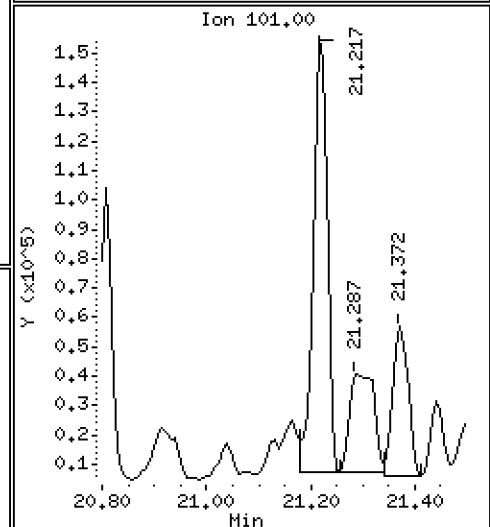
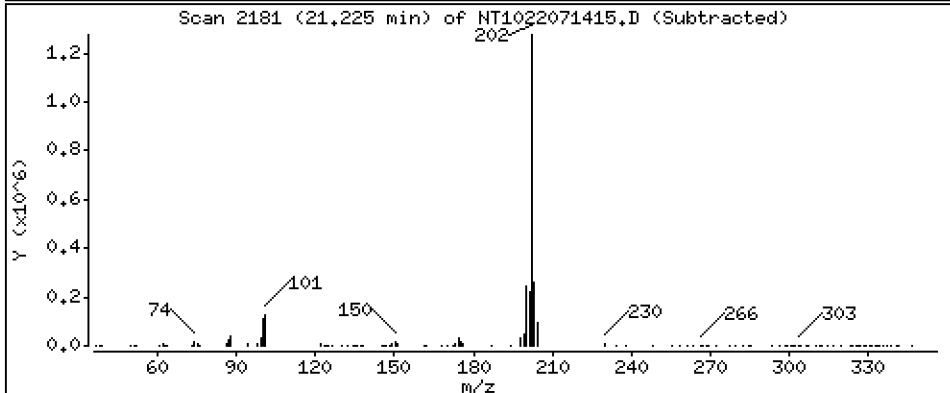
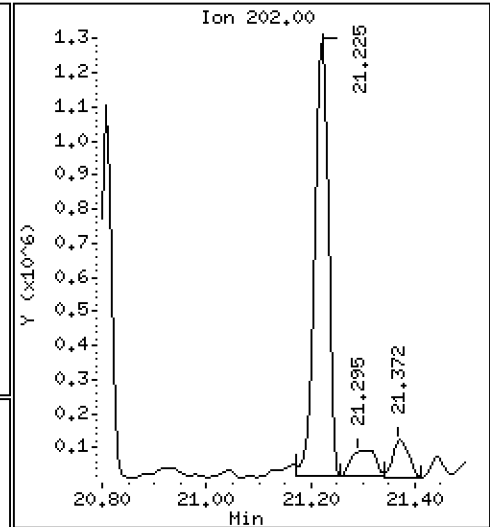
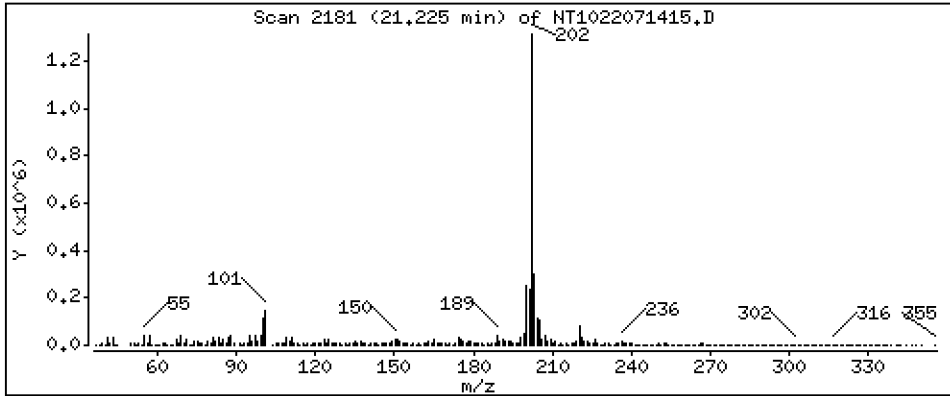
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 11,11 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

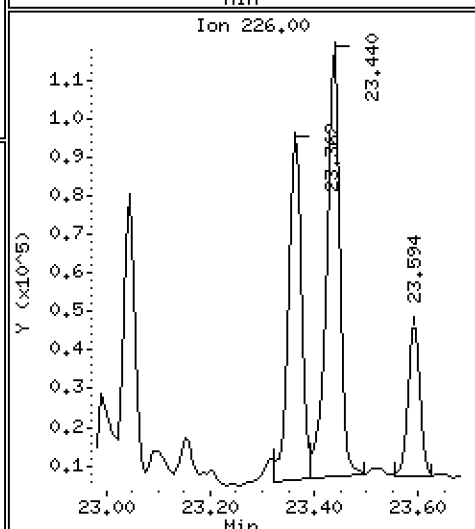
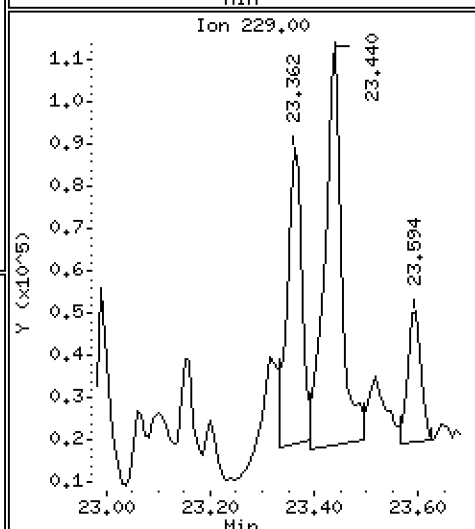
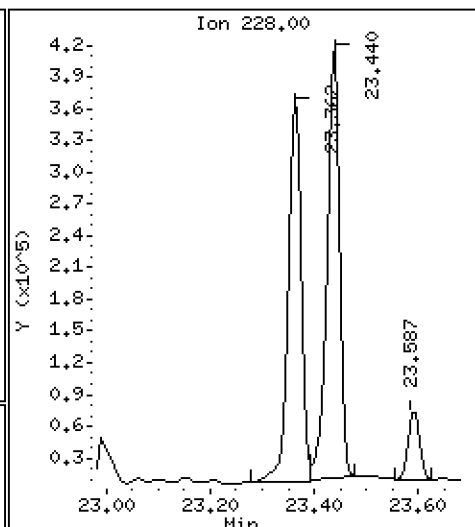
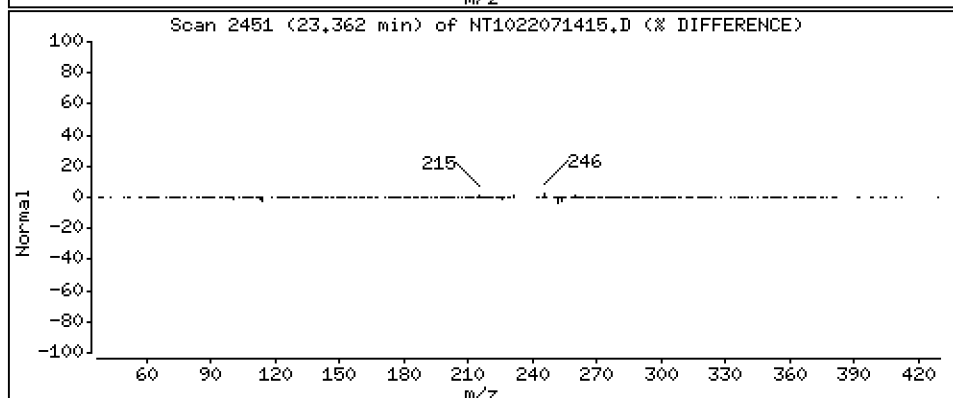
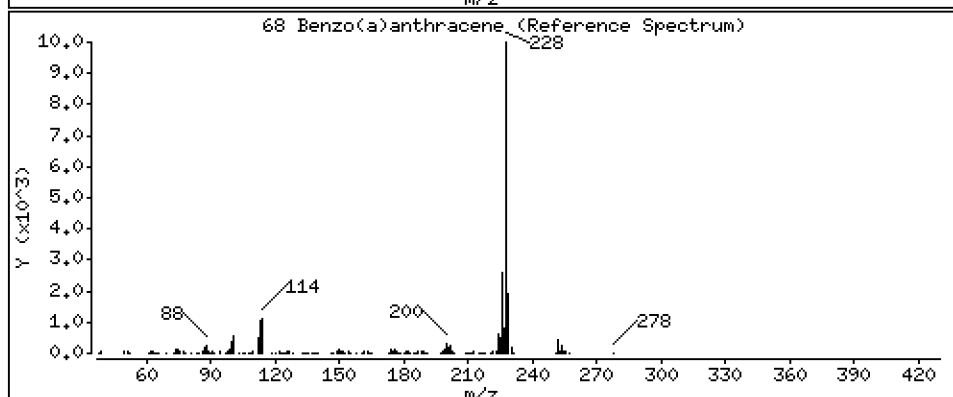
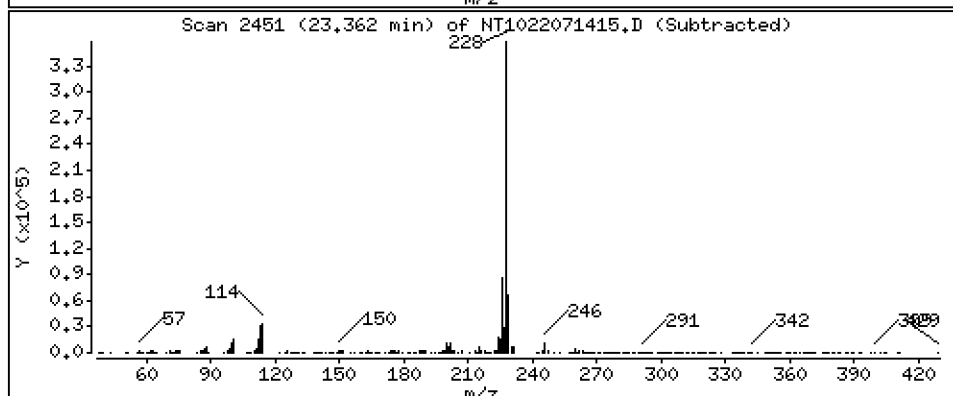
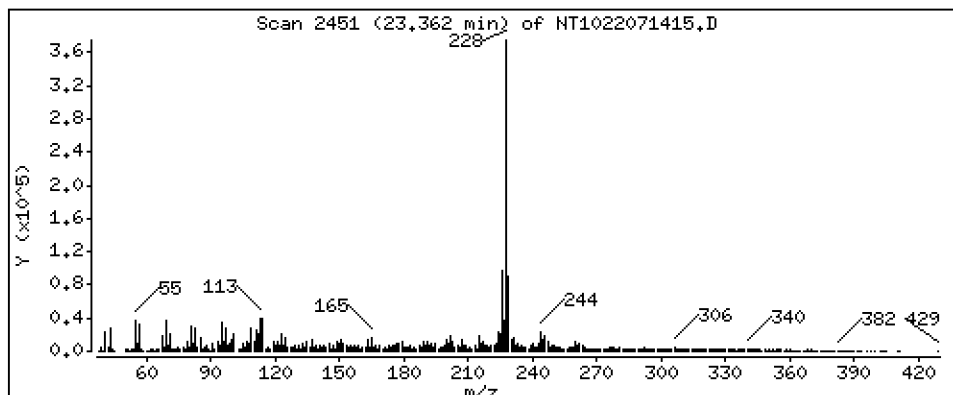
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 5,344 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 2200019-09

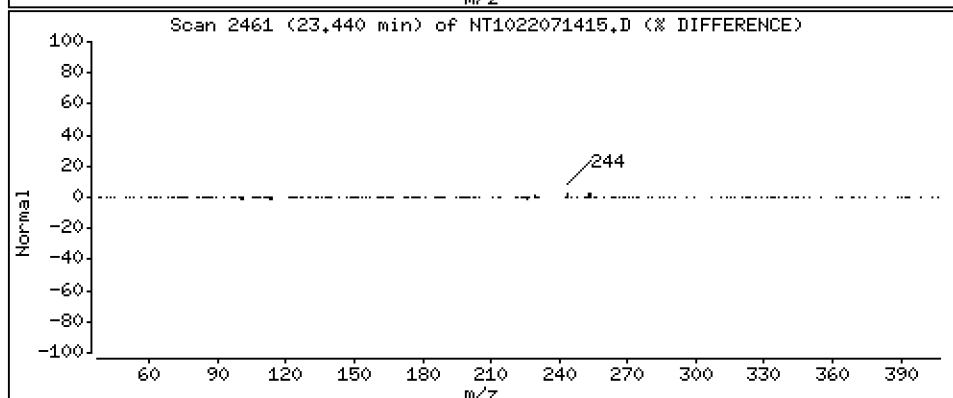
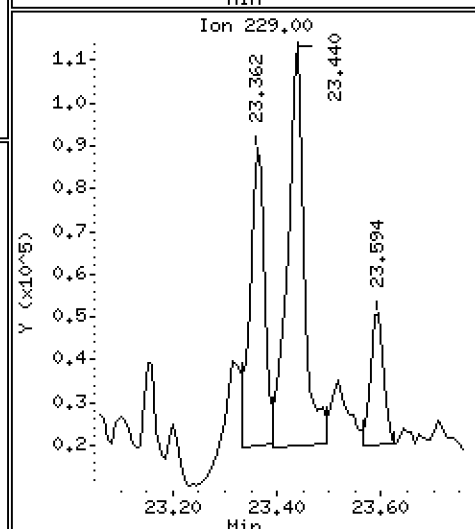
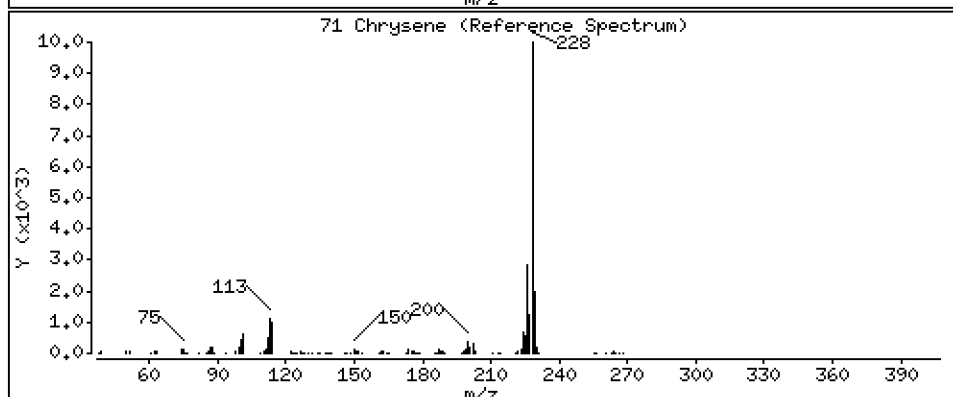
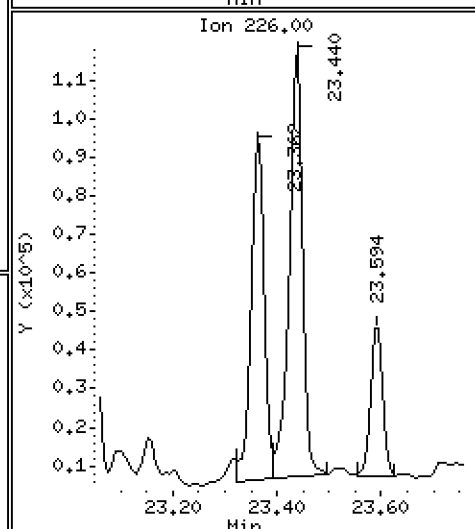
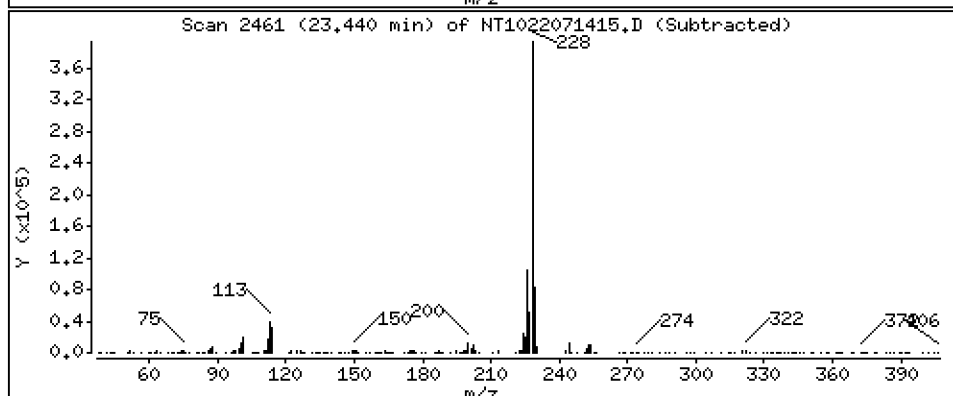
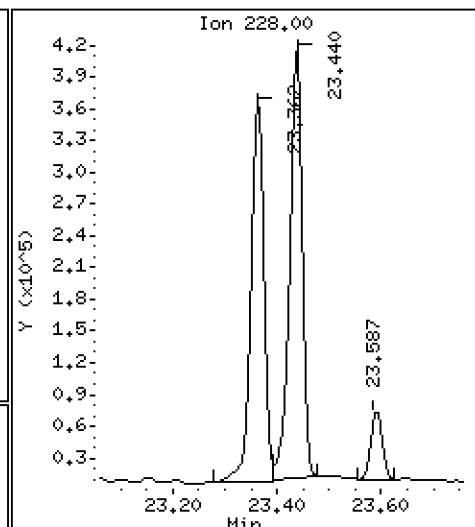
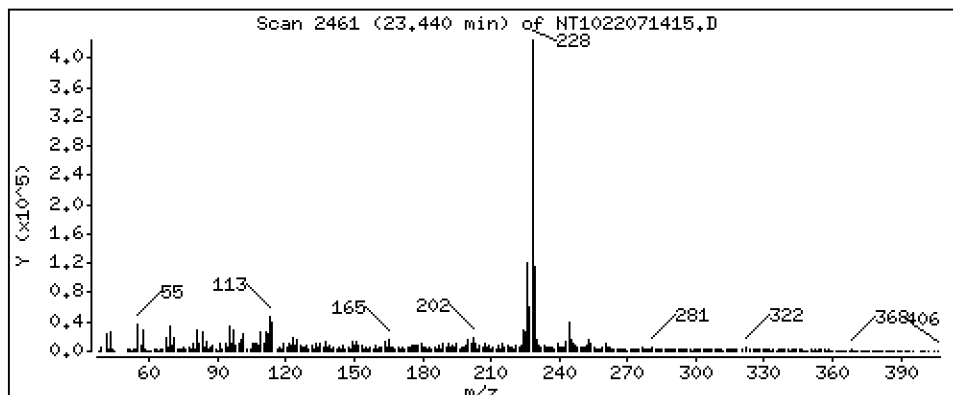
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 7,882 ug/mL



Date : 14-JUL-2022 22:48

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

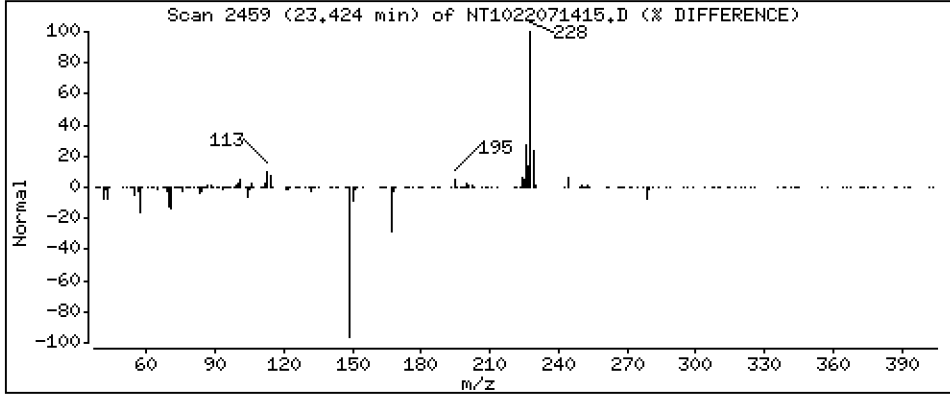
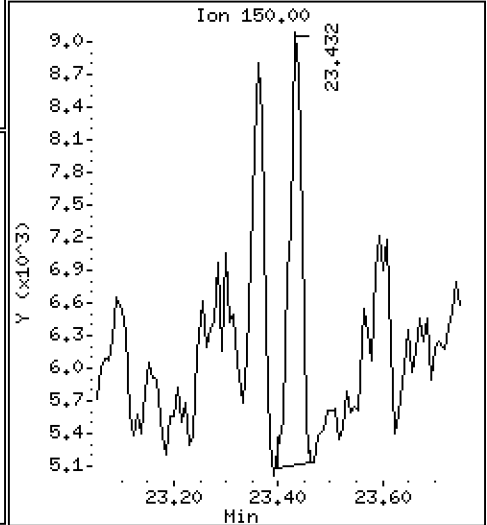
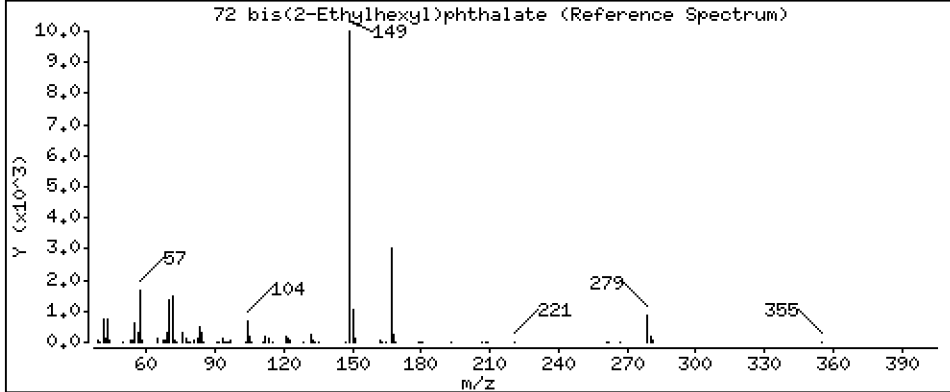
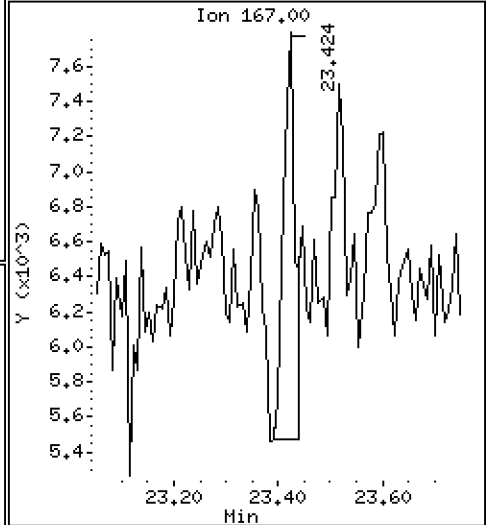
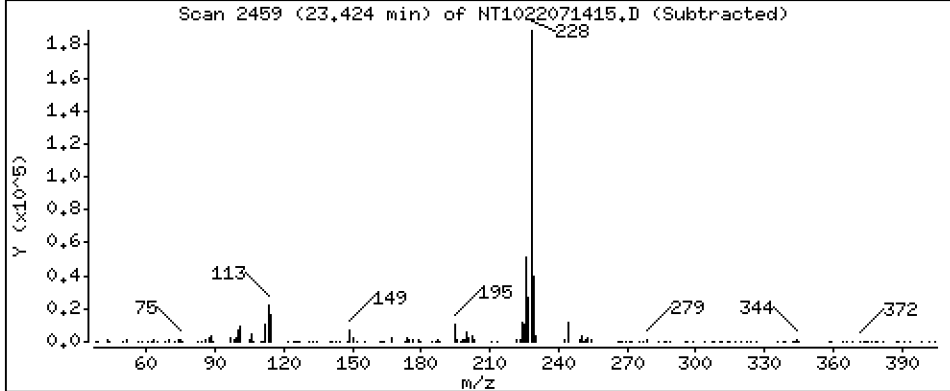
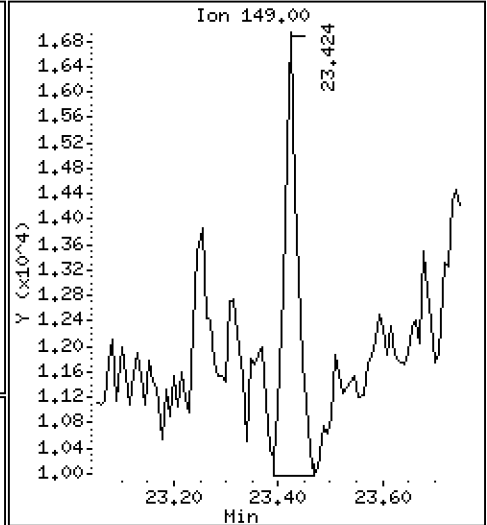
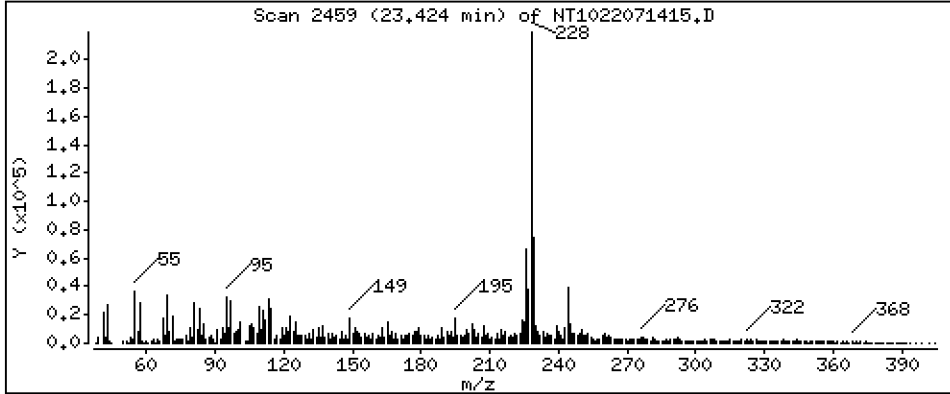
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,2776 ug/mL



Date : 14-JUL-2022 22:48

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

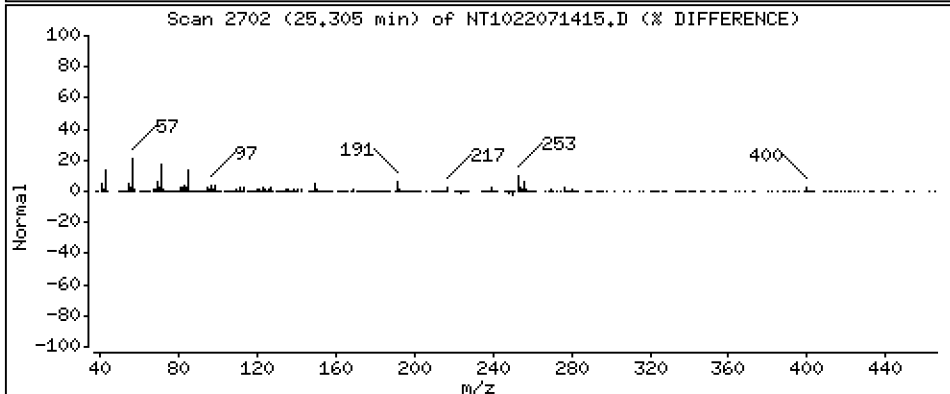
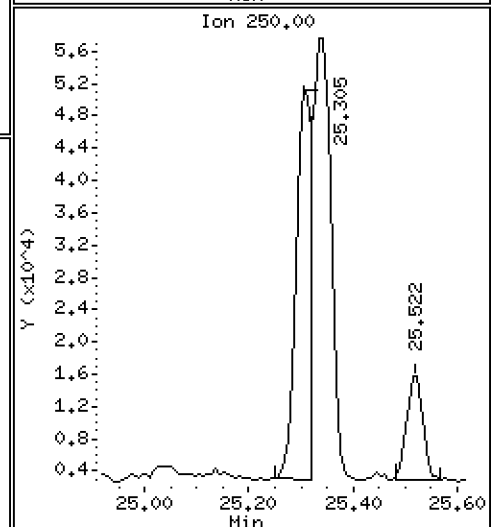
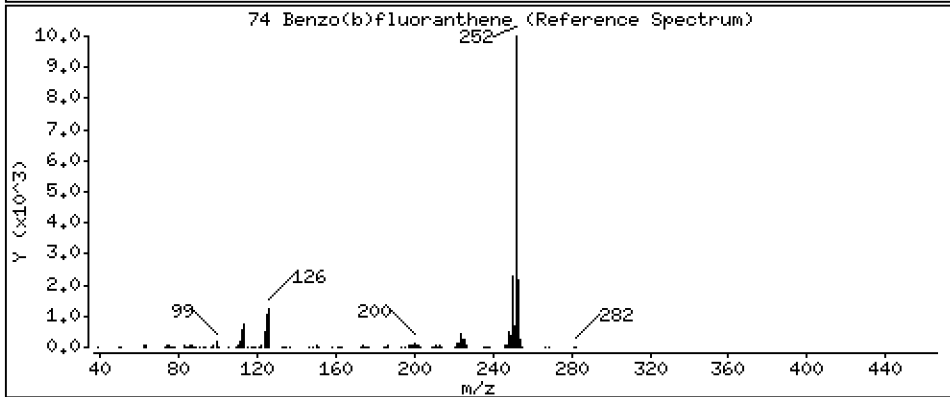
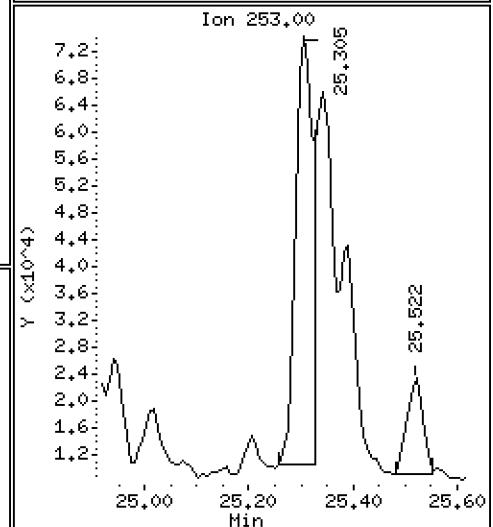
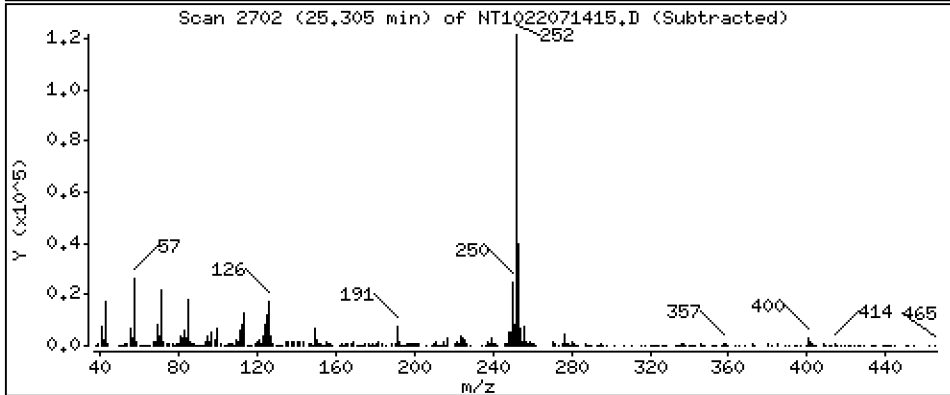
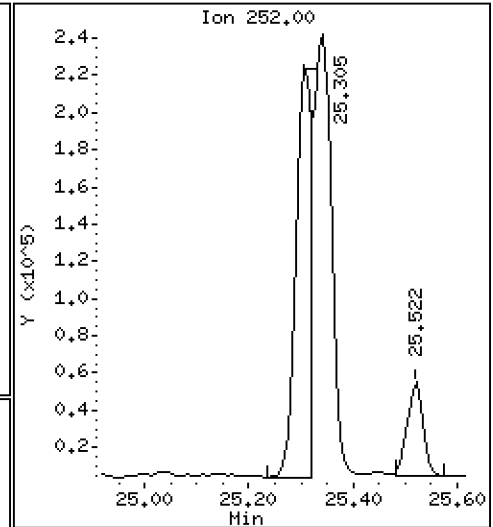
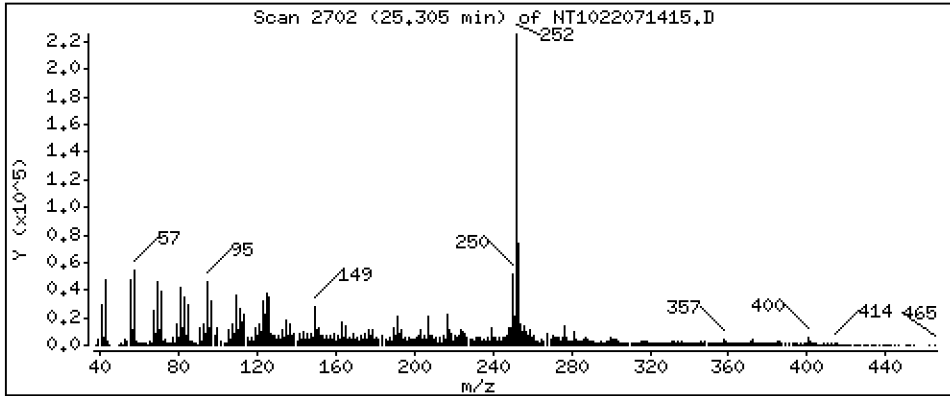
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 3,344 ug/mL



Date : 14-JUL-2022 22:48

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

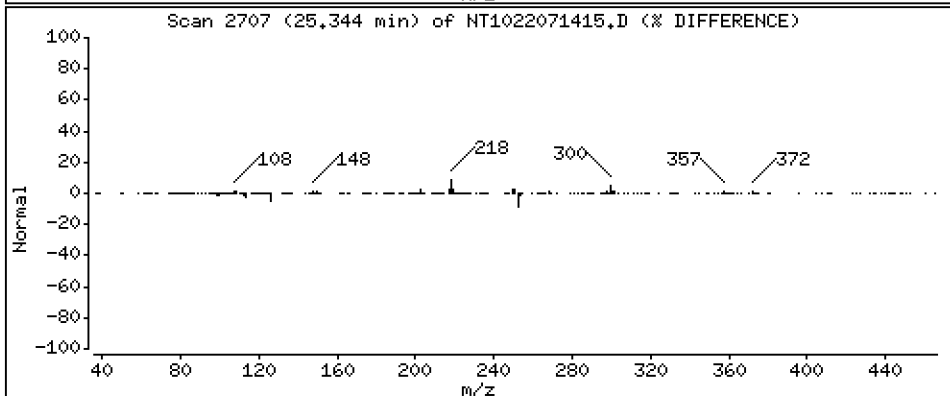
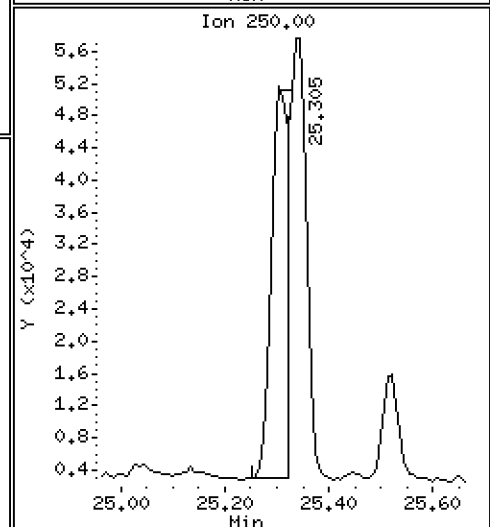
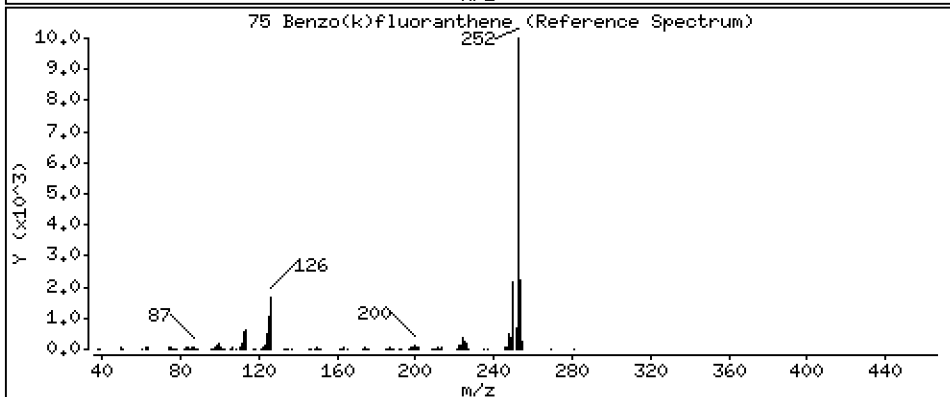
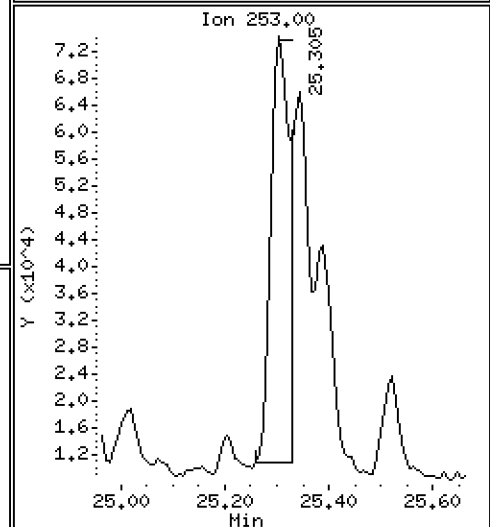
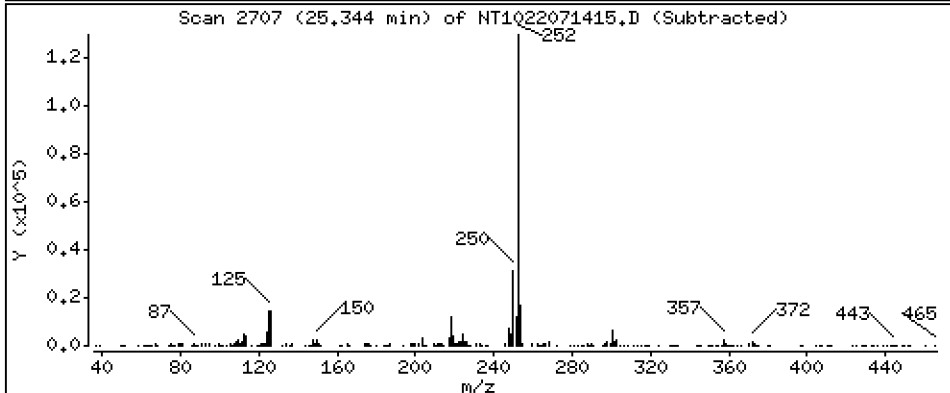
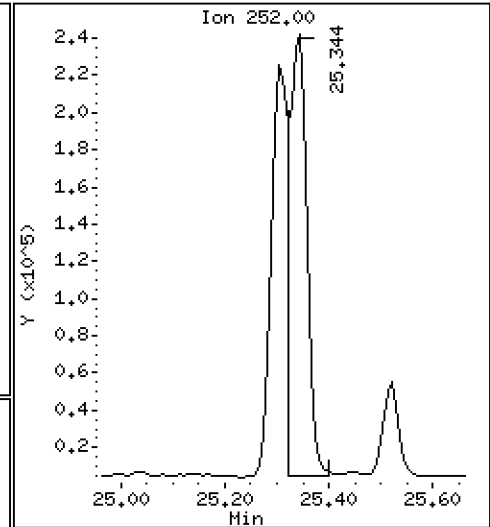
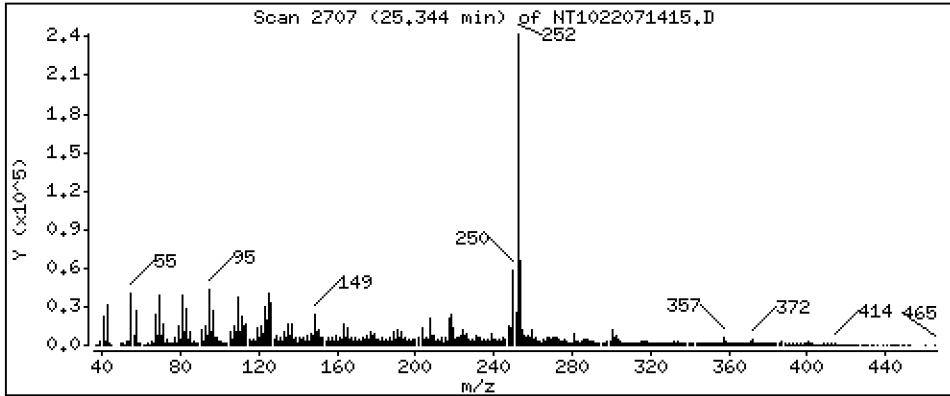
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,291 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

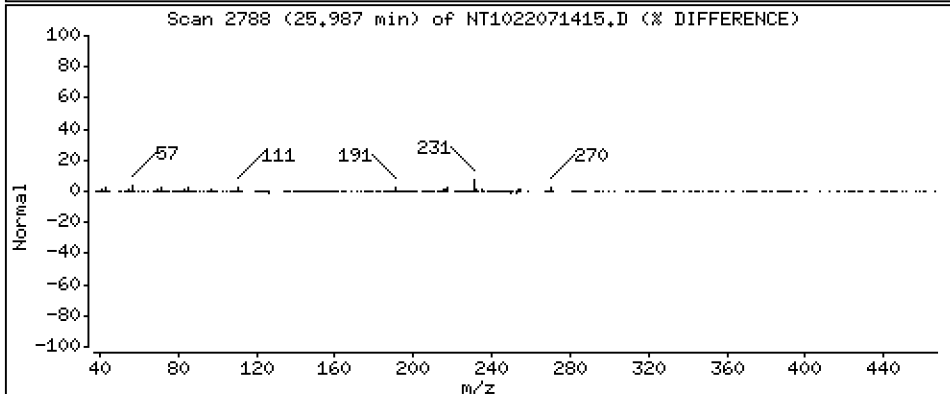
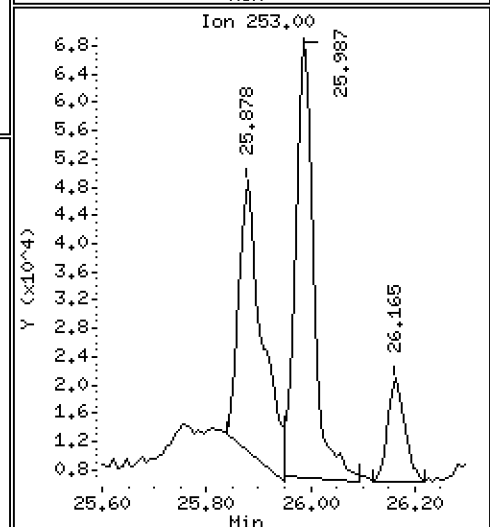
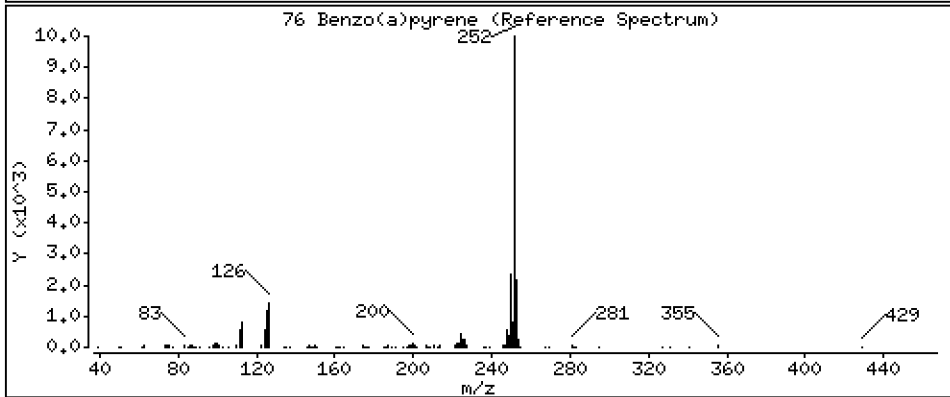
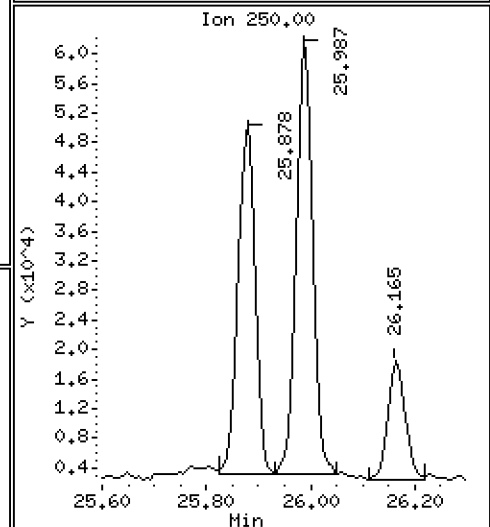
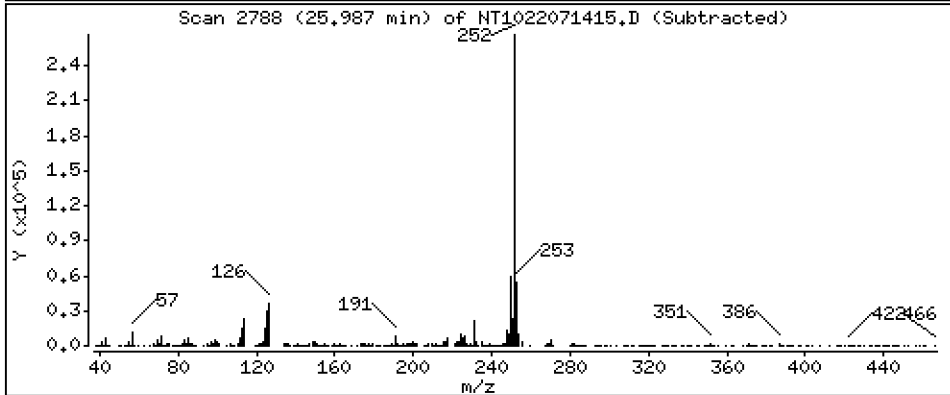
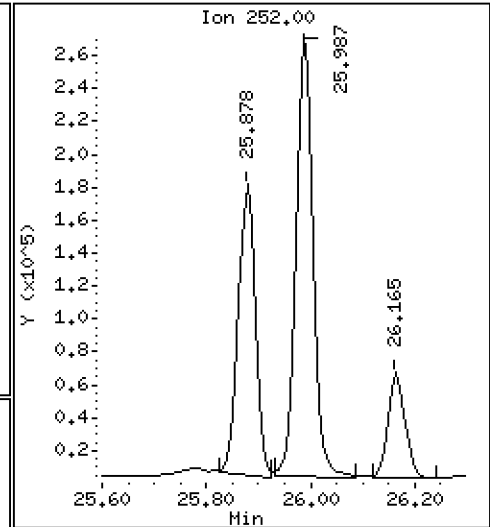
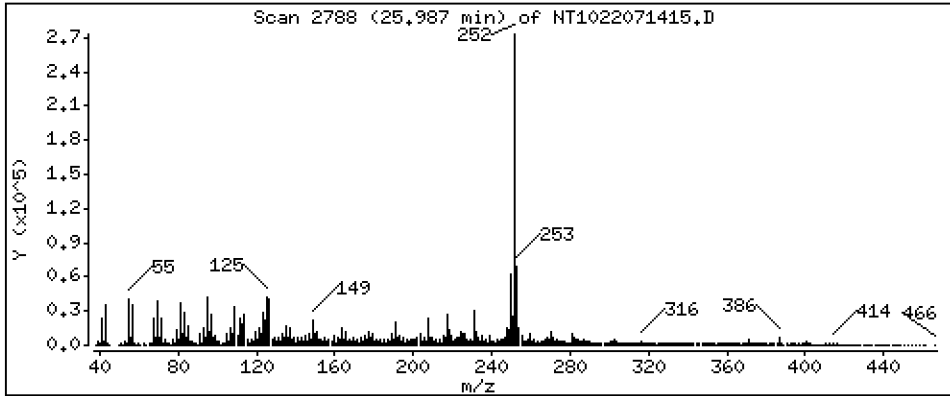
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 5,392 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

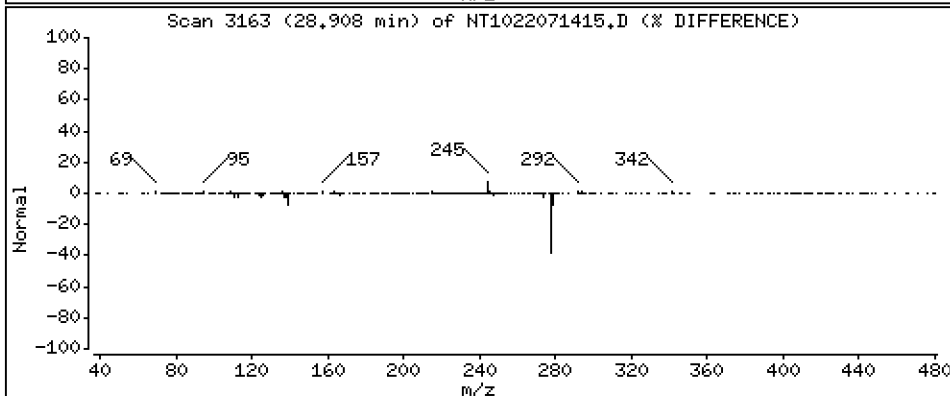
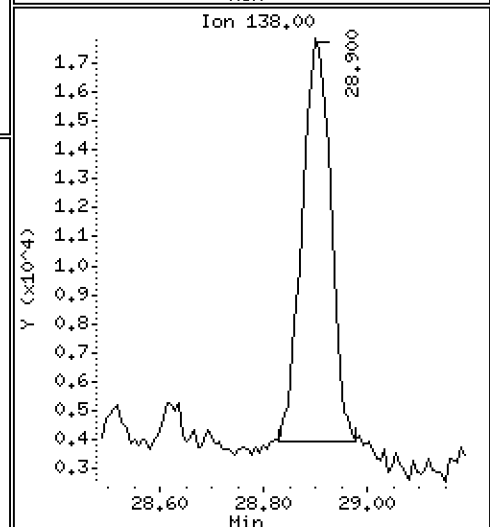
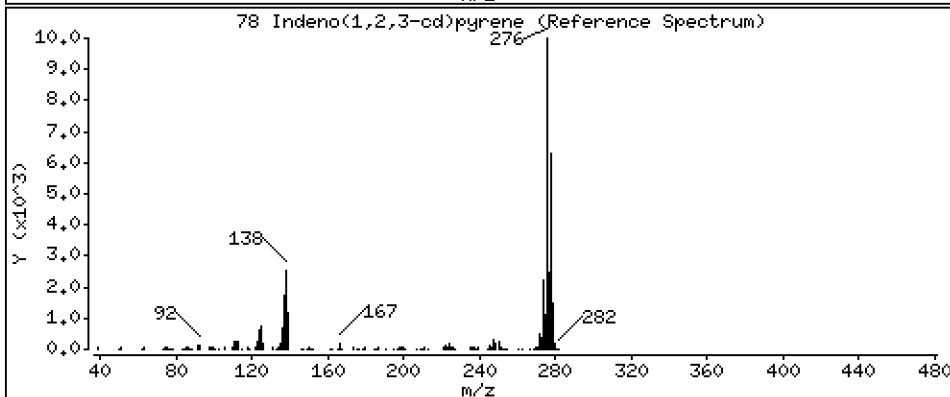
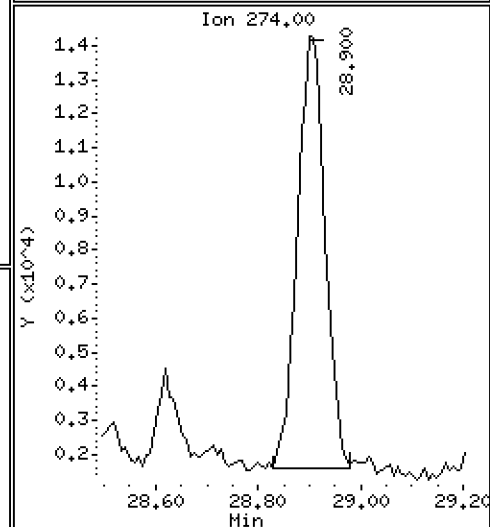
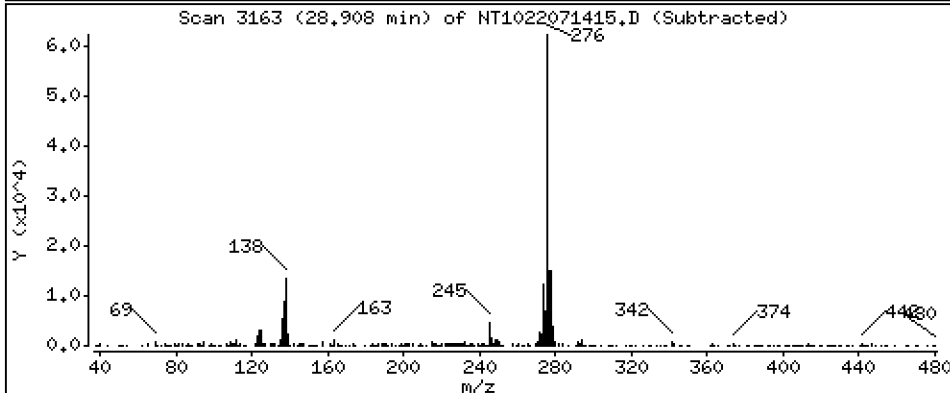
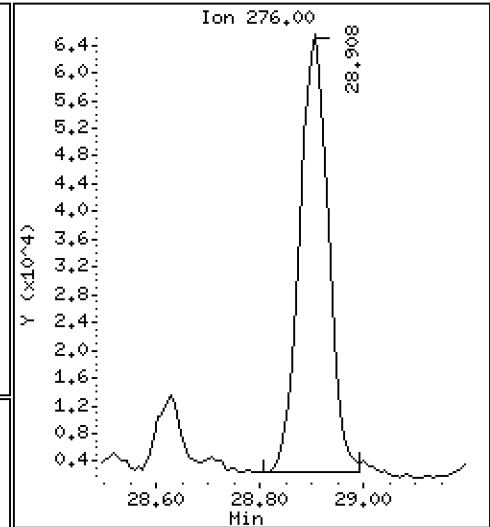
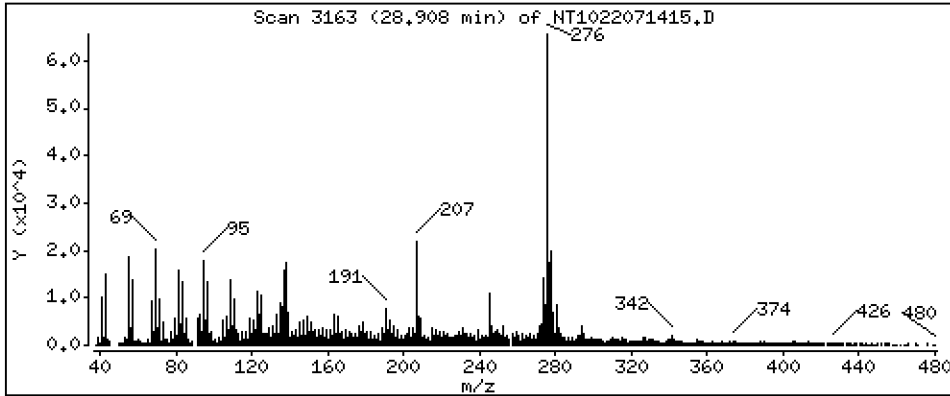
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 1,952 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

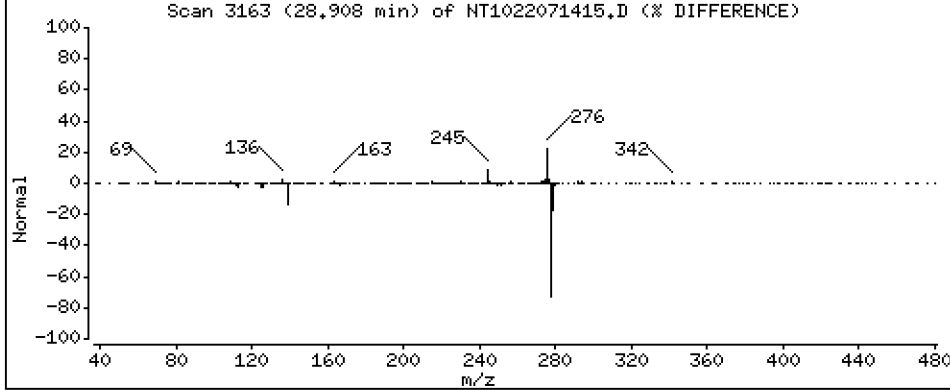
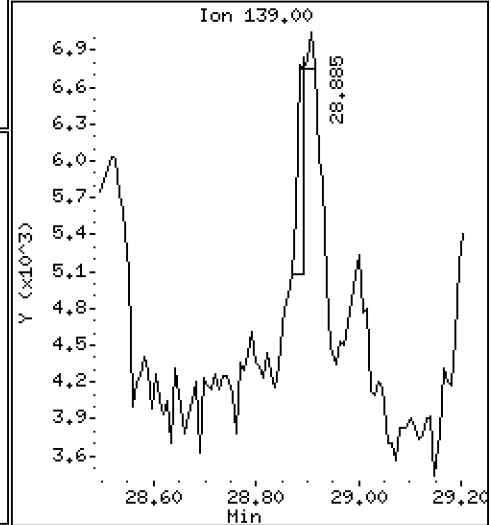
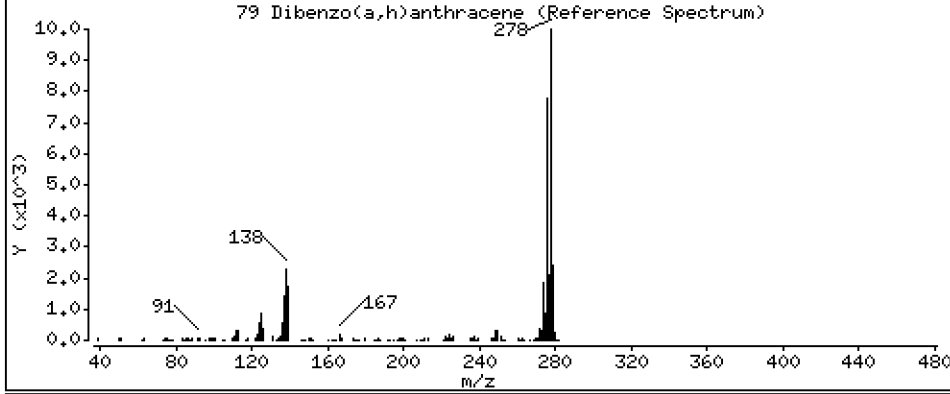
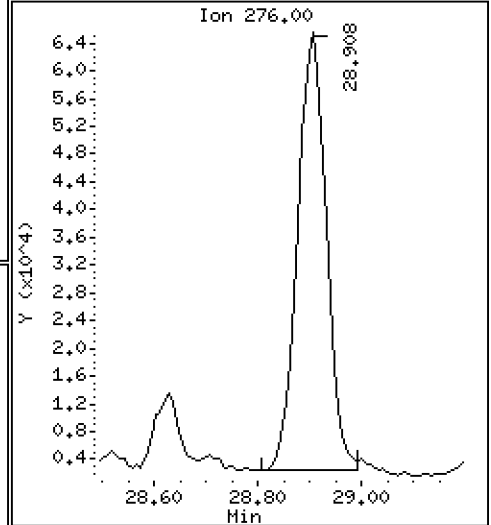
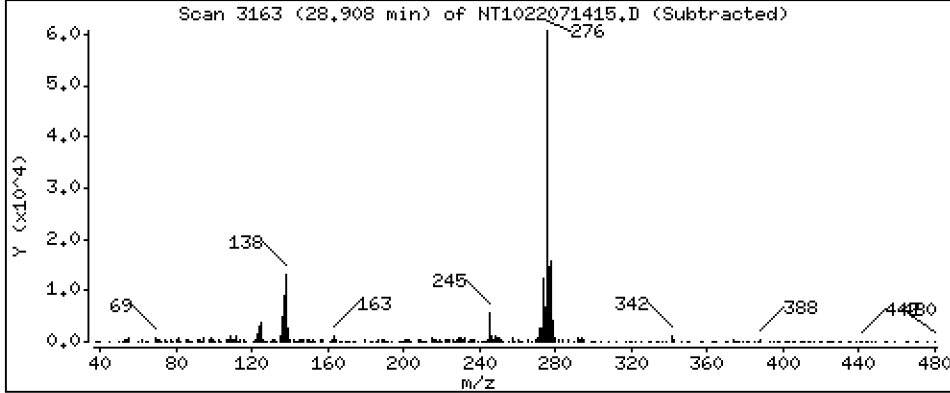
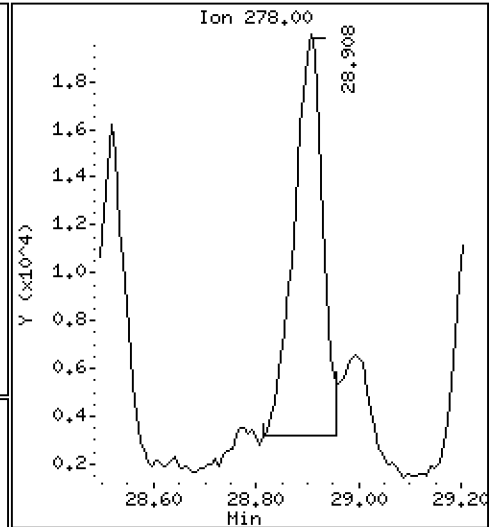
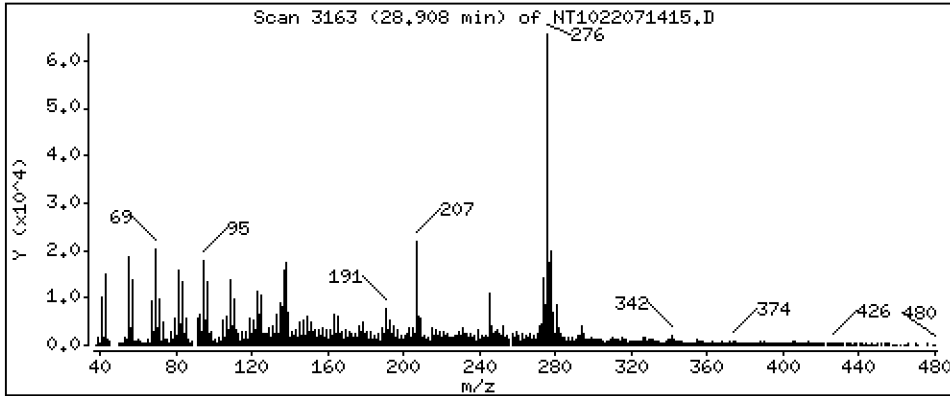
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,6891 ug/mL



Date : 14-JUL-2022 22:48

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

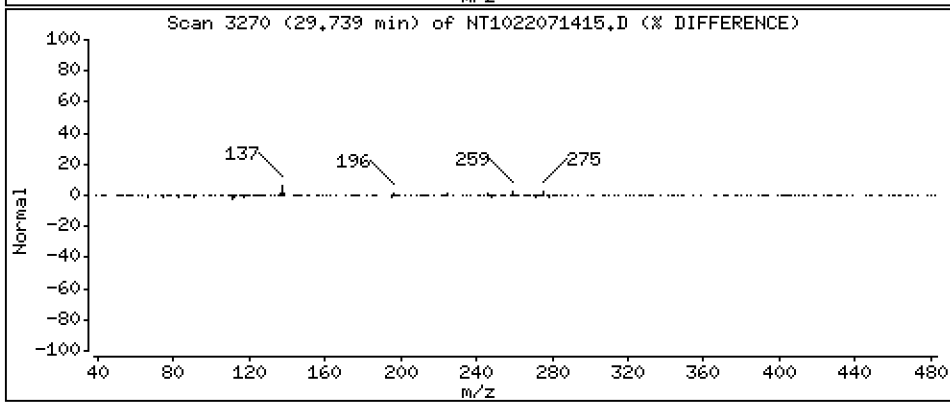
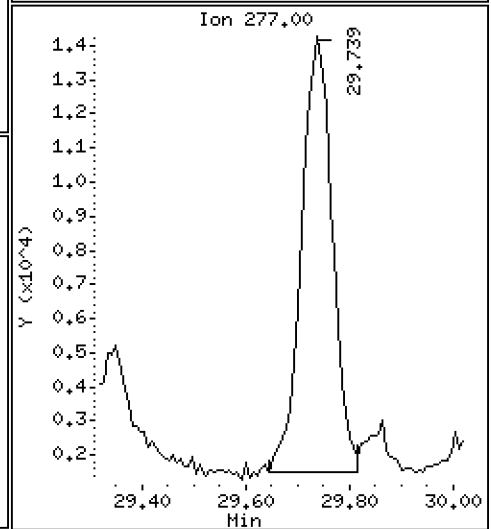
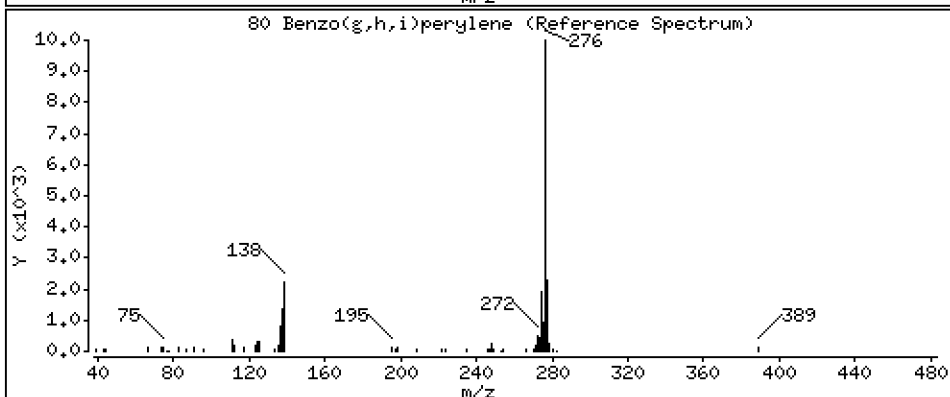
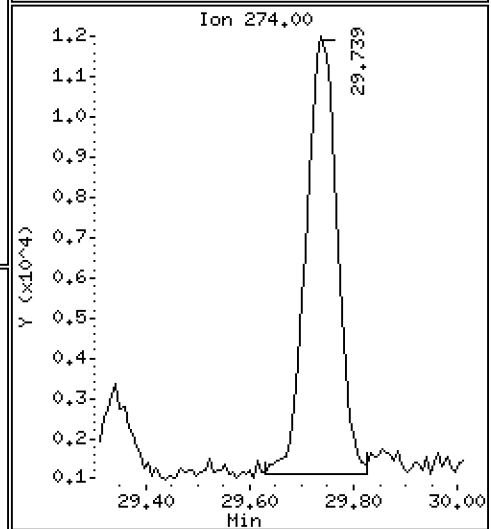
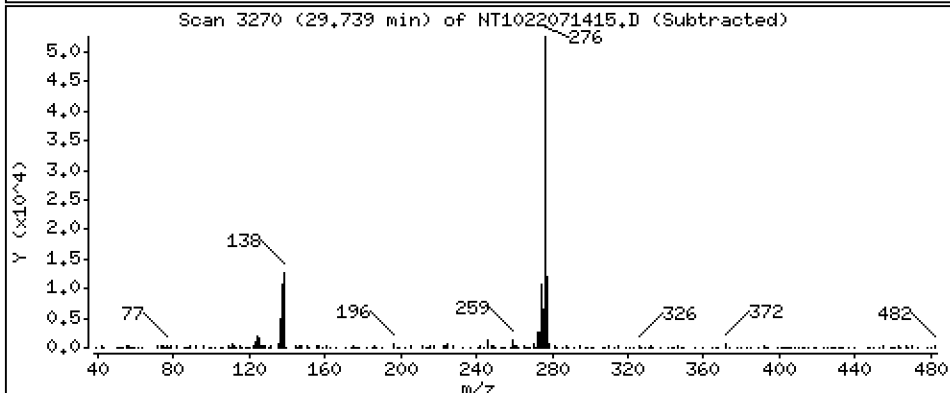
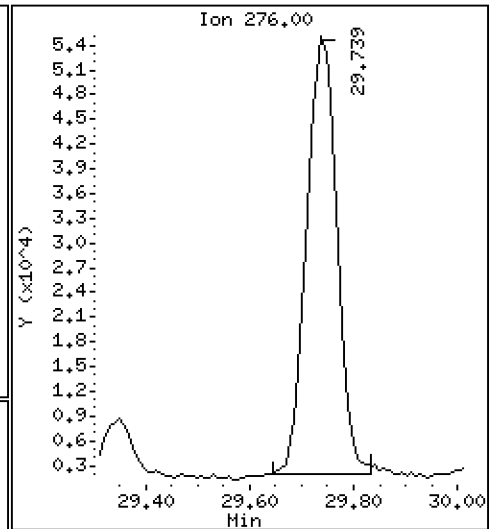
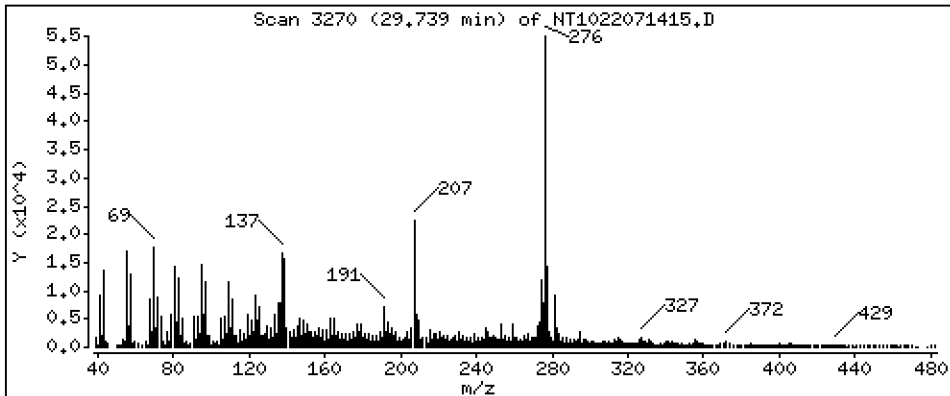
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 2,150 ug/mL



Date : 14-JUL-2022 22:48

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

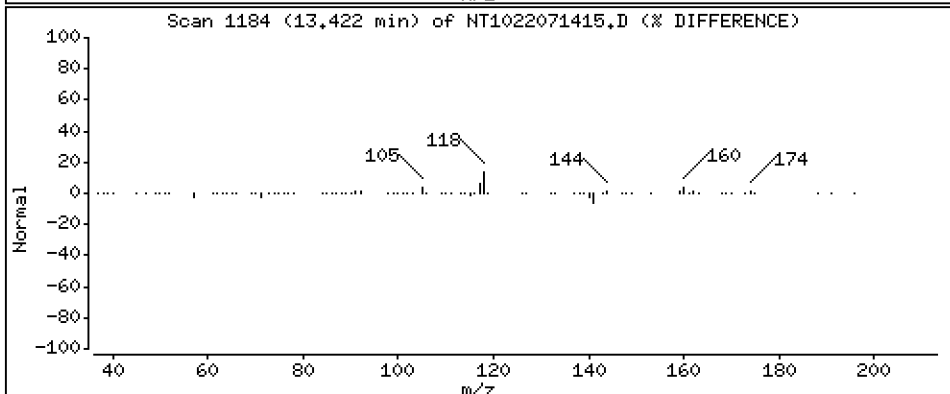
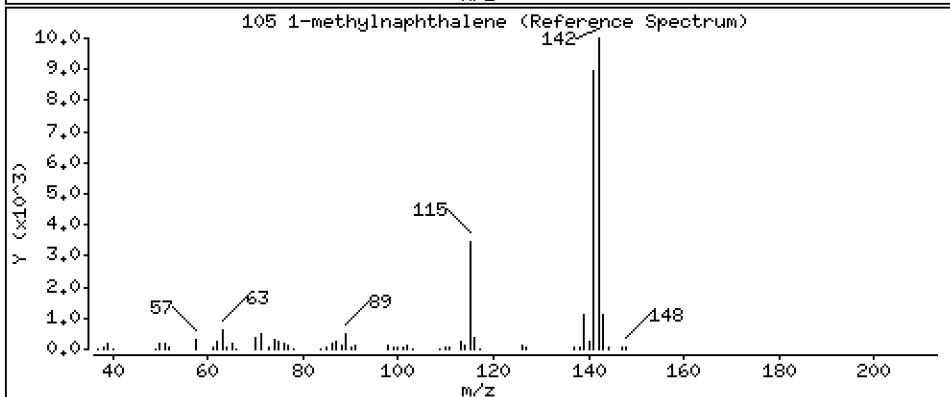
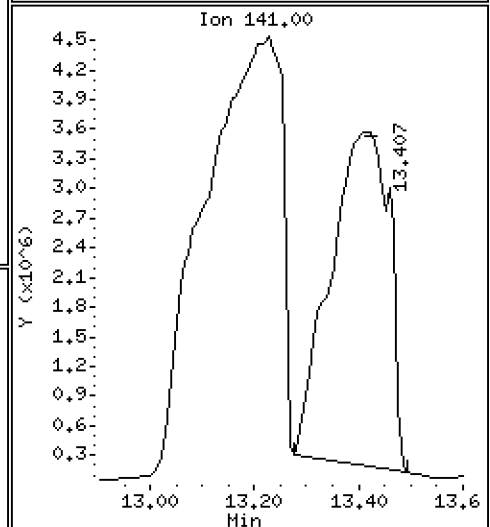
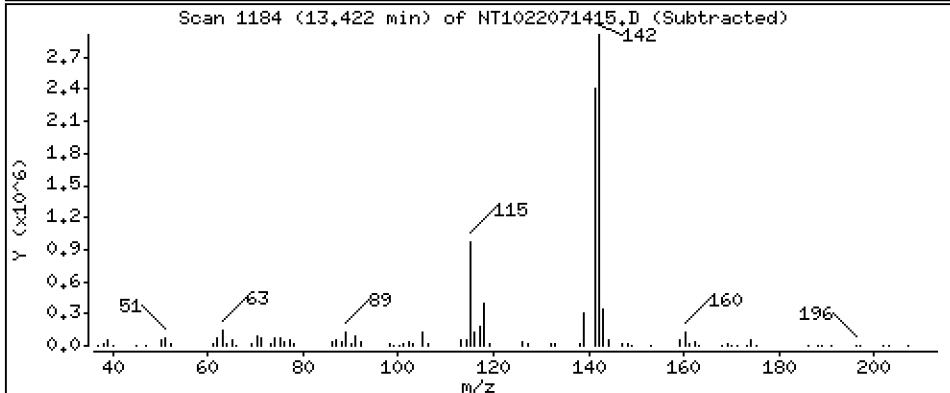
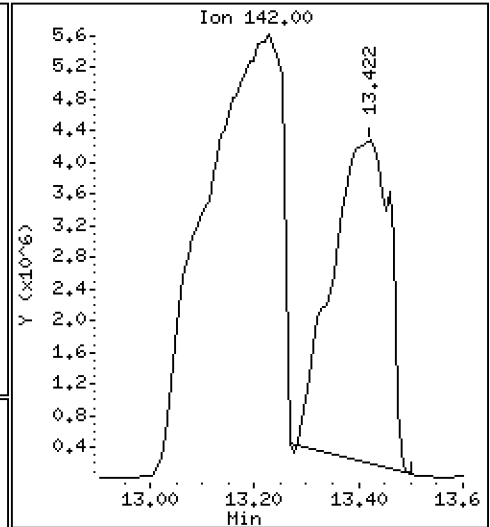
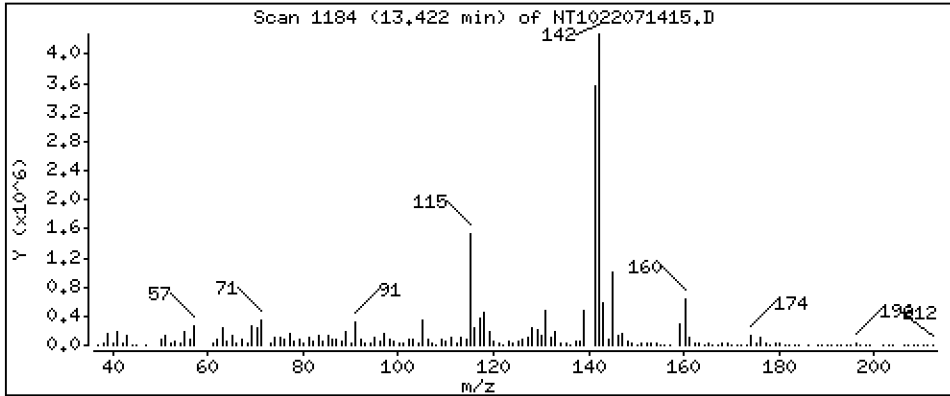
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 275,3 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09

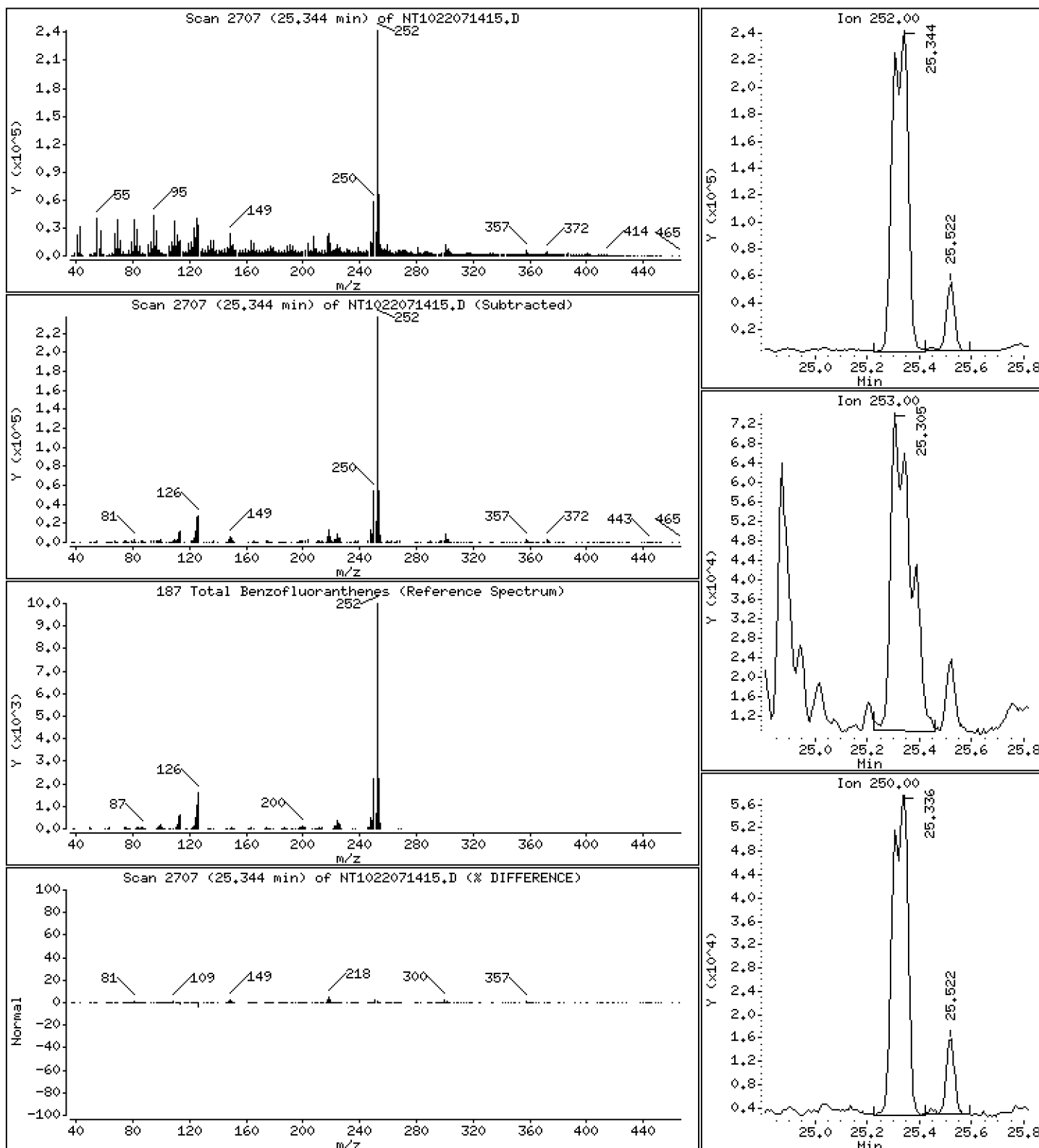
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 7,375 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071415.D
 Lab Smp Id: 22G0019-09
 Inj Date : 14-JUL-2022 22:48
 Operator : VTS
 Smp Info : 22G0019-09
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 14-Jul-2022 14:47 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.922	6.906	(0.759)	315284	4.53088	4.531
\$ 2 Phenol-d5	99		8.513	8.490	(0.933)	354529	3.43370	3.434
3 Phenol	94		Compound Not Detected.					
\$ 5 2-Chlorophenol-d4	132		8.776	8.753	(0.962)	422378	5.95709	5.957
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.124	9.101	(1.000)	190565	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.481	9.466	(1.039)	172582	3.95008	3.950 (M)
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		10.234	10.195	(0.880)	241135	4.97566	4.976
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.635	11.589	(1.000)	455452	4.00000	
28 Naphthalene	128		11.681	11.627	(1.004)	7336368	62.9383	62.94
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		13.228	13.027	(1.137)	56699287	489.426	489.4 (M)
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.948	13.809	(0.908)	342523	3.49183	3.492 (M)
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152							
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.364	15.210	(1.000)	216766	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.434	15.279	(1.005)	3068352	48.6720	48.67
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.766	15.612	(1.026)	1154586	11.5243	11.52
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		16.477	16.323	(1.072)	3475532	29.0322	29.03
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		17.009	16.870	(1.107)	38033	3.87148	3.871
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.377	18.269	(1.000)	255774	4.00000	
60 Phenanthrene	178		18.455	18.316	(1.004)	11645541	173.305	173.3
61 Anthracene	178		18.524	18.416	(1.008)	976756	13.6402	13.64
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.807	20.722	(0.889)	1795736	8.13772	8.138 (H)
65 Pyrene	202		21.225	21.147	(0.907)	2232697	11.1105	11.11
\$ 66 Terphenyl-d14	244		21.480	21.434	(0.918)	316760	3.08963	3.090
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.362	23.331	(0.999)	665223	5.34354	5.344
* 69 Chrysene-d12	240		23.393	23.362	(1.000)	293788	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.439	23.408	(1.002)	711121	7.88154	7.882
72 bis(2-Ethylhexyl)phthalate	149		23.424	23.400	(0.959)	12629	0.27761	0.2776
* 134 Di-n-octylphthalate-d4	153		24.430	24.407	(1.000)	411567	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.305	25.266	(0.969)	480754	3.34362	3.344
75 Benzo(k)fluoranthene	252		25.344	25.313	(0.971)	593336	4.29149	4.291 (M)
76 Benzo(a)pyrene	252		25.986	25.948	(0.996)	634560	5.39234	5.392
* 77 Perylene-d12	264		26.102	26.064	(1.000)	317482	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.907	28.845	(1.107)	245240	1.95183	1.952
79 Dibenzo(a,h)anthracene	278		28.907	28.853	(1.107)	66282	0.68910	0.6891
80 Benzo(g,h,i)perylene	276		29.738	29.661	(1.139)	215938	2.14997	2.150
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.422	13.252	(1.154)	31336719	275.328	275.3 (M)
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.344	25.313	(0.971)	988745	7.37532	7.375
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071415.D Calibration Time: 14:12
 Lab Smp Id: 22G0019-09
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	190565	-2.69
27 Naphthalene-d8	626038	313019	1252076	455452	-27.25
42 Acenaphthene-d10	366612	183306	733224	216766	-40.87
59 Phenanthrene-d10	635137	317569	1270274	255774	-59.73
69 Chrysene-d12	270778	135389	541556	293788	8.50
134 Di-n-octylphthala	507031	253516	1014062	411567	-18.83
77 Perylene-d12	170107	85054	340214	317482	86.64

<-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.12	0.26
27 Naphthalene-d8	11.59	11.09	12.09	11.64	0.40
42 Acenaphthene-d10	15.21	14.71	15.71	15.36	1.02
59 Phenanthrene-d10	18.27	17.77	18.77	18.38	0.59
69 Chrysene-d12	23.36	22.86	23.86	23.39	0.13
134 Di-n-octylphthala	24.41	23.91	24.91	24.43	0.10
77 Perylene-d12	26.06	25.56	26.56	26.10	0.15

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

REVIEW SUMMARY FOR FILE - NT1022071415.D

Lab ID: 22G0019-09
nt10.i, ABN.m, 14-JUL-2022 22:48

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.137	1.124	0.0128	2-Methylnaphthalene
1.154	1.144	0.0101	1-methylnaphthalene

RRT check based on Ccal File: NT1022071402.D

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

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

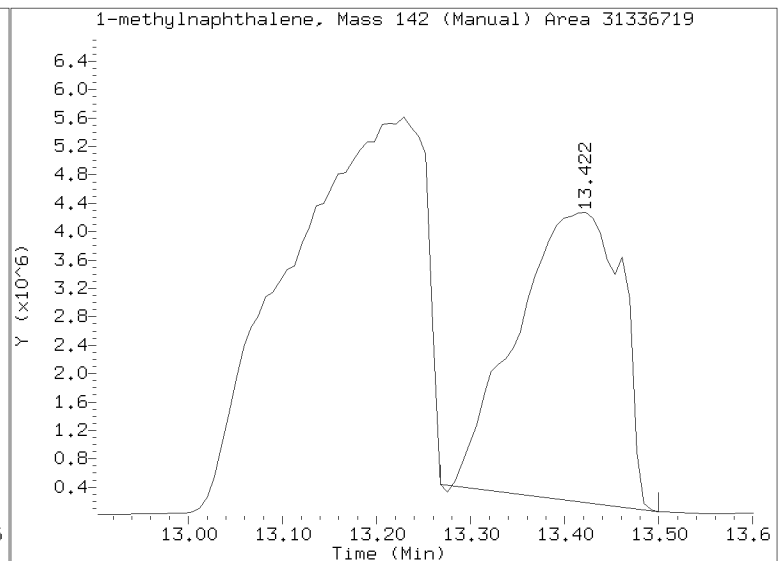
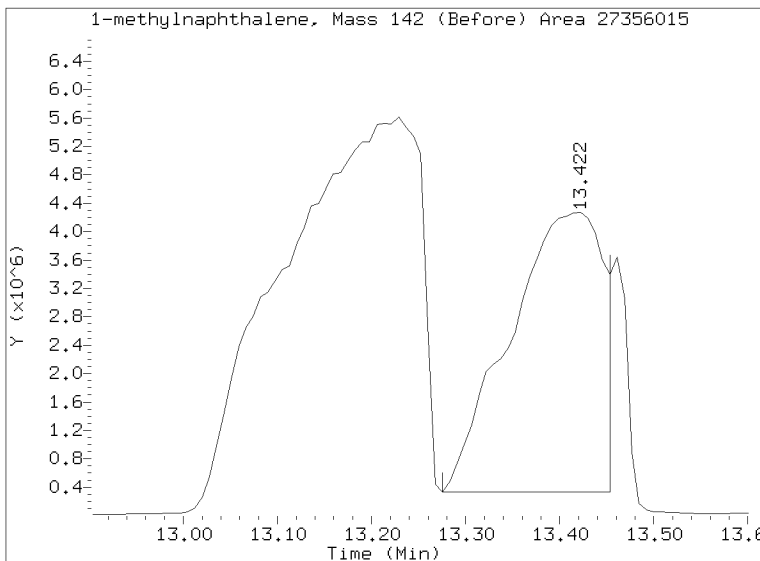
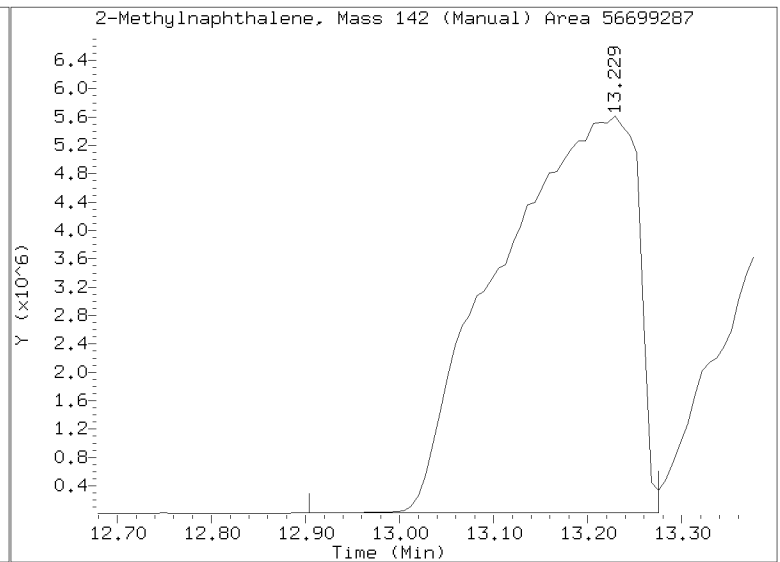
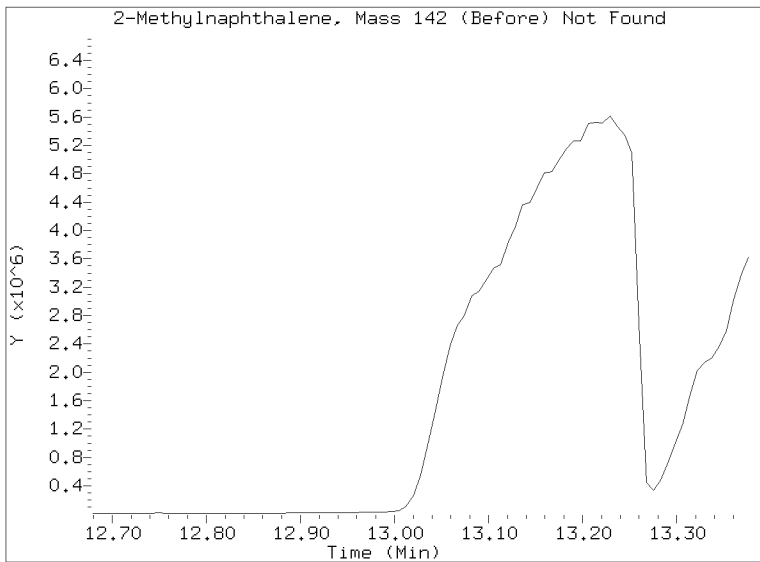
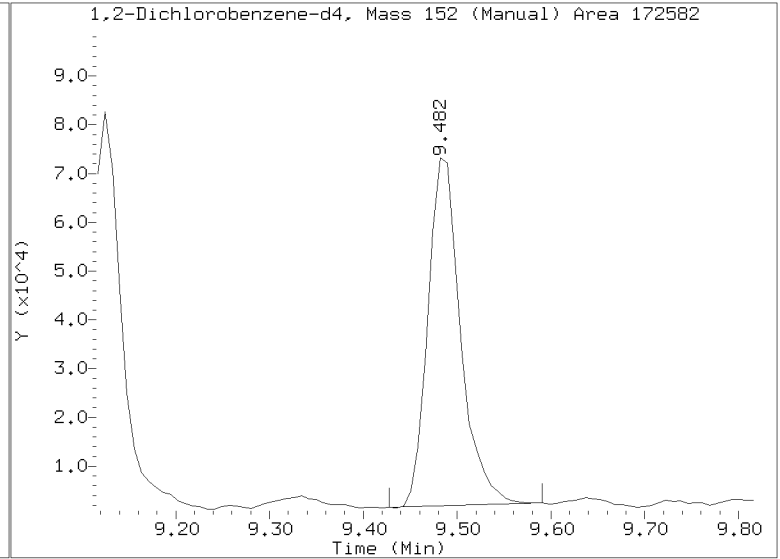
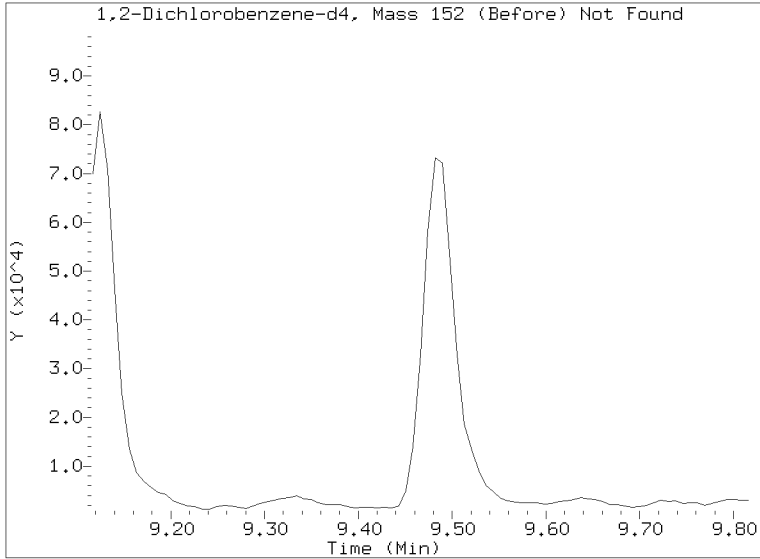
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071415.D

Injection Date: 14-JUL-2022 22:48

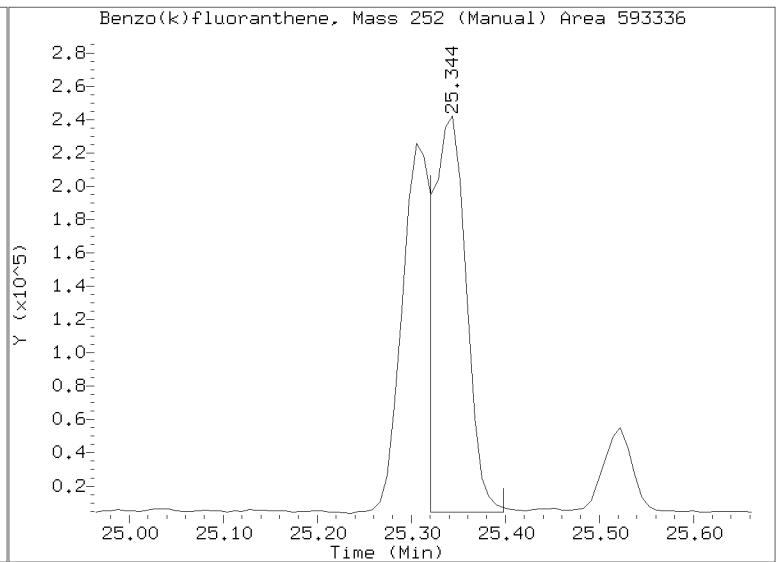
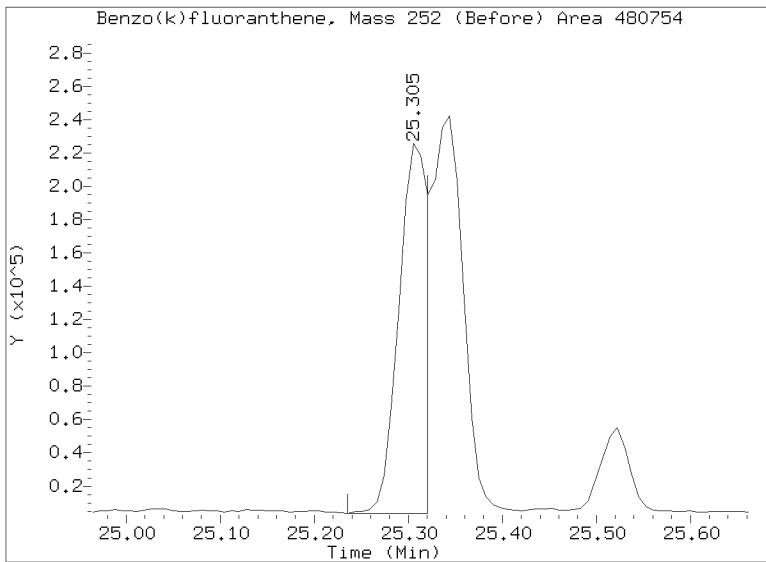
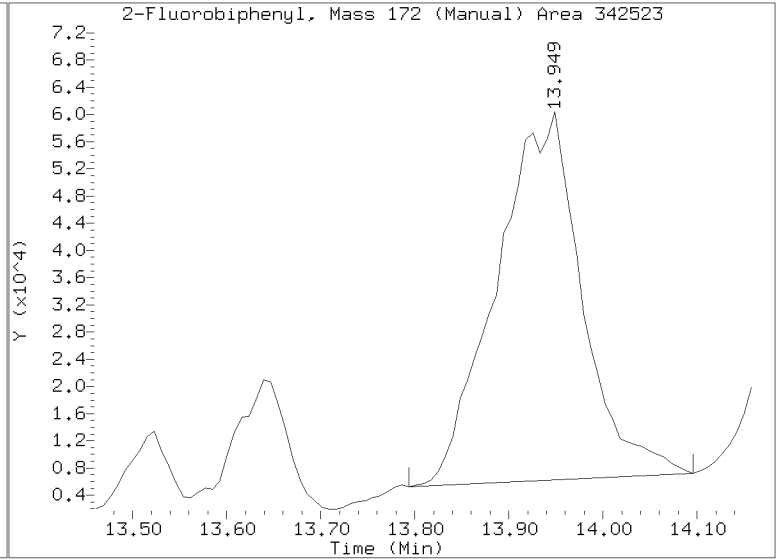
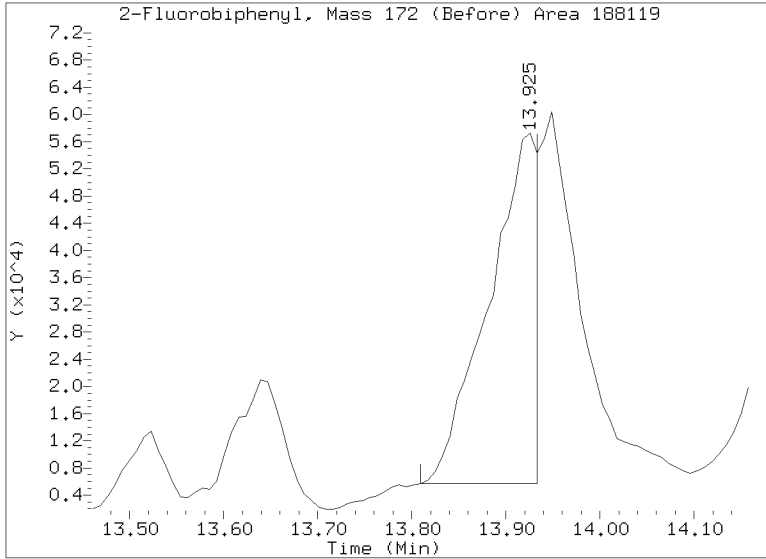
Lab ID:22G0019-09 Client ID:

Report Date: 07/19/2022 12:56



Quant Ion Manual Peak Adjustment Report

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Injection Date: 14-JUL-2022 22:48
Lab ID:22G0019-09 Client ID:
Report Date: 07/19/2022 12:56





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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-09RE1 A

SDG: 22G0019

Sampled: 06/29/22 11:35

Prepared: 07/07/22 10:01

File ID: NT1022071516.D

% Solids: 78.20

Preparation: EPA 3546 (Microwave)

Analyzed: 07/15/22 21:57

Batch: BKG0069

Sequence: SKG0154

Initial/Final: 12.79 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	50	4410	D	212	1000
91-57-6	2-Methylnaphthalene	50	131000	D, E	225	1000
83-32-9	Acenaphthene	50	7420	D	261	1000
87-86-5	Pentachlorophenol	50	1560	U	1560	5000
85-01-8	Phenanthrene	50	19400	D	436	1000
206-44-0	Fluoranthene	50	2230	Q, D	304	1000
56-55-3	Benzo(a)anthracene	50	614	J, D	298	1000
218-01-9	Chrysene	50	788	J, D	303	1000
205-99-2	Benzo(b)fluoranthene	50	351	U	351	1000
207-08-9	Benzo(k)fluoranthene	50	470	J, D	250	1000
50-32-8	Benzo(a)pyrene	50	533	J, D	211	1000
193-39-5	Indeno(1,2,3-cd)pyrene	50	732	U	732	1000
53-70-3	Dibenzo(a,h)anthracene	50	861	U	861	1000
90-12-0	1-Methylnaphthalene	50	75300	D	263	1000

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.87			27 - 120	D1
Phenol-d5	749.87			29 - 120	D1
2-Chlorophenol-d4	749.87			31 - 120	D1
1,2-Dichlorobenzene-d4	499.91			32 - 120	D1
Nitrobenzene-d5	499.91			30 - 120	D1
2-Fluorobiphenyl	499.91			35 - 120	D1
2,4,6-Tribromophenol	749.87			24 - 134	D1
p-Terphenyl-d14	499.91			37 - 120	D1

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Date : 15-JUL-2022 21:57

Client ID:

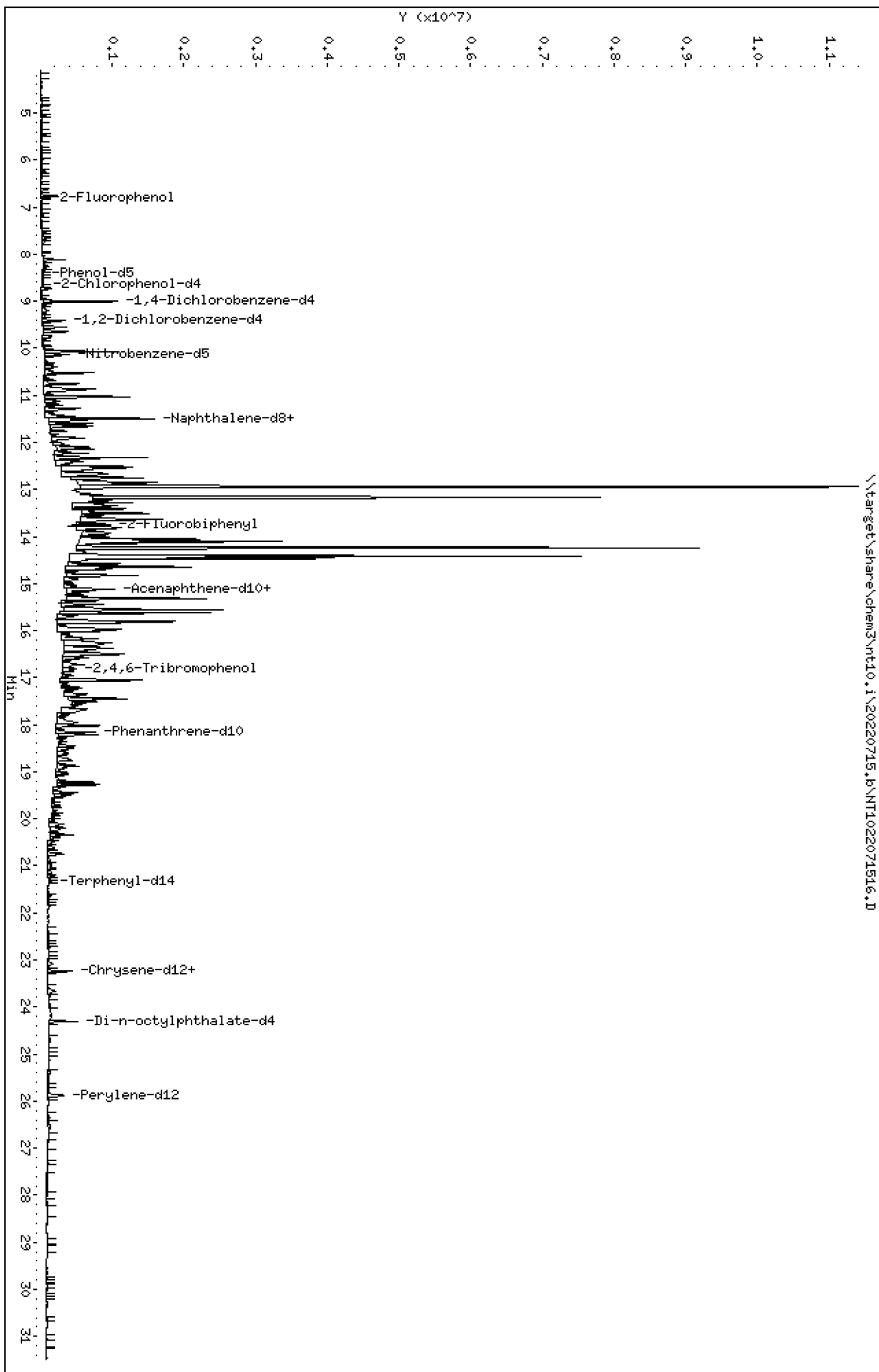
Sample Info: 22C0019-09REL1.50

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

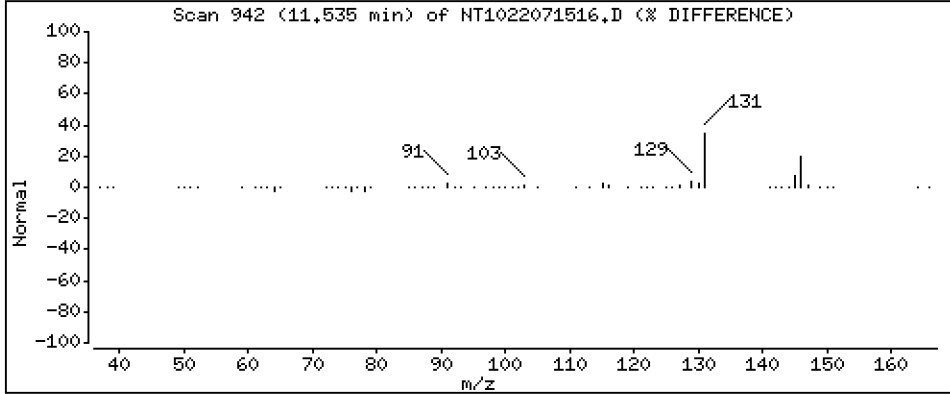
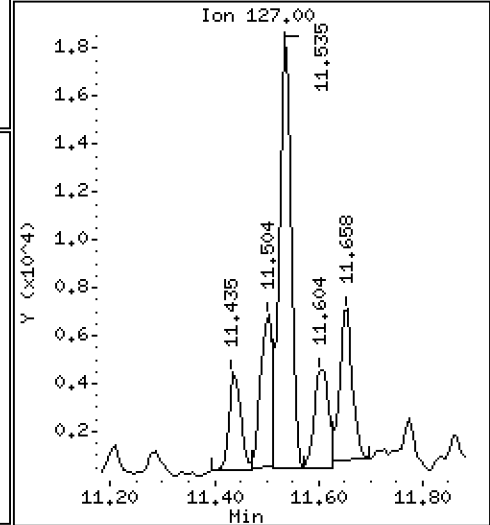
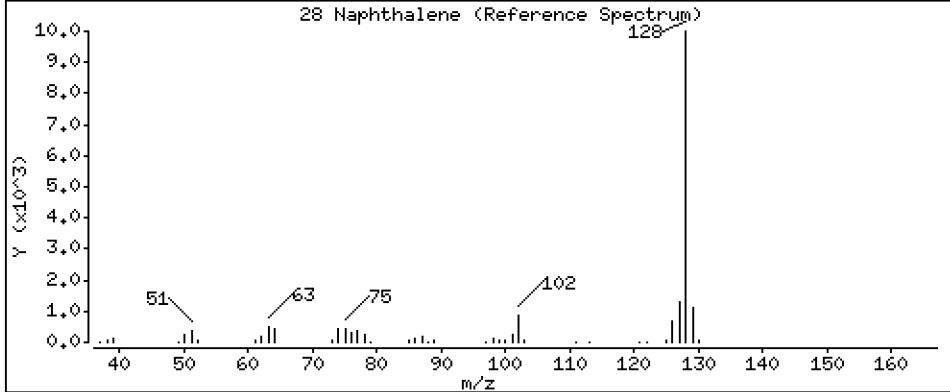
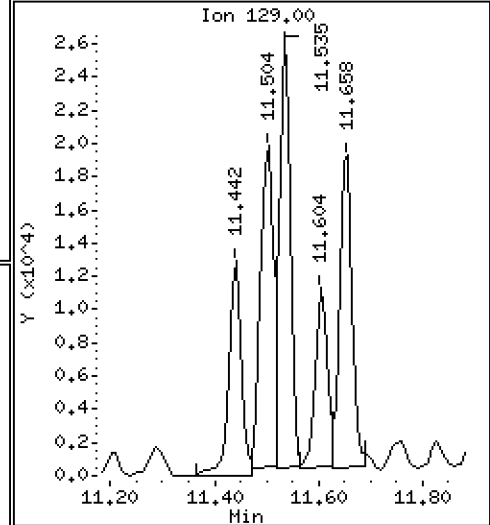
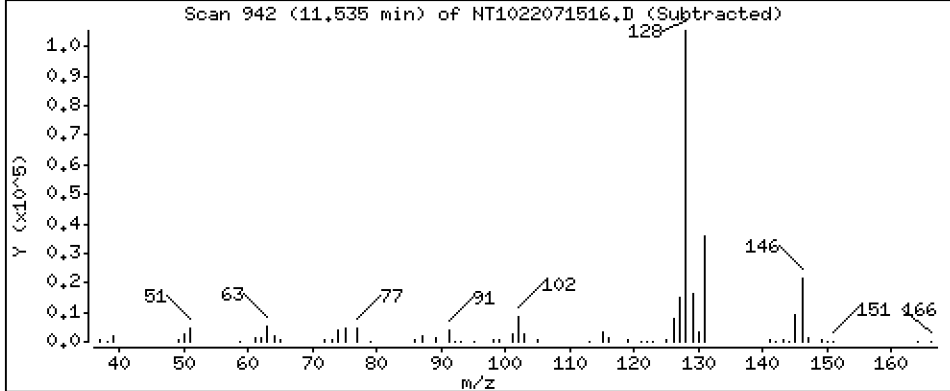
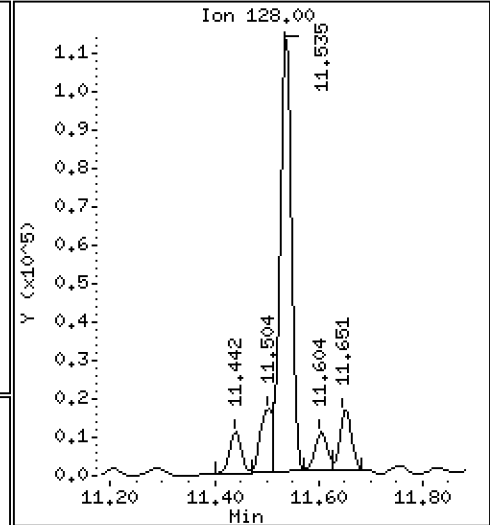
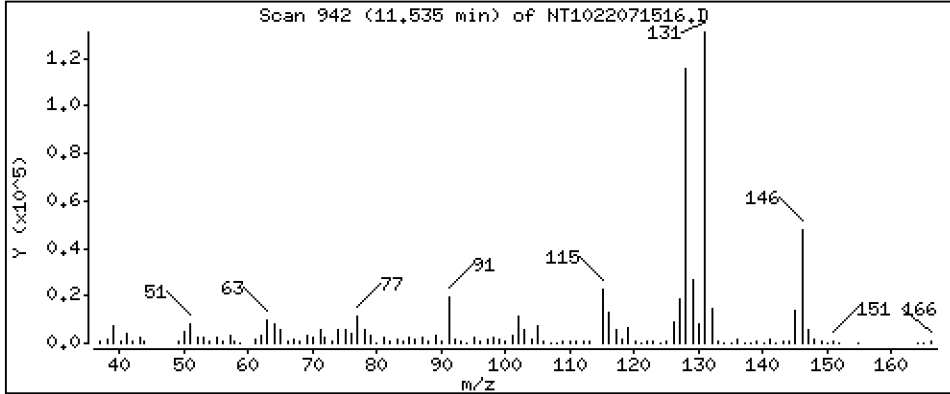
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 44,14 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

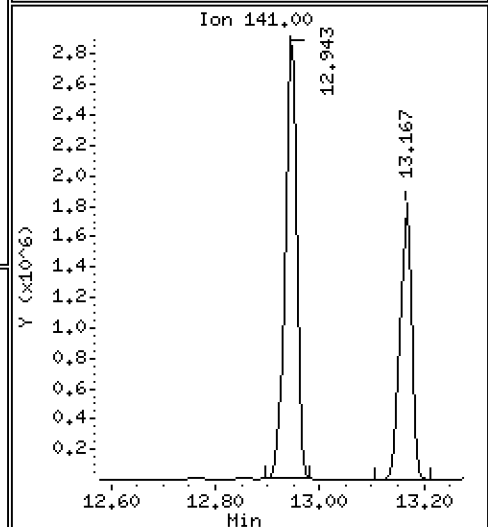
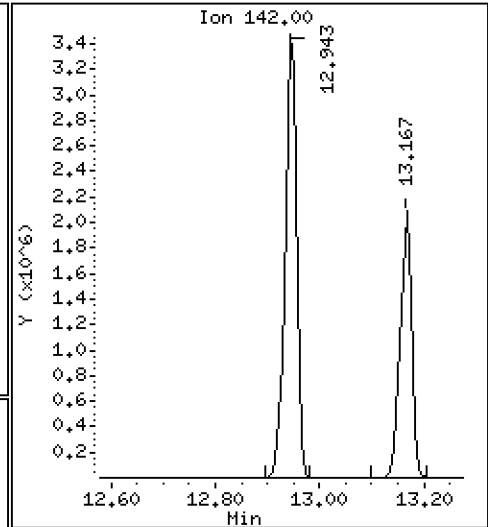
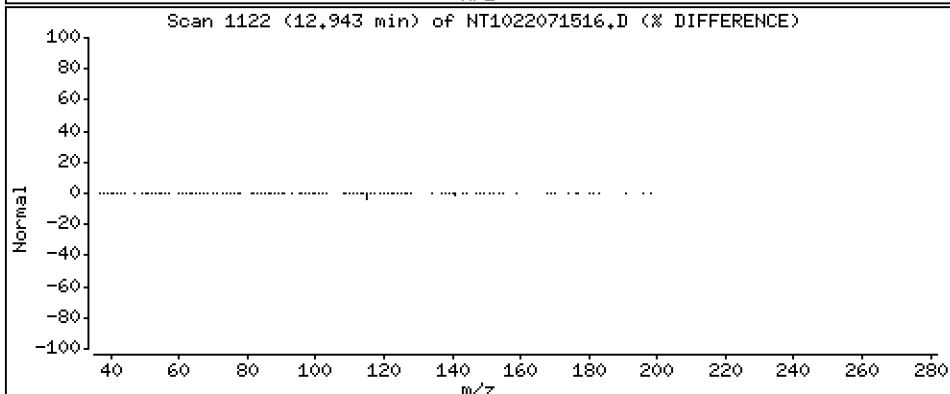
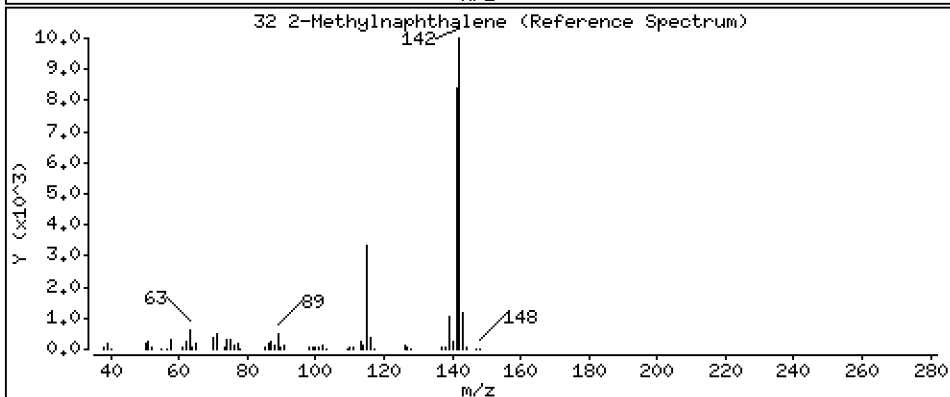
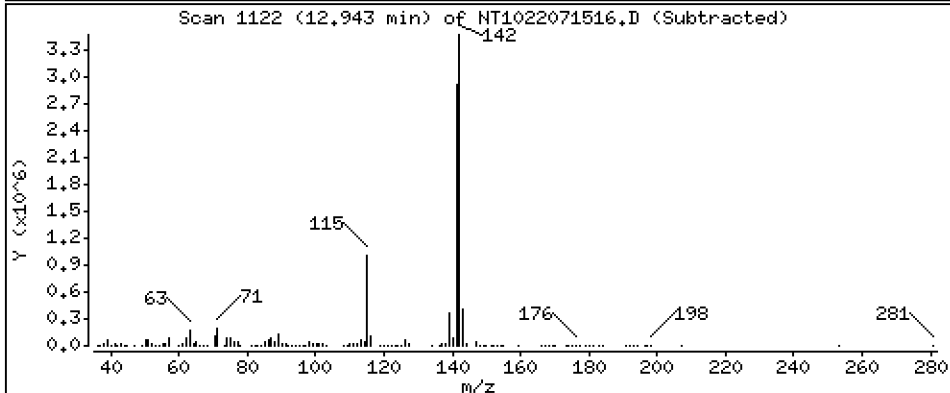
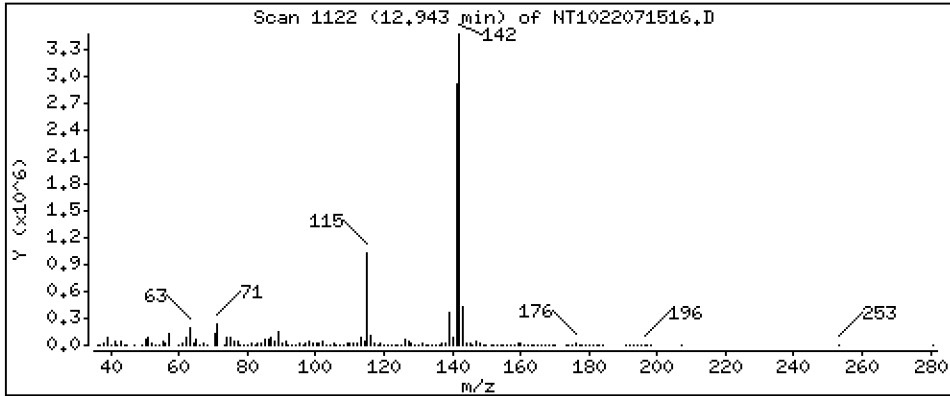
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 1315 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

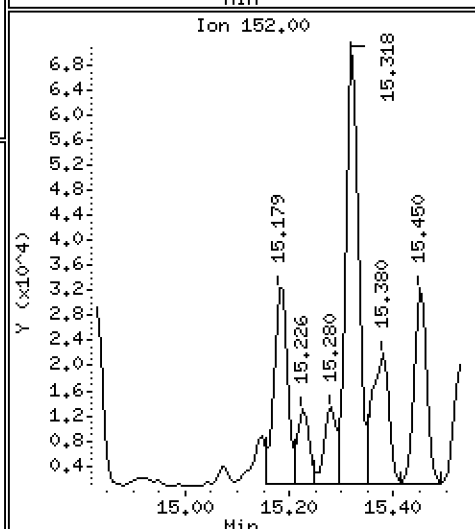
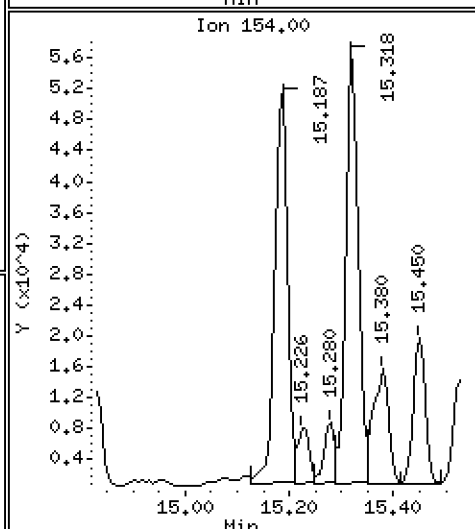
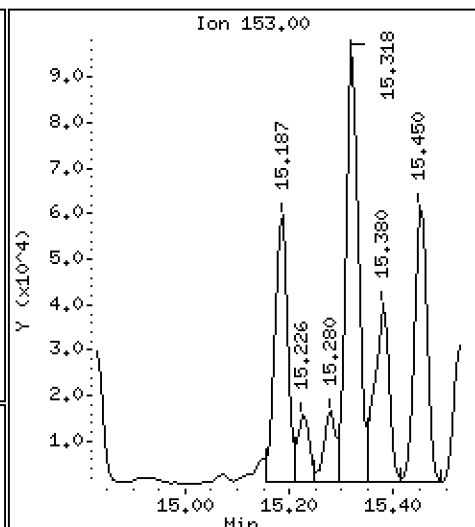
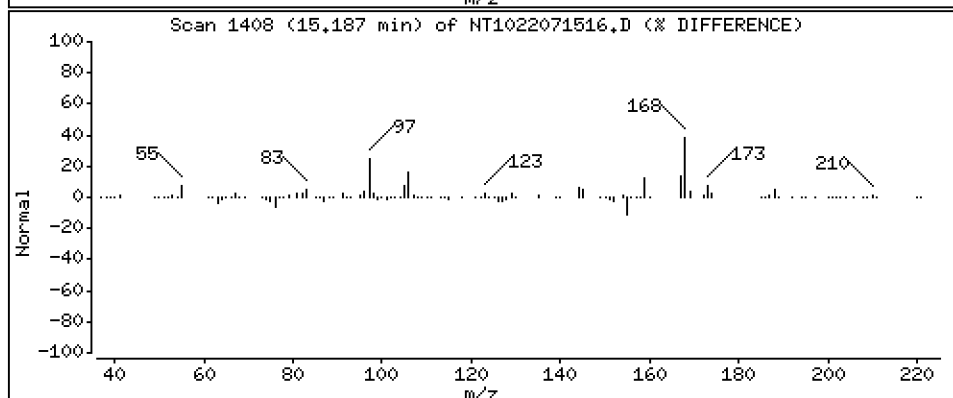
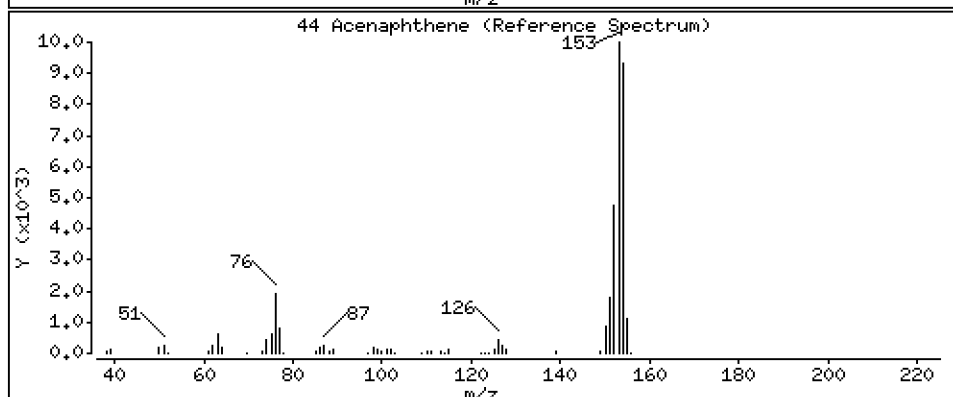
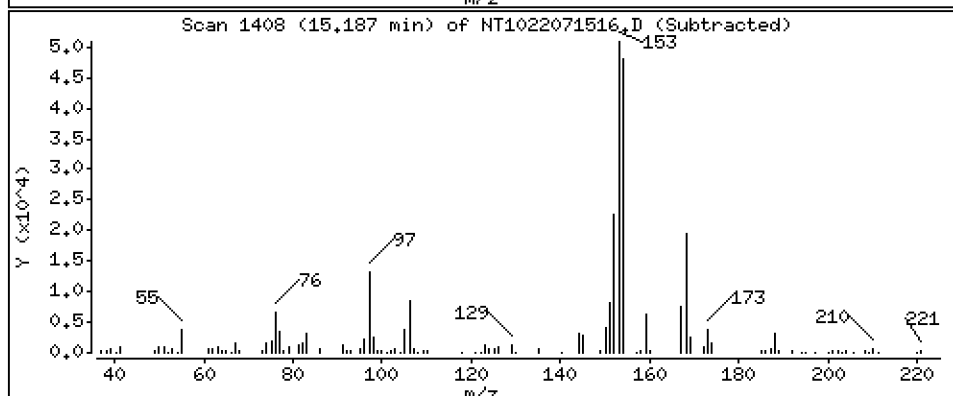
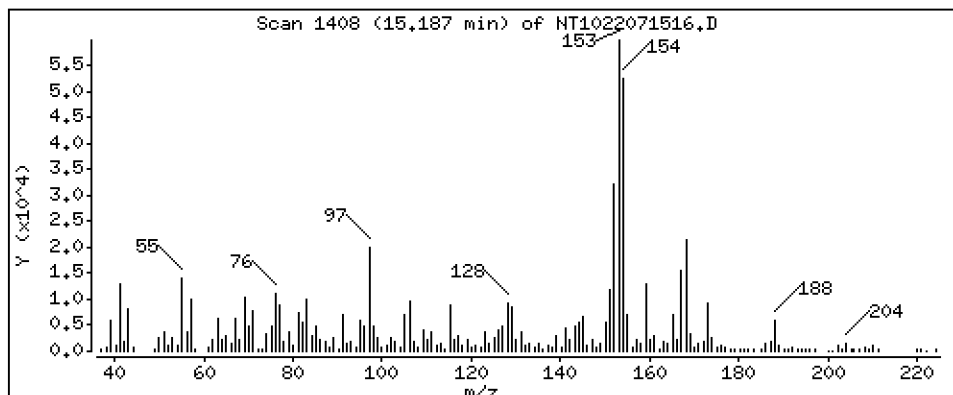
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 74,17 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

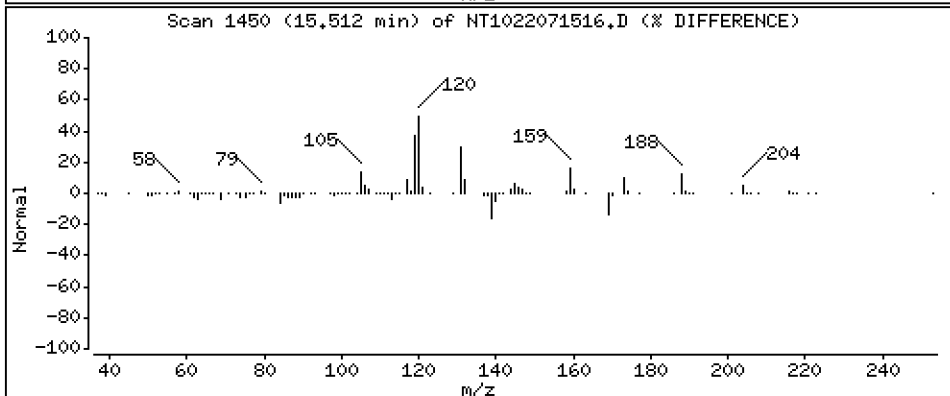
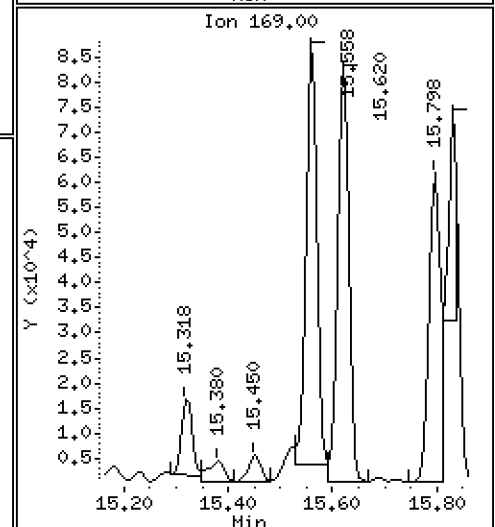
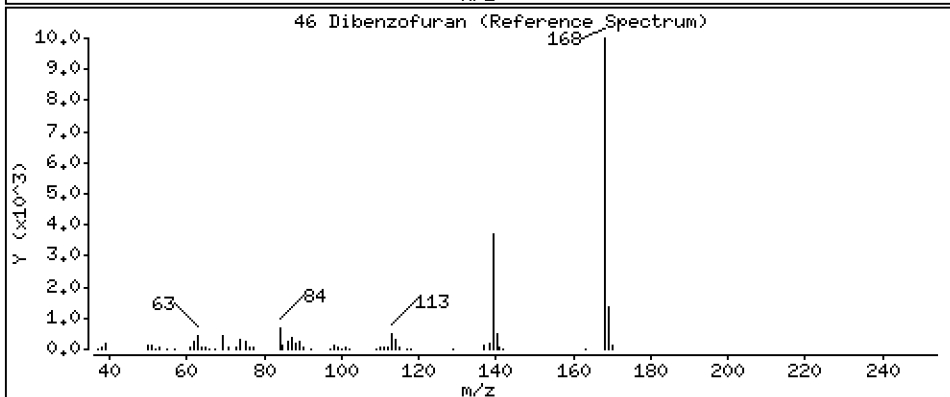
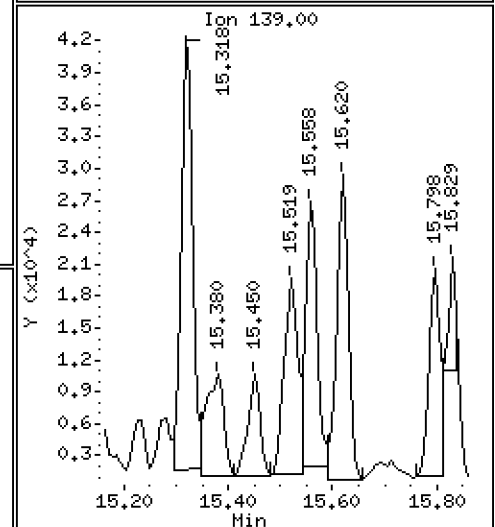
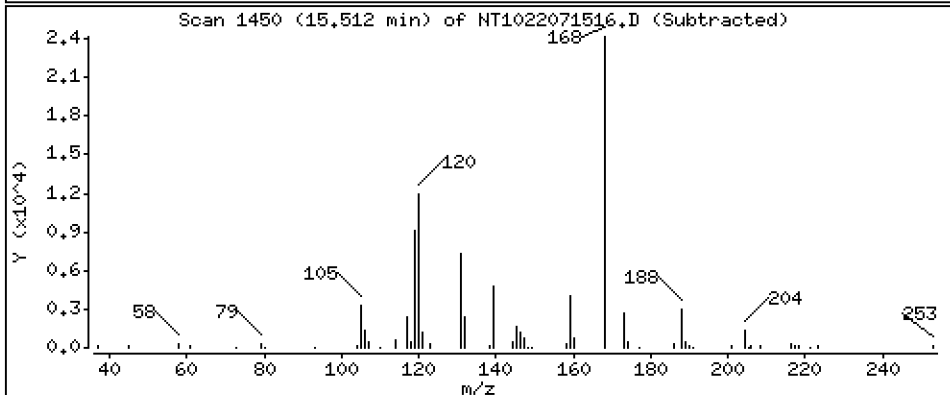
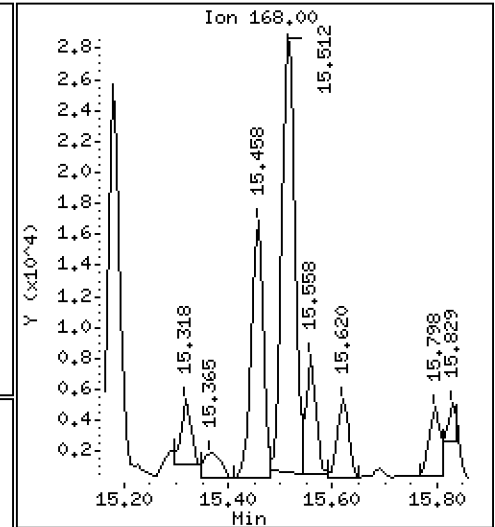
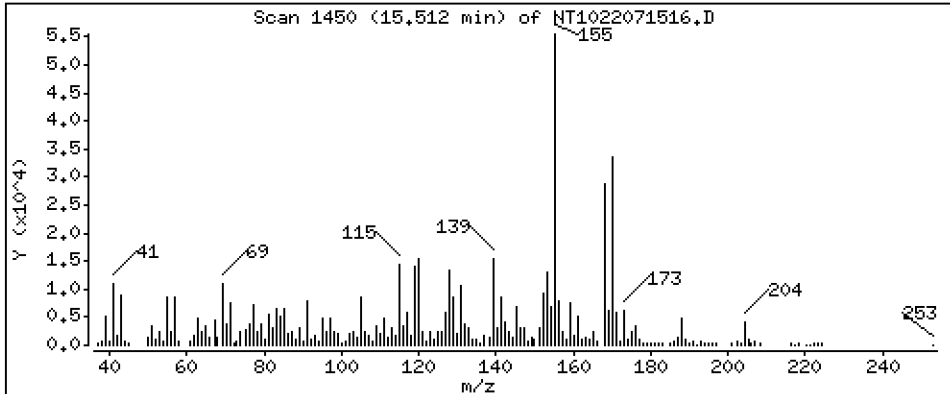
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 22,57 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

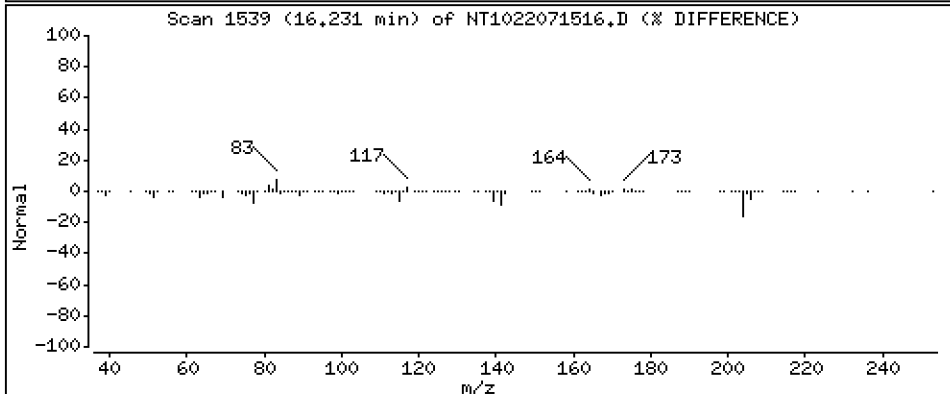
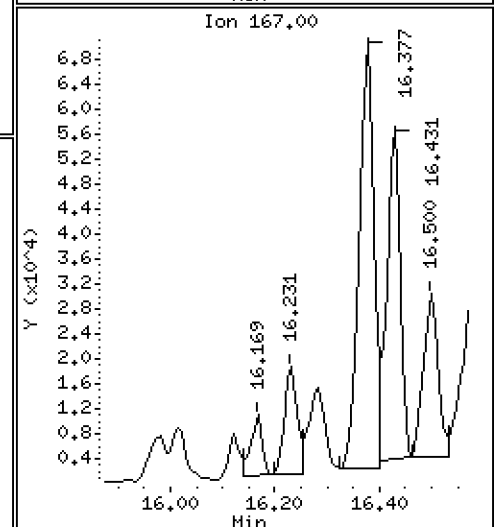
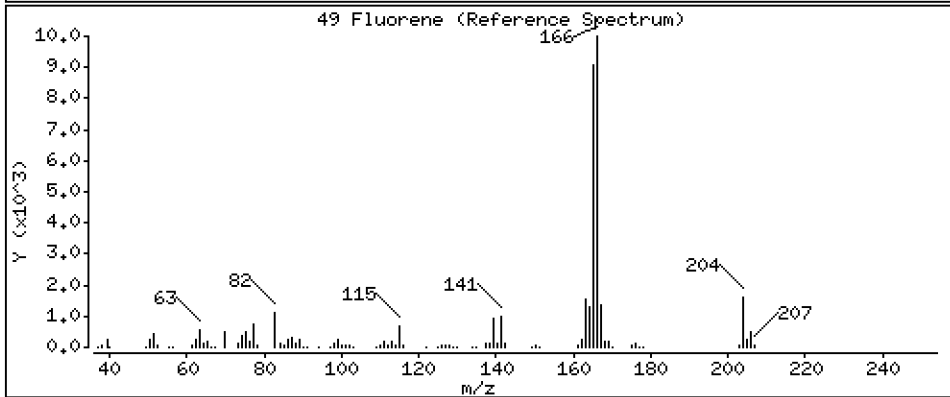
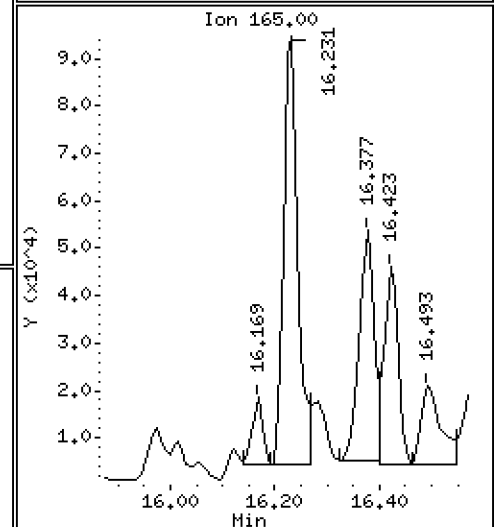
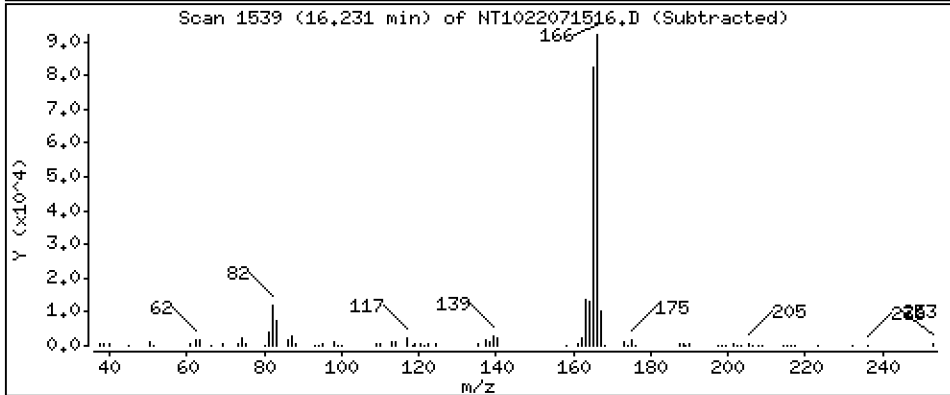
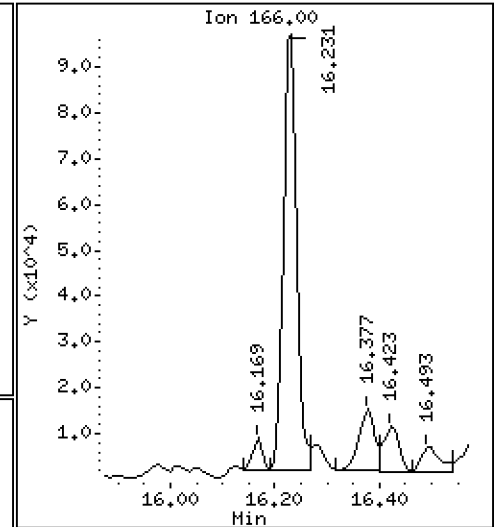
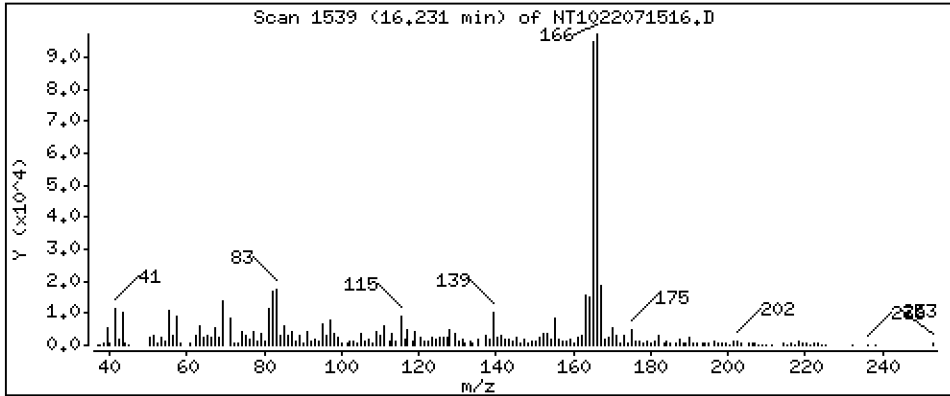
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 68,10 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

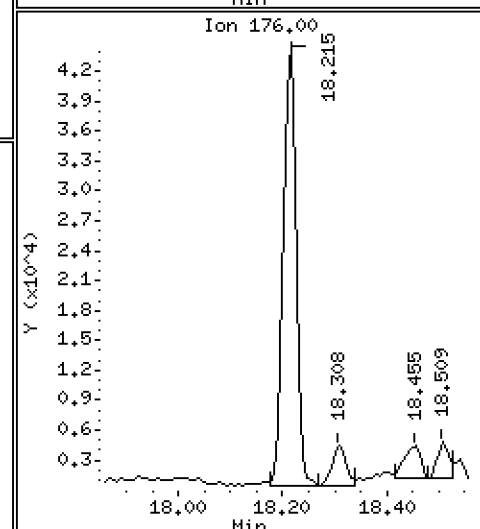
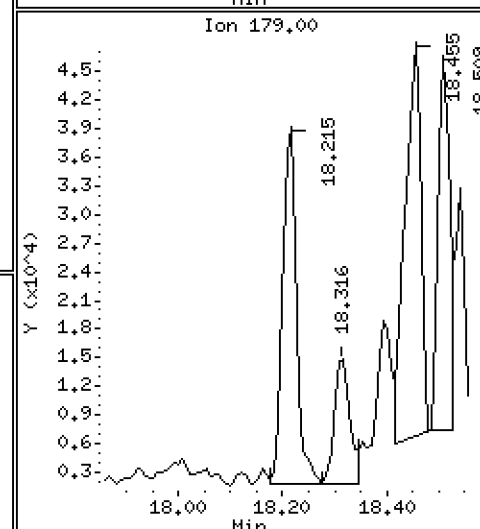
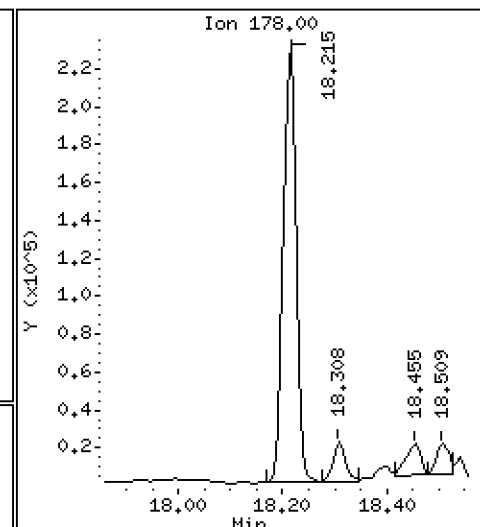
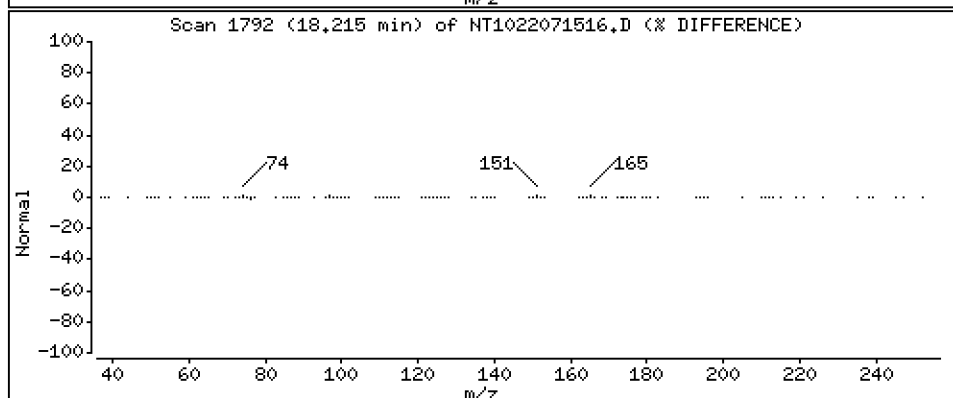
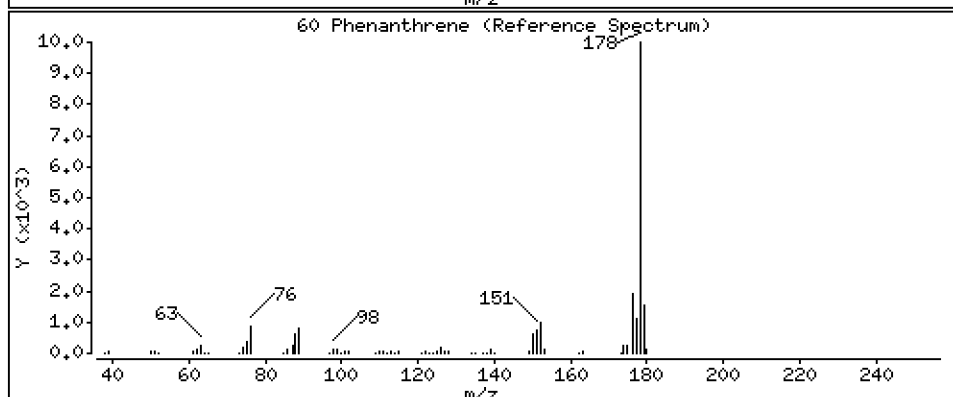
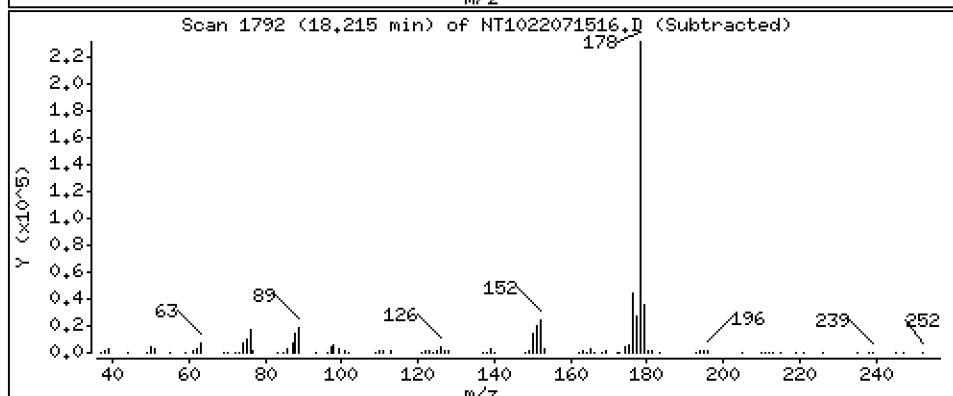
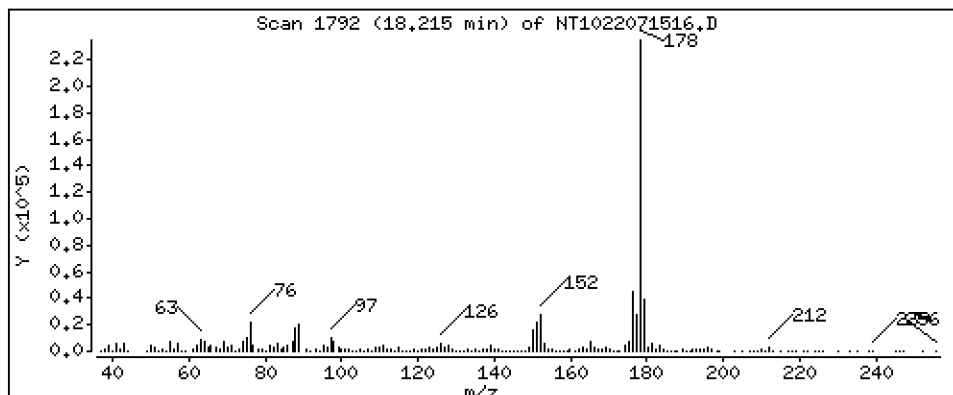
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 194.4 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

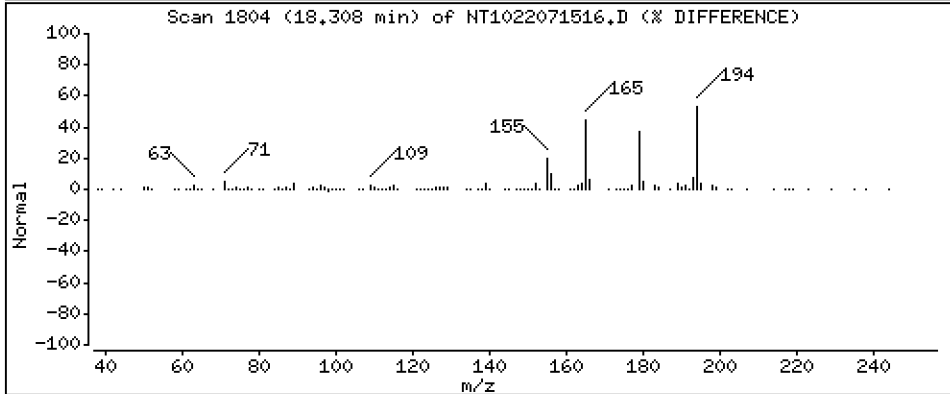
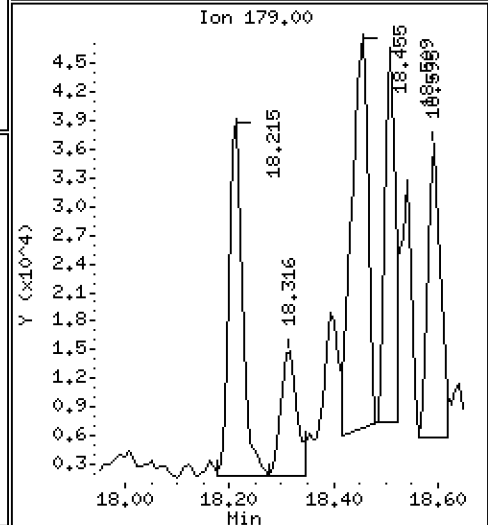
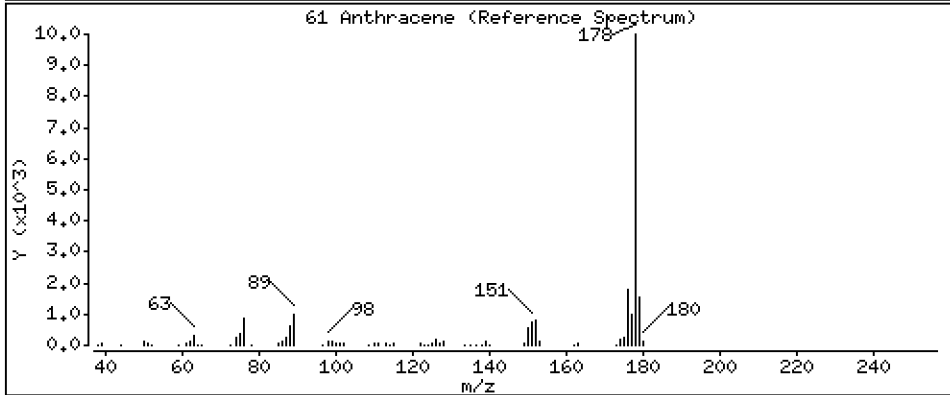
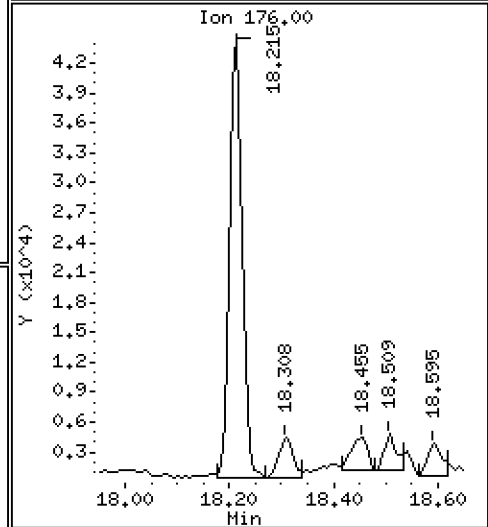
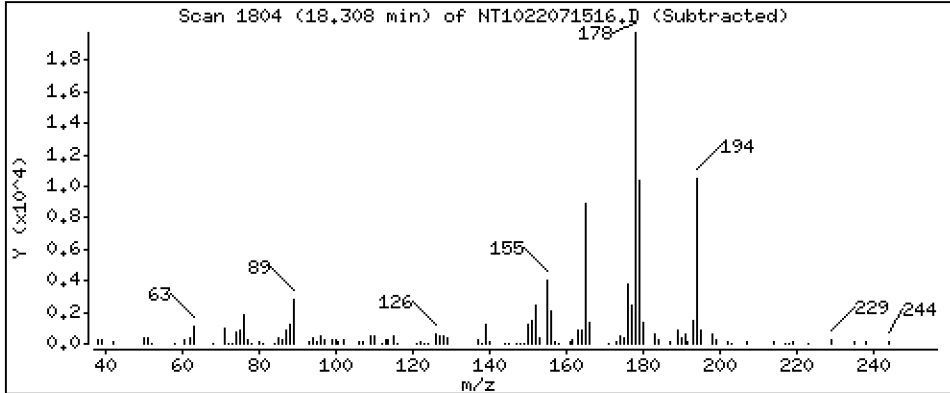
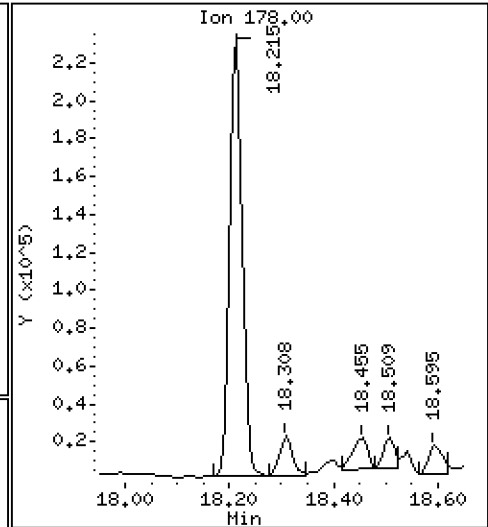
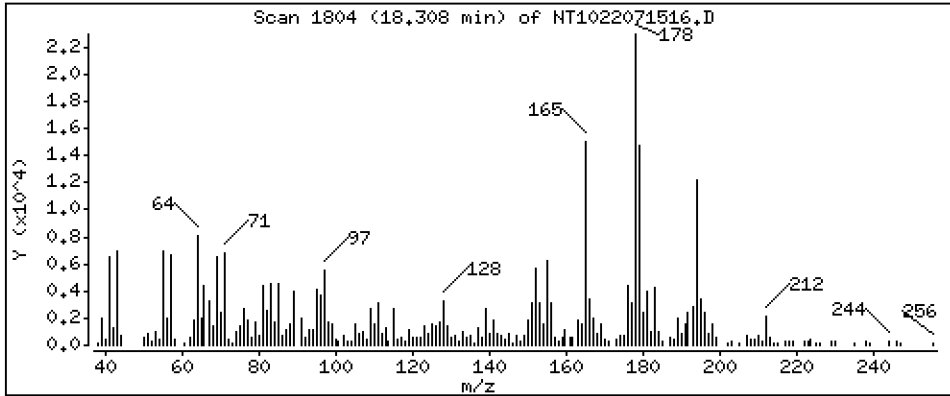
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 16,57 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

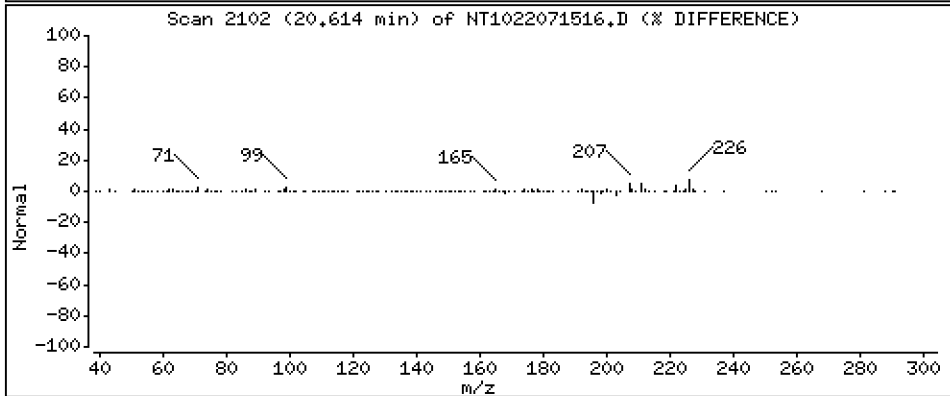
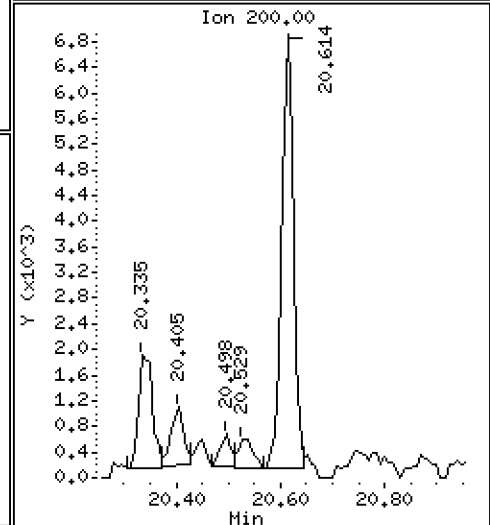
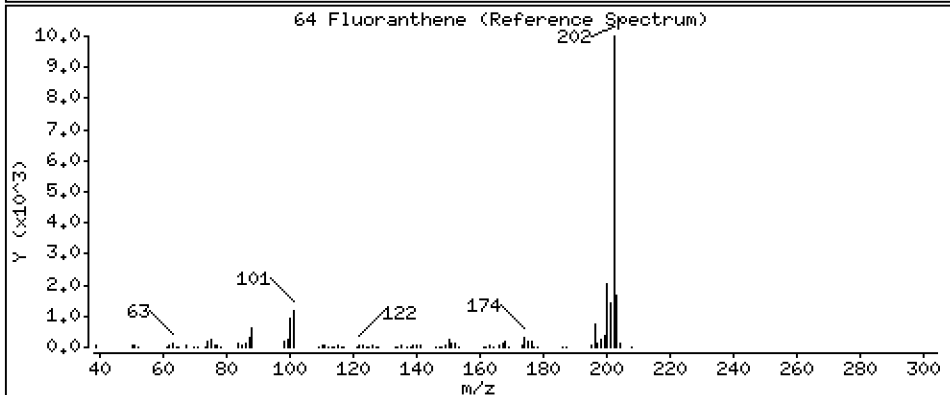
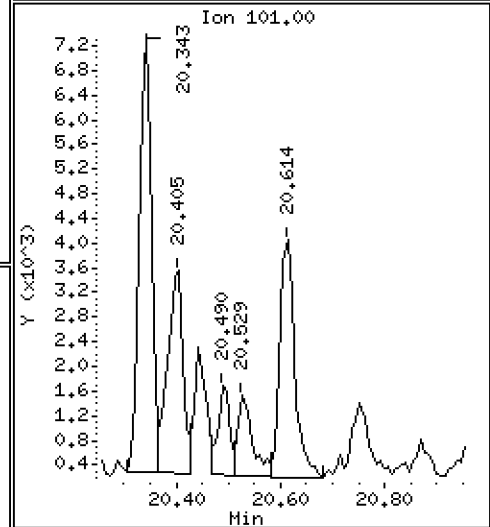
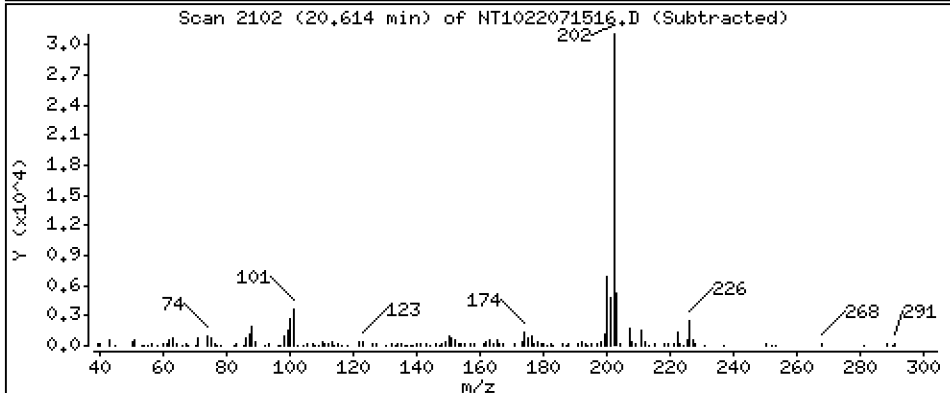
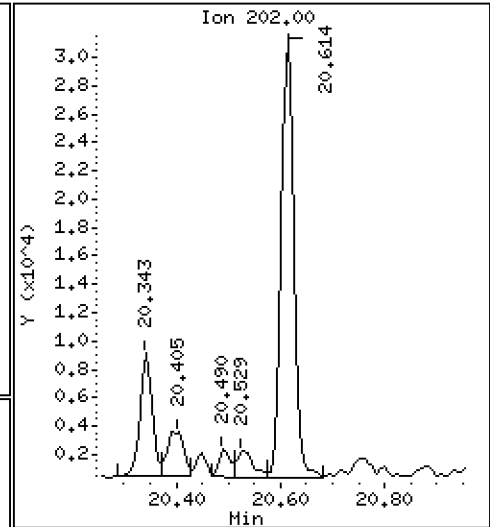
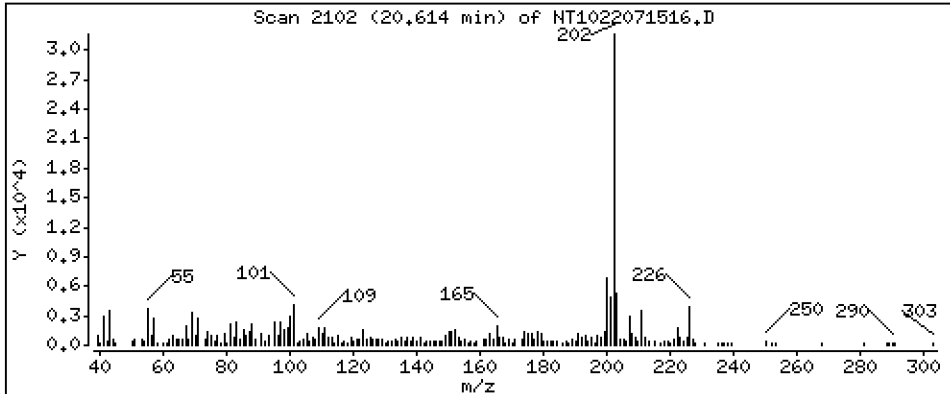
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 22,35 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

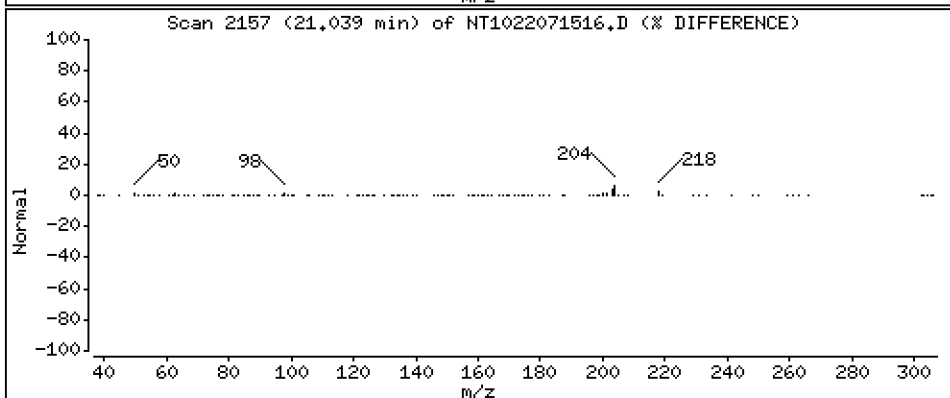
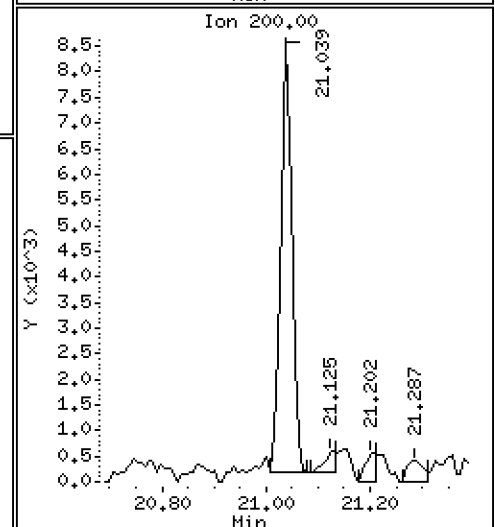
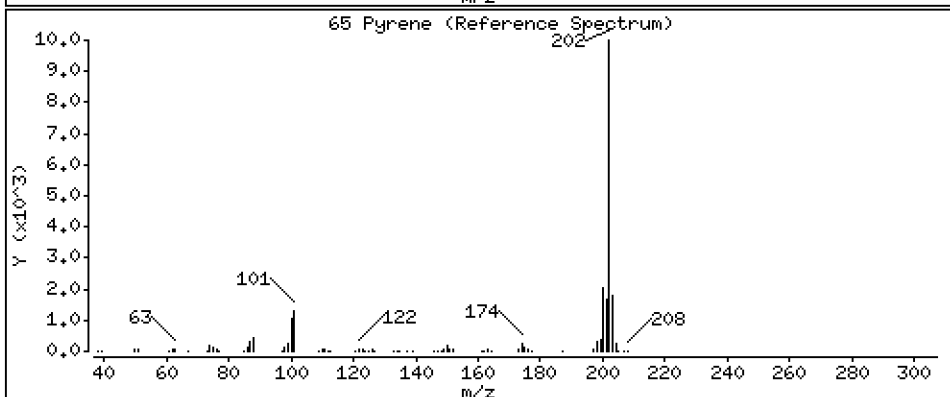
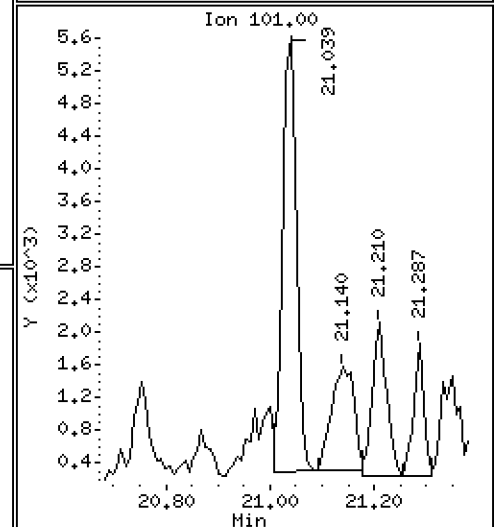
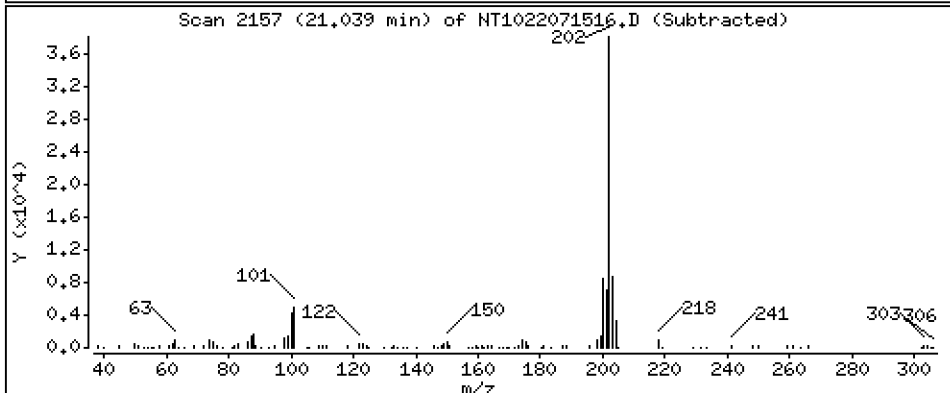
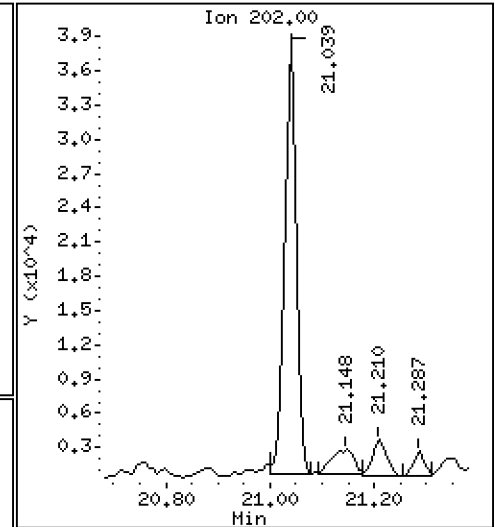
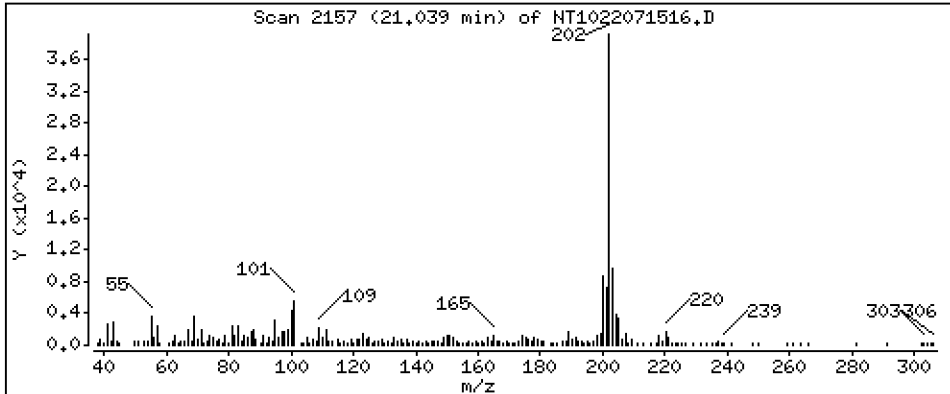
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 28,22 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

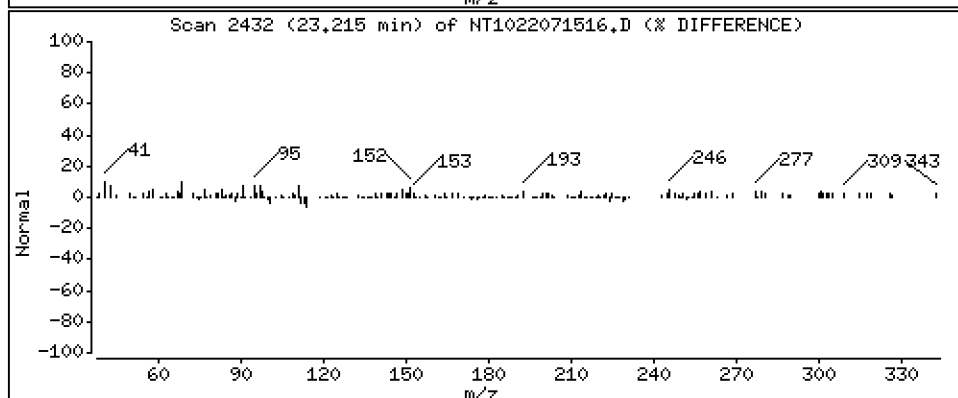
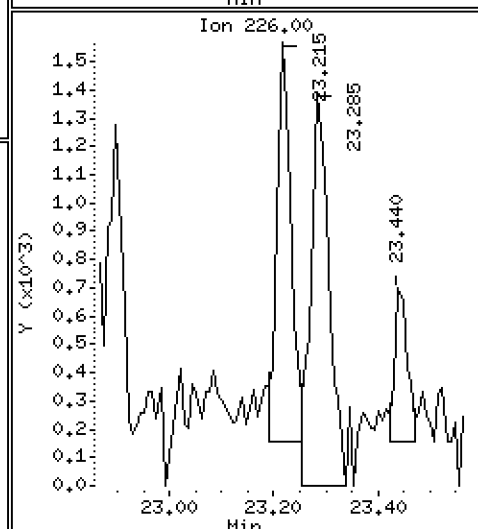
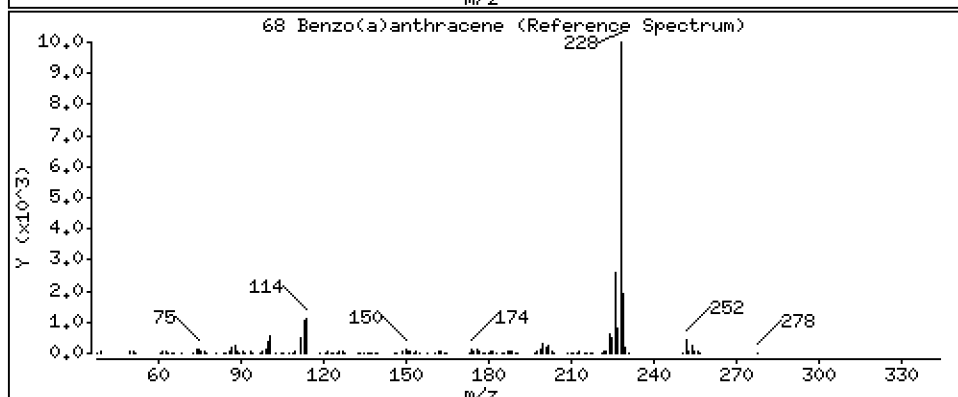
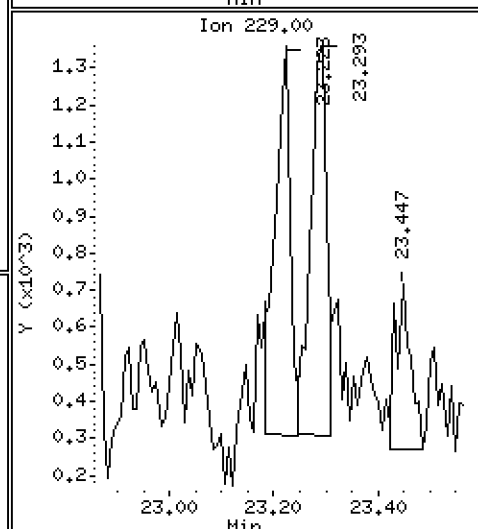
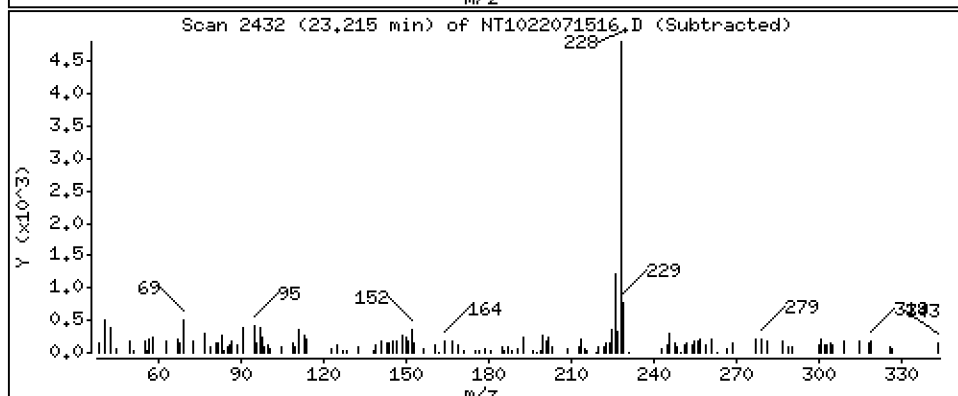
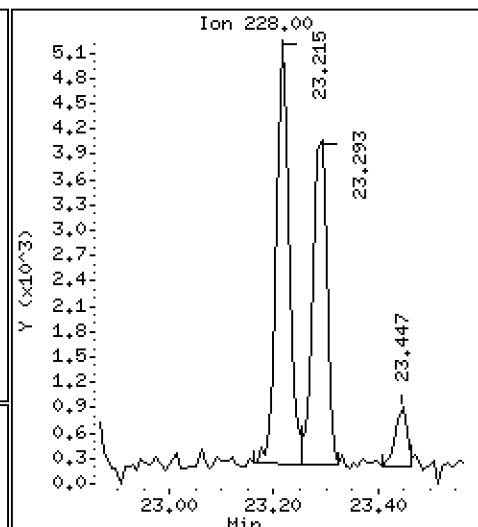
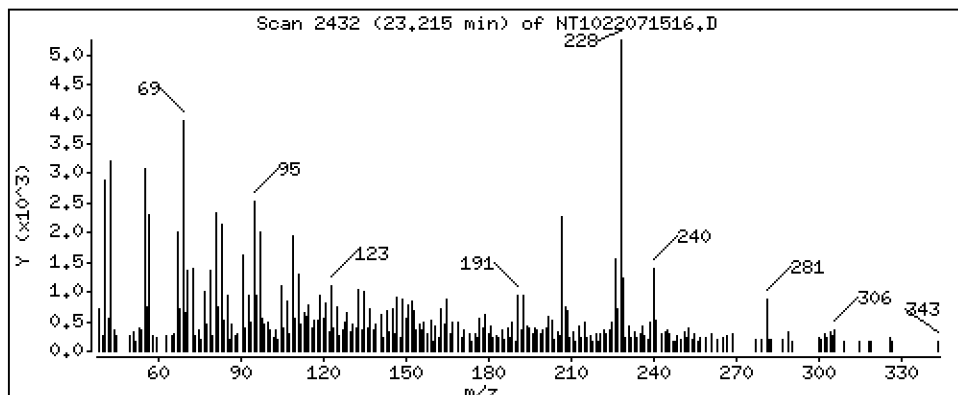
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 6,139 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

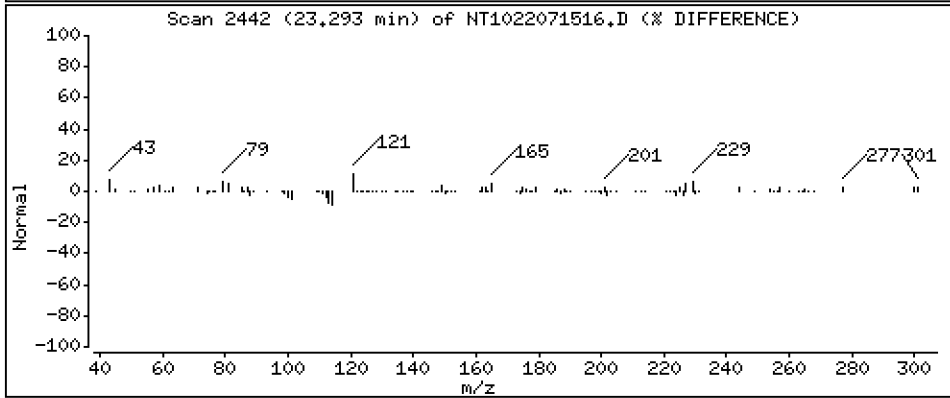
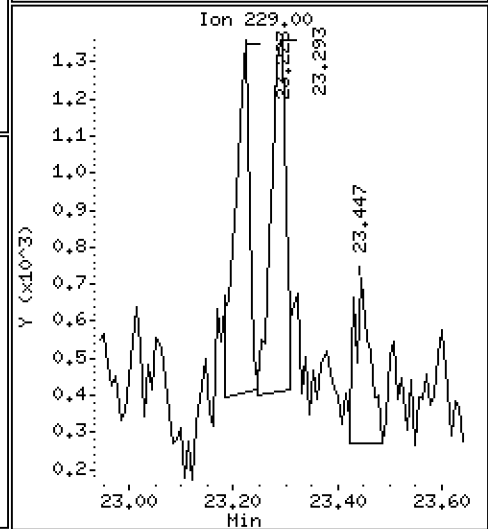
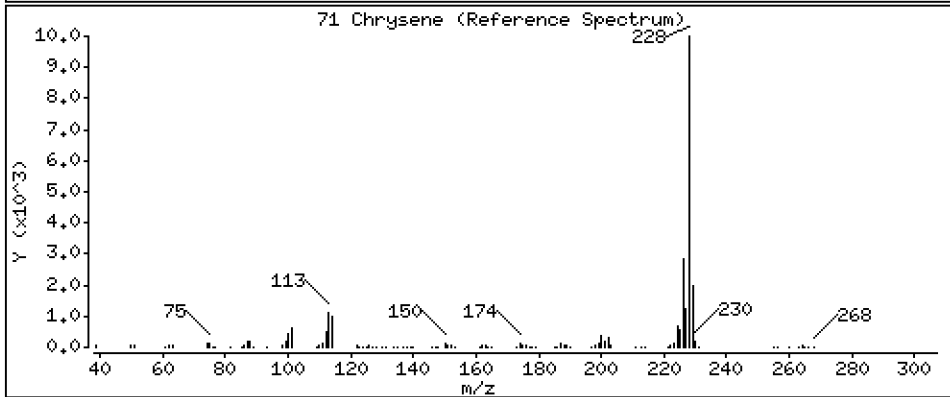
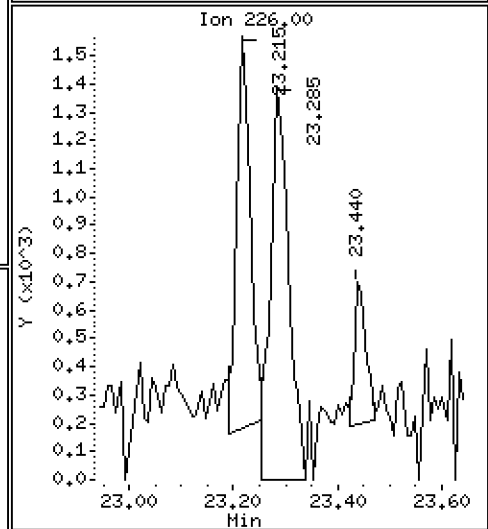
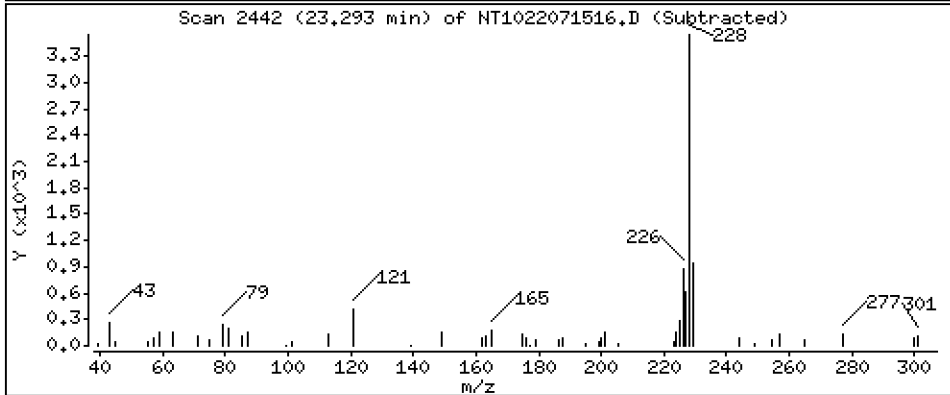
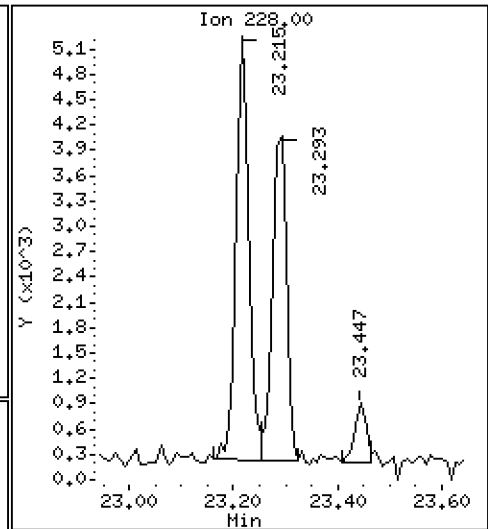
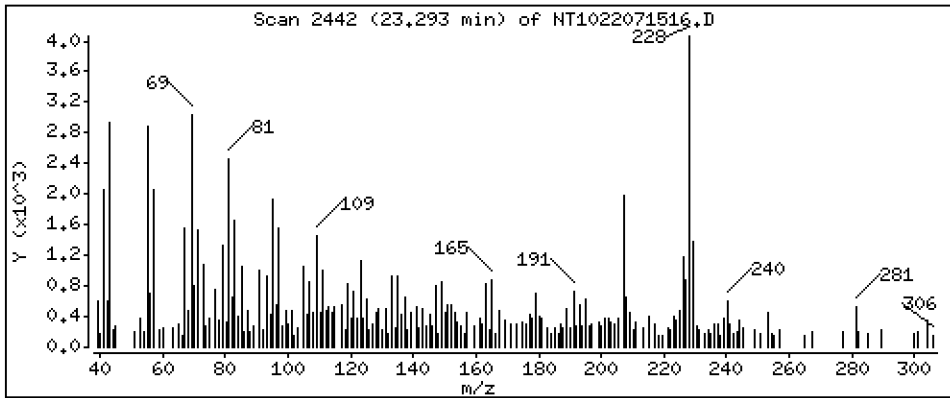
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 7,886 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

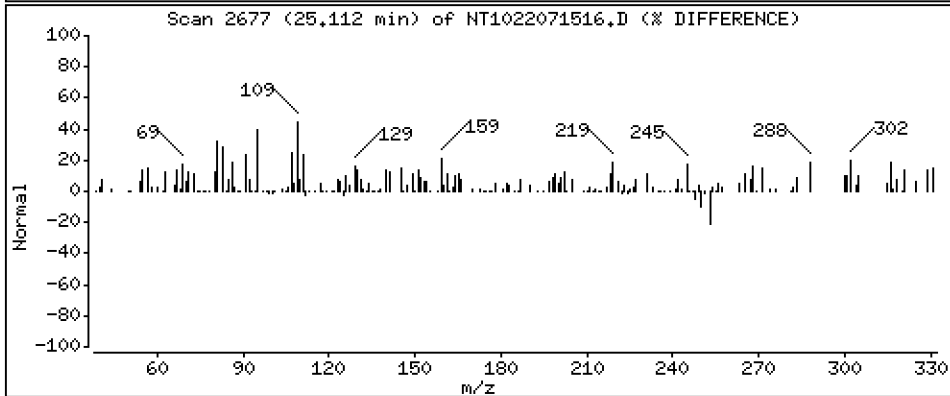
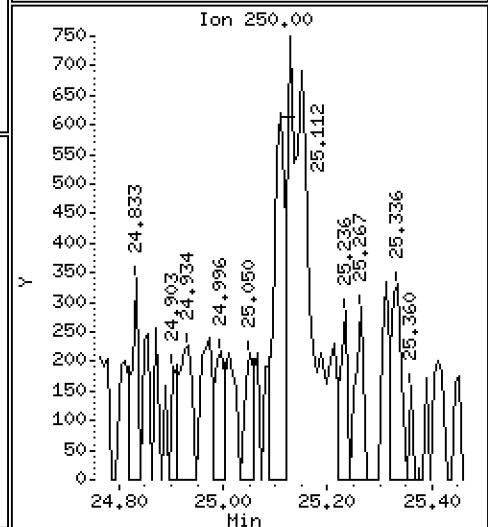
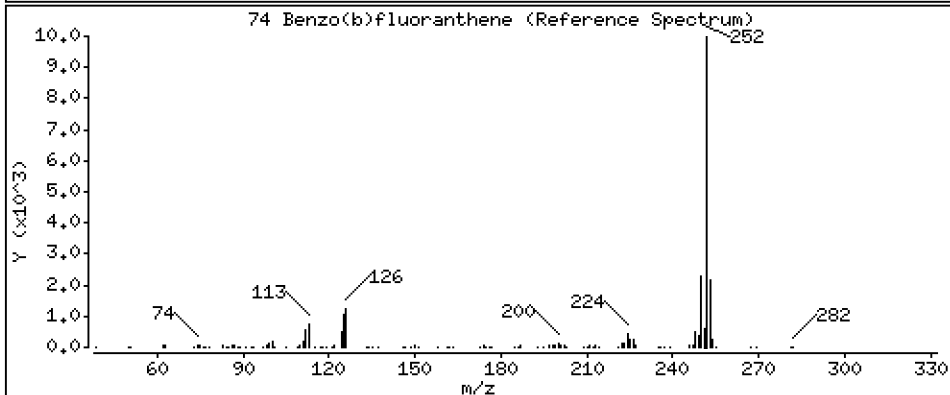
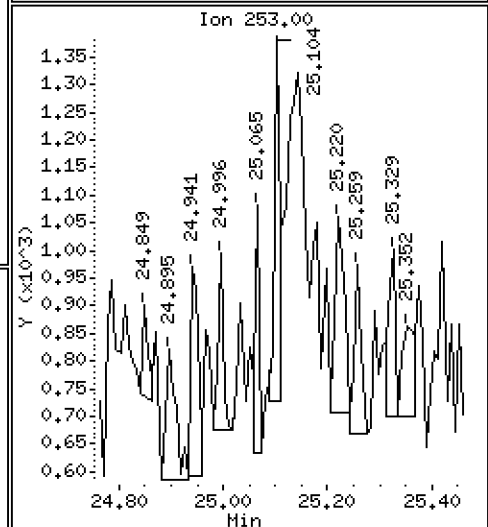
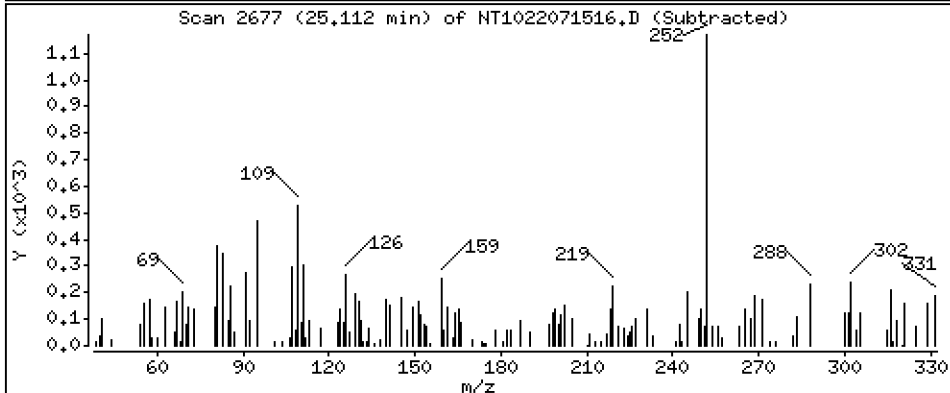
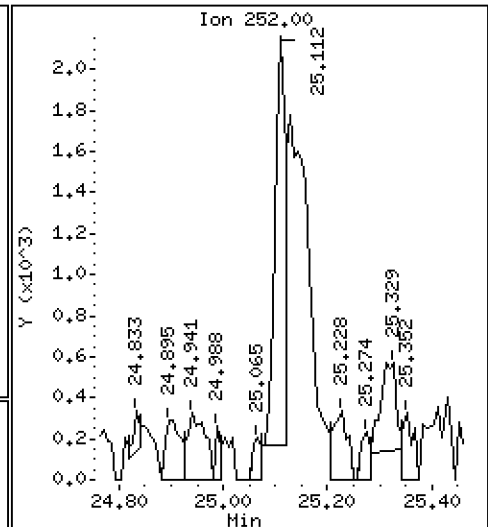
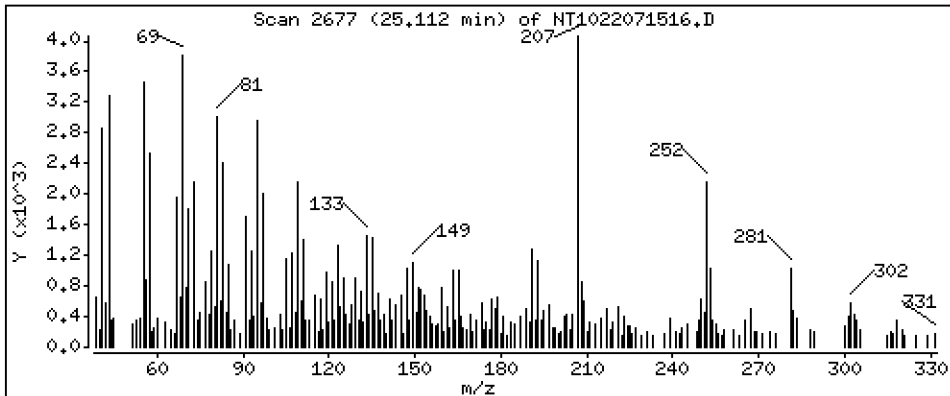
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 2,507 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

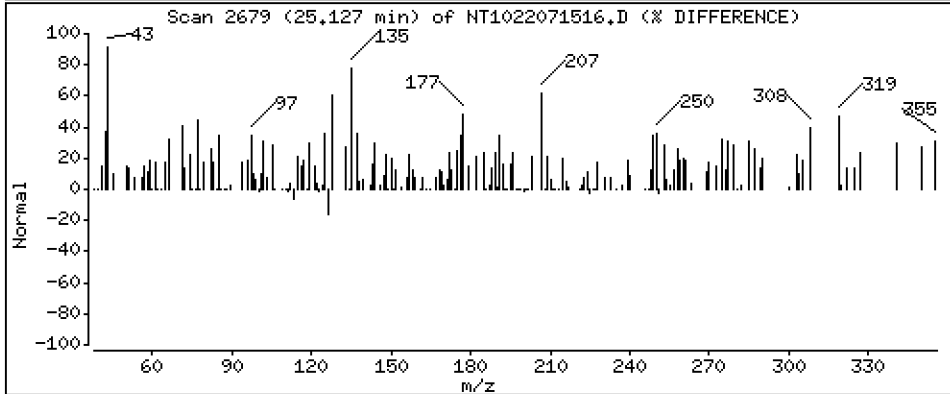
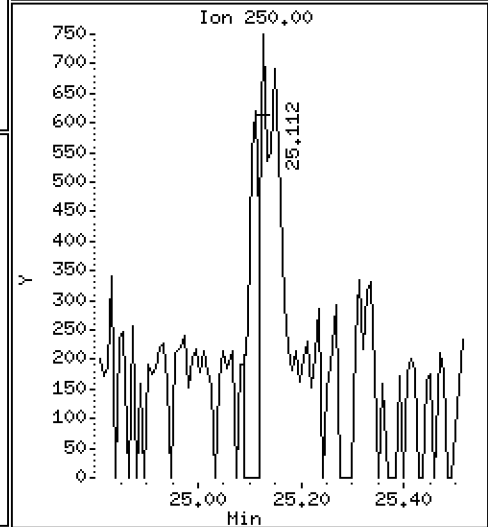
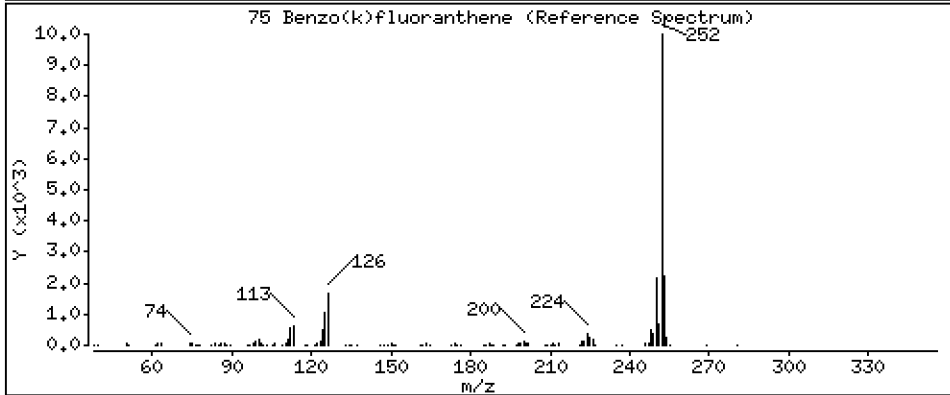
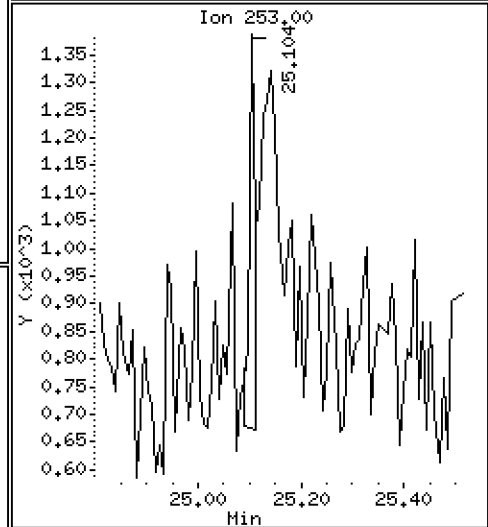
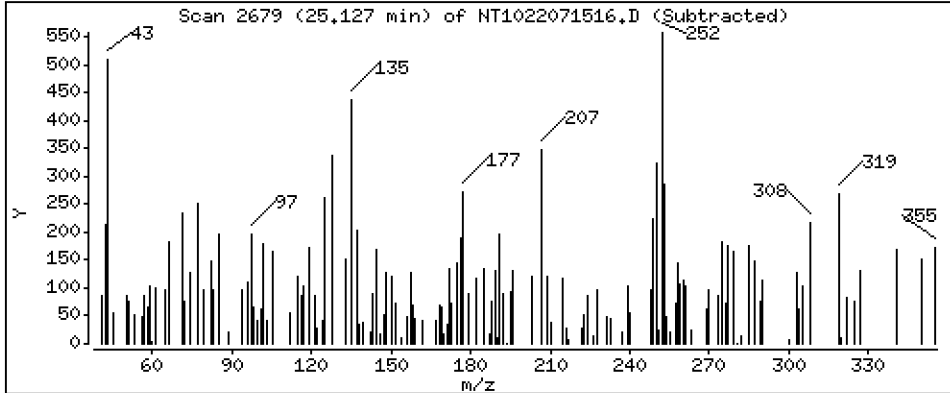
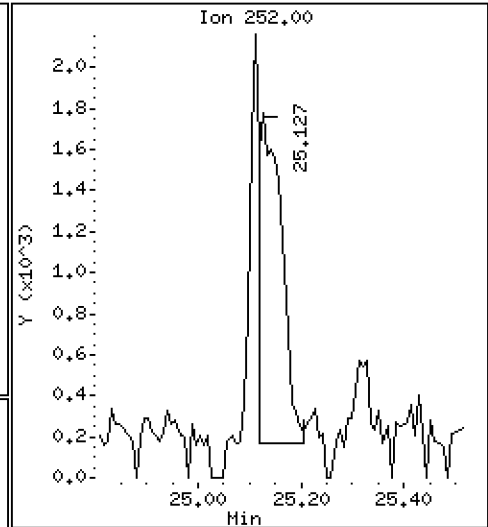
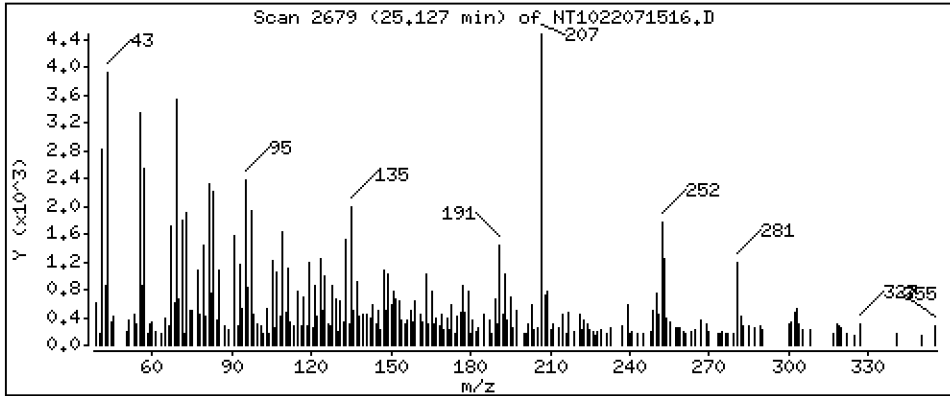
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,701 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

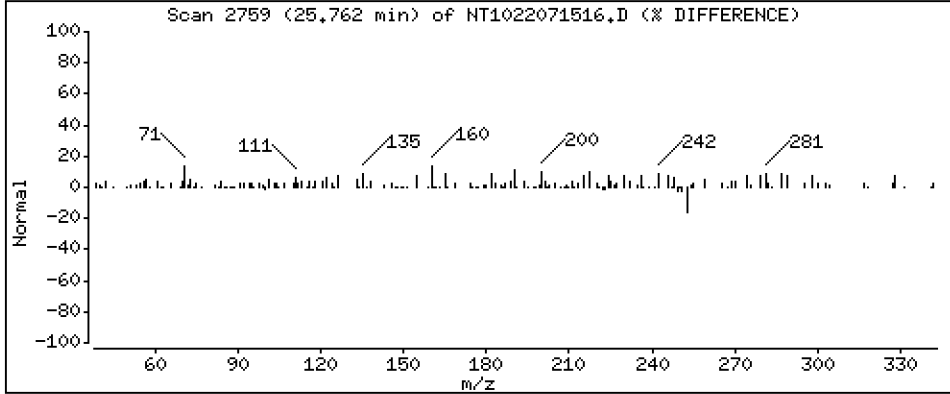
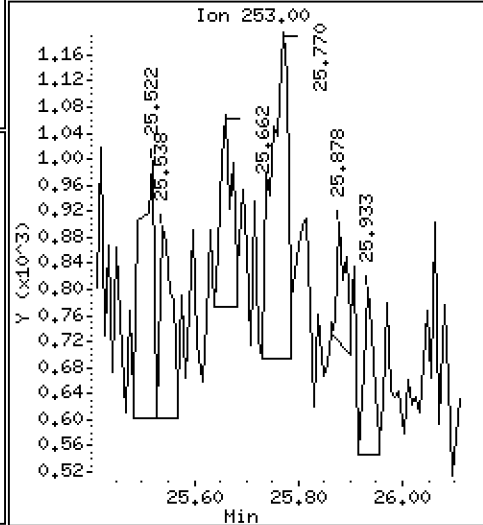
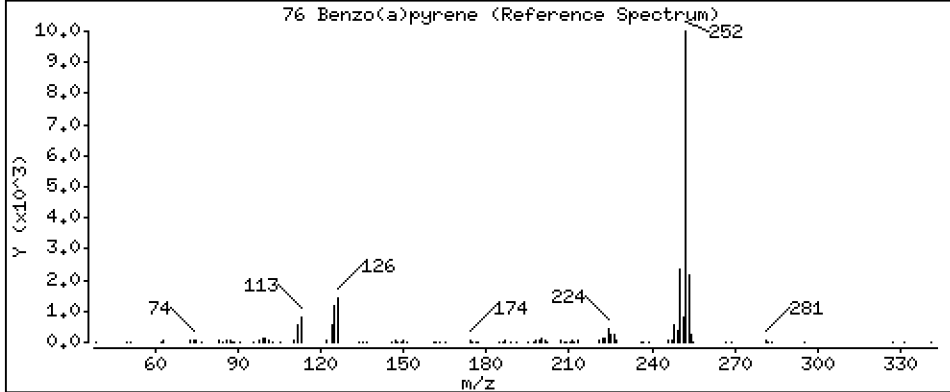
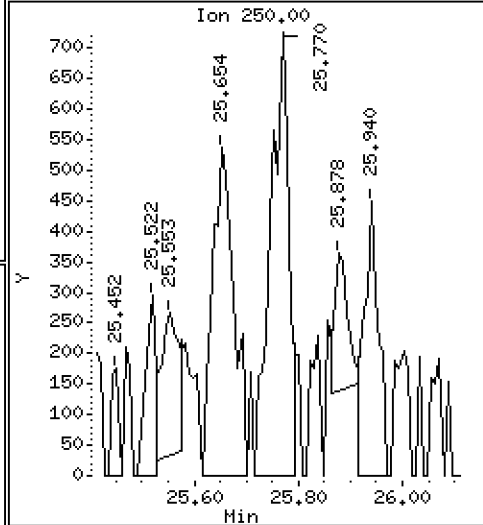
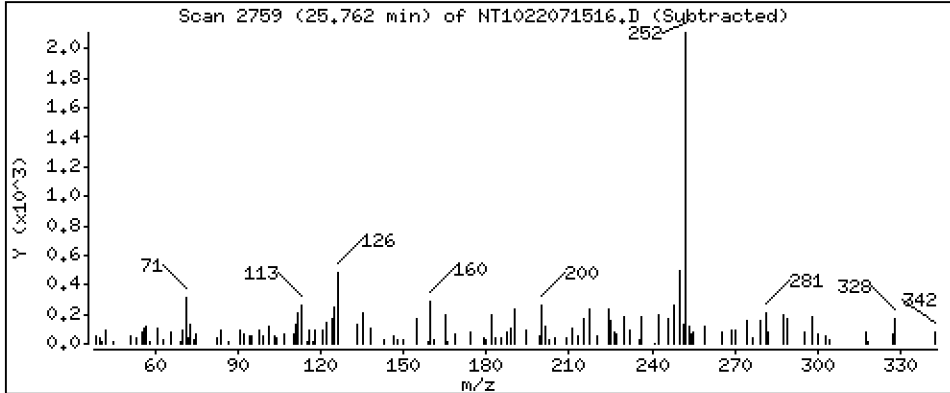
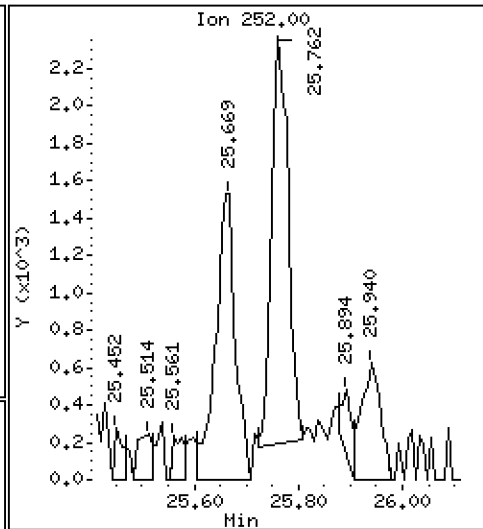
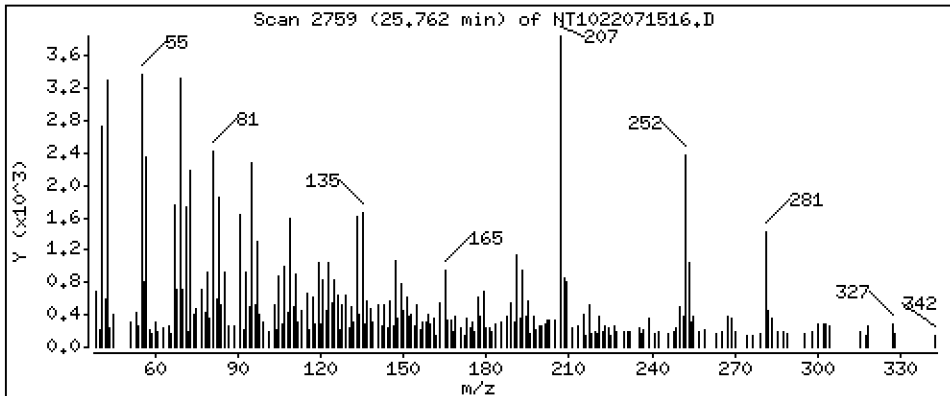
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 5,327 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

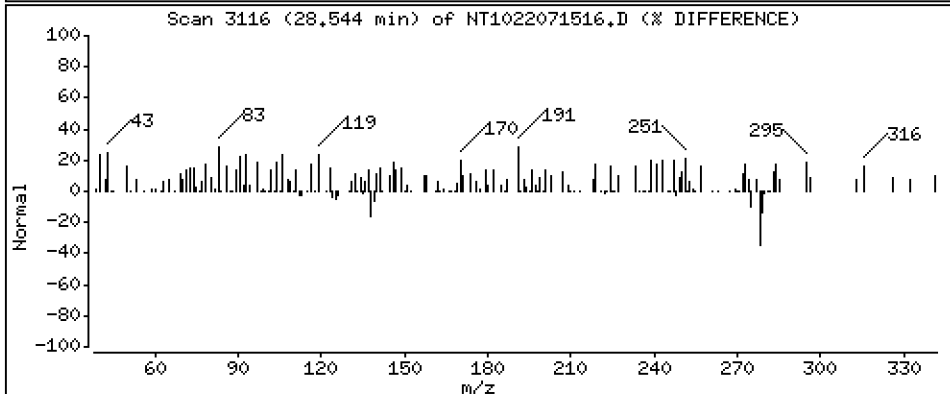
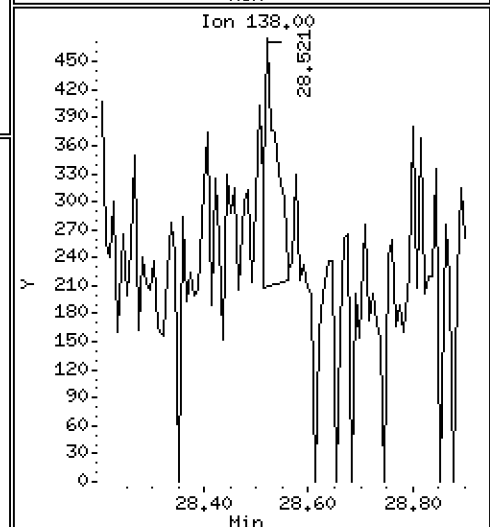
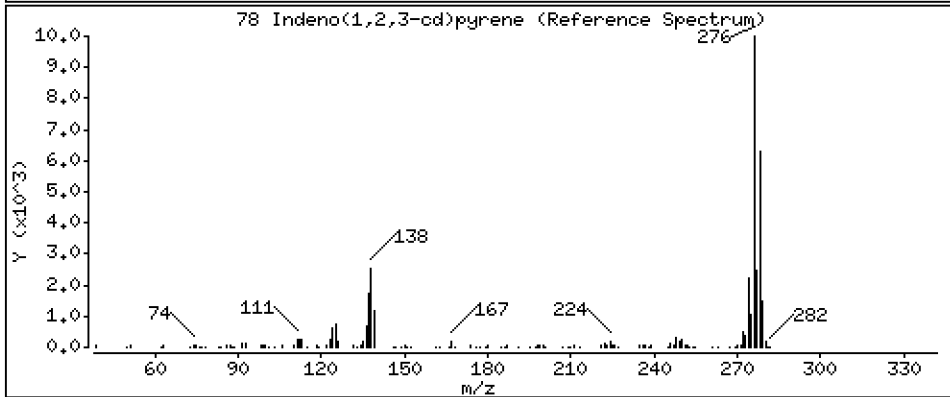
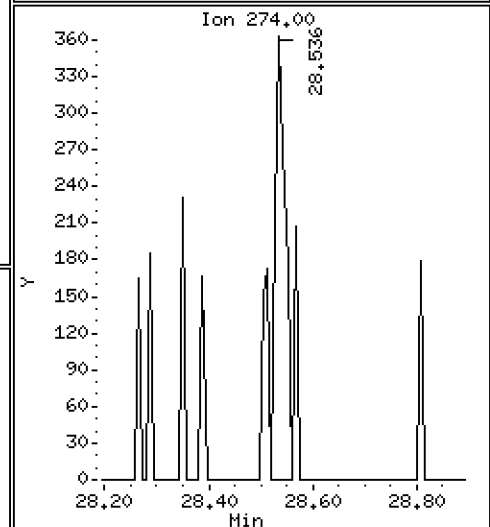
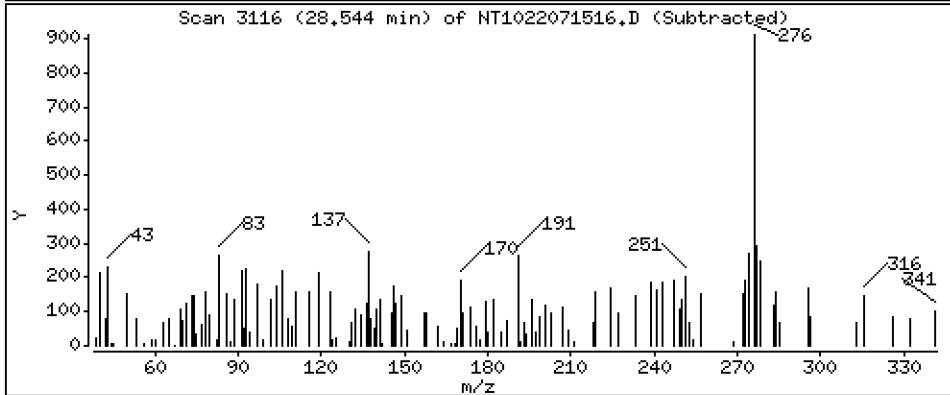
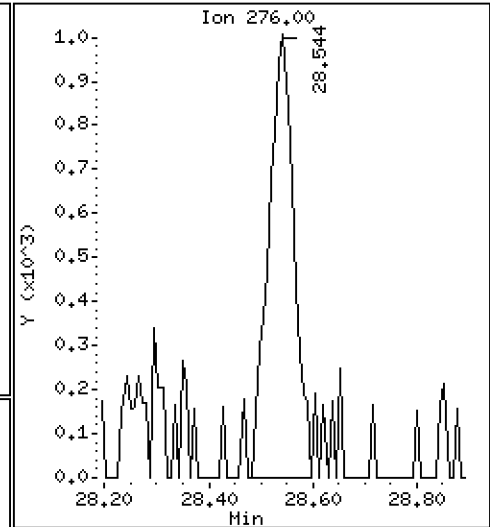
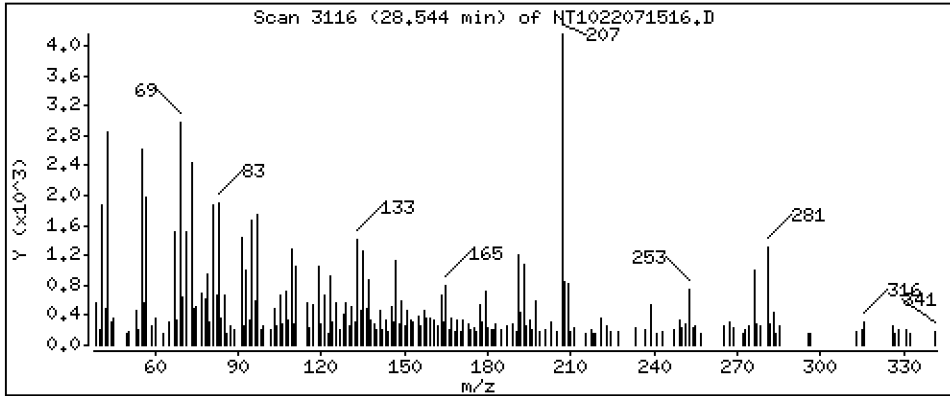
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 3,629 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

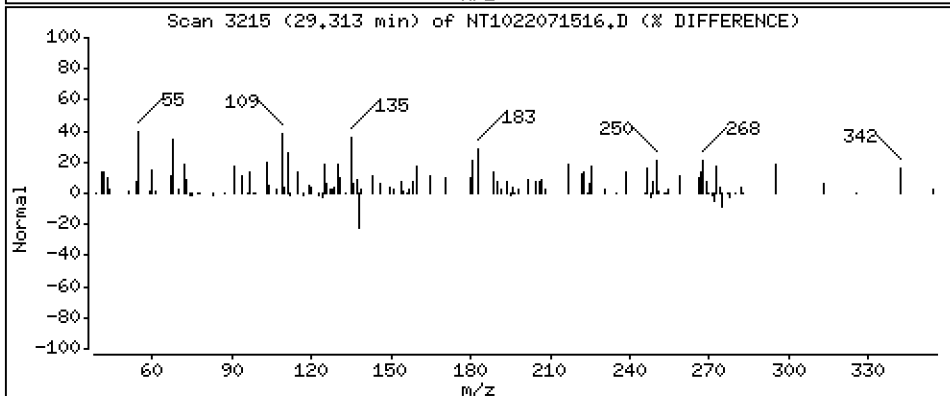
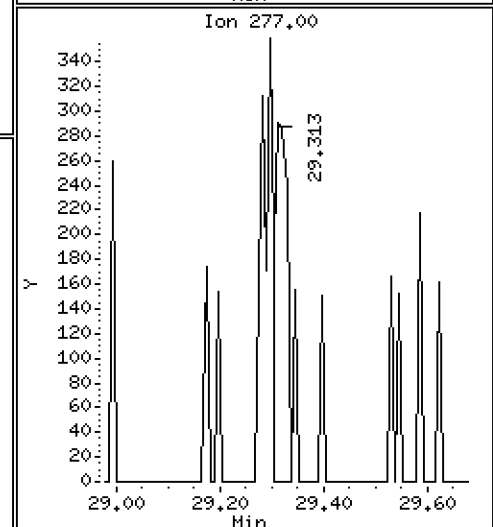
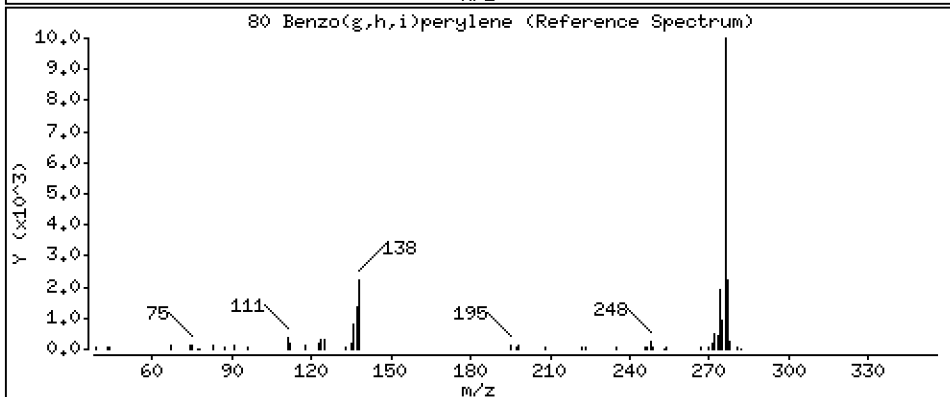
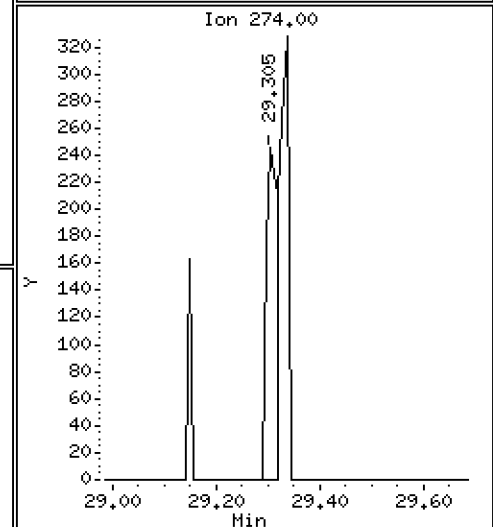
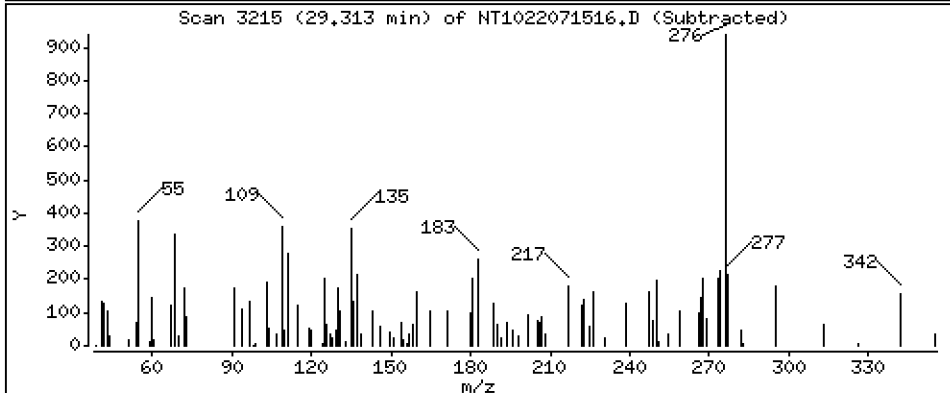
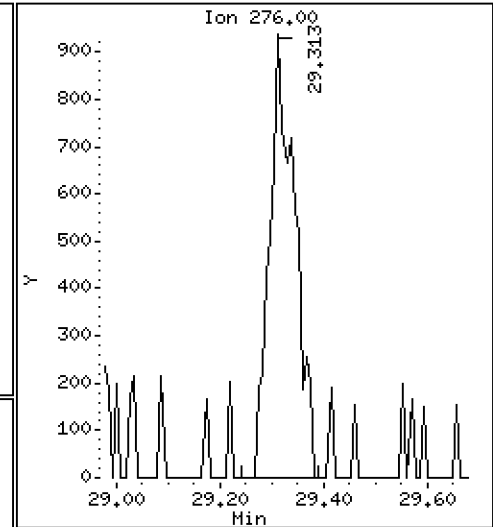
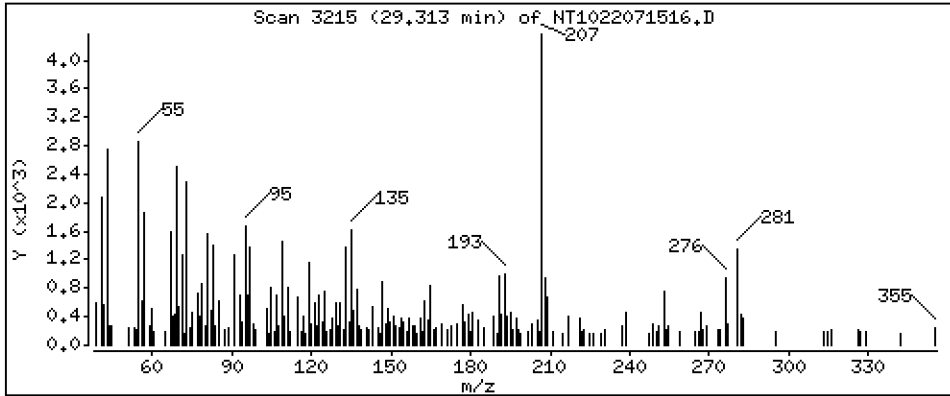
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,237 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

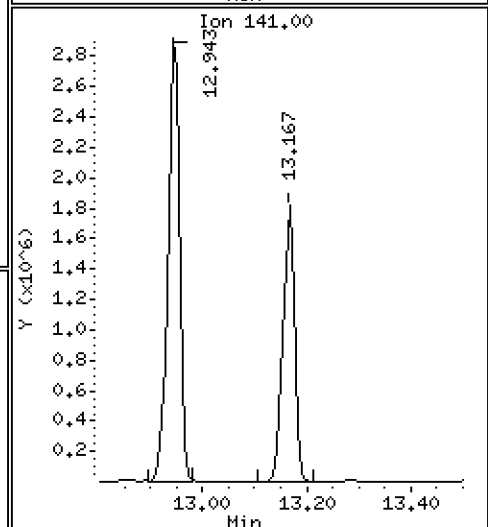
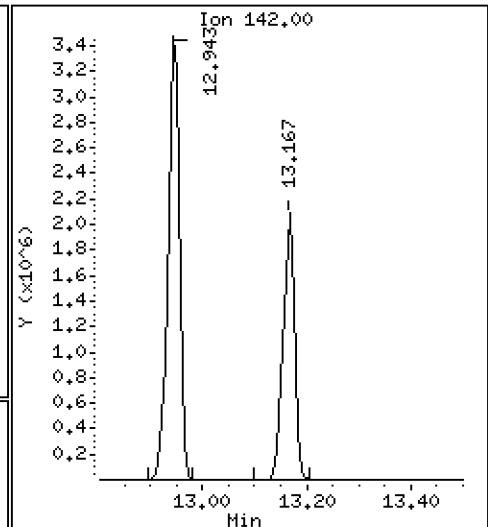
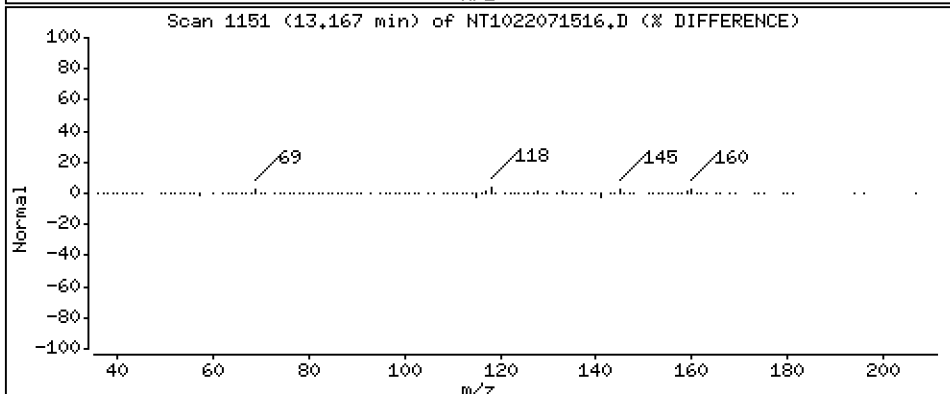
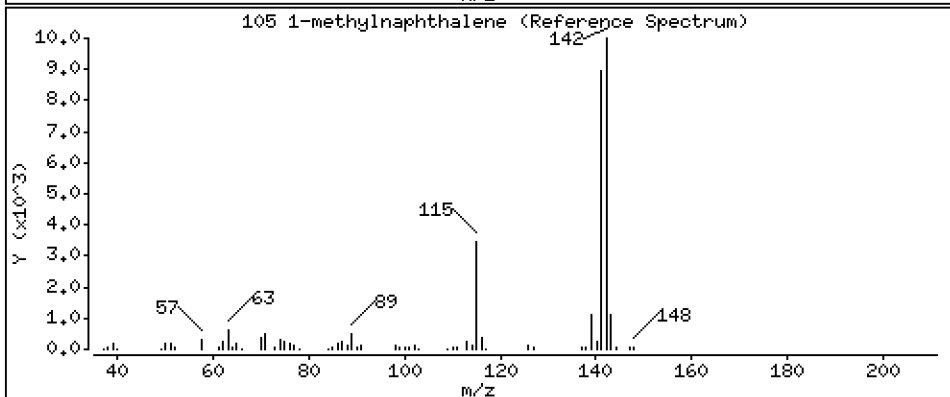
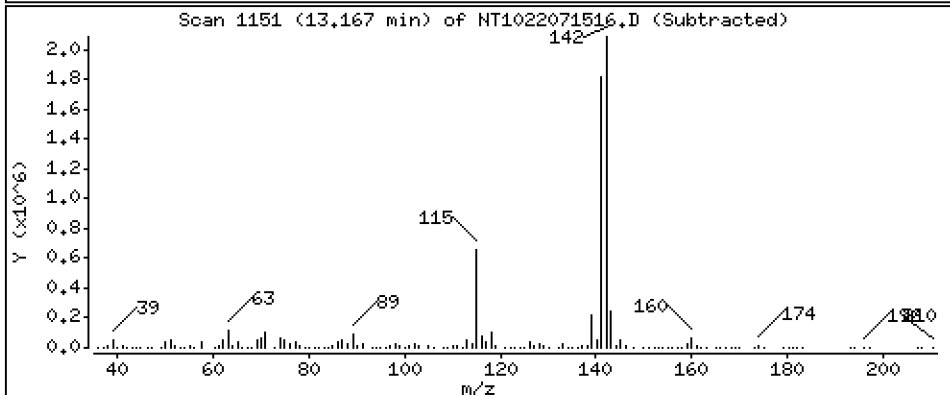
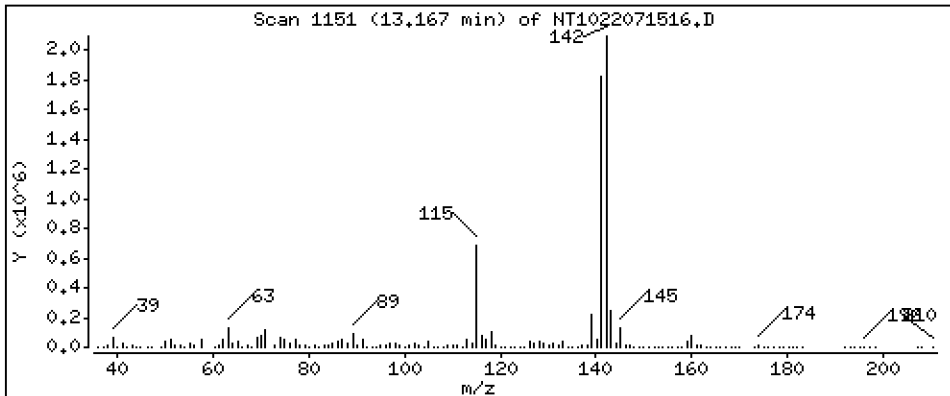
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 753,5 ug/mL



Date : 15-JUL-2022 21:57

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE1,50

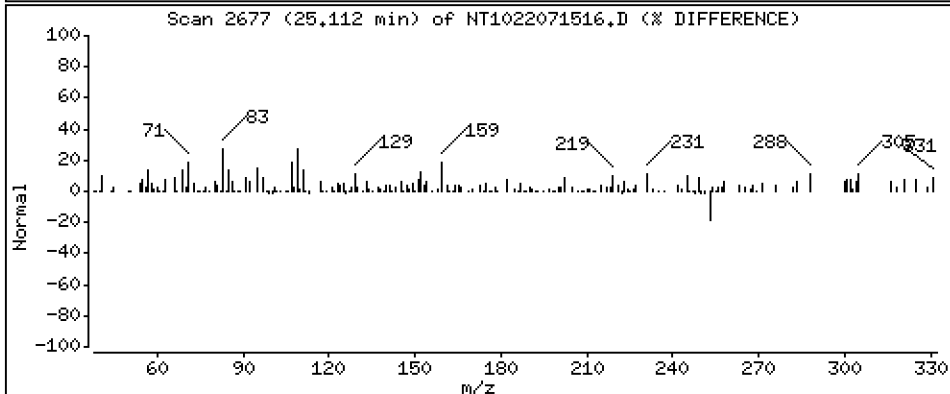
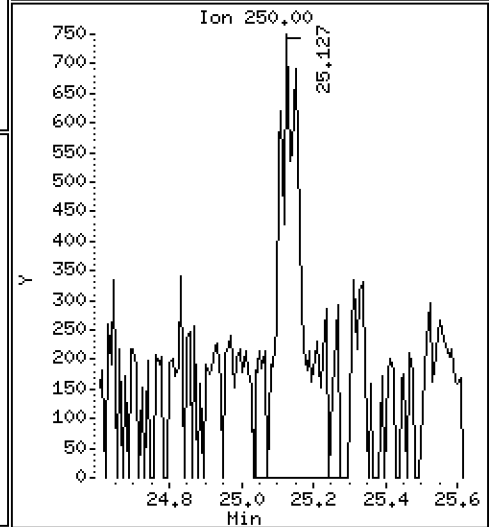
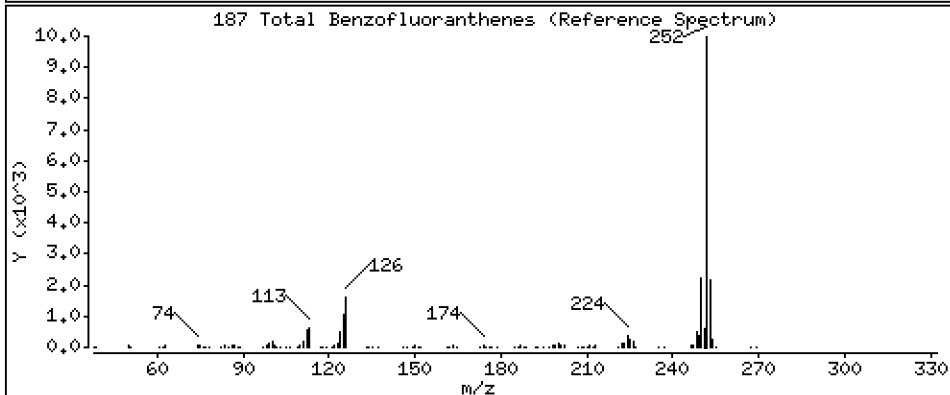
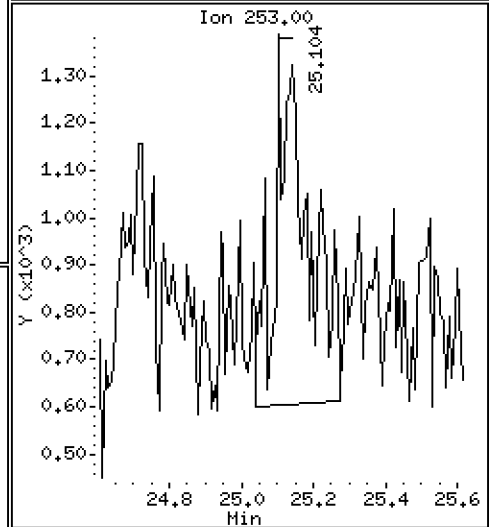
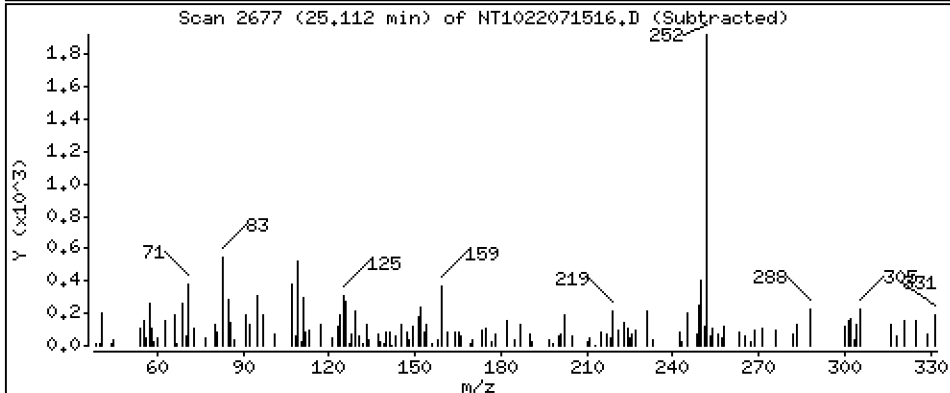
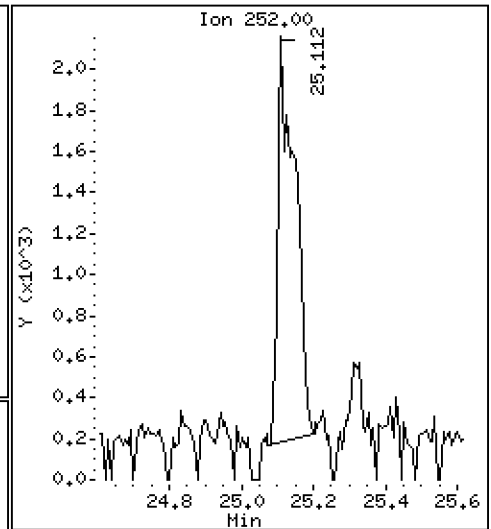
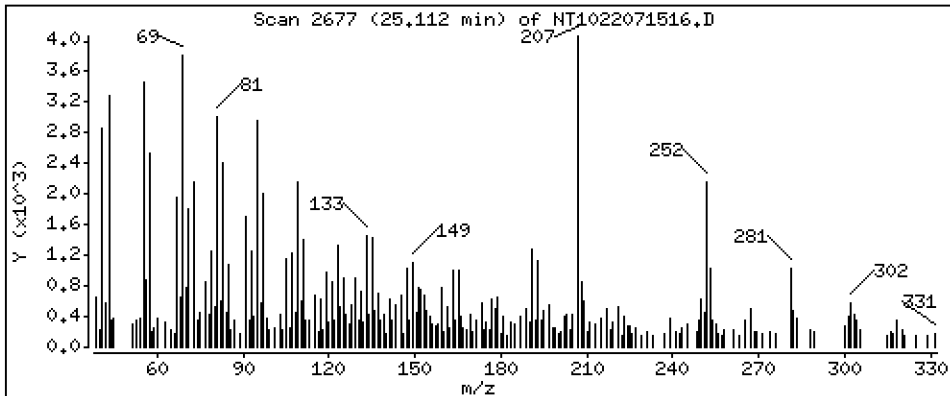
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 6,645 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071516.D
 Lab Smp Id: 22G0019-09RE1
 Inj Date : 15-JUL-2022 21:57
 Operator : VTS
 Smp Info : 22G0019-09RE1,50
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 16
 Dil Factor: 50.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.821	6.806	(0.757)	12713	0.11858	5.929
\$ 2 Phenol-d5	99		8.413	8.398	(0.934)	12073	0.07589	3.795
3 Phenol	94		Compound Not Detected.					
\$ 5 2-Chlorophenol-d4	132		8.660	8.652	(0.961)	12073	0.11052	5.526
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.008	9.001	(1.000)	293609	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.373	9.366	(1.040)	6001	0.08915	4.457
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		10.110	10.095	(0.879)	8755	0.10098	5.049
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.496	11.488	(1.000)	814808	4.00000	
28 Naphthalene	128		11.534	11.535	(1.003)	184095	0.88280	44.14
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		12.942	12.927	(1.126)	5450110	26.2968	1315
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.724	13.716	(0.908)	12814	0.12513	6.257
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152							
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.117	15.109	(1.000)	226295	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.187	15.179	(1.005)	97628	1.48342	74.17
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.511	15.511	(1.026)	47208	0.45135	22.57
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		16.230	16.223	(1.074)	170209	1.36194	68.10
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.770	16.762	(1.109)	572	0.05609	2.805
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.161	18.161	(1.000)	376020	4.00000	
60 Phenanthrene	178		18.215	18.207	(1.003)	384028	3.88741	194.4
61 Anthracene	178		18.308	18.300	(1.008)	34889	0.33141	16.57
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.613	20.606	(0.887)	49597	0.44696	22.35
65 Pyrene	202		21.039	21.031	(0.905)	54848	0.56444	28.22
\$ 66 Terphenyl-d14	244		21.333	21.326	(0.918)	6537	0.11904	5.952
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.215	23.215	(0.999)	8187	0.12278	6.139
* 69 Chrysene-d12	240		23.246	23.246	(1.000)	157358	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.292	23.292	(1.002)	6960	0.15772	7.886
72 bis(2-Ethylhexyl)phthalate	149							
* 134 Di-n-octylphthalate-d4	153		24.306	24.306	(1.000)	281615	4.00000	(H)
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.111	25.112	(0.970)	2678	0.05015	2.507
75 Benzo(k)fluoranthene	252		25.127	25.158	(0.971)	4828	0.09402	4.701 (M)
76 Benzo(a)pyrene	252		25.762	25.762	(0.995)	4657	0.10655	5.327
* 77 Perylene-d12	264		25.886	25.878	(1.000)	117921	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.544	28.544	(1.103)	3387	0.07258	3.629
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276		29.313	29.329	(1.132)	3161	0.08473	4.237 (M)
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.167	13.151	(1.145)	3068640	15.0706	753.5
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.111	25.112	(0.970)	6618	0.13291	6.645 (M)	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071516.D Calibration Time: 12:41
 Lab Smp Id: 22G0019-09RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	293609	45.68
27 Naphthalene-d8	649654	324827	1299308	814808	25.42
42 Acenaphthene-d10	370460	185230	740920	226295	-38.92
59 Phenanthrene-d10	647298	323649	1294596	376020	-41.91
69 Chrysene-d12	221116	110558	442232	157358	-28.83
134 Di-n-octylphthala	319144	159572	638288	281615	-11.76
77 Perylene-d12	105234	52617	210468	117921	12.06

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.01	0.08
27 Naphthalene-d8	11.49	10.99	11.99	11.50	0.07
42 Acenaphthene-d10	15.11	14.61	15.61	15.12	0.05
59 Phenanthrene-d10	18.16	17.66	18.66	18.16	-0.00
69 Chrysene-d12	23.25	22.75	23.75	23.25	-0.00
134 Di-n-octylphthala	24.31	23.81	24.81	24.31	-0.00
77 Perylene-d12	25.88	25.38	26.38	25.89	0.03

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

REVIEW SUMMARY FOR FILE - NT1022071516.D

Lab ID: 22G0019-09RE1
nt10.i, ABN.m, 15-JUL-2022 21:57

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022071502.D

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

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

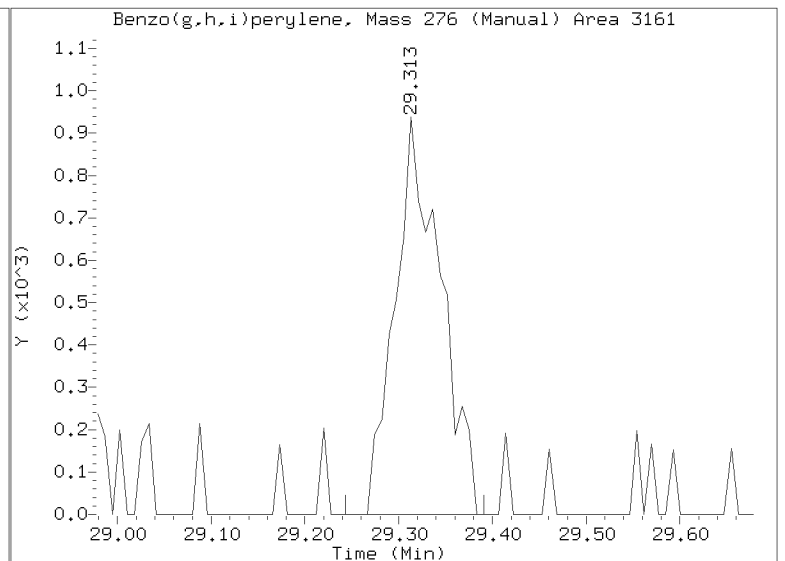
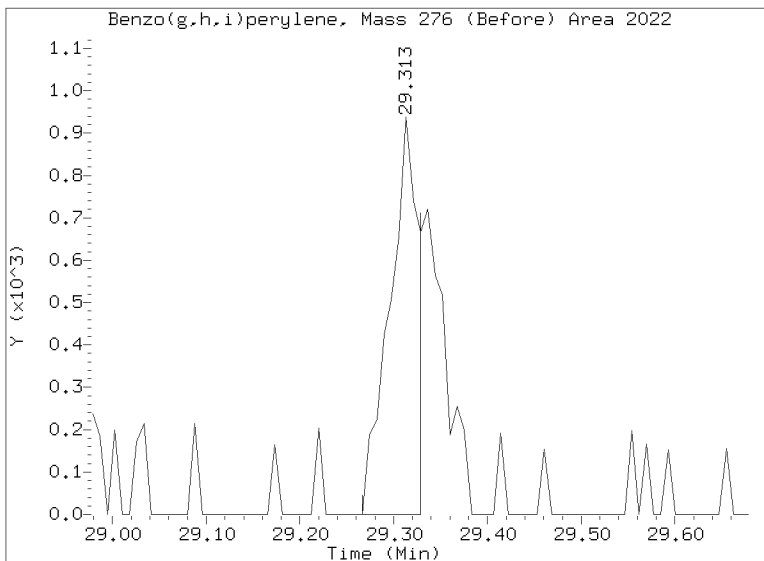
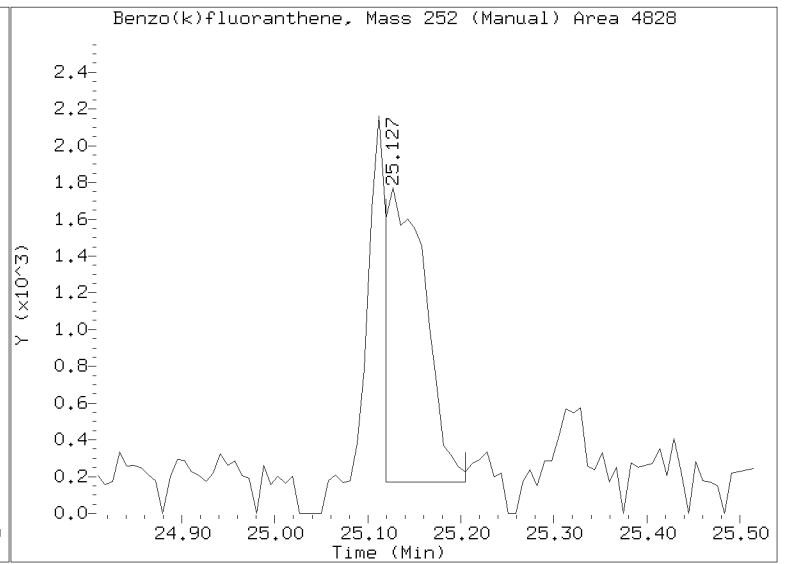
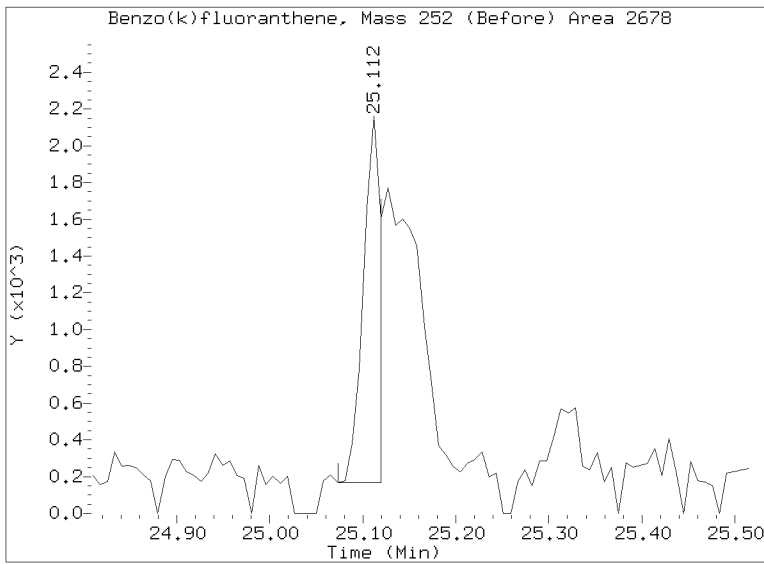
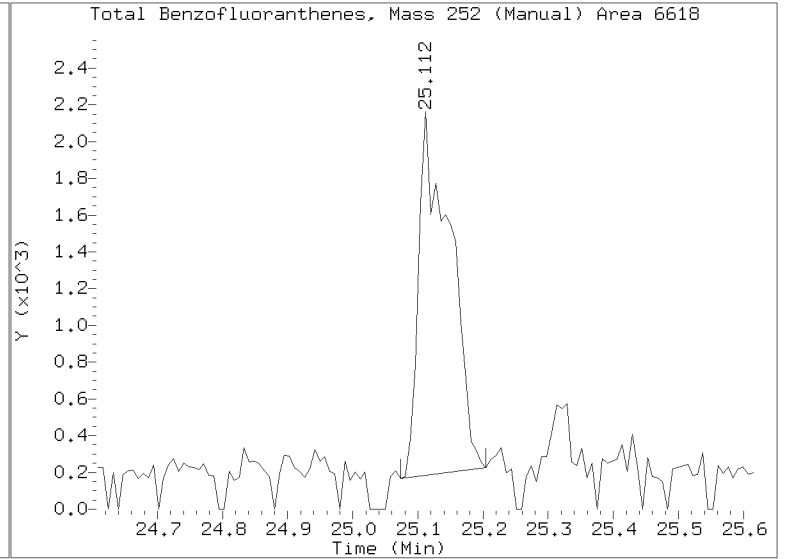
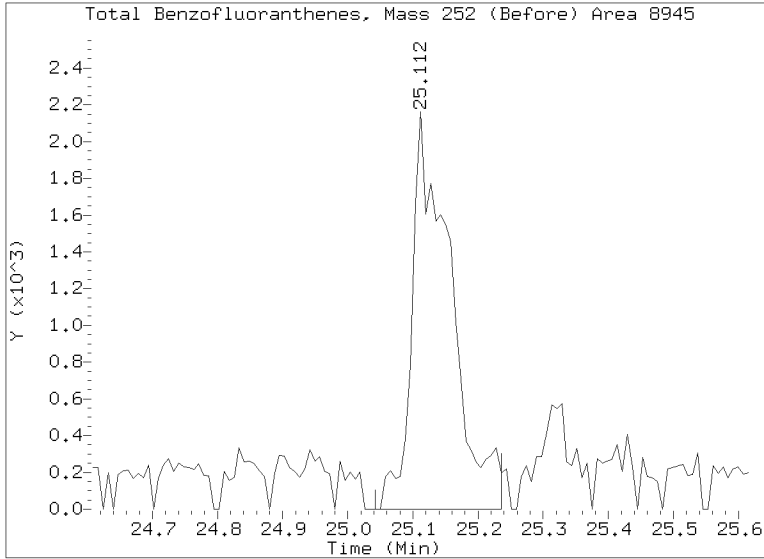
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071516.D

Injection Date: 15-JUL-2022 21:57

Lab ID:22G0019-09RE1 Client ID:

Report Date: 07/16/2022 09:38





Form I
ORGANIC ANALYSIS DATA SHEET

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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-09RE2 A

SDG: 22G0019

Sampled: 06/29/22 11:35

Prepared: 07/07/22 10:01

File ID: NT1022071611.D

% Solids: 78.20

Preparation: EPA 3546 (Microwave)

Analyzed: 07/16/22 17:04

Batch: BKG0069

Sequence: SKG0171

Initial/Final: 12.79 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	100	4610	D	424	2000
91-57-6	2-Methylnaphthalene	100	137000	D	451	2000
83-32-9	Acenaphthene	100	11900	D	522	2000
87-86-5	Pentachlorophenol	100	3120	U	3120	10000
85-01-8	Phenanthrene	100	18600	D	872	2000
206-44-0	Fluoranthene	100	1290	J, D	609	2000
56-55-3	Benzo(a)anthracene	100	735	J, D	596	2000
218-01-9	Chrysene	100	857	J, D	606	2000
205-99-2	Benzo(b)fluoranthene	100	702	U	702	2000
207-08-9	Benzo(k)fluoranthene	100	501	U	501	2000
50-32-8	Benzo(a)pyrene	100	641	J, D	423	2000
193-39-5	Indeno(1,2,3-cd)pyrene	100	1460	U	1460	2000
53-70-3	Dibenzo(a,h)anthracene	100	1720	U	1720	2000
90-12-0	1-Methylnaphthalene	100	81300	D	526	2000

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.87			27 - 120	D1
Phenol-d5	749.87			29 - 120	D1
2-Chlorophenol-d4	749.87			31 - 120	D1
1,2-Dichlorobenzene-d4	499.91			32 - 120	D1
Nitrobenzene-d5	499.91			30 - 120	D1
2-Fluorobiphenyl	499.91			35 - 120	*
2,4,6-Tribromophenol	749.87			24 - 134	D1
p-Terphenyl-d14	499.91			37 - 120	D1

Data File: \\target\share\chem3\nt10.1\20220716A.B\NT1022071611.D

Date: 16-JUL-2022 17:04

Client ID:

Sample Info: 22C0019-09RE2.100

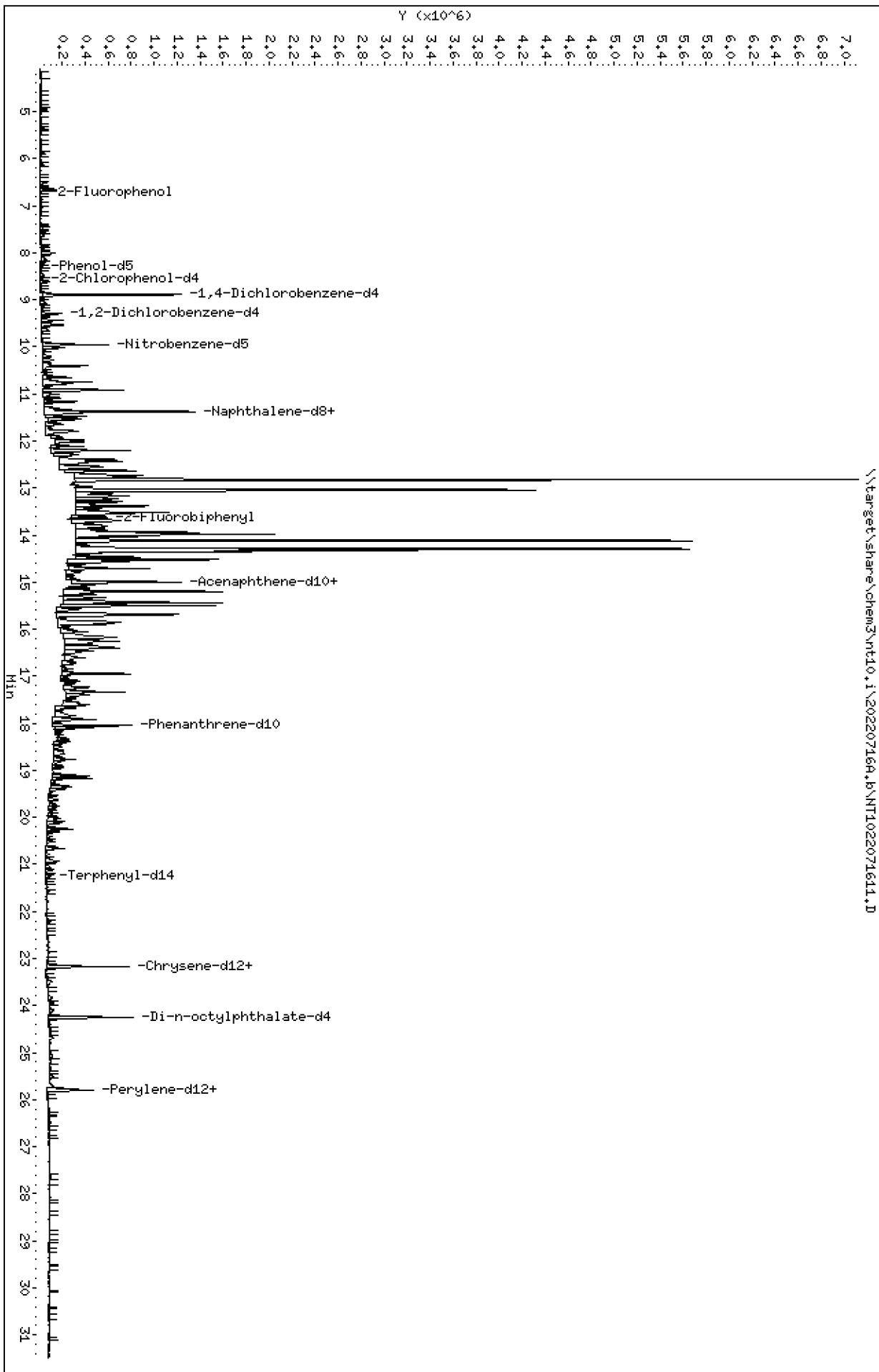
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

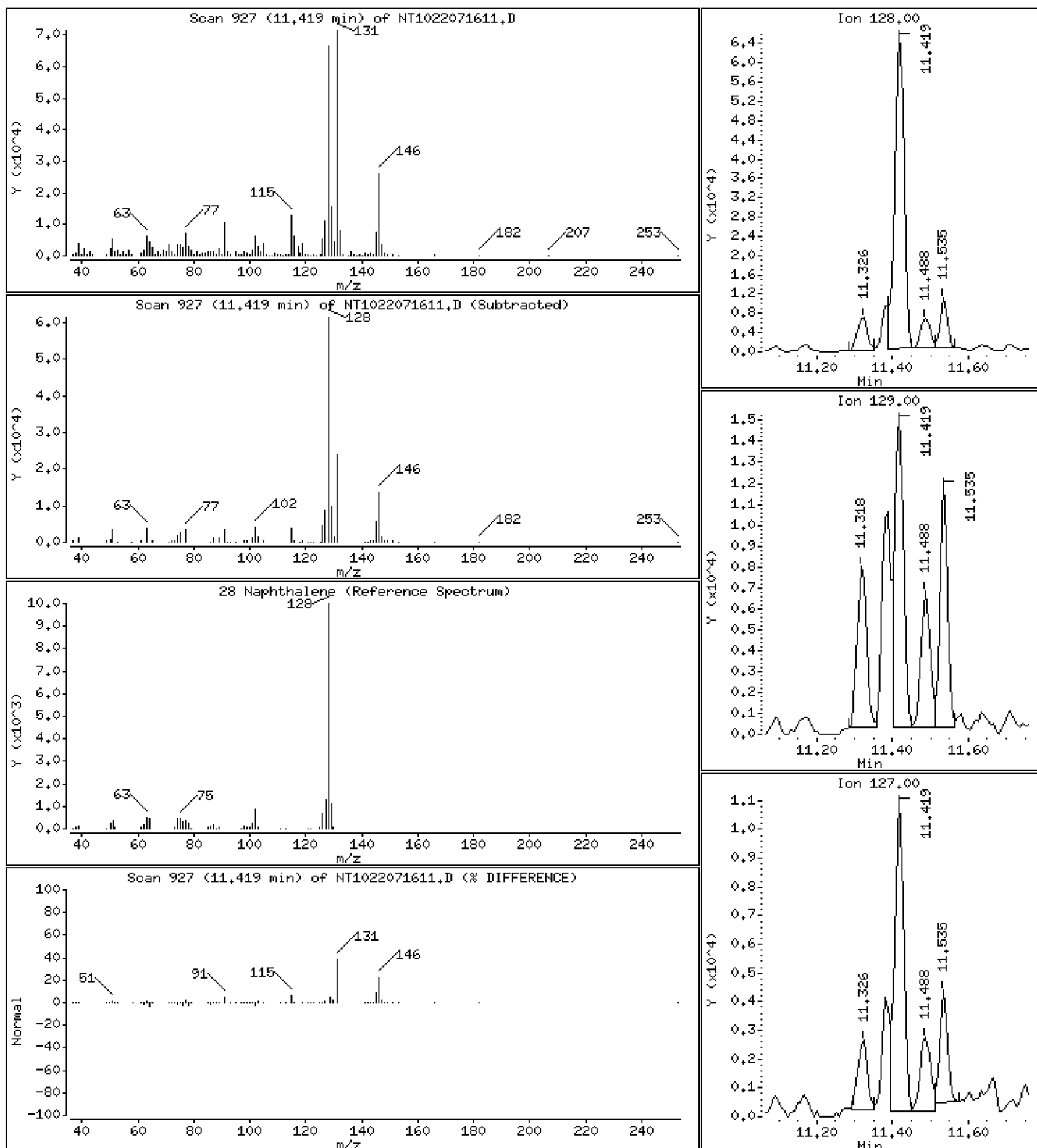
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 46,16 ug/mL



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

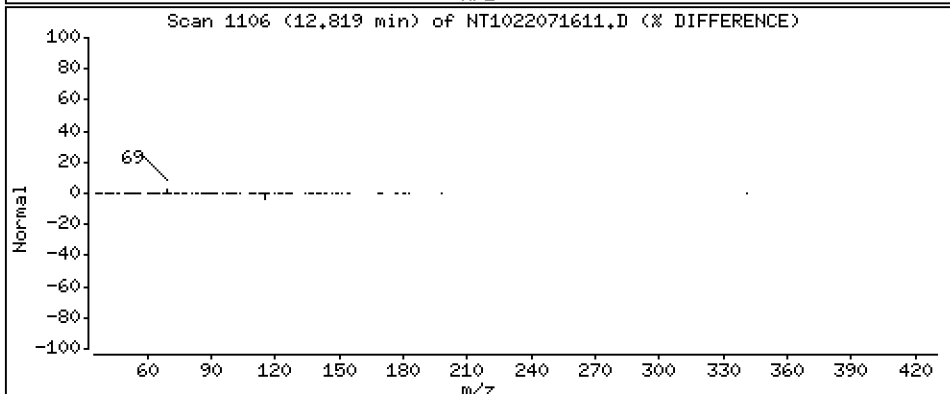
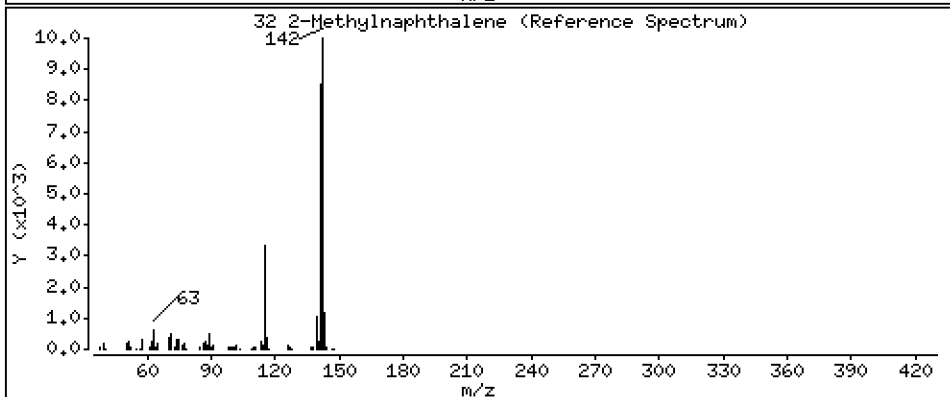
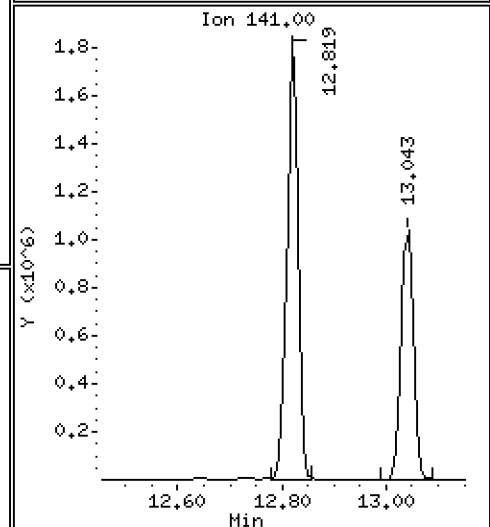
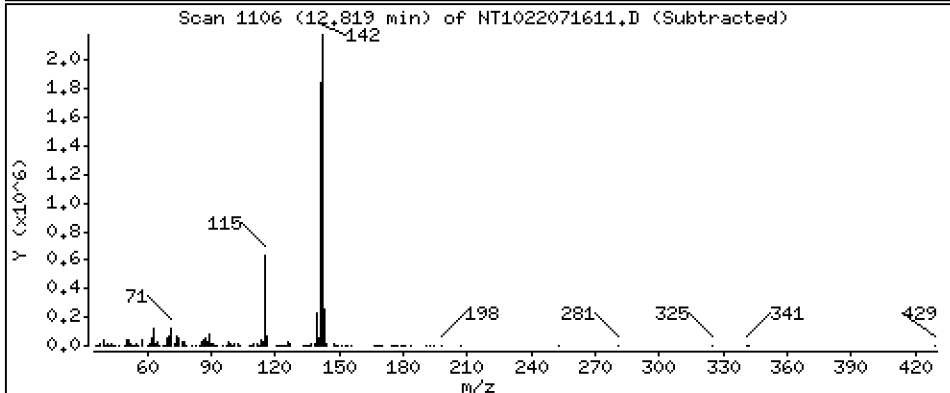
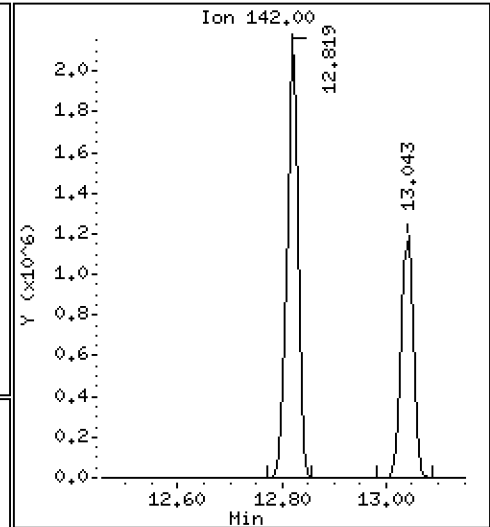
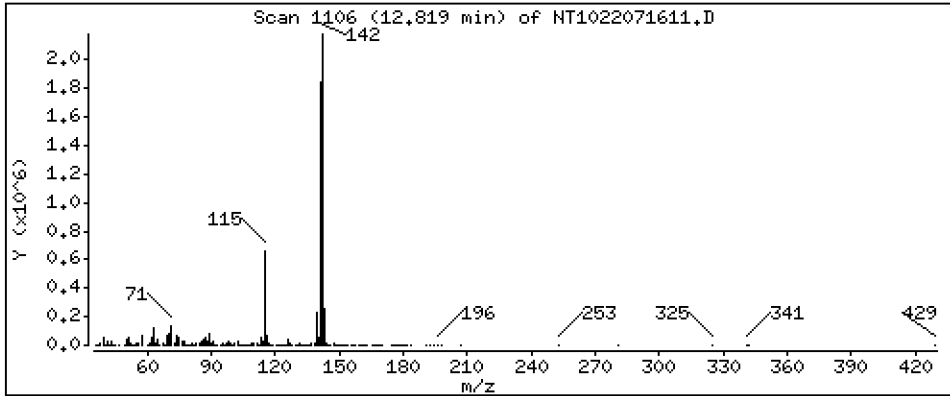
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 1373 ug/mL



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

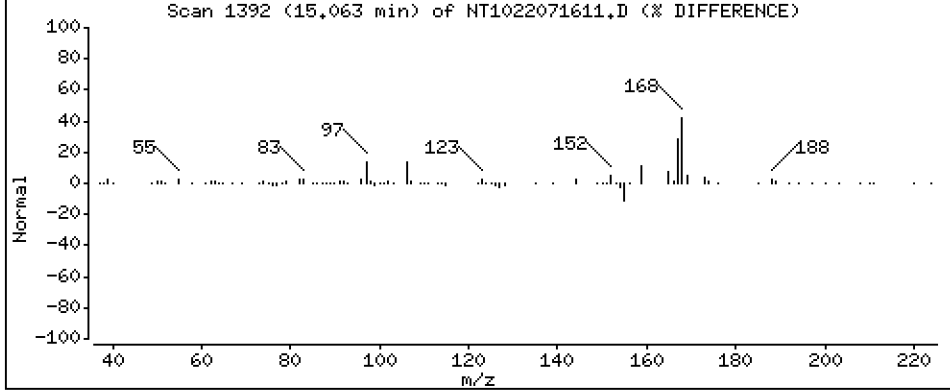
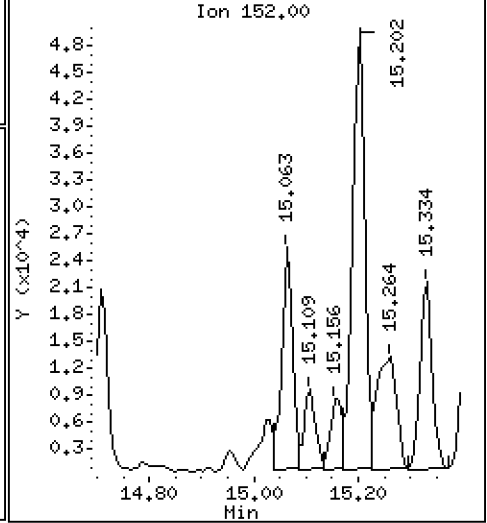
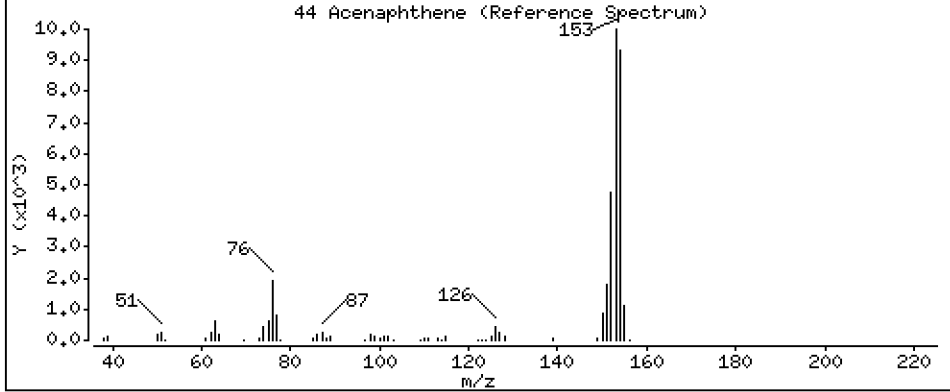
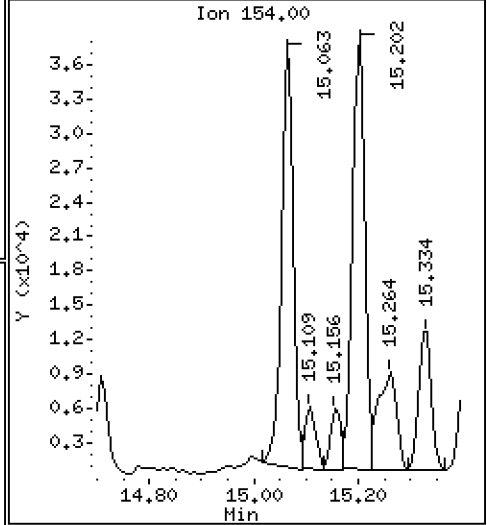
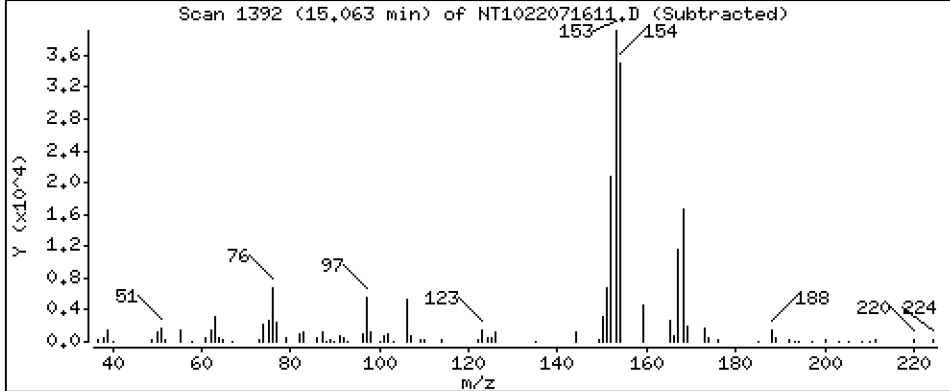
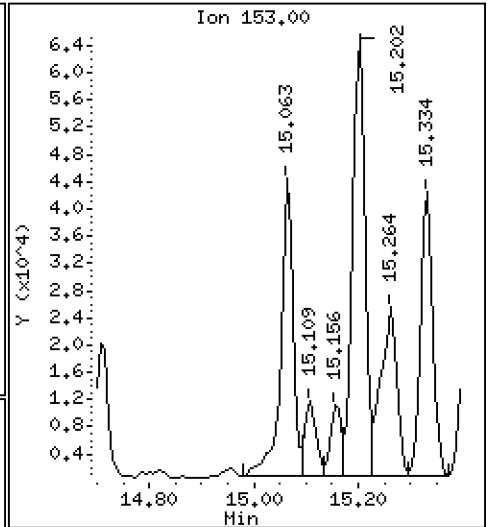
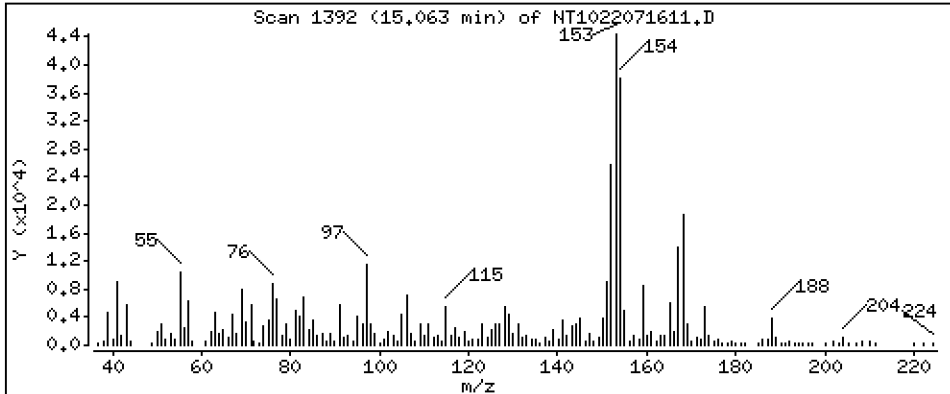
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 119,5 ug/mL



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

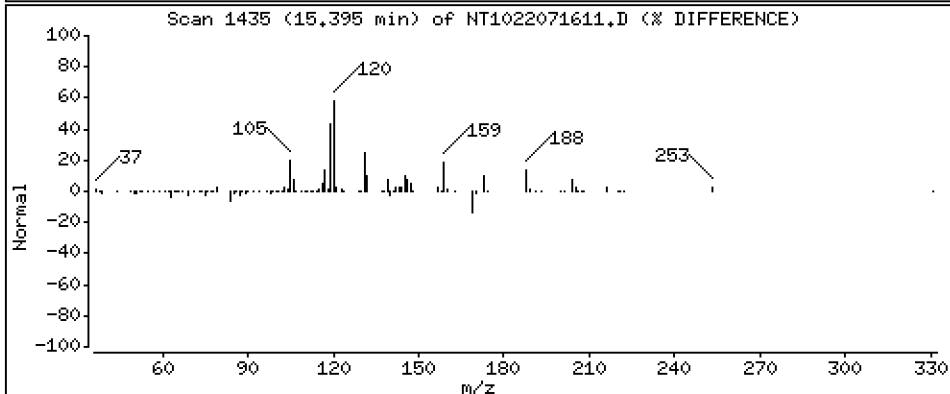
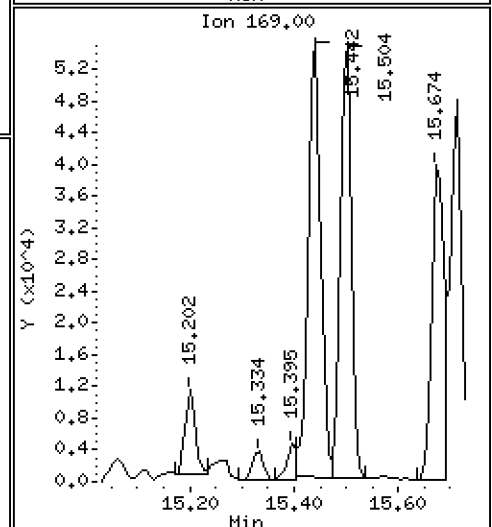
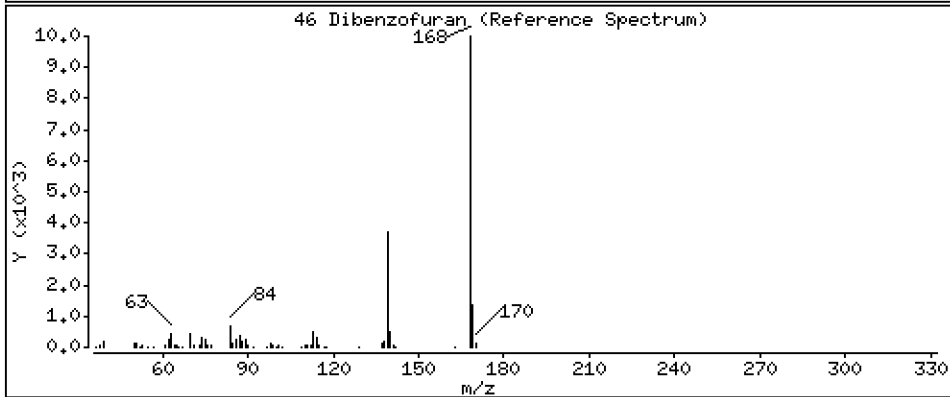
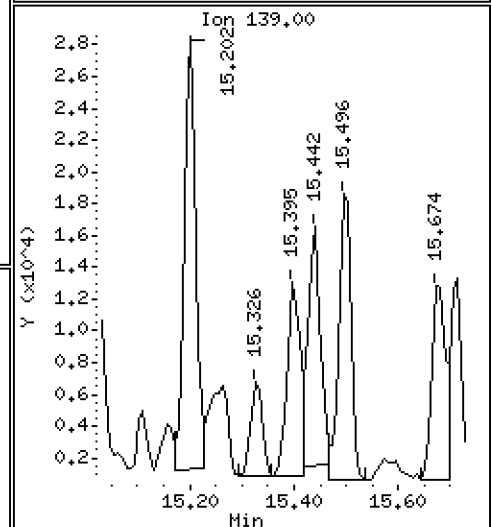
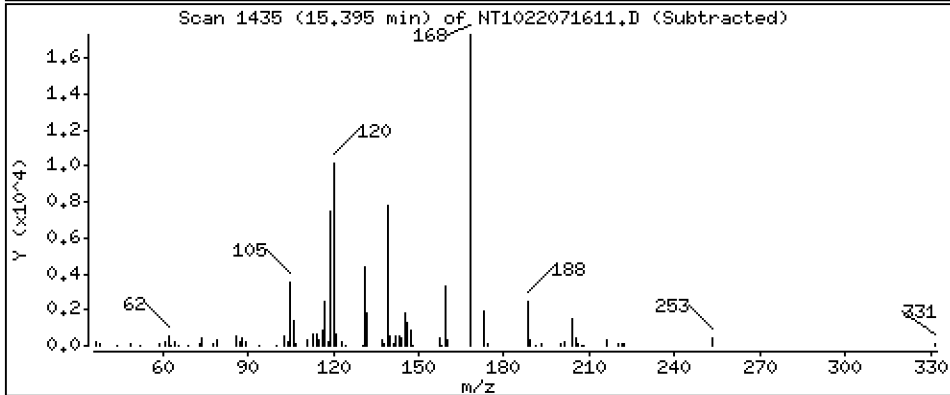
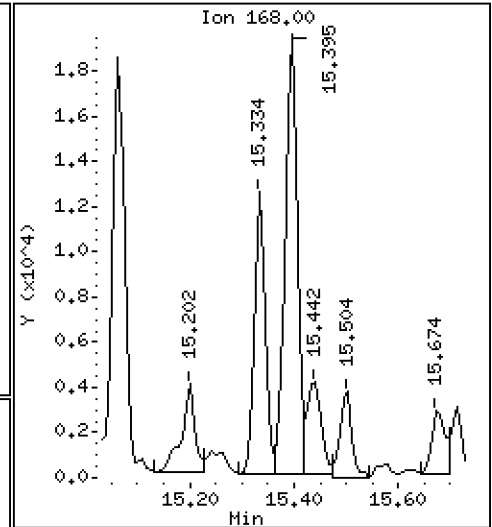
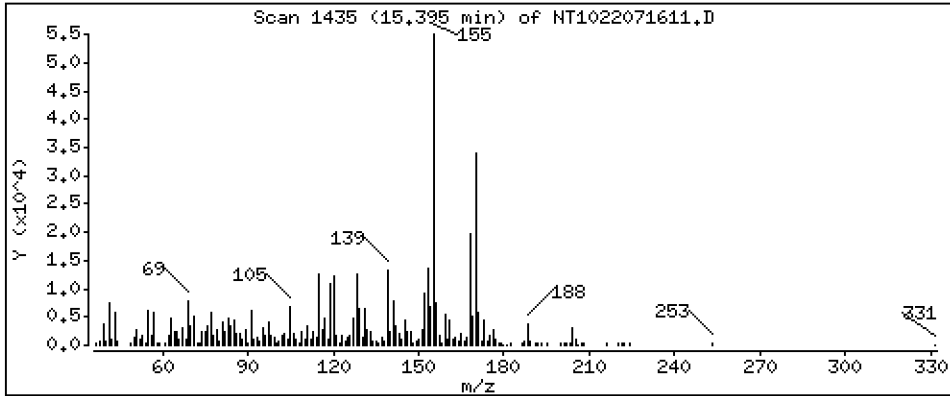
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 28,91 ug/mL



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

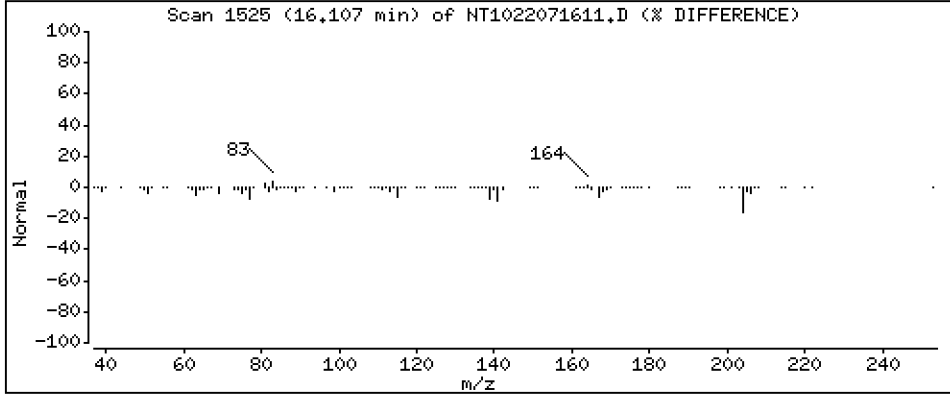
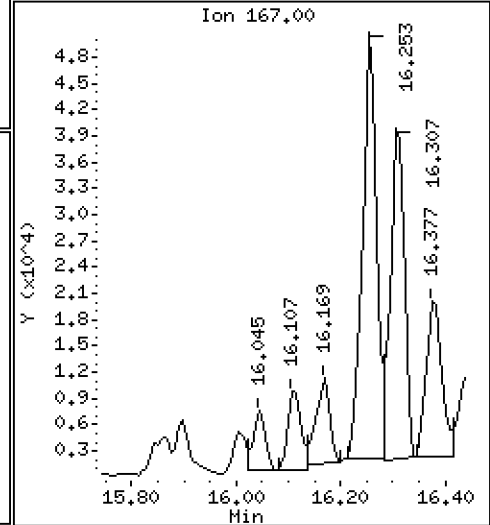
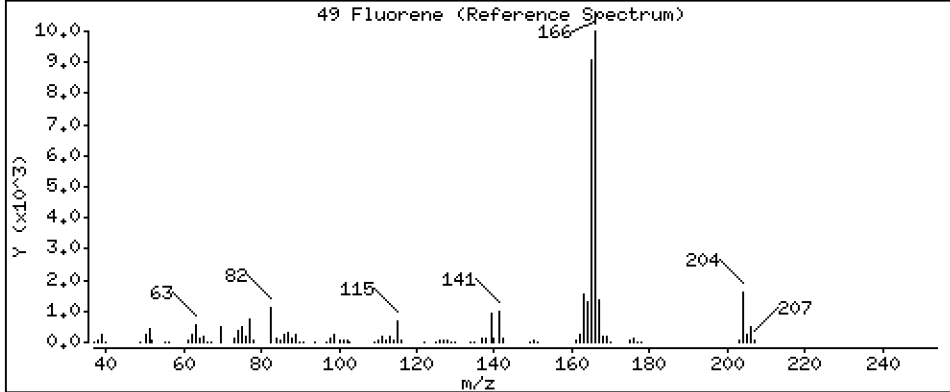
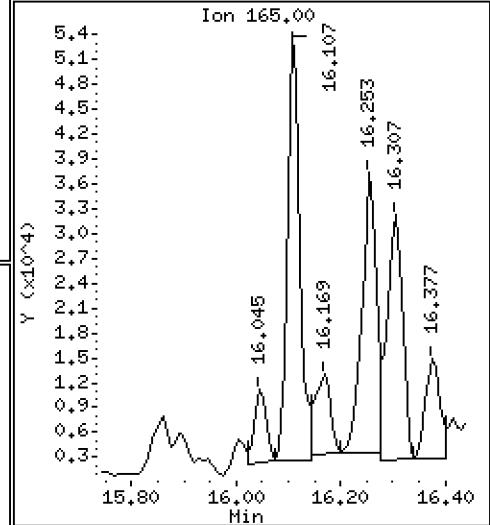
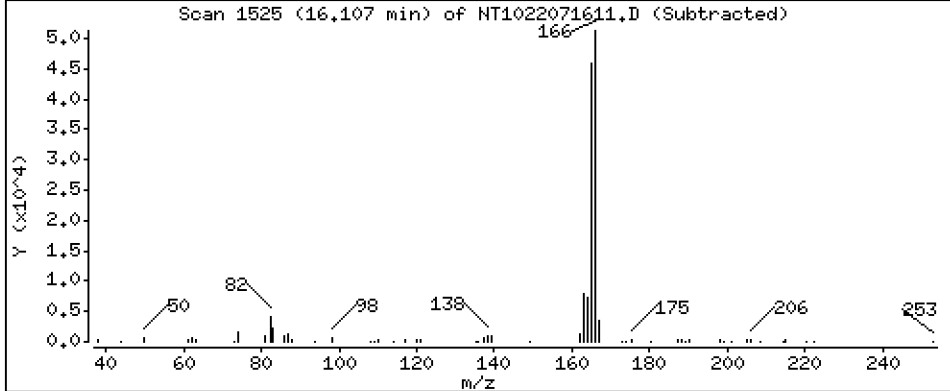
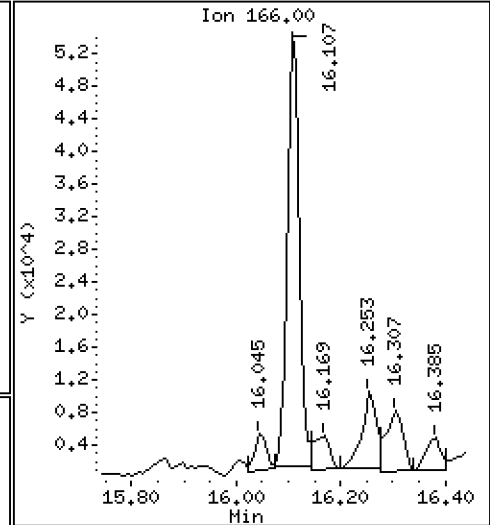
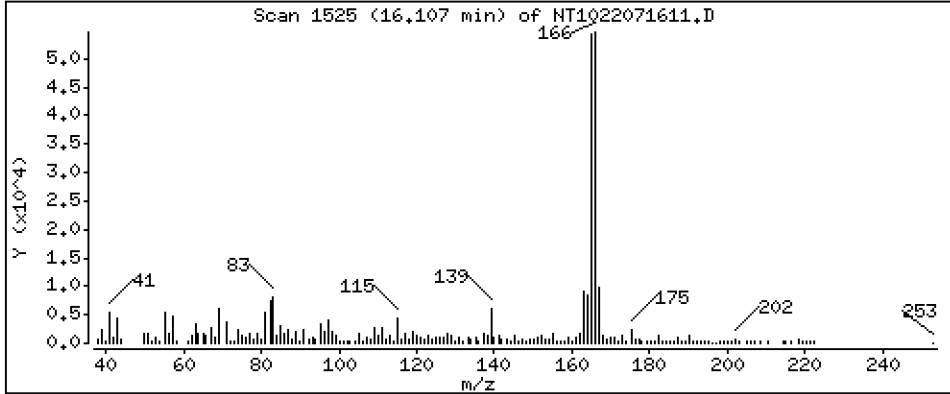
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 65,98 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

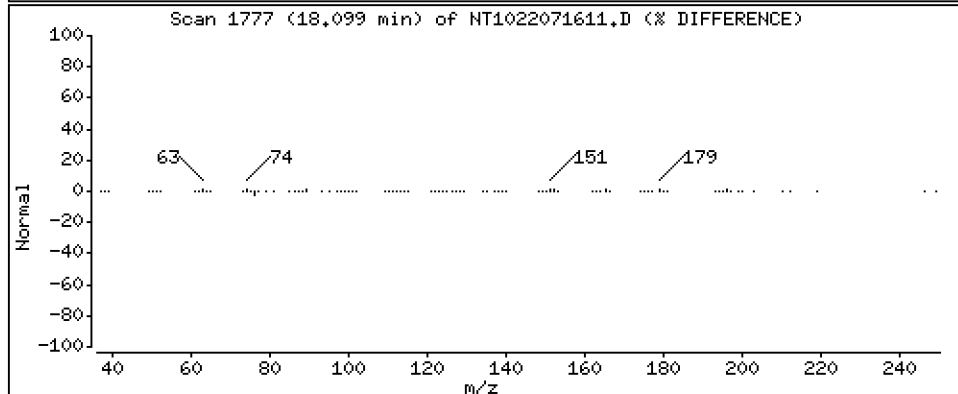
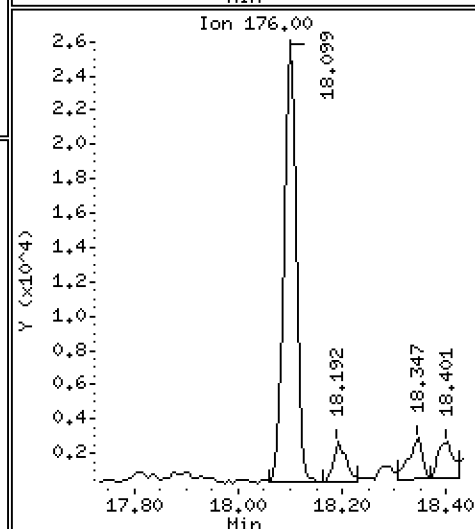
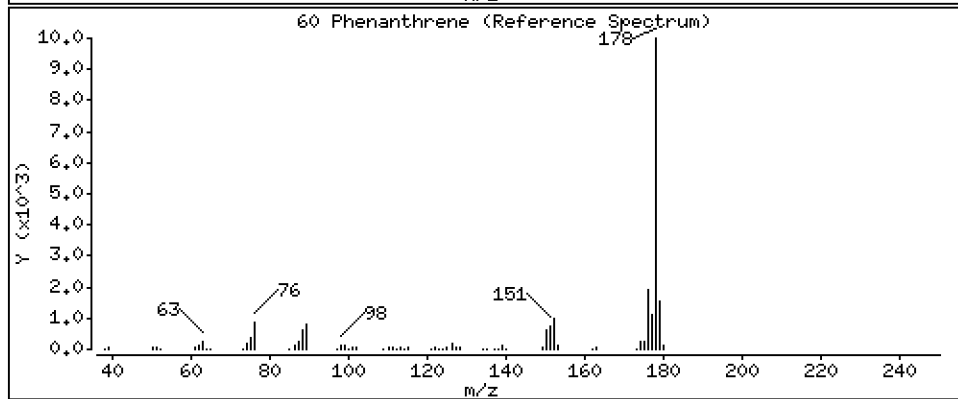
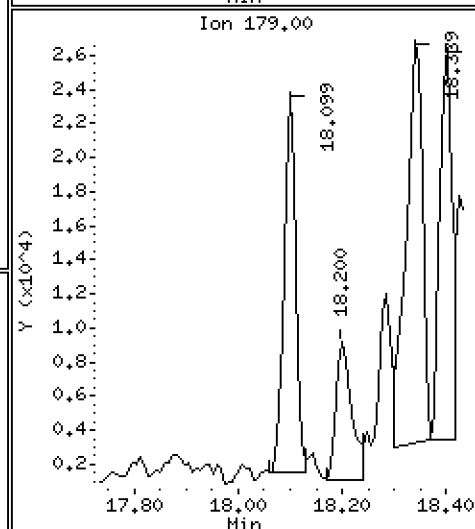
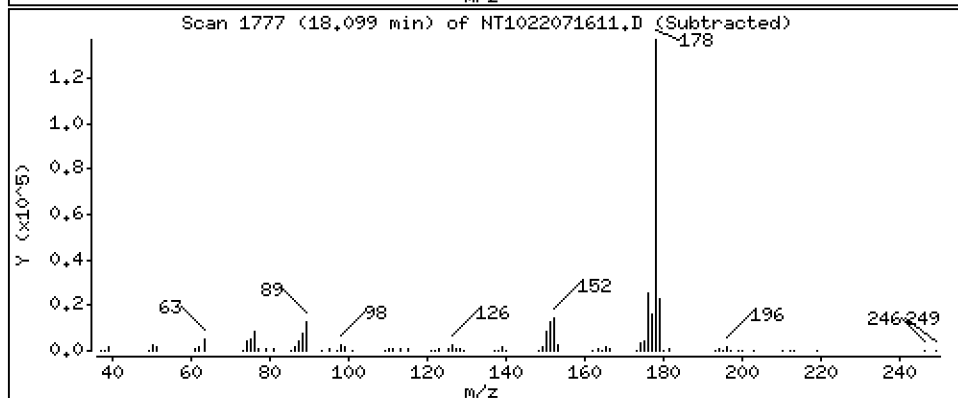
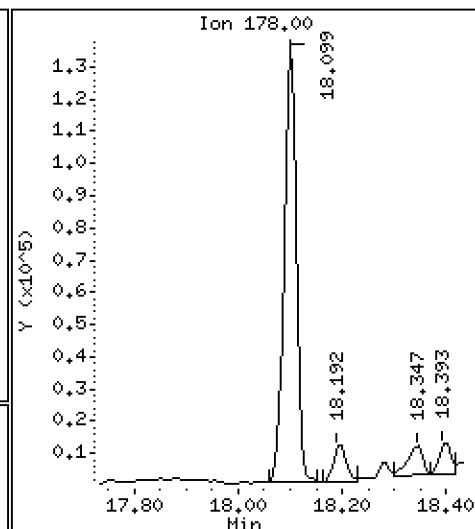
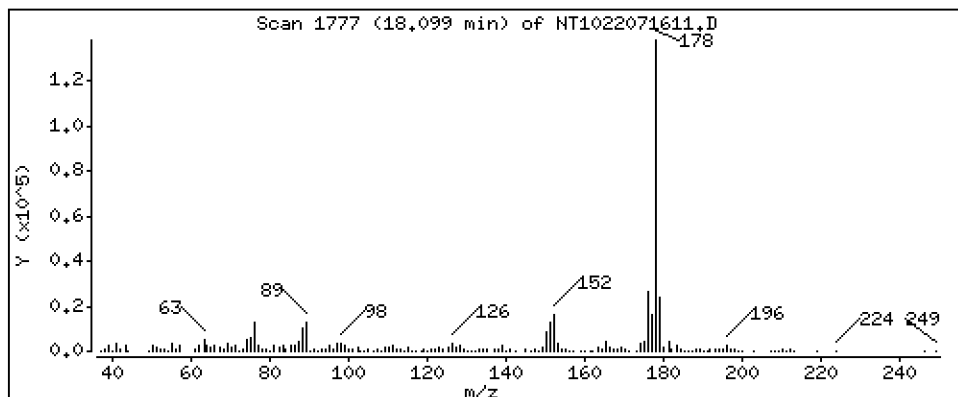
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 185,8 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

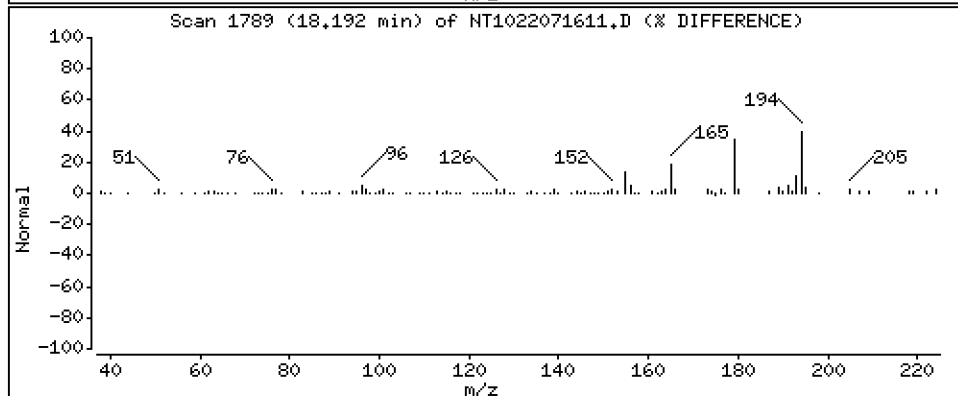
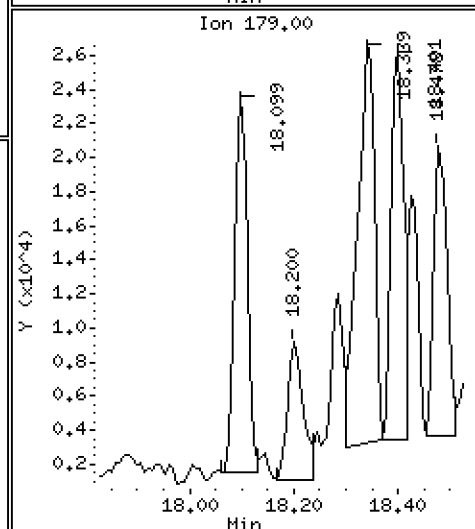
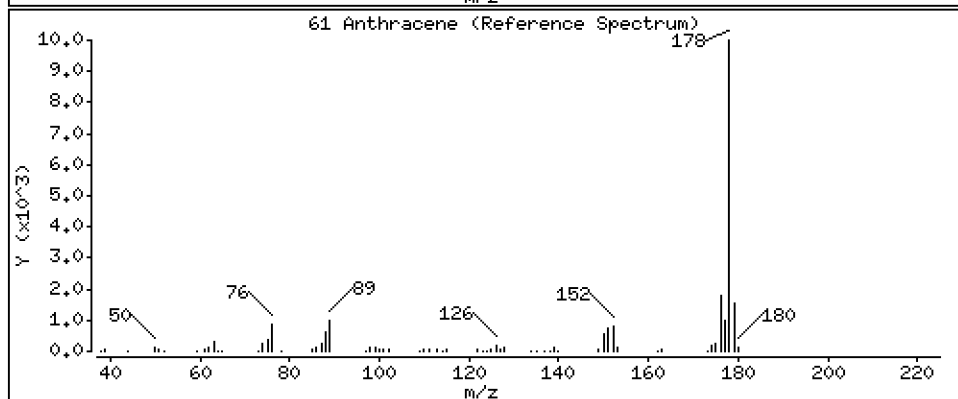
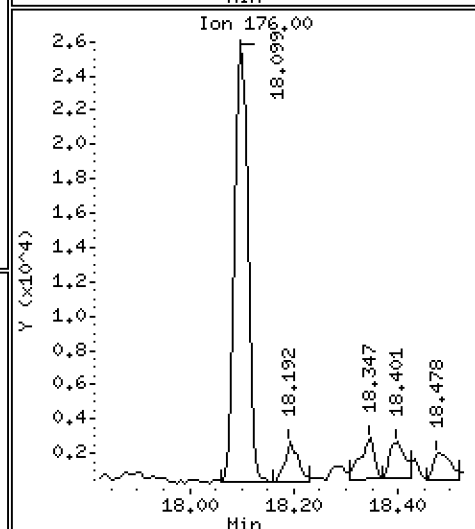
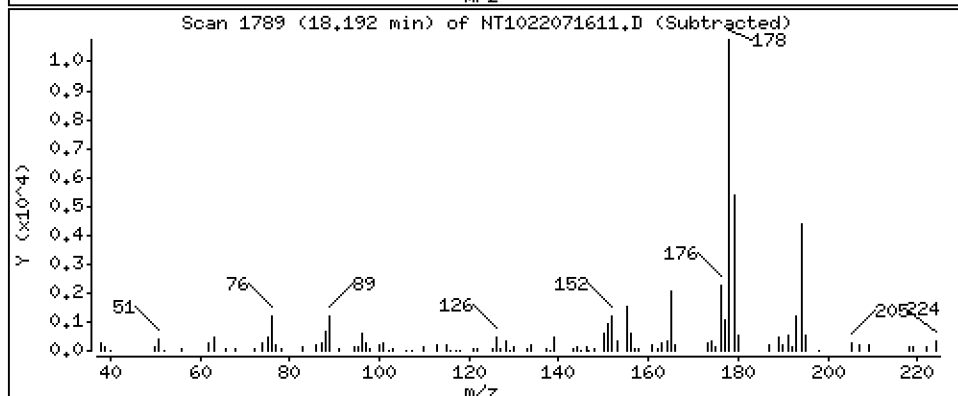
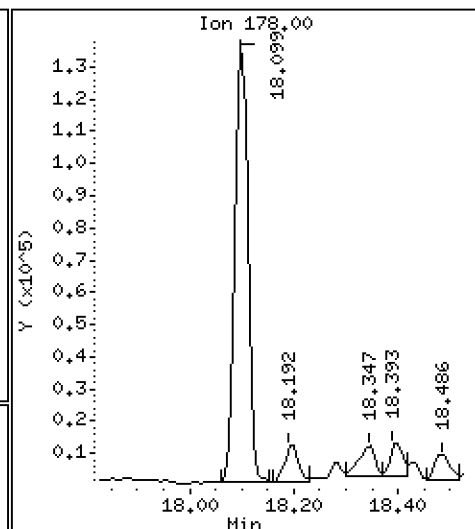
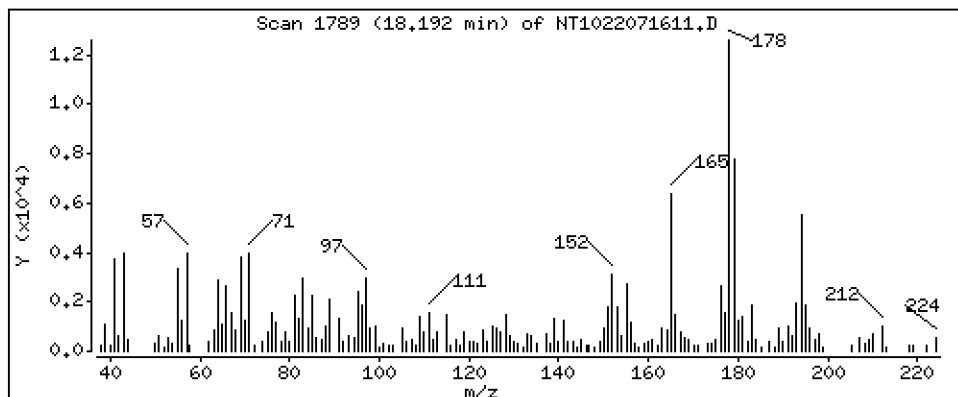
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 15,22 ug/mL



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

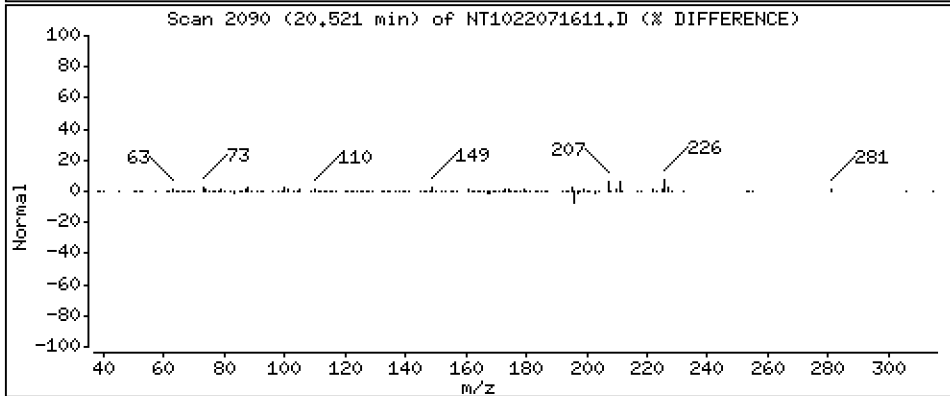
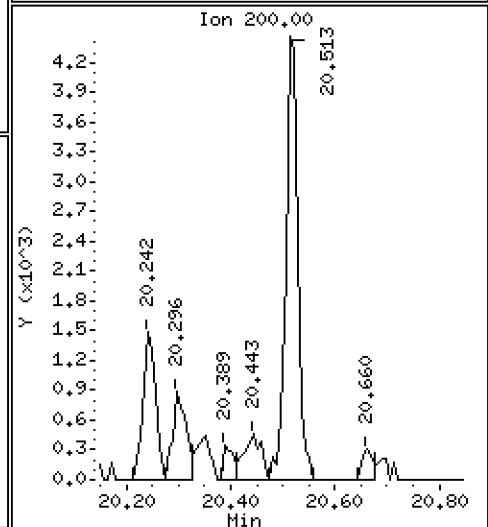
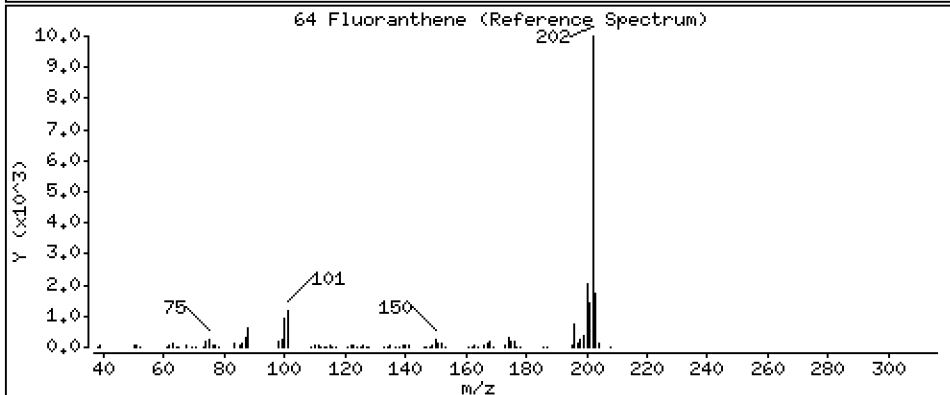
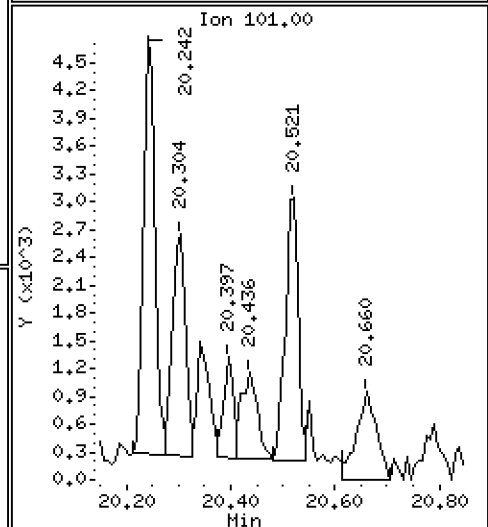
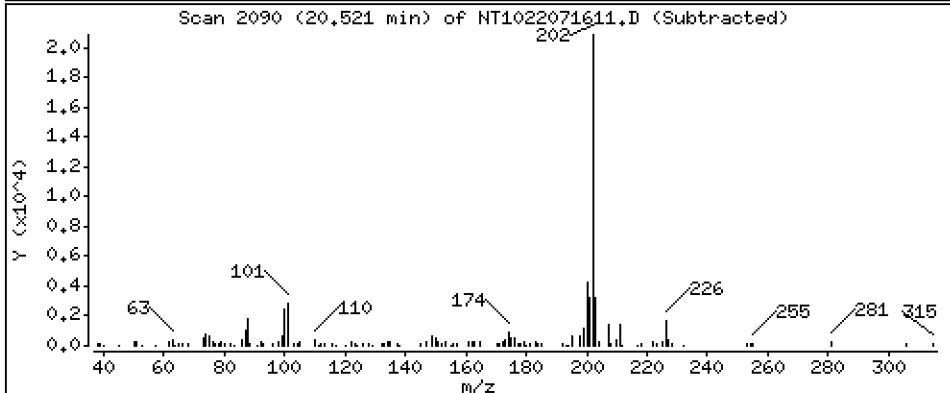
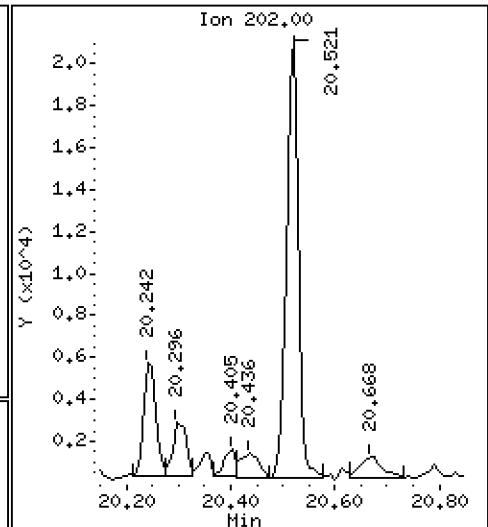
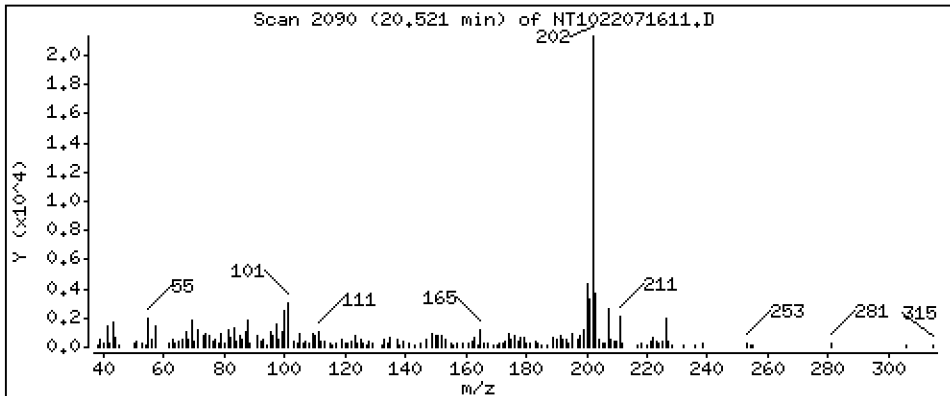
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 12,89 ug/mL



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

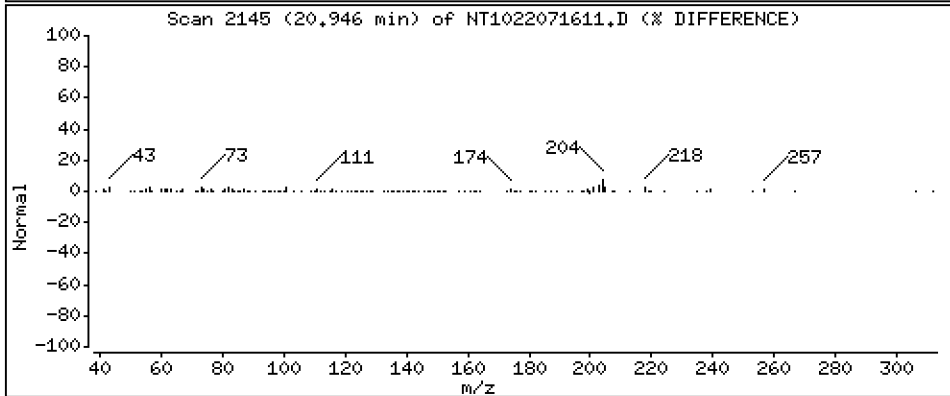
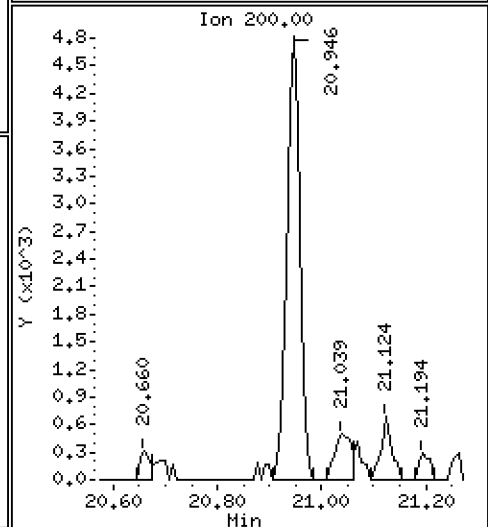
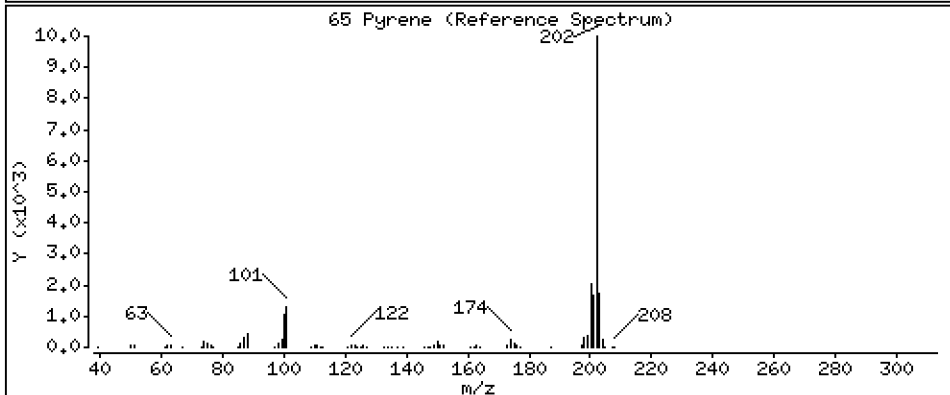
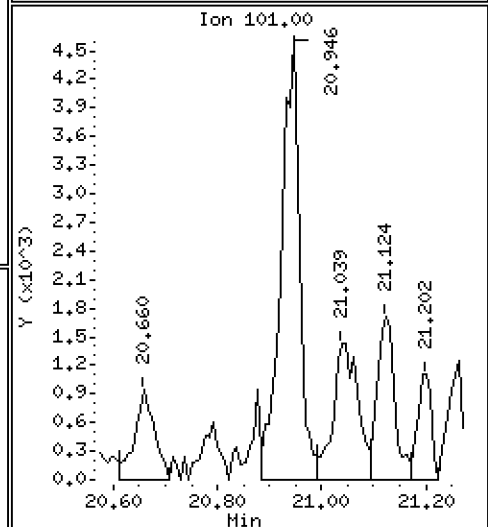
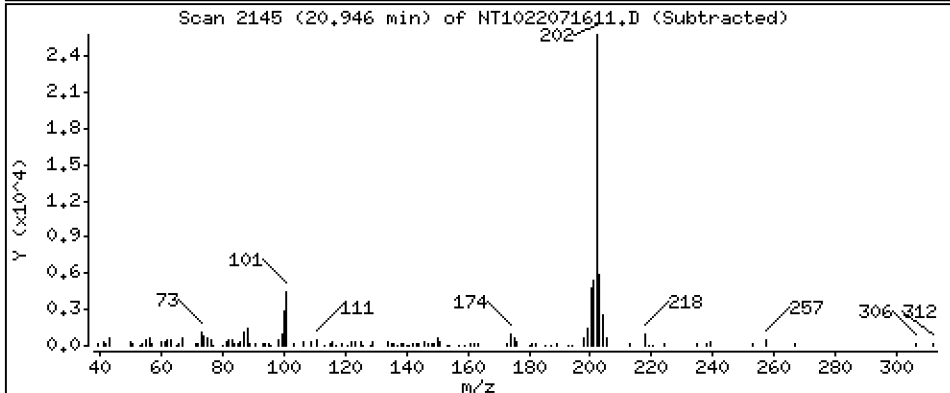
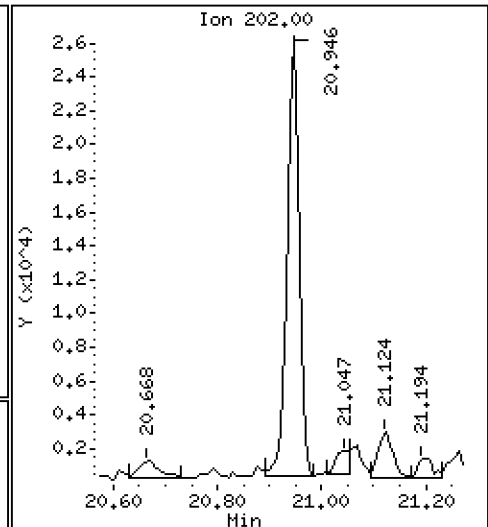
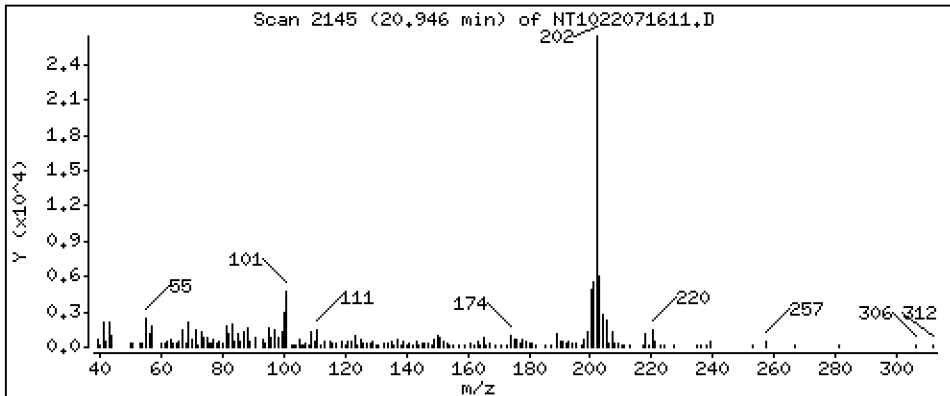
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 18,84 ug/mL



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

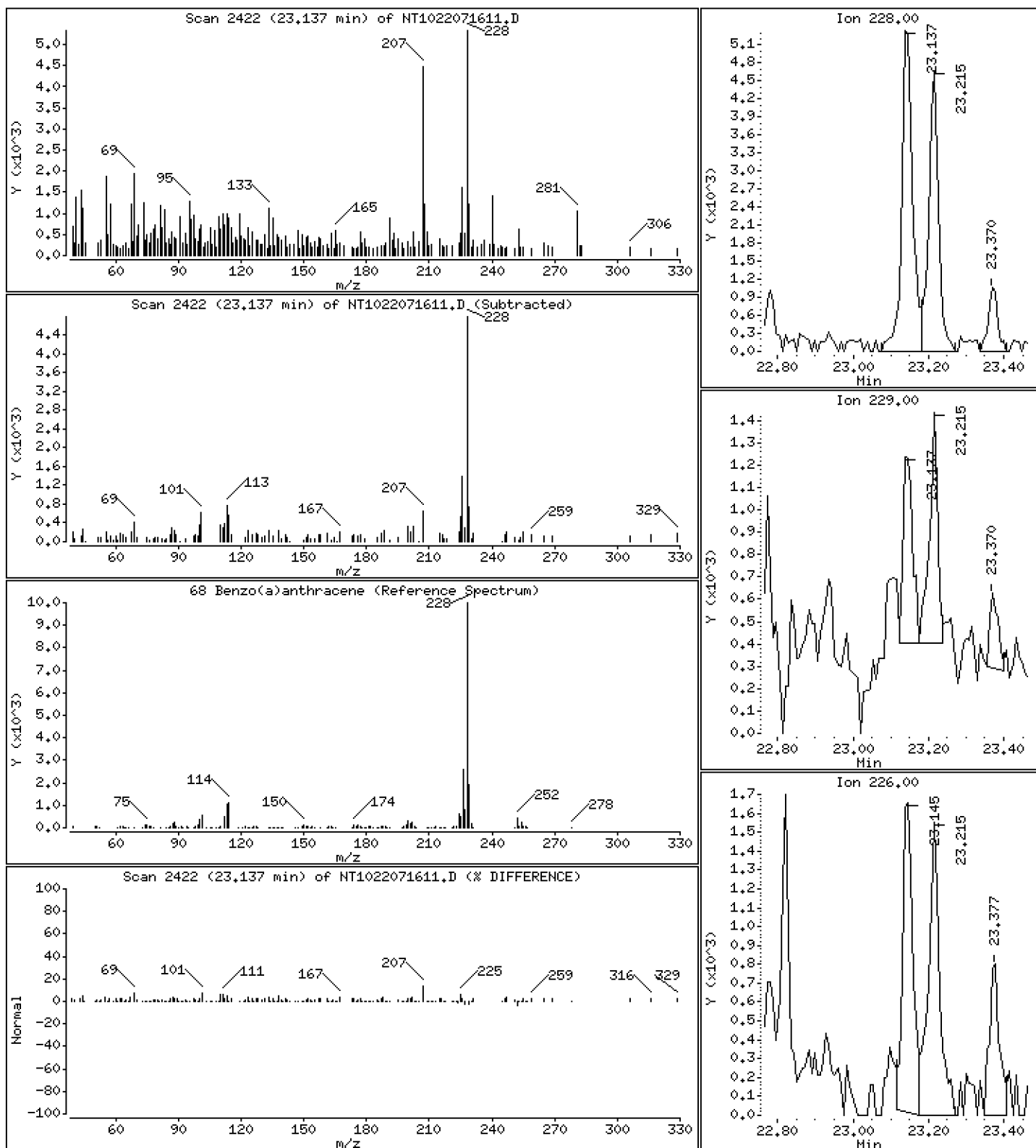
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 7.351 ug/mL



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

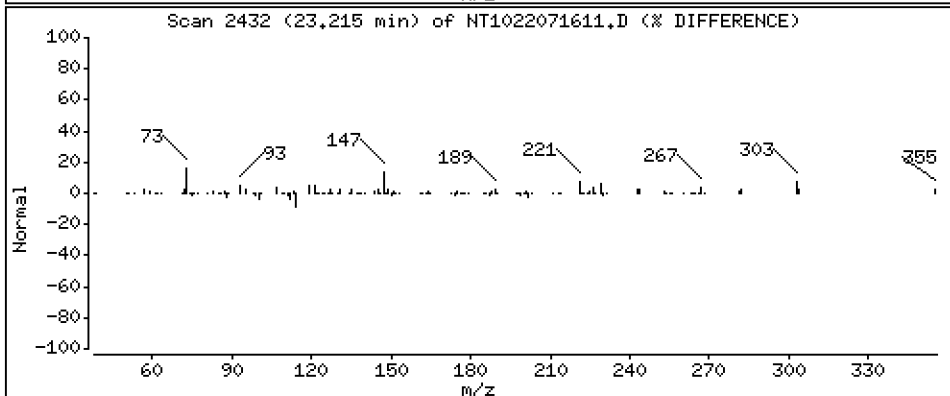
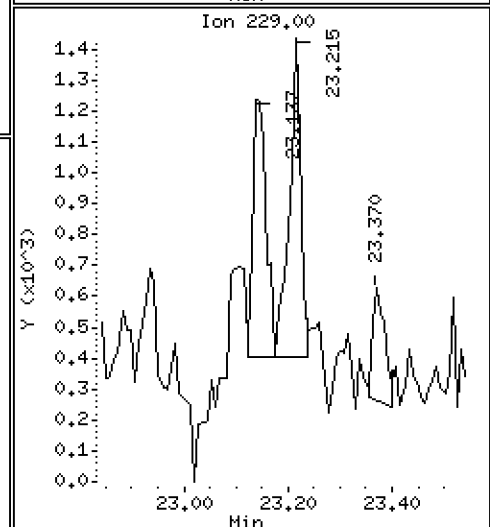
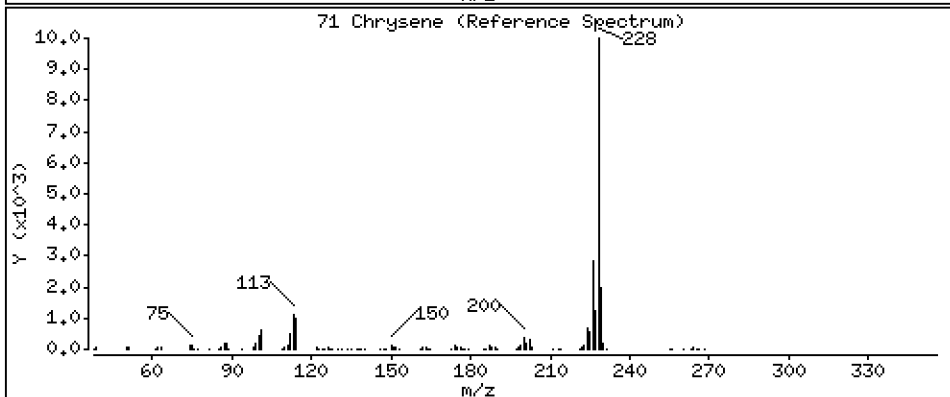
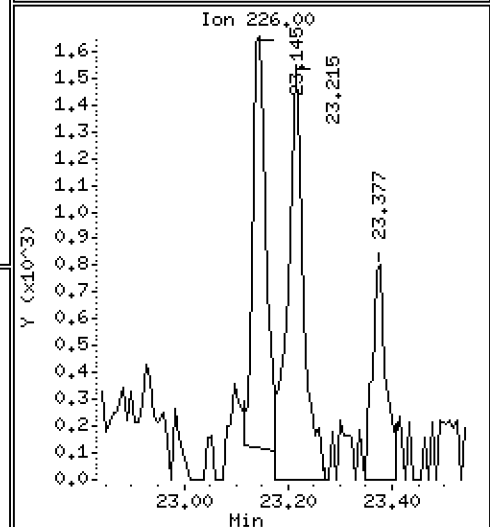
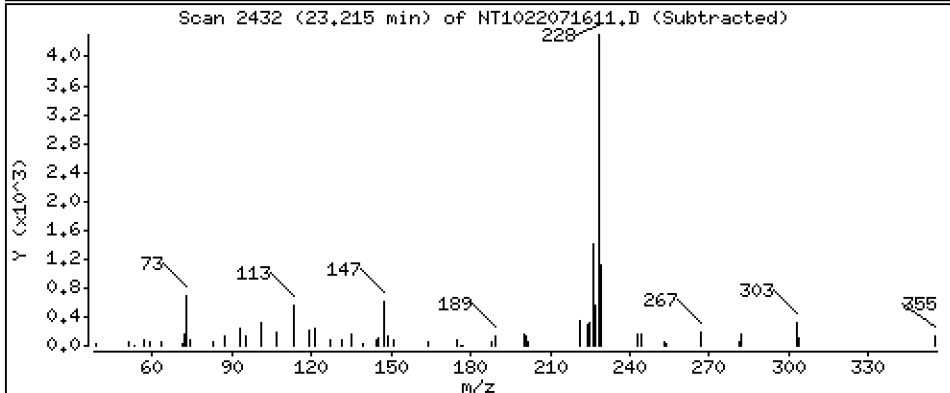
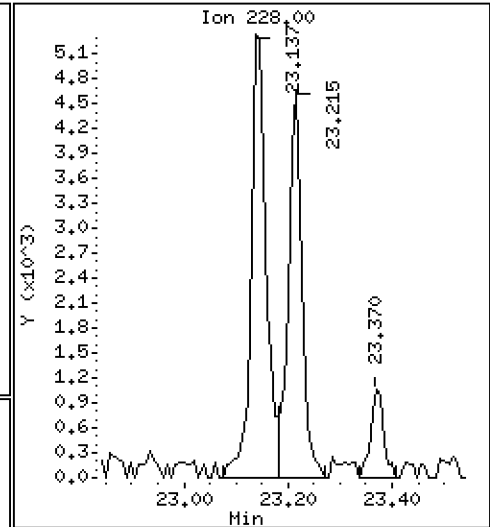
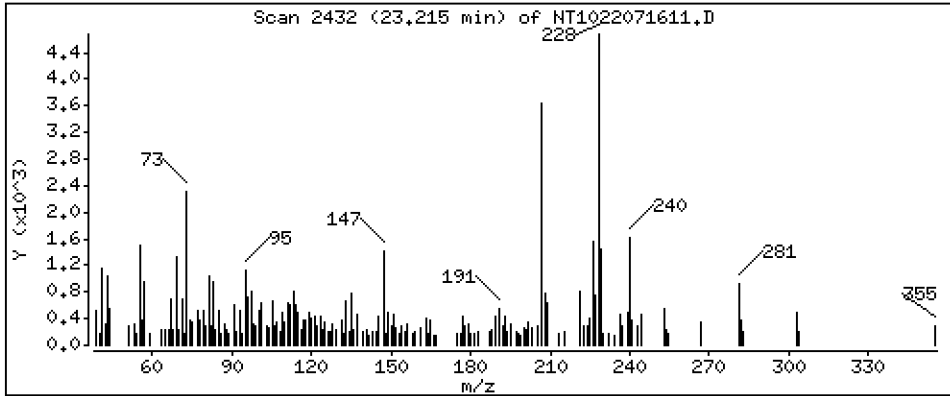
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 8,569 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

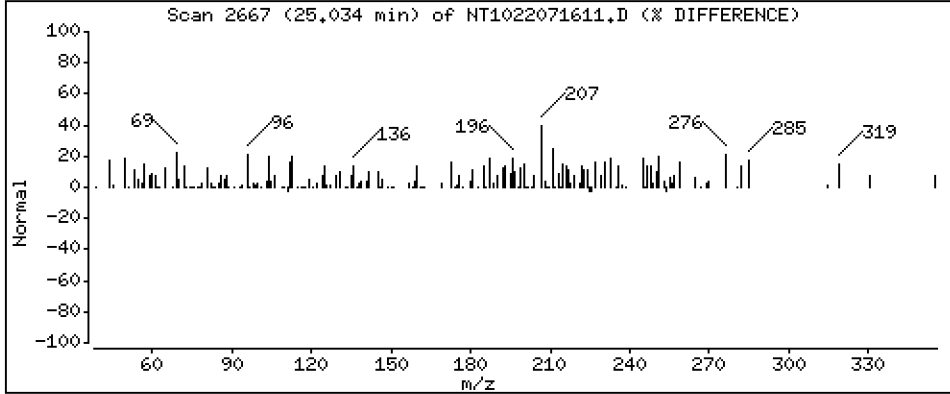
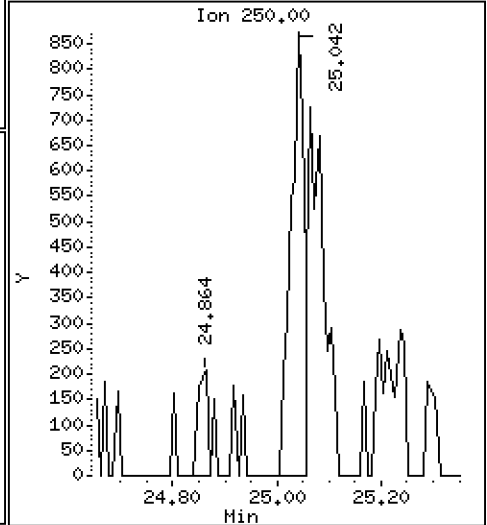
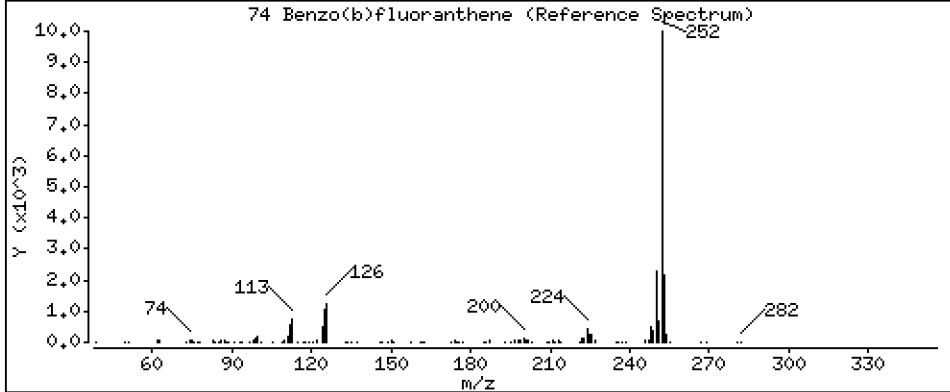
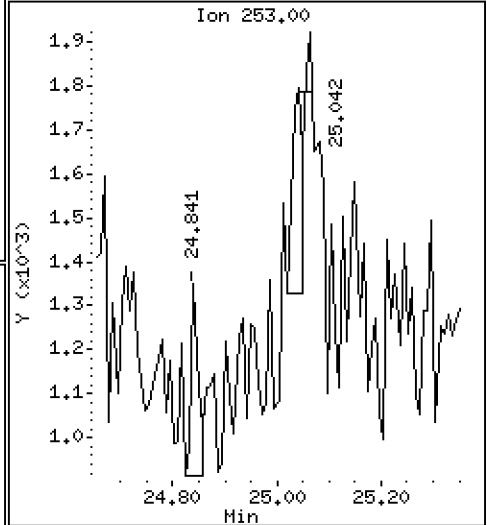
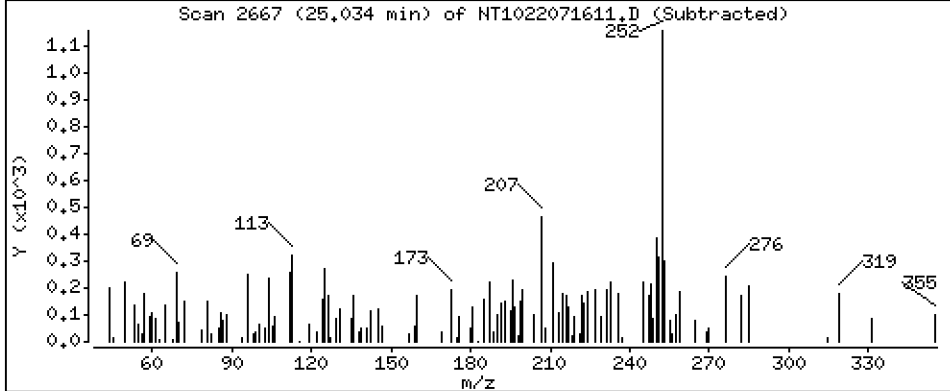
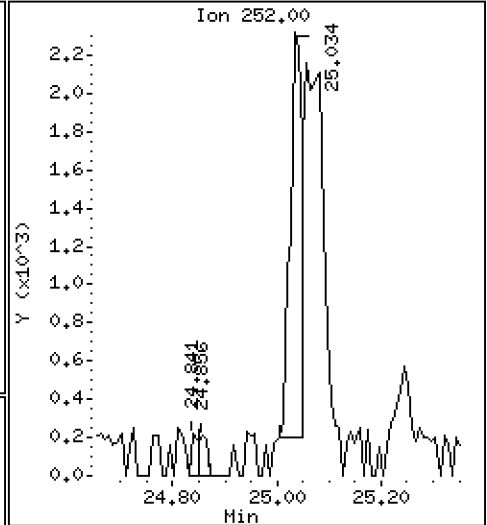
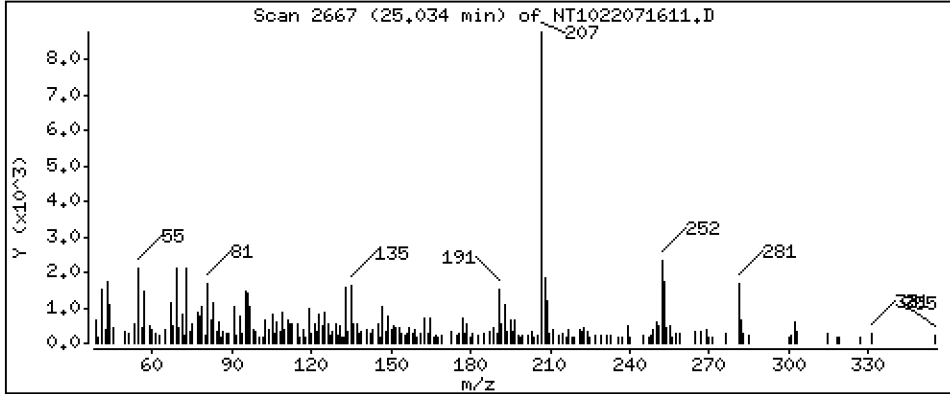
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 3,251 ug/mL



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

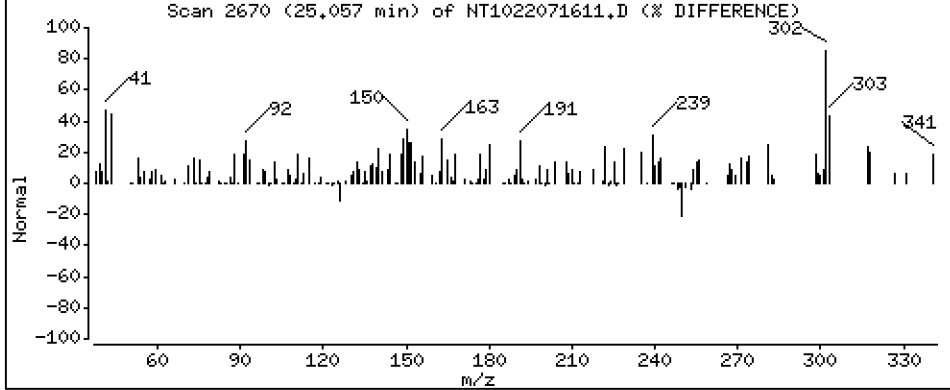
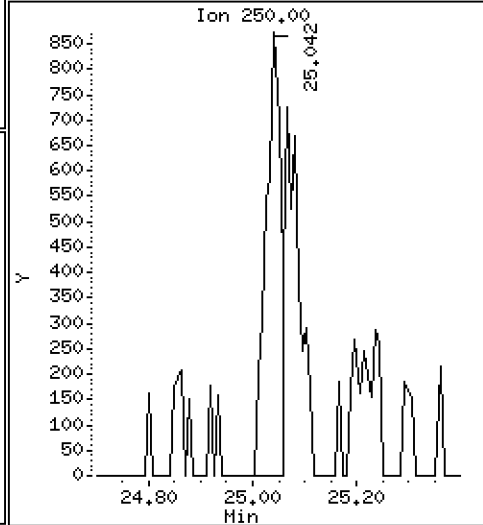
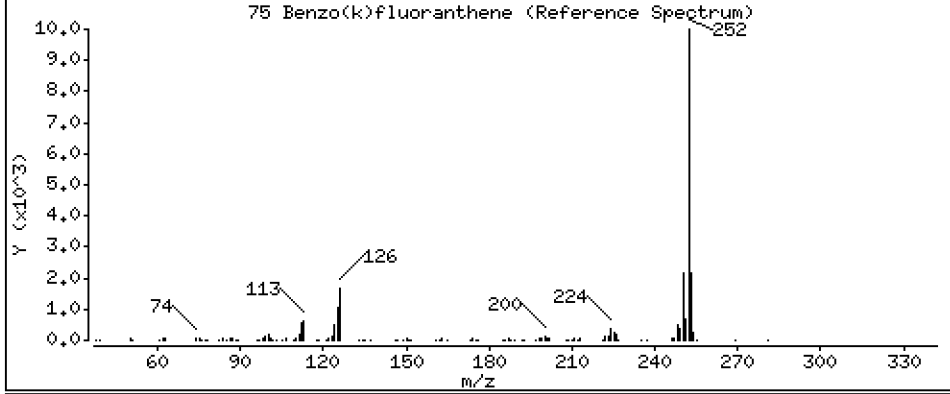
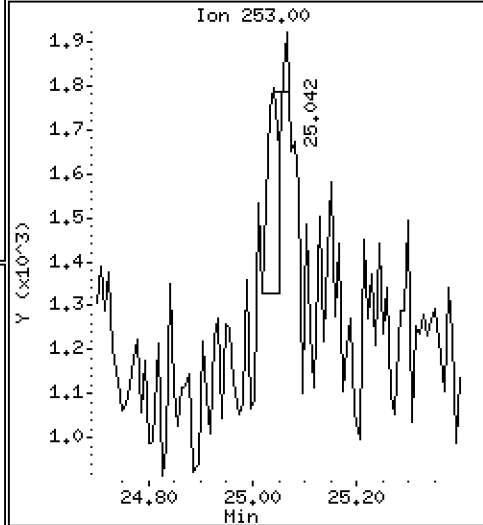
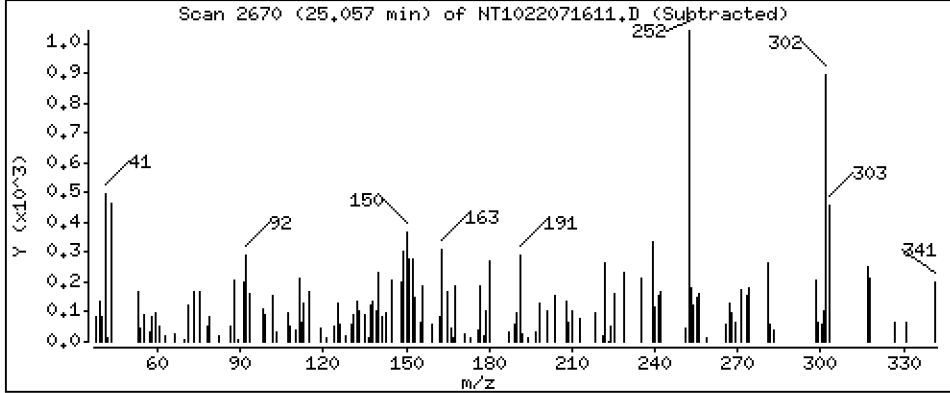
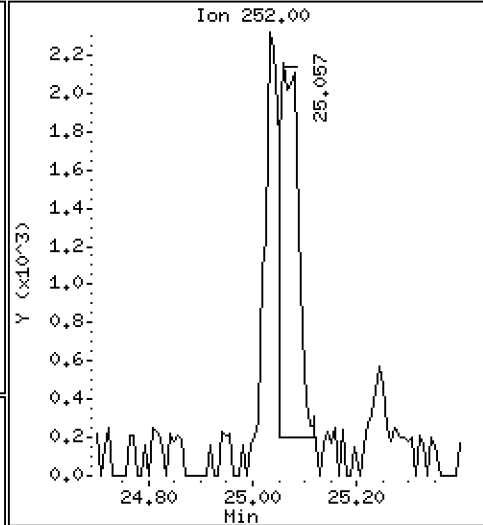
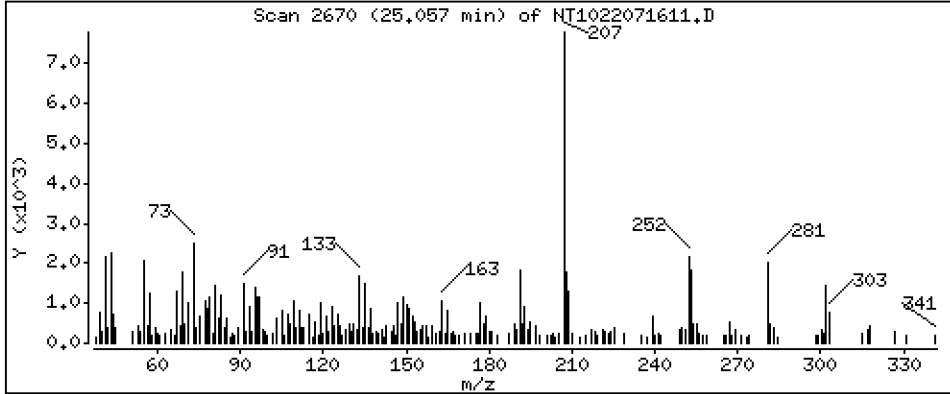
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,821 ug/mL



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

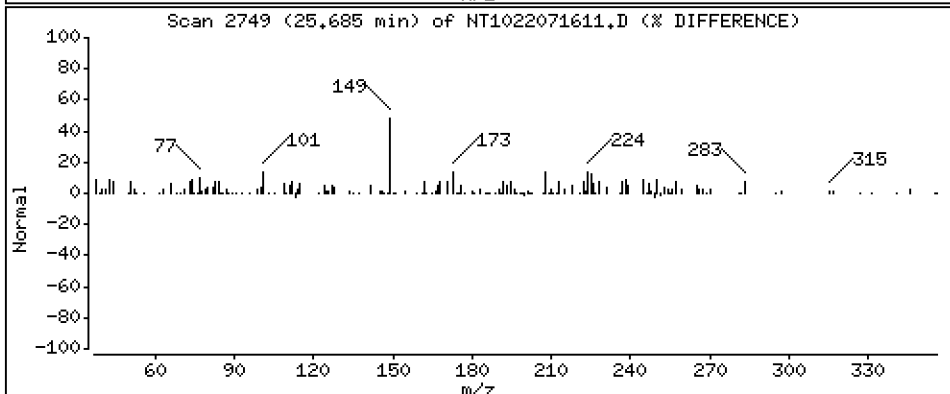
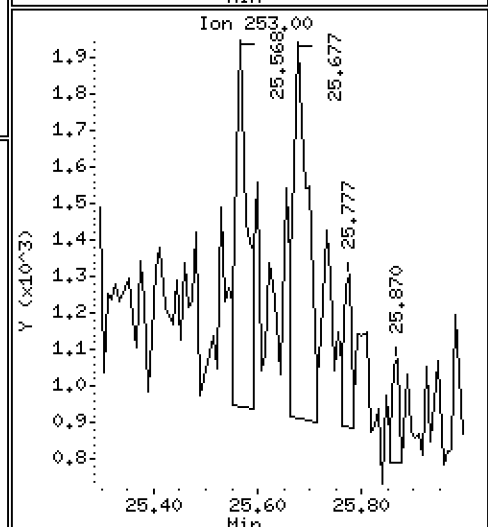
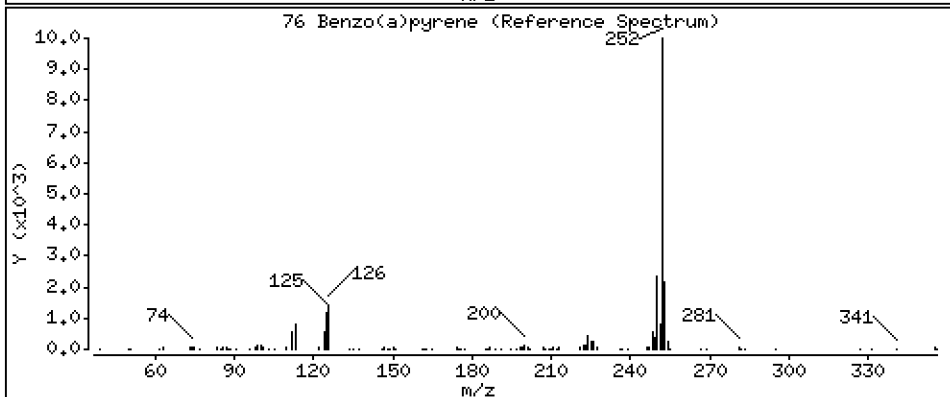
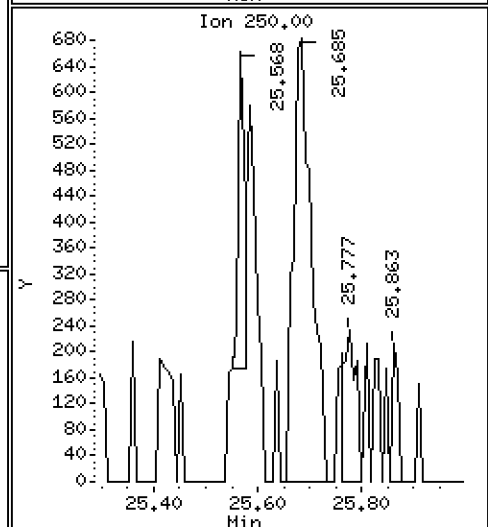
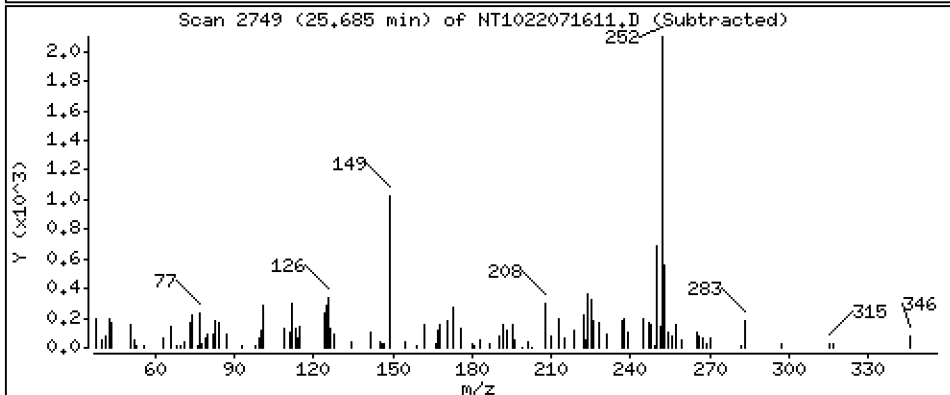
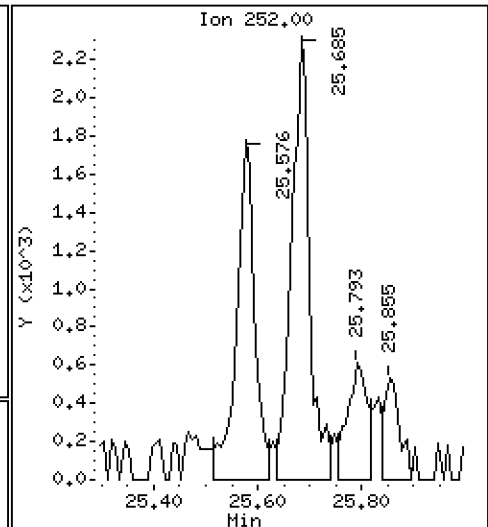
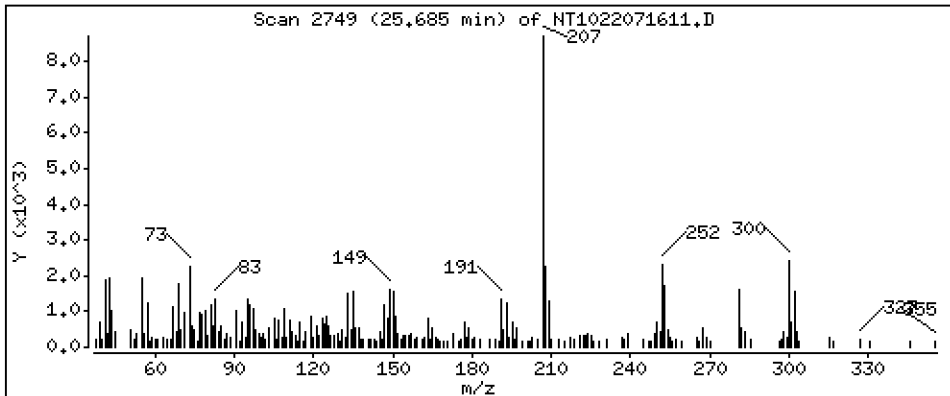
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 6,411 ug/mL



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

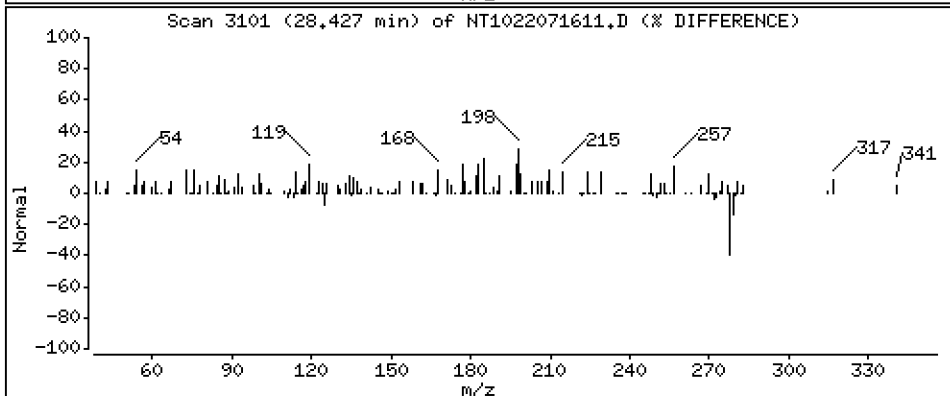
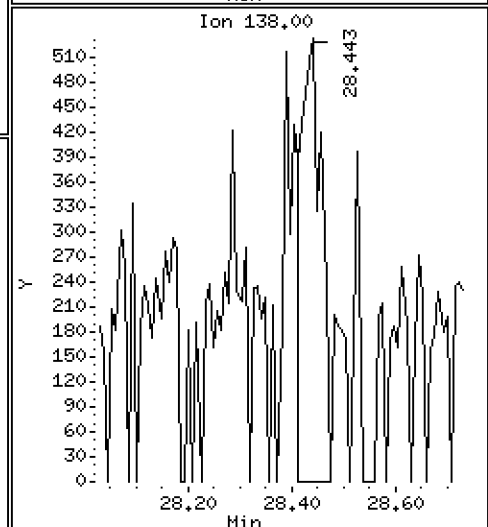
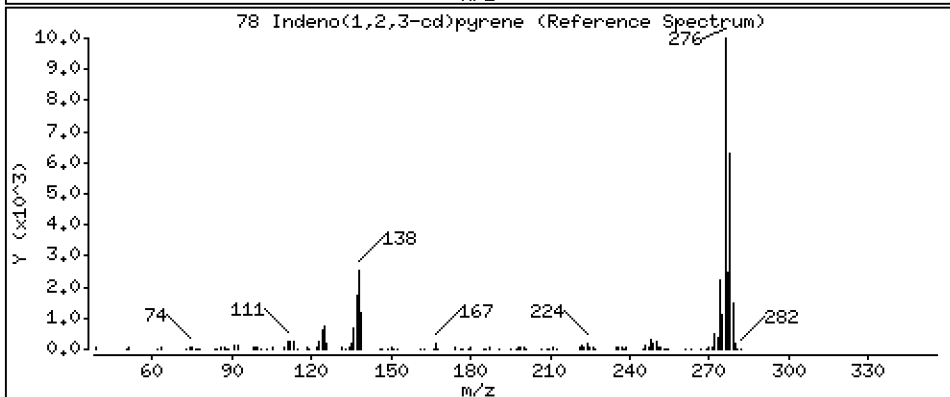
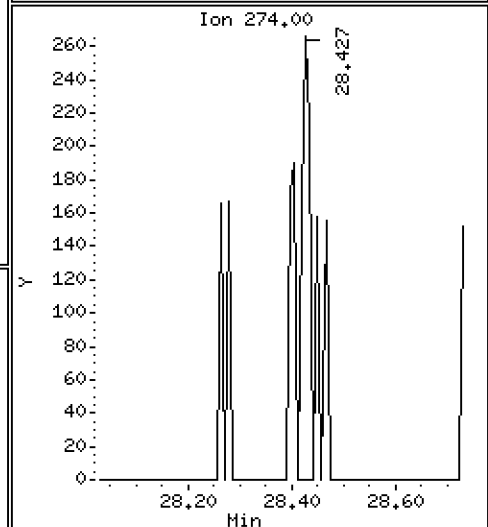
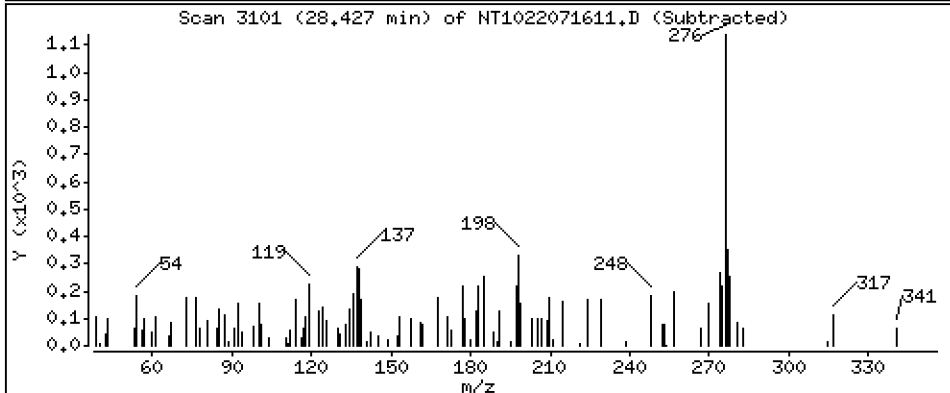
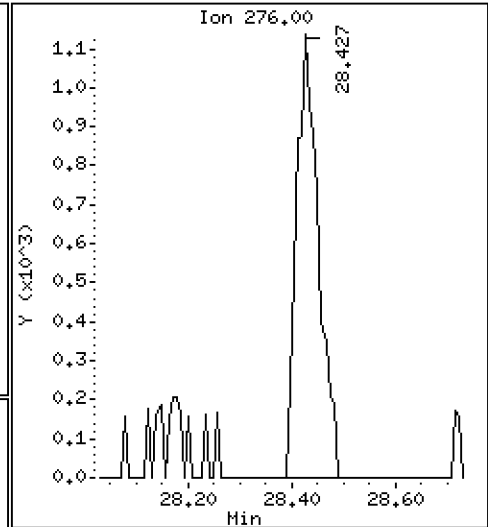
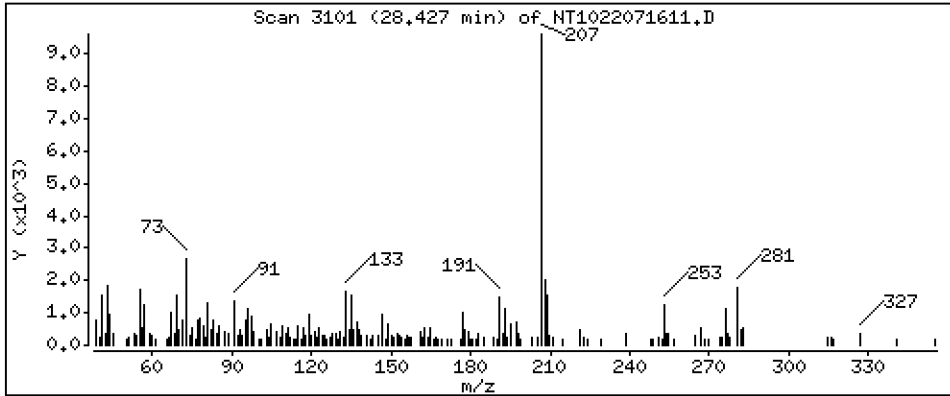
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 3,566 ug/mL



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

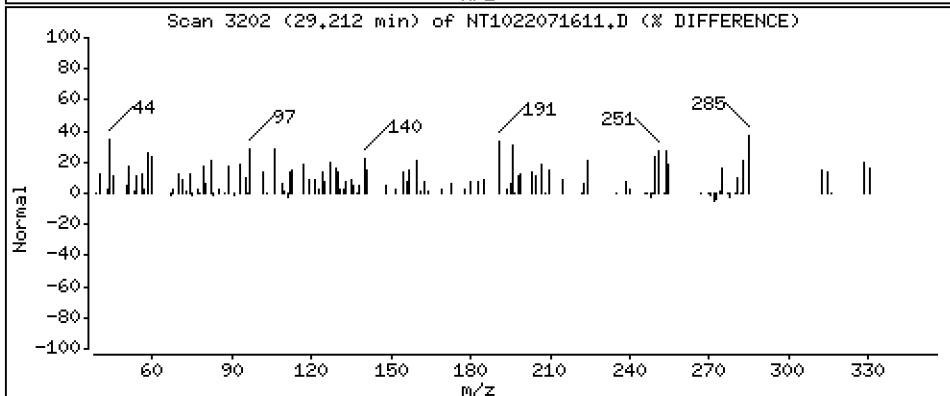
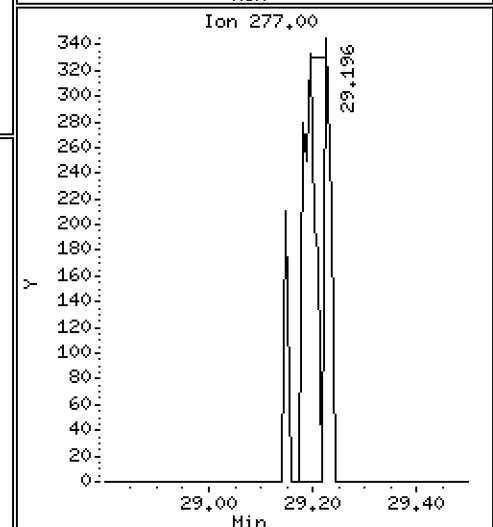
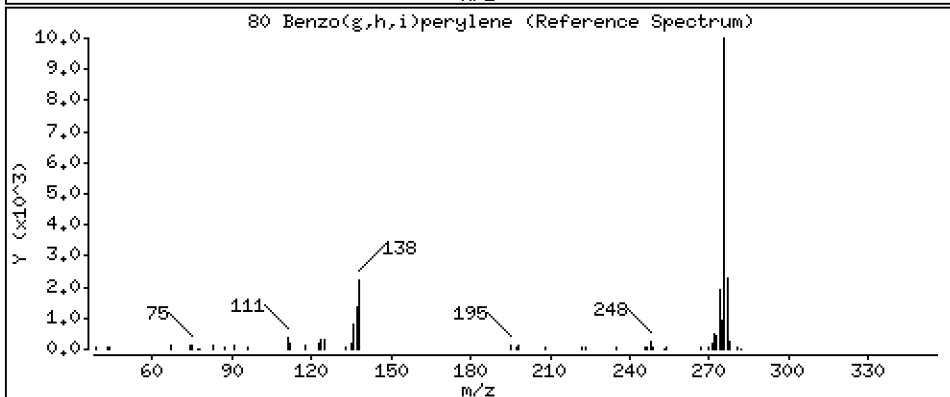
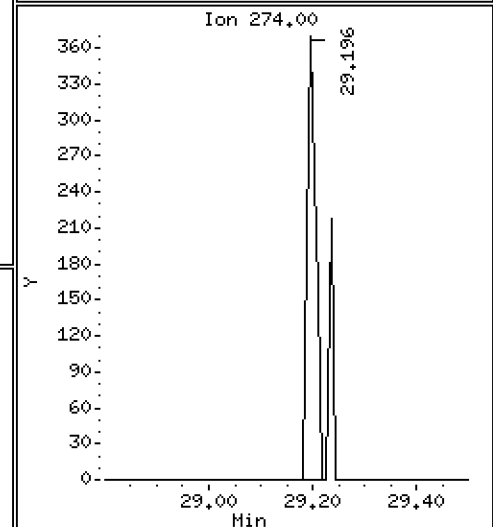
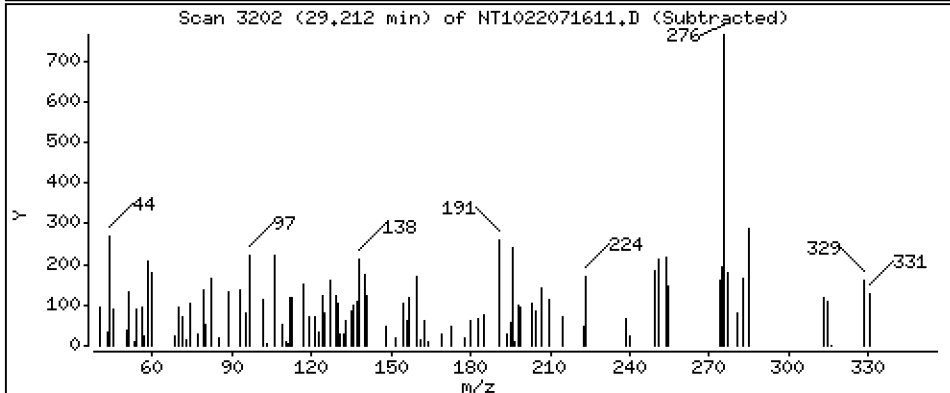
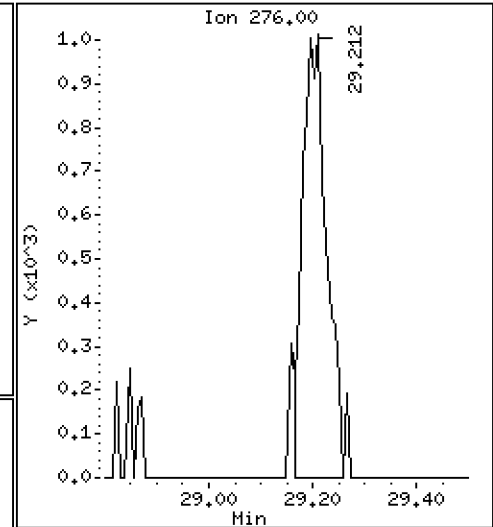
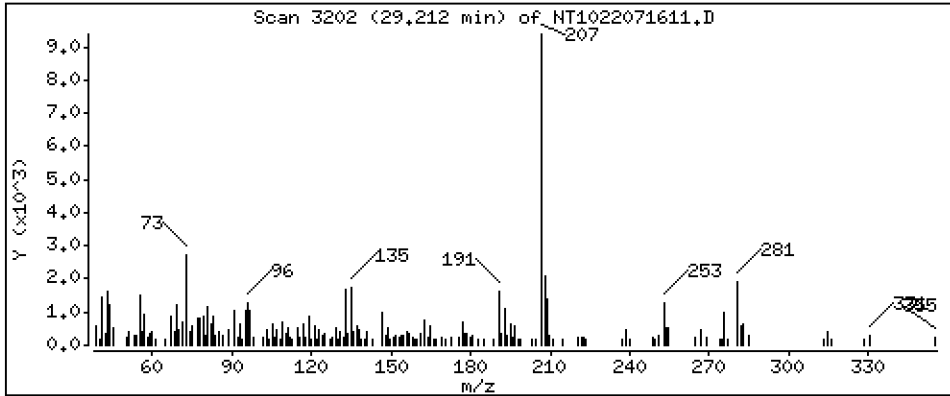
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,380 ug/mL



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

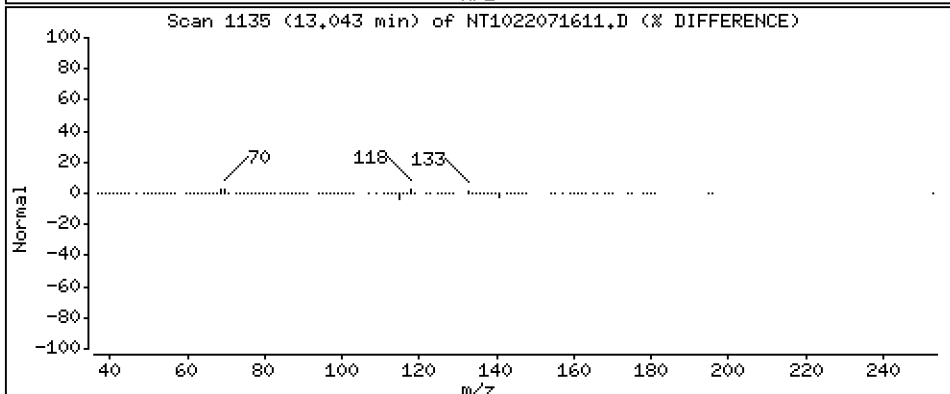
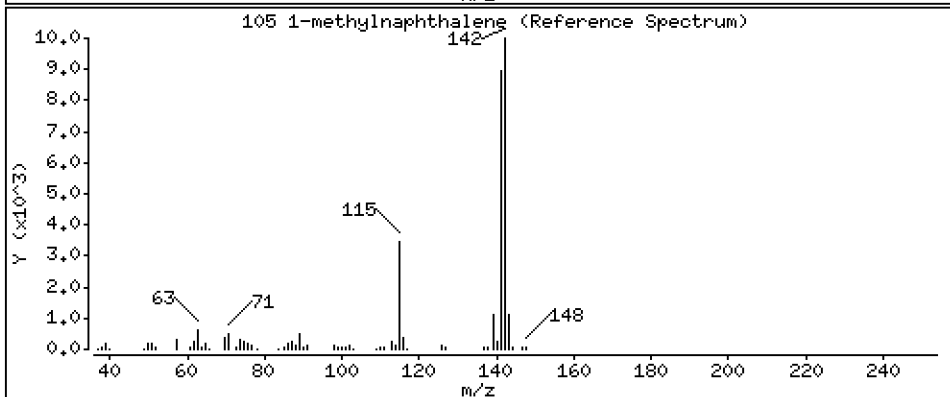
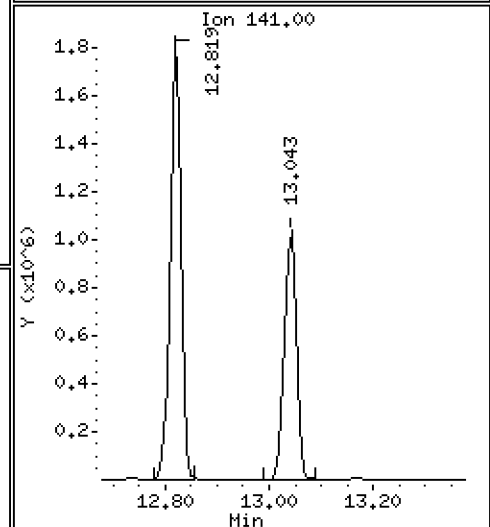
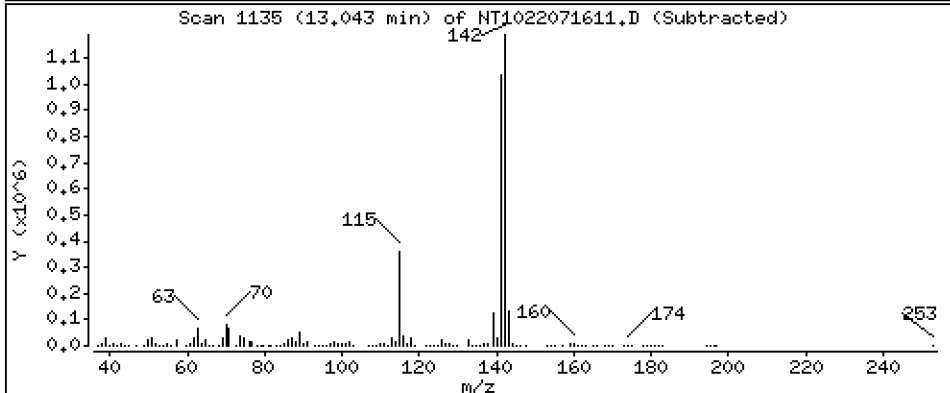
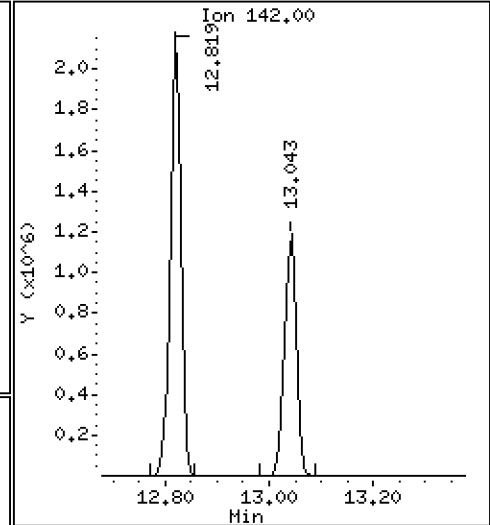
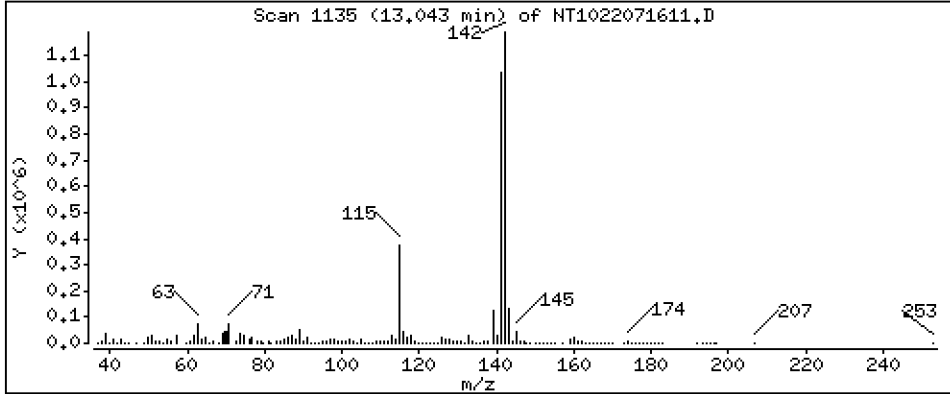
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 812,9 ug/mL



Date : 16-JUL-2022 17:04

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-09RE2,100

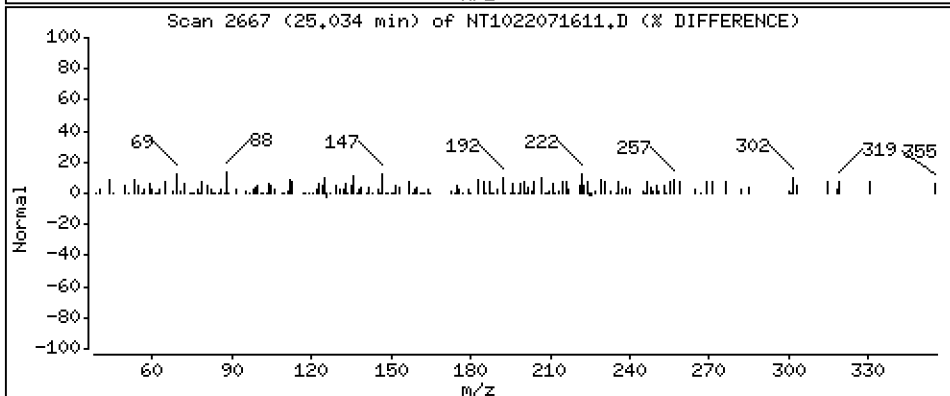
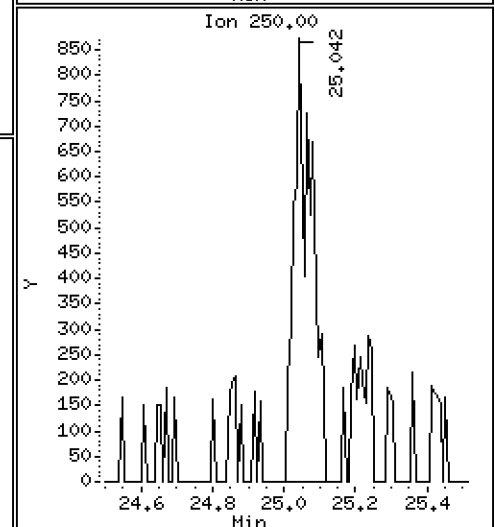
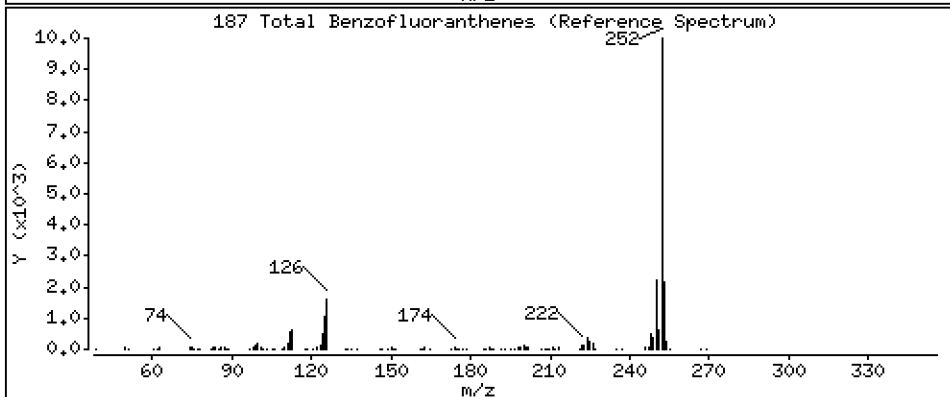
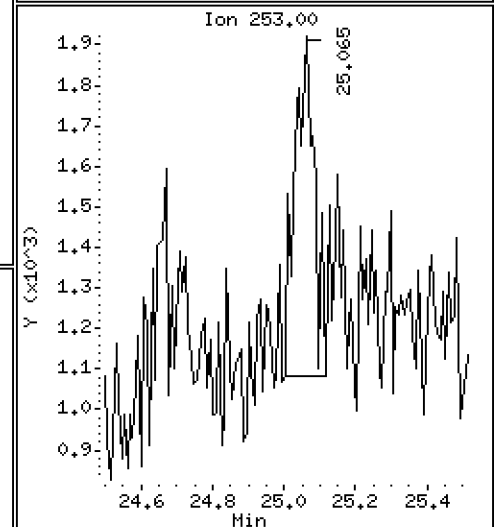
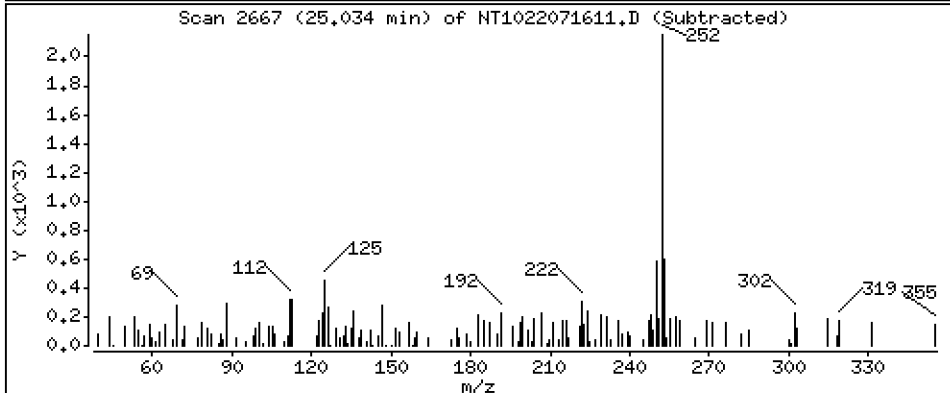
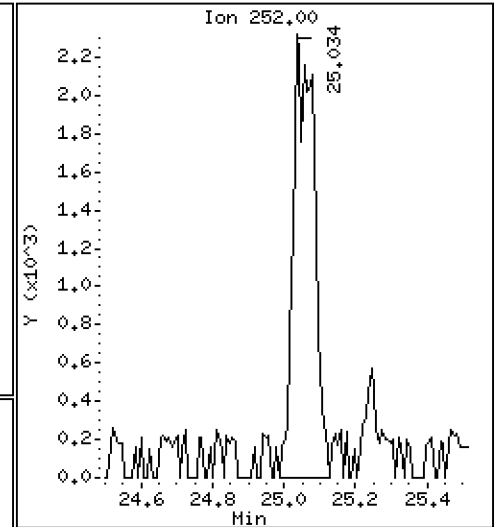
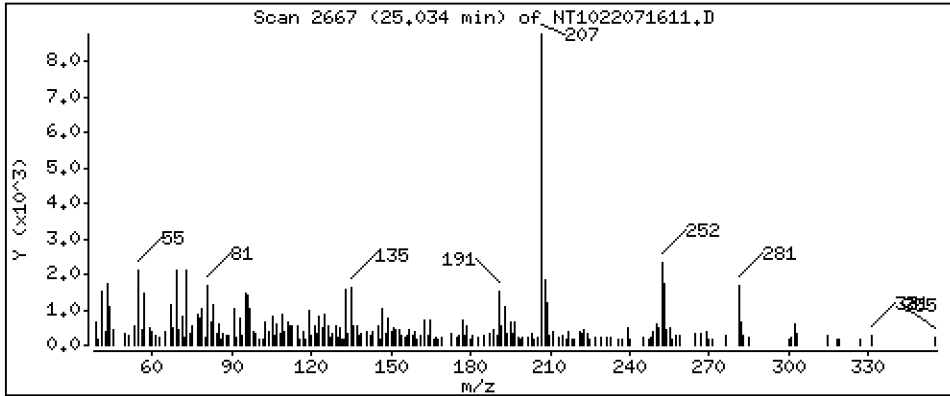
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,308 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220716A.b\NT1022071611.D
 Lab Smp Id: 22G0019-09RE2
 Inj Date : 16-JUL-2022 17:04
 Operator : VTS
 Smp Info : 22G0019-09RE2,100
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220716A.b\ABN.m
 Meth Date : 19-Jul-2022 07:18 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 10
 Dil Factor: 100.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.705	6.697	(0.754)	7350	0.06105	6.105
\$ 2 Phenol-d5	99		8.297	8.289	(0.933)	7071	0.03958	3.958
3 Phenol	94		Compound Not Detected.					
\$ 5 2-Chlorophenol-d4	132		8.552	8.536	(0.962)	6995	0.05702	5.702
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		8.892	8.892	(1.000)	329704	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.256	9.249	(1.041)	3596	0.04757	4.757 (M)
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		9.986	9.978	(0.878)	6863	0.07197	7.197
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.380	11.372	(1.000)	896124	4.00000	
28 Naphthalene	128		11.418	11.411	(1.003)	105859	0.46157	46.16
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		12.818	12.803	(1.126)	3129766	13.7308	1373
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.600	13.592	(0.907)	9007	0.08203	8.203
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152							
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		14.993	14.985	(1.000)	242642	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.063	15.047	(1.005)	84330	1.19504	119.5
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.395	15.380	(1.027)	32418	0.28907	28.91
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		16.106	16.091	(1.074)	88415	0.65980	65.98
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330							
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.052	18.029	(1.000)	455332	4.00000	
60 Phenanthrene	178		18.099	18.083	(1.003)	222242	1.85783	185.8
61 Anthracene	178		18.191	18.176	(1.008)	19404	0.15221	15.22
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.520	20.497	(0.886)	33223	0.12890	12.89
65 Pyrene	202		20.946	20.923	(0.904)	42487	0.18839	18.84
\$ 66 Terphenyl-d14	244		21.248	21.225	(0.917)	6433	0.05032	5.032
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.137	23.114	(0.999)	11411	0.07351	7.351
* 69 Chrysene-d12	240		23.168	23.145	(1.000)	366354	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.214	23.191	(1.002)	8797	0.08569	8.569
72 bis(2-Ethylhexyl)phthalate	149							
* 134 Di-n-octylphthalate-d4	153		24.252	24.221	(1.000)	587369	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.034	25.003	(0.971)	3581	0.03251	3.251
75 Benzo(k)fluoranthene	252		25.057	25.049	(0.971)	5107	0.04821	4.821 (M)
76 Benzo(a)pyrene	252		25.684	25.646	(0.996)	5780	0.06411	6.411
* 77 Perylene-d12	264		25.792	25.754	(1.000)	243253	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.427	28.381	(1.102)	3433	0.03566	3.566
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276		29.212	29.150	(1.133)	3371	0.04380	4.380
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.043	13.027	(1.146)	1820369	8.12887	812.9
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.034	25.003	(0.971)	9561	0.09308	9.308 (M)	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 16-JUL-2022
 Lab File ID: NT1022071611.D Calibration Time: 13:33
 Lab Smp Id: 22G0019-09RE2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220716A.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	202557	101279	405114	329704	62.77
27 Naphthalene-d8	703953	351977	1407906	896124	27.30
42 Acenaphthene-d10	510125	255063	1020250	242642	-52.43
59 Phenanthrene-d10	646092	323046	1292184	455332	-29.53
69 Chrysene-d12	349304	174652	698608	366354	4.88
134 Di-n-octylphthala	599143	299572	1198286	587369	-1.97
77 Perylene-d12	184274	92137	368548	243253	32.01

<-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.89	8.39	9.39	8.89	-0.00
27 Naphthalene-d8	11.37	10.87	11.87	11.38	0.07
42 Acenaphthene-d10	14.99	14.49	15.49	14.99	0.05
59 Phenanthrene-d10	18.03	17.53	18.53	18.05	0.13
69 Chrysene-d12	23.15	22.65	23.65	23.17	0.10
134 Di-n-octylphthala	24.22	23.72	24.72	24.25	0.13
77 Perylene-d12	25.75	25.25	26.25	25.79	0.15

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

REVIEW SUMMARY FOR FILE - NT1022071611.D

Lab ID: 22G0019-09RE2
nt10.i, ABN.m, 16-JUL-2022 17:04

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

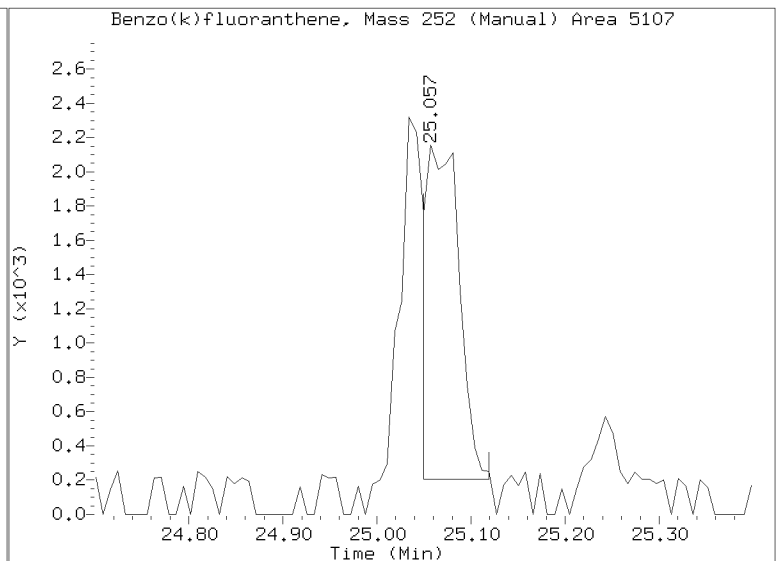
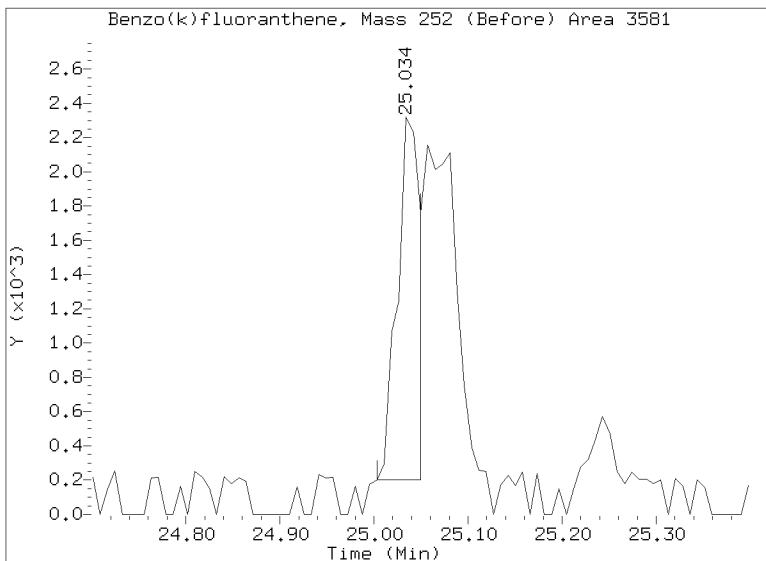
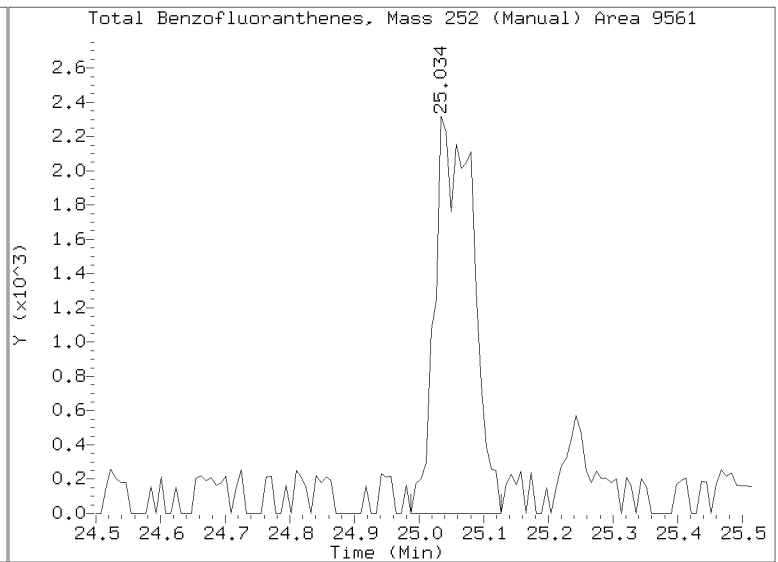
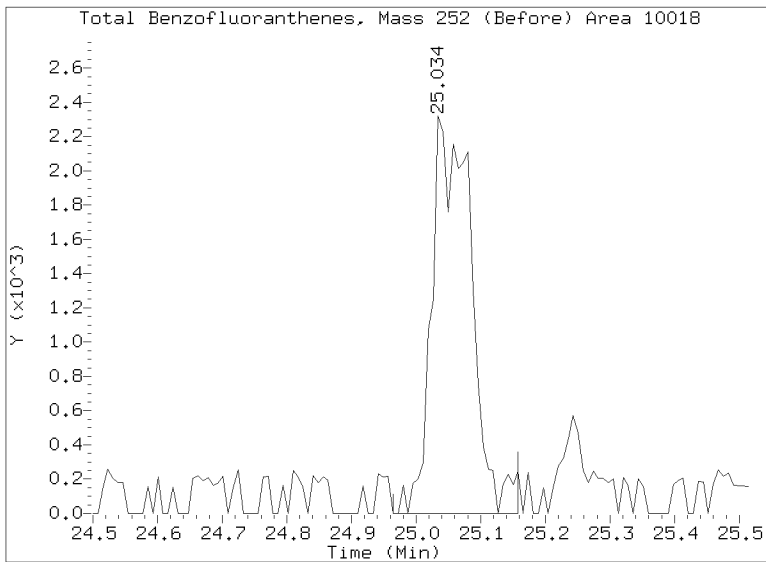
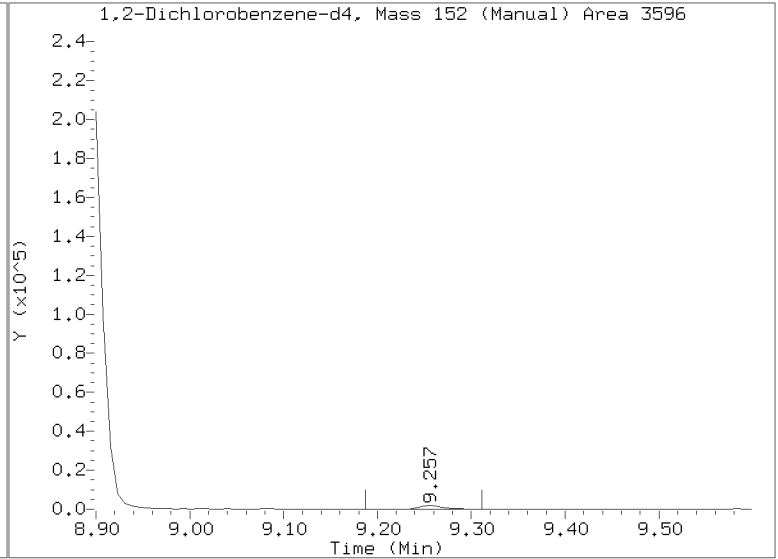
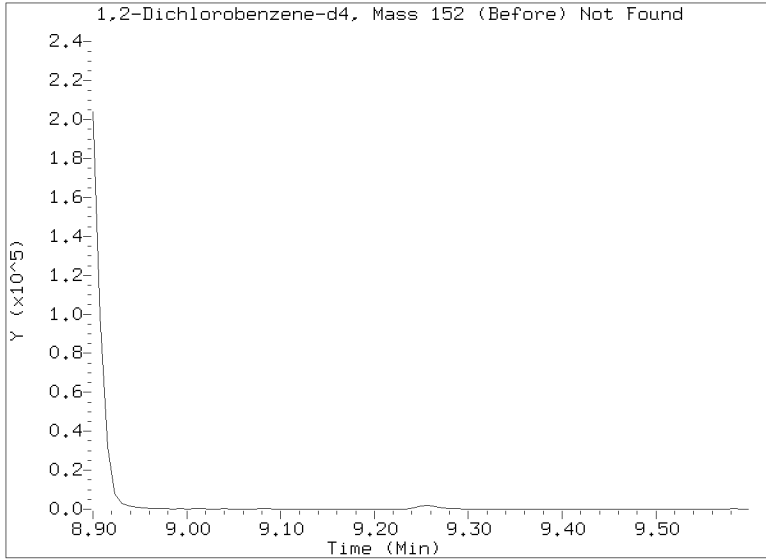
RRT check based on Ccal File: NT1022071608.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220716A.b/NT1022071611.D
Injection Date: 16-JUL-2022 17:04
Lab ID:22G0019-09RE2 Client ID:
Report Date: 07/19/2022 10:08





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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-10 A

SDG: 22G0019

Sampled: 06/29/22 11:40

Prepared: 07/07/22 10:01

File ID: NT1022071418.D

% Solids: 70.21

Preparation: EPA 3546 (Microwave)

Analyzed: 07/15/22 00:44

Batch: BKG0069

Sequence: SKG0139

Initial/Final: 14.28 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	1	250		4.2	19.9
91-57-6	2-Methylnaphthalene	1	320		4.5	19.9
83-32-9	Acenaphthene	1	57.2		5.2	19.9
87-86-5	Pentachlorophenol	1	31.2	U	31.2	99.7
85-01-8	Phenanthrene	1	118		8.7	19.9
206-44-0	Fluoranthene	1	75.3	Q	6.1	19.9
56-55-3	Benzo(a)anthracene	1	21.1		5.9	19.9
218-01-9	Chrysene	1	34.4		6.0	19.9
205-99-2	Benzo(b)fluoranthene	1	16.6	J	7.0	19.9
207-08-9	Benzo(k)fluoranthene	1	20.3		5.0	19.9
50-32-8	Benzo(a)pyrene	1	30.3		4.2	19.9
193-39-5	Indeno(1,2,3-cd)pyrene	1	17.1	J	14.6	19.9
53-70-3	Dibenzo(a,h)anthracene	1	17.2	U	17.2	19.9
90-12-0	1-Methylnaphthalene	1	387		5.2	19.9

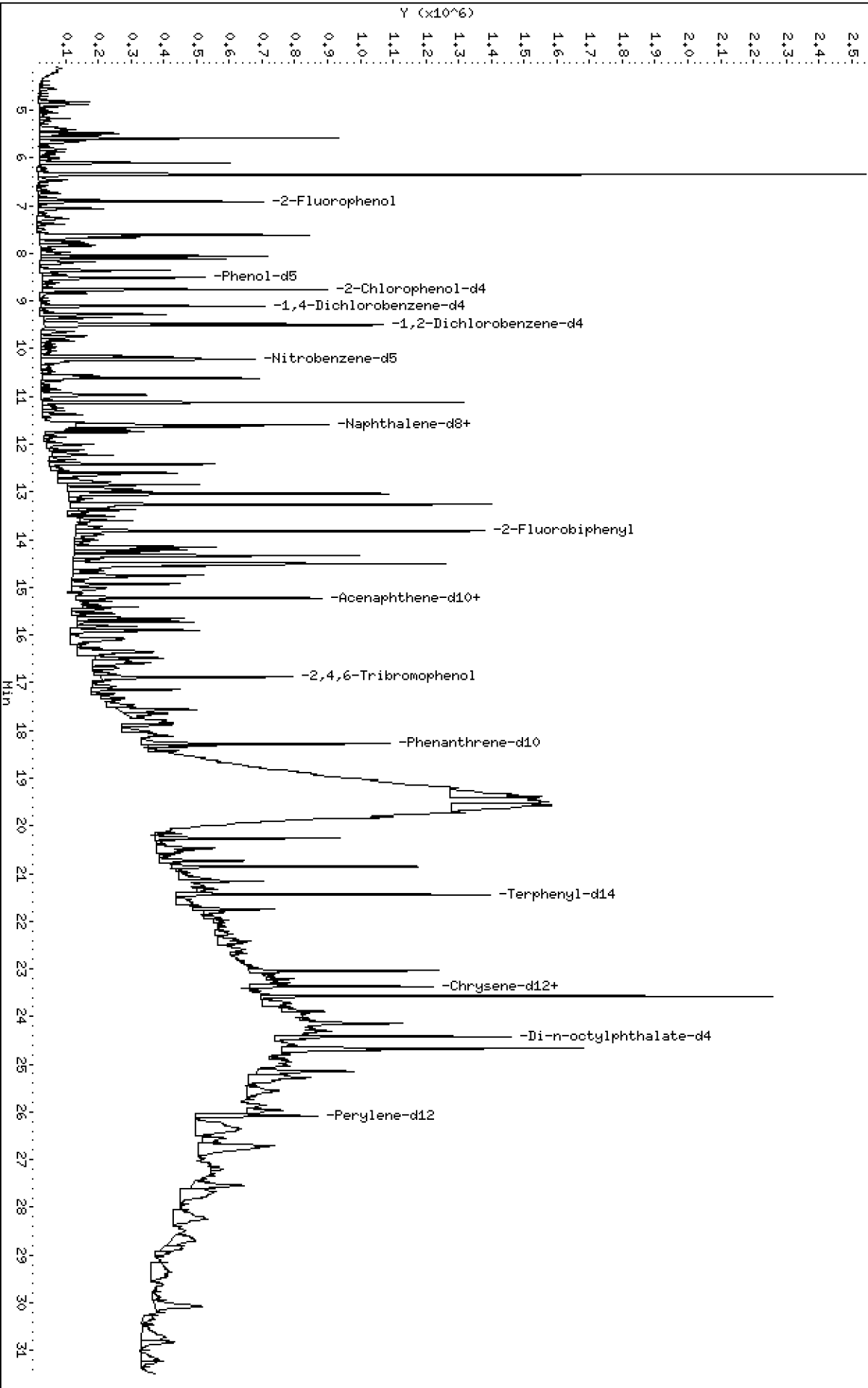
SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.06	504	67.4	27 - 120	
Phenol-d5	748.06	407	54.5	29 - 120	
2-Chlorophenol-d4	748.06	705	94.3	31 - 120	
1,2-Dichlorobenzene-d4	498.70	482	96.6	32 - 120	
Nitrobenzene-d5	498.70	380	76.1	30 - 120	
2-Fluorobiphenyl	498.70	508	102	35 - 120	
2,4,6-Tribromophenol	748.06	918	123	24 - 134	
p-Terphenyl-d14	498.70	469	94.0	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220714.6\NT1022071418.D
Date: 15-JUL-2022 00:44
Client ID:
Sample Info: 22C0019-10

Column phase: ZB-5msi

Instrument: nt10.1
Operator: VTS
Column diameter: 0.25

\\target\share\chem3\nt10.1\20220714.6\NT1022071418.D



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

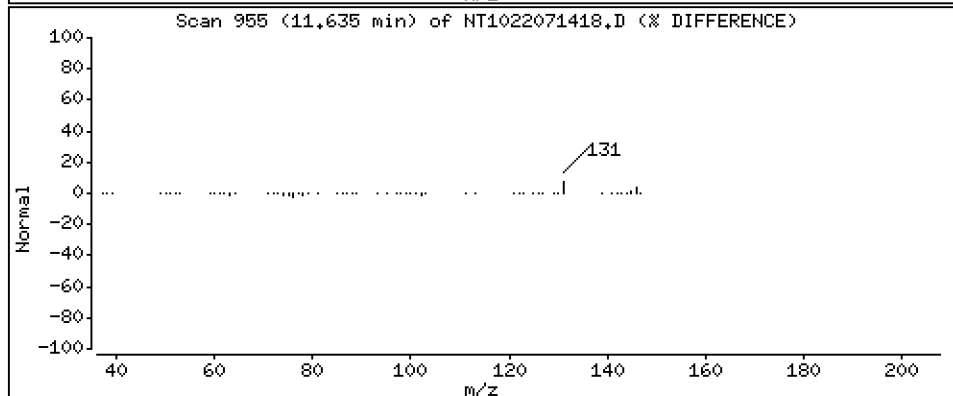
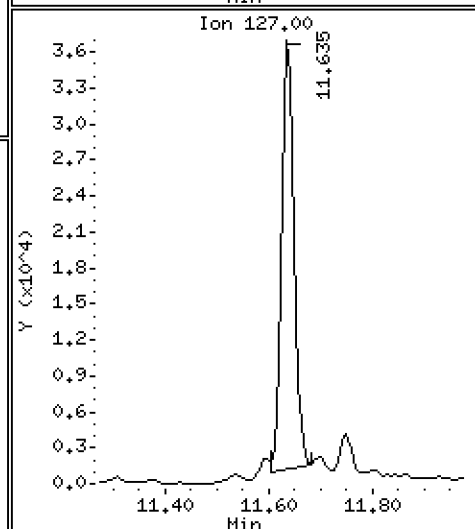
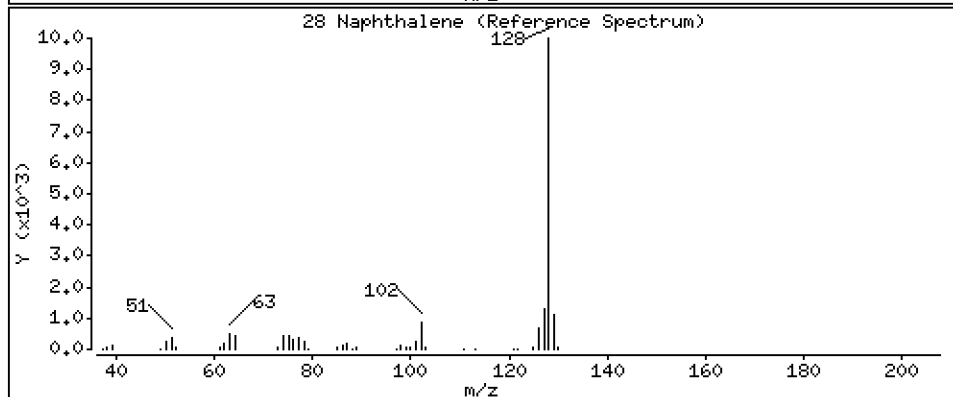
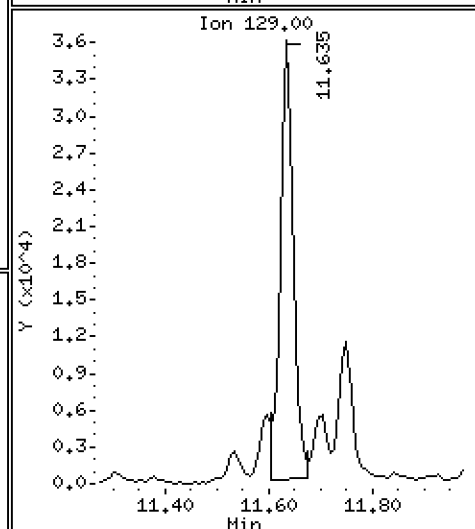
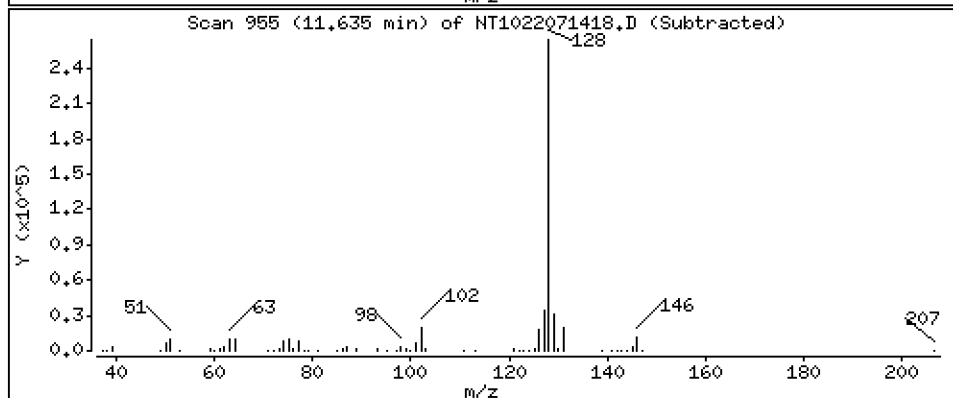
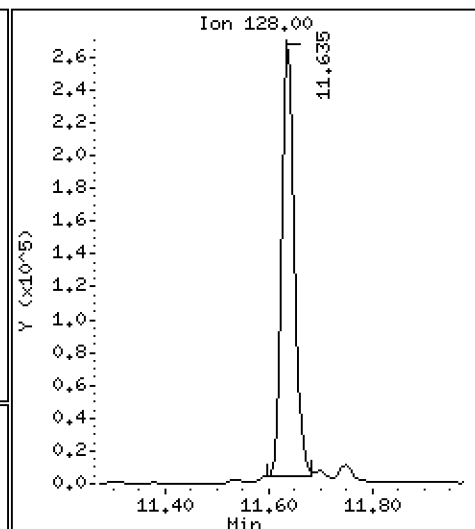
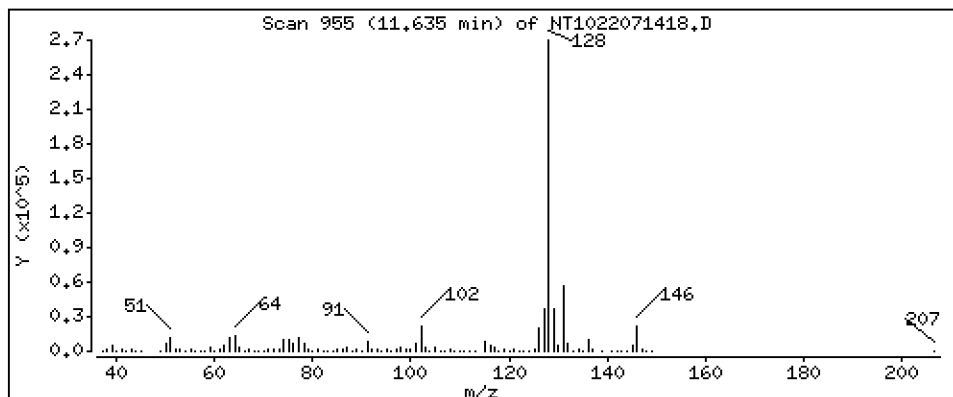
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 2,508 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

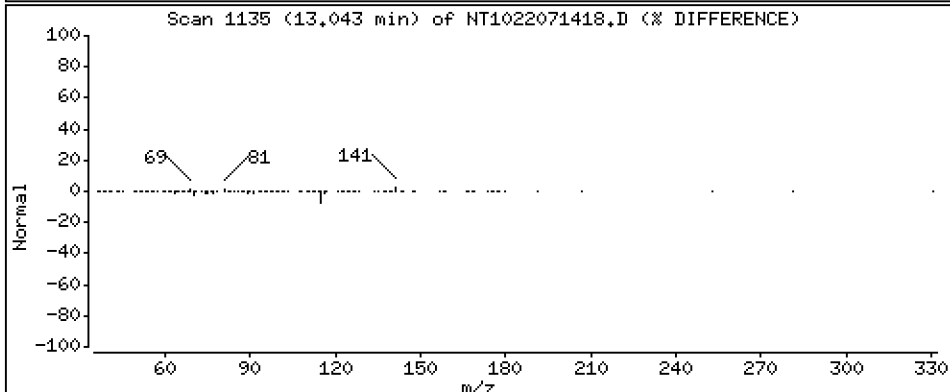
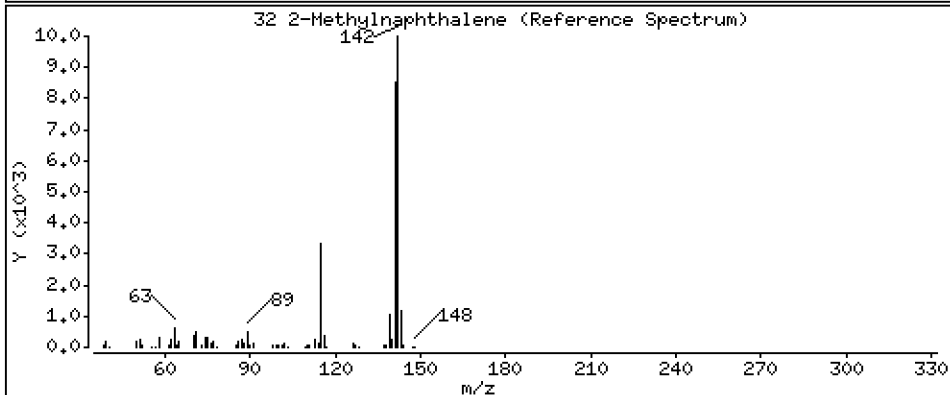
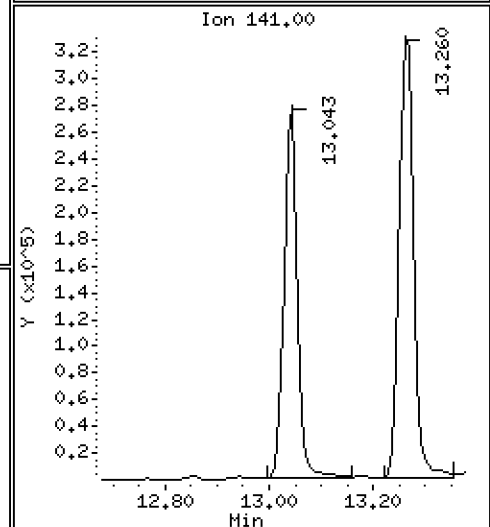
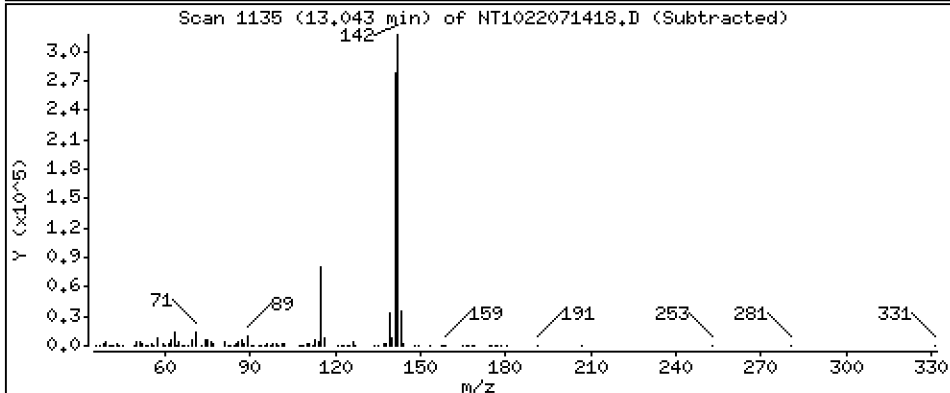
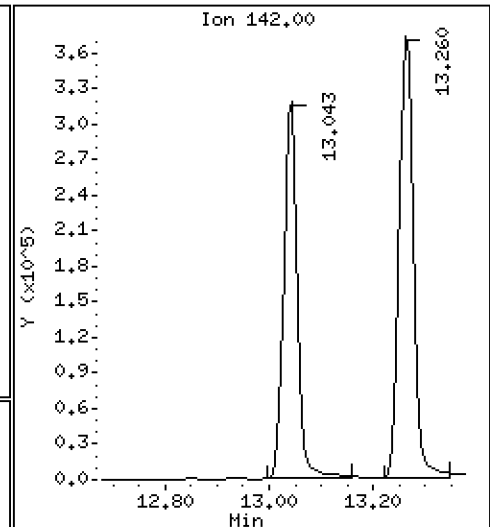
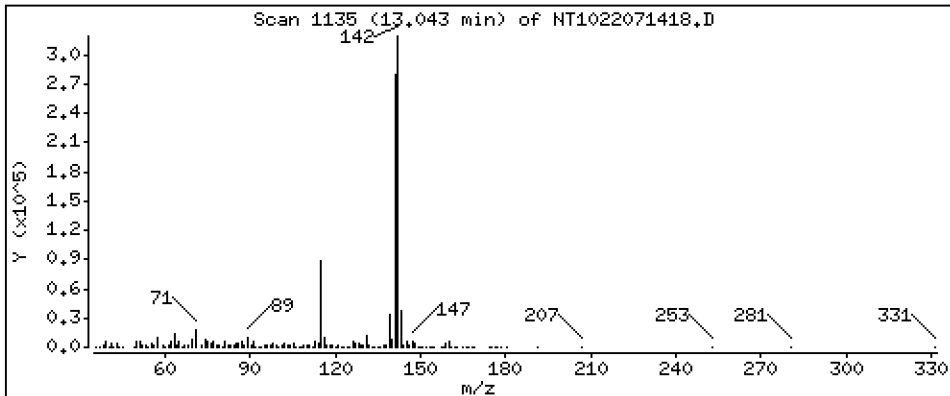
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 3,210 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

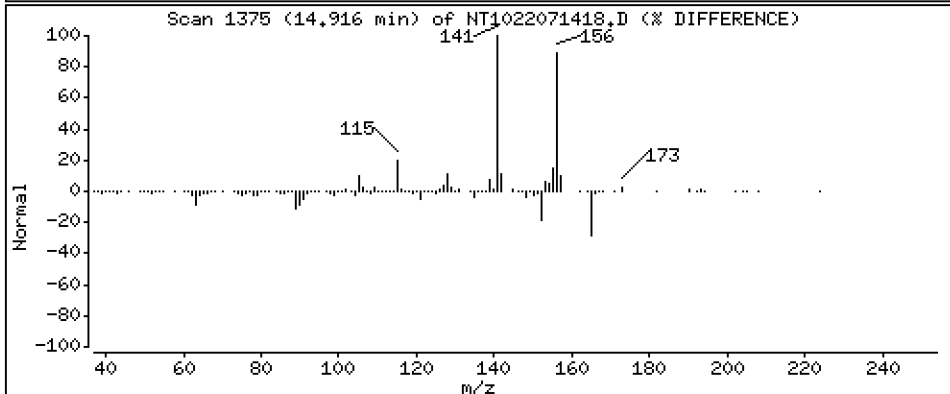
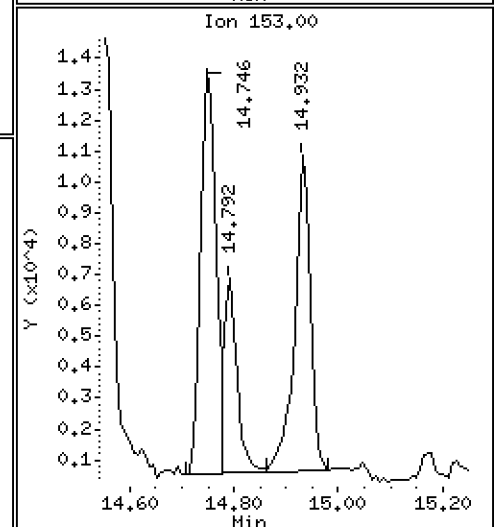
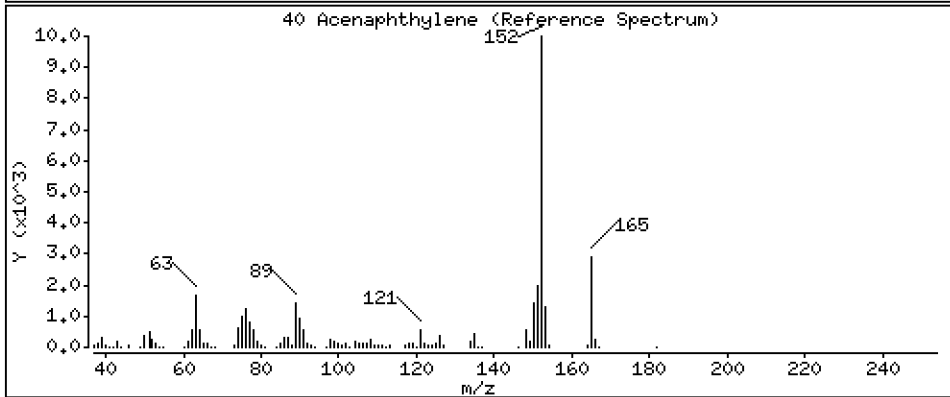
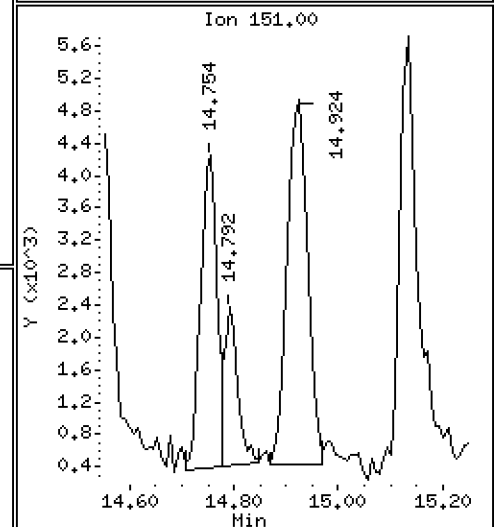
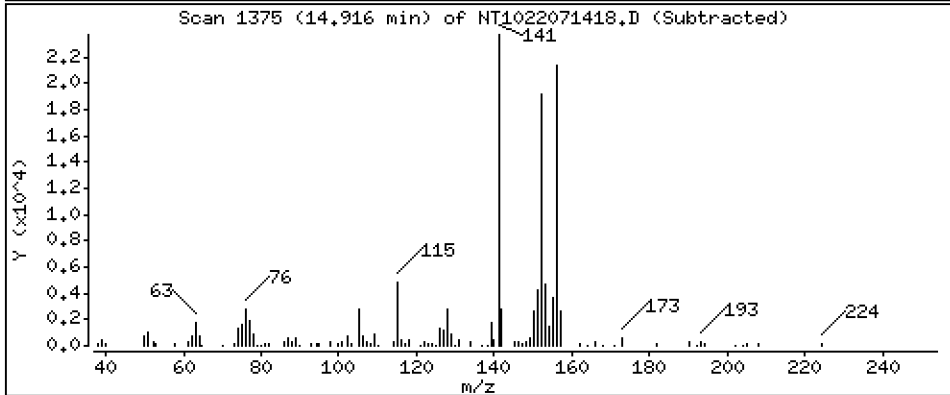
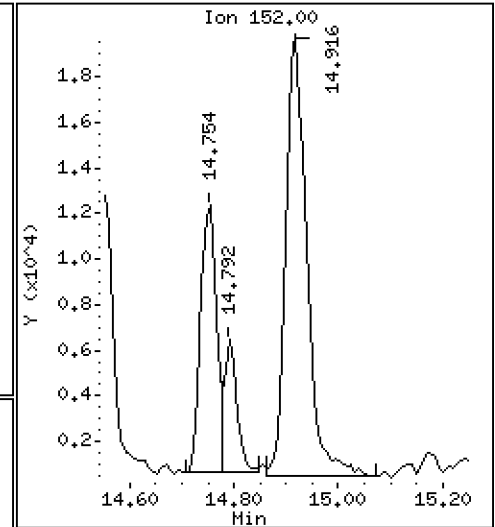
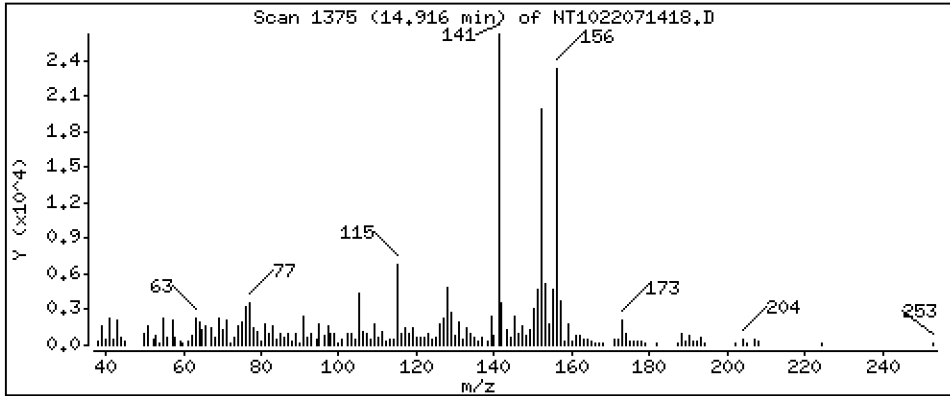
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2697 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

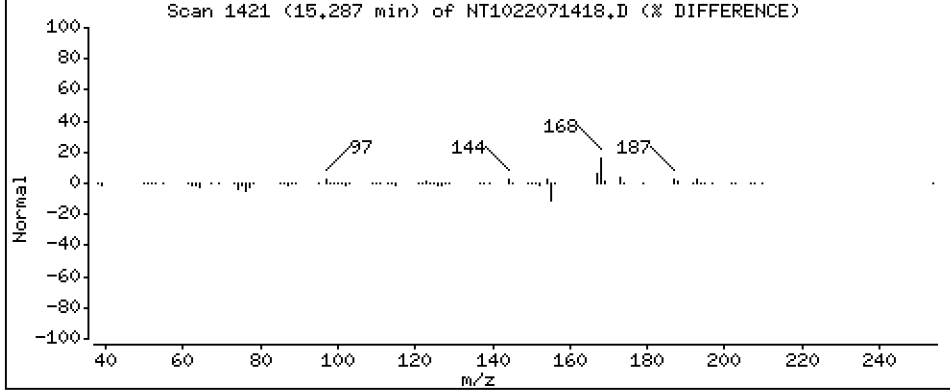
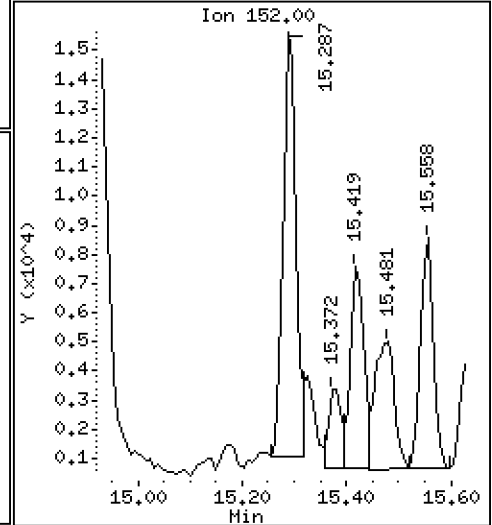
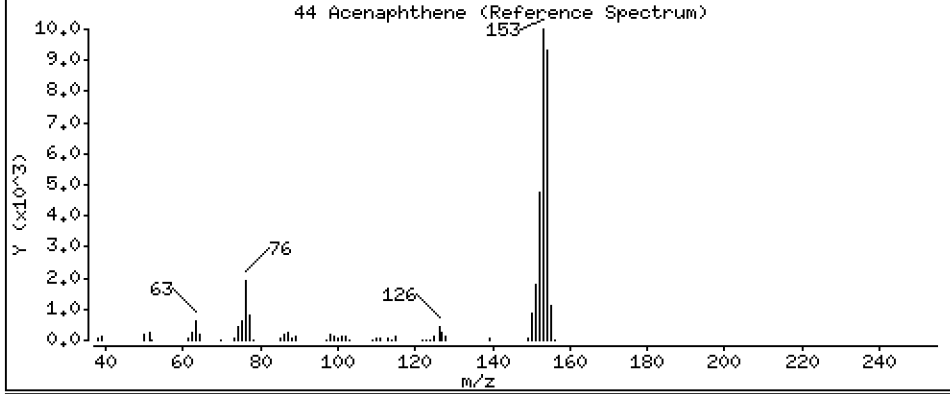
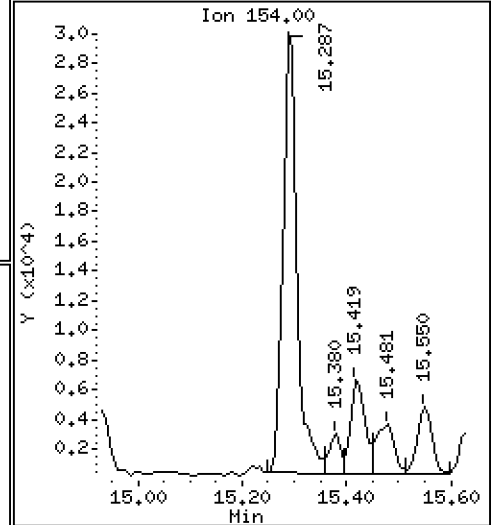
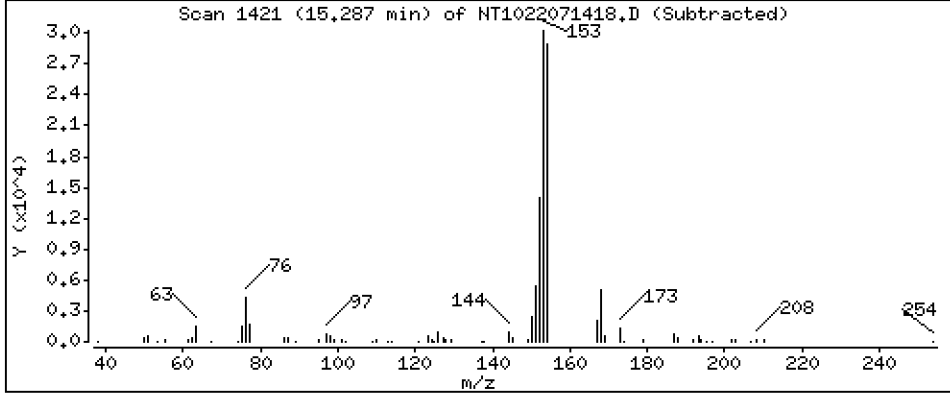
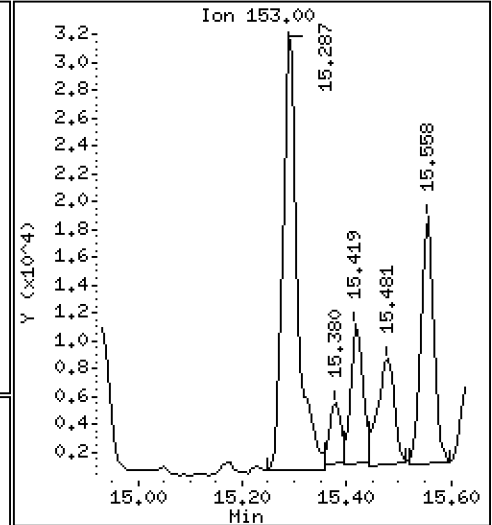
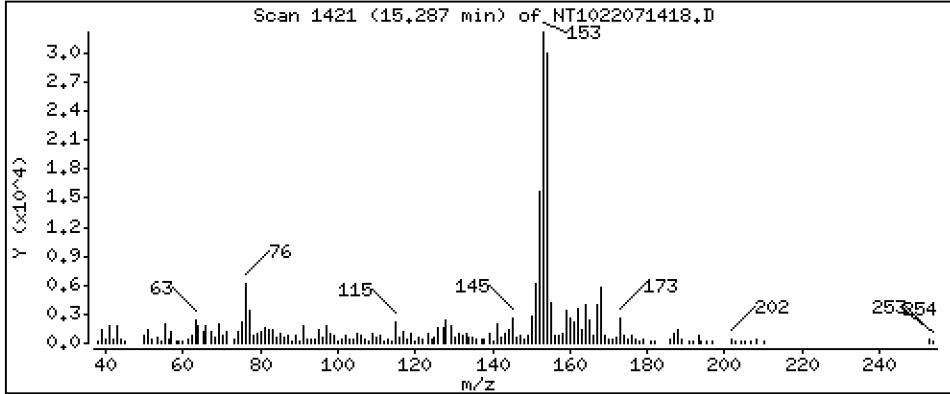
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.5735 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

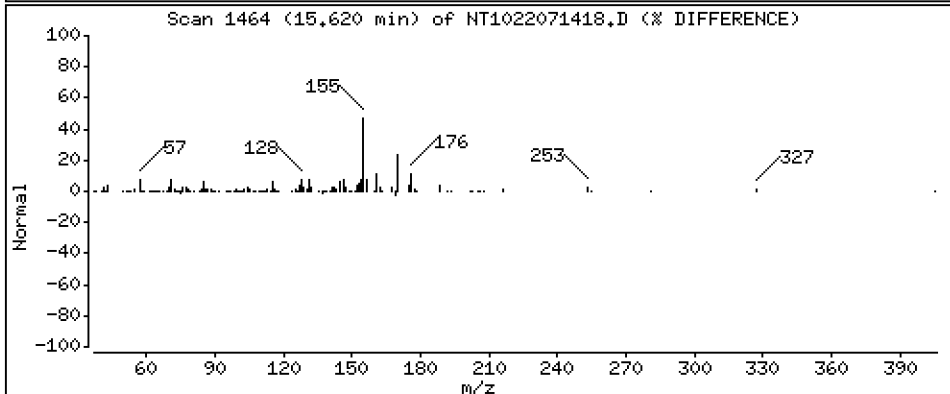
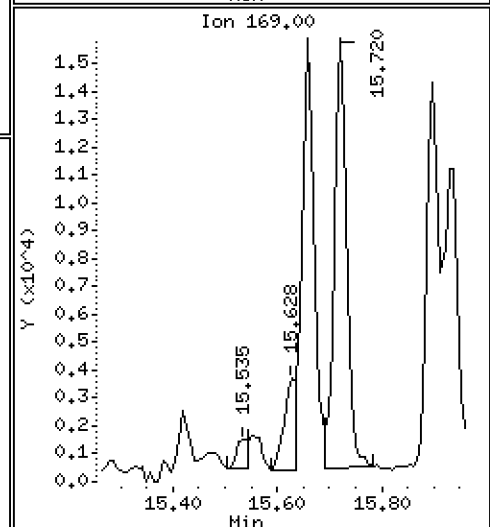
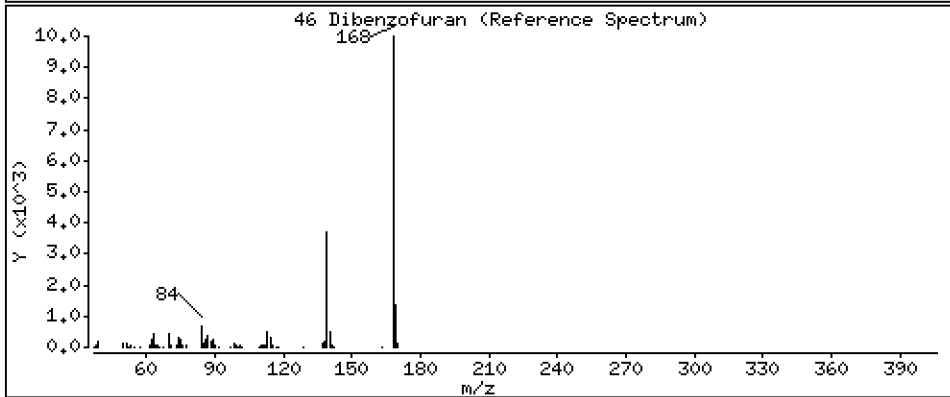
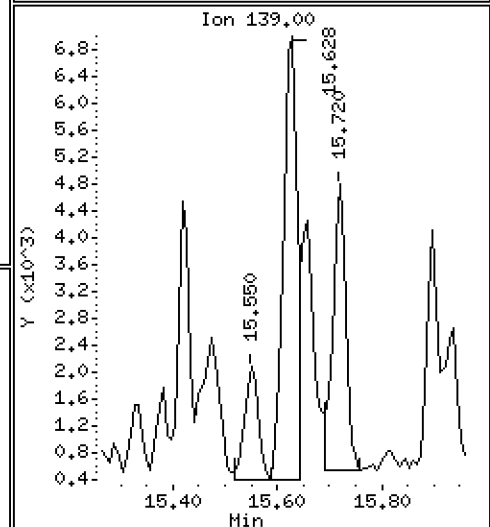
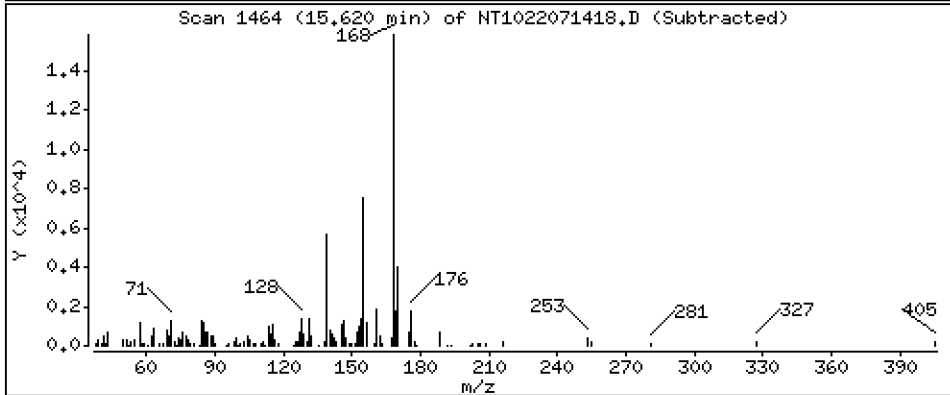
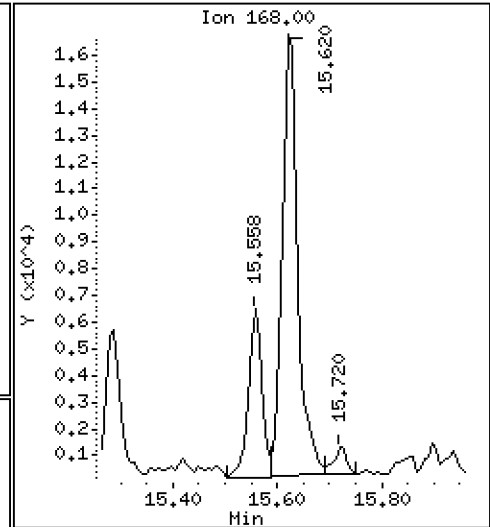
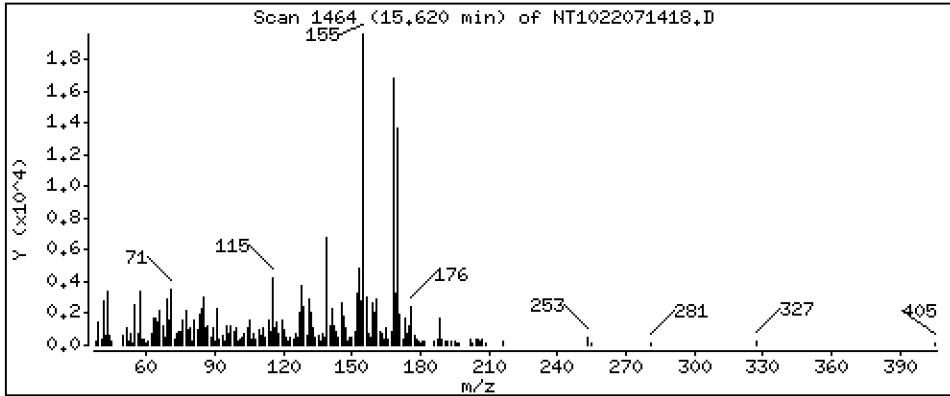
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 0.1985 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

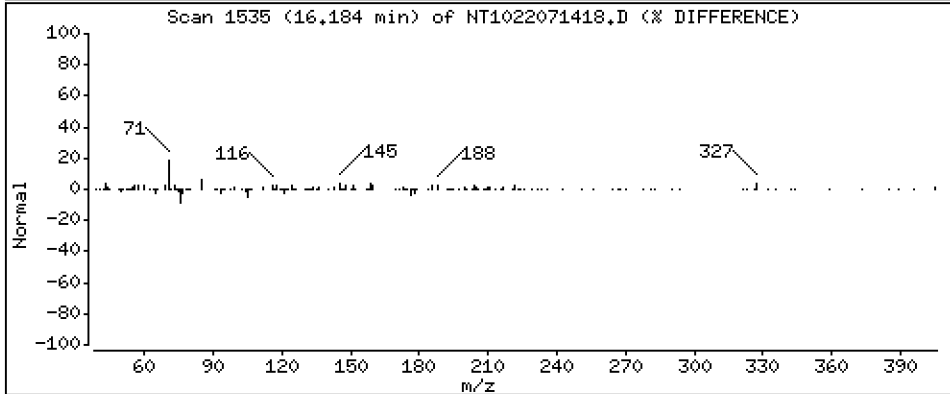
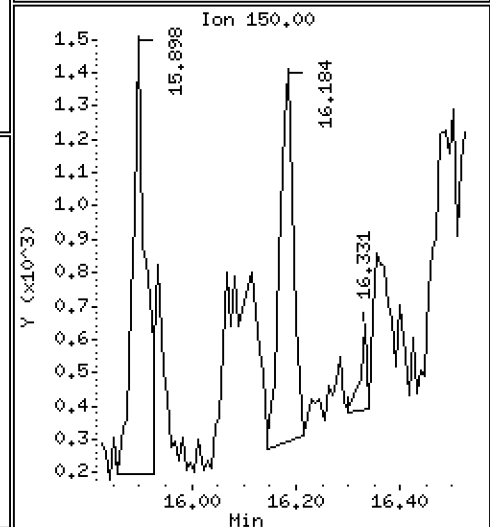
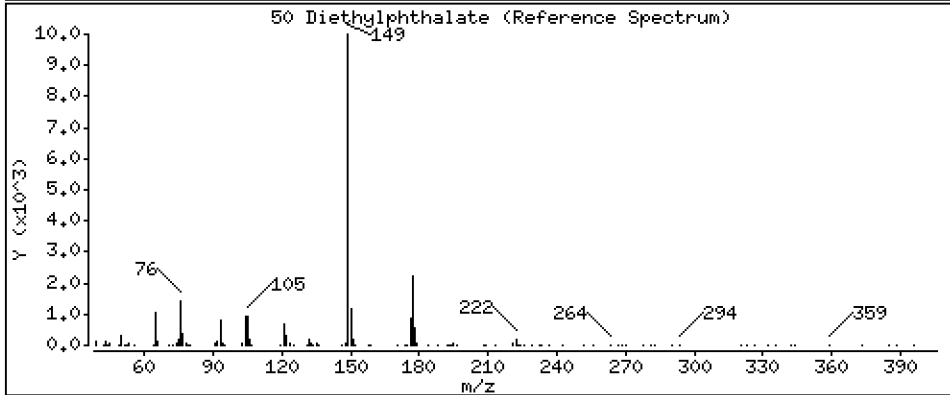
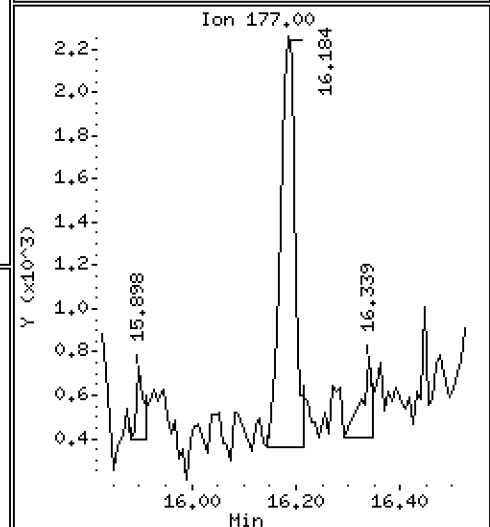
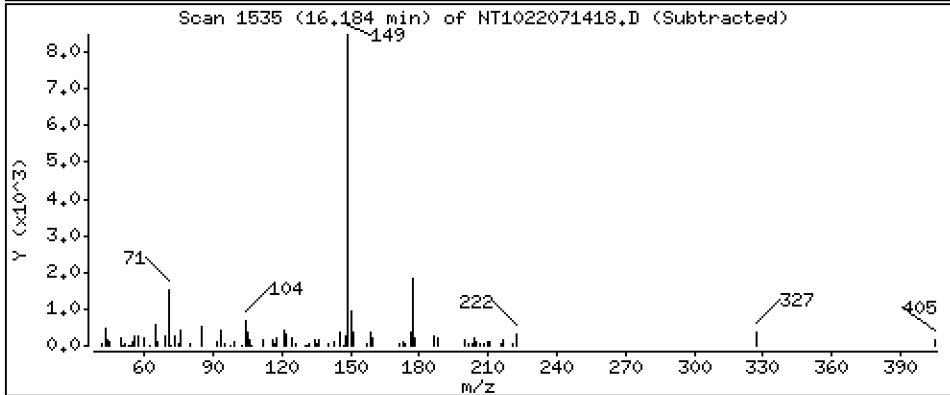
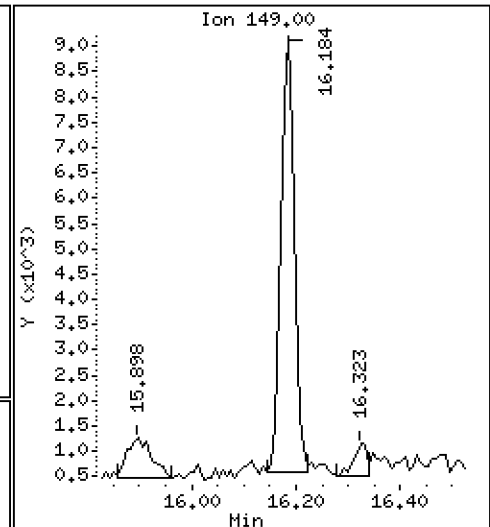
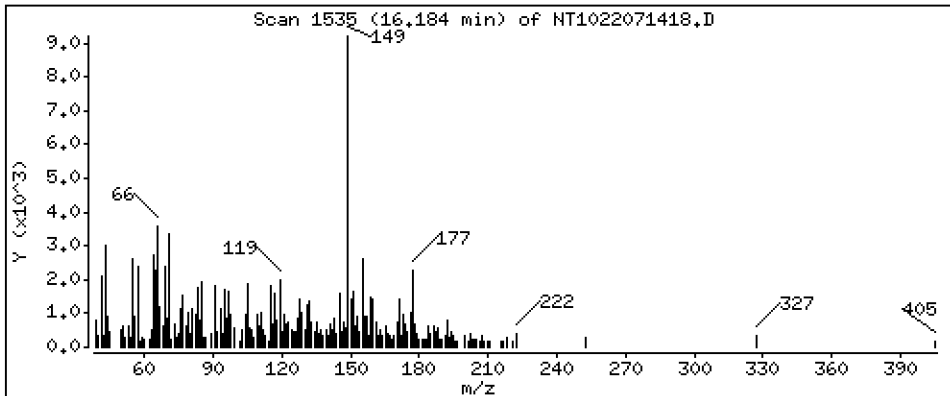
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.1349 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

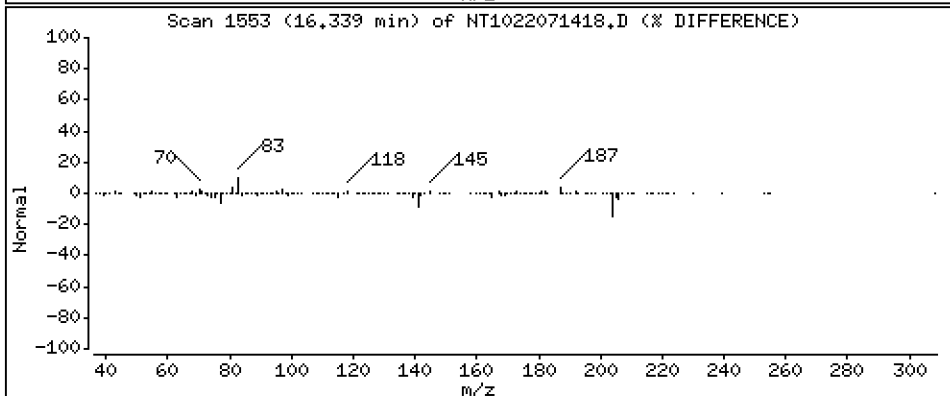
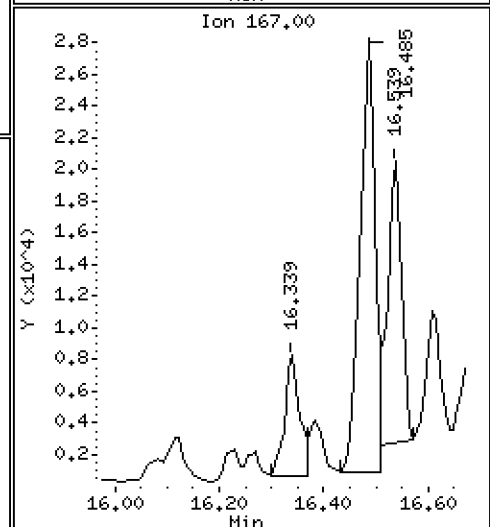
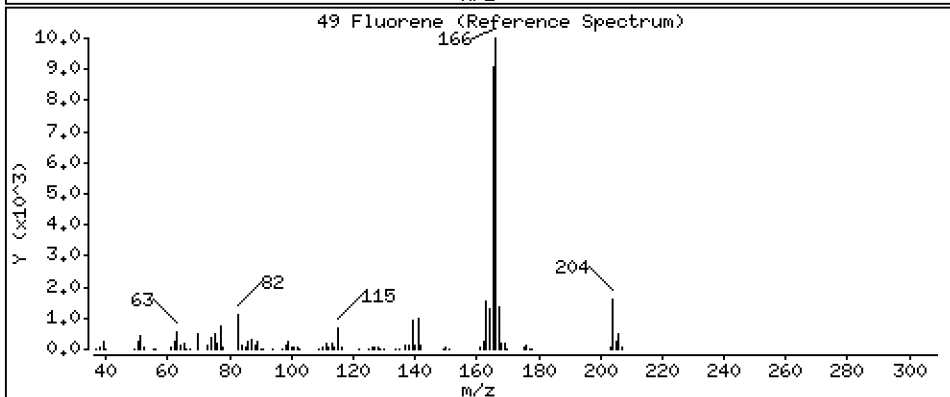
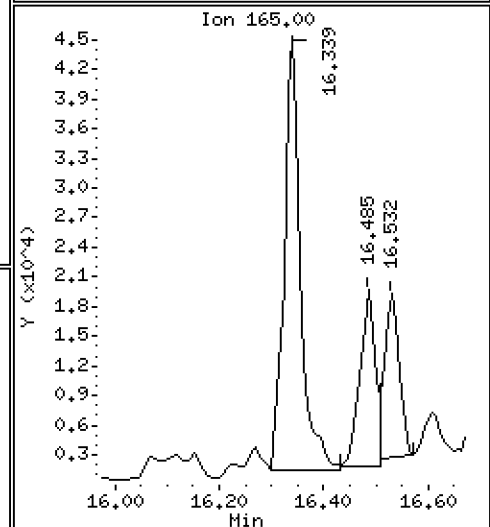
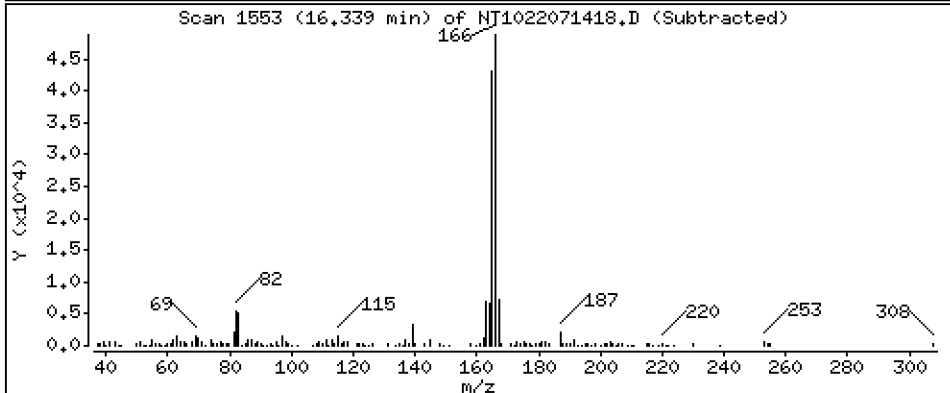
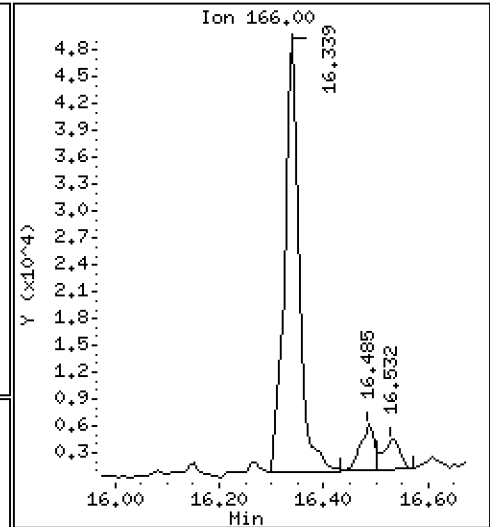
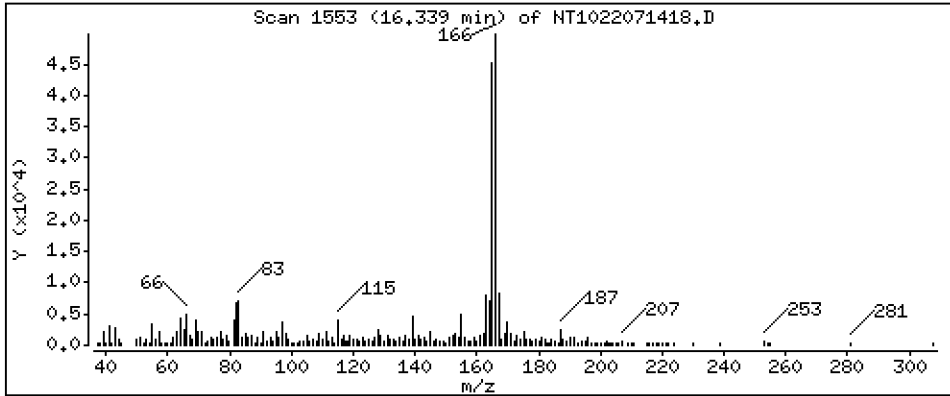
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,4832 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

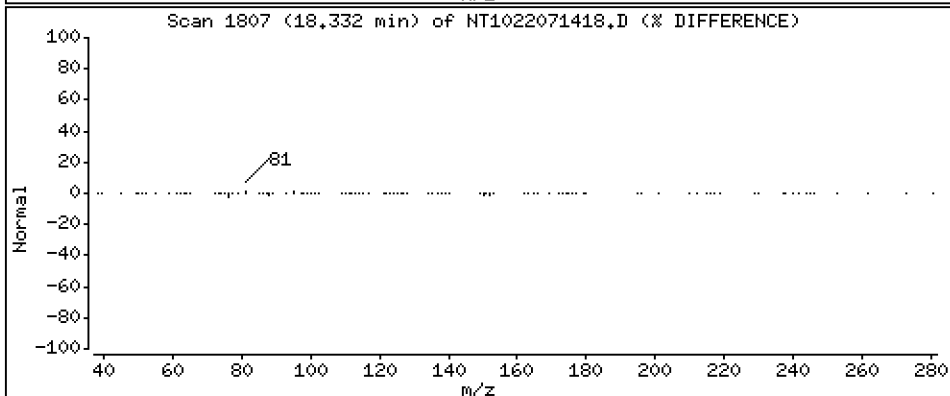
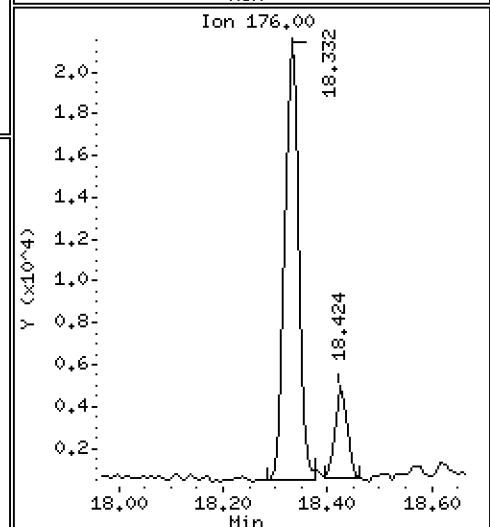
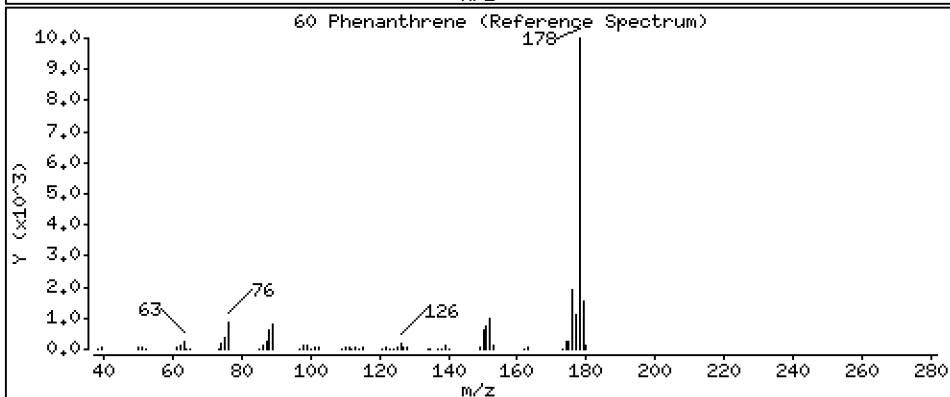
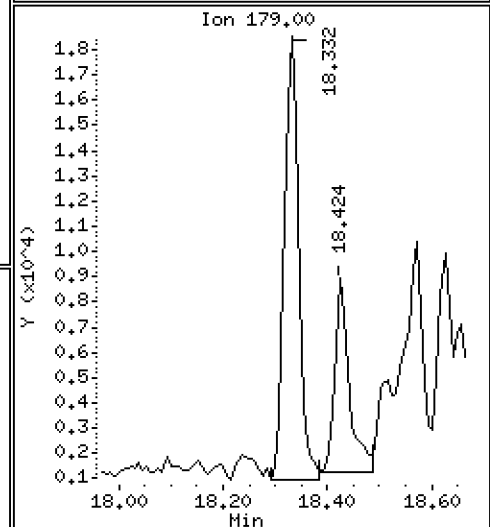
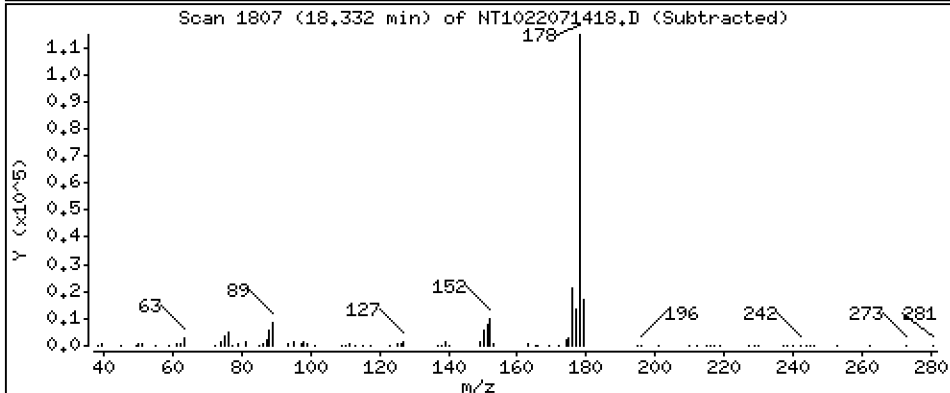
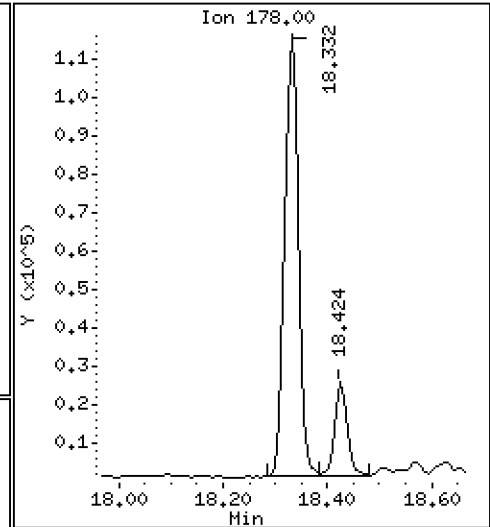
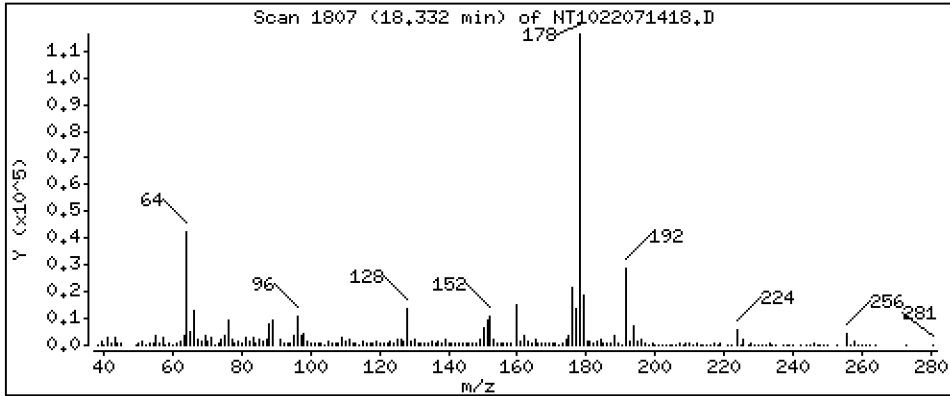
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 1,183 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

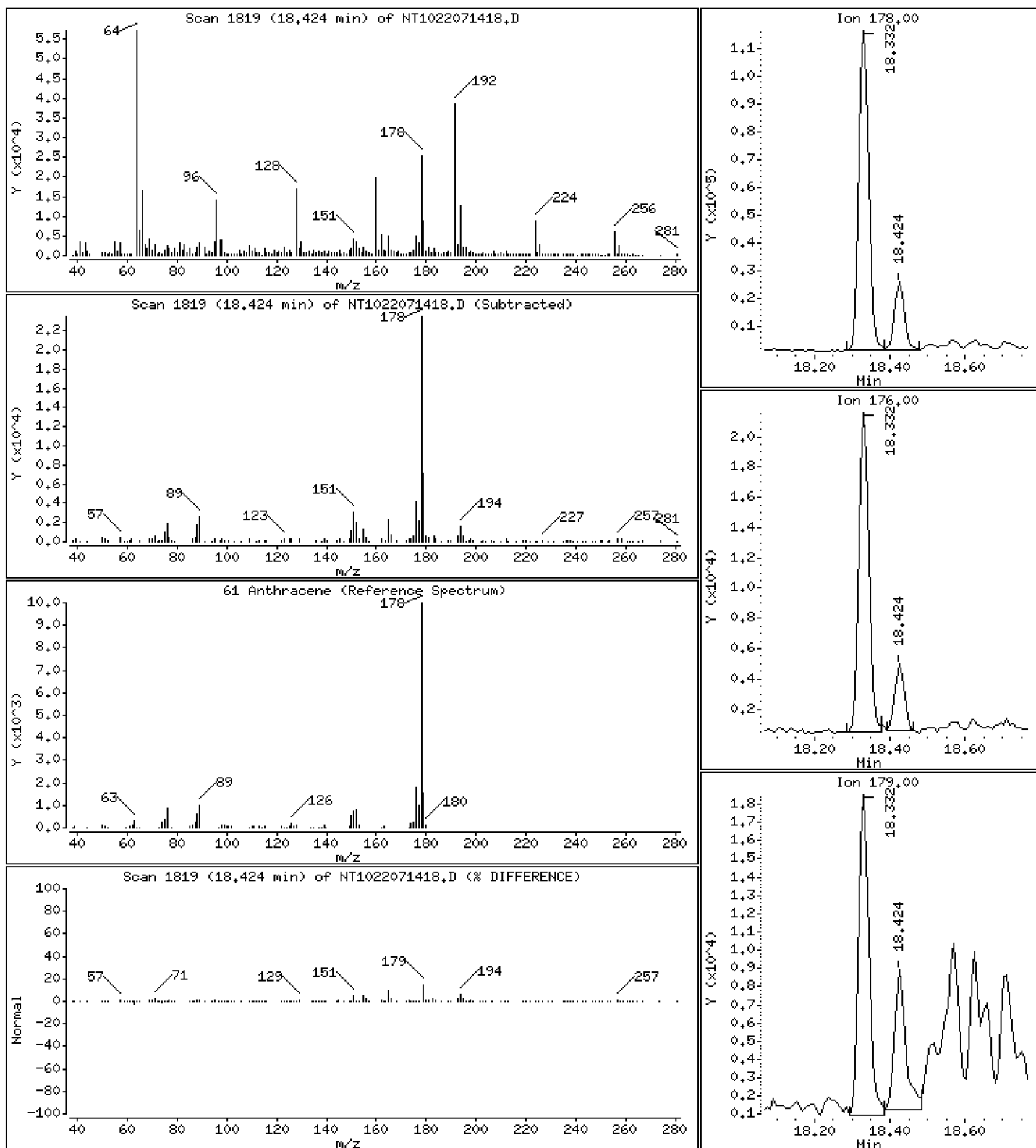
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2241 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

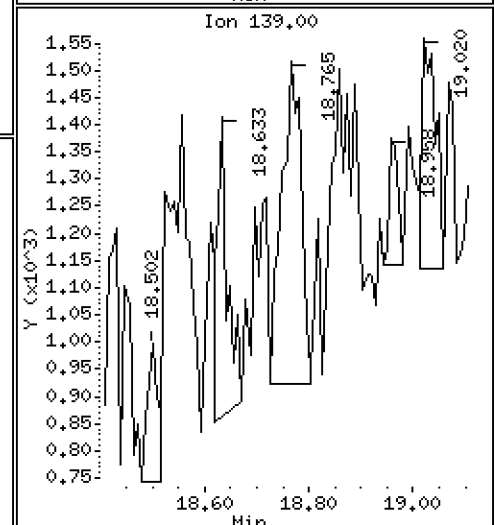
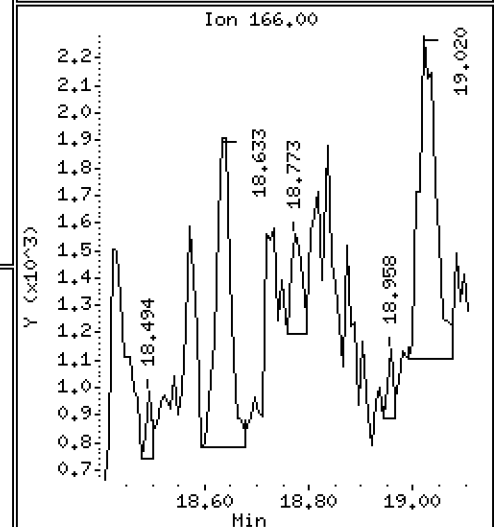
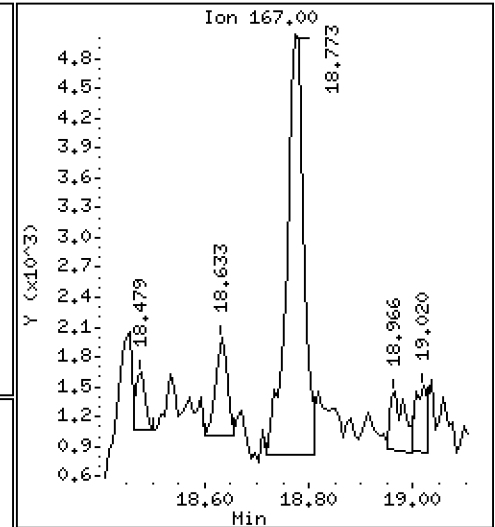
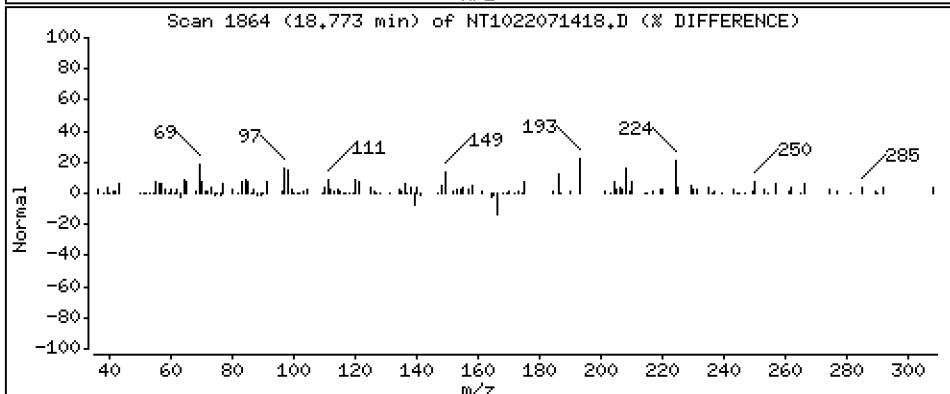
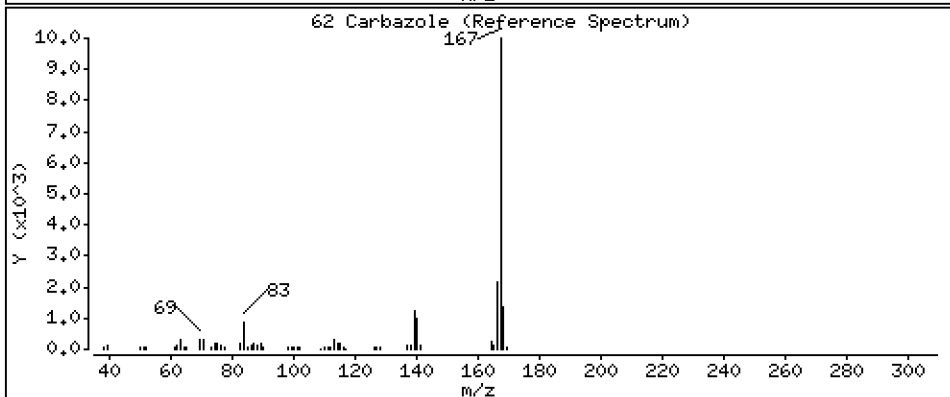
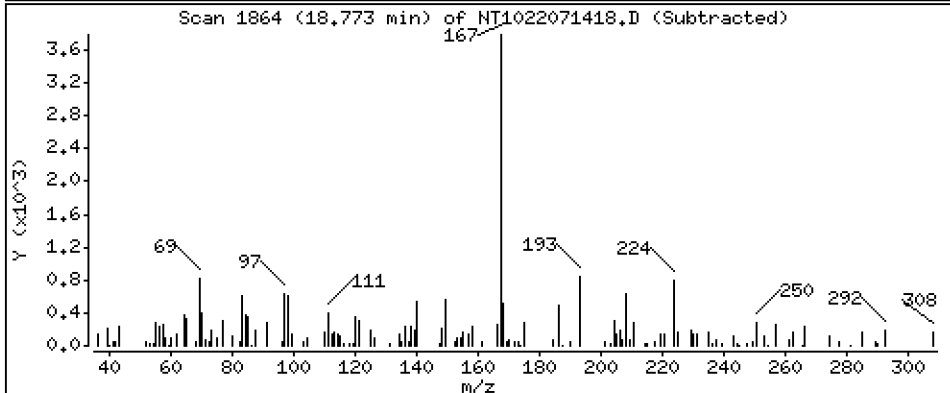
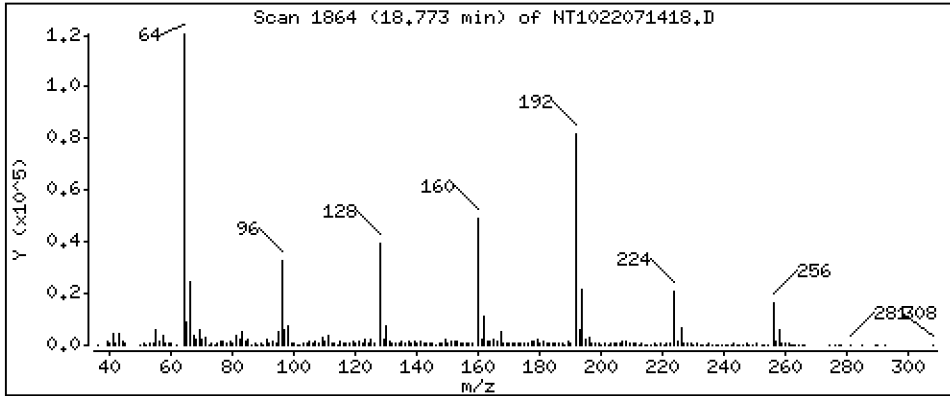
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 0.05691 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

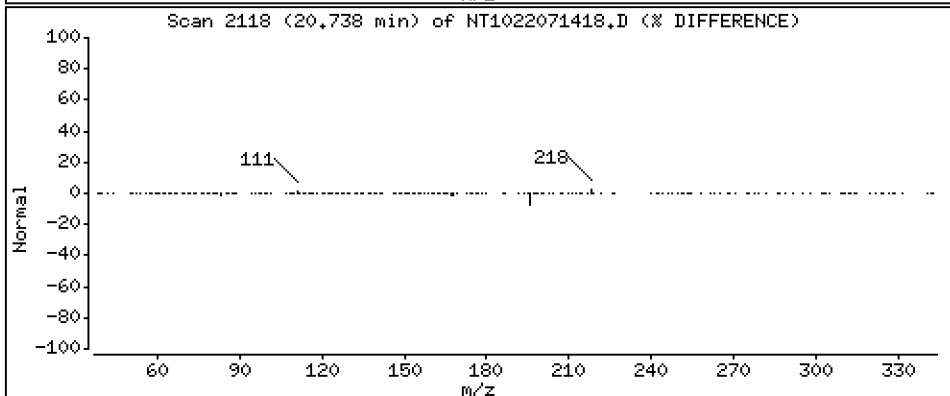
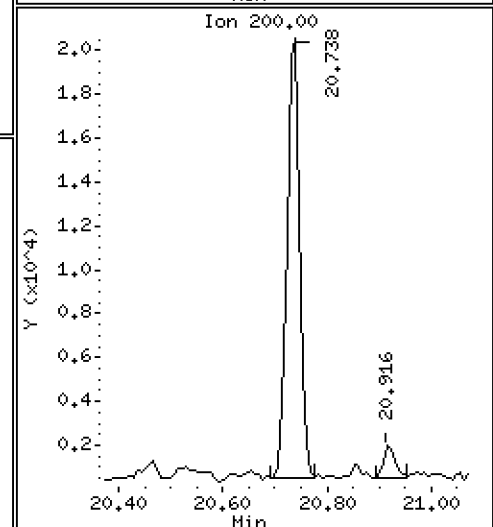
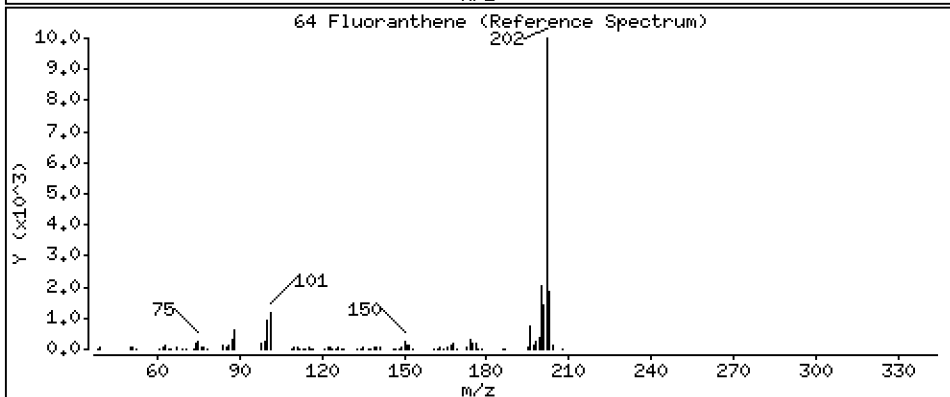
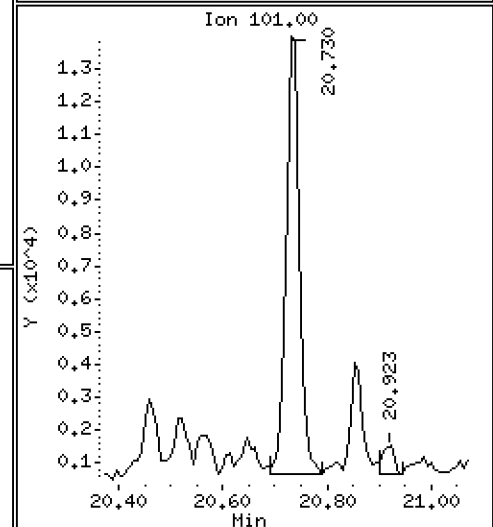
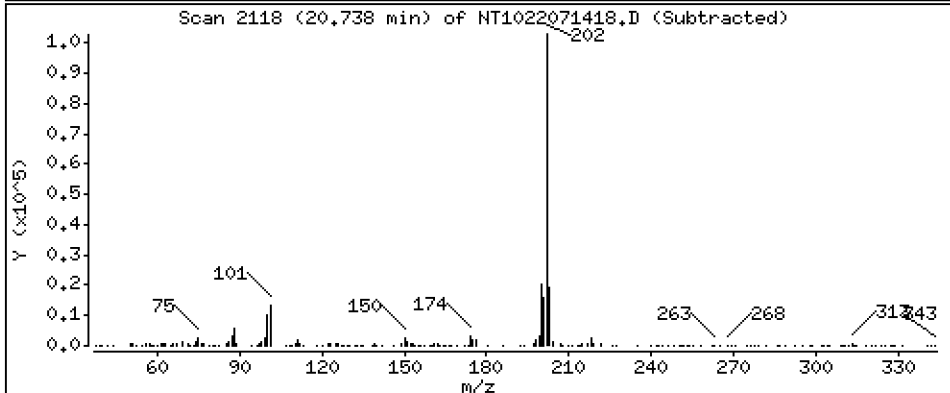
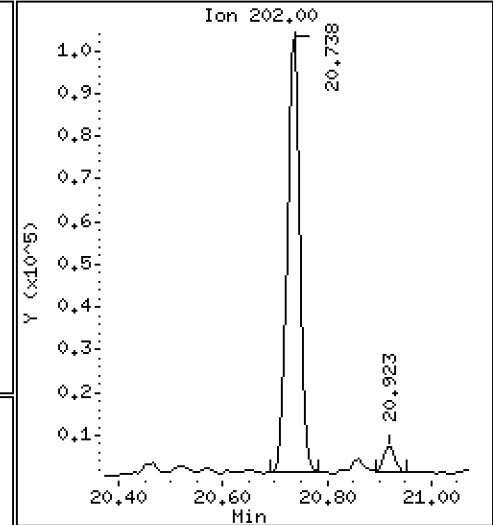
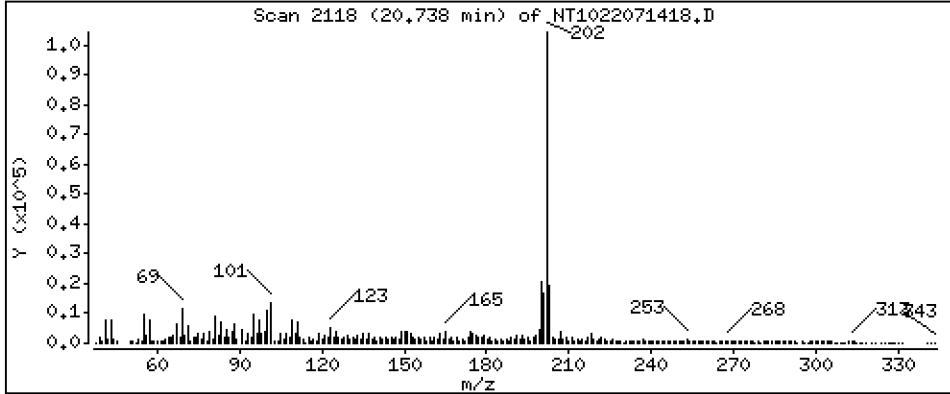
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,7548 ug/mL

64 Fluoranthene



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

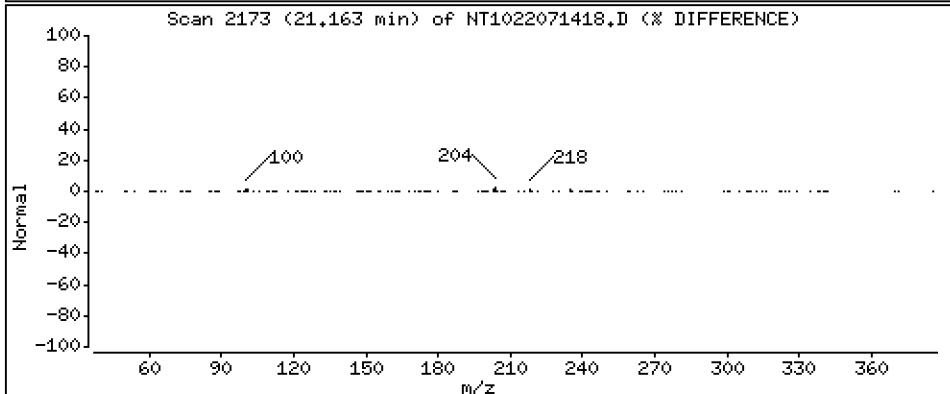
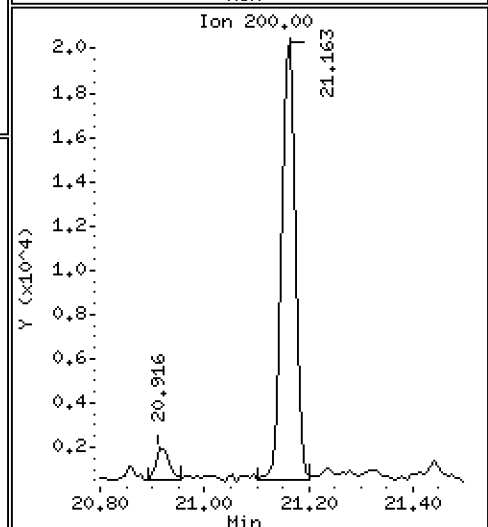
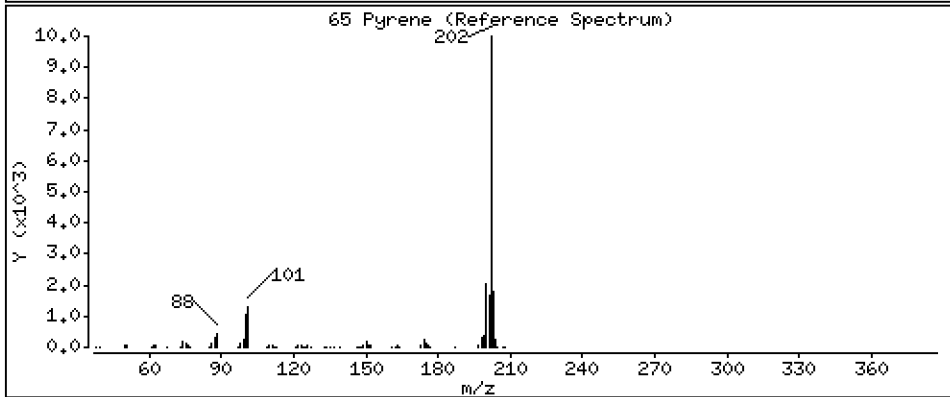
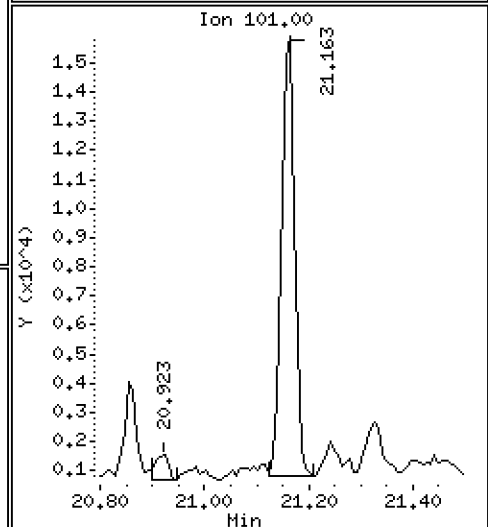
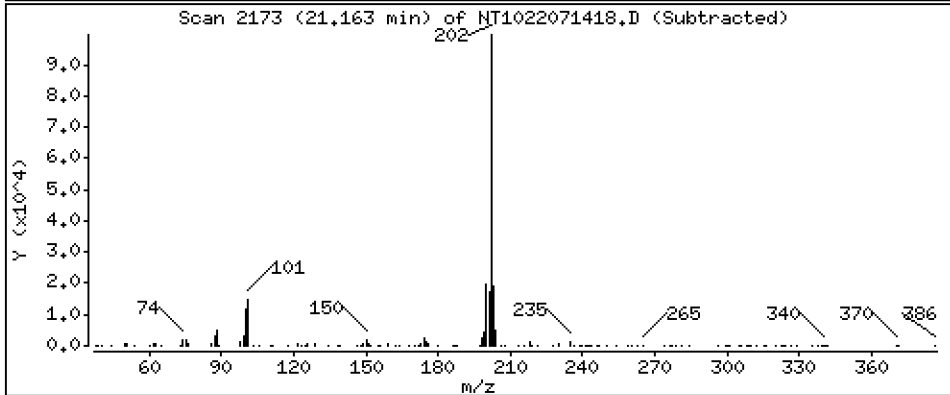
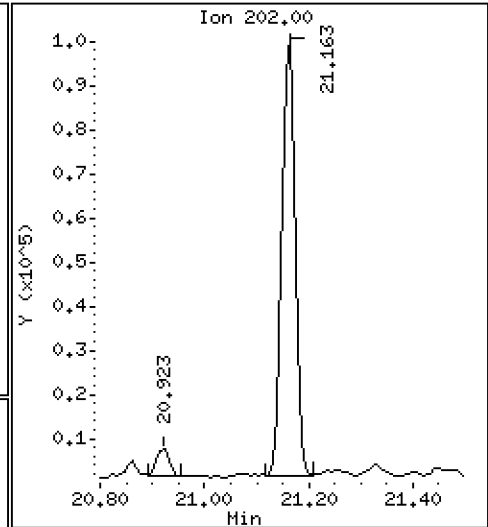
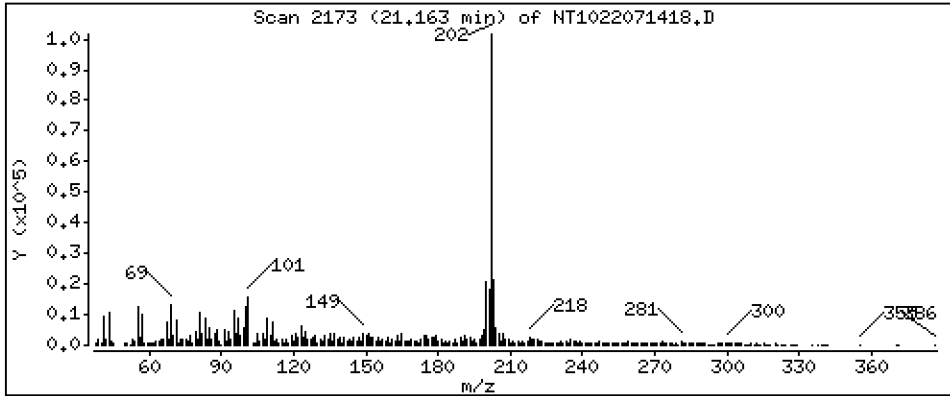
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,8494 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

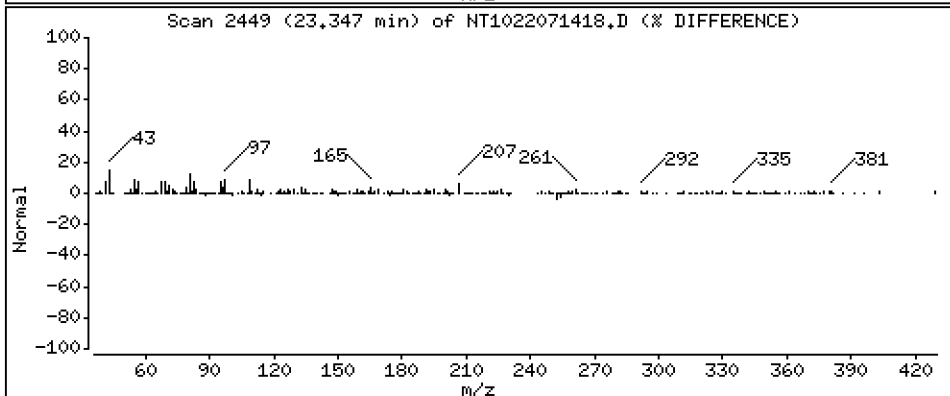
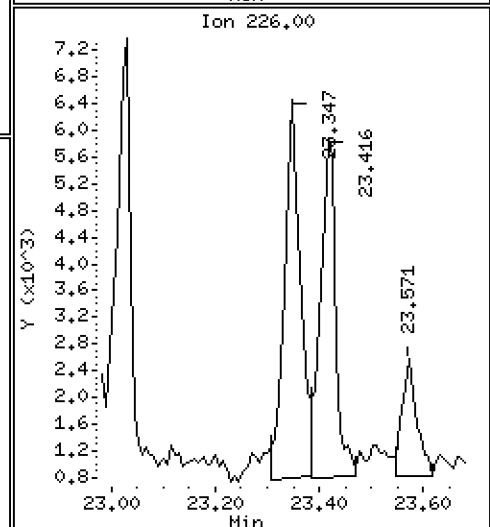
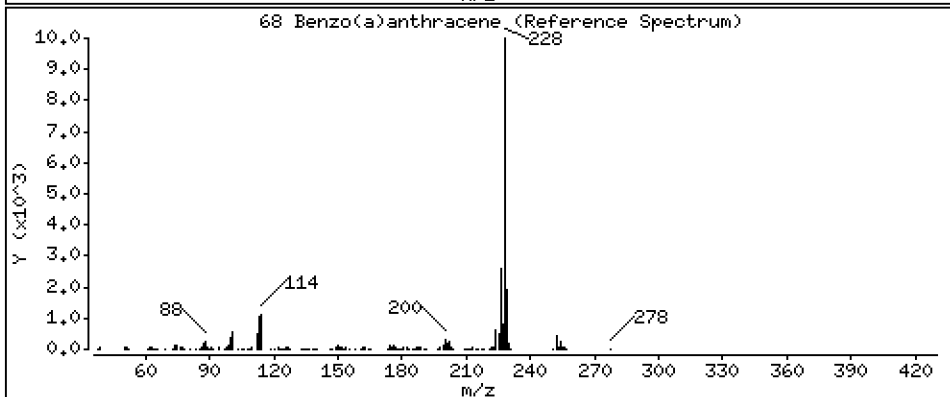
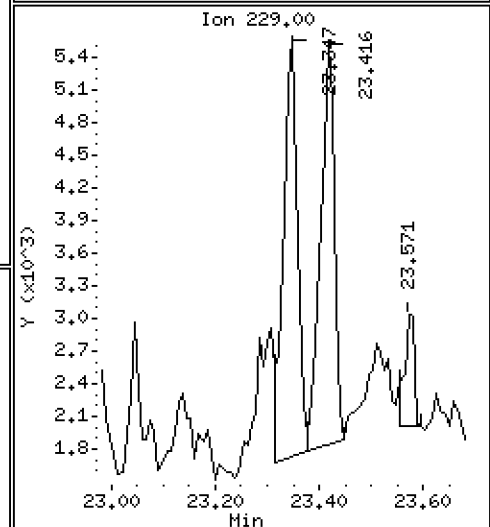
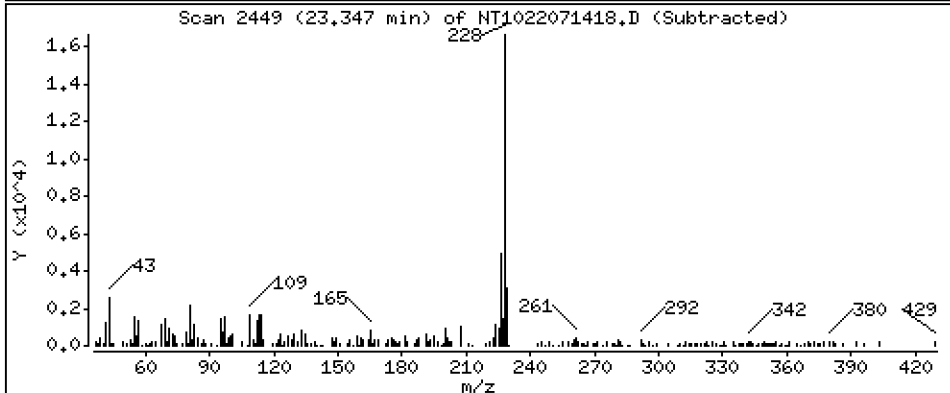
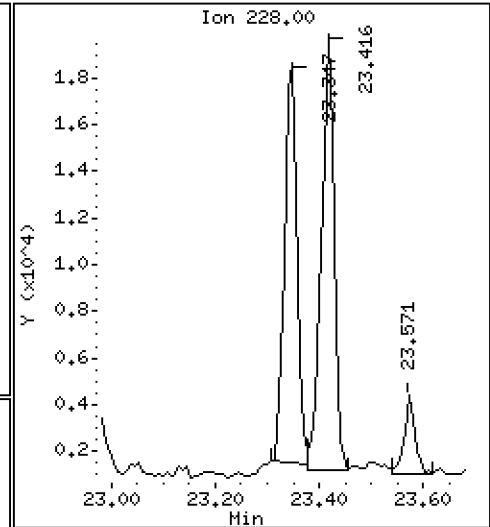
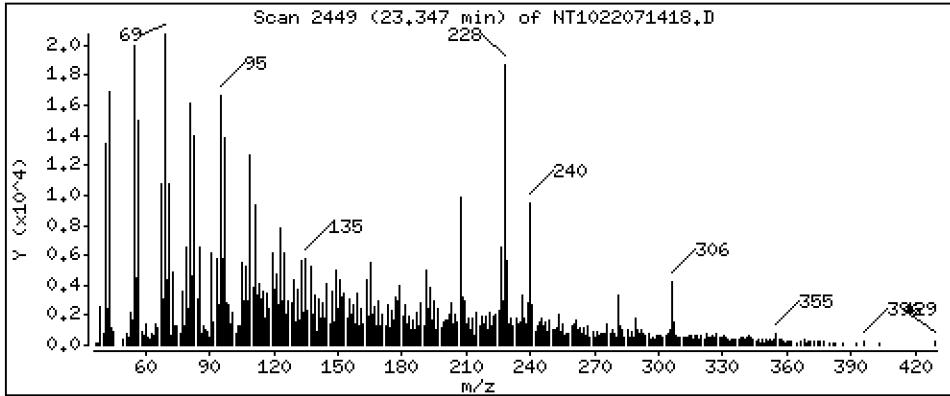
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2119 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 2200019-10

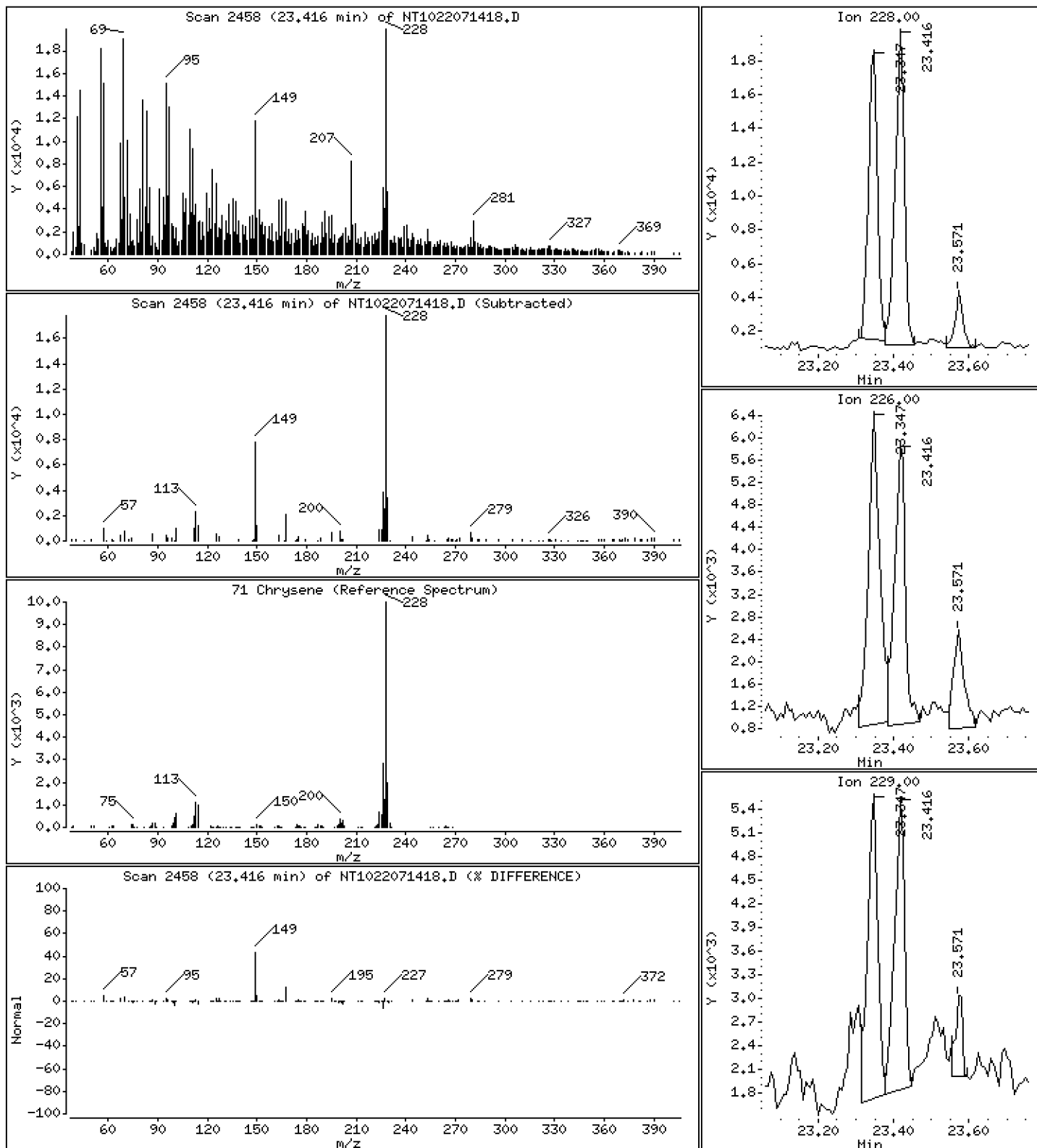
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,3446 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

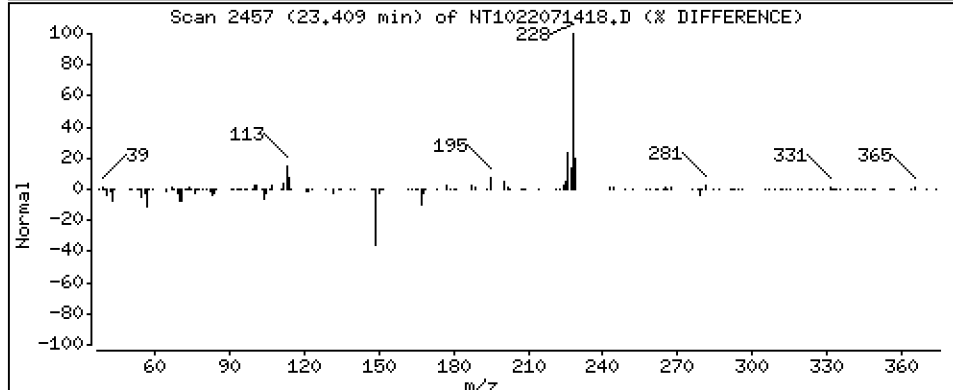
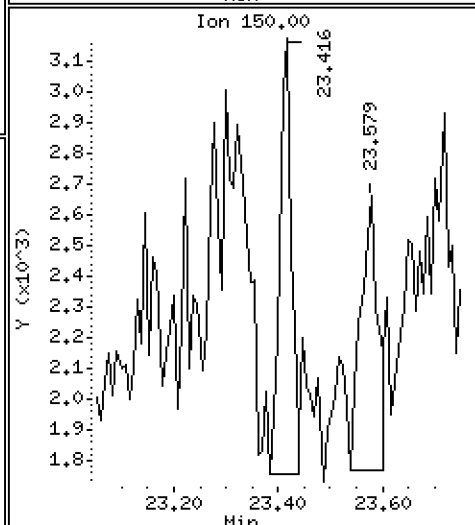
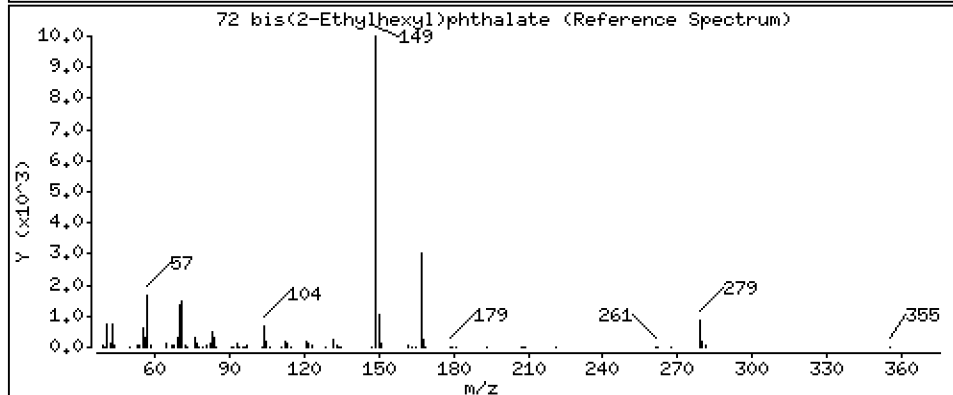
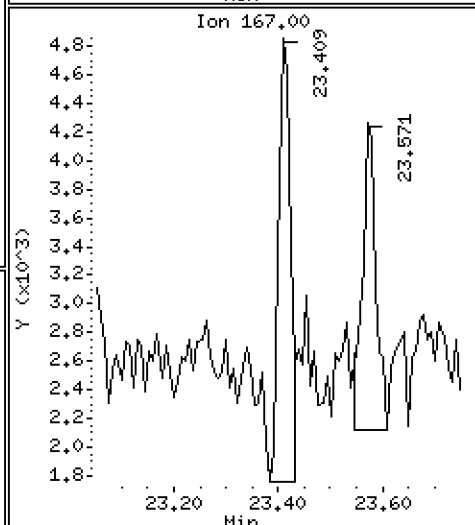
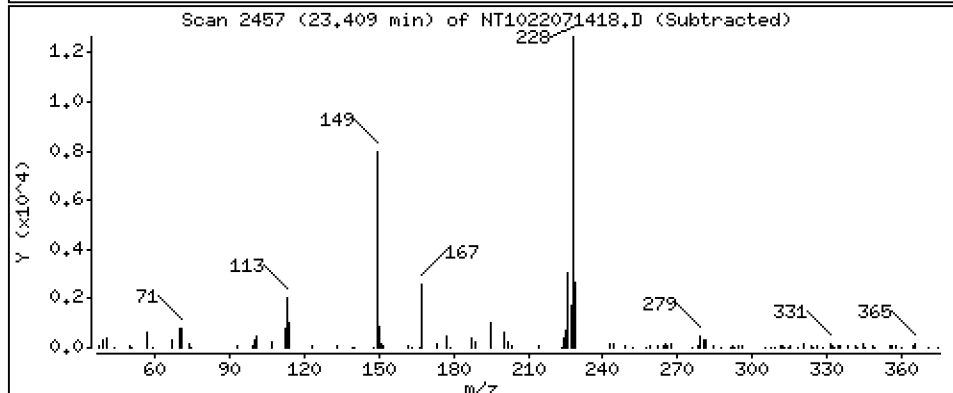
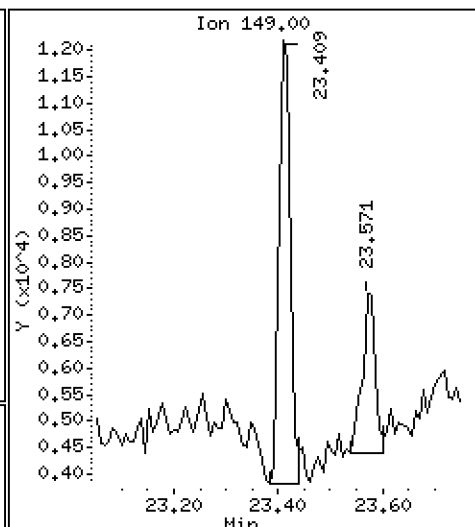
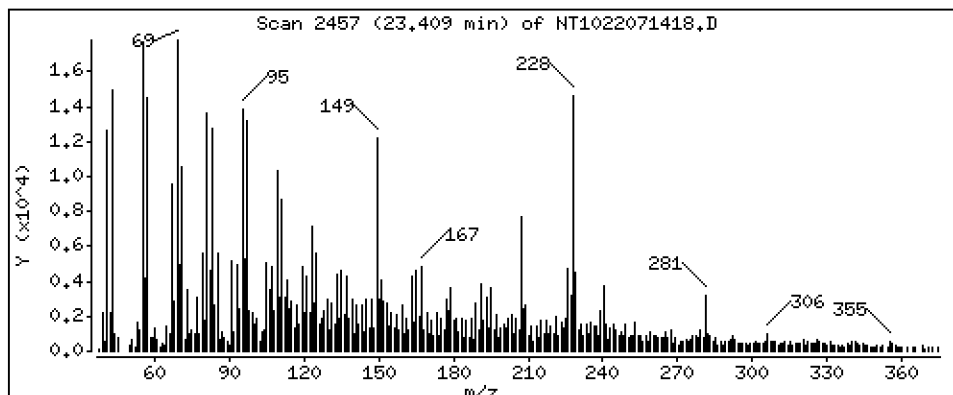
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1969 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

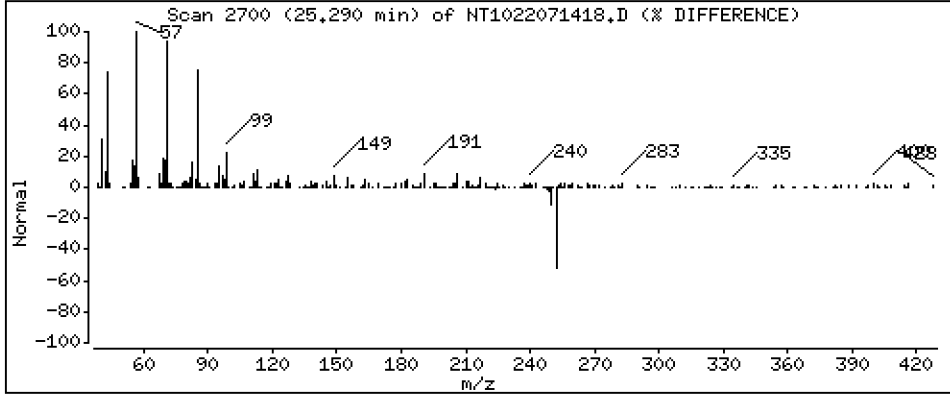
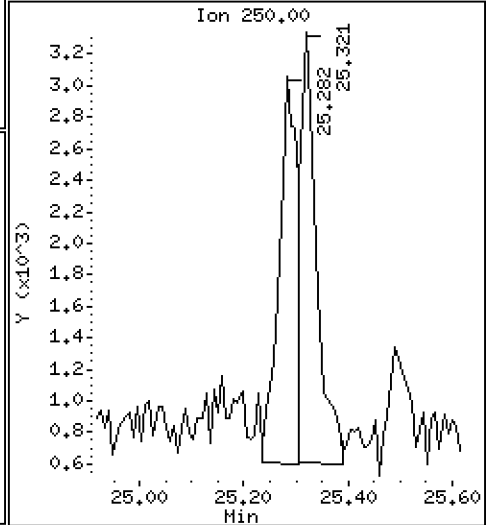
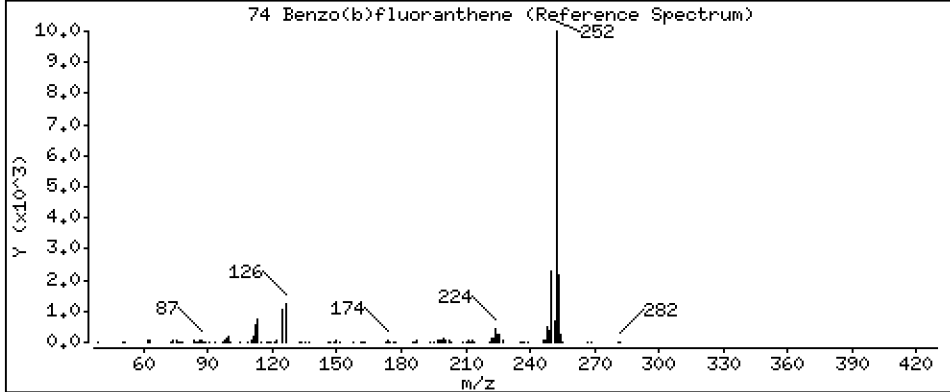
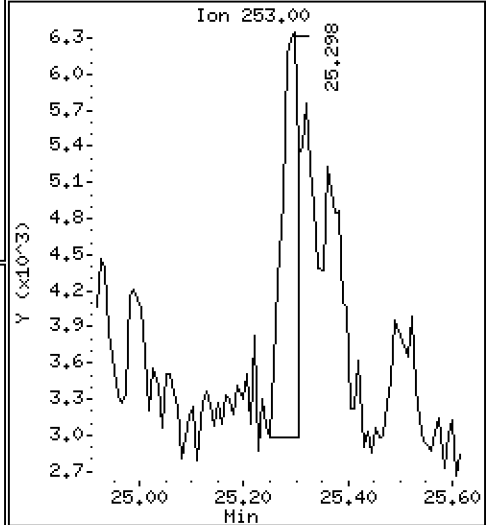
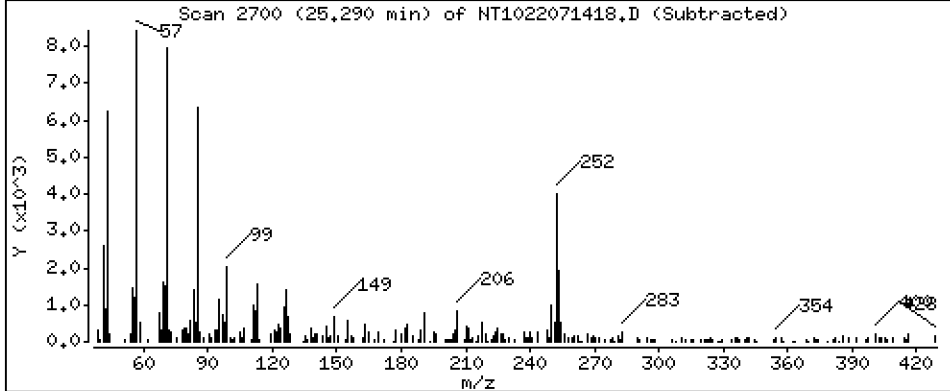
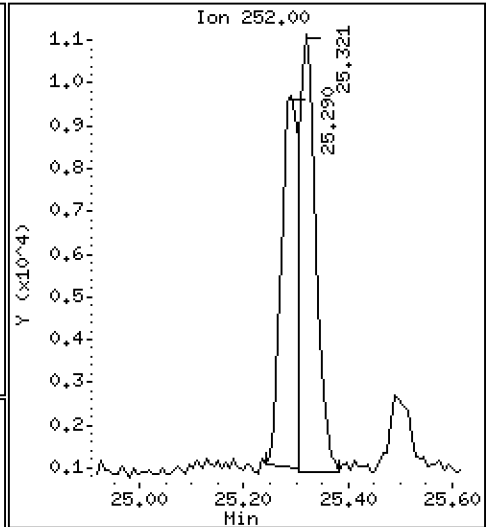
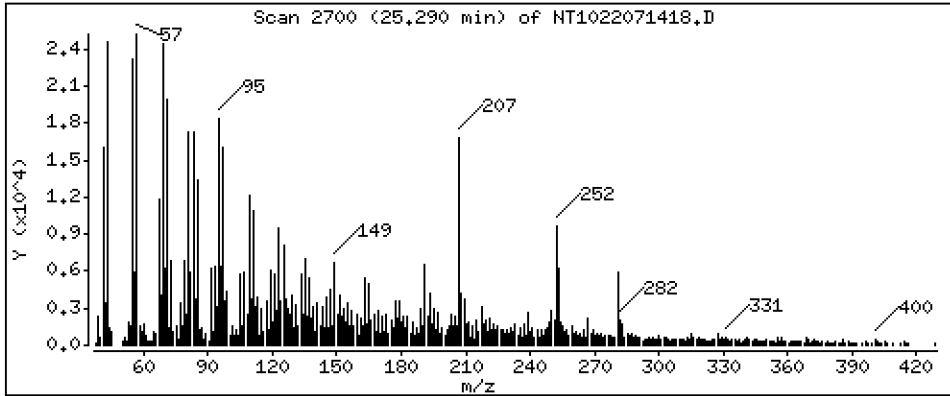
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,1660 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

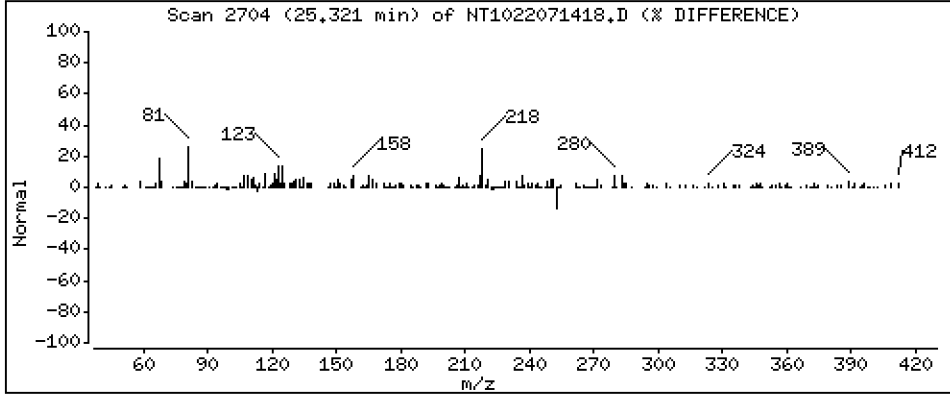
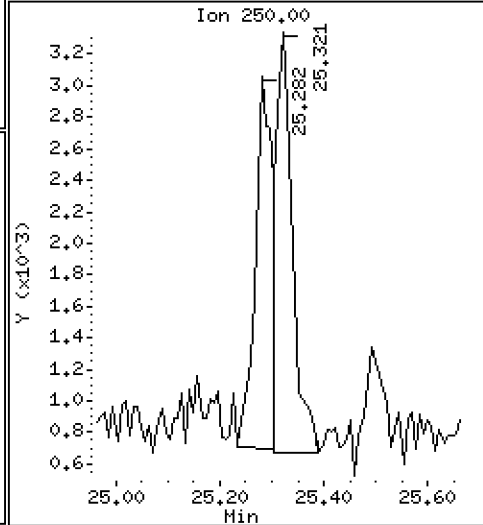
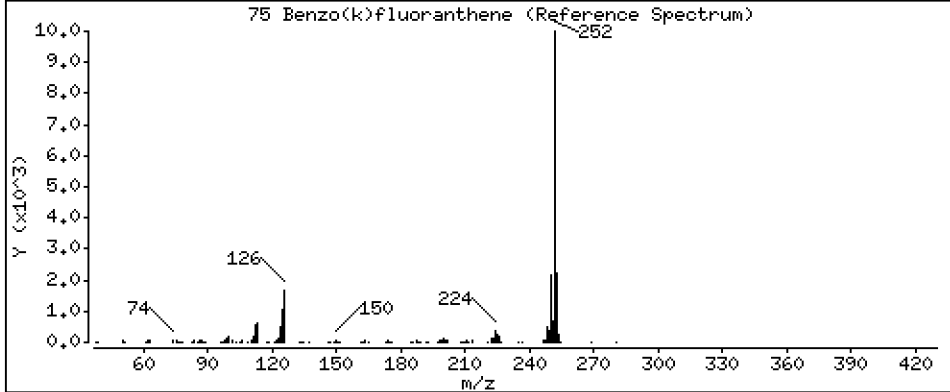
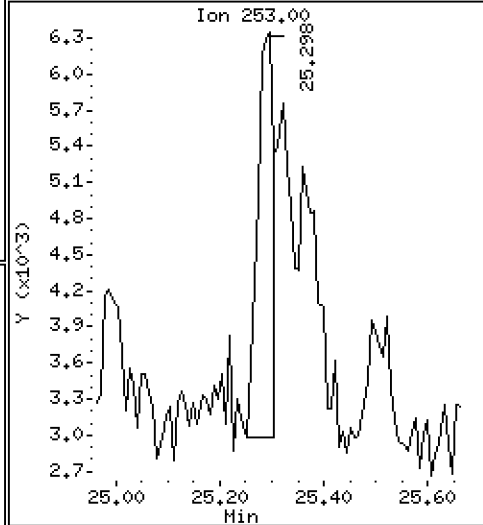
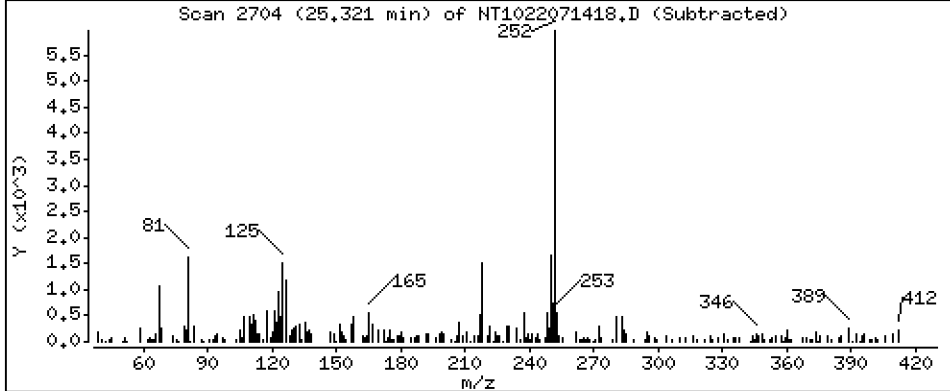
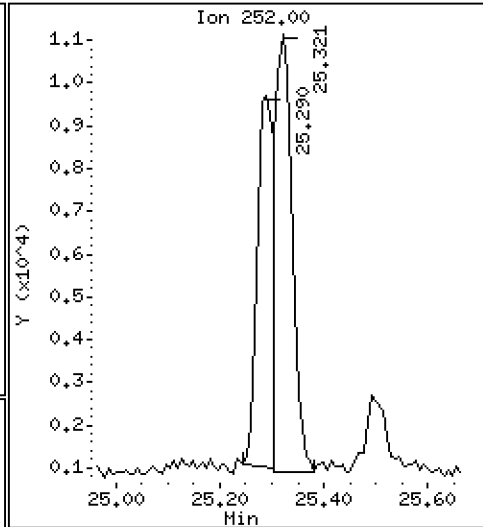
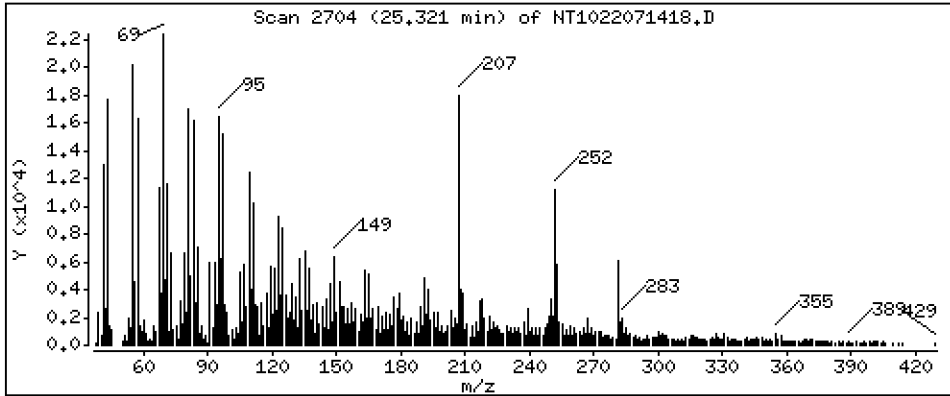
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2031 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

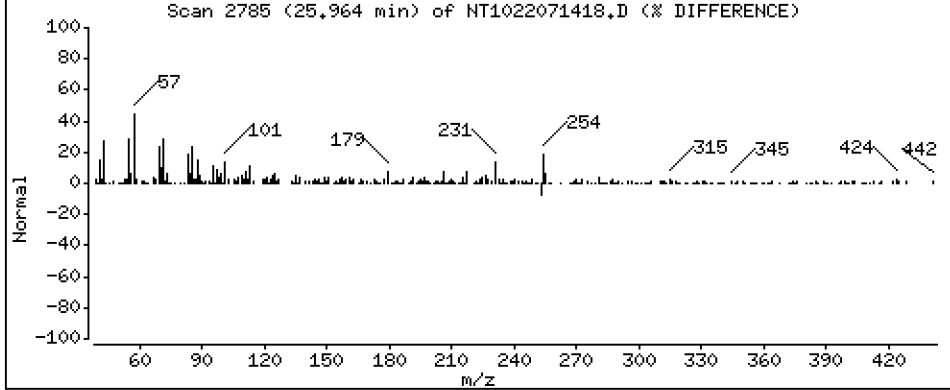
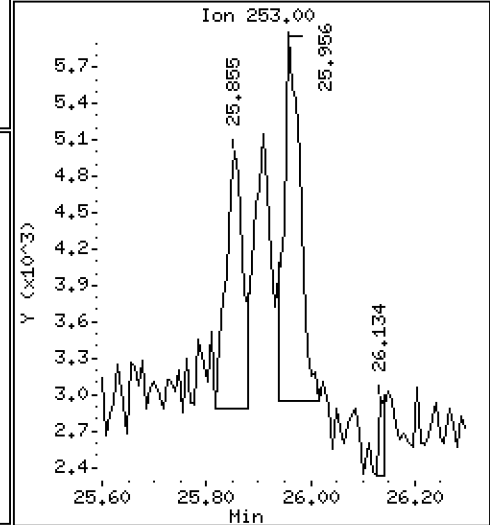
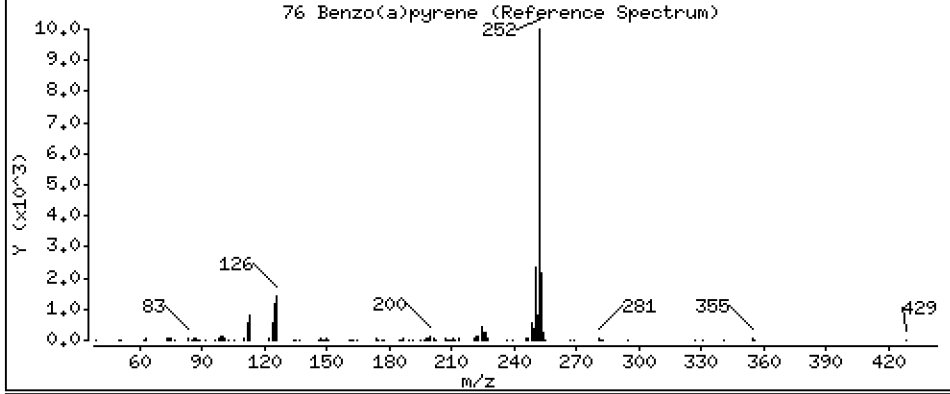
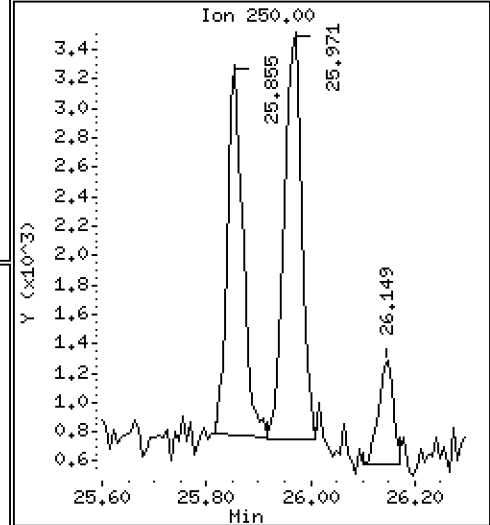
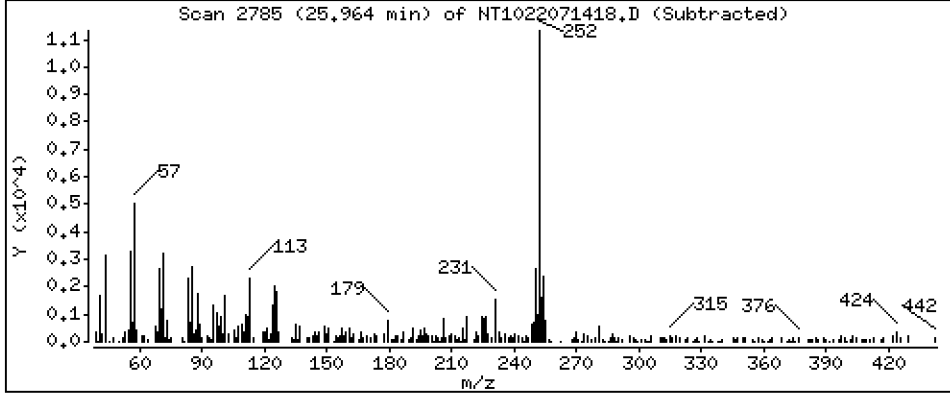
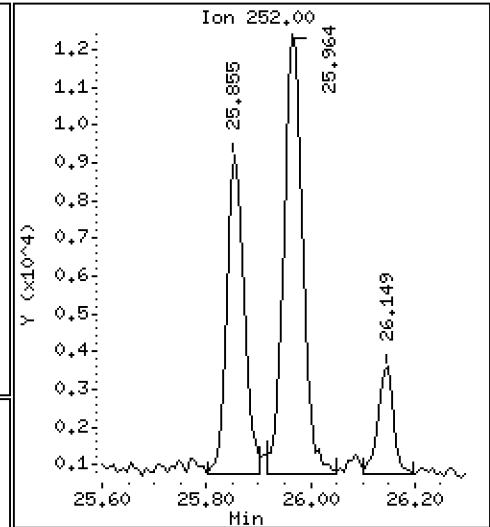
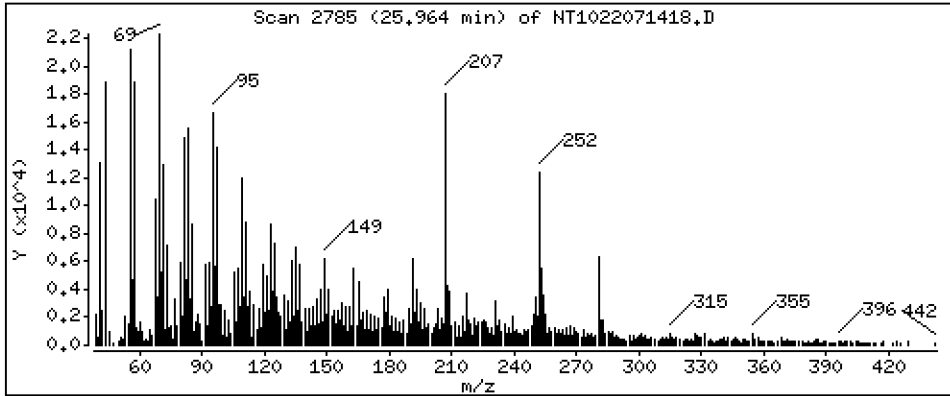
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,3038 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

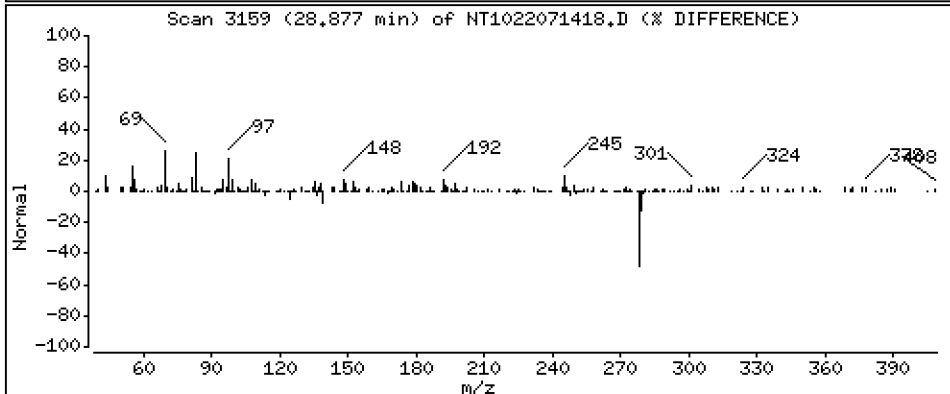
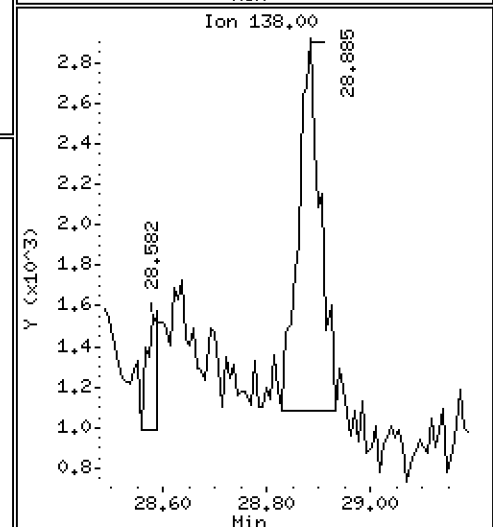
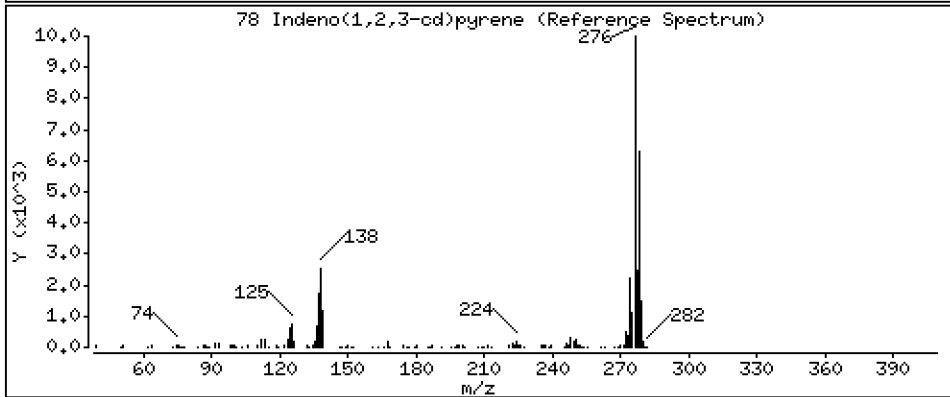
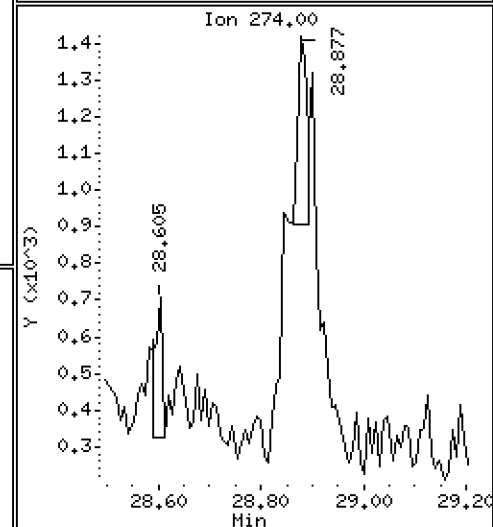
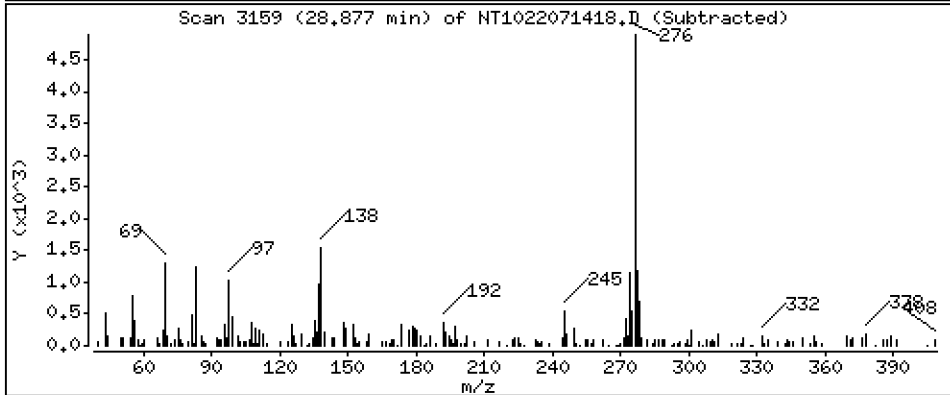
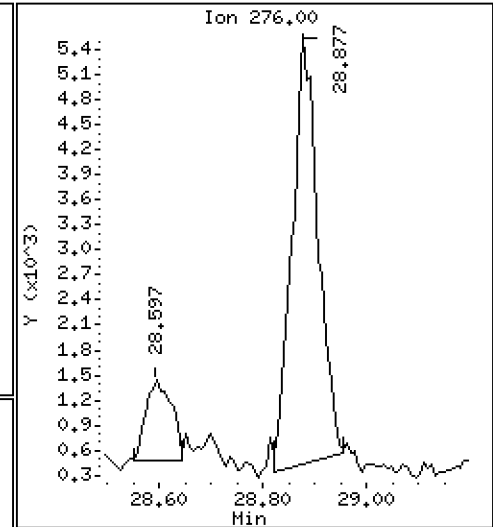
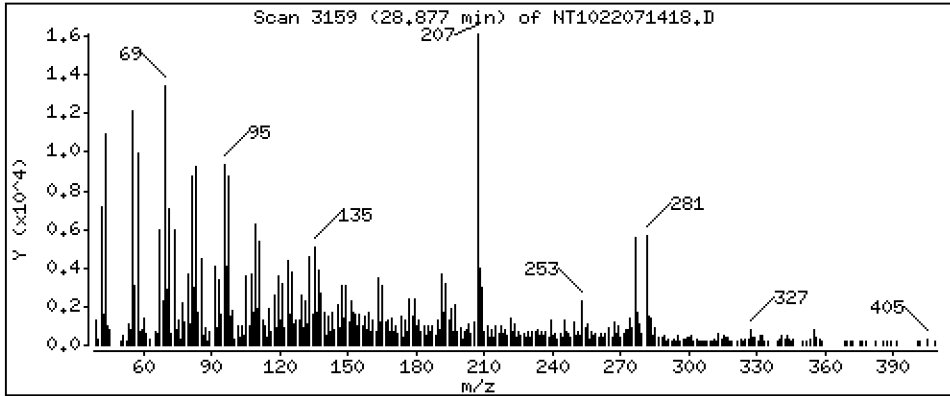
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 0.1713 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

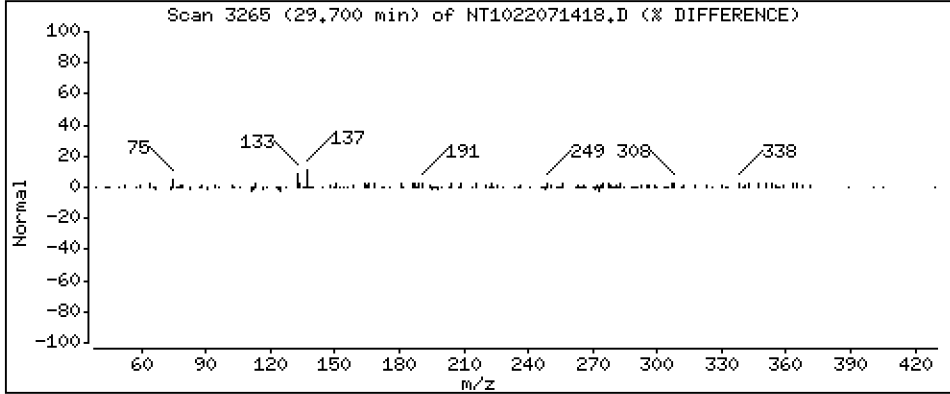
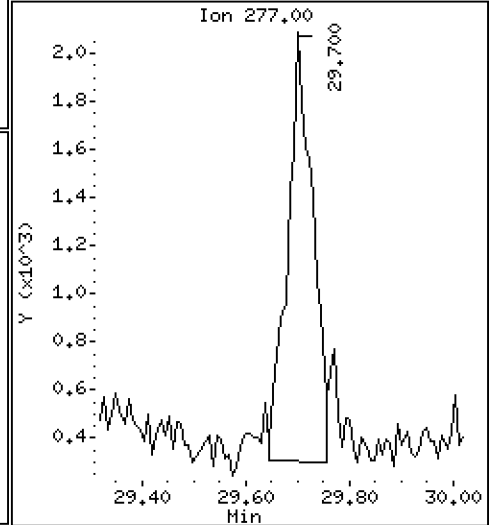
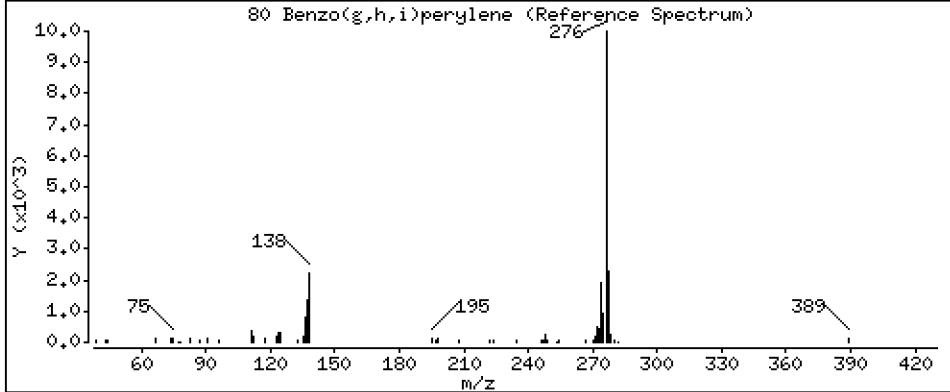
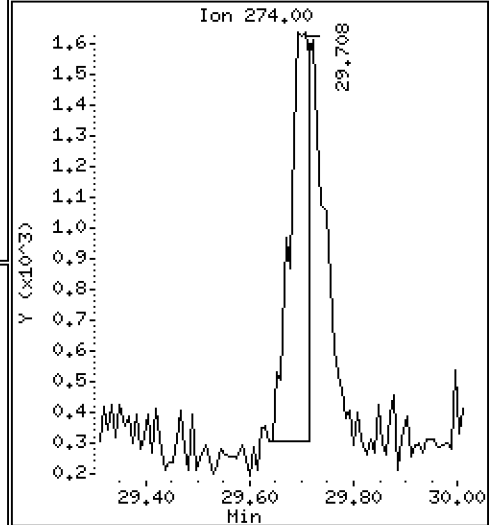
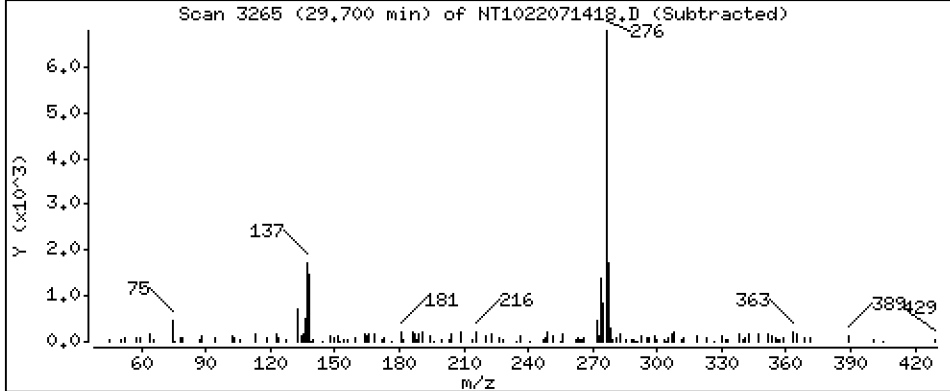
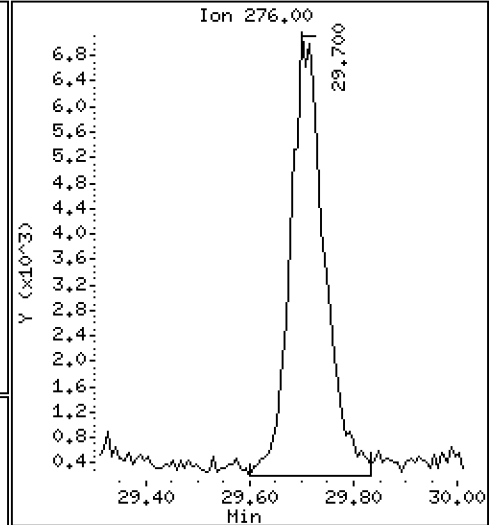
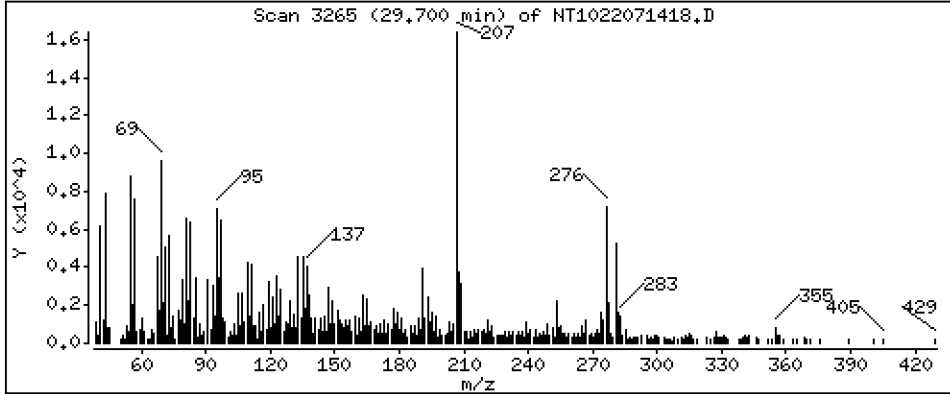
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,3808 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

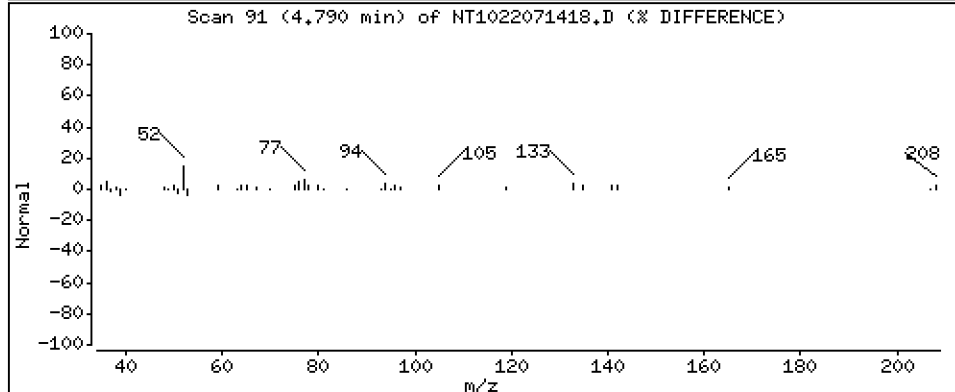
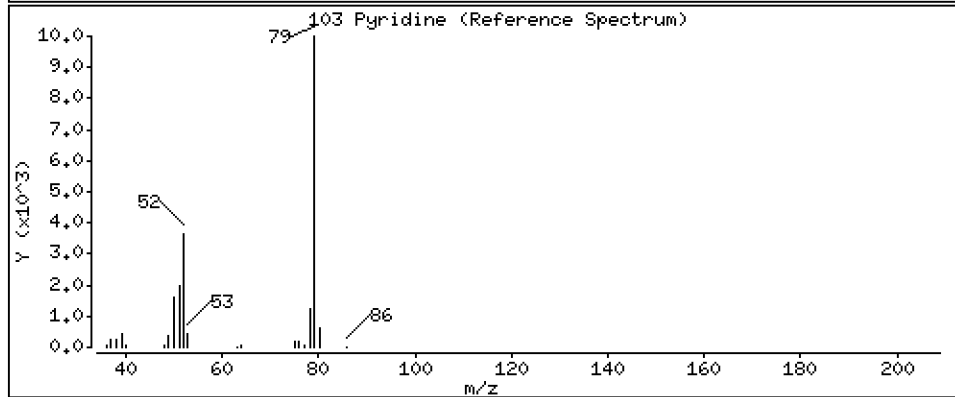
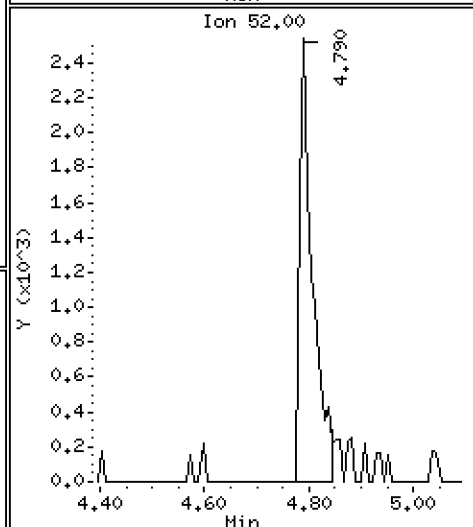
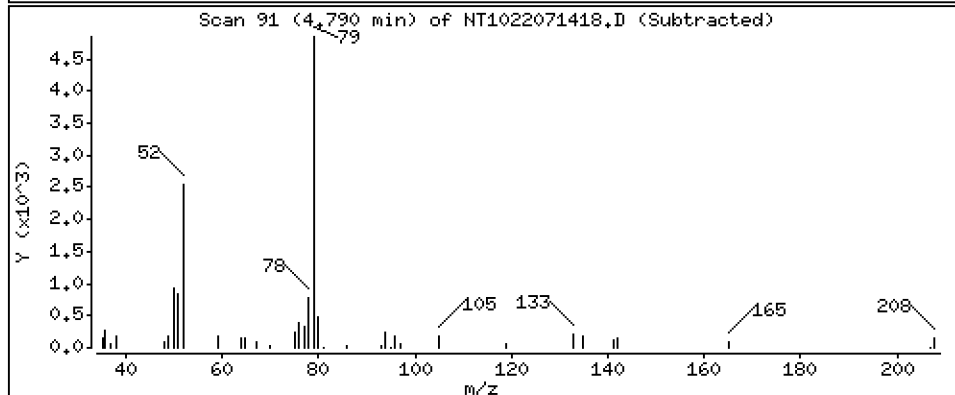
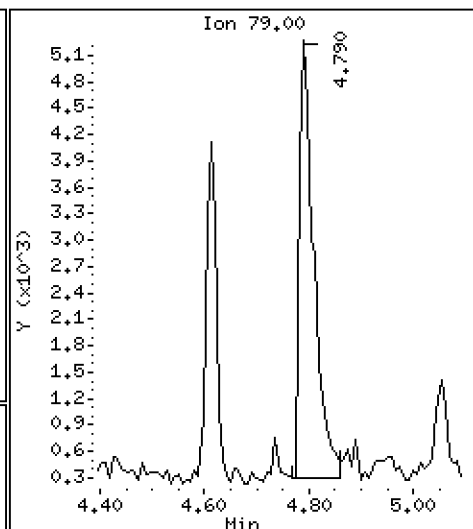
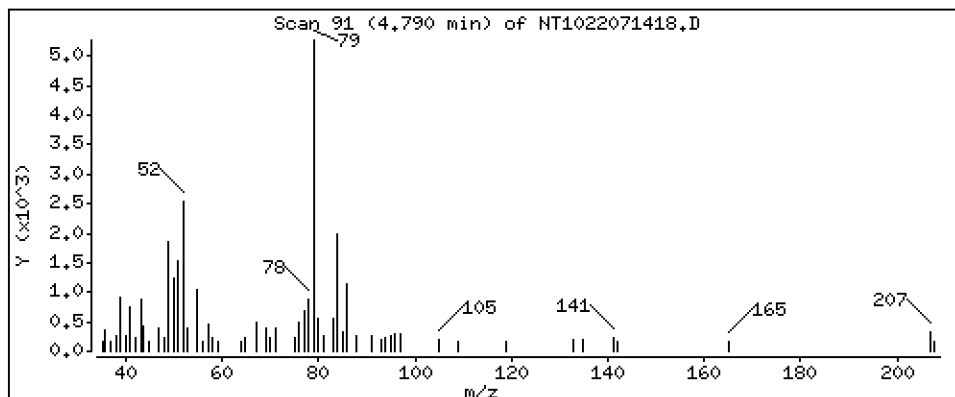
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,06819 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 2200019-10

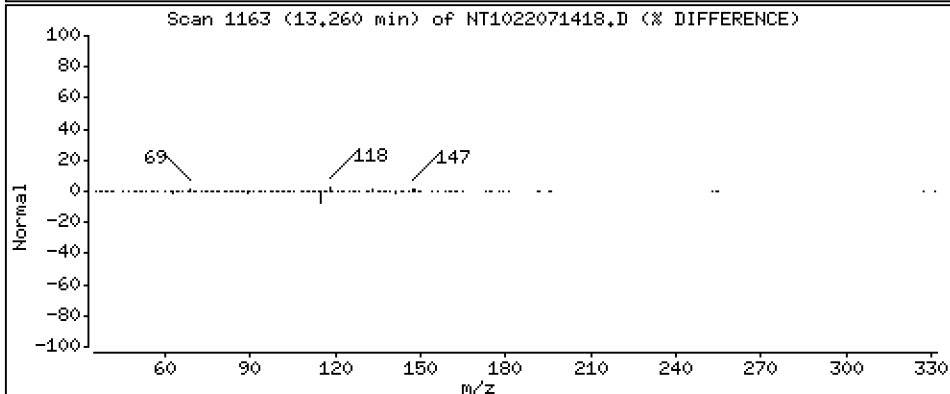
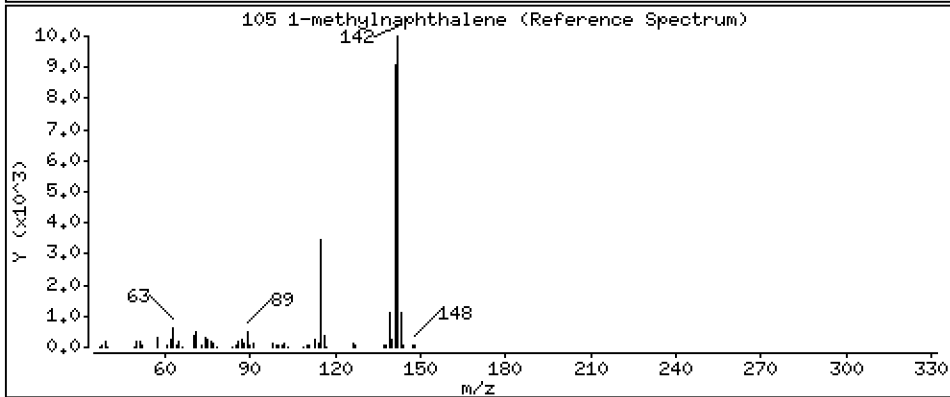
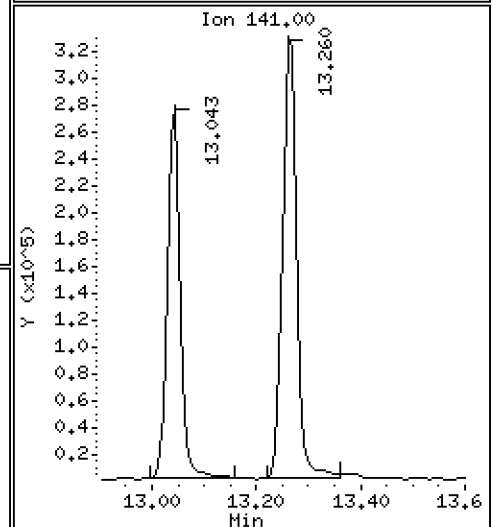
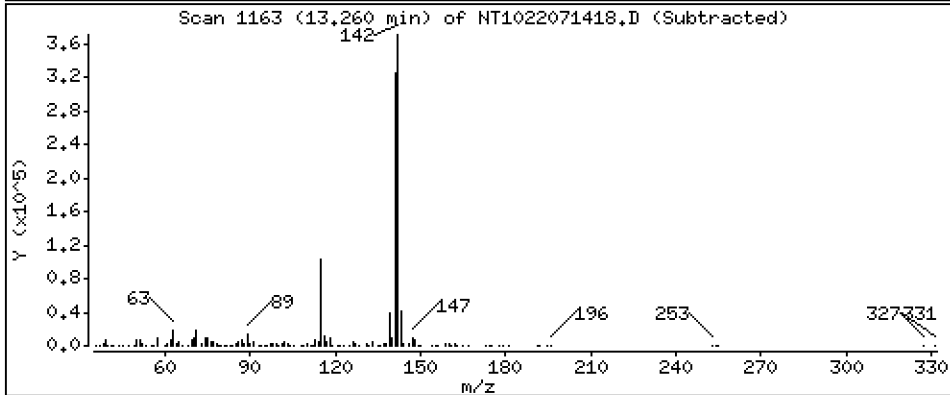
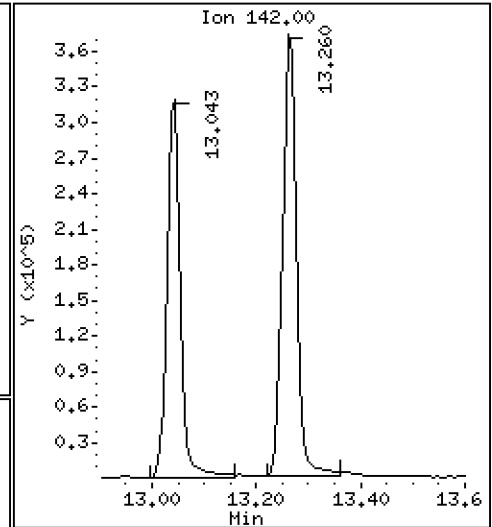
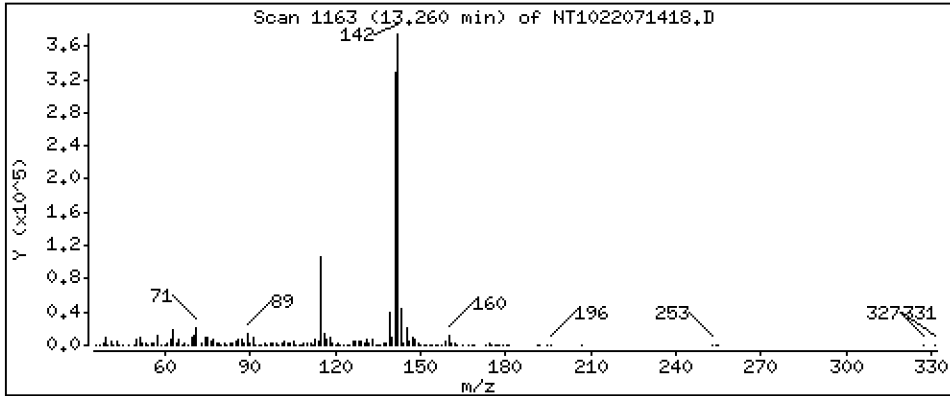
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 3,877 ug/mL



Date : 15-JUL-2022 00:44

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-10

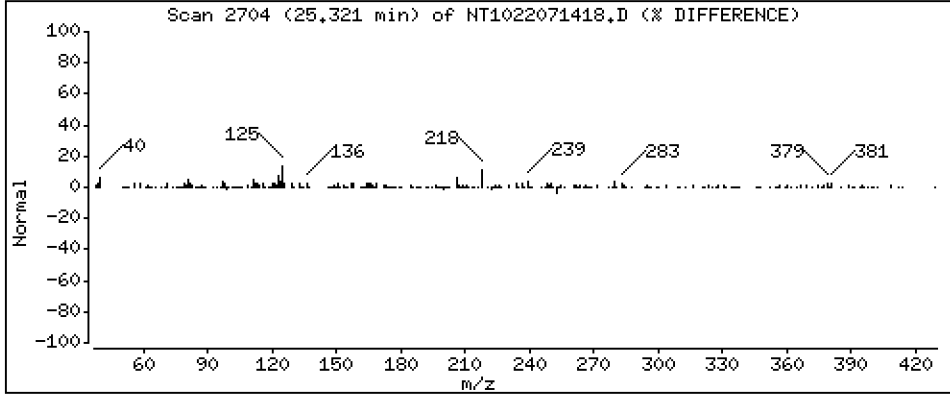
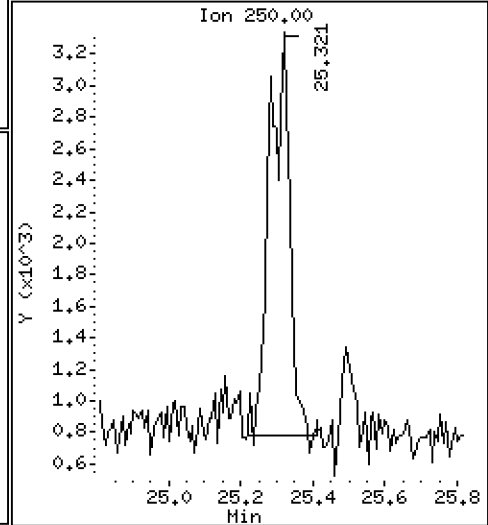
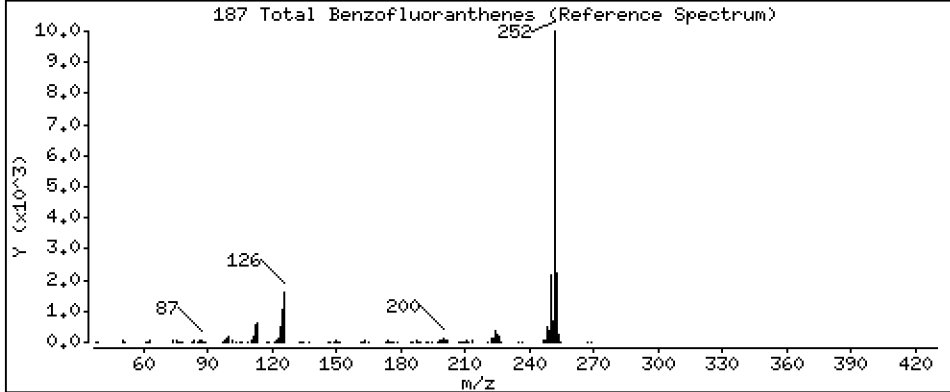
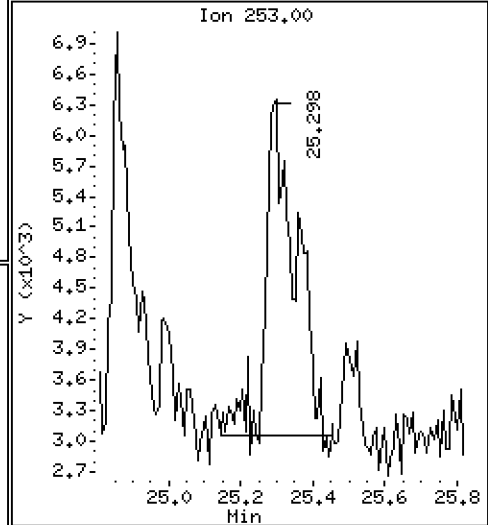
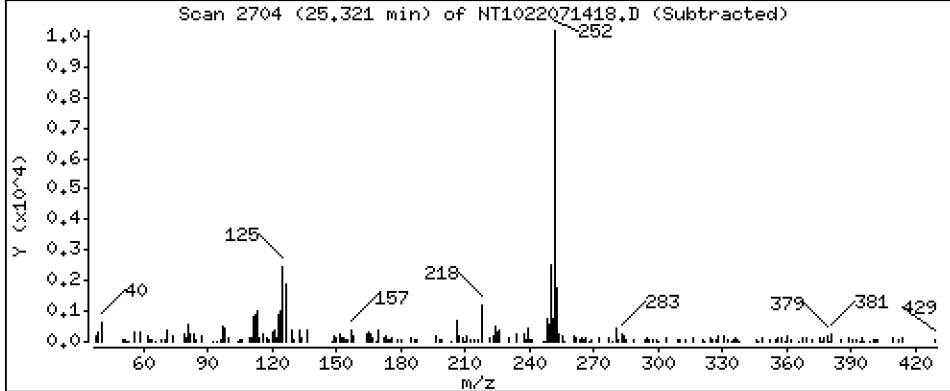
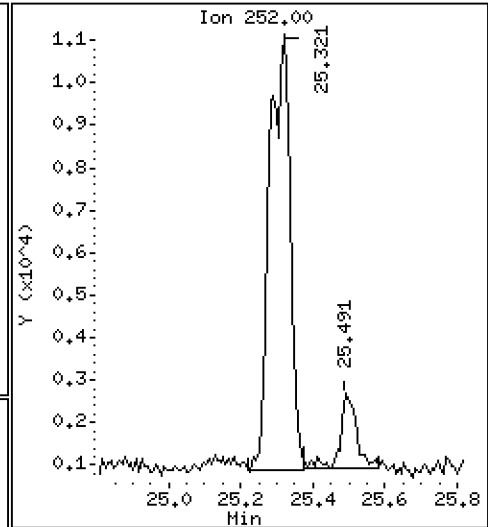
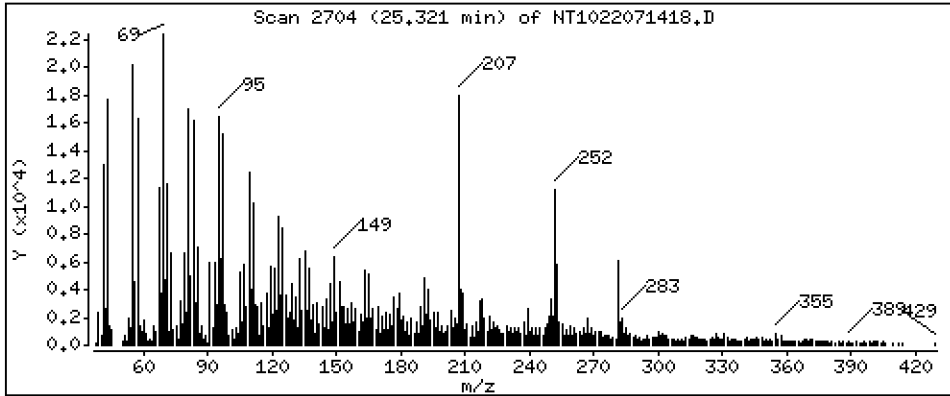
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,3627 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071418.D
 Lab Smp Id: 22G0019-10
 Inj Date : 15-JUL-2022 00:44
 Operator : VTS
 Smp Info : 22G0019-10
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 14-Jul-2022 14:47 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 18
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.914	6.906	(0.759)	395920	5.05240	5.052
\$ 2 Phenol-d5	99		8.506	8.490	(0.934)	474915	4.08447	4.084
3 Phenol	94		Compound Not Detected.					
\$ 5 2-Chlorophenol-d4	132		8.760	8.753	(0.962)	564616	7.07124	7.071
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.101	(1.000)	214602	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.466	9.466	(1.039)	237584	4.82877	4.829
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		10.203	10.195	(0.880)	288277	3.80525	3.805
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.596	11.589	(1.000)	711966	4.00000	
28 Naphthalene	128		11.635	11.627	(1.003)	456936	2.50768	2.508
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		13.043	13.027	(1.125)	581398	3.21045	3.210
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.817	13.809	(0.907)	855852	5.08822	5.088
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152		14.916	14.900	(0.980)	58591	0.26966	0.2697
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.225	15.210	(1.000)	371696	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.287	15.279	(1.004)	62000	0.57355	0.5735
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.619	15.612	(1.026)	34108	0.19854	0.1985
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149		16.184	16.176	(1.063)	15089	0.13494	0.1349
49 Fluorene	166		16.338	16.323	(1.073)	99188	0.48319	0.4832
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.886	16.870	(1.109)	156291	9.20273	9.203
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.277	18.269	(1.000)	667694	4.00000	
60 Phenanthrene	178		18.331	18.316	(1.003)	207435	1.18253	1.183
61 Anthracene	178		18.424	18.416	(1.008)	41884	0.22406	0.2241
62 Carbazole	167		18.772	18.757	(1.027)	9815	0.05691	0.05691
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.737	20.722	(0.887)	171630	0.75477	0.7548
65 Pyrene	202		21.163	21.147	(0.906)	169158	0.84943	0.8494
\$ 66 Terphenyl-d14	244		21.441	21.434	(0.918)	527619	4.69954	4.700
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.346	23.331	(0.999)	28888	0.21190	0.2119
* 69 Chrysene-d12	240		23.369	23.362	(1.000)	321718	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.416	23.408	(1.002)	31150	0.34459	0.3446
72 bis(2-Ethylhexyl)phthalate	149		23.408	23.400	(0.958)	12115	0.19693	0.1969
* 134 Di-n-octylphthalate-d4	153		24.422	24.407	(1.000)	556590	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.289	25.266	(0.969)	20048	0.16603	0.1660
75 Benzo(k)fluoranthene	252		25.320	25.313	(0.971)	23585	0.20312	0.2031
76 Benzo(a)pyrene	252		25.963	25.948	(0.995)	30019	0.30375	0.3038
* 77 Perylene-d12	264		26.087	26.064	(1.000)	266626	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.876	28.845	(1.107)	18078	0.17132	0.1713
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276		29.700	29.661	(1.138)	32118	0.38078	0.3808
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79		4.790	4.743	(0.526)	9911	0.06819	0.06819
105 1-methylnaphthalene	142		13.259	13.252	(1.143)	689728	3.87666	3.877
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.320	25.313	(0.971)	40831	0.36266	0.3627	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071418.D Calibration Time: 14:12
 Lab Smp Id: 22G0019-10
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	214602	9.58
27 Naphthalene-d8	626038	313019	1252076	711966	13.73
42 Acenaphthene-d10	366612	183306	733224	371696	1.39
59 Phenanthrene-d10	635137	317569	1270274	667694	5.13
69 Chrysene-d12	270778	135389	541556	321718	18.81
134 Di-n-octylphthala	507031	253516	1014062	556590	9.77
77 Perylene-d12	170107	85054	340214	266626	56.74

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.11	0.09
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.07
42 Acenaphthene-d10	15.21	14.71	15.71	15.23	0.10
59 Phenanthrene-d10	18.27	17.77	18.77	18.28	0.04
69 Chrysene-d12	23.36	22.86	23.86	23.37	0.03
134 Di-n-octylphthala	24.41	23.91	24.91	24.42	0.06
77 Perylene-d12	26.06	25.56	26.56	26.09	0.09

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

REVIEW SUMMARY FOR FILE - NT1022071418.D

Lab ID: 22G0019-10
nt10.i, ABN.m, 15-JUL-2022 00:44

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022071402.D

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

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



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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-11 A

SDG: 22G0019

Sampled: 06/29/22 12:00

Prepared: 07/07/22 10:01

File ID: NT1022071419.D

% Solids: 77.99

Preparation: EPA 3546 (Microwave)

Analyzed: 07/15/22 01:23

Batch: BKG0069

Sequence: SKG0139

Initial/Final: 12.85 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	1	1310		4.2	20.0
91-57-6	2-Methylnaphthalene	1	389		4.5	20.0
83-32-9	Acenaphthene	1	1690		5.2	20.0
87-86-5	Pentachlorophenol	1	31.2	U	31.2	99.8
85-01-8	Phenanthrene	1	5400	E	8.7	20.0
206-44-0	Fluoranthene	1	2860	Q, E	6.1	20.0
56-55-3	Benzo(a)anthracene	1	1570		5.9	20.0
218-01-9	Chrysene	1	1750		6.0	20.0
205-99-2	Benzo(b)fluoranthene	1	1040		7.0	20.0
207-08-9	Benzo(k)fluoranthene	1	1450		5.0	20.0
50-32-8	Benzo(a)pyrene	1	1780		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	368		14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	157		17.2	20.0
90-12-0	1-Methylnaphthalene	1	6670	E	5.2	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.37	477	63.8	27 - 120	
Phenol-d5	748.37	423	56.5	29 - 120	
2-Chlorophenol-d4	748.37	652	87.2	31 - 120	
1,2-Dichlorobenzene-d4	498.92	473	94.8	32 - 120	
Nitrobenzene-d5	498.92	373	74.8	30 - 120	
2-Fluorobiphenyl	498.92	516	103	35 - 120	
2,4,6-Tribromophenol	748.37	777	104	24 - 134	
p-Terphenyl-d14	498.92	436	87.4	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220714.6\NT1022071419.D

Date: 15-JUL-2022 01:23

Client ID:

Sample Info: 2200019-11

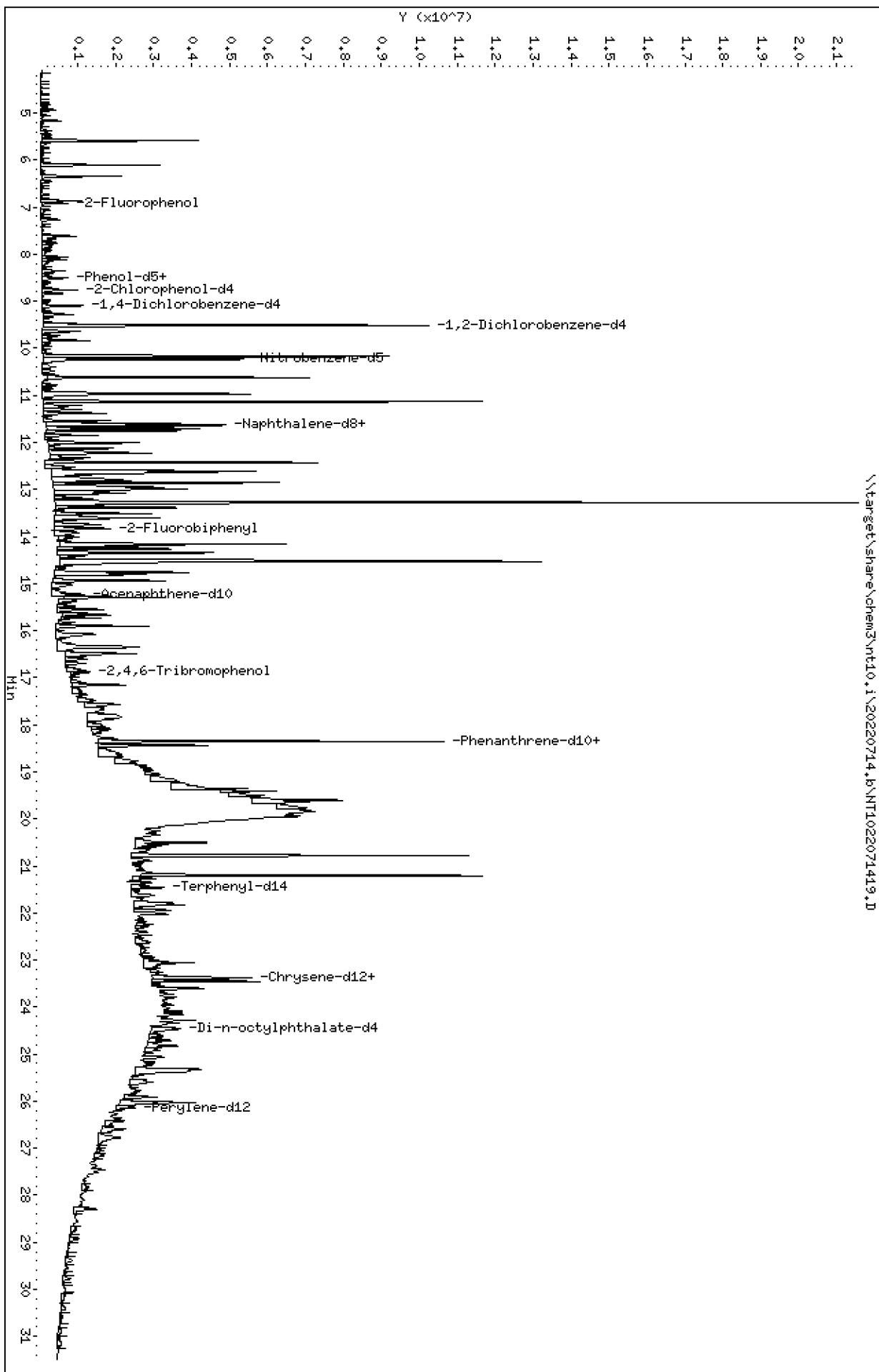
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

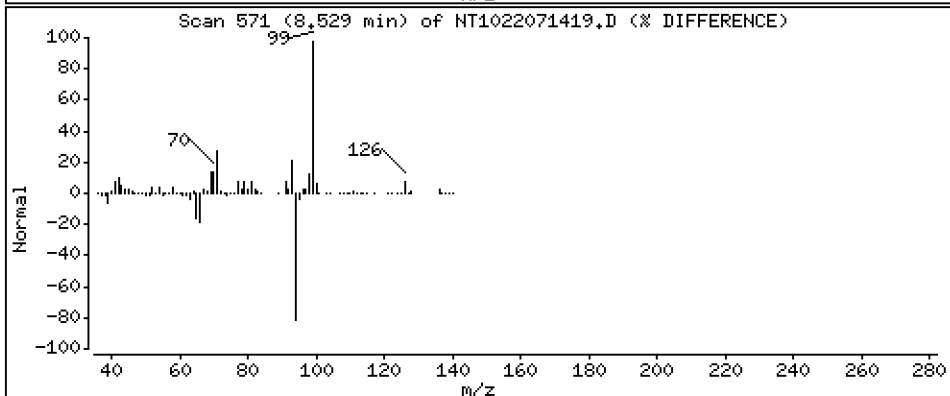
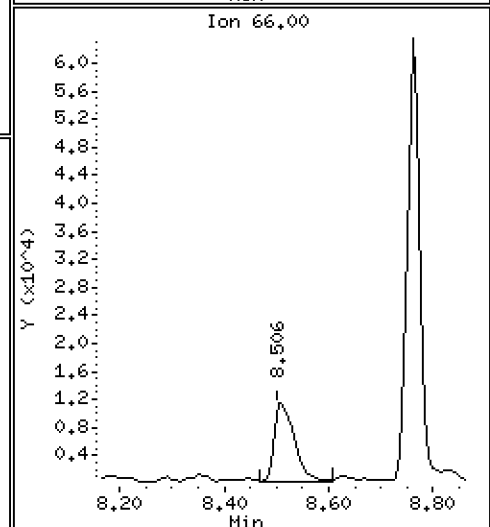
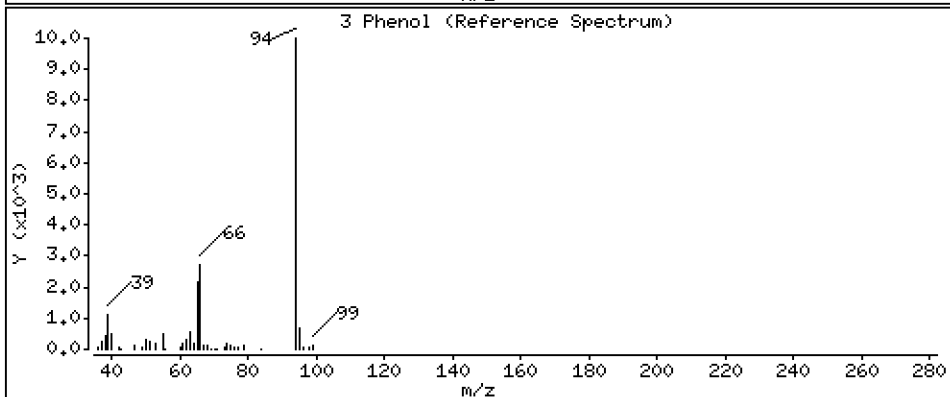
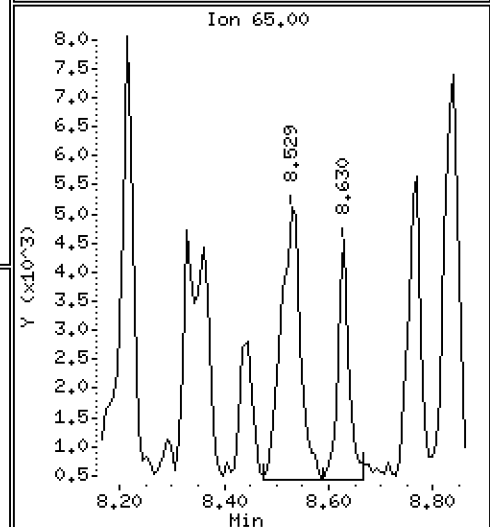
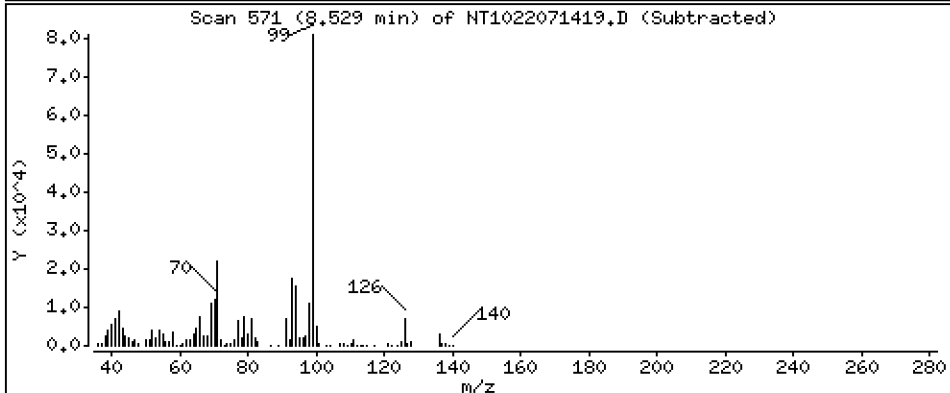
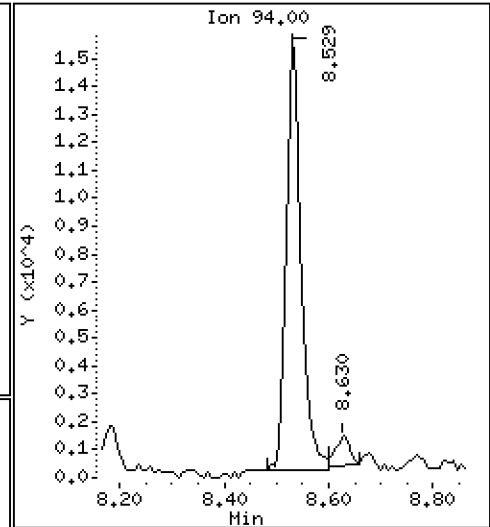
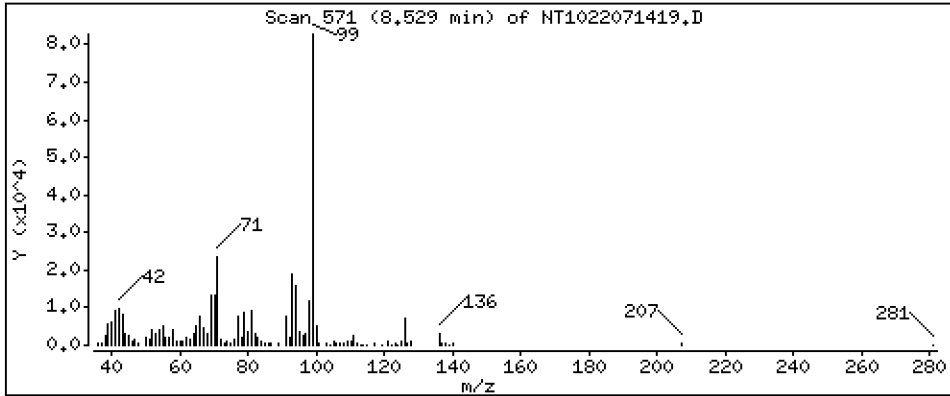
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,2871 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 2200019-11

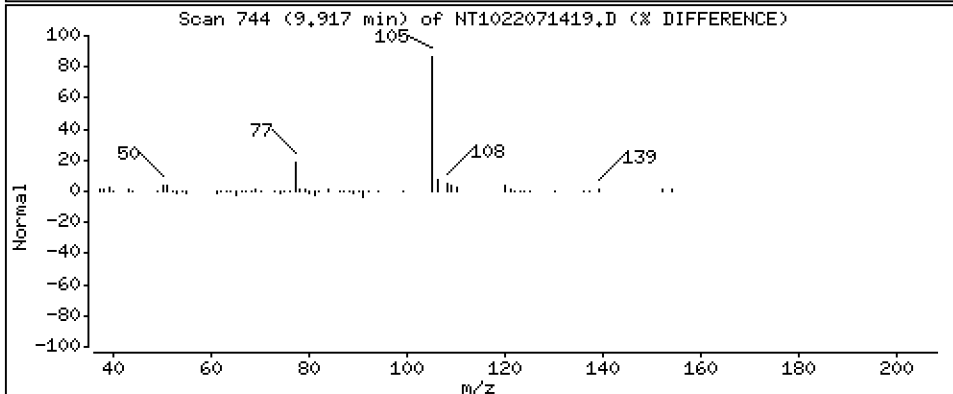
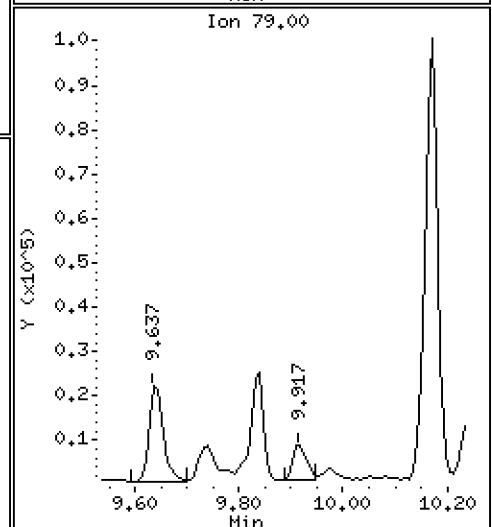
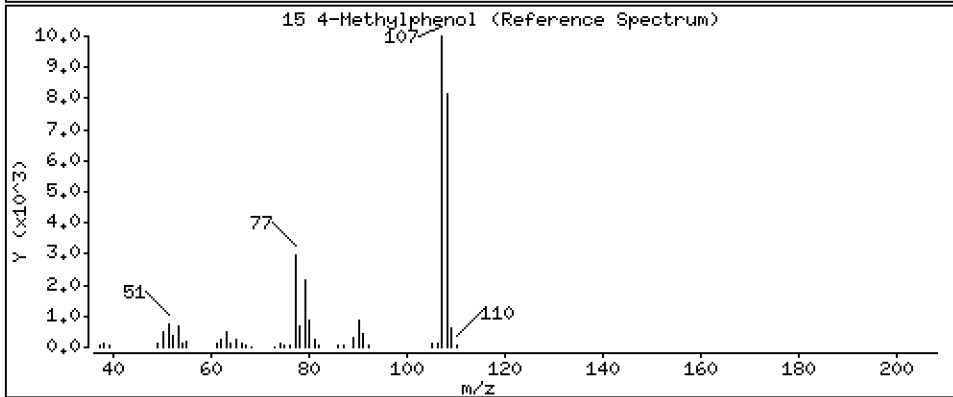
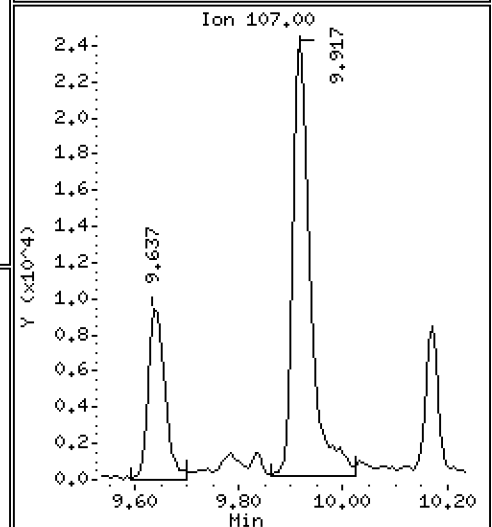
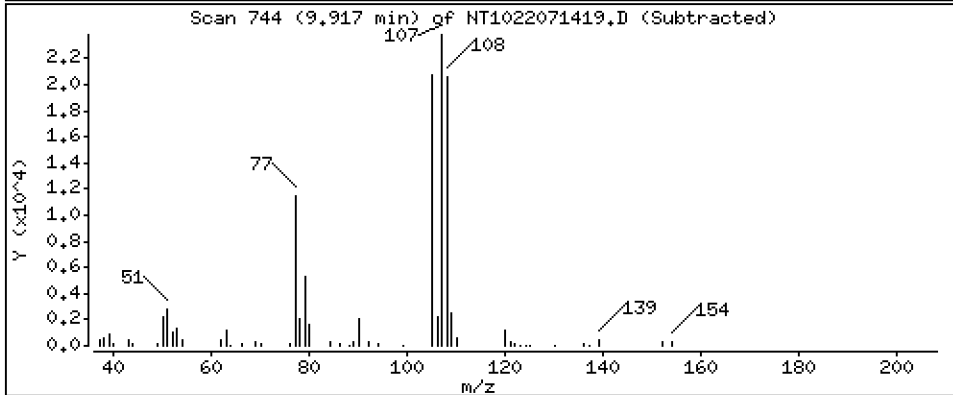
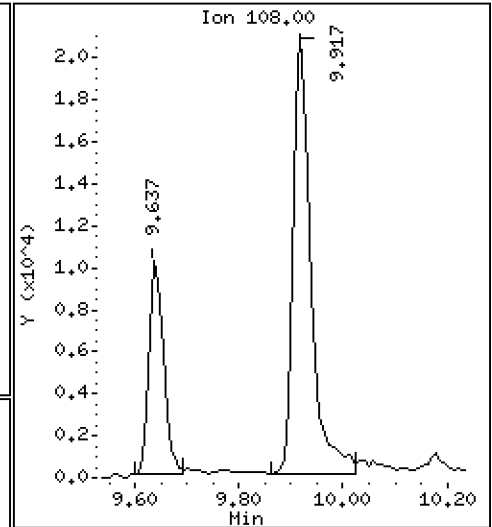
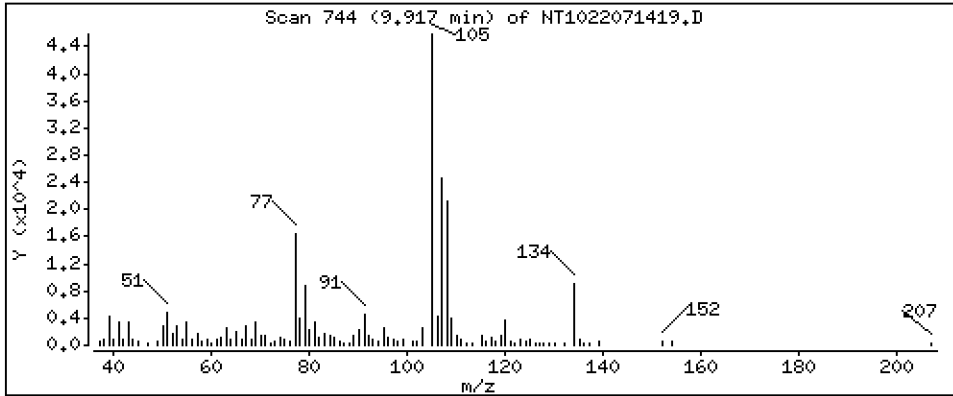
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.7349 ug/mL

15 4-Methylphenol



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

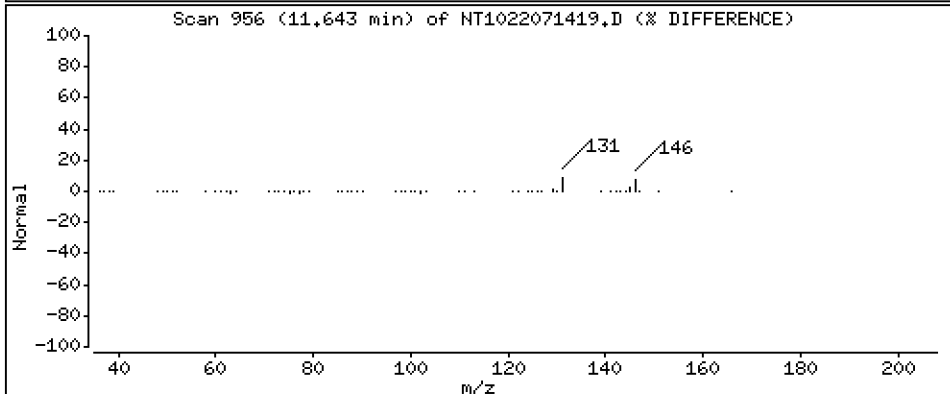
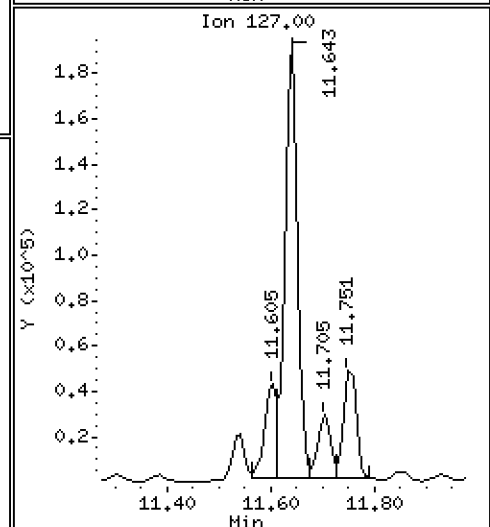
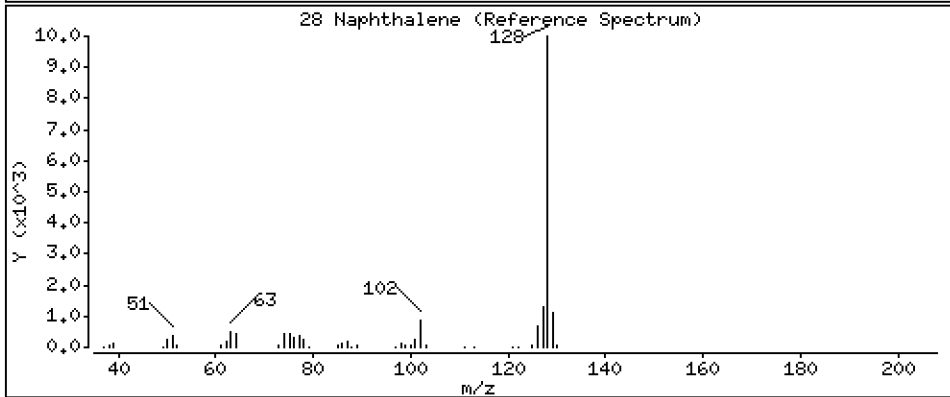
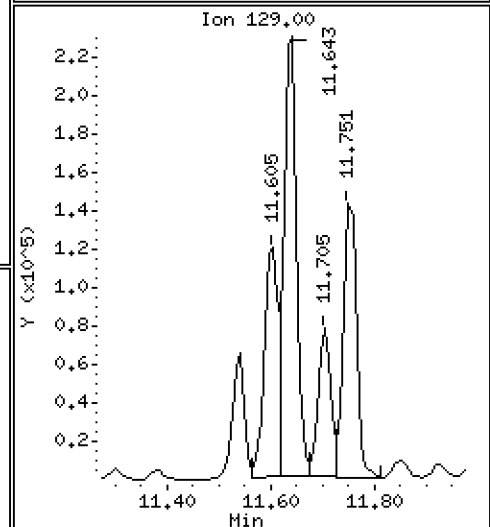
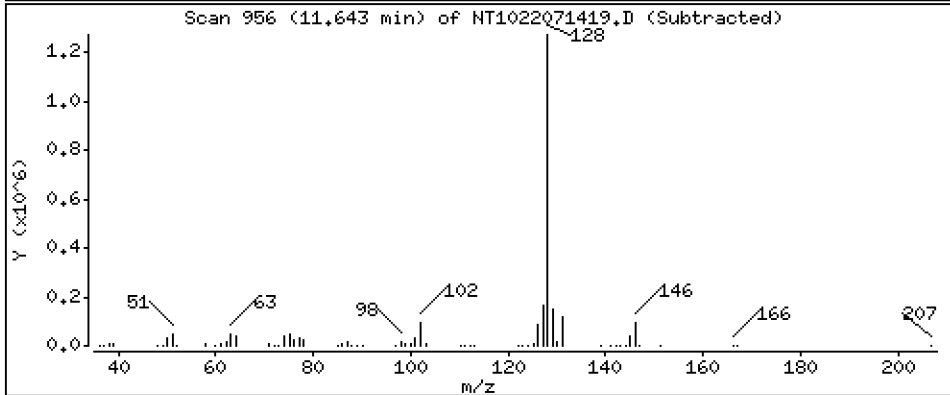
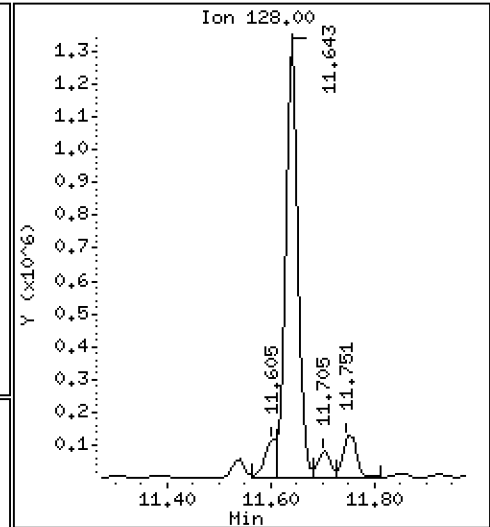
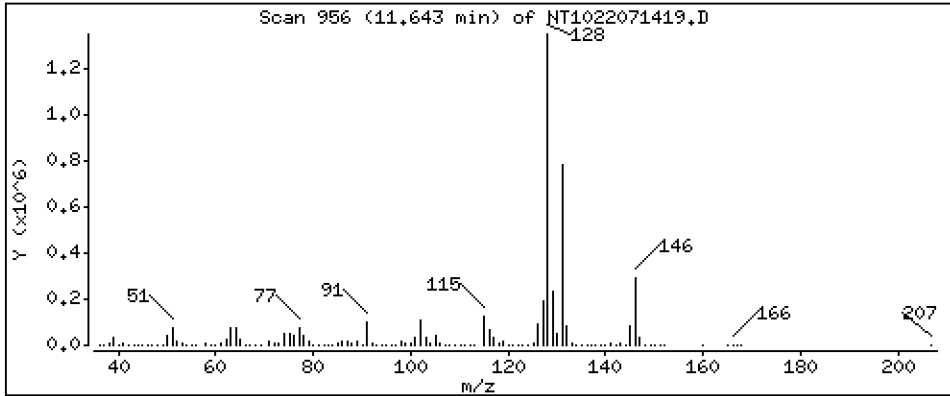
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 13,13 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 2200019-11

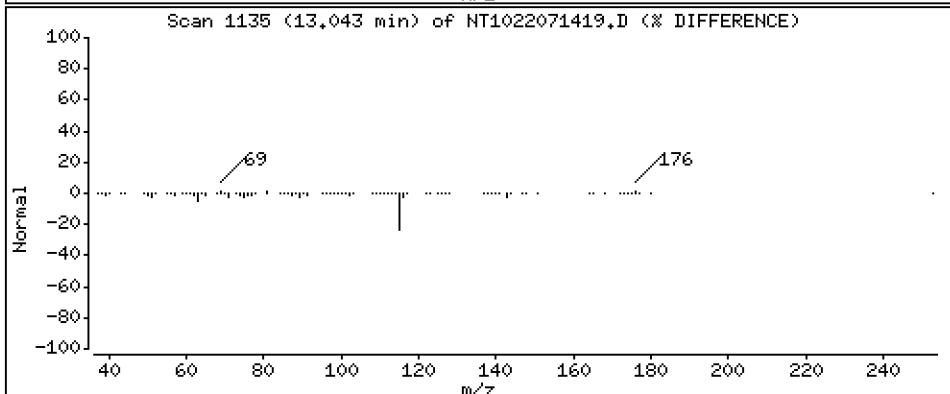
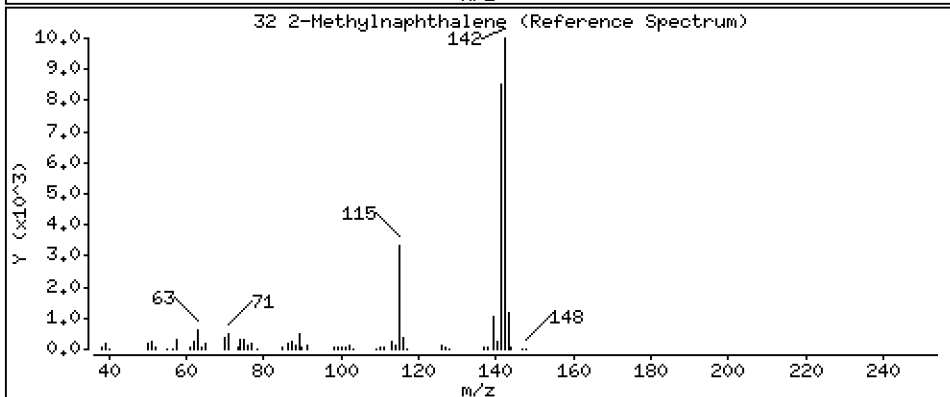
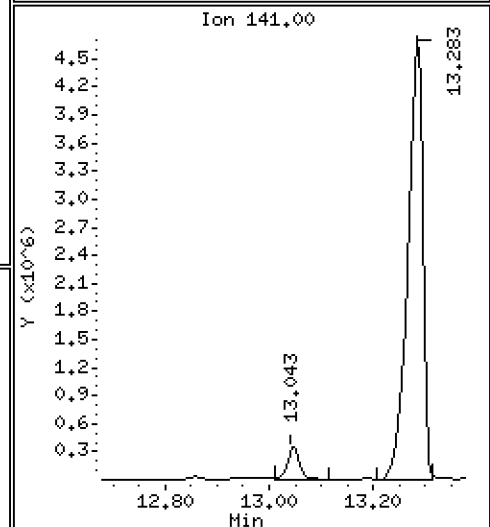
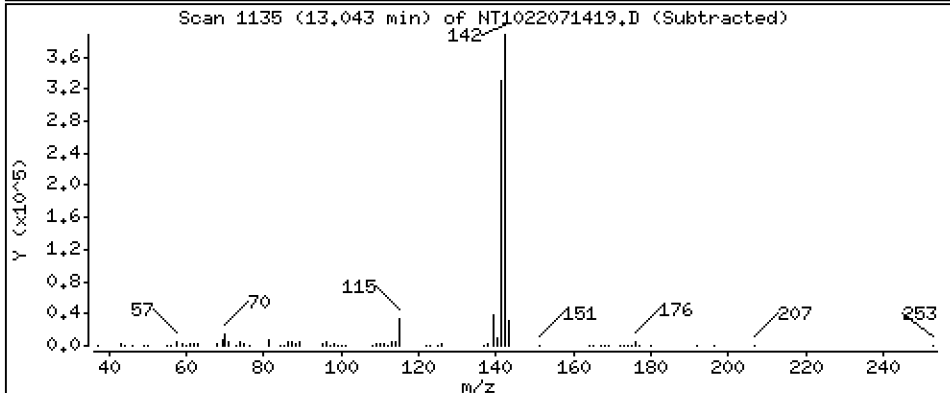
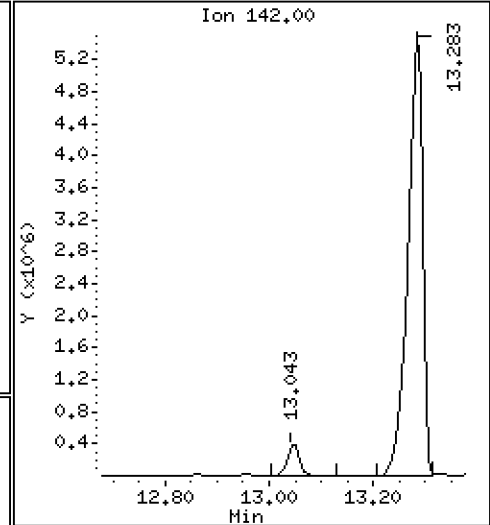
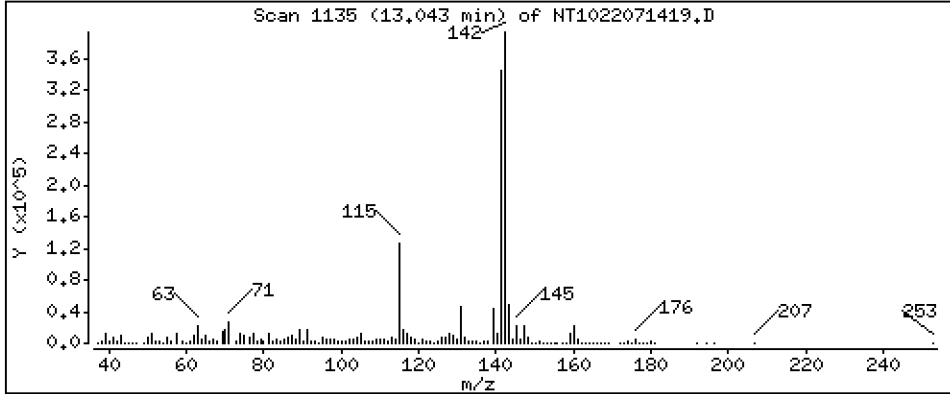
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 3,903 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

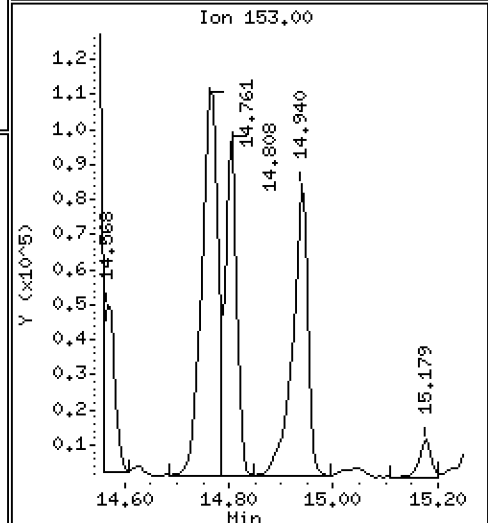
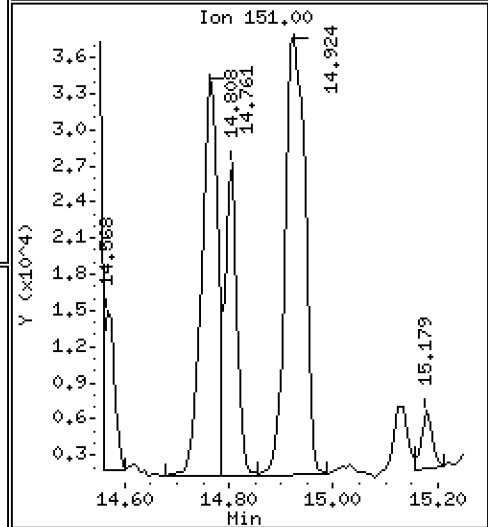
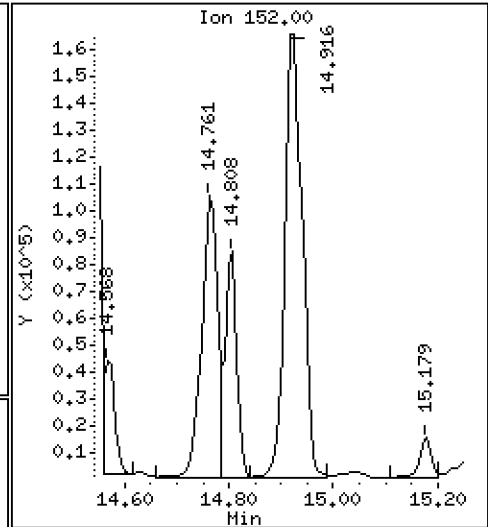
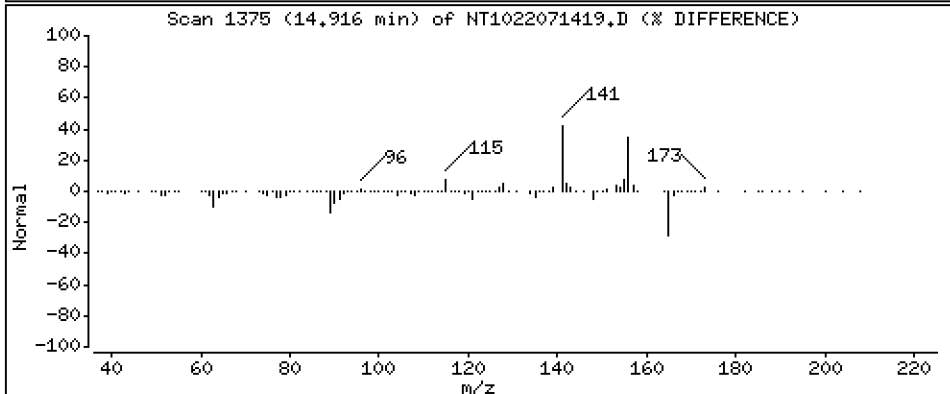
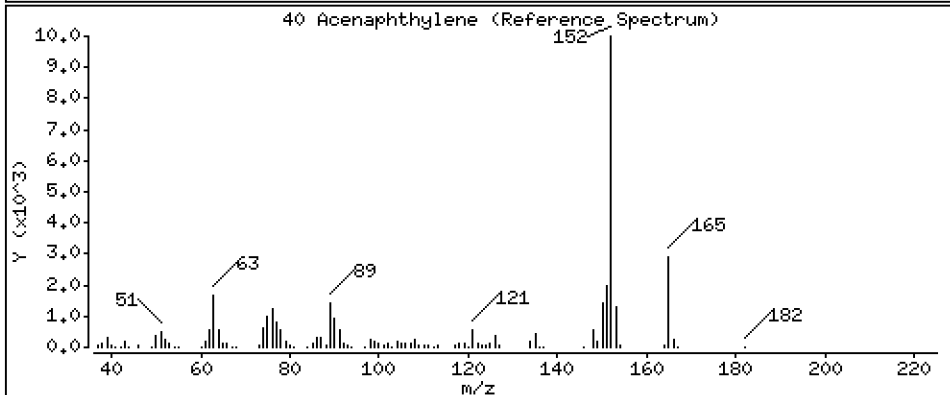
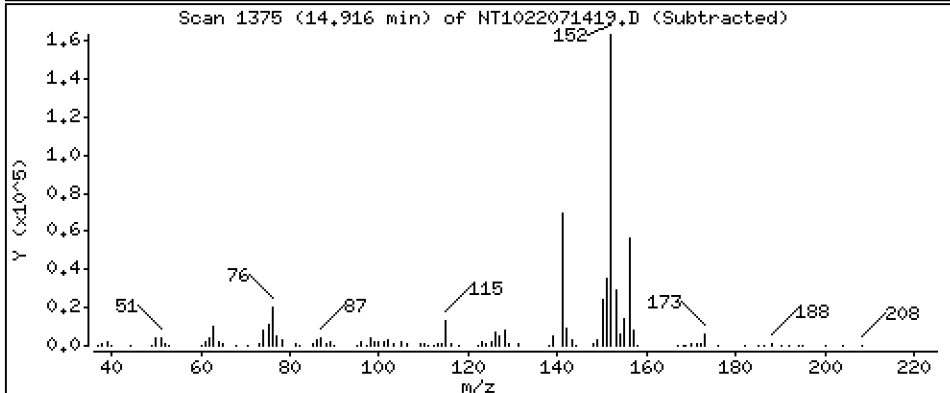
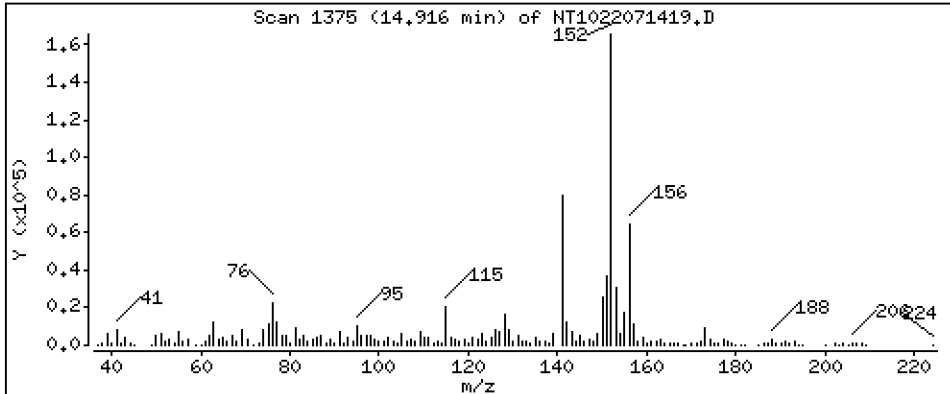
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 2,488 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 2200019-11

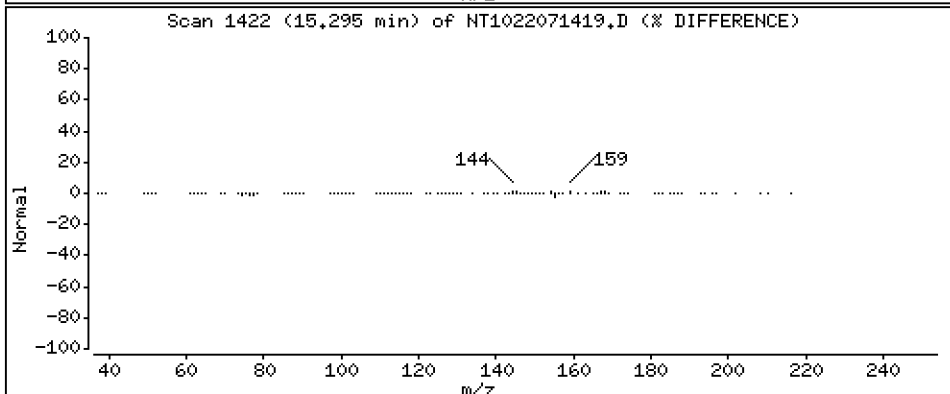
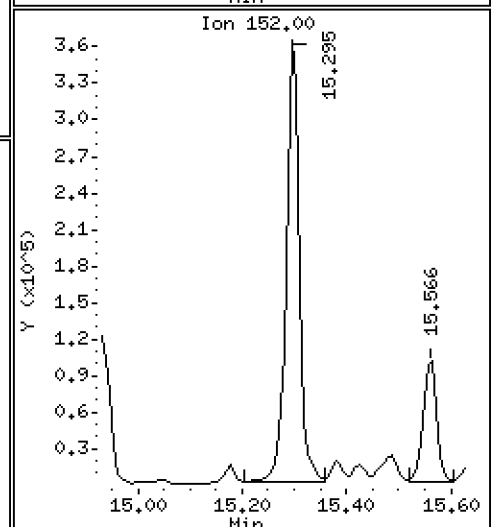
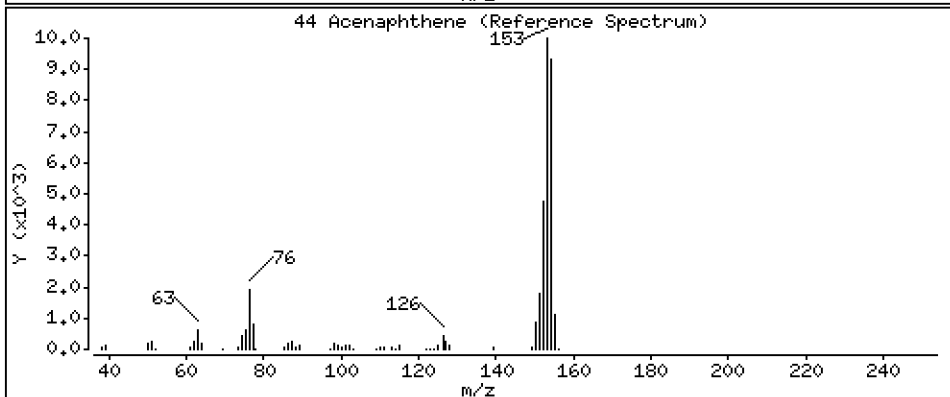
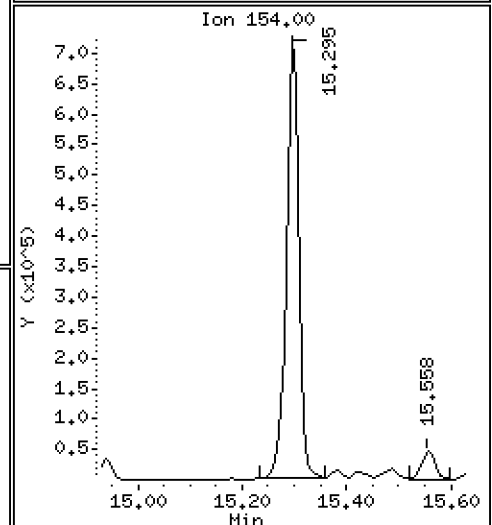
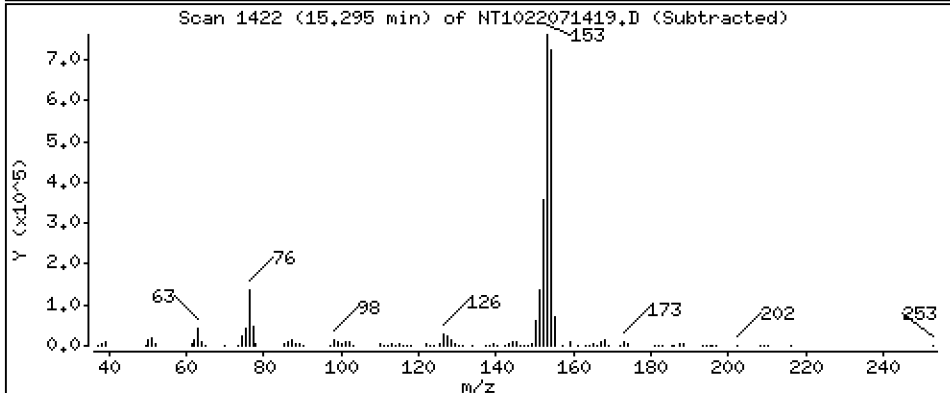
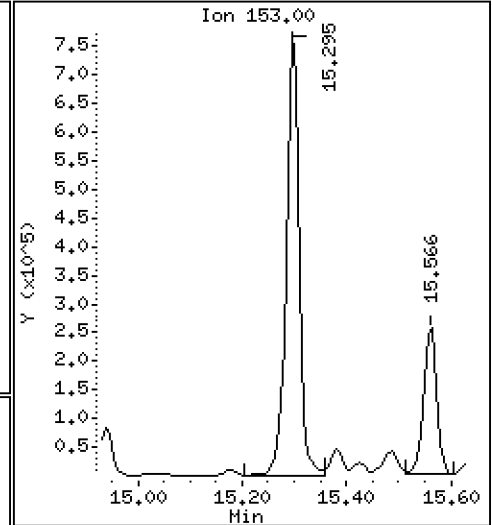
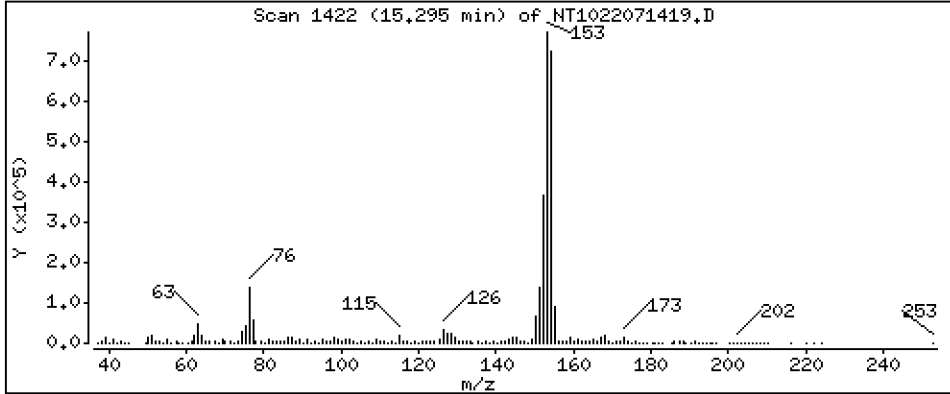
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 16,97 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

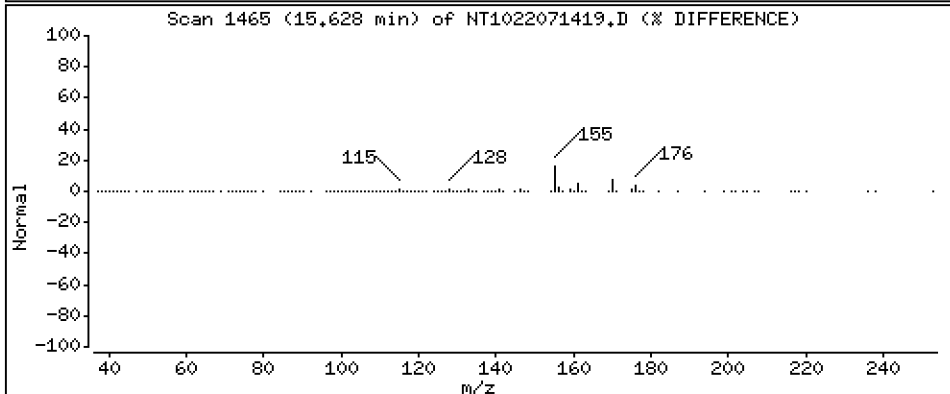
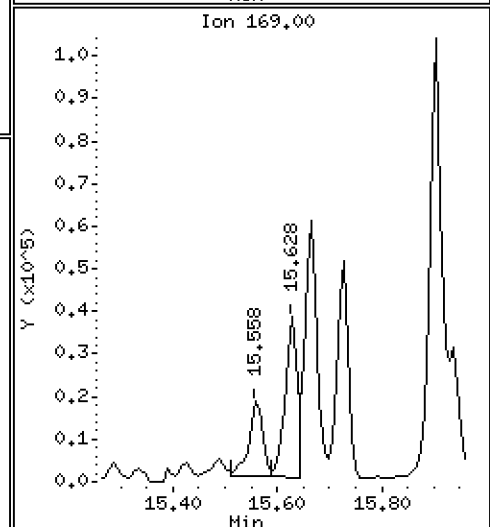
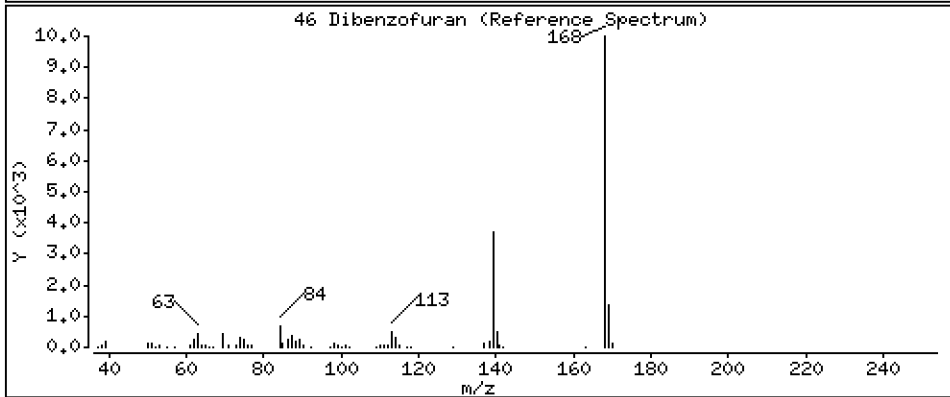
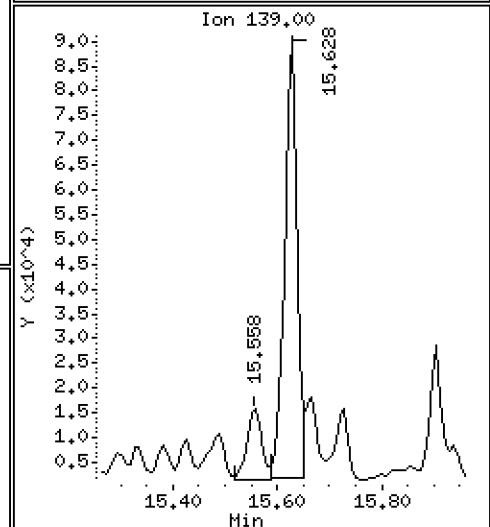
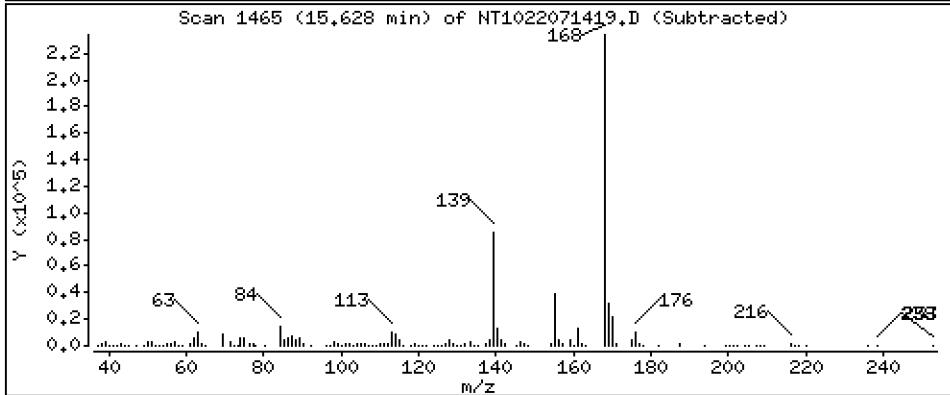
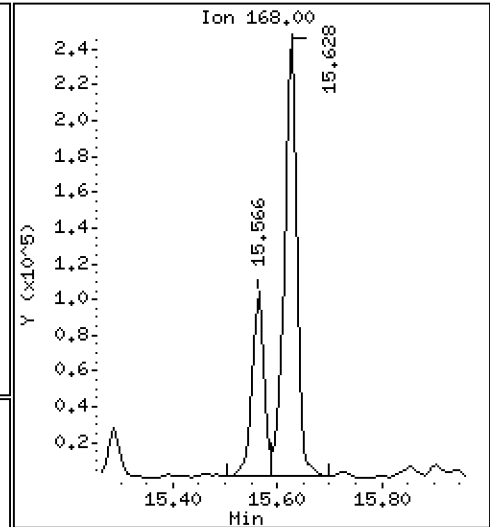
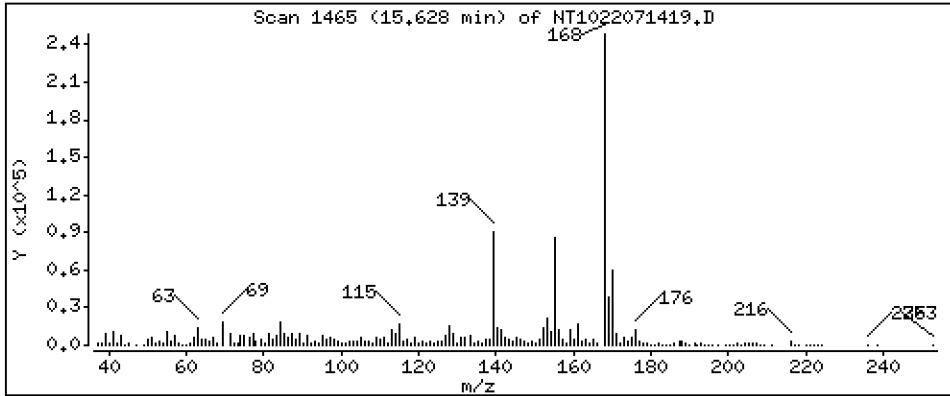
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 3,307 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 2200019-11

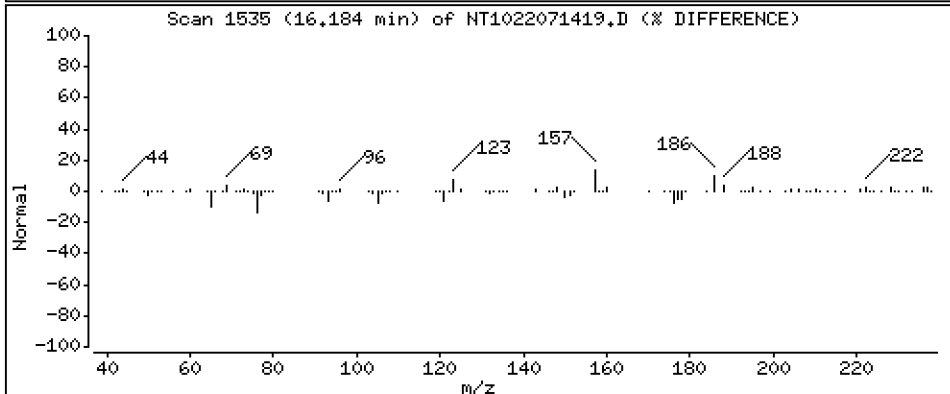
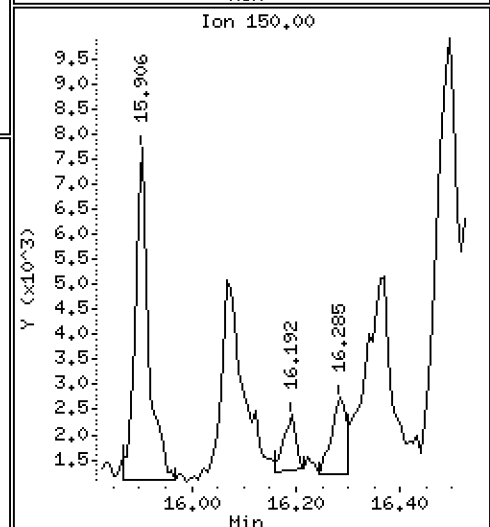
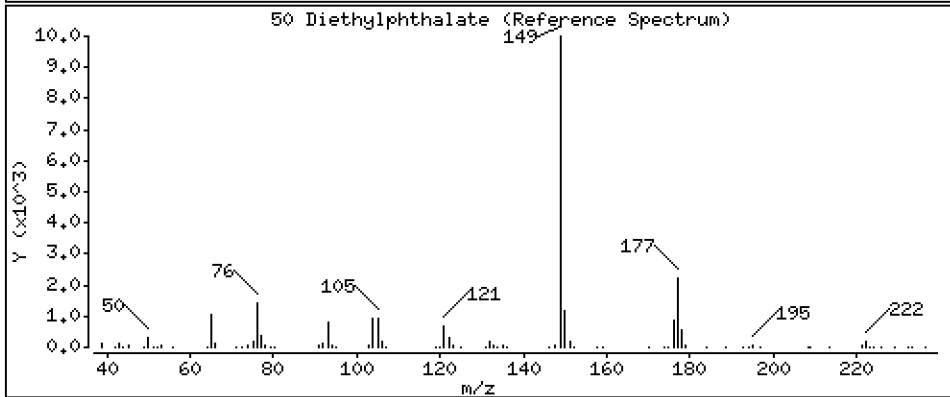
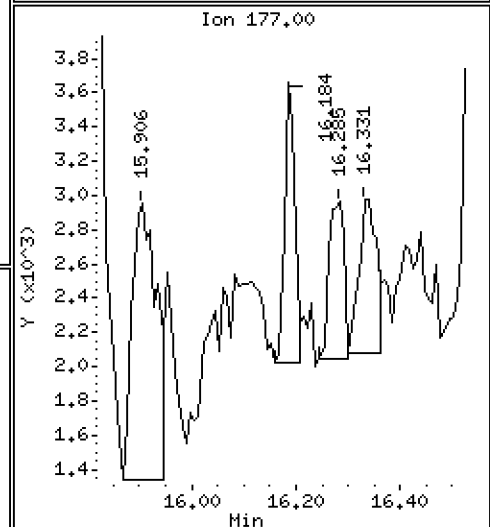
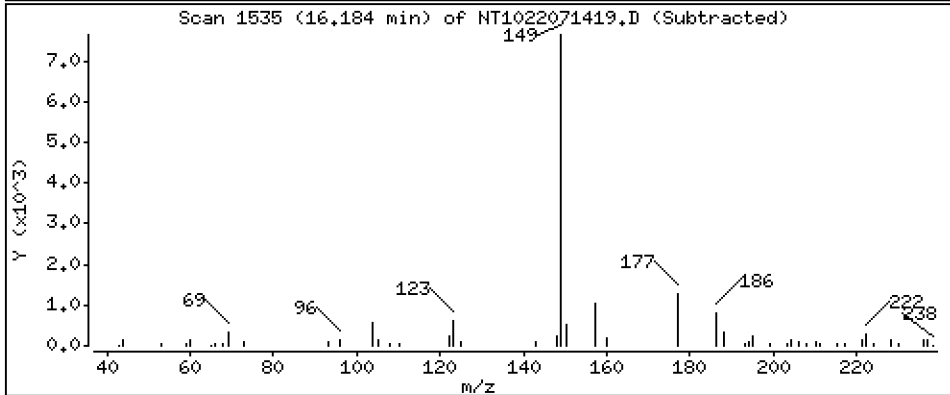
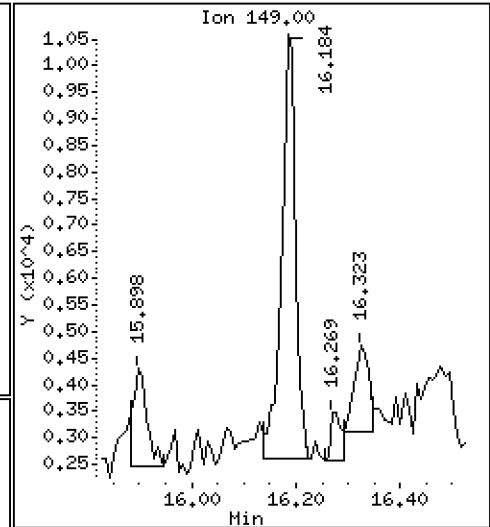
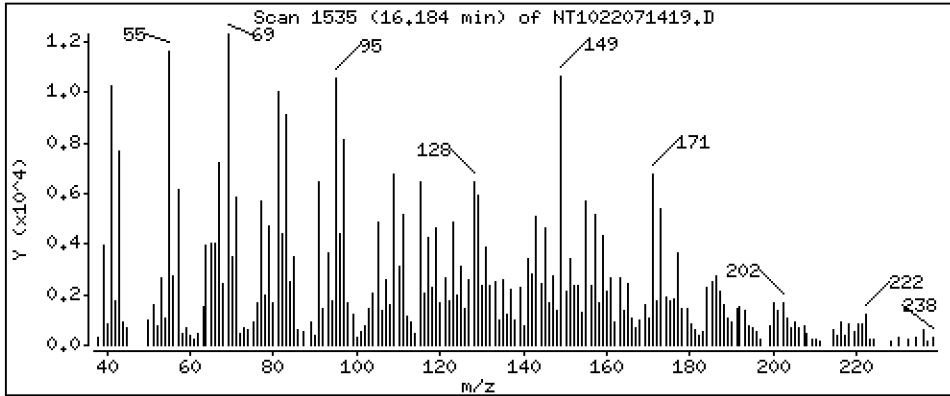
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.1815 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

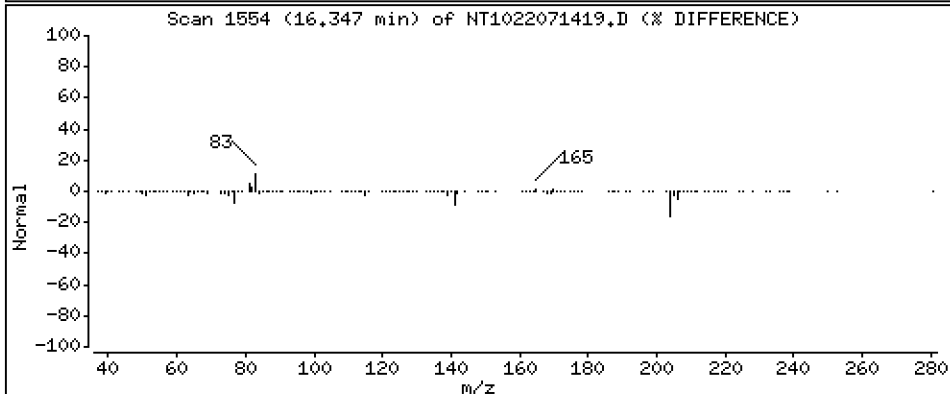
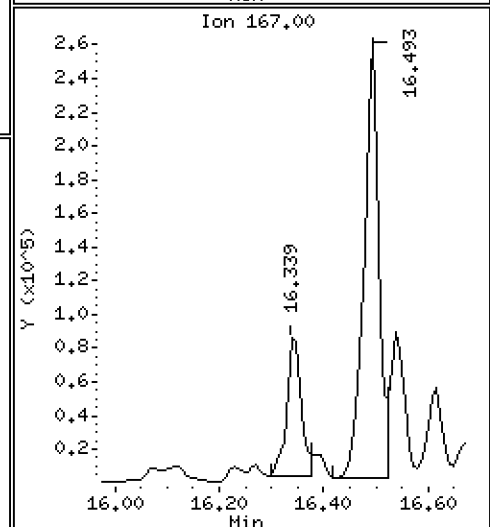
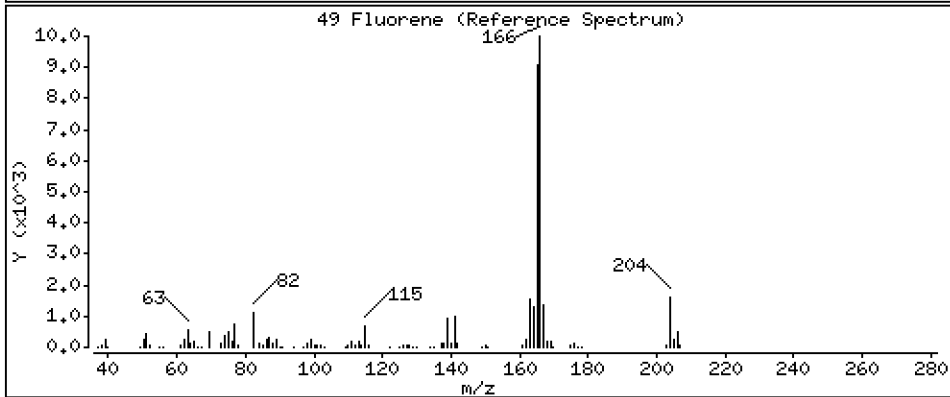
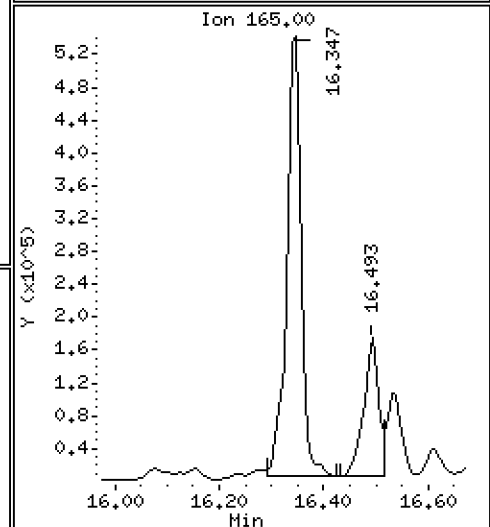
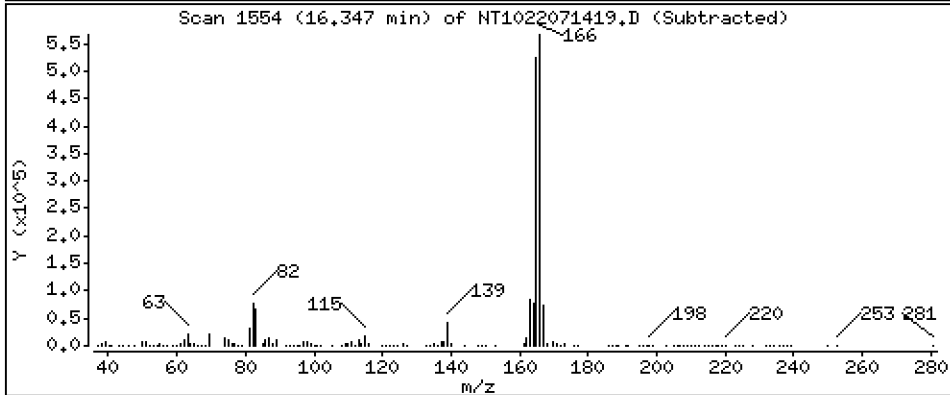
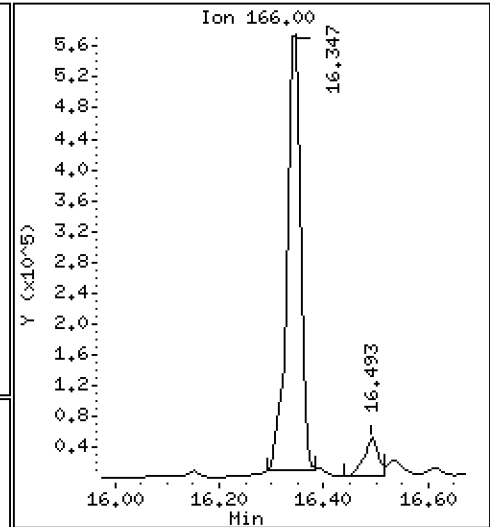
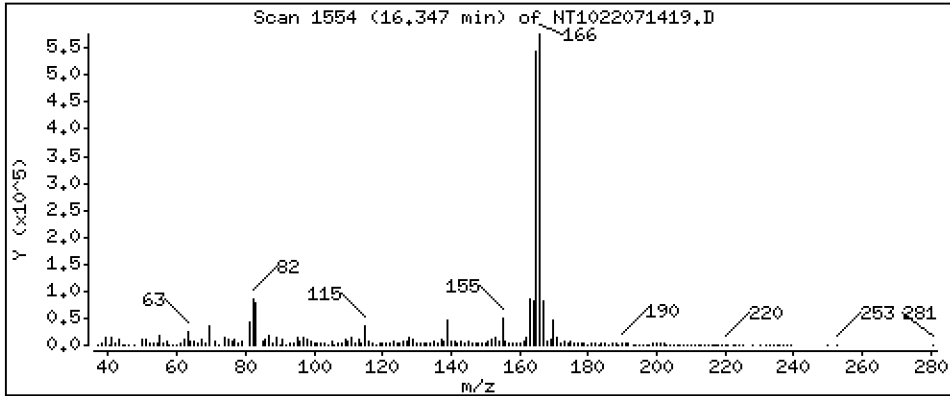
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 8,039 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

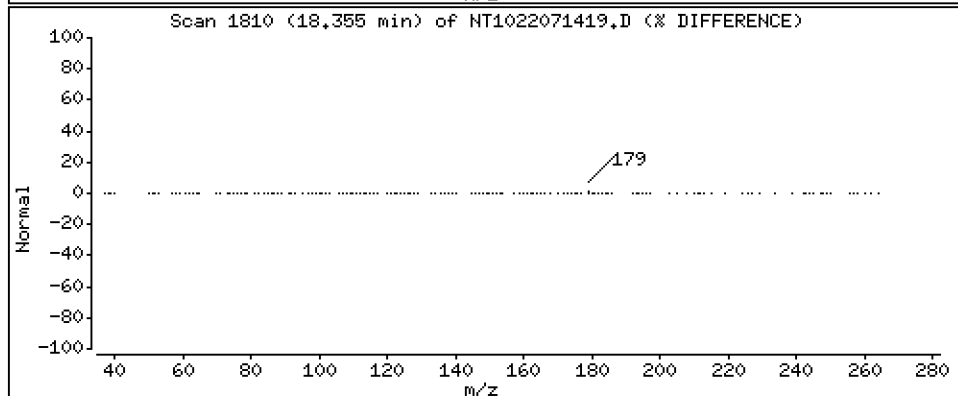
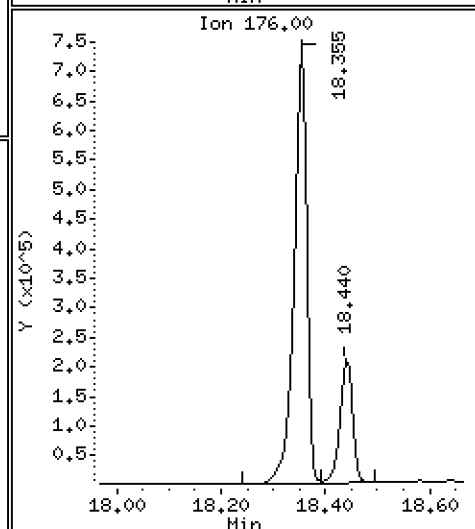
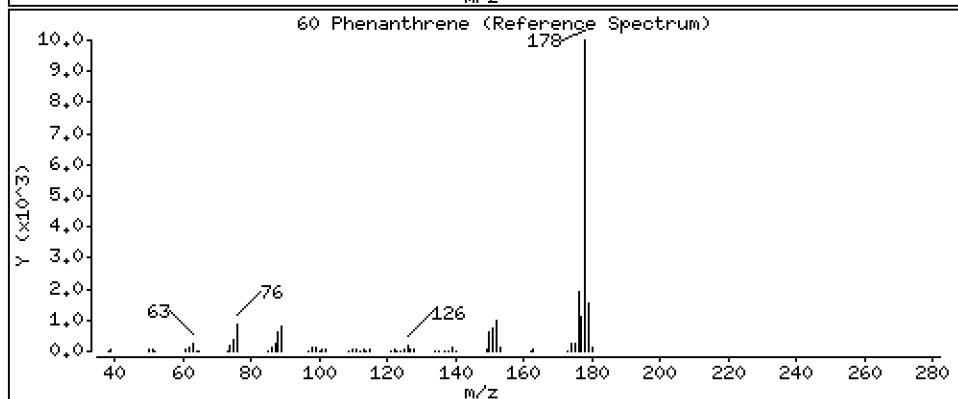
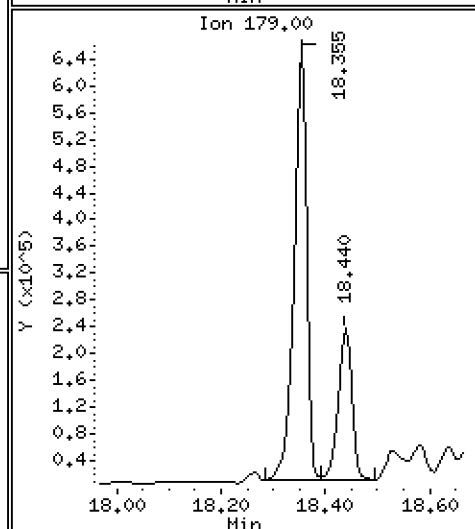
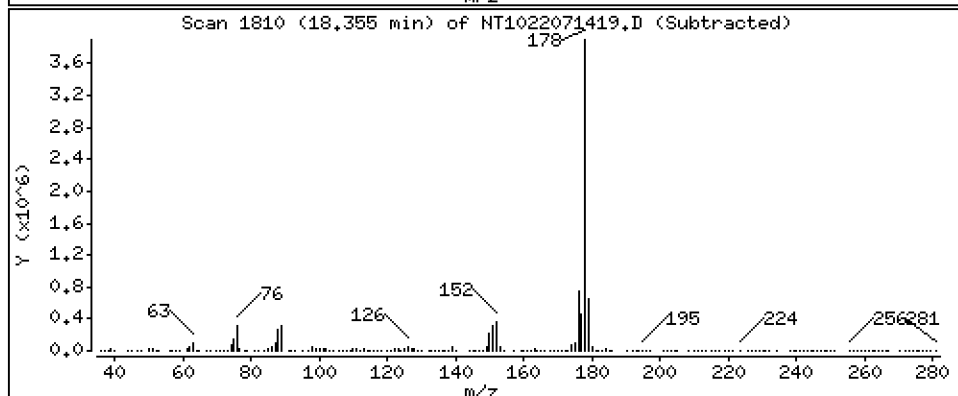
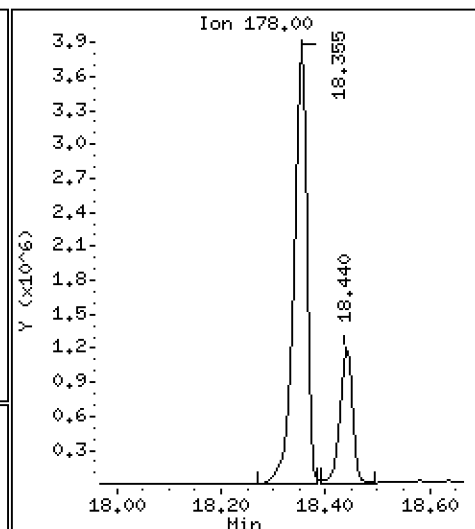
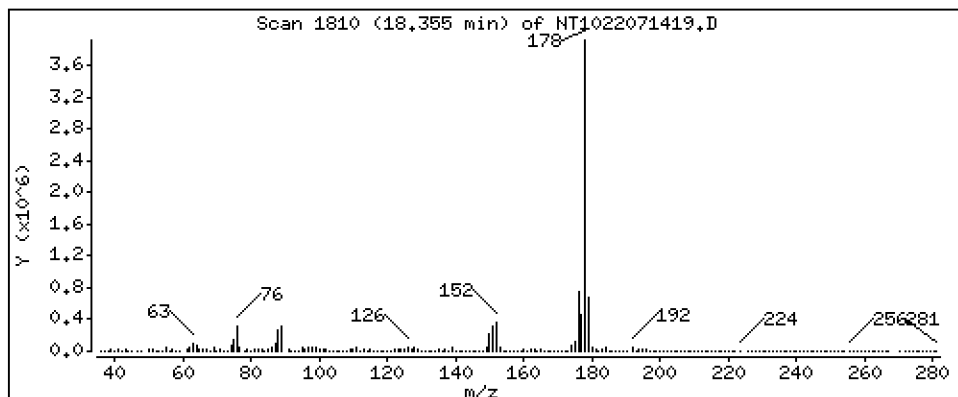
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 54,15 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

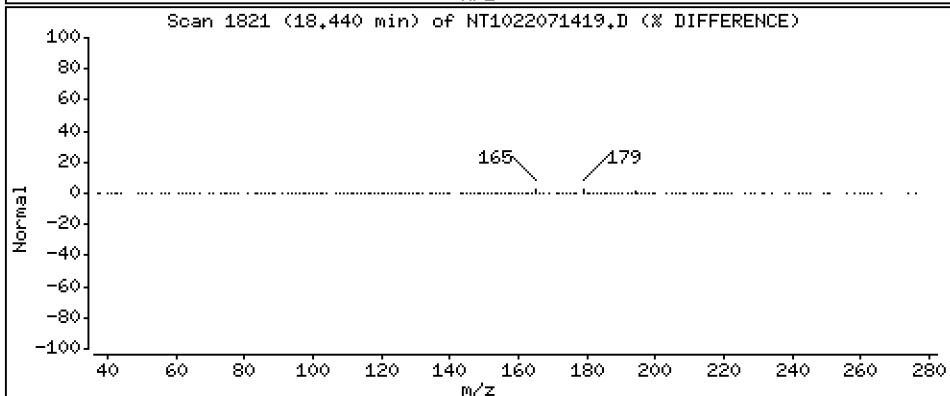
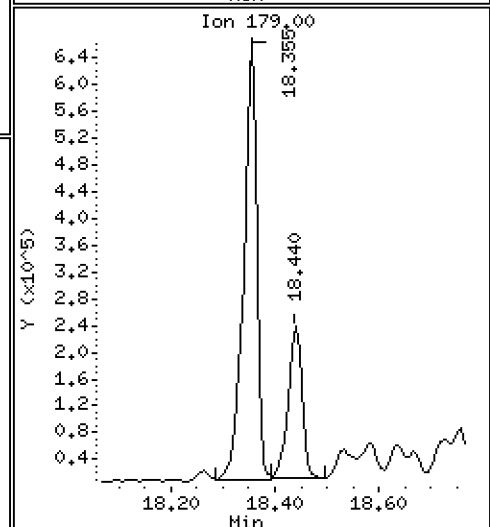
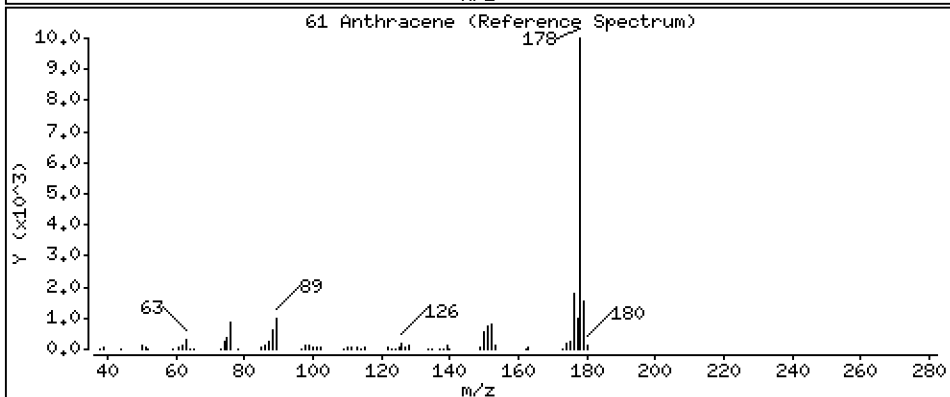
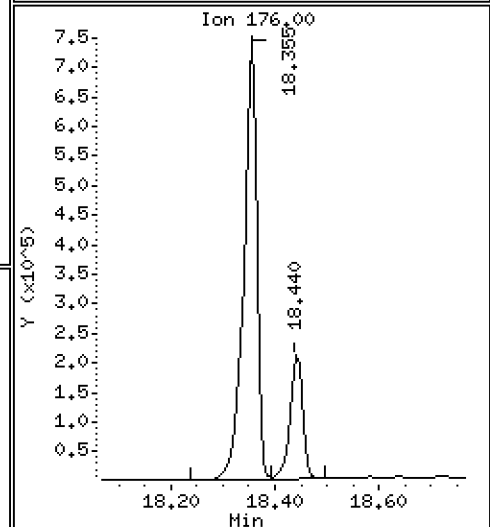
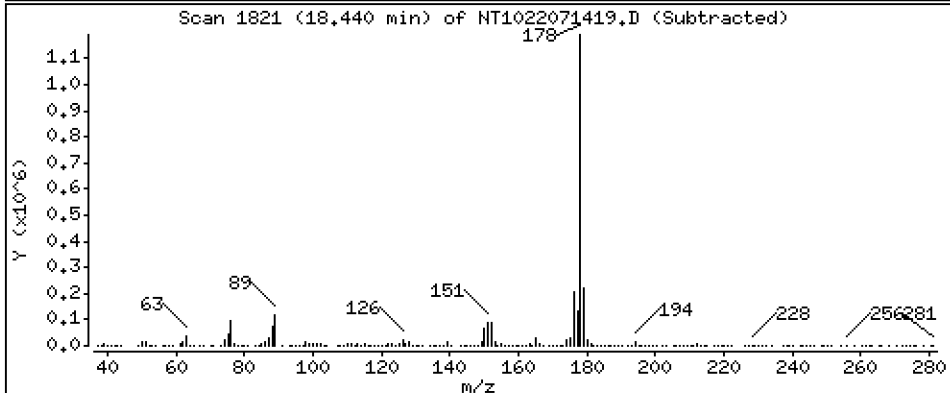
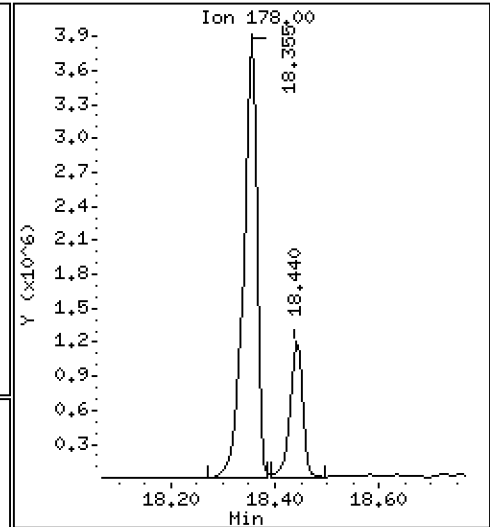
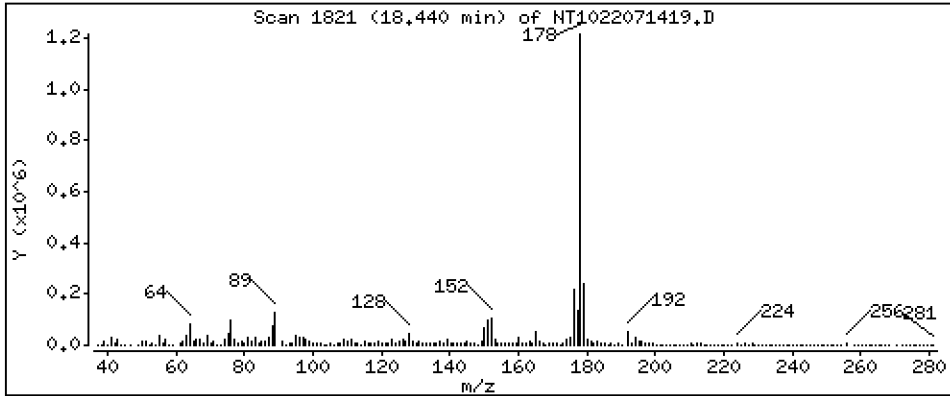
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 15,25 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

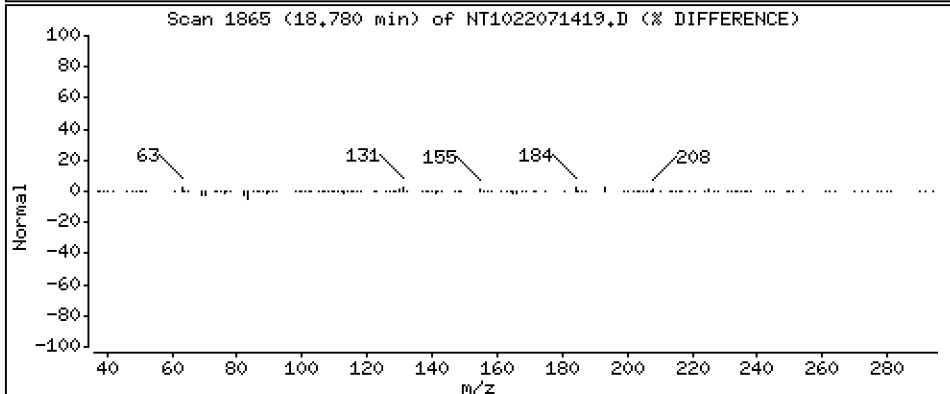
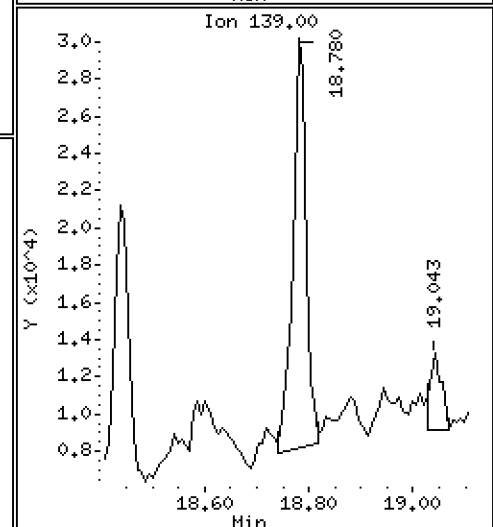
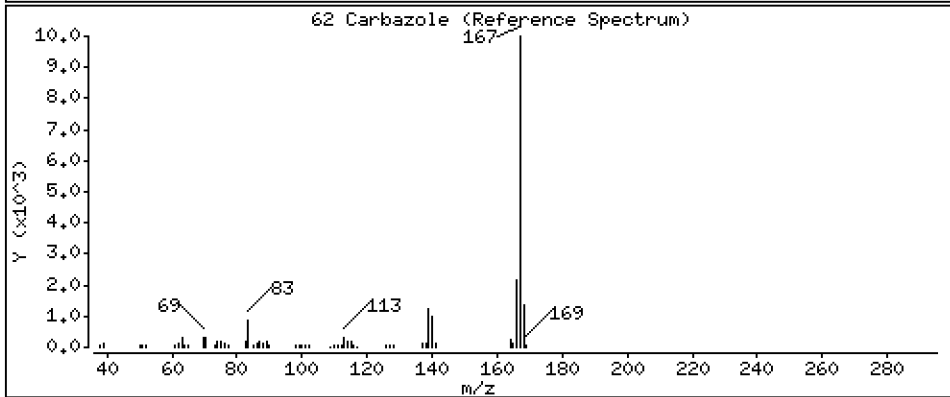
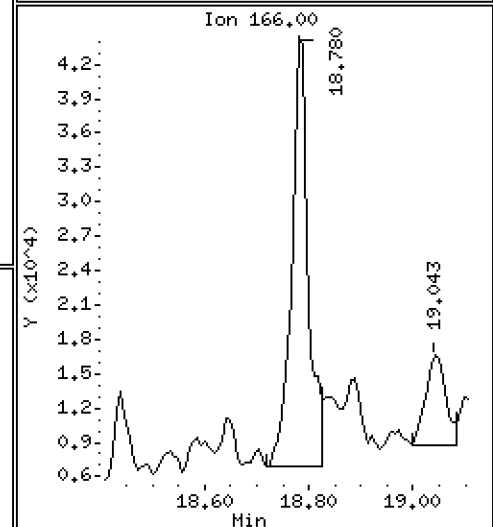
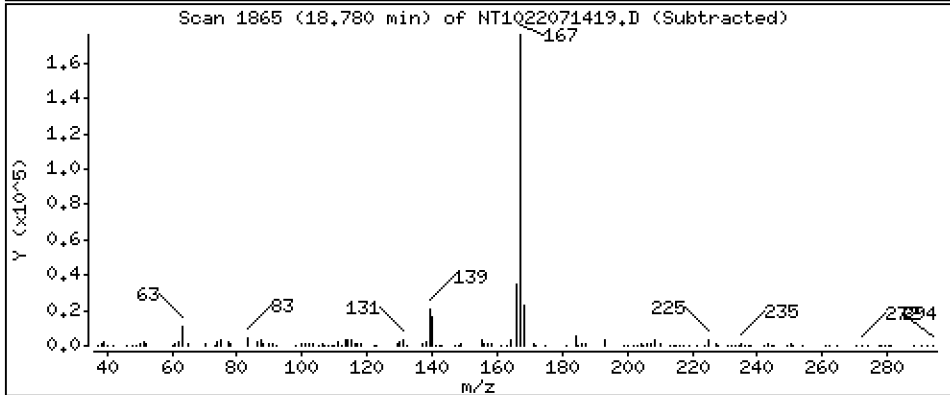
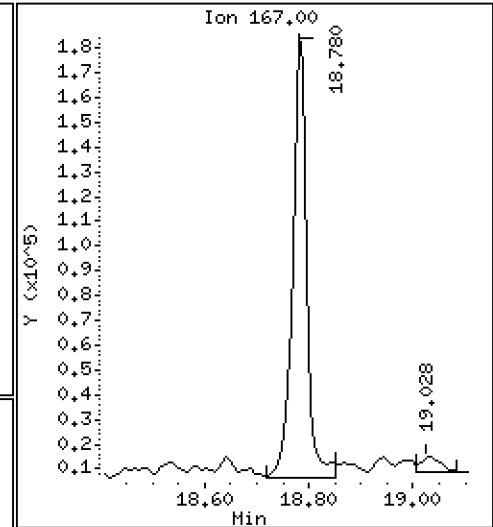
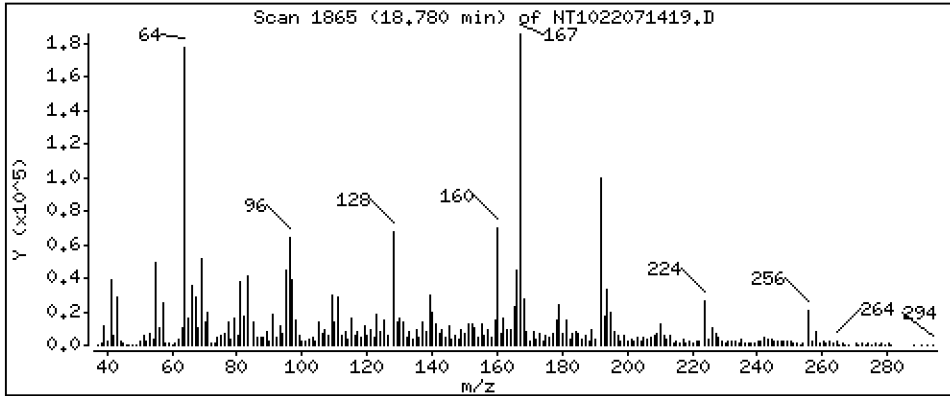
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 2,689 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

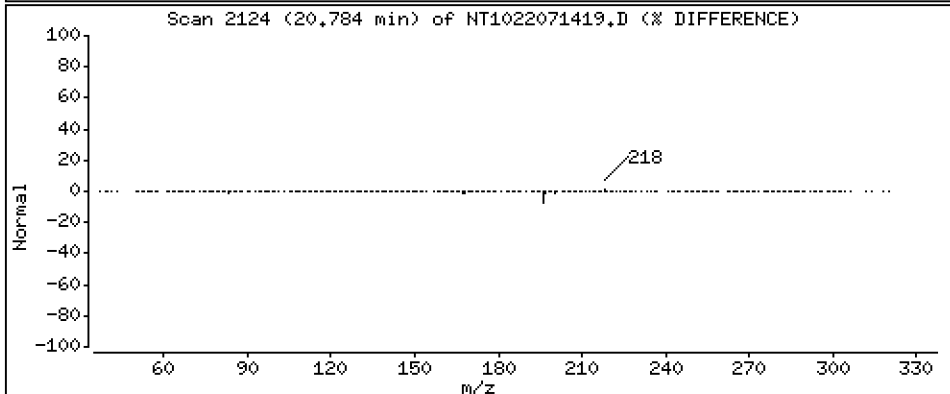
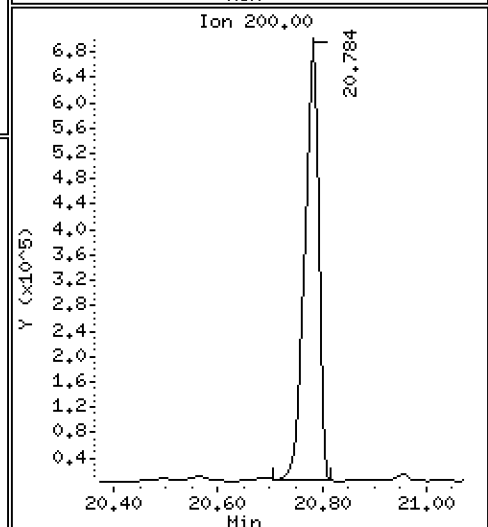
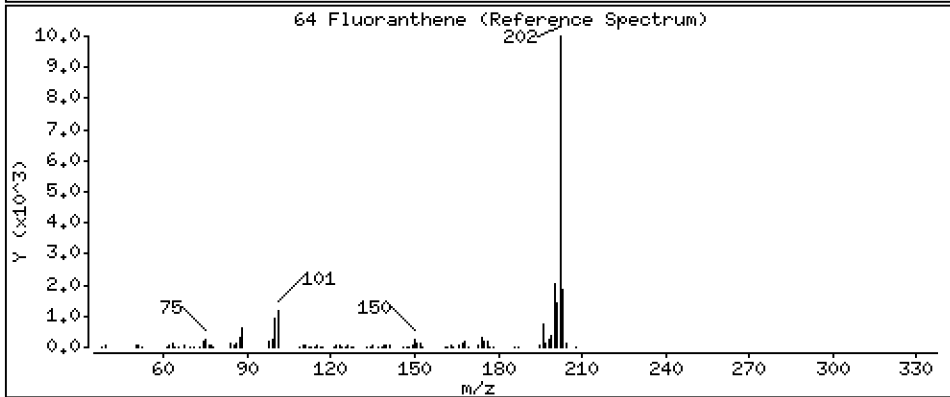
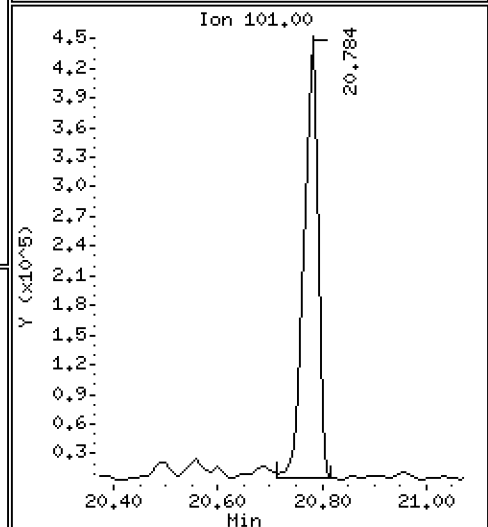
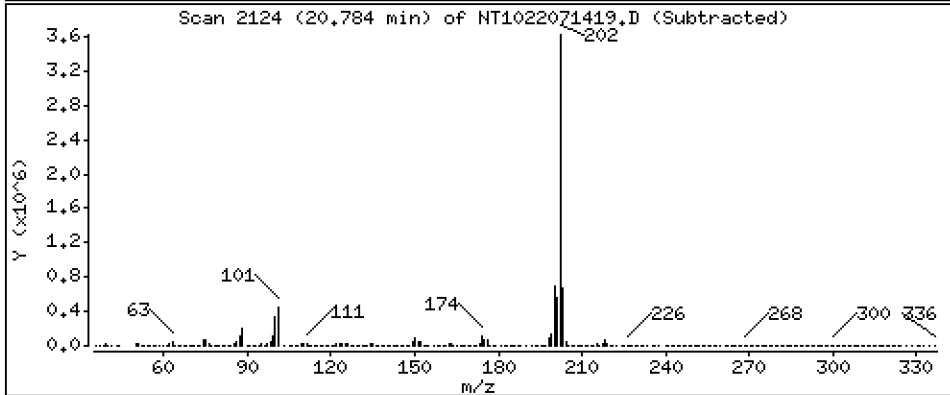
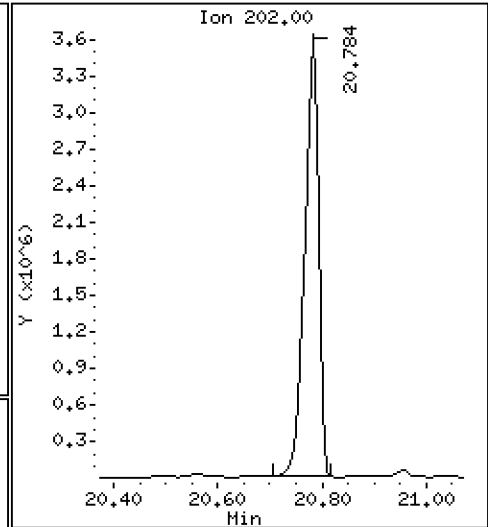
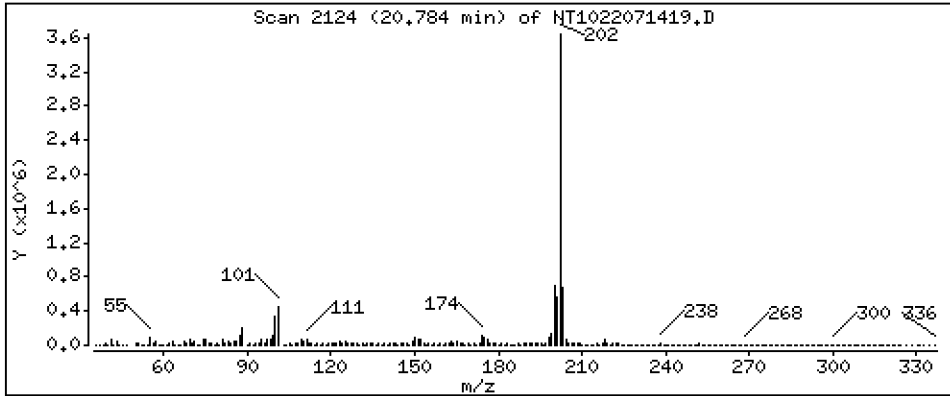
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 28,67 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

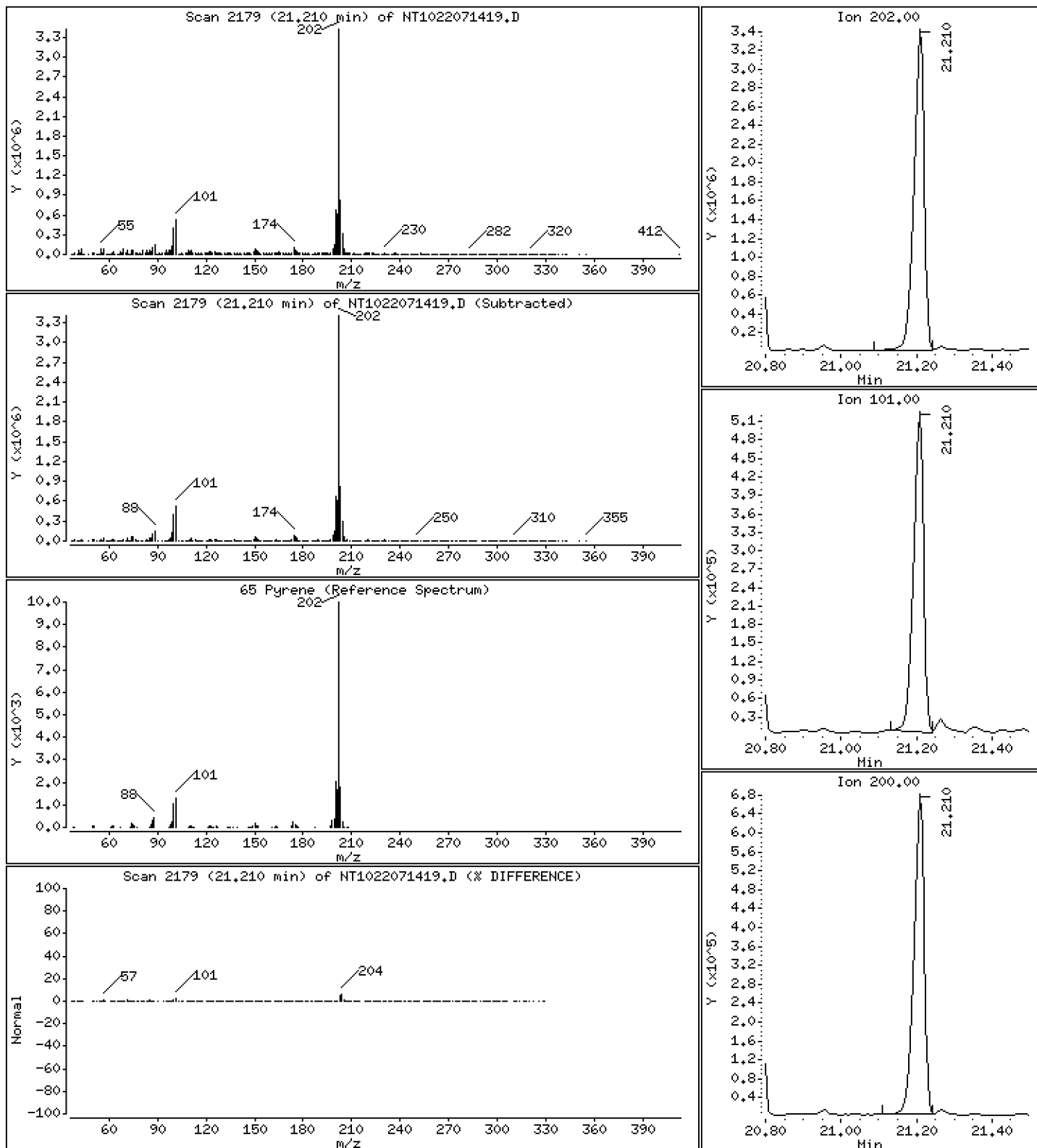
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 28,78 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

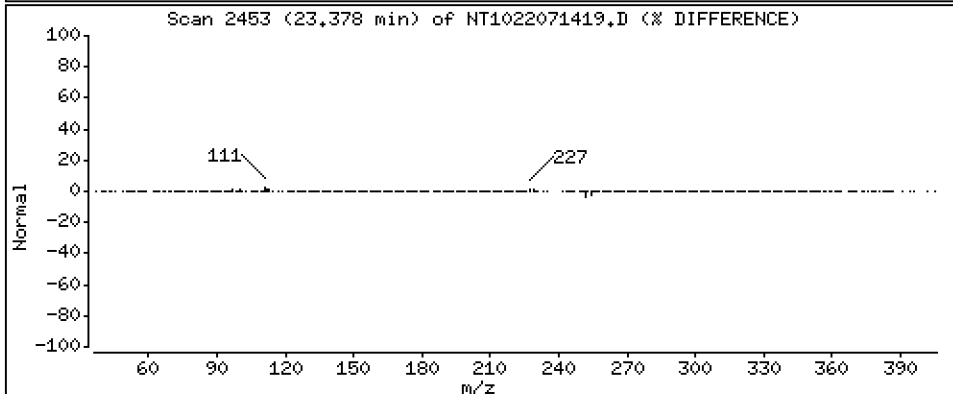
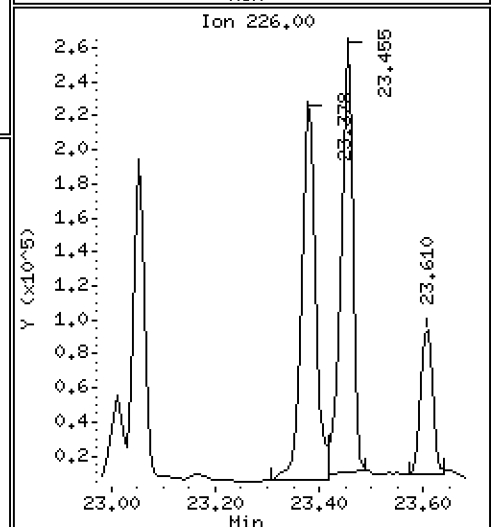
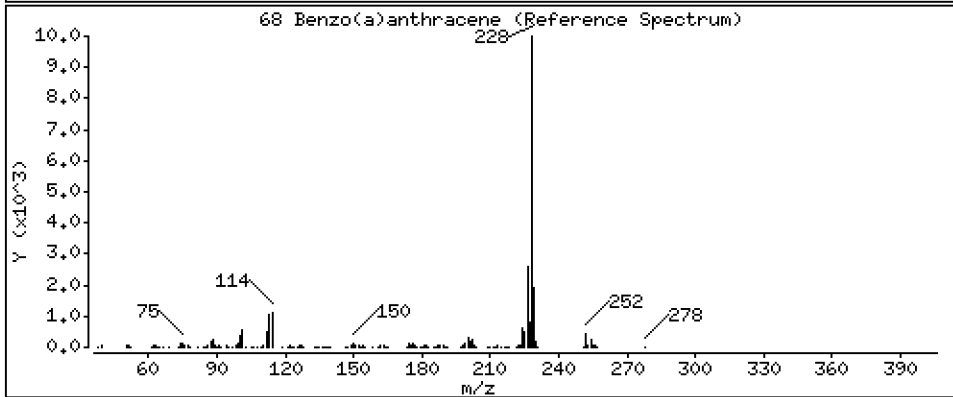
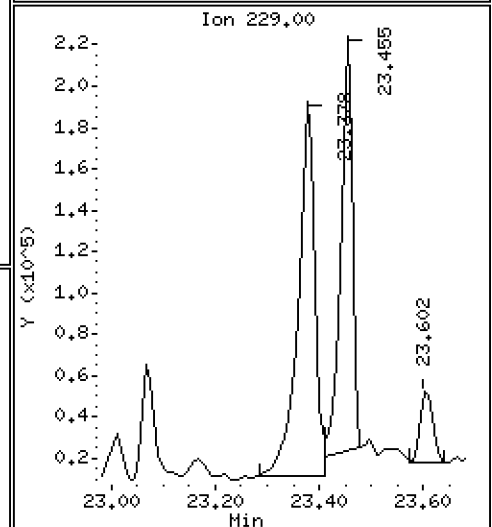
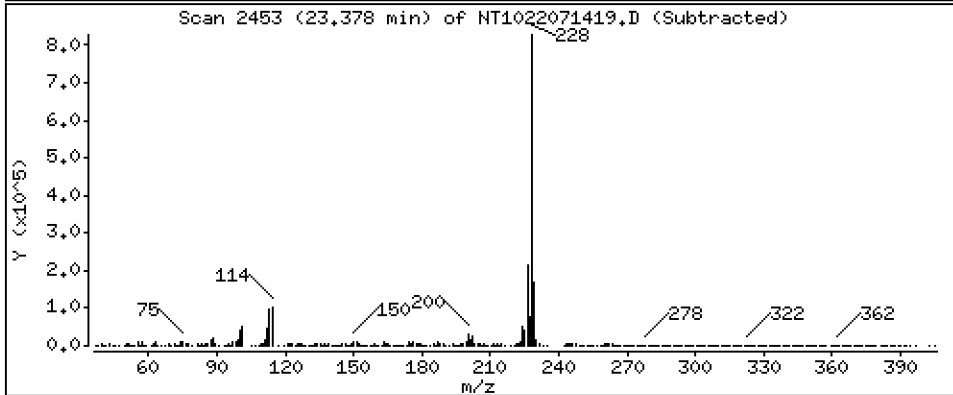
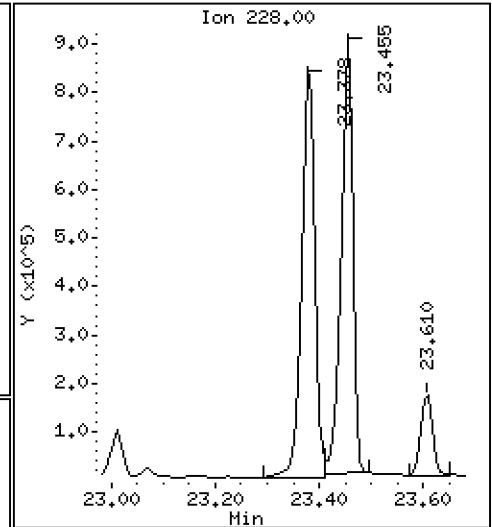
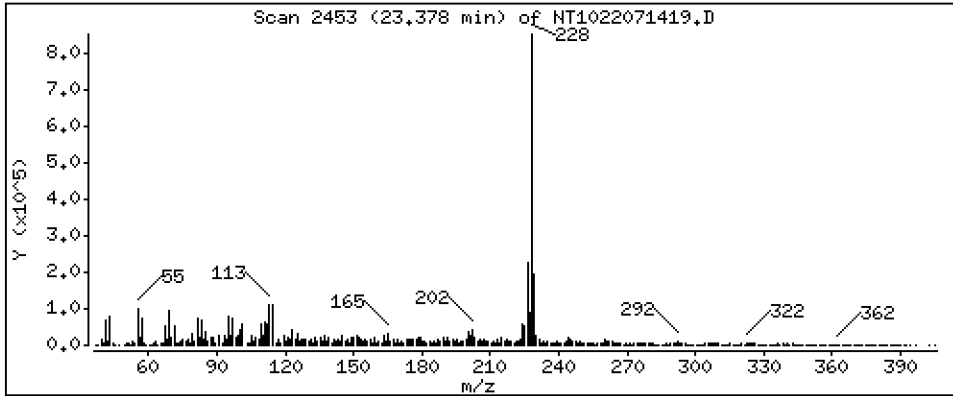
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 15,74 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 2200019-11

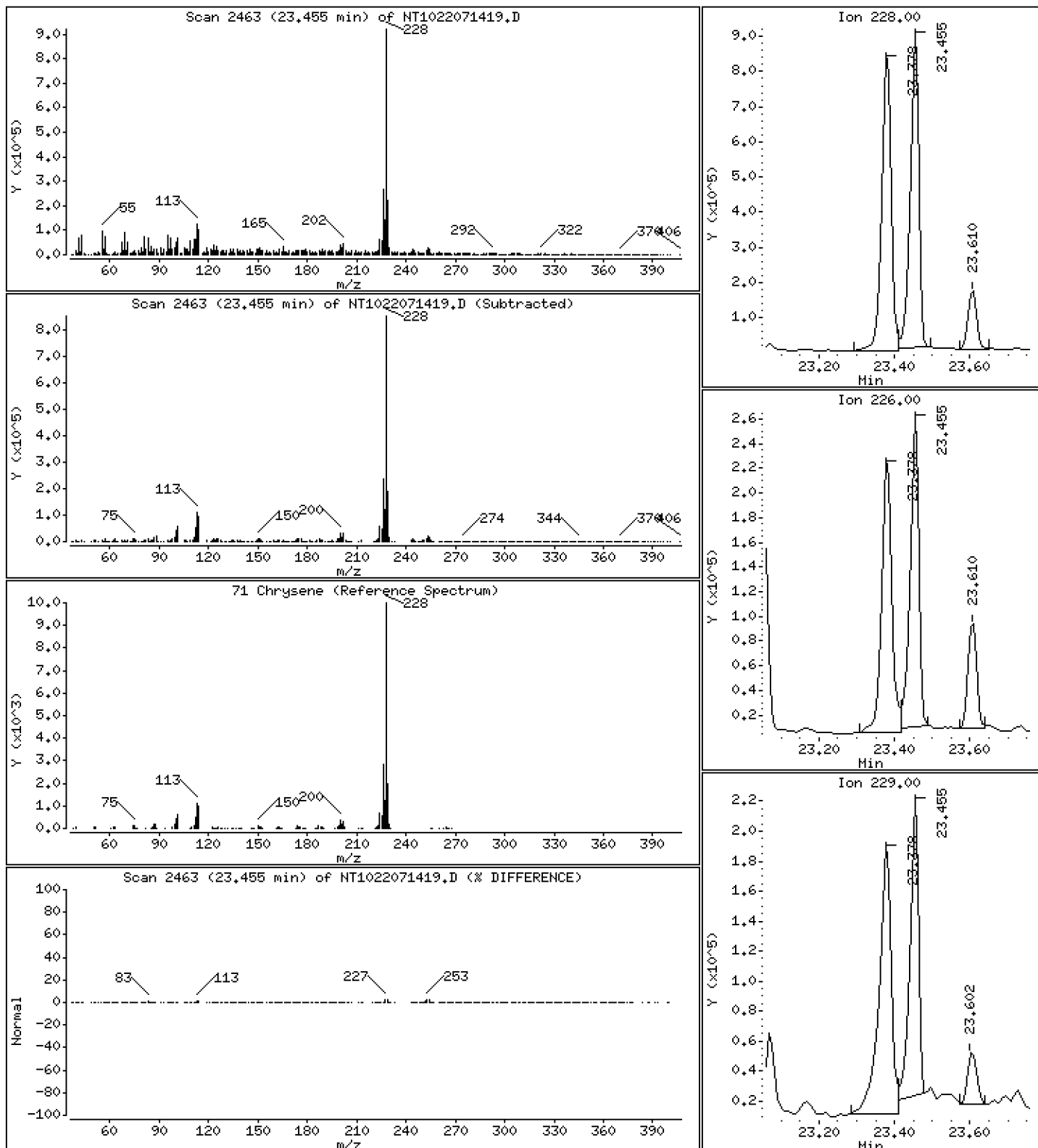
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 17,55 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 2200019-11

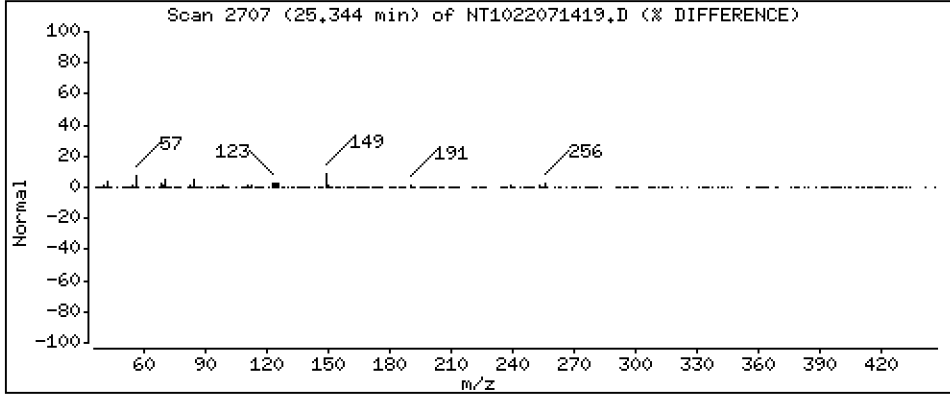
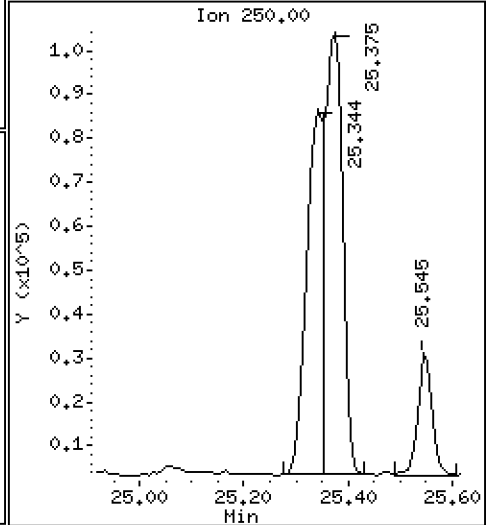
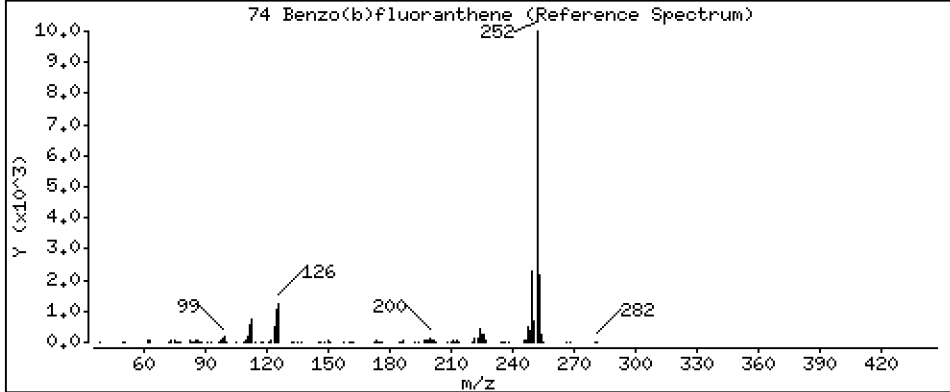
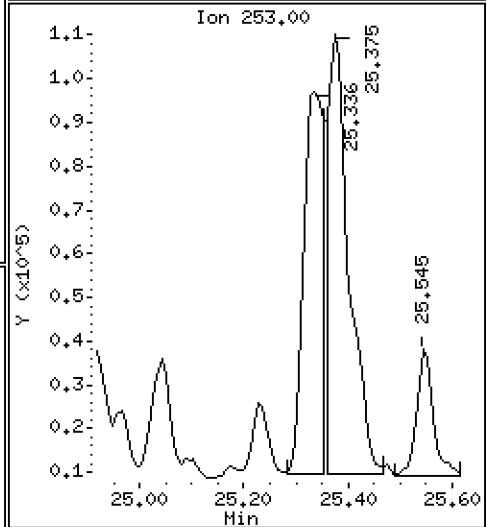
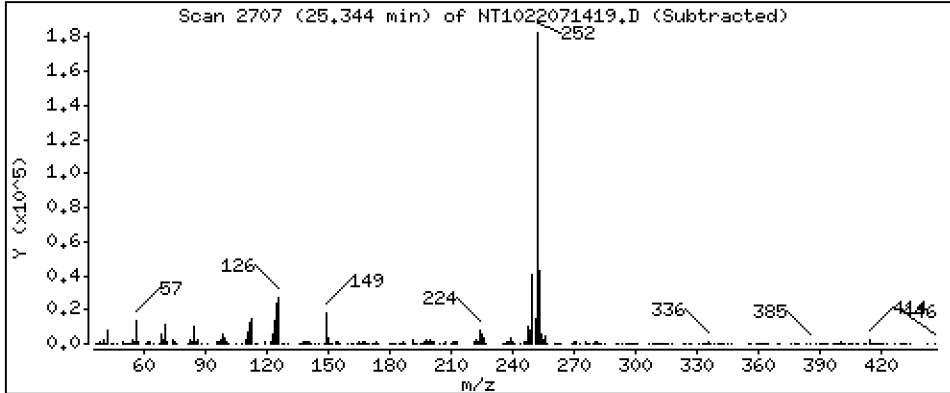
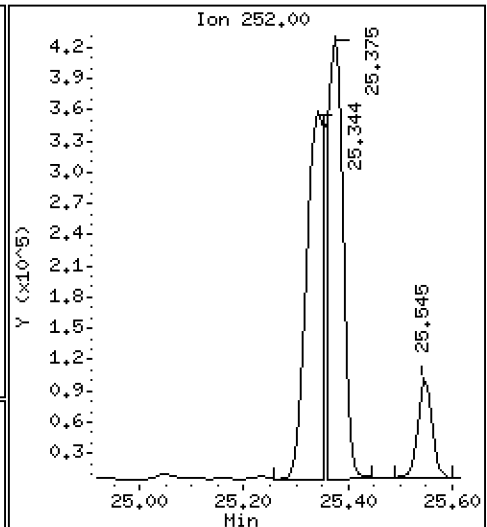
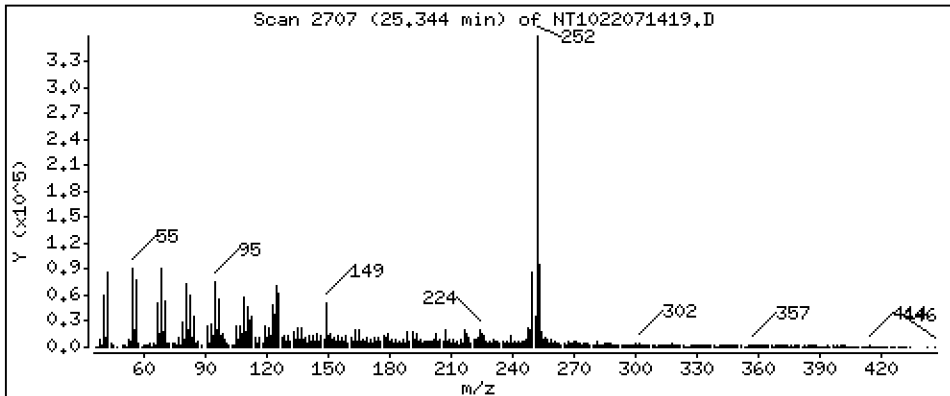
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 10,42 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

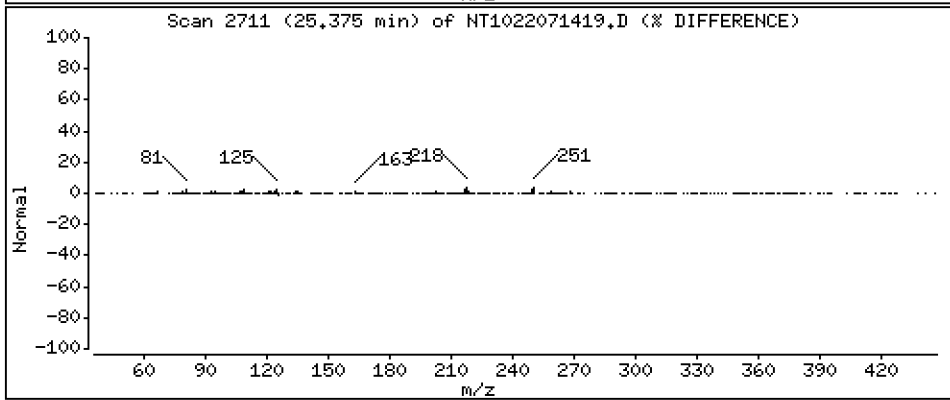
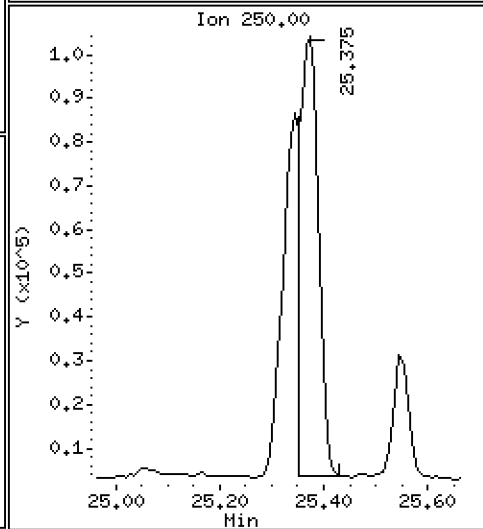
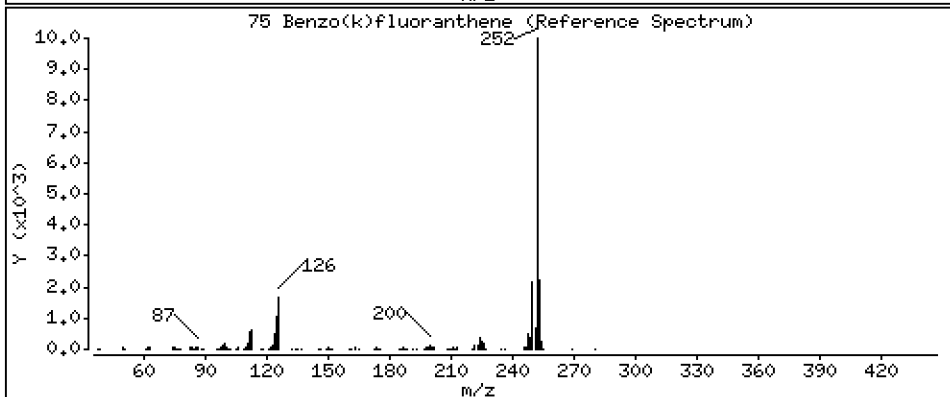
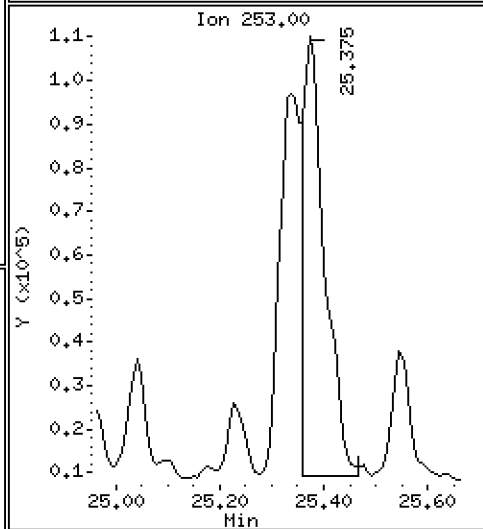
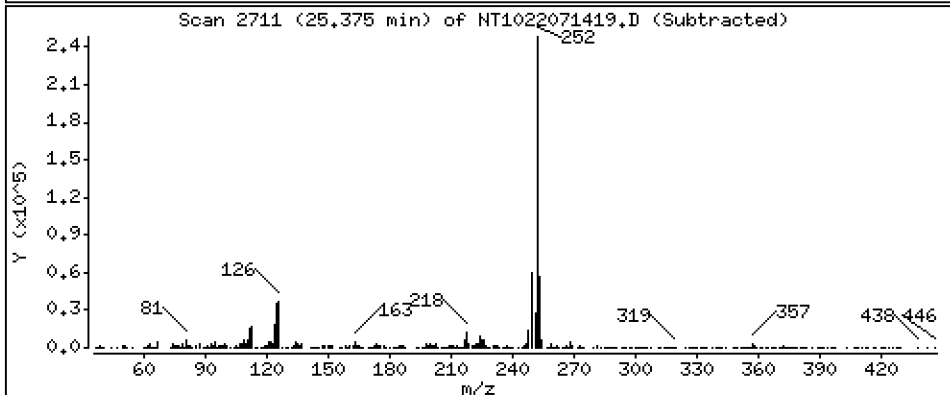
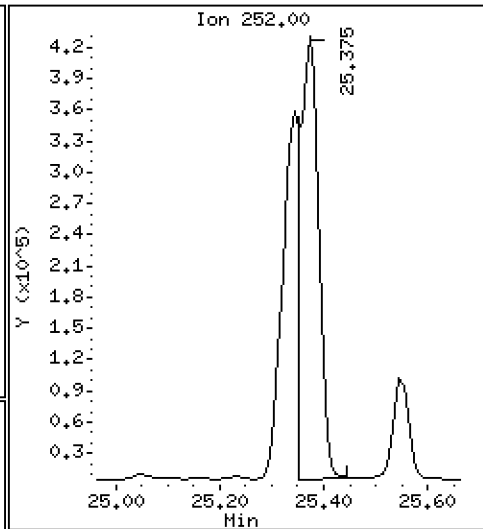
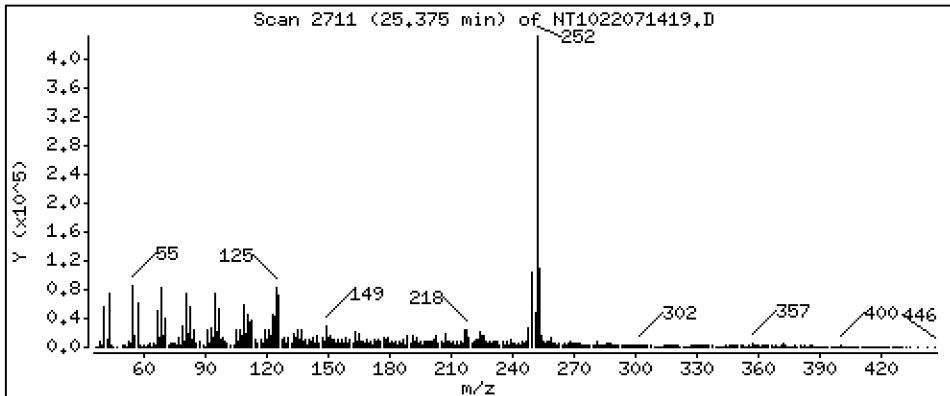
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 14,55 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 2200019-11

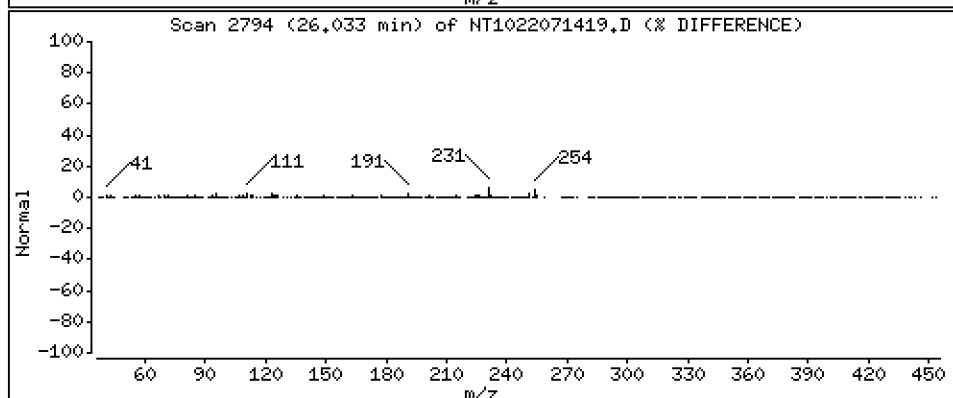
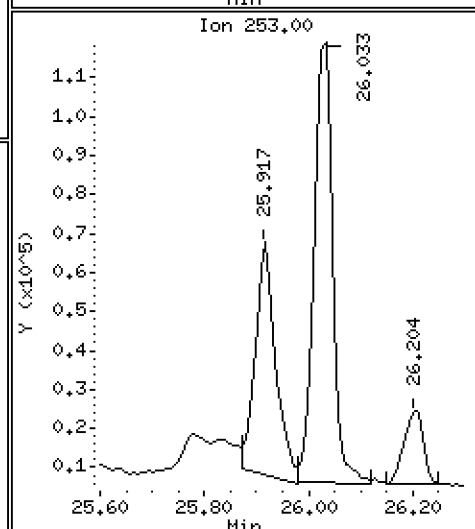
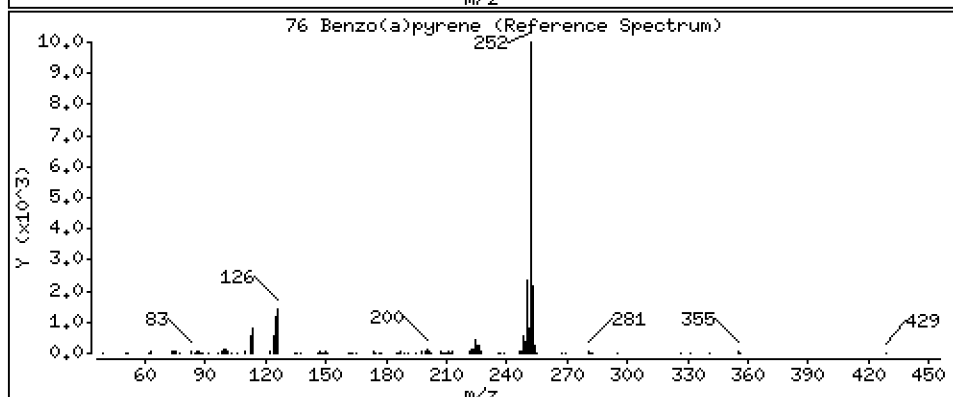
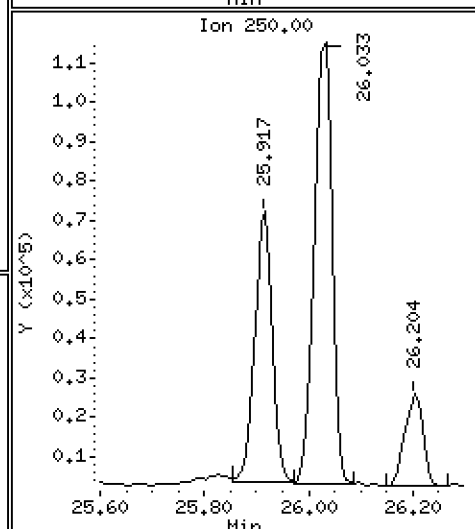
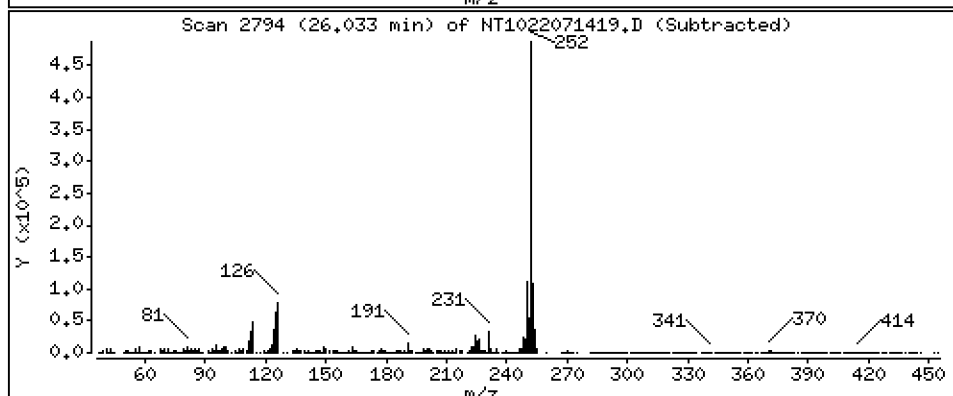
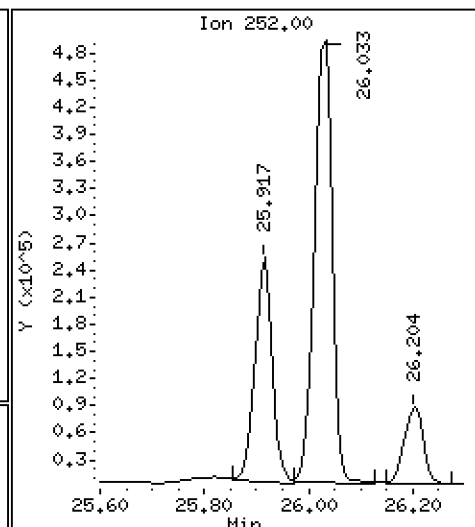
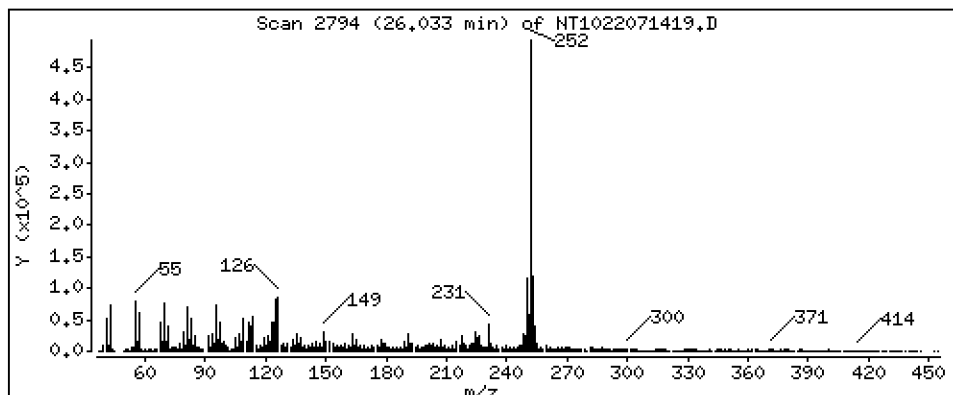
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 17,85 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

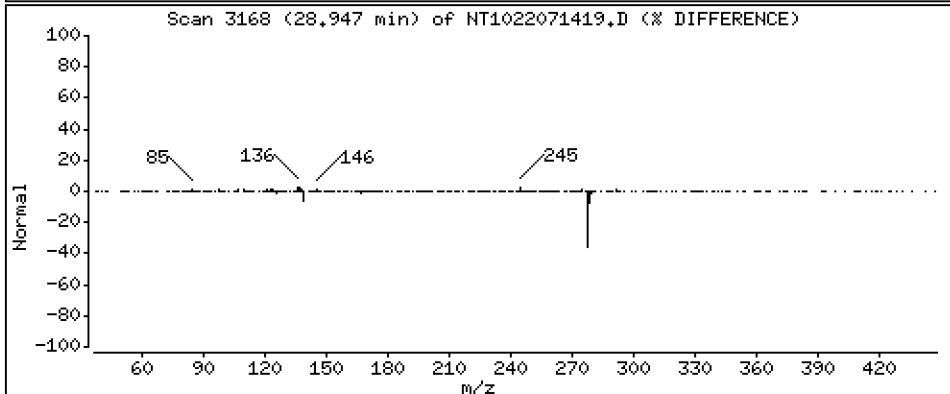
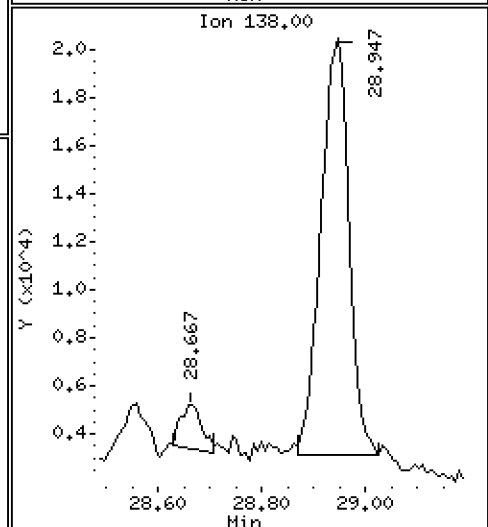
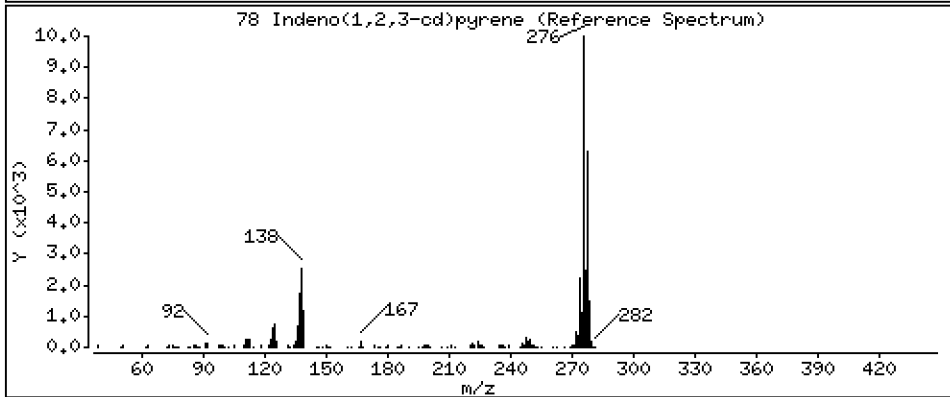
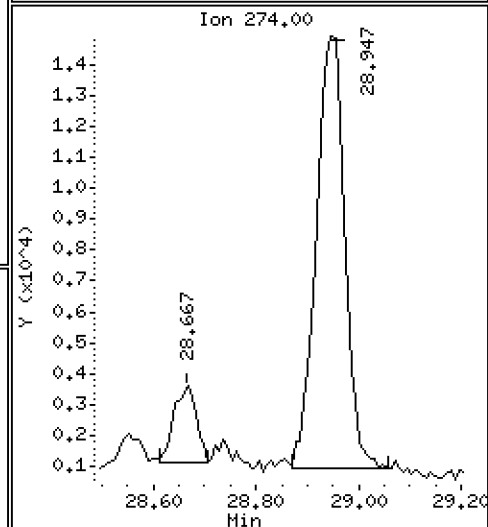
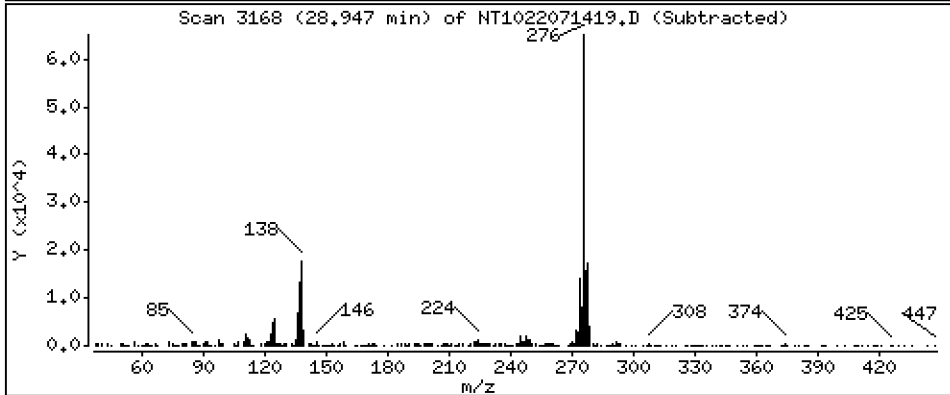
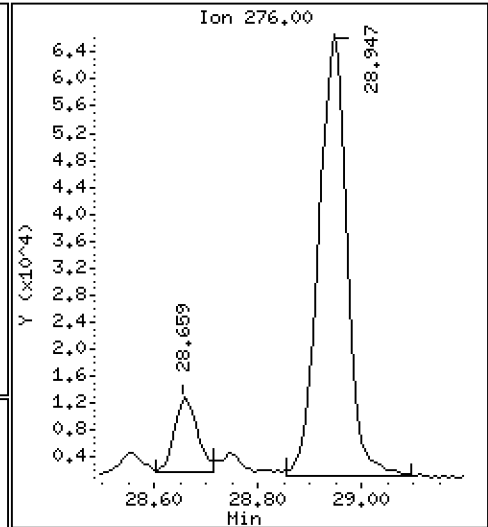
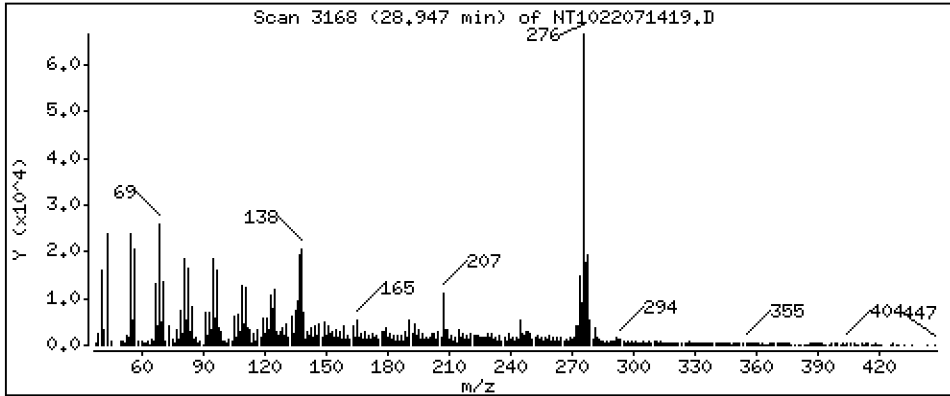
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 3,687 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 2200019-11

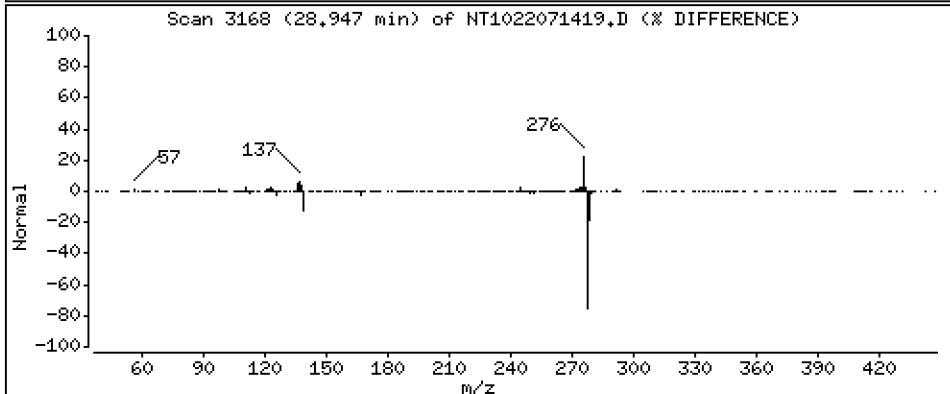
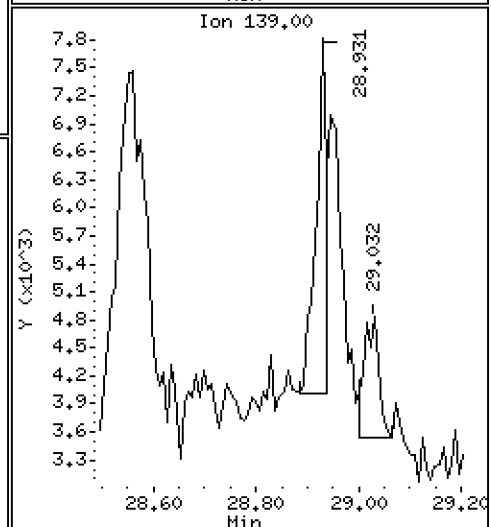
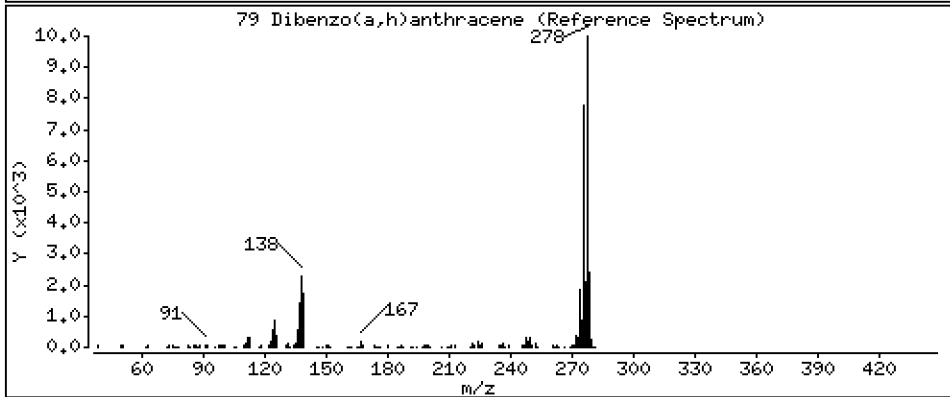
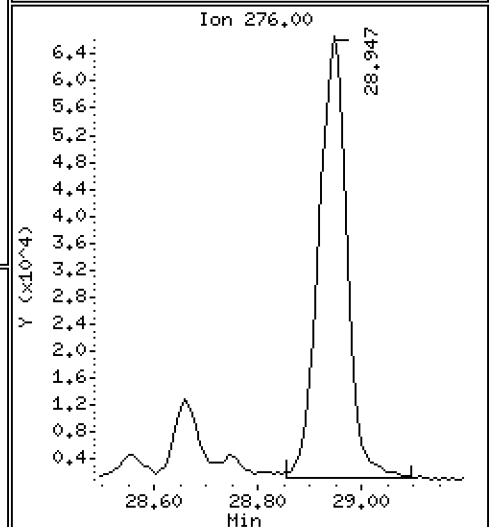
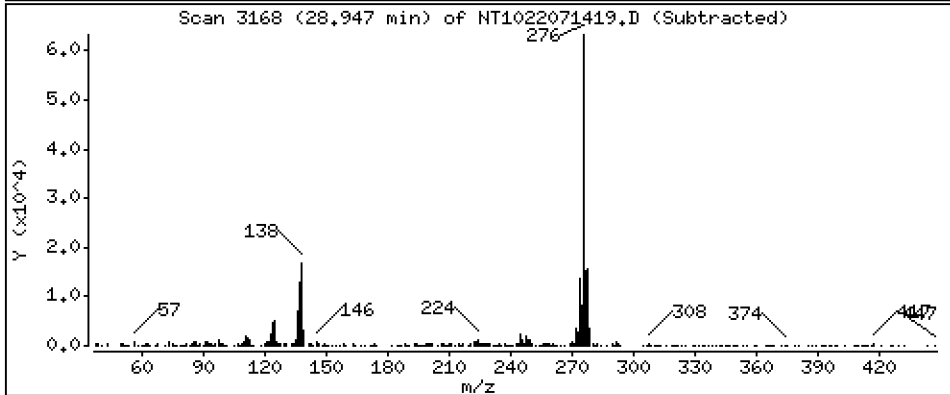
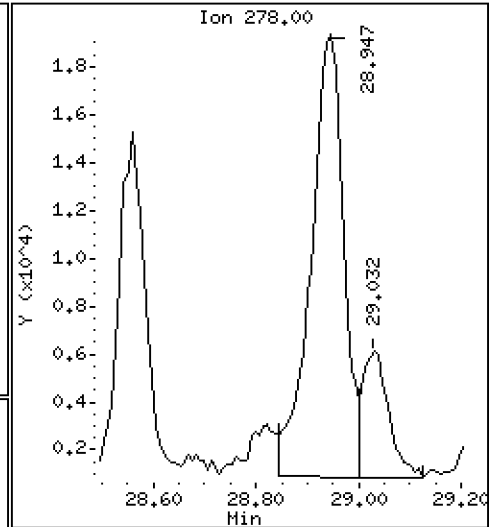
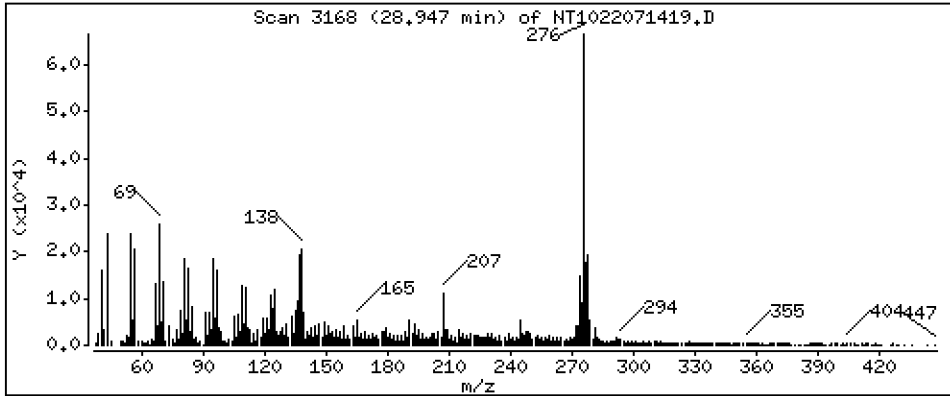
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 1,576 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

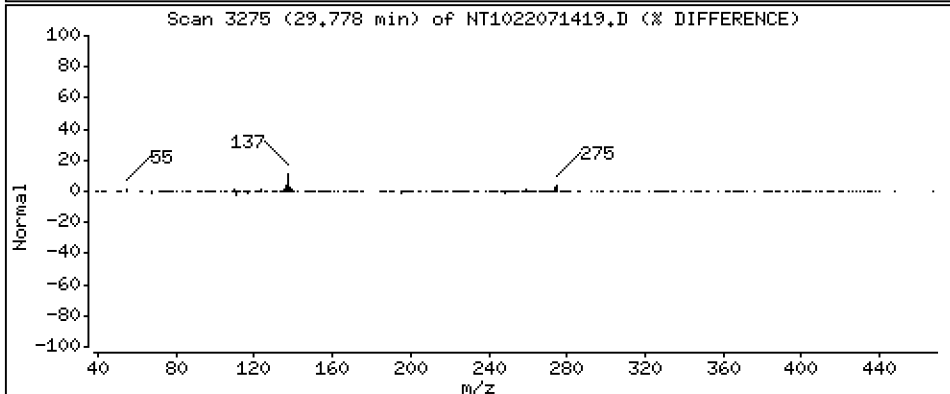
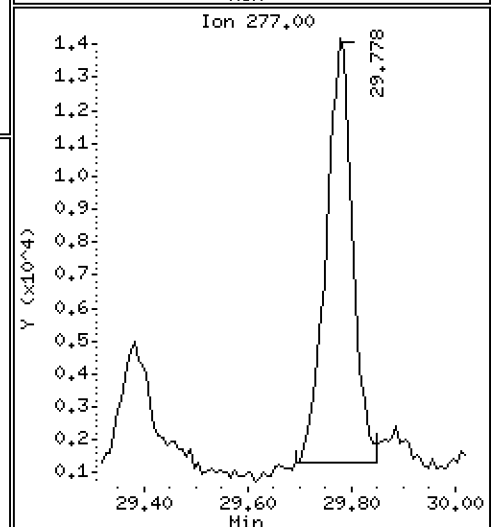
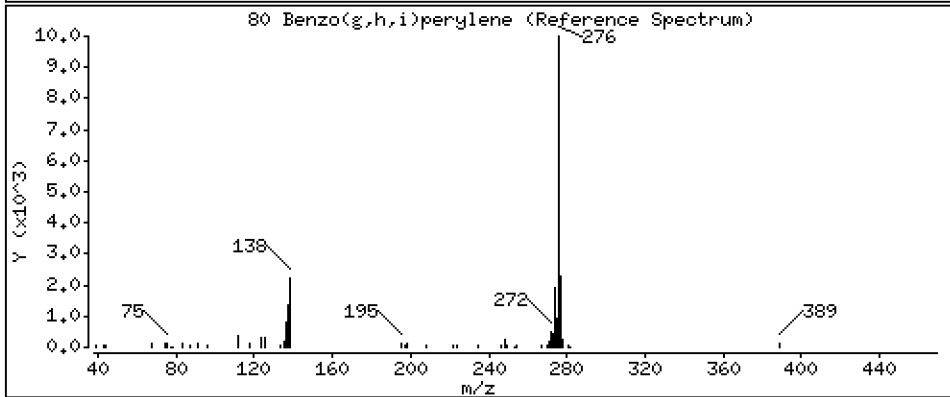
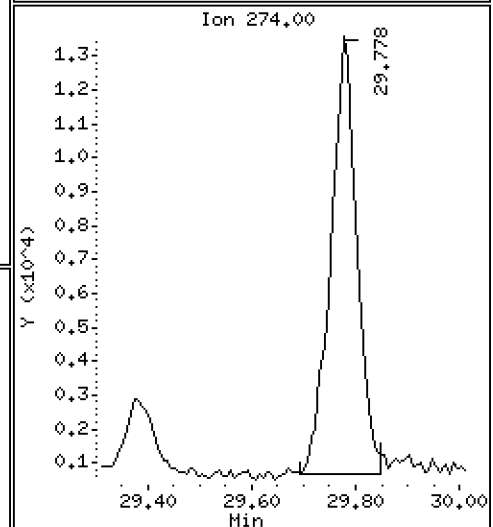
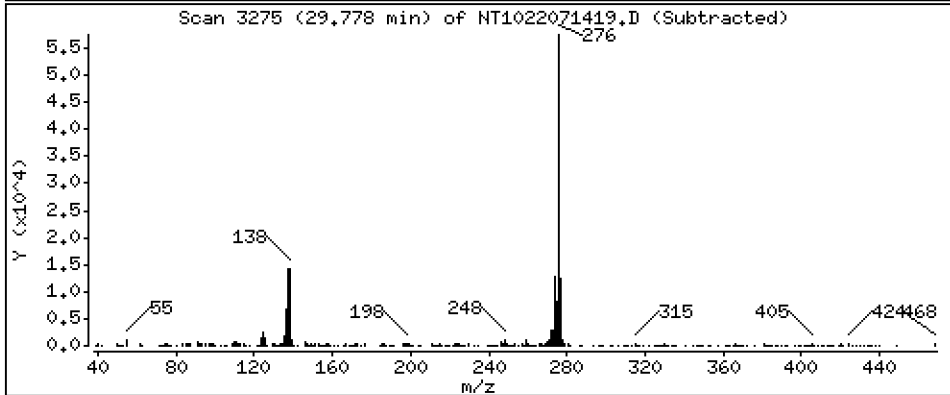
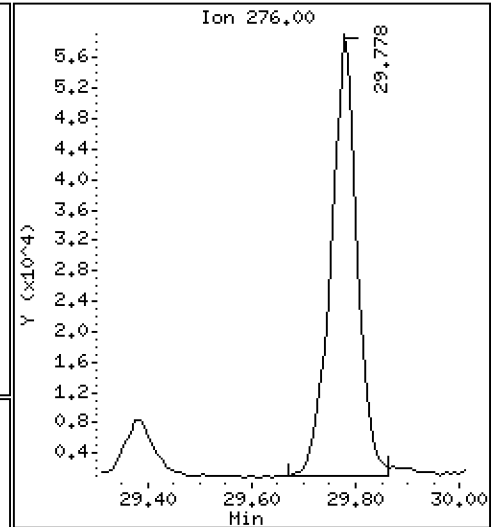
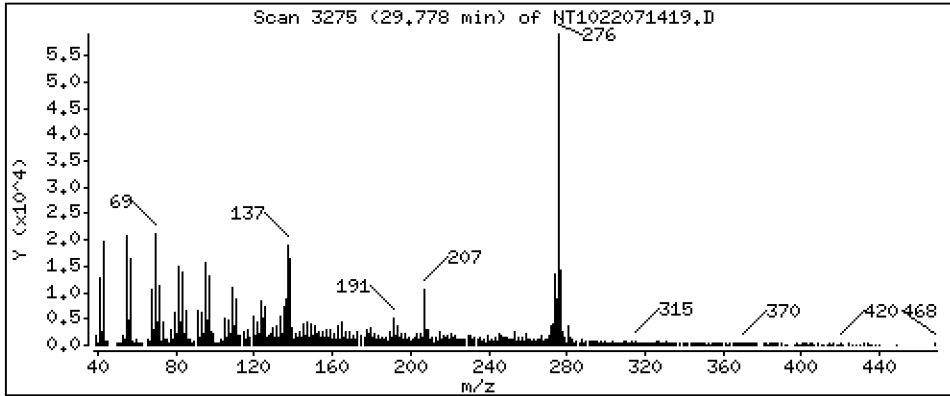
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 3,799 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11

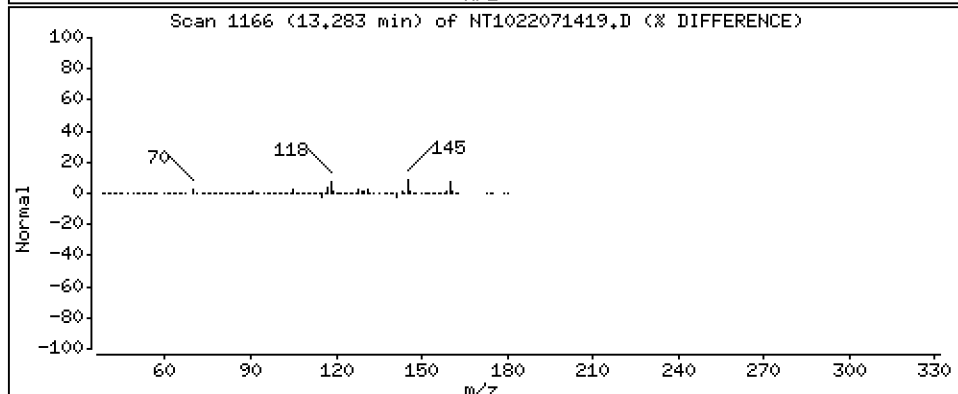
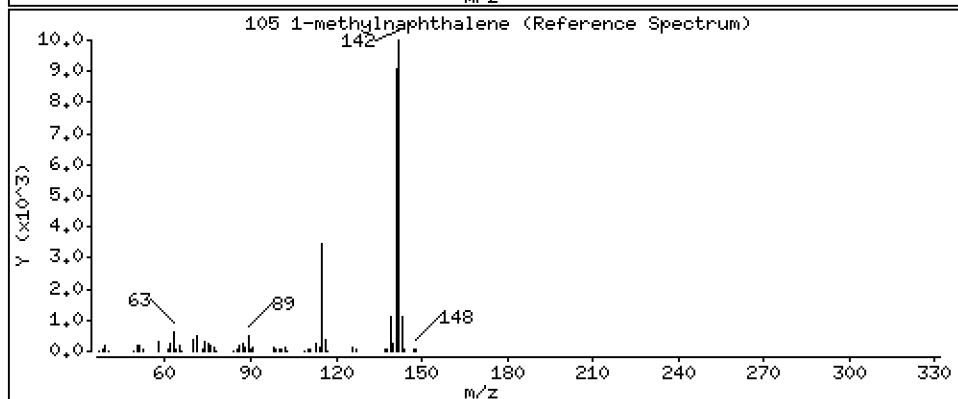
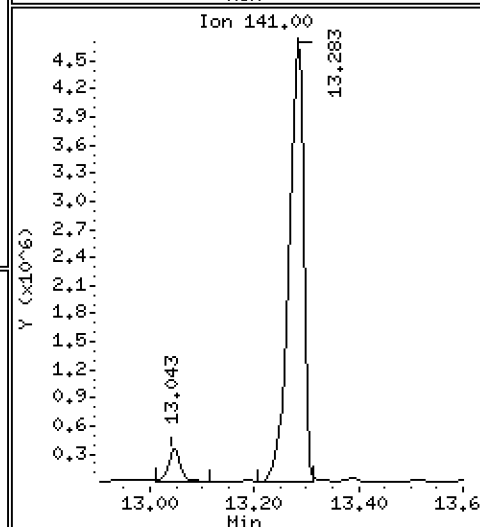
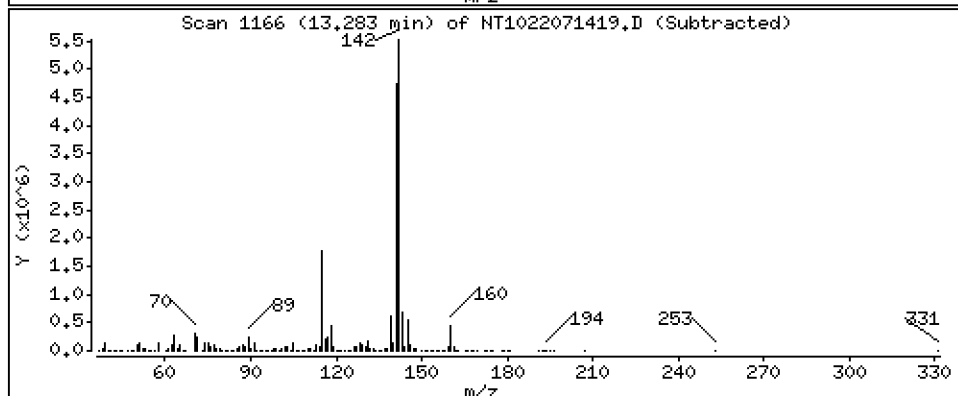
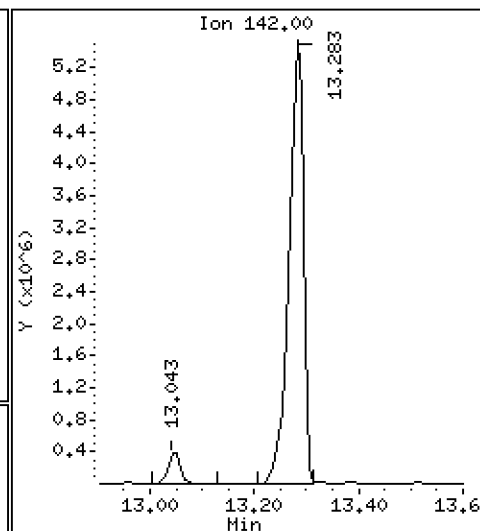
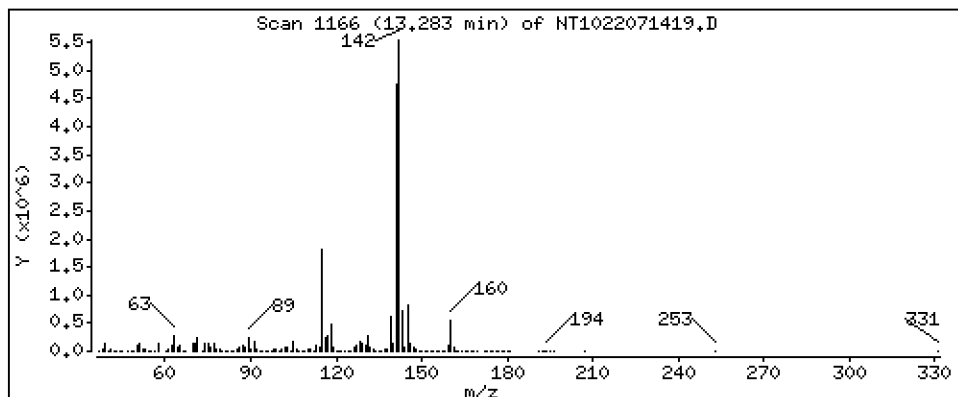
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 66,85 ug/mL



Date : 15-JUL-2022 01:23

Client ID:

Instrument: nt10.i

Sample Info: 2200019-11

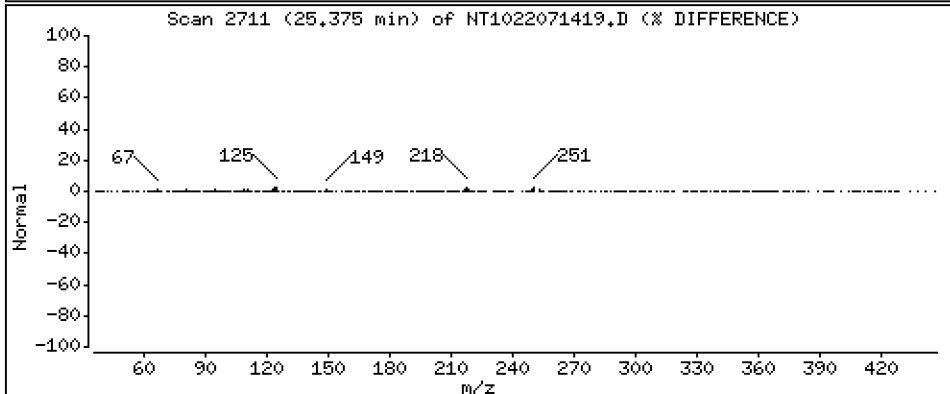
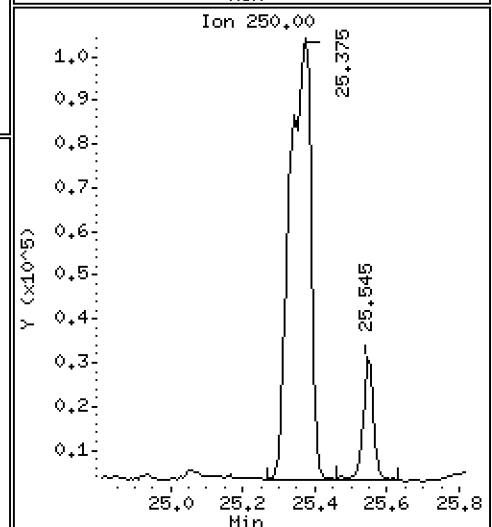
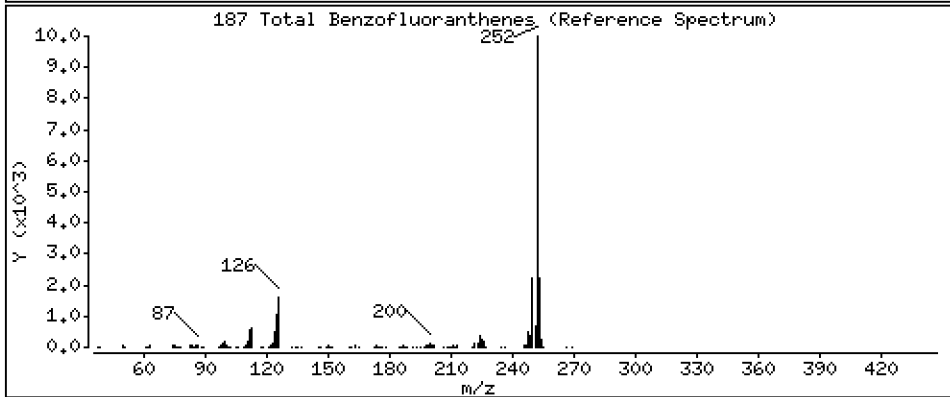
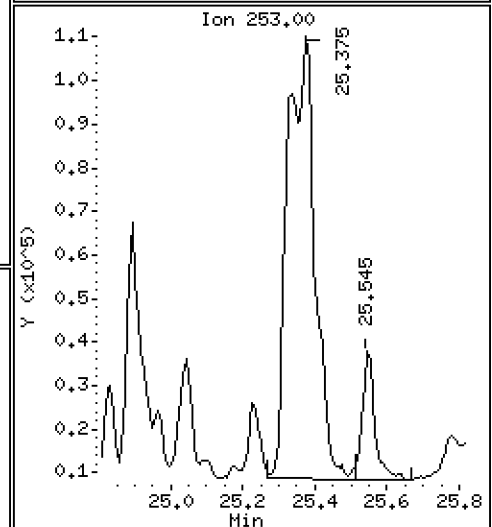
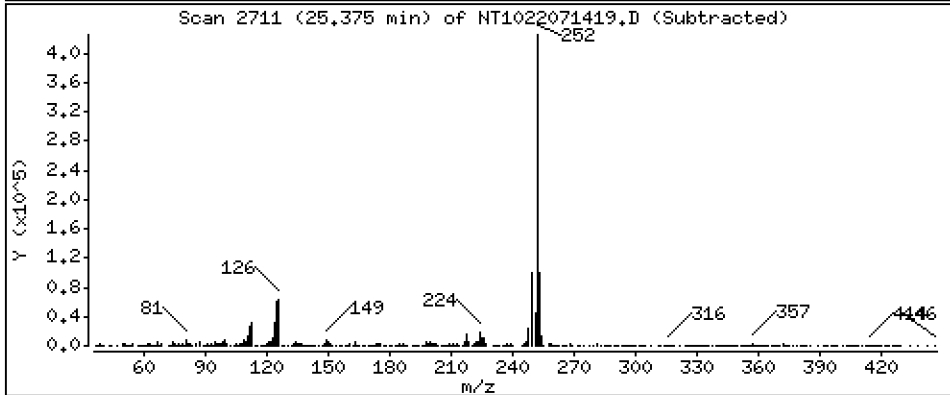
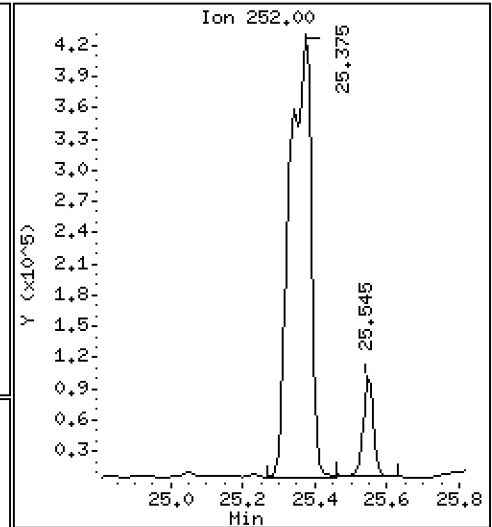
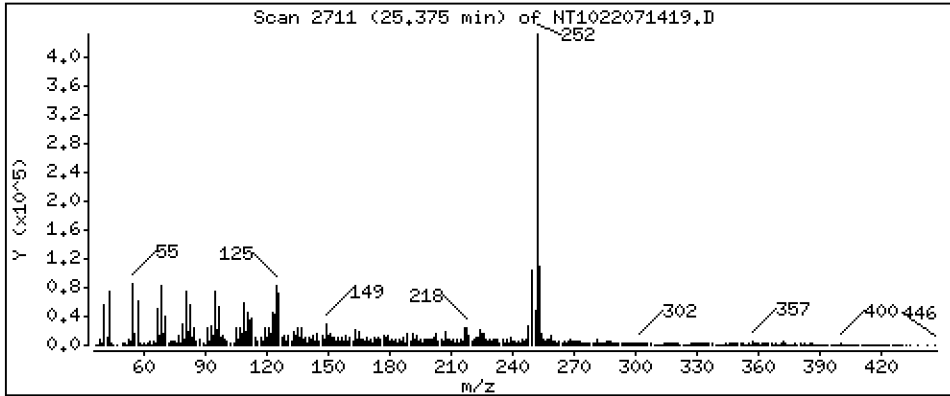
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 24,00 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071419.D
 Lab Smp Id: 22G0019-11
 Inj Date : 15-JUL-2022 01:23
 Operator : VTS
 Smp Info : 22G0019-11
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 14-Jul-2022 14:47 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.914	6.906	(0.759)	393816	4.78217	4.782
\$ 2 Phenol-d5	99		8.506	8.490	(0.934)	517686	4.23670	4.237
3 Phenol	94		8.529	8.513	(0.936)	30574	0.28715	0.2871
\$ 5 2-Chlorophenol-d4	132		8.761	8.753	(0.962)	548569	6.53754	6.538
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.101	(1.000)	225524	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.474	9.466	(1.040)	245152	4.74129	4.741
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.916	9.885	(1.089)	51558	0.73489	0.7349
\$ 18 Nitrobenzene-d5	82		10.211	10.195	(0.881)	263641	3.74121	3.741
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.596	11.589	(1.000)	662268	4.00000	
28 Naphthalene	128		11.643	11.627	(1.004)	2225551	13.1305	13.13
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		13.043	13.027	(1.125)	657538	3.90337	3.903
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.824	13.809	(0.908)	635384	5.16969	5.170
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152		14.916	14.900	(0.980)	395073	2.48844	2.488
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.225	15.210	(1.000)	271598	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.295	15.279	(1.005)	1340411	16.9698	16.97
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.627	15.612	(1.026)	415156	3.30721	3.307
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149		16.184	16.176	(1.063)	14832	0.18153	0.1815
49 Fluorene	166		16.346	16.323	(1.074)	1205848	8.03925	8.039
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.894	16.870	(1.110)	96470	7.79079	7.791
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.292	18.269	(1.000)	489073	4.00000	
60 Phenanthrene	178		18.354	18.316	(1.003)	6957617	54.1496	54.15
61 Anthracene	178		18.439	18.416	(1.008)	2087864	15.2482	15.25
62 Carbazole	167		18.780	18.757	(1.027)	339629	2.68862	2.689
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.784	20.722	(0.888)	6645396	28.6651	28.67
65 Pyrene	202		21.209	21.147	(0.906)	6564302	28.7820	28.78
\$ 66 Terphenyl-d14	244		21.465	21.434	(0.917)	349716	4.36890	4.369
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.377	23.331	(0.999)	1529792	15.7389	15.74
* 69 Chrysene-d12	240		23.408	23.362	(1.000)	229379	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.455	23.408	(1.002)	1471926	17.5528	17.55
72 bis(2-Ethylhexyl)phthalate	149							
* 134 Di-n-octylphthalate-d4	153		24.446	24.407	(1.000)	388393	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.344	25.266	(0.969)	805582	10.4194	10.42
75 Benzo(k)fluoranthene	252		25.375	25.313	(0.971)	1081362	14.5452	14.55 (M)
76 Benzo(a)pyrene	252		26.033	25.948	(0.996)	1129569	17.8508	17.85
* 77 Perylene-d12	264		26.141	26.064	(1.000)	170718	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.946	28.845	(1.107)	249113	3.68711	3.687
79 Dibenzo(a,h)anthracene	278		28.946	28.853	(1.107)	81518	1.57608	1.576
80 Benzo(g,h,i)perylene	276		29.777	29.661	(1.139)	205164	3.79879	3.799
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.283	13.252	(1.145)	11064374	66.8547	66.85
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.375	25.313	(0.971)	1730267	24.0021	24.00	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071419.D Calibration Time: 14:12
 Lab Smp Id: 22G0019-11
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	225524	15.16
27 Naphthalene-d8	626038	313019	1252076	662268	5.79
42 Acenaphthene-d10	366612	183306	733224	271598	-25.92
59 Phenanthrene-d10	635137	317569	1270274	489073	-23.00
69 Chrysene-d12	270778	135389	541556	229379	-15.29
134 Di-n-octylphthala	507031	253516	1014062	388393	-23.40
77 Perylene-d12	170107	85054	340214	170718	0.36

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.11	0.09
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.07
42 Acenaphthene-d10	15.21	14.71	15.71	15.23	0.10
59 Phenanthrene-d10	18.27	17.77	18.77	18.29	0.13
69 Chrysene-d12	23.36	22.86	23.86	23.41	0.20
134 Di-n-octylphthala	24.41	23.91	24.91	24.45	0.16
77 Perylene-d12	26.06	25.56	26.56	26.14	0.30

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

REVIEW SUMMARY FOR FILE - NT1022071419.D

Lab ID: 22G0019-11
nt10.i, ABN.m, 15-JUL-2022 01:23

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE			

RRT check based on Ccal File: NT1022071402.D

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

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

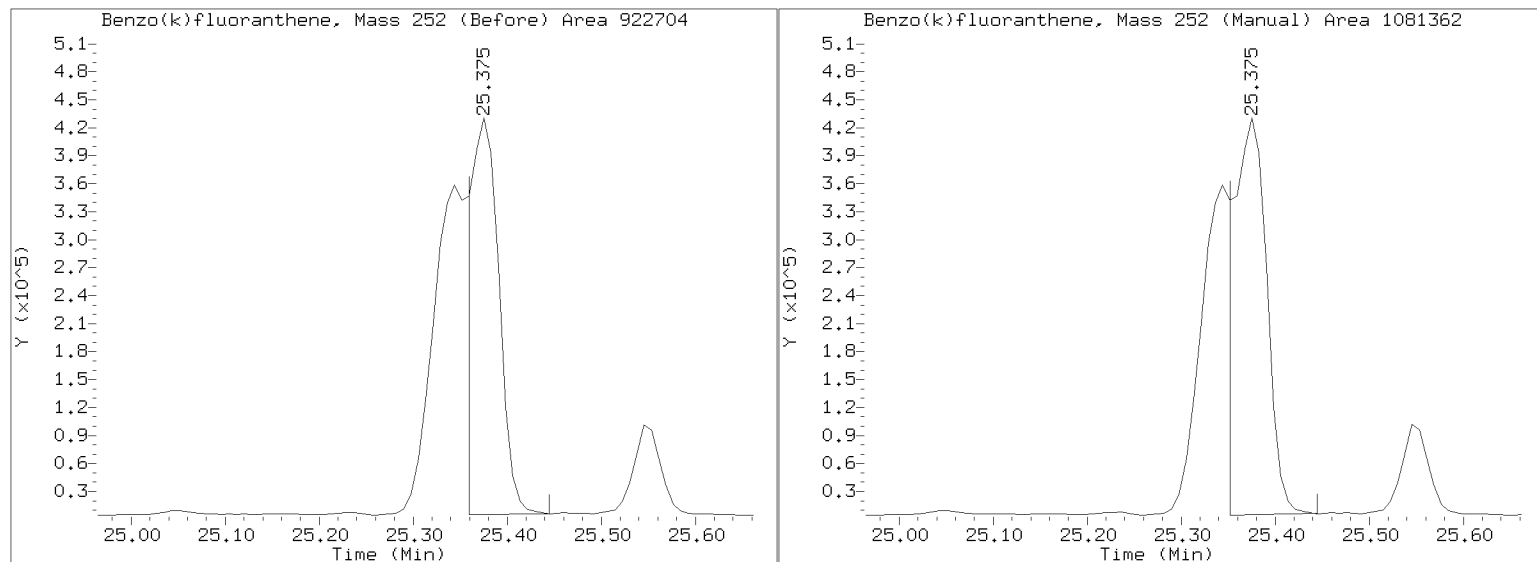
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071419.D

Injection Date: 15-JUL-2022 01:23

Lab ID:22G0019-11 Client ID:

Report Date: 07/19/2022 12:56





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

Laboratory: Analytical Resources, LLC

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Laboratory ID: 22G0019-11RE1 A

SDG: 22G0019

Sampled: 06/29/22 12:00

Prepared: 07/07/22 10:01

File ID: NT1022071517.D

% Solids: 77.99

Preparation: EPA 3546 (Microwave)

Analyzed: 07/15/22 22:36

Batch: BKG0069

Sequence: SKG0154

Initial/Final: 12.85 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: FF00062

Cleanups: GPC

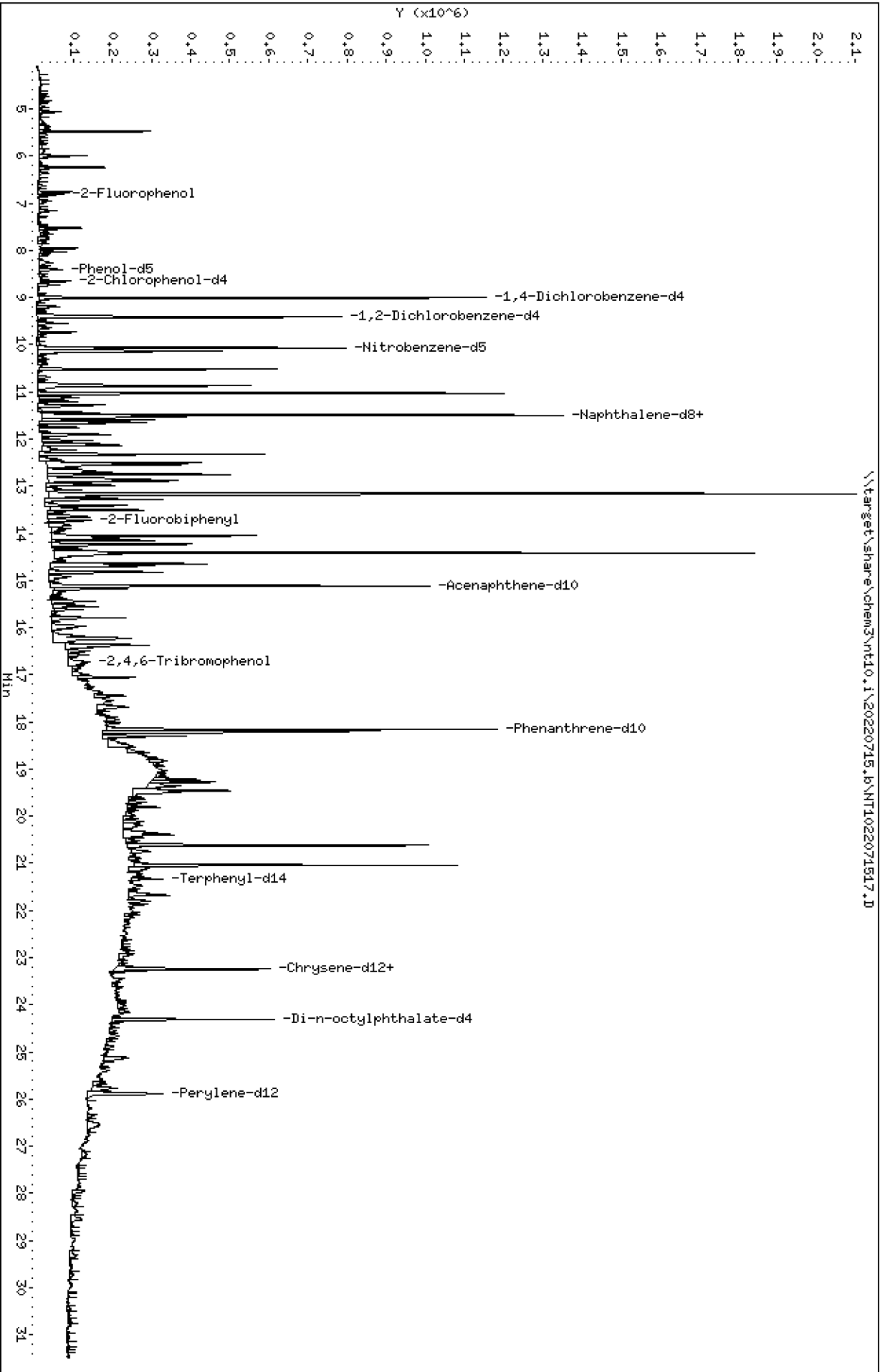
CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	20	1290	D	84.6	399
91-57-6	2-Methylnaphthalene	20	405	D	90.0	399
83-32-9	Acenaphthene	20	1520	D	104	399
87-86-5	Pentachlorophenol	20	624	U	624	2000
85-01-8	Phenanthrene	20	4750	D	174	399
206-44-0	Fluoranthene	20	7380	Q, D	122	399
56-55-3	Benzo(a)anthracene	20	1600	D	119	399
218-01-9	Chrysene	20	1910	Q, D	121	399
205-99-2	Benzo(b)fluoranthene	20	940	D	140	399
207-08-9	Benzo(k)fluoranthene	20	1060	D	100	399
50-32-8	Benzo(a)pyrene	20	1540	D	84.4	399
193-39-5	Indeno(1,2,3-cd)pyrene	20	832	D	292	399
53-70-3	Dibenzo(a,h)anthracene	20	344	U	344	399
90-12-0	1-Methylnaphthalene	20	8280	D	105	399

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.37	629	84.0	27 - 120	
Phenol-d5	748.37	475	63.4	29 - 120	
2-Chlorophenol-d4	748.37	693	92.7	31 - 120	
1,2-Dichlorobenzene-d4	498.92	448	89.7	32 - 120	
Nitrobenzene-d5	498.92	430	86.1	30 - 120	
2-Fluorobiphenyl	498.92	527	106	35 - 120	
2,4,6-Tribromophenol	748.37	624	83.3	24 - 134	
p-Terphenyl-d14	498.92	885	177	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220715.6\NT1022071517.D
Date: 15-JUL-2022 22:36
Client ID:
Sample Info: 2200019-11REL.20

Column phase: ZB-5msi

Instrument: nt10.1
Operator: VTS
Column diameter: 0.25



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

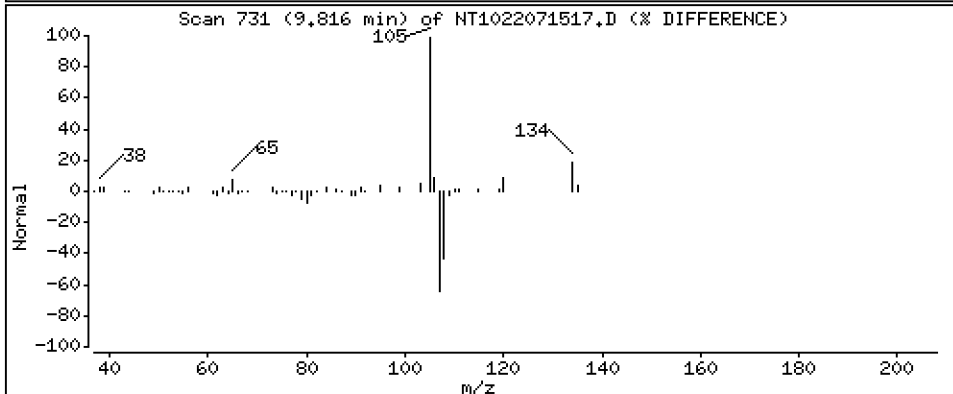
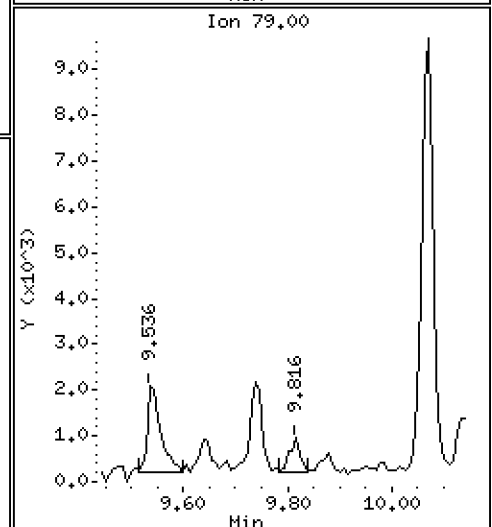
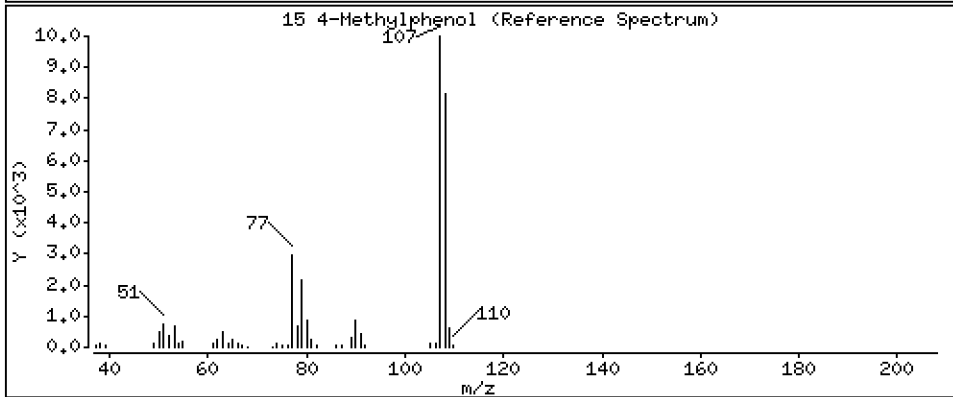
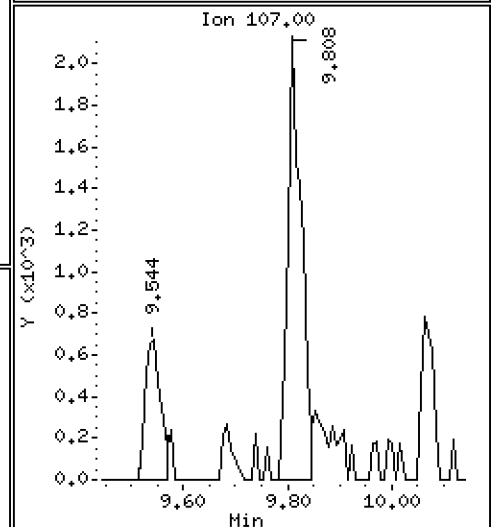
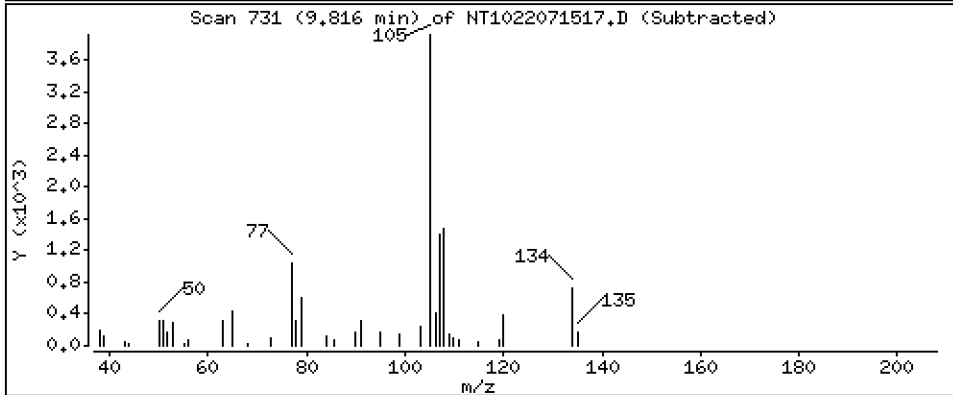
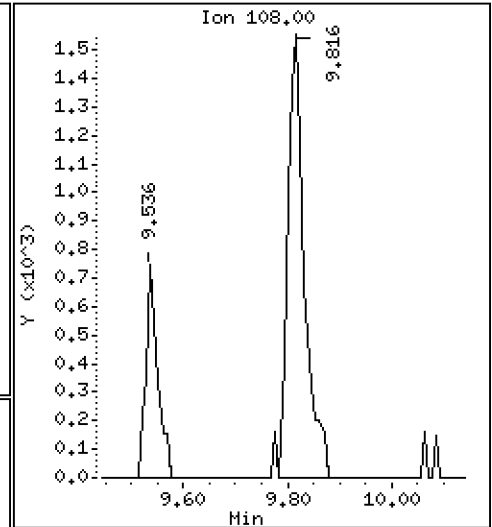
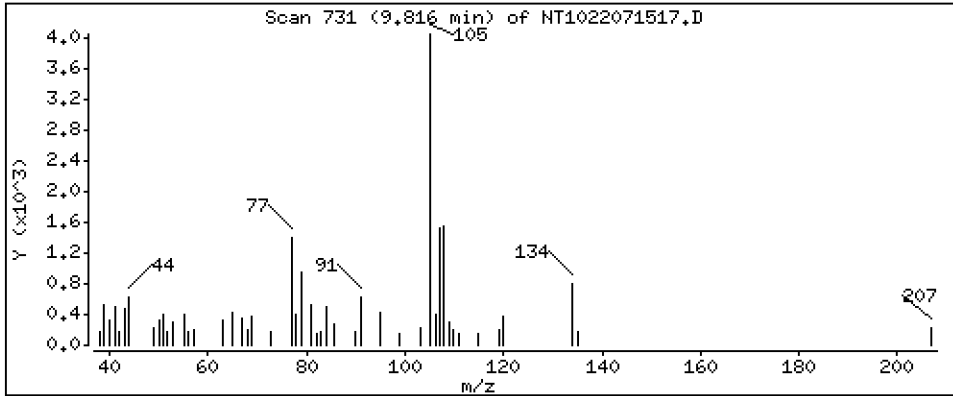
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,7275 ug/mL

15 4-Methylphenol



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

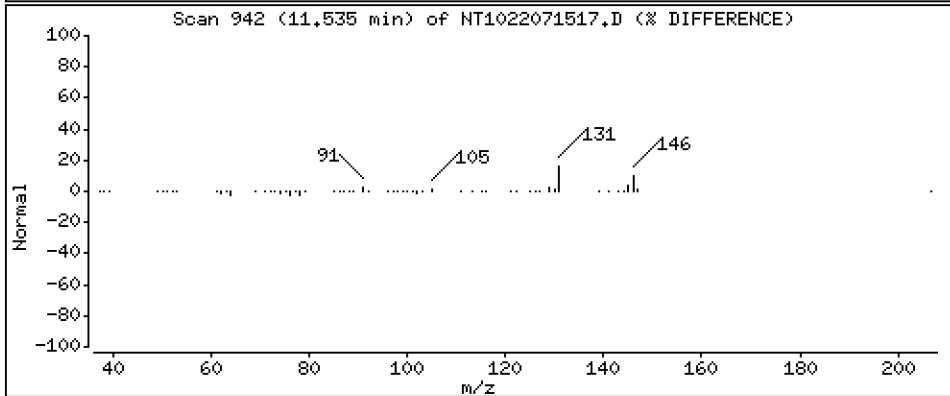
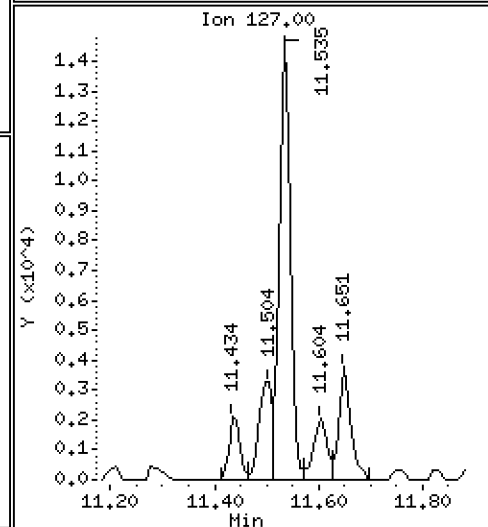
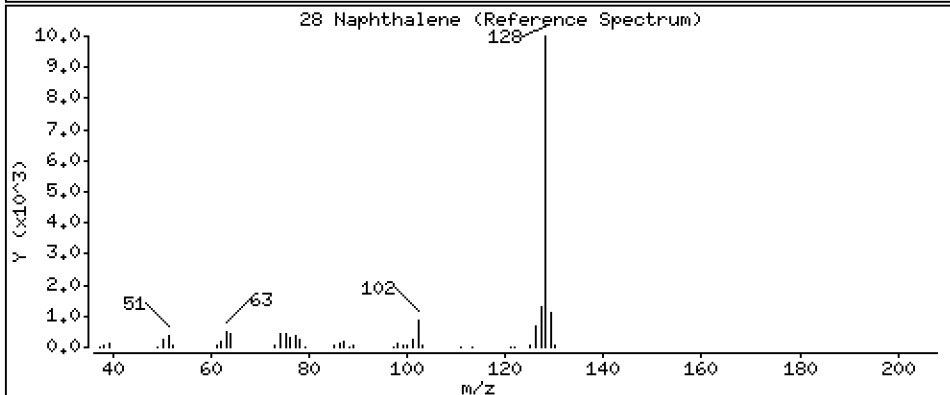
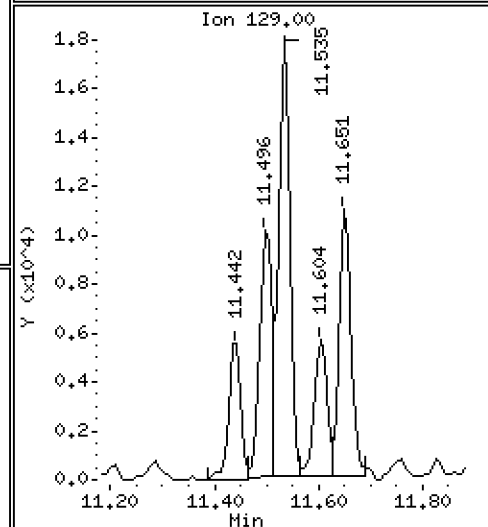
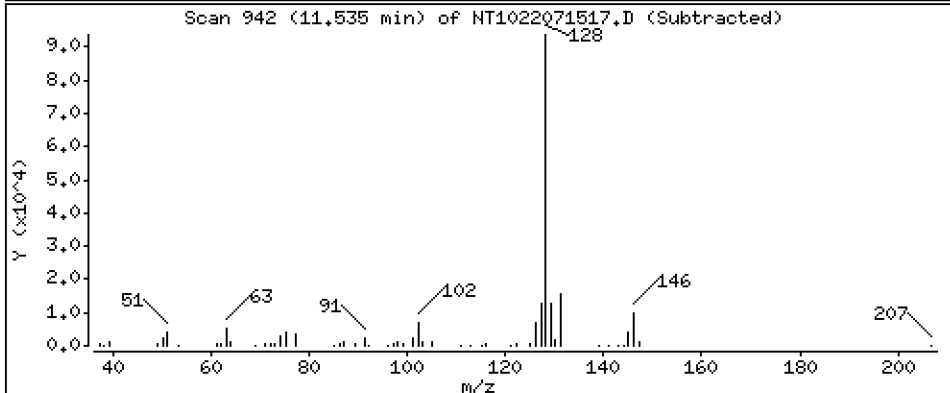
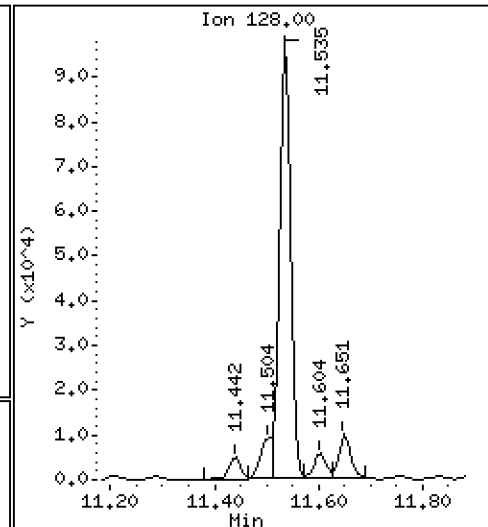
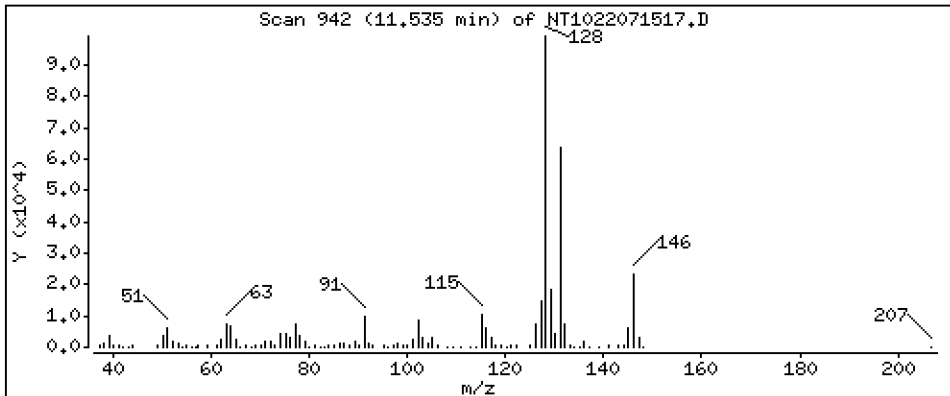
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 12,95 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 2200019-11RE1,20

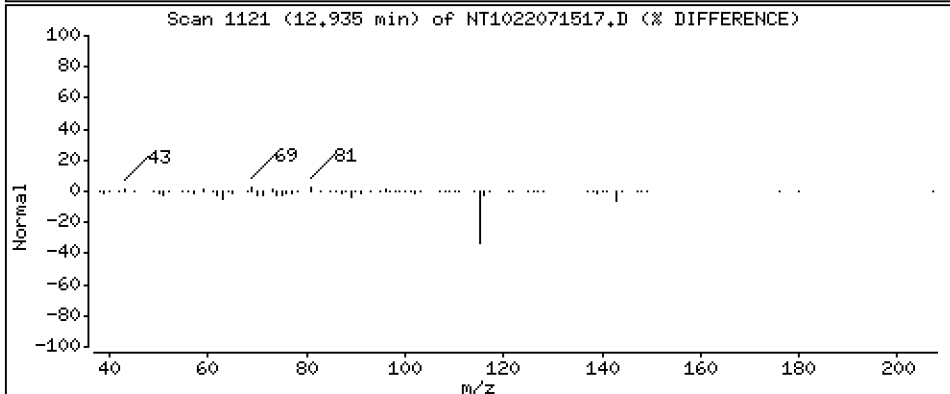
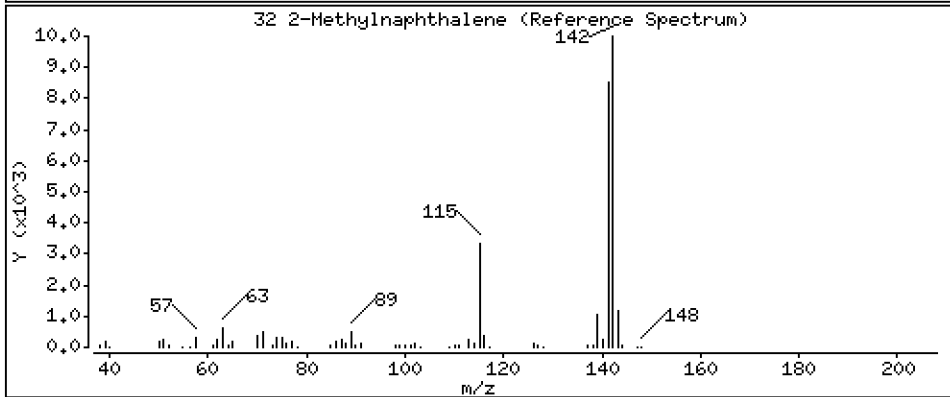
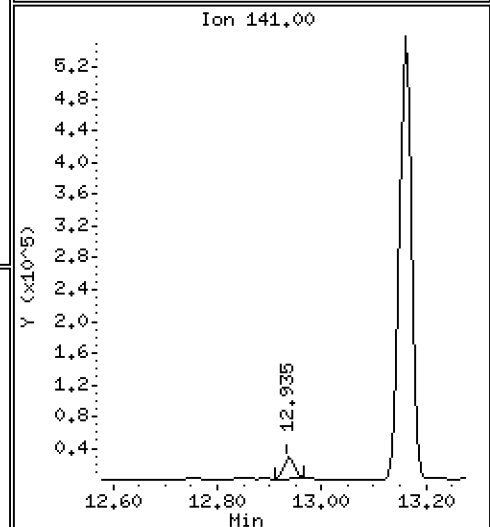
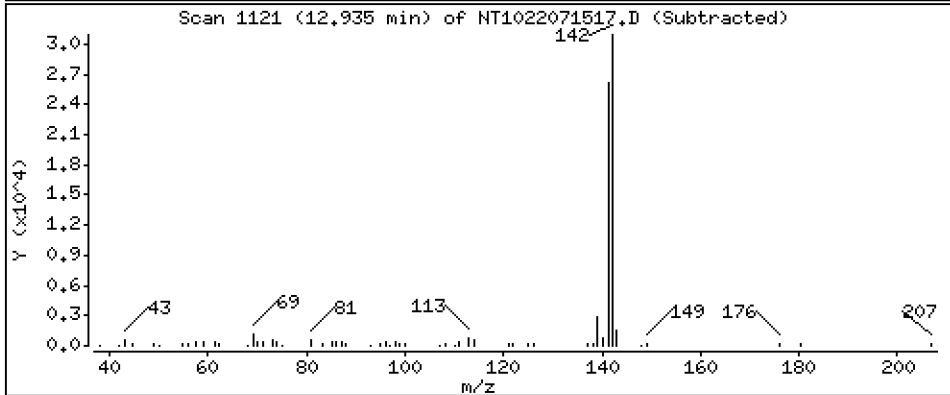
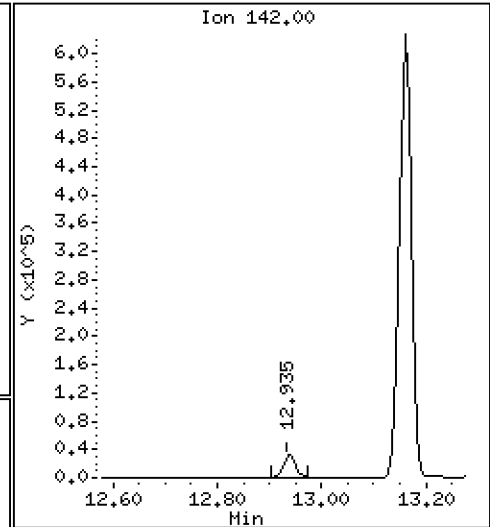
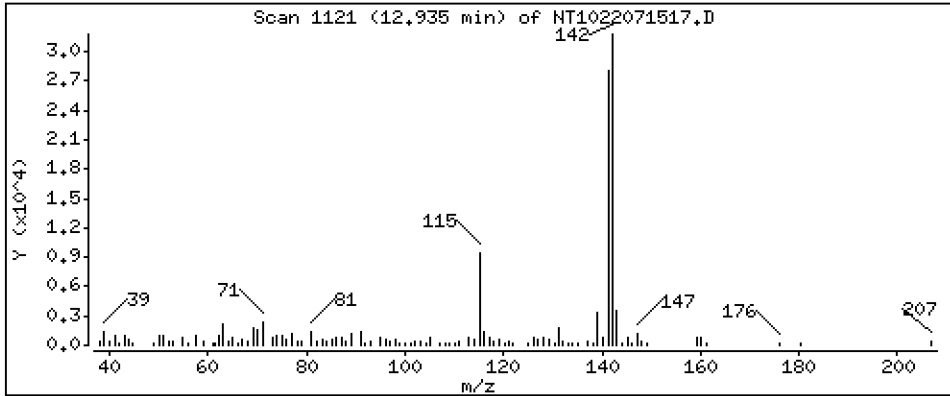
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,059 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

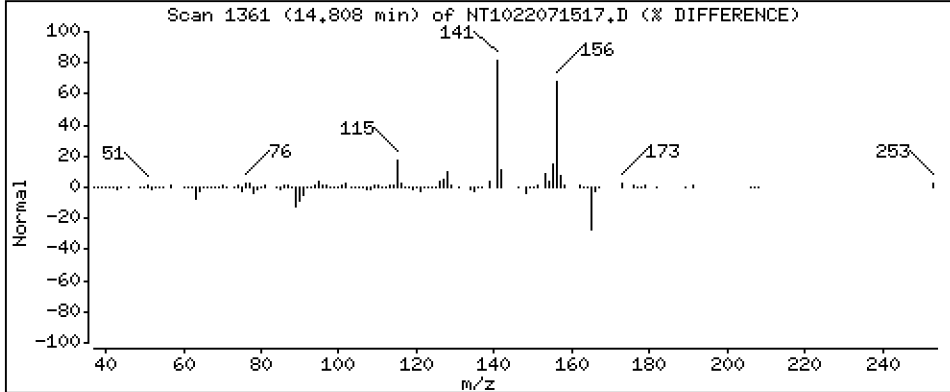
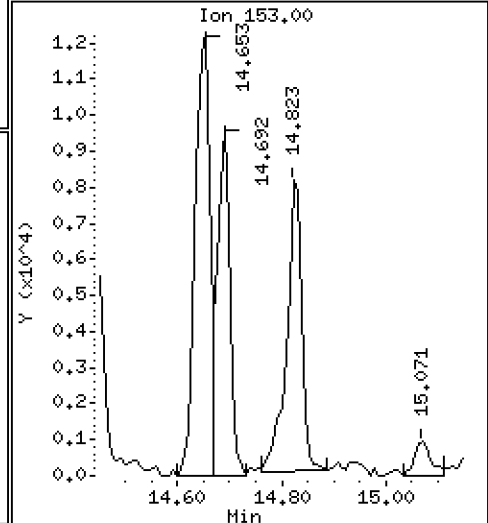
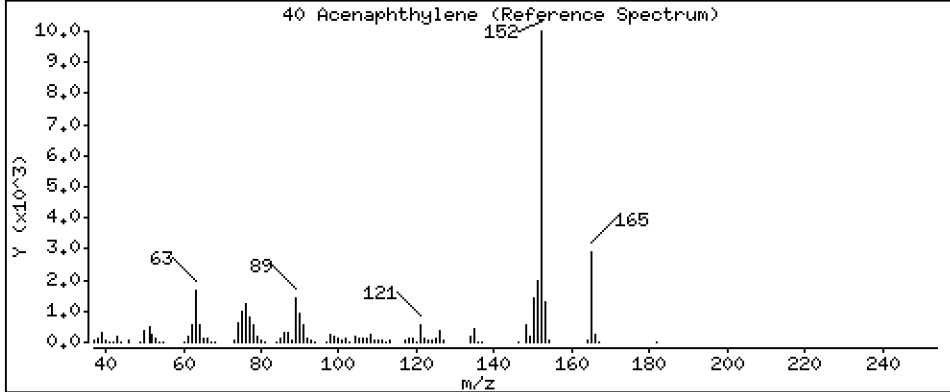
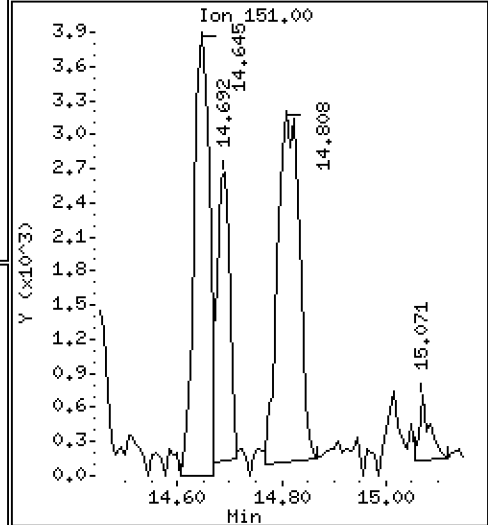
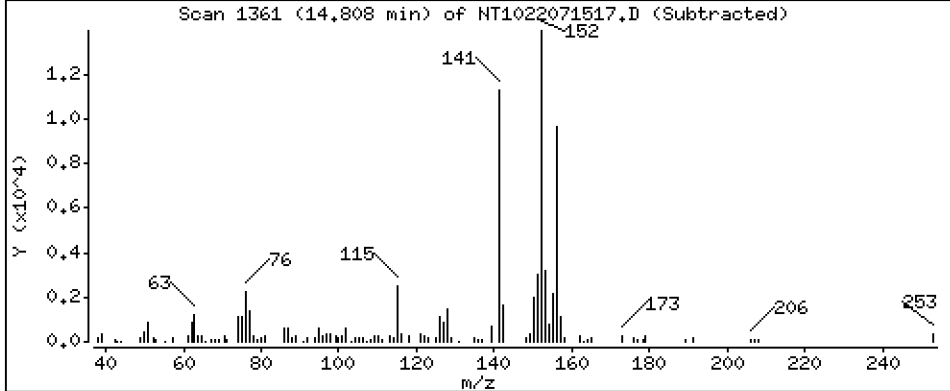
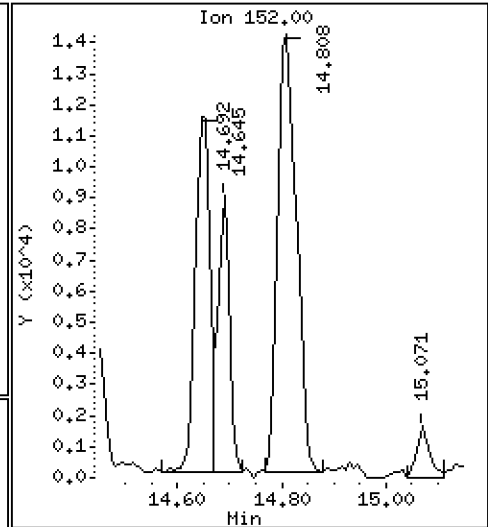
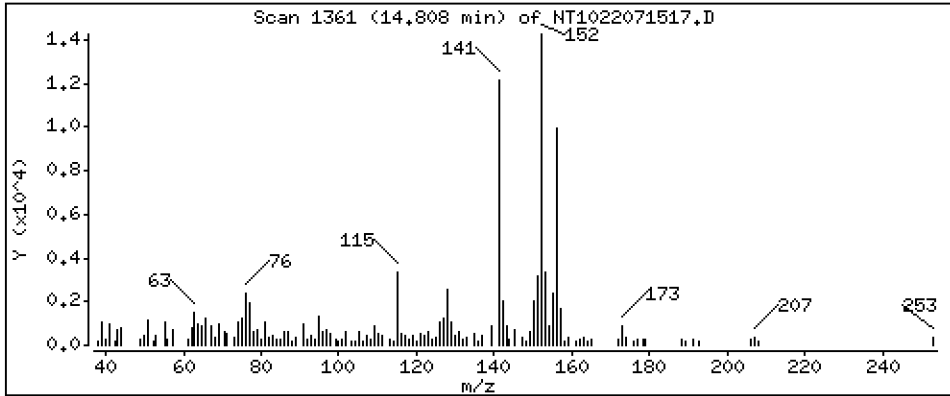
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 2,951 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 2200019-11RE1,20

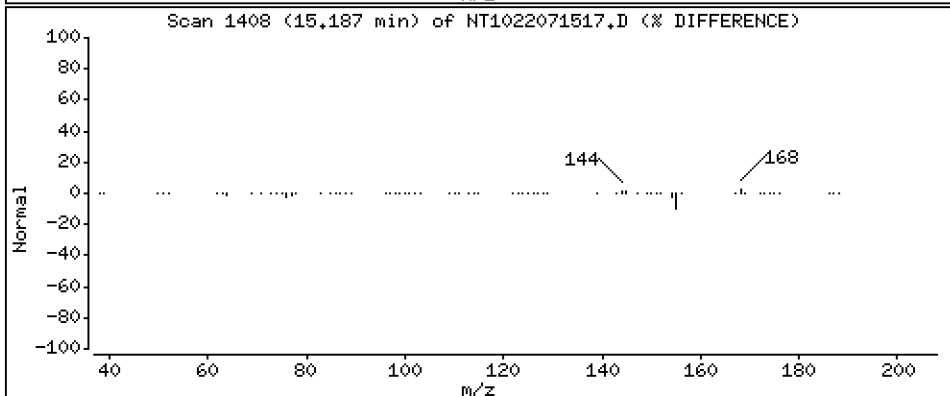
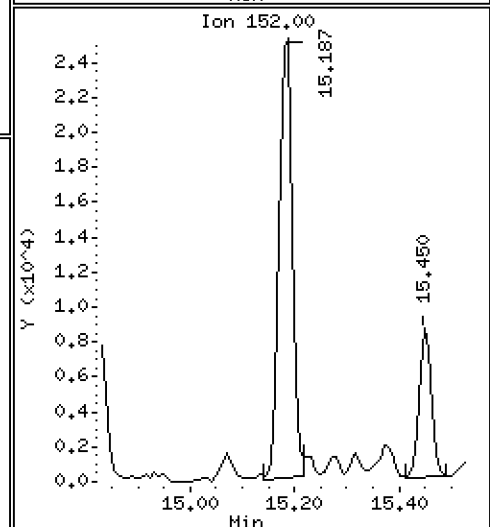
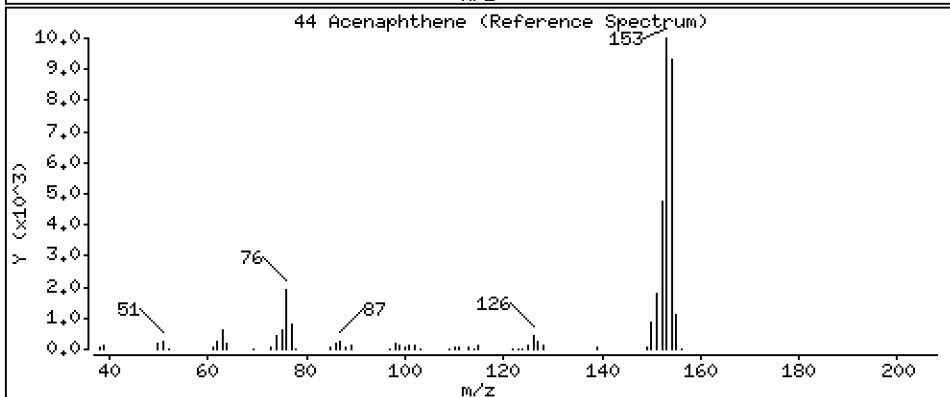
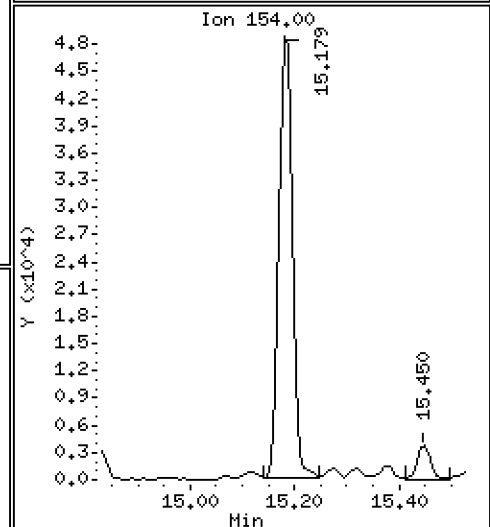
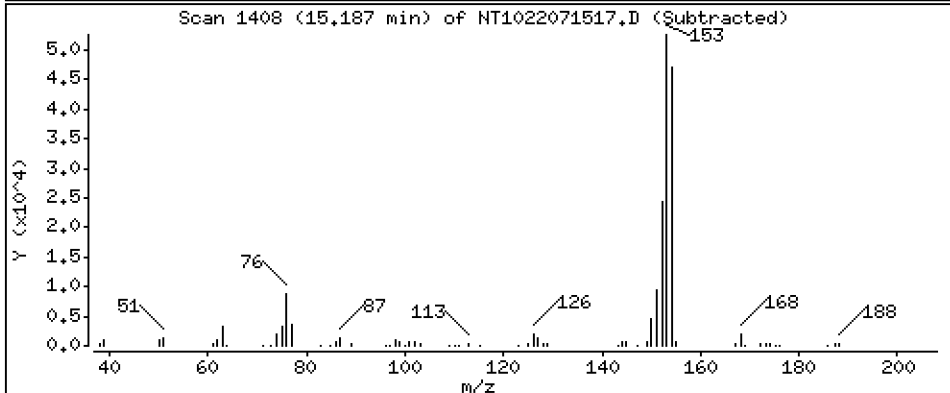
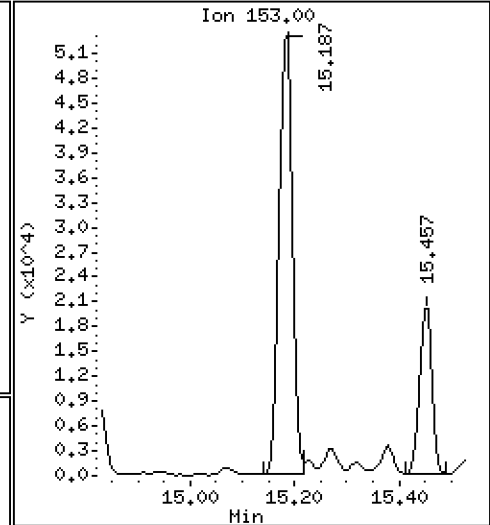
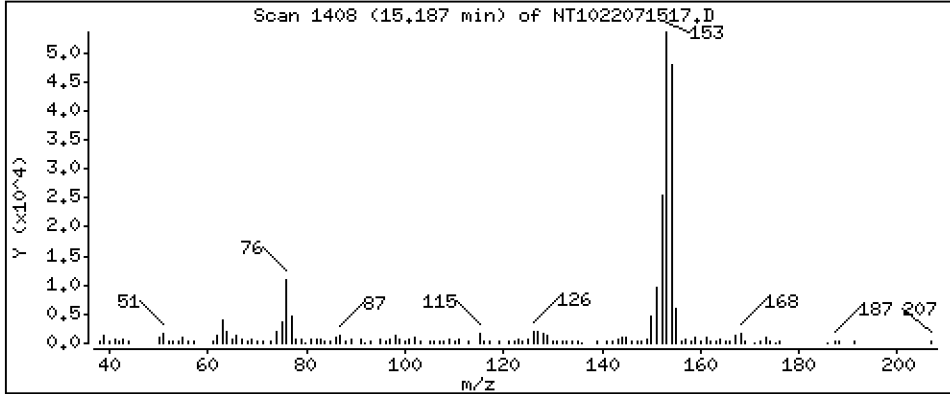
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 15,28 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

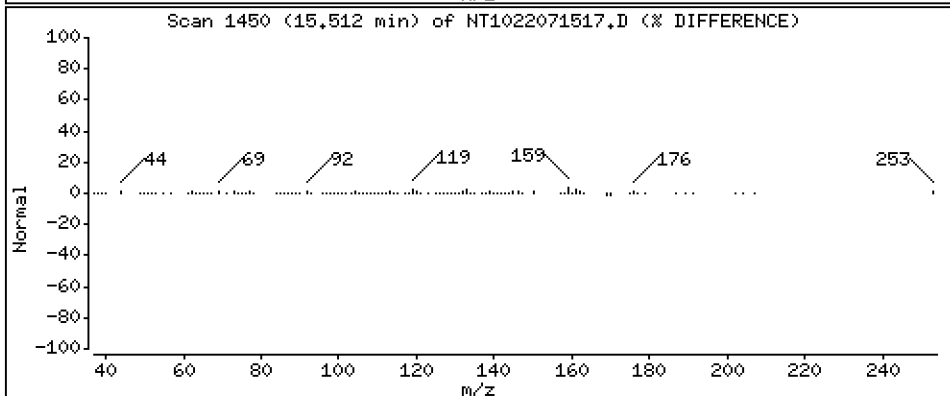
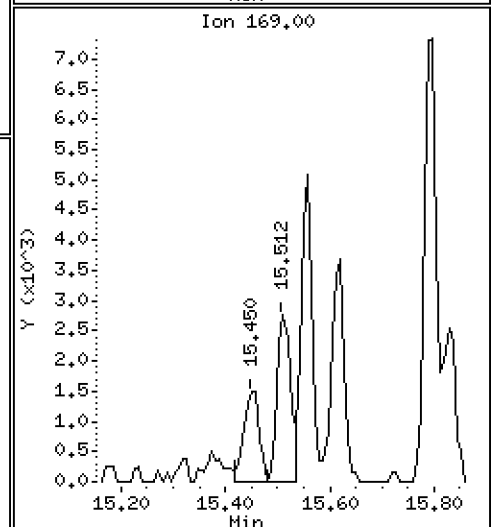
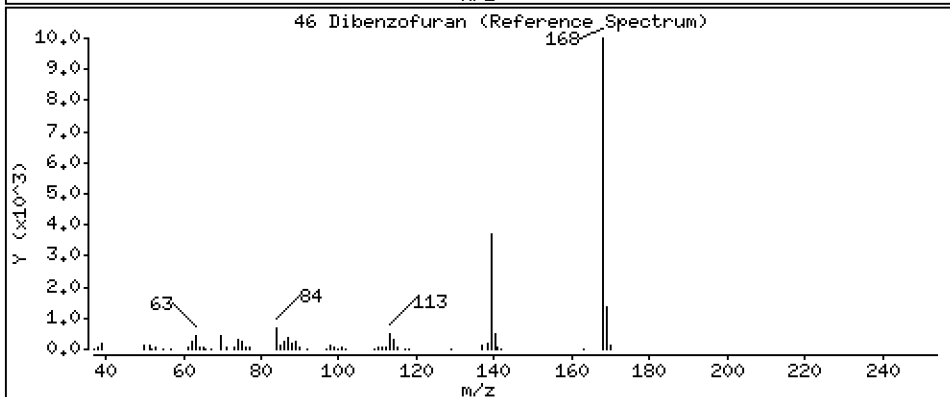
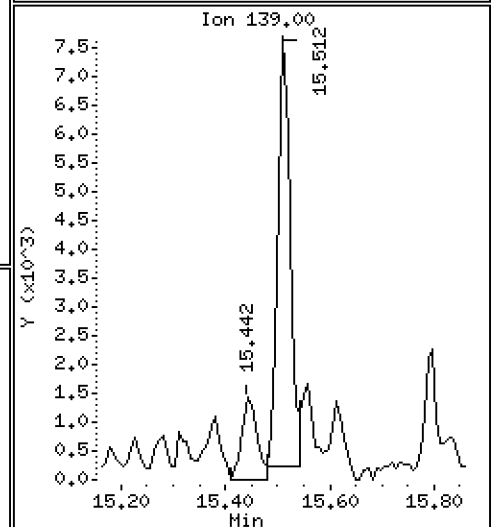
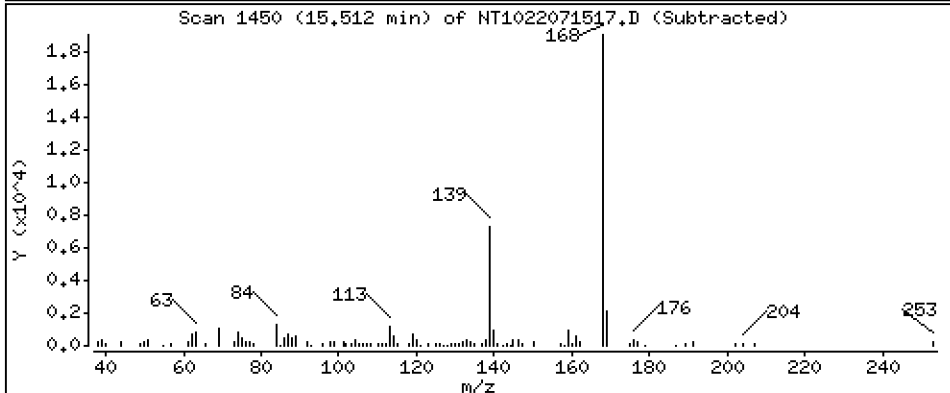
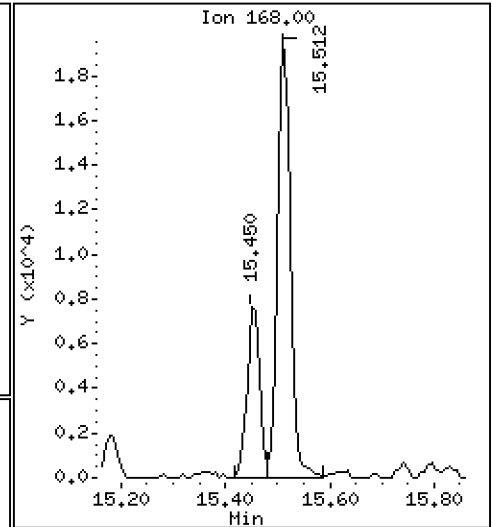
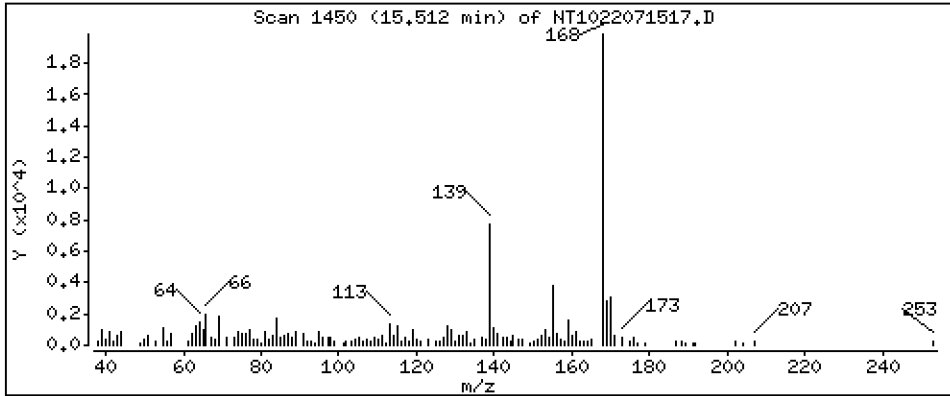
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 3,386 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

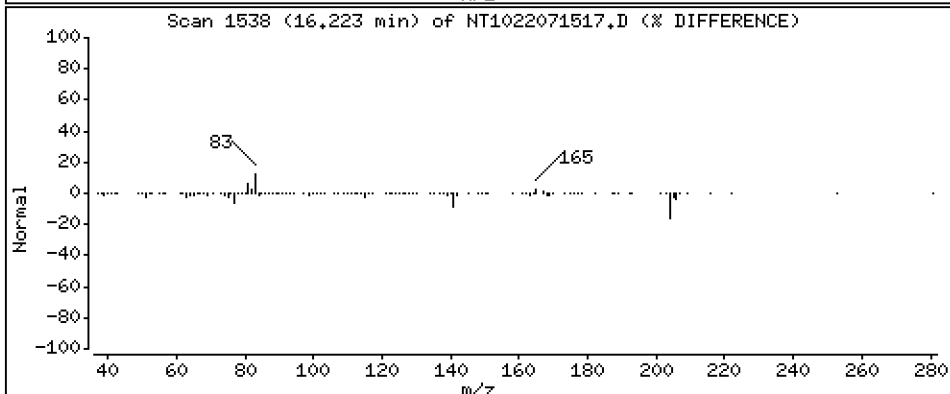
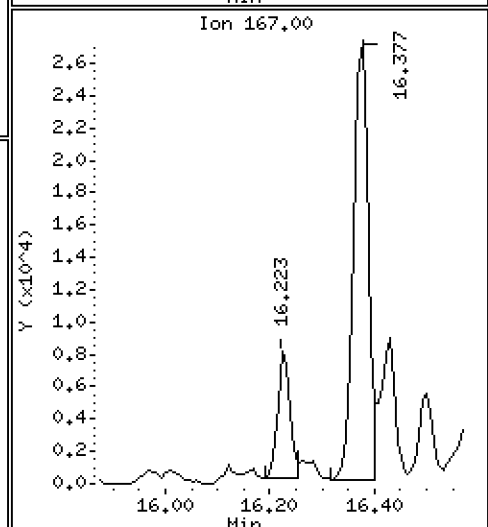
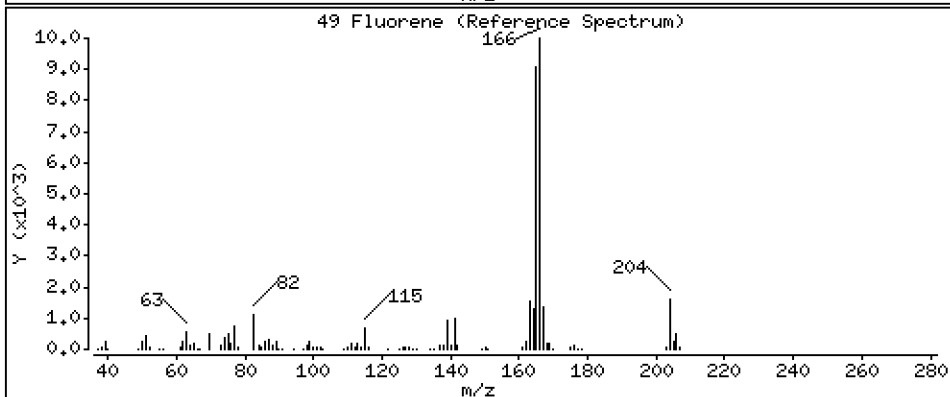
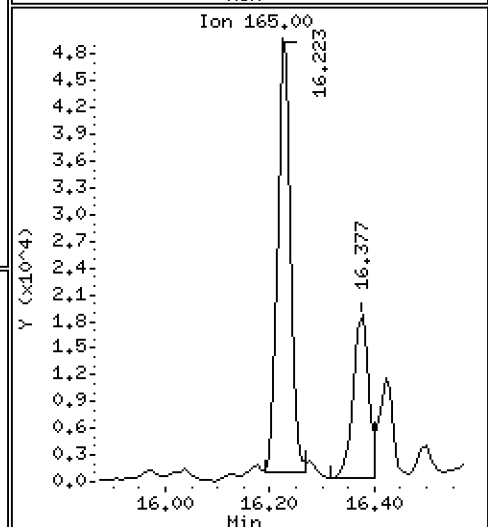
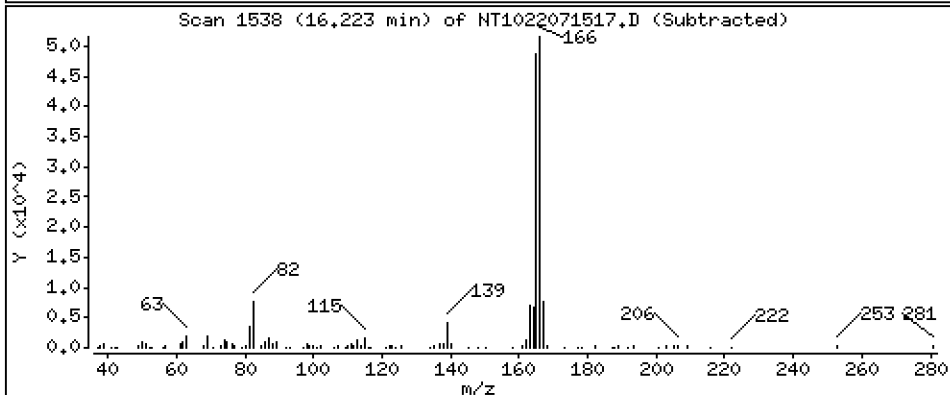
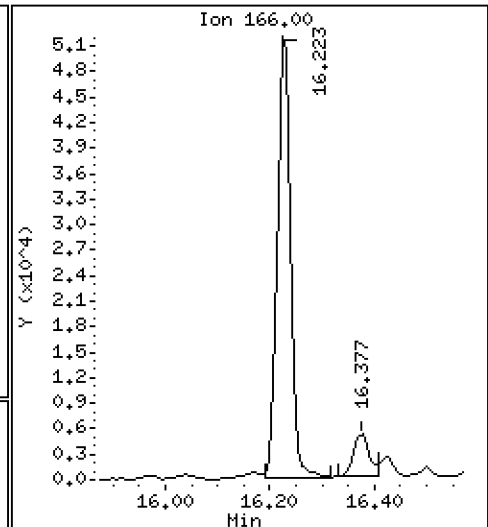
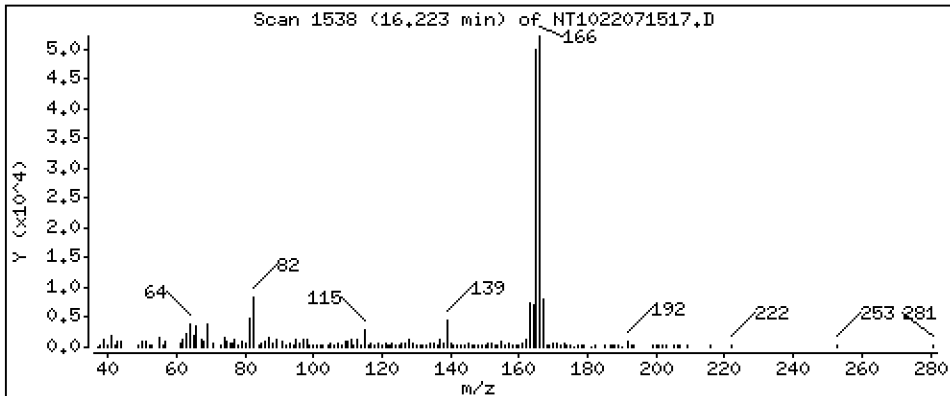
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 8,127 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 2200019-11RE1,20

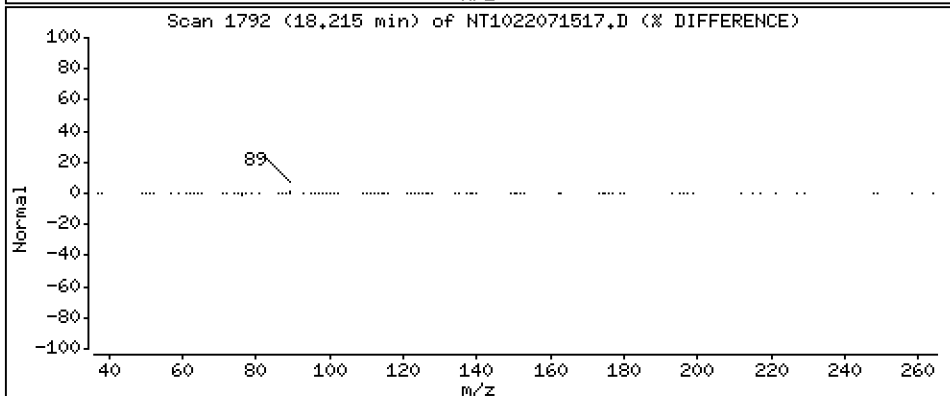
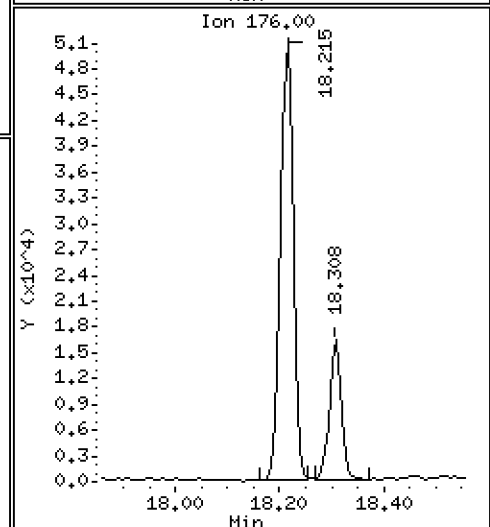
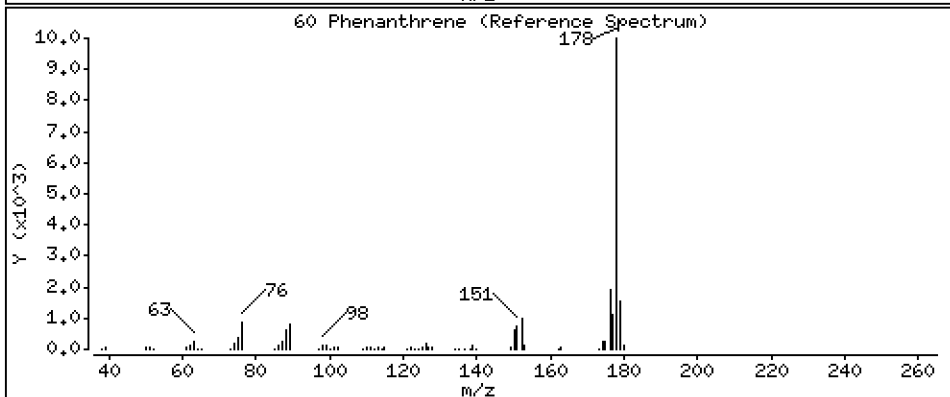
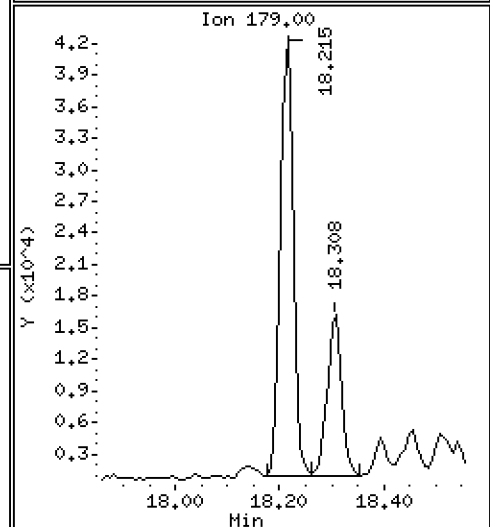
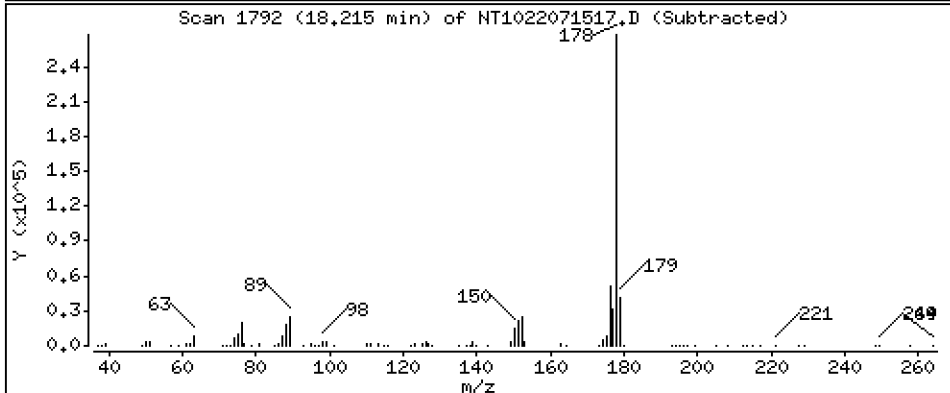
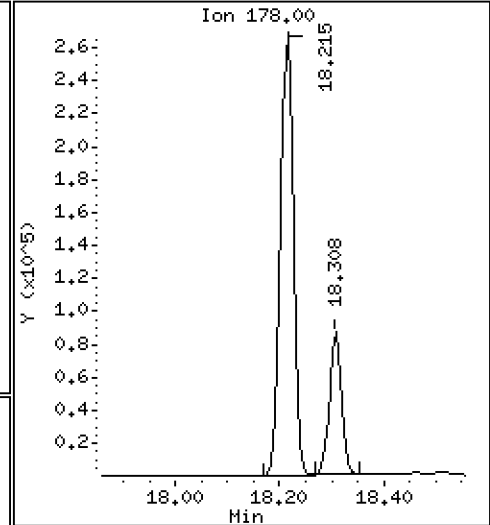
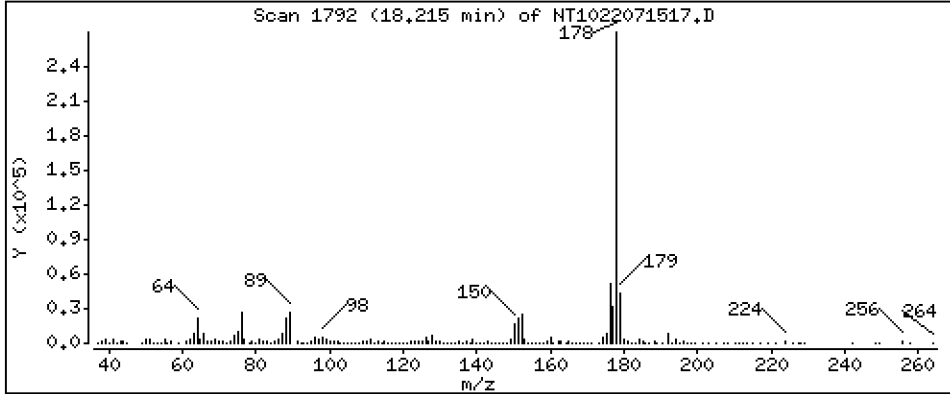
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 47,65 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 2200019-11RE1,20

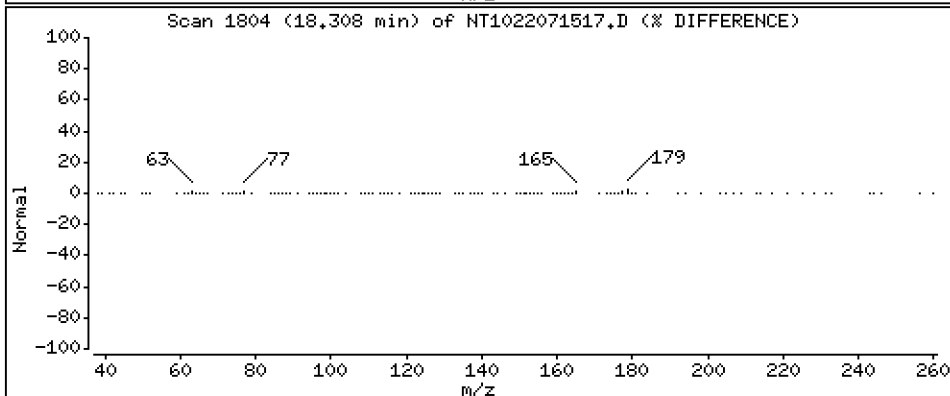
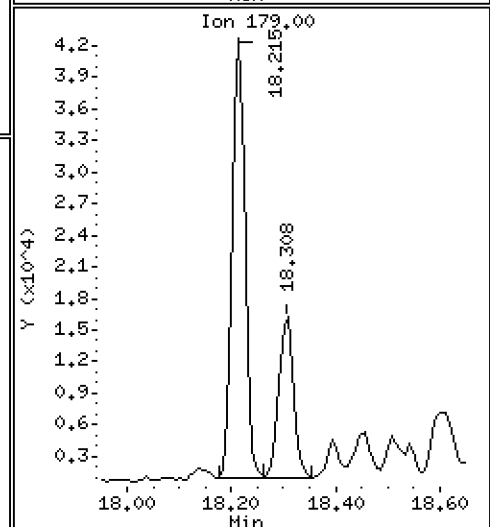
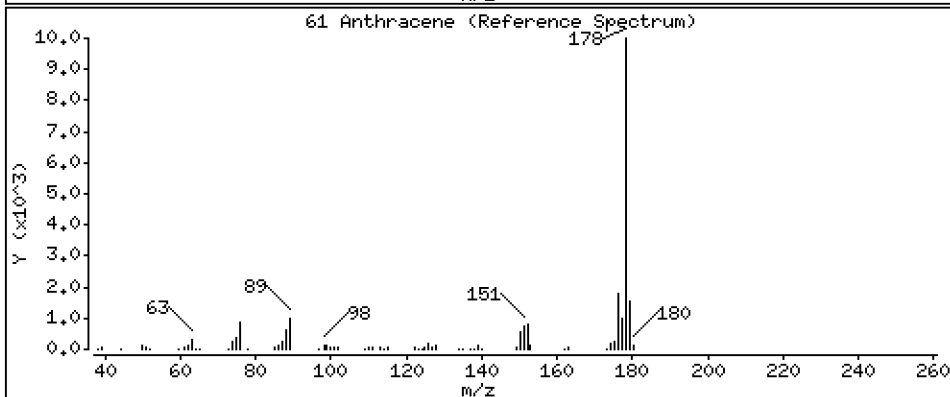
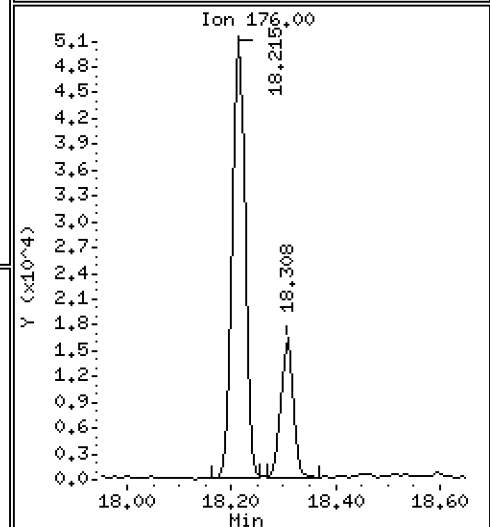
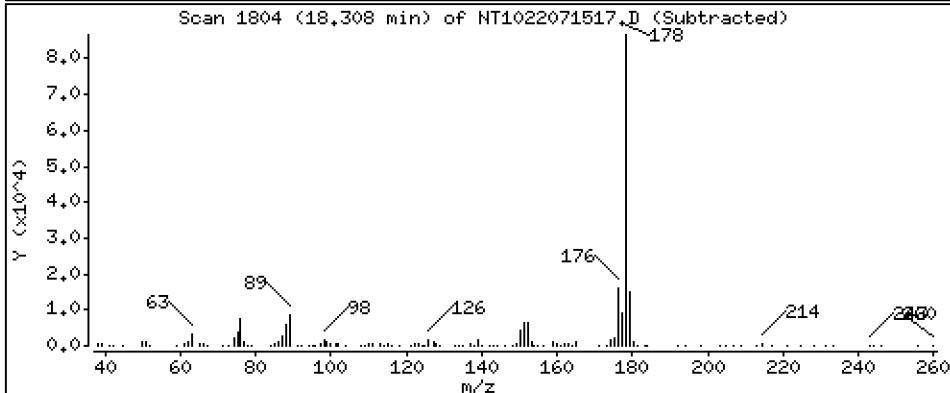
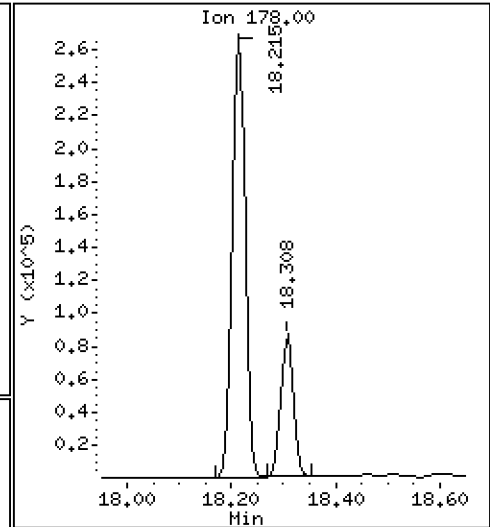
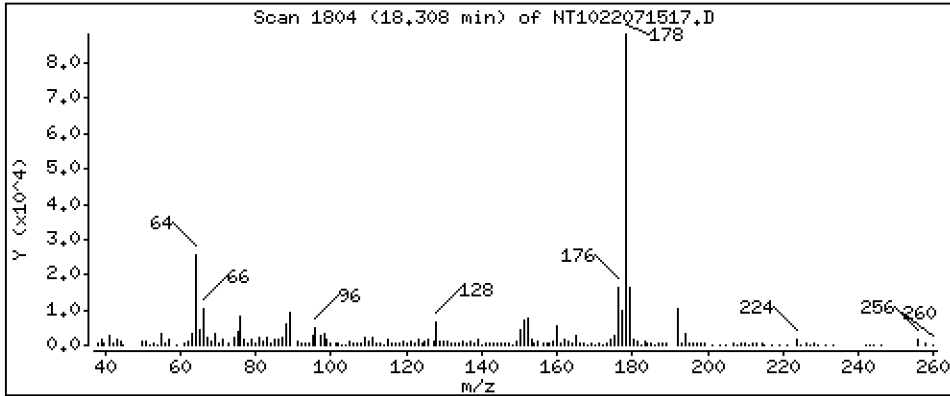
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 14,33 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

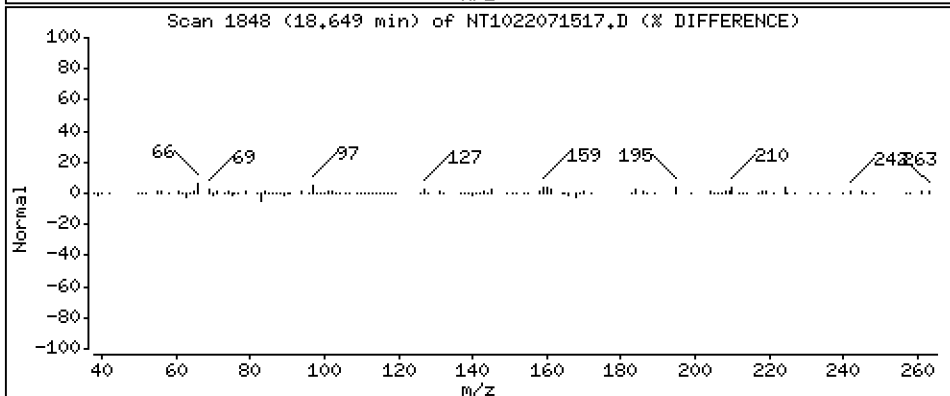
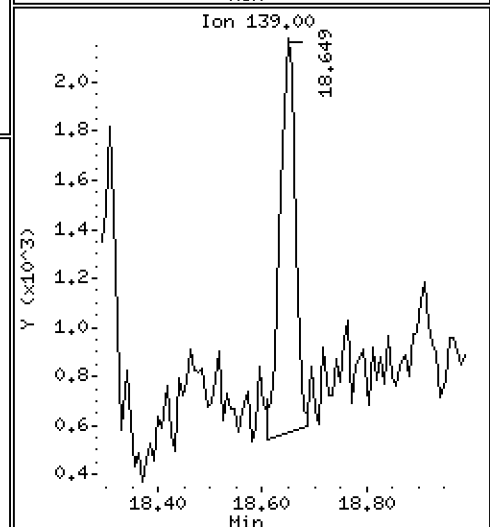
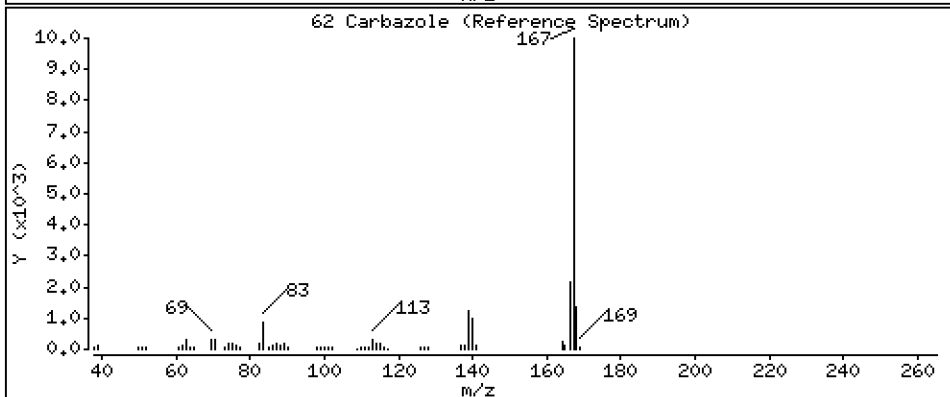
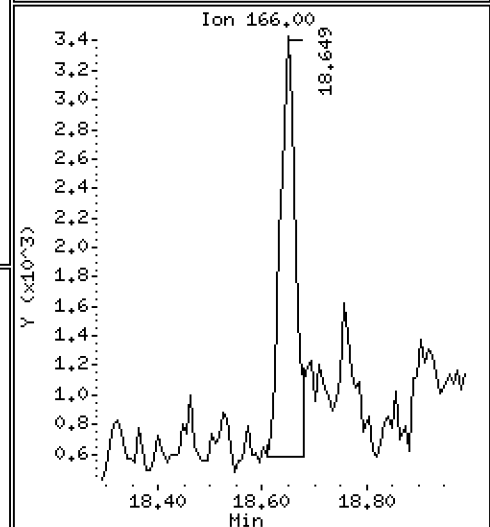
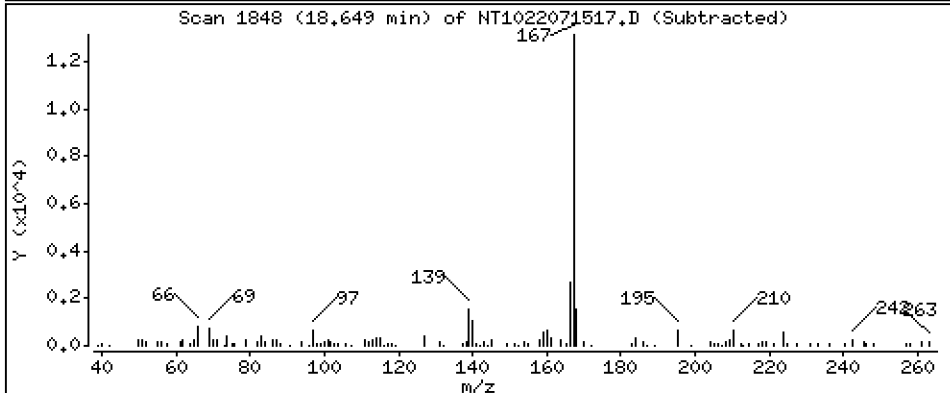
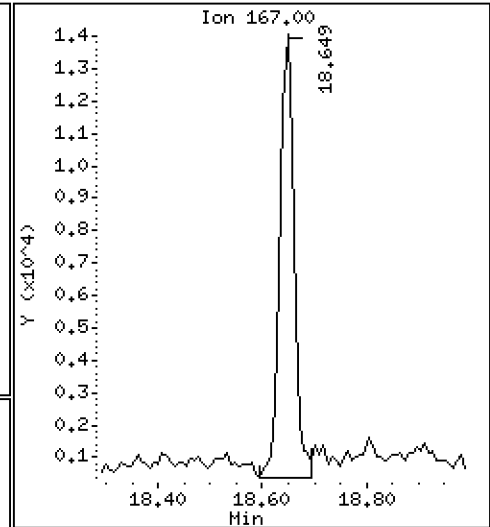
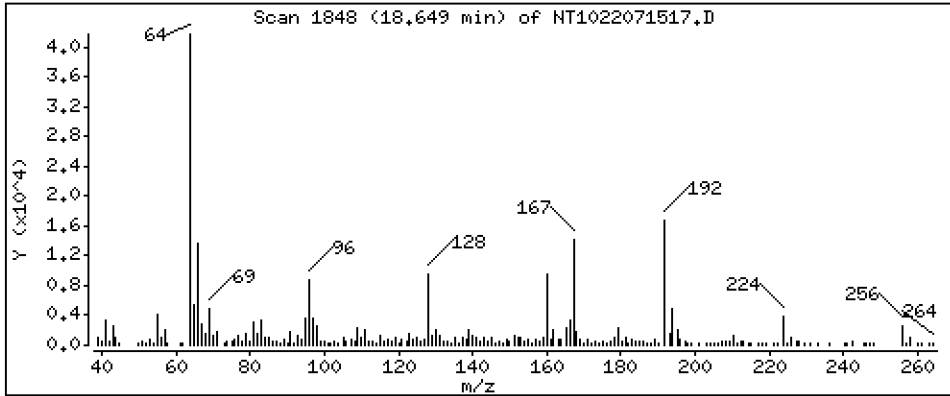
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 2,772 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

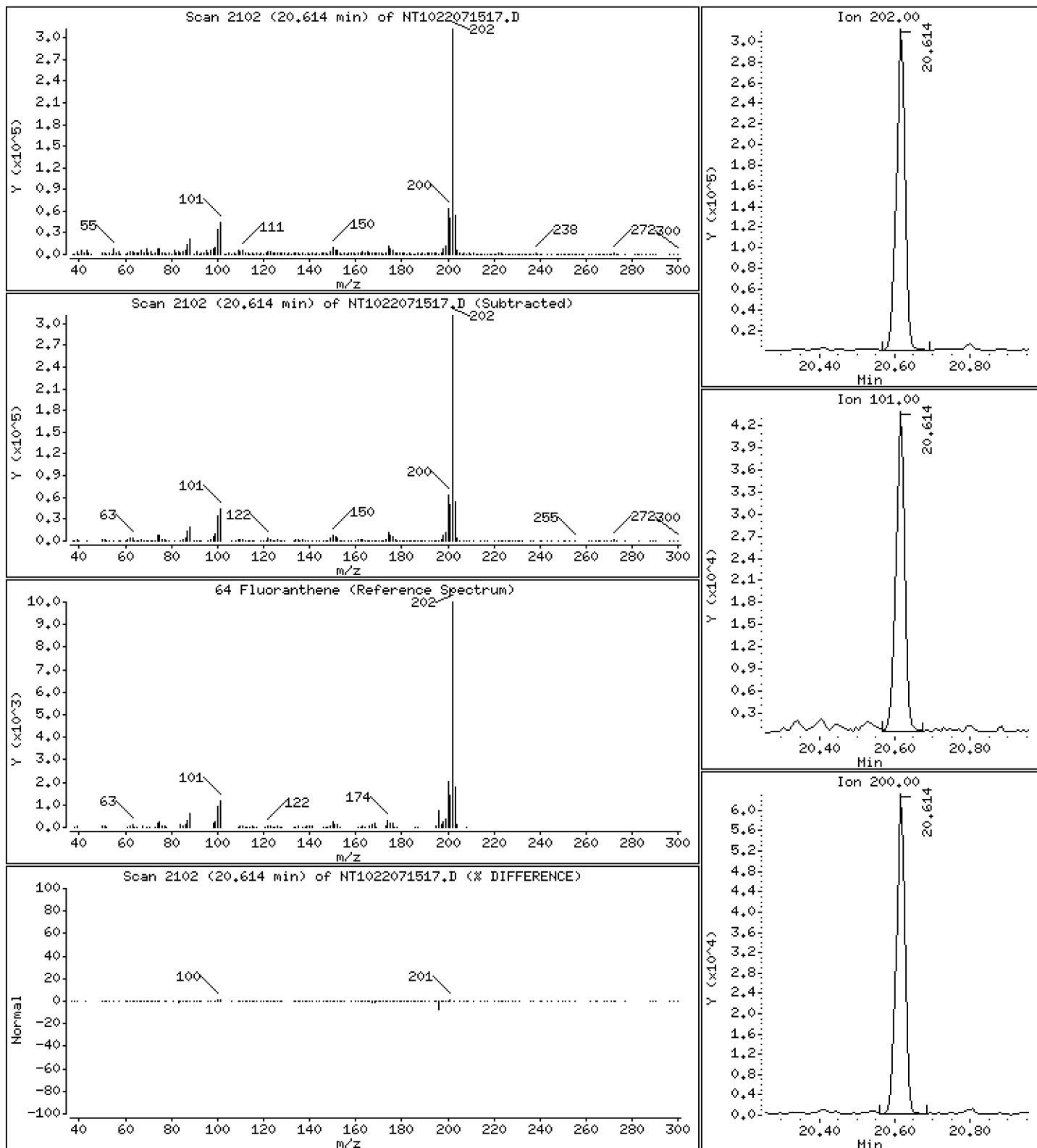
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 73,95 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

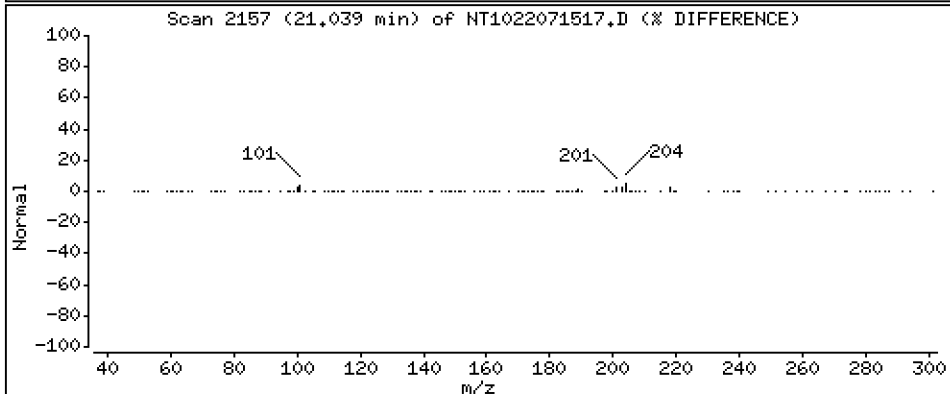
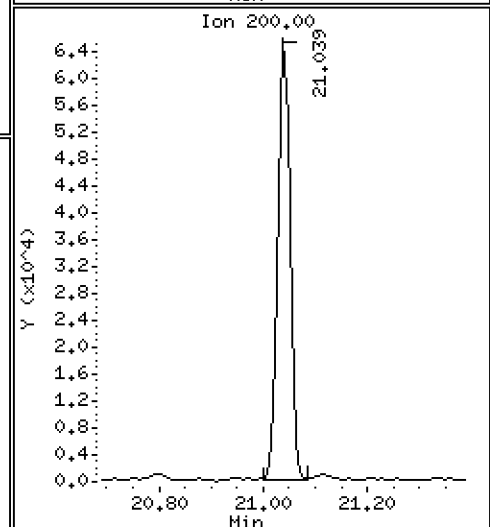
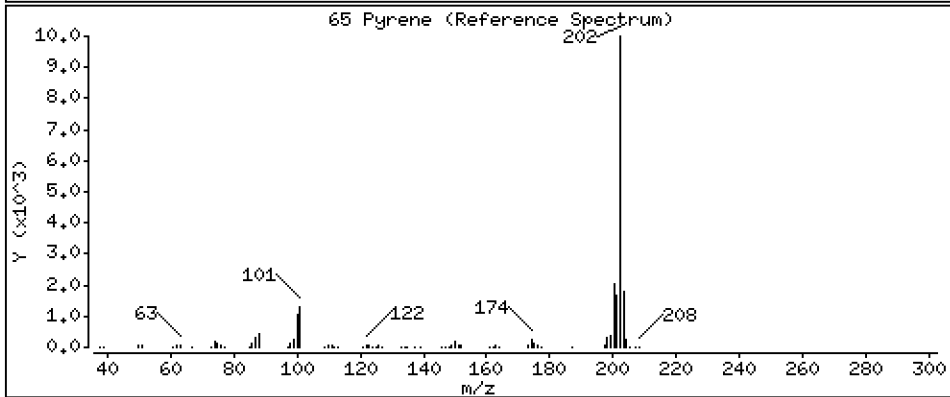
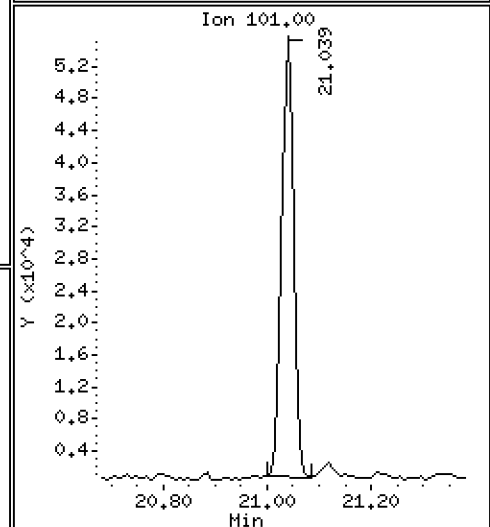
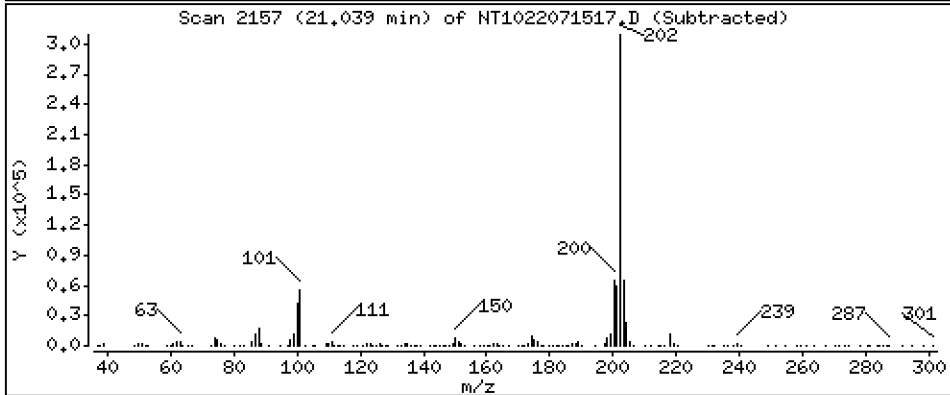
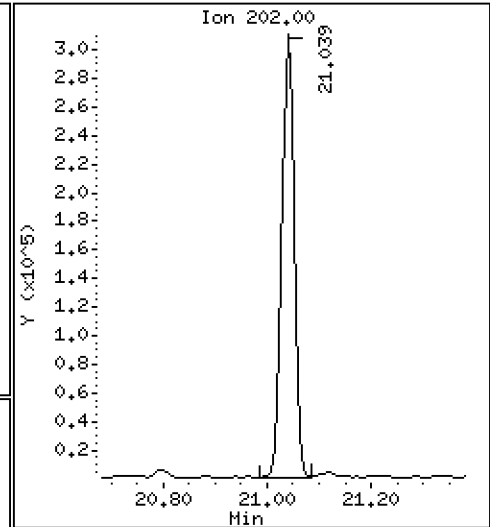
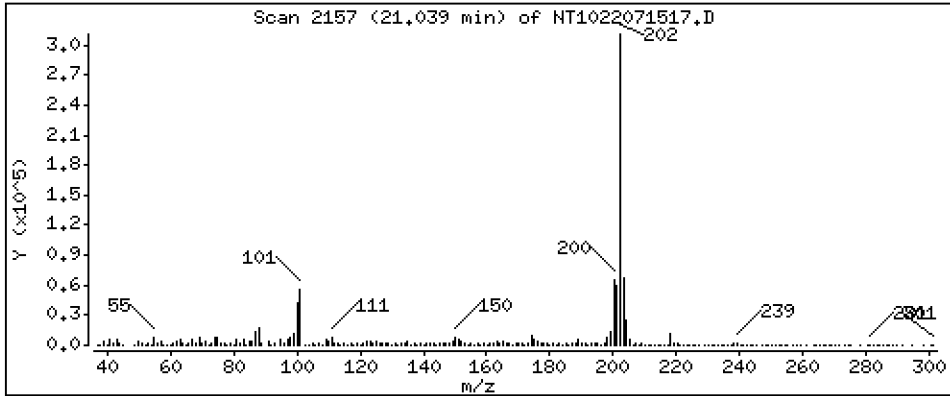
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 82,24 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 2200019-11RE1,20

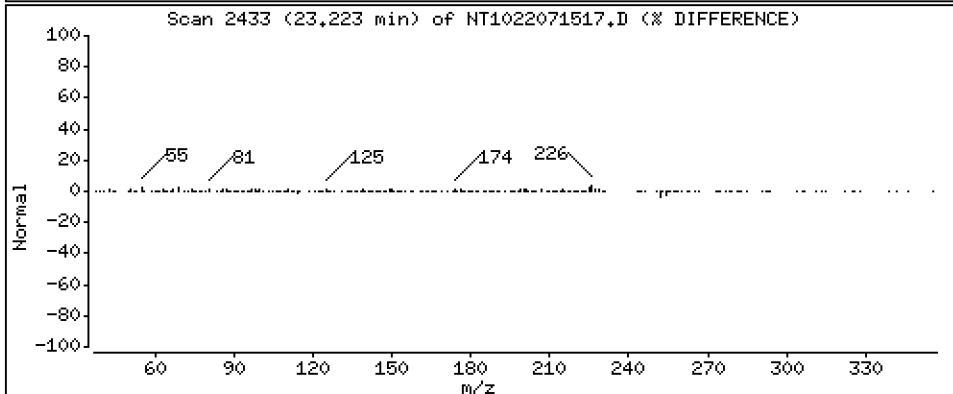
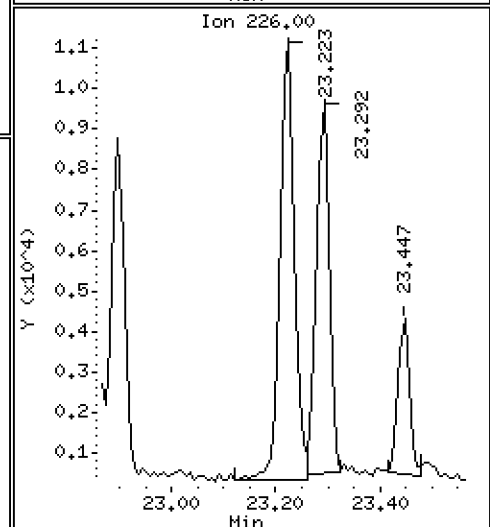
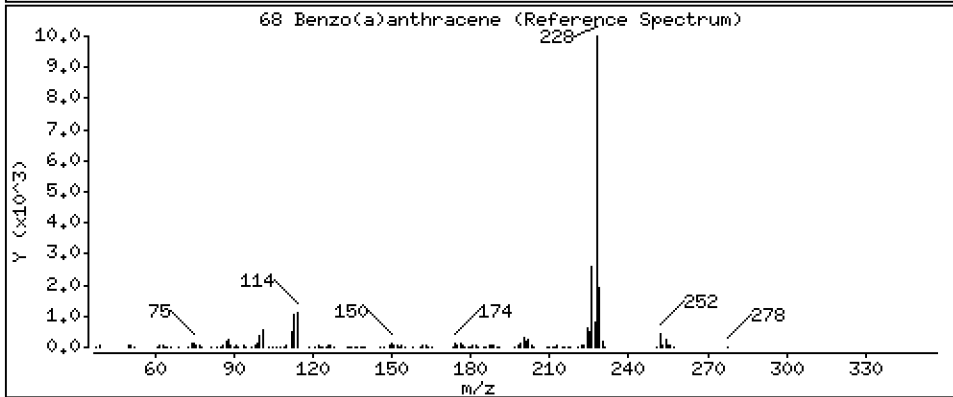
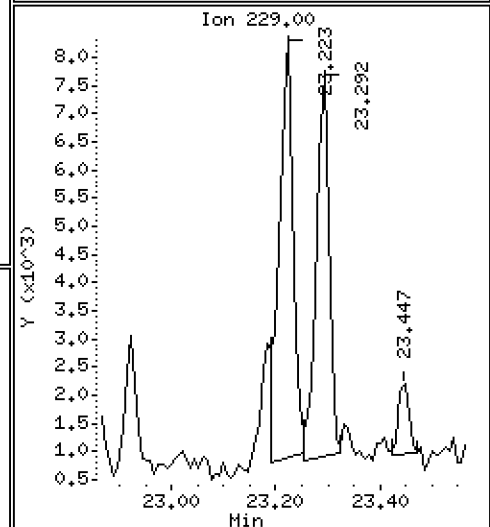
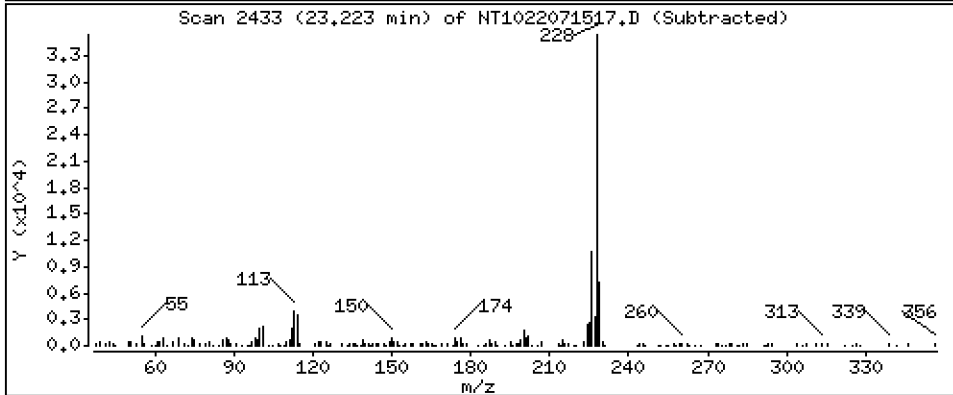
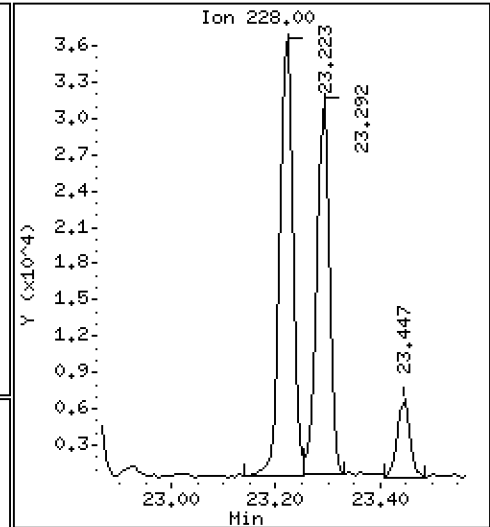
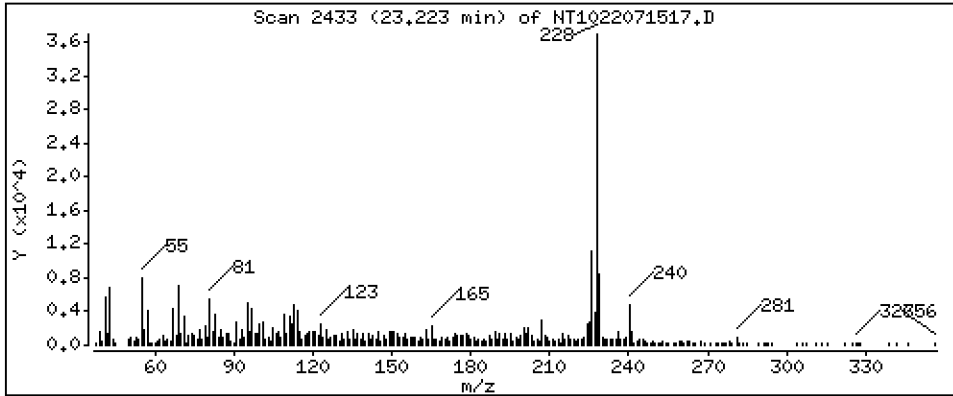
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 16,02 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 2200019-11RE1,20

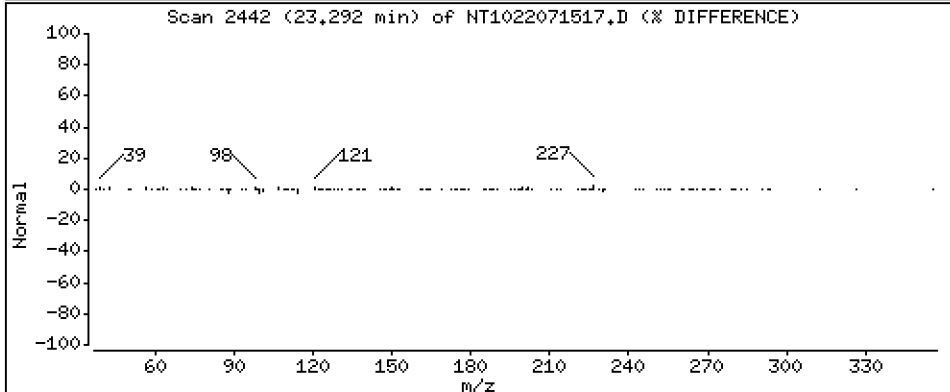
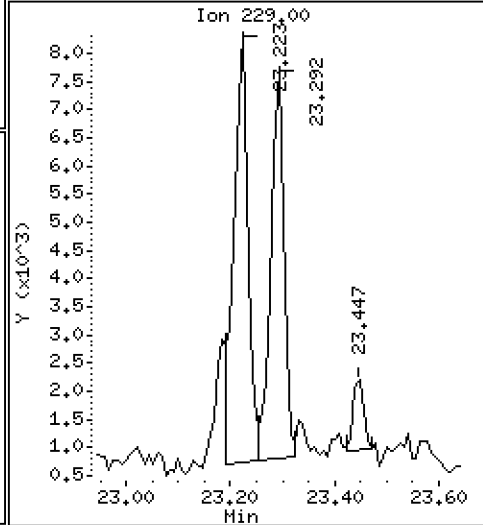
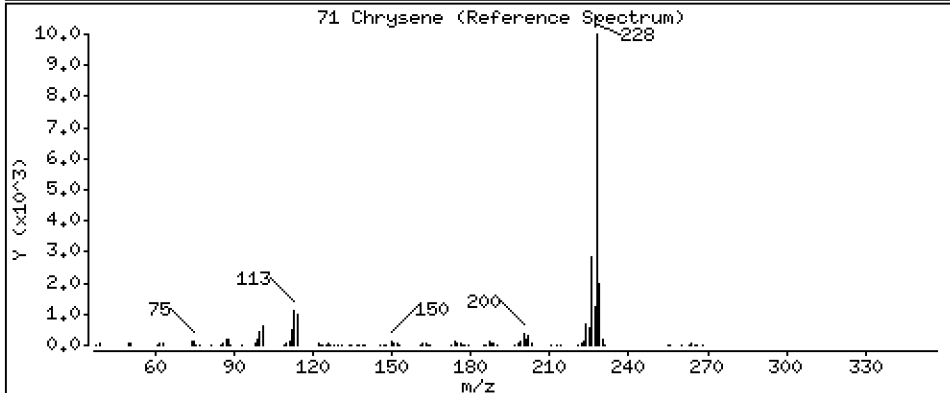
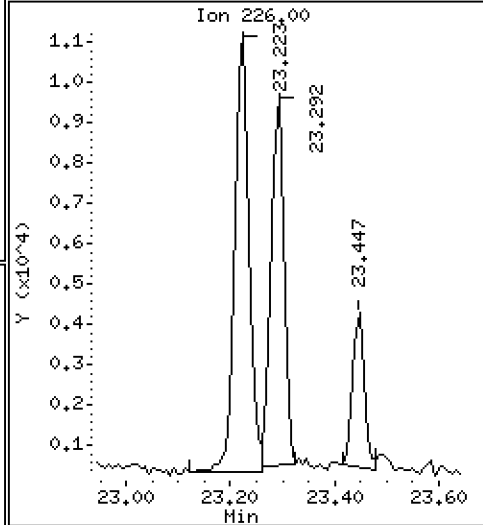
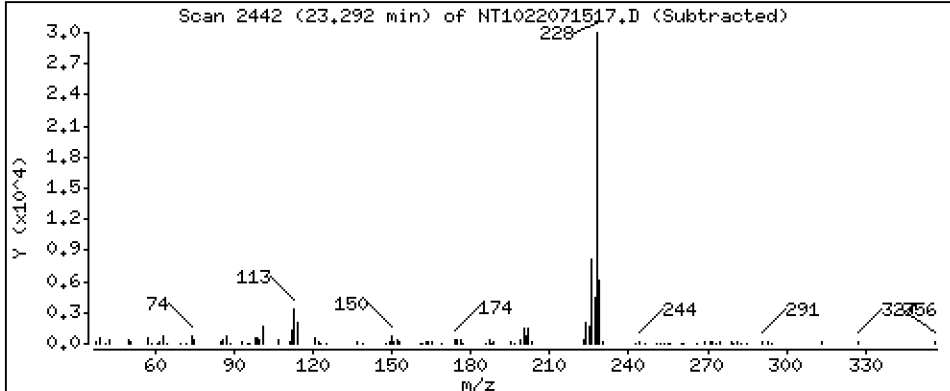
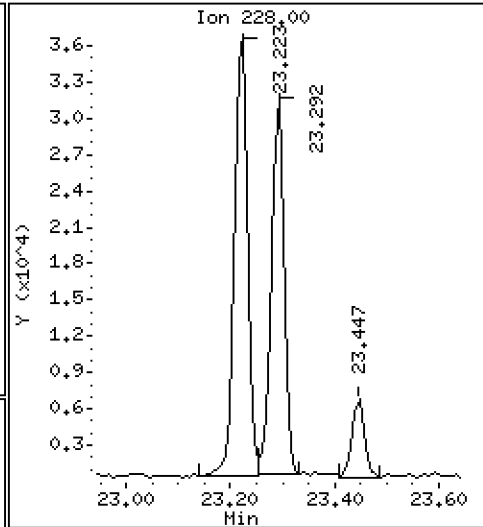
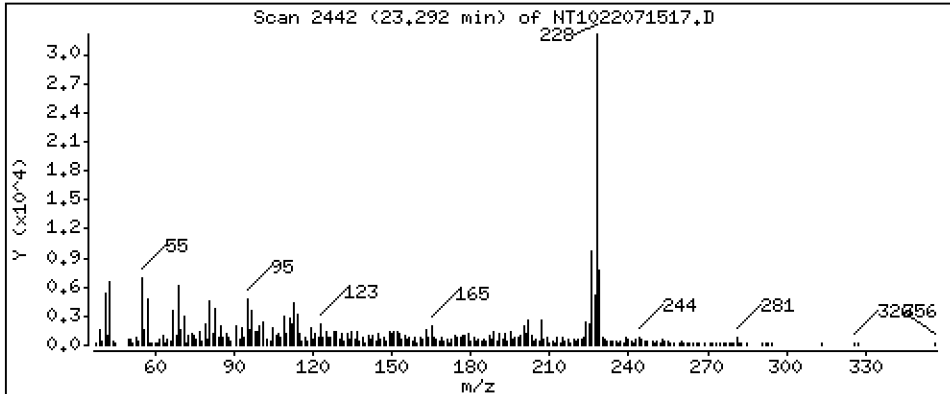
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 19,11 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

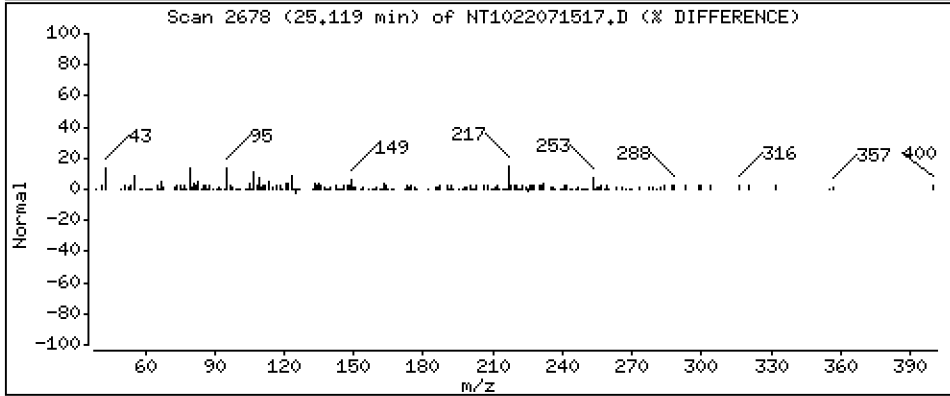
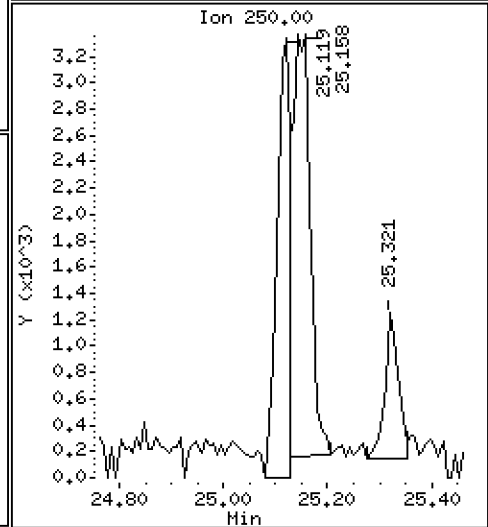
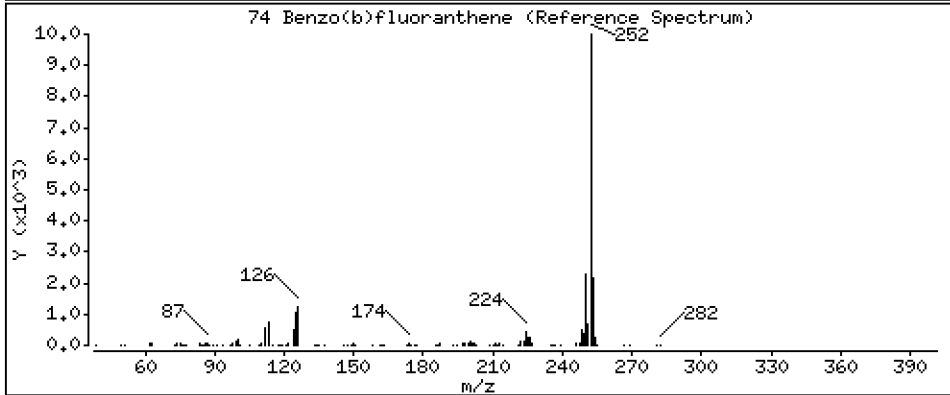
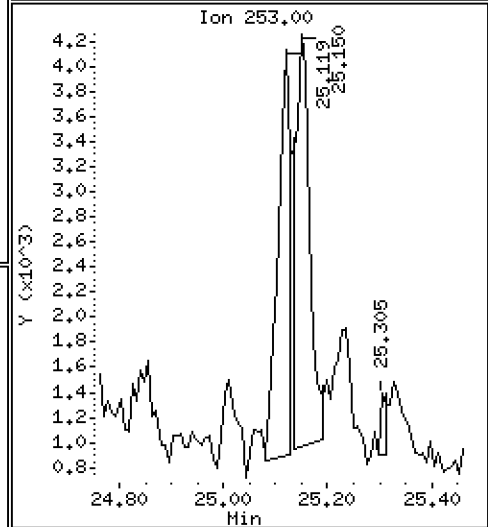
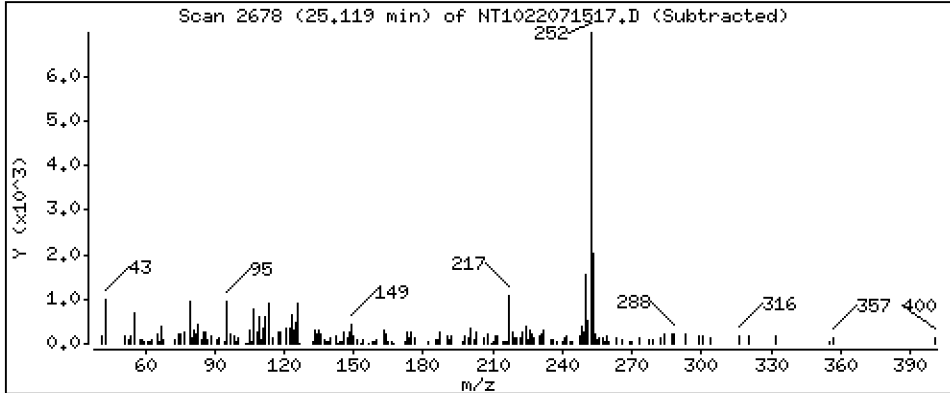
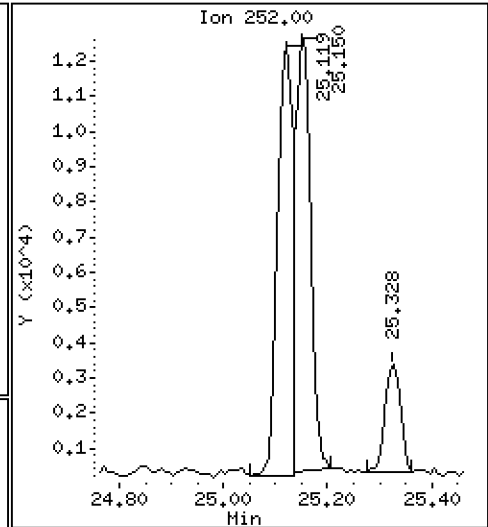
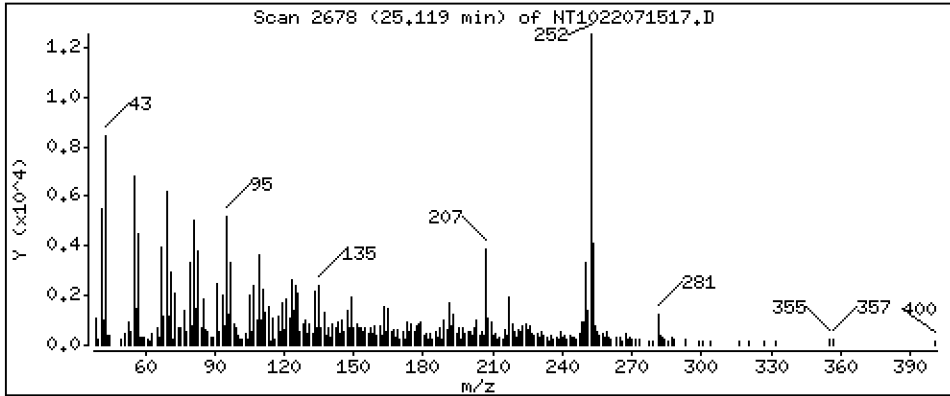
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 9,424 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

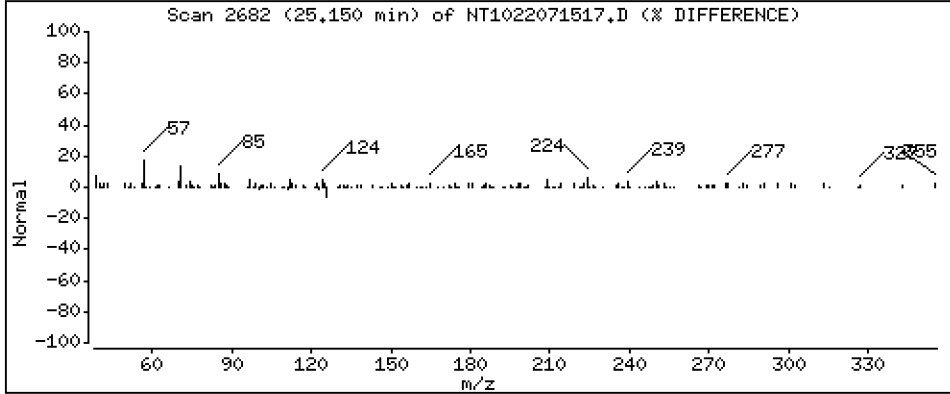
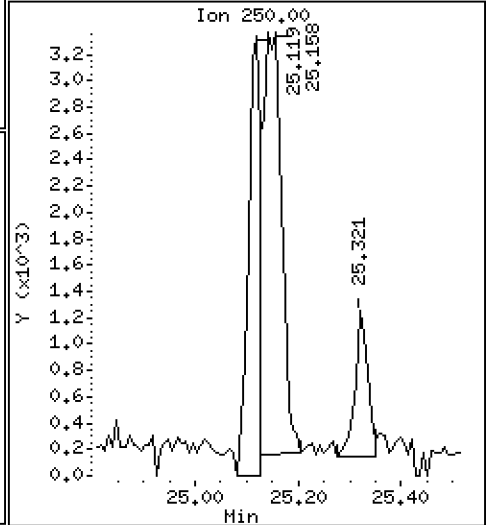
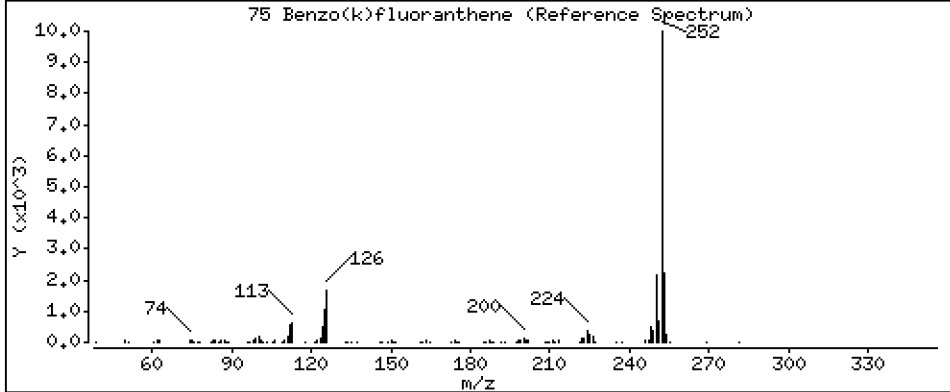
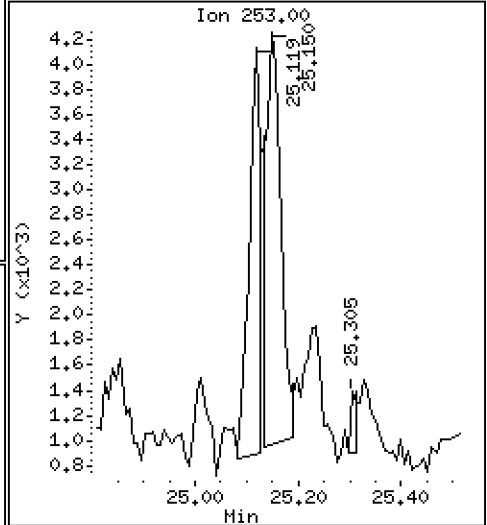
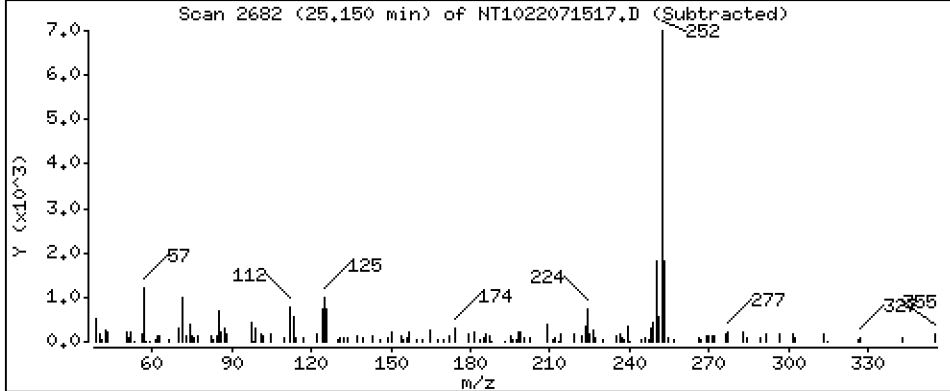
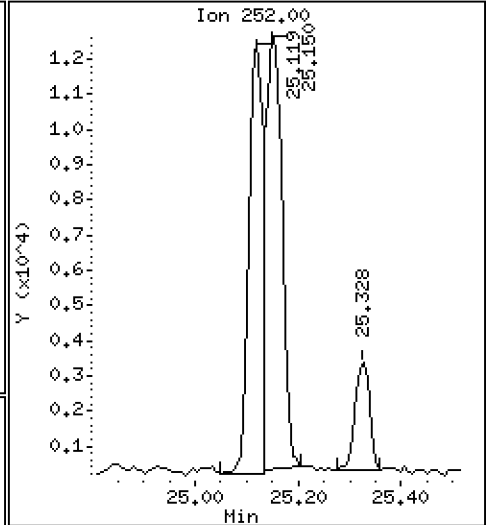
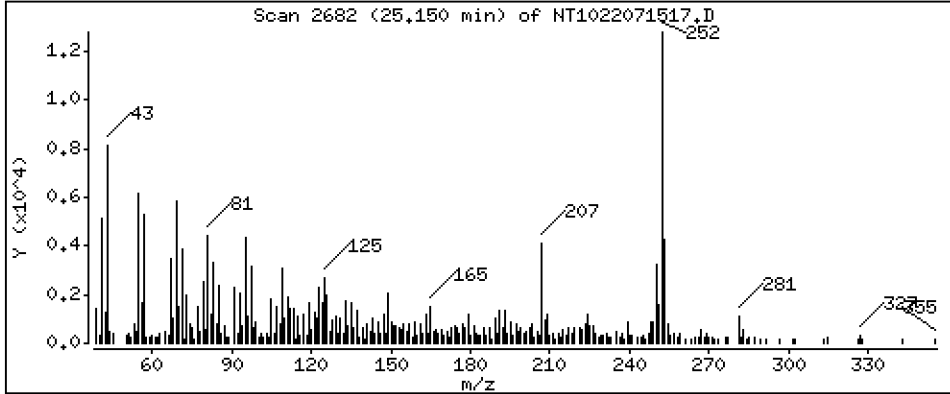
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 10,59 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

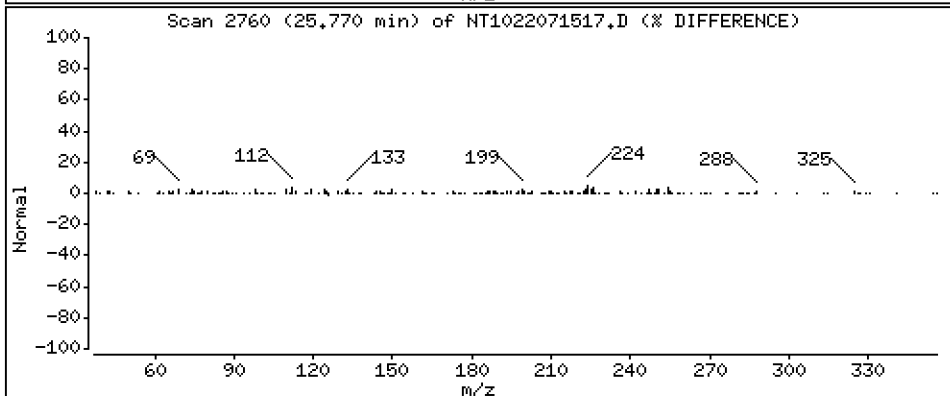
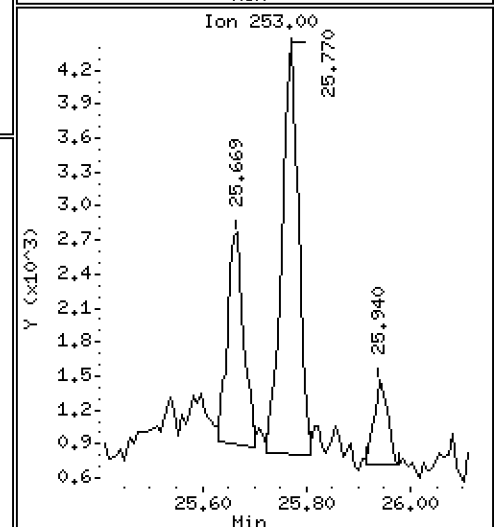
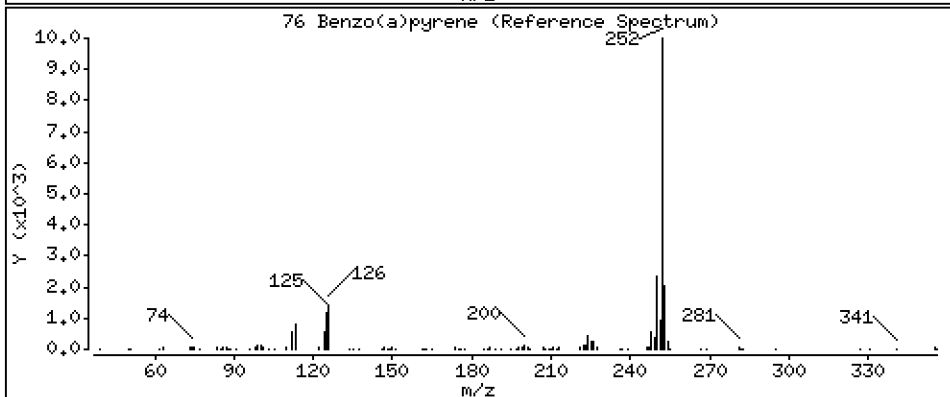
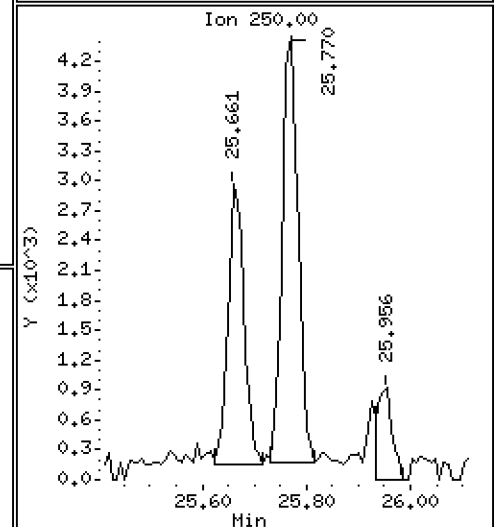
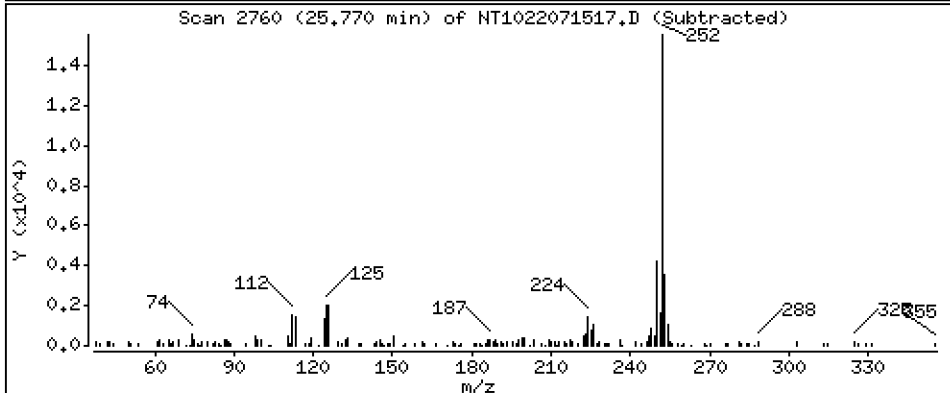
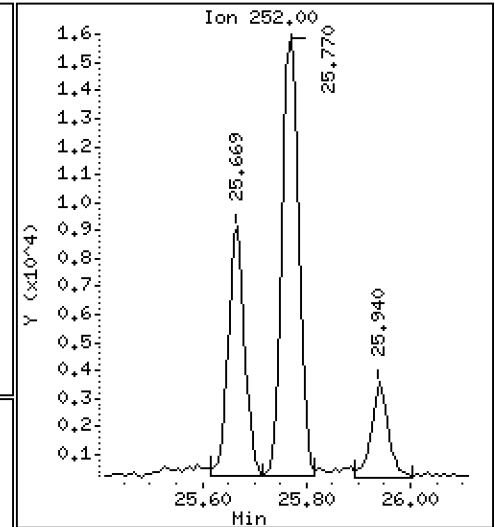
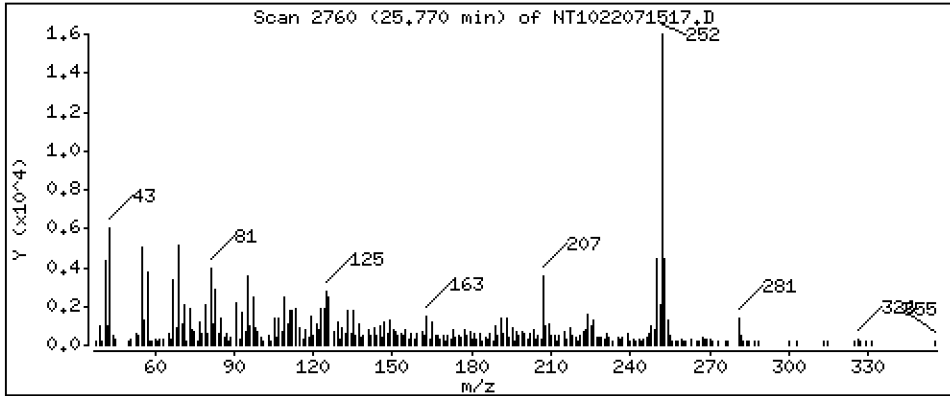
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 15,47 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

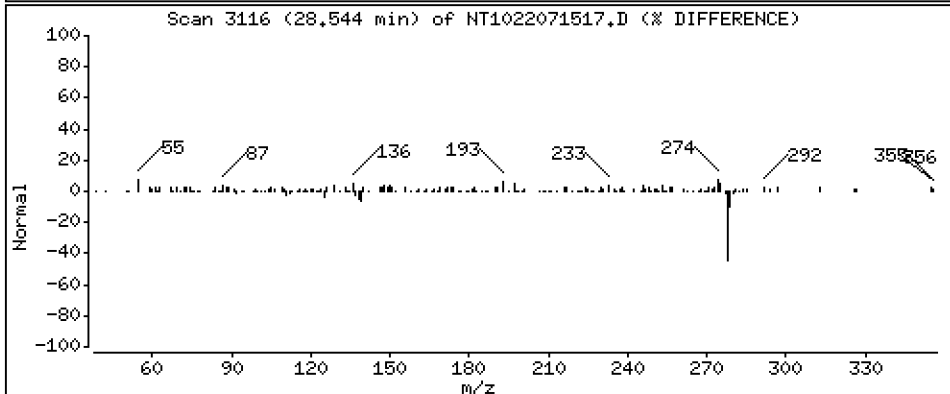
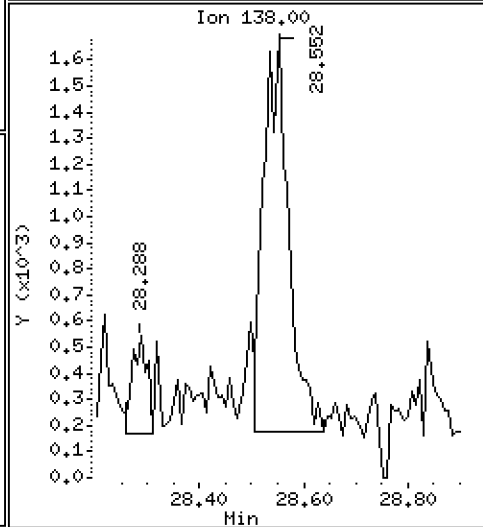
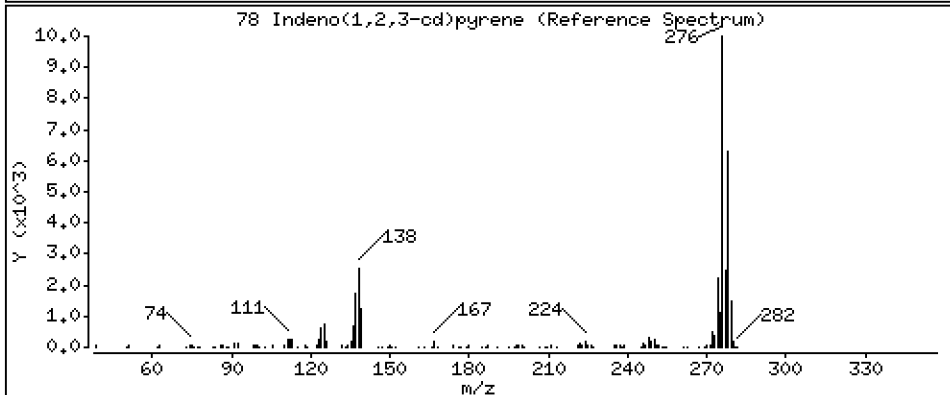
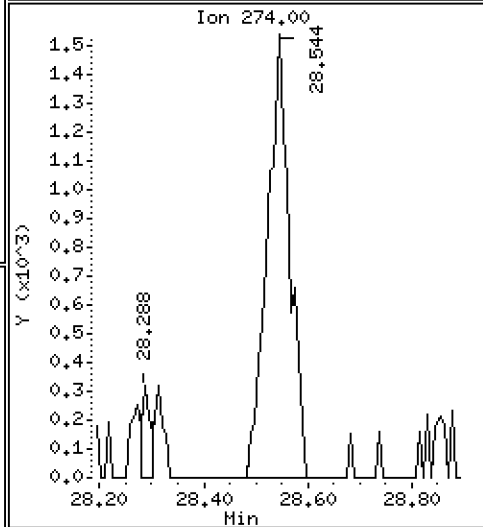
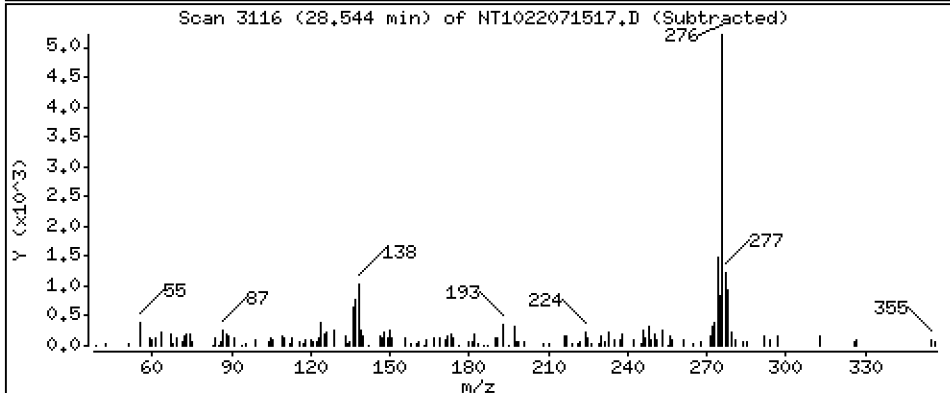
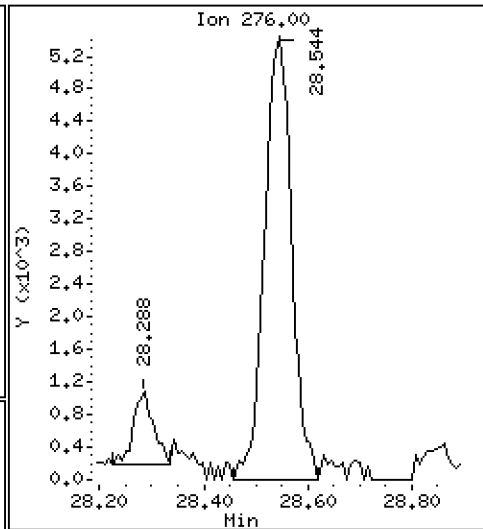
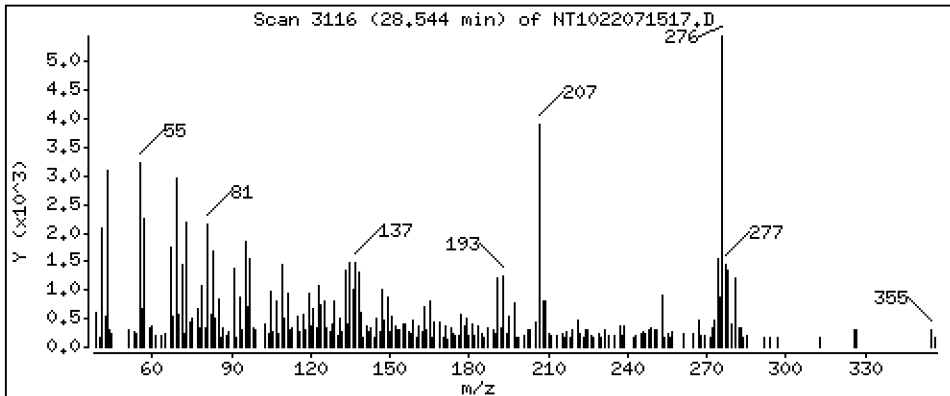
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 8,336 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

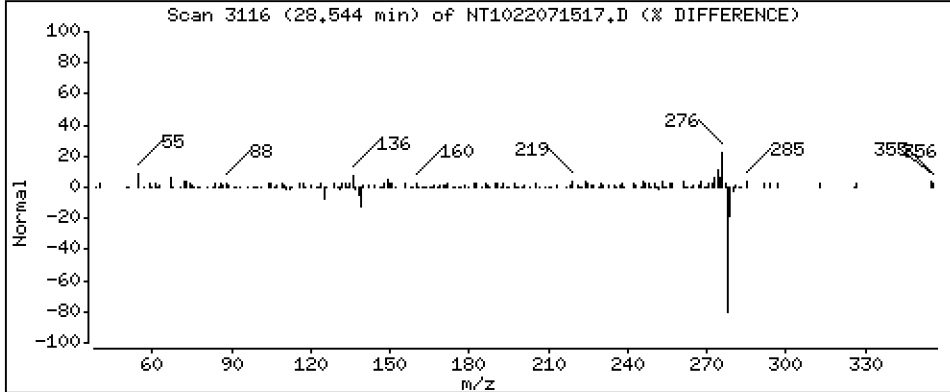
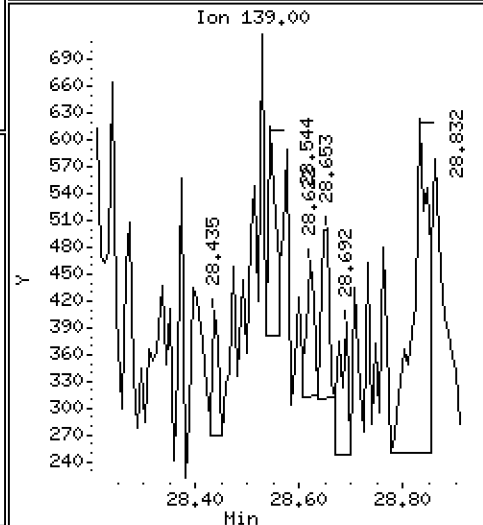
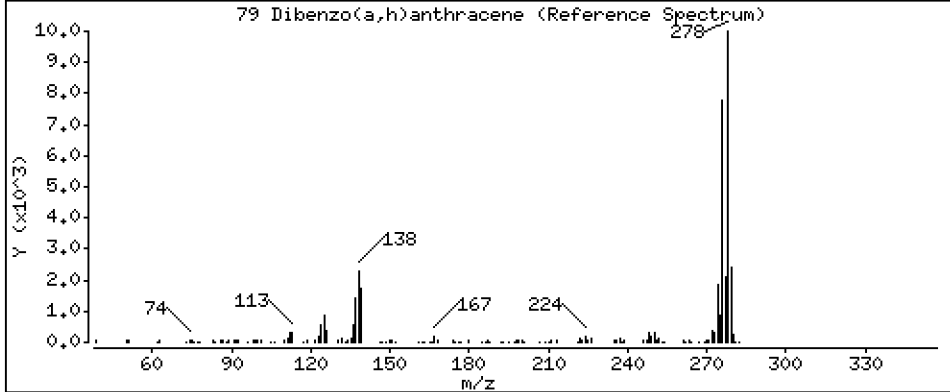
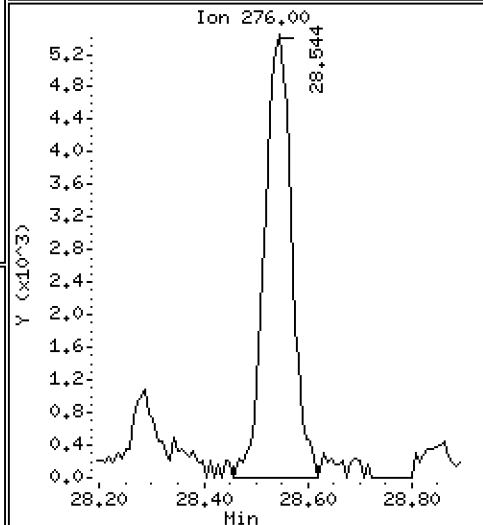
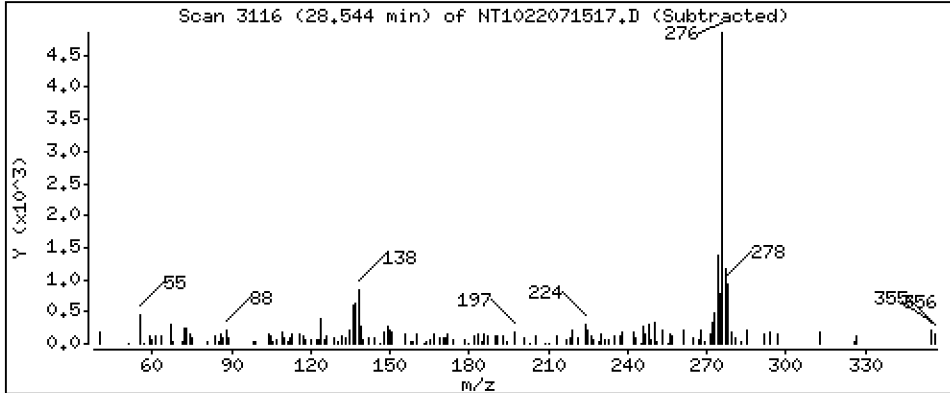
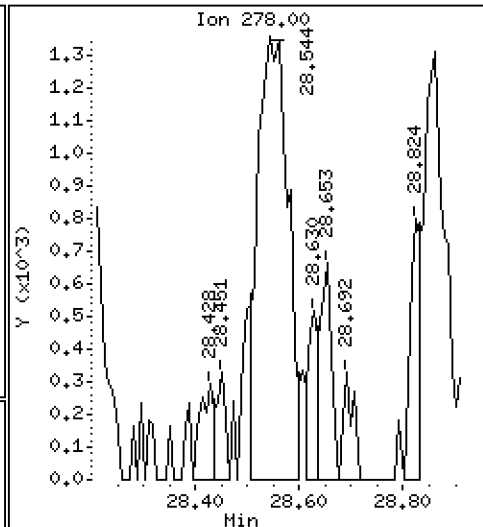
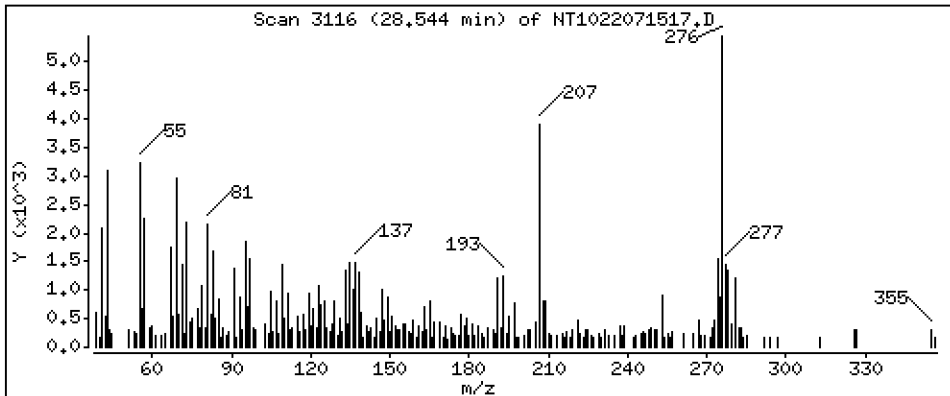
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 3,108 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

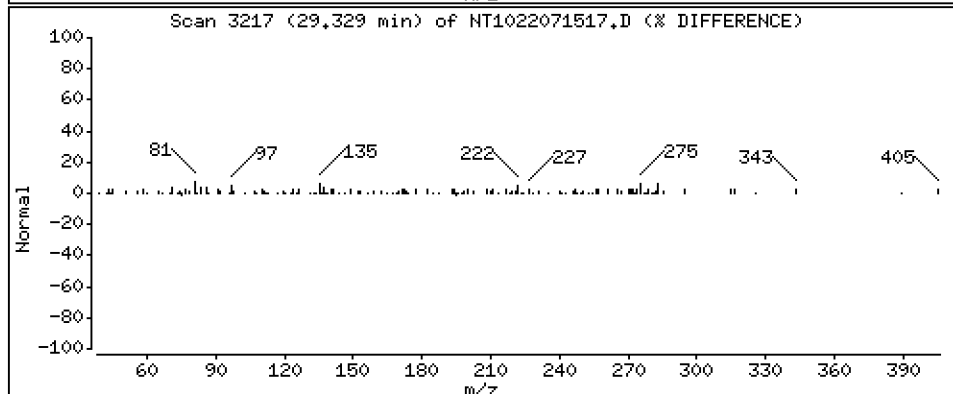
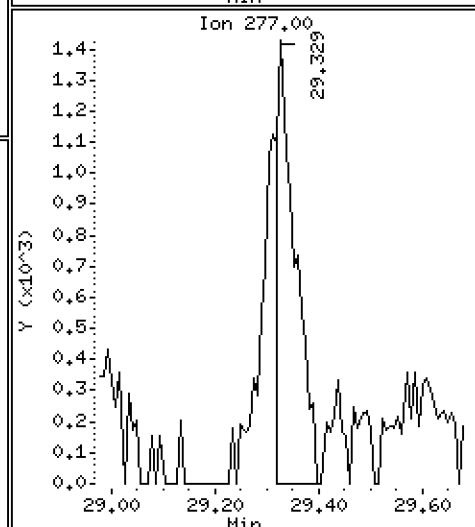
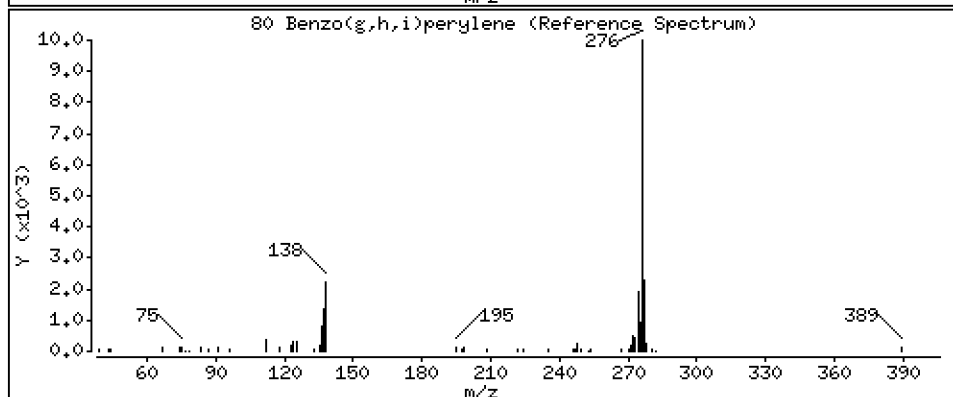
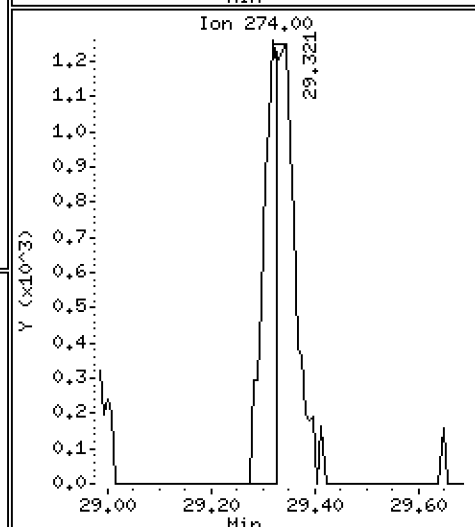
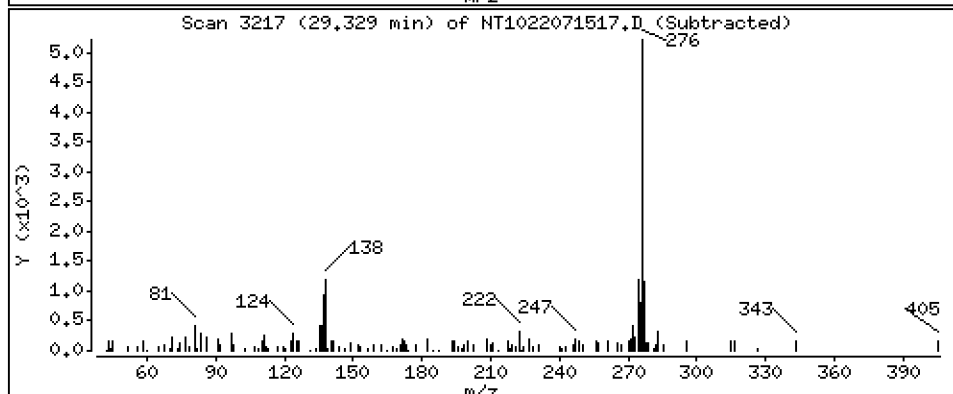
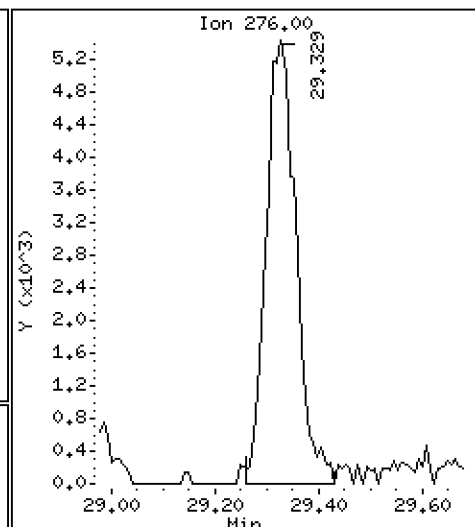
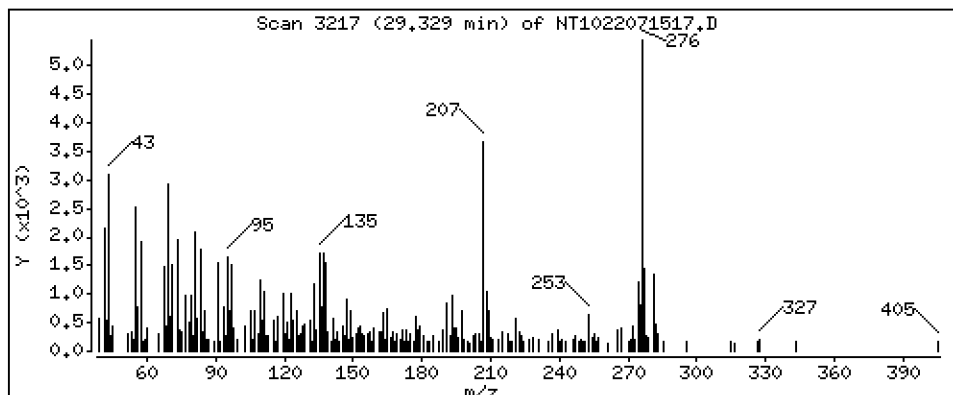
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 11,57 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

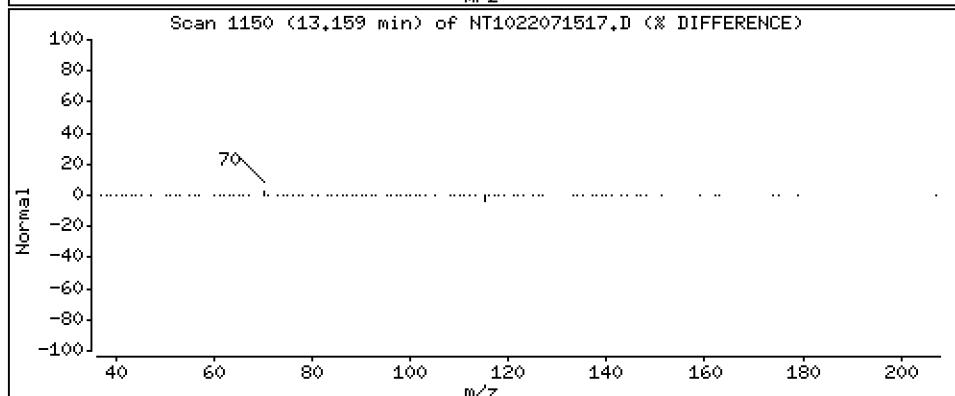
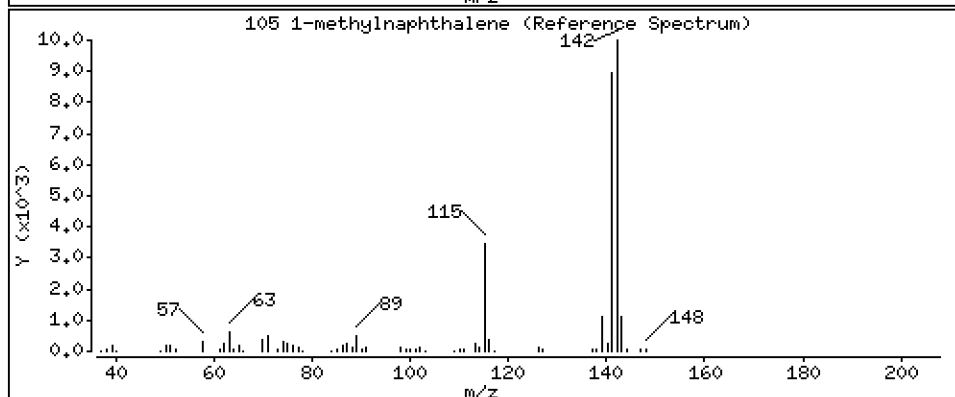
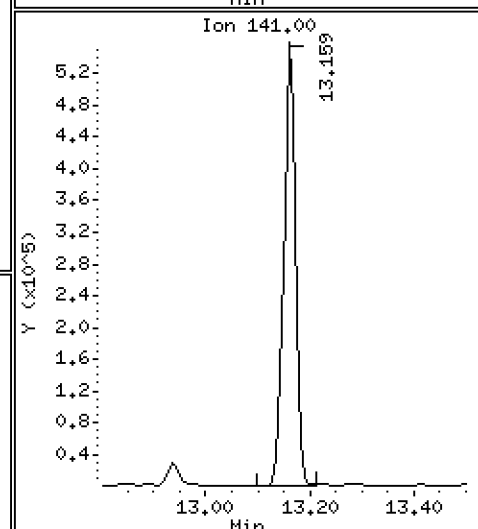
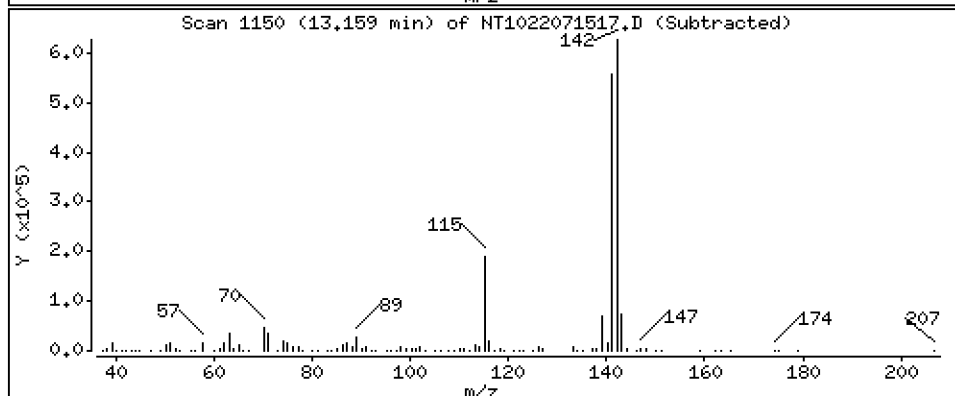
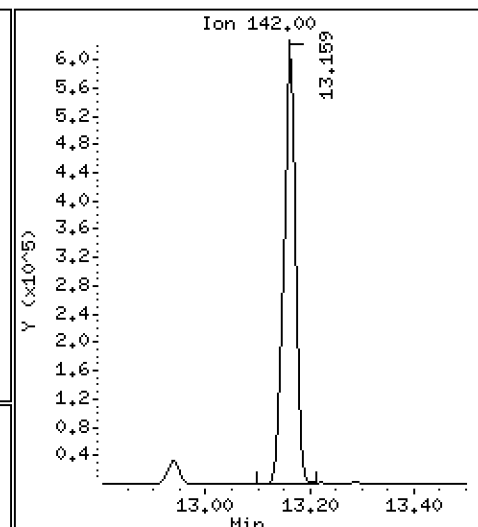
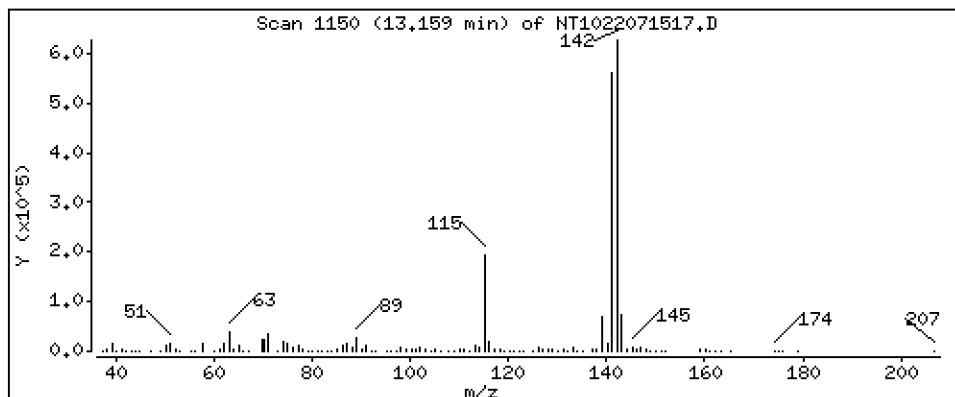
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 82,94 ug/mL



Date : 15-JUL-2022 22:36

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-11RE1,20

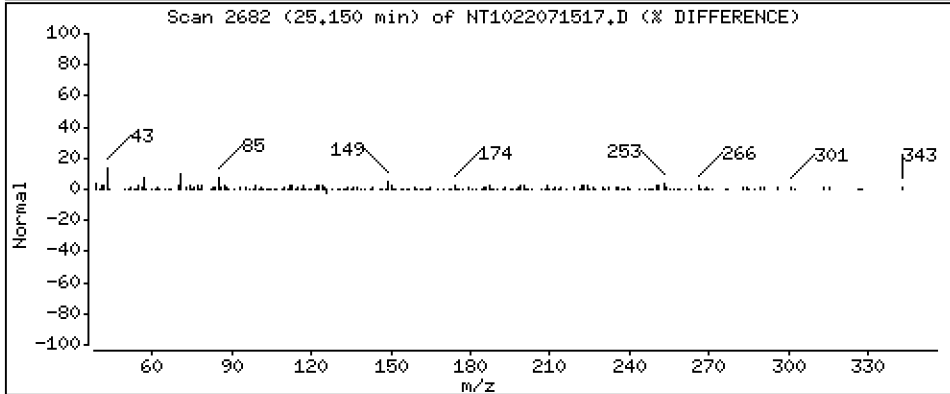
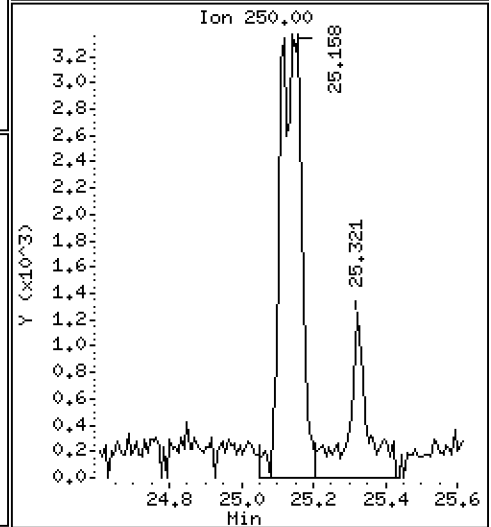
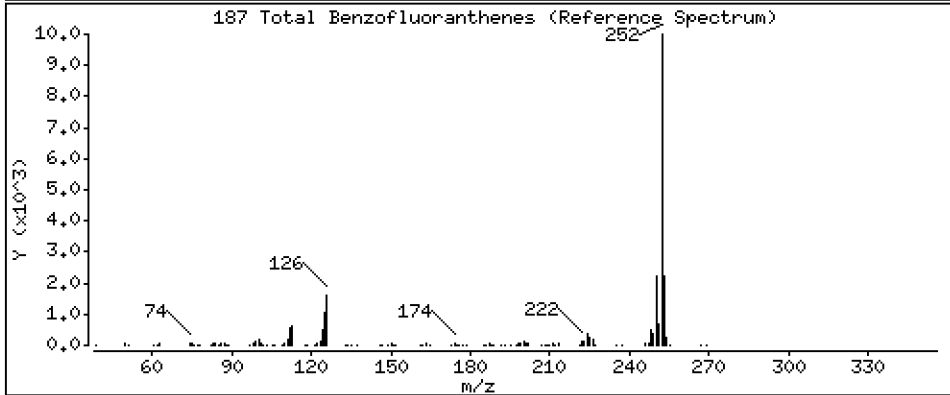
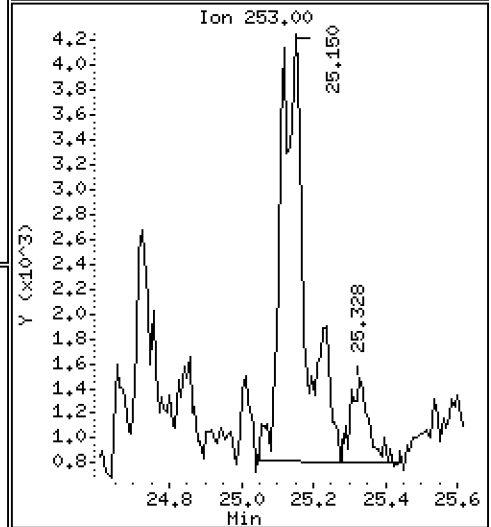
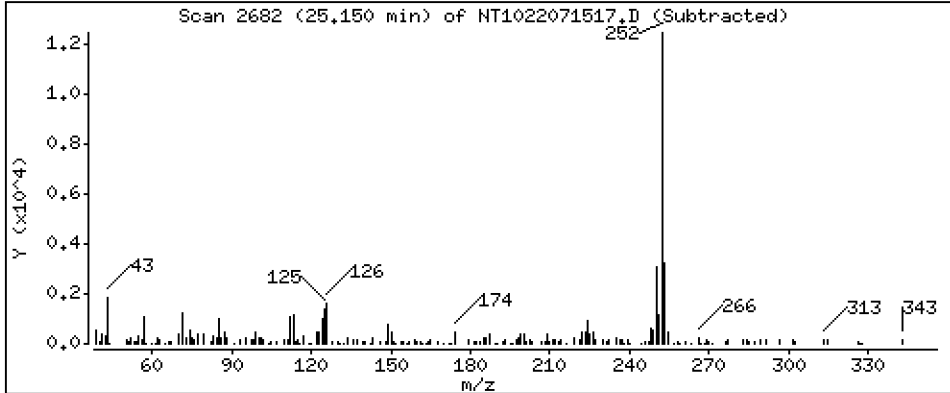
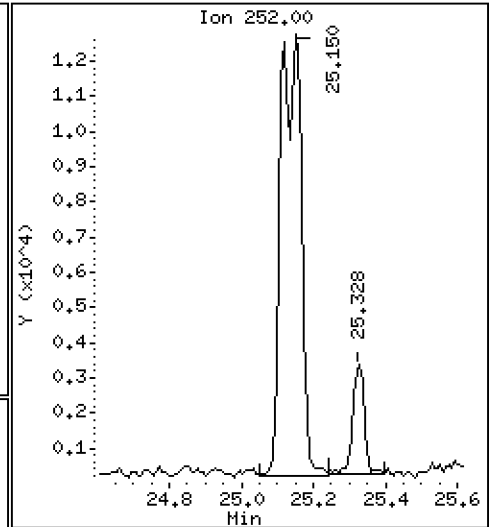
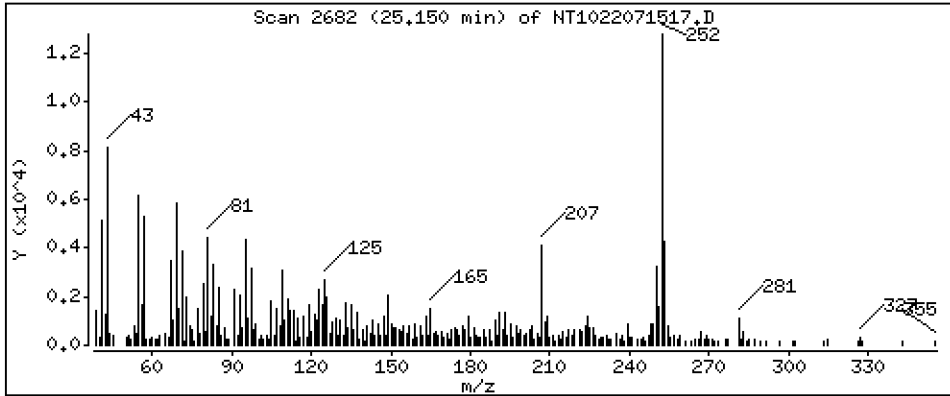
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 19,75 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071517.D
 Lab Smp Id: 22G0019-11RE1
 Inj Date : 15-JUL-2022 22:36
 Operator : VTS
 Smp Info : 22G0019-11RE1,20
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 17
 Dil Factor: 20.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.813	6.806	(0.756)	35817	0.31497	6.299
\$ 2 Phenol-d5	99		8.405	8.398	(0.933)	40133	0.23786	4.757
3 Phenol	94		Compound Not Detected.					
\$ 5 2-Chlorophenol-d4	132		8.660	8.652	(0.961)	40260	0.34746	6.949
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.008	9.001	(1.000)	311417	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.365	9.366	(1.040)	16018	0.22435	4.487
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.815	9.793	(1.090)	3524	0.03638	0.7275
\$ 18 Nitrobenzene-d5	82		10.103	10.095	(0.879)	21085	0.21537	4.307
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.496	11.488	(1.000)	920085	4.00000	
28 Naphthalene	128		11.534	11.535	(1.003)	152488	0.64757	12.95
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		12.934	12.927	(1.125)	47501	0.20297	4.059(M)
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.716	13.716	(0.907)	48691	0.26425	5.285
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152		14.807	14.800	(0.980)	35116	0.14754	2.951
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.117	15.109	(1.000)	407175	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.186	15.179	(1.005)	90480	0.76408	15.28
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.511	15.511	(1.026)	31859	0.16929	3.386
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		16.222	16.223	(1.073)	91378	0.40636	8.127
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.770	16.762	(1.109)	5737	0.31255	6.251
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.161	18.161	(1.000)	700637	4.00000	
60 Phenanthrene	178		18.215	18.207	(1.003)	438531	2.38240	47.65
61 Anthracene	178		18.308	18.300	(1.008)	140527	0.71640	14.33
62 Carbazole	167		18.648	18.641	(1.027)	25080	0.13859	2.772
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.613	20.606	(0.887)	491021	3.69753	73.95
65 Pyrene	202		21.039	21.031	(0.905)	480894	4.11177	82.24
\$ 66 Terphenyl-d14	244		21.333	21.326	(0.918)	28410	0.44334	8.867
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.222	23.215	(0.999)	62312	0.80080	16.02
* 69 Chrysene-d12	240		23.245	23.246	(1.000)	183630	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.292	23.292	(1.002)	49604	0.95527	19.11
72 bis(2-Ethylhexyl)phthalate	149							
* 134 Di-n-octylphthalate-d4	153		24.306	24.306	(1.000)	317591	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.119	25.112	(0.970)	25414	0.47118	9.424
75 Benzo(k)fluoranthene	252		25.150	25.158	(0.971)	27456	0.52937	10.59
76 Benzo(a)pyrene	252		25.769	25.762	(0.995)	34139	0.77335	15.47
* 77 Perylene-d12	264		25.893	25.878	(1.000)	119097	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.544	28.544	(1.102)	19645	0.41679	8.336
79 Dibenzo(a,h)anthracene	278		28.544	28.560	(1.102)	5608	0.15542	3.108
80 Benzo(g,h,i)perylene	276		29.328	29.329	(1.133)	21803	0.57868	11.57
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.159	13.151	(1.145)	953499	4.14697	82.94
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252		25.150	25.112	(0.971)	49658	0.98742	19.75
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071517.D Calibration Time: 12:41
 Lab Smp Id: 22G0019-11RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	311417	54.52
27 Naphthalene-d8	649654	324827	1299308	920085	41.63
42 Acenaphthene-d10	370460	185230	740920	407175	9.91
59 Phenanthrene-d10	647298	323649	1294596	700637	8.24
69 Chrysene-d12	221116	110558	442232	183630	-16.95
134 Di-n-octylphthala	319144	159572	638288	317591	-0.49
77 Perylene-d12	105234	52617	210468	119097	13.17

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.01	0.08
27 Naphthalene-d8	11.49	10.99	11.99	11.50	0.06
42 Acenaphthene-d10	15.11	14.61	15.61	15.12	0.05
59 Phenanthrene-d10	18.16	17.66	18.66	18.16	-0.00
69 Chrysene-d12	23.25	22.75	23.75	23.25	-0.00
134 Di-n-octylphthala	24.31	23.81	24.81	24.31	-0.00
77 Perylene-d12	25.88	25.38	26.38	25.89	0.06

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

REVIEW SUMMARY FOR FILE - NT1022071517.D

Lab ID: 22G0019-11RE1
nt10.i, ABN.m, 15-JUL-2022 22:36

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

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND

NONE				

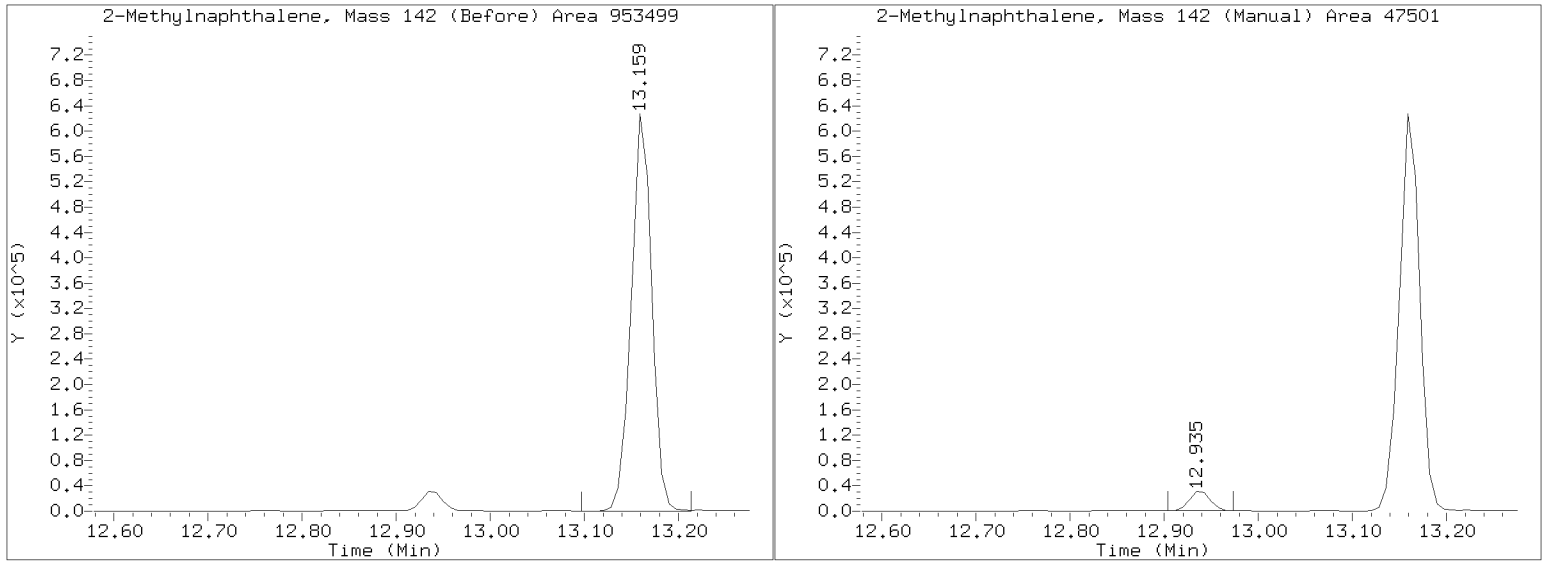
RRT check based on Ccal File: NT1022071502.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071517.D
Injection Date: 15-JUL-2022 22:36
Lab ID:22G0019-11RE1 Client ID:
Report Date: 07/16/2022 09:03





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

Laboratory: Analytical Resources, LLC
 Client: GeoEngineers
 Project: RG Haley Site-Bellingham
 Matrix: Solid Laboratory ID: 22G0019-13 A SDG: 22G0019
 Sampled: 06/29/22 12:25 Prepared: 07/07/22 10:01 File ID: NT1022071420.D
 % Solids: 69.98 Preparation: EPA 3546 (Microwave) Analyzed: 07/15/22 02:01
 Batch: BKG0069 Sequence: SKG0139 Initial/Final: 14.32 g Wet / 1 mL
 Instrument: NT10 Column: ZB-5MSi Calibration: FF00062
 Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	1	22.6		4.2	20.0
91-57-6	2-Methylnaphthalene	1	111		4.5	20.0
83-32-9	Acenaphthene	1	11.8	J	5.2	20.0
87-86-5	Pentachlorophenol	1	31.2	U	31.2	99.8
85-01-8	Phenanthrene	1	60.5		8.7	20.0
206-44-0	Fluoranthene	1	26.2	Q	6.1	20.0
56-55-3	Benzo(a)anthracene	1	15.9	J	5.9	20.0
218-01-9	Chrysene	1	26.8		6.0	20.0
205-99-2	Benzo(b)fluoranthene	1	40.5		7.0	20.0
207-08-9	Benzo(k)fluoranthene	1	13.6	J	5.0	20.0
50-32-8	Benzo(a)pyrene	1	33.7		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	14.6	U	14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	17.2	U	17.2	20.0
90-12-0	1-Methylnaphthalene	1	71.0		5.2	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.42	460	61.5	27 - 120	
Phenol-d5	748.42	428	57.2	29 - 120	
2-Chlorophenol-d4	748.42	593	79.3	31 - 120	
1,2-Dichlorobenzene-d4	498.95	482	96.6	32 - 120	
Nitrobenzene-d5	498.95	427	85.6	30 - 120	
2-Fluorobiphenyl	498.95	604	121	35 - 120	*
2,4,6-Tribromophenol	748.42	278	37.2	24 - 134	
p-Terphenyl-d14	498.95	441	88.3	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220714.6\NT1022071420.D

Date: 15-JUL-2022 02:01

Client ID:

Sample Info: 2200019-13

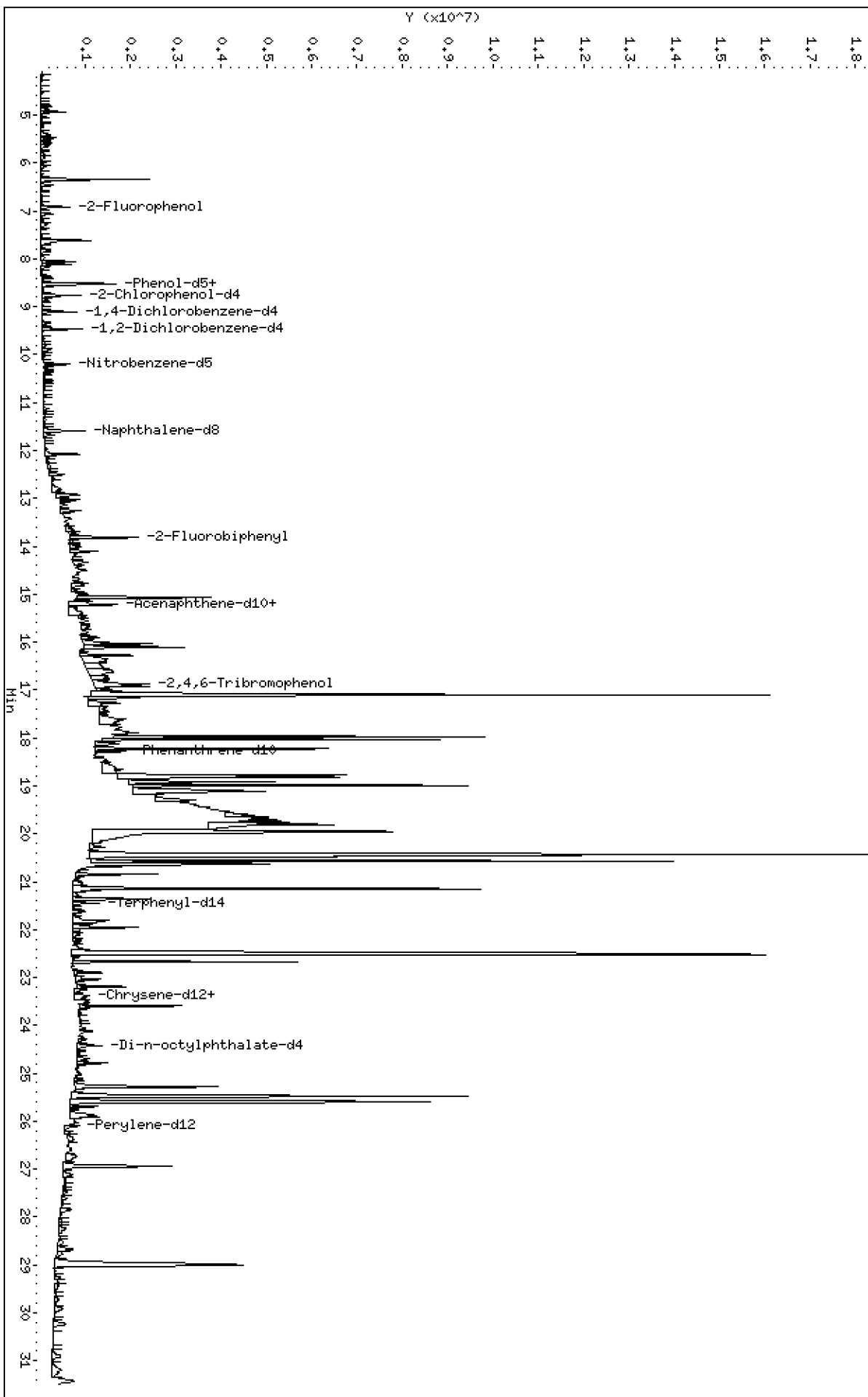
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20220714.6\NT1022071420.D



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-13

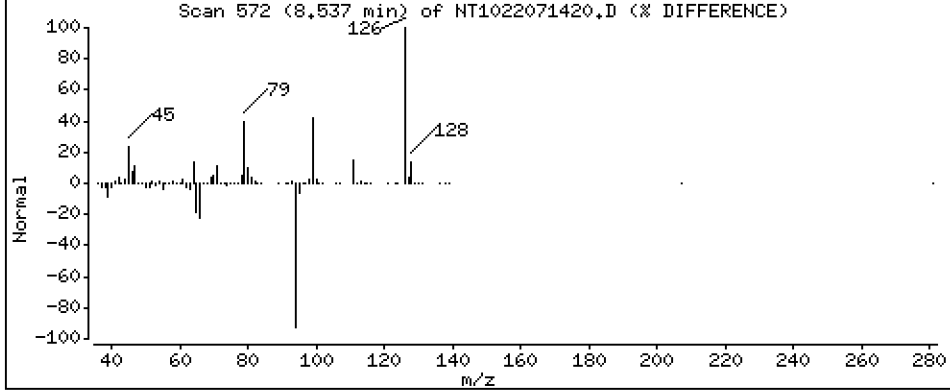
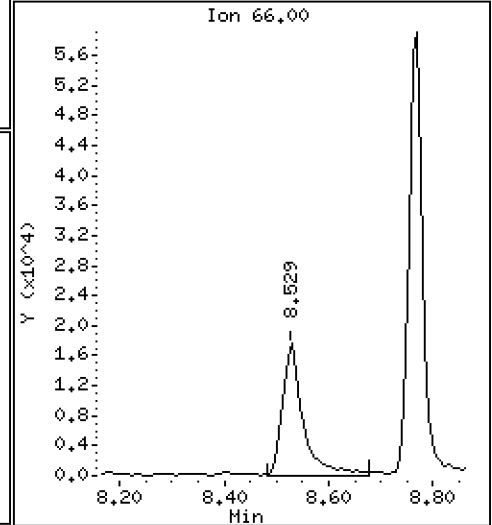
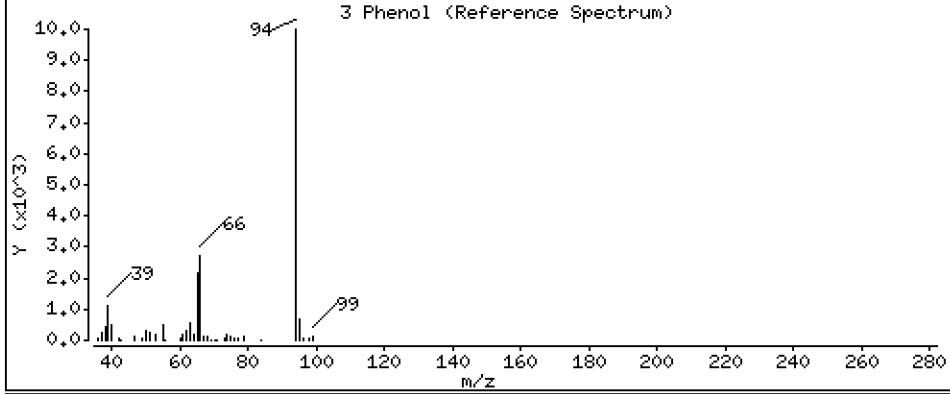
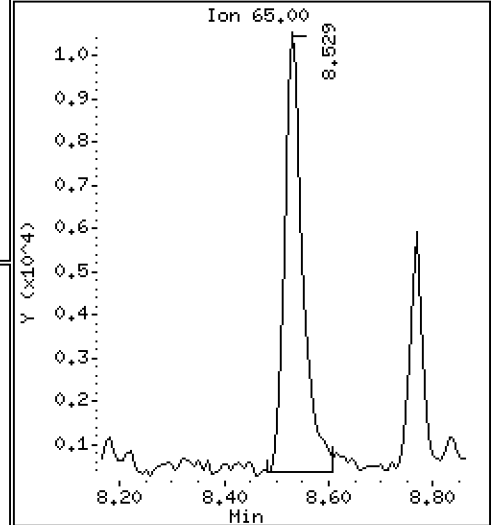
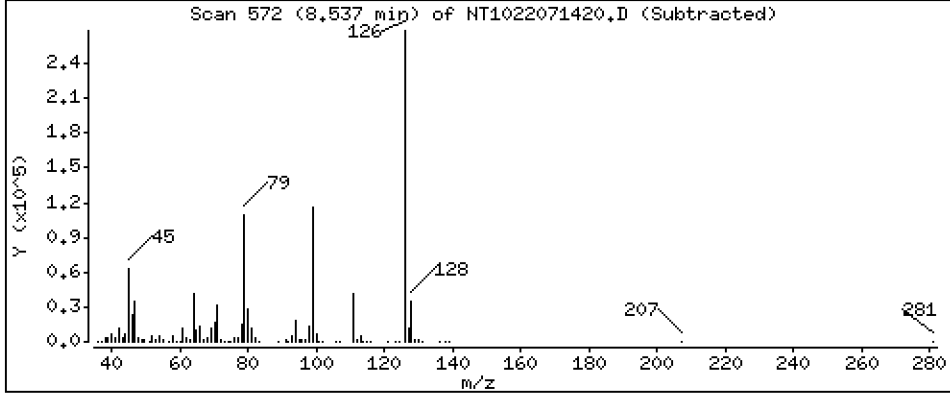
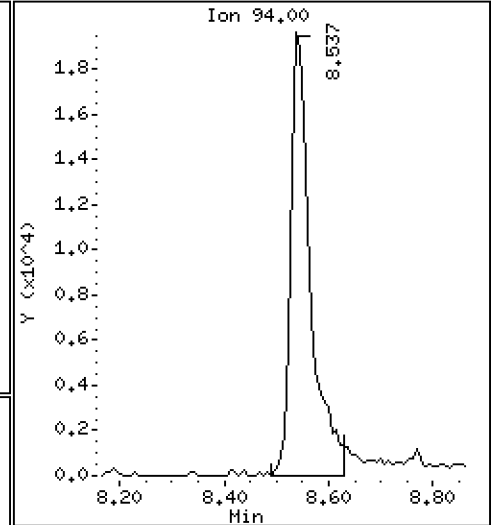
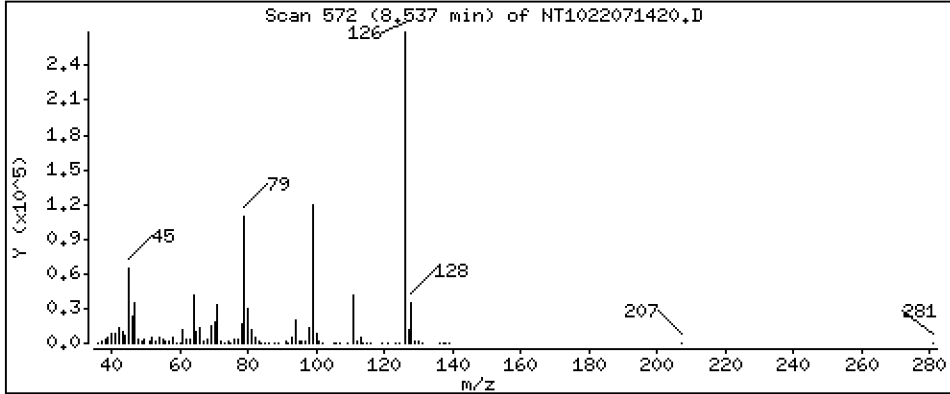
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,4733 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-13

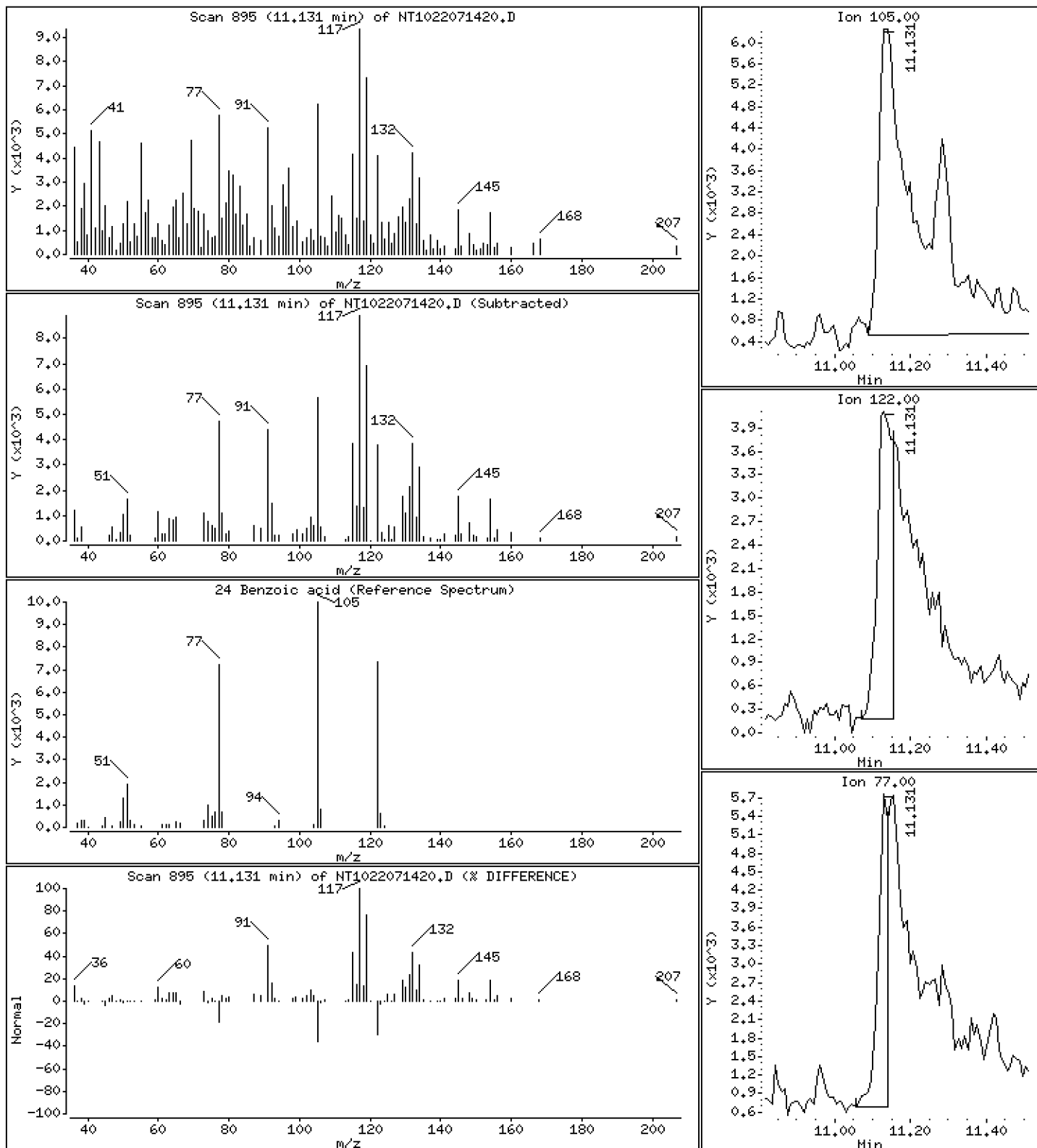
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 1.476 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-13

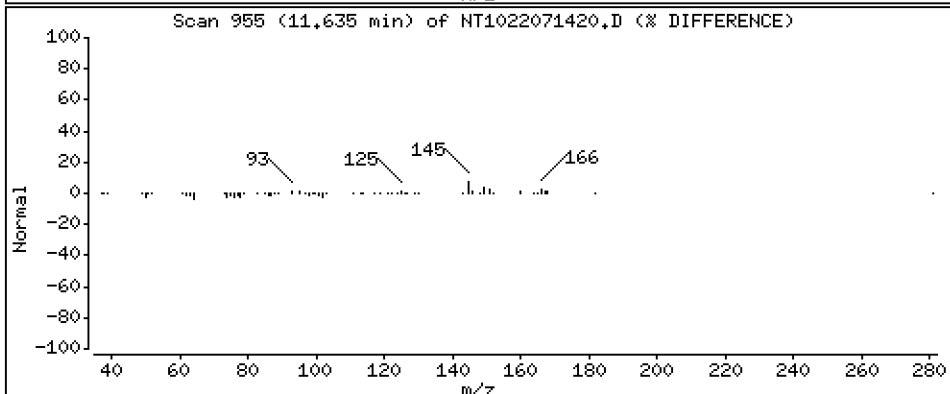
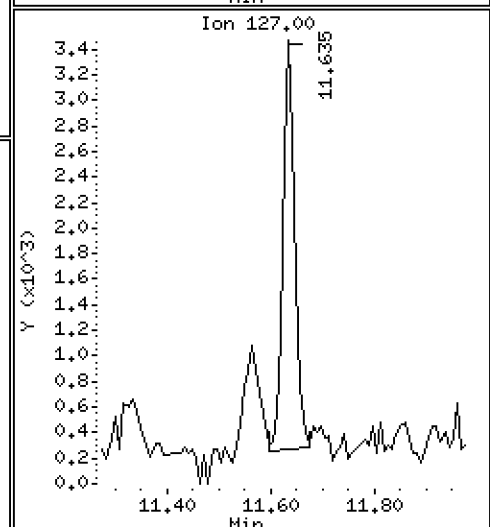
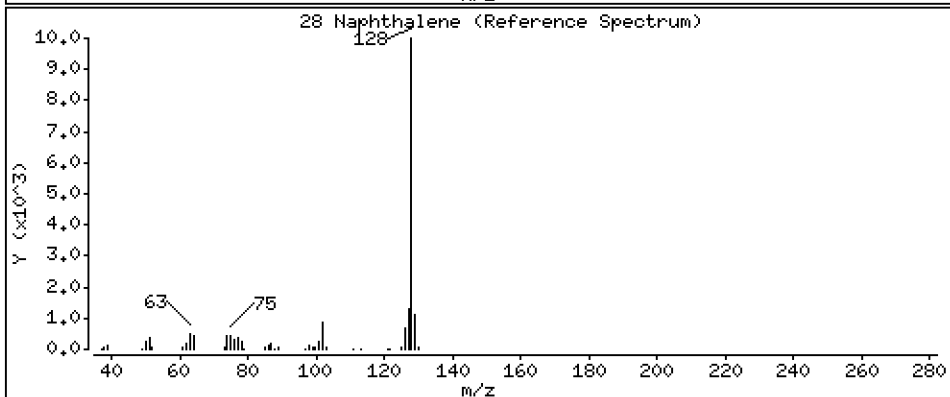
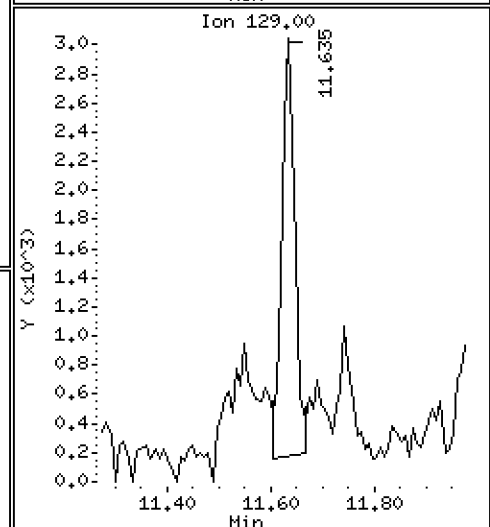
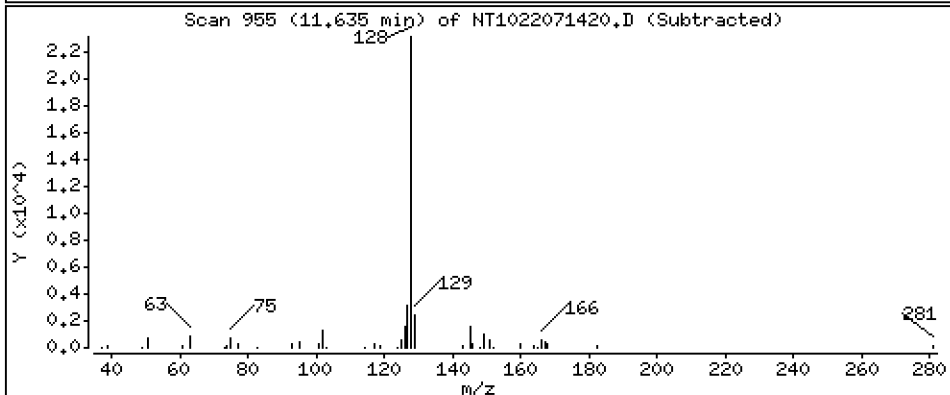
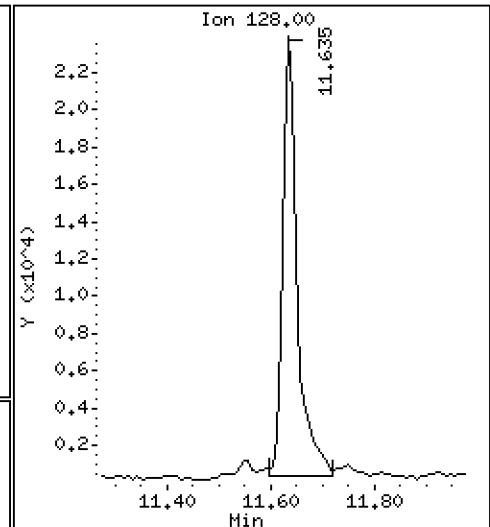
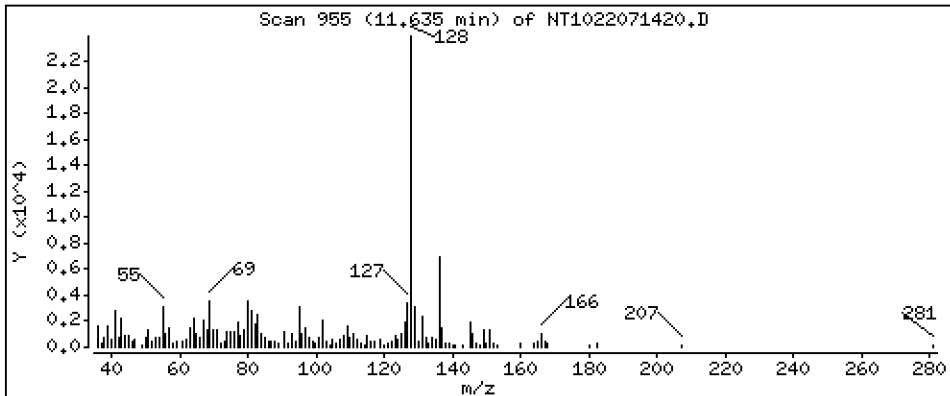
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.2266 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 2200019-13

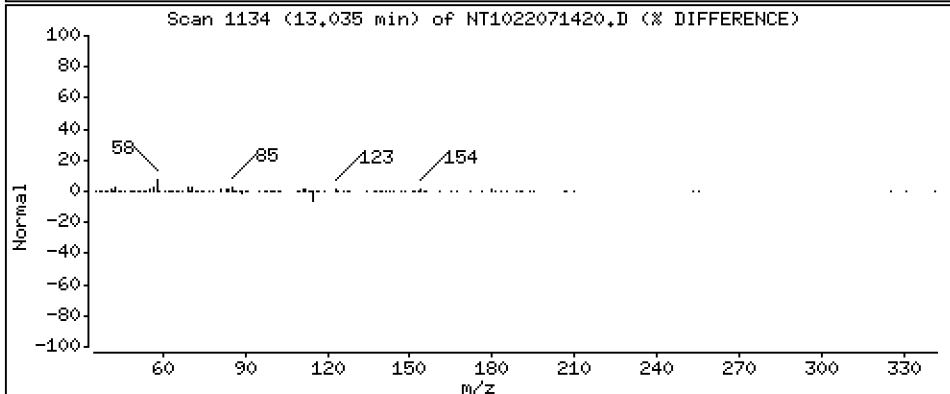
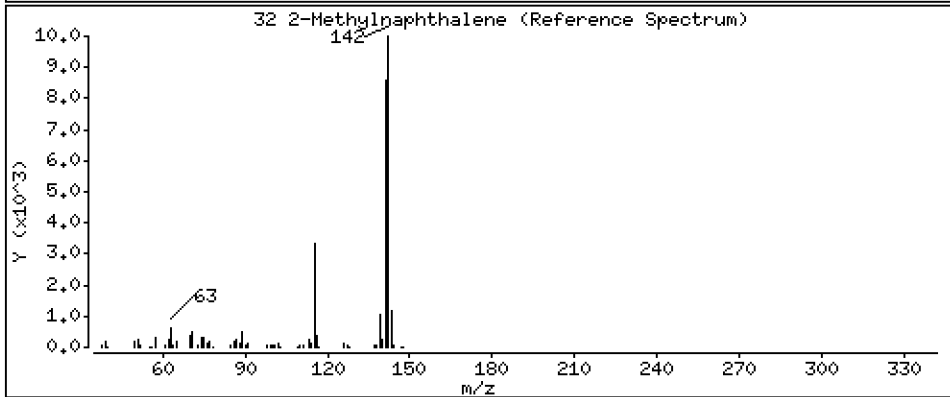
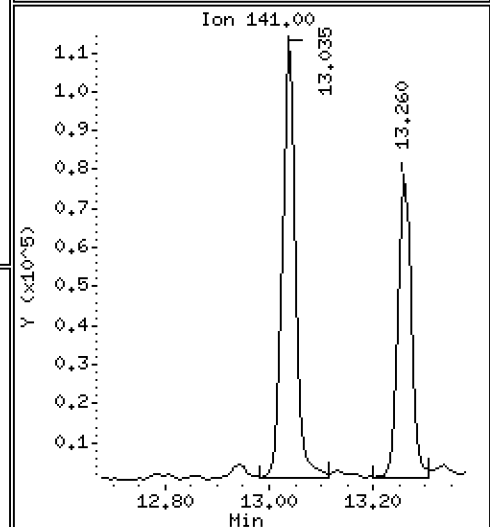
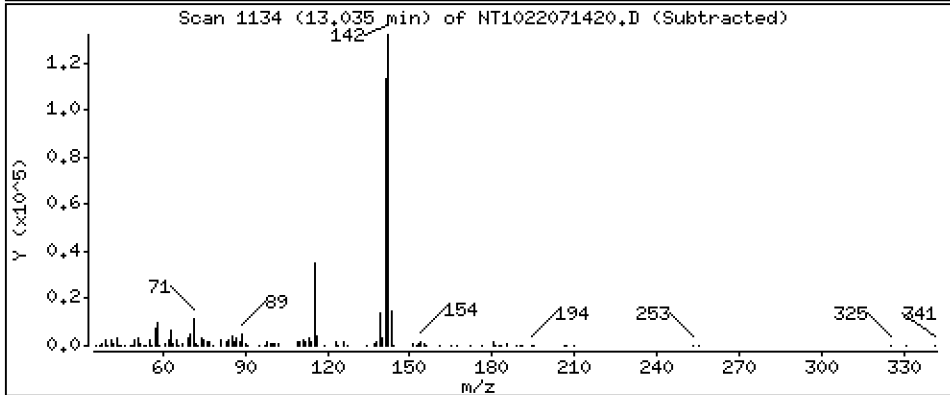
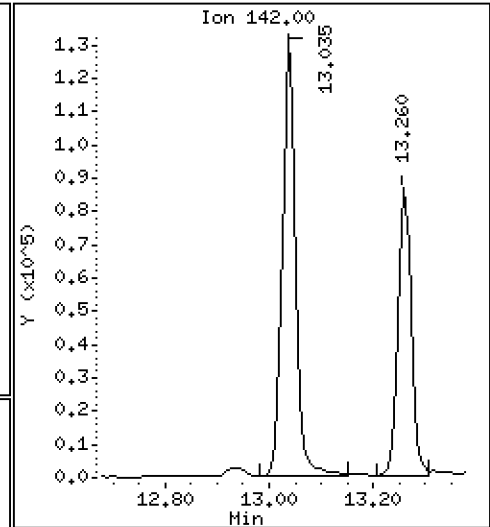
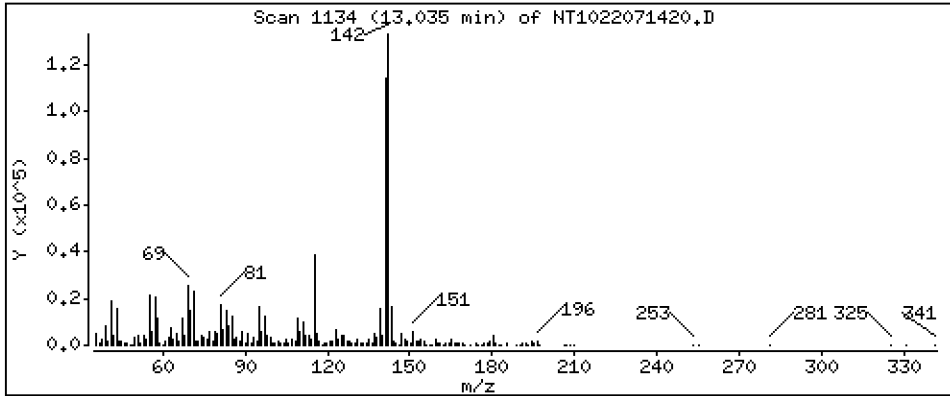
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 1,115 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 2200019-13

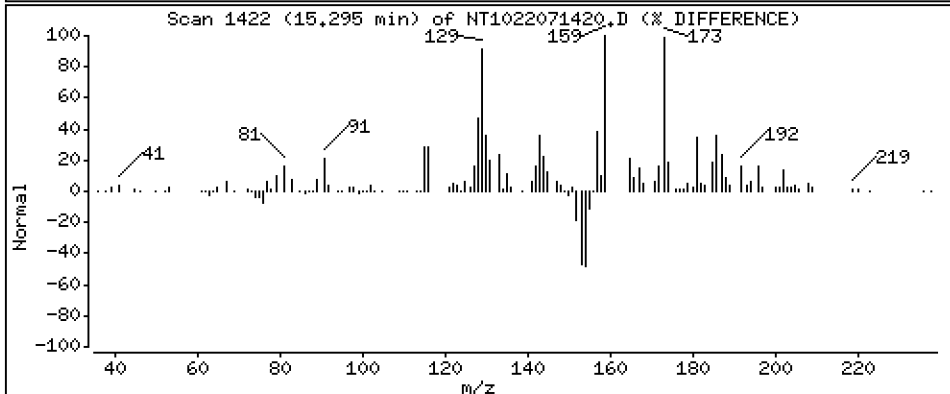
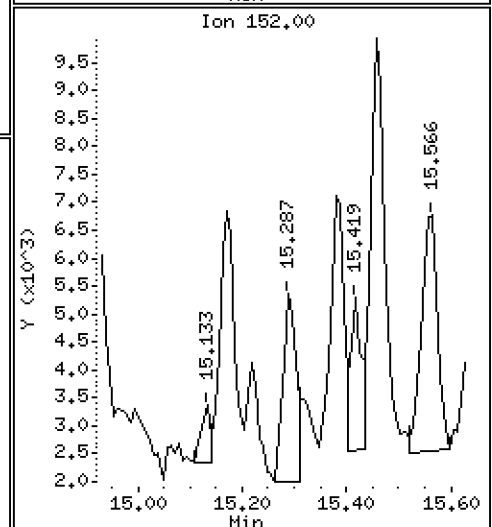
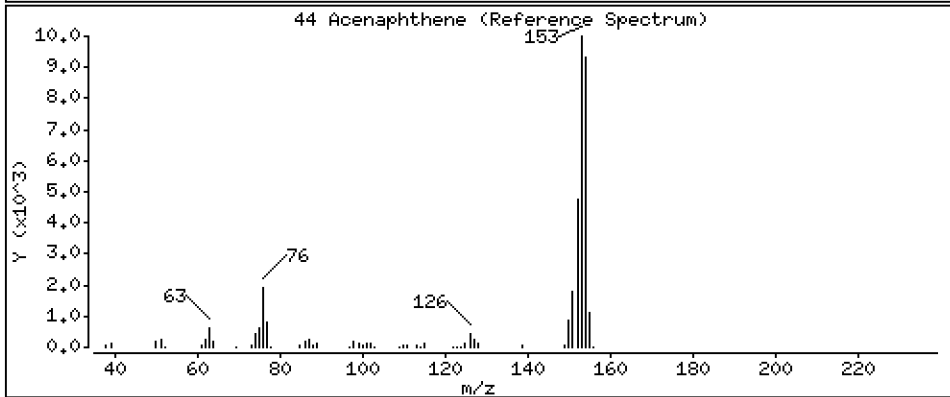
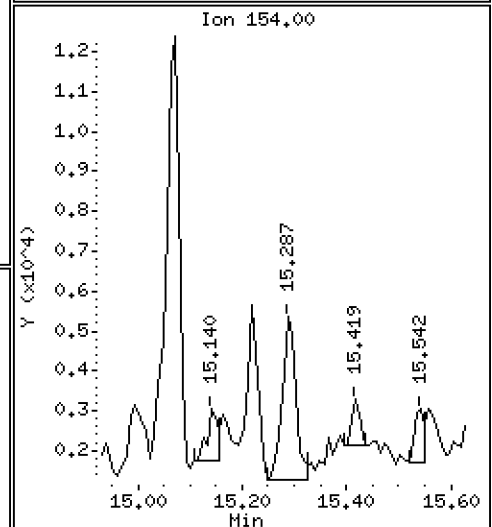
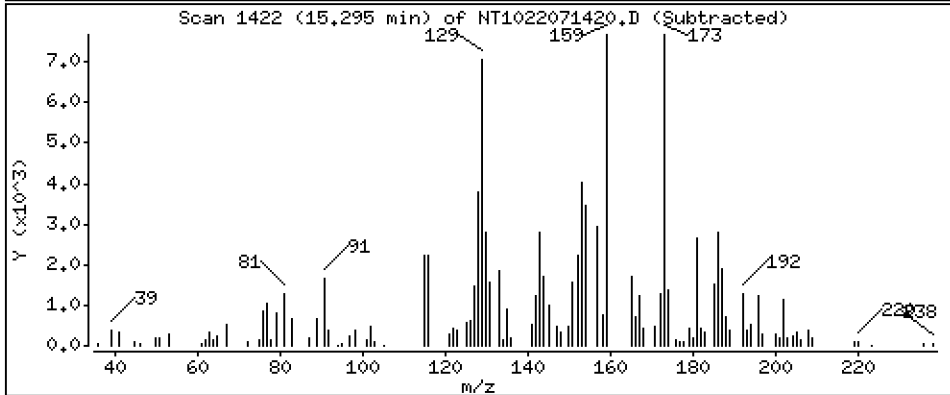
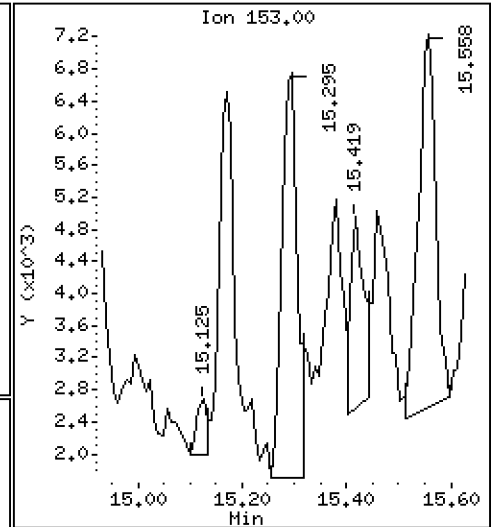
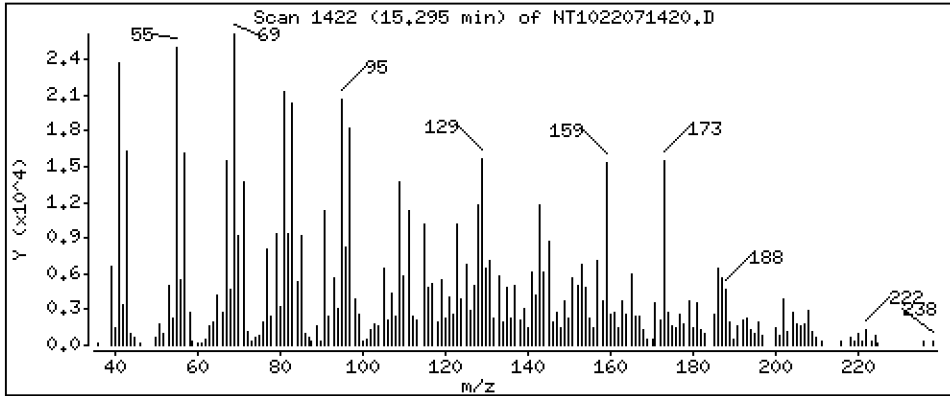
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.1179 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 2200019-13

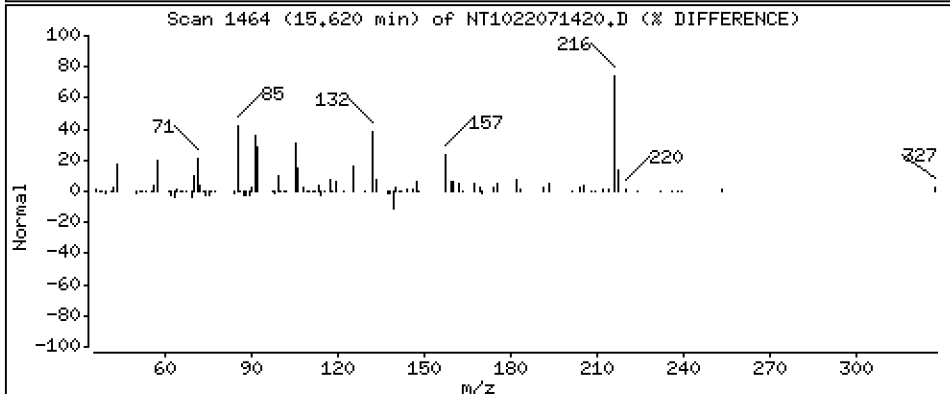
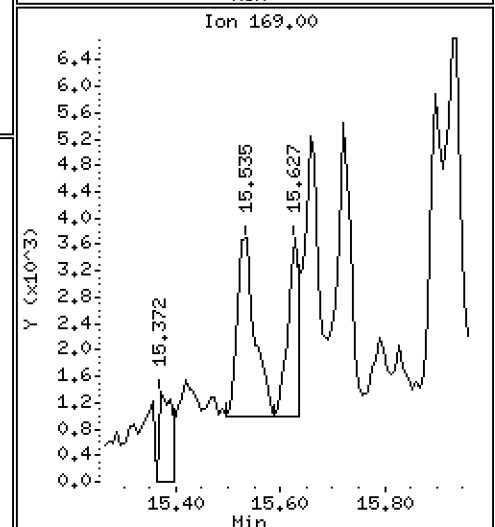
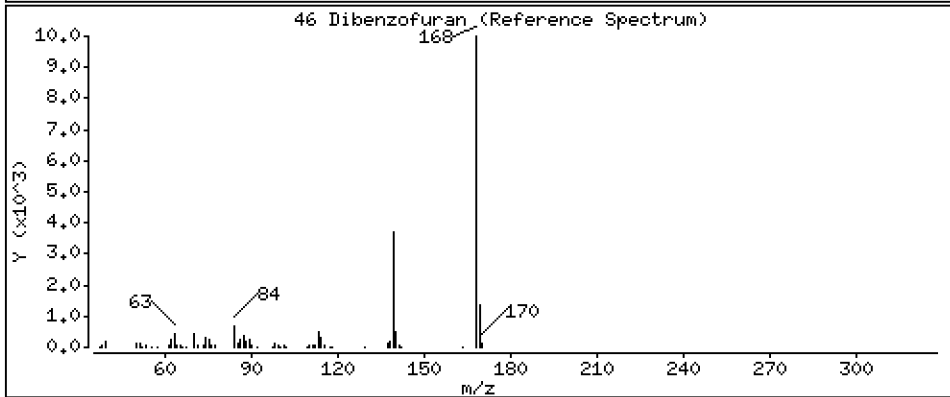
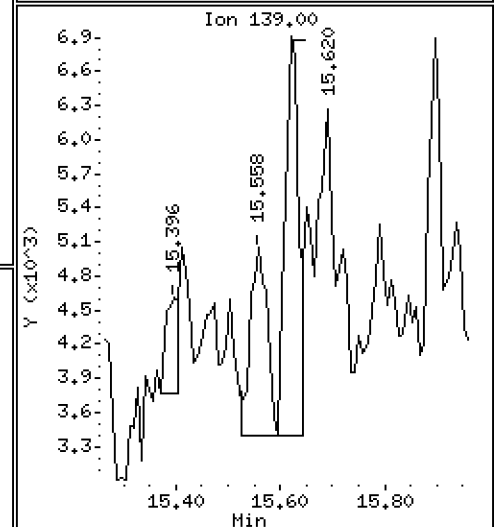
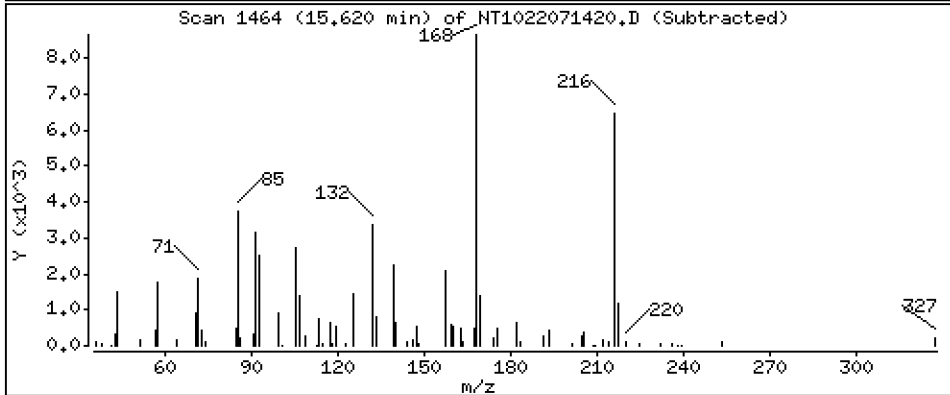
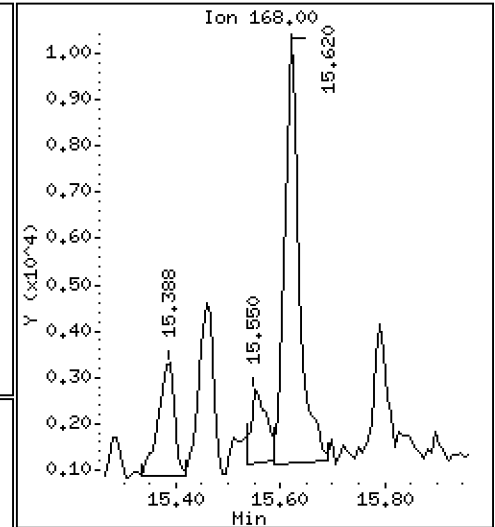
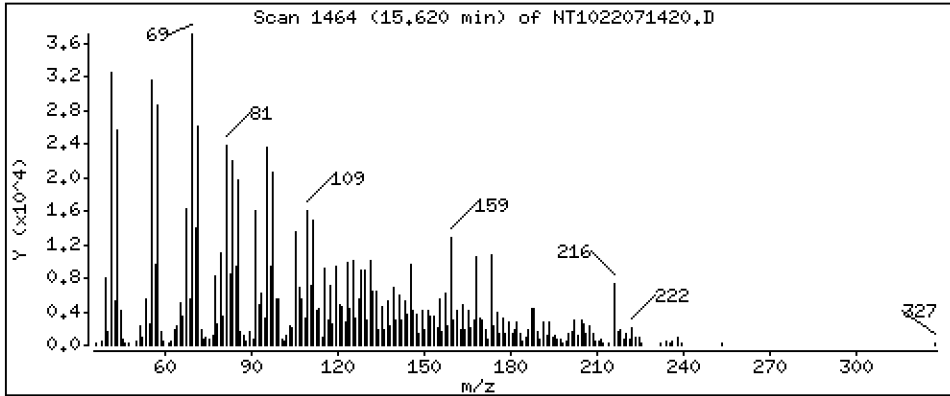
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1261 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-13

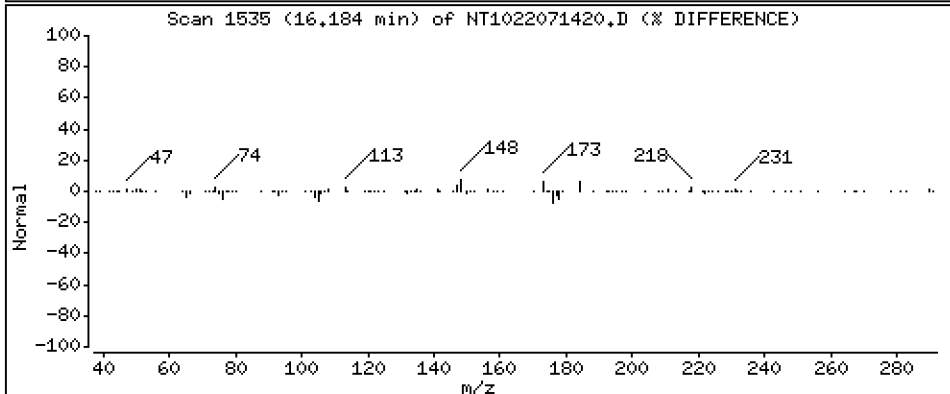
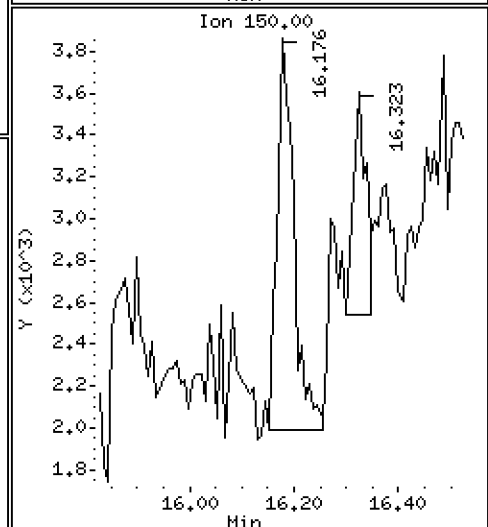
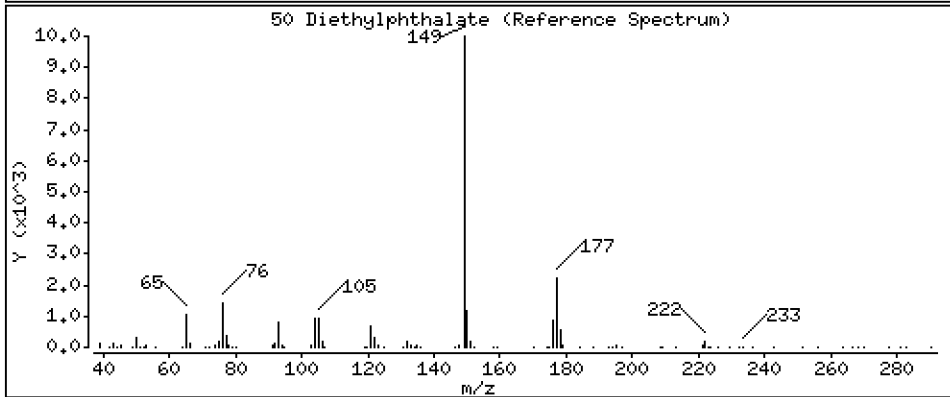
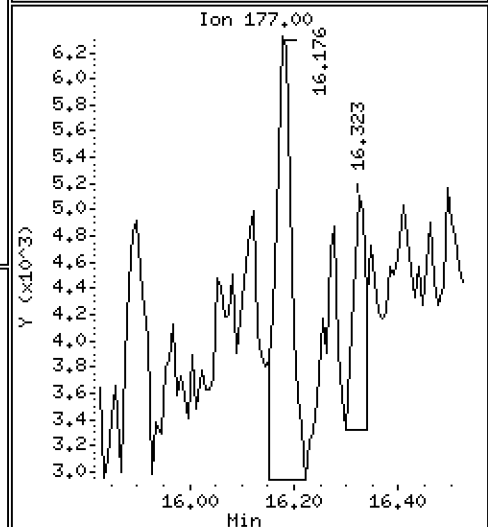
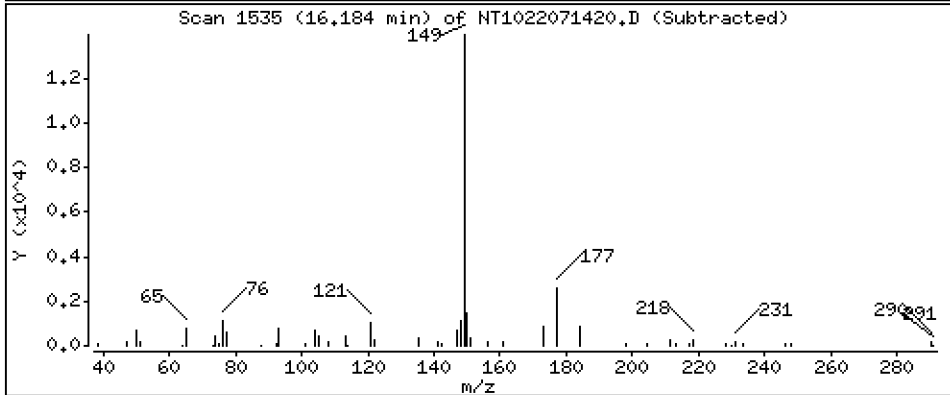
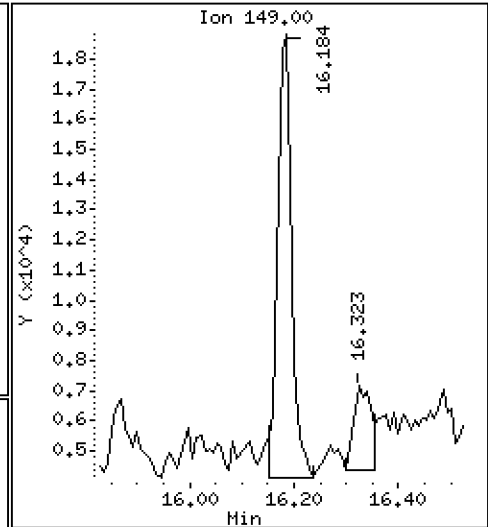
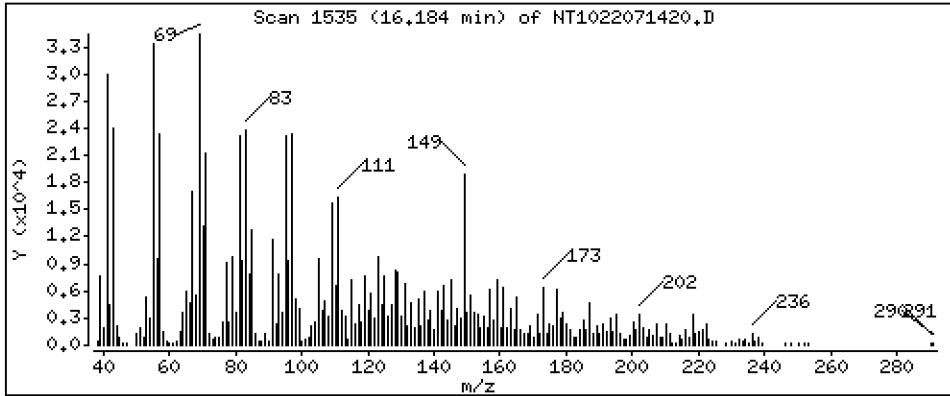
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.2878 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-13

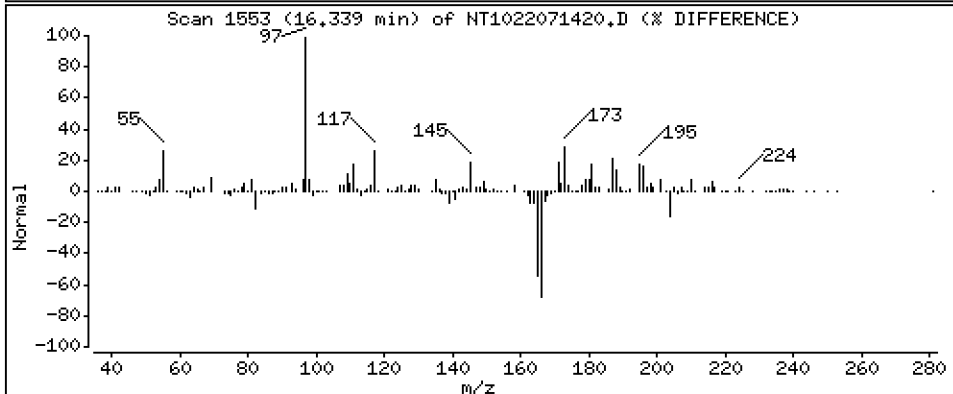
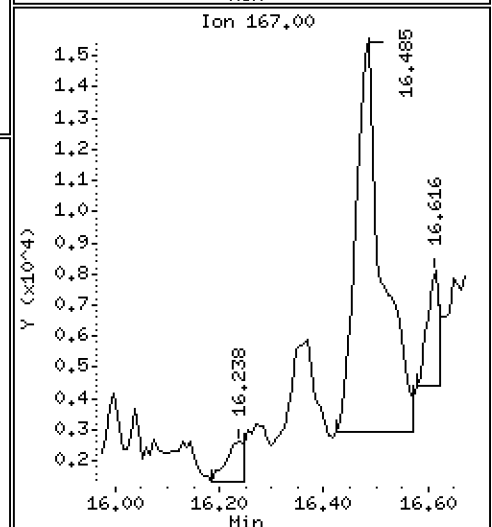
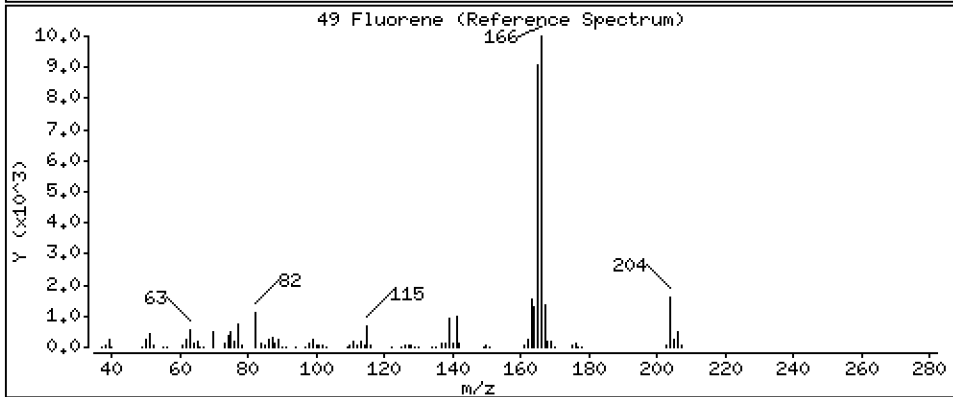
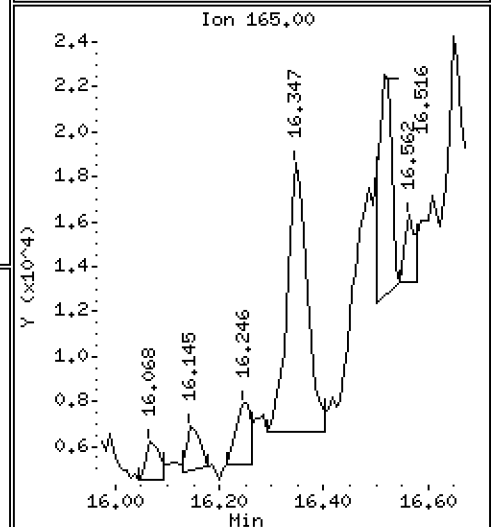
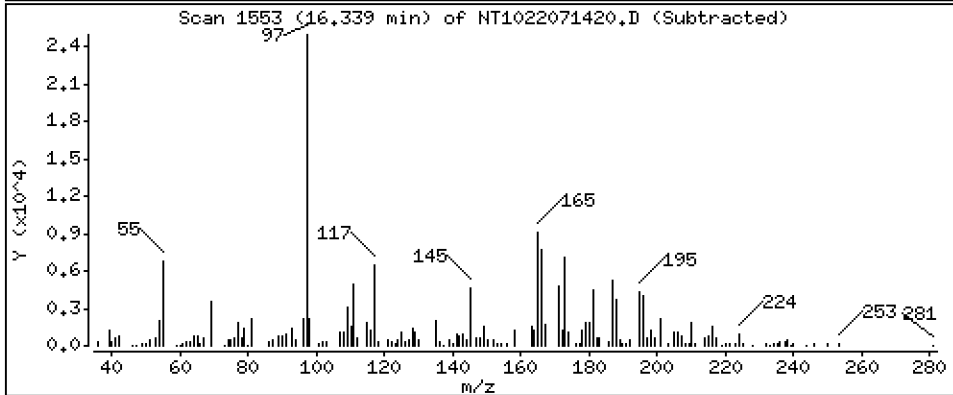
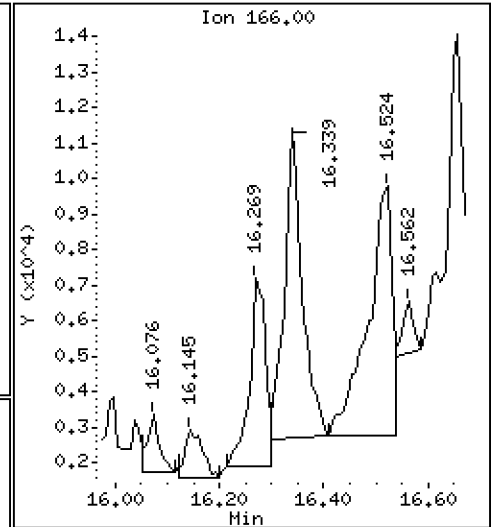
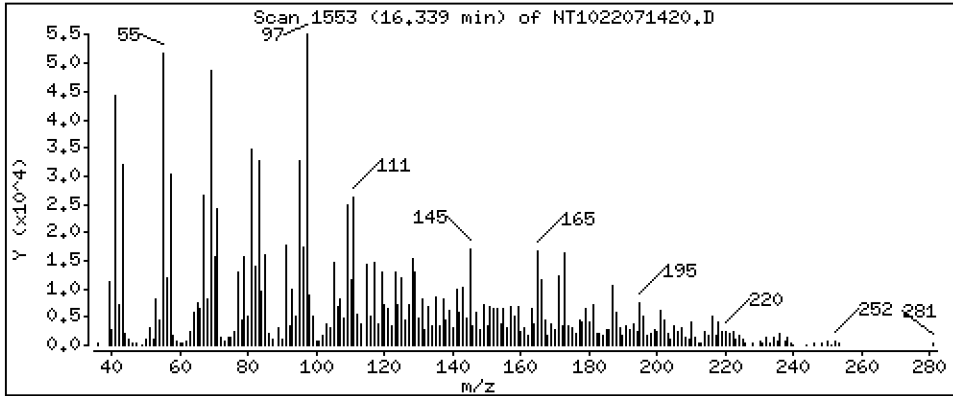
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.1319 ug/mL

49 Fluorene



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-13

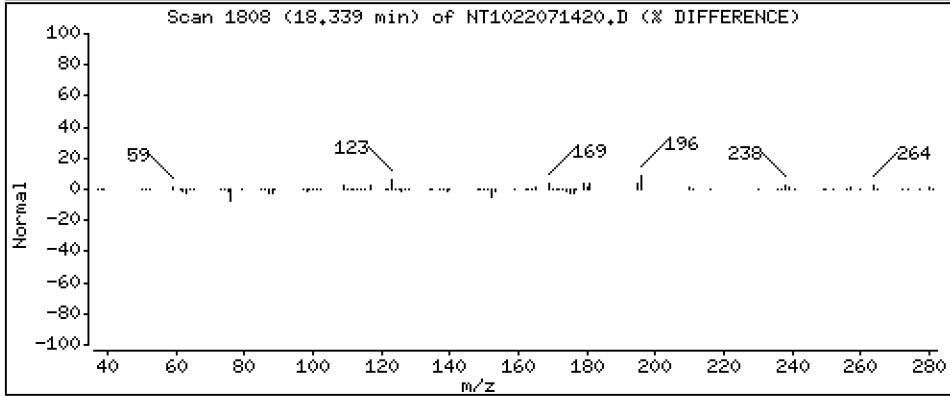
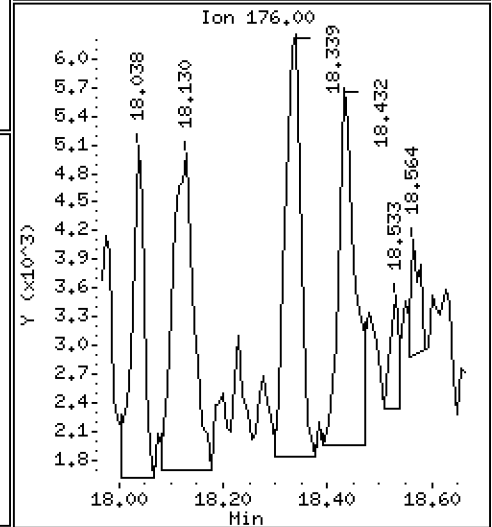
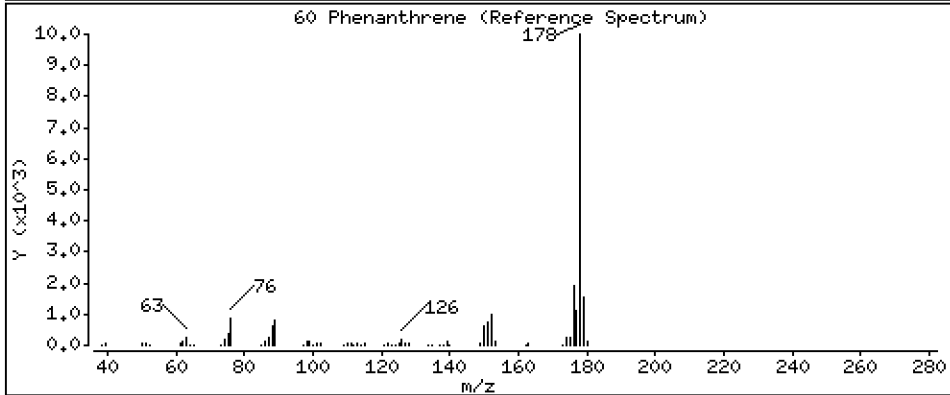
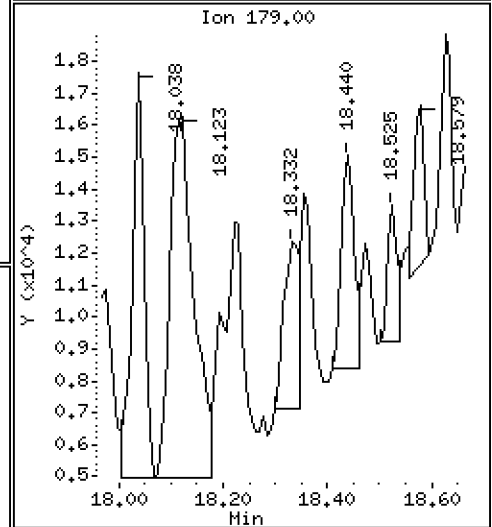
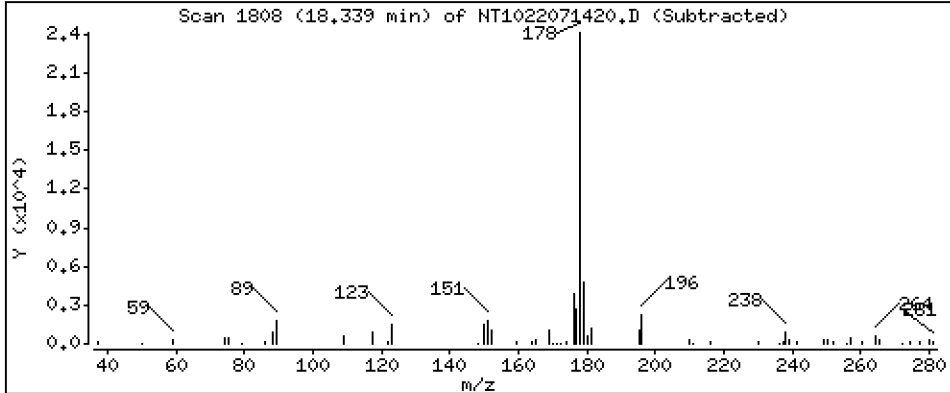
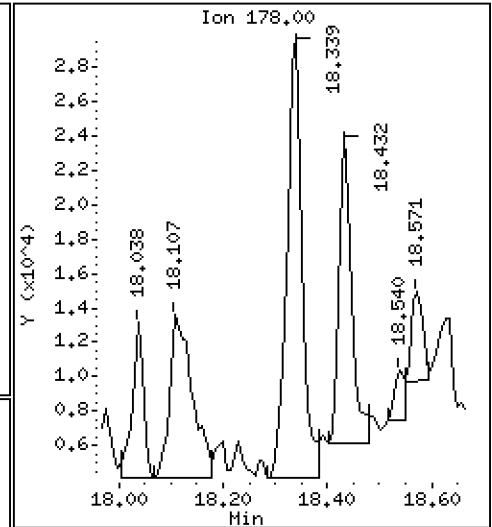
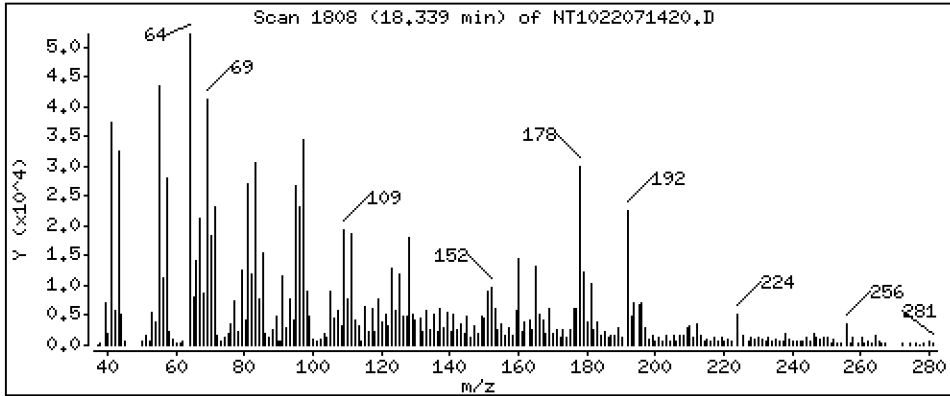
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.6060 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-13

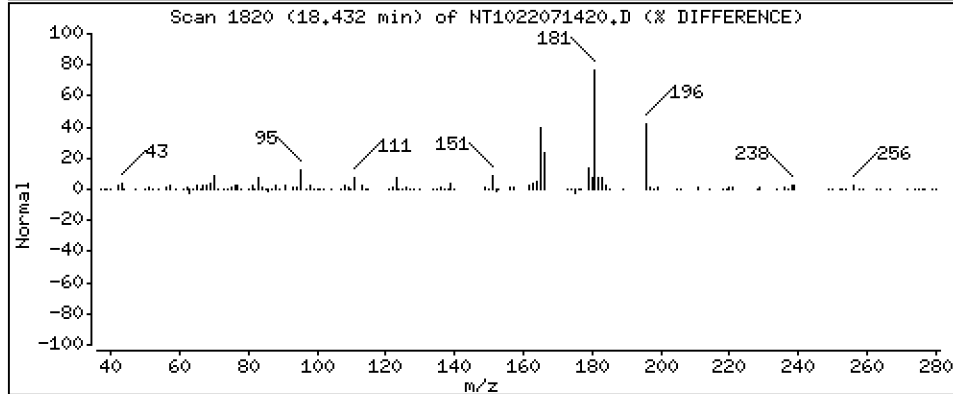
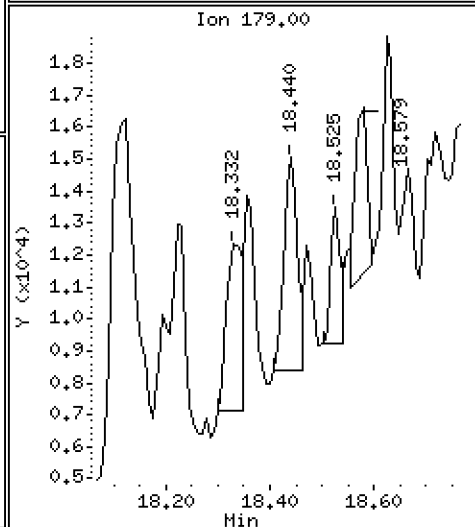
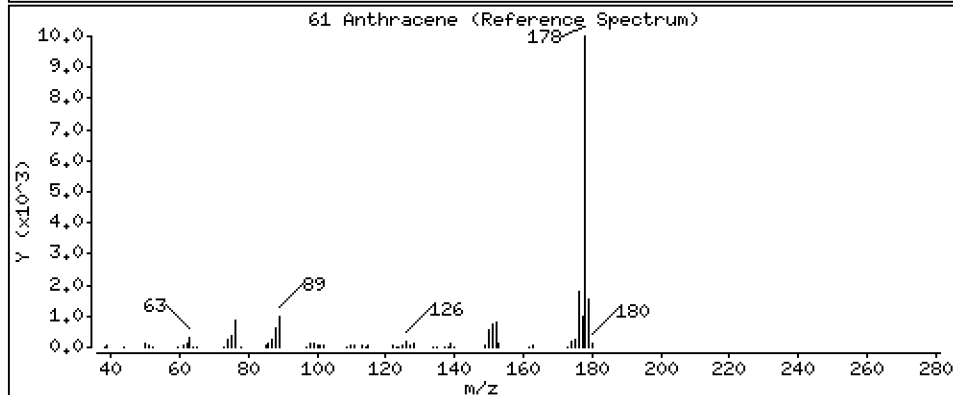
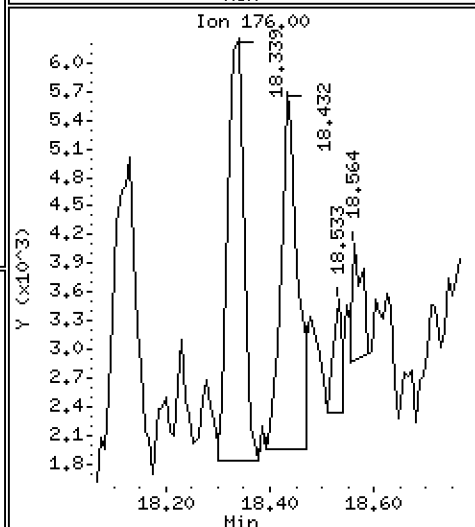
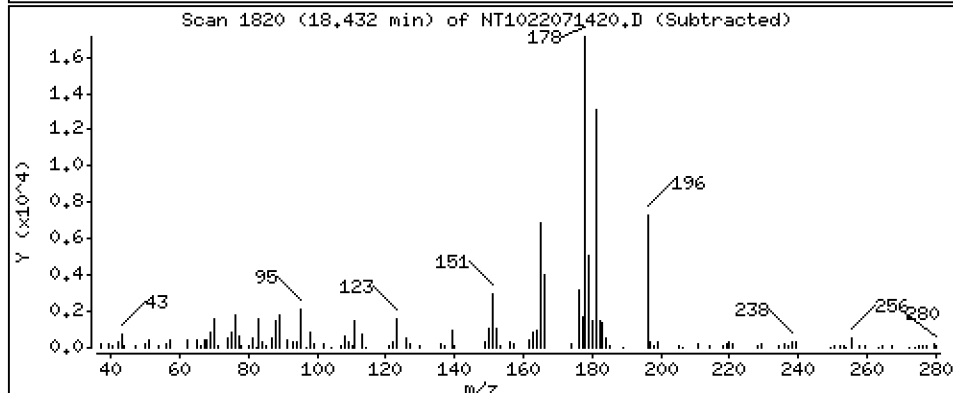
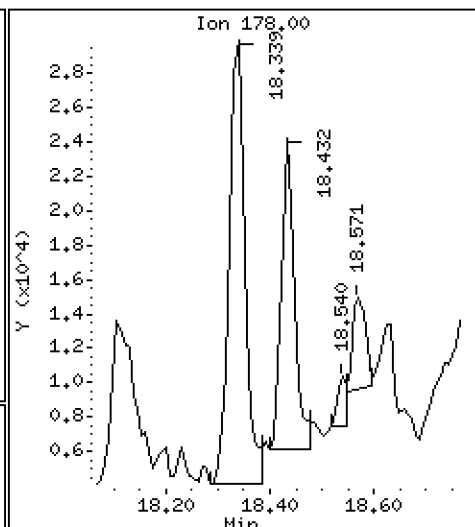
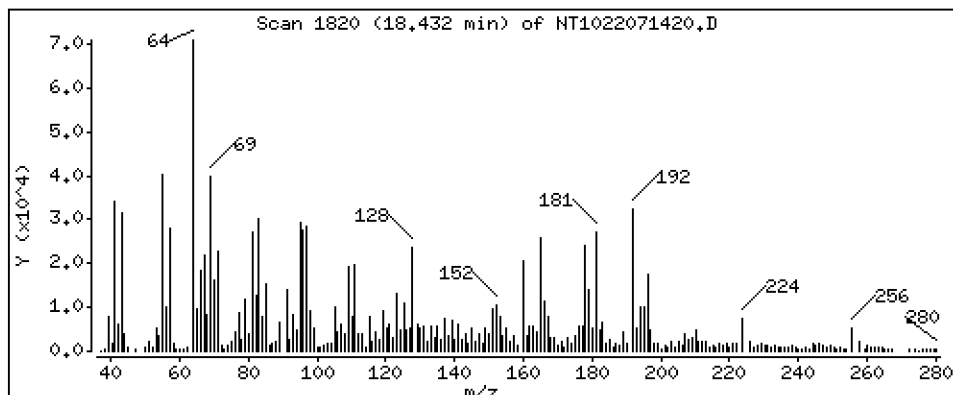
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,3387 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-13

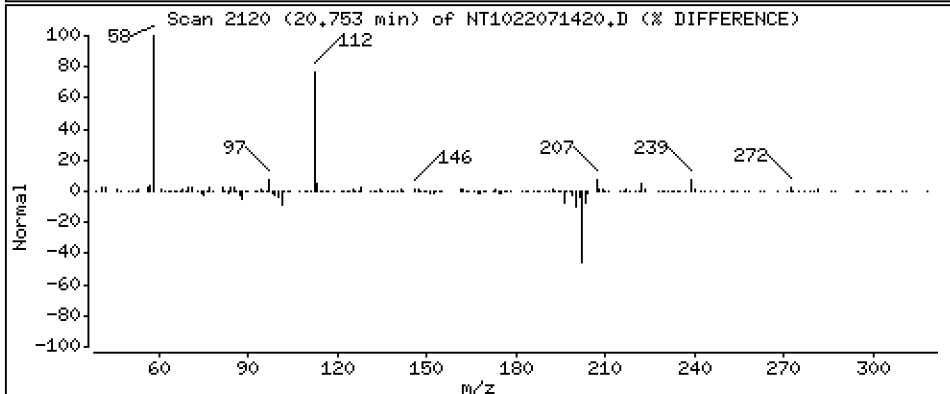
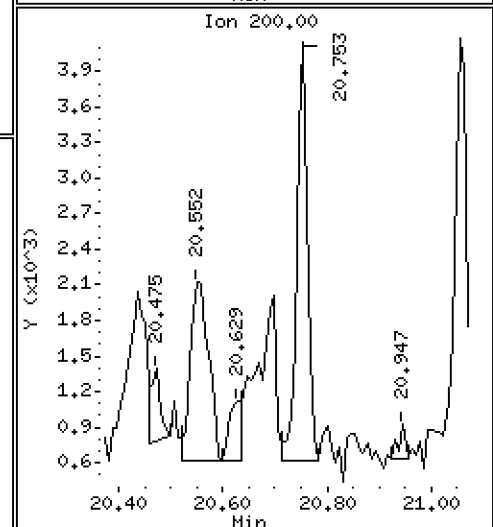
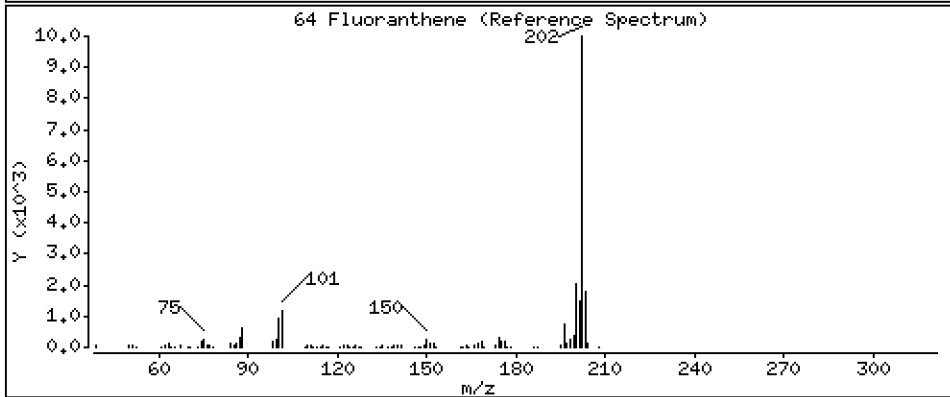
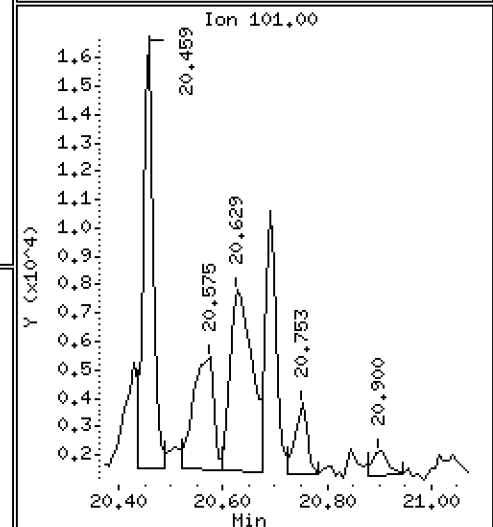
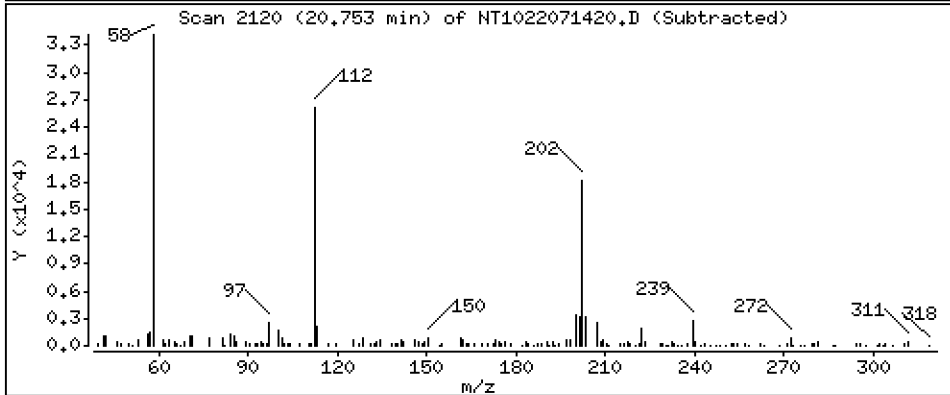
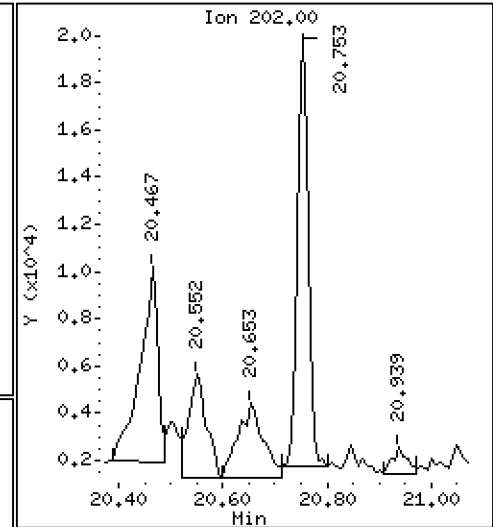
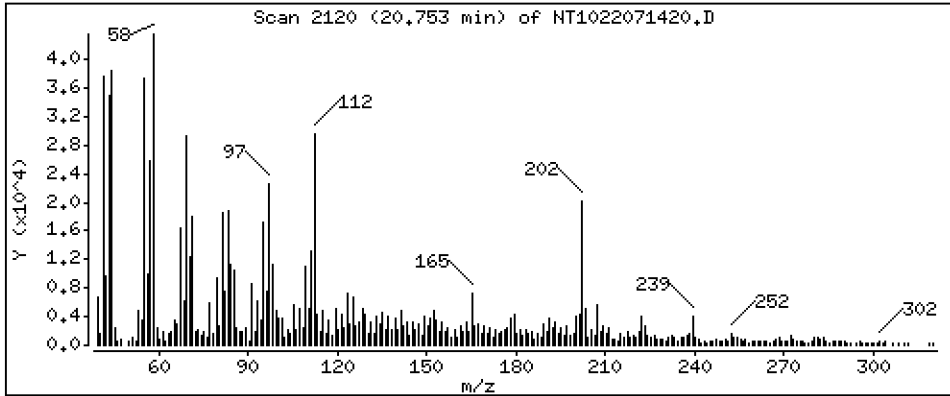
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,2623 ug/mL

64 Fluoranthene



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 2200019-13

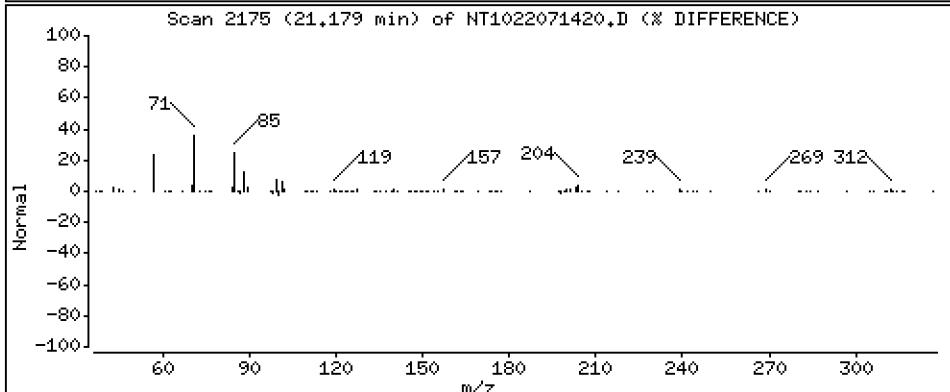
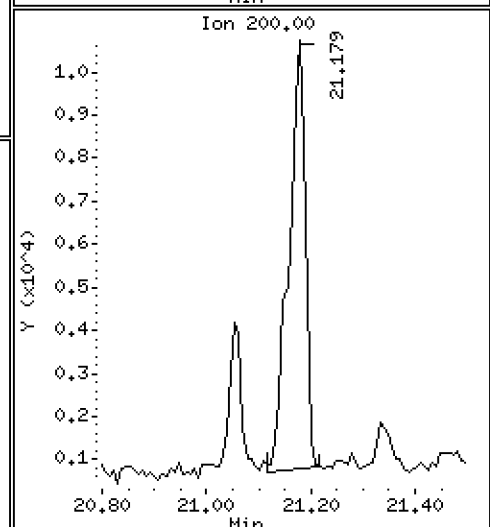
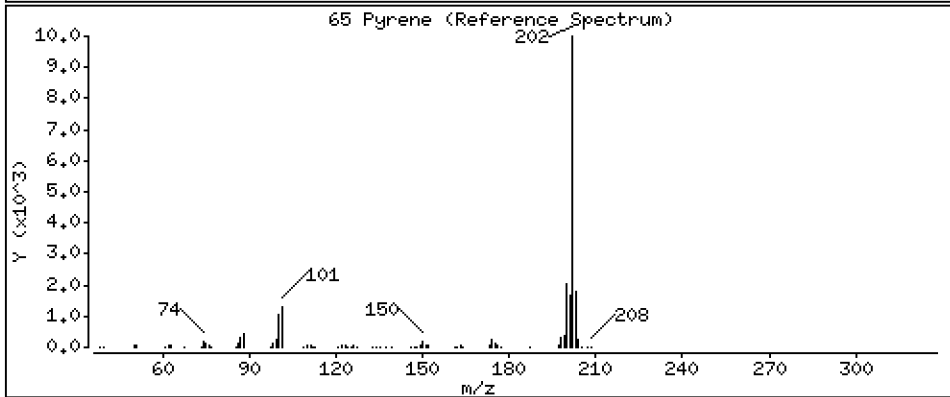
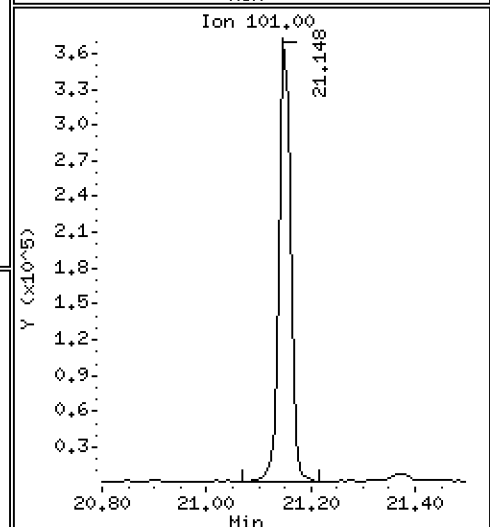
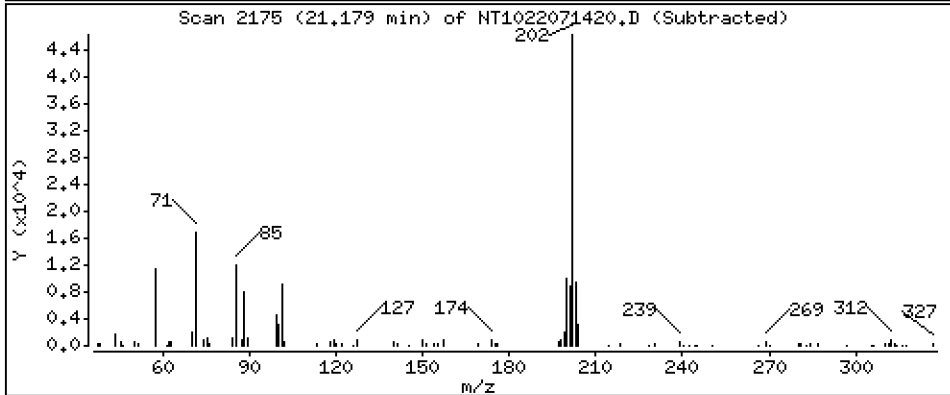
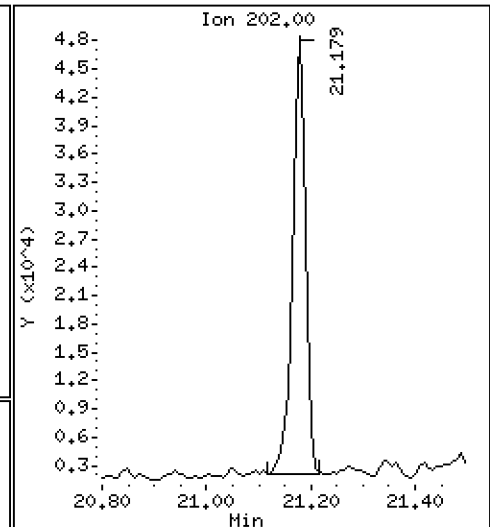
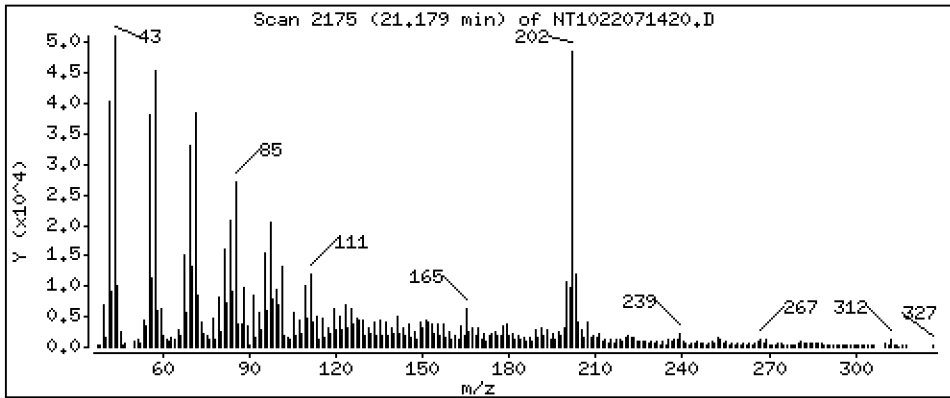
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,8874 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-13

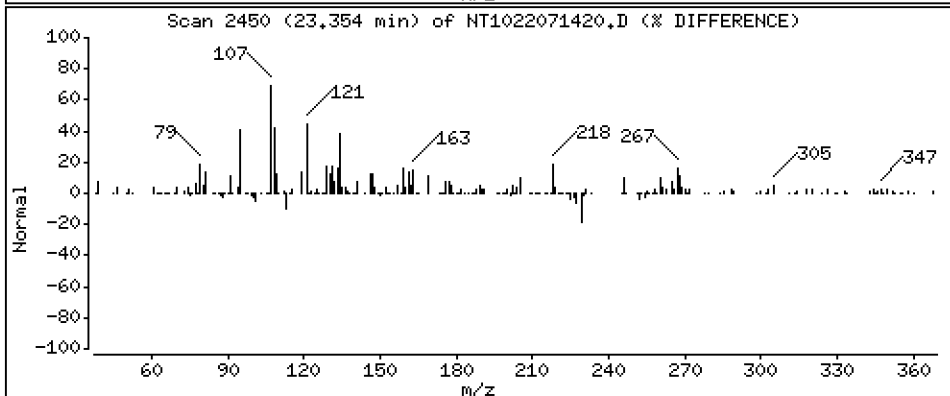
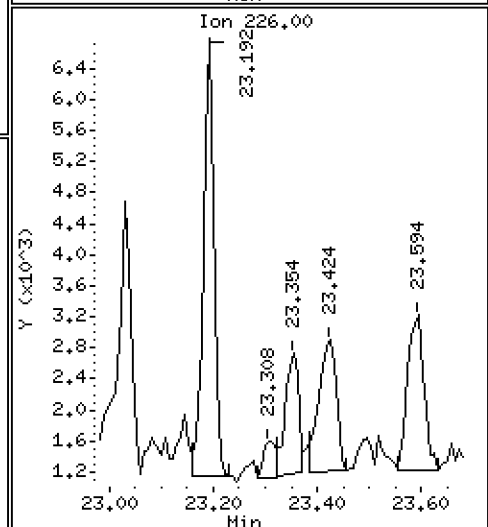
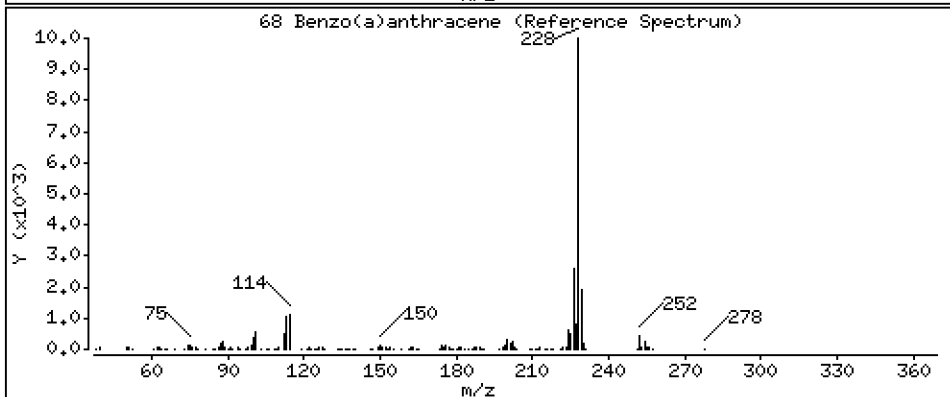
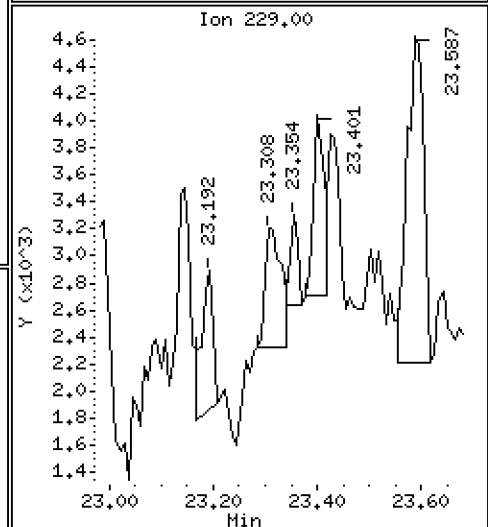
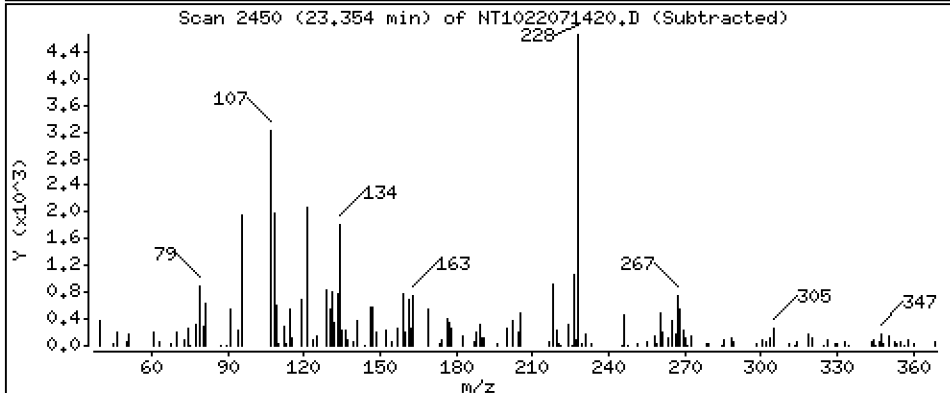
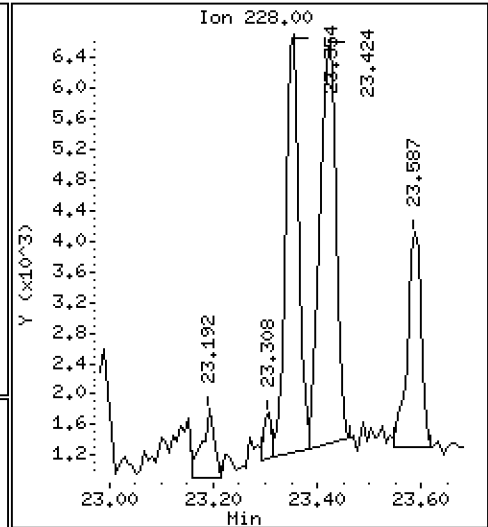
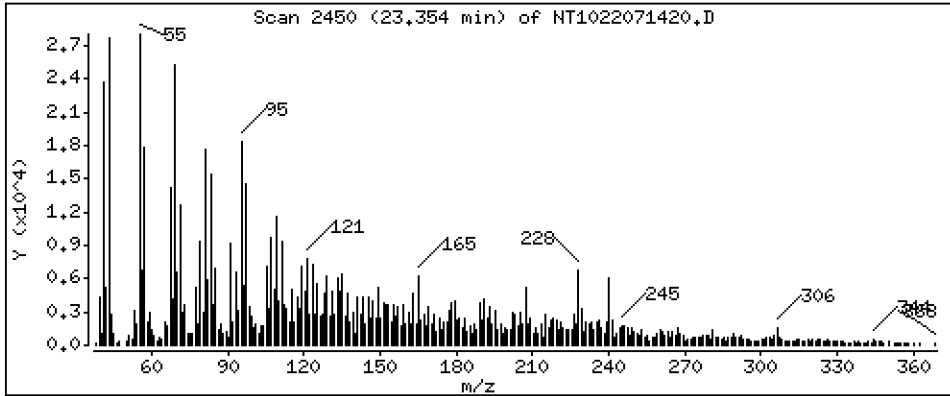
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,1594 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 2200019-13

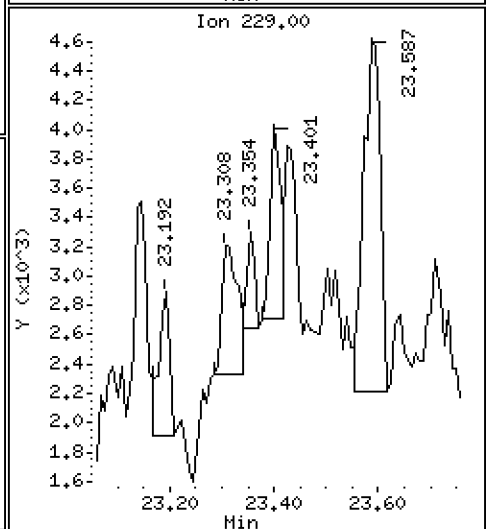
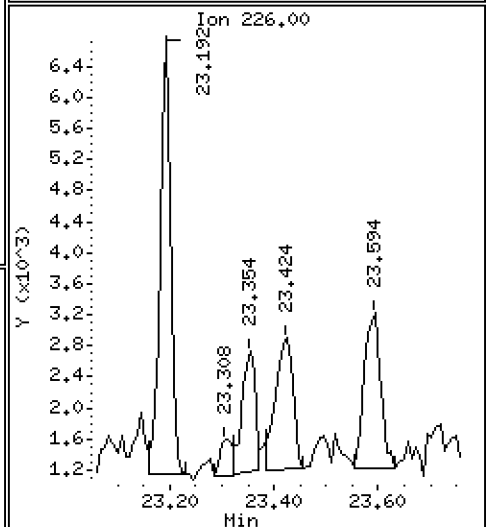
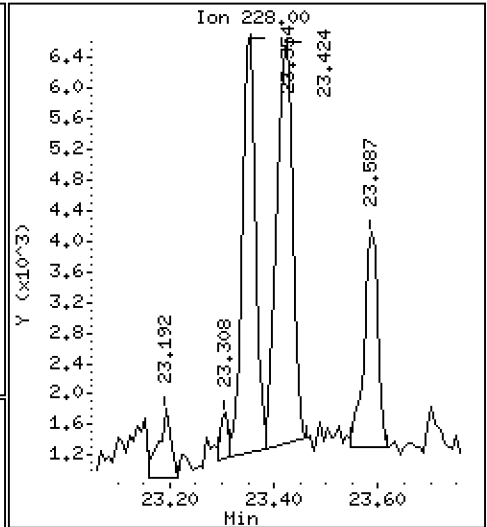
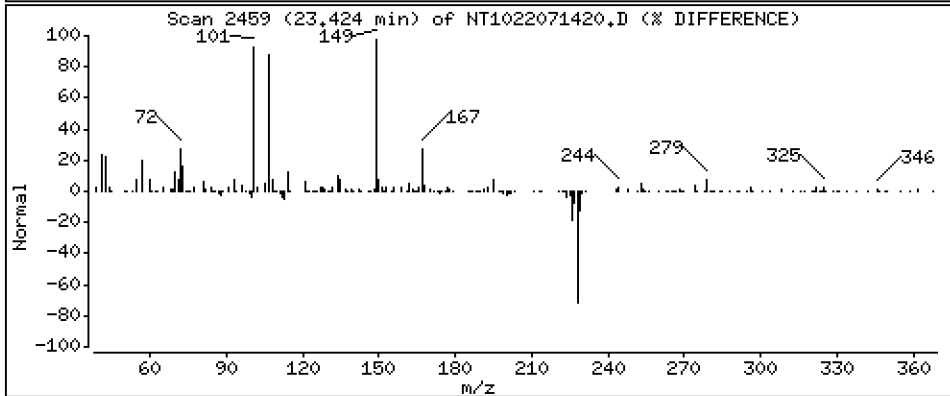
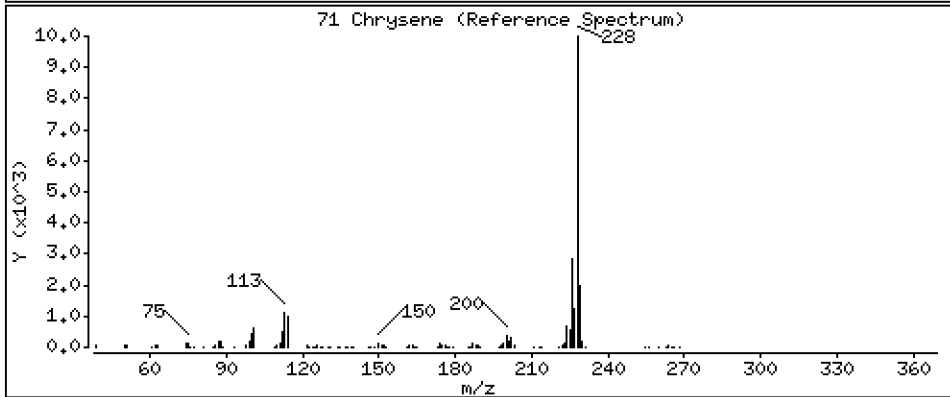
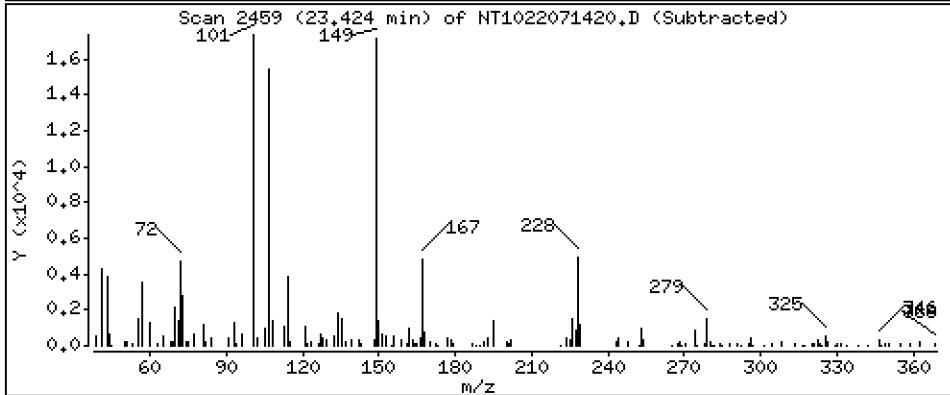
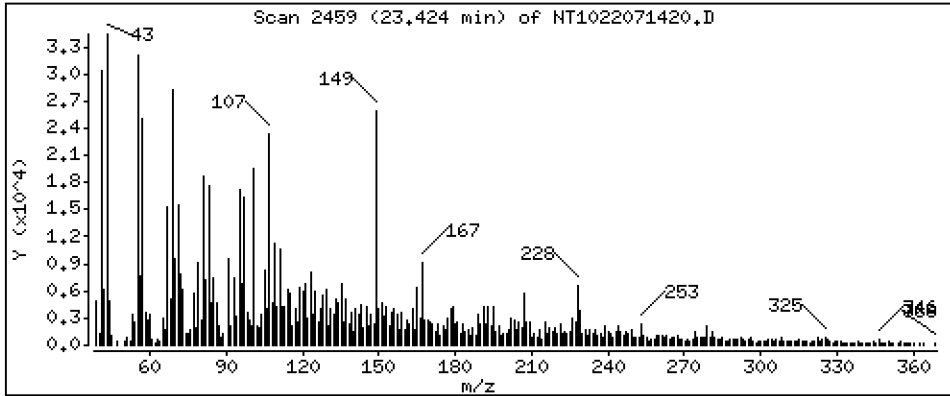
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2690 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 2200019-13

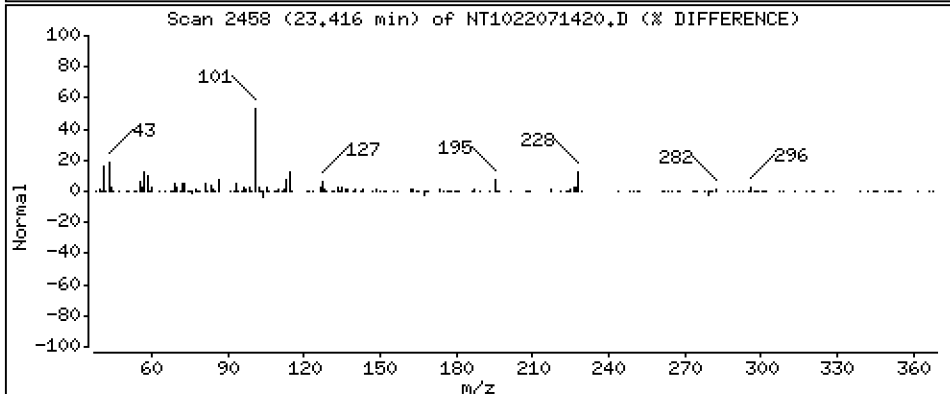
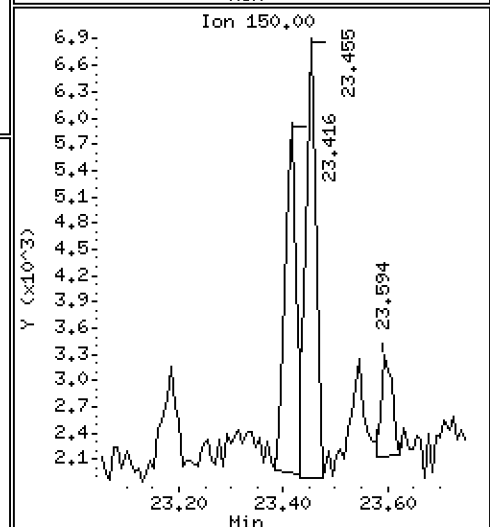
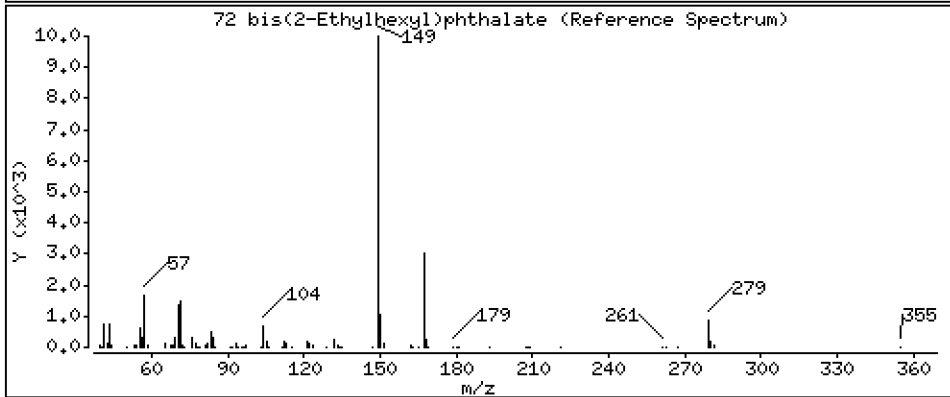
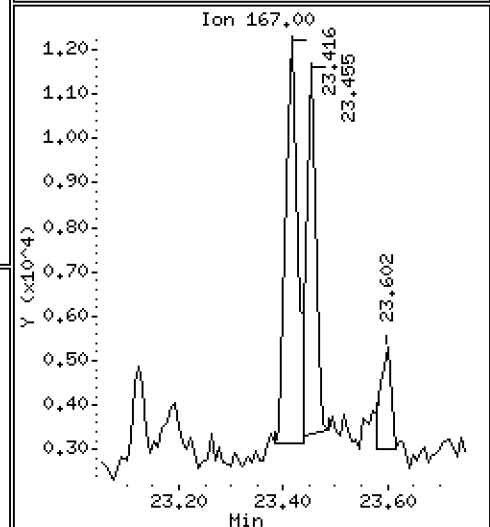
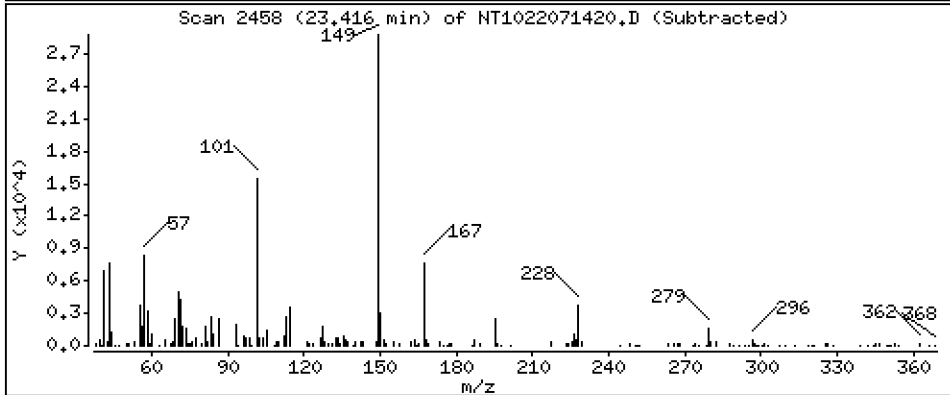
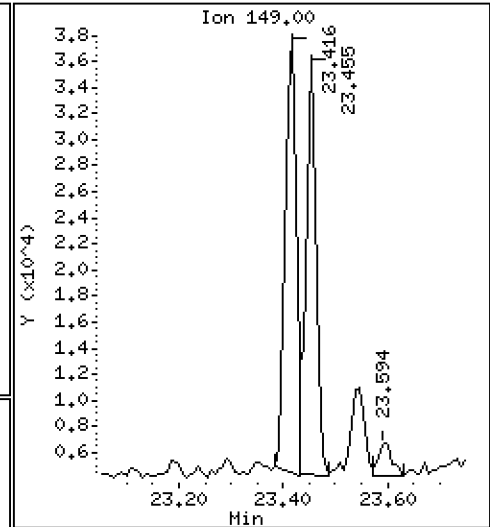
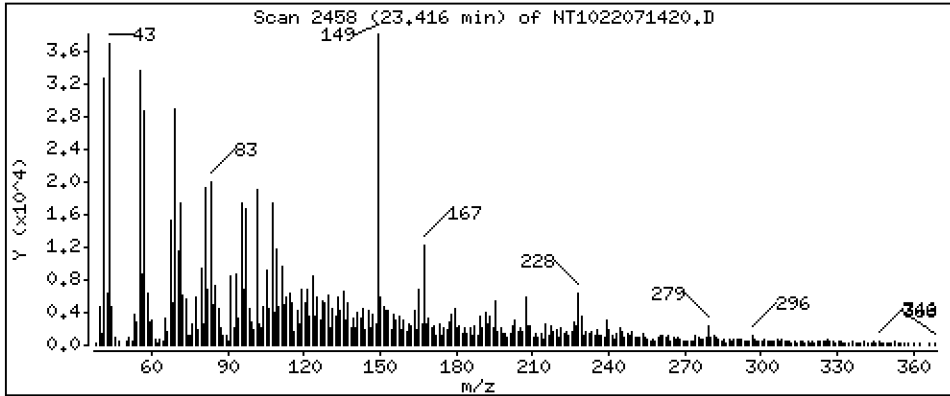
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 1,476 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-13

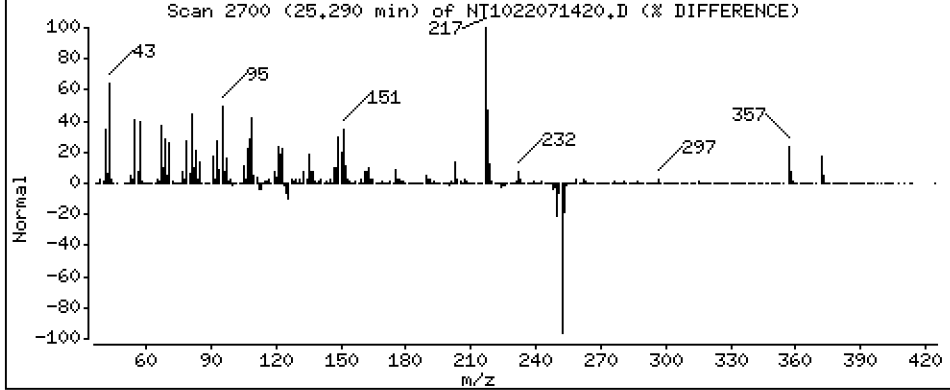
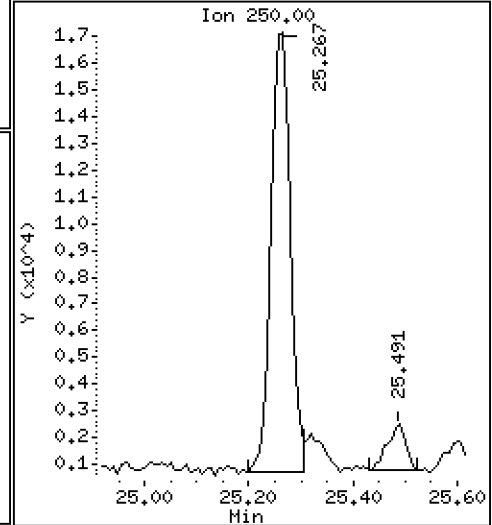
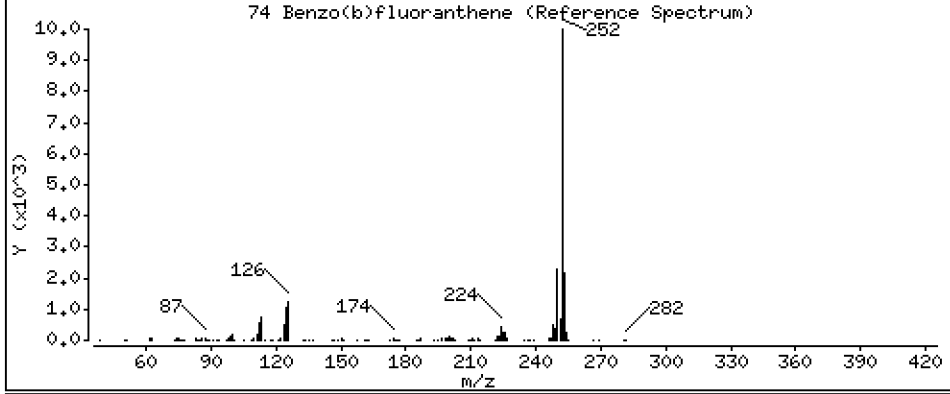
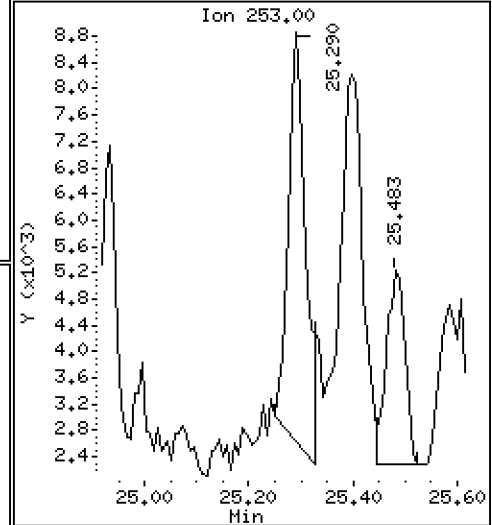
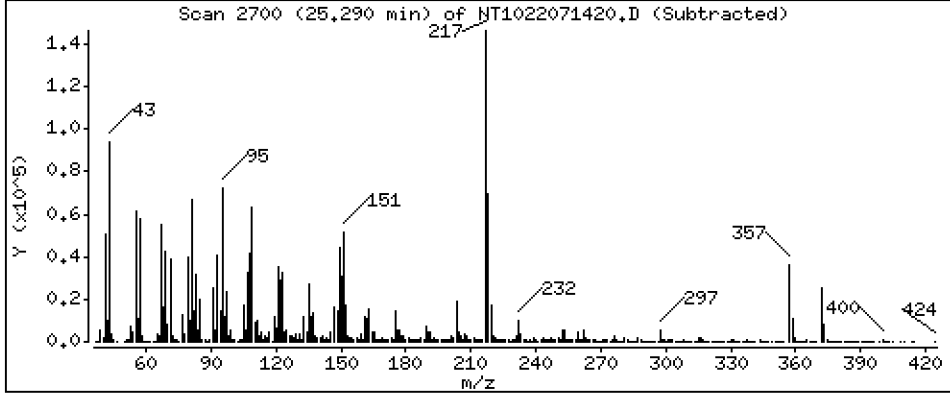
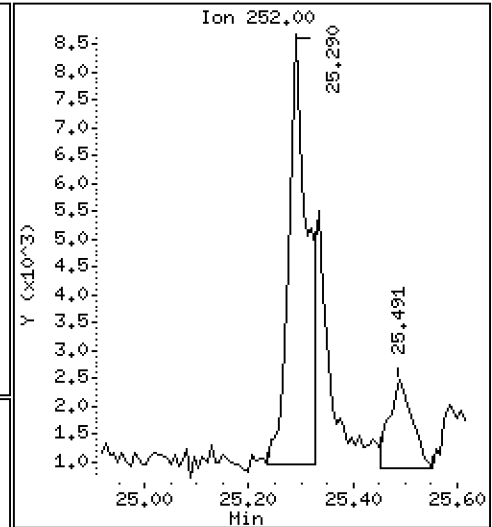
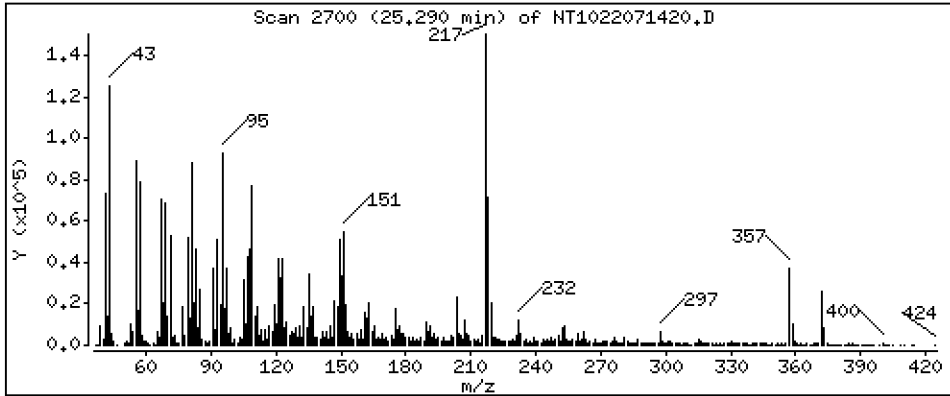
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,4058 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-13

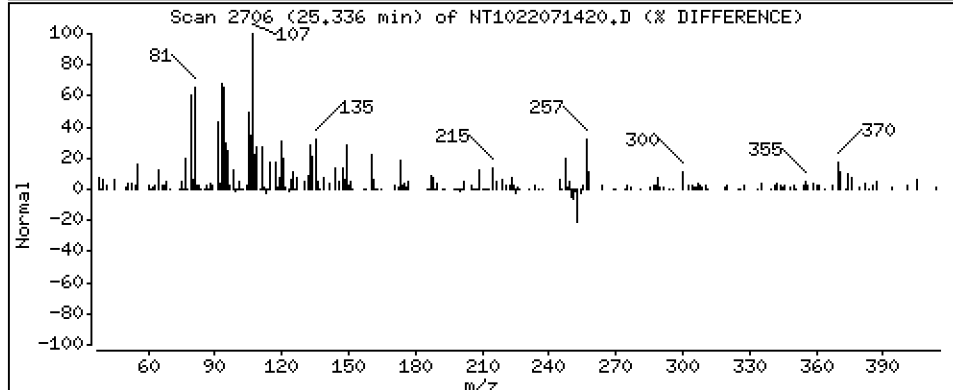
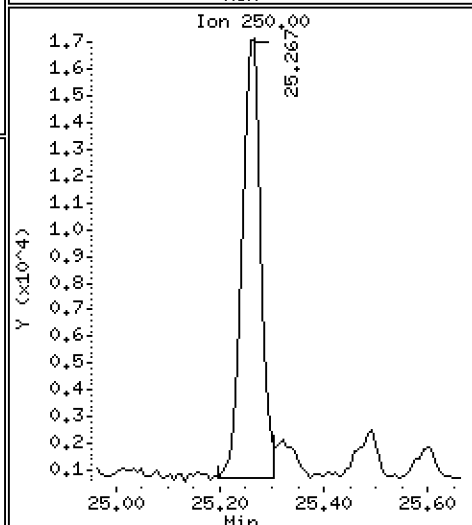
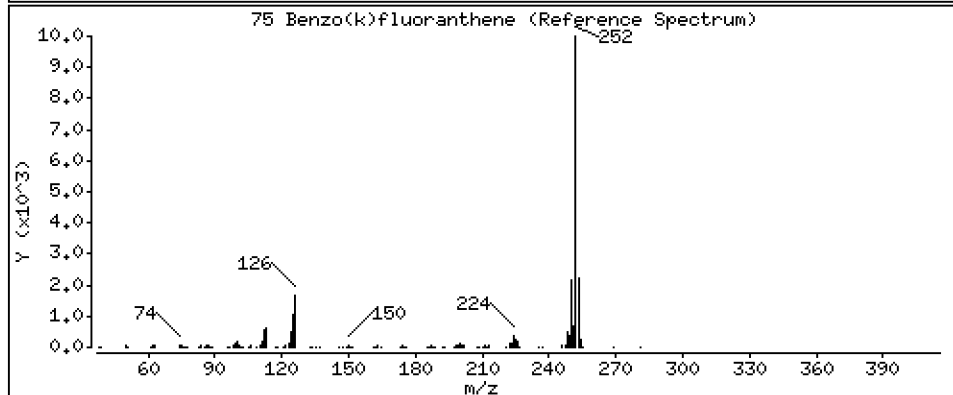
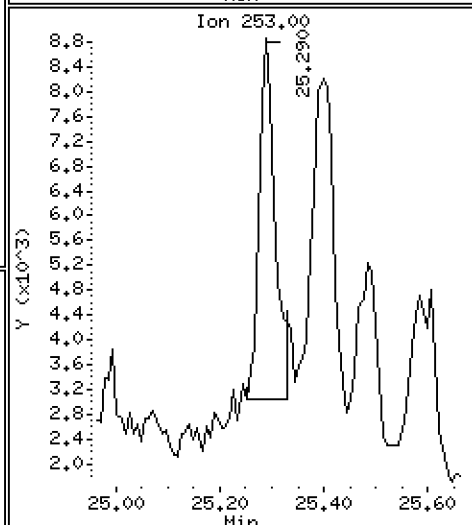
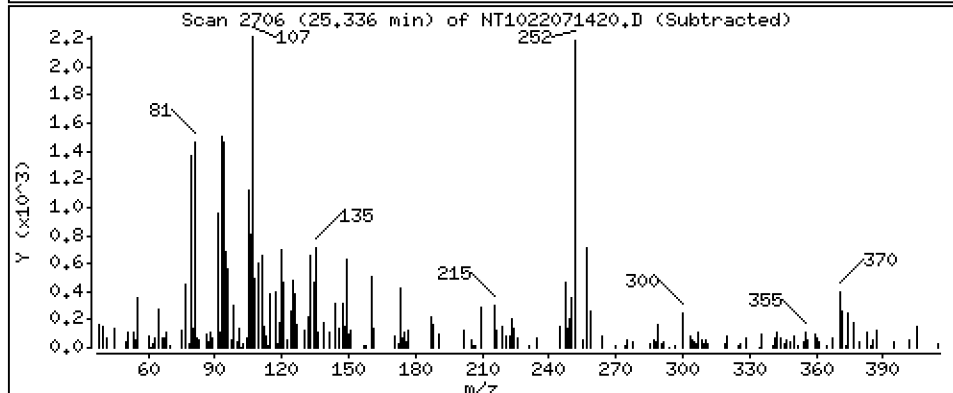
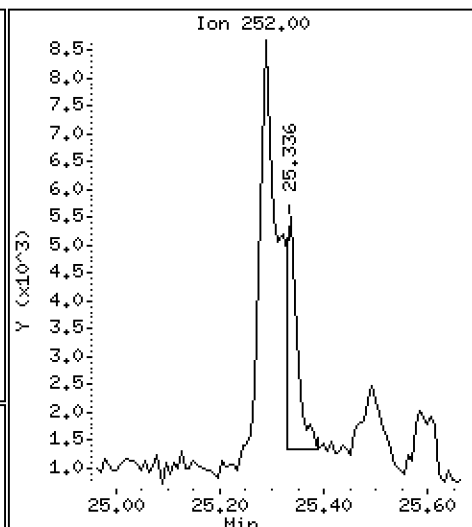
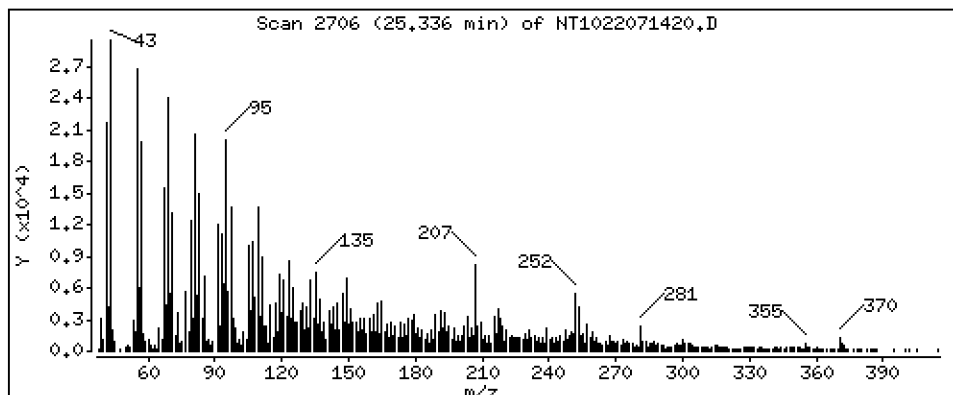
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,1362 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 2200019-13

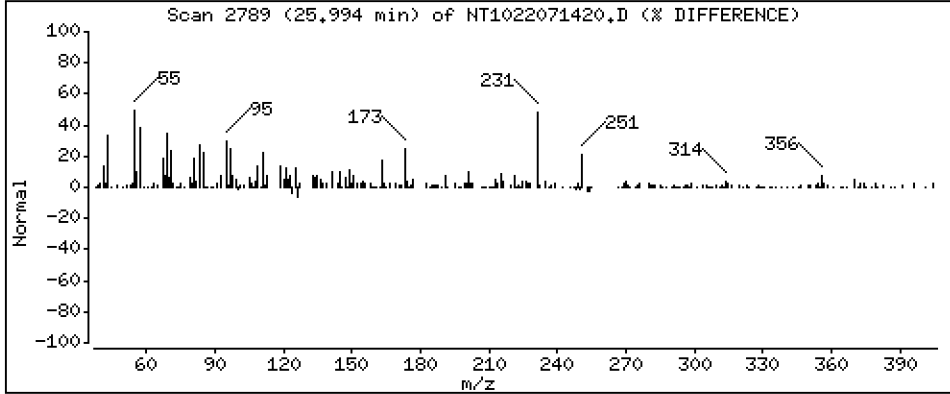
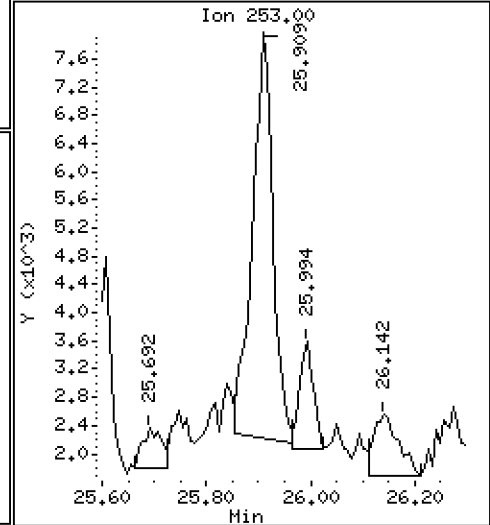
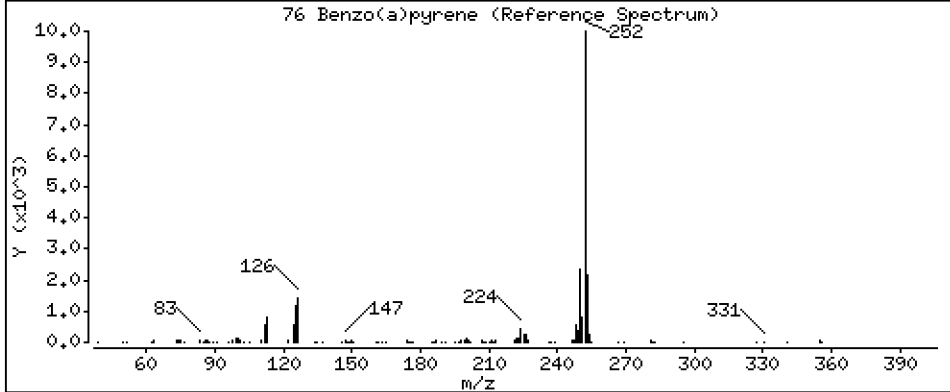
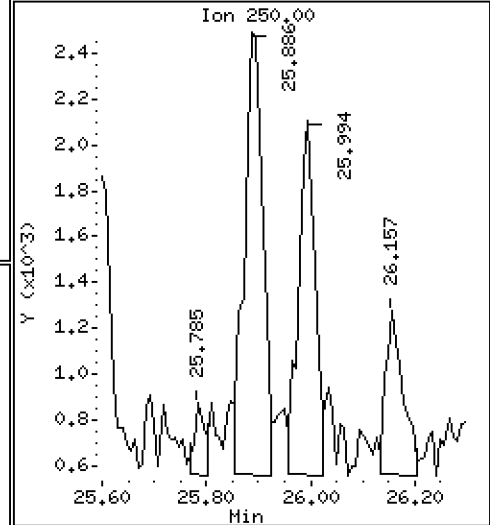
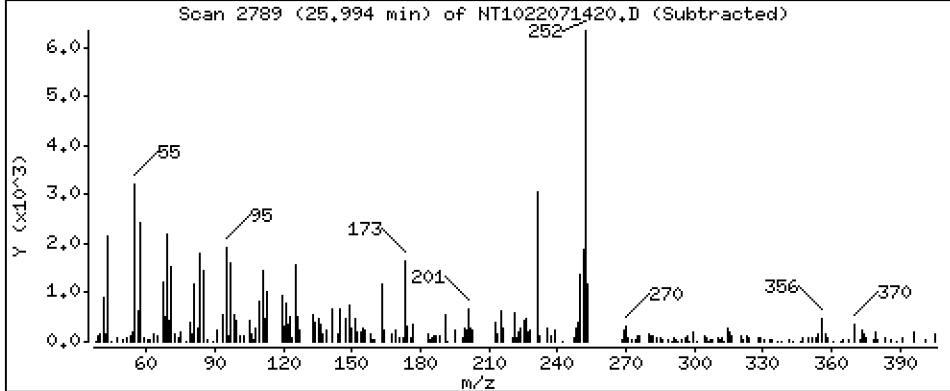
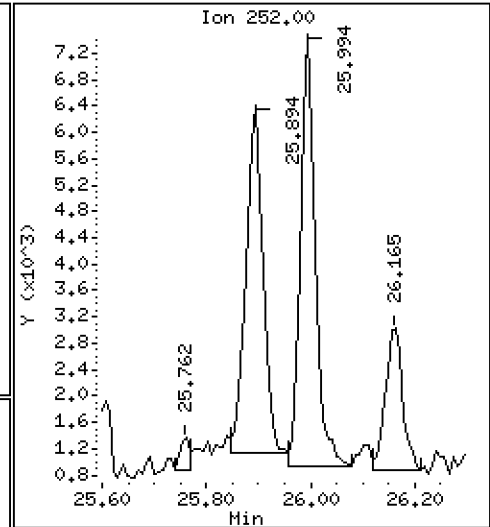
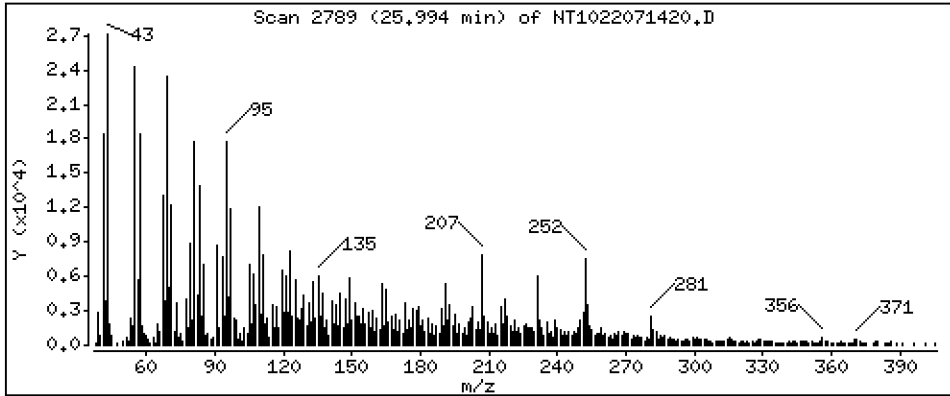
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,3373 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 2200019-13

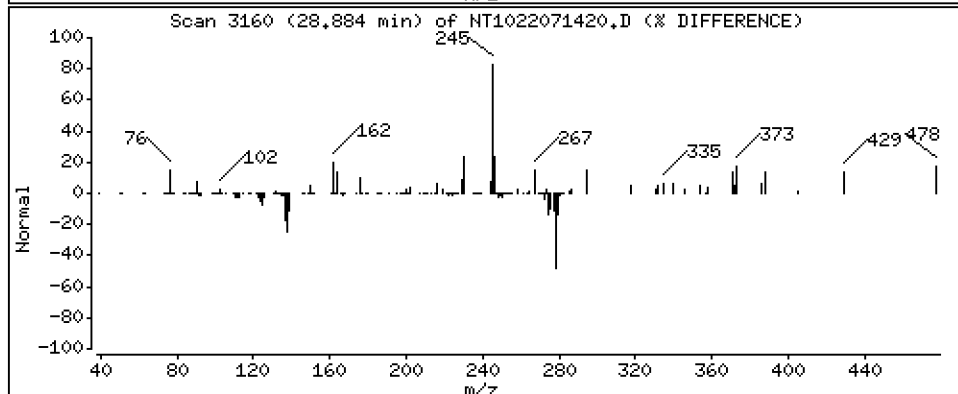
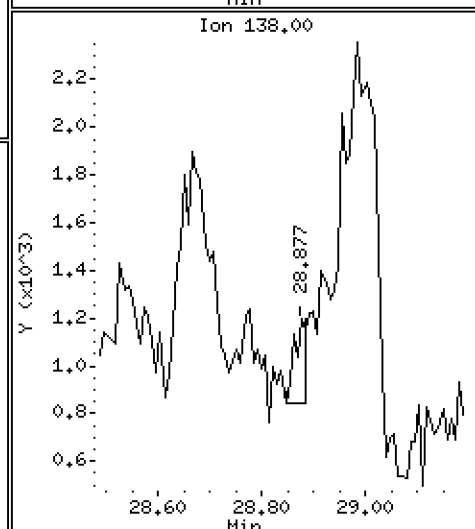
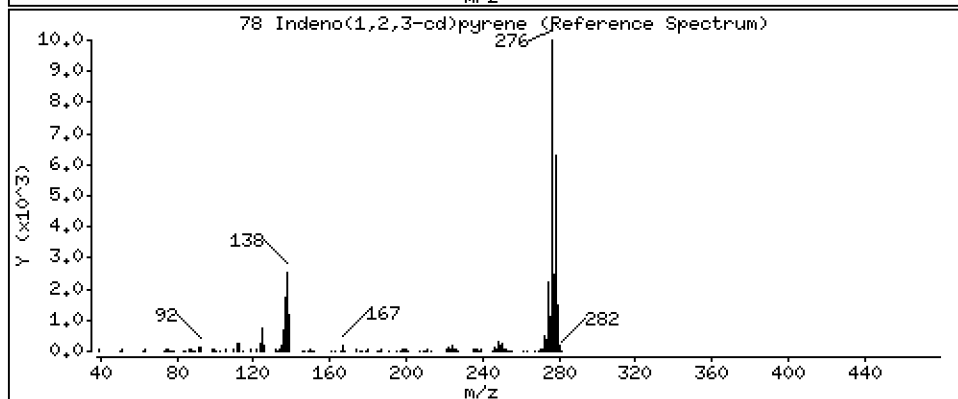
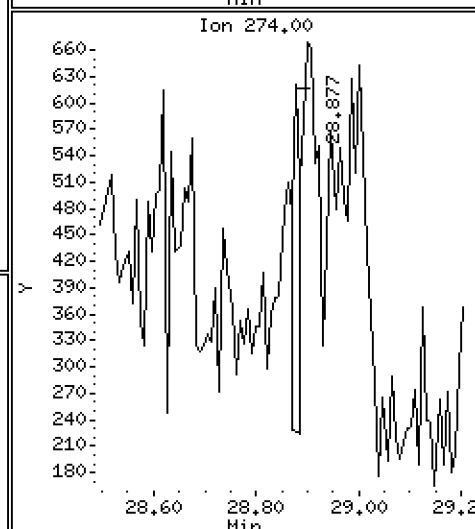
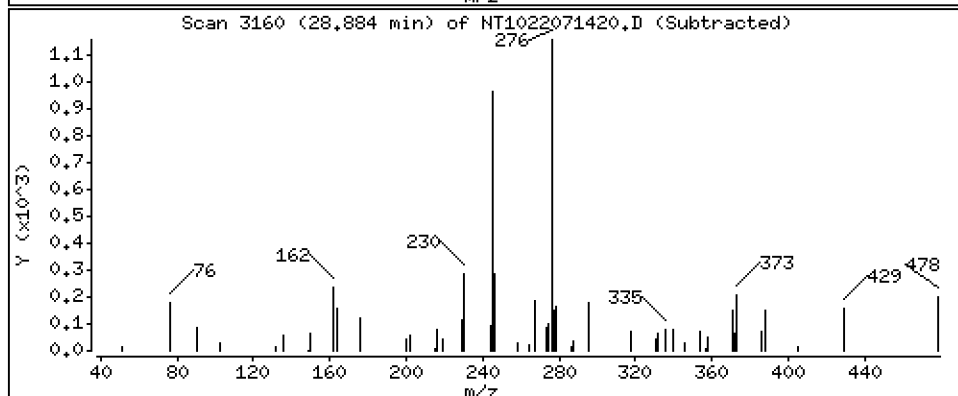
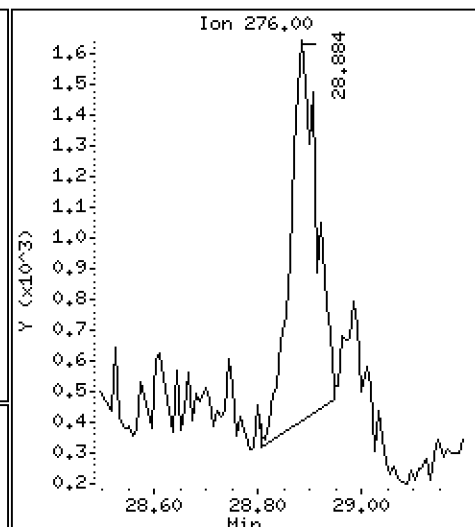
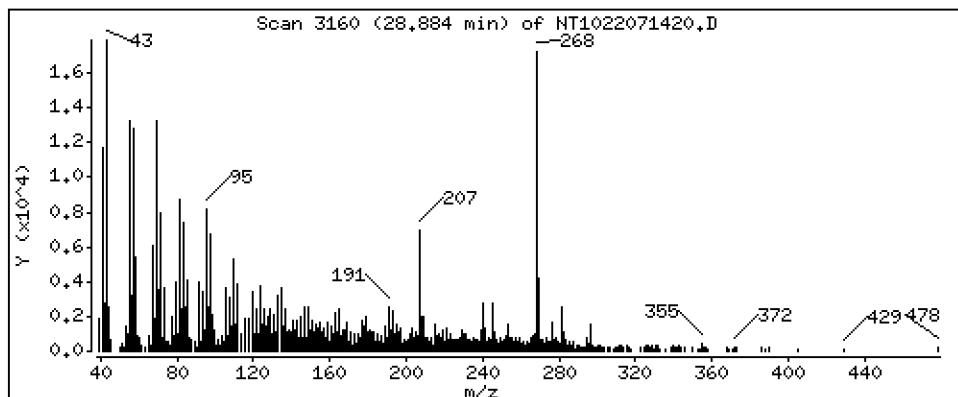
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,1031 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-13

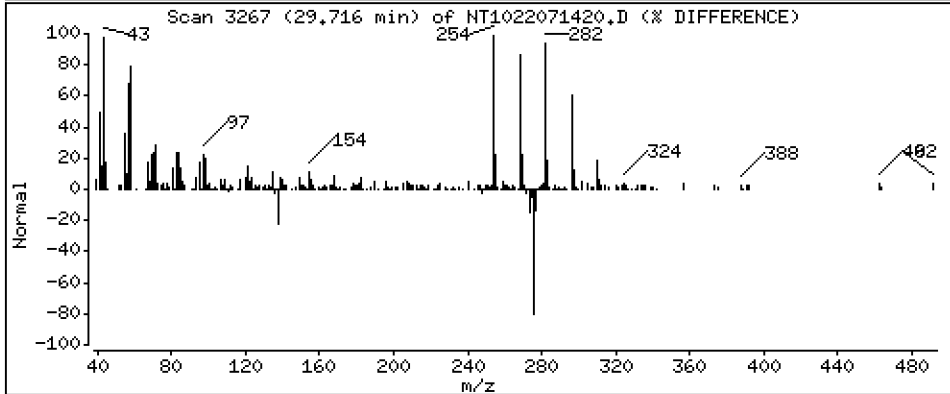
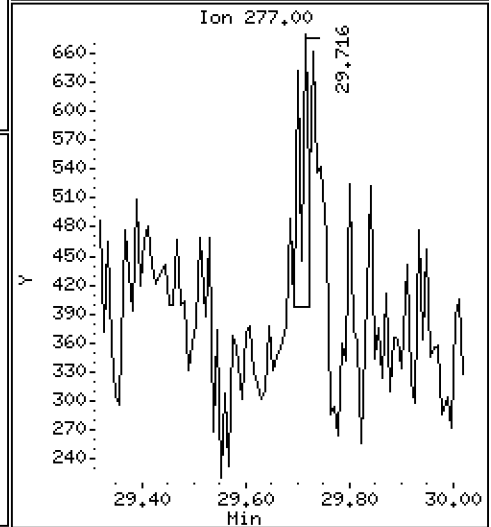
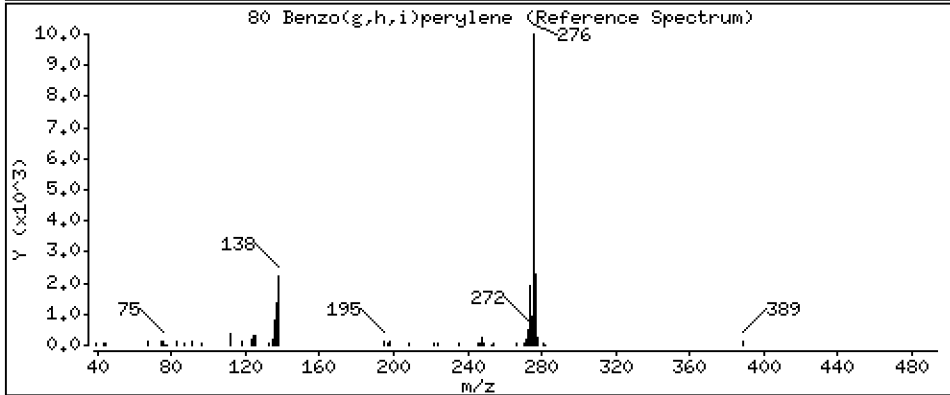
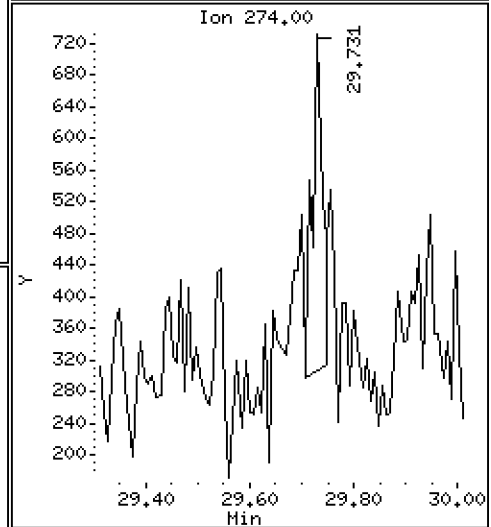
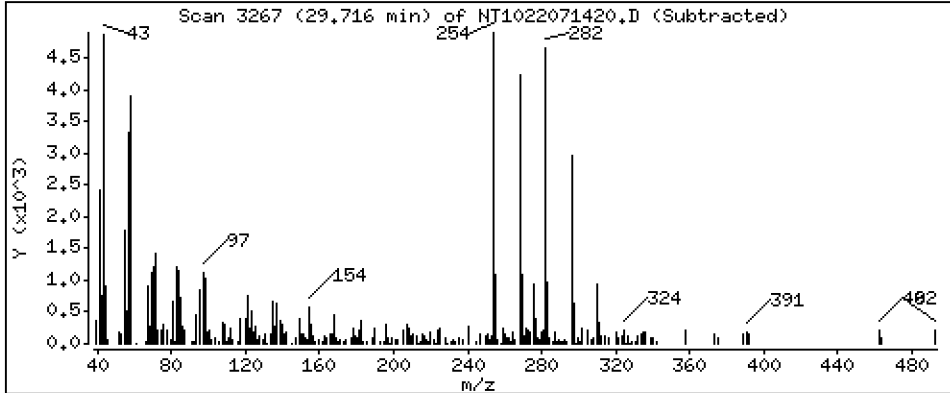
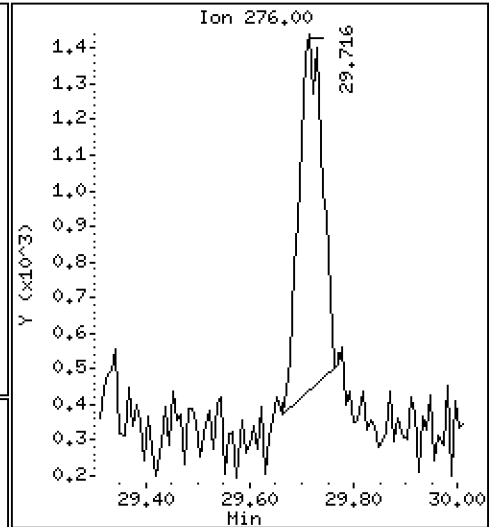
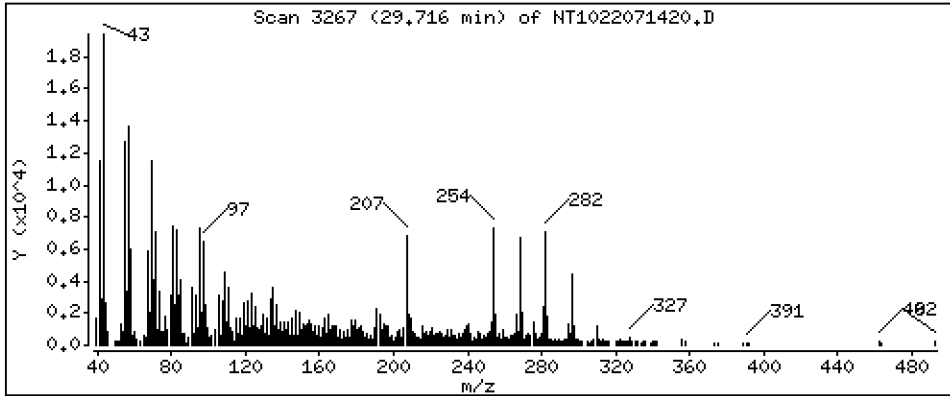
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,09107 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-13

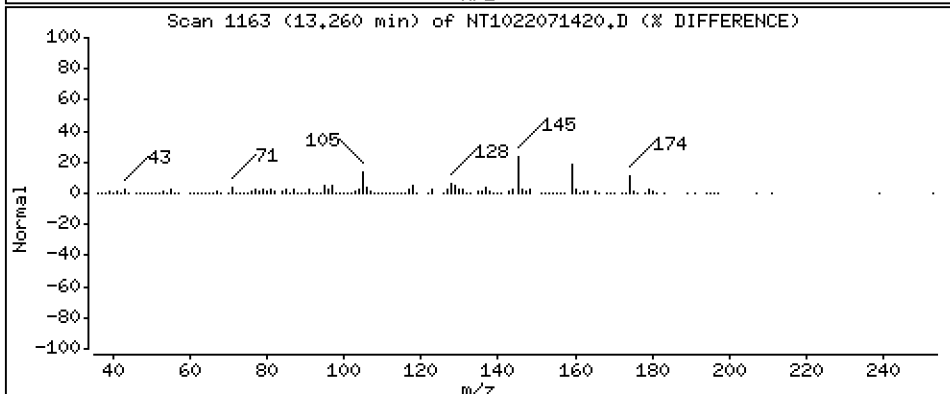
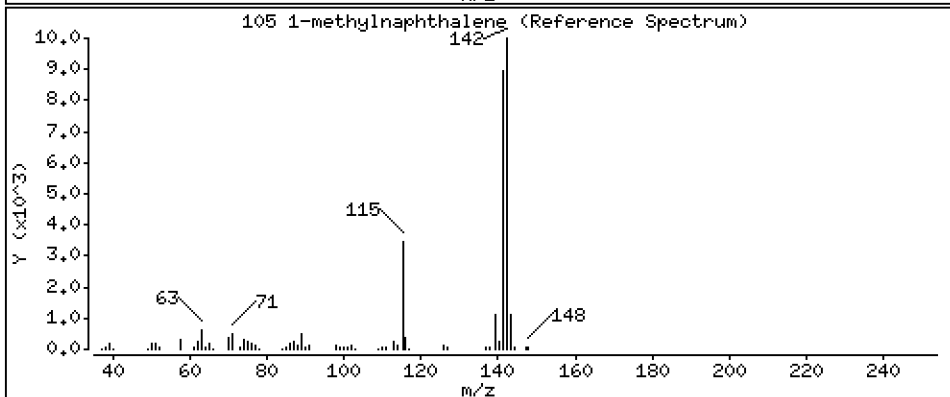
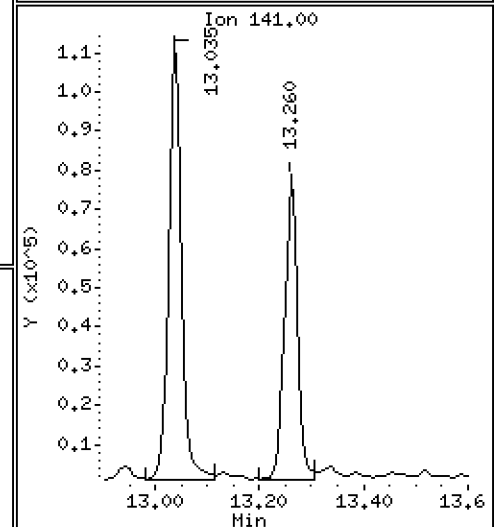
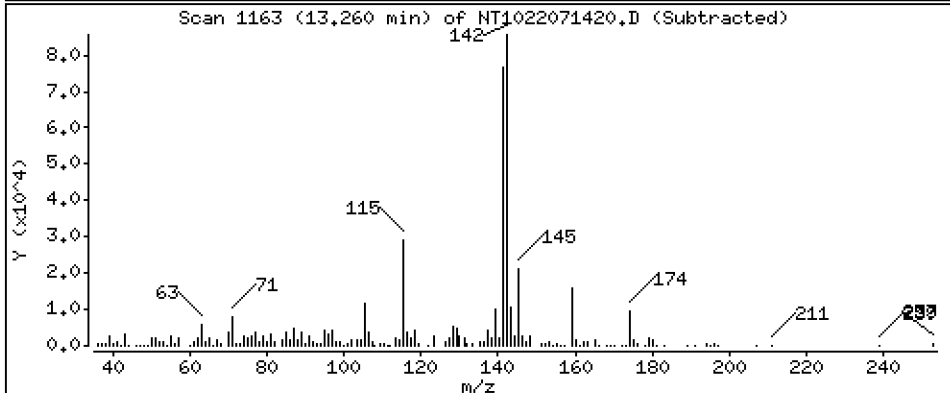
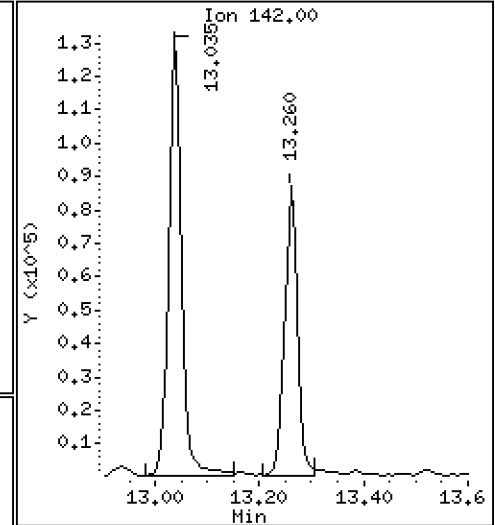
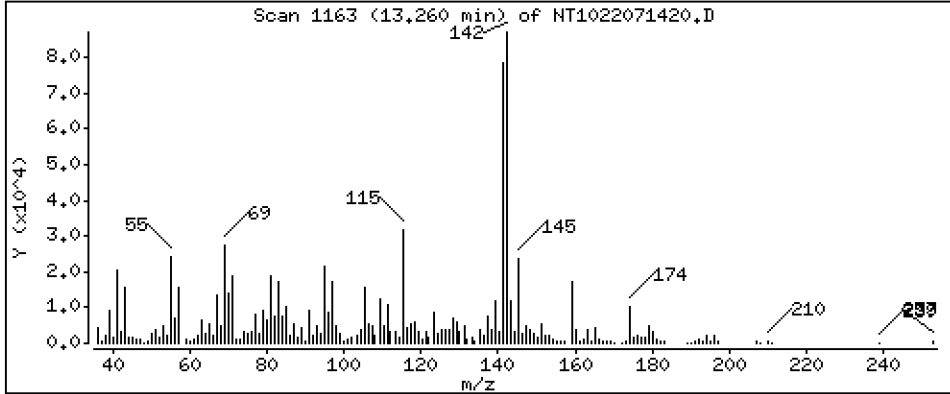
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,7118 ug/mL



Date : 15-JUL-2022 02:01

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-13

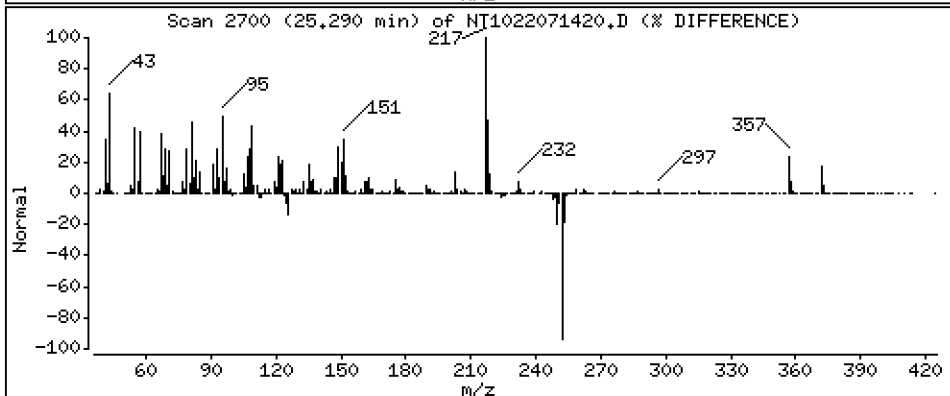
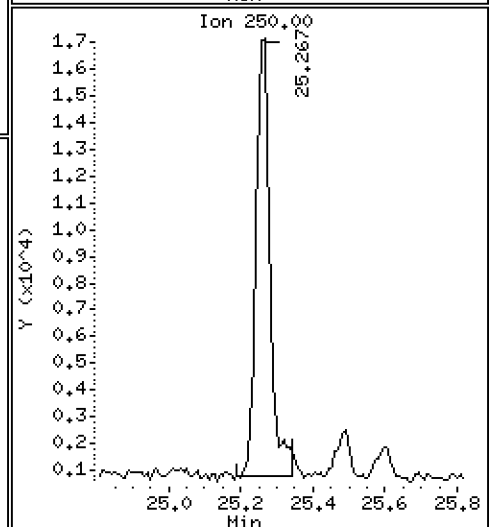
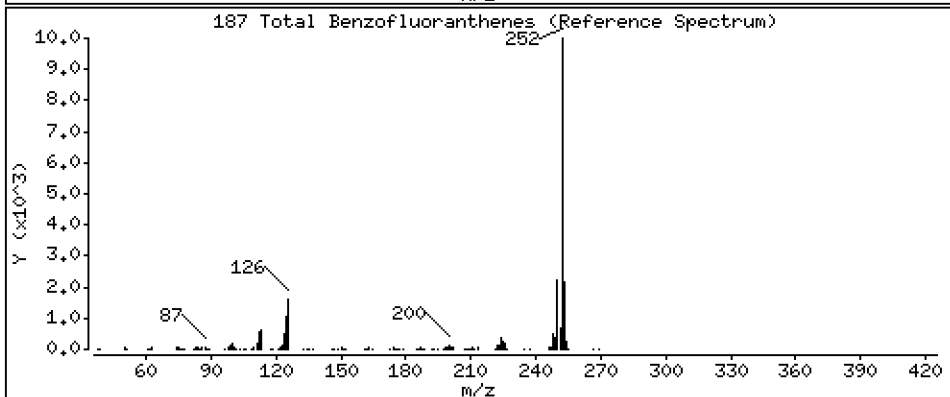
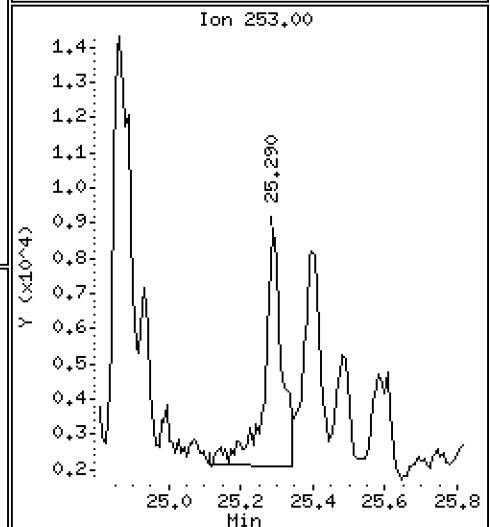
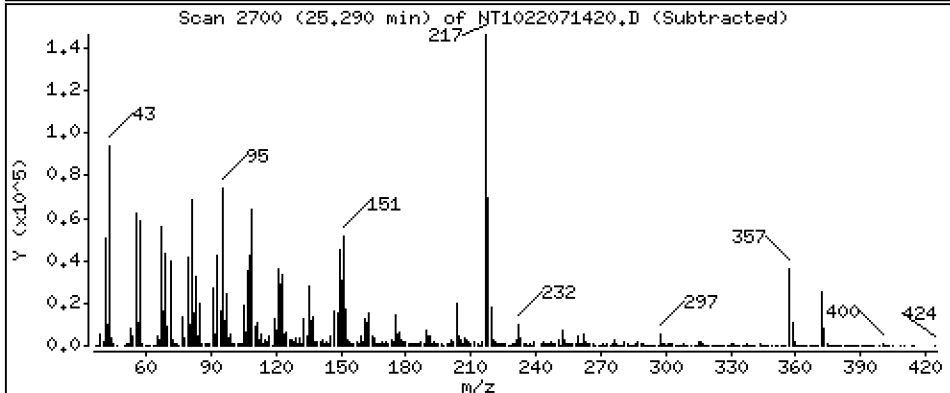
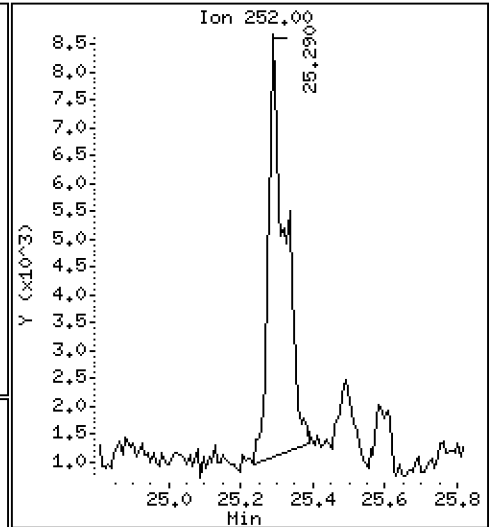
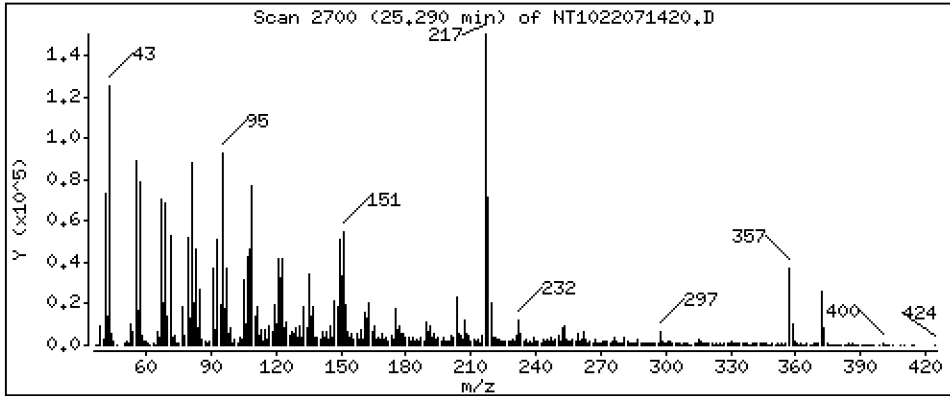
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,5287 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071420.D
 Lab Smp Id: 22G0019-13
 Inj Date : 15-JUL-2022 02:01
 Operator : VTS
 Smp Info : 22G0019-13
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 14-Jul-2022 14:47 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.921	6.906	(0.760)	406712	4.60959	4.610
\$ 2 Phenol-d5	99		8.521	8.490	(0.935)	561691	4.29045	4.290
3 Phenol	94		8.536	8.513	(0.937)	53994	0.47331	0.4733
\$ 5 2-Chlorophenol-d4	132		8.768	8.753	(0.963)	534411	5.94432	5.944
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.101	(1.000)	241629	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.466	9.466	(1.039)	267687	4.83205	4.832
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		10.203	10.195	(0.880)	368547	4.27783	4.278
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		11.131	11.165	(0.960)	50760	1.47578	1.476 (M)
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.596	11.589	(1.000)	809660	4.00000	
28 Naphthalene	128		11.635	11.627	(1.003)	46953	0.22659	0.2266
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		13.035	13.027	(1.124)	229727	1.11548	1.115
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.817	13.809	(0.908)	839856	6.04923	6.049
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152							
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.217	15.210	(1.000)	306803	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.295	15.279	(1.005)	10518	0.11788	0.1179
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.619	15.612	(1.026)	17880	0.12609	0.1261
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149		16.184	16.176	(1.064)	26565	0.28783	0.2878
49 Fluorene	166		16.338	16.323	(1.074)	22353	0.13192	0.1319
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.886	16.870	(1.110)	38730	2.78999	2.790
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.292	18.269	(1.000)	328928	4.00000	
60 Phenanthrene	178		18.339	18.316	(1.003)	52371	0.60604	0.6060
61 Anthracene	178		18.432	18.416	(1.008)	31189	0.33868	0.3387
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.753	20.722	(0.888)	27640	0.26231	0.2623
65 Pyrene	202		21.178	21.147	(0.906)	82214	0.88735	0.8874
\$ 66 Terphenyl-d14	244		21.457	21.434	(0.918)	230553	4.41527	4.415
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.354	23.331	(0.999)	10109	0.15943	0.1594
* 69 Chrysene-d12	240		23.377	23.362	(1.000)	149632	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.424	23.408	(1.002)	11302	0.26902	0.2690
72 bis(2-Ethylhexyl)phthalate	149		23.416	23.400	(0.959)	48749	1.47649	1.476
* 134 Di-n-octylphthalate-d4	153		24.422	24.407	(1.000)	298709	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252		25.289	25.266	(0.969)	19869	0.40578	0.4058
75 Benzo(k)fluoranthene	252		25.336	25.313	(0.971)	6411	0.13616	0.1362 (M)
76 Benzo(a)pyrene	252		25.994	25.948	(0.996)	13519	0.33734	0.3373
* 77 Perylene-d12	264		26.102	26.064	(1.000)	108117	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.884	28.845	(1.107)	4410	0.10307	0.1031 (M)
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276		29.715	29.661	(1.138)	3115	0.09107	0.09107 (M)
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.259	13.252	(1.143)	144029	0.71185	0.7118
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
187 Total Benzofluoranthenes	252		25.289	25.313	(0.969)	24139	0.52874	0.5287 (M)	
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.						

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071420.D Calibration Time: 14:12
 Lab Smp Id: 22G0019-13
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	241629	23.38
27 Naphthalene-d8	626038	313019	1252076	809660	29.33
42 Acenaphthene-d10	366612	183306	733224	306803	-16.31
59 Phenanthrene-d10	635137	317569	1270274	328928	-48.21
69 Chrysene-d12	270778	135389	541556	149632	-44.74
134 Di-n-octylphthala	507031	253516	1014062	298709	-41.09
77 Perylene-d12	170107	85054	340214	108117	-36.44

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.11	0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.07
42 Acenaphthene-d10	15.21	14.71	15.71	15.22	0.05
59 Phenanthrene-d10	18.27	17.77	18.77	18.29	0.13
69 Chrysene-d12	23.36	22.86	23.86	23.38	0.07
134 Di-n-octylphthala	24.41	23.91	24.91	24.42	0.06
77 Perylene-d12	26.06	25.56	26.56	26.10	0.15

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

REVIEW SUMMARY FOR FILE - NT1022071420.D

Lab ID: 22G0019-13
nt10.i, ABN.m, 15-JUL-2022 02:01

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022071402.D

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

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

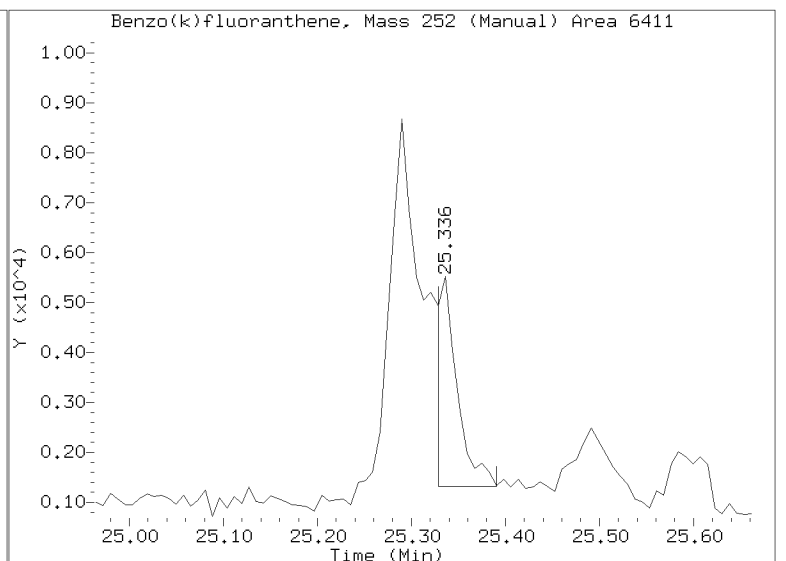
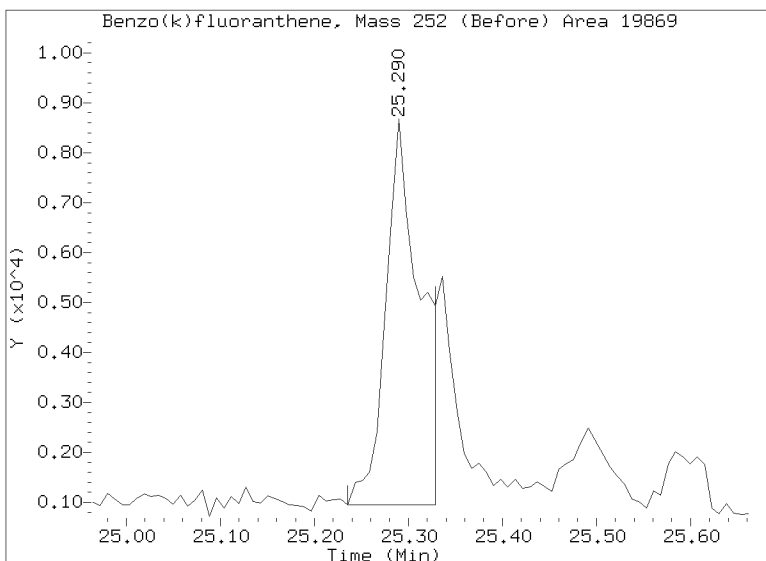
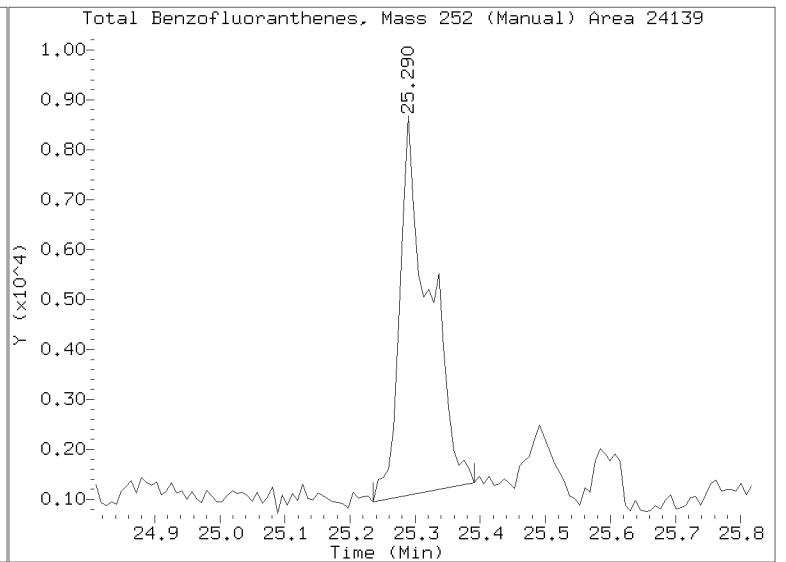
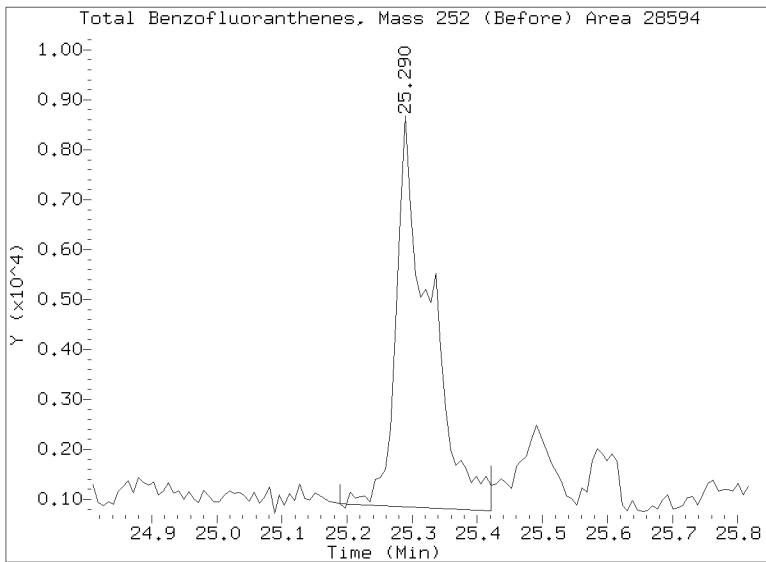
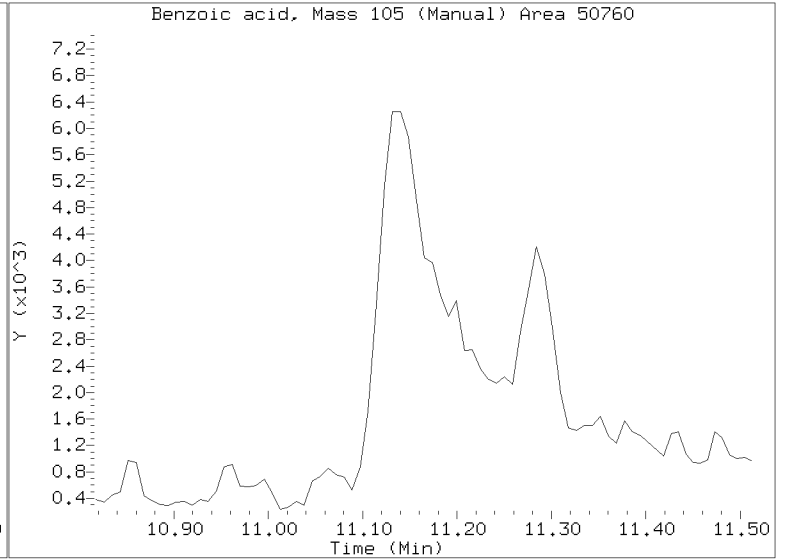
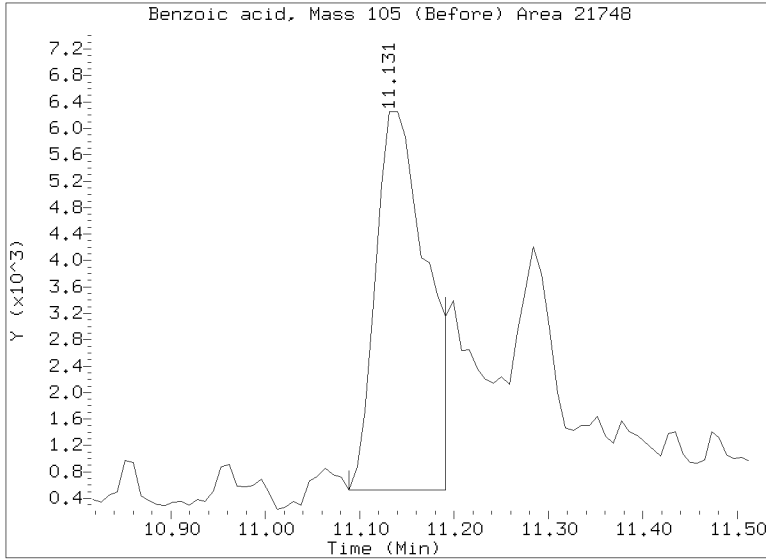
Quant Ion Manual Peak Adjustment Report

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Injection Date: 15-JUL-2022 02:01

Lab ID:22G0019-13 Client ID:

Report Date: 07/19/2022 12:56



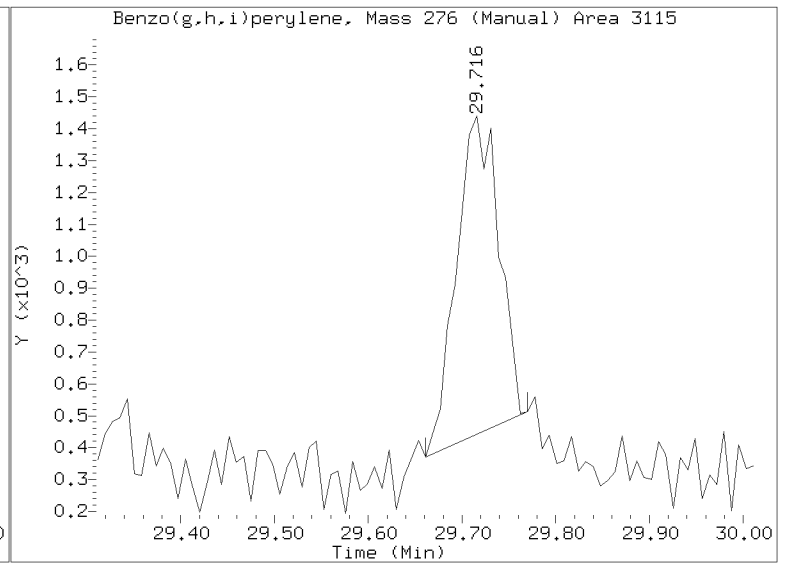
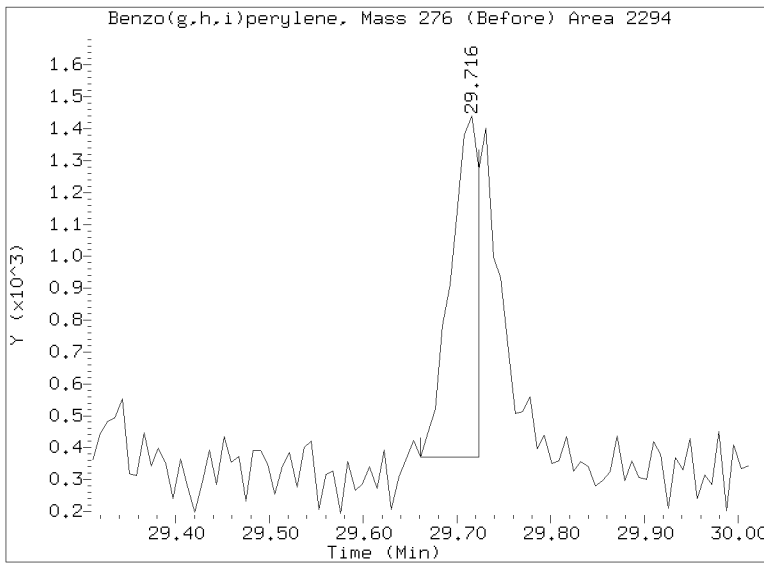
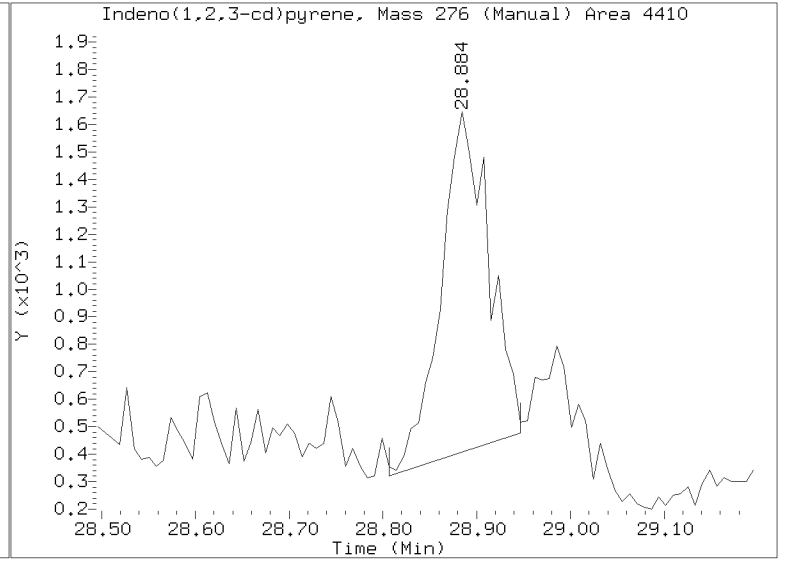
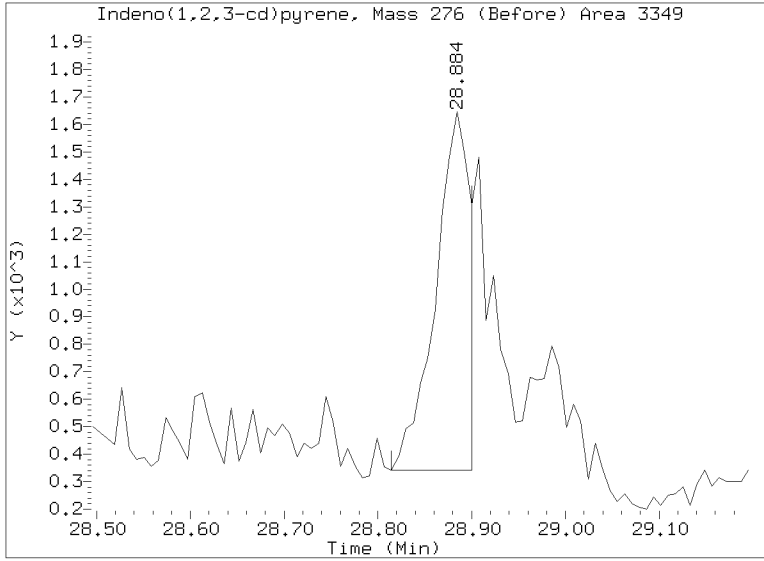
Quant Ion Manual Peak Adjustment Report

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Injection Date: 15-JUL-2022 02:01

Lab ID:22G0019-13 Client ID:

Report Date: 07/19/2022 12:56





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

Laboratory: Analytical Resources, LLC
 Client: GeoEngineers
 Project: RG Haley Site-Bellingham
 Matrix: Solid Laboratory ID: 22G0019-15 A SDG: 22G0019
 Sampled: 06/29/22 12:40 Prepared: 07/07/22 10:01 File ID: NT1022071519.D
 % Solids: 56.93 Preparation: EPA 3546 (Microwave) Analyzed: 07/15/22 23:53
 Batch: BKG0069 Sequence: SKG0154 Initial/Final: 17.59 g Wet / 1 mL
 Instrument: NT10 Column: ZB-5MSi Calibration: FF00062
 Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	5	475	D	21.2	99.9
91-57-6	2-Methylnaphthalene	5	1890	D	22.5	99.9
83-32-9	Acenaphthene	5	150	D	26.1	99.9
87-86-5	Pentachlorophenol	5	563	M, Q, D	156	499
85-01-8	Phenanthrene	5	669	D	43.5	99.9
206-44-0	Fluoranthene	5	467	Q, D	30.4	99.9
56-55-3	Benzo(a)anthracene	5	180	D	29.8	99.9
218-01-9	Chrysene	5	347	Q, D	30.3	99.9
205-99-2	Benzo(b)fluoranthene	5	113	D	35.1	99.9
207-08-9	Benzo(k)fluoranthene	5	100	D	25.0	99.9
50-32-8	Benzo(a)pyrene	5	128	D	21.1	99.9
193-39-5	Indeno(1,2,3-cd)pyrene	5	73.1	U	73.1	99.9
53-70-3	Dibenzo(a,h)anthracene	5	86.0	U	86.0	99.9
90-12-0	1-Methylnaphthalene	5	957	D	26.3	99.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.95	531	70.9	27 - 120	
Phenol-d5	748.95	470	62.8	29 - 120	
2-Chlorophenol-d4	748.95	656	87.6	31 - 120	
1,2-Dichlorobenzene-d4	499.30	428	85.8	32 - 120	
Nitrobenzene-d5	499.30	461	92.4	30 - 120	
2-Fluorobiphenyl	499.30	934	187	35 - 120	*
2,4,6-Tribromophenol	748.95	252	33.6	24 - 134	
p-Terphenyl-d14	499.30	405	81.0	37 - 120	Q

Data File: \\target\share\chem3\nt10.1\20220715.6\NT1022071519.D

Date: 15-JUL-2022 23:53

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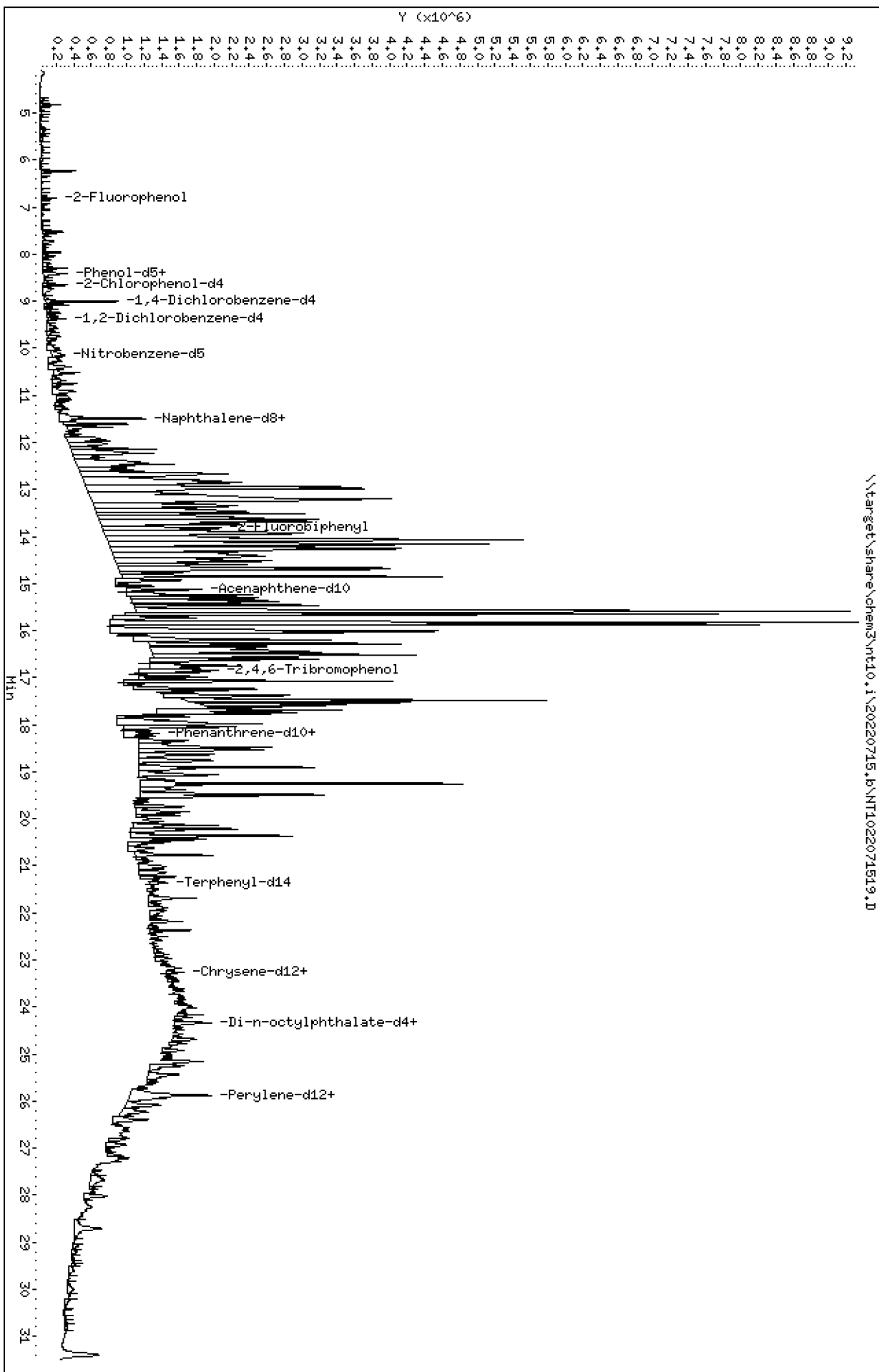
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

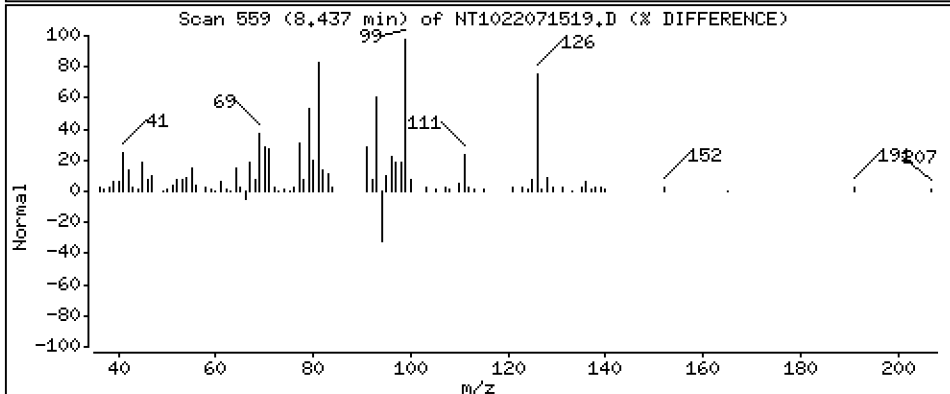
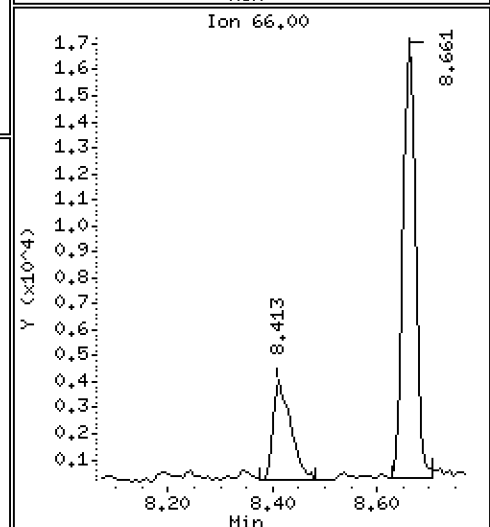
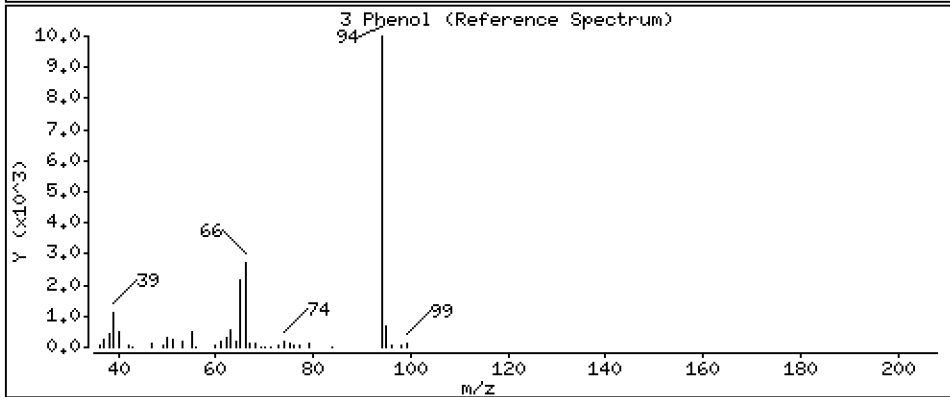
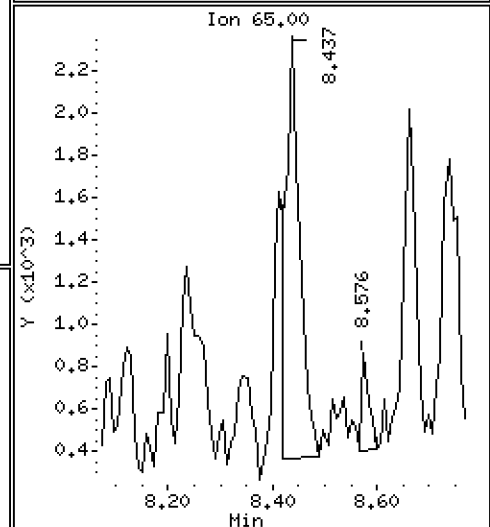
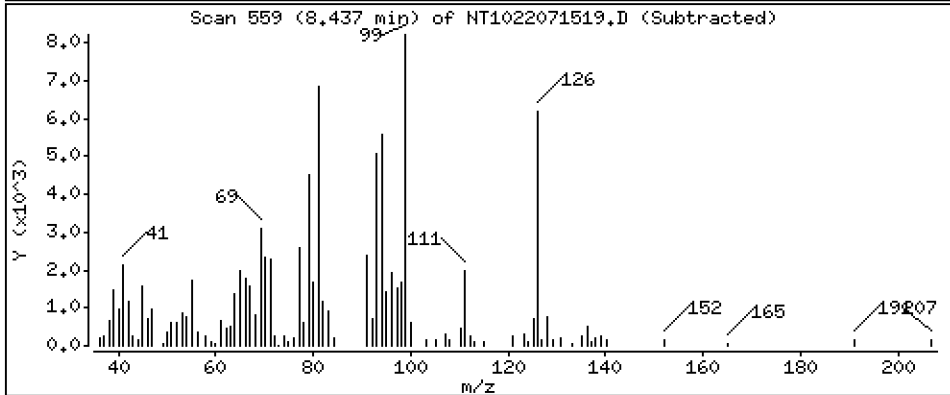
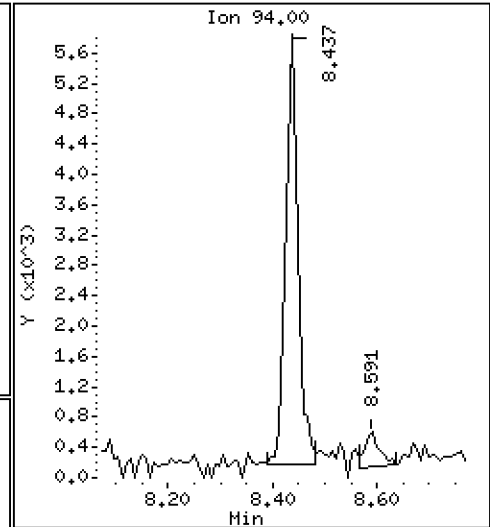
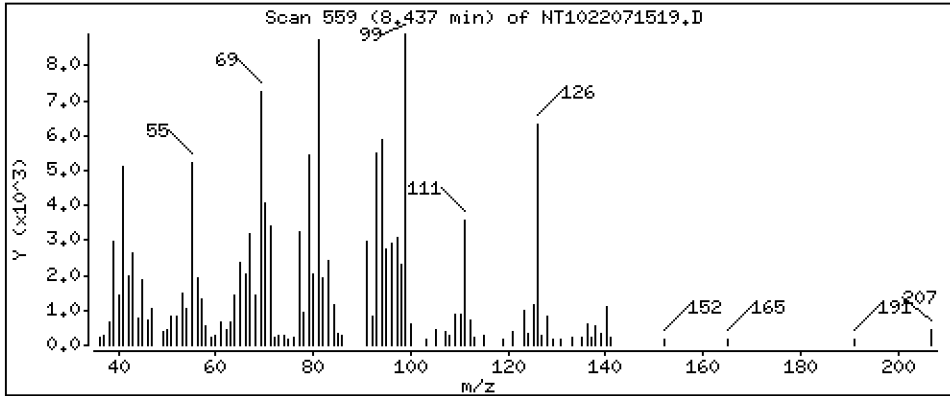
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,3831 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

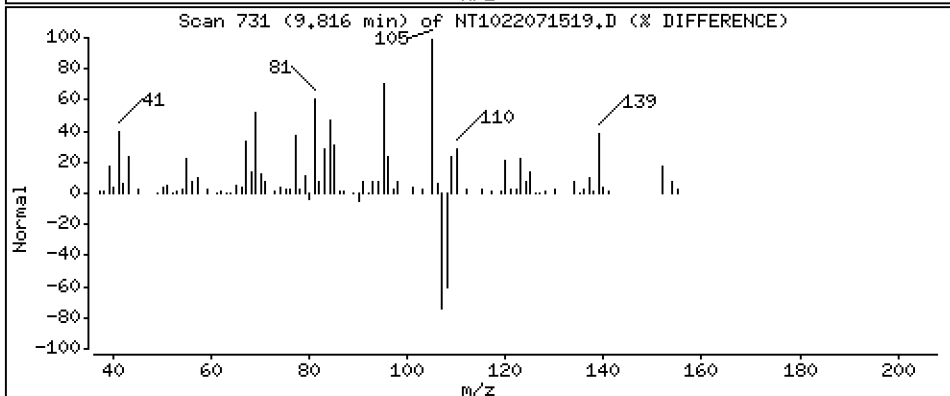
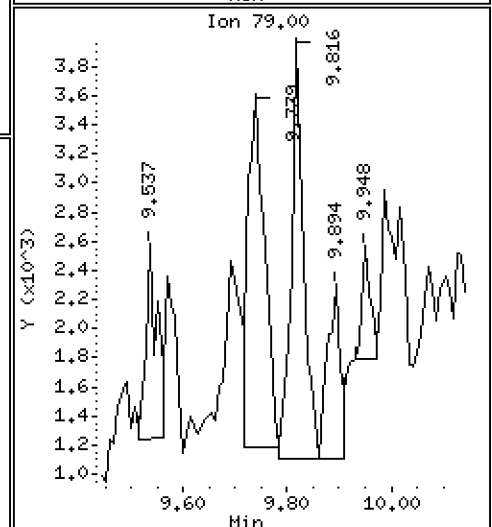
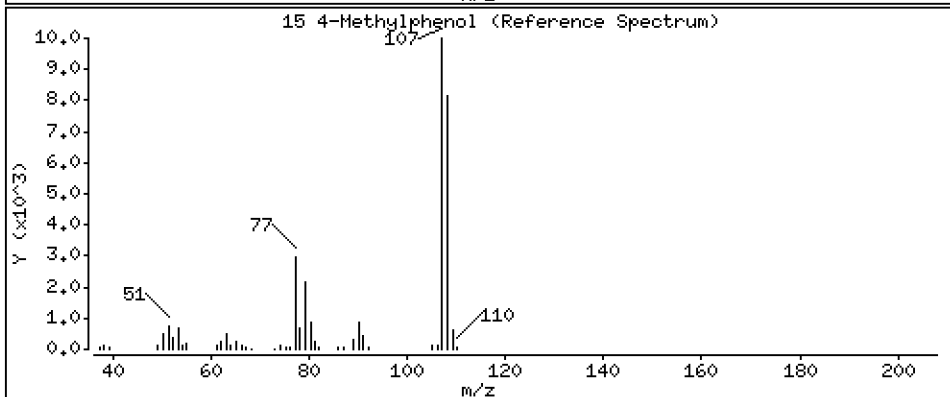
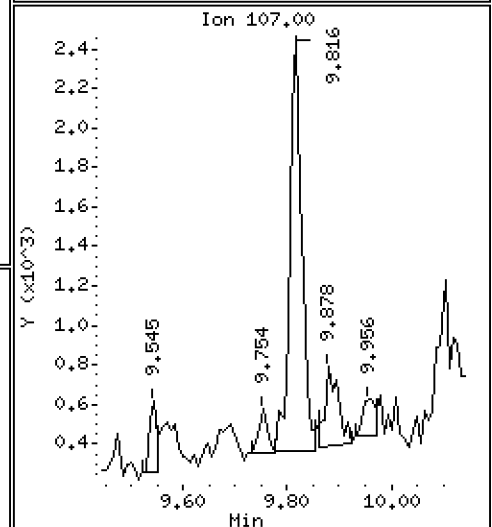
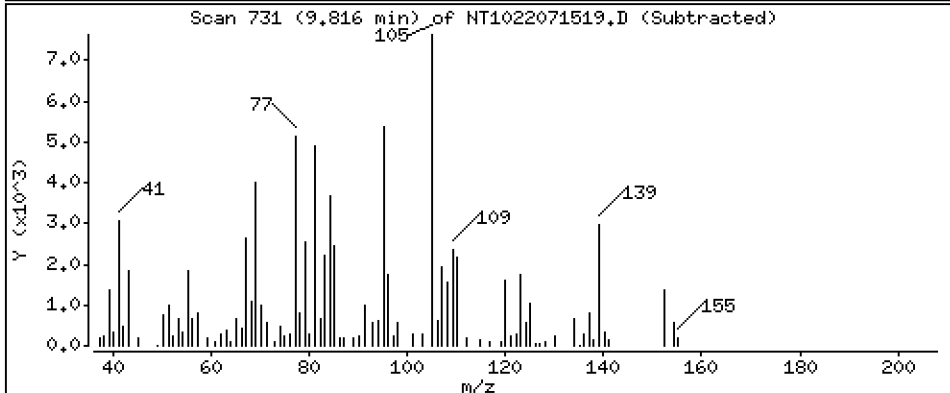
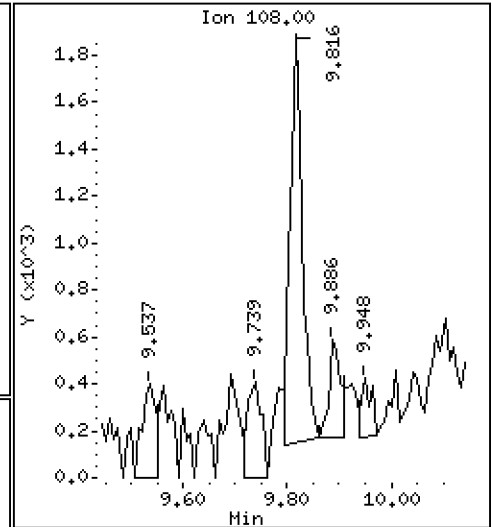
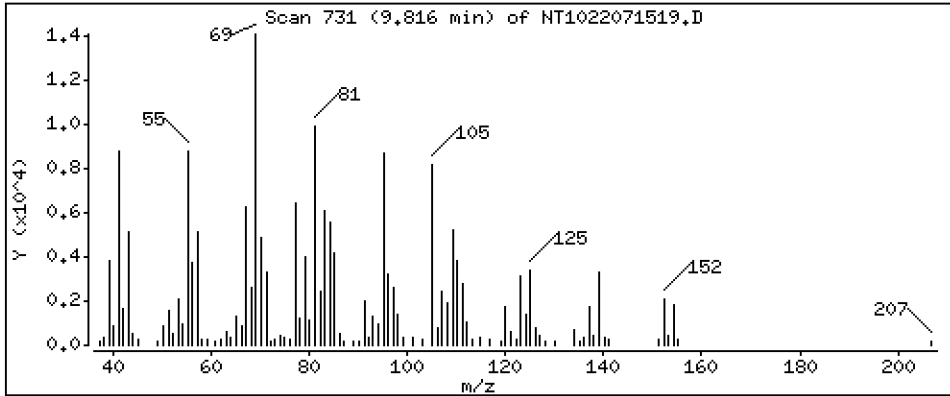
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,1926 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

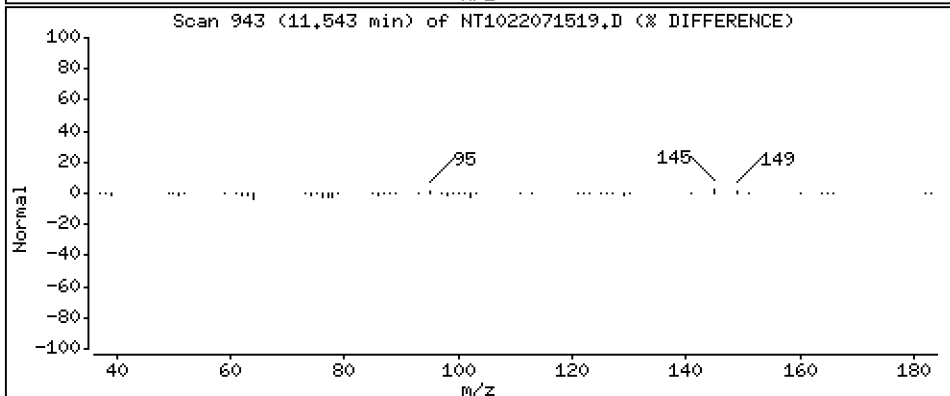
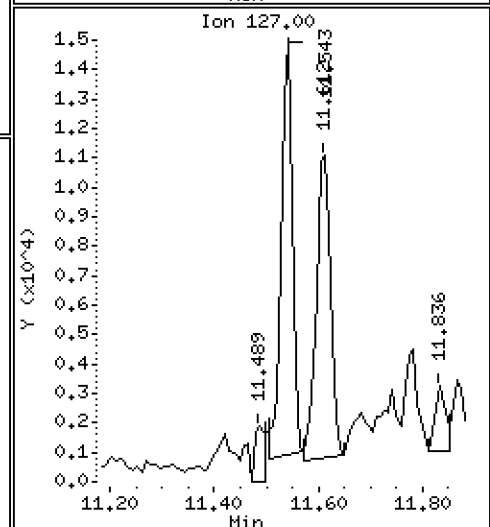
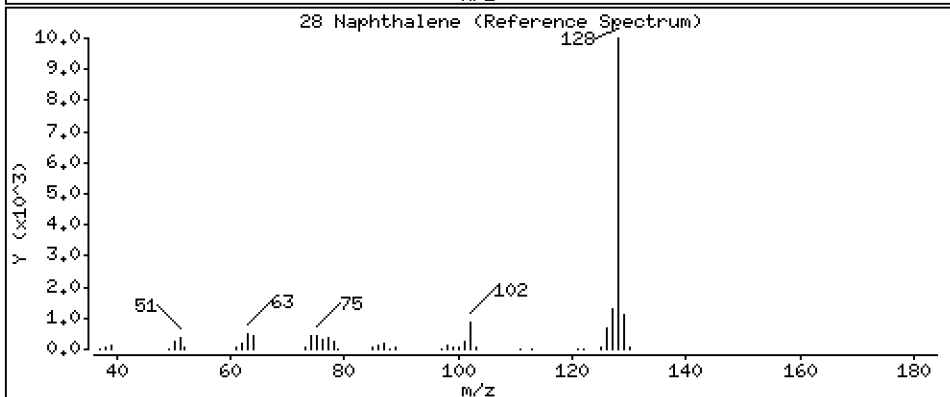
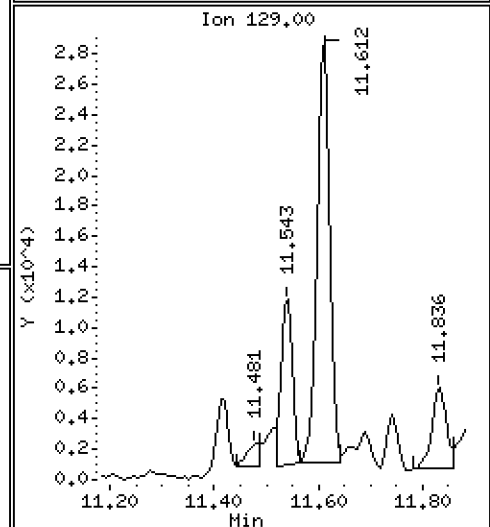
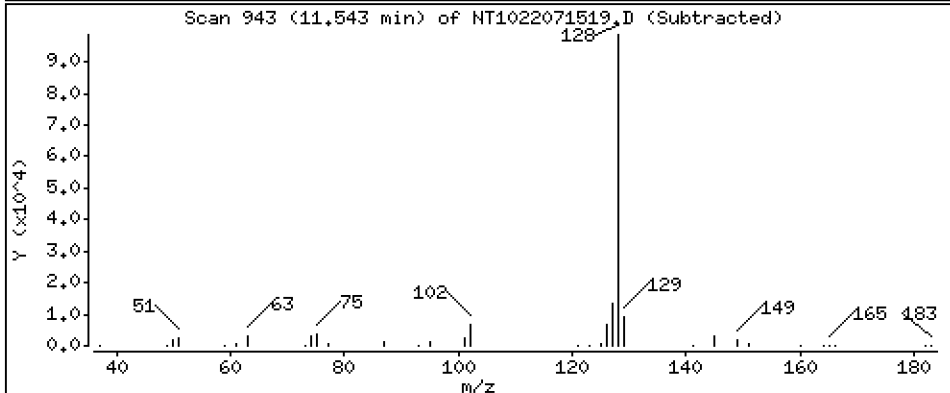
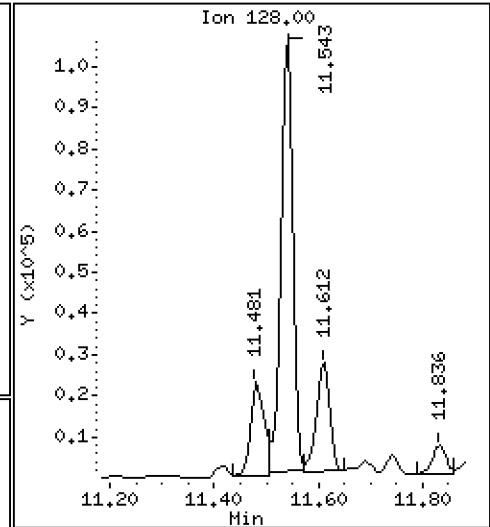
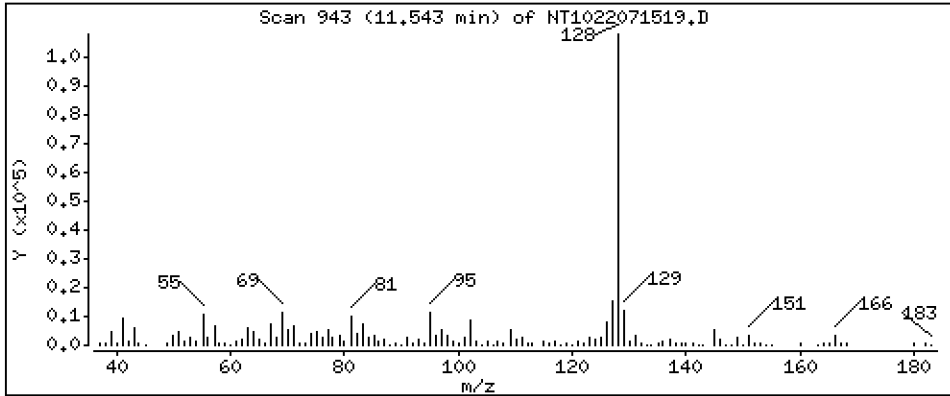
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,761 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15,5

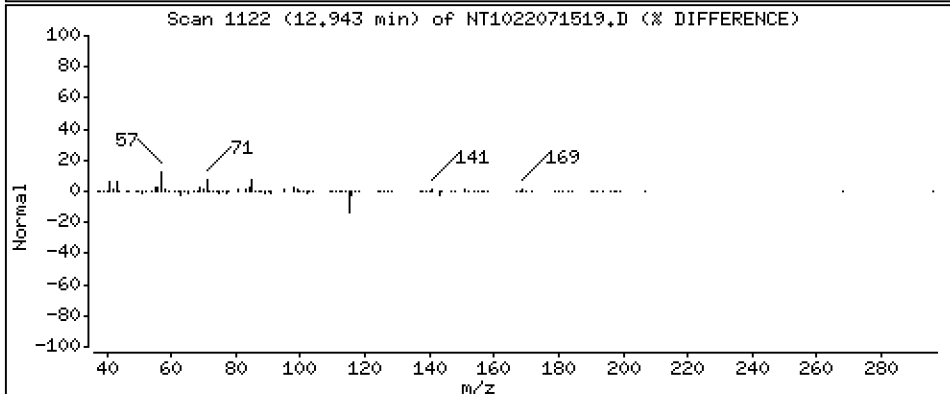
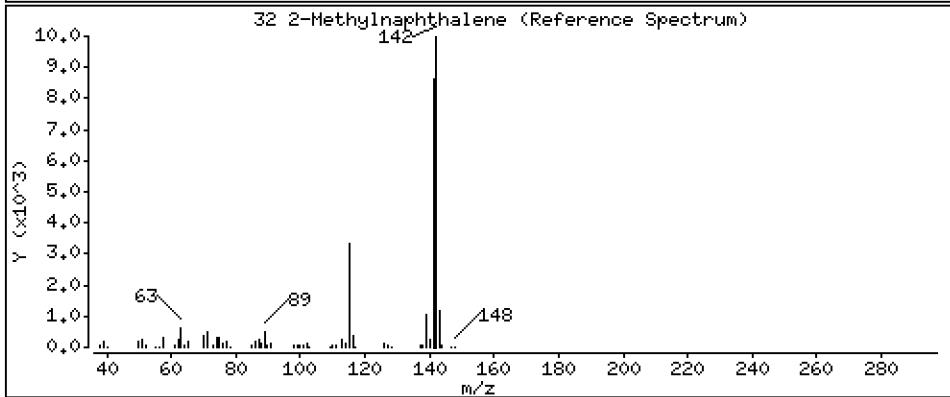
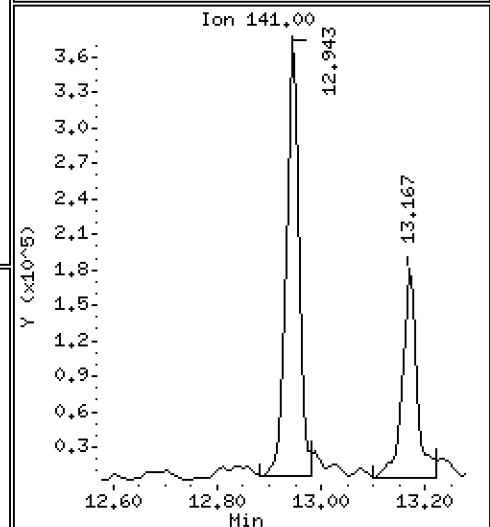
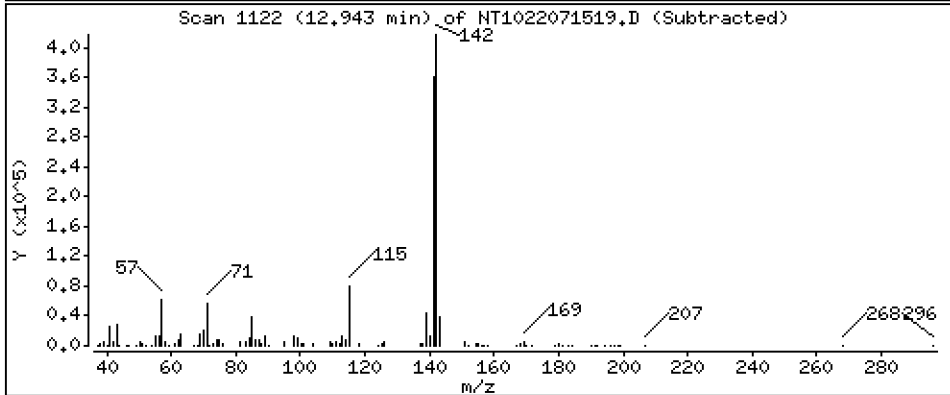
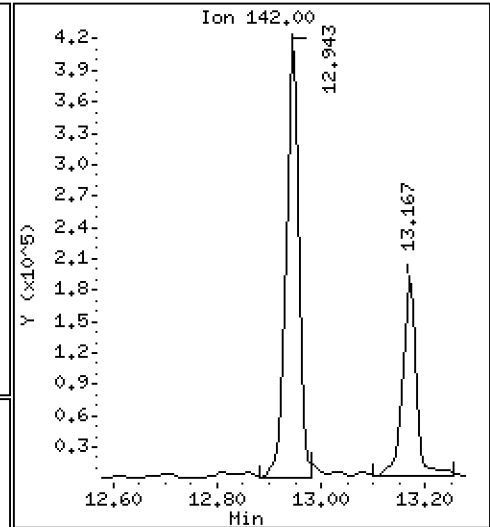
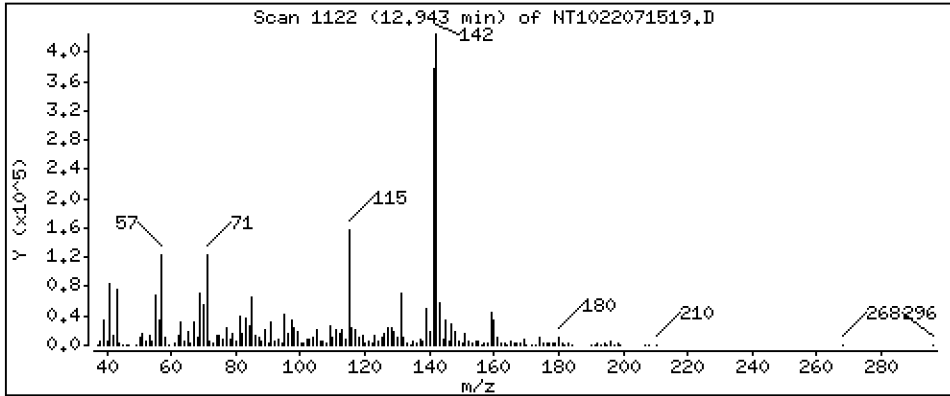
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 18,90 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

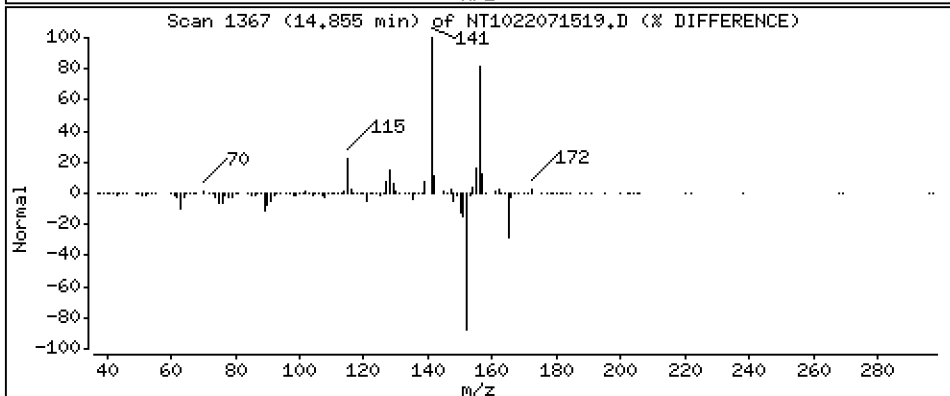
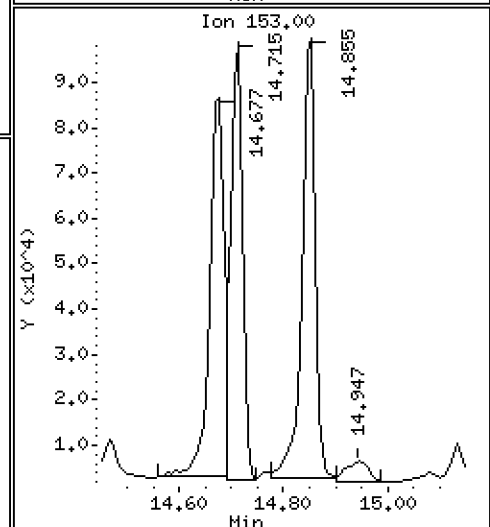
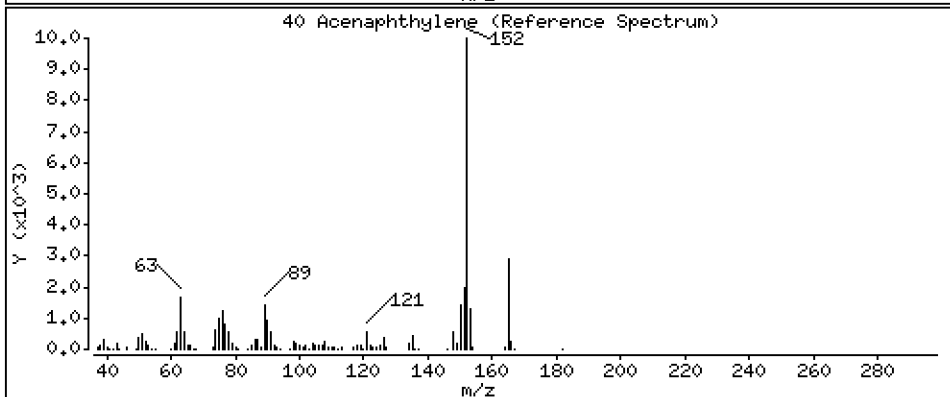
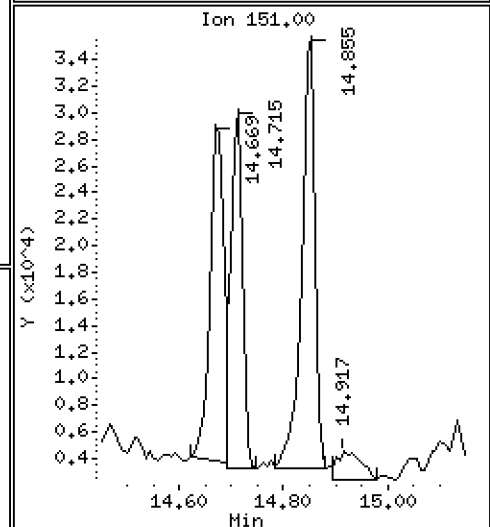
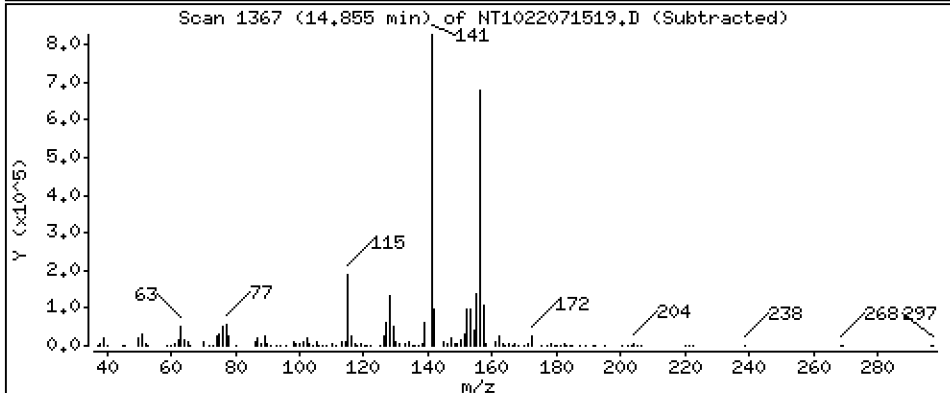
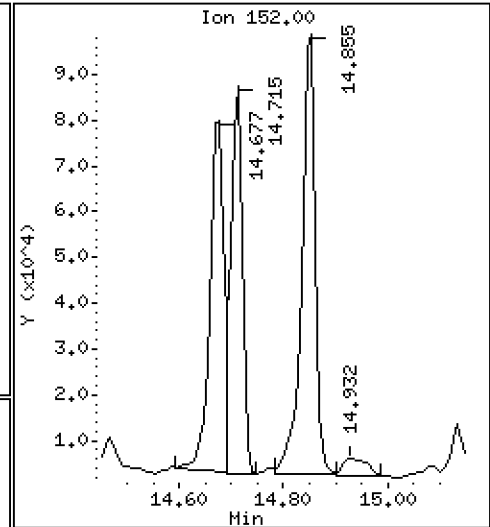
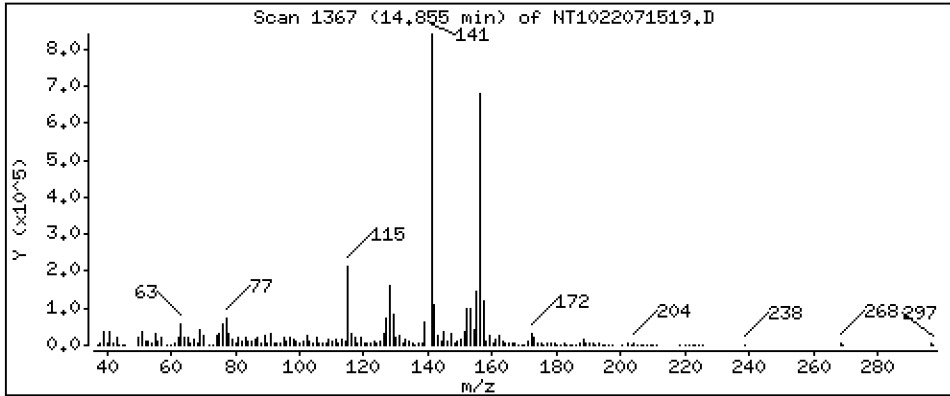
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 11,80 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15,5

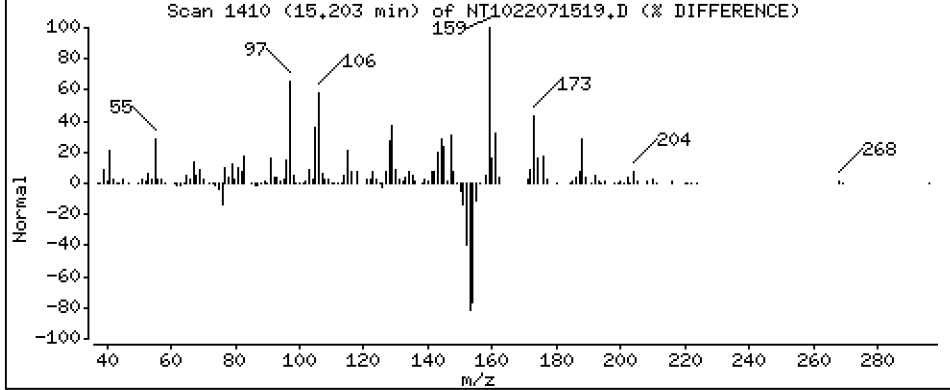
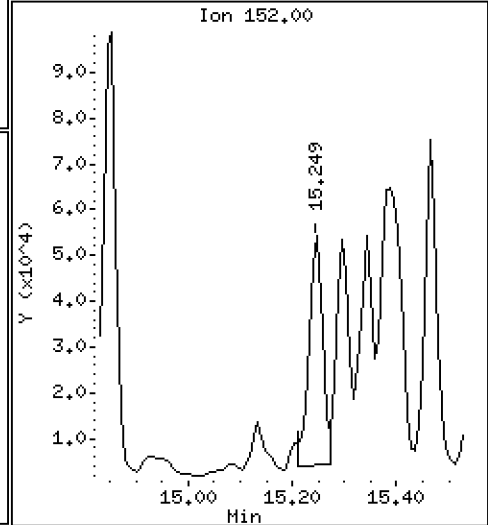
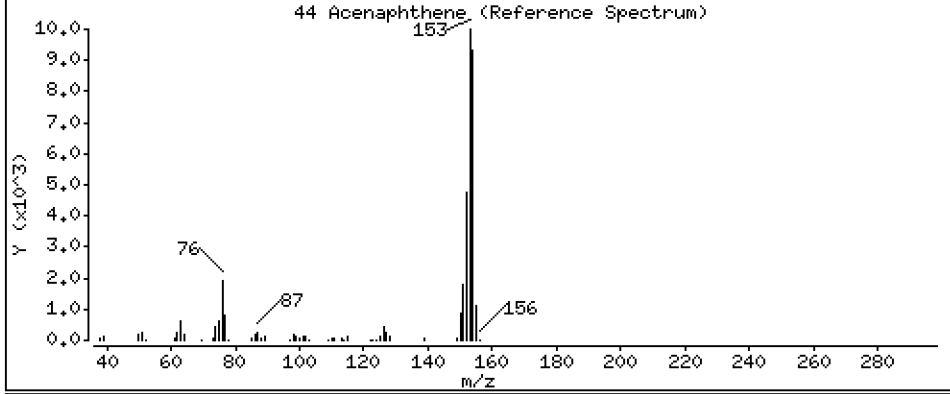
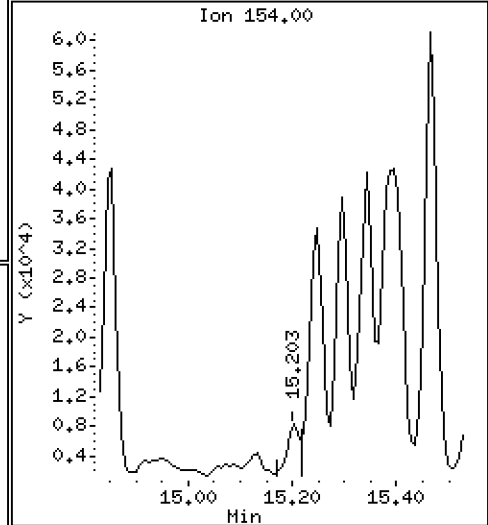
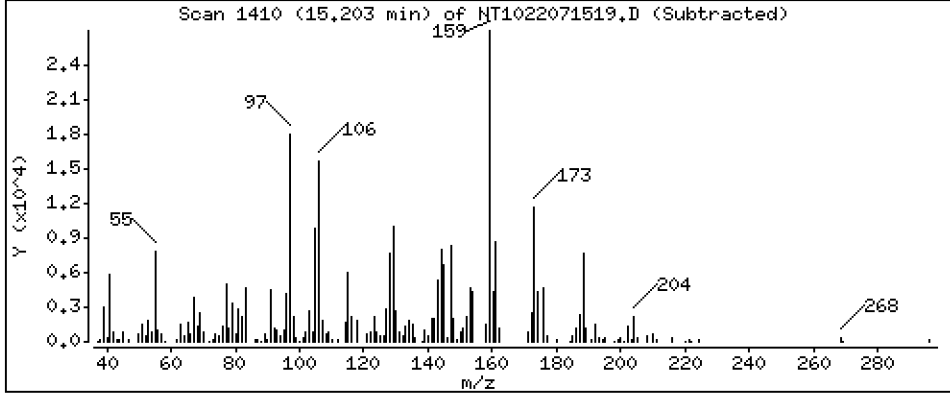
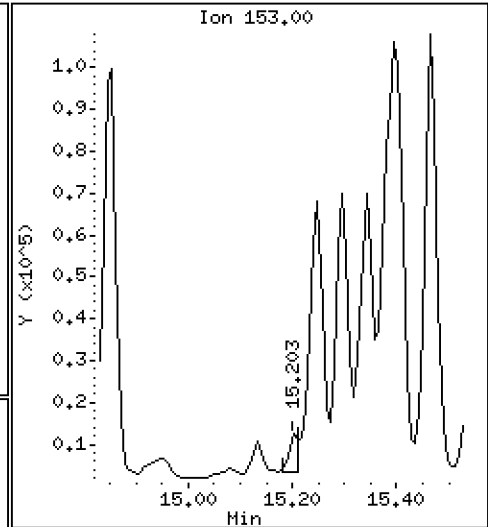
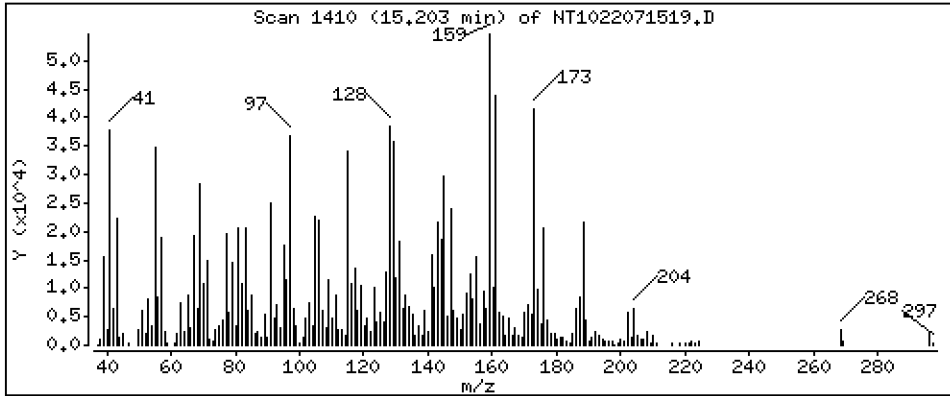
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 1,497 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

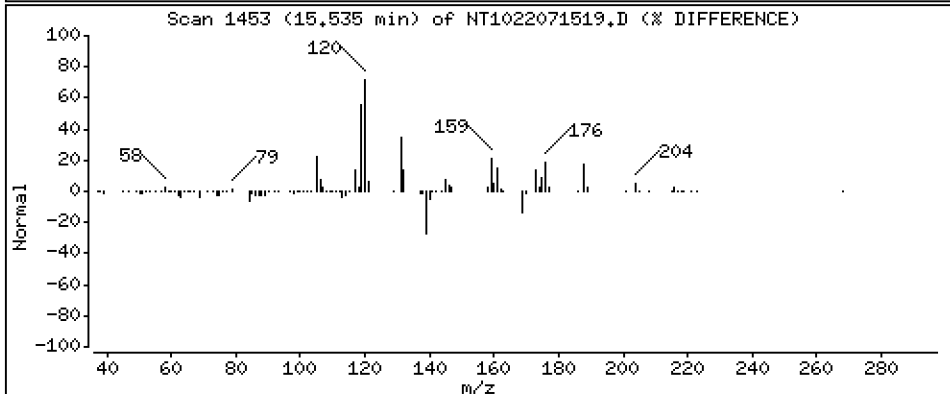
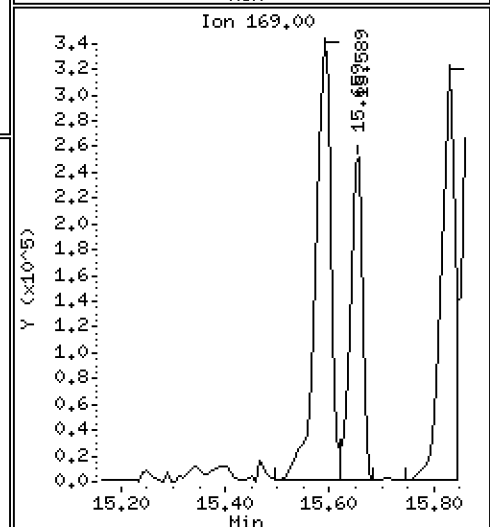
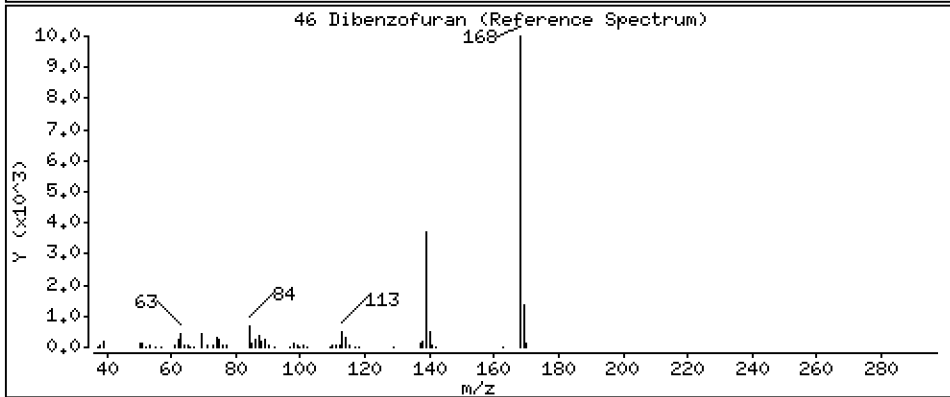
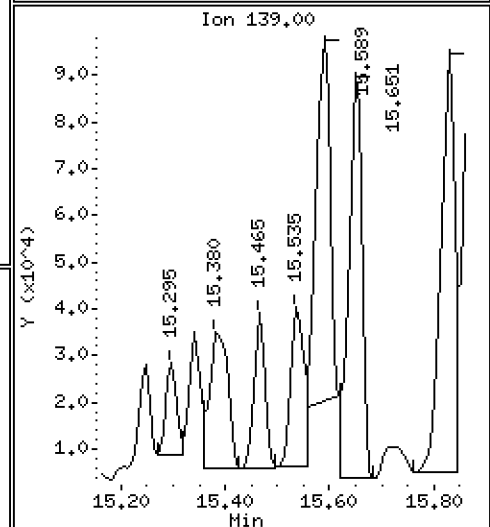
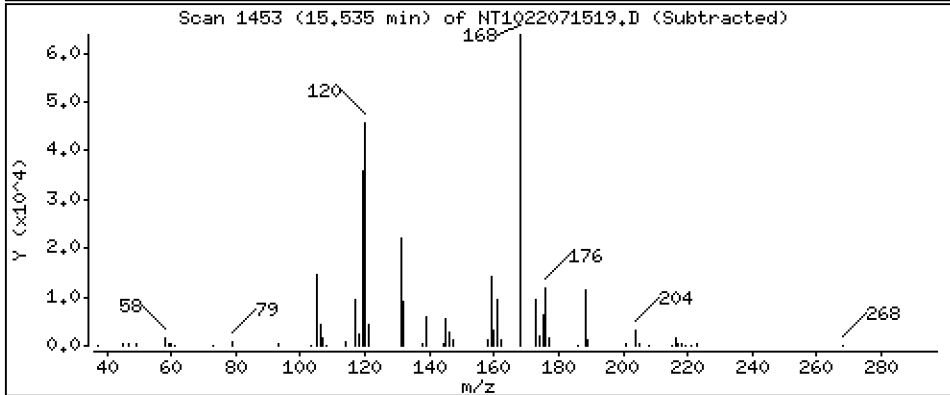
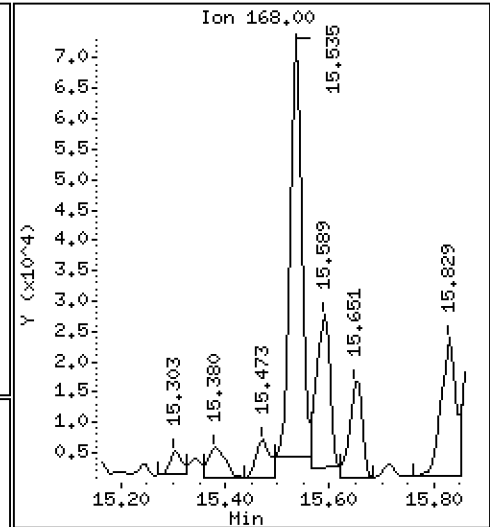
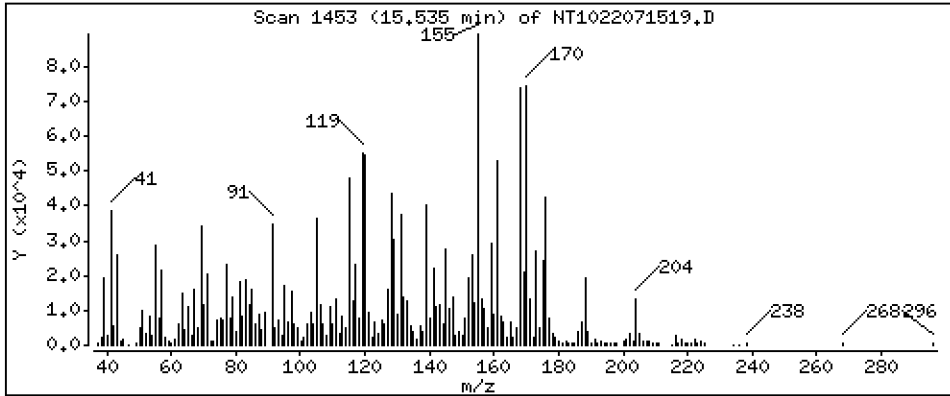
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 9,431 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

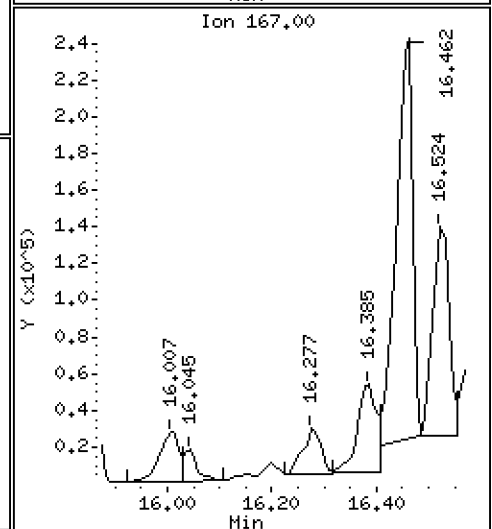
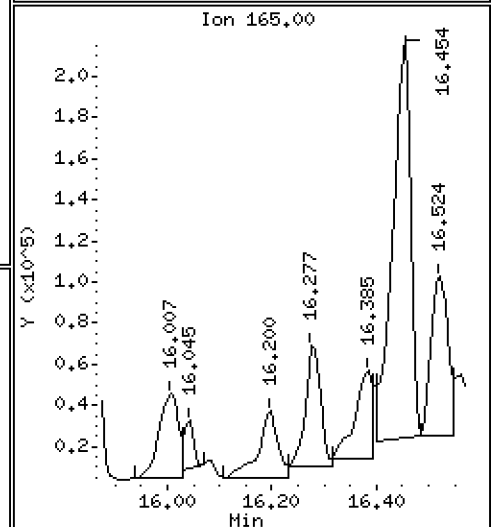
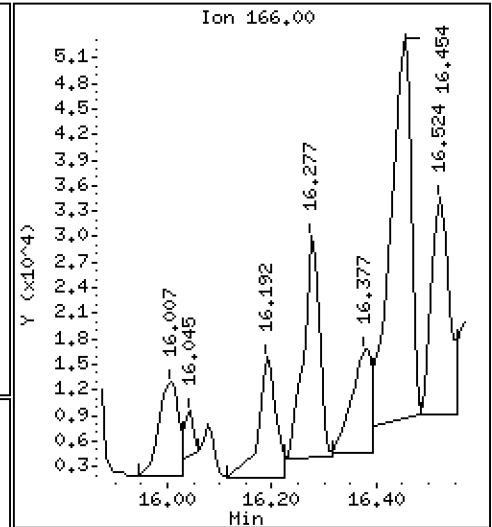
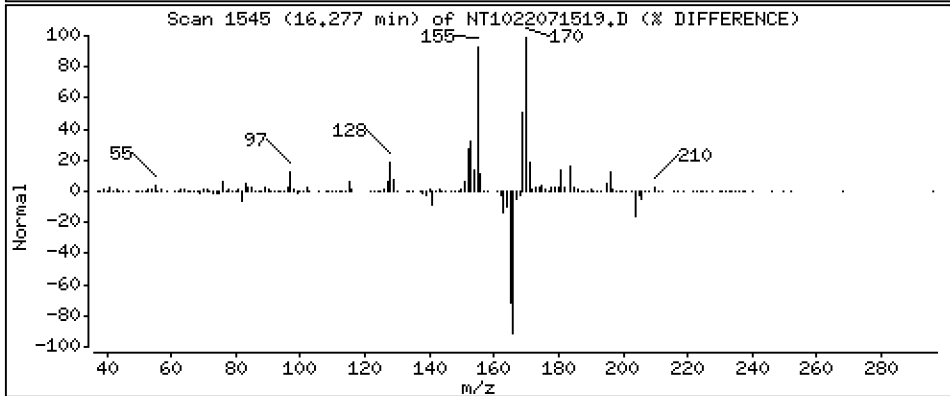
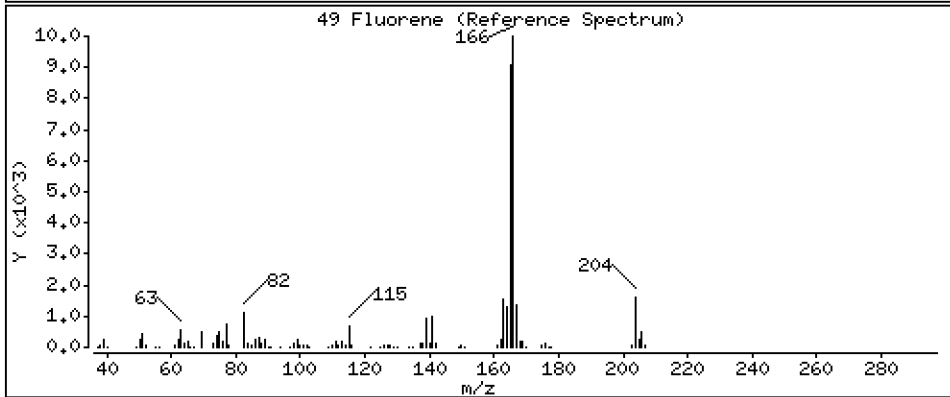
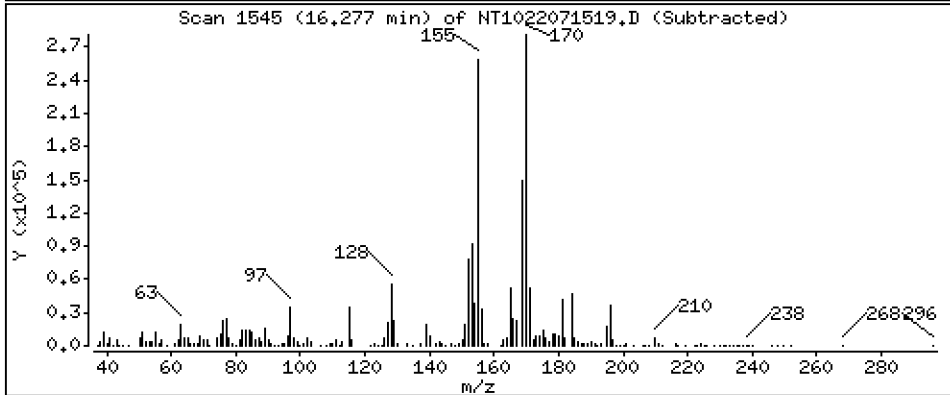
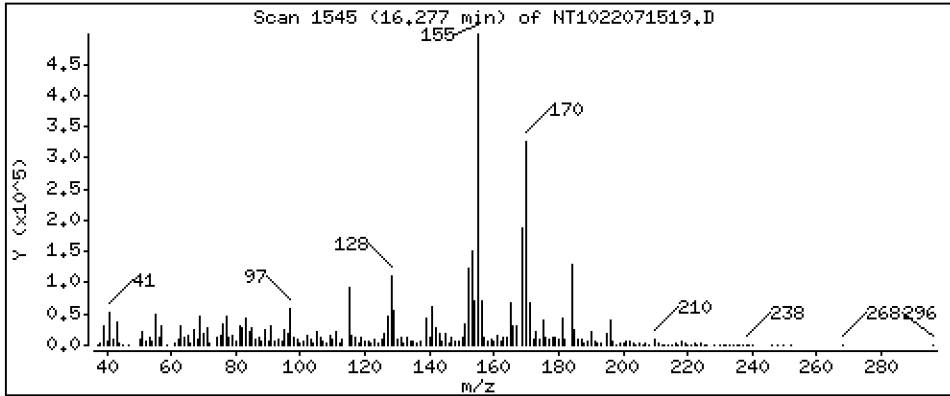
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 3,749 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15,5

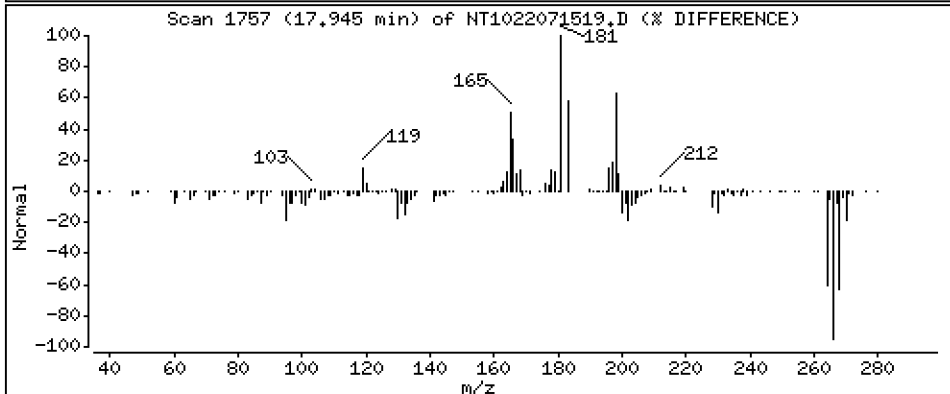
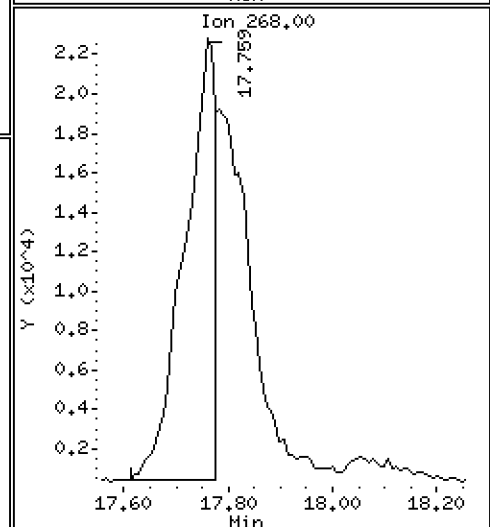
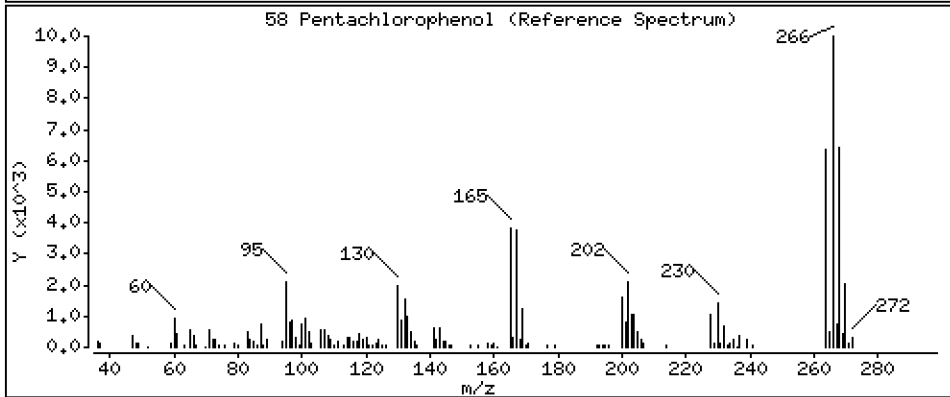
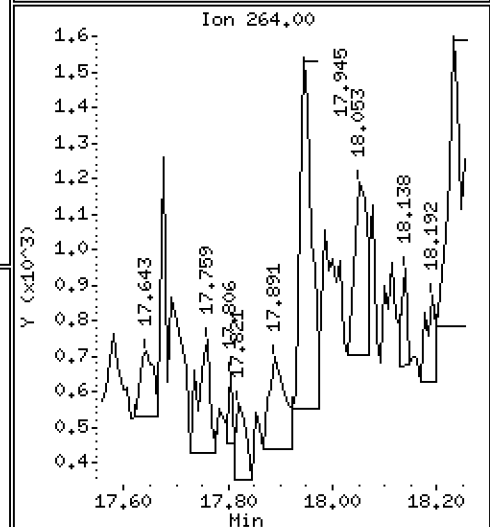
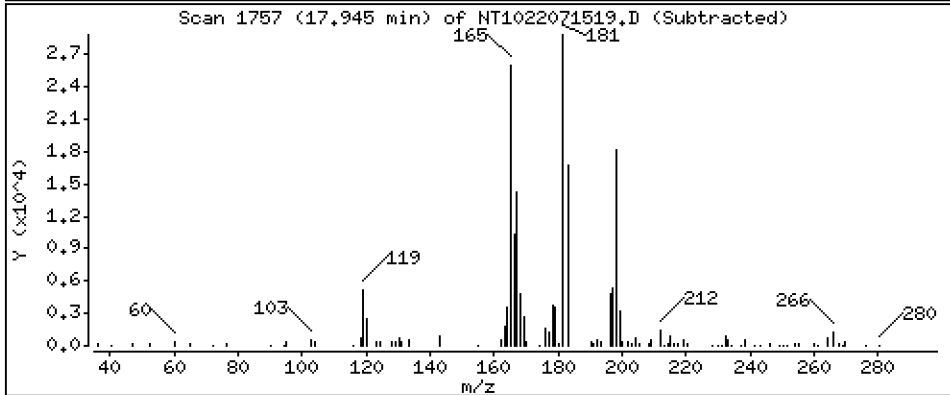
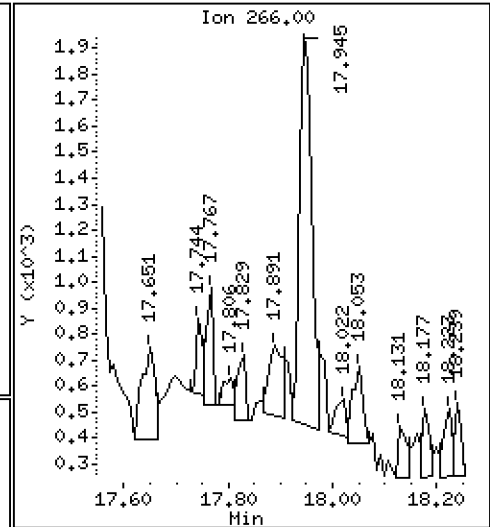
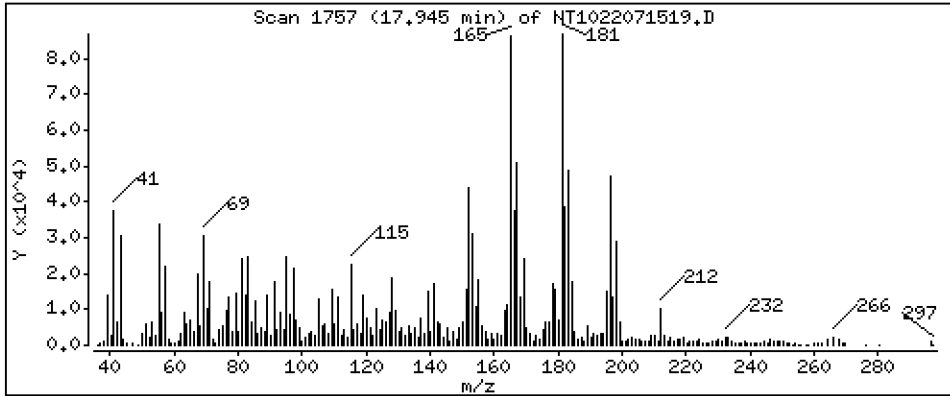
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 5,639 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

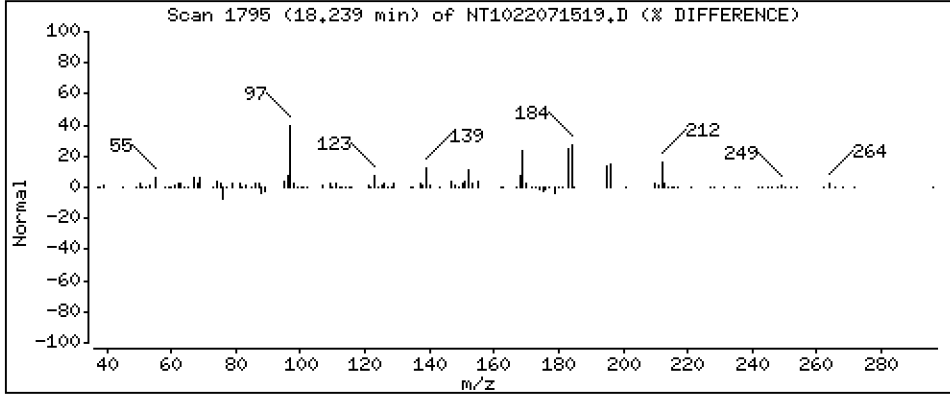
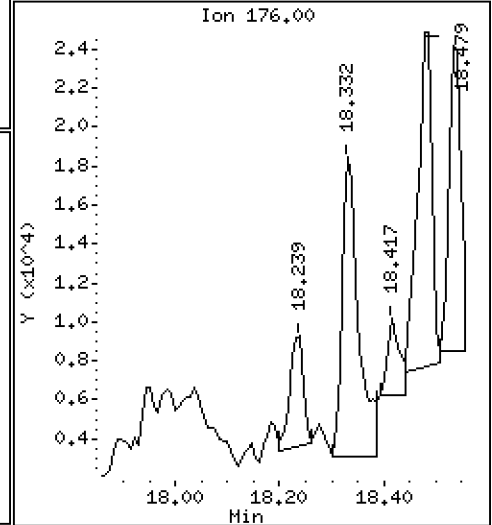
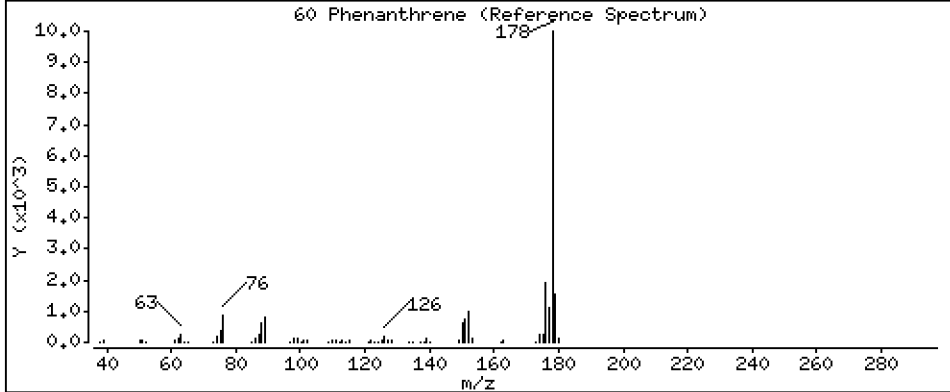
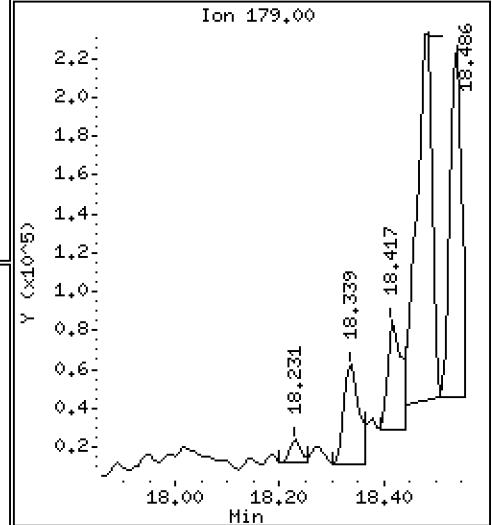
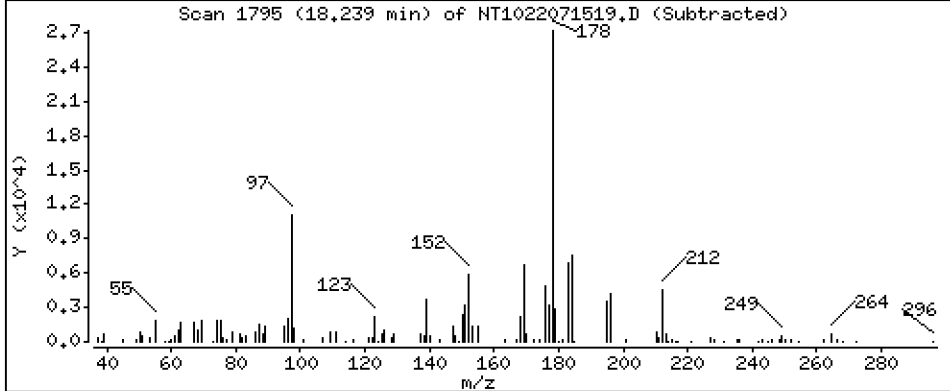
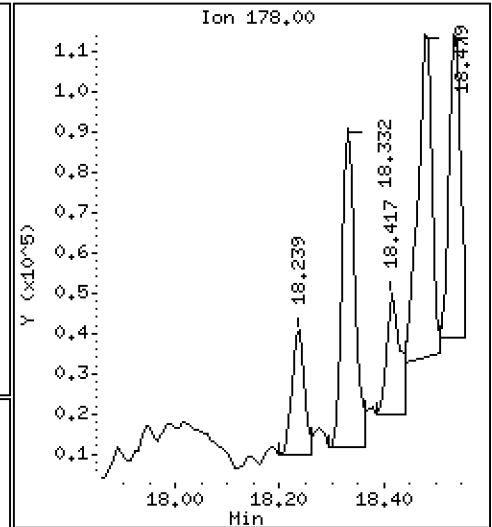
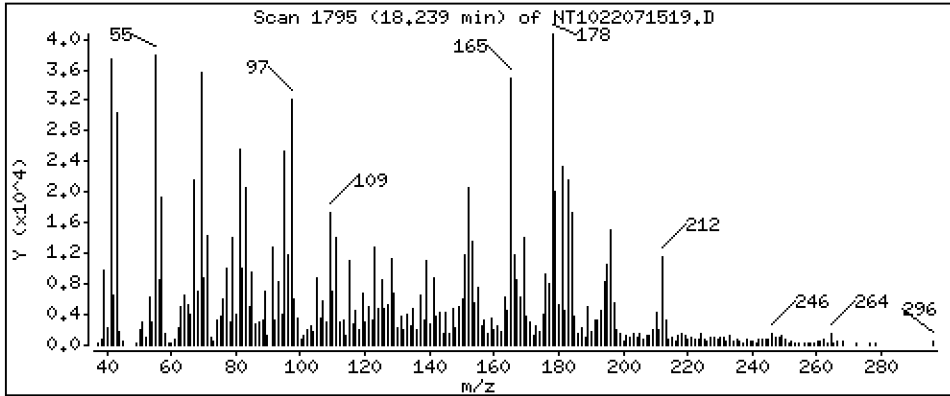
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 6,695 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15,5

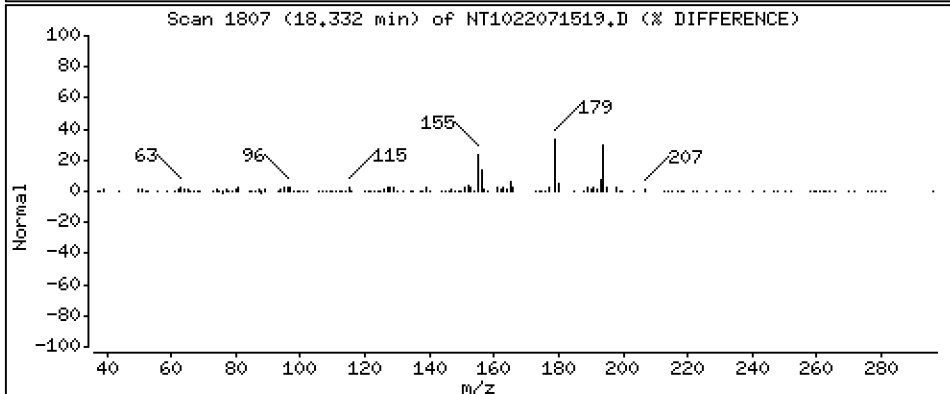
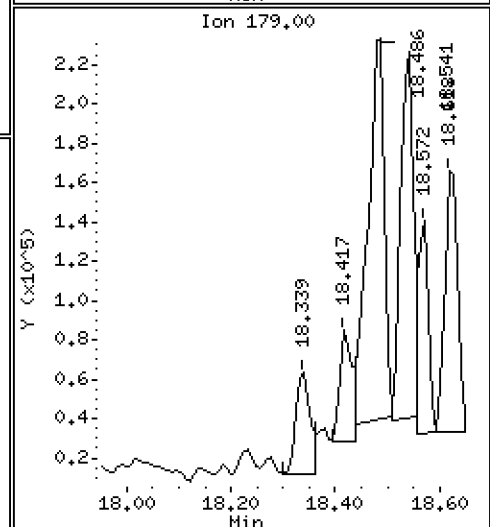
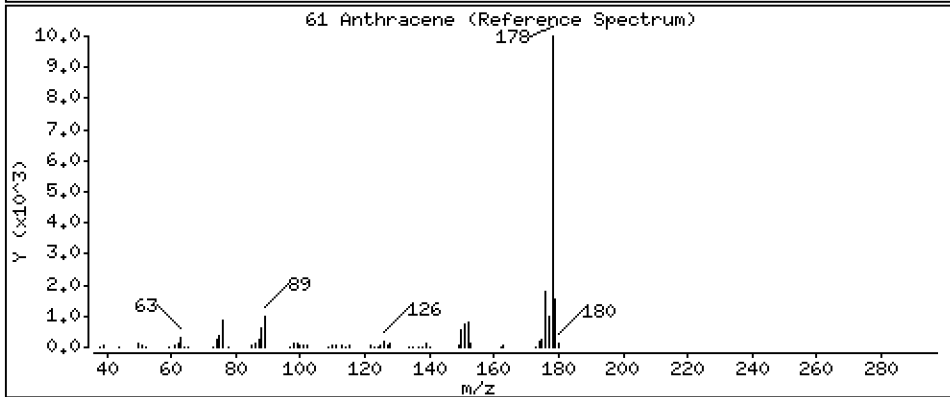
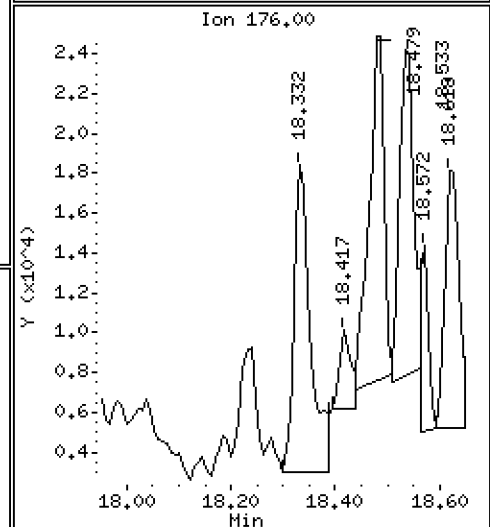
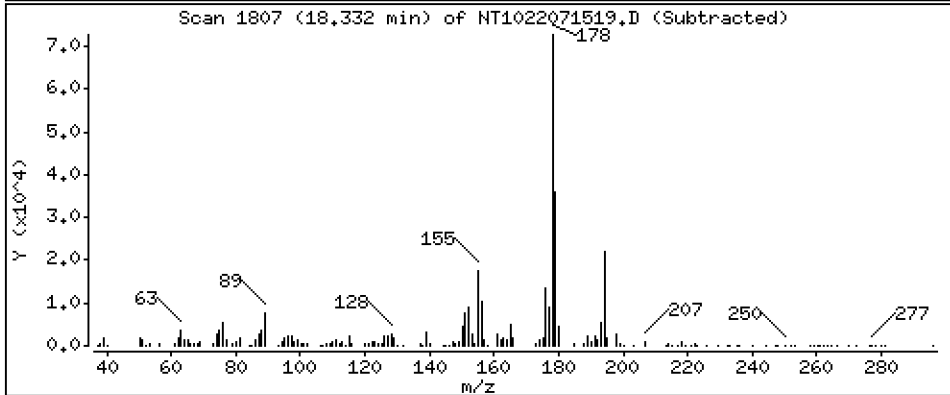
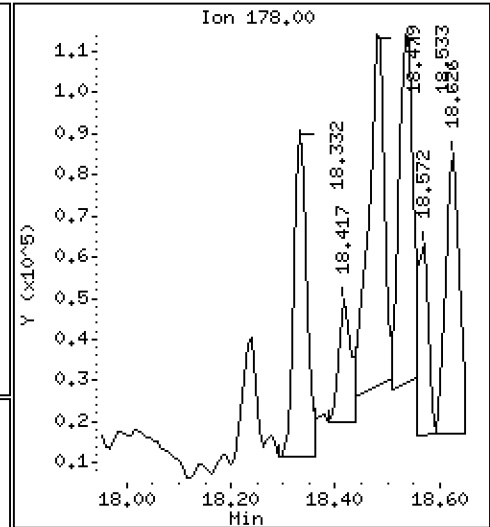
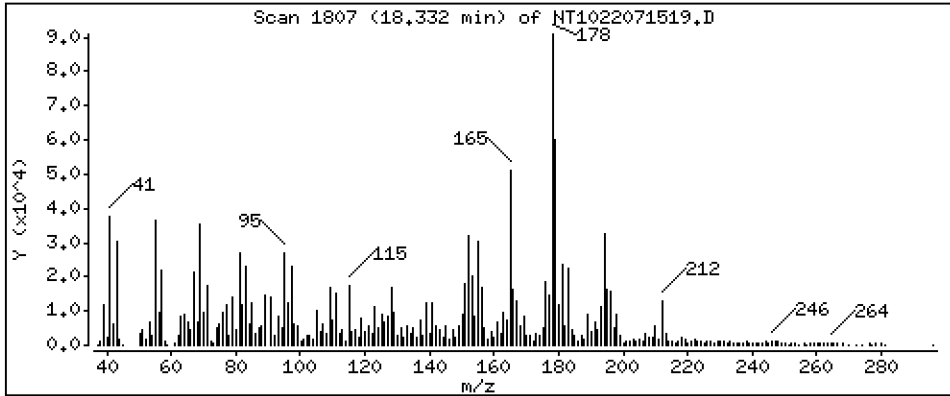
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 16,18 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

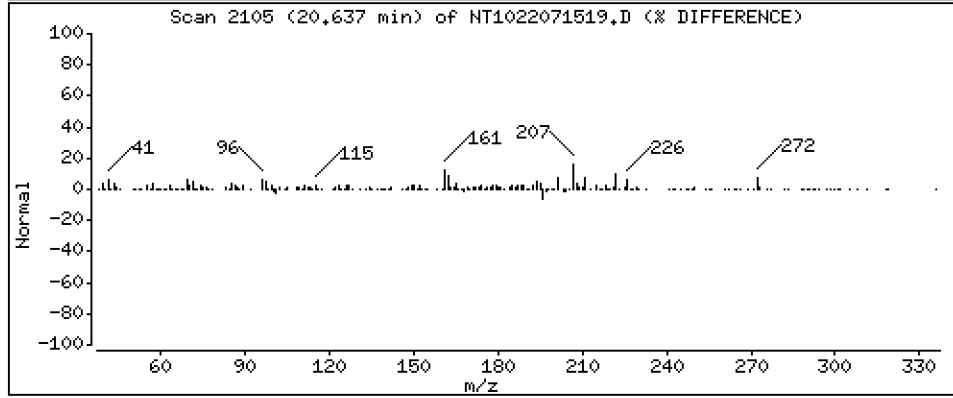
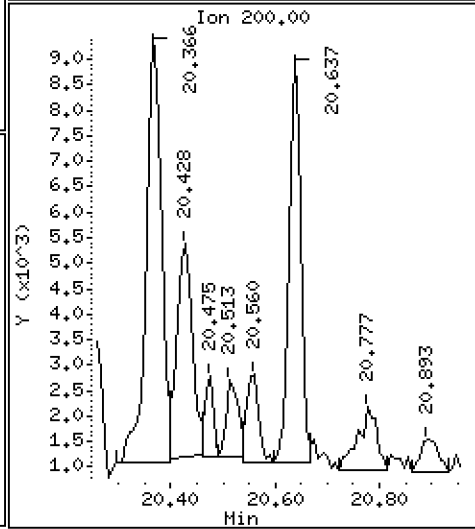
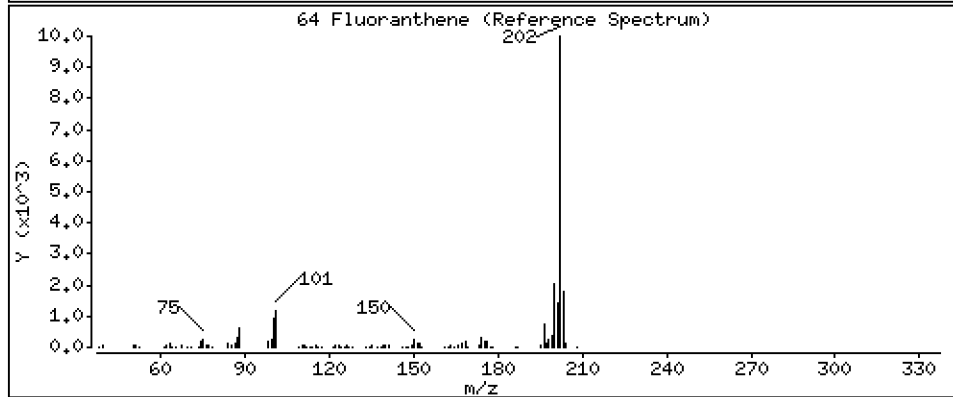
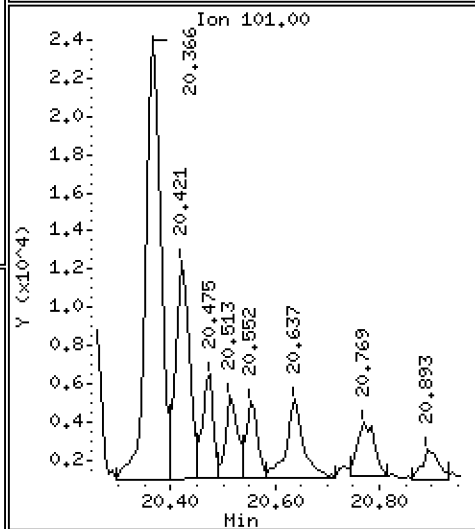
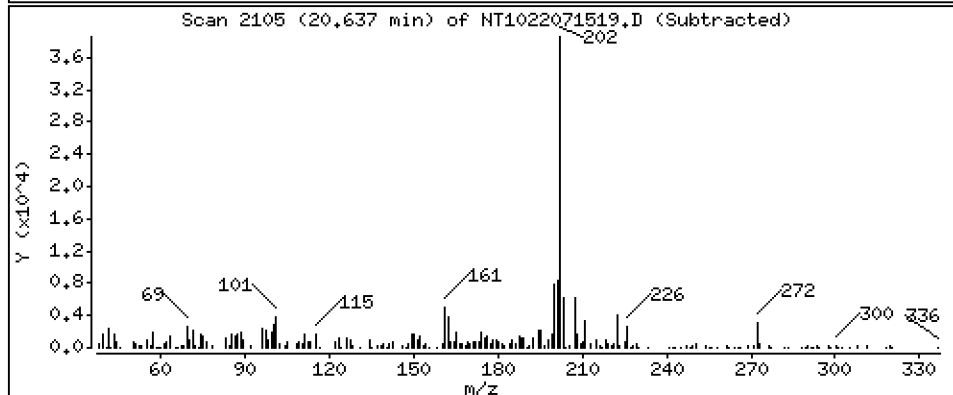
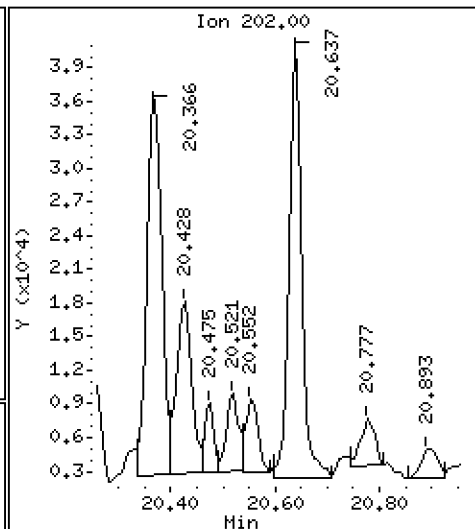
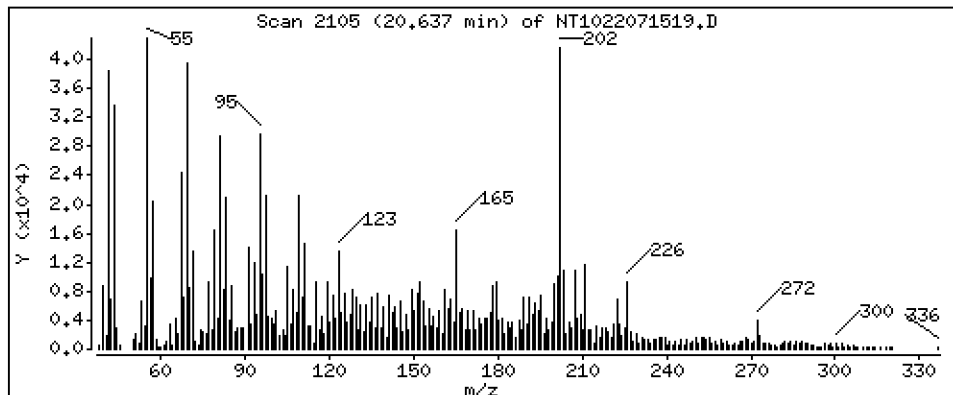
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,675 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

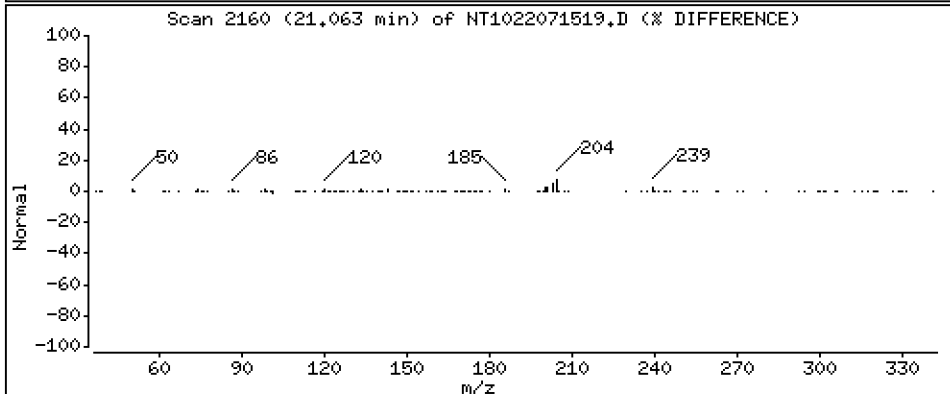
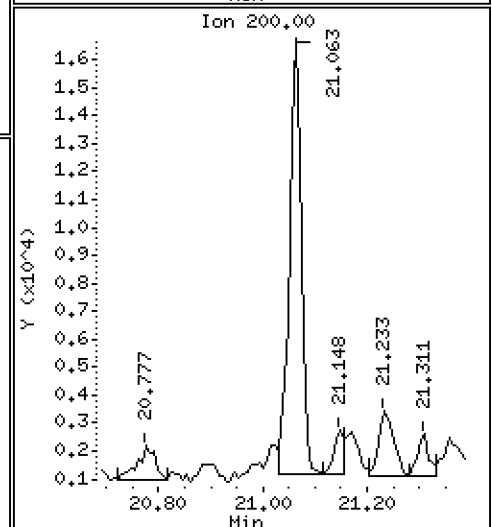
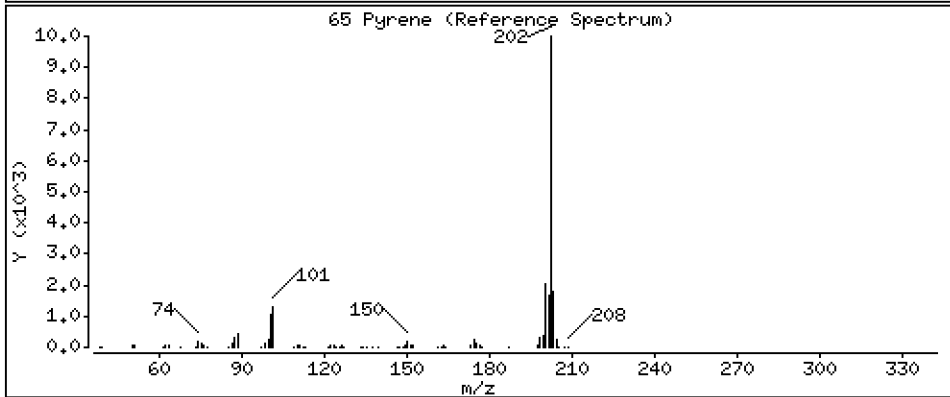
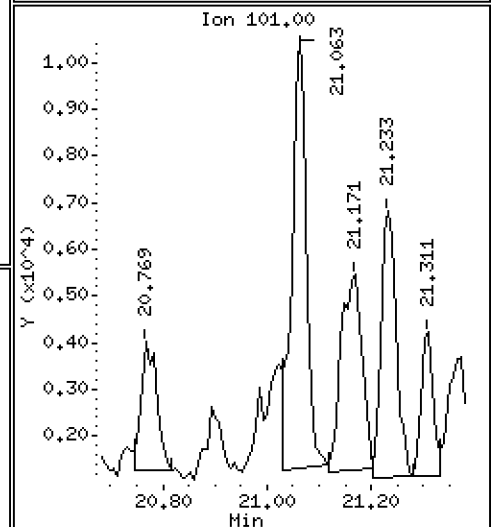
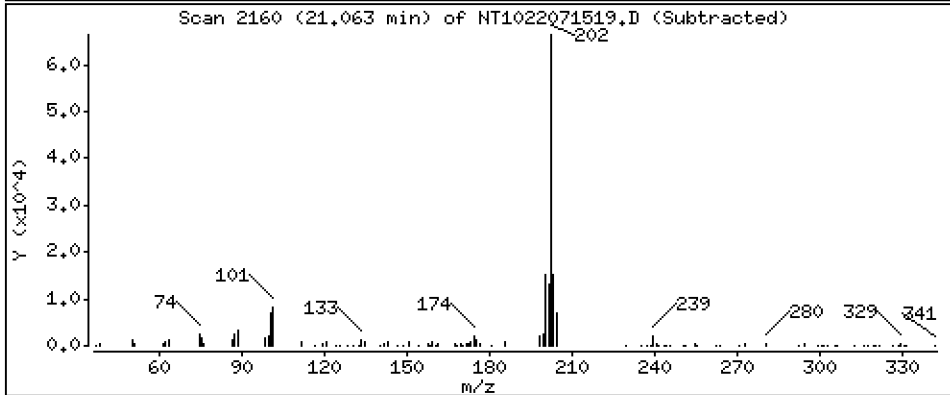
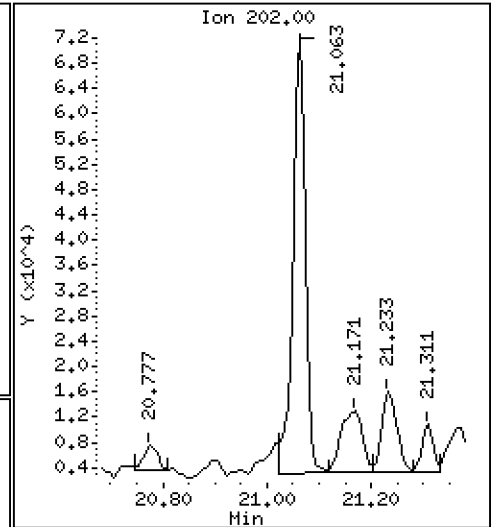
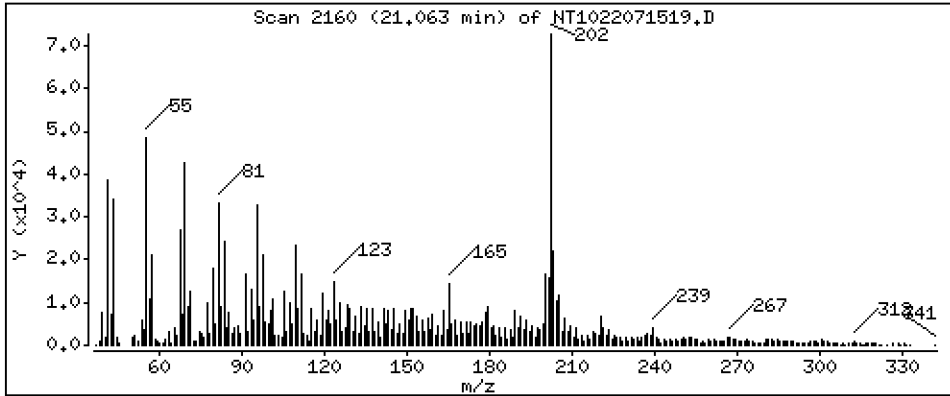
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 11,09 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

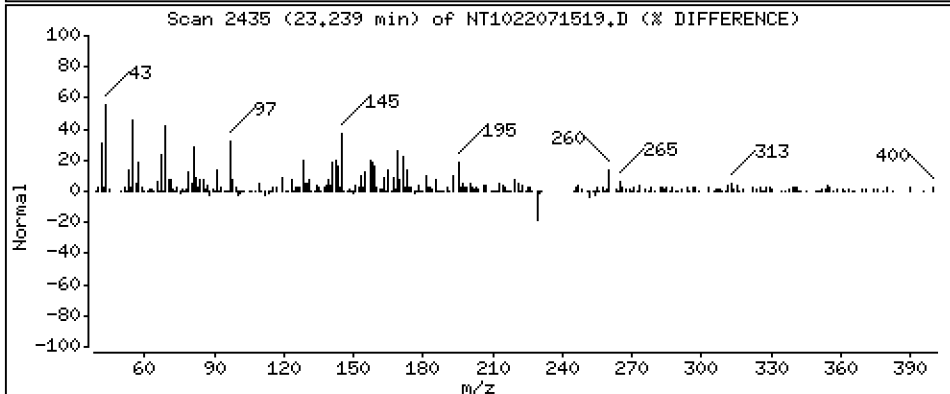
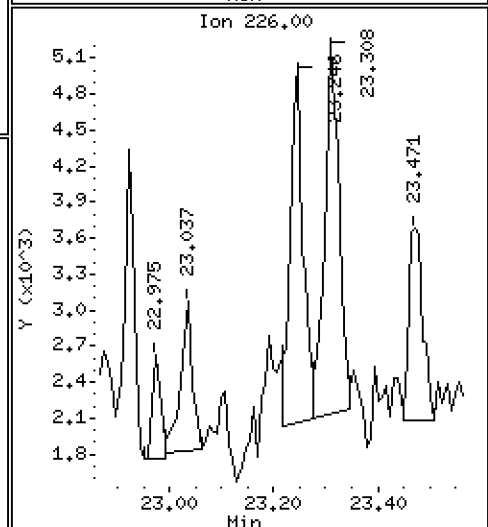
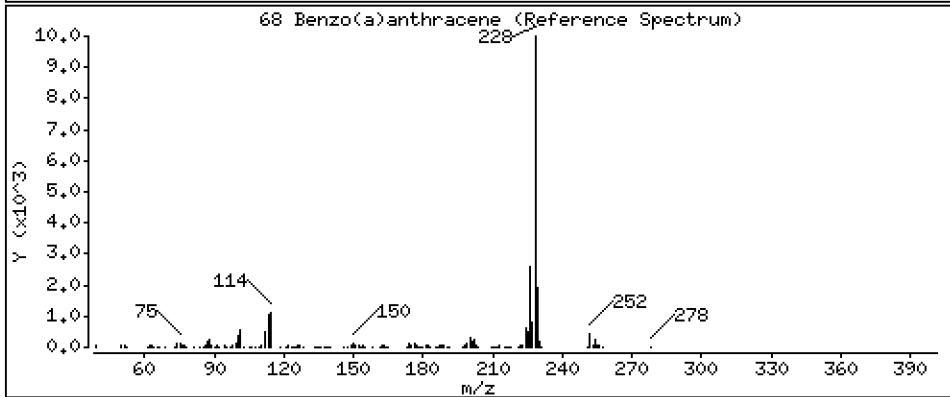
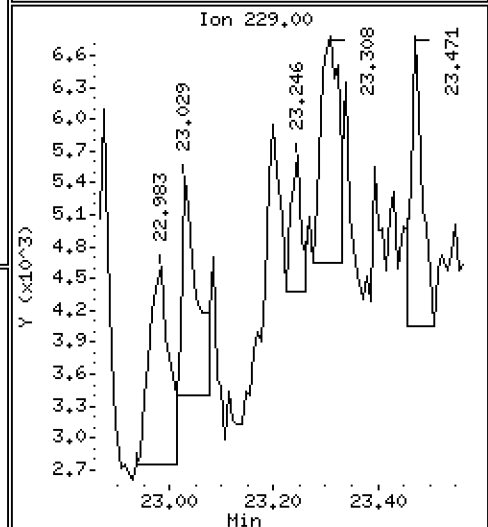
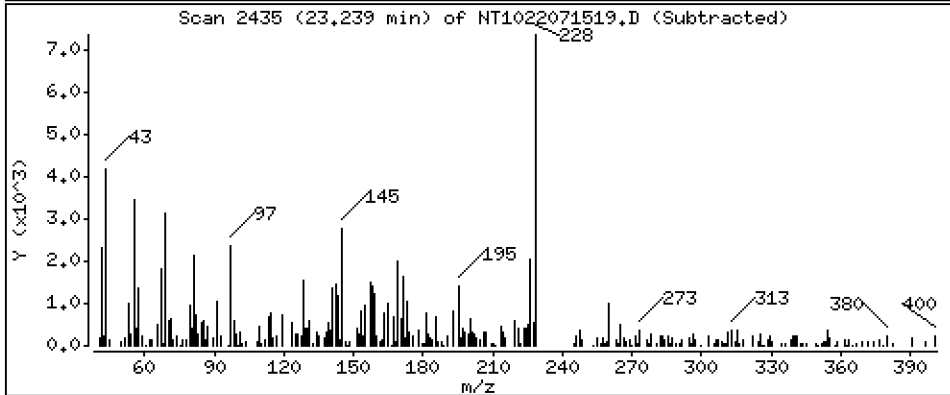
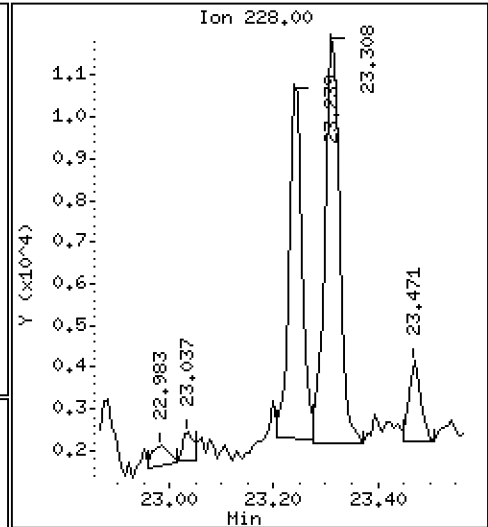
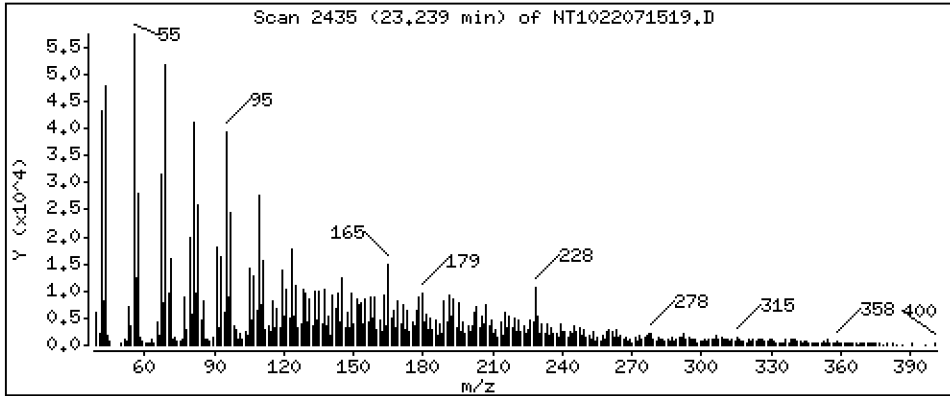
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 1,799 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

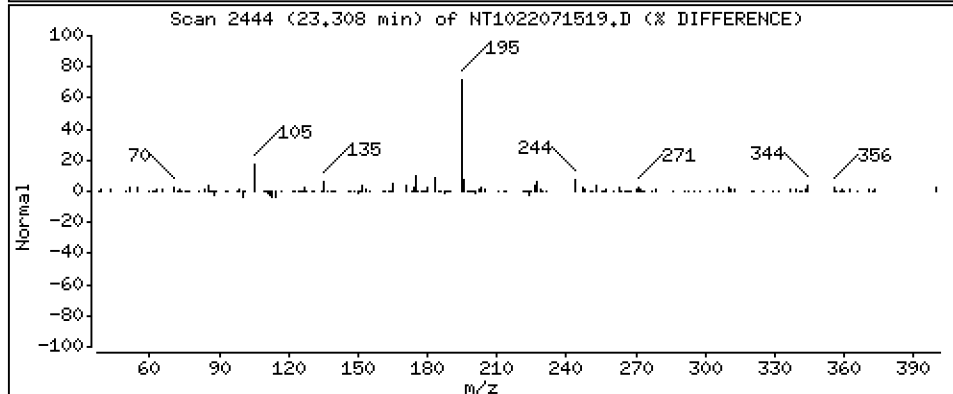
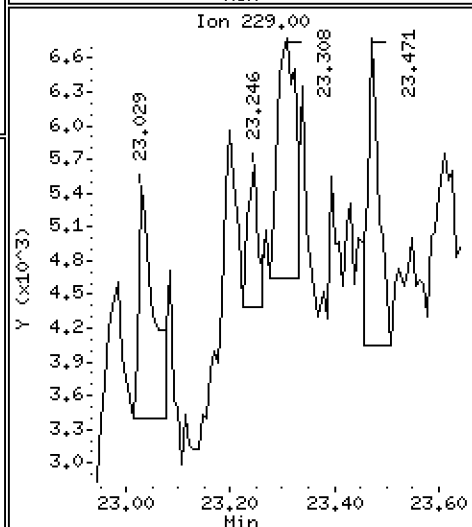
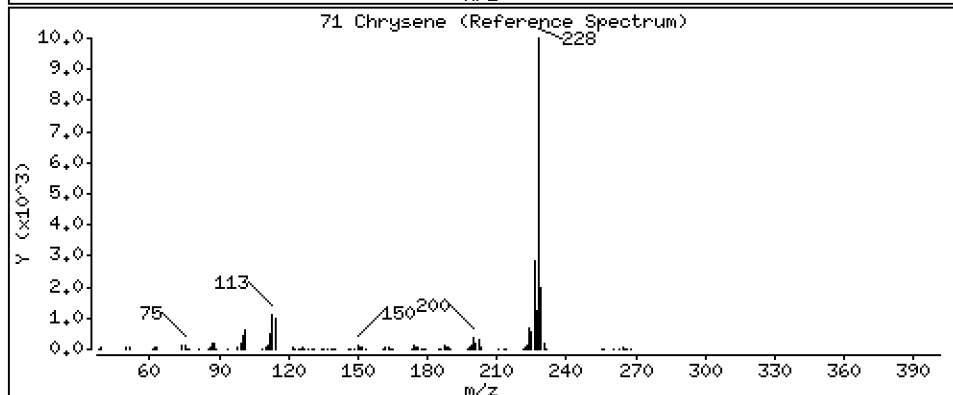
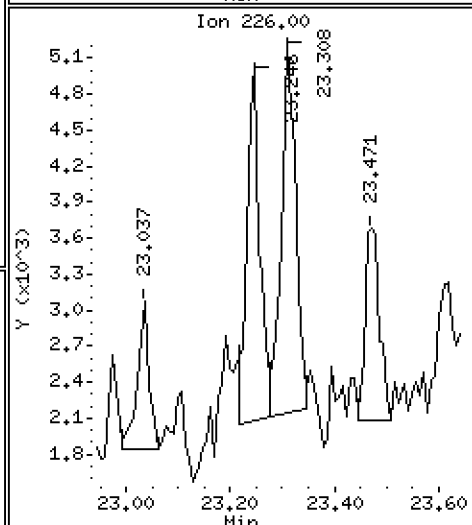
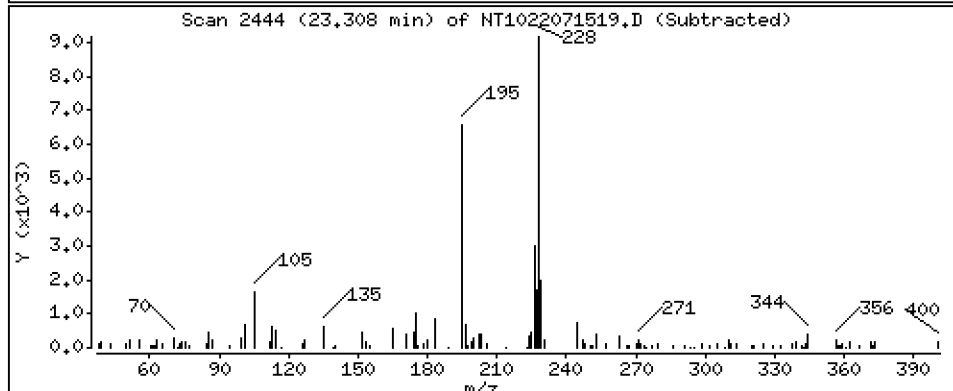
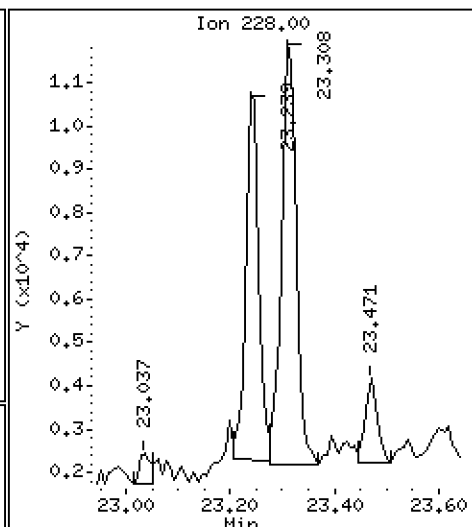
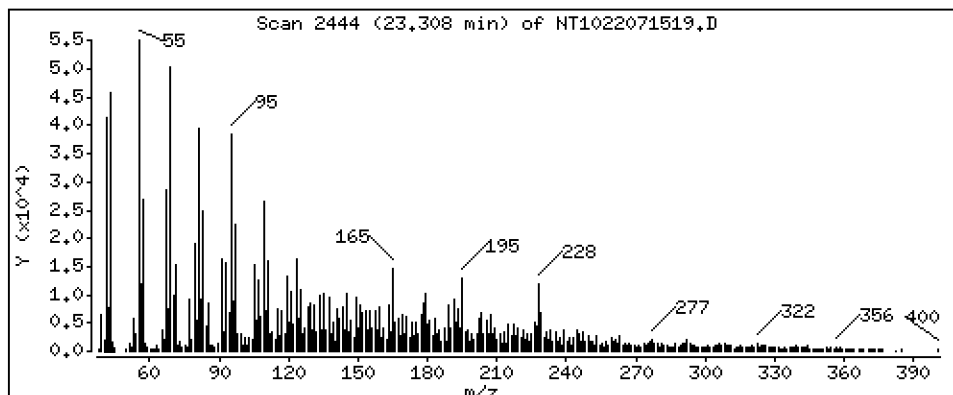
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 3,474 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

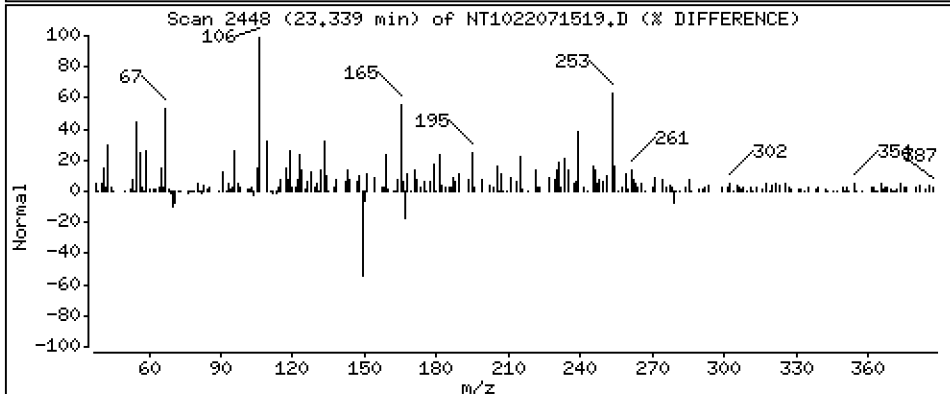
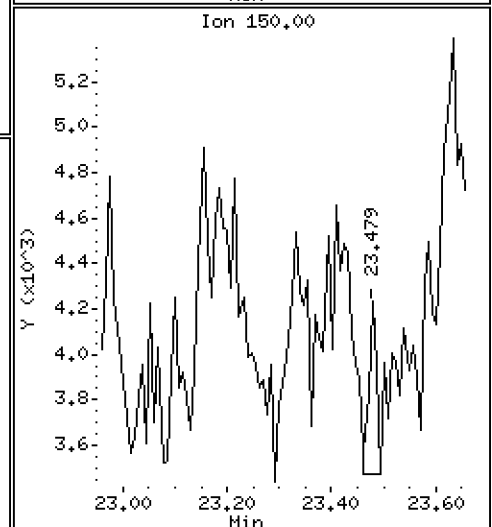
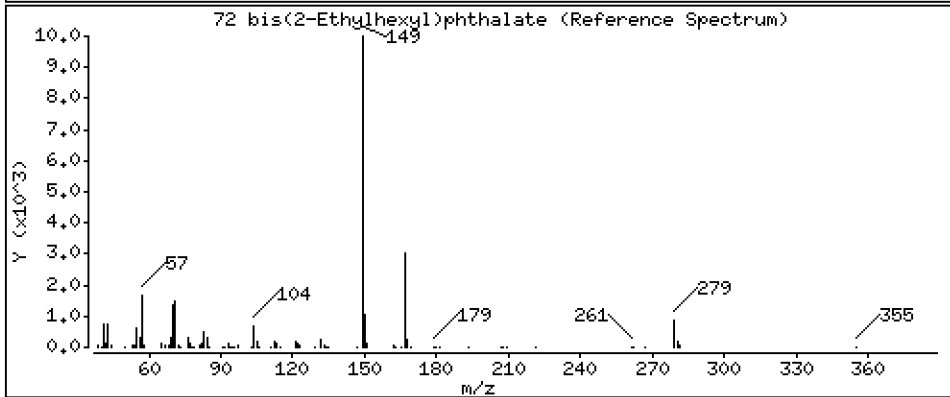
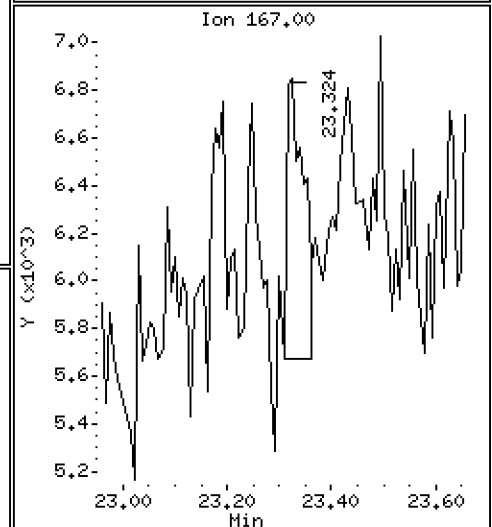
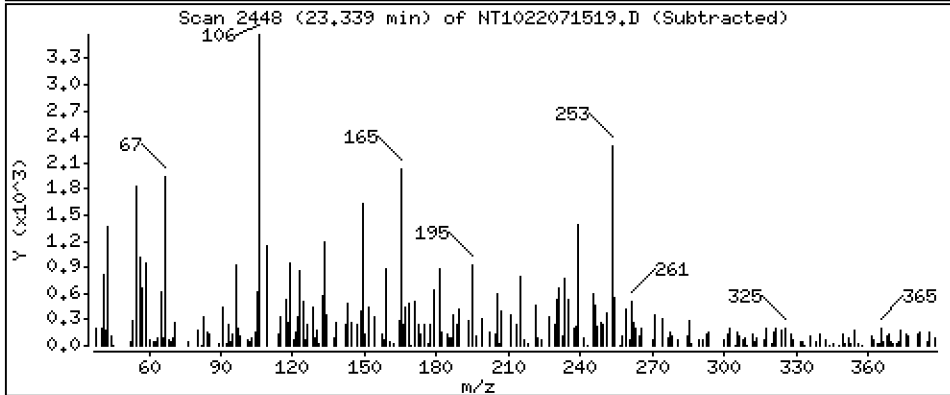
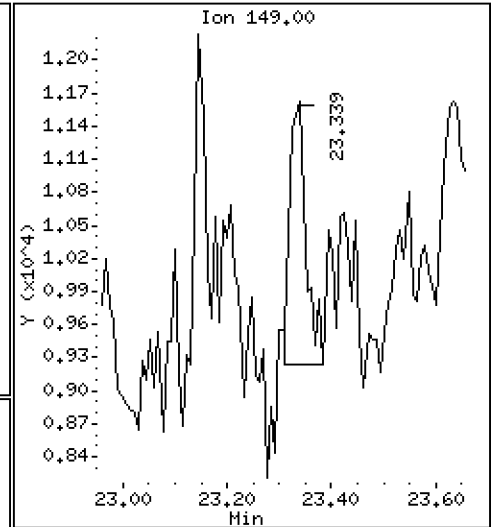
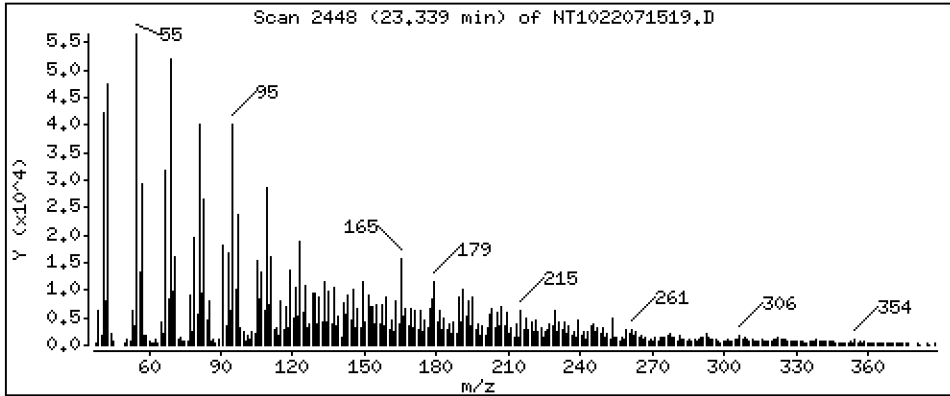
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 1,140 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

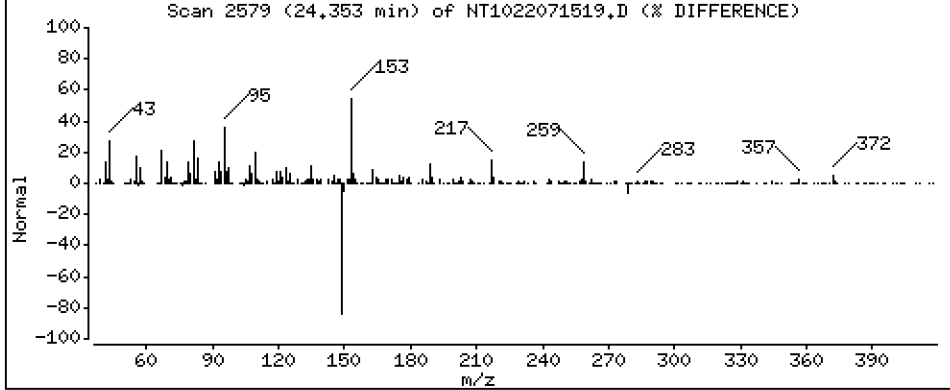
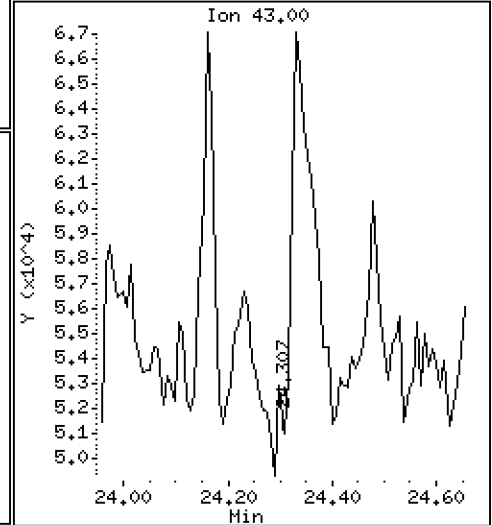
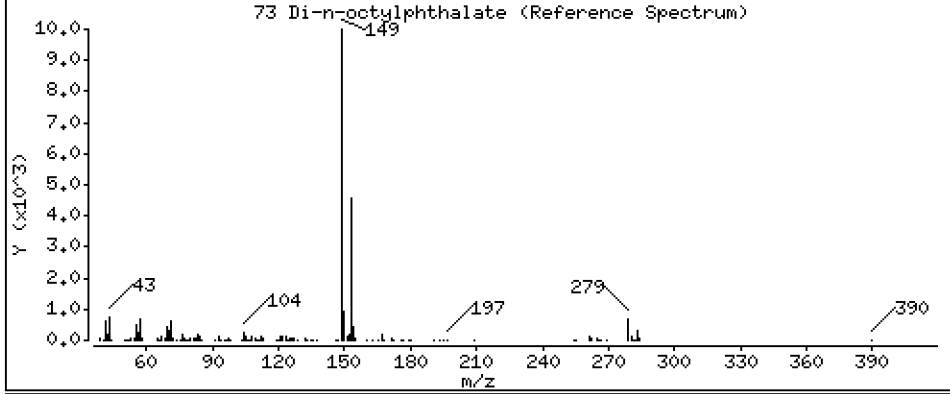
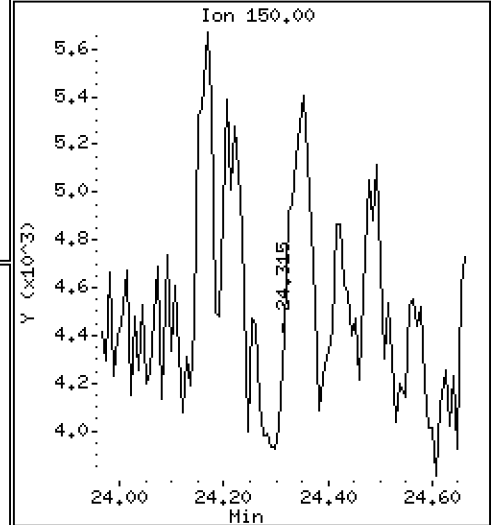
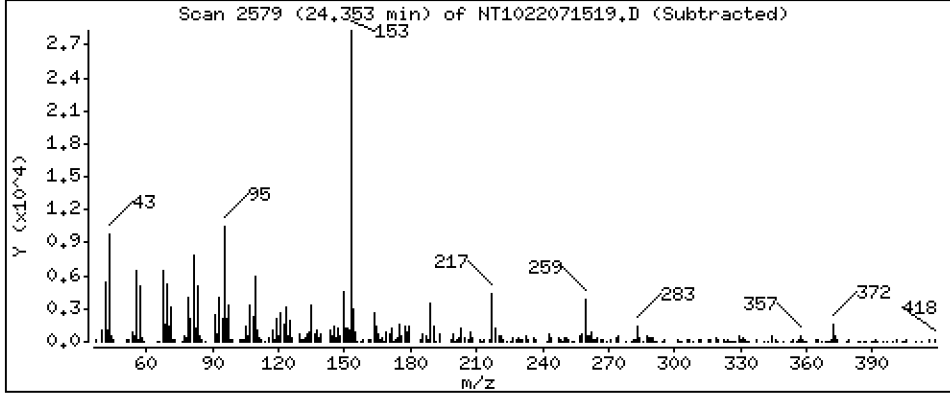
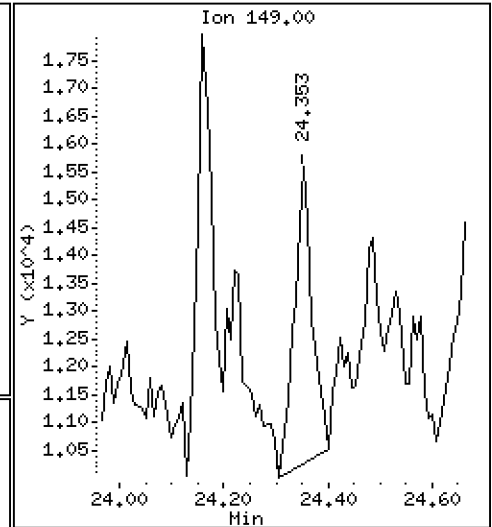
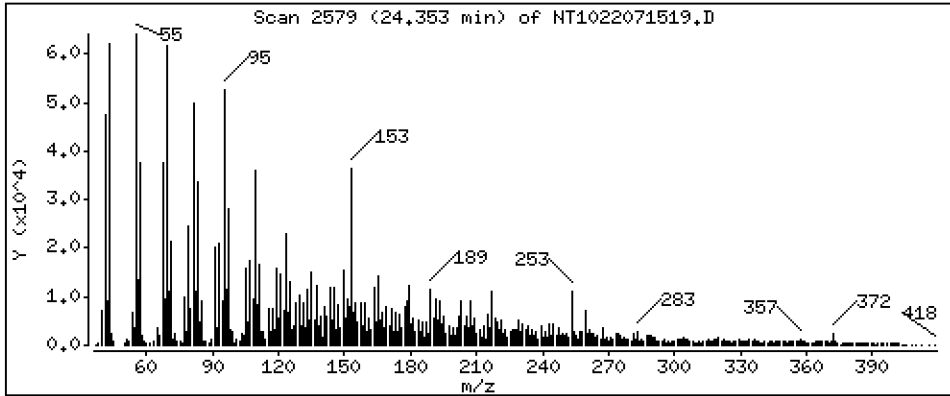
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 1,292 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

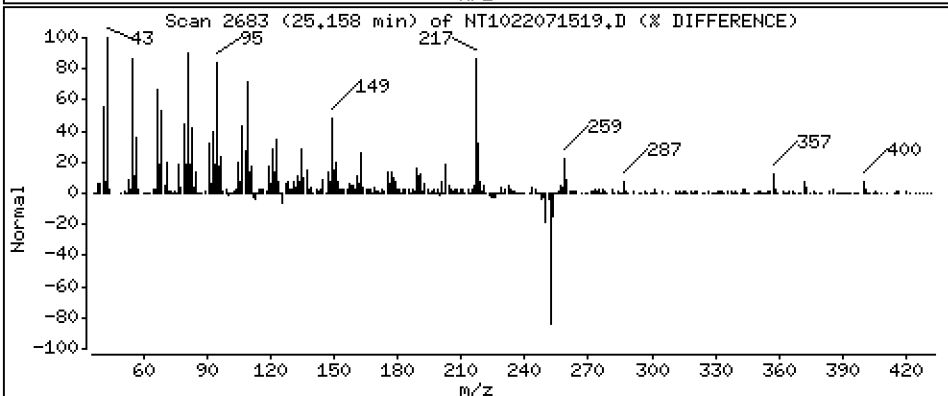
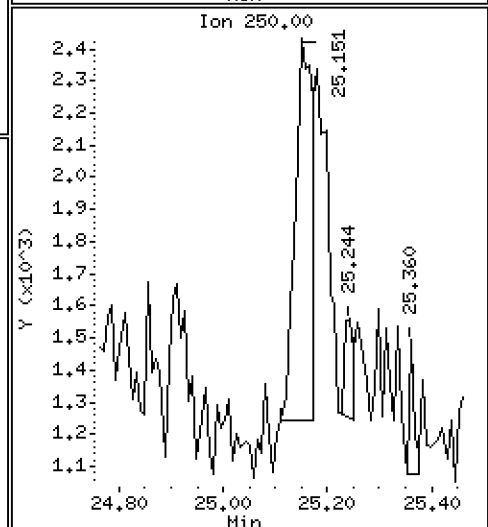
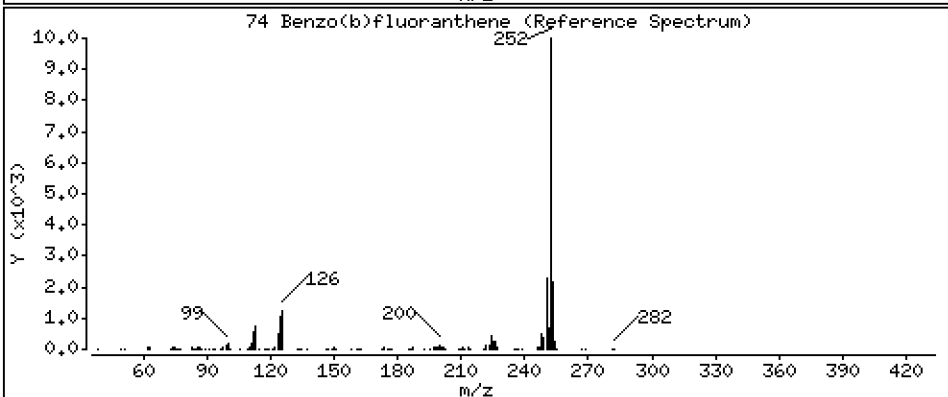
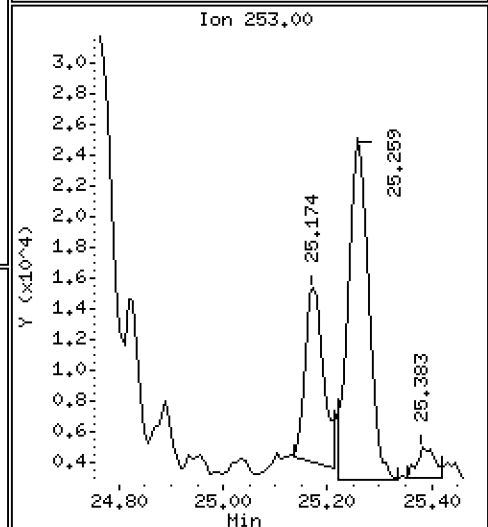
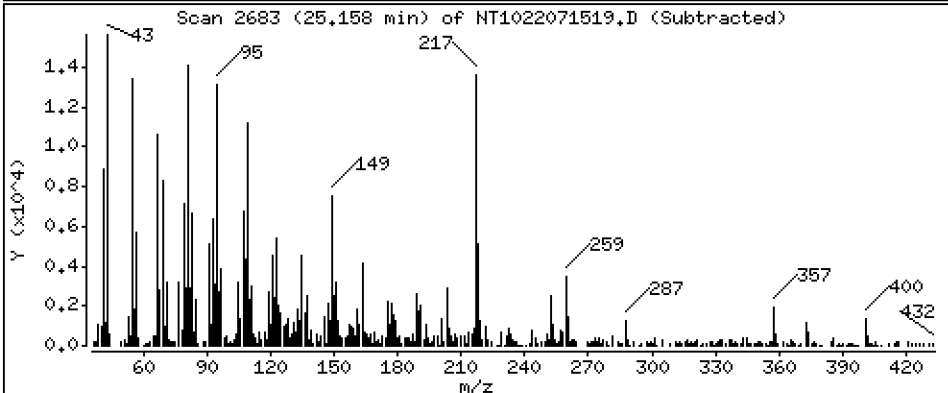
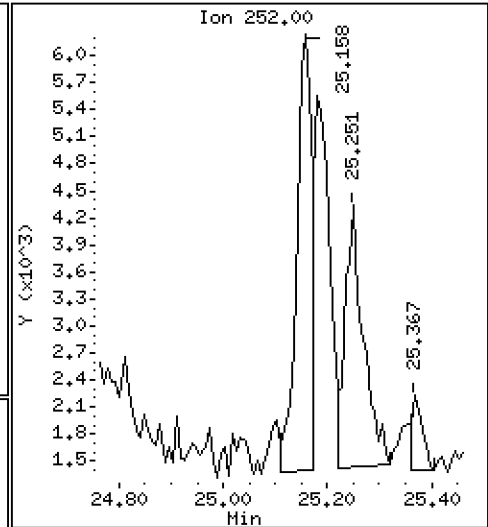
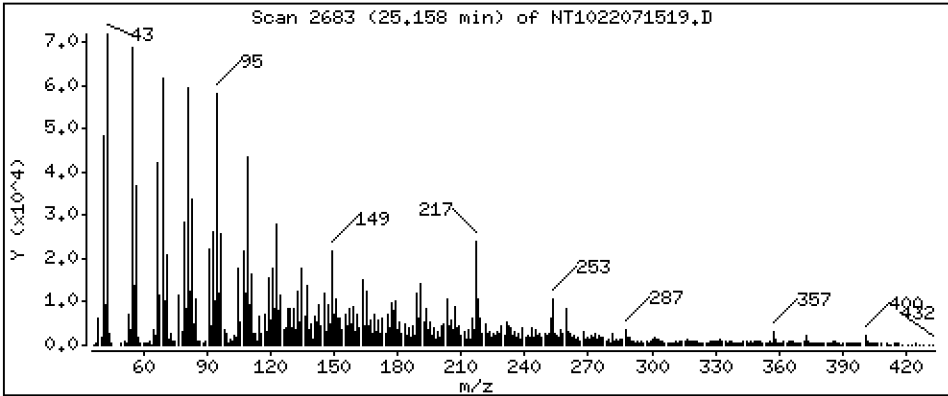
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 1,129 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

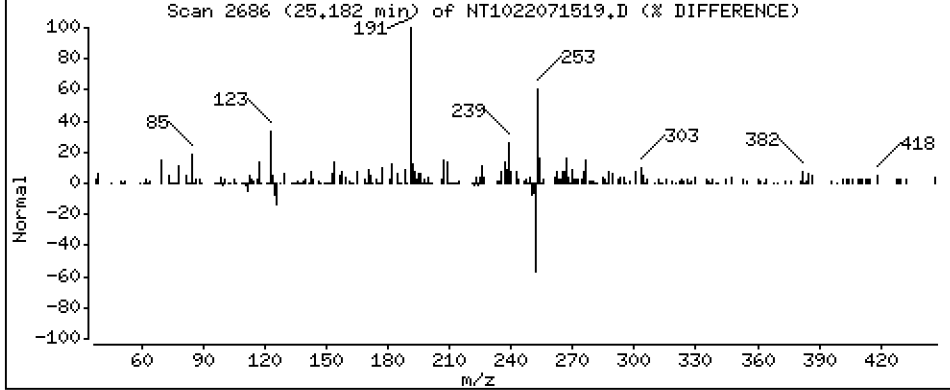
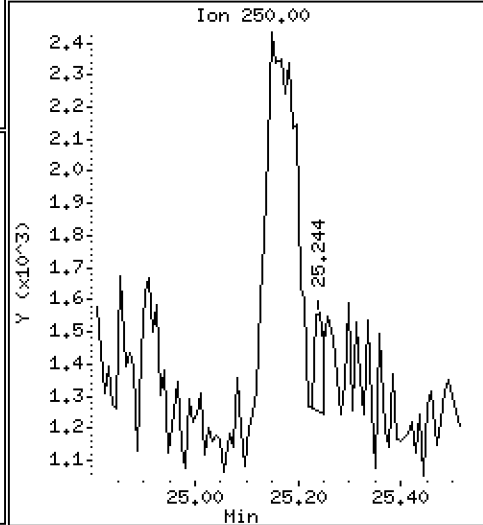
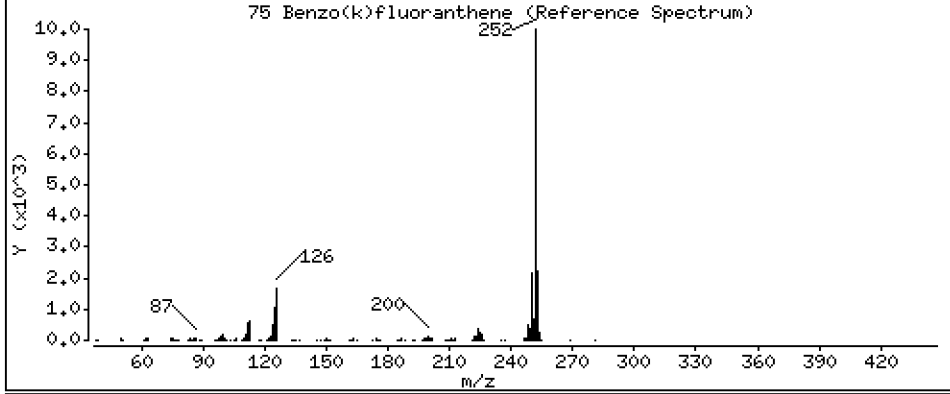
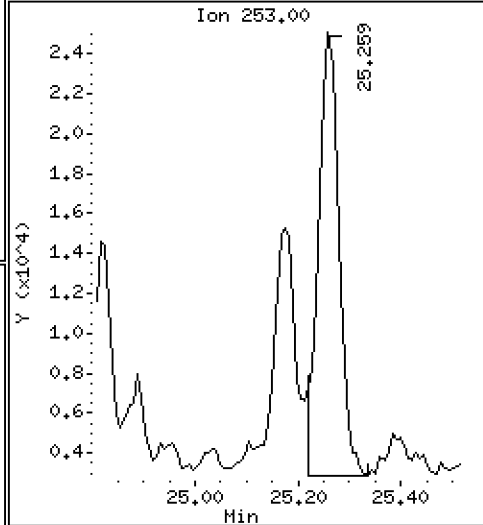
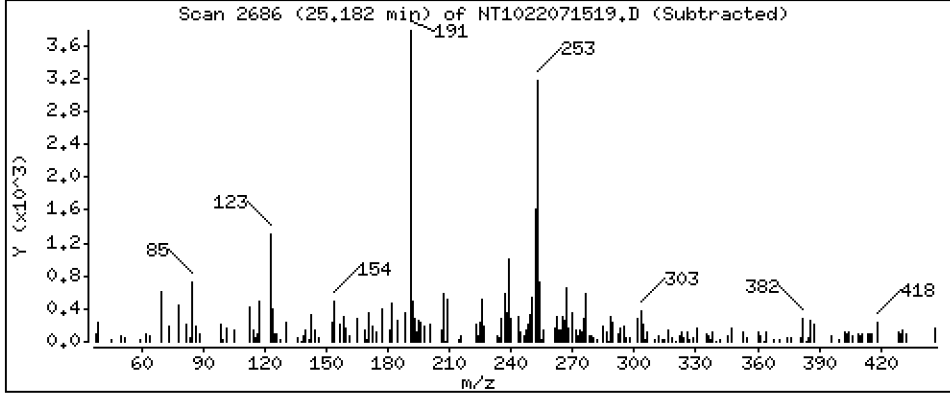
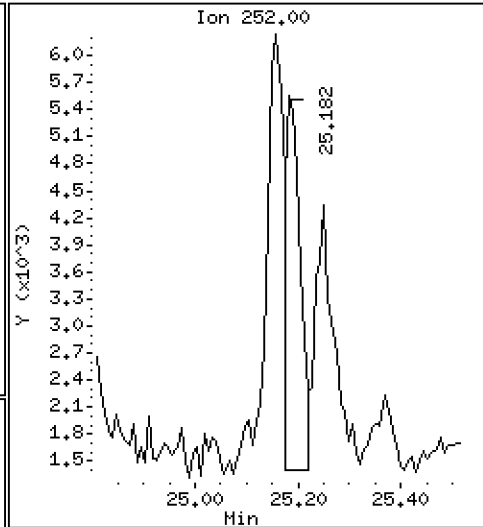
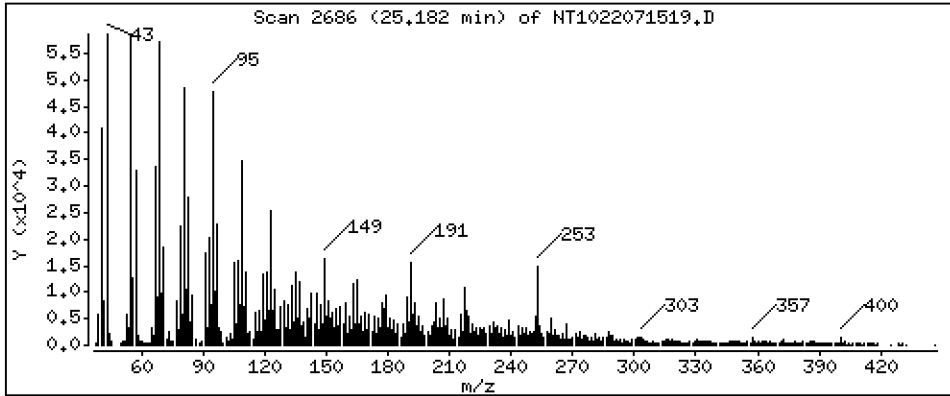
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 1,004 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

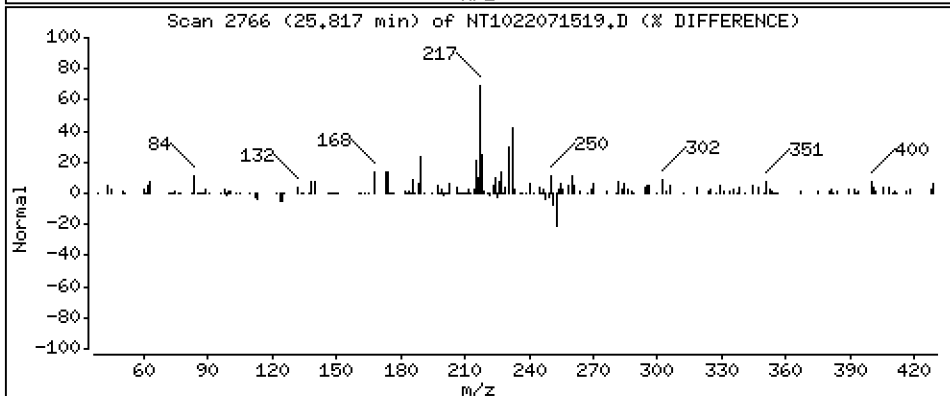
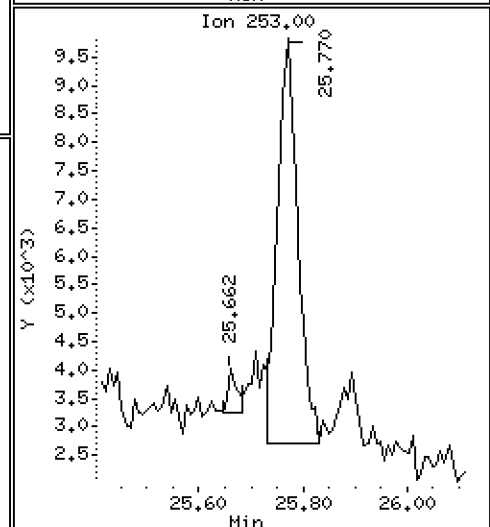
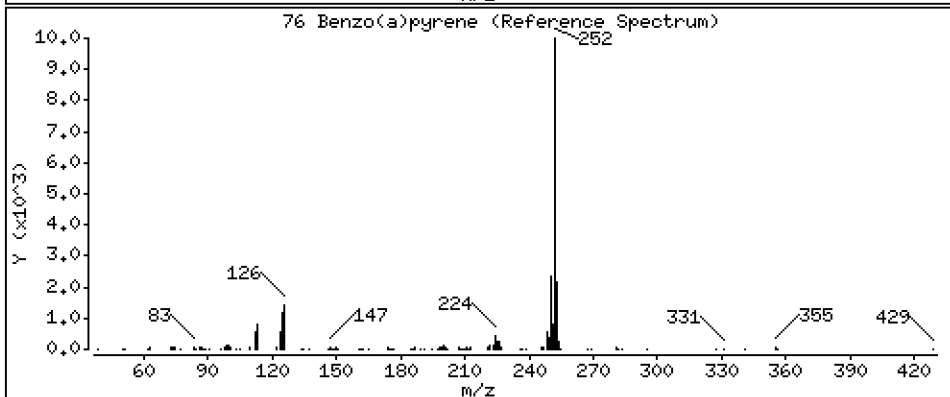
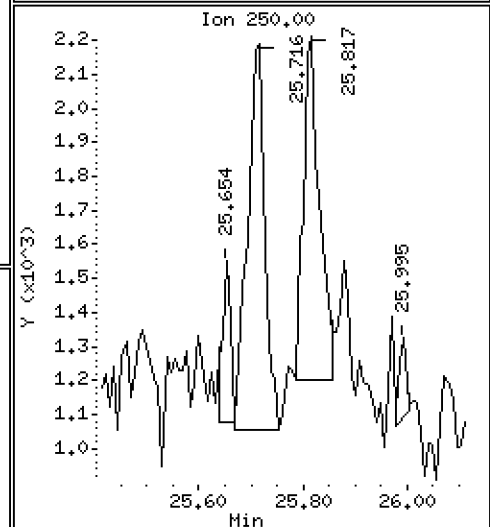
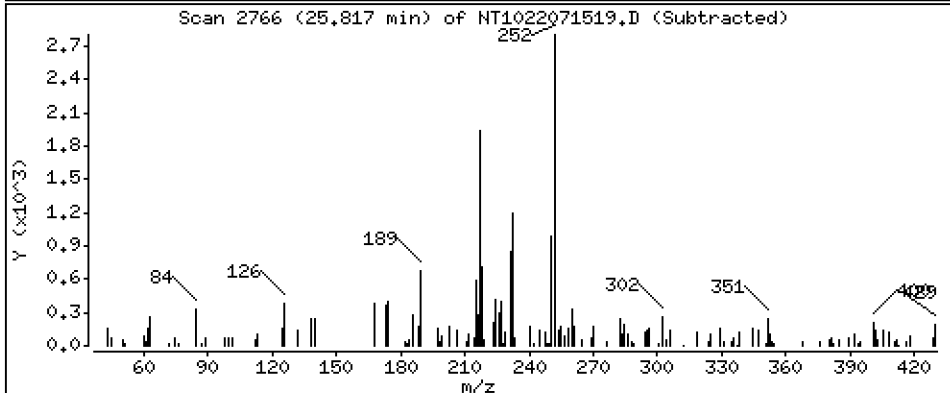
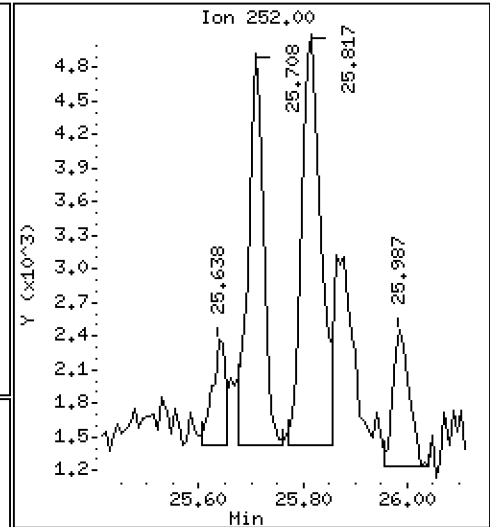
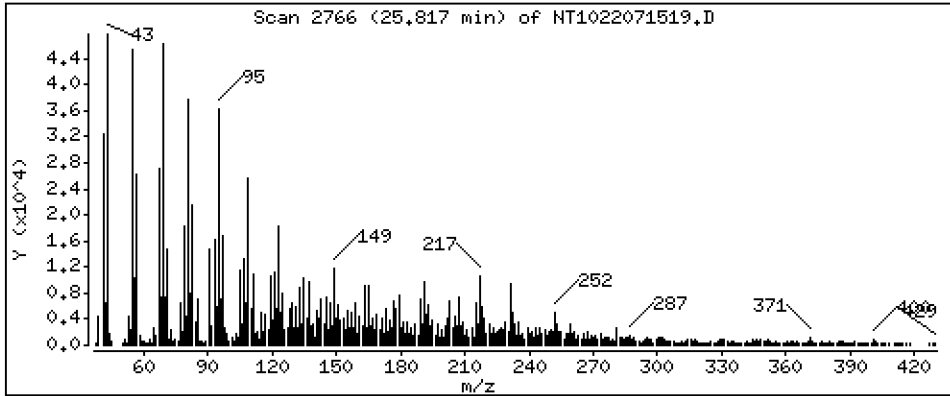
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 1,281 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

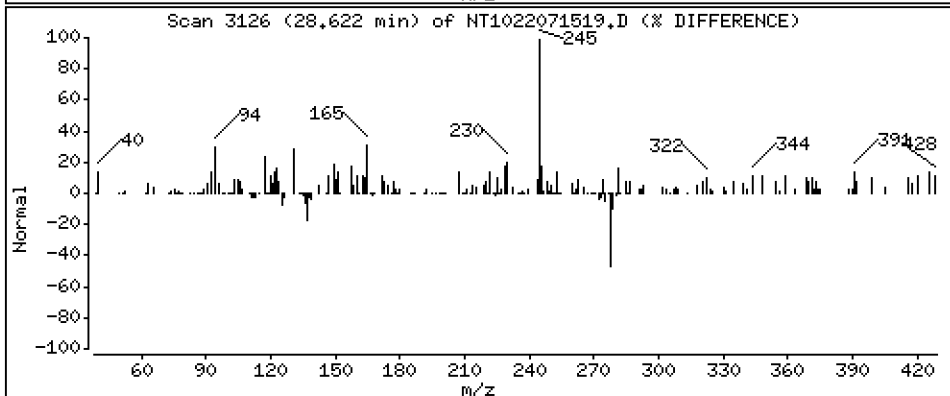
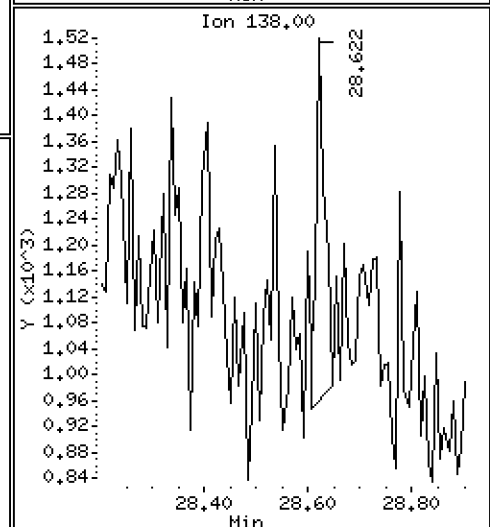
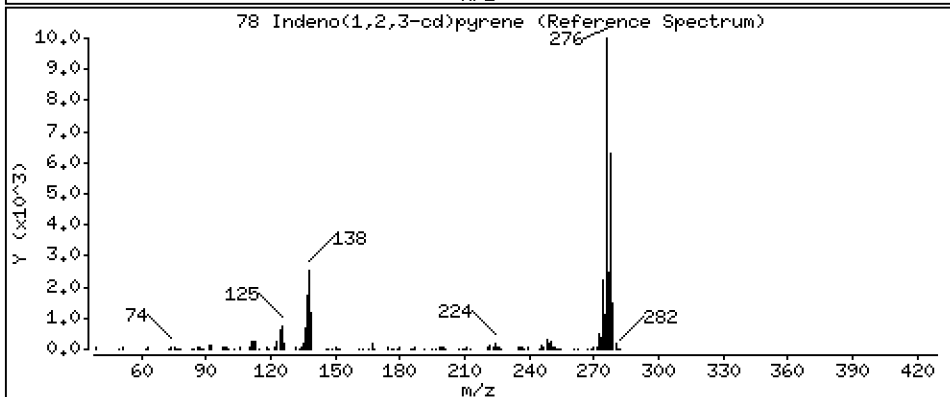
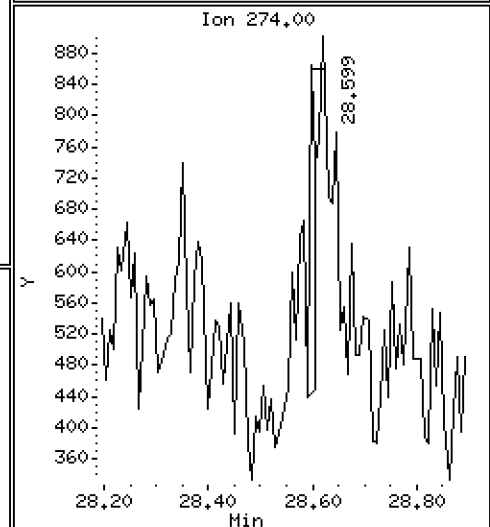
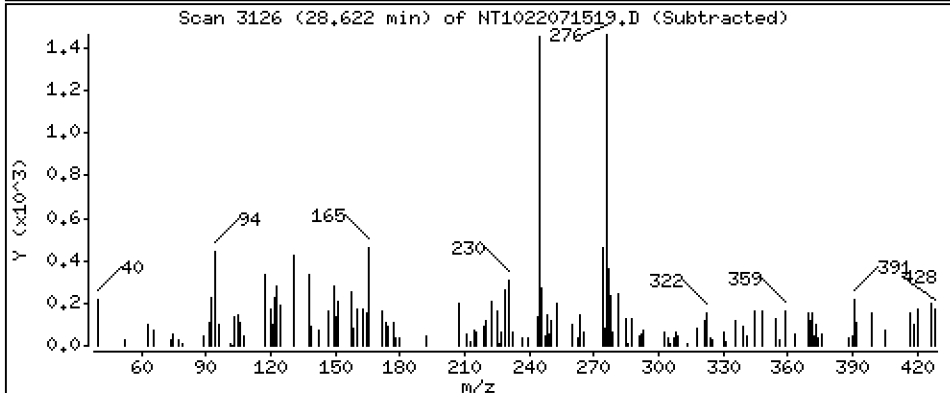
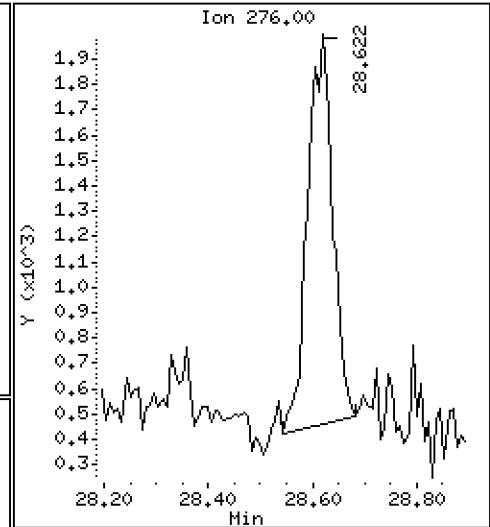
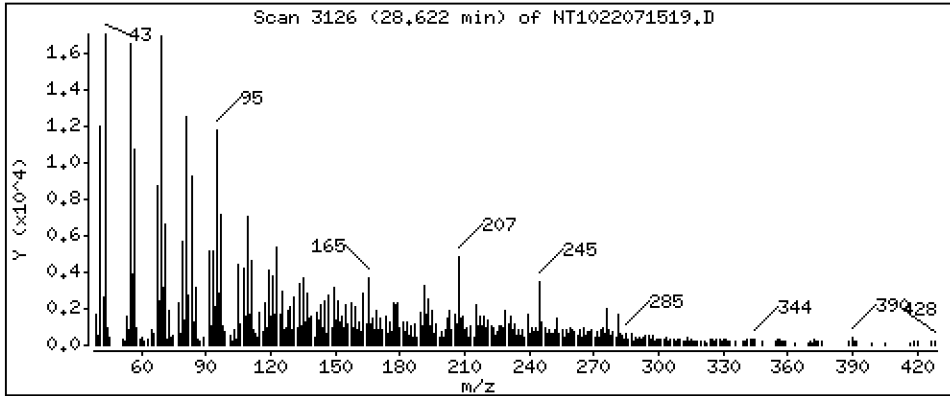
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,6295 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

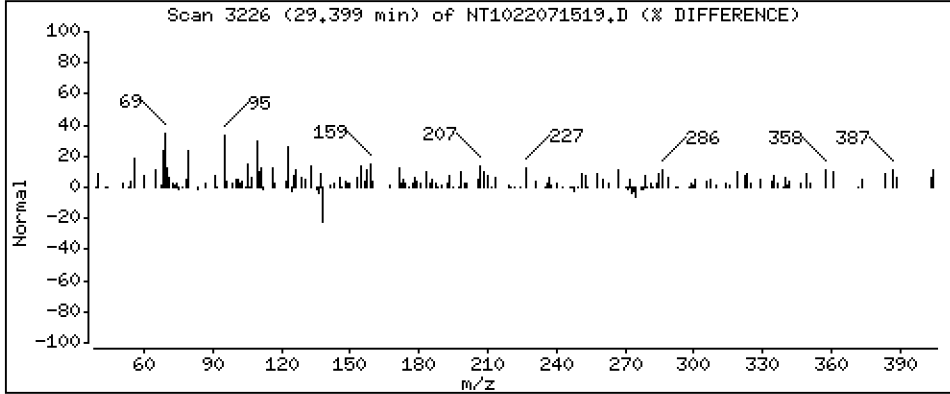
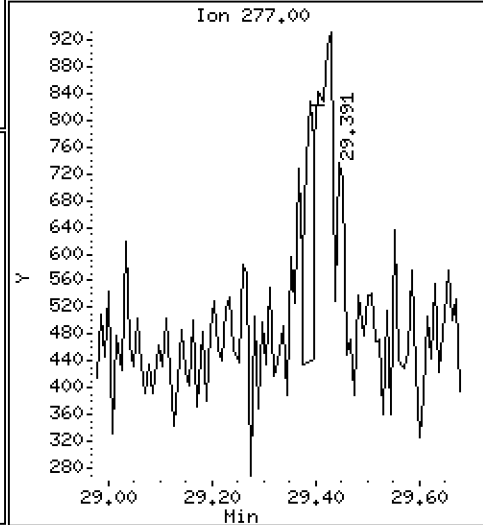
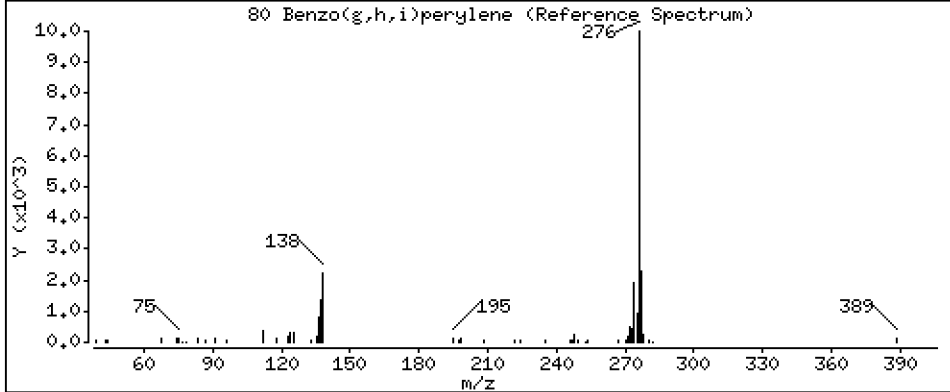
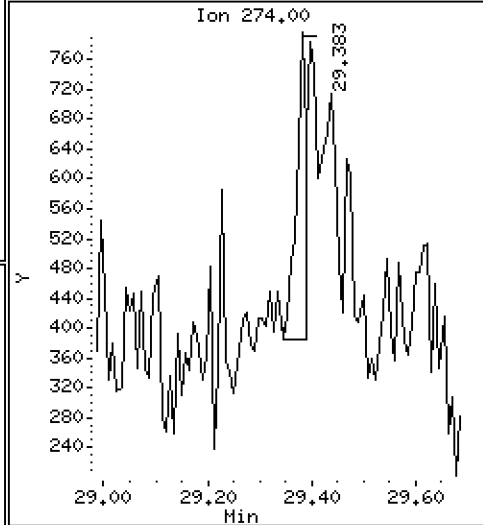
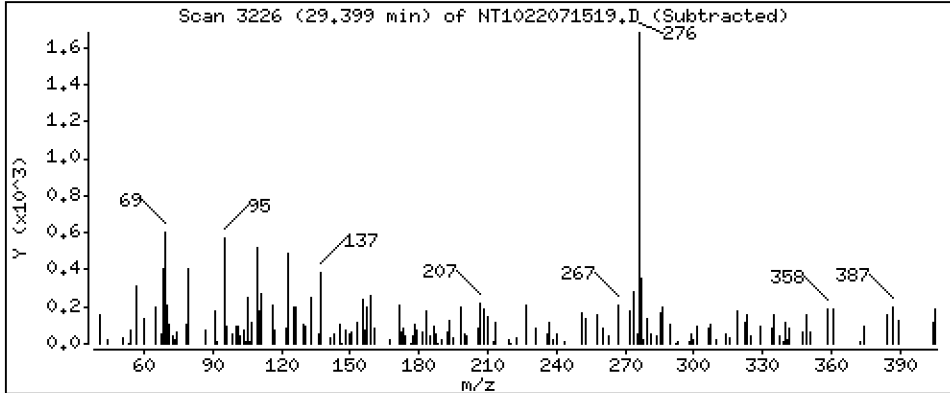
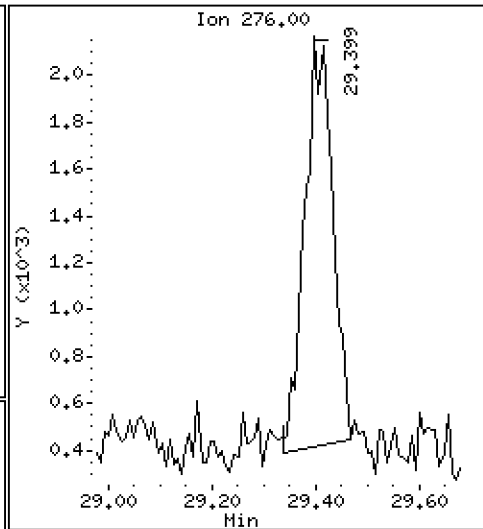
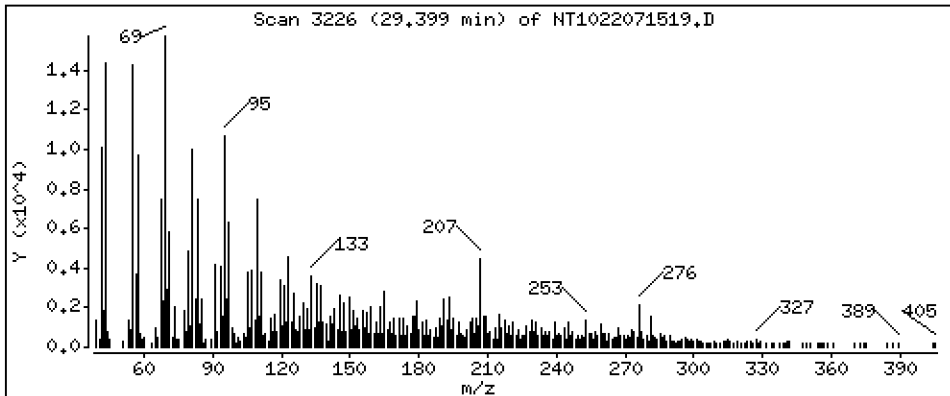
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 1,005 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

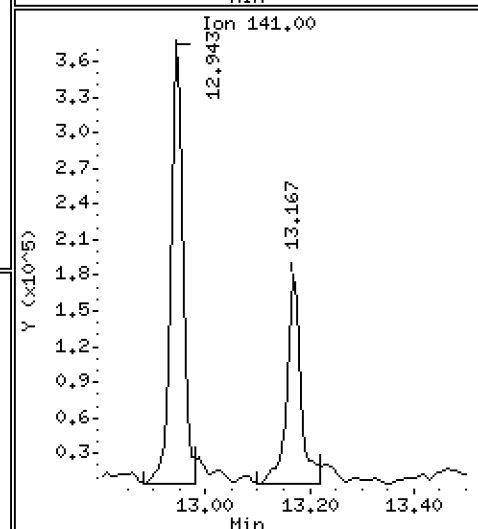
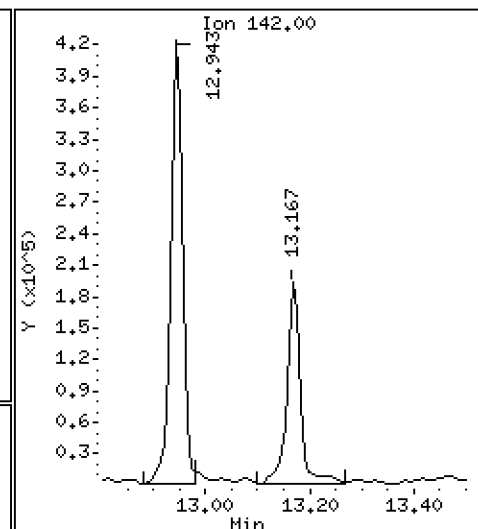
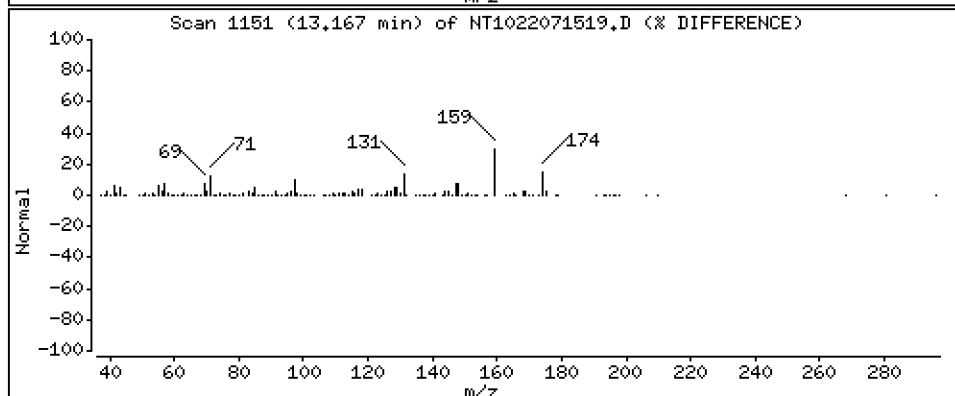
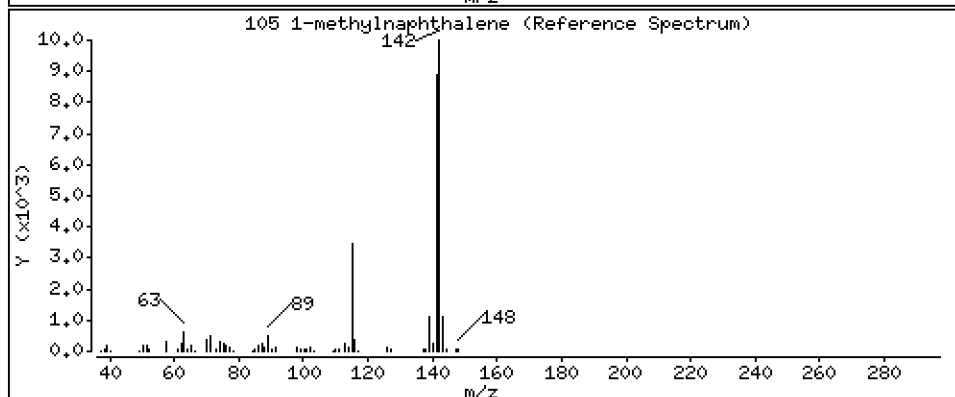
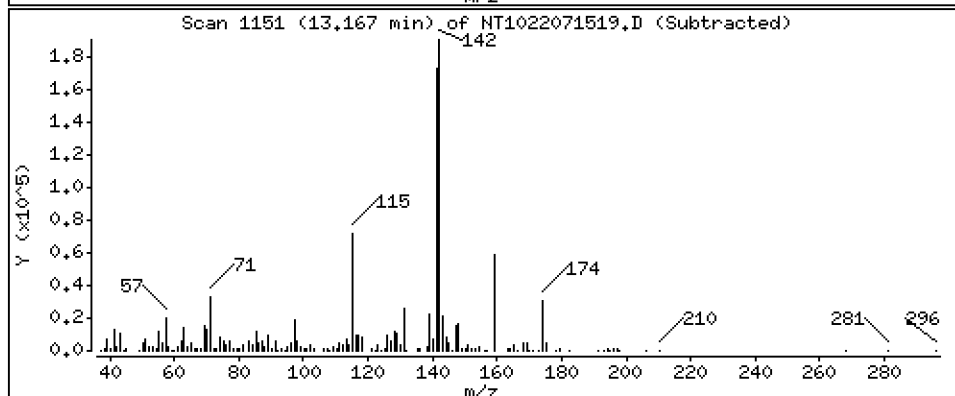
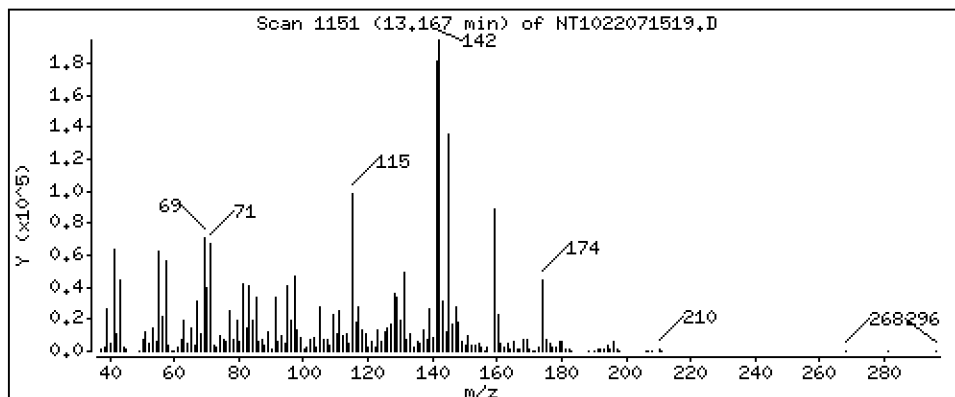
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 9,581 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

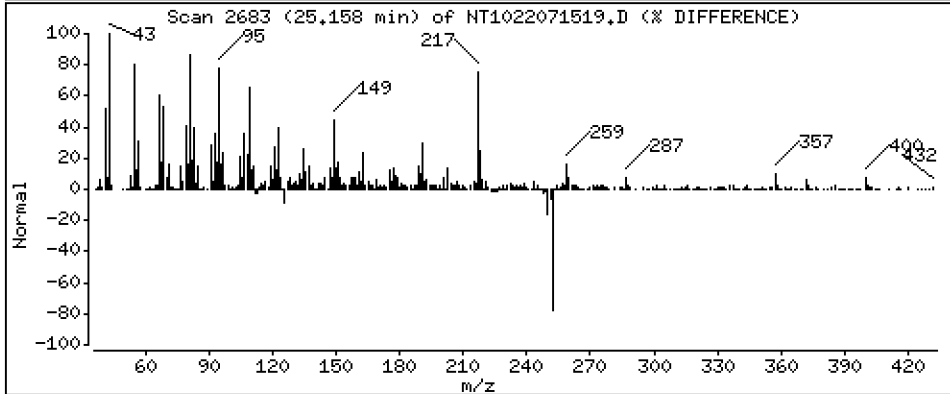
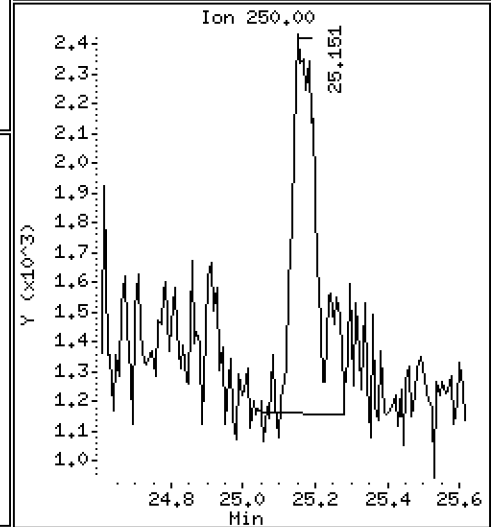
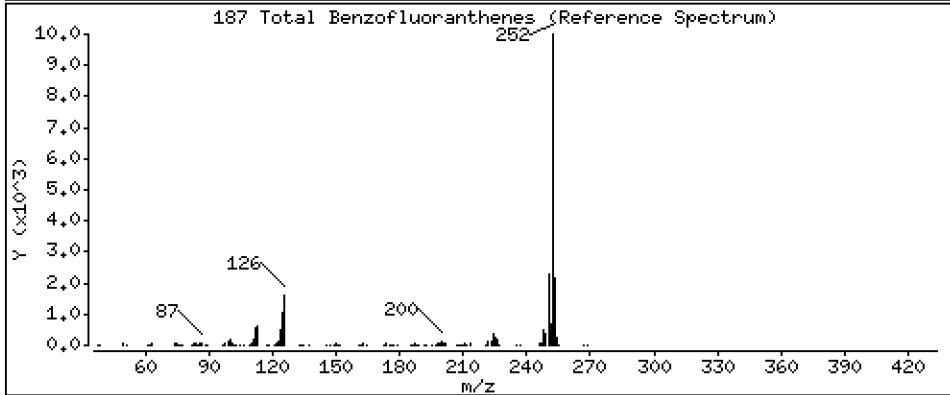
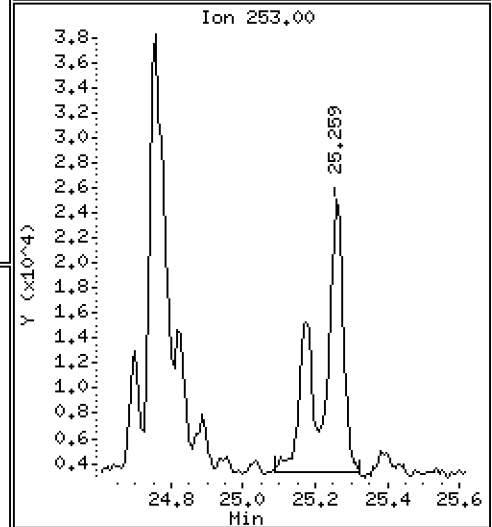
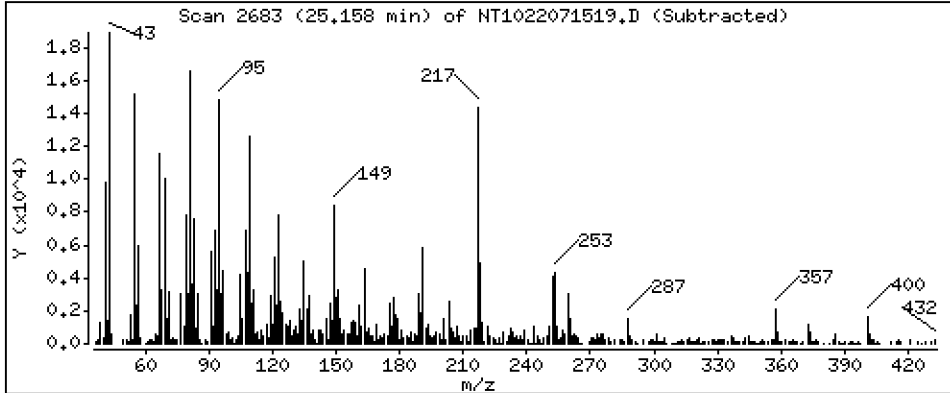
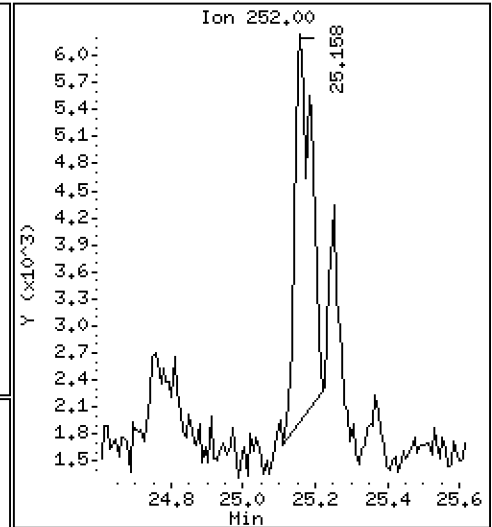
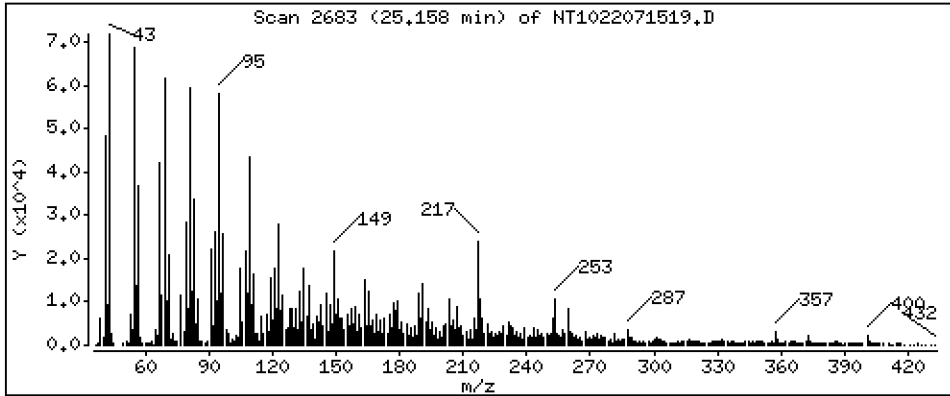
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,601 ug/mL



Date : 15-JUL-2022 23:53

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15,5

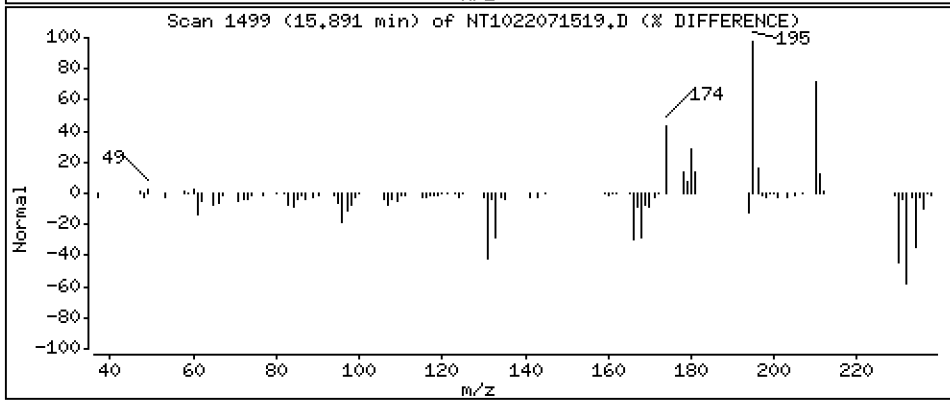
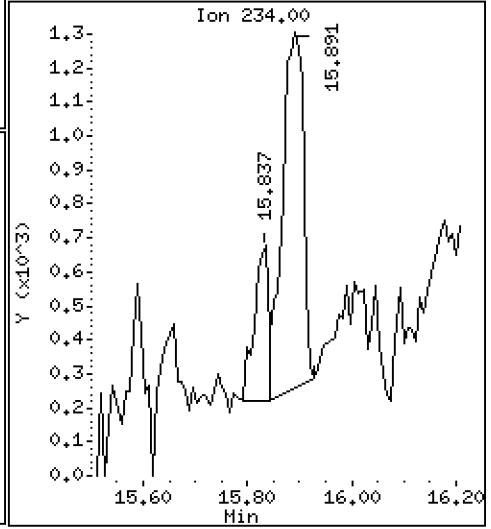
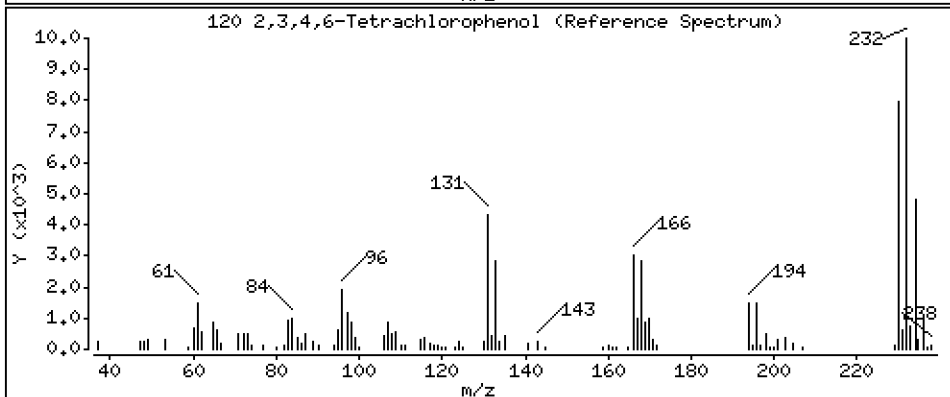
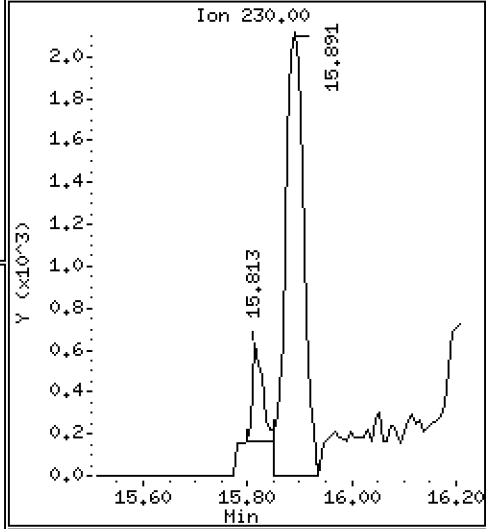
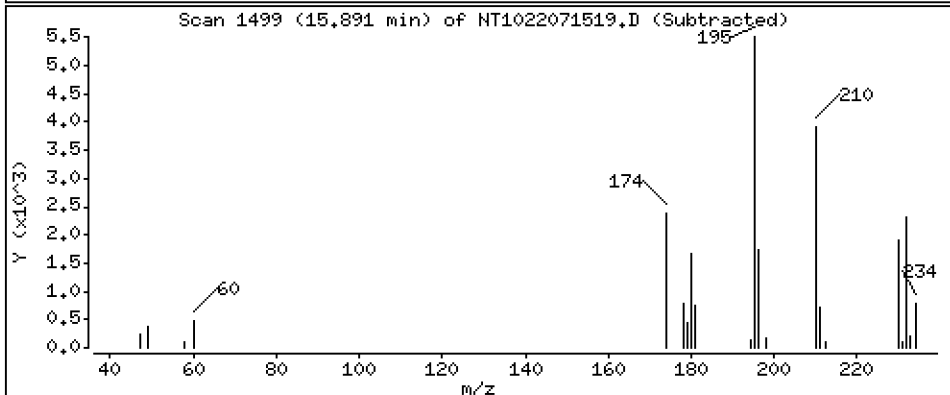
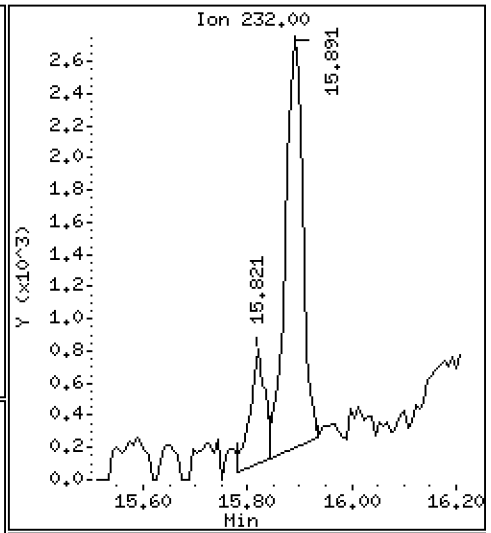
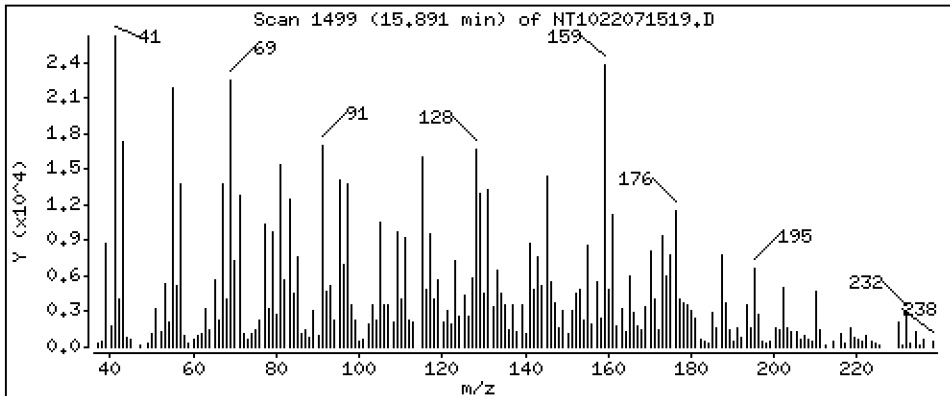
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 2,714 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071519.D
 Lab Smp Id: 22G0019-15
 Inj Date : 15-JUL-2022 23:53
 Operator : VTS
 Smp Info : 22G0019-15,5
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 19
 Dil Factor: 5.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
\$ 1 2-Fluorophenol	112		6.813	6.806	(0.756)	97946	1.06335	5.317
\$ 2 Phenol-d5	99		8.413	8.398	(0.934)	128685	0.94156	4.708
3 Phenol	94		8.436	8.421	(0.936)	9125	0.07662	0.3831
\$ 5 2-Chlorophenol-d4	132		8.660	8.652	(0.961)	123267	1.31337	6.567
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.009	9.001	(1.000)	252252	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.373	9.366	(1.040)	49593	0.85751	4.288
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.816	9.793	(1.090)	3022	0.03851	0.1926
\$ 18 Nitrobenzene-d5	82		10.103	10.095	(0.879)	71464	0.92380	4.619
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.496	11.488	(1.000)	727010	4.00000	
28 Naphthalene	128		11.542	11.535	(1.004)	177177	0.95223	4.761
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		12.942	12.927	(1.126)	698938	3.77964	18.90
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.732	13.716	(0.907)	109259	1.87097	9.355
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152		14.854	14.800	(0.982)	178017	2.35989	11.80
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.133	15.109	(1.000)	129046	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153		15.202	15.179	(1.005)	11240	0.29949	1.497 (M)
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.535	15.511	(1.027)	112498	1.88616	9.431
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		16.277	16.223	(1.076)	53437	0.74980	3.749
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.801	16.762	(1.110)	2934	0.50421	2.521
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266		17.944	17.906	(0.986)	2653	1.12785	5.639
* 59 Phenanthrene-d10	188		18.192	18.161	(1.000)	156470	4.00000	
60 Phenanthrene	178		18.238	18.207	(1.003)	55044	1.33902	6.695
61 Anthracene	178		18.331	18.300	(1.008)	141719	3.23509	16.18
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.637	20.606	(0.887)	67442	0.93497	4.675
65 Pyrene	202		21.062	21.031	(0.905)	141509	2.21715	11.09
\$ 66 Terphenyl-d14	244		21.349	21.326	(0.917)	28819	0.81031	4.052
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.238	23.215	(0.999)	15538	0.35979	1.799
* 69 Chrysene-d12	240		23.269	23.246	(1.000)	101915	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.308	23.292	(1.002)	19968	0.69476	3.474
72 bis(2-Ethylhexyl)phthalate	149		23.339	23.308	(0.959)	5567	0.22808	1.140
* 134 Di-n-octylphthalate-d4	153		24.330	24.306	(1.000)	220820	4.00000	
73 Di-n-octylphthalate	149		24.353	24.314	(1.001)	12972	0.25846	1.292 (M)
74 Benzo(b)fluoranthene	252		25.158	25.112	(0.970)	10450	0.22573	1.129
75 Benzo(k)fluoranthene	252		25.181	25.158	(0.971)	8937	0.20076	1.004 (M)
76 Benzo(a)pyrene	252		25.816	25.762	(0.996)	9704	0.25612	1.281
* 77 Perylene-d12	264		25.932	25.878	(1.000)	102219	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.622	28.544	(1.104)	5093	0.12590	0.6295 (M)
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276		29.398	29.329	(1.134)	6502	0.20107	1.005
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.167	13.151	(1.145)	348139	1.91625	9.581
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252		25.158	25.112	(0.970)	13824	0.32027	1.601 (M)
120 2,3,4,6-Tetrachlorophenol	232		15.890	15.859	(1.050)	6181	0.54285	2.714

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071519.D Calibration Time: 12:41
 Lab Smp Id: 22G0019-15
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	252252	25.16
27 Naphthalene-d8	649654	324827	1299308	727010	11.91
42 Acenaphthene-d10	370460	185230	740920	129046	-65.17 <-
59 Phenanthrene-d10	647298	323649	1294596	156470	-75.83 <-
69 Chrysene-d12	221116	110558	442232	101915	-53.91 <-
134 Di-n-octylphthala	319144	159572	638288	220820	-30.81
77 Perylene-d12	105234	52617	210468	102219	-2.87

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.01	0.09
27 Naphthalene-d8	11.49	10.99	11.99	11.50	0.07
42 Acenaphthene-d10	15.11	14.61	15.61	15.13	0.15
59 Phenanthrene-d10	18.16	17.66	18.66	18.19	0.17
69 Chrysene-d12	23.25	22.75	23.75	23.27	0.10
134 Di-n-octylphthala	24.31	23.81	24.81	24.33	0.10
77 Perylene-d12	25.88	25.38	26.38	25.93	0.21

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

REVIEW SUMMARY FOR FILE - NT1022071519.D

Lab ID: 22G0019-15
nt10.i, ABN.m, 15-JUL-2022 23:53

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

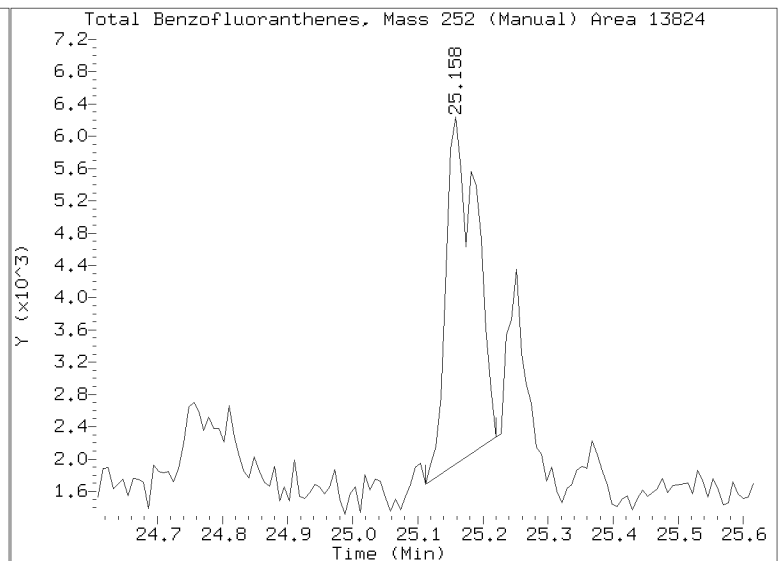
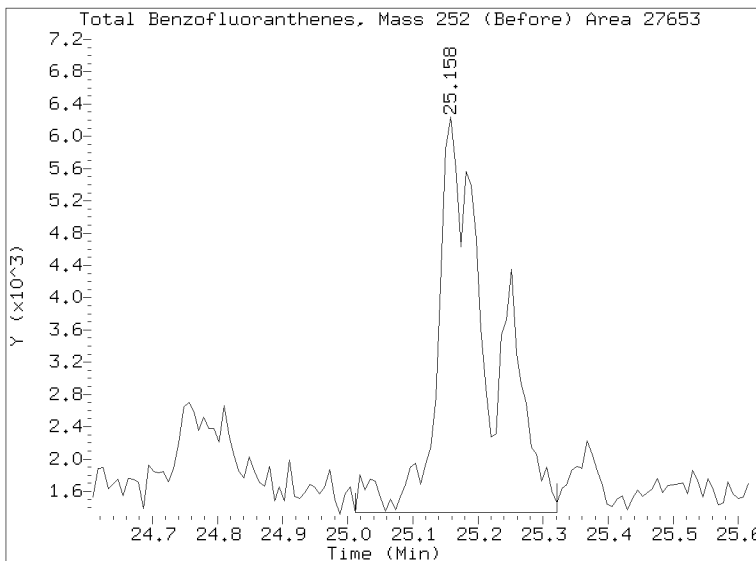
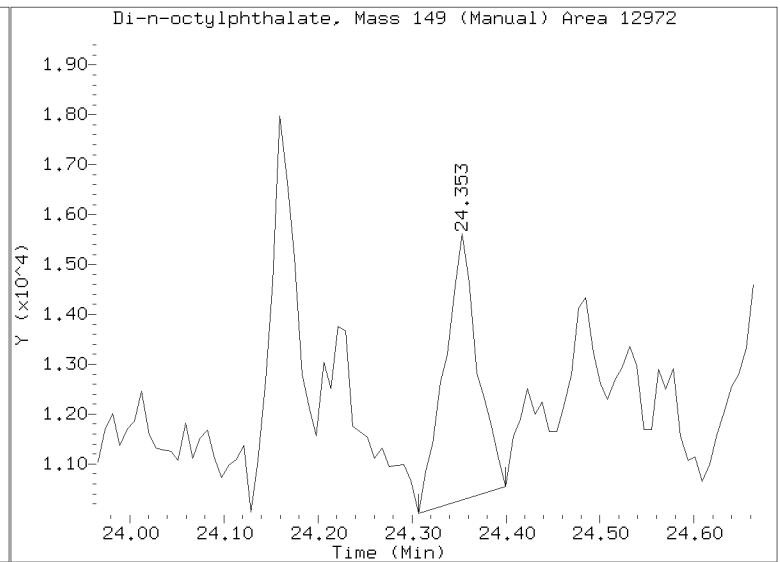
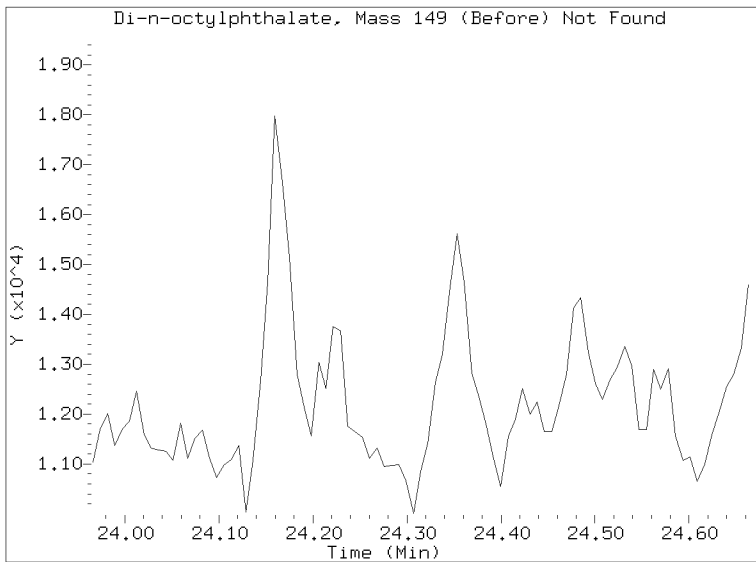
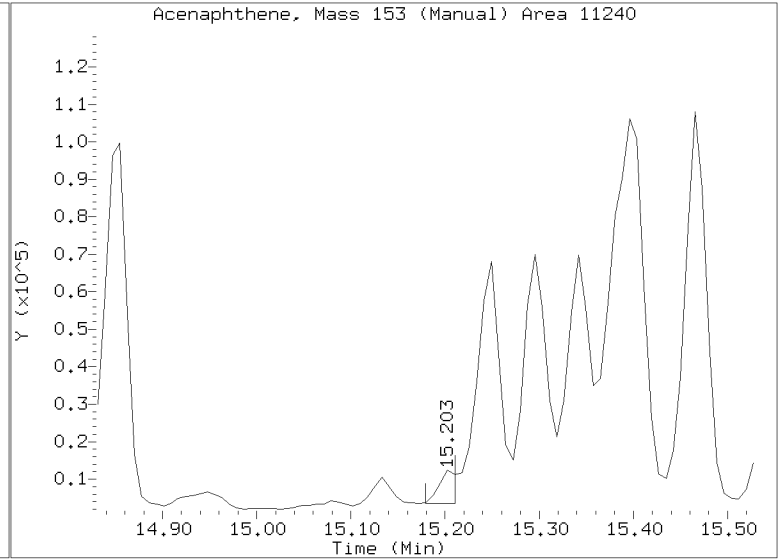
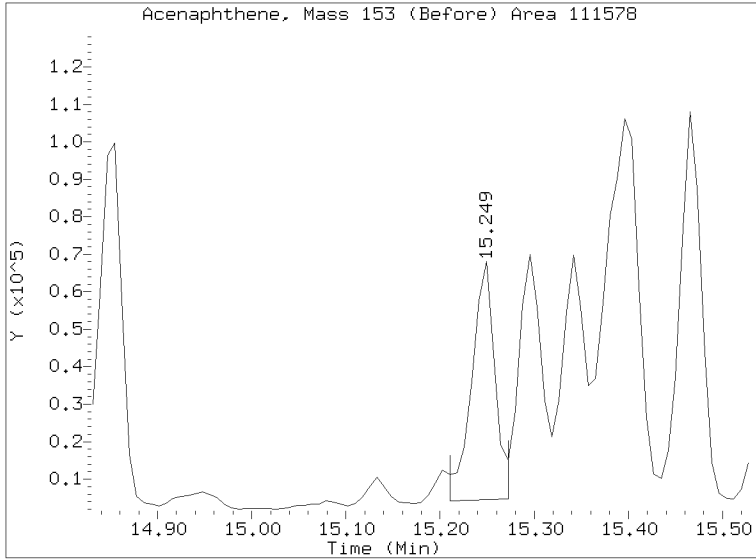
RRT check based on Ccal File: NT1022071502.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071519.D
Injection Date: 15-JUL-2022 23:53
Lab ID:22G0019-15 Client ID:
Report Date: 07/16/2022 09:03



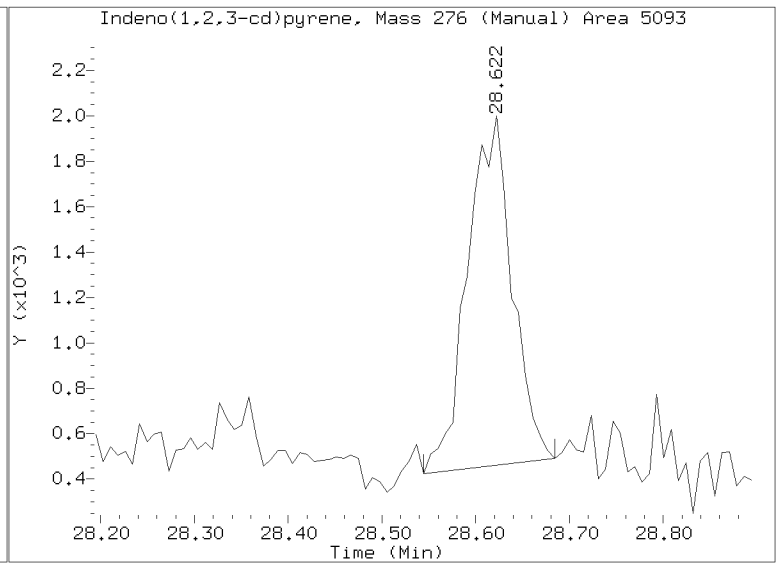
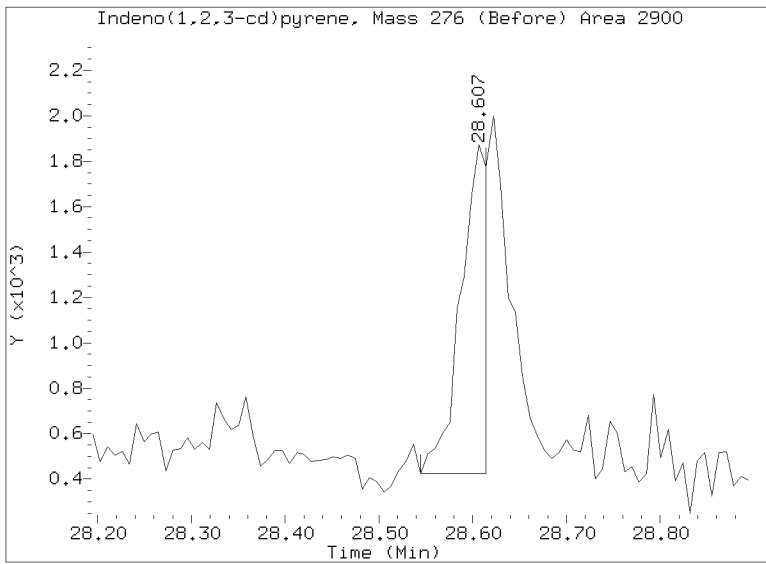
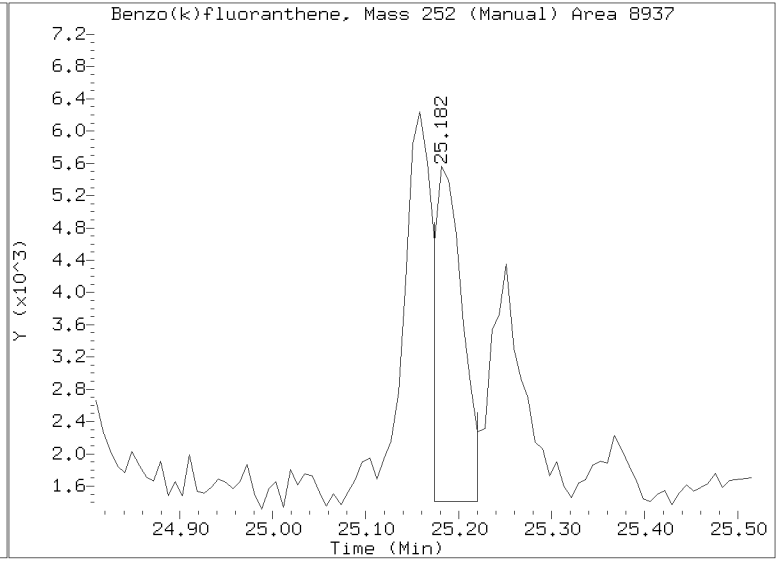
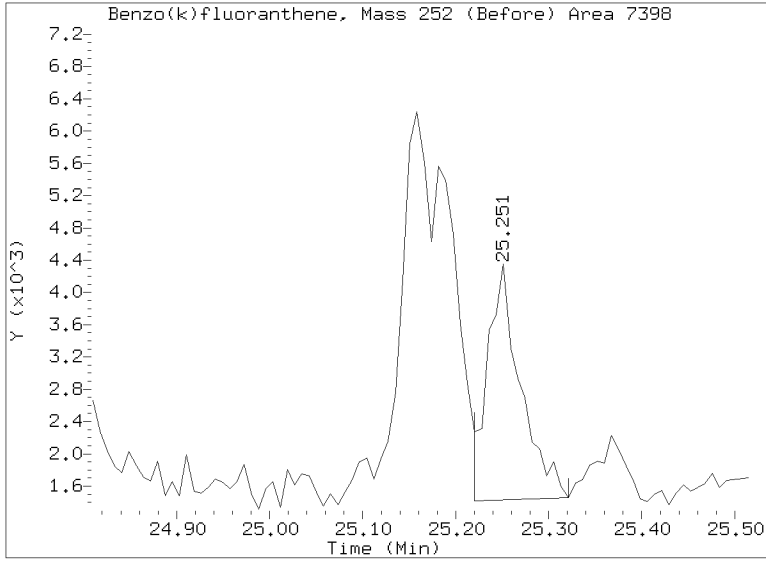
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071519.D

Injection Date: 15-JUL-2022 23:53

Lab ID:22G0019-15 Client ID:

Report Date: 07/16/2022 09:03





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

Laboratory: Analytical Resources, LLC
 Client: GeoEngineers
 Project: RG Haley Site-Bellingham
 Matrix: Solid Laboratory ID: 22G0019-15RE1 A SDG: 22G0019
 Sampled: 06/29/22 12:40 Prepared: 07/07/22 10:01 File ID: NT1022071613.D
 % Solids: 56.93 Preparation: EPA 3546 (Microwave) Analyzed: 07/16/22 18:21
 Batch: BKG0069 Sequence: SKG0171 Initial/Final: 17.59 g Wet / 1 mL
 Instrument: NT10 Column: ZB-5MSi Calibration: FF00062
 Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	20	478	D	84.7	399
91-57-6	2-Methylnaphthalene	20	2150	D	90.1	399
83-32-9	Acenaphthene	20	104	U	104	399
87-86-5	Pentachlorophenol	20	624	U	624	2000
85-01-8	Phenanthrene	20	585	D	174	399
206-44-0	Fluoranthene	20	677	D	122	399
56-55-3	Benzo(a)anthracene	20	190	J, D	119	399
218-01-9	Chrysene	20	314	J, D	121	399
205-99-2	Benzo(b)fluoranthene	20	140	U	140	399
207-08-9	Benzo(k)fluoranthene	20	100	U	100	399
50-32-8	Benzo(a)pyrene	20	131	J, D	84.5	399
193-39-5	Indeno(1,2,3-cd)pyrene	20	293	U	293	399
53-70-3	Dibenzo(a,h)anthracene	20	344	U	344	399
90-12-0	1-Methylnaphthalene	20	998	D	105	399

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.95	555	74.1	27 - 120	
Phenol-d5	748.95	499	66.6	29 - 120	
2-Chlorophenol-d4	748.95	675	90.1	31 - 120	
1,2-Dichlorobenzene-d4	499.30	536	107	32 - 120	Q
Nitrobenzene-d5	499.30	491	98.4	30 - 120	
2-Fluorobiphenyl	499.30	784	157	35 - 120	
2,4,6-Tribromophenol	748.95	142	19.0	24 - 134	Q
p-Terphenyl-d14	499.30	580	116	37 - 120	

Data File: \\target\share\chem3\nt10.1\20220716A.B\NT1022071613.D

Date: 16-JUL-2022 18:21

Client ID:

Sample Info: 22C0019-15RE1.20

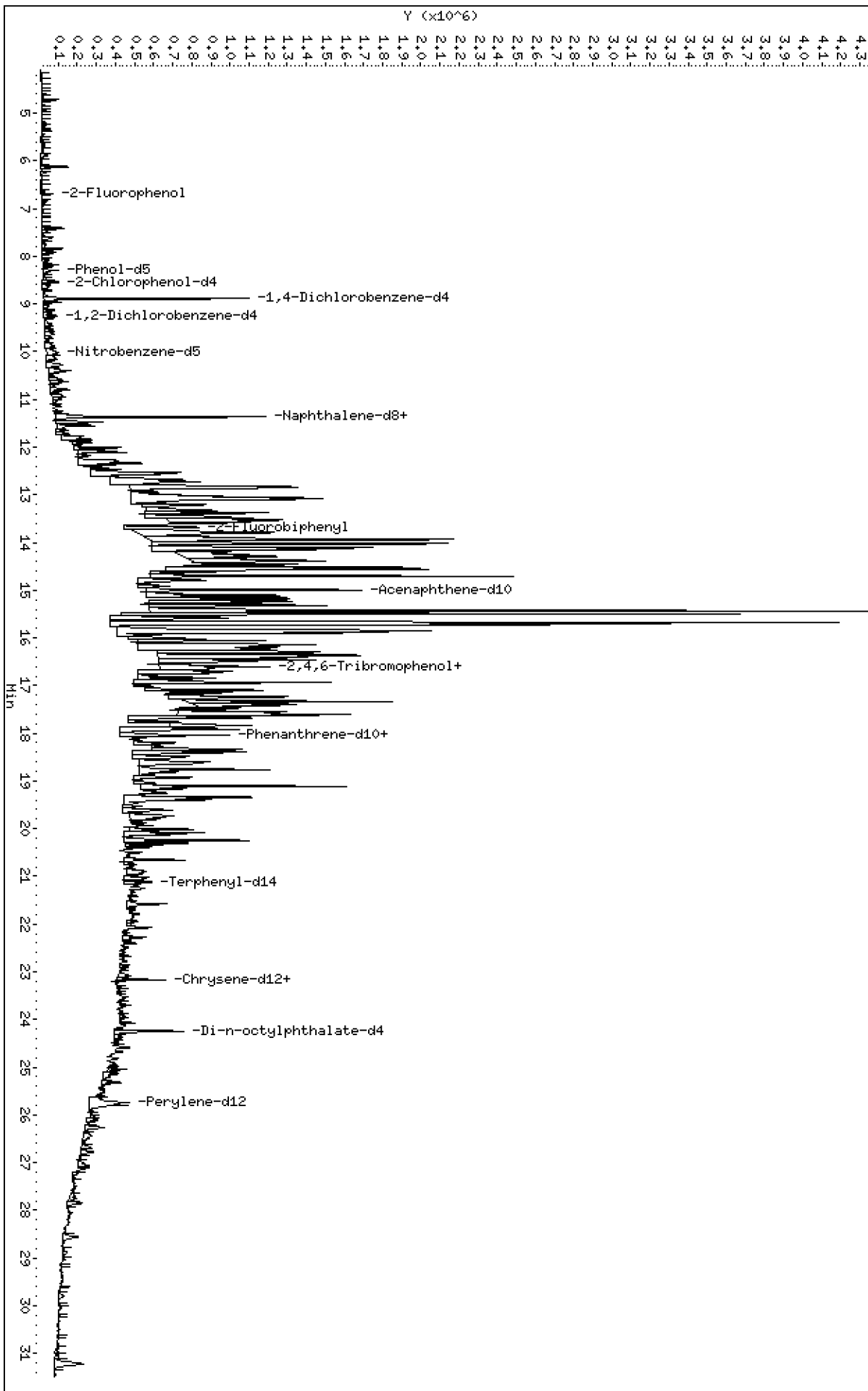
Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Column phase: ZB-5msi

\\target\share\chem3\nt10.1\20220716A.B\NT1022071613.D



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15RE1,20

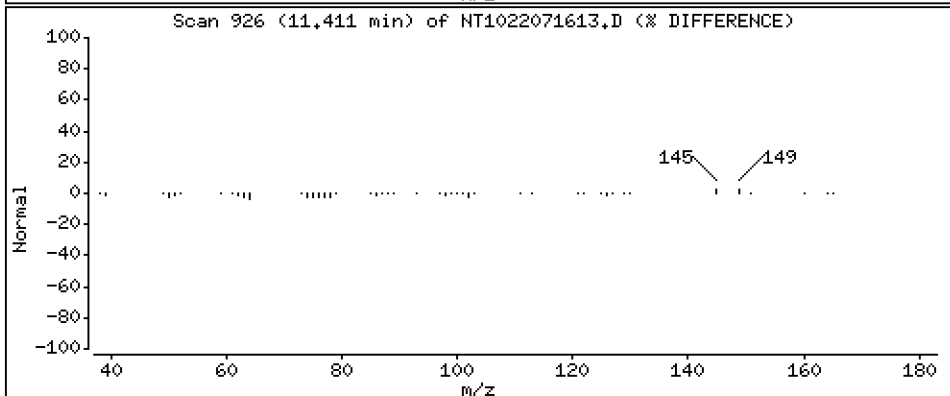
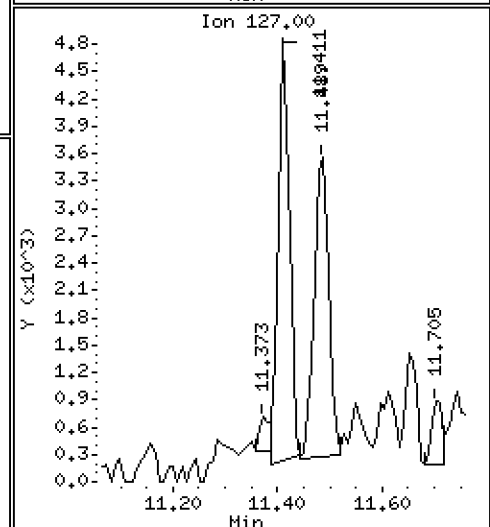
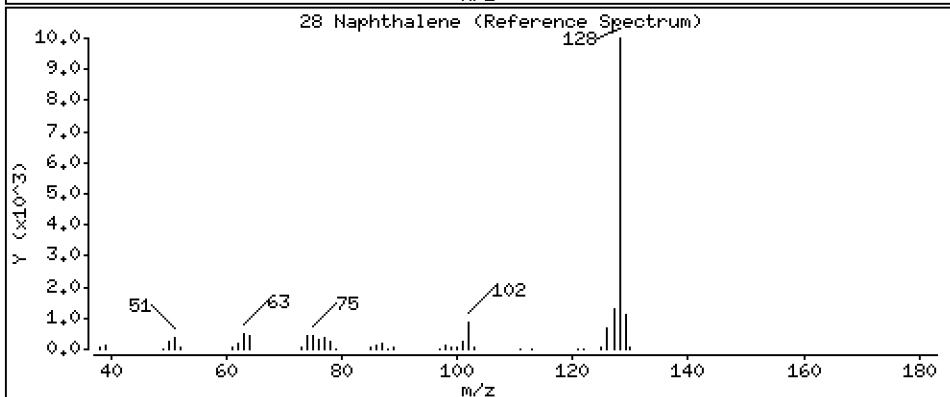
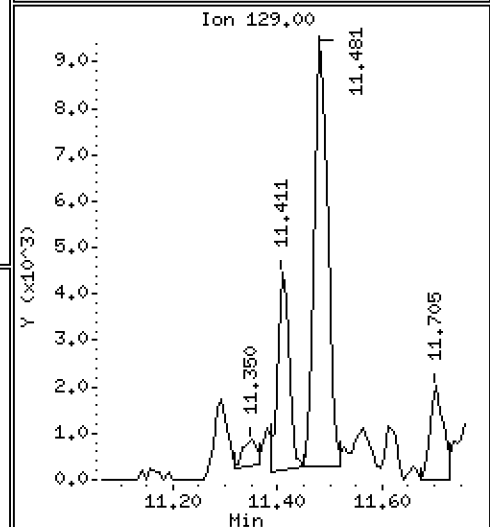
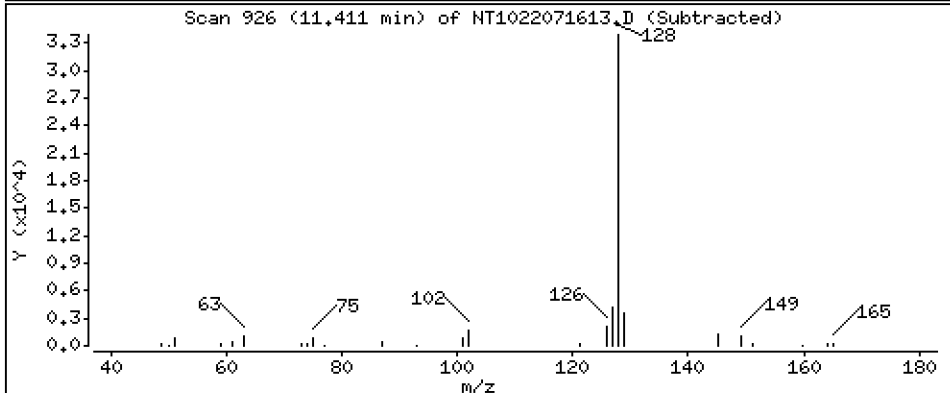
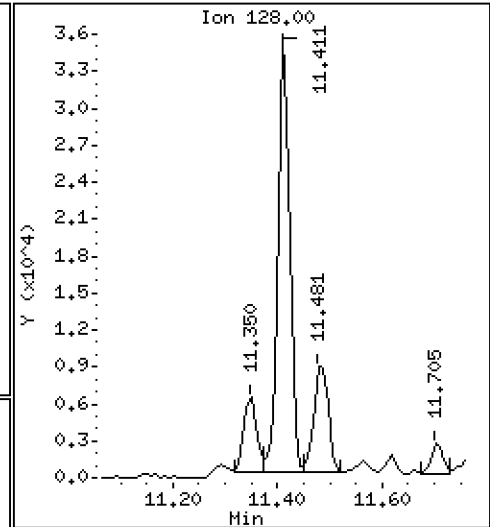
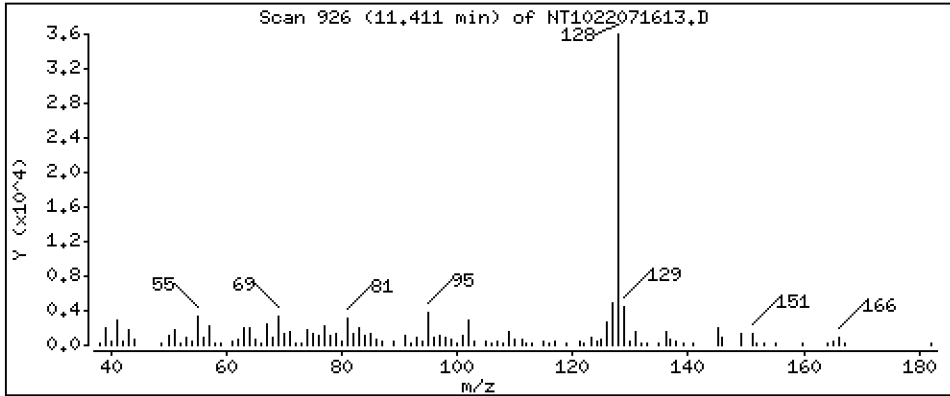
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 4.790 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15RE1,20

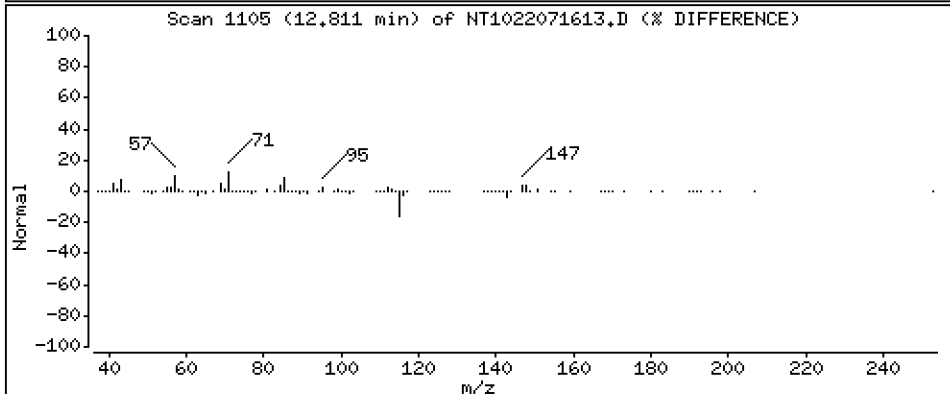
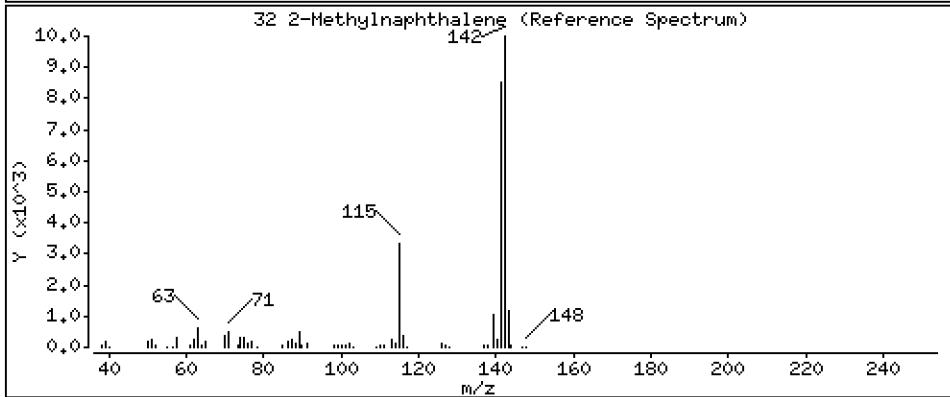
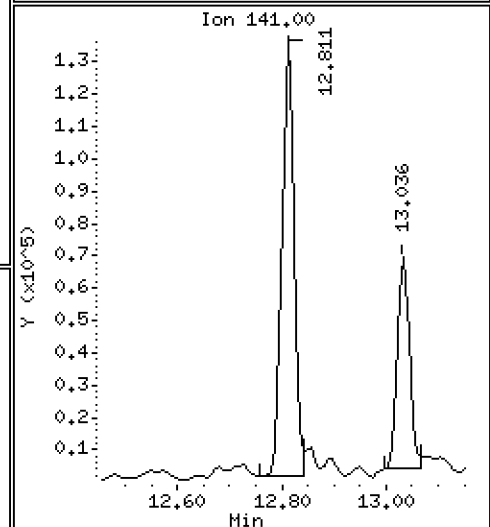
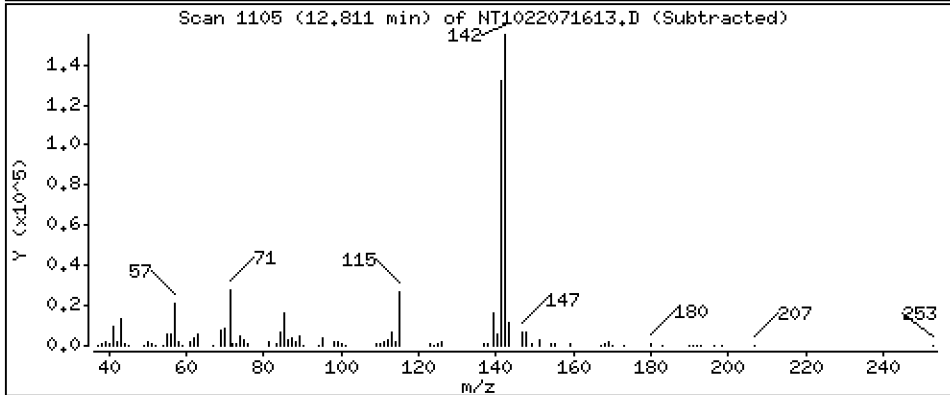
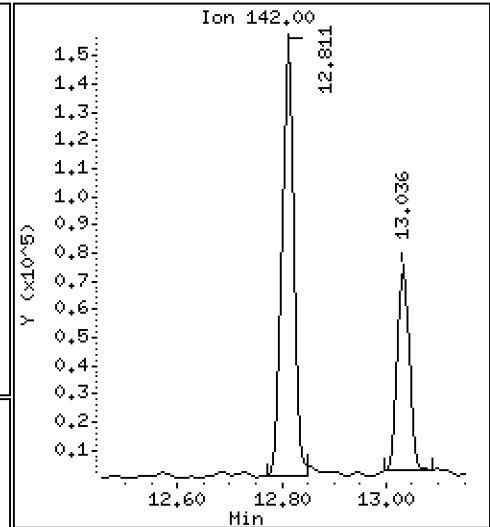
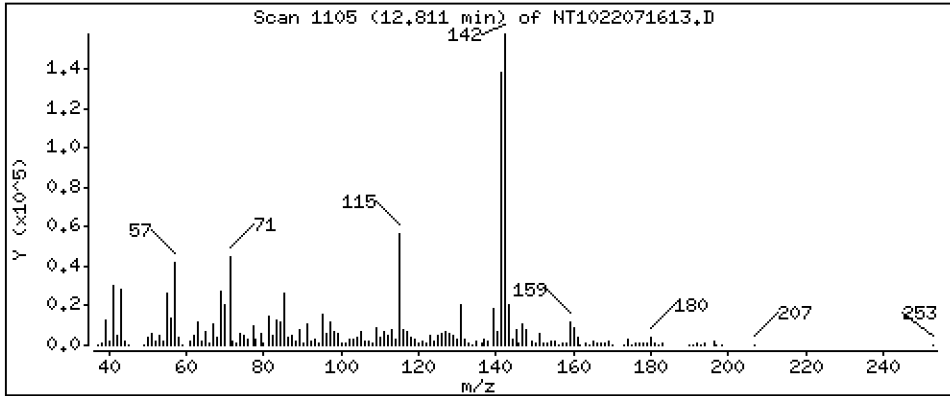
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 21,49 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15RE1,20

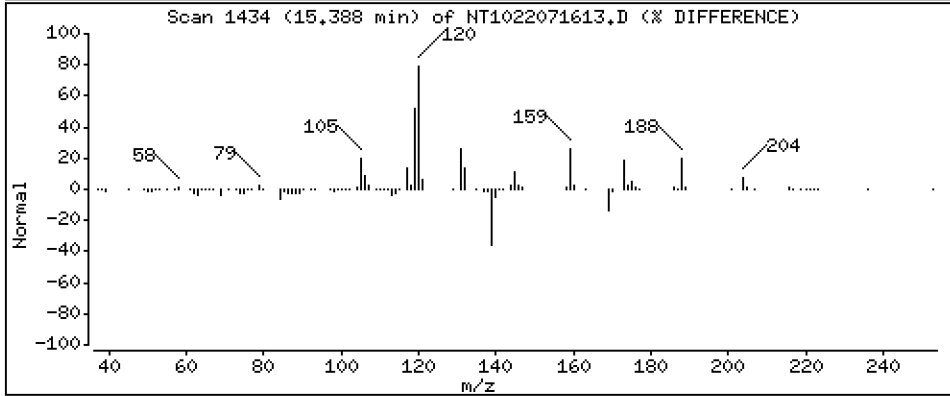
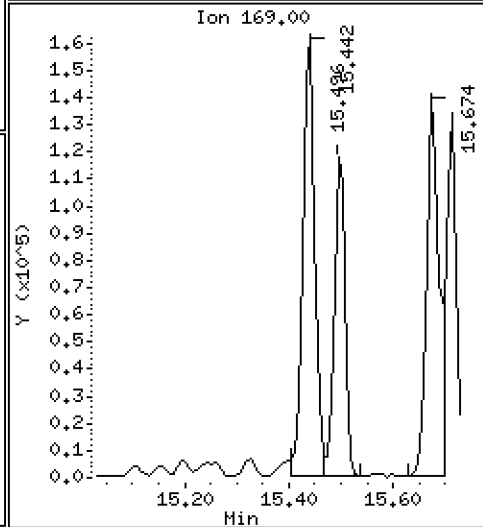
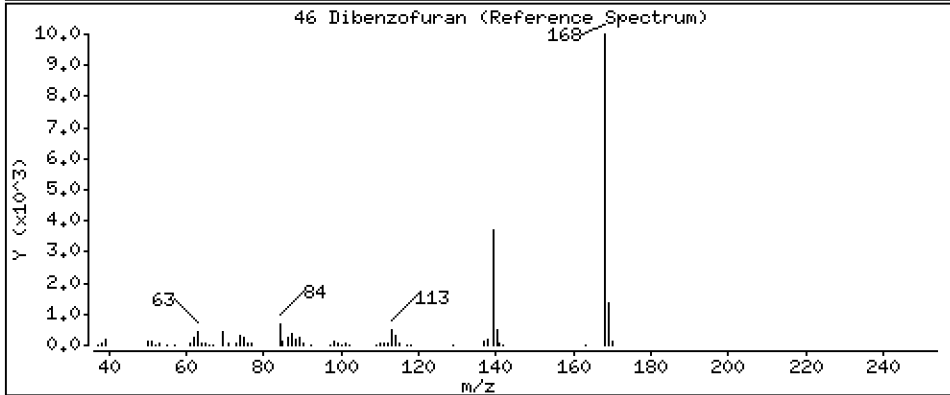
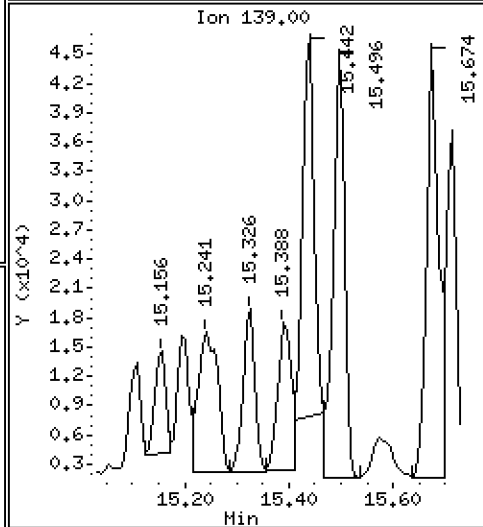
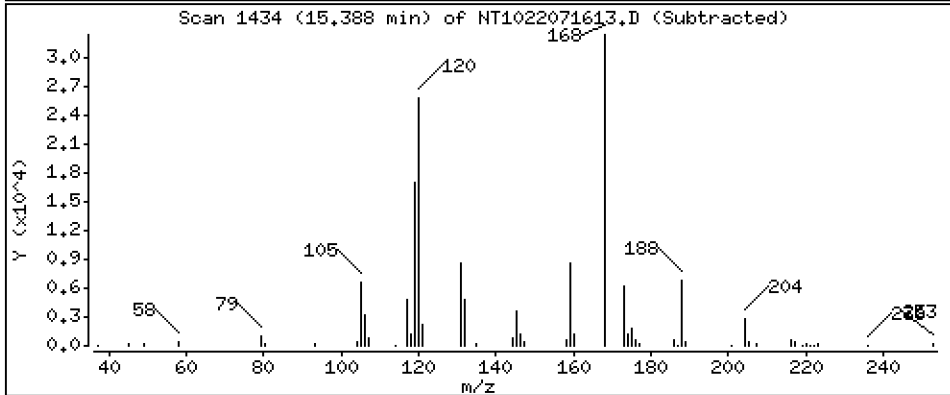
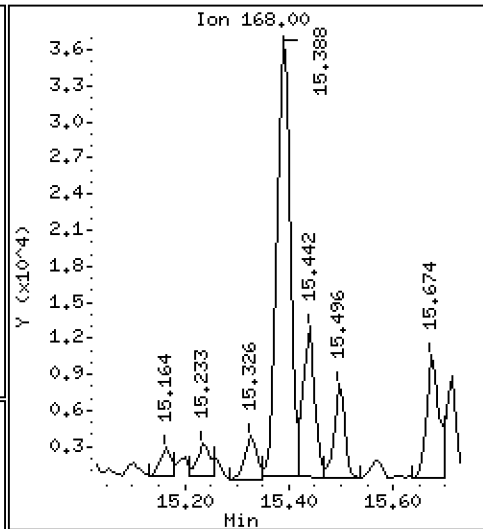
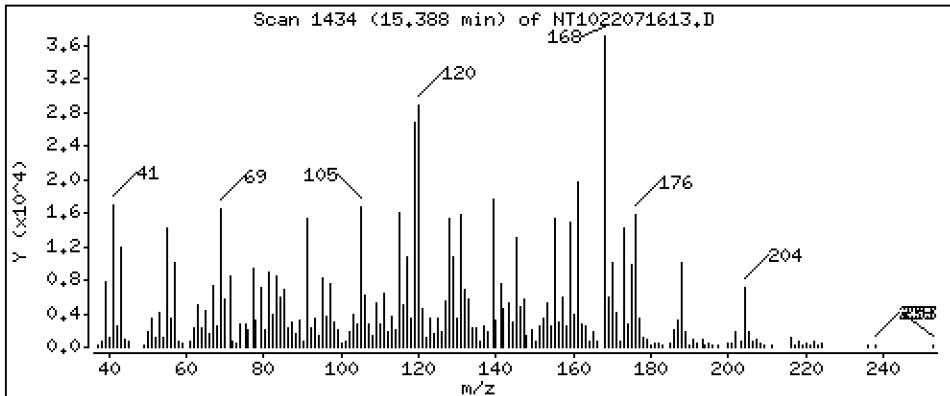
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 10,78 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15RE1,20

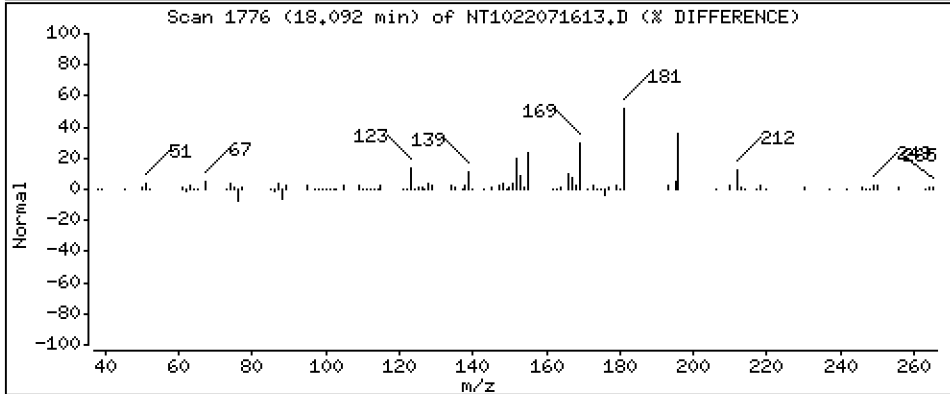
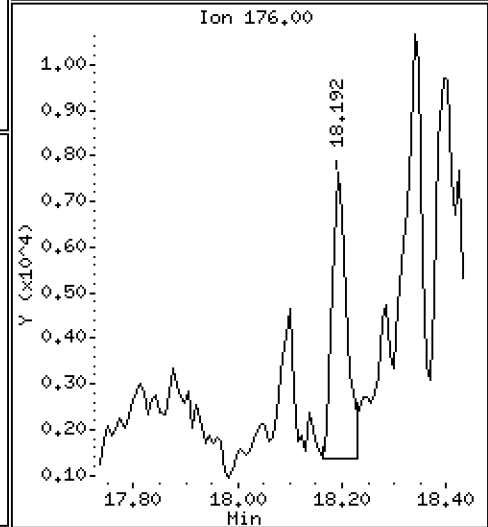
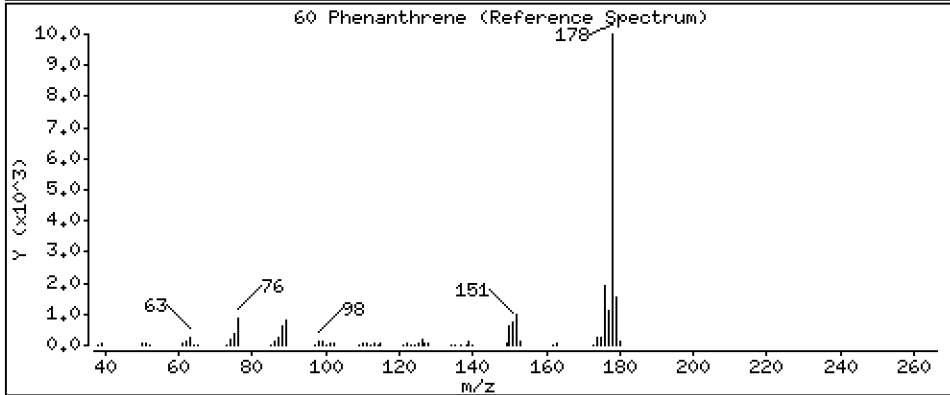
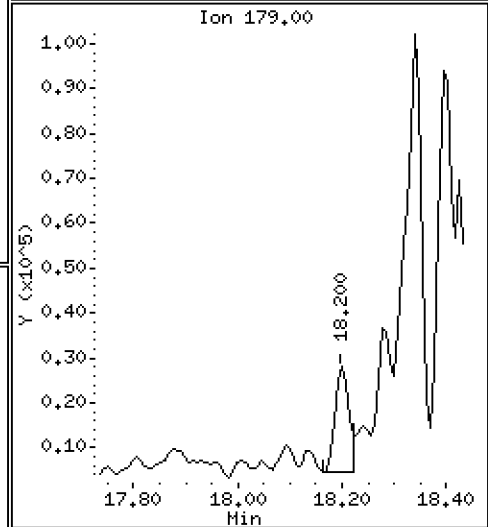
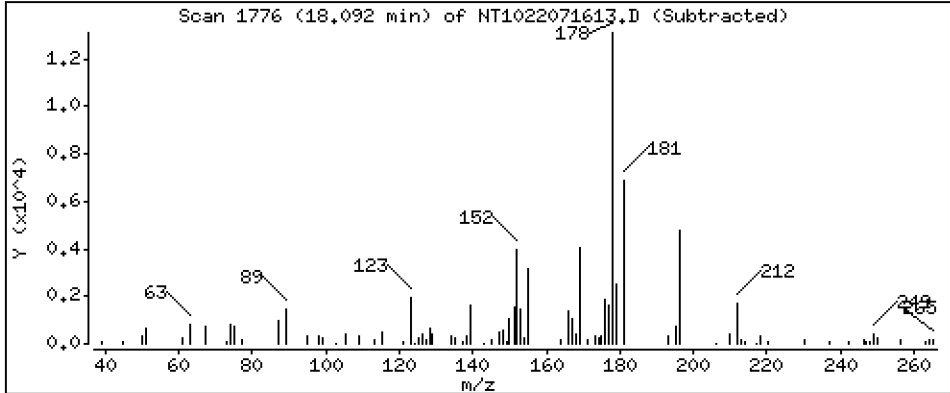
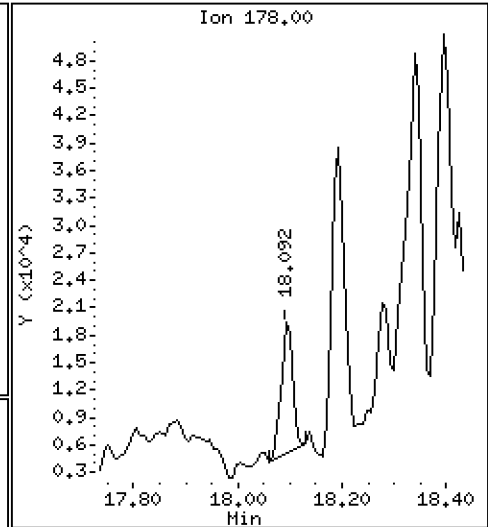
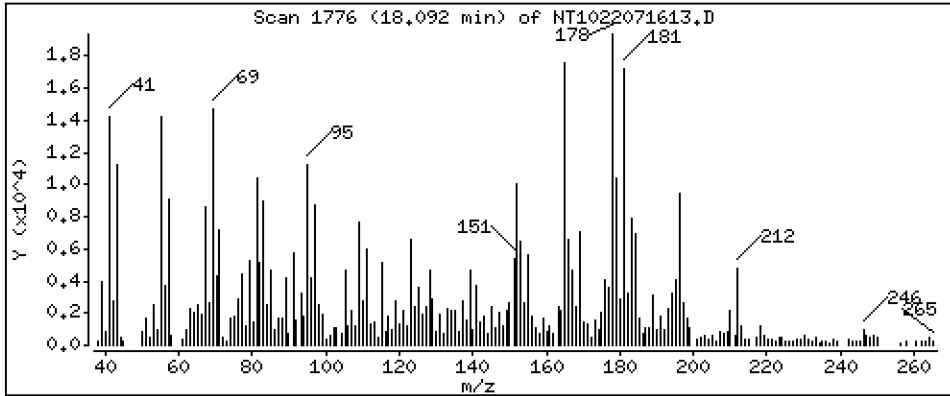
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 5,859 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15RE1,20

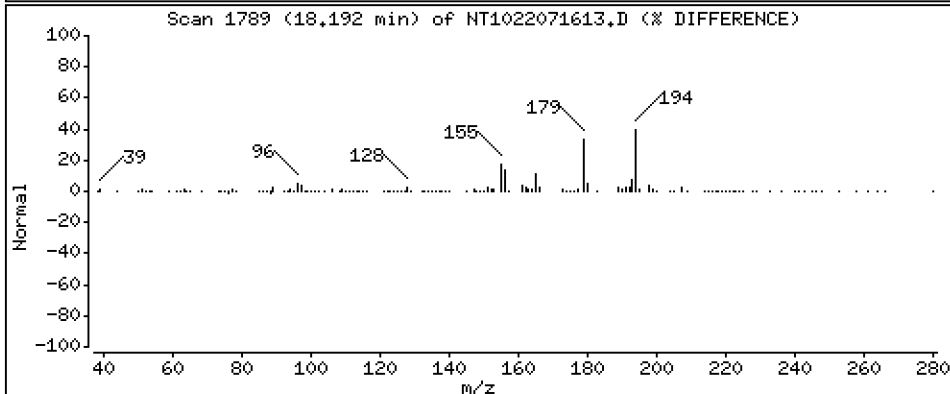
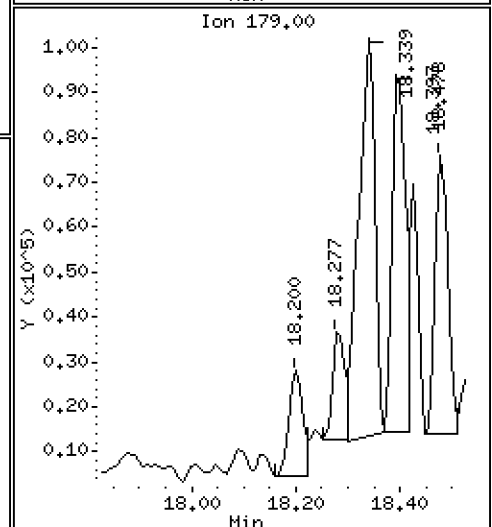
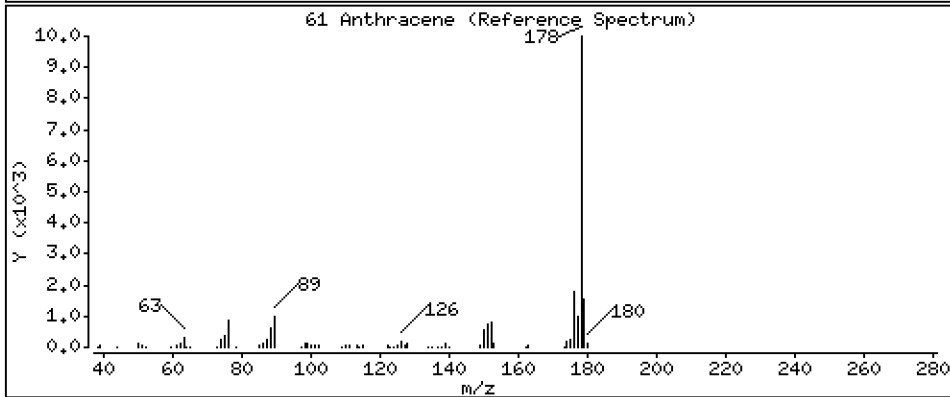
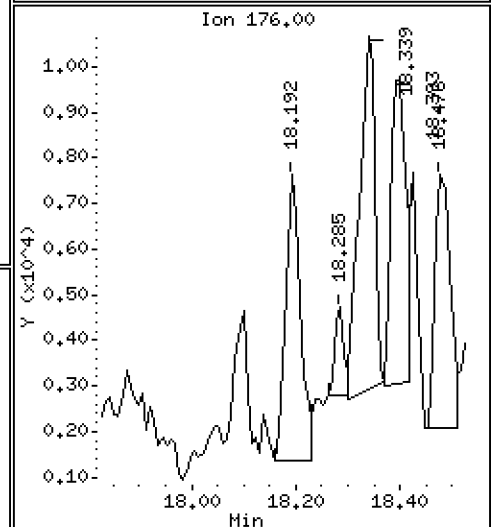
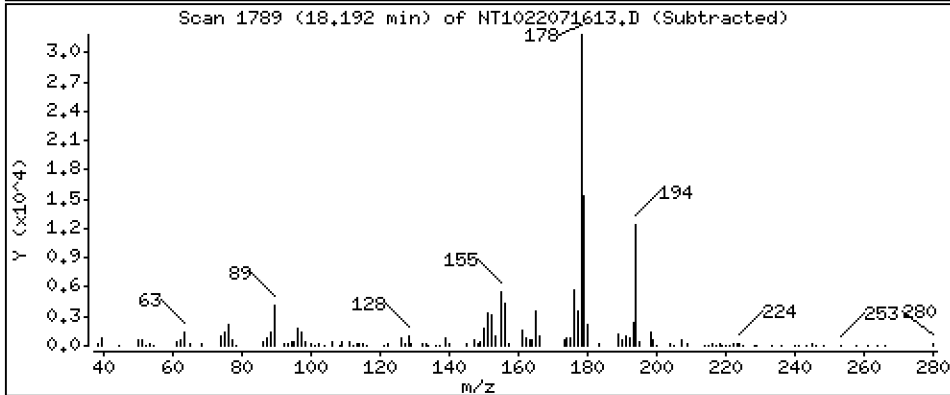
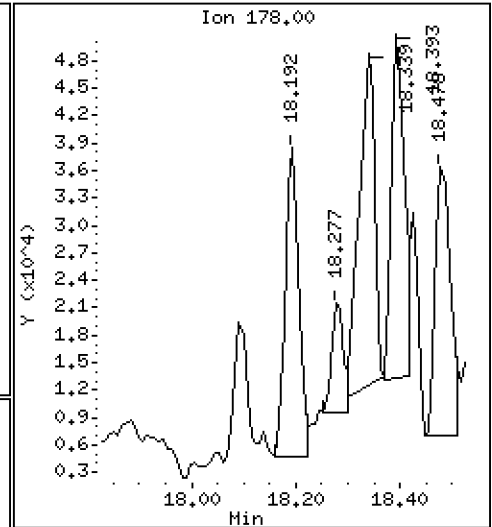
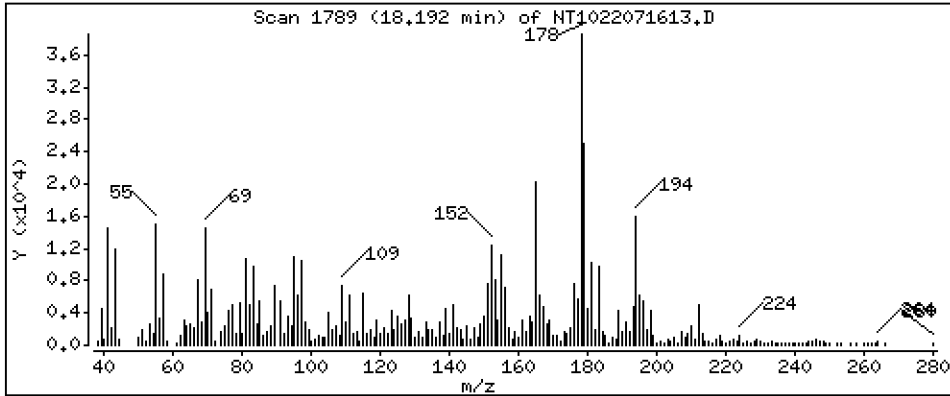
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 15,63 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15RE1,20

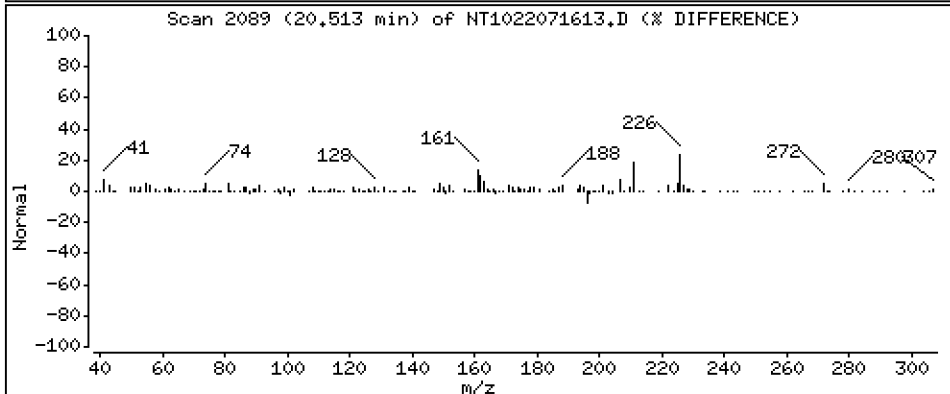
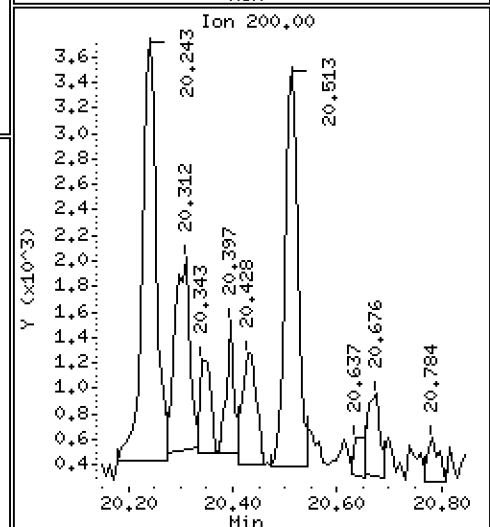
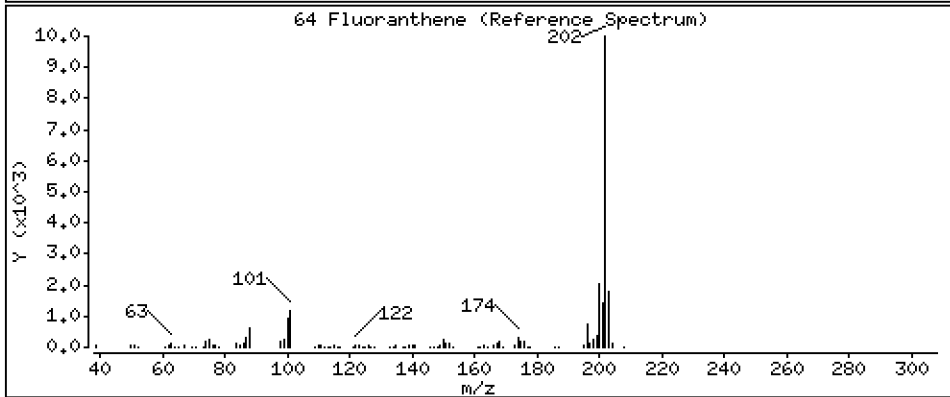
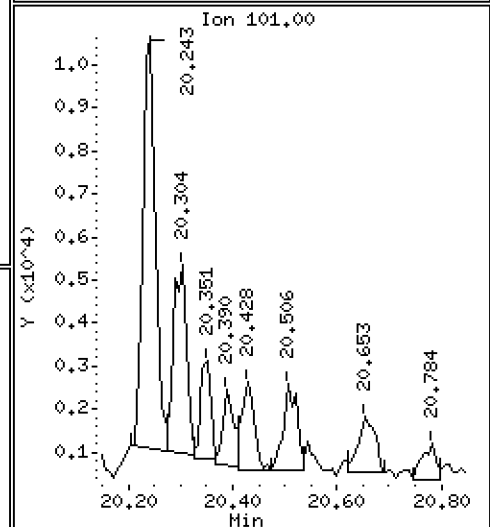
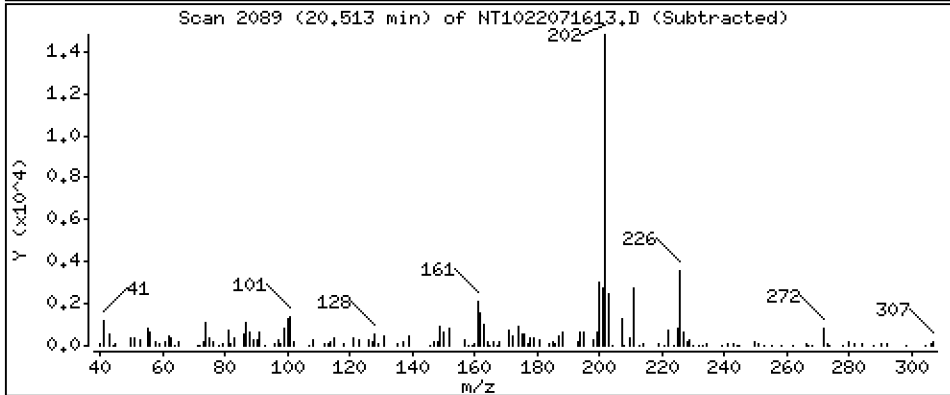
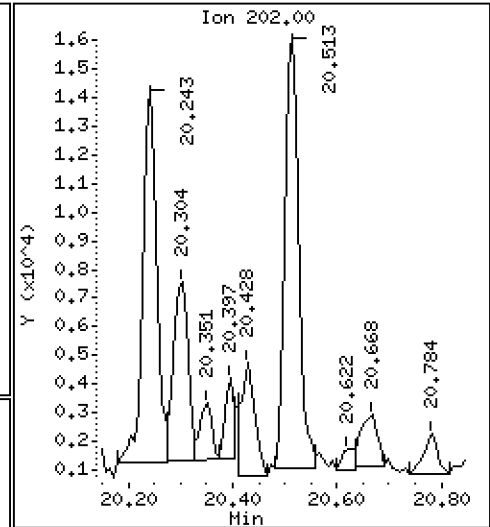
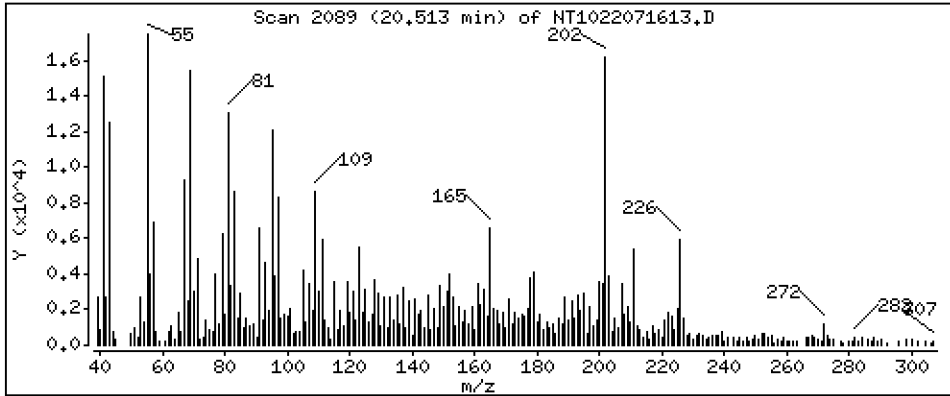
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 6,776 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15RE1,20

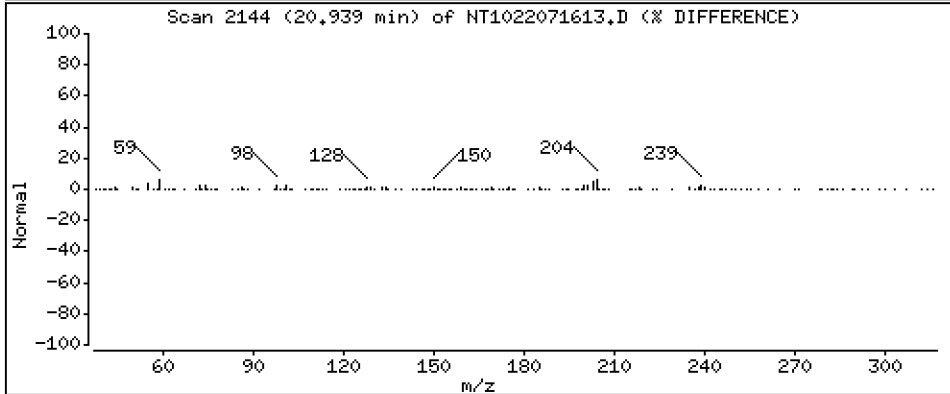
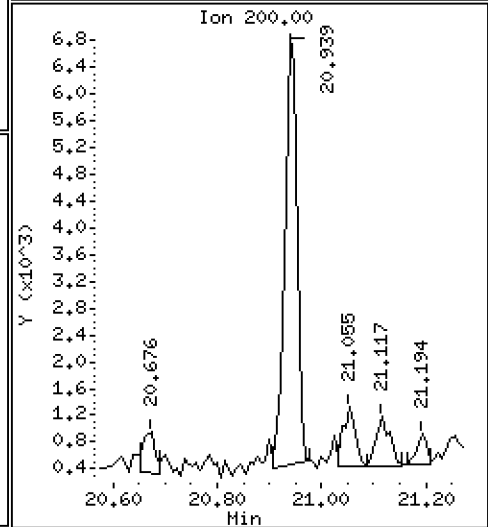
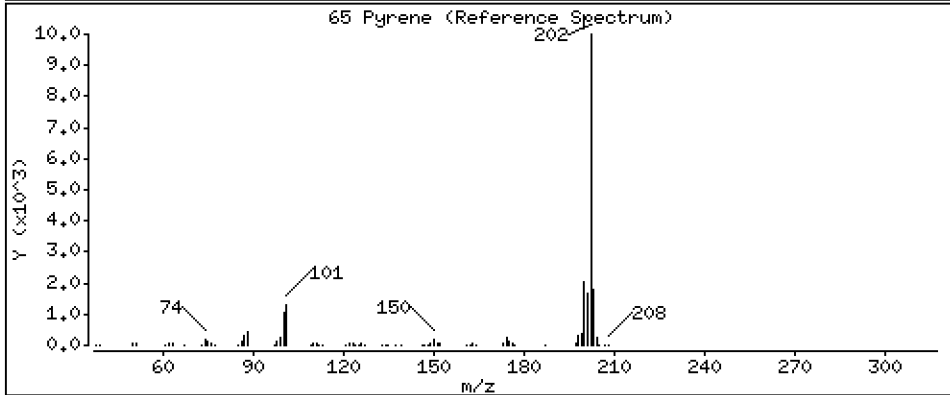
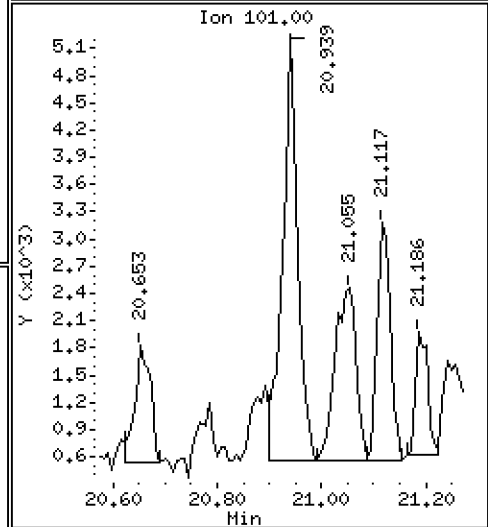
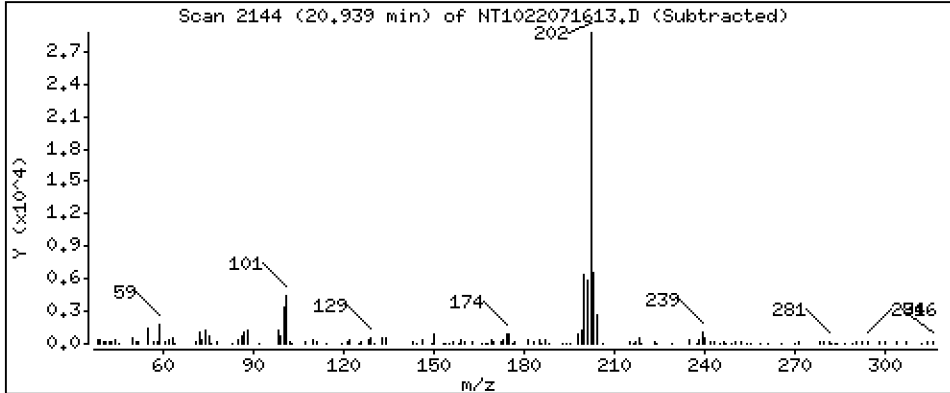
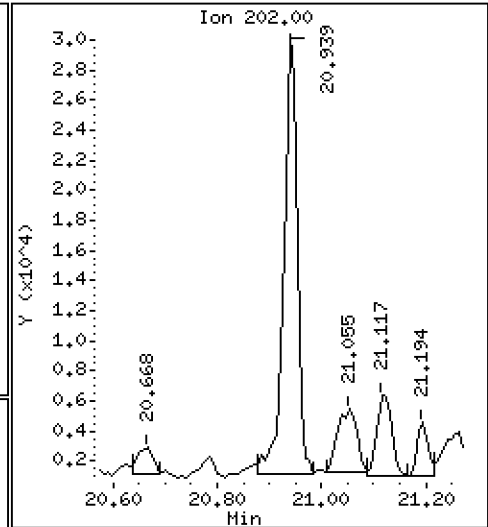
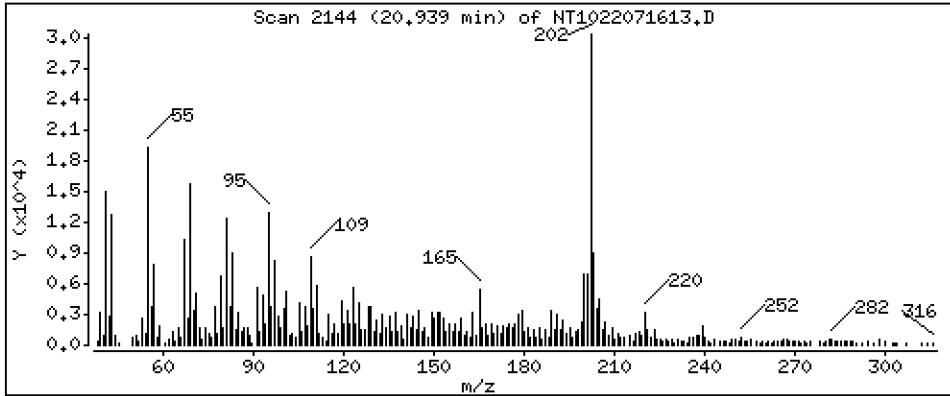
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 14,83 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15RE1,20

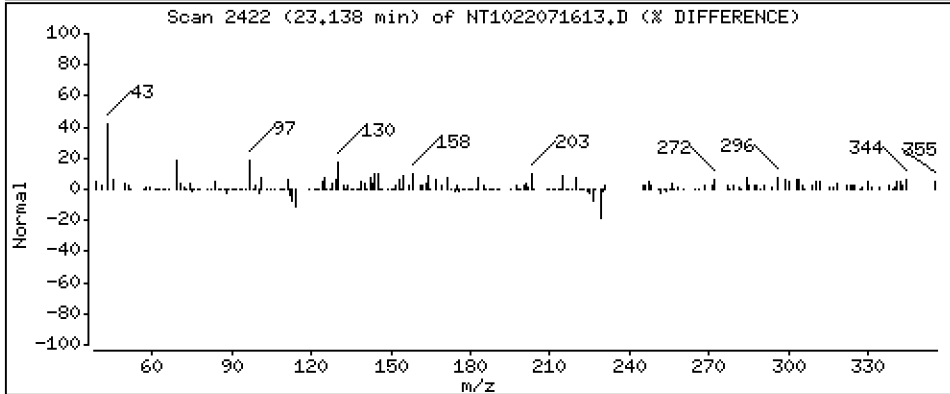
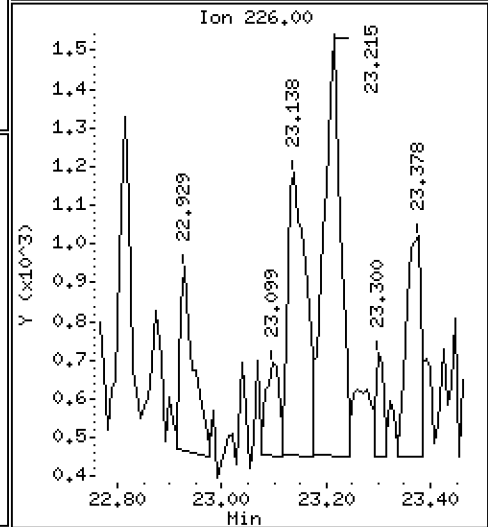
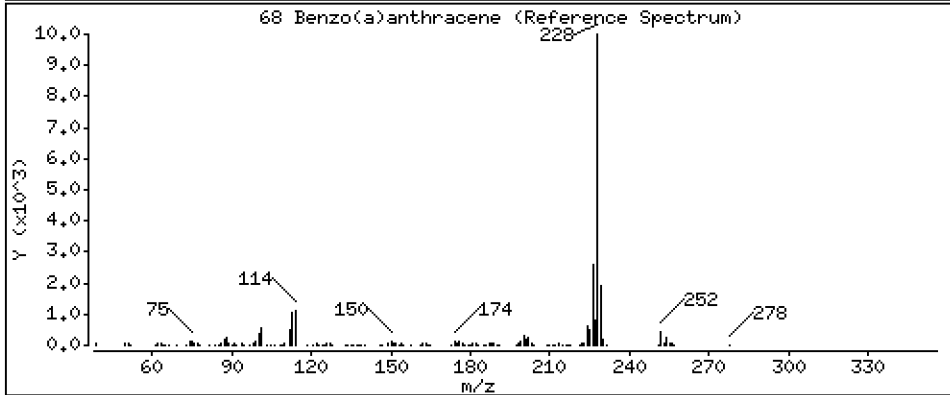
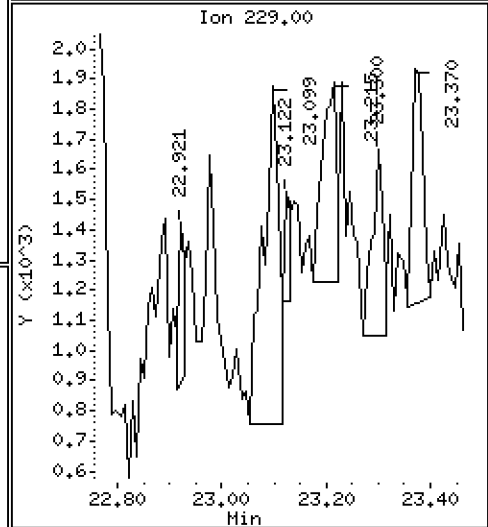
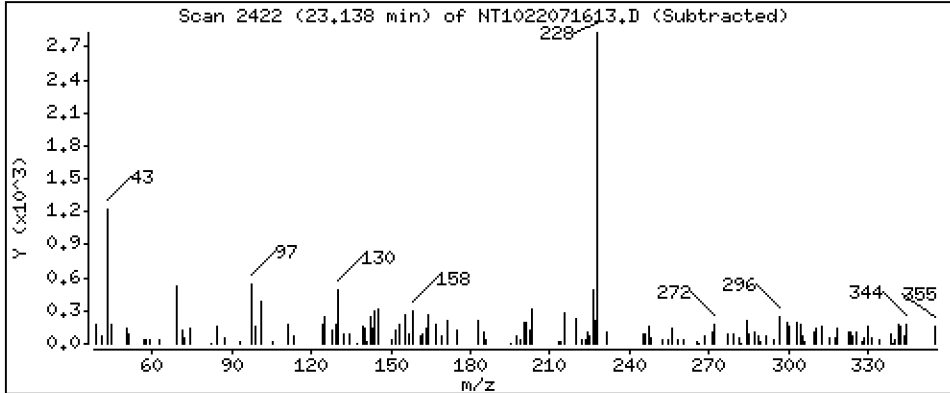
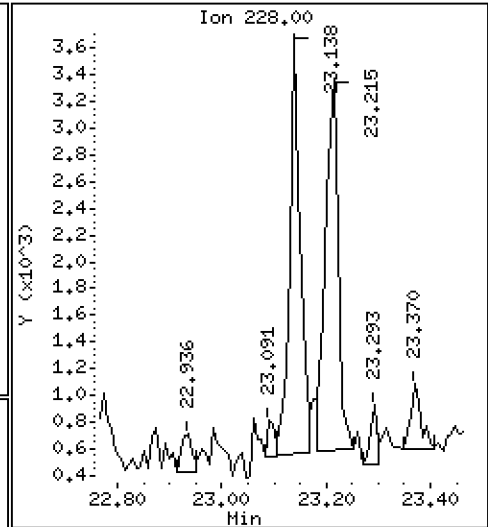
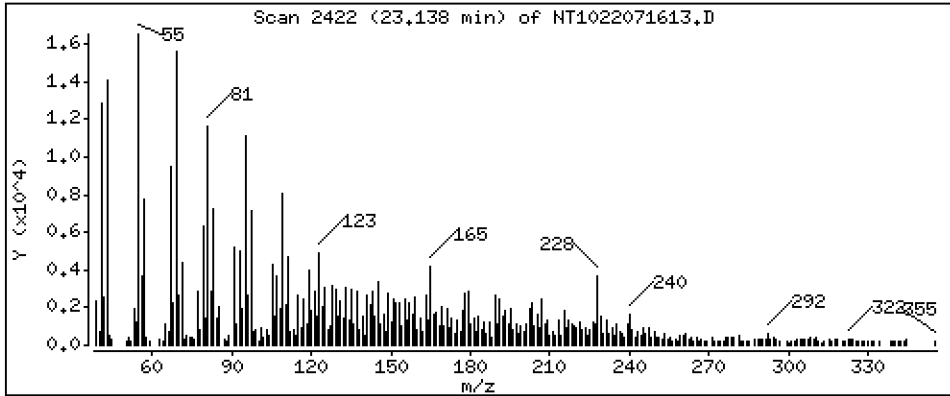
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 1,901 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15RE1,20

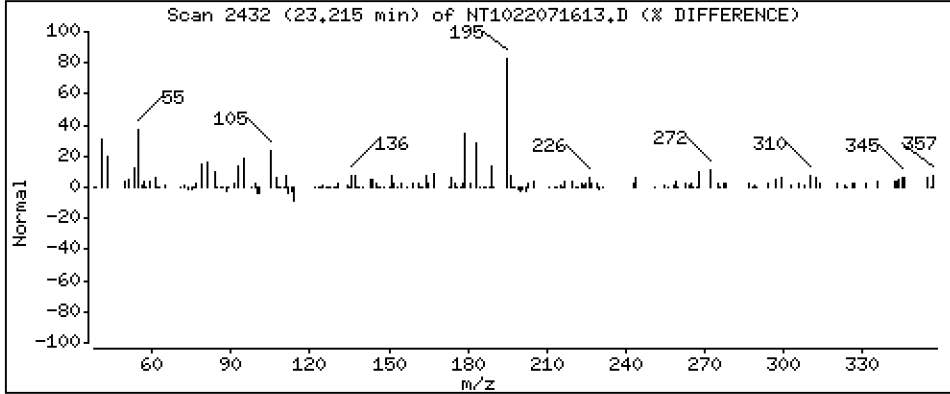
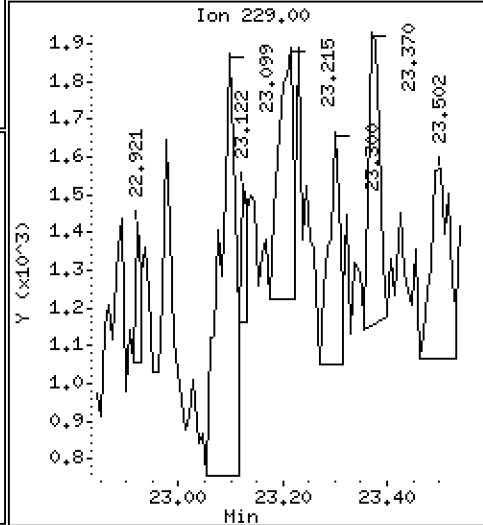
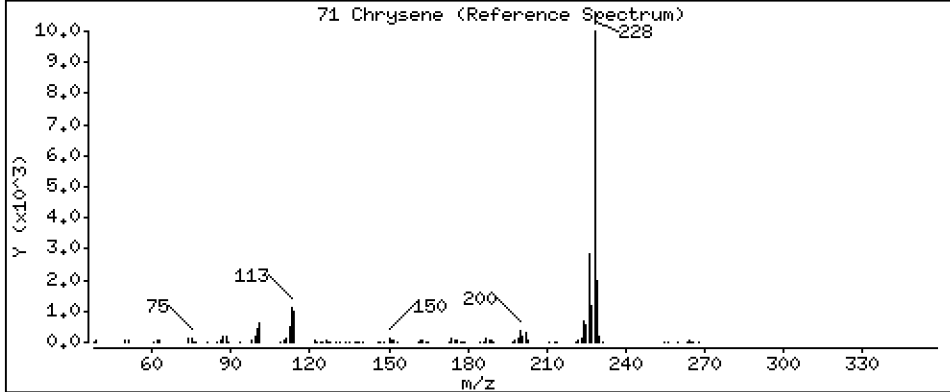
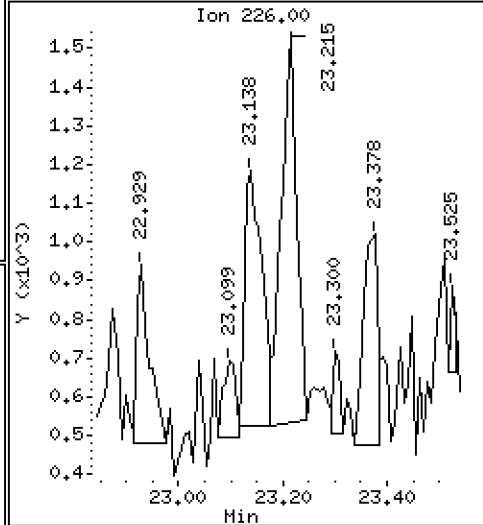
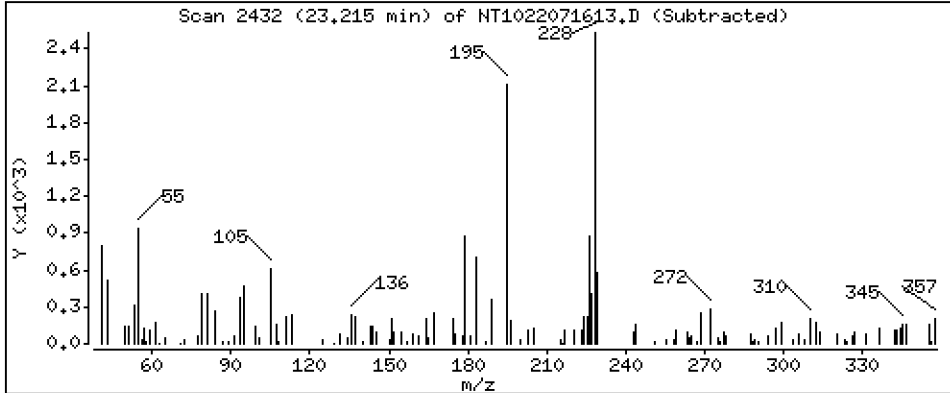
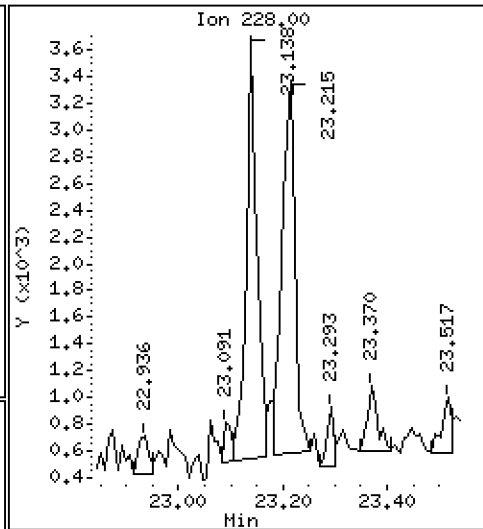
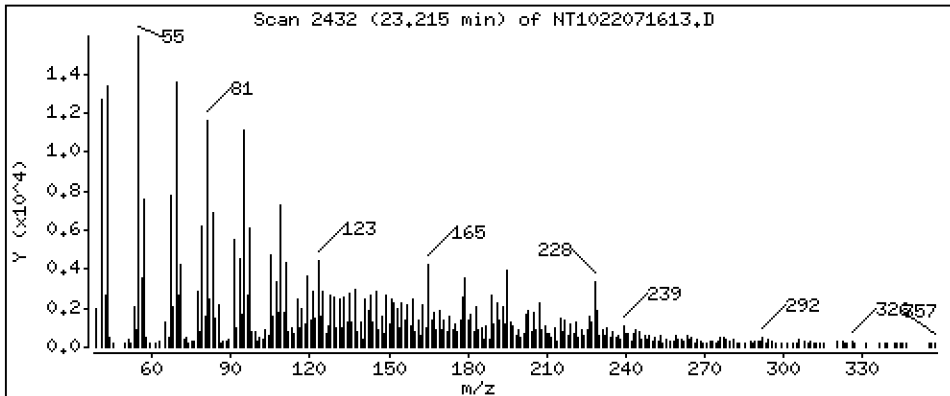
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 3,145 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15RE1,20

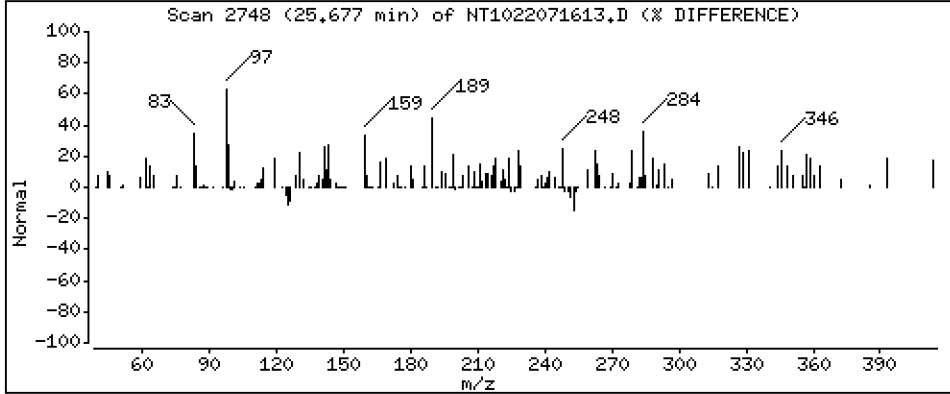
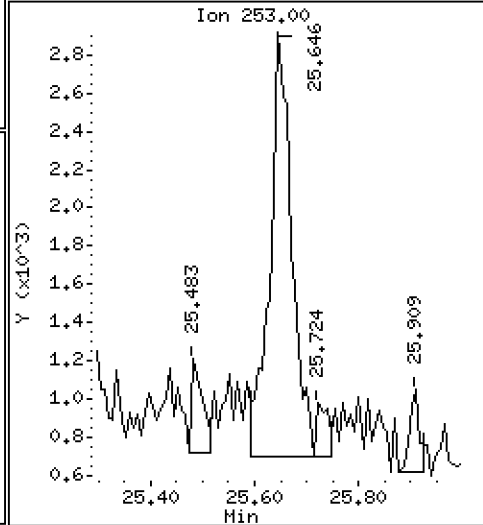
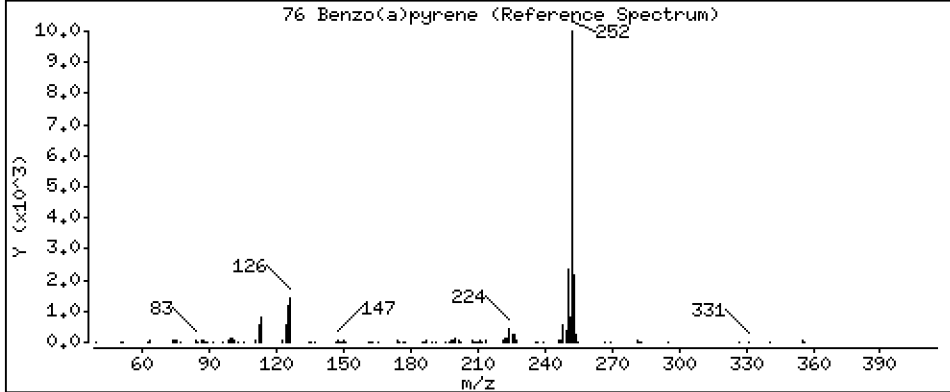
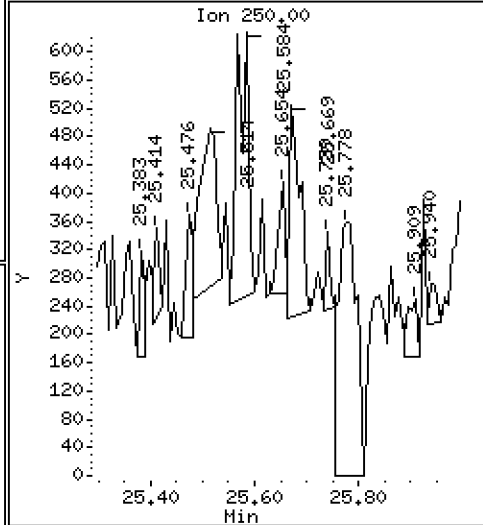
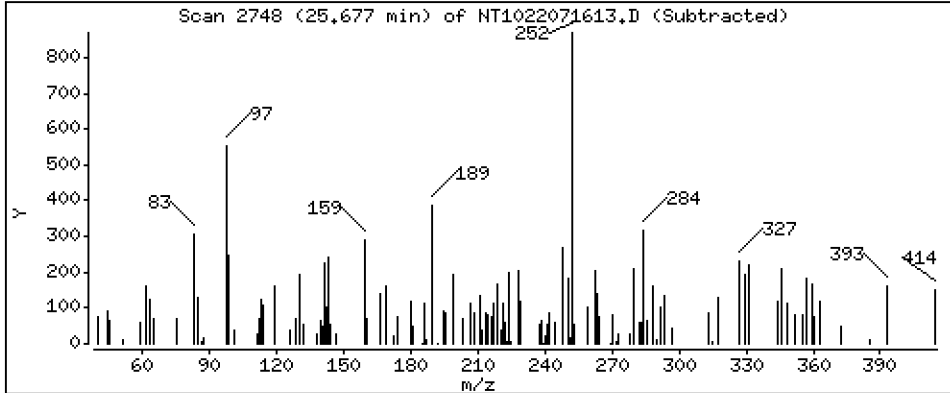
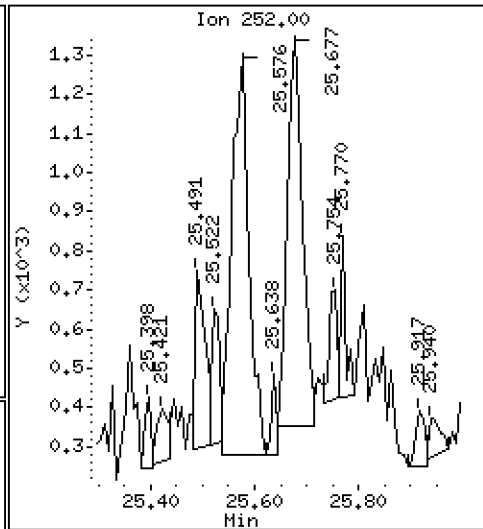
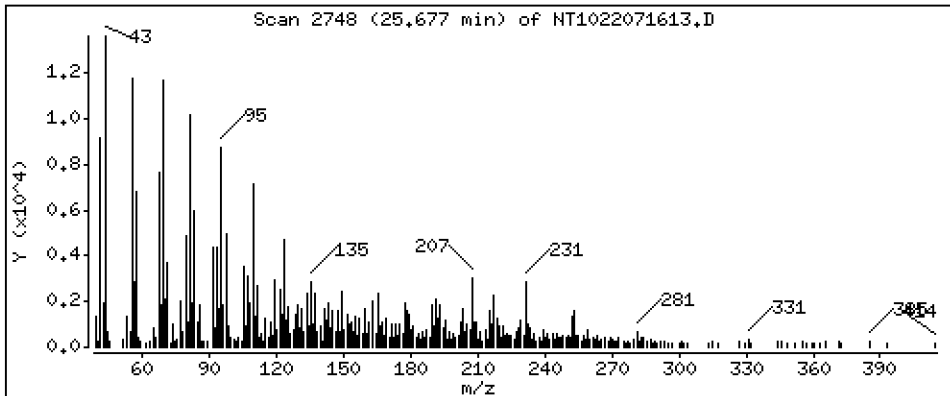
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 1,313 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15RE1,20

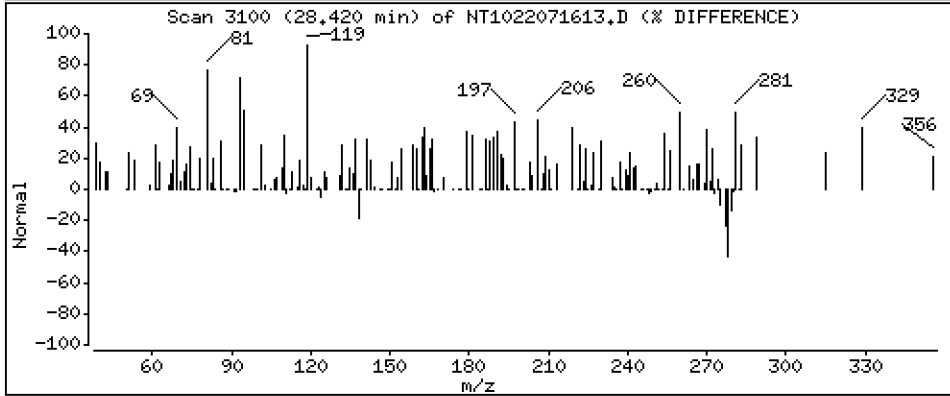
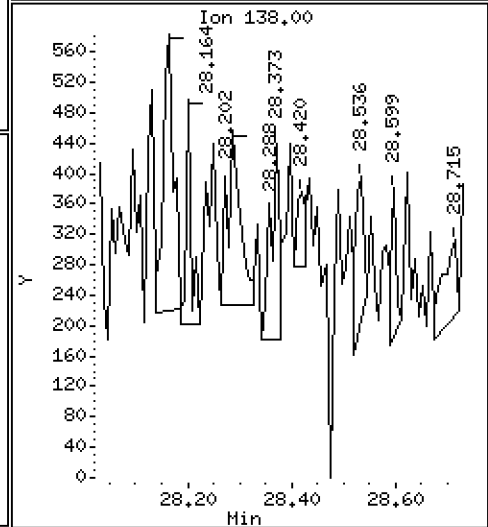
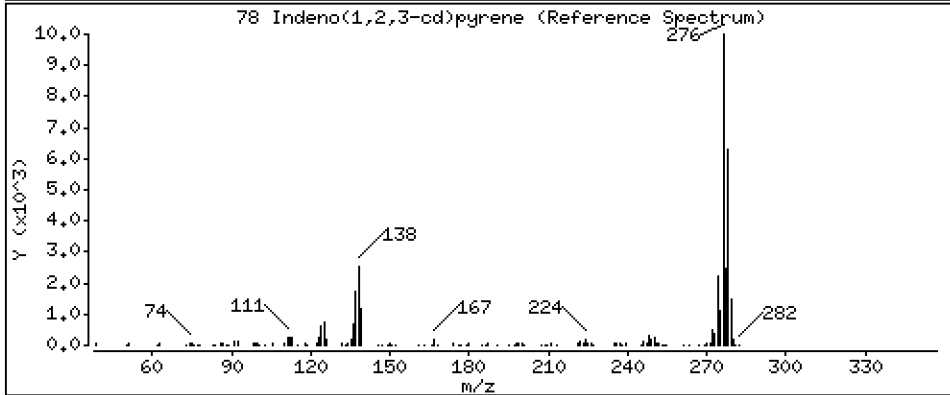
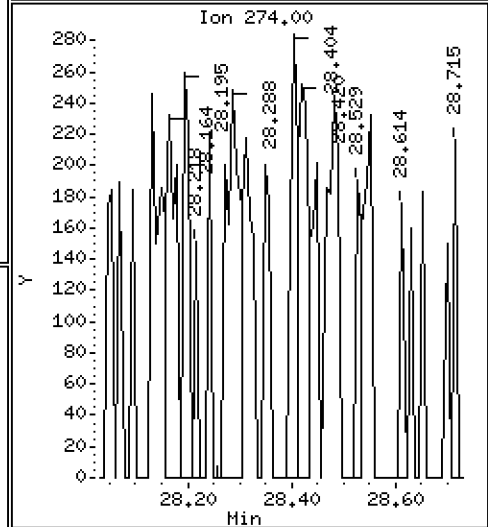
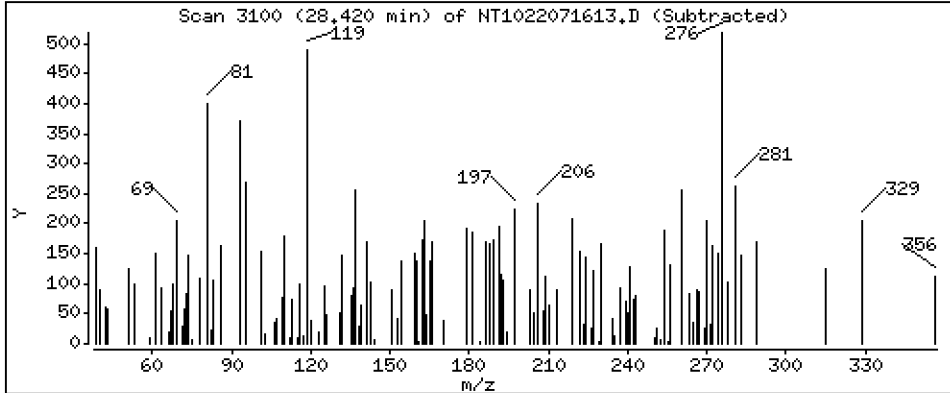
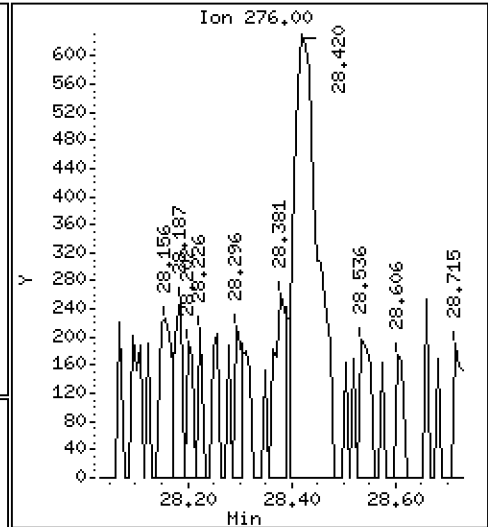
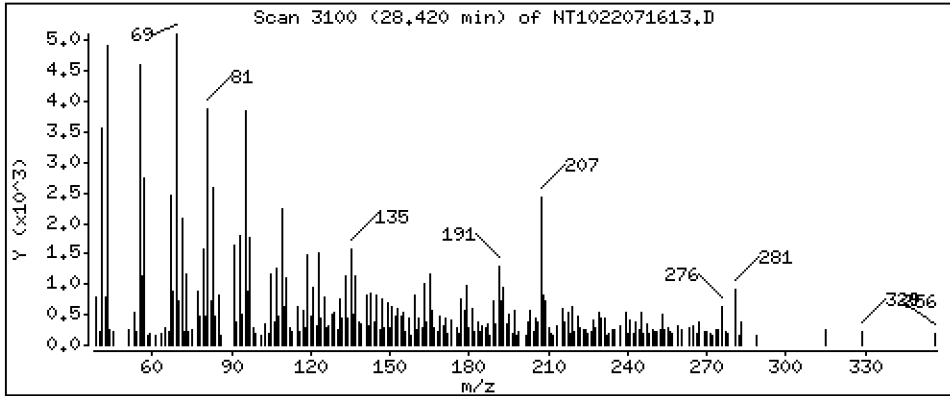
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 1,219 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 2200019-15RE1,20

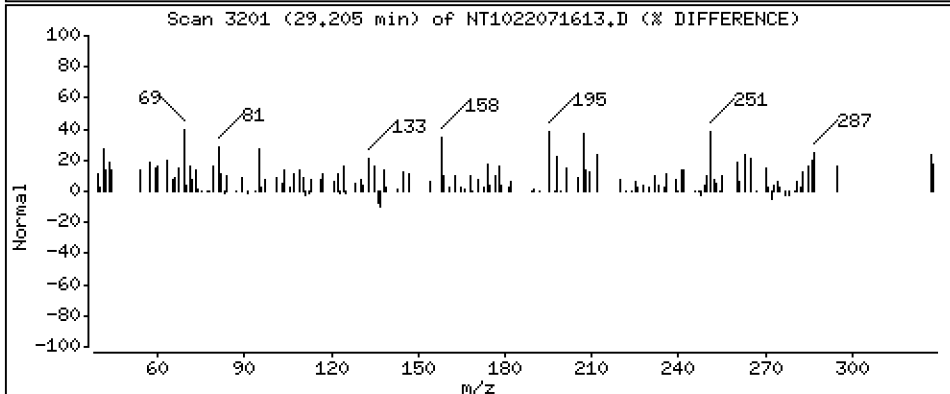
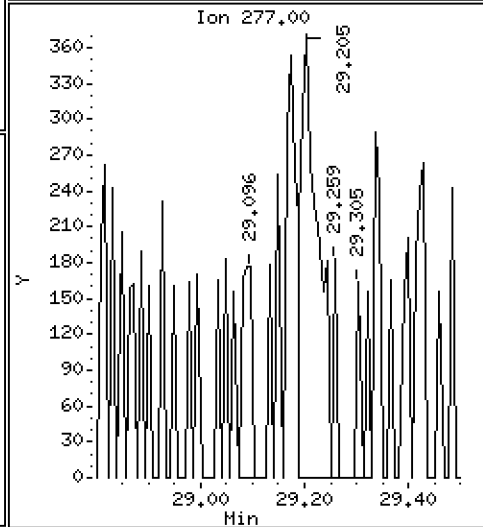
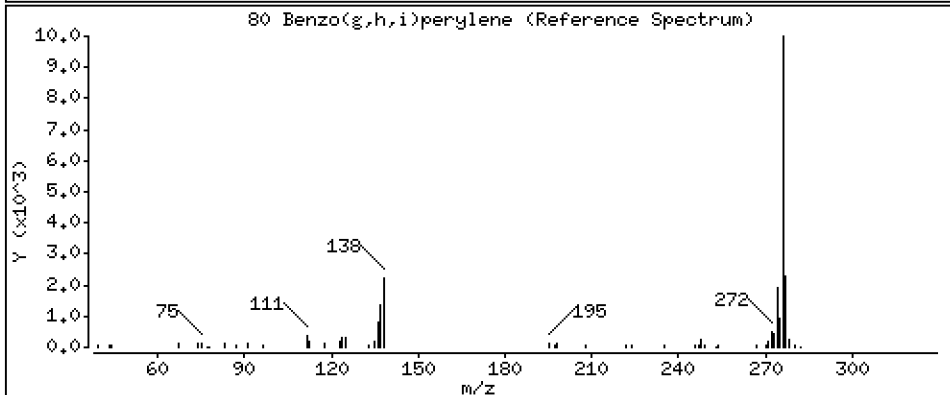
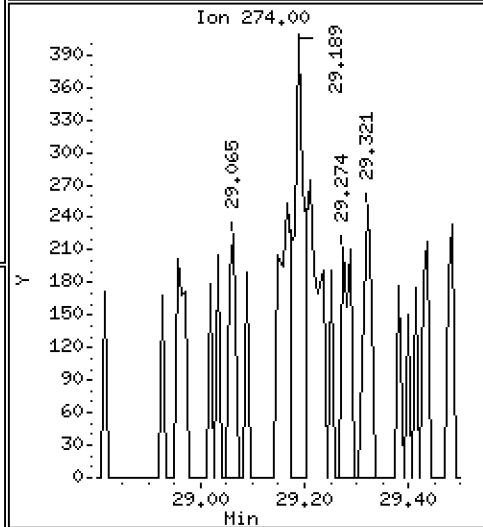
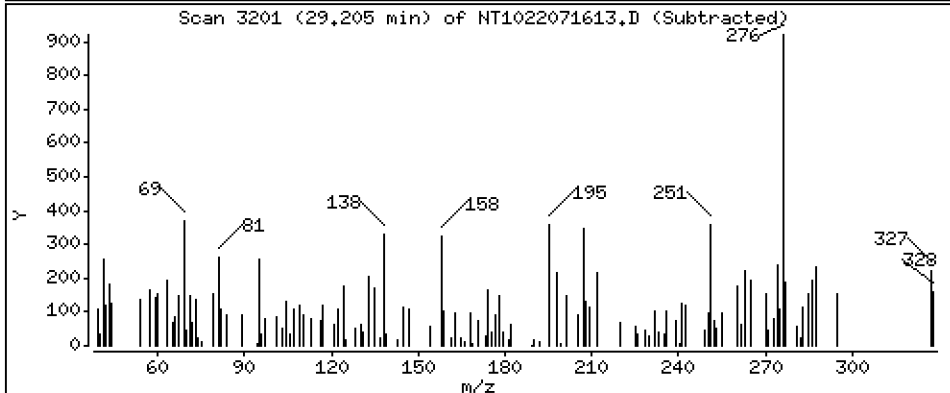
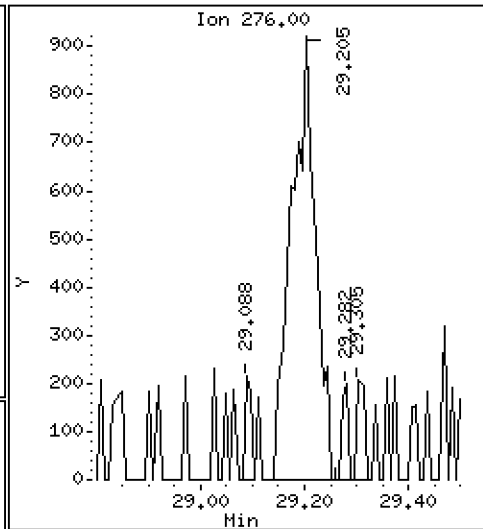
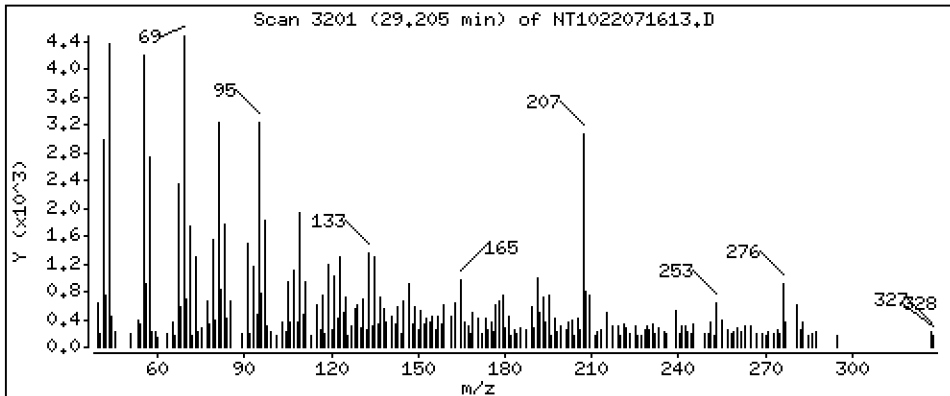
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 2,212 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15RE1,20

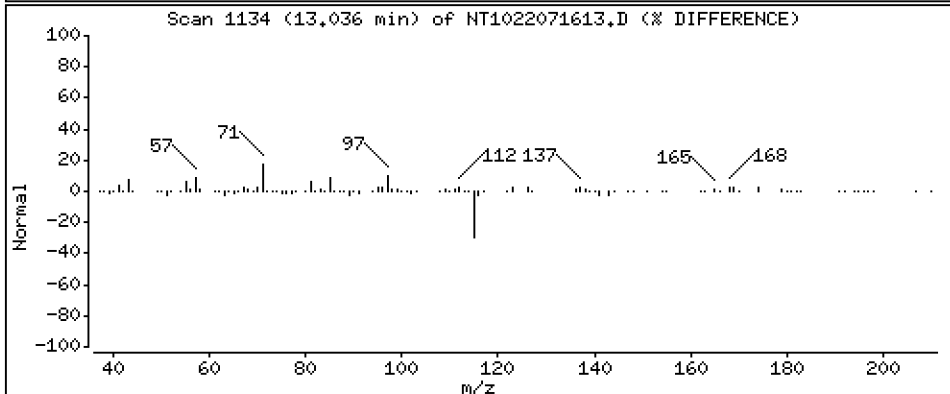
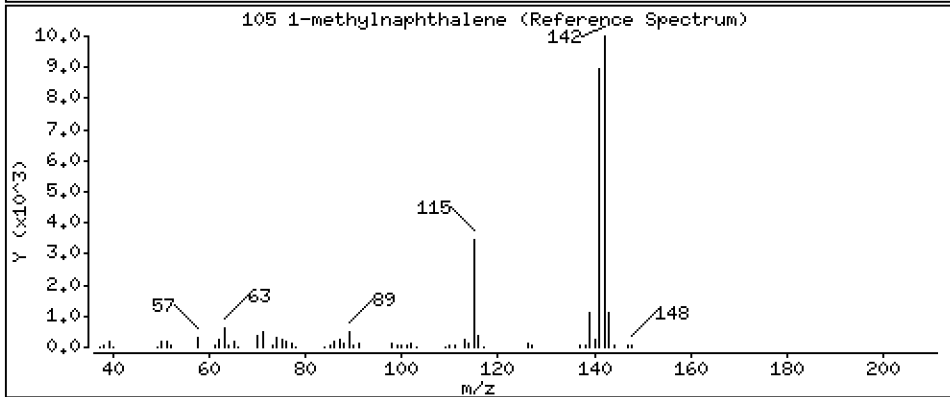
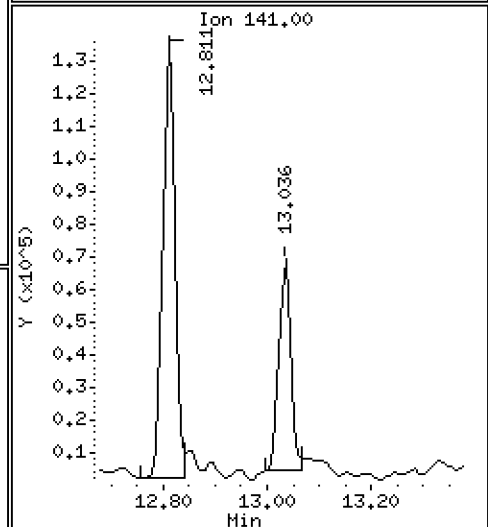
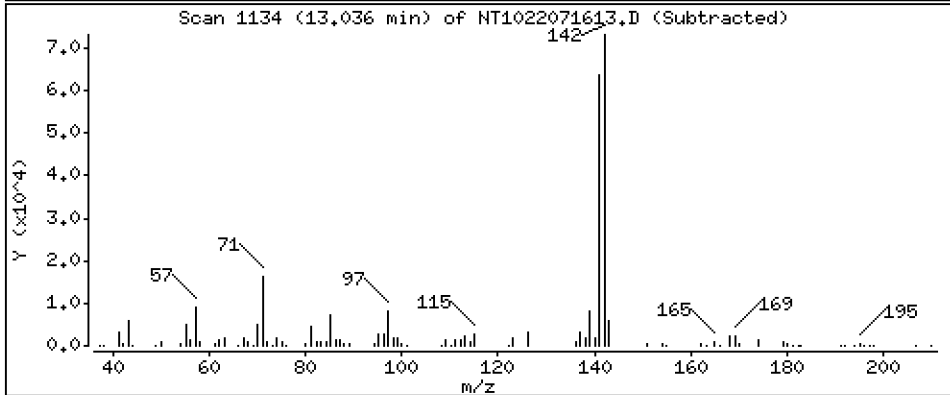
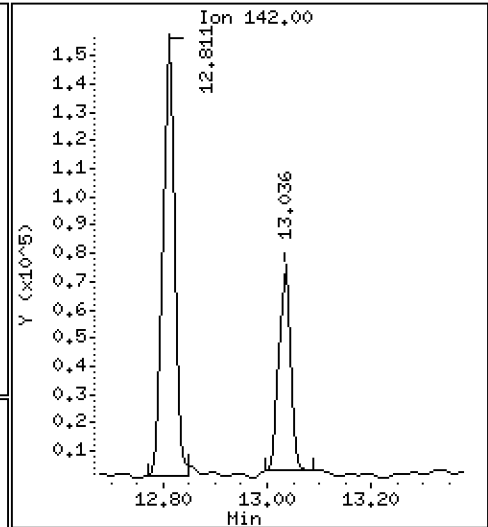
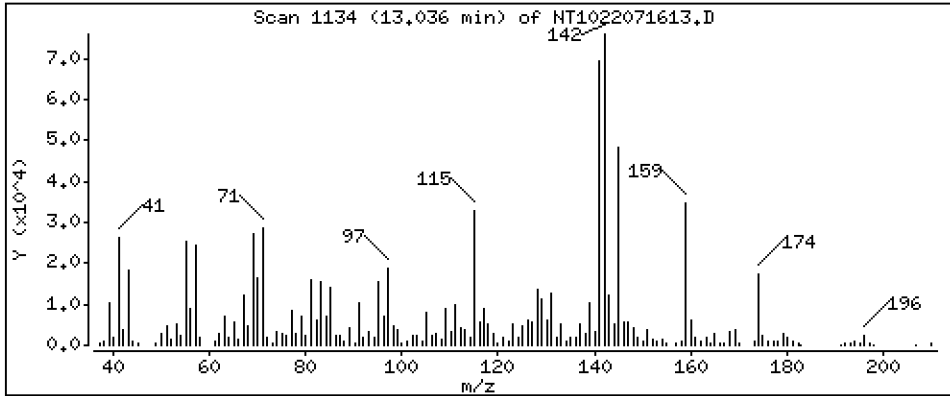
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 9,989 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15RE1,20

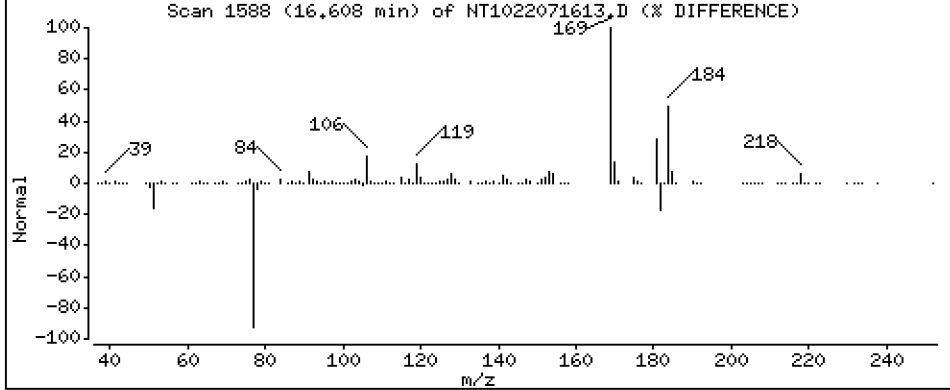
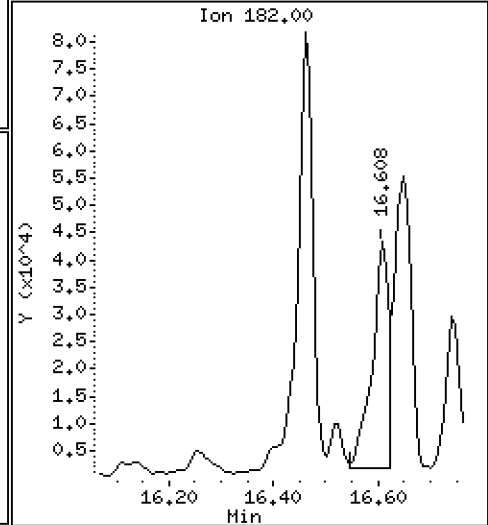
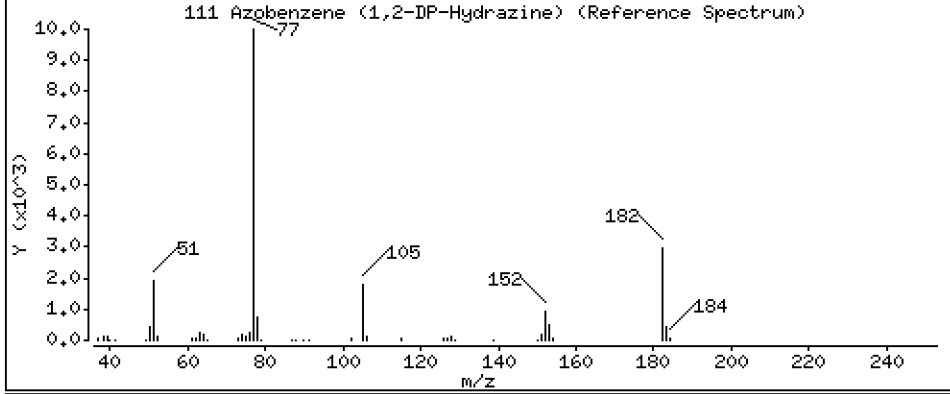
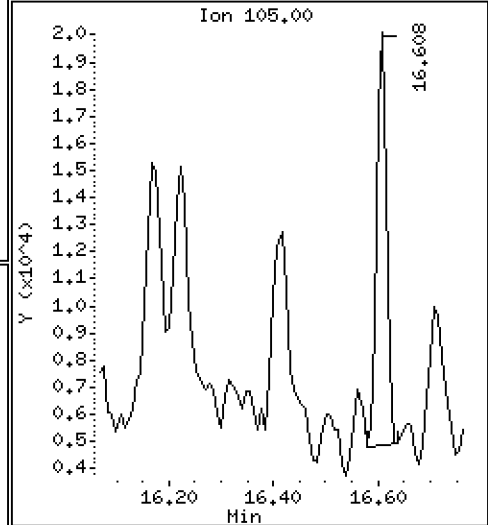
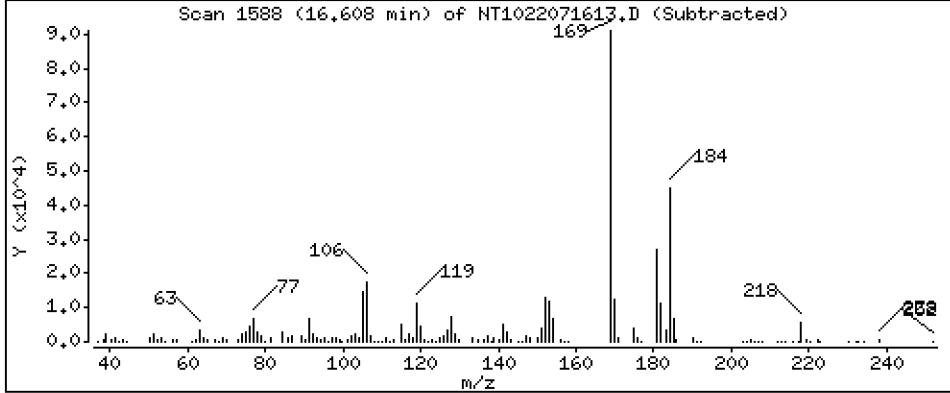
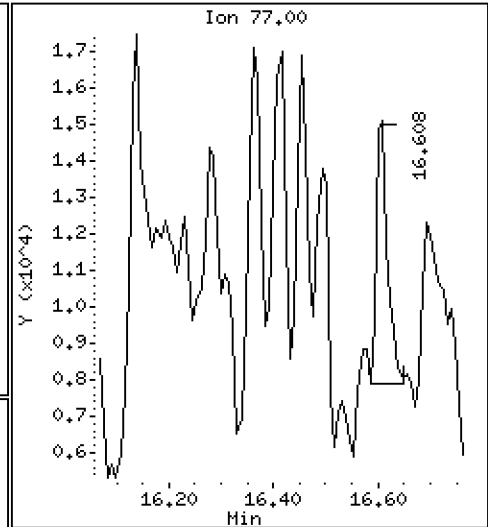
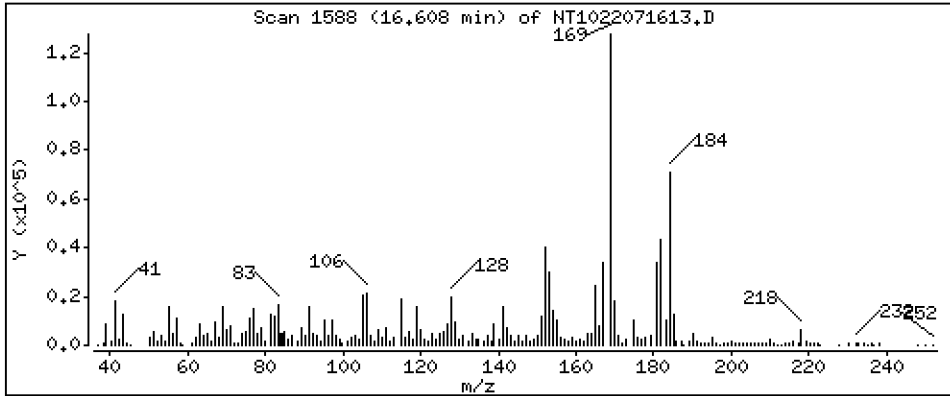
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 2,109 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15RE1,20

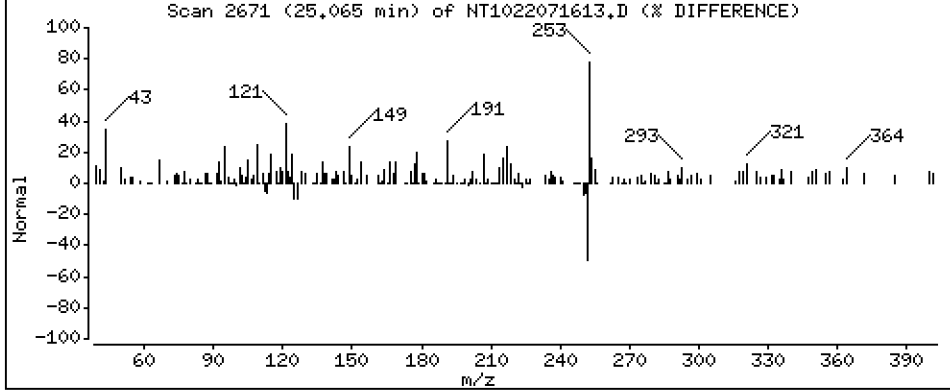
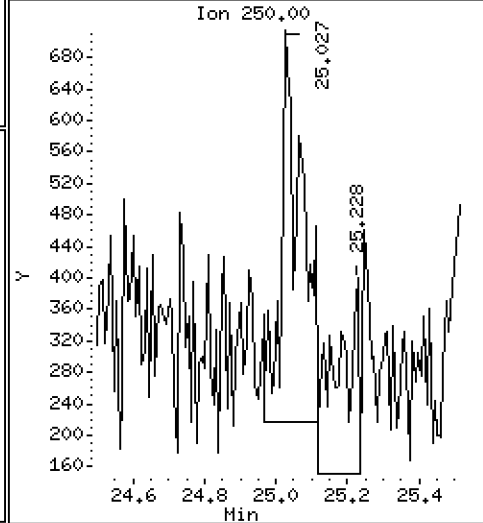
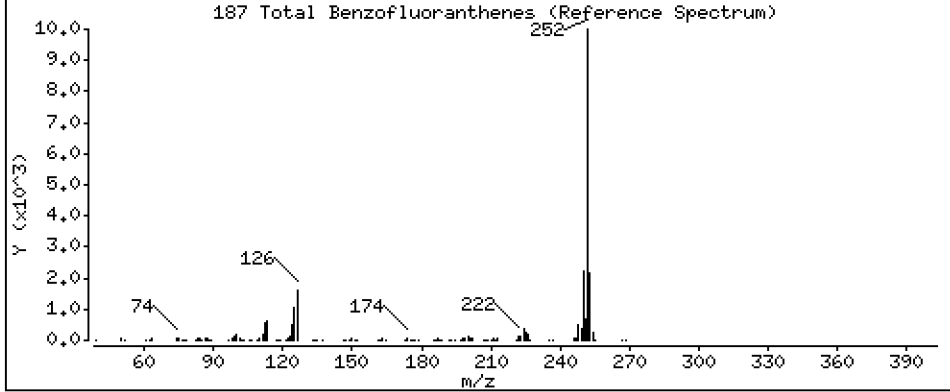
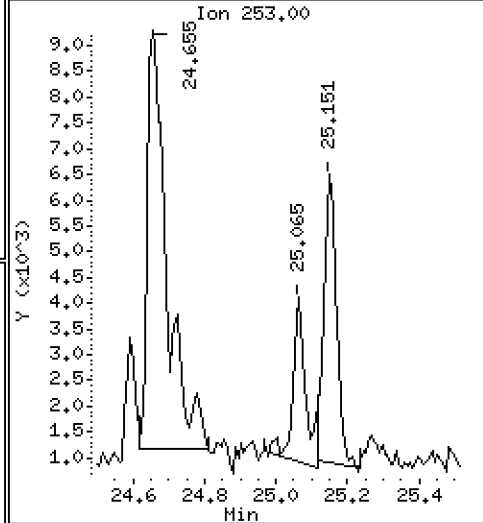
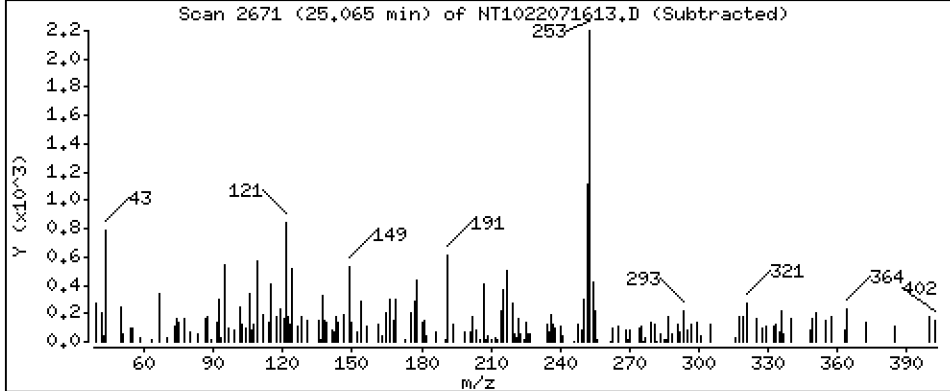
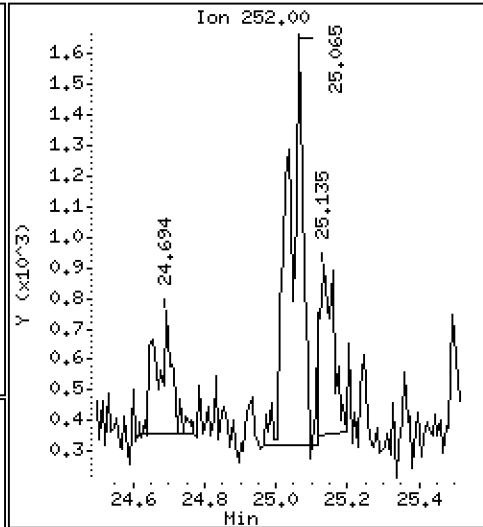
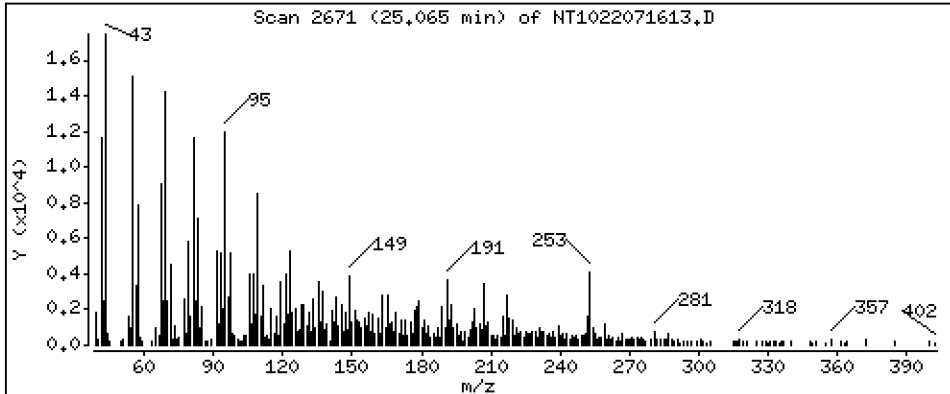
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 2,229 ug/mL



Date : 16-JUL-2022 18:21

Client ID:

Instrument: nt10.i

Sample Info: 22G0019-15RE1,20

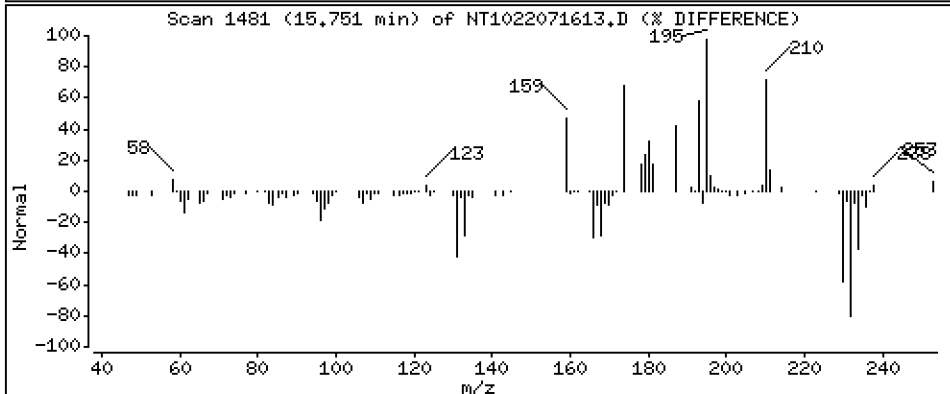
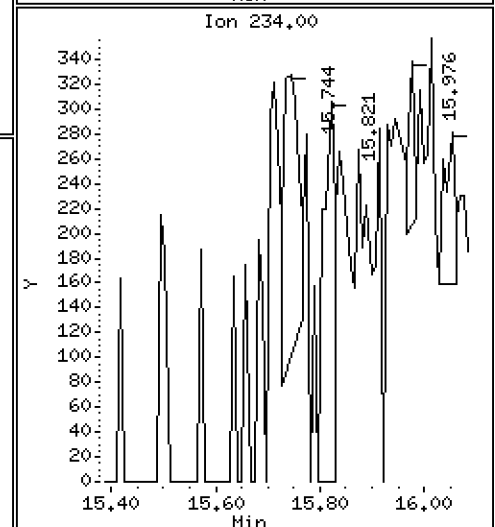
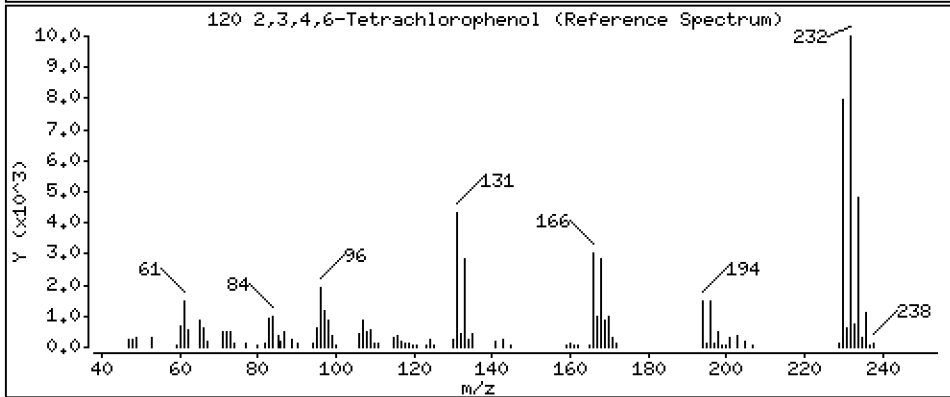
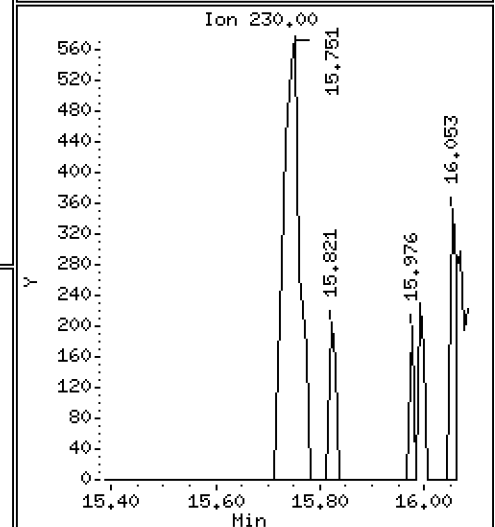
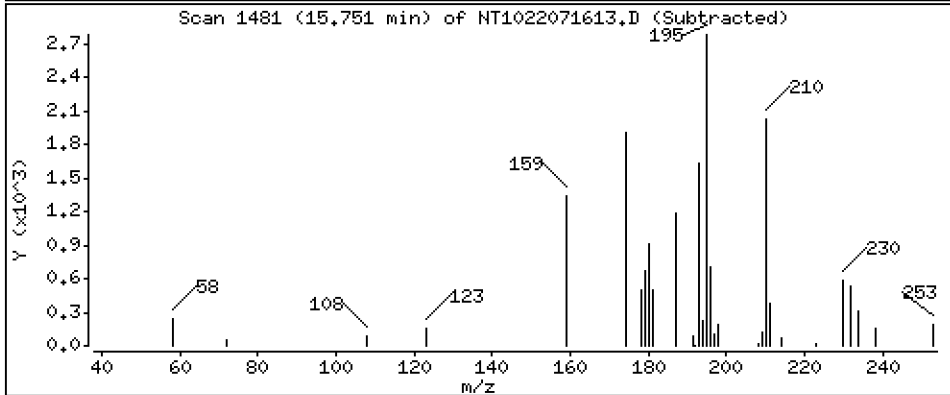
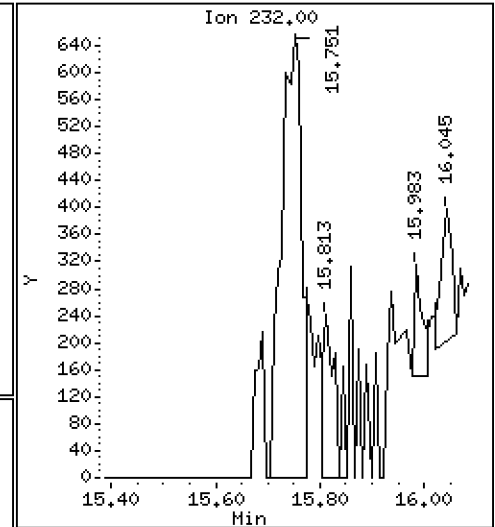
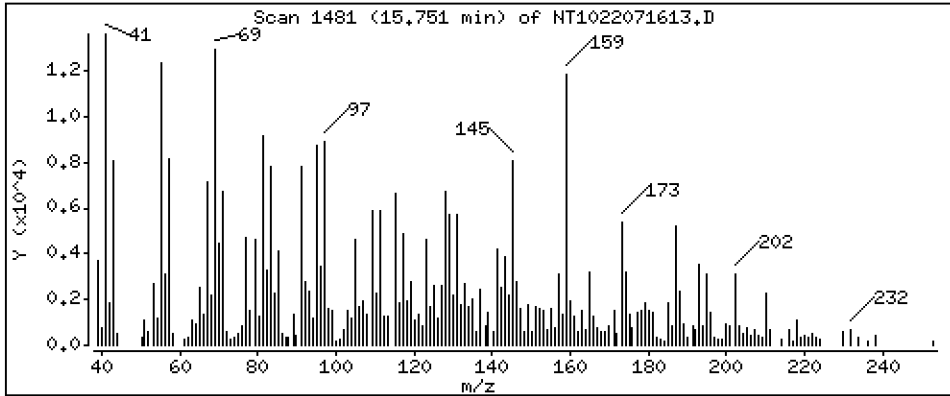
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 1,539 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220716A.b\NT1022071613.D
 Lab Smp Id: 22G0019-15RE1
 Inj Date : 16-JUL-2022 18:21
 Operator : VTS
 Smp Info : 22G0019-15RE1,20
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220716A.b\ABN.m
 Meth Date : 19-Jul-2022 07:18 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 12
 Dil Factor: 20.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.697	6.697	(0.753)	30850	0.27788	5.558
\$ 2 Phenol-d5	99		8.289	8.289	(0.932)	41150	0.24981	4.996
3 Phenol	94		Compound Not Detected.					
\$ 5 2-Chlorophenol-d4	132		8.536	8.536	(0.960)	38211	0.33779	6.756
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		8.892	8.892	(1.000)	304030	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.249	9.249	(1.040)	18709	0.26840	5.368
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		9.986	9.978	(0.878)	22945	0.24590	4.918
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.372	11.372	(1.000)	876930	4.00000	
28 Naphthalene	128		11.411	11.411	(1.003)	53749	0.23949	4.790
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		12.811	12.803	(1.126)	239656	1.07442	21.49
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.600	13.592	(0.907)	46435	0.39266	7.853
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152							
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		14.993	14.985	(1.000)	261328	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153							
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.388	15.380	(1.026)	65099	0.53897	10.78
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166							
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.647	16.639	(1.110)	840	0.07133	1.427
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.045	18.029	(1.000)	286506	4.00000	
60 Phenanthrene	178		18.091	18.083	(1.003)	22052	0.29297	5.859 (M)
61 Anthracene	178		18.192	18.176	(1.008)	62679	0.78141	15.63
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202		20.513	20.497	(0.885)	27182	0.33880	6.776
65 Pyrene	202		20.938	20.923	(0.904)	52206	0.74138	14.83
\$ 66 Terphenyl-d14	244		21.240	21.225	(0.917)	11531	0.29020	5.804
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228		23.137	23.114	(0.999)	4586	0.09505	1.901
* 69 Chrysene-d12	240		23.168	23.145	(1.000)	113863	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.215	23.191	(1.002)	5021	0.15724	3.145
72 bis(2-Ethylhexyl)phthalate	149							
* 134 Di-n-octylphthalate-d4	153		24.244	24.221	(1.000)	224177	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252							
75 Benzo(k)fluoranthene	252							
76 Benzo(a)pyrene	252		25.677	25.646	(0.995)	2104	0.06564	1.313
* 77 Perylene-d12	264		25.793	25.754	(1.000)	86475	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.419	28.381	(1.102)	2086	0.06095	1.219
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276		29.204	29.150	(1.132)	3025	0.11058	2.212
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.035	13.027	(1.146)	109451	0.49945	9.989
111 Azobenzene (1,2-DP-Hydrazine)	77		16.608	16.415	(1.108)	11006	0.10545	2.109

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.065	25.003	(0.972)	4069	0.11143	2.229
120 2,3,4,6-Tetrachlorophenol	232	15.751	15.735	(1.051)	1777	0.07697	1.539

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 16-JUL-2022
 Lab File ID: NT1022071613.D Calibration Time: 13:33
 Lab Smp Id: 22G0019-15RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220716A.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	202557	101279	405114	304030	50.10
27 Naphthalene-d8	703953	351977	1407906	876930	24.57
42 Acenaphthene-d10	510125	255063	1020250	261328	-48.77
59 Phenanthrene-d10	646092	323046	1292184	286506	-55.66 <-
69 Chrysene-d12	349304	174652	698608	113863	-67.40 <-
134 Di-n-octylphthala	599143	299572	1198286	224177	-62.58 <-
77 Perylene-d12	184274	92137	368548	86475	-53.07 <-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.89	8.39	9.39	8.89	0.00
27 Naphthalene-d8	11.37	10.87	11.87	11.37	0.00
42 Acenaphthene-d10	14.99	14.49	15.49	14.99	0.05
59 Phenanthrene-d10	18.03	17.53	18.53	18.05	0.09
69 Chrysene-d12	23.15	22.65	23.65	23.17	0.10
134 Di-n-octylphthala	24.22	23.72	24.72	24.24	0.10
77 Perylene-d12	25.75	25.25	26.25	25.79	0.15

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

REVIEW SUMMARY FOR FILE - NT1022071613.D

Lab ID: 22G0019-15RE1
nt10.i, ABN.m, 16-JUL-2022 18:21

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.108	1.095	0.0123	Azobenzene (1,2-DP-Hydrazine)

RRT check based on Ccal File: NT1022071608.D

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

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

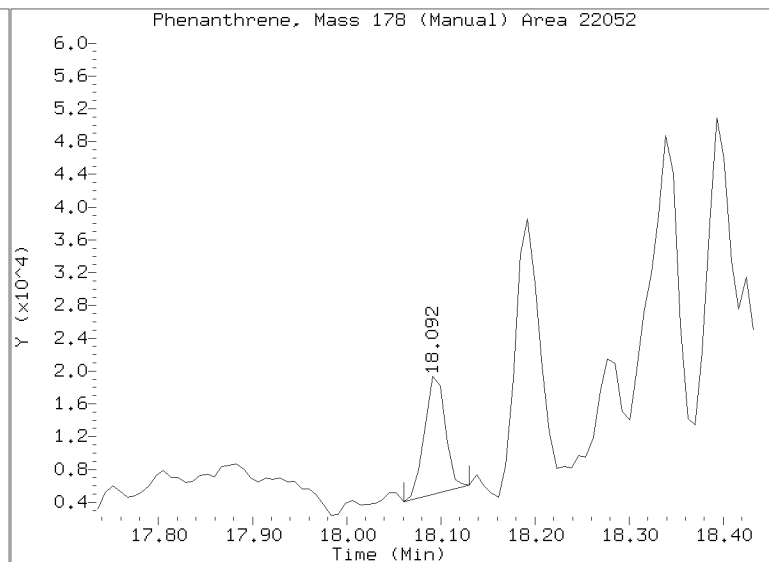
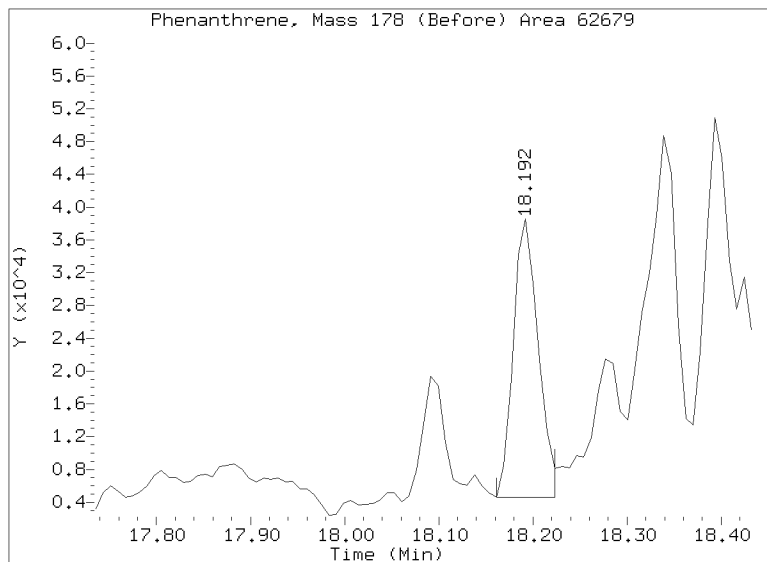
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220716A.b/NT1022071613.D

Injection Date: 16-JUL-2022 18:21

Lab ID: 22G0019-15RE1 Client ID:

Report Date: 07/19/2022 10:08





PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 22G0019
Client: GeoEngineers Project: RG Haley Site-Bellingham
Batch: BKG0069 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Z1A-1-SC_5.5-7.5	22G0019-01	NT1022071509.D	07/07/22 10:01	PAH PCP solids
Z1A-1-SC_7.5-9.5	22G0019-02	NT1022071408.D	07/07/22 10:01	PAH PCP solids
Z1A-2-SC_3.5-5.5	22G0019-03	NT1022071409.D	07/07/22 10:01	PAH PCP solids
Z1A-2-SC_3.5-5.5	22G0019-03RE1	NT1022071510.D	07/07/22 10:01	PAH PCP solids
Z1A-4-SC_3.5-5.5	22G0019-04	NT1022071511.D	07/07/22 10:01	PAH PCP solids
Z1A-4-SC_3.5-5.5	22G0019-04RE1	NT1022071612.D	07/07/22 10:01	PAH PCP solids
Z1A-4-SC_6.5-8.5	22G0019-05	NT1022071512.D	07/07/22 10:01	PAH PCP solids
Z1A-4-SC_6.5-8.5	22G0019-05RE1	NT1022071520.D	07/07/22 10:01	PAH PCP solids
Z1A-5-SC_2.5-4.5	22G0019-06	NT1022071412.D	07/07/22 10:01	PAH PCP solids
Z1A-5-SC_2.5-4.5	22G0019-06RE1	NT1022071513.D	07/07/22 10:01	PAH PCP solids
Z1A-7-SC_2.5-4.5	22G0019-07	NT1022071413.D	07/07/22 10:01	PAH PCP solids
Z1A-7-SC_2.5-4.5	22G0019-07RE1	NT1022071514.D	07/07/22 10:01	PAH PCP solids
Z1A-7-SC_4.5-6.5	22G0019-08	NT1022071414.D	07/07/22 10:01	PAH PCP solids
Z1A-7-SC_4.5-6.5	22G0019-08RE1	NT1022071515.D	07/07/22 10:01	PAH PCP solids
Z1A-7-SC_4.5-6.5	22G0019-08RE2	NT1022071610.D	07/07/22 10:01	PAH PCP solids
Z1A-10-SC_3.5-5.5	22G0019-09	NT1022071415.D	07/07/22 10:01	PAH PCP solids
Z1A-10-SC_3.5-5.5	22G0019-09RE1	NT1022071516.D	07/07/22 10:01	PAH PCP solids
Z1A-10-SC_3.5-5.5	22G0019-09RE2	NT1022071611.D	07/07/22 10:01	PAH PCP solids
Z1A-10-SC_6.5-8.5	22G0019-10	NT1022071418.D	07/07/22 10:01	PAH PCP solids
Z1A-11-SC_4.0-6.0	22G0019-11	NT1022071419.D	07/07/22 10:01	PAH PCP solids
Z1A-11-SC_4.0-6.0	22G0019-11RE1	NT1022071517.D	07/07/22 10:01	PAH PCP solids
OCM-1-MS	22G0019-13	NT1022071420.D	07/07/22 10:01	PAH PCP solids
OCM-2-MS	22G0019-15	NT1022071519.D	07/07/22 10:01	PAH PCP solids
OCM-2-MS	22G0019-15RE1	NT1022071613.D	07/07/22 10:01	PAH PCP solids
Blank	BKG0069-BLK1	NT1022071404.D	07/07/22 10:01	
LCS	BKG0069-BS1	NT1022071405.D	07/07/22 10:01	
LCS Dup	BKG0069-BSD1	NT1022071406.D	07/07/22 10:01	
Z1A-10-SC_3.5-5.5	BKG0069-MS1	NT1022071416.D	07/07/22 10:01	
Z1A-10-SC_3.5-5.5	BKG0069-MSD1	NT1022071417.D	07/07/22 10:01	



Batch: BKG0069

Prepared using: EPA 3546 (Microwave)

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

Matrix: Solid

Date Prepared: 07/07/22

Balance ID: B146462614

Set Up By: CTO 7/6/22

WO Comments

22G0019: Porewaters -Processing 6.7 L of sediment S520, Processing 10L Sediment S575. <G>MS/MSD</G>

The following standards may be missing from this batch!

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

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

Lab Number & Container	% Solids	Initial (g)		(REQ) GPC C/U (1:1) 1 03	Water Wash mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
		Target Dry: 10 (Wet)	Actual					
22G0019-01 A	23.7	(19.29)	20.00 20.03	(1:1)	1mL	1	0.5	PAH PCP solids
22G0019-02 A	22.5	(19.16)	20.00 20.03	(1:1)	1mL	1	0.5	PAH PCP solids
22G0019-03 A	26.7	(19.91)	20.00 20.00	(1:1)	1mL	1	0.5	PAH PCP solids
22G0019-04 A	46.0	(21.73)	21.74	(1:1)	1mL	1	0.5	PAH PCP solids
22G0019-05 A	55.3	(18.10)	18.18	(1:1)	1mL	1	0.5	PAH PCP solids
22G0019-06 A	27.8	(16.09)	20.00 20.07	(1:1)	1mL	1	0.5	PAH PCP solids
22G0019-07 A	48.0	(20.85)	20.87	(1:1)	1mL	1	0.5	PAH PCP solids
22G0019-08 A	57.3	(17.46)	17.49	(1:1)	1mL	1	0.5	PAH PCP solids
22G0019-09 A	78.2	(12.79)	12.79	(1:1)	1mL	1	0.5	PAH PCP solids
22G0019-10 A	70.2	(14.24)	14.28	(1:1)	1mL	1	0.5	PAH PCP solids
22G0019-11 A	78.0	(12.82)	12.85	(1:1)	1mL	1	0.5	PAH PCP solids
22G0019-13 A	70.0	(14.29)	14.32	(1:1)	1mL	1	0.5	PAH PCP solids
22G0019-15 A	56.9	(17.57)	17.59	(1:1)	1mL	1	0.5	PAH PCP solids

Batch QC

Lab Number	% Solids	Initial (g)		(REQ) GPC C/U (1:1) 1 03	Water Wash mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
		Target Dry: 10 (Wet)	Actual					
BKG0069-BLK1	100.0	(10.00)	10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BKG0069-BS1	100.0	(10.00)	10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BKG0069-BSD1	100.0	(10.00)	10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BKG0069-MS1	78.2	(12.79)	12.79	(1:1)	1mL	1	0.5	Use 22G0019-09
BKG0069-MSD1	78.2	(12.79)	12.79	(1:1)	1mL	1	0.5	Use 22G0019-09

Client ID Verified By: [Signature] Date: 07/07/22

Preparation Reviewed By: [Signature] Date: 07/13/22

Extraction Date and Time: 07/07/22 10:01



Batch: BKG0069

Prepared using: EPA 3546 (Microwave)

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

WO Comments

22G0019: Porewaters -Processing 6.7 L of sediment S520, Processing 10L Sediment S575. <G>MS/MSD</G>

Prep Steps

Reagents Used

Surrogates & Spike Standards Used

Microwave	Station/Reagent	Standard ID	Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
1 2 3 7/12/22 CT Analyst/Date	Microwave Analyst: CT Date: 7/12/22		Surrogate	A K002721 (V) Exp: 03/20/2023	50uL	CT	MB
	Anhydrous Sodium Sulfate	K005736	100/150ug/mL				
	1:1 Methylene Chloride/Acetone	K005524	Full List Spike (Freezer)	7 K004967 (V) Exp: 08/03/2022	50uL	CT	MB
	Methylene Chloride	K004645	100ug/mL	K004448			
	Pre-Deactivated Glass Wool	K005222	Base Spike	56 K004967 (V) Exp: 08/03/2022	50uL	CT	MB
	Pre GPC KD		200ug/mL	K003759			
2 4 6 7/18/22 MB Analyst/Date	Analyst: MB Date: 7/18/22		Acid Spike	38 K004967 (V) Exp: 08/03/2022	50uL	CT	MB
	Pre-Deactivated Glass Wool	NA	100/200ug/mL	K003764			
	Anhydrous Sodium Sulfate	NA	(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.				
	Methylene Chloride	K002879	If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).				
	Hexane	K002872					
	GPC Filter Prep						
	Analyst: BF Date: 7/18/22						
	Methylene Chloride	K005942					
	GPC						
	Analyst: MB Date: 7/12/22						
	Methylene Chloride	K004645					
	GPC Calibration File	K00132					
	Post GPC KD						
	Analyst: MB Date: 7/12/22						
	Methylene Chloride	K005942					
	Vialing						
	Analyst: MB Date: 7/13/22						
	Methylene Chloride	K005942					



WO Comments

22G0019: Porewaters -Processing 6.7 L of sediment \$520. Processing 10L Sediment \$575. <G>MS/MSD</G>

Prep Instructions

SPECIAL INSTRUCTIONS:

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

A. Need Total Solids Y N

B. Archive/Freeze Y N

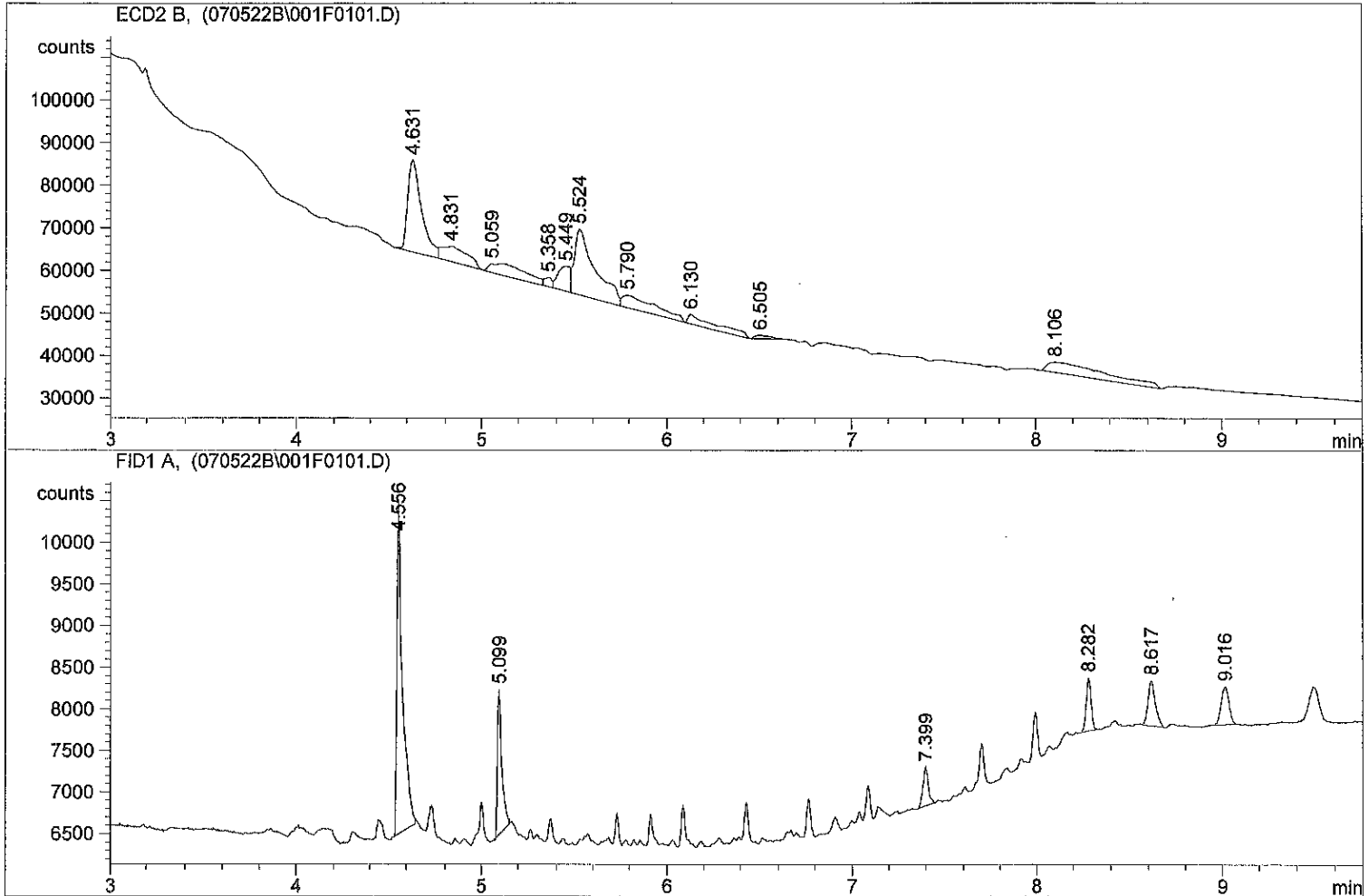


Extraction Parameter: SNOA Extraction Batch BK60069

Total Solids Batch: BR60055 Work Order(s): 2260019

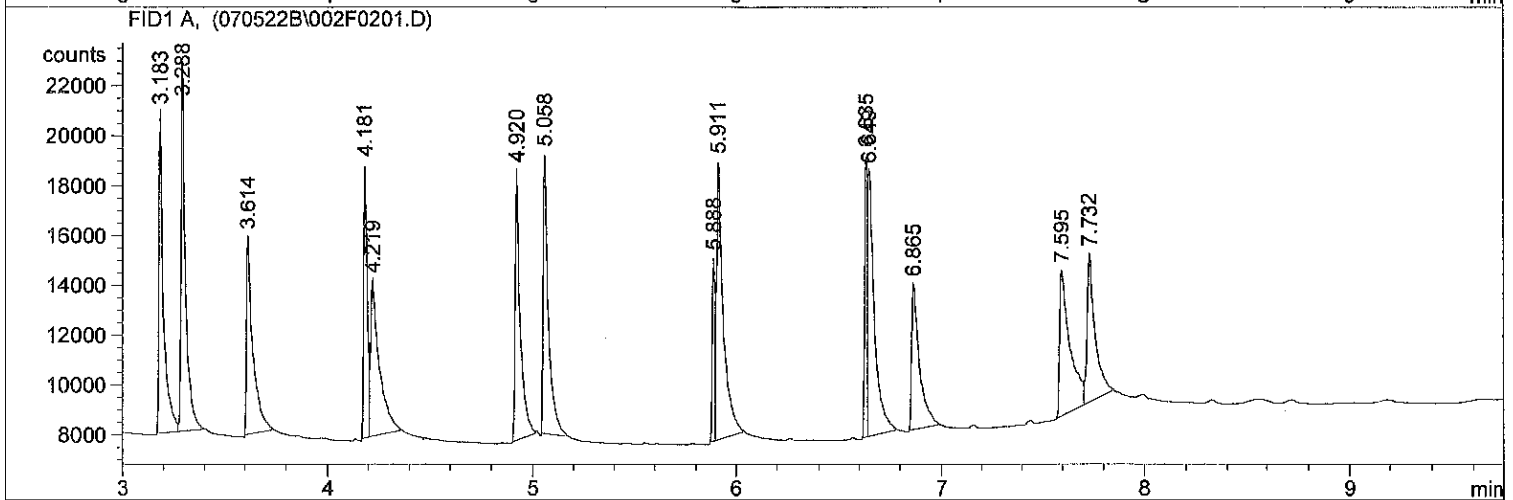
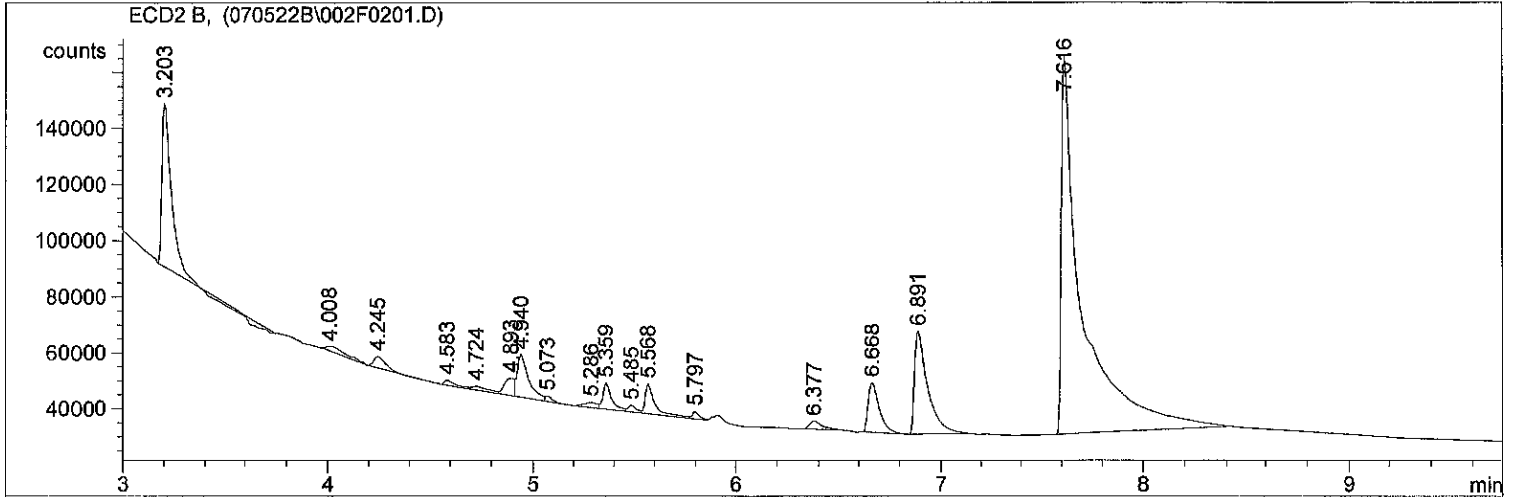
Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input checked="" type="checkbox"/> Standing Water Homogenized (Shared samples)= <u>019-13</u>	<u>MEB 7/5/22</u>
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input checked="" type="checkbox"/> Rocks (%+size)? <u>019-13 + 15 throughout samples</u>	<u>MEB 7/5/22</u>
<input checked="" type="checkbox"/> Organics (Leaves/sticks/grass)= <u>019-1, 2, 3, 4, 5, 6, 7, 8, 11, 15</u>	<u>MEB 7/5/22</u>
<input checked="" type="checkbox"/> Oily, obvious fuel/sulfur odors= <u>019-07 (sulfur), 019-4, 9, 13 (fuel)</u>	<u>MEB 7/5/22</u>
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input checked="" type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<u>13 - filtered twice</u>	
<input checked="" type="checkbox"/> Share Samples Y / (N)	<u>CTO 7/5/22</u>
<input checked="" type="checkbox"/> Multiple Jars (Y) N <u>0-11 x2, 13, 15 x2</u>	<u>UP 9/5/22</u>
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	

=====
Injection Date : 7/5/2022 4:11:34 PM Seq. Line : 1
Sample Name : DCM RINSE Location : Vial 1
Acq. Operator : CTO/MRB Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\070522B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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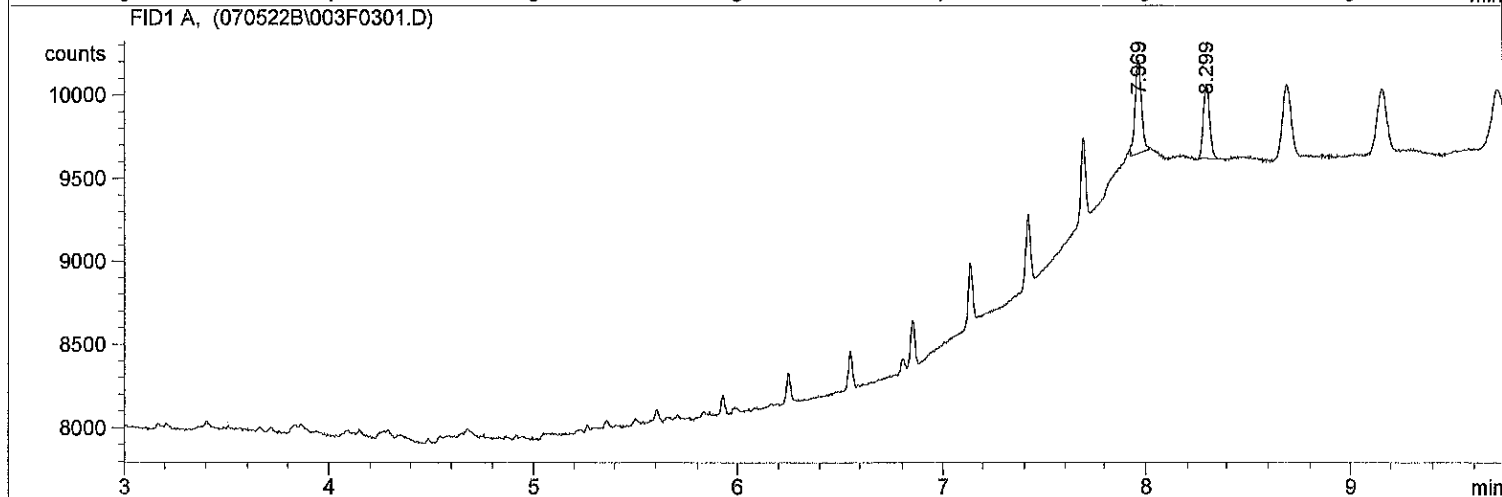
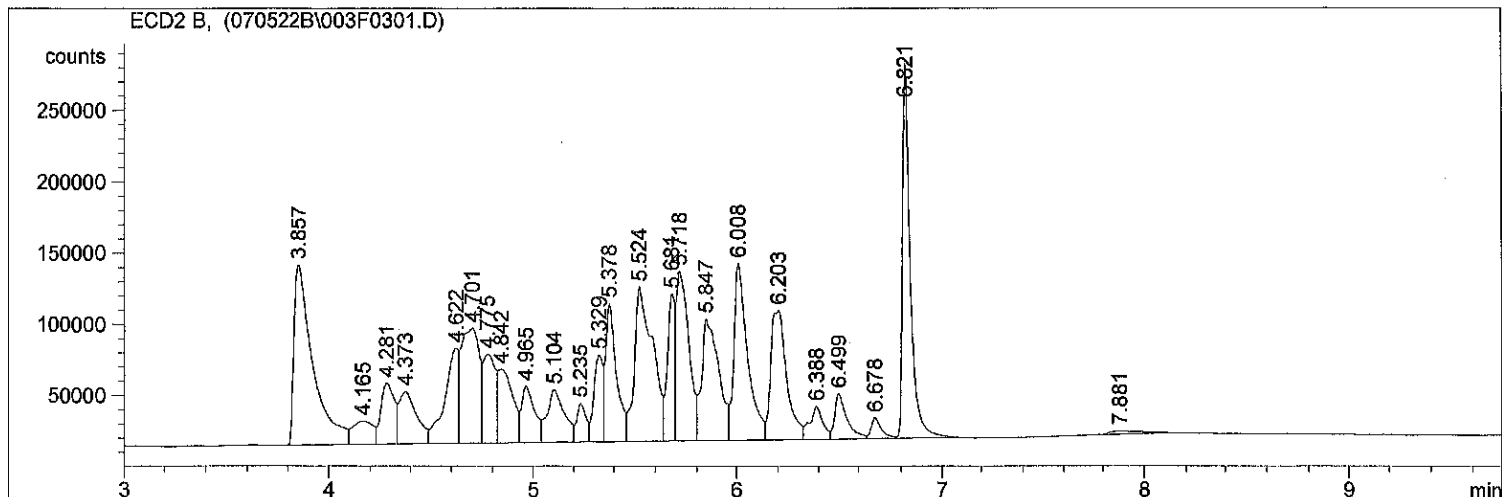
*** End of Report ***

Injection Date : 7/5/2022 4:25:23 PM Seq. Line : 2
Sample Name : PNA STD 10PPM Location : Vial 2
Acq. Operator : CTO/MRB Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\070522B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

=====
Injection Date : 7/5/2022 4:39:57 PM Seq. Line : 3
Sample Name : AR1660 1PPM Location : Vial 3
Acq. Operator : CTO/MRB Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\070522B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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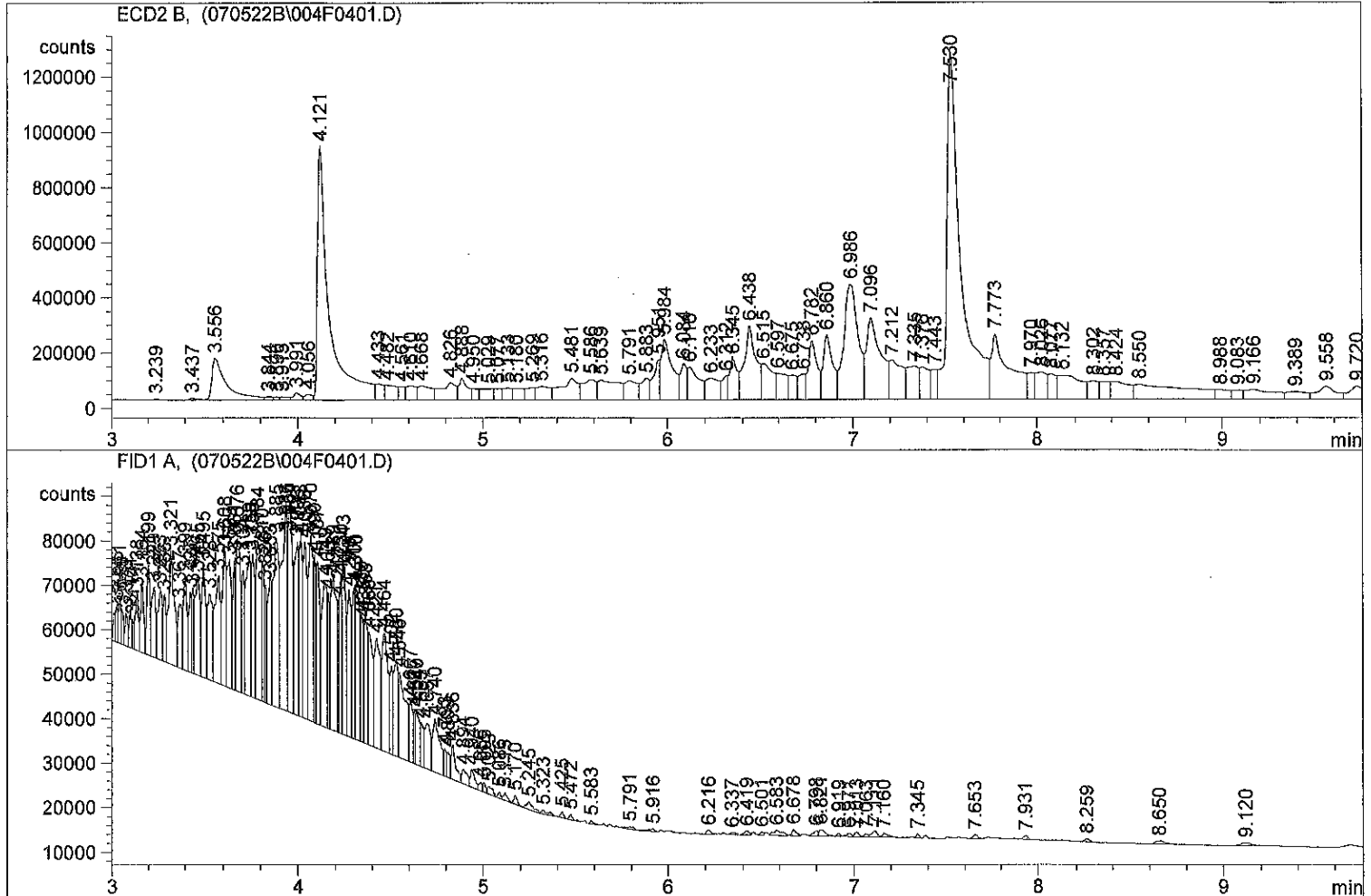
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=====
Injection Date   : 7/5/2022 4:54:26 PM           Seq. Line   :    4
Sample Name     : 22G0019 01                     Location    : Vial 4
Acq. Operator  : CTO/MRB                          Inj         :    1
                                                    Inj Volume  : 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\070522B.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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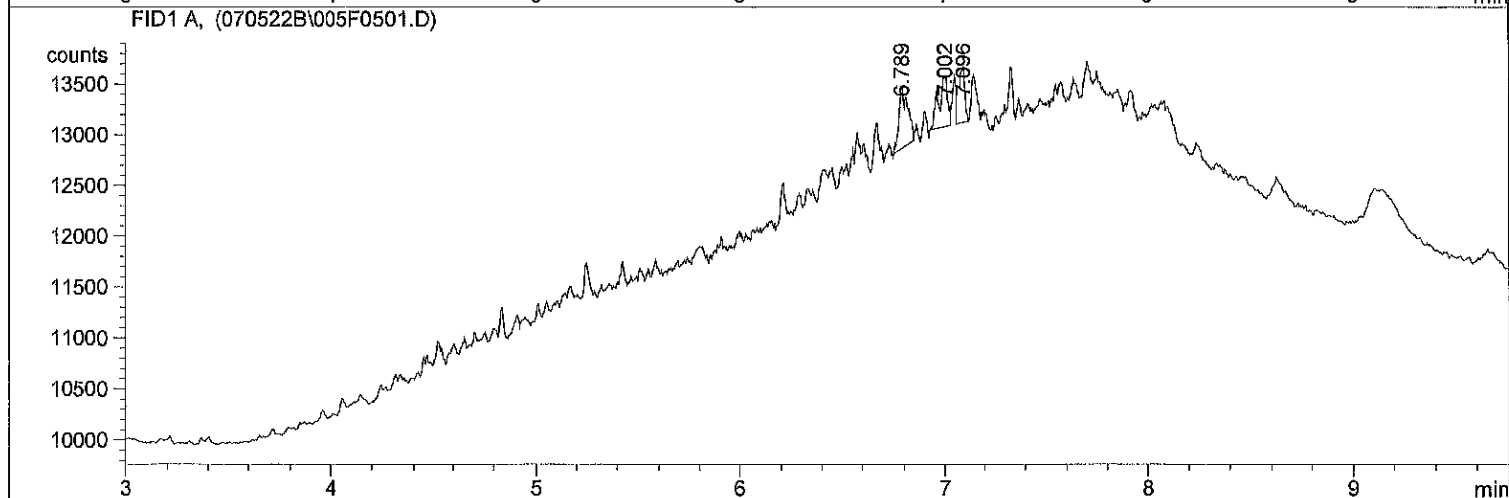
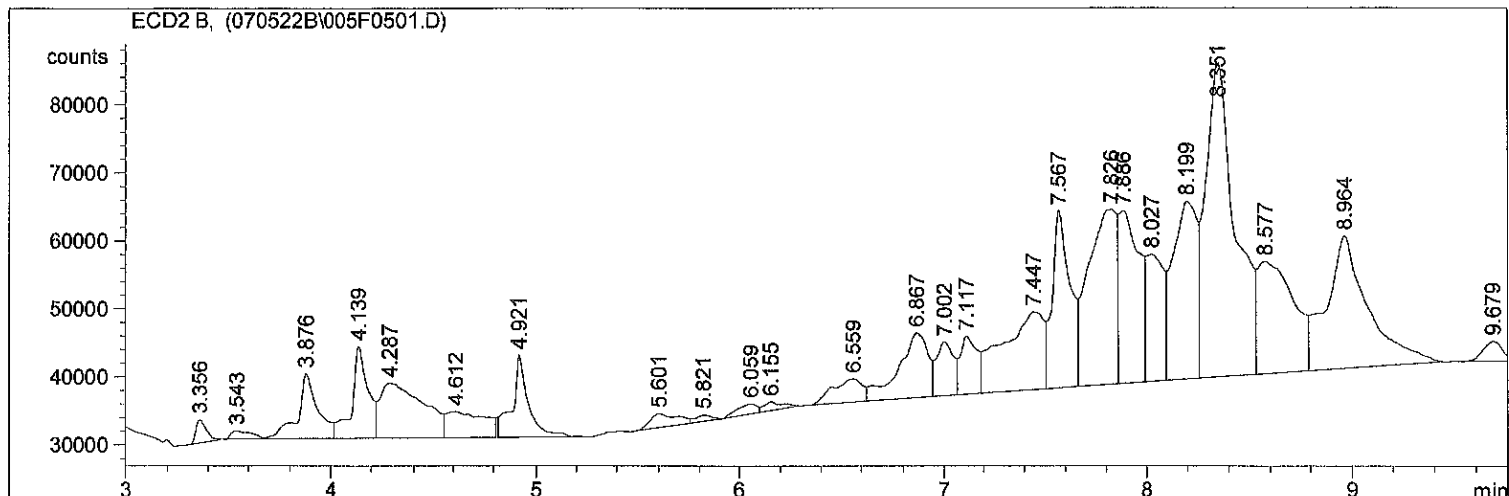
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*** End of Report ***

=====
Injection Date : 7/5/2022 5:09:04 PM Seq. Line : 5
Sample Name : 22G0019 02 Location : Vial 5
Acq. Operator : CTO/MRB Inj : 1
 Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\070522B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
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SCREEN METHOD
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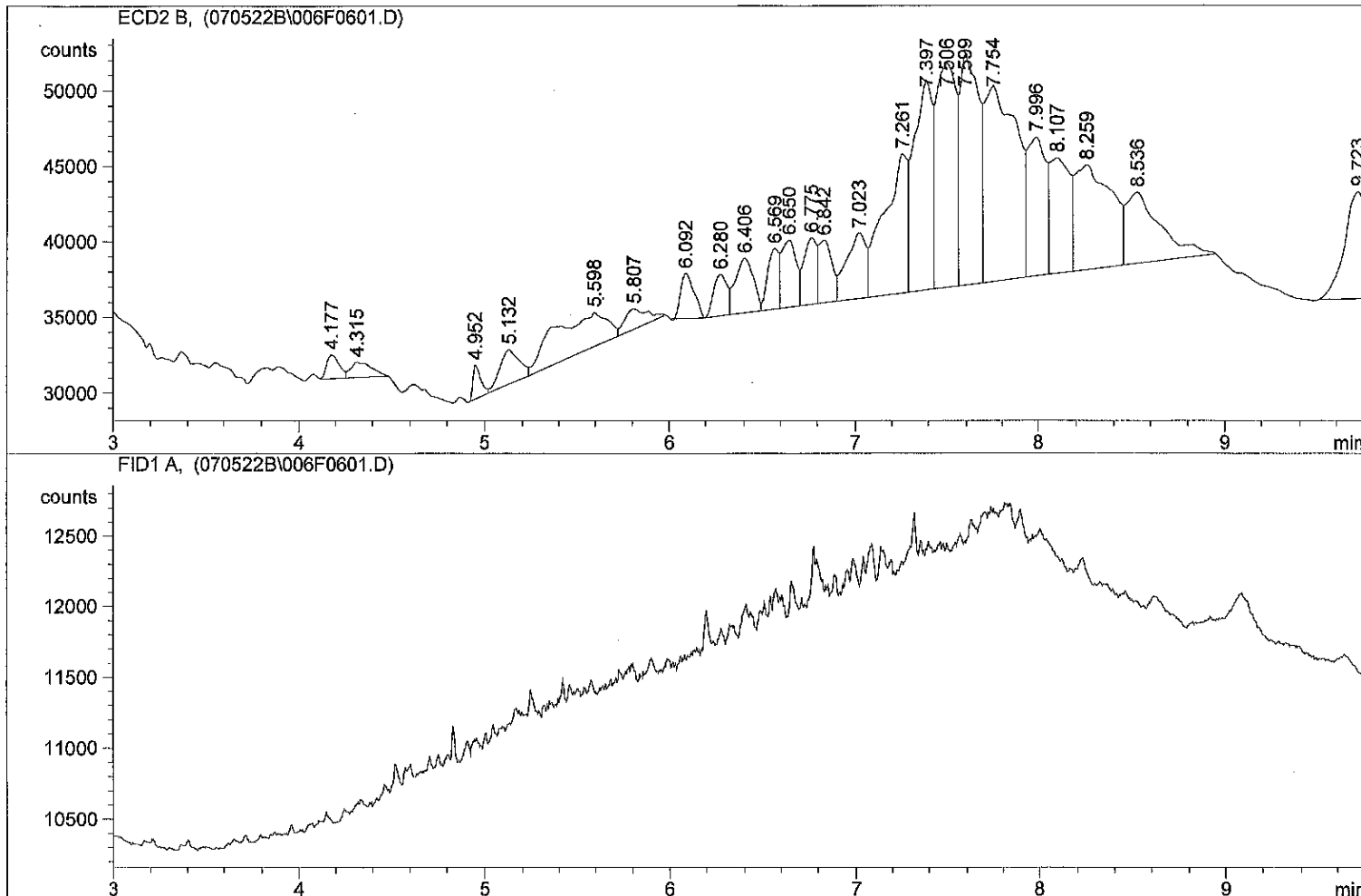
*** End of Report ***

=====

Injection Date : 7/5/2022 5:23:40 PM Seq. Line : 6
Sample Name : 22G0019 03 Location : Vial 6
Acq. Operator : CTO/MRB Inj : 1
 Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\070522B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

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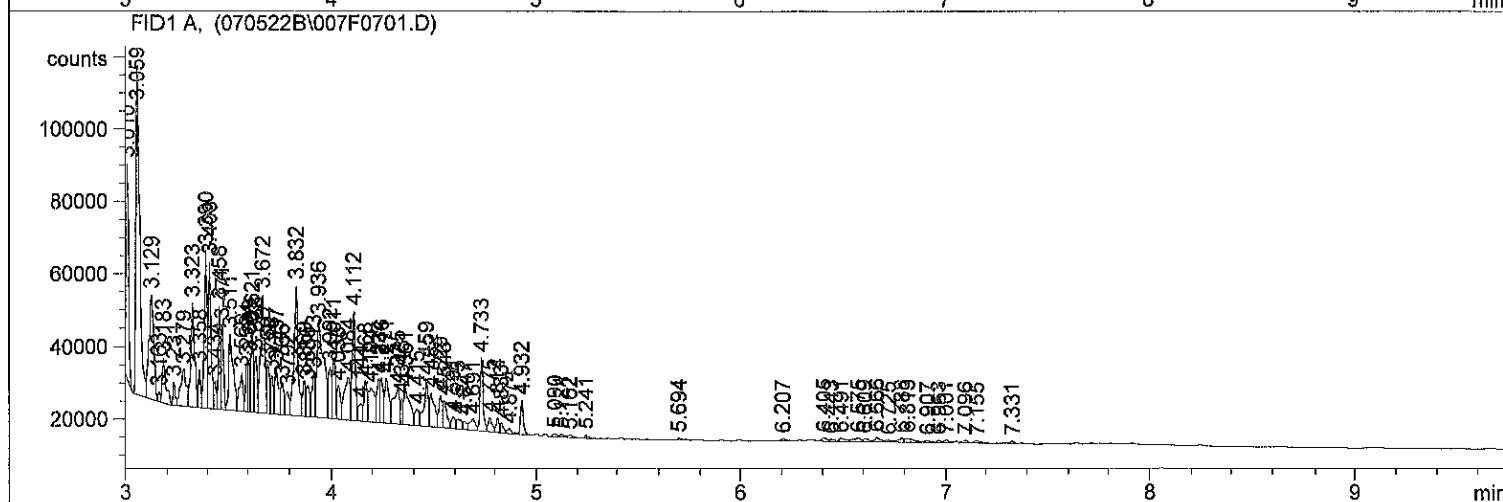
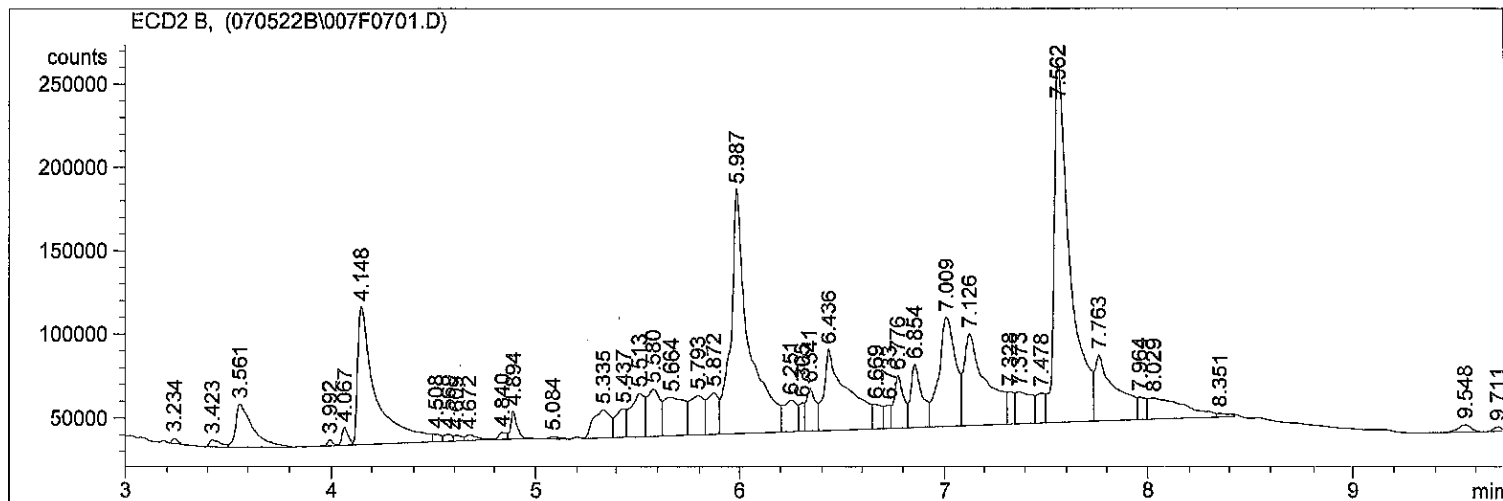


*** End of Report ***

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=====
Injection Date : 7/5/2022 5:38:13 PM      Seq. Line : 7
Sample Name    : 22G0019 04                Location  : Vial 7
Acq. Operator  : CTO/MRB                   Inj       : 1
                                           Inj Volume: 1 µl

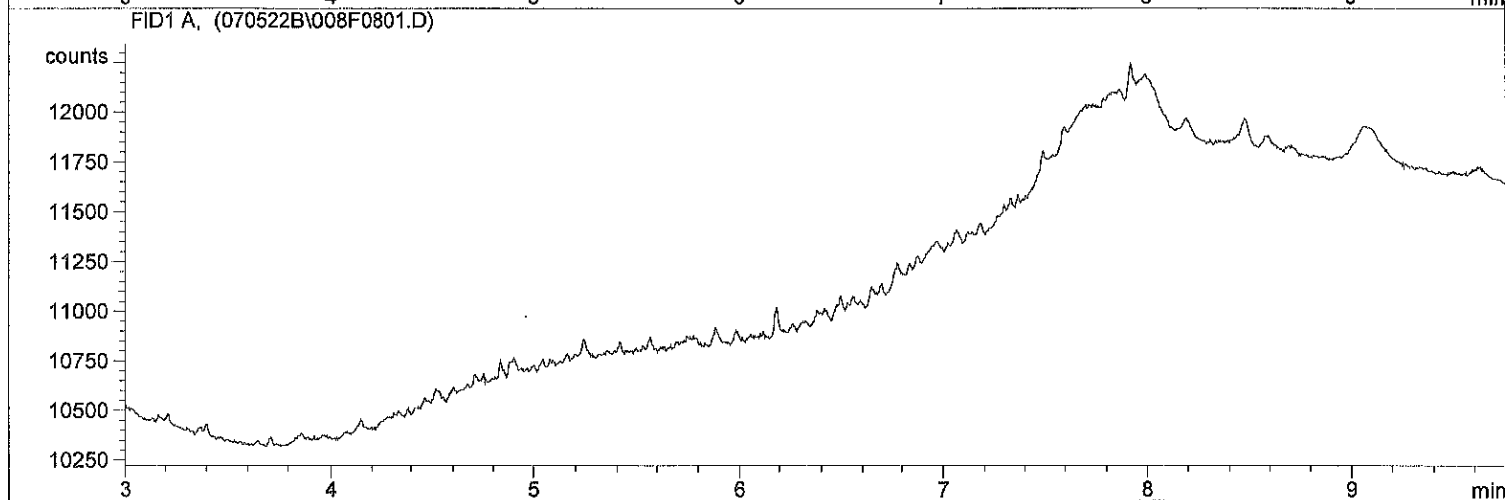
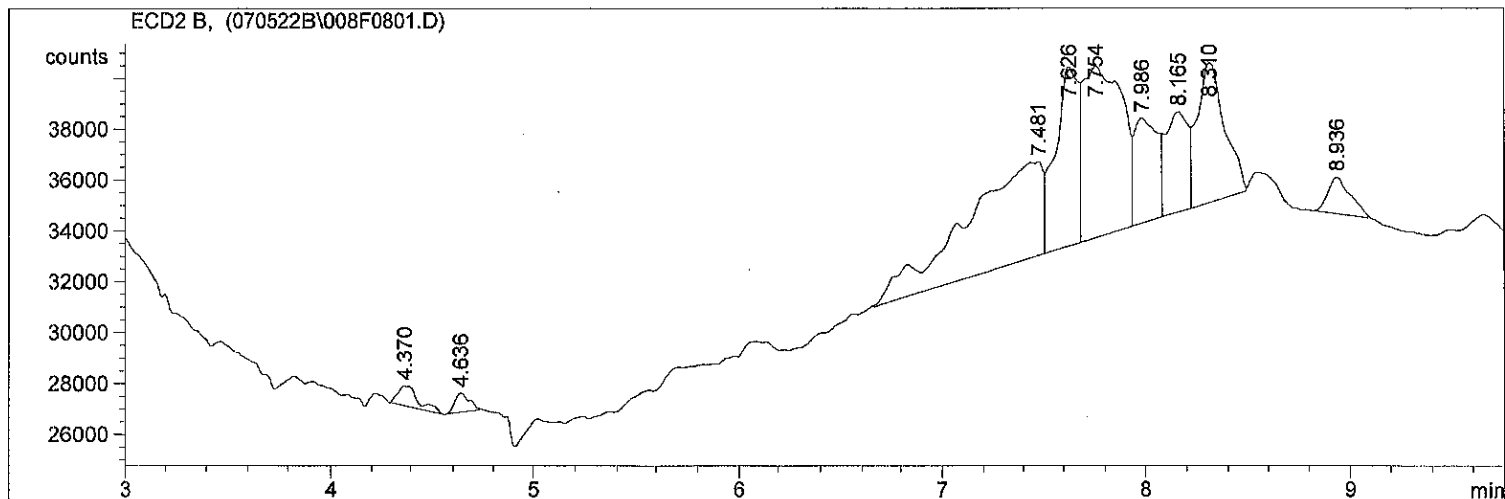
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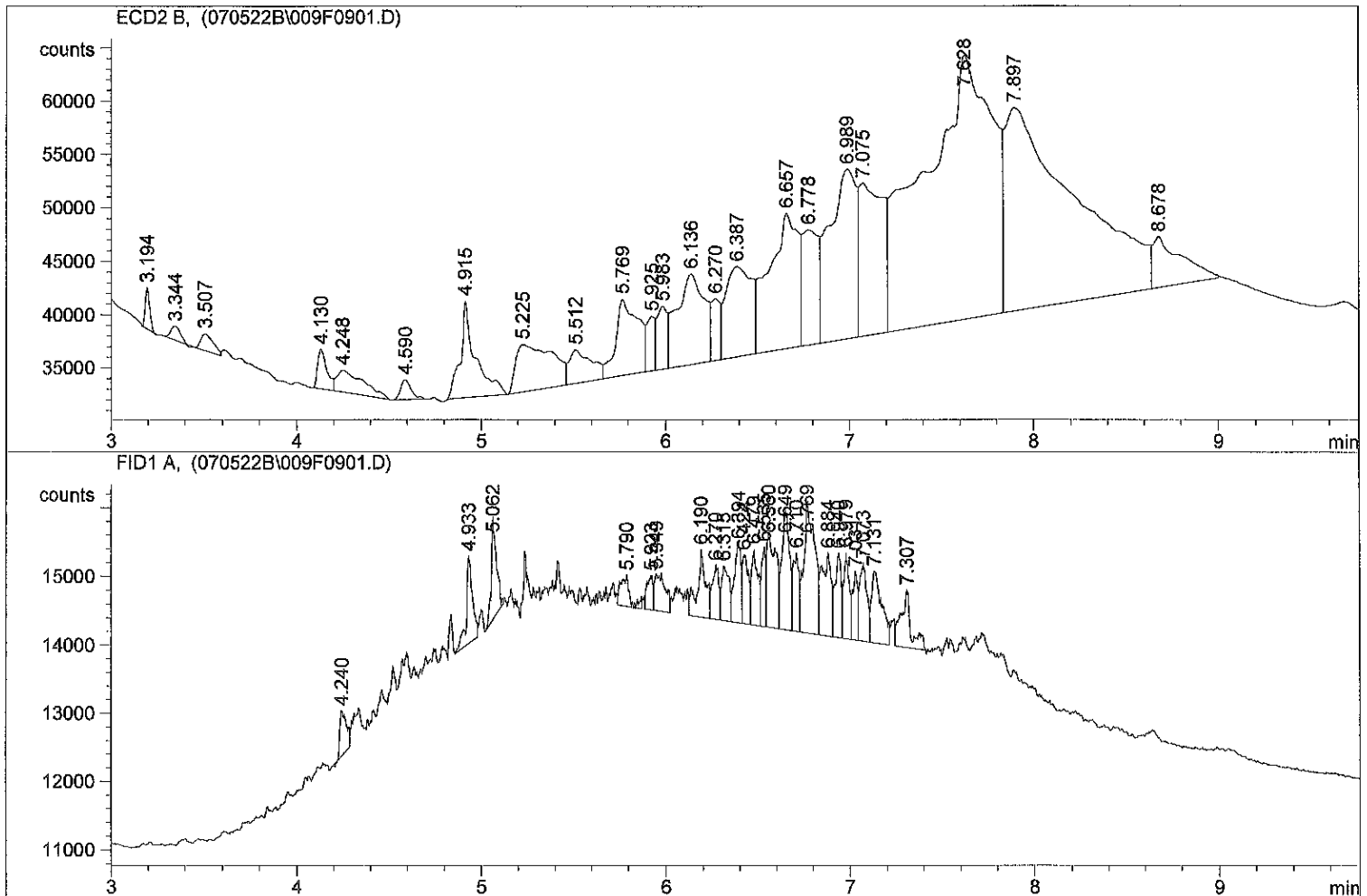
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Injection Date : 7/5/2022 5:51:46 PM Seq. Line : 8
Sample Name : 22G0019 05 Location : Vial 8
Acq. Operator : CTO/MRB Inj : 1
 Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\070522B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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*** End of Report ***

=====
Injection Date : 7/5/2022 6:06:22 PM Seq. Line : 9
Sample Name : 22G0019 06 Location : Vial 9
Acq. Operator : CTO/MRB Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\070522B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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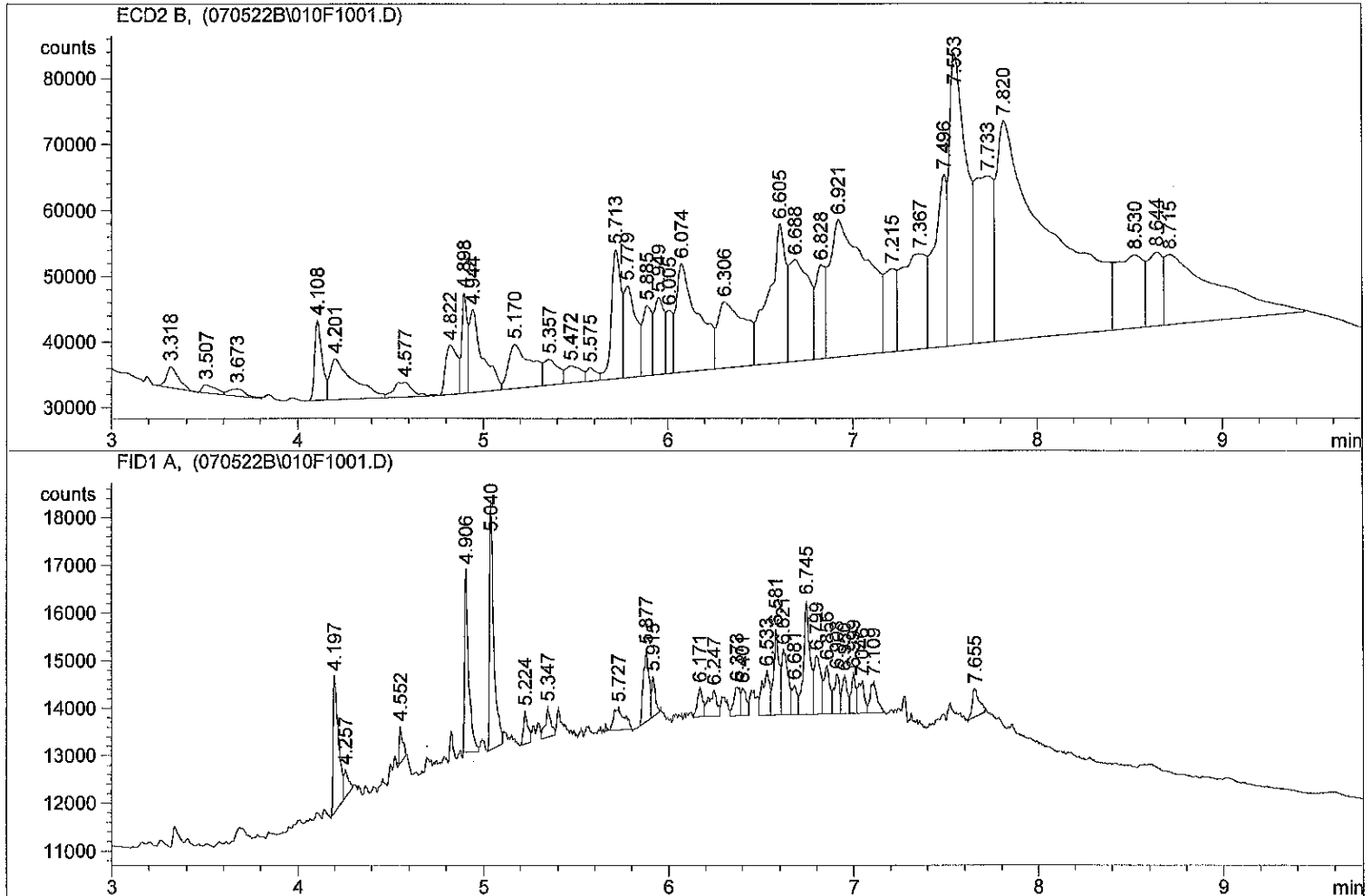
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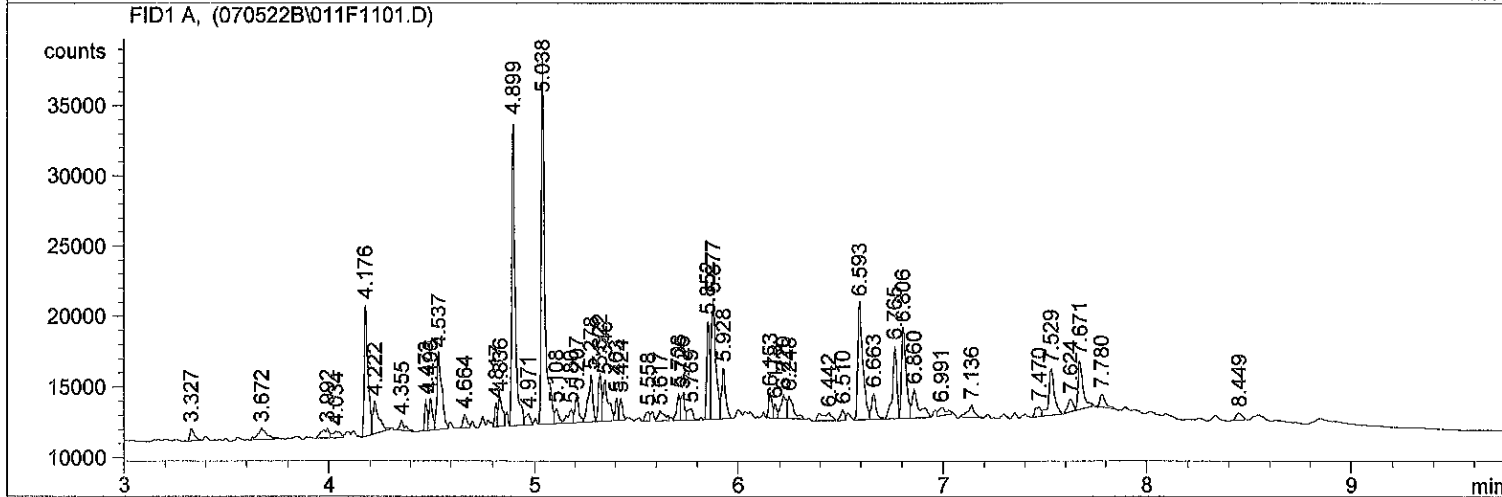
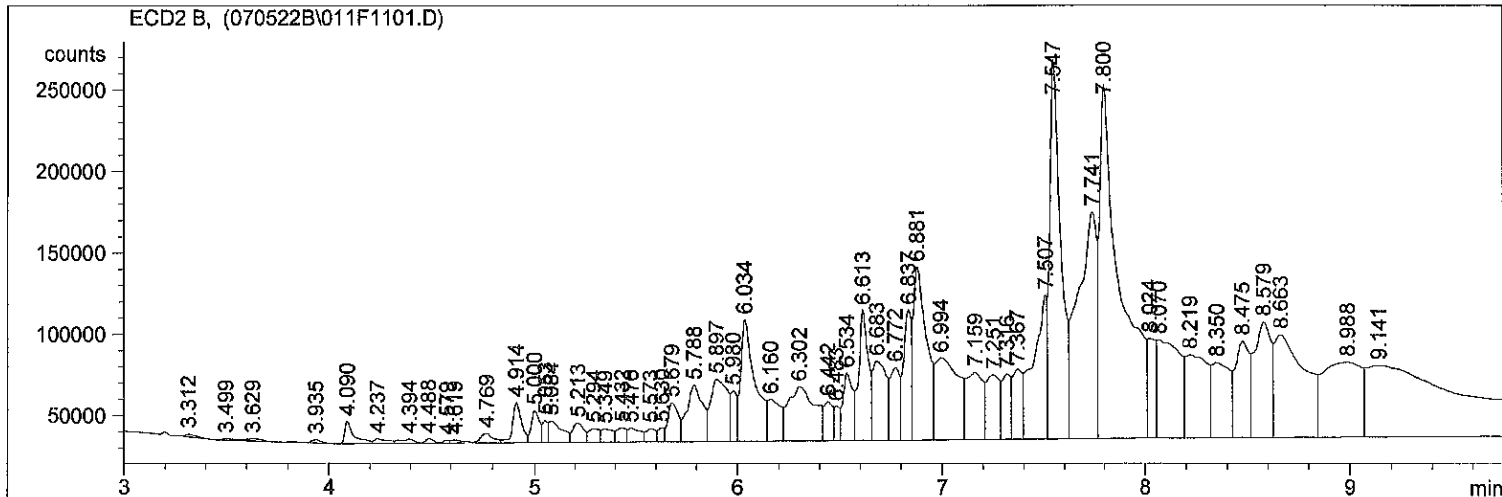
Injection Date	: 7/5/2022 6:19:57 PM	Seq. Line	: 10
Sample Name	: 22G0019 07	Location	: Vial 10
Acq. Operator	: CTO/MRB	Inj	: 1
		Inj Volume	: 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\070522B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

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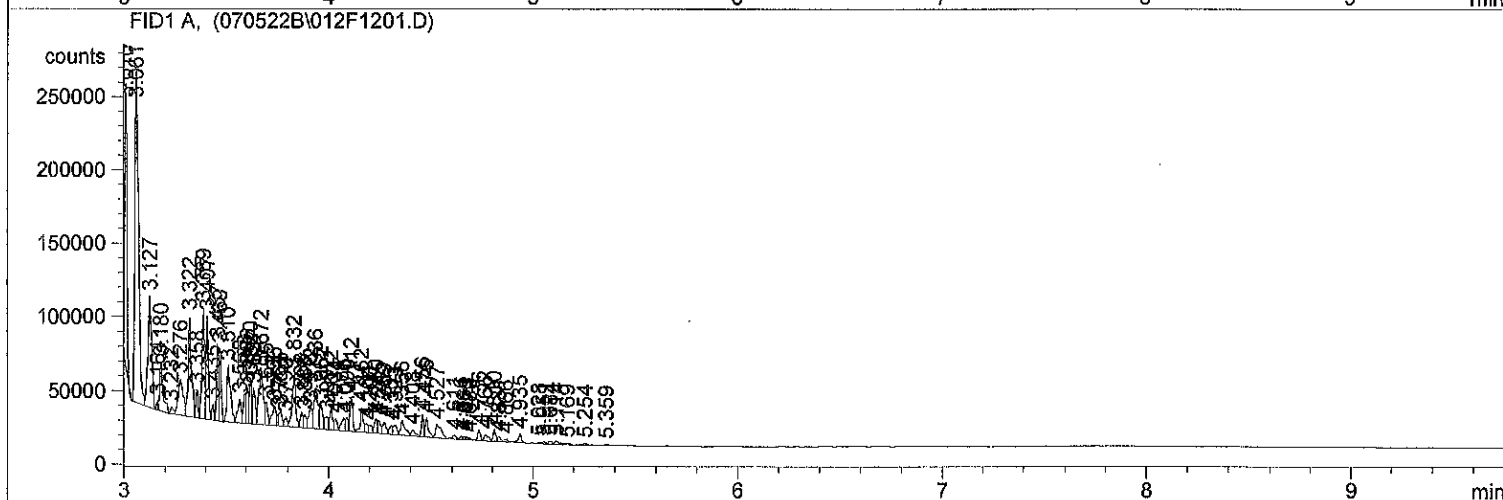
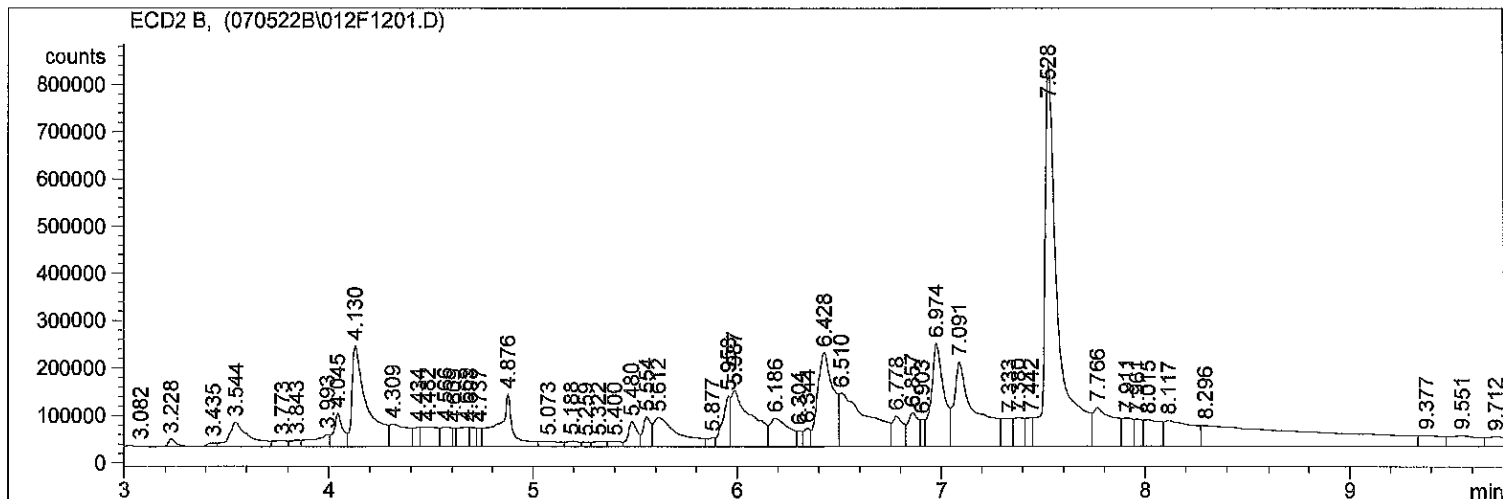


Injection Date : 7/5/2022 6:34:41 PM Seq. Line : 11
Sample Name : 22G0019 08 Location : Vial 11
Acq. Operator : CTO/MRB Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\070522B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

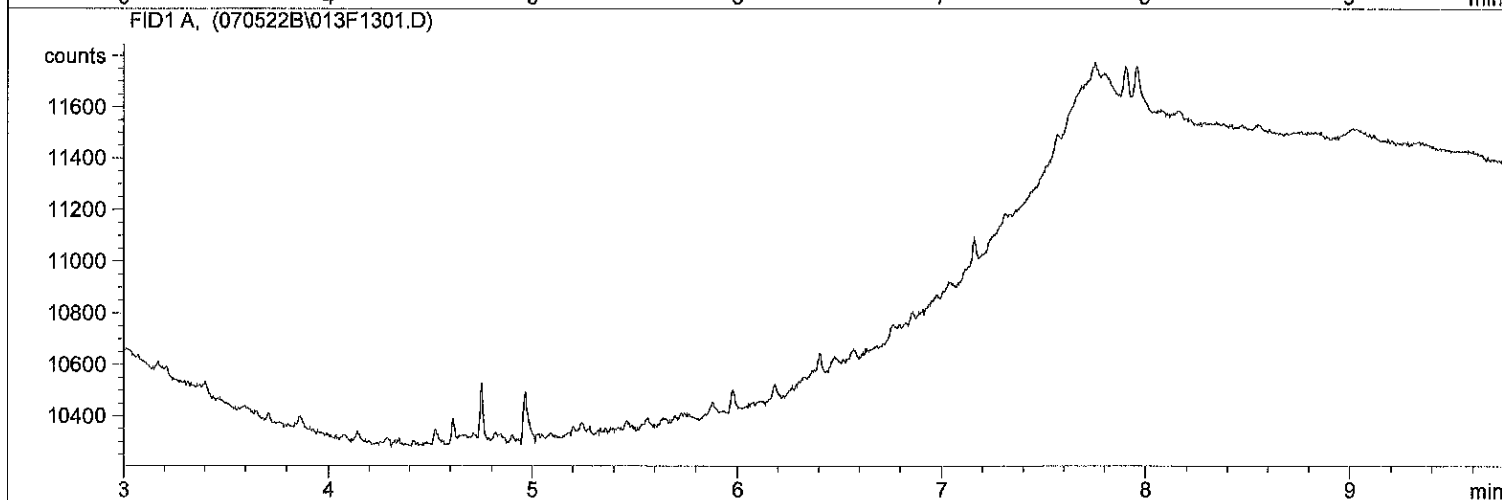
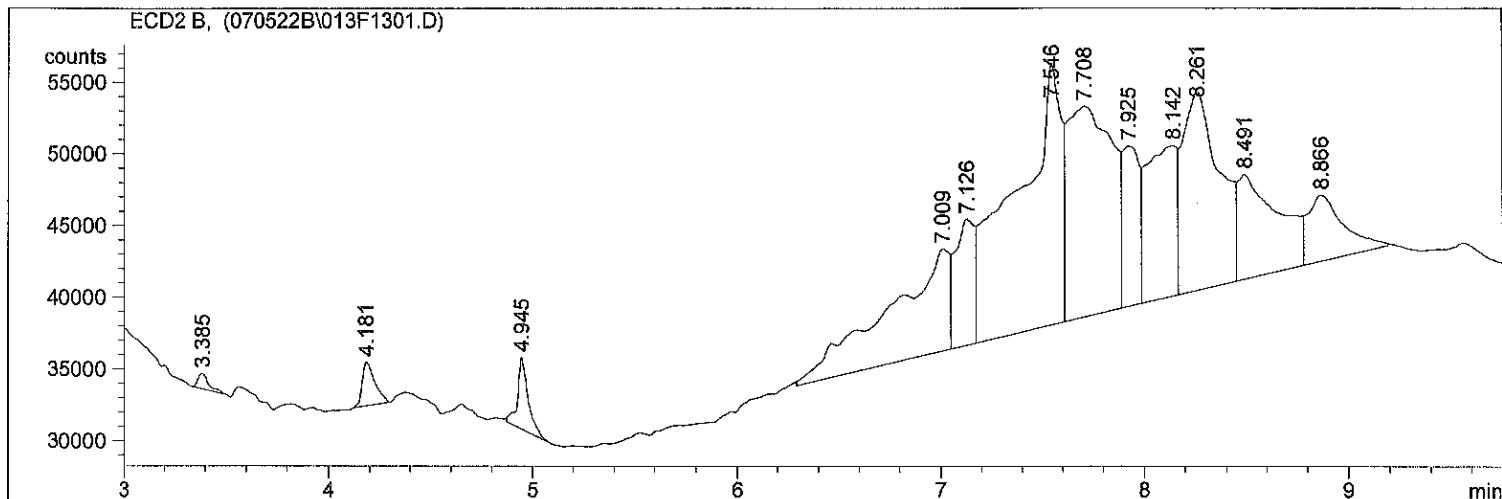
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Injection Date : 7/5/2022 6:49:18 PM Seq. Line : 12
Sample Name : 22G0019 09 Location : Vial 12
Acq. Operator : CTO/MRB Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\070522B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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*** End of Report ***

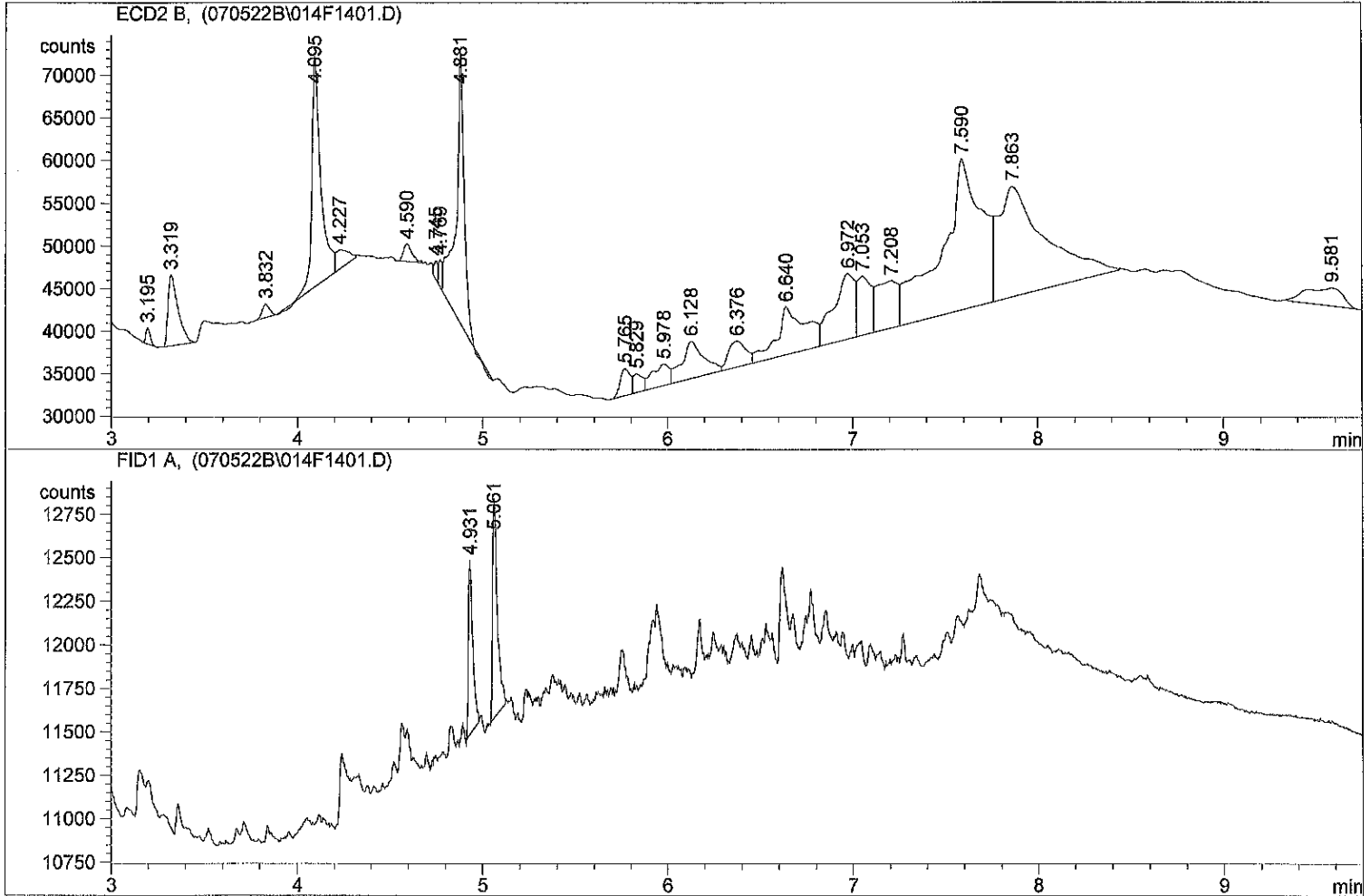
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Injection Date : 7/5/2022 7:02:53 PM Seq. Line : 13
Sample Name : 22G0019 10 Location : Vial 13
Acq. Operator : CTO/MRB Inj : 1
 Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\070522B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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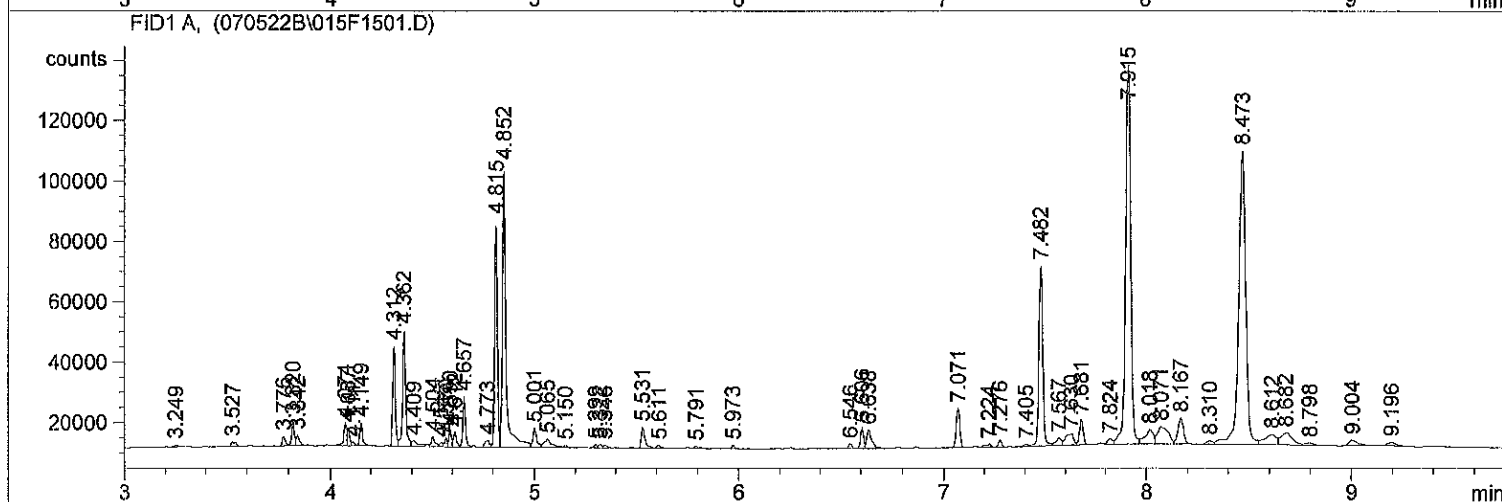
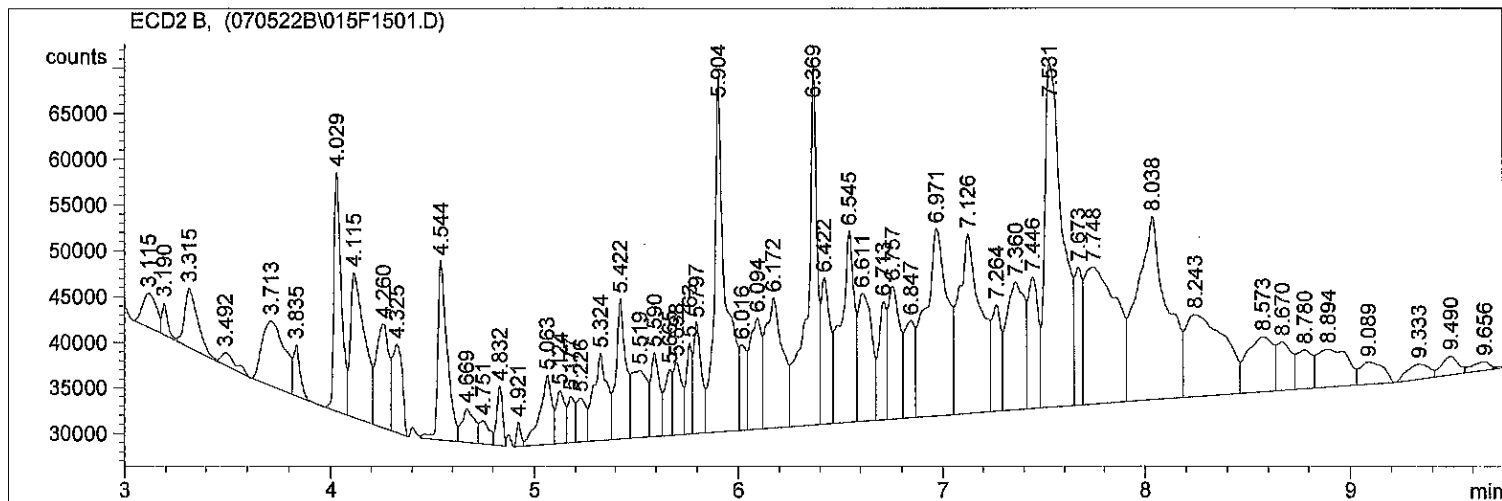
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=====
Injection Date : 7/5/2022 7:16:29 PM Seq. Line : 14
Sample Name : 22G0019 11 Location : Vial 14
Acq. Operator : CTO/MRB Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\070522B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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*** End of Report ***

Injection Date : 7/5/2022 7:31:11 PM Seq. Line : 15
Sample Name : 22G0019 13 Location : Vial 15
Acq. Operator : CTO/MRB Inj : 1
Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\070522B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

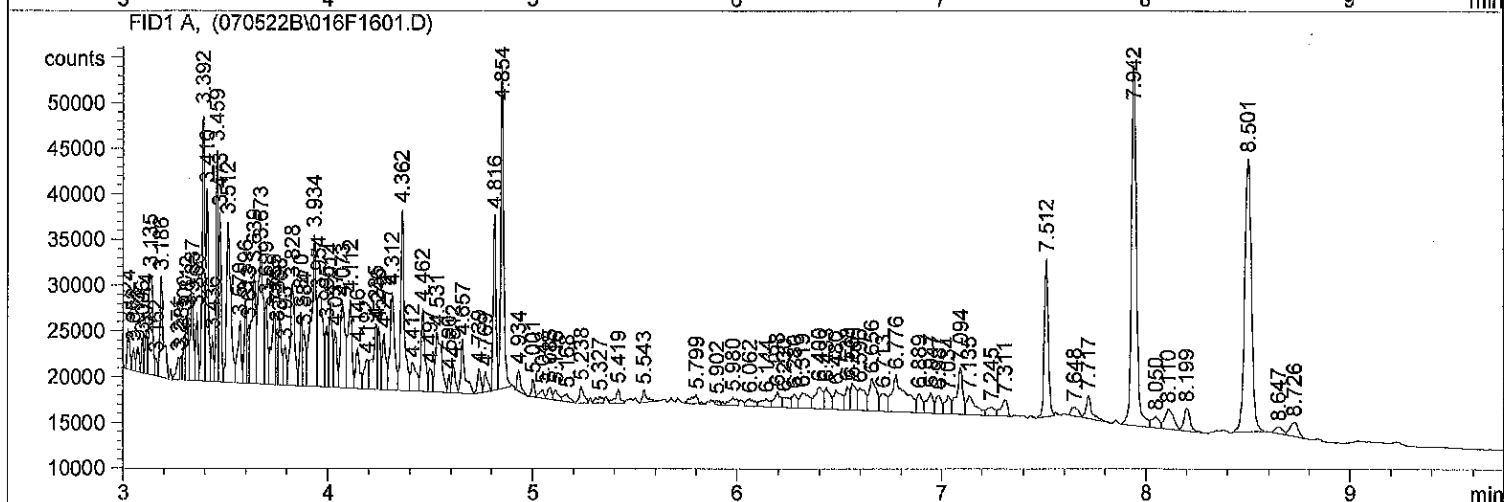
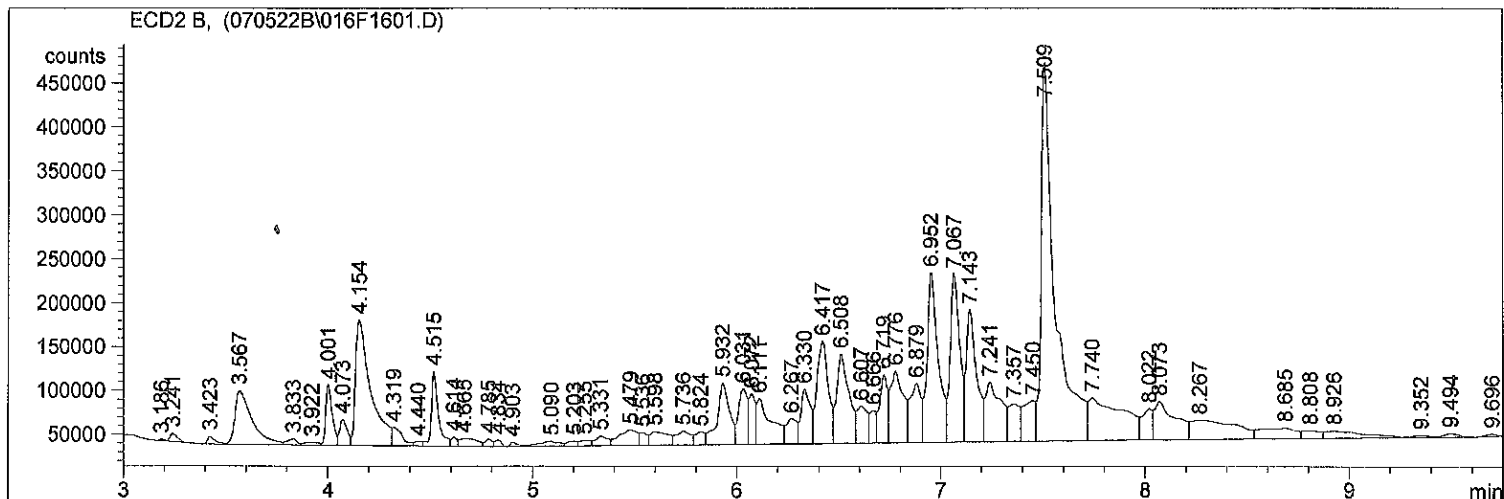


*** End of Report ***

```

=====
Injection Date : 7/5/2022 7:45:45 PM      Seq. Line : 16
Sample Name    : 22G0019 15                Location  : Vial 16
Acq. Operator  : CTO/MRB                   Inj      : 1
                                           Inj Volume : 1 µl

Sequence File  : C:\HPCHEM\1\SEQUENCE\070522B.S
Method         : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed   : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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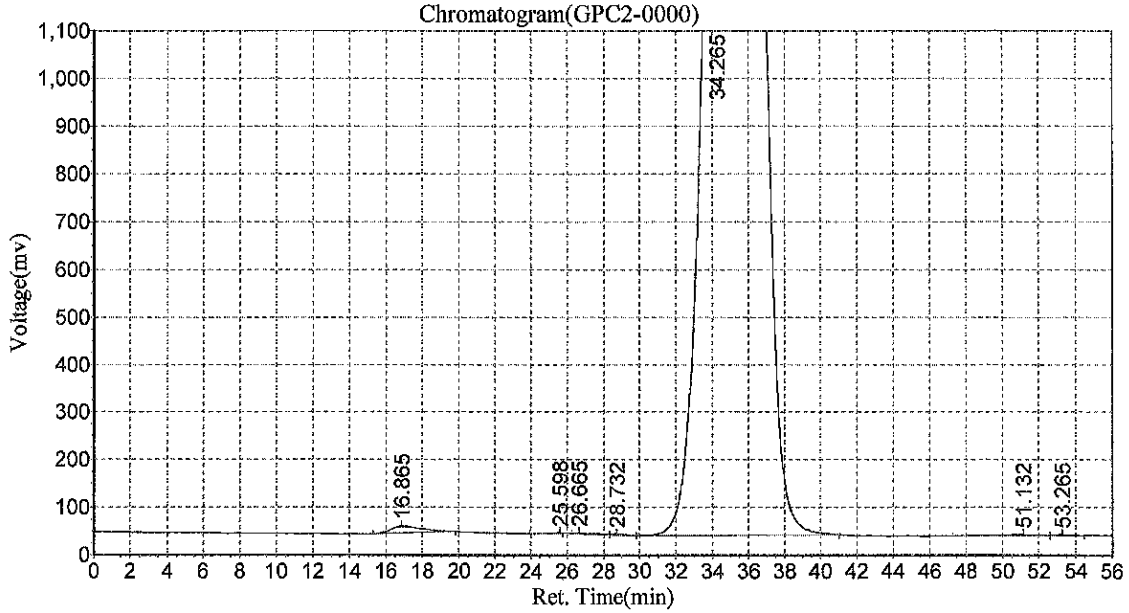


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BKG0069 22G0019 BAN

Date:2022-07-11,9:43:00 PM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0000
 Method File:E:\GPC2_InHouse.mtd

Analyst:°CCT
 Date/Time:2022-07-11,9:43:03 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.865	14342.126	1701630.625	0.4876
2		25.598	3958.670	209104.234	0.0599
3		26.665	3719.580	322013.688	0.0923
4		28.732	2606.091	127058.203	0.0364
5		34.265	1332456.500	346052576.000	99.1615
6		51.132	2393.042	451063.344	0.1293
7		53.265	2048.264	115410.414	0.0331
Total			1361524.273	348978856.508	100.000

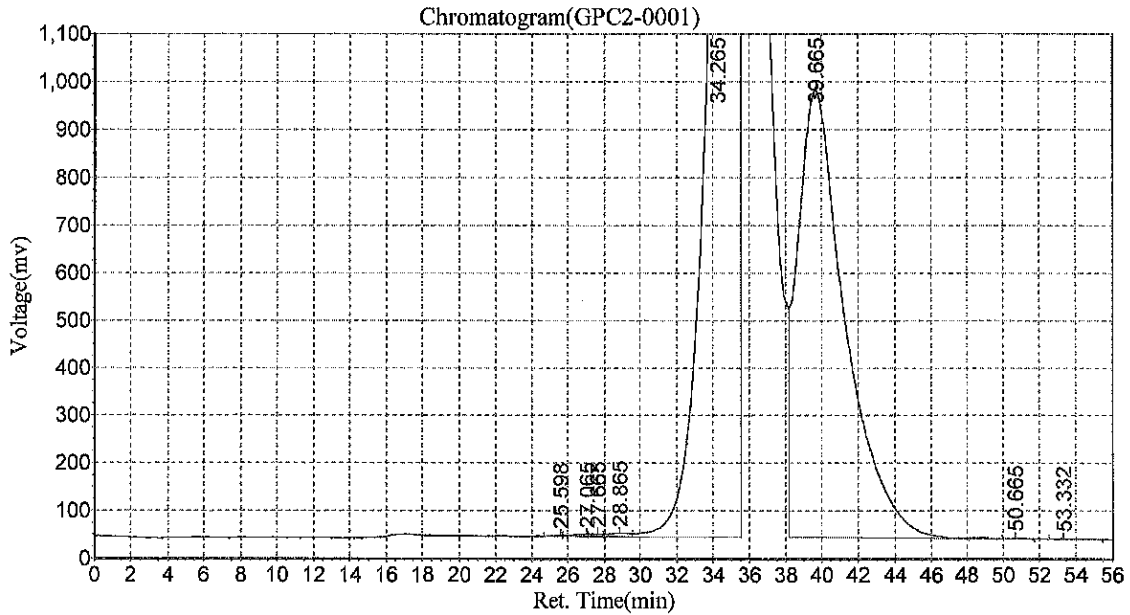
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-11,10:40:44 PM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0001
 Method File:E:\GPC2_InHouse.mtd

Analyst: CCT
 Date/Time:2022-07-11,10:40:44 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		25.598	3044.062	136403.281	0.0378
2		27.065	5638.104	375839.438	0.1042
3		27.665	6406.848	289916.063	0.0804
4		28.865	8487.337	754886.063	0.2093
5		34.265	1329707.000	187612768.000	52.0129
6		39.665	937647.750	171325616.000	47.4975
7		50.665	1550.046	103665.539	0.0287
8		53.332	1404.576	105499.984	0.0292
Total			2293885.723	360704594.367	100.000

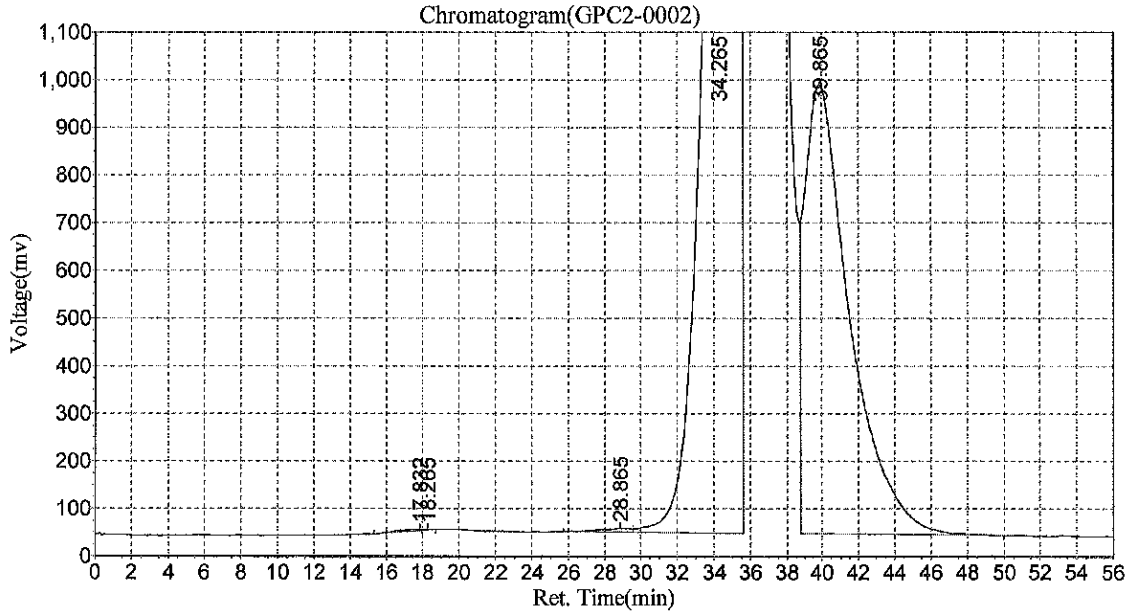
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-11,11:38:25 PM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0002
 Method File:E:\GPC2_InHouse.mtd

Analyst:f°CCT
 Date/Time:2022-07-11,11:38:26 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.832	4189.505	485186.531	0.1263
2		18.265	3109.670	107100.133	0.0279
3		28.865	9347.610	1353345.125	0.3523
4		34.265	1326042.500	215783552.000	56.1648
5		39.865	944246.938	166467856.000	43.3288
Total			2286936.223	384197039.789	100.000

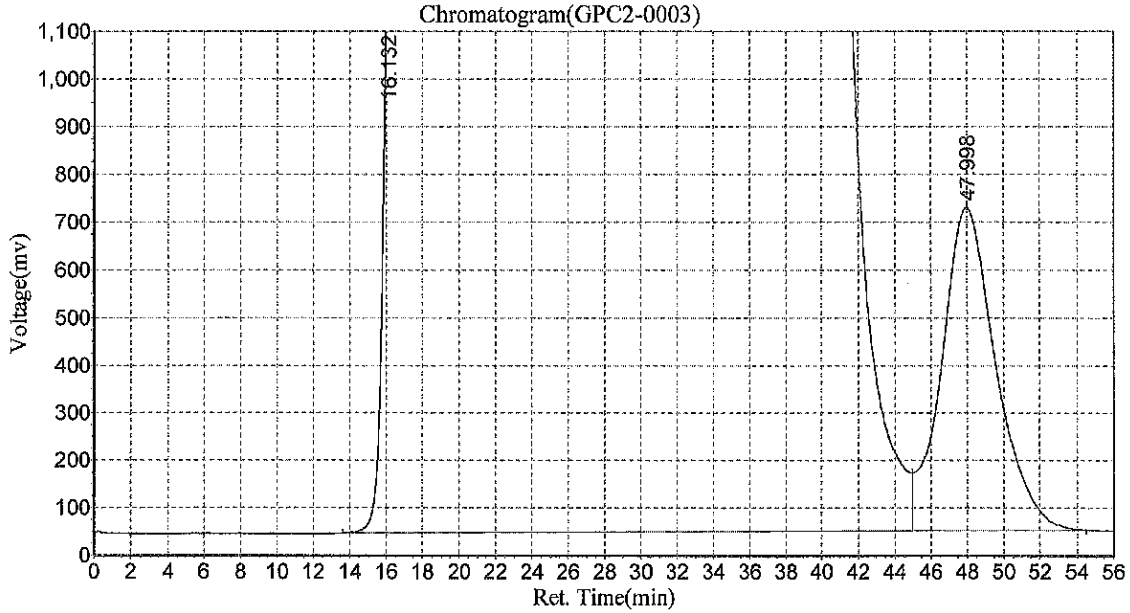
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,12:36:08 AM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0003
 Method File:E:\GPC2_InHouse.mtd

Analyst:°CCT
 Date/Time:2022-07-12,12:36:12 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.132	1333812.875	2132638592.000	93.7989
2	Dump BAN	47.998	677608.813	140989056.000	6.2011
Total			2011421.688	2273627648.000	100.000

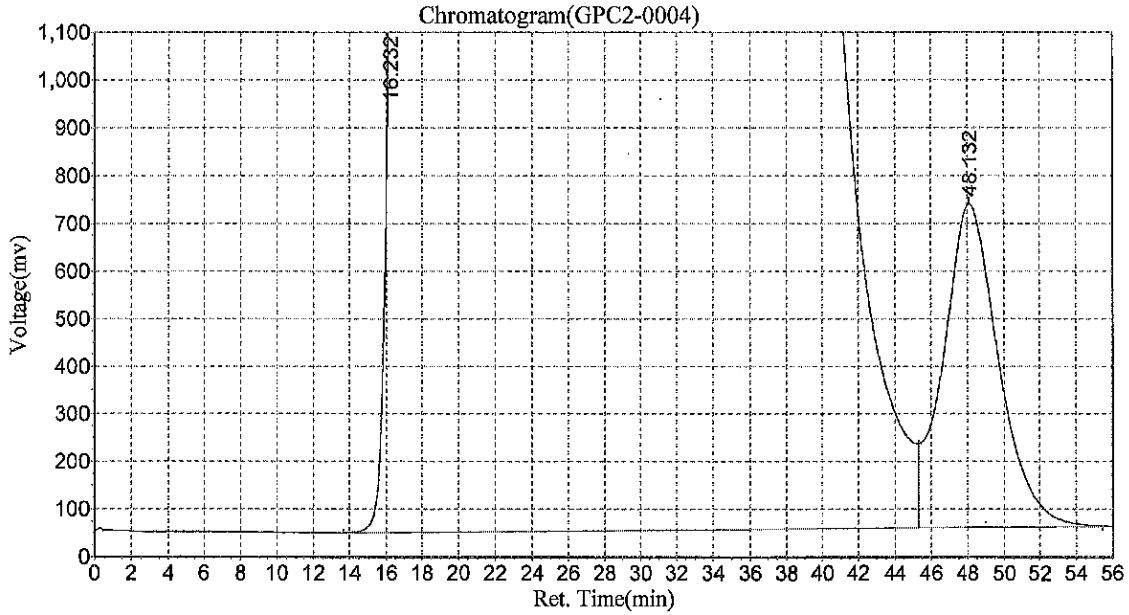
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,1:33:51 AM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0004
 Method File:E:\GPC2_InHouse.mtd

Analyst:°CCT
 Date/Time:2022-07-12,1:33:53 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.232	1328355.250	2104310144.000	93.5743
2		46.132	680141.688	144501024.000	6.4257
Total			2008496.938	2248811168.000	100.000

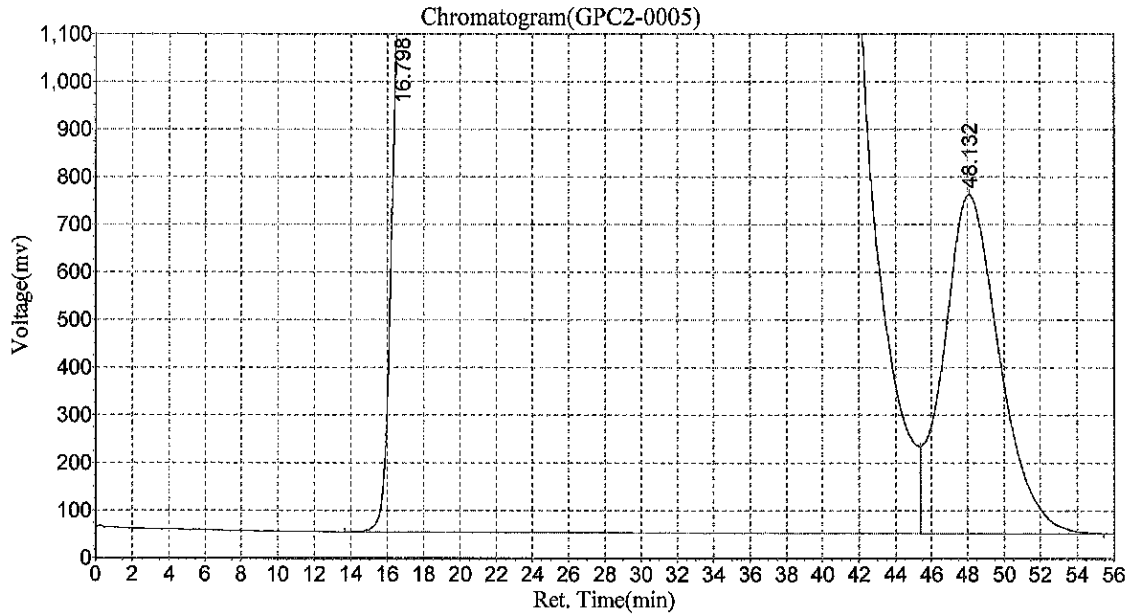
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,2:31:33 AM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0005
 Method File:E:\GPC2_InHouse.mtd

Analyst:£°CCT
 Date/Time:2022-07-12,2:31:34 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.798	1323805.375	2136589440.000	93.3522
2		48.132	709353.625	152149584.000	6.6477
Total			2033159.000	2288739024.000	100.000

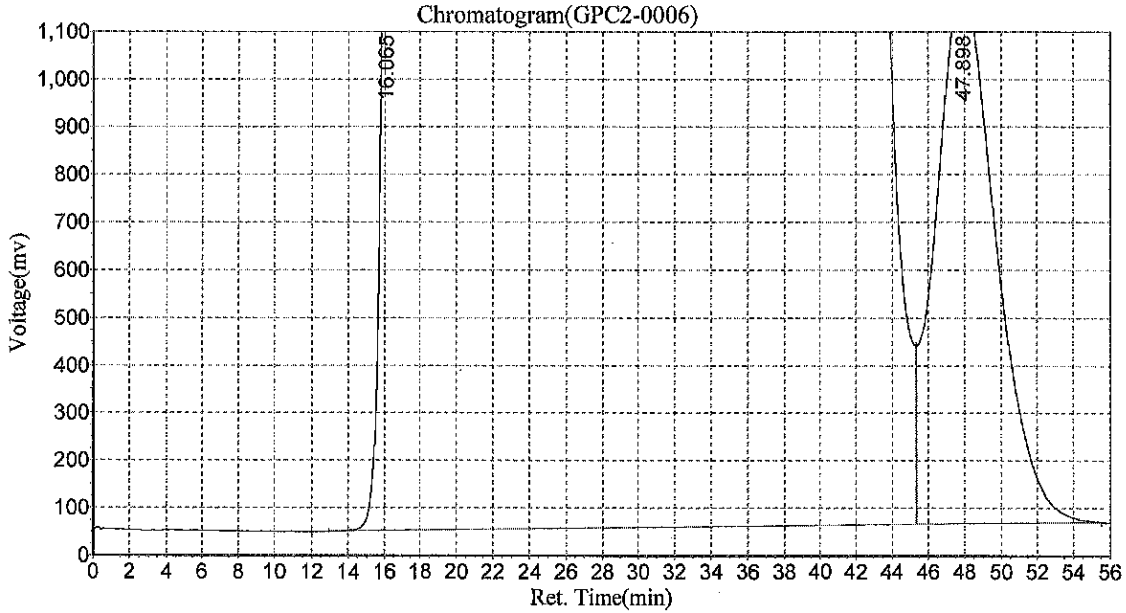
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,3:29:15 AM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0006
 Method File:E:\GPC2_InHouse.mtd

Analyst:°CCT
 Date/Time:2022-07-12,3:29:19 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.065	1327605.750	2281205760.000	89.7343
2		47.898	1148902.125	260972544.000	10.2657
Total			2476507.875	2542178304.000	100.000

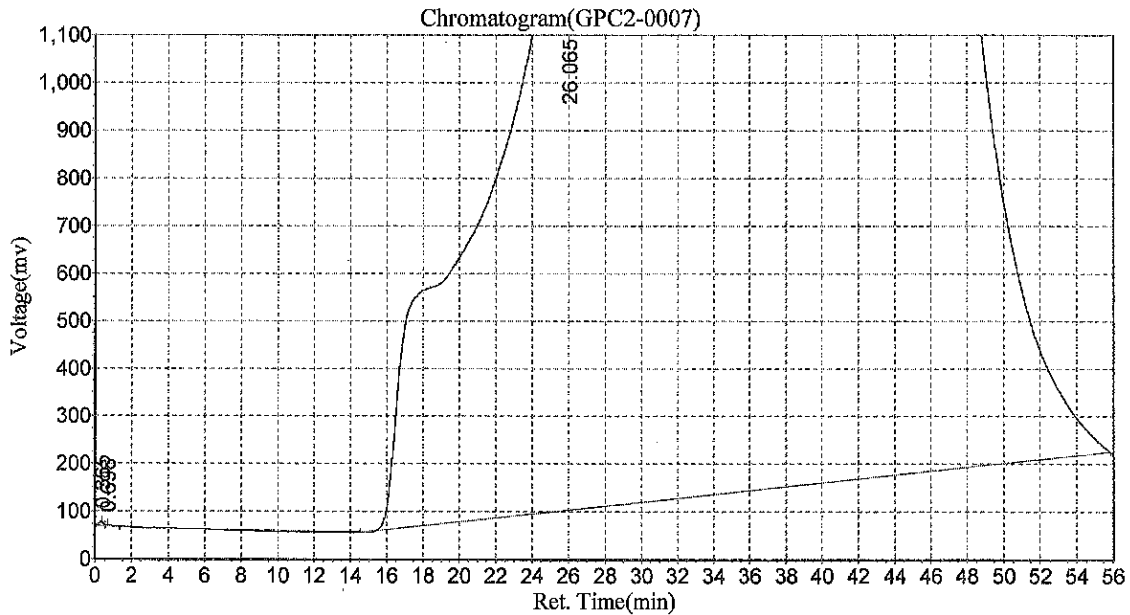
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,4:27:02 AM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0007
 Method File:E:\GPC2_InHouse.mtd

Analyst:°CCT
 Date/Time:2022-07-12,4:27:03 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.365	9078.481	190049.469	0.0086
2		0.698	2908.963	100393.914	0.0045
3		26.065	1273149.375	2207223040.000	99.9868
Total			1285136.819	2207513483.383	100.000

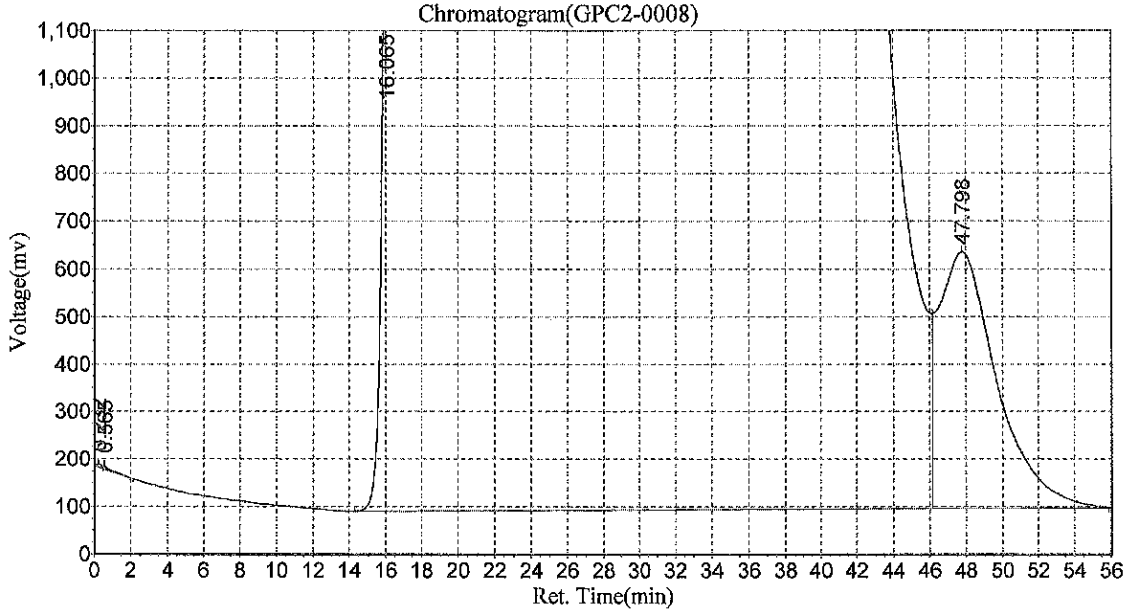
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,5:24:43 AM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0008
 Method File:E:\GPC2_InHouse.mtd

Analyst:£°CCT
 Date/Time:2022-07-12,5:24:44 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.232	7307.714	140280.750	0.0059
2		0.565	6921.571	210798.734	0.0089
3		16.065	1288178.125	2243804416.000	94.8970
4		47.798	539499.125	120308136.000	5.0882
Total			1841906.536	2364463631.484	100.000

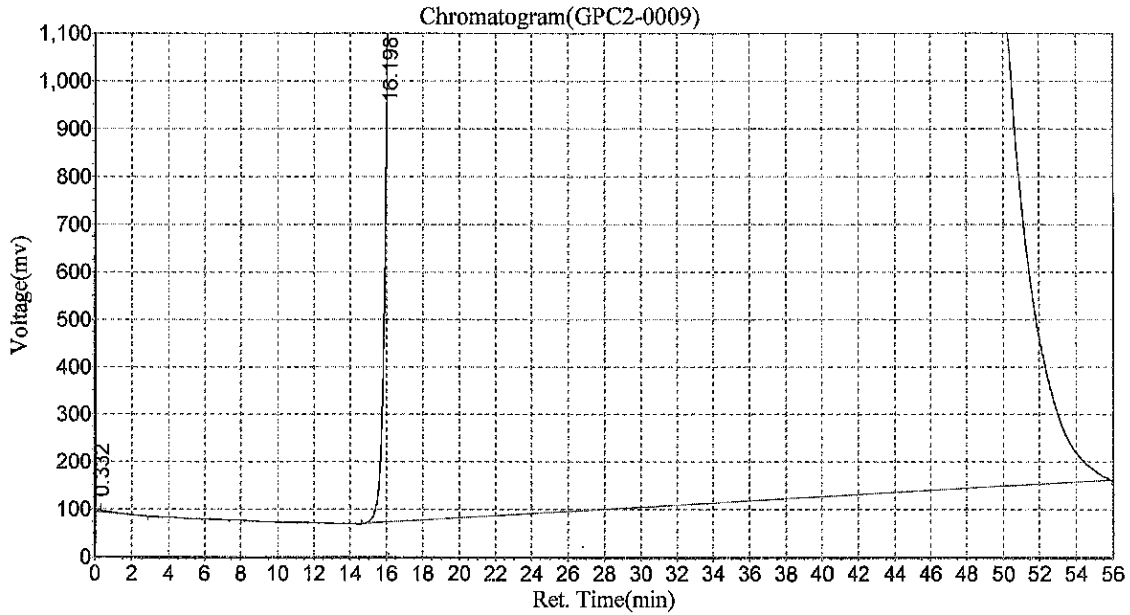
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,6:22:26 AM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0009
 Method File:E:\GPC2_InHouse.mtd

Analyst:°CCT
 Date/Time:2022-07-12,6:22:27 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.332	5312.698	296412.000	0.0110
2		16.198	1305769.750	2687360000.000	99.9890
Total			1311082.448	2687656412.000	100.000

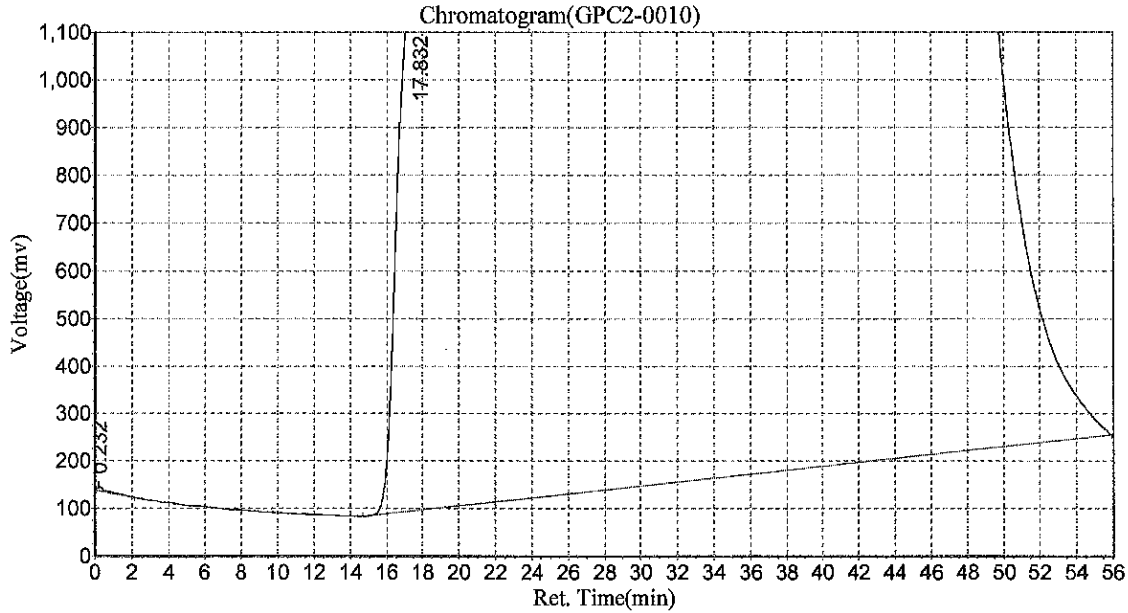
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,7:20:09 AM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0010
 Method File:E:\GPC2_InHouse.mtd

Analyst:°CCT
 Date/Time:2022-07-12,7:20:10 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.232	7117.571	266779.813	0.0108
2		17.832	1077545.750	2474082816.000	99.9892
Total			1084663.321	2474349595.813	100.000

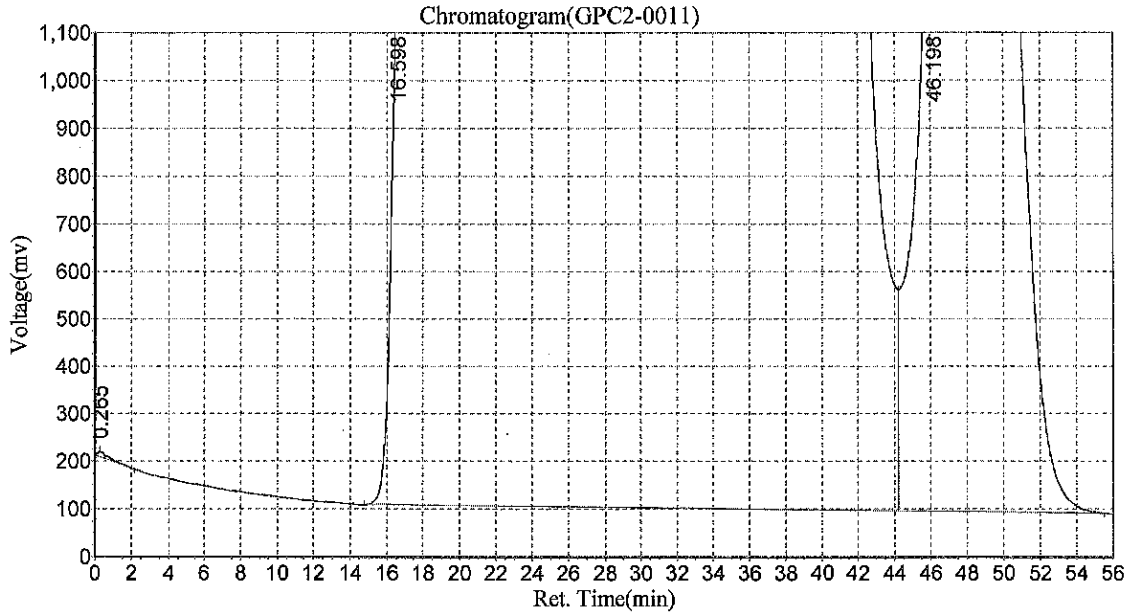
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,8:17:53 AM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0011
 Method File:E:\GPC2_InHouse.mtd

Analyst:°CCT
 Date/Time:2022-07-12,8:17:54 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.265	9921.531	424928.000	0.0170
2		16.598	1270633.000	1993412608.000	79.6079
3		46.198	1282699.250	510201504.000	20.3751
Total			2563253.781	2504039040.000	100.000

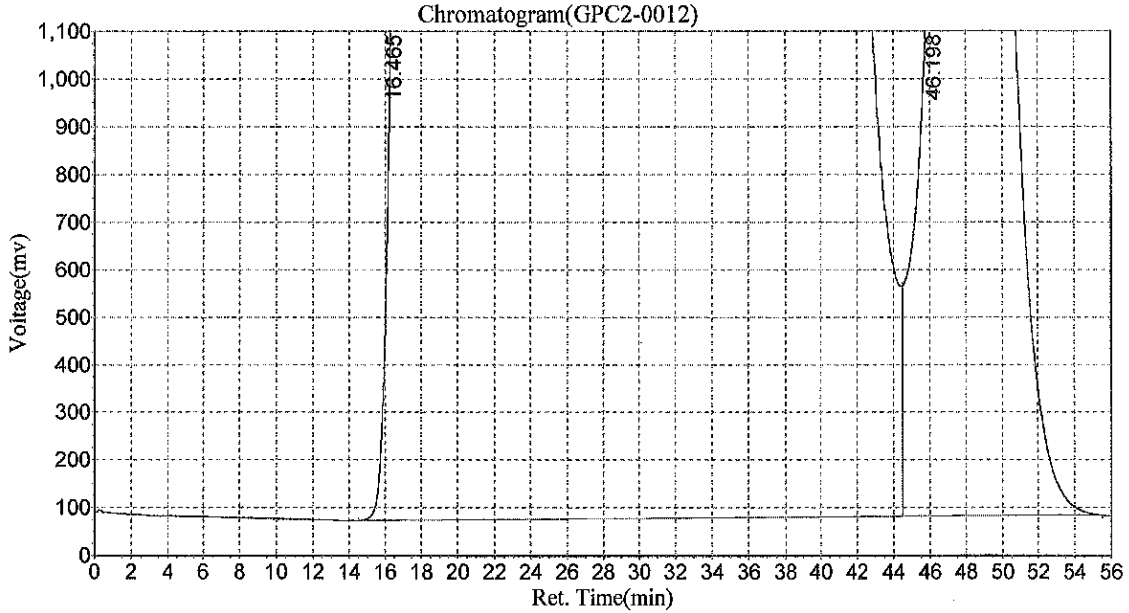
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,9:15:34 AM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0012
 Method File:E:\GPC2_InHouse.mtd

Analyst:°CCT
 Date/Time:2022-07-12,9:15:35 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.465	1304925.000	2078713216.000	80.9490
2		46.198	1295519.625	489217536.000	19.0510
Total			2600444.625	2567930752.000	100.000

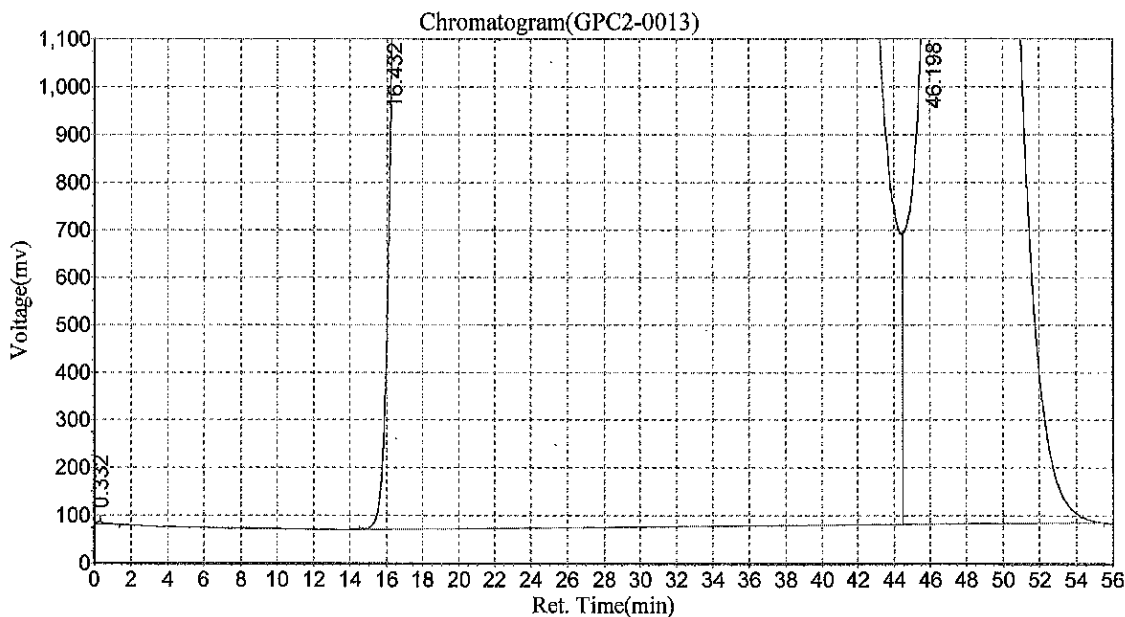
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,10:13:21 AM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0013
 Method File:E:\GPC2_InHouse.mtd

Analyst:°CCT
 Date/Time:2022-07-12,10:13:23 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.332	5492.483	193111.359	0.0073
2		16.432	1307371.125	2140818176.000	80.5461
3		46.198	1295034.250	516867136.000	19.4466
Total			2607897.858	2657878423.359	100.000

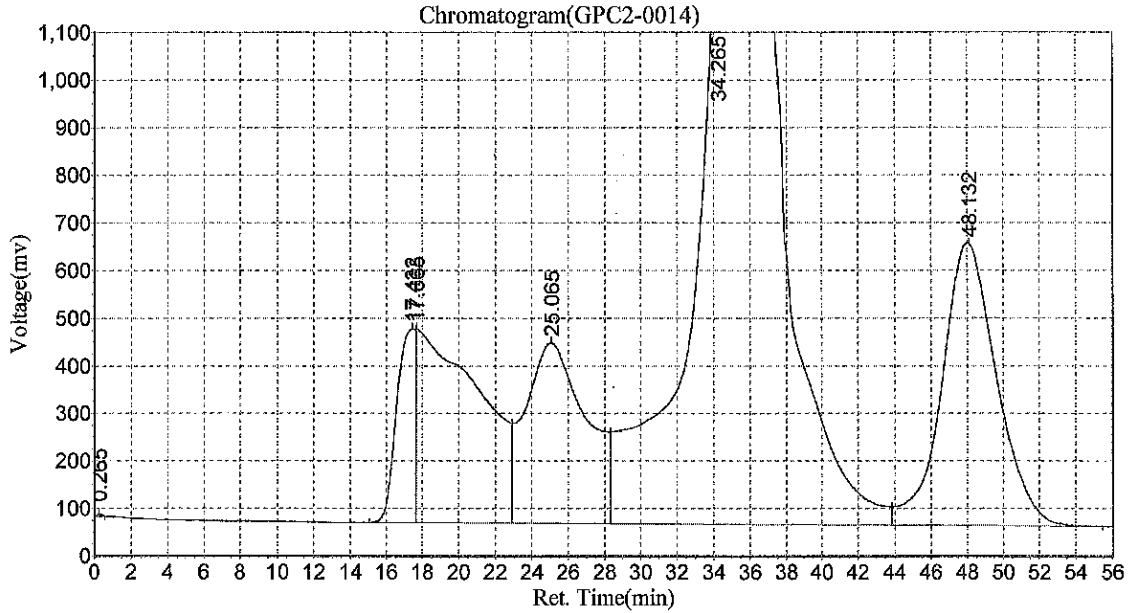
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,11:11:08 AM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0014
 Method File:E:\GPC2_InHouse.mtd

Analyst: CCT
 Date/Time:2022-07-12,11:11:09 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.265	6024.364	142840.297	0.0176
2		17.432	407950.594	28311406.000	3.4888
3		17.665	408429.406	97512240.000	12.0163
4		25.065	379970.781	89117840.000	10.9819
5		34.265	1307664.875	471538432.000	58.1070
6		48.132	593728.438	124877928.000	15.3885
Total			3103768.458	811500686.297	100.000

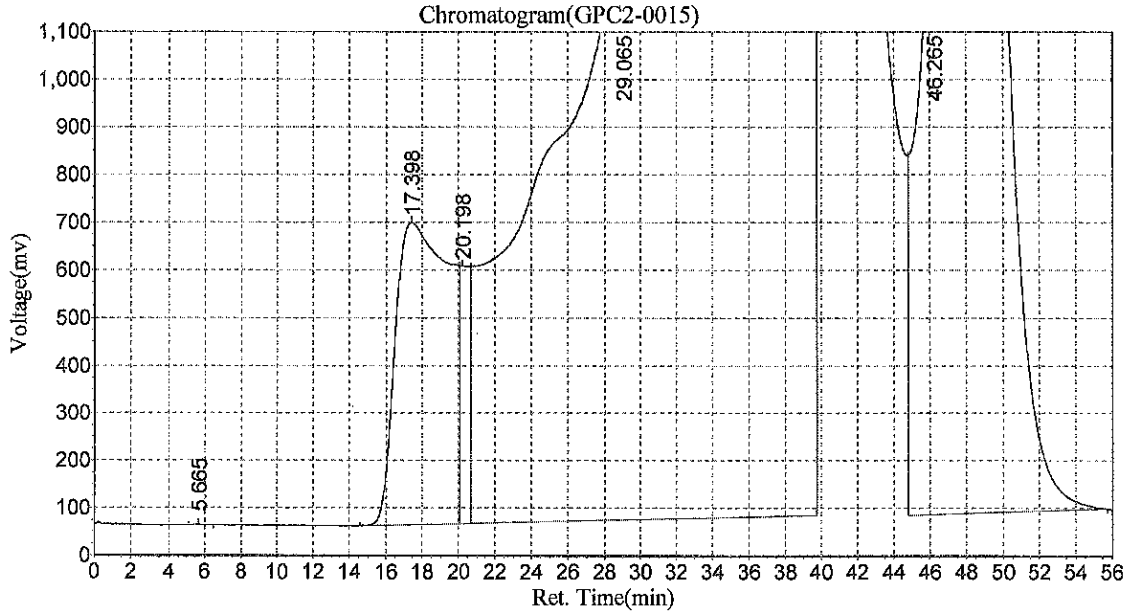
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,12:08:51 PM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0015
 Method File:E:\GPC2_InHouse.mtd

Analyst:°CCT
 Date/Time:2022-07-12,12:08:53 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		5.665	1726.947	106570.617	0.0058
2		17.398	634865.875	131469816.000	7.1892
3		20.198	541632.750	19473648.000	1.0649
4		29.065	1300614.875	1223805696.000	66.9212
5		46.265	1286722.125	453869632.000	24.8189
Total			3765562.572	1828725362.617	100.000

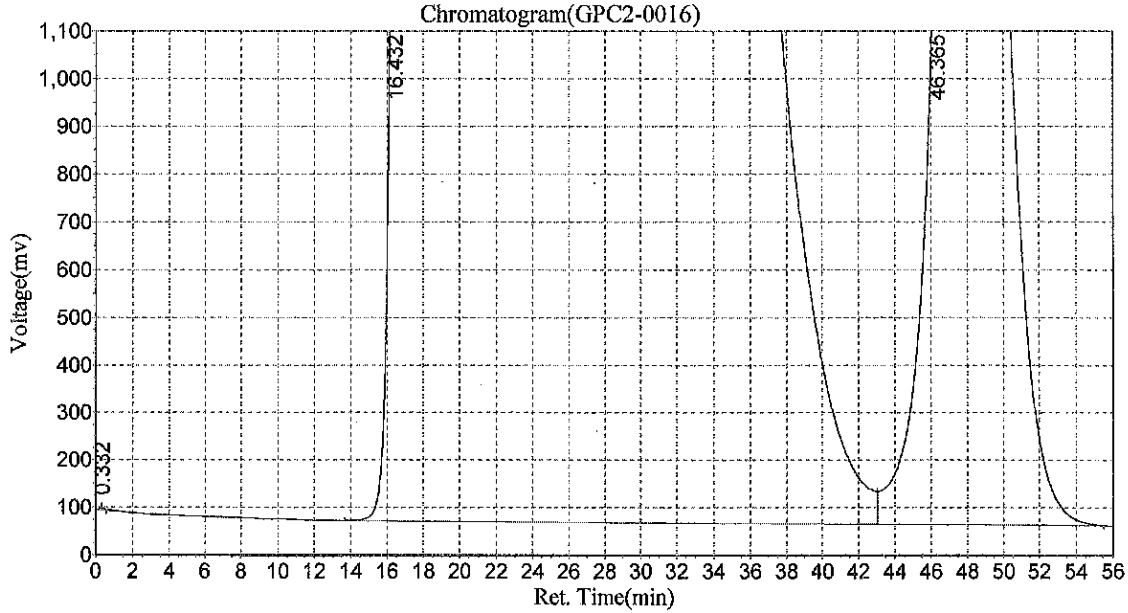
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,1:06:33 PM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0016
 Method File:E:\GPC2_InHouse.mtd

Analyst:£°CCT
 Date/Time:2022-07-12,1:06:34 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.332	5191.545	120732.445	0.0053
2		16.432	1307551.625	1813586048.000	80.1215
3		46.365	1312870.625	449837248.000	19.8731
Total			2625613.795	2263544028.445	100.000

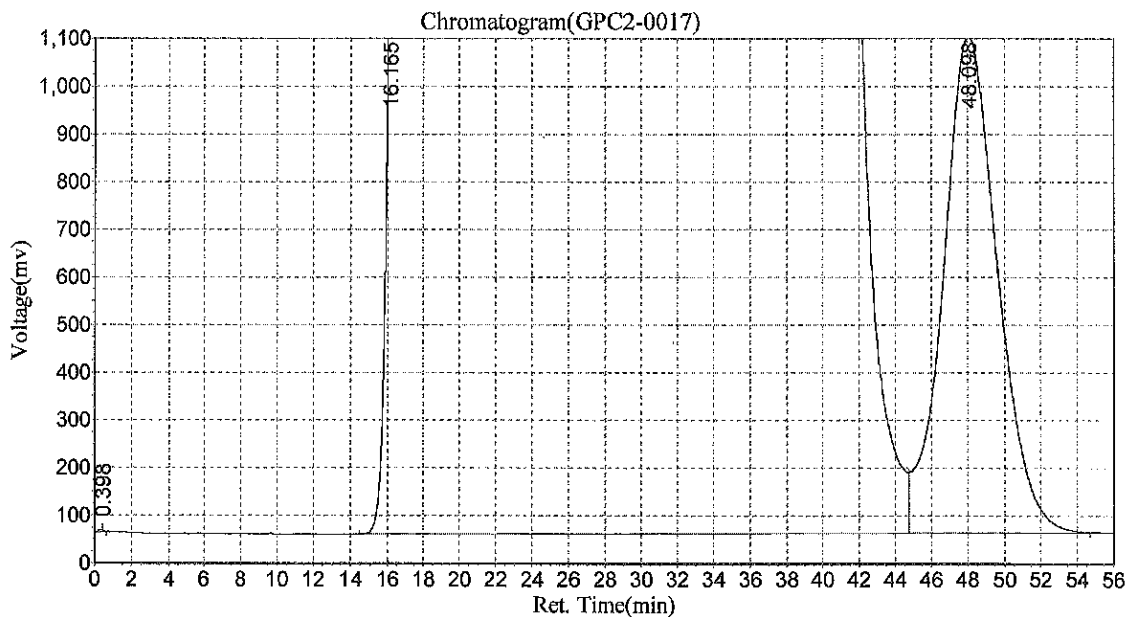
Ingredient Table

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

BKG0069 22G0019 BAN

Date:2022-07-12,2:04:16 PM
 Data File:c:\n2000\data\gpc2\071122\GPC2-0017
 Method File:E:\GPC2_InHouse.mtd

Analyst:°CCT
 Date/Time:2022-07-12,2:04:18 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.398	4660.333	103408.844	0.0044
2		16.165	1318710.875	2127276544.000	90.7950
3		48.098	1041198.688	215564896.000	9.2006
Total			2364569.896	2342944848.844	100.000

Ingredient Table

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



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Cleanup Batch: CKG0061

Cleanup Type: GPC

Cleanup Method: EPA 3640A GPC Cleanup 1:1

Analysis: EPA 8270E

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
OCM-2-MS	22G0019-15	NT1022071519.D	07/13/2022	
Matrix Spike	BKG0069-MS1	NT1022071416.D	07/13/2022	
LCS Dup	BKG0069-BSD1	NT1022071406.D	07/13/2022	
LCS	BKG0069-BS1	NT1022071405.D	07/13/2022	
Blank	BKG0069-BLK1	NT1022071404.D	07/13/2022	
Z1A-7-SC_4.5-6.5	22G0019-08	NT1022071414.D	07/13/2022	
Z1A-7-SC_2.5-4.5	22G0019-07	NT1022071413.D	07/13/2022	
Z1A-4-SC_3.5-5.5	22G0019-04	NT1022071511.D	07/13/2022	
Z1A-4-SC_6.5-8.5	22G0019-05	NT1022071512.D	07/13/2022	
Z1A-5-SC_2.5-4.5	22G0019-06	NT1022071412.D	07/13/2022	
Z1A-2-SC_3.5-5.5	22G0019-03	NT1022071409.D	07/13/2022	
Z1A-1-SC_7.5-9.5	22G0019-02	NT1022071408.D	07/13/2022	
Z1A-1-SC_5.5-7.5	22G0019-01	NT1022071509.D	07/13/2022	
Z1A-11-SC_4.0-6.0	22G0019-11	NT1022071419.D	07/13/2022	
Z1A-10-SC_6.5-8.5	22G0019-10	NT1022071418.D	07/13/2022	
Z1A-10-SC_3.5-5.5	22G0019-09	NT1022071415.D	07/13/2022	
Matrix Spike Dup	BKG0069-MSD1	NT1022071417.D	07/13/2022	
OCM-1-MS	22G0019-13	NT1022071420.D	07/13/2022	



CLEANUP BENCH SHEET

CKG0061

Matrix: Solid Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1 Check Standard: CKD0132-GPC2 Printed: 7/13/2022 12:14:21PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22G0019-15	A	OCM-2-MS	A	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	7/13/2022	JBW	
22G0019-13	A	OCM-1-MS	A	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	7/13/2022	JBW	
22G0019-08	A	Z1A-7-SC_4.5-6.5	A	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	7/13/2022	JBW	
22G0019-09	A	Z1A-10-SC_3.5-5.5	A	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	7/13/2022	JBW	
22G0019-10	A	Z1A-10-SC_6.5-8.5	A	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	7/13/2022	JBW	
22G0019-11	A	Z1A-11-SC_4.0-6.0	A	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	7/13/2022	JBW	
22G0019-02	A	Z1A-1-SC_7.5-9.5	A	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	7/13/2022	JBW	
22G0019-01	A	Z1A-1-SC_5.5-7.5	A	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	7/13/2022	JBW	
22G0019-03	A	Z1A-2-SC_3.5-5.5	A	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	7/13/2022	JBW	
22G0019-04	A	Z1A-4-SC_3.5-5.5	A	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	7/13/2022	JBW	
22G0019-05	A	Z1A-4-SC_6.5-8.5	A	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	7/13/2022	JBW	
22G0019-06	A	Z1A-5-SC_2.5-4.5	A	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	7/13/2022	JBW	
22G0019-07	A	Z1A-7-SC_2.5-4.5	A	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	7/13/2022	JBW	
BKG0069-MSD1	-	Matrix Spike Dup	-	1	1	-	7/13/2022	JBW	
BKG0069-MS1	-	Matrix Spike	-	1	1	-	7/13/2022	JBW	
BKG0069-BLK1	-	Blank	-	1	1	-	7/13/2022	JBW	
BKG0069-BS1	-	LCS	-	1	1	-	7/13/2022	JBW	
BKG0069-BSD1	-	LCS Dup	-	1	1	-	7/13/2022	JBW	



Form I
METHOD BLANK DATA SHEET
EPA 8270E

Blank

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0019</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Matrix:	<u>Solid</u>	Laboratory ID:	<u>BKG0069-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>07/07/22 10:01</u>
Solids:		Preparation:	<u>EPA 3546 (Microwave)</u>
Batch:	<u>BKG0069</u>	Sequence:	<u>SKG0139</u>
Instrument:	<u>NT10</u>	Column:	<u>ZB-5MSi</u>
		File ID:	<u>NT1022071404.D</u>
		Analyzed:	<u>07/14/22 15:39</u>
		Initial/Final:	<u>10 g / 1 mL</u>
		Calibration:	<u>FF00062</u>
		Cleanups:	<u>GPC</u>

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
91-20-3	Naphthalene	1	4.2	U	4.2	20.0
91-57-6	2-Methylnaphthalene	1	4.5	U	4.5	20.0
83-32-9	Acenaphthene	1	5.2	U	5.2	20.0
87-86-5	Pentachlorophenol	1	31.3	U	31.3	100
85-01-8	Phenanthrene	1	8.7	U	8.7	20.0
206-44-0	Fluoranthene	1	6.1	U	6.1	20.0
56-55-3	Benzo(a)anthracene	1	6.0	U	6.0	20.0
218-01-9	Chrysene	1	6.1	U	6.1	20.0
205-99-2	Benzo(b)fluoranthene	1	7.0	U	7.0	20.0
207-08-9	Benzo(k)fluoranthene	1	5.0	U	5.0	20.0
50-32-8	Benzo(a)pyrene	1	4.2	U	4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	14.7	U	14.7	20.0
53-70-3	Dibenzo(a,h)anthracene	1	17.2	U	17.2	20.0
90-12-0	1-Methylnaphthalene	1	5.3	U	5.3	20.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorophenol	750.00	627	83.6	27 - 120	
Phenol-d5	750.00	538	71.8	29 - 120	
2-Chlorophenol-d4	750.00	792	106	31 - 120	
1,2-Dichlorobenzene-d4	500.00	597	119	32 - 120	
Nitrobenzene-d5	500.00	560	112	30 - 120	
2-Fluorobiphenyl	500.00	621	124	35 - 120	*
2,4,6-Tribromophenol	750.00	884	118	24 - 134	
p-Terphenyl-d14	500.00	610	122	37 - 120	*

Data File: \\target\share\chem3\nt10.1\20220714.6\NT1022071404.D

Date: 14-JUL-2022 15:39

Client ID:

Sample Info: BK00069-BLK1

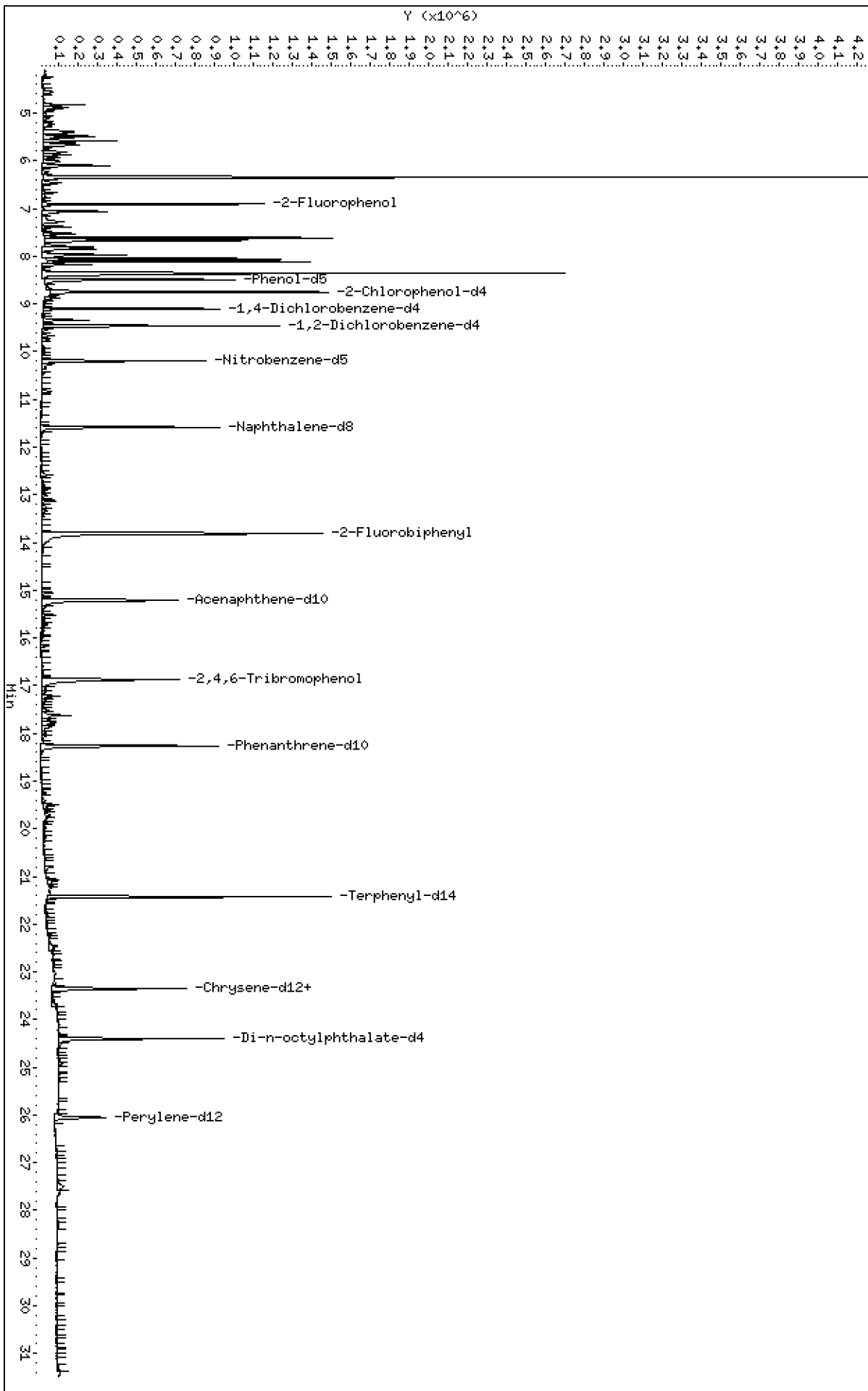
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20220714.6\NT1022071404.D



Date : 14-JUL-2022 15:39

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BLK1

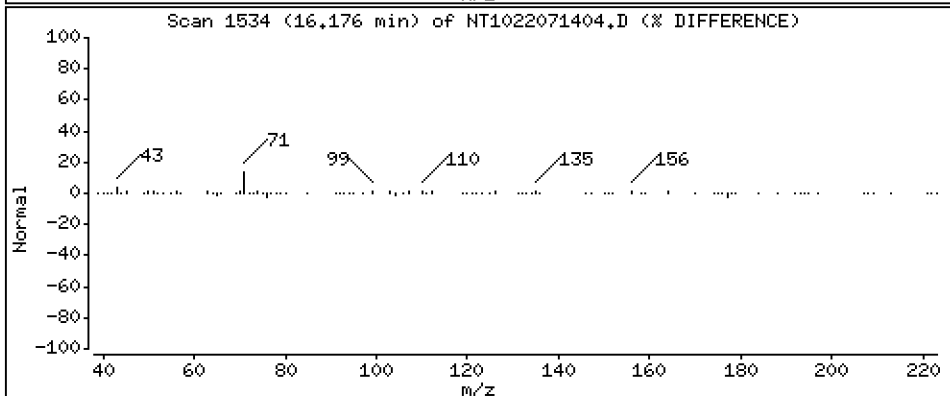
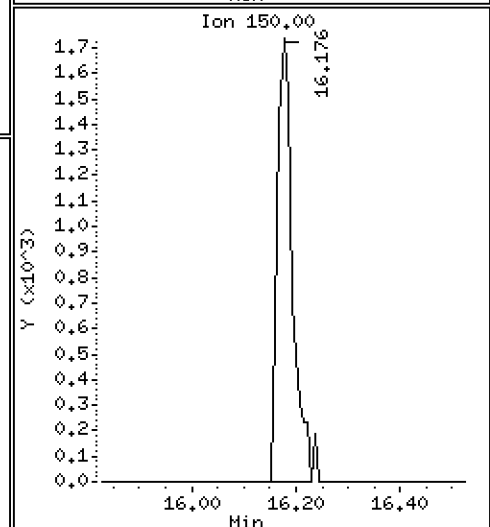
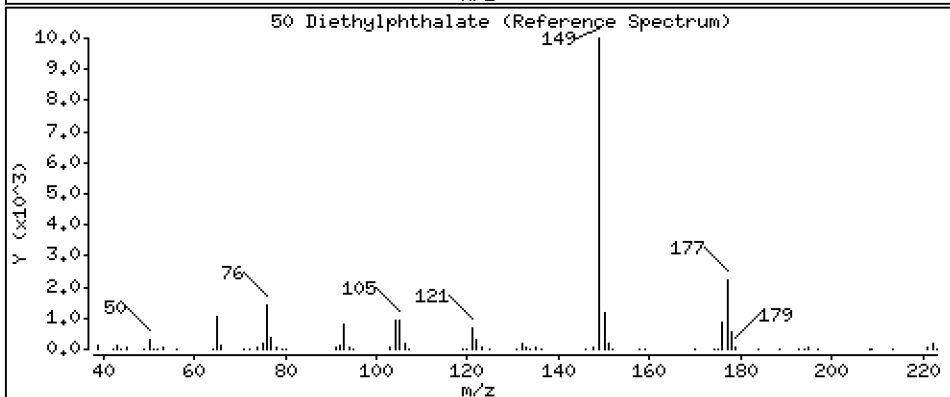
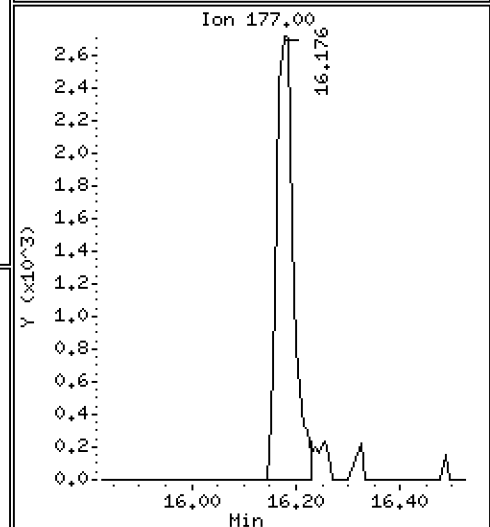
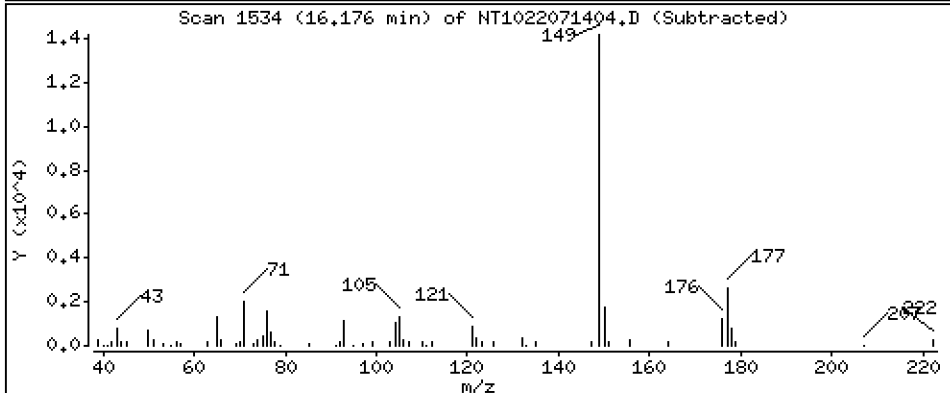
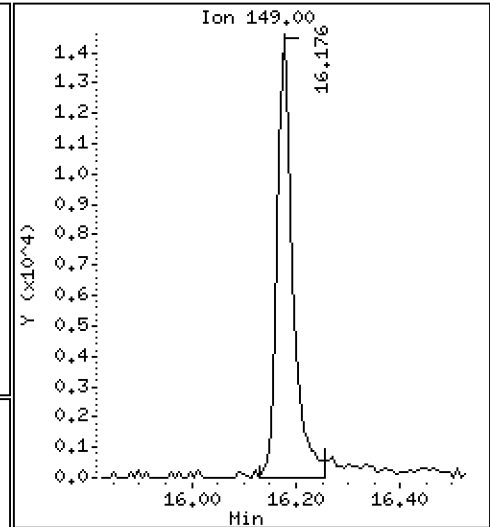
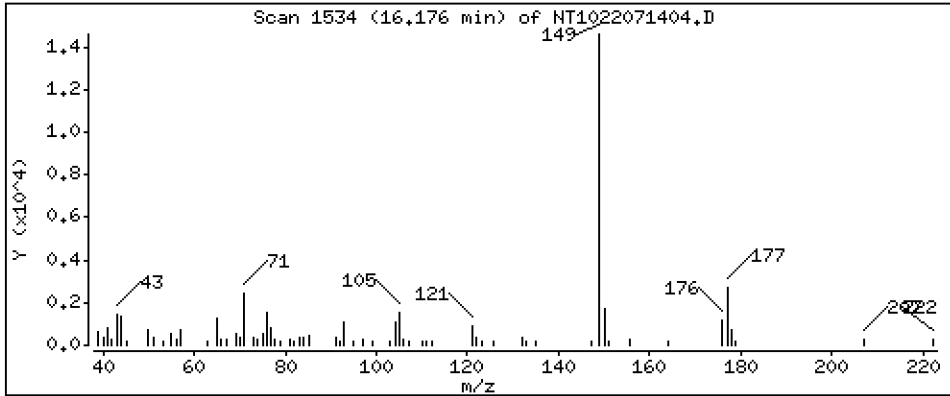
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2245 ug/mL



Date : 14-JUL-2022 15:39

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BLK1

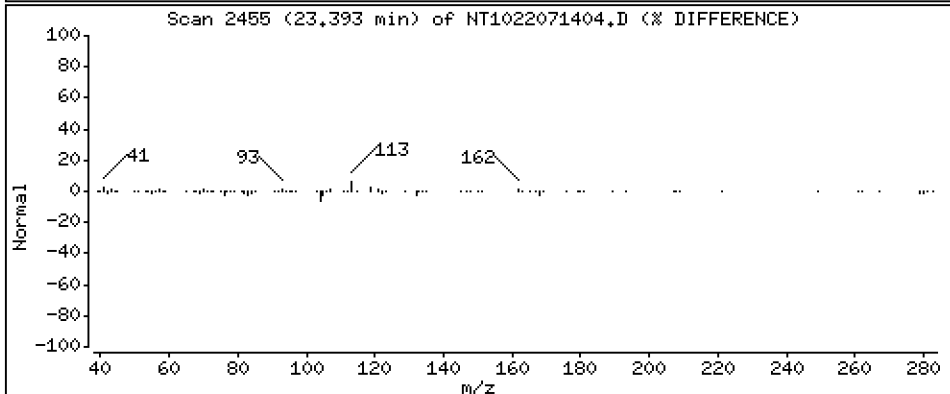
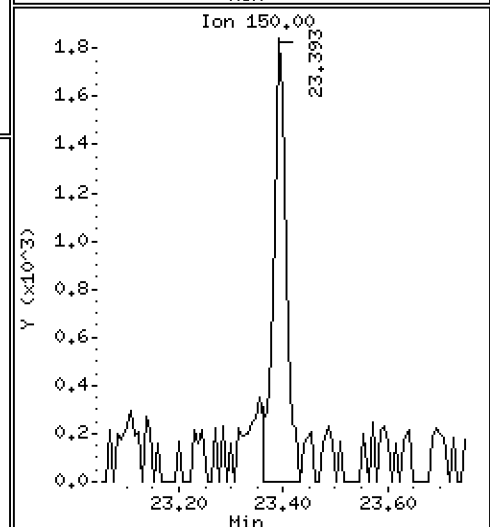
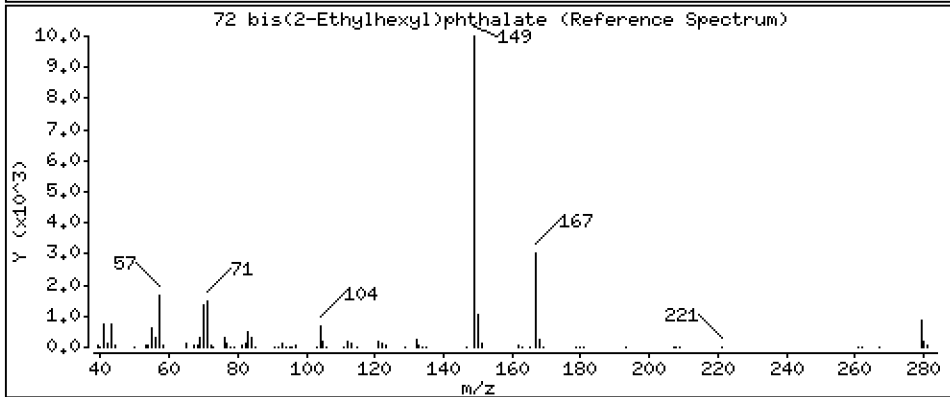
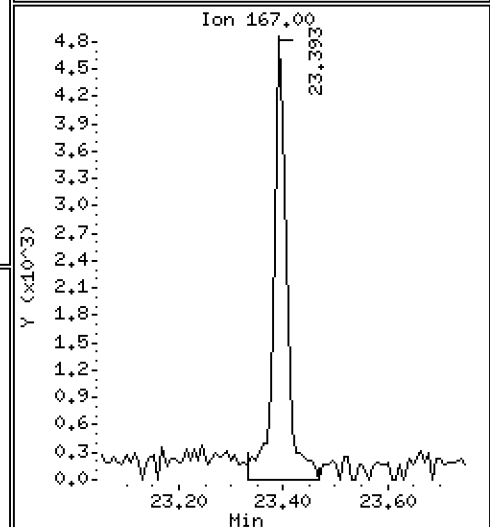
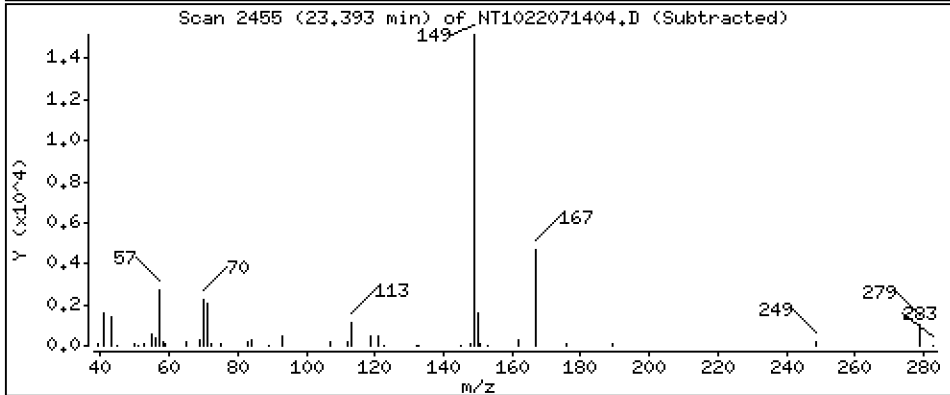
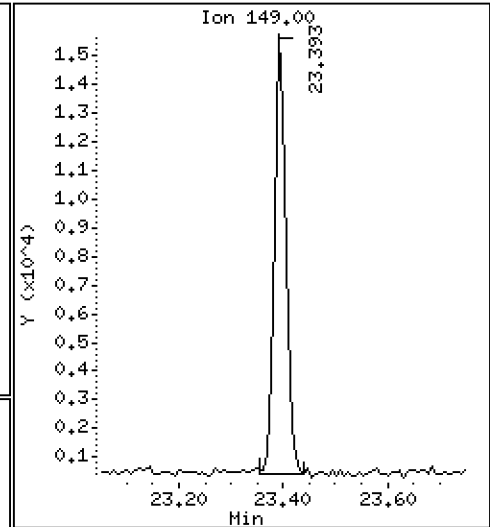
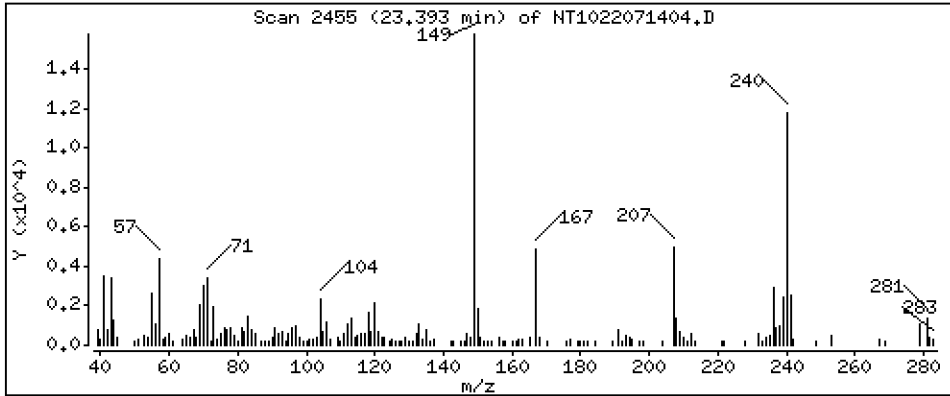
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,2994 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071404.D
 Lab Smp Id: BKG0069-BLK1
 Inj Date : 14-JUL-2022 15:39
 Operator : VTS
 Smp Info : BKG0069-BLK1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 19-Jul-2022 13:58 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.906	6.906	(0.759)	579098	6.27320	6.273
\$ 2 Phenol-d5	99		8.490	8.490	(0.933)	737273	5.38264	5.383
3 Phenol	94		Compound Not Detected.					
\$ 5 2-Chlorophenol-d4	132		8.753	8.753	(0.962)	744931	7.91963	7.920
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.101	9.101	(1.000)	252806	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.458	9.466	(1.039)	346185	5.97275	5.973
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		10.196	10.195	(0.880)	531278	5.60120	5.601
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.589	11.589	(1.000)	891403	4.00000	
28 Naphthalene	128		Compound Not Detected.					
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		Compound Not Detected.					
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====	=====	=====	=====	=====	=====	=====	=====
34 2,4,6-Trichlorophenol	196					Compound Not Detected.		
35 2,4,5-Trichlorophenol	196					Compound Not Detected.		
\$ 36 2-Fluorobiphenyl	172		13.809	13.809	(0.908)	1219835	6.21168	6.212
37 2-Chloronaphthalene	162					Compound Not Detected.		
38 2-Nitroaniline	65					Compound Not Detected.		
39 Dimethylphthalate	163					Compound Not Detected.		
40 Acenaphthylene	152					Compound Not Detected.		
41 2,6-Dinitrotoluene	165					Compound Not Detected.		
* 42 Acenaphthene-d10	164		15.210	15.210	(1.000)	433957	4.00000	
43 3-Nitroaniline	138					Compound Not Detected.		
44 Acenaphthene	153					Compound Not Detected.		
45 2,4-Dinitrophenol	184					Compound Not Detected.		
46 Dibenzofuran	168					Compound Not Detected.		
47 4-Nitrophenol	109					Compound Not Detected.		
48 2,4-Dinitrotoluene	165					Compound Not Detected.		
50 Diethylphthalate	149		16.176	16.176	(1.064)	29306	0.22449	0.2245
49 Fluorene	166					Compound Not Detected.		
51 4-Chlorophenyl-phenylether	204					Compound Not Detected.		
52 4-Nitroaniline	138					Compound Not Detected.		
53 4,6-Dinitro-2-methylphenol	198					Compound Not Detected.		
54 N-Nitrosodiphenylamine	169					Compound Not Detected.		
\$ 55 2,4,6-Tribromophenol	330		16.878	16.870	(1.110)	175268	8.84437	8.844
56 4-Bromophenyl-phenylether	248					Compound Not Detected.		
57 Hexachlorobenzene	284					Compound Not Detected.		
58 Pentachlorophenol	266					Compound Not Detected.		
* 59 Phenanthrene-d10	188		18.269	18.269	(1.000)	787783	4.00000	
60 Phenanthrene	178					Compound Not Detected.		
61 Anthracene	178					Compound Not Detected.		
62 Carbazole	167					Compound Not Detected.		
63 Di-n-butylphthalate	149					Compound Not Detected.		
64 Fluoranthene	202					Compound Not Detected.		
65 Pyrene	202					Compound Not Detected.		
\$ 66 Terphenyl-d14	244		21.426	21.434	(0.917)	947388	6.10406	6.104
67 Butylbenzylphthalate	149					Compound Not Detected.		
68 Benzo(a)anthracene	228					Compound Not Detected.		
* 69 Chrysene-d12	240		23.354	23.362	(1.000)	444754	4.00000	
70 3,3'-Dichlorobenzidine	252					Compound Not Detected.		
71 Chrysene	228					Compound Not Detected.		
72 bis(2-Ethylhexyl)phthalate	149		23.393	23.400	(0.959)	22521	0.29944	0.2994
* 134 Di-n-octylphthalate-d4	153		24.399	24.407	(1.000)	680438	4.00000	
73 Di-n-octylphthalate	149					Compound Not Detected.		
74 Benzo(b)fluoranthene	252					Compound Not Detected.		
75 Benzo(k)fluoranthene	252					Compound Not Detected.		
76 Benzo(a)pyrene	252					Compound Not Detected.		
* 77 Perylene-d12	264		26.056	26.064	(1.000)	234441	4.00000	
78 Indeno(1,2,3-cd)pyrene	276					Compound Not Detected.		
79 Dibenzo(a,h)anthracene	278					Compound Not Detected.		
80 Benzo(g,h,i)perylene	276					Compound Not Detected.		
90 N-Nitrosodimethylamine	74					Compound Not Detected.		
91 Aniline	93					Compound Not Detected.		
93 Benzidine	184					Compound Not Detected.		
103 Pyridine	79					Compound Not Detected.		
105 1-methylnaphthalene	142					Compound Not Detected.		
111 Azobenzene (1,2-DP-Hydrazine)	77					Compound Not Detected.		

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071404.D Calibration Time: 14:12
 Lab Smp Id: BKG0069-BLK1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	252806	29.09
27 Naphthalene-d8	626038	313019	1252076	891403	42.39
42 Acenaphthene-d10	366612	183306	733224	433957	18.37
59 Phenanthrene-d10	635137	317569	1270274	787783	24.03
69 Chrysene-d12	270778	135389	541556	444754	64.25
134 Di-n-octylphthala	507031	253516	1014062	680438	34.20
77 Perylene-d12	170107	85054	340214	234441	37.82

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.10	0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.59	0.00
42 Acenaphthene-d10	15.21	14.71	15.71	15.21	0.00
59 Phenanthrene-d10	18.27	17.77	18.77	18.27	0.00
69 Chrysene-d12	23.36	22.86	23.86	23.35	-0.03
134 Di-n-octylphthala	24.41	23.91	24.91	24.40	-0.03
77 Perylene-d12	26.06	25.56	26.56	26.06	-0.03

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

REVIEW SUMMARY FOR FILE - NT1022071404.D

Lab ID: BKG0069-BLK1
nt10.i, ABN.m, 14-JUL-2022 15:39

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: NT1022071402.D

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

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



LCS / LCS DUPLICATE RECOVERY
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Matrix: Solid

Analyzed: 07/14/22 16:19

Batch: BKG0069

Laboratory ID: BKG0069-BS1

Preparation: EPA 3546 (Microwave)

Sequence Name: LCS

Initial/Final: 10 g / 1 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Naphthalene	500	393		78.7	43 - 120
2-Methylnaphthalene	500	430		85.9	43 - 120
Acenaphthene	500	426		85.1	45 - 120
Pentachlorophenol	1300	924		71.0	16 - 120
Phenanthrene	500	449		89.8	49 - 120
Fluoranthene	500	458		91.6	53 - 145
Benzo(a)anthracene	500	428		85.7	49 - 120
Chrysene	500	464		92.9	47 - 120
Benzo(b)fluoranthene	500	459		91.8	42 - 132
Benzo(k)fluoranthene	500	458		91.7	39 - 129
Benzo(a)pyrene	500	439		87.8	42 - 120
Indeno(1,2,3-cd)pyrene	500	393		78.5	42 - 163
Dibenzo(a,h)anthracene	500	408		81.7	30 - 133
1-Methylnaphthalene	500	422		84.3	42 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Naphthalene	500	434		86.9	9.92	30	43 - 120
2-Methylnaphthalene	500	459		91.8	6.62	30	43 - 120
Acenaphthene	500	458		91.7	7.45	30	45 - 120
Pentachlorophenol	1300	1230		94.9	28.8	30	16 - 120
Phenanthrene	500	481		96.1	6.76	30	49 - 120
Fluoranthene	500	488		97.6	6.33	30	53 - 145
Benzo(a)anthracene	500	454		90.7	5.76	30	49 - 120
Chrysene	500	497		99.4	6.82	30	47 - 120
Benzo(b)fluoranthene	500	503		101	9.06	30	42 - 132
Benzo(k)fluoranthene	500	481		96.3	4.92	30	39 - 129
Benzo(a)pyrene	500	481		96.3	9.26	30	42 - 120
Indeno(1,2,3-cd)pyrene	500	444		88.7	12.2	30	42 - 163
Dibenzo(a,h)anthracene	500	466		93.2	13.1	30	30 - 133
1-Methylnaphthalene	500	456		91.1	7.75	30	42 - 120

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10,1\20220714,6\NT1022071405.D

Date : 14-JUL-2022 16:19

Client ID:

Sample Info: BK00069-BS1

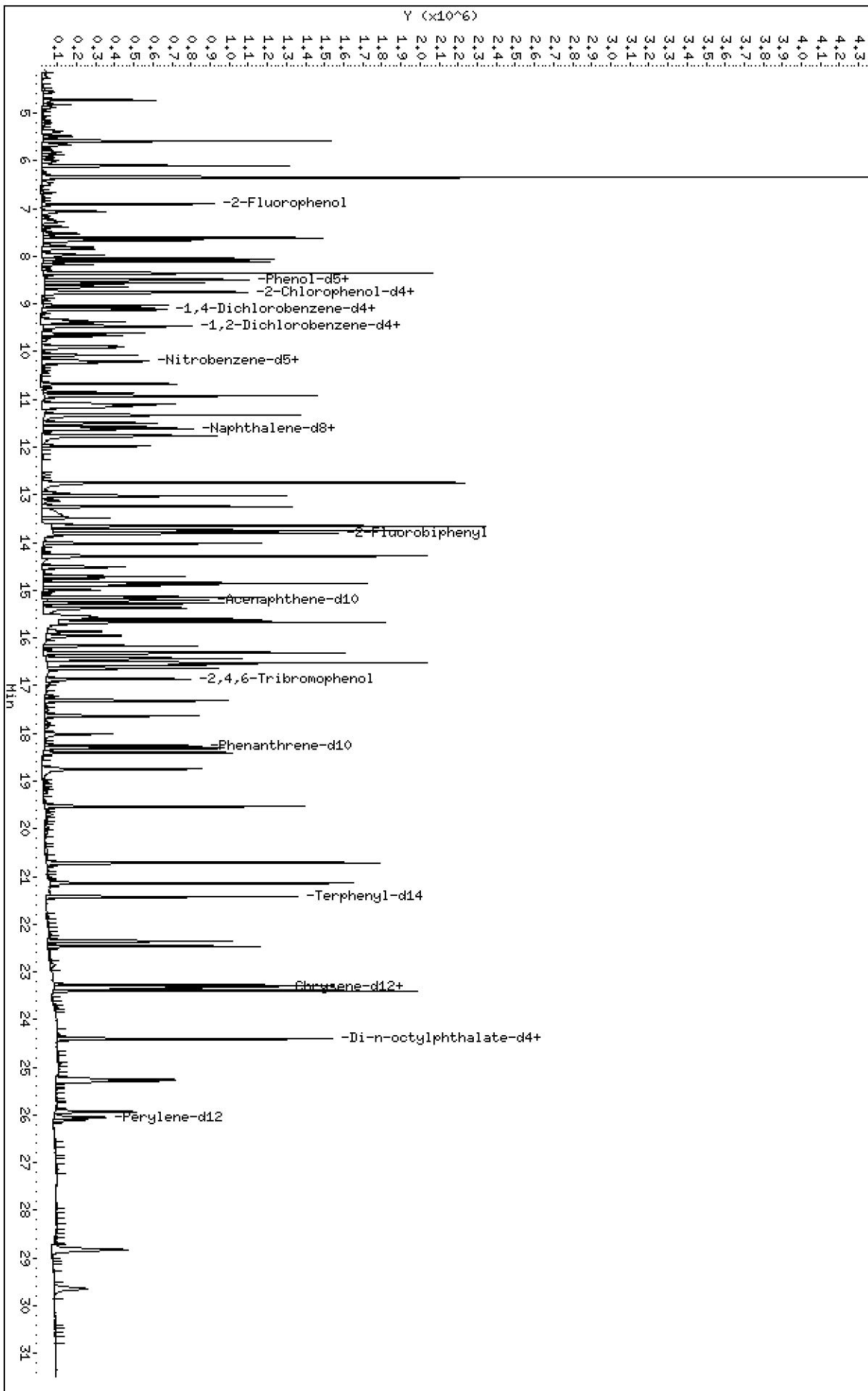
Column phase: ZB-5msi

Instrument: nt10,1

Operator: VTS

Column diameter: 0.25

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Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

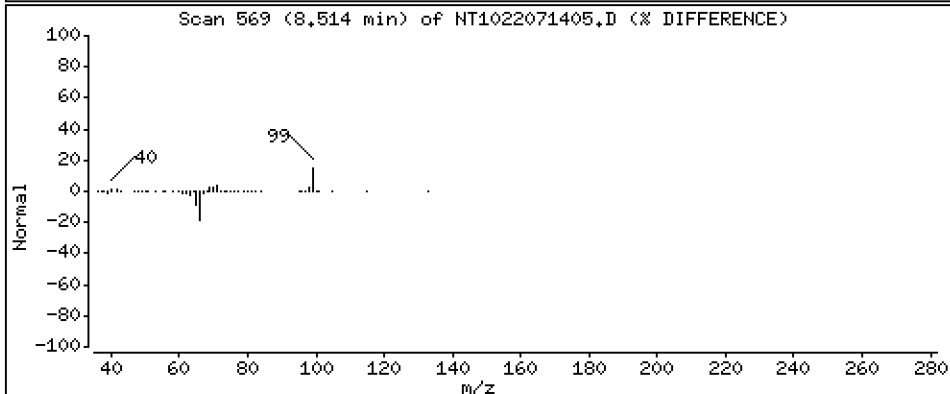
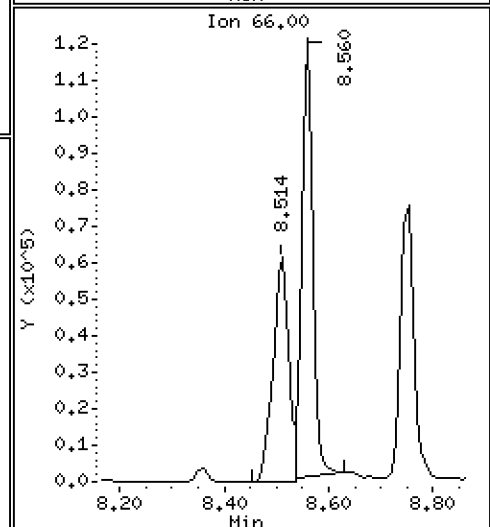
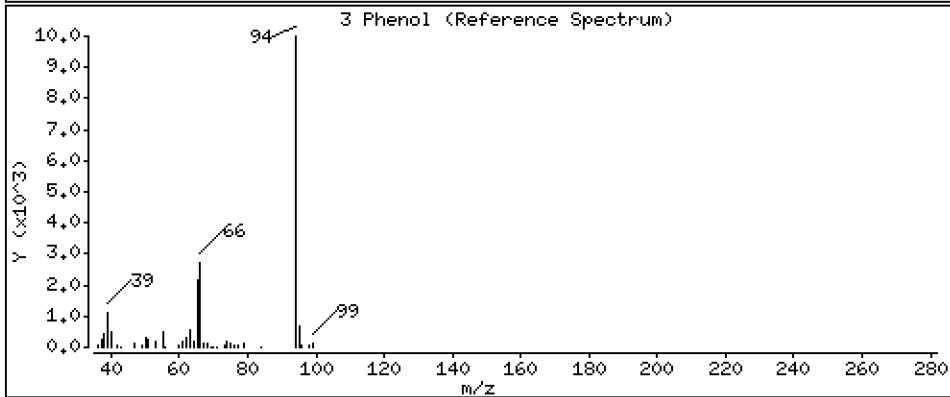
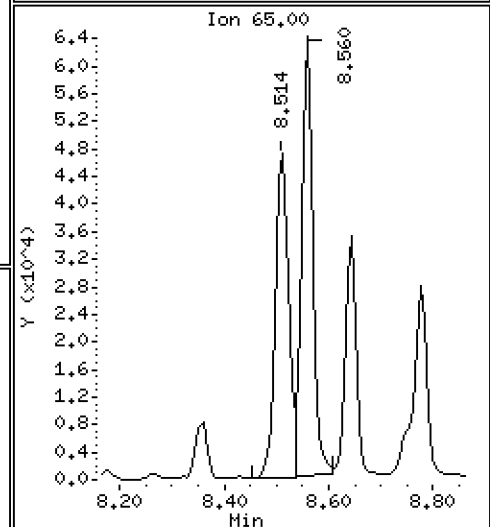
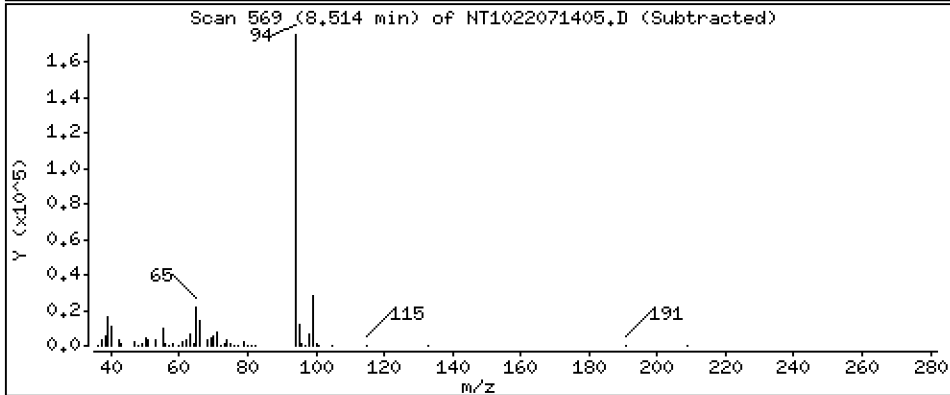
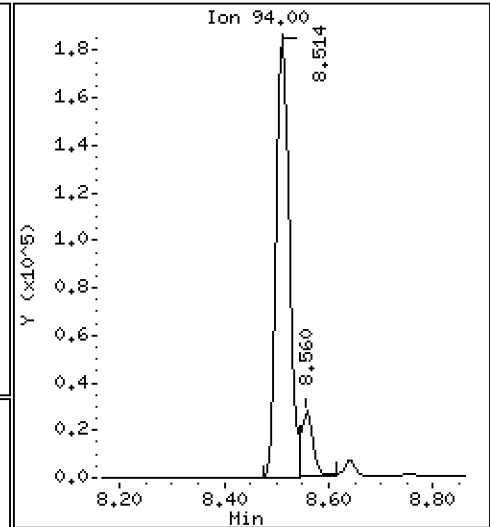
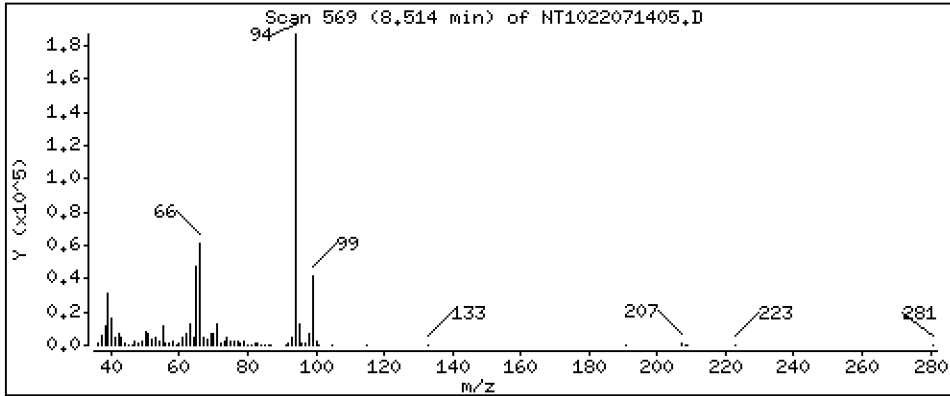
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,518 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

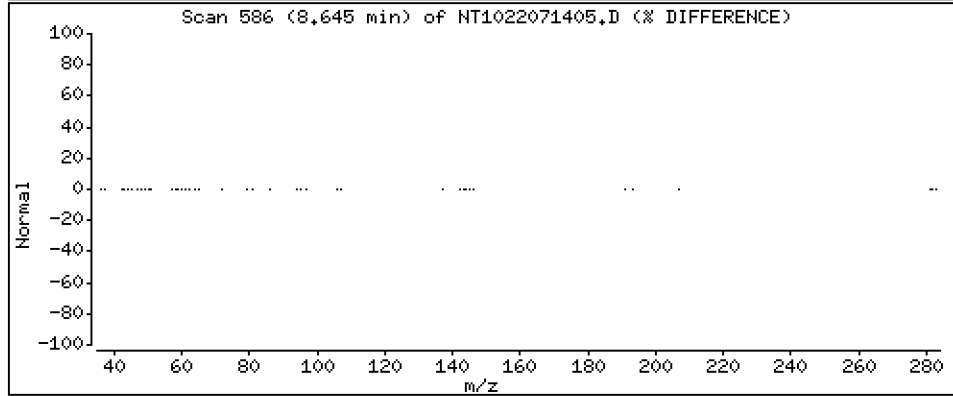
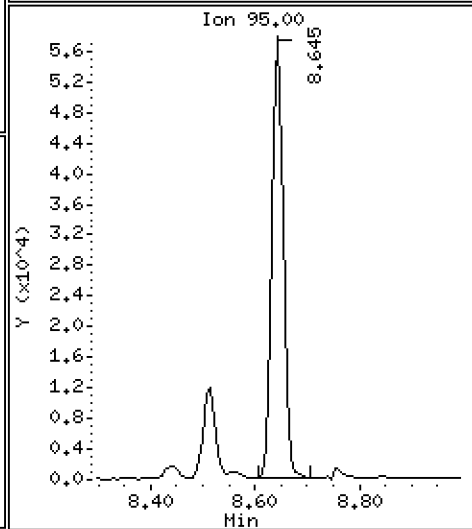
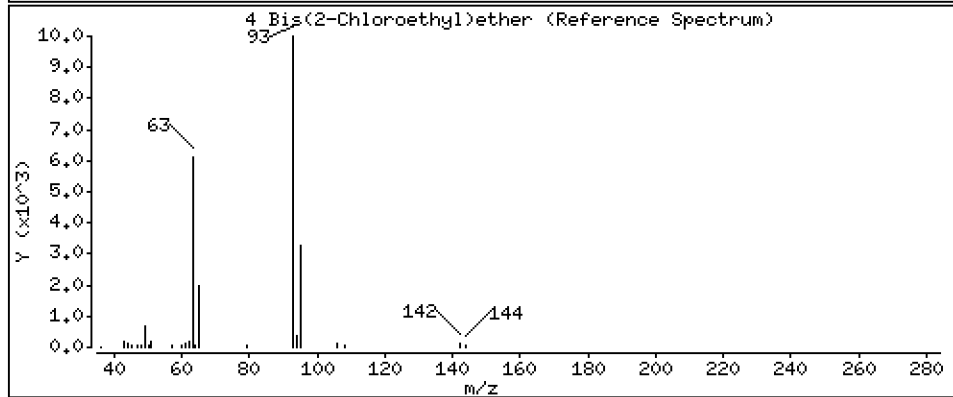
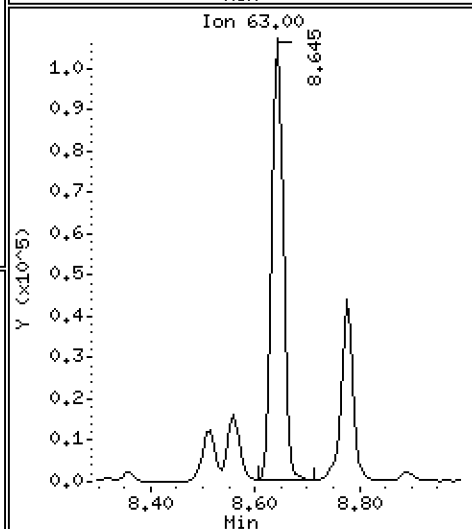
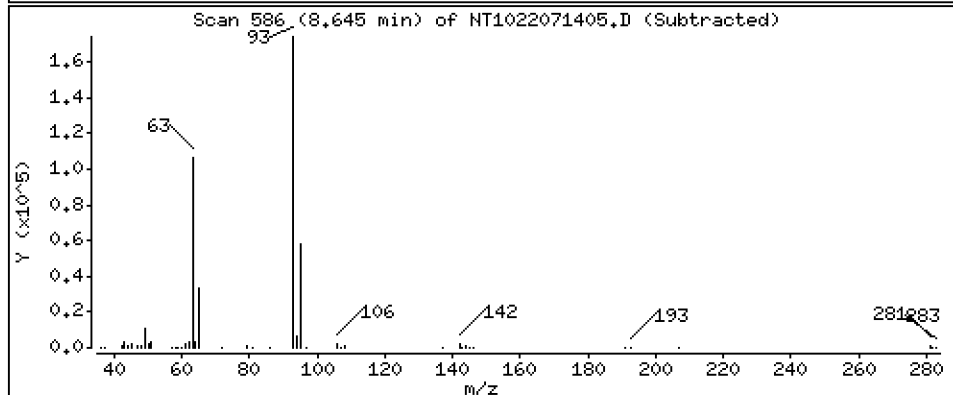
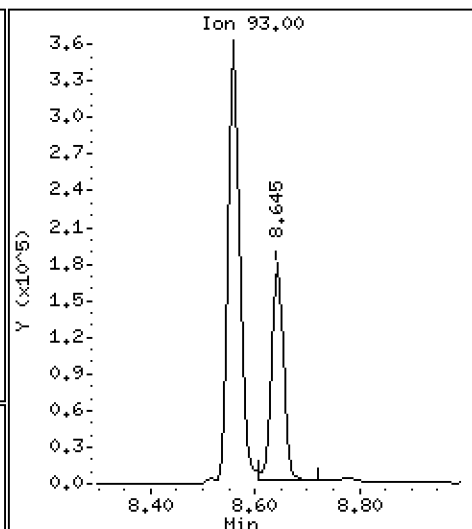
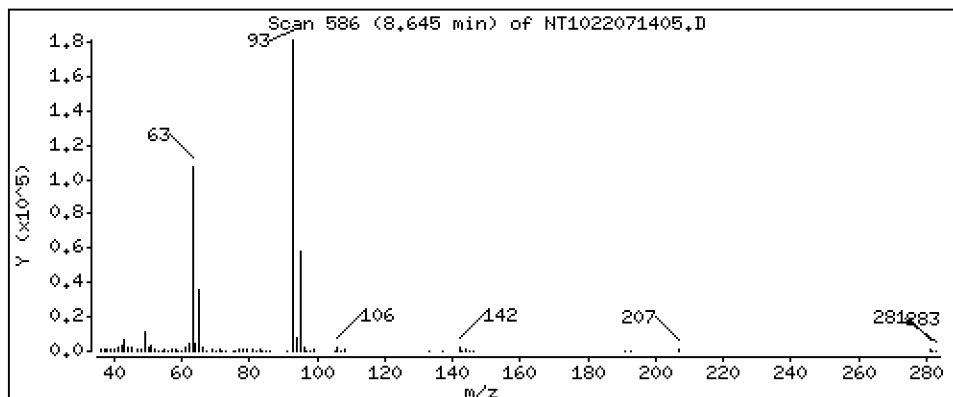
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,250 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

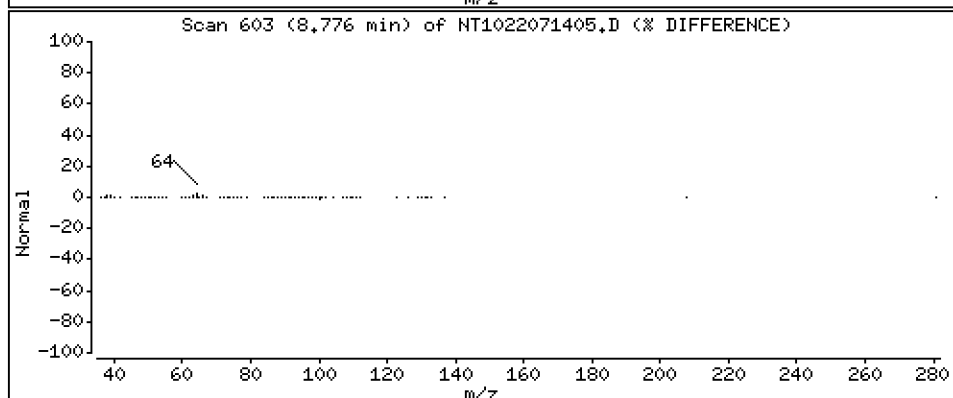
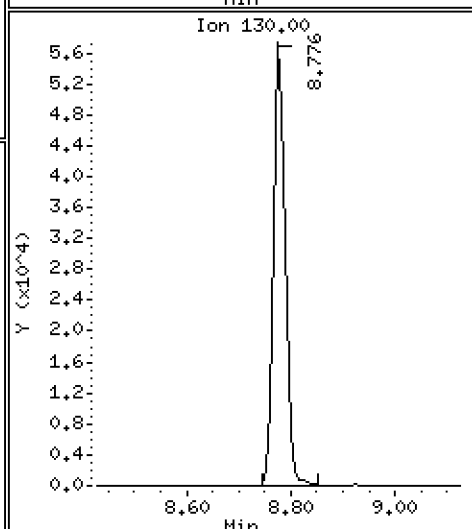
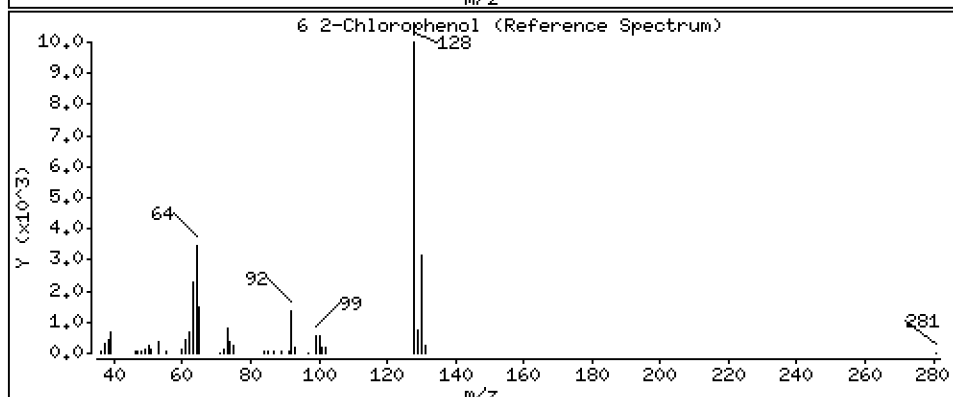
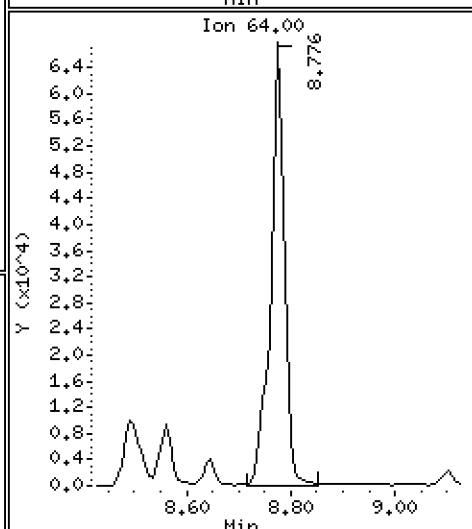
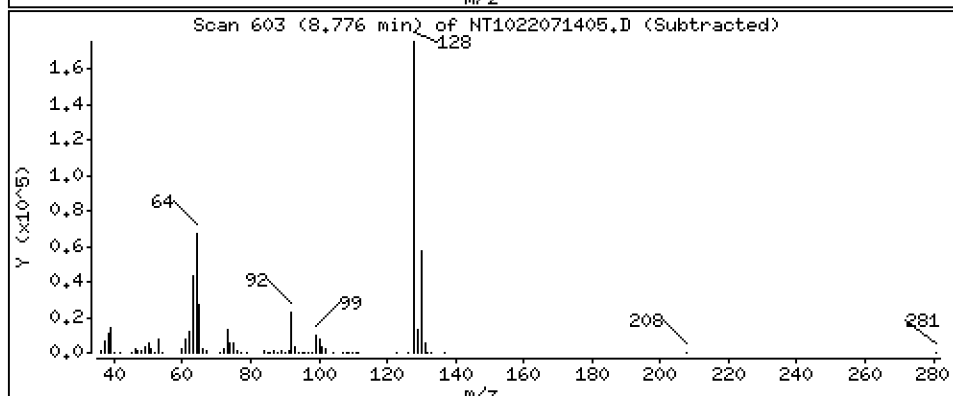
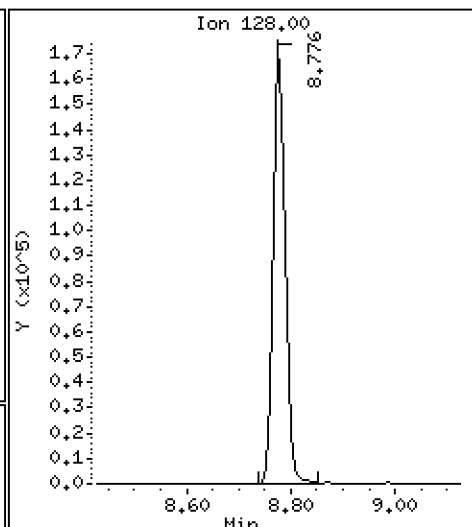
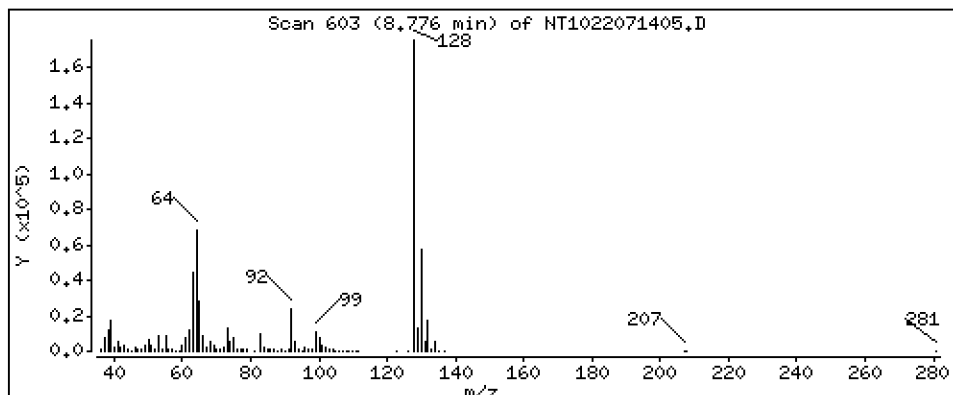
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 3,767 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

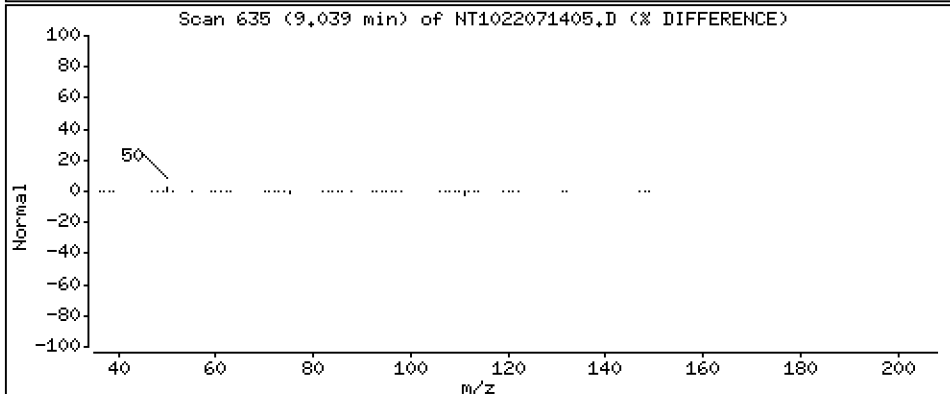
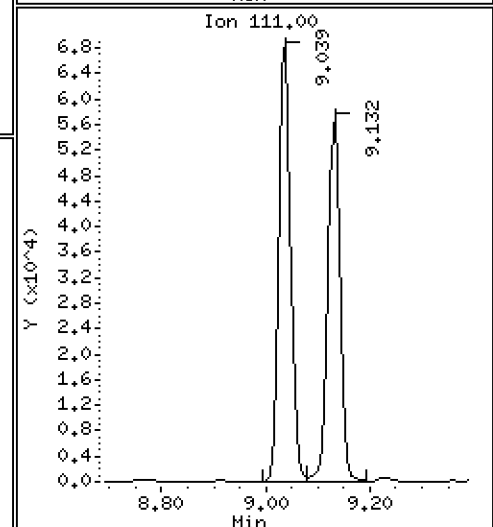
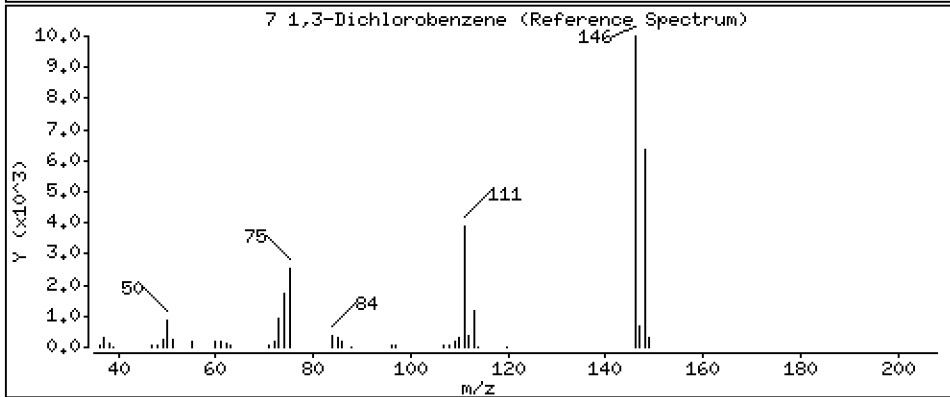
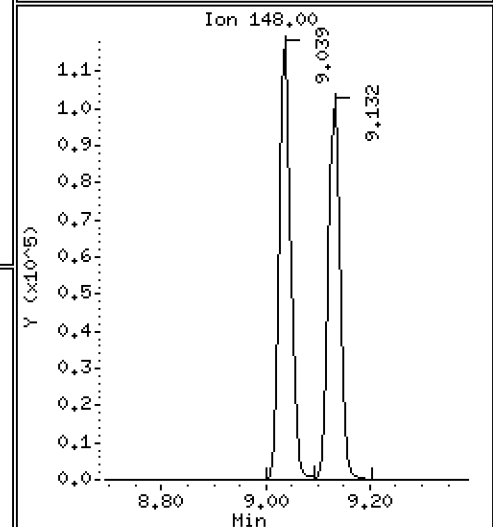
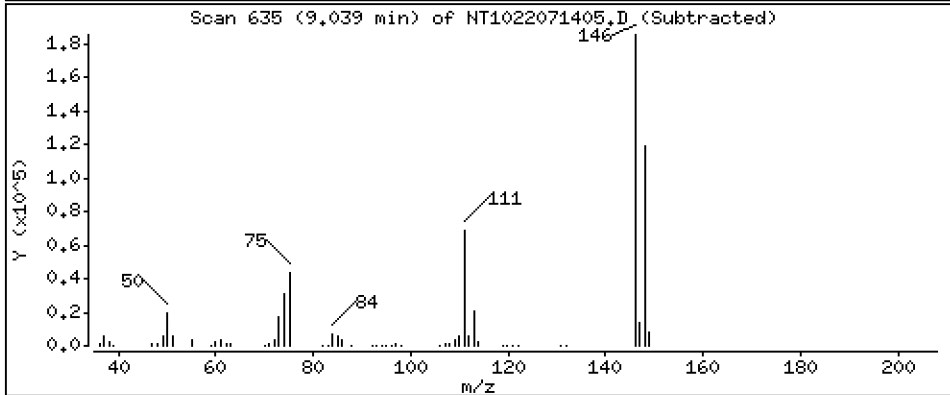
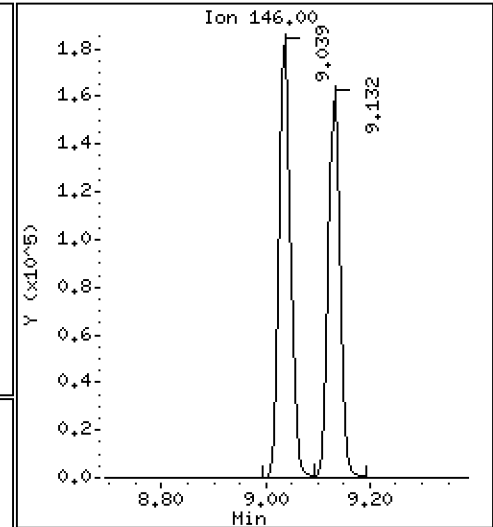
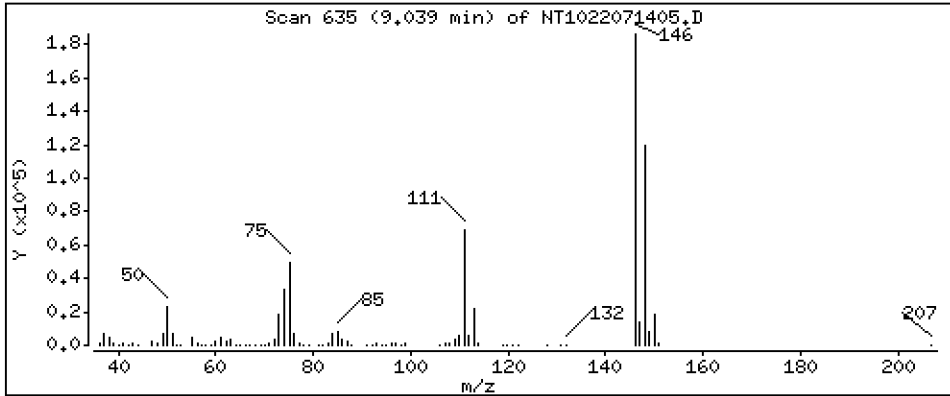
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 3,779 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

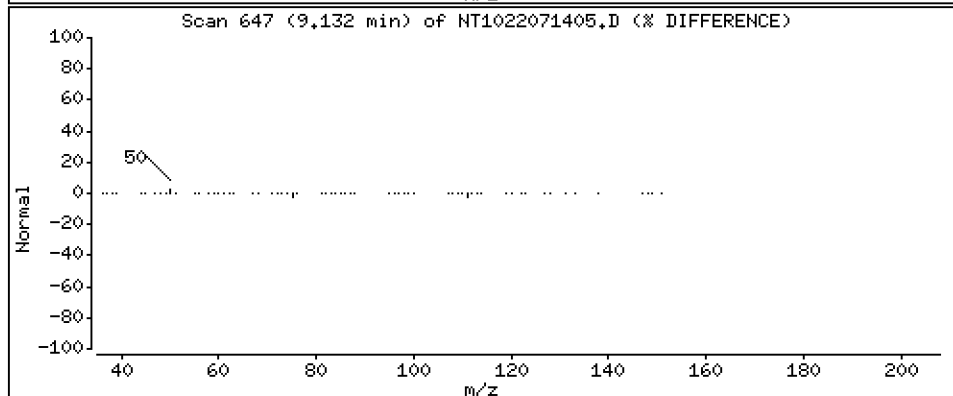
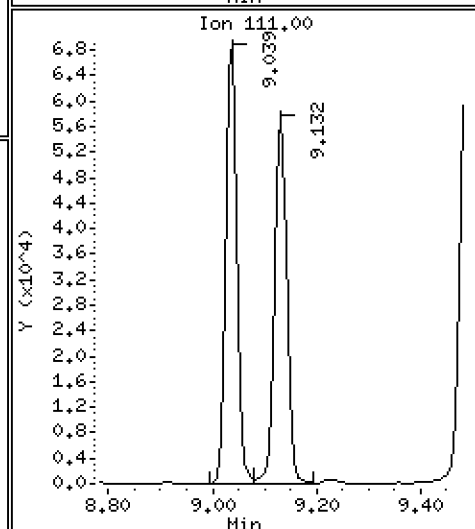
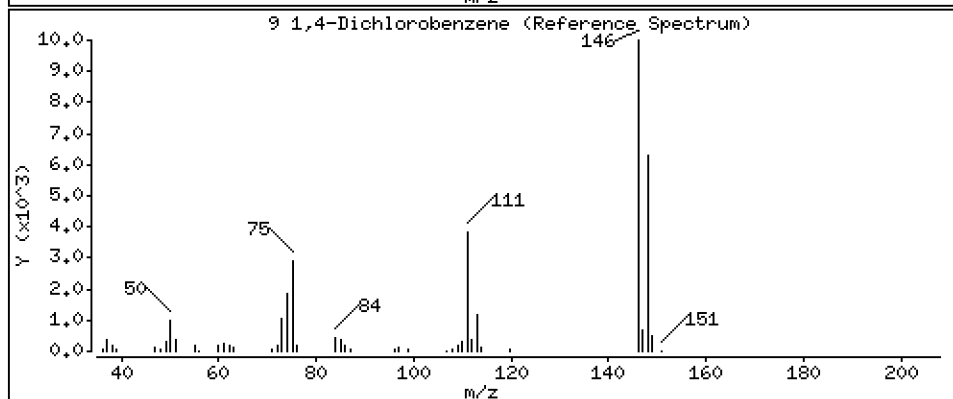
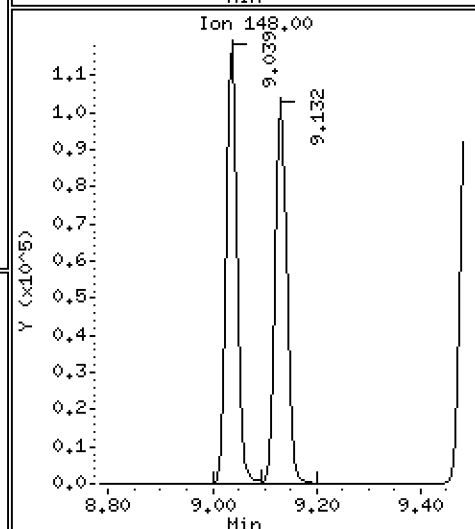
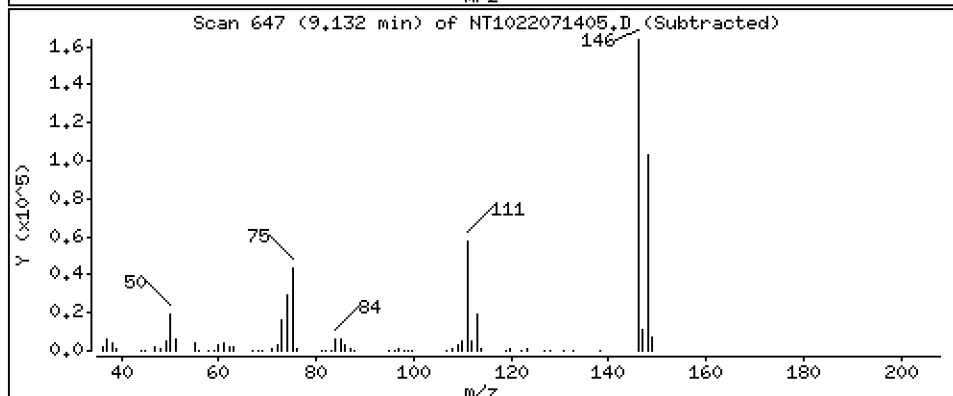
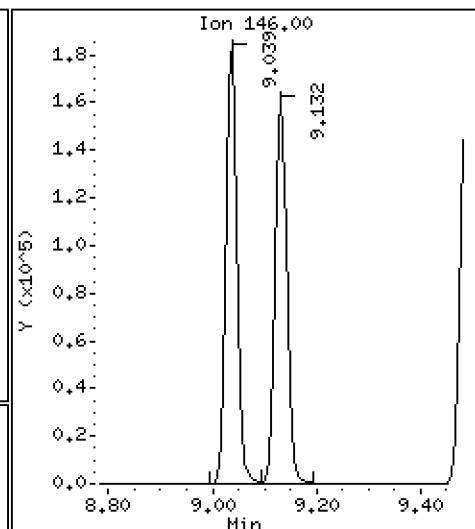
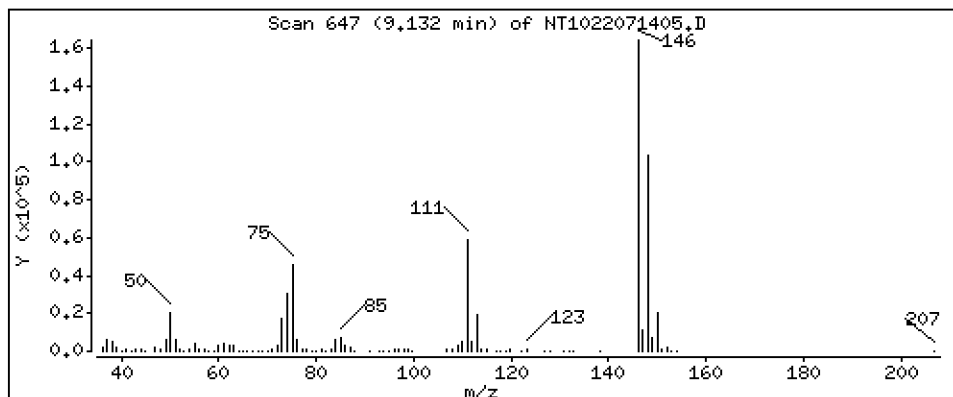
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,005 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

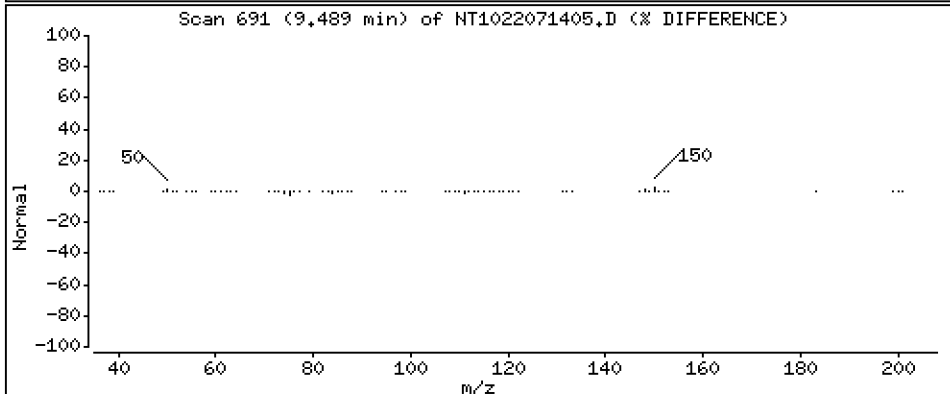
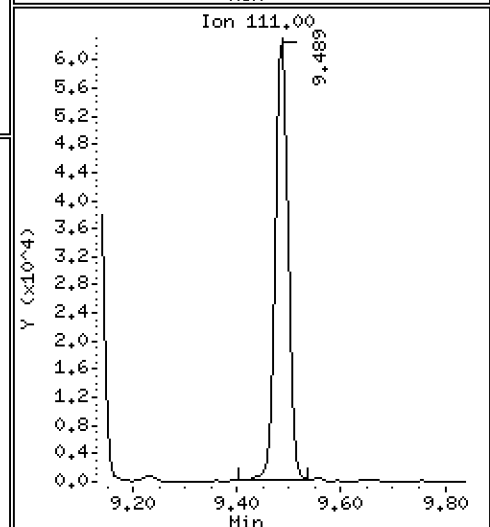
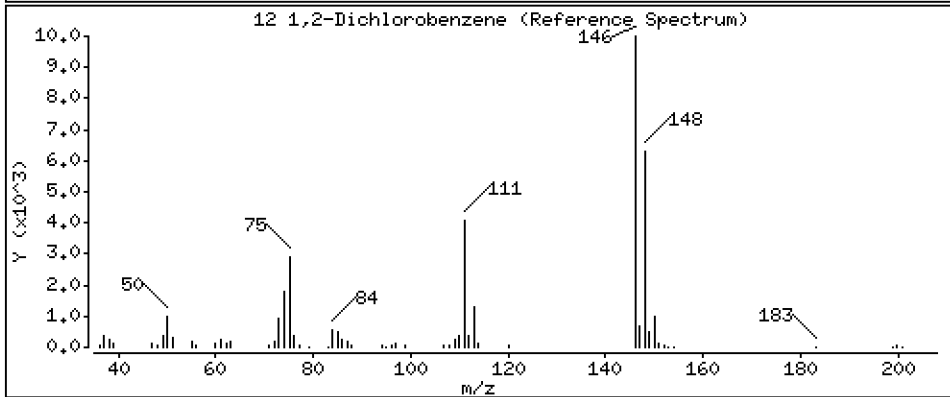
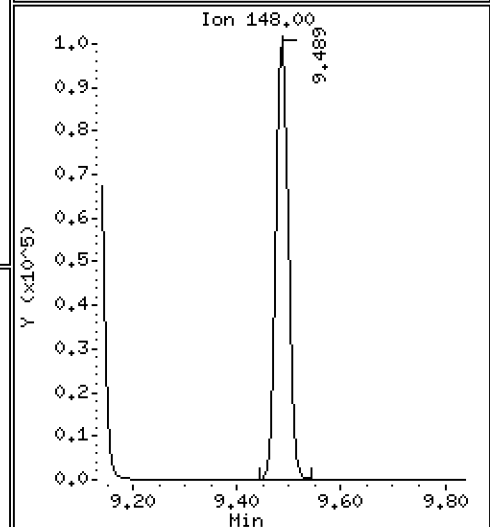
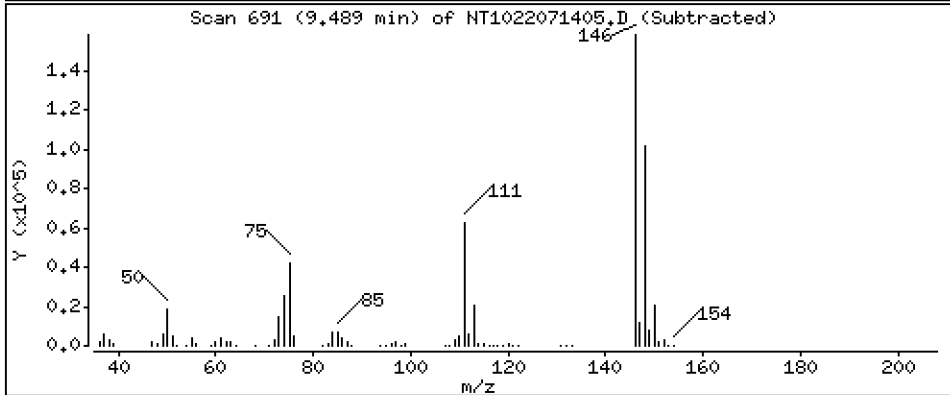
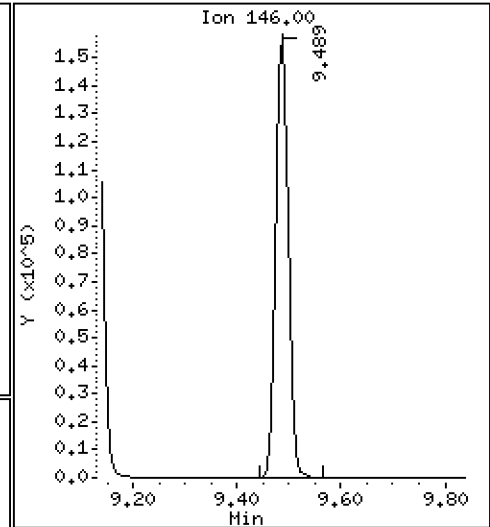
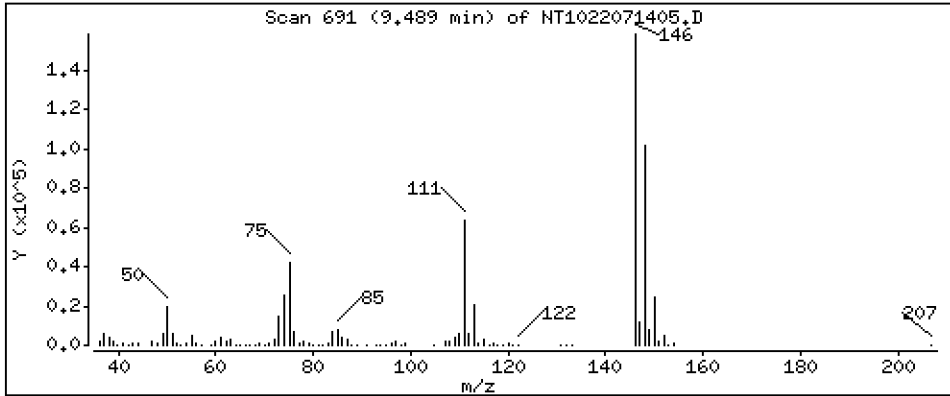
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 3,965 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

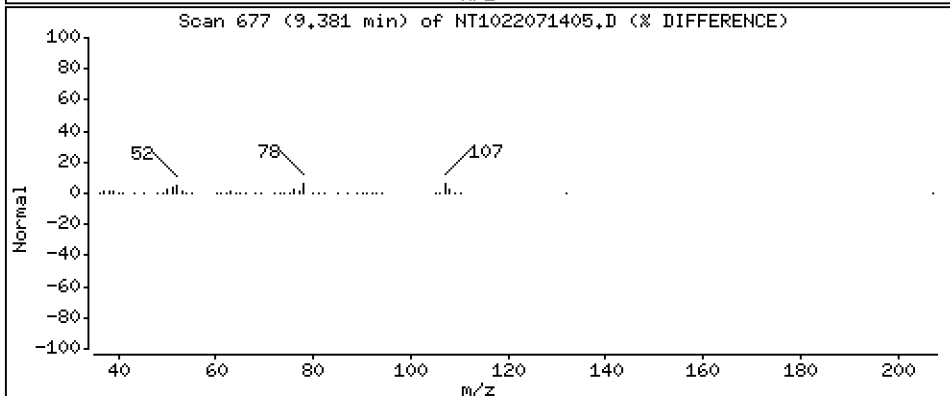
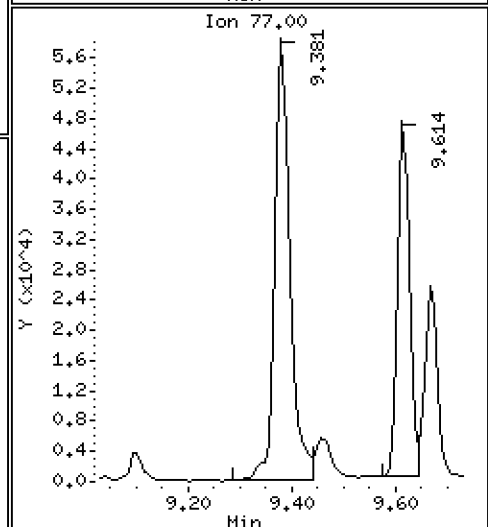
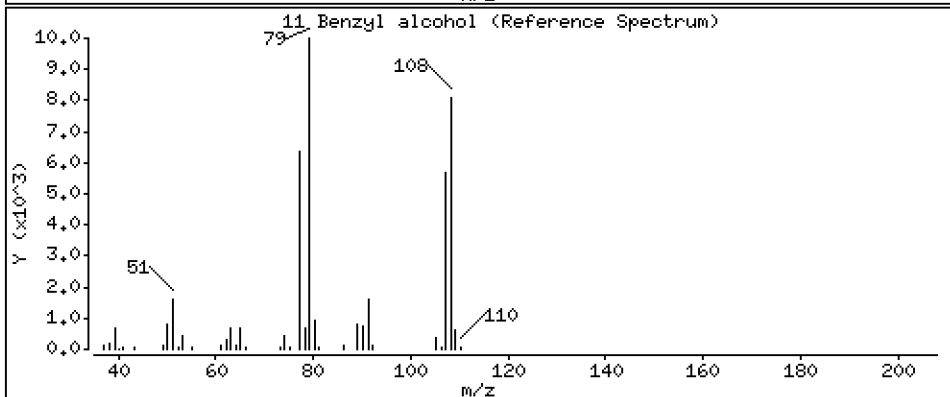
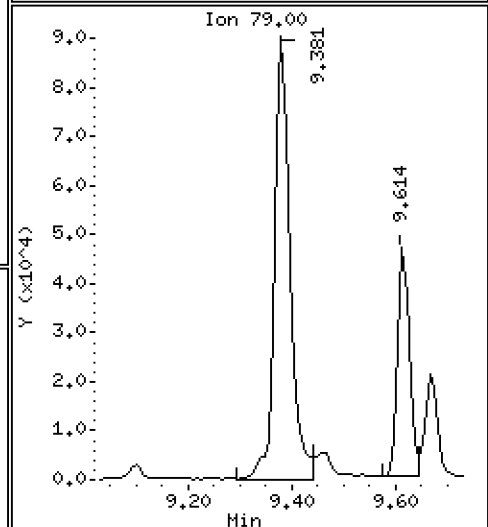
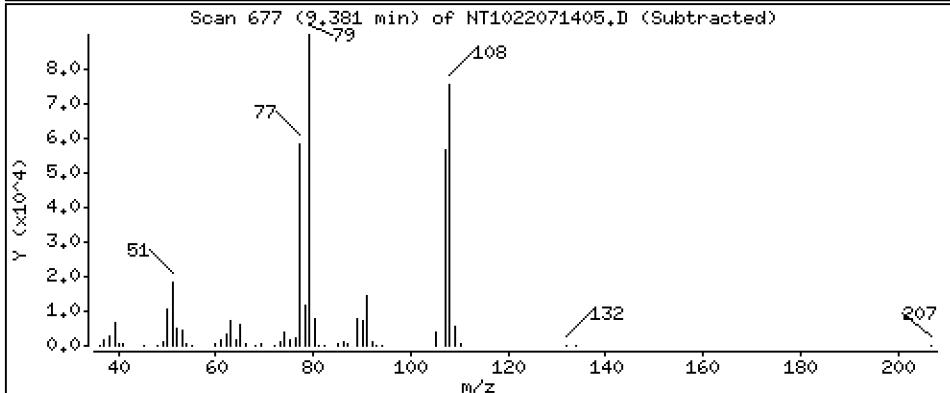
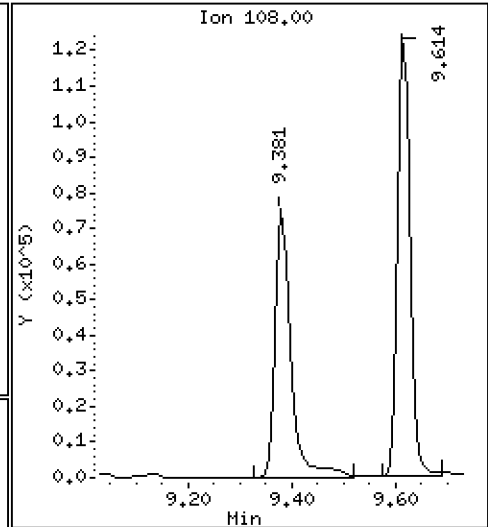
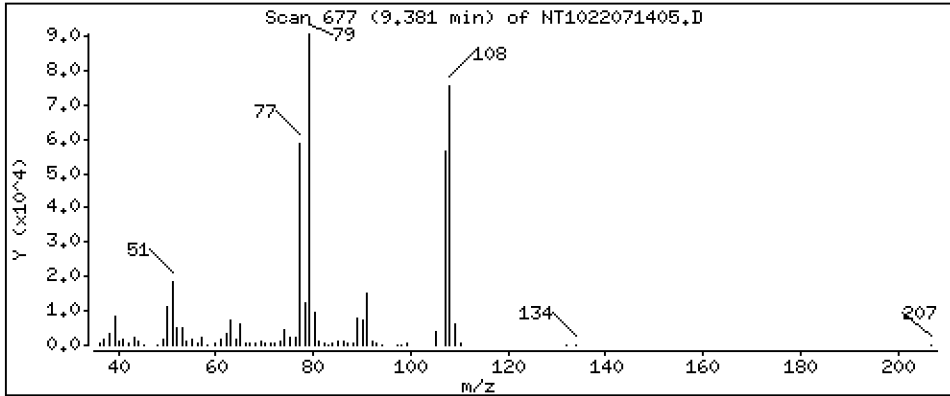
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 4,369 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

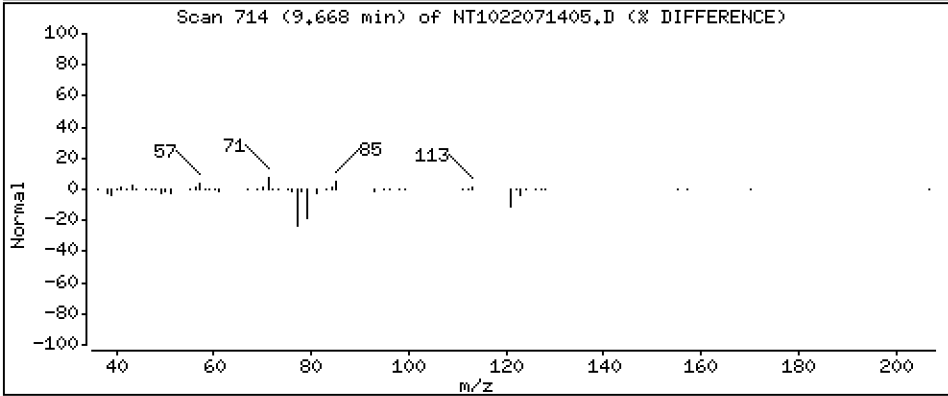
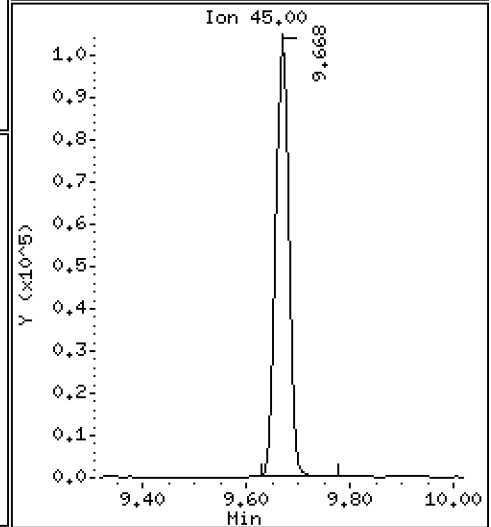
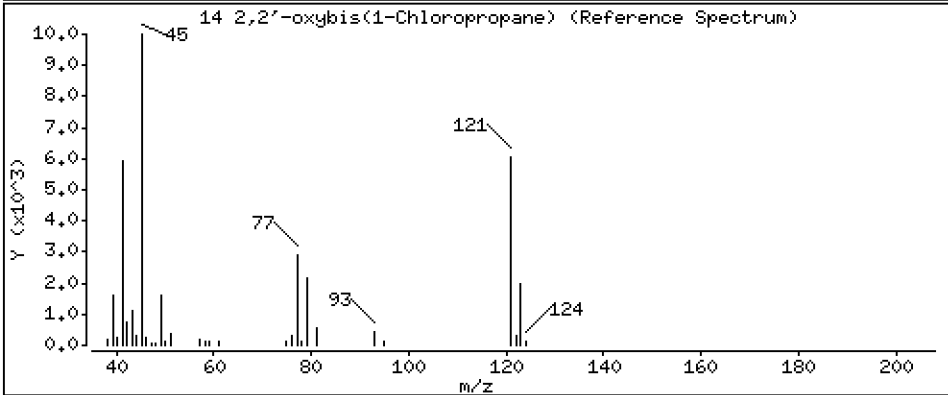
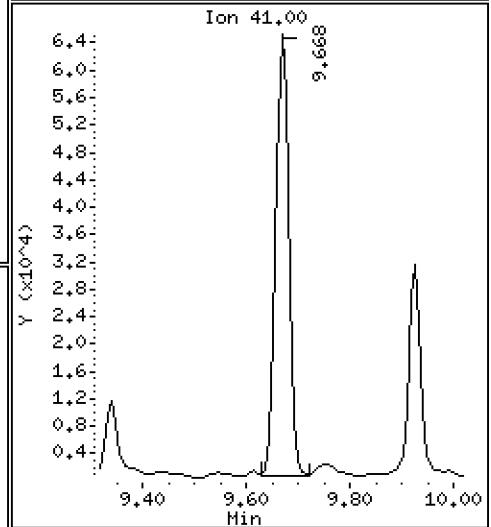
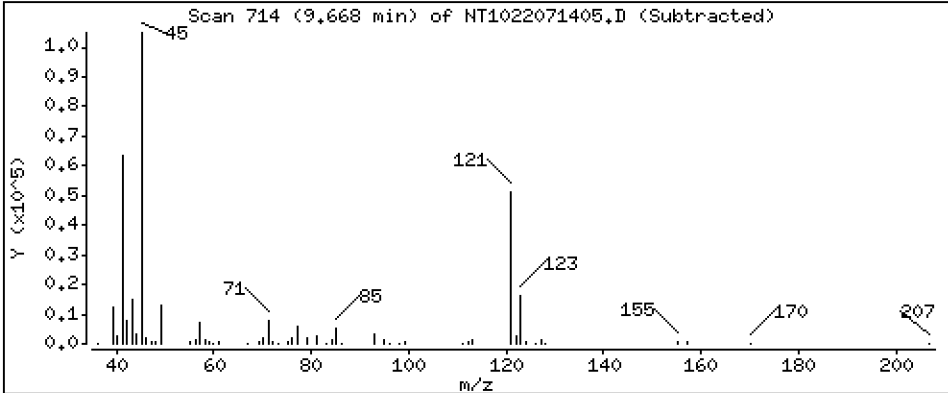
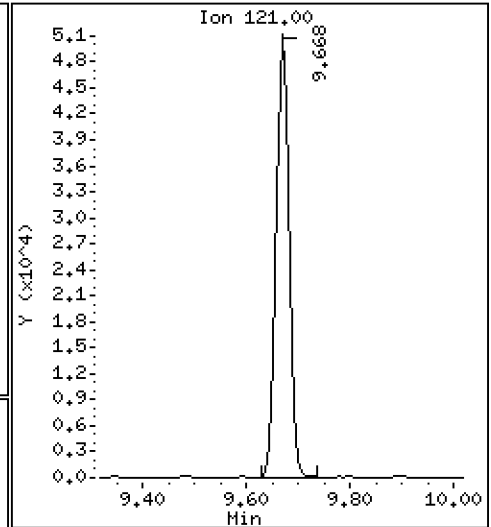
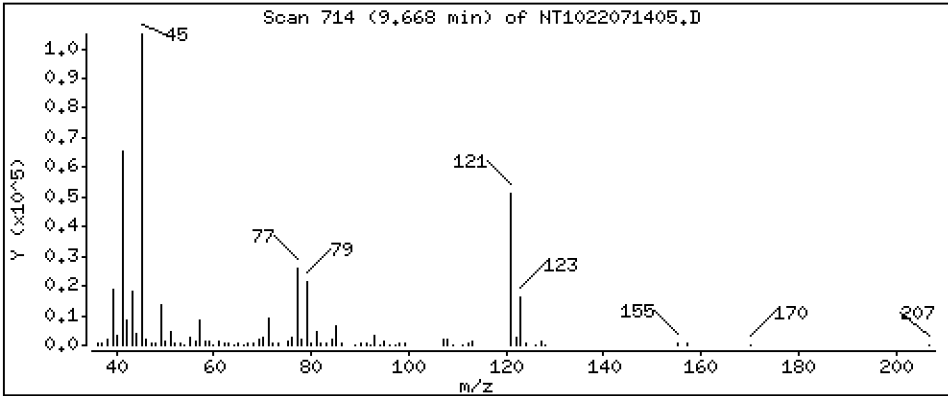
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 5.592 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

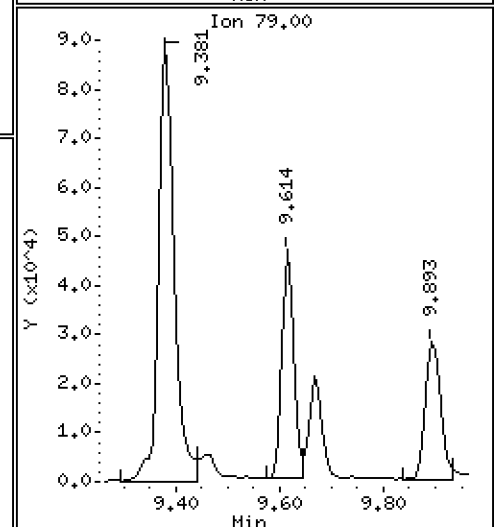
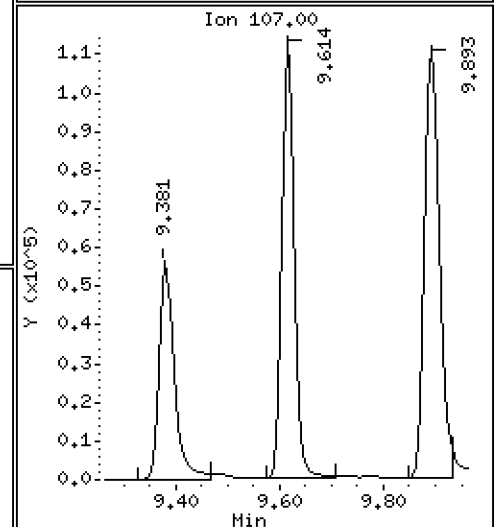
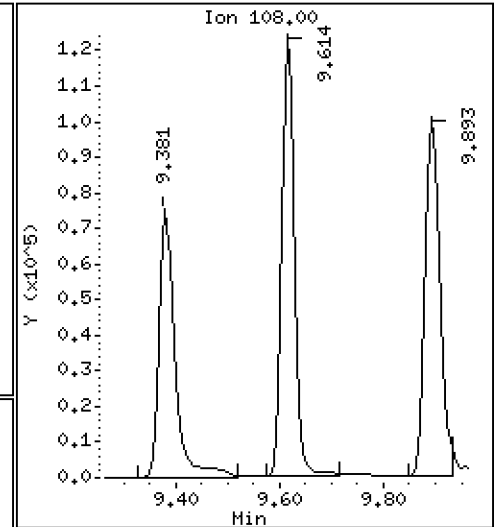
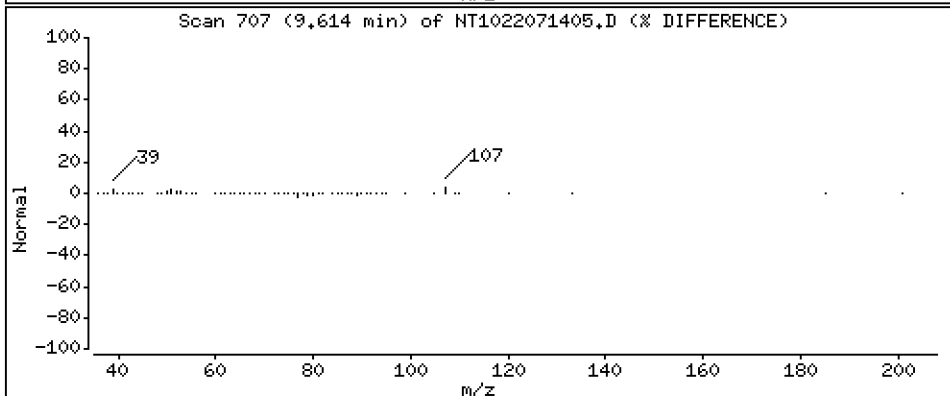
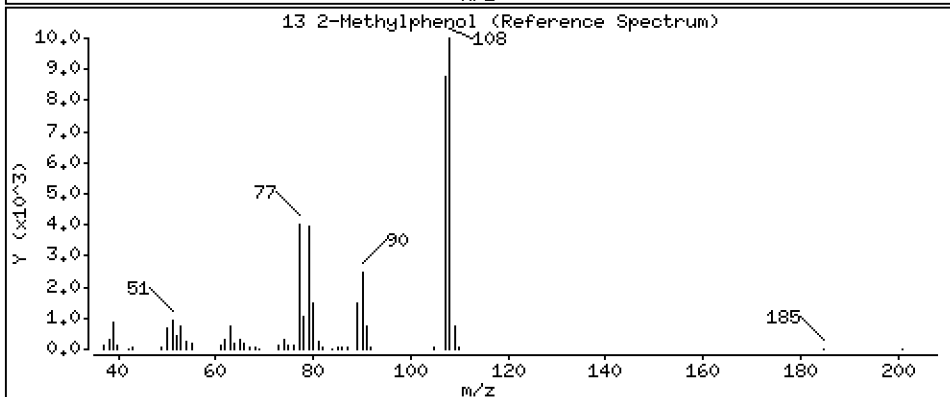
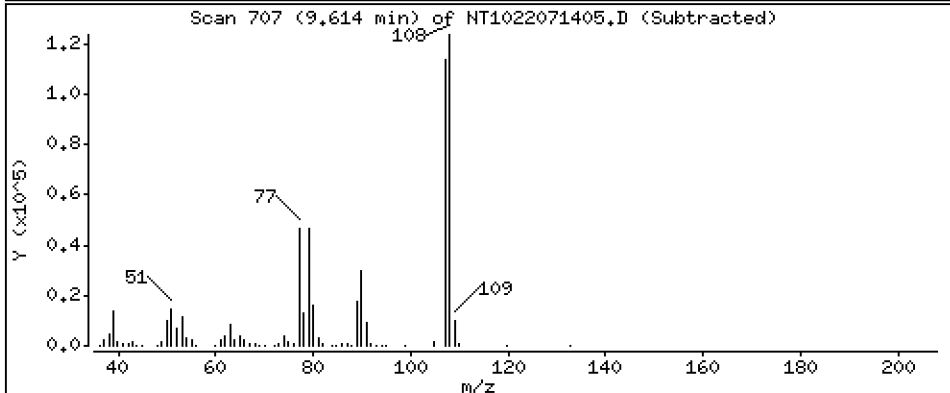
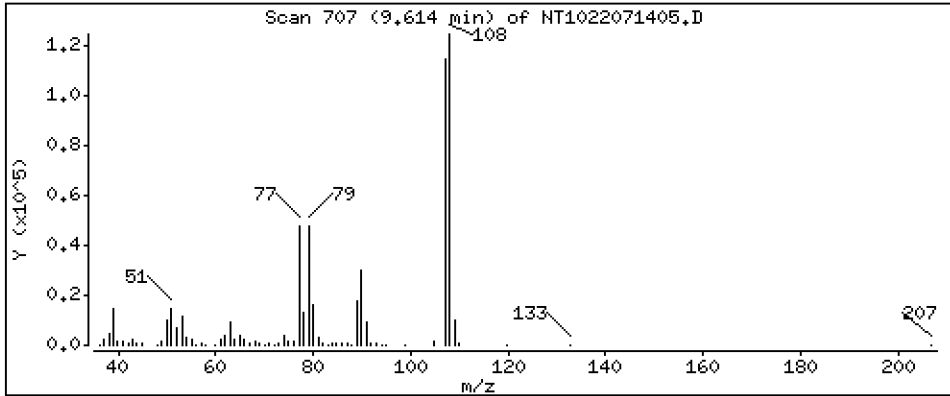
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 3,621 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

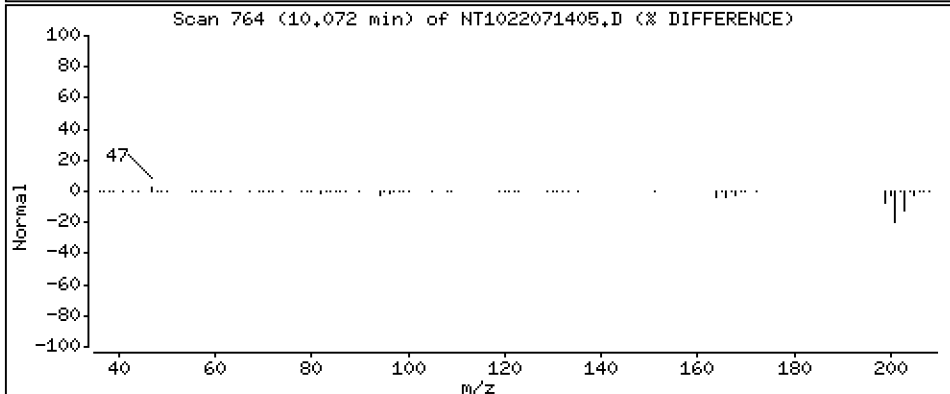
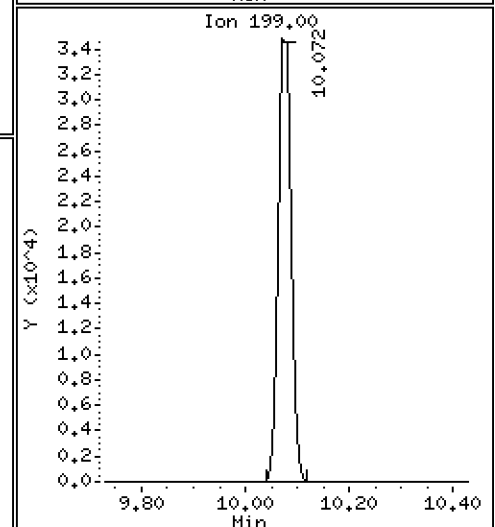
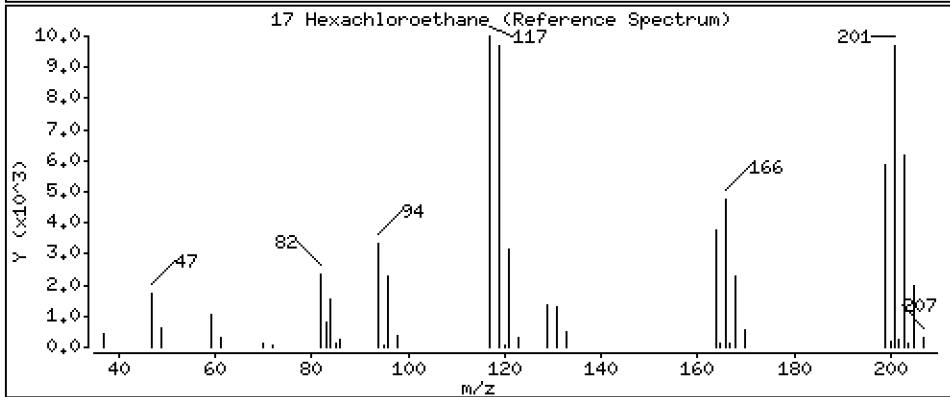
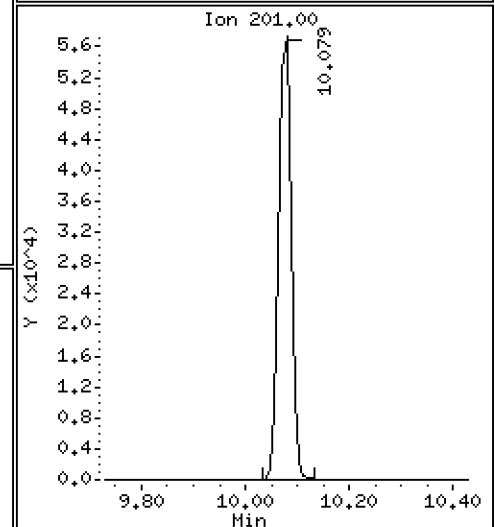
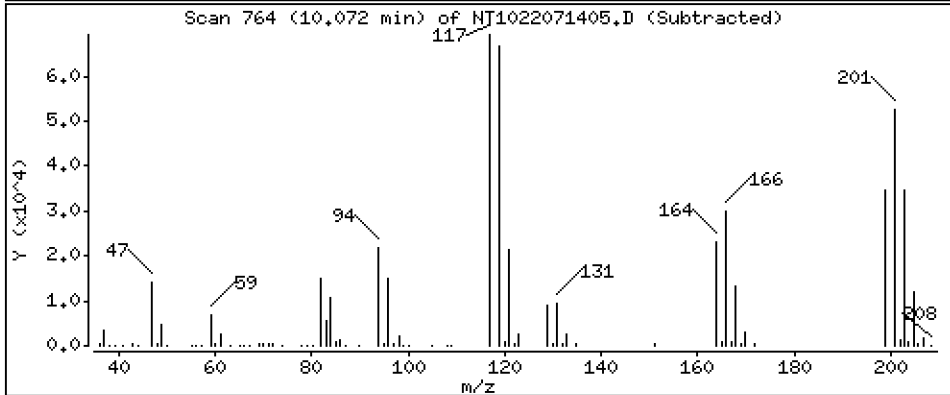
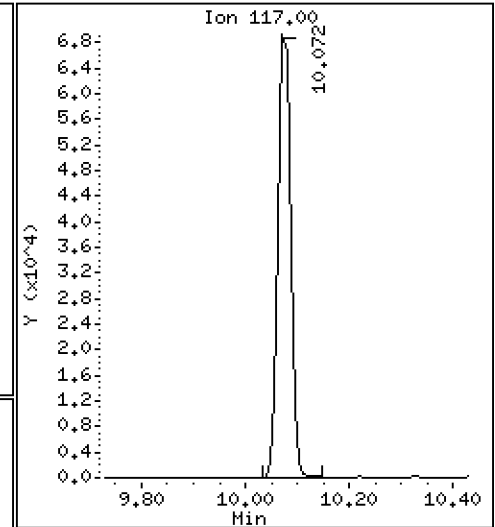
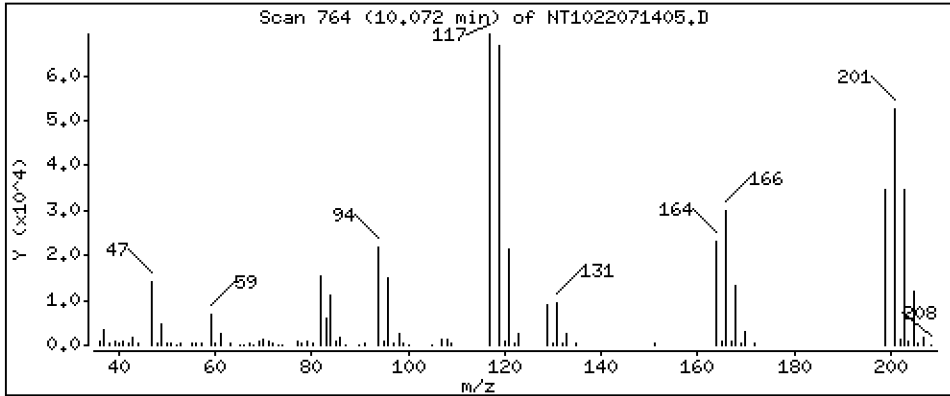
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 4,176 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

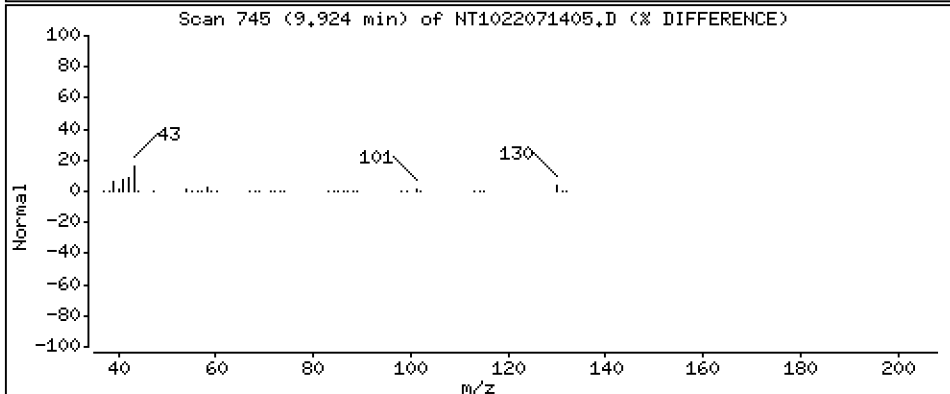
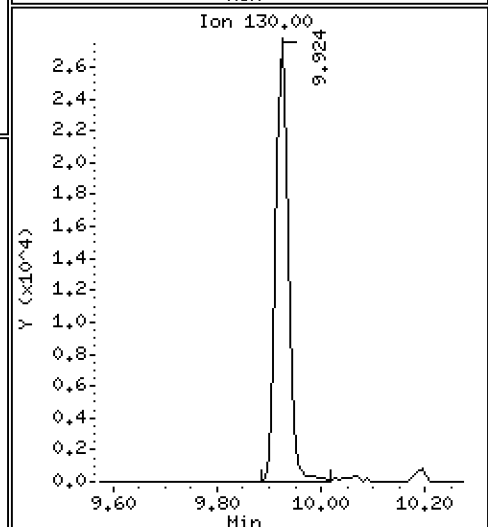
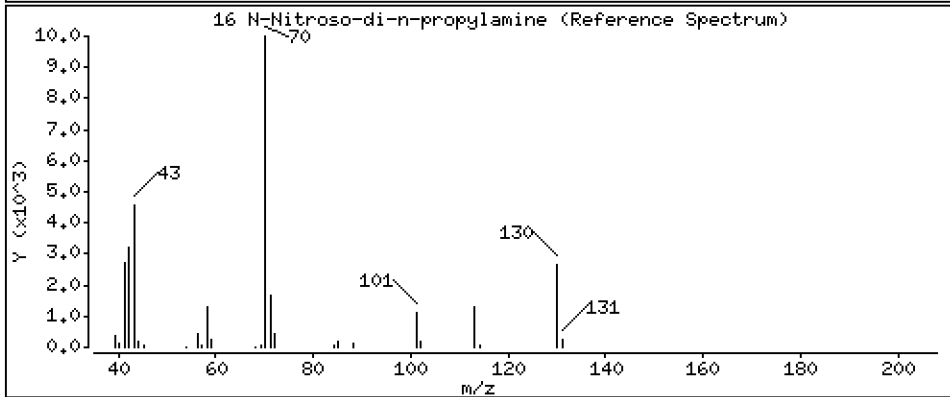
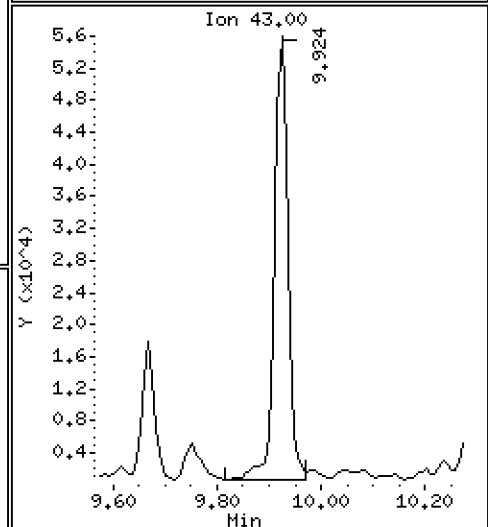
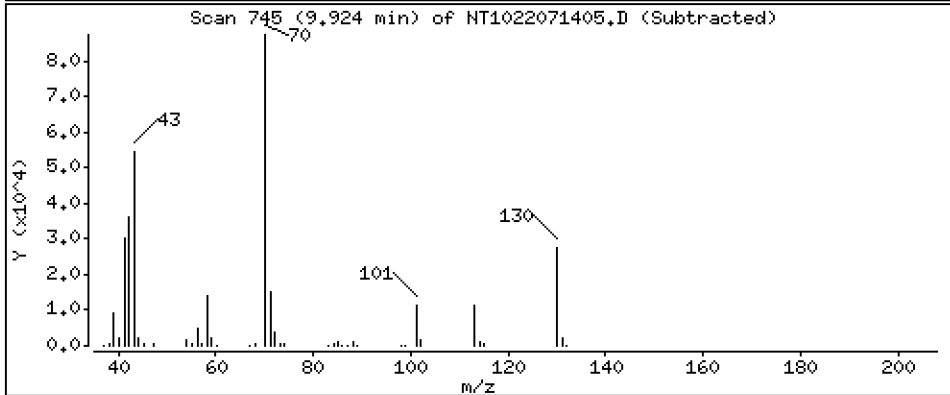
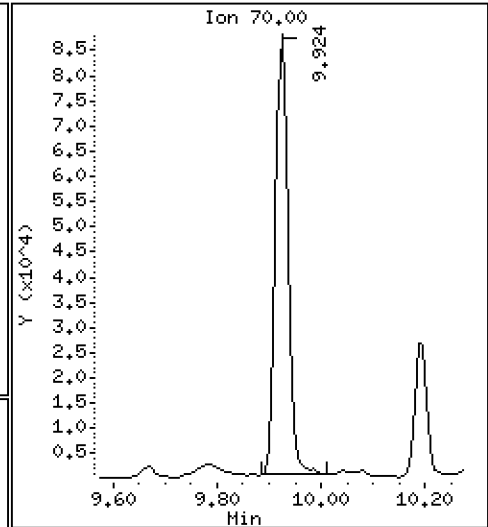
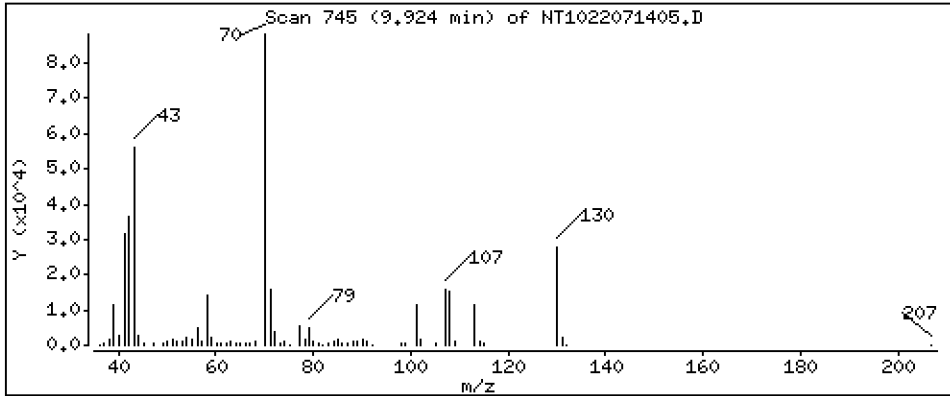
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 3,734 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

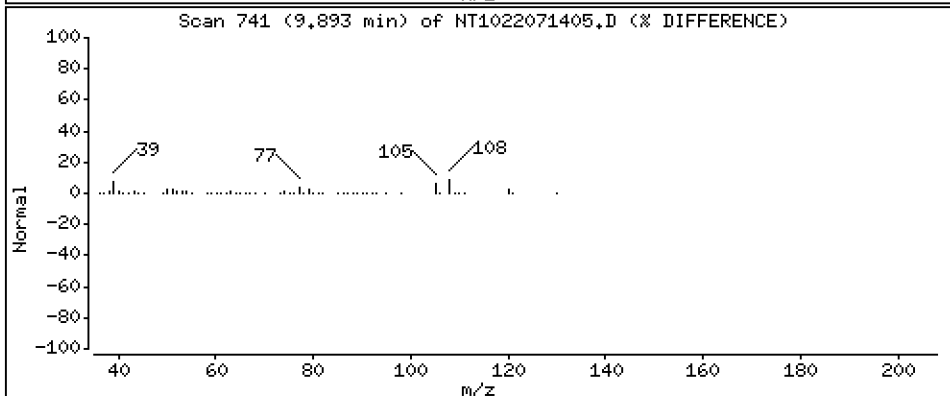
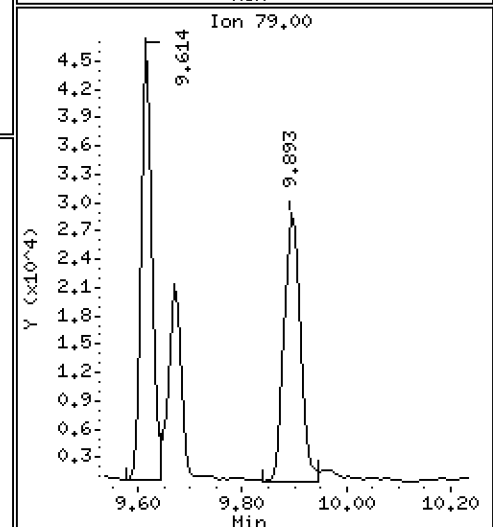
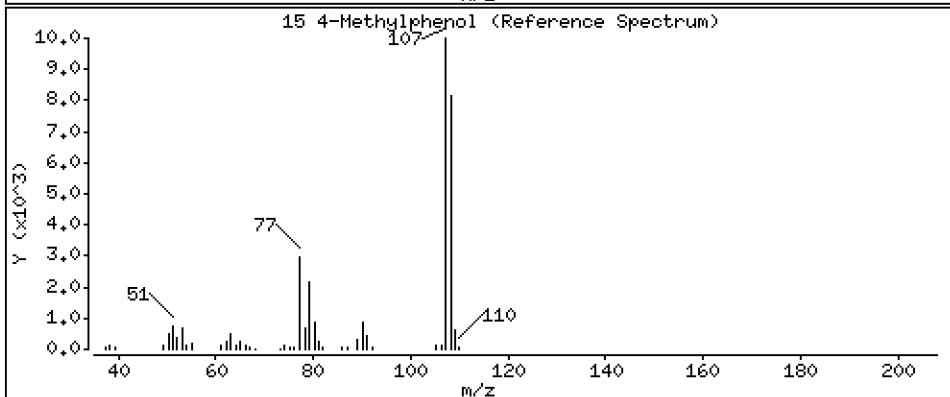
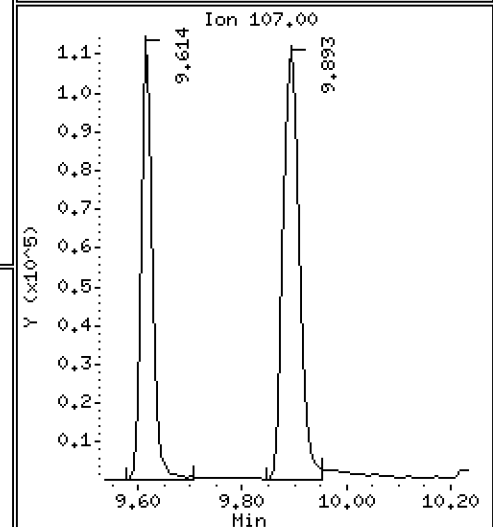
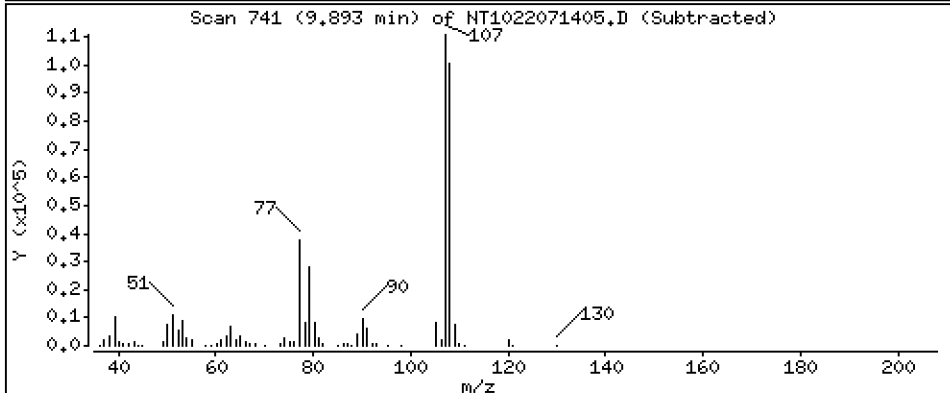
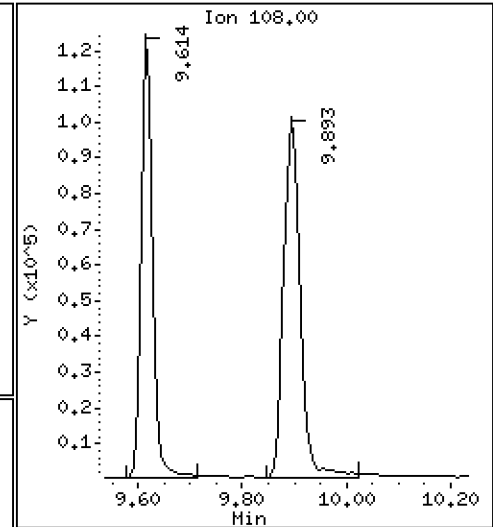
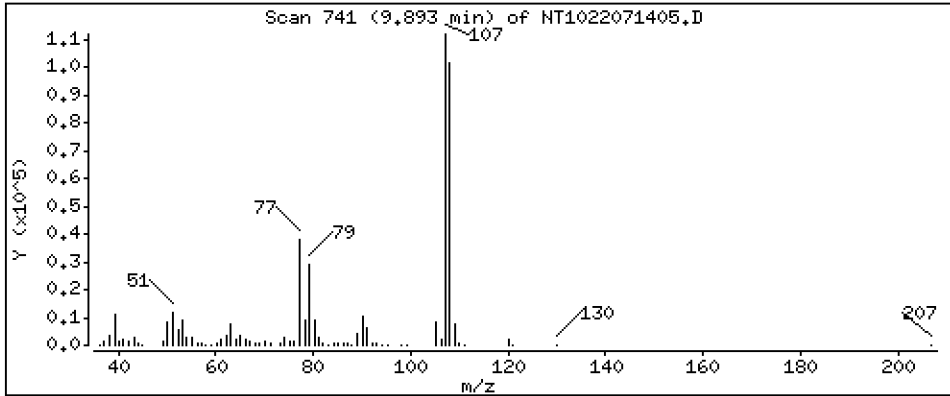
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 3,811 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

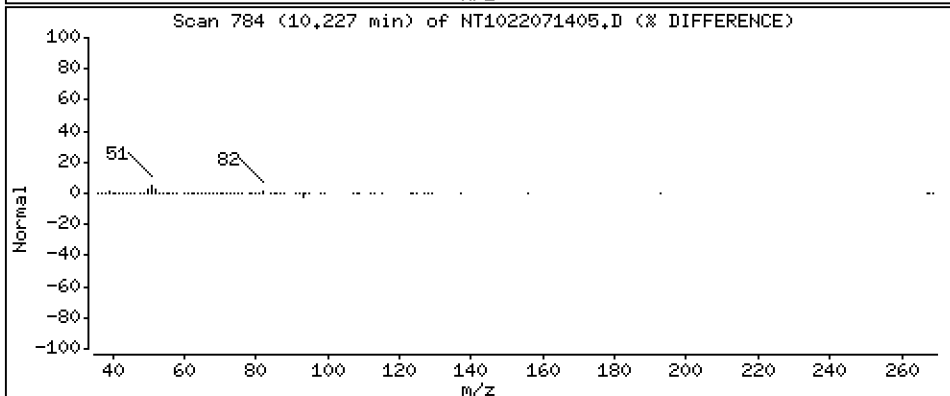
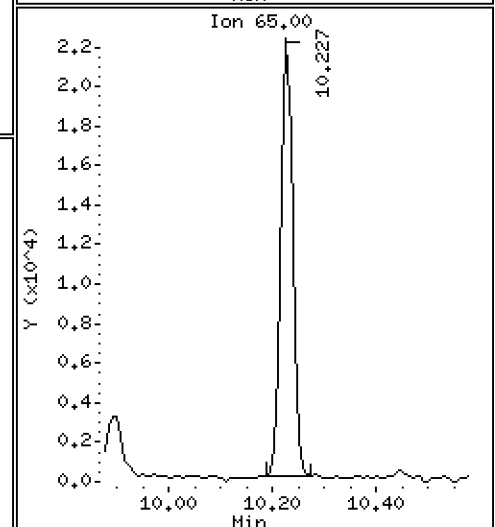
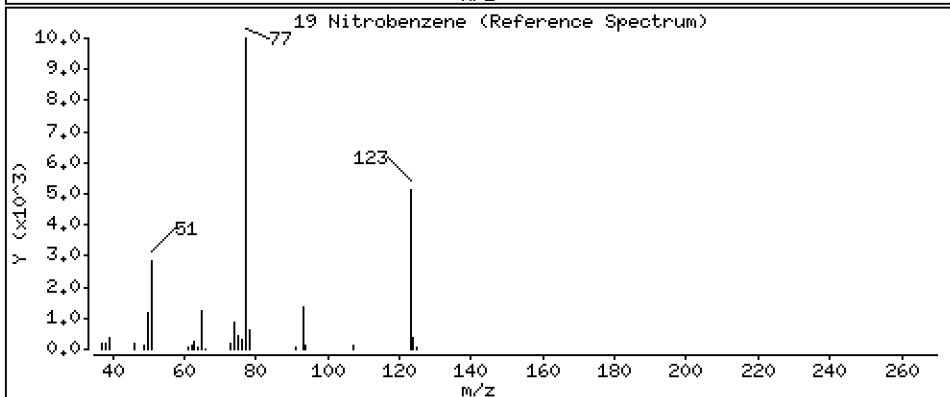
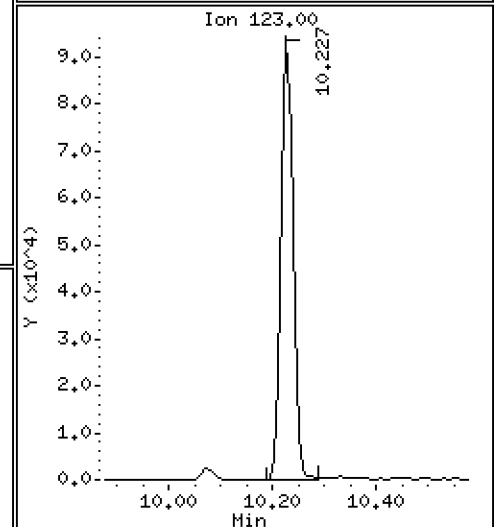
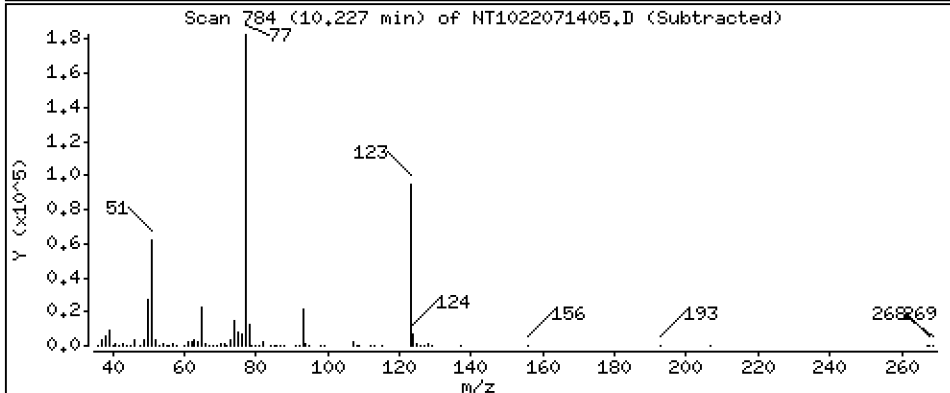
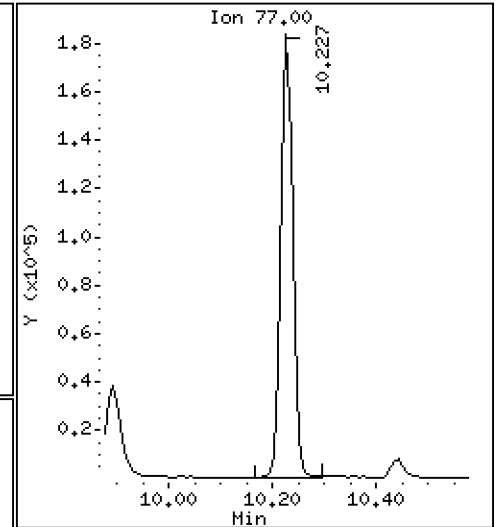
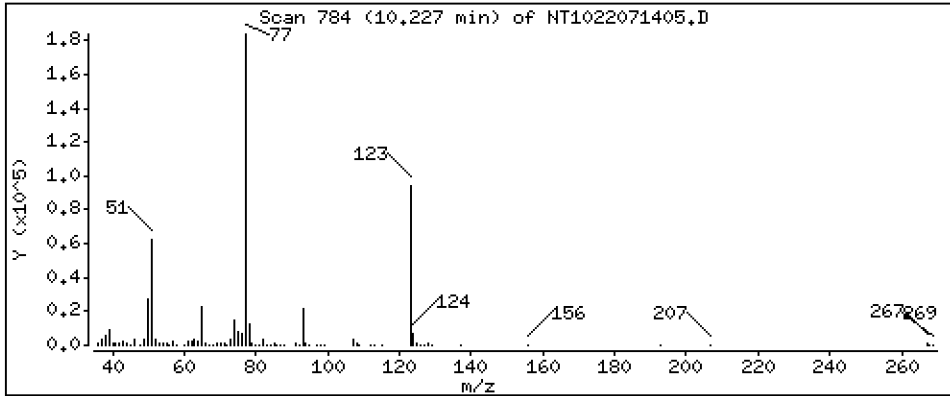
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,234 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

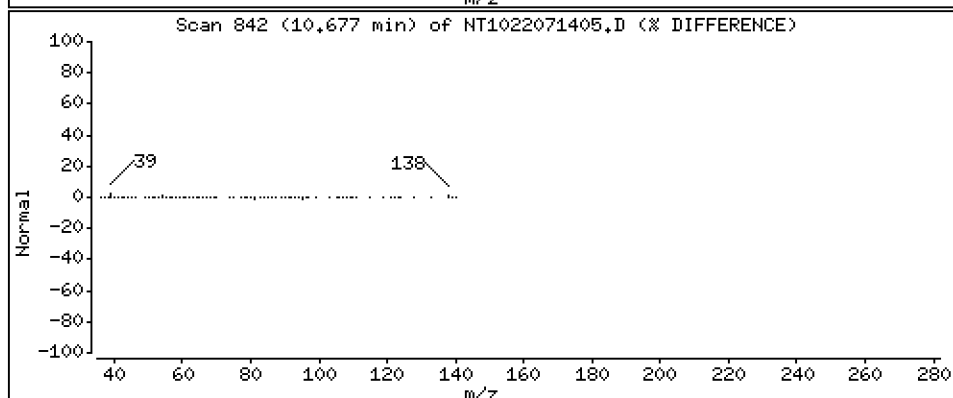
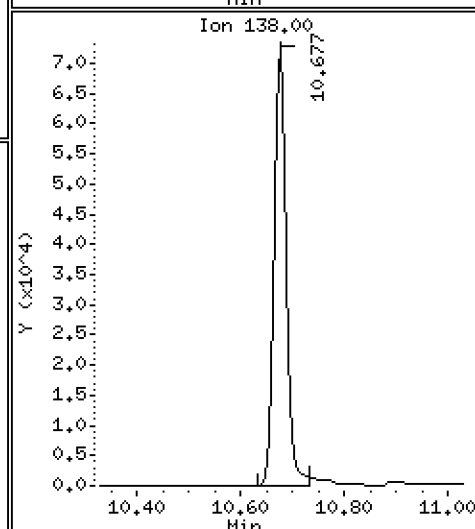
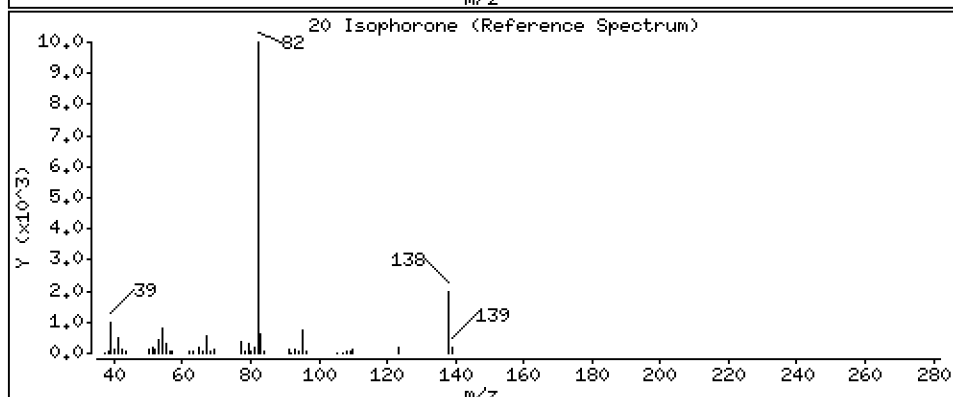
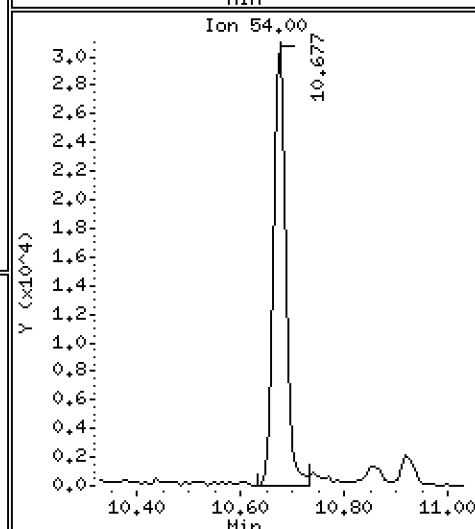
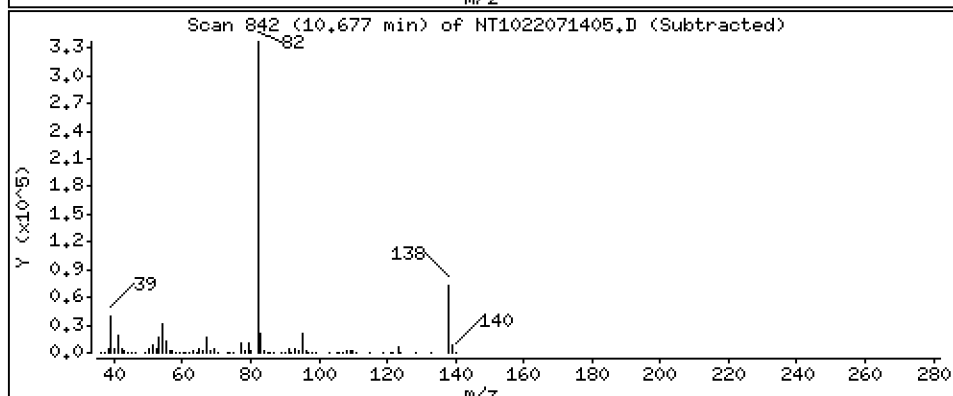
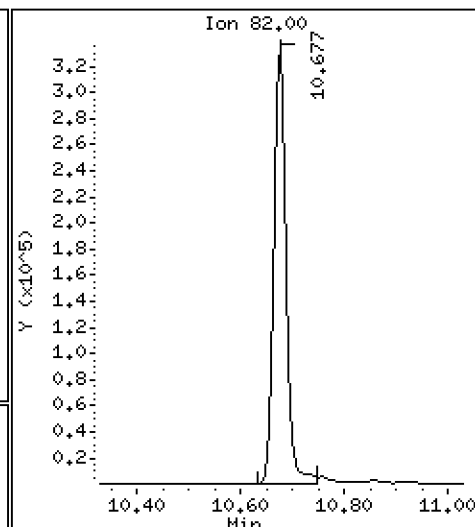
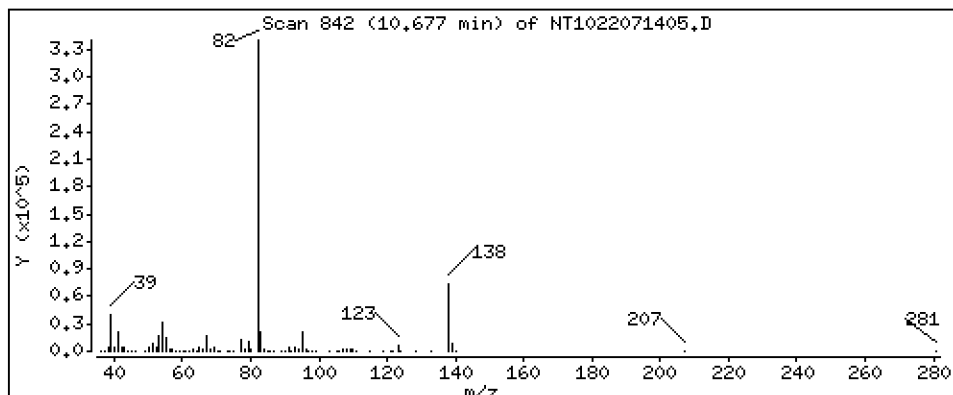
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 6,108 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

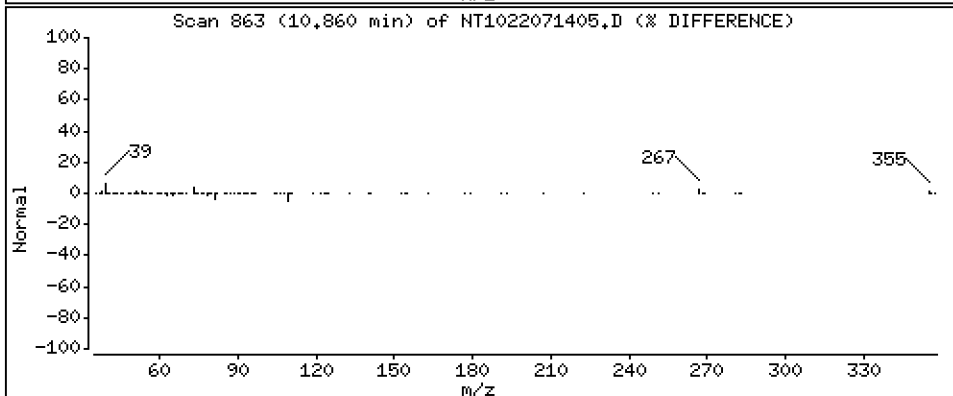
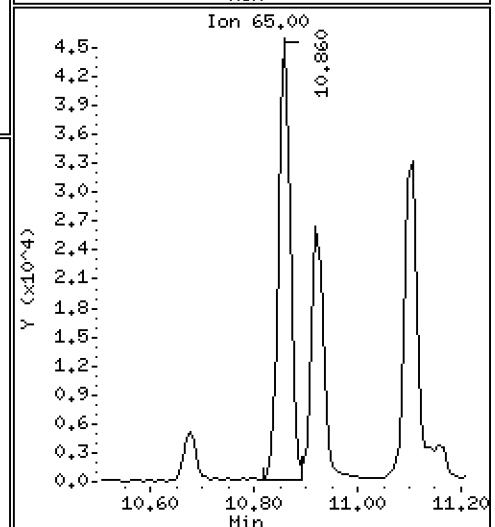
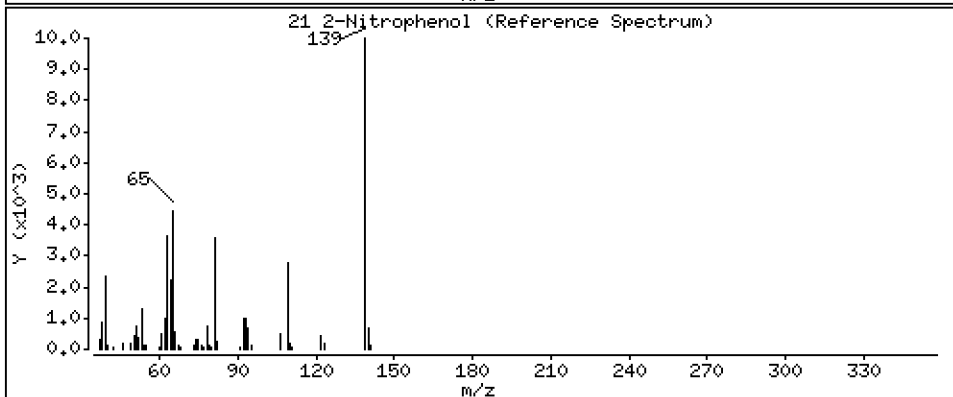
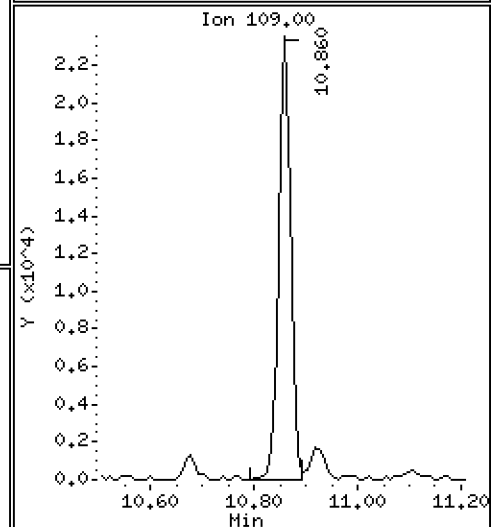
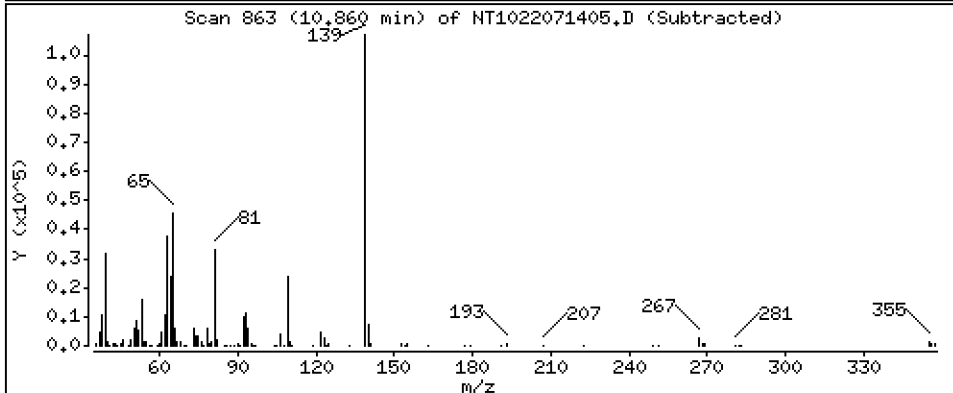
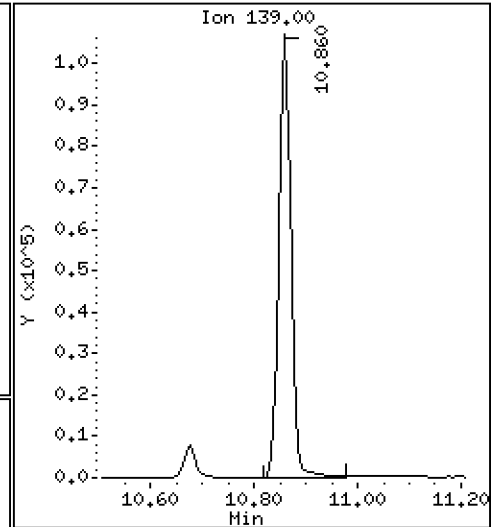
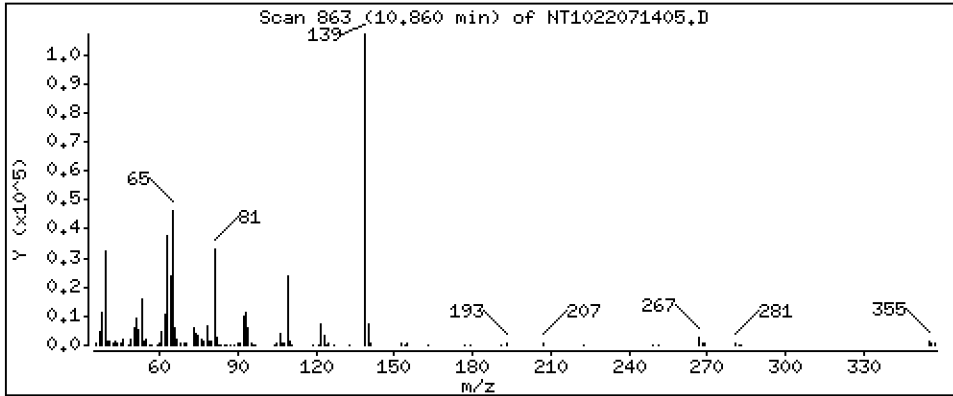
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,212 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

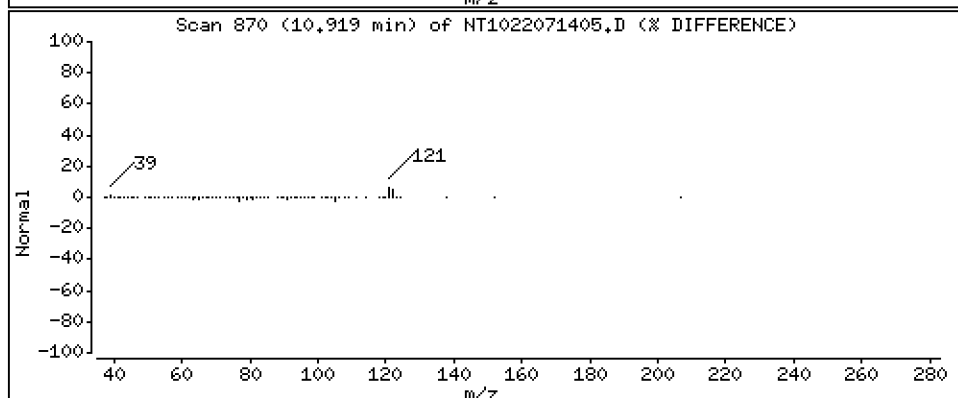
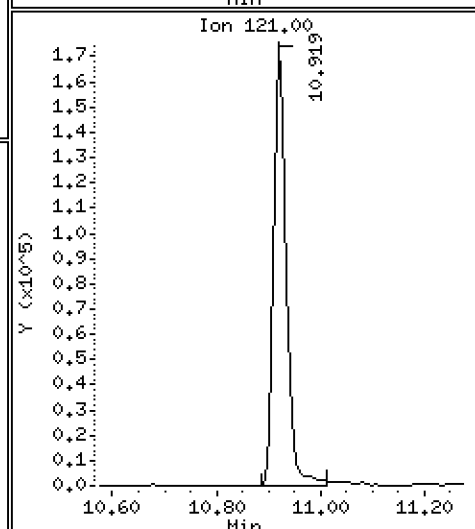
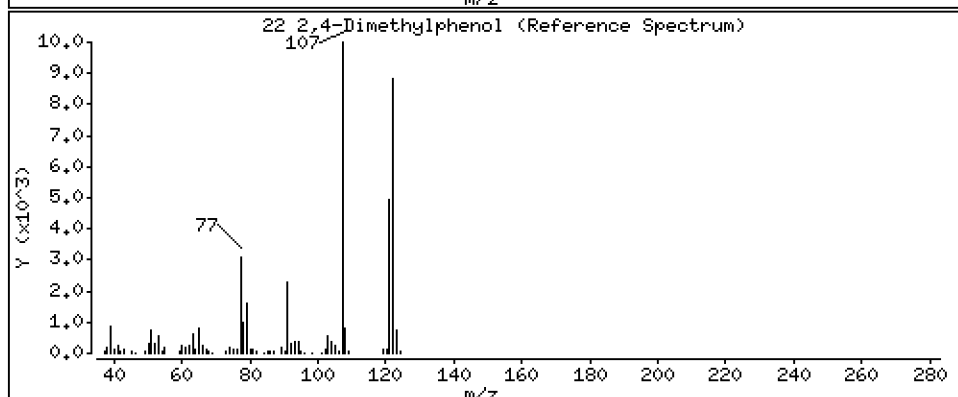
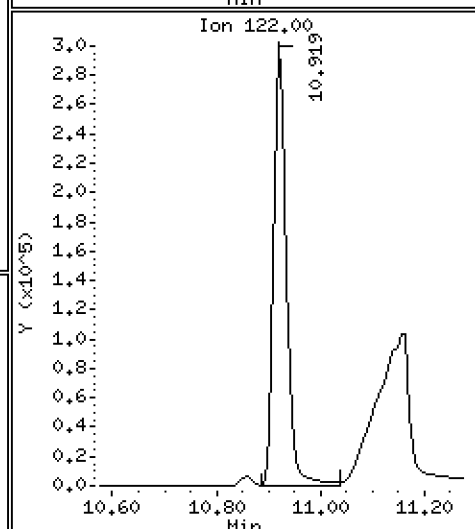
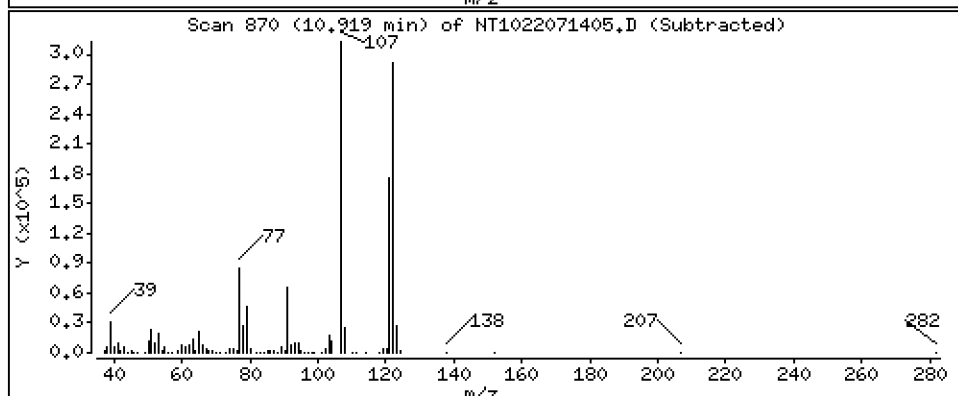
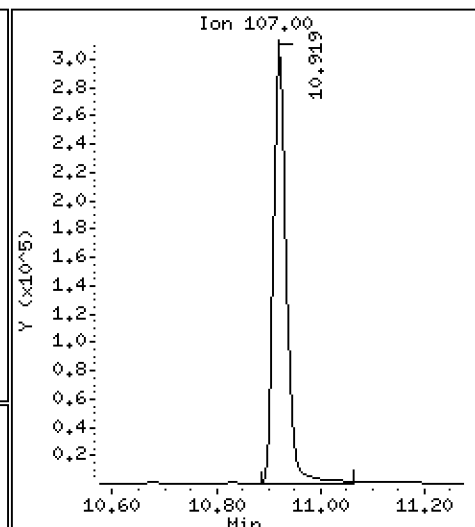
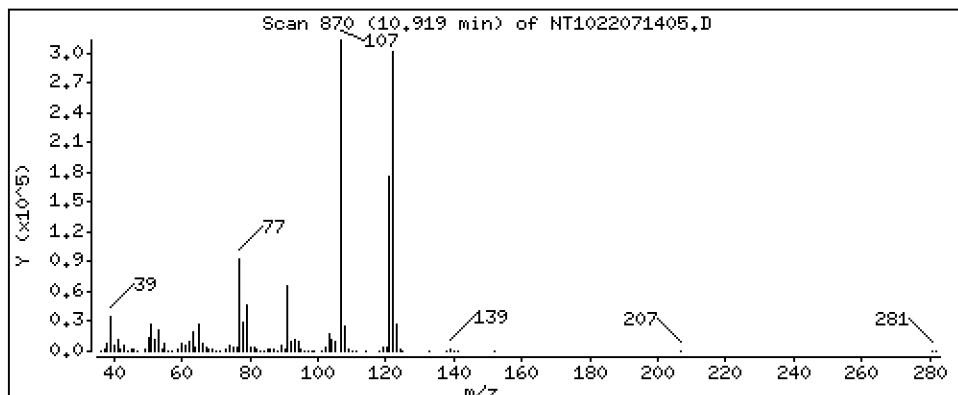
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 10,58 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

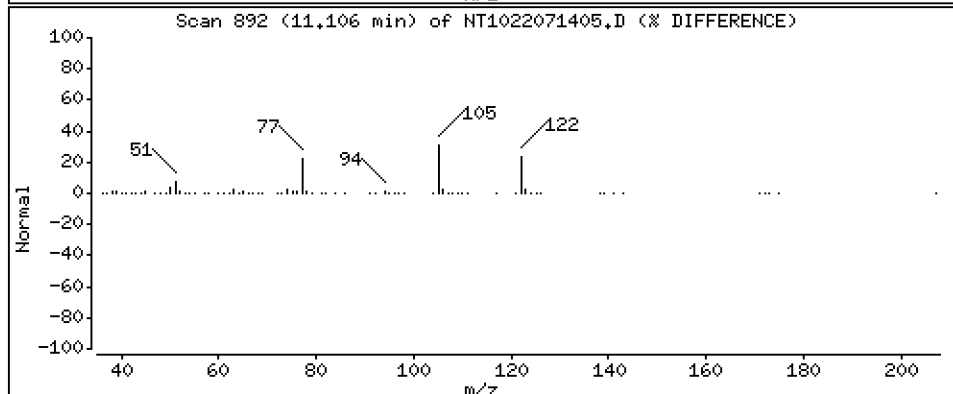
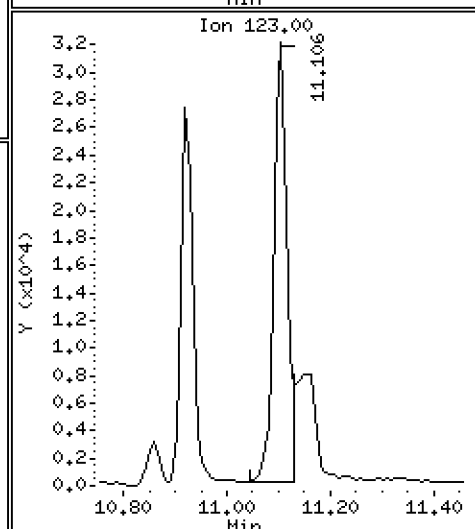
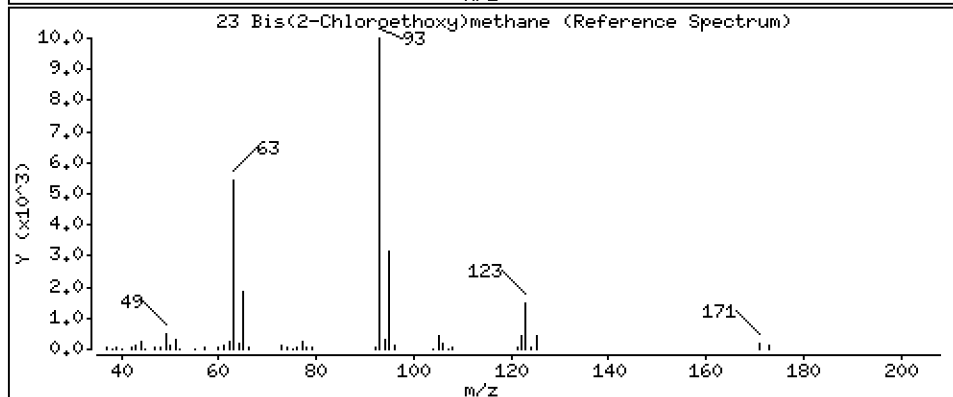
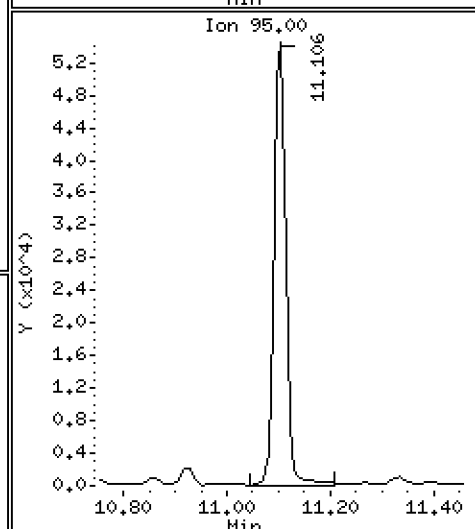
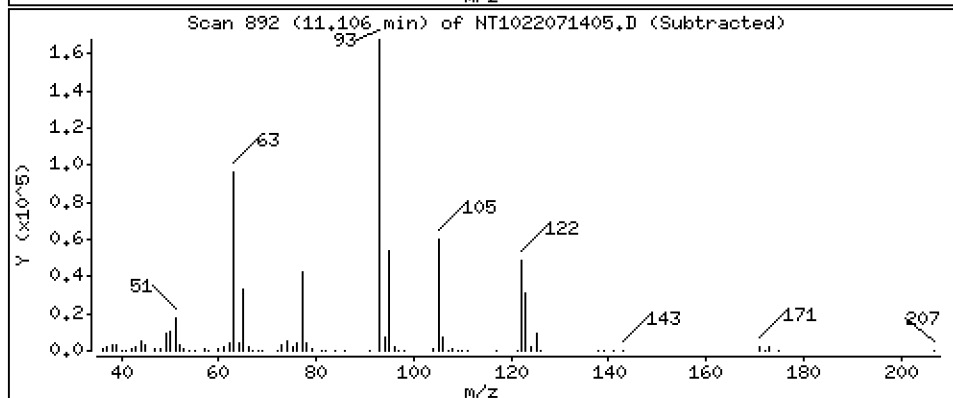
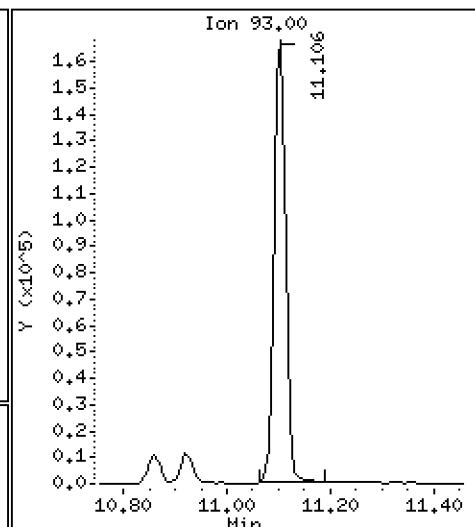
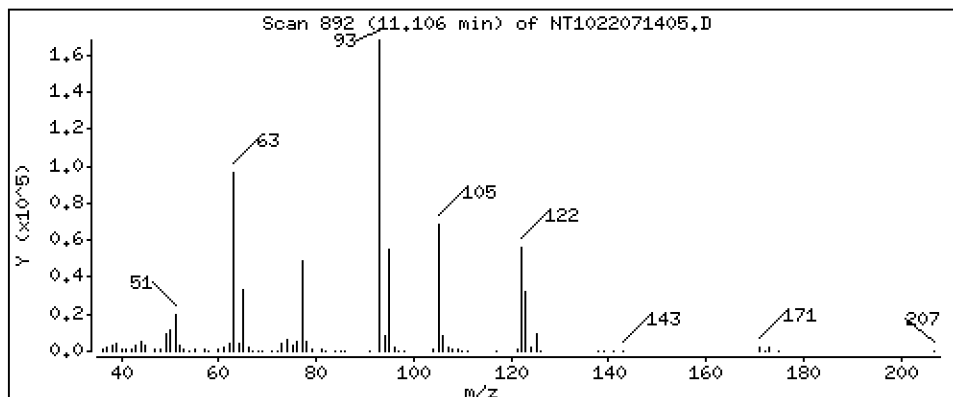
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 4,711 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

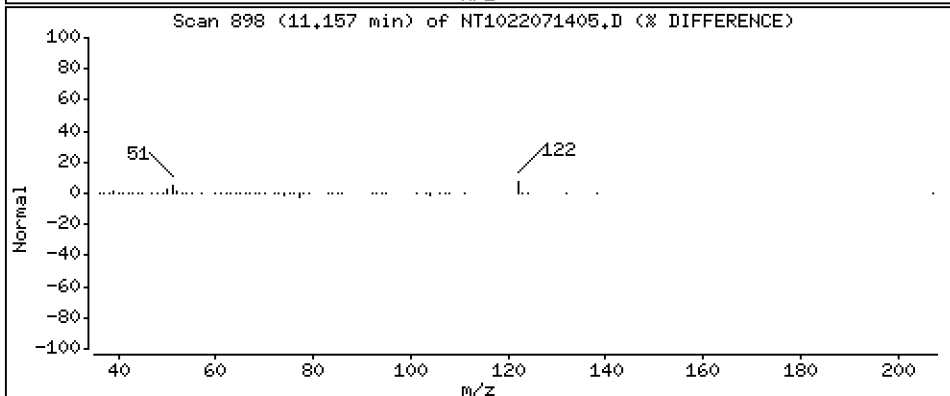
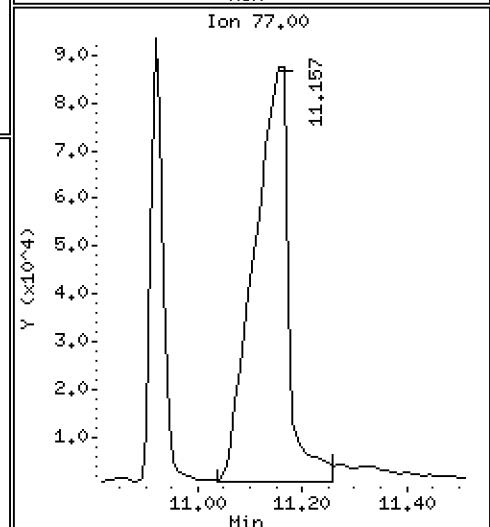
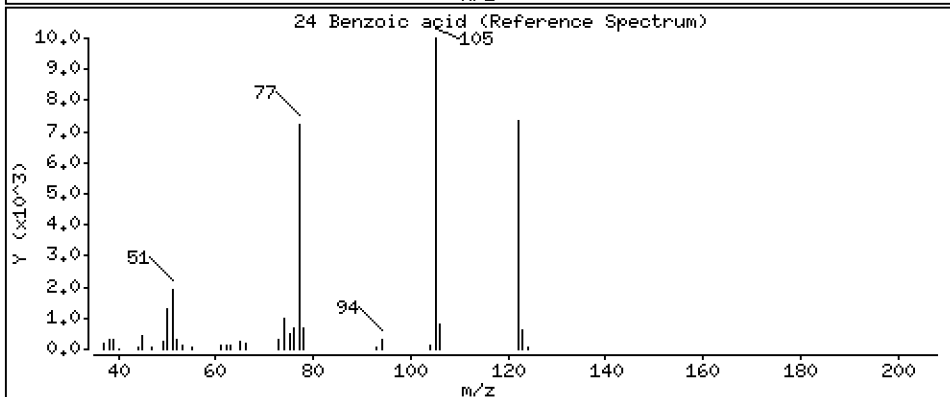
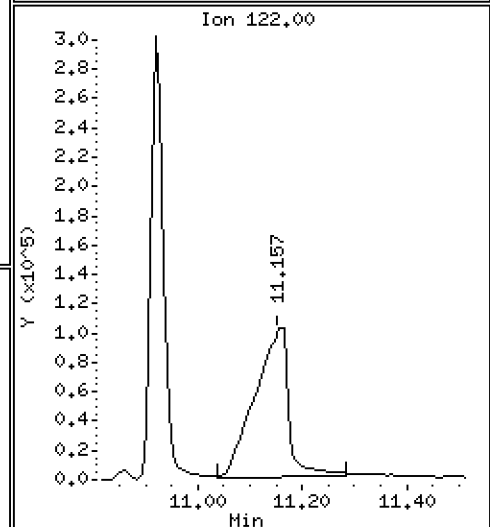
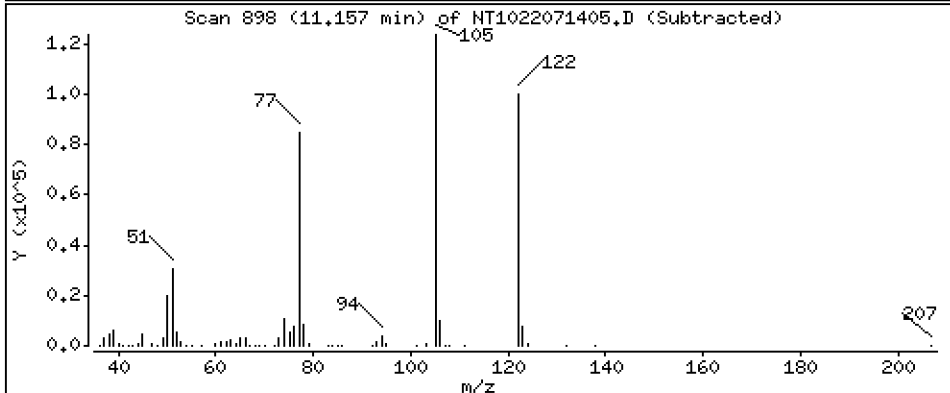
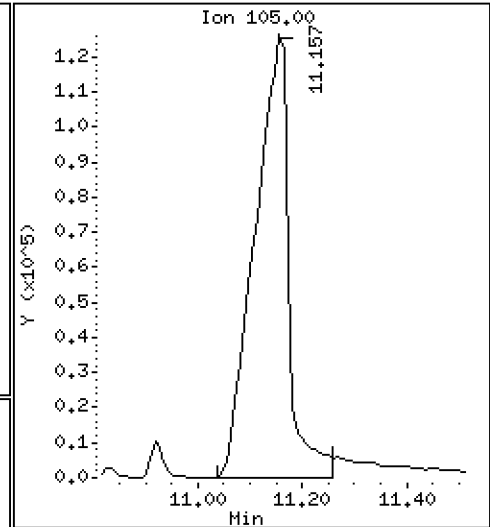
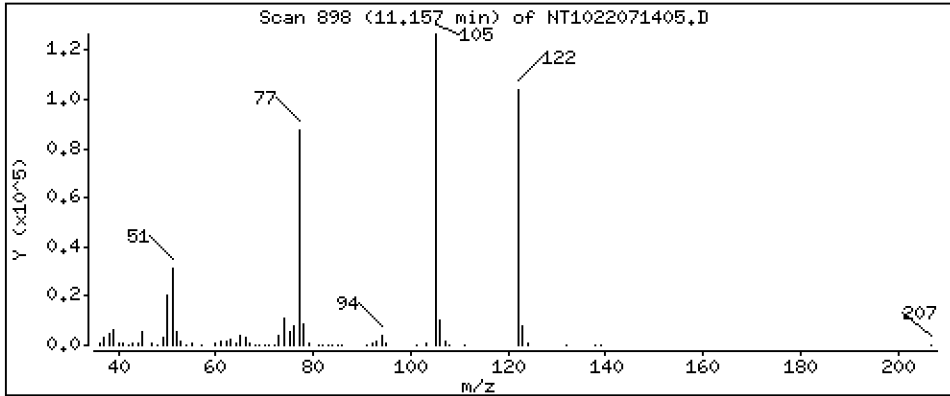
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 21,40 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

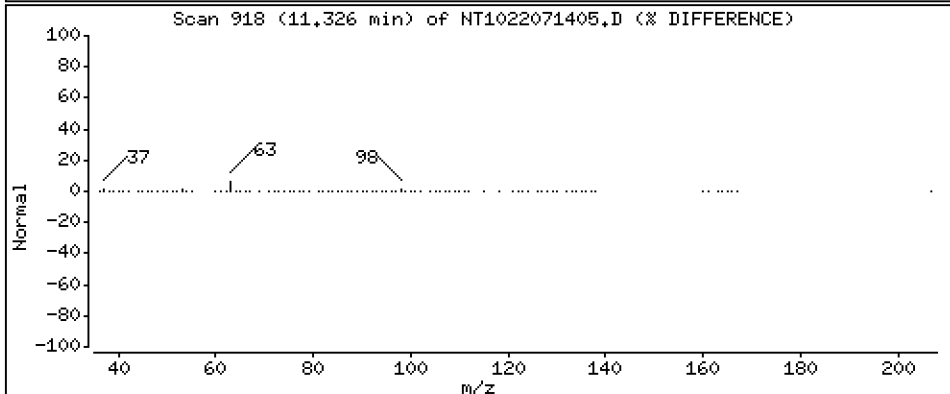
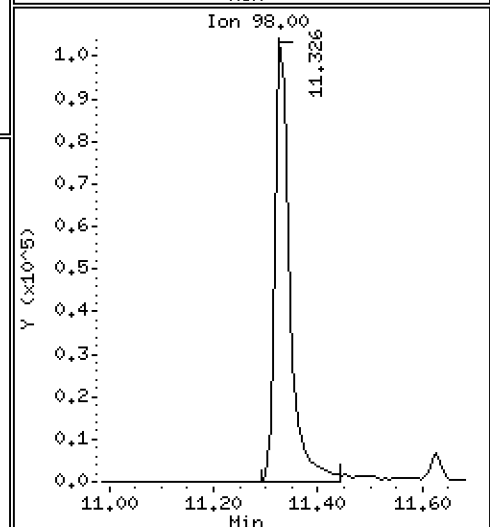
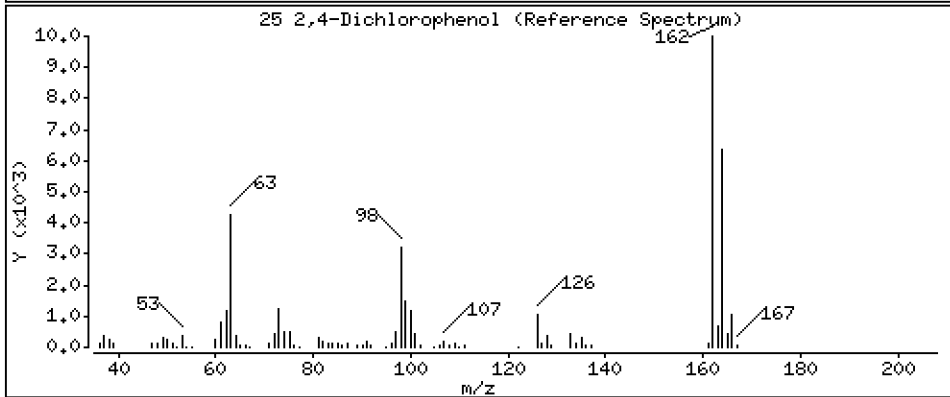
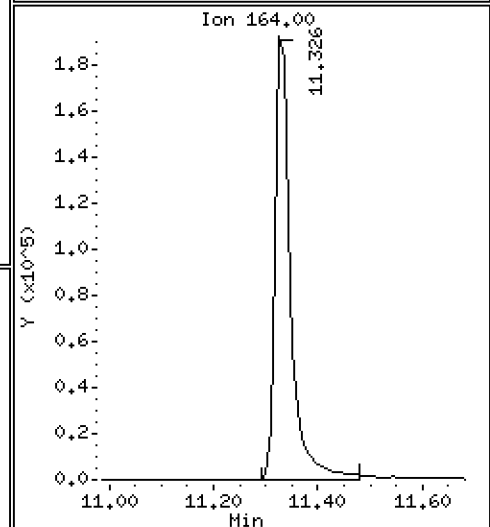
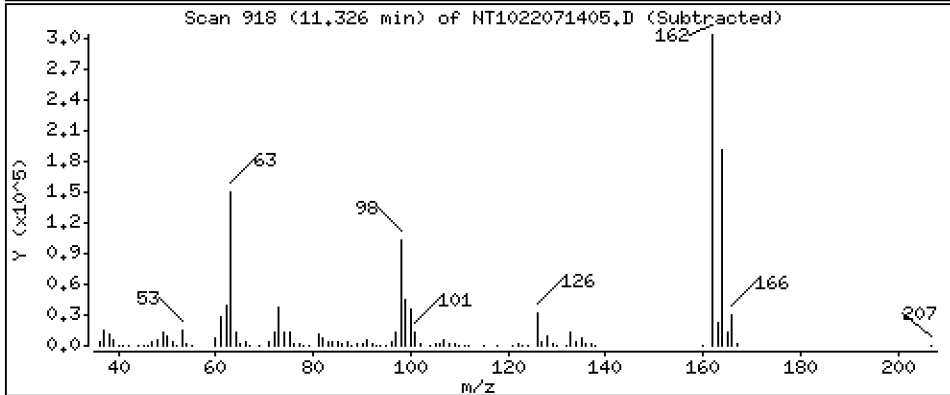
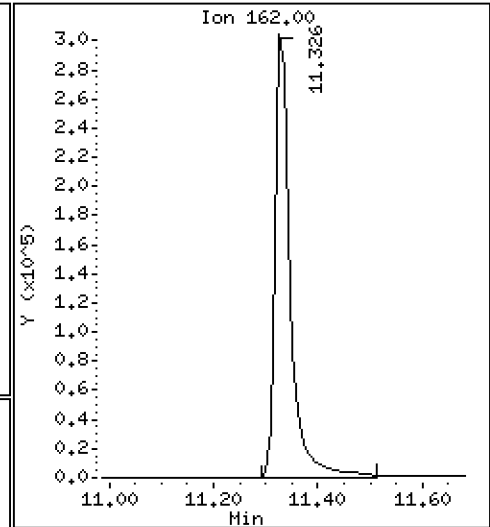
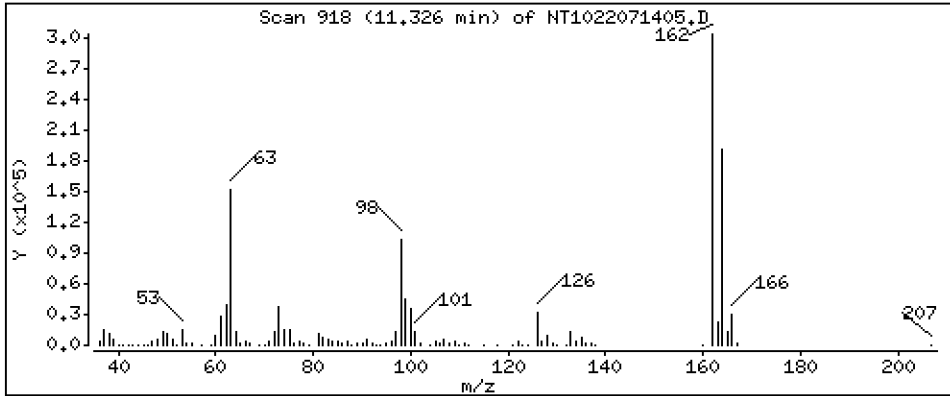
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 12,49 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

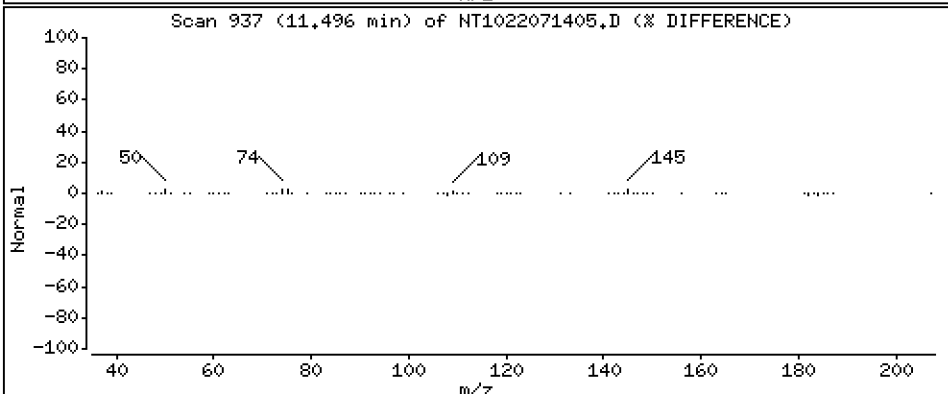
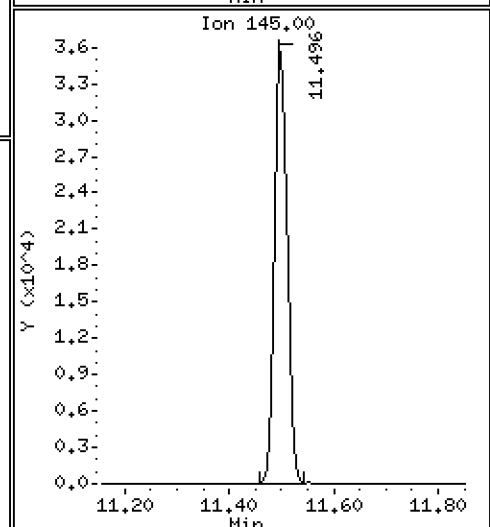
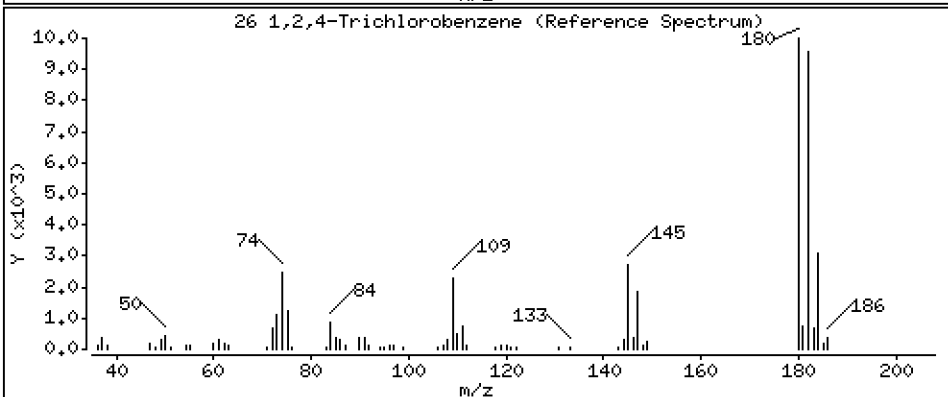
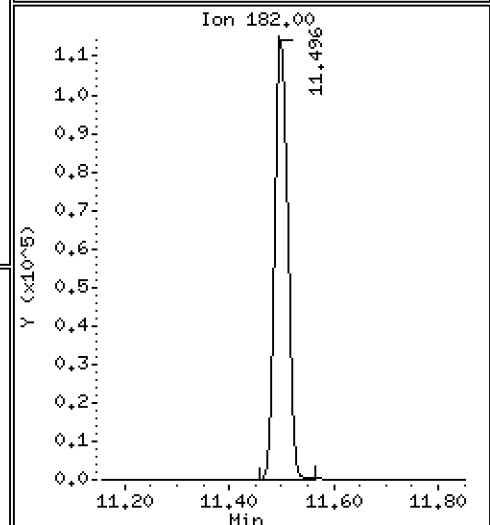
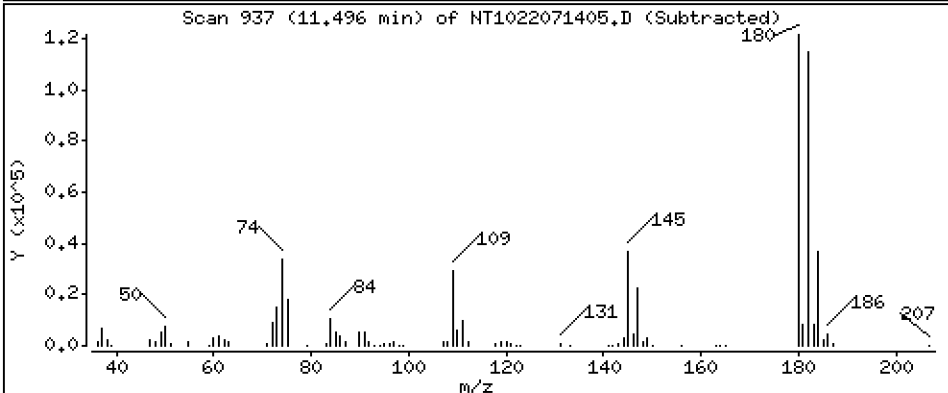
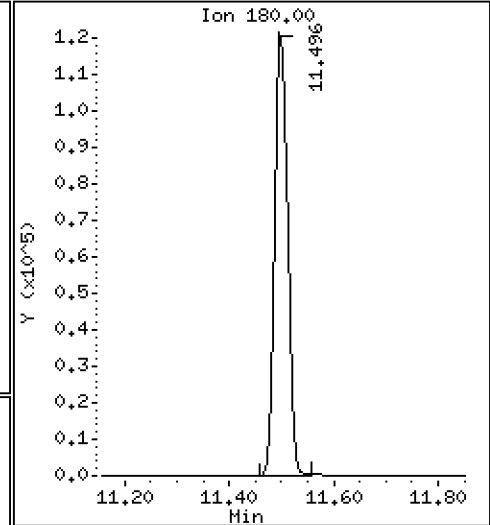
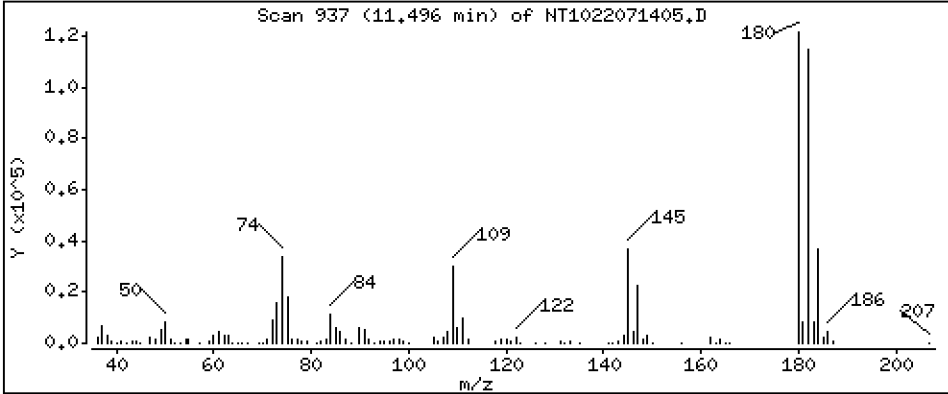
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 3,673 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

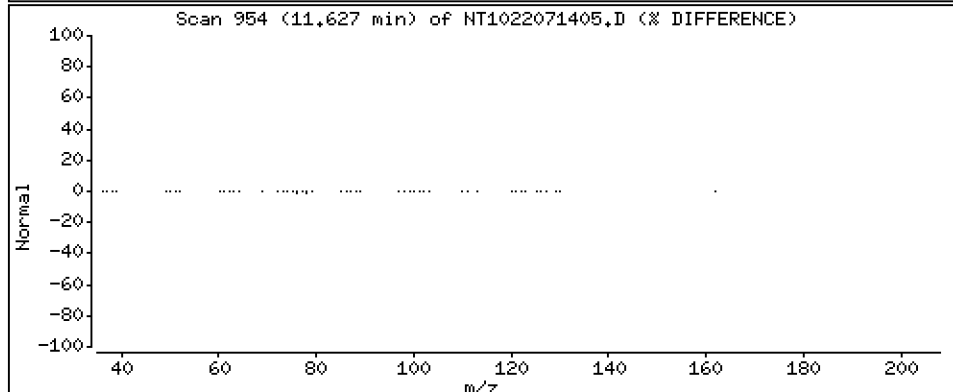
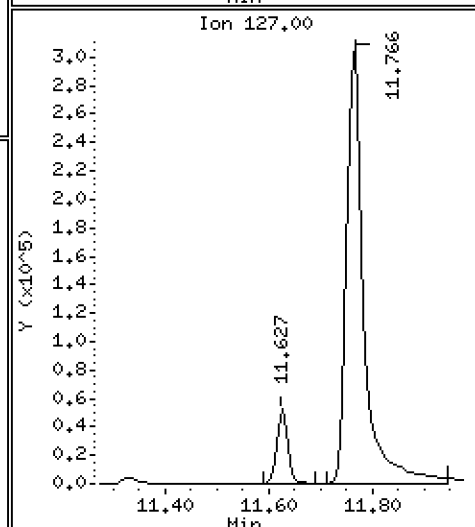
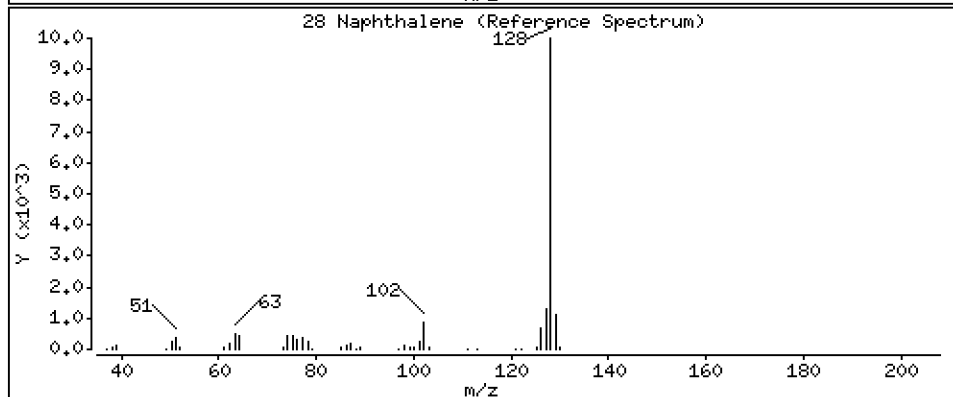
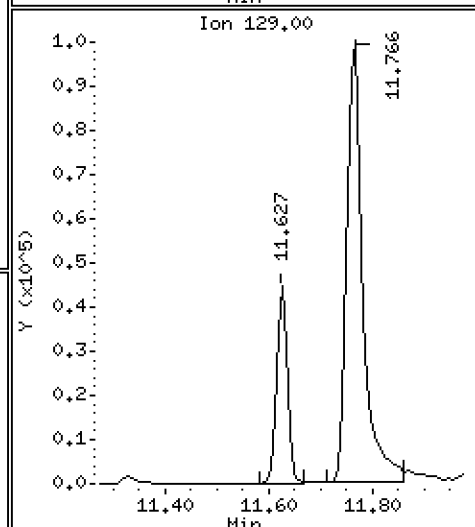
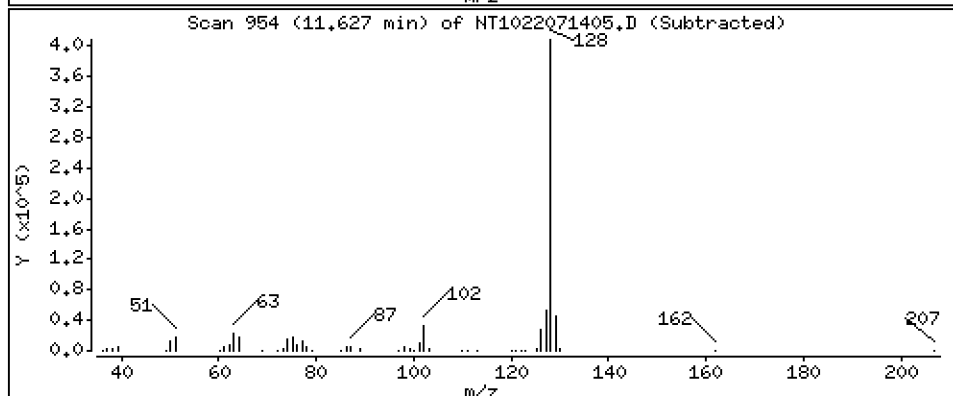
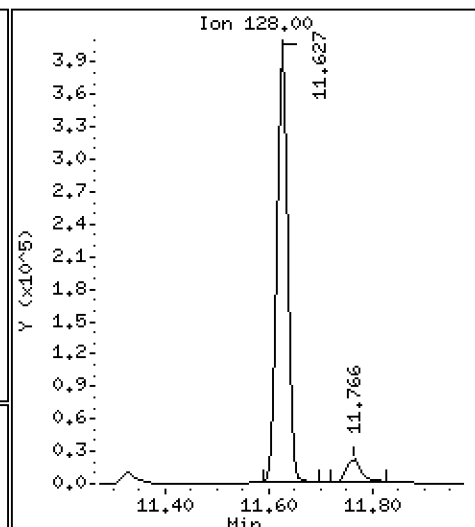
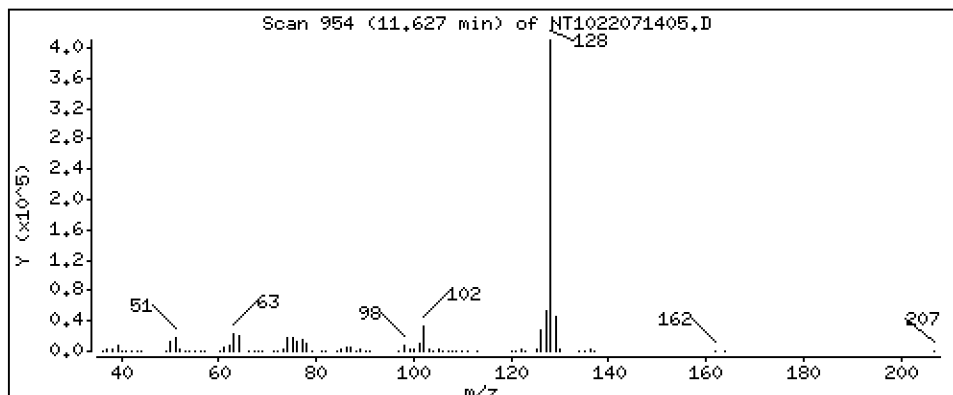
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 3,933 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

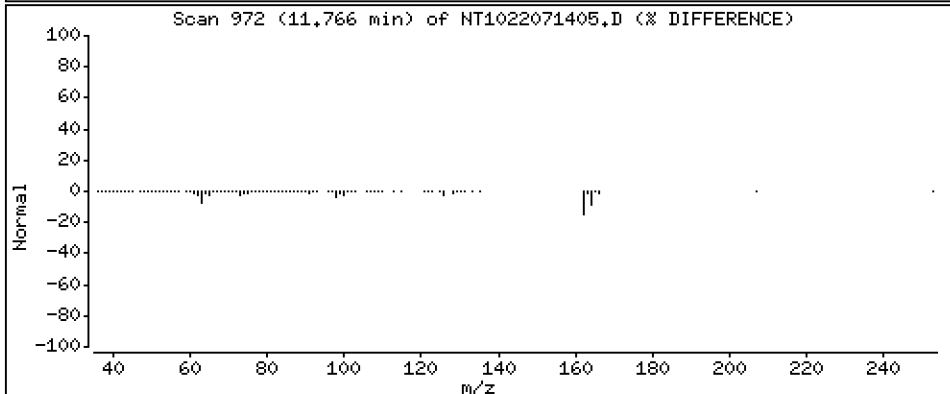
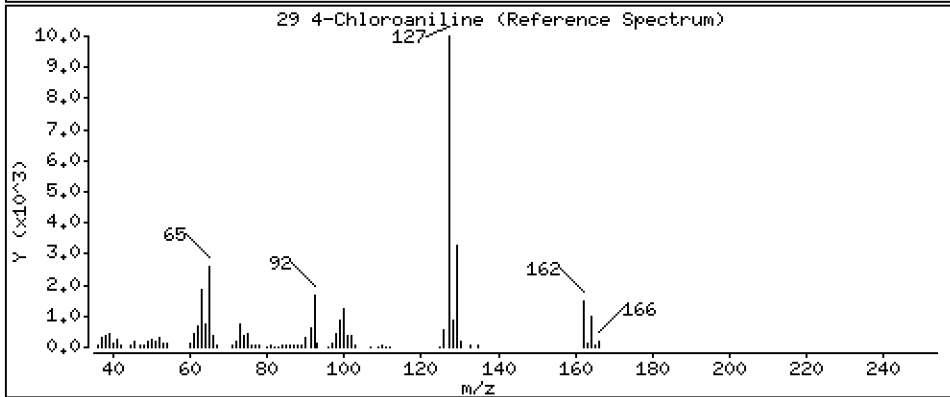
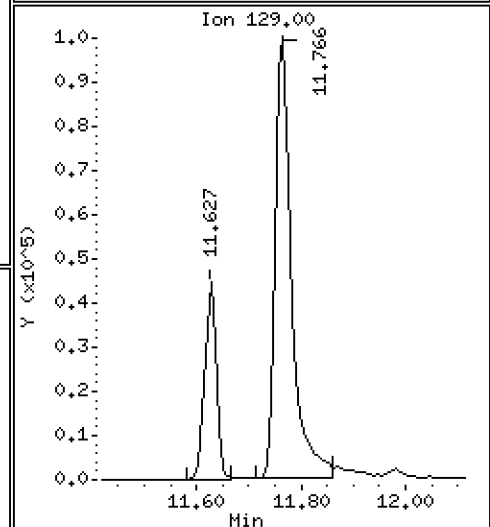
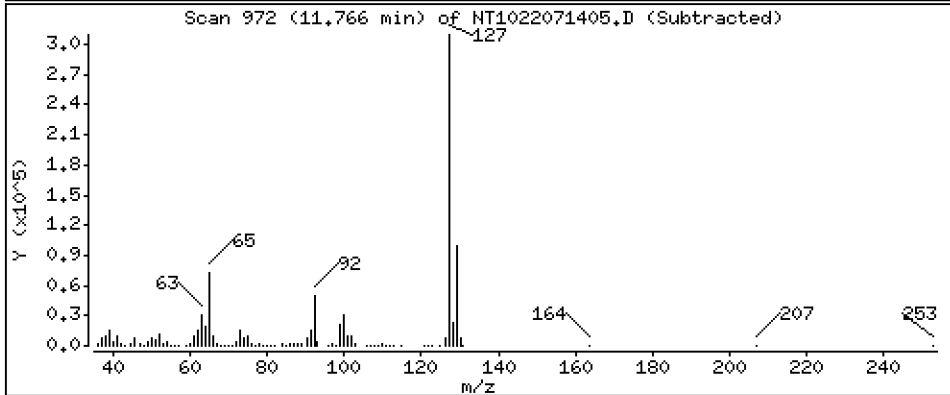
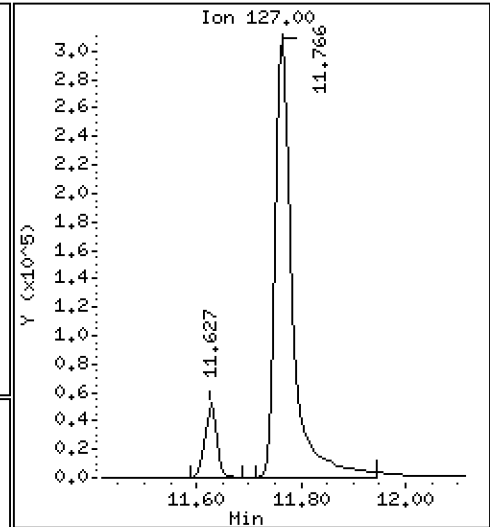
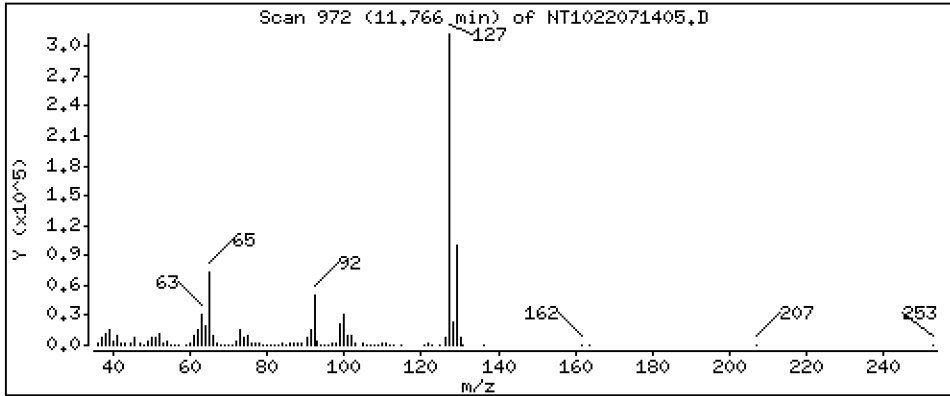
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 10,65 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

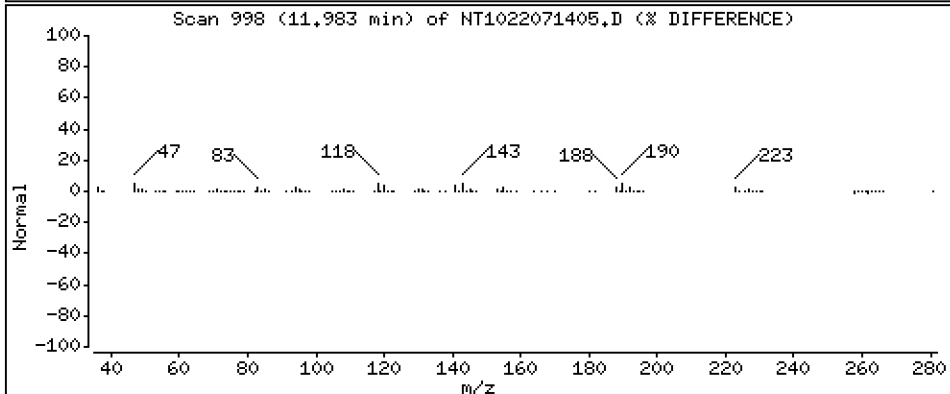
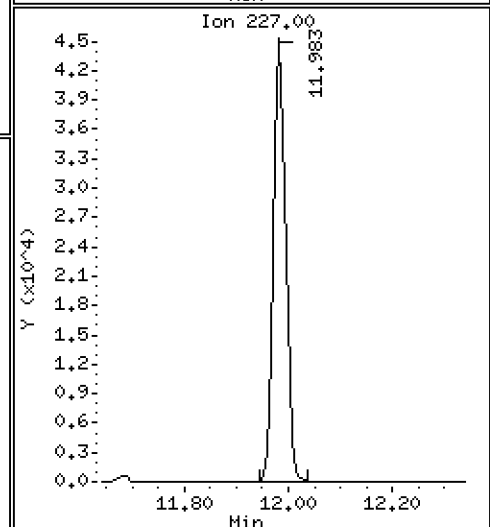
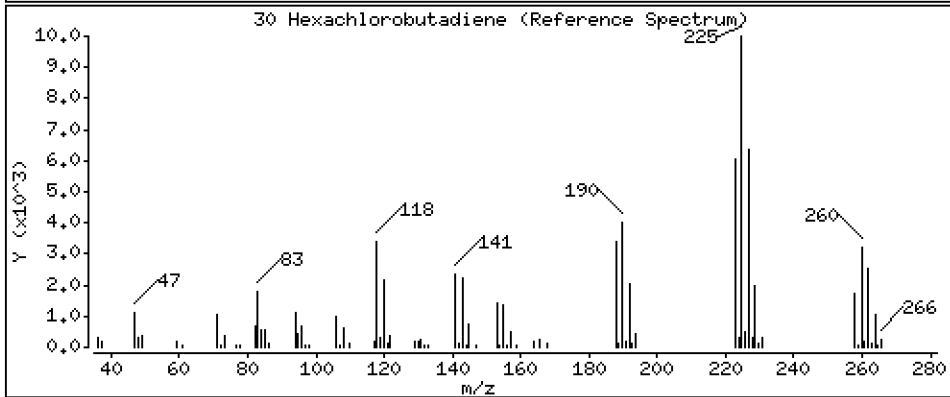
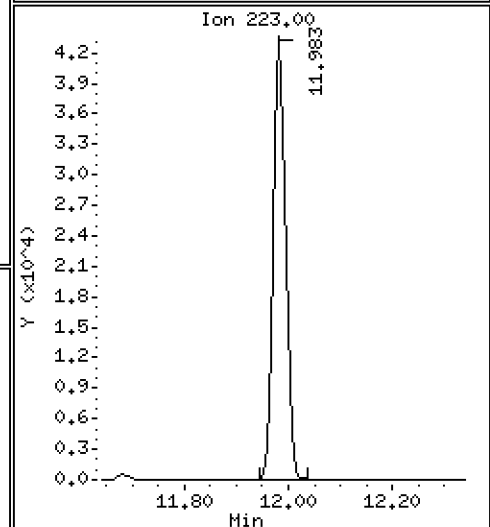
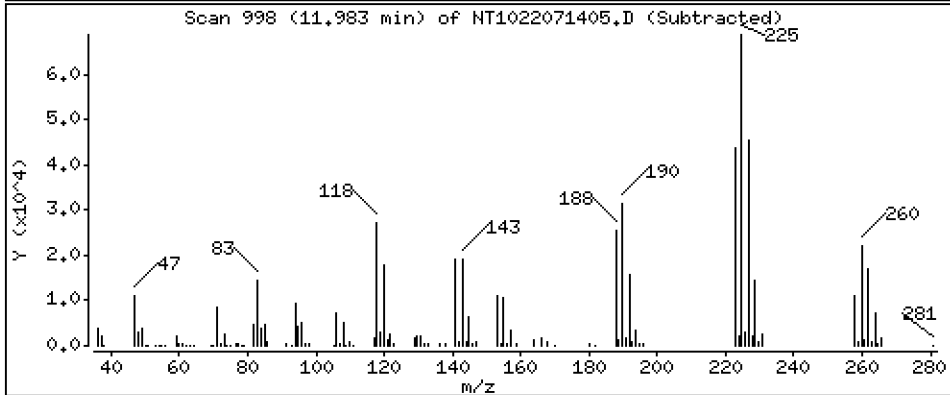
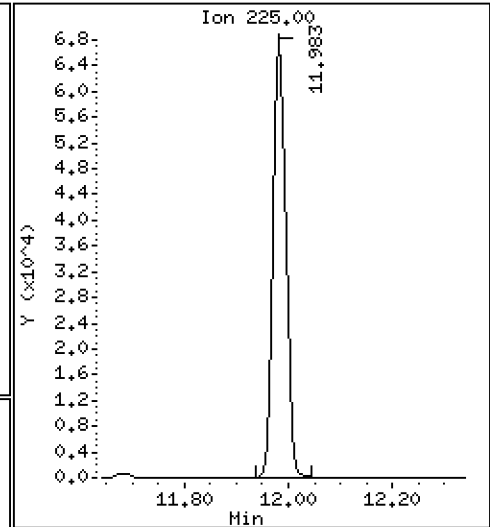
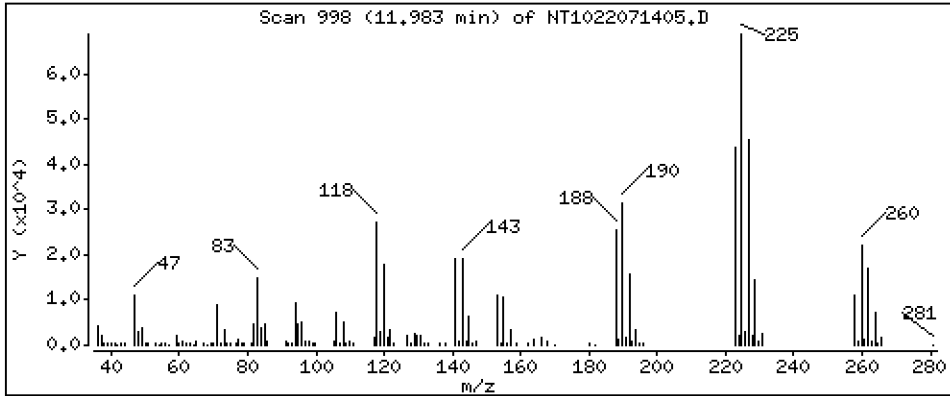
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,373 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

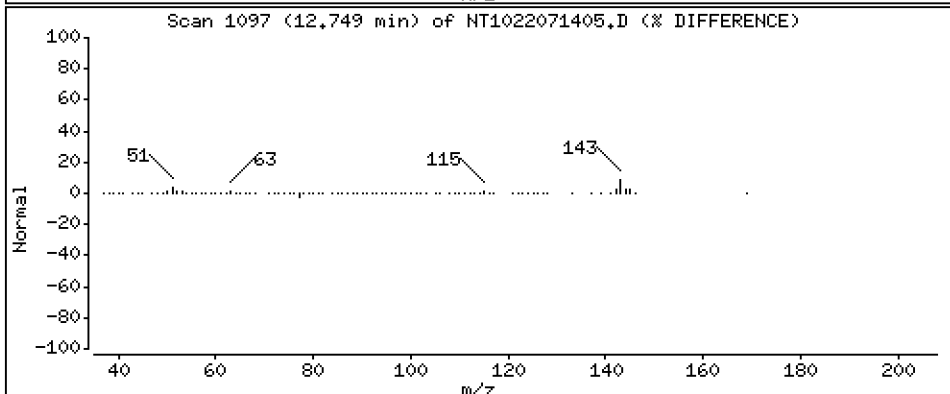
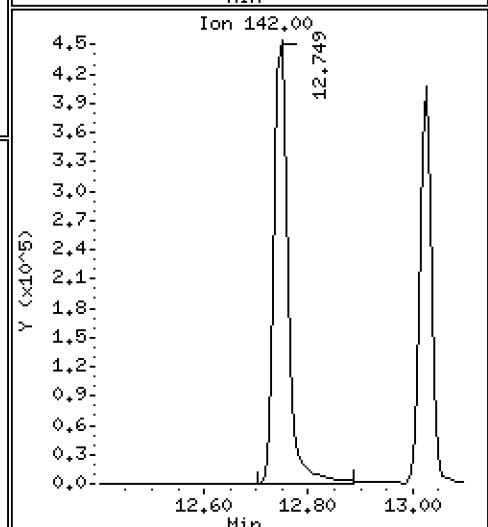
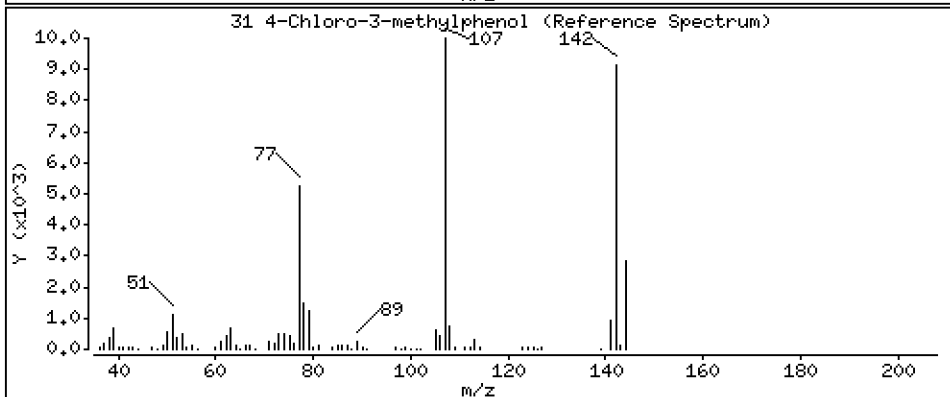
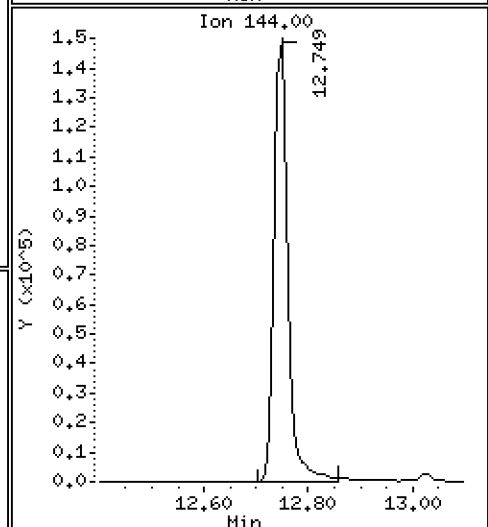
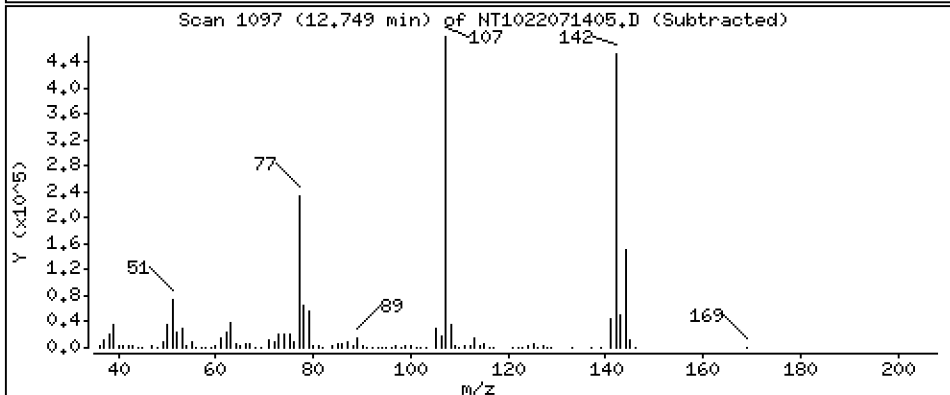
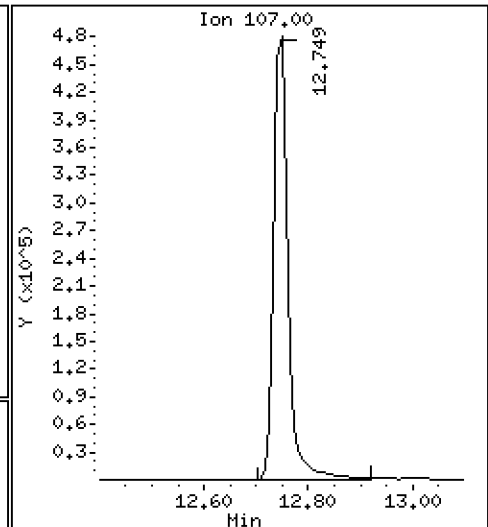
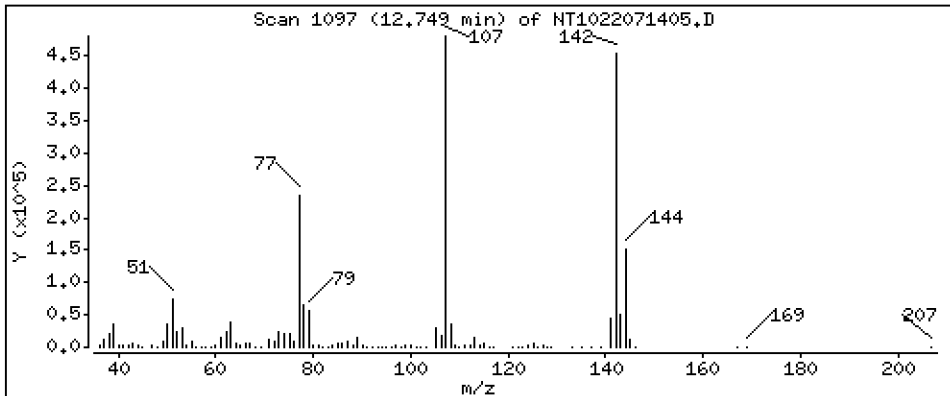
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 14,05 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

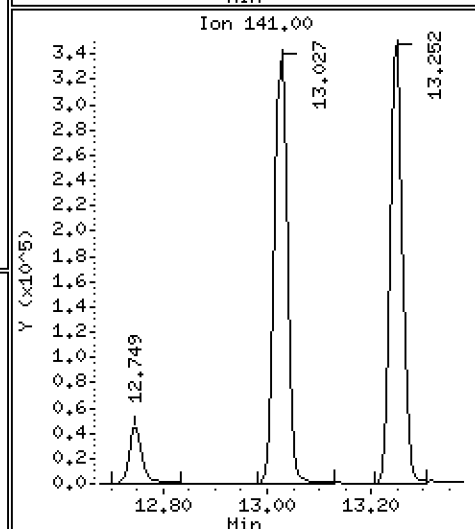
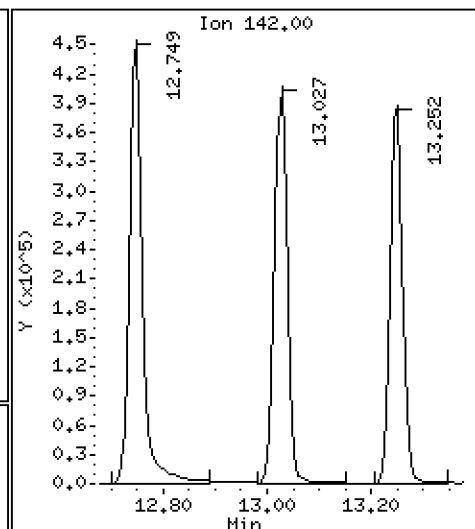
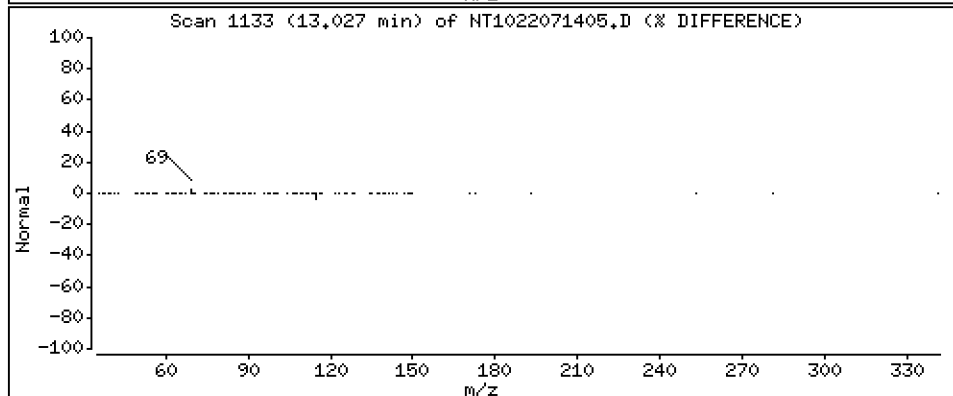
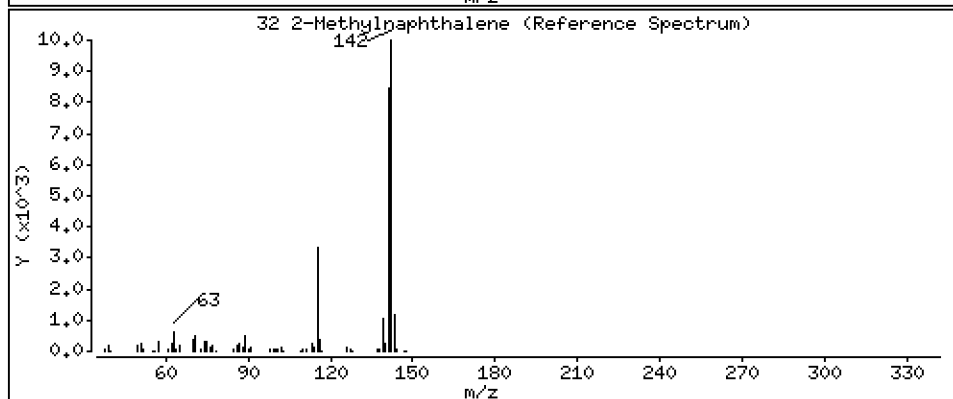
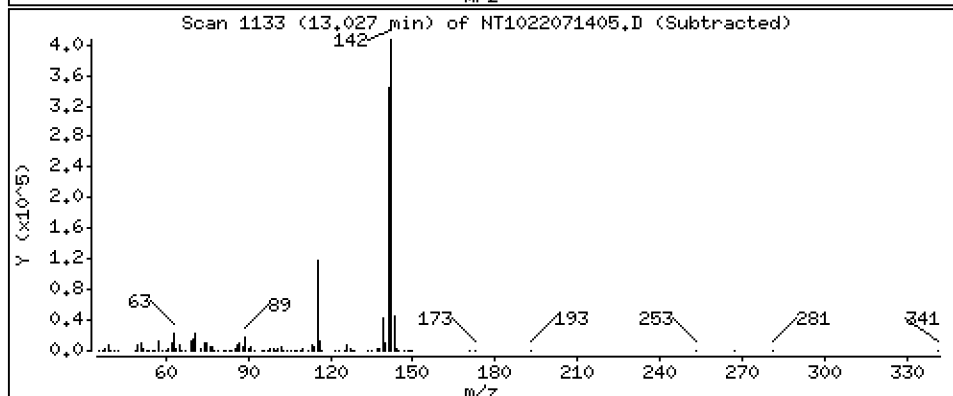
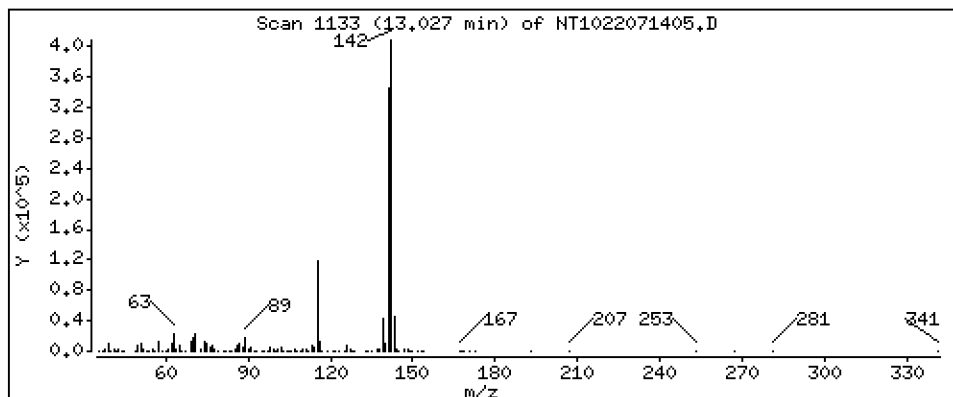
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,297 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

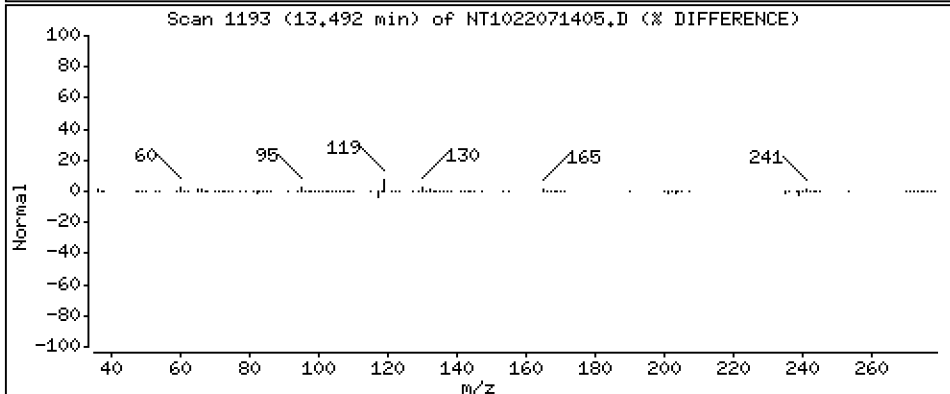
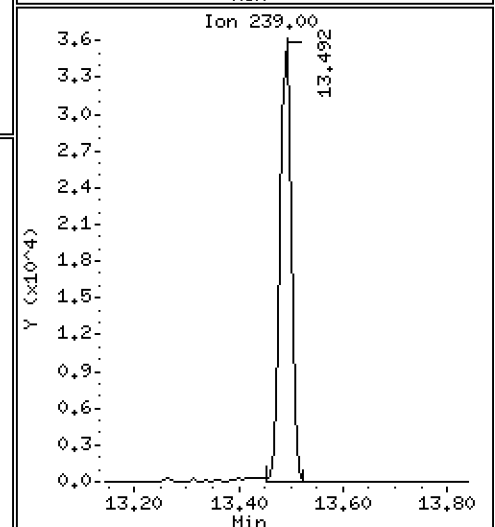
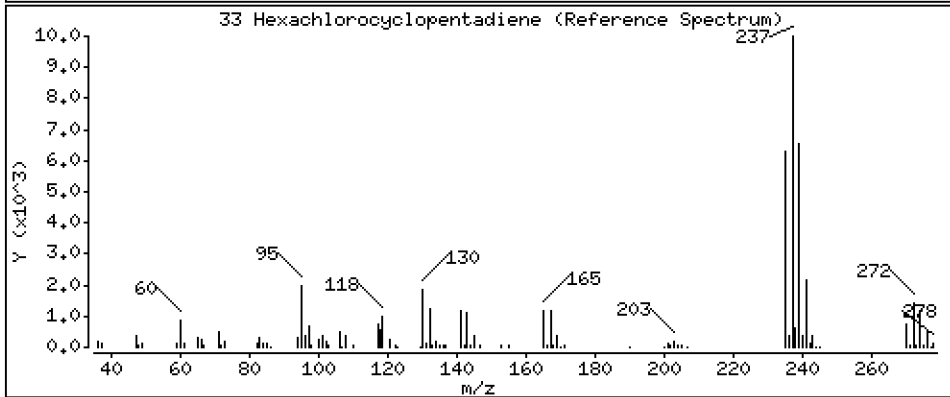
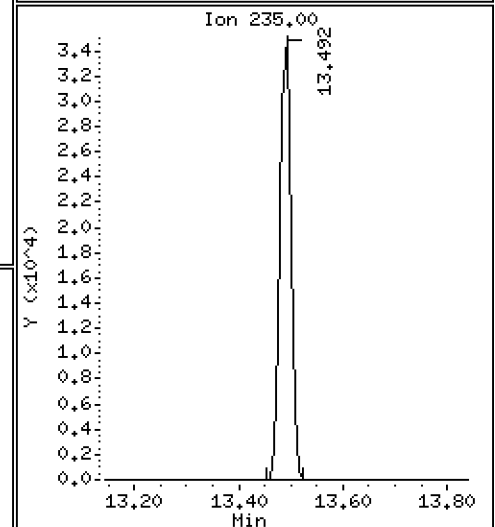
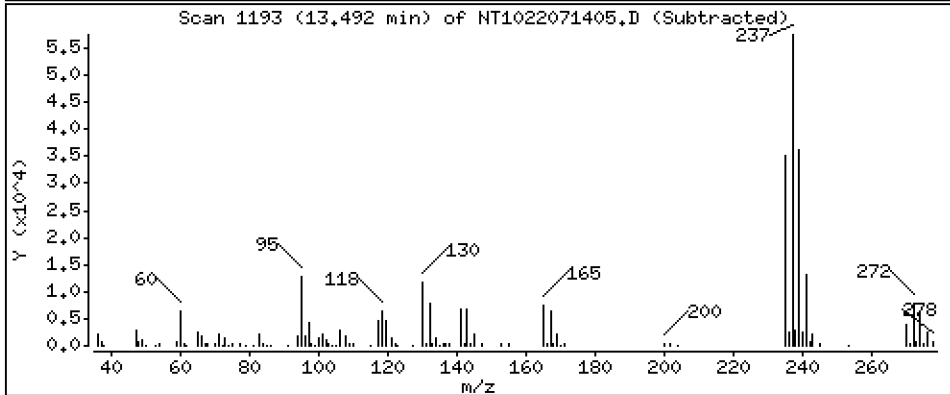
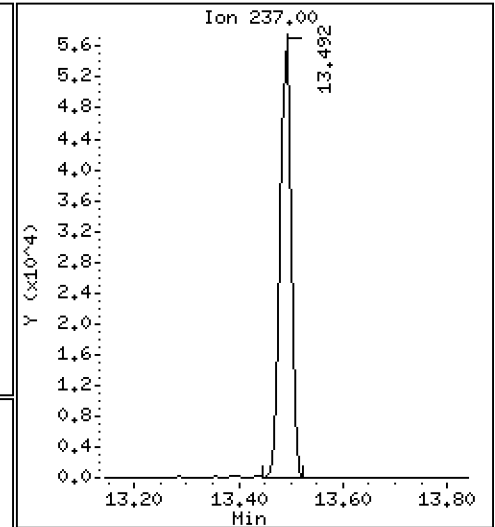
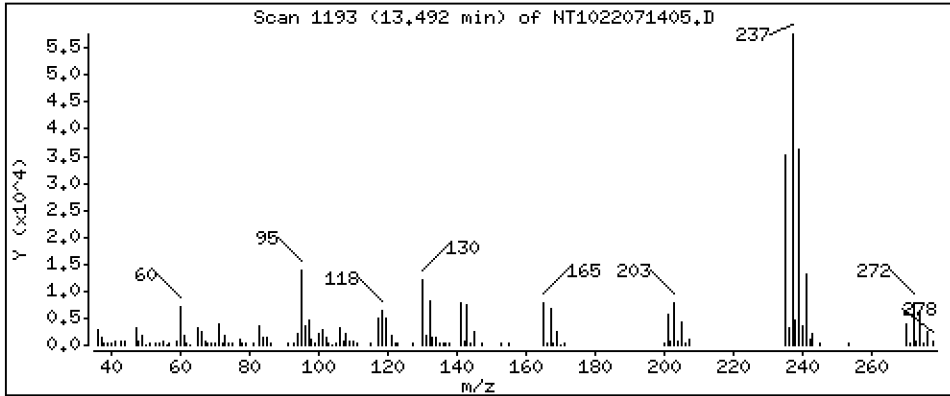
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 3,837 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

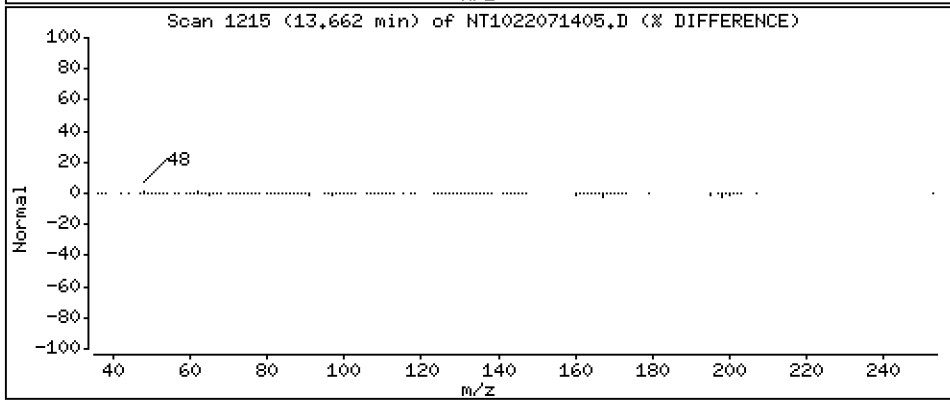
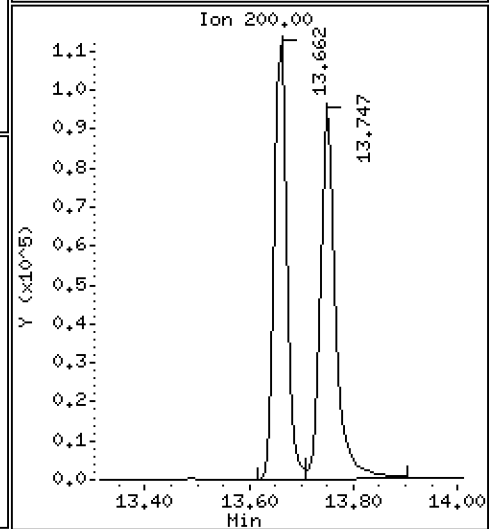
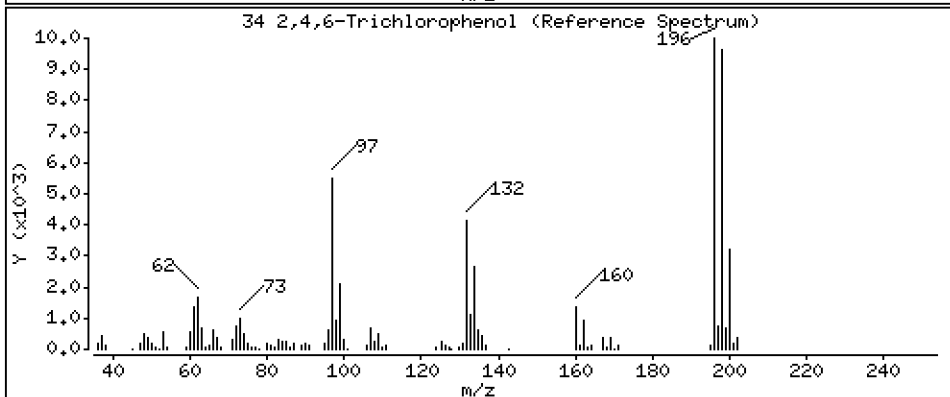
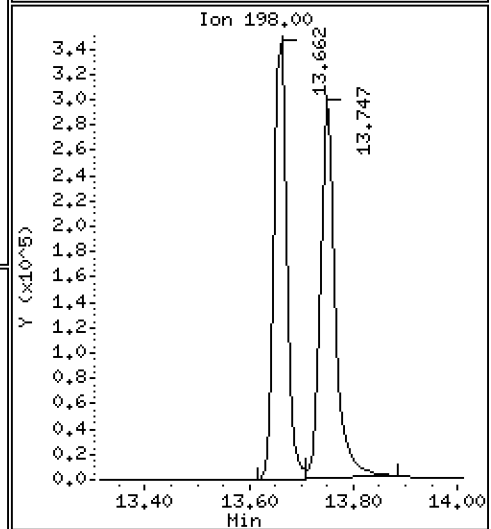
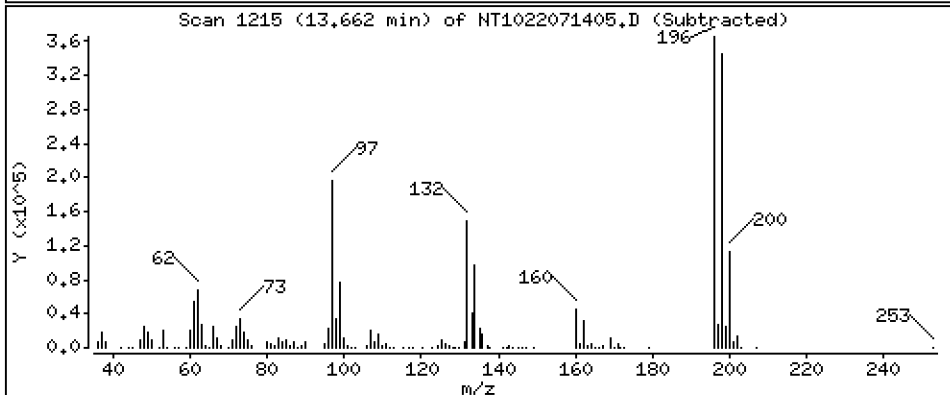
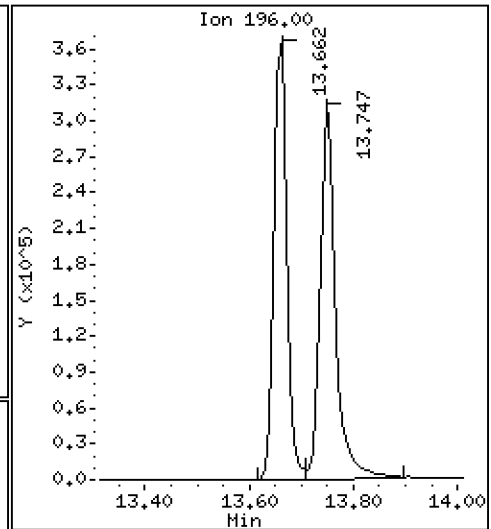
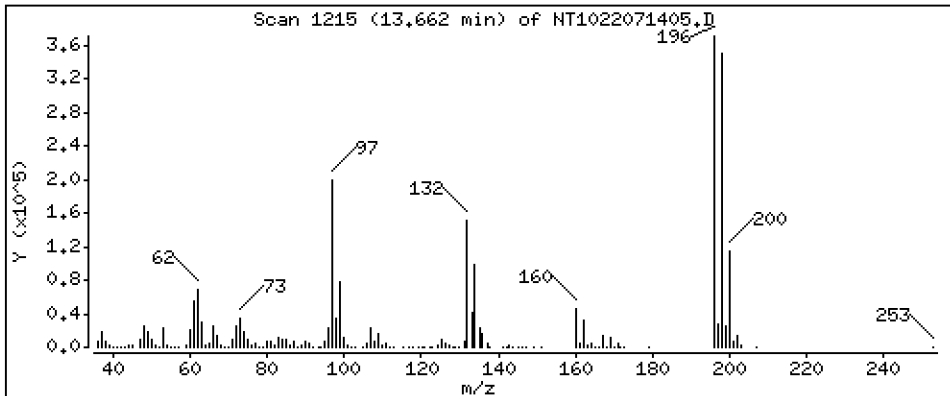
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 15,18 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

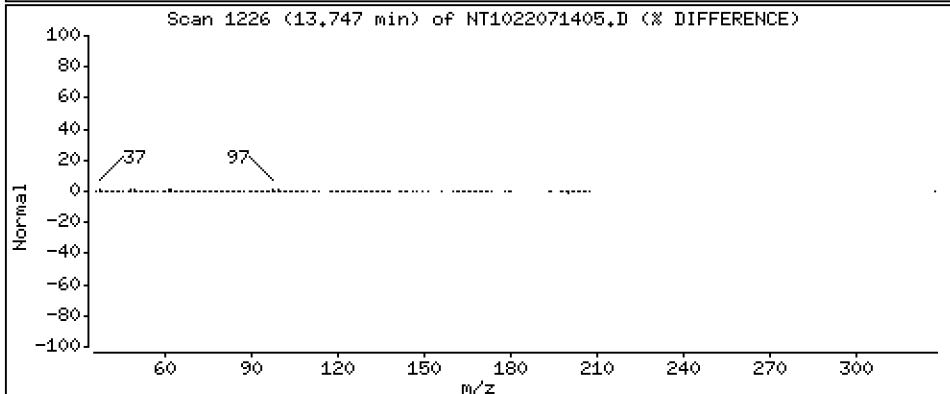
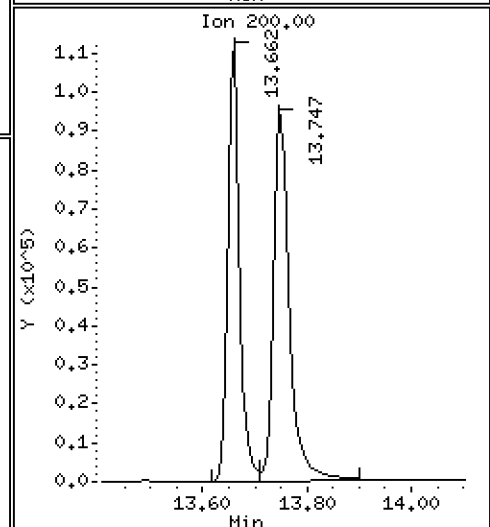
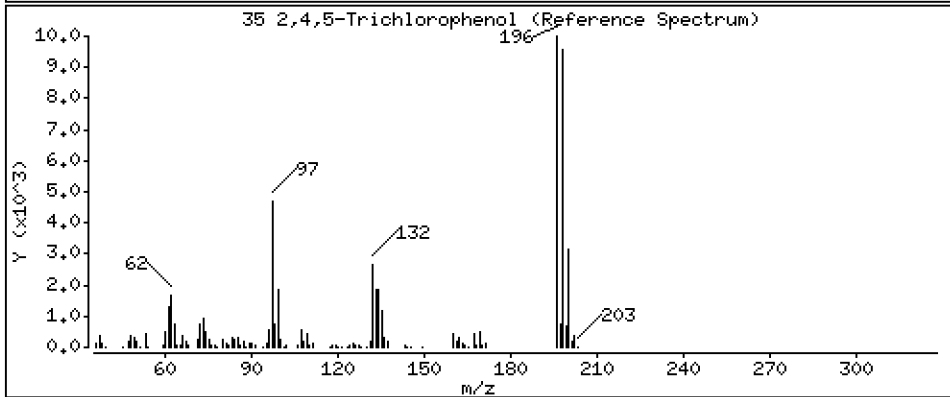
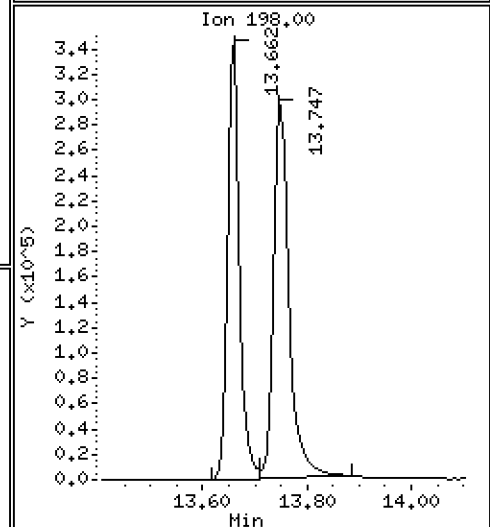
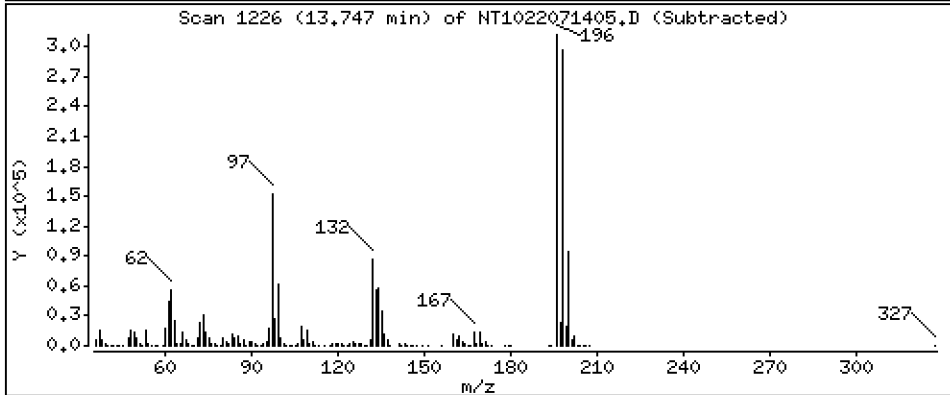
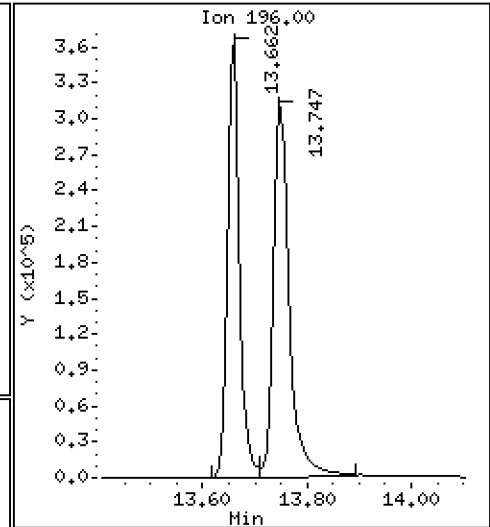
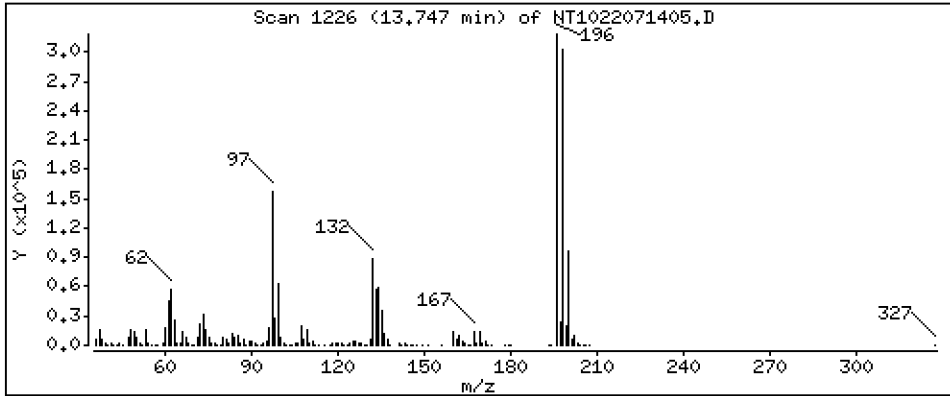
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 13,39 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

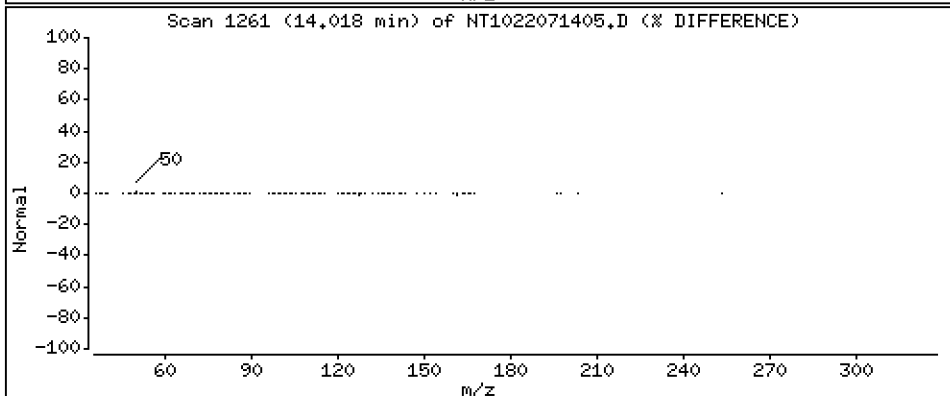
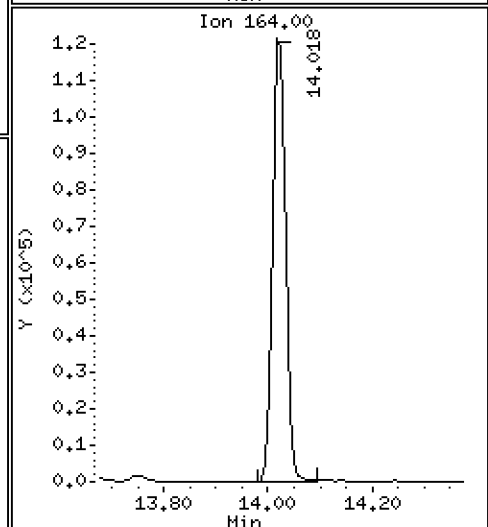
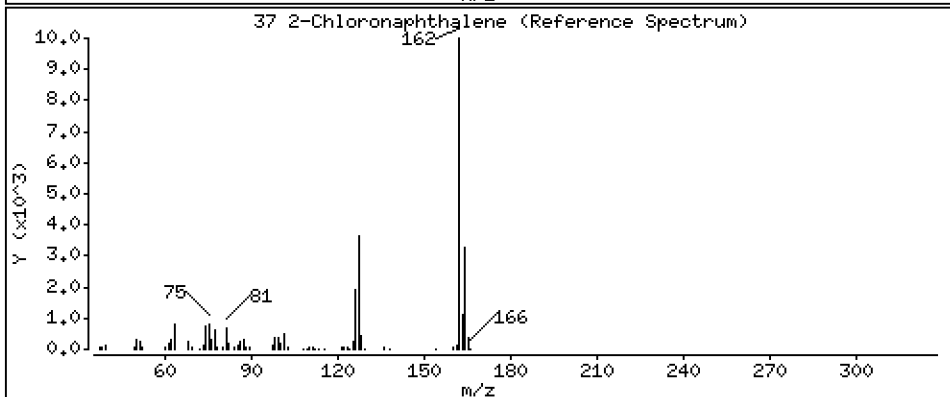
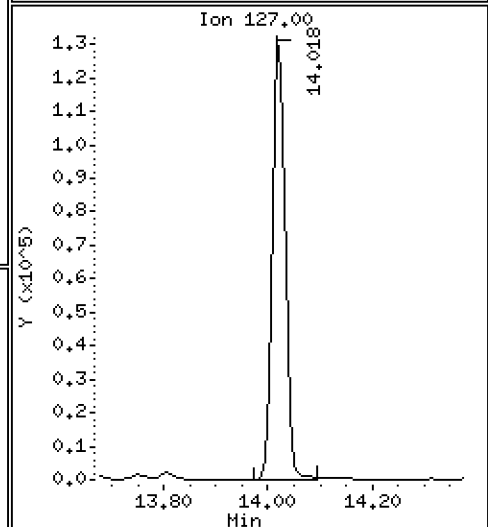
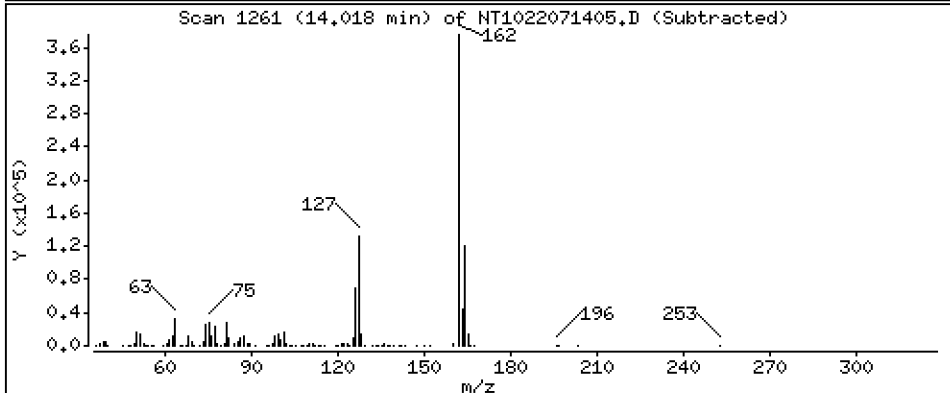
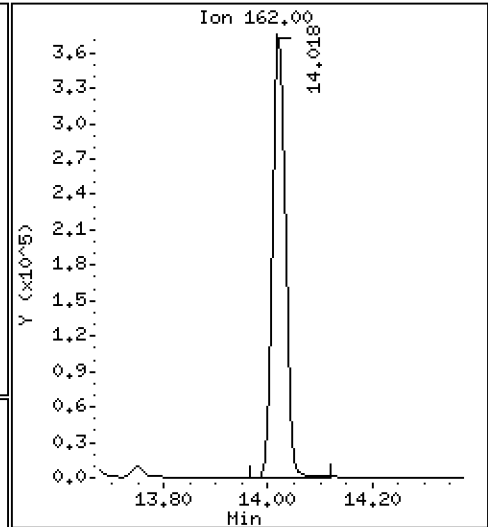
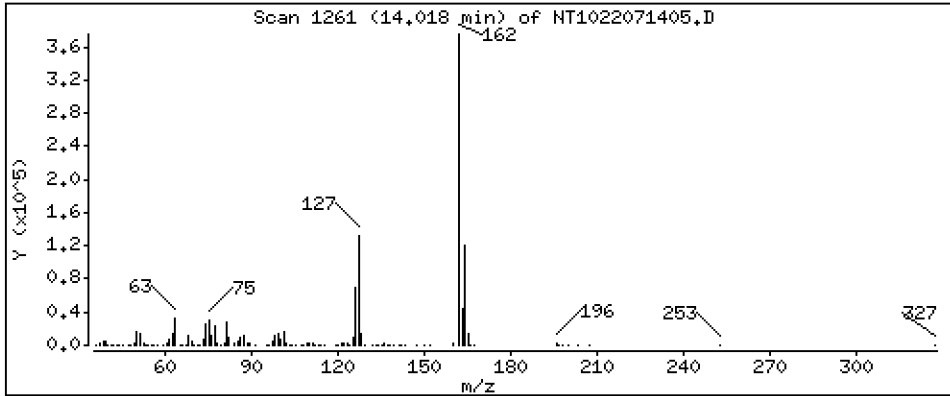
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,499 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

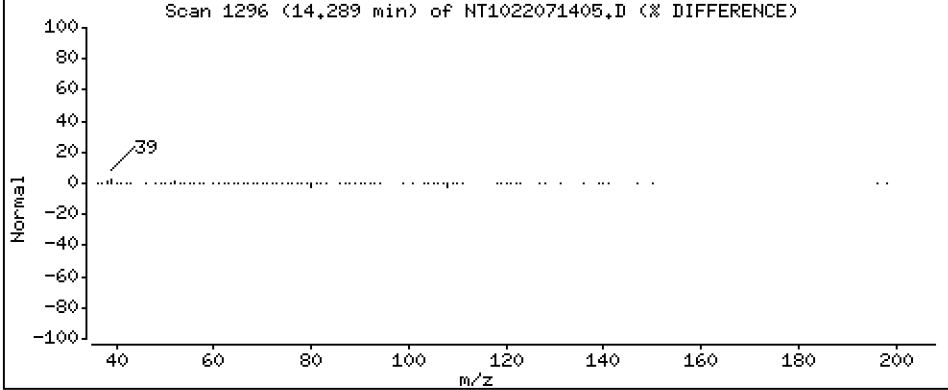
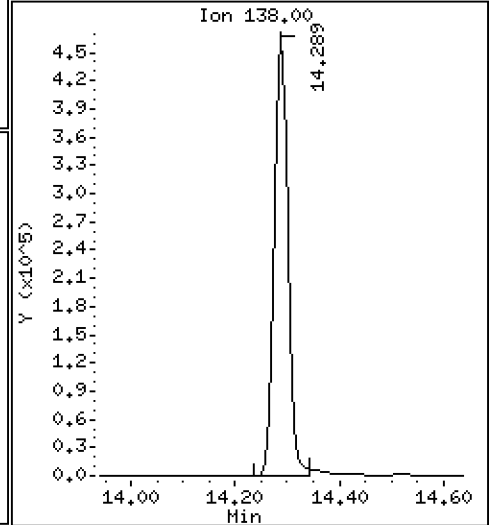
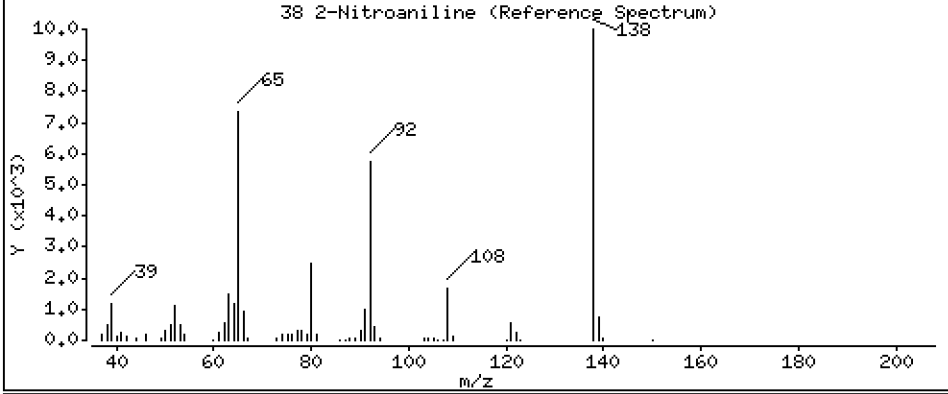
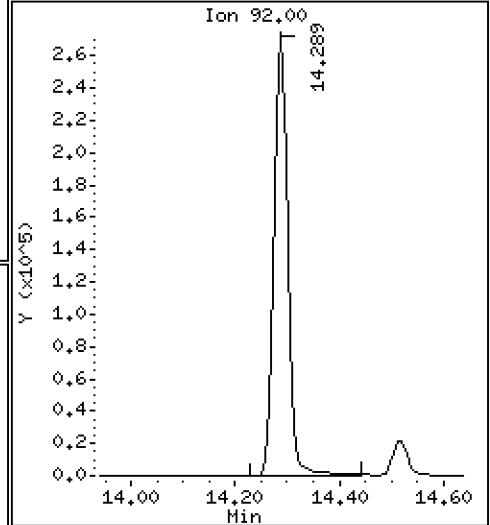
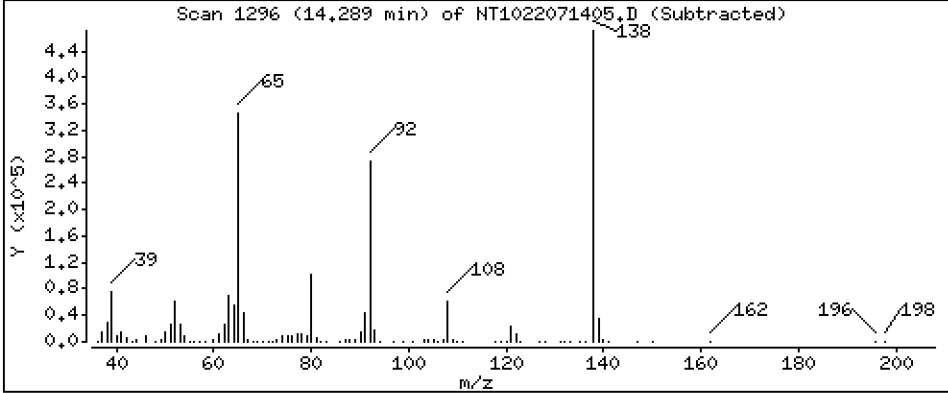
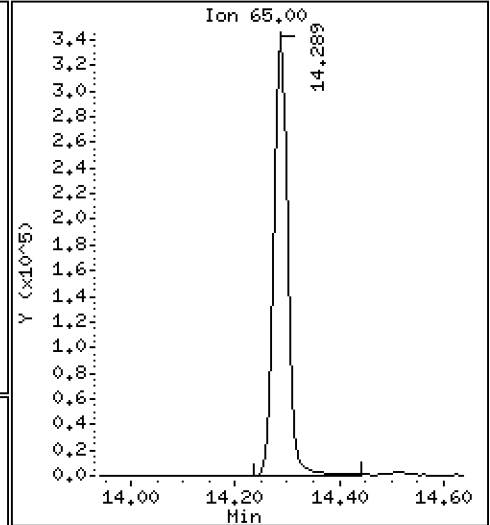
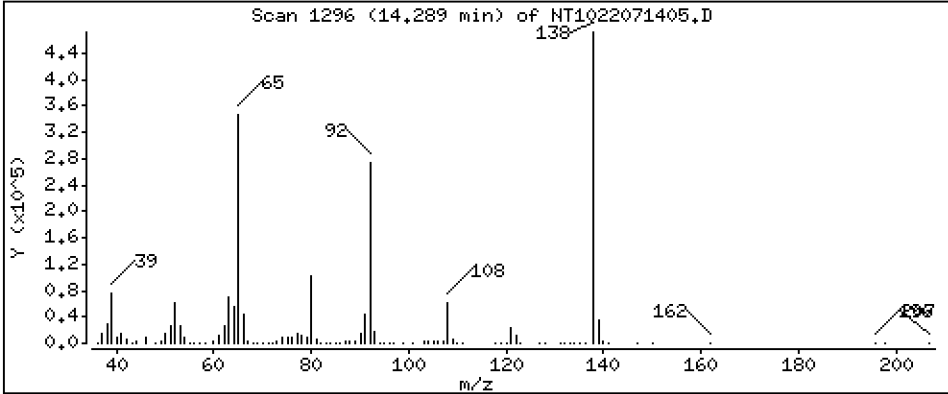
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 16,41 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

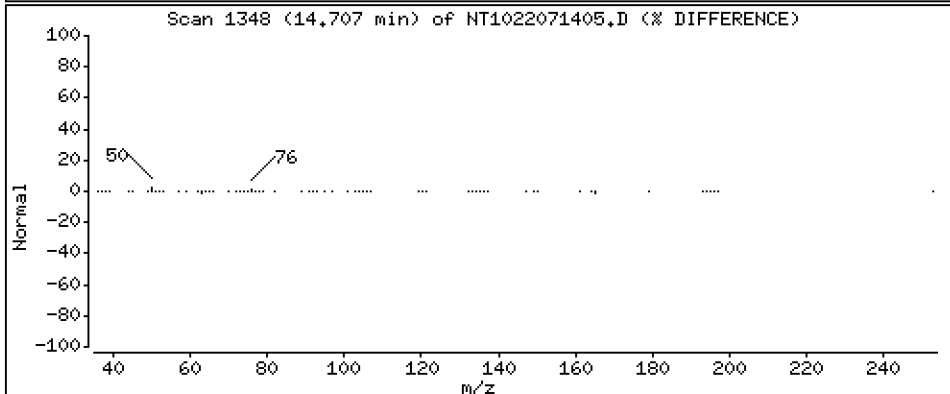
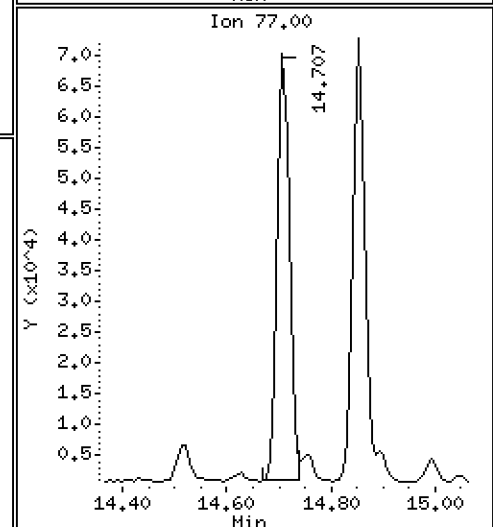
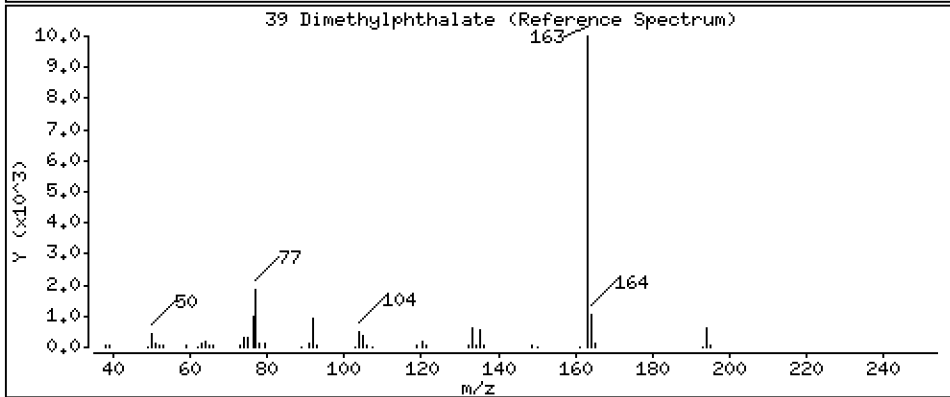
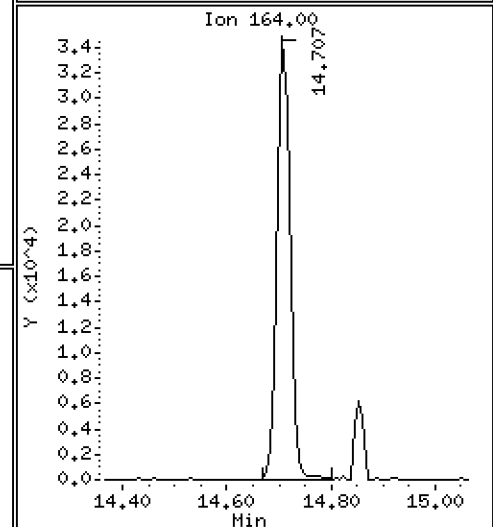
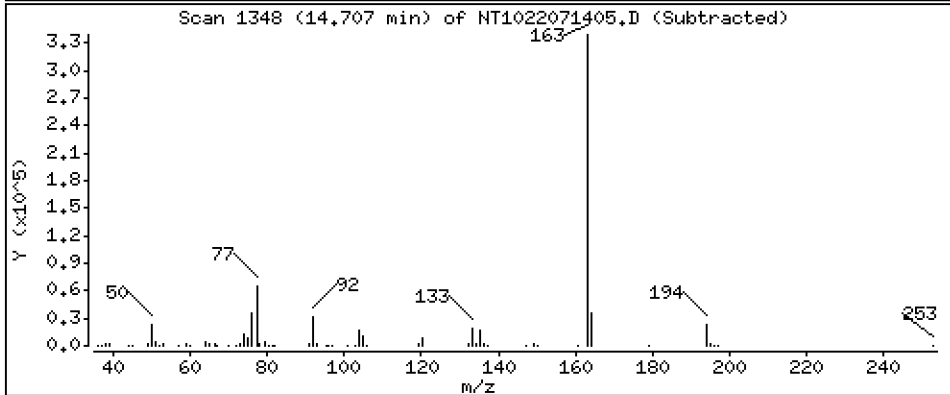
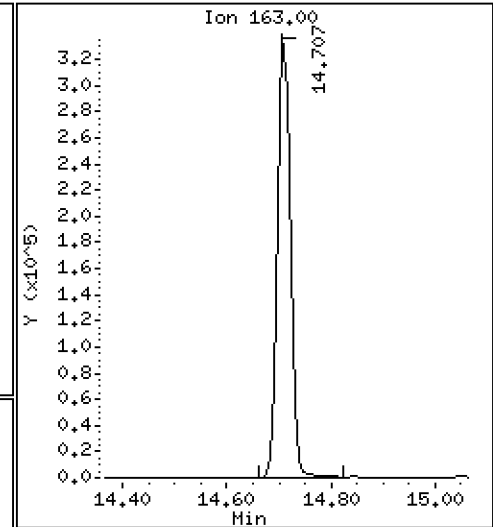
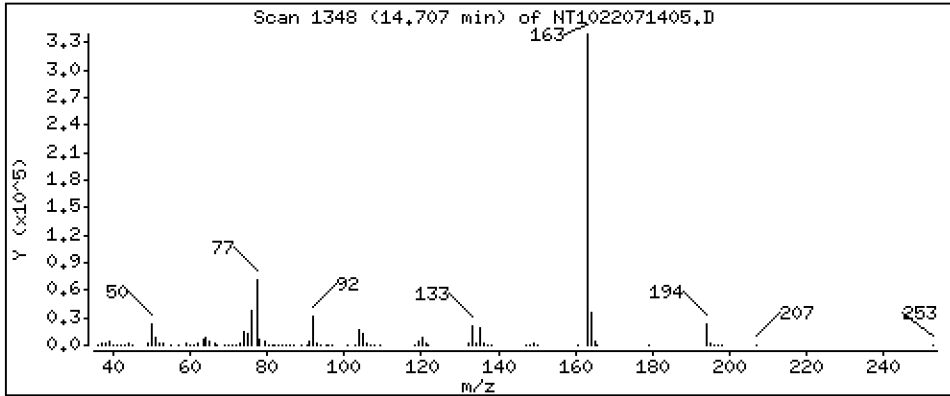
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,514 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

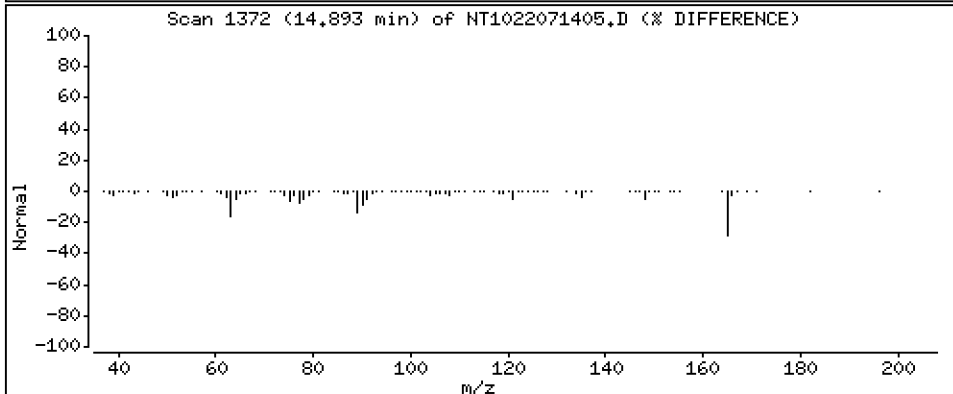
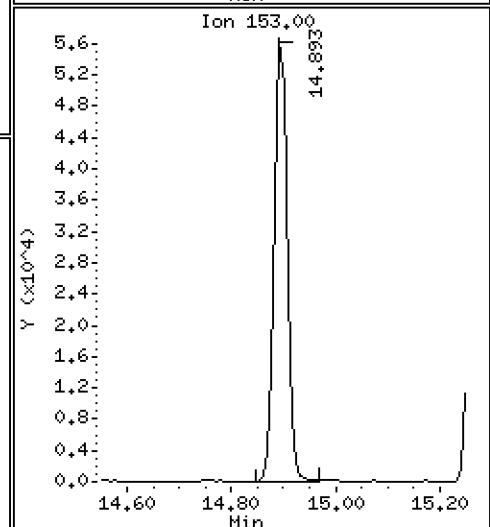
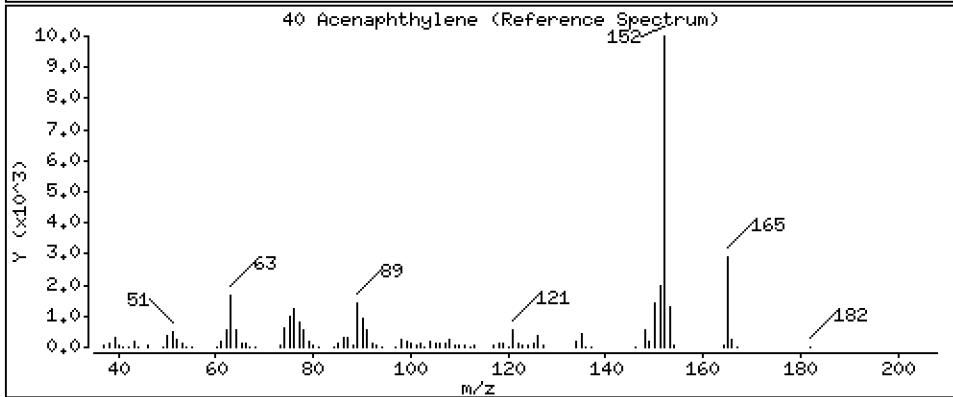
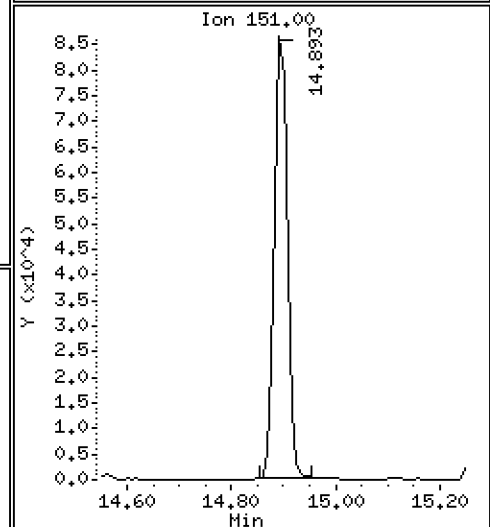
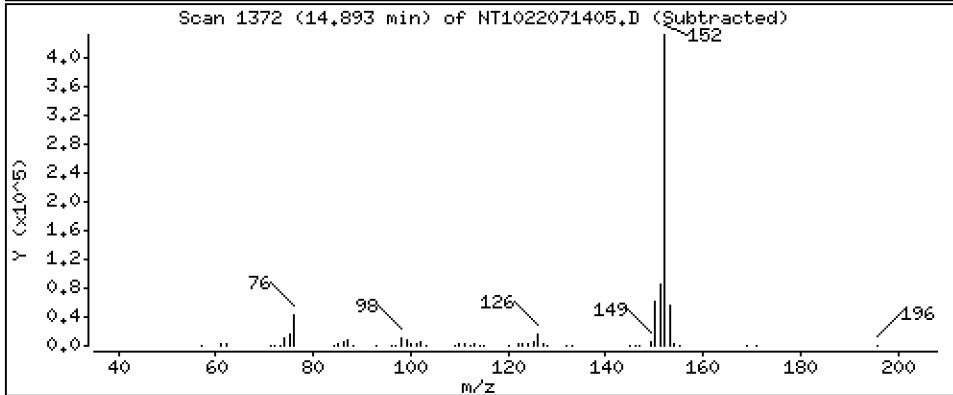
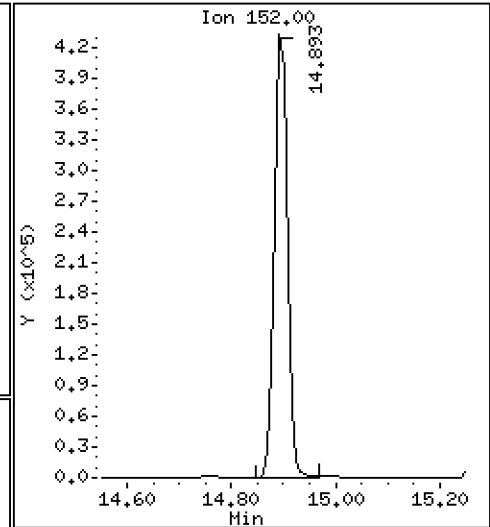
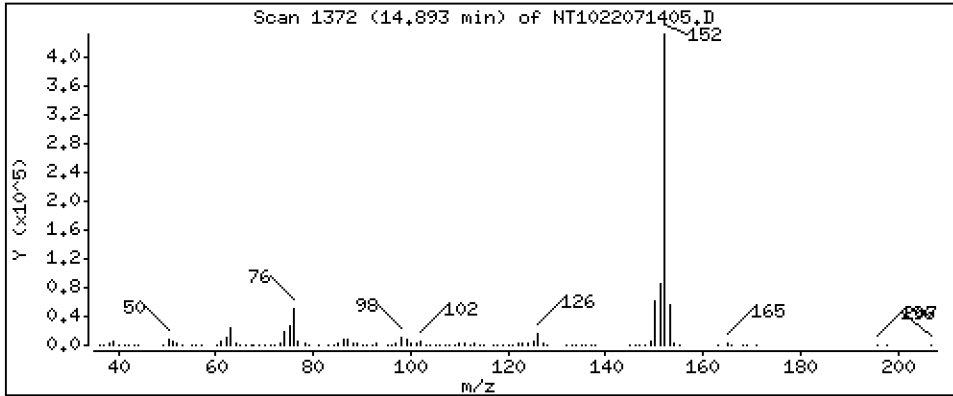
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 3,511 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

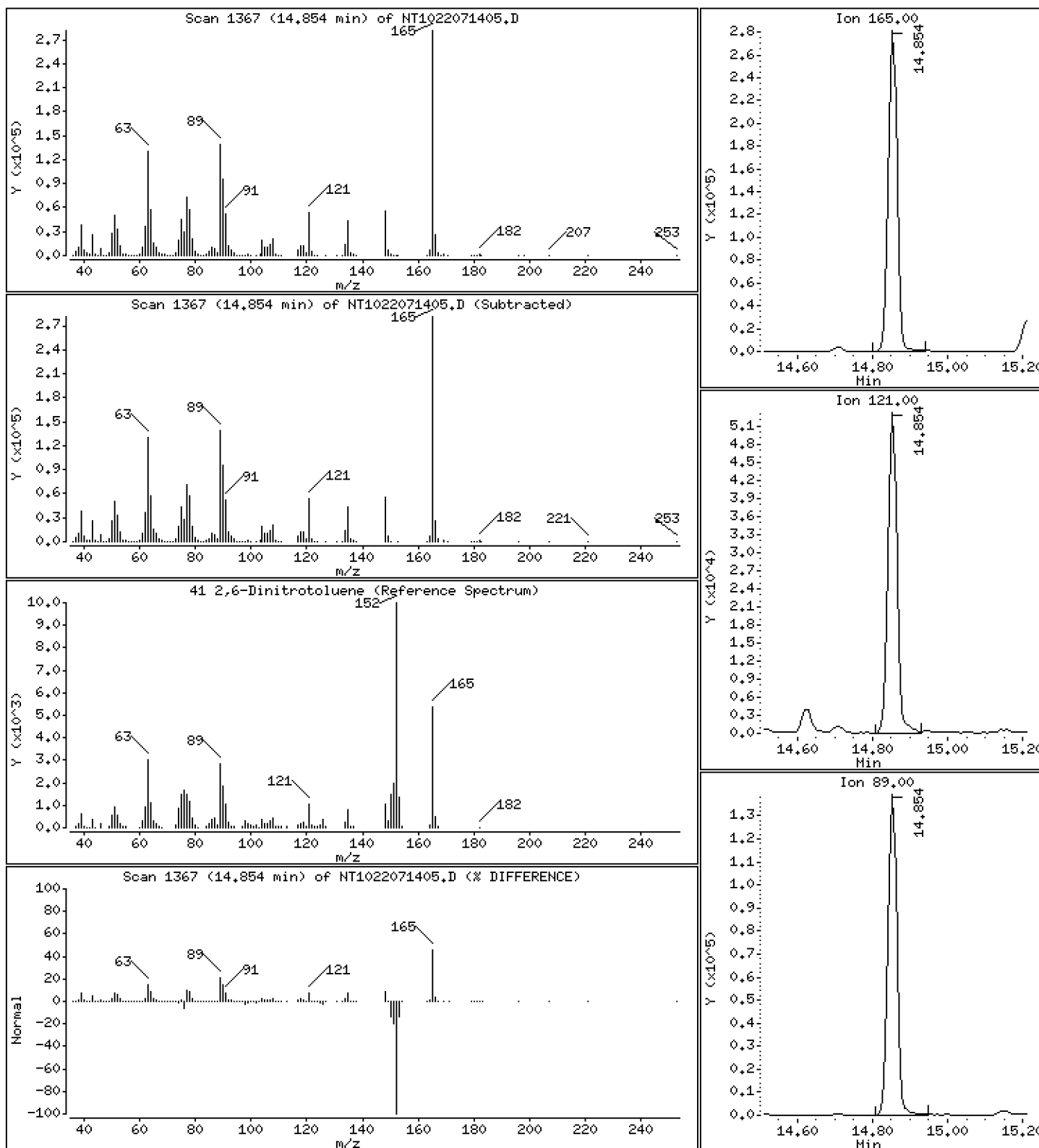
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 15,35 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

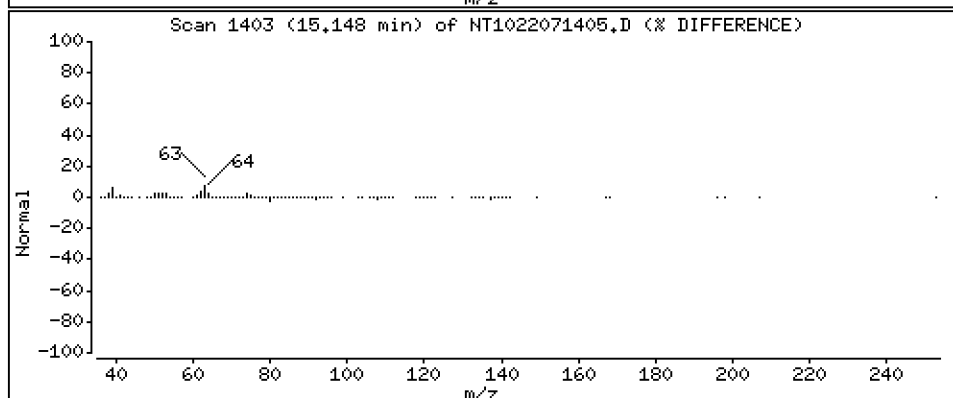
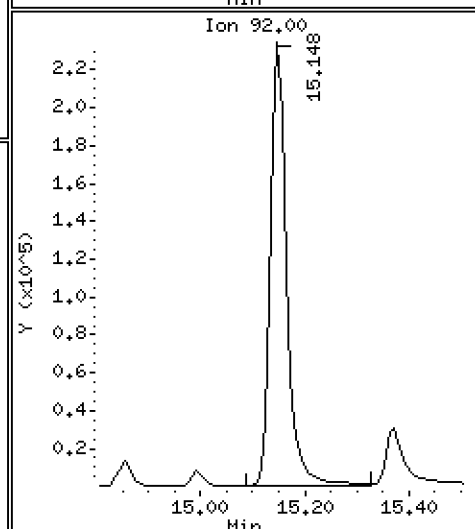
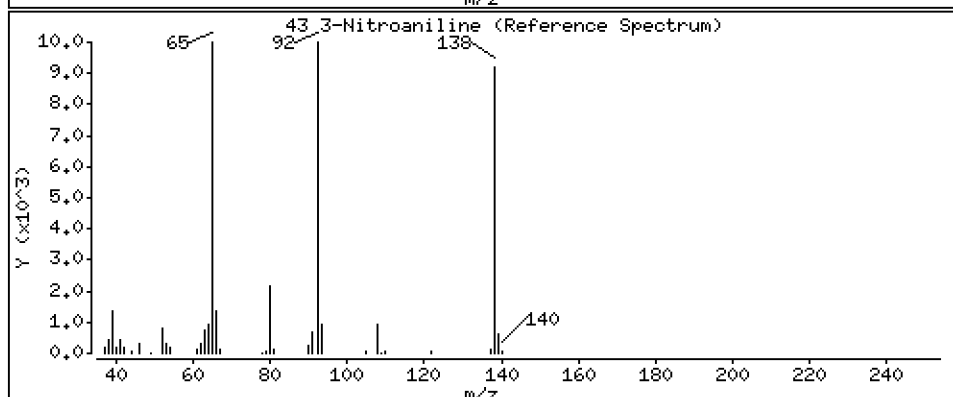
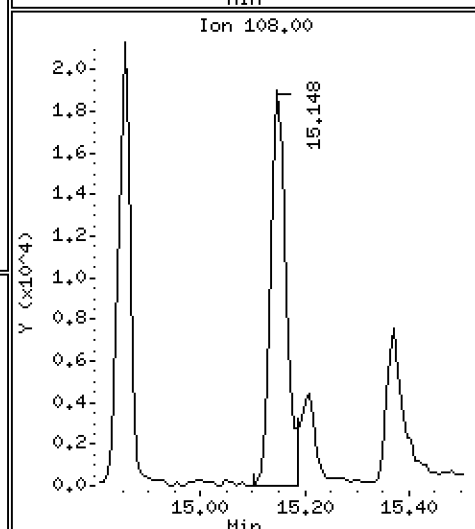
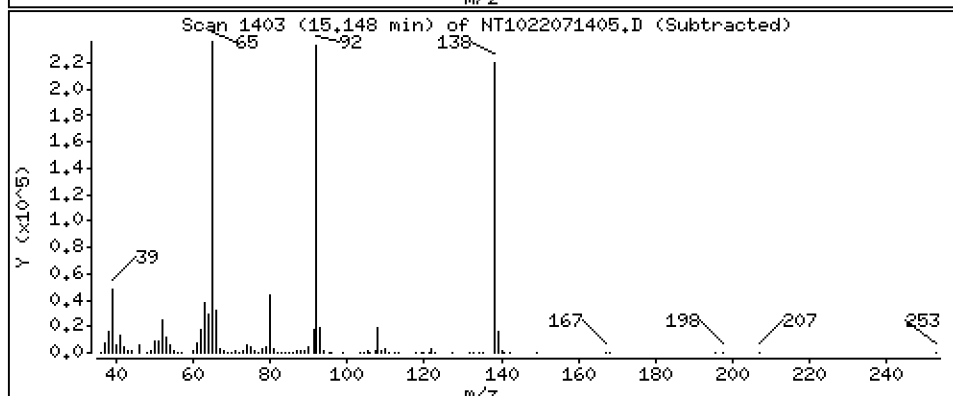
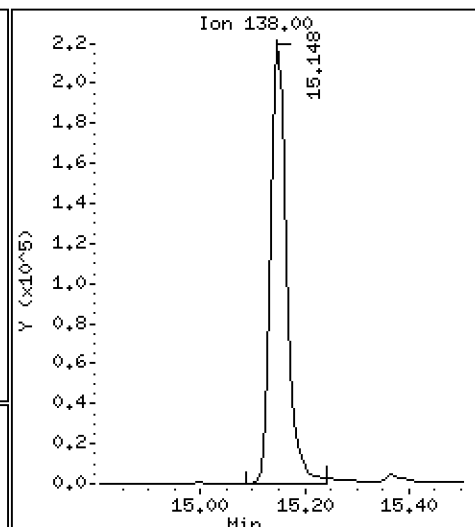
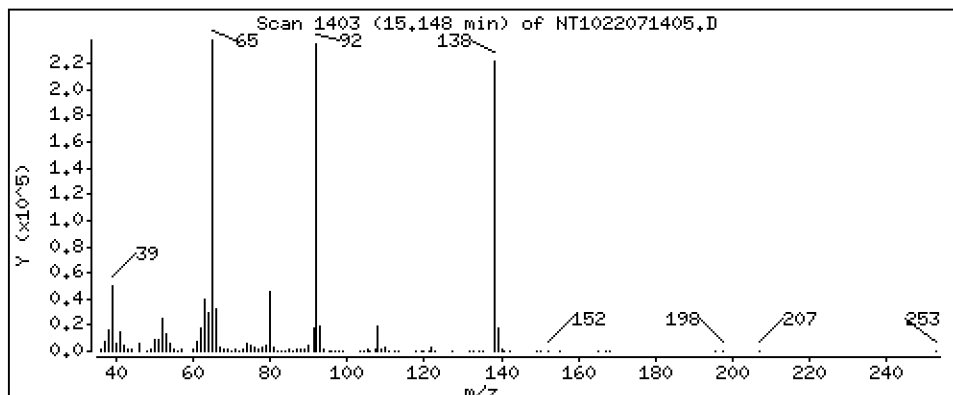
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 13,52 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

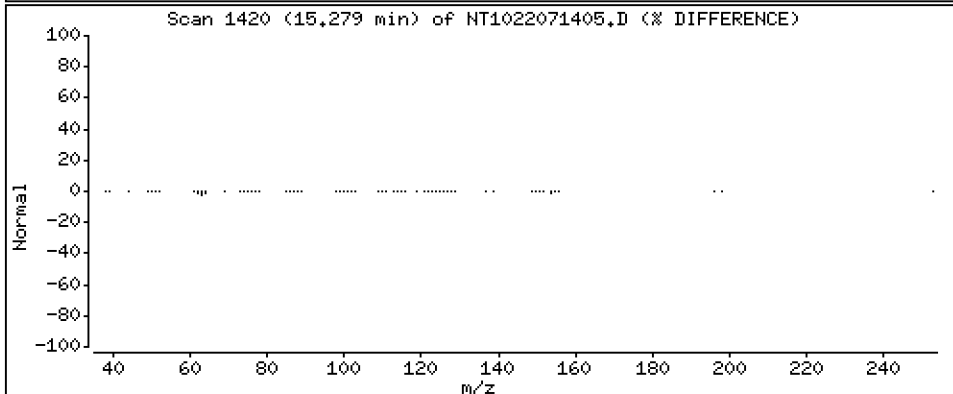
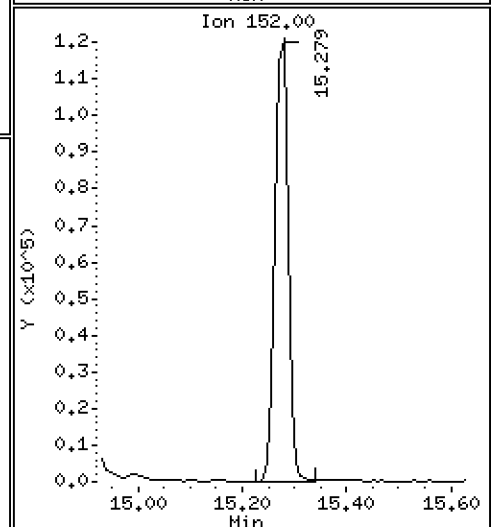
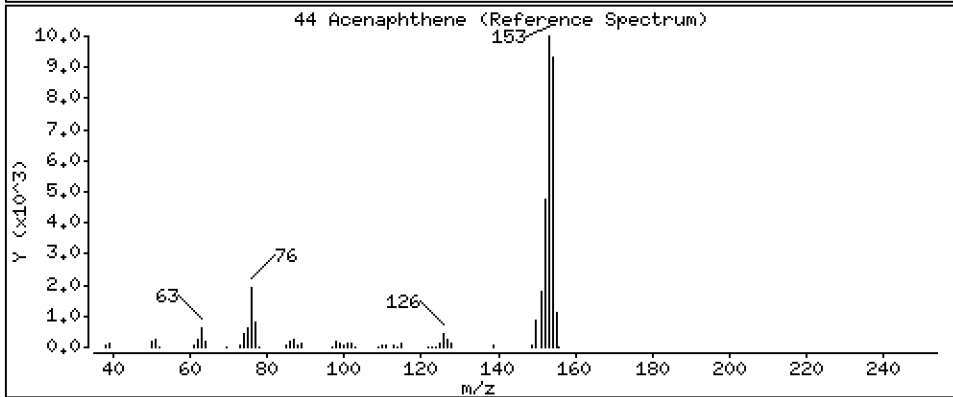
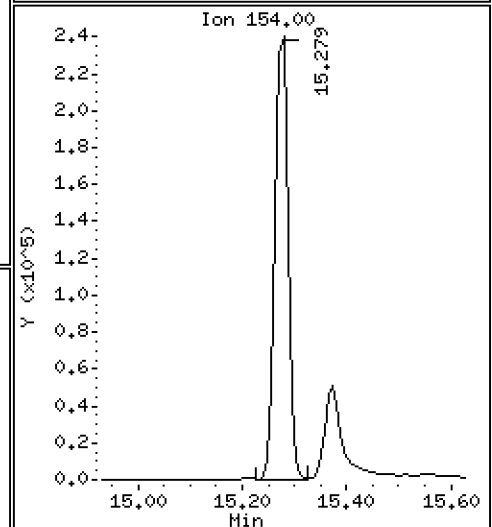
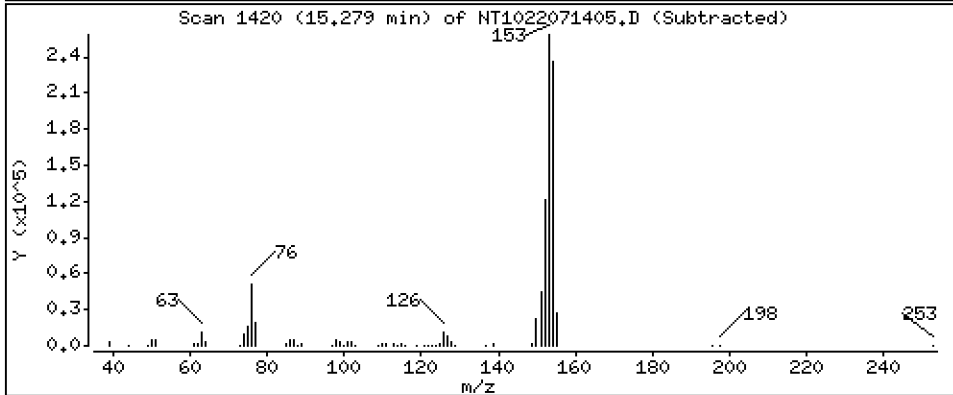
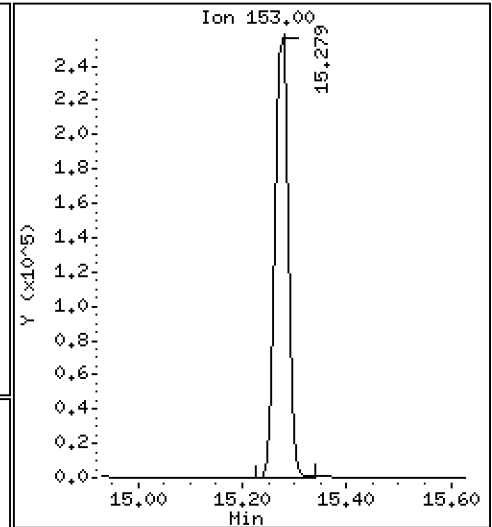
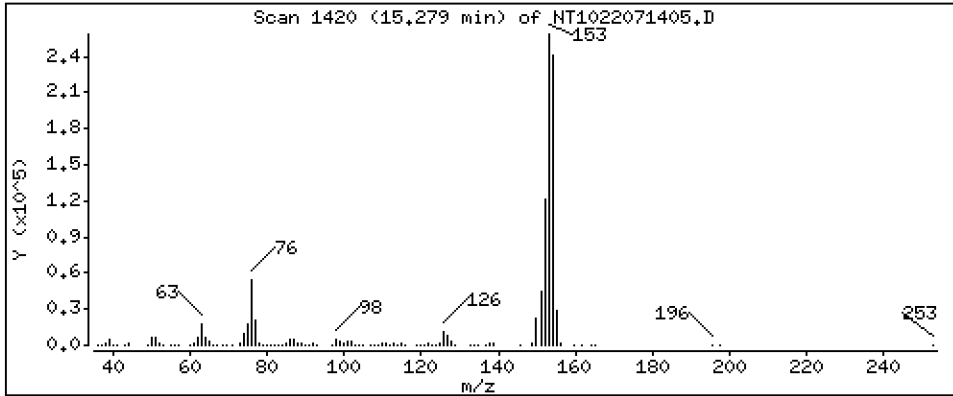
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,255 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

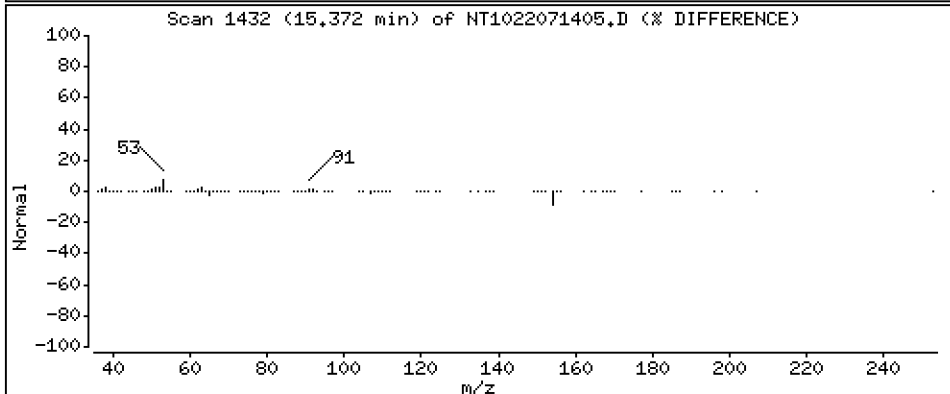
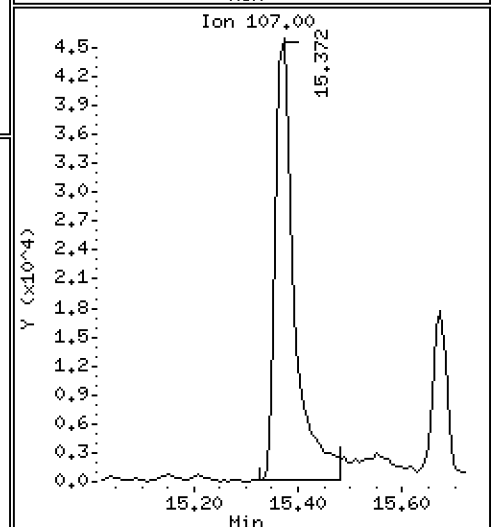
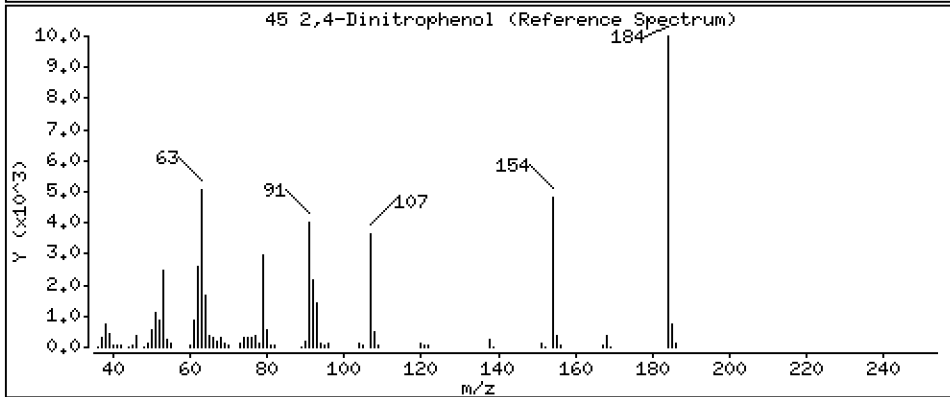
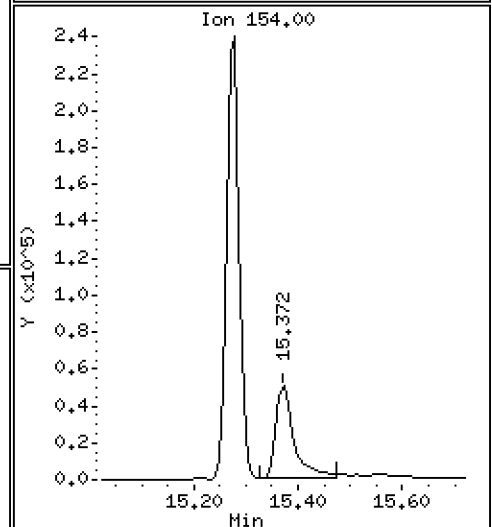
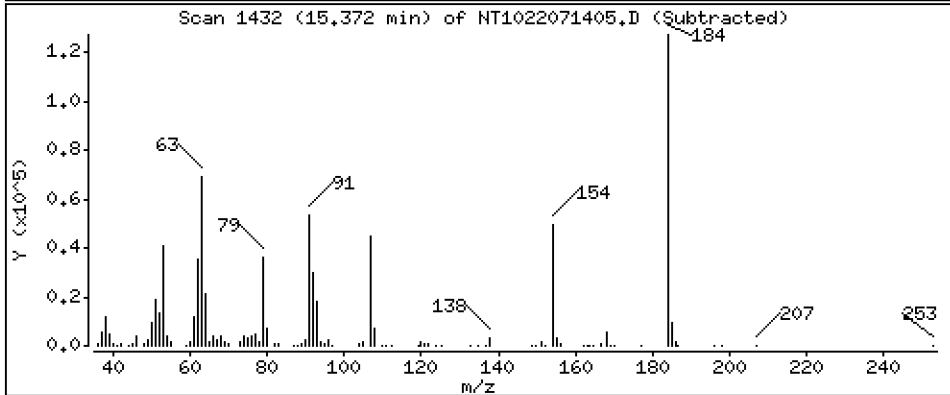
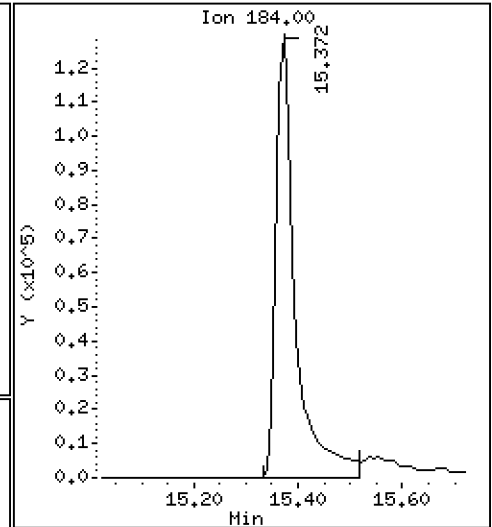
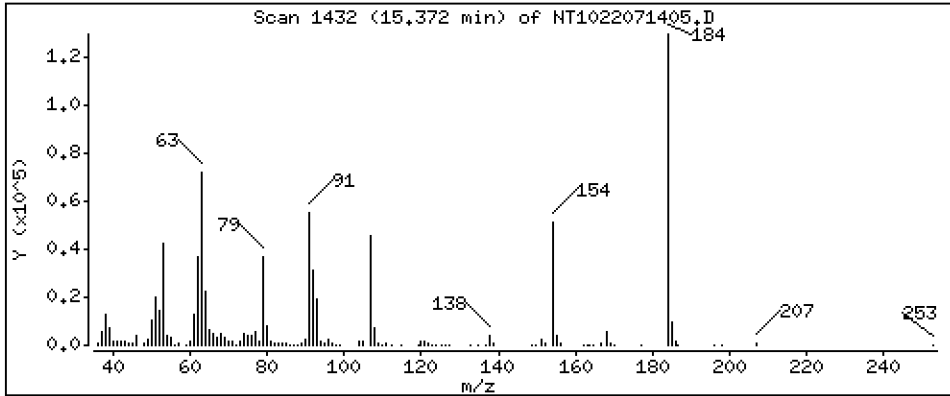
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 24,37 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

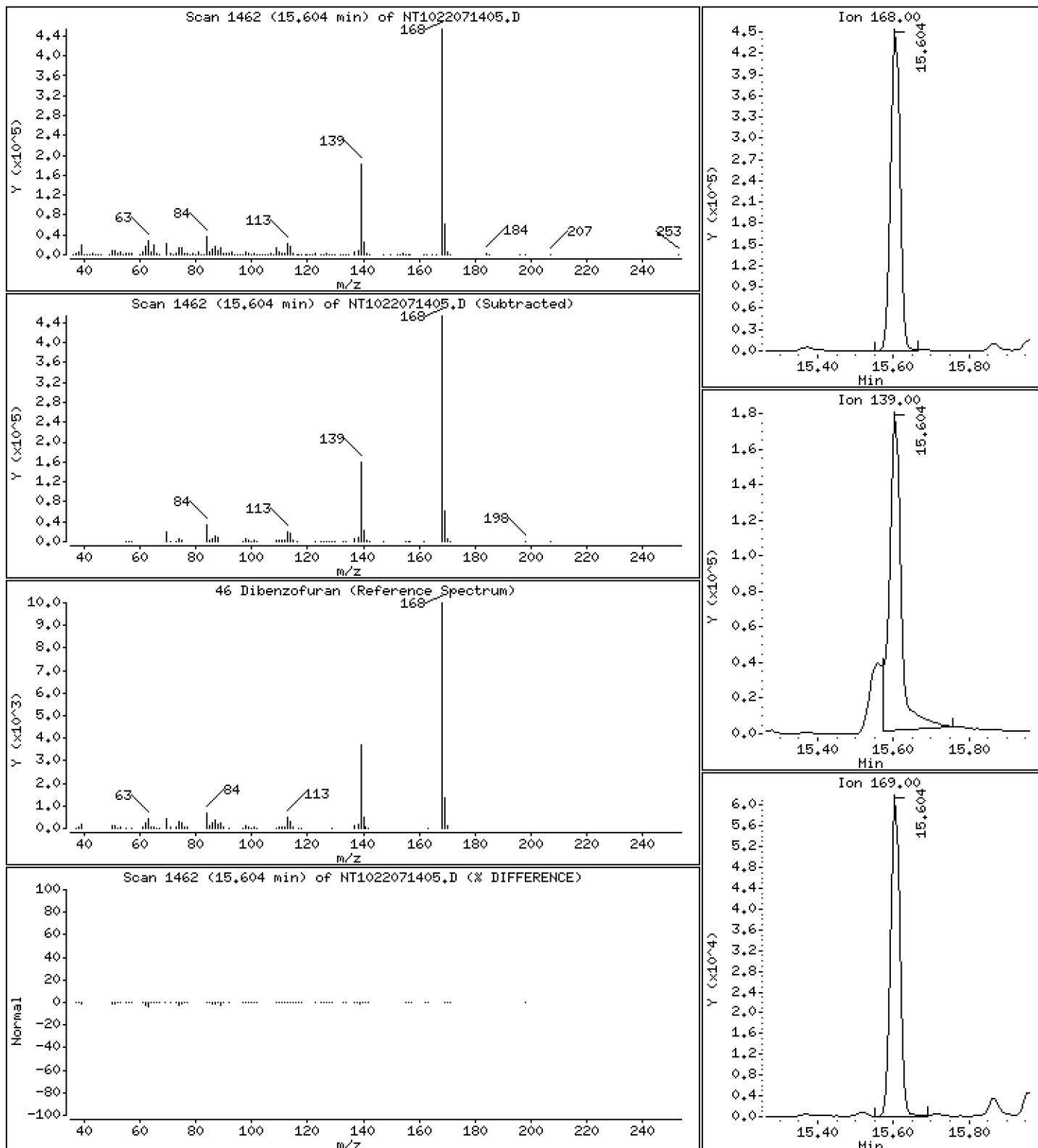
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,561 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

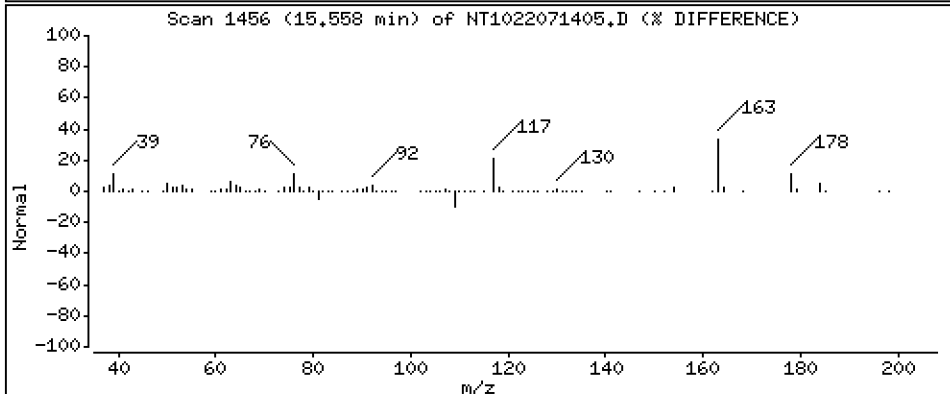
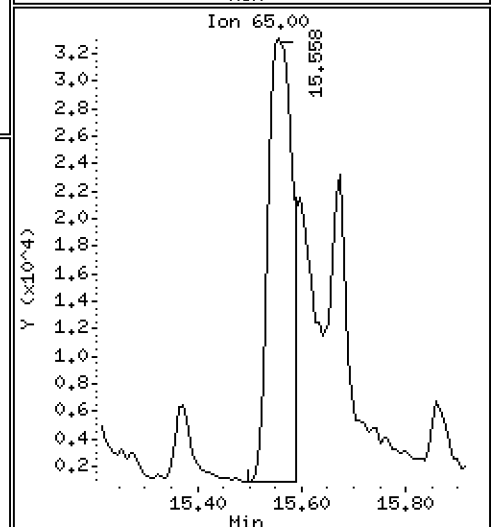
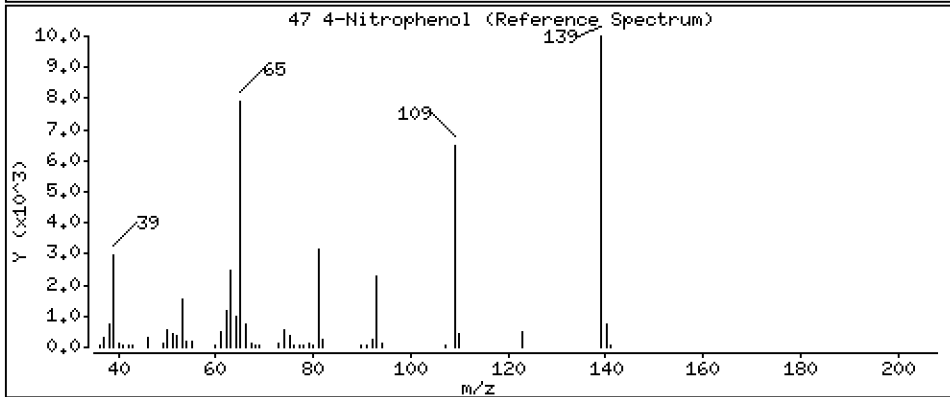
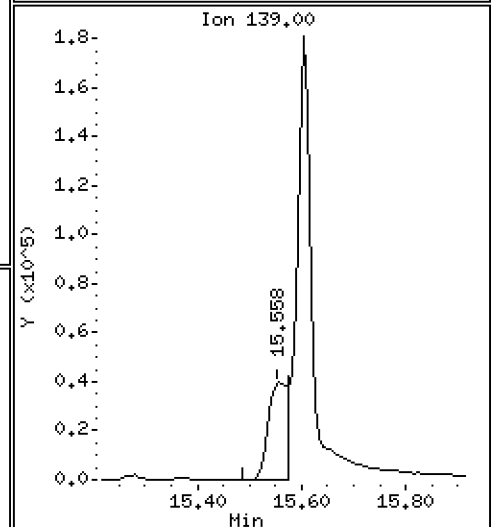
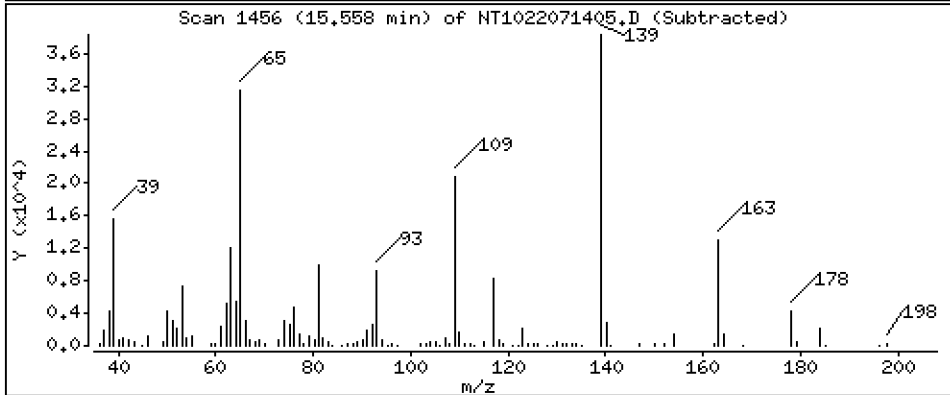
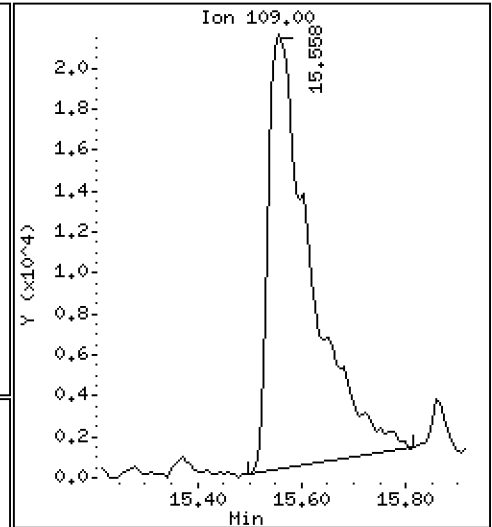
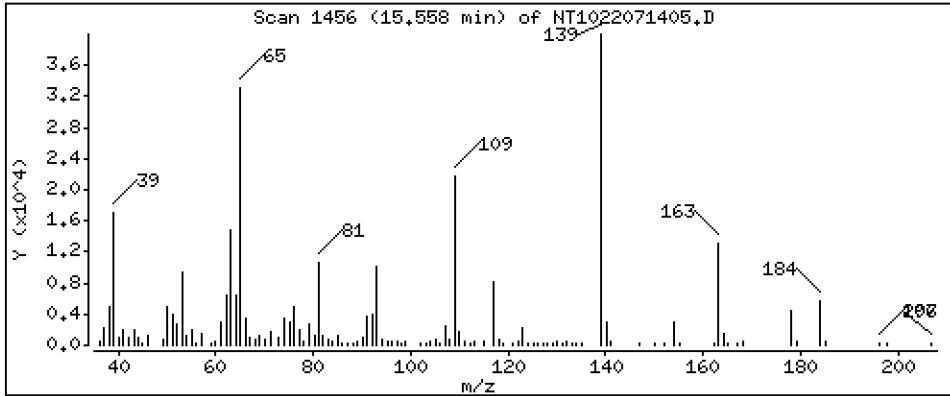
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 10,81 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

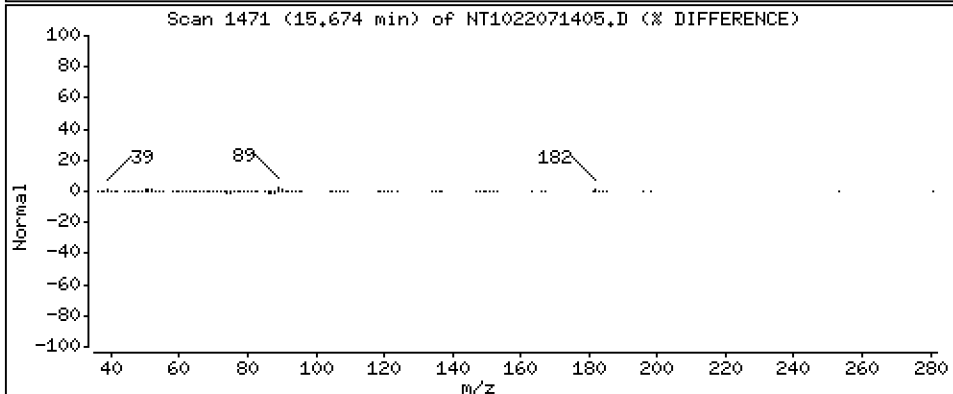
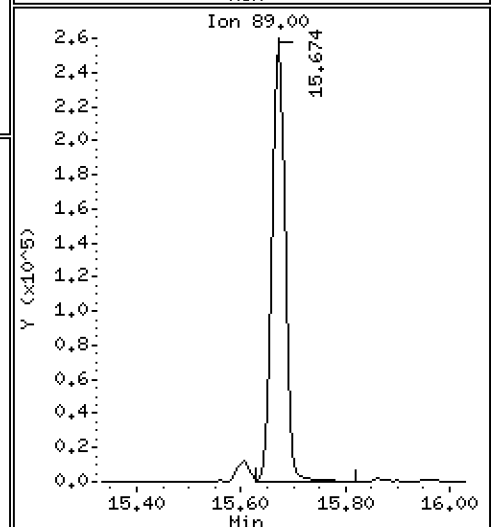
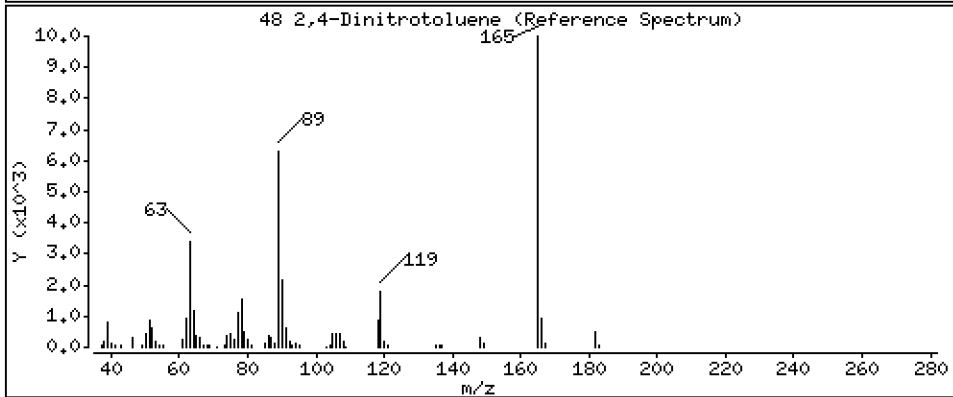
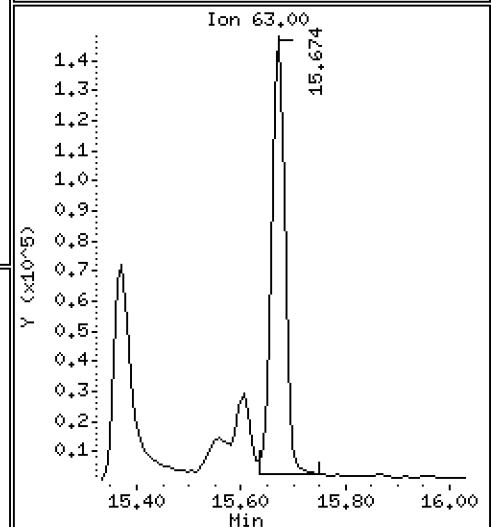
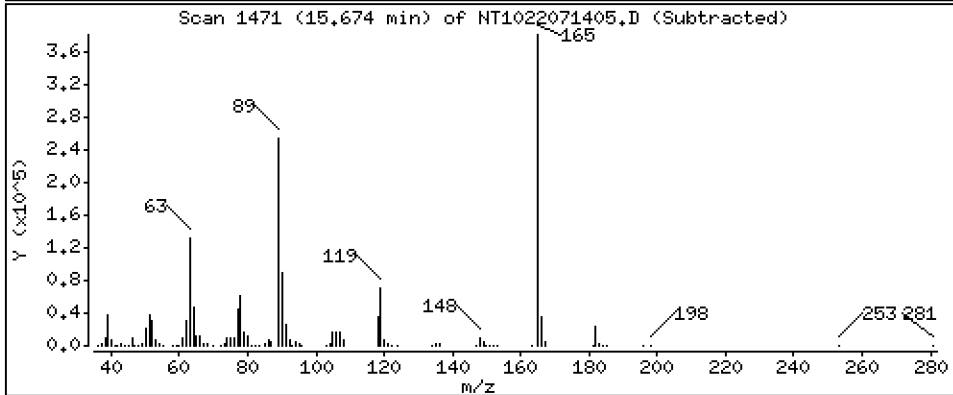
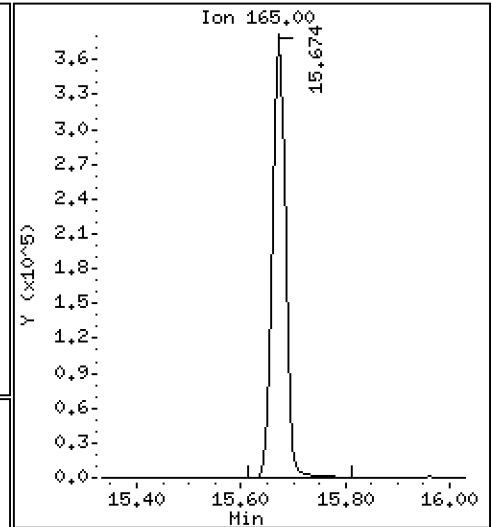
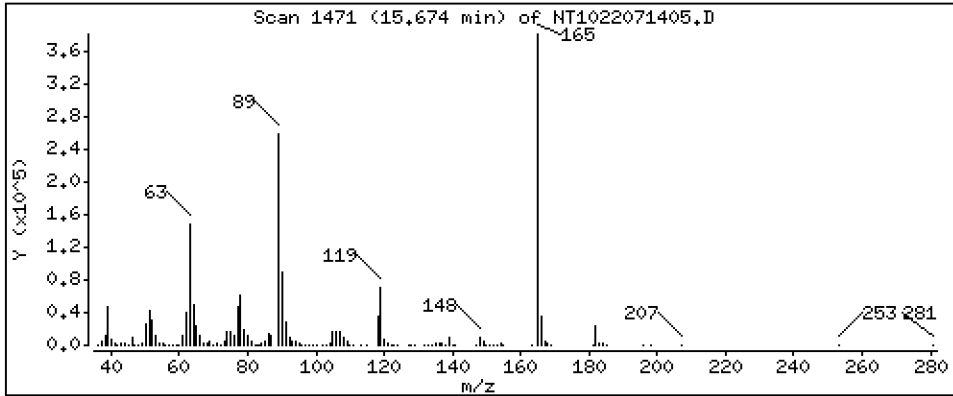
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 16,61 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

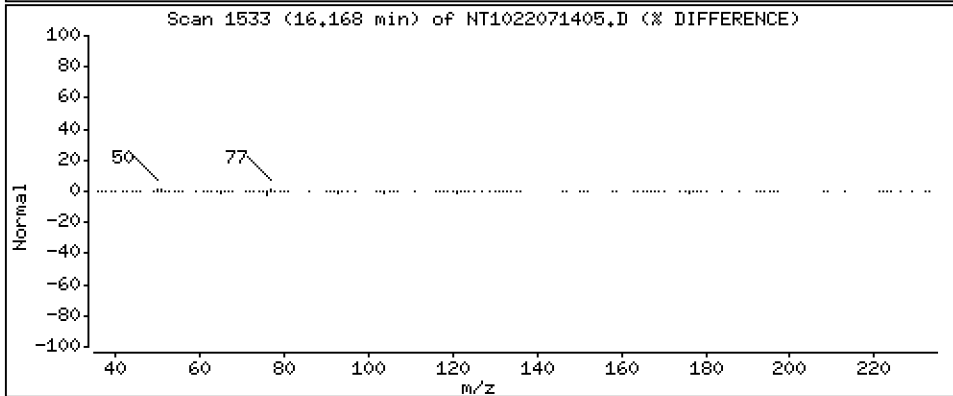
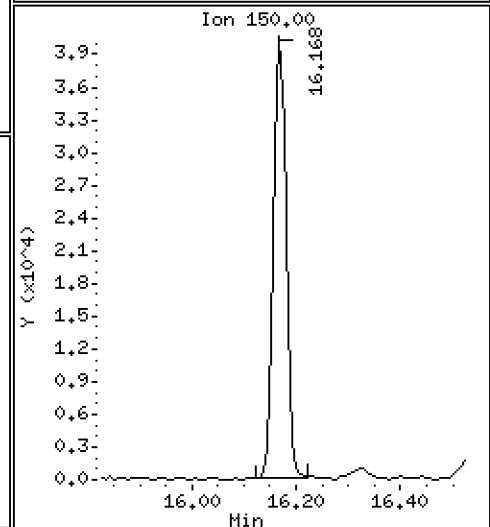
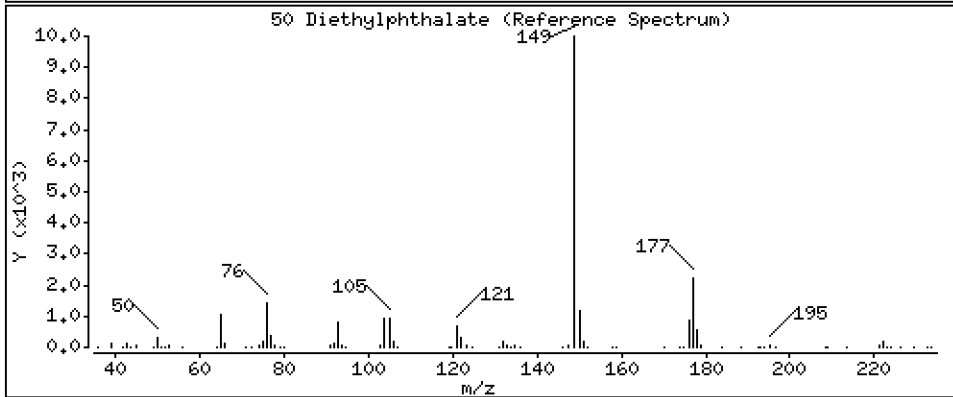
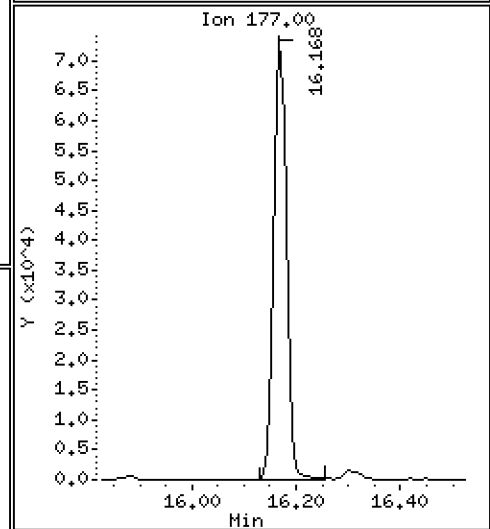
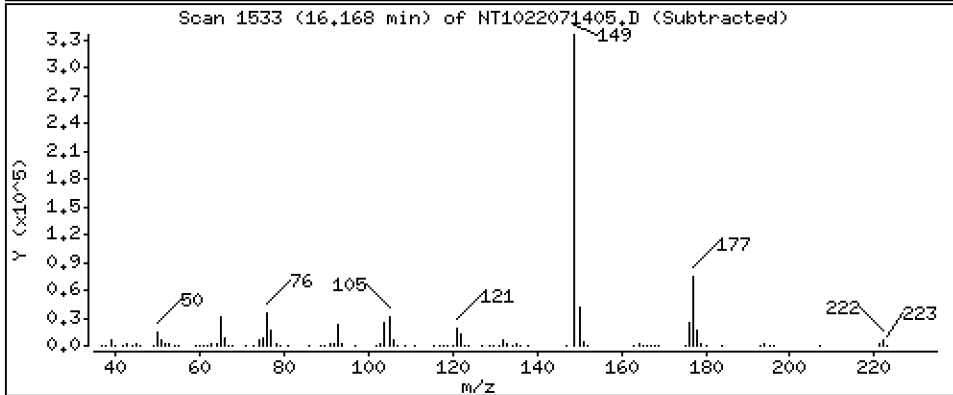
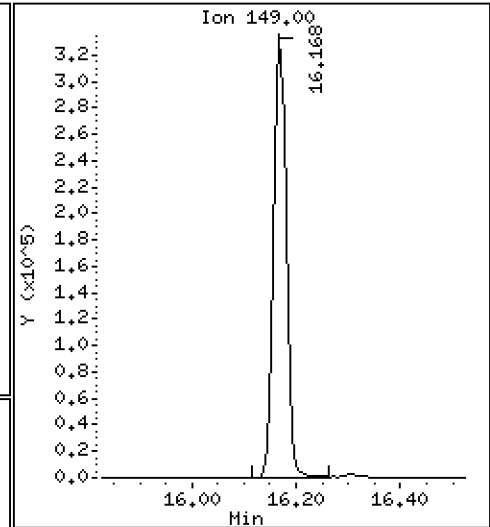
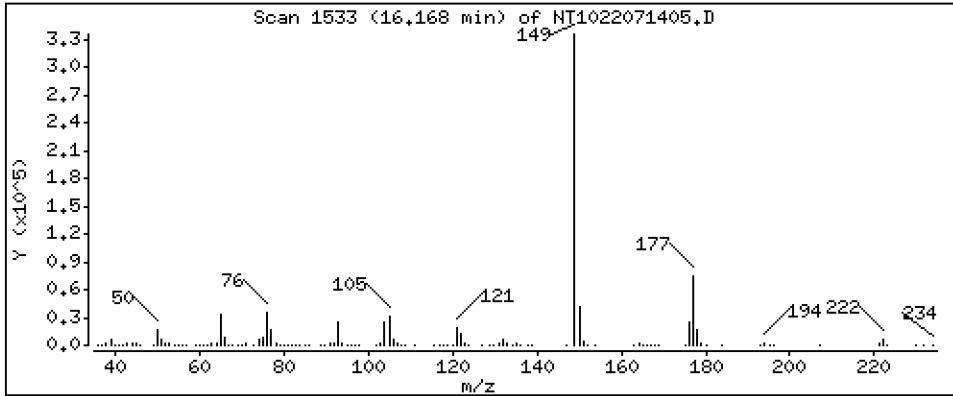
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,156 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

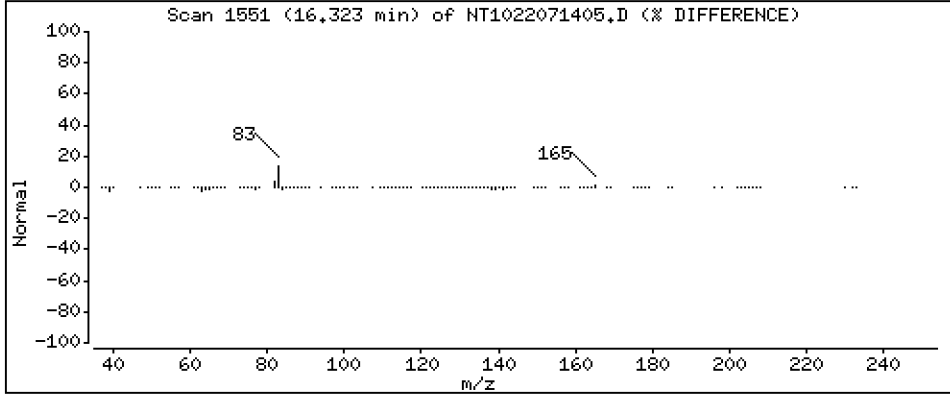
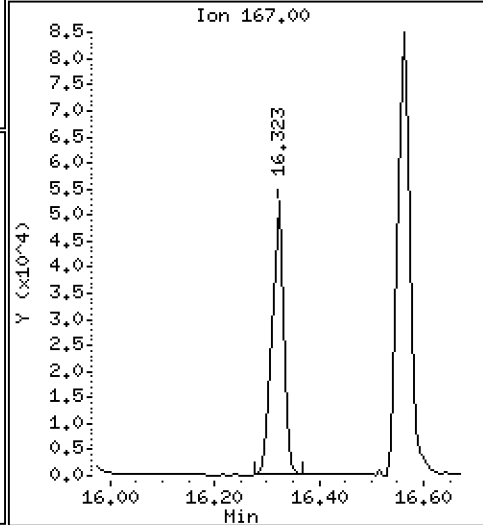
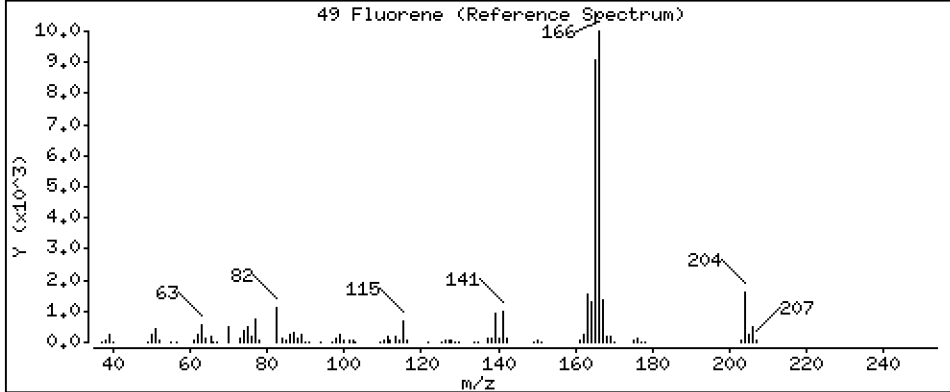
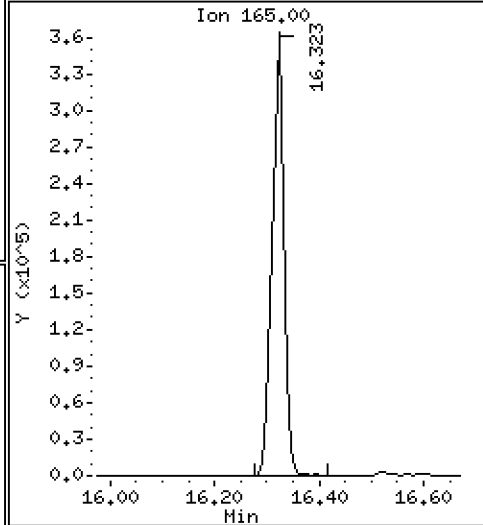
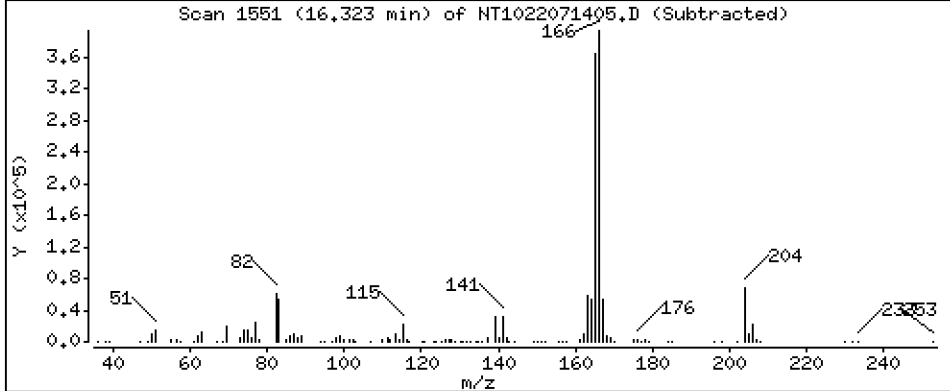
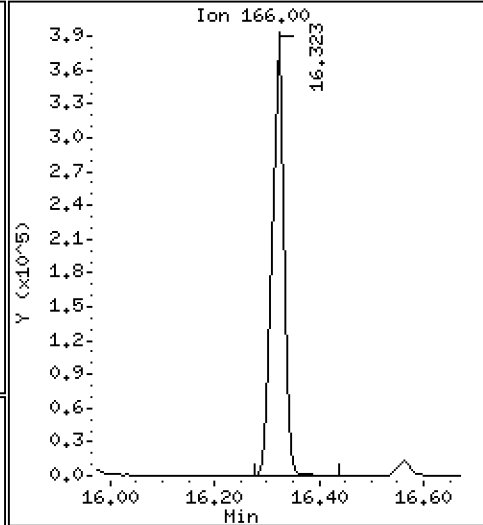
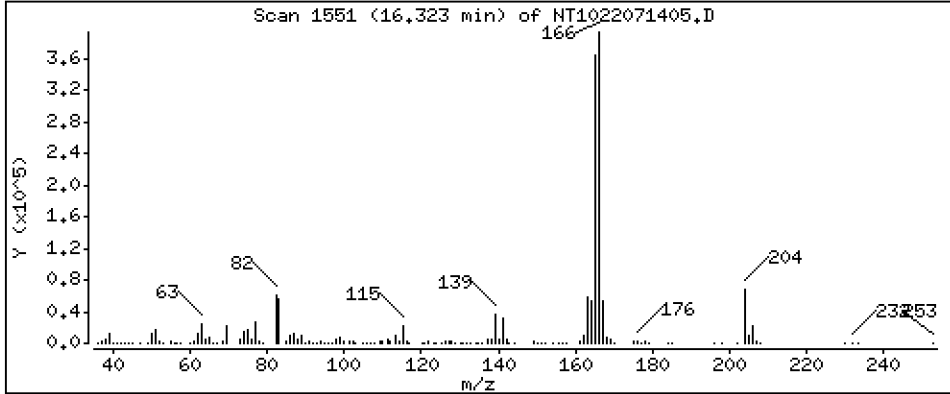
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 2,205 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

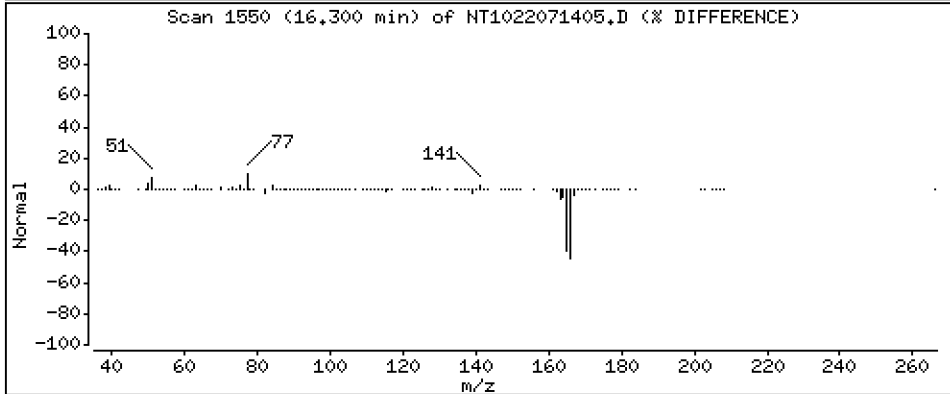
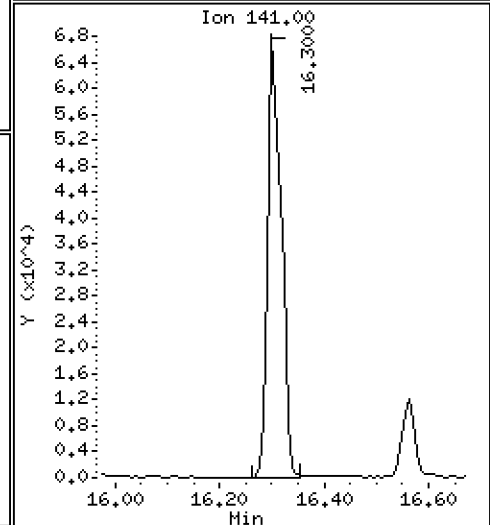
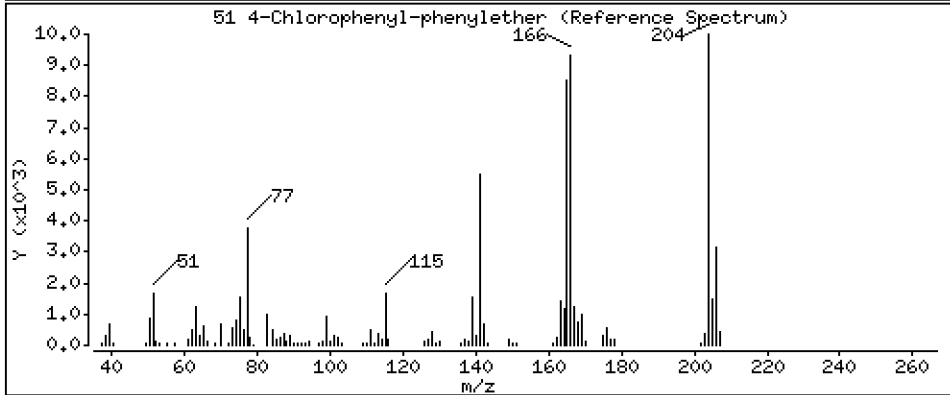
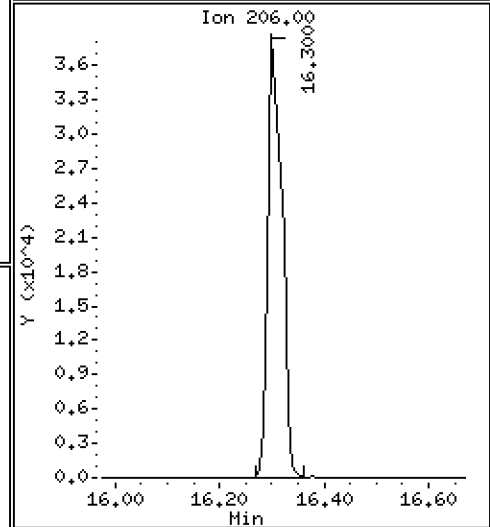
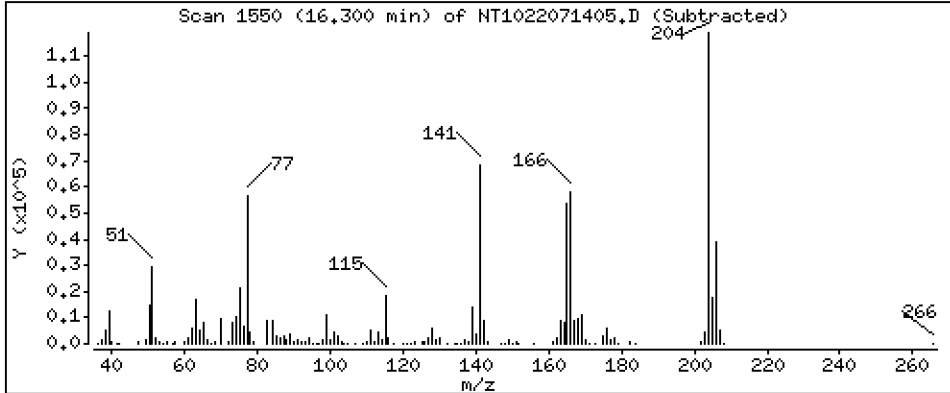
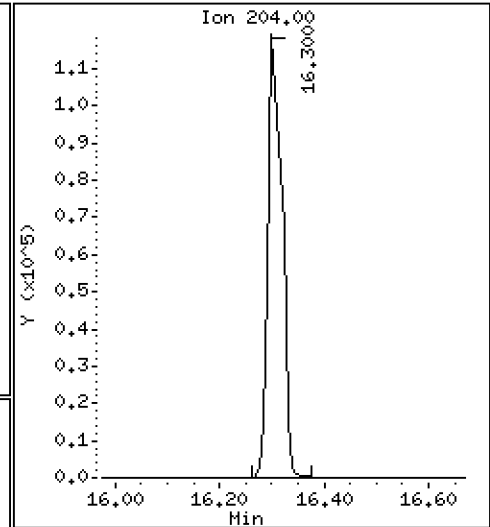
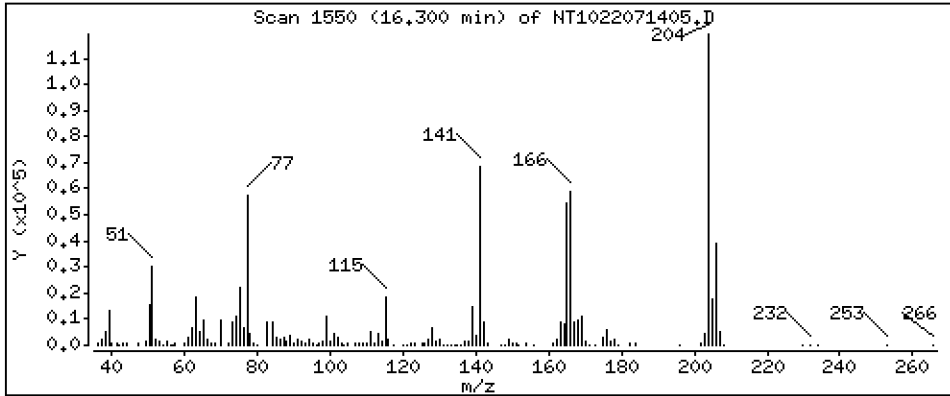
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 1,760 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

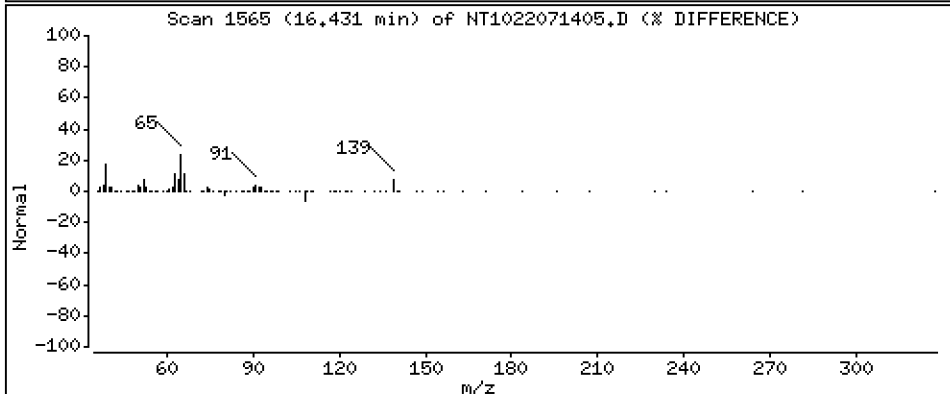
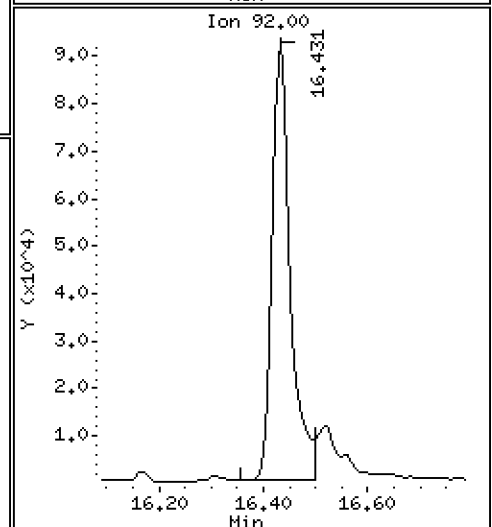
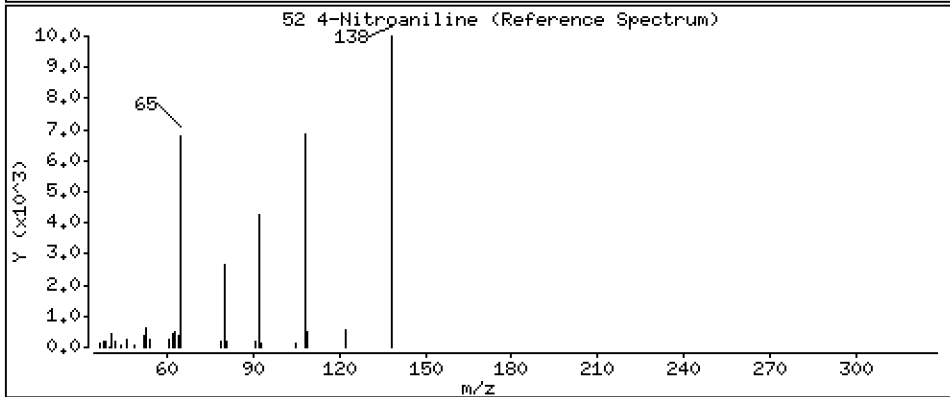
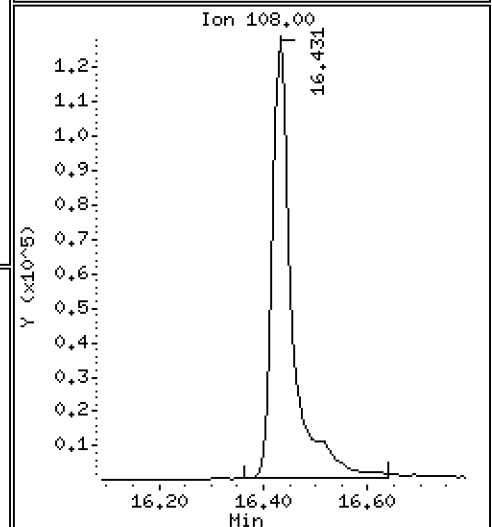
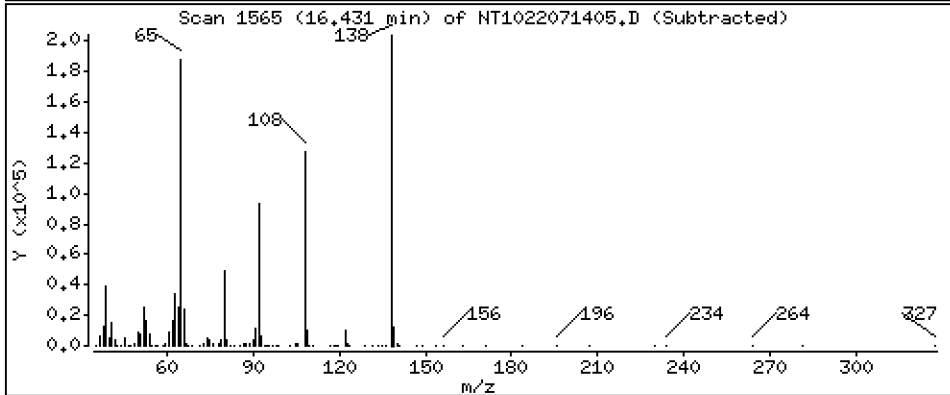
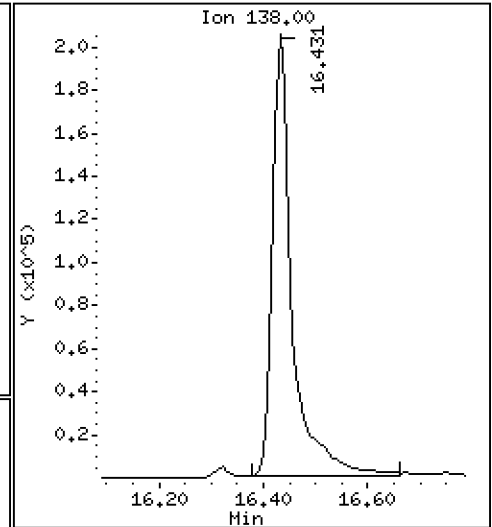
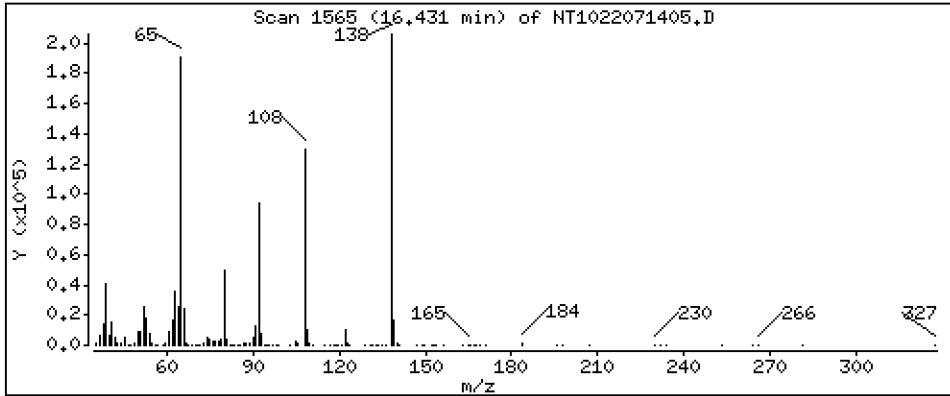
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 15,91 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

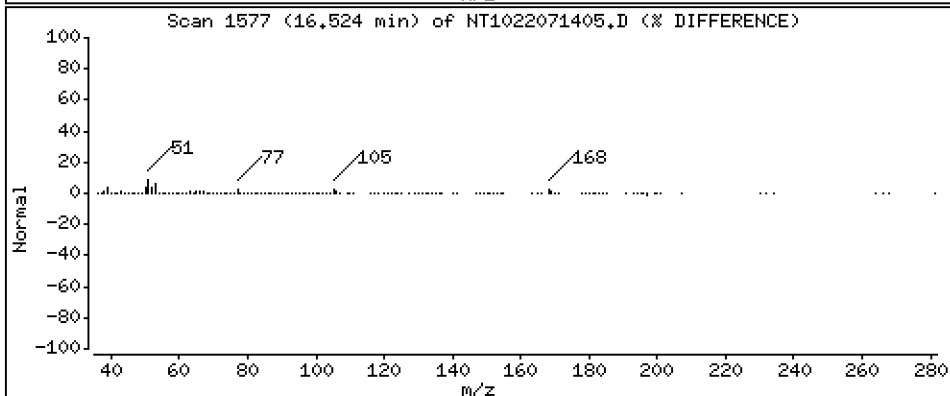
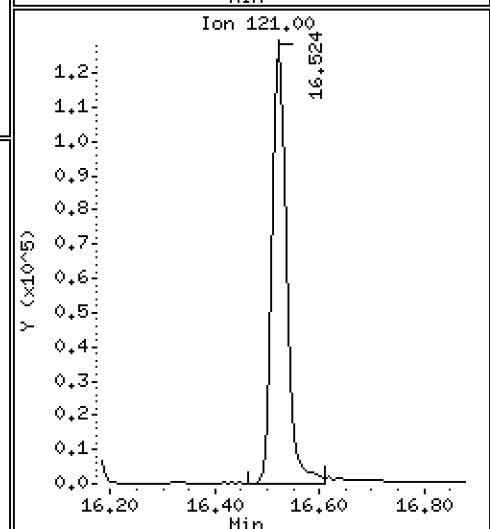
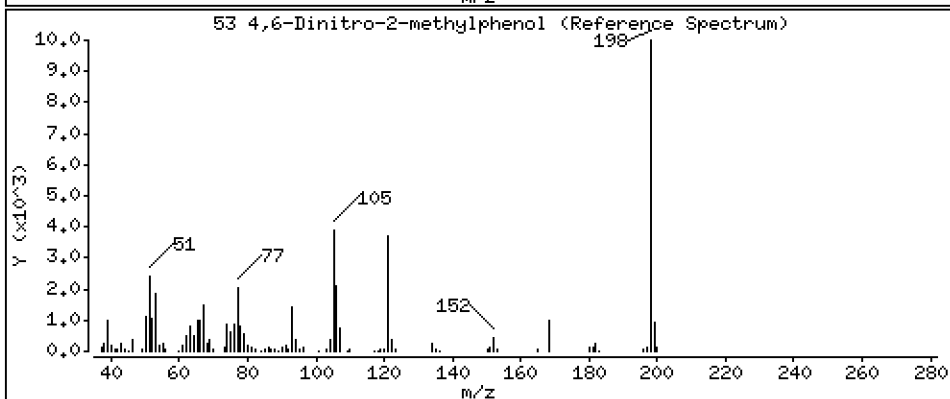
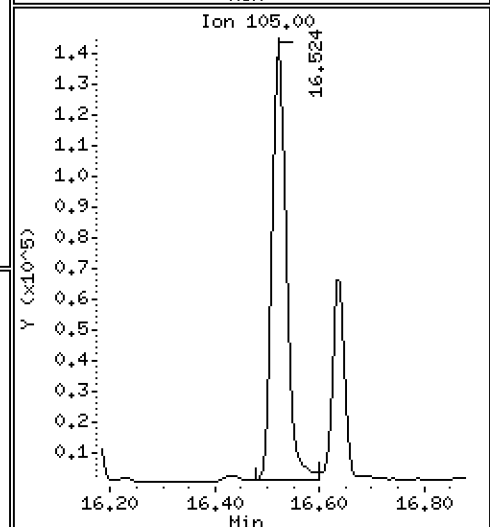
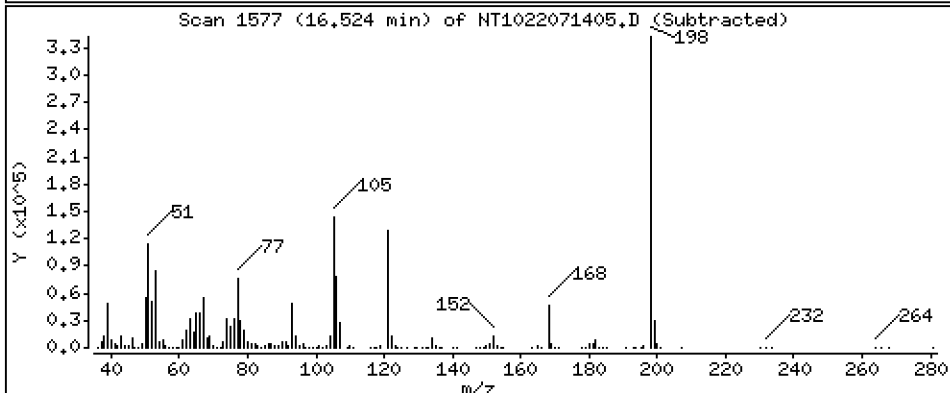
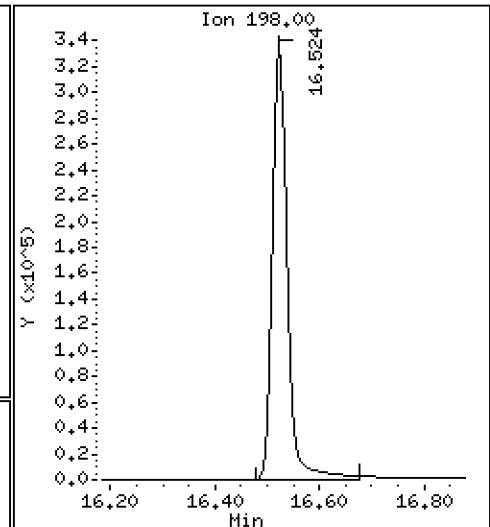
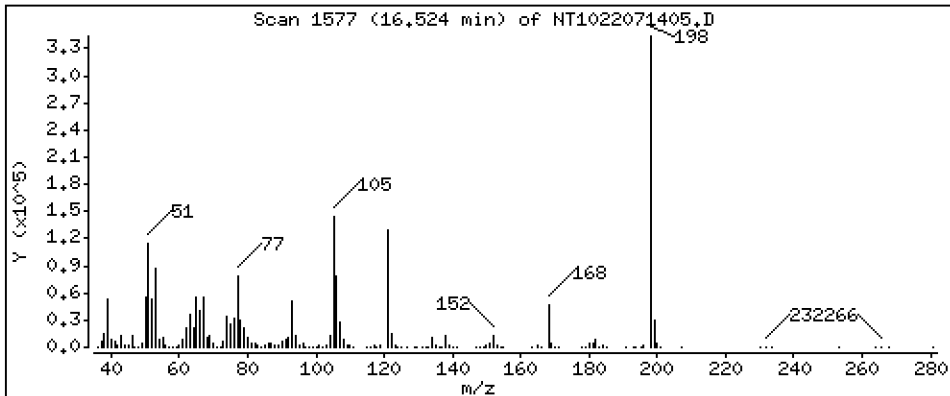
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 27,76 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

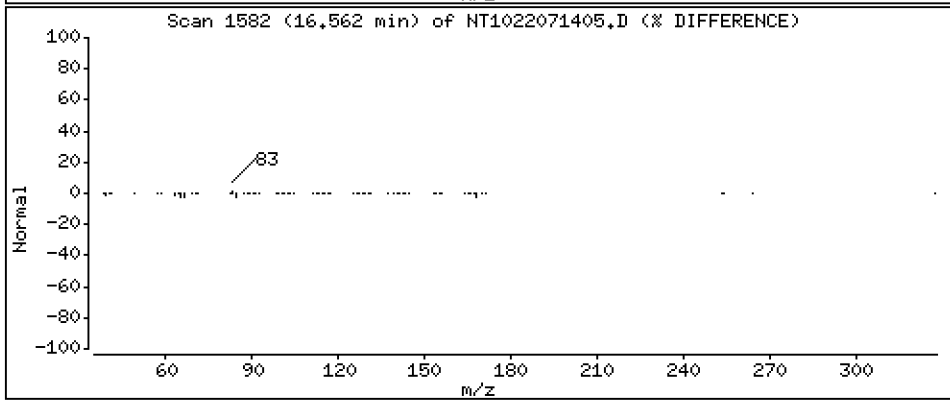
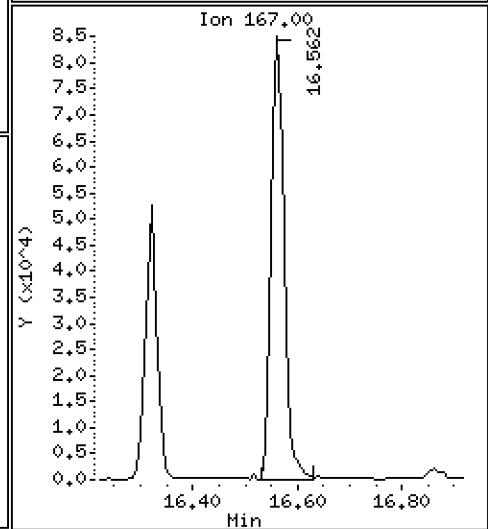
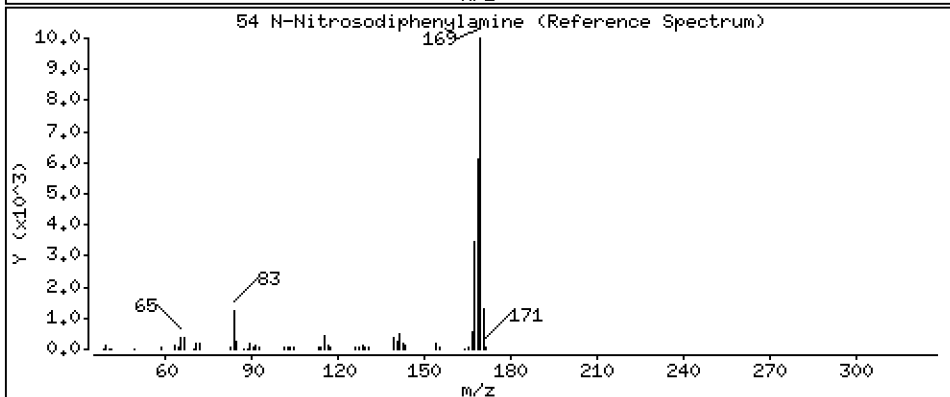
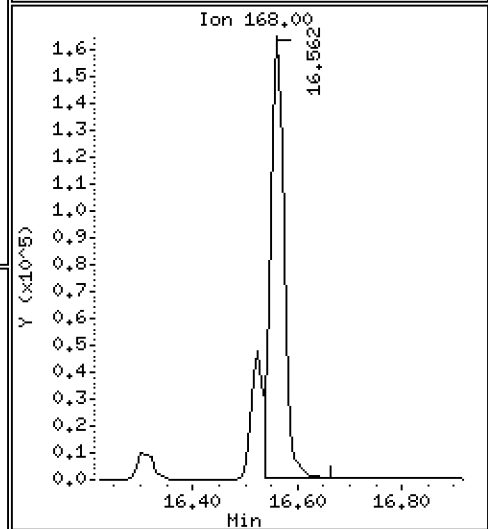
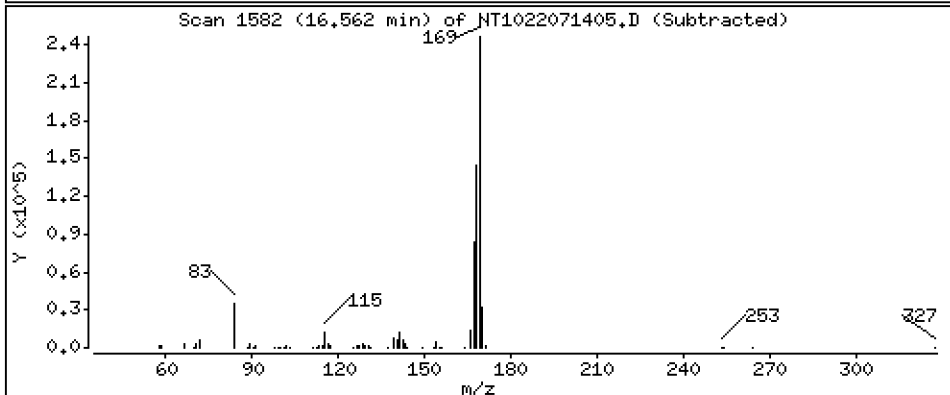
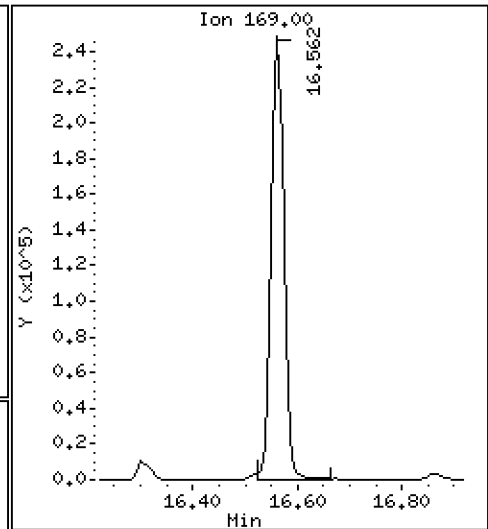
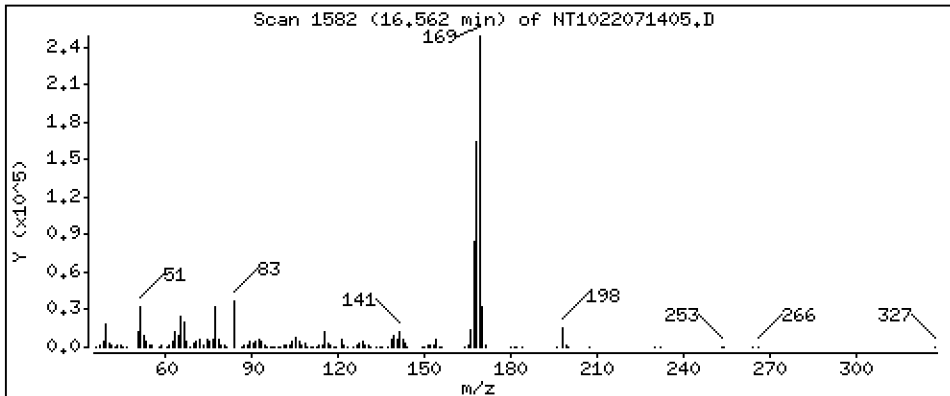
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,309 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

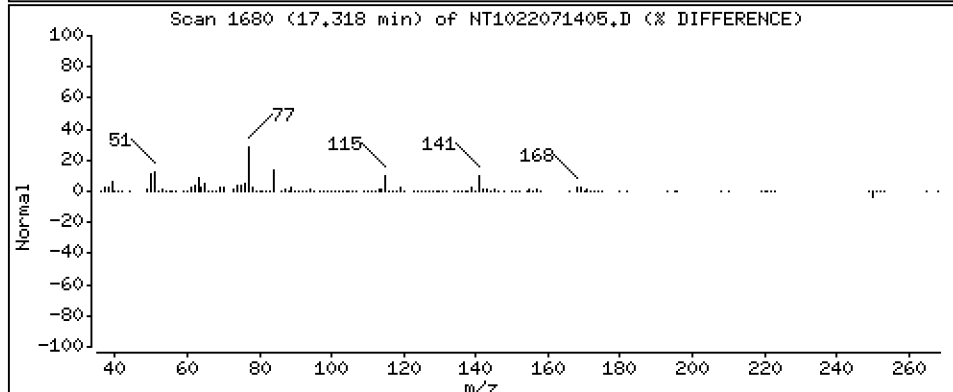
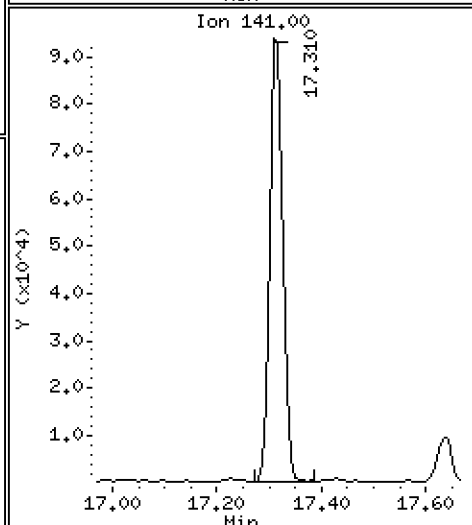
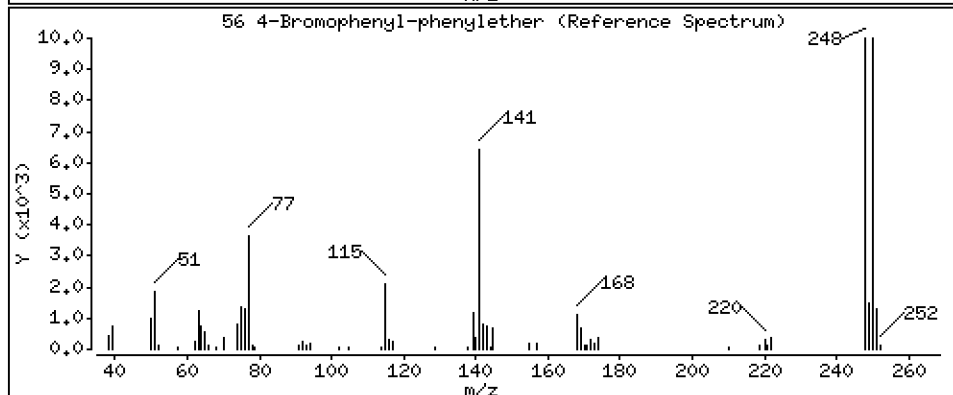
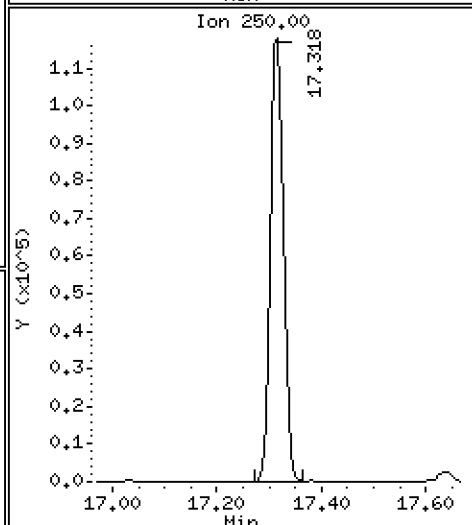
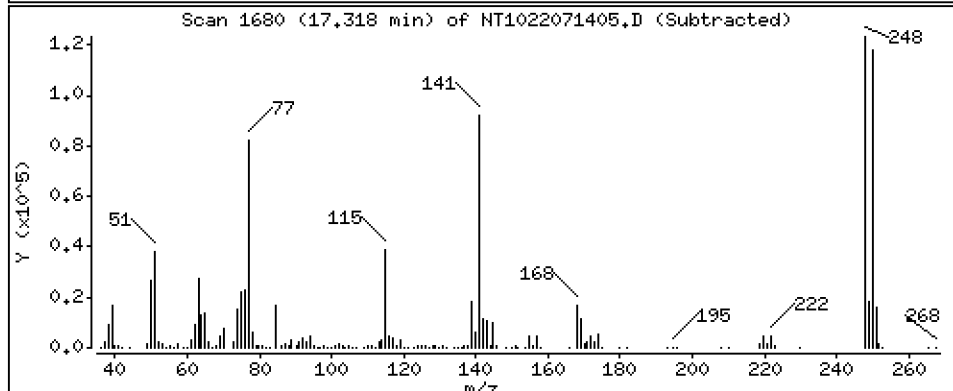
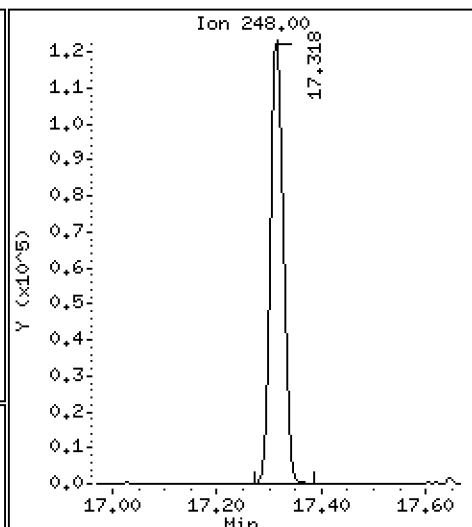
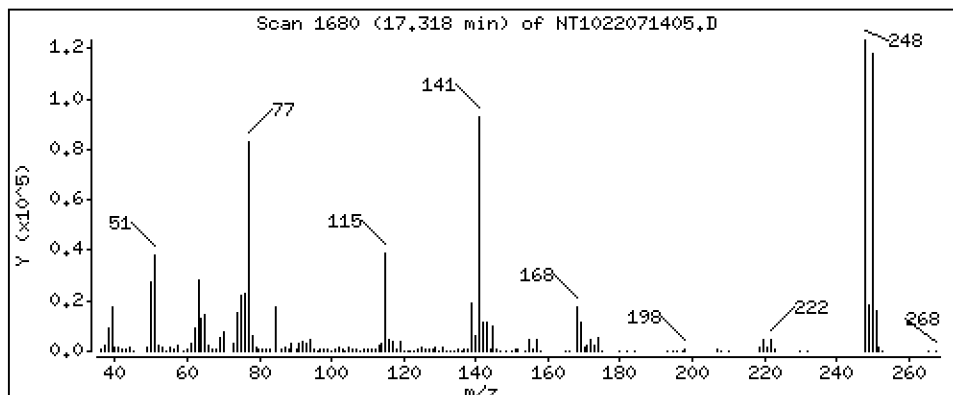
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 4,922 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

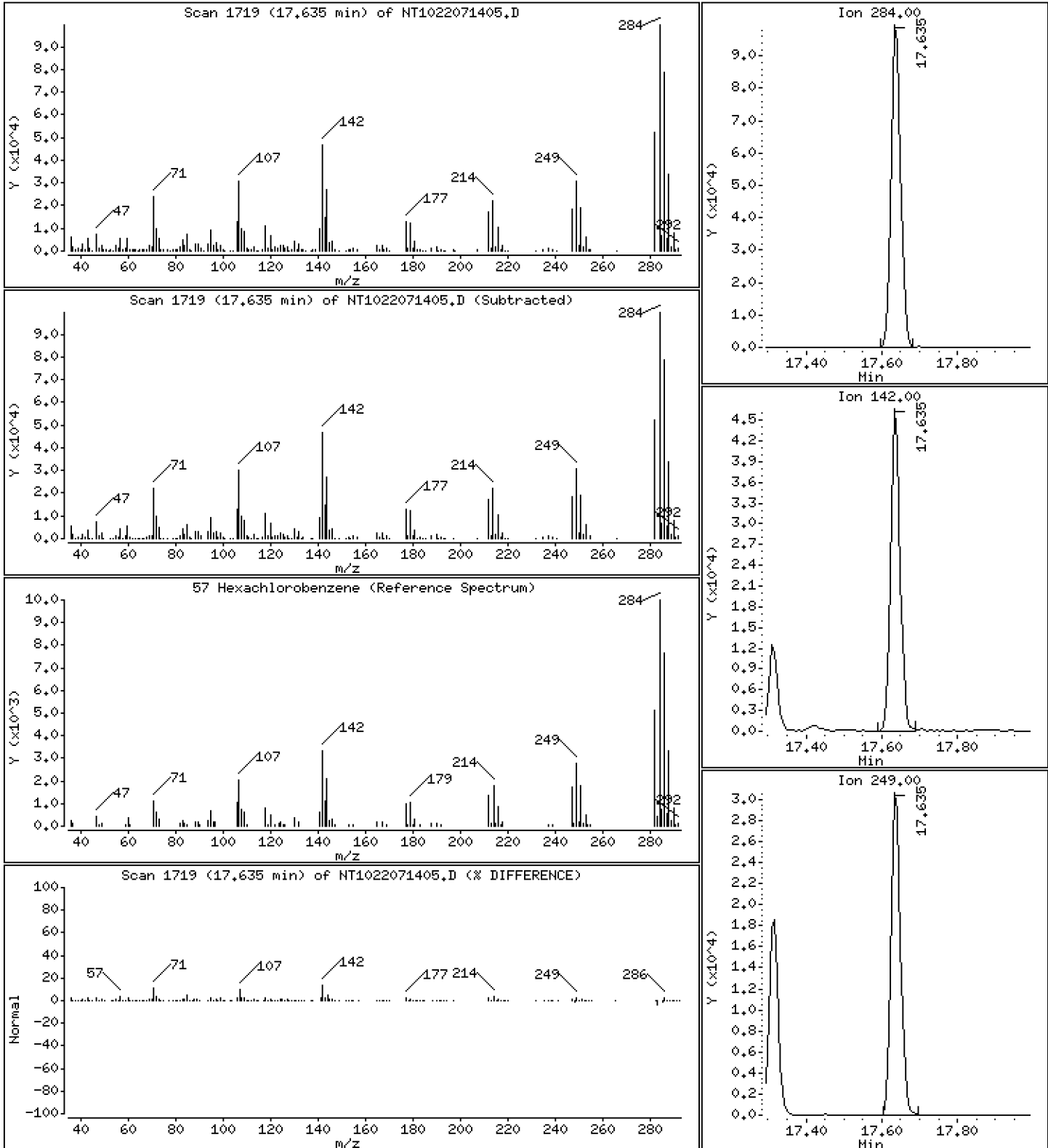
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,394 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

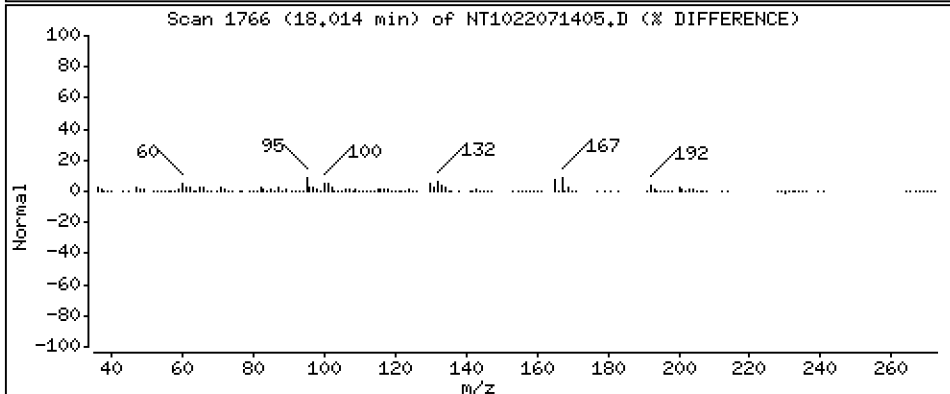
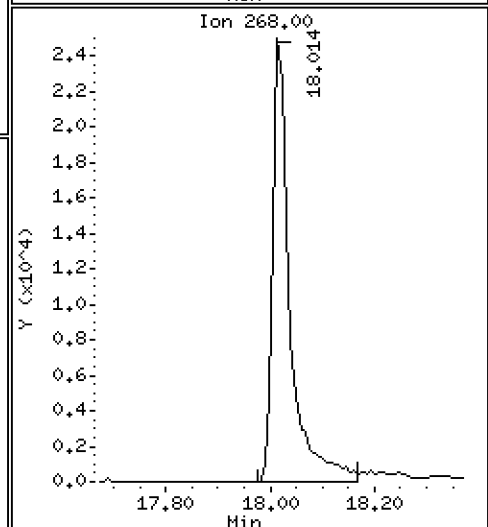
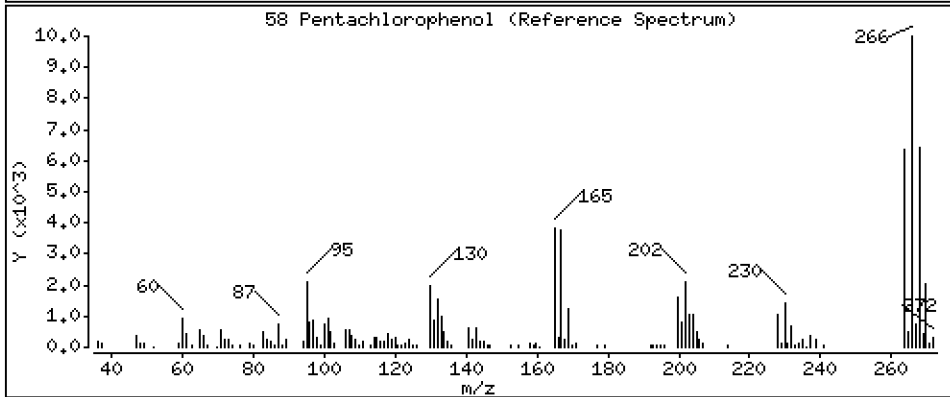
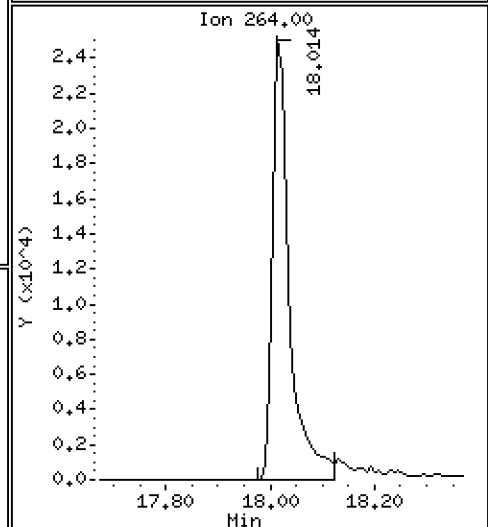
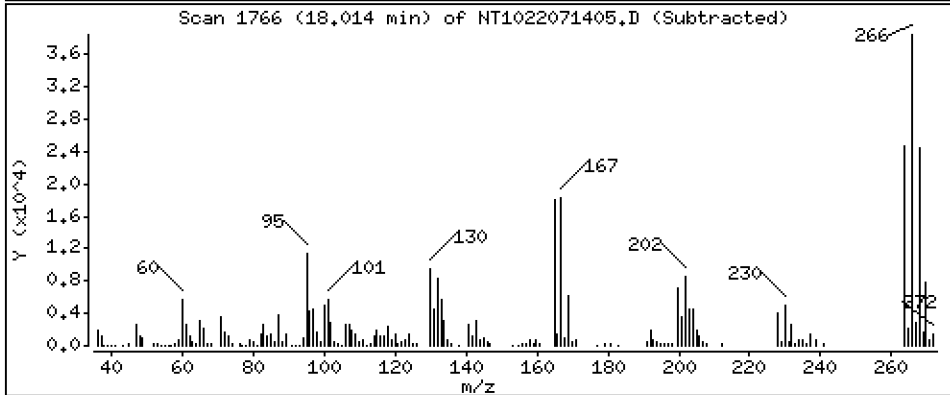
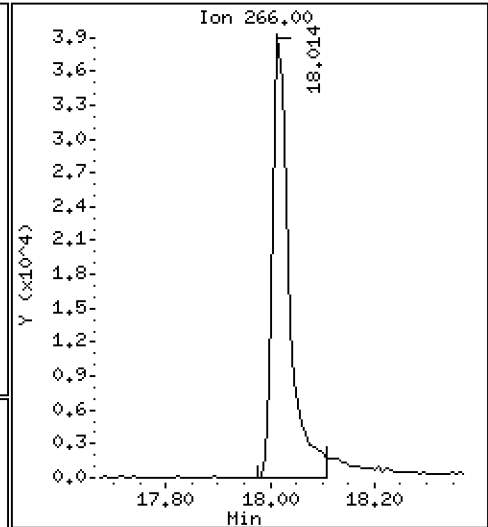
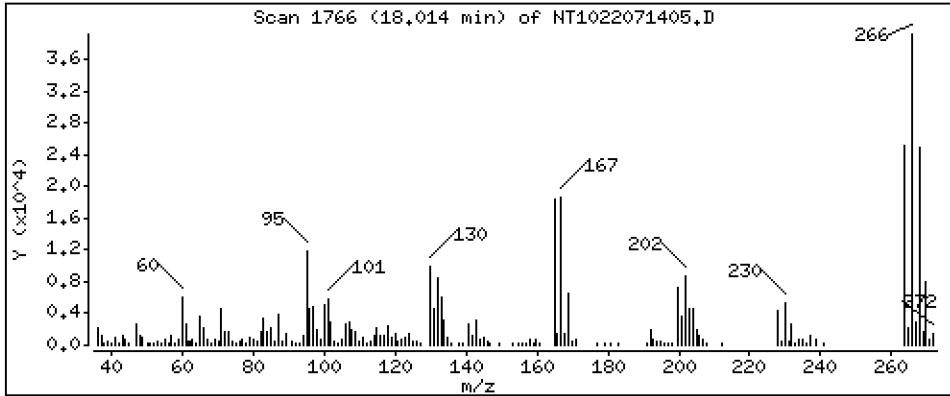
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 9,235 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

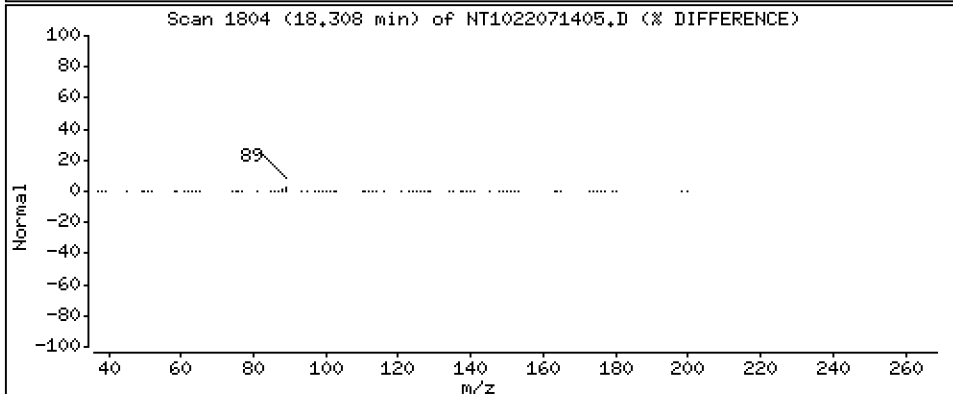
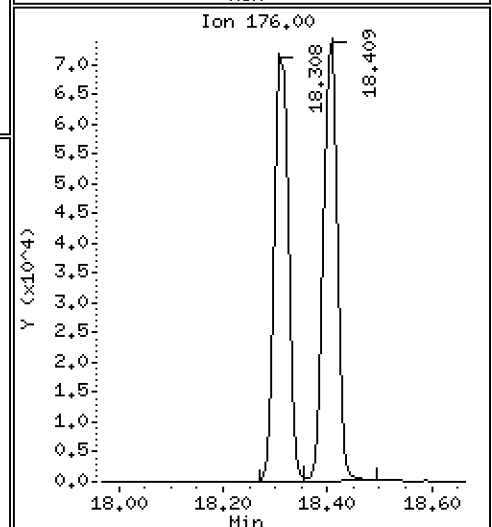
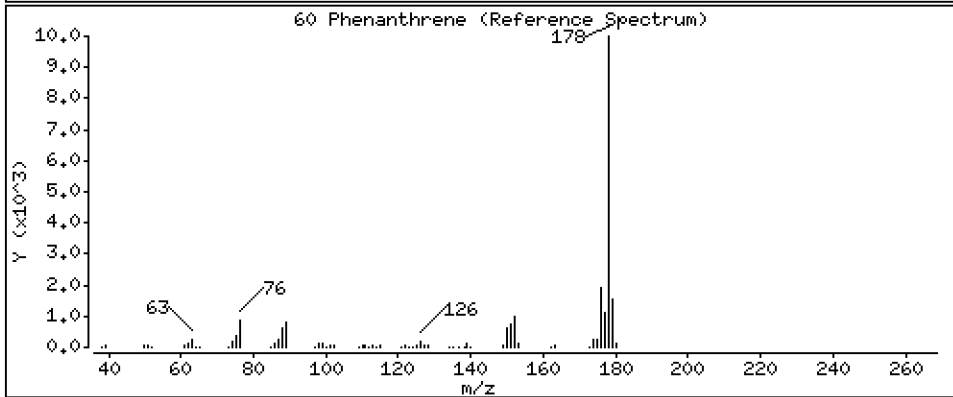
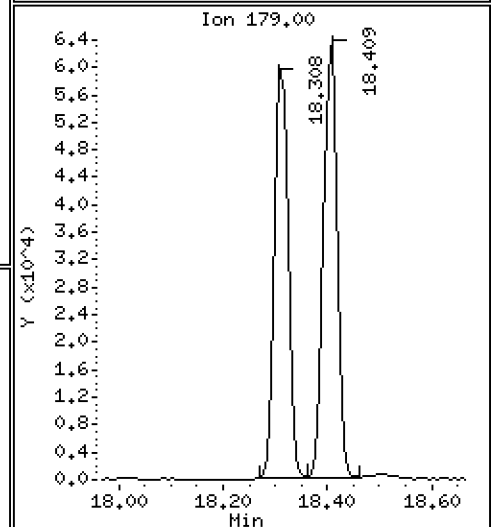
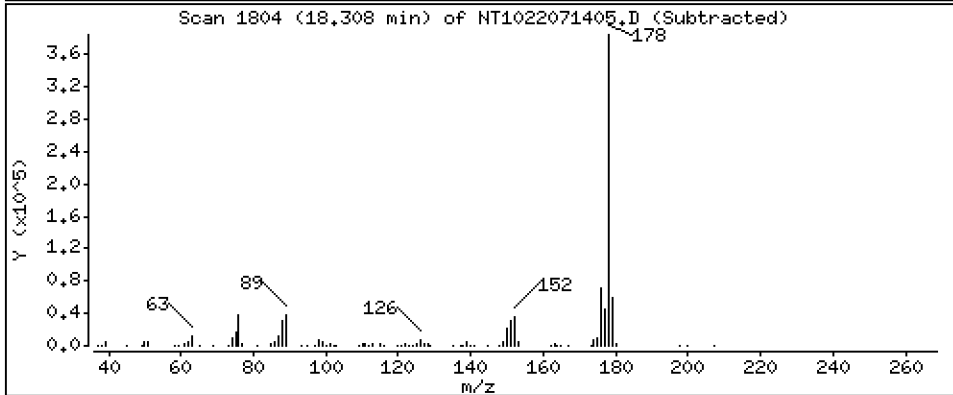
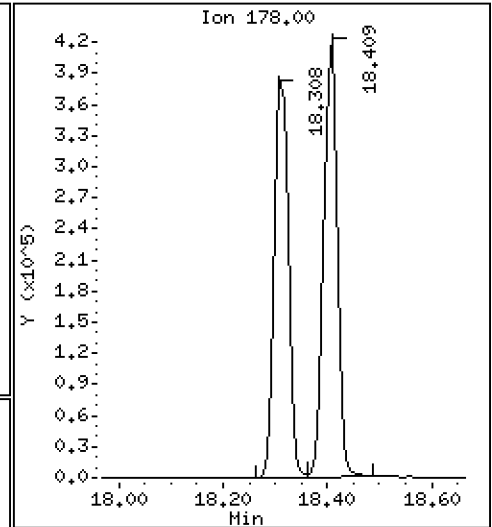
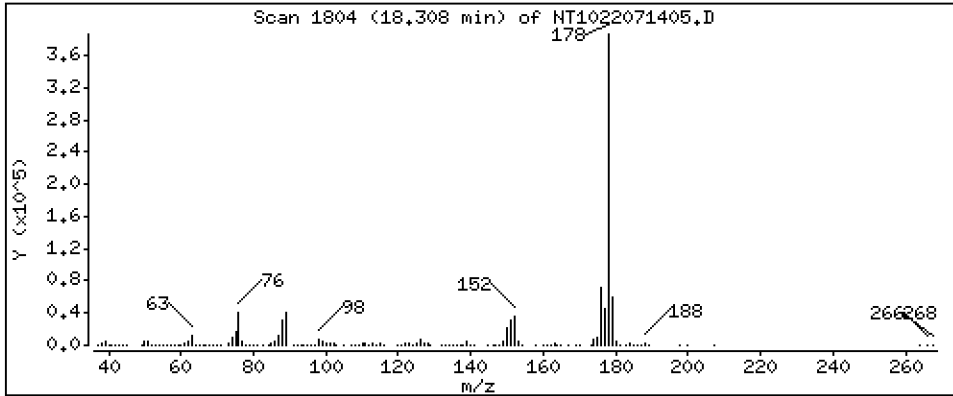
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,492 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

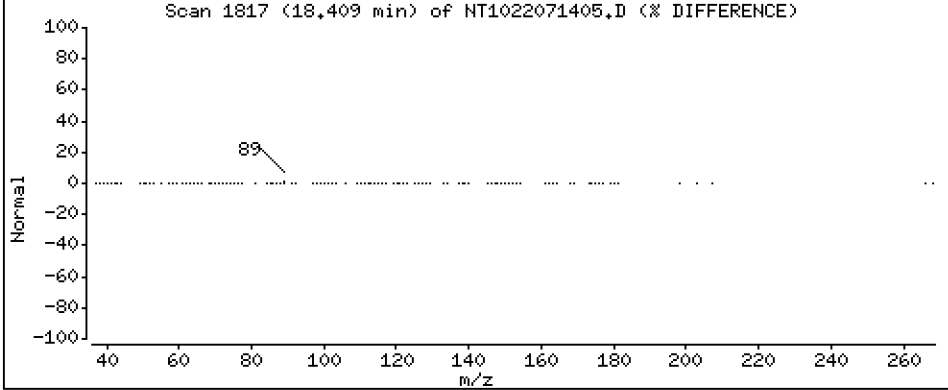
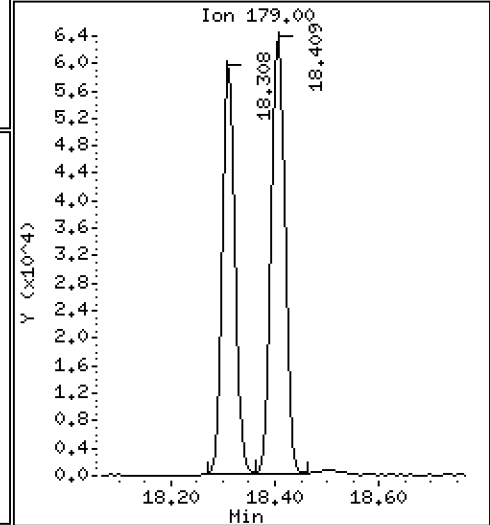
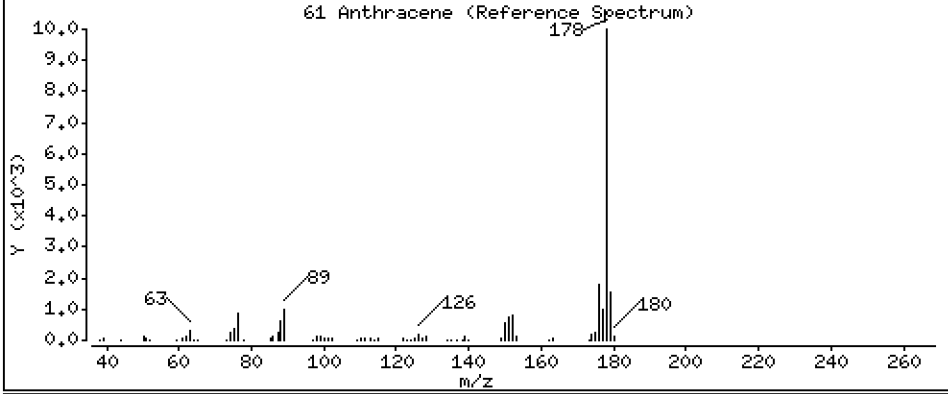
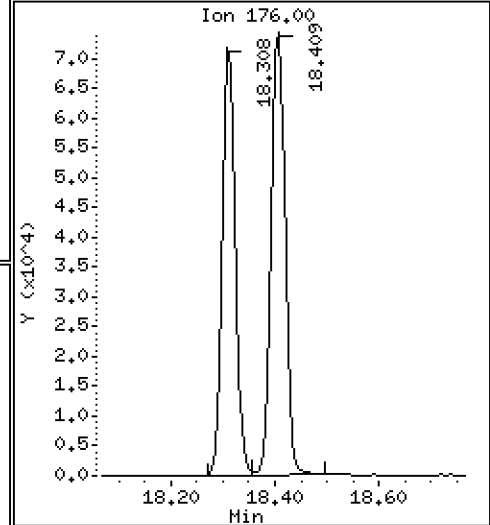
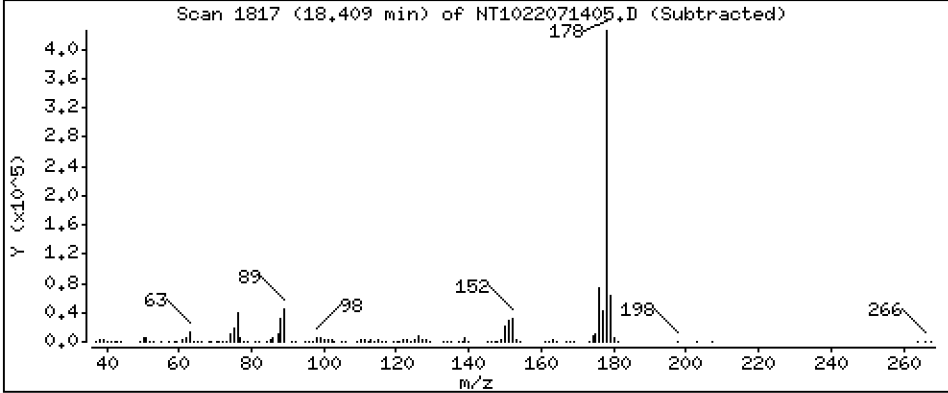
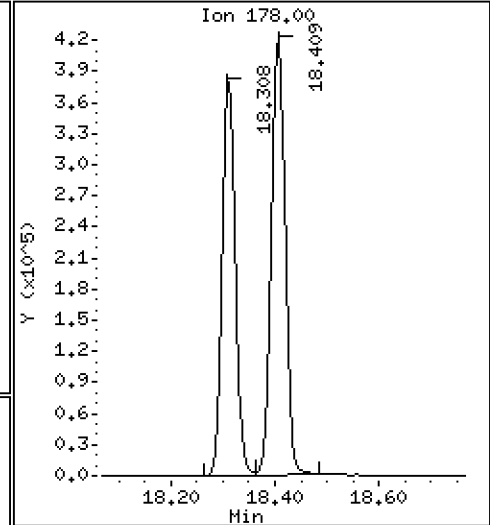
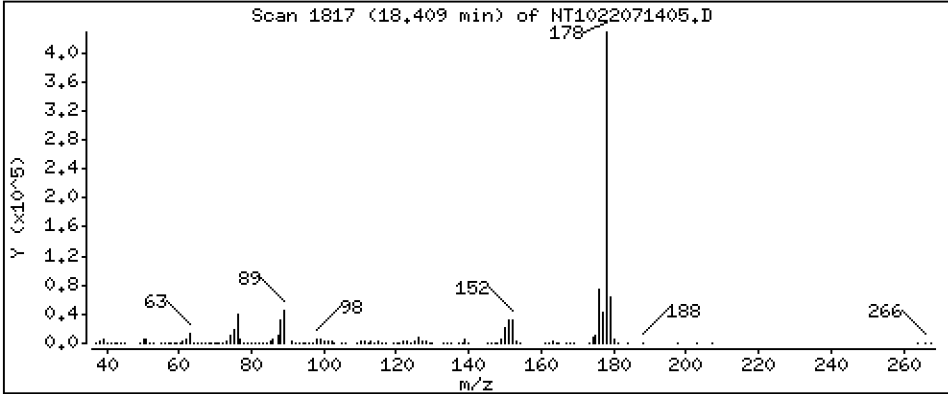
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,484 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

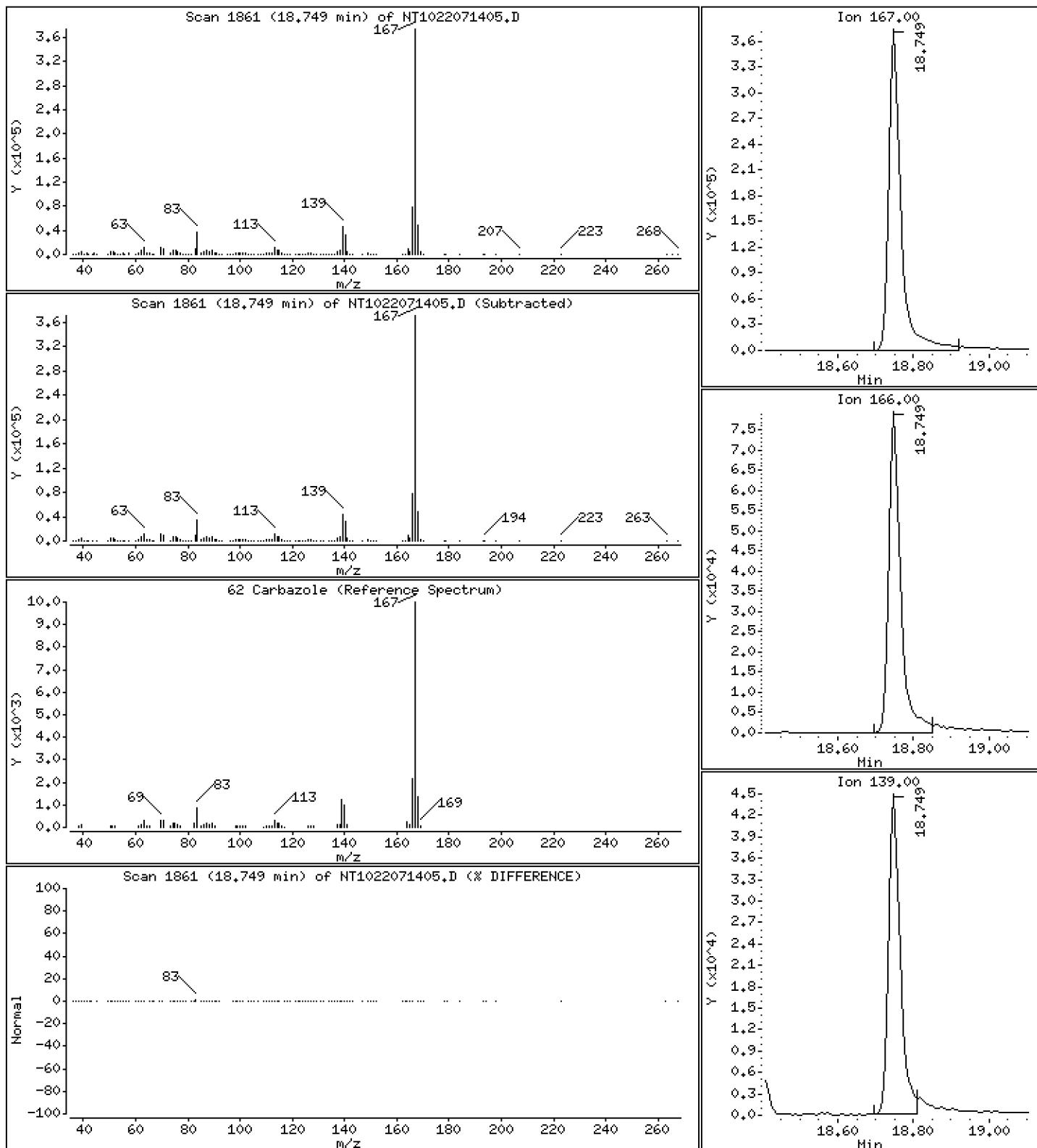
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,373 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

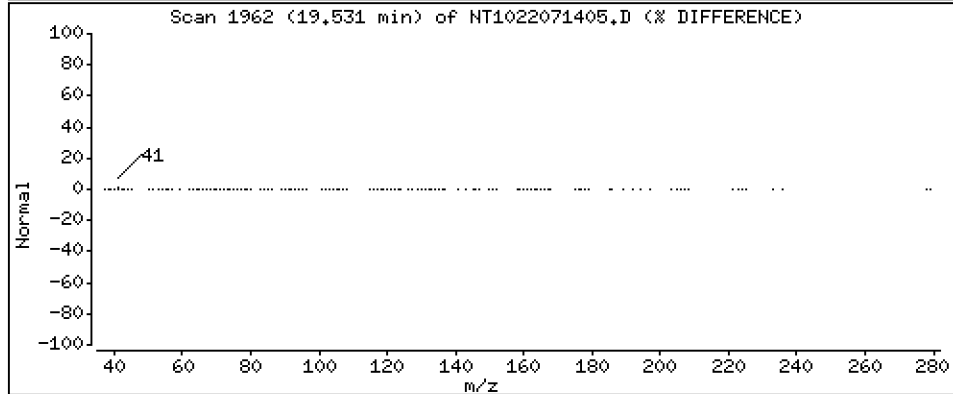
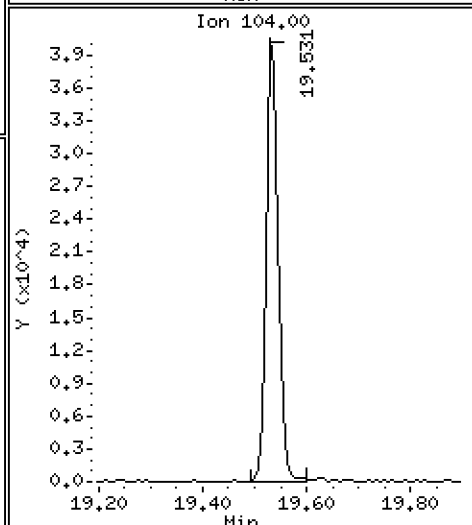
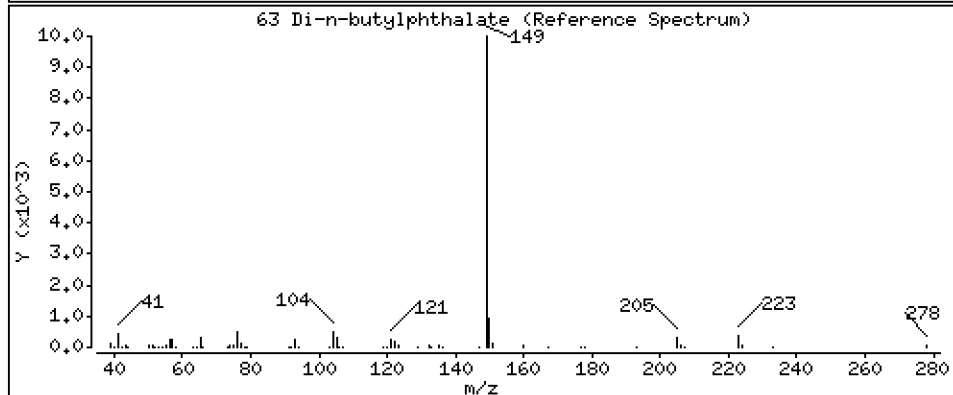
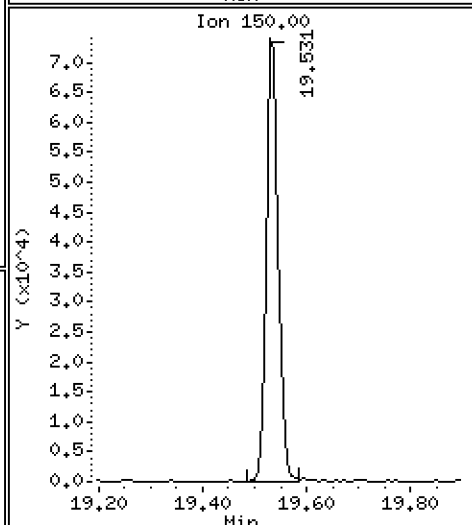
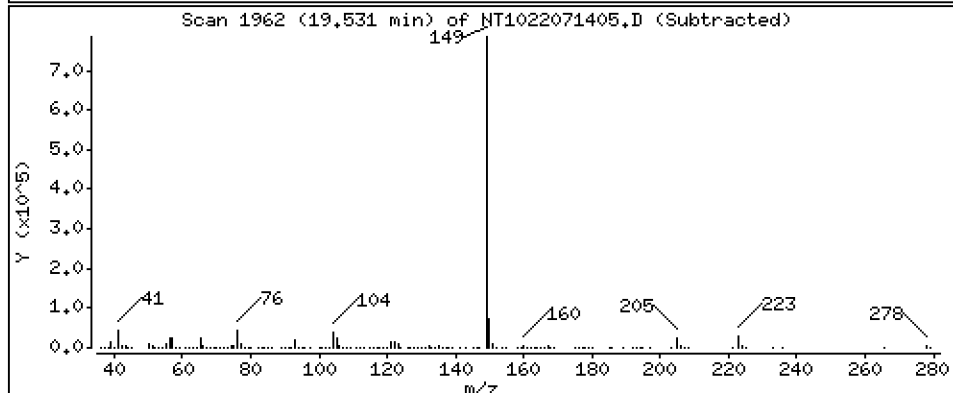
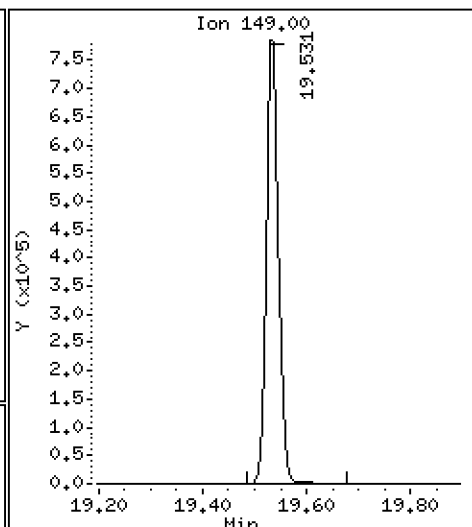
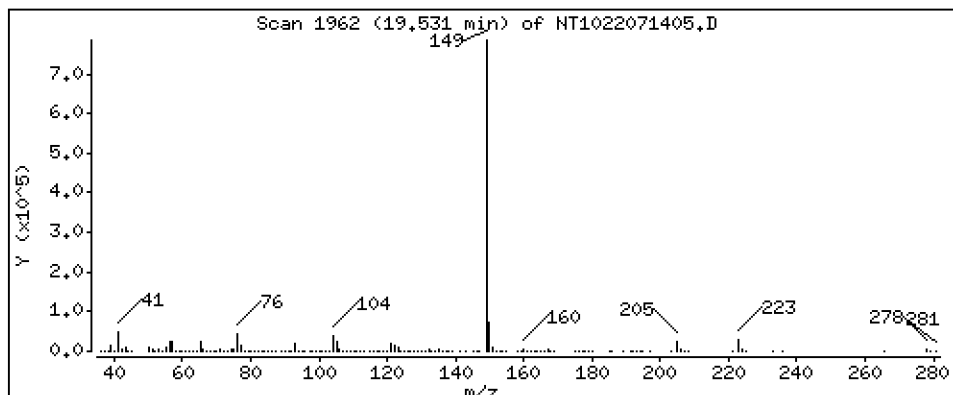
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,331 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

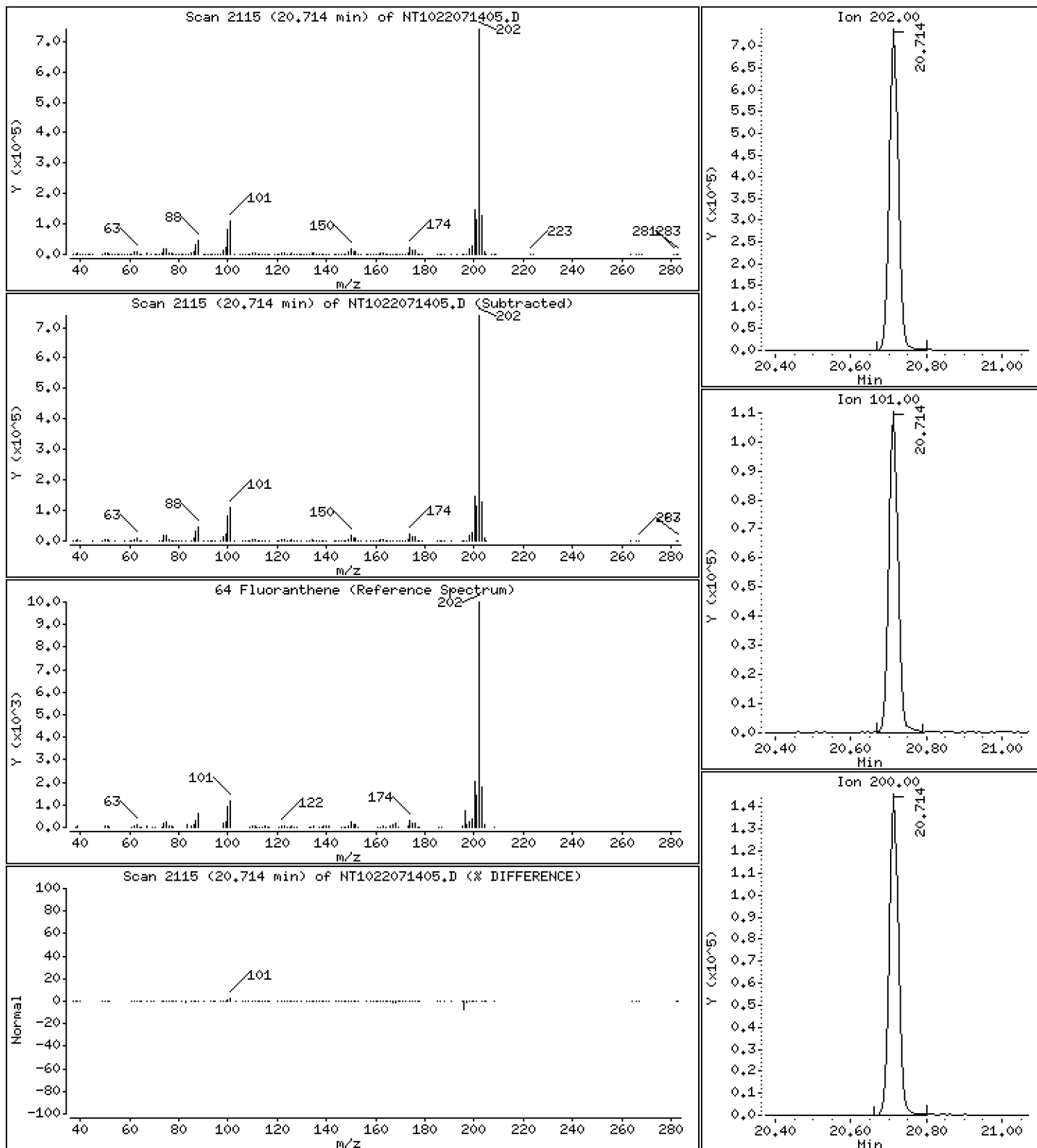
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,579 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

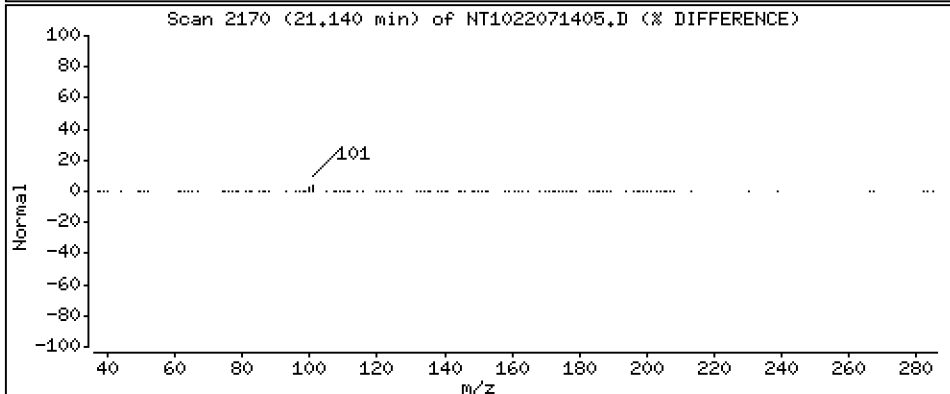
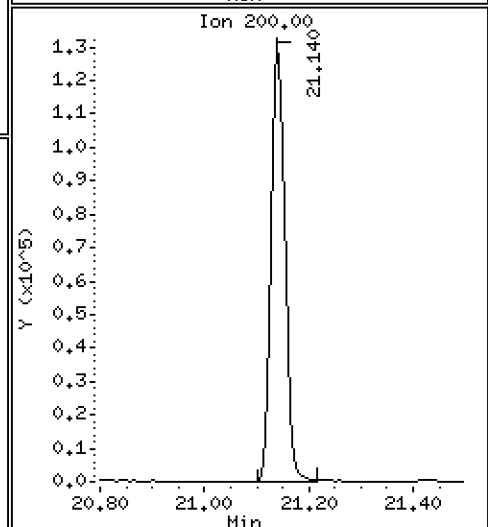
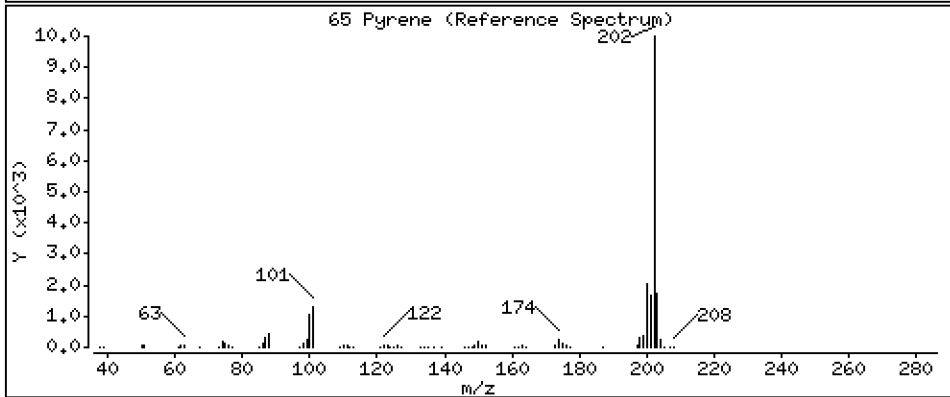
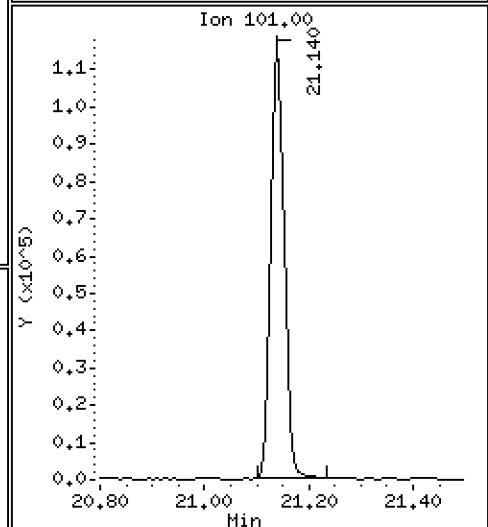
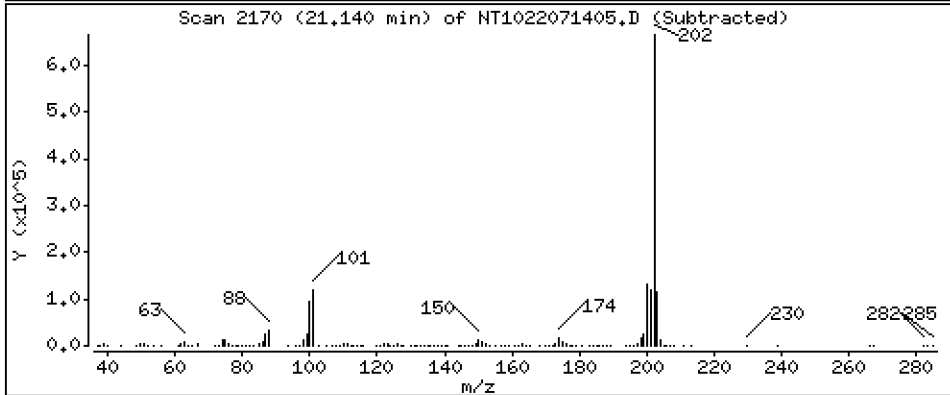
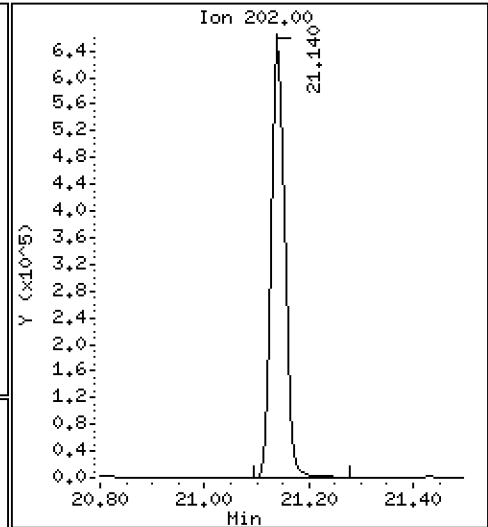
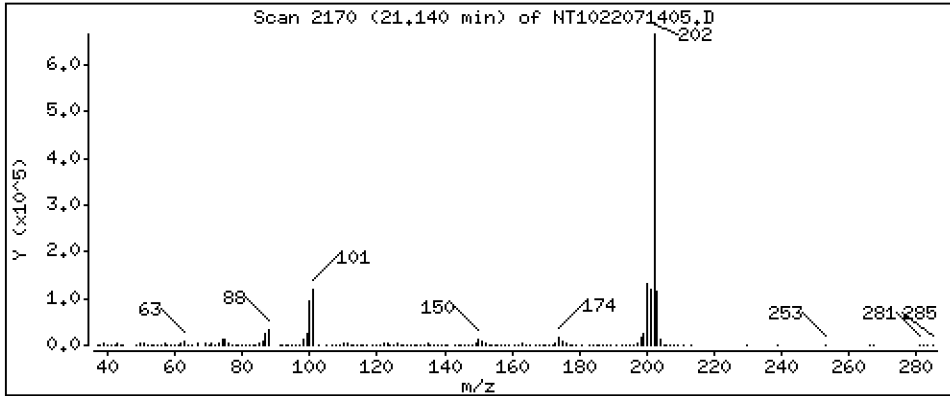
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 5,164 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

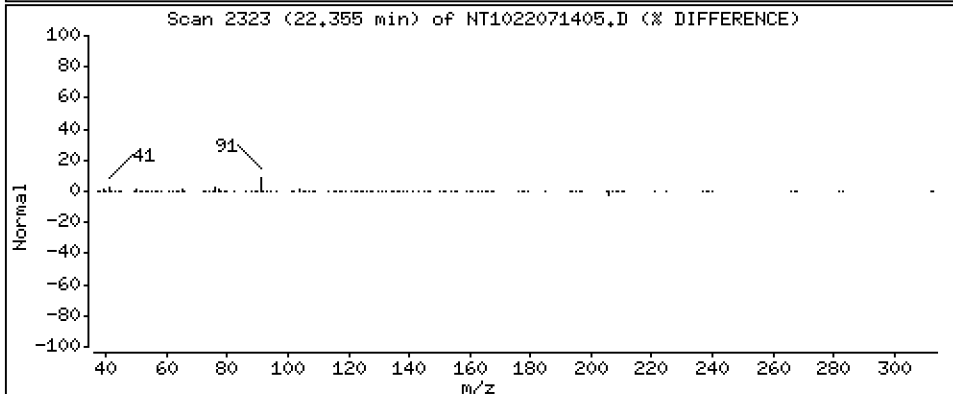
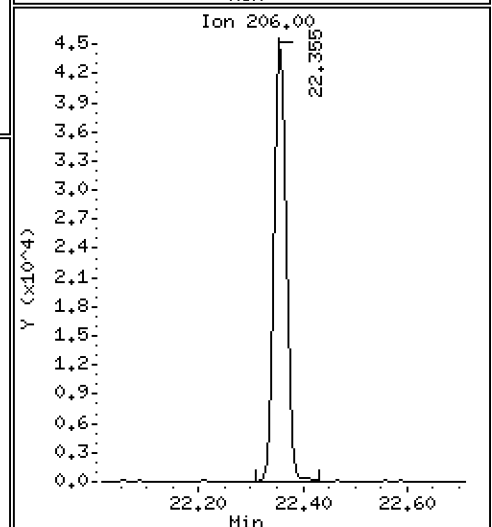
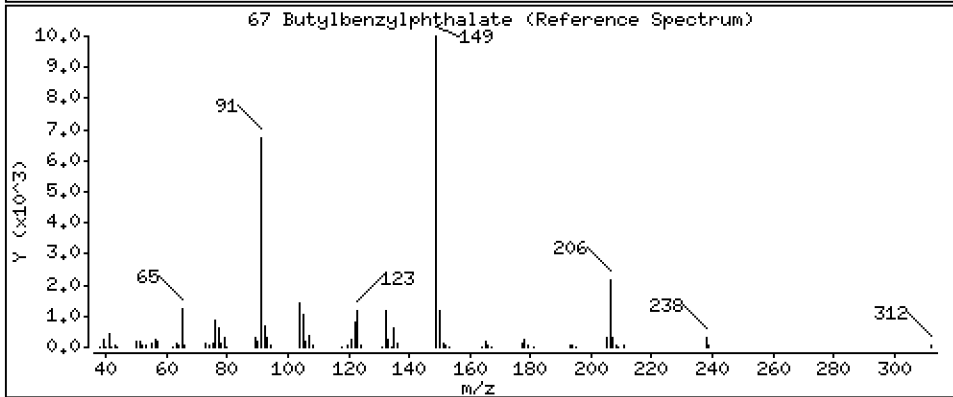
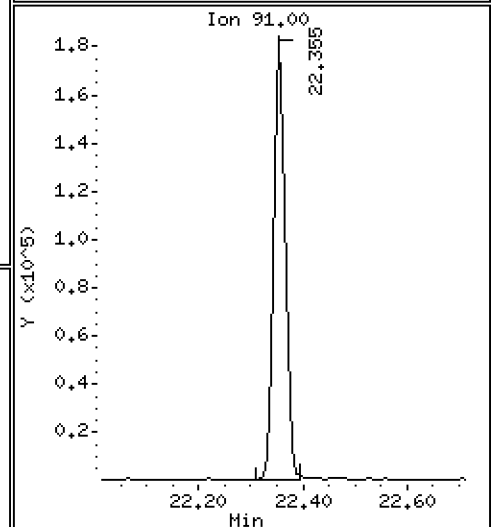
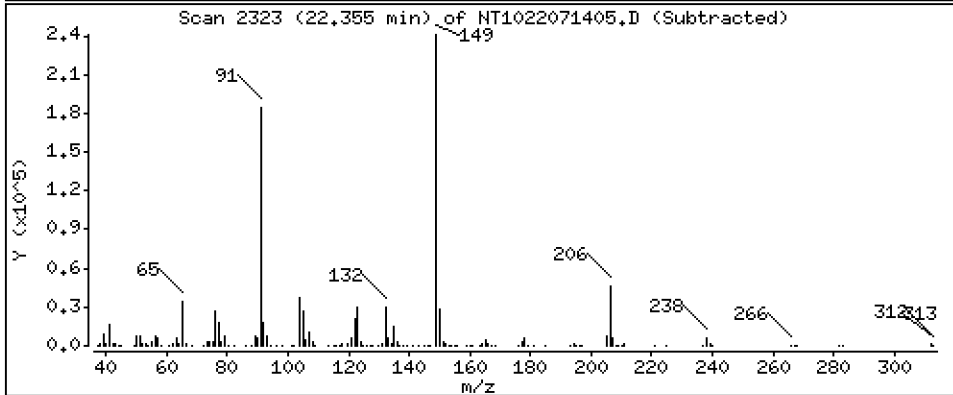
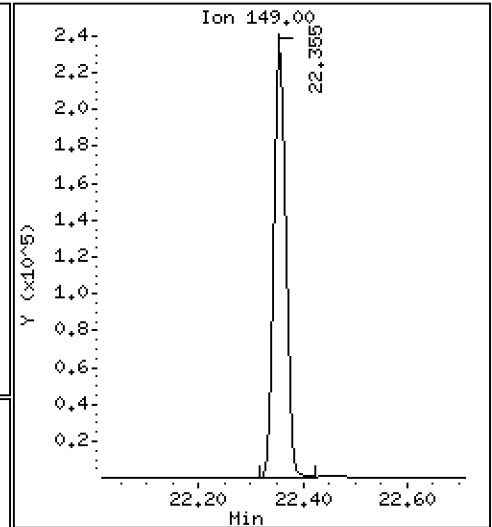
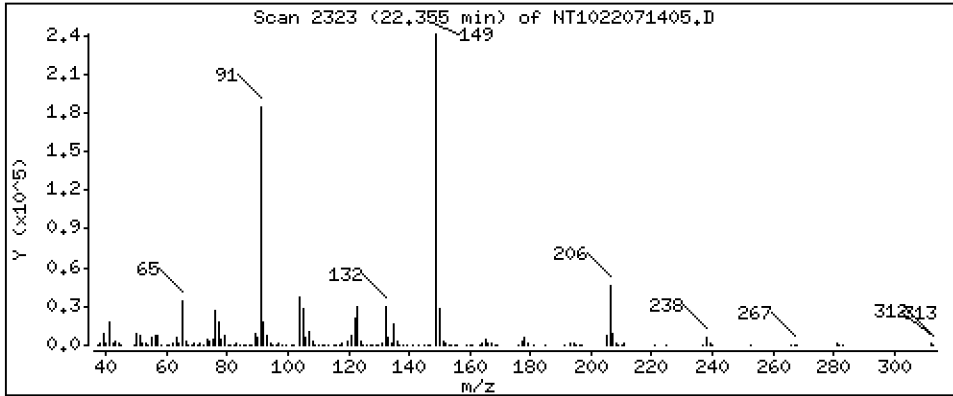
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,226 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

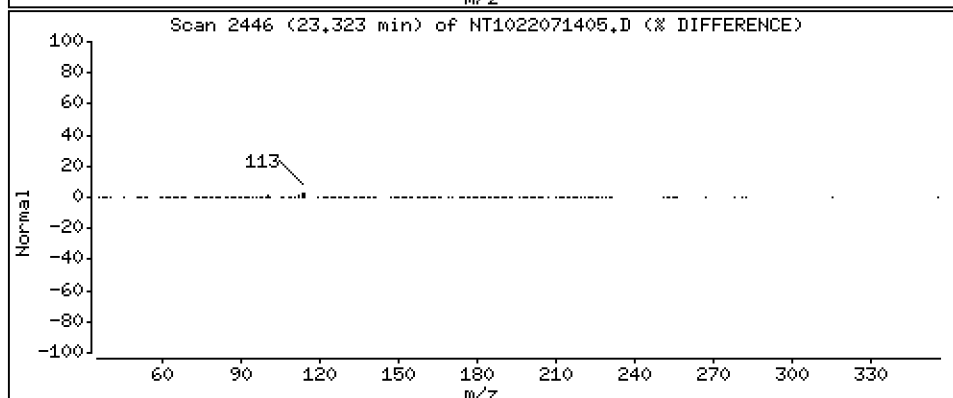
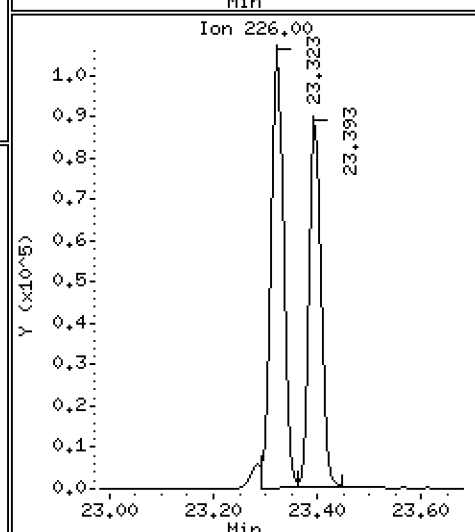
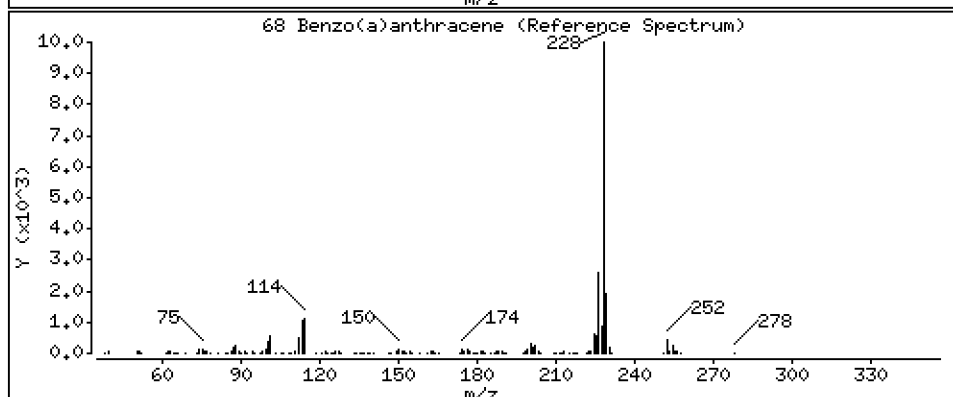
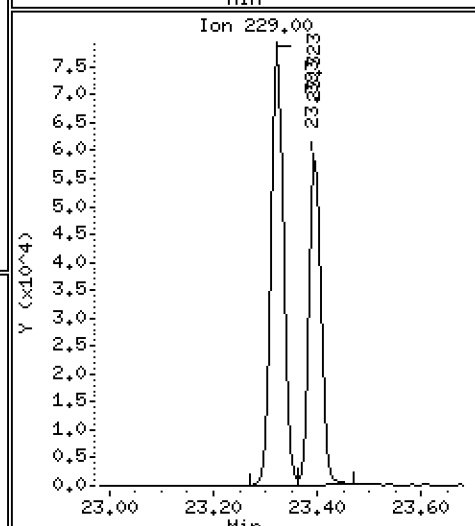
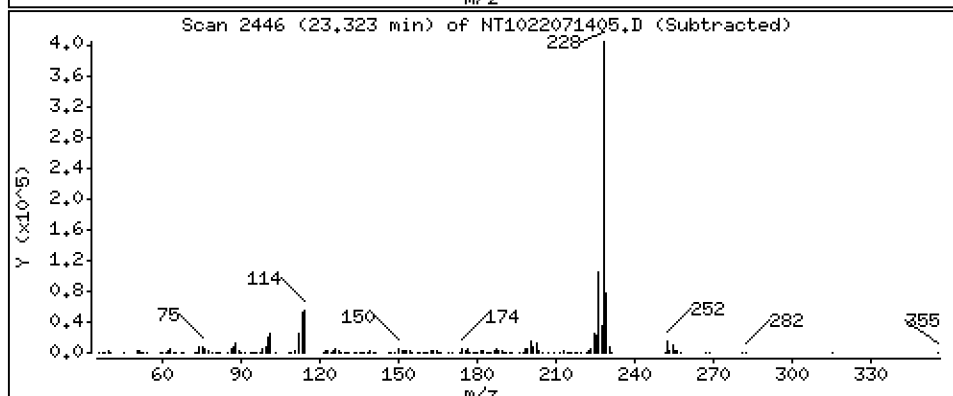
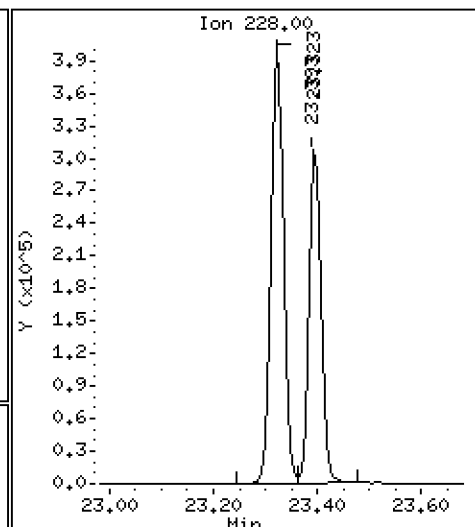
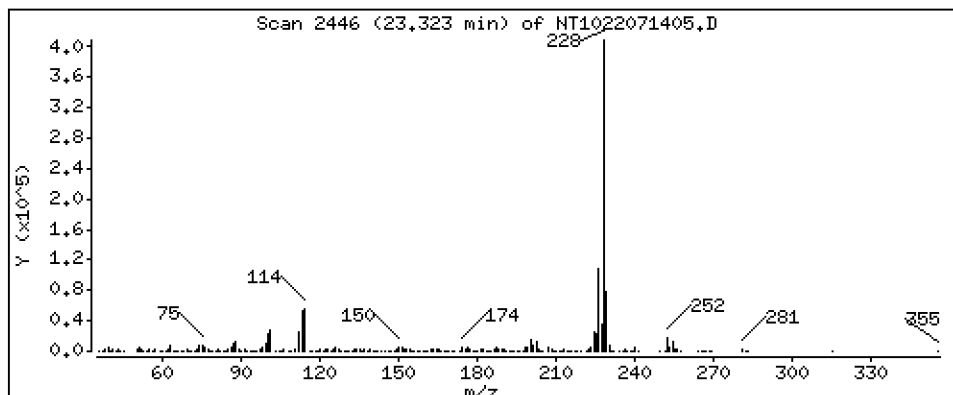
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,283 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

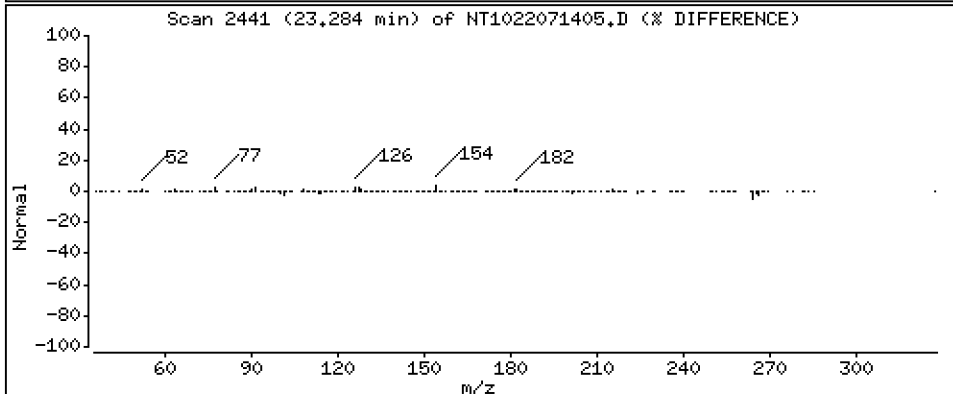
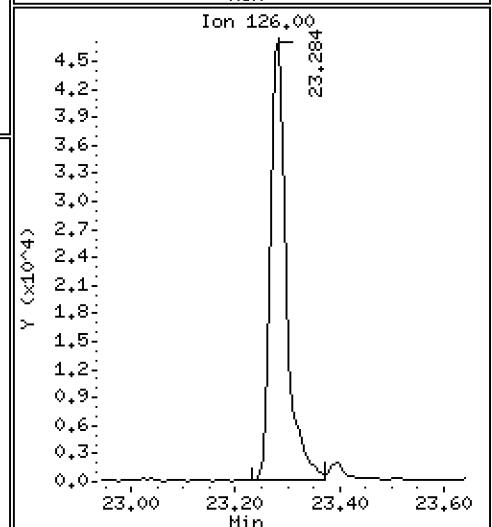
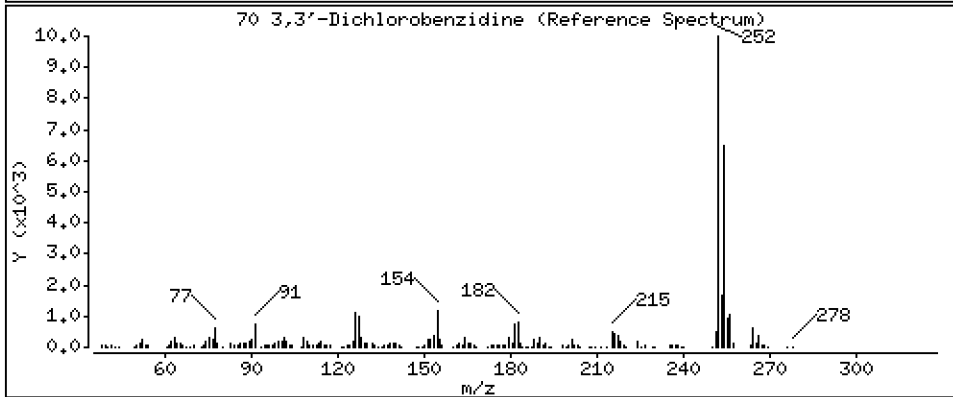
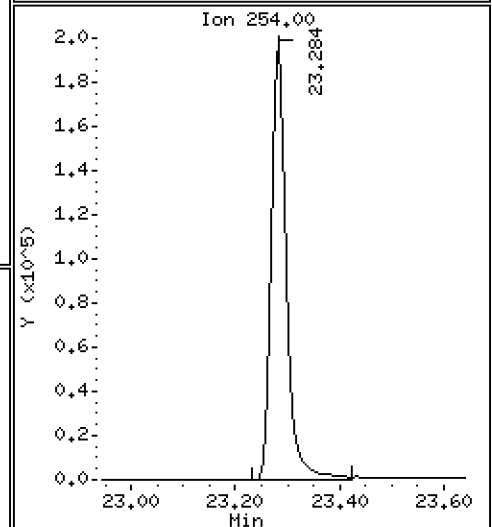
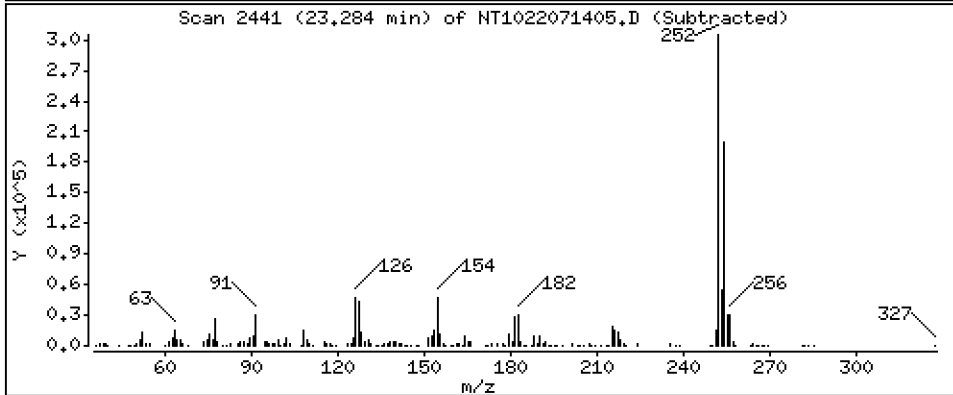
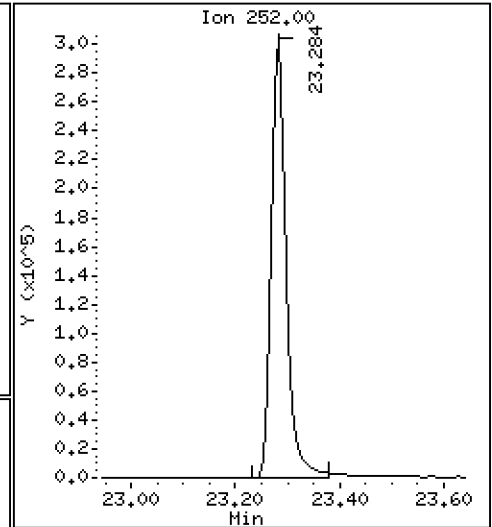
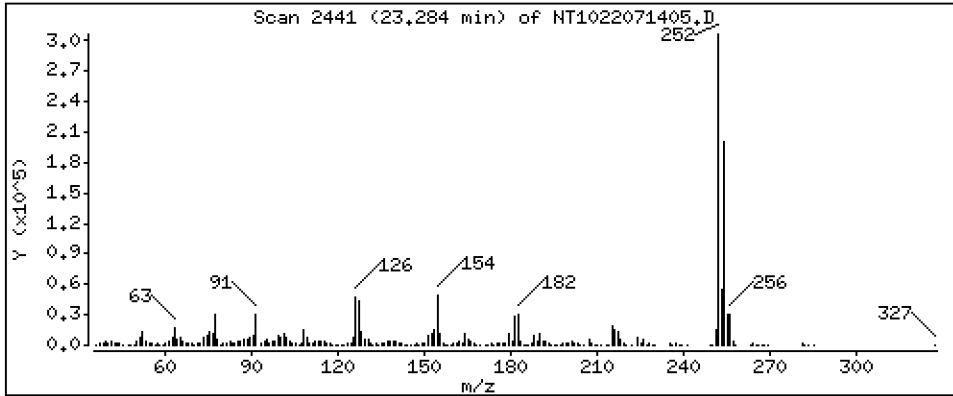
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 11,99 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

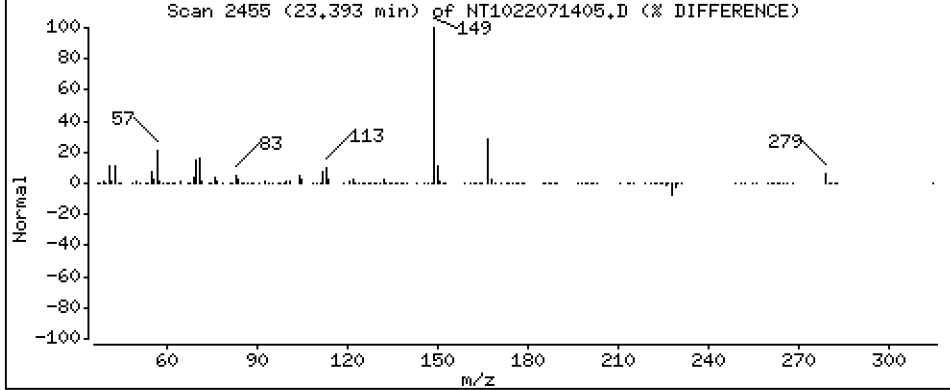
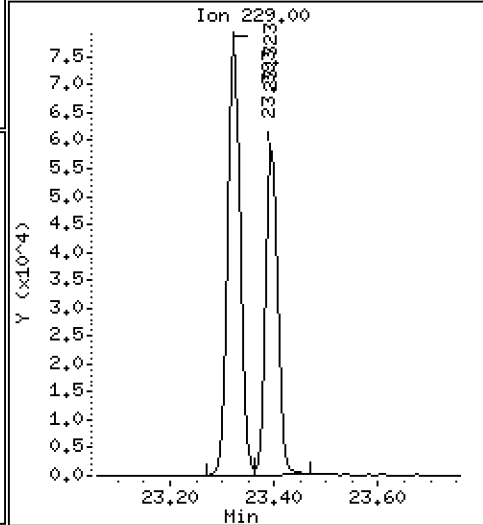
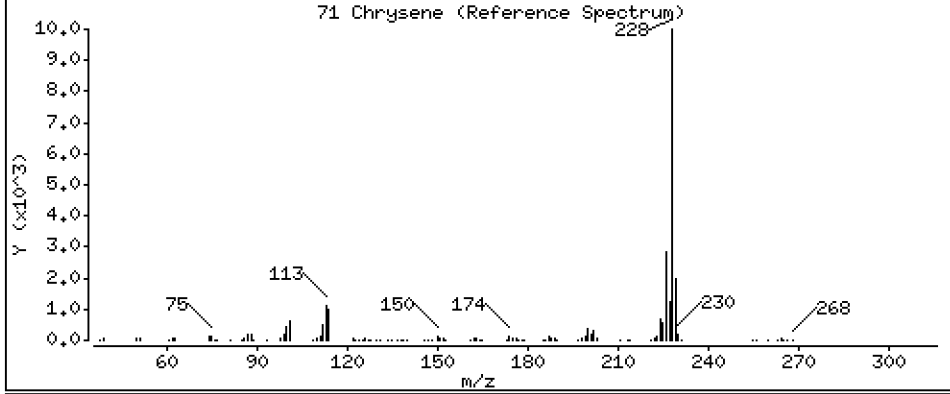
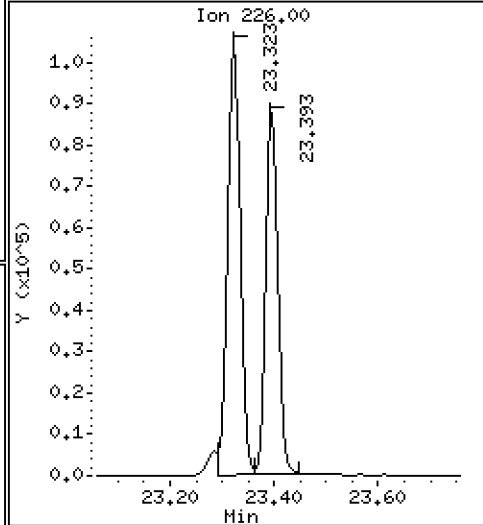
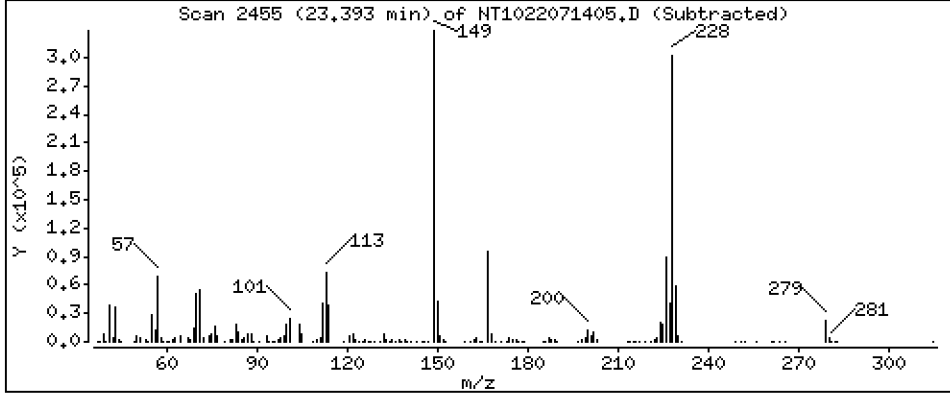
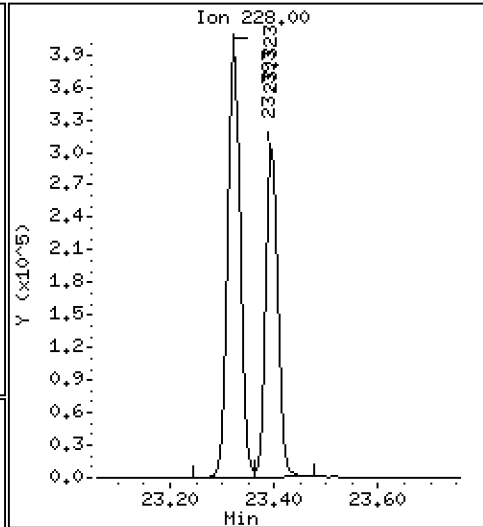
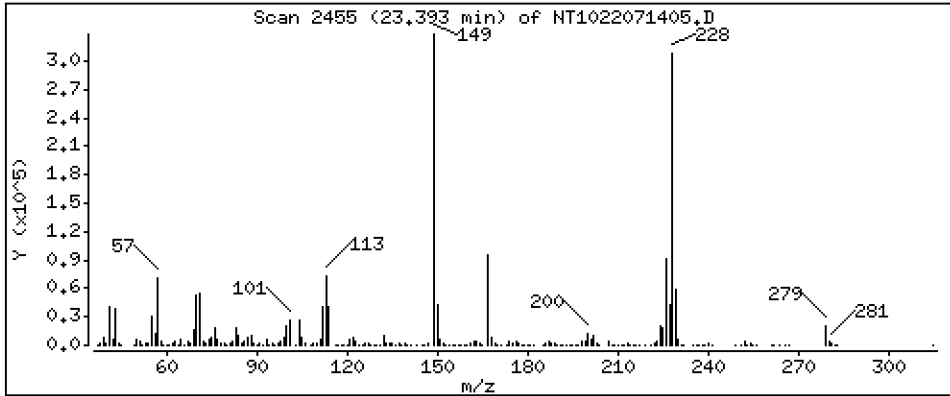
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,643 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

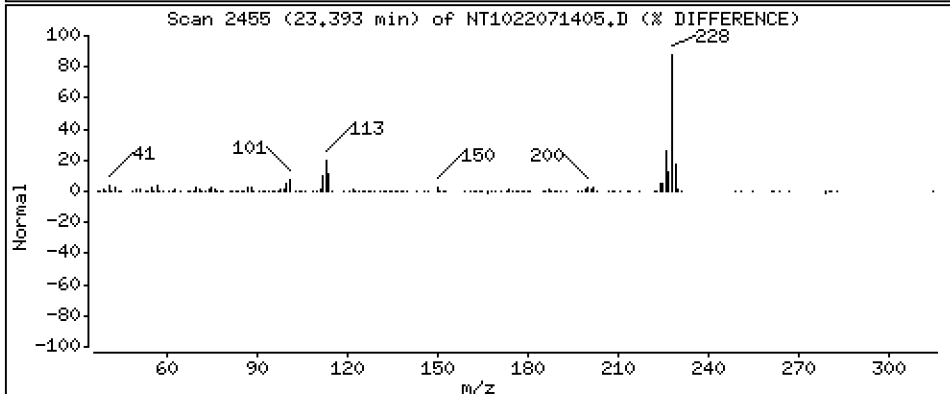
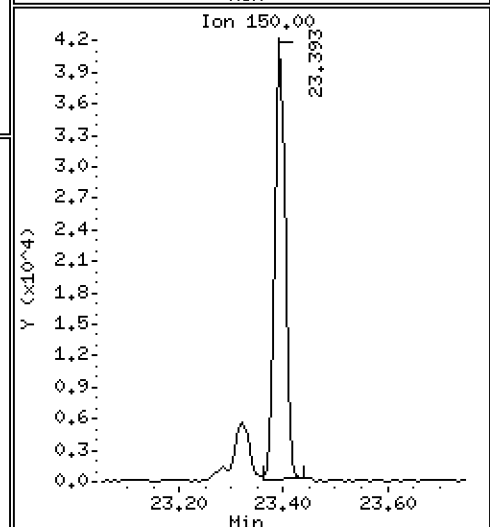
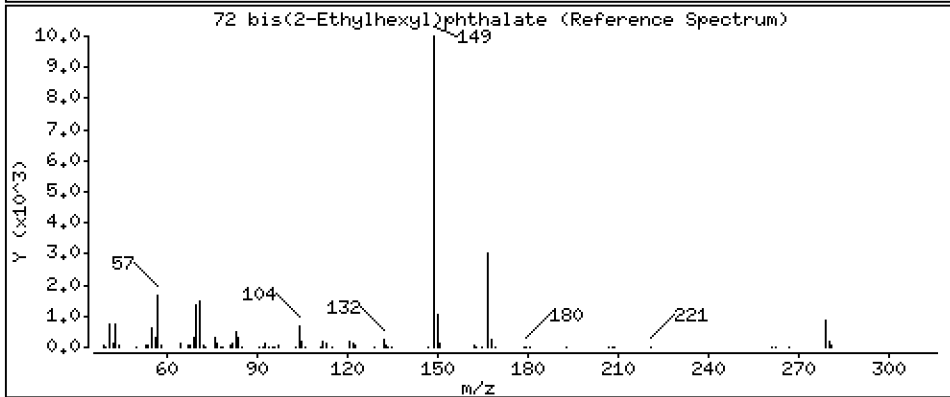
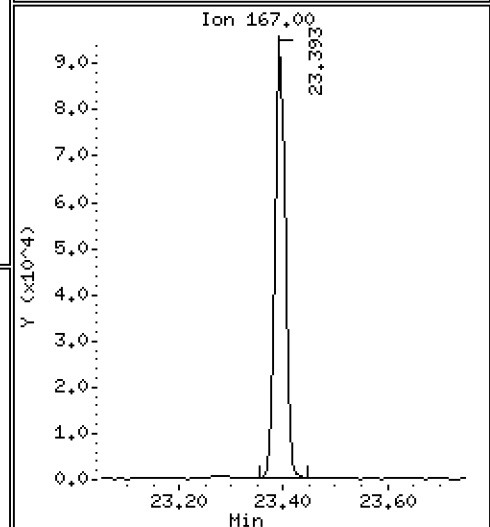
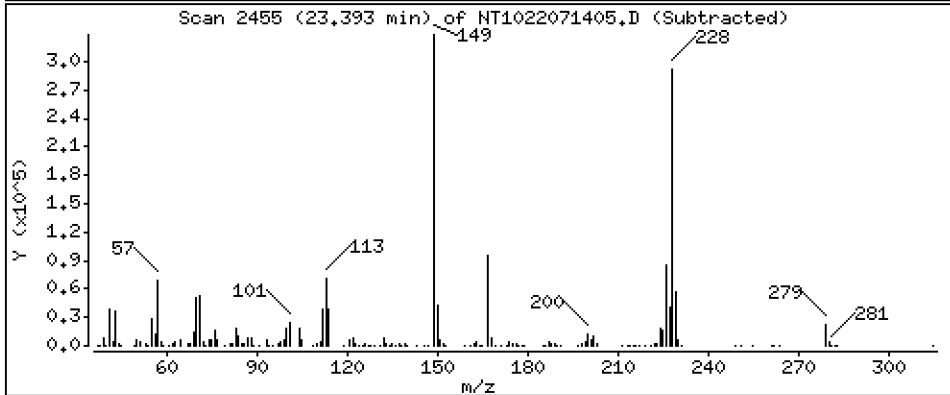
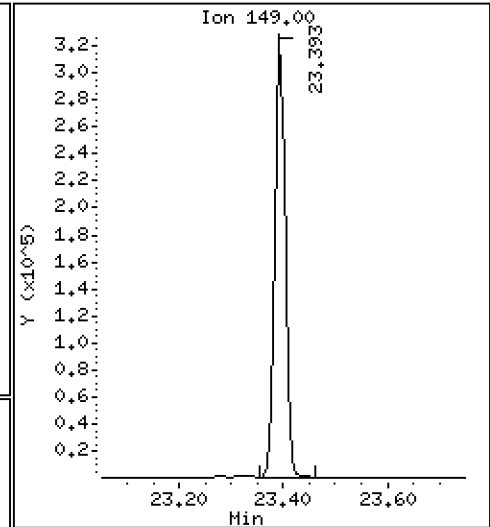
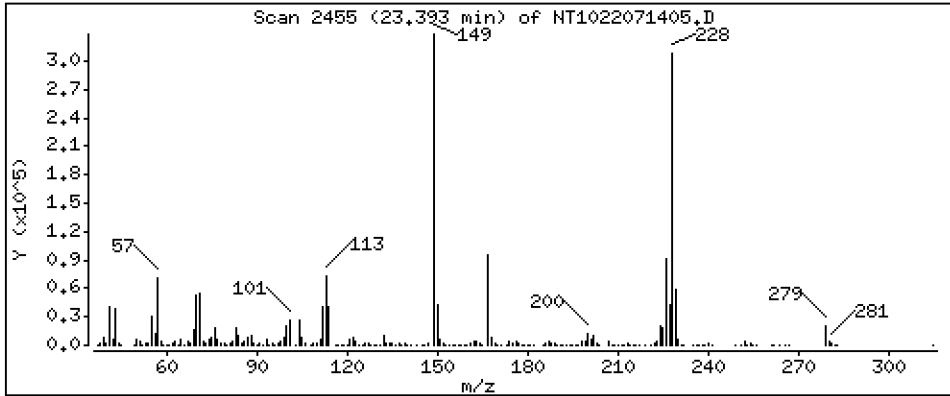
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,915 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

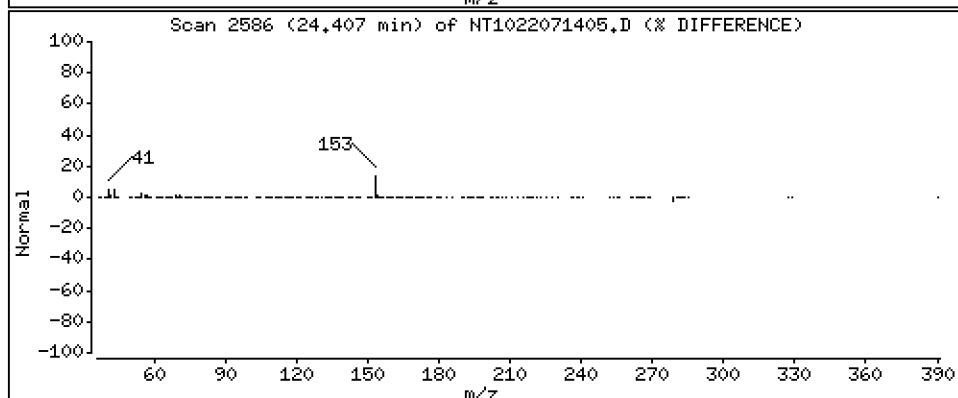
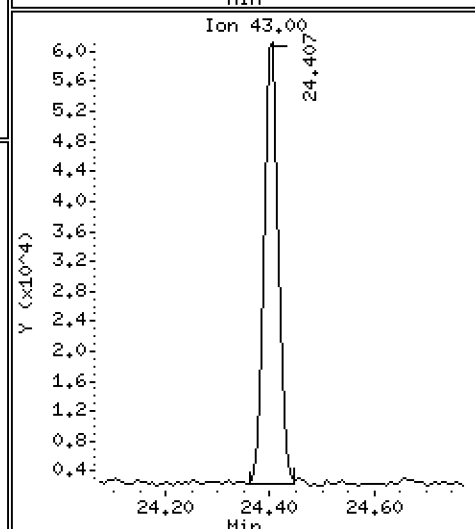
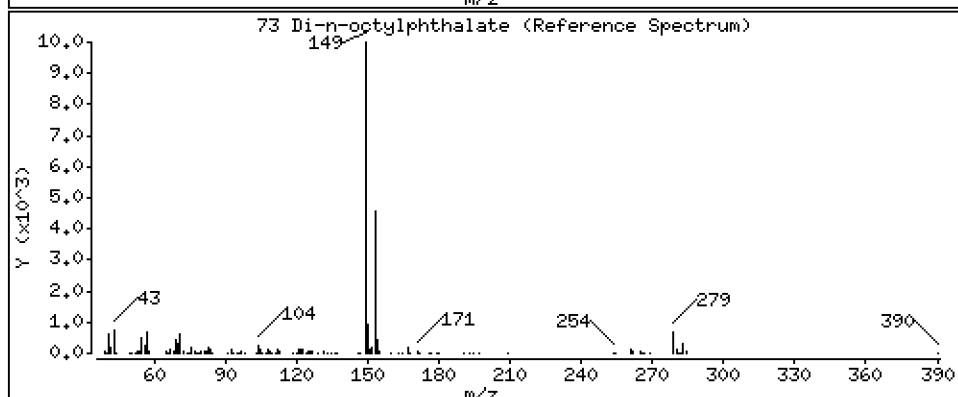
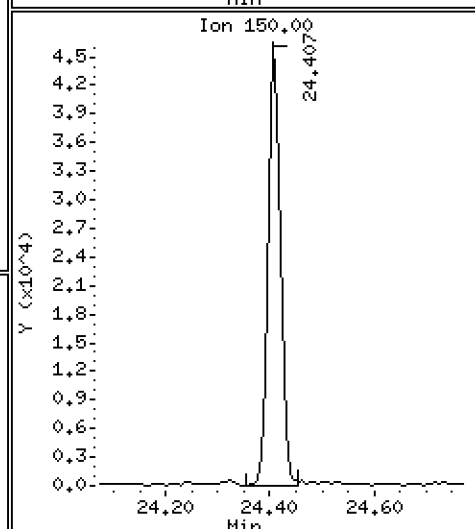
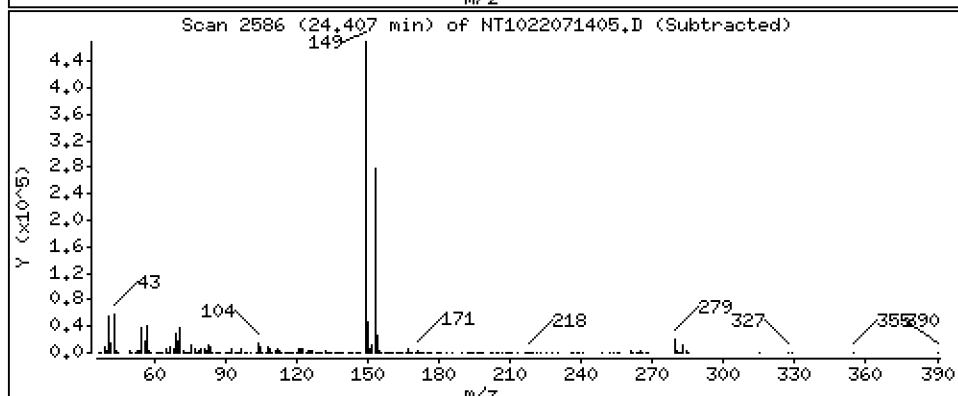
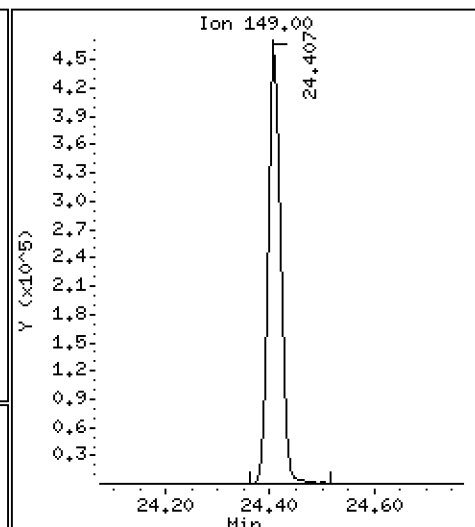
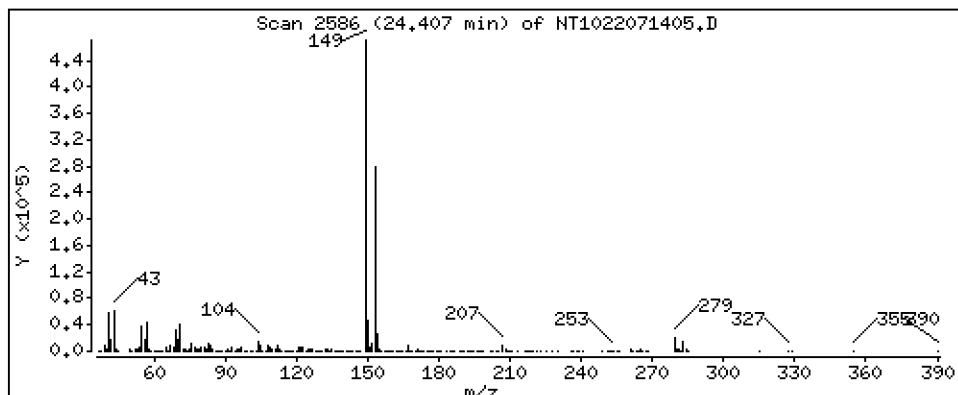
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,148 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

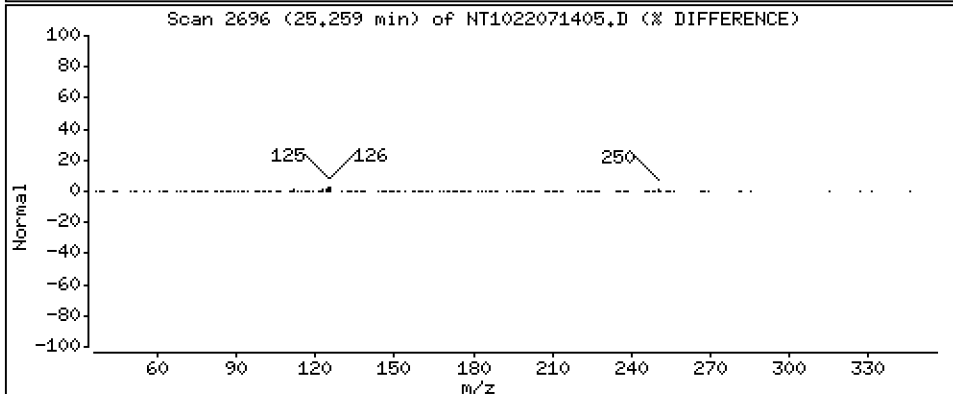
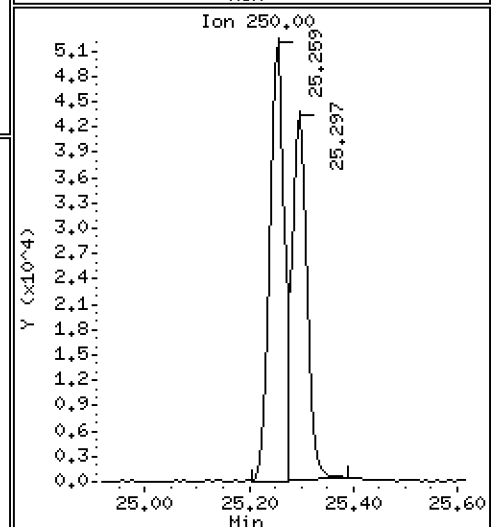
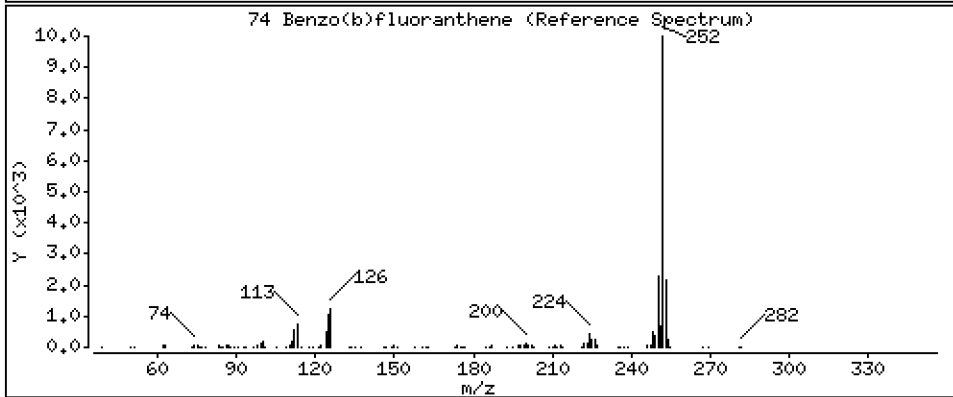
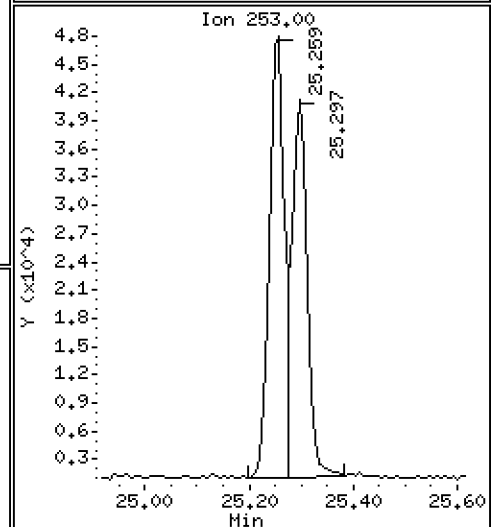
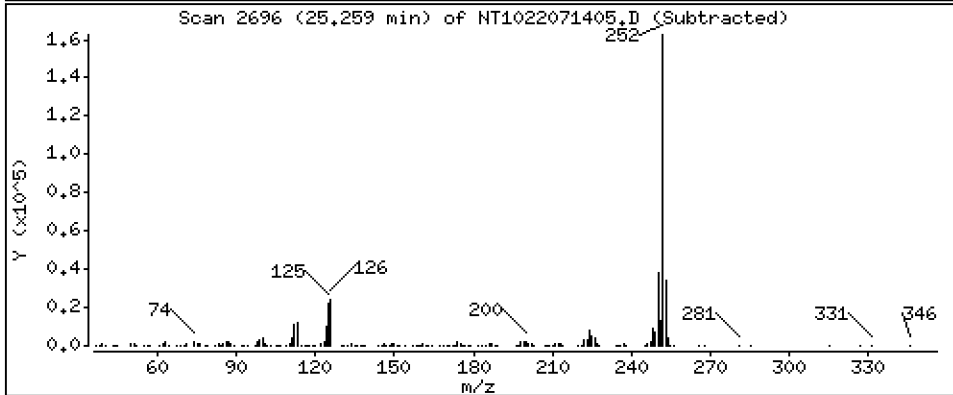
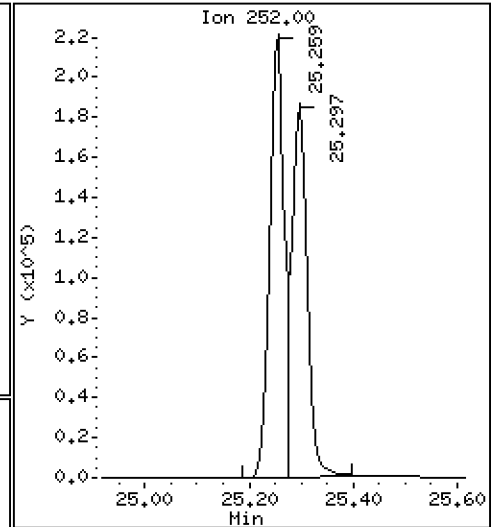
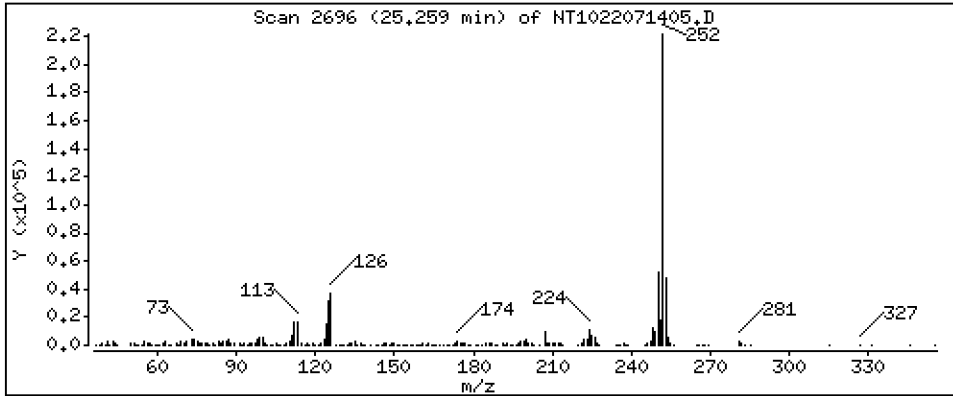
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,590 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

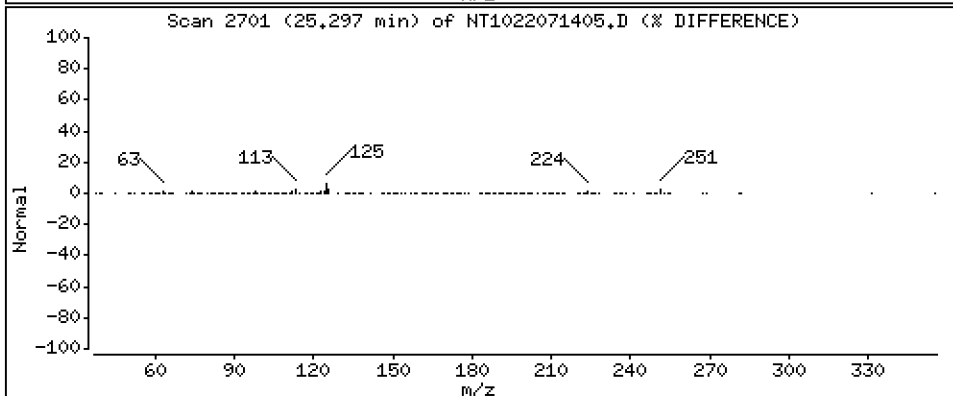
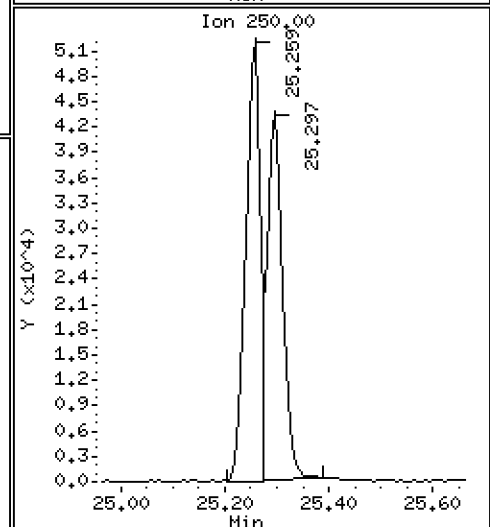
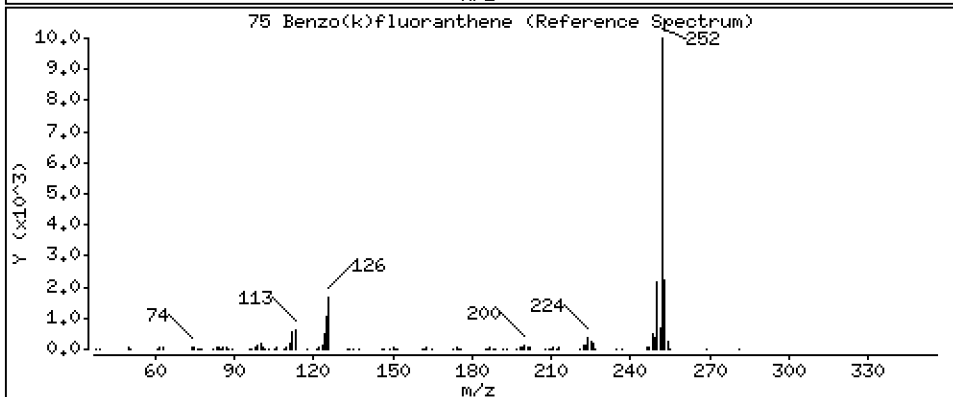
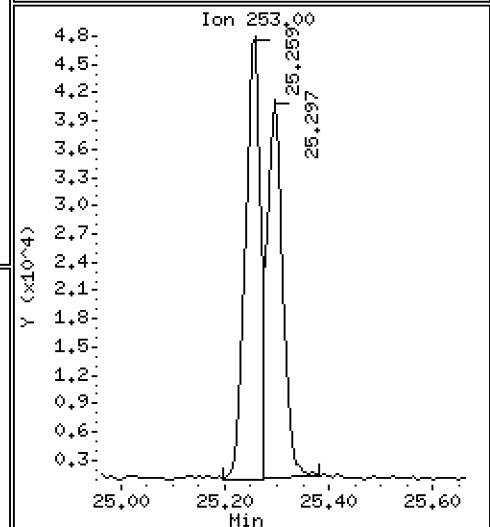
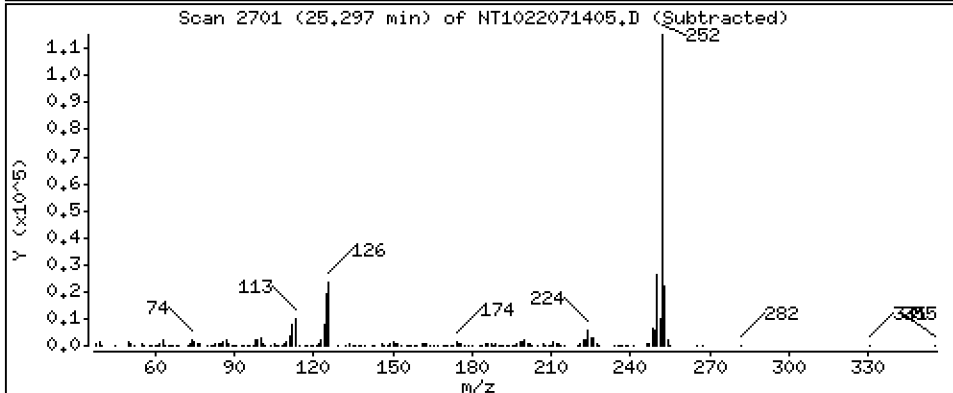
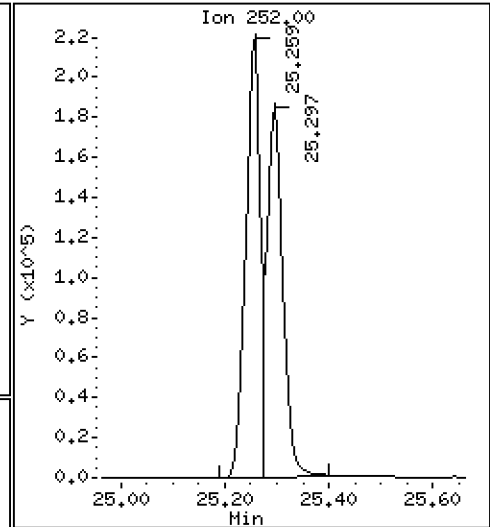
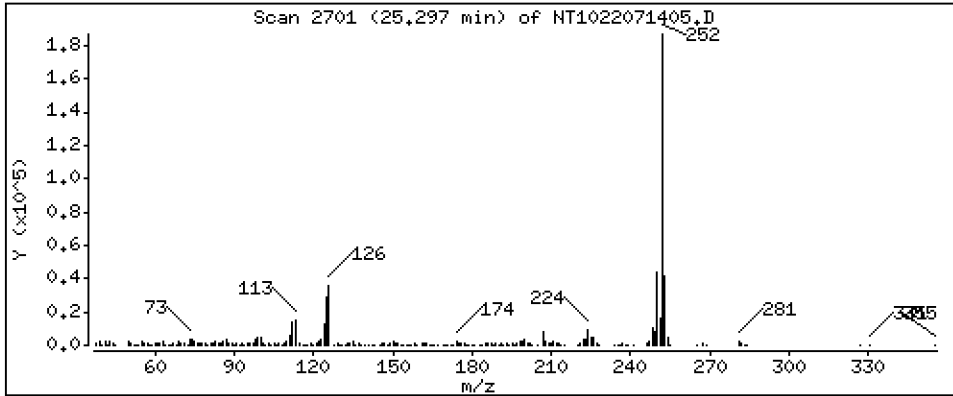
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,584 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

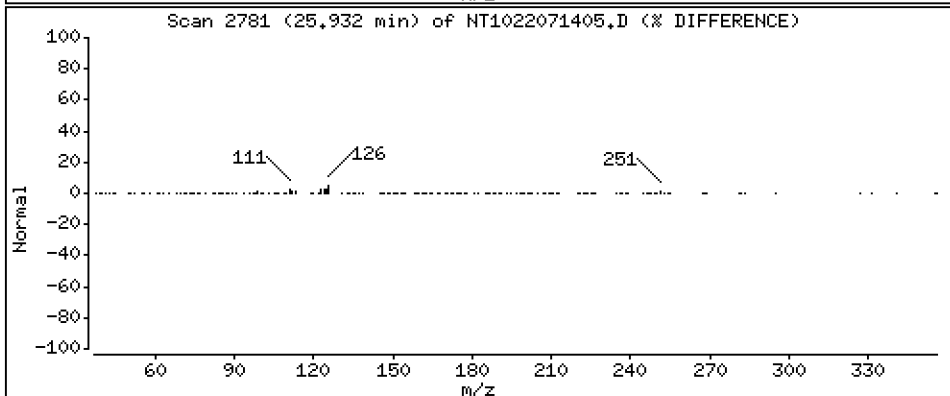
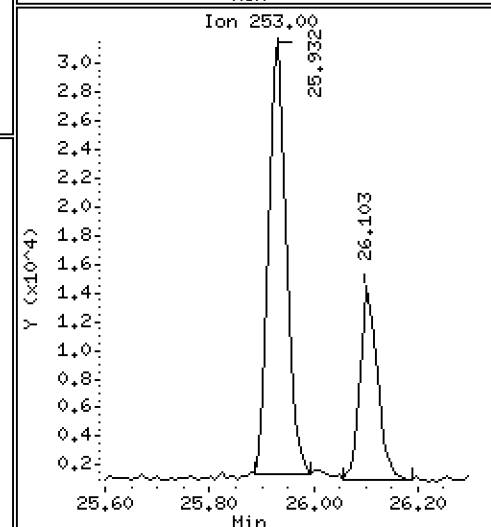
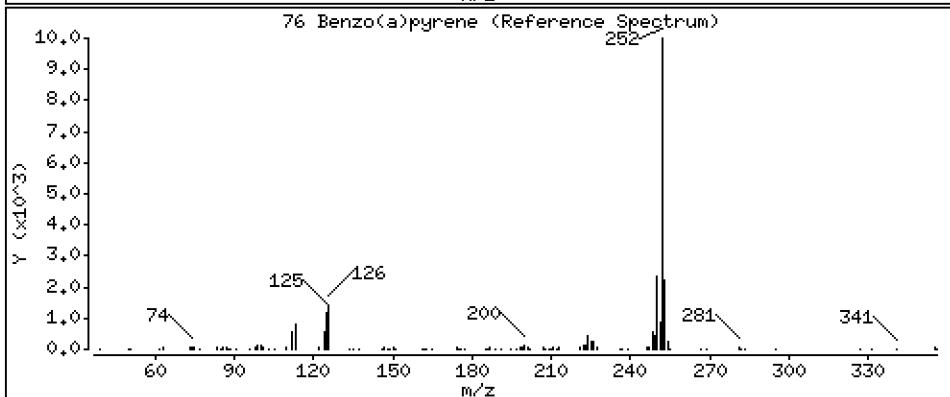
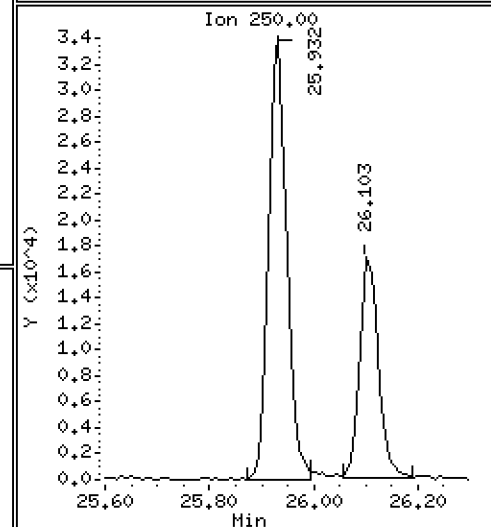
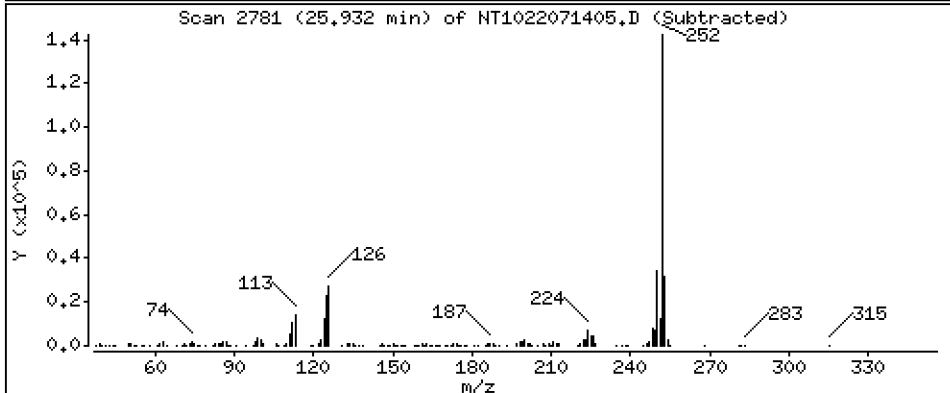
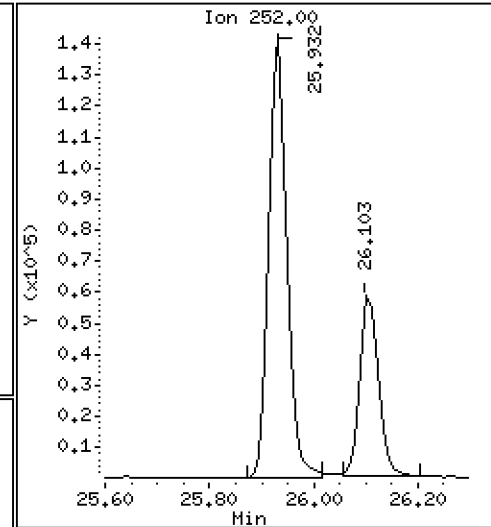
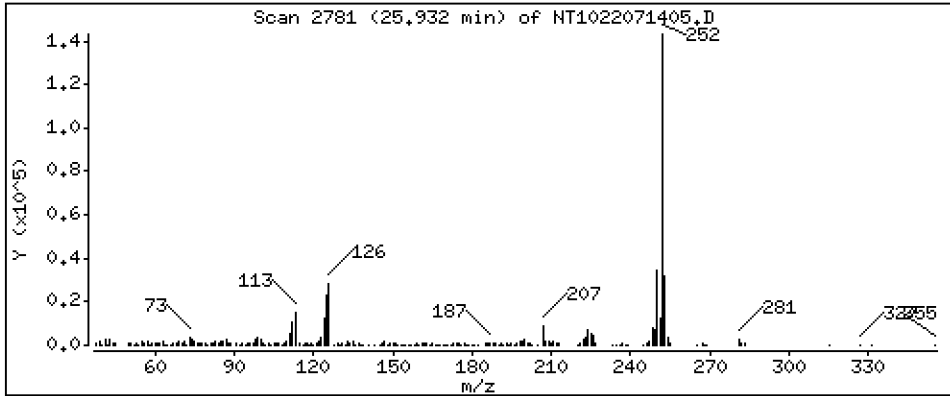
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,389 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

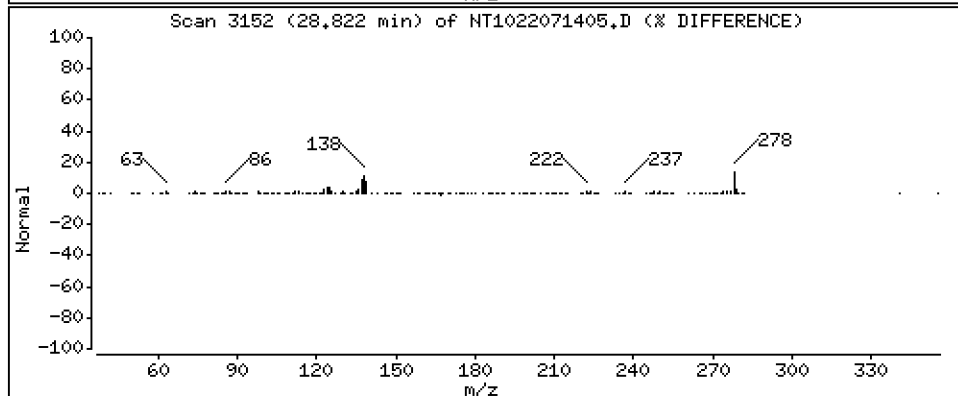
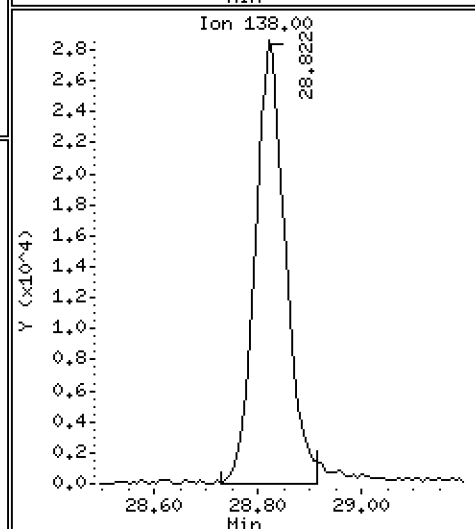
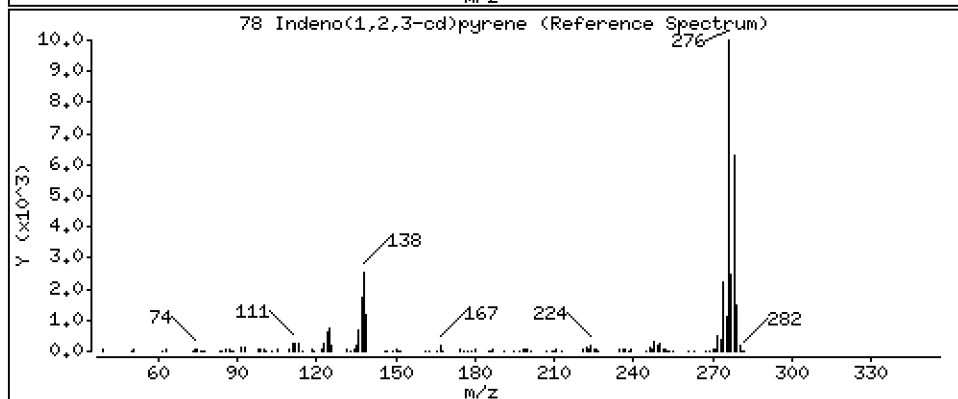
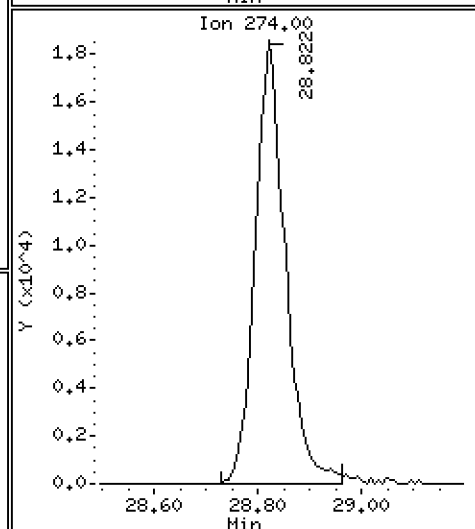
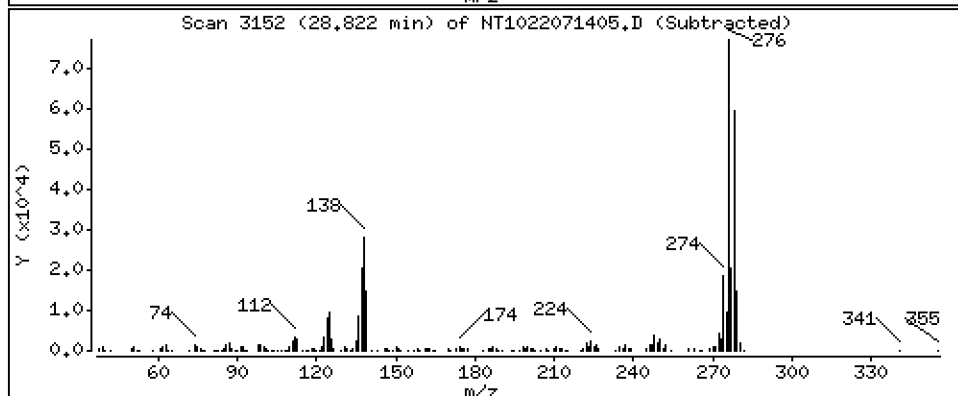
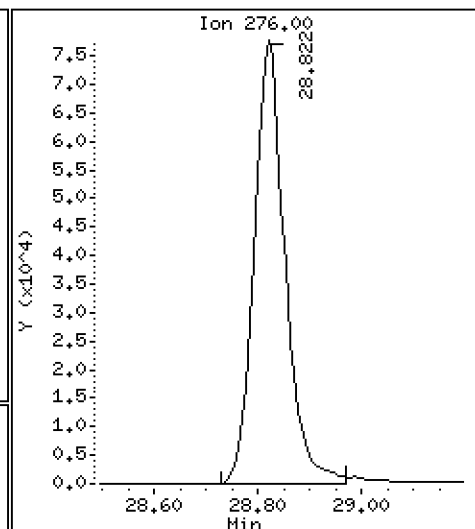
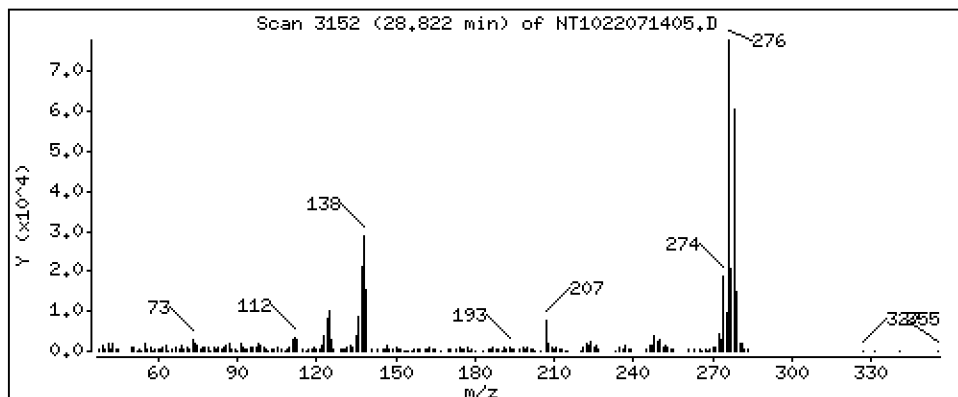
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 3,925 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

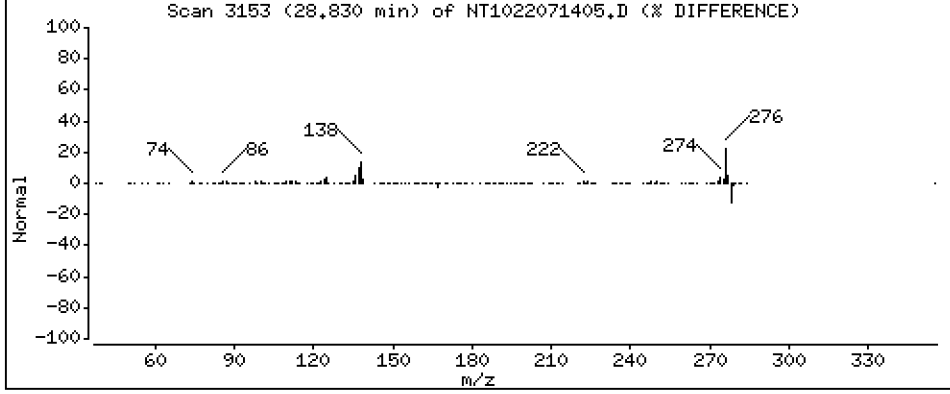
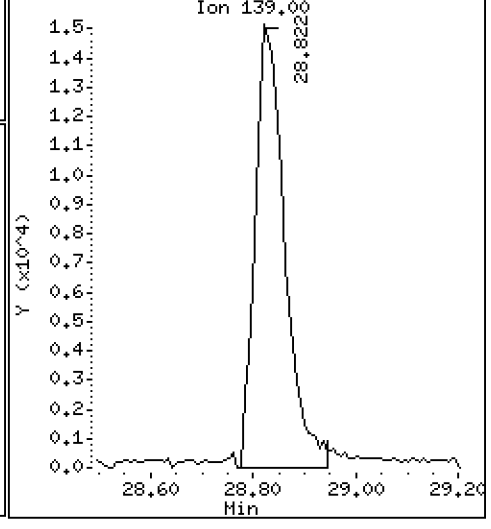
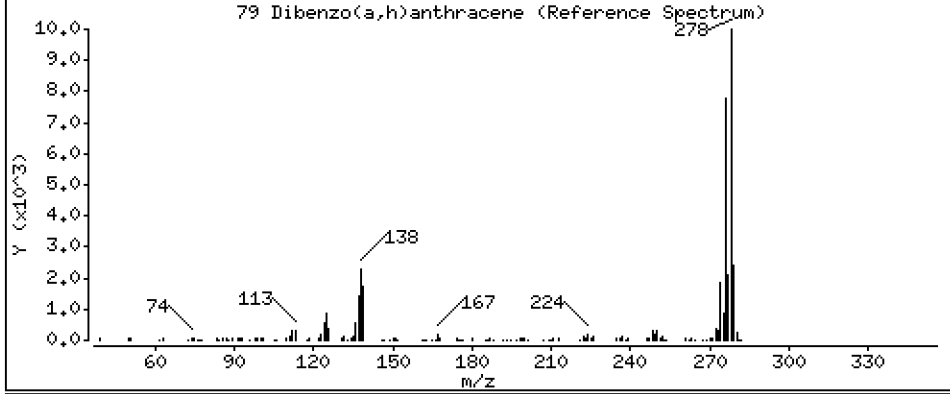
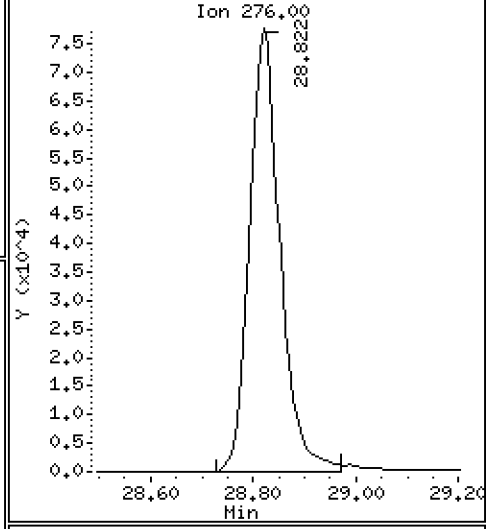
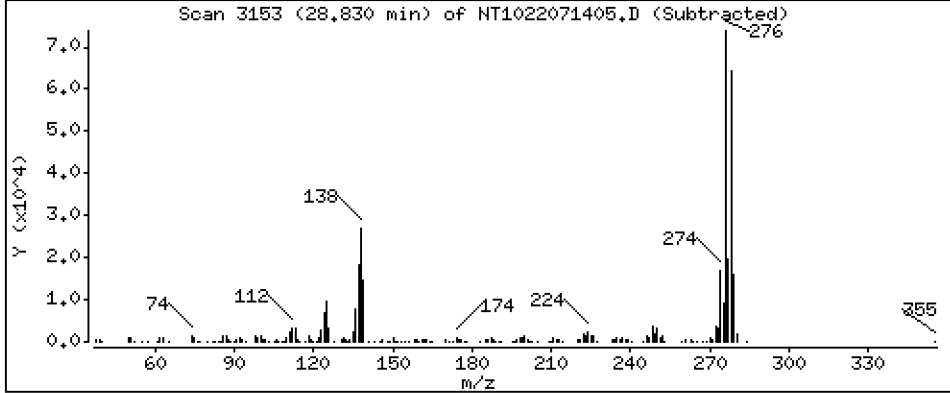
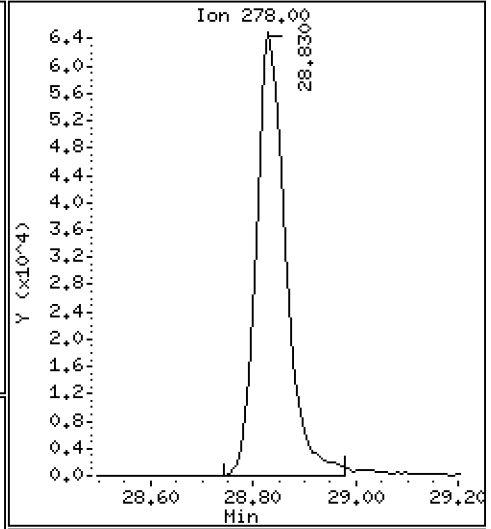
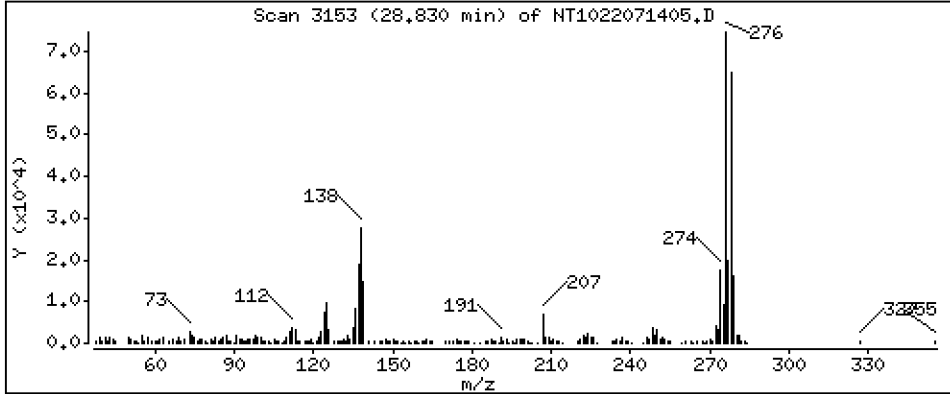
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,085 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

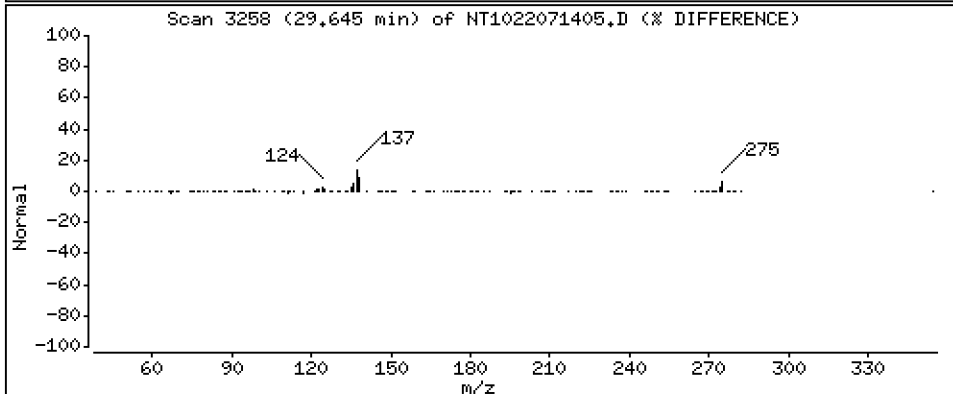
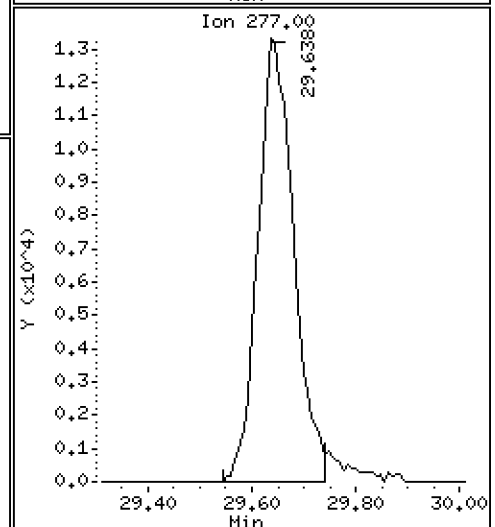
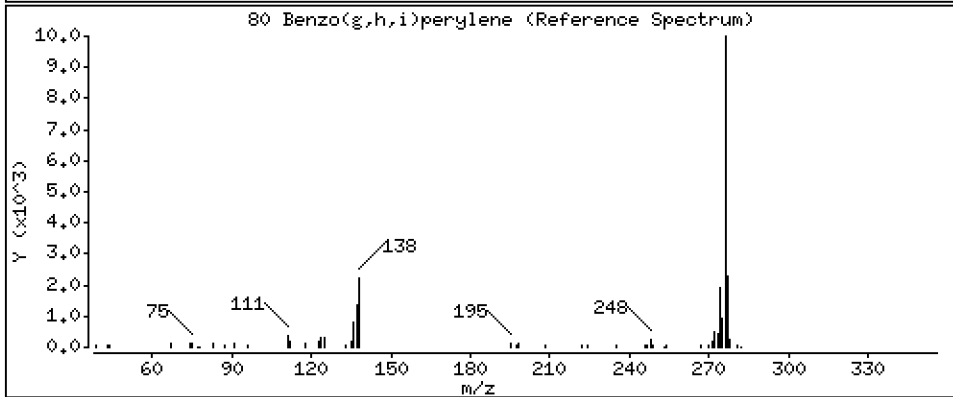
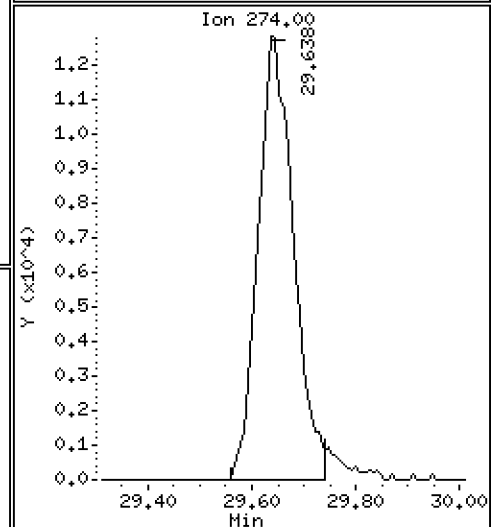
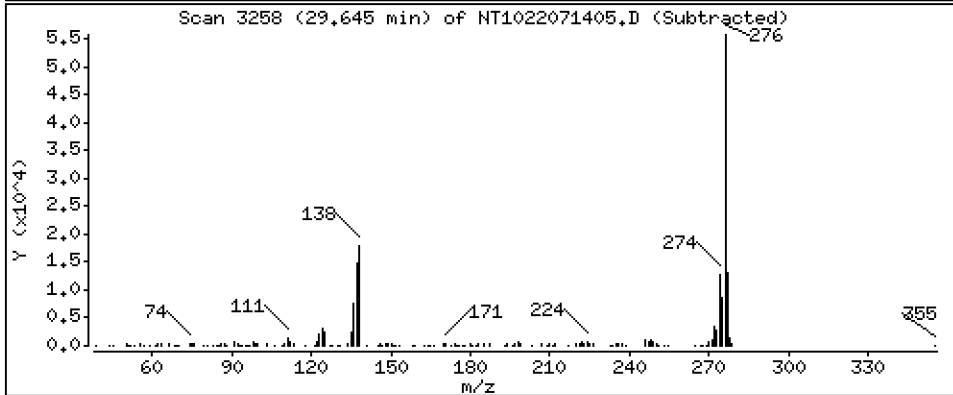
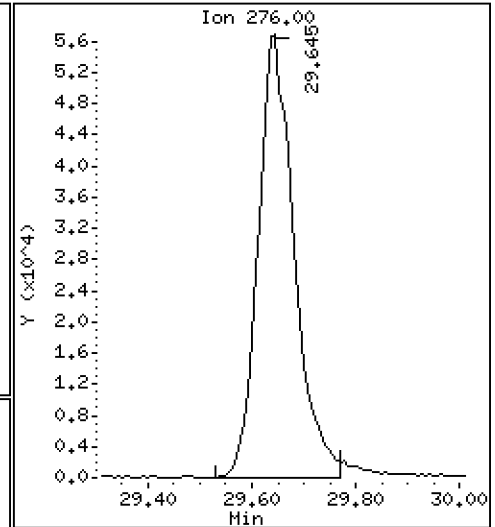
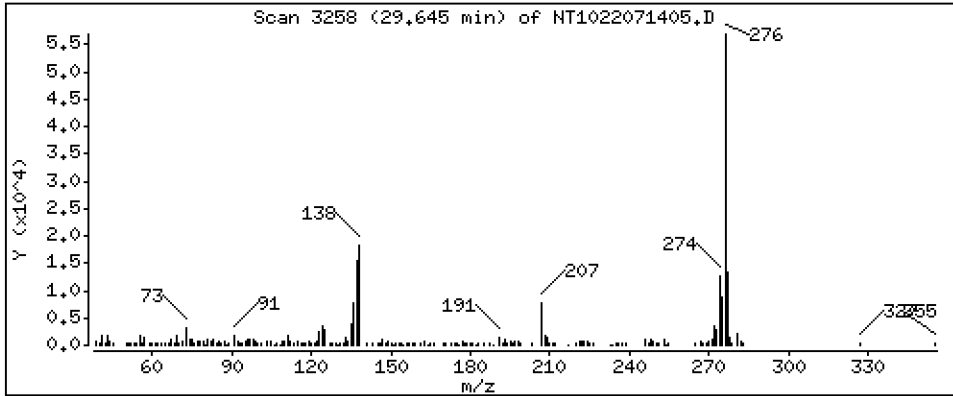
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,180 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

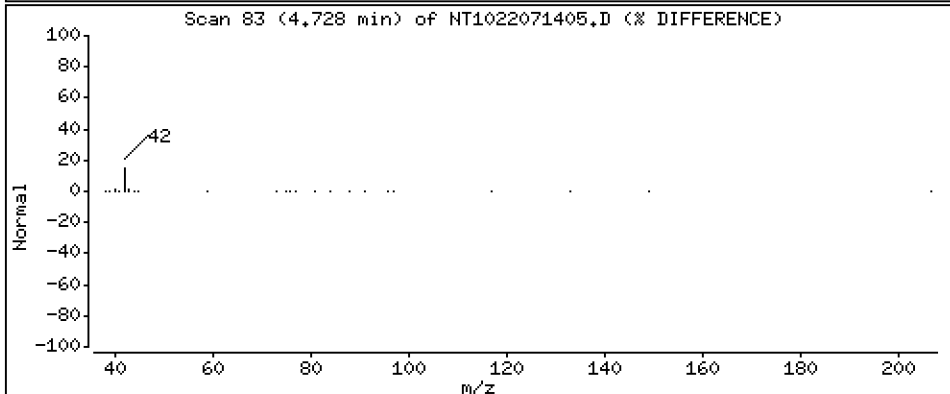
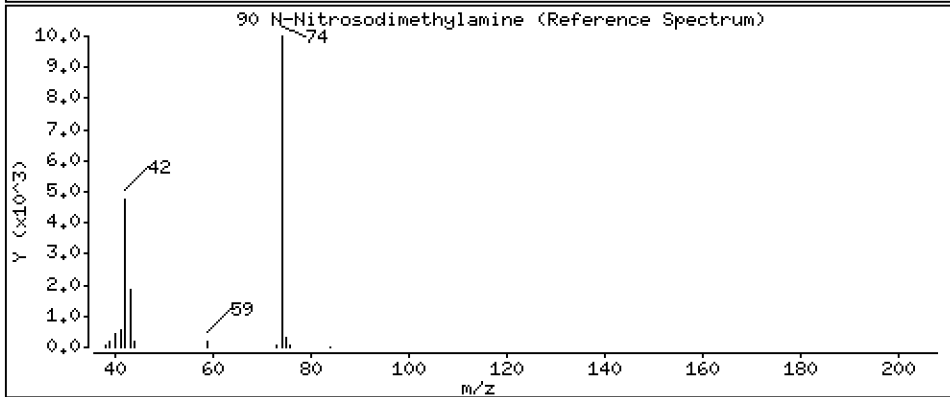
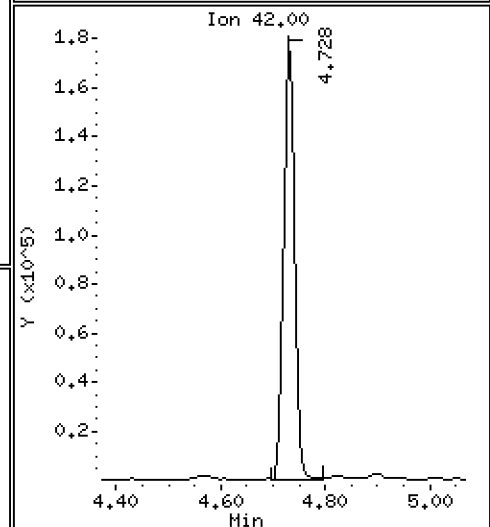
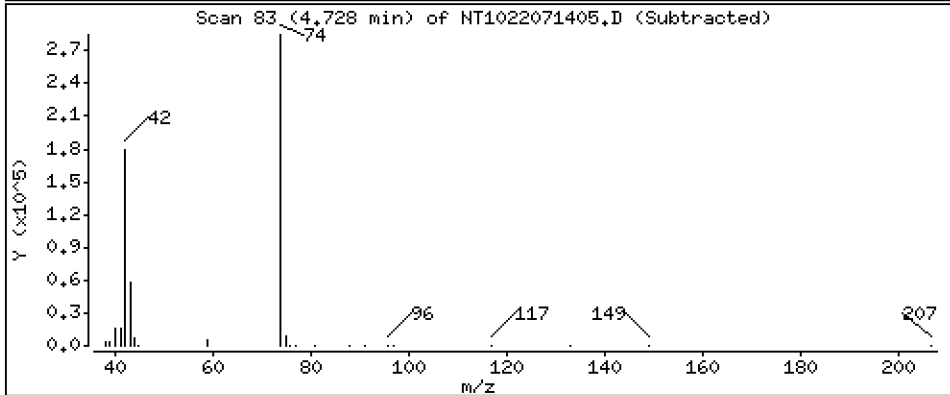
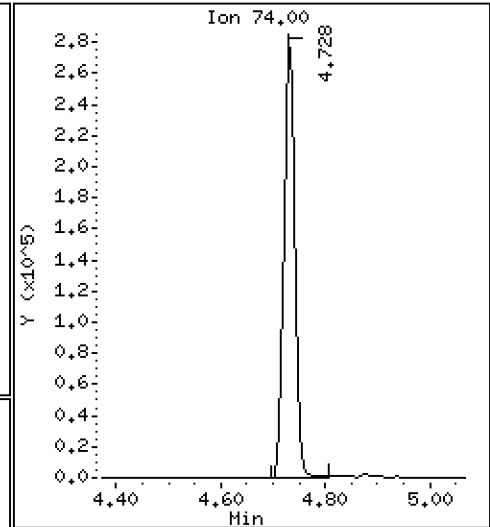
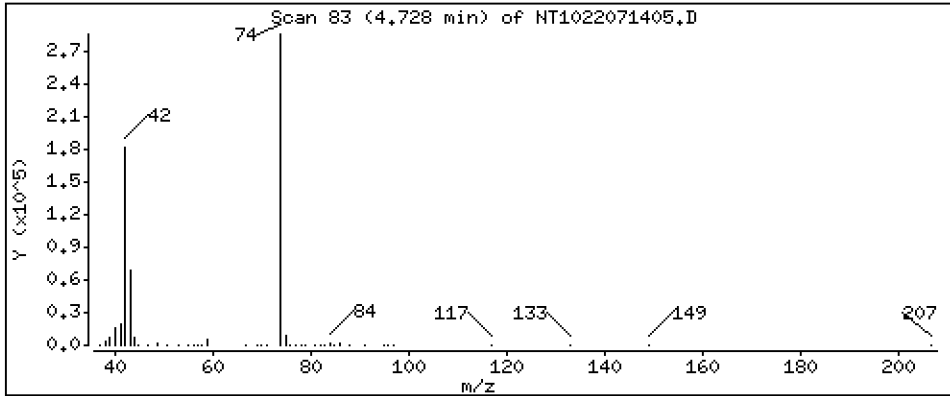
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 9,262 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

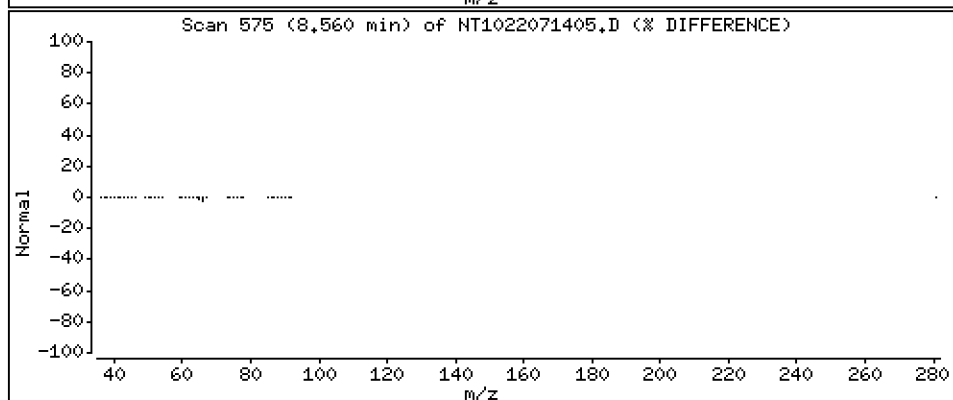
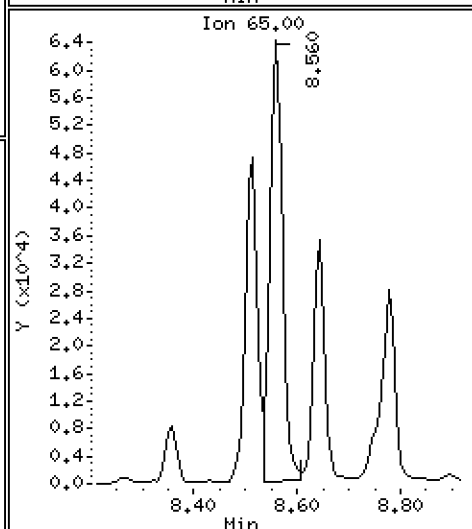
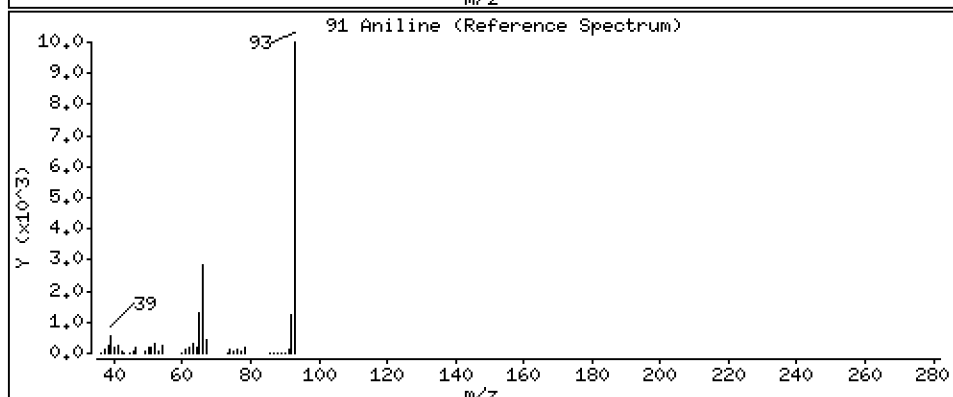
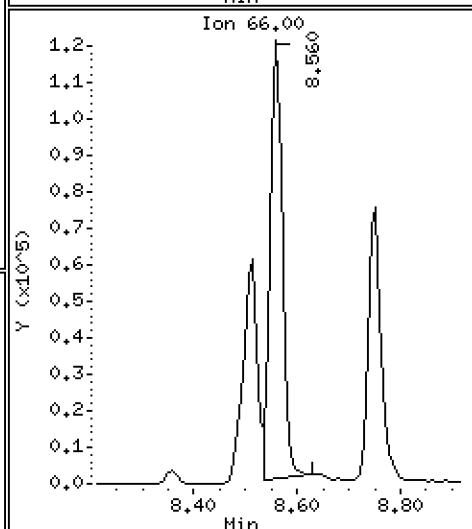
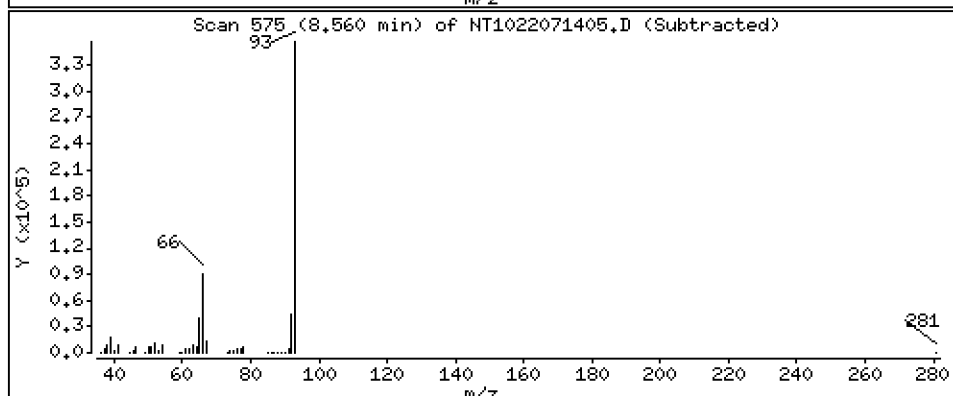
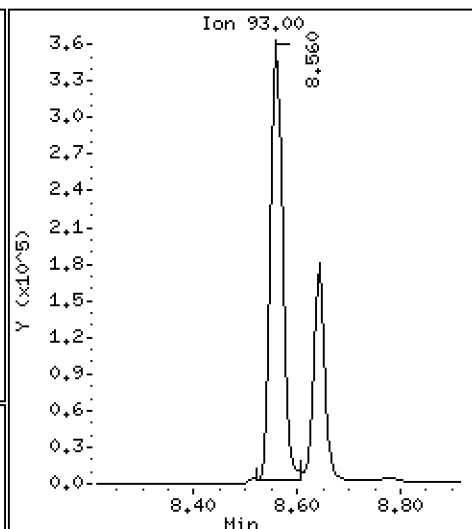
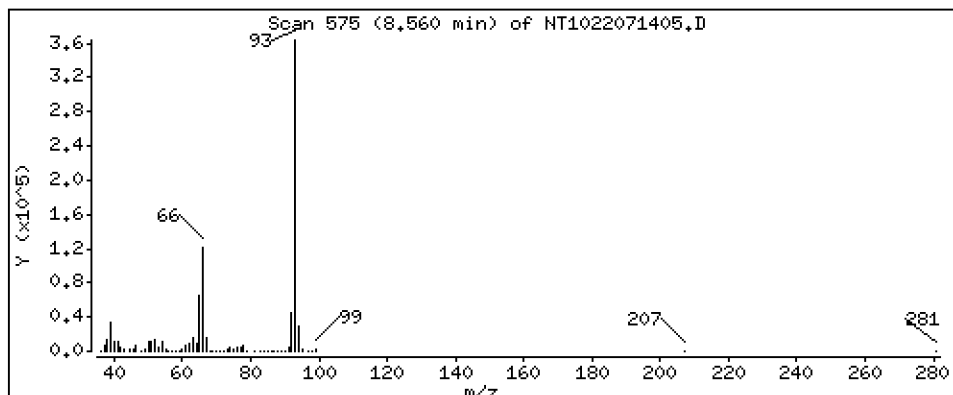
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 6,219 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

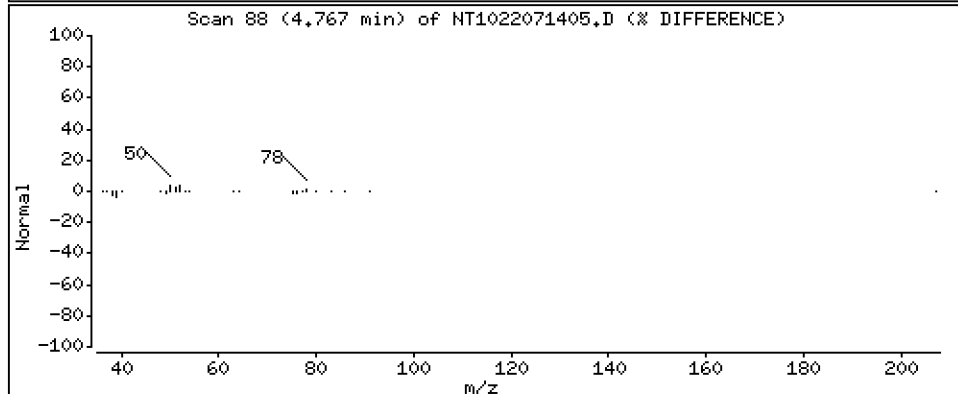
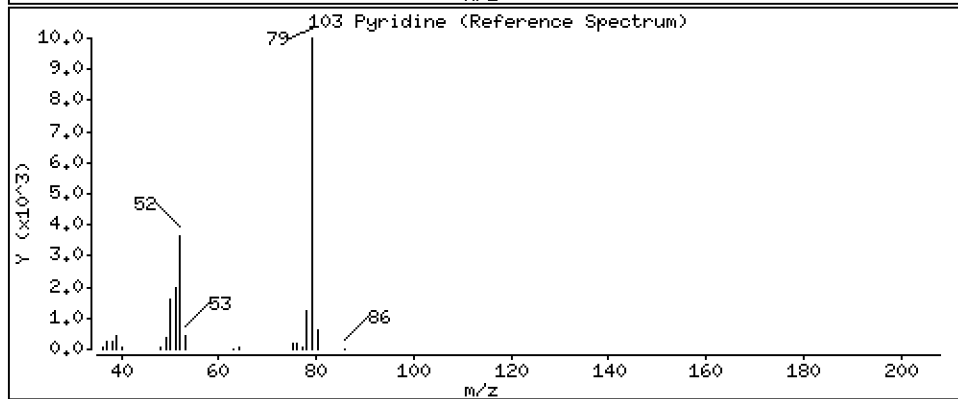
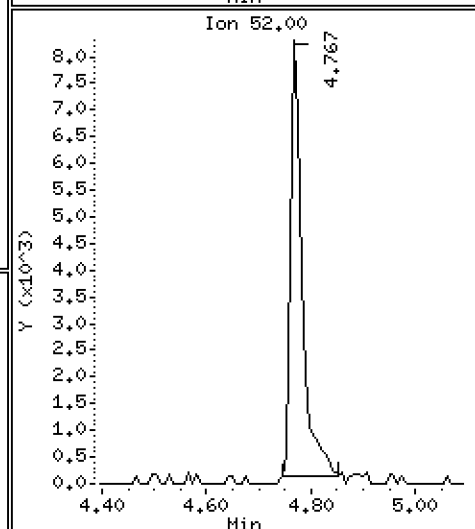
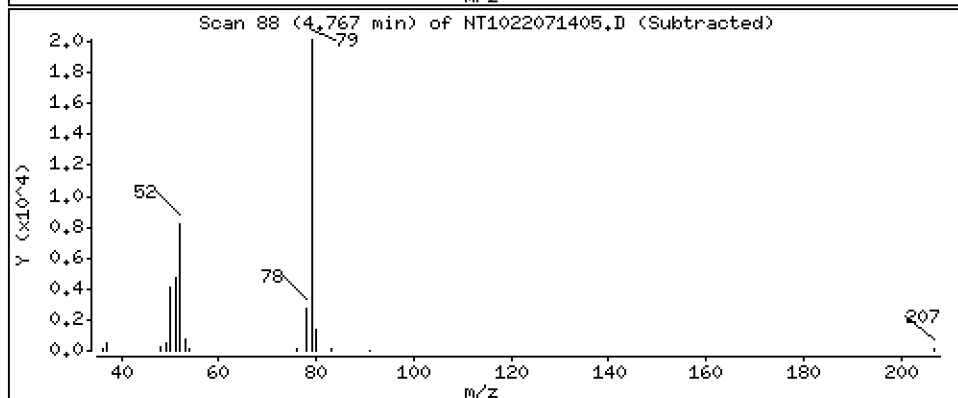
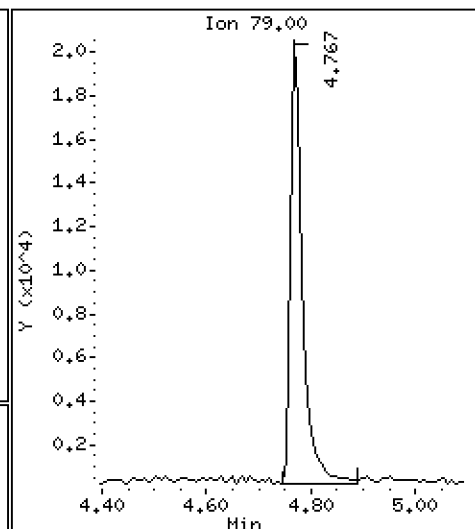
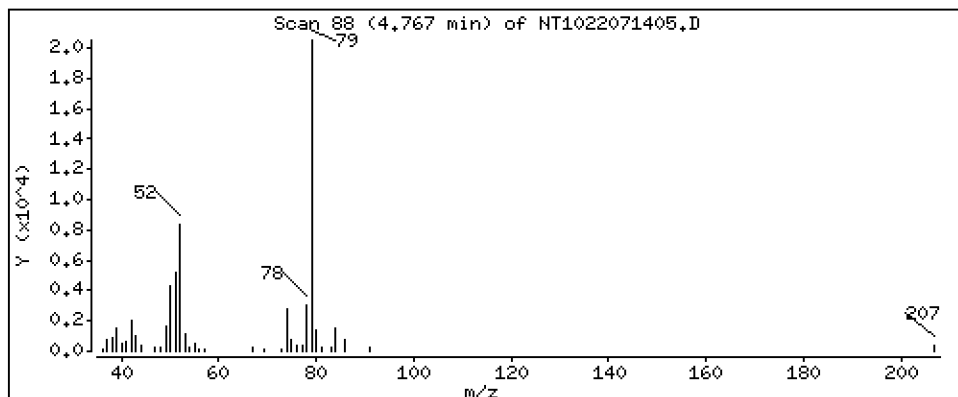
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,2707 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

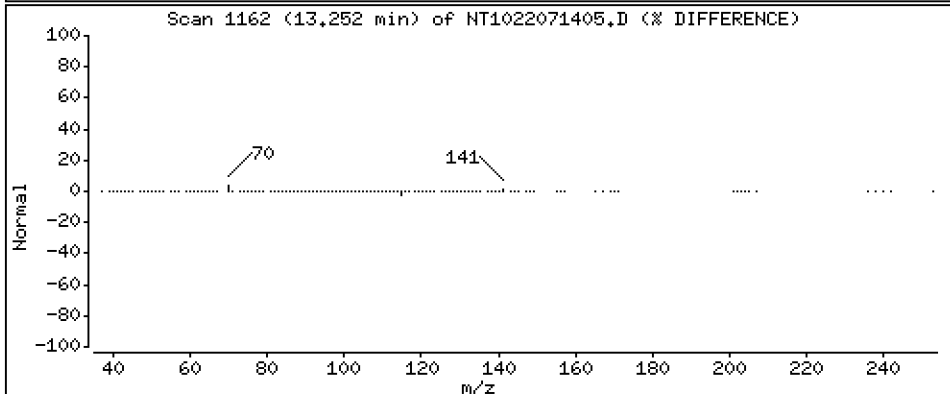
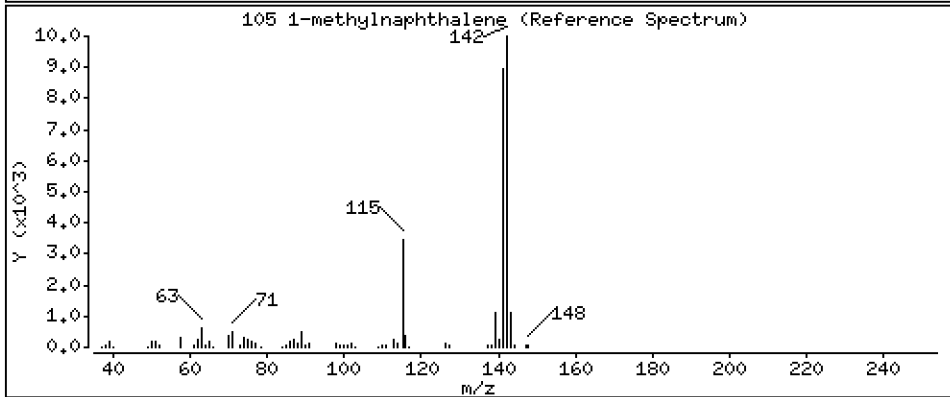
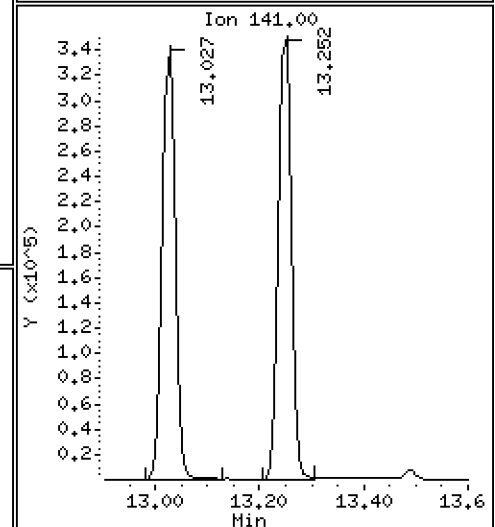
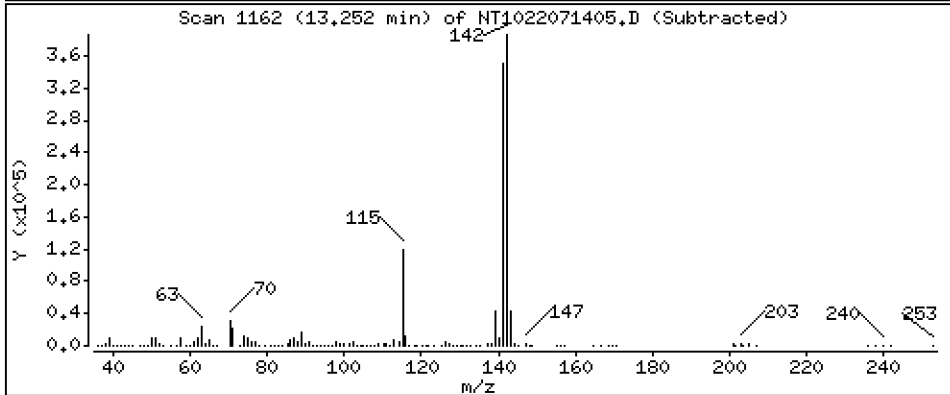
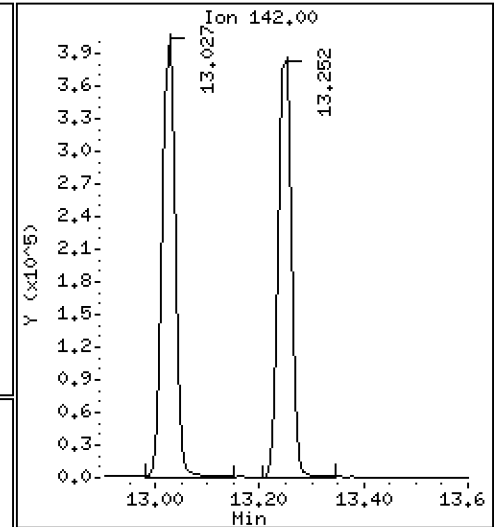
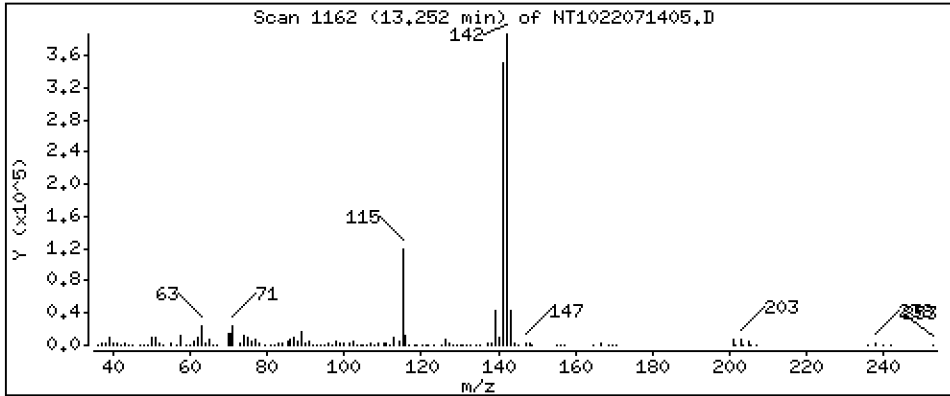
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,217 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

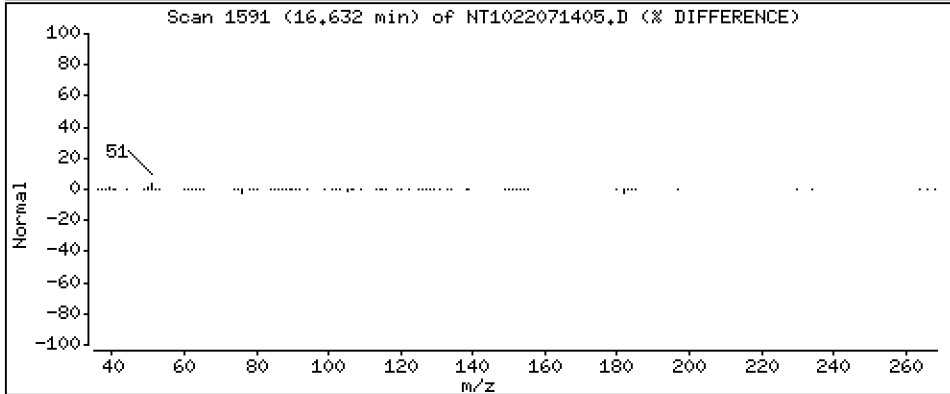
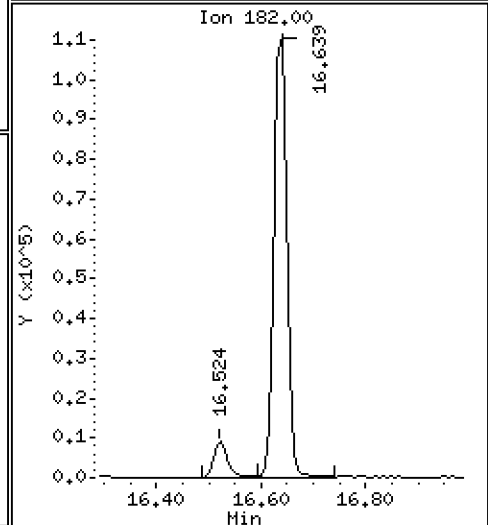
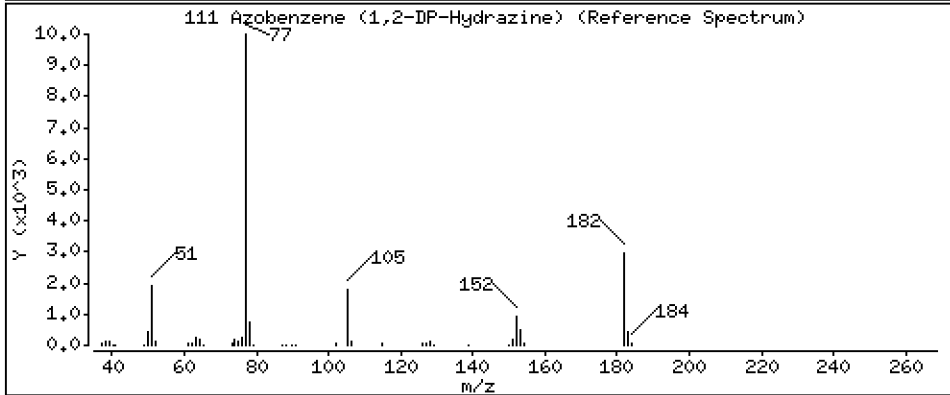
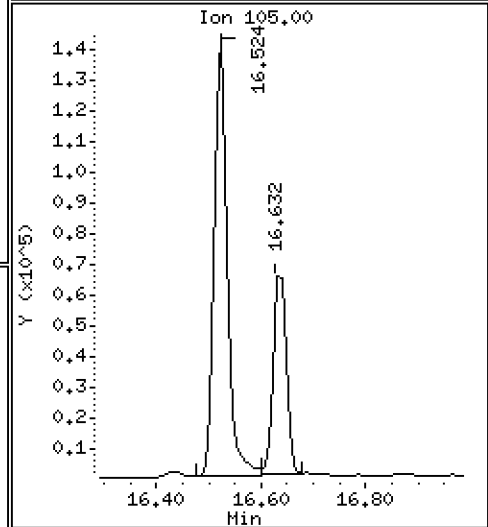
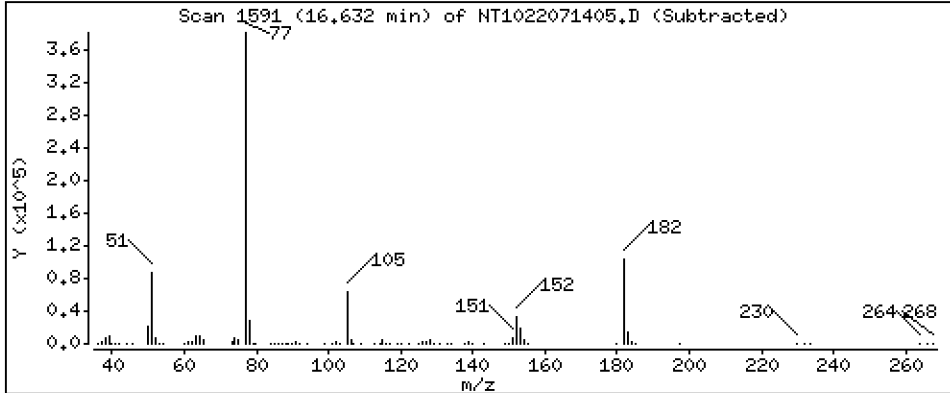
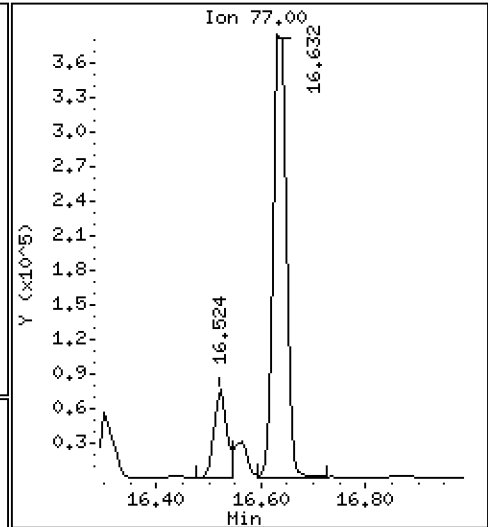
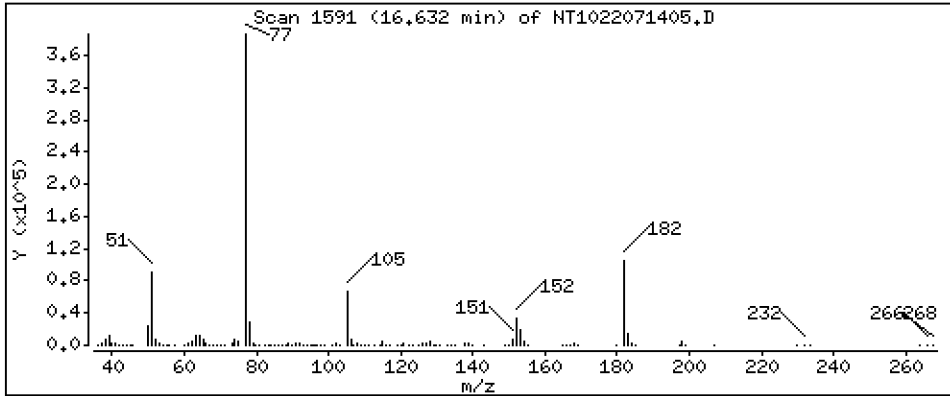
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,515 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

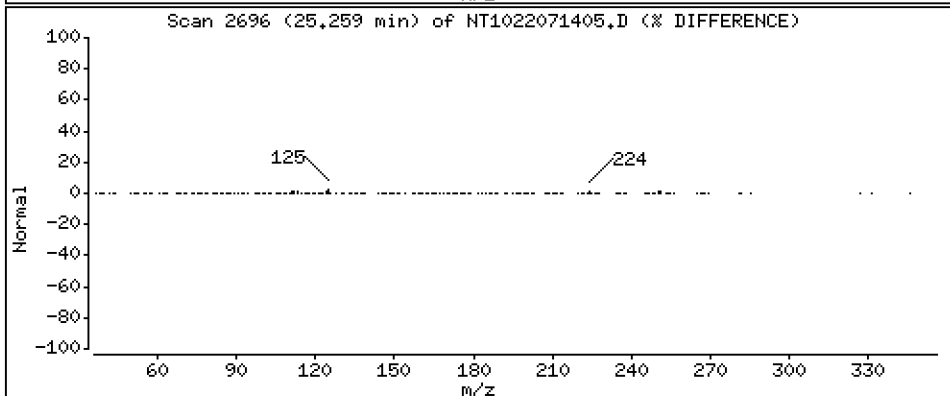
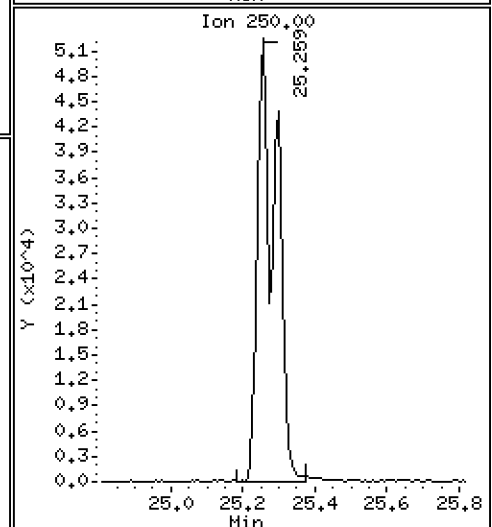
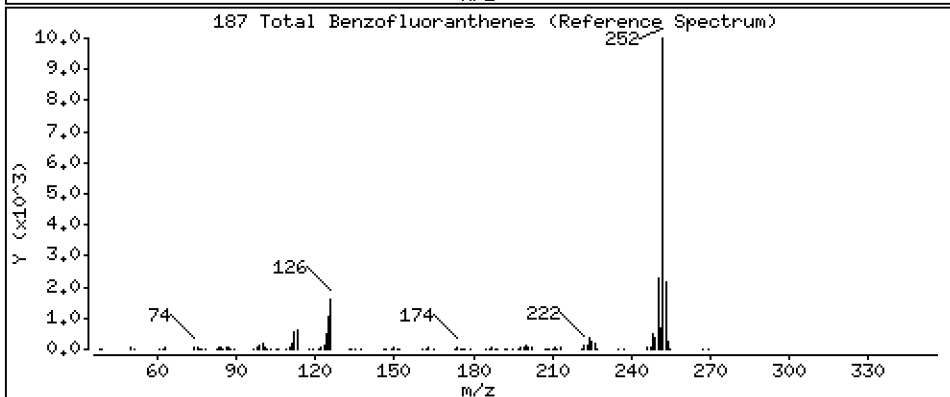
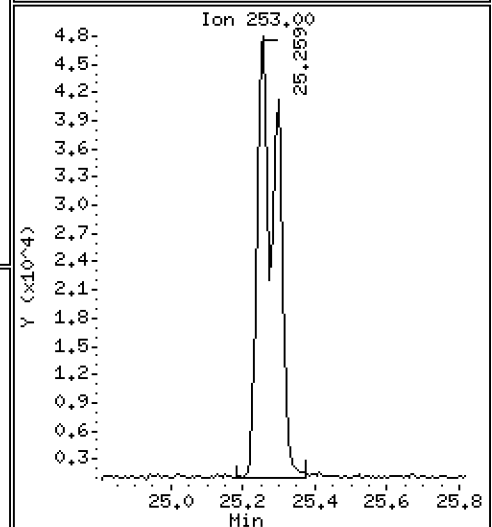
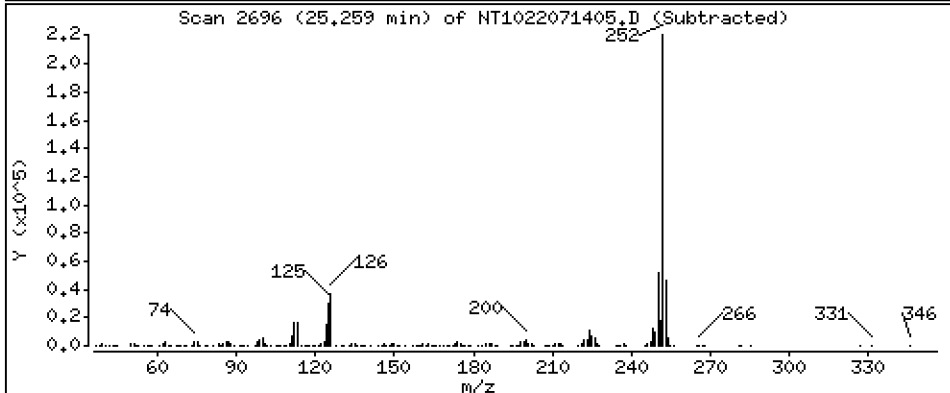
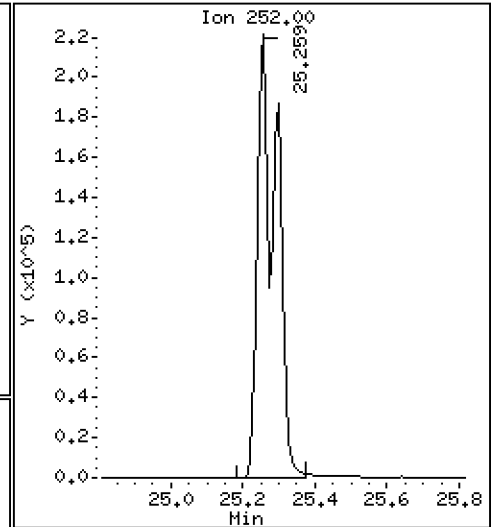
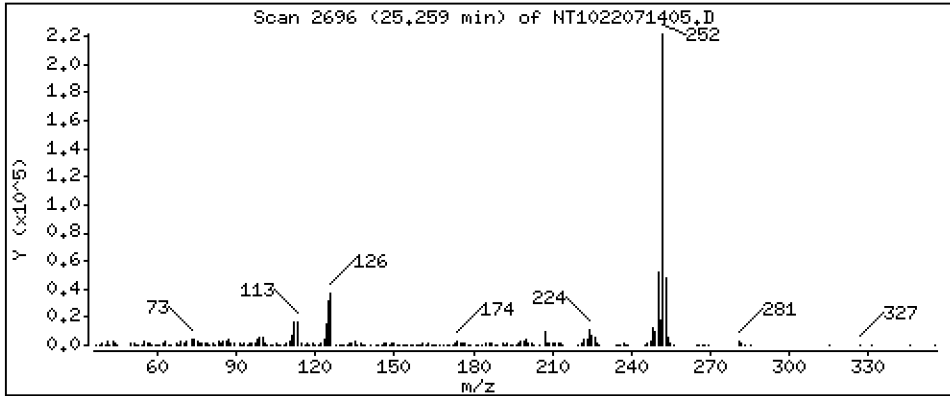
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,167 ug/mL



Date : 14-JUL-2022 16:19

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BS1

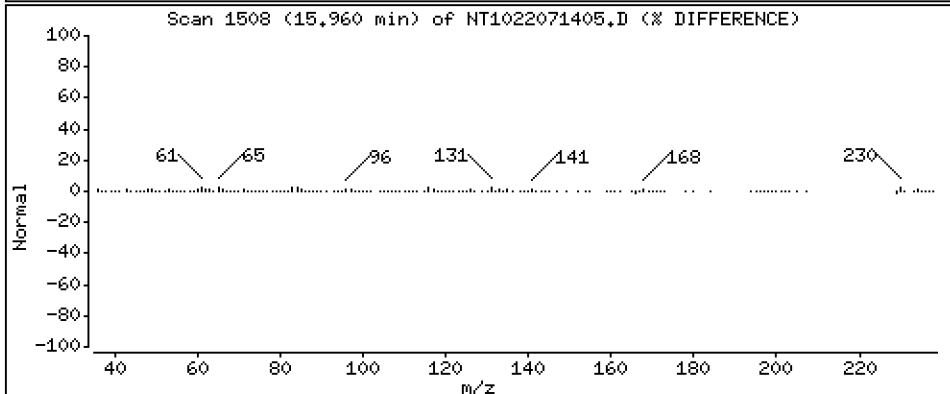
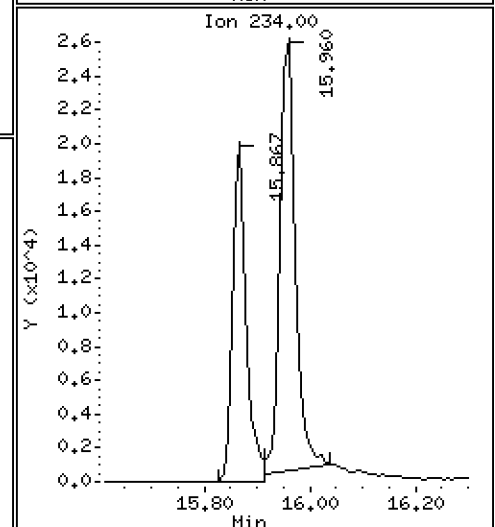
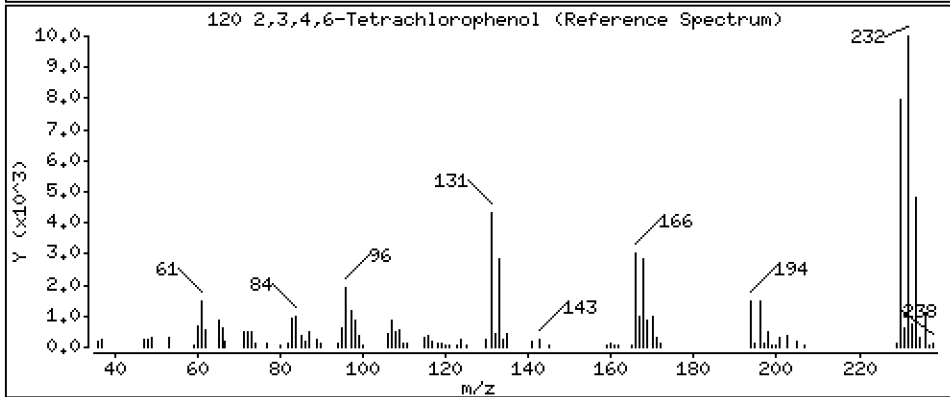
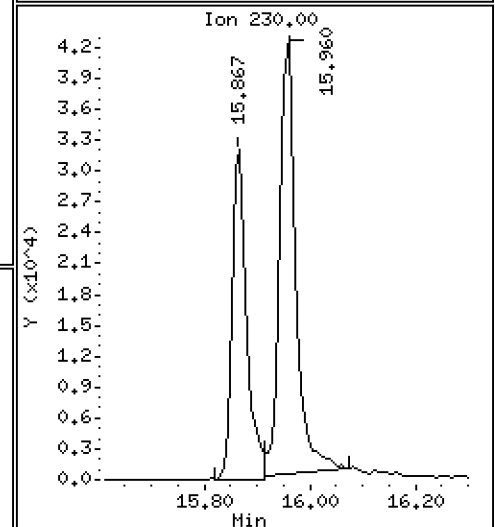
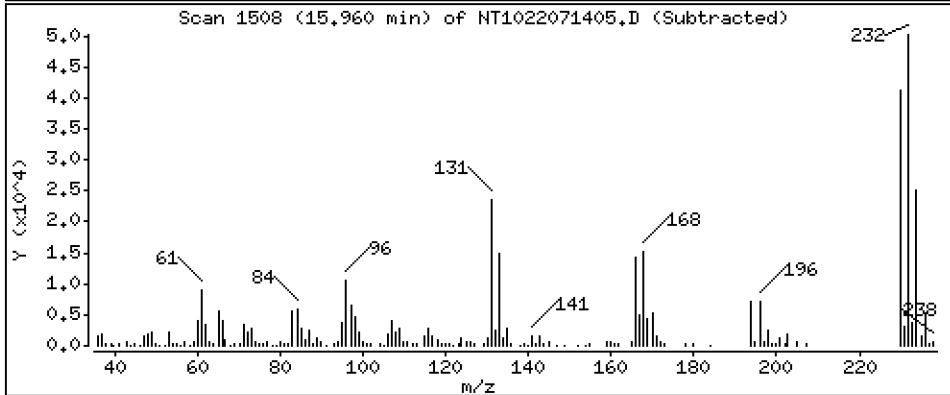
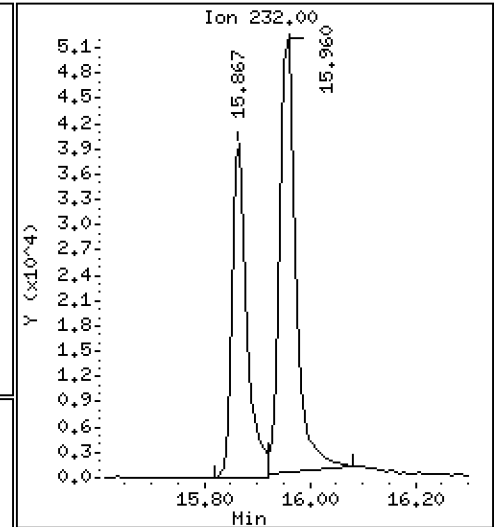
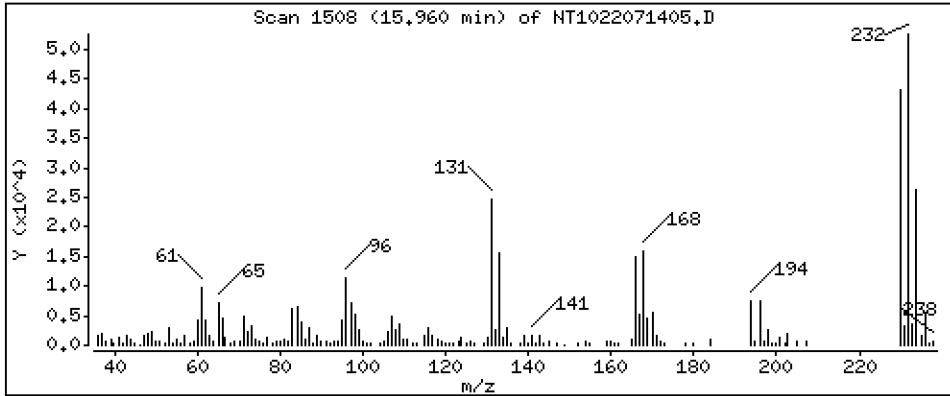
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,551 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071405.D
 Lab Smp Id: BKG0069-BS1
 Inj Date : 14-JUL-2022 16:19
 Operator : VTS
 Smp Info : BKG0069-BS1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 19-Jul-2022 13:58 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.906	6.906	(0.759)	454038	6.67878	6.679
\$ 2 Phenol-d5	99		8.490	8.490	(0.933)	646609	6.41028	6.410
3 Phenol	94		8.513	8.513	(0.935)	309209	3.51786	3.518
\$ 5 2-Chlorophenol-d4	132		8.752	8.753	(0.962)	507143	7.32129	7.321
4 Bis(2-Chloroethyl)ether	93		8.644	8.645	(0.950)	268834	4.24978	4.250
6 2-Chlorophenol	128		8.776	8.776	(0.964)	263975	3.76706	3.767
7 1,3-Dichlorobenzene	146		9.039	9.039	(0.993)	286410	3.77889	3.779
* 8 1,4-Dichlorobenzene-d4	152		9.101	9.101	(1.000)	186174	4.00000	
9 1,4-Dichlorobenzene	146		9.132	9.132	(1.003)	239250	4.00461	4.005
\$ 10 1,2-Dichlorobenzene-d4	152		9.458	9.466	(1.039)	211706	4.95984	4.960
12 1,2-Dichlorobenzene	146		9.489	9.489	(1.043)	251473	3.96502	3.965
11 Benzyl alcohol	108		9.380	9.380	(1.031)	152988	4.36927	4.369
14 2,2'-oxybis(1-Chloropropane)	121		9.667	9.668	(1.062)	83874	5.59203	5.592
13 2-Methylphenol	108		9.613	9.613	(1.056)	196220	3.62071	3.621
17 Hexachloroethane	117		10.071	10.079	(1.107)	111215	4.17600	4.176
16 N-Nitroso-di-n-propylamine	70		9.924	9.924	(1.090)	140750	3.73440	3.734
15 4-Methylphenol	108		9.893	9.885	(1.087)	220742	3.81139	3.811
\$ 18 Nitrobenzene-d5	82		10.195	10.195	(0.880)	335070	5.19684	5.197
19 Nitrobenzene	77		10.226	10.227	(0.882)	275132	4.23377	4.234
20 Isophorone	82		10.676	10.677	(0.921)	574232	6.10831	6.108
21 2-Nitrophenol	139		10.859	10.859	(0.937)	172877	4.21173	4.212
22 2,4-Dimethylphenol	107		10.919	10.927	(0.942)	527392	10.5768	10.58
23 Bis(2-Chloroethoxy)methane	93		11.105	11.106	(0.958)	266068	4.71082	4.711
24 Benzoic acid	105		11.156	11.165	(0.963)	572251	21.4015	21.40
25 2,4-Dichlorophenol	162		11.326	11.335	(0.977)	632961	12.4900	12.49
26 1,2,4-Trichlorobenzene	180		11.496	11.504	(0.992)	199809	3.67322	3.673
* 27 Naphthalene-d8	136		11.588	11.589	(1.000)	605939	4.00000	
28 Naphthalene	128		11.627	11.627	(1.003)	609918	3.93296	3.933
29 4-Chloroaniline	127		11.766	11.766	(1.015)	729496	10.6534	10.65
30 Hexachlorobutadiene	225		11.982	11.990	(1.034)	113475	4.37279	4.373
31 4-Chloro-3-methylphenol	107		12.748	12.749	(1.100)	870953	14.0525	14.05
32 2-Methylnaphthalene	142		13.027	13.027	(1.124)	662257	4.29685	4.297
33 Hexachlorocyclopentadiene	237		13.491	13.492	(0.887)	77435	3.83685	3.837

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.662	13.662	(0.898)	598150	15.1834	15.18	
35 2,4,5-Trichlorophenol	196		13.747	13.755	(0.904)	625974	13.3949	13.39	
§ 36 2-Fluorobiphenyl	172		13.809	13.809	(0.908)	844945	5.38666	5.387	
37 2-Chloronaphthalene	162		14.018	14.026	(0.922)	622089	4.49879	4.499	
38 2-Nitroaniline	65		14.288	14.289	(0.939)	607003	16.4106	16.41	
39 Dimethylphthalate	163		14.706	14.714	(0.967)	548754	4.51436	4.514	
40 Acenaphthylene	152		14.892	14.900	(0.979)	711466	3.51129	3.511	
41 2,6-Dinitrotoluene	165		14.854	14.862	(0.977)	433360	15.3501	15.35	
* 42 Acenaphthene-d10	164		15.209	15.210	(1.000)	346628	4.00000		
43 3-Nitroaniline	138		15.148	15.156	(0.996)	449493	13.5248	13.52	
44 Acenaphthene	153		15.279	15.279	(1.005)	428986	4.25544	4.255	
45 2,4-Dinitrophenol	184		15.372	15.372	(1.011)	323820	24.3694	24.37	
46 Dibenzofuran	168		15.604	15.612	(1.026)	730789	4.56148	4.561	
47 4-Nitrophenol	109		15.557	15.565	(1.023)	120026	10.8059	10.81 (M)	
48 2,4-Dinitrotoluene	165		15.673	15.681	(1.030)	626707	16.6090	16.61	
50 Diethylphthalate	149		16.168	16.176	(1.063)	537690	5.15642	5.156	
49 Fluorene	166		16.323	16.323	(1.073)	422202	2.20549	2.205	
51 4-Chlorophenyl-phenylether	204		16.299	16.323	(1.072)	147952	1.75994	1.760	
52 4-Nitroaniline	138		16.431	16.439	(1.080)	529711	15.9133	15.91	
53 4,6-Dinitro-2-methylphenol	198		16.523	16.531	(0.905)	635311	27.7632	27.76	
54 N-Nitrosodiphenylamine	169		16.562	16.570	(0.907)	397972	4.30873	4.309	
§ 55 2,4,6-Tribromophenol	330		16.862	16.870	(1.109)	133389	8.43225	8.432	
56 4-Bromophenyl-phenylether	248		17.317	17.318	(0.948)	210635	4.92207	4.922	
57 Hexachlorobenzene	284		17.634	17.642	(0.966)	172889	4.39353	4.394	
58 Pentachlorophenol	266		18.014	18.022	(0.986)	84753	9.23517	9.235	
* 59 Phenanthrene-d10	188		18.261	18.269	(1.000)	587403	4.00000		
60 Phenanthrene	178		18.308	18.316	(1.003)	693215	4.49200	4.492	
61 Anthracene	178		18.408	18.416	(1.008)	737392	4.48386	4.484	
62 Carbazole	167		18.749	18.757	(1.027)	815194	5.37308	5.373	
63 Di-n-butylphthalate	149		19.530	19.546	(1.069)	1259146	5.33114	5.331	
64 Fluoranthene	202		20.714	20.722	(0.887)	1160034	4.57923	4.579	
65 Pyrene	202		21.139	21.147	(0.905)	1155159	5.16430	5.164	
§ 66 Terphenyl-d14	244		21.426	21.434	(0.917)	728790	6.00480	6.005	
67 Butylbenzylphthalate	149		22.355	22.363	(0.957)	367196	5.22630	5.226	
68 Benzo(a)anthracene	228		23.323	23.331	(0.999)	631212	4.28309	4.283	
* 69 Chrysene-d12	240		23.354	23.362	(1.000)	347788	4.00000		
70 3,3'-Dichlorobenzidine	252		23.284	23.292	(0.997)	575599	11.9859	11.99	
71 Chrysene	228		23.392	23.408	(1.002)	475833	4.64255	4.643	
72 bis(2-Ethylhexyl)phthalate	149		23.392	23.400	(0.959)	412657	5.91458	5.915	
* 134 Di-n-octylphthalate-d4	153		24.399	24.407	(1.000)	631217	4.00000		
73 Di-n-octylphthalate	149		24.407	24.422	(1.000)	738606	5.14818	5.148	
74 Benzo(b)fluoranthene	252		25.258	25.266	(0.970)	432270	4.59026	4.590	
75 Benzo(k)fluoranthene	252		25.297	25.313	(0.971)	415055	4.58353	4.584	
76 Benzo(a)pyrene	252		25.932	25.948	(0.996)	338265	4.38883	4.389	
* 77 Perylene-d12	264		26.048	26.064	(1.000)	207937	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.822	28.845	(1.106)	323004	3.92505	3.925	
79 Dibenzo(a,h)anthracene	278		28.829	28.853	(1.107)	257346	4.08498	4.085	
80 Benzo(g,h,i)perylene	276		29.645	29.661	(1.138)	274962	4.17988	4.180	
90 N-Nitrosodimethylamine	74		4.728	4.720	(0.519)	411980	9.26224	9.262	
91 Aniline	93		8.559	8.560	(0.941)	546679	6.21862	6.219	
93 Benzidine	184		Compound Not Detected.						
103 Pyridine	79		4.766	4.743	(0.524)	34133	0.27071	0.2707	
105 1-methylnaphthalene	142		13.251	13.252	(1.144)	638573	4.21716	4.217	
111 Azobenzene (1,2-DP-Hydrazine)	77		16.631	16.639	(1.093)	625043	4.51498	4.515	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.258	25.313	(0.970)	804924	9.16724	9.167
120 2,3,4,6-Tetrachlorophenol	232	15.959	15.959	(1.049)	107708	3.55072	3.551

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071405.D Calibration Time: 14:12
 Lab Smp Id: BKG0069-BS1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	186174	-4.93
27 Naphthalene-d8	626038	313019	1252076	605939	-3.21
42 Acenaphthene-d10	366612	183306	733224	346628	-5.45
59 Phenanthrene-d10	635137	317569	1270274	587403	-7.52
69 Chrysene-d12	270778	135389	541556	347788	28.44
134 Di-n-octylphthala	507031	253516	1014062	631217	24.49
77 Perylene-d12	170107	85054	340214	207937	22.24

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.10	-0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.59	-0.00
42 Acenaphthene-d10	15.21	14.71	15.71	15.21	-0.00
59 Phenanthrene-d10	18.27	17.77	18.77	18.26	-0.04
69 Chrysene-d12	23.36	22.86	23.86	23.35	-0.03
134 Di-n-octylphthala	24.41	23.91	24.91	24.40	-0.03
77 Perylene-d12	26.06	25.56	26.56	26.05	-0.06

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

REVIEW SUMMARY FOR FILE - NT1022071405.D

Lab ID: BKG0069-BS1
nt10.i, ABN.m, 14-JUL-2022 16:19

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022071402.D

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

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

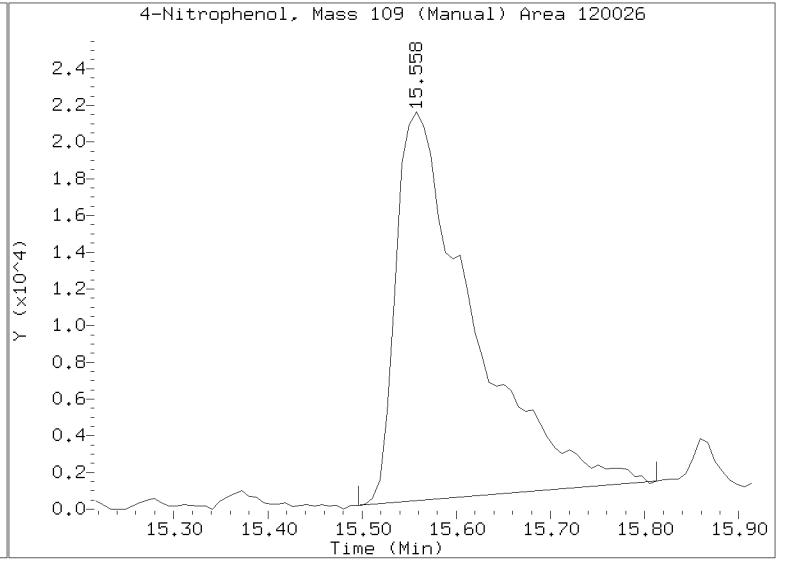
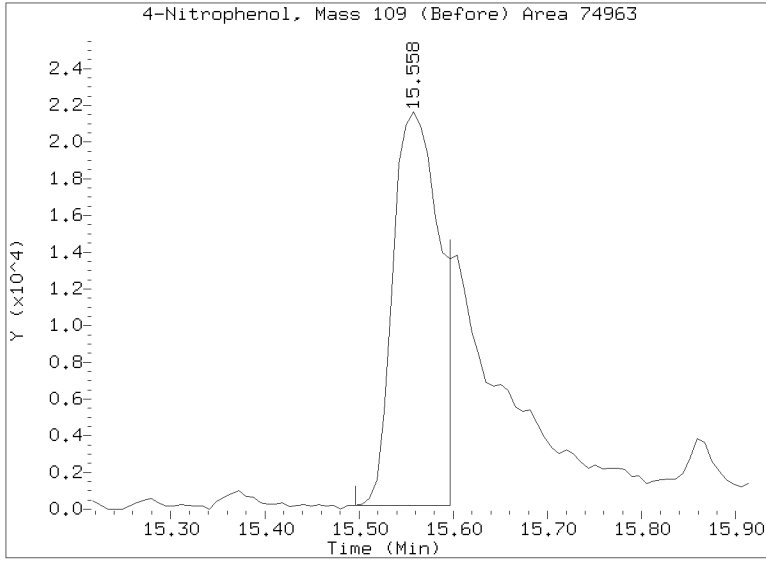
Quant Ion Manual Peak Adjustment Report

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Injection Date: 14-JUL-2022 16:19

Lab ID: BKG0069-BS1 Client ID:

Report Date: 07/25/2022 11:00



Data File: \\target\share\chem3\nt10,1\20220714,6\NT1022071406.D

Date: 14-JUL-2022 16:58

Client ID:

Sample Info: BK00069-BSM1

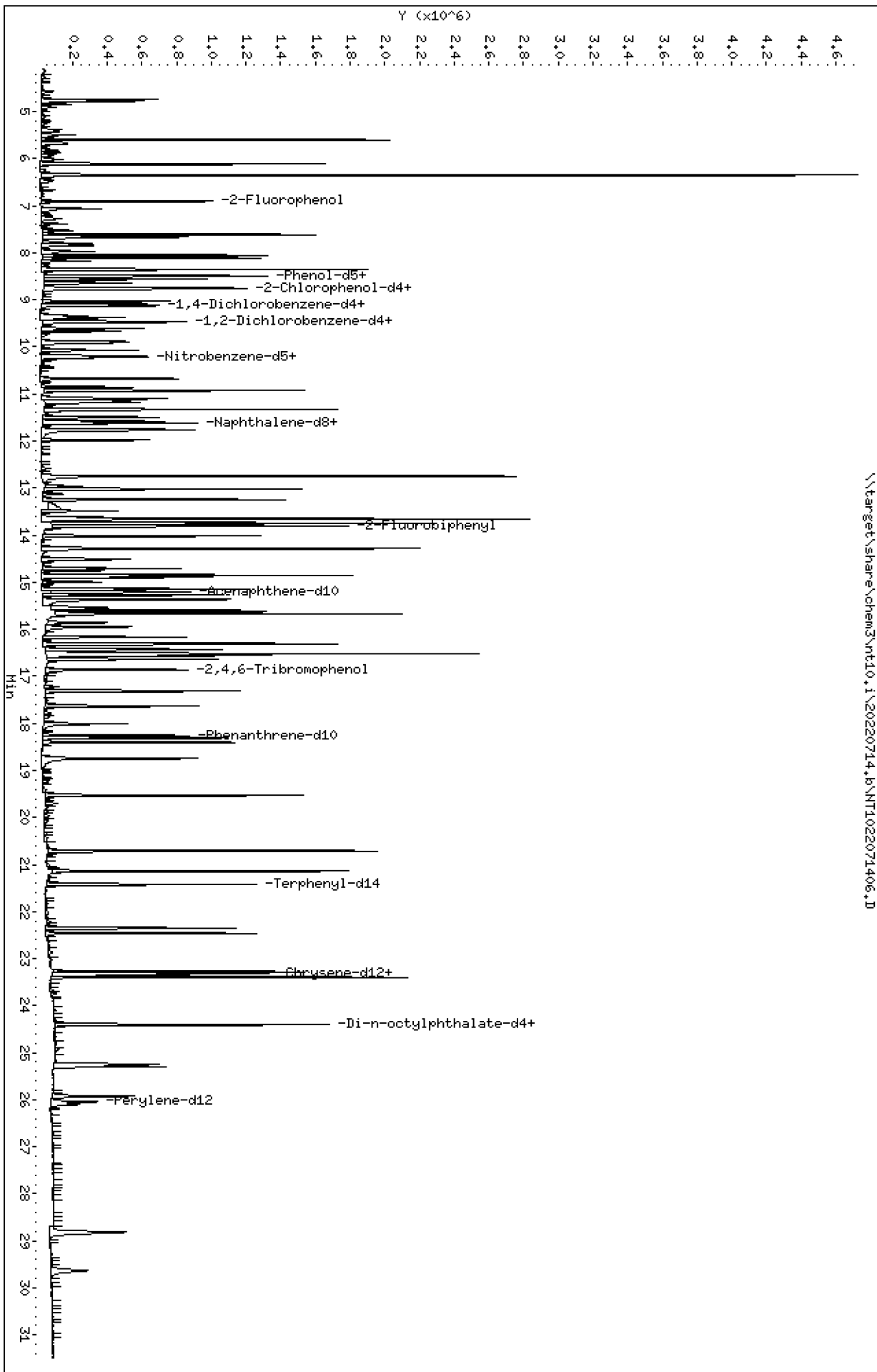
Column phase: ZB-5msi

Instrument: nt10,1

Operator: VTS

Column diameter: 0.25

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Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

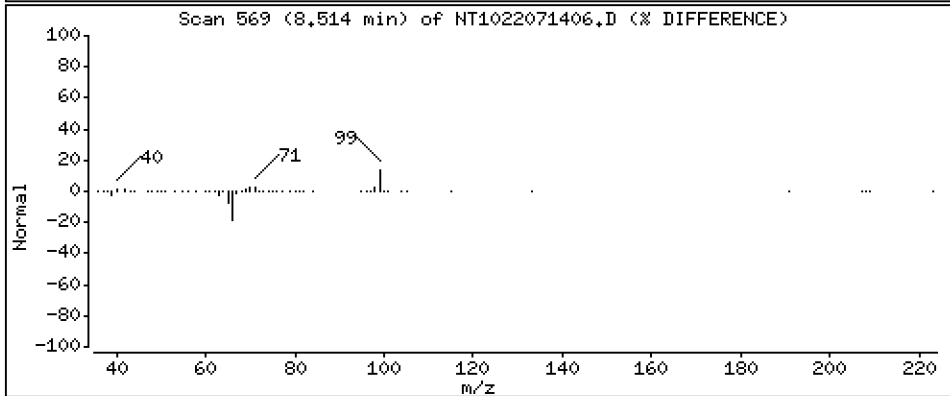
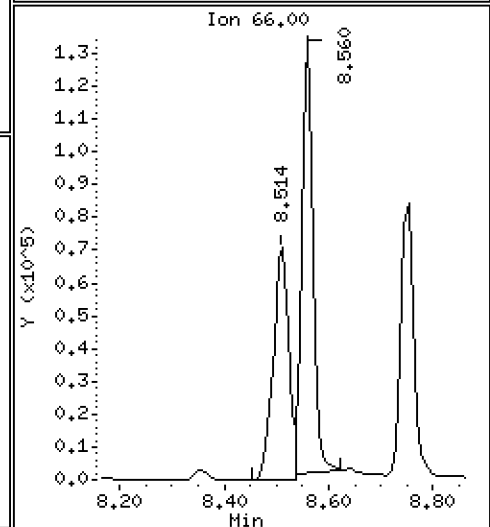
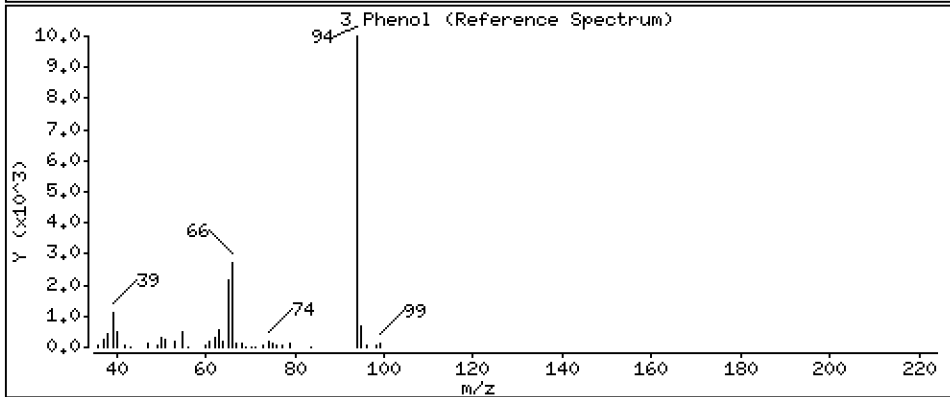
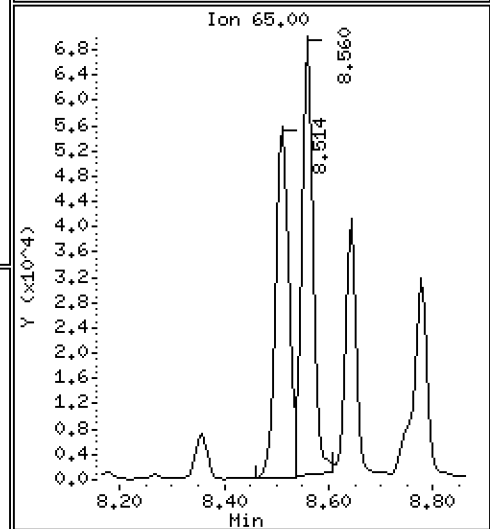
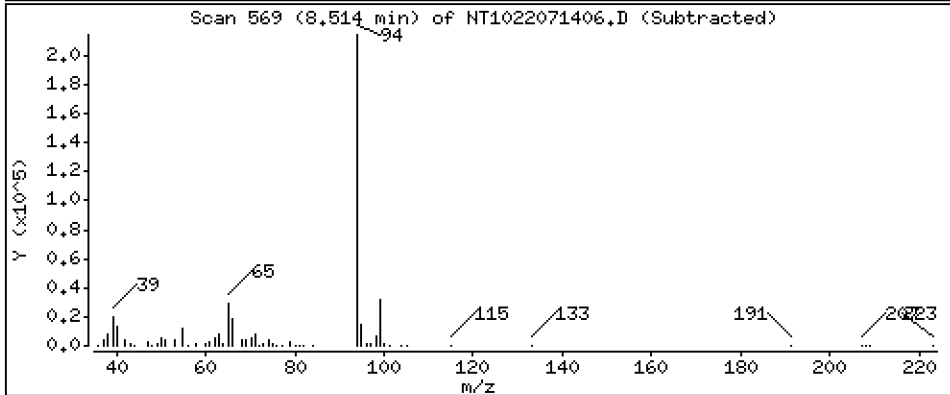
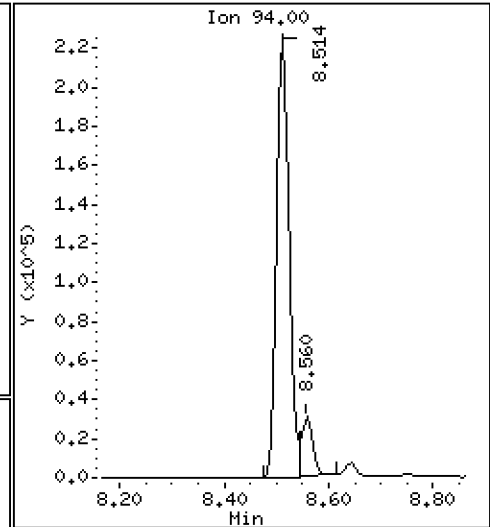
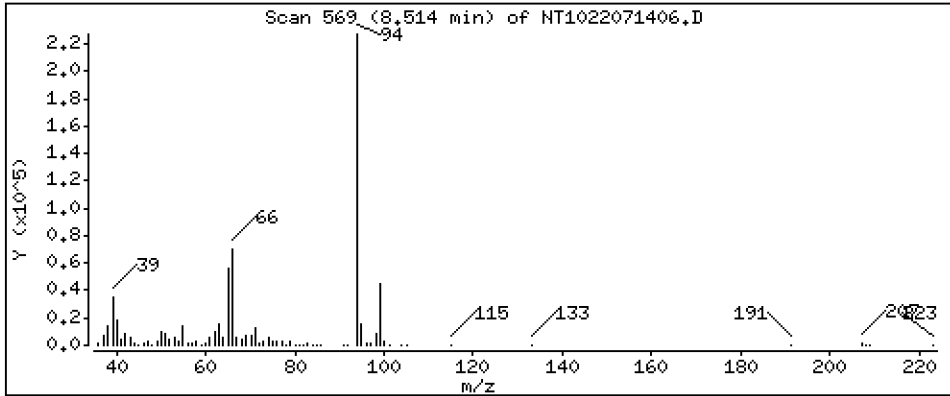
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,999 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

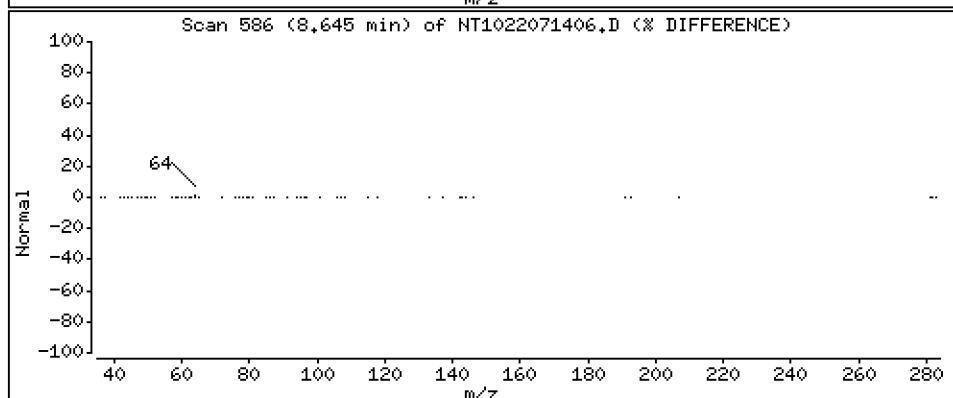
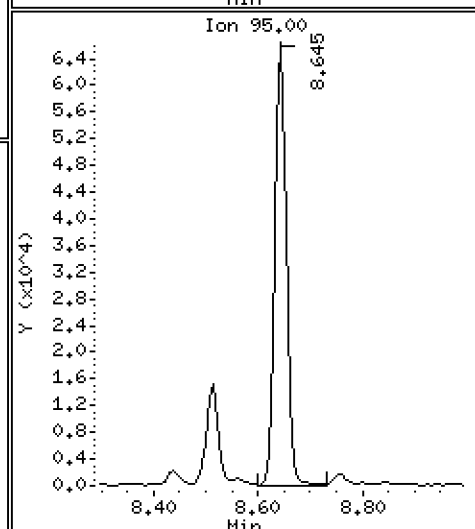
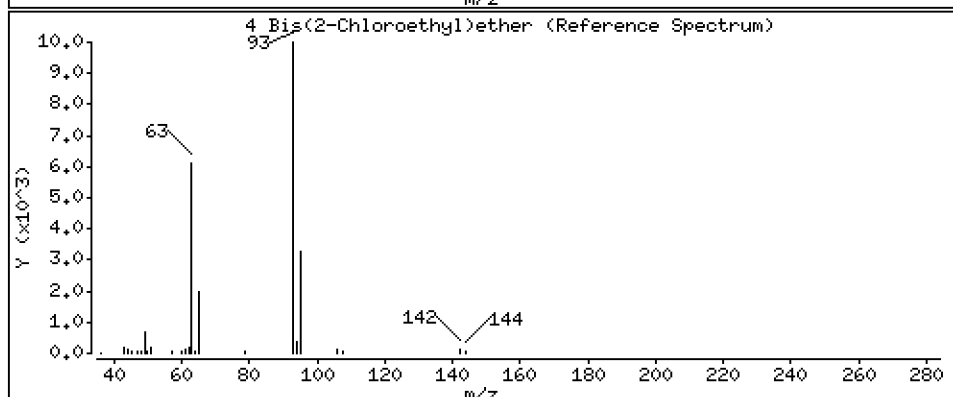
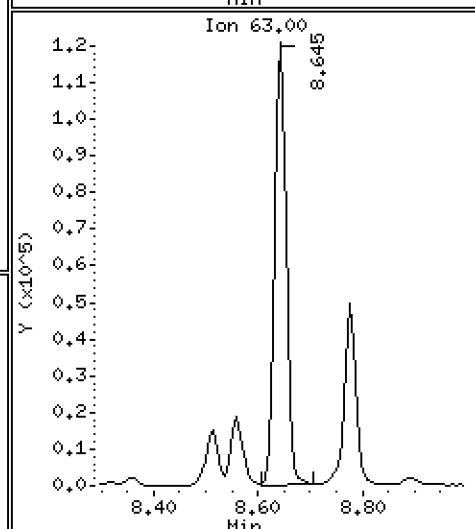
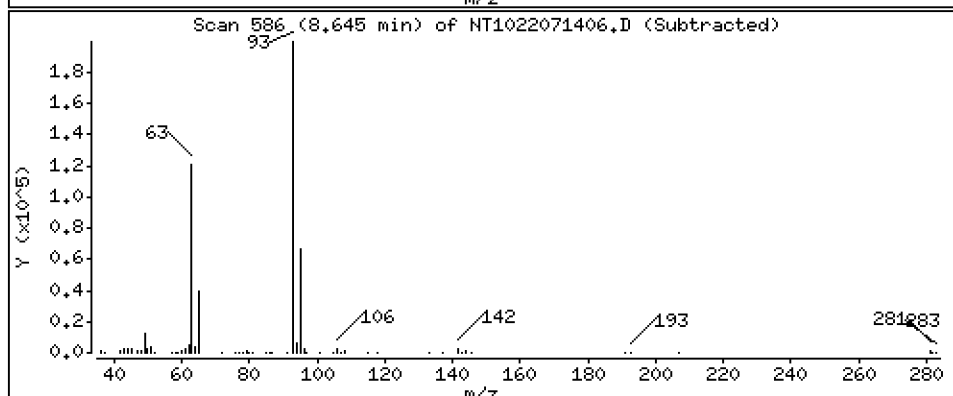
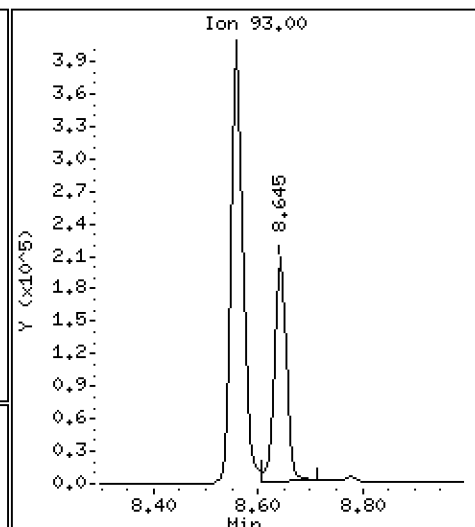
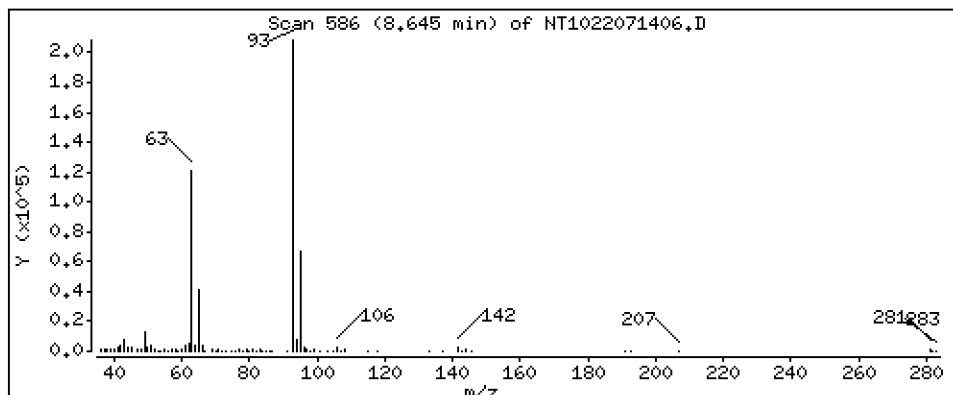
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,786 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

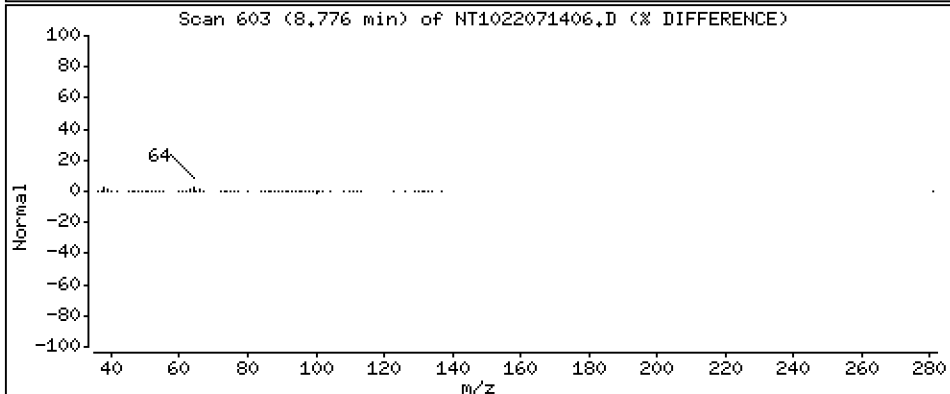
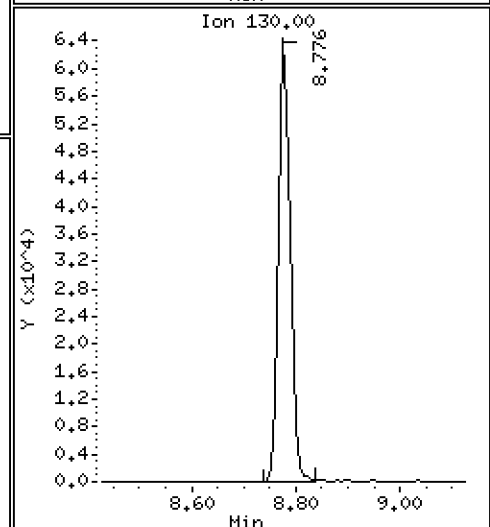
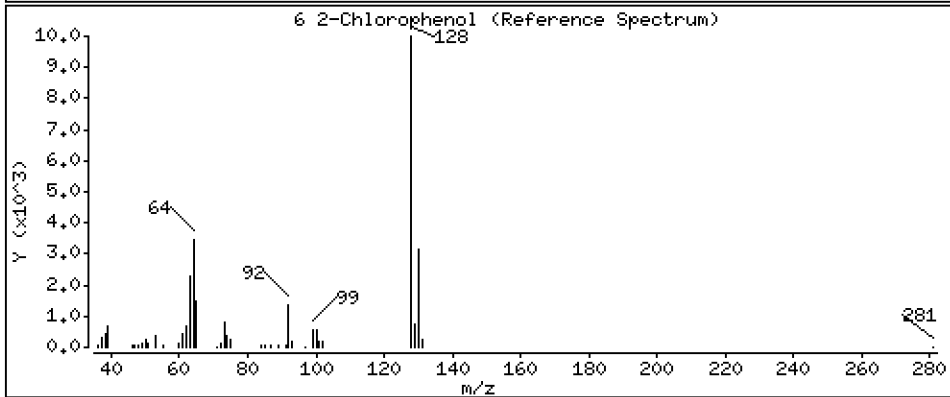
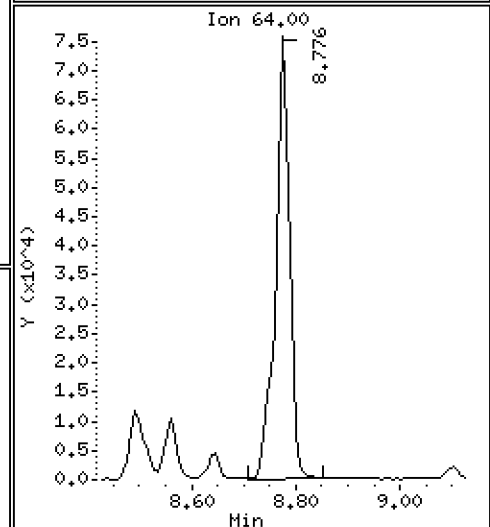
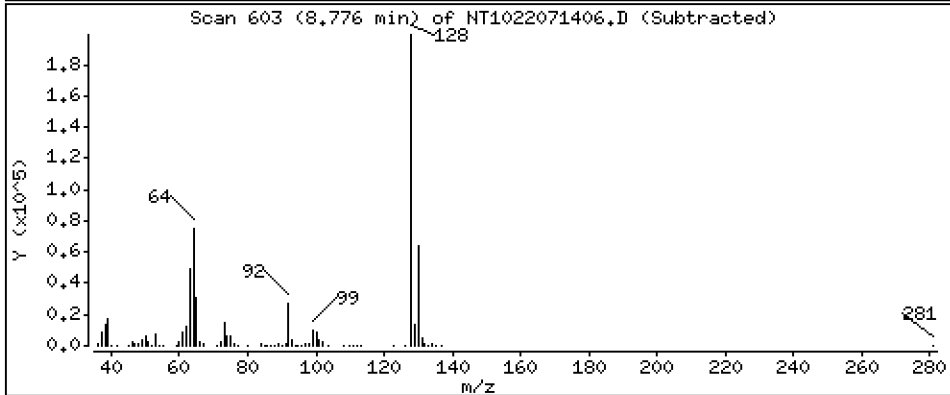
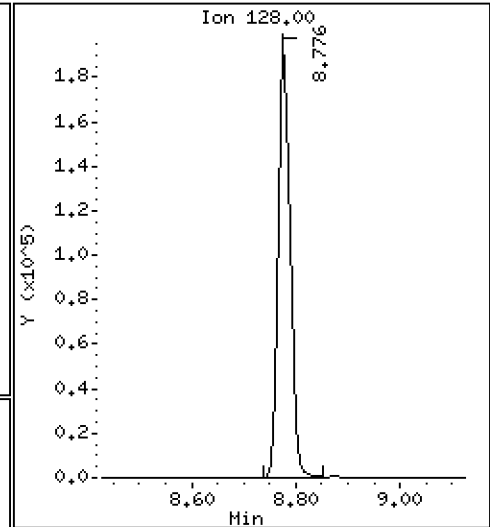
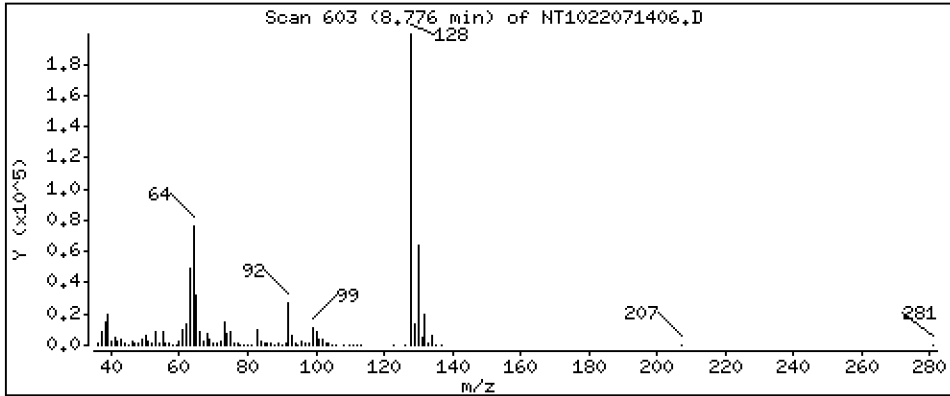
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,192 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

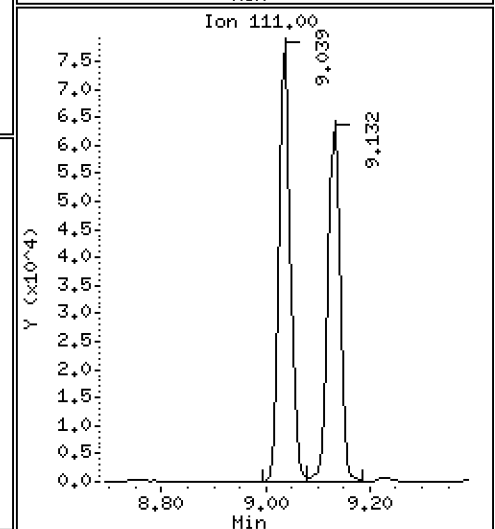
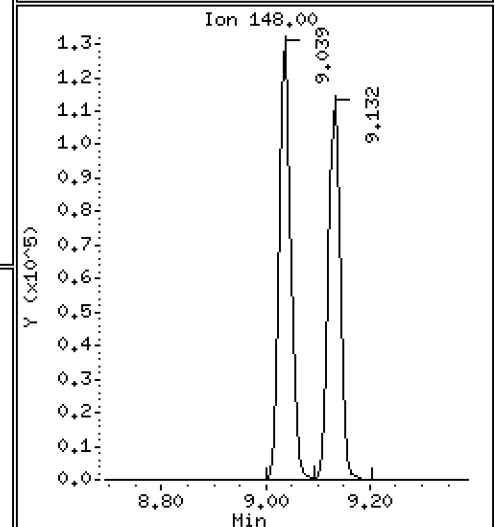
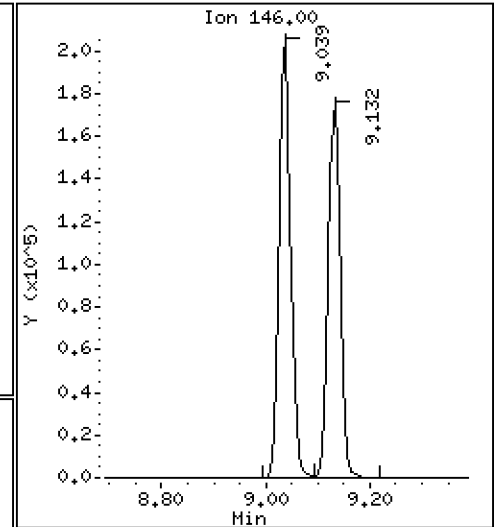
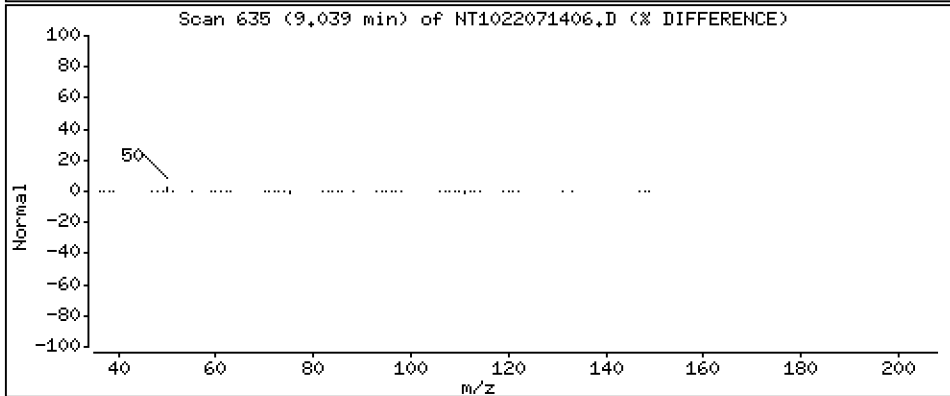
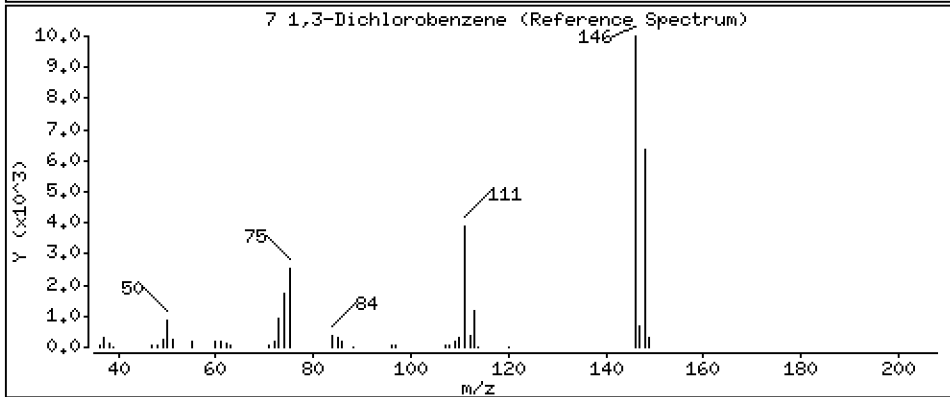
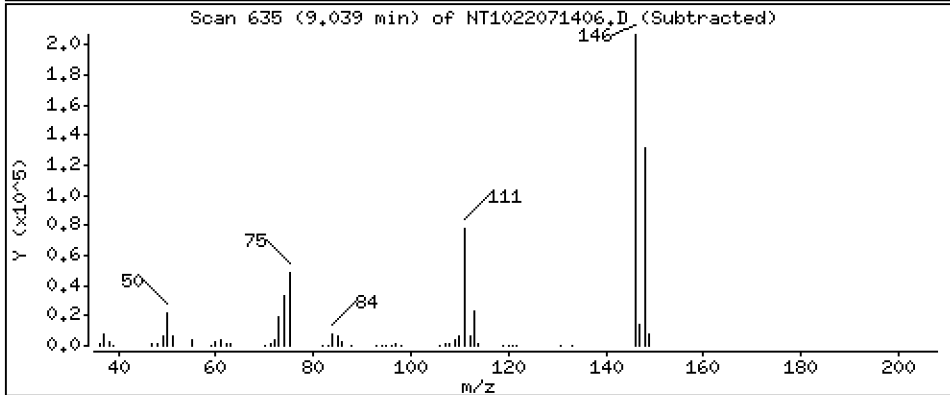
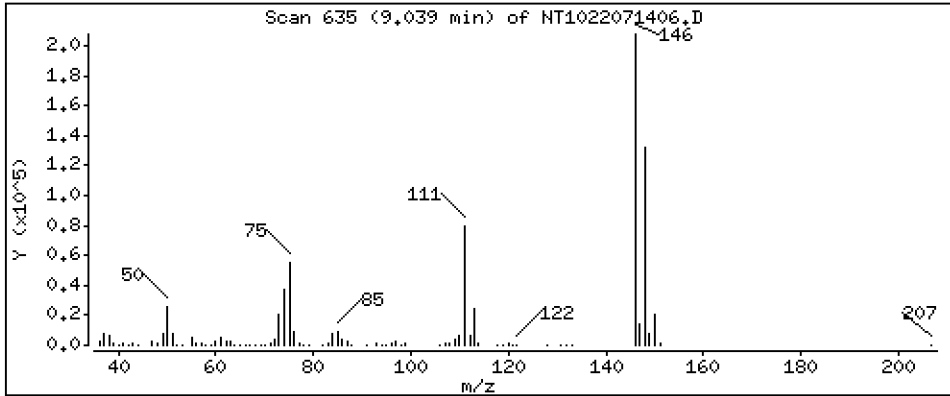
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,079 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

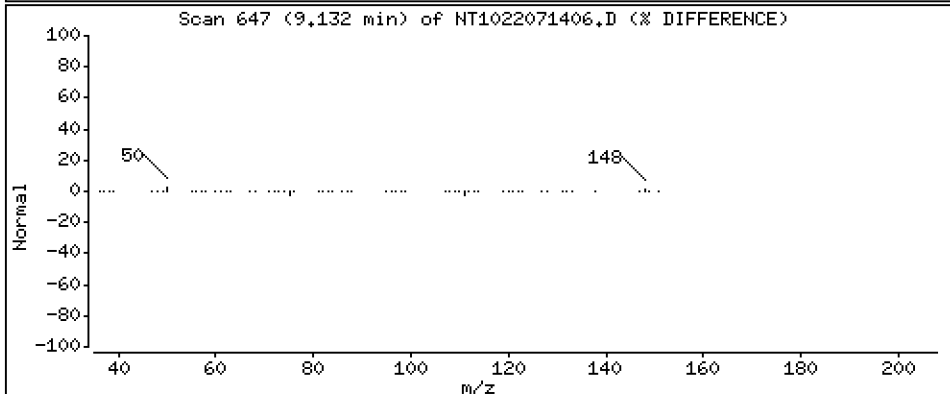
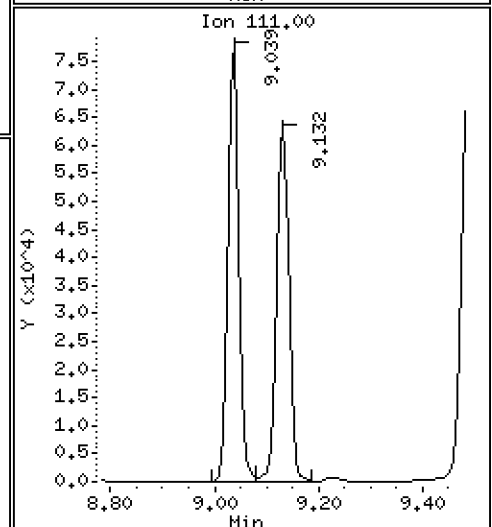
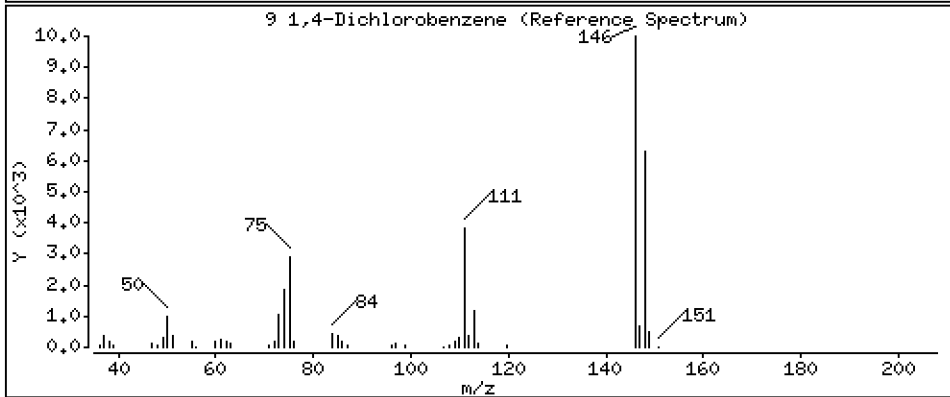
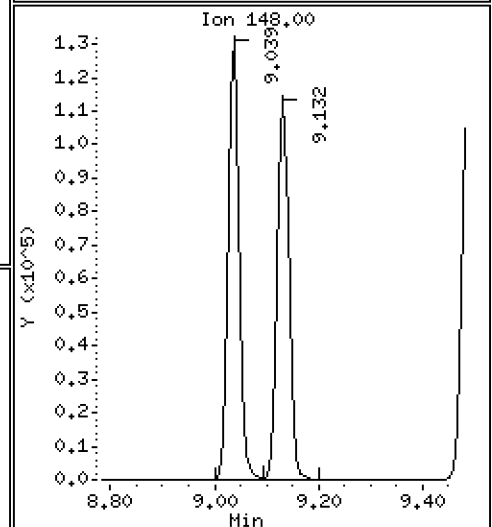
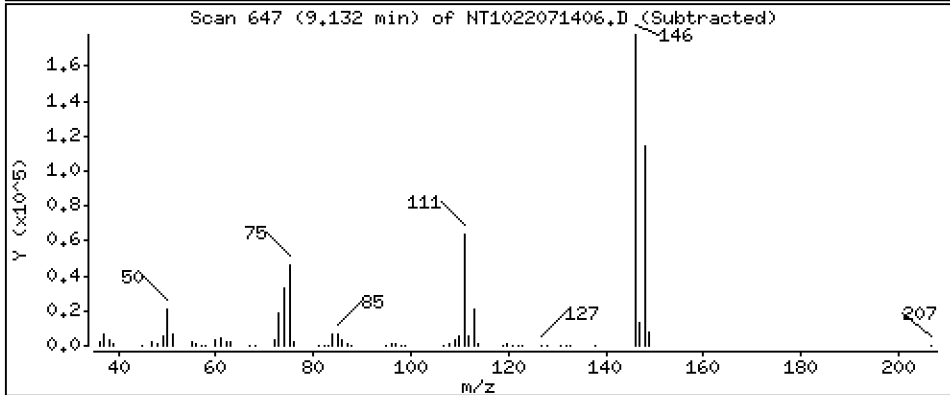
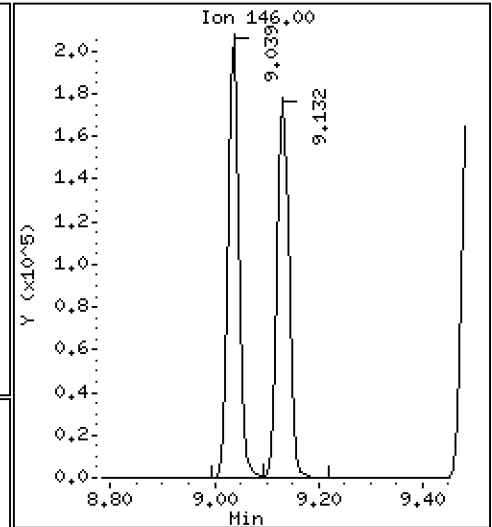
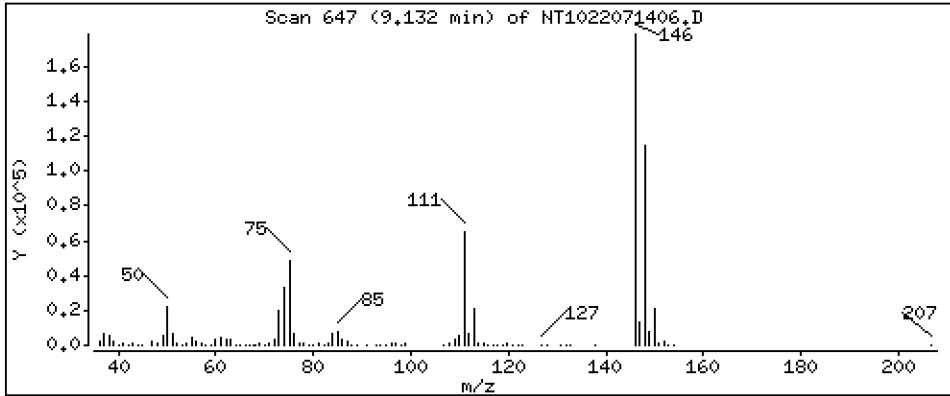
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,399 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

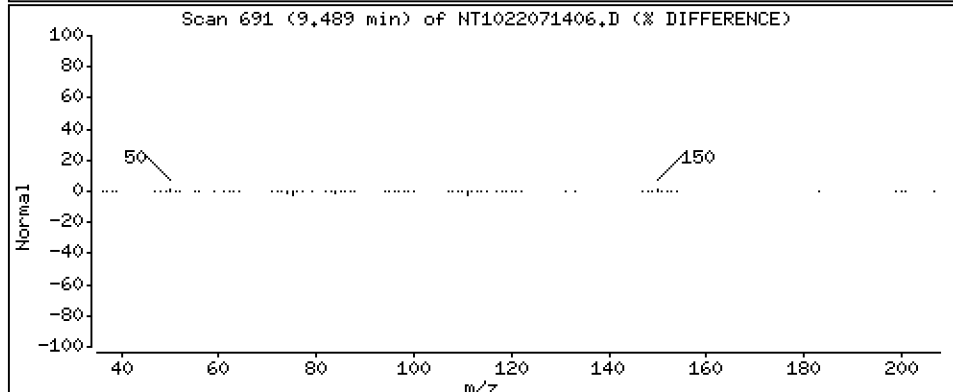
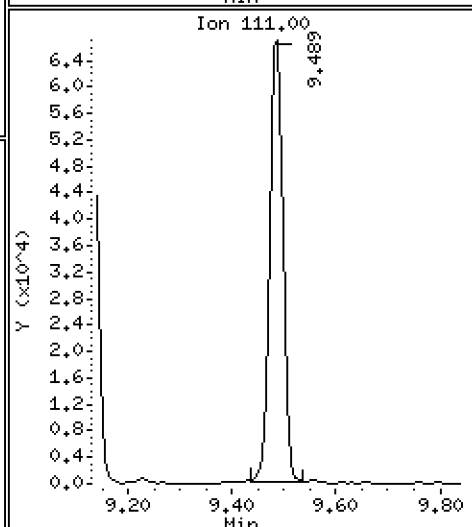
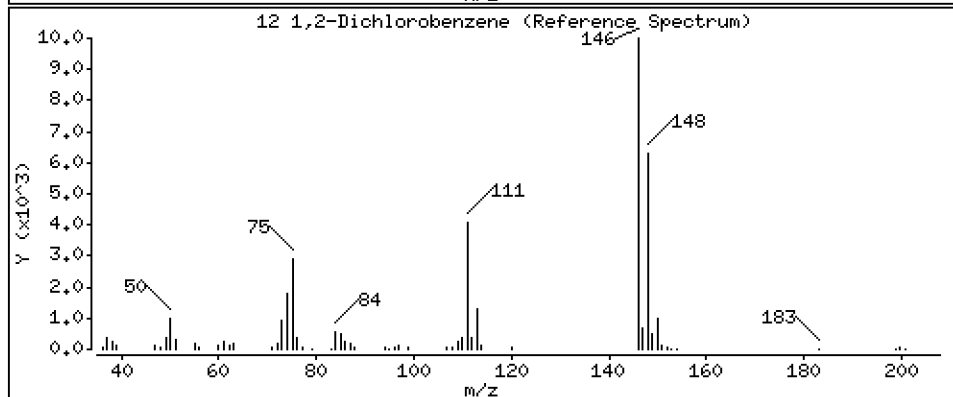
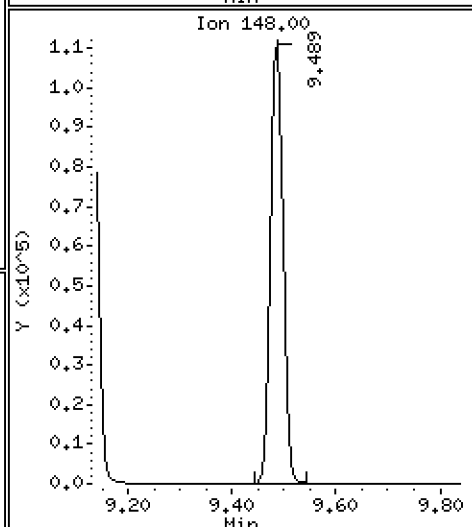
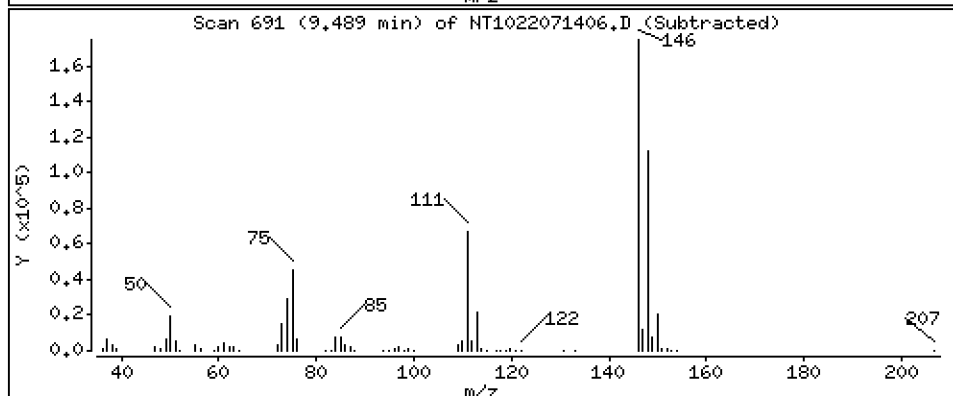
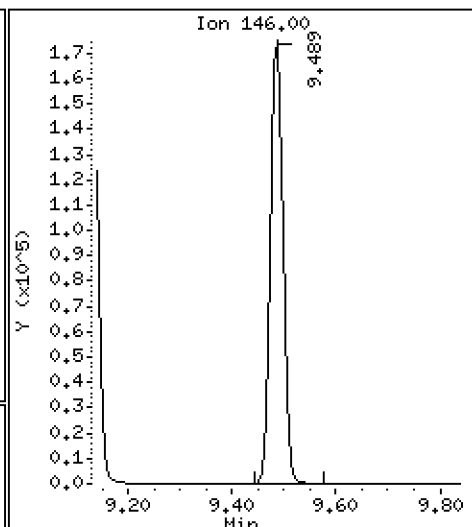
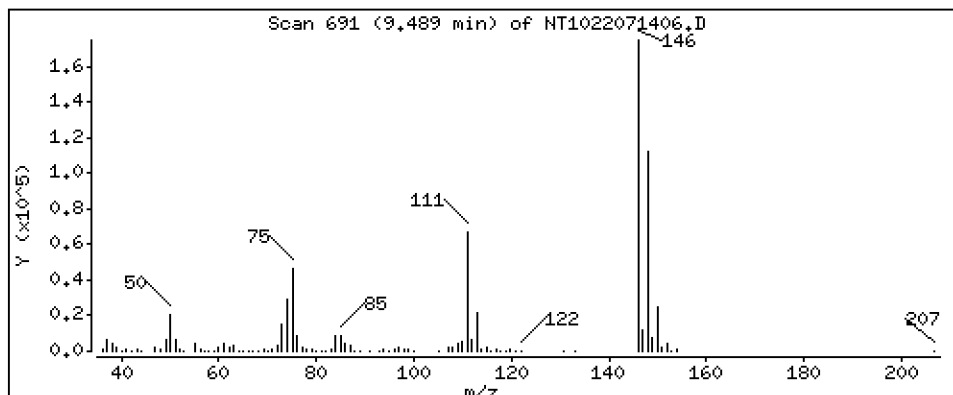
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,351 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

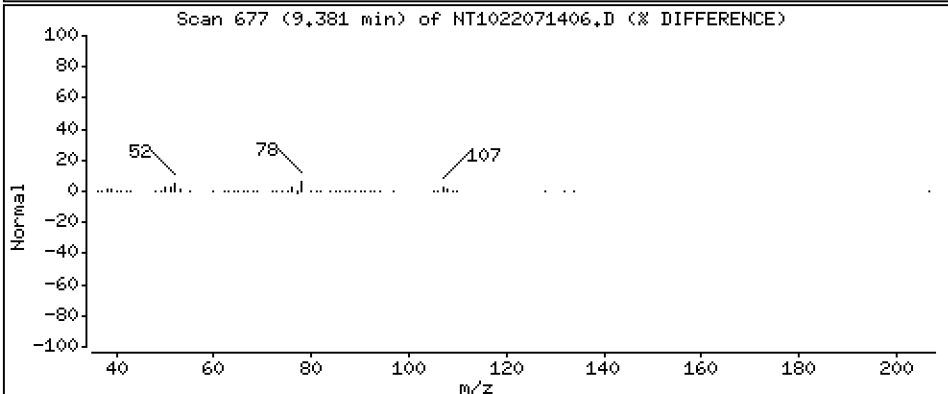
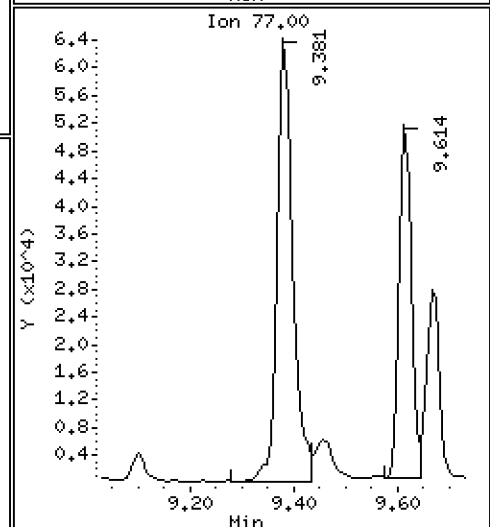
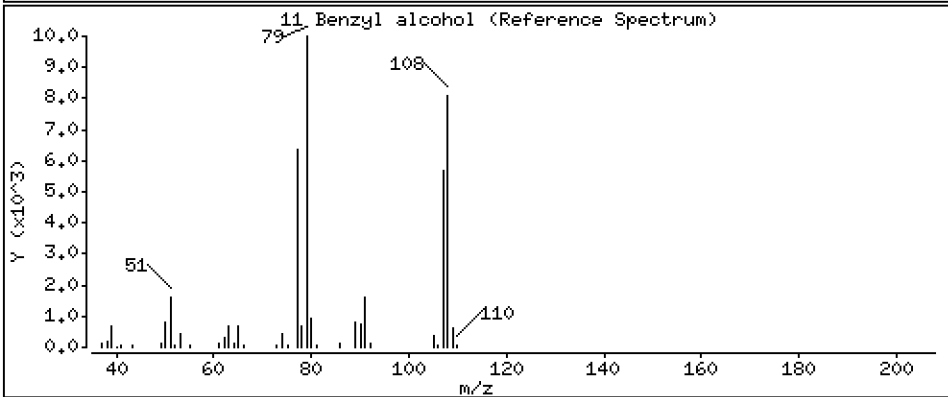
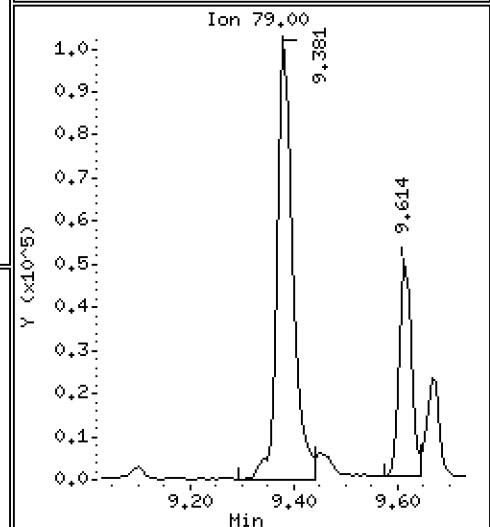
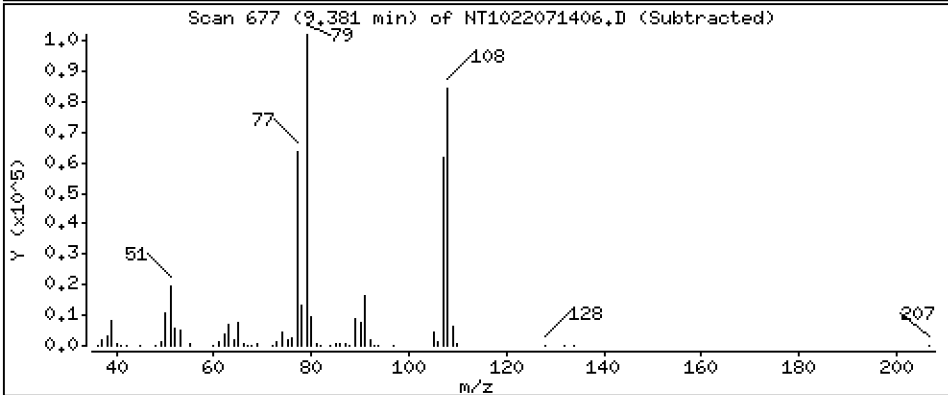
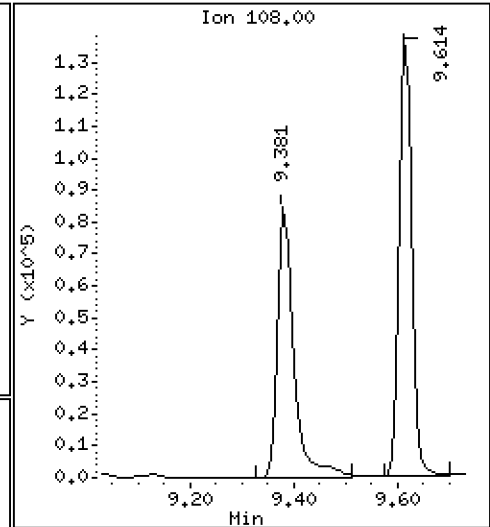
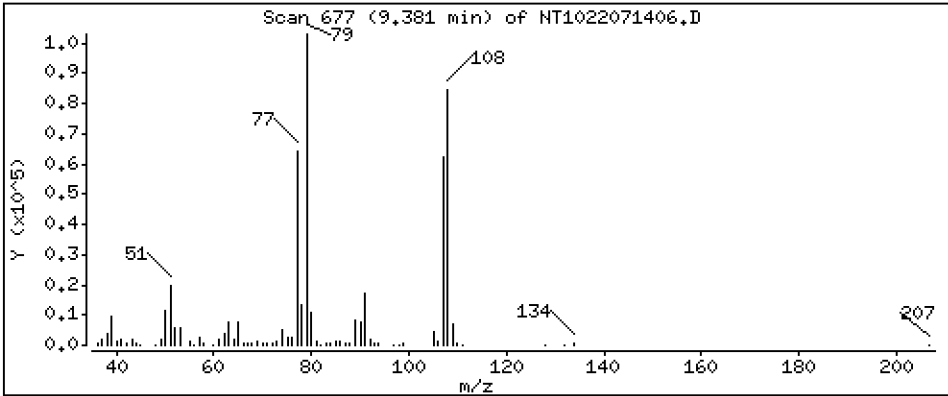
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 4,953 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

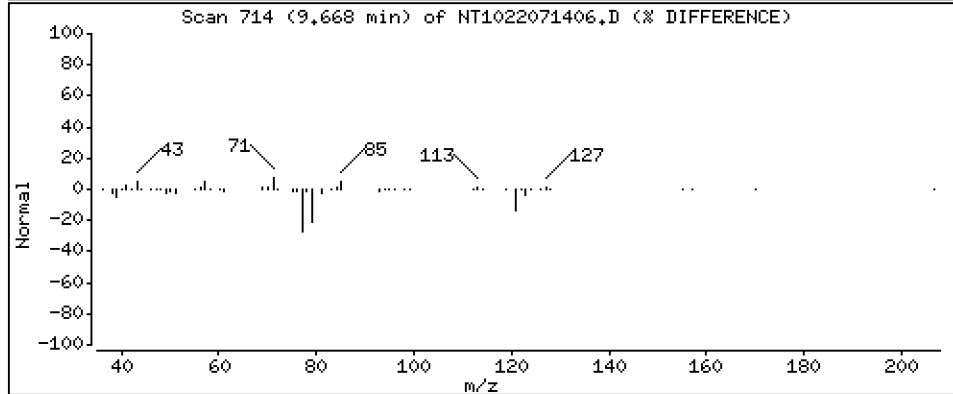
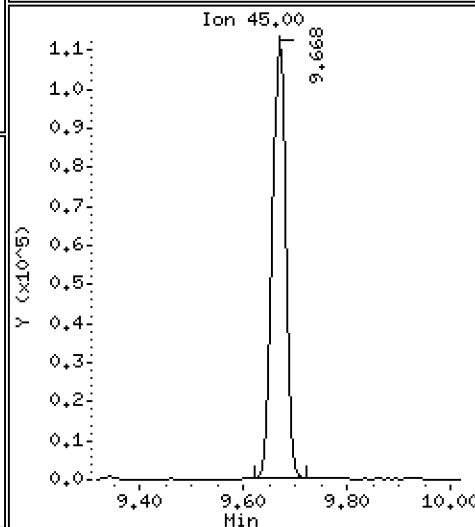
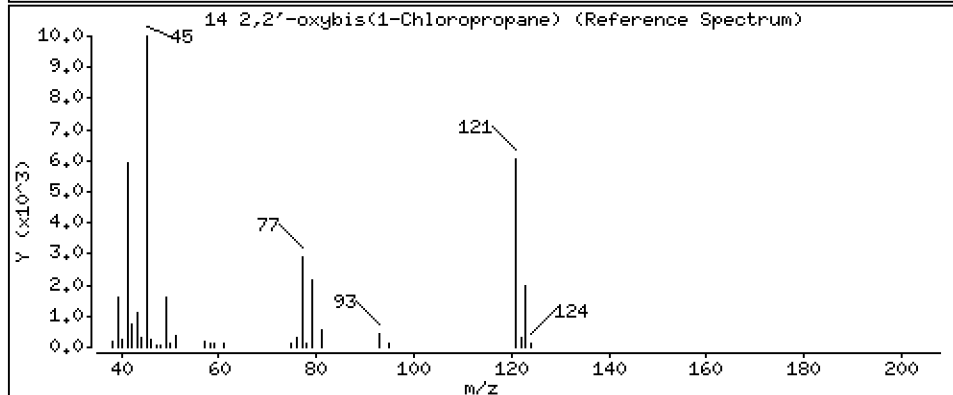
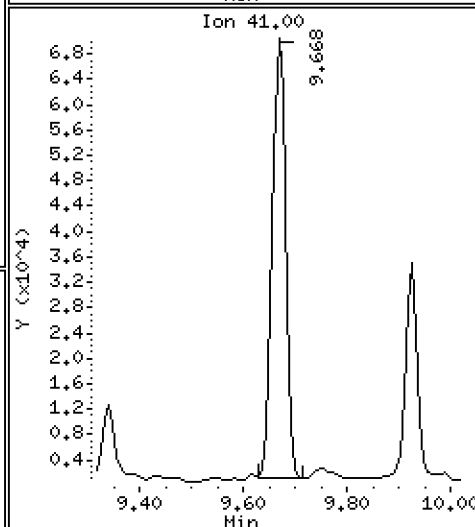
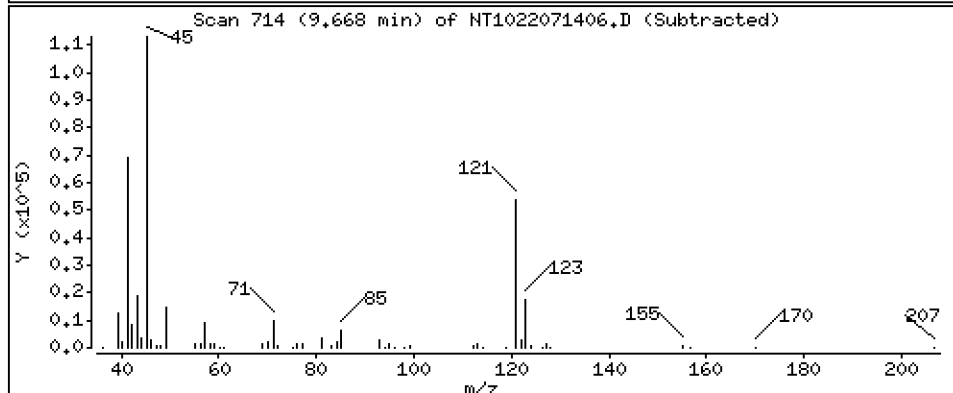
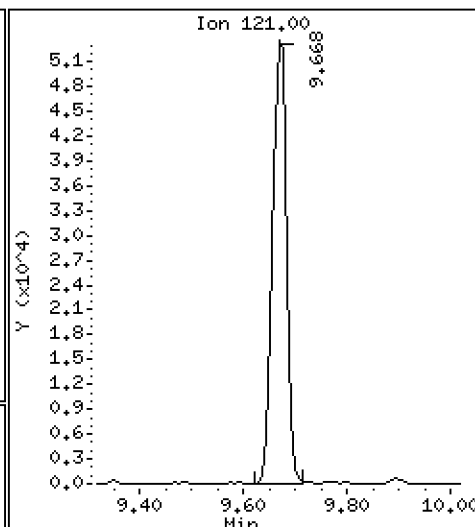
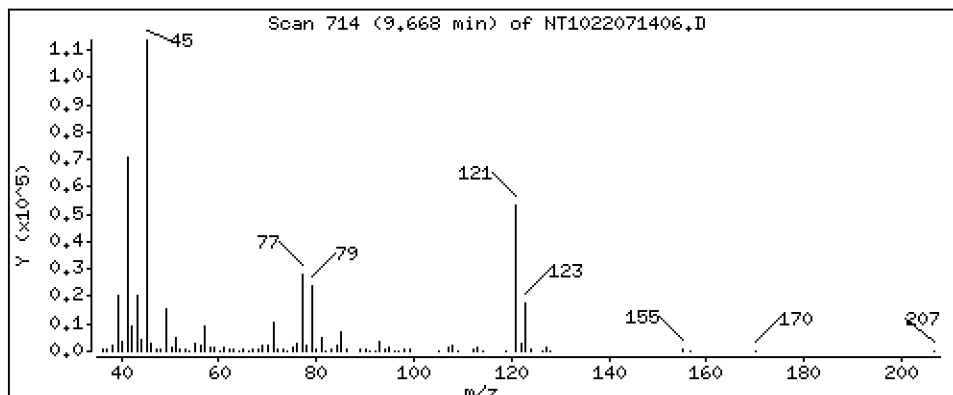
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 6,254 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

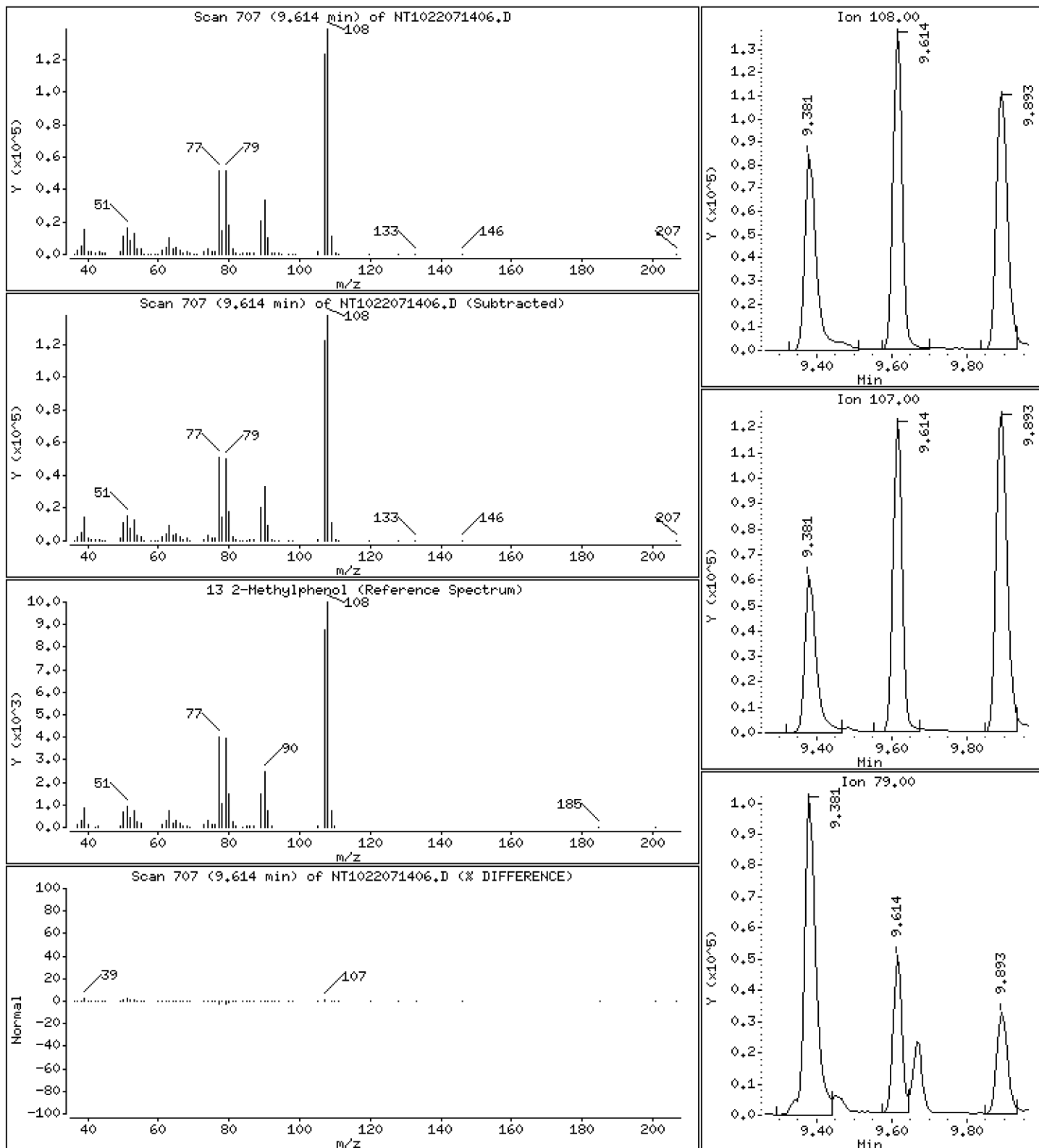
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 3.919 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

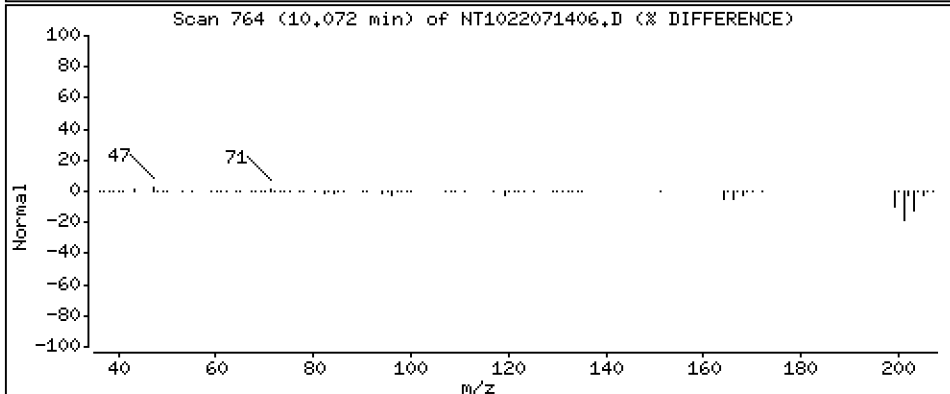
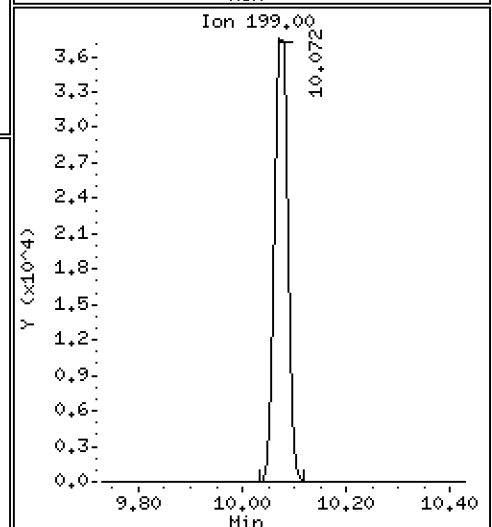
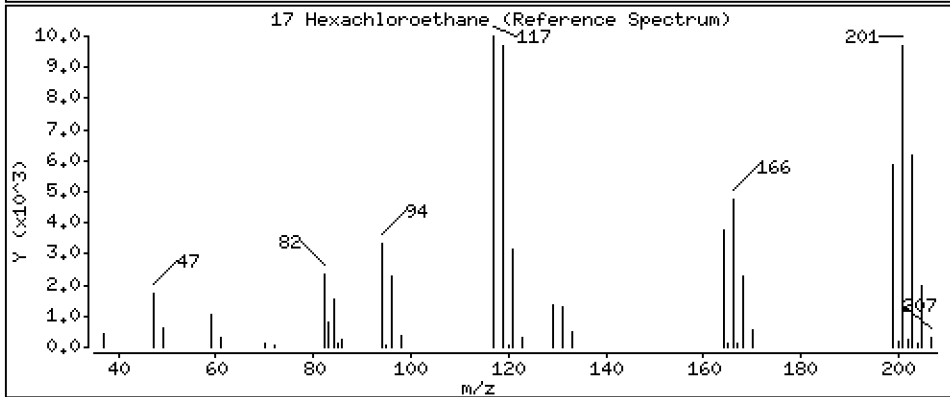
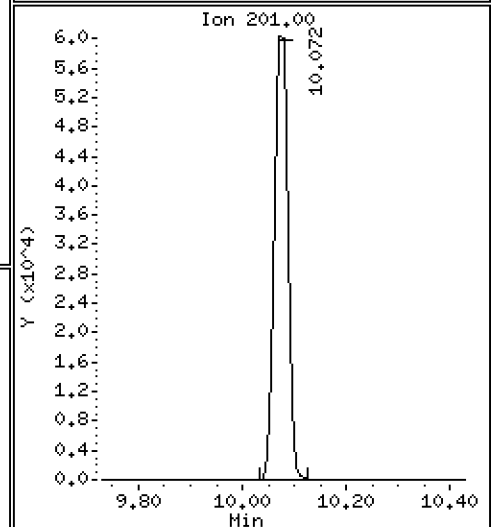
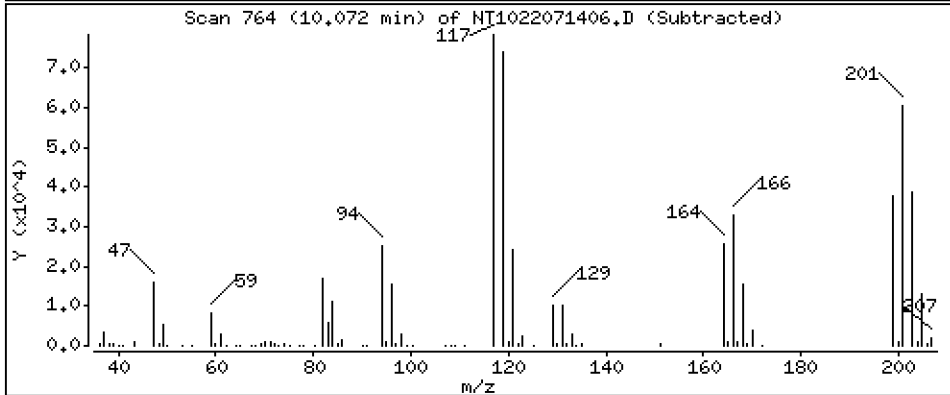
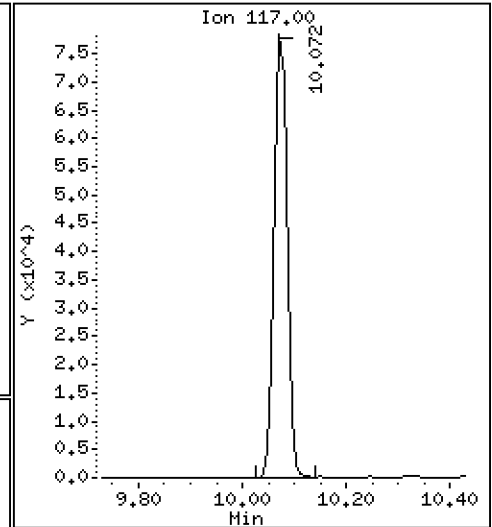
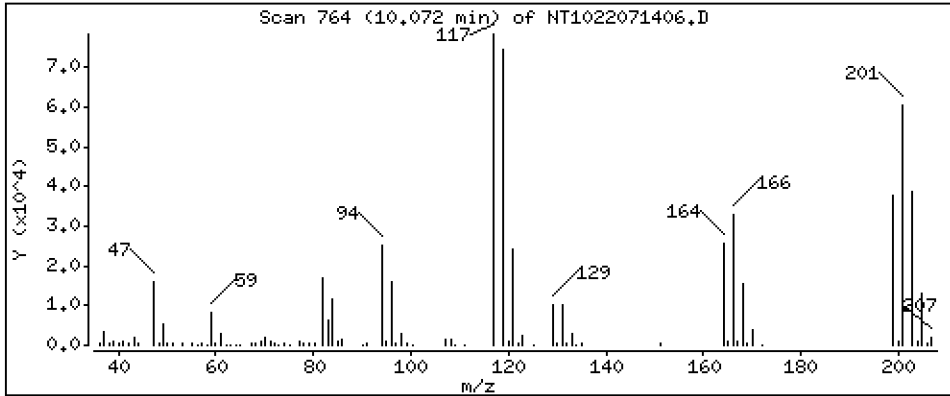
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 4.750 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

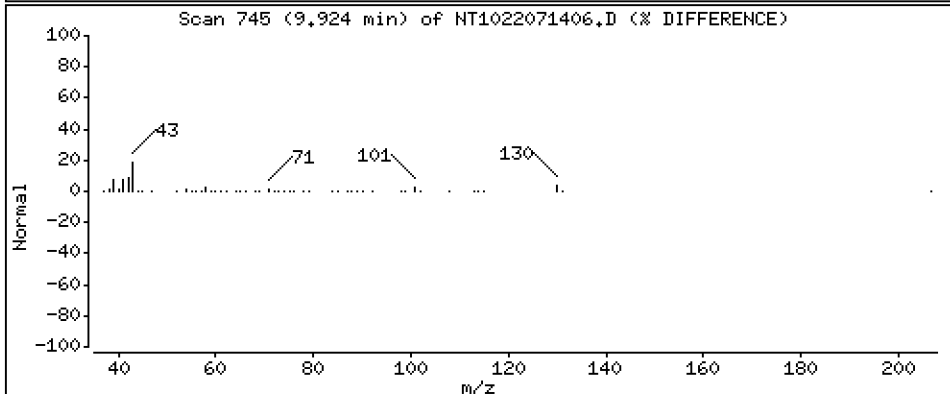
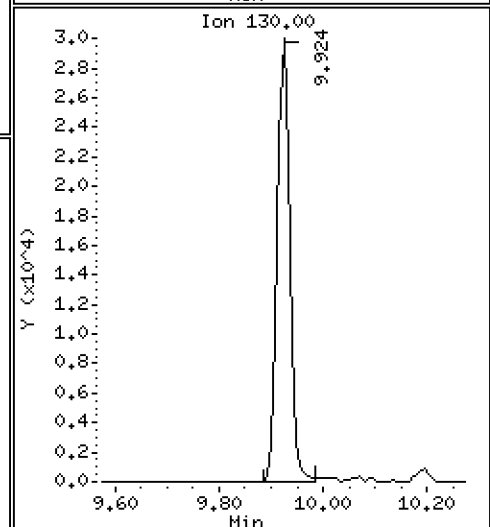
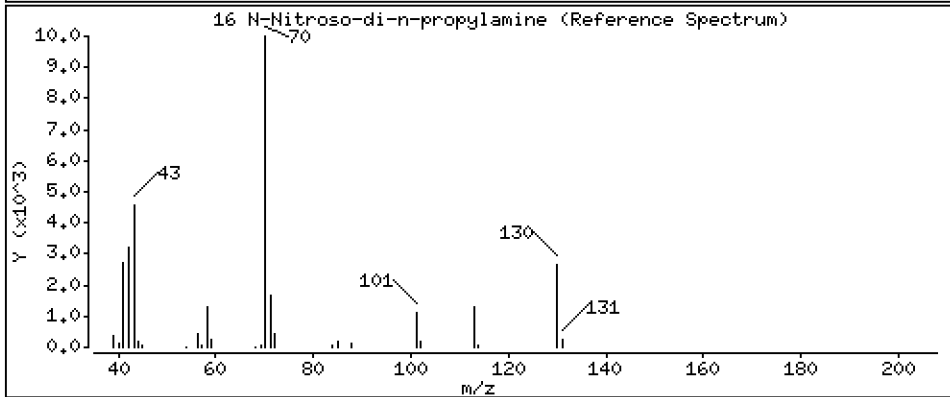
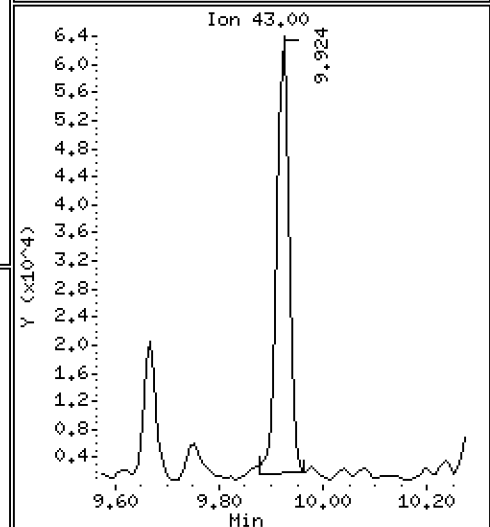
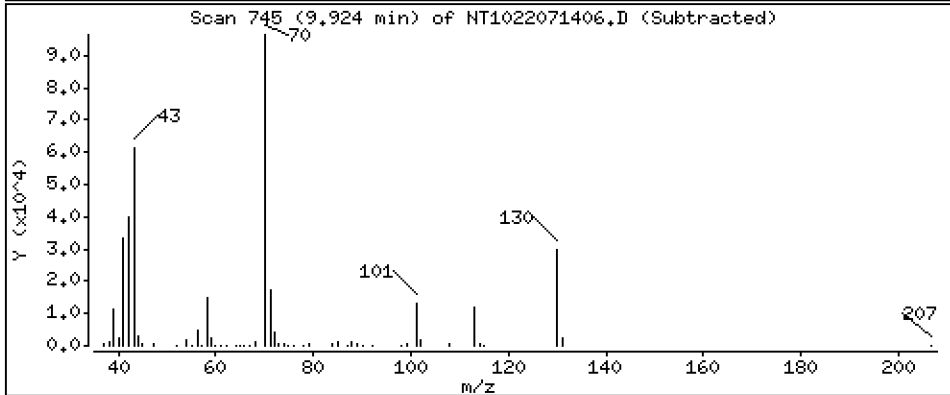
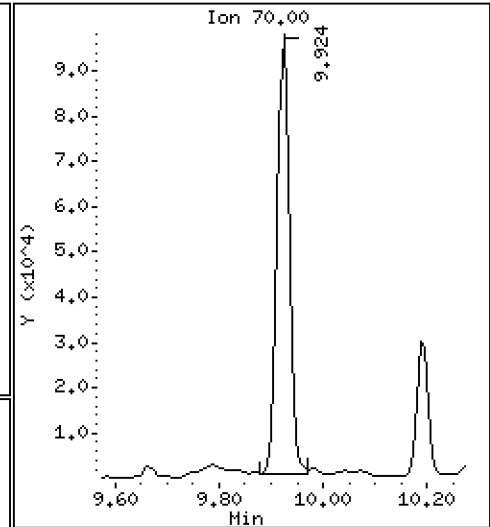
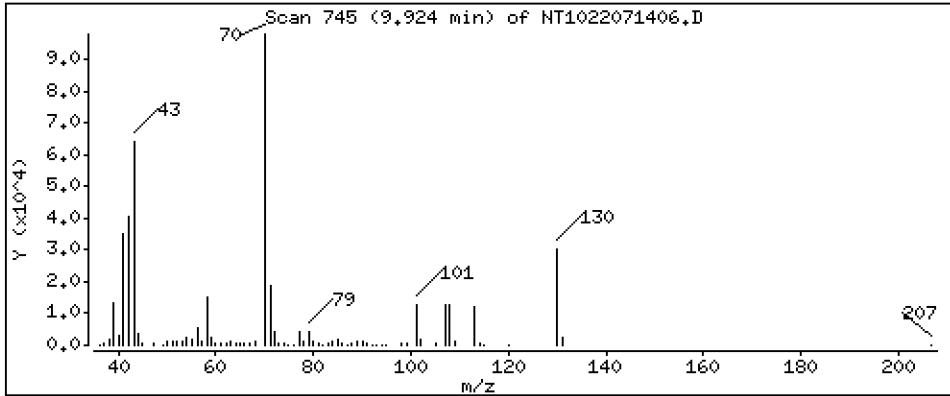
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 3,956 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

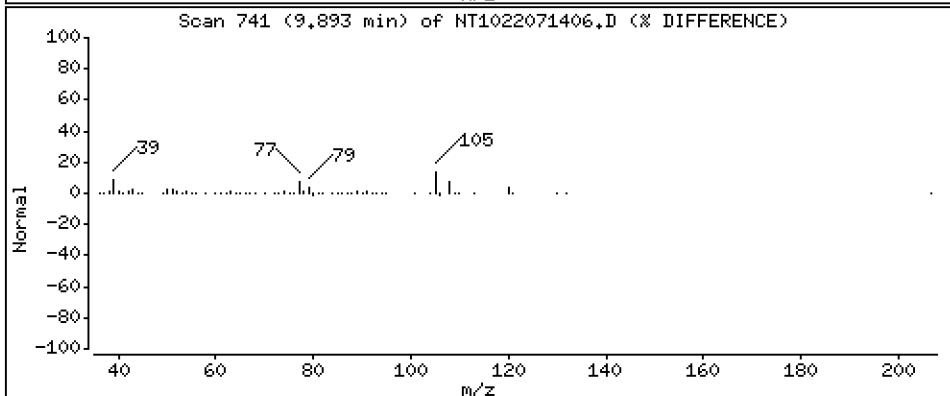
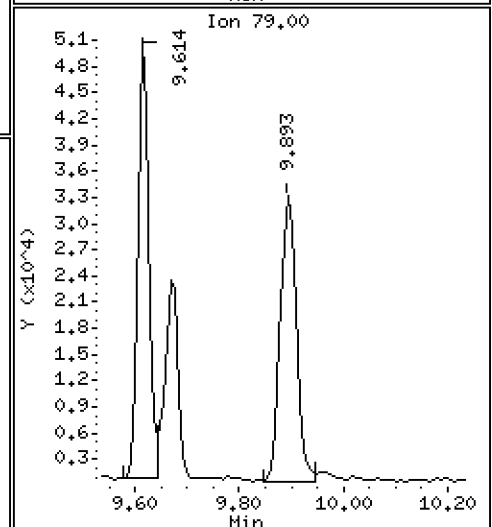
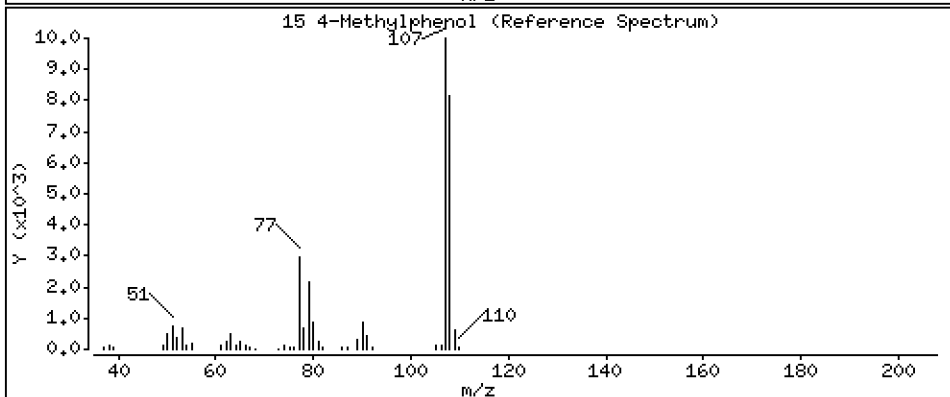
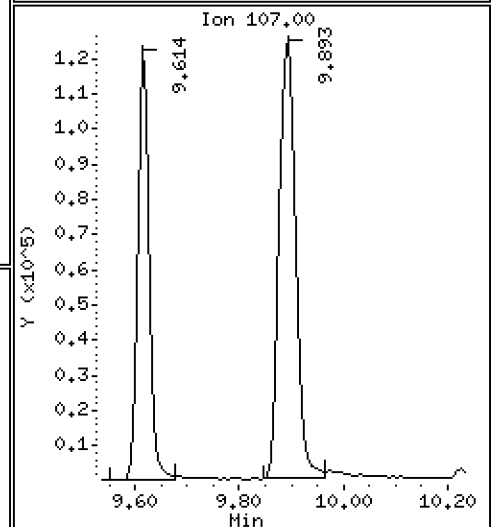
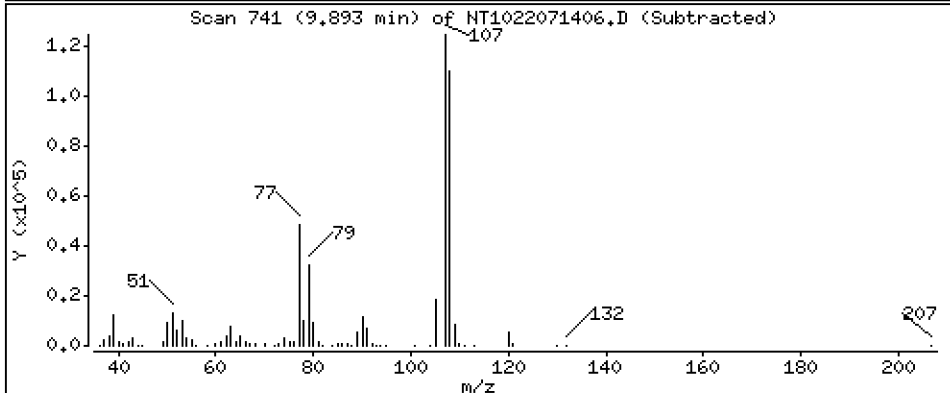
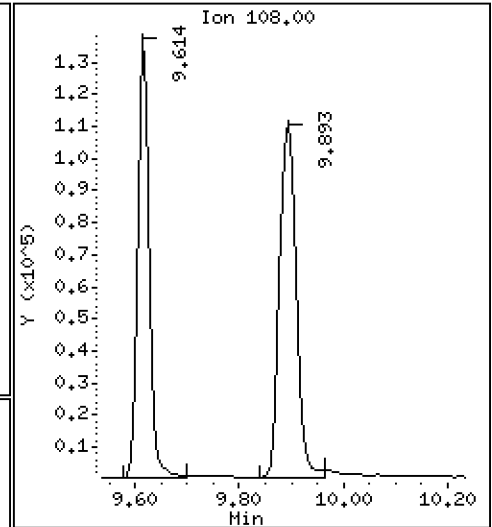
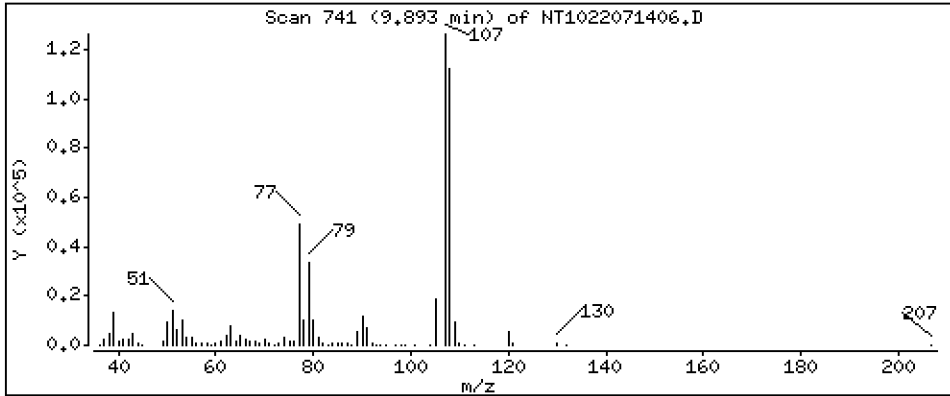
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,075 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

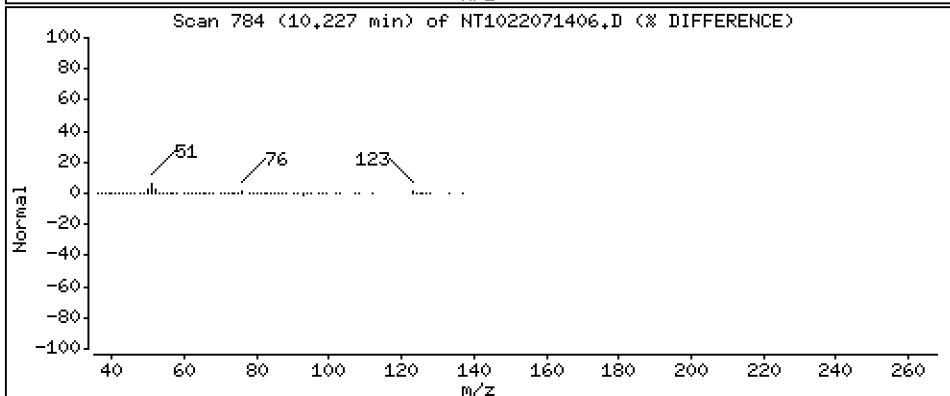
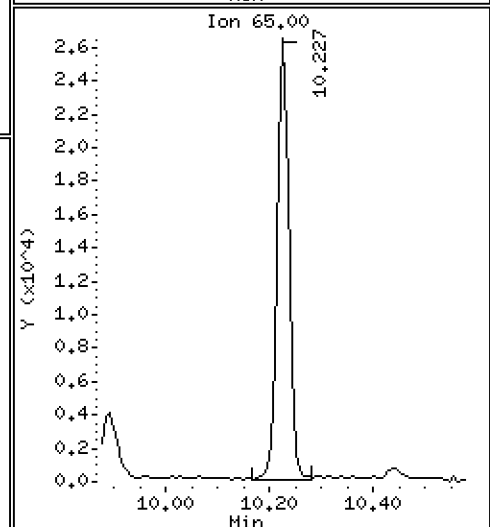
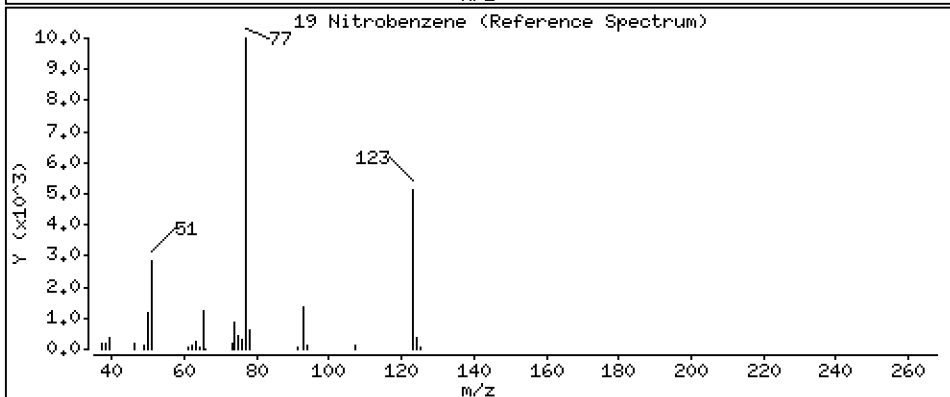
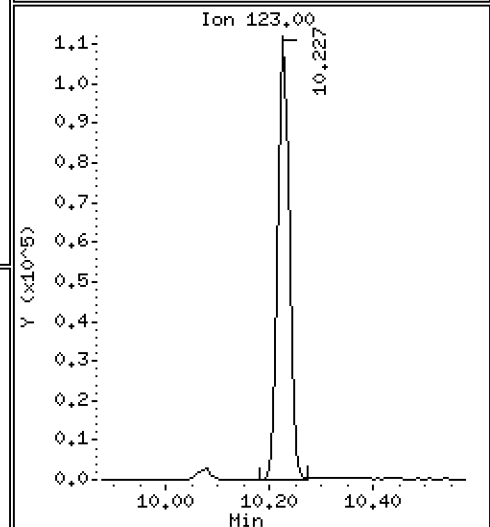
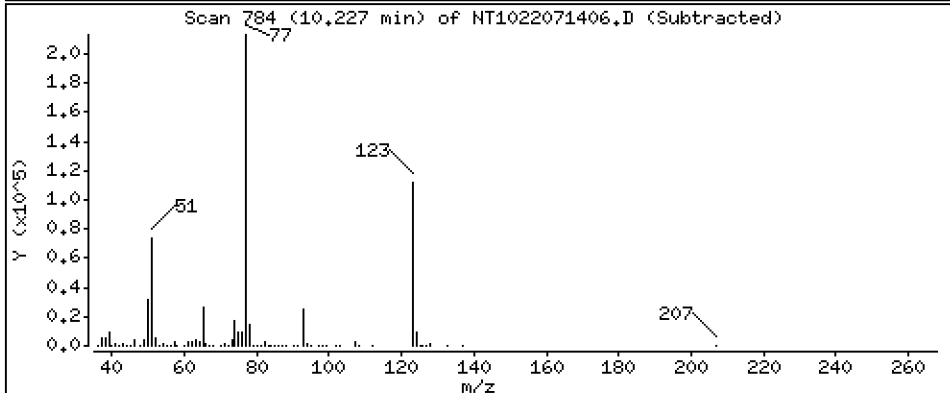
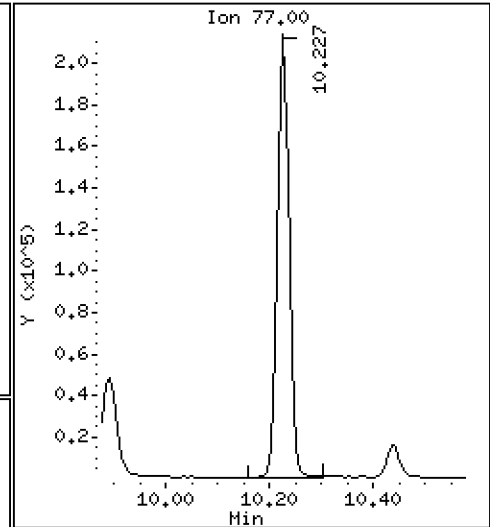
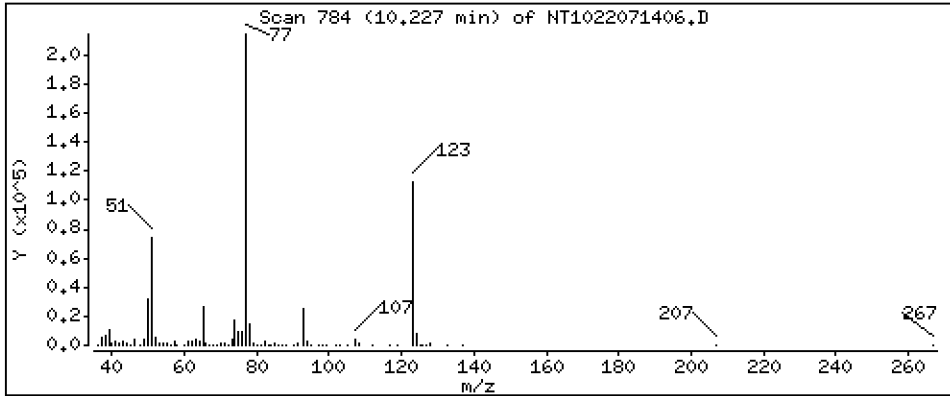
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,650 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

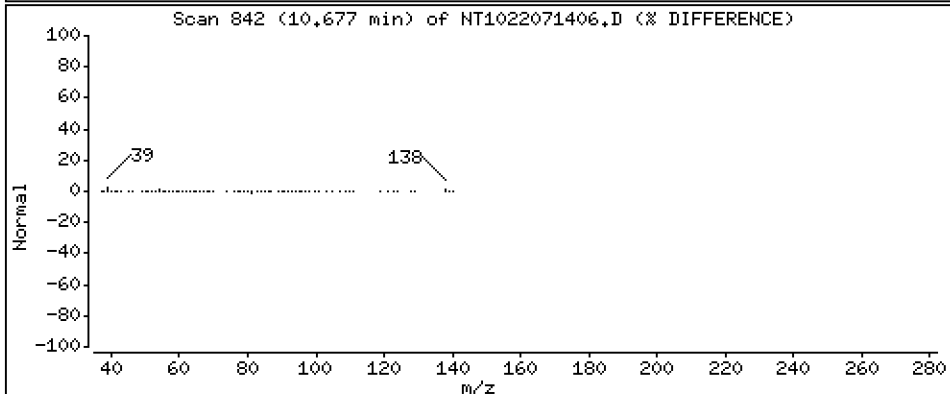
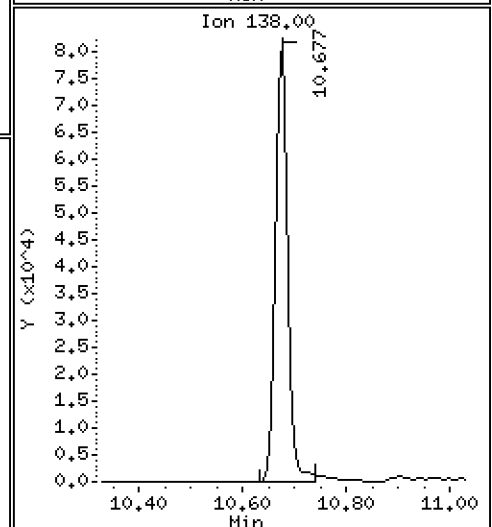
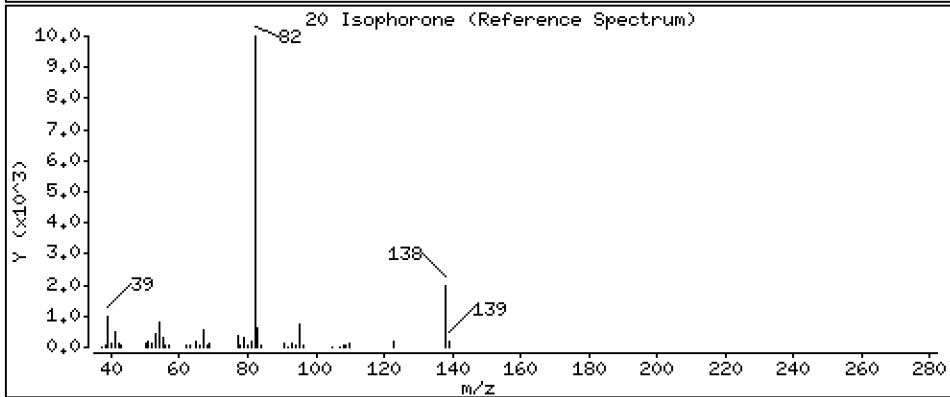
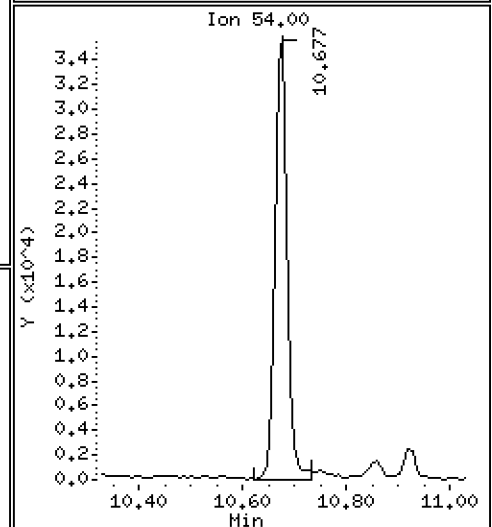
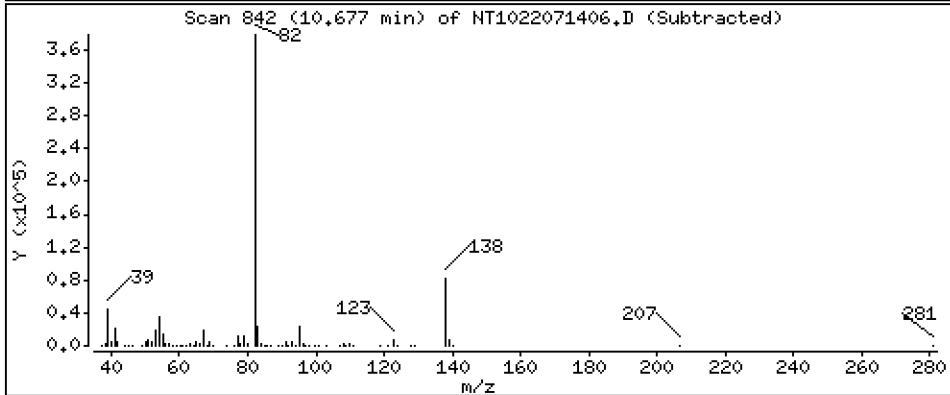
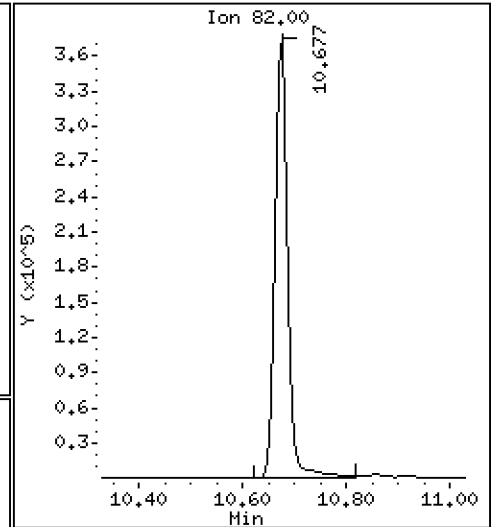
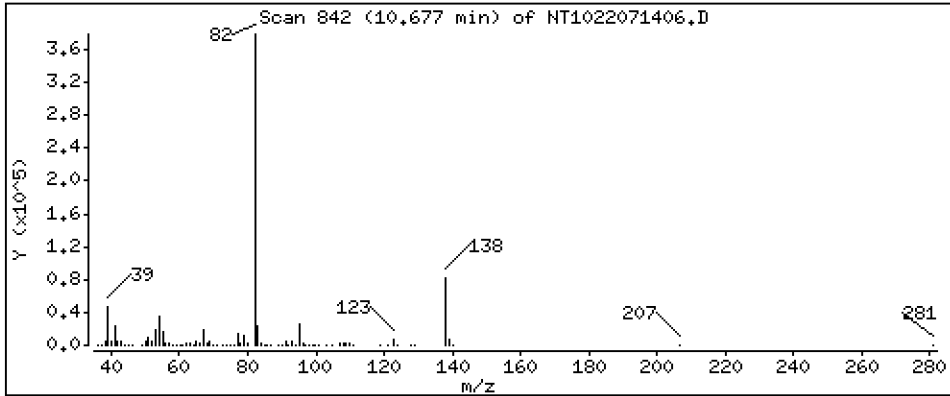
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 7,438 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

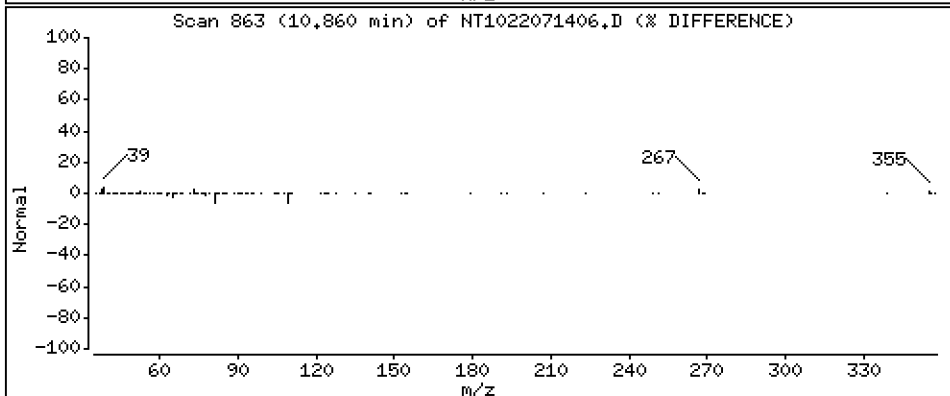
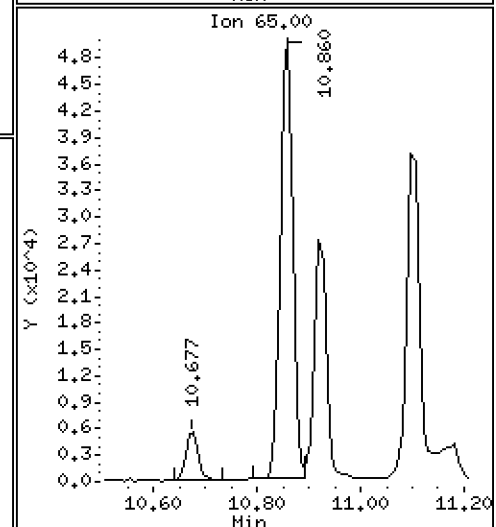
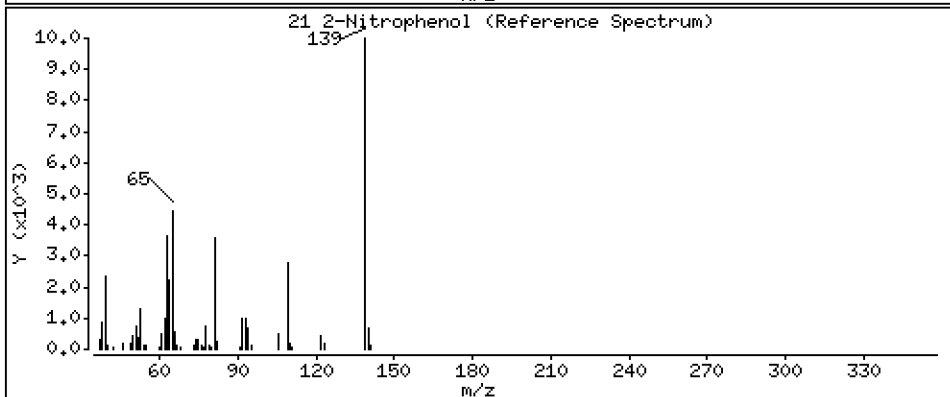
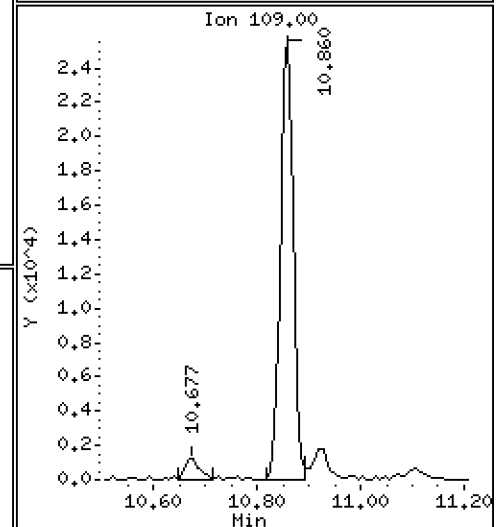
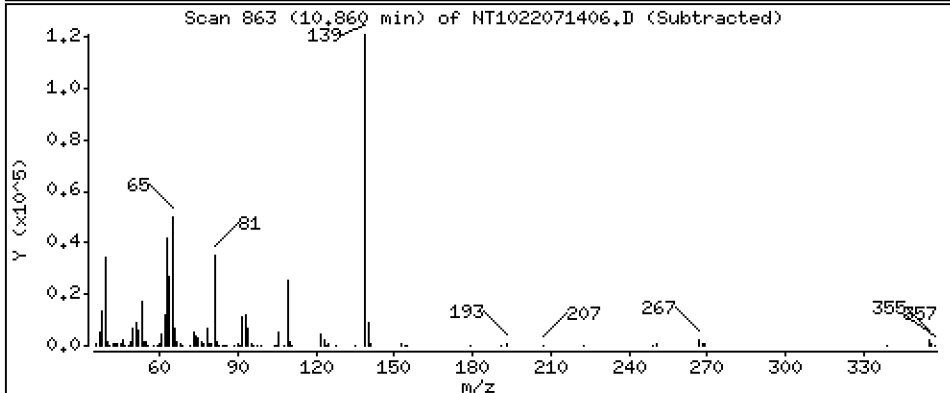
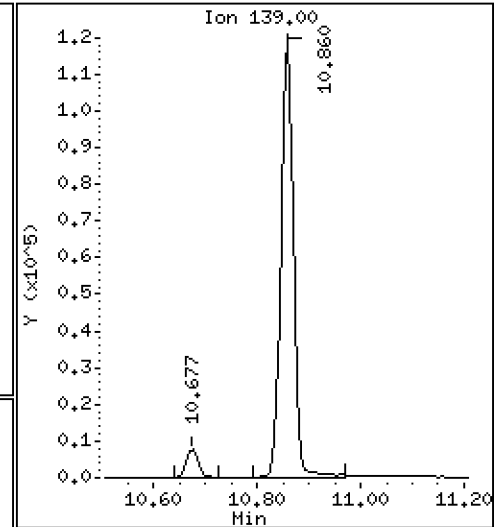
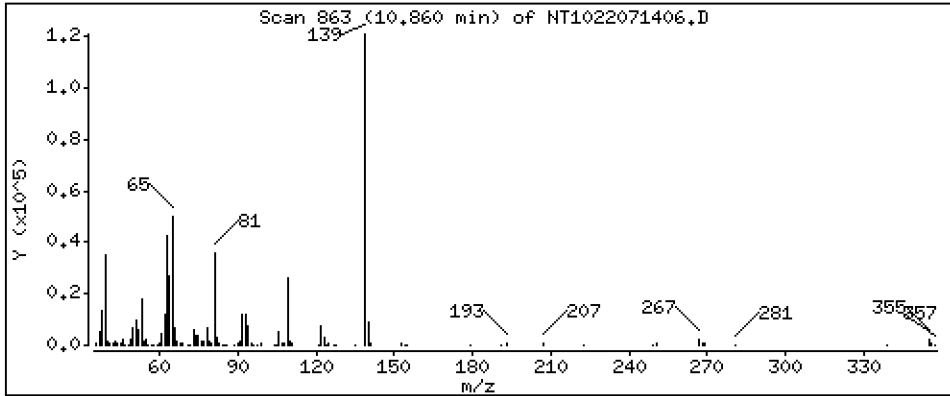
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,101 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

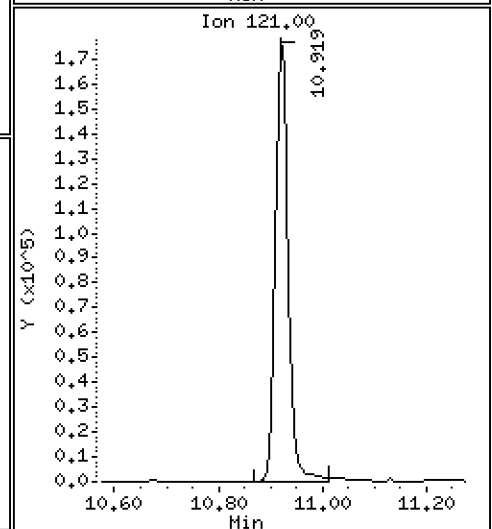
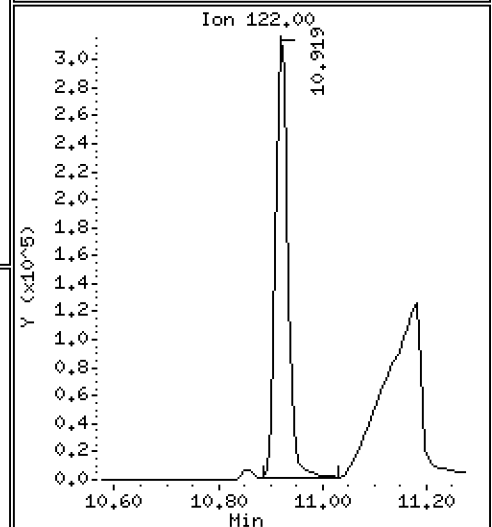
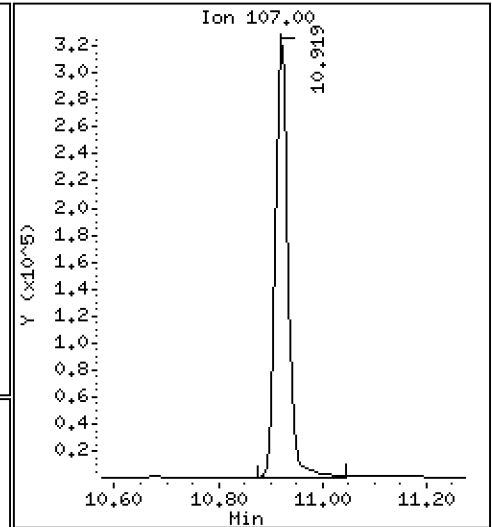
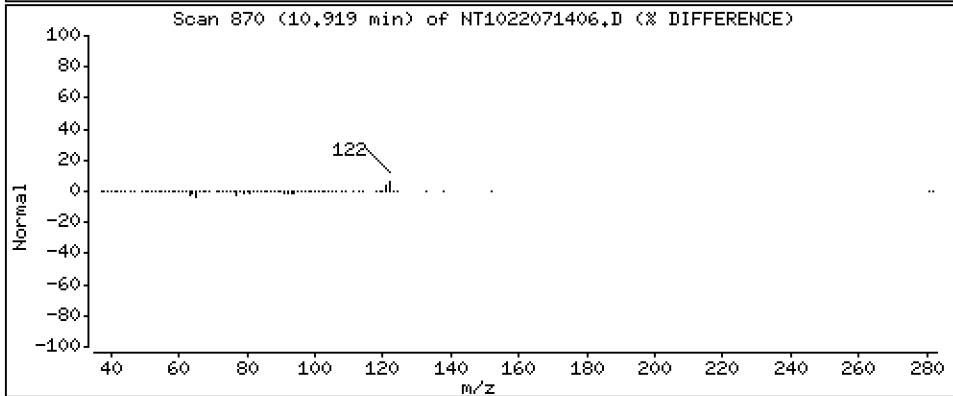
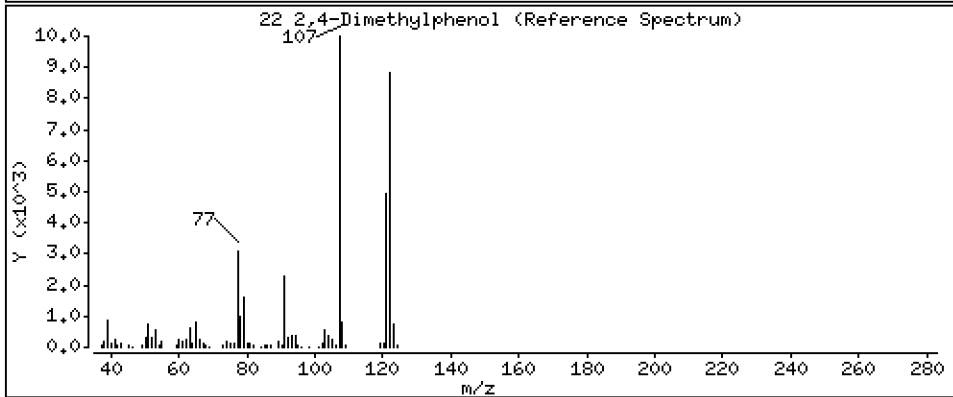
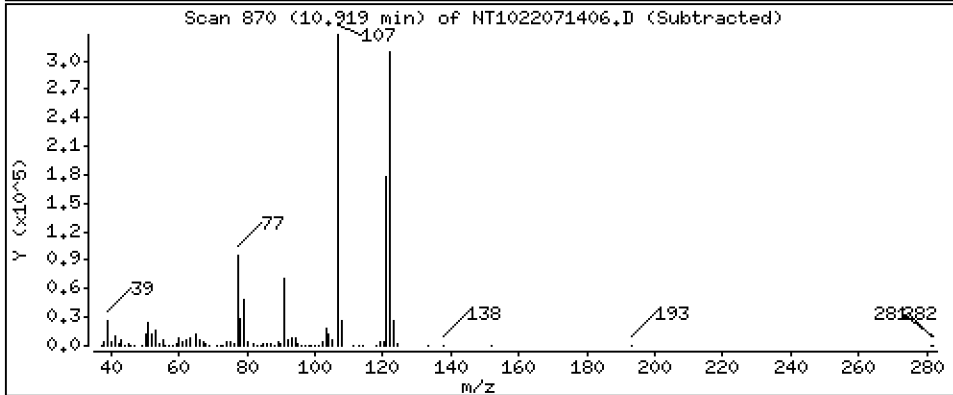
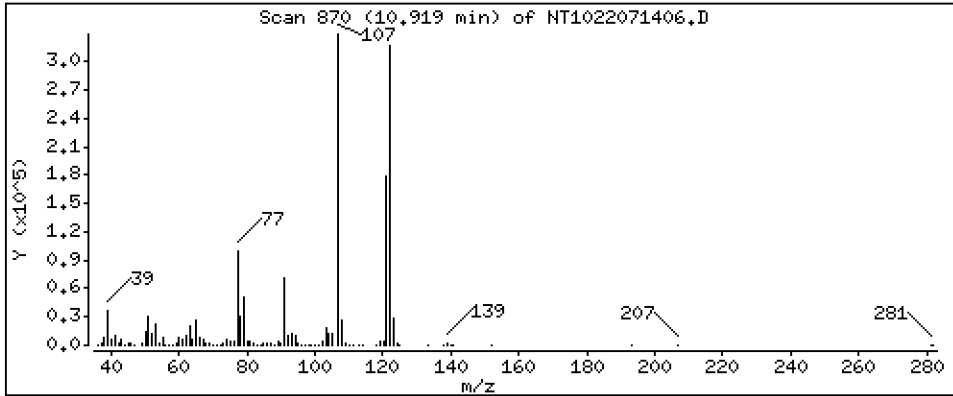
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 10,59 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

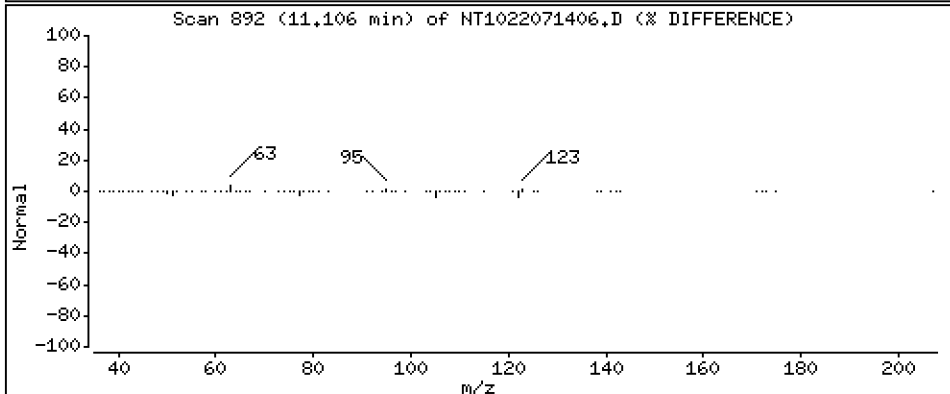
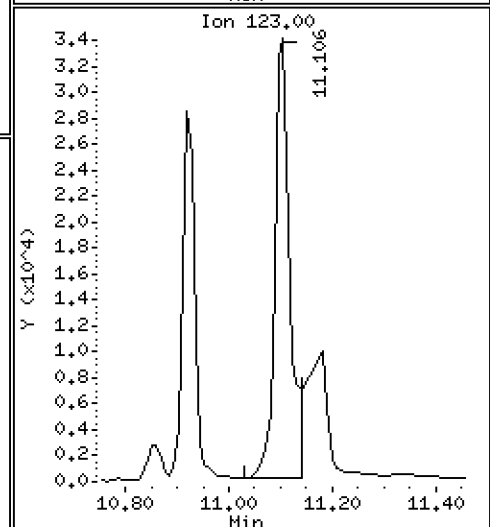
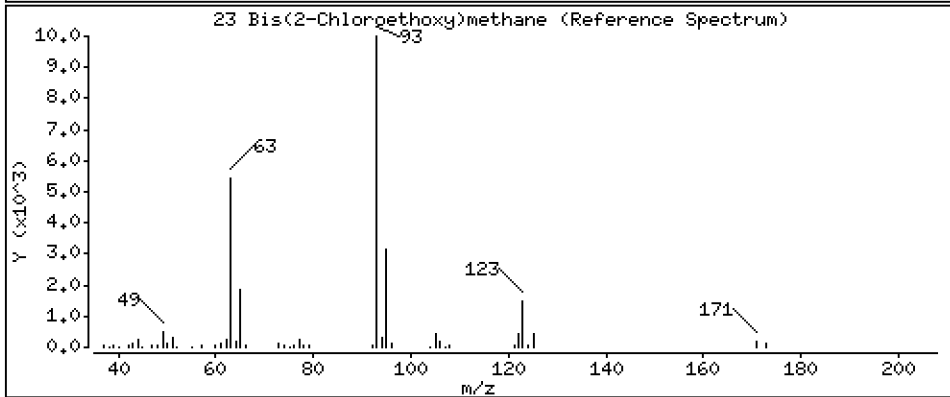
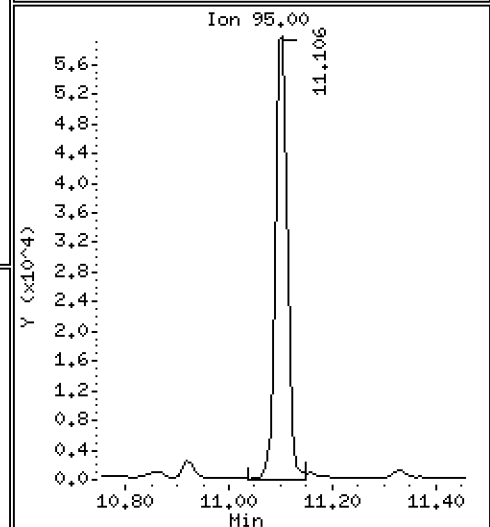
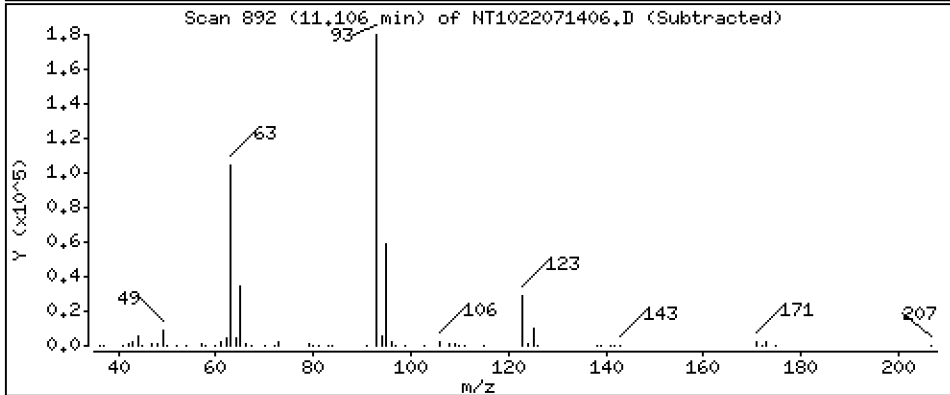
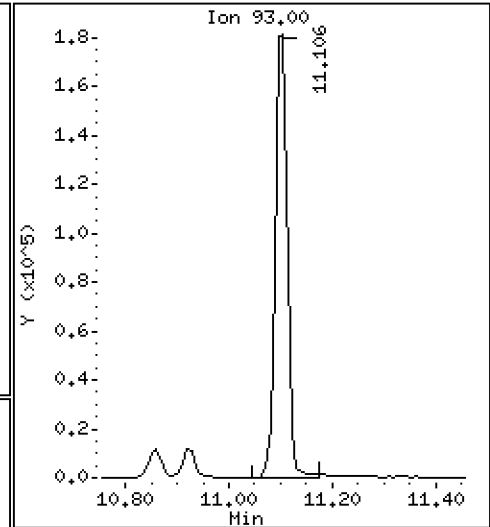
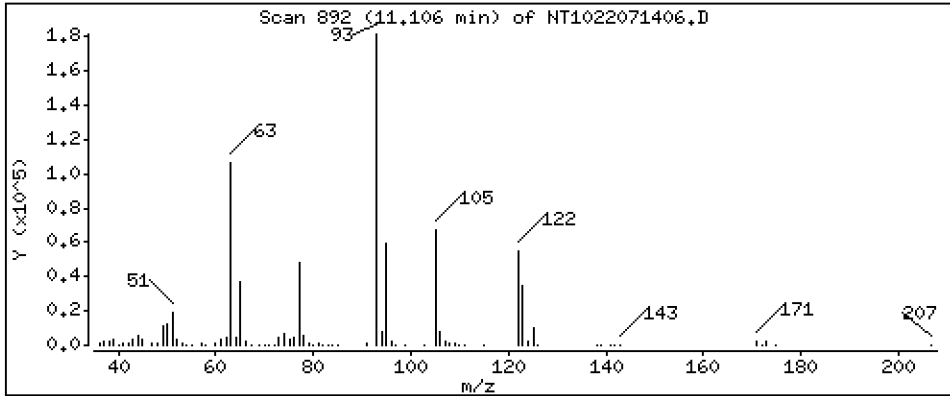
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,090 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

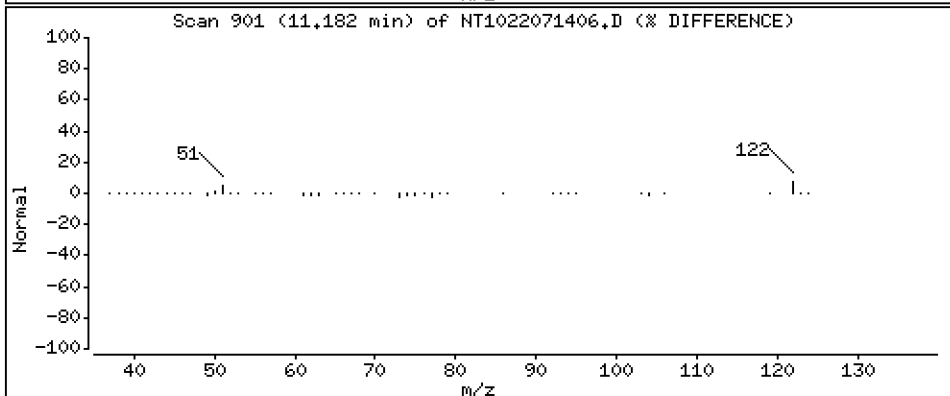
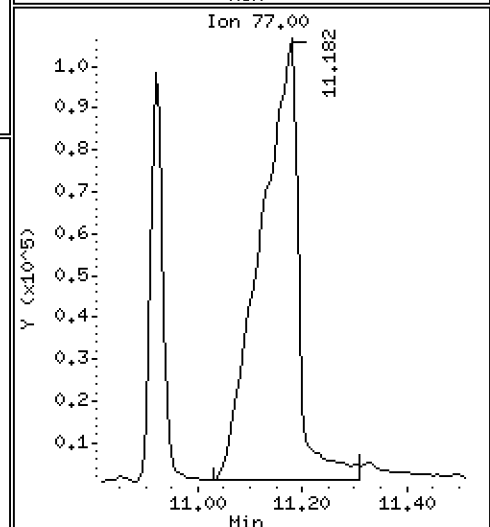
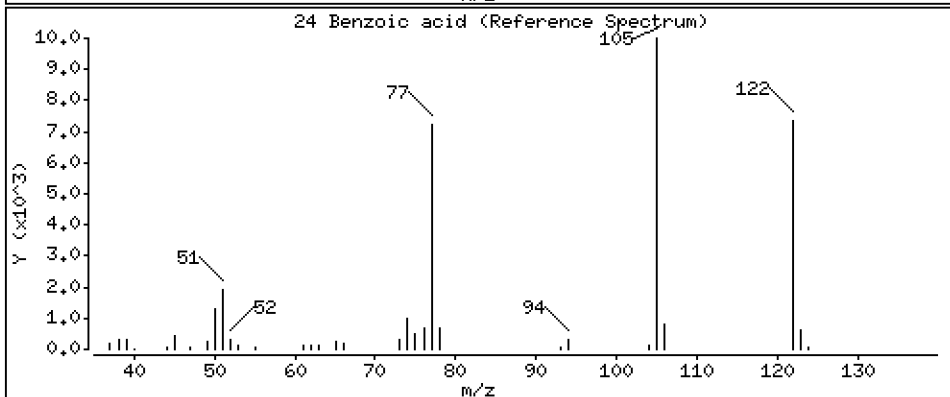
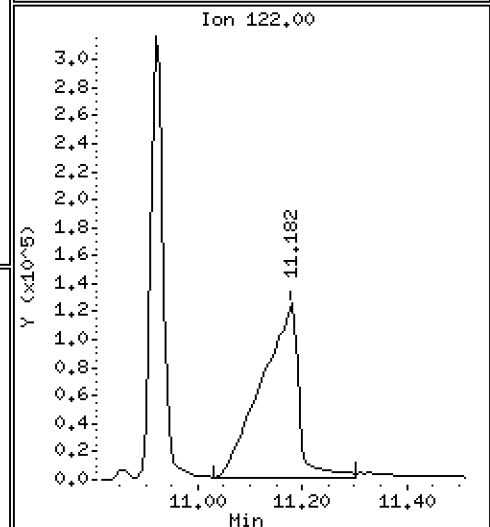
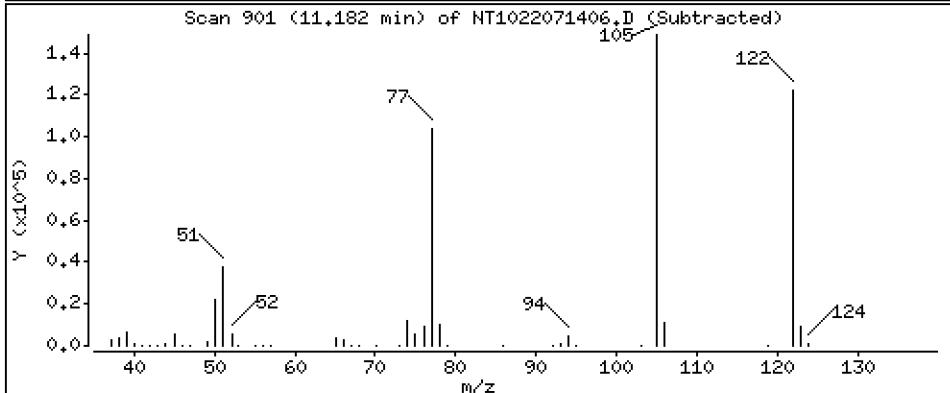
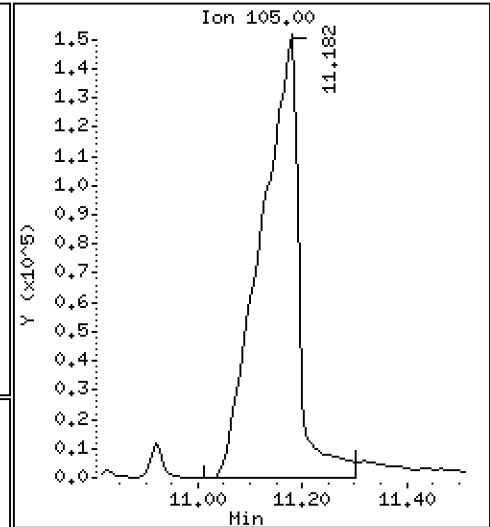
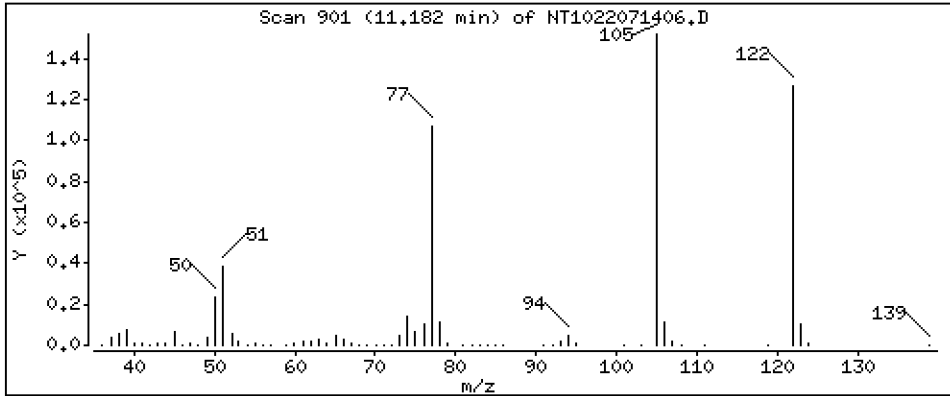
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 27,41 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

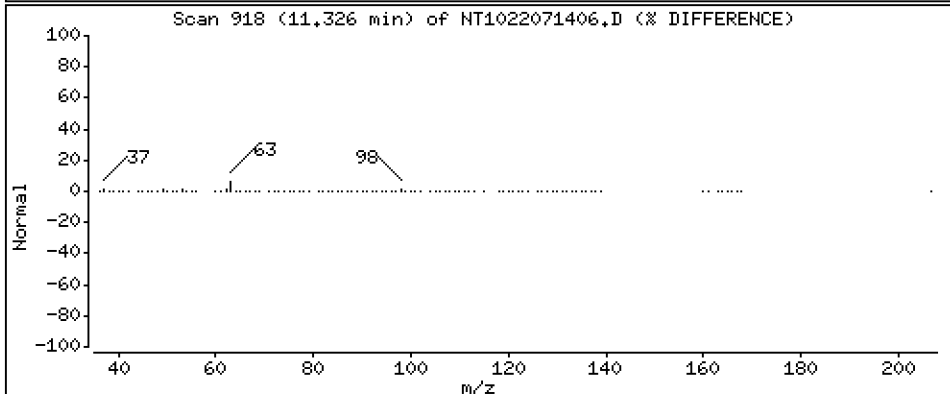
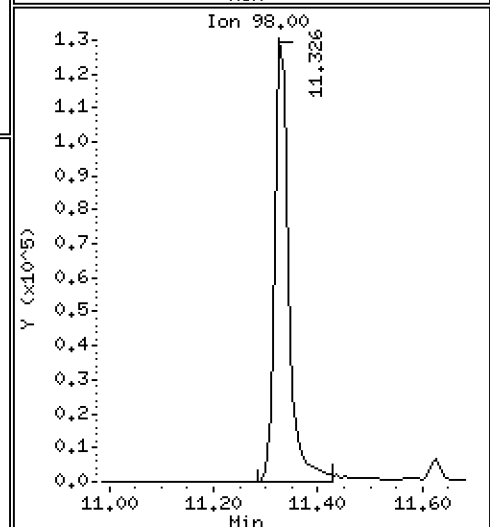
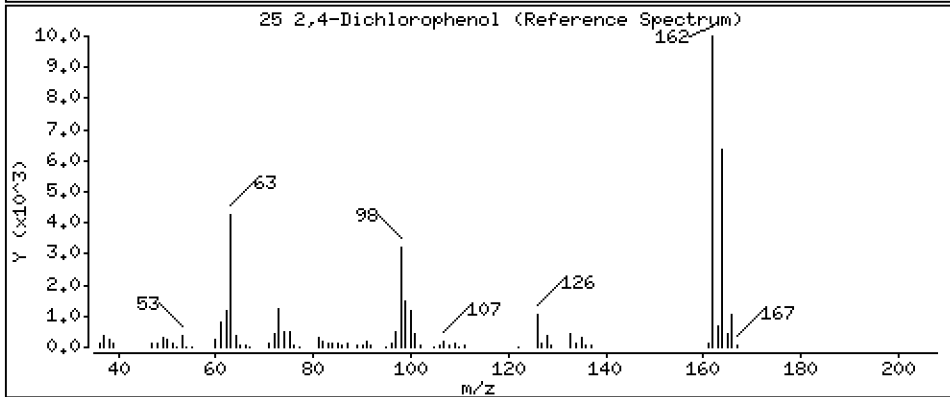
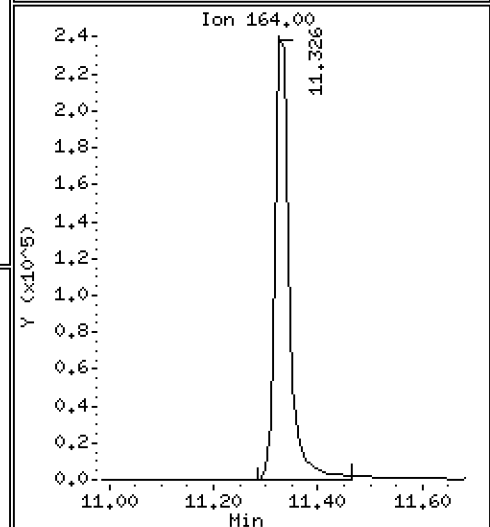
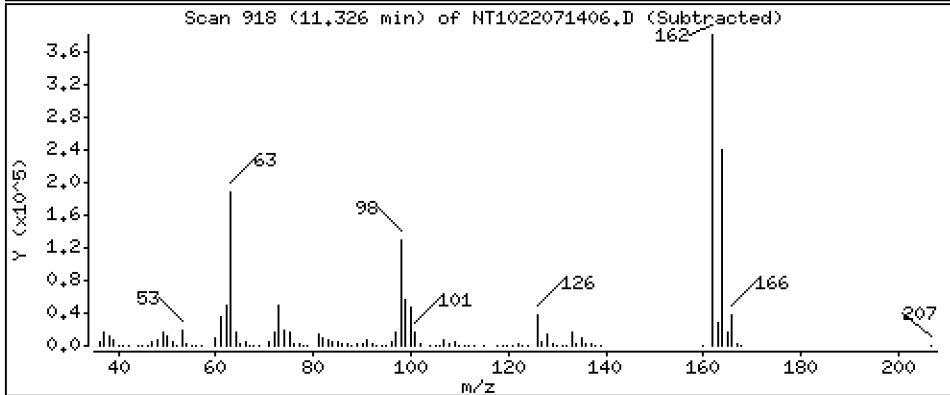
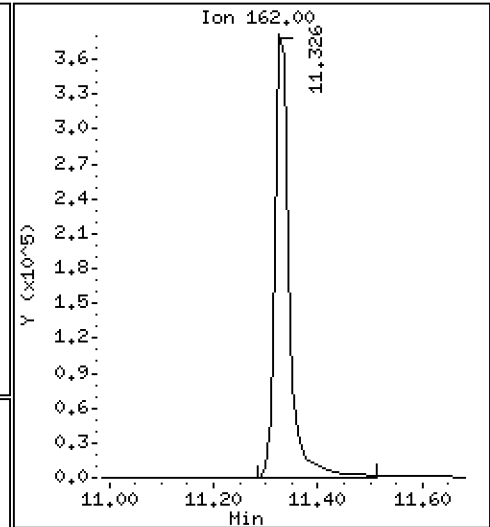
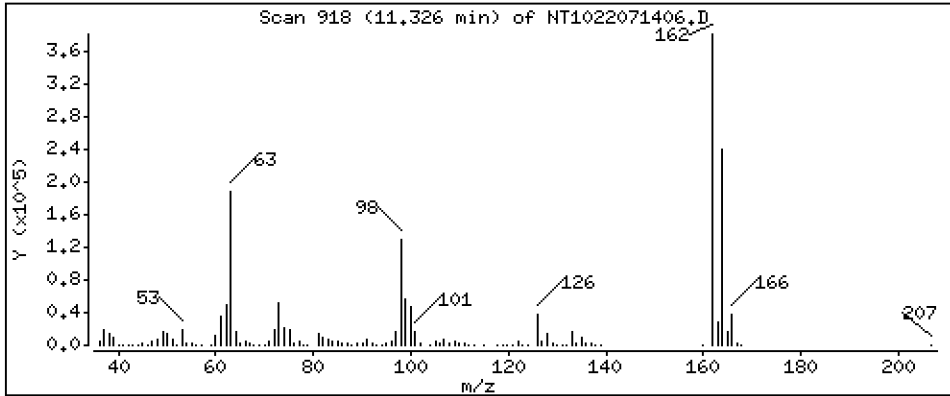
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 14,13 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

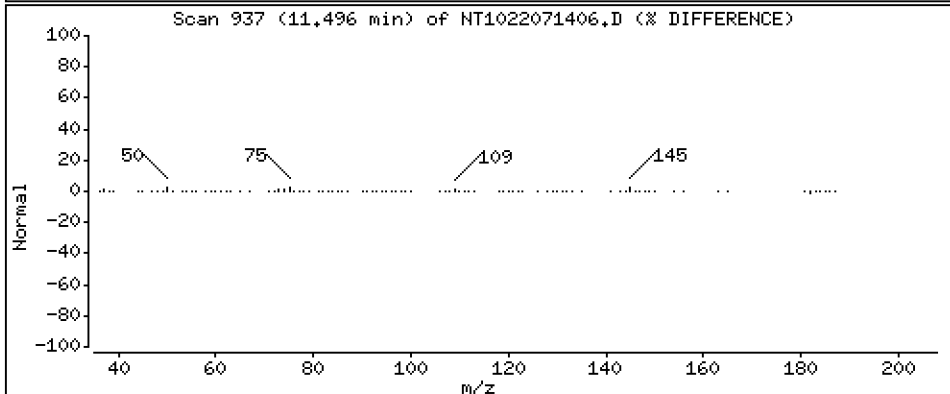
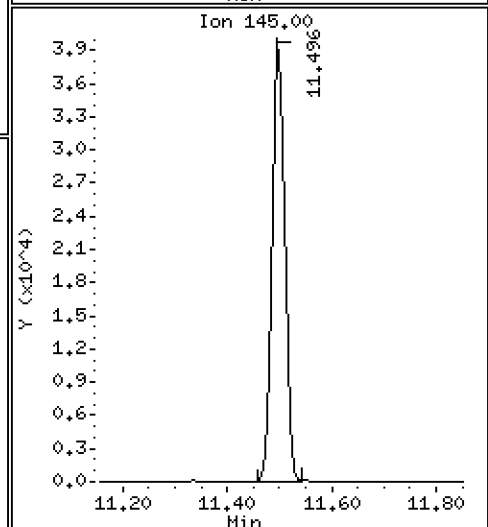
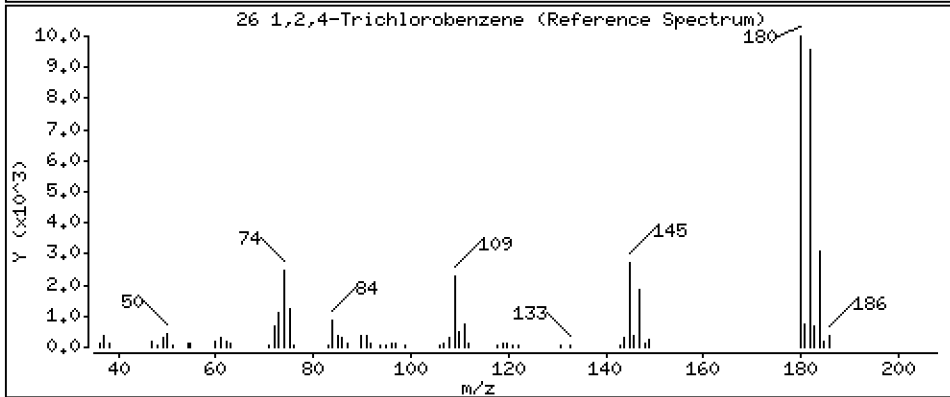
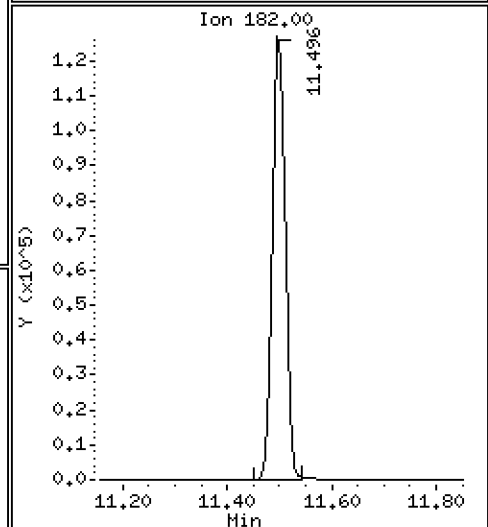
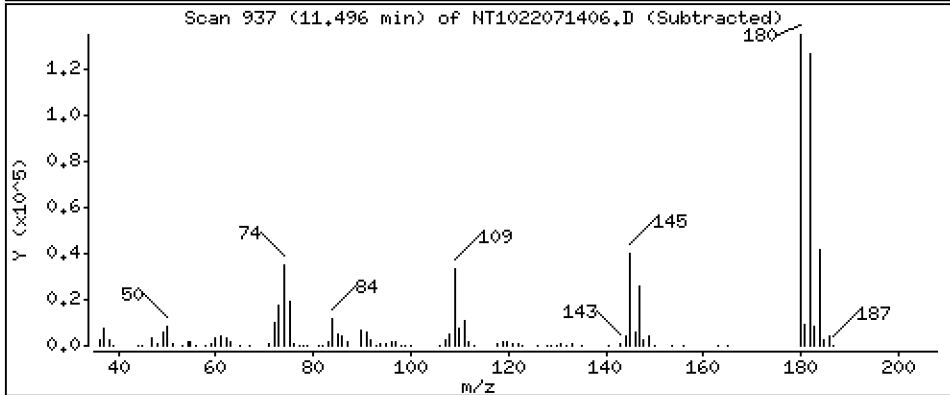
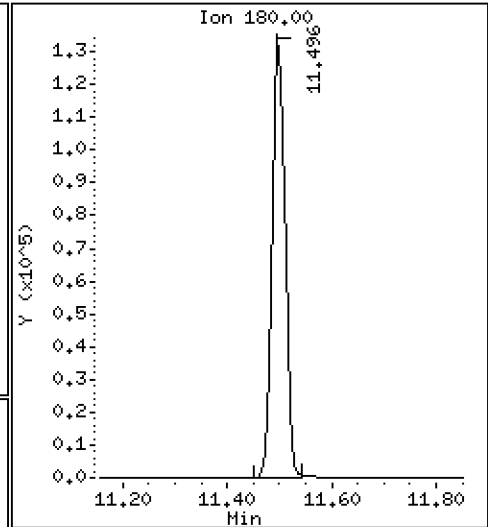
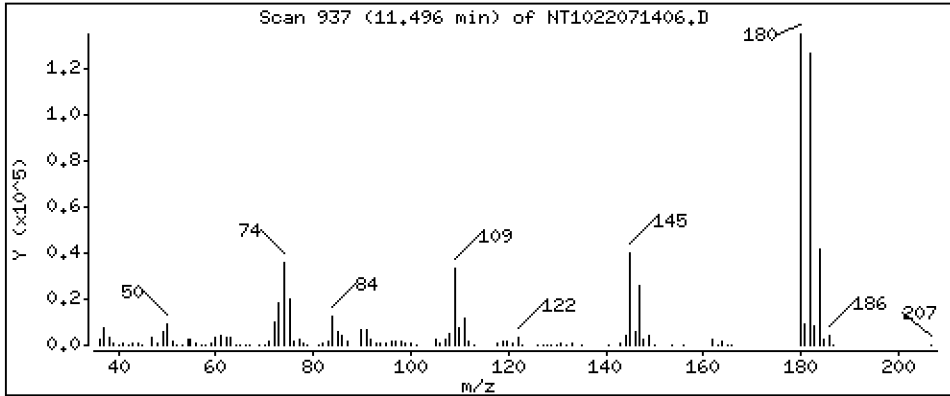
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 3,914 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

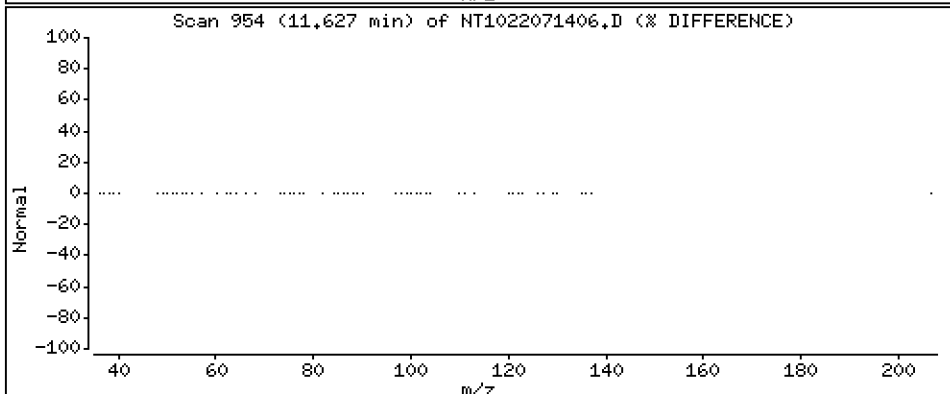
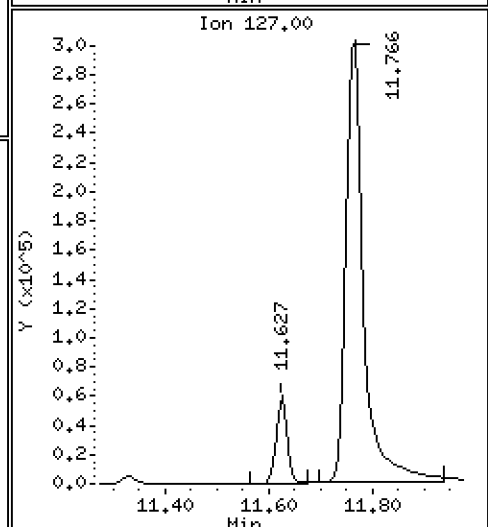
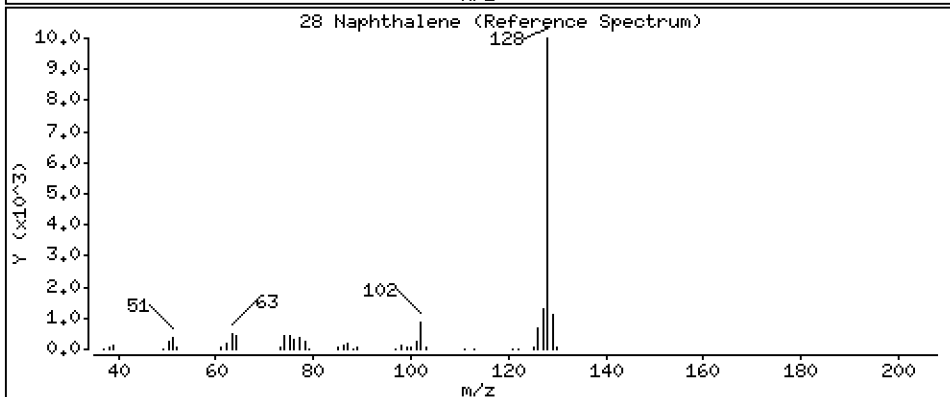
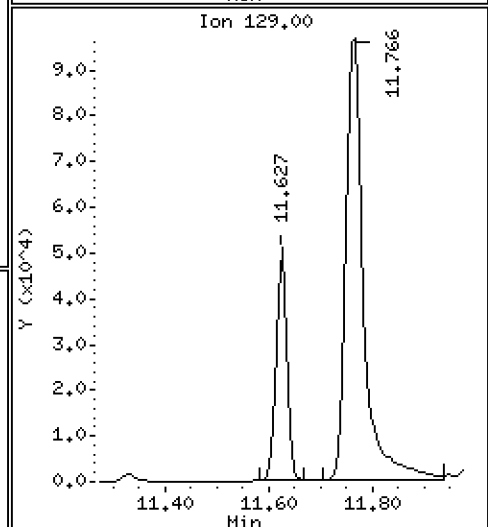
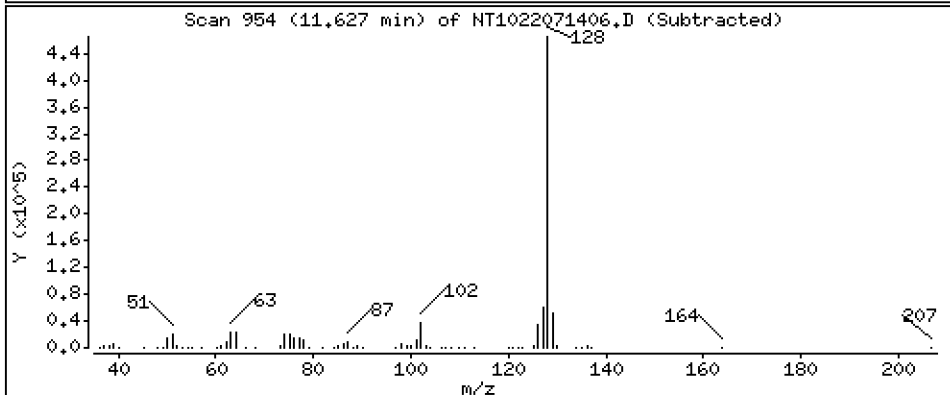
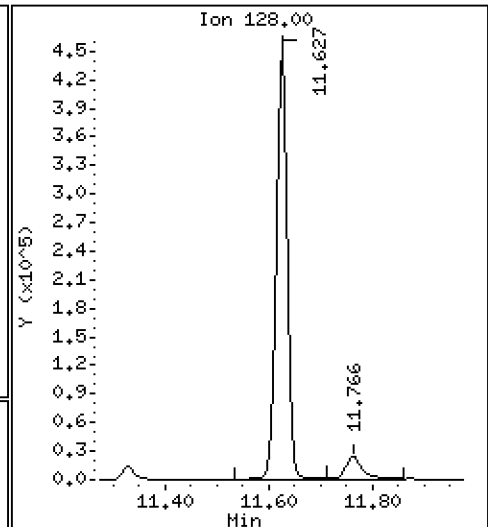
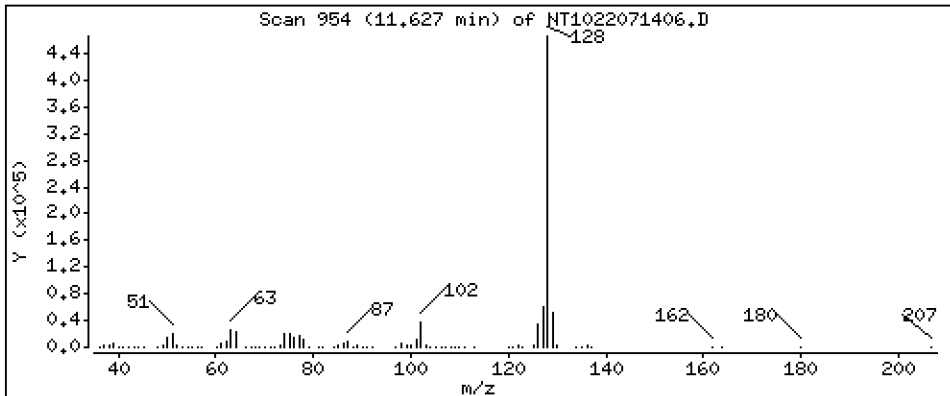
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,343 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

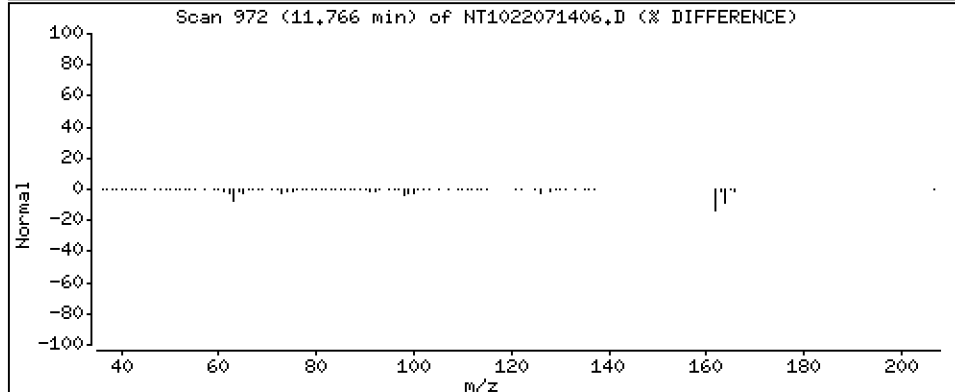
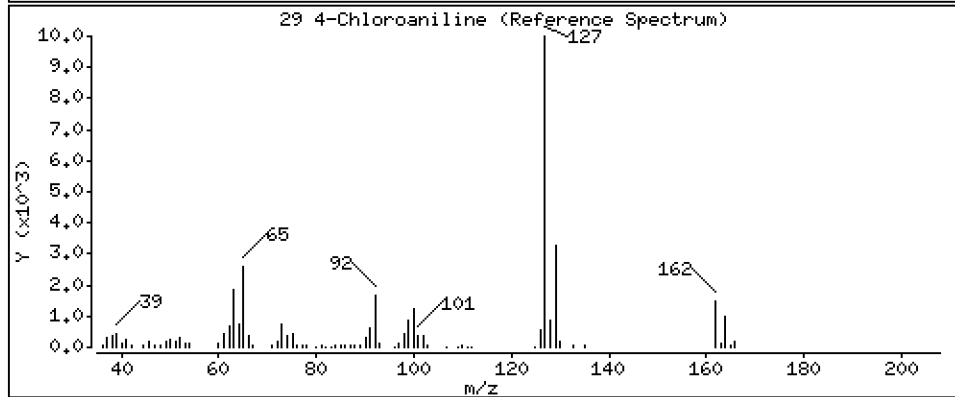
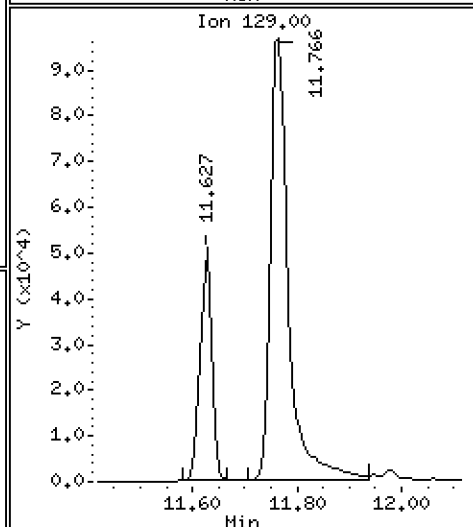
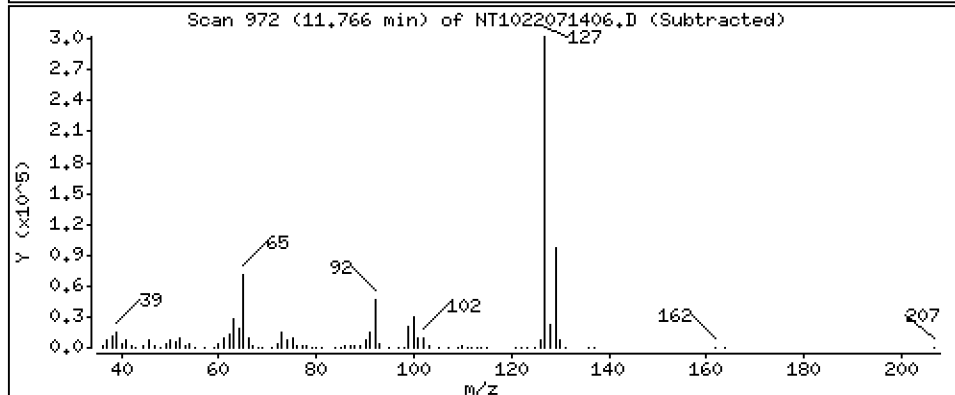
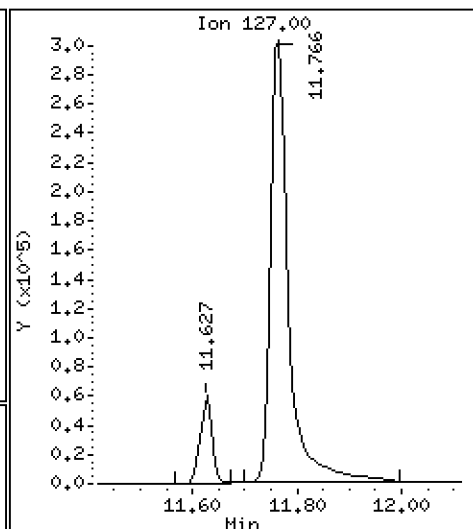
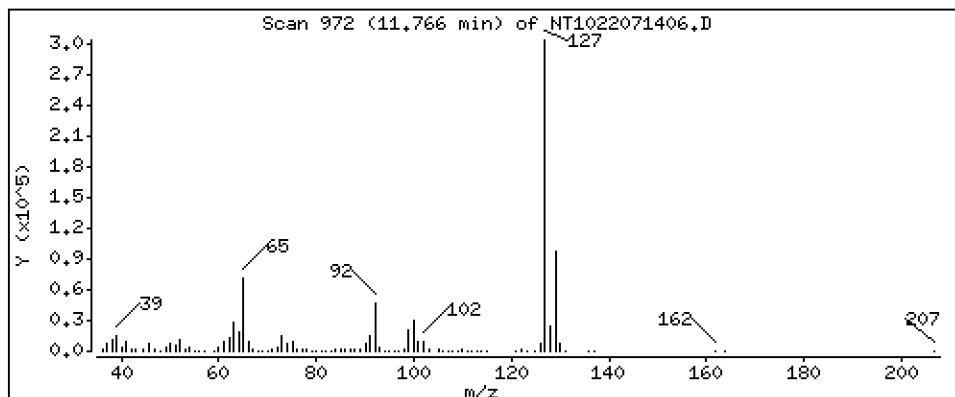
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 10,47 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

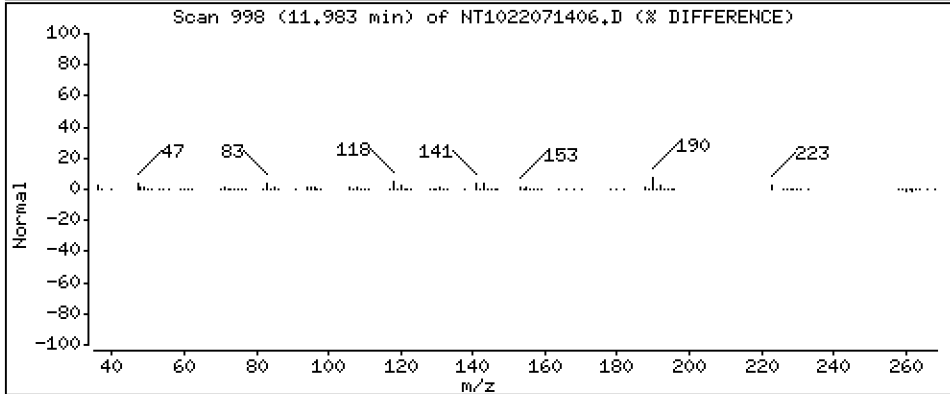
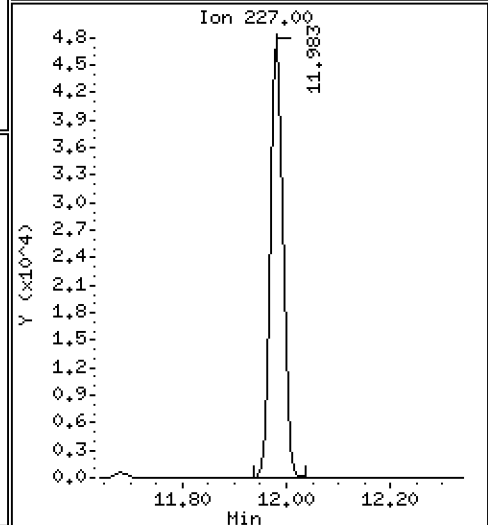
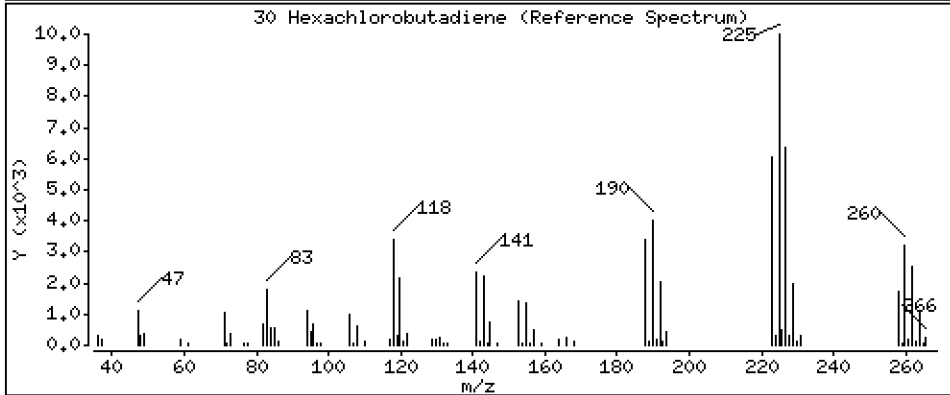
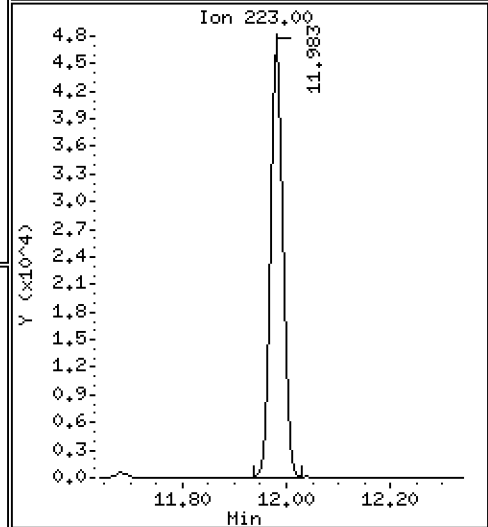
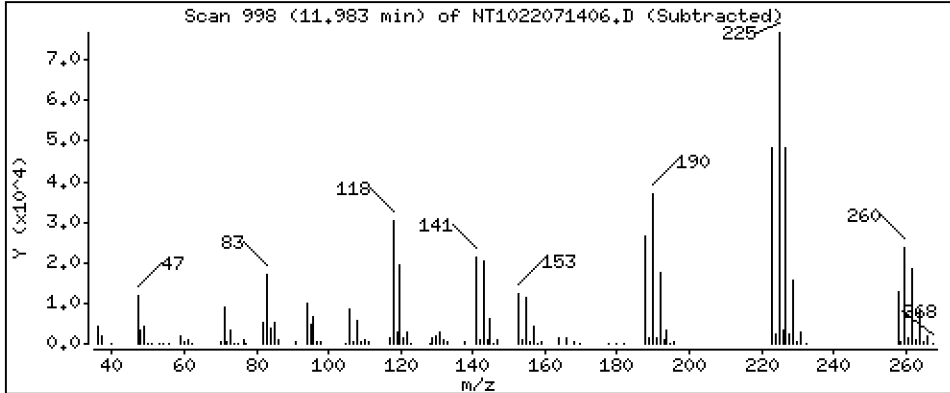
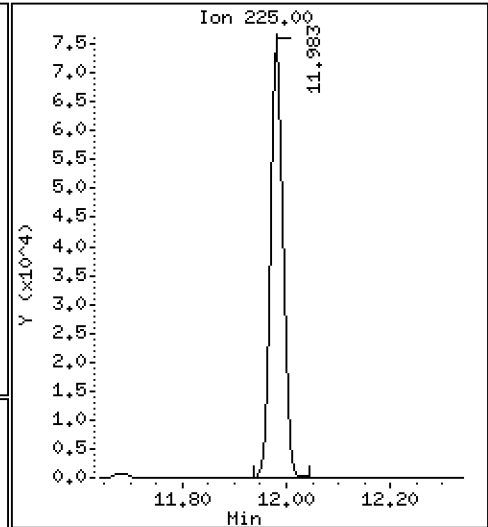
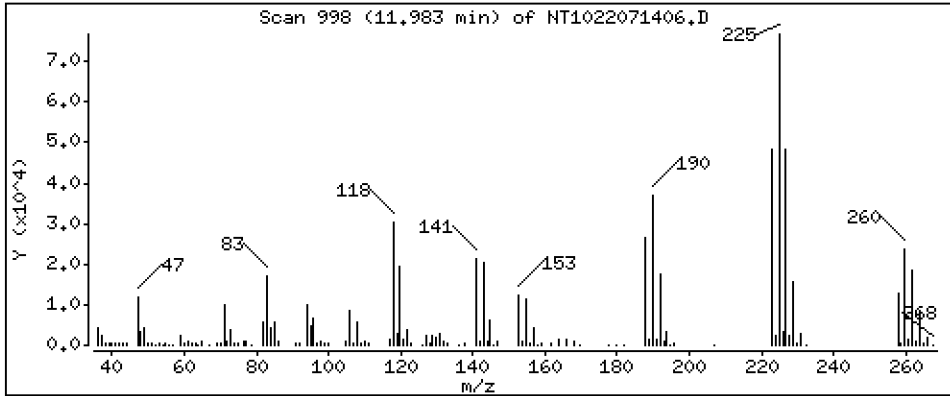
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,563 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

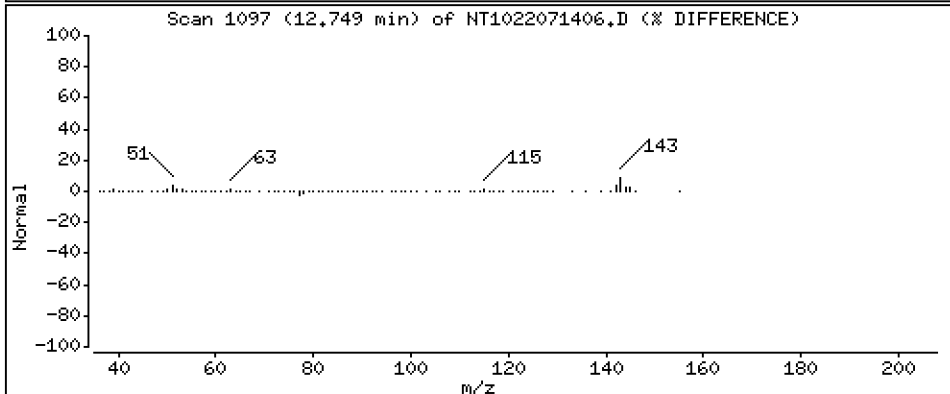
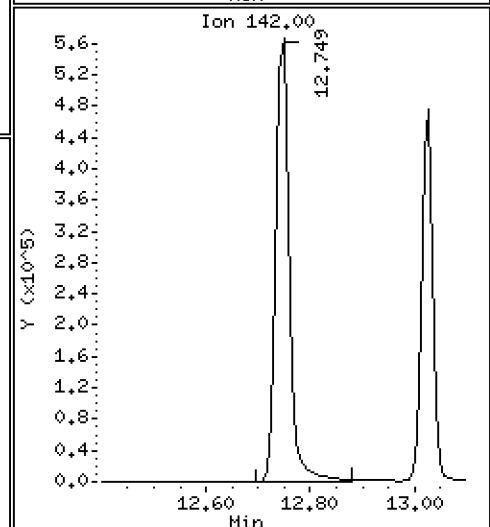
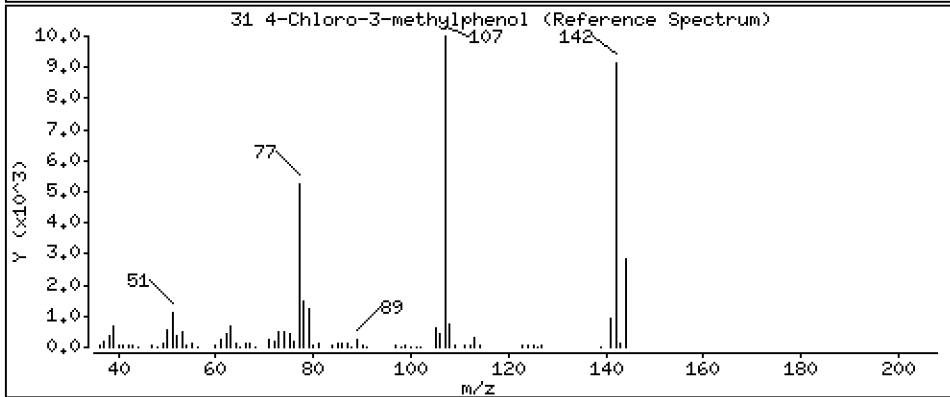
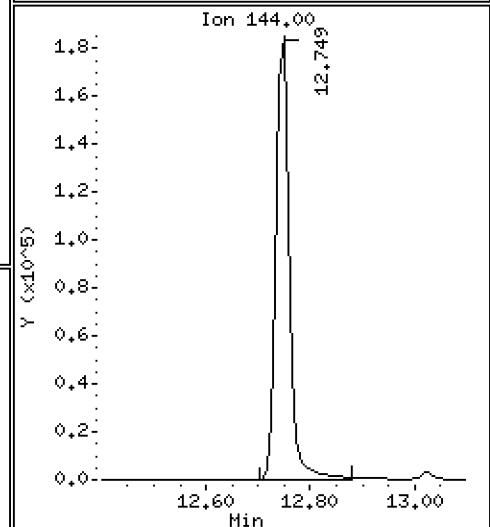
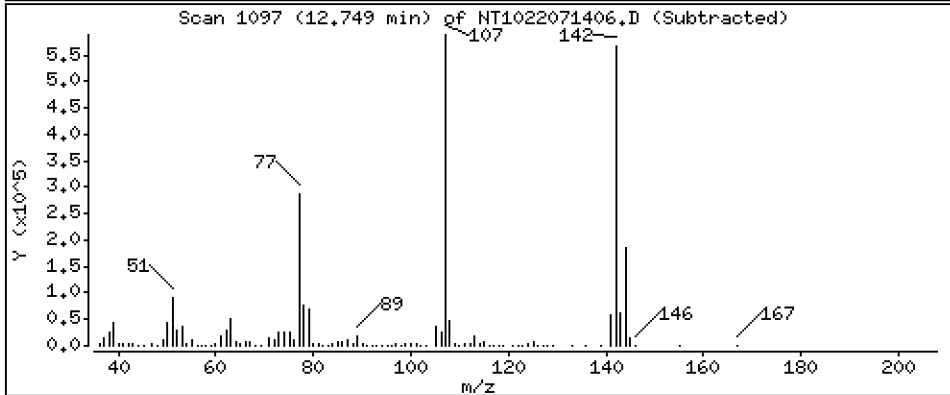
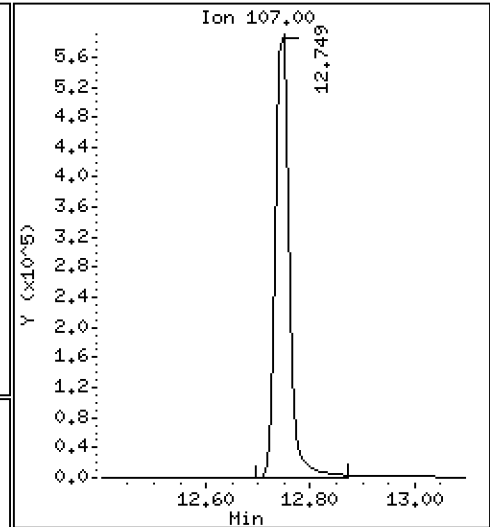
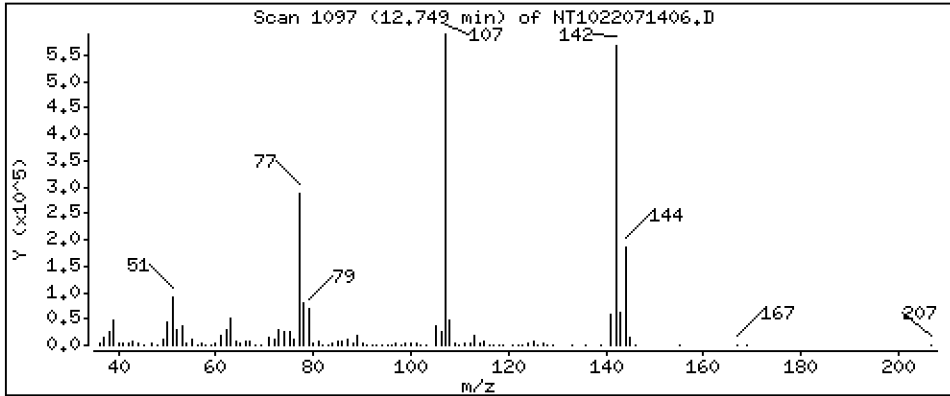
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 16,03 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

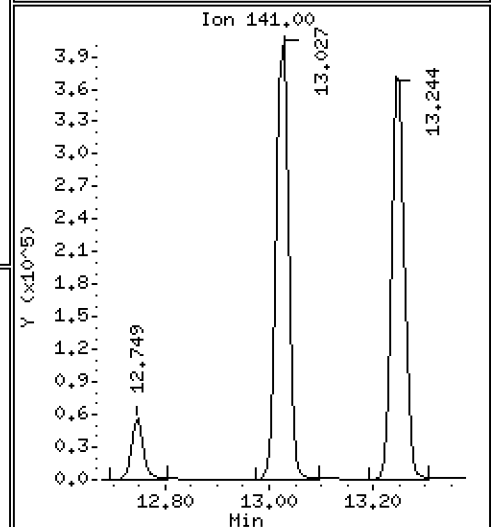
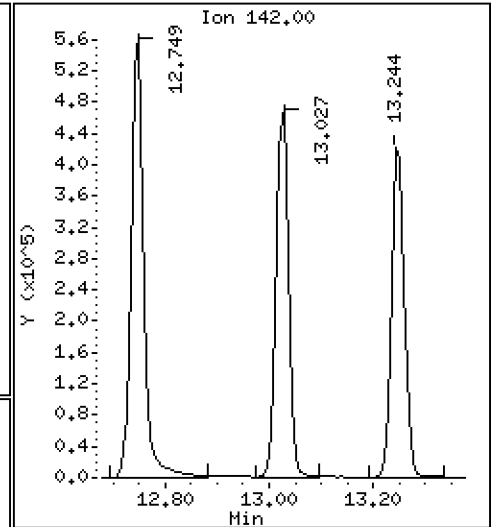
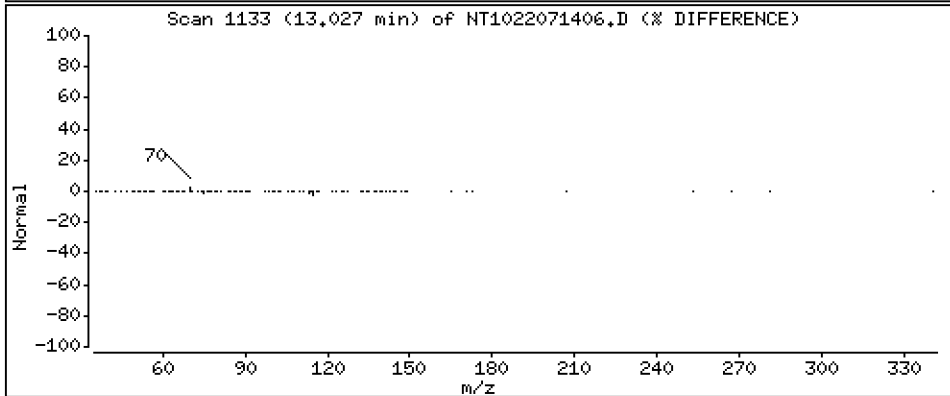
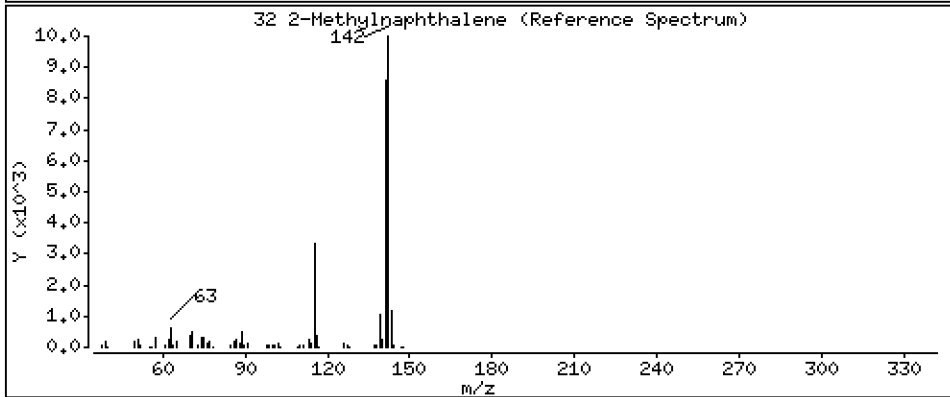
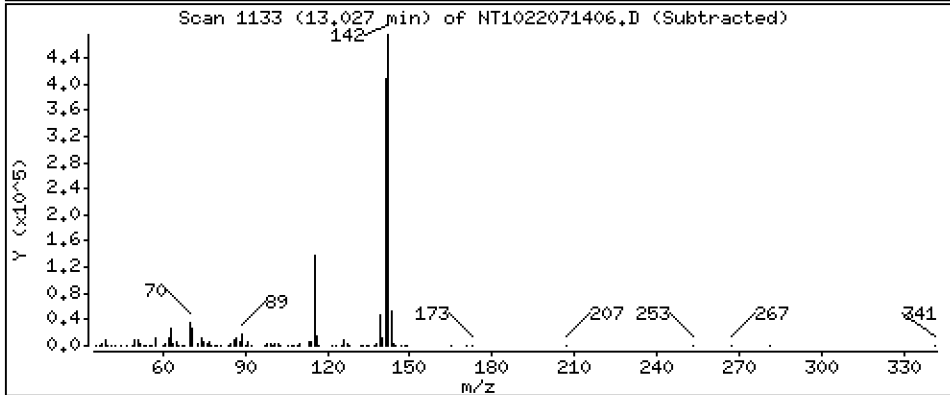
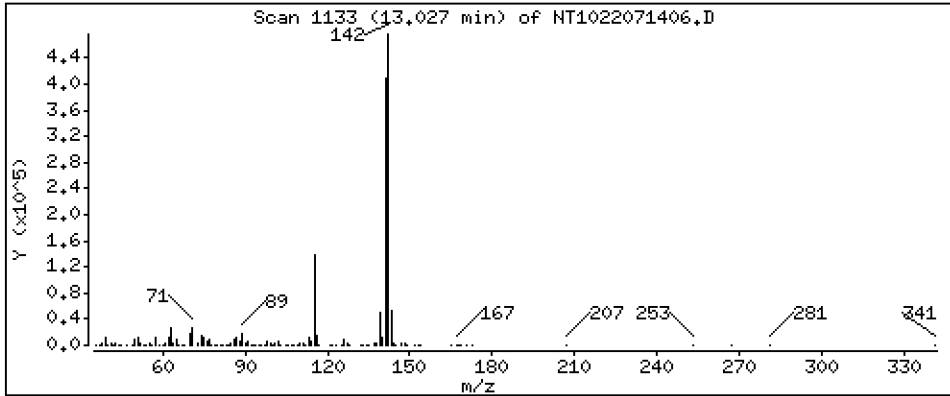
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,591 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

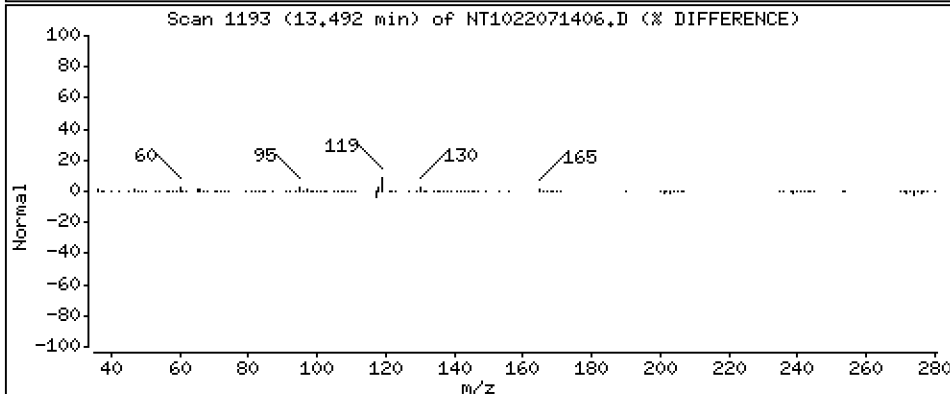
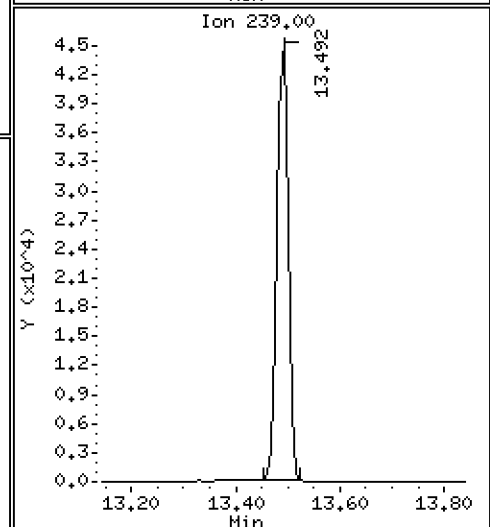
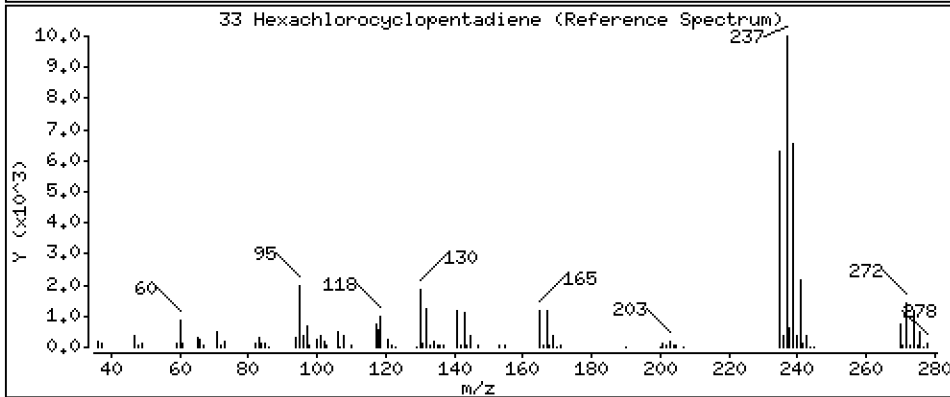
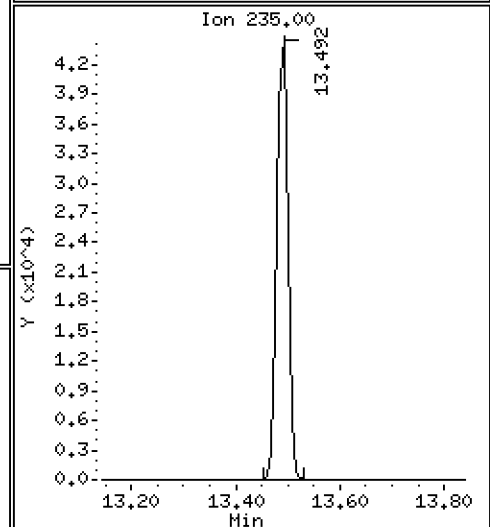
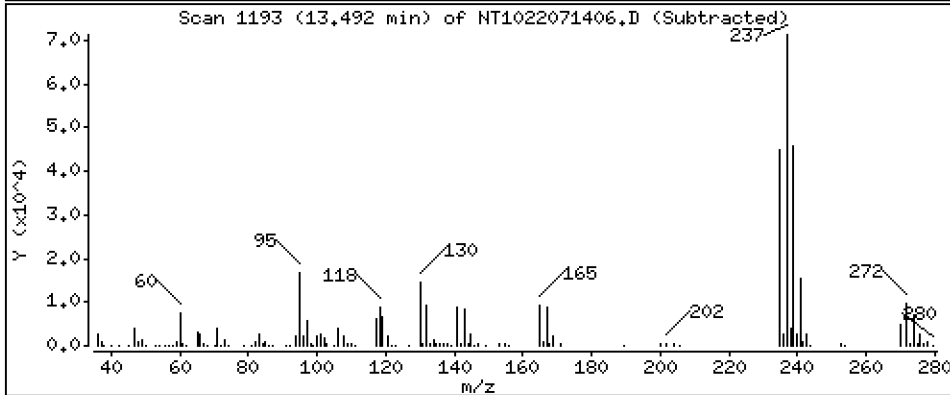
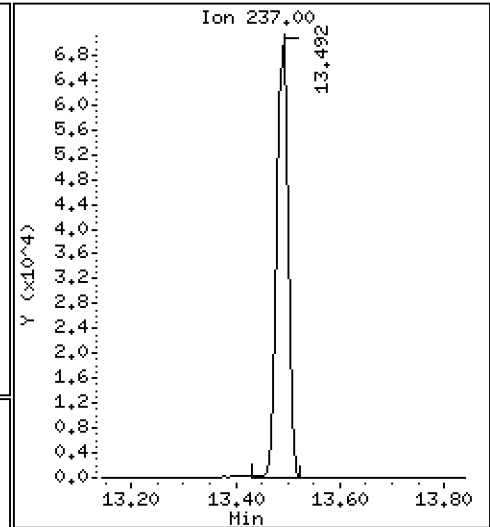
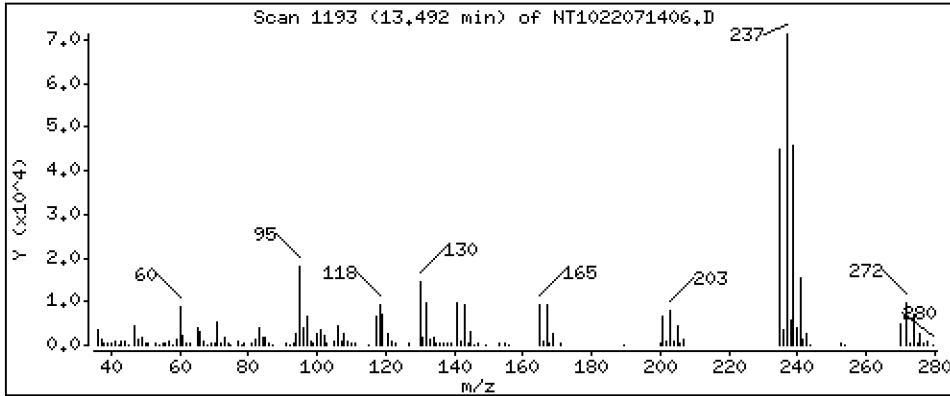
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 4,827 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

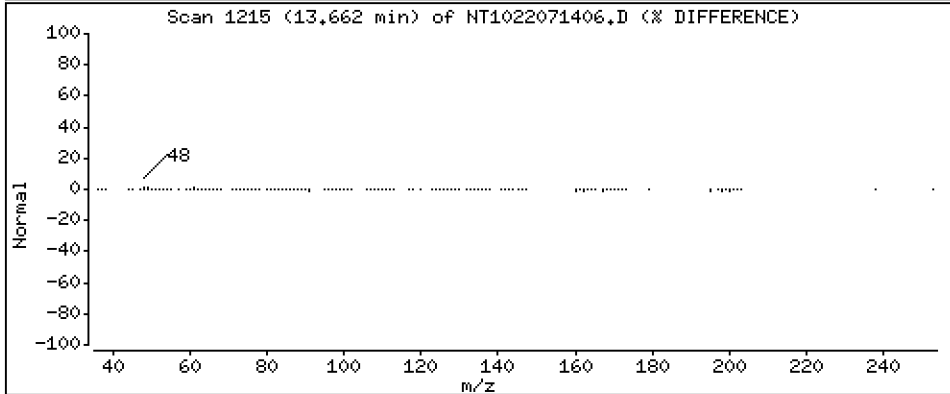
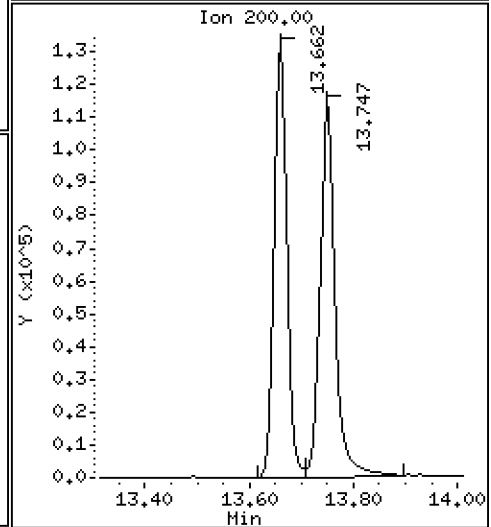
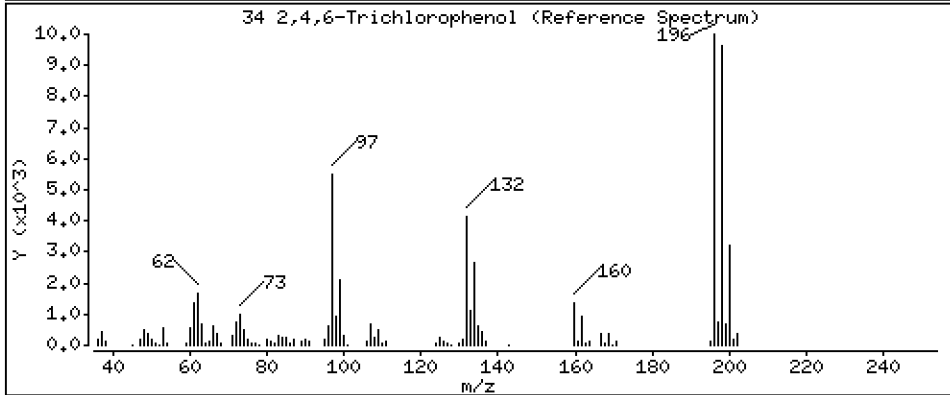
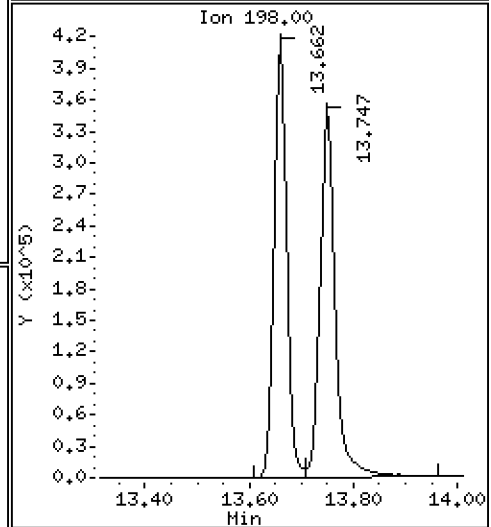
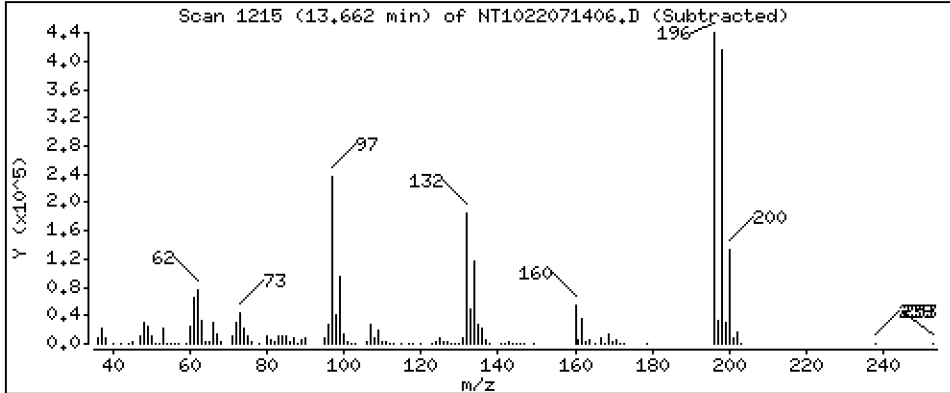
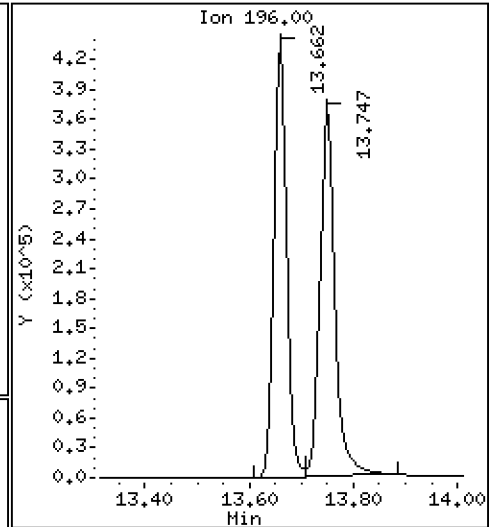
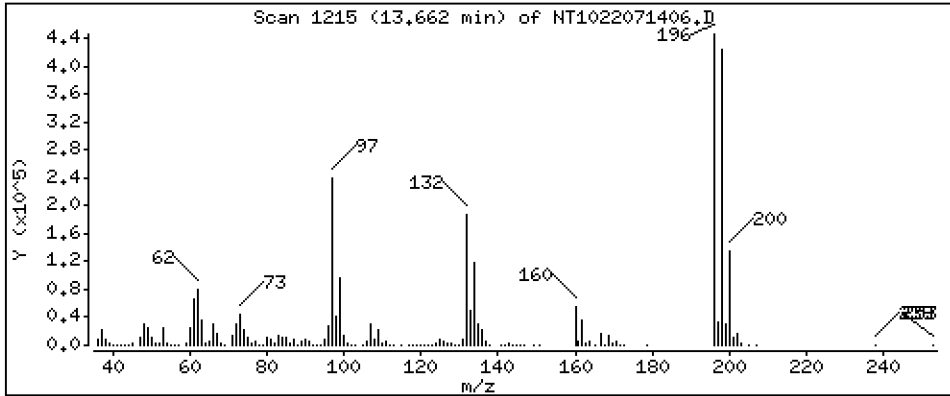
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 17,70 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

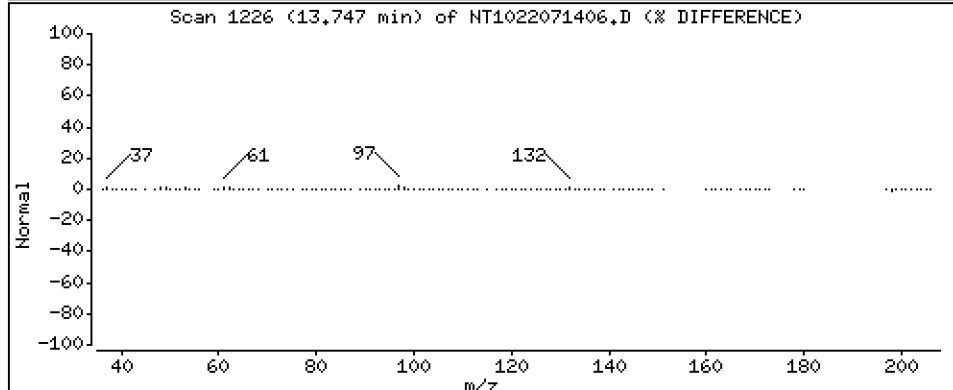
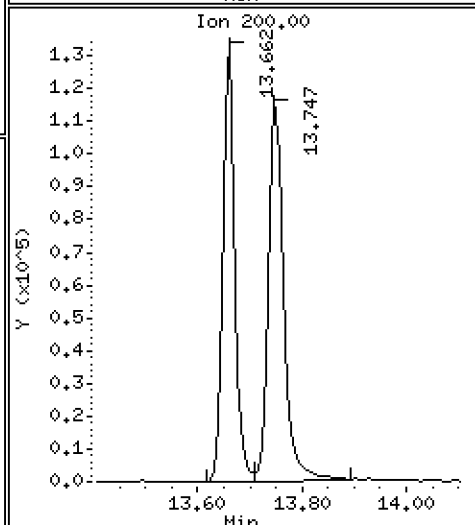
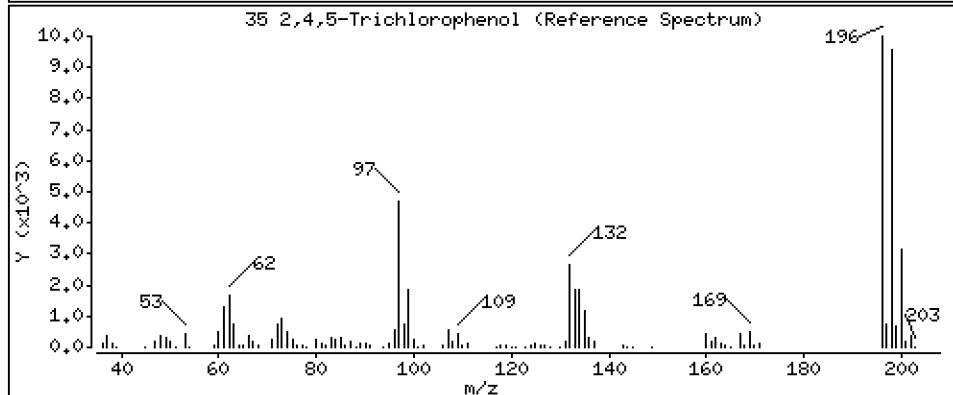
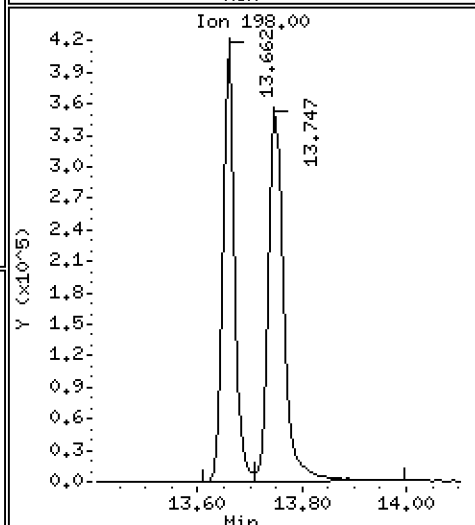
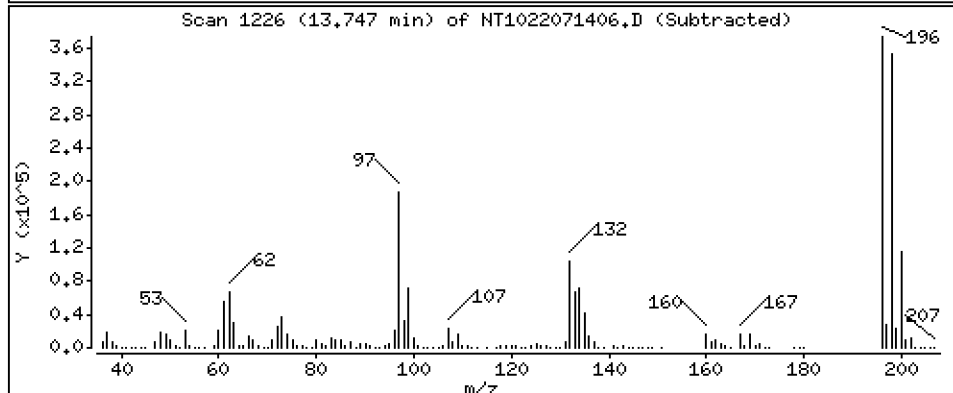
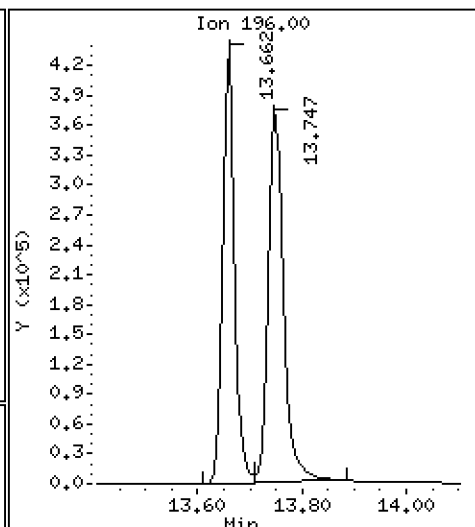
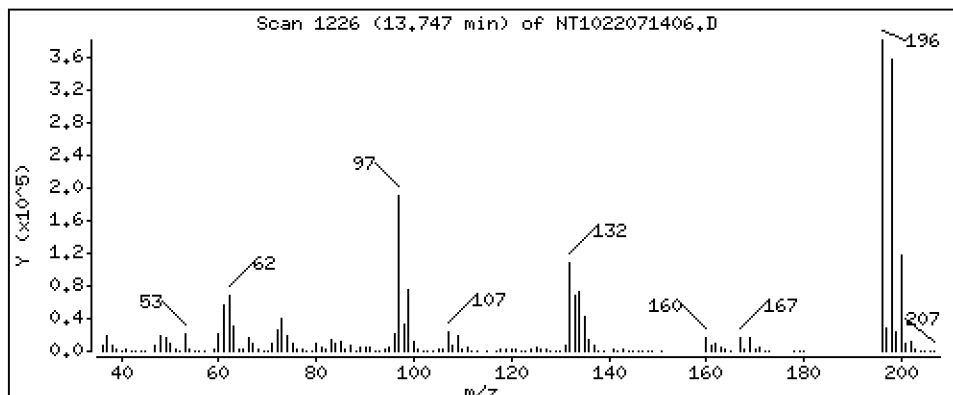
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 15,42 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

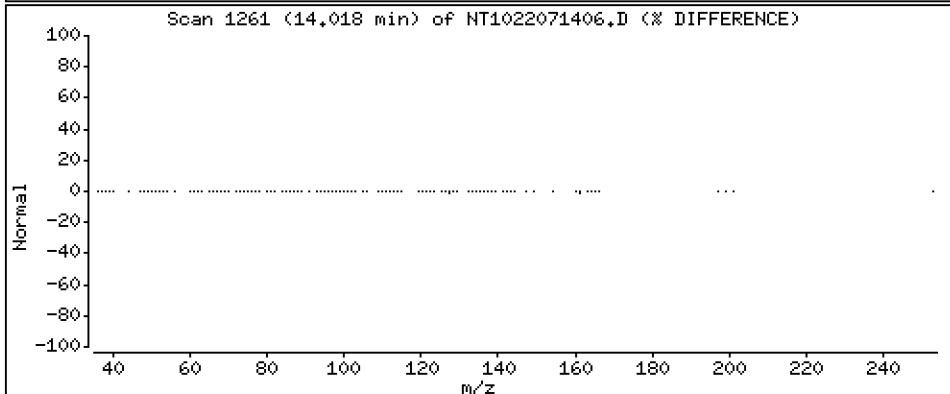
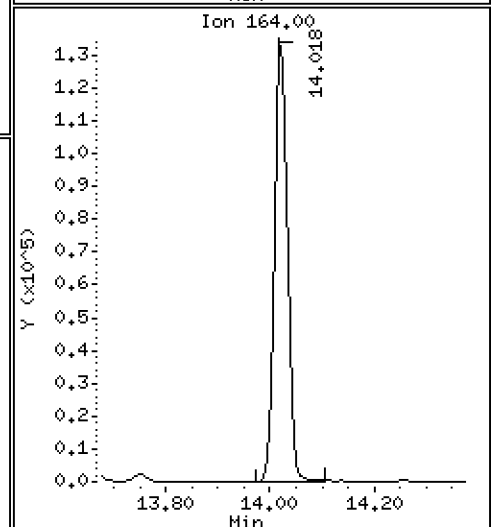
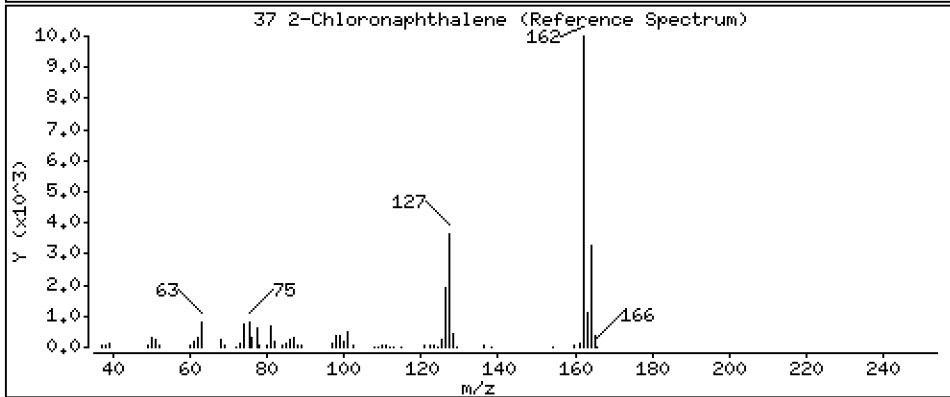
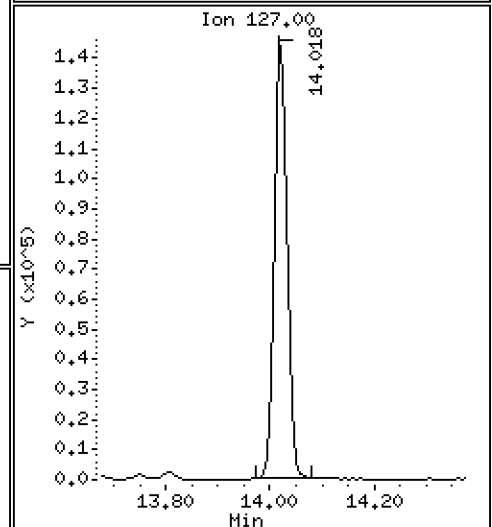
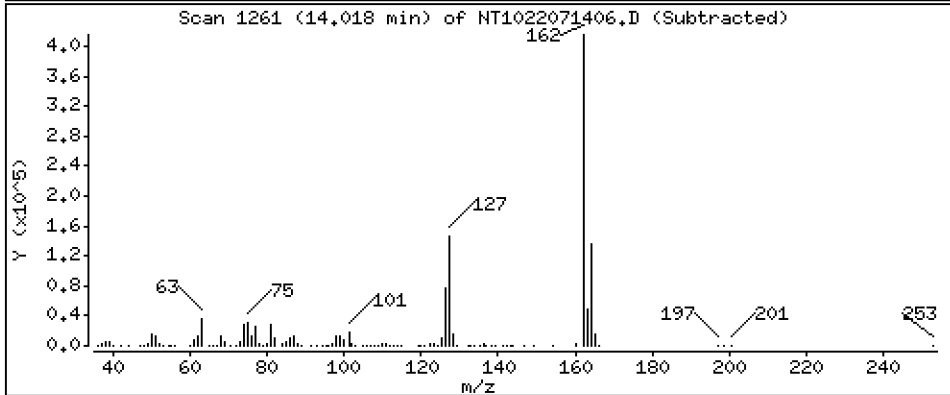
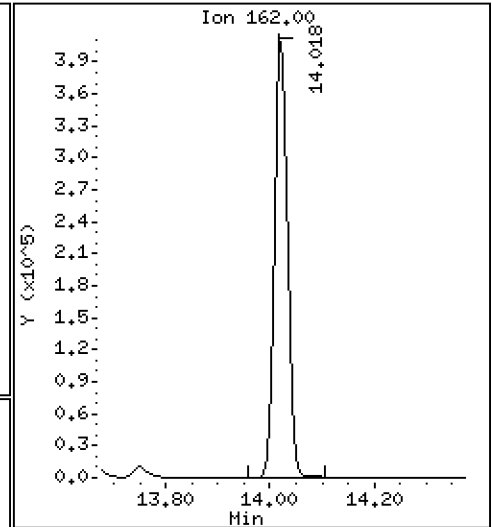
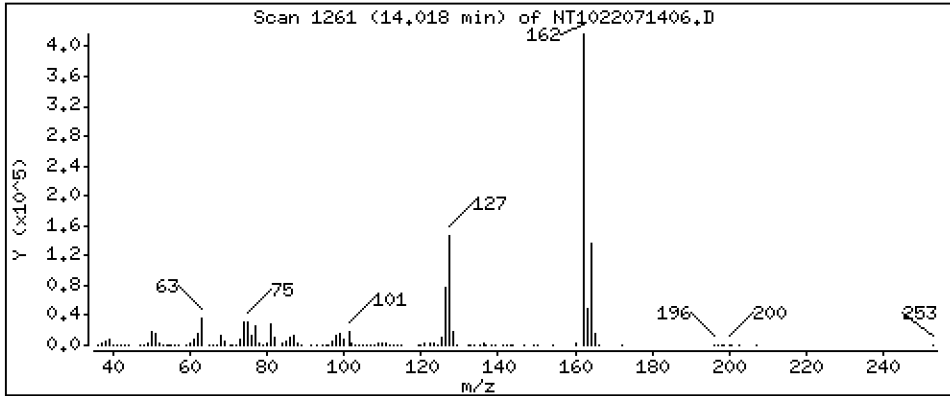
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,859 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

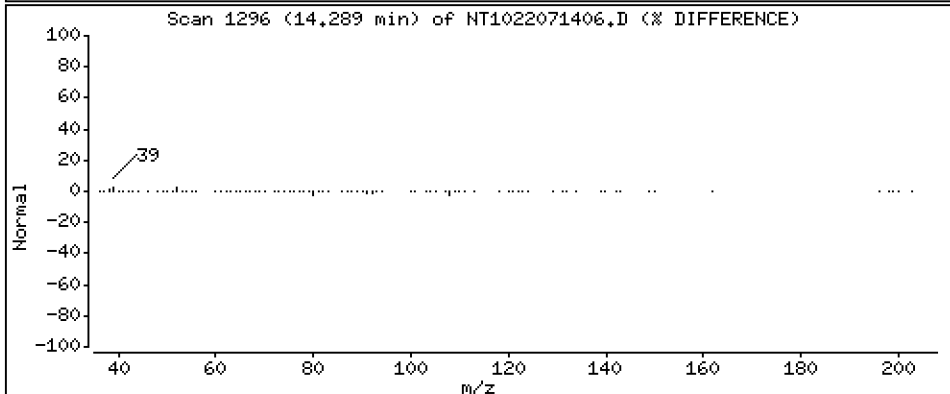
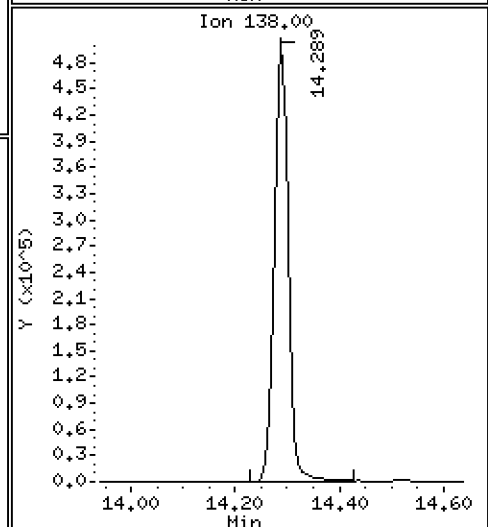
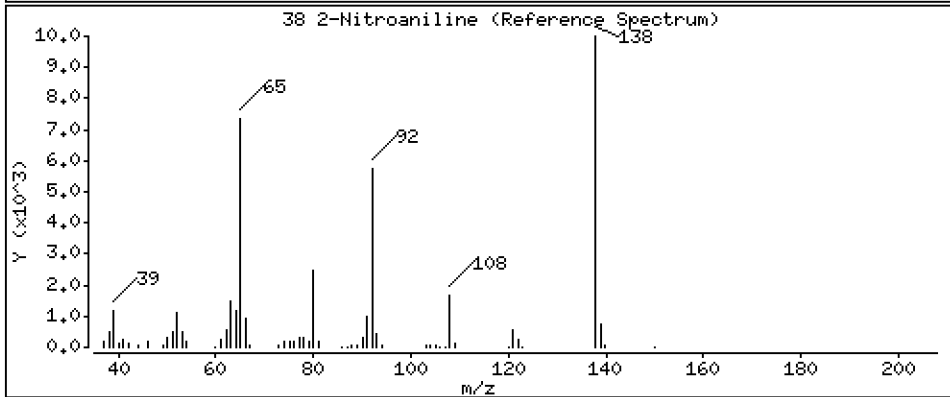
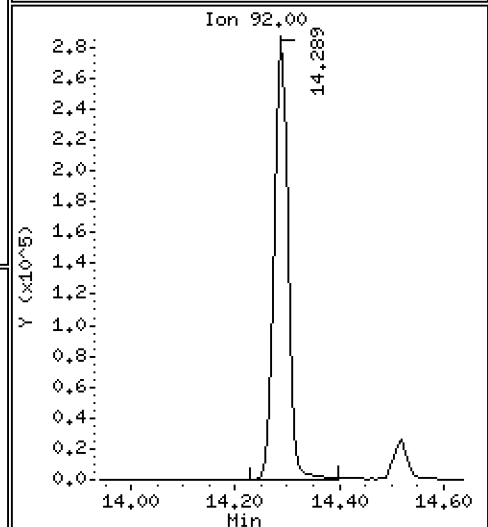
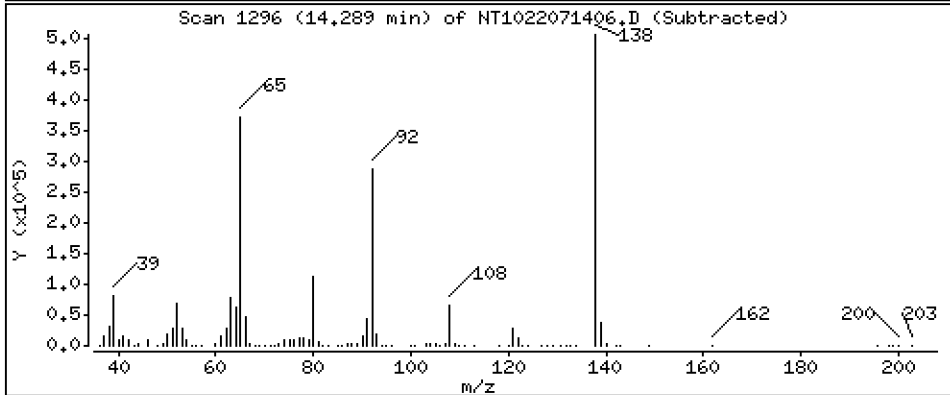
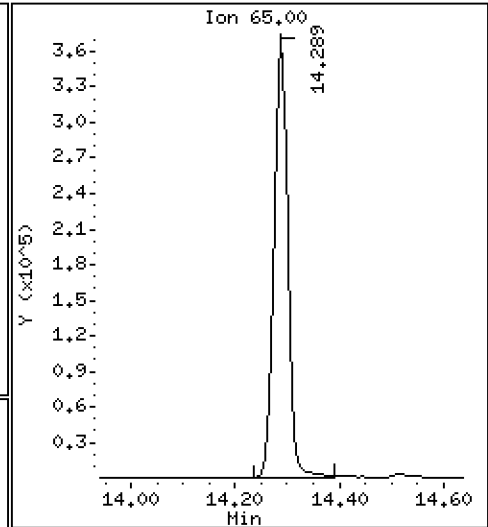
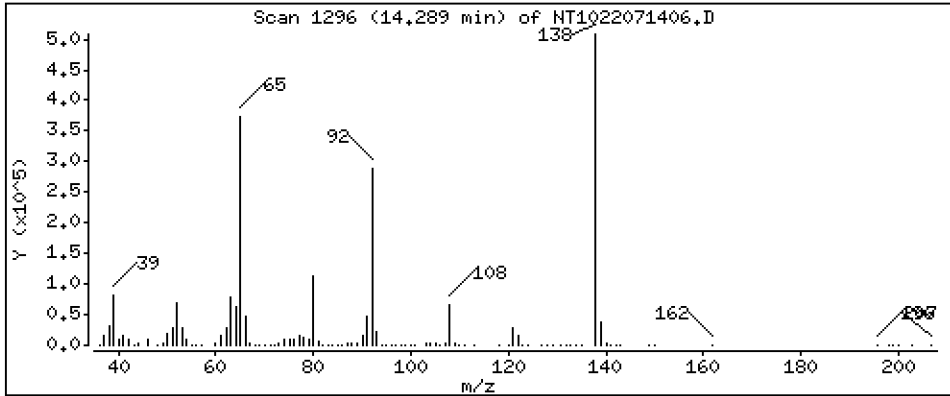
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 17,13 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

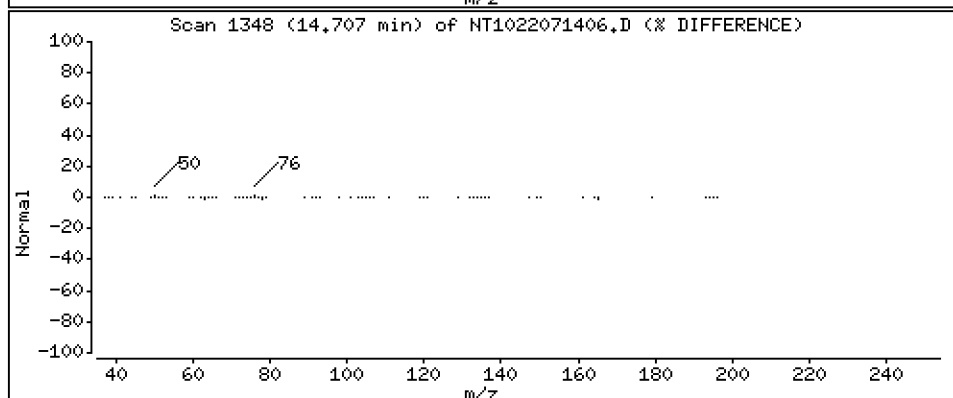
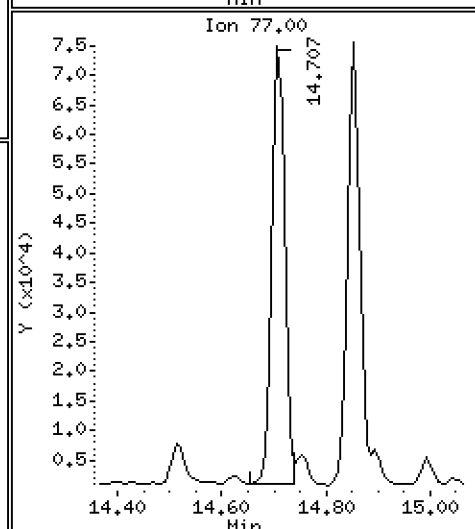
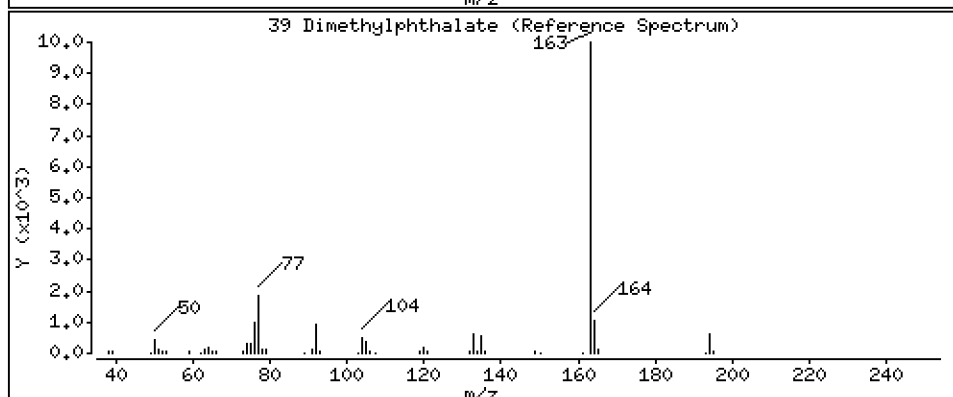
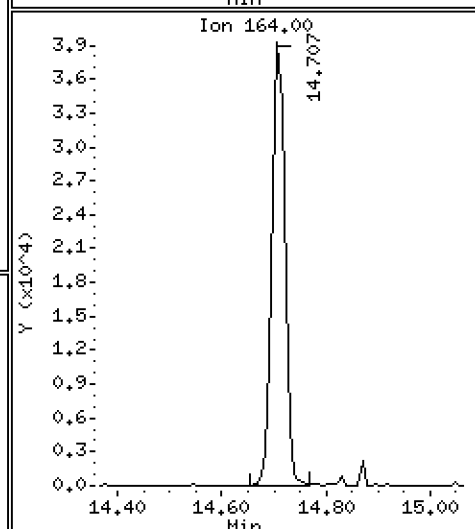
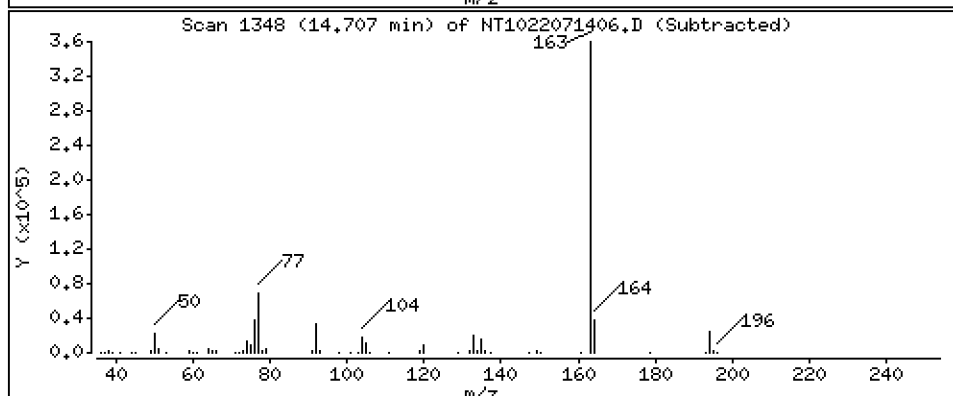
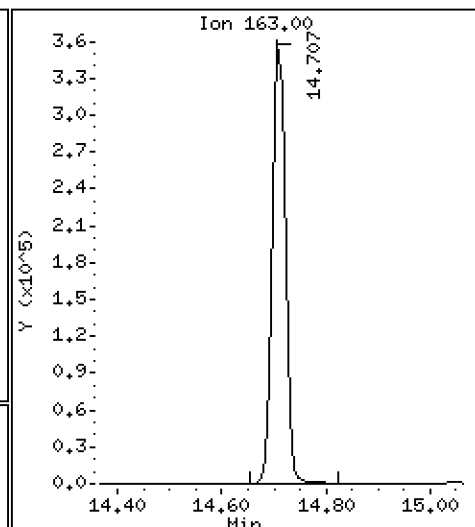
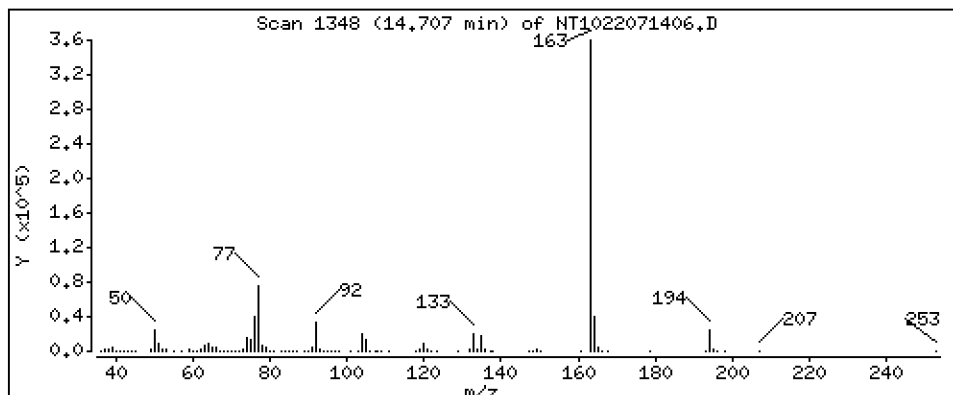
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,846 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

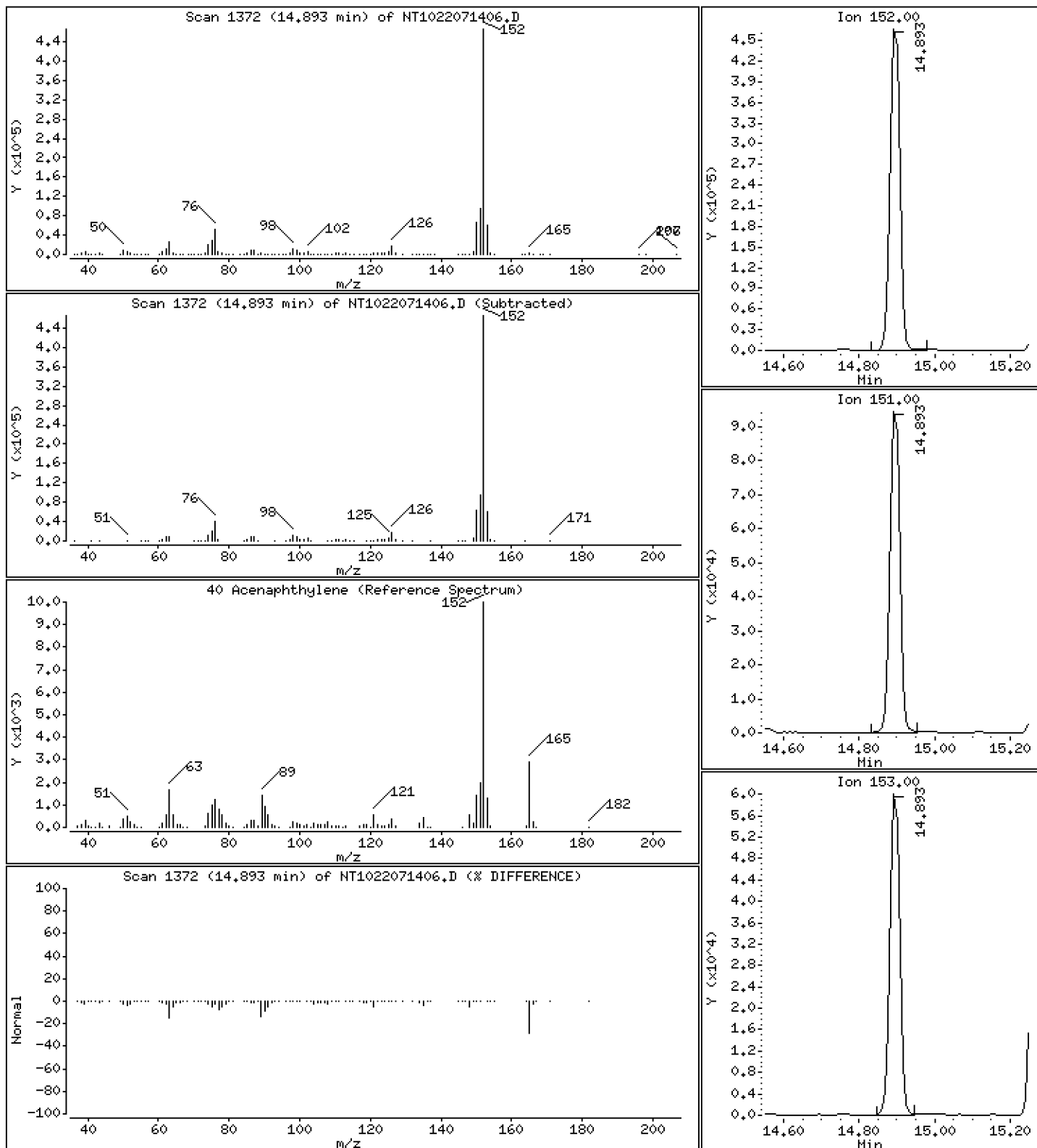
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 3,905 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

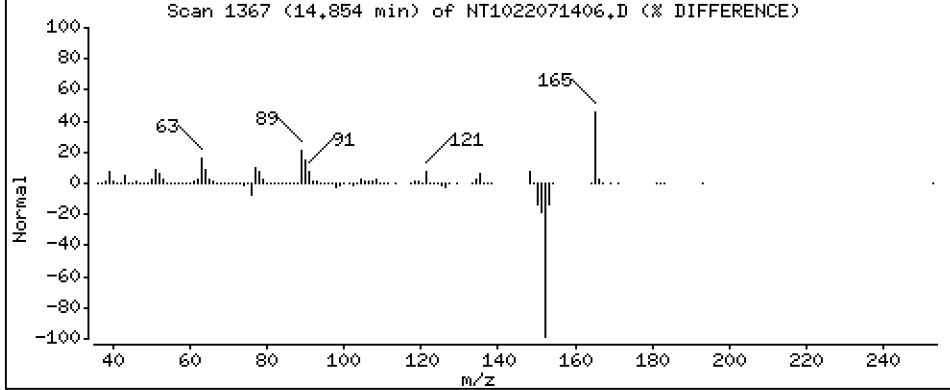
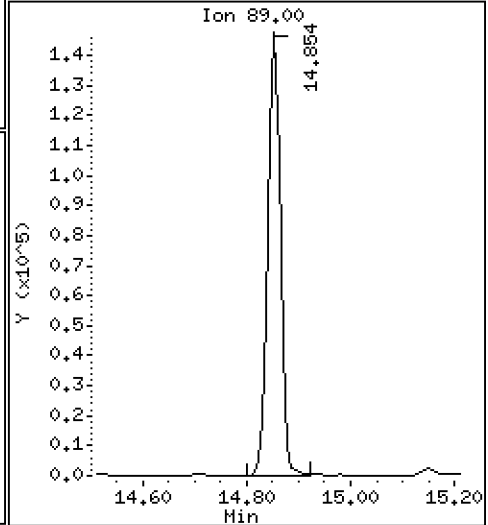
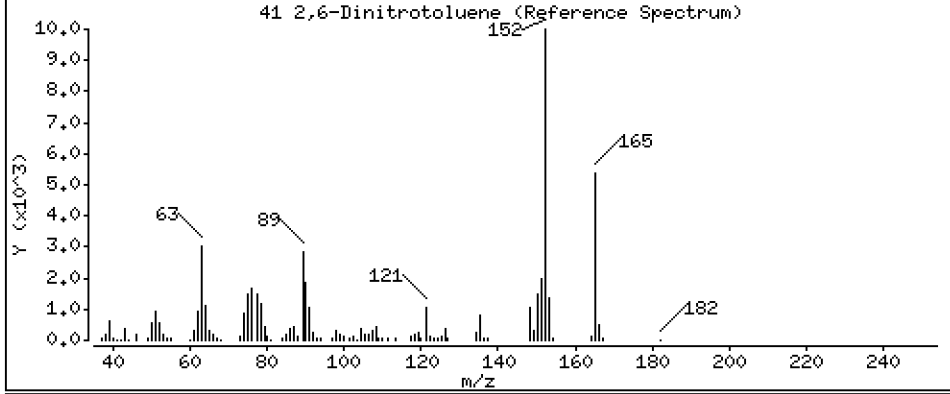
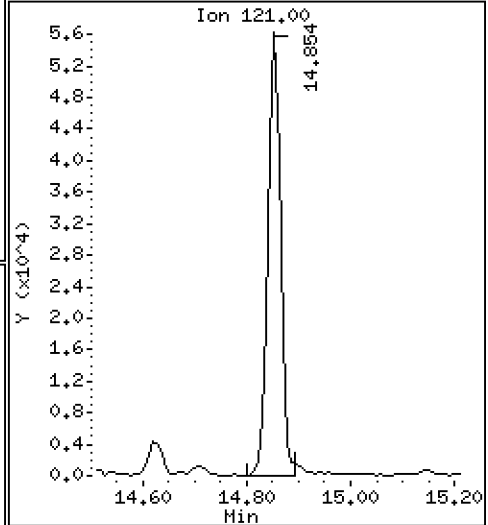
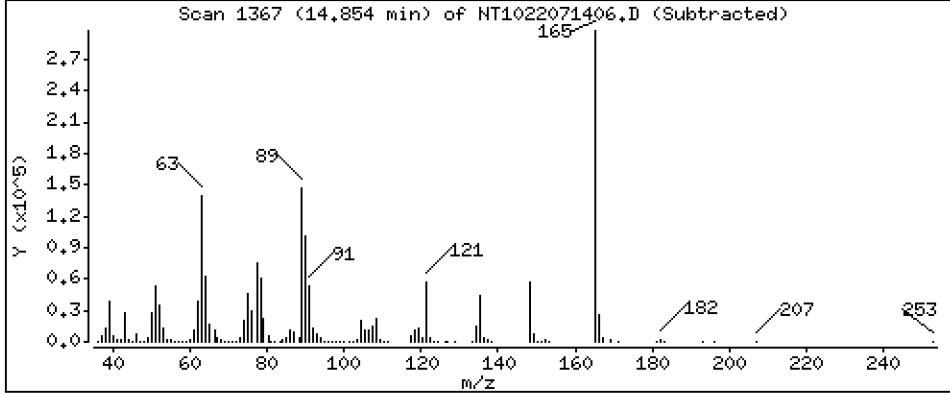
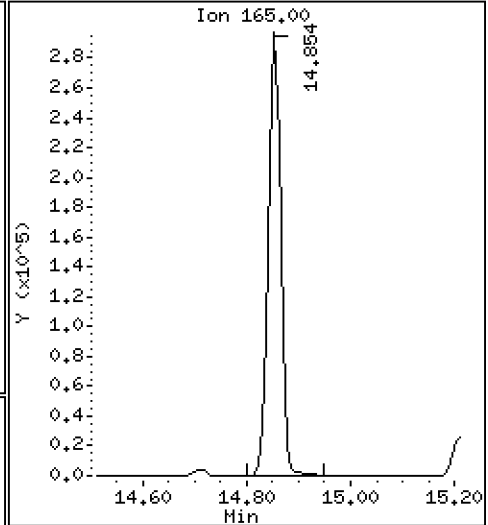
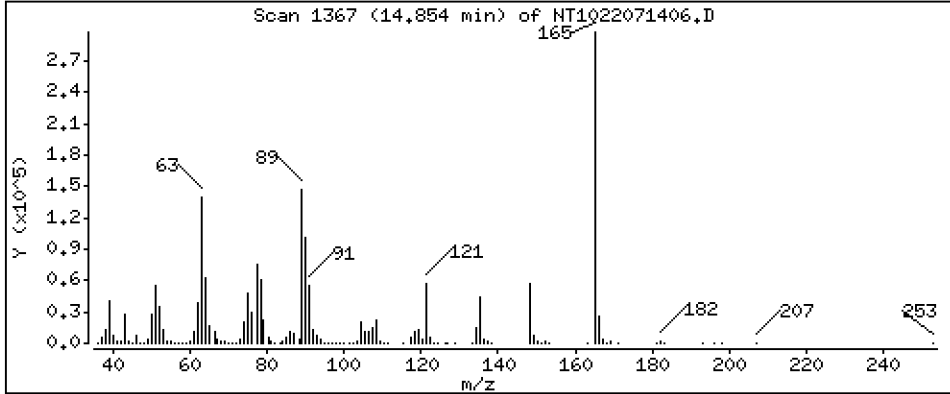
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 16,24 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

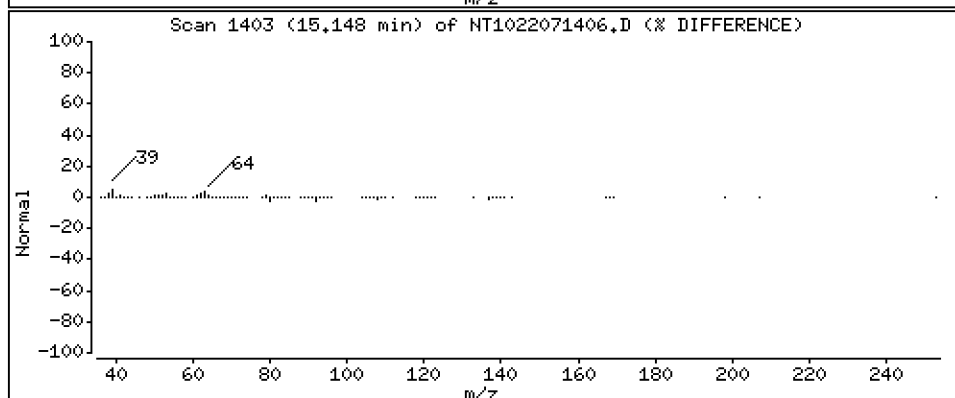
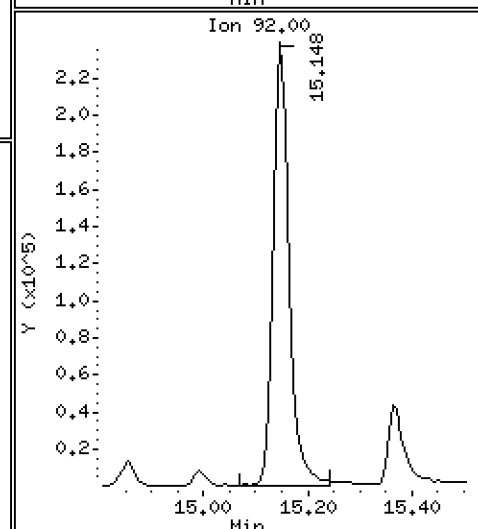
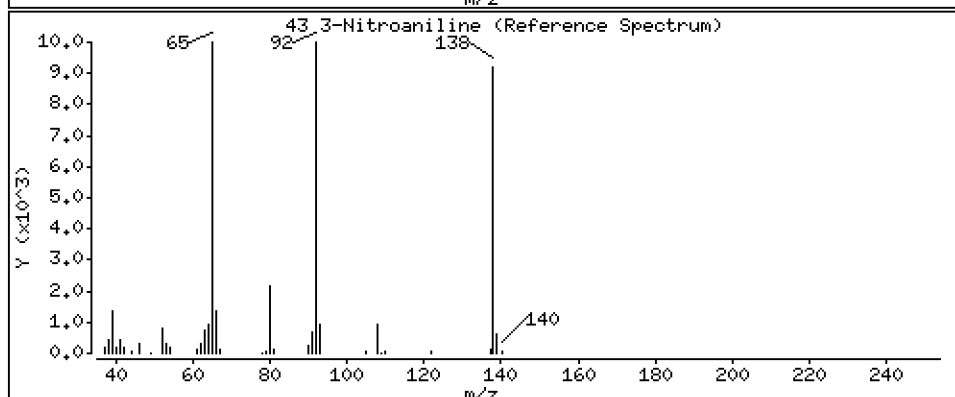
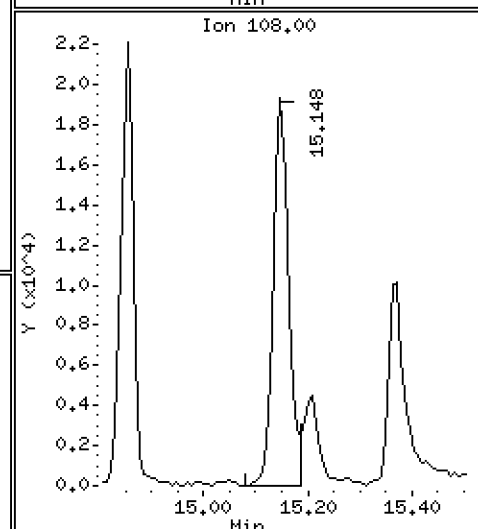
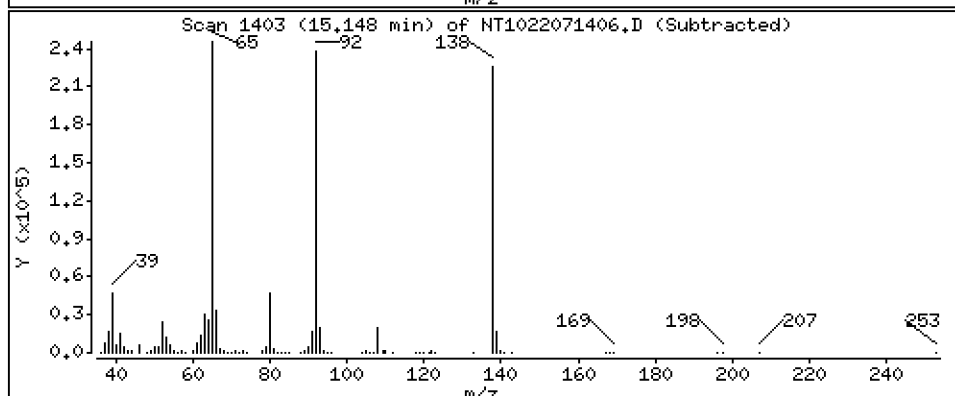
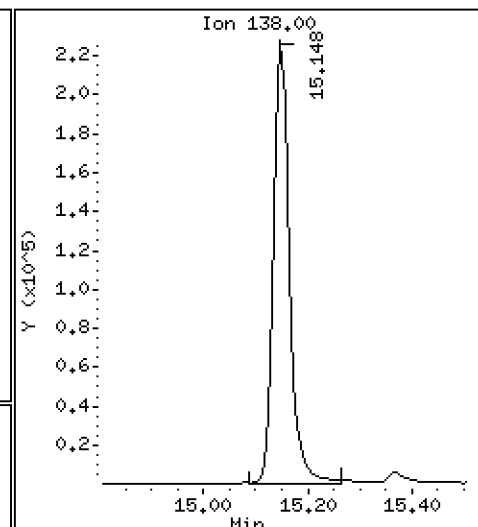
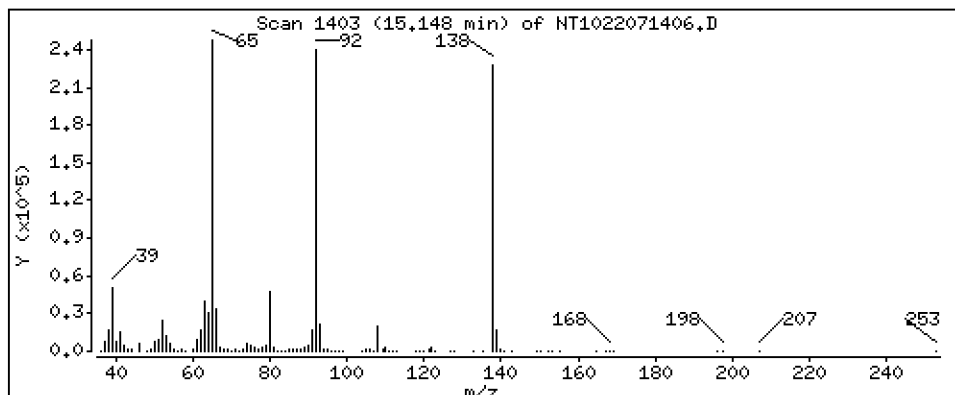
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 13,65 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

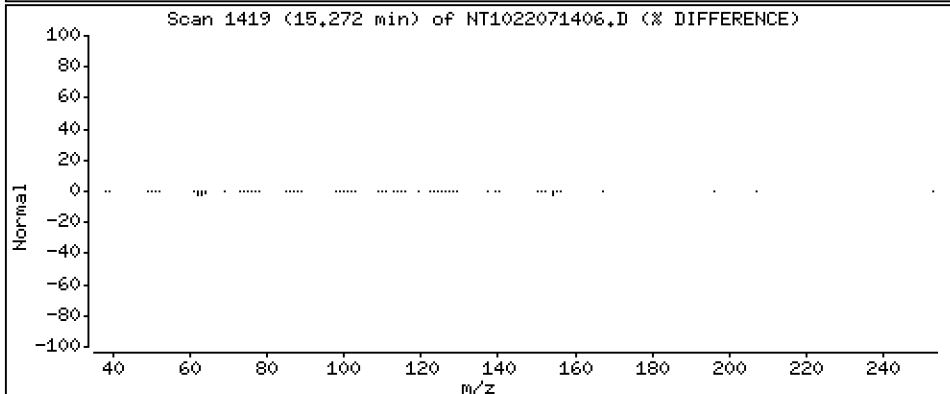
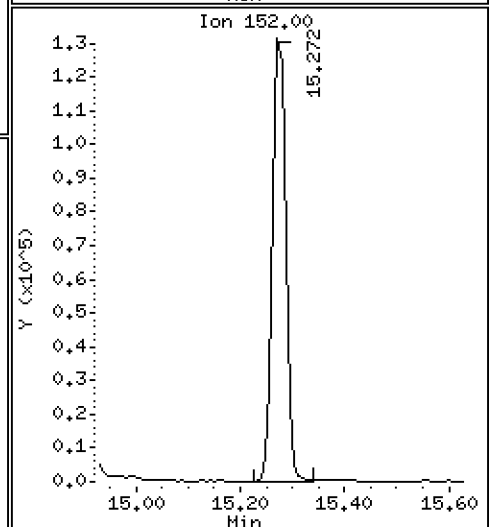
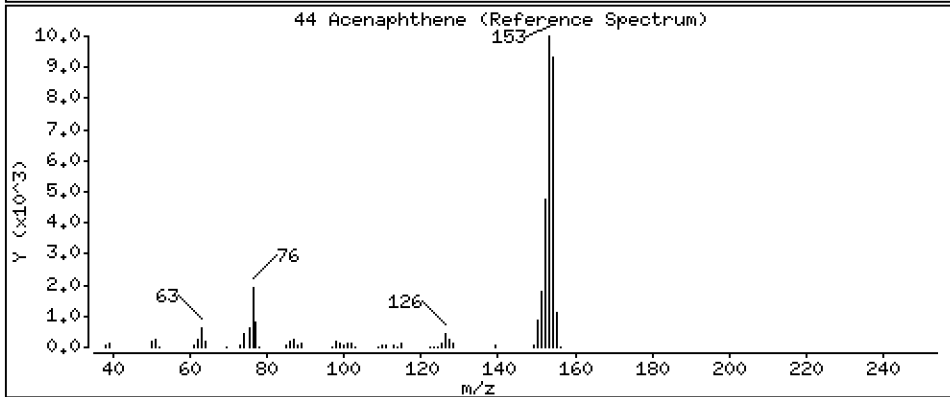
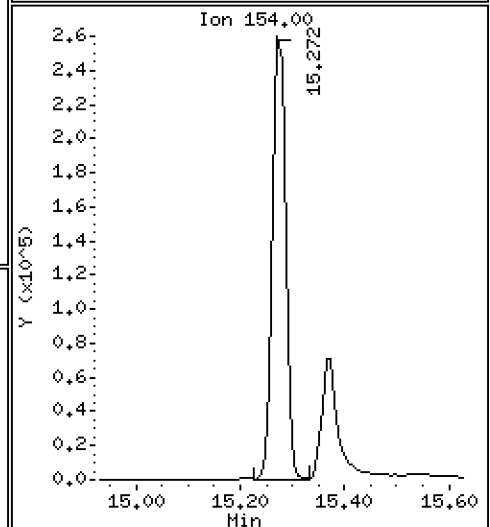
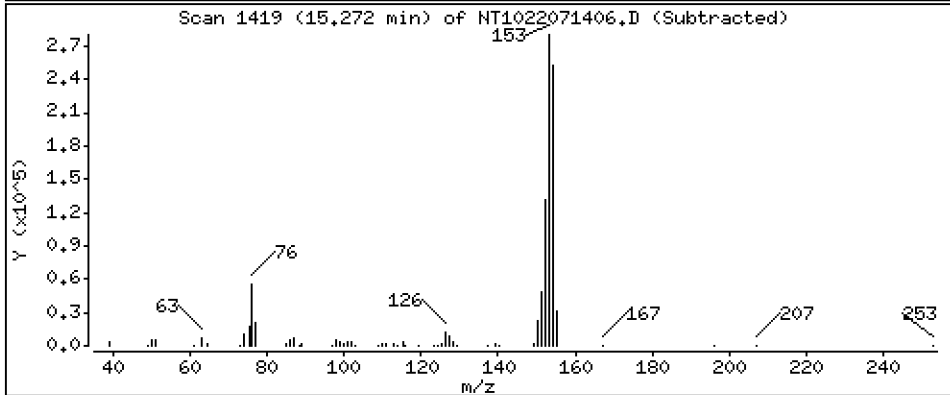
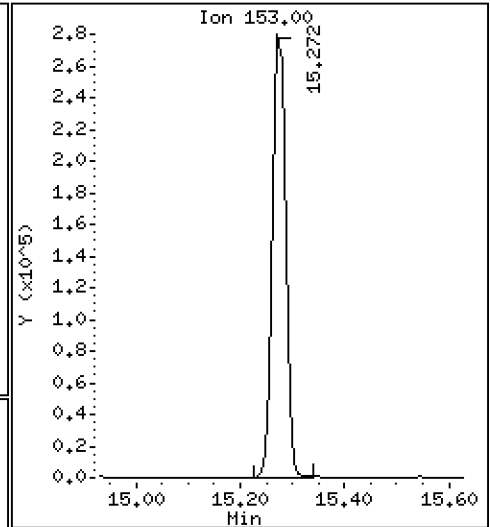
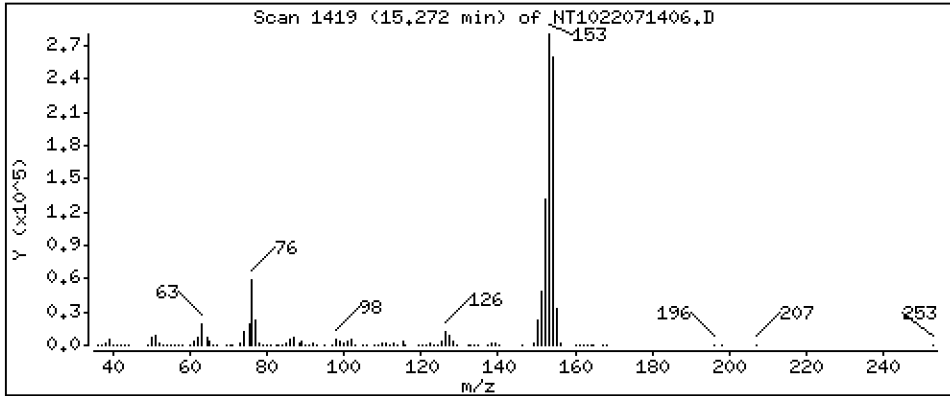
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,585 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

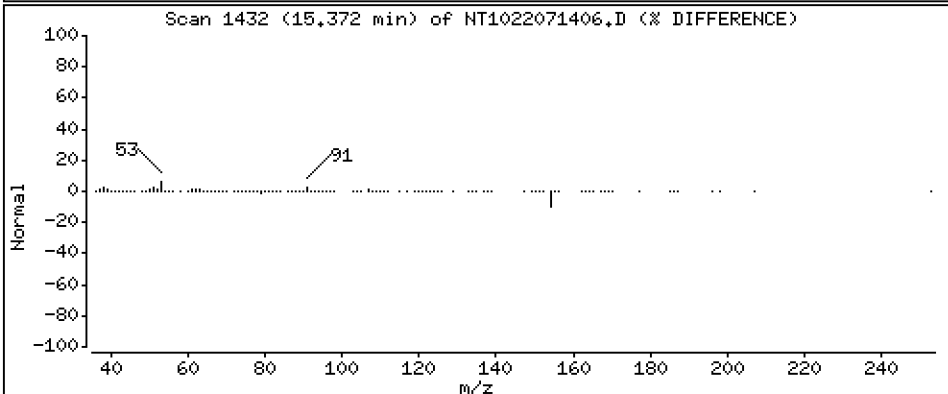
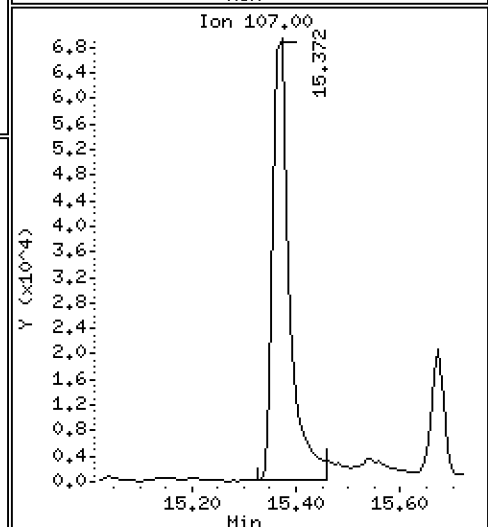
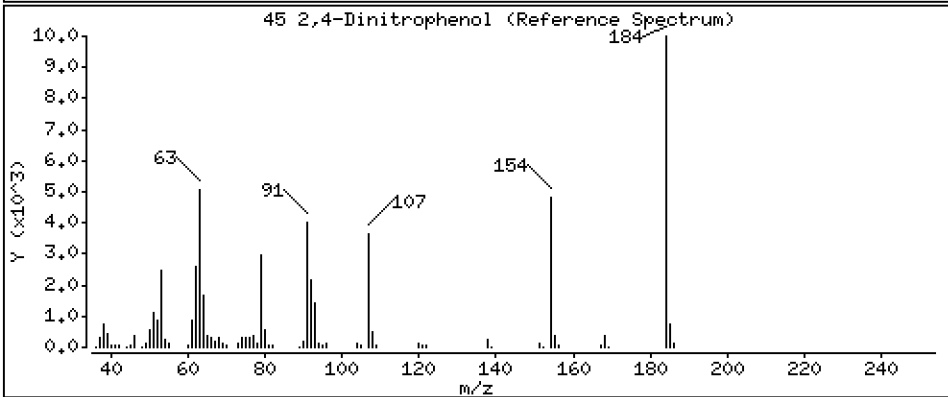
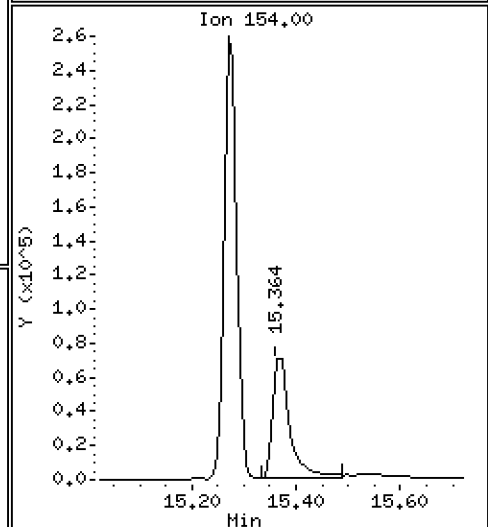
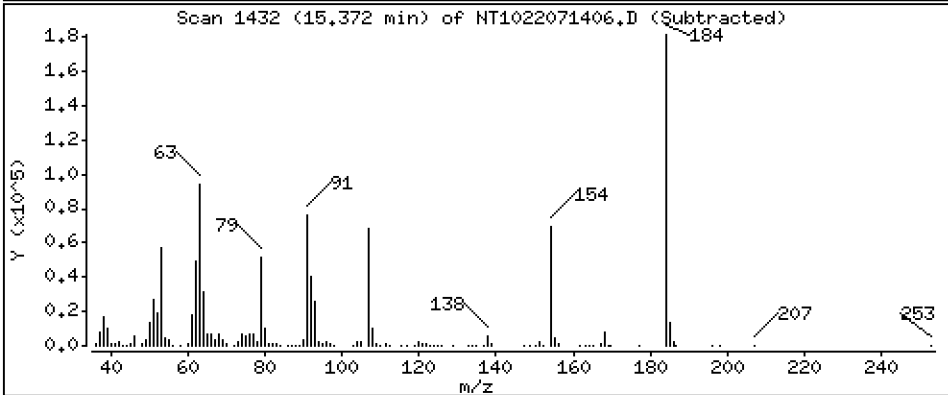
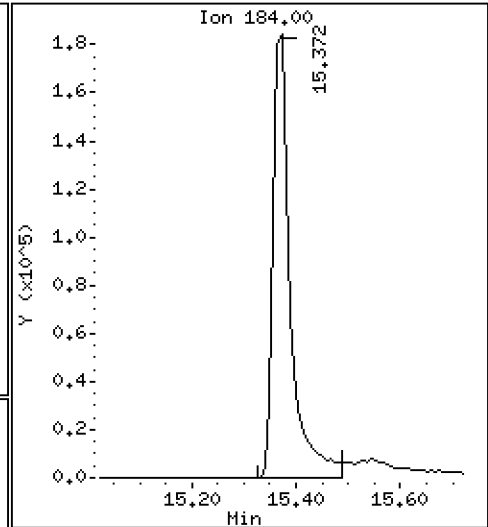
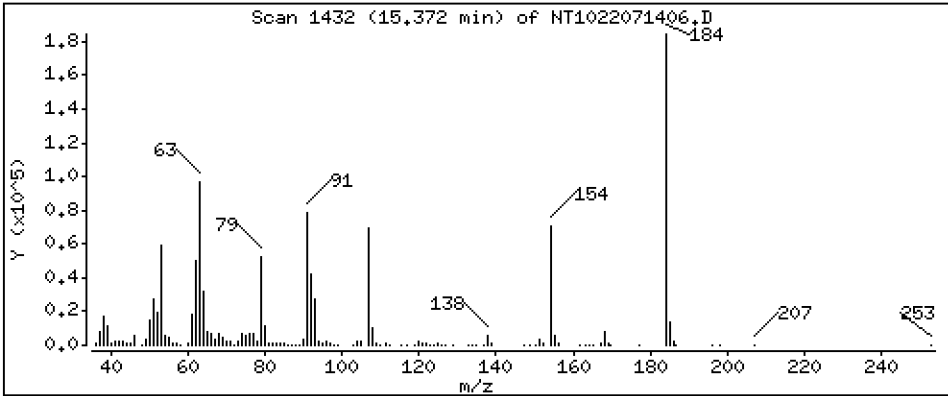
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 30,09 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

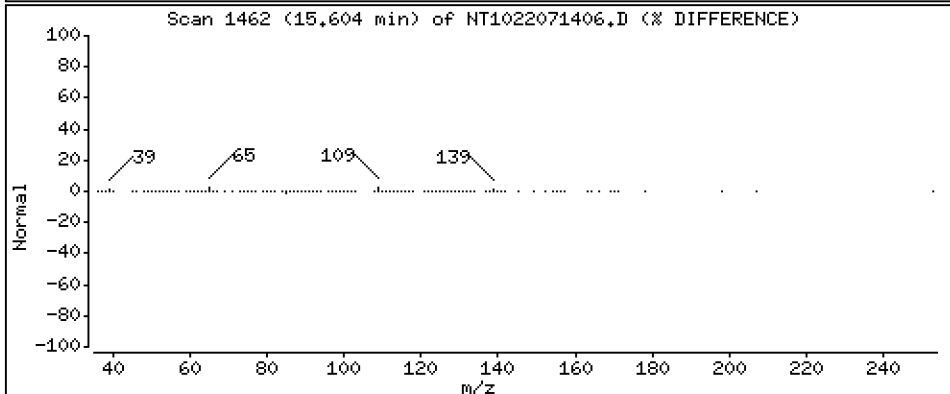
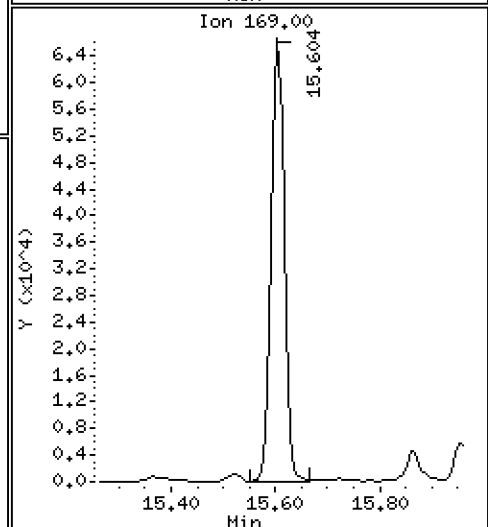
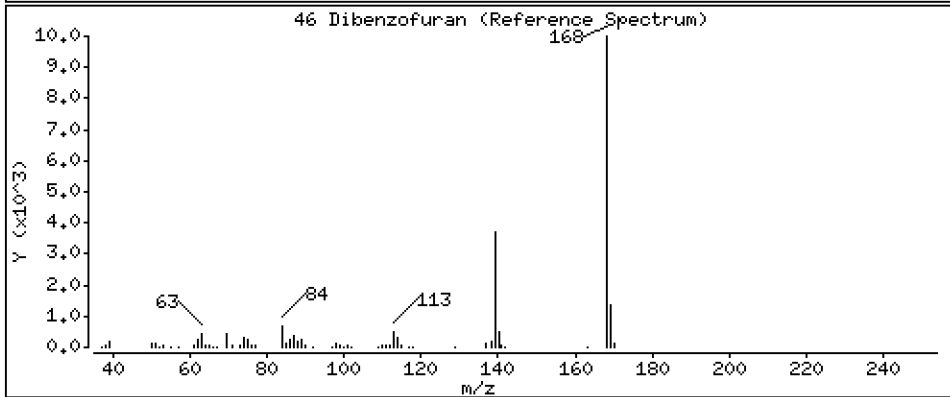
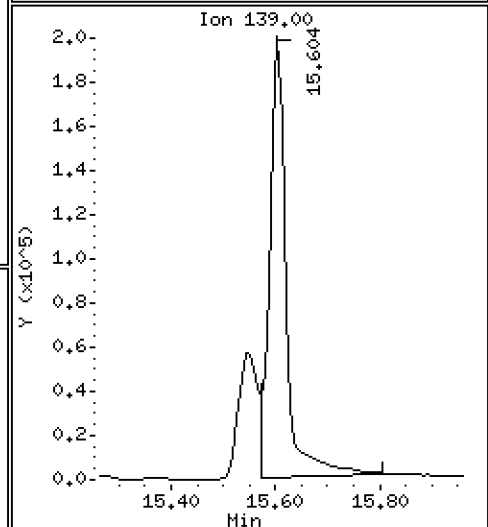
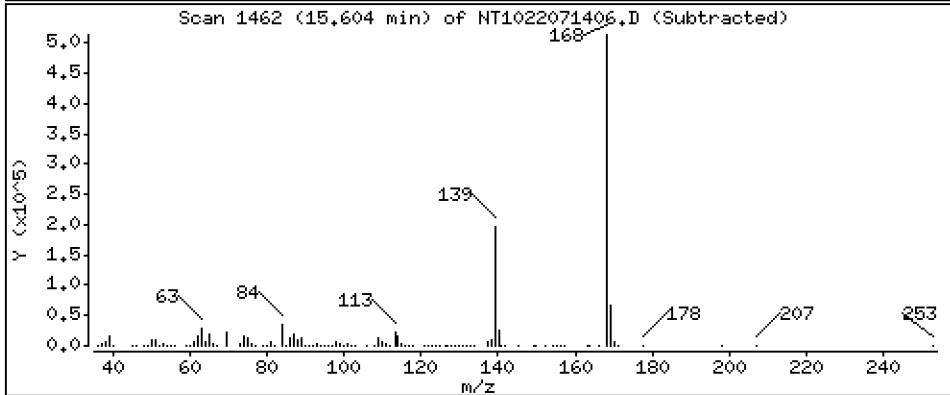
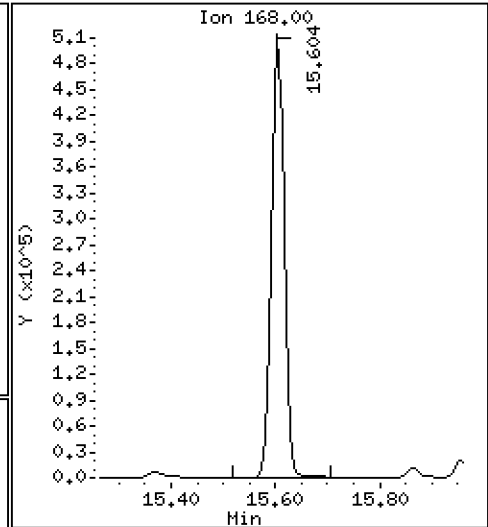
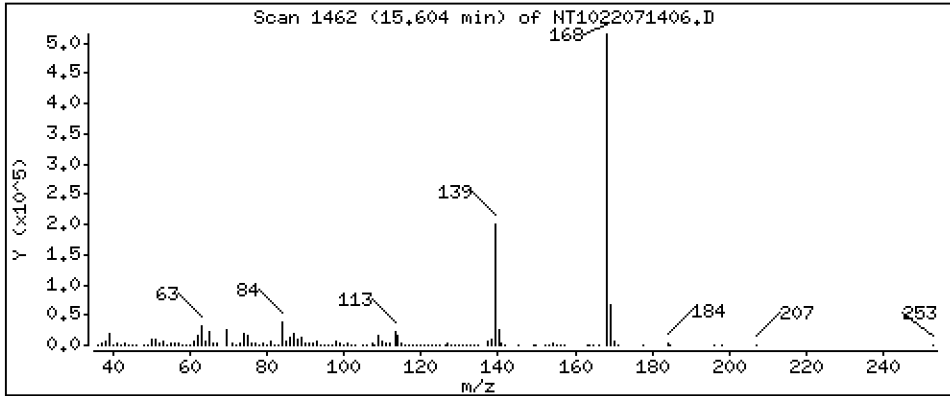
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 5,013 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

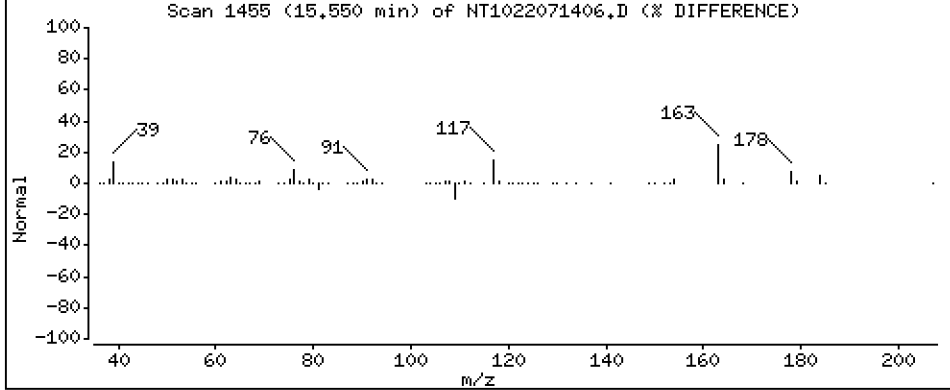
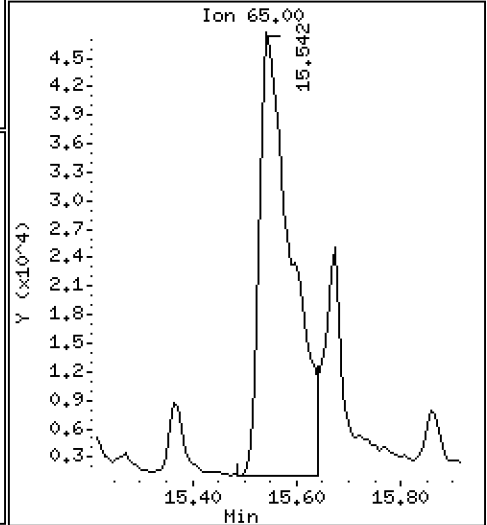
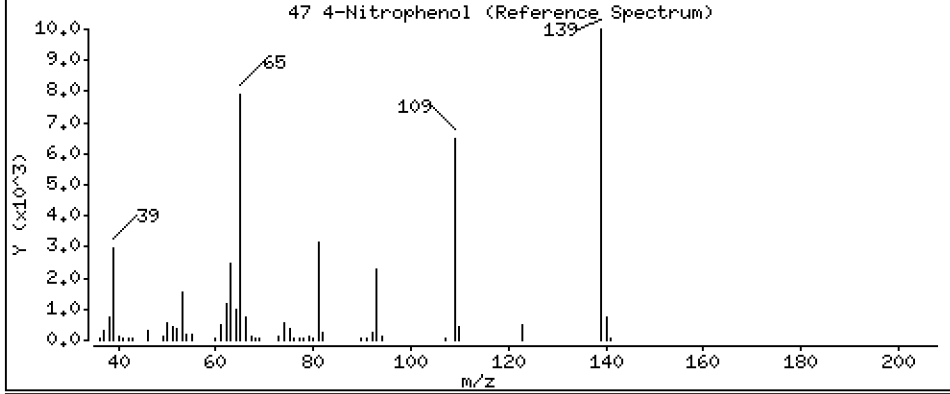
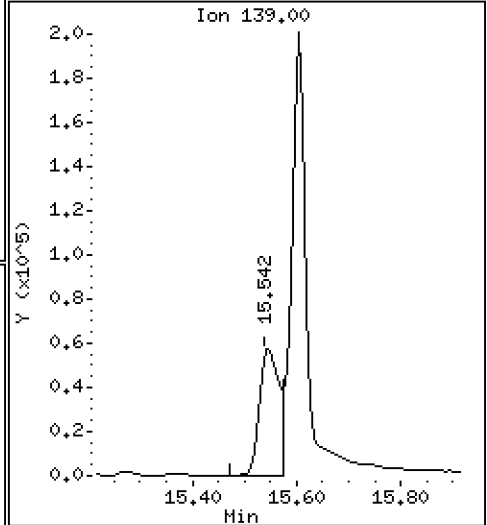
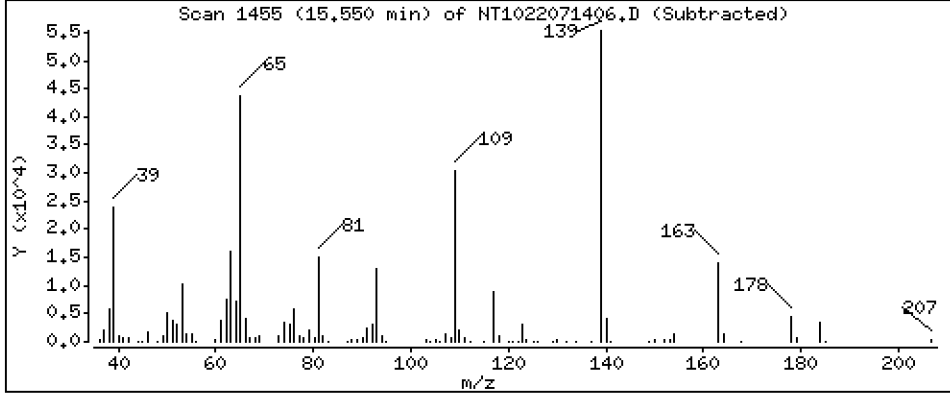
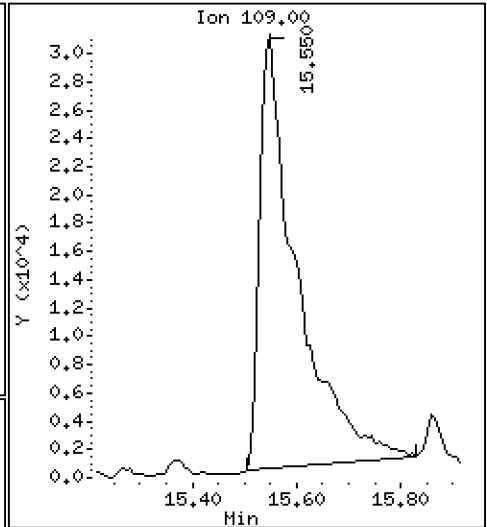
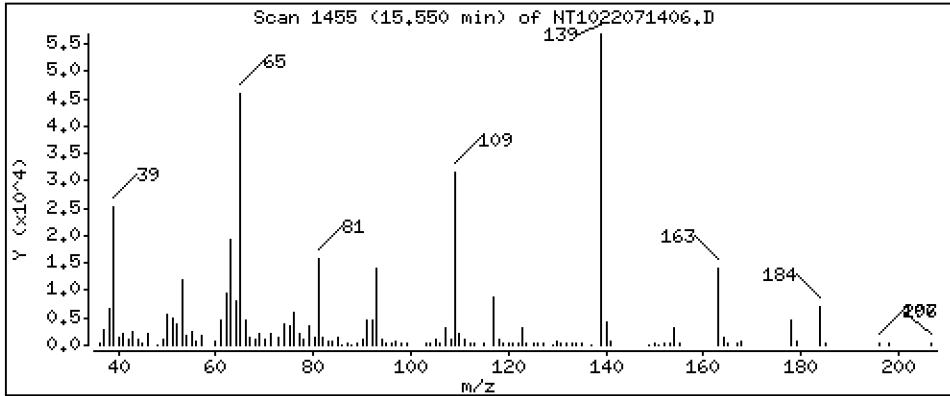
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 13,34 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

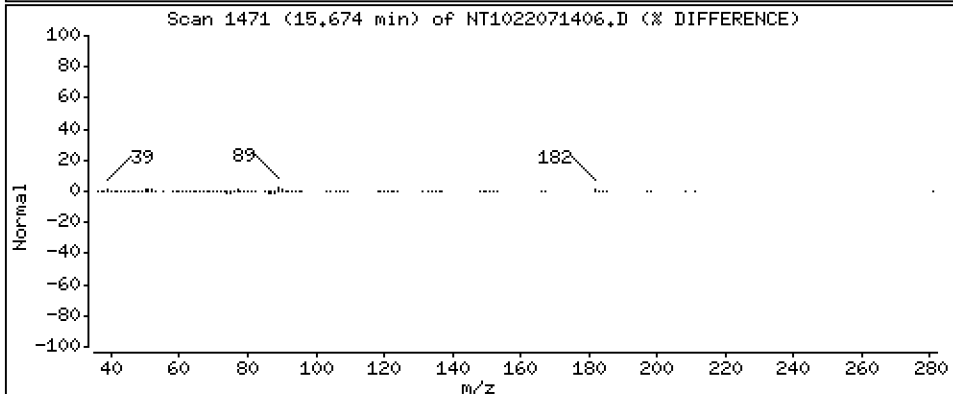
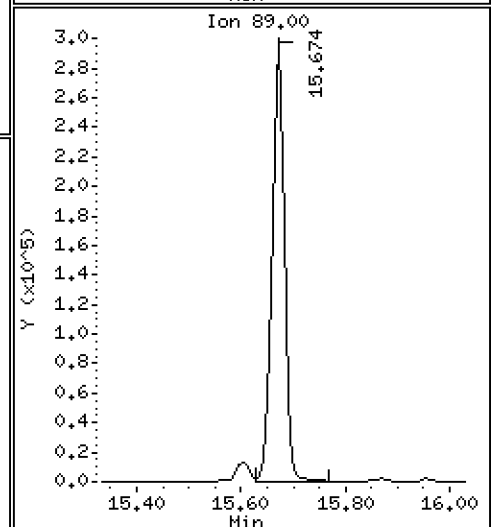
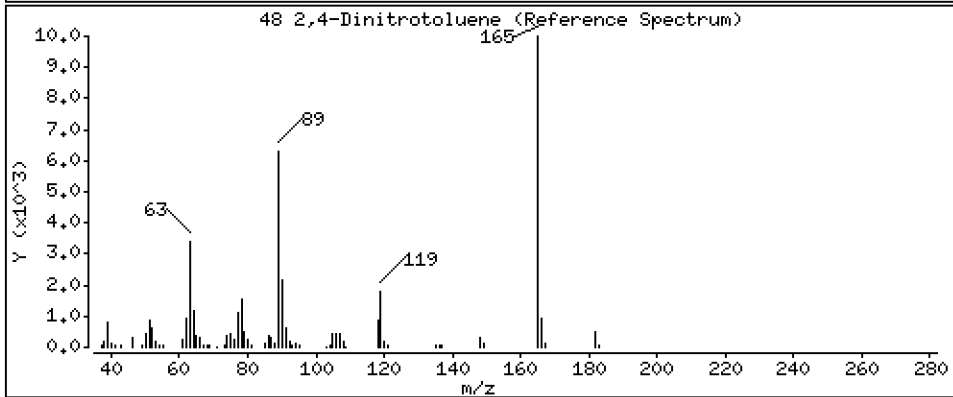
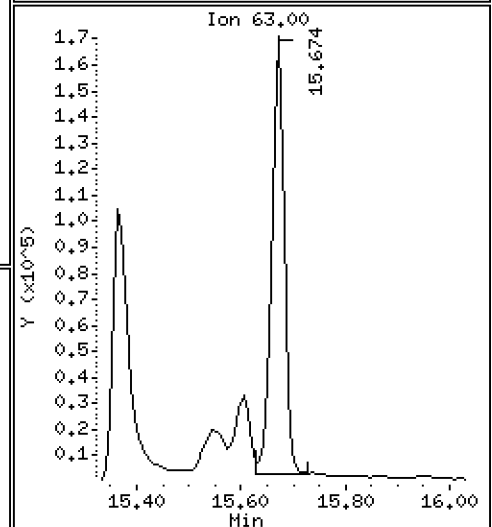
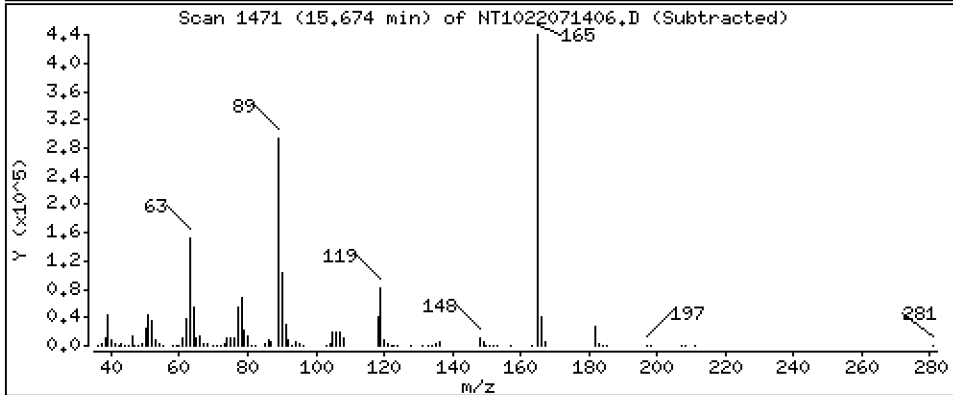
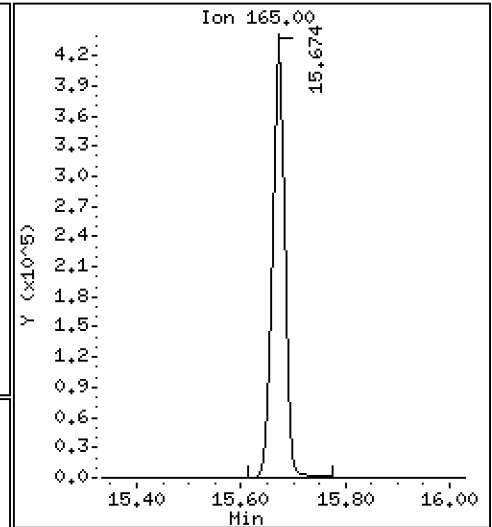
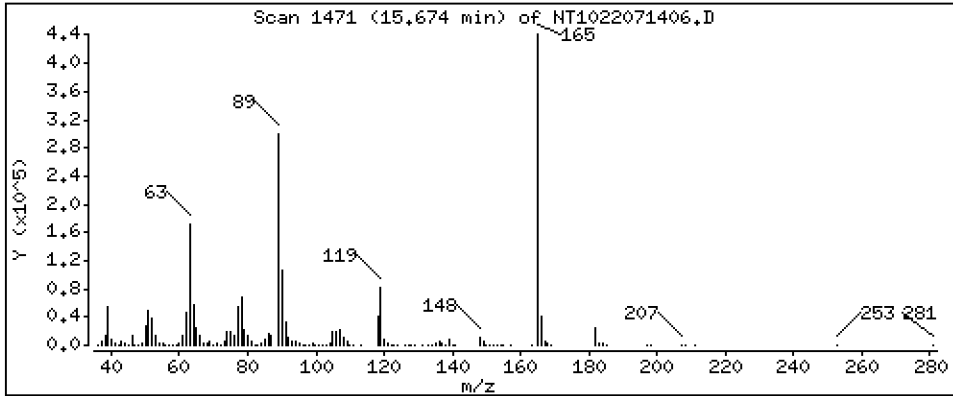
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 17,32 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

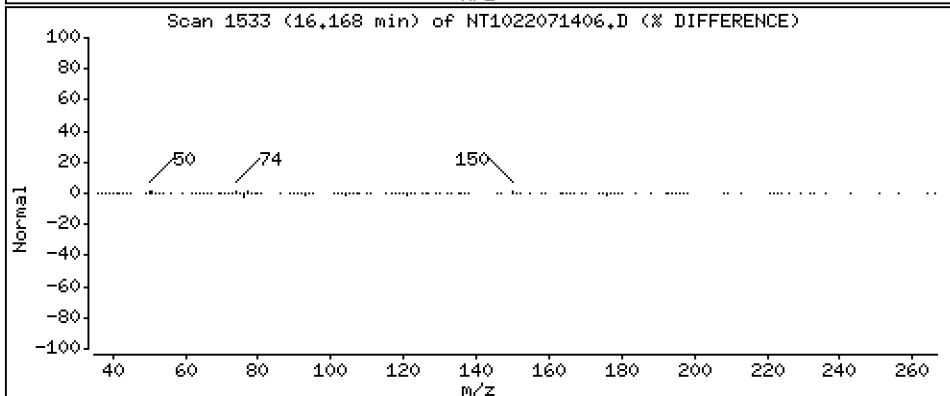
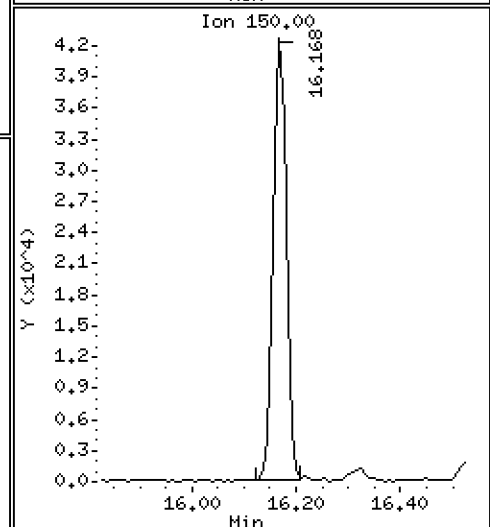
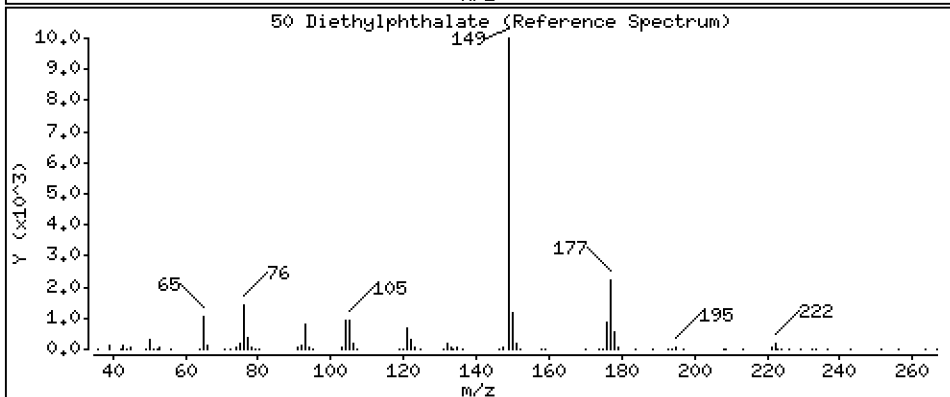
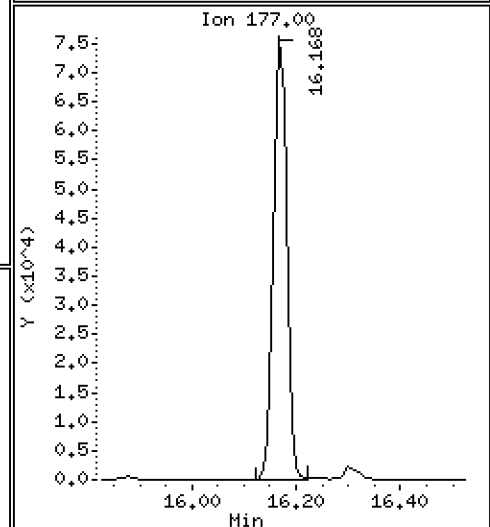
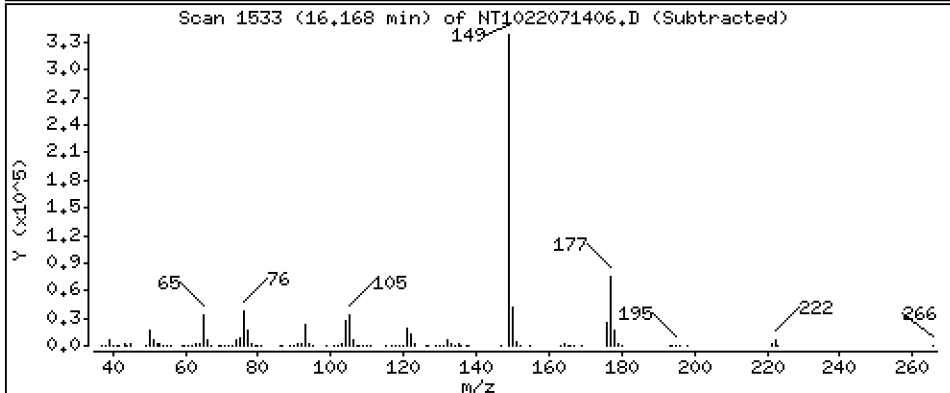
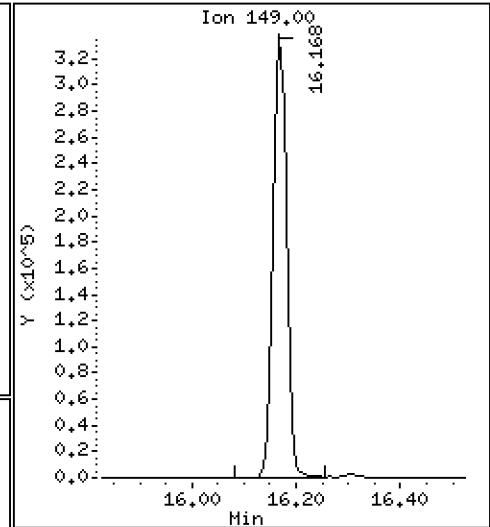
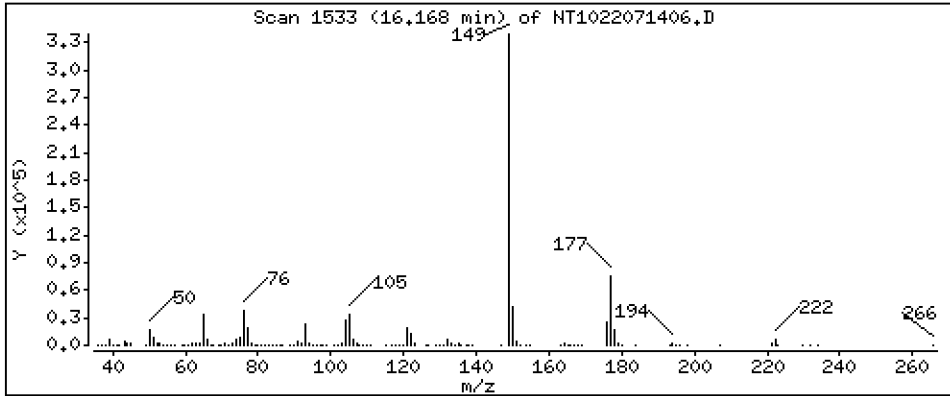
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 6,033 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

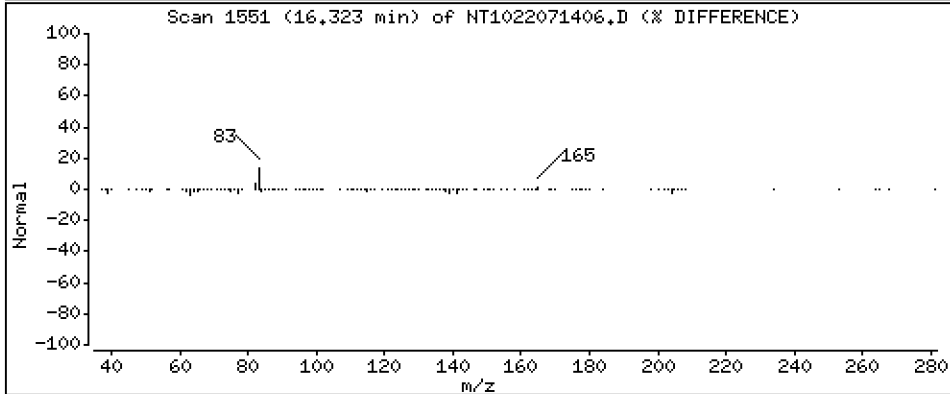
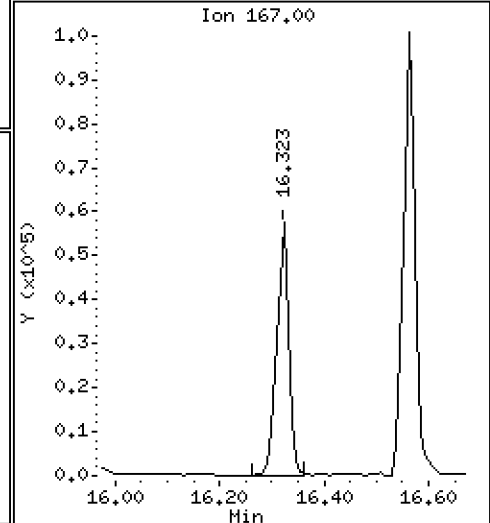
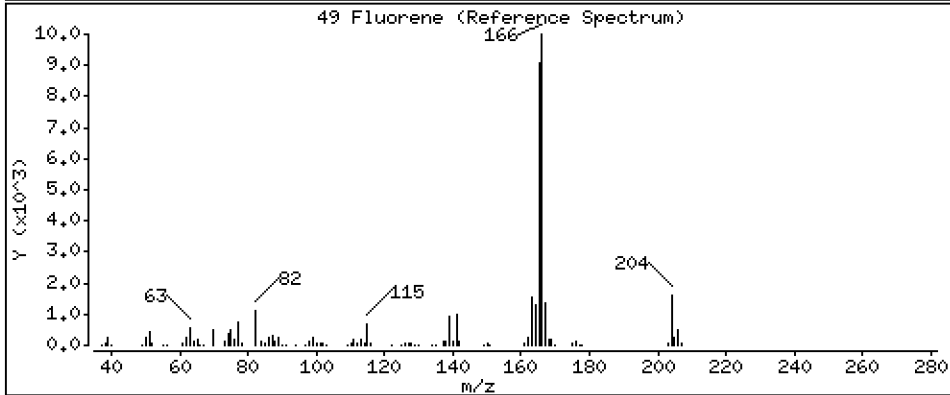
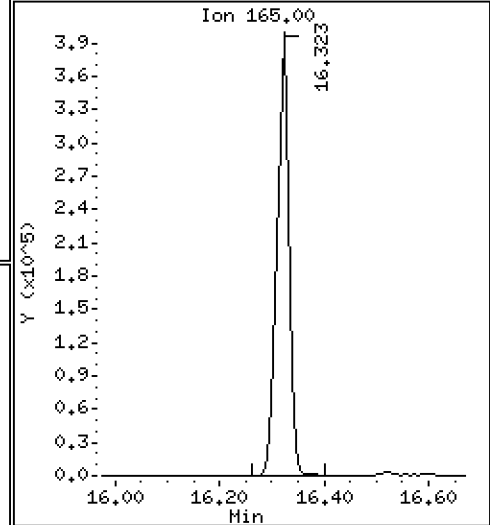
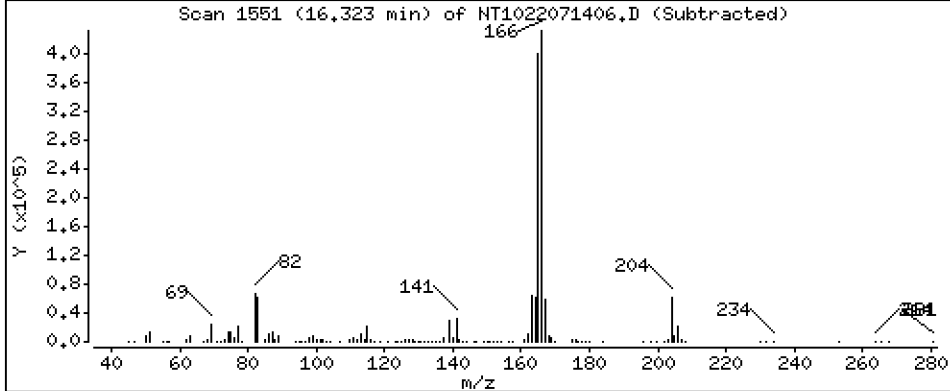
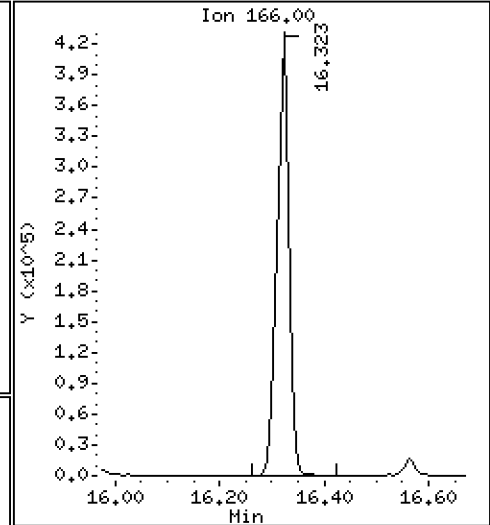
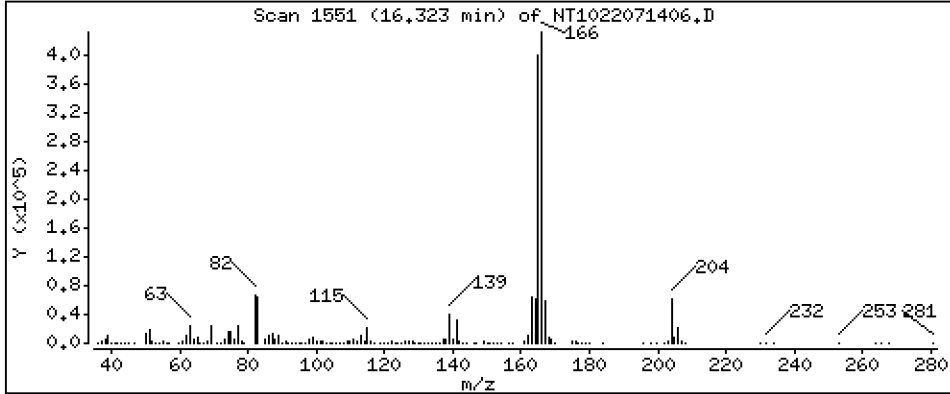
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 2,426 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

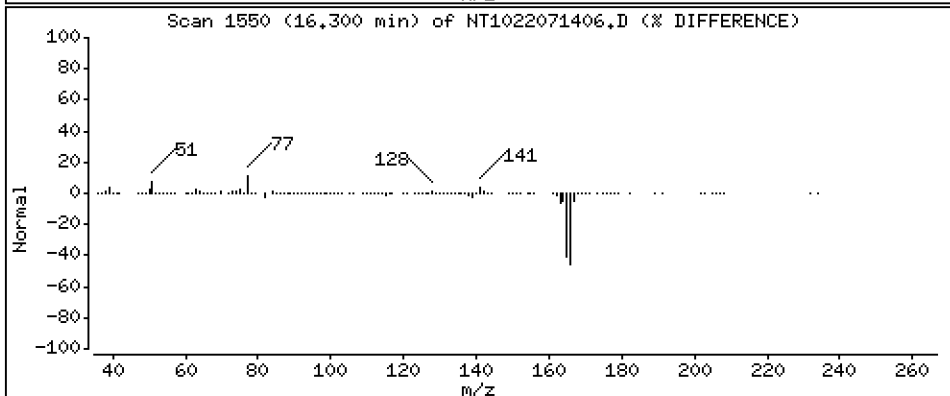
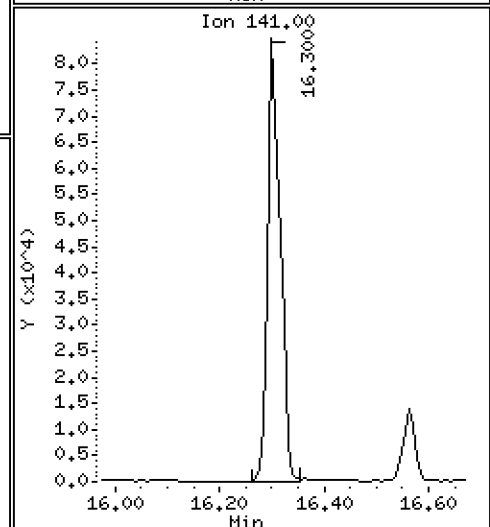
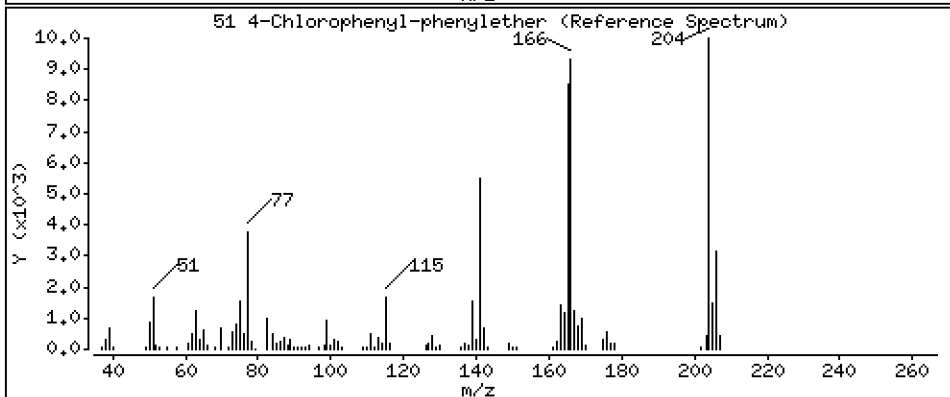
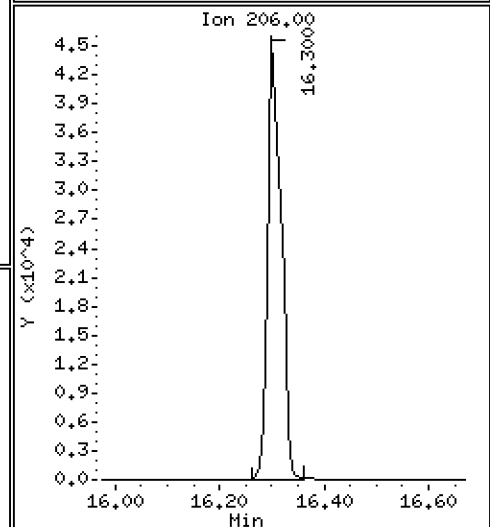
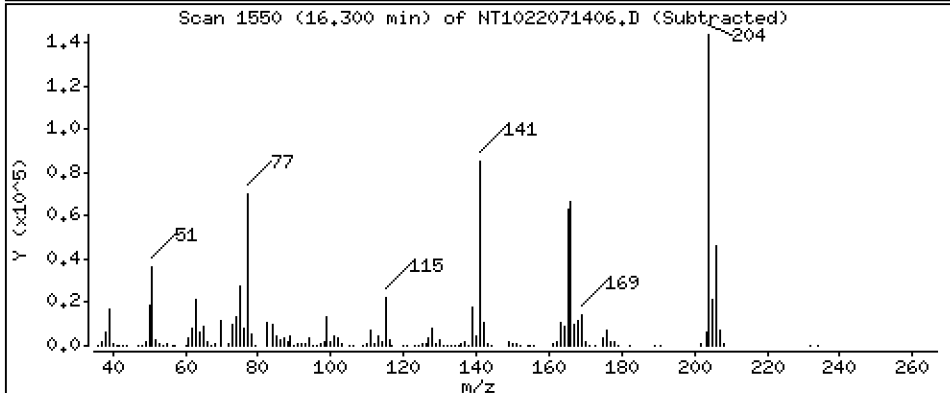
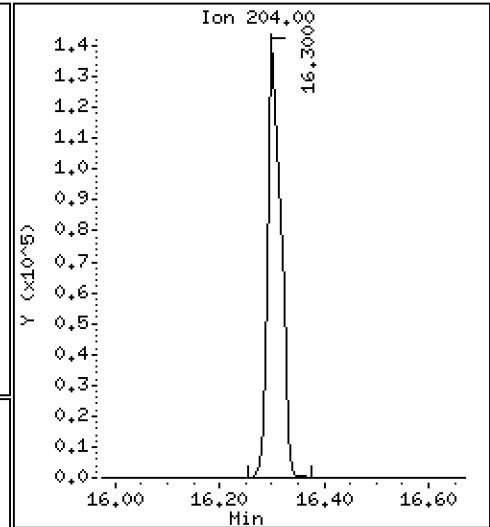
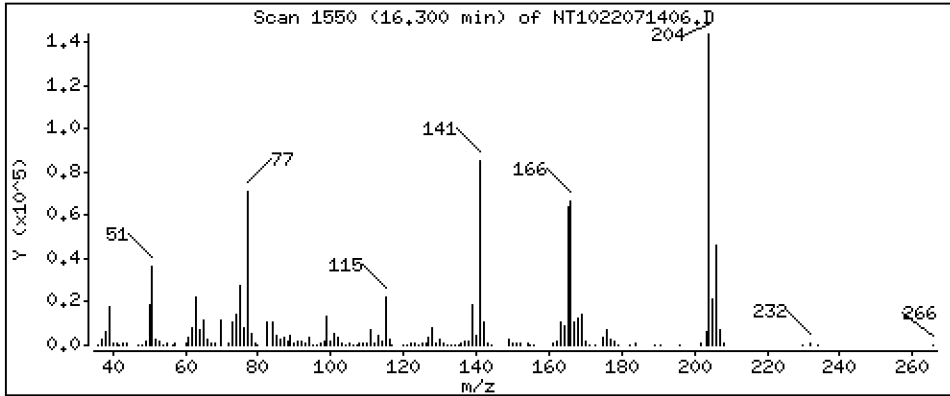
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 1,906 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

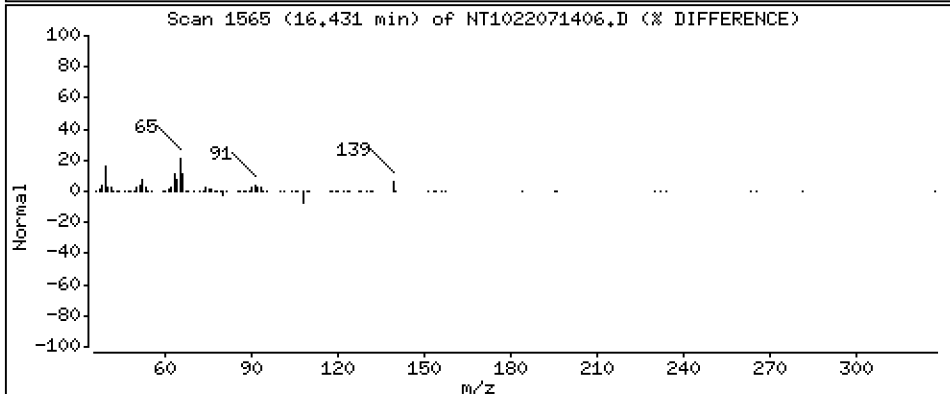
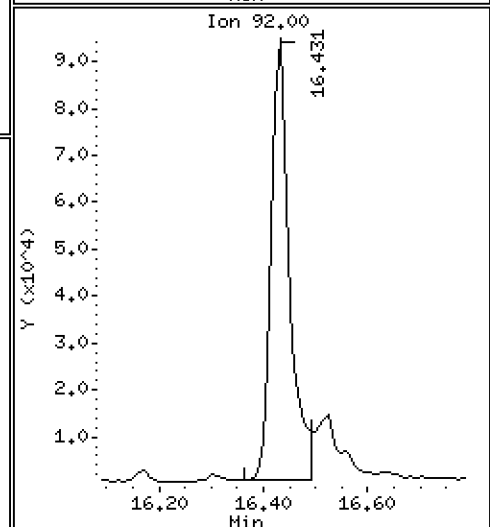
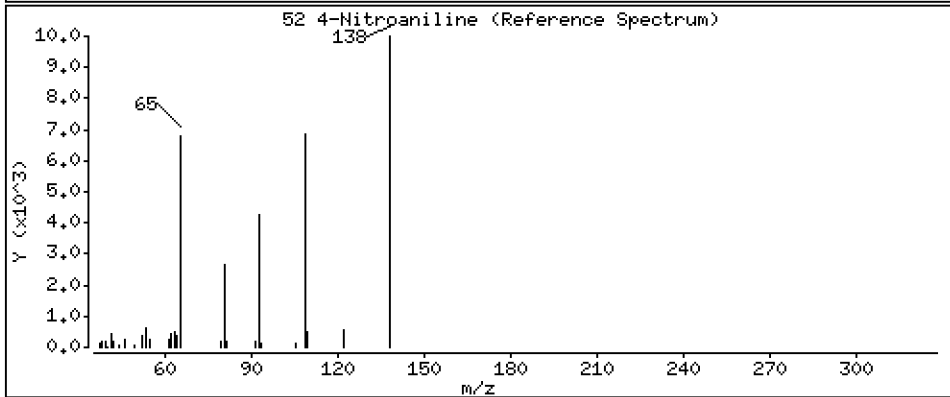
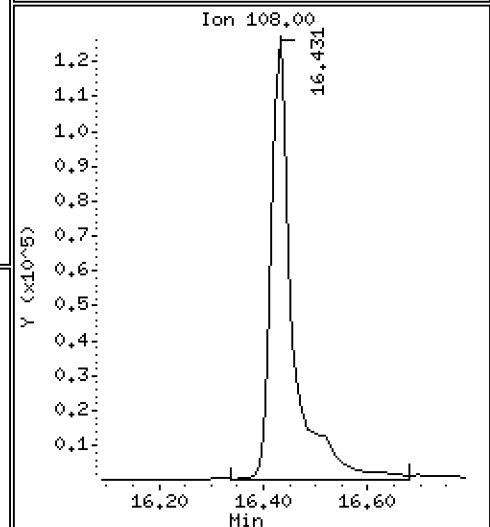
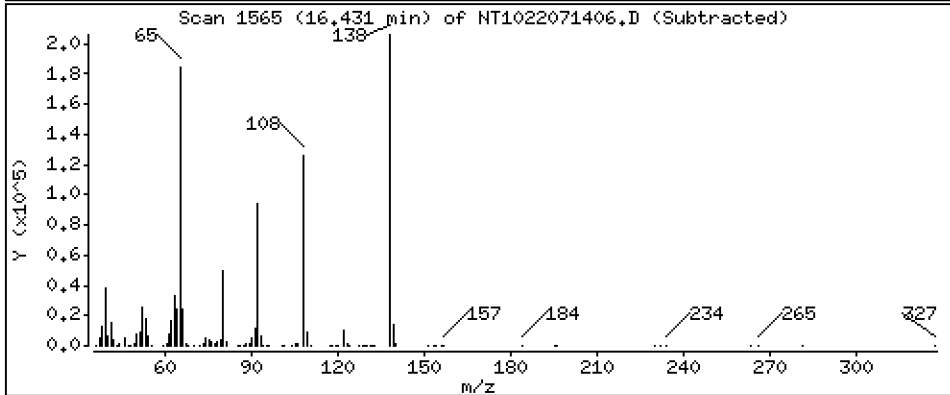
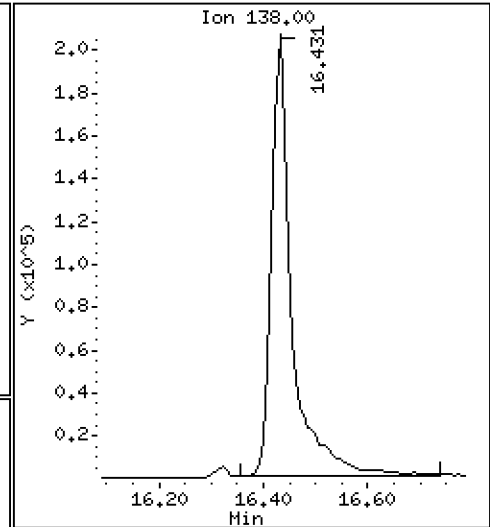
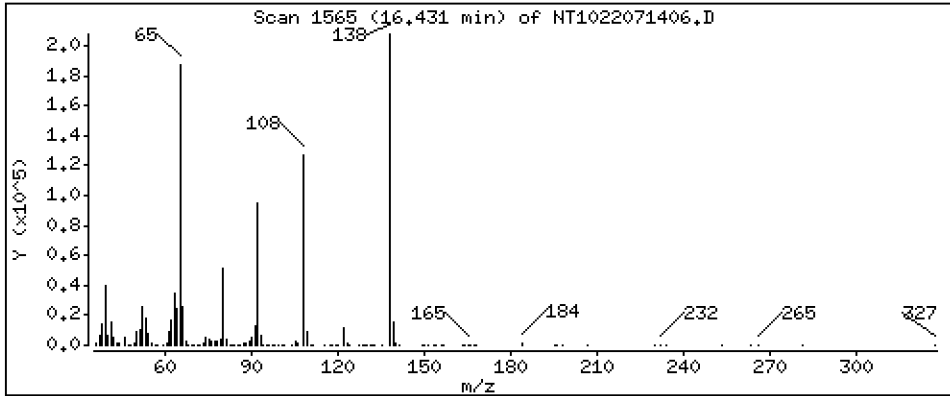
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 16,42 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

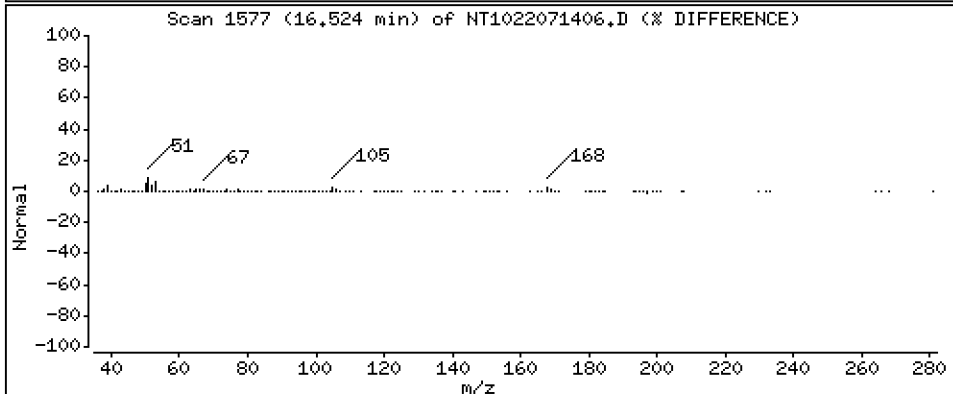
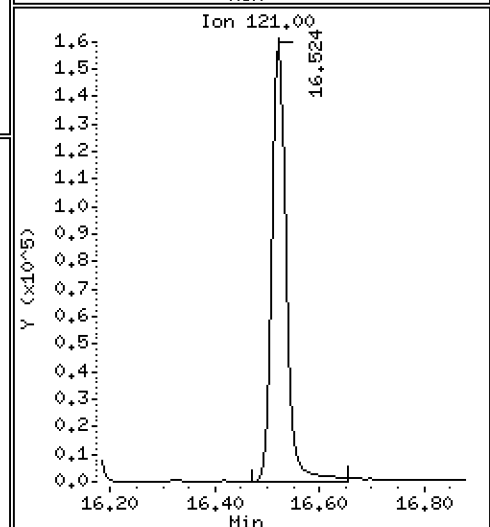
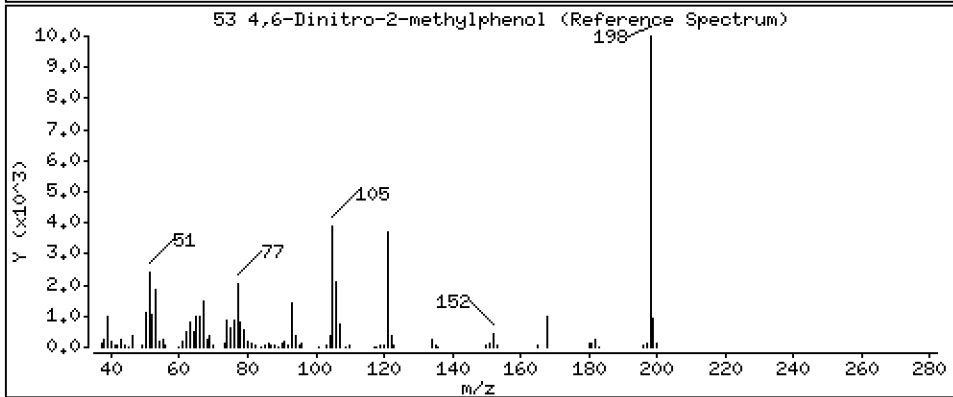
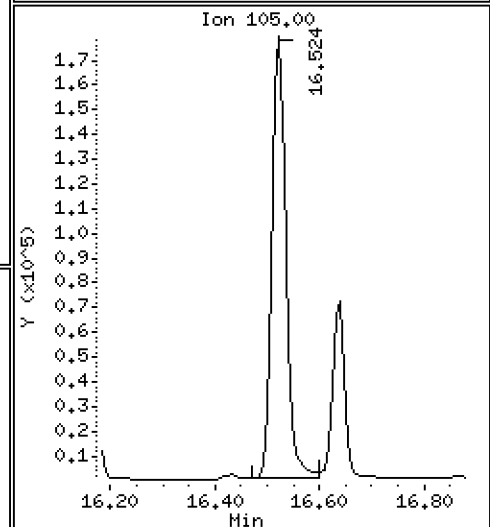
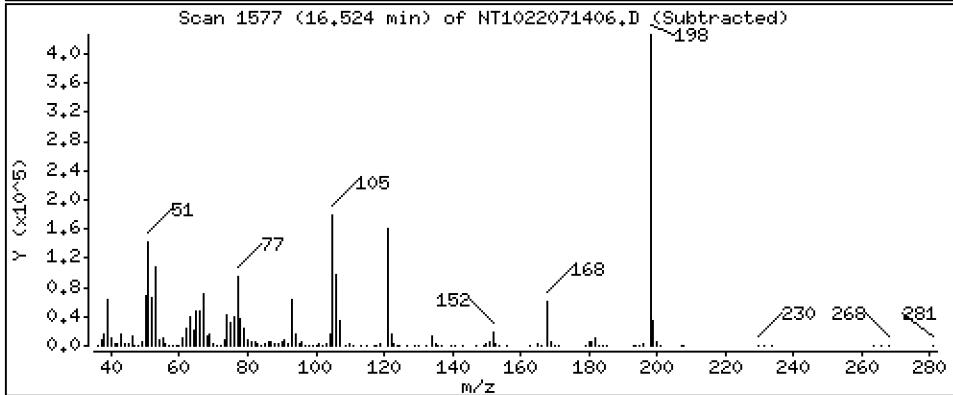
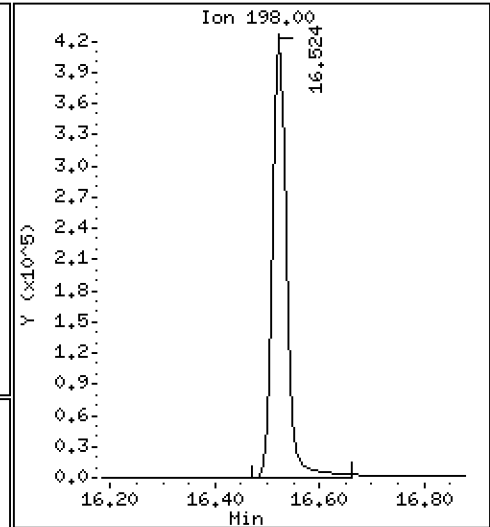
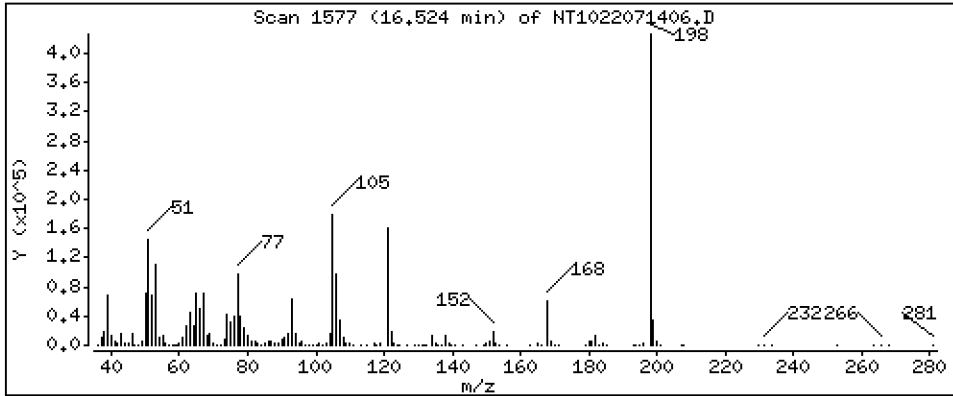
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 32,41 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

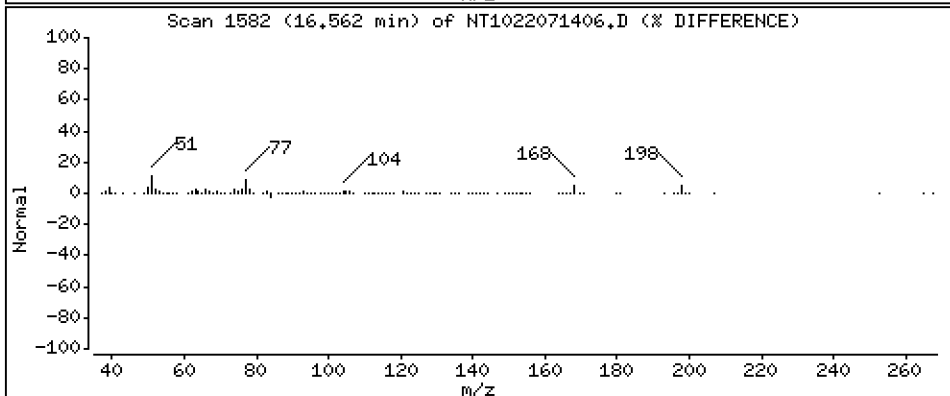
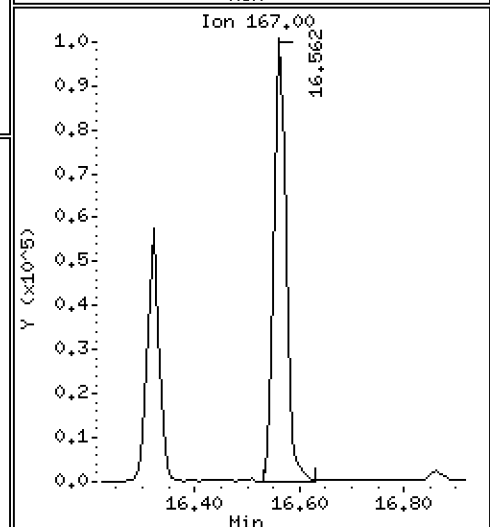
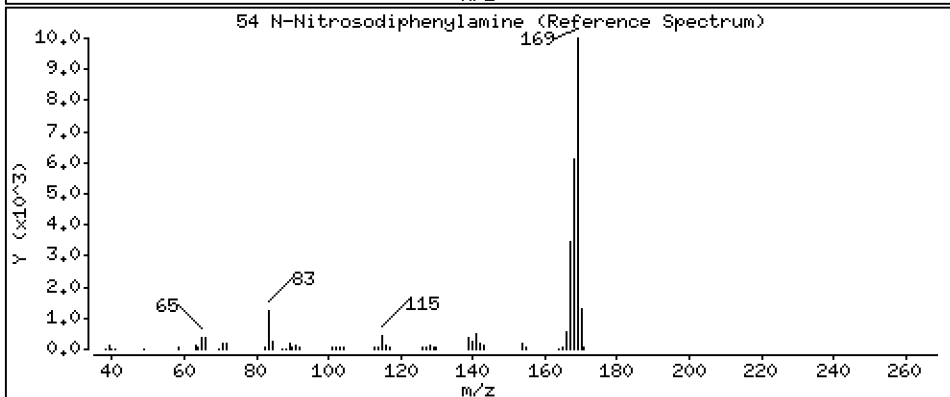
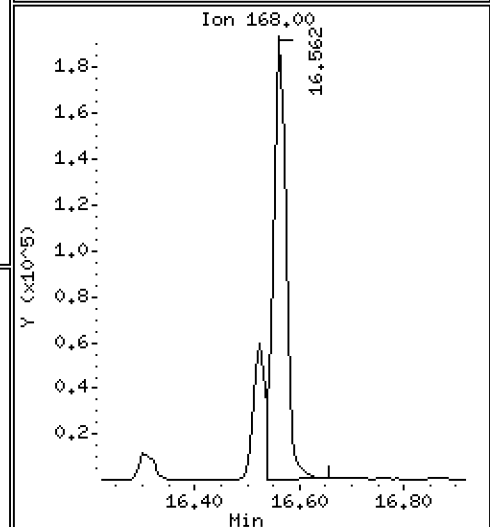
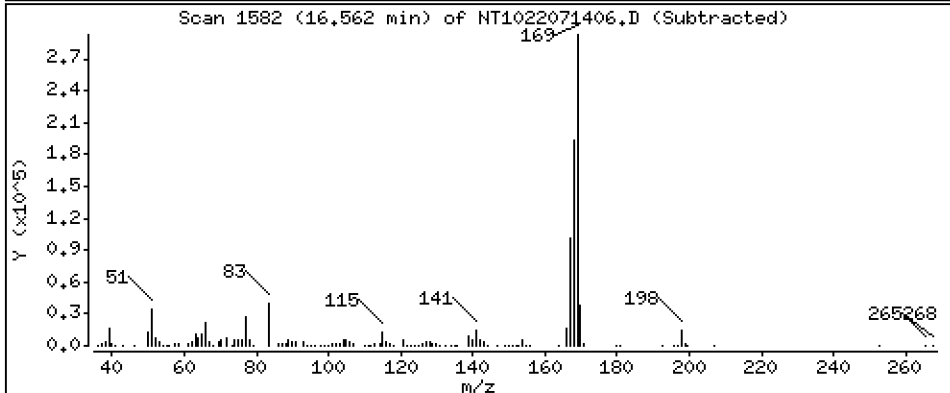
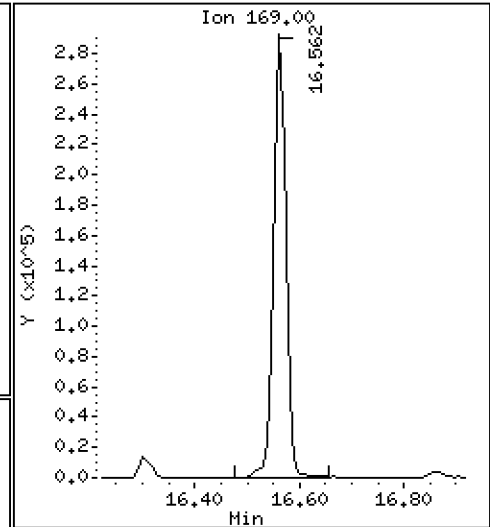
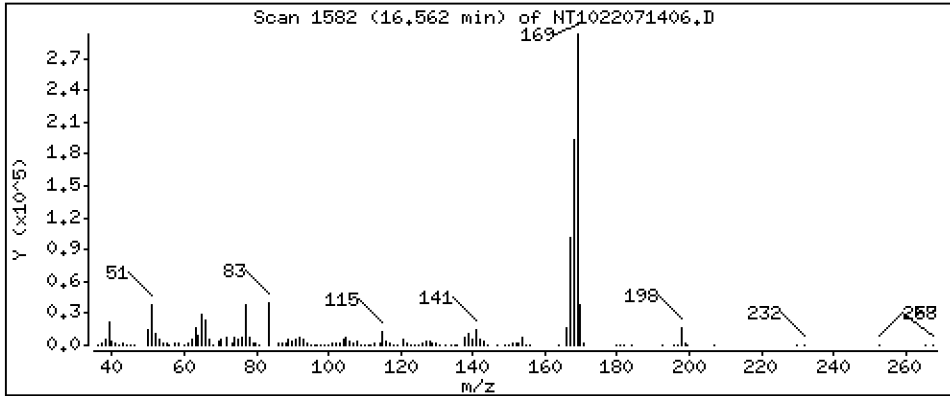
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,770 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

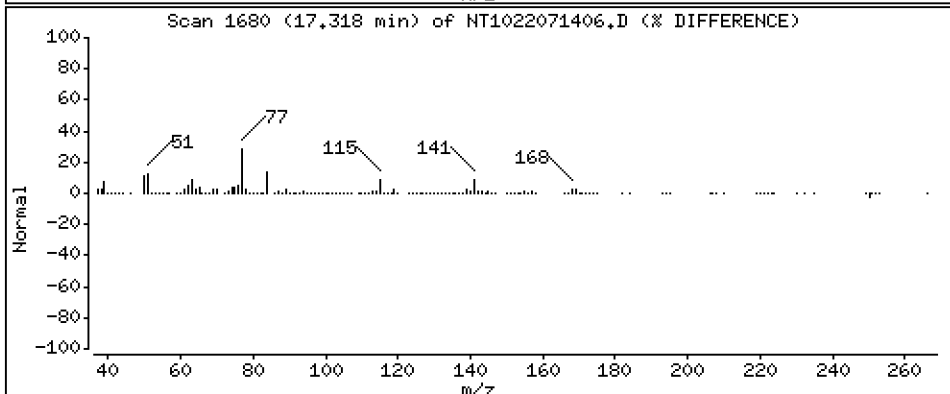
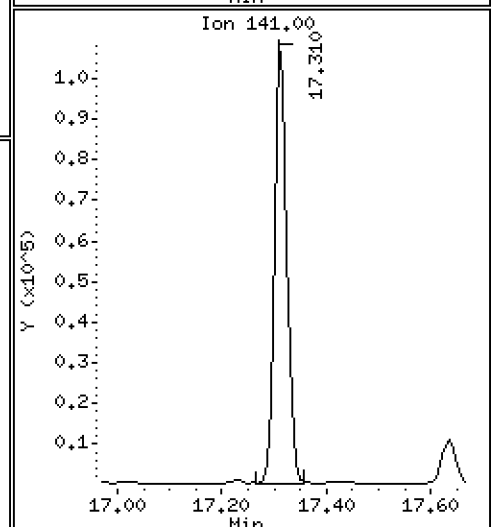
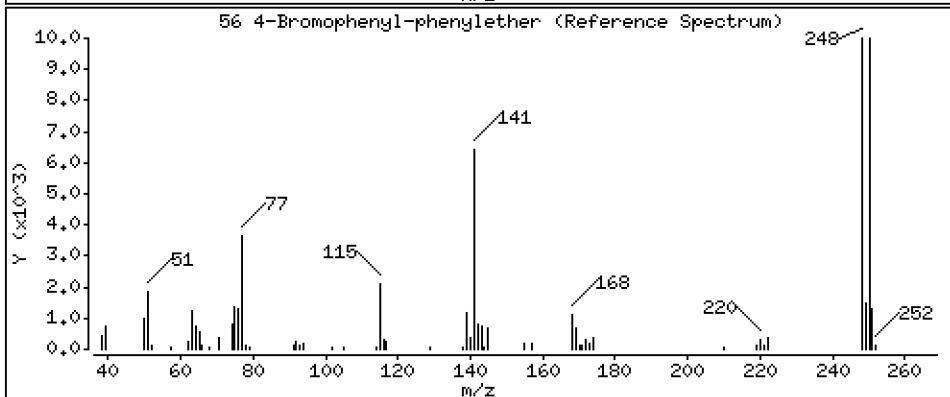
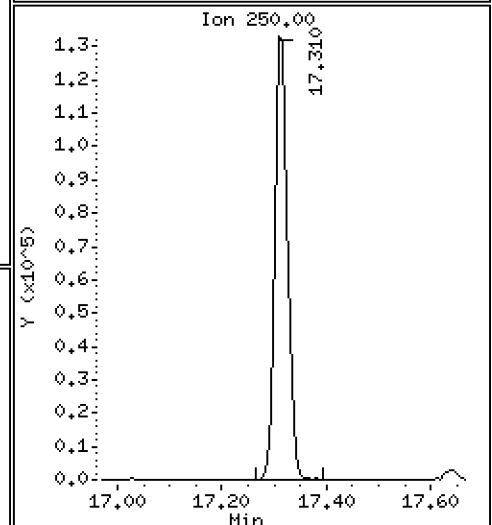
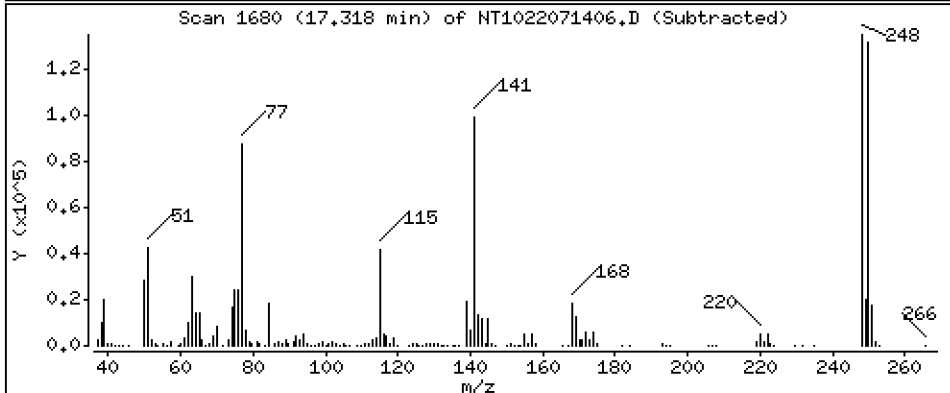
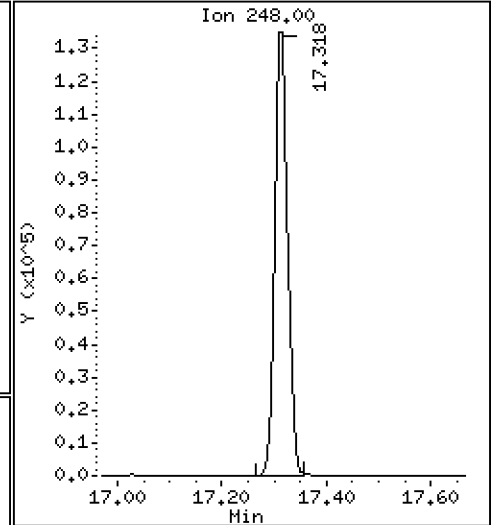
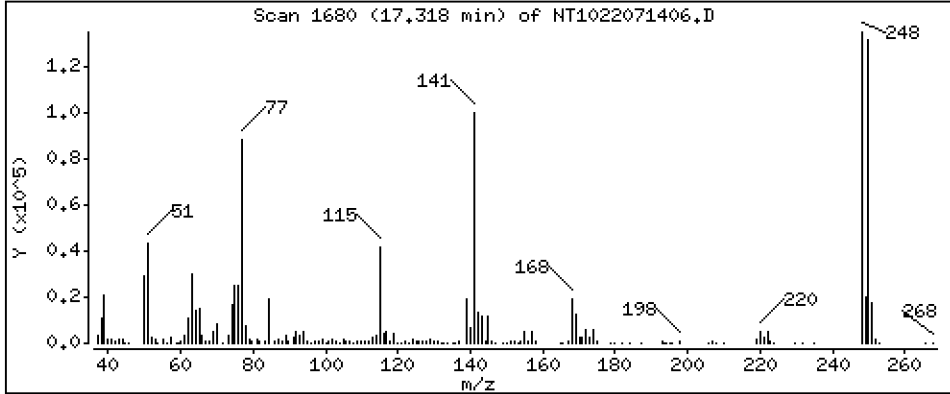
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,229 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

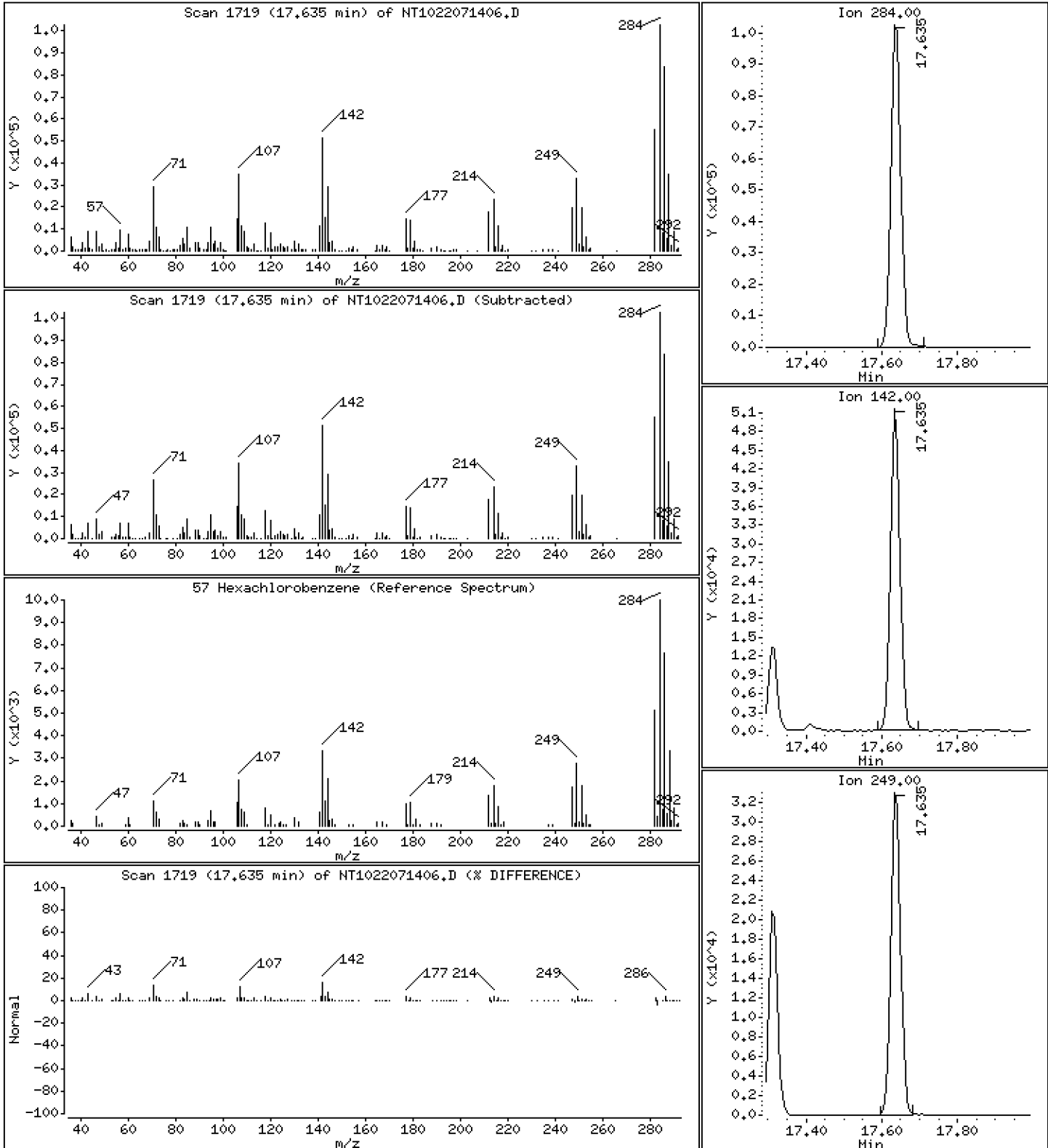
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,656 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

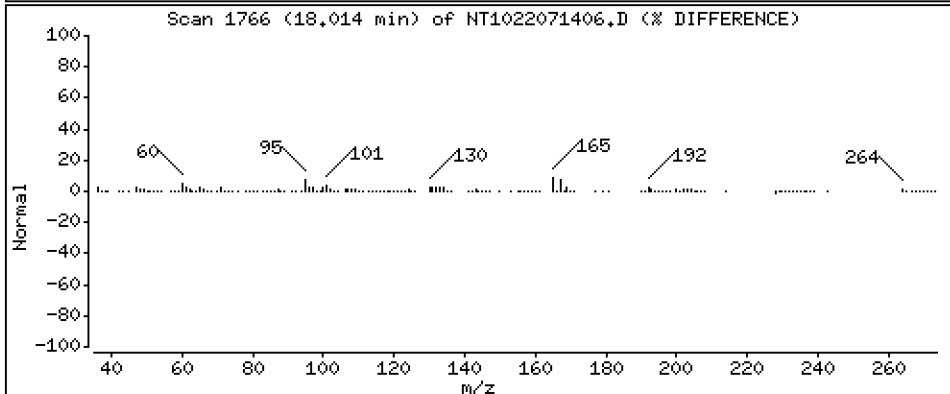
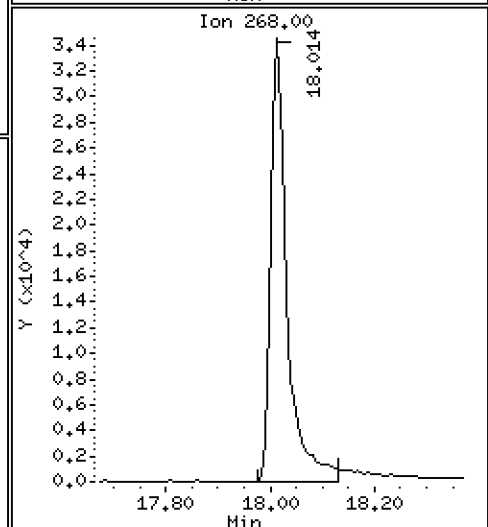
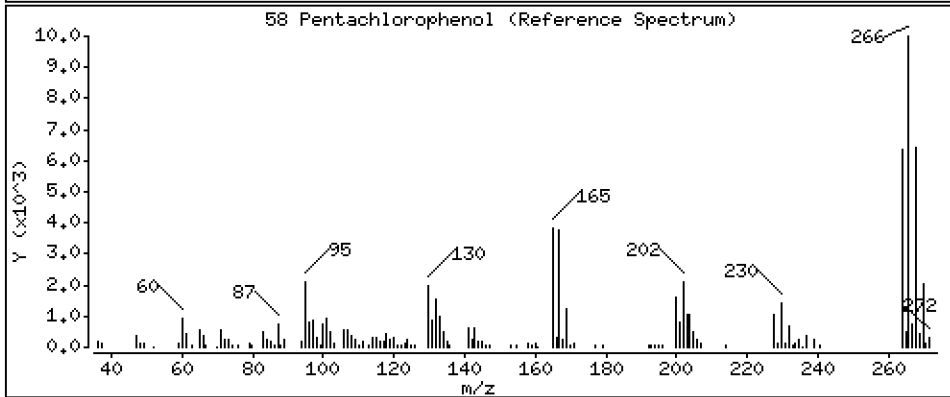
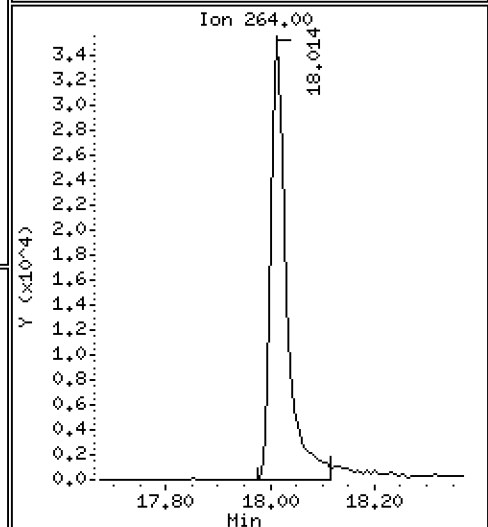
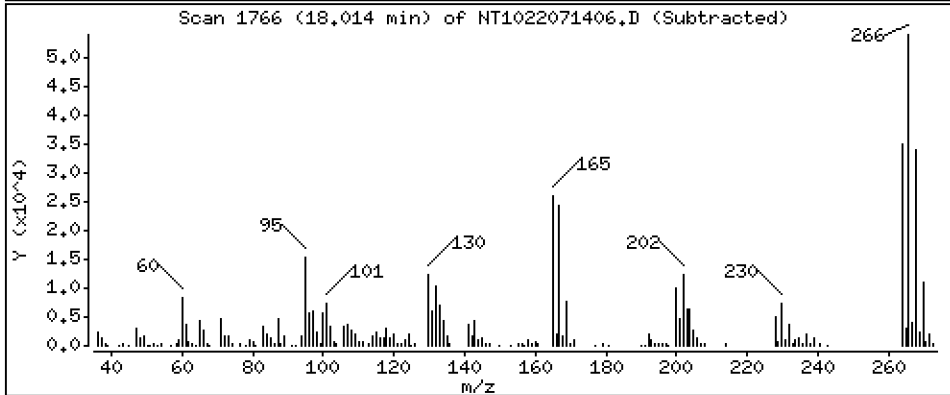
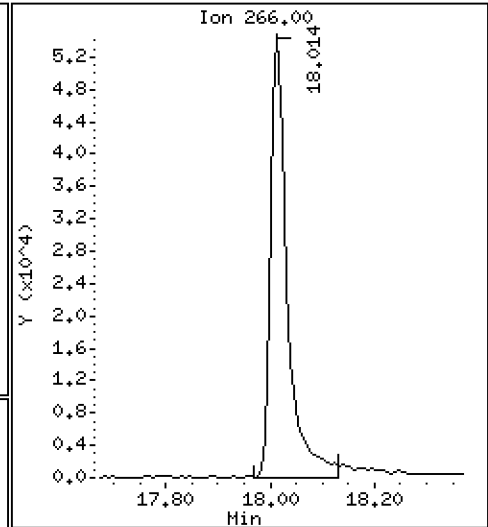
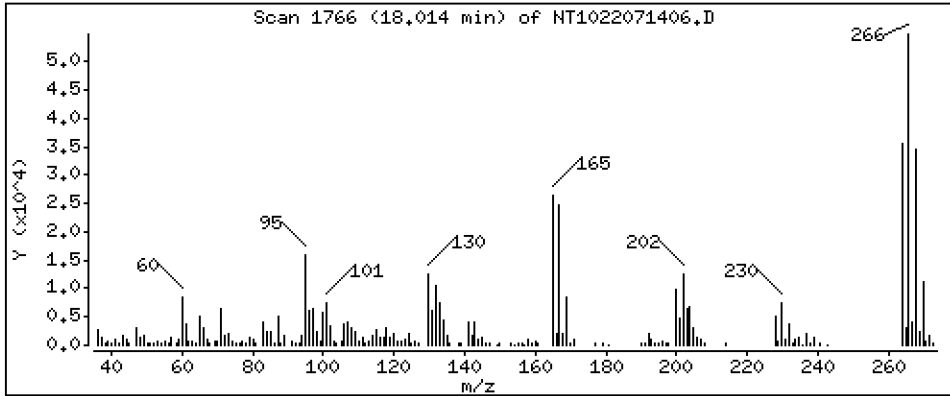
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 12,34 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

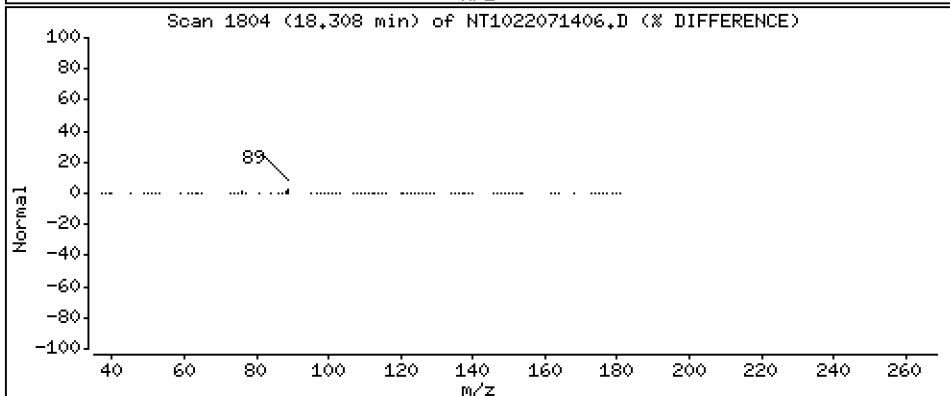
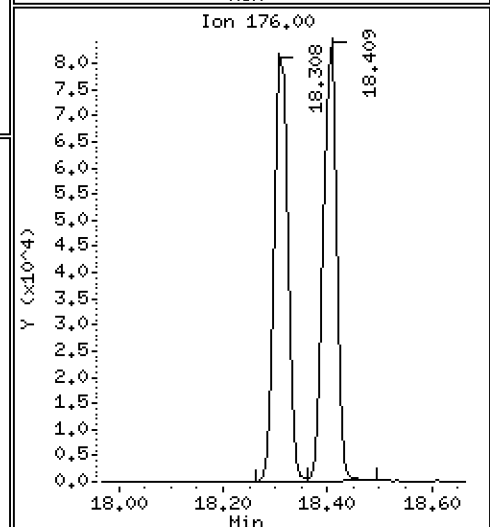
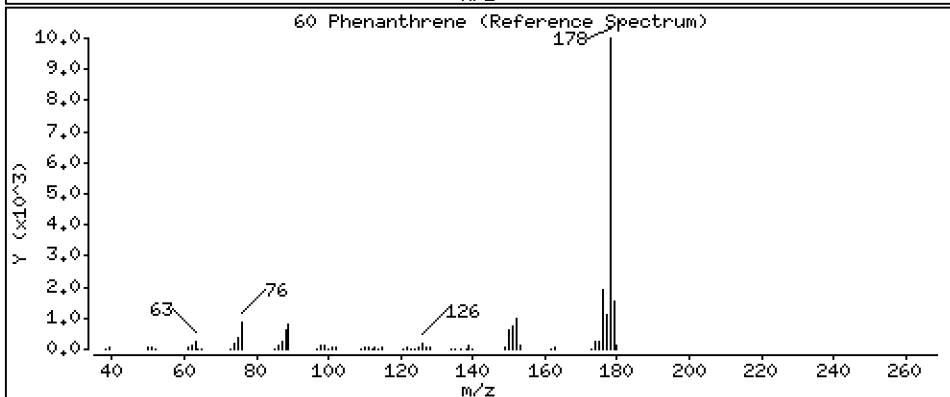
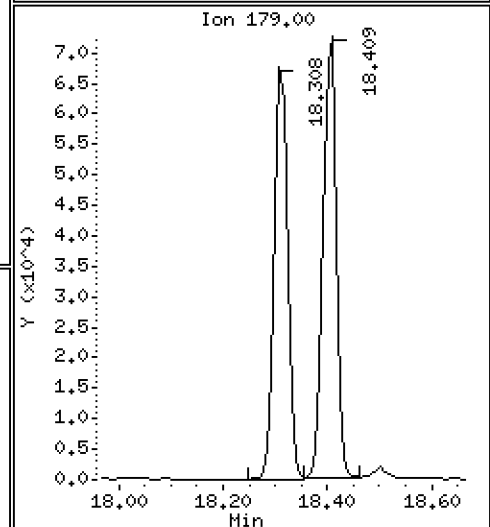
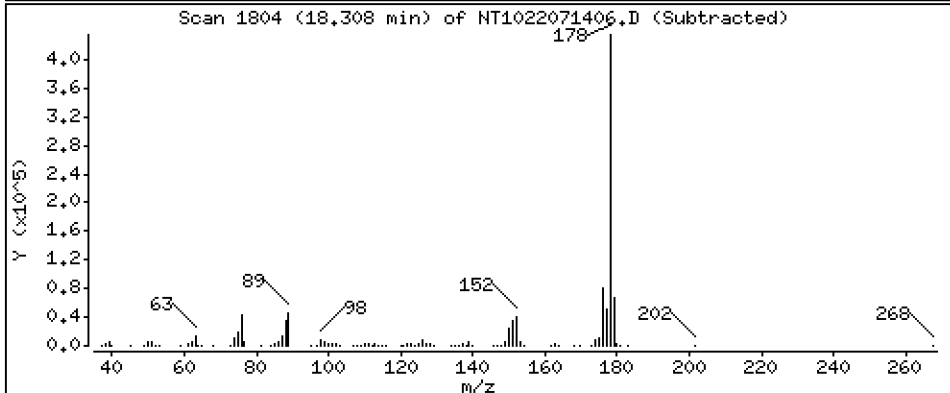
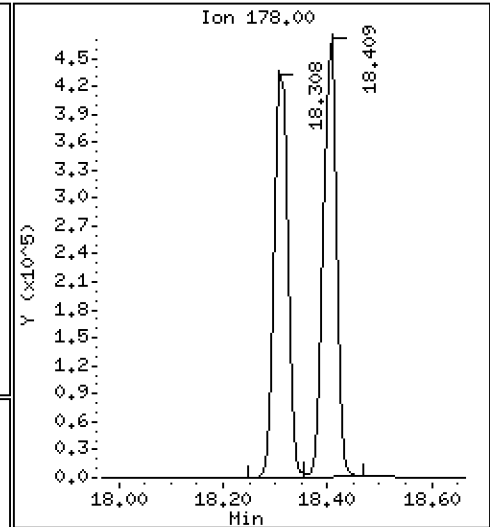
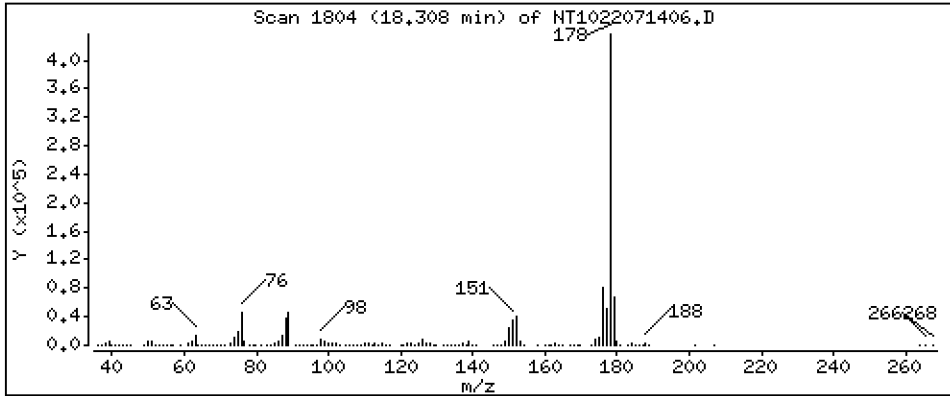
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,806 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

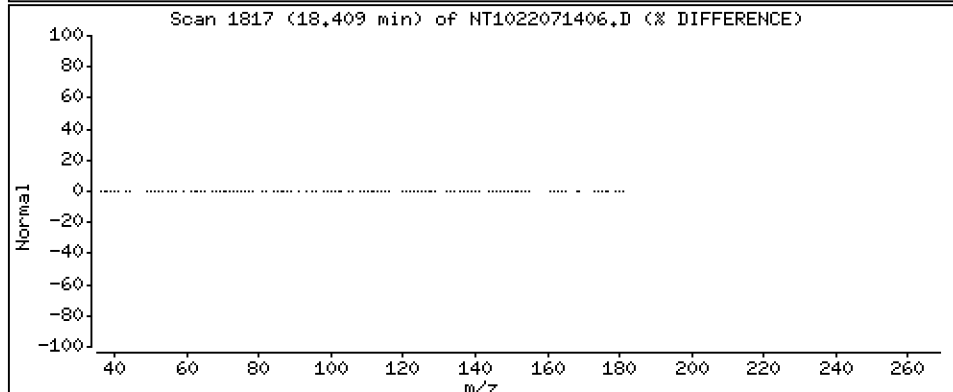
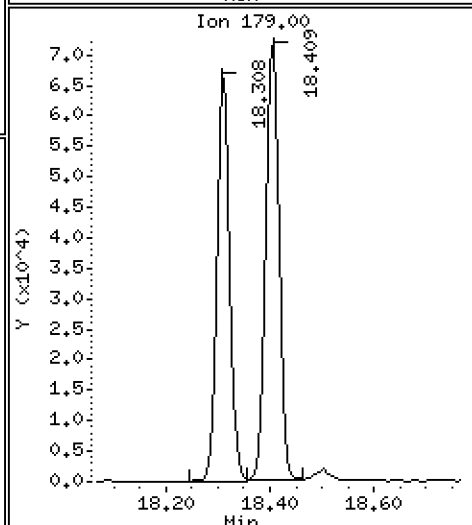
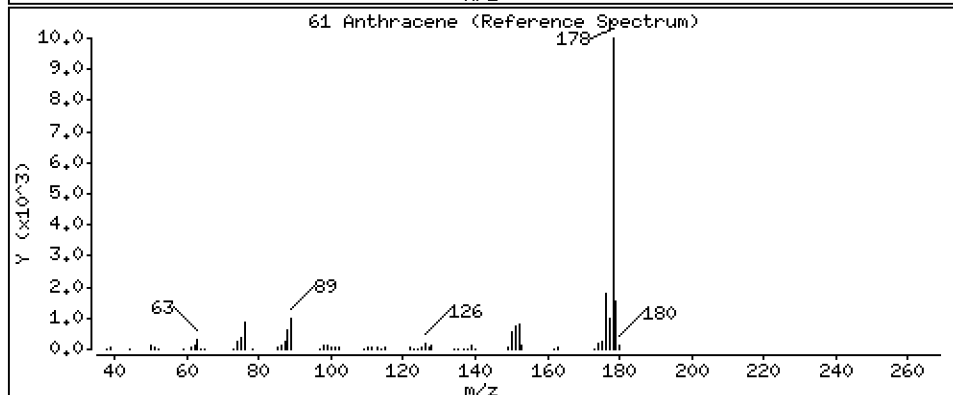
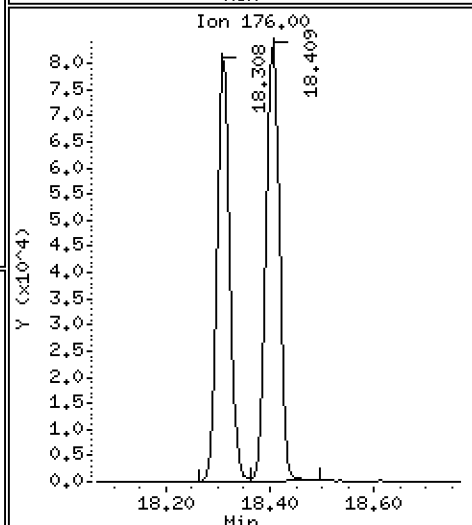
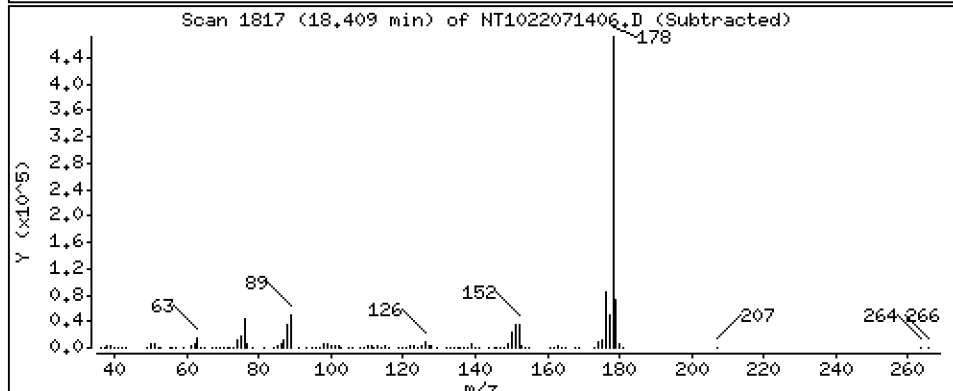
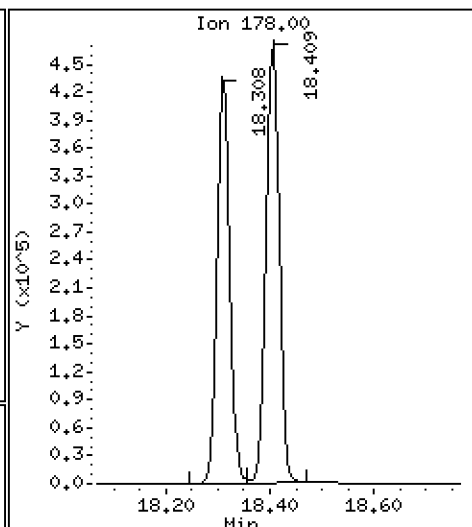
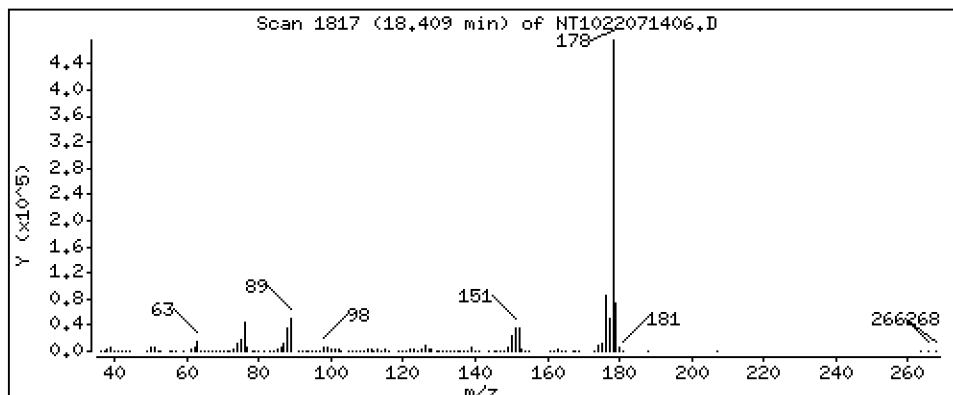
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,757 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

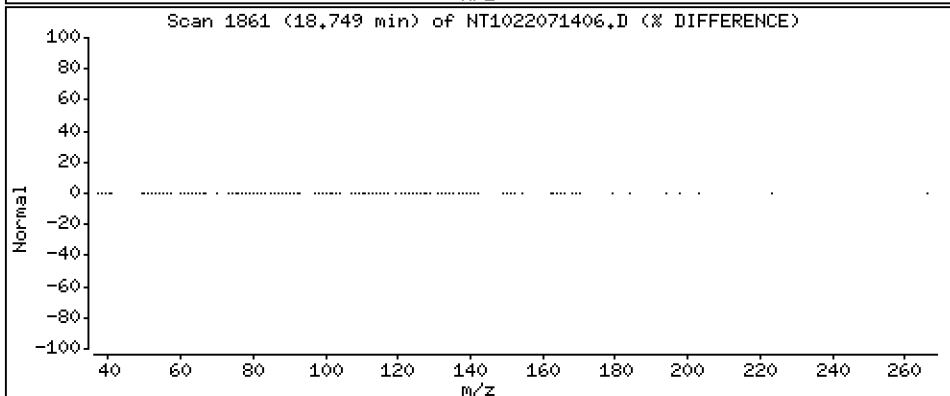
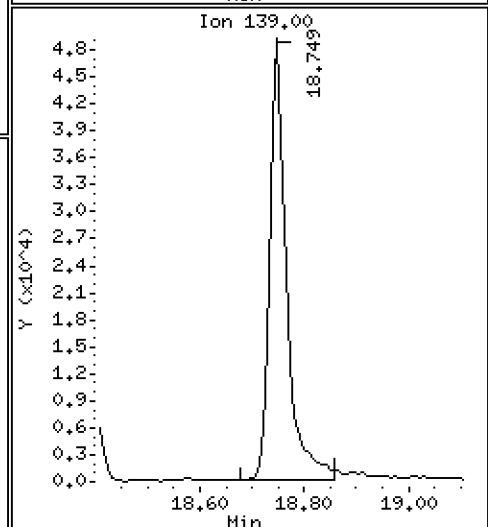
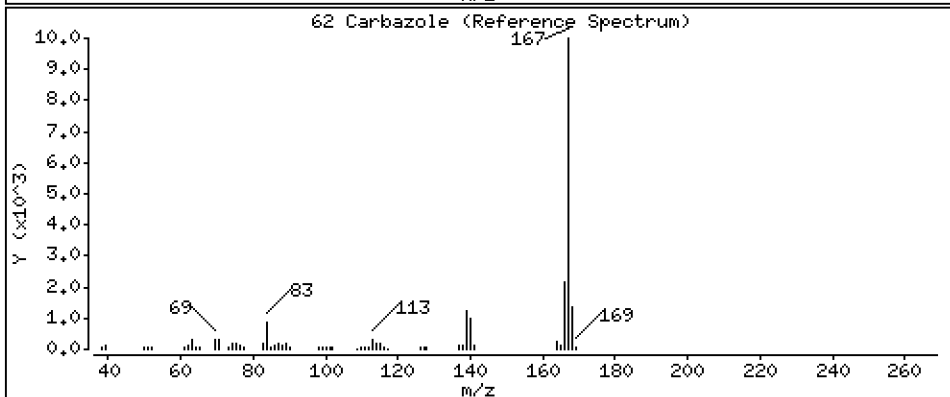
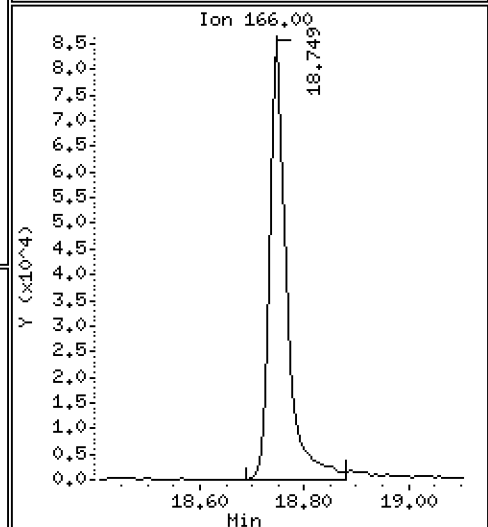
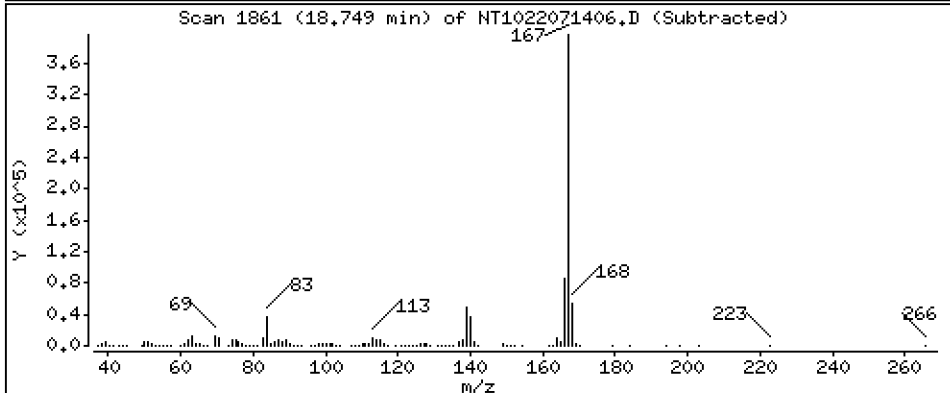
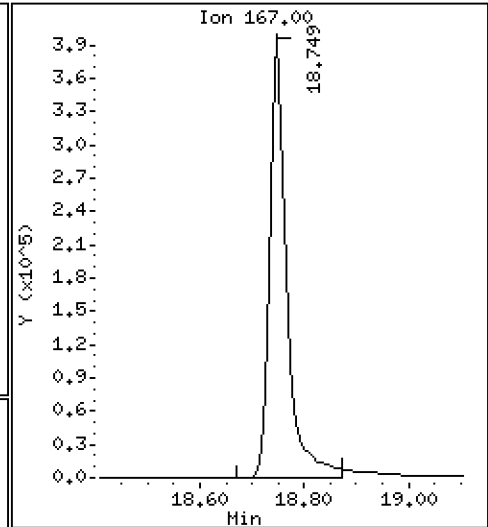
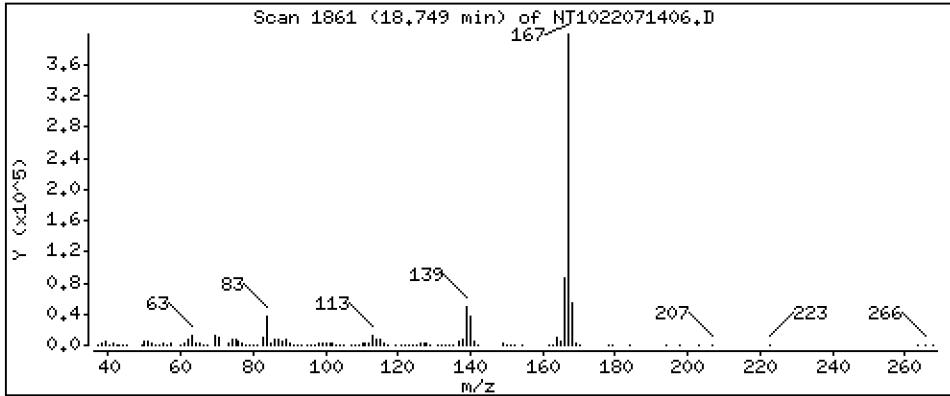
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,644 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

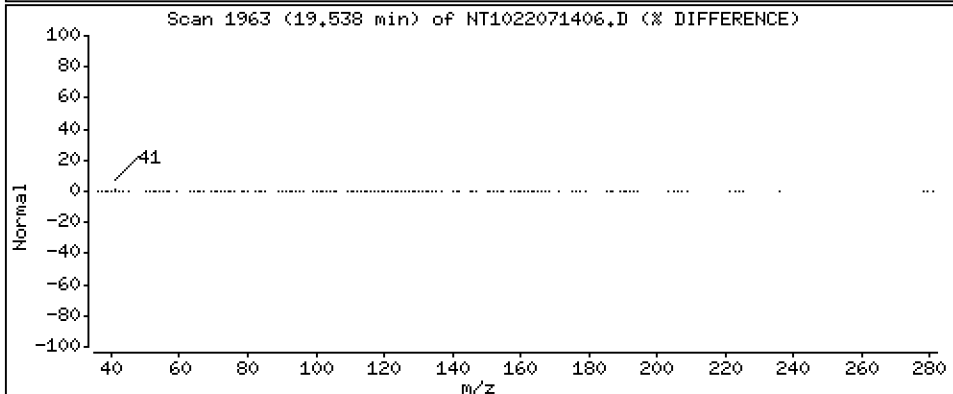
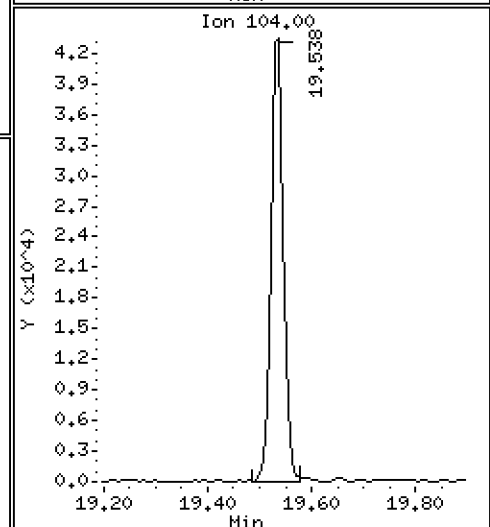
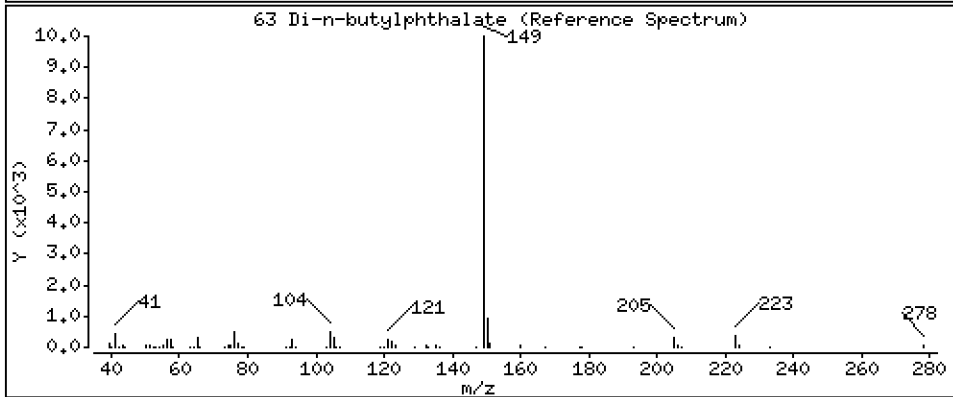
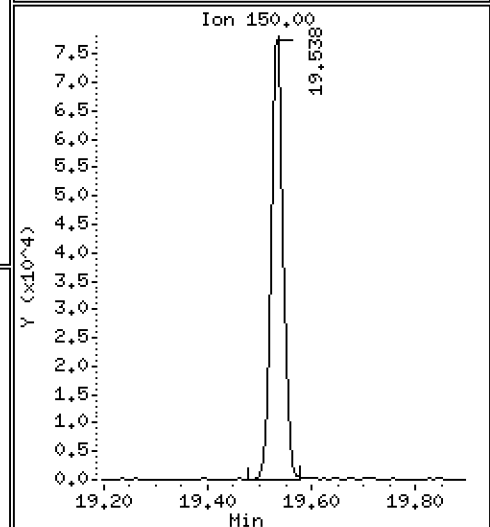
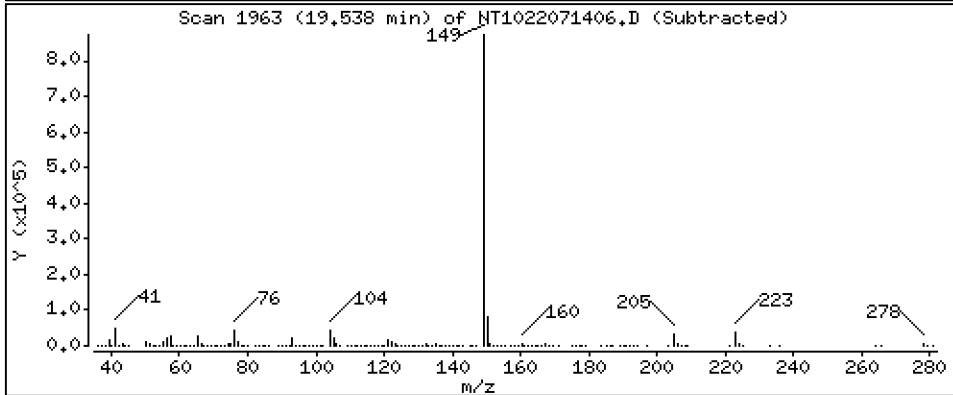
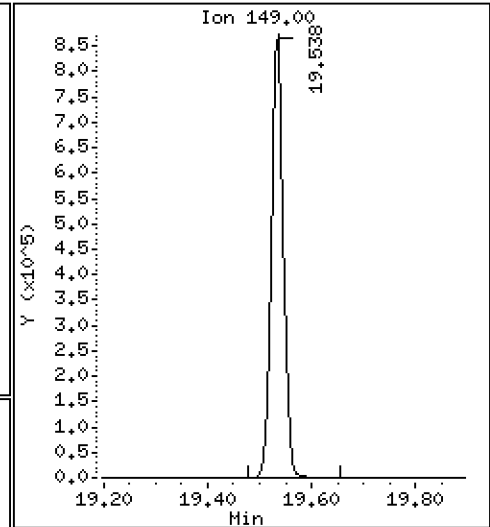
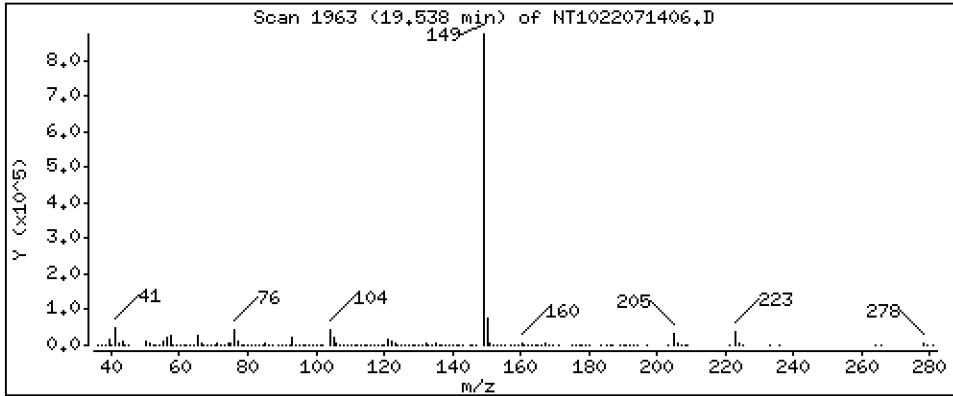
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,743 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

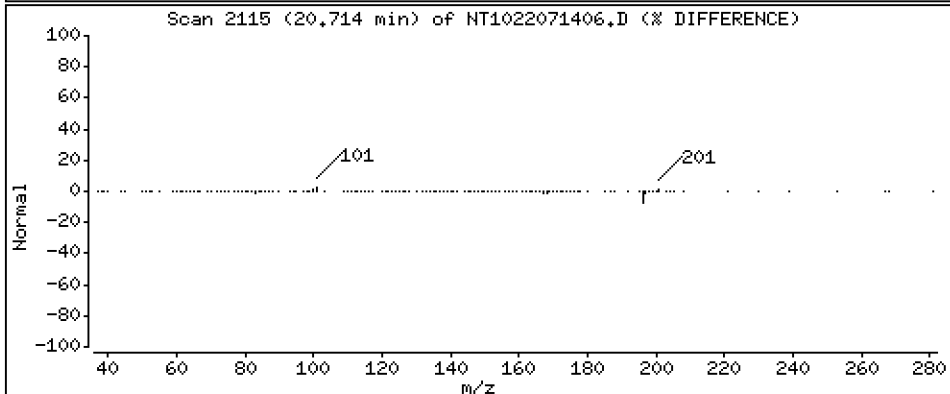
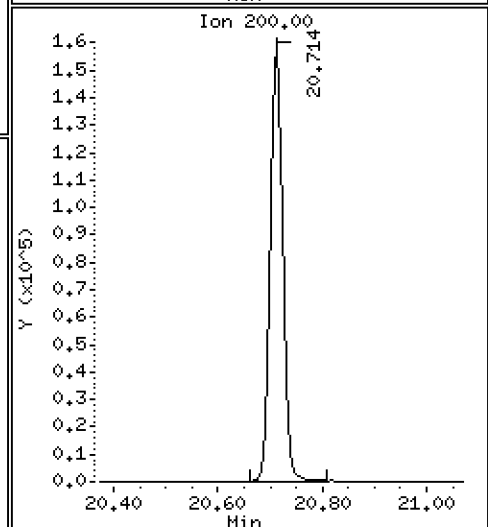
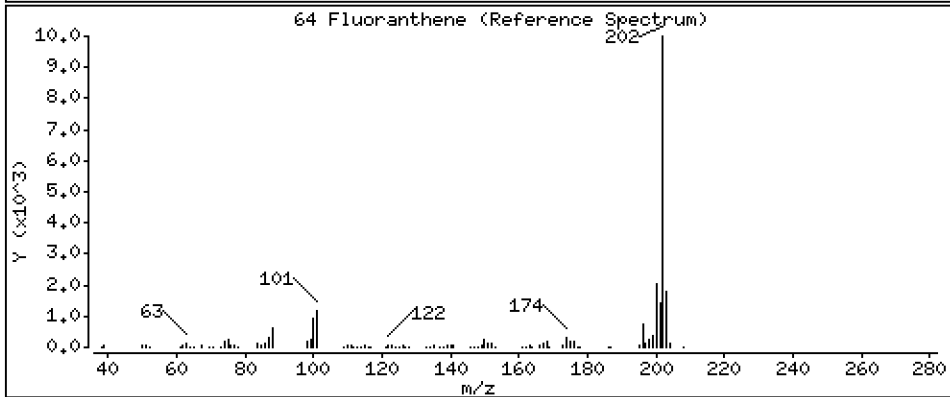
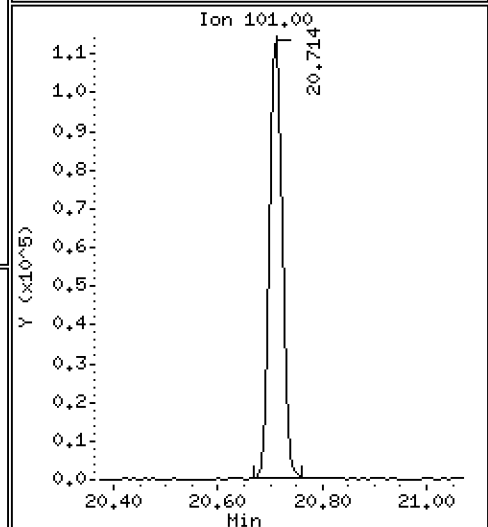
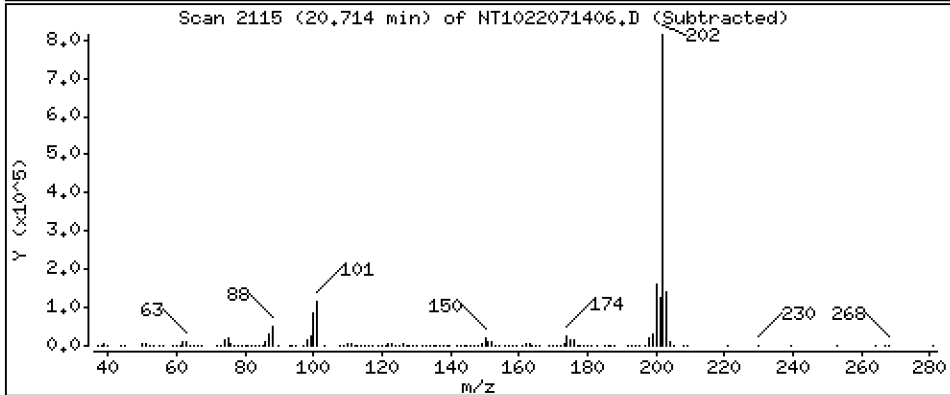
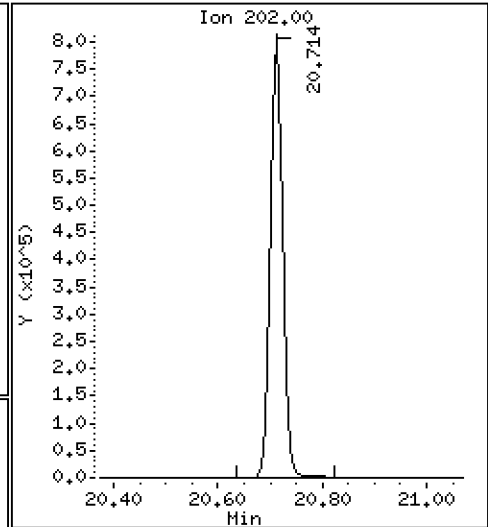
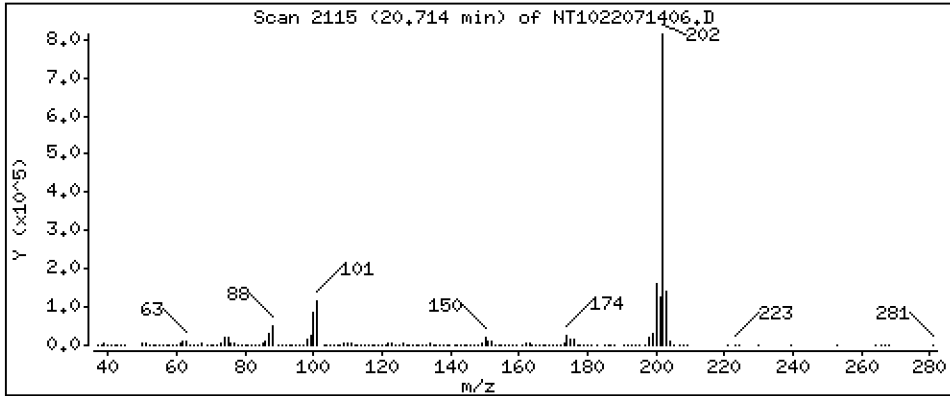
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,879 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

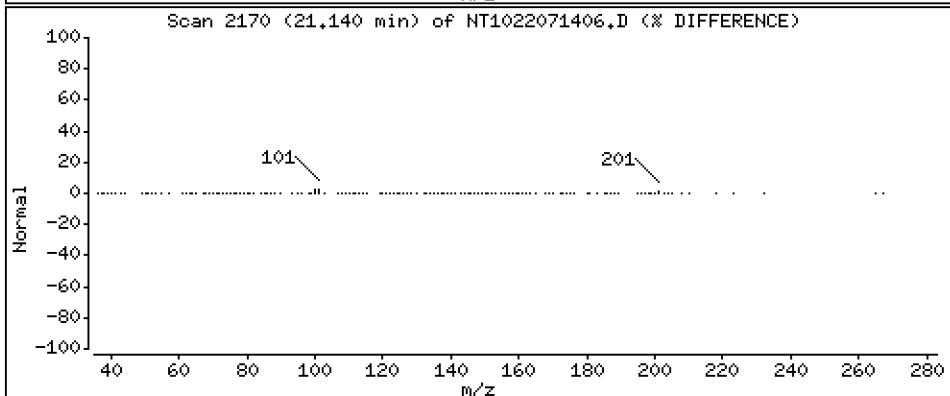
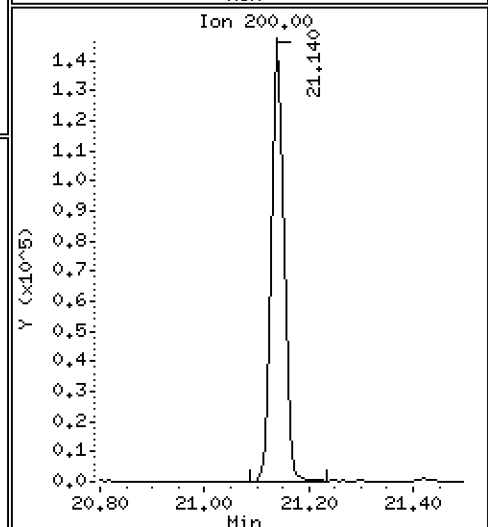
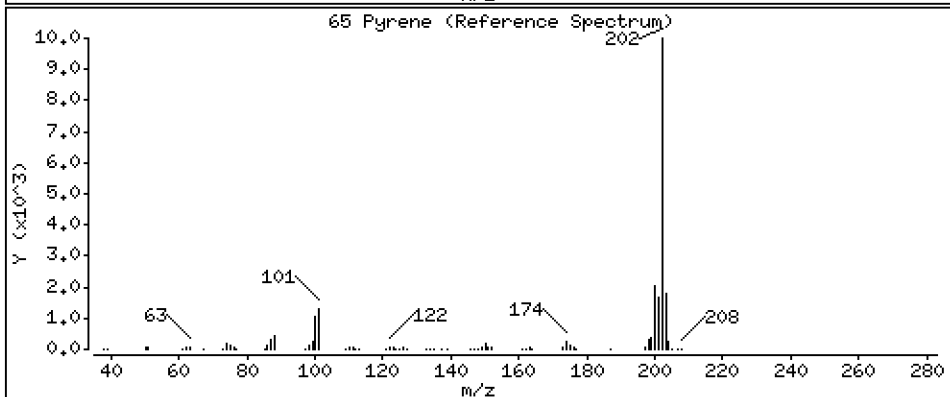
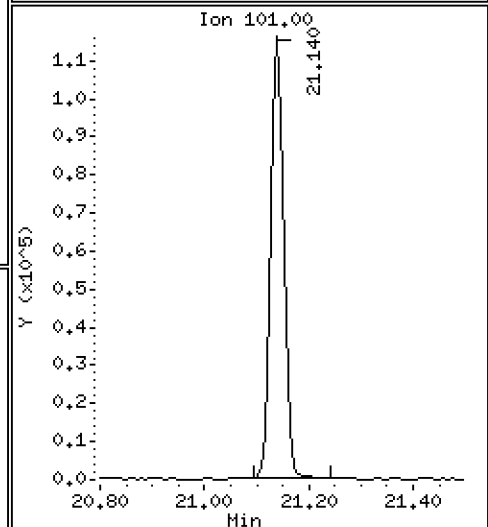
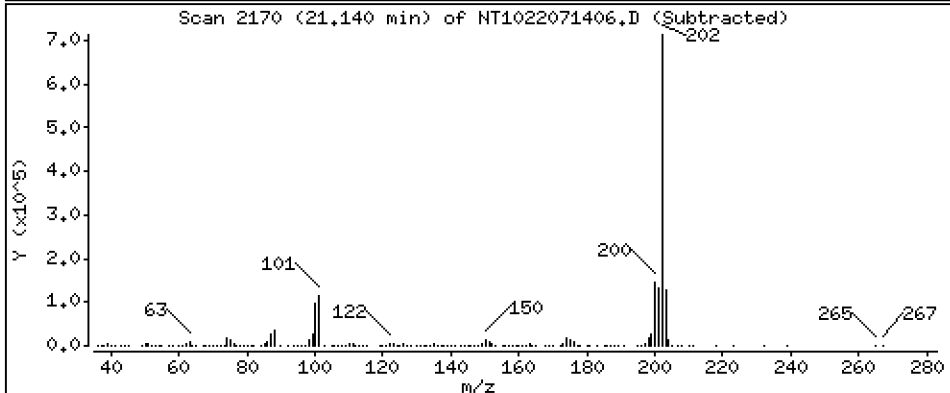
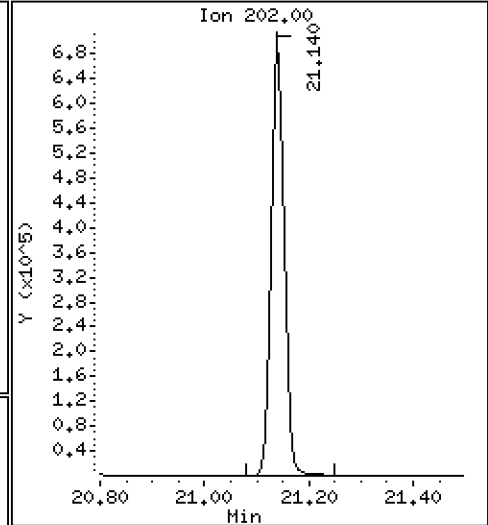
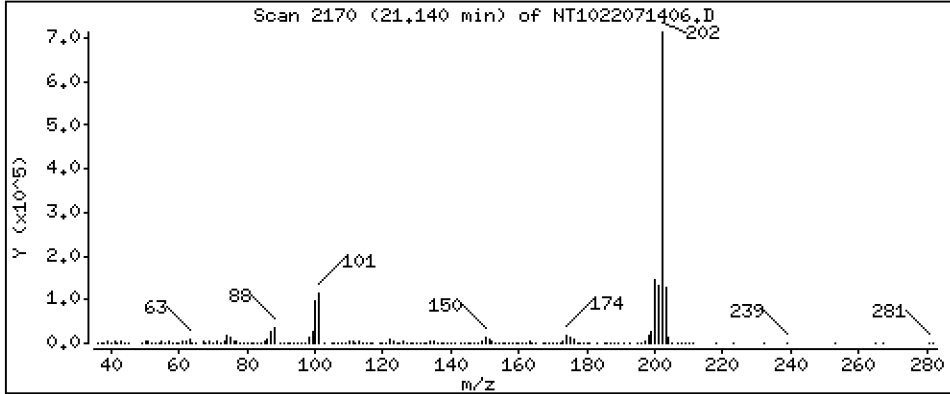
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 5,185 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

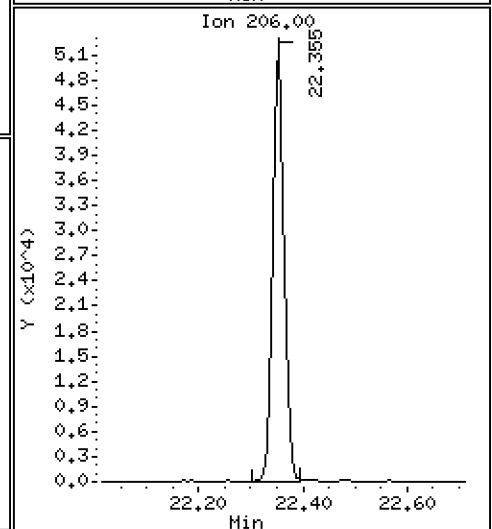
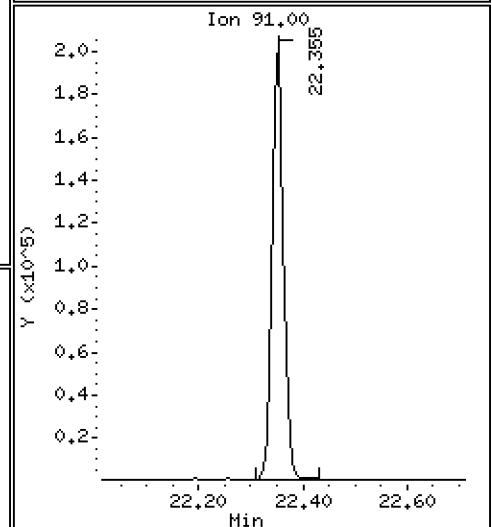
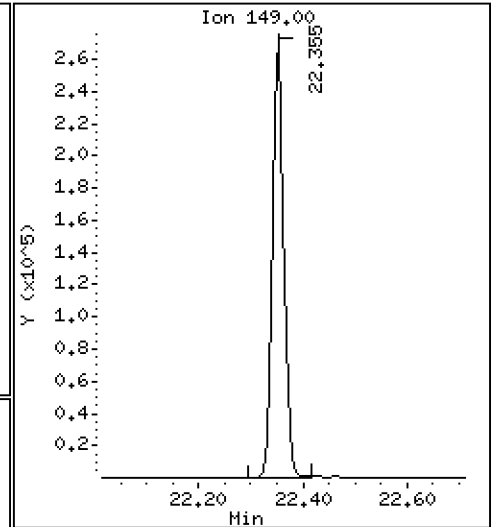
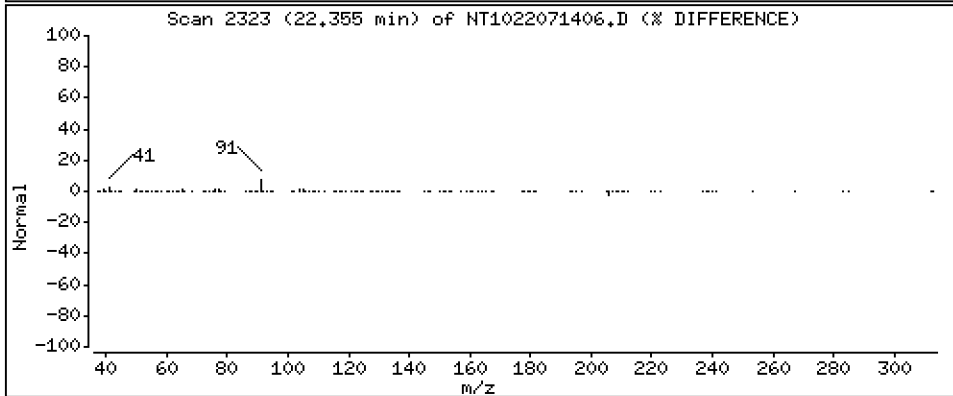
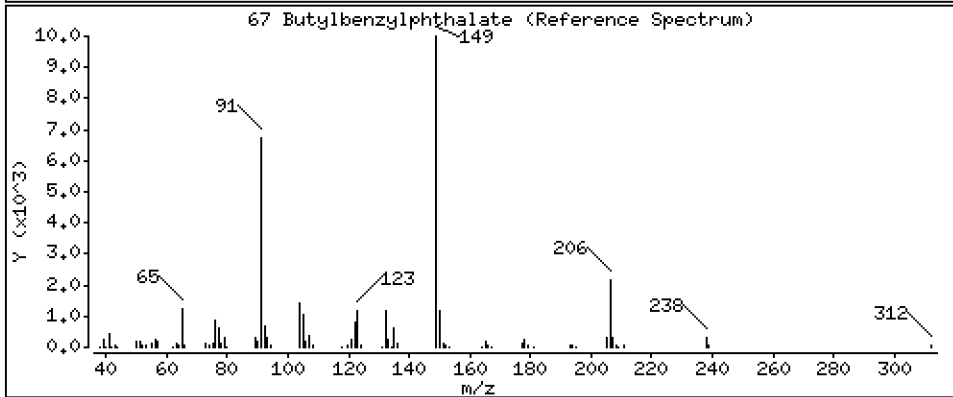
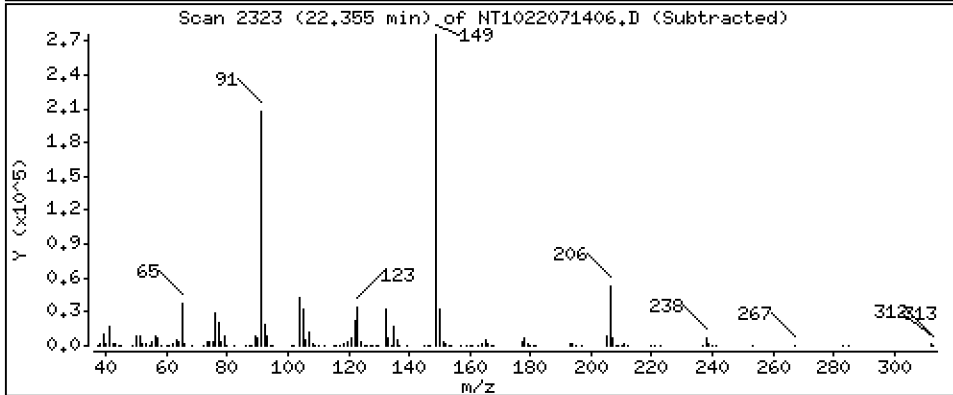
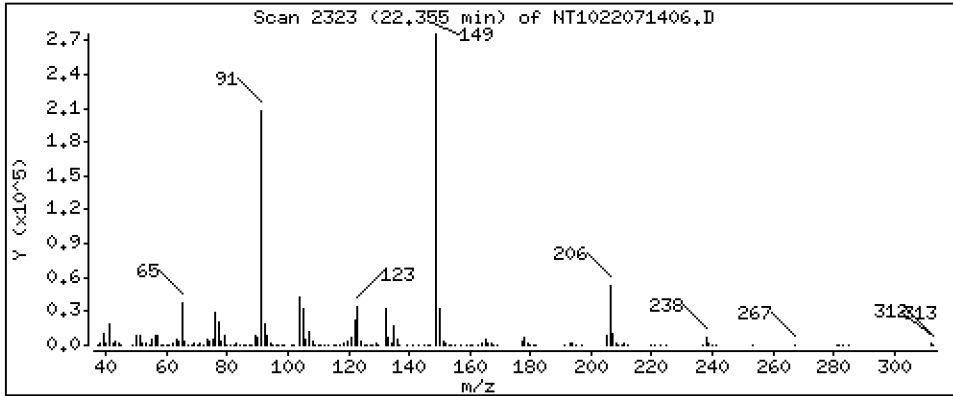
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,671 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

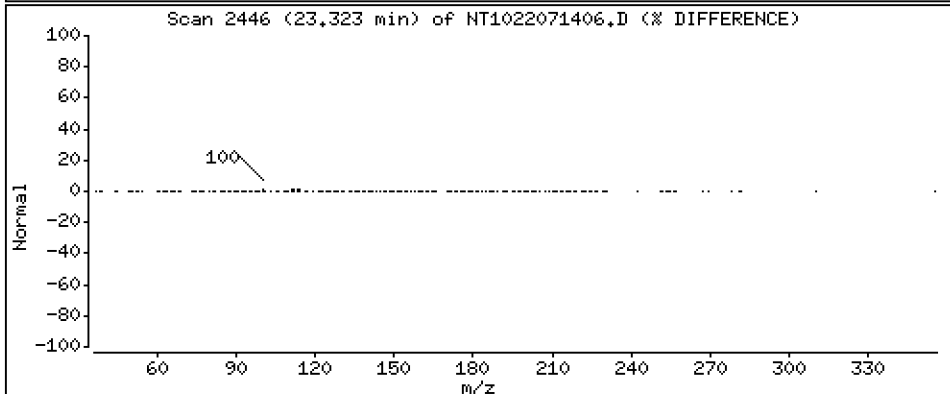
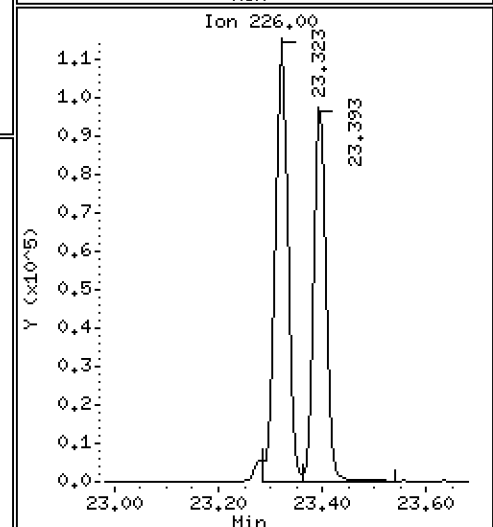
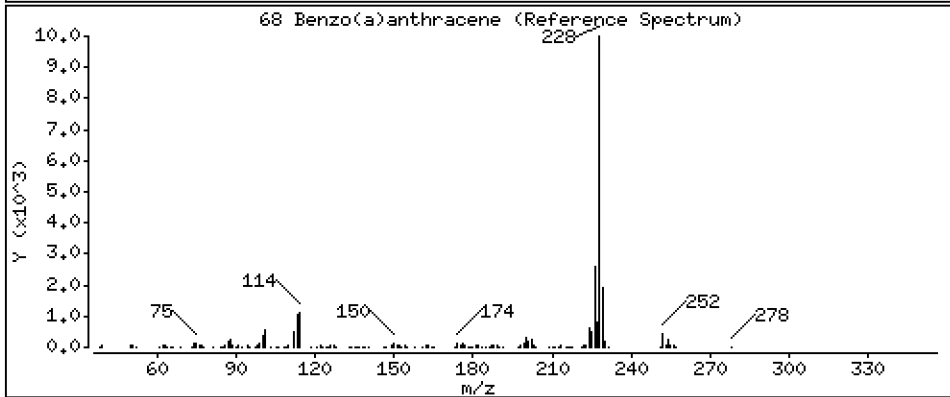
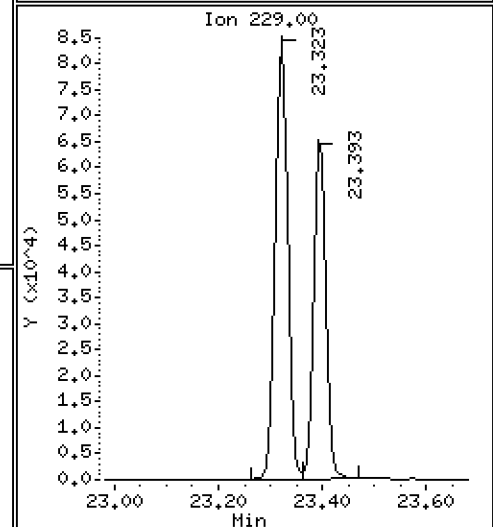
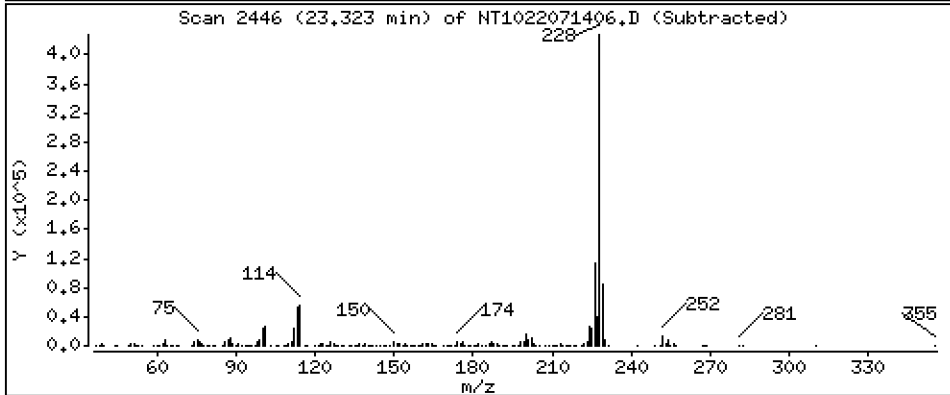
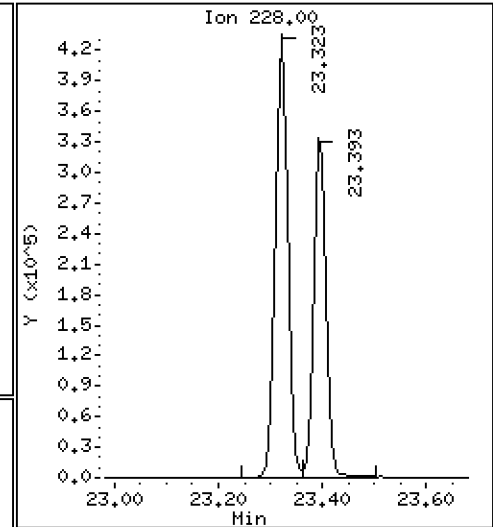
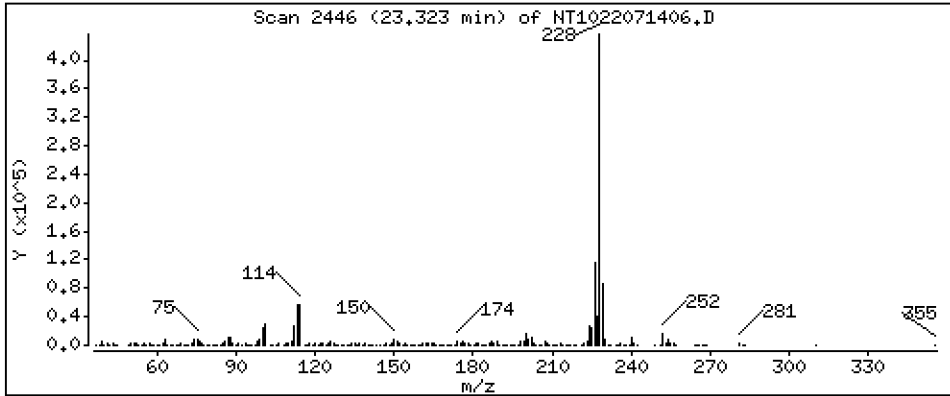
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,537 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

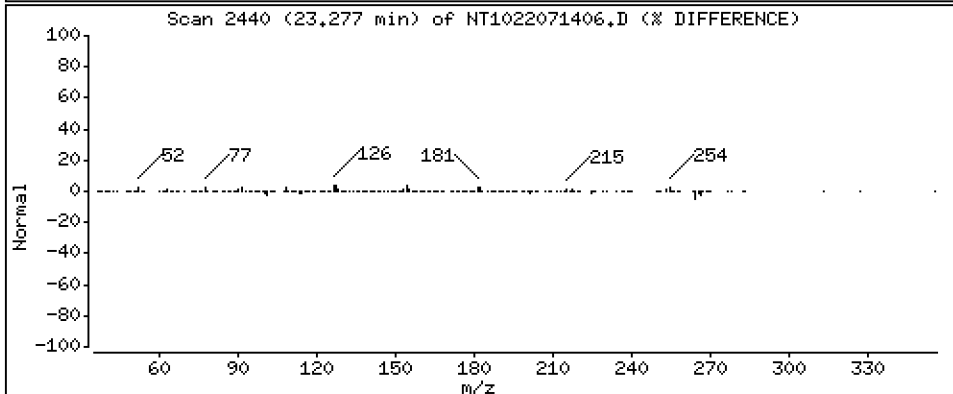
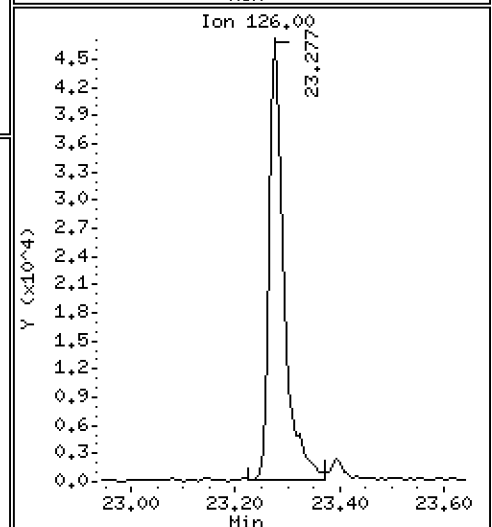
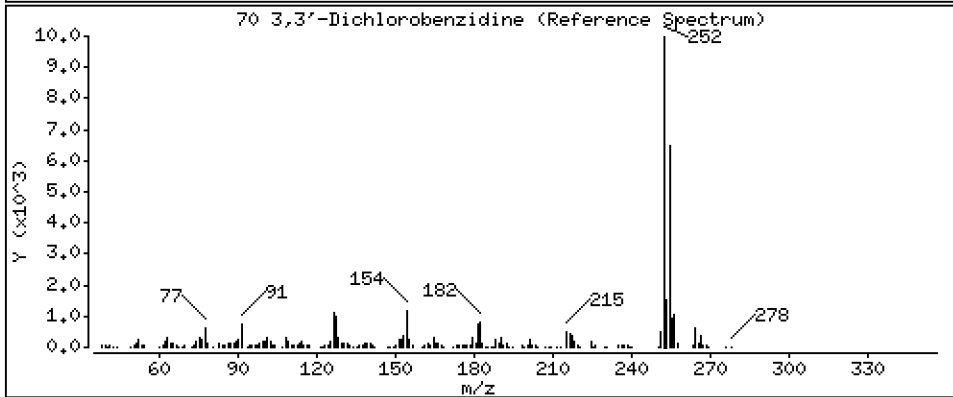
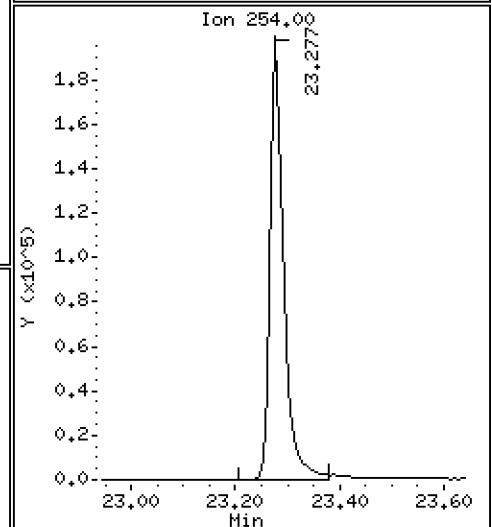
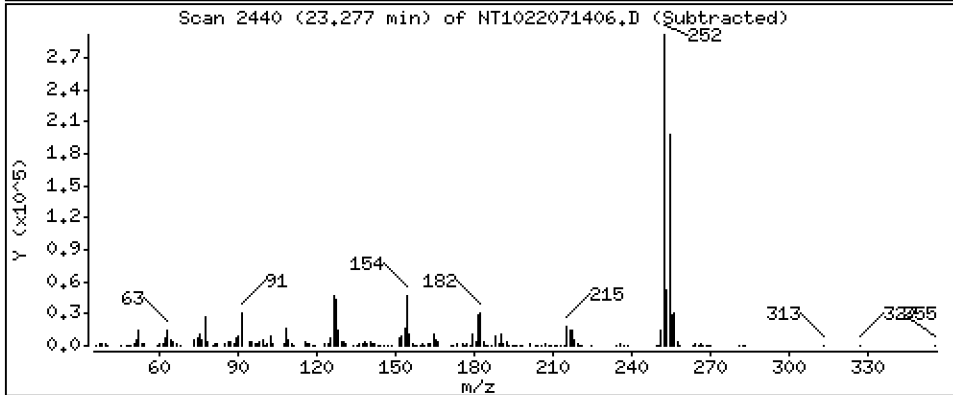
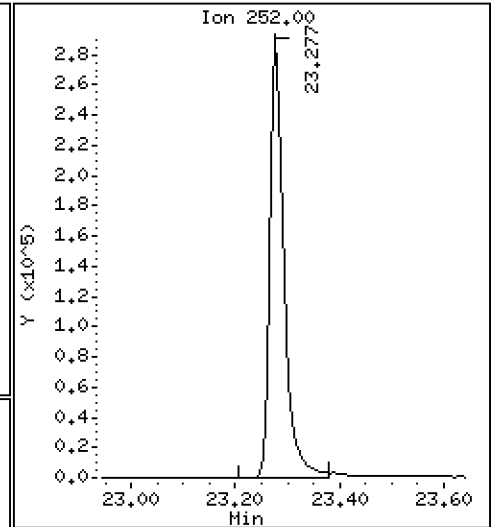
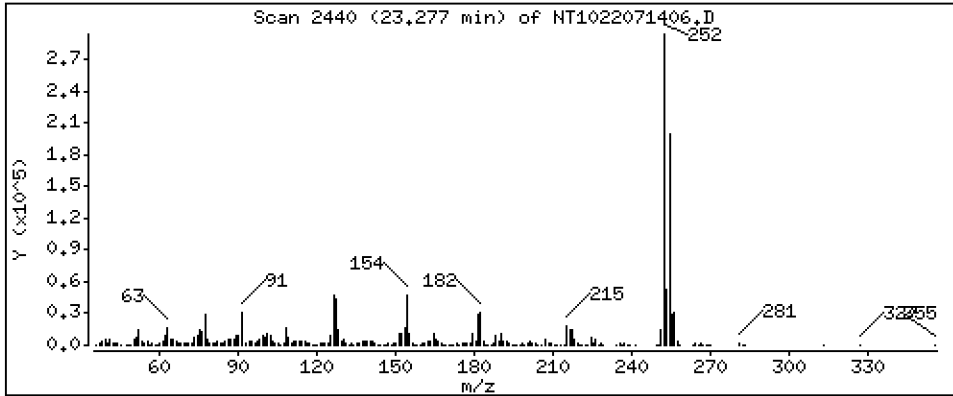
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 10,86 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

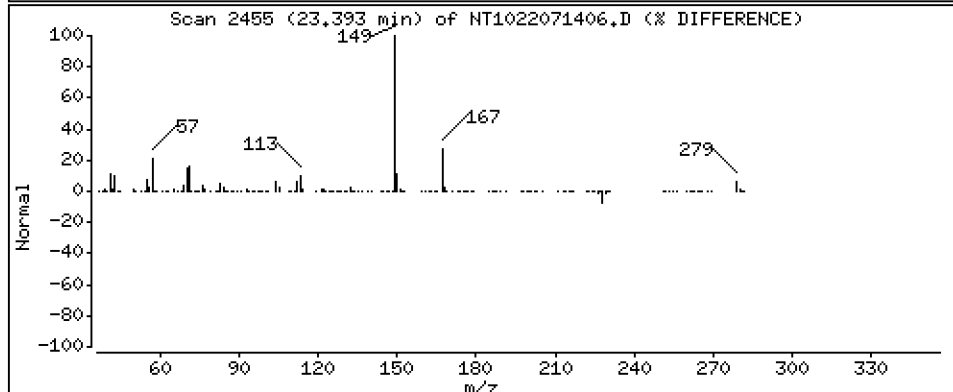
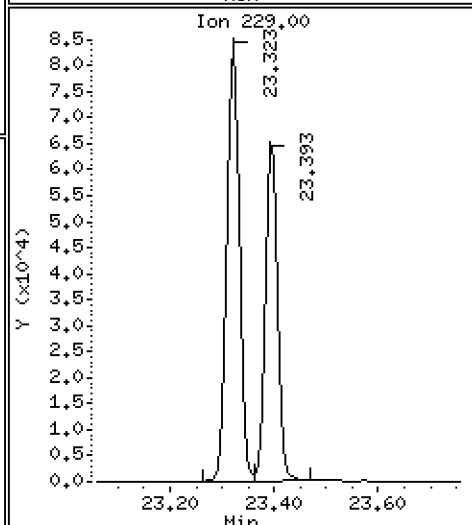
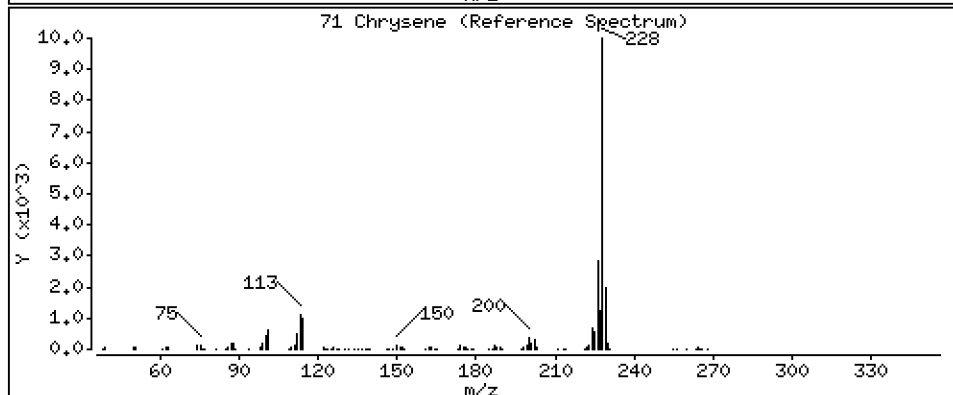
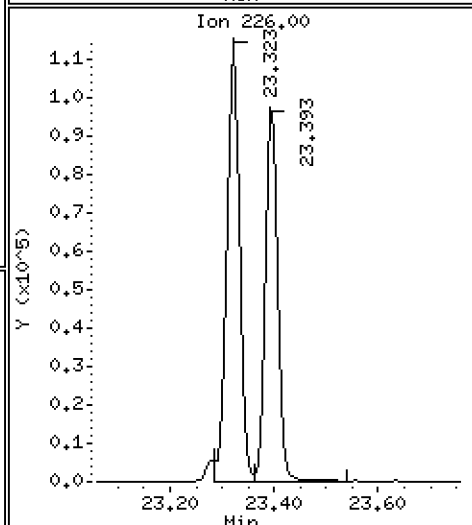
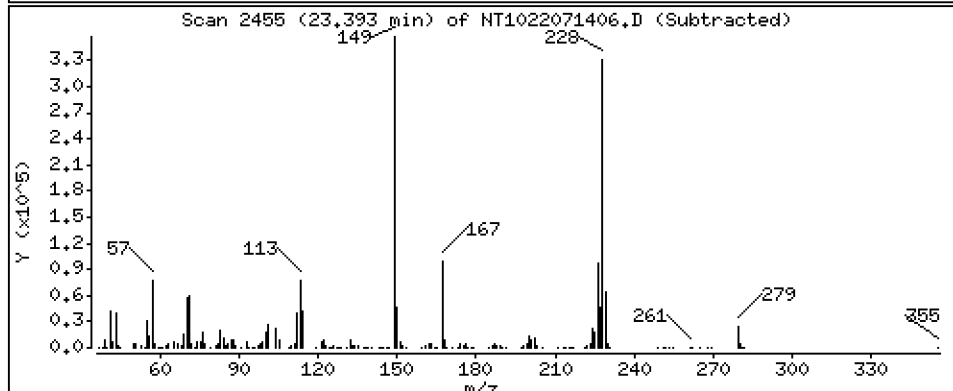
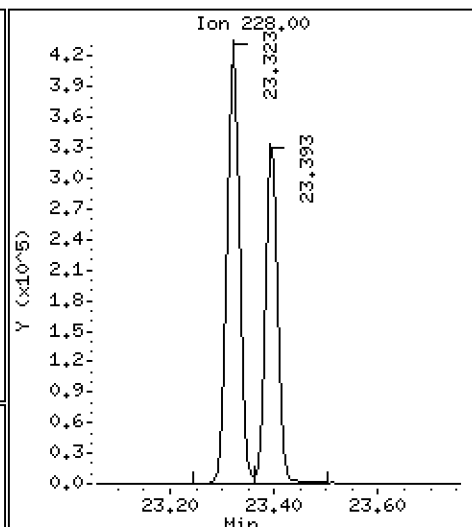
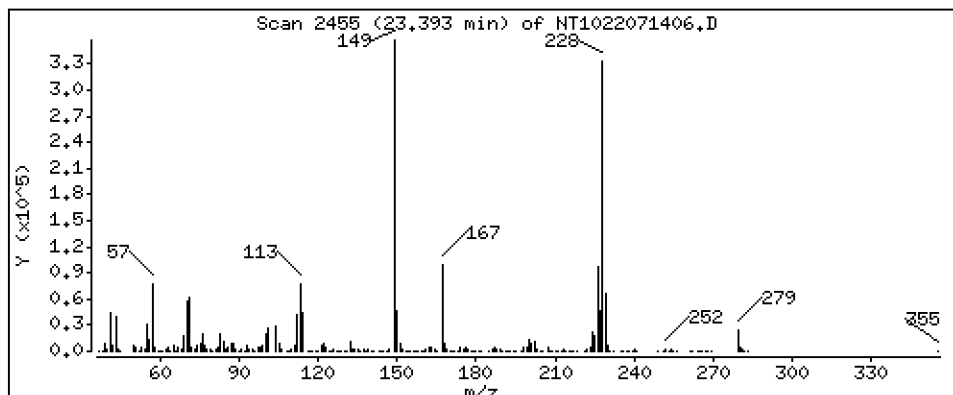
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,970 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

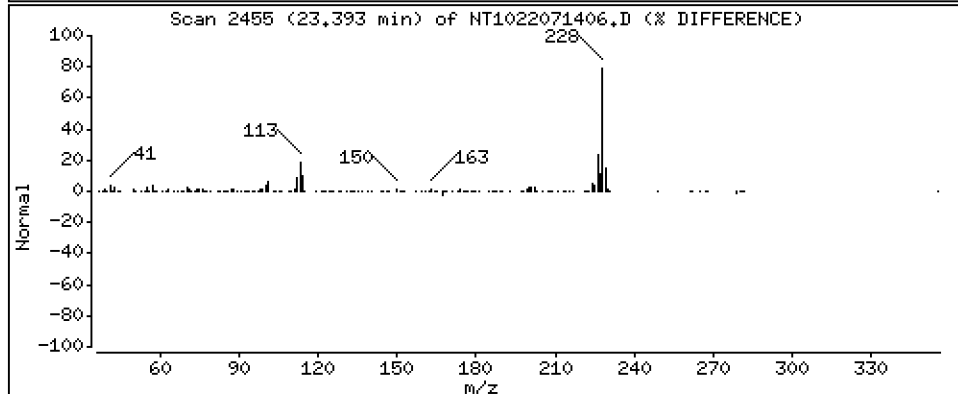
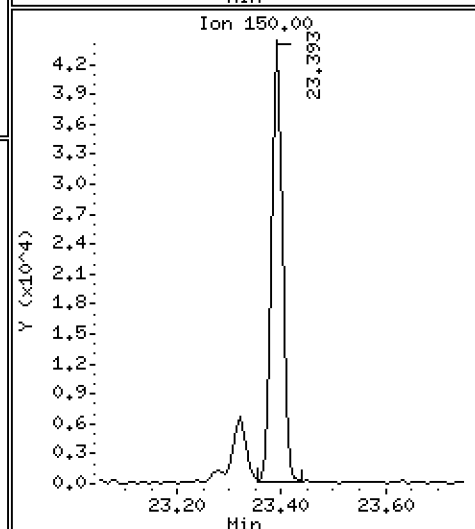
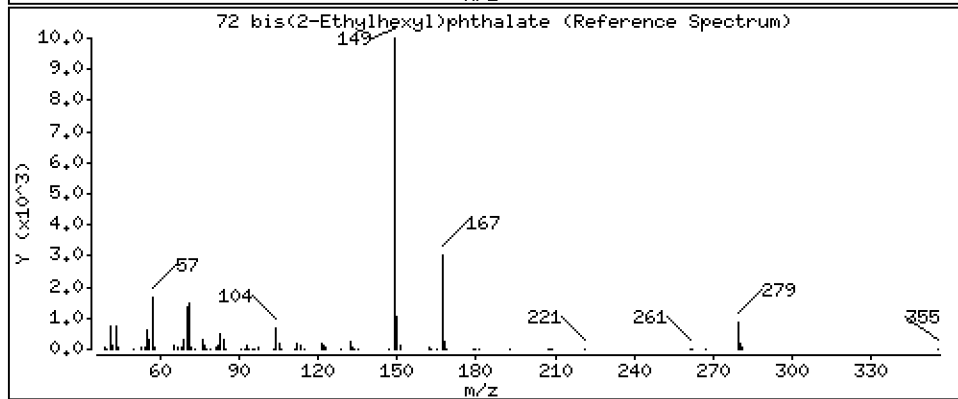
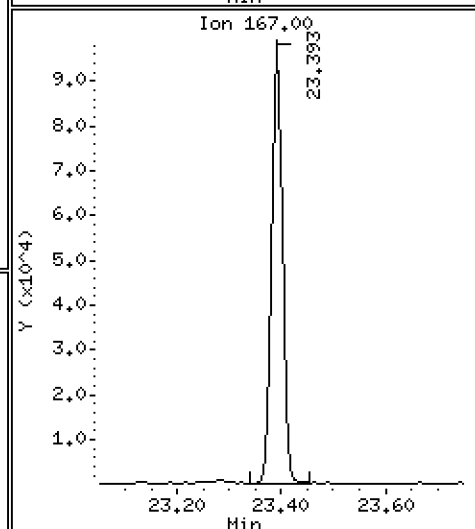
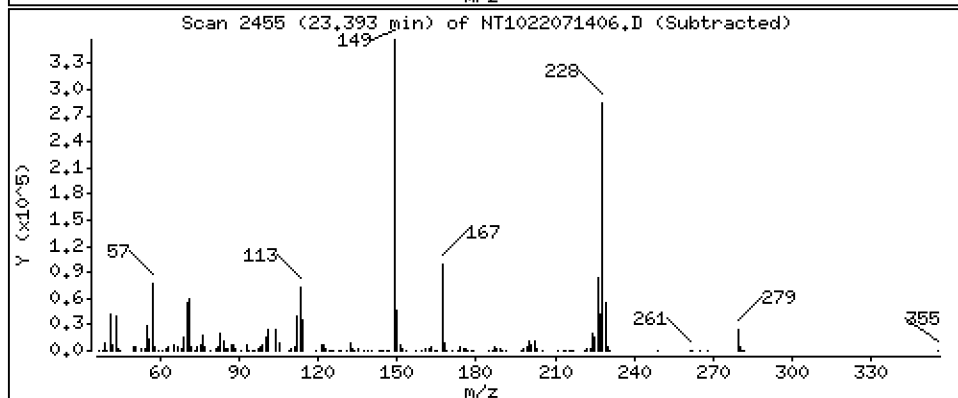
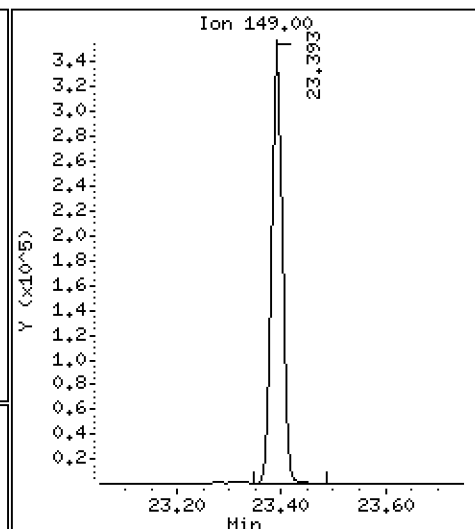
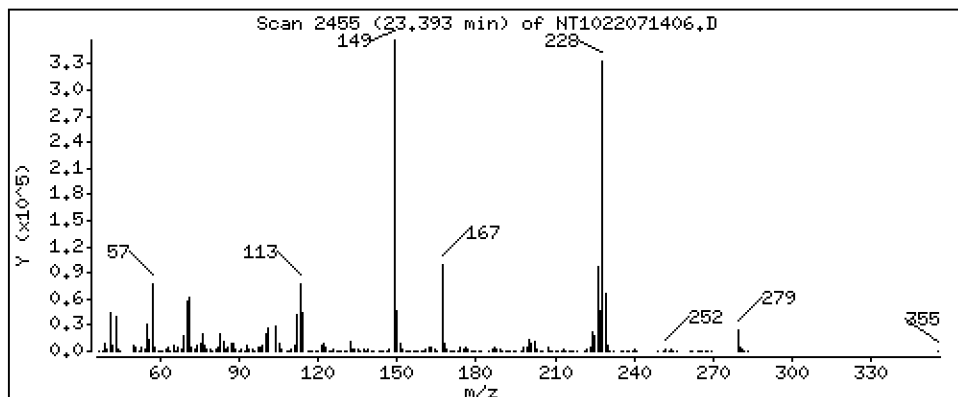
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 6,297 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

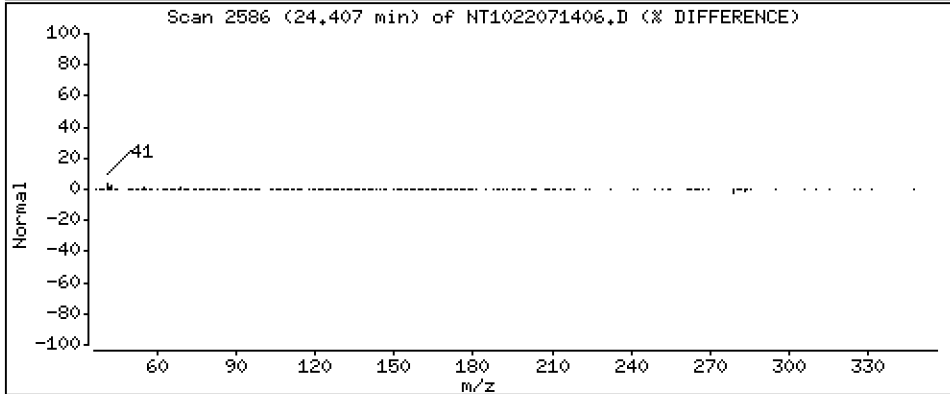
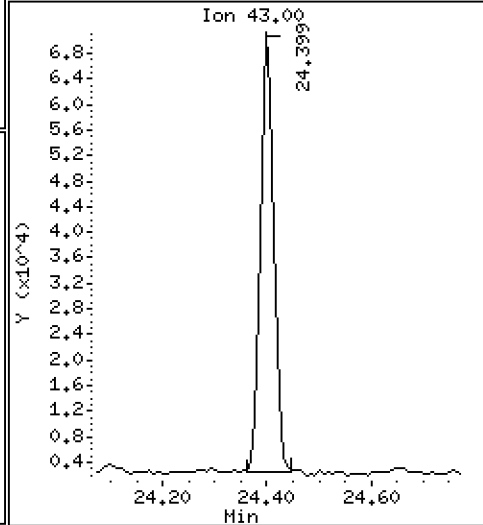
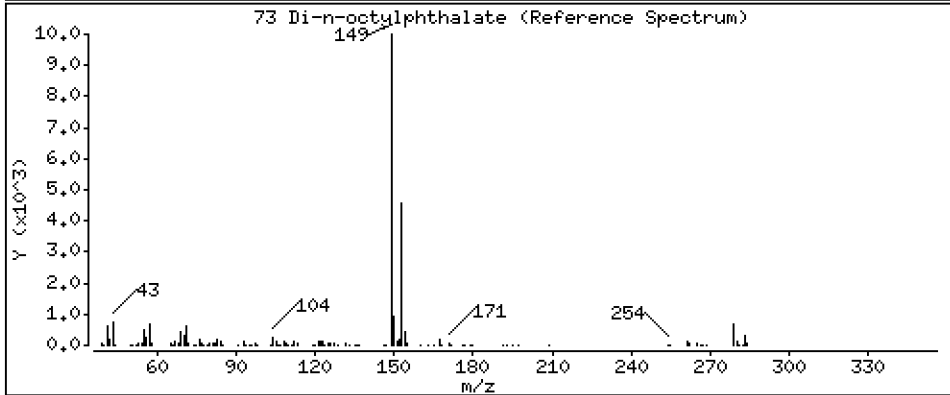
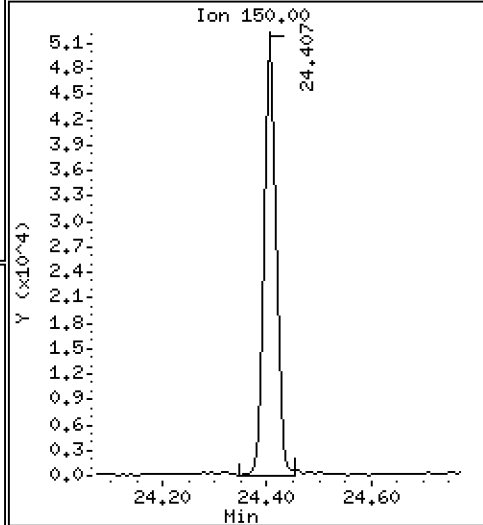
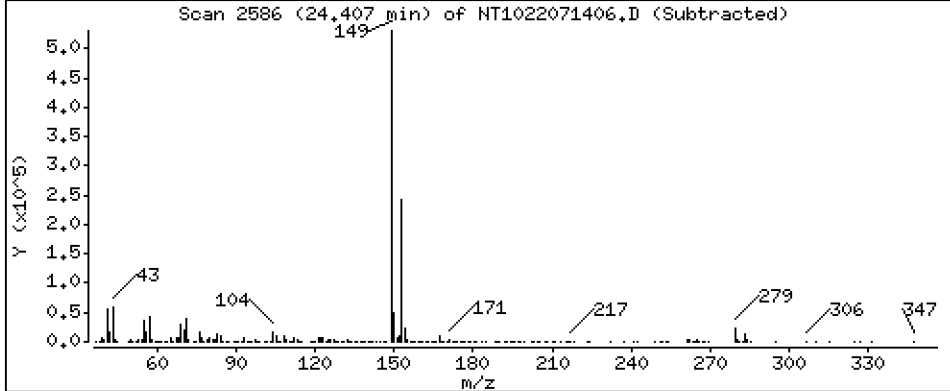
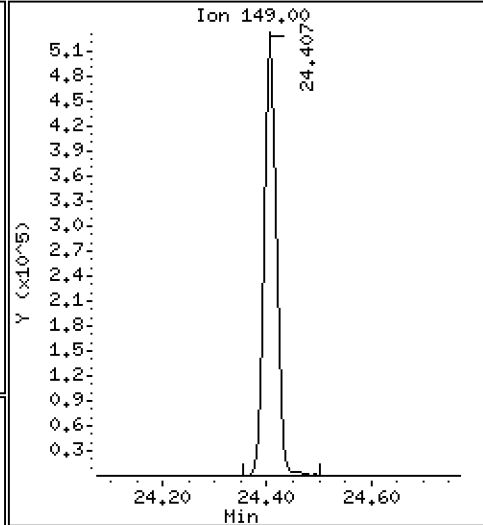
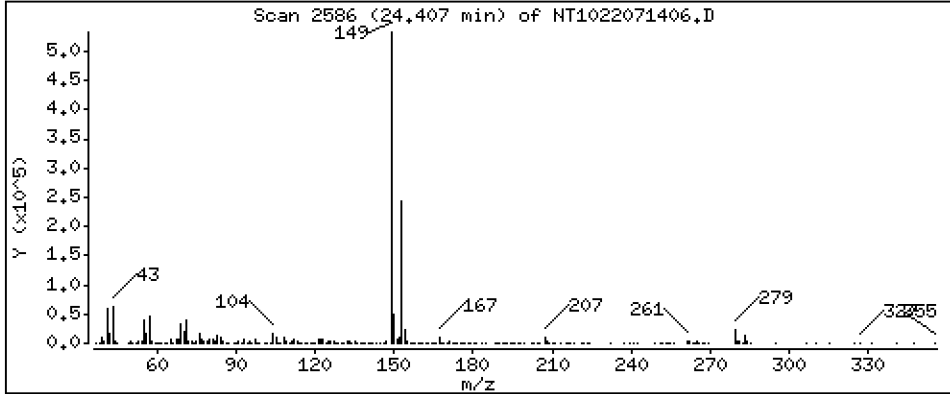
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,513 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

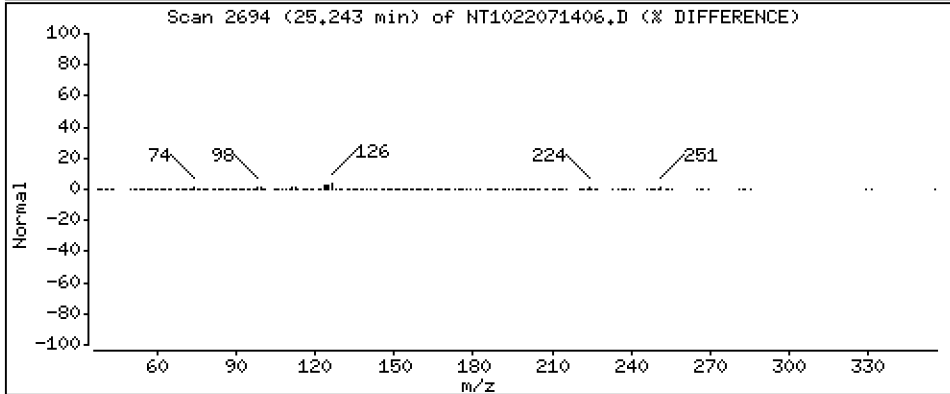
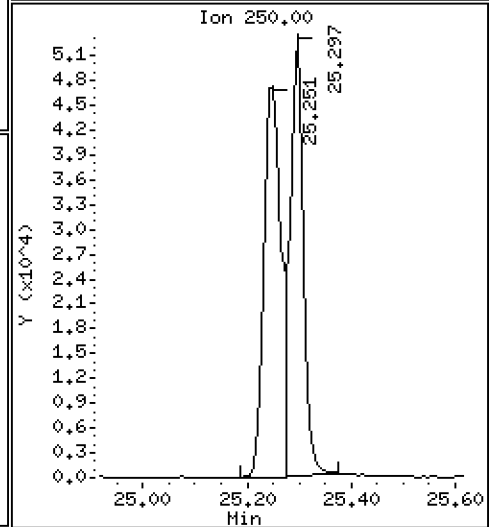
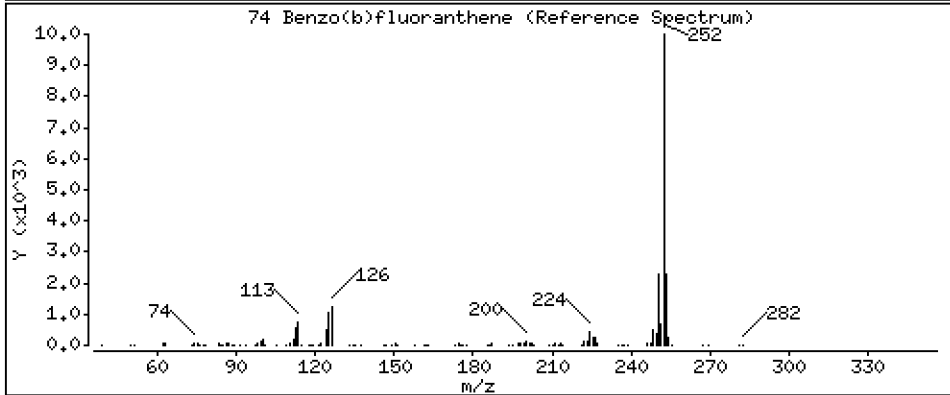
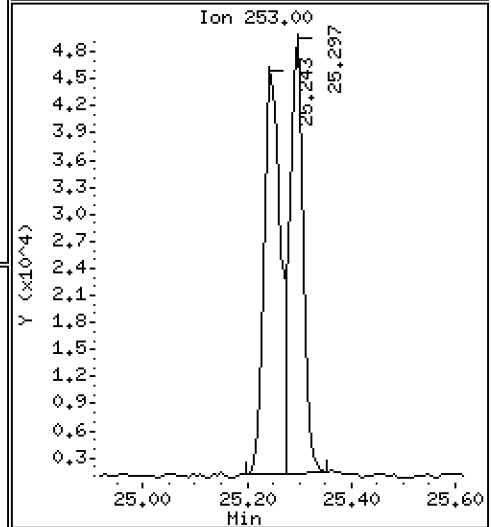
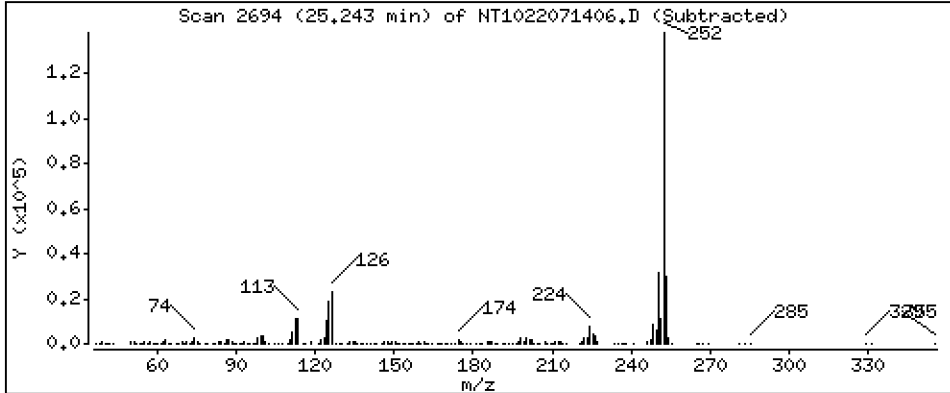
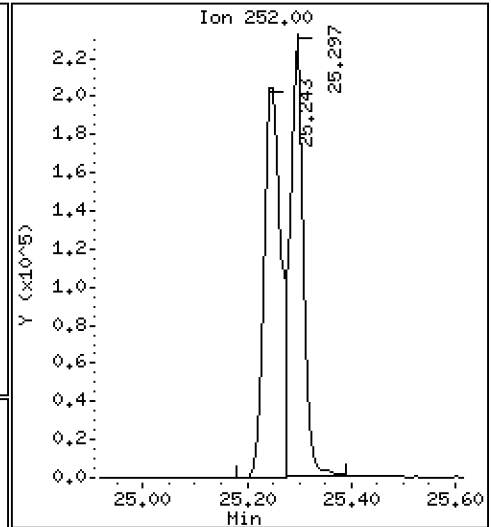
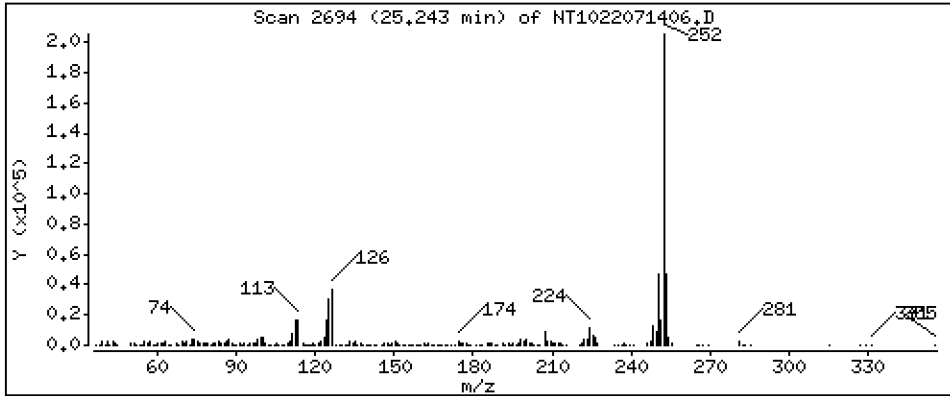
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 5,026 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

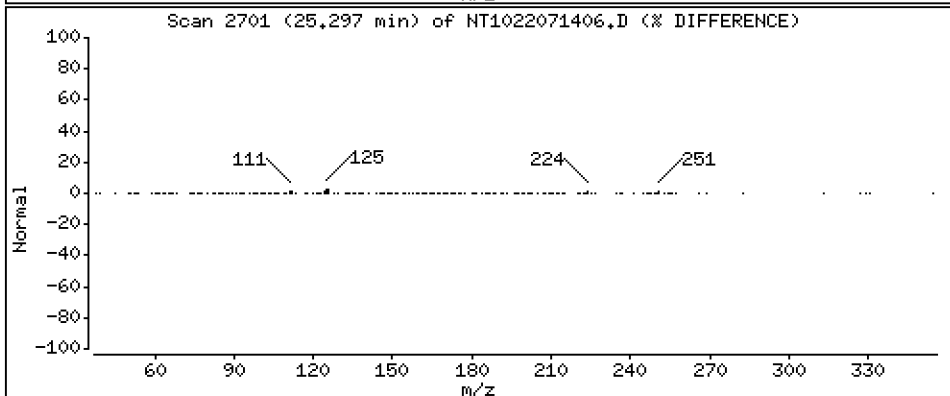
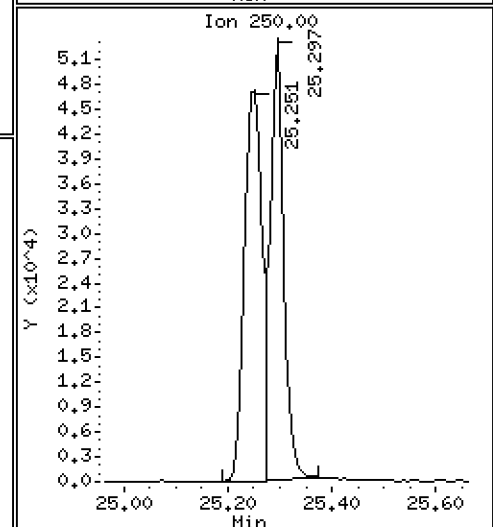
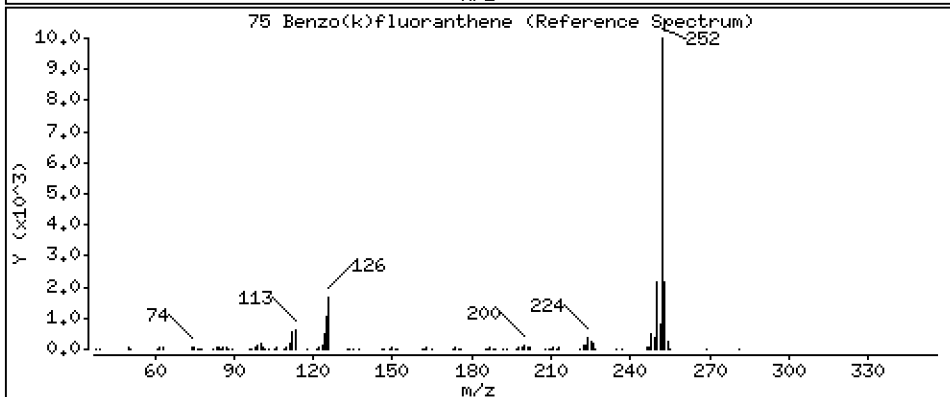
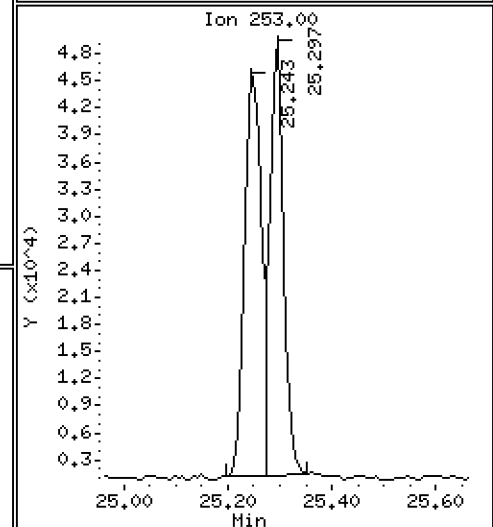
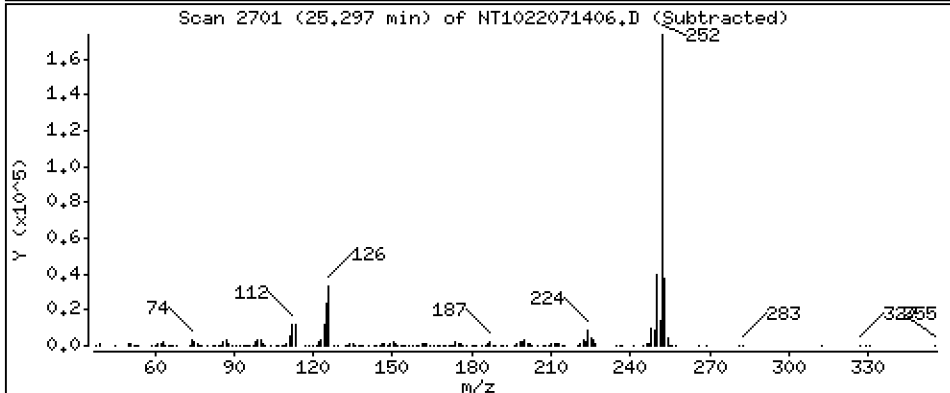
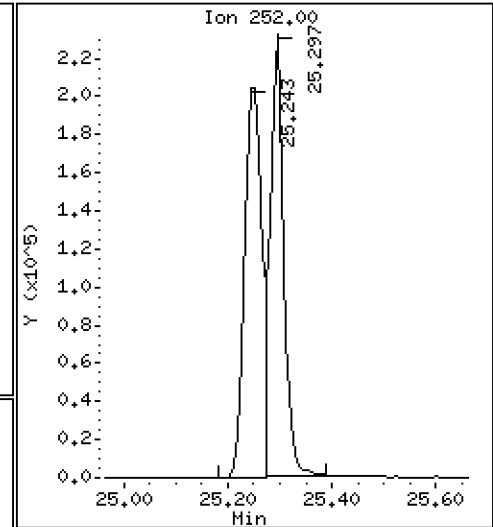
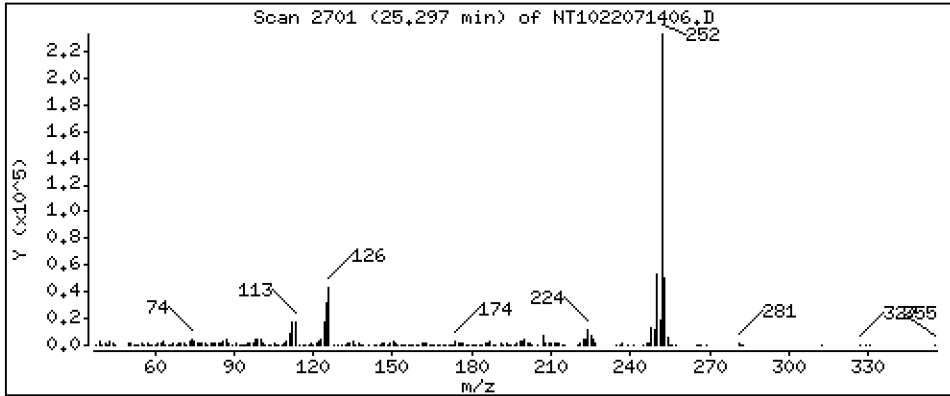
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,815 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

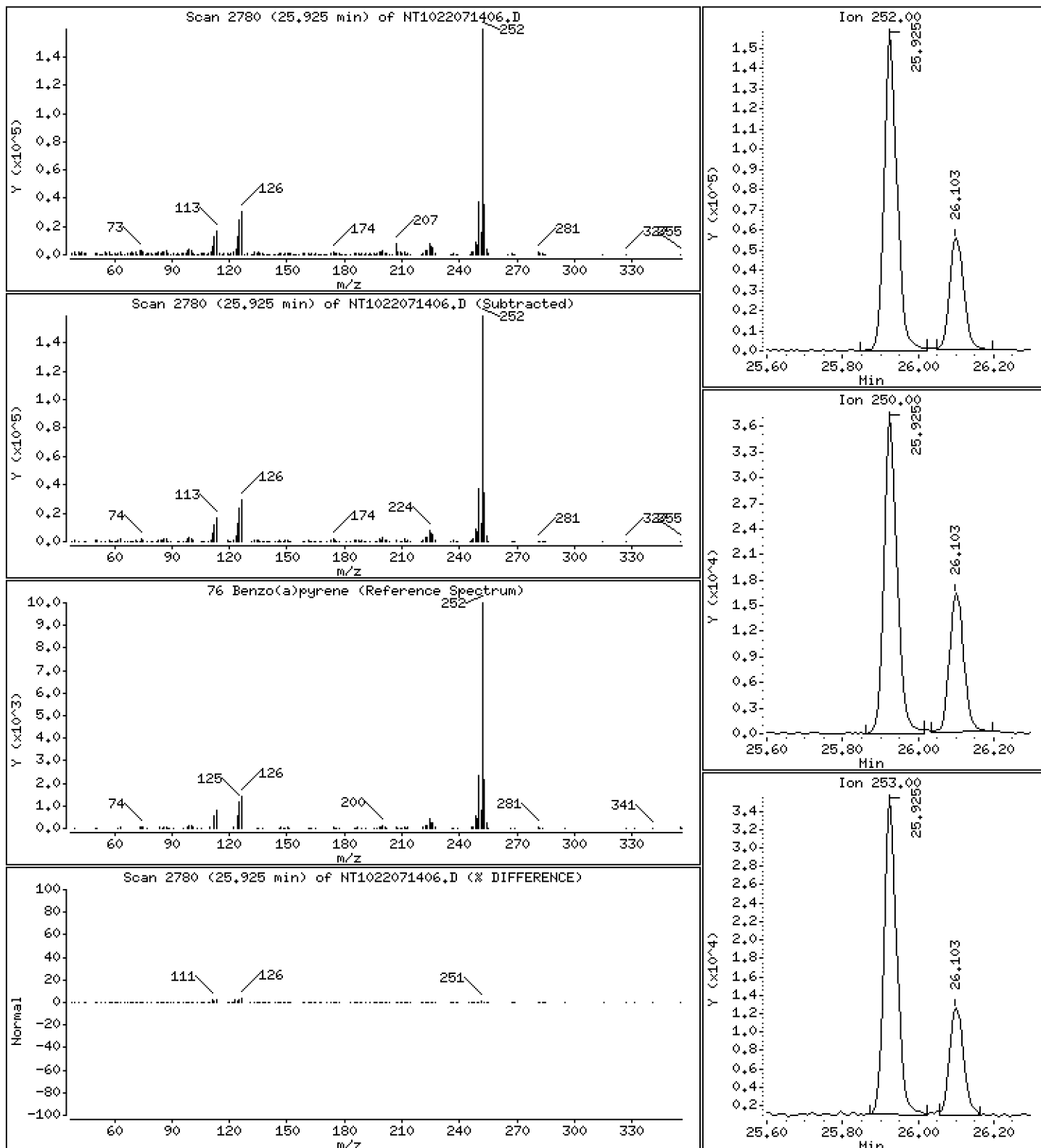
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,815 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

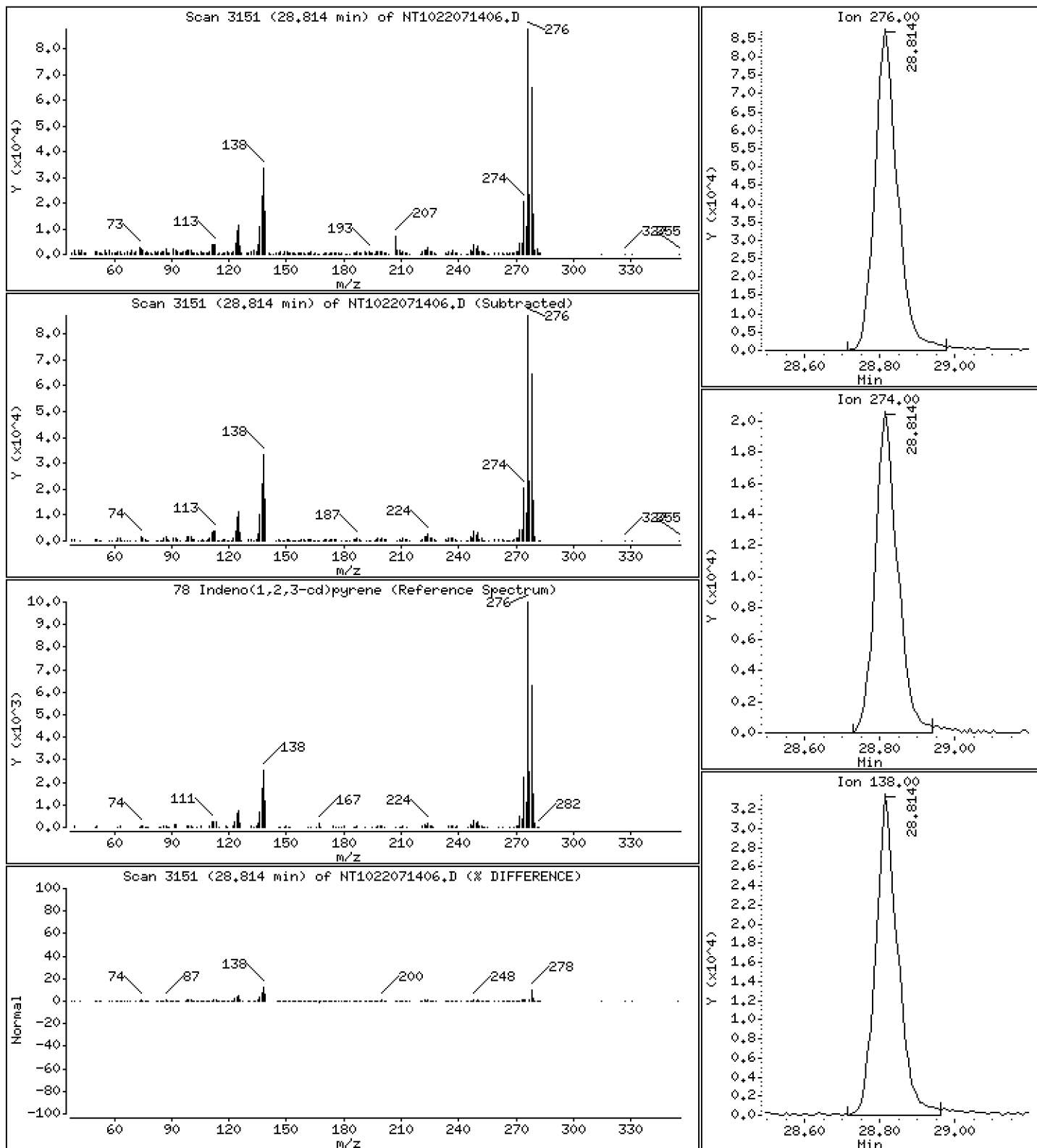
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,436 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

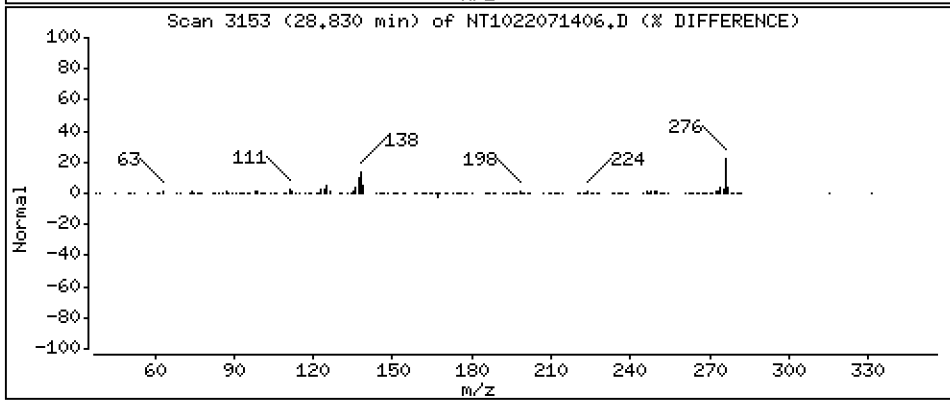
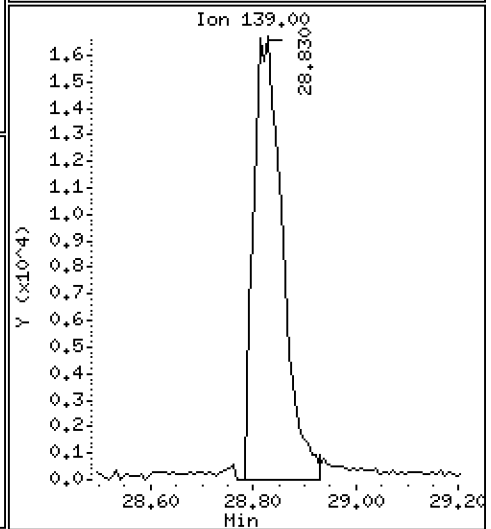
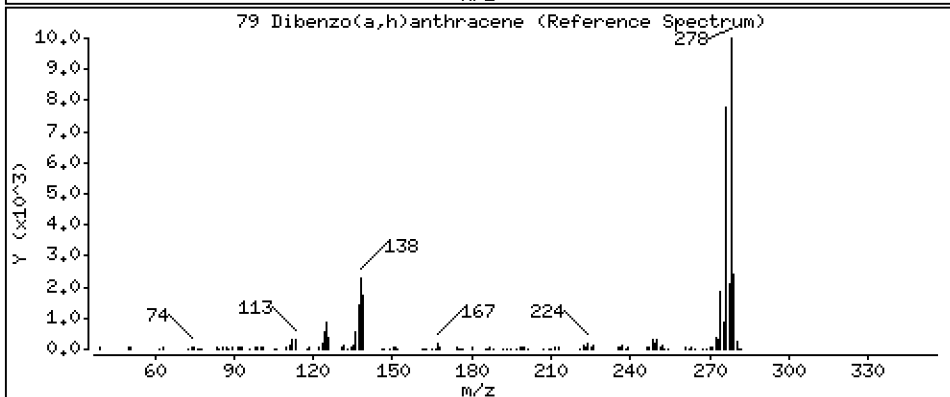
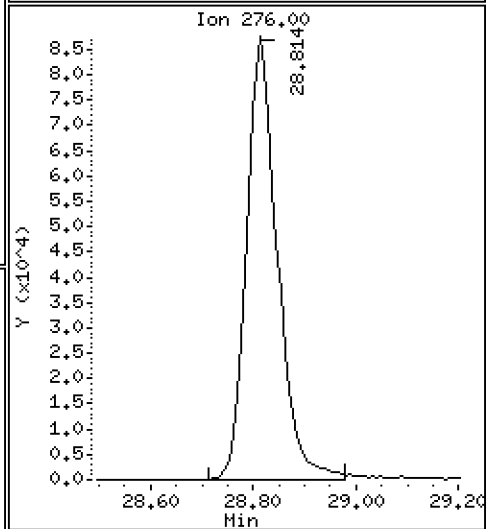
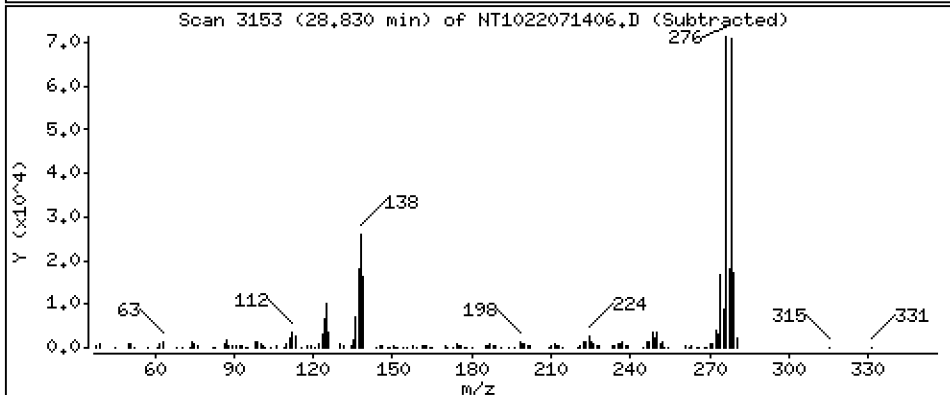
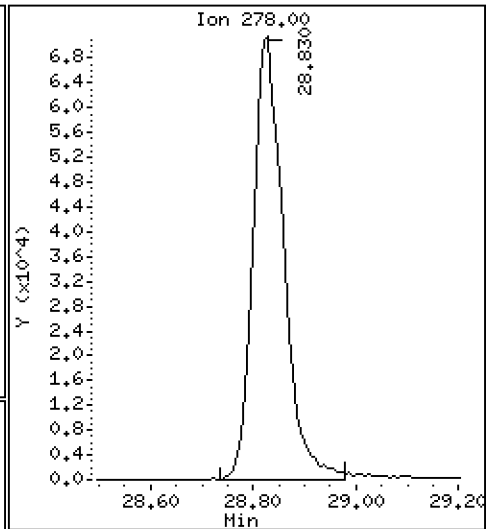
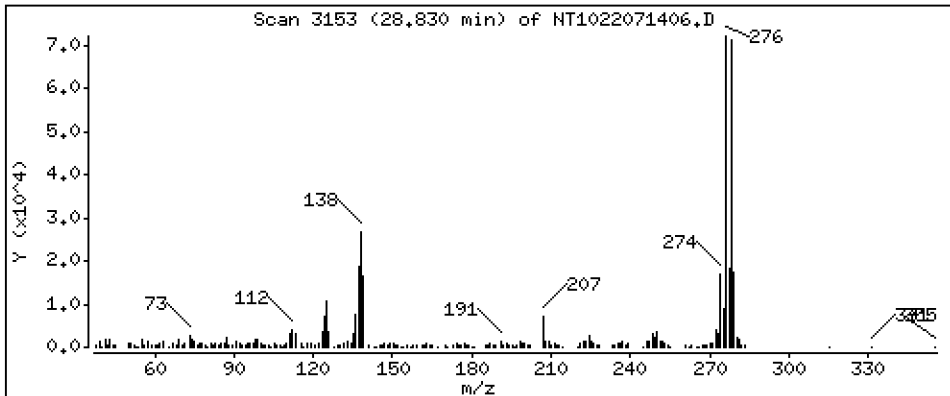
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,658 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

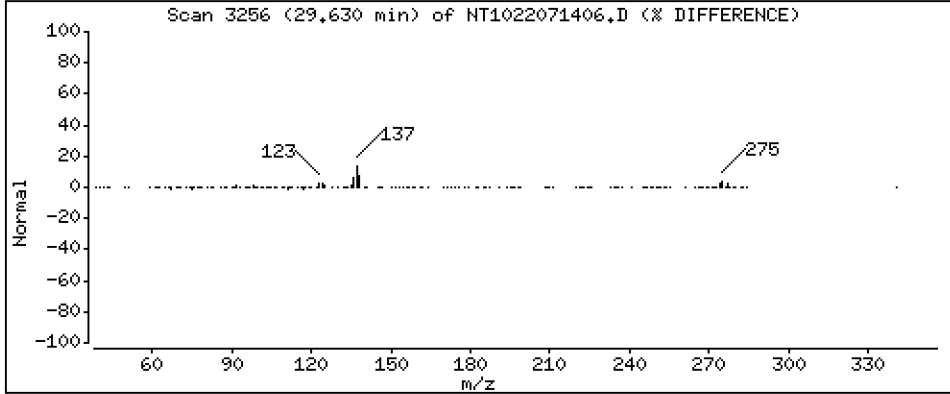
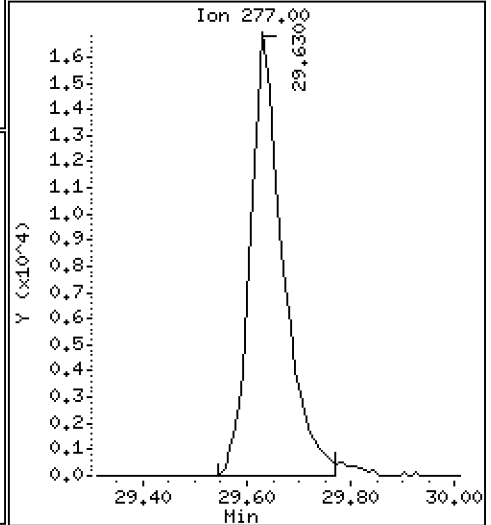
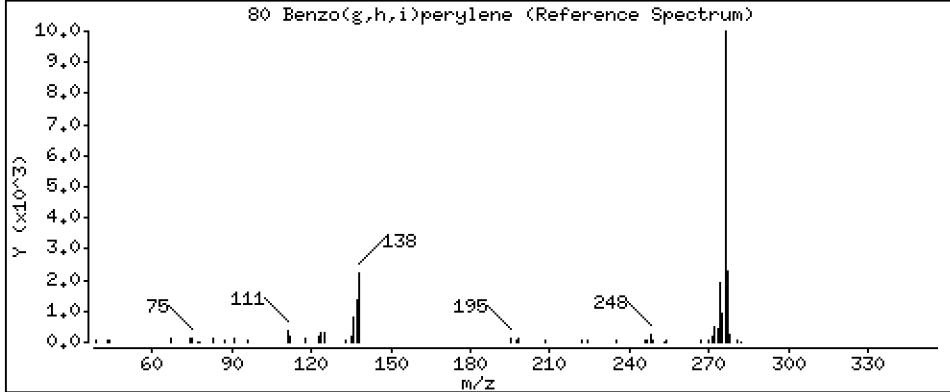
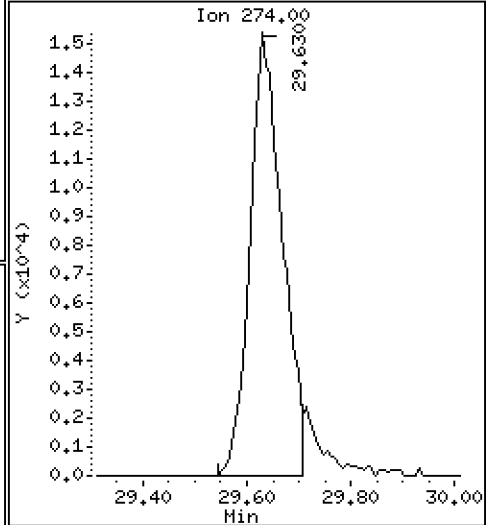
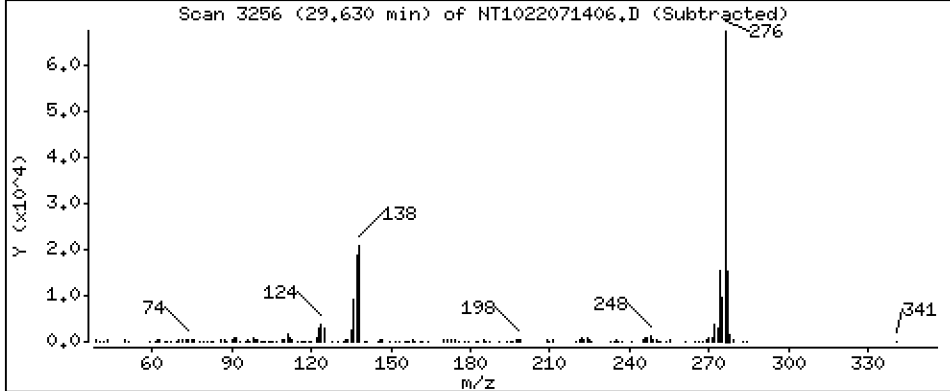
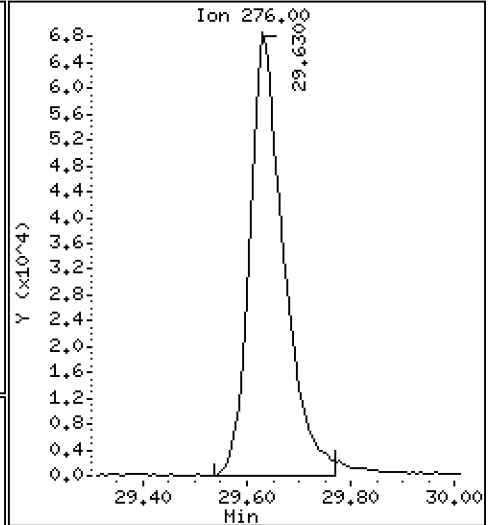
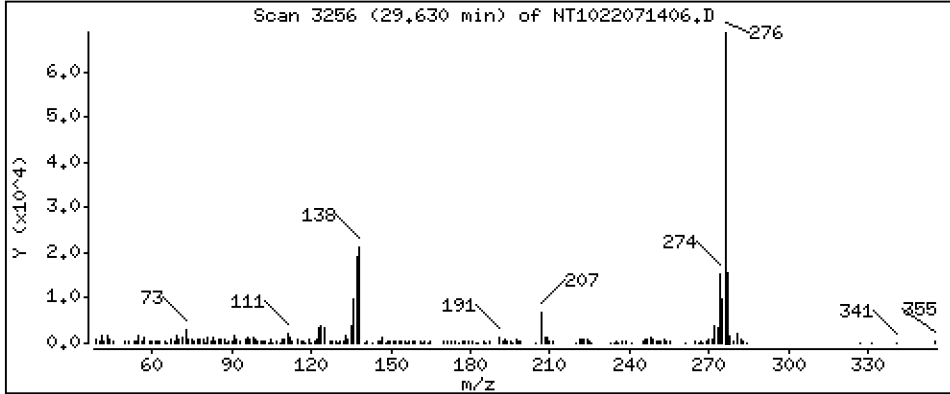
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,767 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

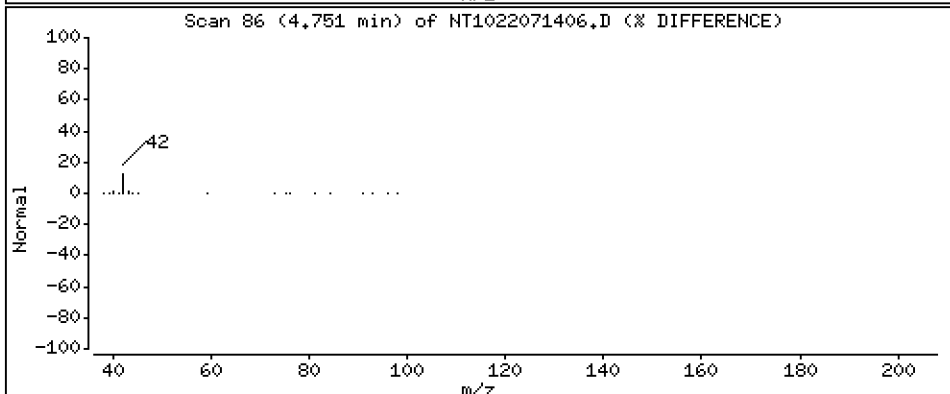
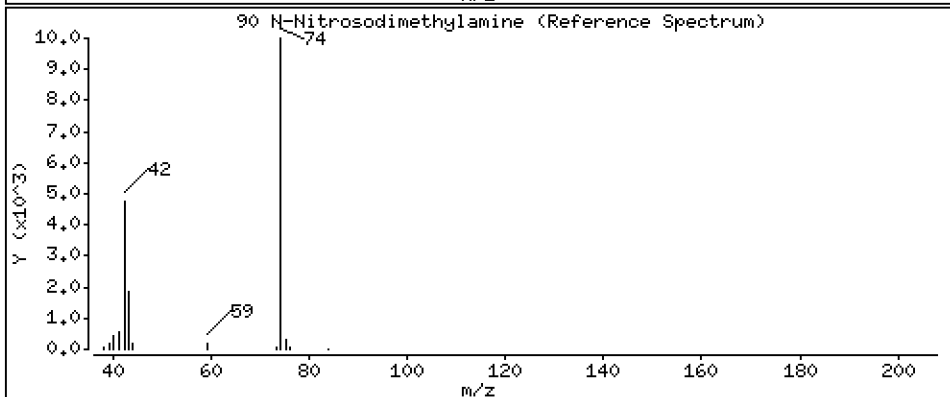
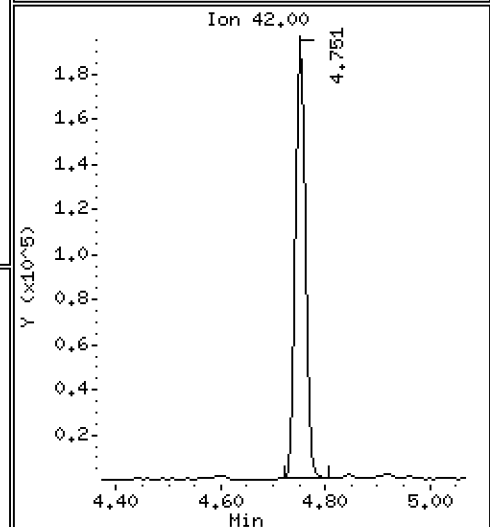
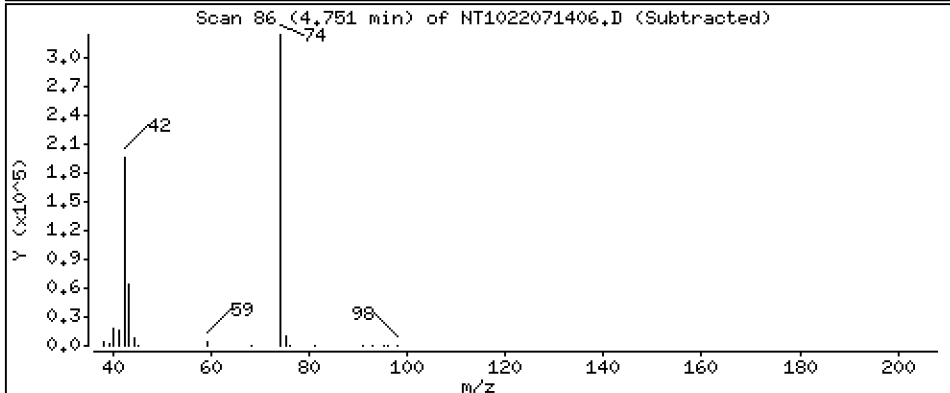
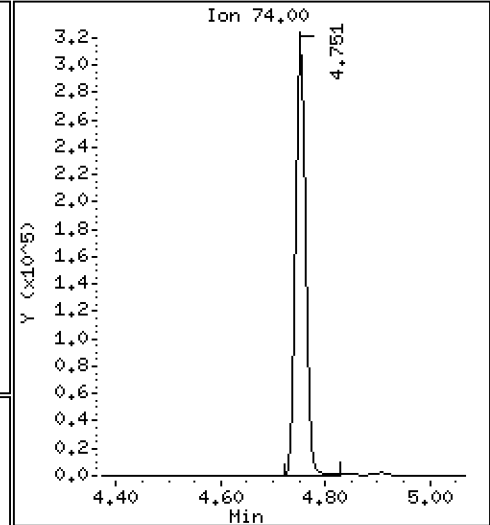
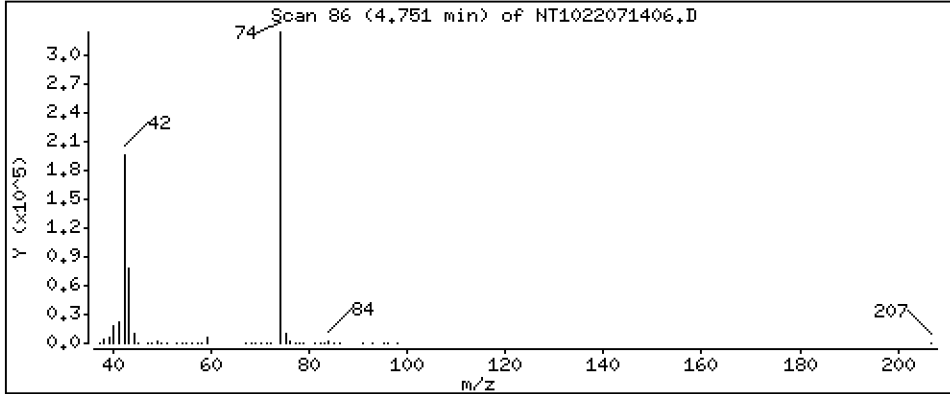
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 9.914 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

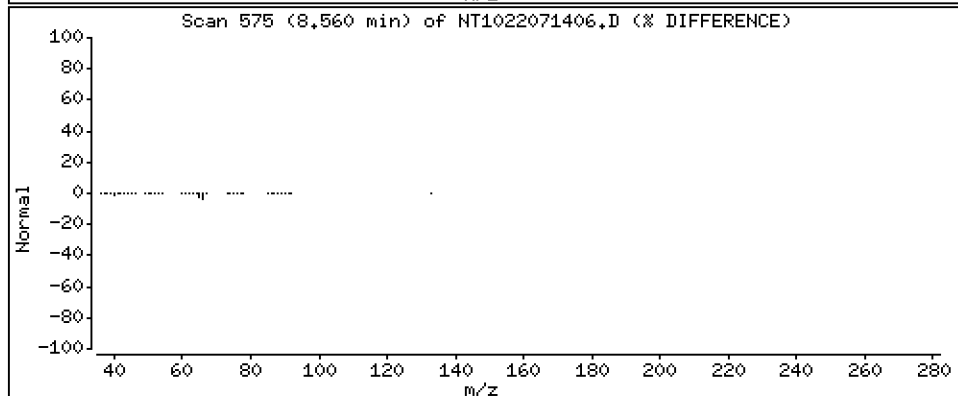
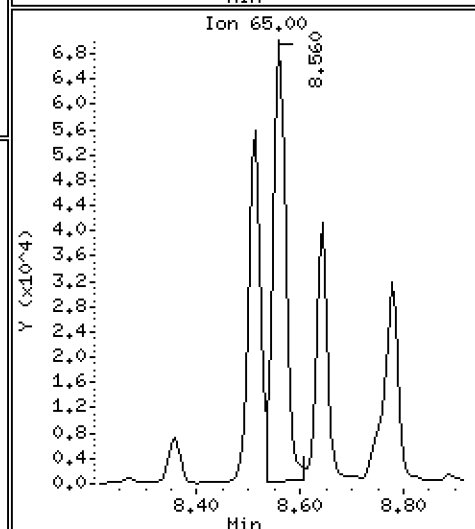
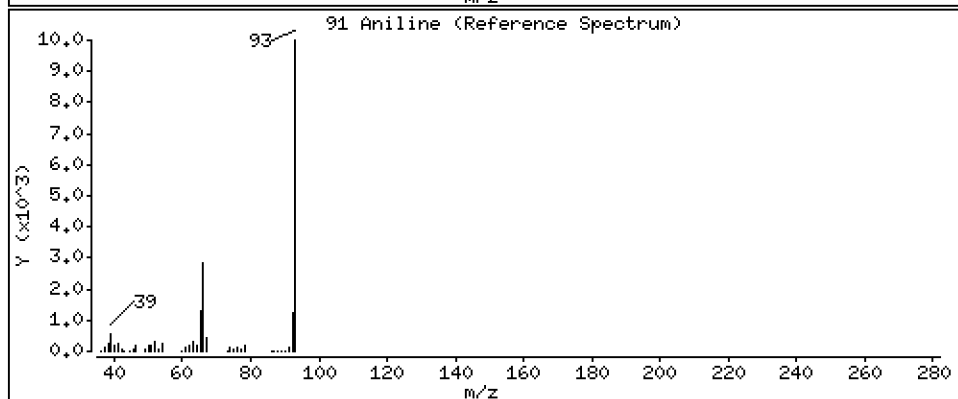
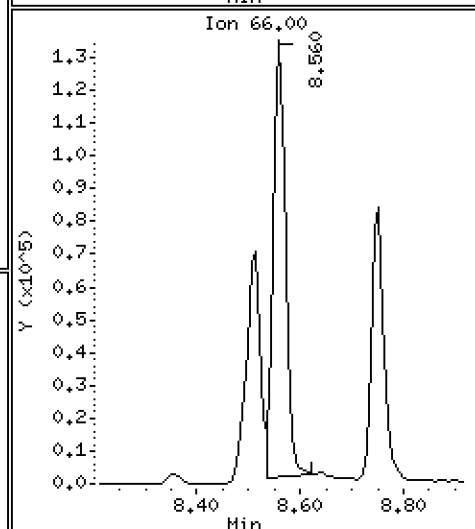
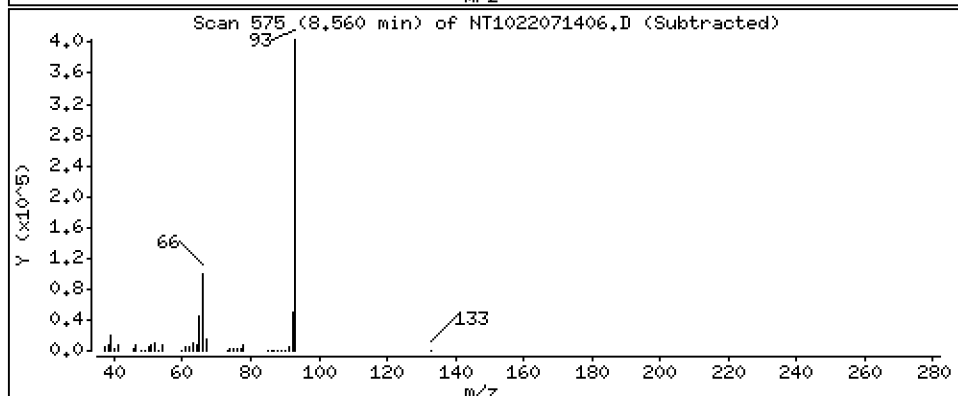
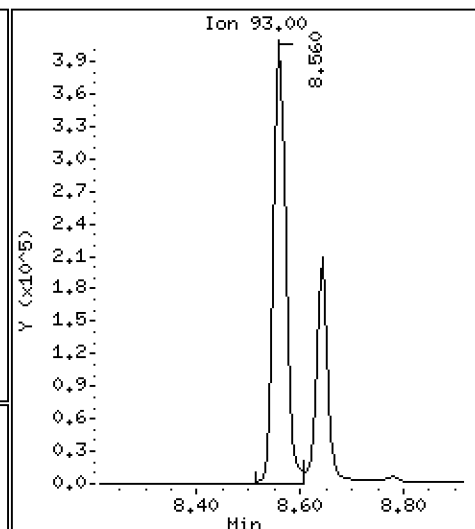
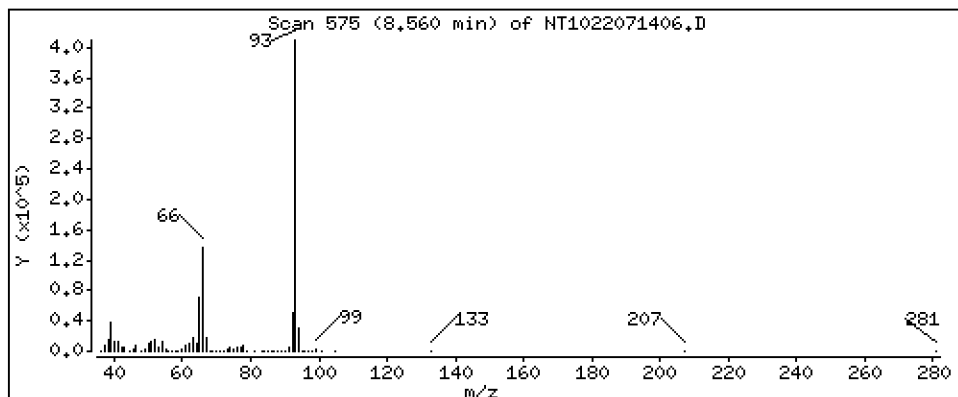
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 7,133 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

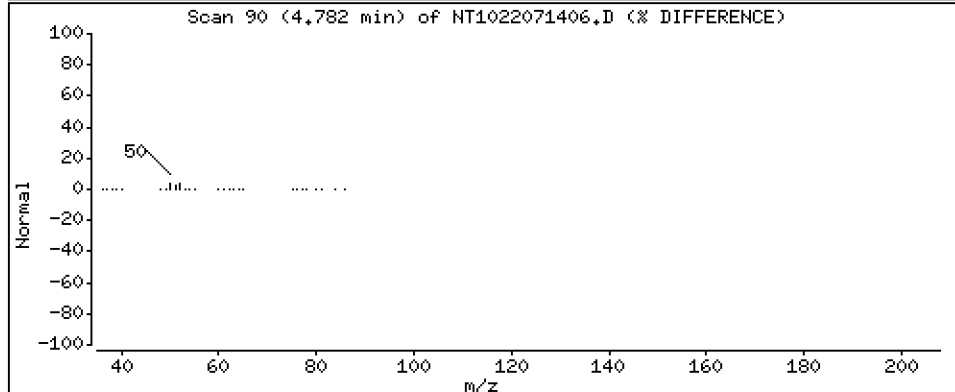
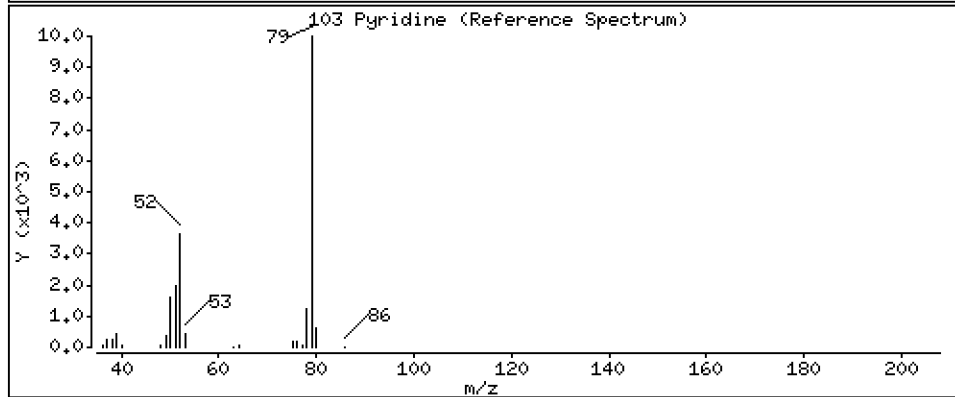
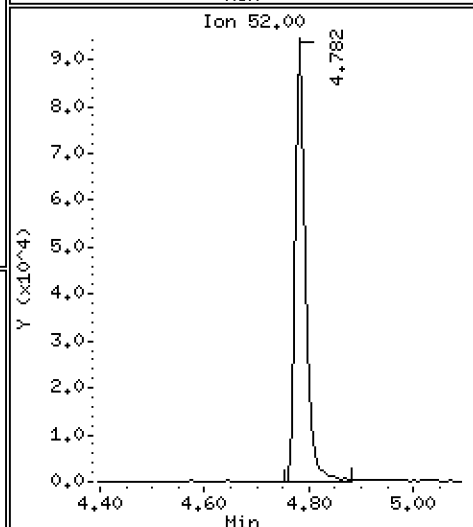
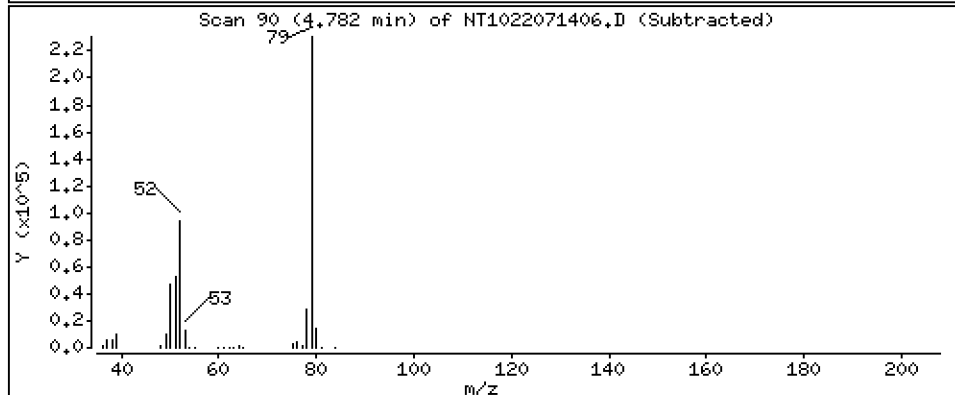
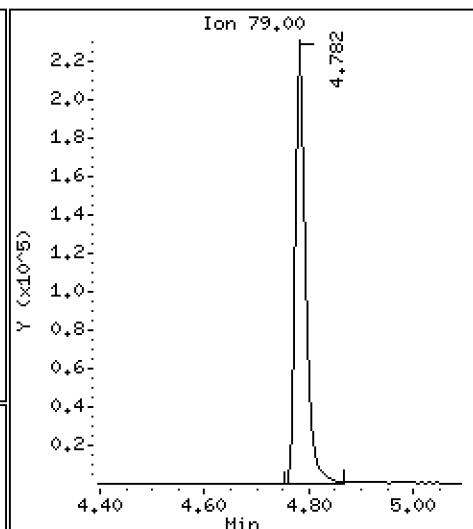
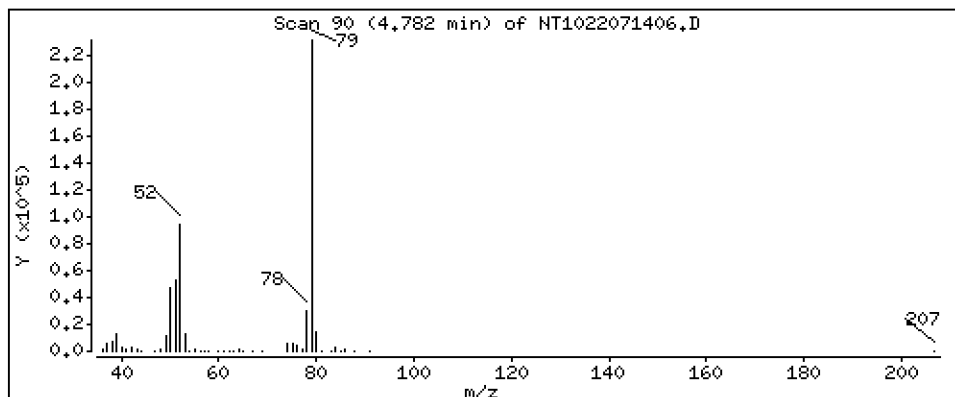
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,568 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

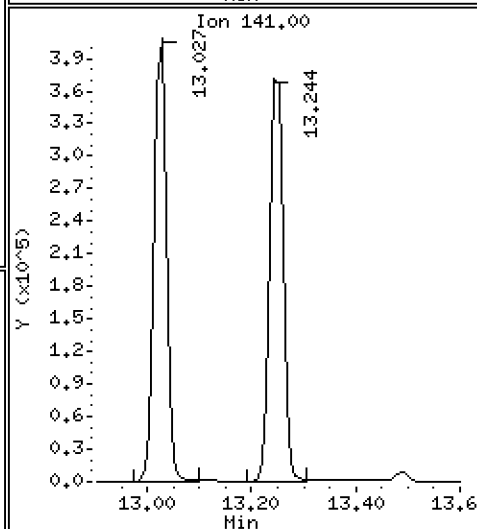
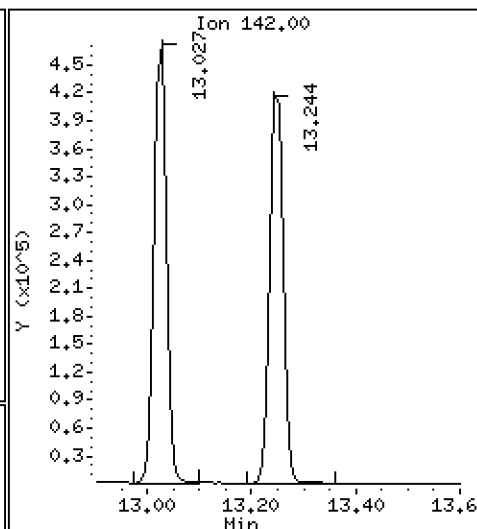
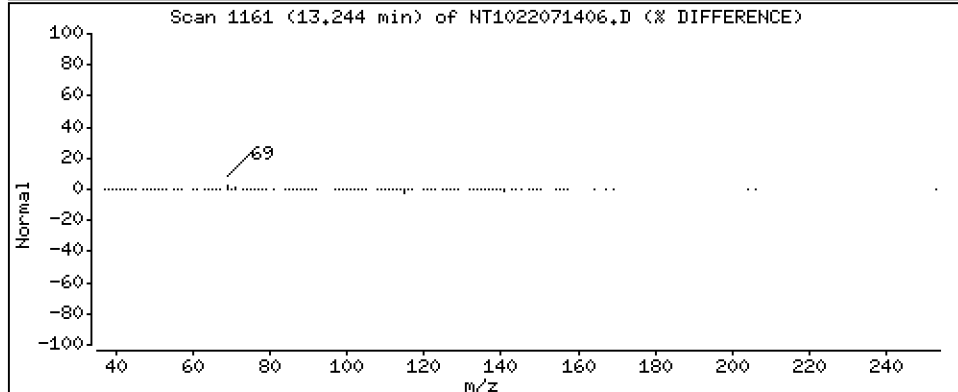
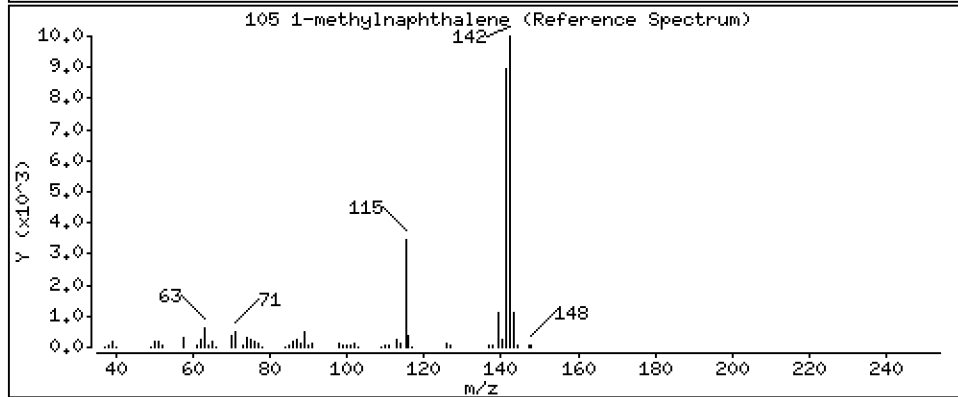
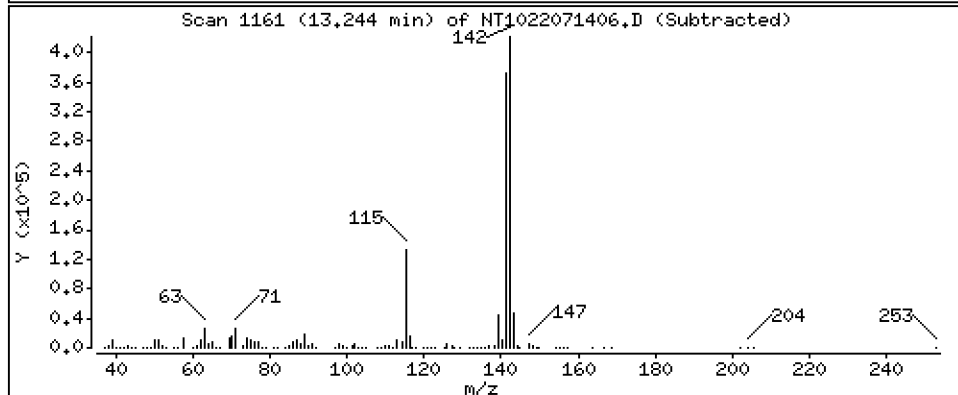
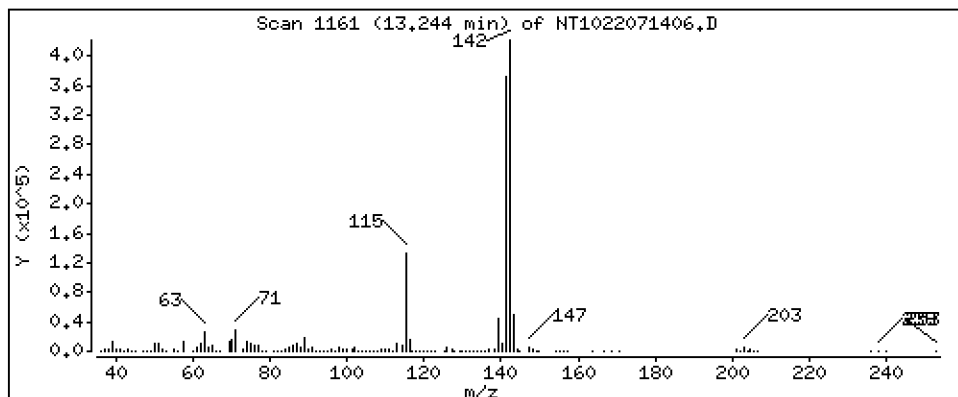
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,557 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

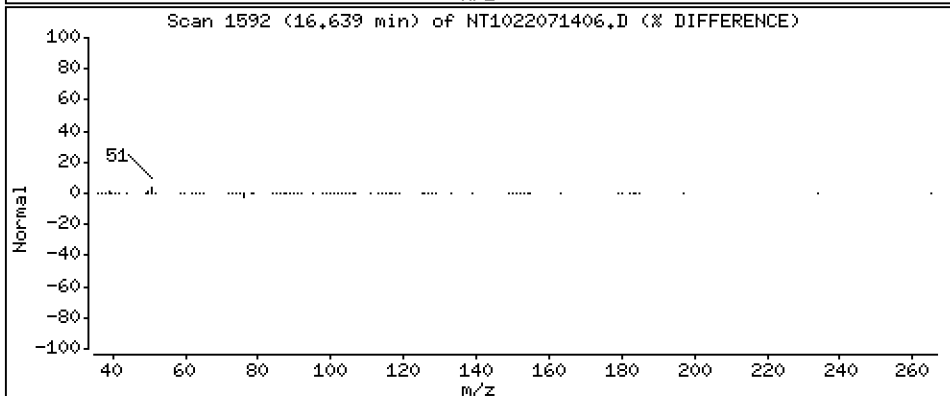
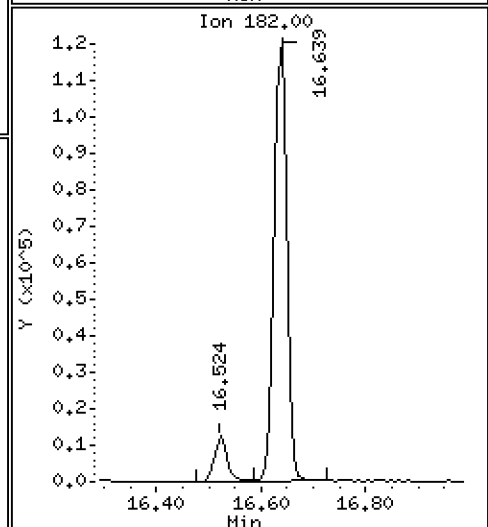
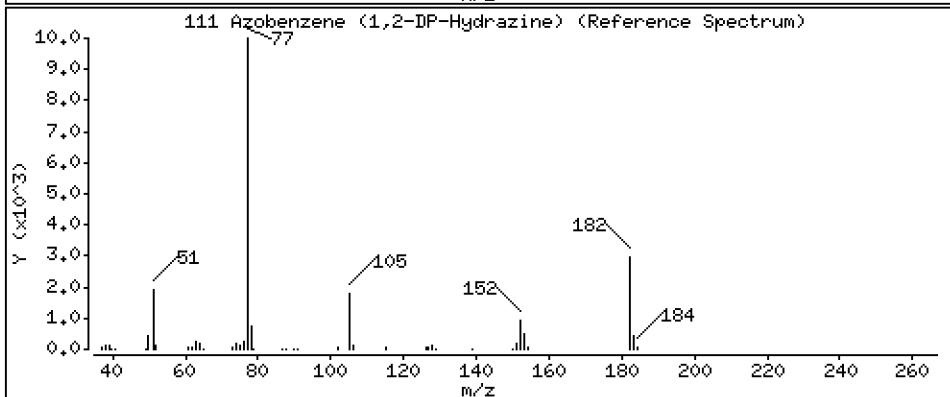
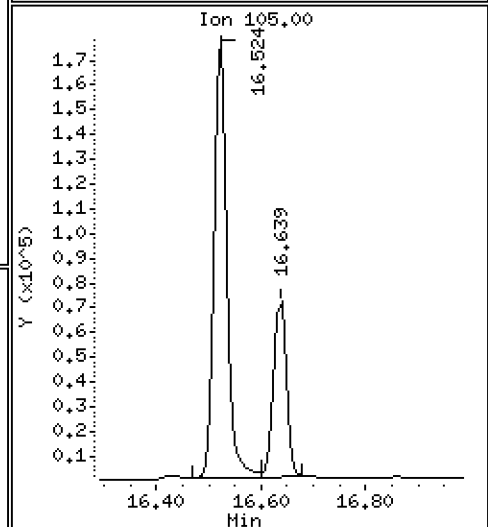
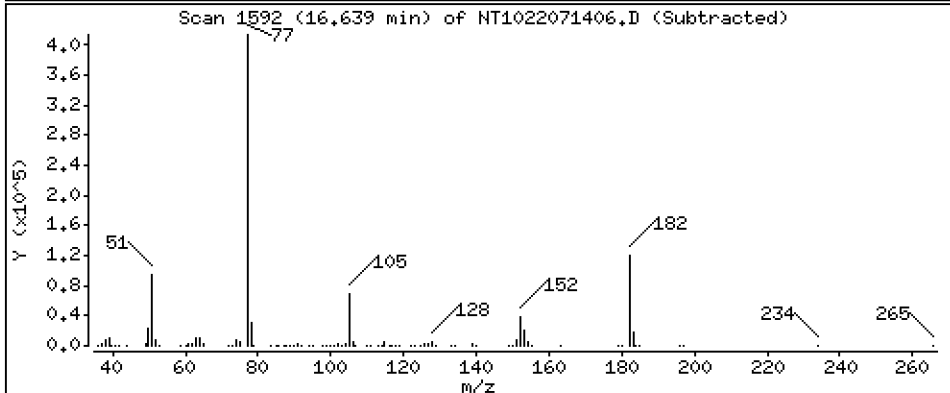
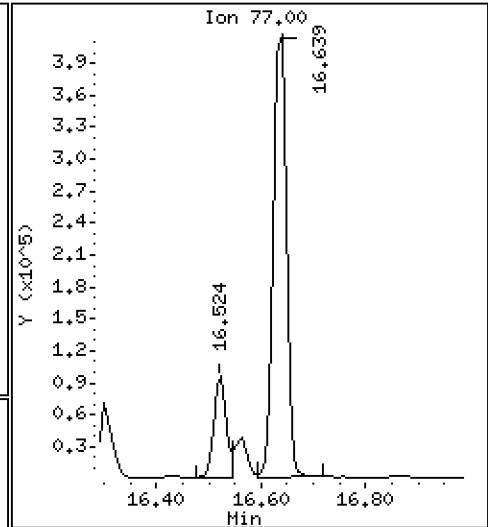
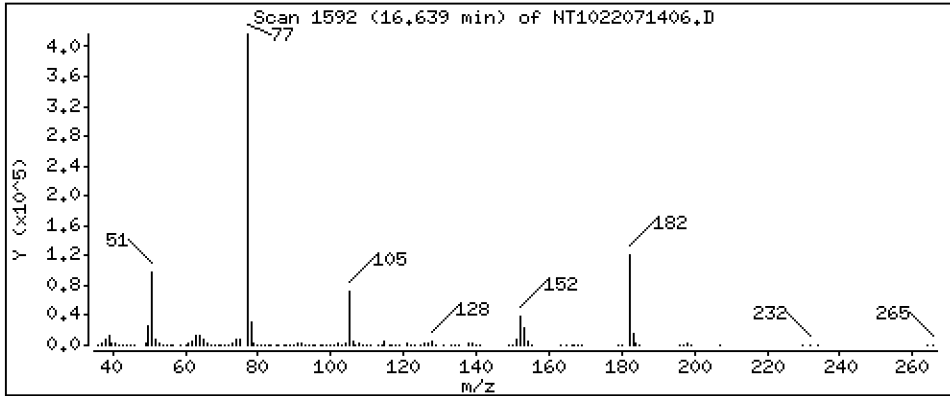
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,886 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

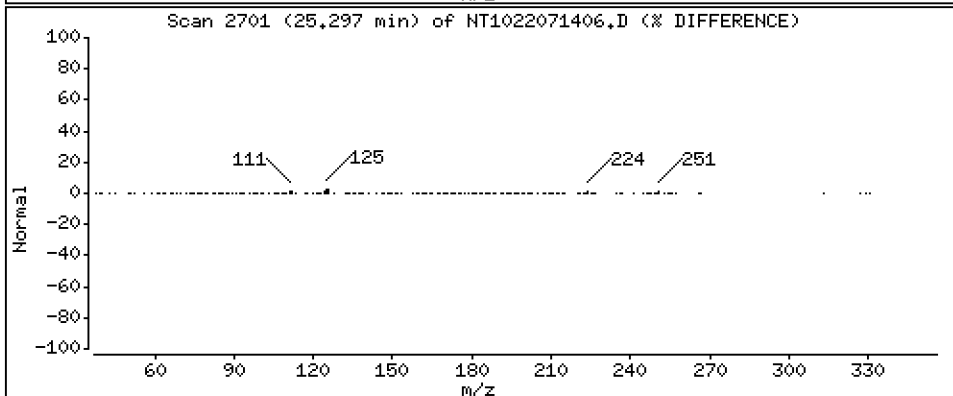
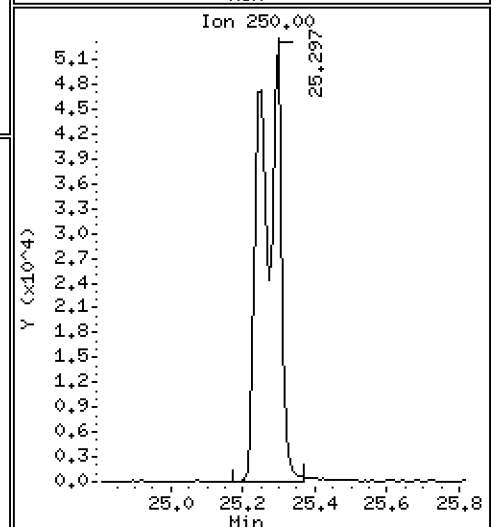
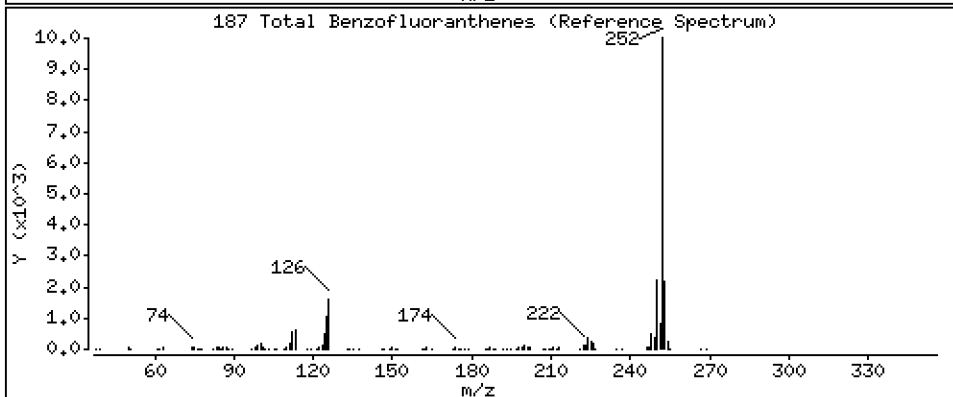
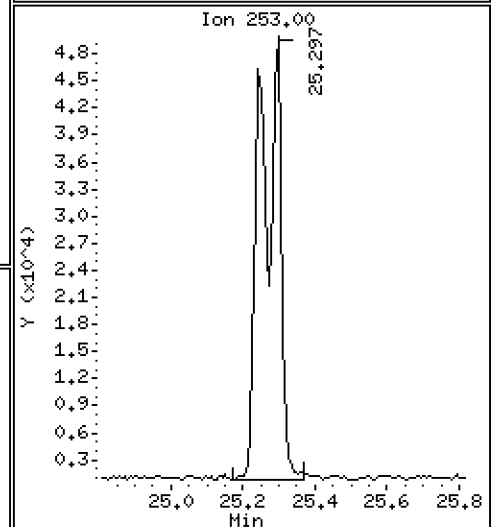
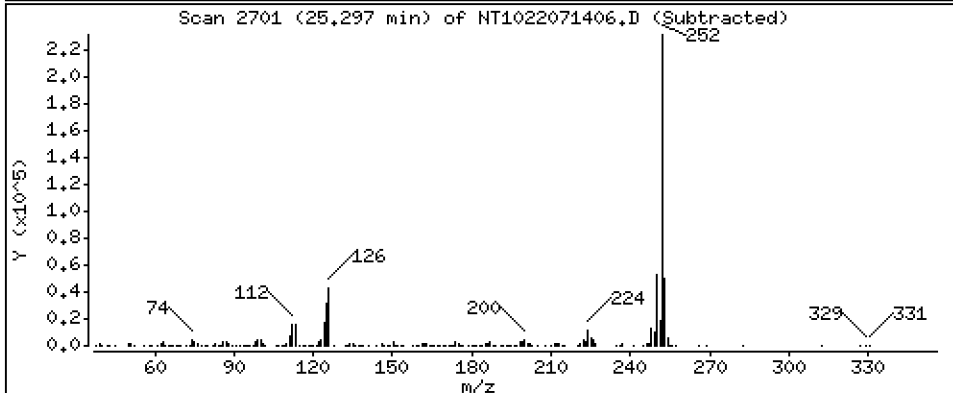
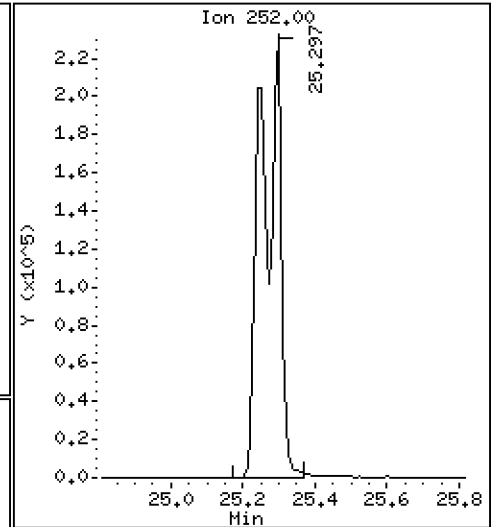
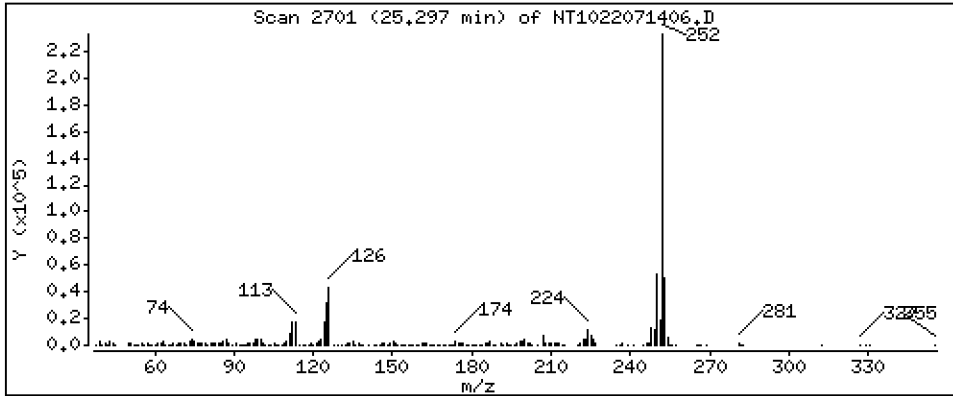
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,852 ug/mL



Date : 14-JUL-2022 16:58

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-BSD1

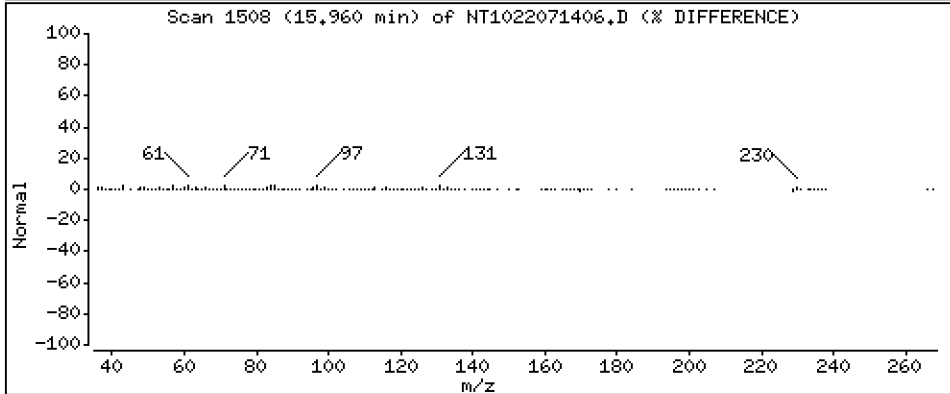
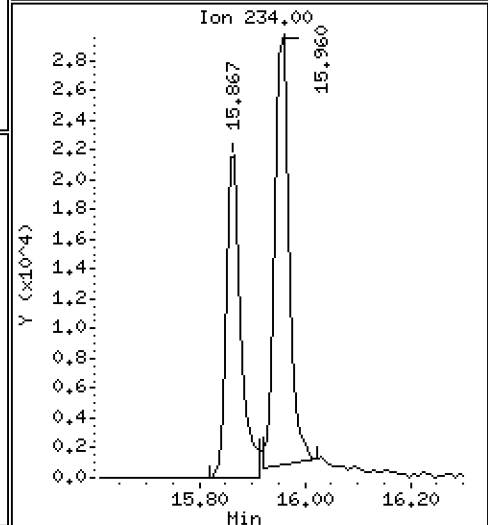
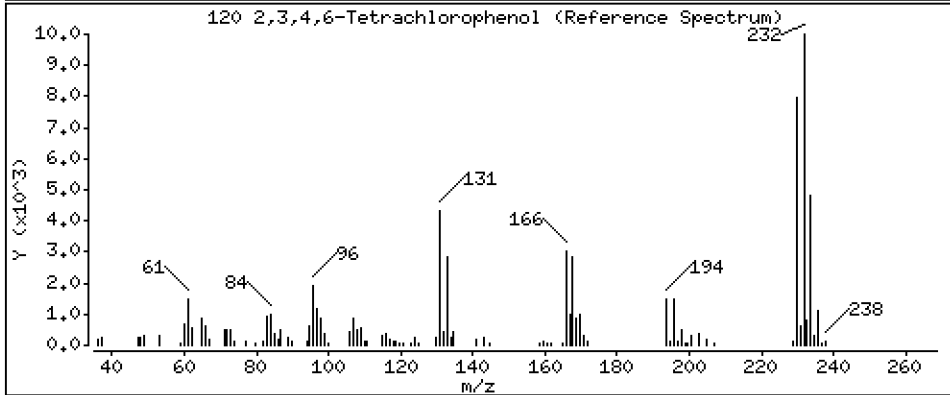
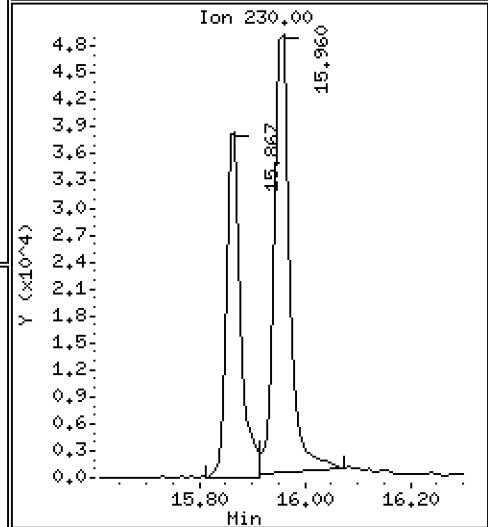
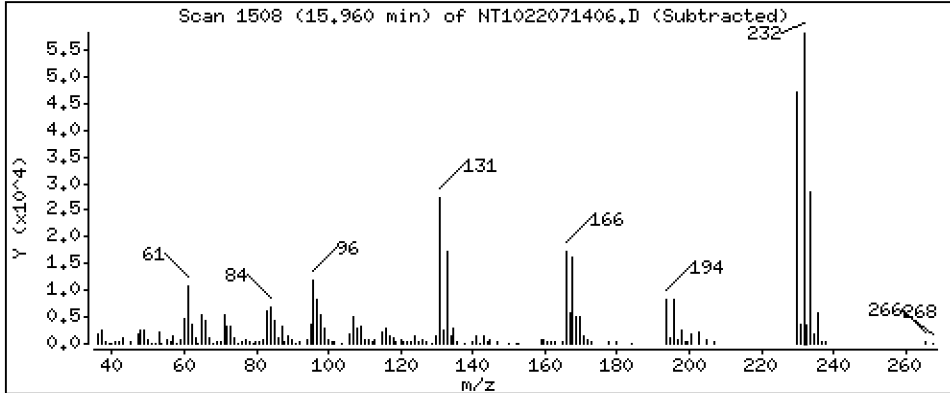
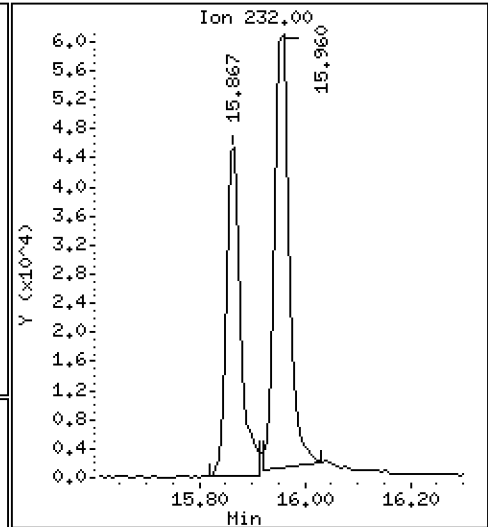
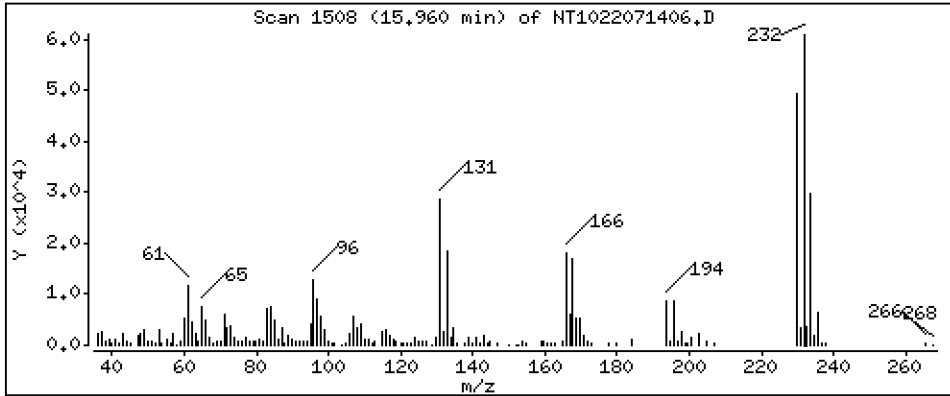
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,633 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071406.D
 Lab Smp Id: BKG0069-BSD1
 Inj Date : 14-JUL-2022 16:58
 Operator : VTS
 Smp Info : BKG0069-BSD1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 19-Jul-2022 13:58 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.906	6.906	(0.759)	500066	7.21186	7.212
\$ 2 Phenol-d5	99		8.490	8.490	(0.933)	736441	7.15793	7.158
3 Phenol	94		8.513	8.513	(0.935)	358535	3.99919	3.999
\$ 5 2-Chlorophenol-d4	132		8.752	8.753	(0.962)	549781	7.78147	7.781
4 Bis(2-Chloroethyl)ether	93		8.644	8.645	(0.950)	308803	4.78607	4.786
6 2-Chlorophenol	128		8.776	8.776	(0.964)	299626	4.19212	4.192
7 1,3-Dichlorobenzene	146		9.039	9.039	(0.993)	315324	4.07895	4.079
* 8 1,4-Dichlorobenzene-d4	152		9.101	9.101	(1.000)	189891	4.00000	
9 1,4-Dichlorobenzene	146		9.132	9.132	(1.003)	268078	4.39931	4.399
\$ 10 1,2-Dichlorobenzene-d4	152		9.458	9.466	(1.039)	230288	5.28957	5.290
12 1,2-Dichlorobenzene	146		9.489	9.489	(1.043)	281444	4.35072	4.351
11 Benzyl alcohol	108		9.380	9.380	(1.031)	176901	4.95332	4.953
14 2,2'-oxybis(1-Chloropropane)	121		9.667	9.668	(1.062)	95669	6.25357	6.254
13 2-Methylphenol	108		9.613	9.613	(1.056)	216605	3.91862	3.919
17 Hexachloroethane	117		10.071	10.079	(1.107)	129038	4.75039	4.750
16 N-Nitroso-di-n-propylamine	70		9.924	9.924	(1.090)	152088	3.95623	3.956
15 4-Methylphenol	108		9.893	9.885	(1.087)	240710	4.07481	4.075
\$ 18 Nitrobenzene-d5	82		10.187	10.195	(0.880)	371716	5.54915	5.549
19 Nitrobenzene	77		10.226	10.227	(0.883)	313962	4.65023	4.650
20 Isophorone	82		10.676	10.677	(0.922)	726477	7.43818	7.438
21 2-Nitrophenol	139		10.859	10.859	(0.938)	217533	5.10105	5.101
22 2,4-Dimethylphenol	107		10.919	10.927	(0.943)	548479	10.5874	10.59
23 Bis(2-Chloroethoxy)methane	93		11.105	11.106	(0.959)	298651	5.08955	5.090
24 Benzoic acid	105		11.182	11.165	(0.966)	770843	27.4065	27.41
25 2,4-Dichlorophenol	162		11.326	11.335	(0.978)	743799	14.1271	14.13
26 1,2,4-Trichlorobenzene	180		11.496	11.504	(0.993)	221179	3.91369	3.914
* 27 Naphthalene-d8	136		11.581	11.589	(1.000)	629532	4.00000	
28 Naphthalene	128		11.627	11.627	(1.004)	699809	4.34349	4.343
29 4-Chloroaniline	127		11.766	11.766	(1.016)	744892	10.4706	10.47
30 Hexachlorobutadiene	225		11.982	11.990	(1.035)	123023	4.56306	4.563
31 4-Chloro-3-methylphenol	107		12.748	12.749	(1.101)	1038349	16.0330	16.03
32 2-Methylnaphthalene	142		13.027	13.027	(1.125)	735174	4.59118	4.591
33 Hexachlorocyclopentadiene	237		13.491	13.492	(0.887)	99504	4.82682	4.827

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.662	13.662	(0.898)	707922	17.6954	17.70	
35 2,4,5-Trichlorophenol	196		13.747	13.755	(0.904)	730233	15.4168	15.42	
\$ 36 2-Fluorobiphenyl	172		13.809	13.809	(0.908)	910409	5.71539	5.715	
37 2-Chloronaphthalene	162		14.018	14.026	(0.922)	682268	4.85866	4.859	
38 2-Nitroaniline	65		14.288	14.289	(0.939)	643403	17.1291	17.13	
39 Dimethylphthalate	163		14.706	14.714	(0.967)	598203	4.84603	4.846	
40 Acenaphthylene	152		14.892	14.900	(0.979)	803490	3.90491	3.905	
41 2,6-Dinitrotoluene	165		14.854	14.862	(0.977)	465627	16.2413	16.24	
* 42 Acenaphthene-d10	164		15.209	15.210	(1.000)	352002	4.00000		
43 3-Nitroaniline	138		15.148	15.156	(0.996)	460679	13.6498	13.65	
44 Acenaphthene	153		15.271	15.279	(1.004)	469353	4.58479	4.585	
45 2,4-Dinitrophenol	184		15.372	15.372	(1.011)	412649	30.0917	30.09	
46 Dibenzofuran	168		15.604	15.612	(1.026)	815649	5.01344	5.013	
47 4-Nitrophenol	109		15.549	15.565	(1.022)	151401	13.3416	13.34 (M)	
48 2,4-Dinitrotoluene	165		15.673	15.681	(1.030)	663729	17.3216	17.32	
50 Diethylphthalate	149		16.168	16.176	(1.063)	638844	6.03295	6.033	
49 Fluorene	166		16.323	16.323	(1.073)	471705	2.42647	2.426	
51 4-Chlorophenyl-phenylether	204		16.299	16.323	(1.072)	162716	1.90601	1.906	
52 4-Nitroaniline	138		16.431	16.439	(1.080)	554939	16.4167	16.42	
53 4,6-Dinitro-2-methylphenol	198		16.523	16.531	(0.905)	758302	32.4097	32.41	
54 N-Nitrosodiphenylamine	169		16.562	16.570	(0.907)	450995	4.77003	4.770	
\$ 55 2,4,6-Tribromophenol	330		16.862	16.870	(1.109)	143831	8.94643	8.946	
56 4-Bromophenyl-phenylether	248		17.317	17.318	(0.948)	229064	5.22909	5.229	
57 Hexachlorobenzene	284		17.634	17.642	(0.966)	187055	4.65636	4.656	
58 Pentachlorophenol	266		18.014	18.022	(0.986)	117820	12.3421	12.34	
* 59 Phenanthrene-d10	188		18.261	18.269	(1.000)	601290	4.00000		
60 Phenanthrene	178		18.308	18.316	(1.003)	759227	4.80613	4.806	
61 Anthracene	178		18.408	18.416	(1.008)	800745	4.75663	4.757	
62 Carbazole	167		18.749	18.757	(1.027)	876544	5.64402	5.644	
63 Di-n-butylphthalate	149		19.538	19.546	(1.070)	1392985	5.74268	5.743	
64 Fluoranthene	202		20.714	20.722	(0.887)	1257396	4.87854	4.879	
65 Pyrene	202		21.139	21.147	(0.905)	1177208	5.18454	5.185	
\$ 66 Terphenyl-d14	244		21.426	21.434	(0.918)	735503	5.97106	5.971	
67 Butylbenzylphthalate	149		22.355	22.363	(0.958)	404359	5.67067	5.671	
68 Benzo(a)anthracene	228		23.323	23.331	(0.999)	678630	4.53717	4.537	
* 69 Chrysene-d12	240		23.346	23.362	(1.000)	352975	4.00000		
70 3,3'-Dichlorobenzidine	252		23.276	23.292	(0.997)	529501	10.8640	10.86	
71 Chrysene	228		23.392	23.408	(1.002)	519042	4.97011	4.970	
72 bis(2-Ethylhexyl)phthalate	149		23.392	23.400	(0.959)	466336	6.29715	6.297	
* 134 Di-n-octylphthalate-d4	153		24.399	24.407	(1.000)	669990	4.00000		
73 Di-n-octylphthalate	149		24.407	24.422	(1.000)	839483	5.51269	5.513	
74 Benzo(b)fluoranthene	252		25.243	25.266	(0.969)	477130	5.02599	5.026	
75 Benzo(k)fluoranthene	252		25.297	25.313	(0.971)	439507	4.81464	4.815	
76 Benzo(a)pyrene	252		25.924	25.948	(0.996)	374098	4.81482	4.815	
* 77 Perylene-d12	264		26.040	26.064	(1.000)	209618	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.814	28.845	(1.107)	367983	4.43577	4.436	
79 Dibenzo(a,h)anthracene	278		28.829	28.853	(1.107)	295798	4.65769	4.658	
80 Benzo(g,h,i)perylene	276		29.629	29.661	(1.138)	316150	4.76747	4.767	
90 N-Nitrosodimethylamine	74		4.751	4.720	(0.522)	449796	9.91449	9.914	
91 Aniline	93		8.559	8.560	(0.941)	639579	7.13298	7.133	
93 Benzidine	184		Compound Not Detected.						
103 Pyridine	79		4.782	4.743	(0.525)	330230	2.56778	2.568	
105 1-methylnaphthalene	142		13.244	13.252	(1.144)	716897	4.55699	4.557	
111 Azobenzene (1,2-DP-Hydrazine)	77		16.639	16.639	(1.094)	686872	4.88585	4.886	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252		25.297	25.313	(0.971)	872021	9.85176	9.852
120 2,3,4,6-Tetrachlorophenol	232		15.959	15.959	(1.049)	111884	3.63288	3.633

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071406.D Calibration Time: 14:12
 Lab Smp Id: BKG0069-BSD1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	189891	-3.04
27 Naphthalene-d8	626038	313019	1252076	629532	0.56
42 Acenaphthene-d10	366612	183306	733224	352002	-3.99
59 Phenanthrene-d10	635137	317569	1270274	601290	-5.33
69 Chrysene-d12	270778	135389	541556	352975	30.36
134 Di-n-octylphthala	507031	253516	1014062	669990	32.14
77 Perylene-d12	170107	85054	340214	209618	23.23

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.10	-0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.07
42 Acenaphthene-d10	15.21	14.71	15.71	15.21	-0.00
59 Phenanthrene-d10	18.27	17.77	18.77	18.26	-0.04
69 Chrysene-d12	23.36	22.86	23.86	23.35	-0.07
134 Di-n-octylphthala	24.41	23.91	24.91	24.40	-0.03
77 Perylene-d12	26.06	25.56	26.56	26.04	-0.09

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

REVIEW SUMMARY FOR FILE - NT1022071406.D

Lab ID: BKG0069-BSD1
nt10.i, ABN.m, 14-JUL-2022 16:58

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022071402.D

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

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

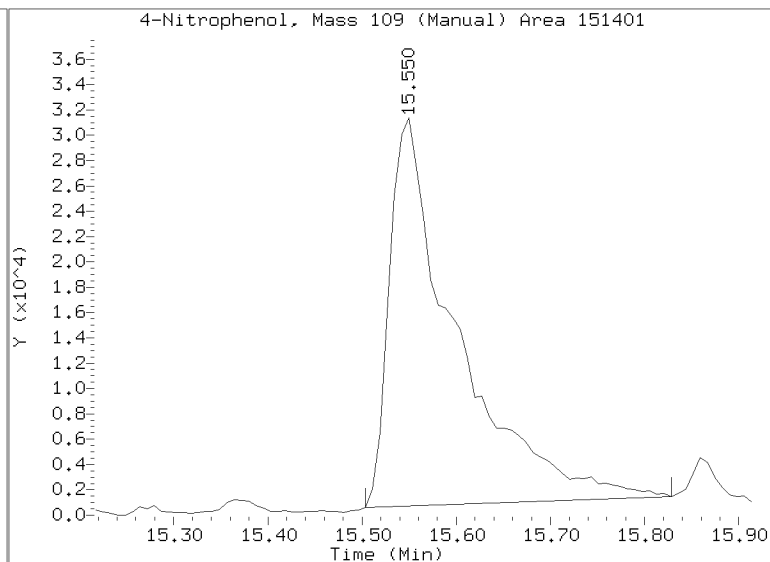
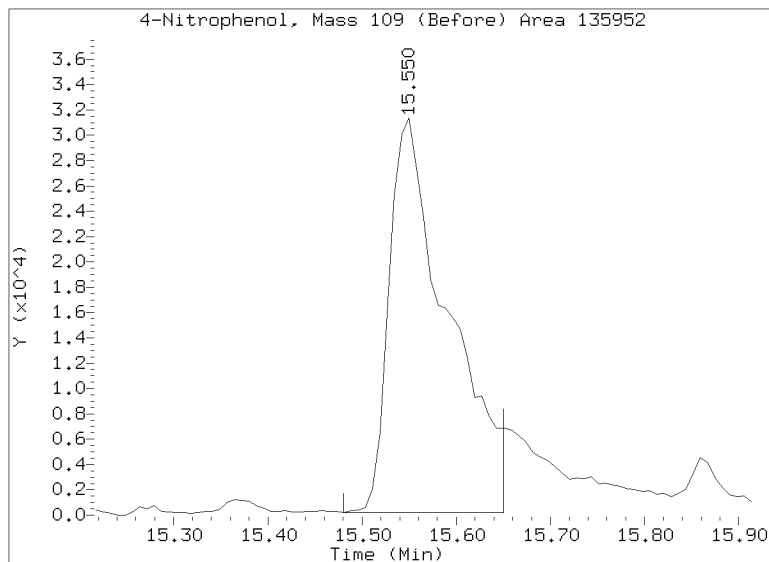
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071406.D

Injection Date: 14-JUL-2022 16:58

Lab ID: BKG0069-BSD1 Client ID:

Report Date: 07/25/2022 11:00





MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: GeoEngineers
Matrix: Solid
Batch: BKG0069
Preparation: EPA 3546 (Microwave)
Initial/Final: 12.79 g / 1 mL

SDG: 22G0019
Project: RG Haley Site-Bellingham
Analyzed: 07/14/22 23:27
Laboratory ID: BKG0069-MS1
Sequence Name: Matrix Spike
Source Sample: Z1A-10-SC 3.5-5.5

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Naphthalene	500	6290	E	5510	*, E	-156 *	43 - 120
2-Methylnaphthalene	500	48900	E	51600	*, E	533 *	43 - 120
Acenaphthene	500	4870	E	4650	*, E	-43.7 *	45 - 120
Pentachlorophenol	1300	ND	U	2800	*, Q	216 *	16 - 120
Phenanthrene	500	17300	E	16800	*, E	-97.0 *	49 - 120
Fluoranthene	500	814	Q	958	*, Q	29.0 *	53 - 145
Benzo(a)anthracene	500	534		851		63.3	49 - 120
Chrysene	500	788		1110		63.6	47 - 120
Benzo(b)fluoranthene	500	334		665		66.1	42 - 132
Benzo(k)fluoranthene	500	429		743		62.7	39 - 129
Benzo(a)pyrene	500	539		866		65.4	42 - 120
Indeno(1,2,3-cd)pyrene	500	195		415		44.0	42 - 163
Dibenzo(a,h)anthracene	500	68.9		387		63.6	30 - 133
1-Methylnaphthalene	500	27500	E	31600	*, E	812 *	42 - 120

* Values outside of QC limits



MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: GeoEngineers
Matrix: Solid
Batch: BKG0069
Preparation: EPA 3546 (Microwave)
Initial/Final: 12.79 g / 1 mL

SDG: 22G0019
Project: RG Haley Site-Bellingham
Analyzed: 07/15/22 00:06
Laboratory ID: BKG0069-MSD1
Sequence Name: Matrix Spike Dup
Source Sample: Z1A-10-SC 3.5-5.5

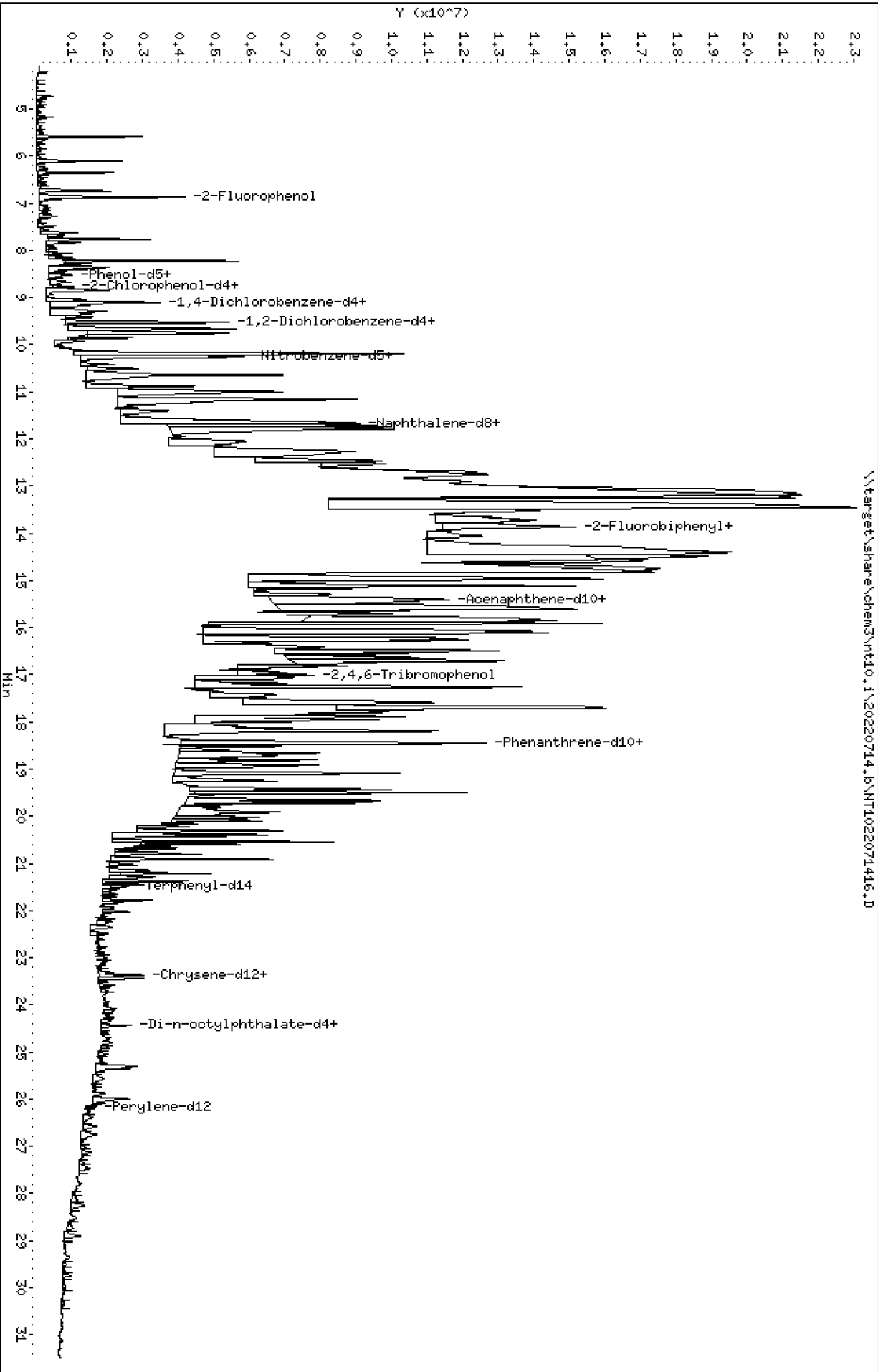
COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Naphthalene	500	9400	*, E	622 *	52.2 *	30	43 - 120
2-Methylnaphthalene	500	58700	*, E	1960 *	12.9	30	43 - 120
Acenaphthene	500	5520	*, E	131 *	17.2	30	45 - 120
Pentachlorophenol	1300	2800	*, Q	215 *	0.0610	30	16 - 120
Phenanthrene	500	19900	*, E	505 *	16.4	30	49 - 120
Fluoranthene	500	1110	Q	59.4	14.7	30	53 - 145
Benzo(a)anthracene	500	944		82.0	10.4	30	49 - 120
Chrysene	500	1240		91.2	11.7	30	47 - 120
Benzo(b)fluoranthene	500	764		86.0	13.9	30	42 - 132
Benzo(k)fluoranthene	500	735		61.2	1.04	30	39 - 129
Benzo(a)pyrene	500	959		83.9	10.2	30	42 - 120
Indeno(1,2,3-cd)pyrene	500	495		60.0	17.5	30	42 - 163
Dibenzo(a,h)anthracene	500	435		73.3	11.8	30	30 - 133
1-Methylnaphthalene	500	35100	*, E	1510 *	10.5	30	42 - 120

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220714.6\NT1022071416.D
Date: 14-JUL-2022 23:27
Client ID:
Sample Info: BK00069-HSI

Column phase: ZB-5msi

Instrument: nt10.1
Operator: VTS
Column diameter: 0.25



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

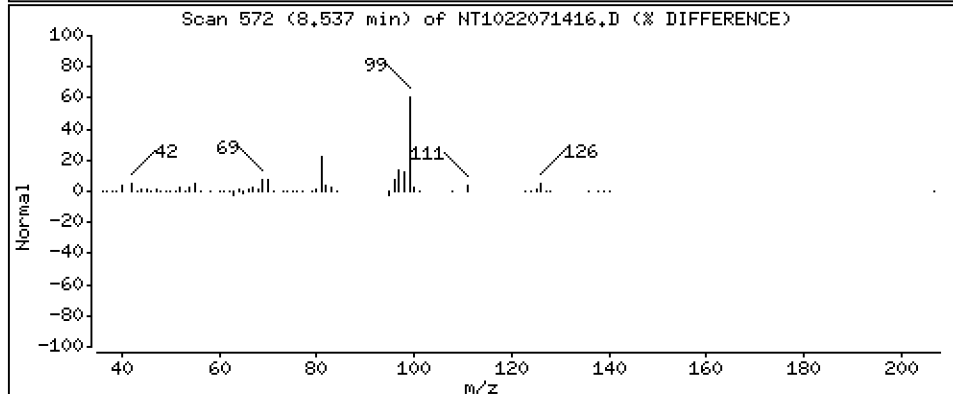
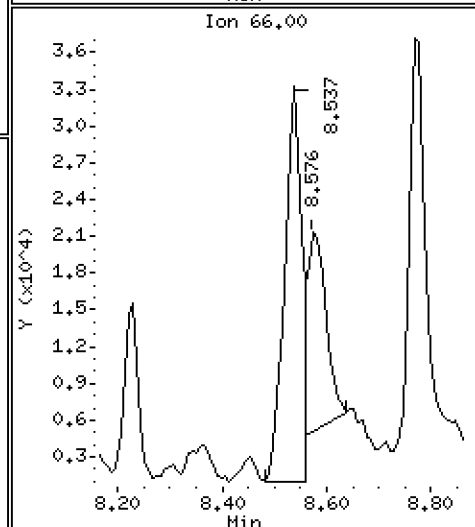
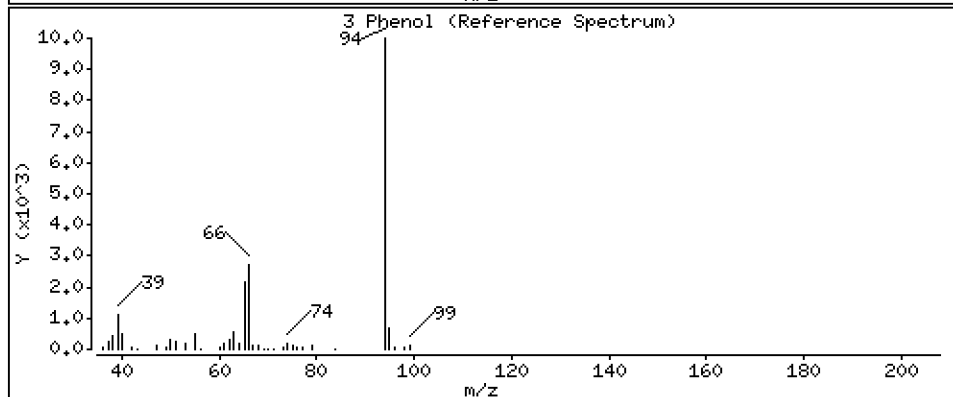
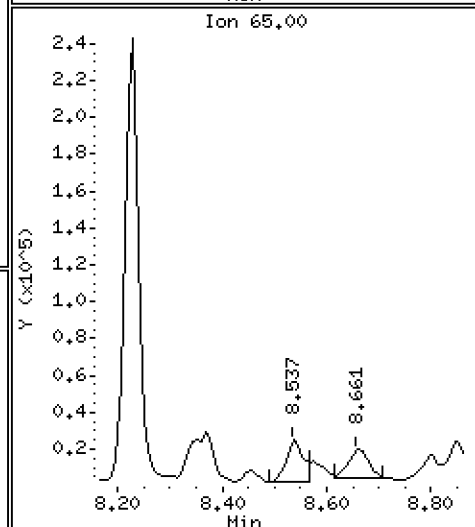
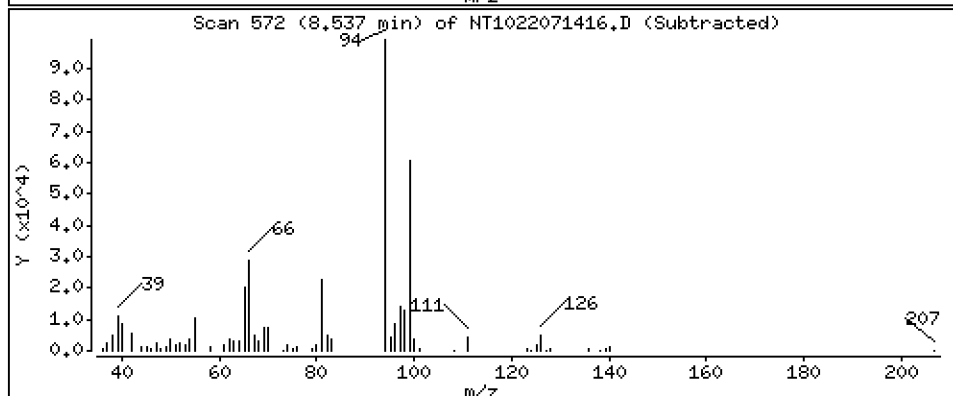
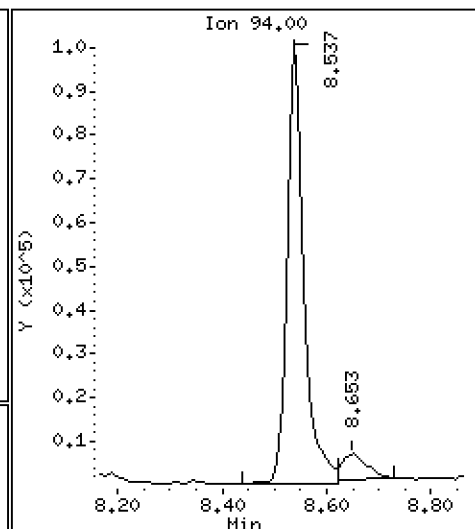
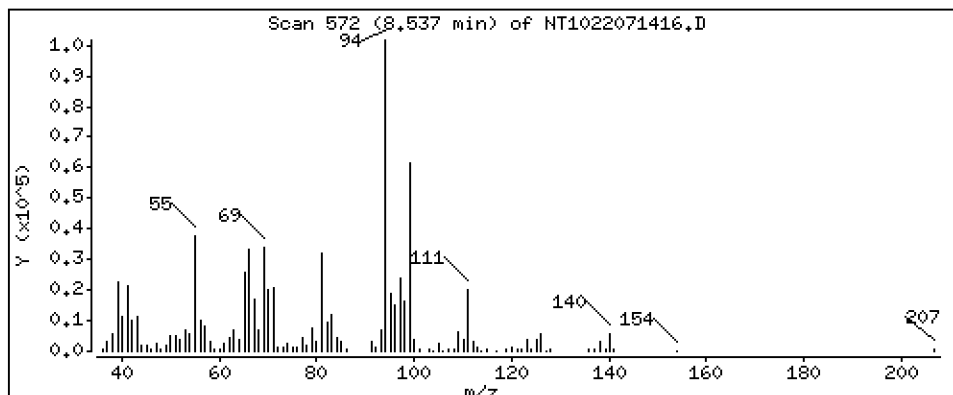
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,349 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

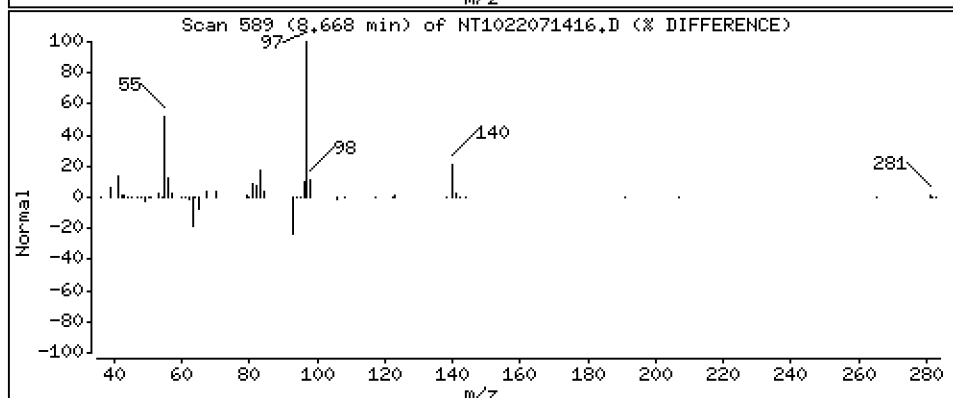
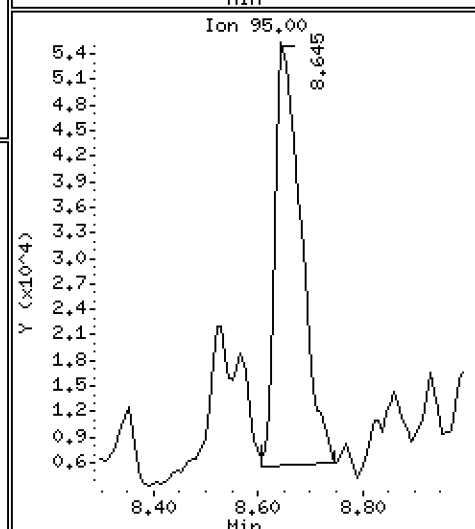
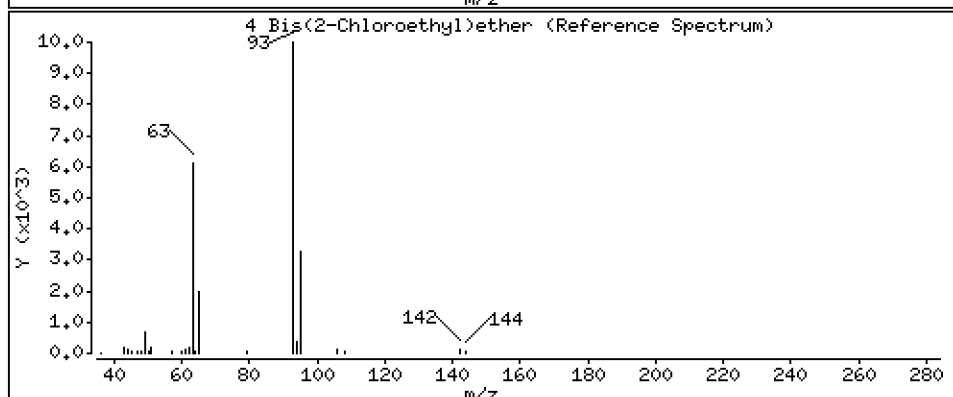
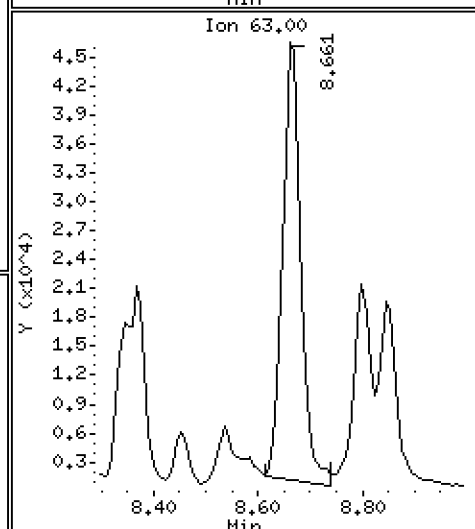
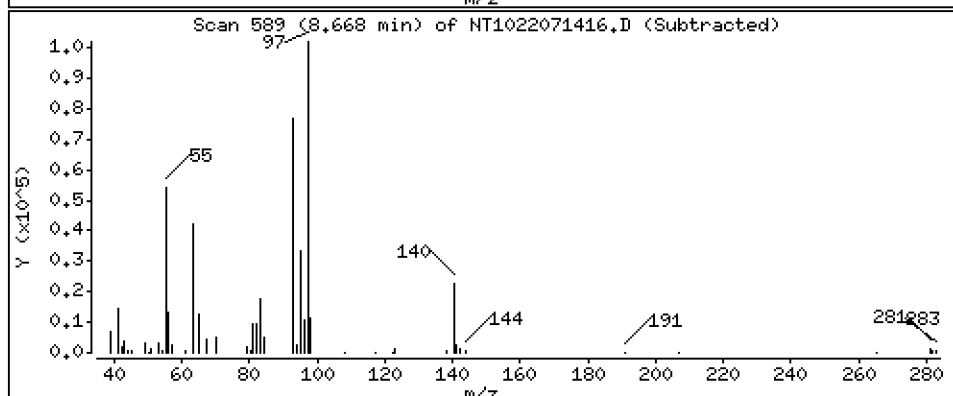
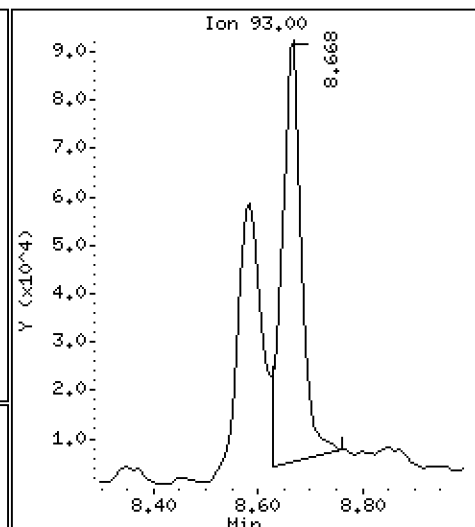
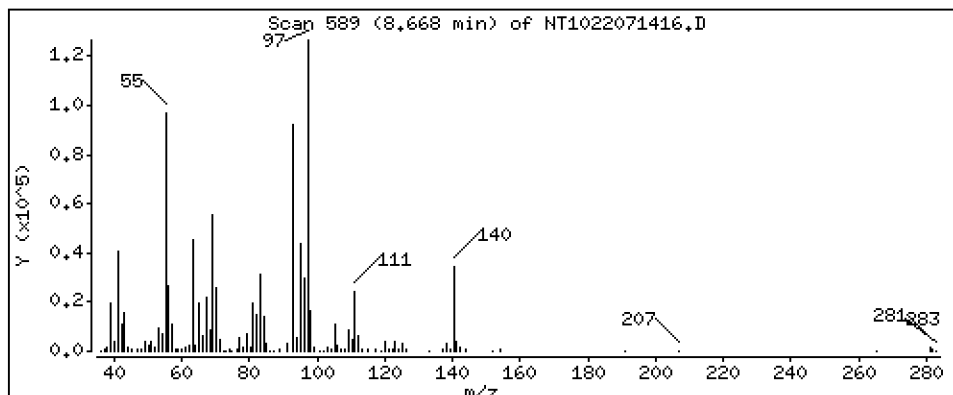
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,469 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

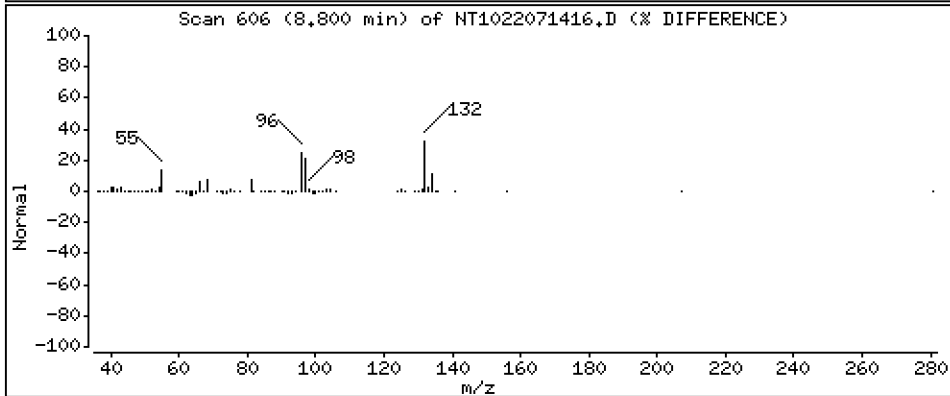
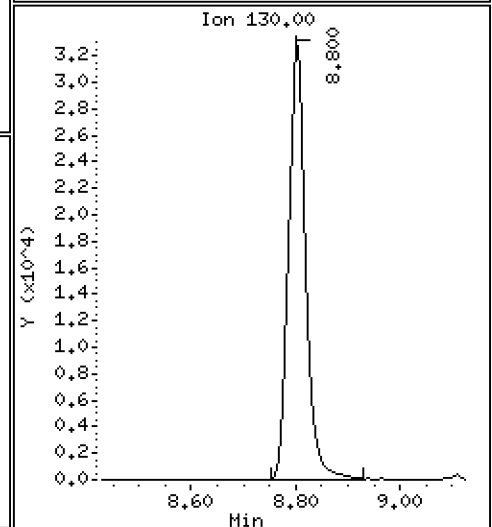
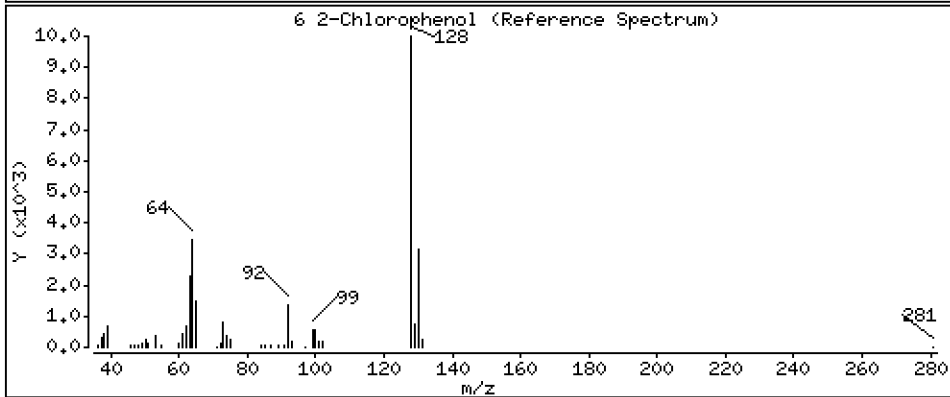
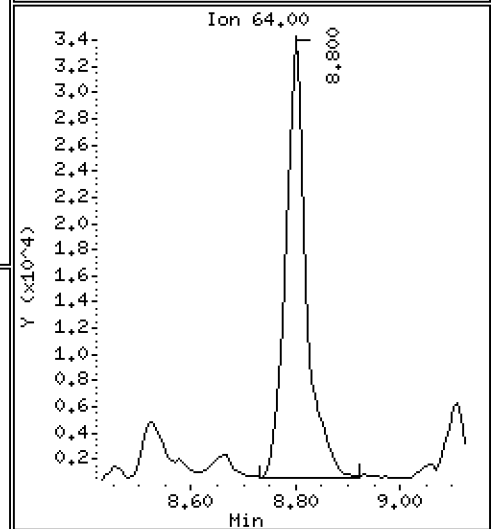
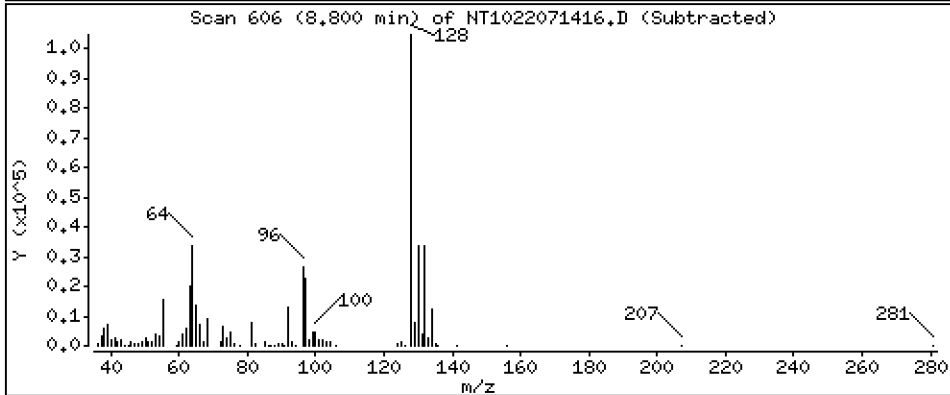
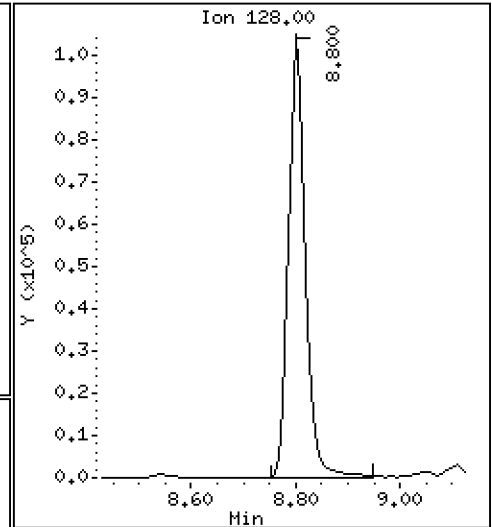
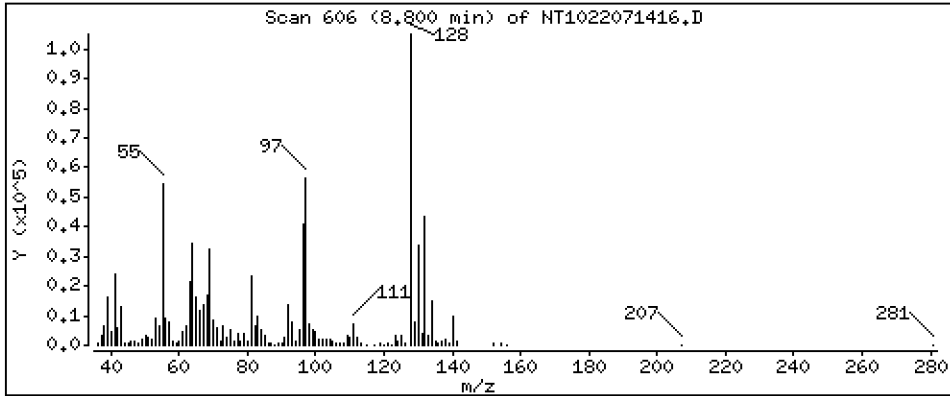
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,518 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

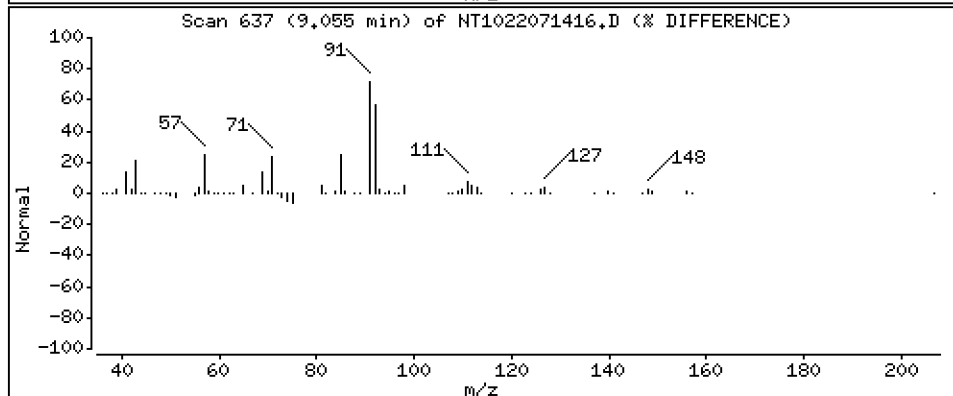
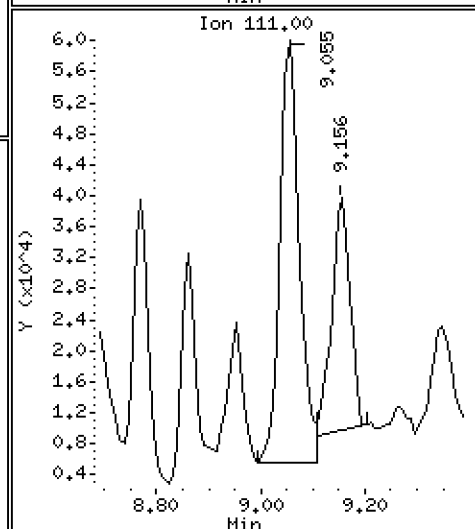
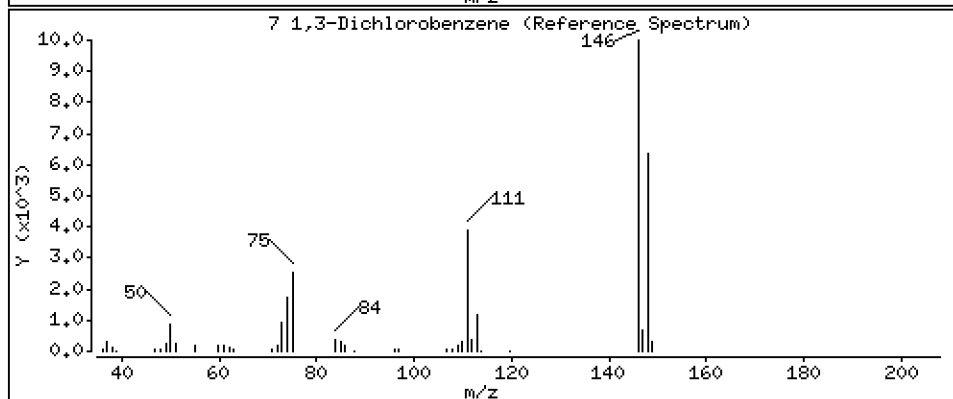
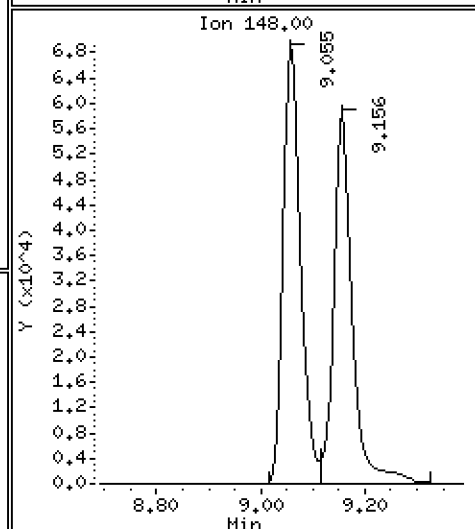
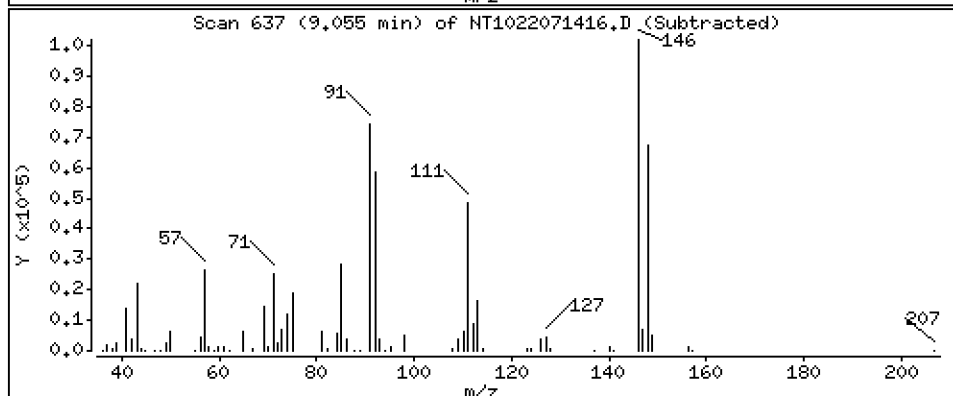
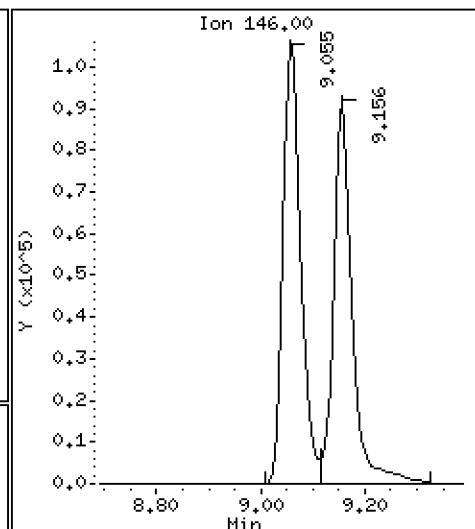
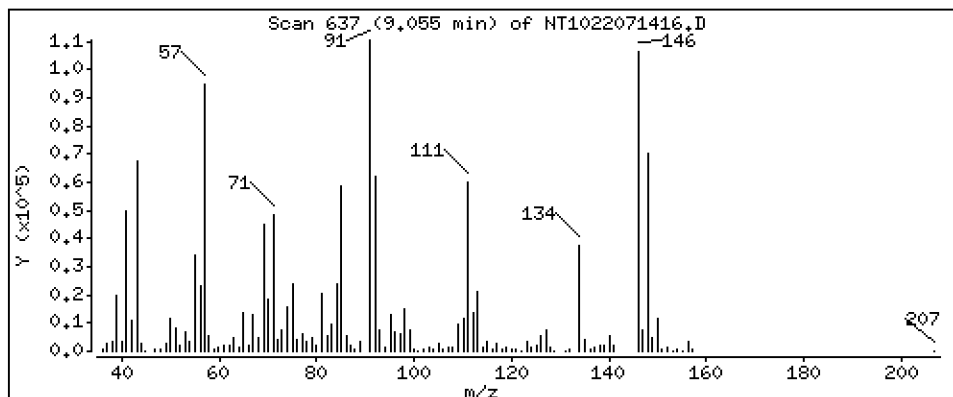
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,121 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

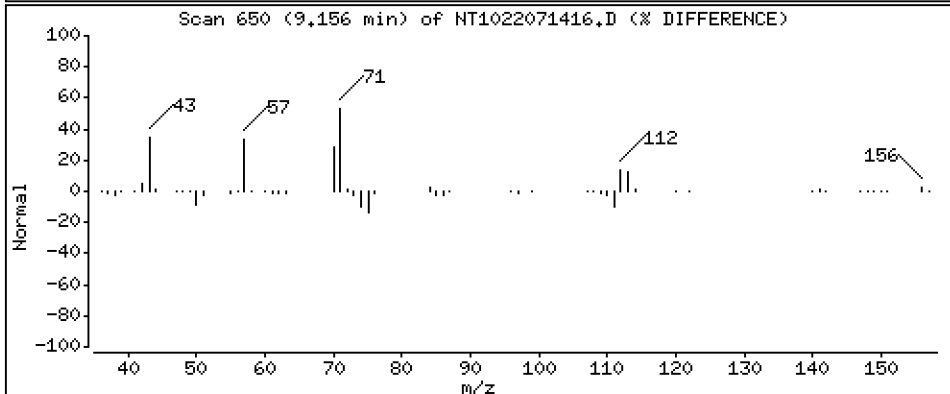
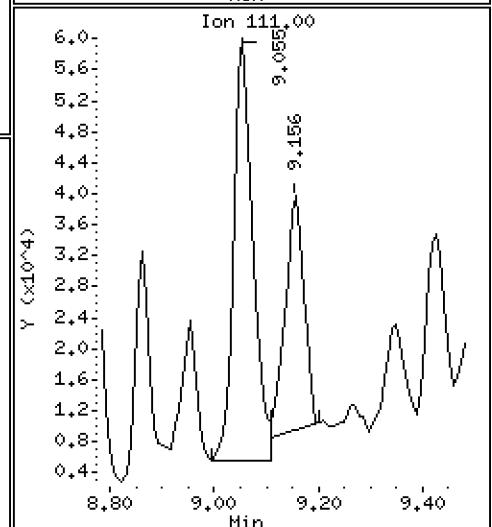
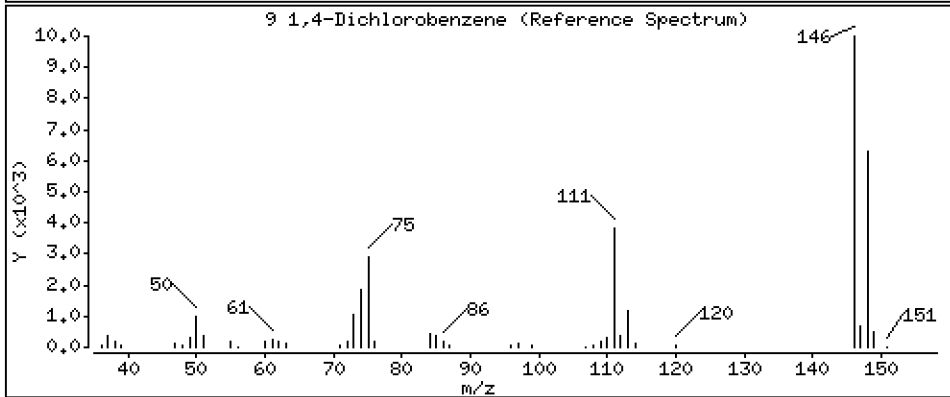
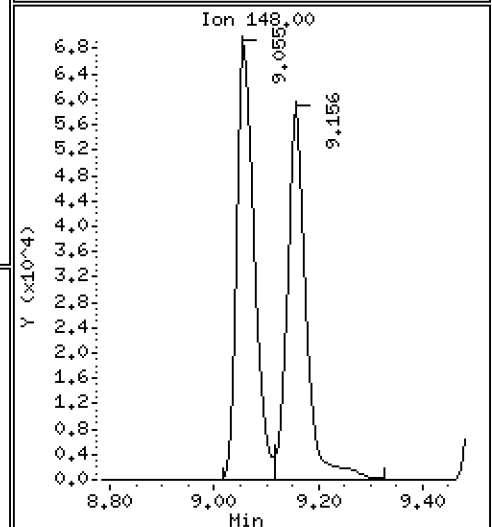
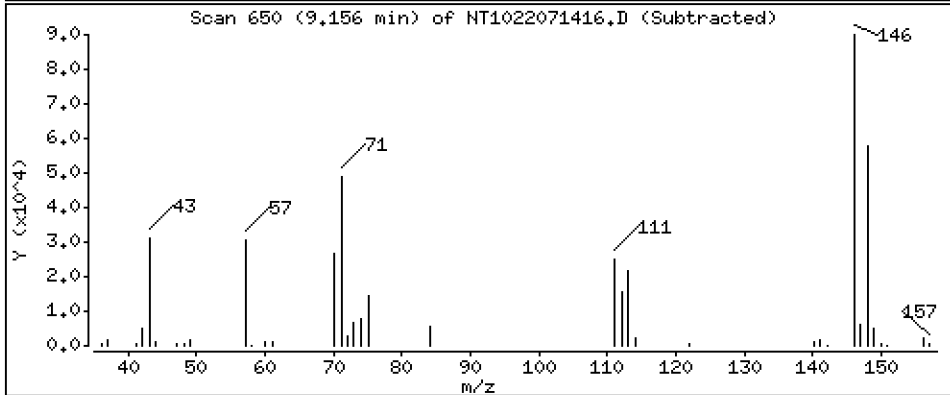
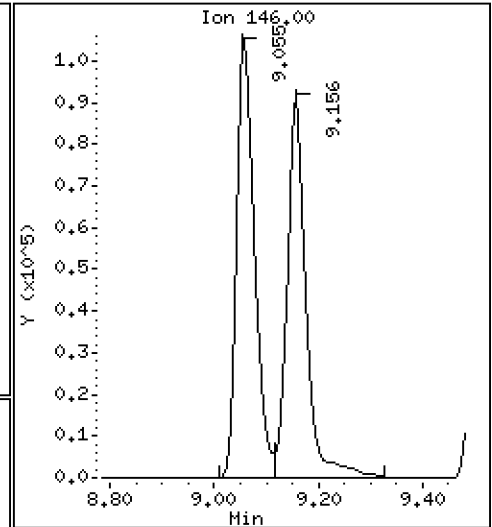
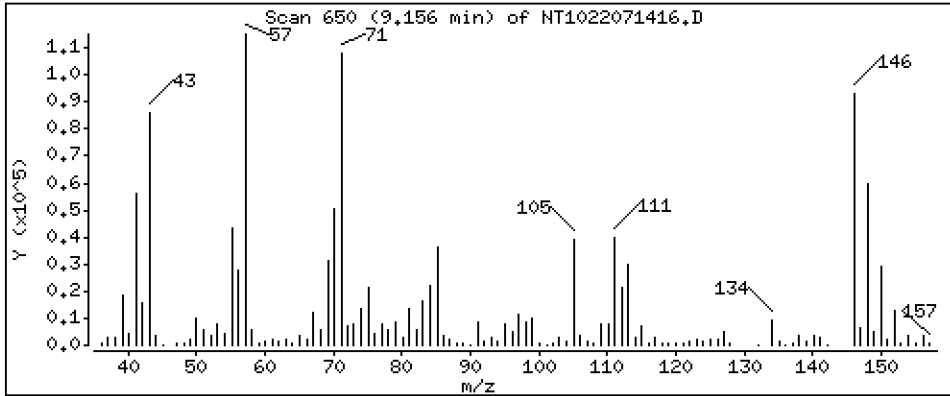
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 5,308 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

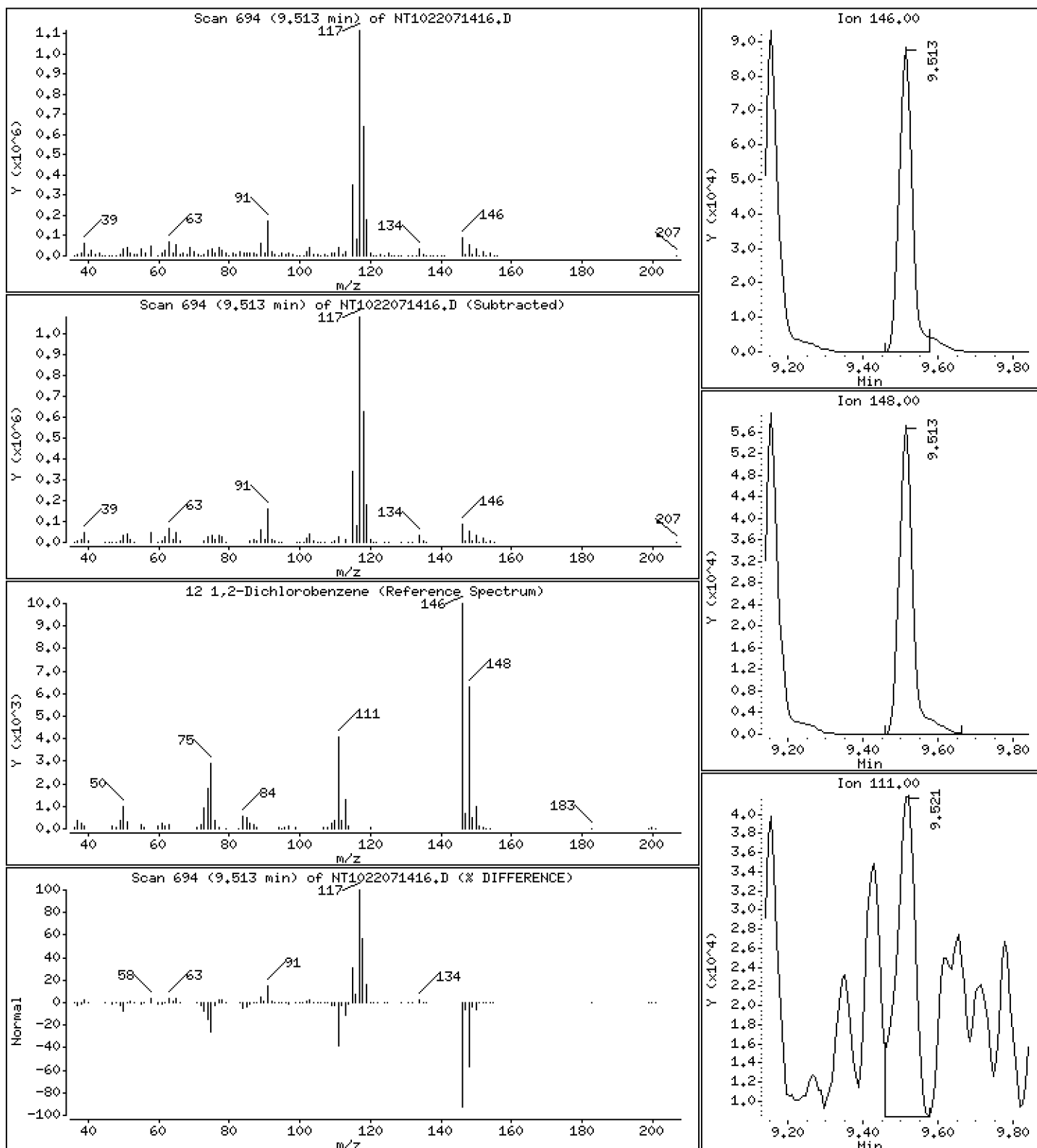
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,325 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

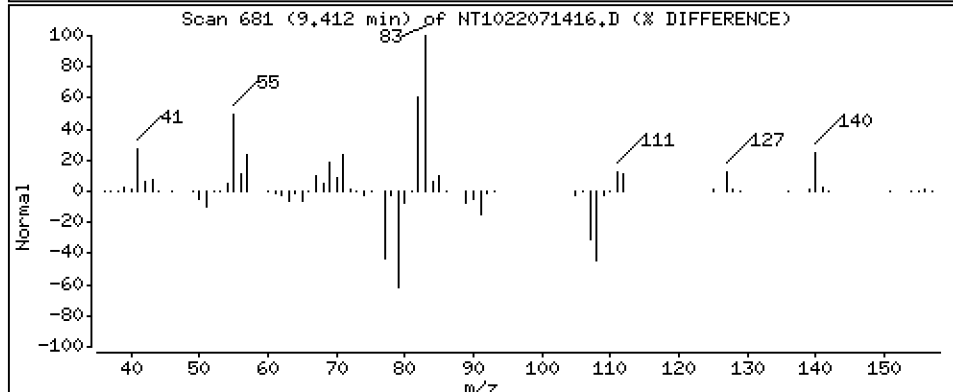
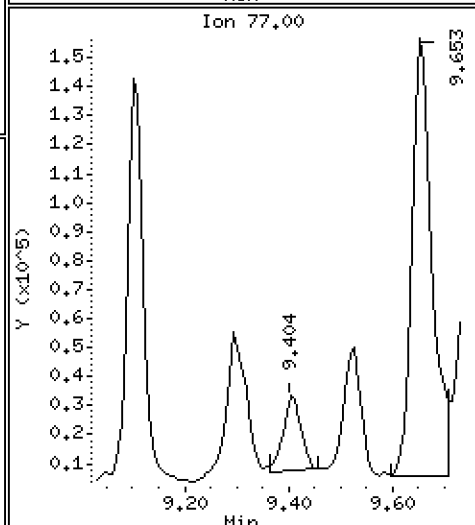
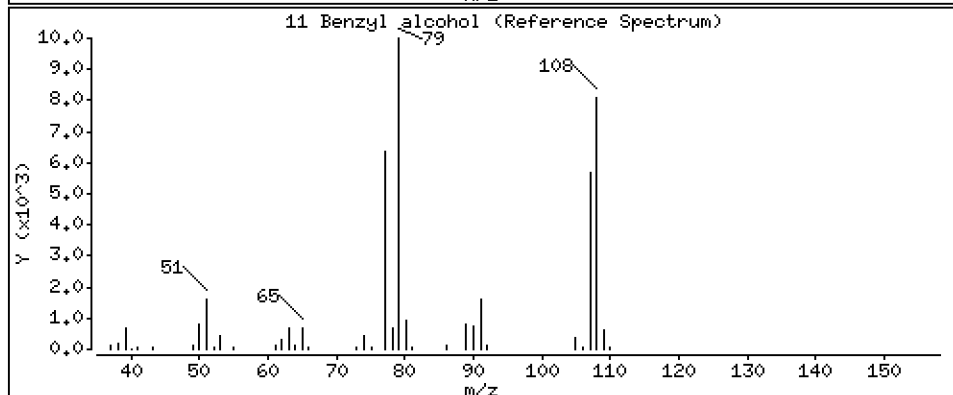
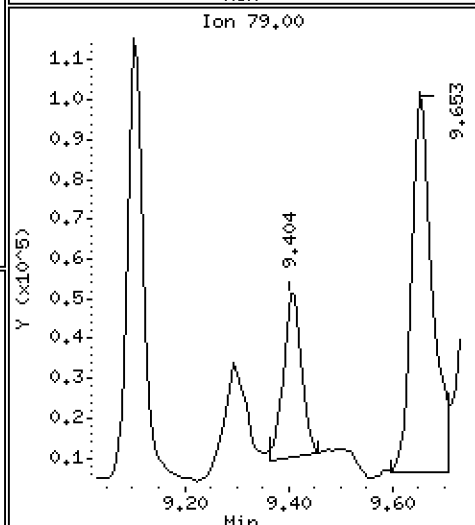
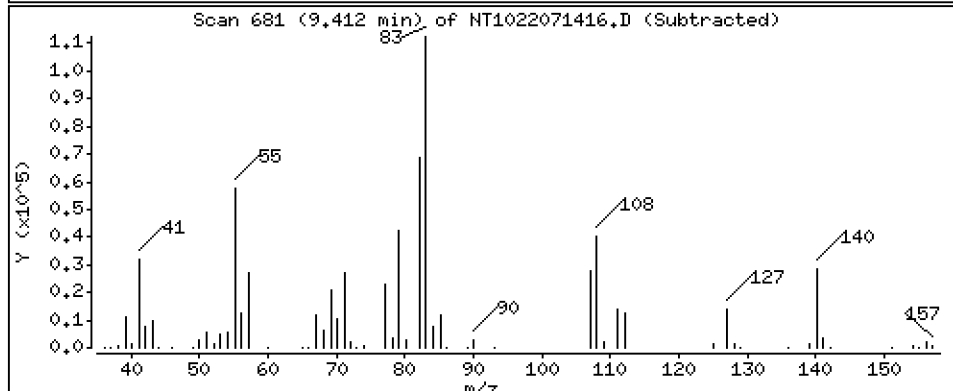
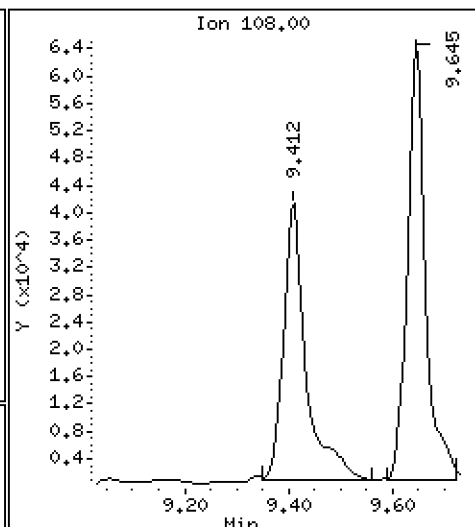
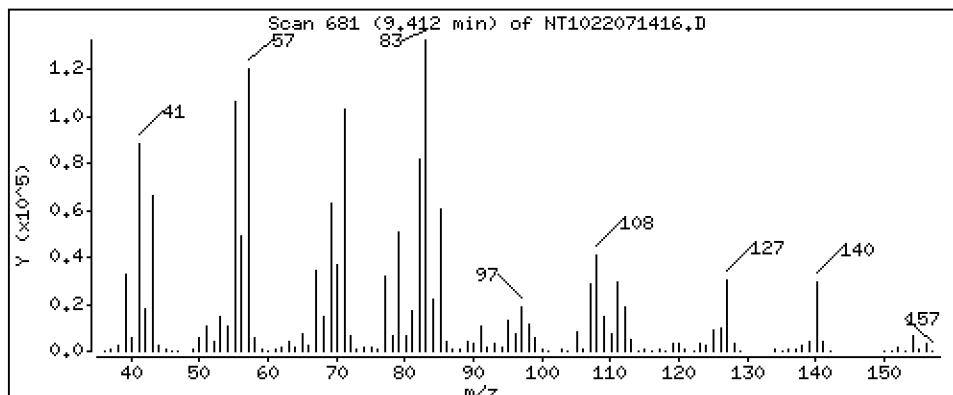
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.491 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

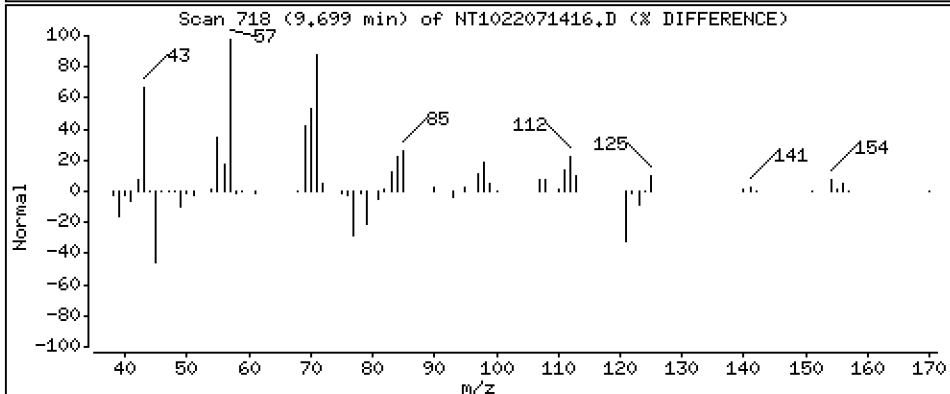
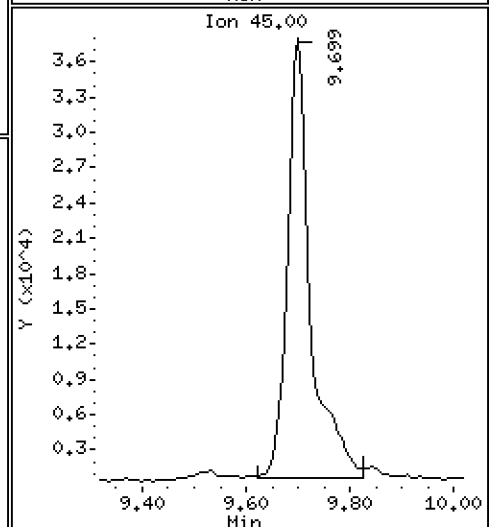
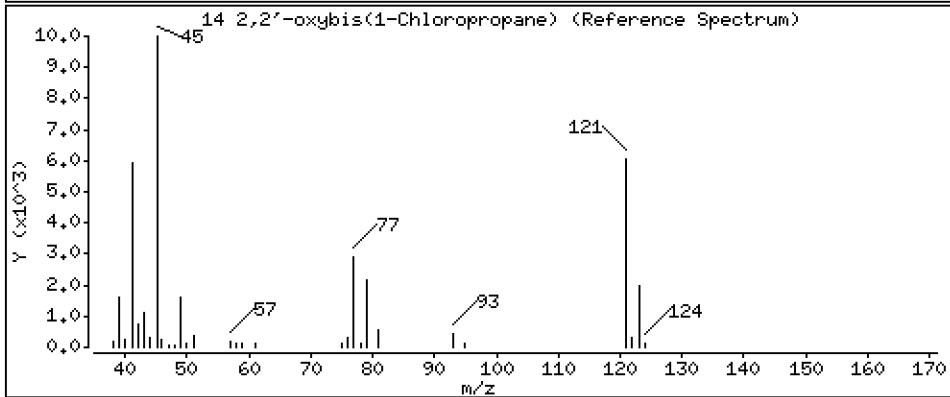
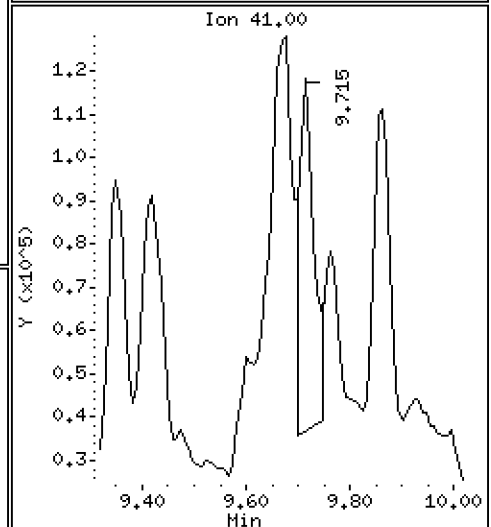
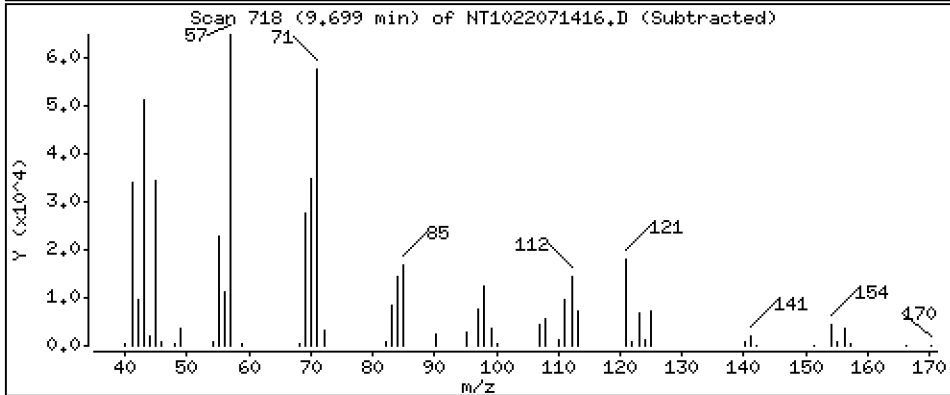
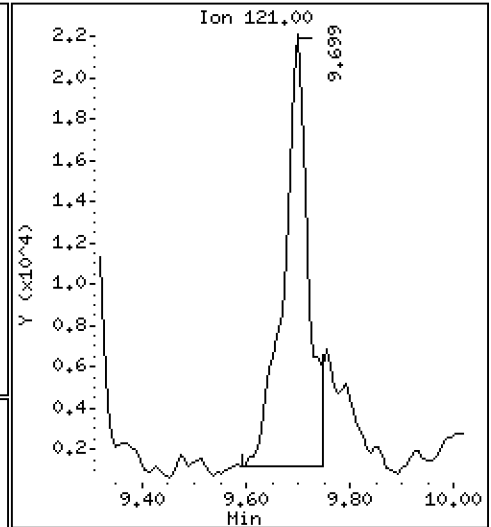
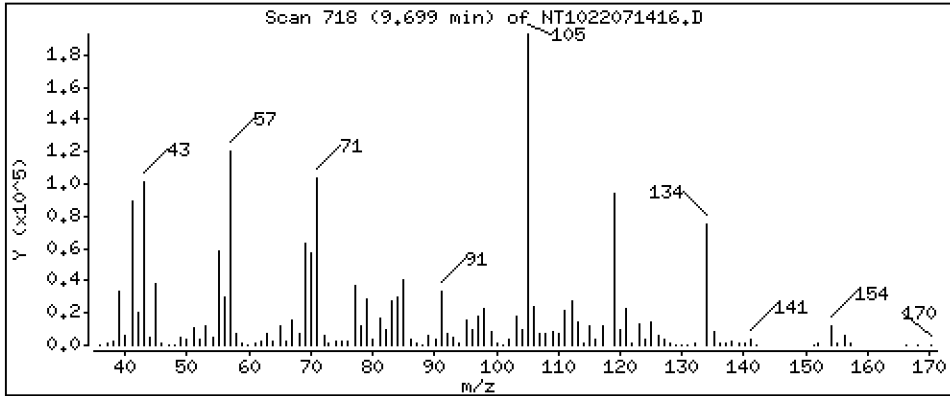
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 5,906 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

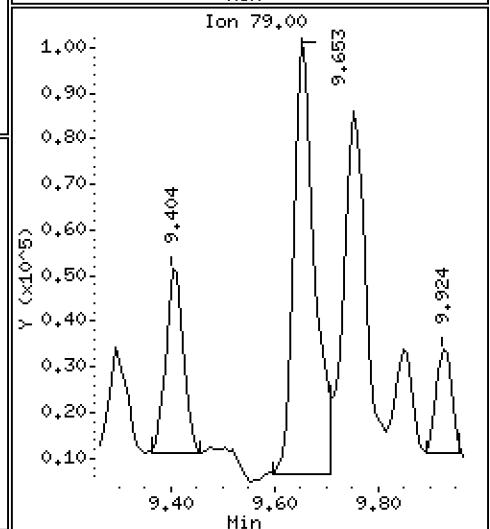
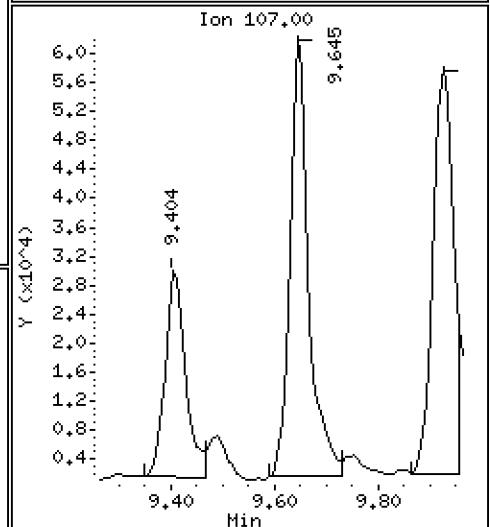
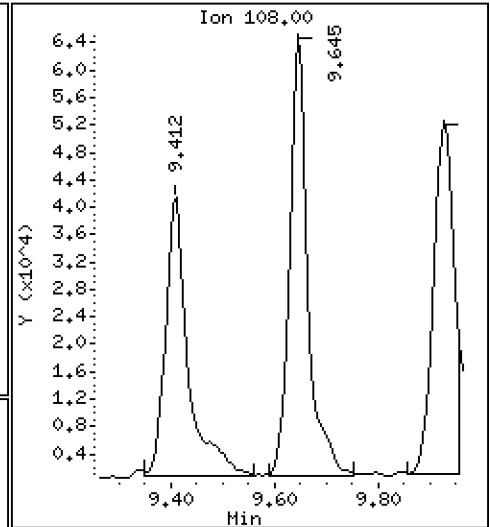
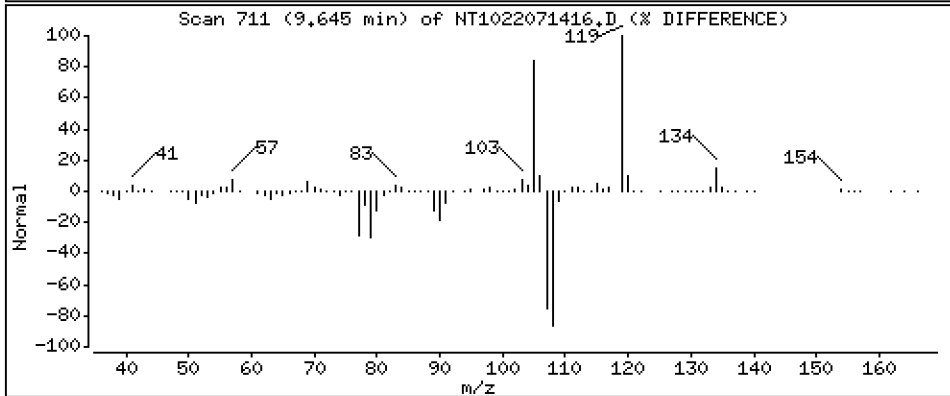
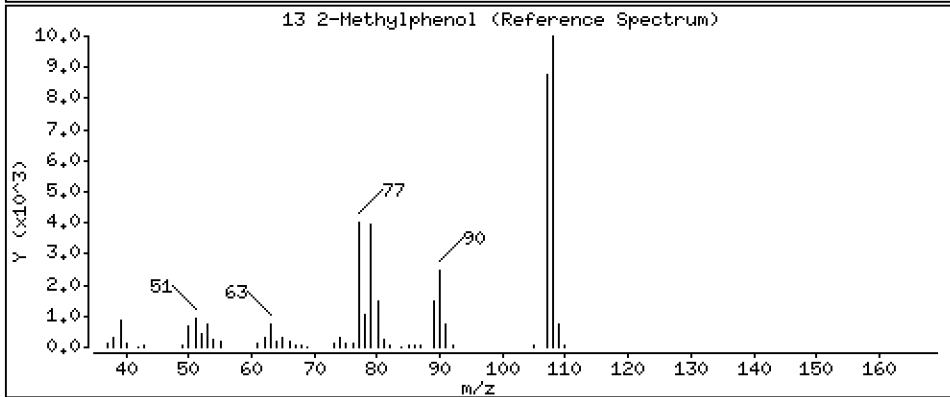
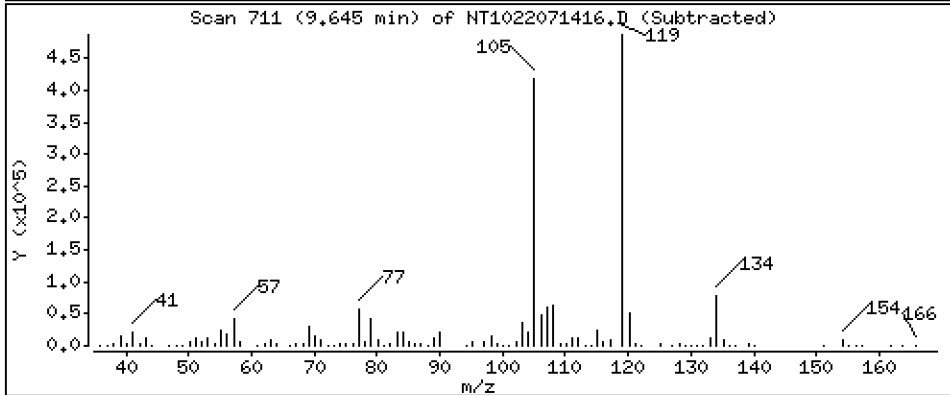
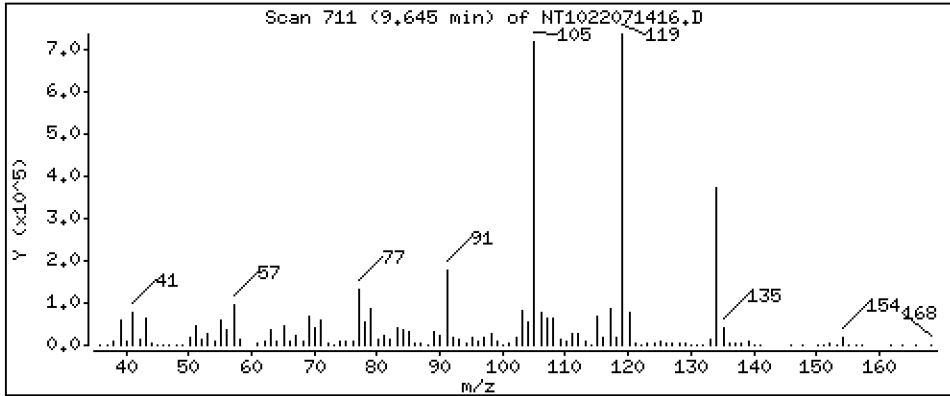
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 3,739 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

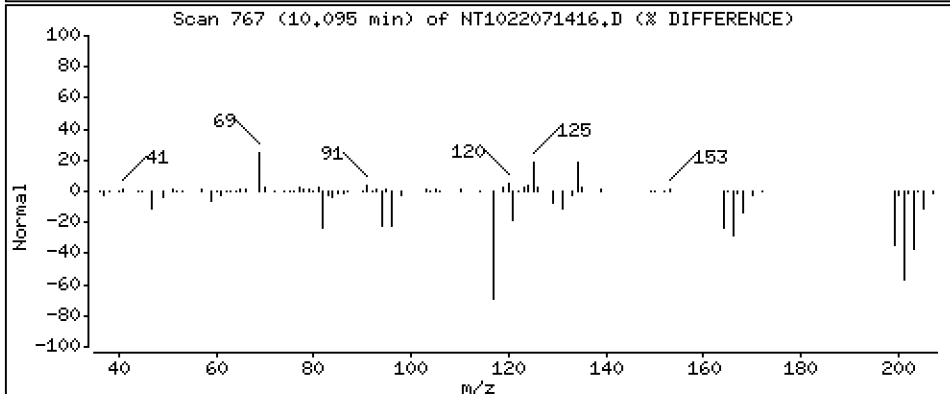
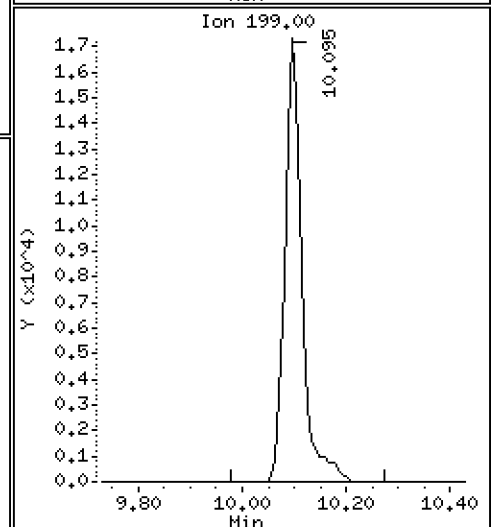
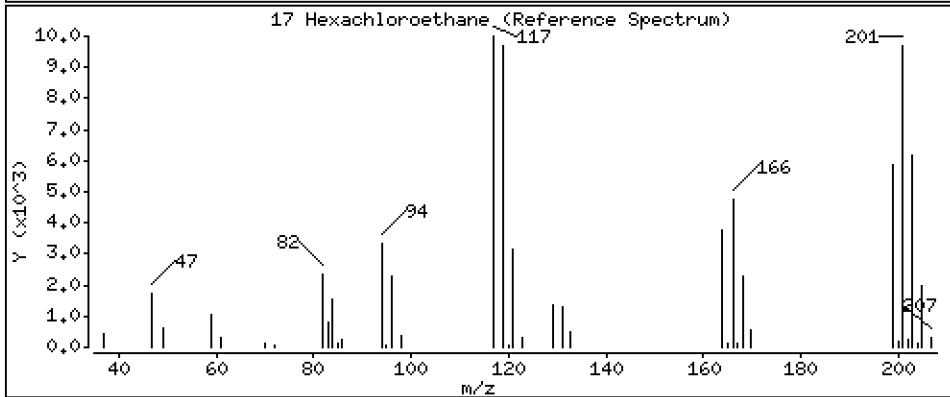
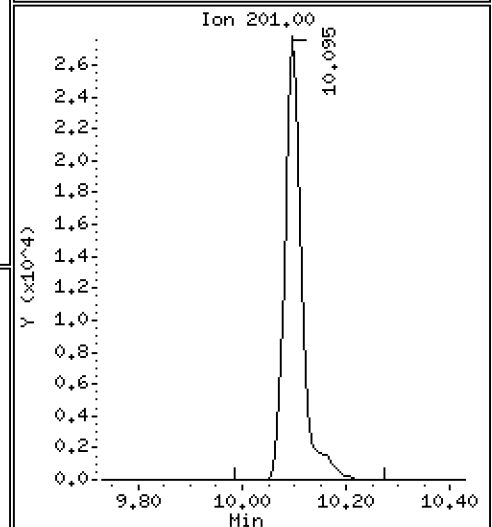
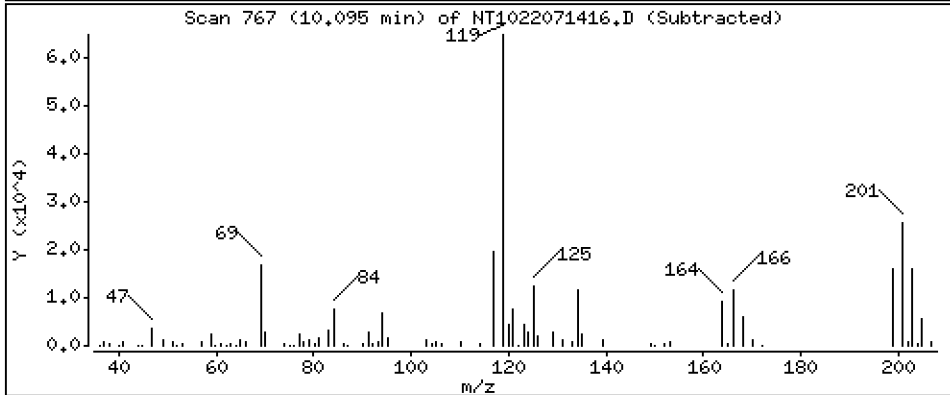
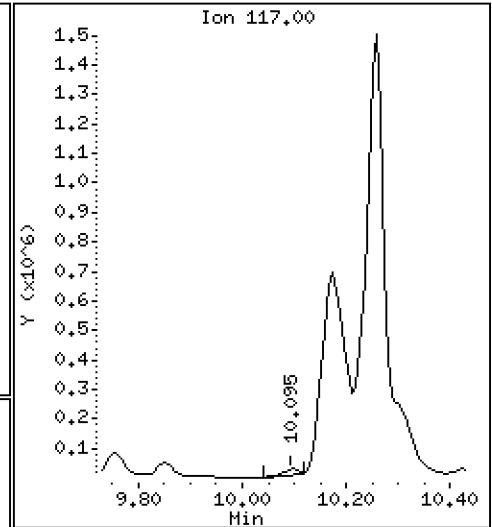
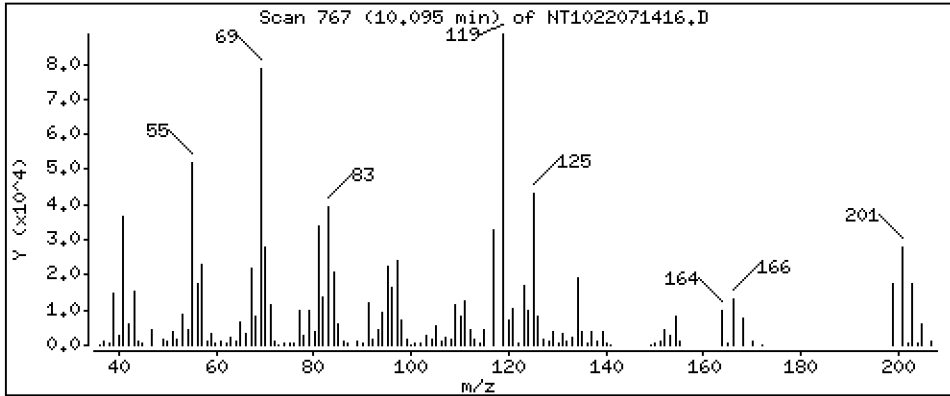
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 1,856 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

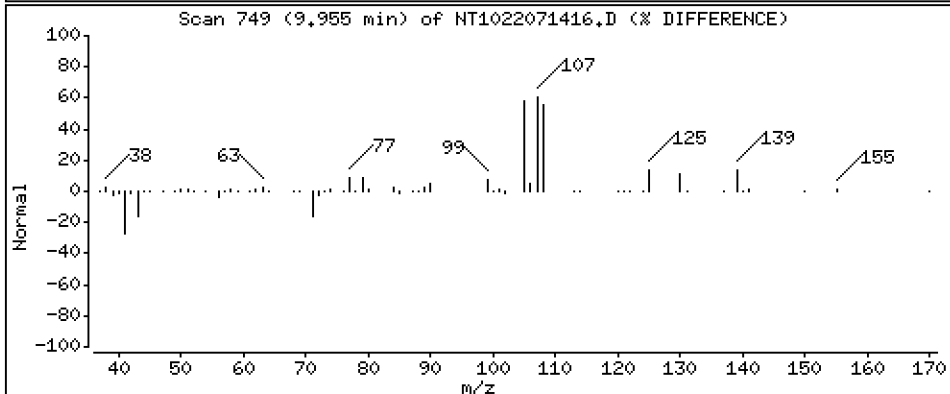
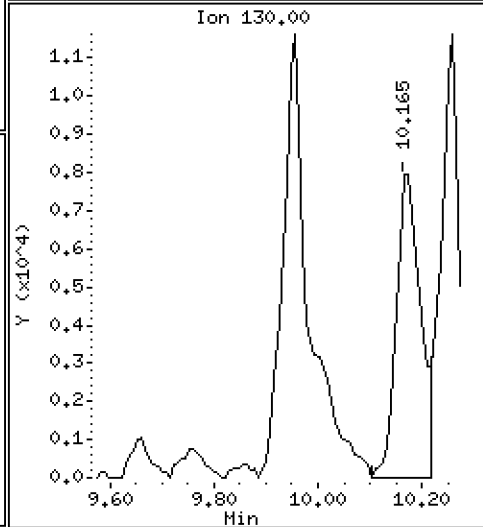
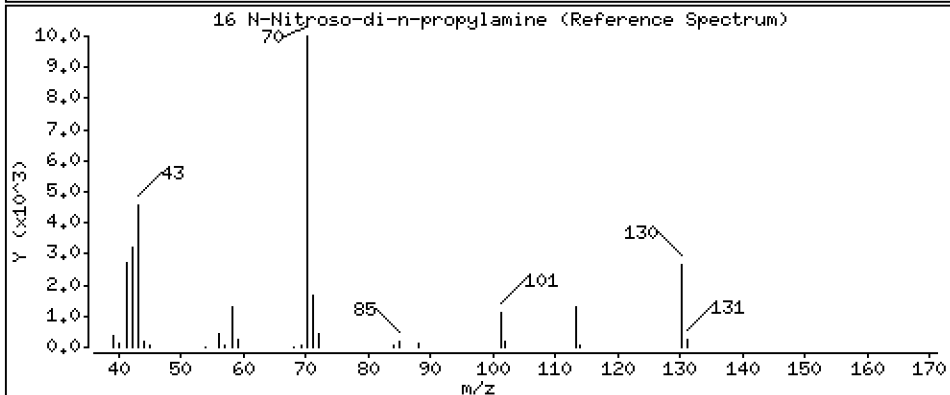
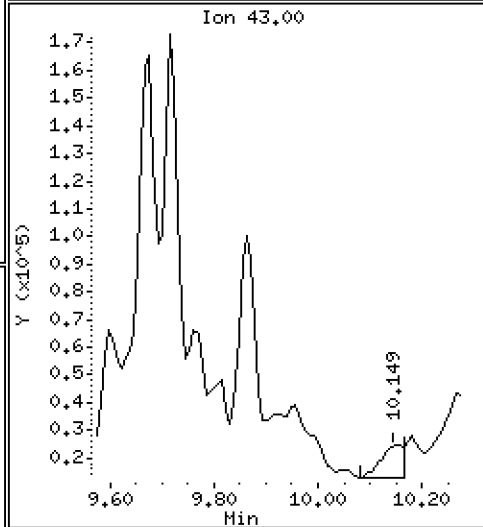
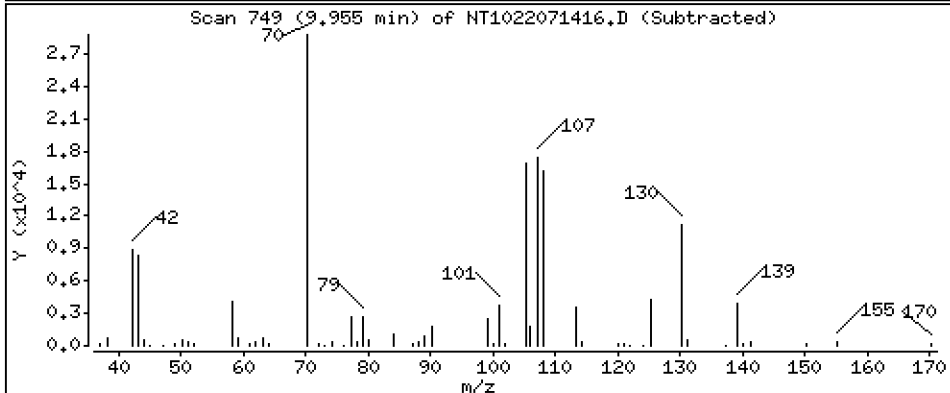
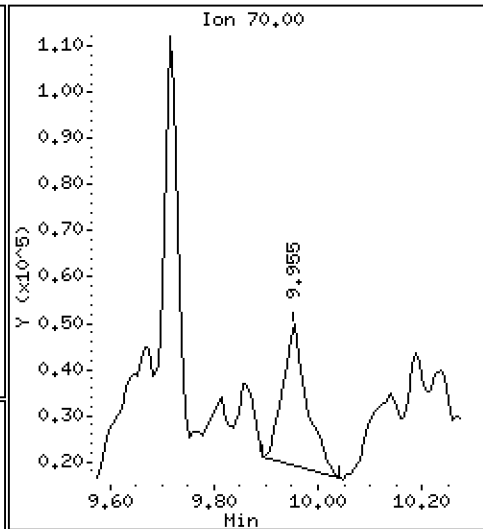
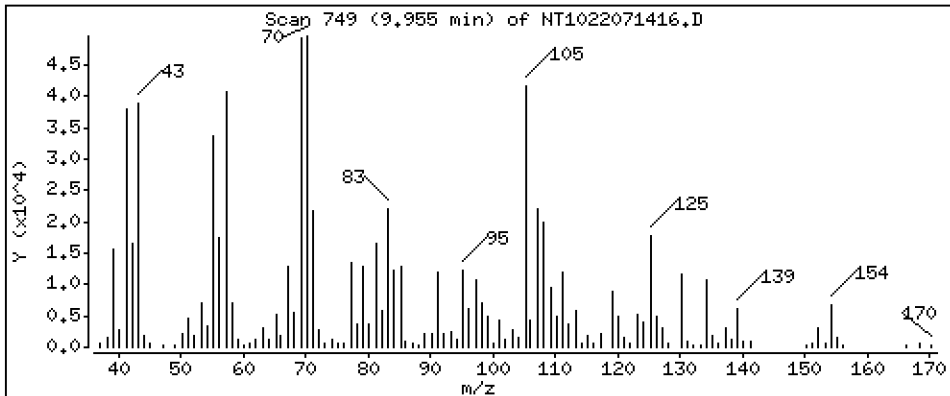
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 3,356 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

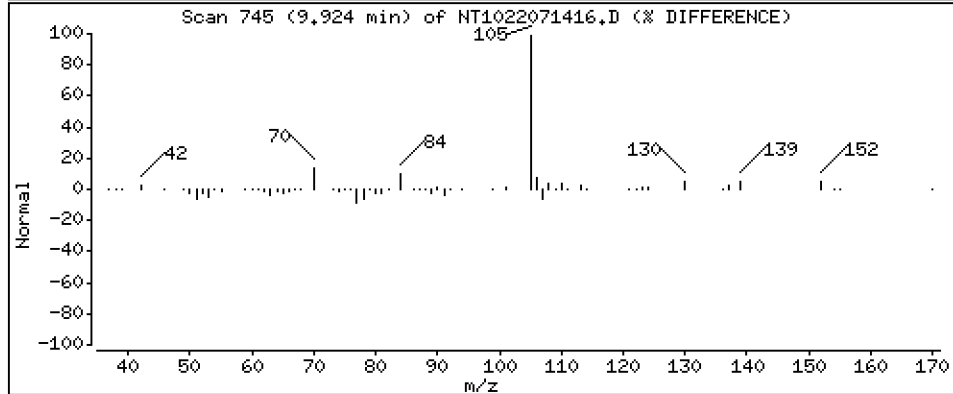
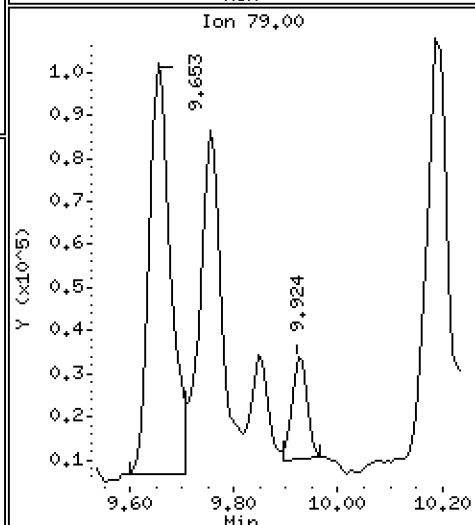
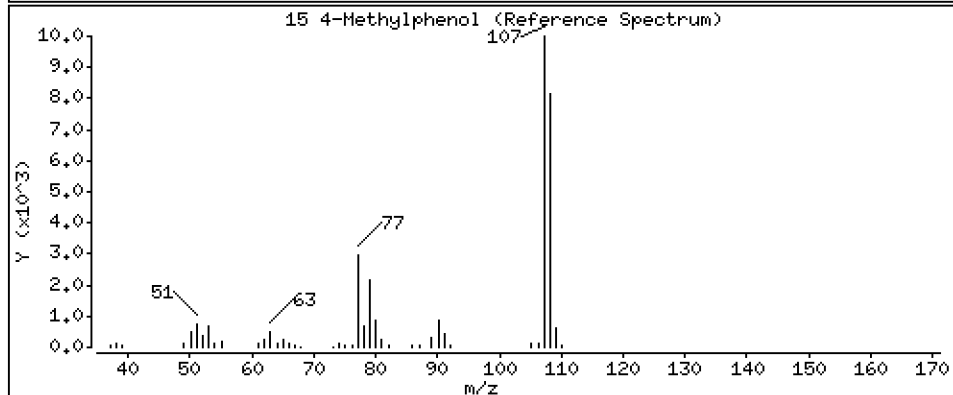
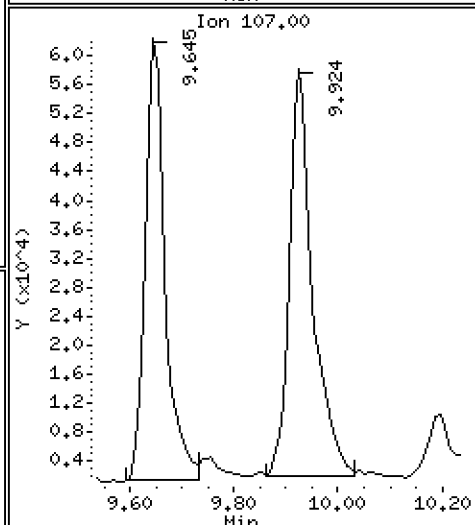
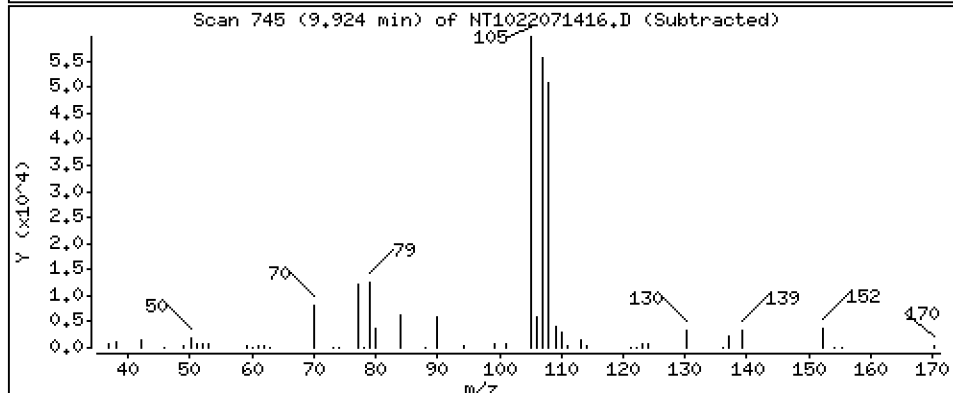
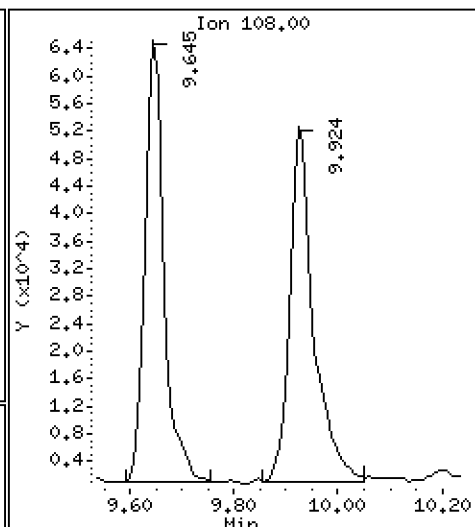
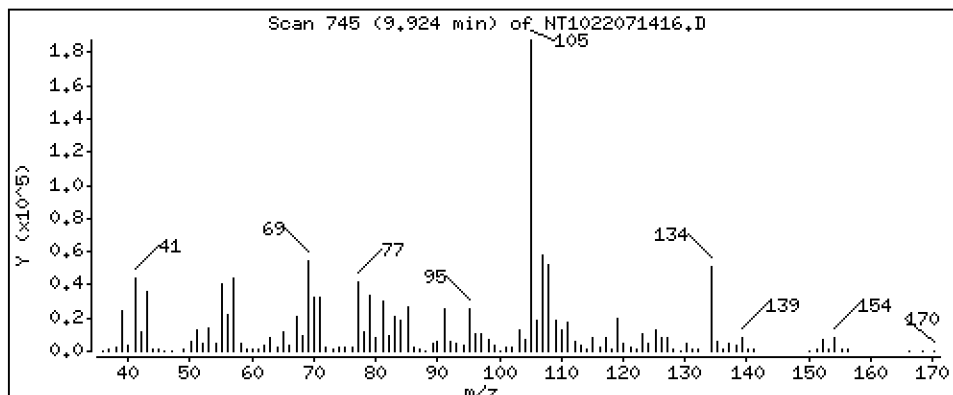
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 3,685 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

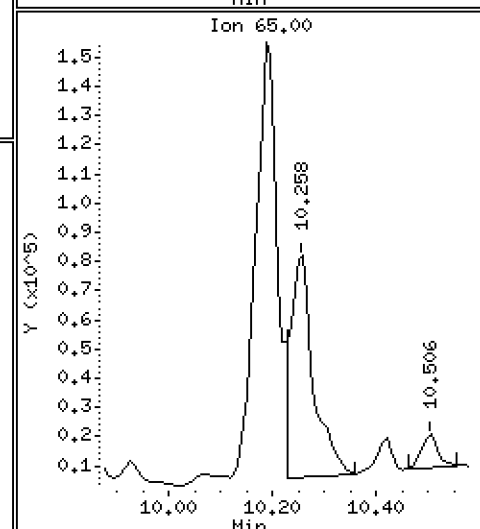
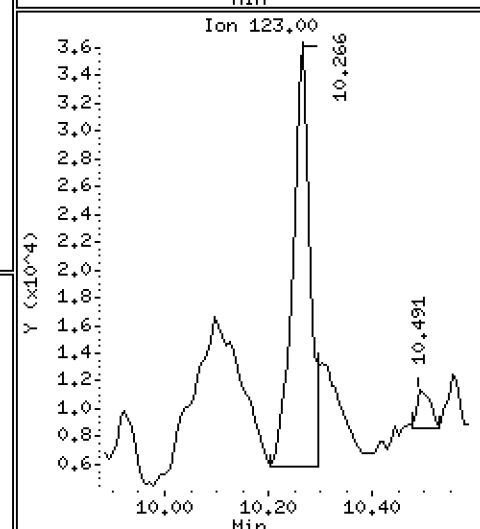
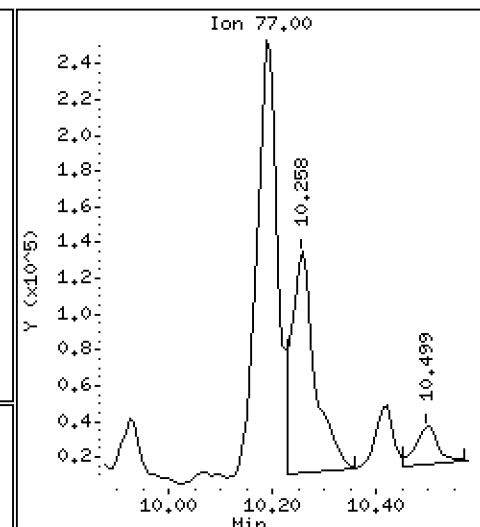
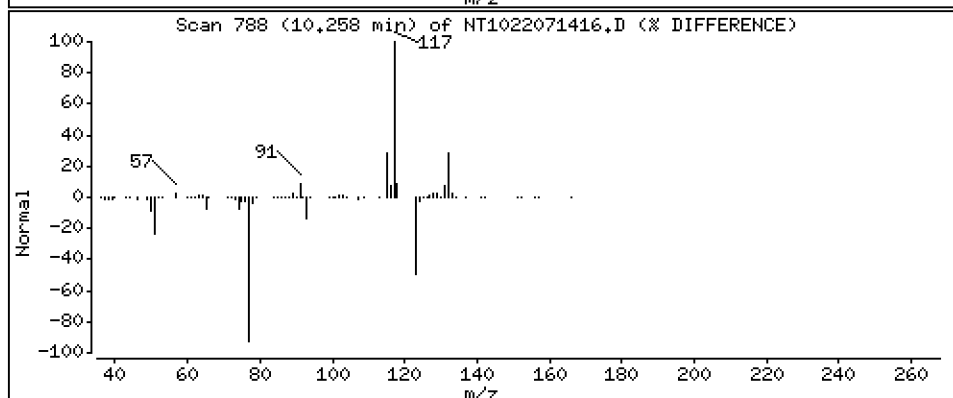
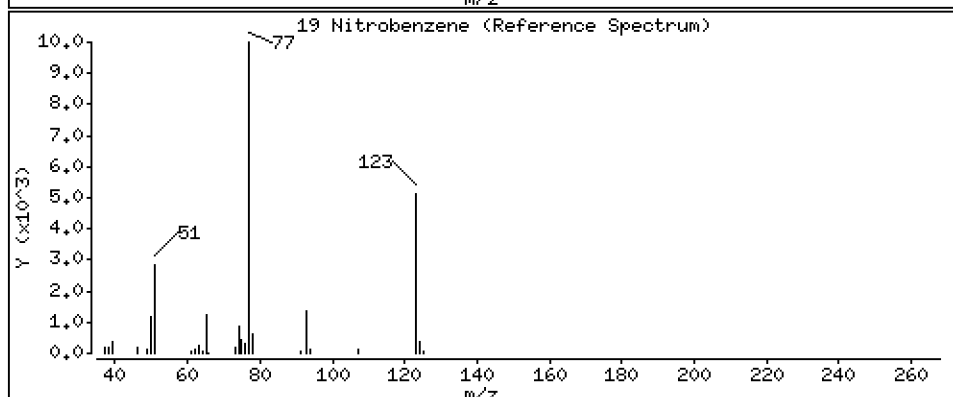
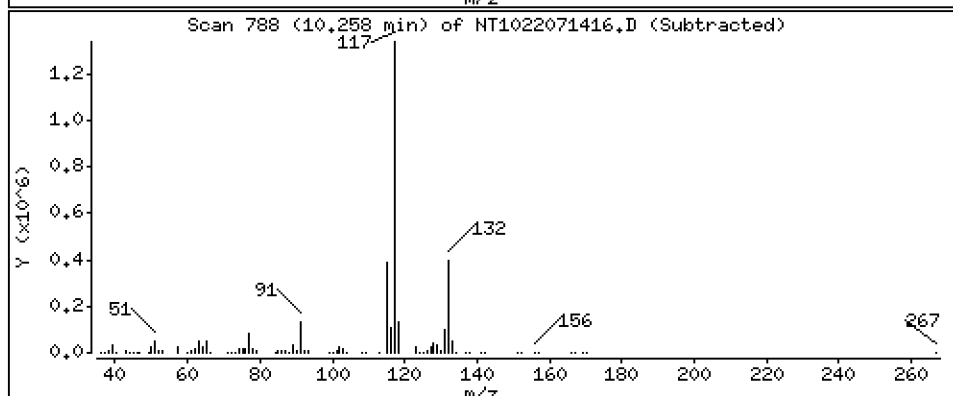
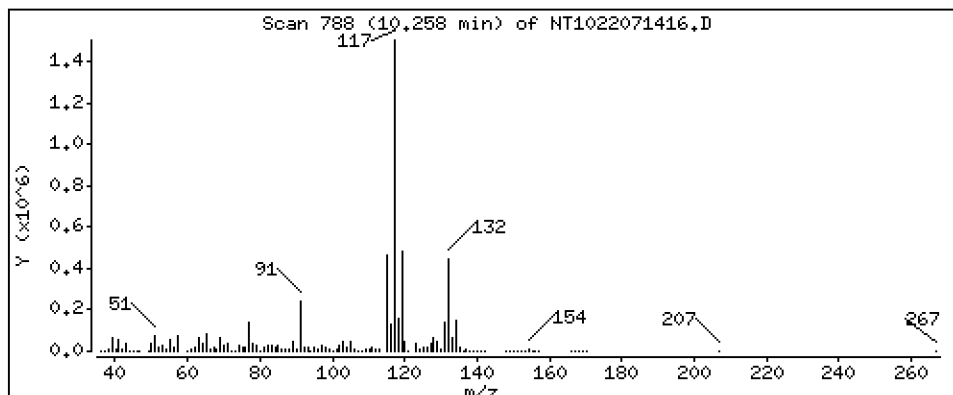
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 9,049 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

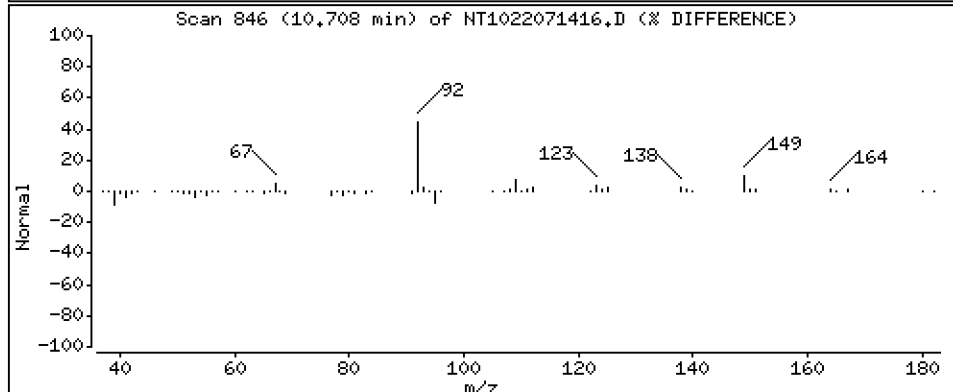
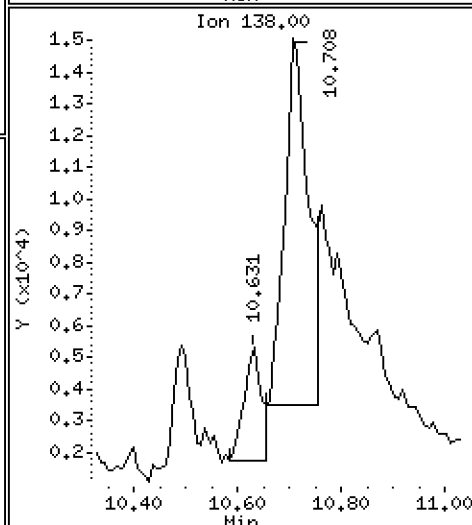
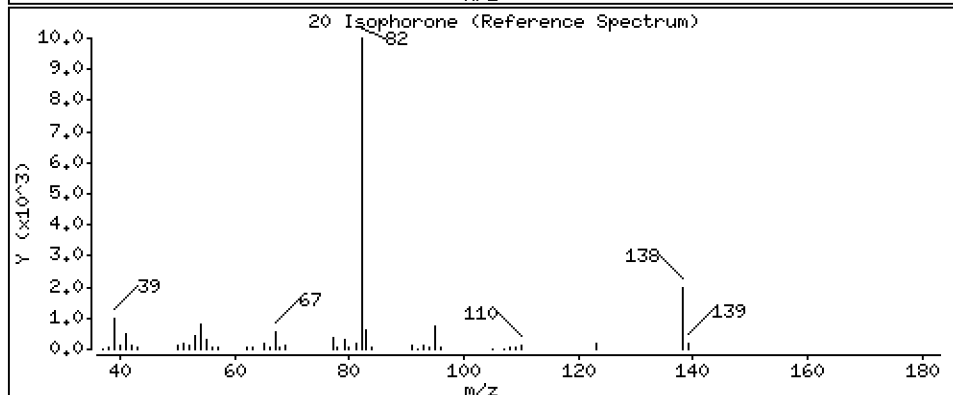
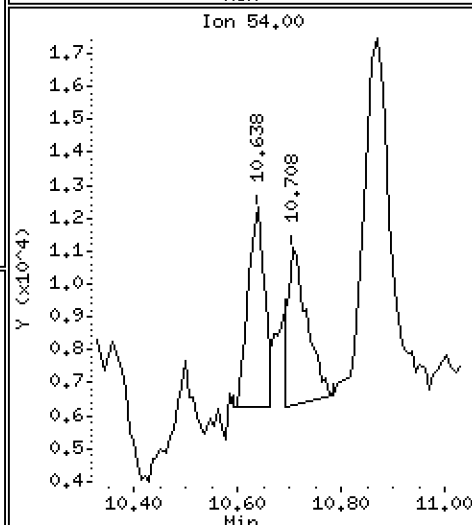
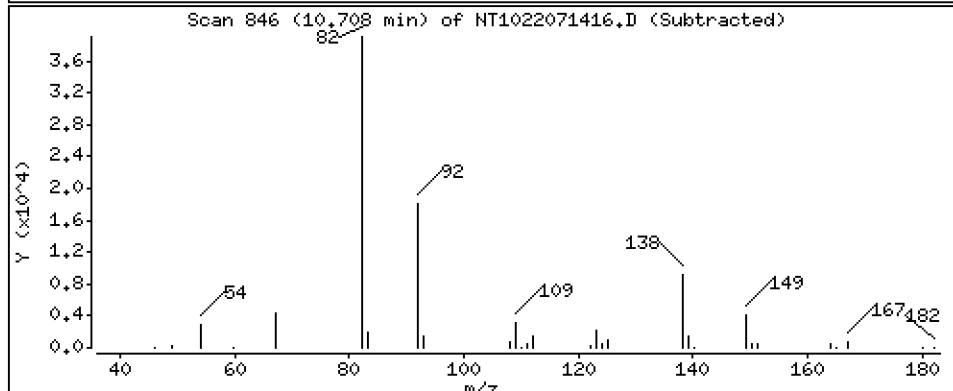
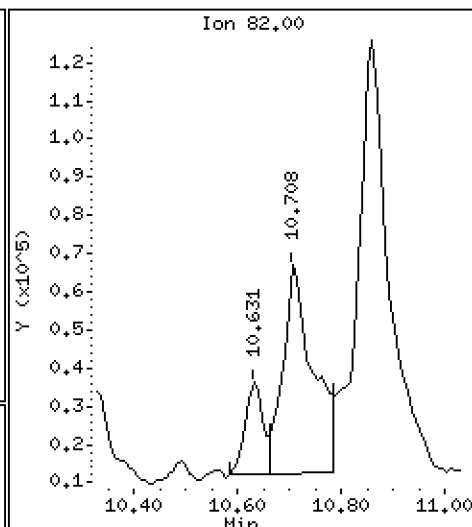
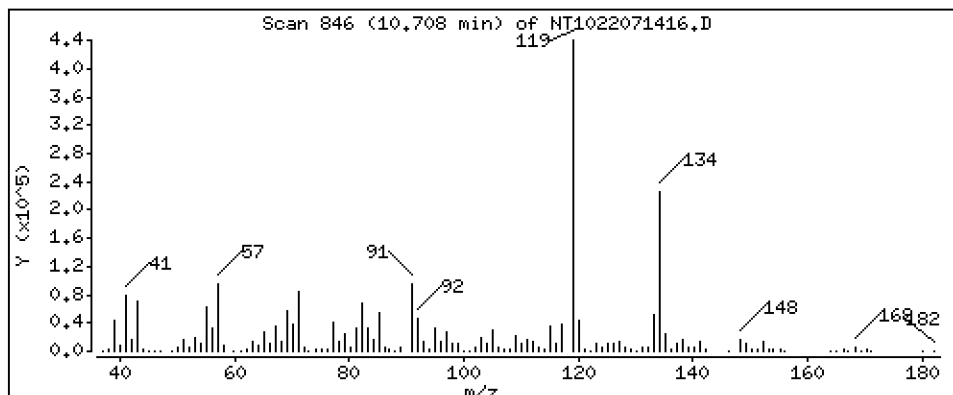
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 3,432 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

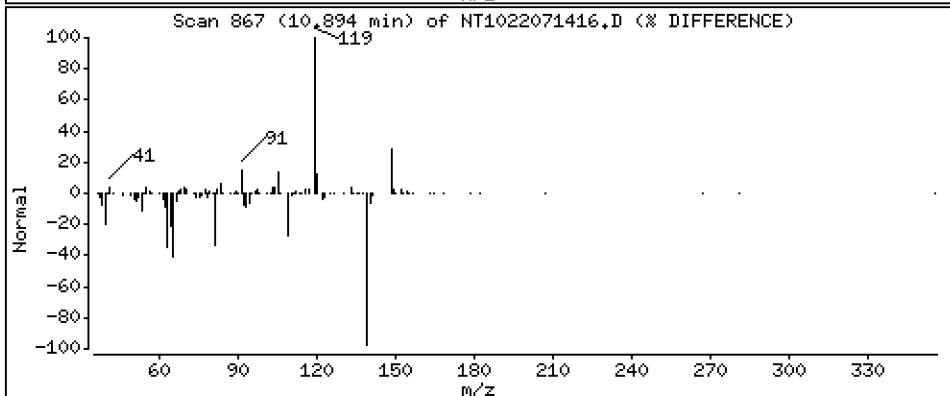
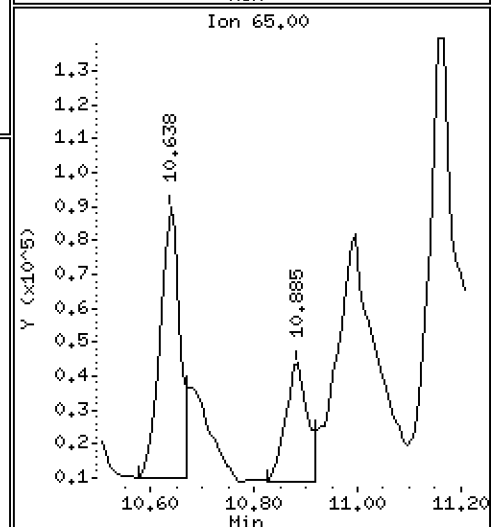
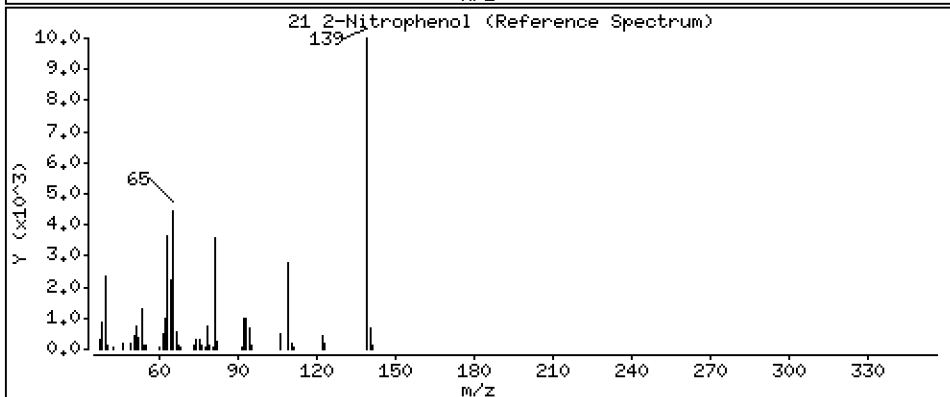
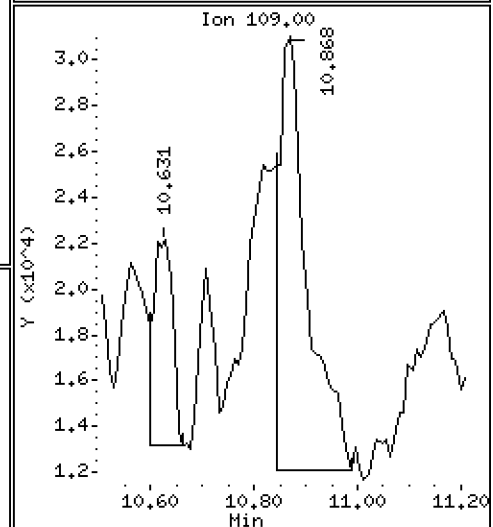
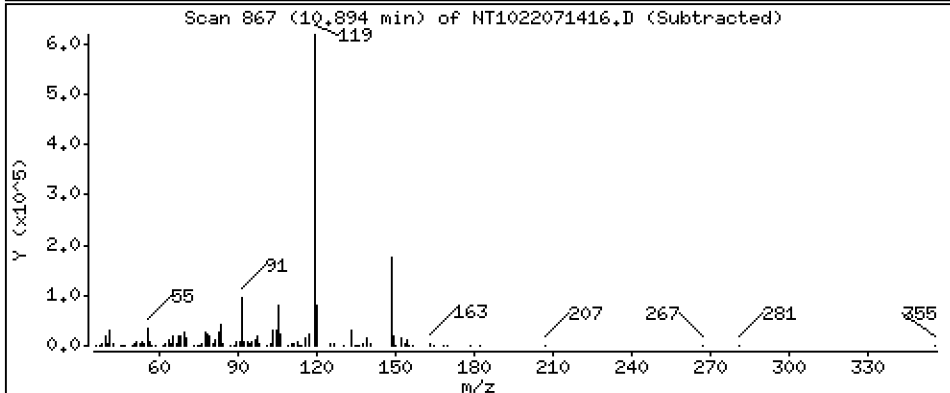
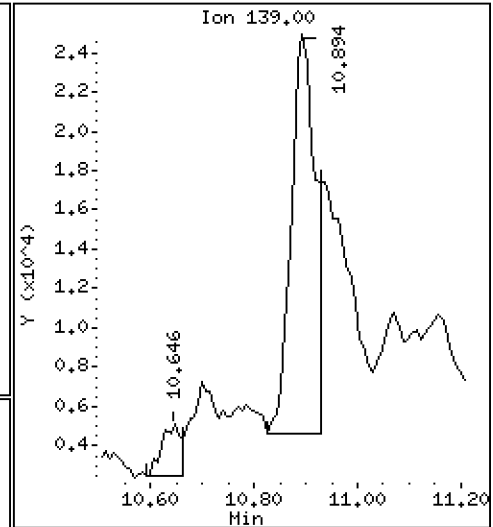
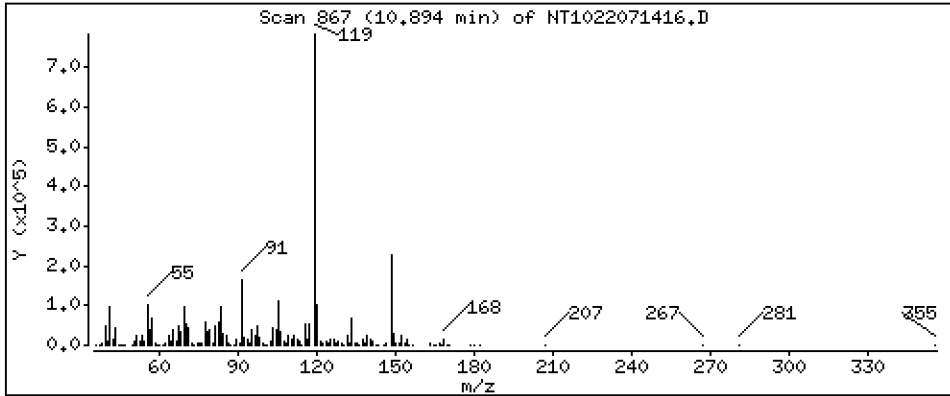
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 2,342 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

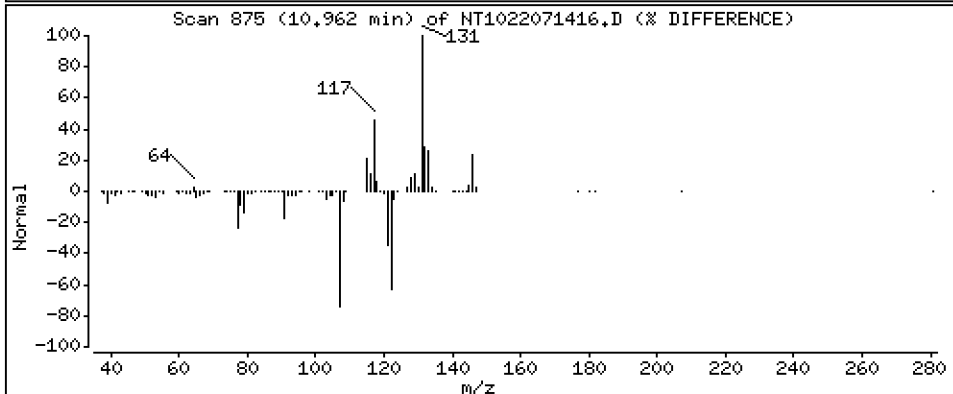
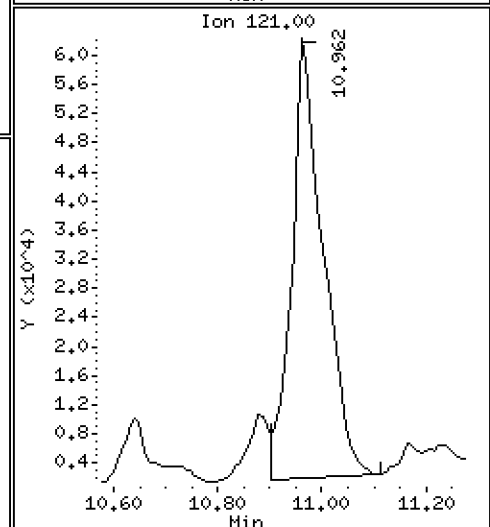
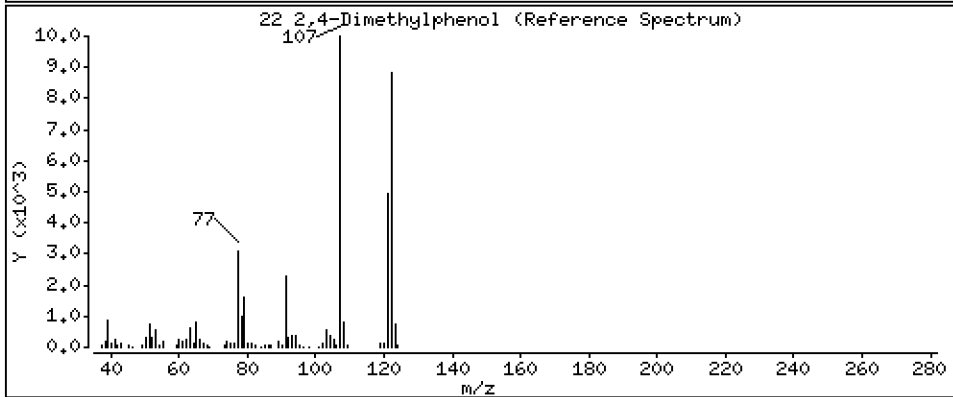
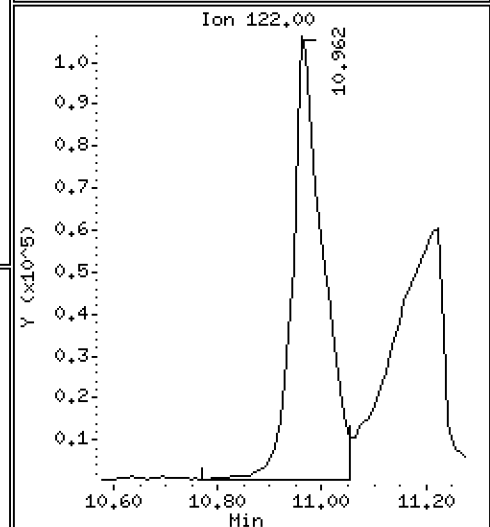
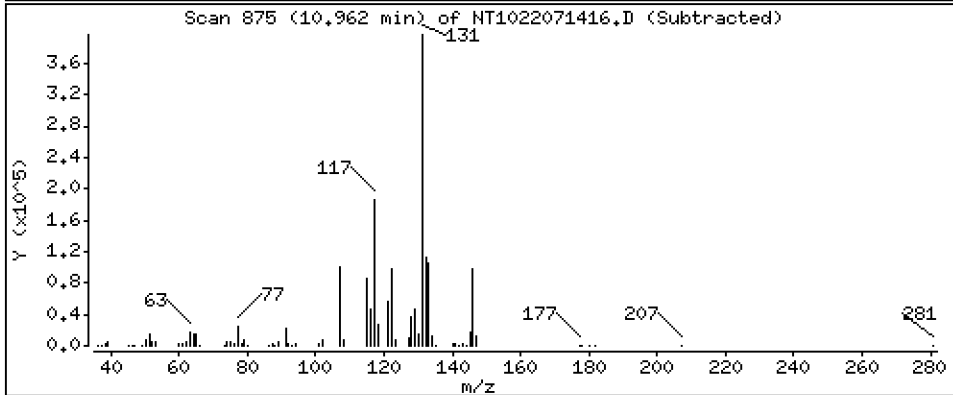
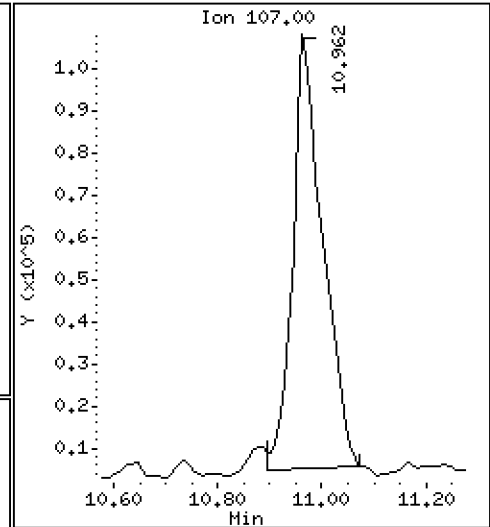
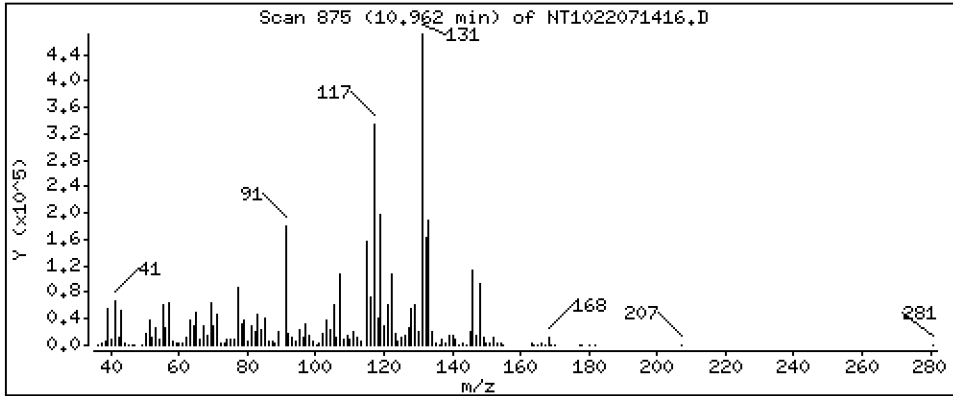
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 12,08 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

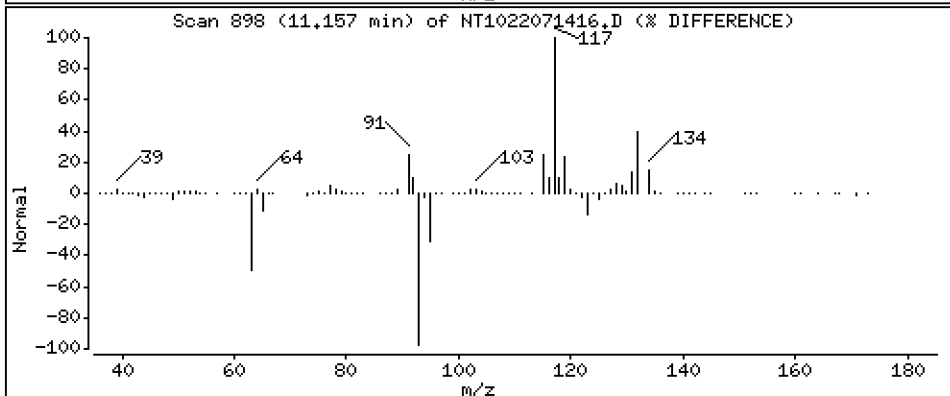
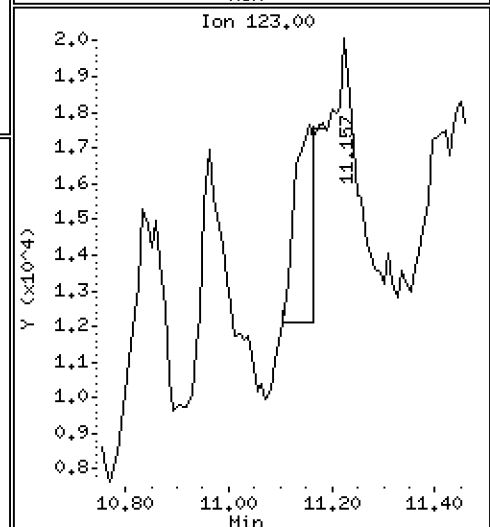
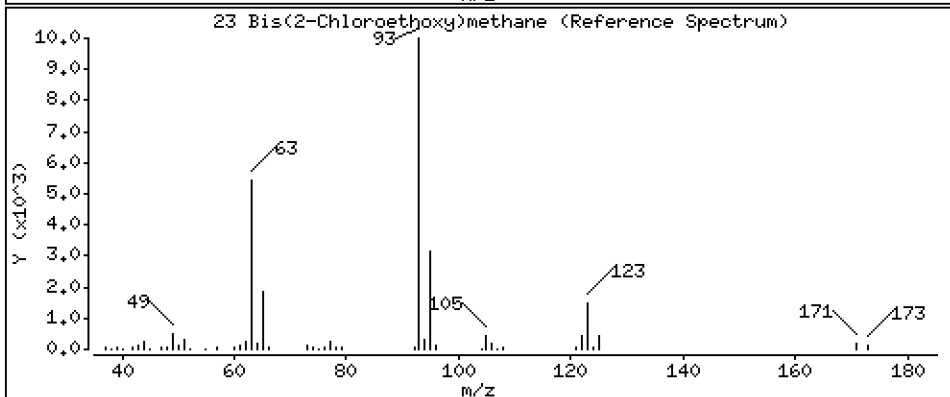
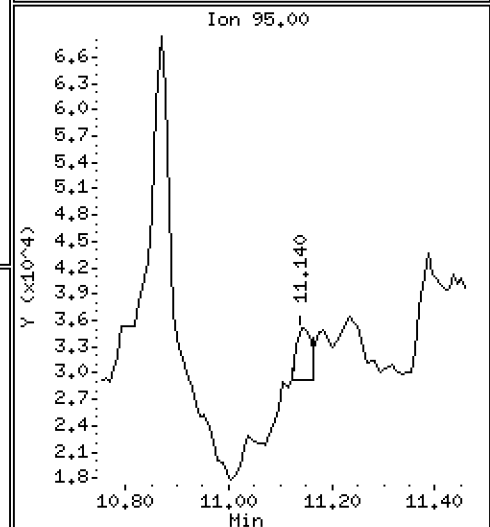
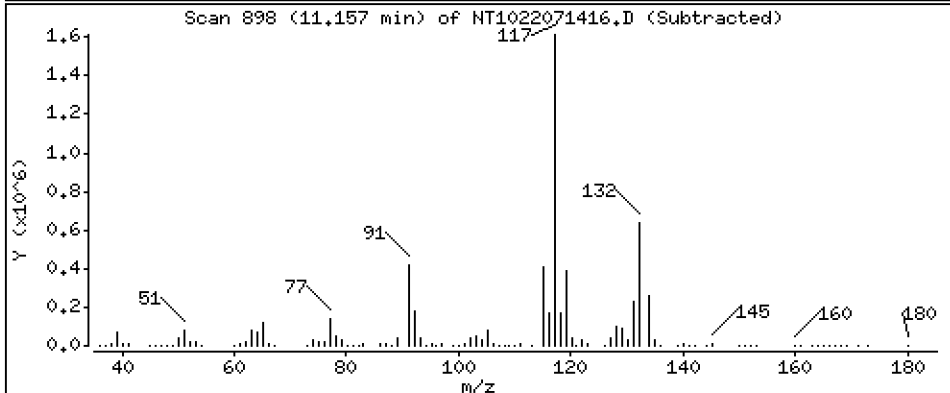
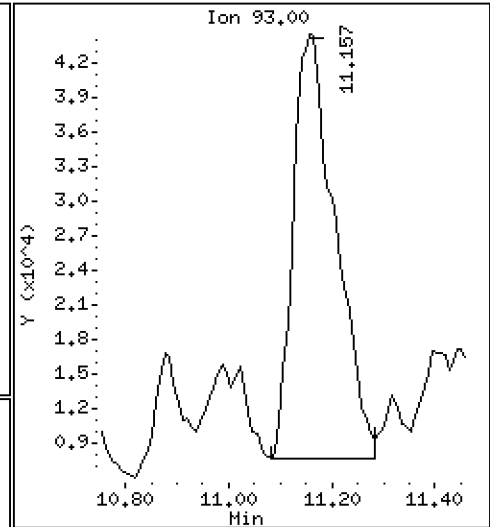
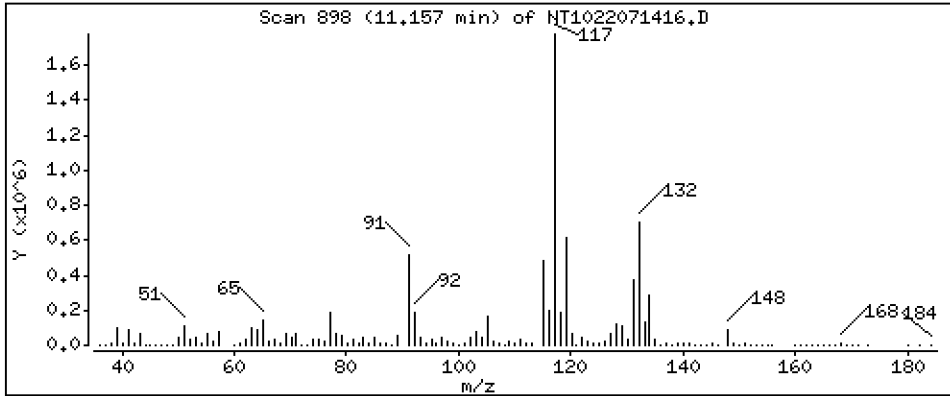
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,352 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

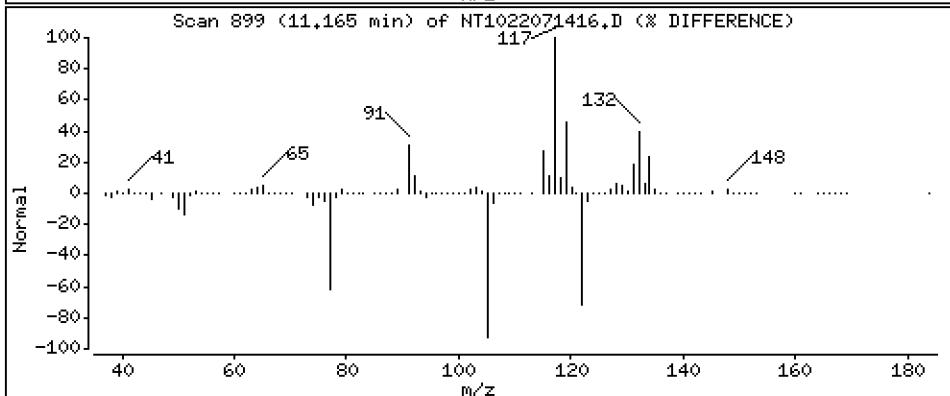
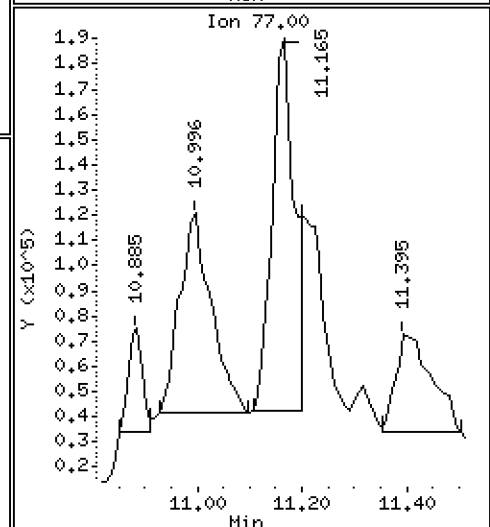
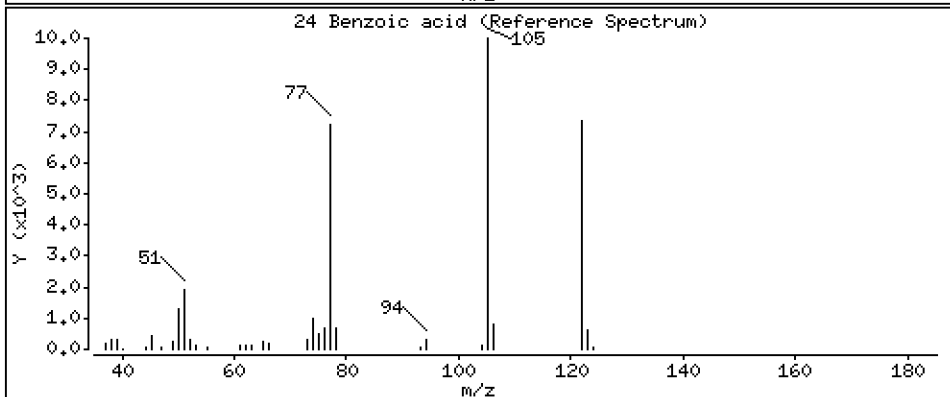
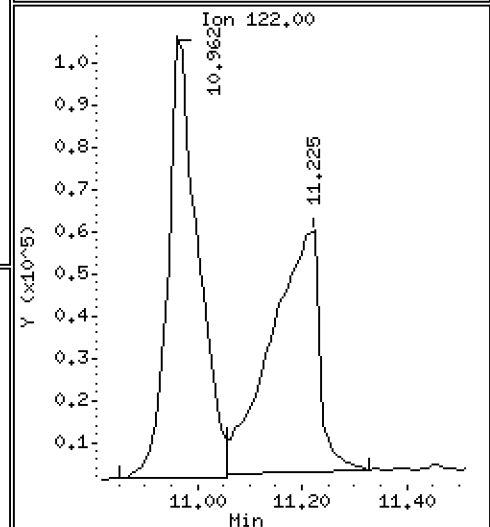
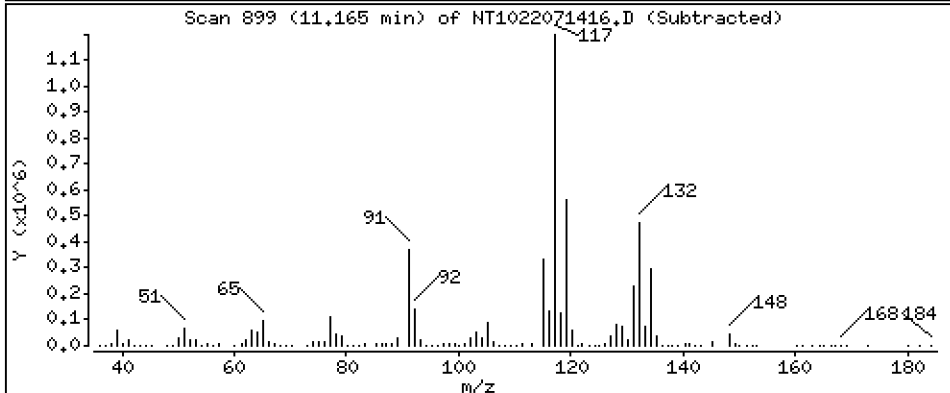
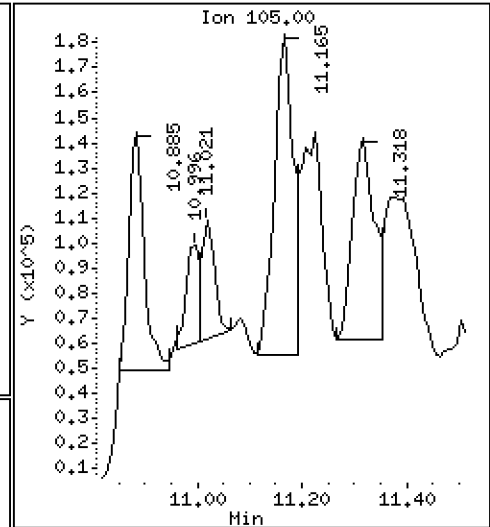
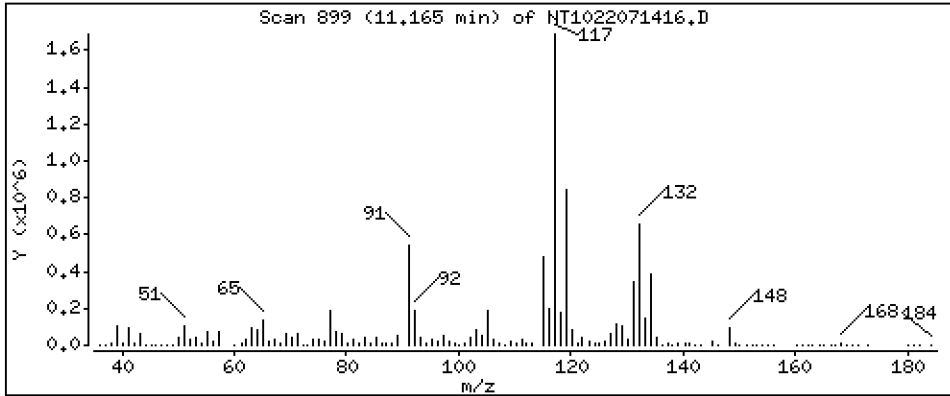
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 17.57 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

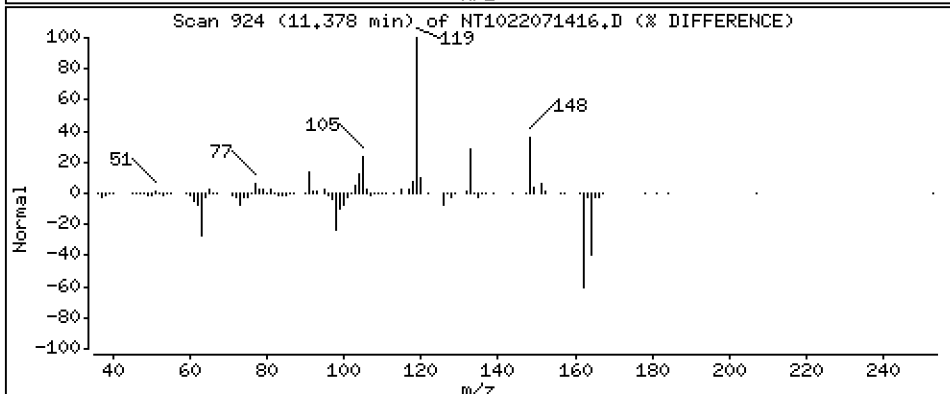
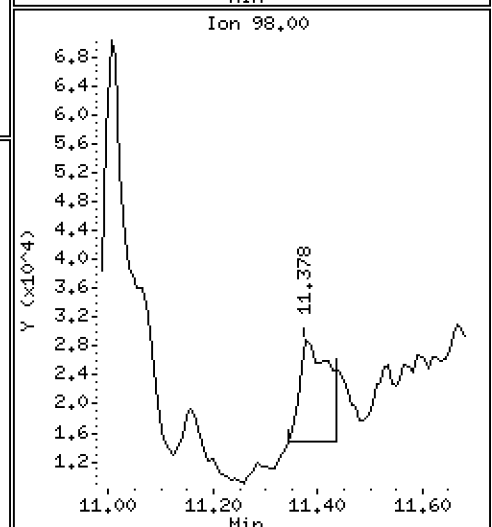
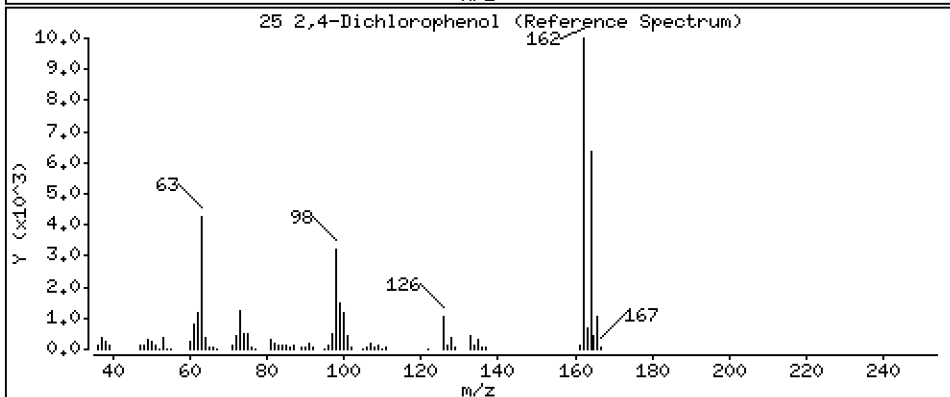
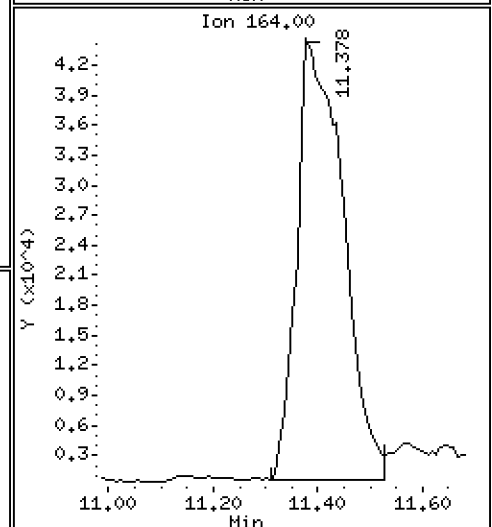
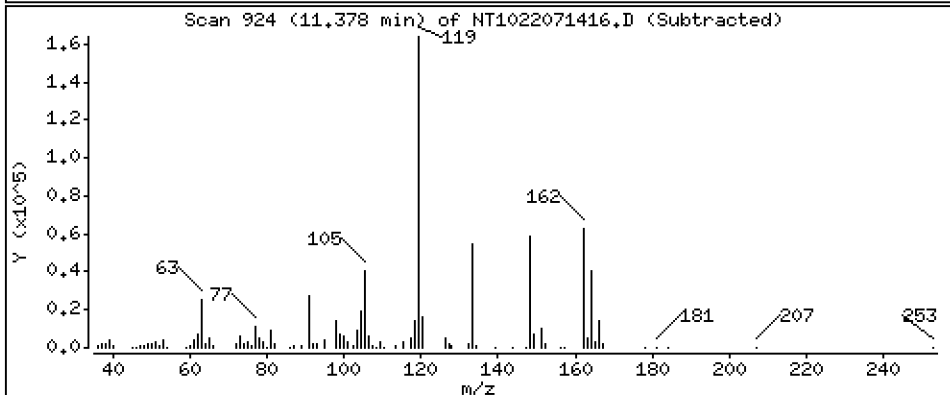
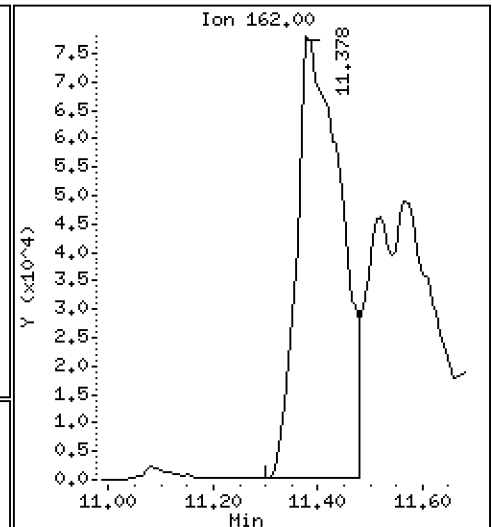
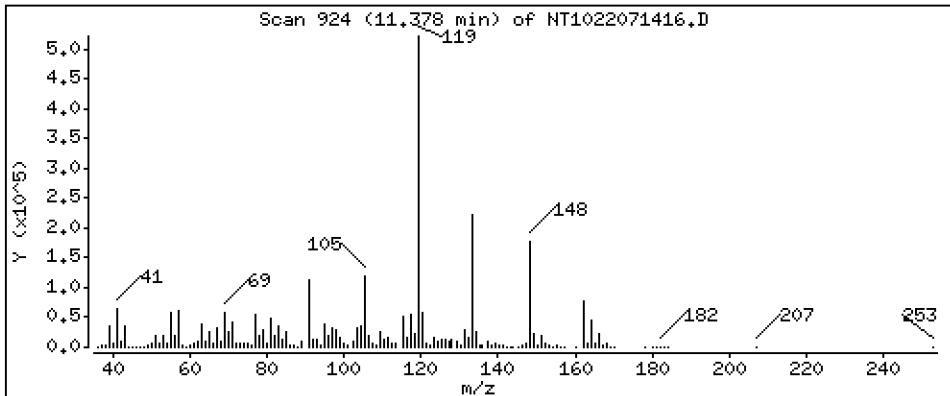
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 12,42 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

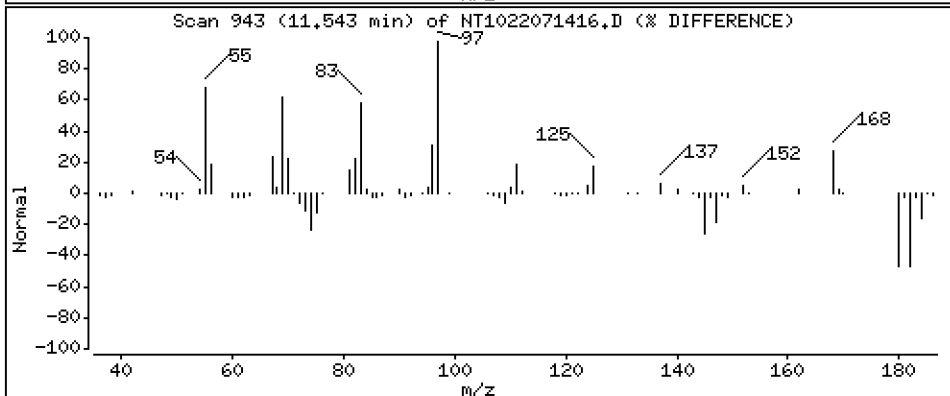
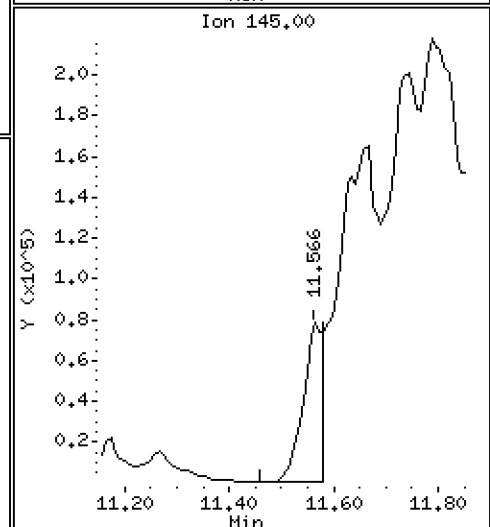
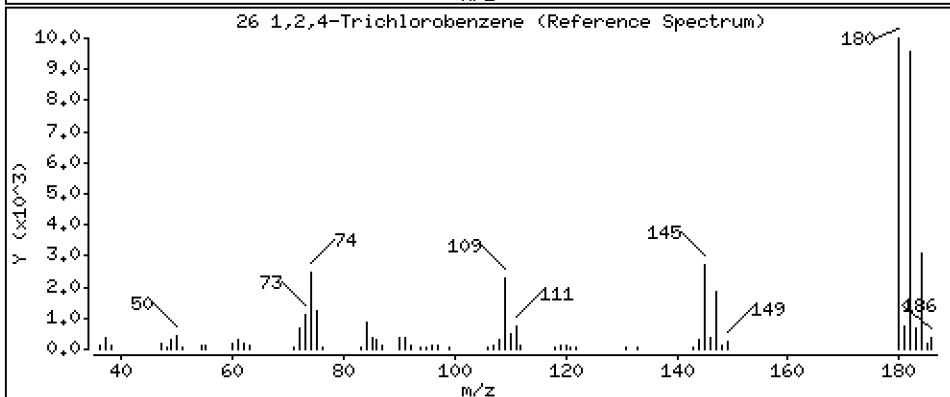
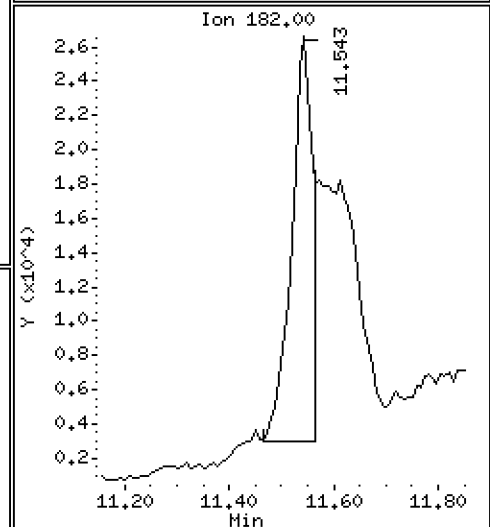
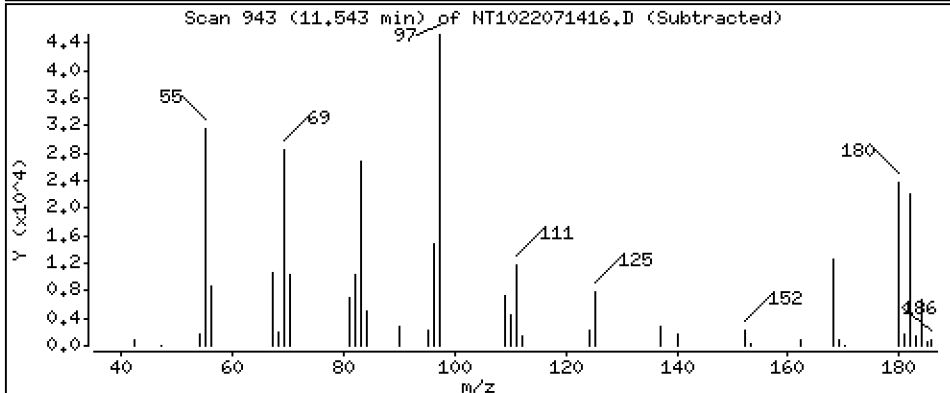
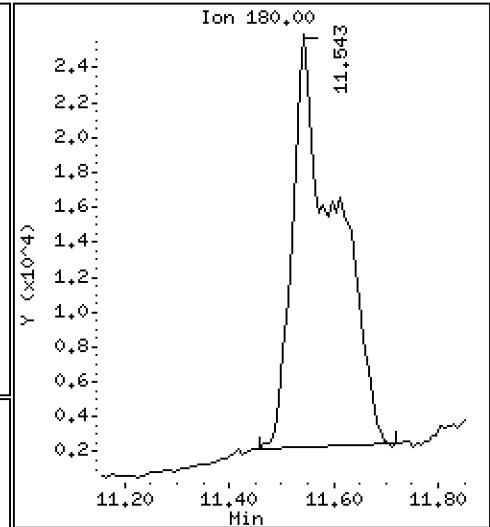
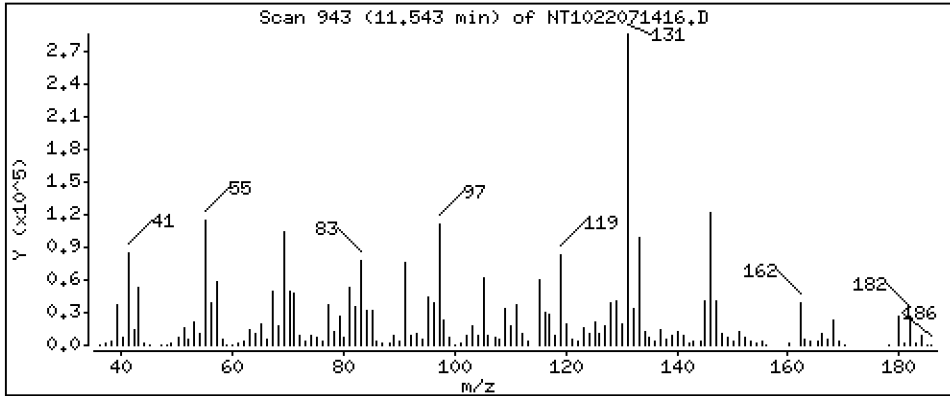
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 3,669 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

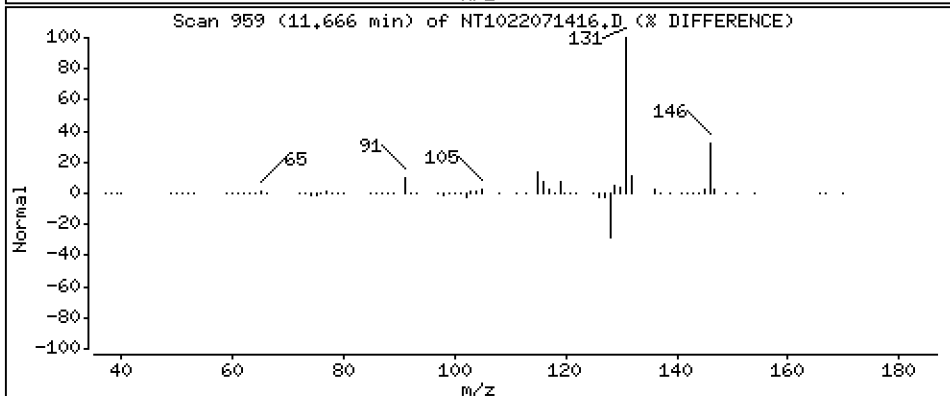
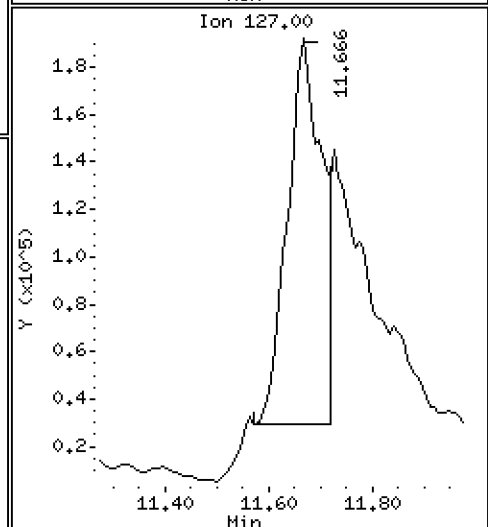
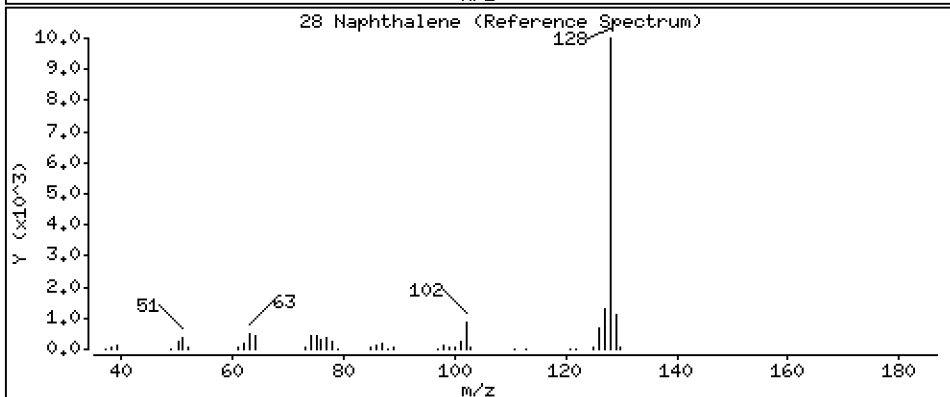
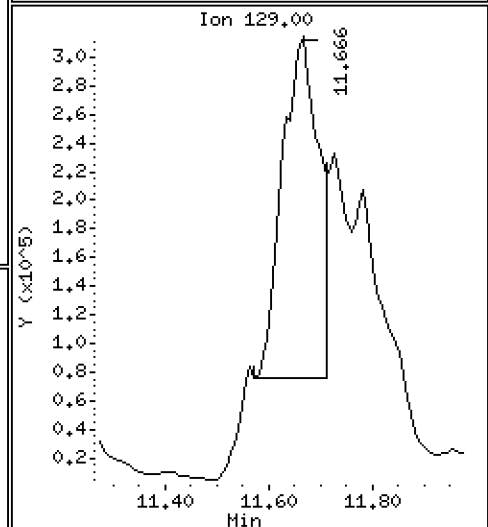
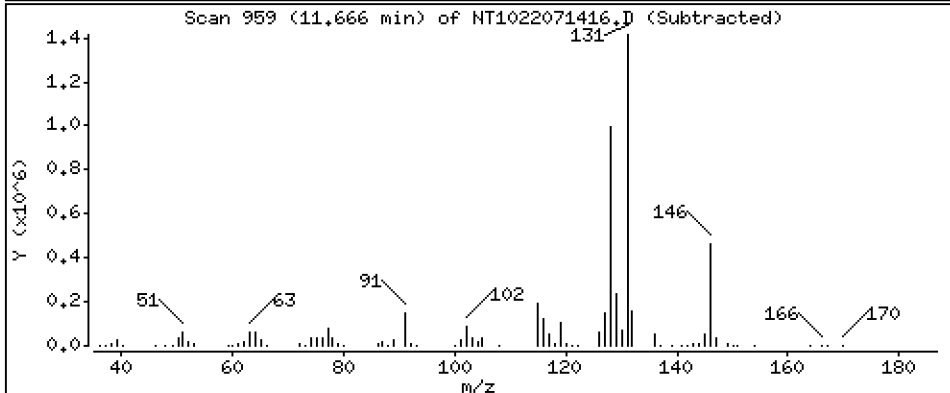
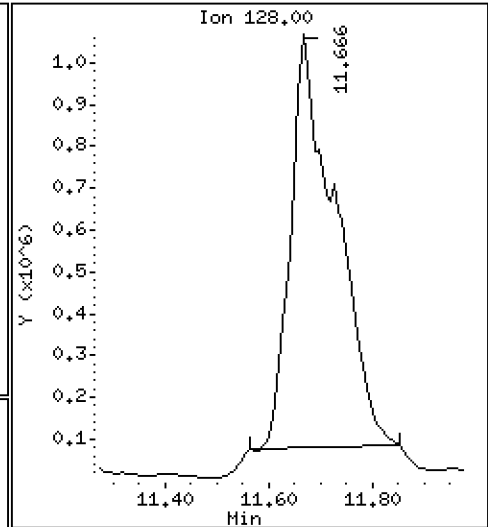
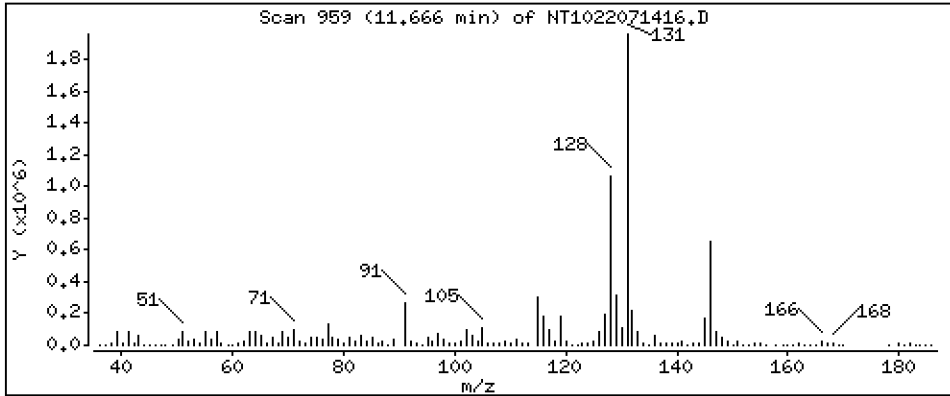
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 55,14 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

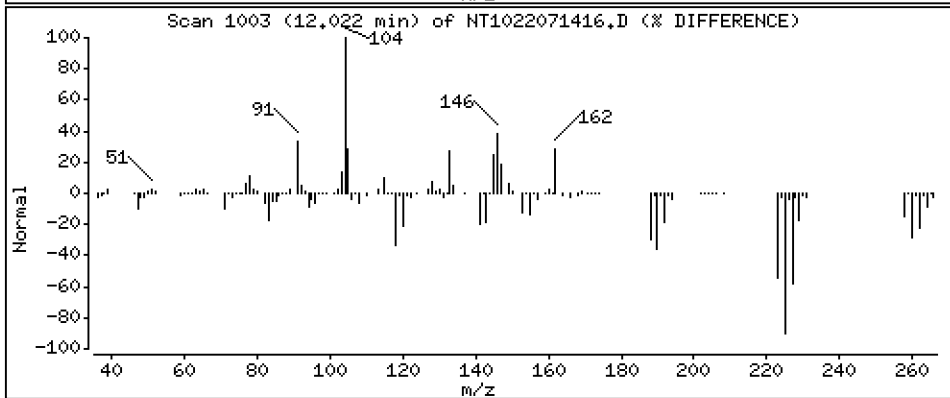
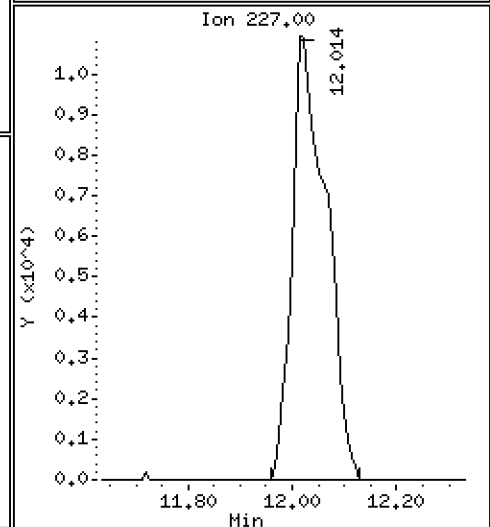
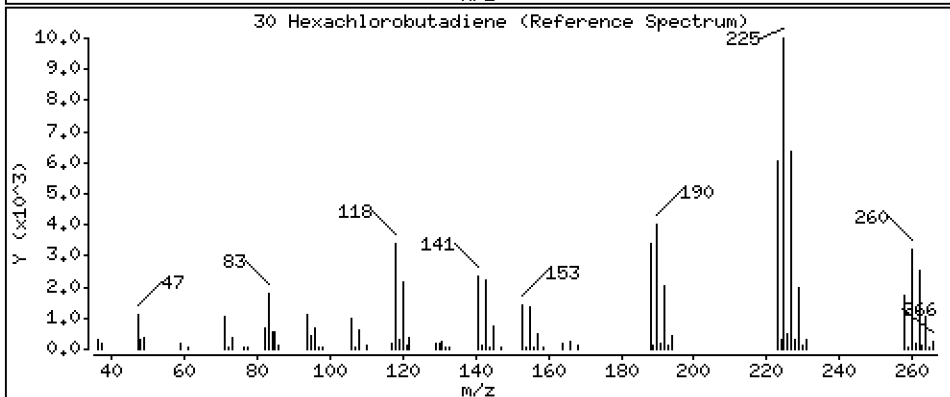
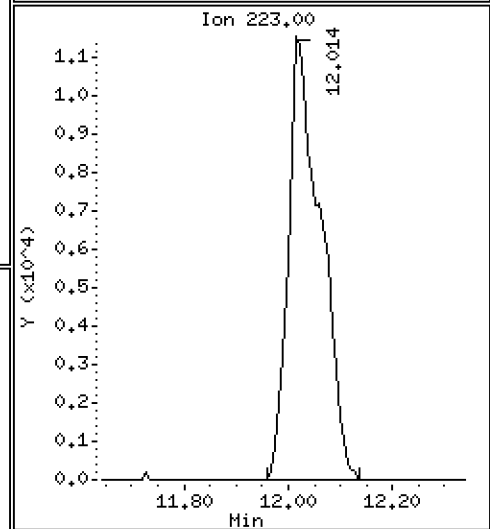
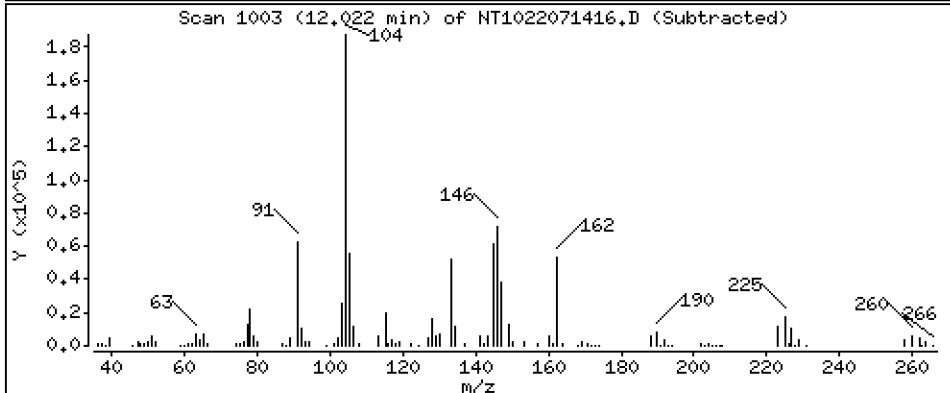
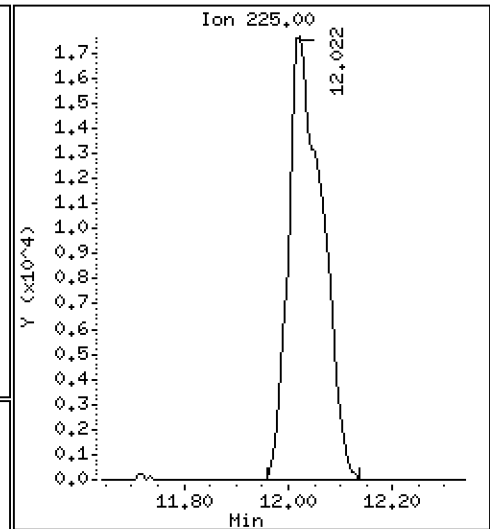
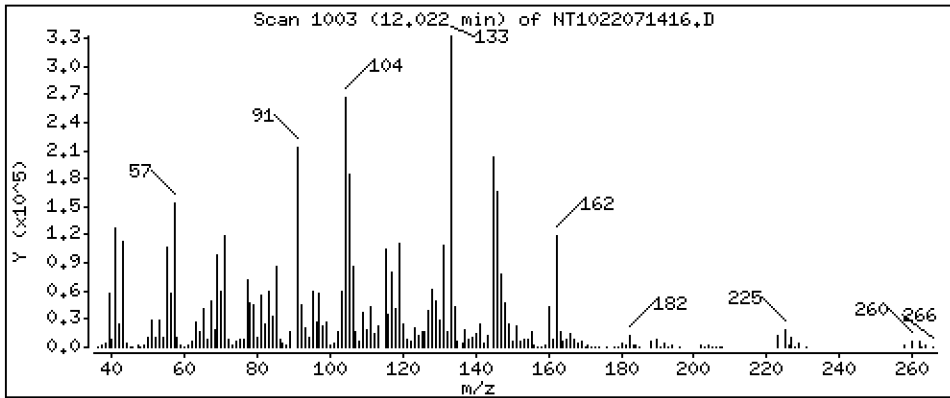
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,478 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

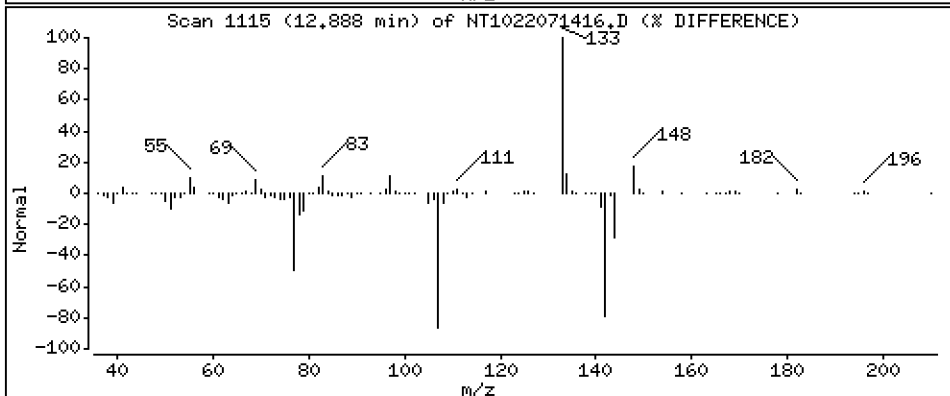
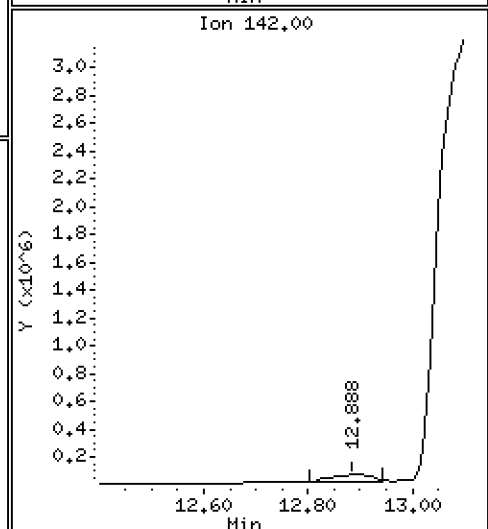
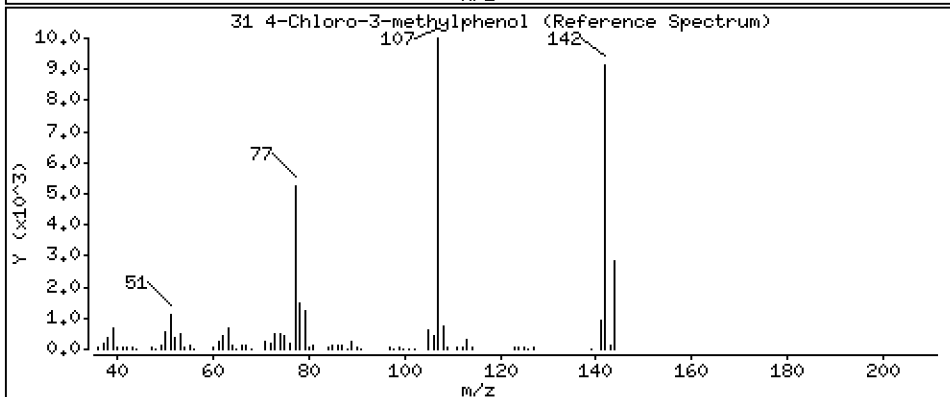
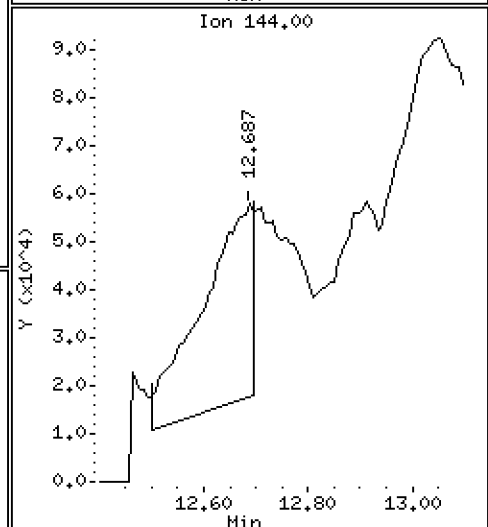
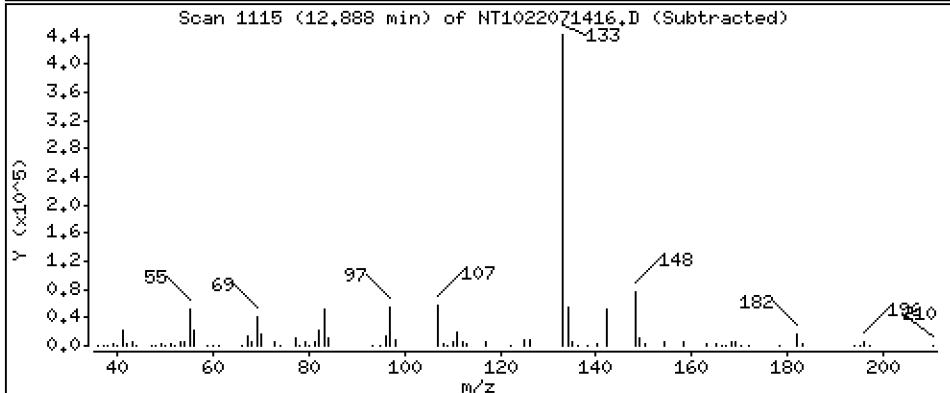
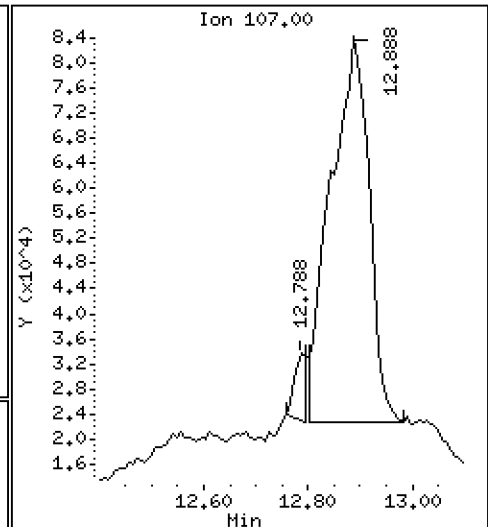
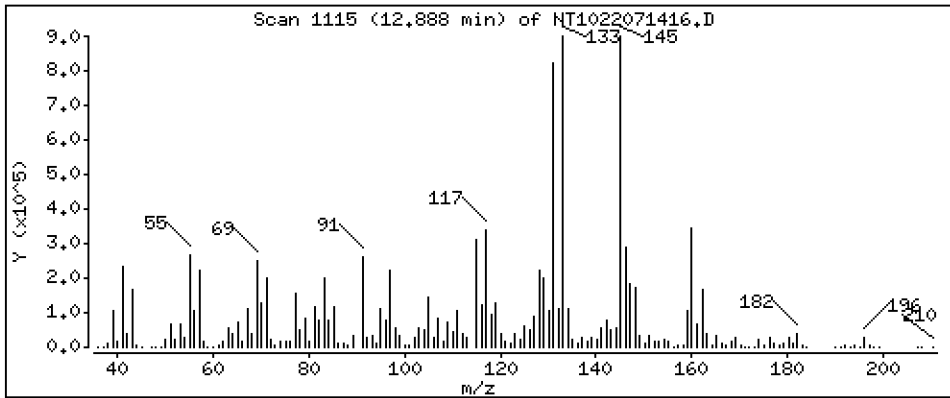
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 7,553 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

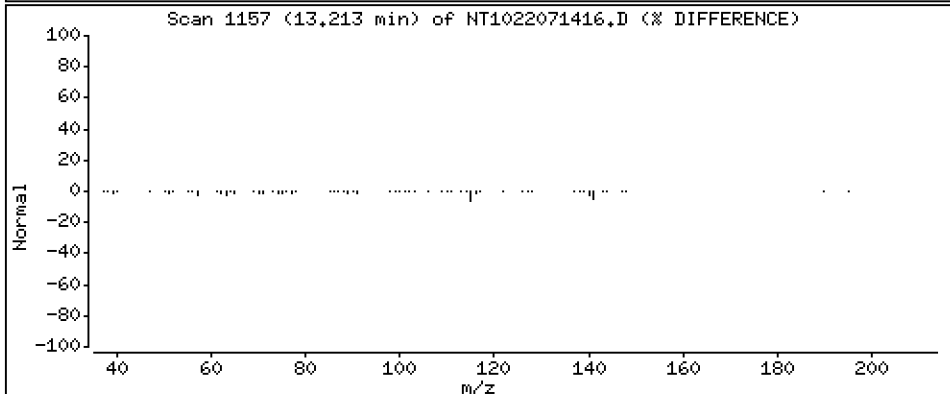
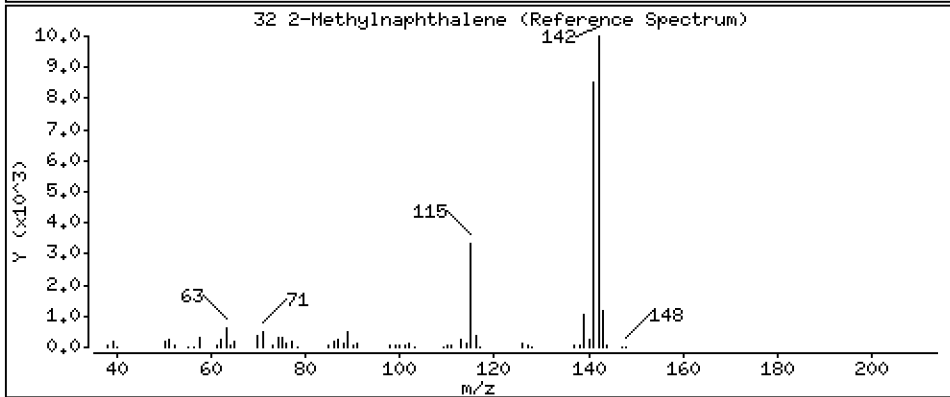
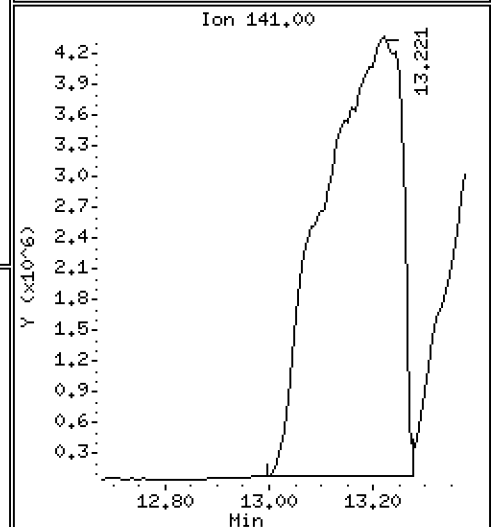
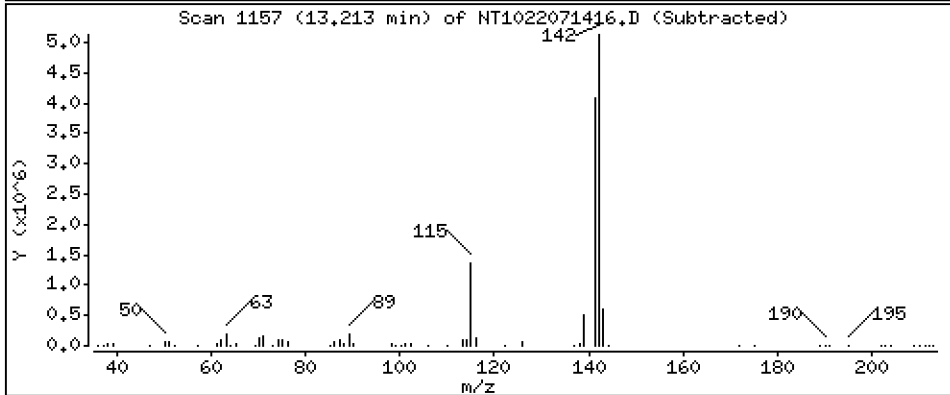
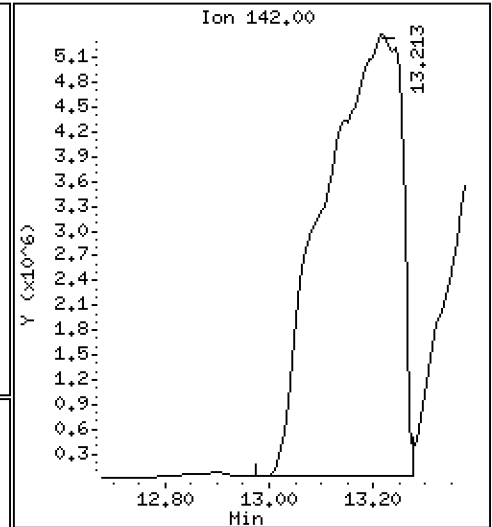
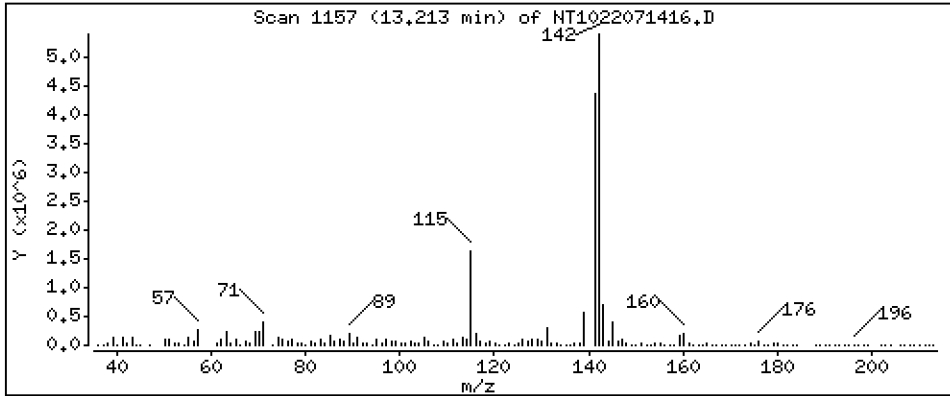
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 516,1 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

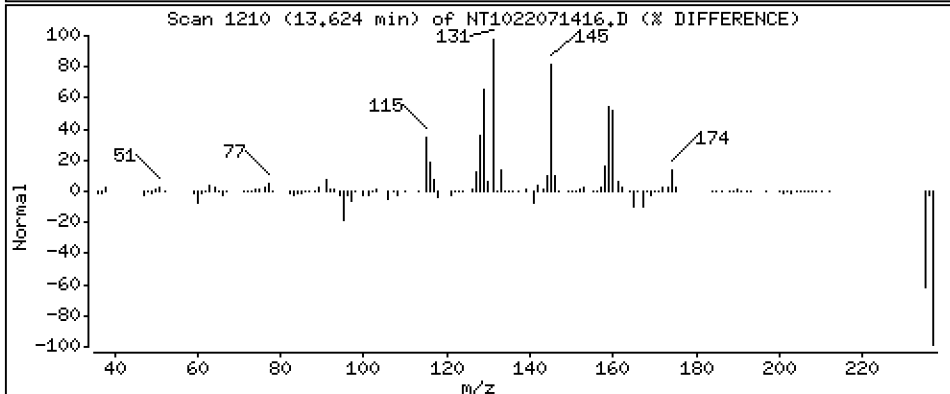
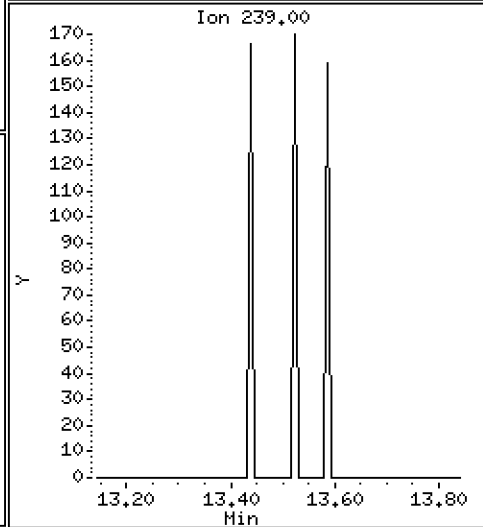
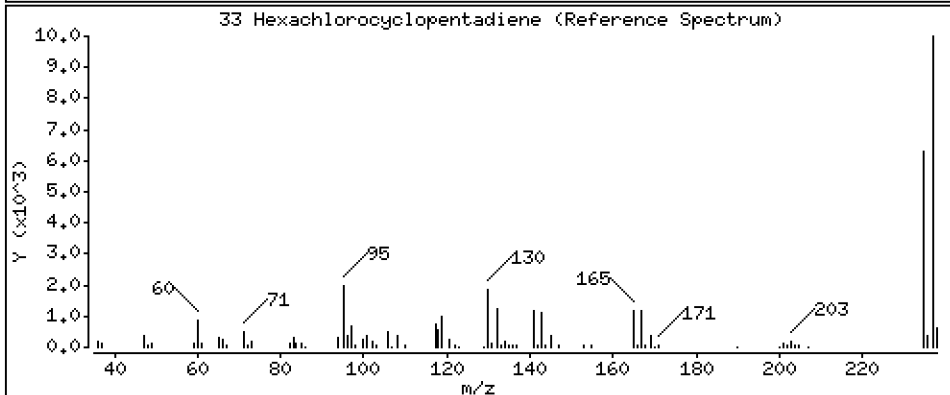
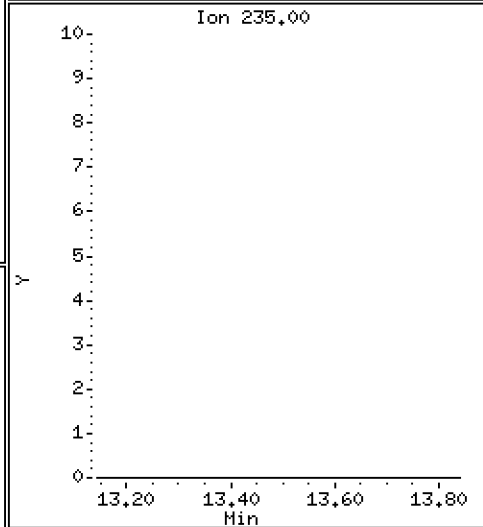
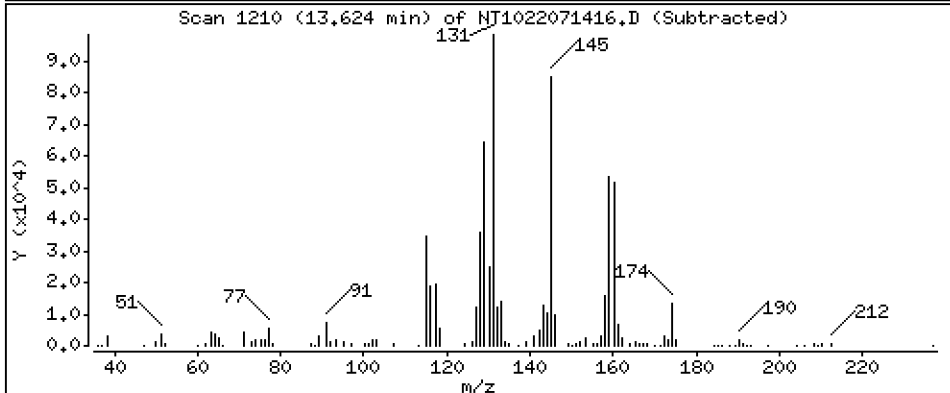
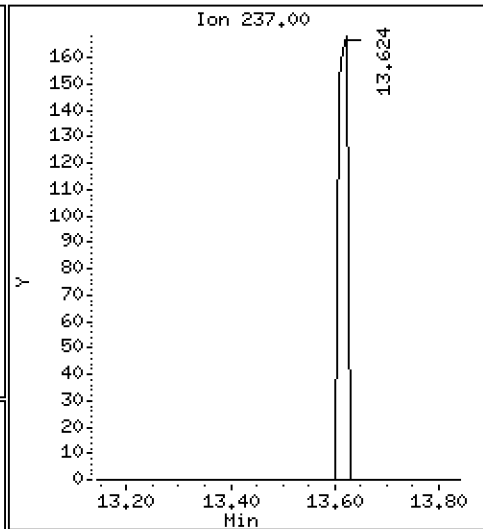
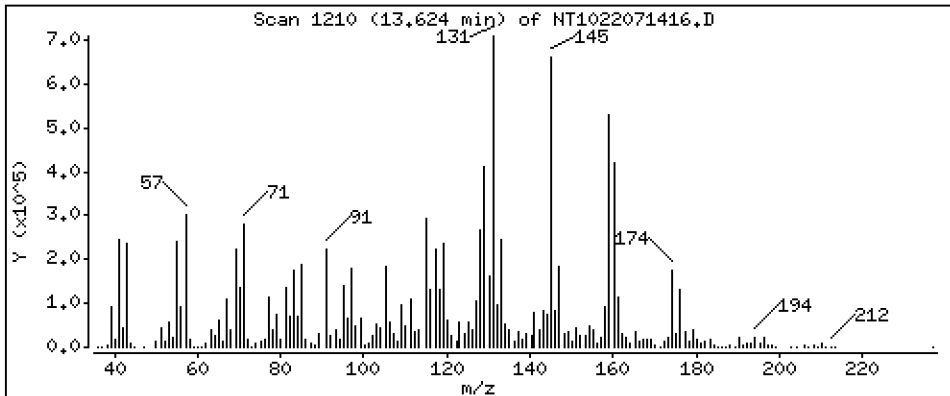
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,01864 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

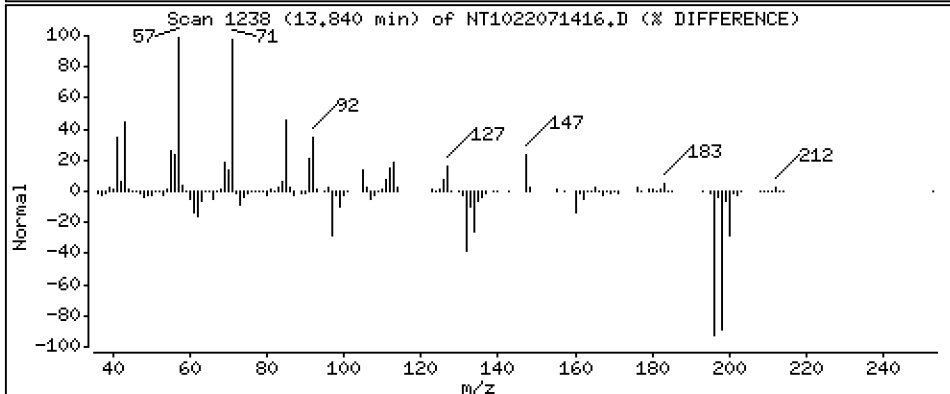
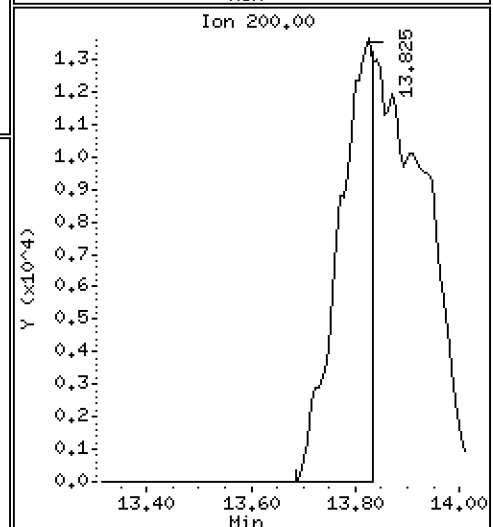
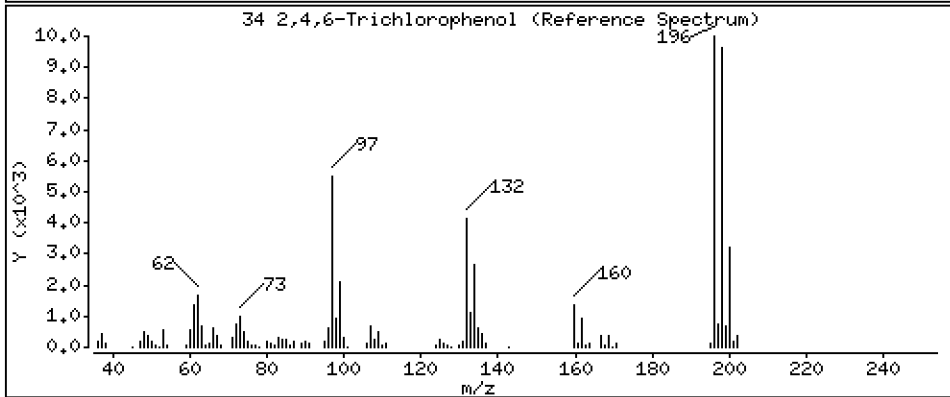
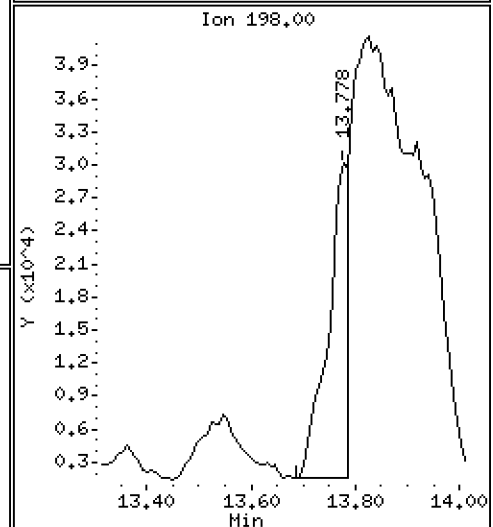
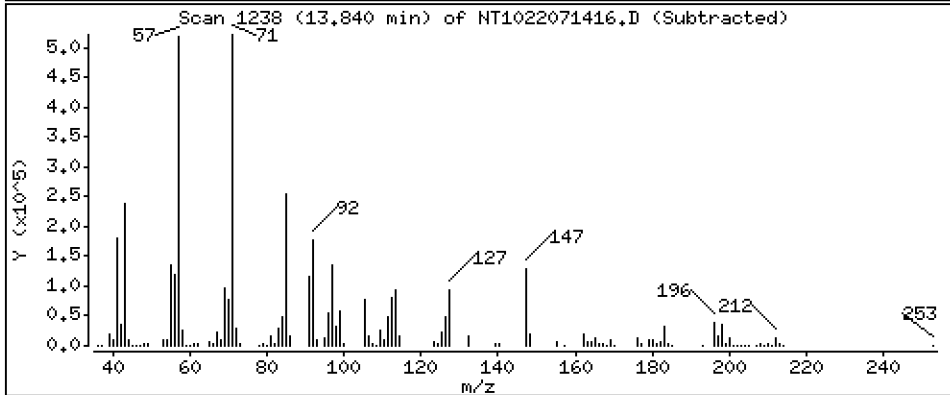
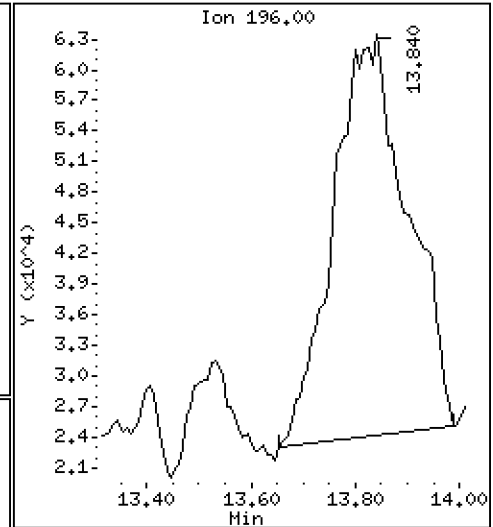
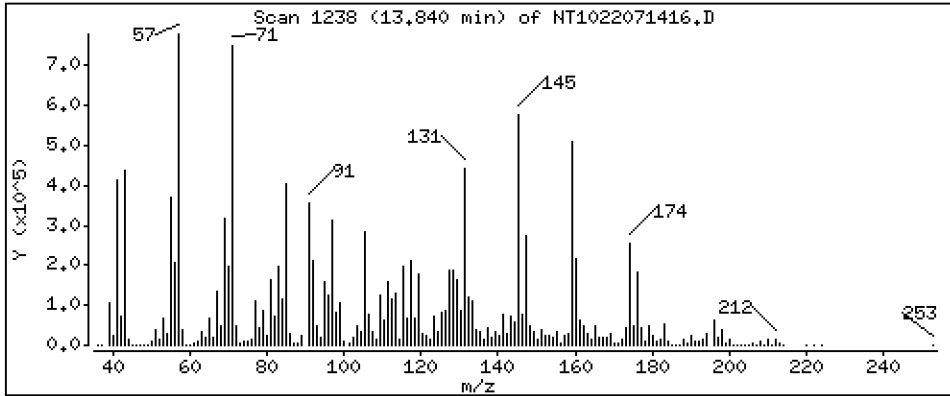
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 16,28 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

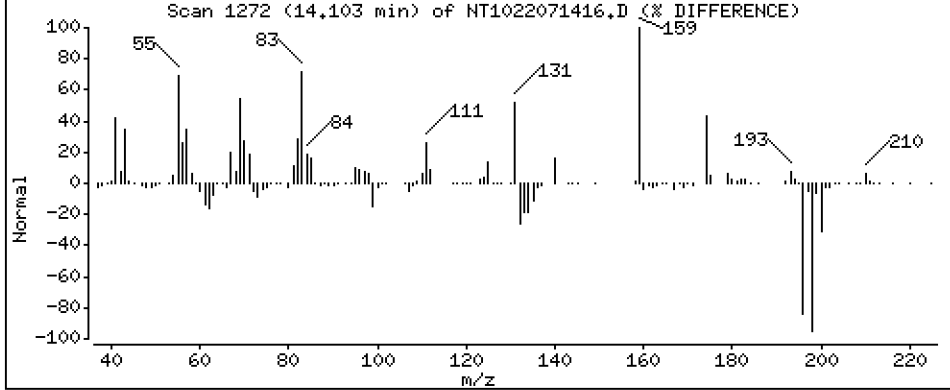
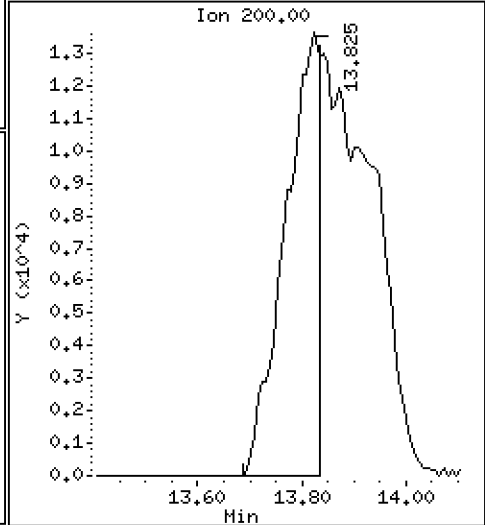
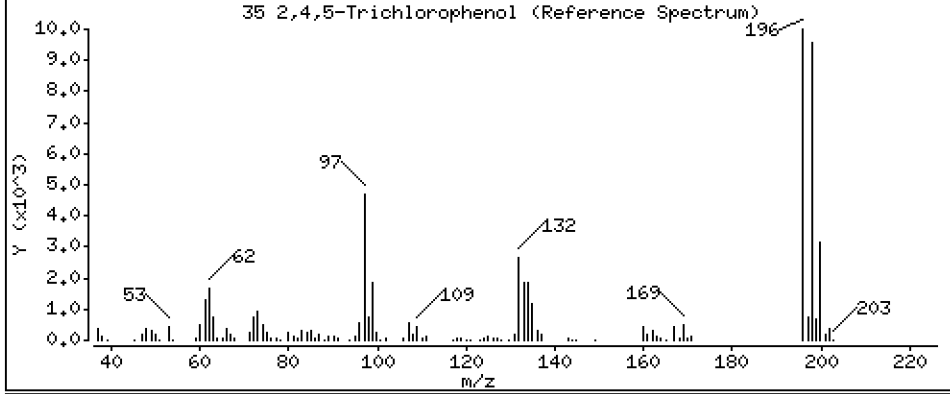
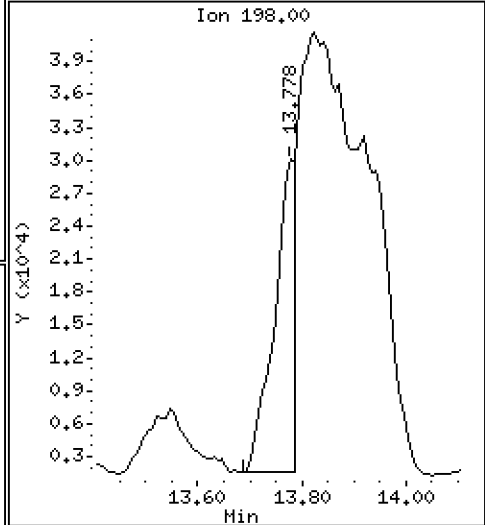
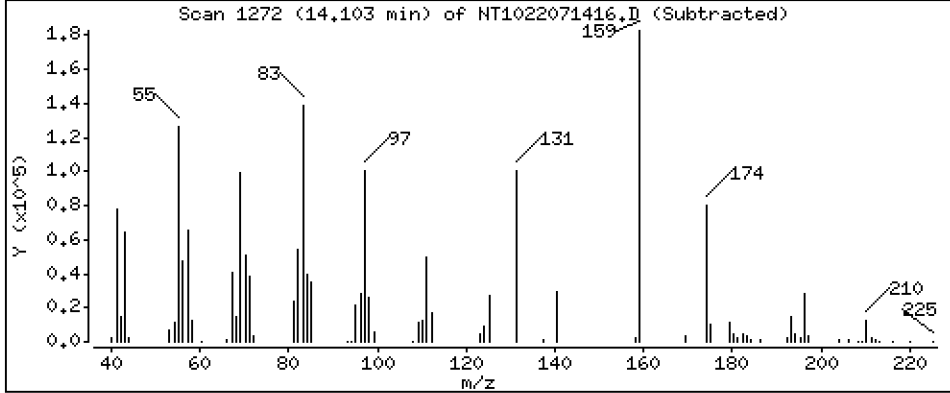
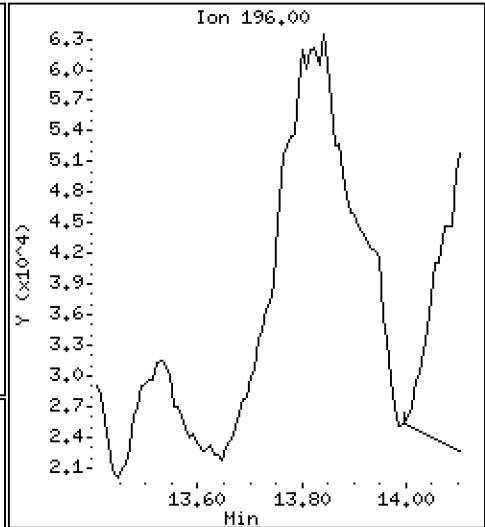
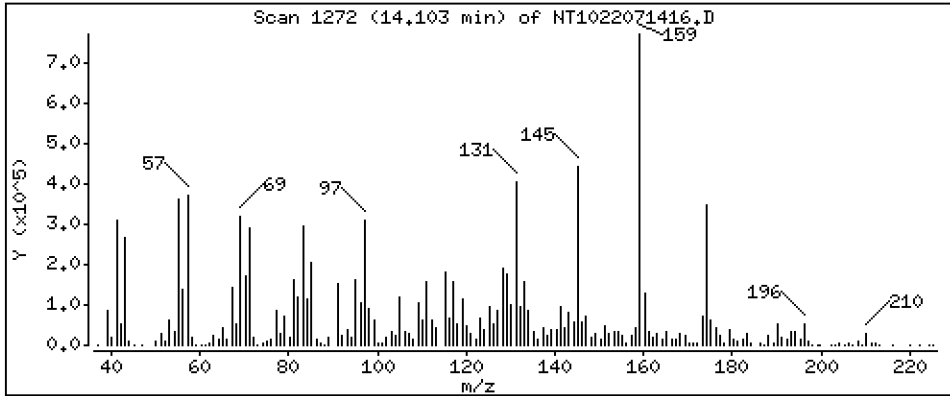
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

35 2,4,5-Trichlorophenol

Concentration: 8,101 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

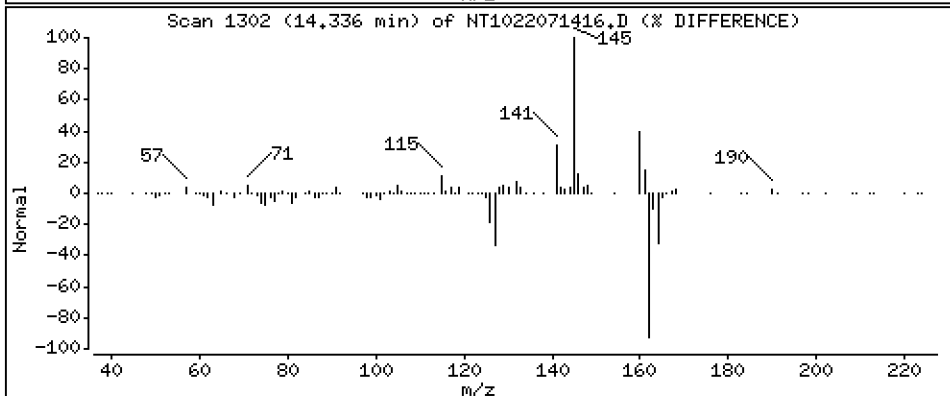
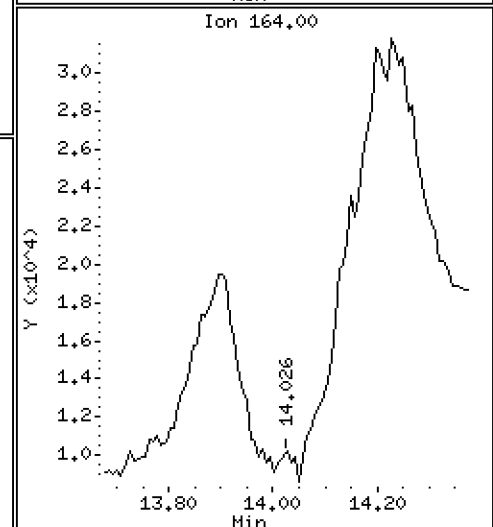
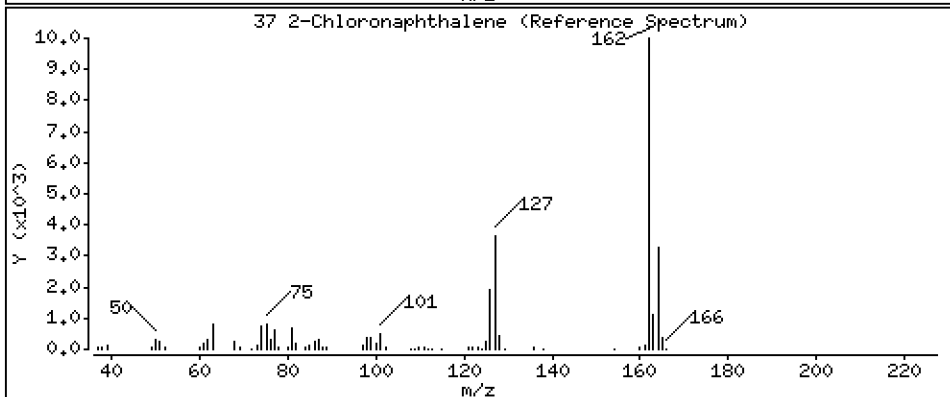
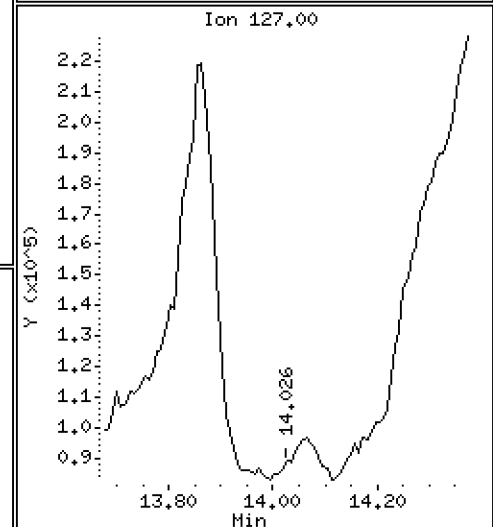
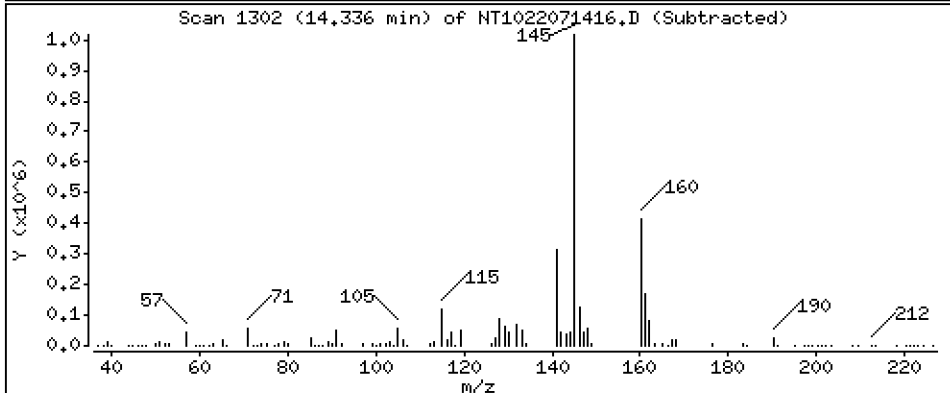
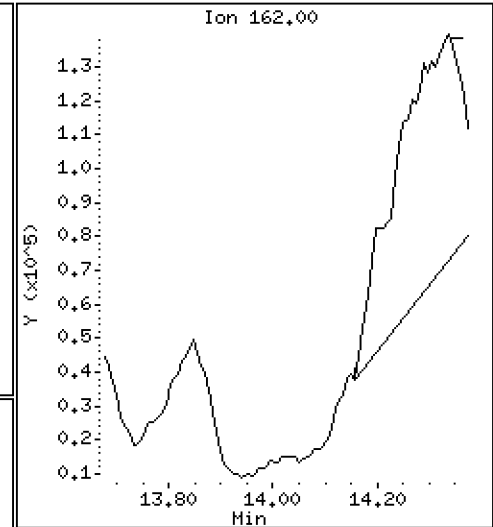
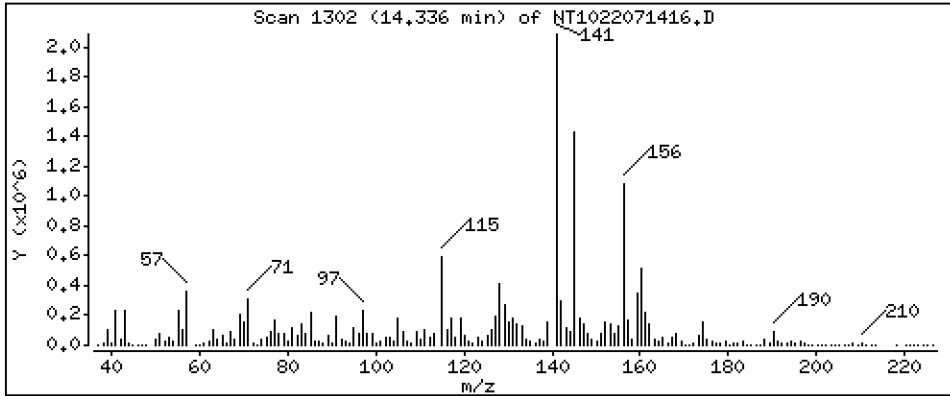
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 8,029 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

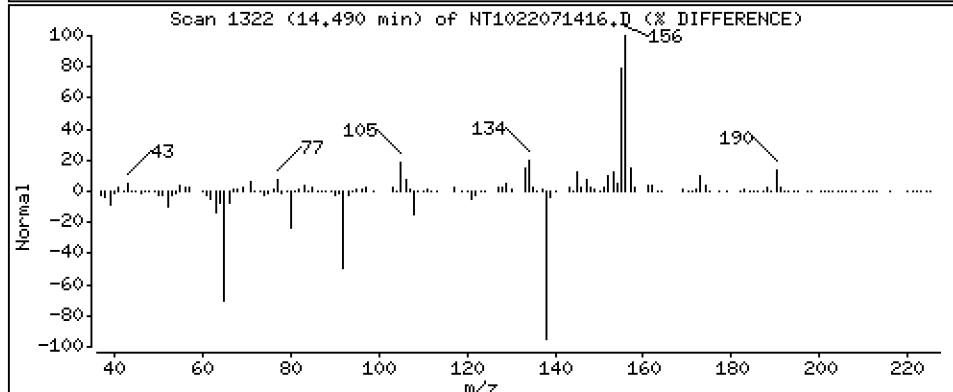
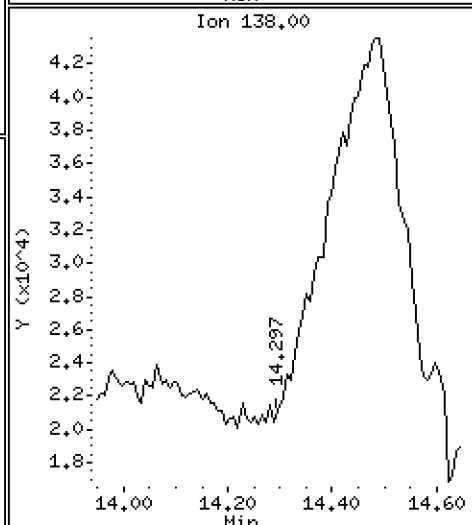
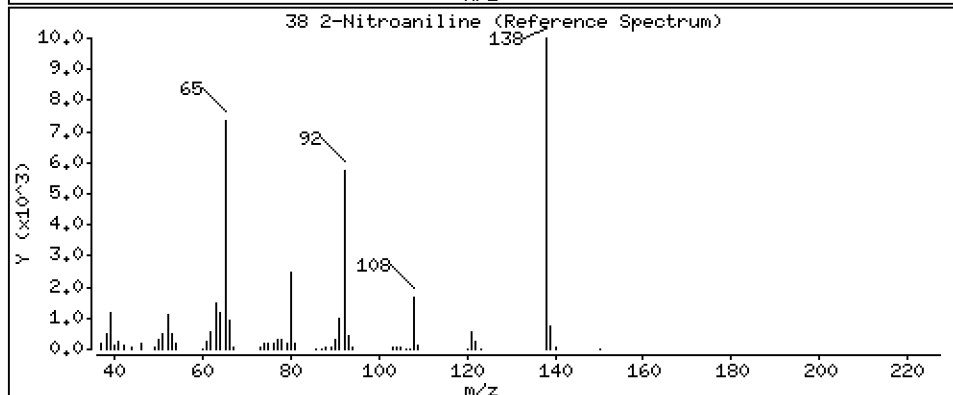
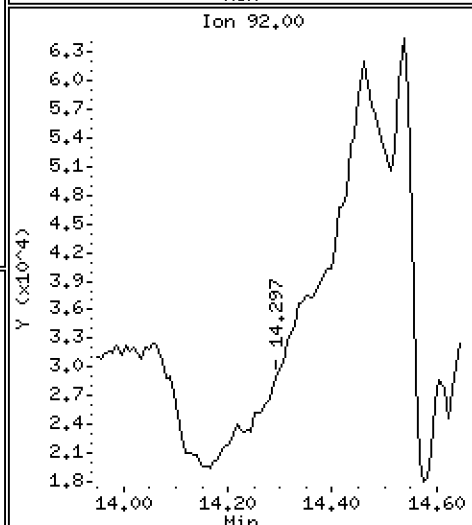
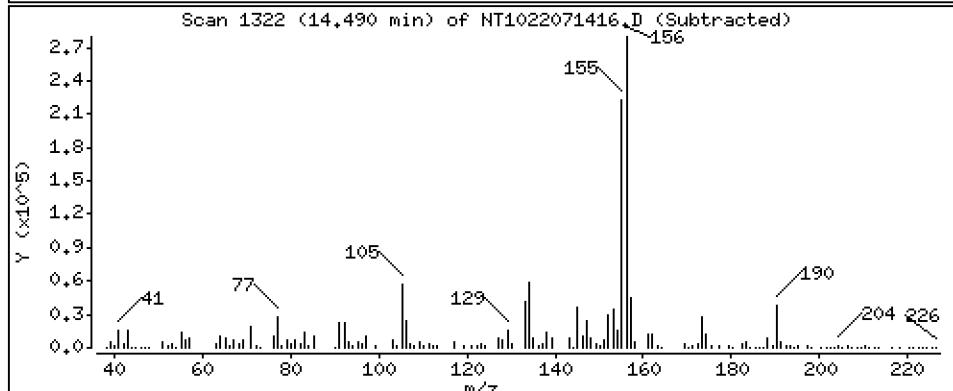
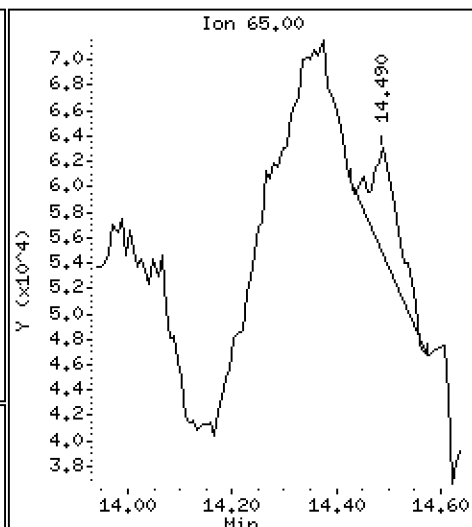
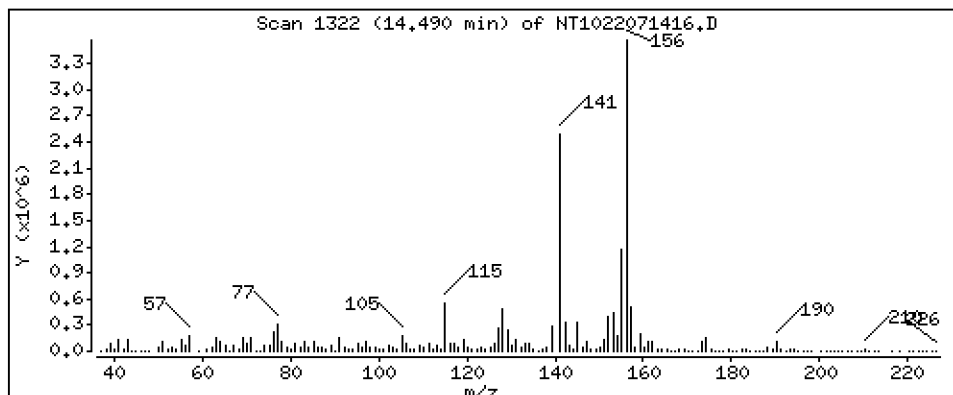
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,134 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

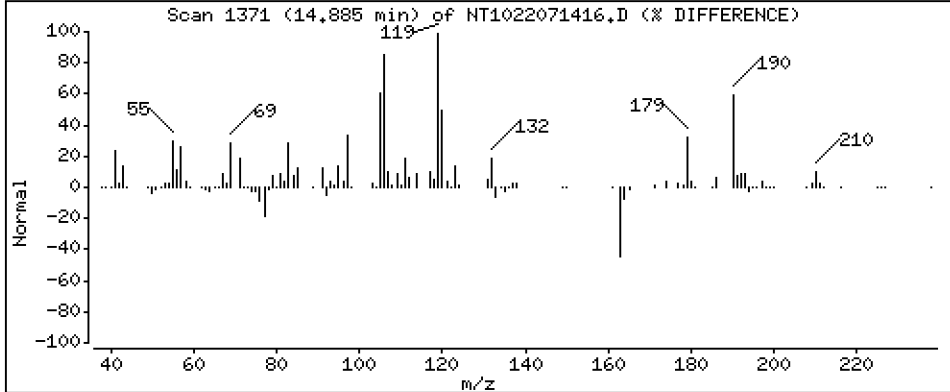
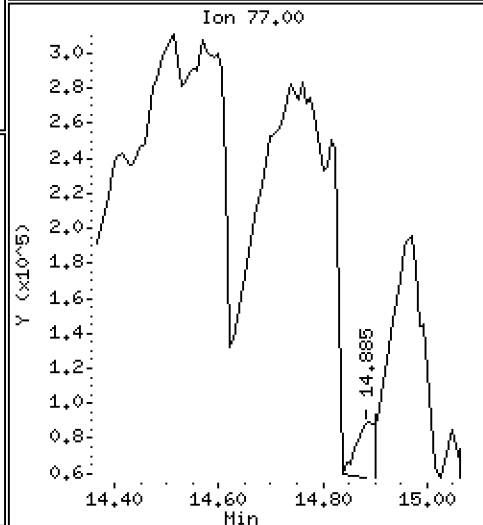
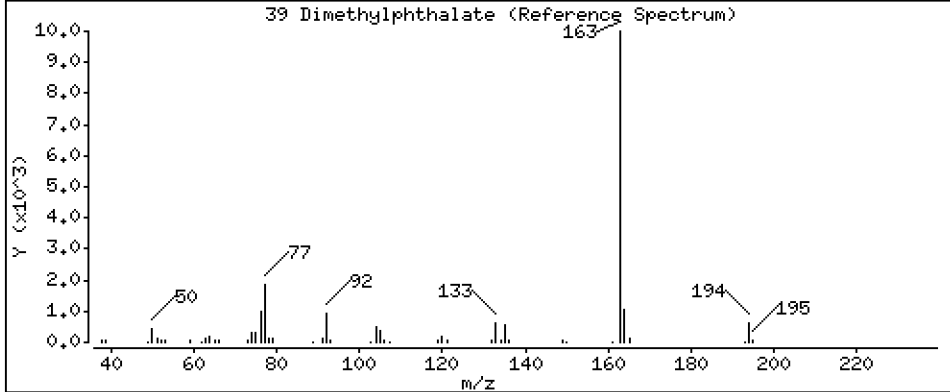
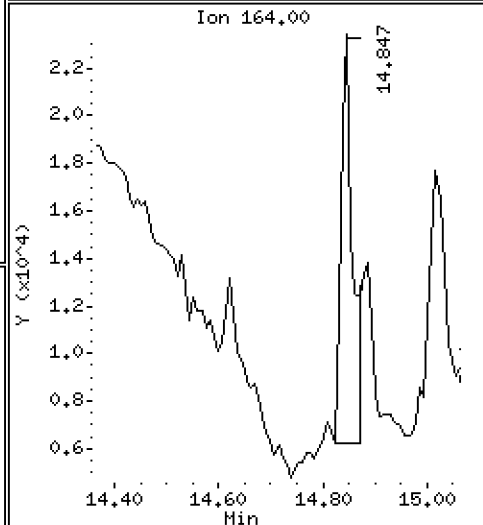
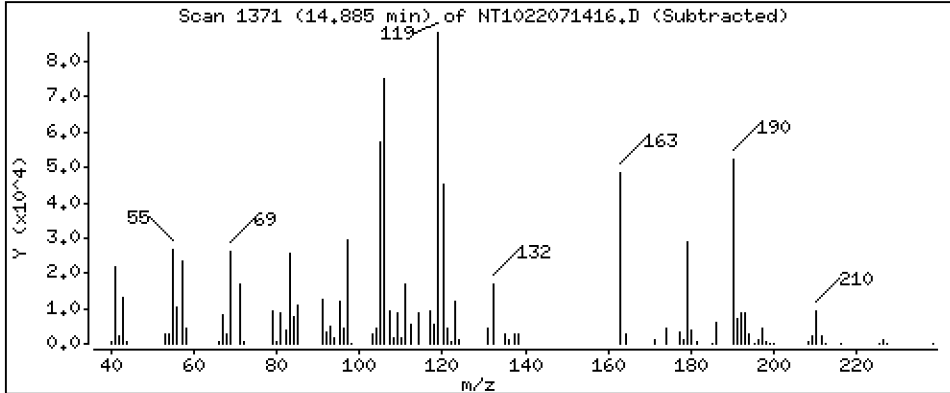
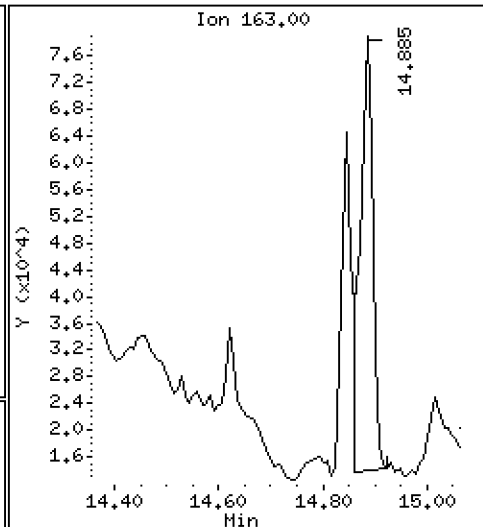
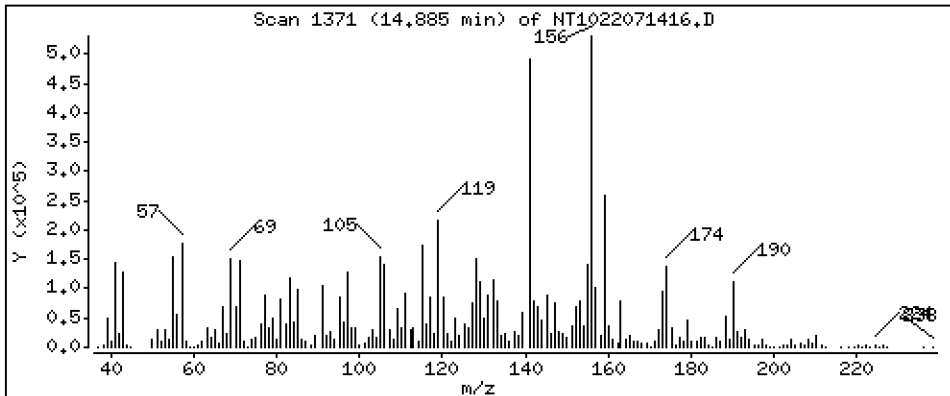
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 1.541 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

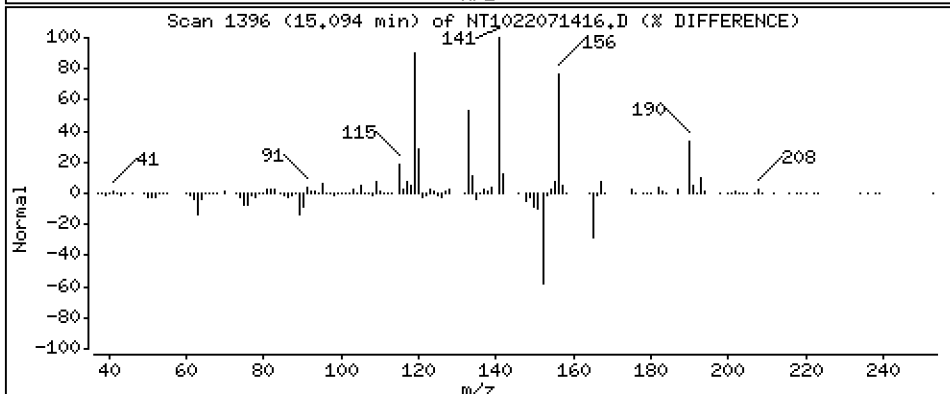
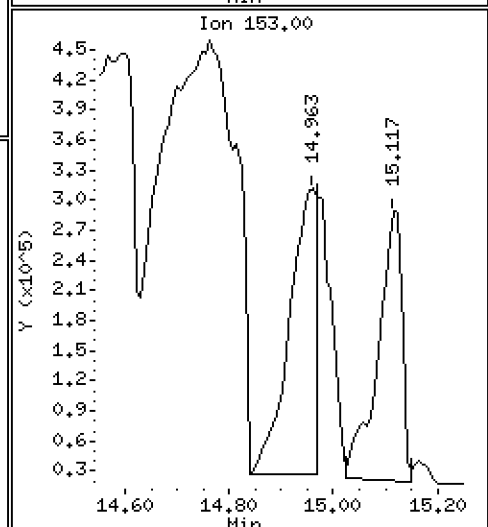
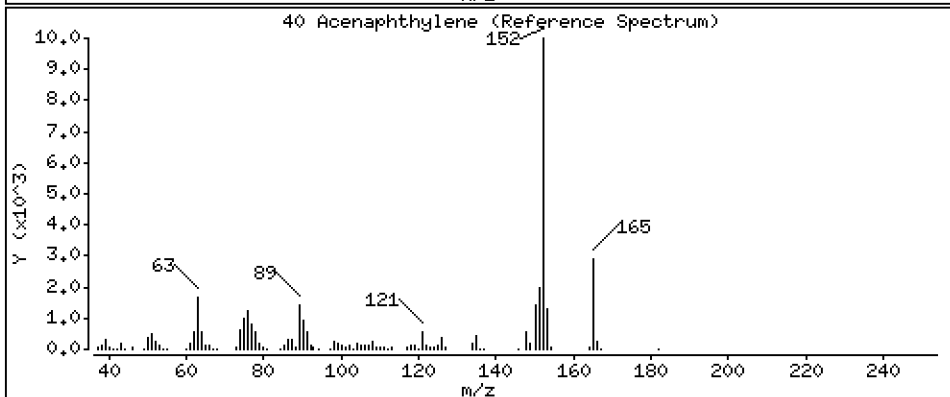
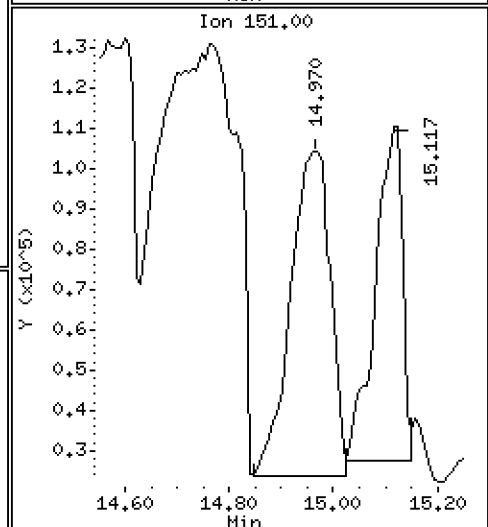
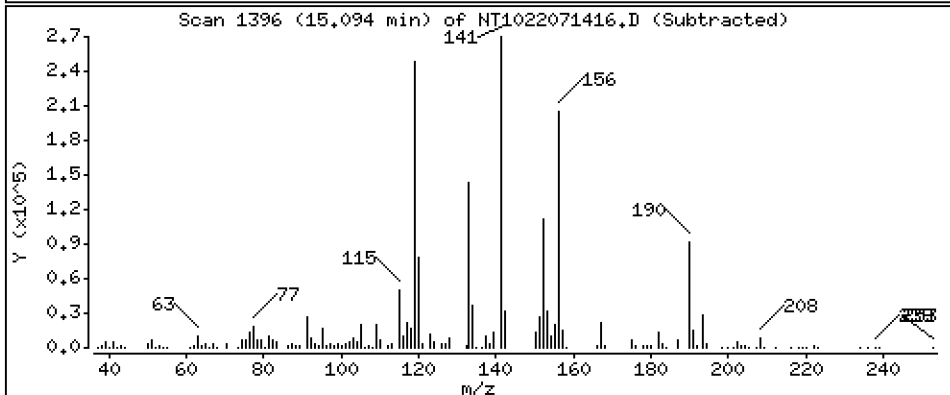
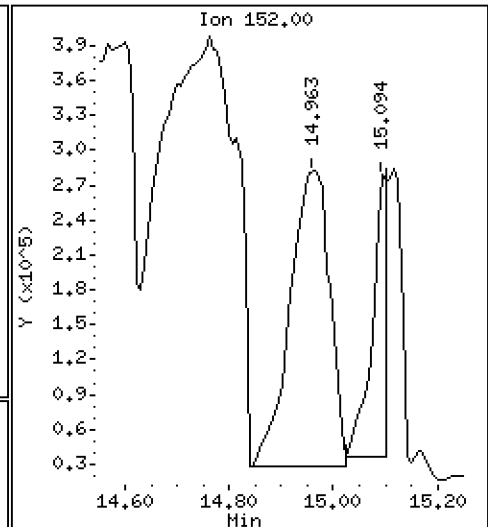
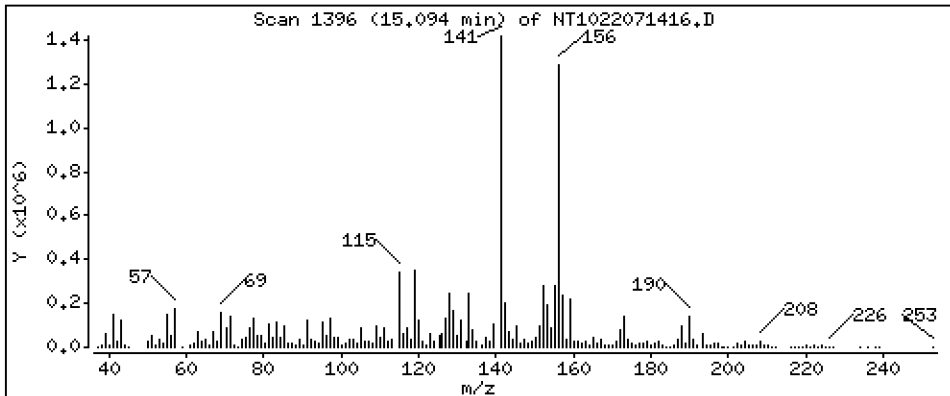
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,042 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

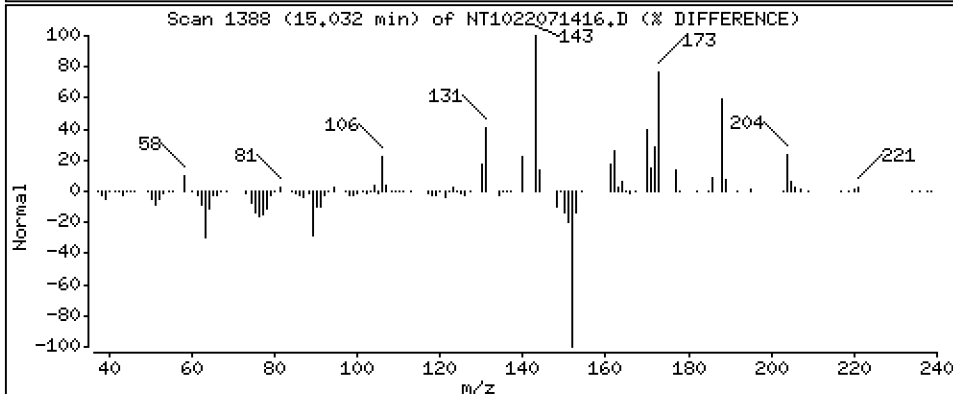
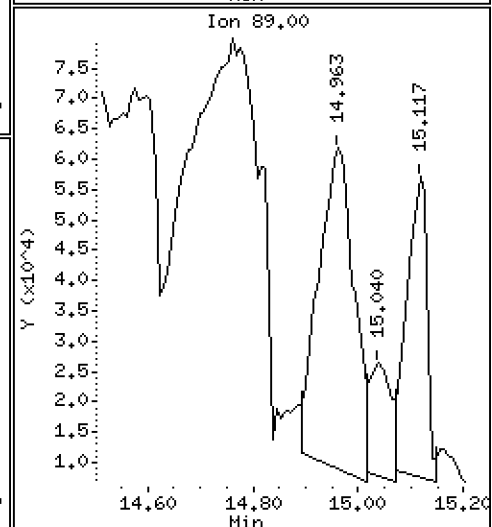
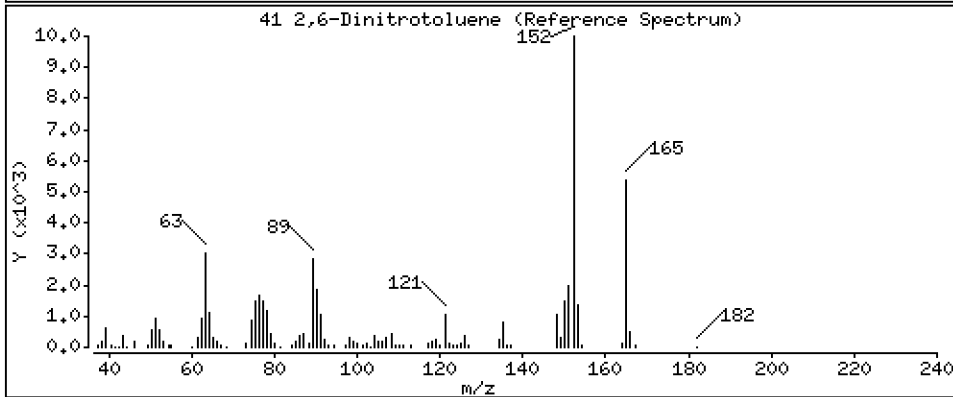
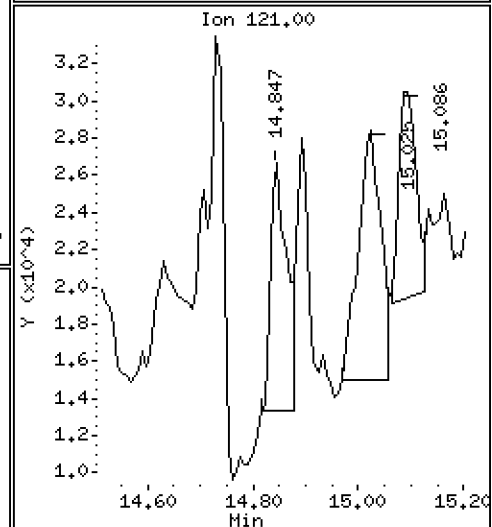
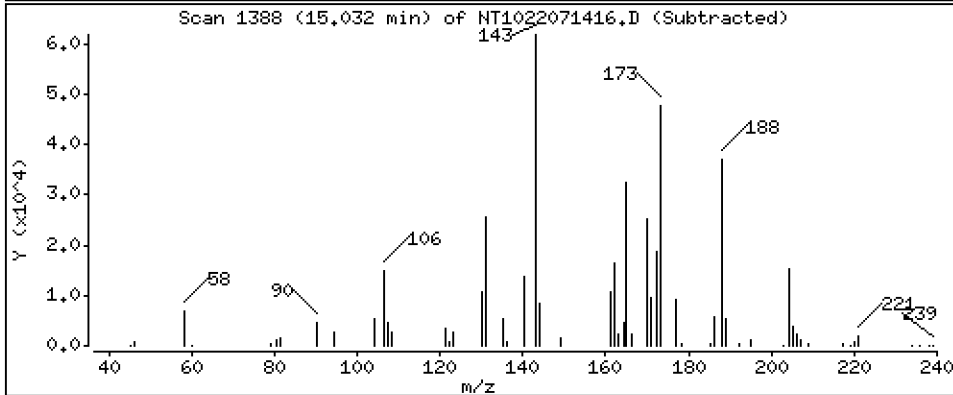
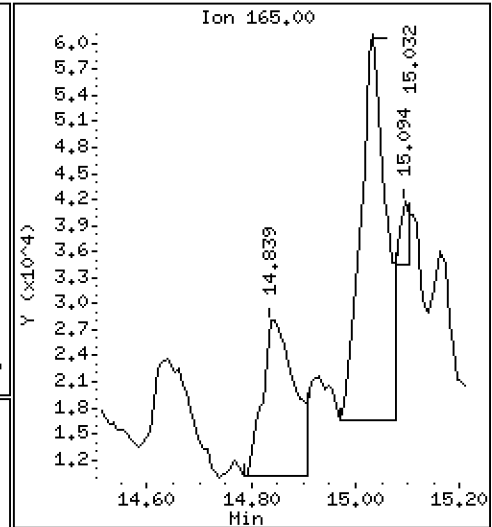
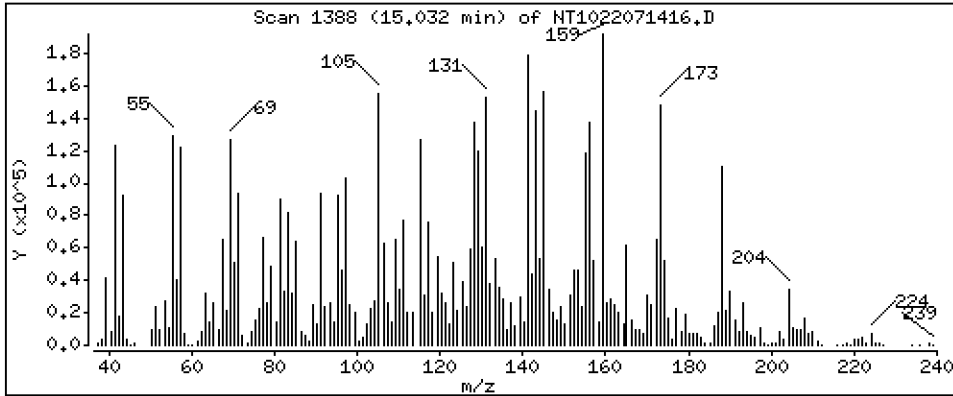
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 9.074 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

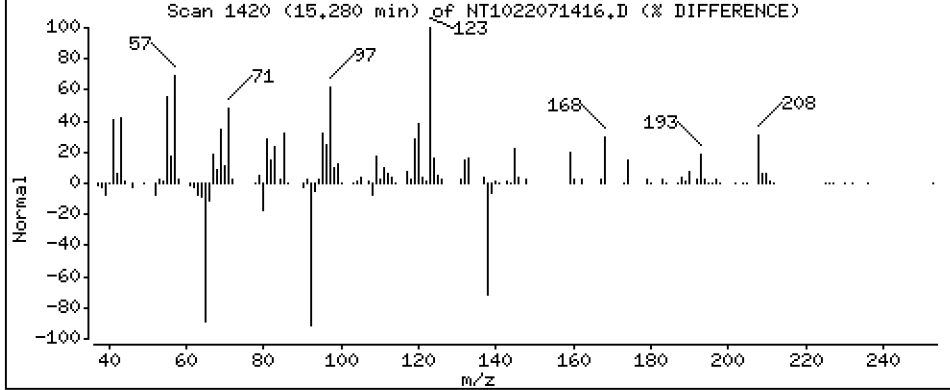
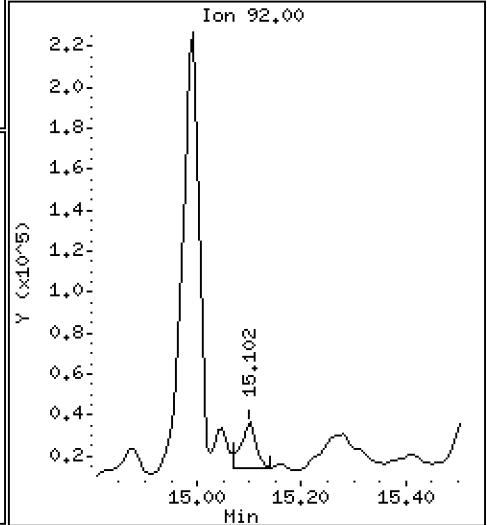
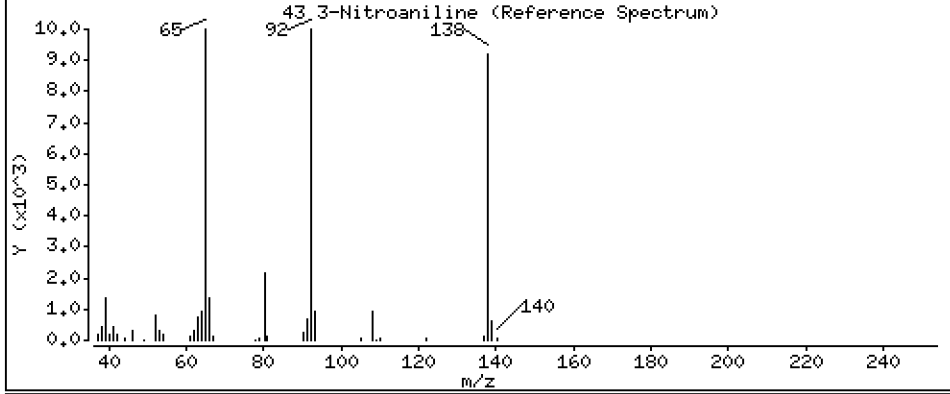
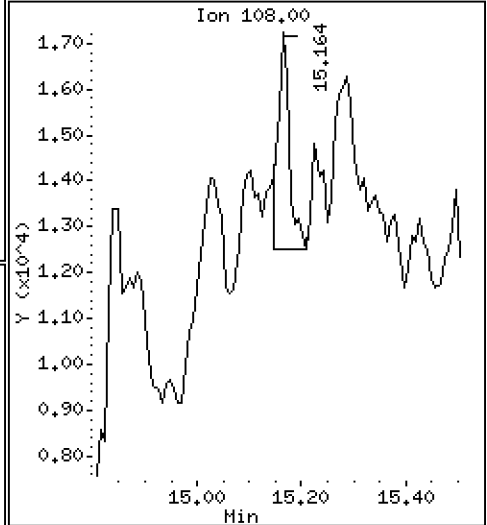
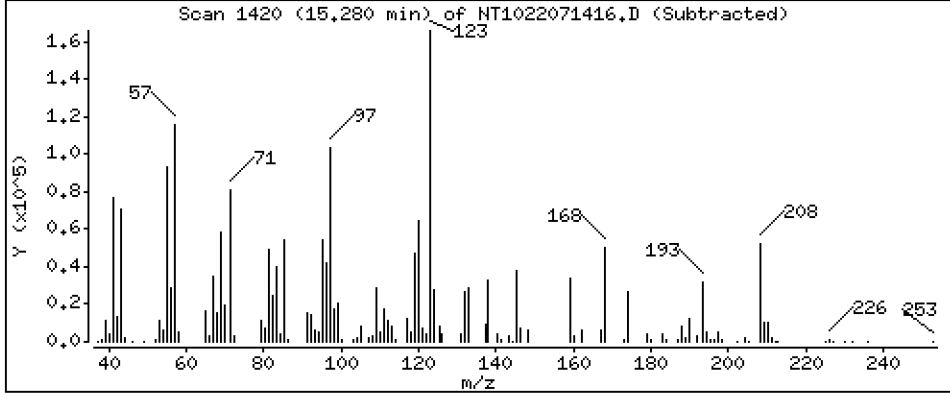
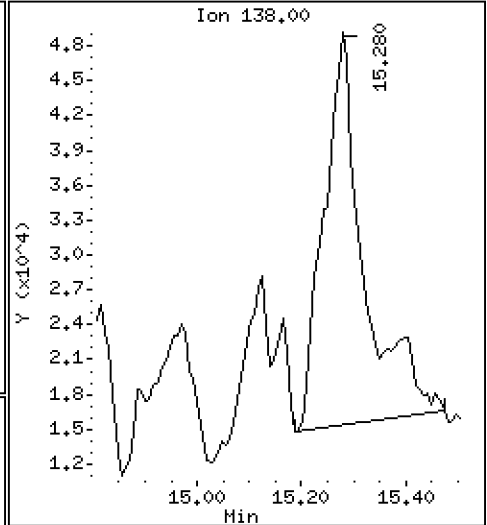
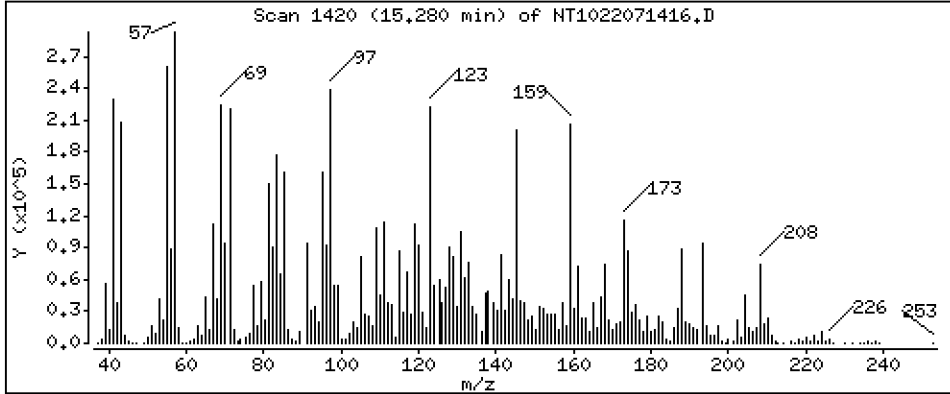
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 8,814 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

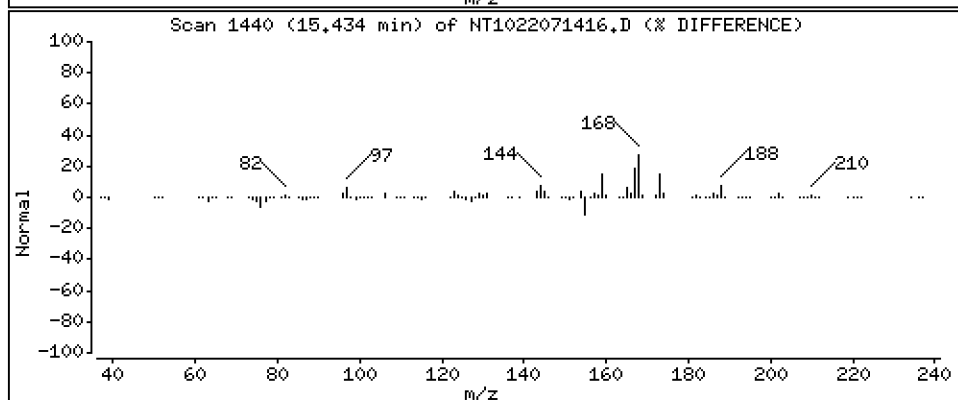
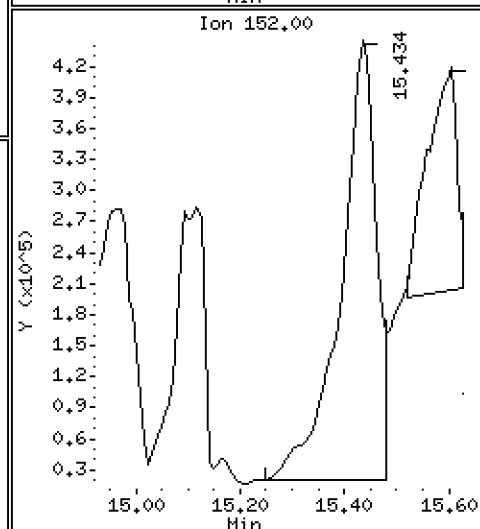
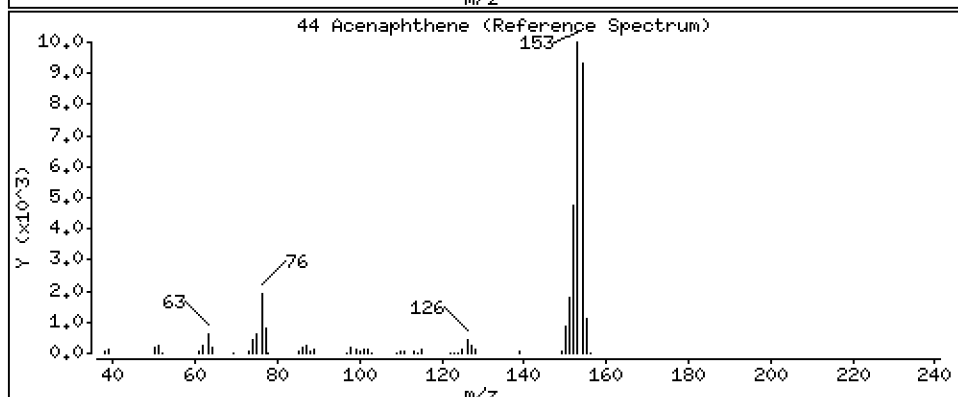
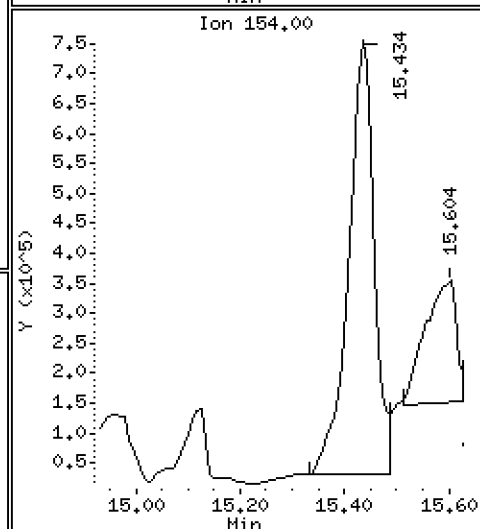
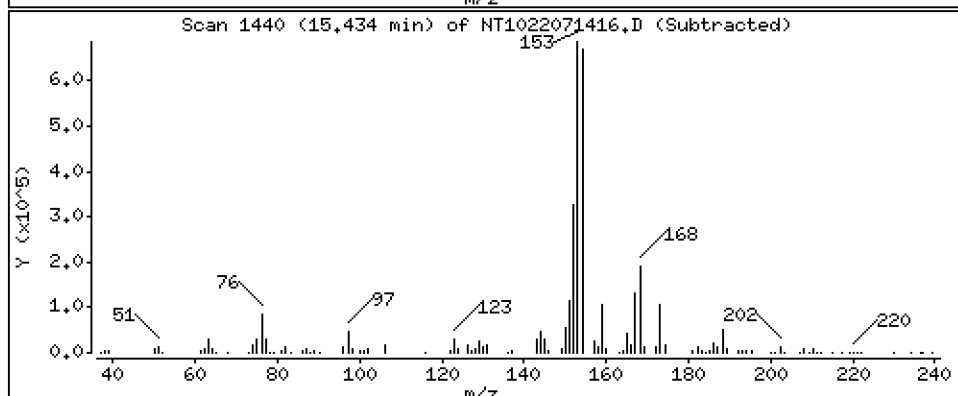
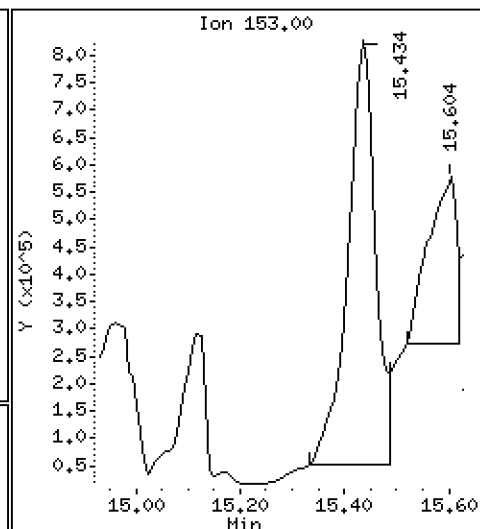
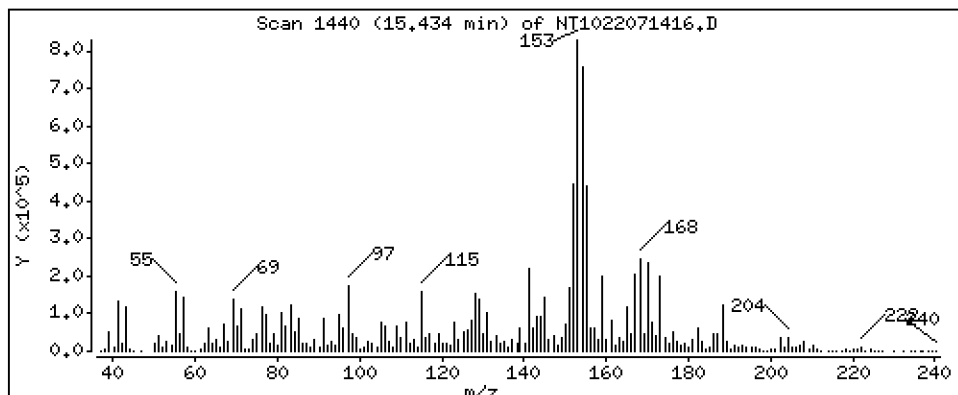
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 46,49 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

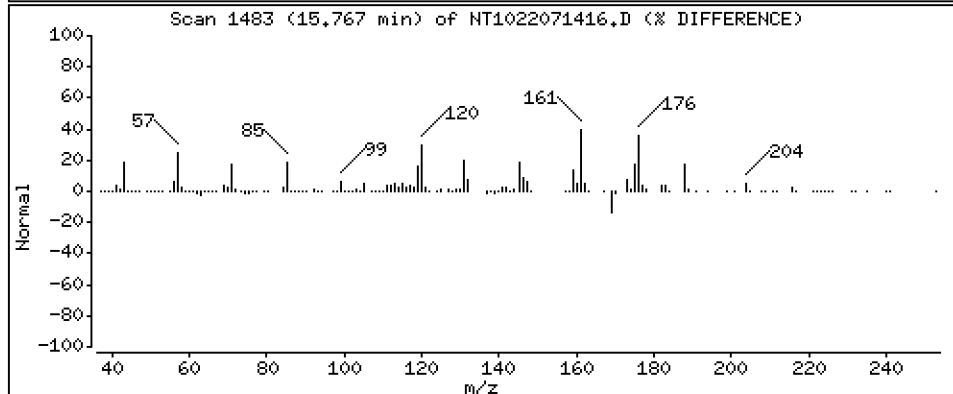
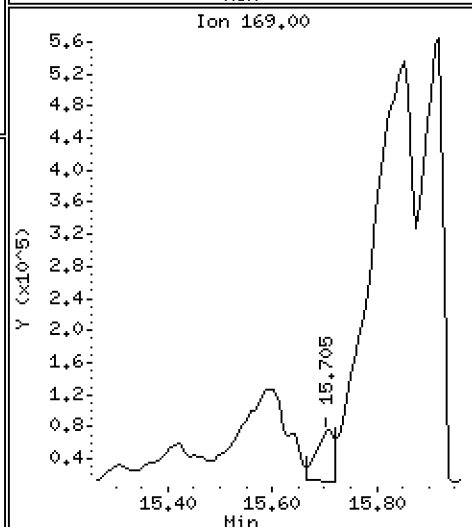
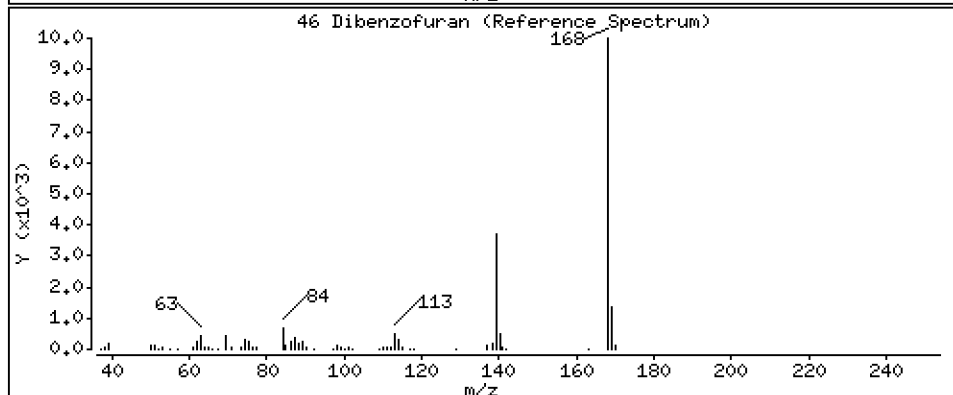
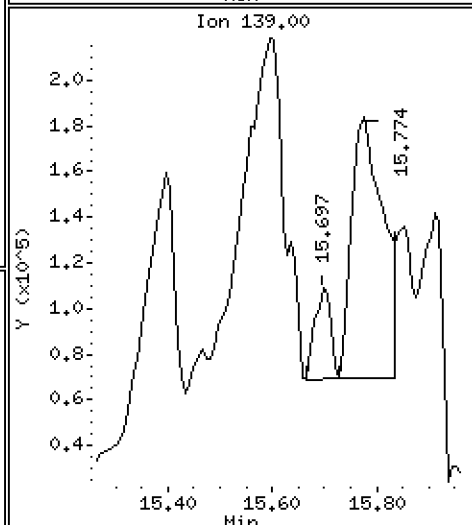
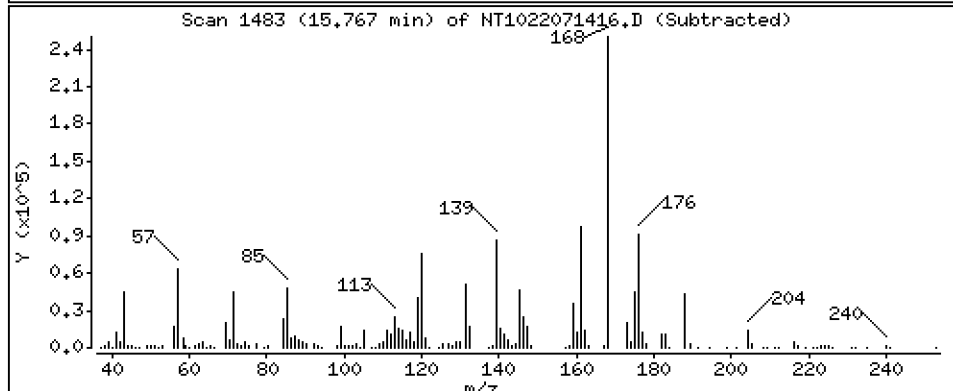
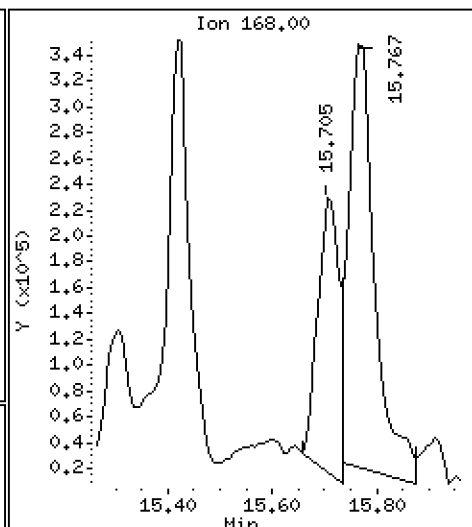
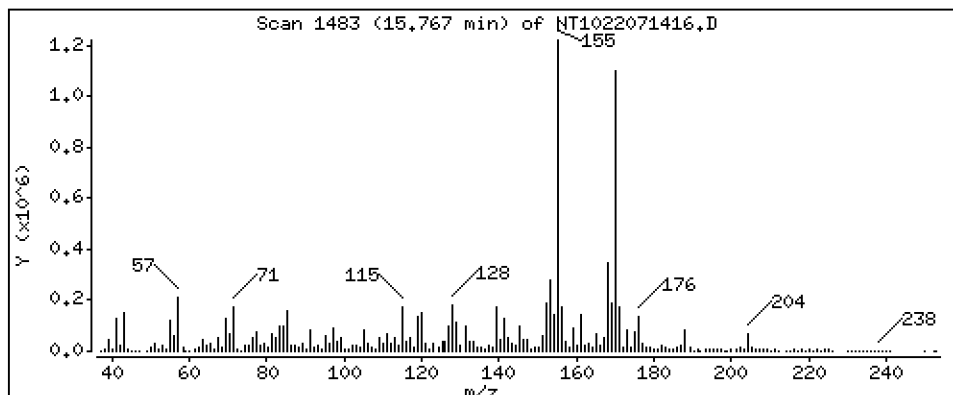
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 11,78 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

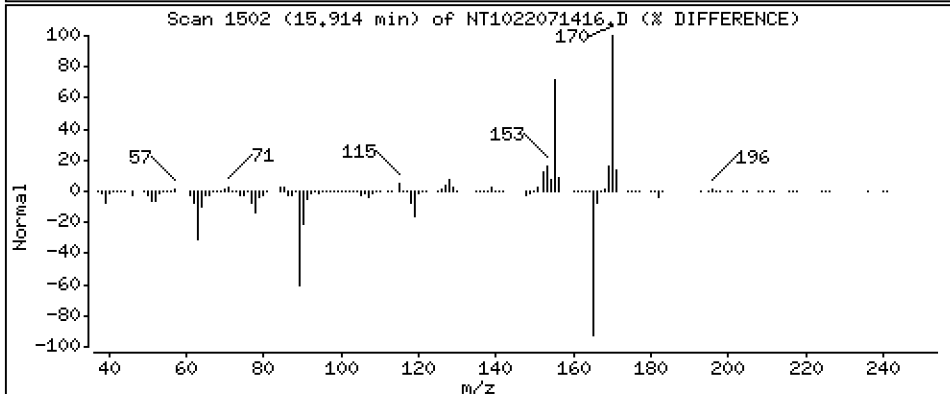
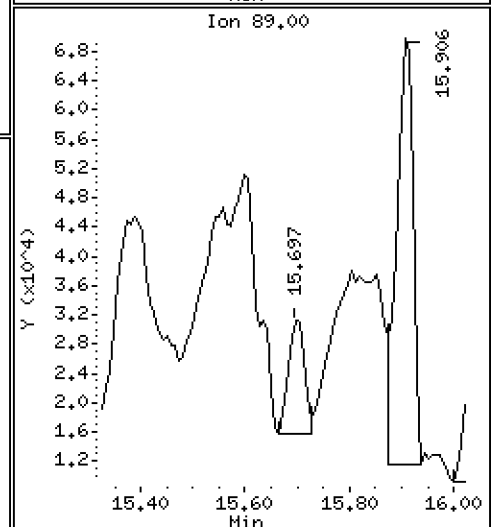
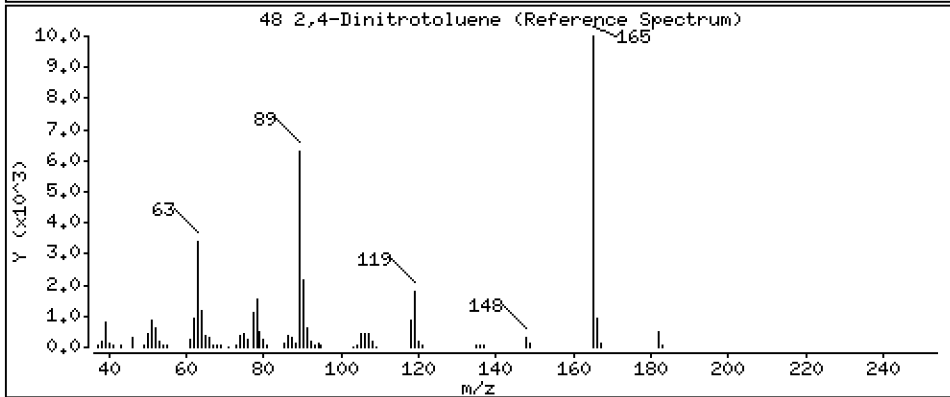
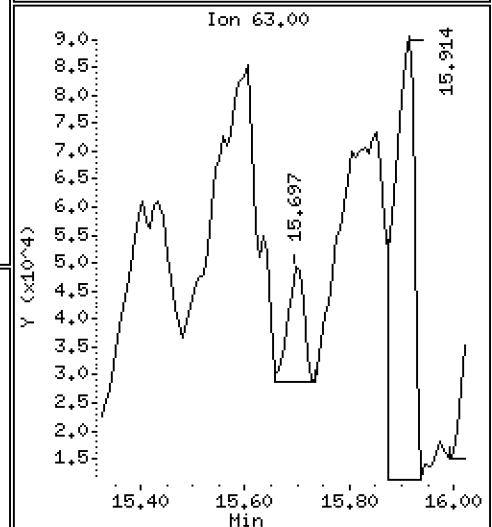
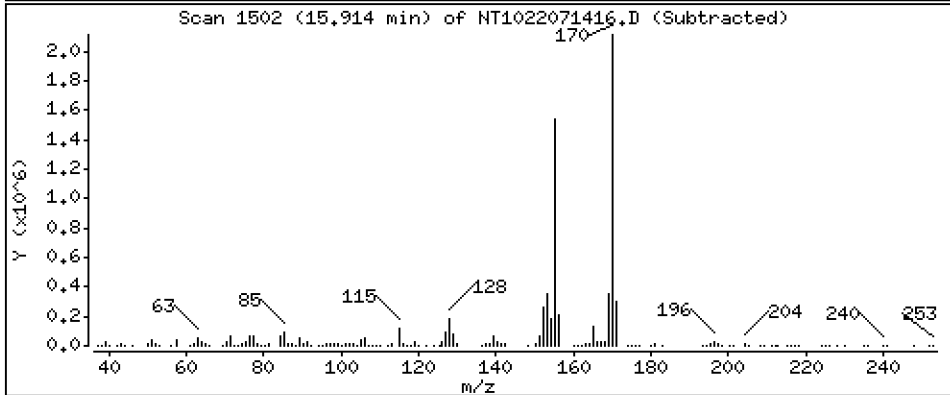
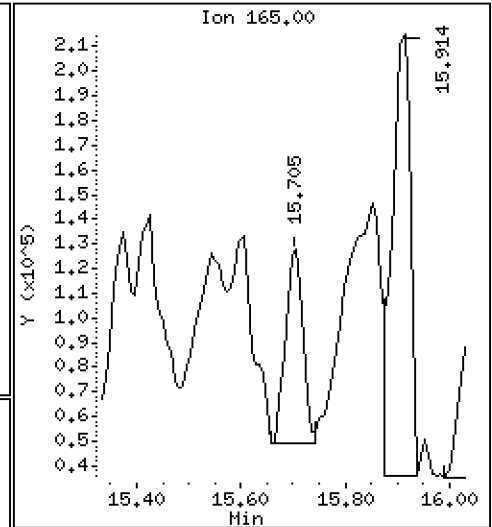
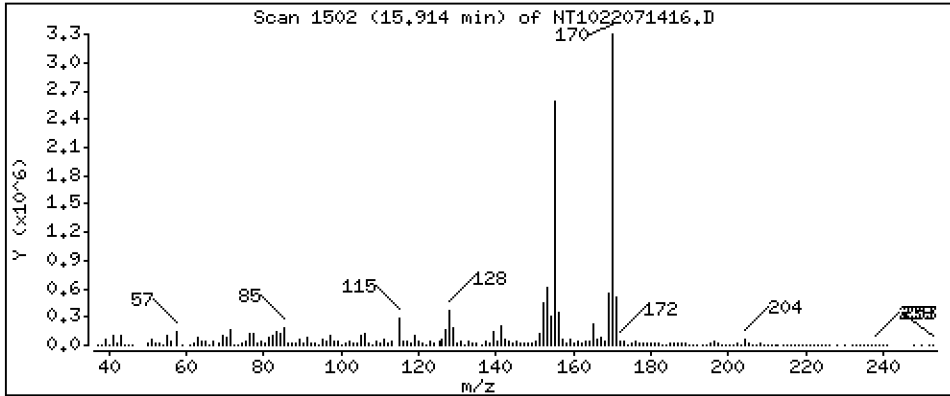
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 18,84 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

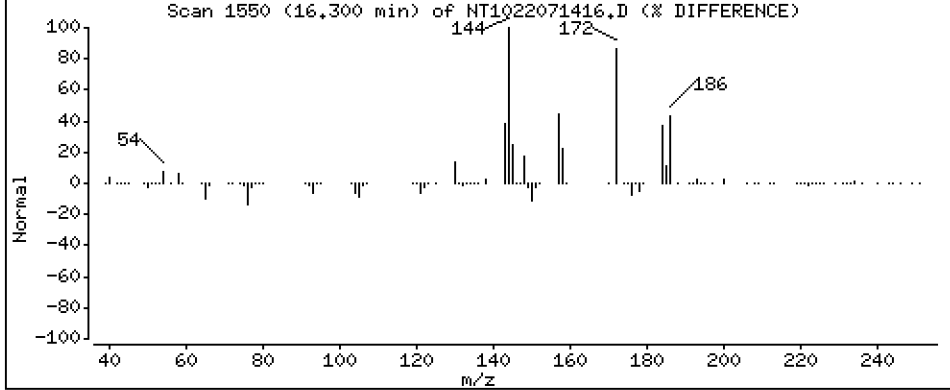
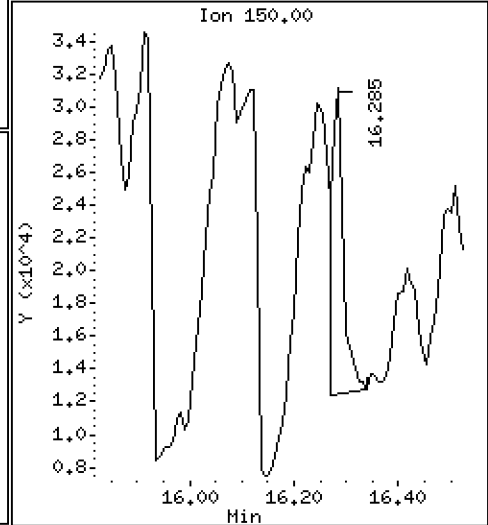
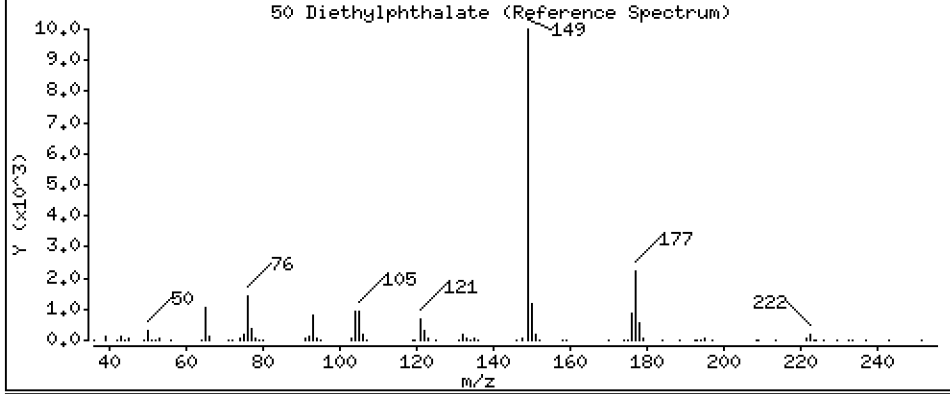
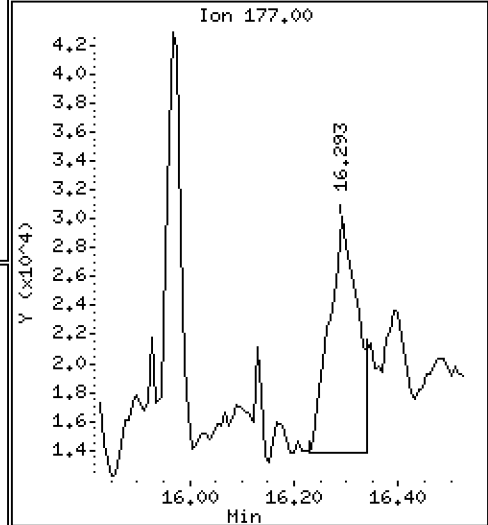
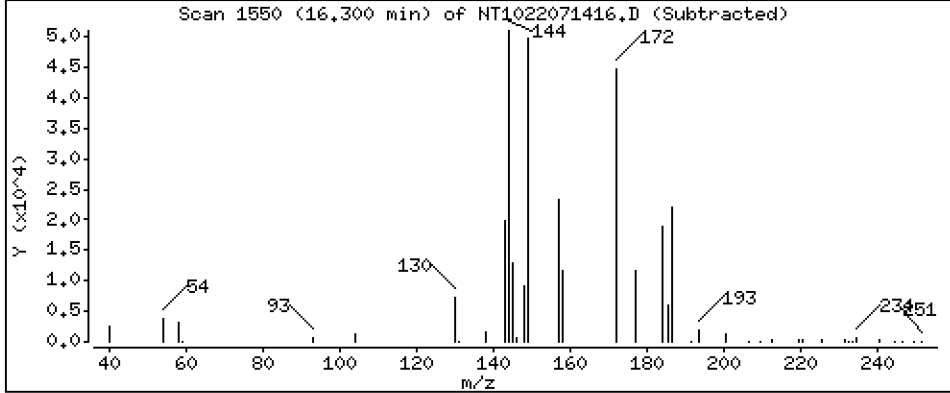
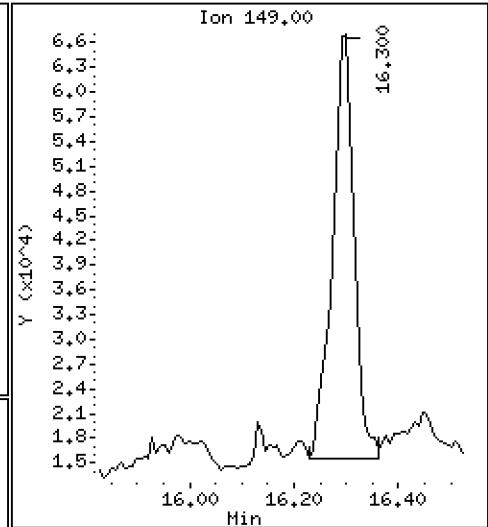
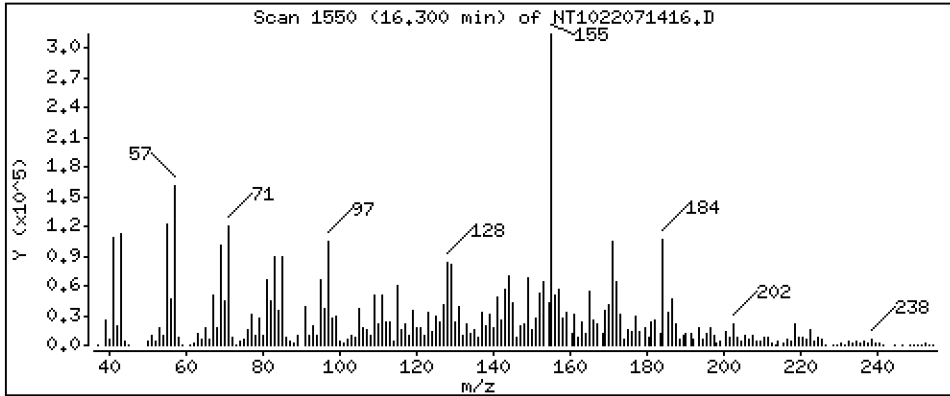
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 2,083 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

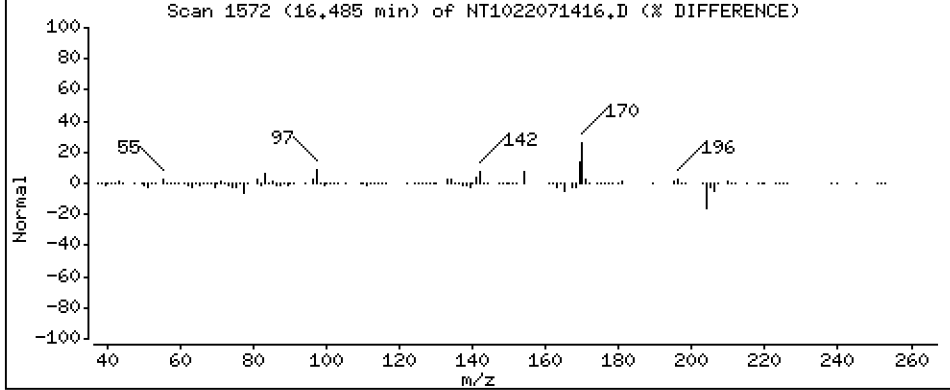
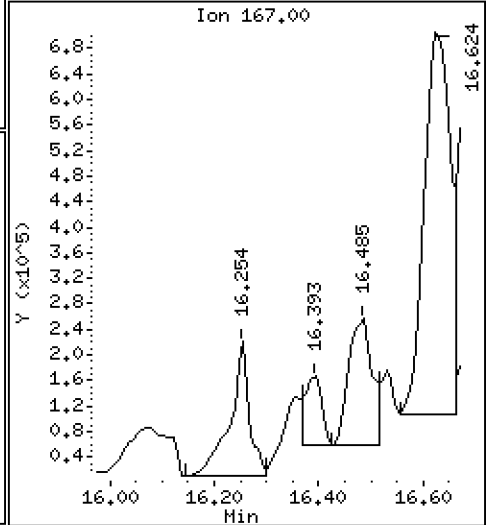
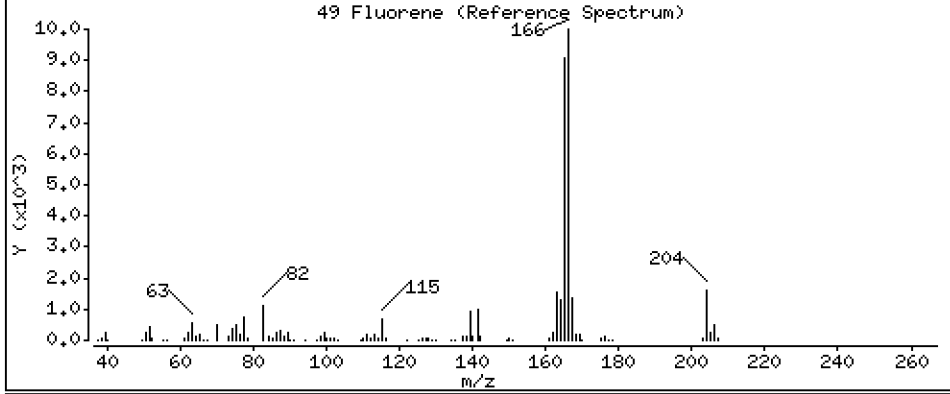
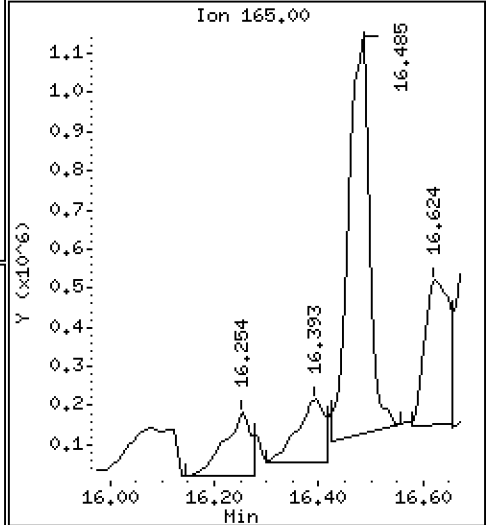
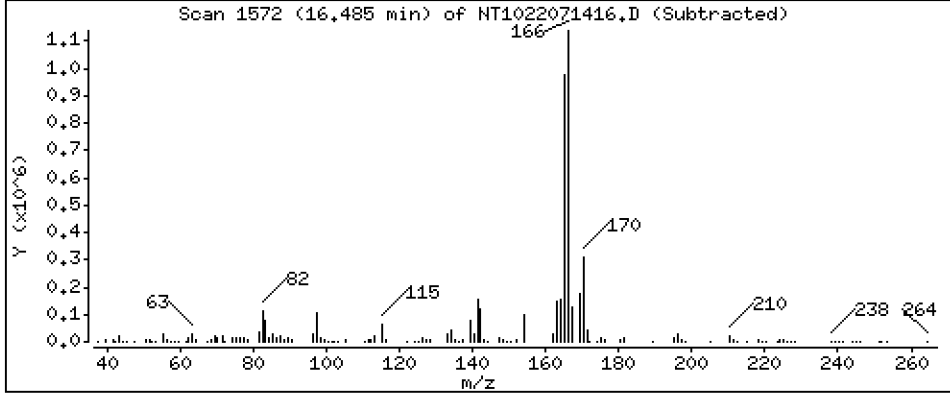
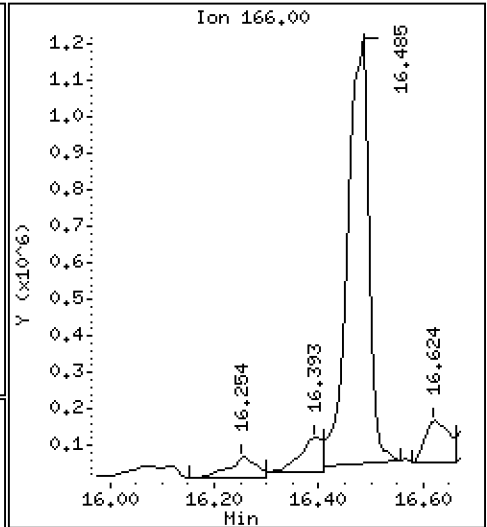
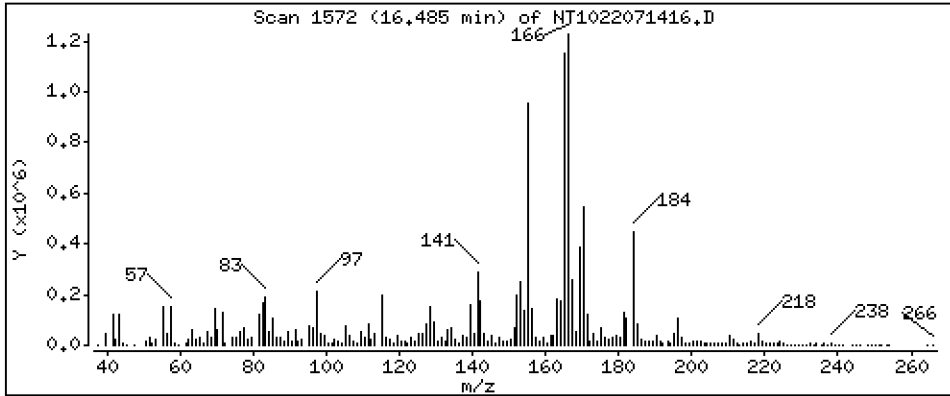
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 27,95 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

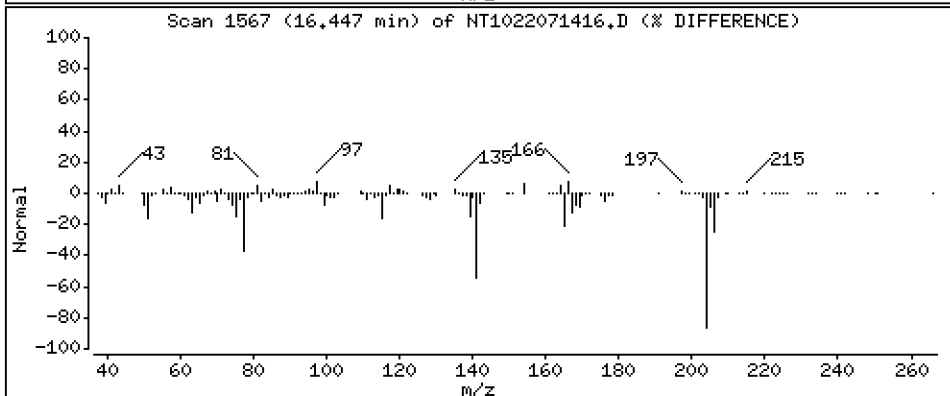
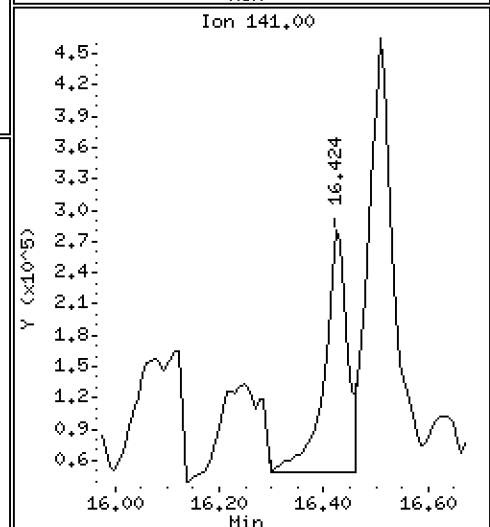
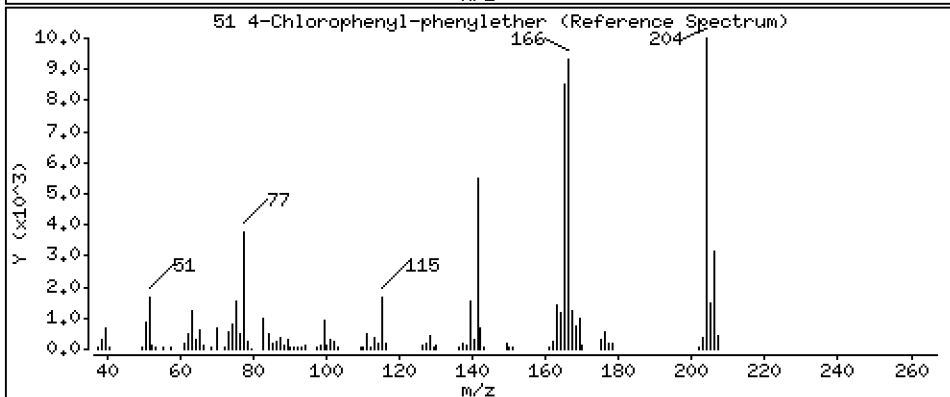
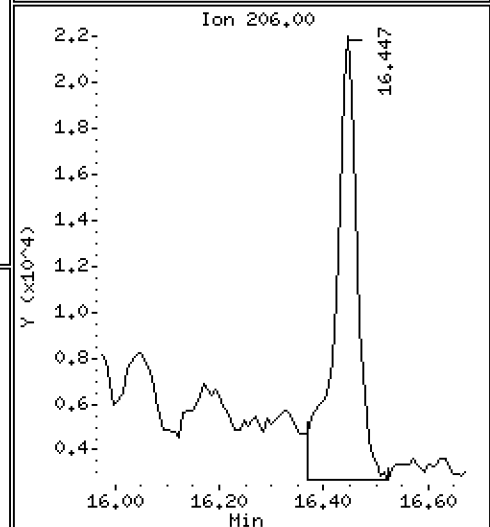
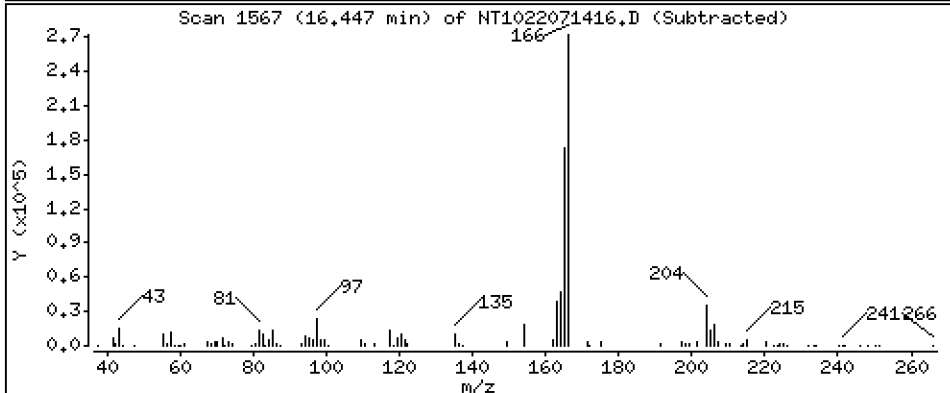
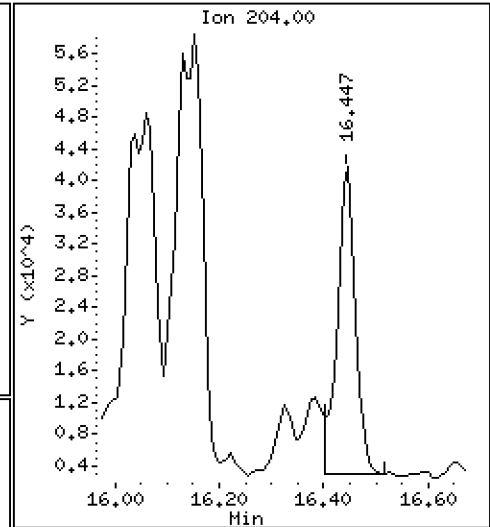
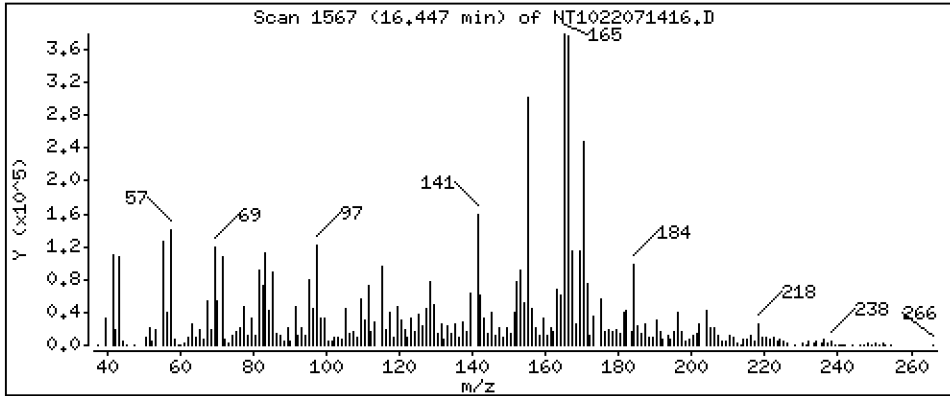
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

51 4-Chlorophenyl-phenylether

Concentration: 1.902 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

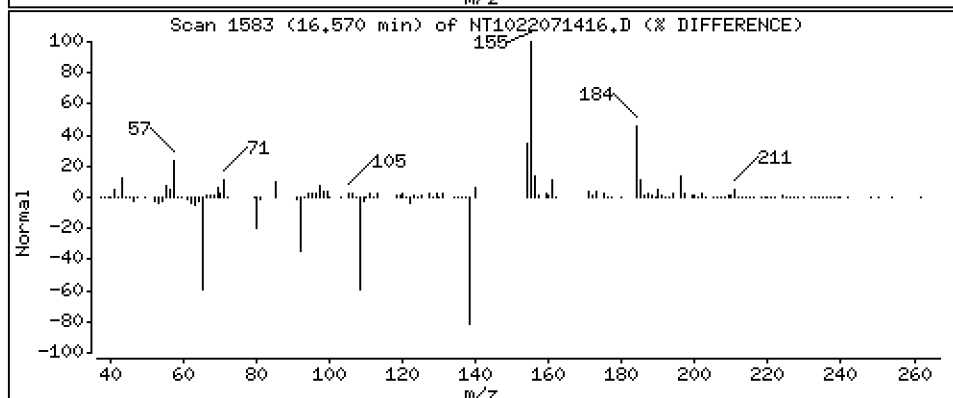
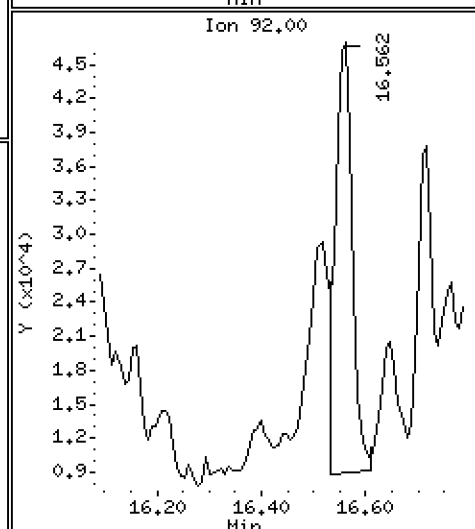
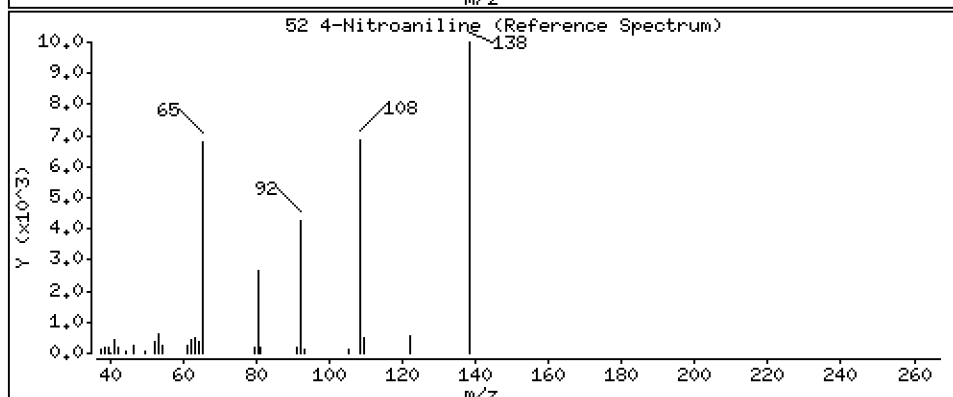
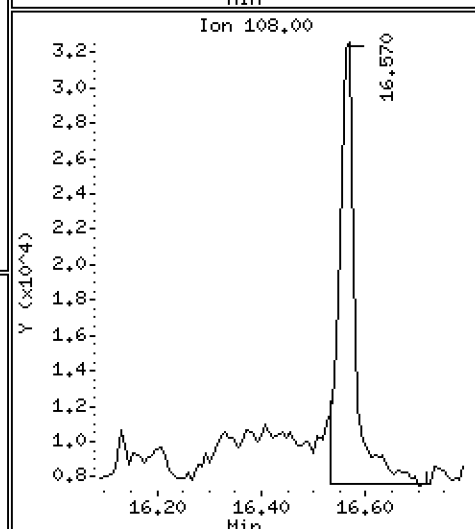
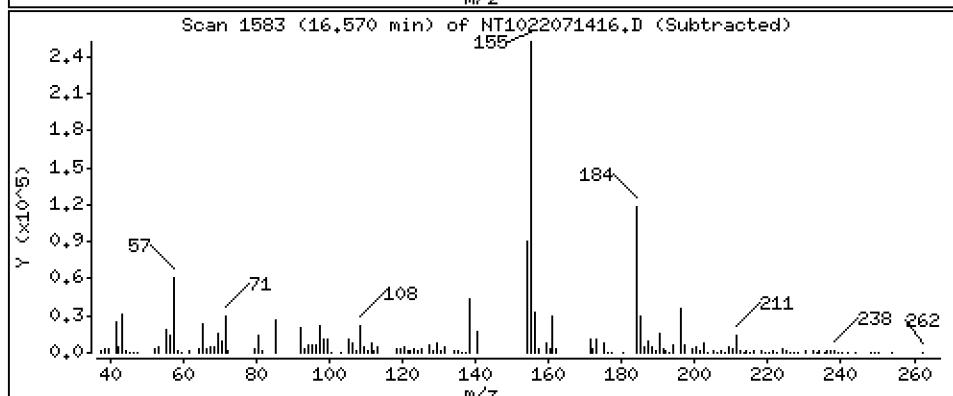
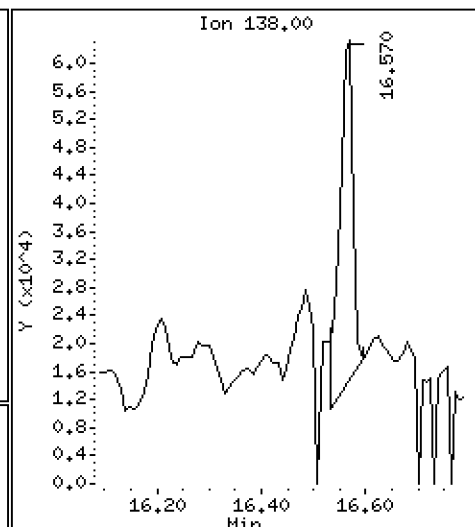
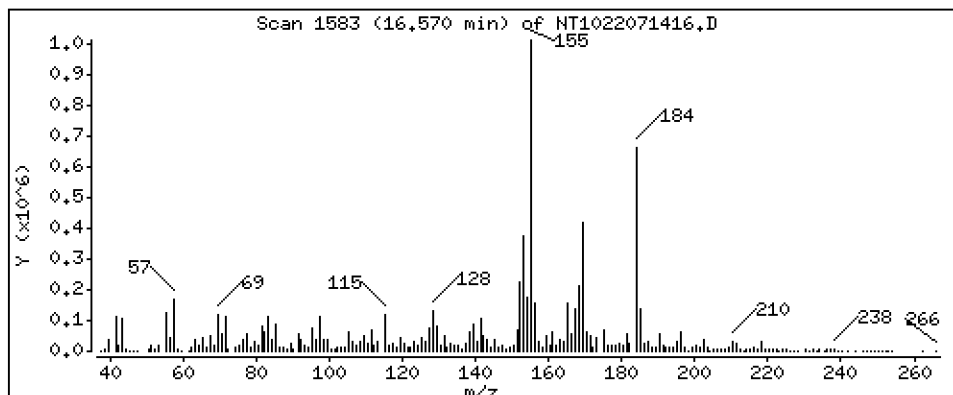
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

52 4-Nitroaniline

Concentration: 4.479 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

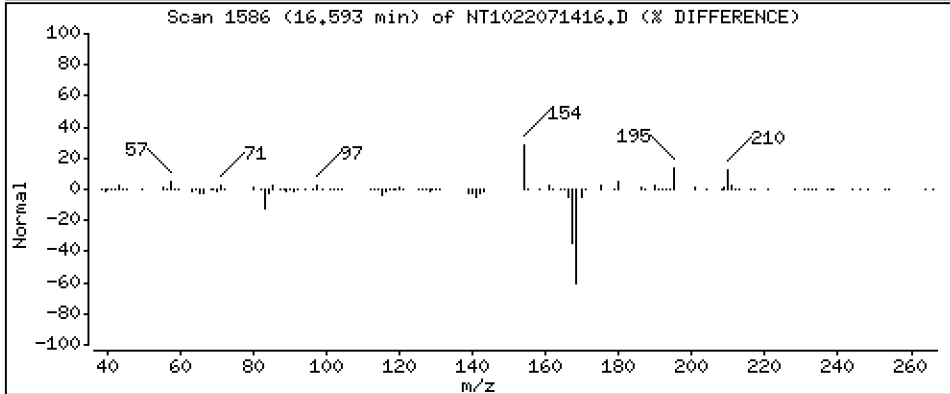
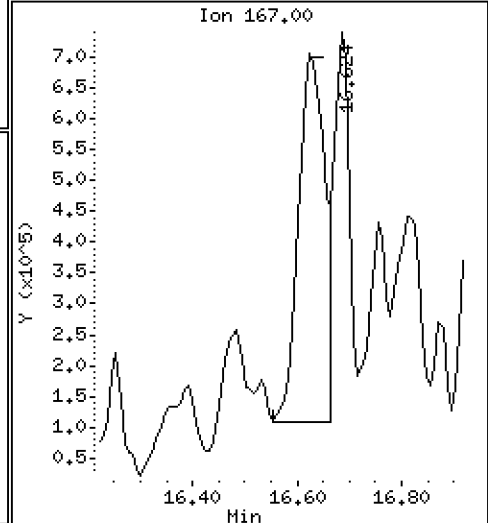
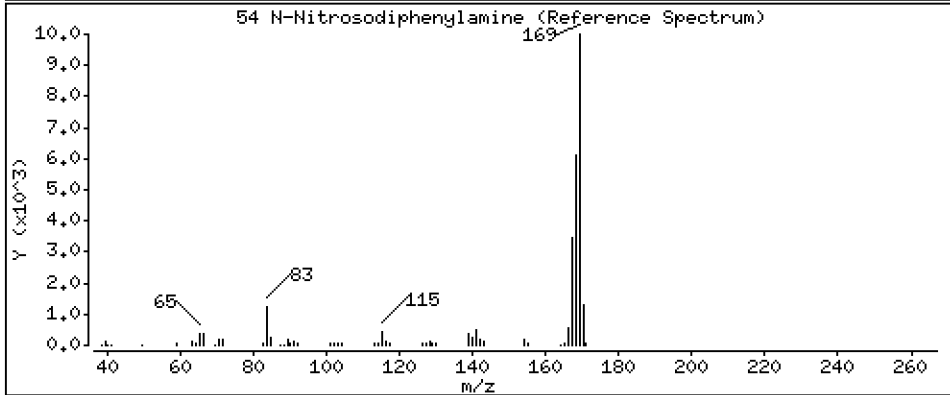
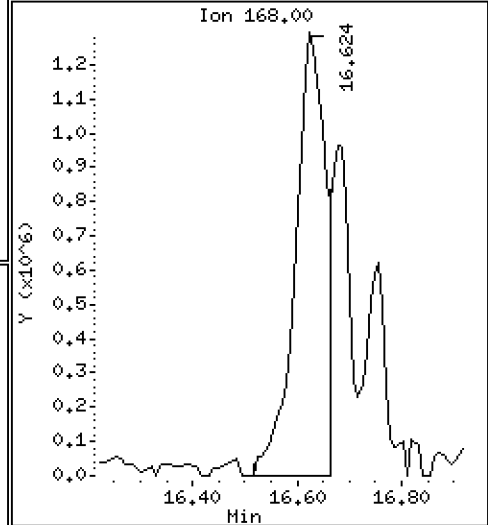
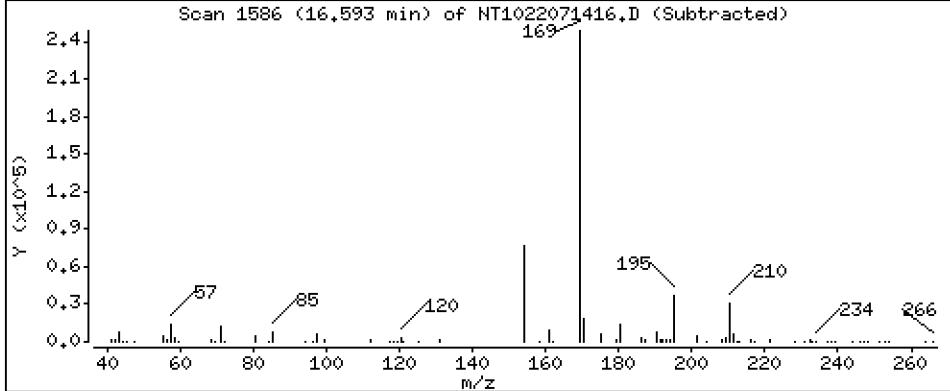
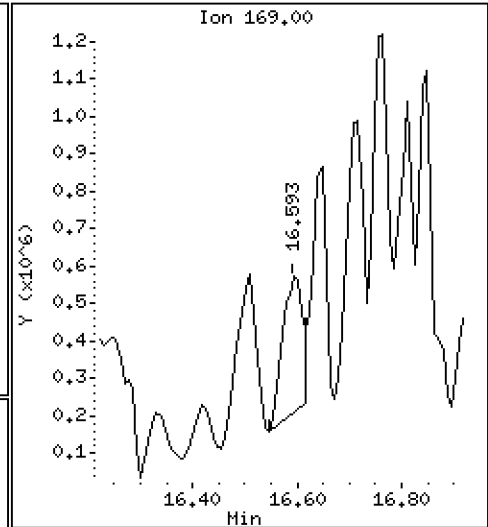
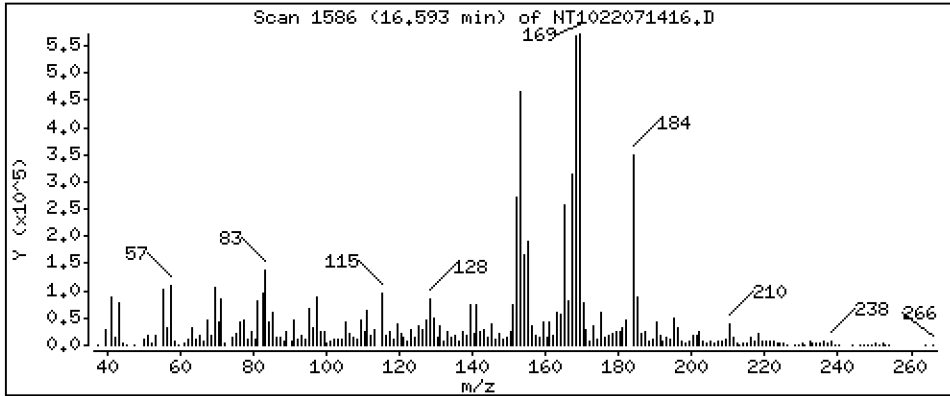
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 26.81 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

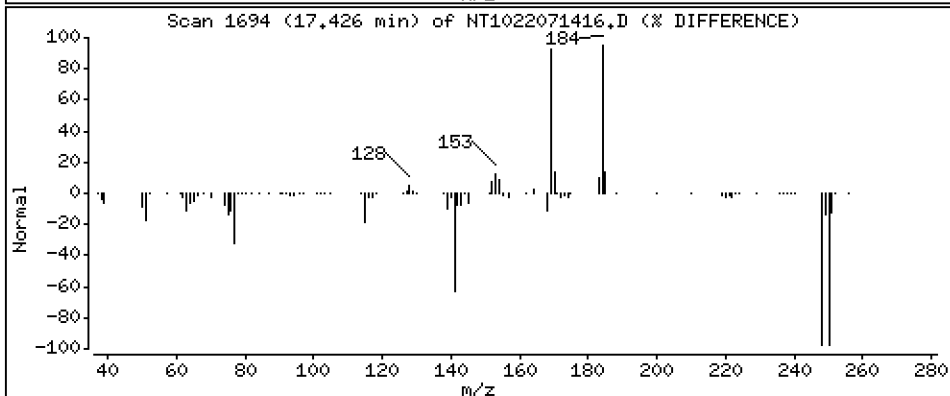
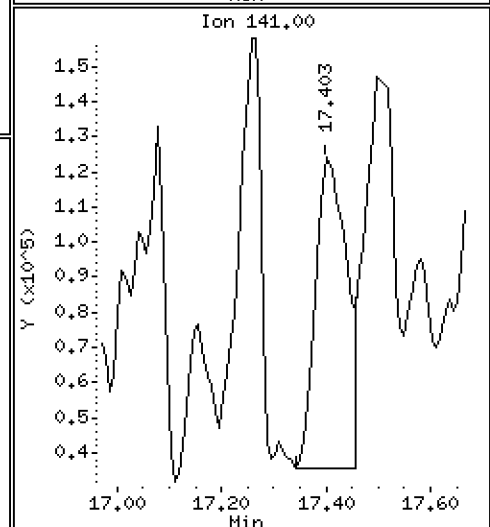
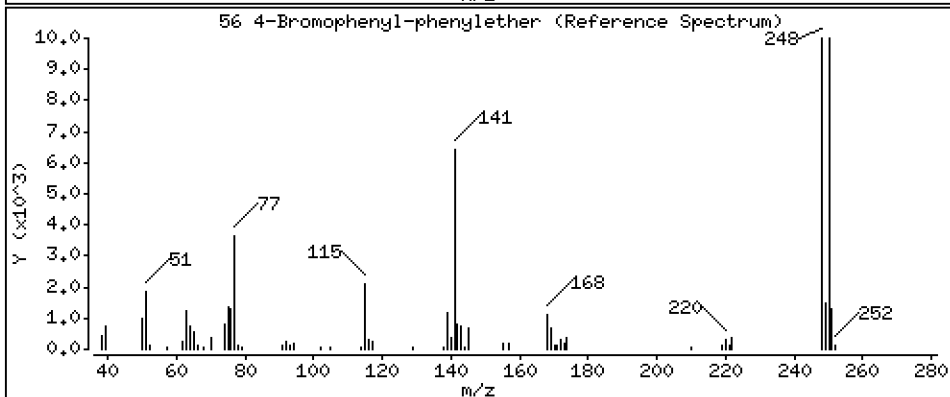
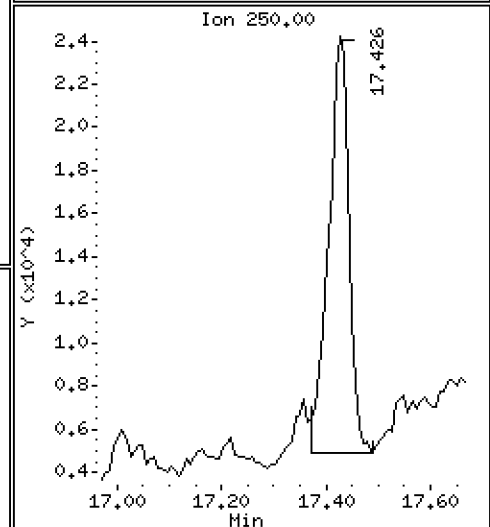
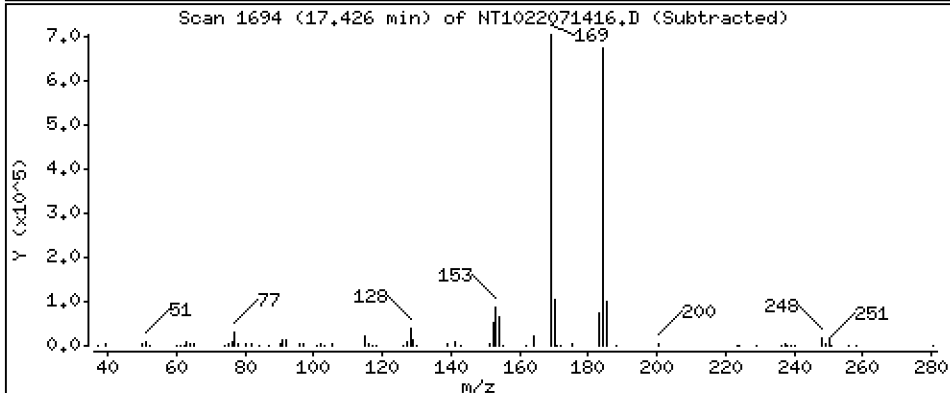
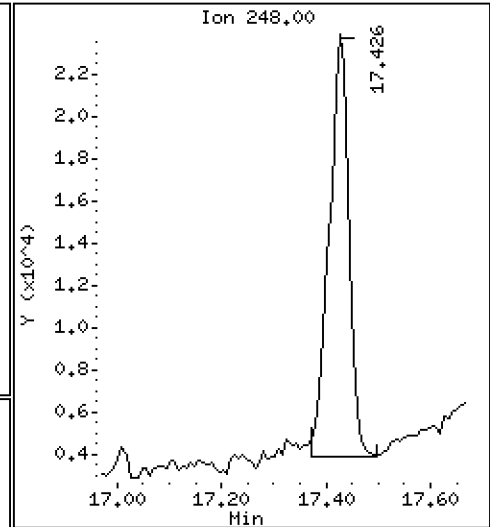
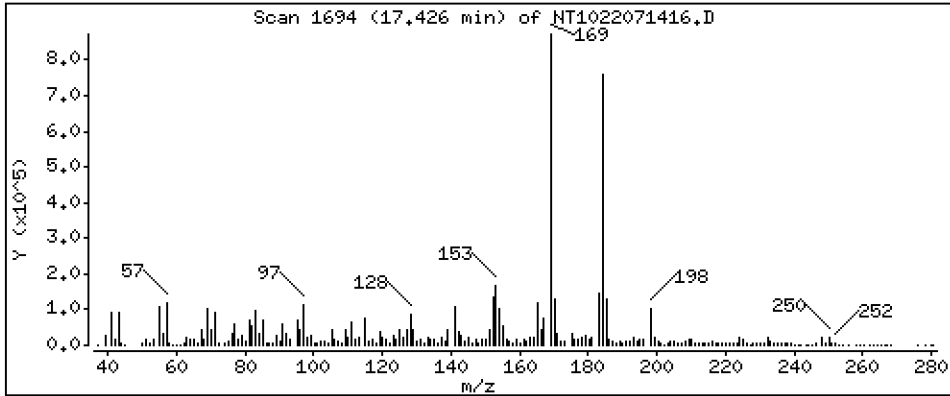
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 3,099 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

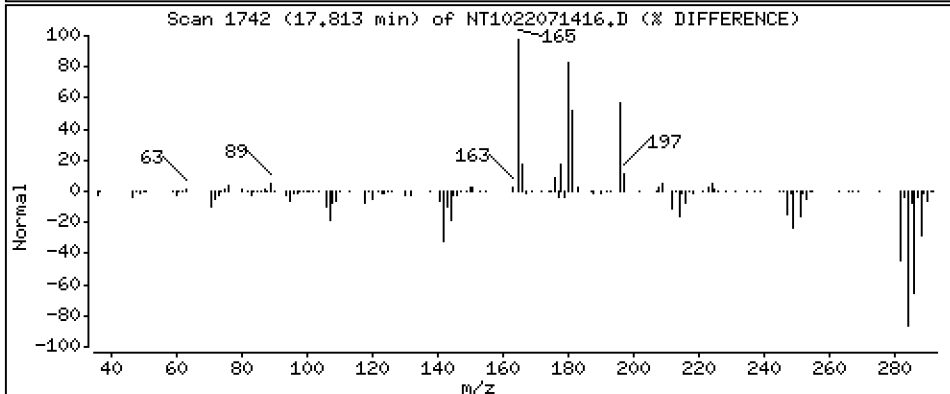
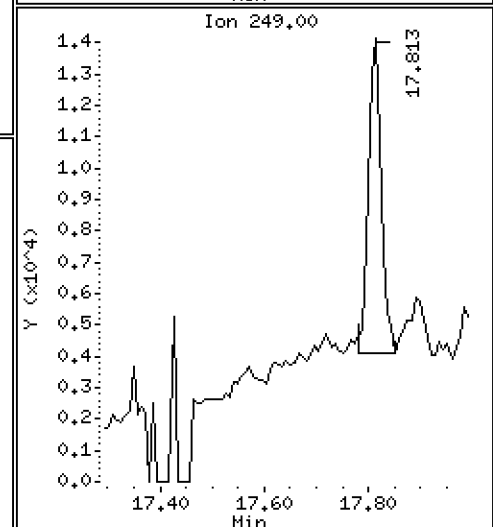
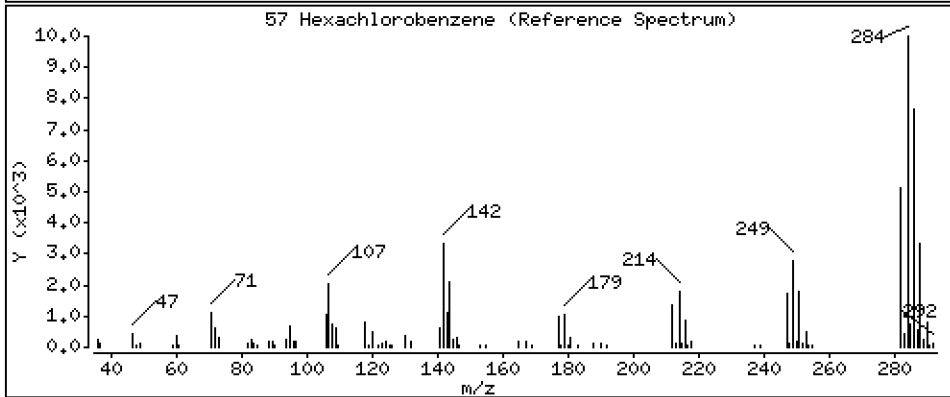
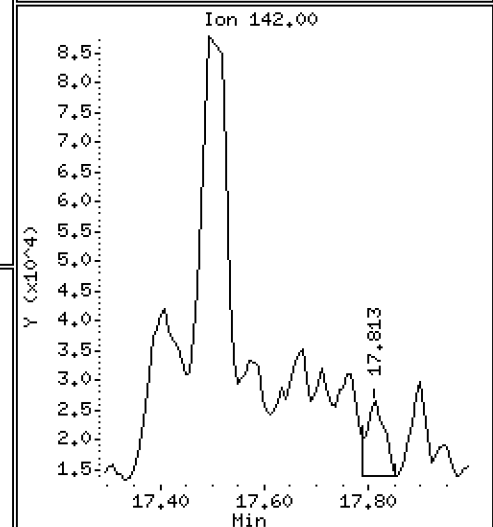
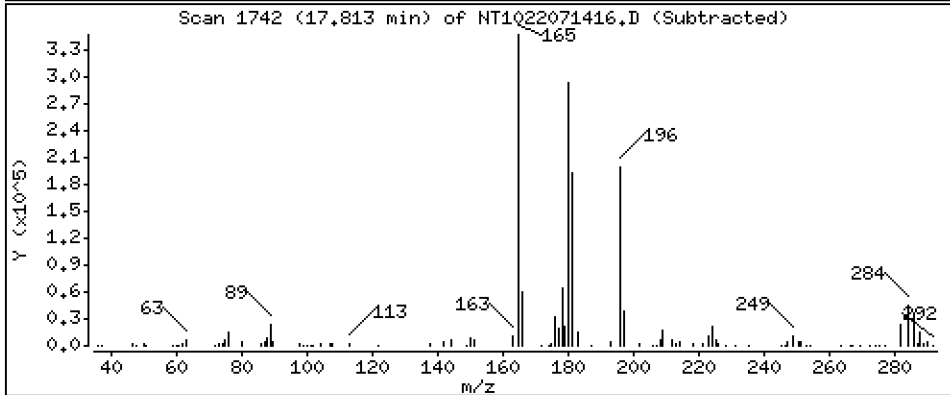
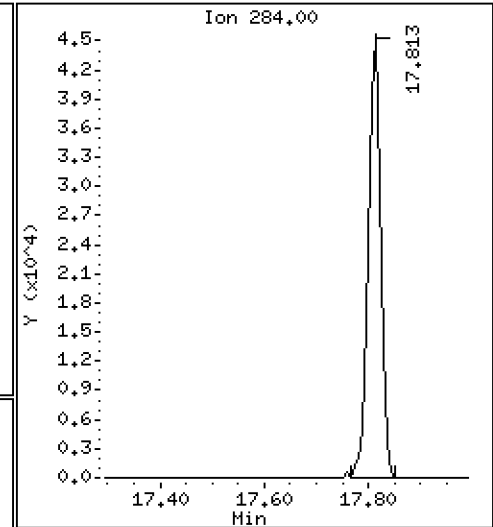
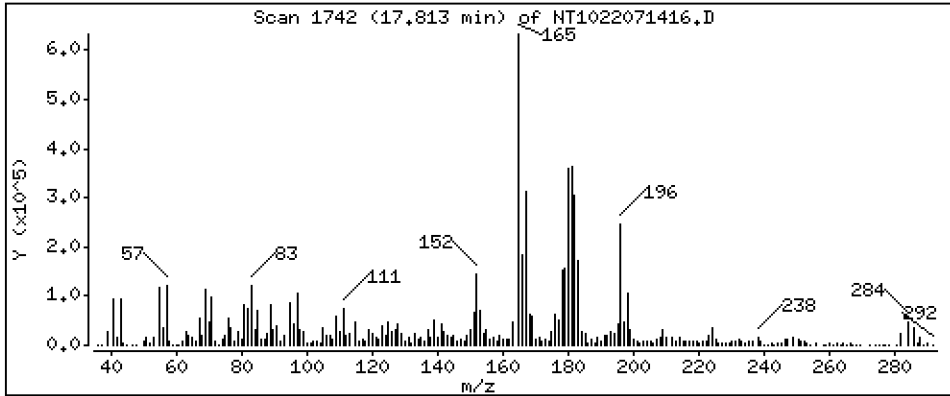
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,649 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

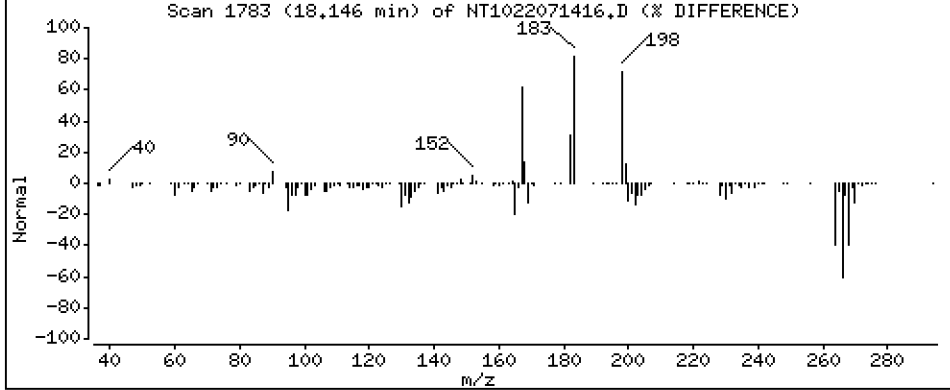
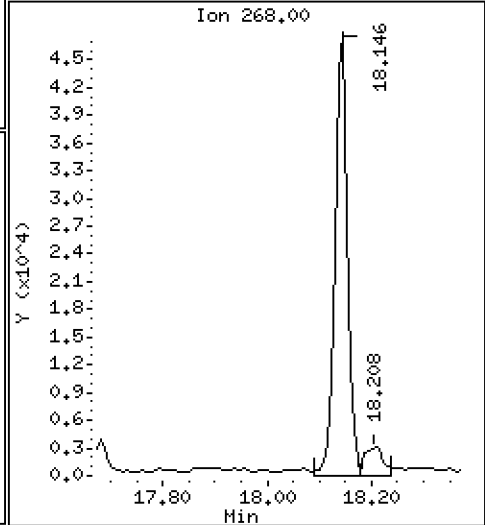
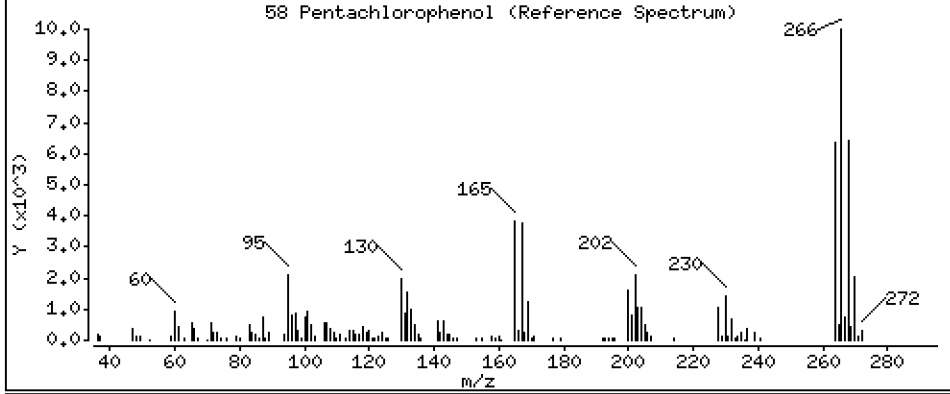
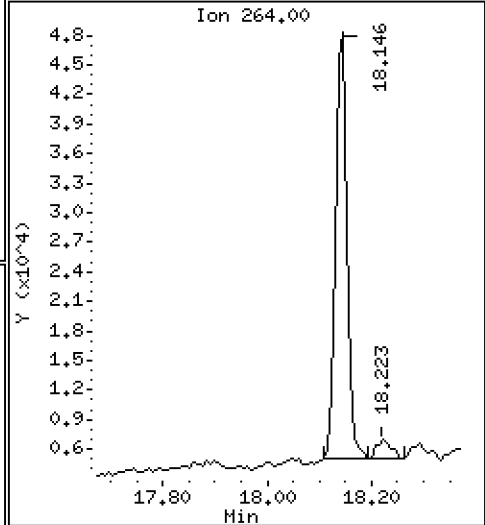
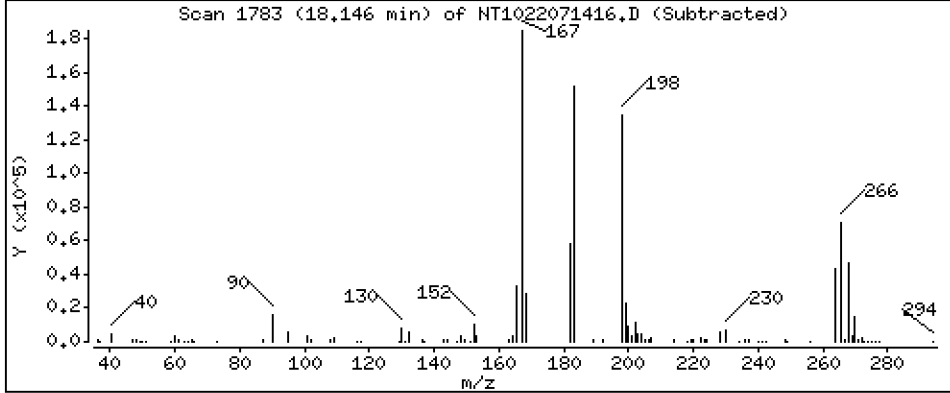
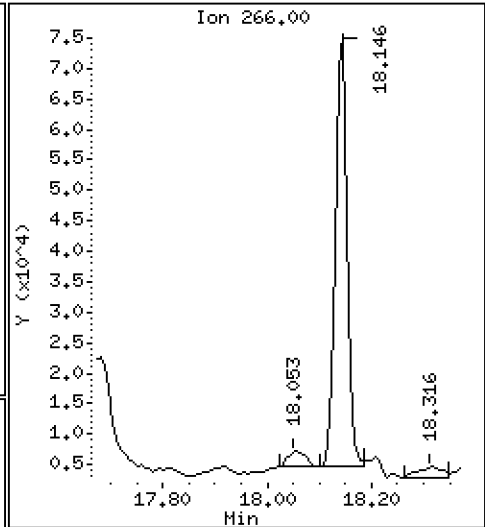
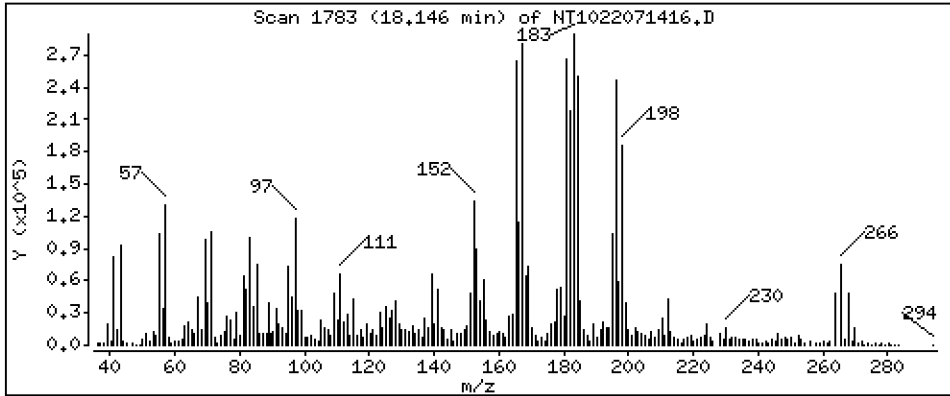
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 28,03 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

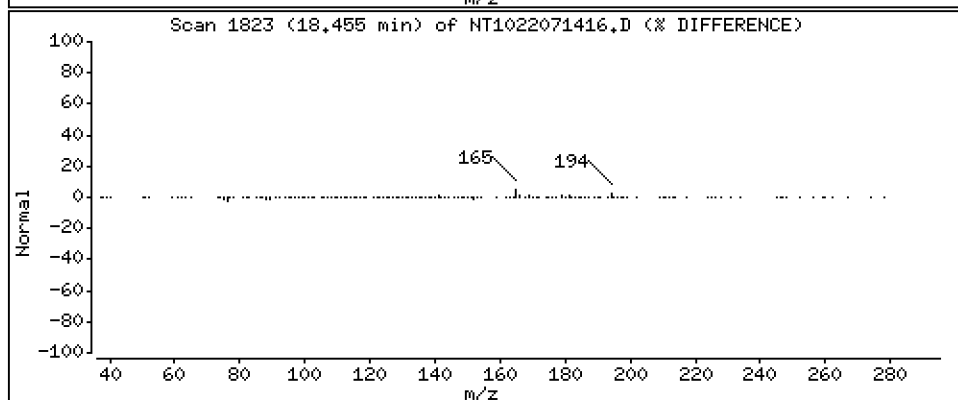
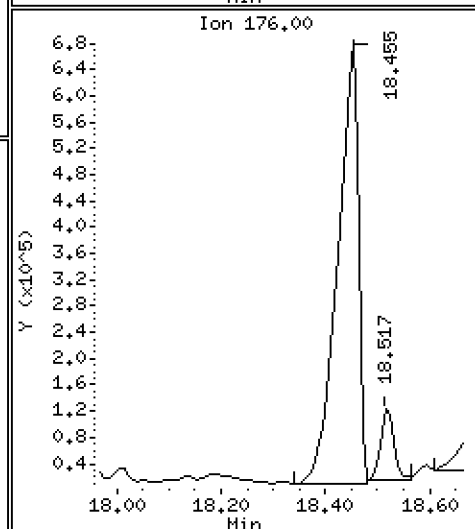
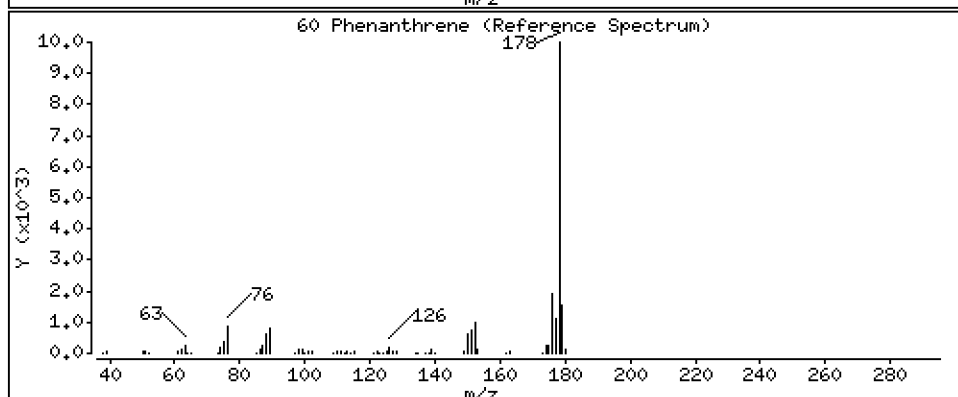
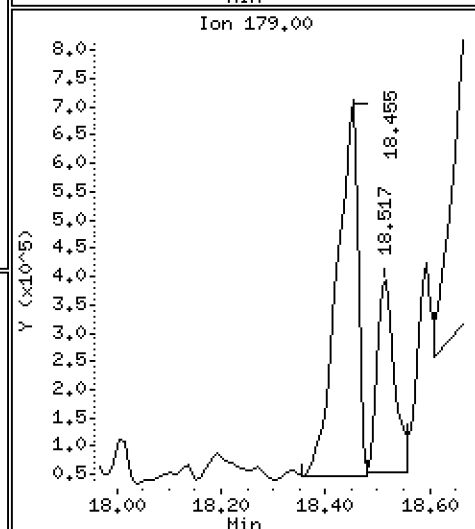
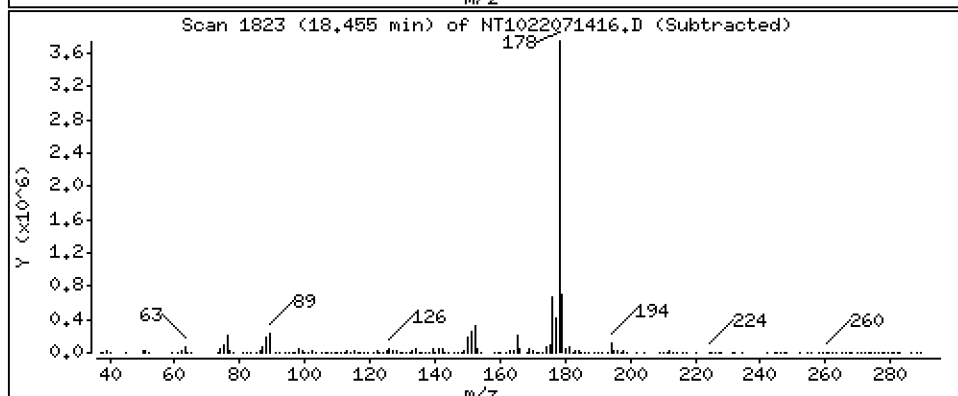
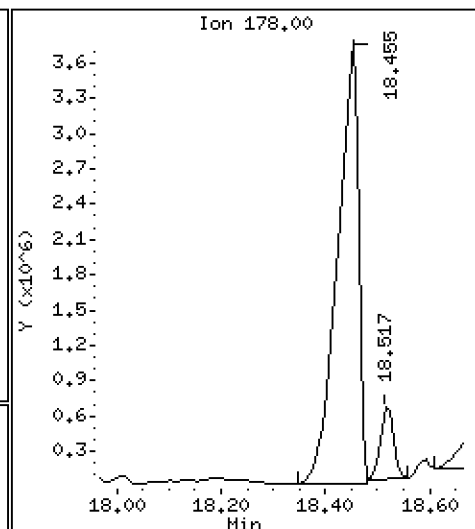
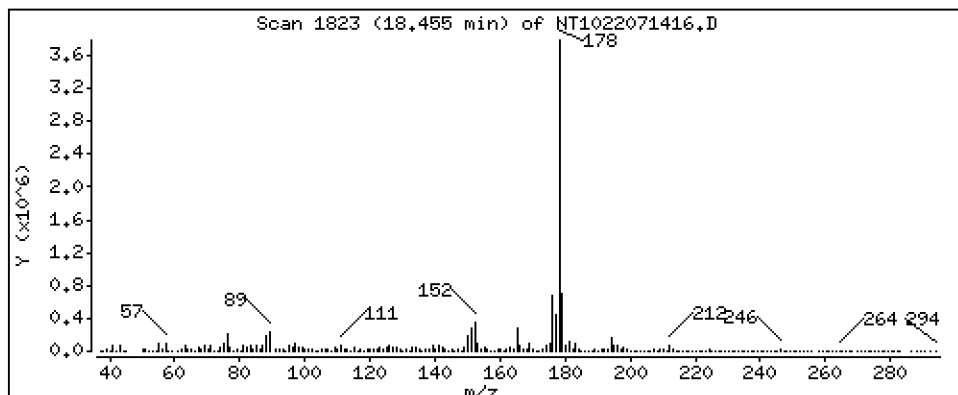
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 168,5 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

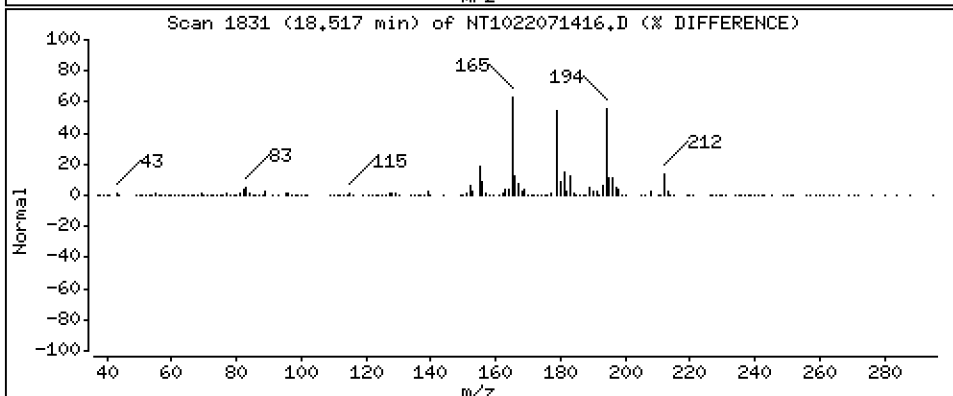
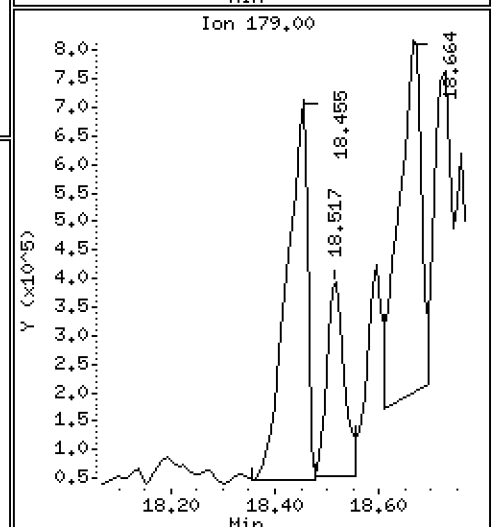
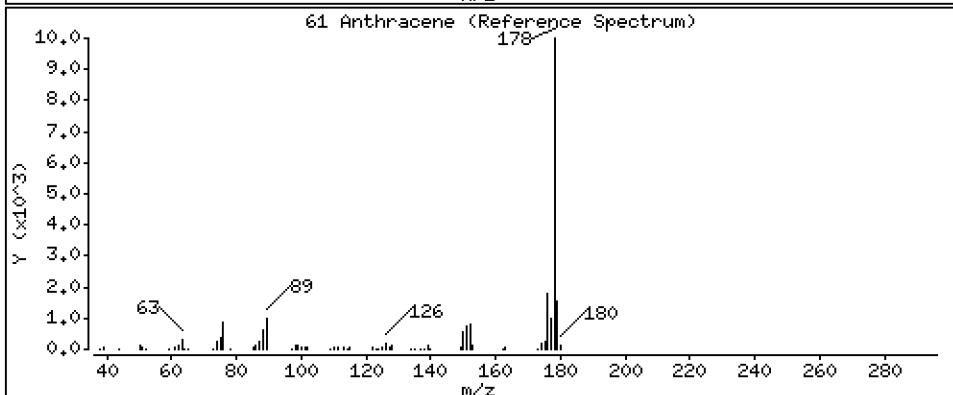
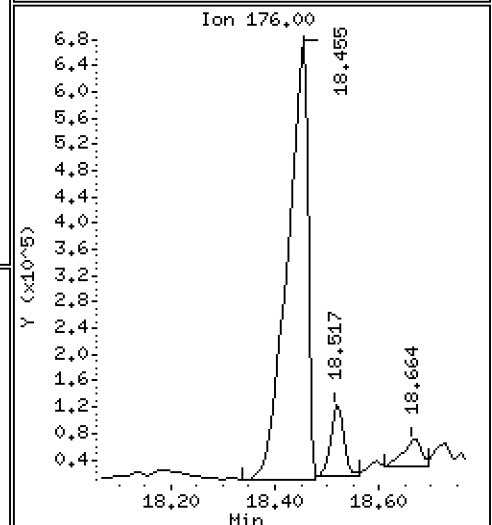
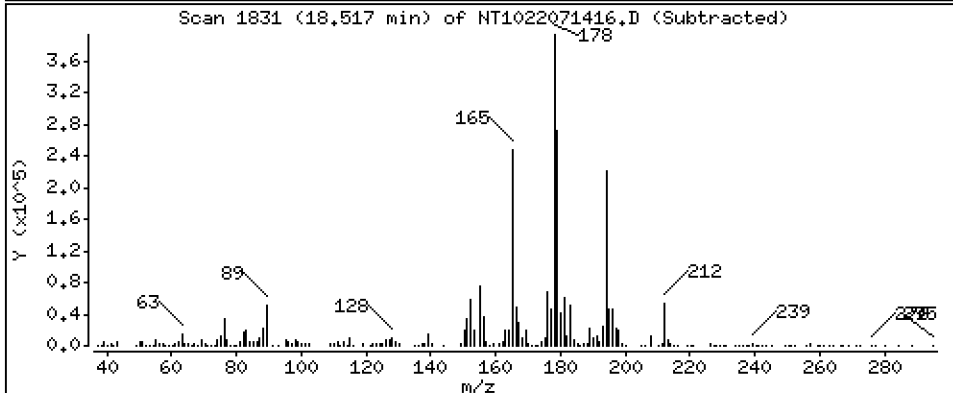
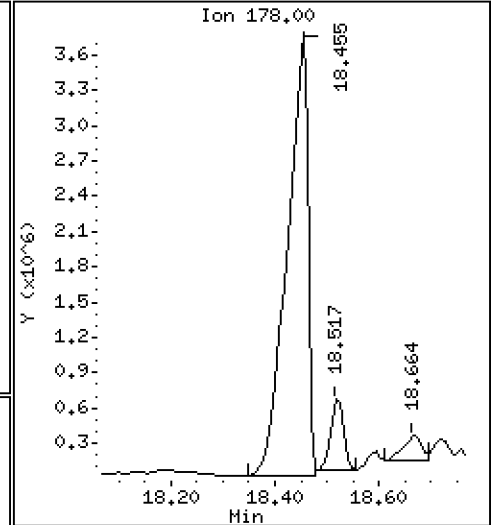
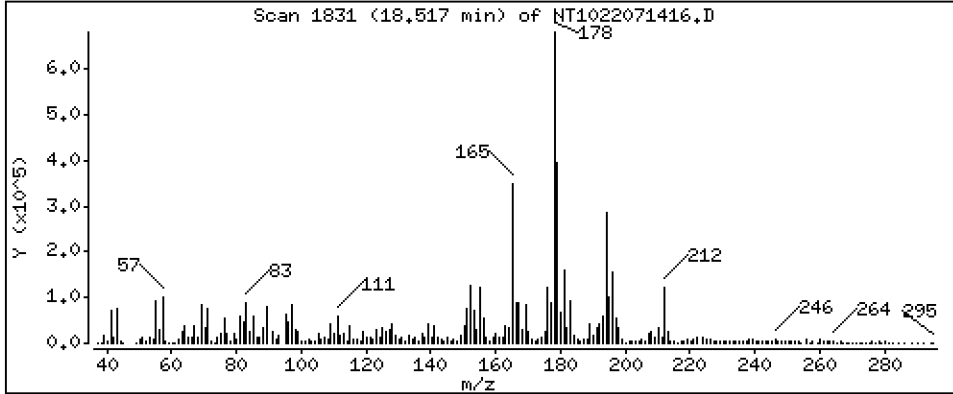
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 16,88 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

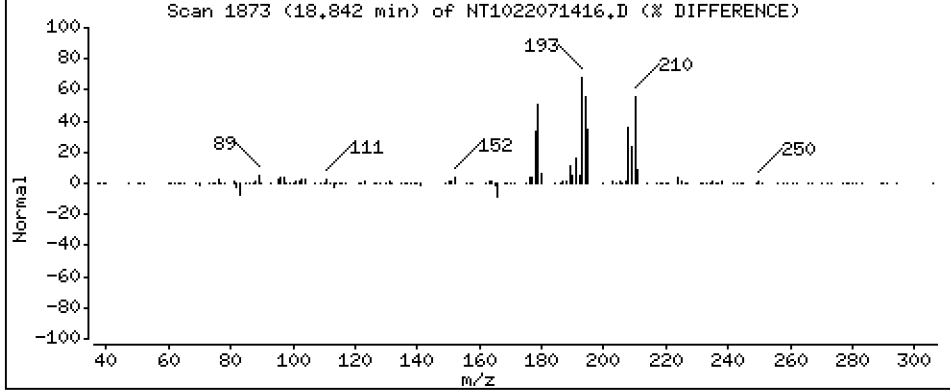
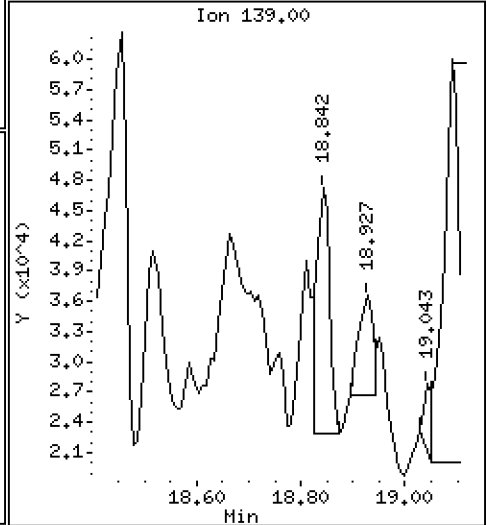
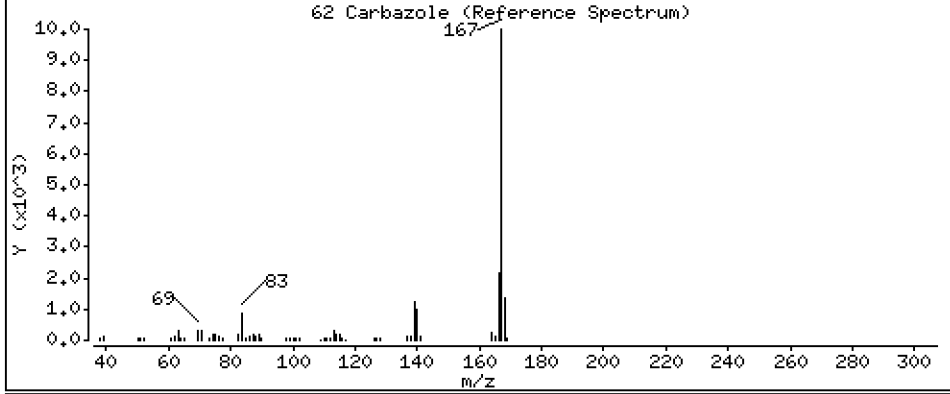
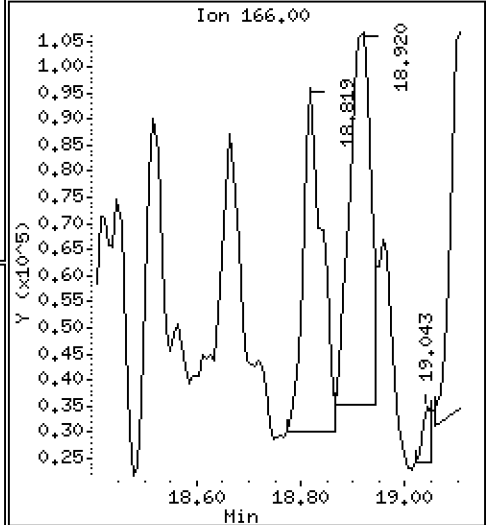
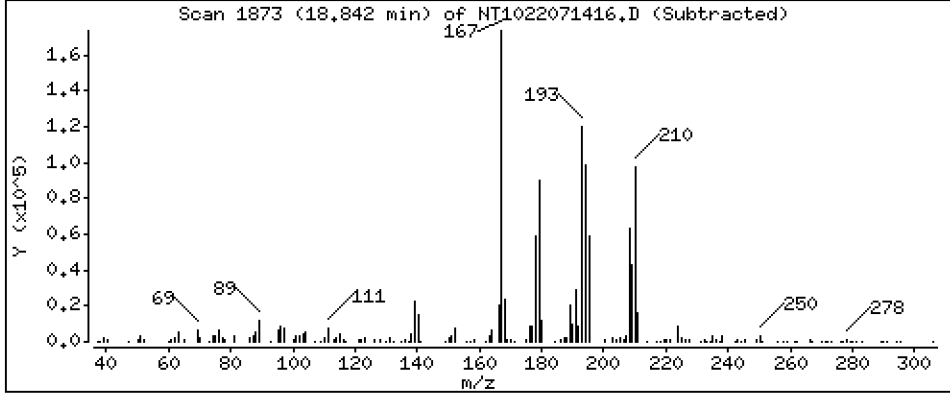
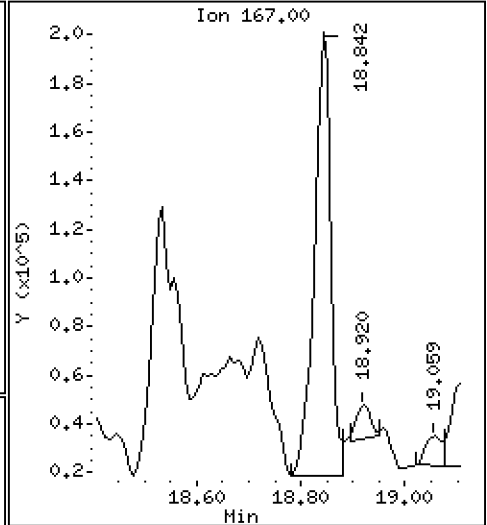
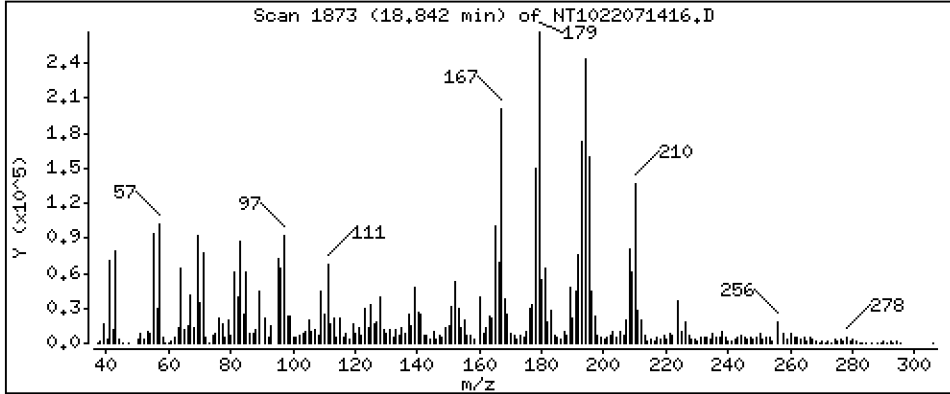
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 6,301 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

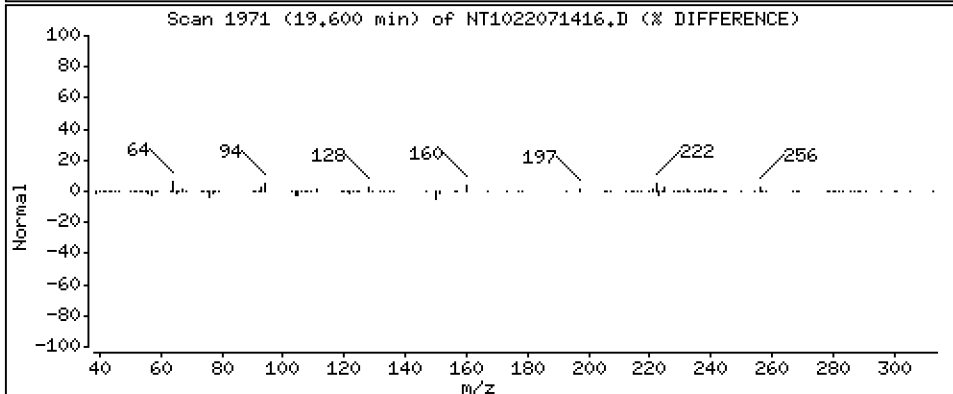
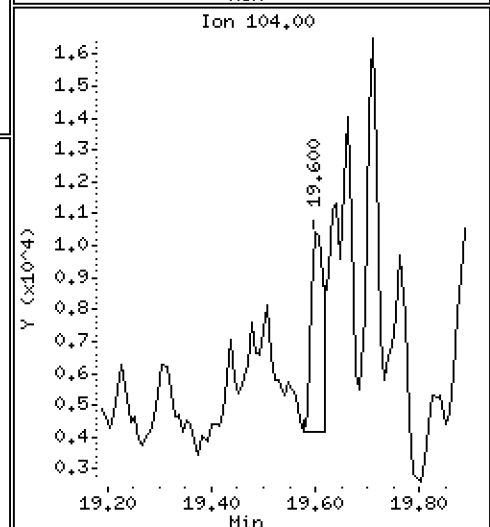
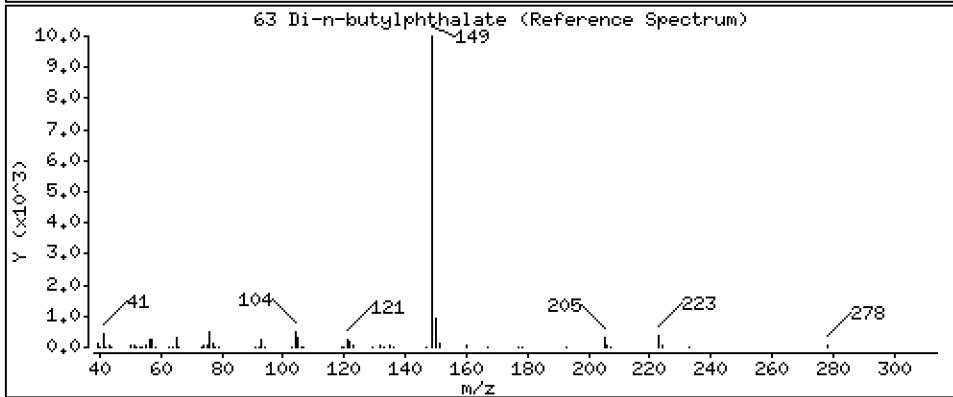
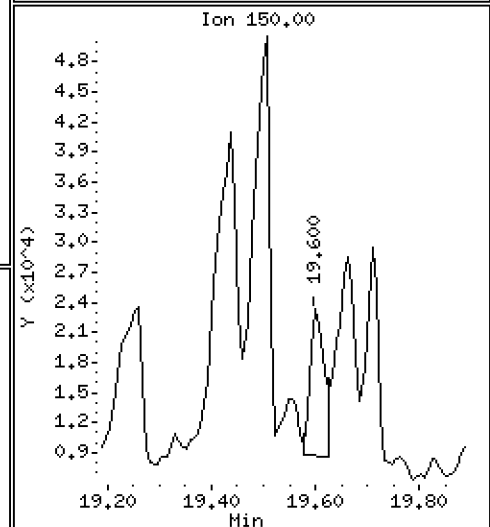
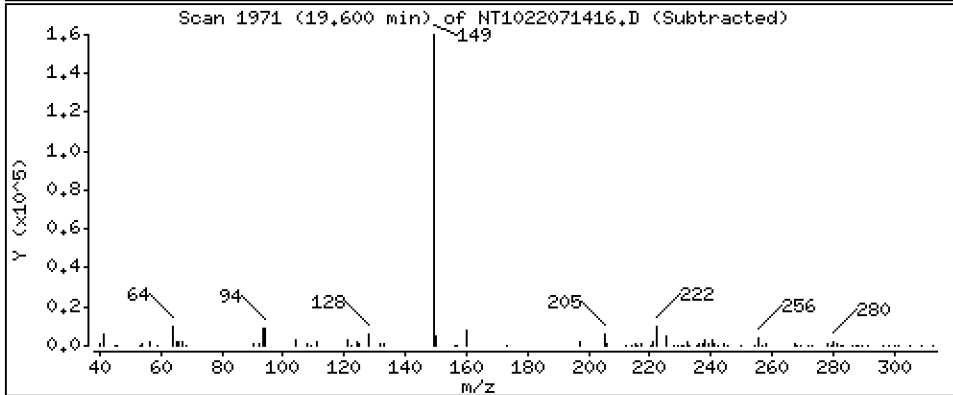
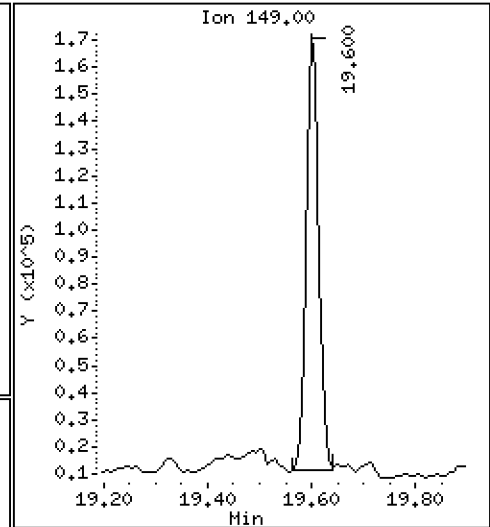
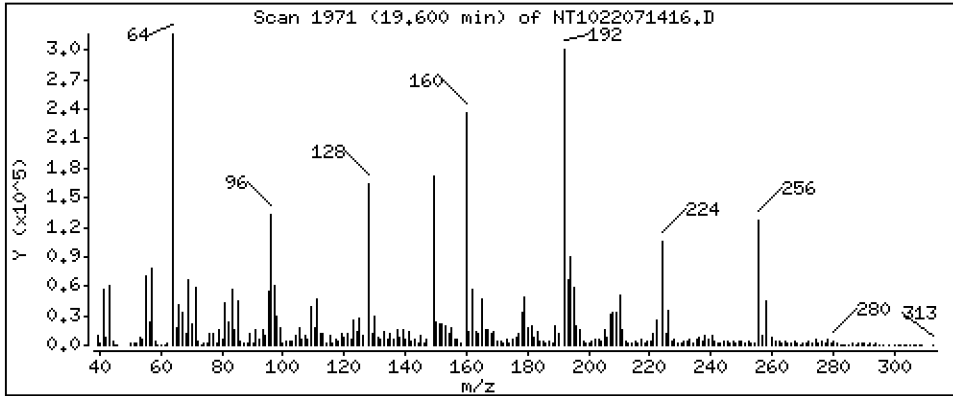
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 2,859 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

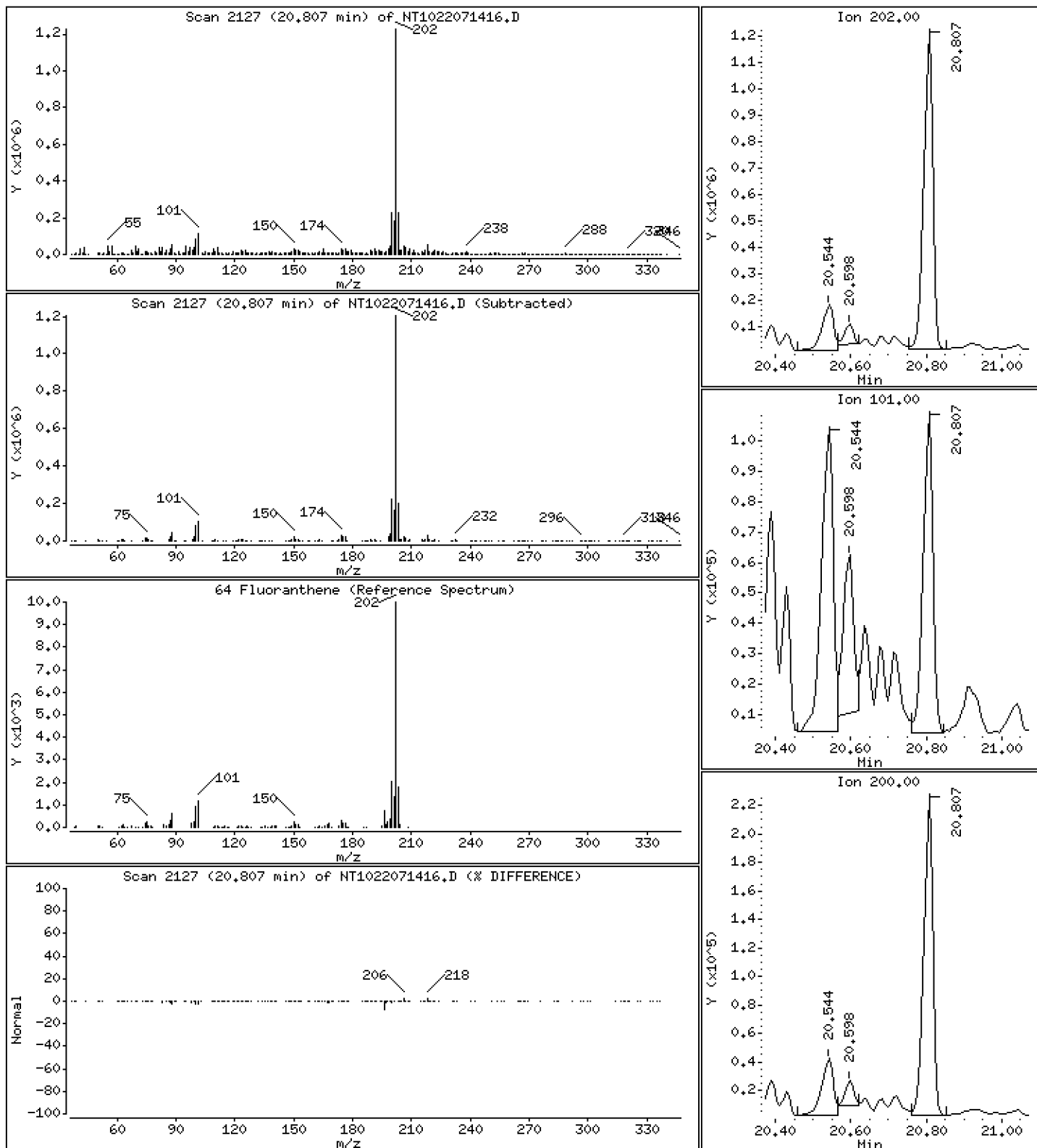
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 9,585 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

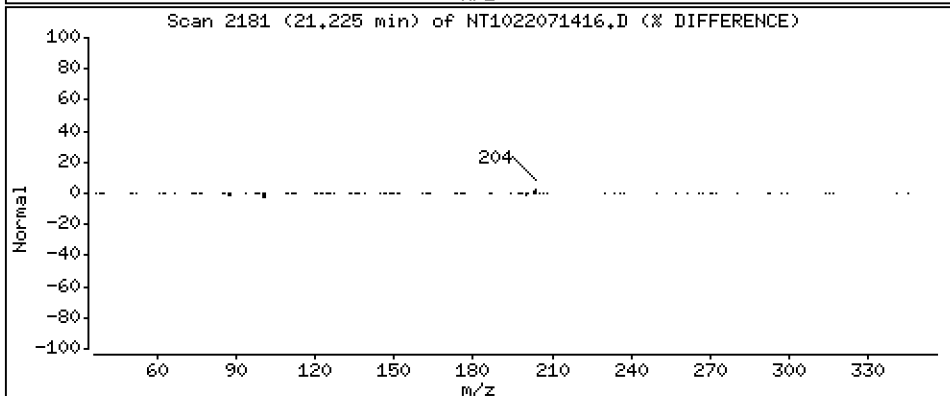
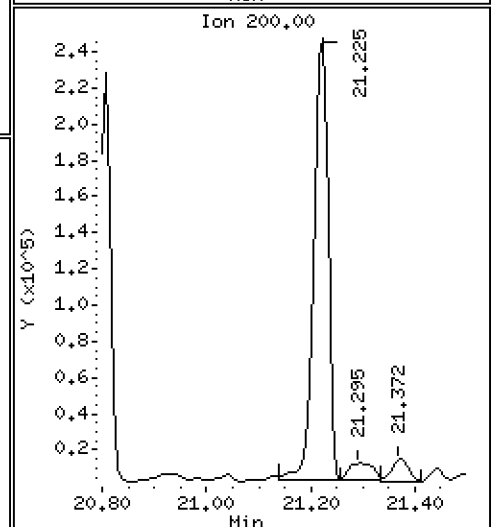
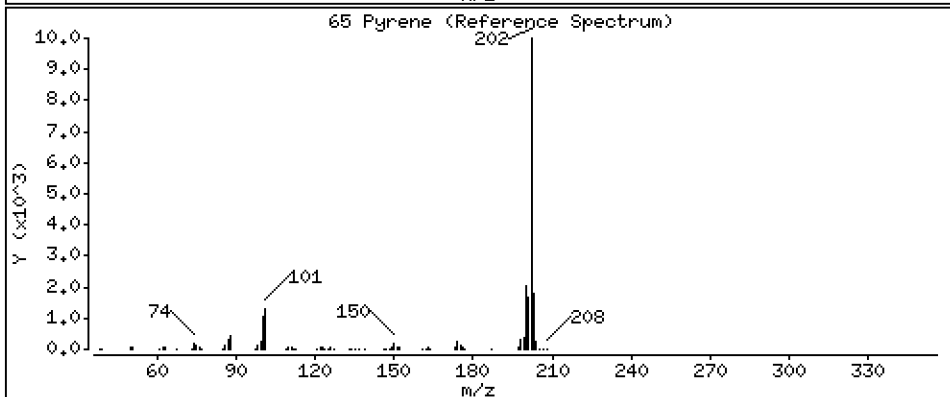
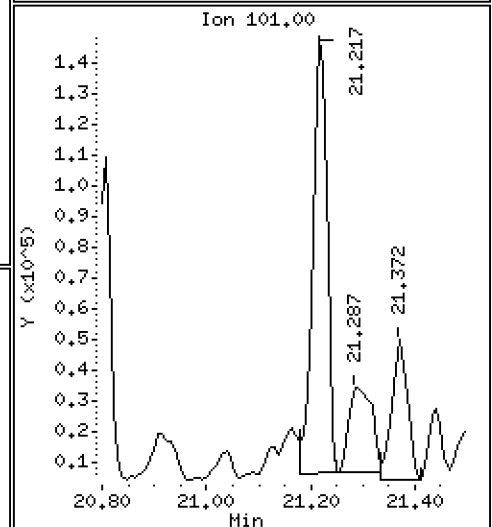
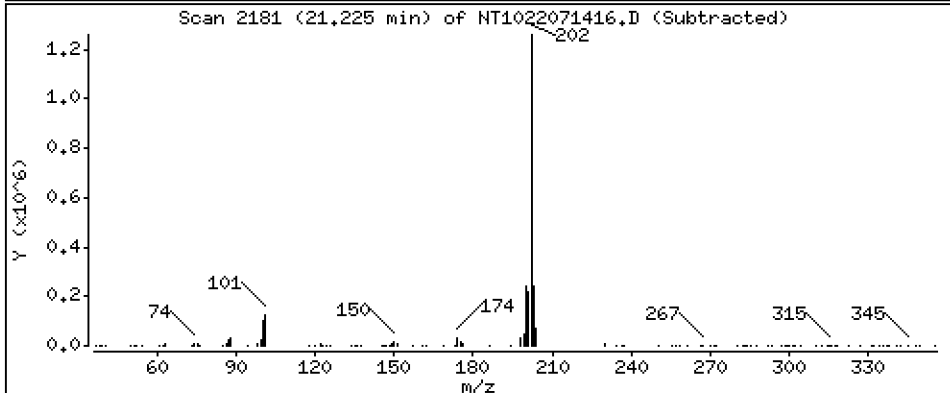
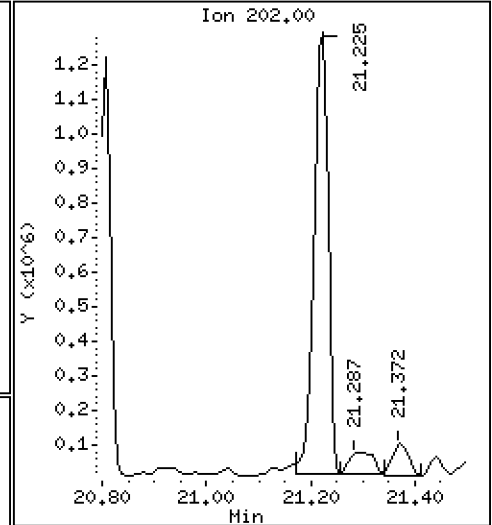
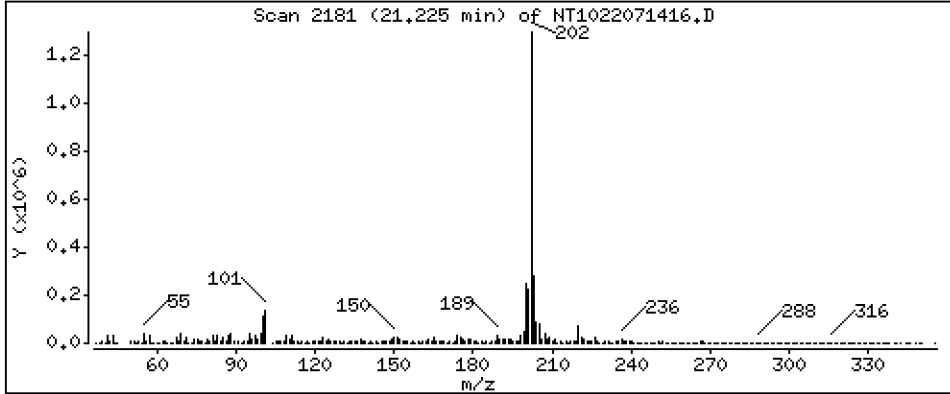
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 12,58 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

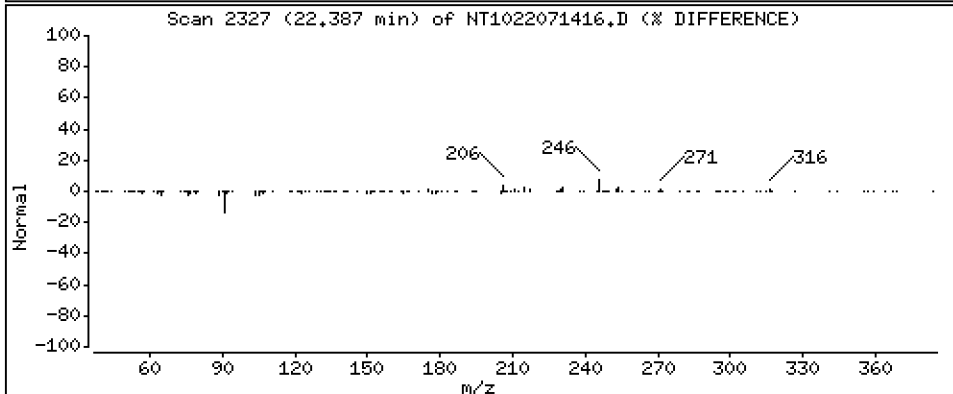
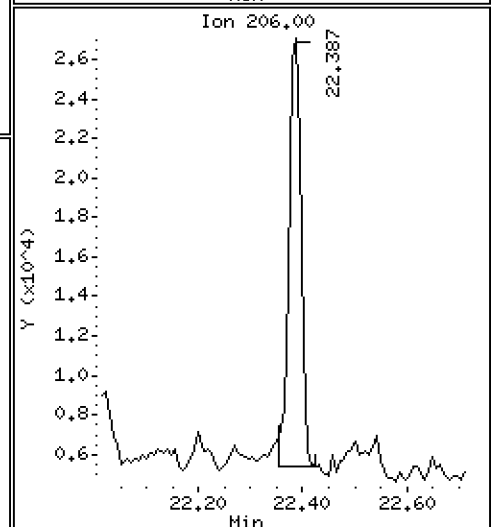
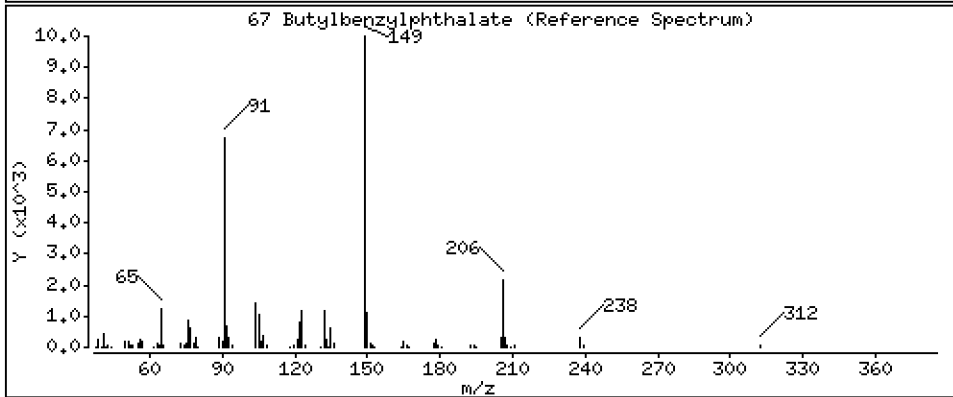
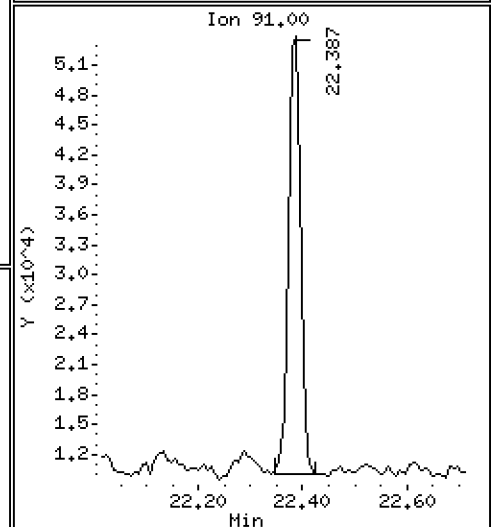
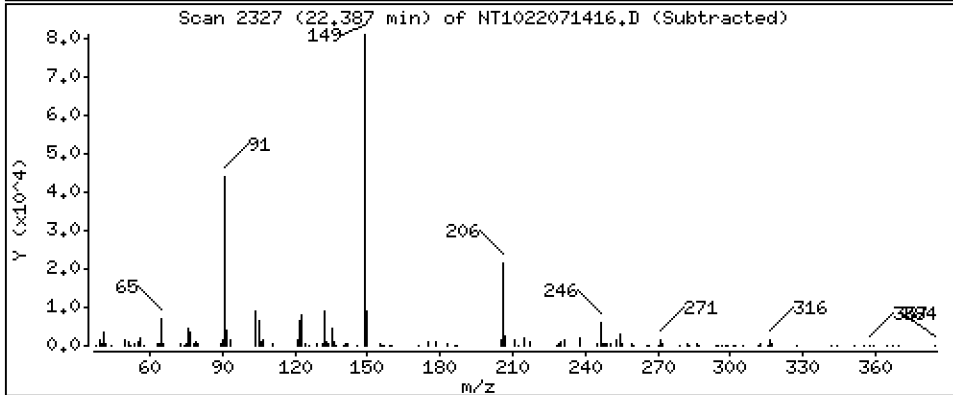
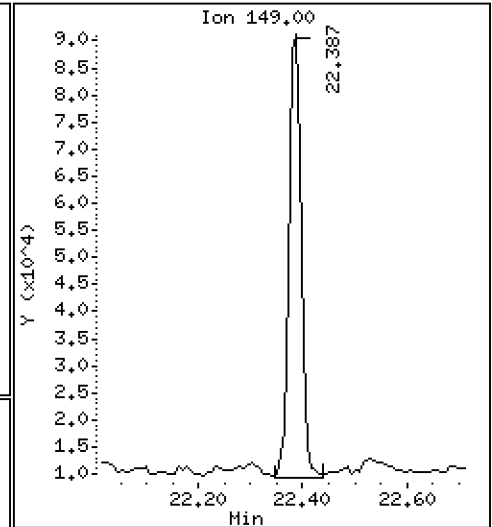
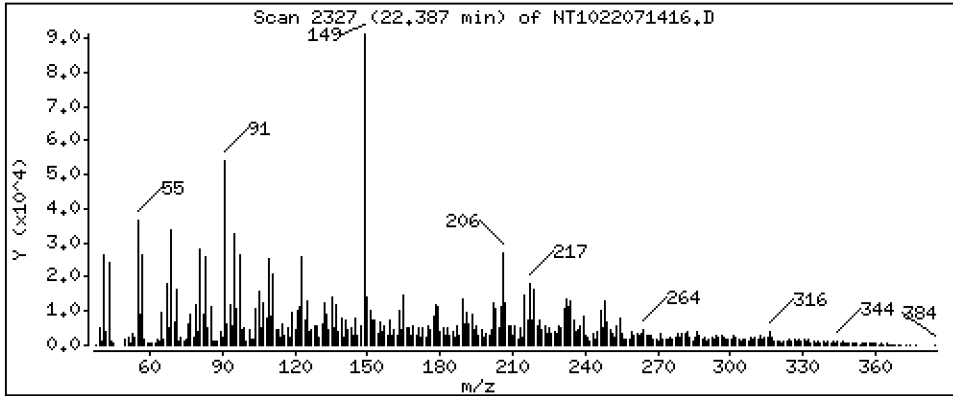
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 2,617 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

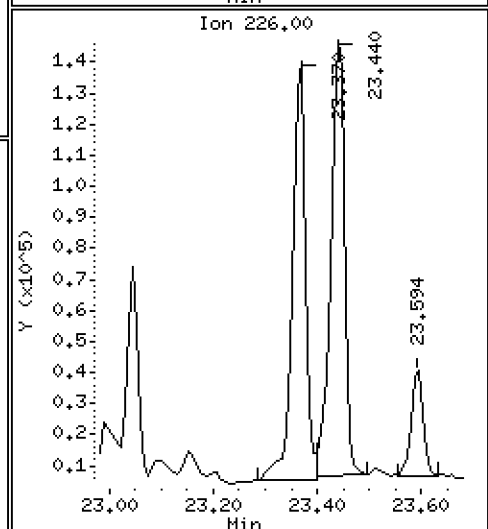
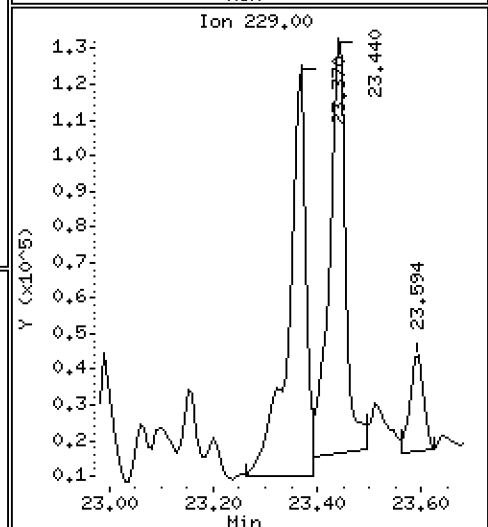
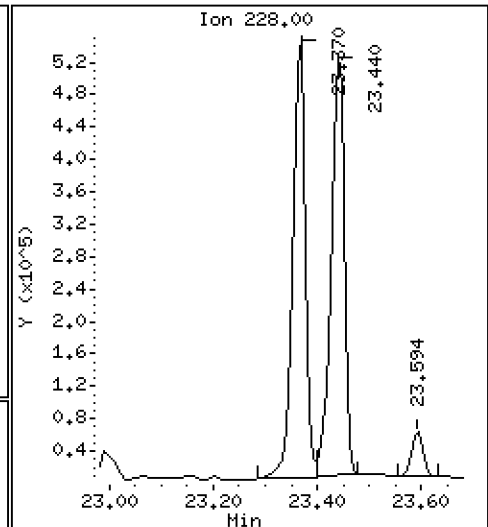
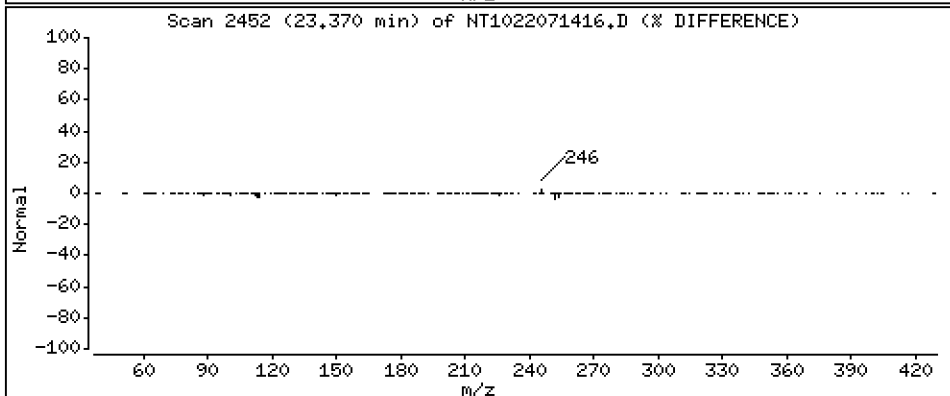
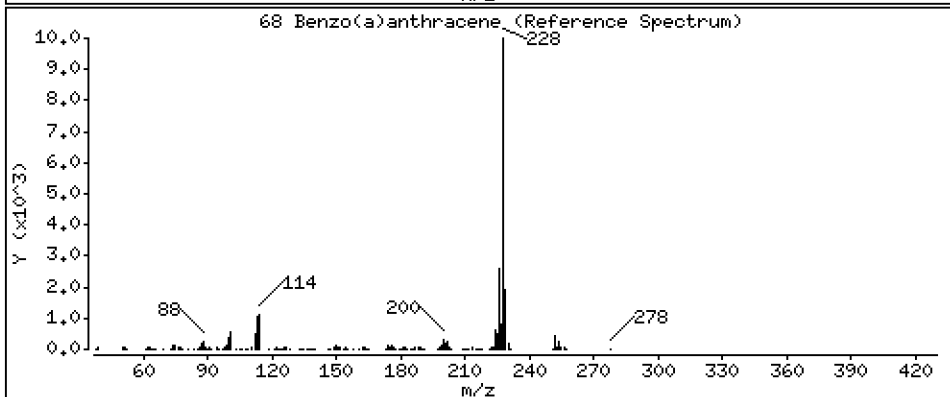
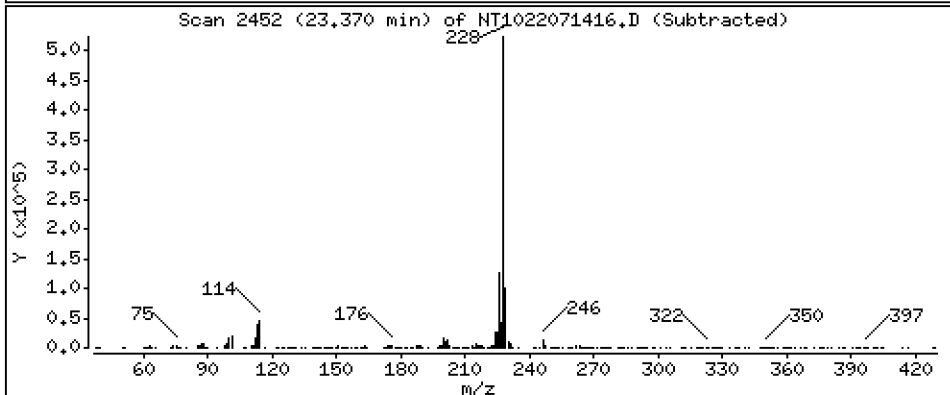
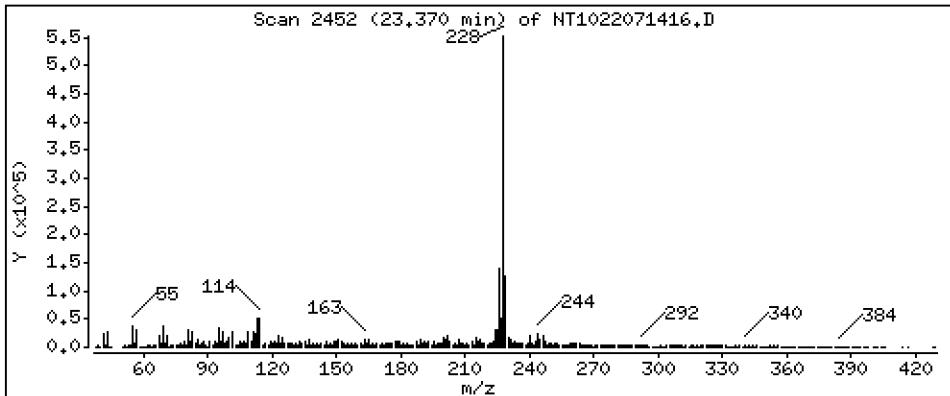
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 8,508 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

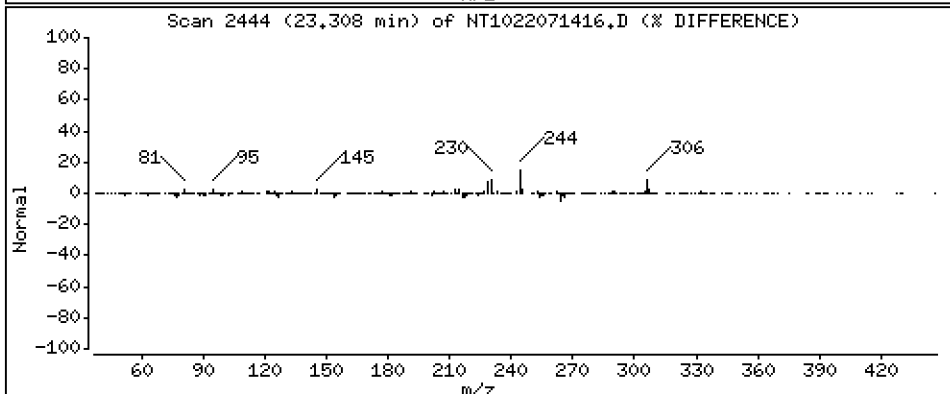
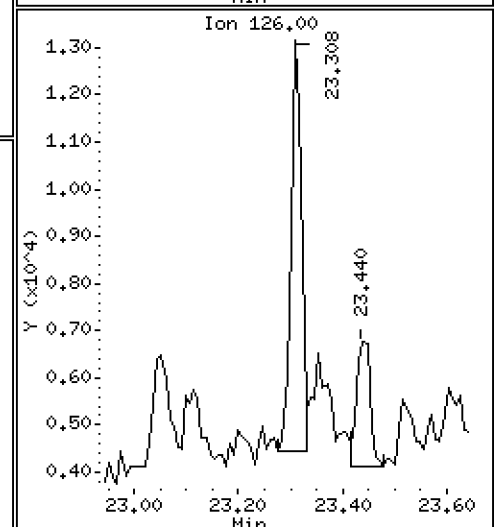
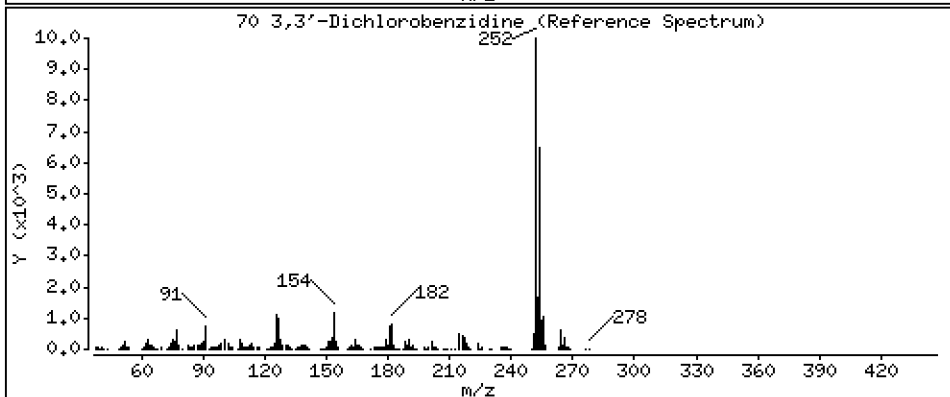
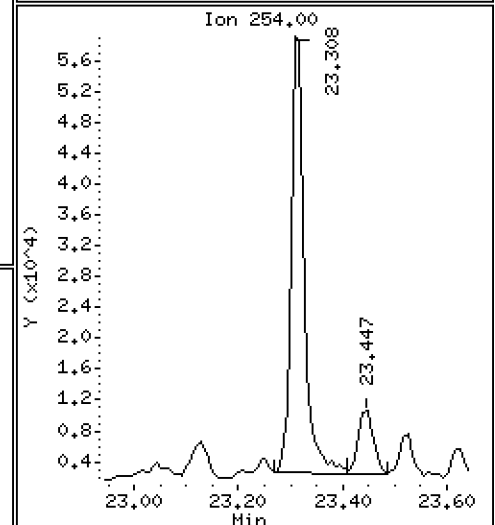
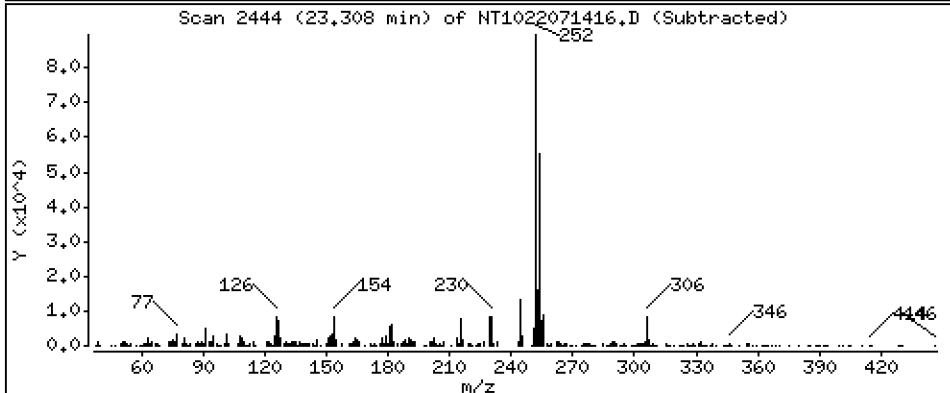
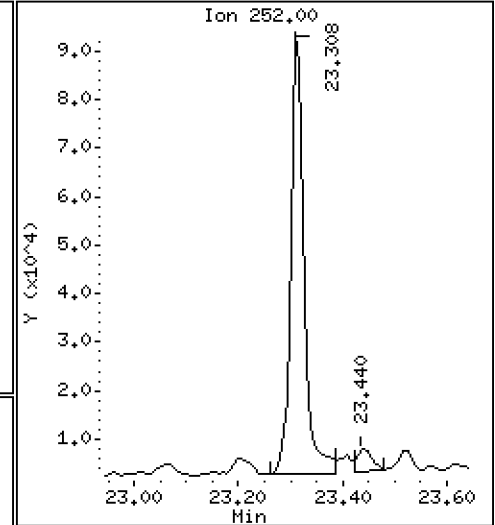
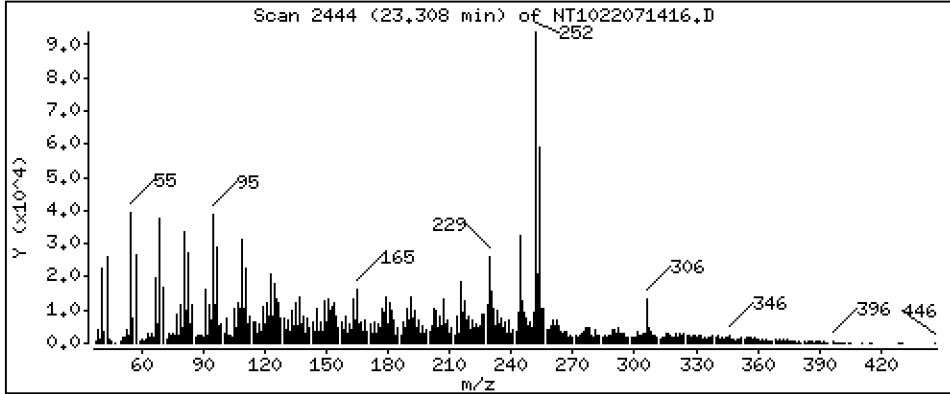
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 4,473 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

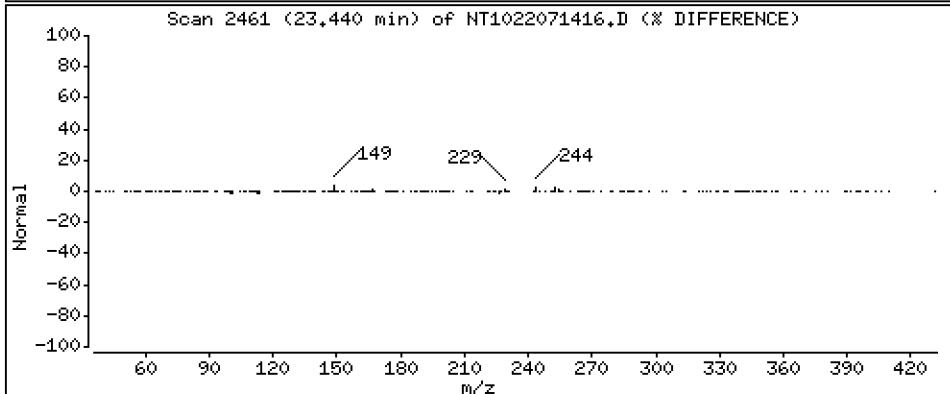
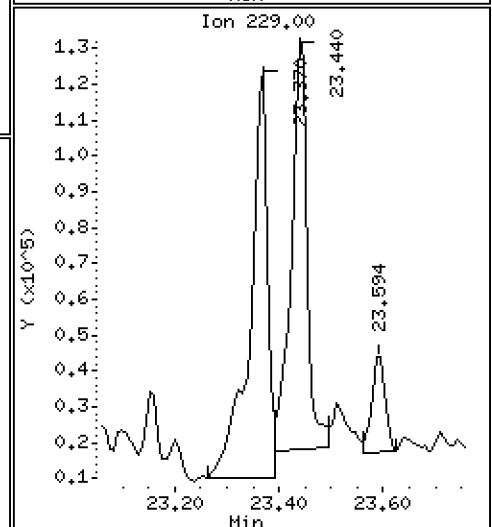
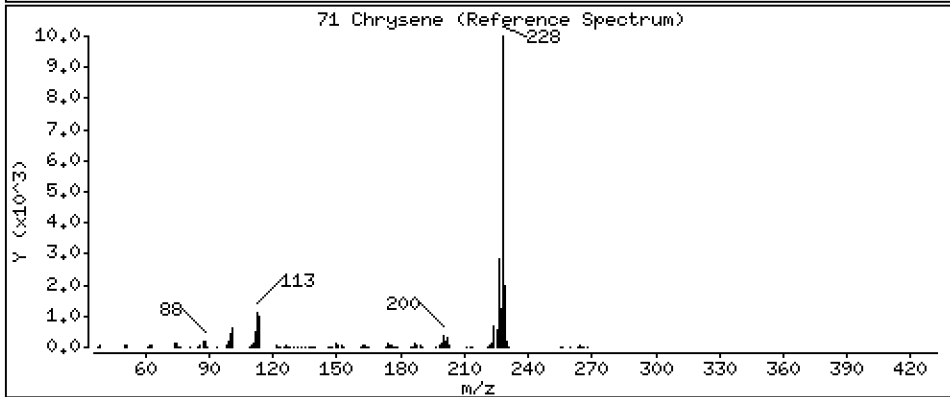
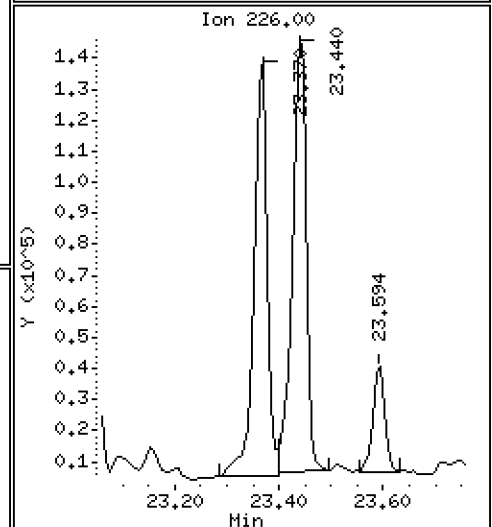
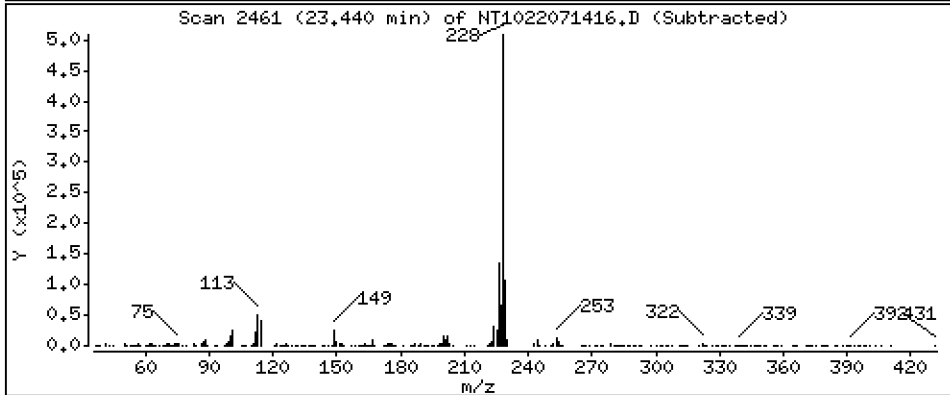
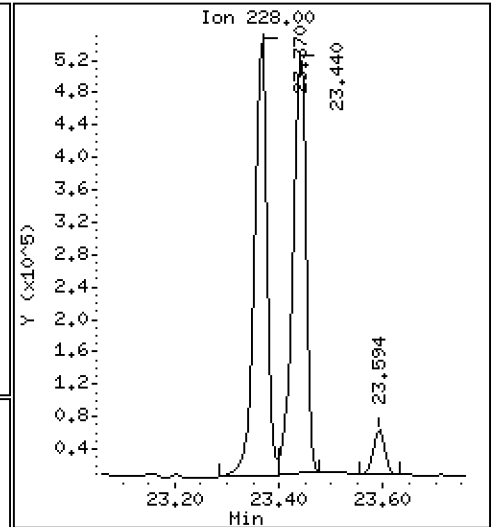
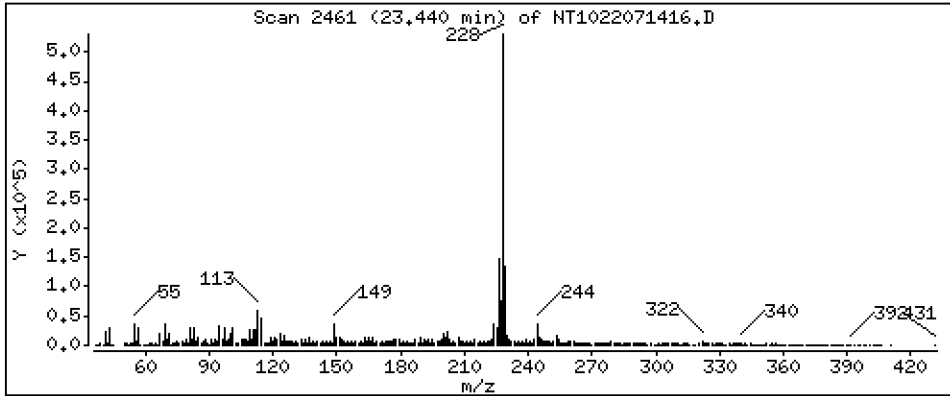
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 11,06 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

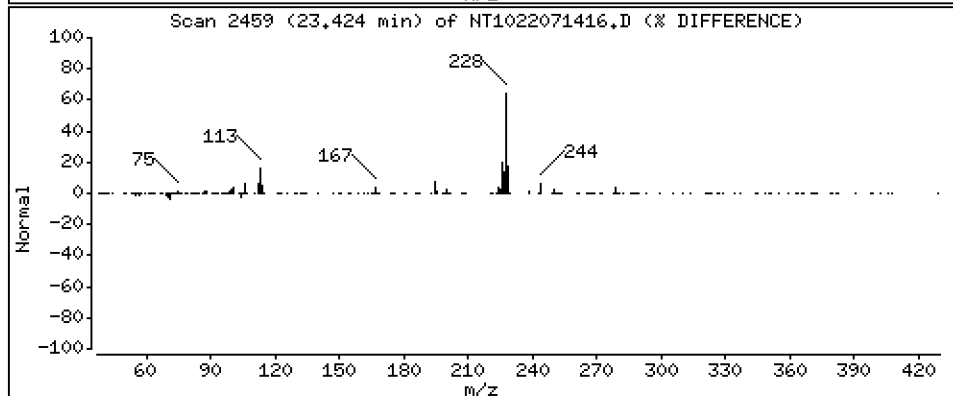
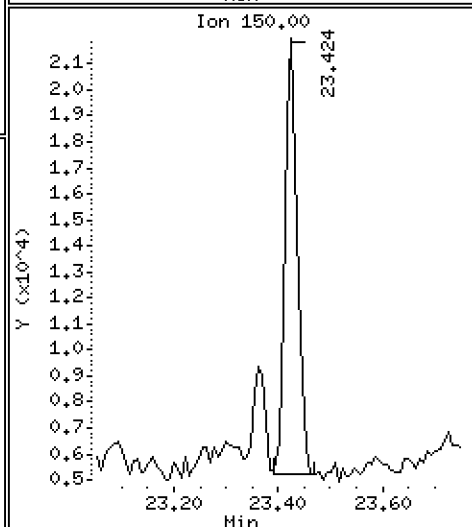
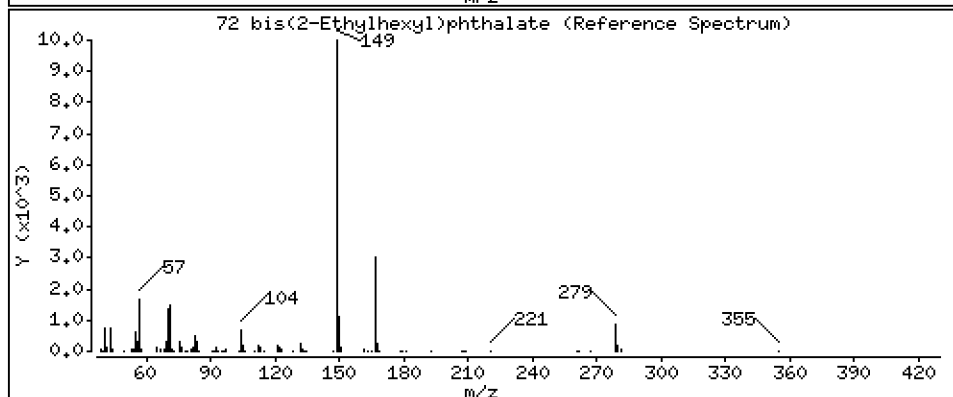
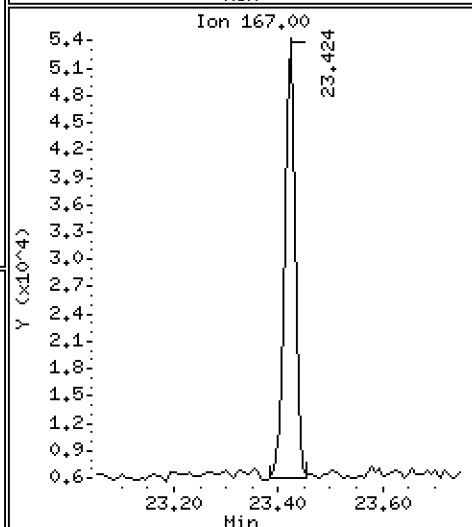
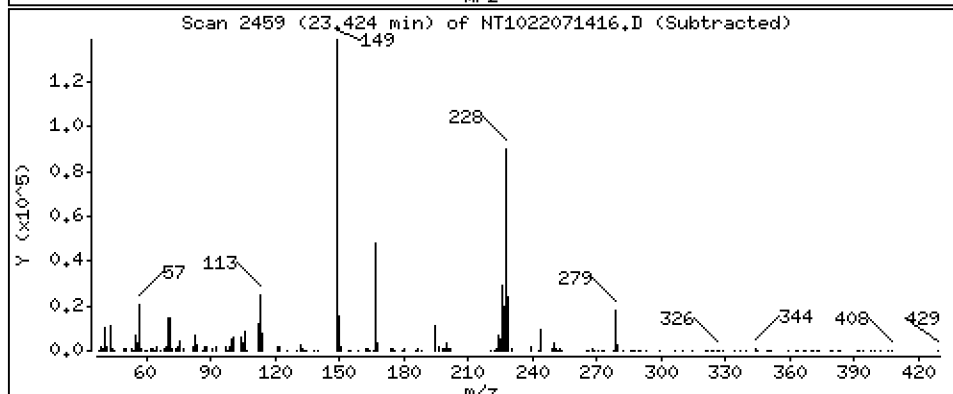
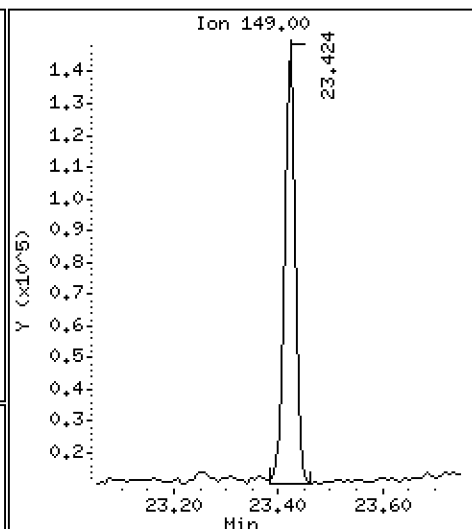
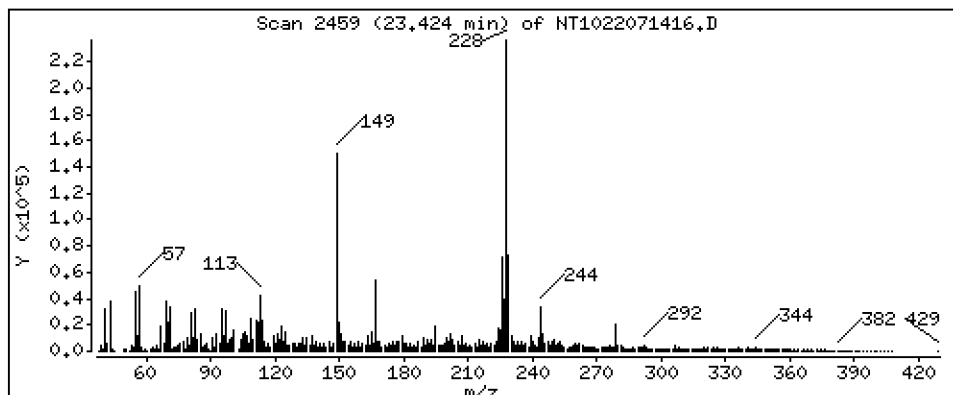
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,837 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

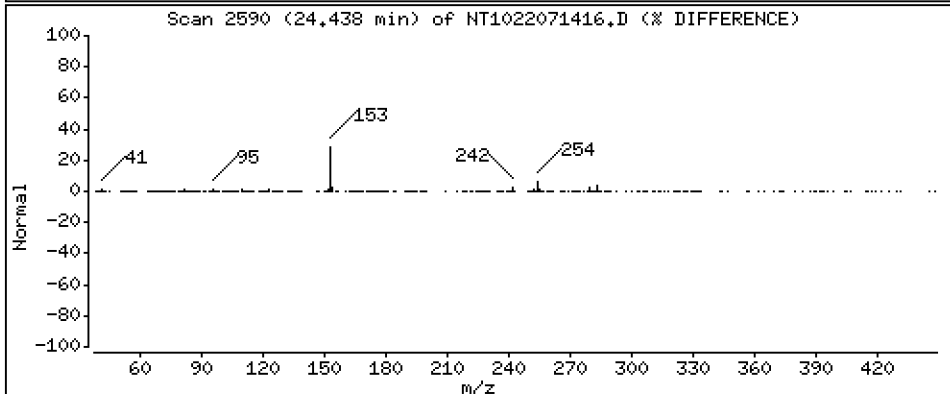
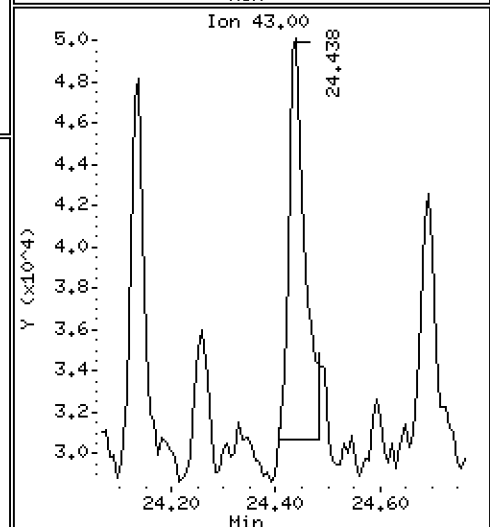
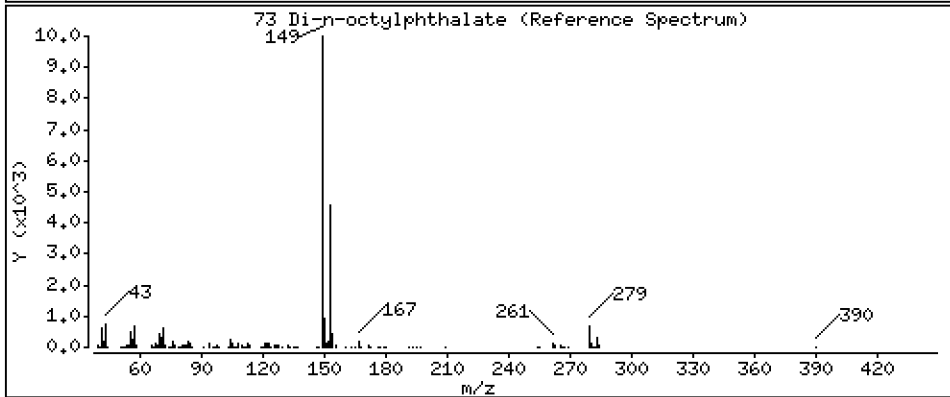
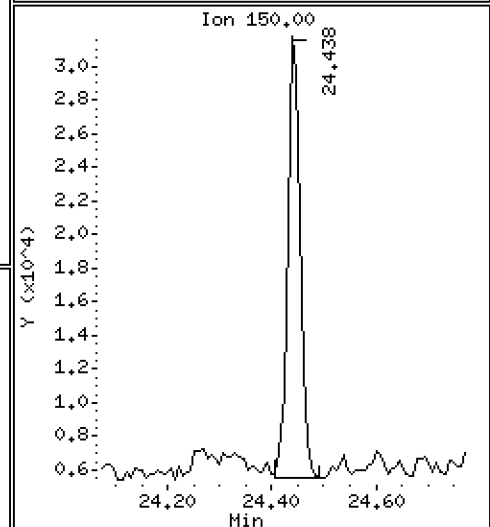
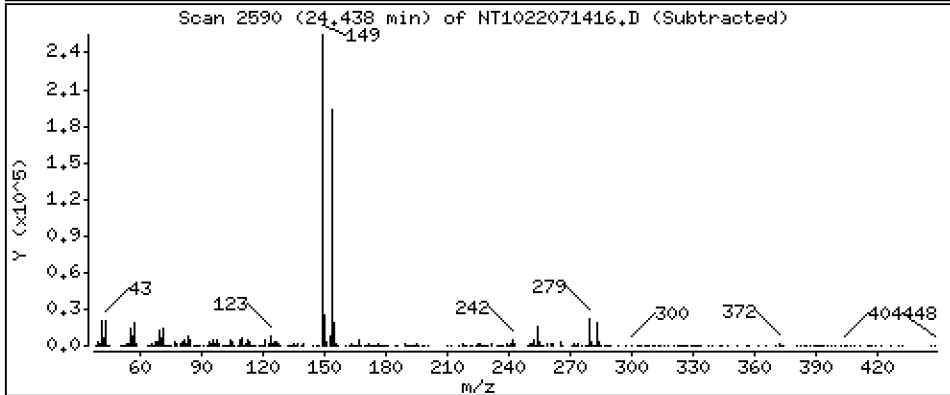
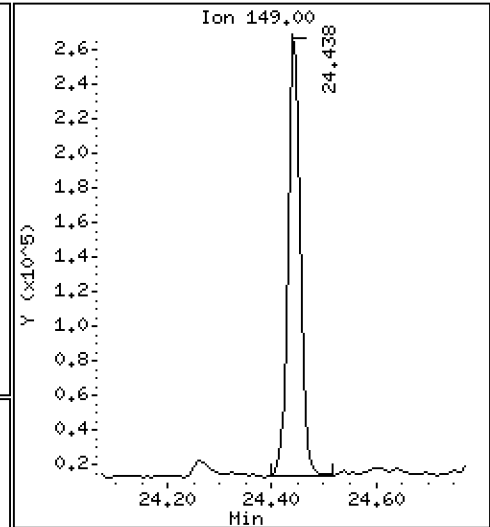
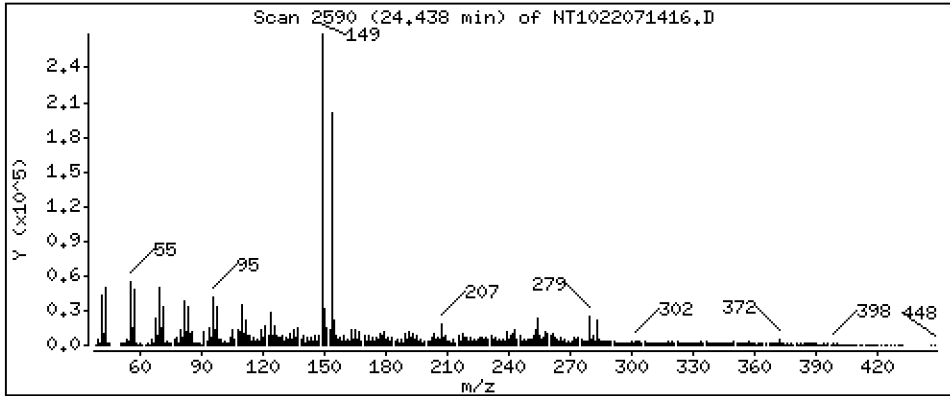
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,922 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

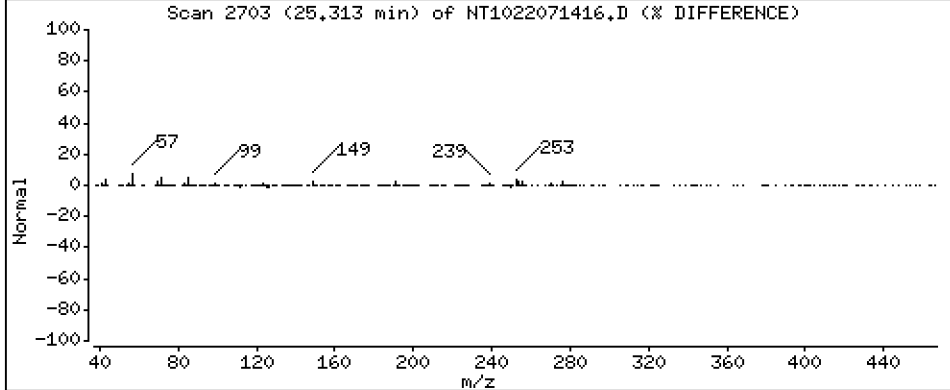
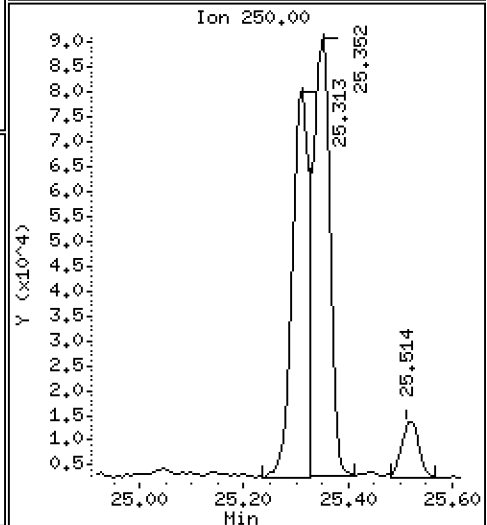
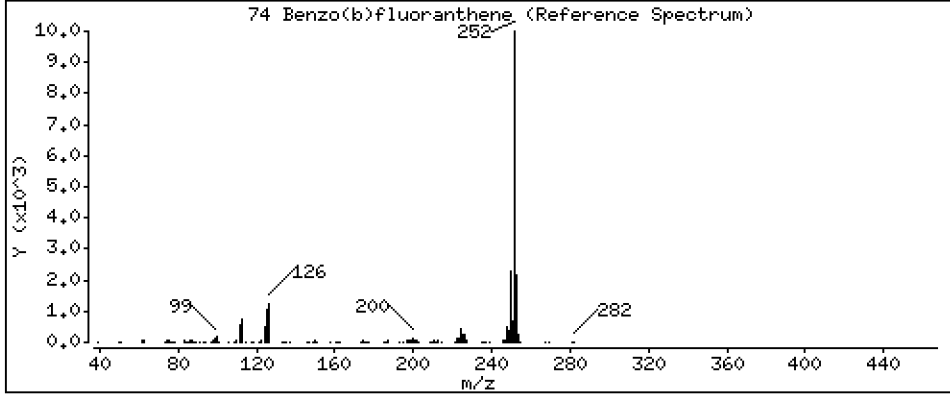
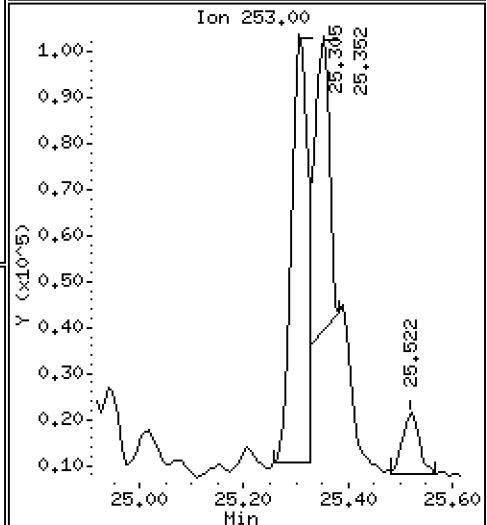
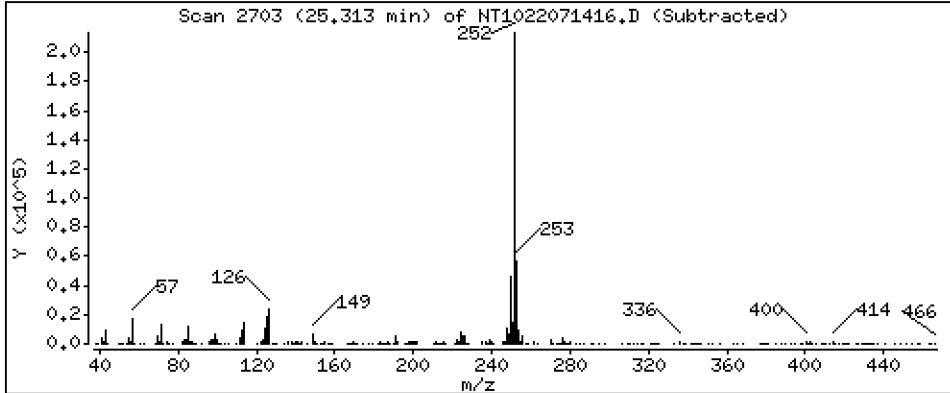
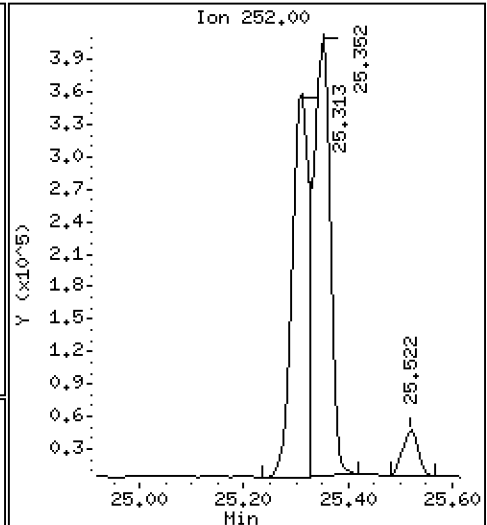
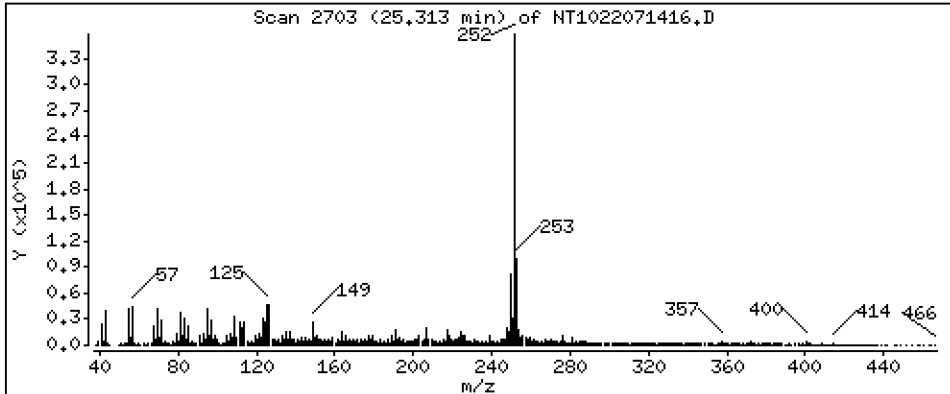
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 6,651 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

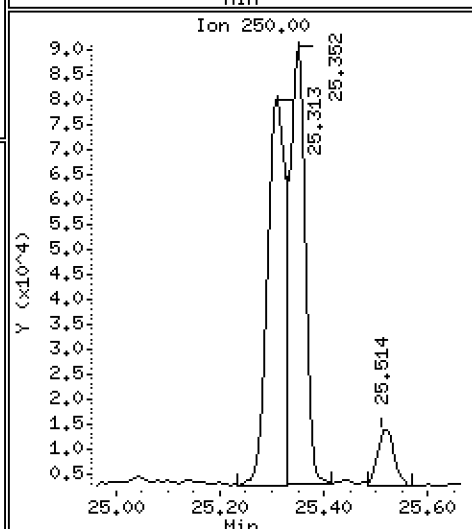
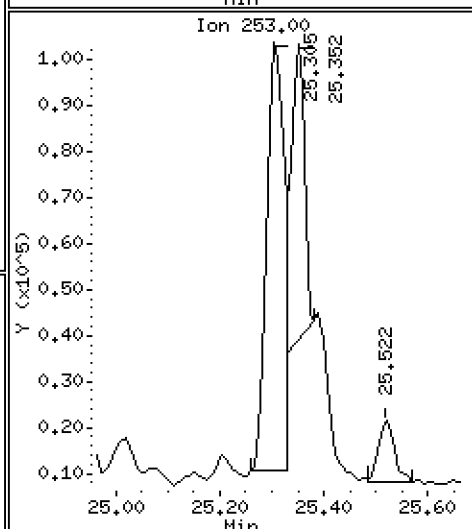
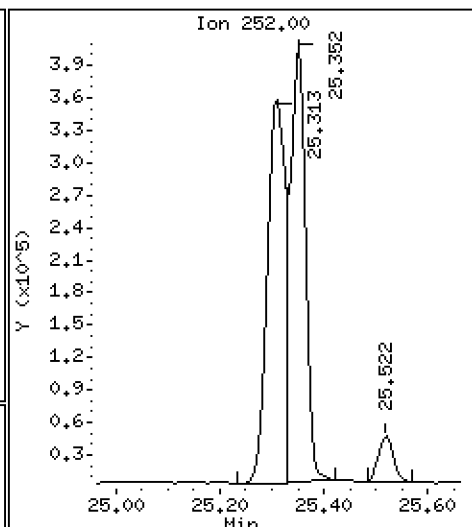
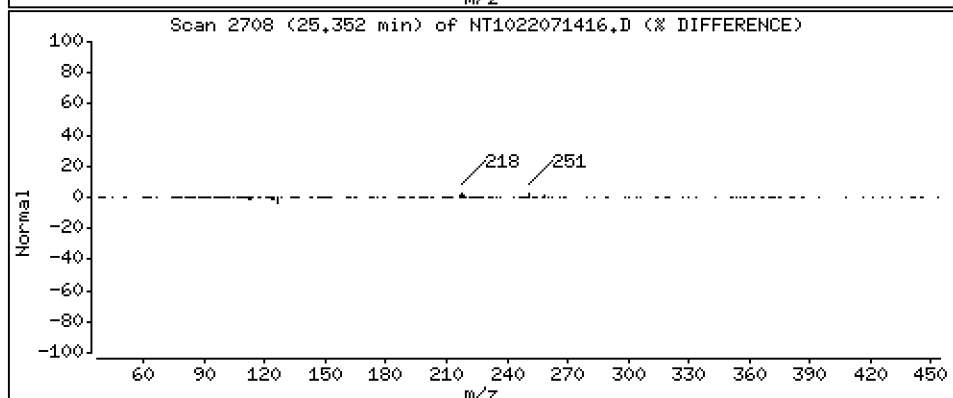
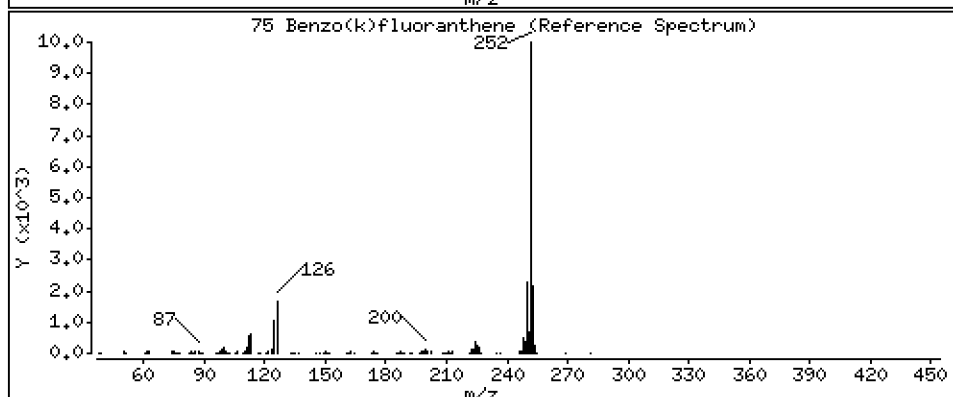
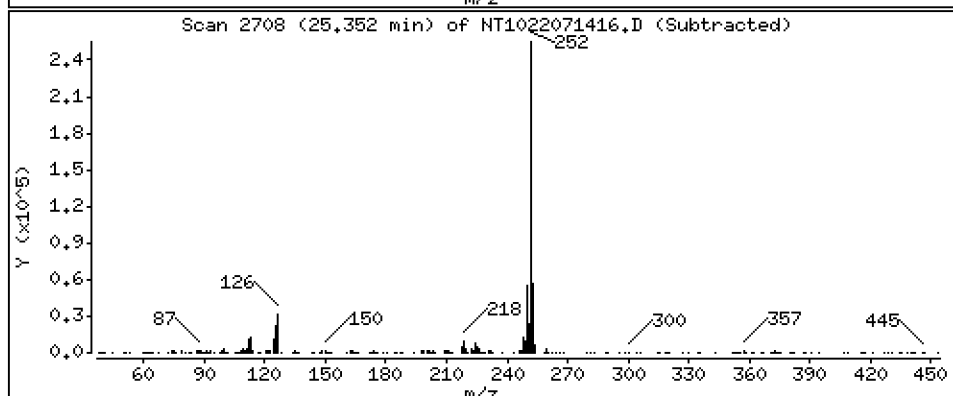
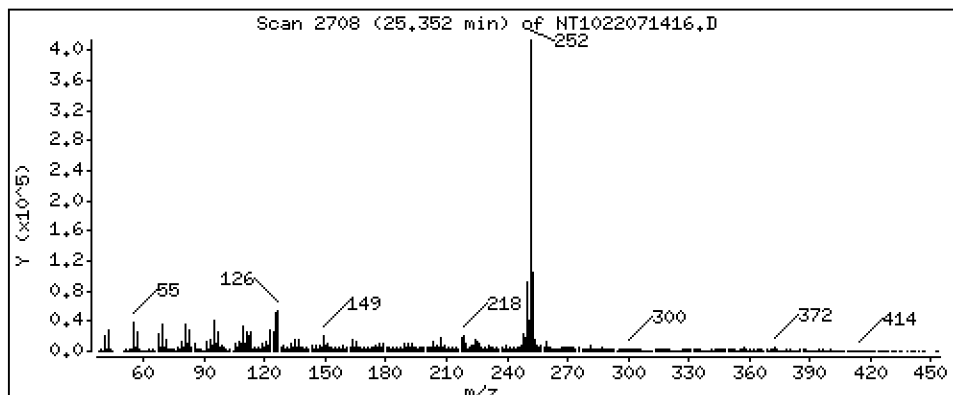
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 7,429 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

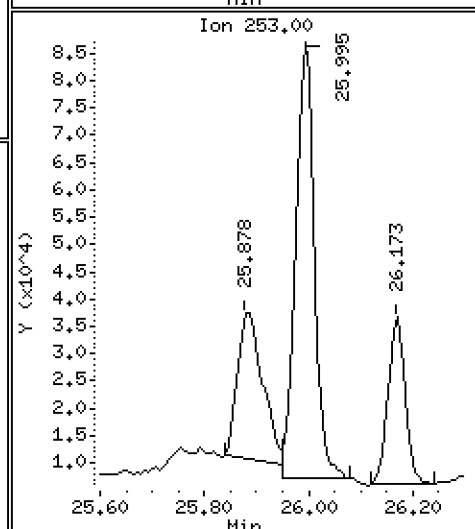
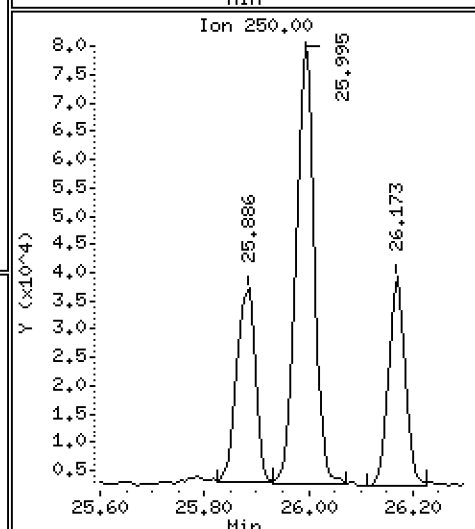
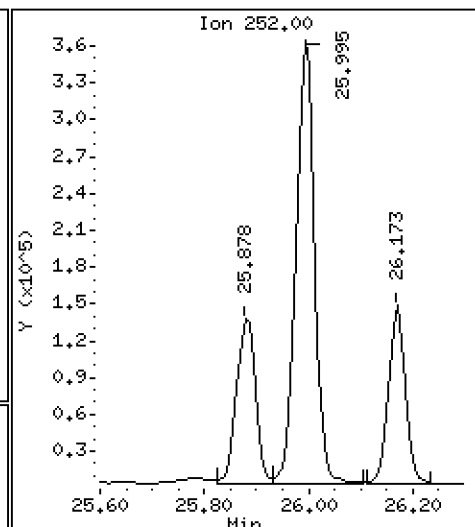
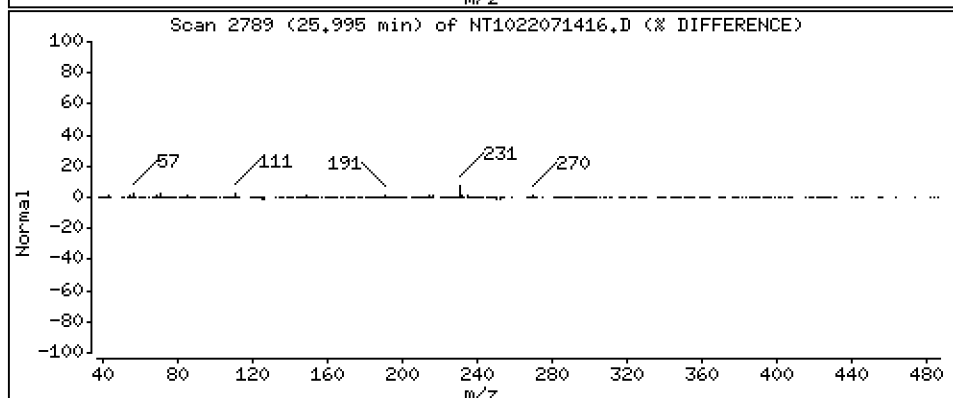
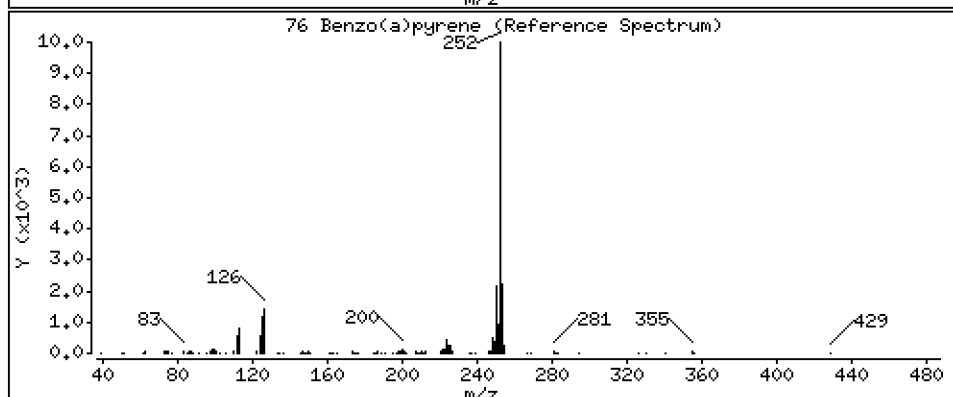
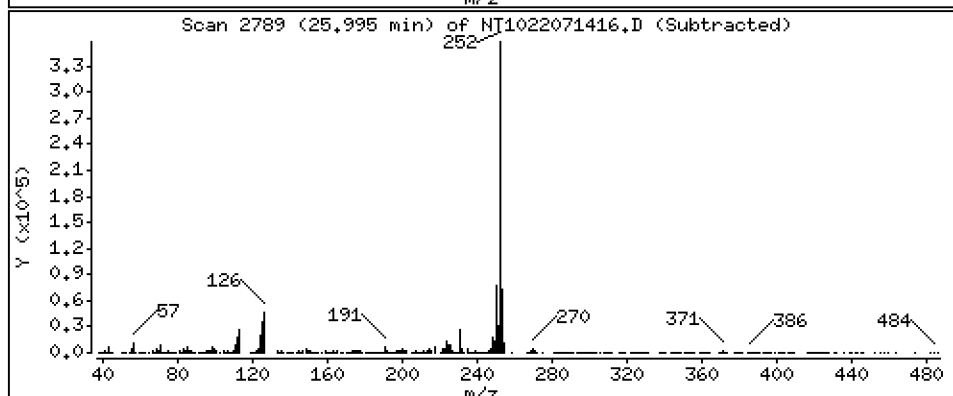
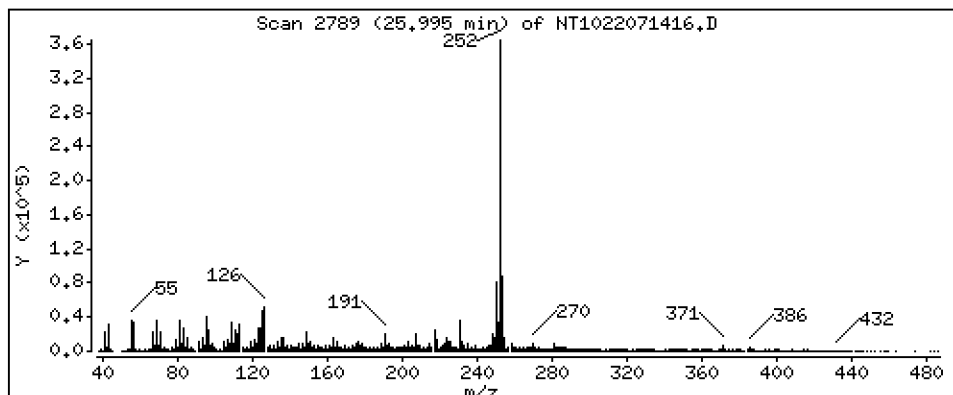
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 8,661 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

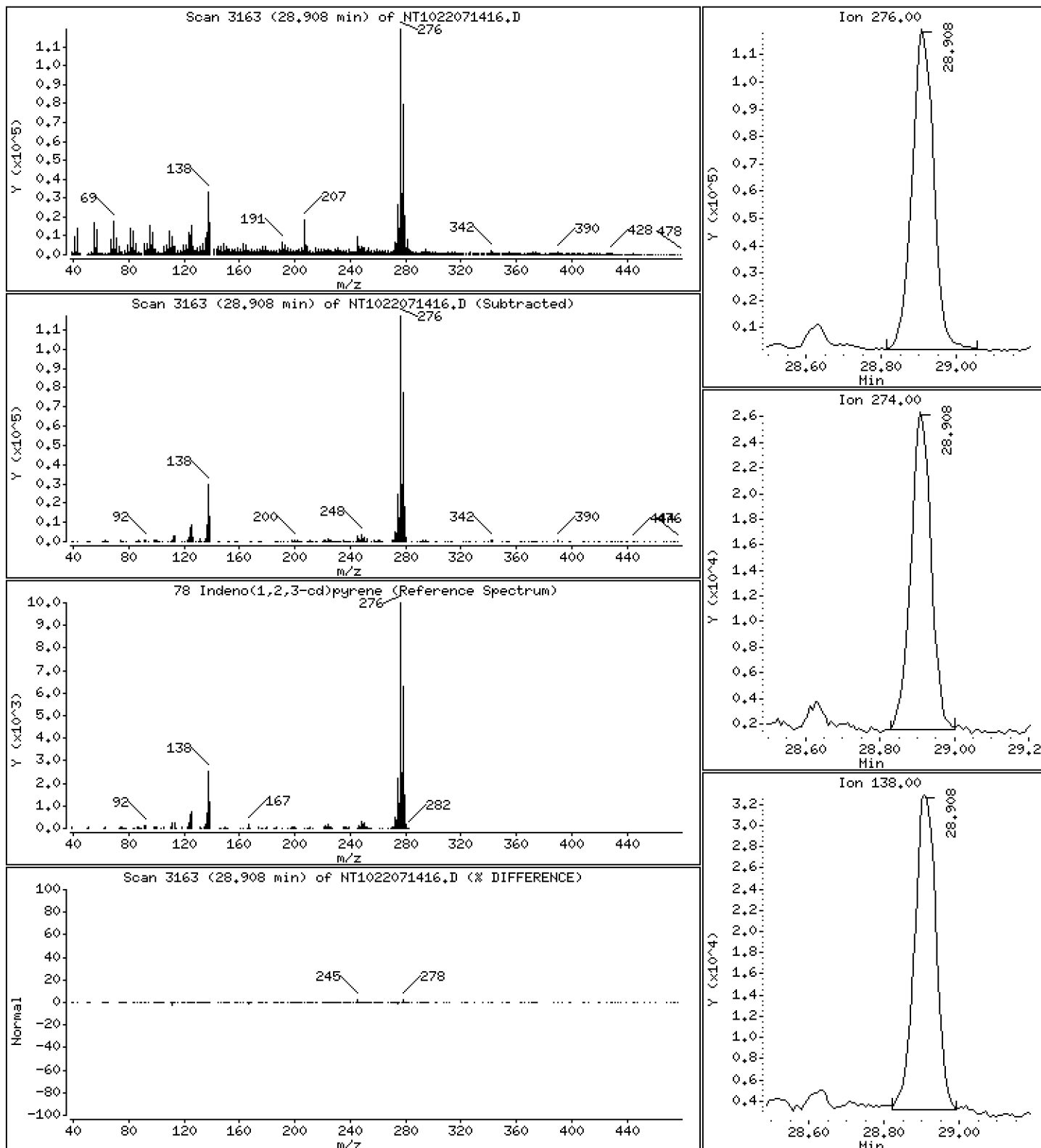
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,154 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

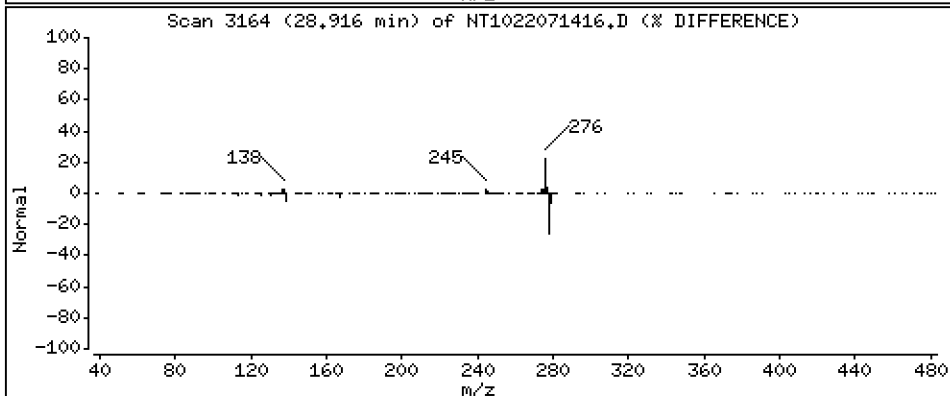
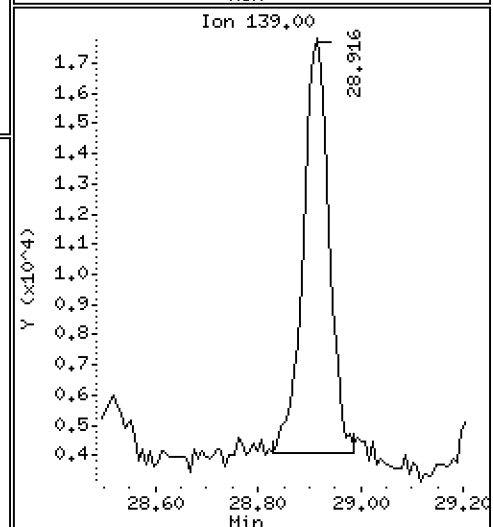
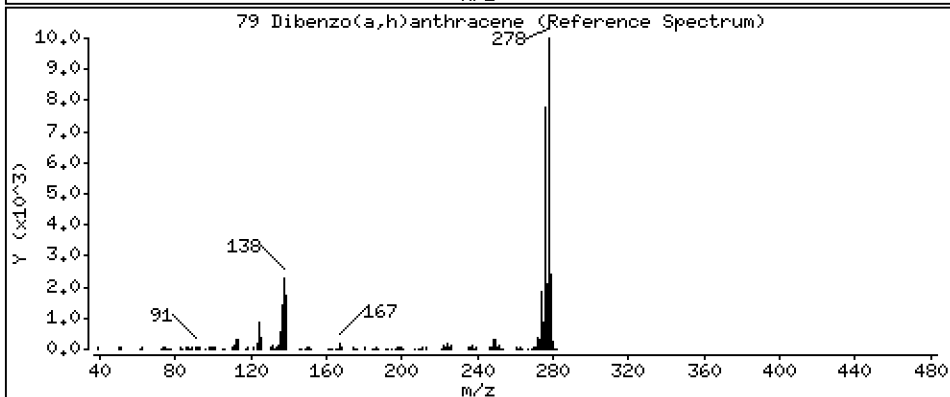
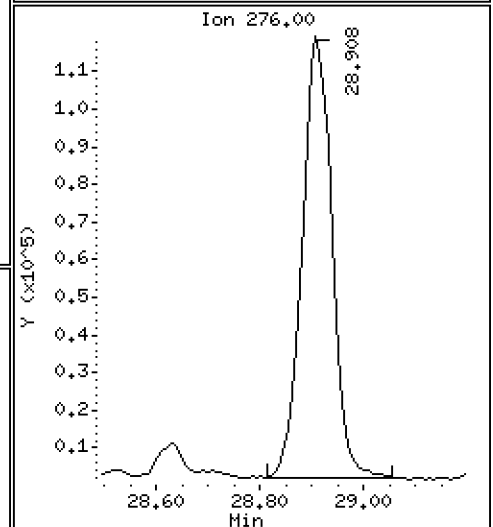
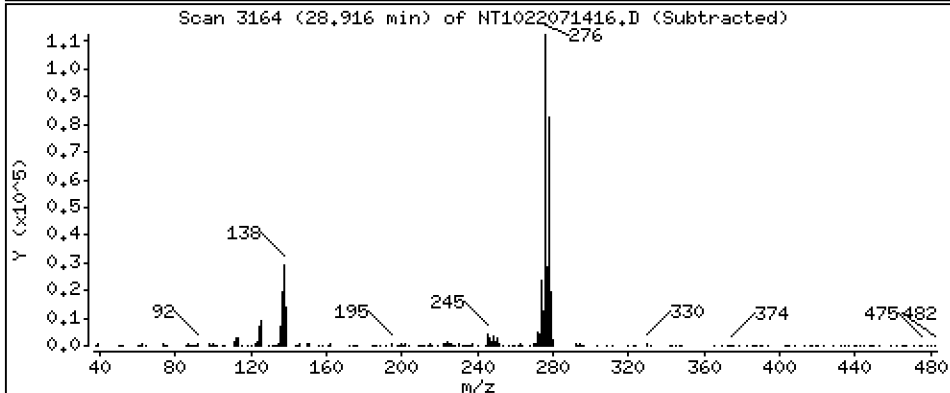
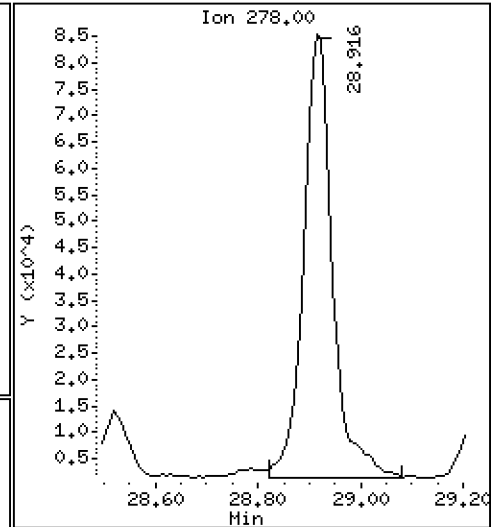
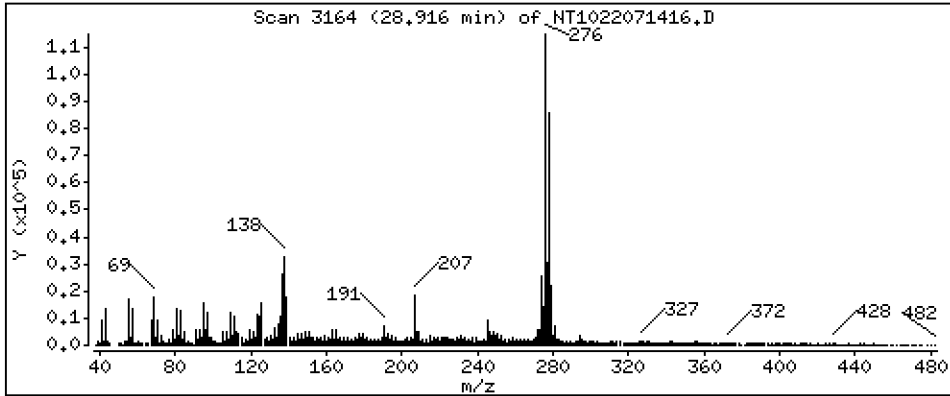
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 3,870 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

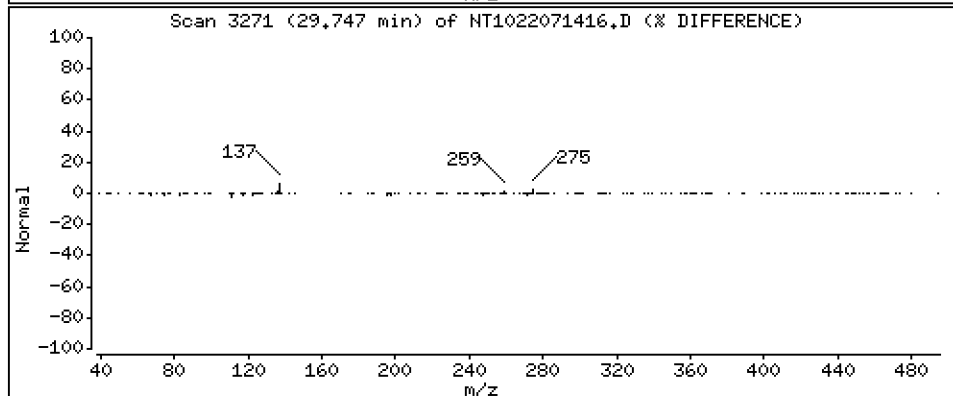
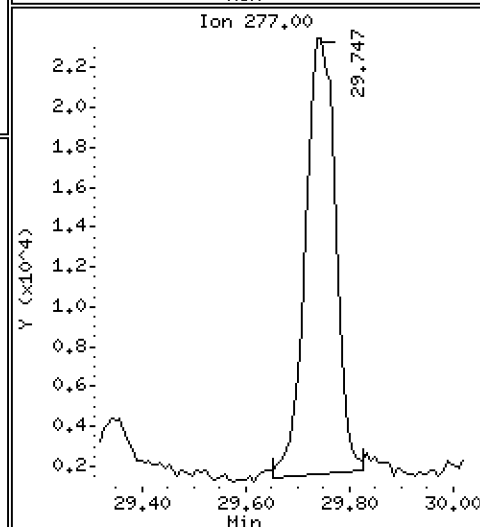
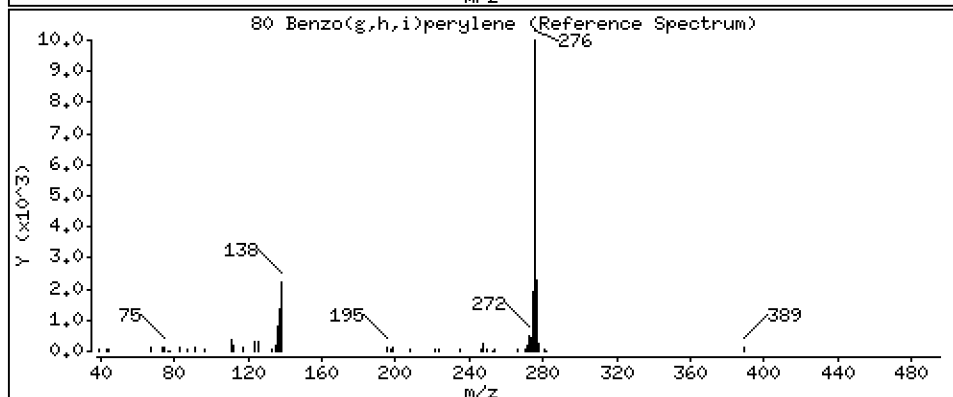
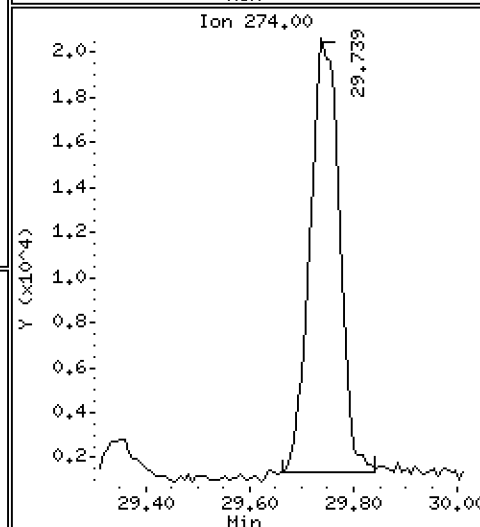
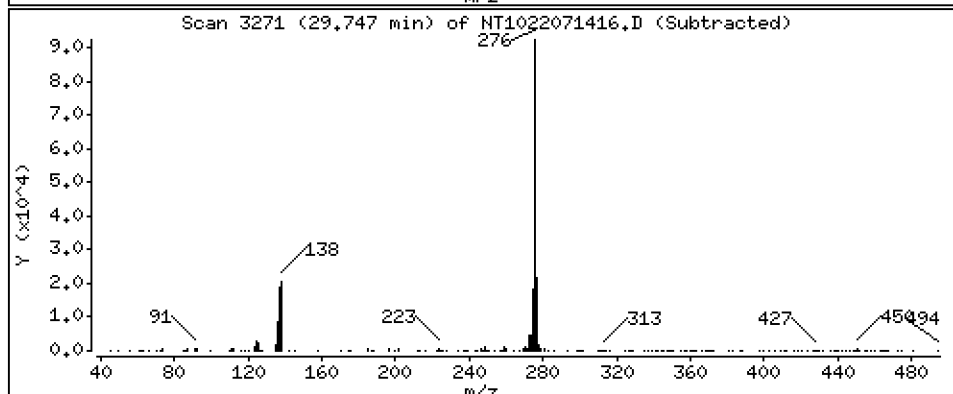
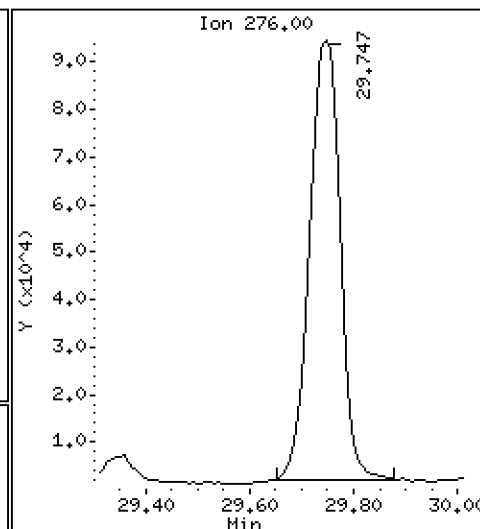
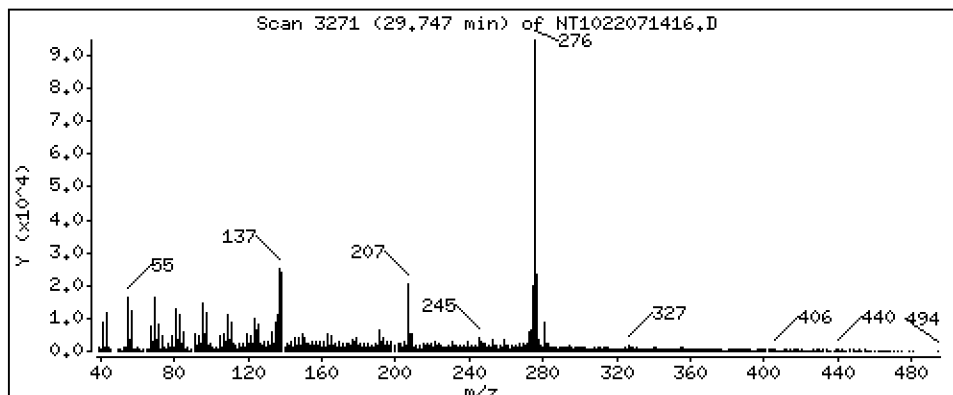
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,207 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

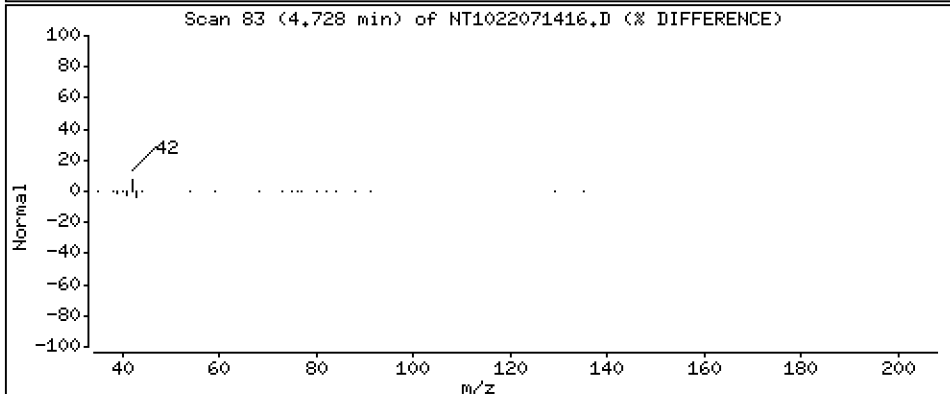
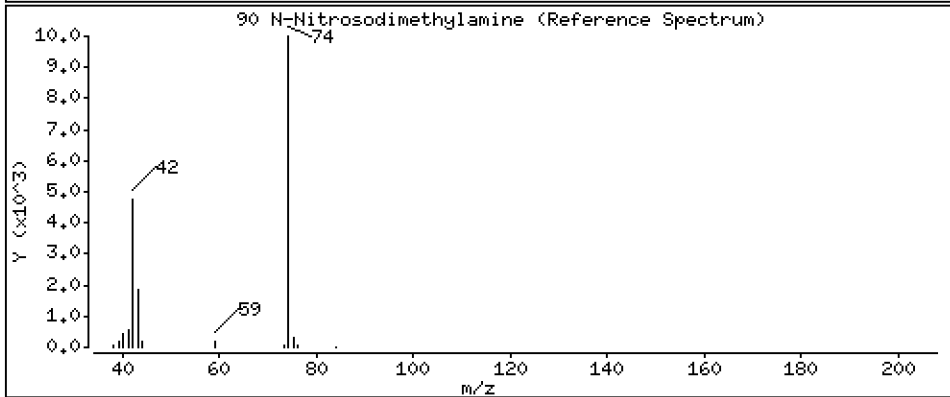
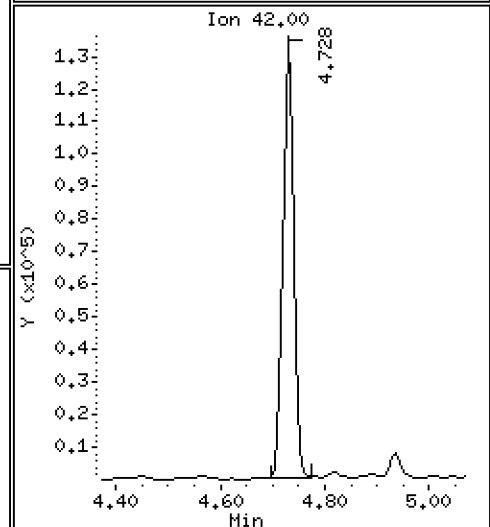
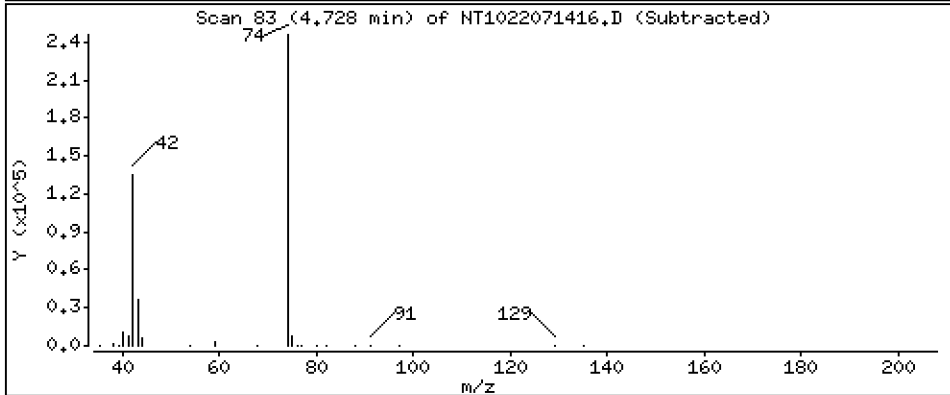
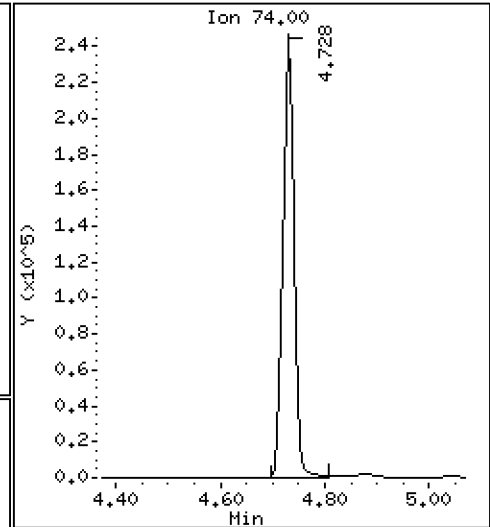
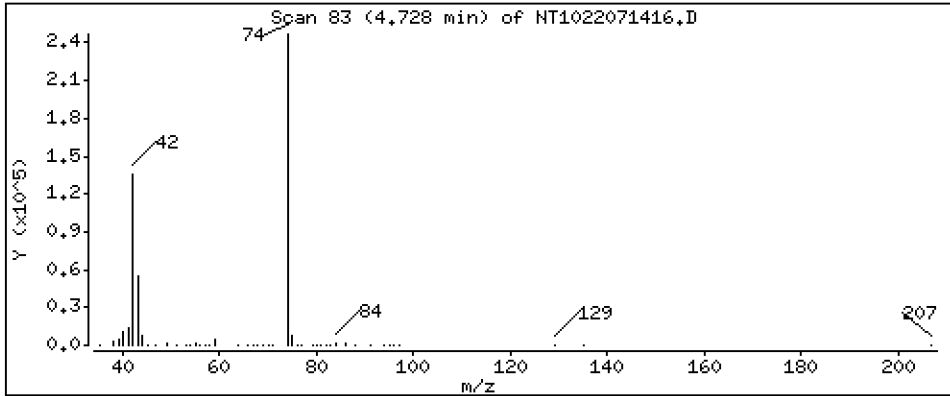
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 10,19 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

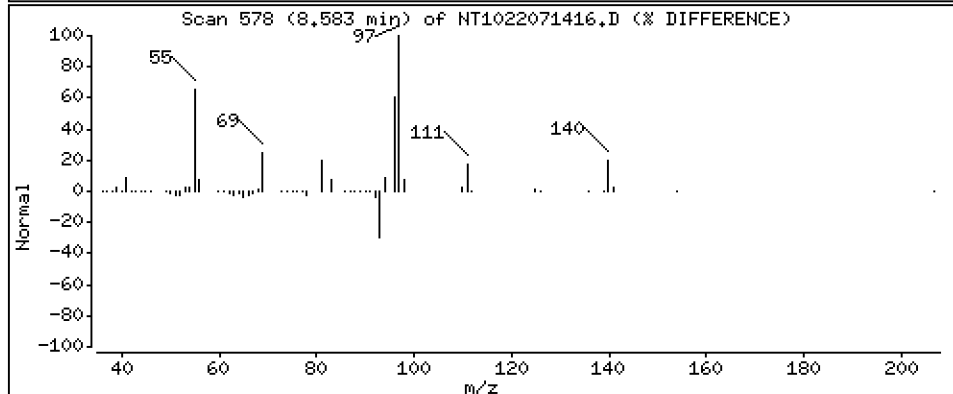
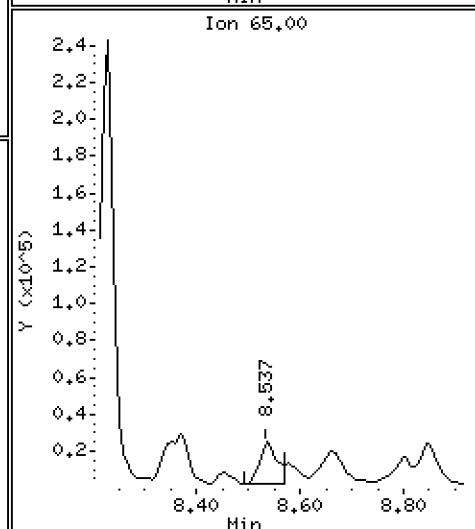
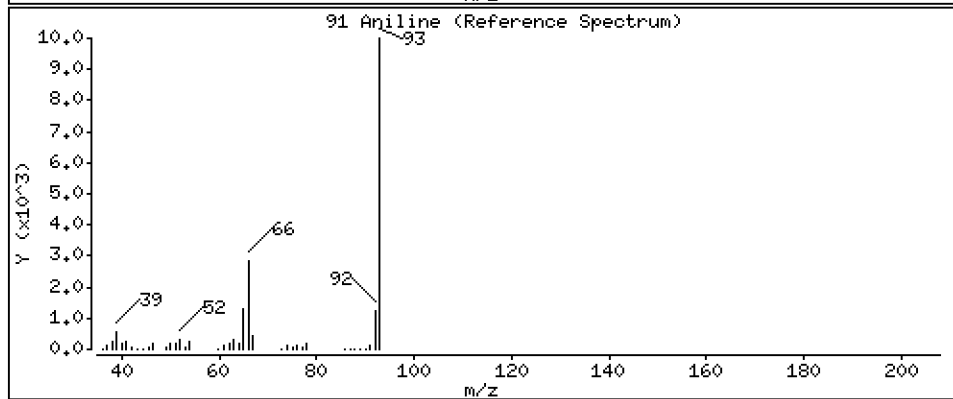
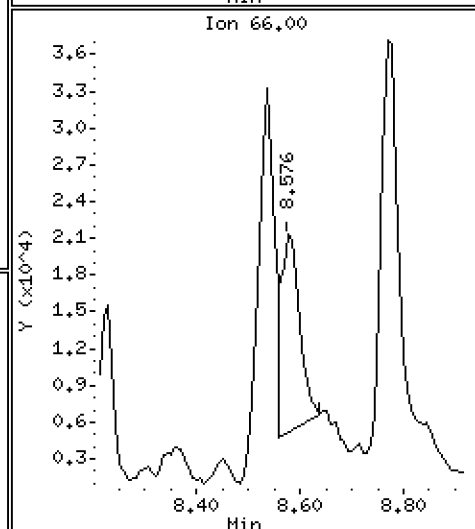
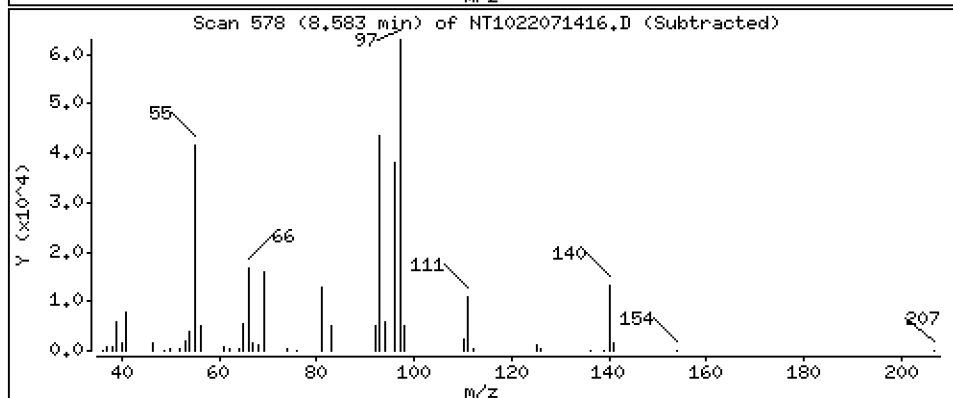
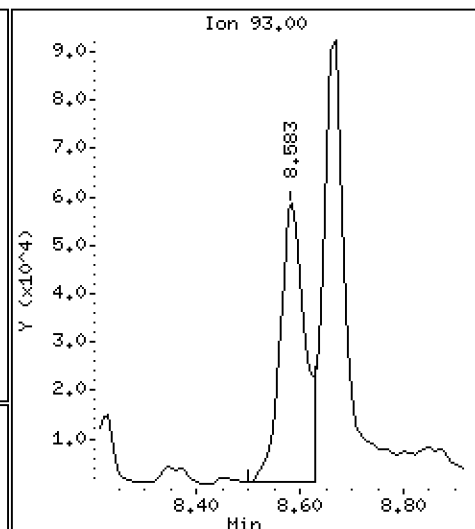
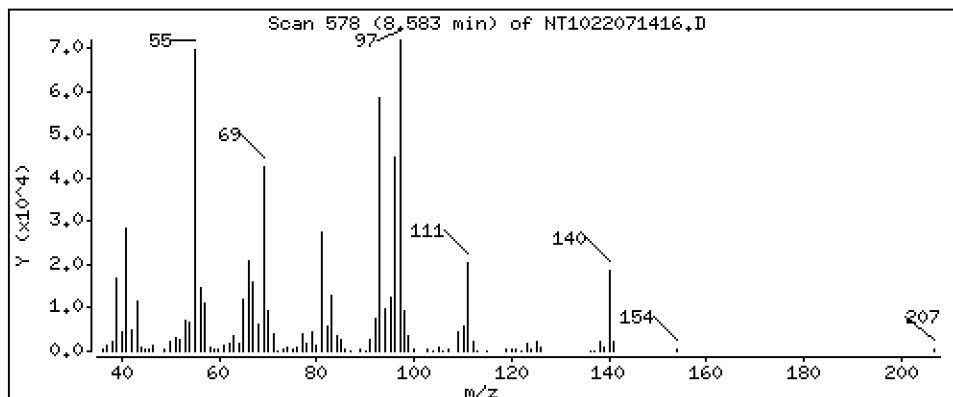
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 2,789 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

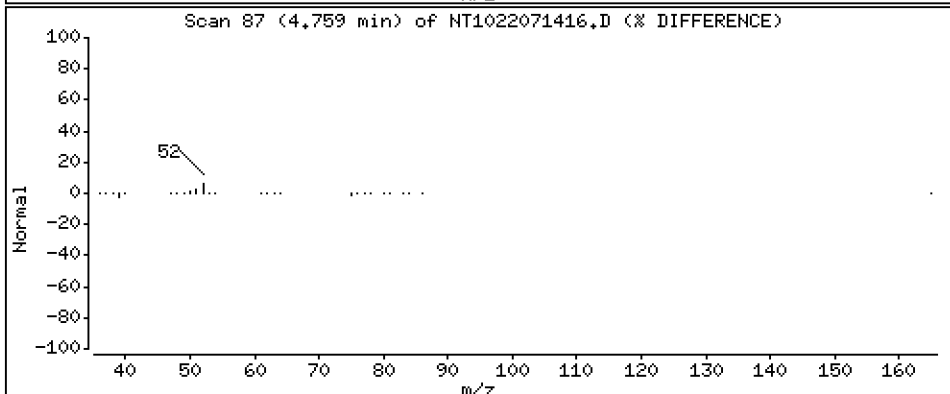
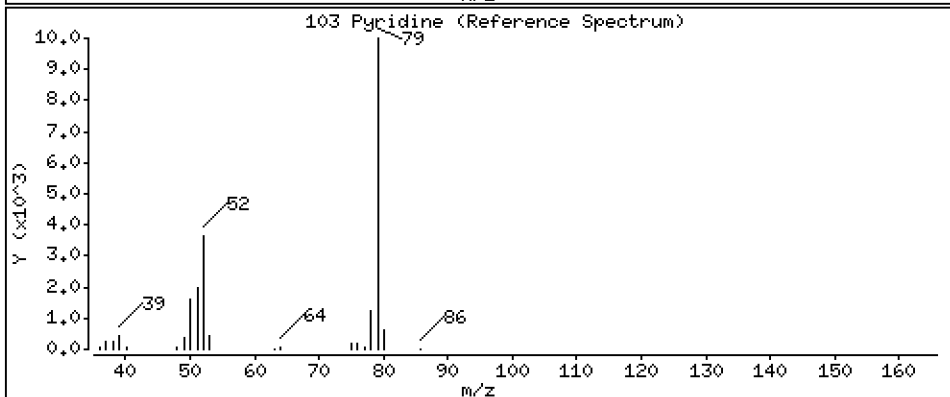
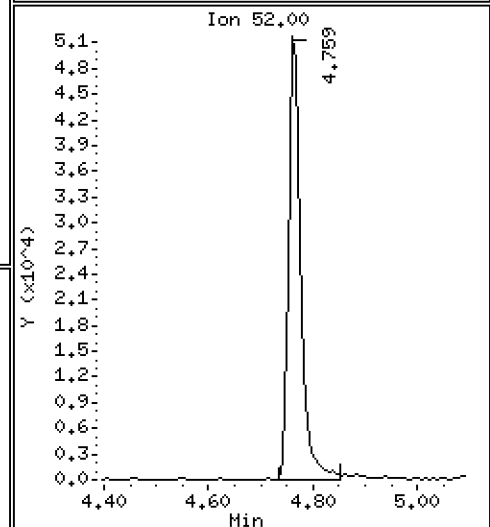
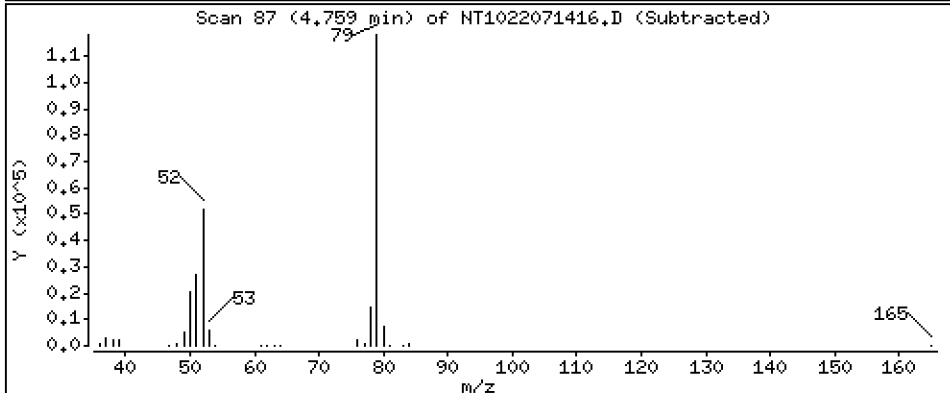
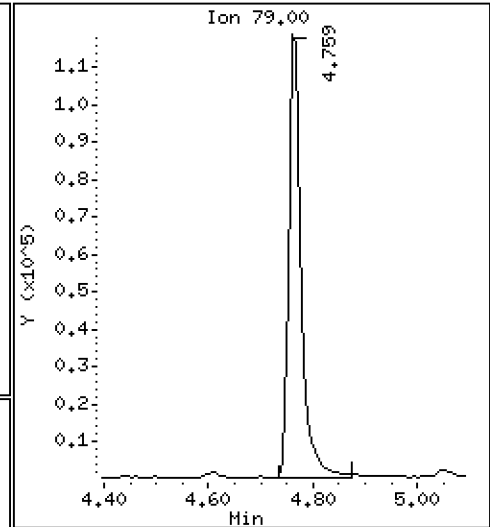
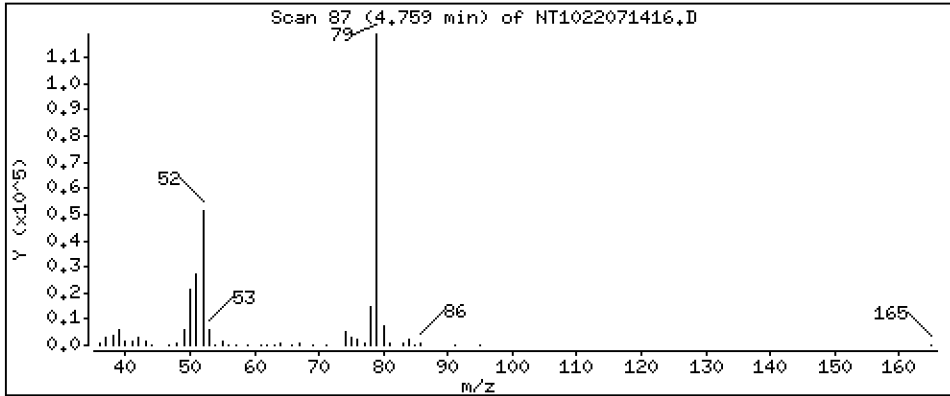
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,019 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

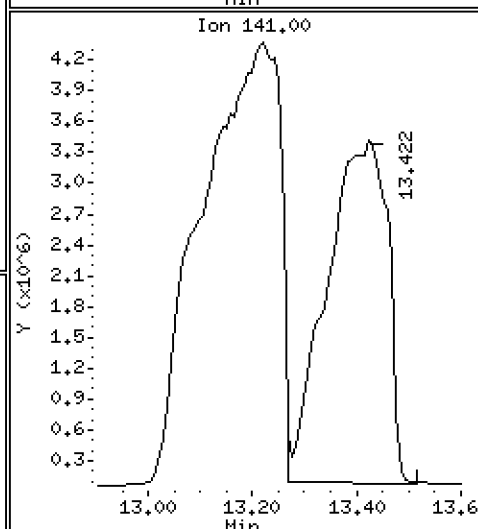
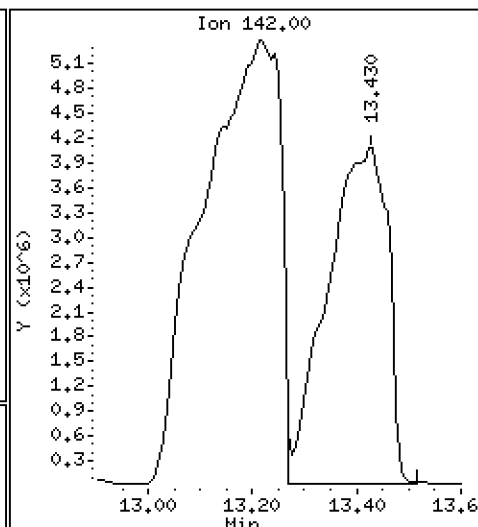
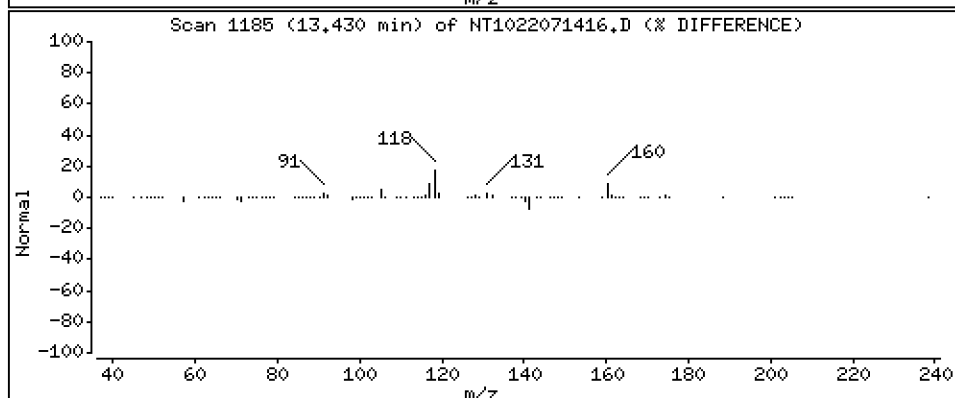
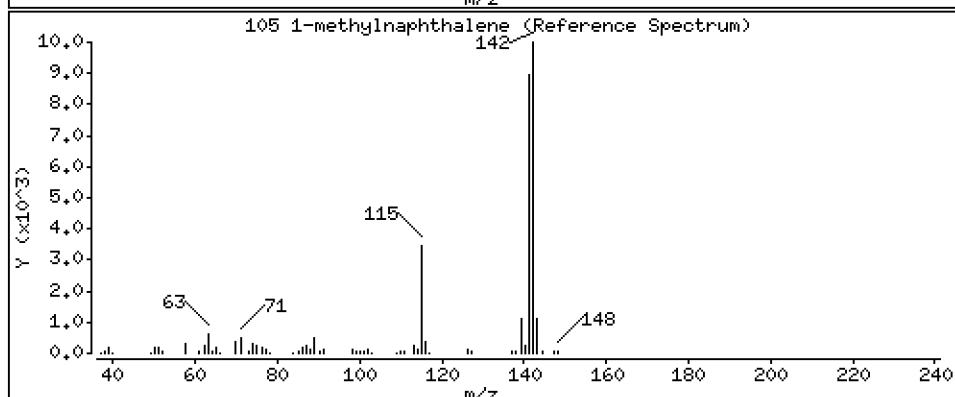
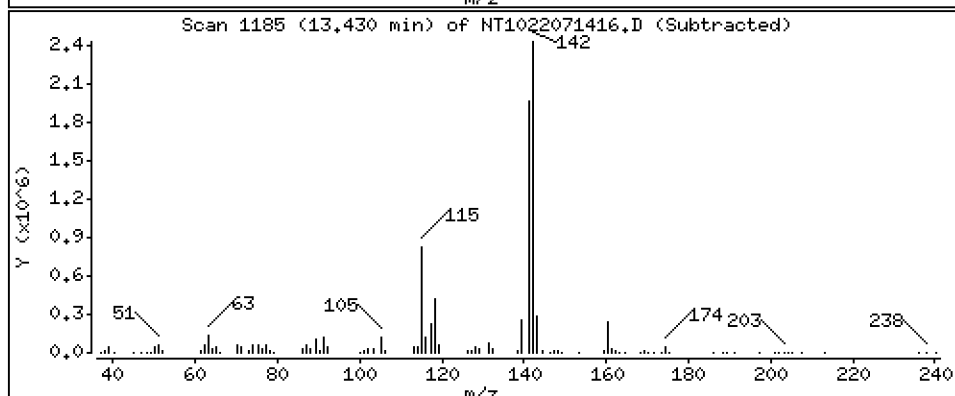
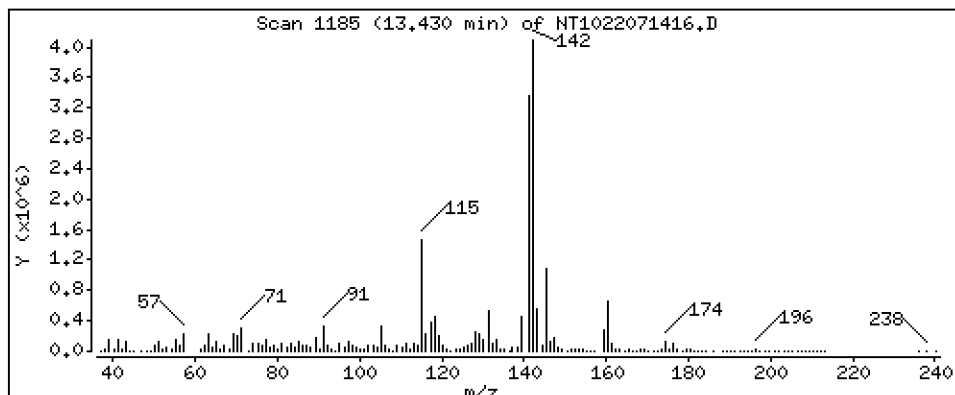
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 315,9 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

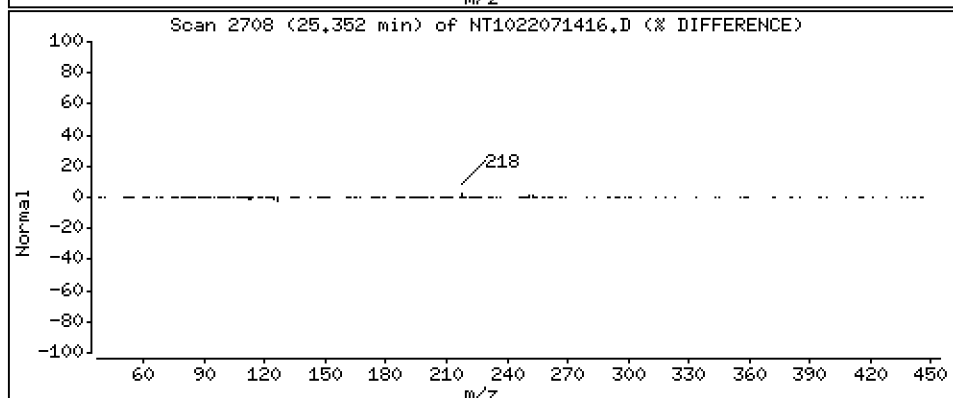
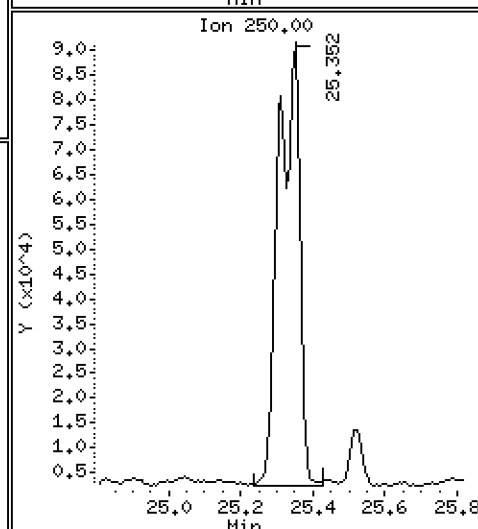
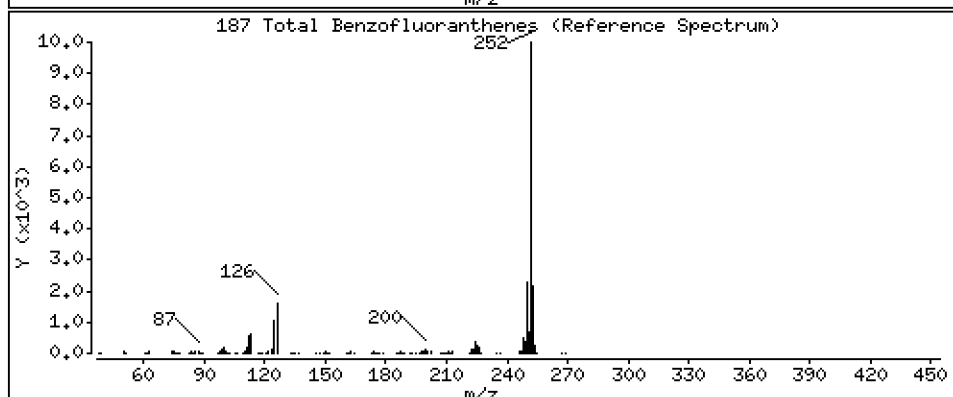
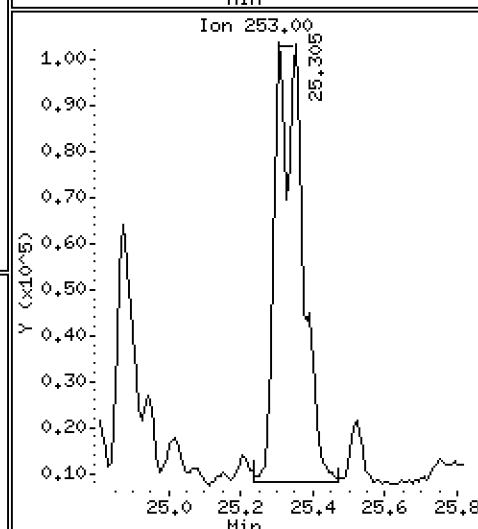
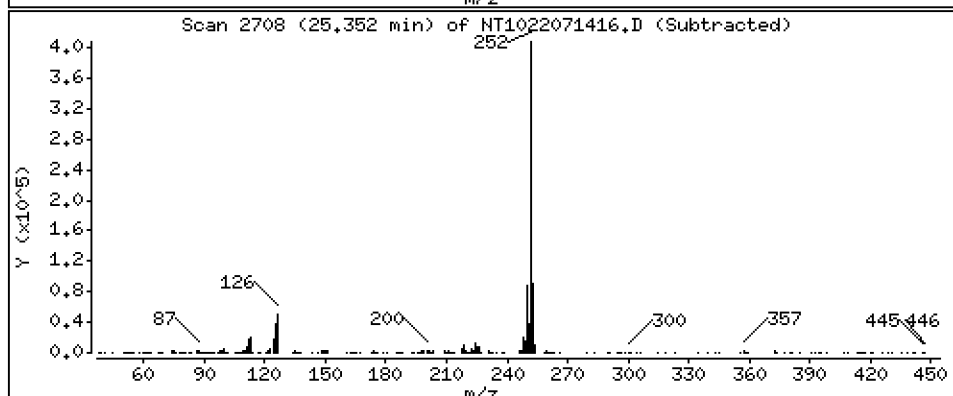
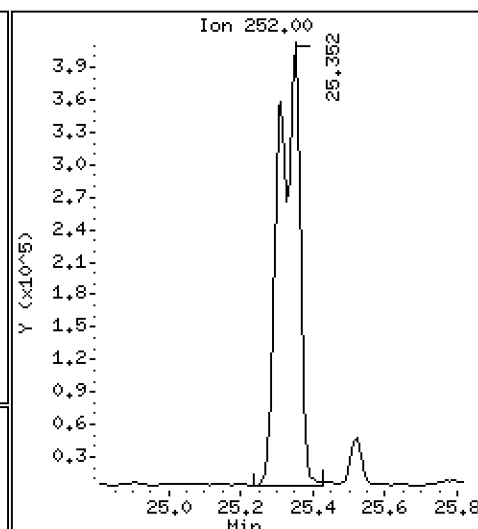
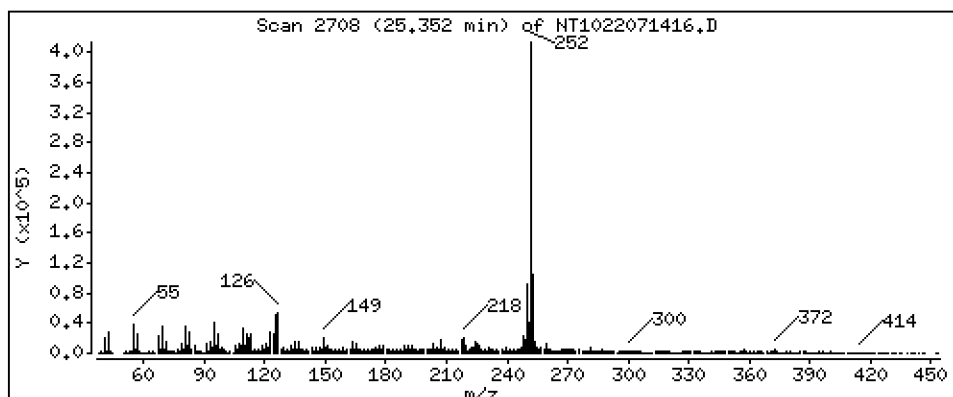
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 13,89 ug/mL



Date : 14-JUL-2022 23:27

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MS1

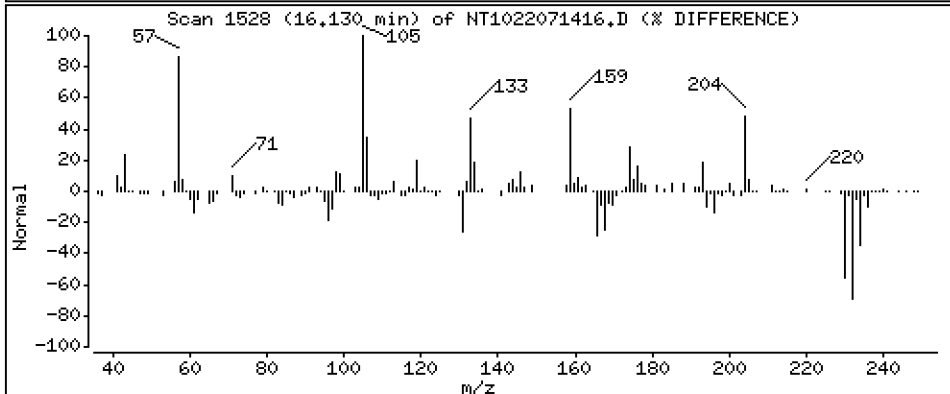
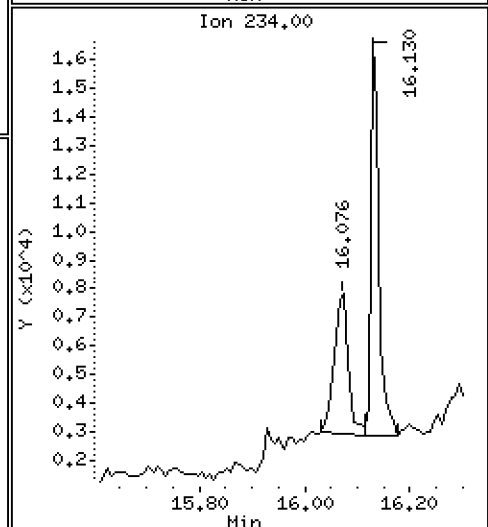
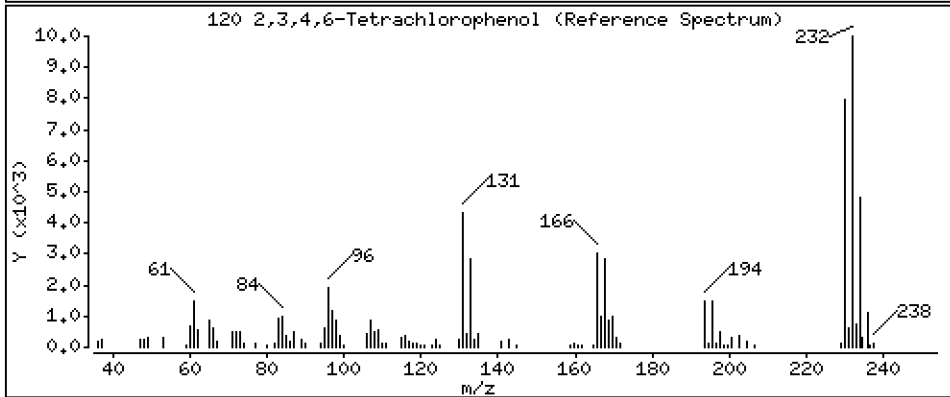
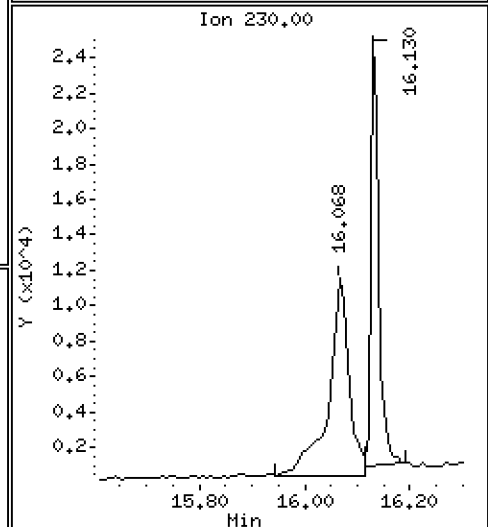
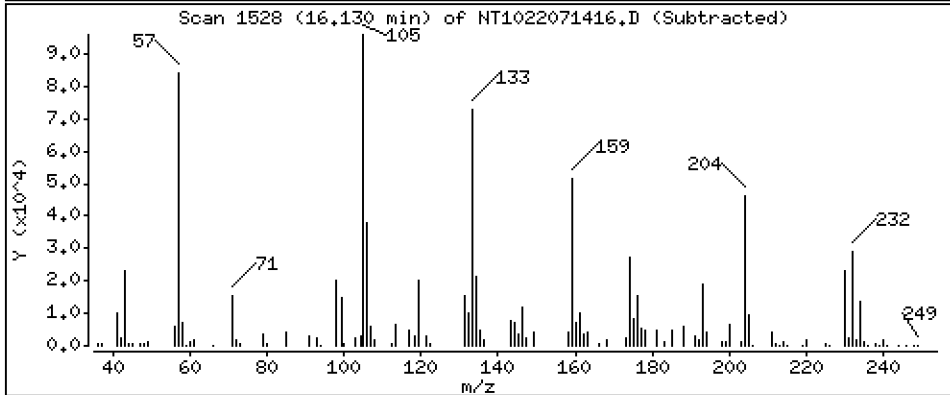
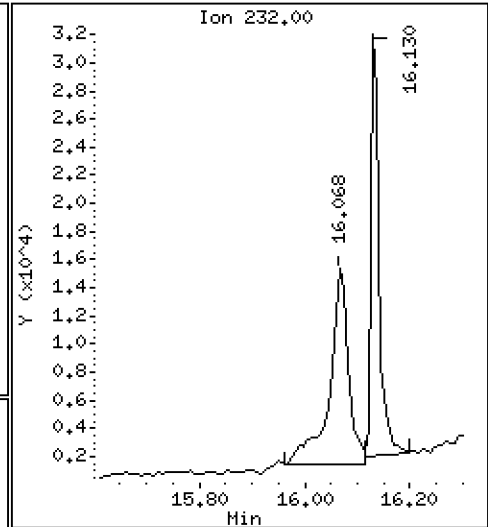
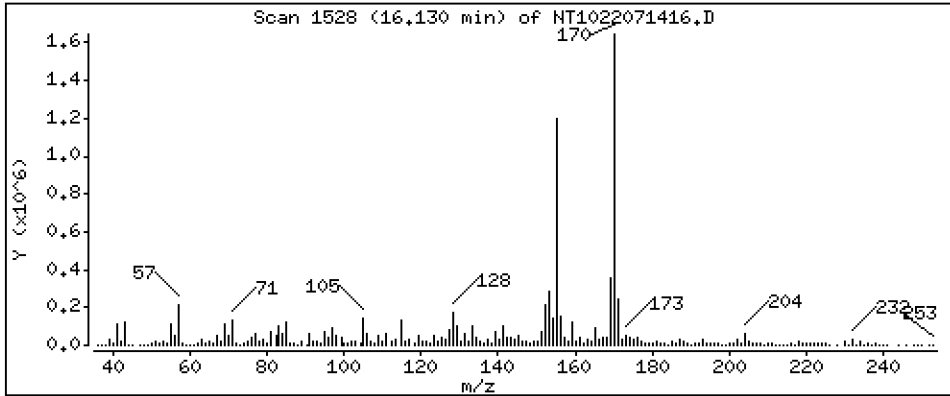
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 1,787 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071416.D
 Lab Smp Id: BKG0069-MS1
 Inj Date : 14-JUL-2022 23:27
 Operator : VTS
 Smp Info : BKG0069-MS1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 14-Jul-2022 14:47 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.922	6.906	(0.759)	348022	6.53504	6.535
\$ 2 Phenol-d5	99		8.513	8.490	(0.933)	405470	5.13133	5.131
3 Phenol	94		8.536	8.513	(0.936)	230604	3.34911	3.349
\$ 5 2-Chlorophenol-d4	132		8.776	8.753	(0.962)	446842	8.23469	8.235
4 Bis(2-Chloroethyl)ether	93		8.668	8.645	(0.950)	221436	4.46856	4.469
6 2-Chlorophenol	128		8.799	8.776	(0.964)	248030	4.51836	4.518
7 1,3-Dichlorobenzene	146		9.055	9.039	(0.992)	244661	4.12076	4.121
* 8 1,4-Dichlorobenzene-d4	152		9.124	9.101	(1.000)	145842	4.00000	
9 1,4-Dichlorobenzene	146		9.155	9.132	(1.003)	248410	5.30780	5.308
\$ 10 1,2-Dichlorobenzene-d4	152		9.481	9.466	(1.039)	163654	4.89438	4.894 (M)
12 1,2-Dichlorobenzene	146		9.512	9.489	(1.043)	214886	4.32513	4.325
11 Benzyl alcohol	108		9.411	9.380	(1.031)	123177	4.49074	4.491
14 2,2'-oxybis(1-Chloropropane)	121		9.699	9.668	(1.063)	69395	5.90618	5.906
13 2-Methylphenol	108		9.644	9.613	(1.057)	158736	3.73906	3.739
17 Hexachloroethane	117		10.095	10.079	(1.106)	38717	1.85582	1.856 (M)
16 N-Nitroso-di-n-propylamine	70		9.955	9.924	(1.091)	99078	3.35572	3.356 (M)
15 4-Methylphenol	108		9.924	9.885	(1.088)	167181	3.68487	3.685
\$ 18 Nitrobenzene-d5	82		10.234	10.195	(0.880)	146285	3.27904	3.279
19 Nitrobenzene	77		10.258	10.227	(0.882)	406896	9.04927	9.049
20 Isophorone	82		10.708	10.677	(0.921)	223242	3.43204	3.432
21 2-Nitrophenol	139		10.893	10.859	(0.937)	66521	2.34221	2.342
22 2,4-Dimethylphenol	107		10.961	10.927	(0.943)	416790	12.0804	12.08
23 Bis(2-Chloroethoxy)methane	93		11.156	11.106	(0.960)	209160	5.35212	5.352
24 Benzoic acid	105		11.165	11.165	(0.960)	322626	17.5722	17.57
25 2,4-Dichlorophenol	162		11.377	11.335	(0.978)	435431	12.4179	12.42
26 1,2,4-Trichlorobenzene	180		11.542	11.504	(0.993)	138085	3.66878	3.669 (M)
* 27 Naphthalene-d8	136		11.627	11.589	(1.000)	419262	4.00000	(M)
28 Naphthalene	128		11.666	11.627	(1.003)	5916444	55.1381	55.14 (M)
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		12.021	11.990	(1.034)	80402	4.47784	4.478
31 4-Chloro-3-methylphenol	107		12.888	12.749	(1.108)	318063	7.55300	7.553 (H)
32 2-Methylnaphthalene	142		13.213	13.027	(1.136)	55035132	516.068	516.1 (M)
33 Hexachlorocyclopentadiene	237		13.623	13.492	(0.887)	224	0.01864	0.01864

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.840	13.662	(0.901)	390107	16.2772	16.28 (M)	
35 2,4,5-Trichlorophenol	196		14.103	13.755	(0.918)	231468	8.10057	8.101 (M)	
§ 36 2-Fluorobiphenyl	172		13.948	13.809	(0.908)	438667	4.59690	4.597	
37 2-Chloronaphthalene	162		14.335	14.026	(0.933)	675436	8.02908	8.029 (M)	
38 2-Nitroaniline	65		14.490	14.289	(0.944)	25521	1.13415	1.134 (M)	
39 Dimethylphthalate	163		14.885	14.714	(0.969)	113985	1.54136	1.541	
40 Acenaphthylene	152		15.094	14.900	(0.983)	498303	4.04244	4.042	
41 2,6-Dinitrotoluene	165		15.032	14.862	(0.979)	155850	9.07421	9.074	
* 42 Acenaphthene-d10	164		15.356	15.210	(1.000)	210875	4.00000		
43 3-Nitroaniline	138		15.279	15.156	(0.995)	178198	8.81354	8.814 (M)	
44 Acenaphthene	153		15.434	15.279	(1.005)	2850937	46.4866	46.49	
45 2,4-Dinitrophenol	184		Compound Not Detected.						
46 Dibenzofuran	168		15.766	15.612	(1.027)	1148478	11.7835	11.78	
47 4-Nitrophenol	109		Compound Not Detected.						
48 2,4-Dinitrotoluene	165		15.913	15.681	(1.036)	432370	18.8353	18.84	
50 Diethylphthalate	149		16.300	16.176	(1.061)	132144	2.08306	2.083	
49 Fluorene	166		16.485	16.323	(1.073)	3255481	27.9537	27.95	
51 4-Chlorophenyl-phenylether	204		16.446	16.323	(1.071)	97269	1.90191	1.902	
52 4-Nitroaniline	138		16.570	16.439	(1.079)	90701	4.47890	4.479	
53 4,6-Dinitro-2-methylphenol	198		Compound Not Detected.						
54 N-Nitrosodiphenylamine	169		16.593	16.570	(0.903)	993557	26.8134	26.81 (M)	
§ 55 2,4,6-Tribromophenol	330		17.009	16.870	(1.108)	45891	4.79516	4.795	
56 4-Bromophenyl-phenylether	248		17.426	17.318	(0.949)	53197	3.09860	3.099	
57 Hexachlorobenzene	284		17.813	17.642	(0.970)	73195	4.64873	4.649	
58 Pentachlorophenol	266		18.145	18.022	(0.988)	115510	28.0292	28.03	
* 59 Phenanthrene-d10	188		18.370	18.269	(1.000)	235654	4.00000		
60 Phenanthrene	178		18.455	18.316	(1.005)	10429209	168.455	168.5	
61 Anthracene	178		18.517	18.416	(1.008)	1113634	16.8794	16.88	
62 Carbazole	167		18.842	18.757	(1.026)	383532	6.30123	6.301	
63 Di-n-butylphthalate	149		19.600	19.546	(1.067)	265773	2.85894	2.859	
64 Fluoranthene	202		20.807	20.722	(0.889)	1936585	9.58550	9.585	
65 Pyrene	202		21.225	21.147	(0.907)	2324581	12.5848	12.58	
§ 66 Terphenyl-d14	244		21.472	21.434	(0.918)	338919	3.65939	3.659	
67 Butylbenzylphthalate	149		22.386	22.363	(0.957)	140327	2.61731	2.617	
68 Benzo(a)anthracene	228		23.369	23.331	(0.999)	956848	8.50827	8.508	
* 69 Chrysene-d12	240		23.393	23.362	(1.000)	265398	4.00000		
70 3,3'-Dichlorobenzidine	252		23.307	23.292	(0.996)	163926	4.47317	4.473	
71 Chrysene	228		23.439	23.408	(1.002)	944664	11.0617	11.06	
72 bis(2-Ethylhexyl)phthalate	149		23.424	23.400	(0.959)	204465	4.83657	4.837	
* 134 Di-n-octylphthalate-d4	153		24.430	24.407	(1.000)	382468	4.00000		
73 Di-n-octylphthalate	149		24.438	24.422	(1.000)	427886	4.92212	4.922	
74 Benzo(b)fluoranthene	252		25.313	25.266	(0.969)	851042	6.65052	6.651	
75 Benzo(k)fluoranthene	252		25.351	25.313	(0.971)	914128	7.42890	7.429	
76 Benzo(a)pyrene	252		25.994	25.948	(0.996)	907132	8.66134	8.661	
* 77 Perylene-d12	264		26.110	26.064	(1.000)	282559	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.907	28.845	(1.107)	464546	4.15422	4.154	
79 Dibenzo(a,h)anthracene	278		28.915	28.853	(1.107)	331287	3.86989	3.870	
80 Benzo(g,h,i)perylene	276		29.746	29.661	(1.139)	376098	4.20741	4.207	
90 N-Nitrosodimethylamine	74		4.728	4.720	(0.518)	354927	10.1863	10.19	
91 Aniline	93		8.583	8.560	(0.941)	192085	2.78928	2.789	
93 Benzidine	184		Compound Not Detected.						
103 Pyridine	79		4.759	4.743	(0.522)	199429	2.01907	2.019	
105 1-methylnaphthalene	142		13.430	13.252	(1.155)	33100146	315.925	315.9 (M)	
111 Azobenzene (1,2-DP-Hydrazine)	77		Compound Not Detected.						

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.351	25.313	(0.971)	1657268	13.8899	13.89
120 2,3,4,6-Tetrachlorophenol	232	16.129	15.959	(1.050)	33135	1.78696	1.787

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071416.D Calibration Time: 14:12
 Lab Smp Id: BKG0069-MS1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	145842	-25.53
27 Naphthalene-d8	626038	313019	1252076	419262	-33.03
42 Acenaphthene-d10	366612	183306	733224	210875	-42.48
59 Phenanthrene-d10	635137	317569	1270274	235654	-62.90
69 Chrysene-d12	270778	135389	541556	265398	-1.99
134 Di-n-octylphthala	507031	253516	1014062	382468	-24.57
77 Perylene-d12	170107	85054	340214	282559	66.11

<-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.12	0.26
27 Naphthalene-d8	11.59	11.09	12.09	11.63	0.33
42 Acenaphthene-d10	15.21	14.71	15.71	15.36	0.97
59 Phenanthrene-d10	18.27	17.77	18.77	18.37	0.55
69 Chrysene-d12	23.36	22.86	23.86	23.39	0.13
134 Di-n-octylphthala	24.41	23.91	24.91	24.43	0.10
77 Perylene-d12	26.06	25.56	26.56	26.11	0.18

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

REVIEW SUMMARY FOR FILE - NT1022071416.D

Lab ID: BKG0069-MS1
nt10.i, ABN.m, 14-JUL-2022 23:27

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.108	1.100	0.0083	4-Chloro-3-methylphenol
1.136	1.124	0.0122	2-Methylnaphthalene
0.918	0.904	0.0140	2,4,5-Trichlorophenol
0.933	0.922	0.0113	2-Chloronaphthalene
1.036	1.031	0.0052	2,4-Dinitrotoluene
1.155	1.144	0.0115	1-methylnaphthalene

RRT check based on Ccal File: NT1022071402.D

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

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

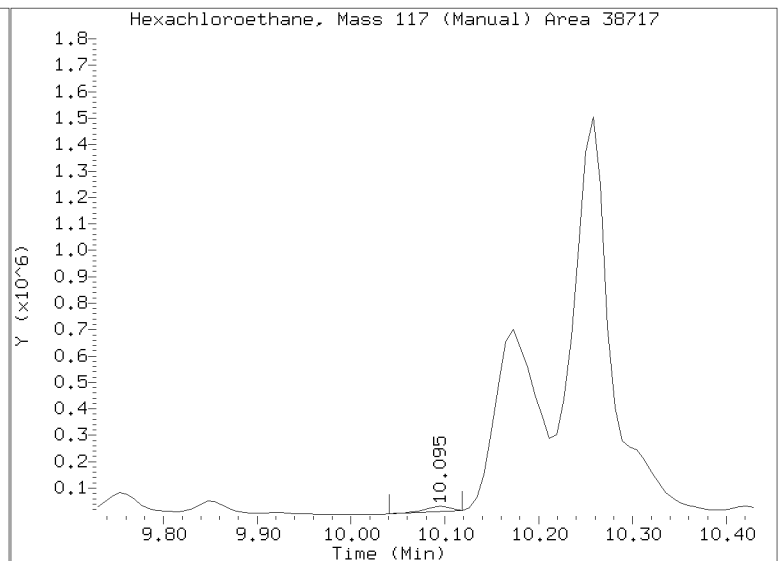
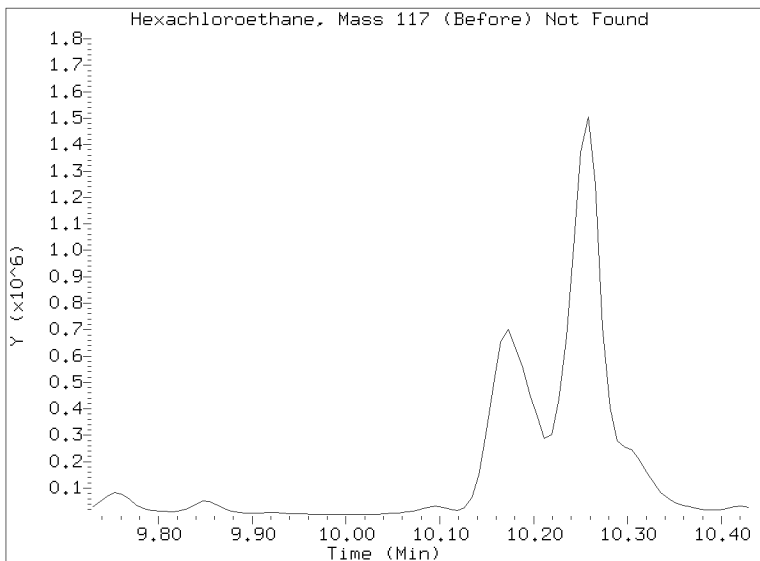
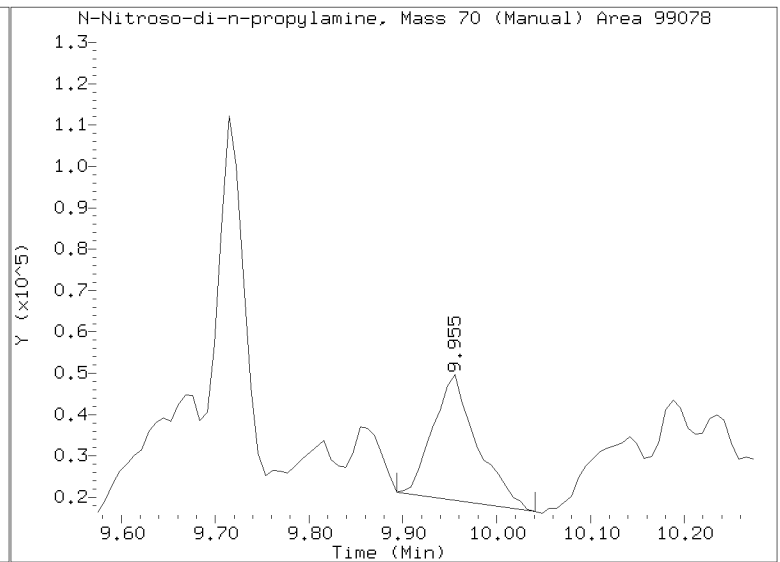
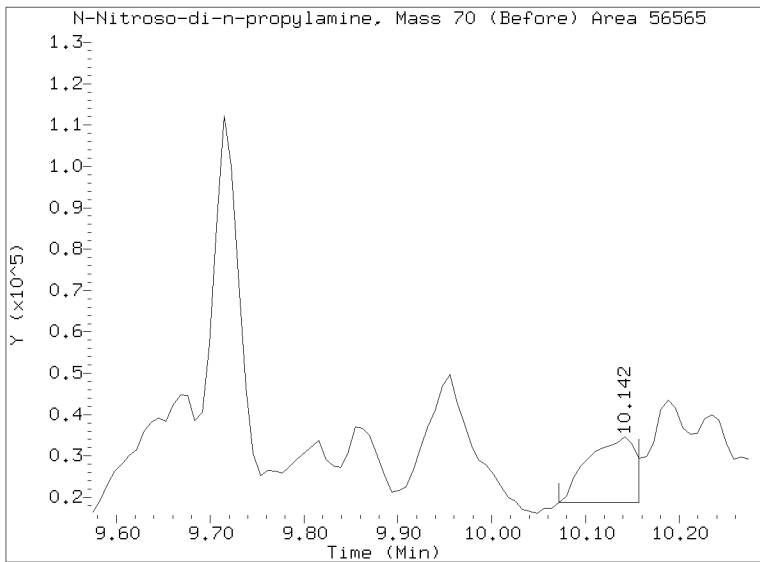
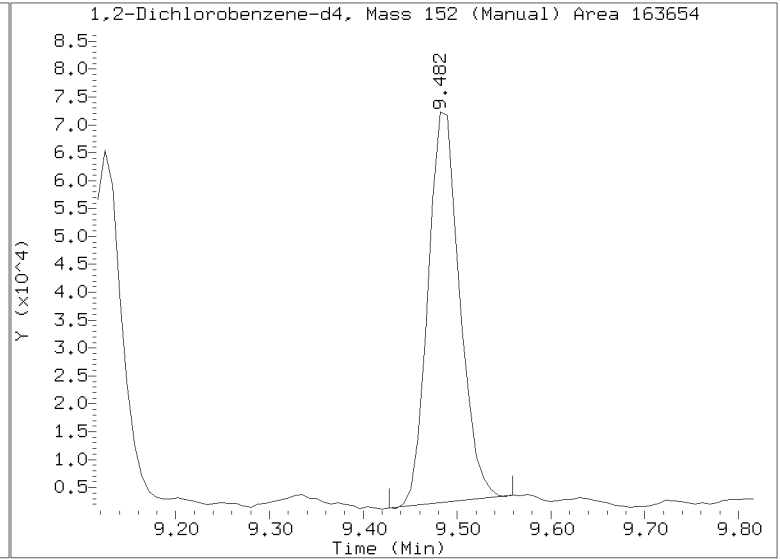
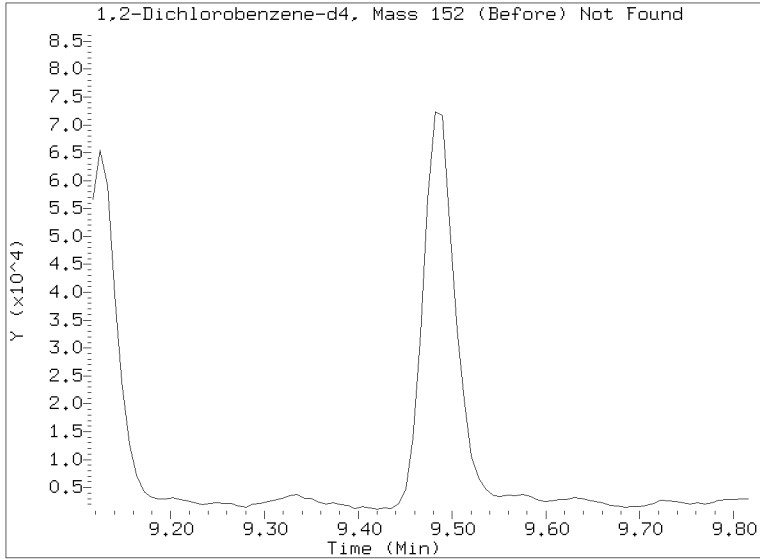
Quant Ion Manual Peak Adjustment Report

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Injection Date: 14-JUL-2022 23:27

Lab ID: BKG0069-MS1 Client ID:

Report Date: 07/19/2022 12:56



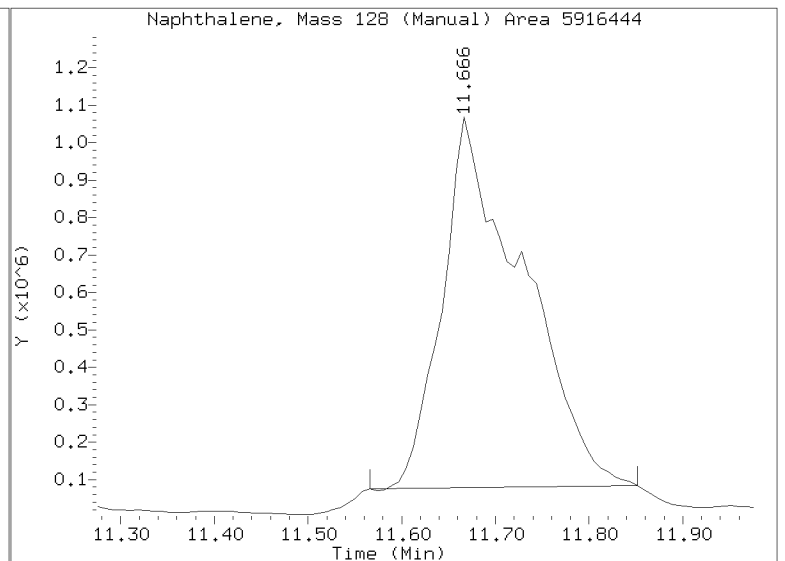
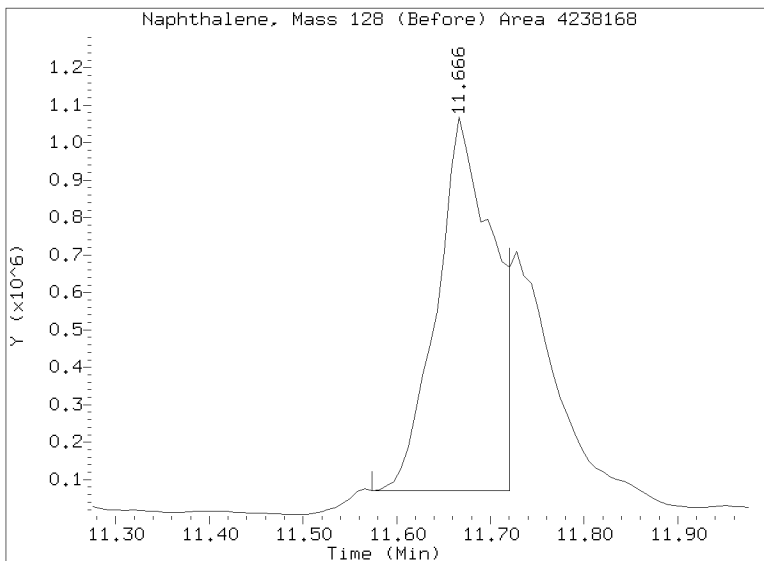
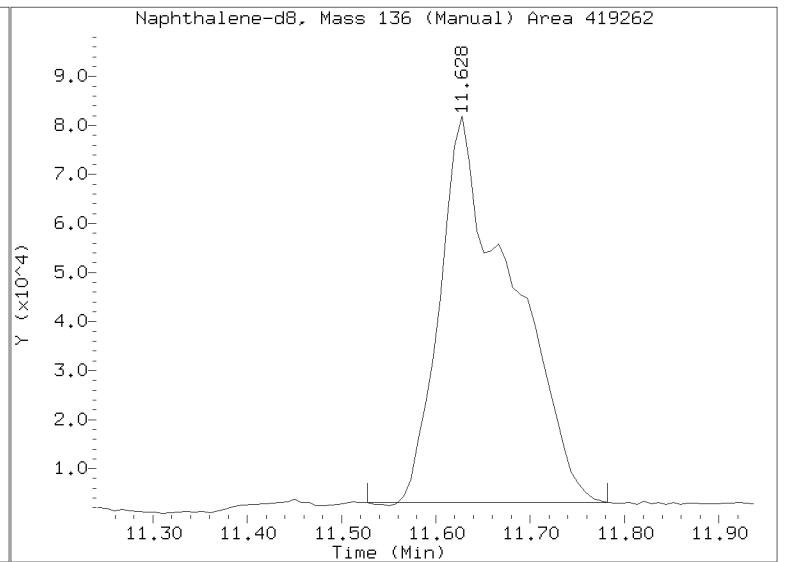
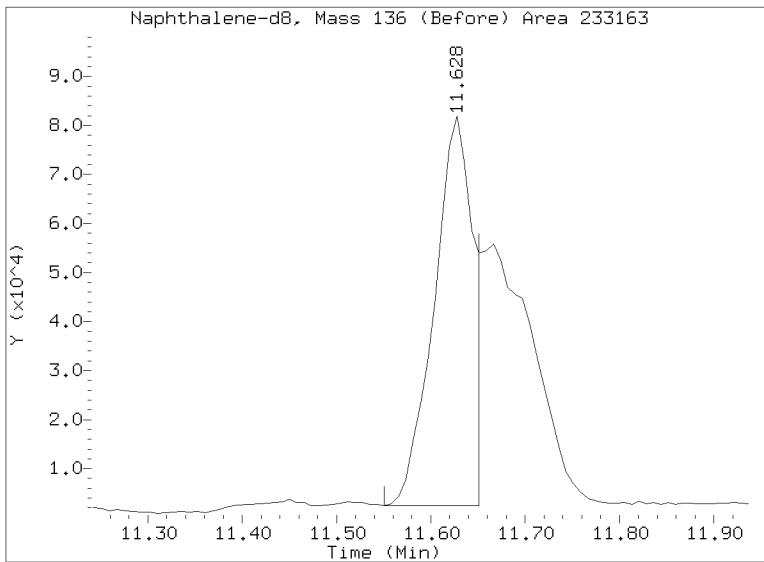
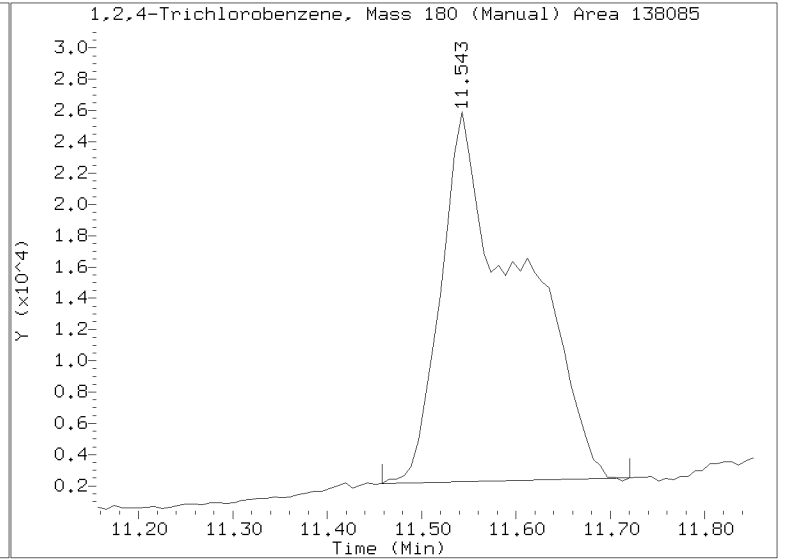
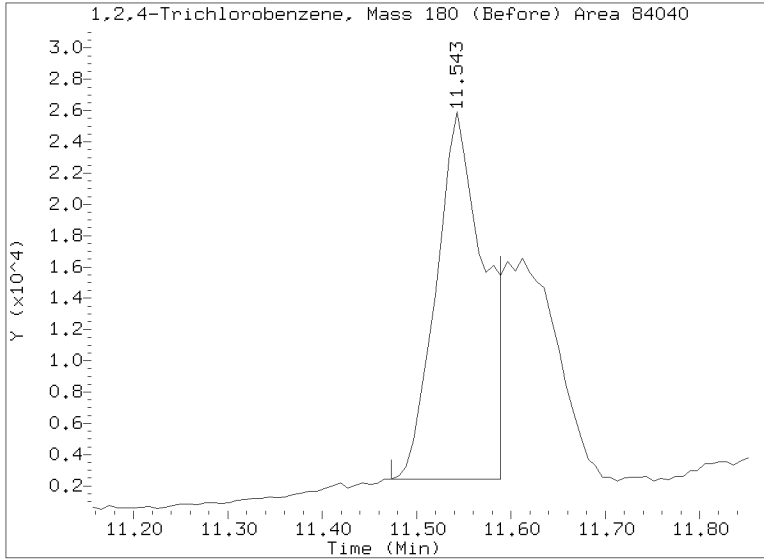
Quant Ion Manual Peak Adjustment Report

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Injection Date: 14-JUL-2022 23:27

Lab ID: BKG0069-MS1 Client ID:

Report Date: 07/19/2022 12:56



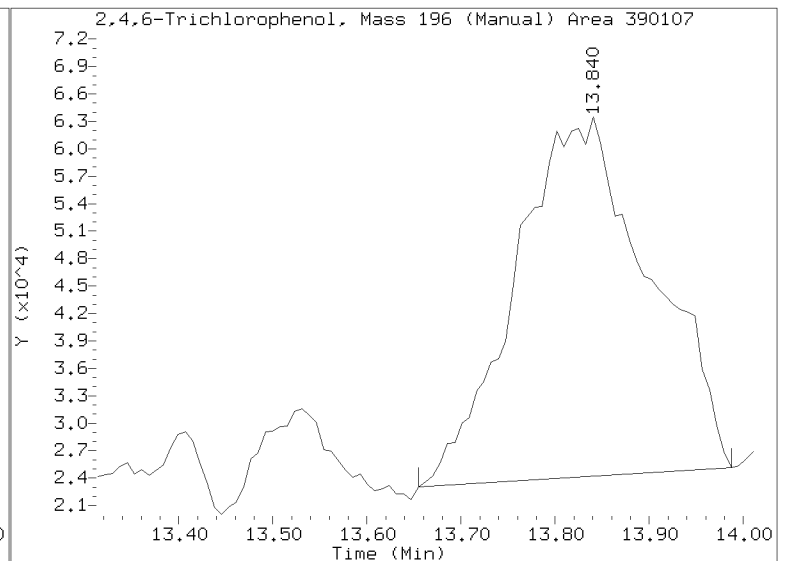
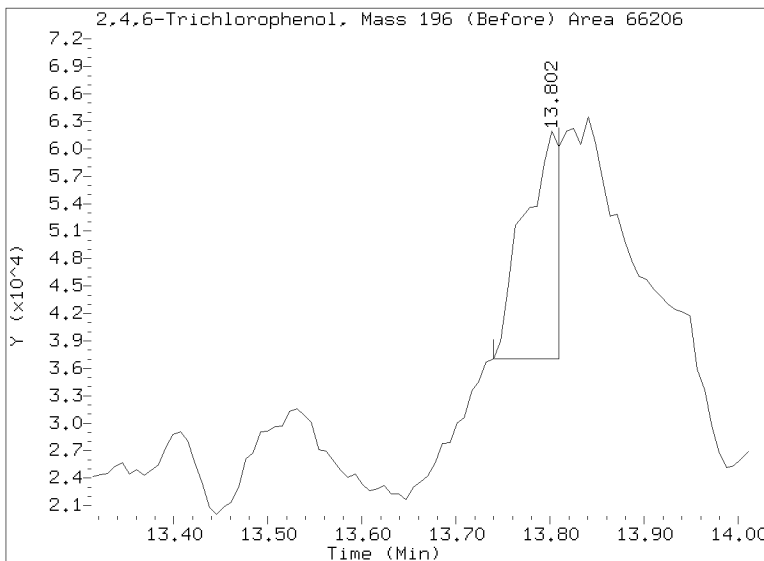
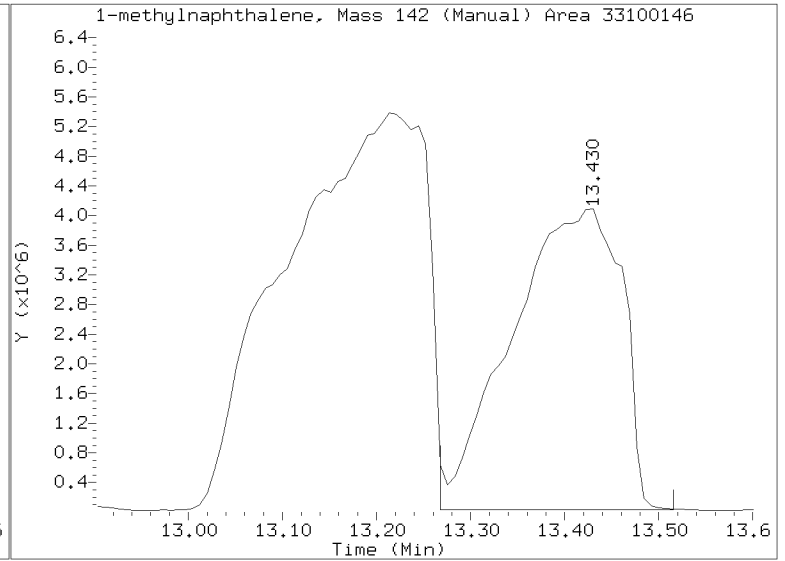
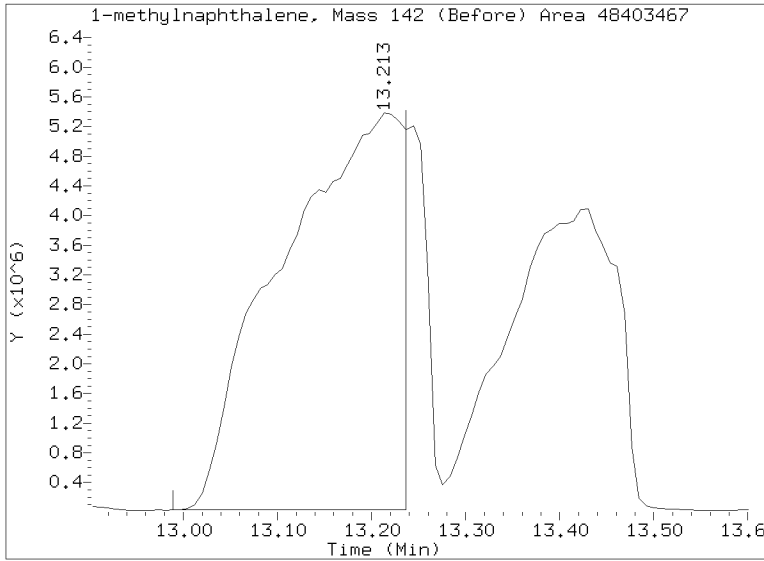
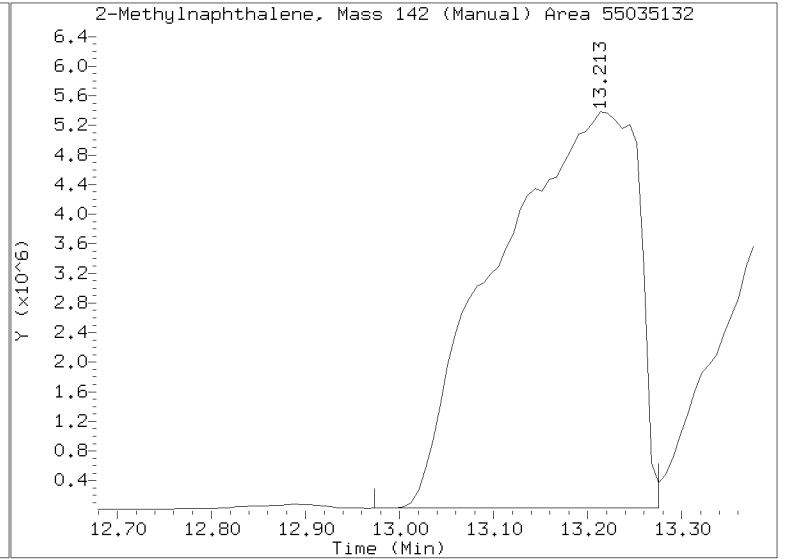
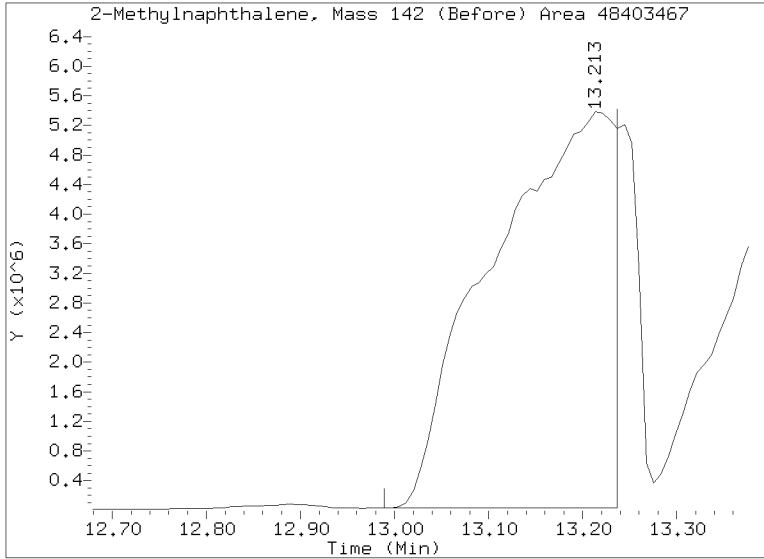
Quant Ion Manual Peak Adjustment Report

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Injection Date: 14-JUL-2022 23:27

Lab ID: BKG0069-MS1 Client ID:

Report Date: 07/19/2022 12:56



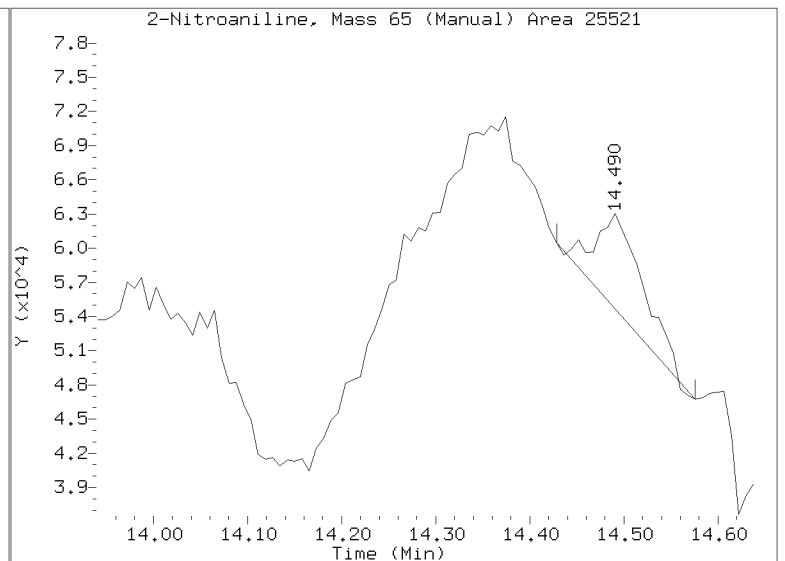
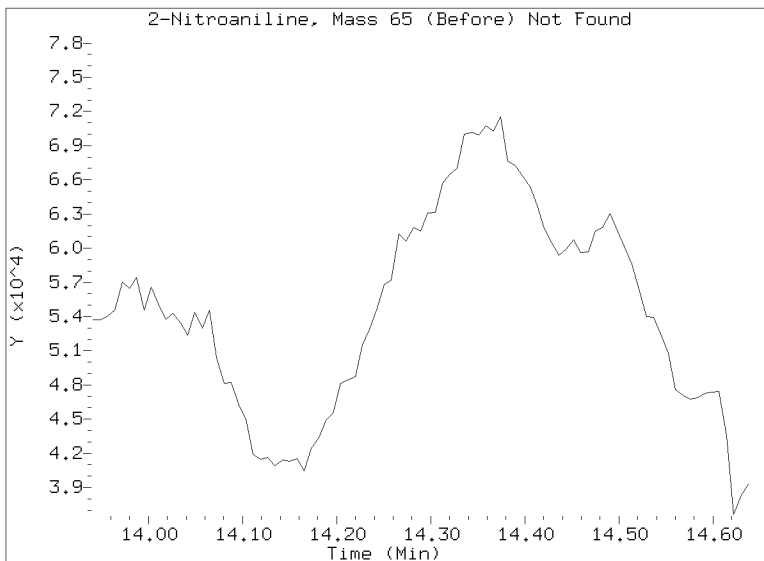
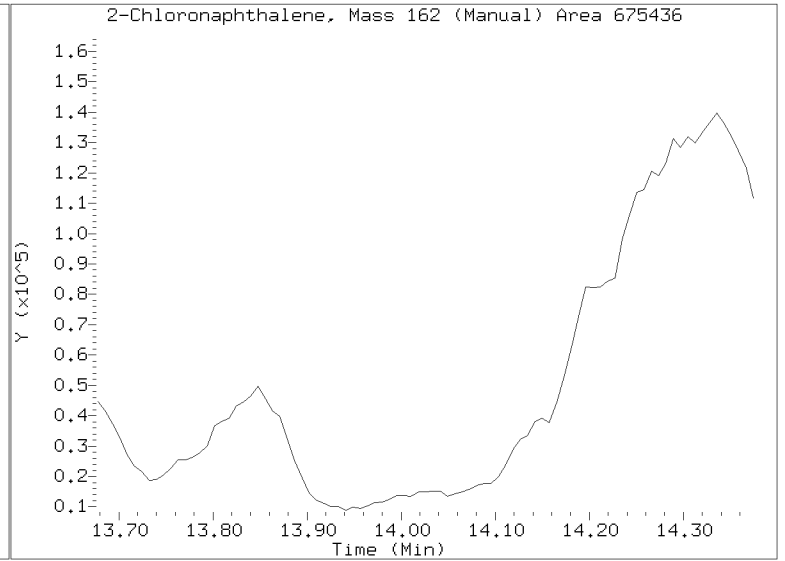
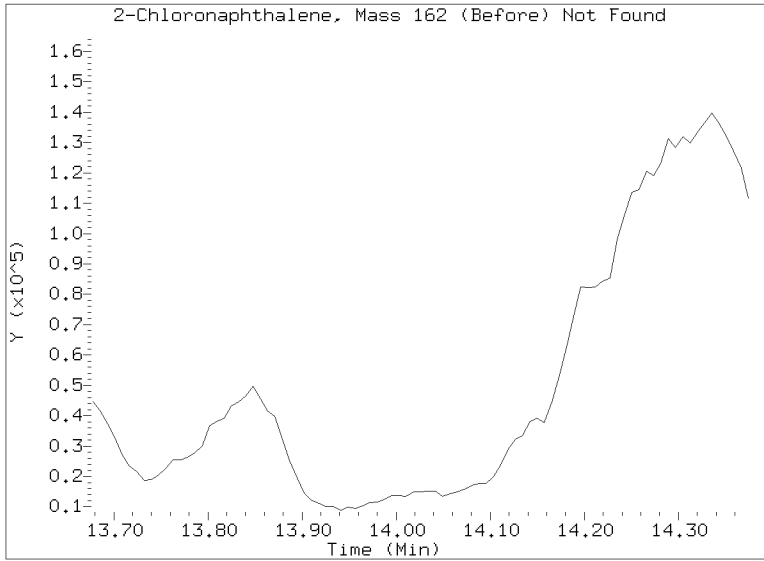
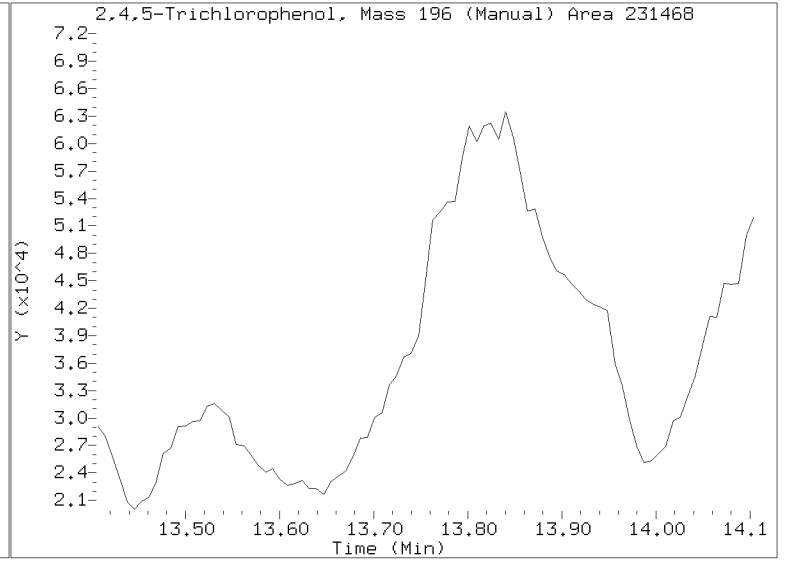
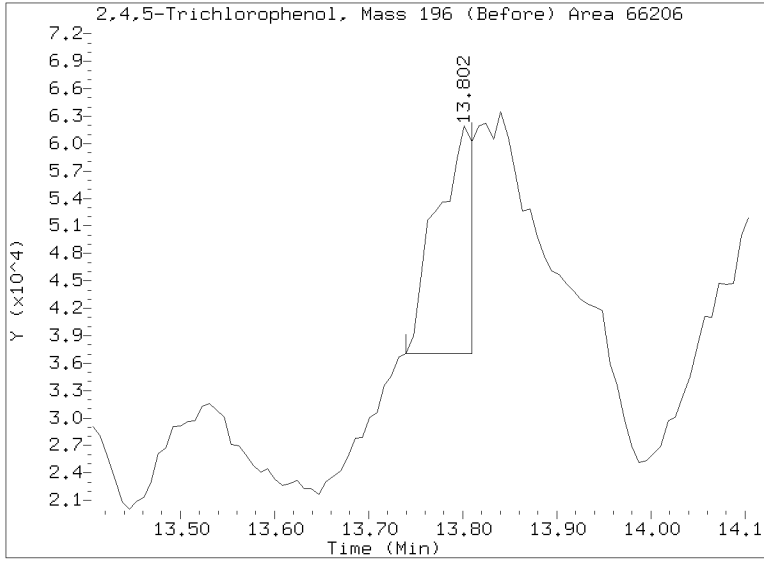
Quant Ion Manual Peak Adjustment Report

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Injection Date: 14-JUL-2022 23:27

Lab ID: BKG0069-MS1 Client ID:

Report Date: 07/19/2022 12:56



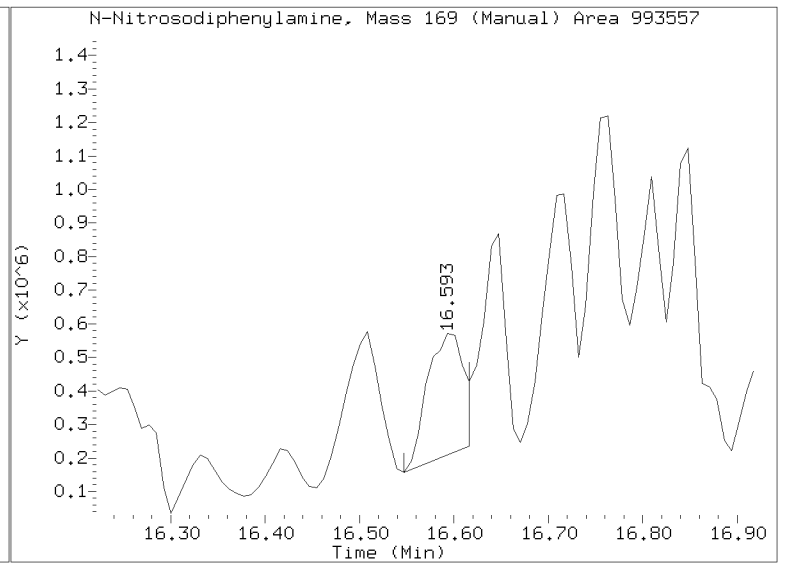
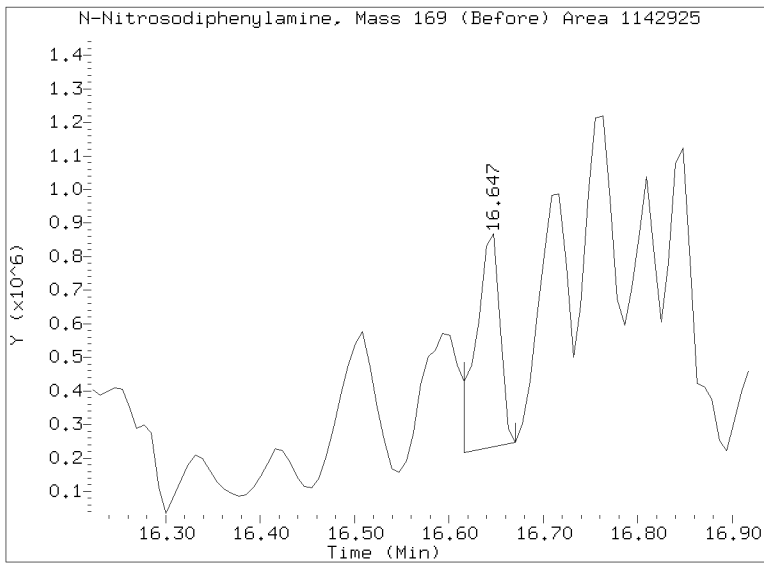
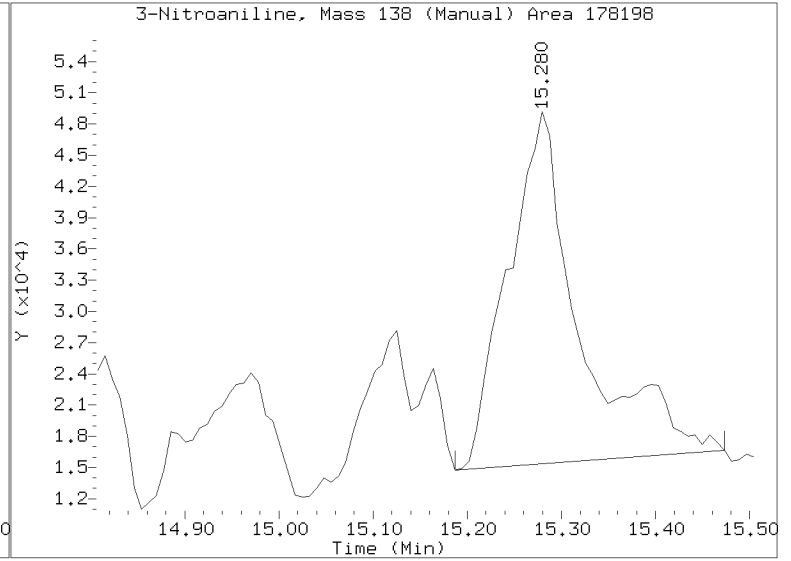
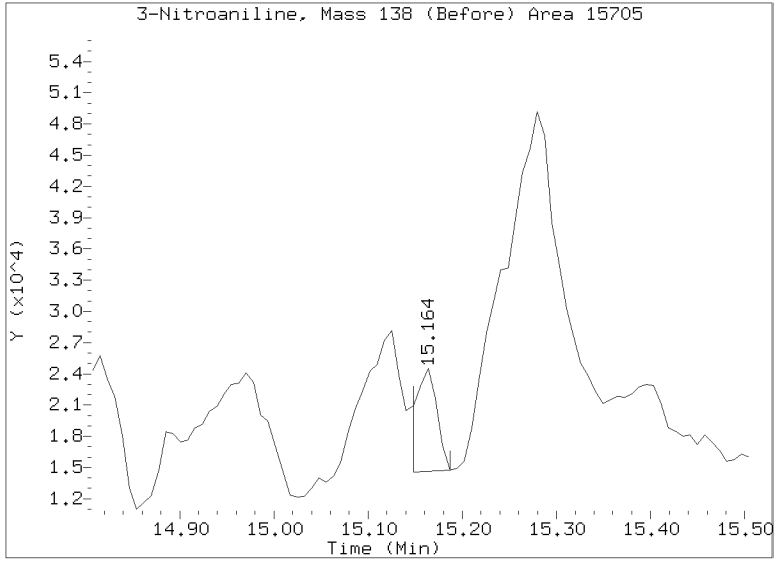
Quant Ion Manual Peak Adjustment Report

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Injection Date: 14-JUL-2022 23:27

Lab ID: BKG0069-MS1 Client ID:

Report Date: 07/19/2022 12:56



Data File: \\target\share\chem3\nt10.1\20220714.6\NT1022071417.D

Date : 15-JUL-2022 00:06

Client ID:

Sample Info: BK00069-HSDM

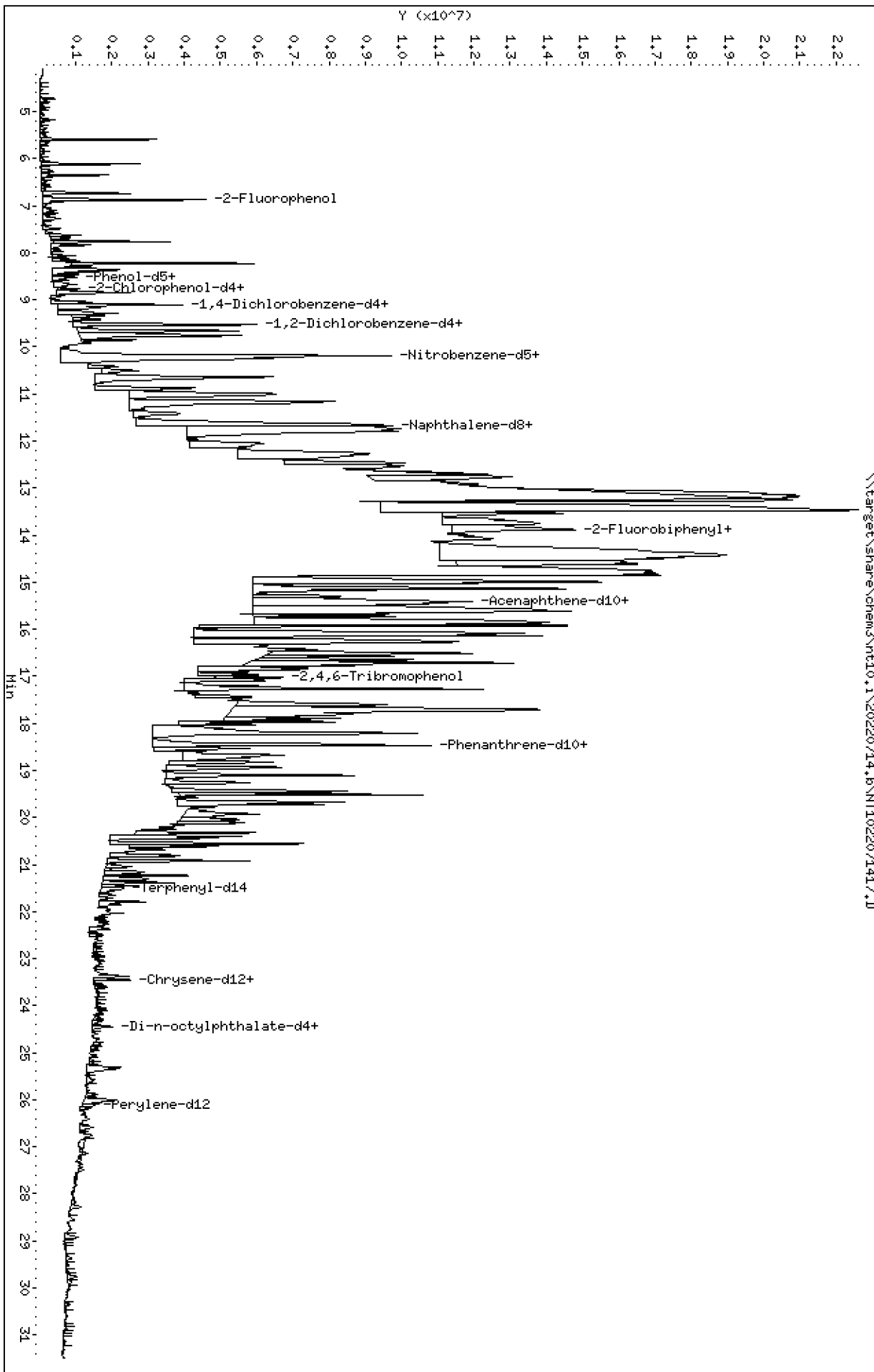
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

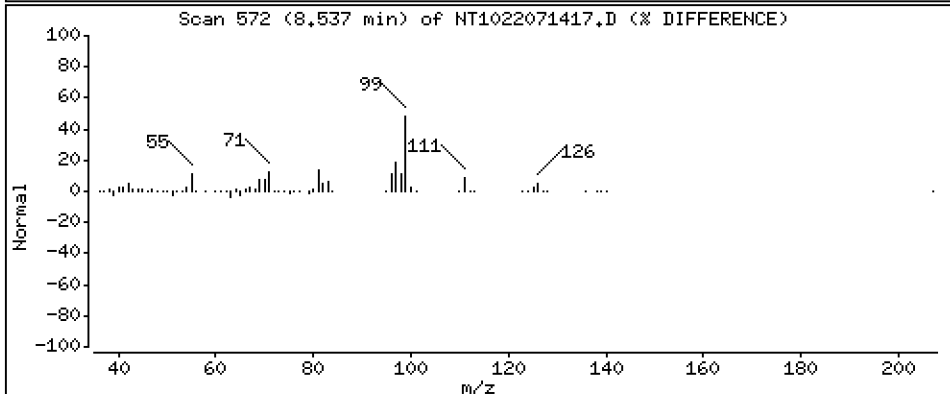
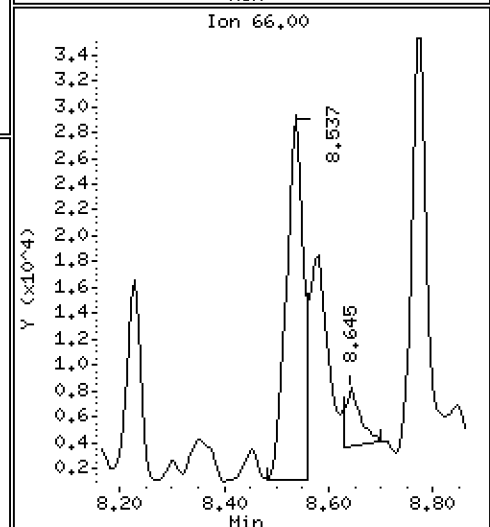
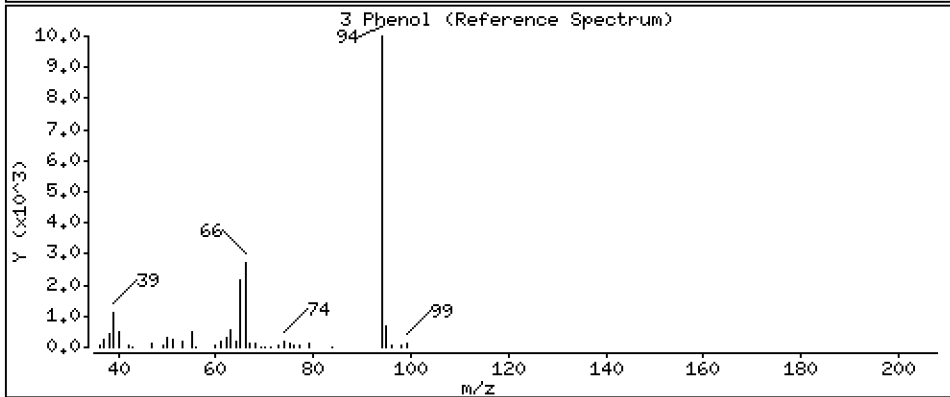
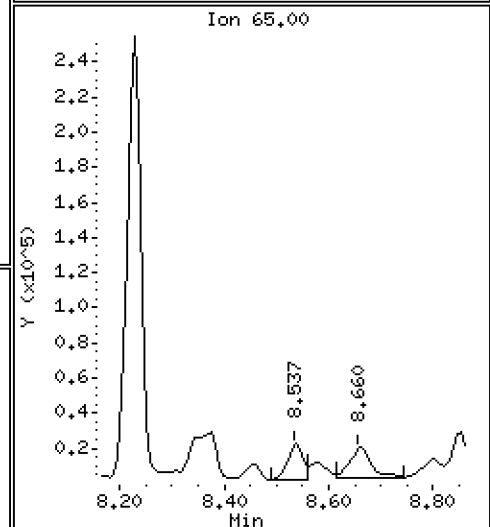
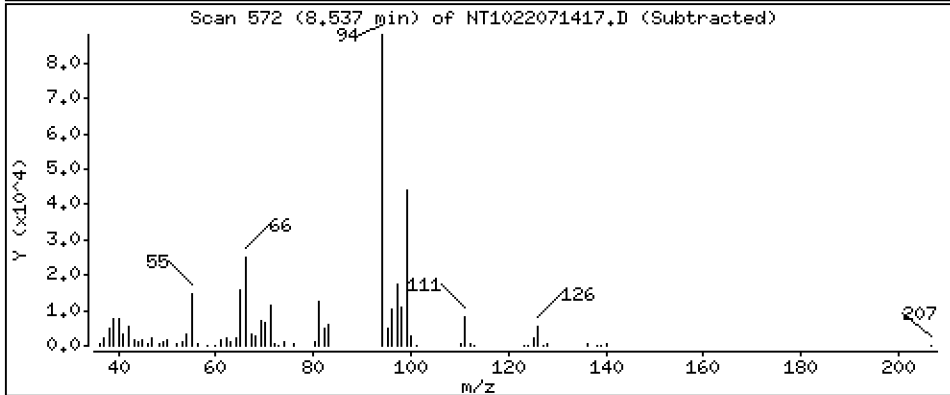
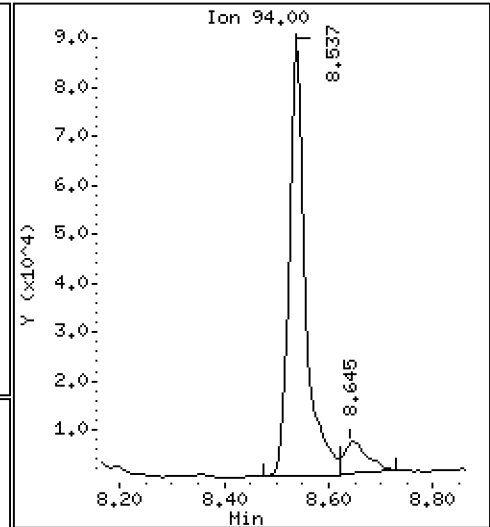
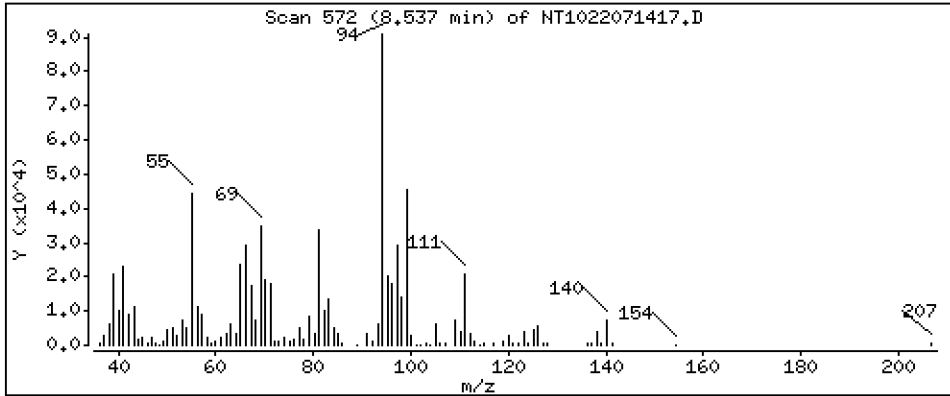
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,136 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

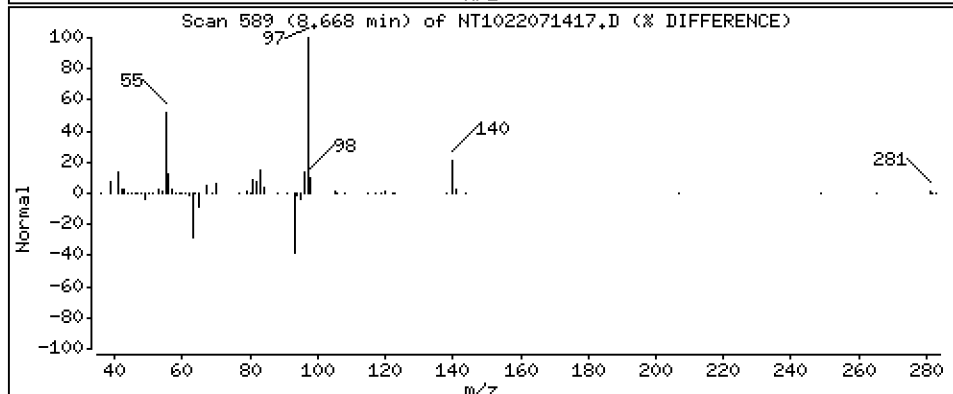
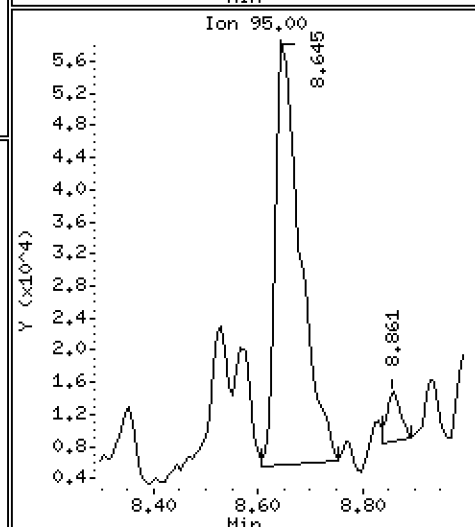
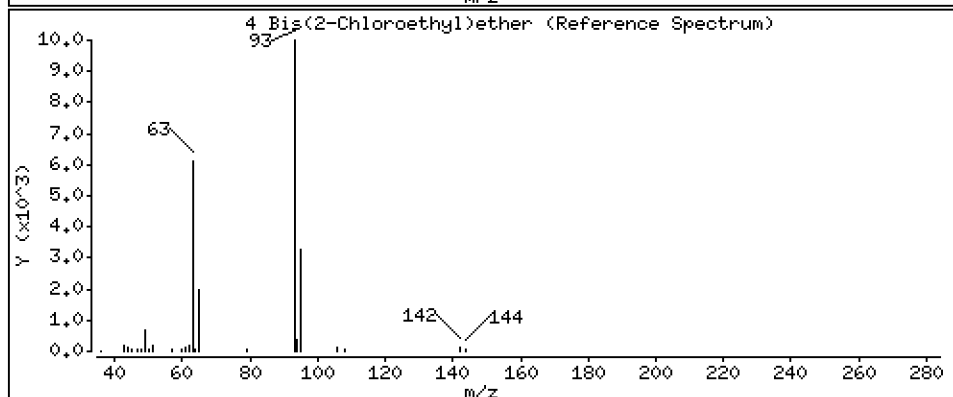
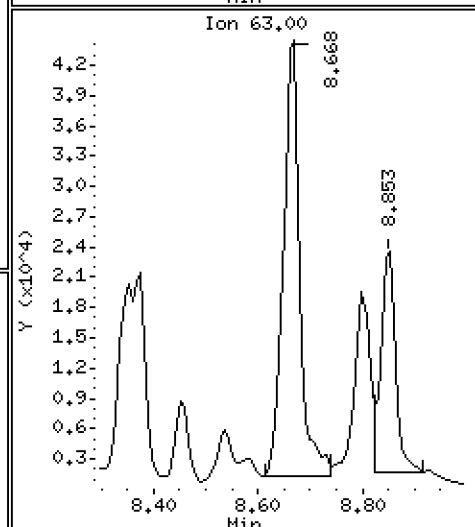
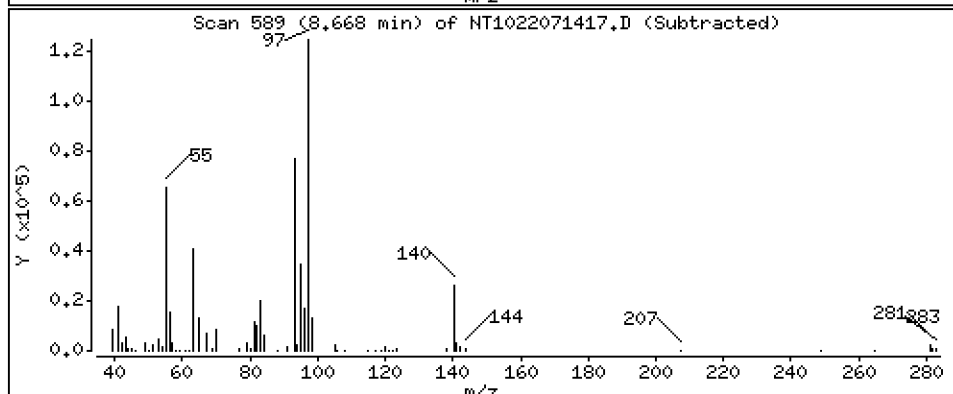
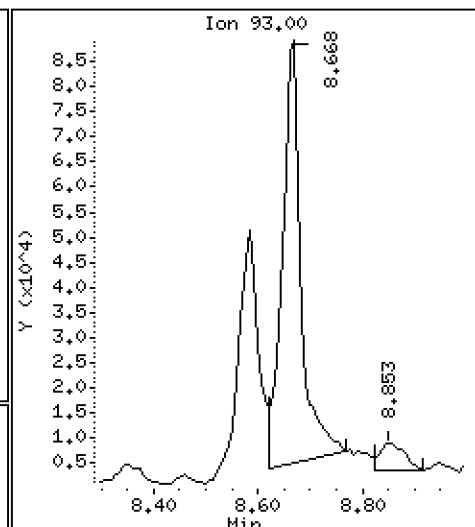
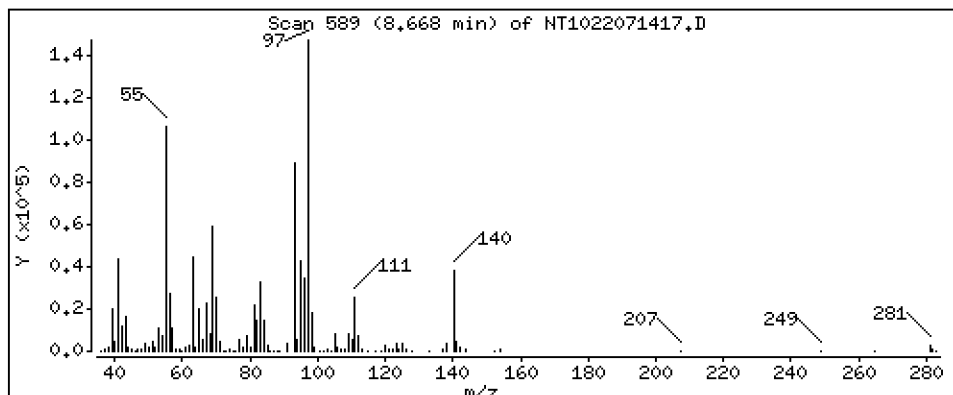
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,667 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

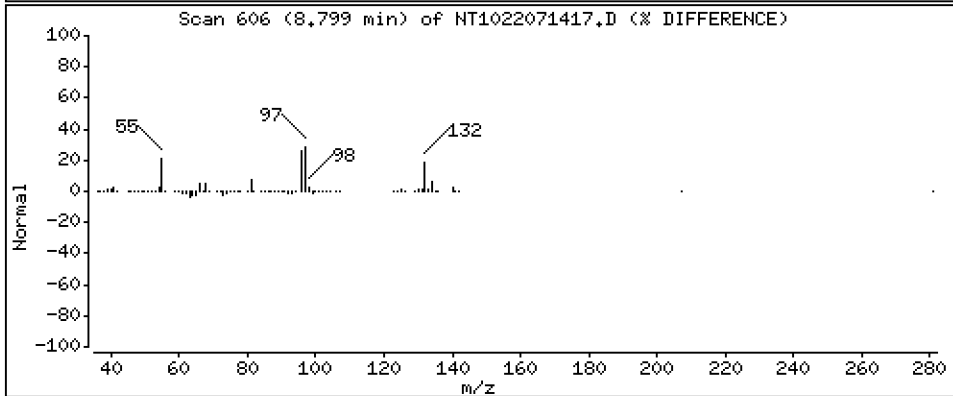
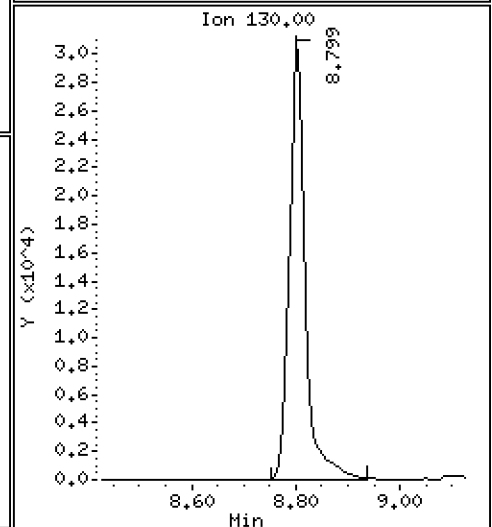
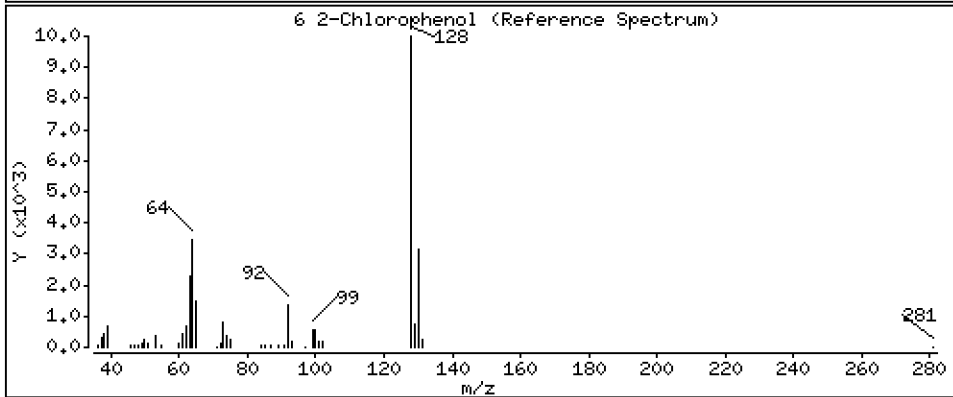
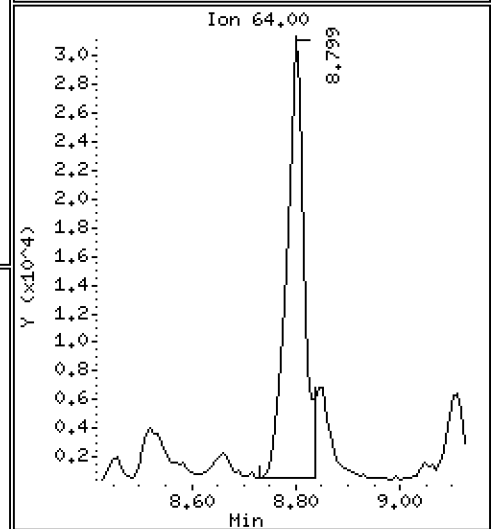
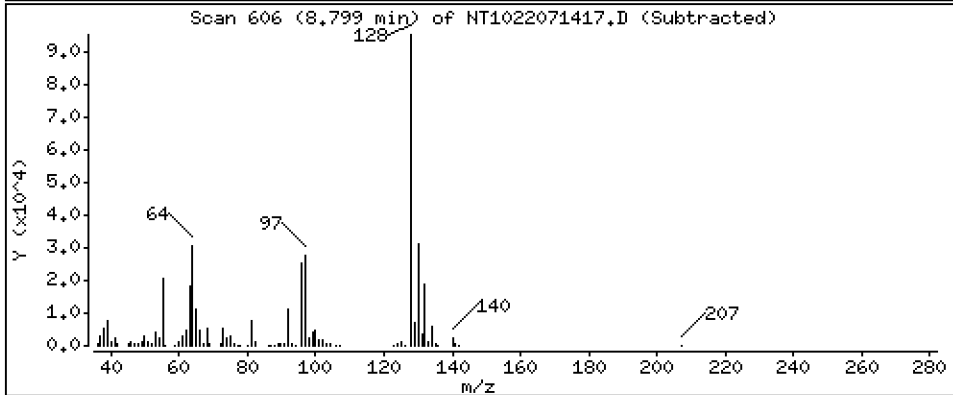
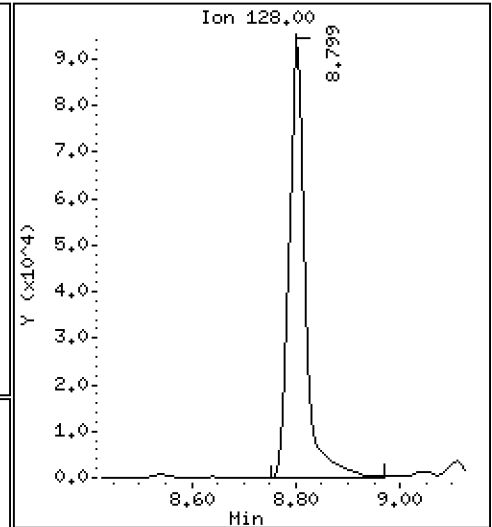
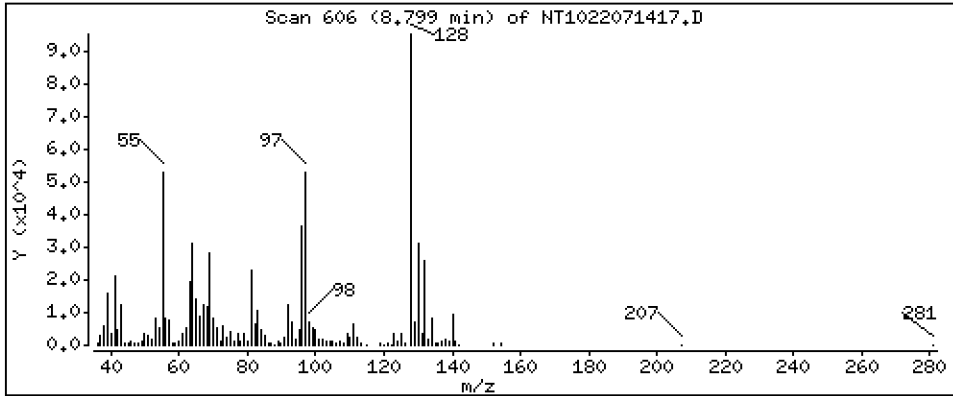
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,264 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

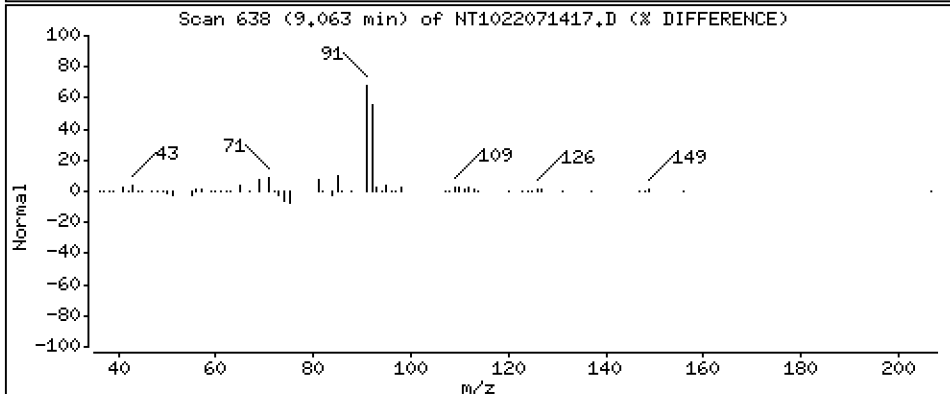
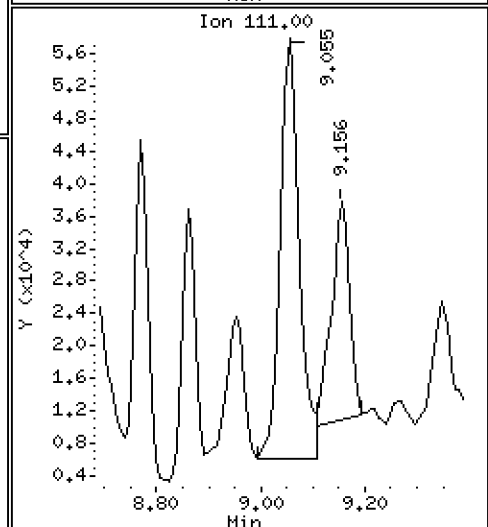
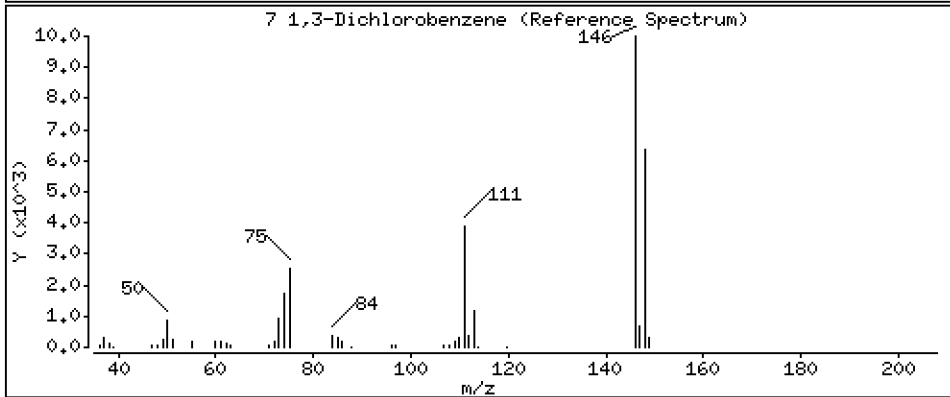
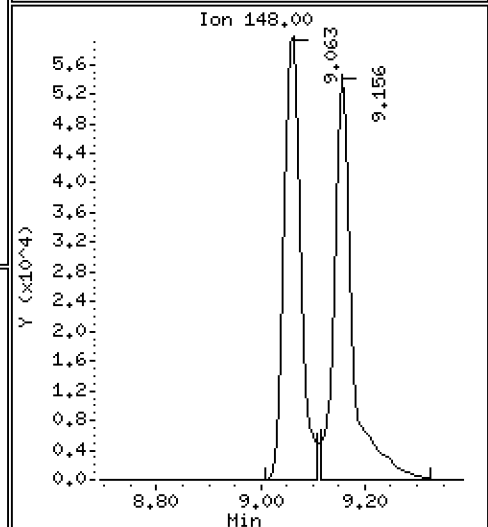
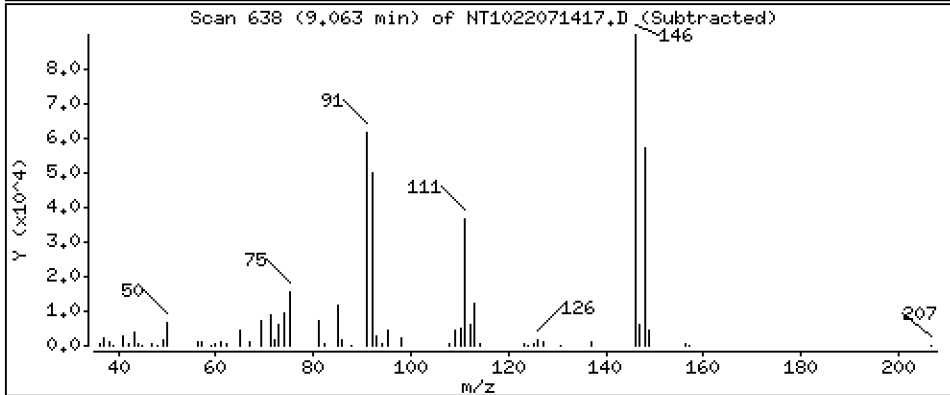
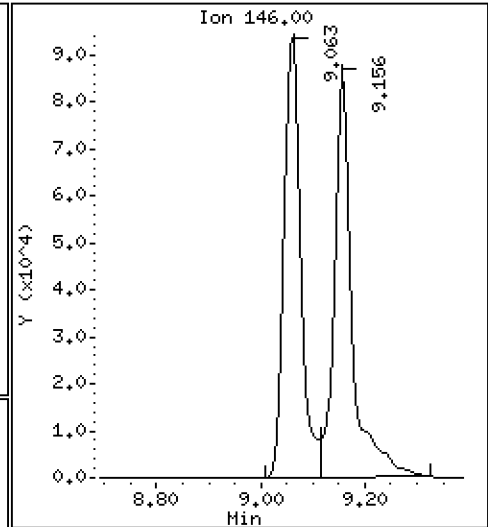
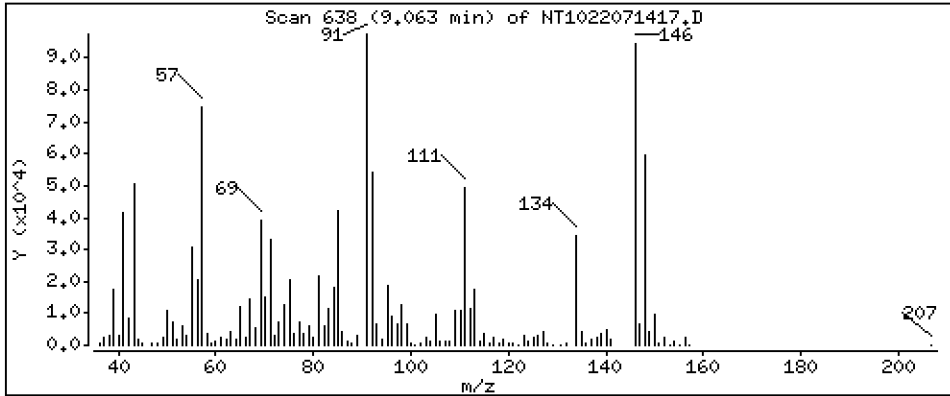
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 3,809 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

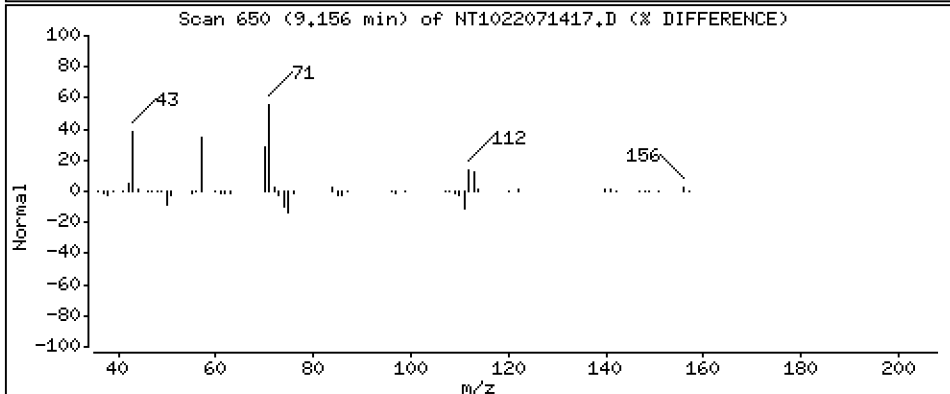
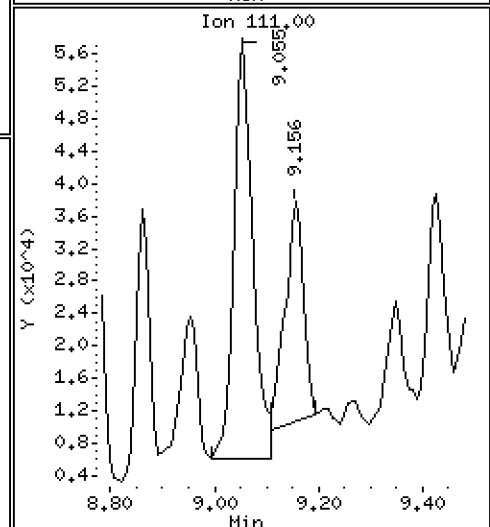
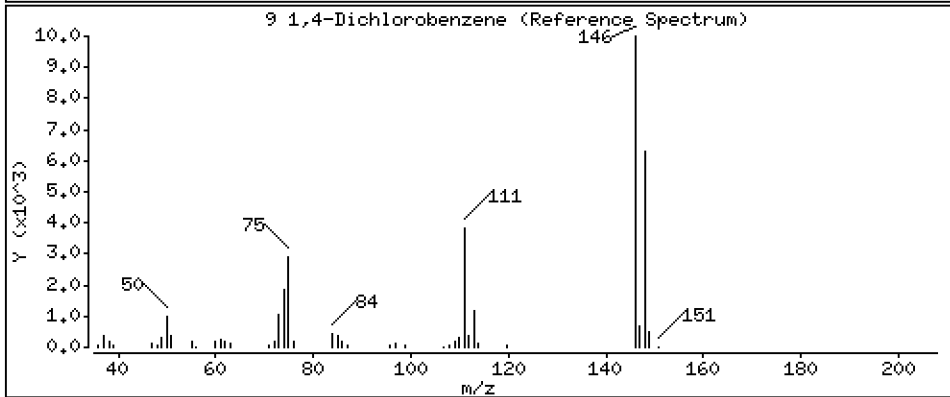
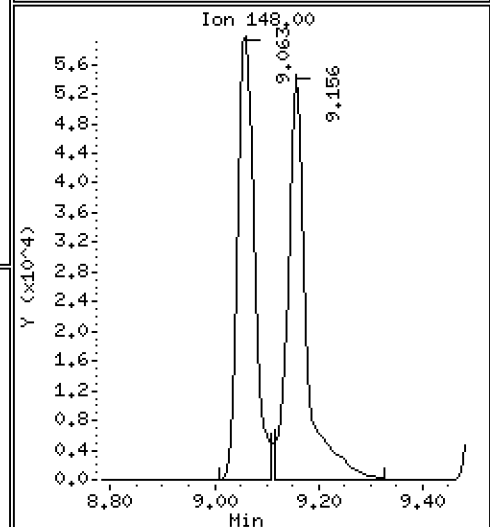
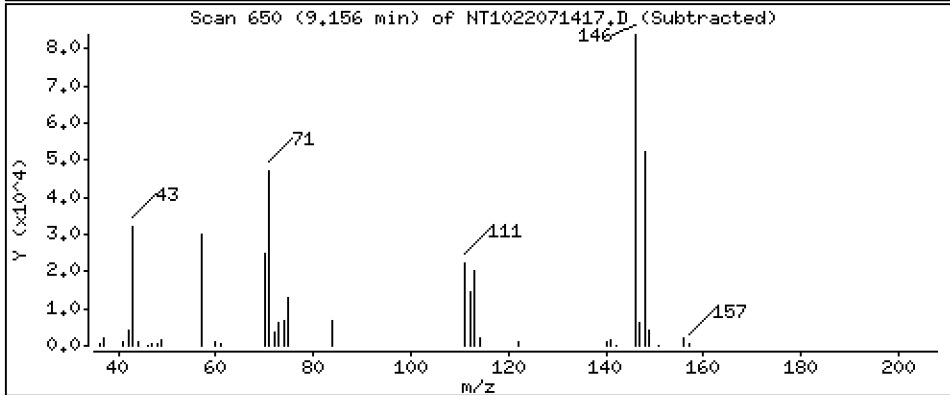
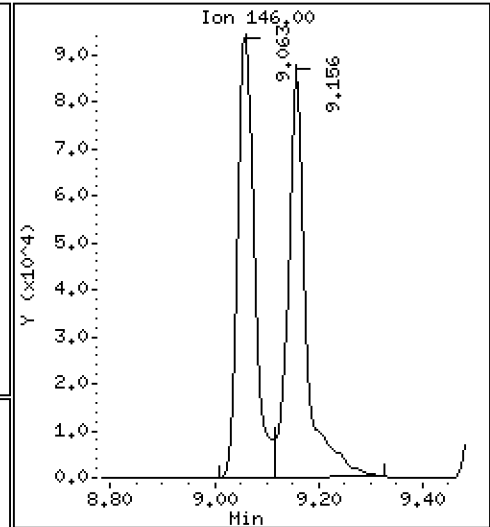
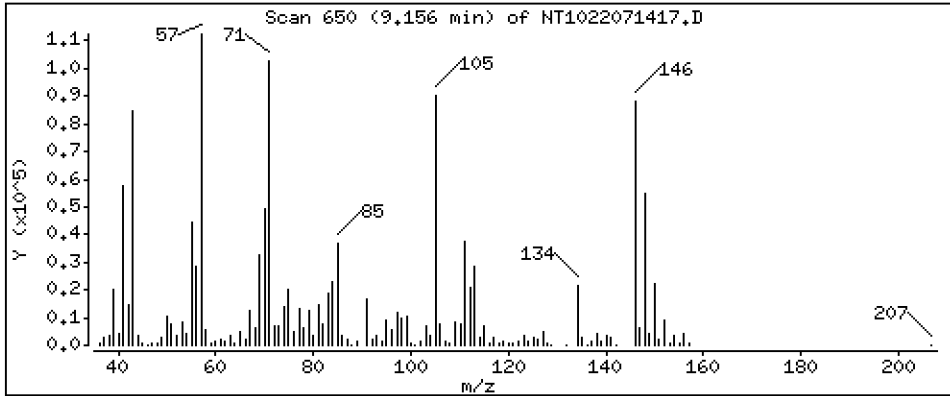
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 5,269 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

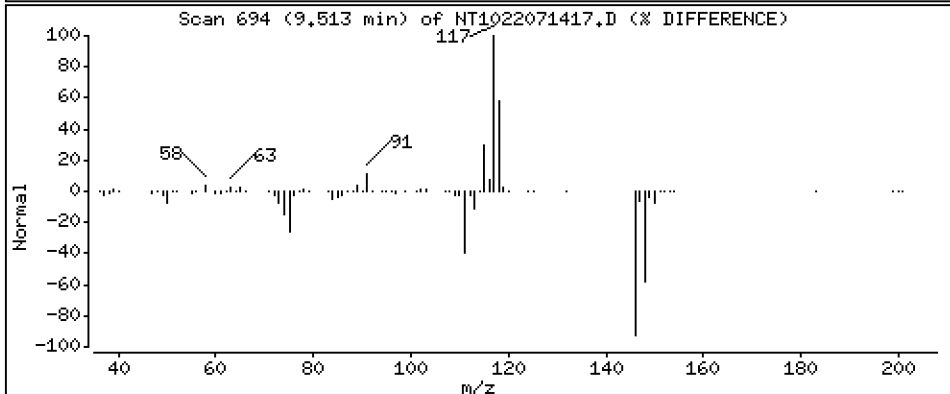
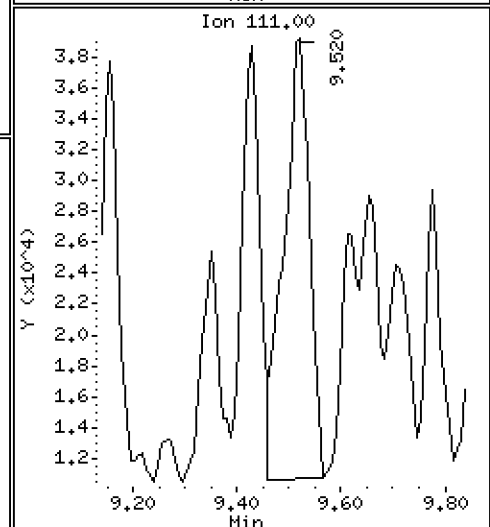
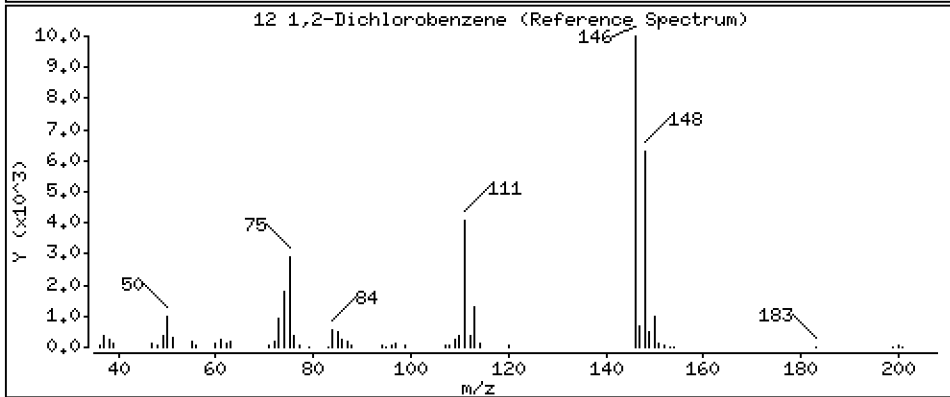
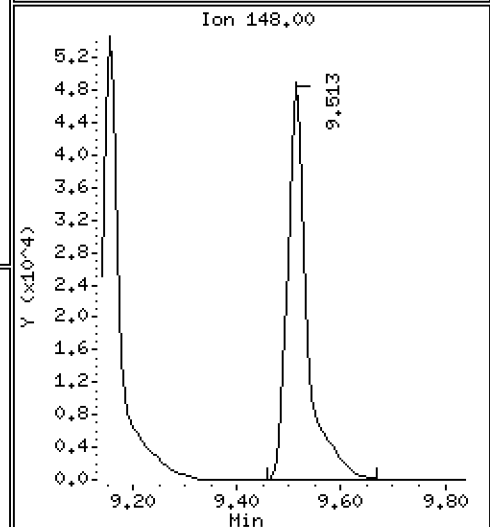
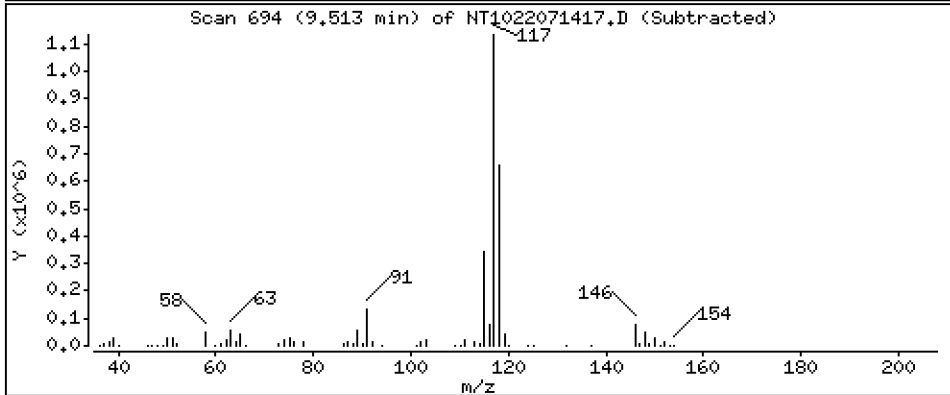
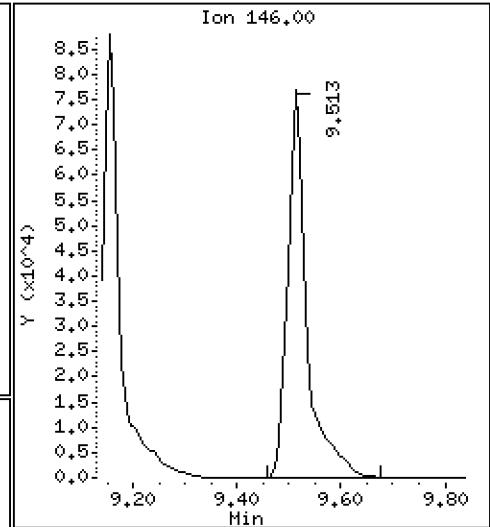
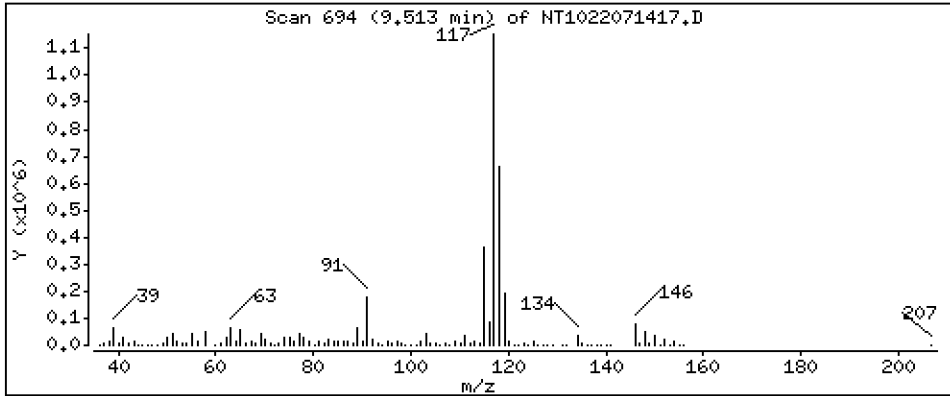
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.337 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

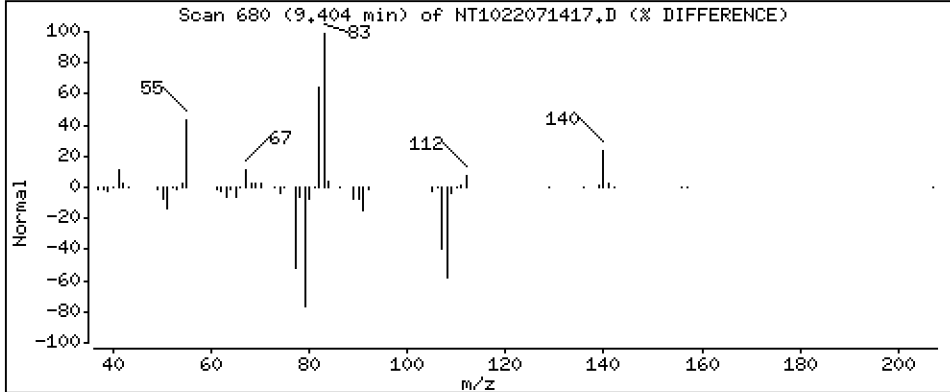
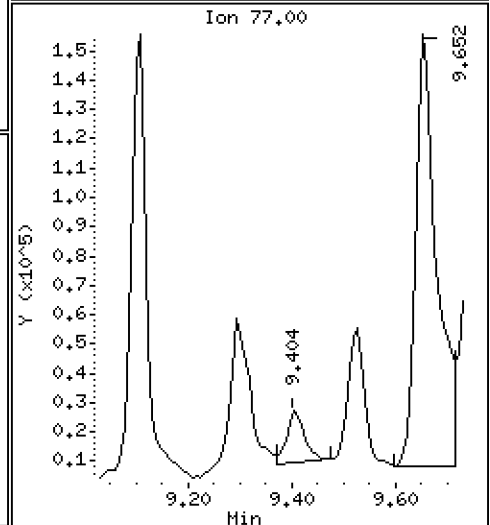
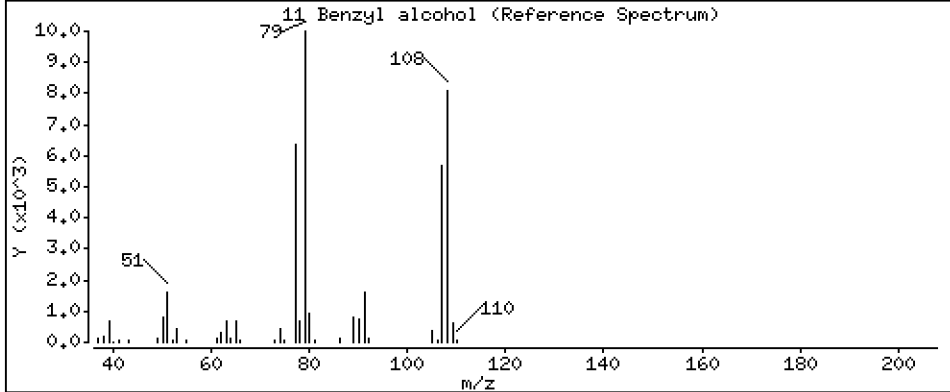
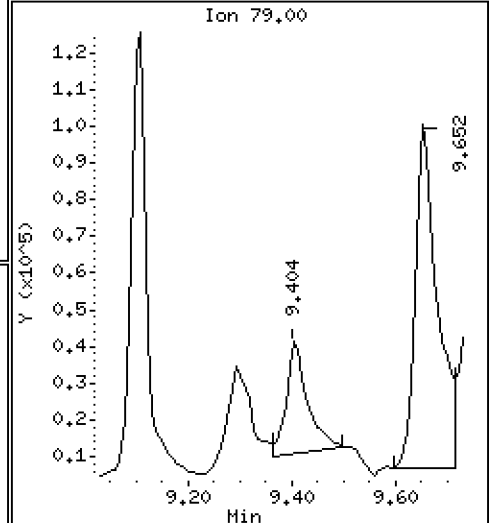
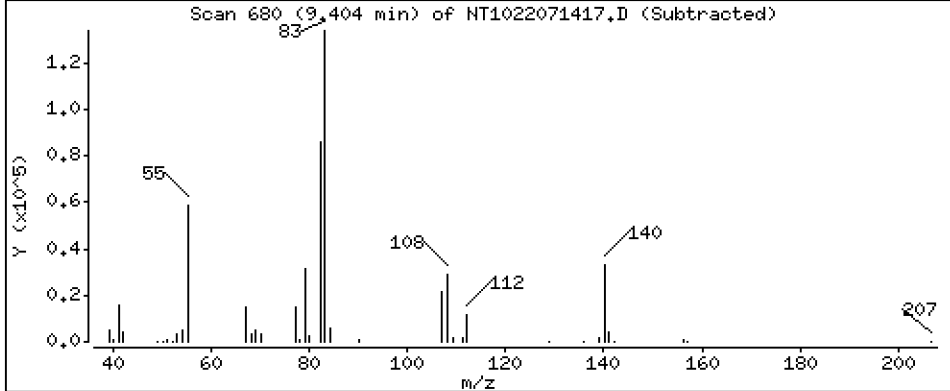
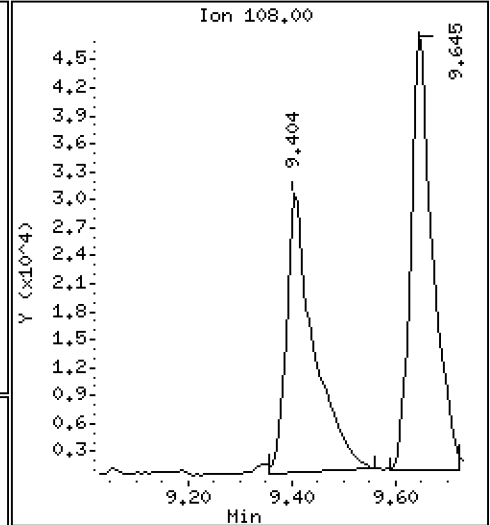
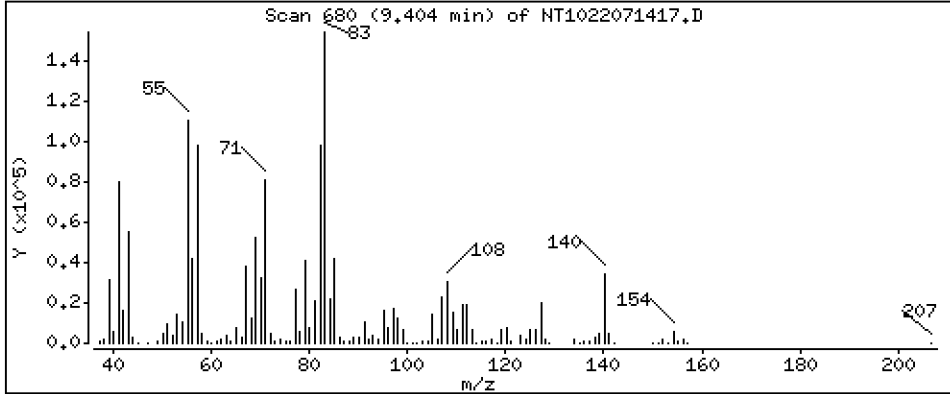
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.399 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

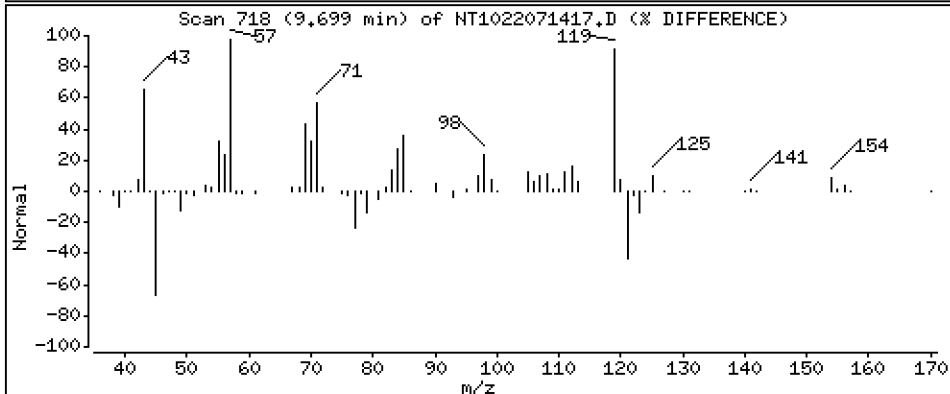
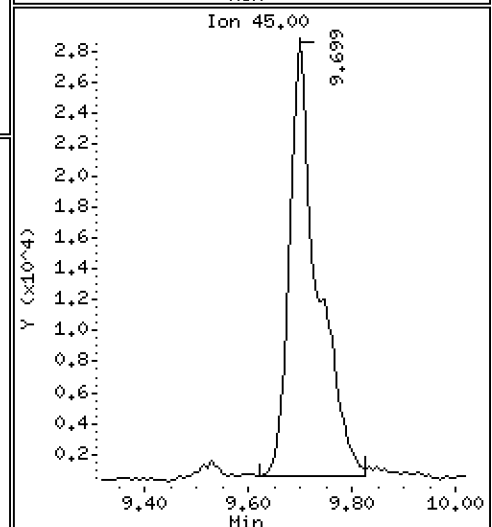
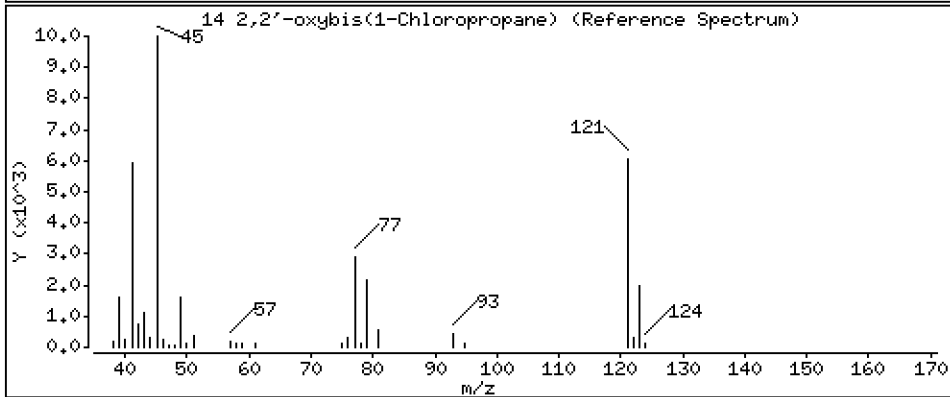
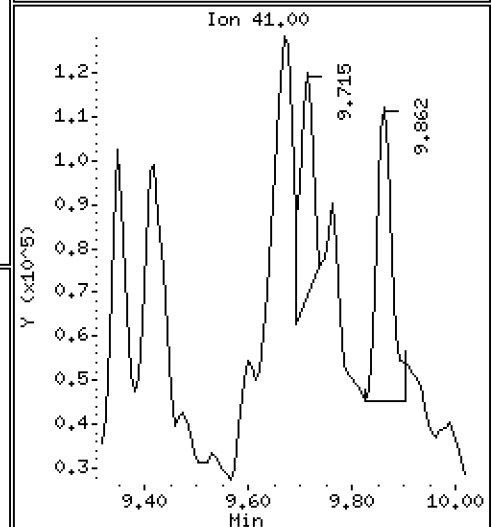
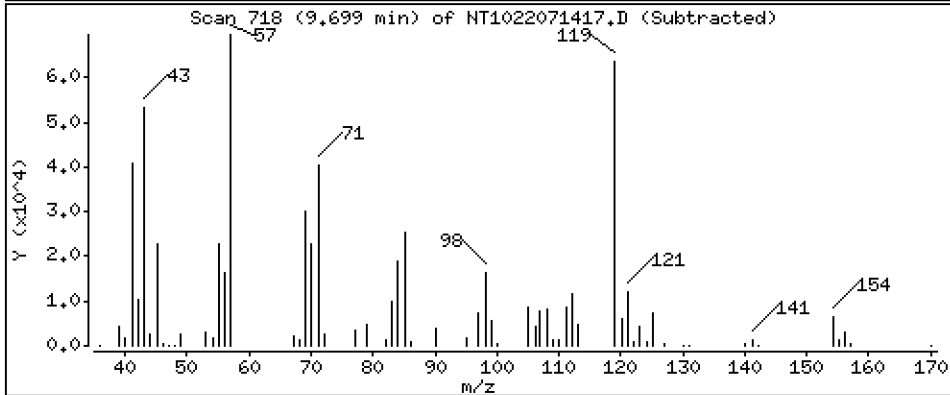
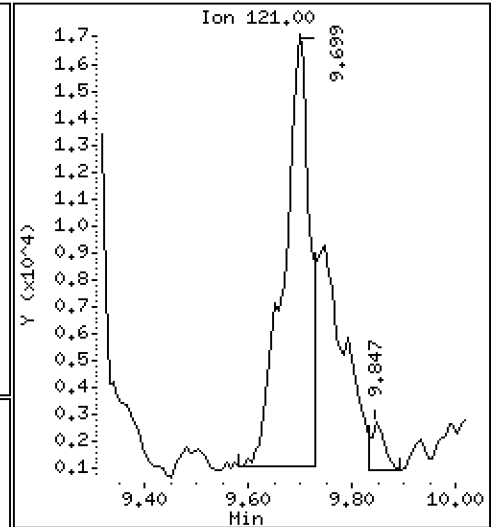
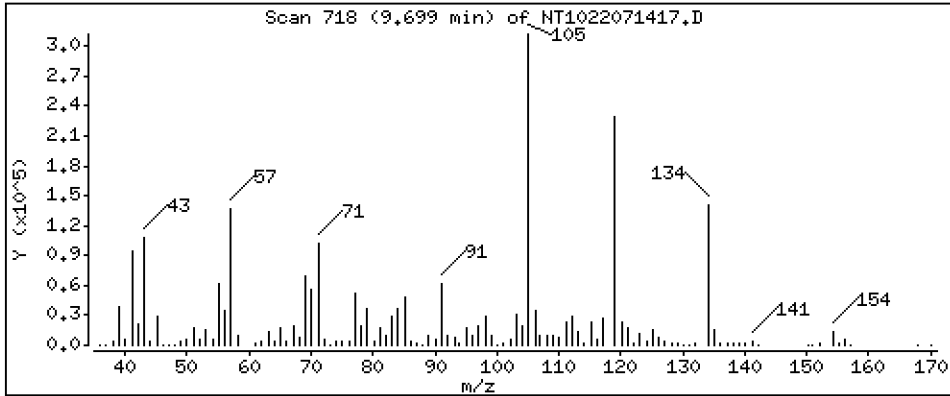
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 5.262 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

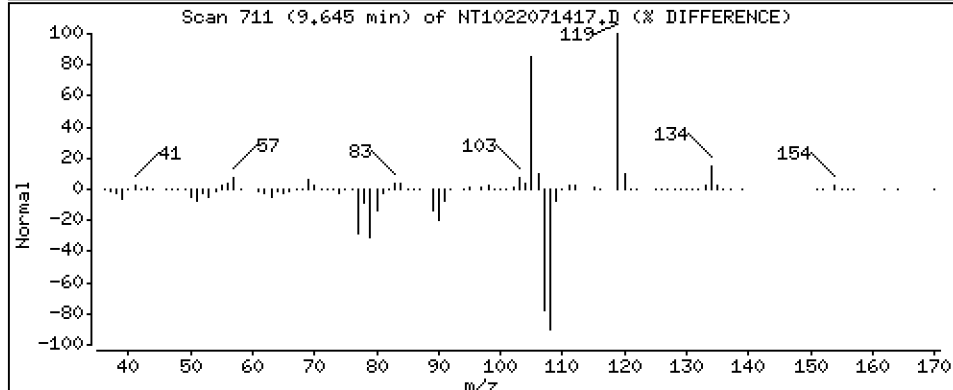
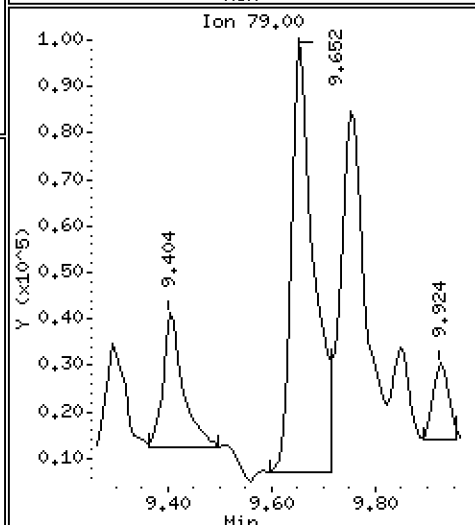
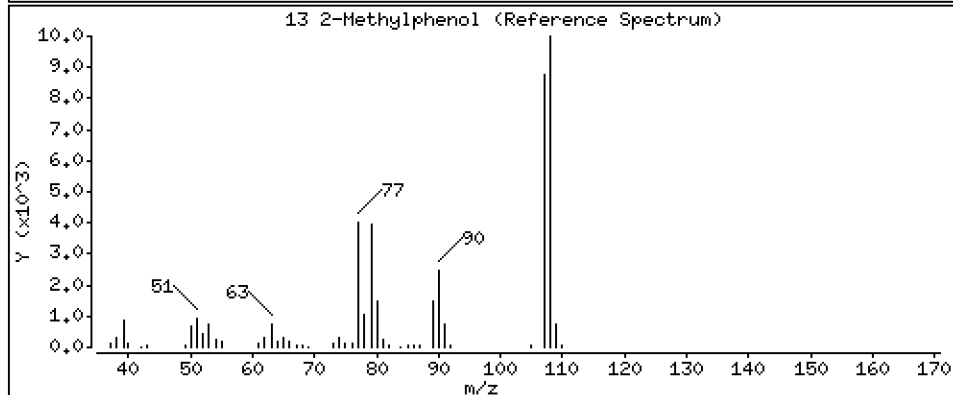
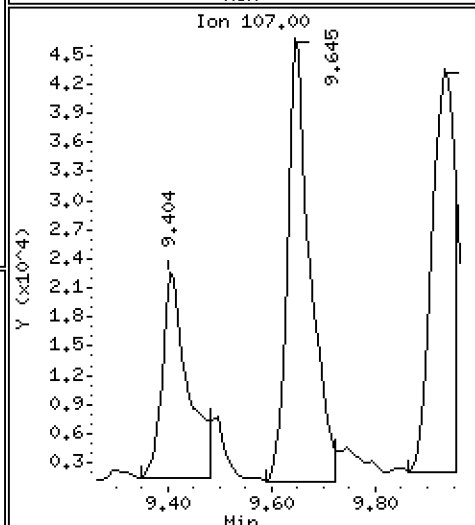
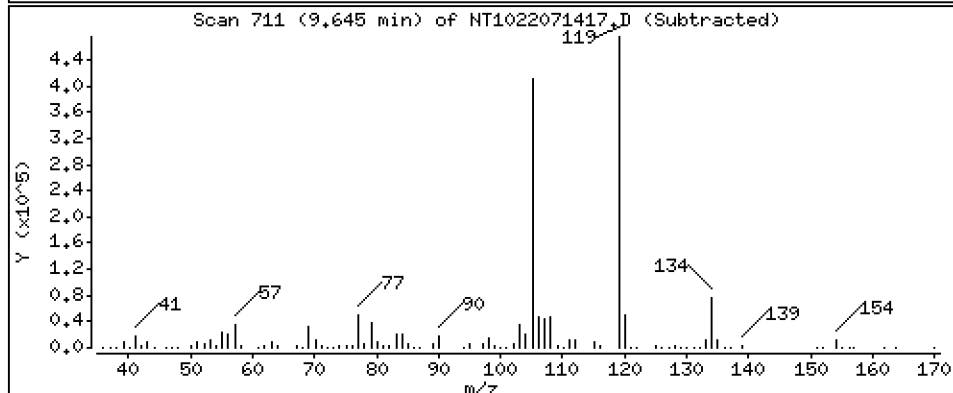
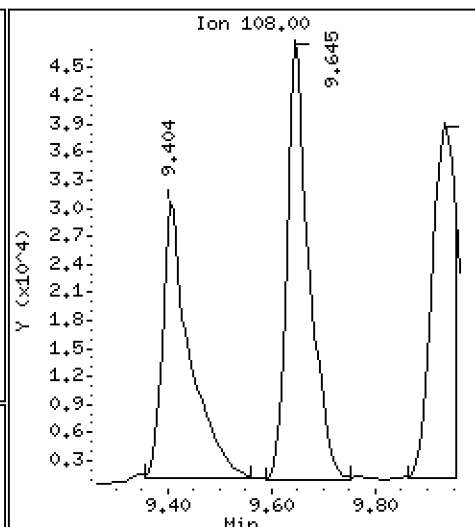
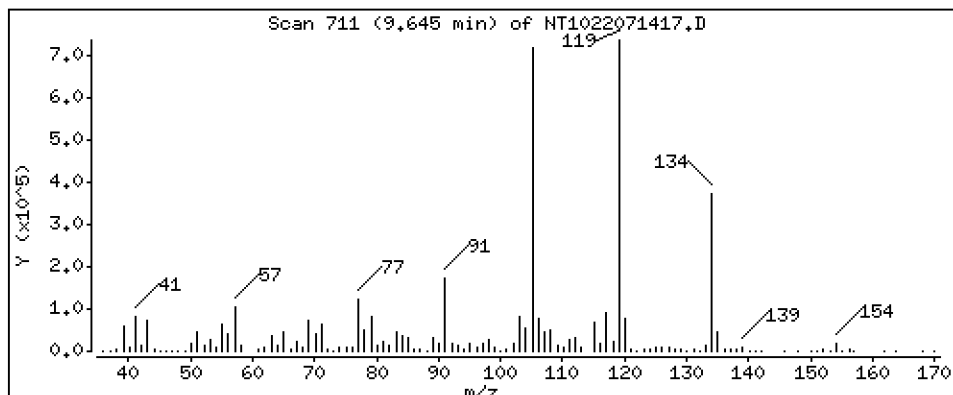
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 3.656 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

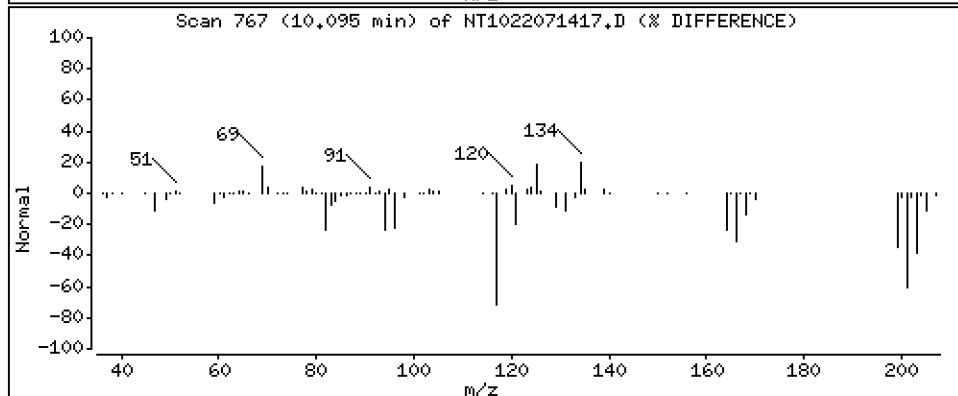
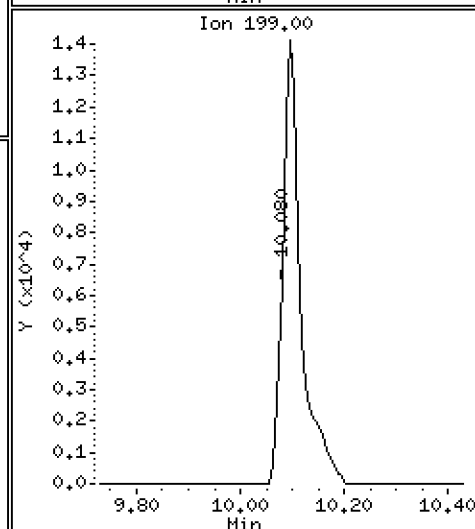
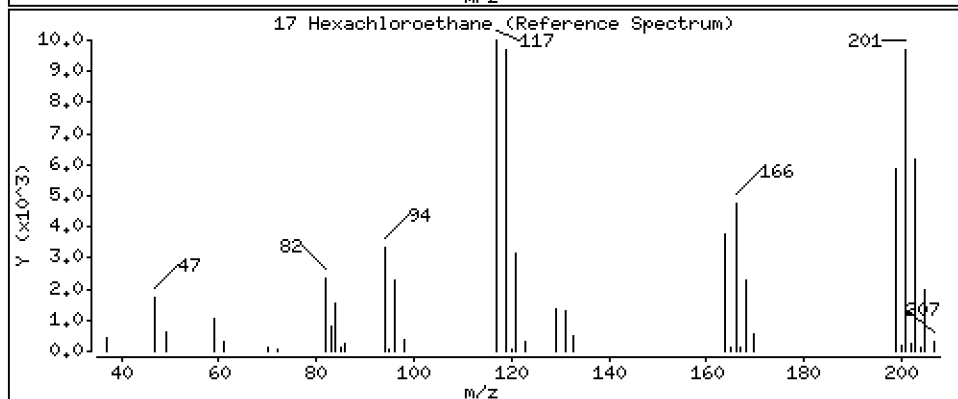
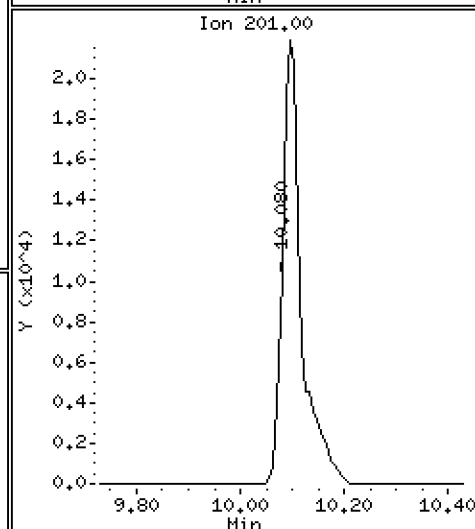
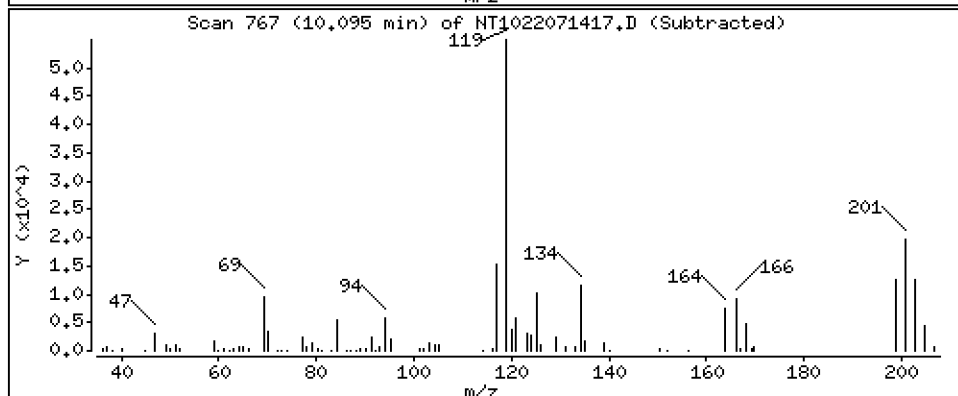
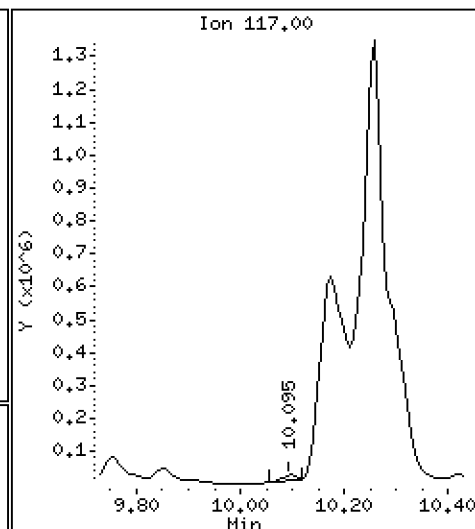
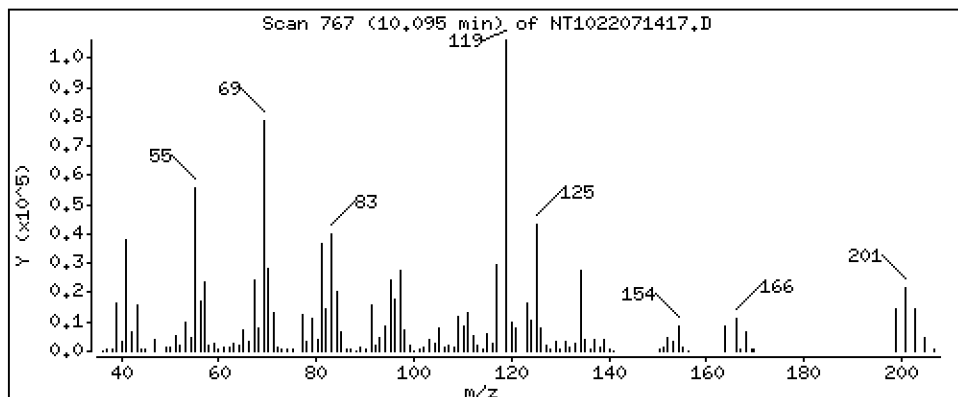
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 1,453 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

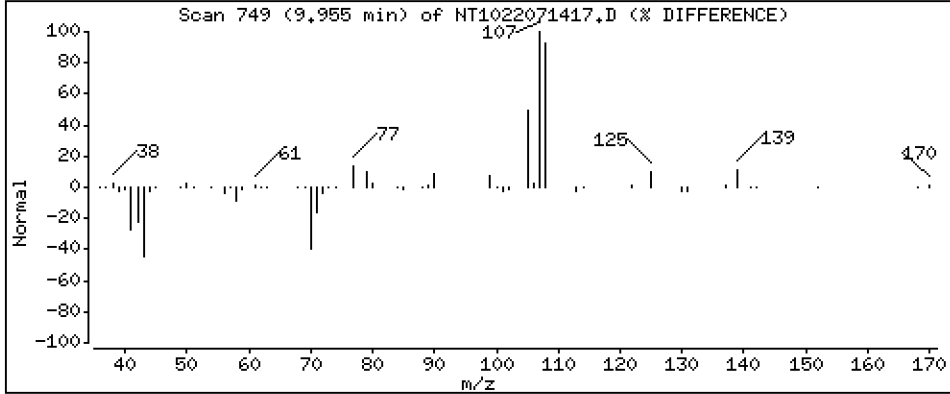
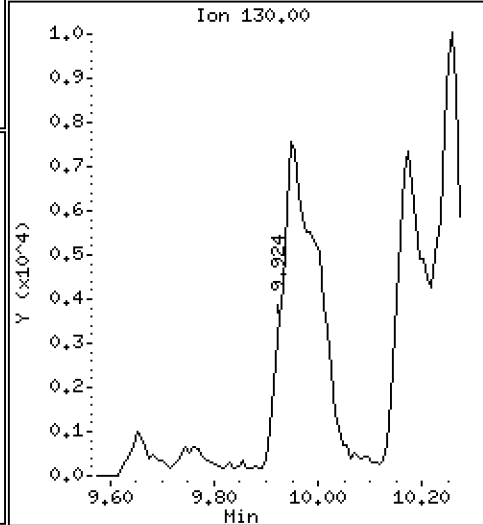
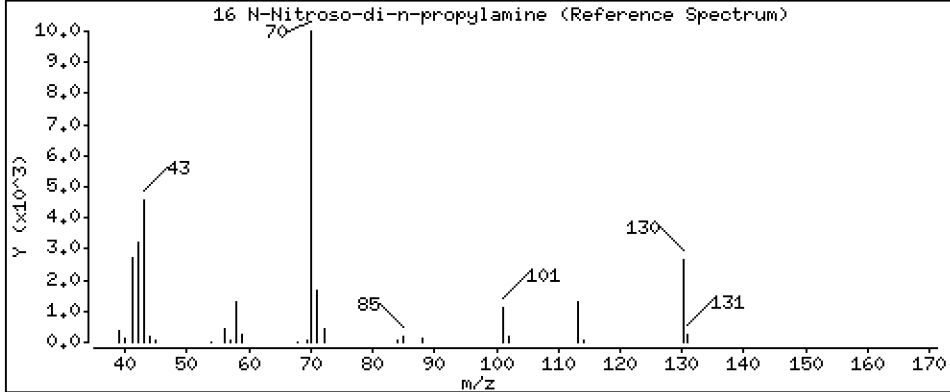
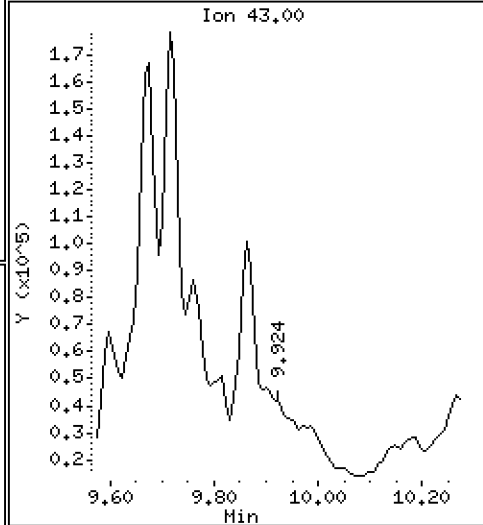
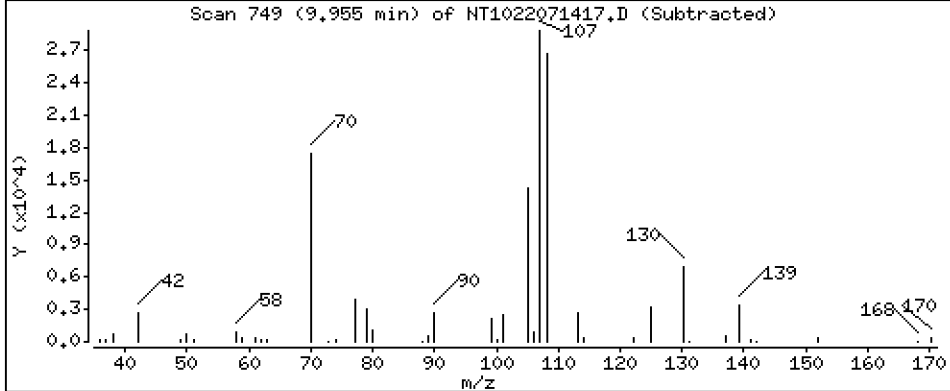
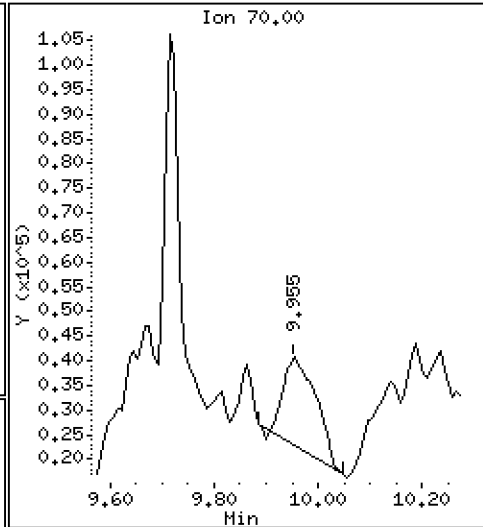
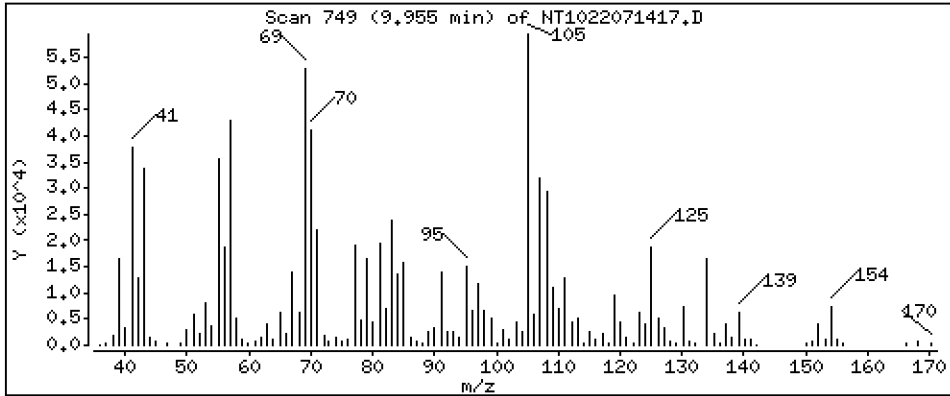
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 2,915 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

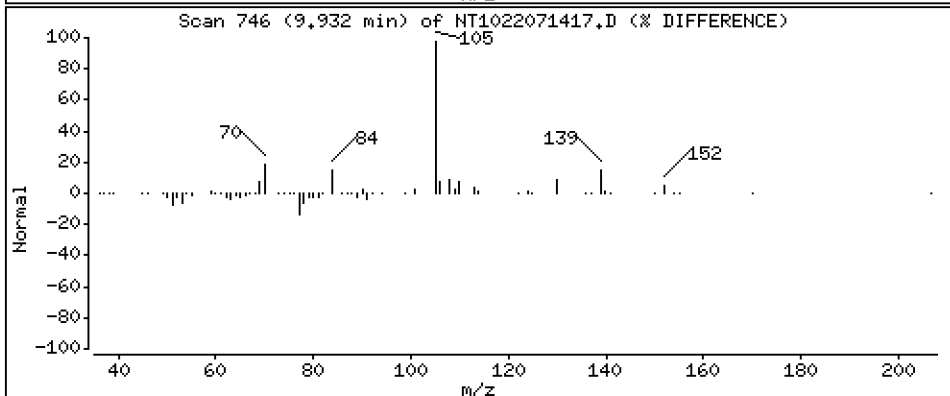
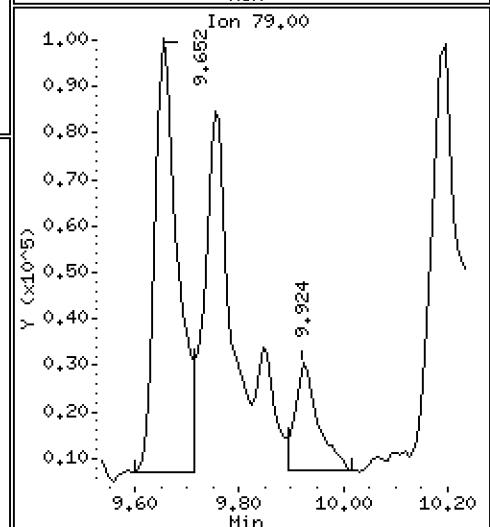
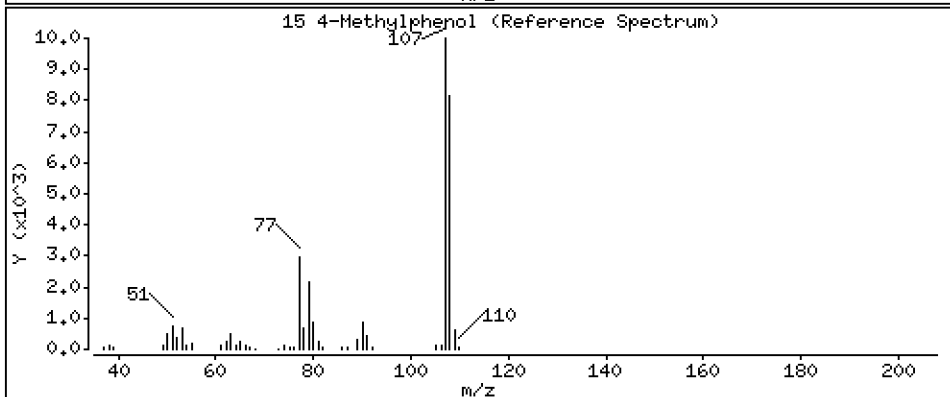
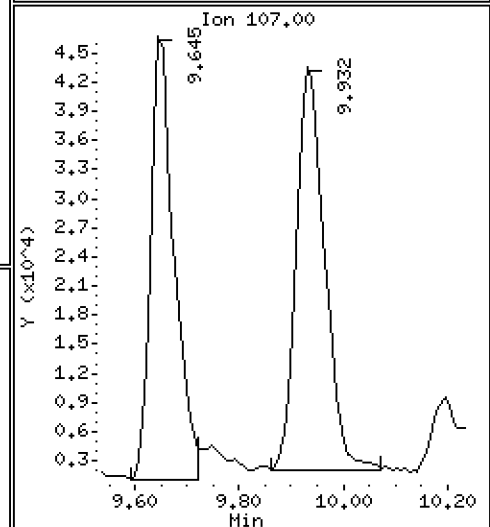
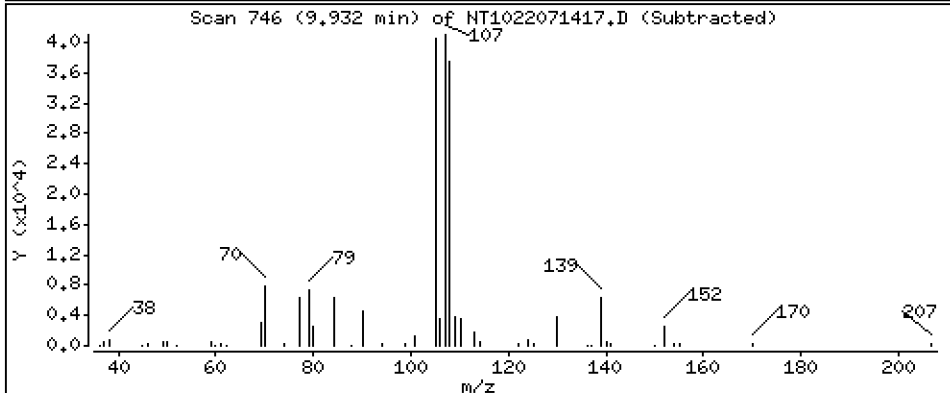
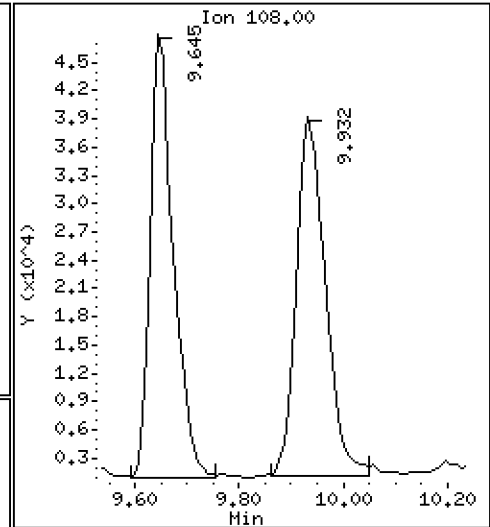
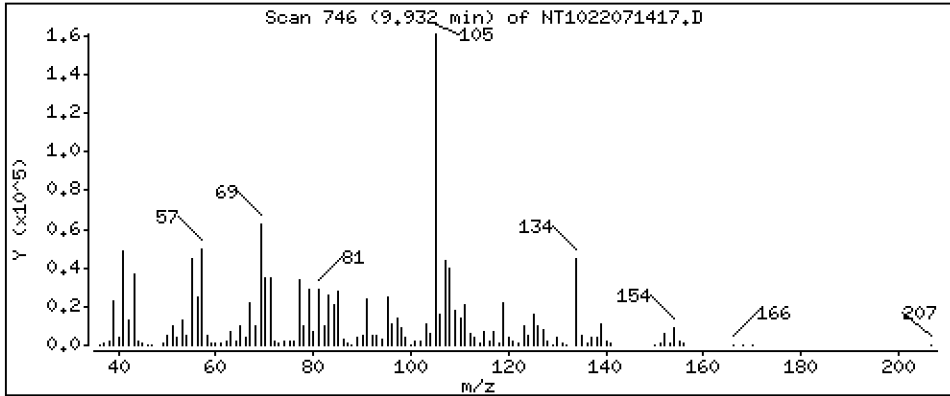
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 3,599 ug/mL

15 4-Methylphenol



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

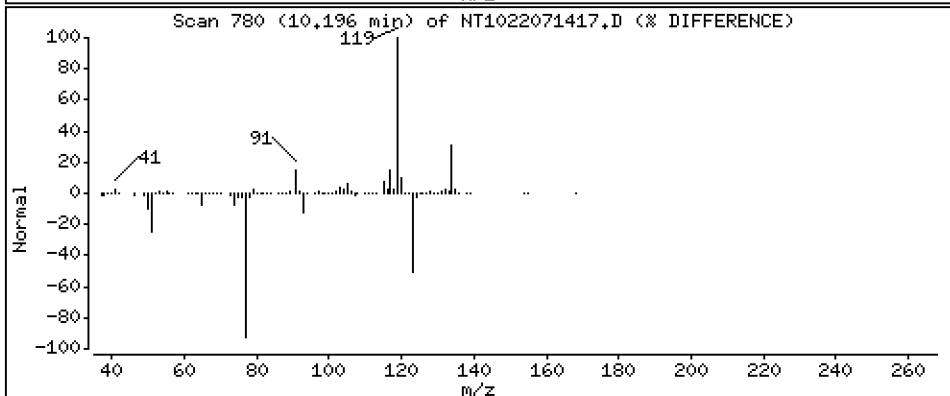
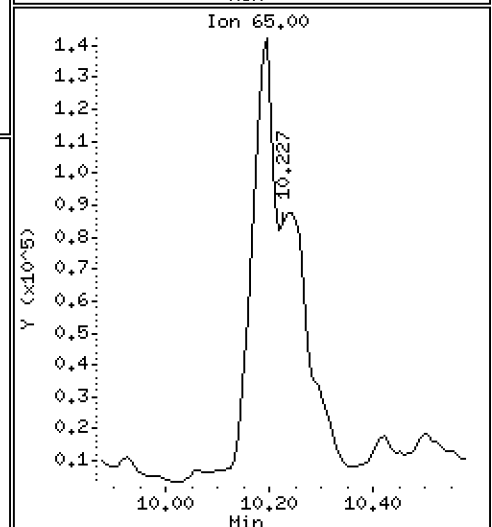
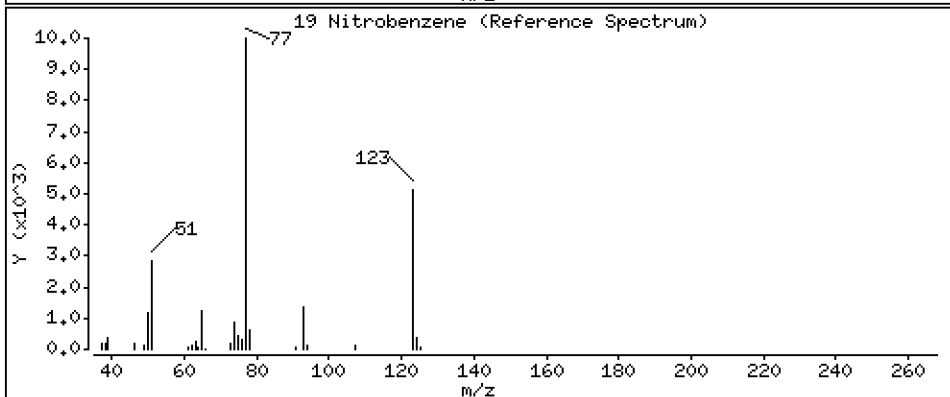
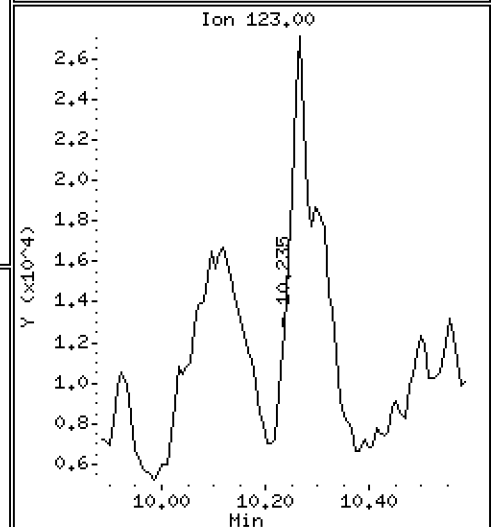
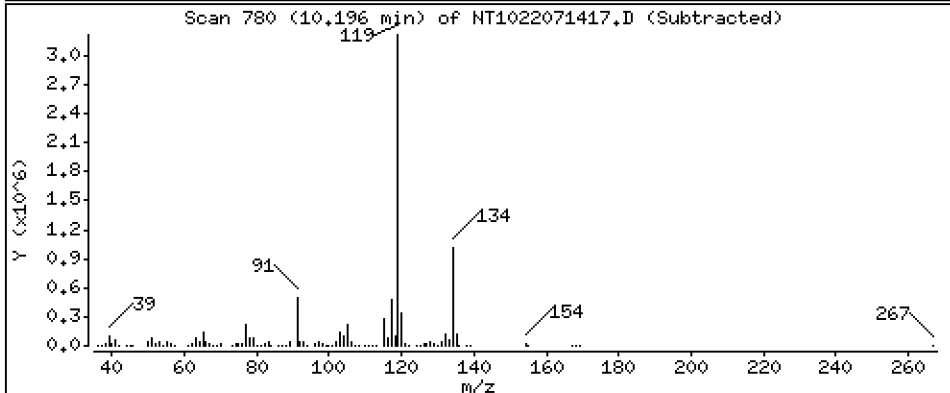
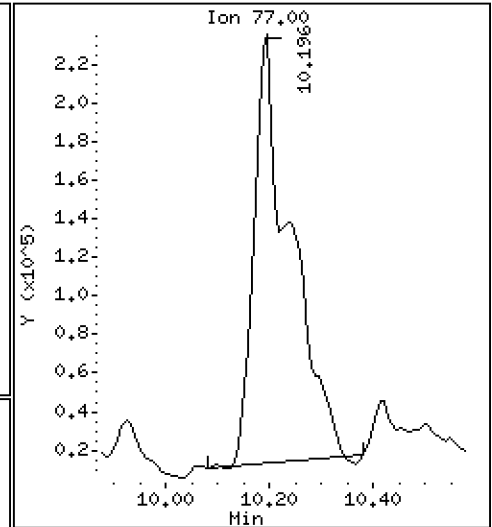
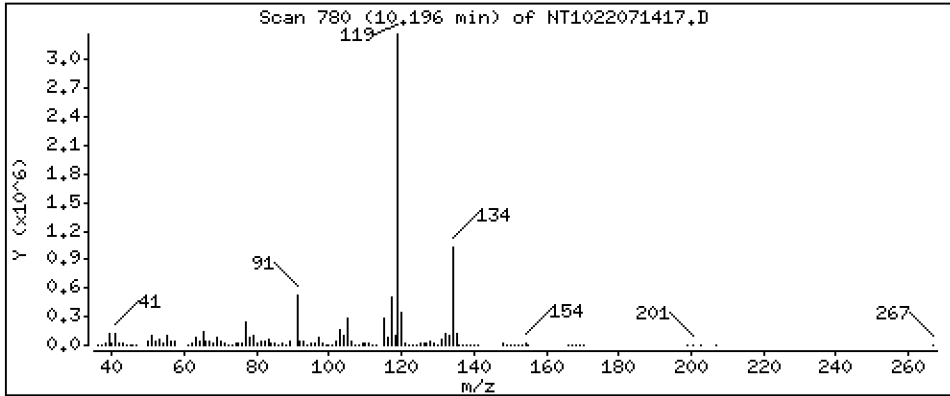
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 27,17 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

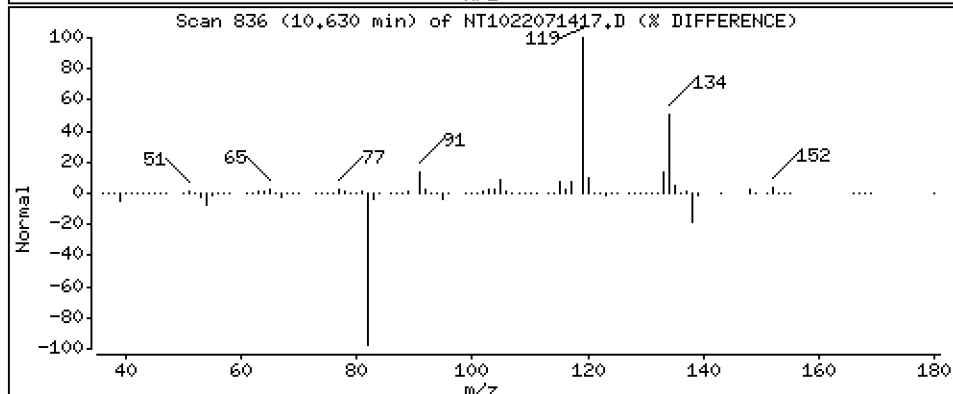
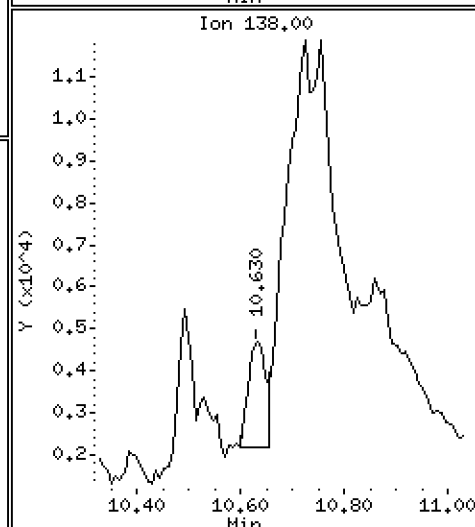
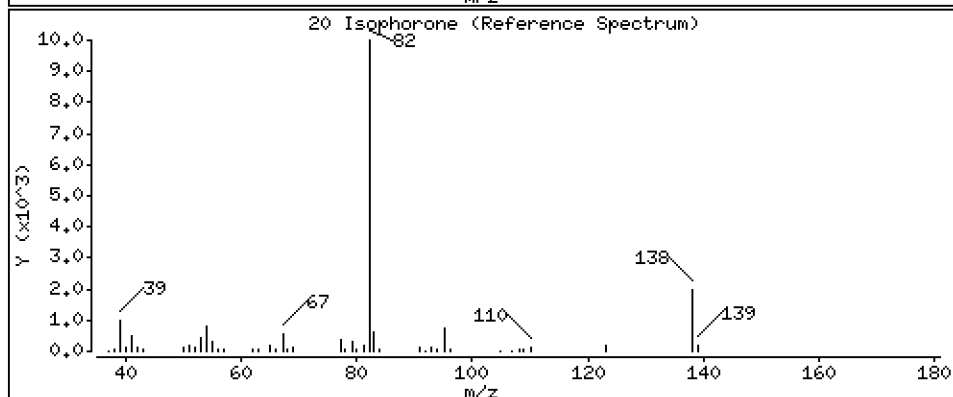
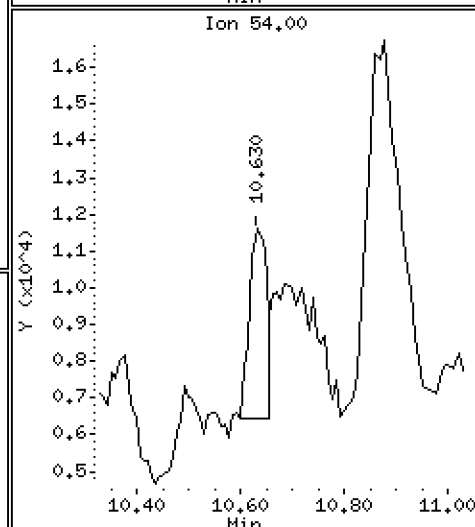
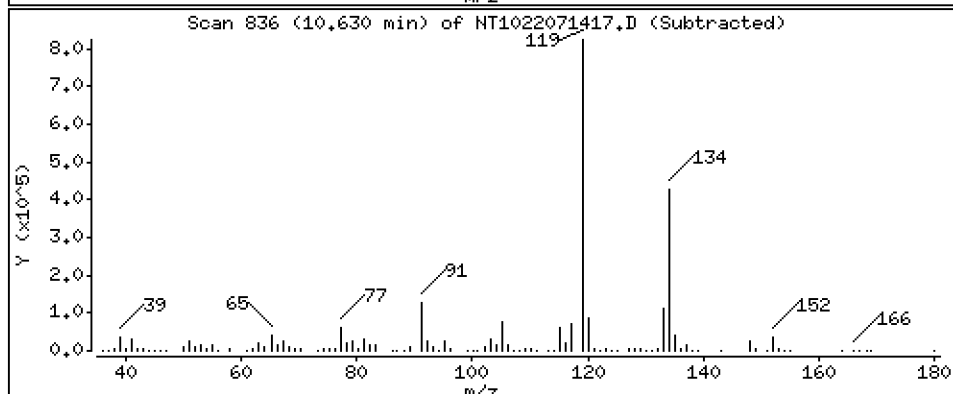
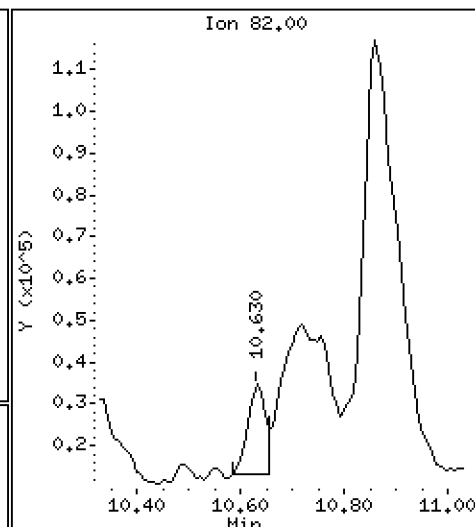
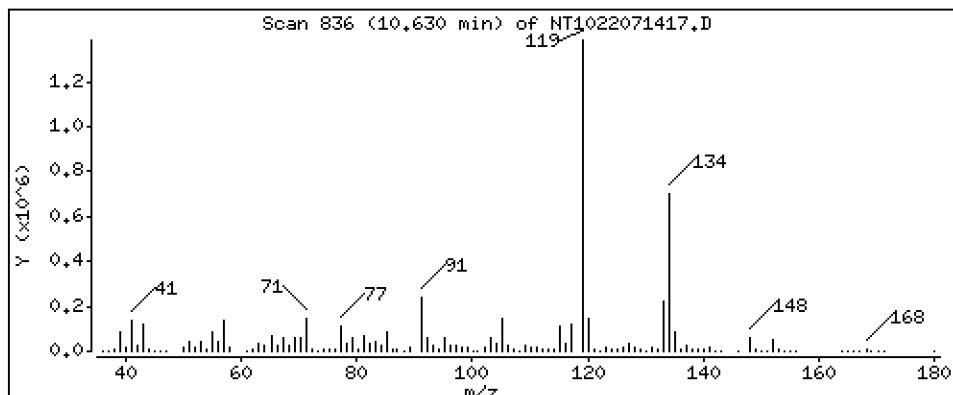
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,8389 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

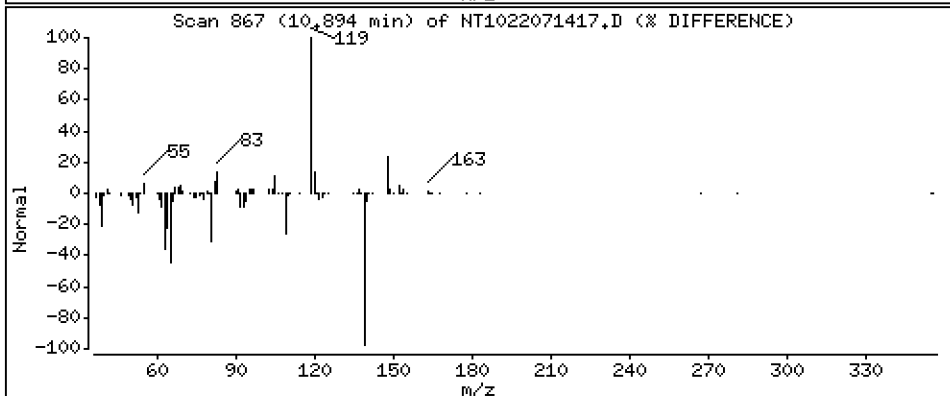
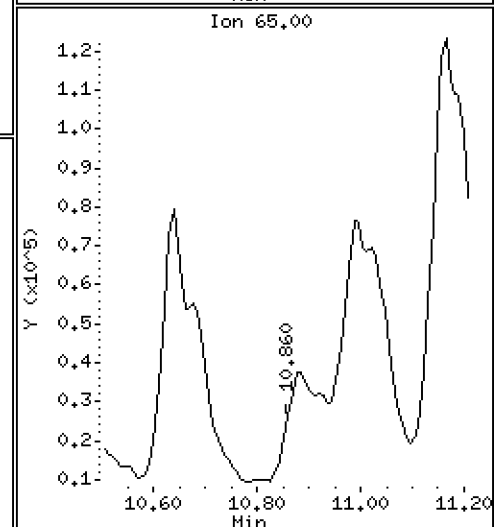
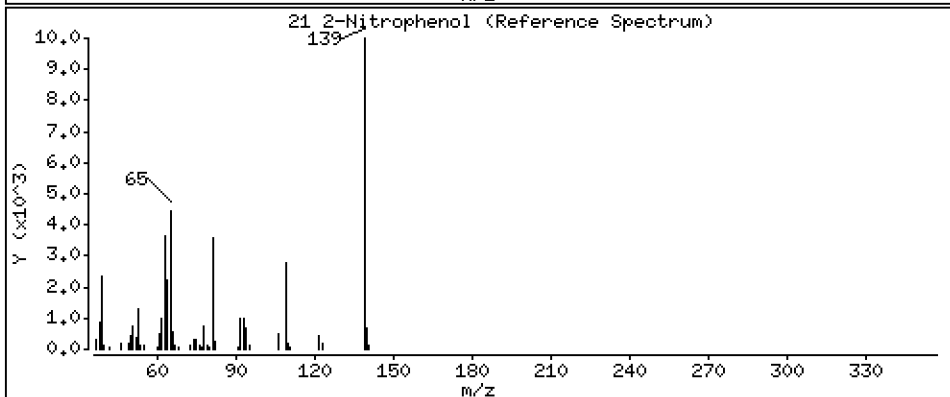
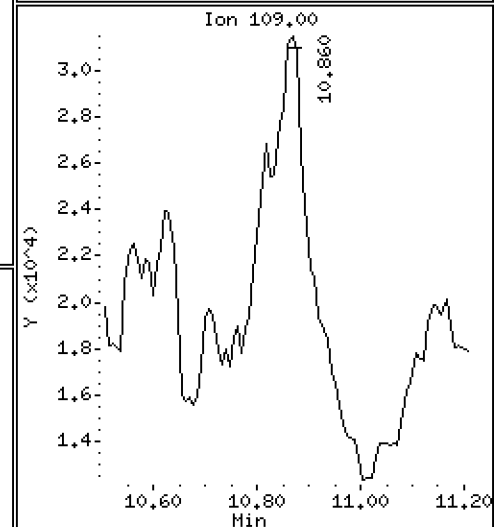
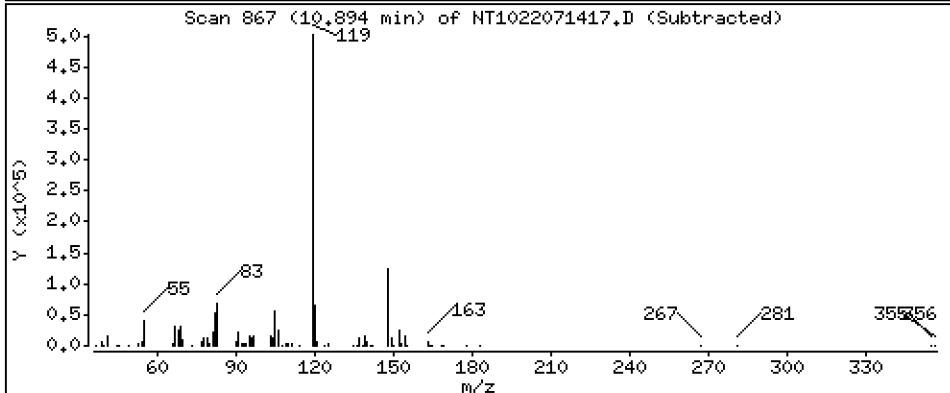
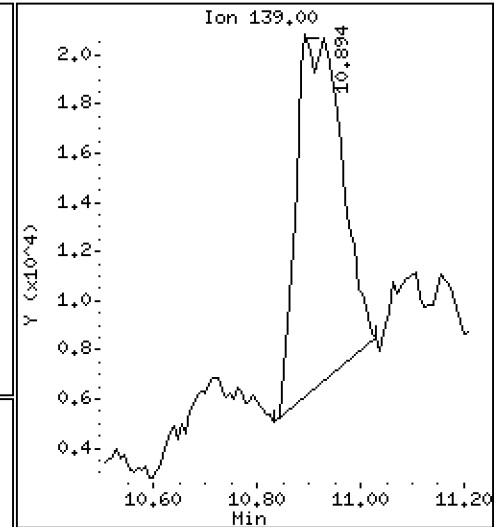
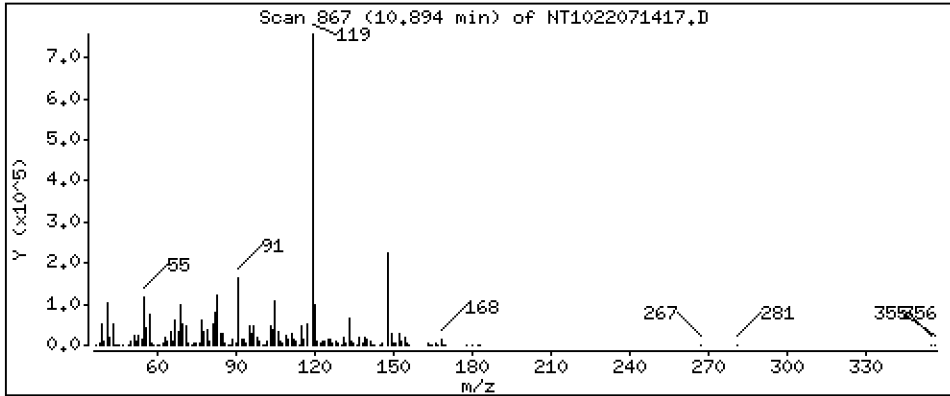
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

21 2-Nitrophenol

Concentration: 3.417 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

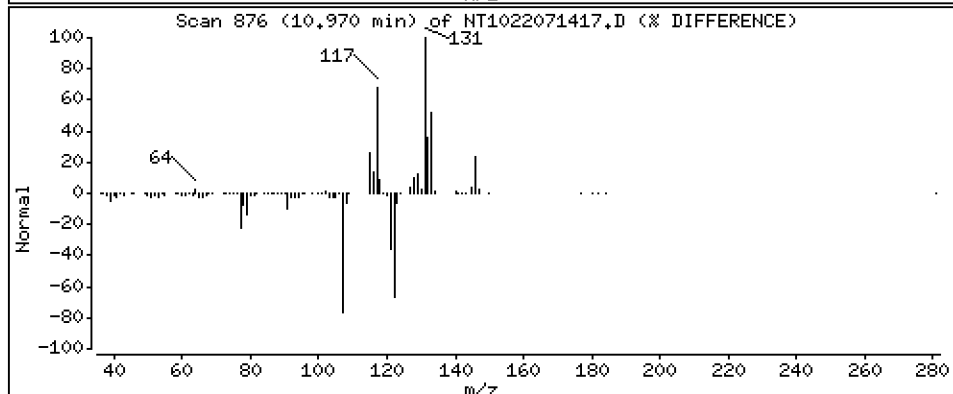
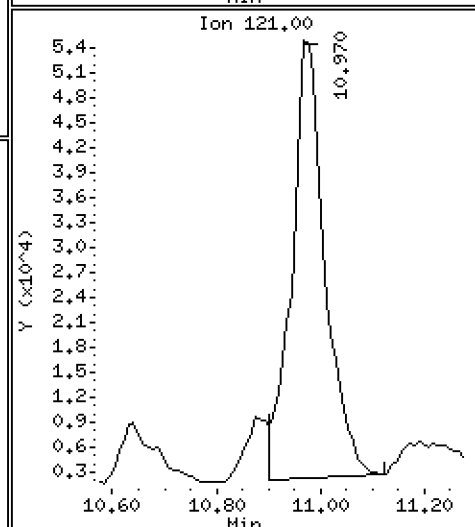
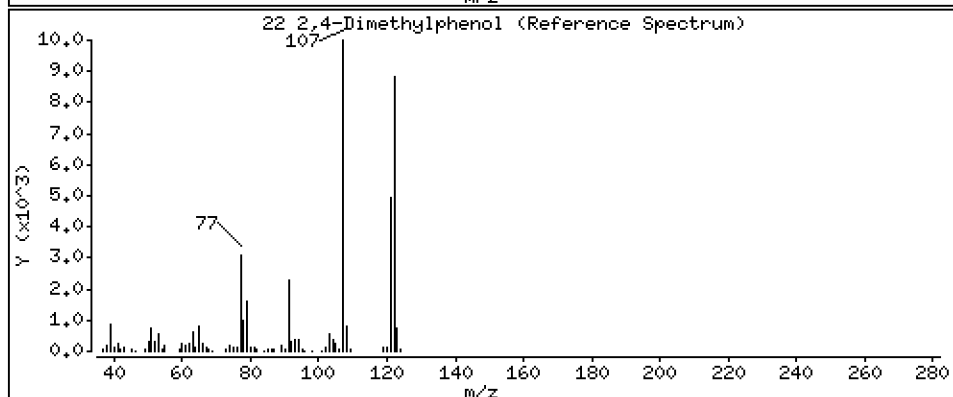
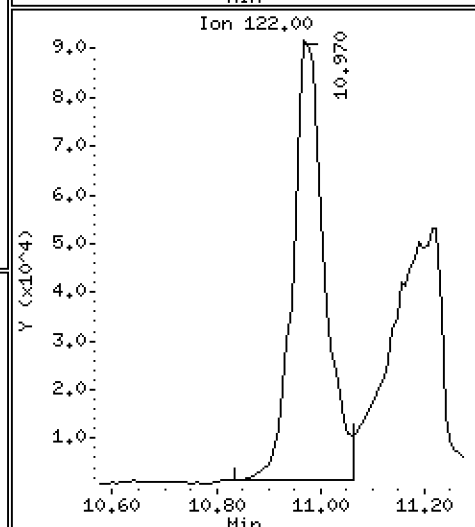
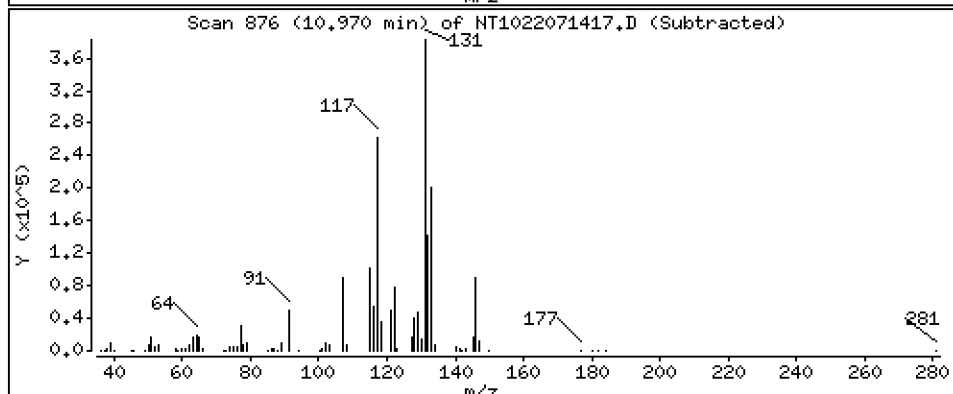
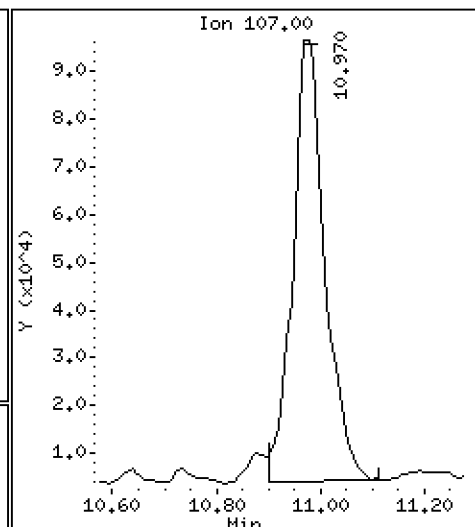
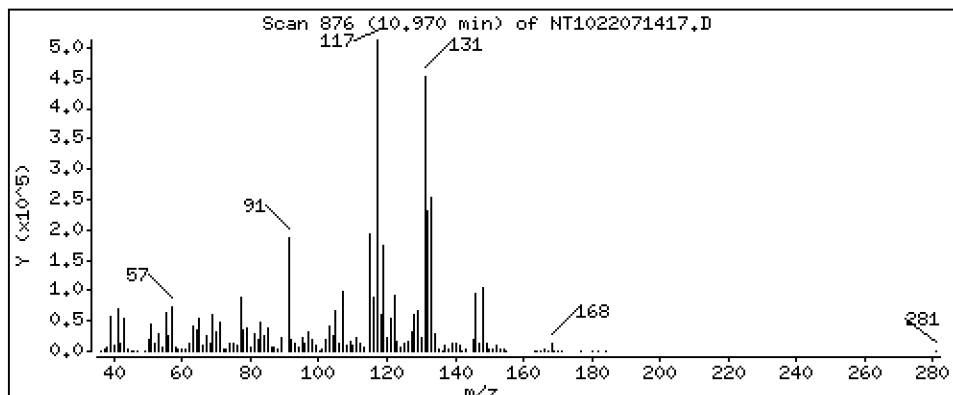
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 12,85 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

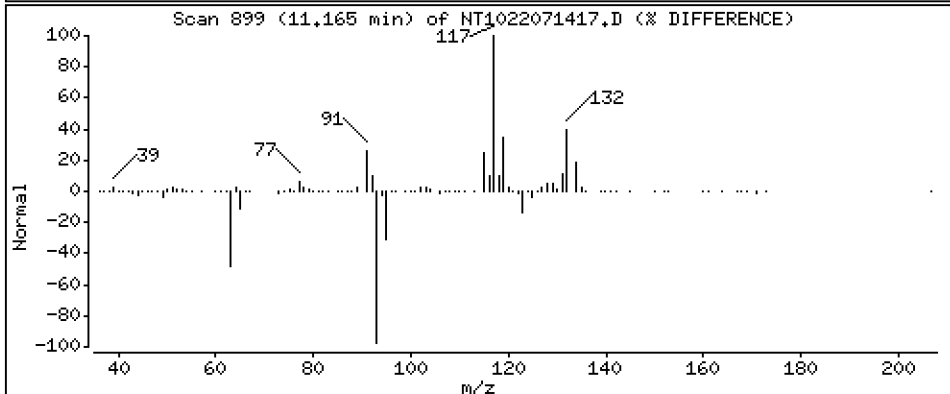
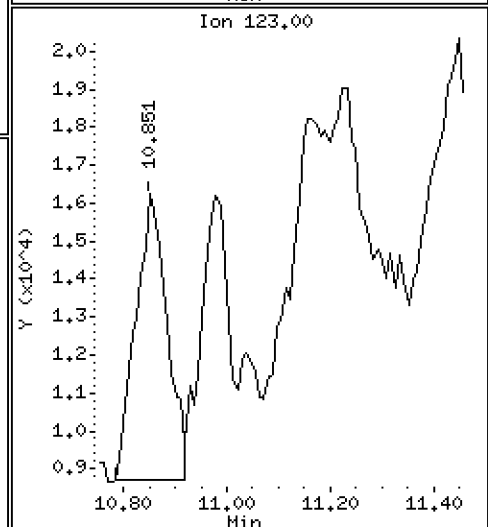
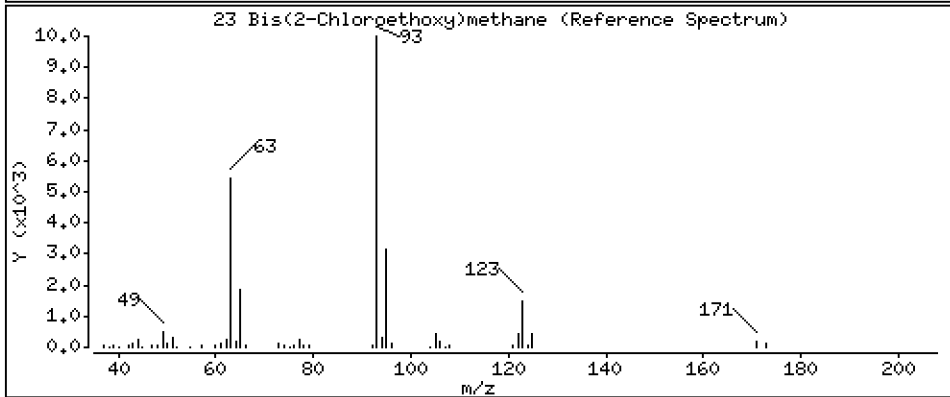
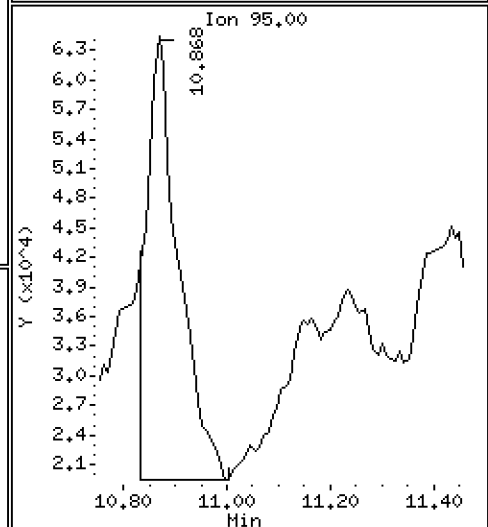
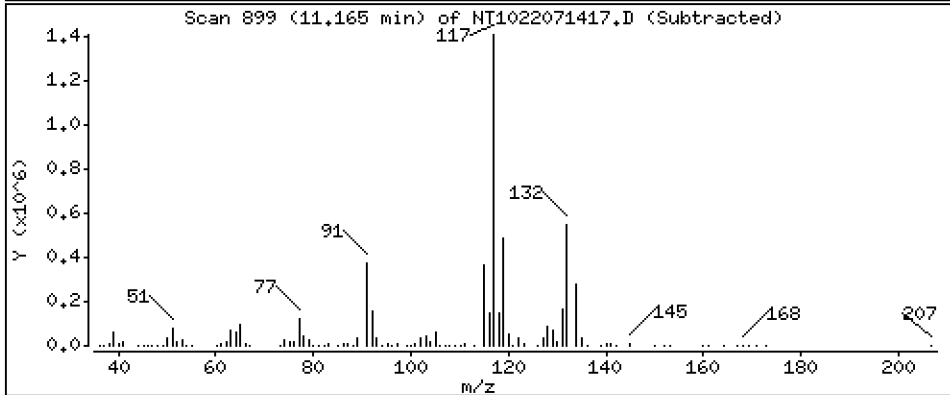
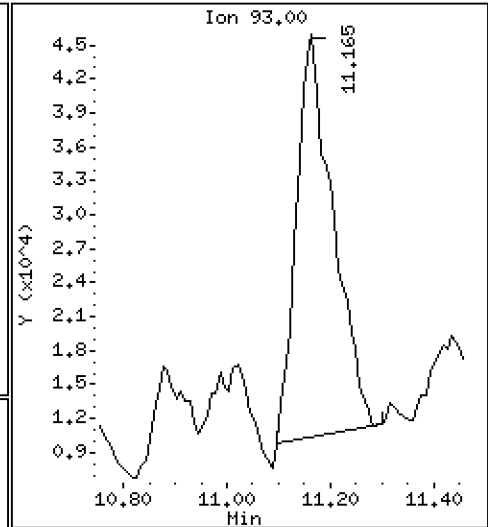
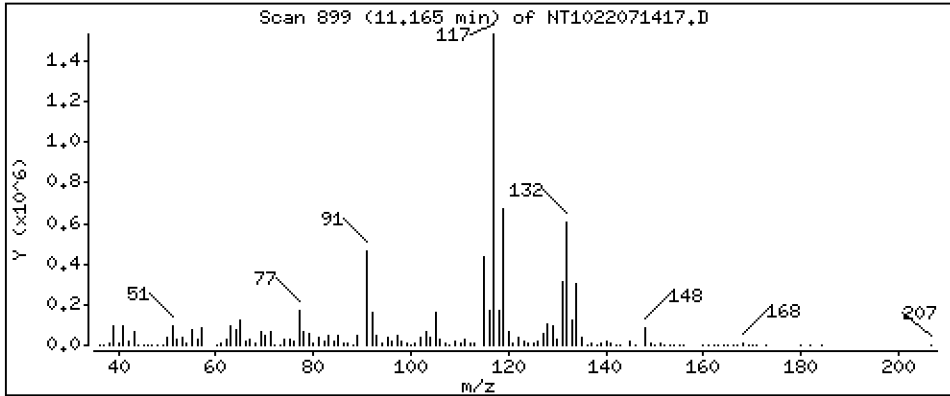
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,014 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

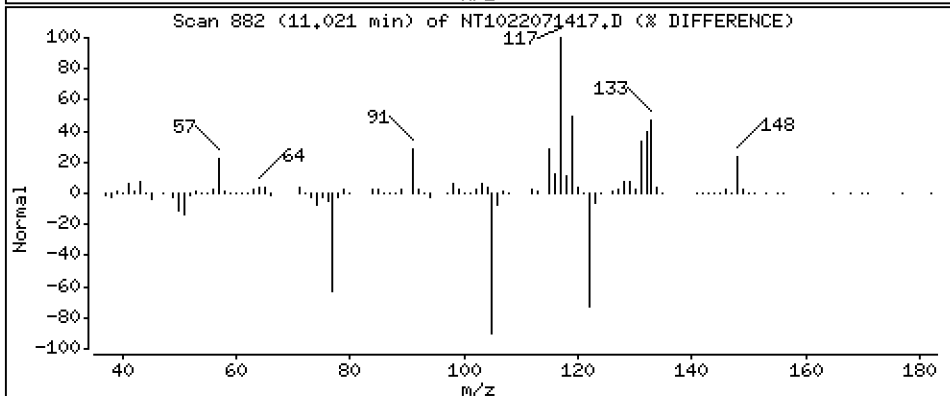
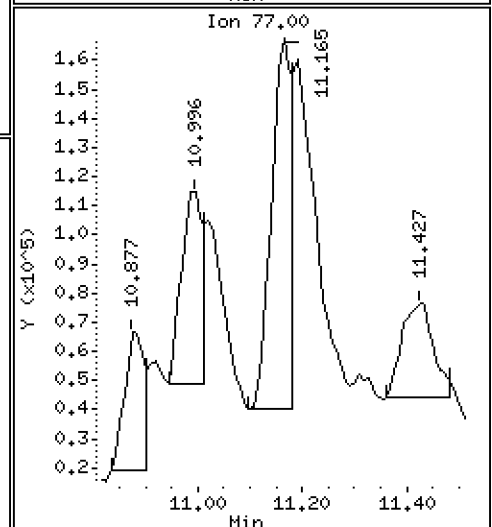
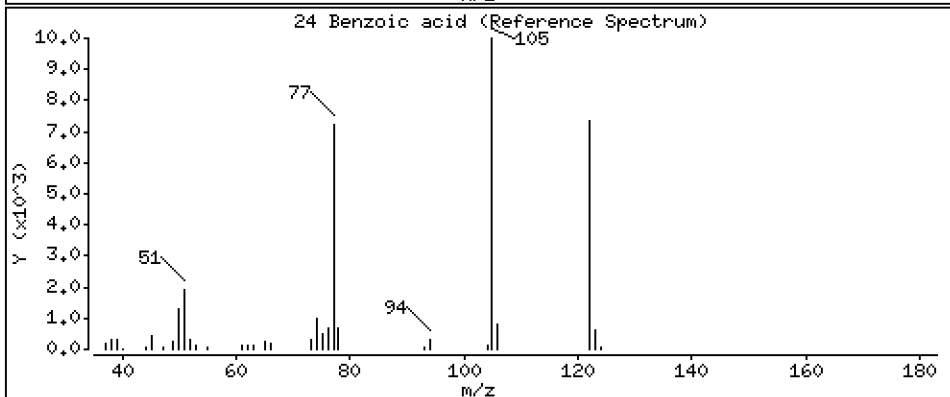
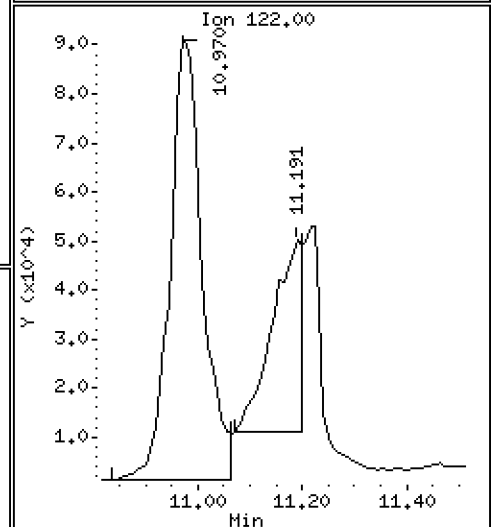
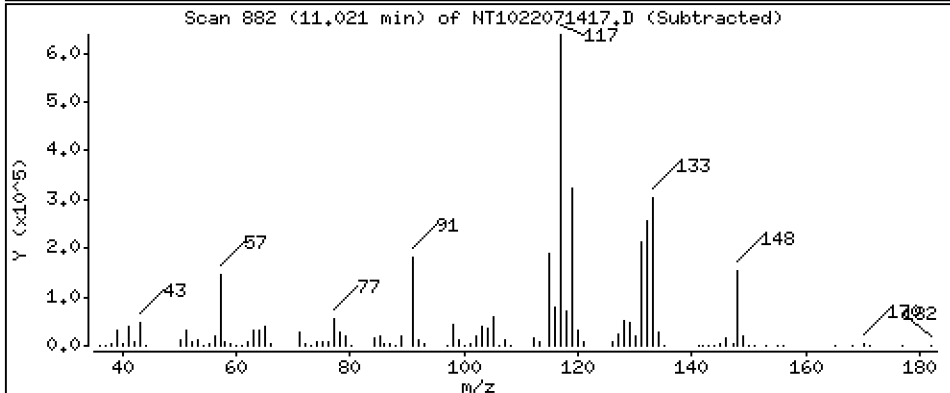
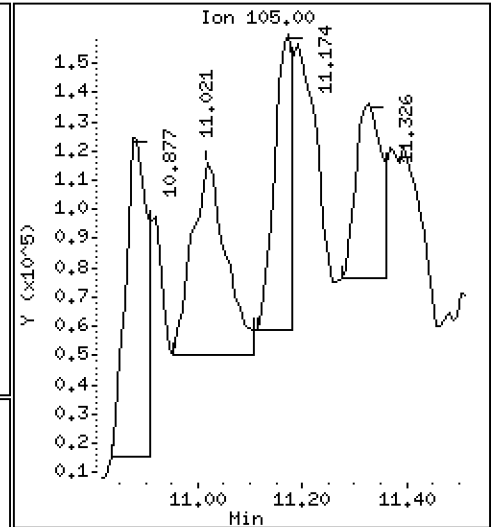
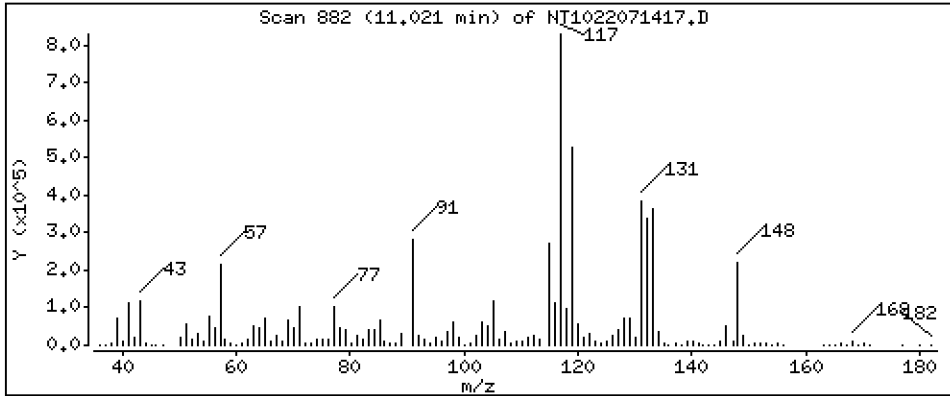
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 18.00 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

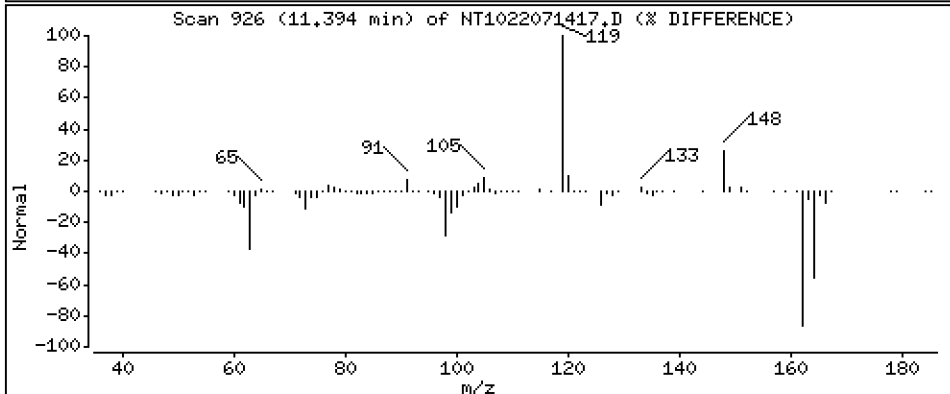
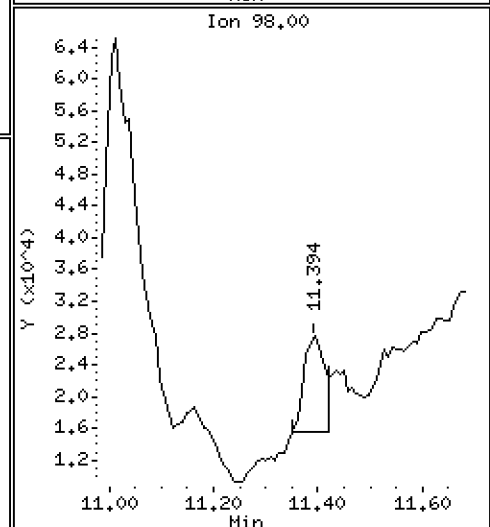
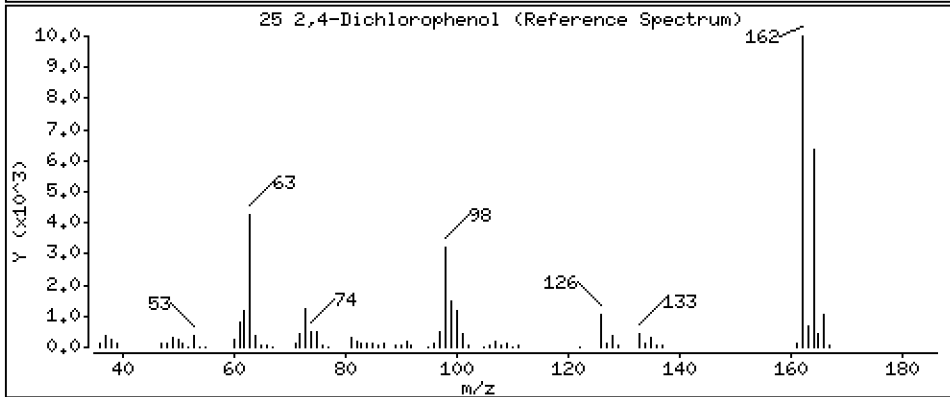
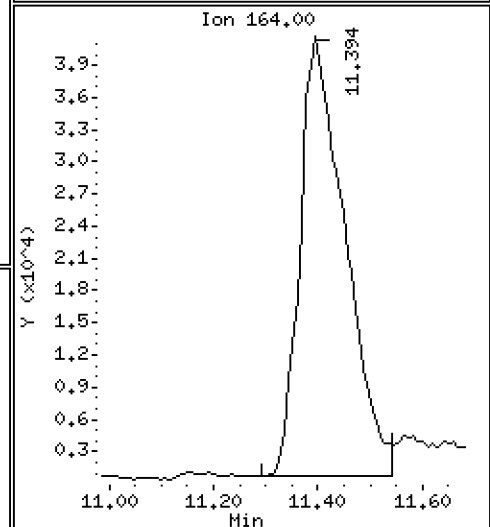
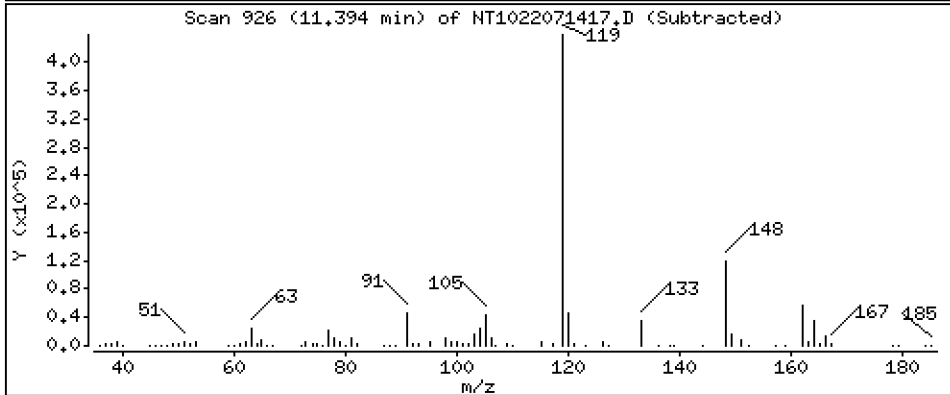
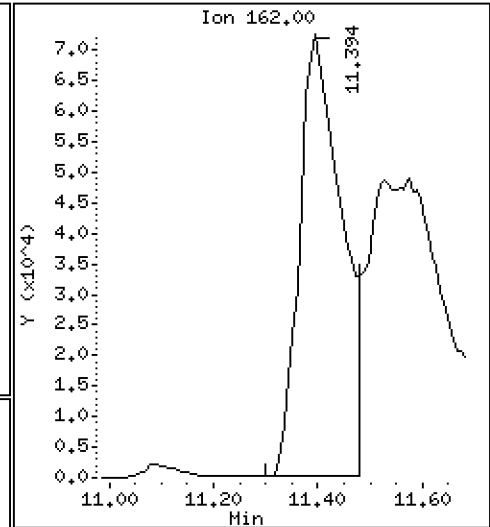
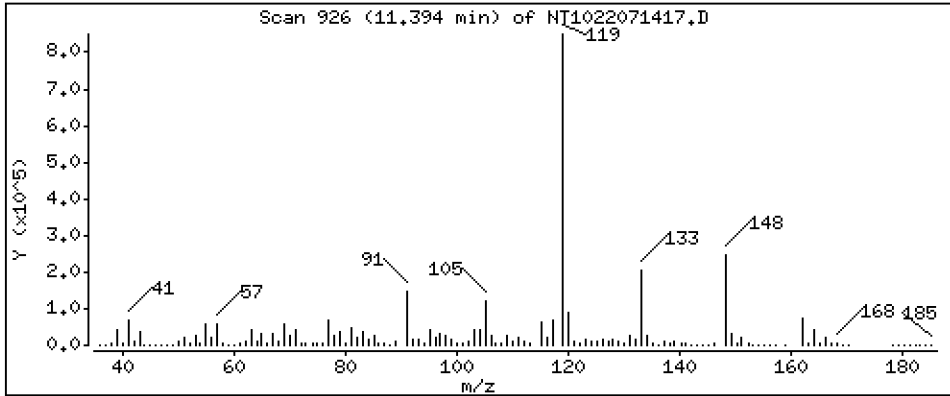
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 12,22 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

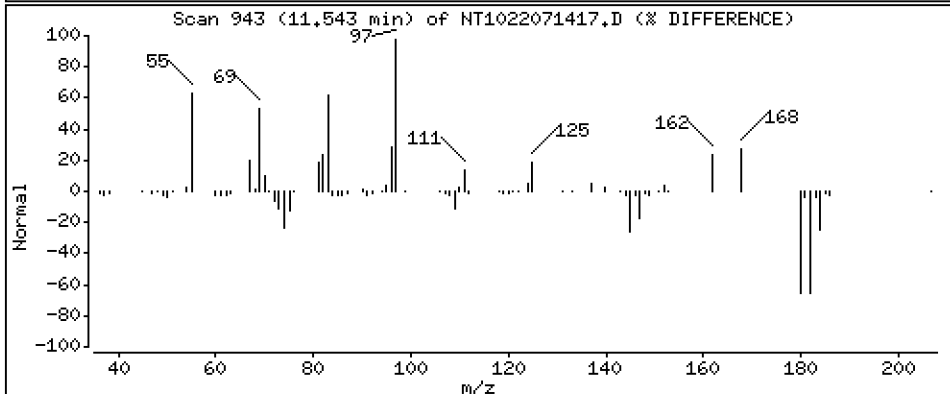
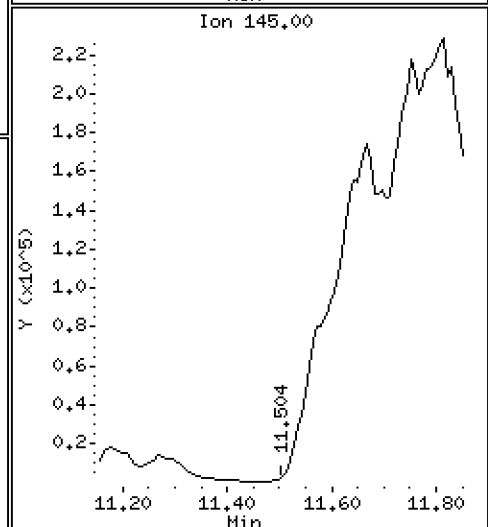
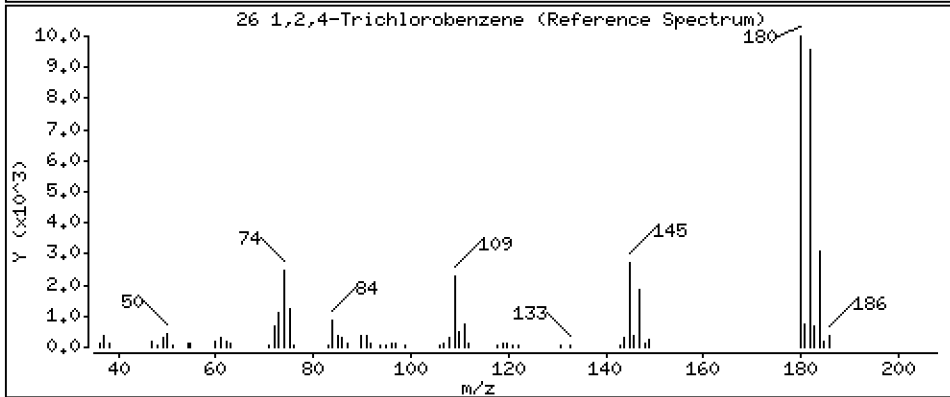
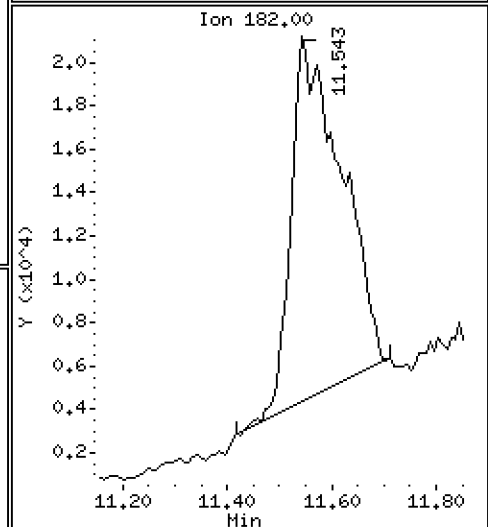
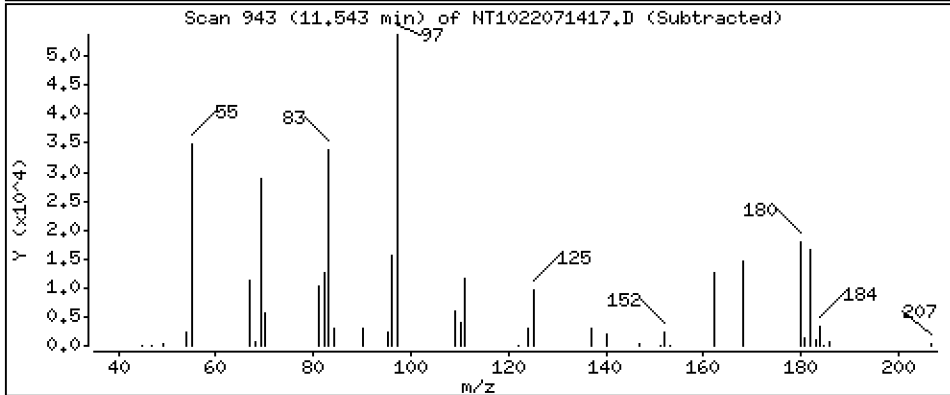
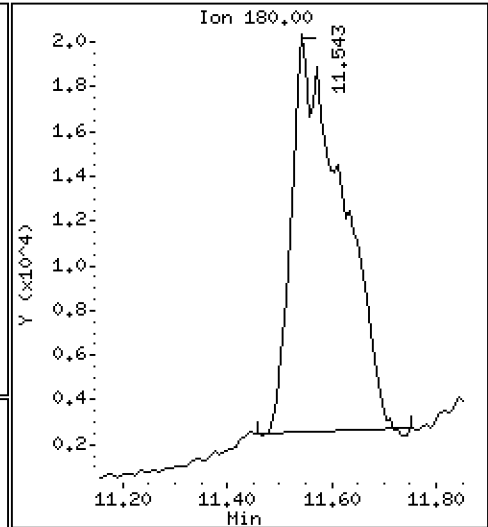
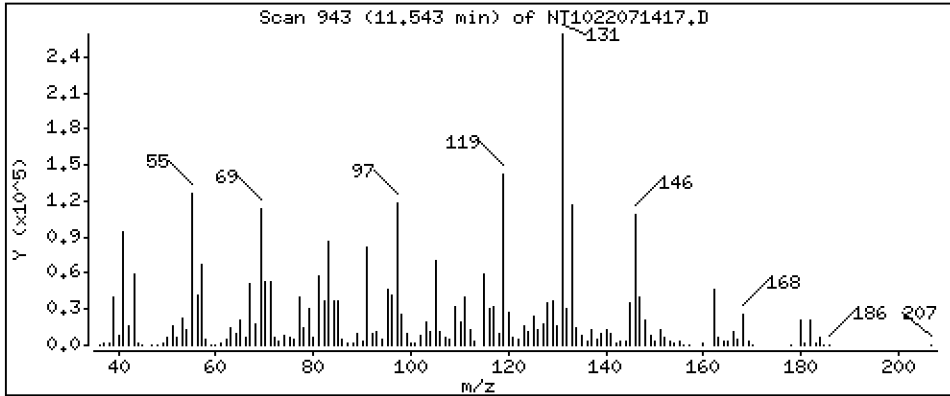
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 3,550 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

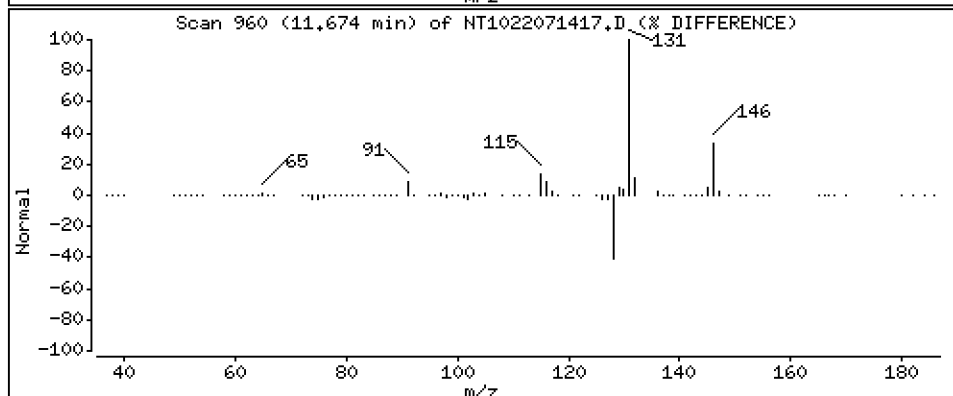
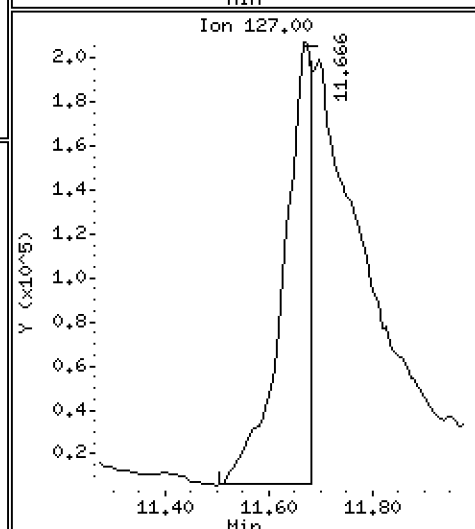
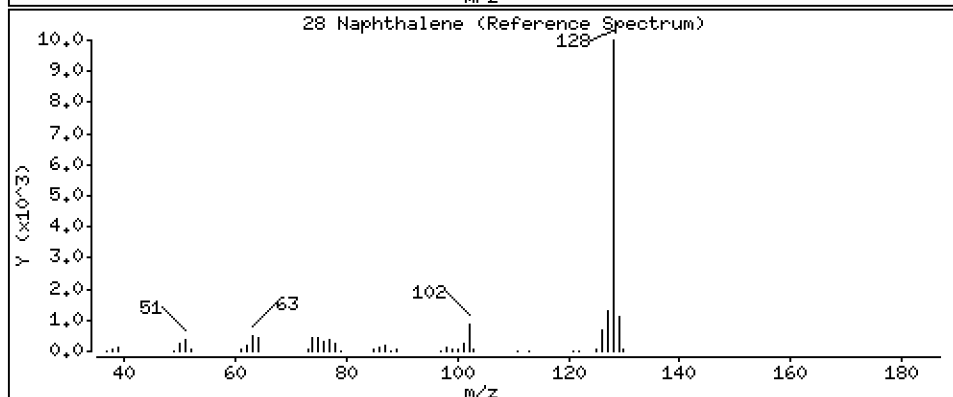
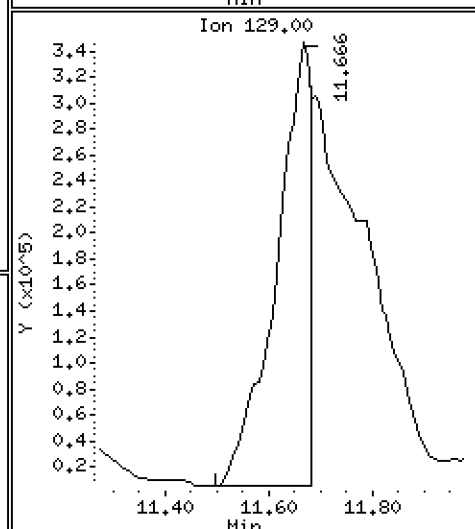
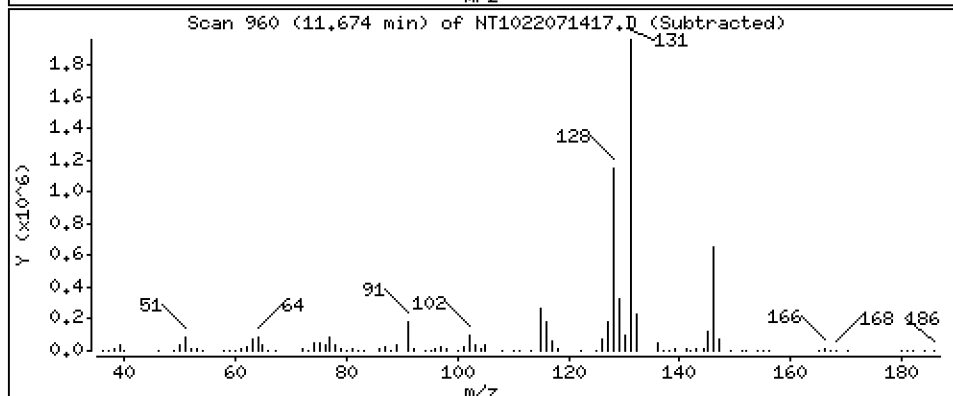
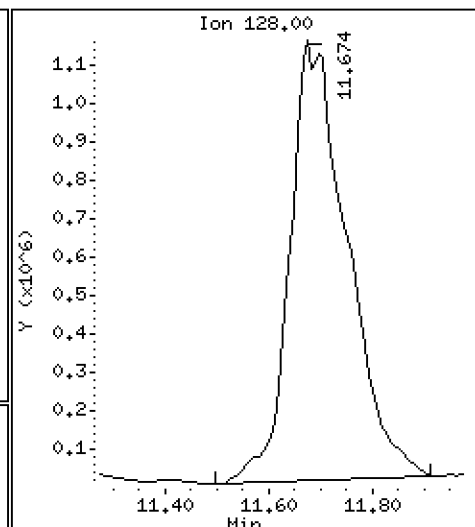
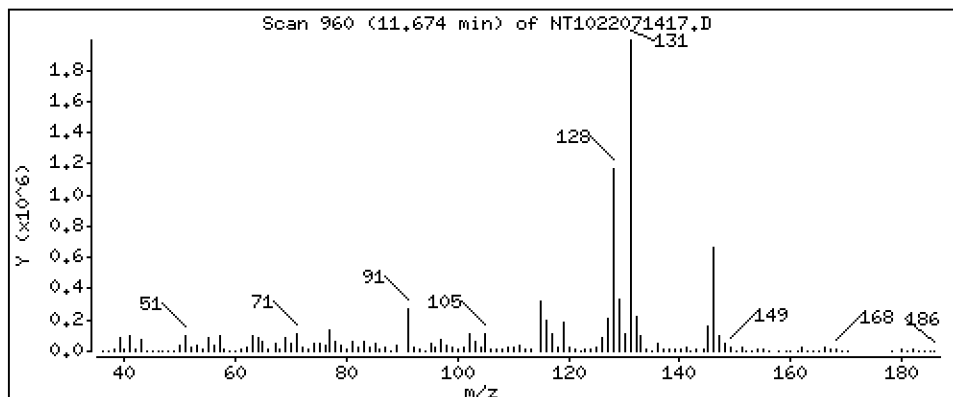
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 94,04 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

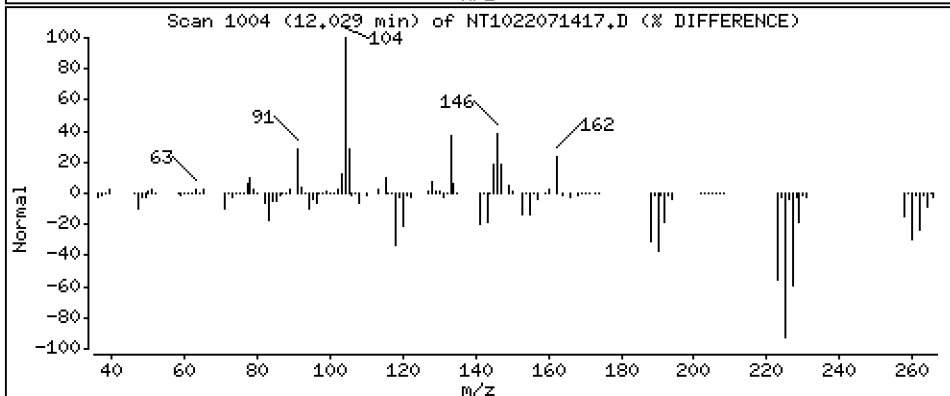
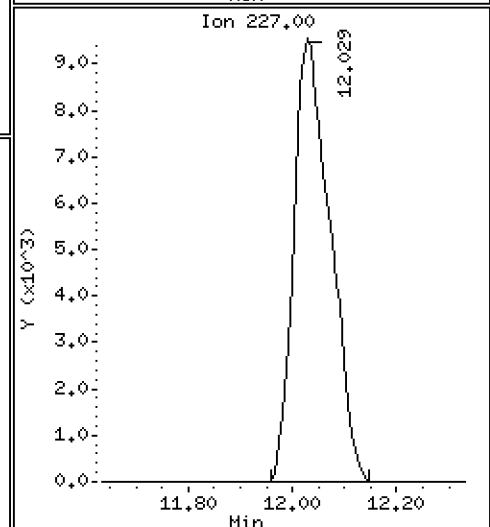
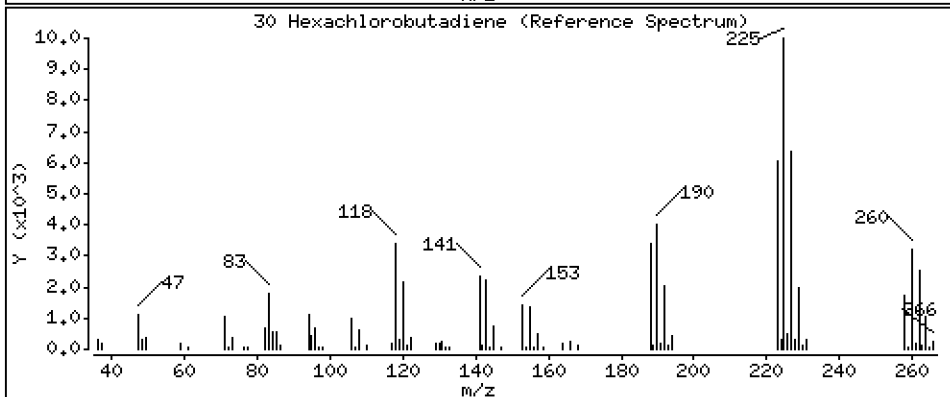
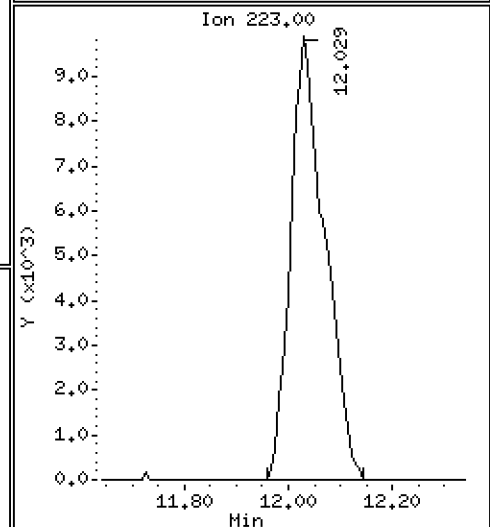
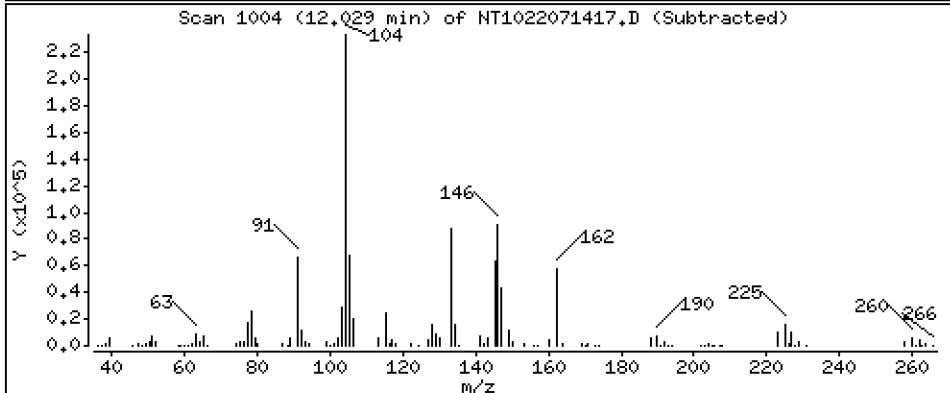
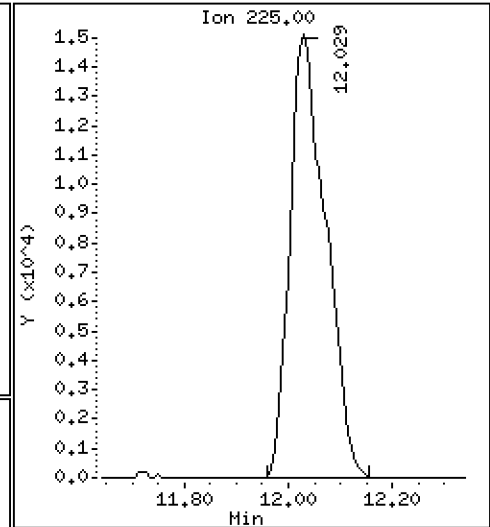
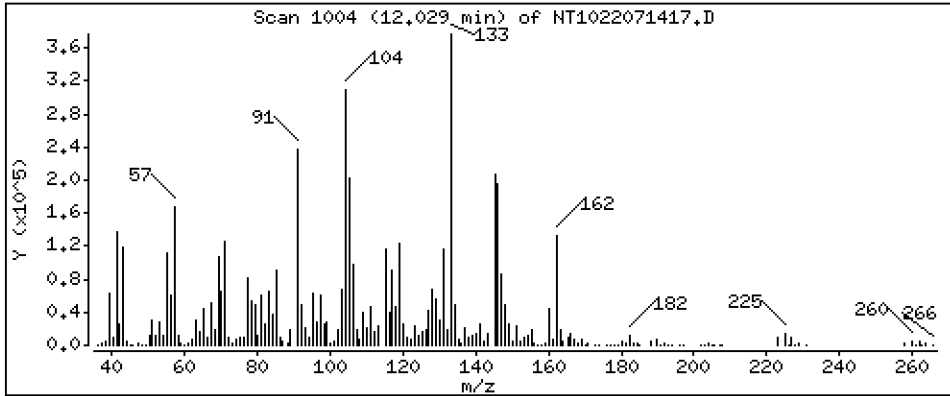
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,513 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

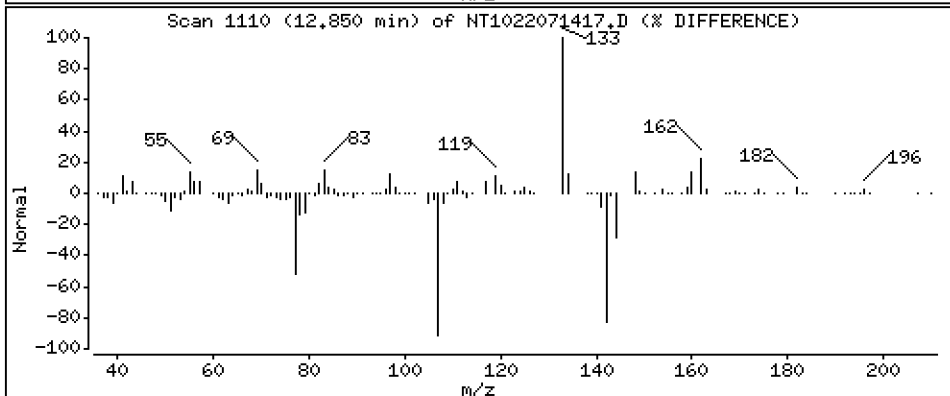
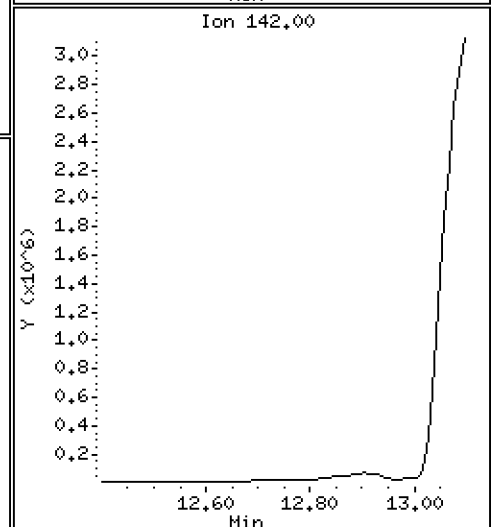
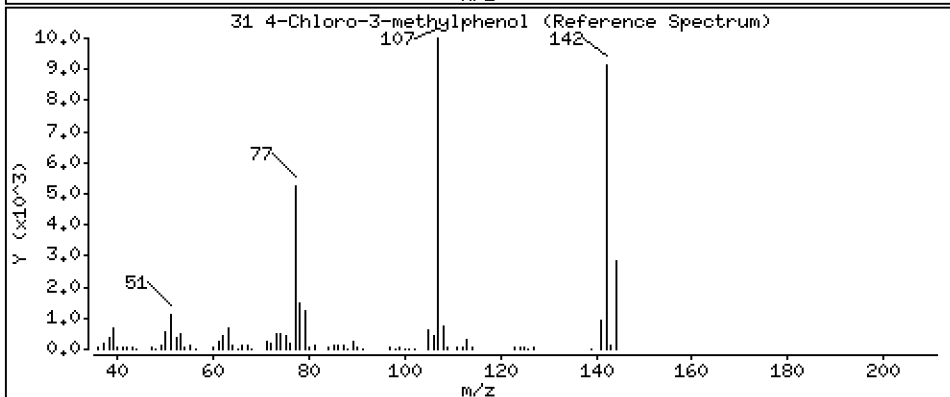
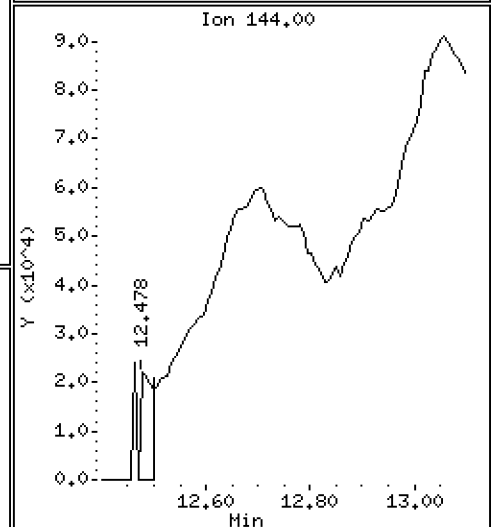
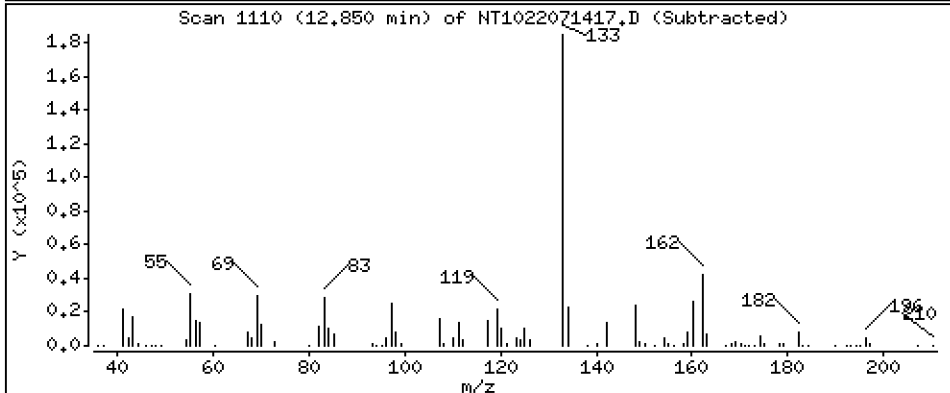
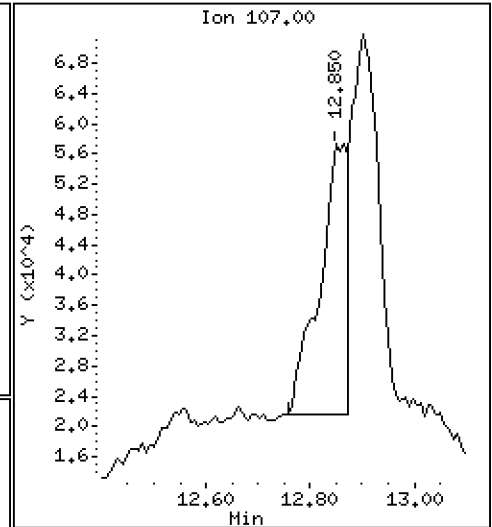
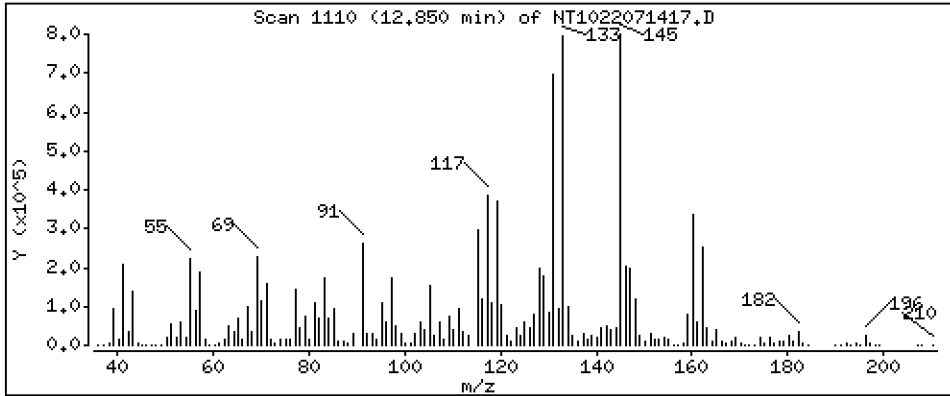
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 3,659 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

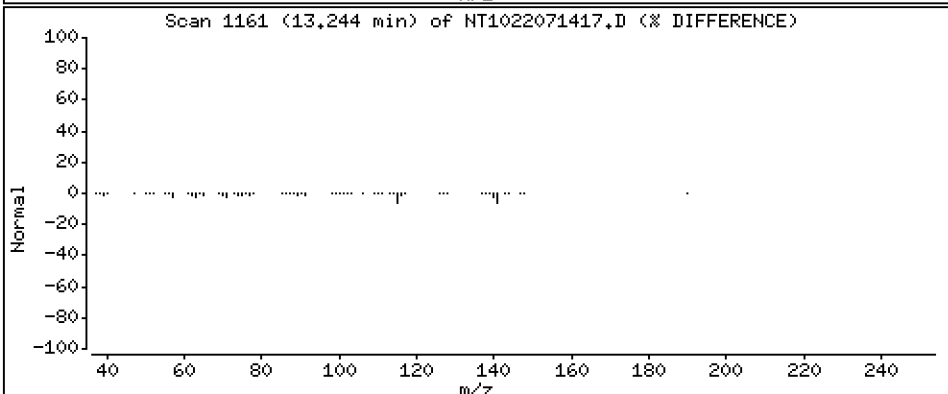
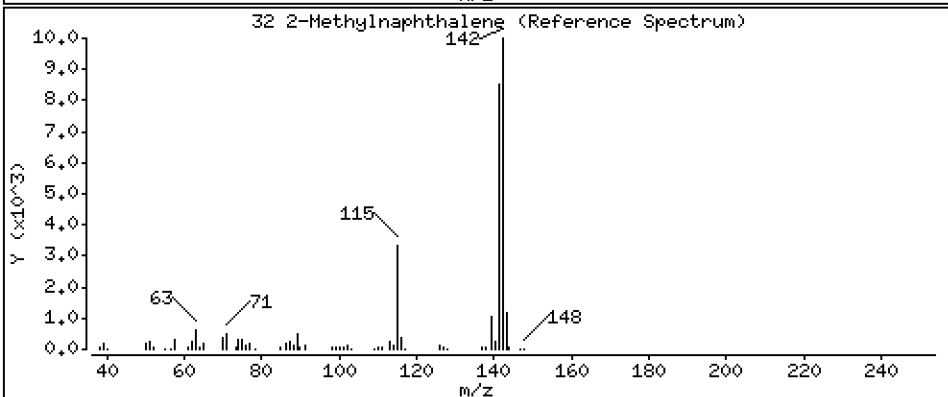
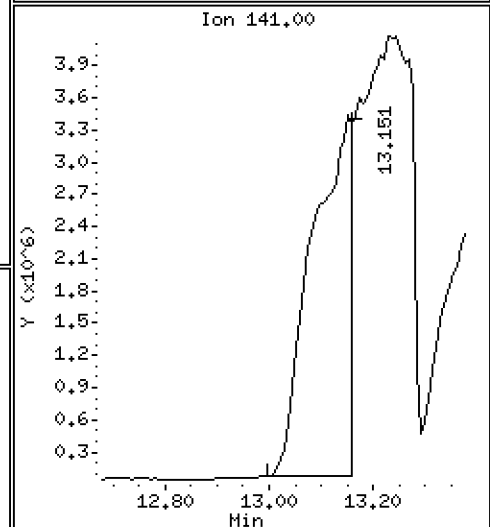
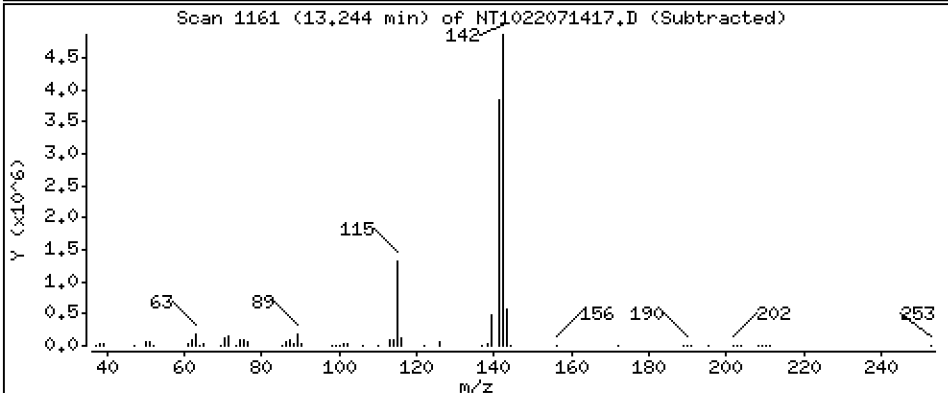
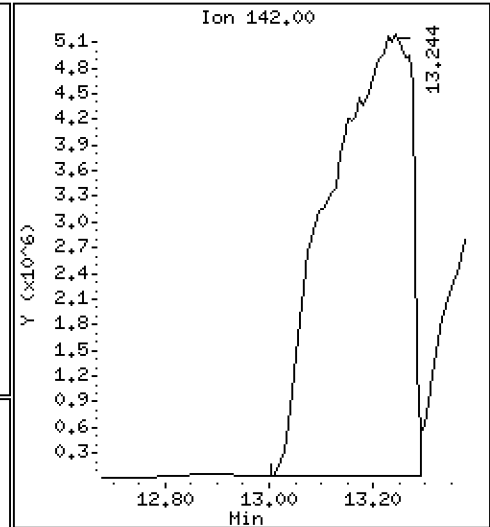
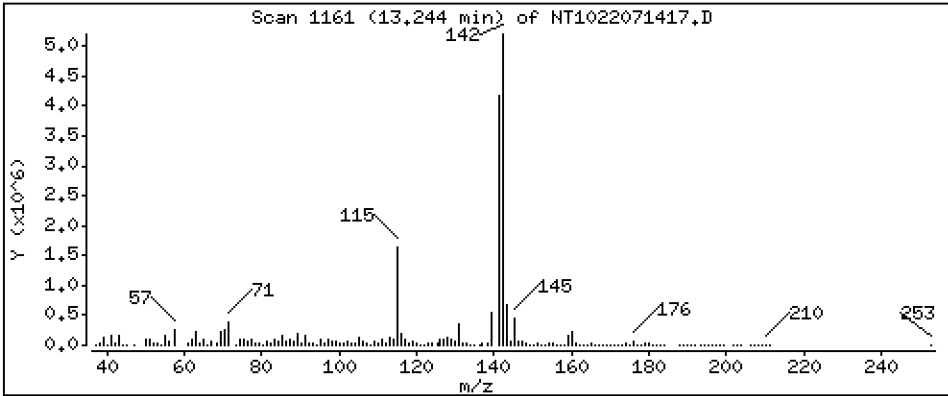
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 587,4 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

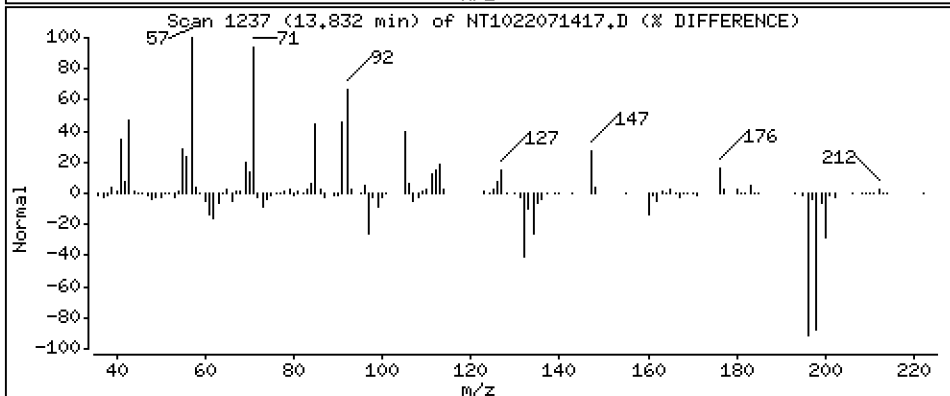
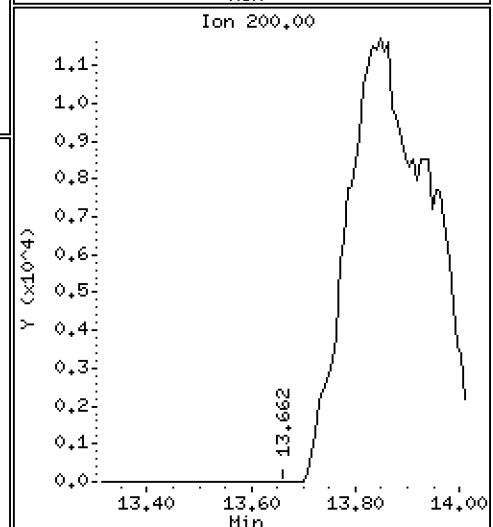
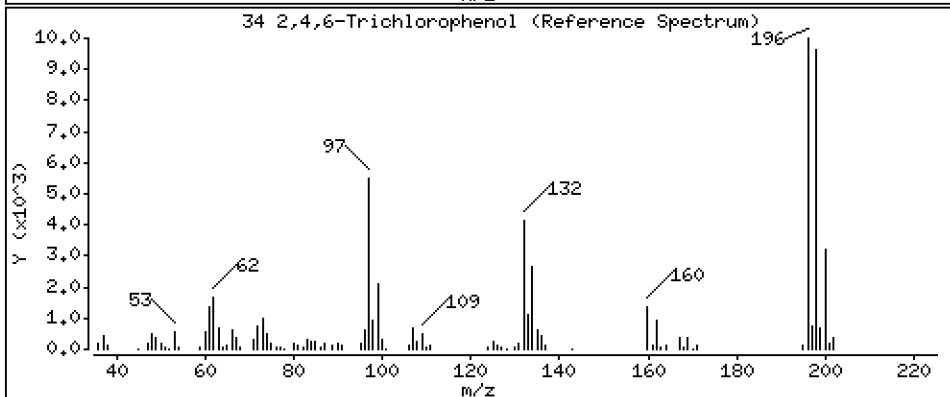
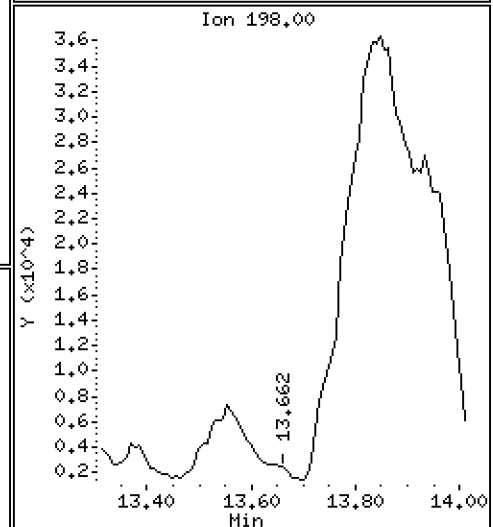
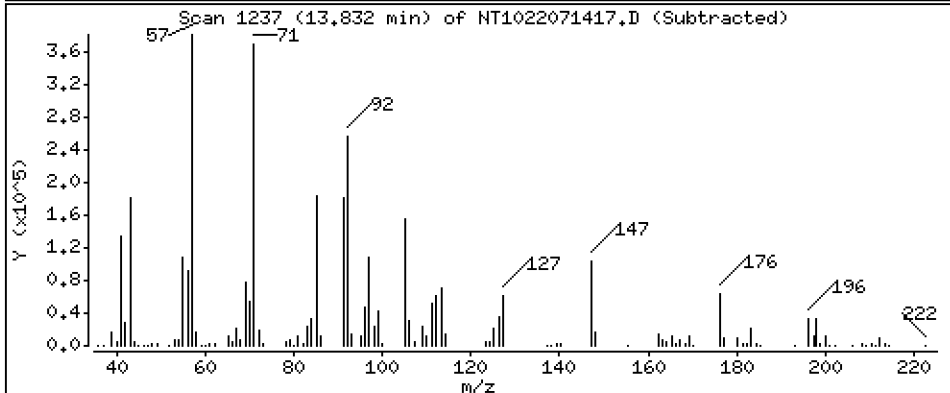
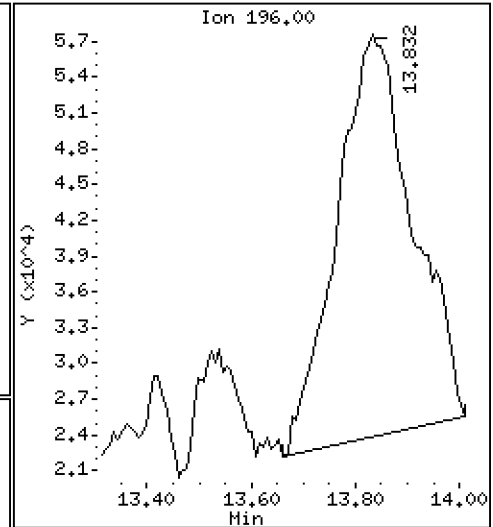
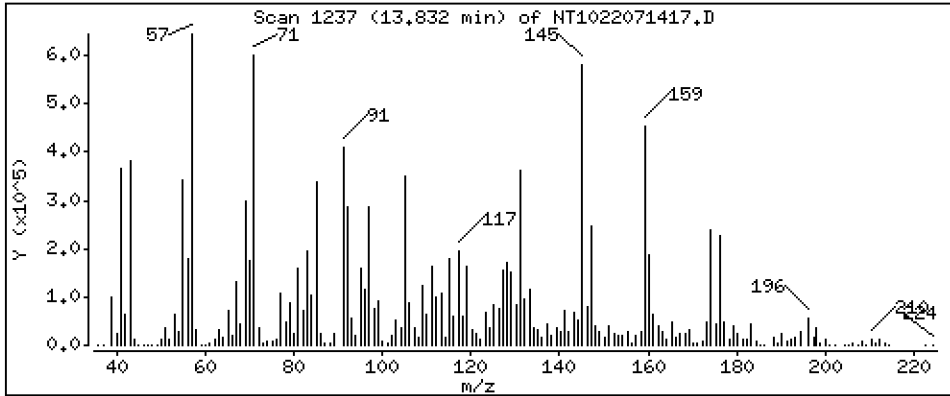
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 16,84 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

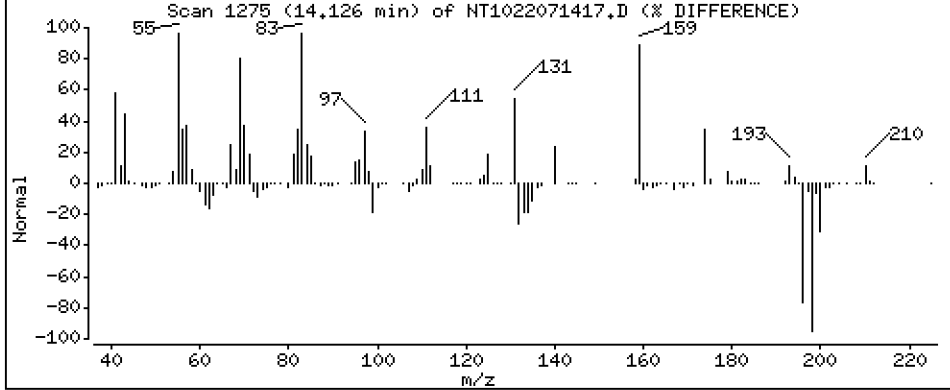
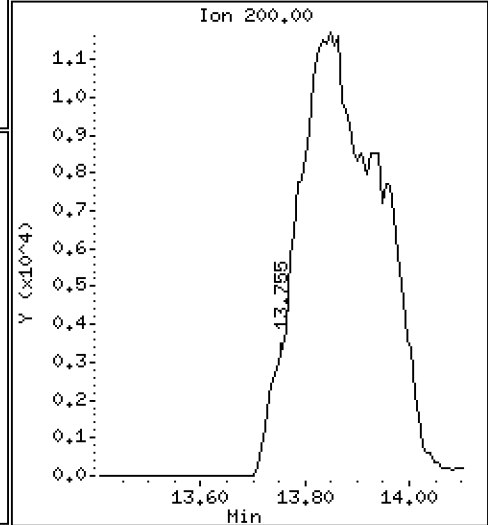
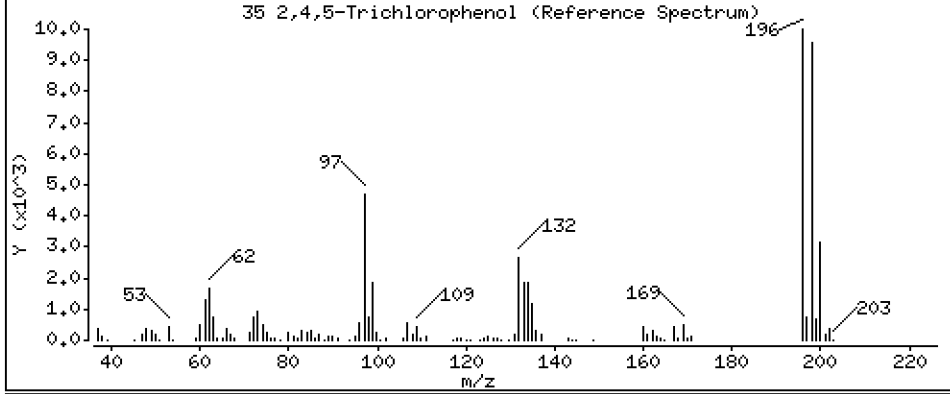
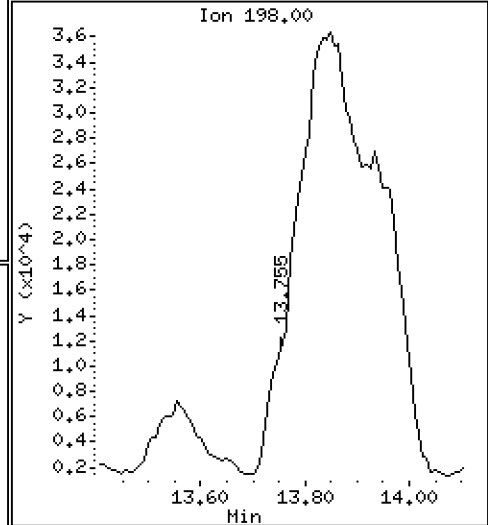
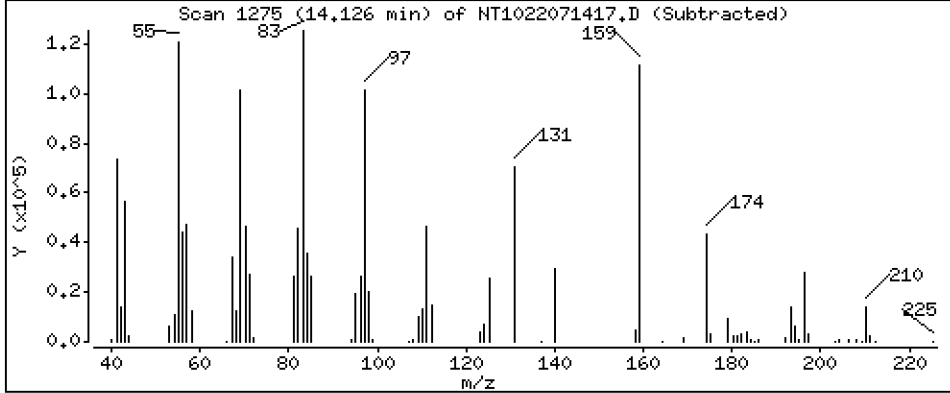
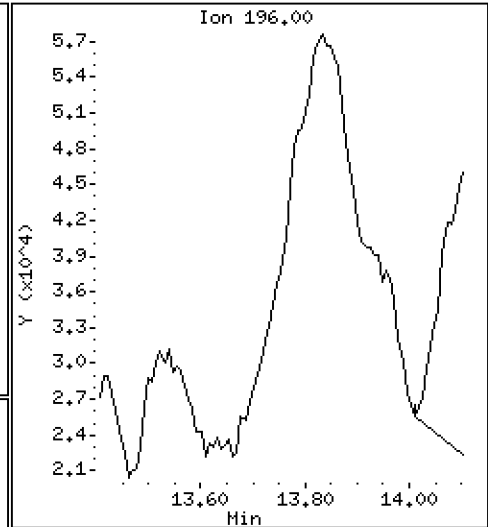
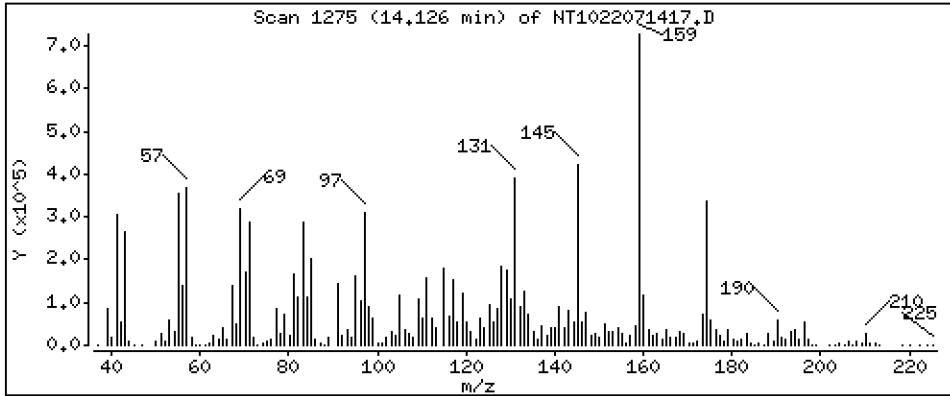
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 9,735 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

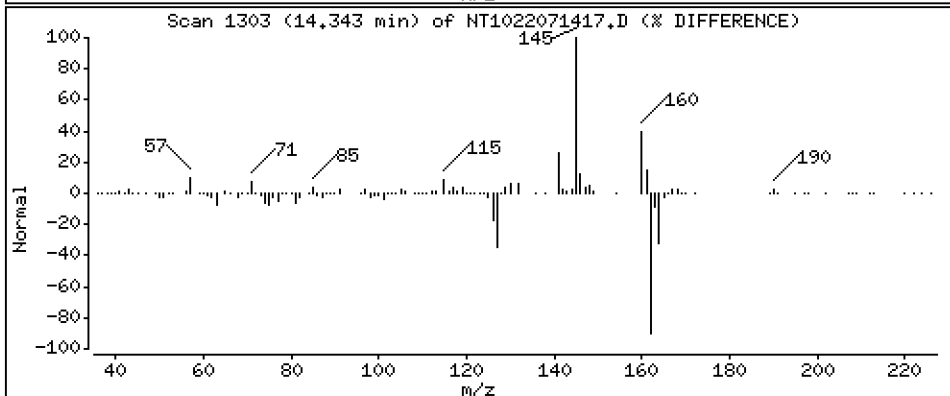
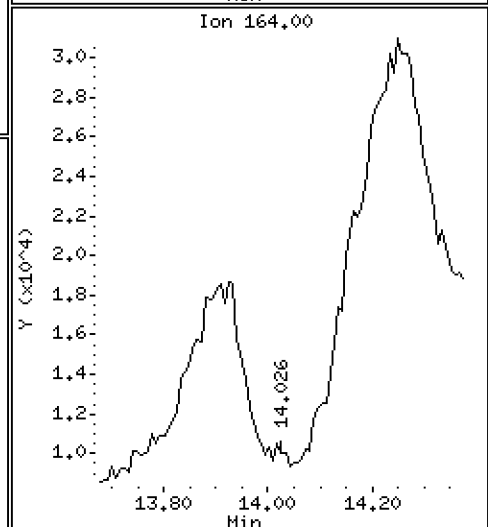
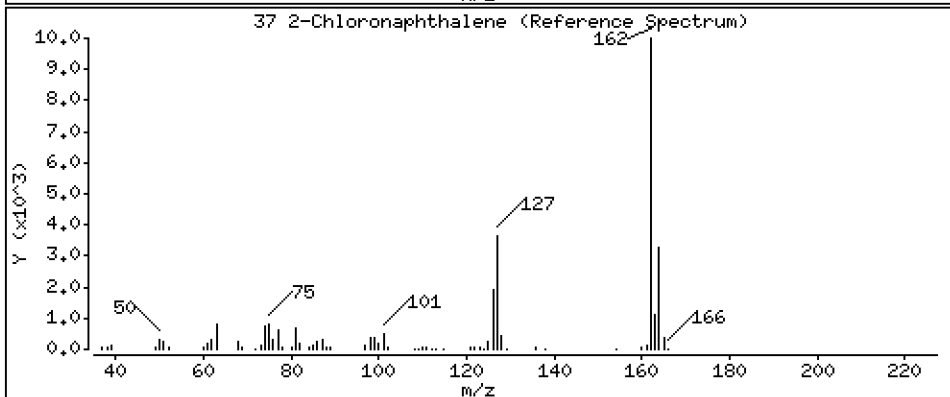
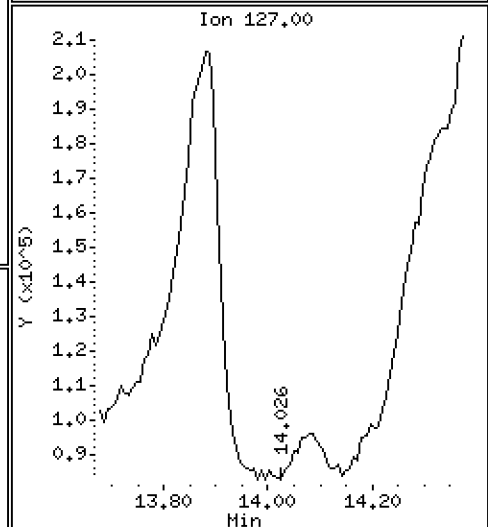
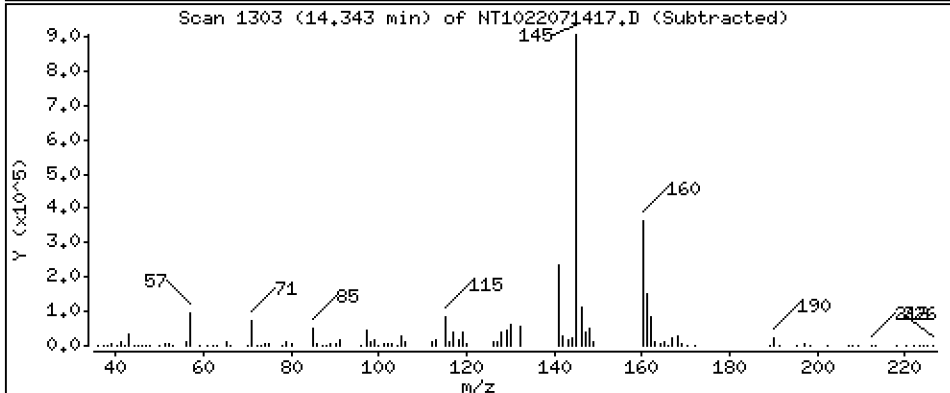
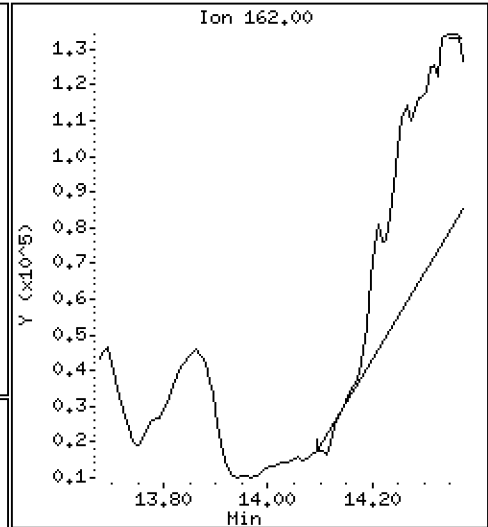
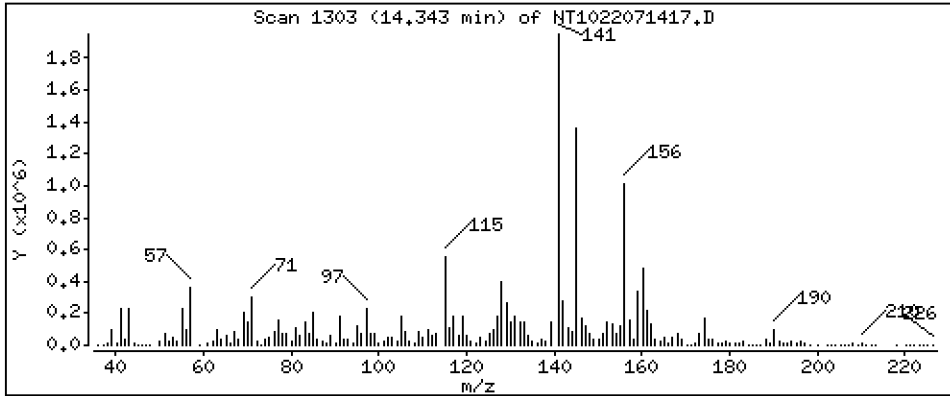
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 9,596 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

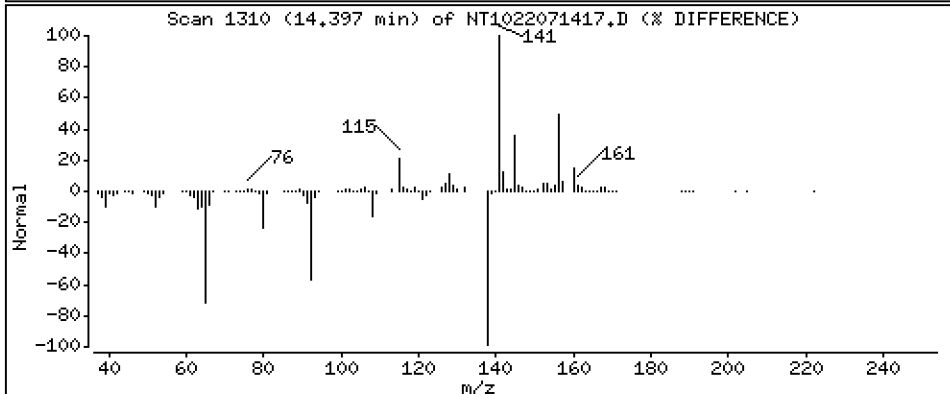
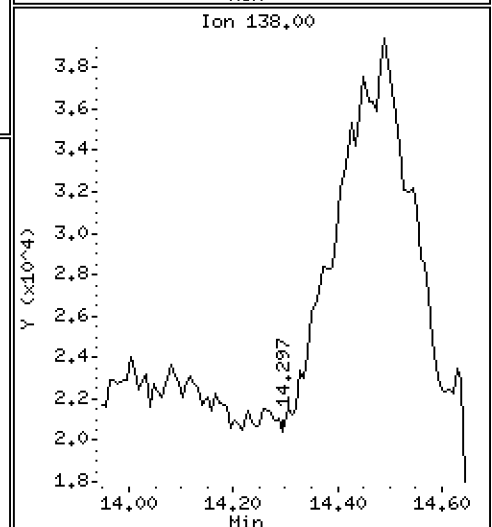
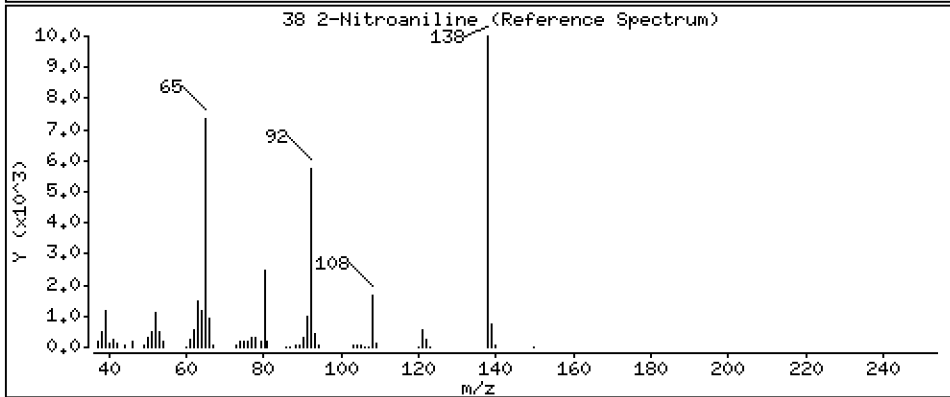
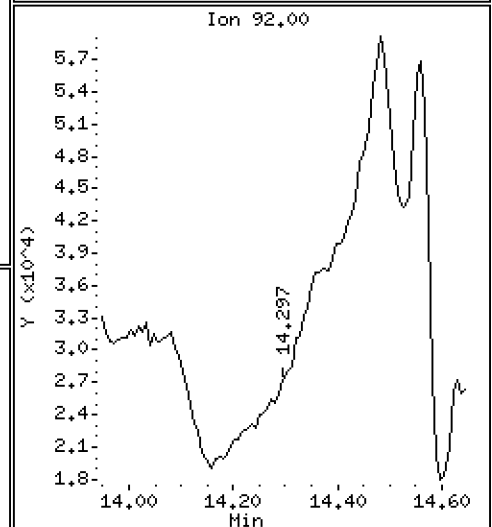
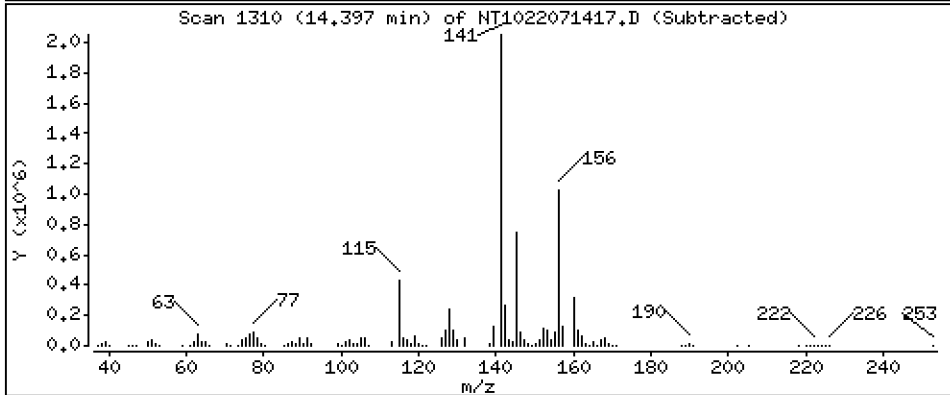
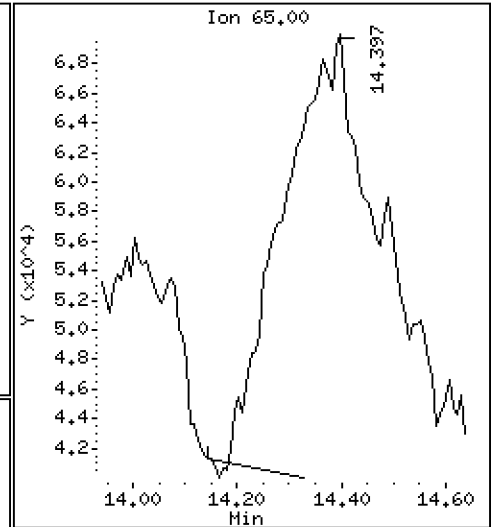
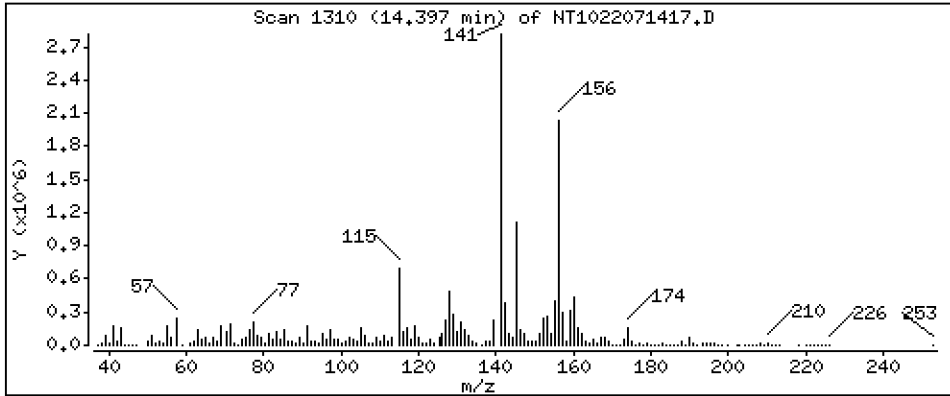
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 22,30 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

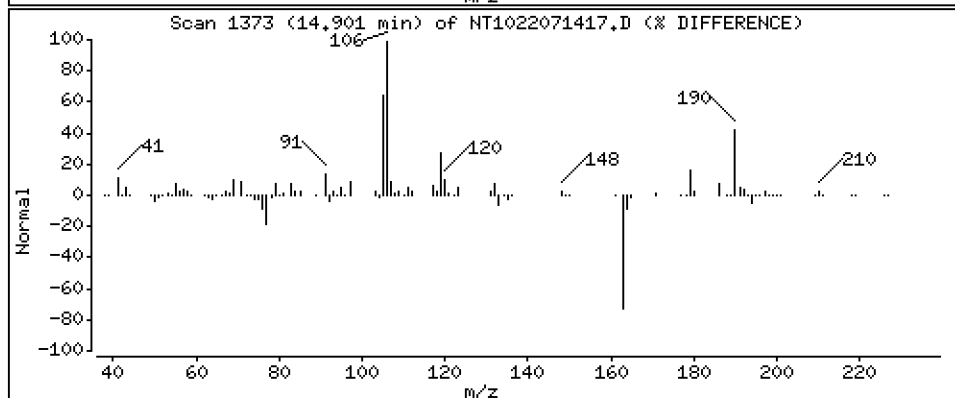
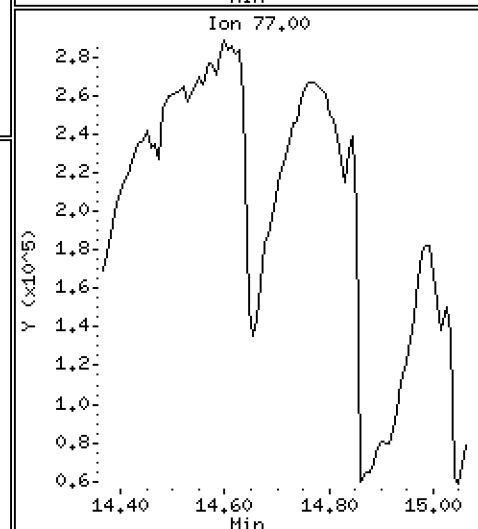
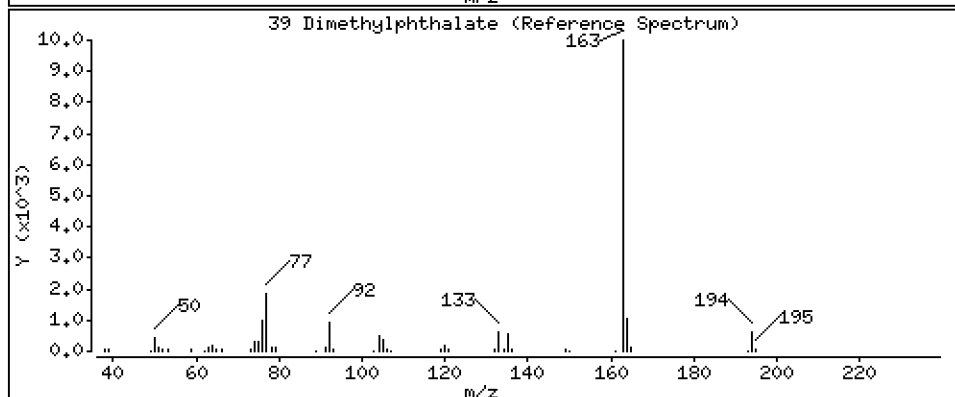
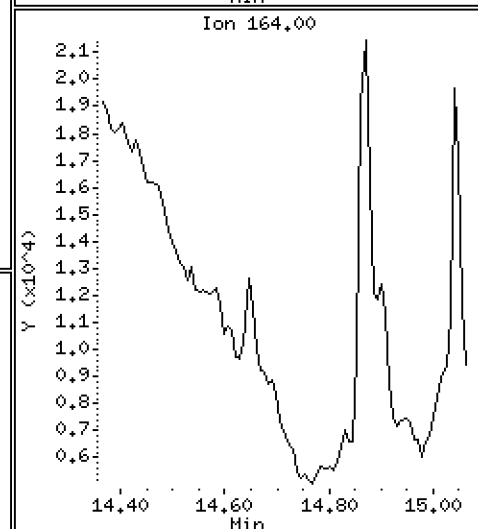
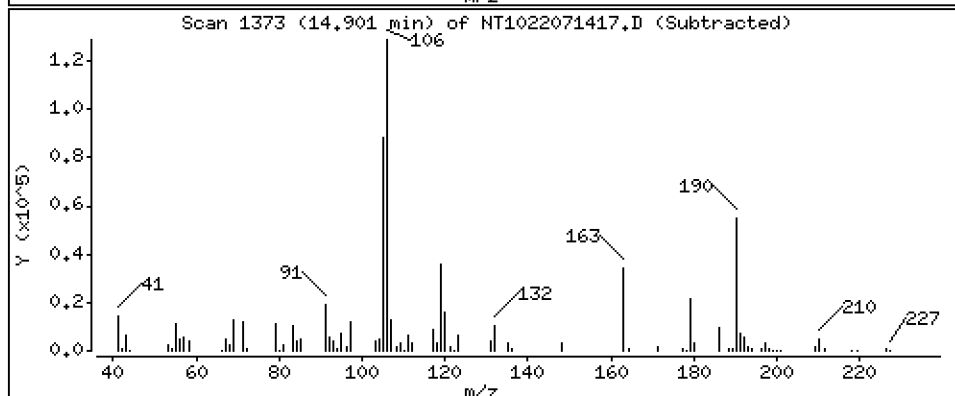
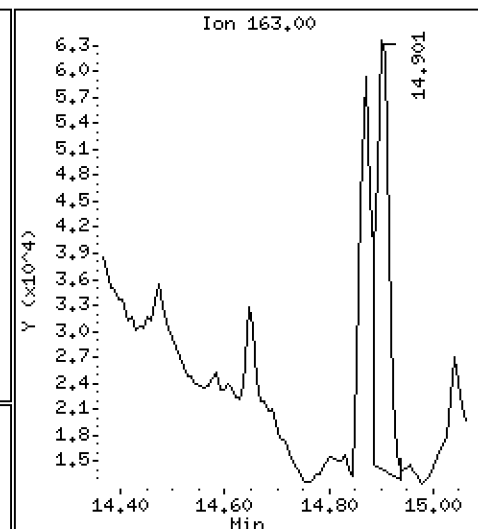
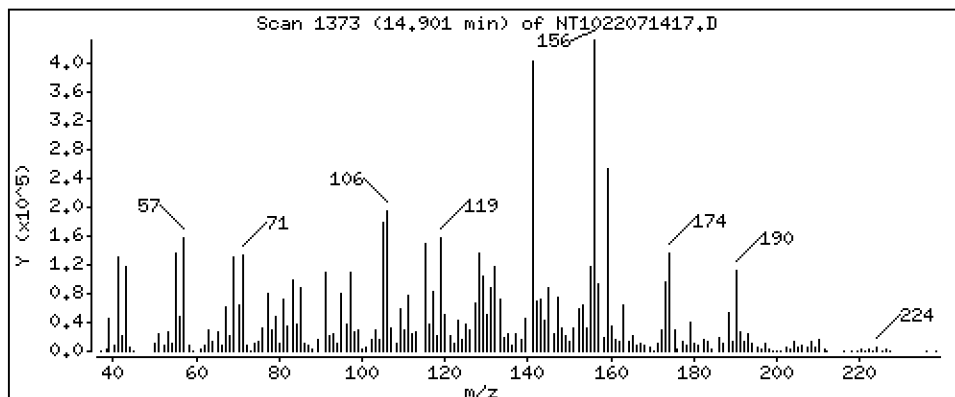
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 1.445 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

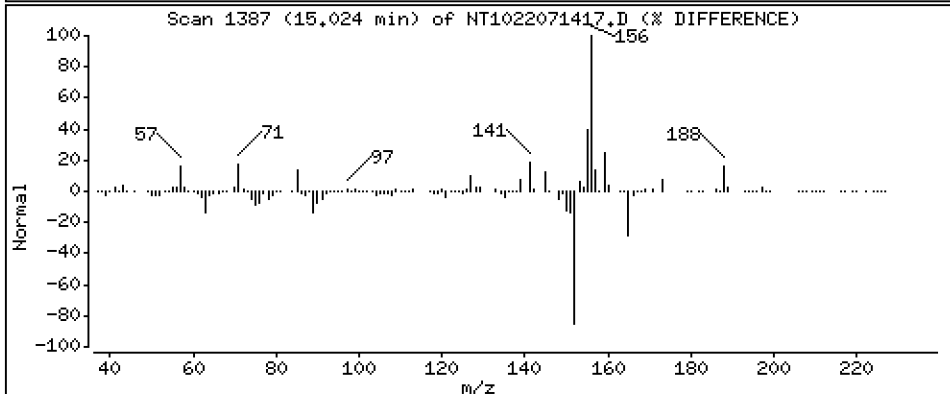
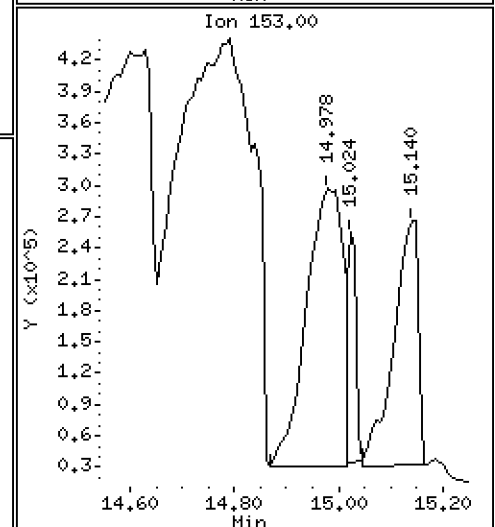
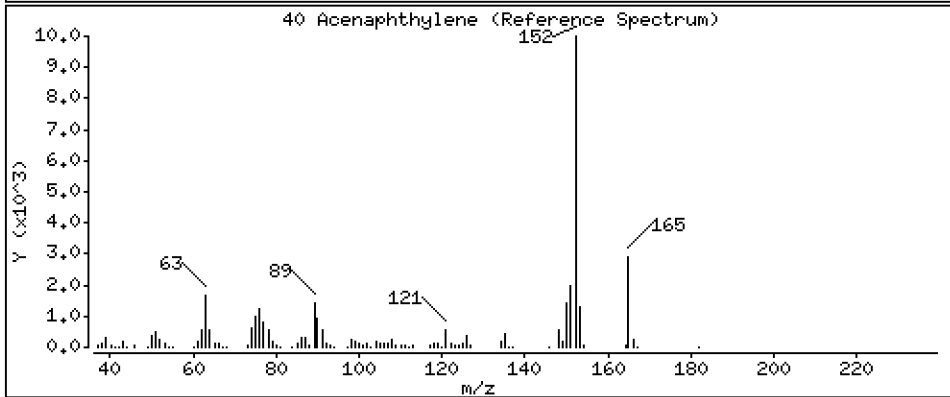
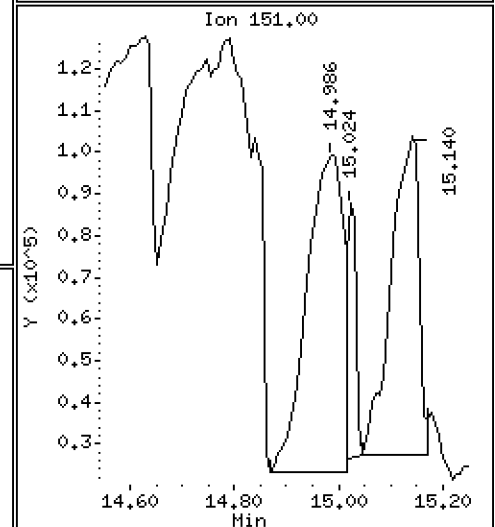
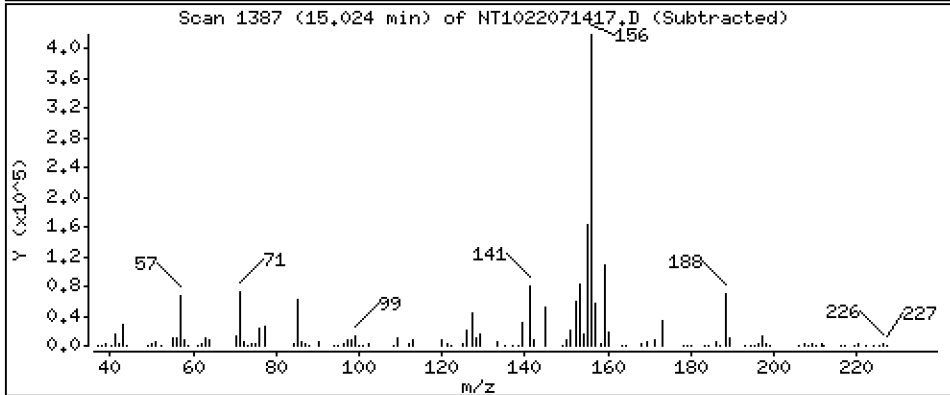
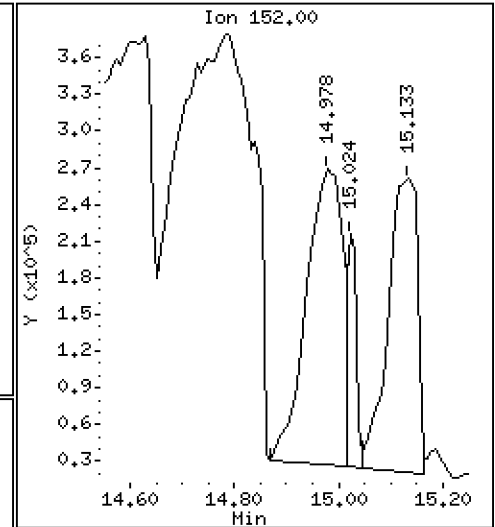
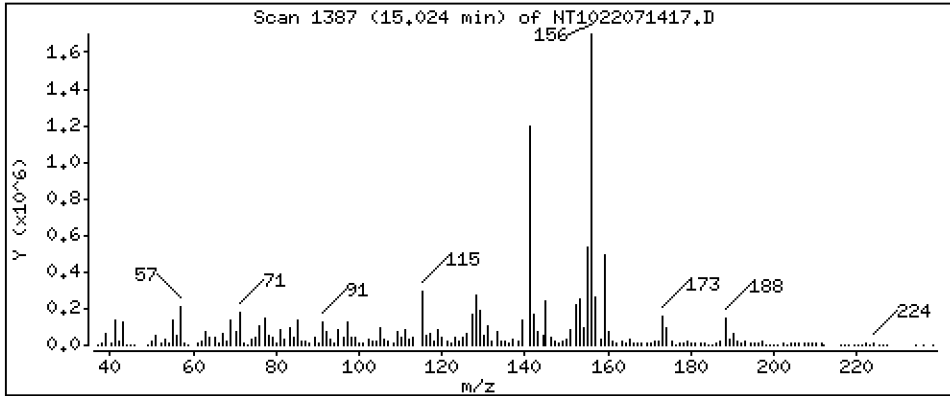
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 2,542 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

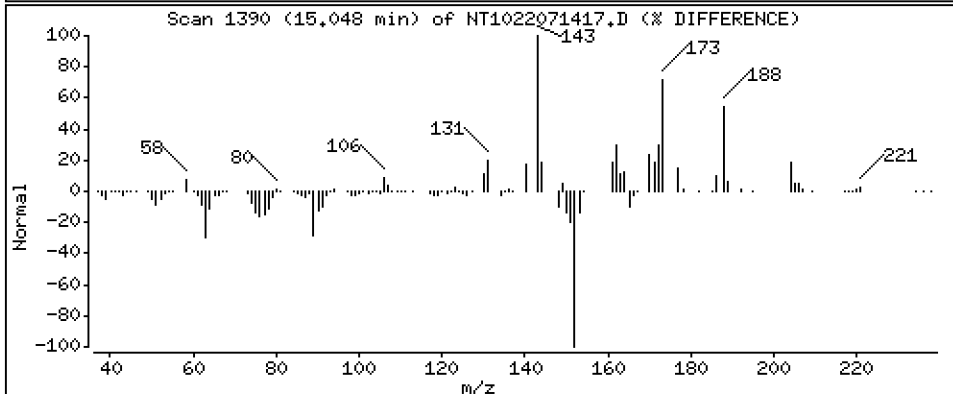
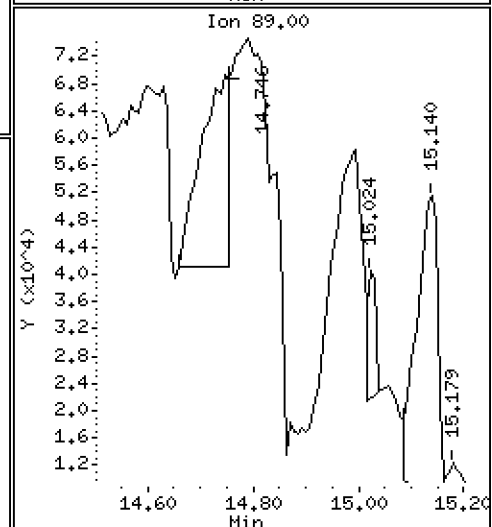
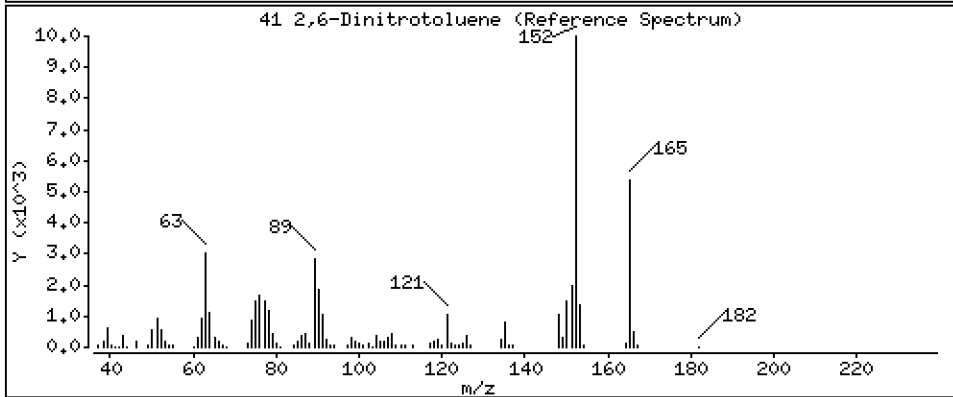
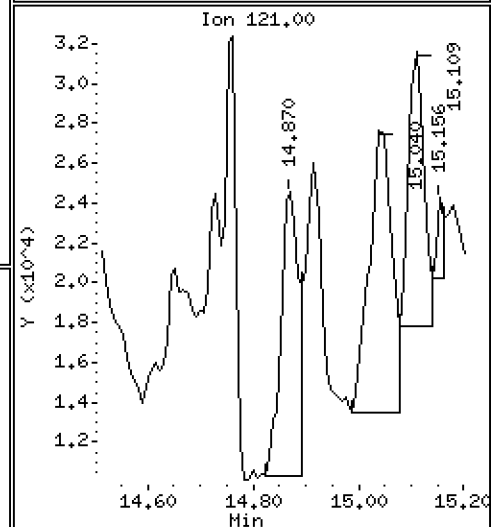
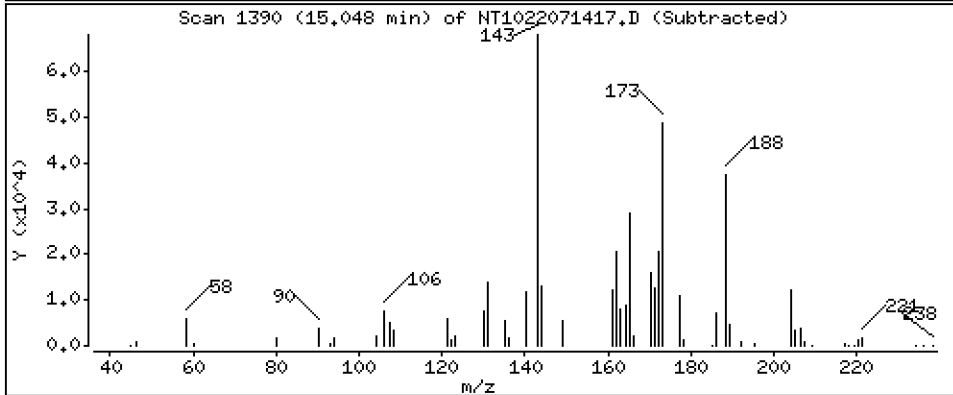
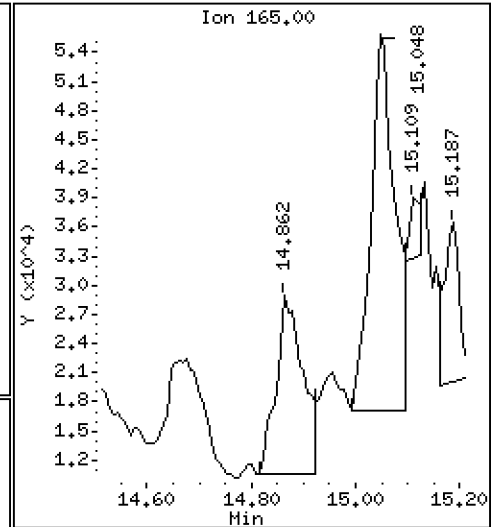
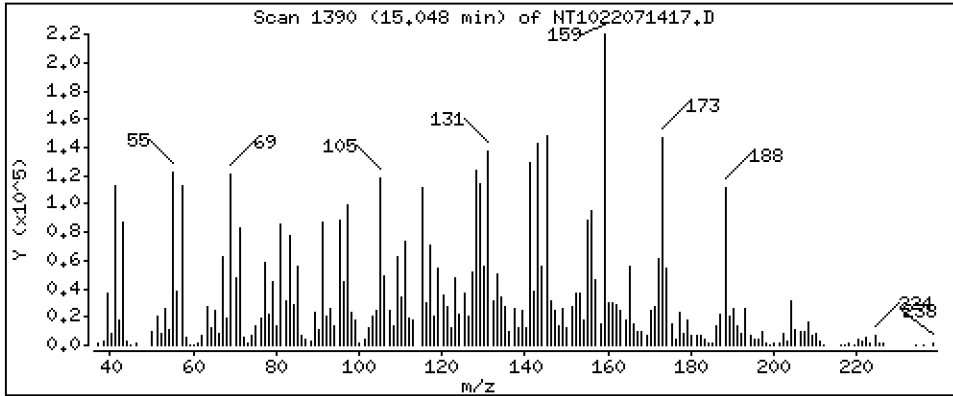
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 9.860 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

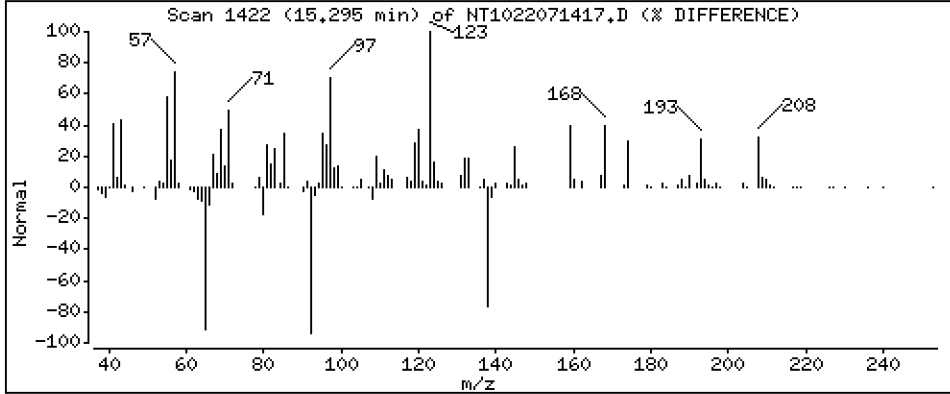
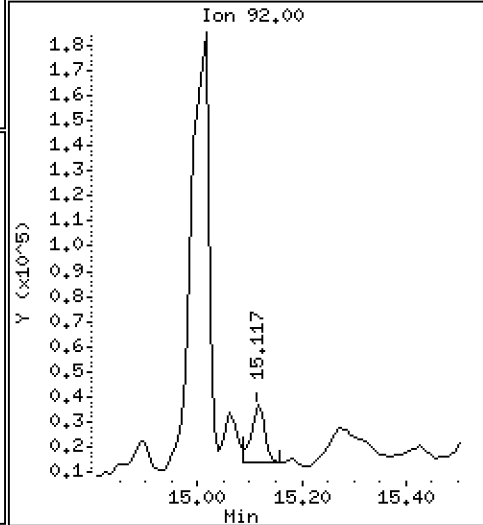
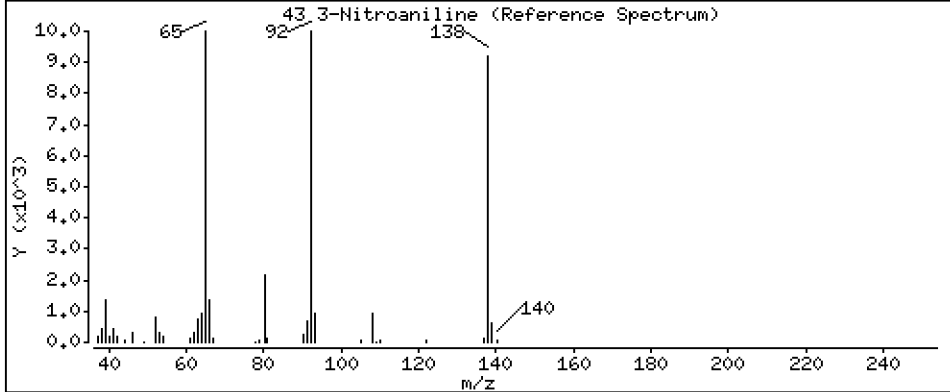
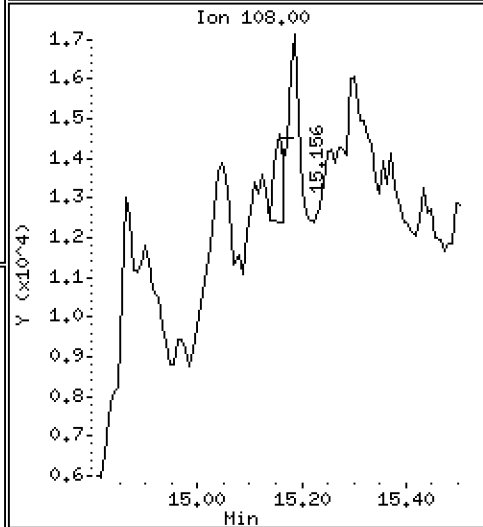
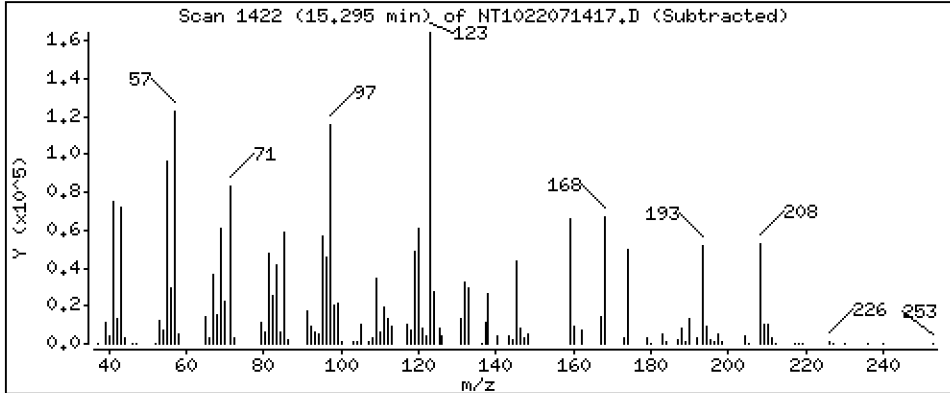
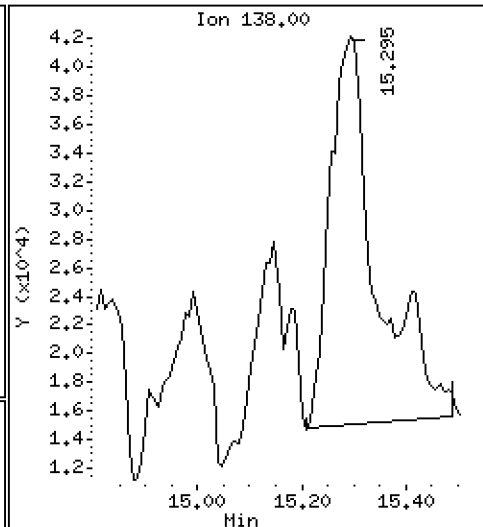
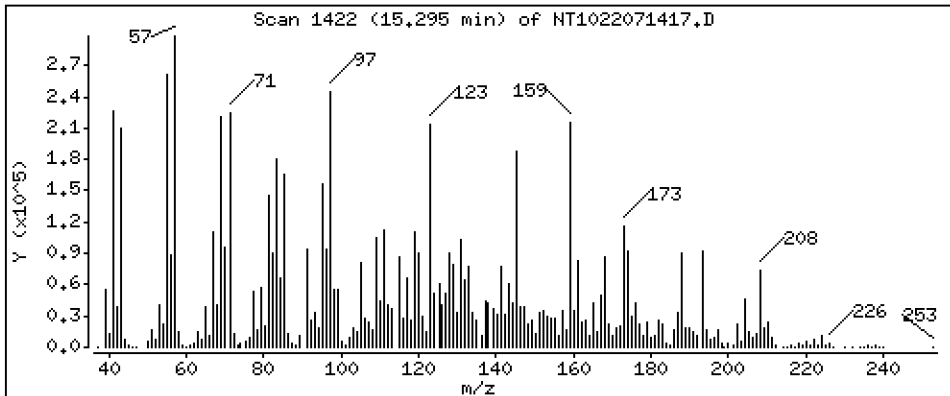
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

43 3-Nitroaniline

Concentration: 9.856 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

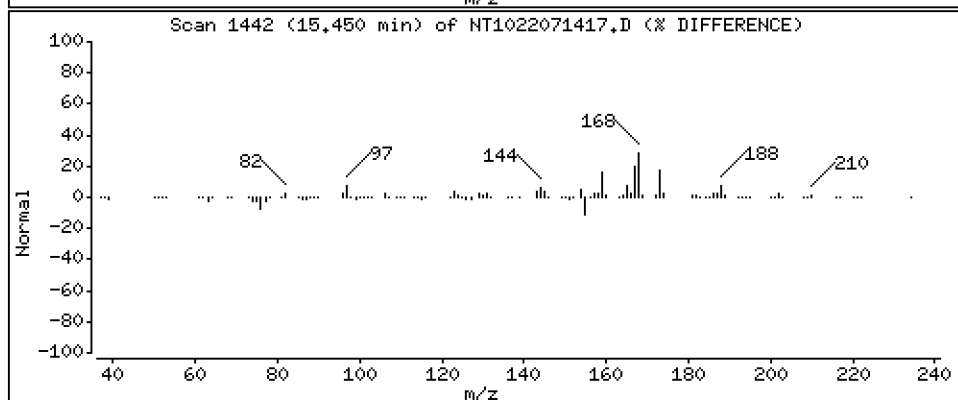
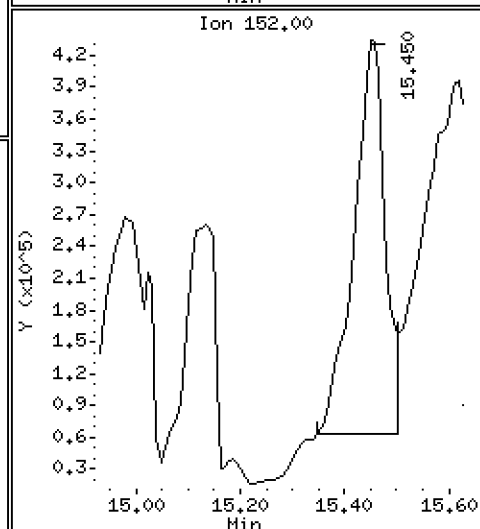
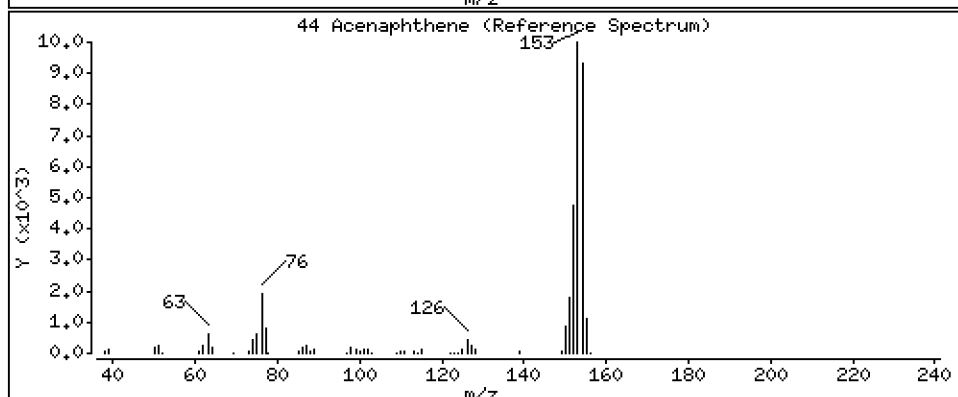
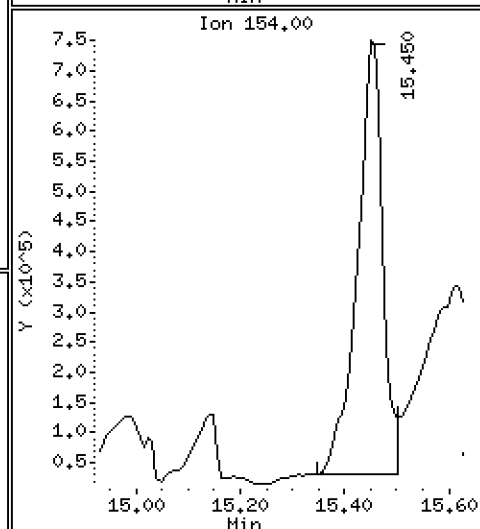
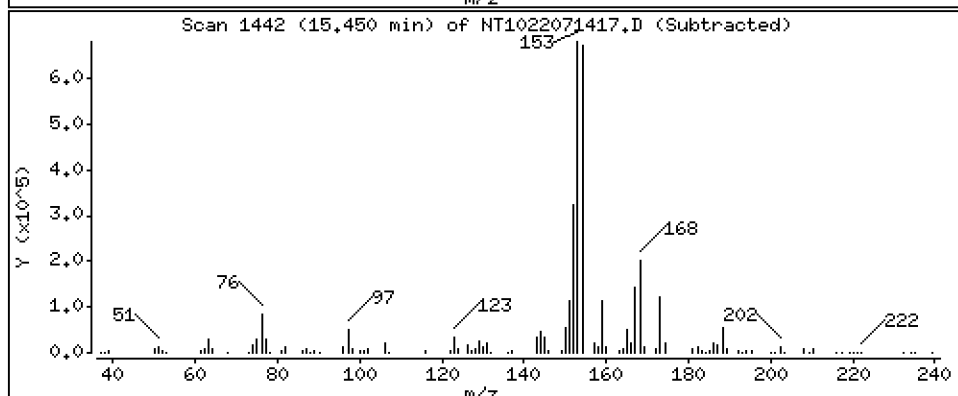
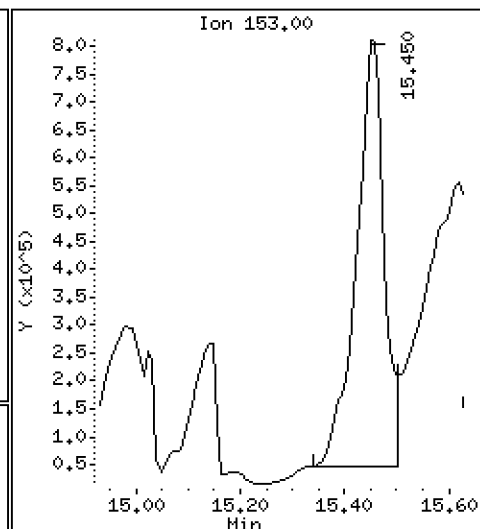
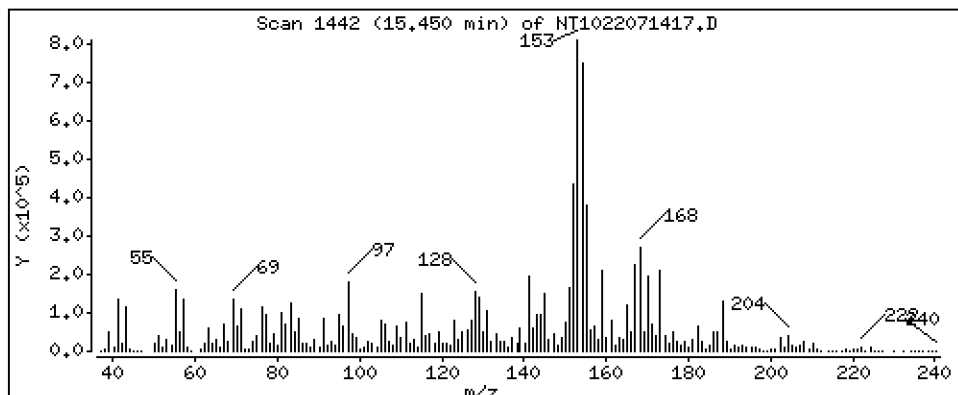
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 55,21 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

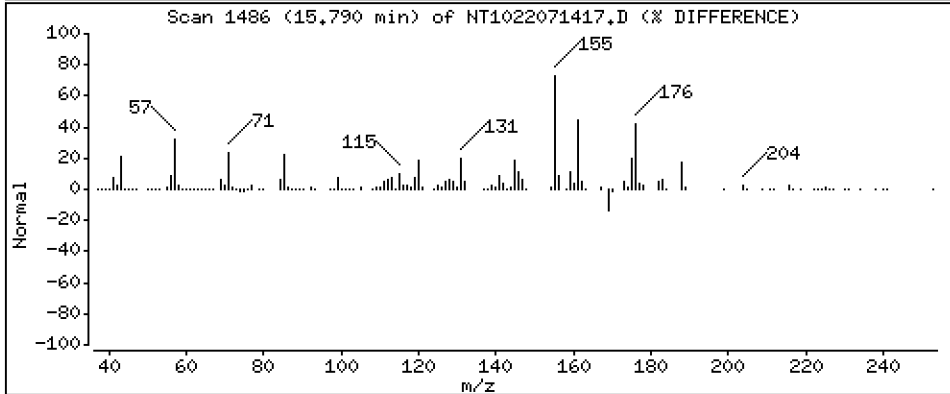
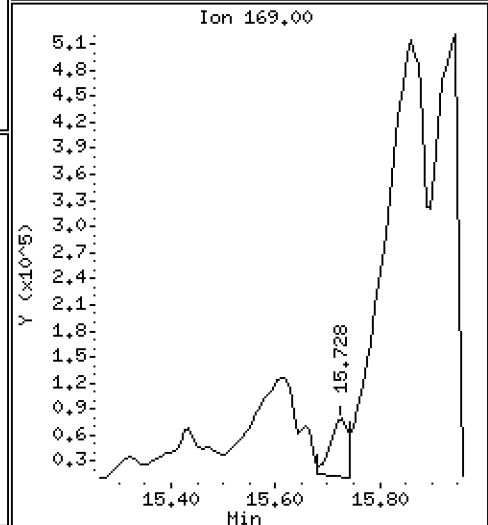
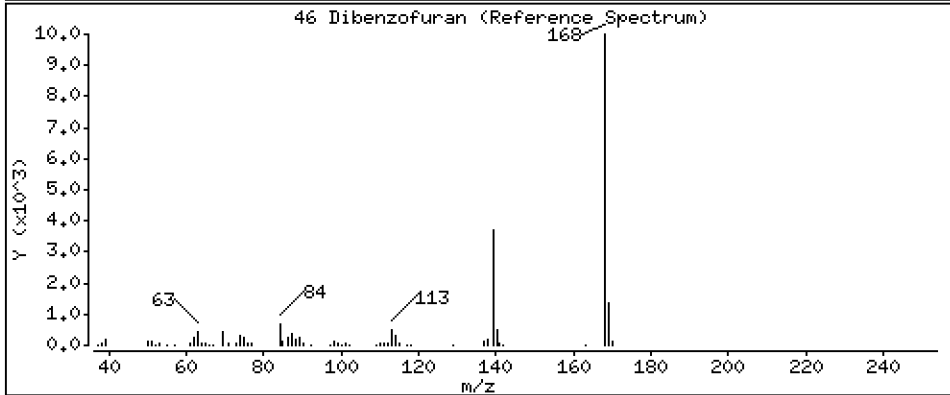
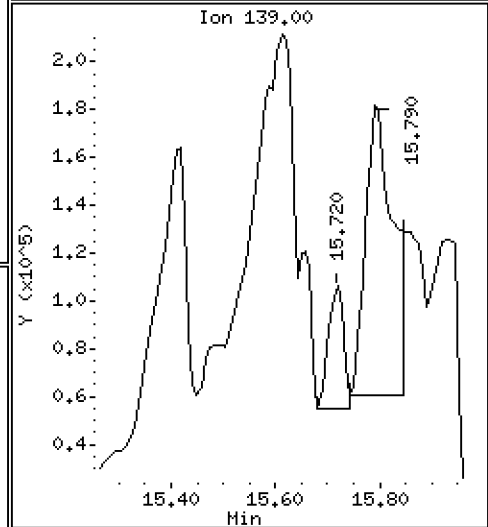
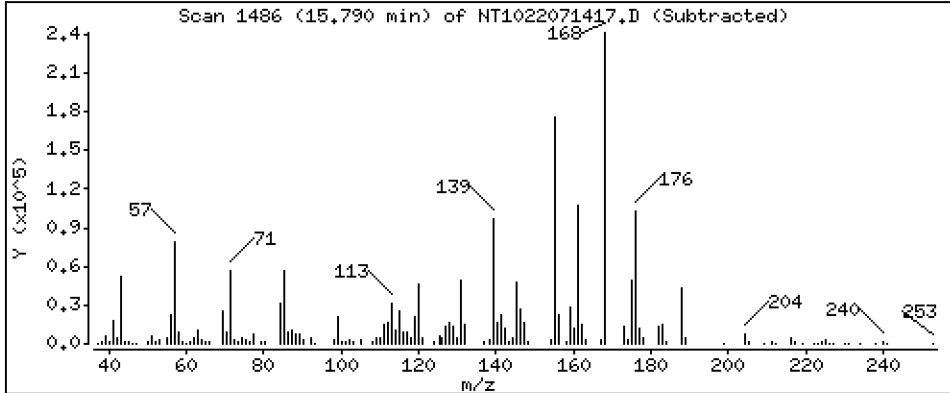
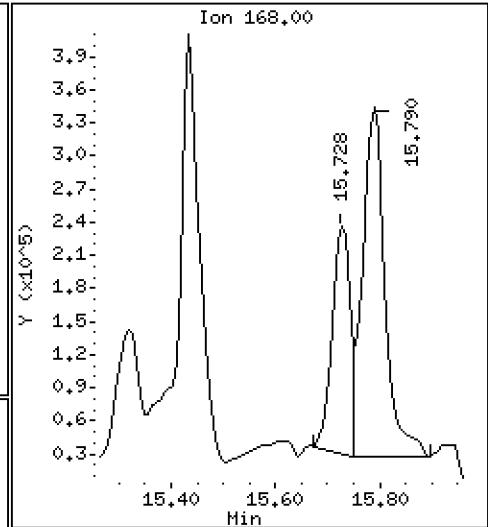
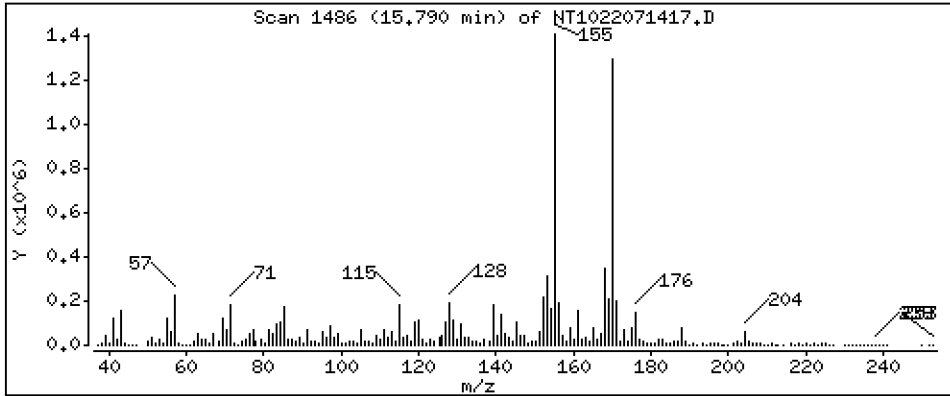
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 11,85 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

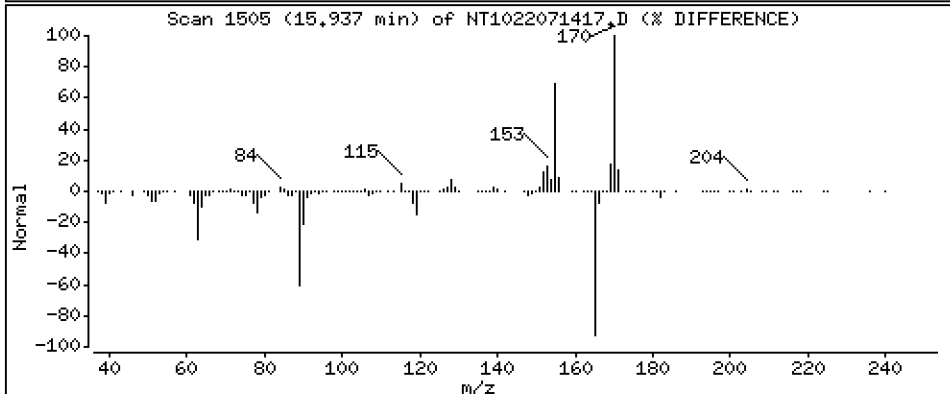
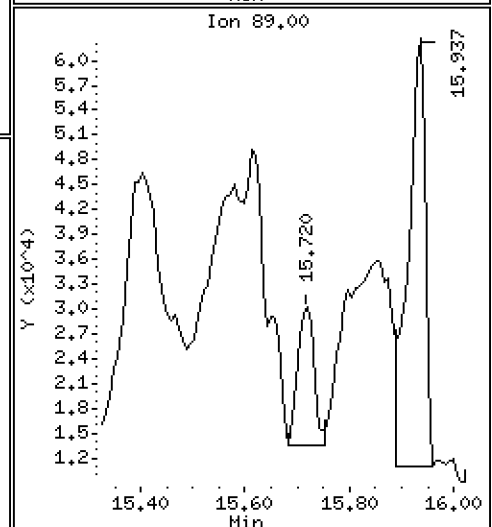
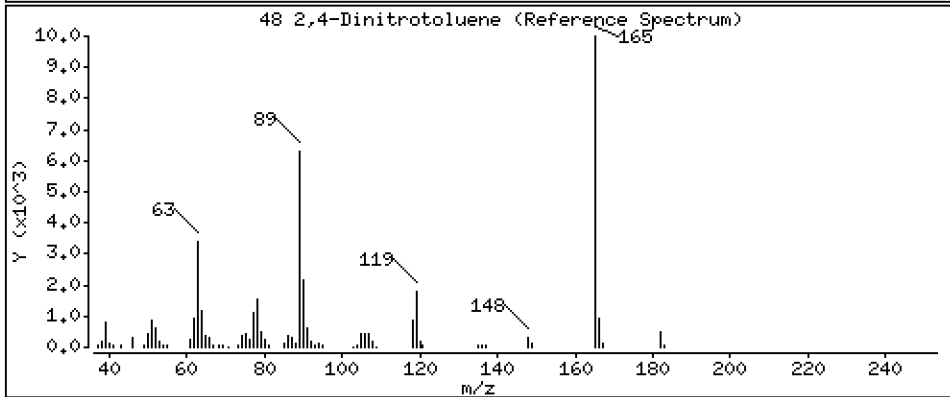
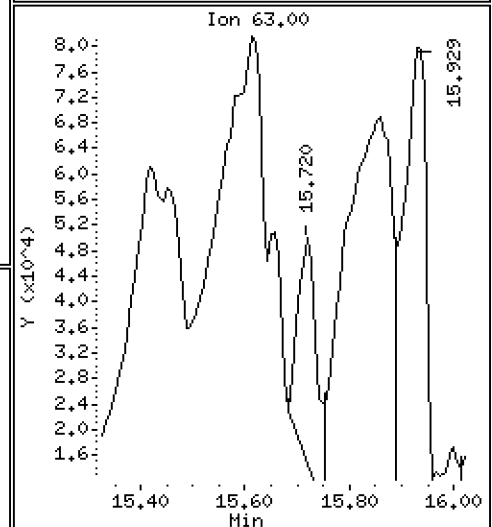
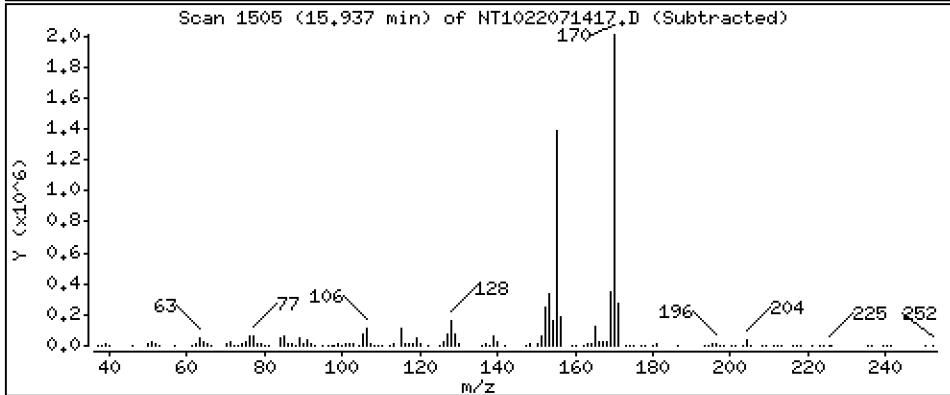
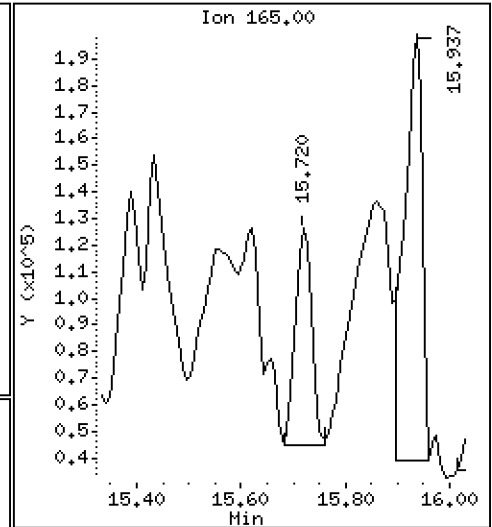
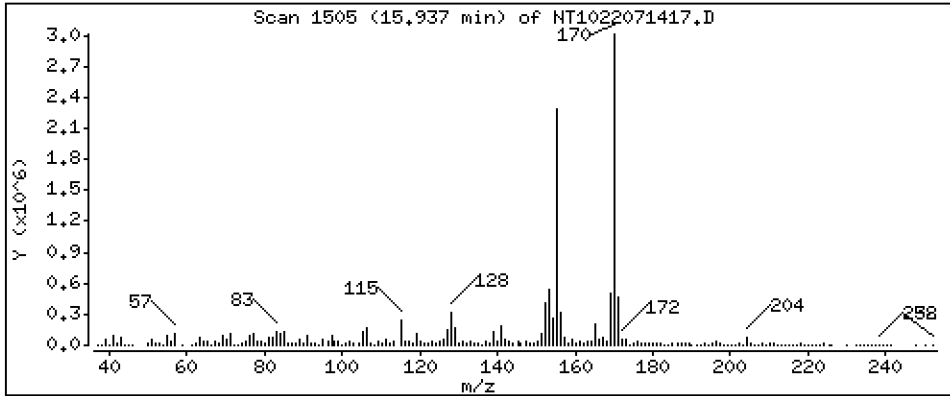
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 19,81 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

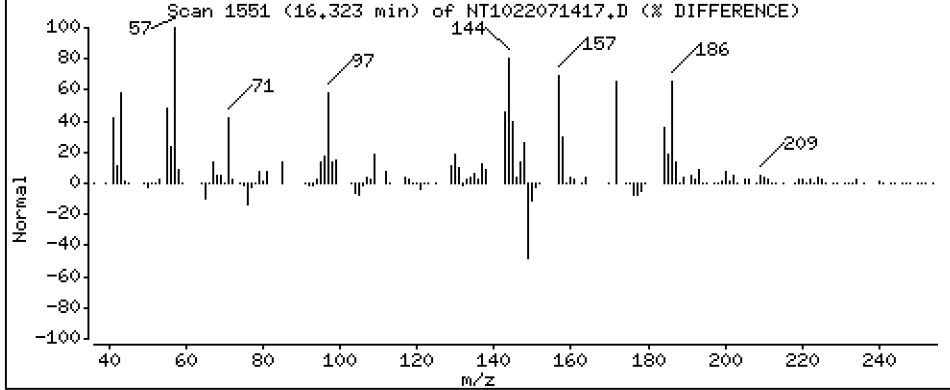
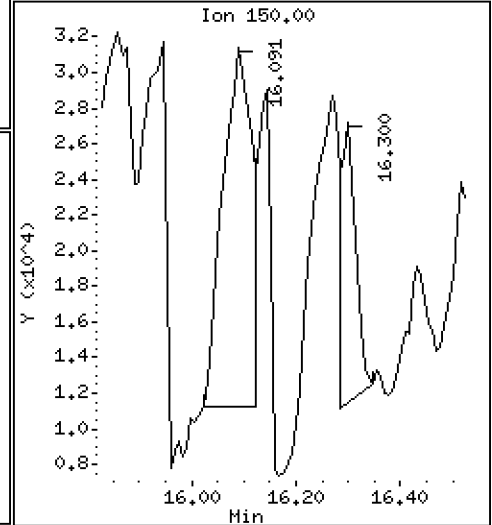
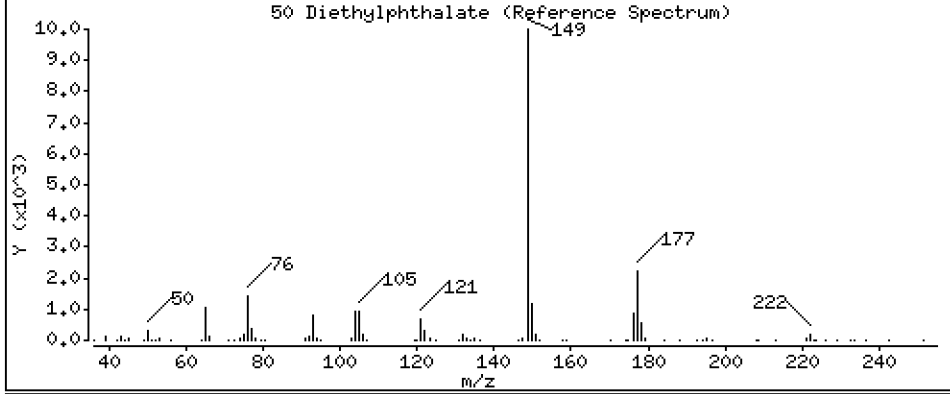
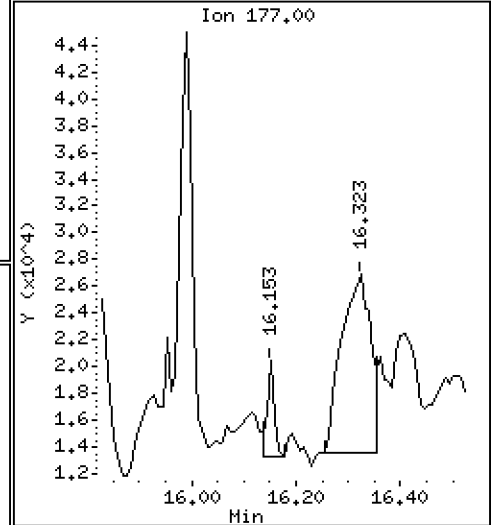
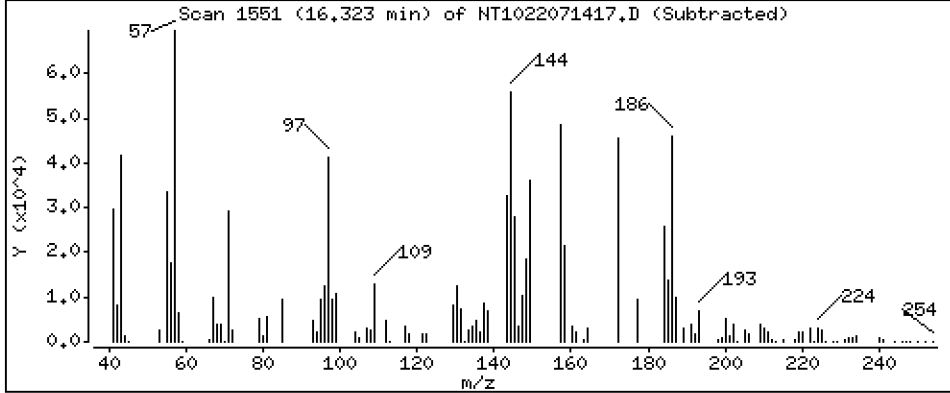
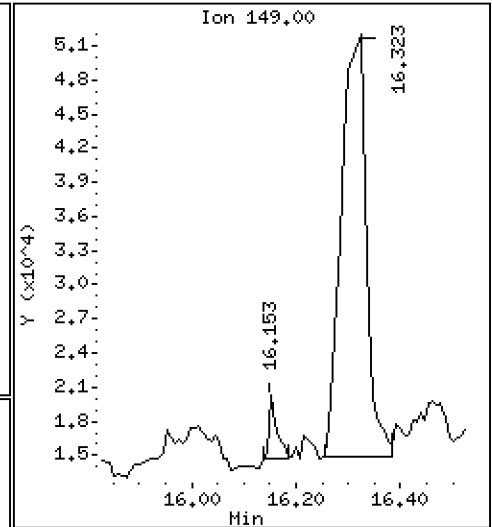
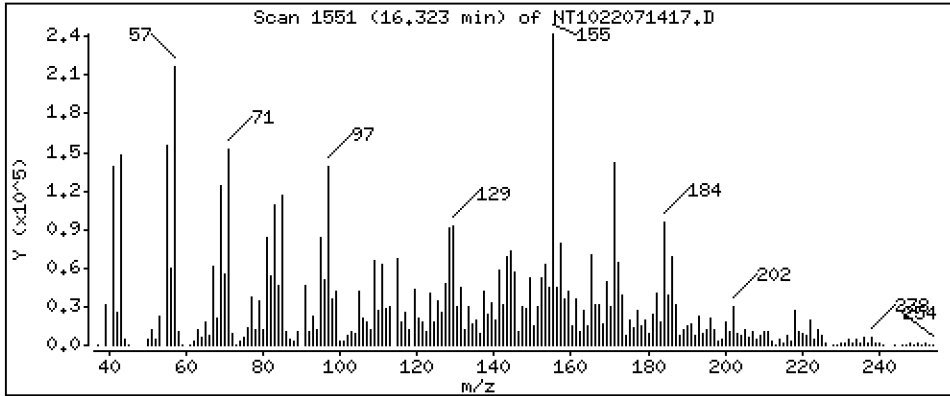
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 1.897 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

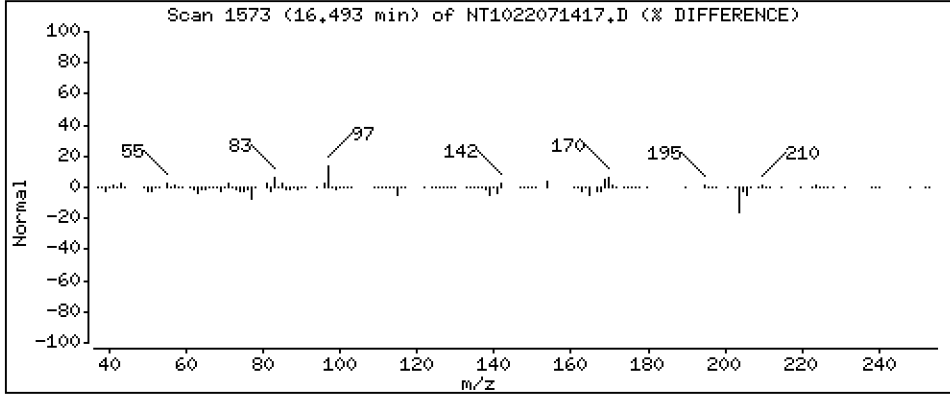
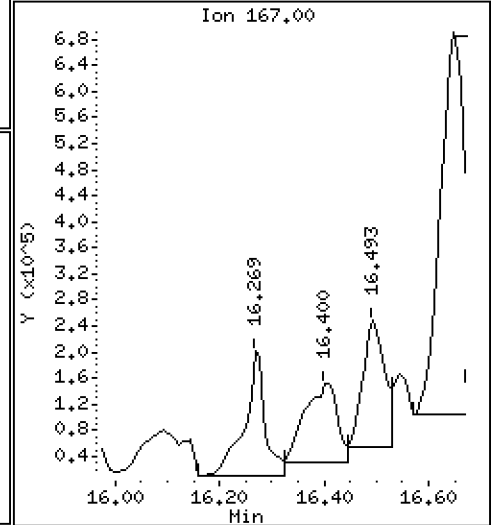
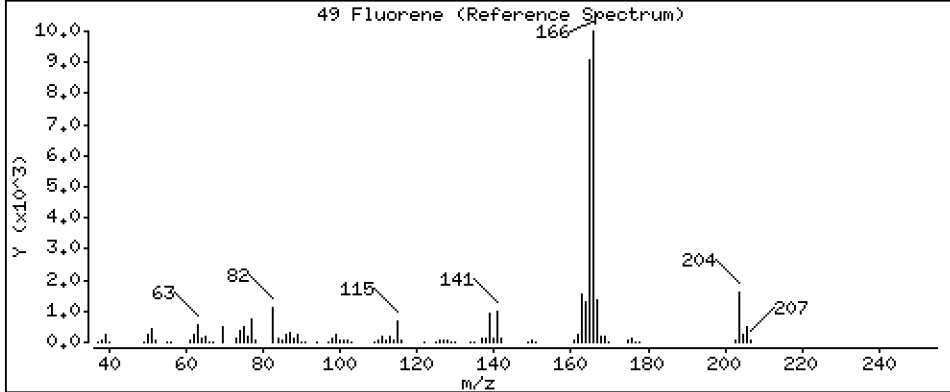
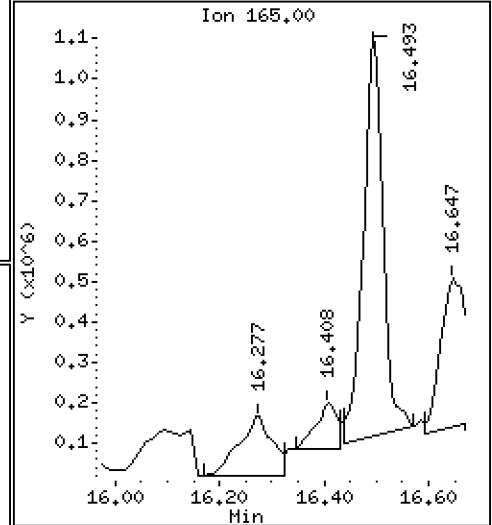
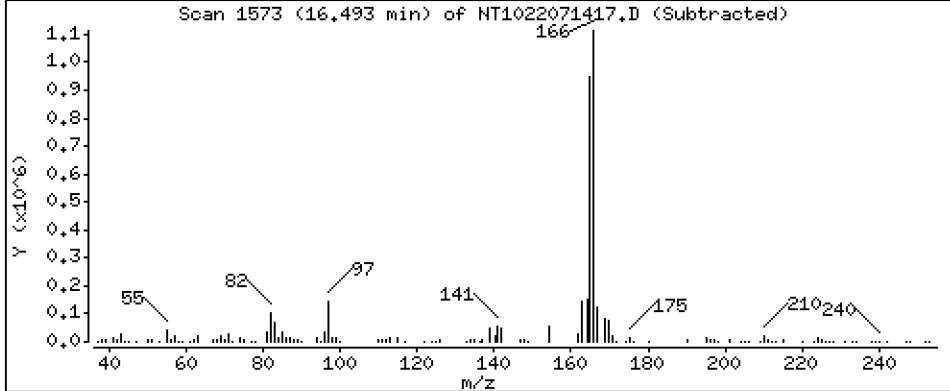
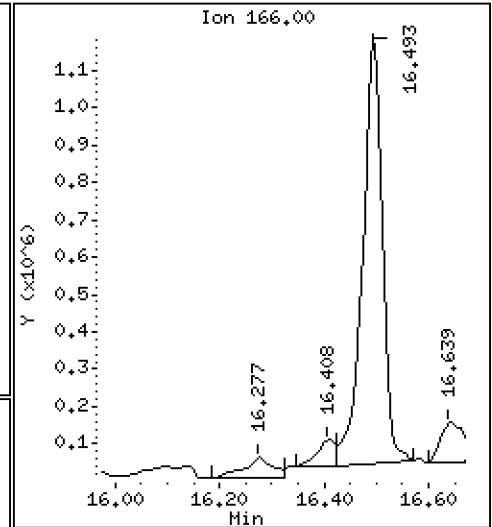
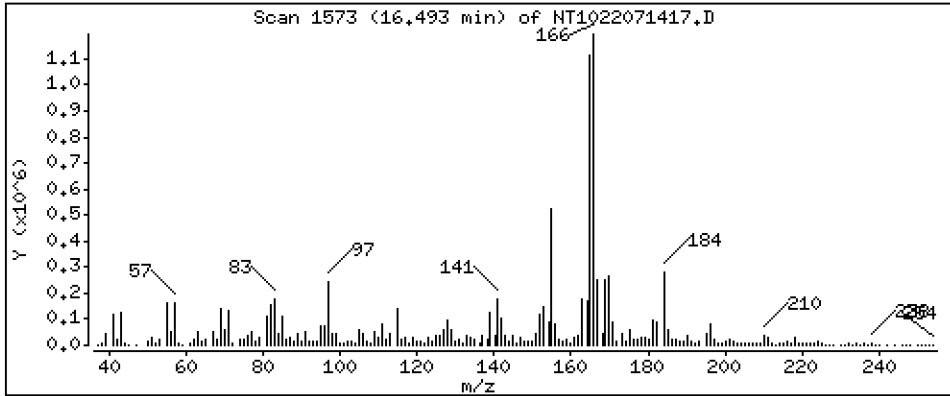
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 30,76 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

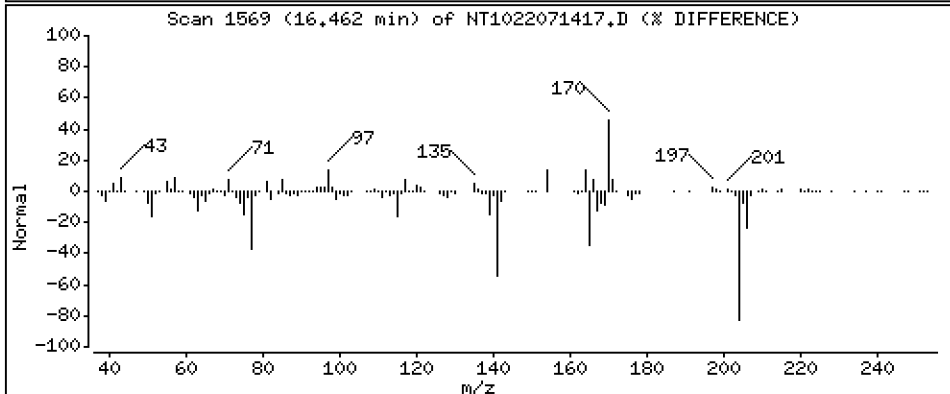
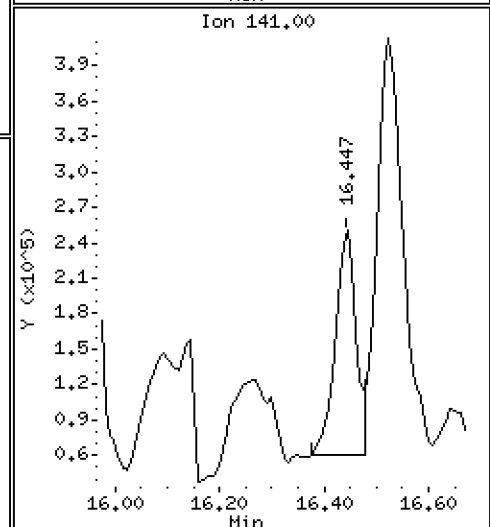
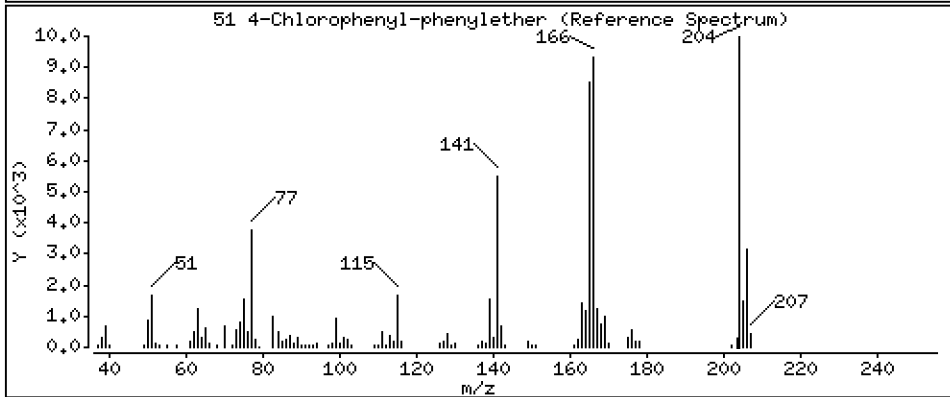
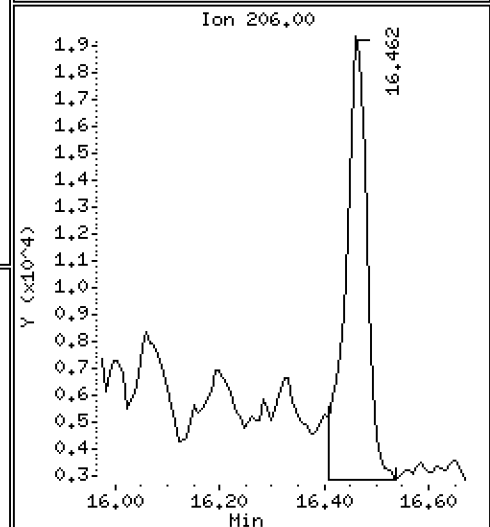
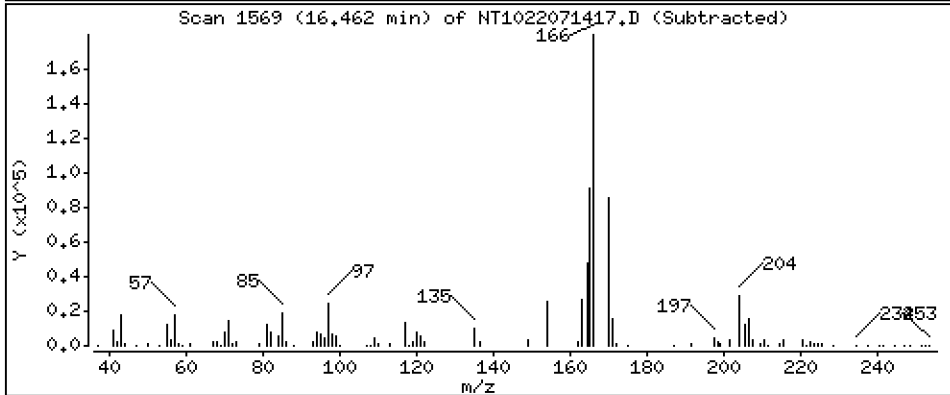
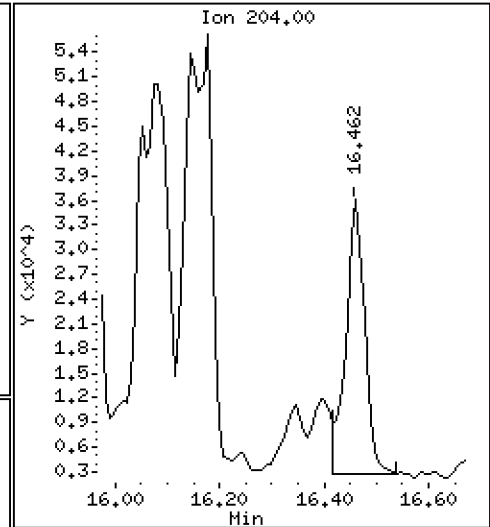
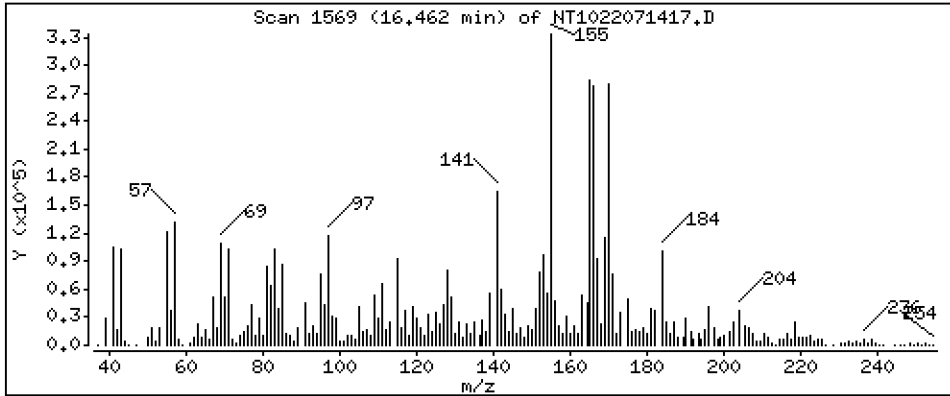
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

51 4-Chlorophenyl-phenylether

Concentration: 1.909 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

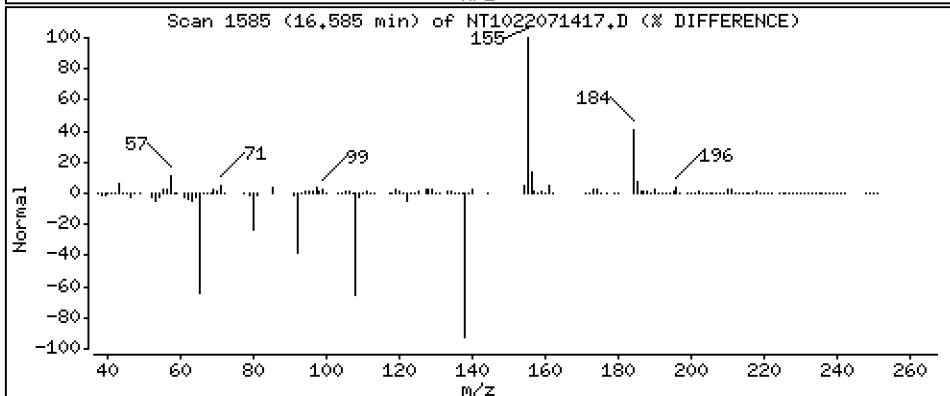
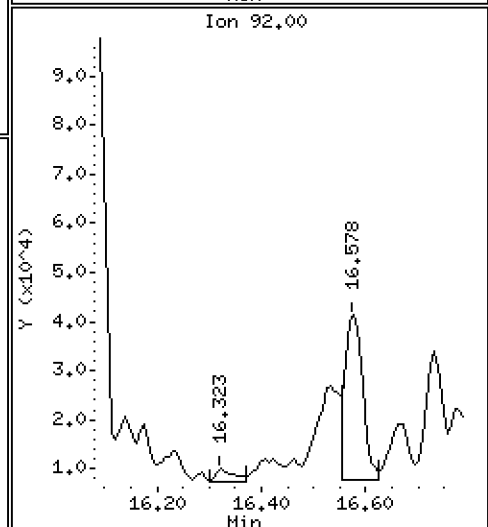
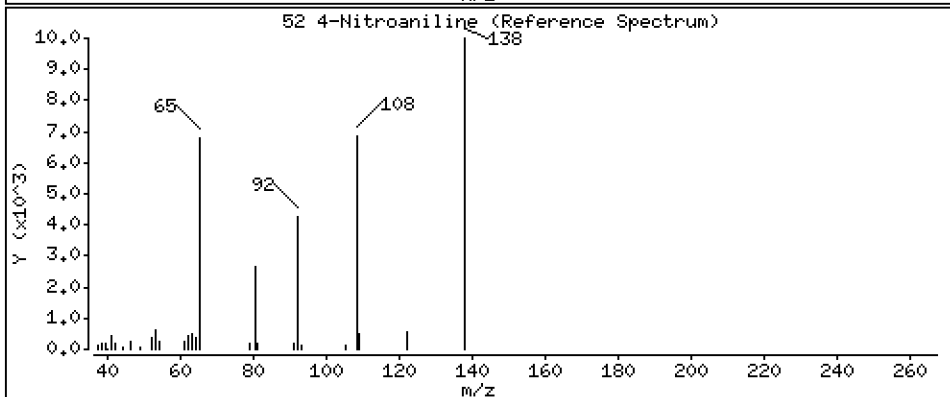
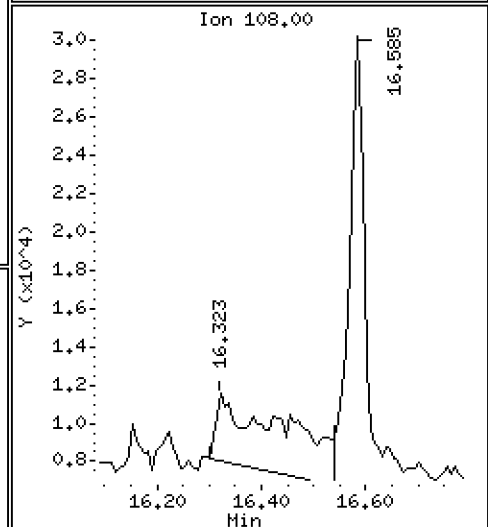
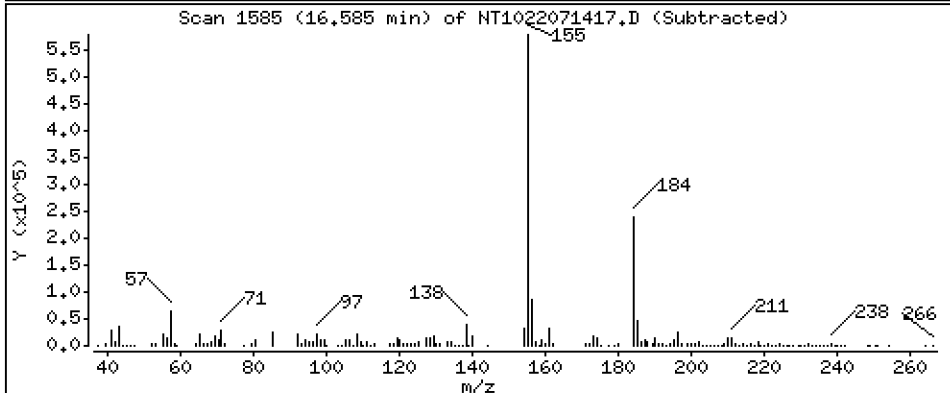
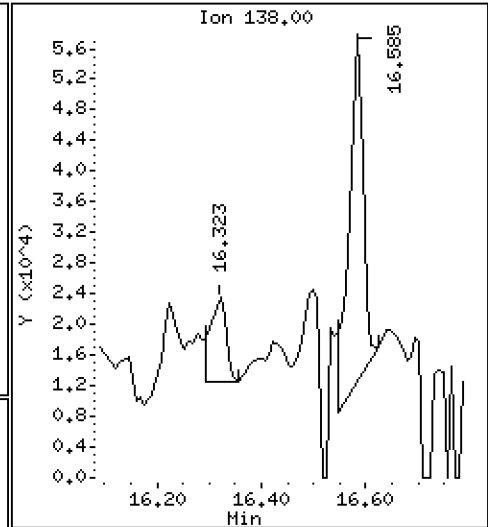
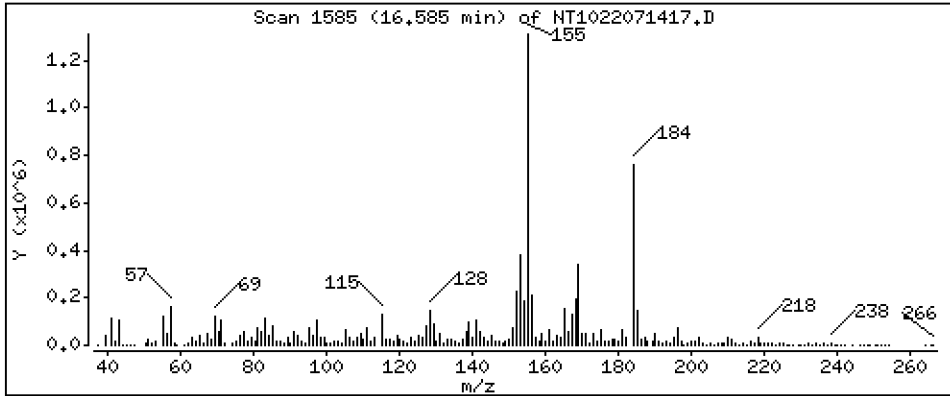
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,818 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

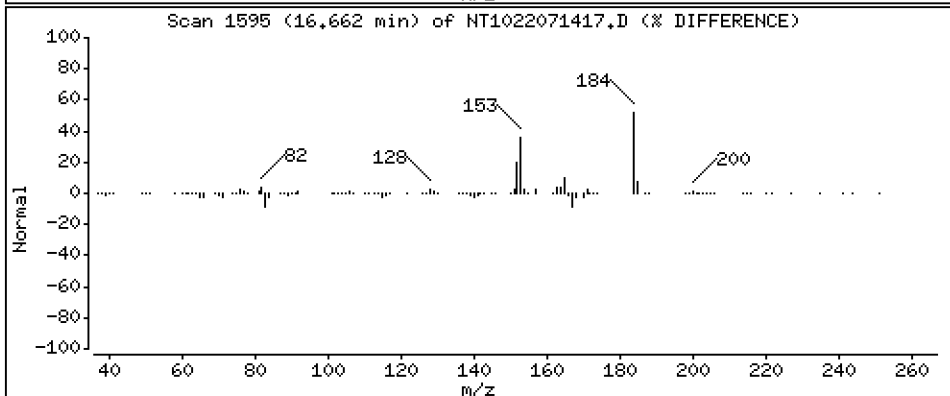
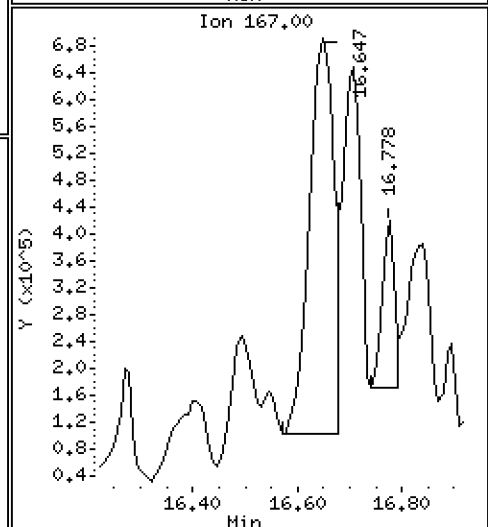
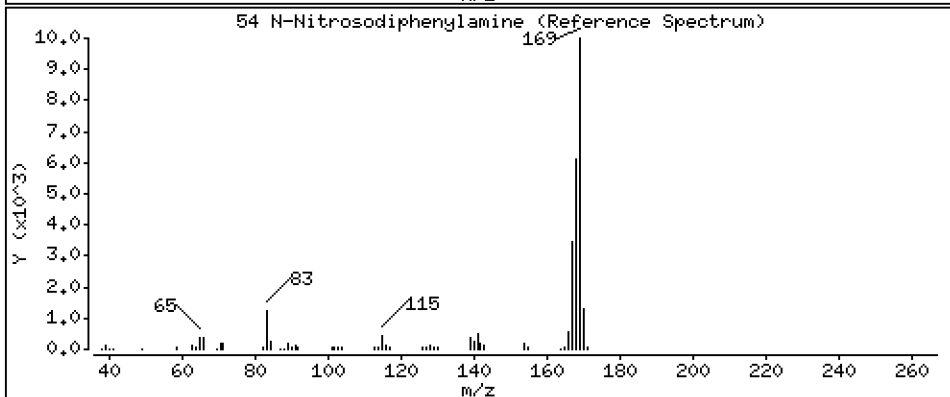
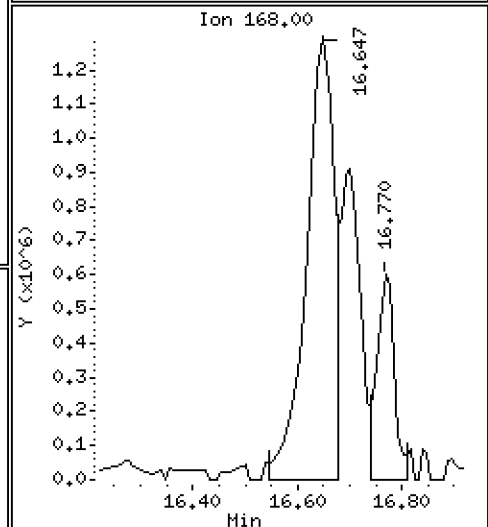
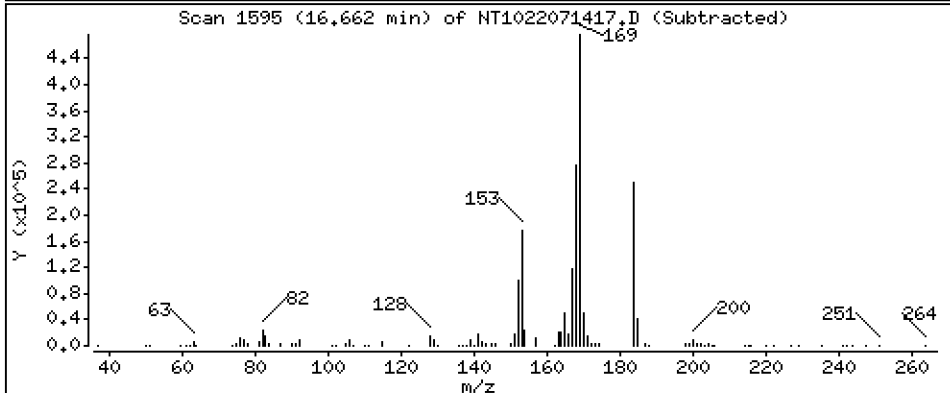
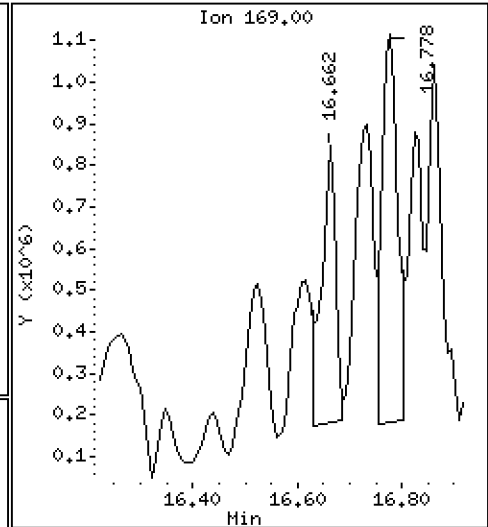
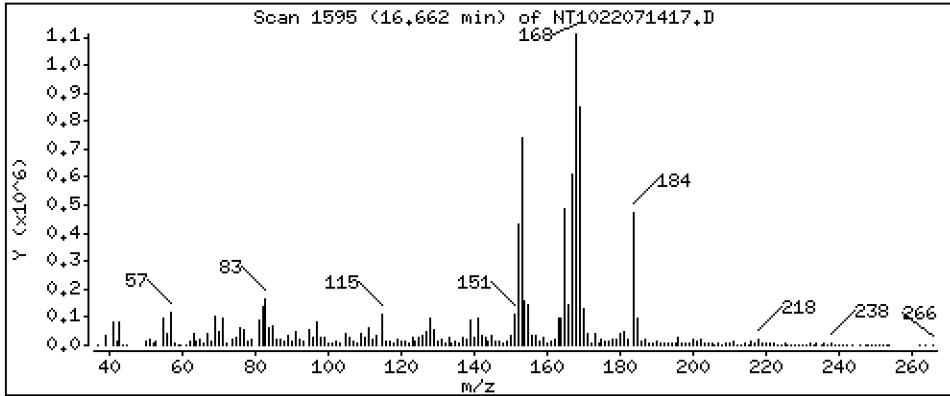
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 45,19 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

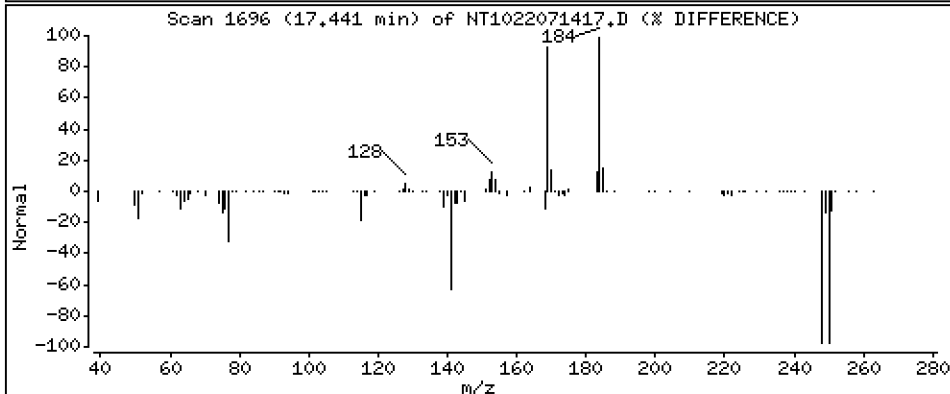
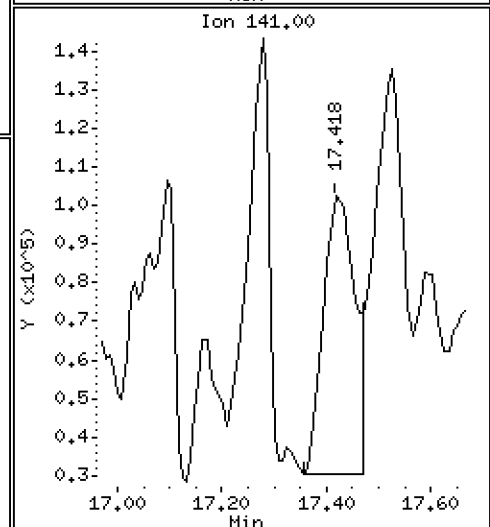
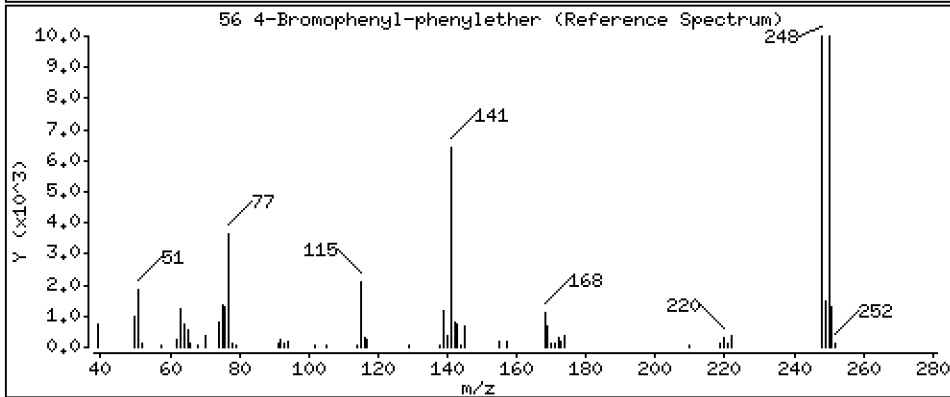
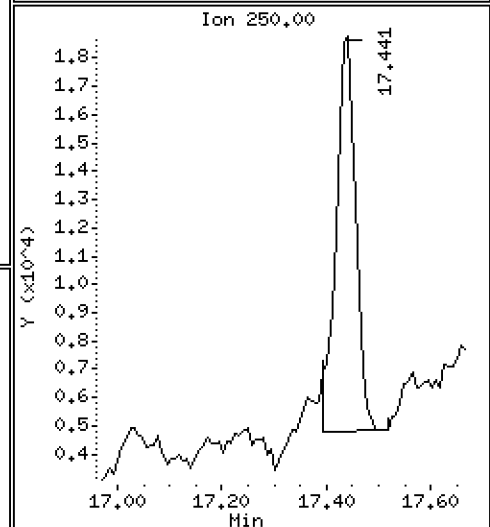
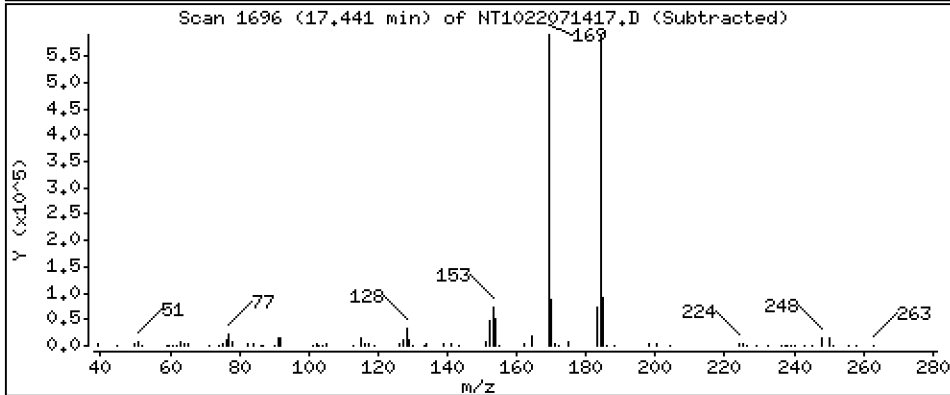
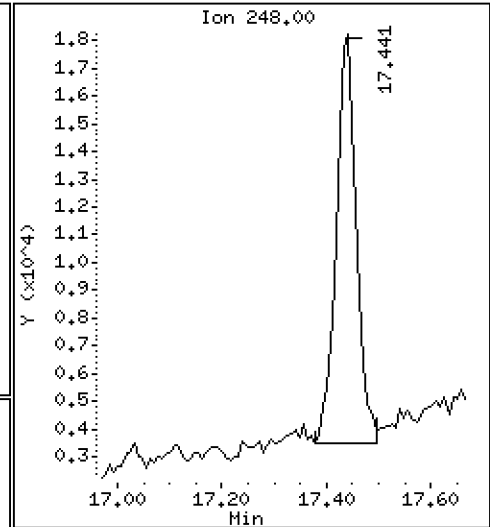
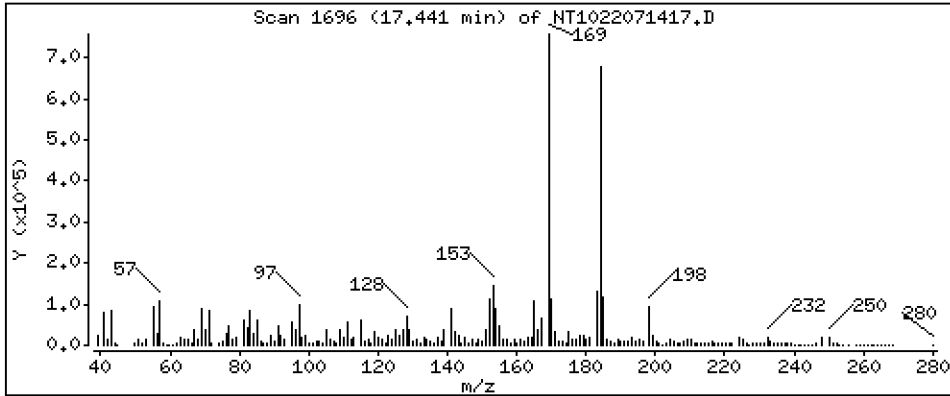
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

56 4-Bromophenyl-phenylether

Concentration: 3.027 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

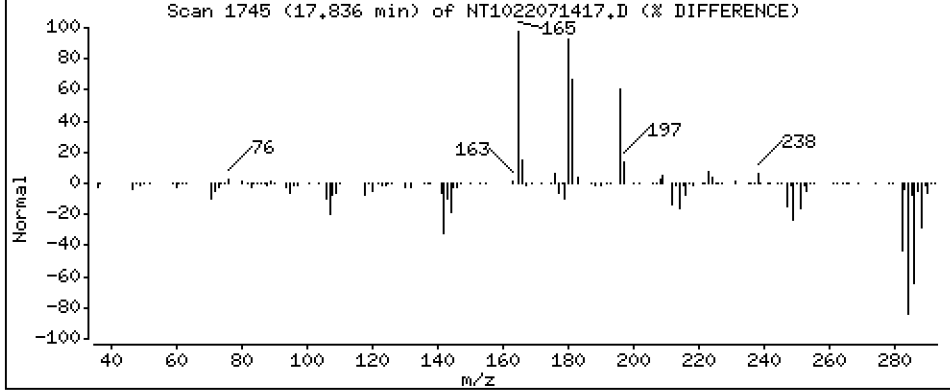
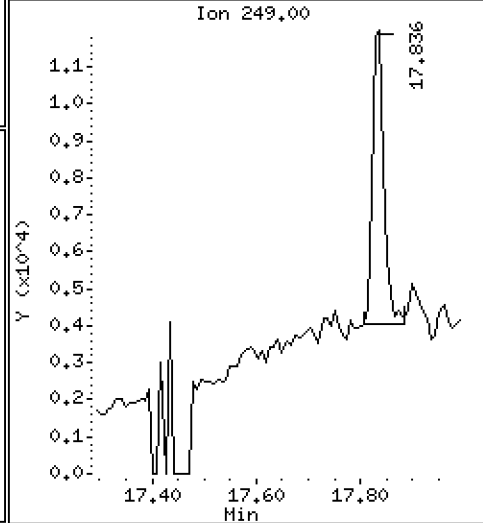
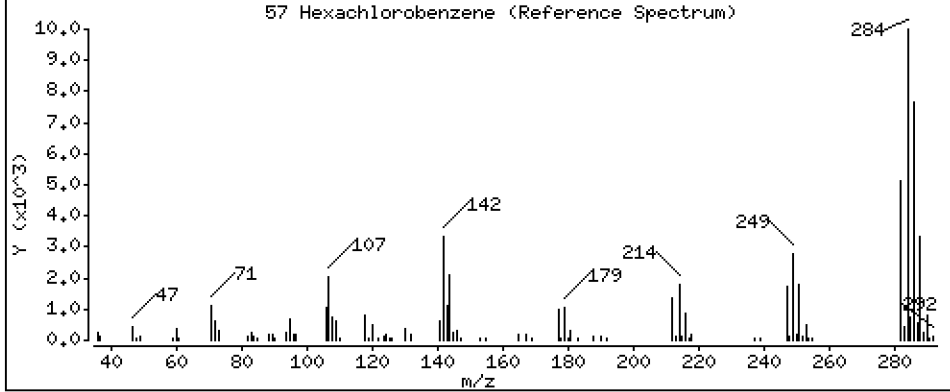
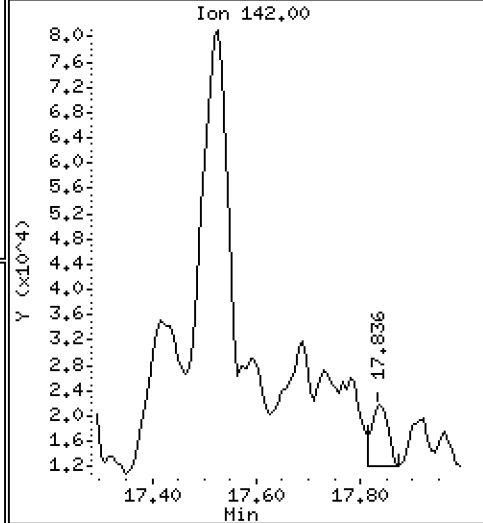
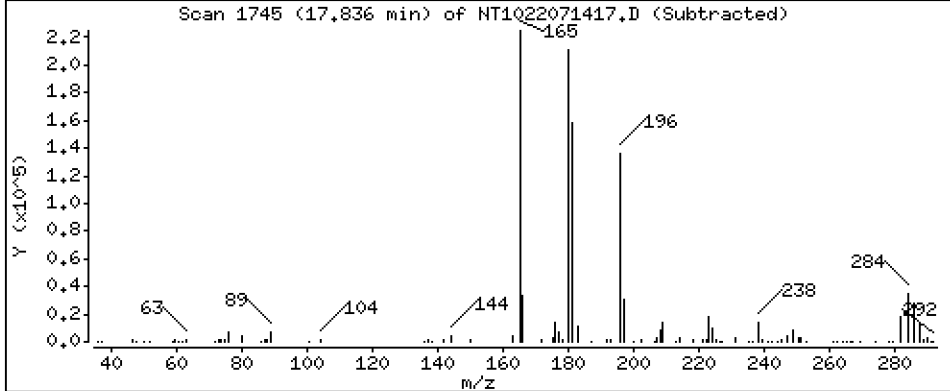
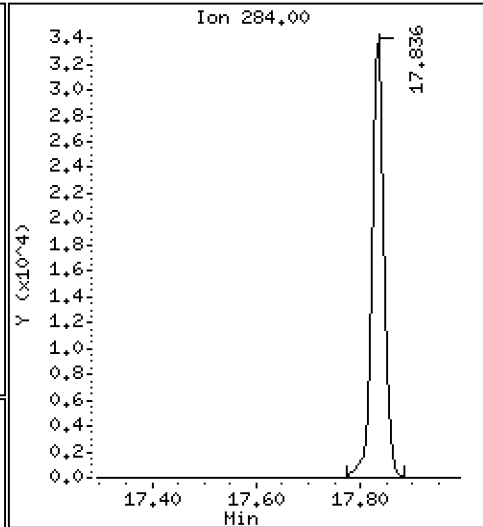
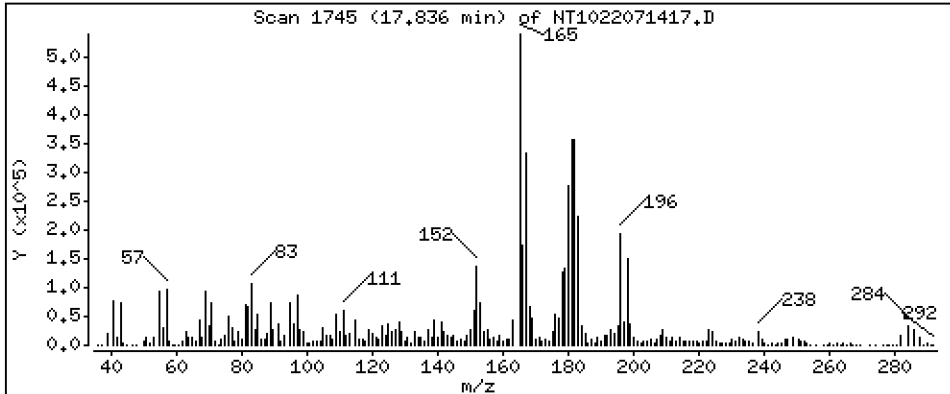
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,731 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

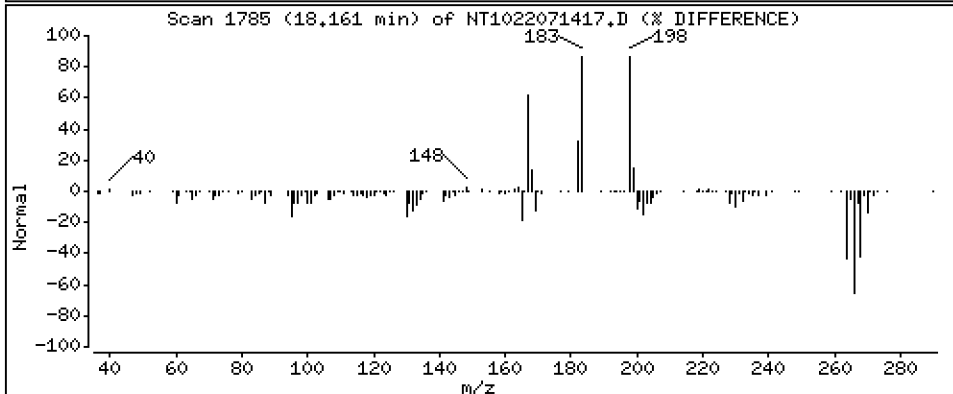
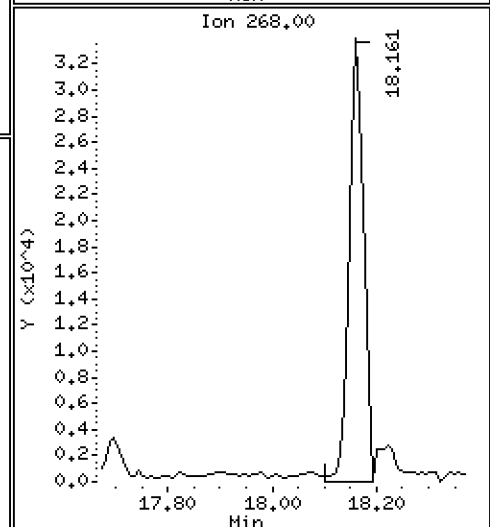
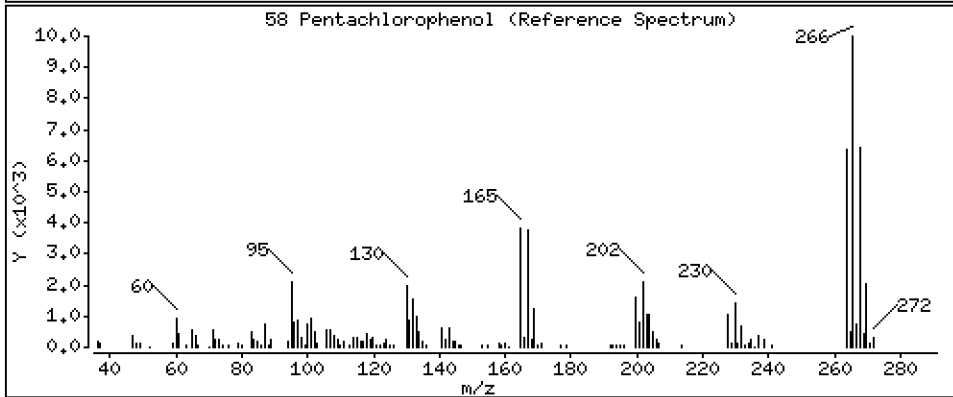
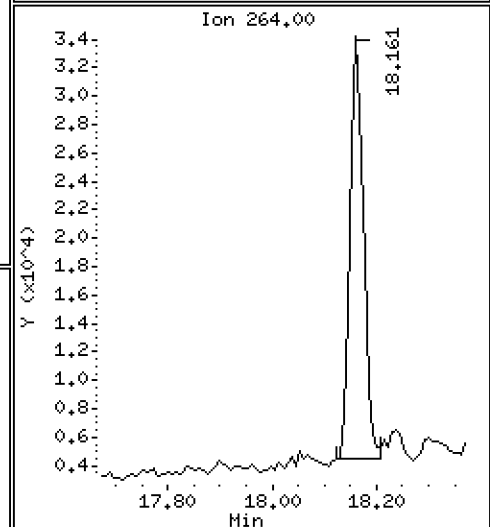
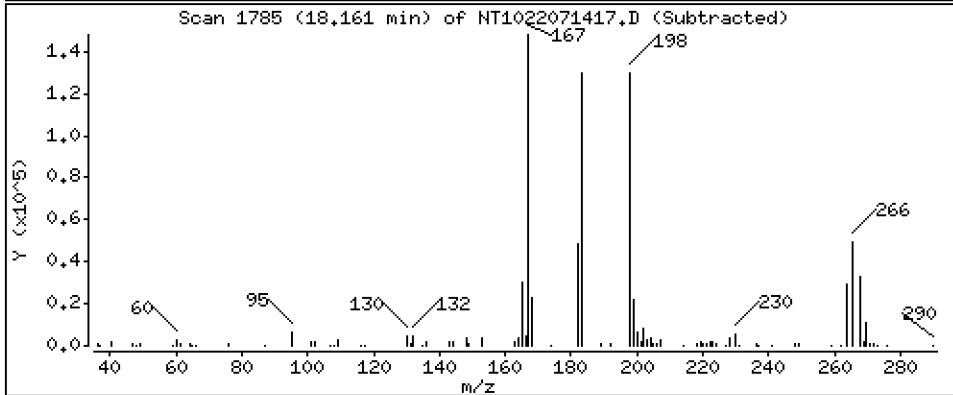
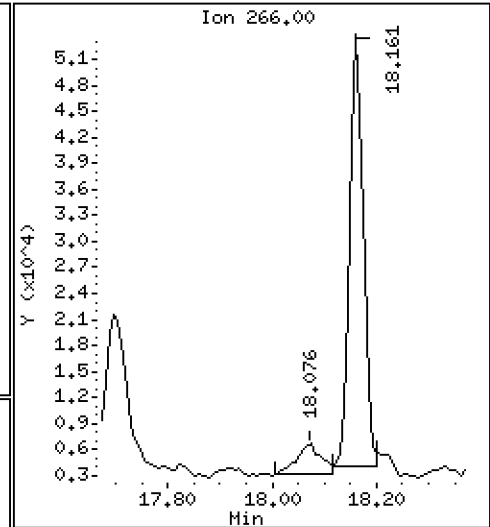
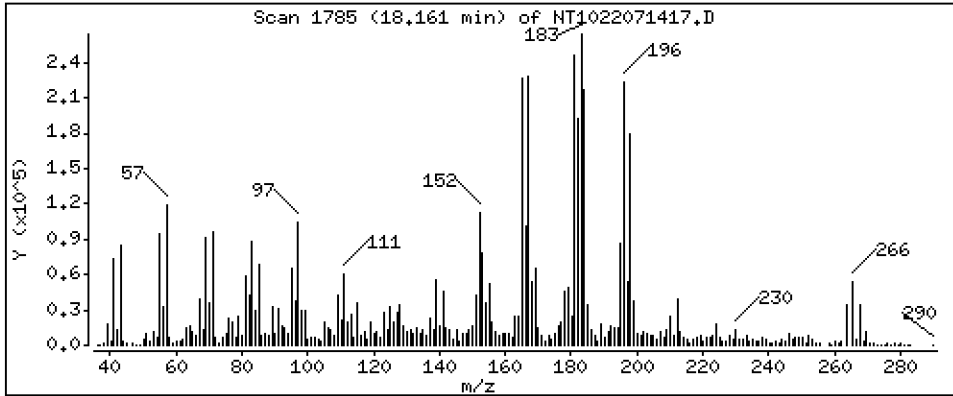
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

58 Pentachlorophenol

Concentration: 28.01 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

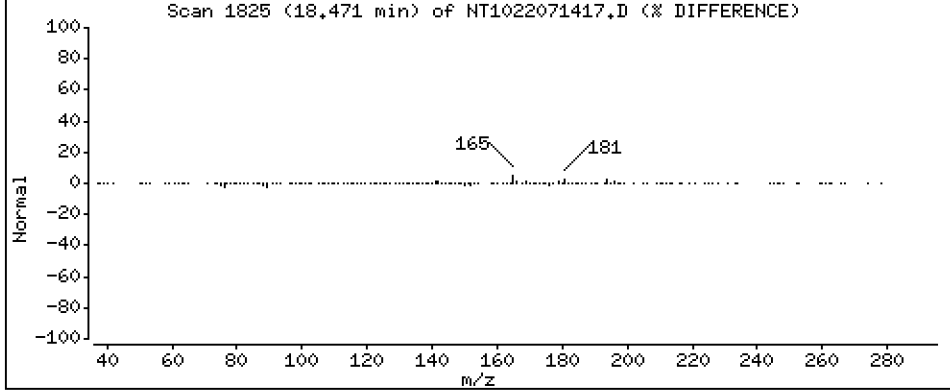
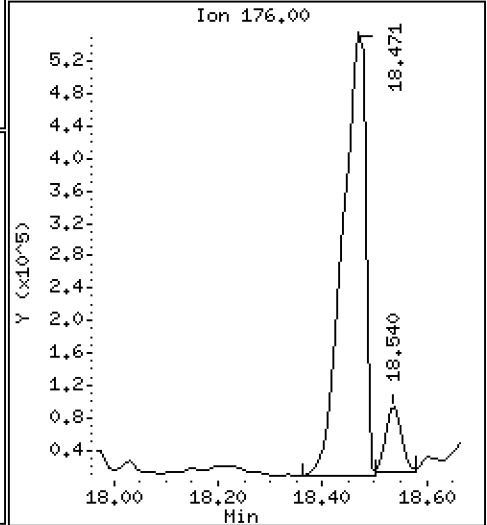
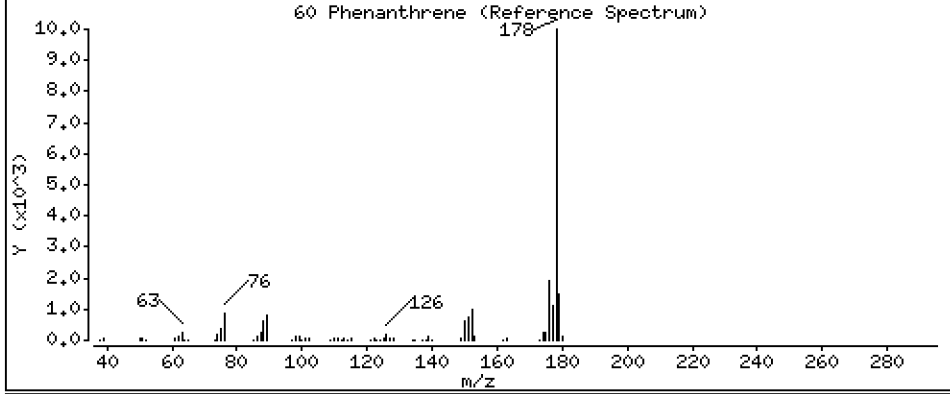
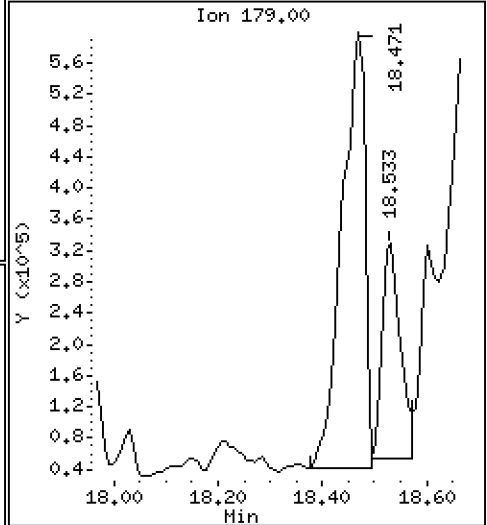
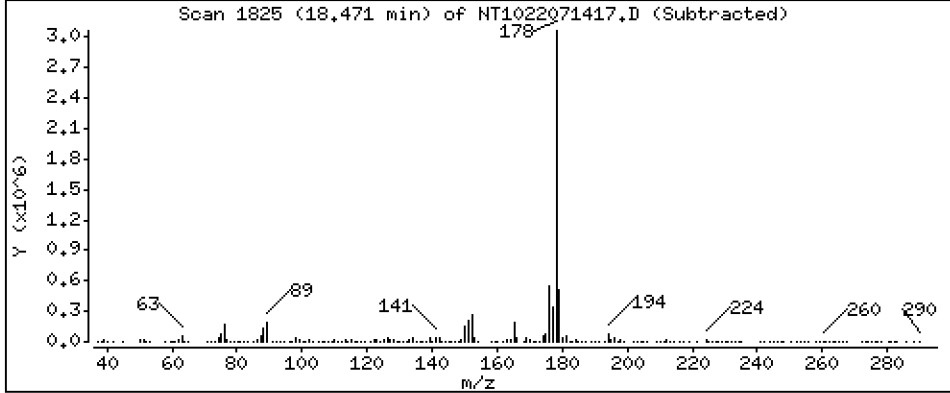
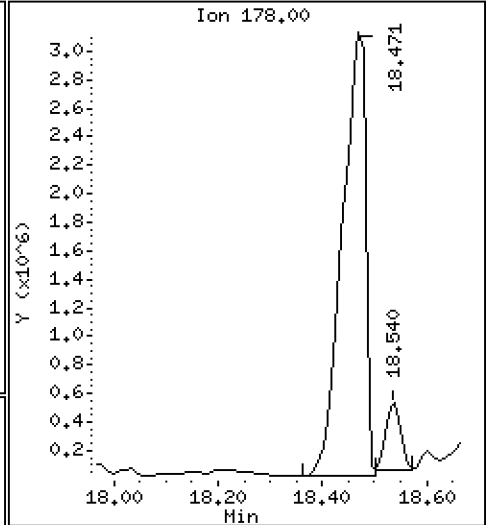
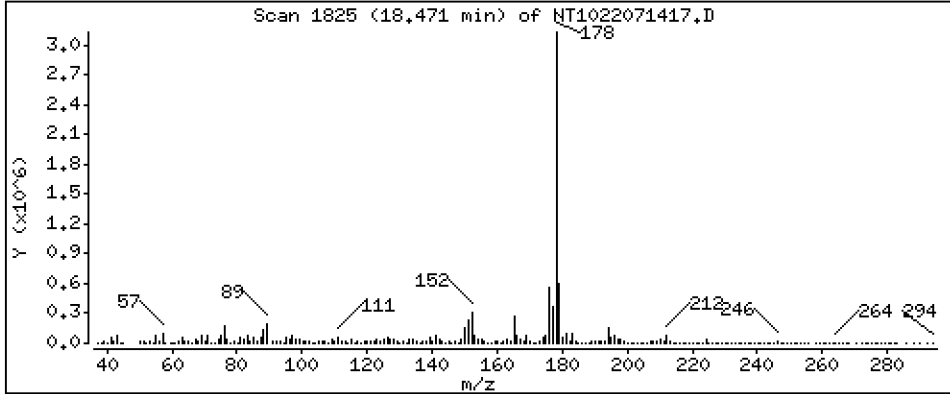
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 198,6 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

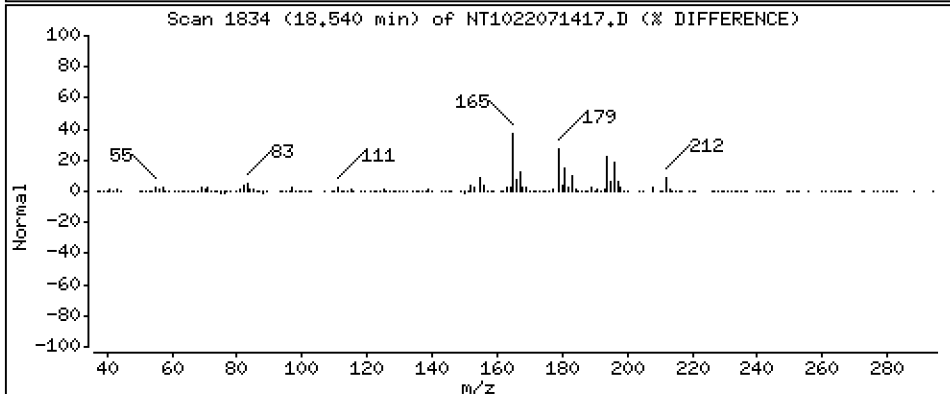
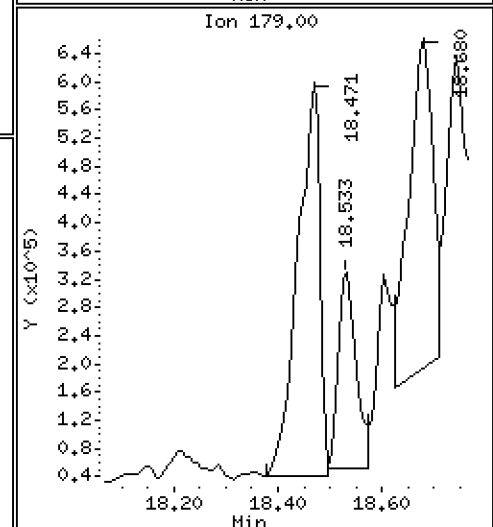
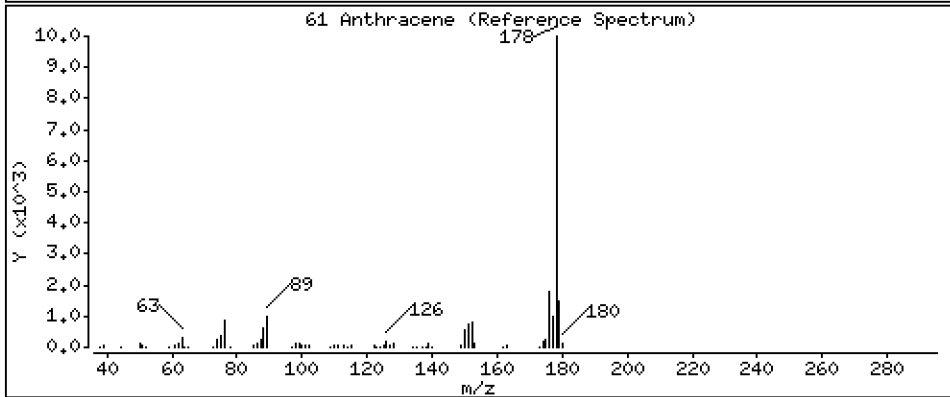
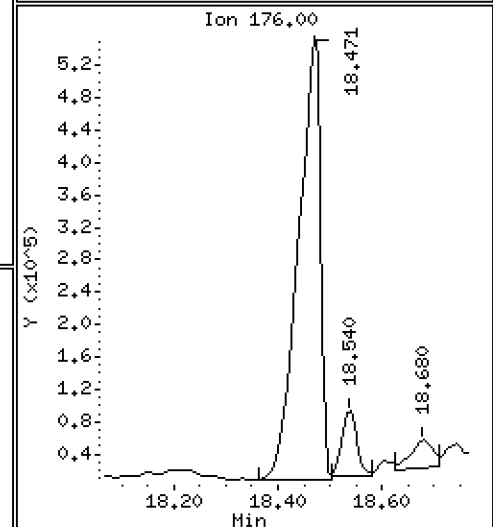
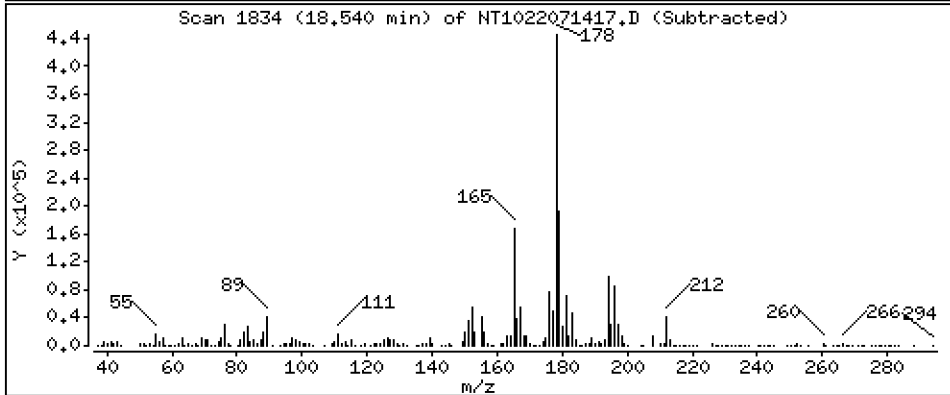
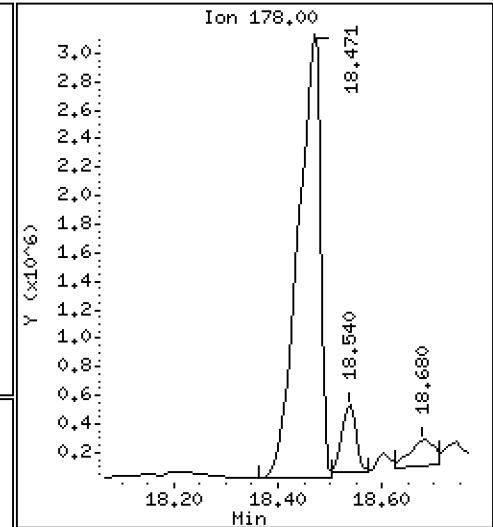
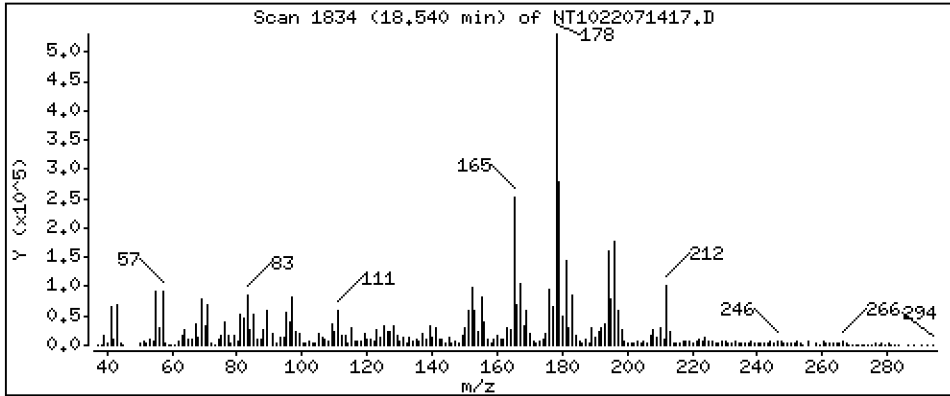
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 18,34 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

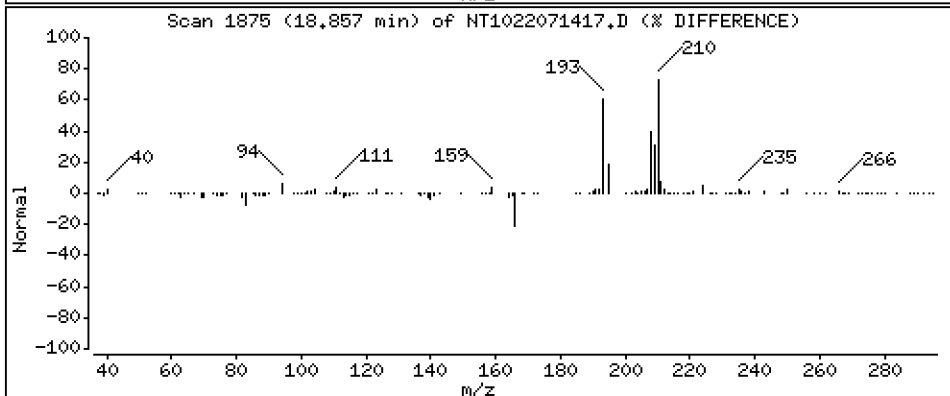
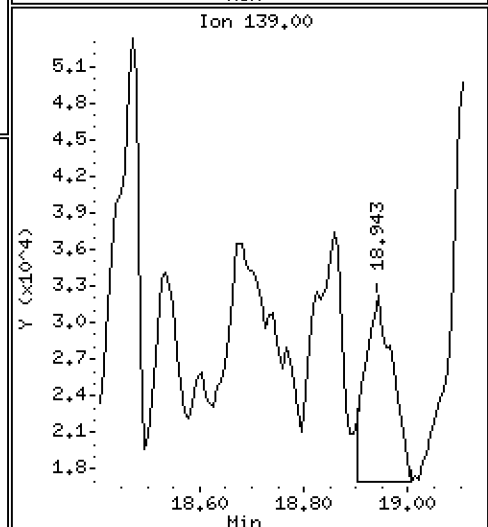
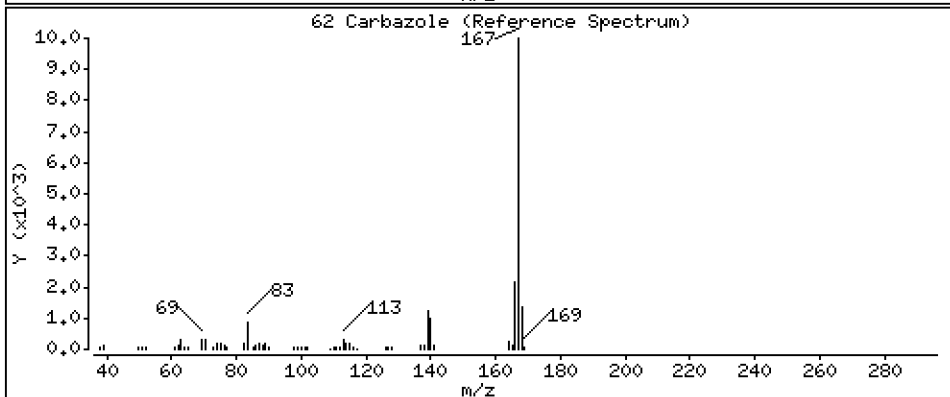
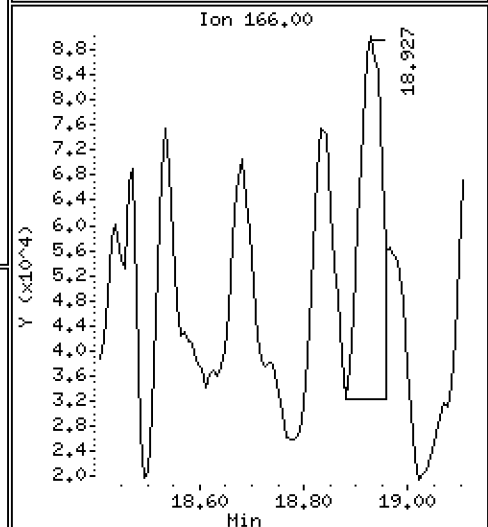
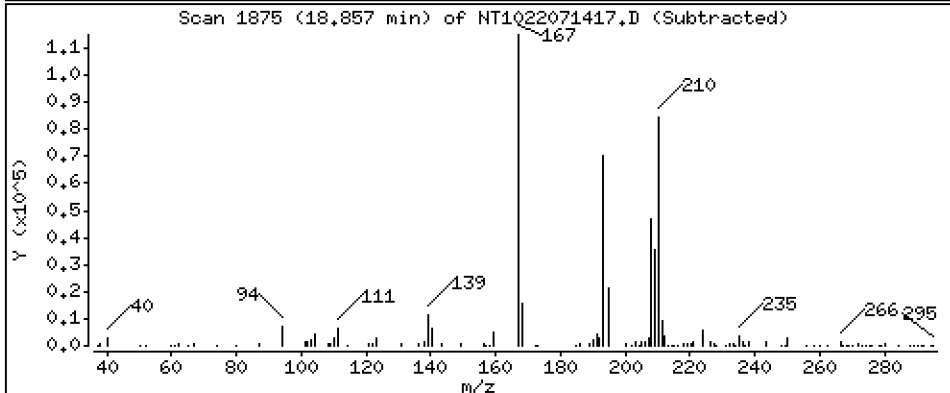
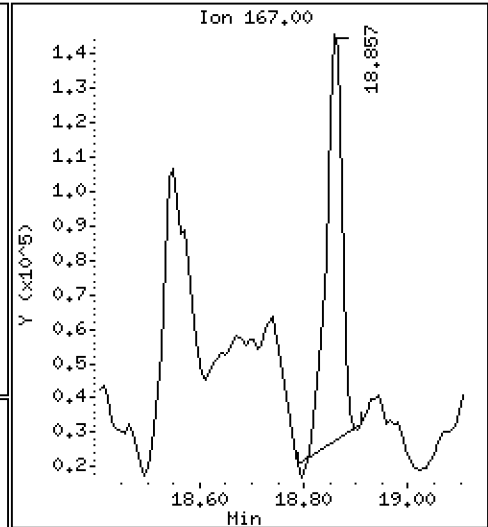
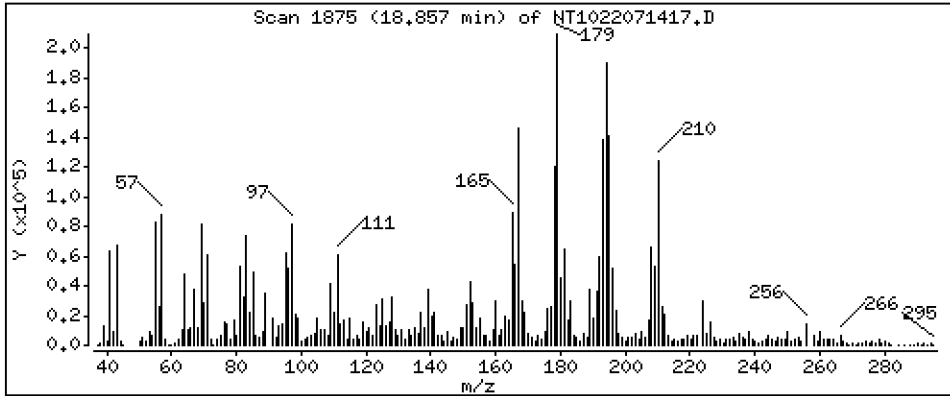
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,347 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

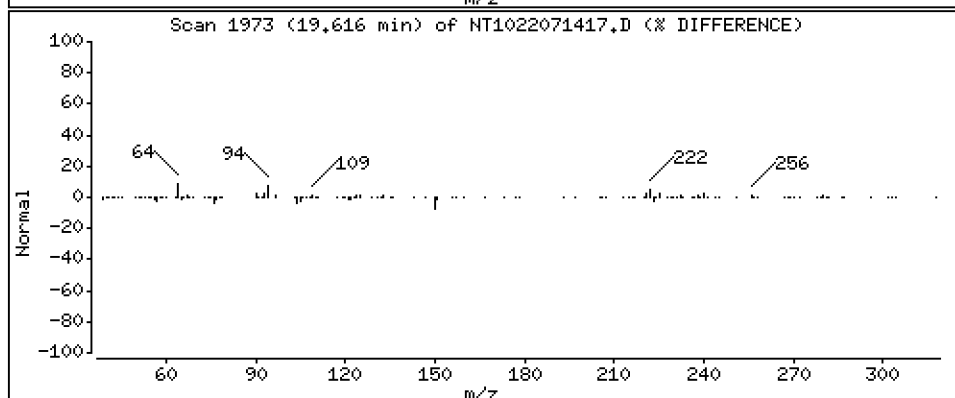
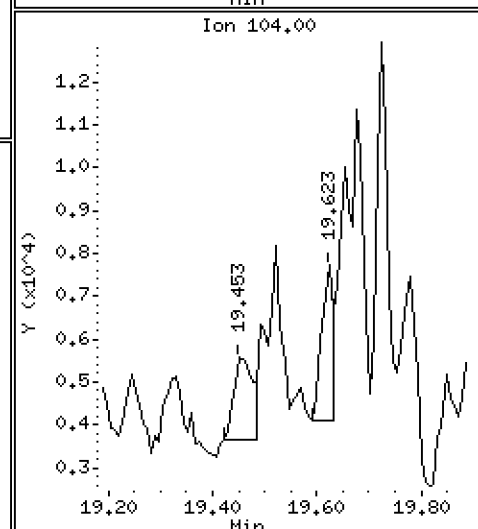
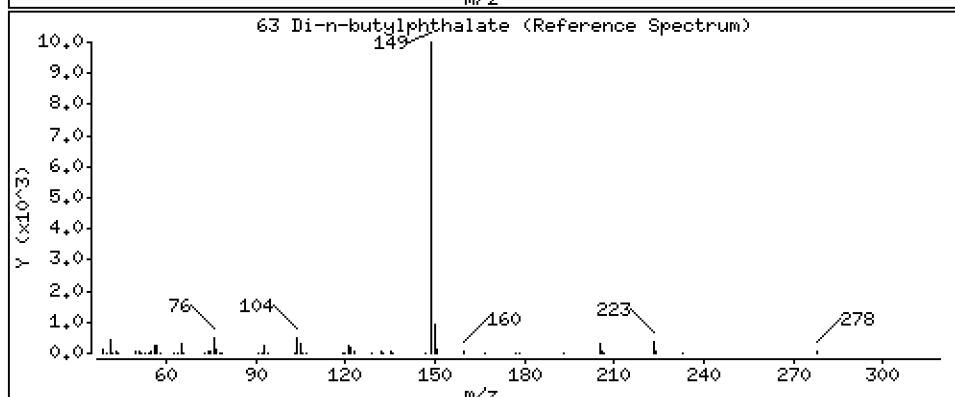
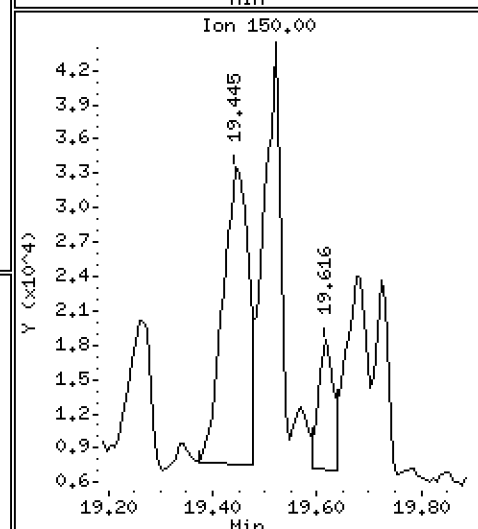
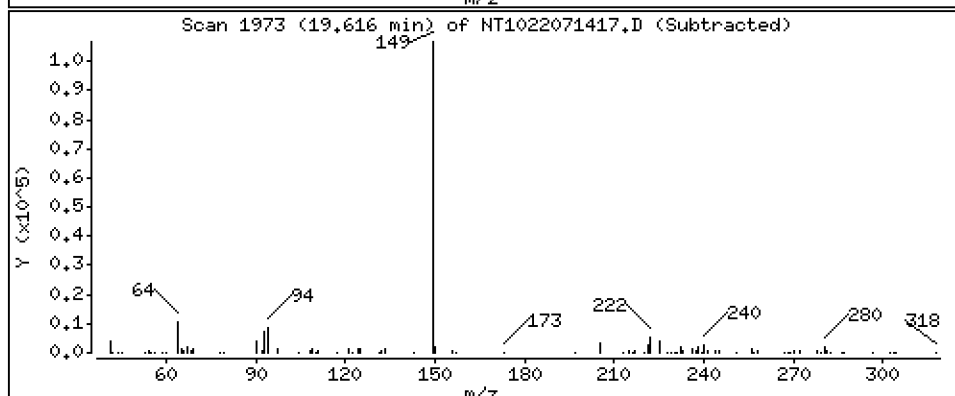
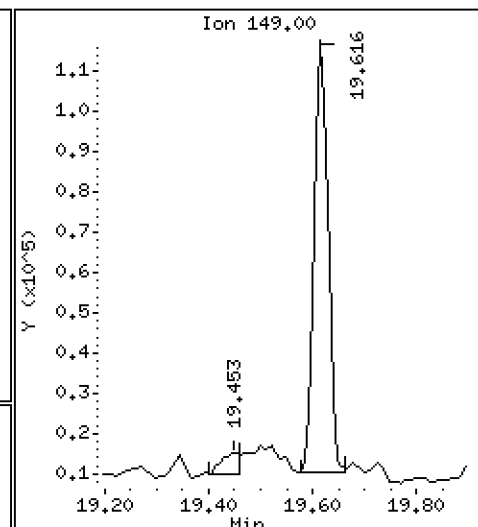
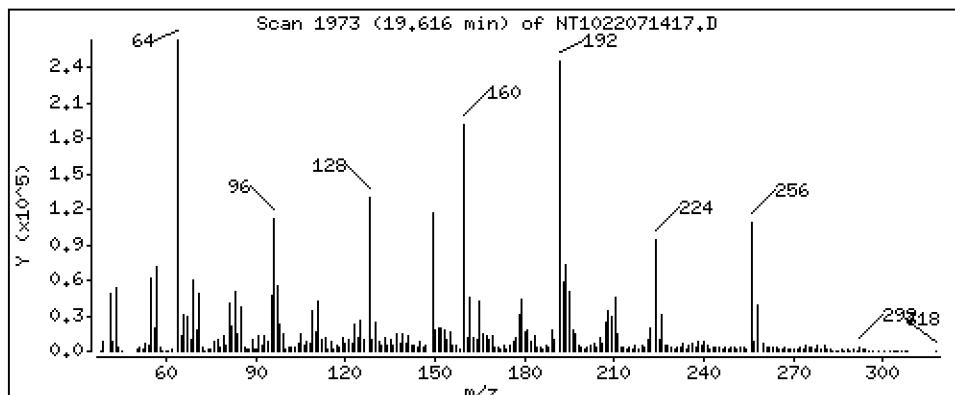
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 2,737 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

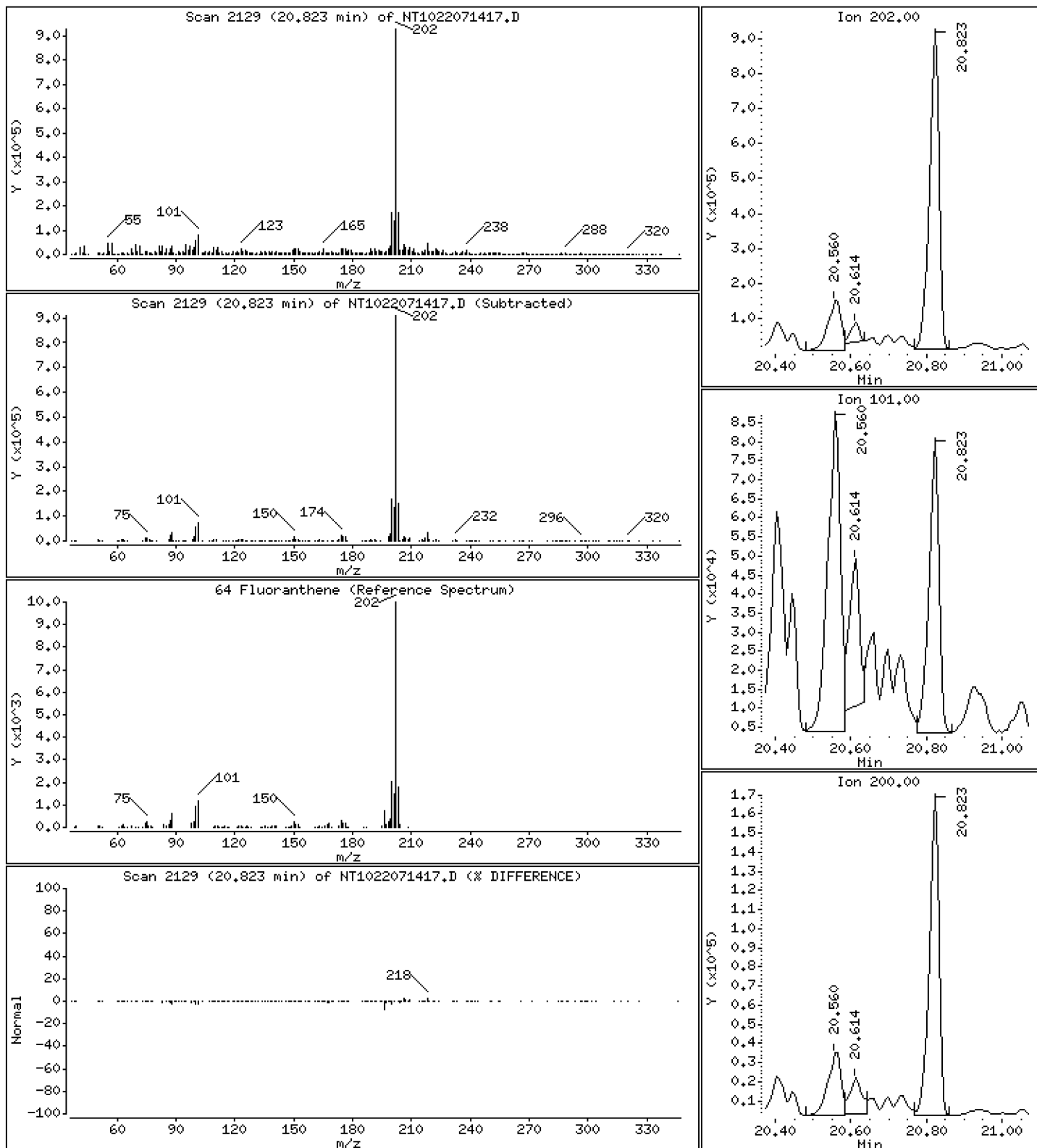
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 11,11 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

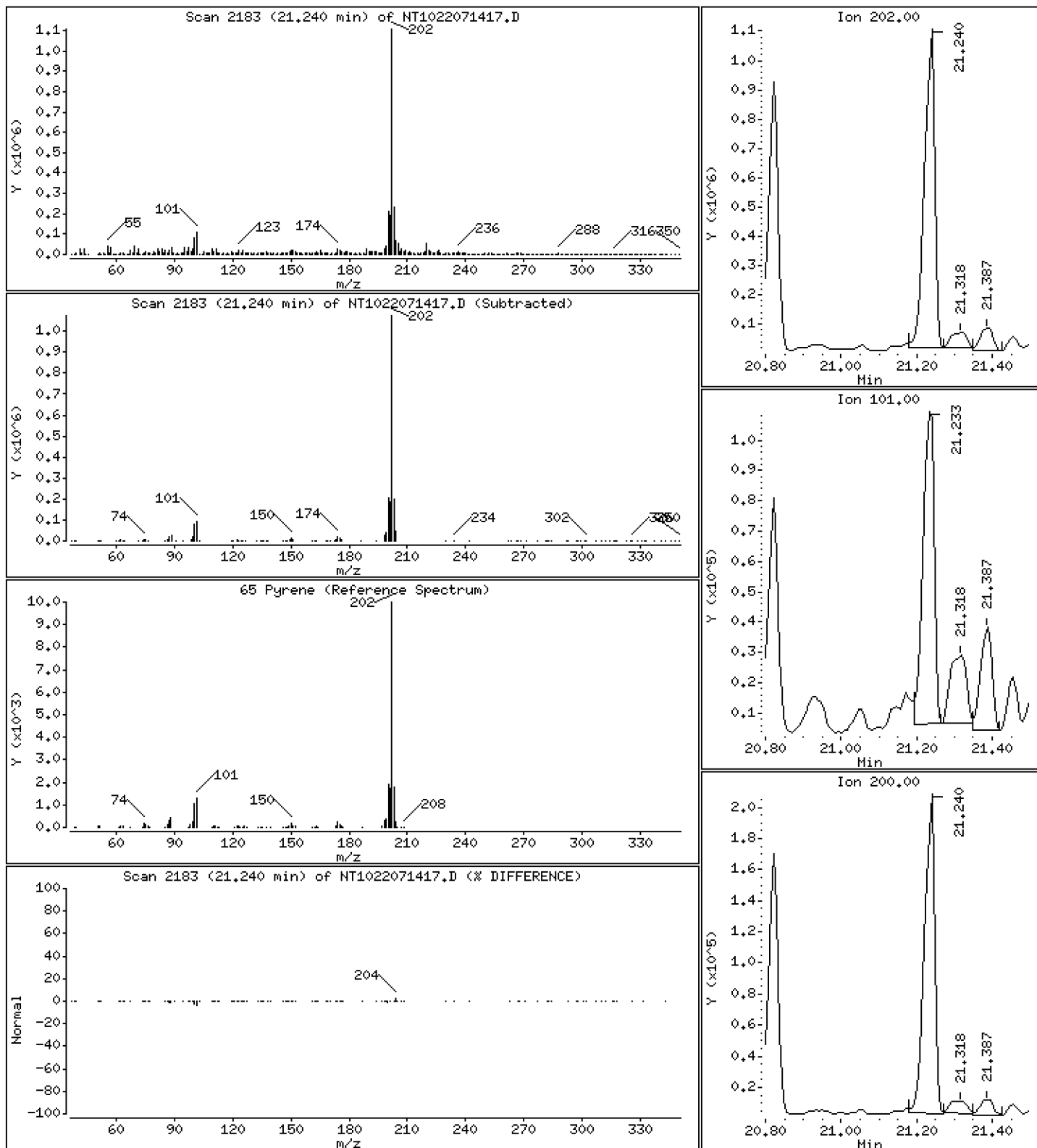
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 14,31 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

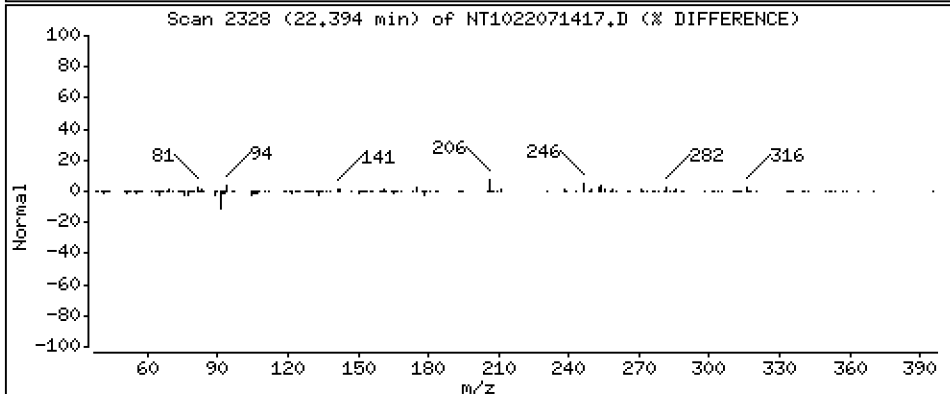
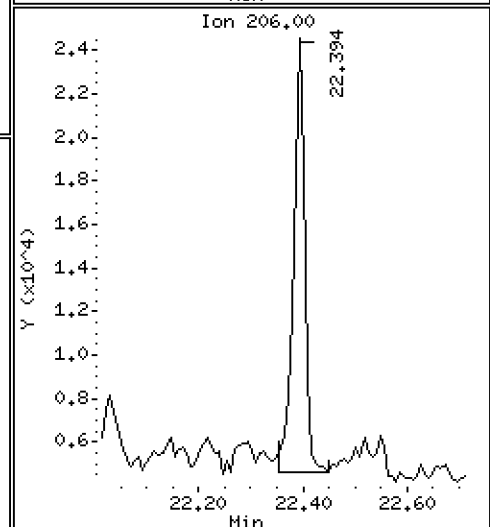
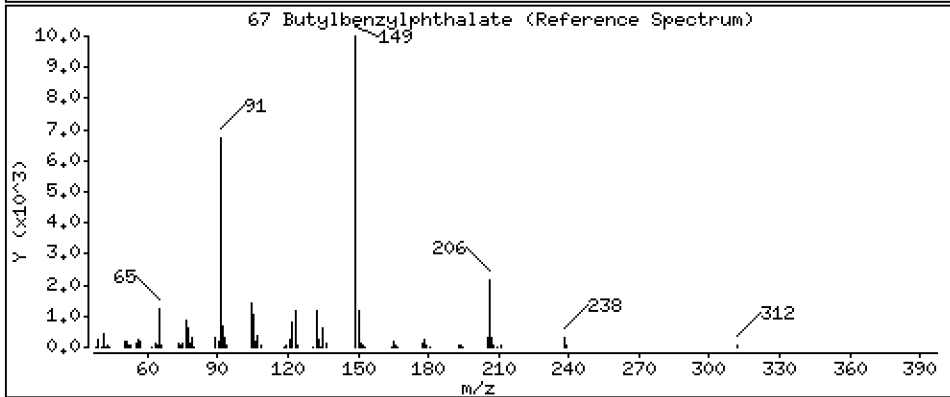
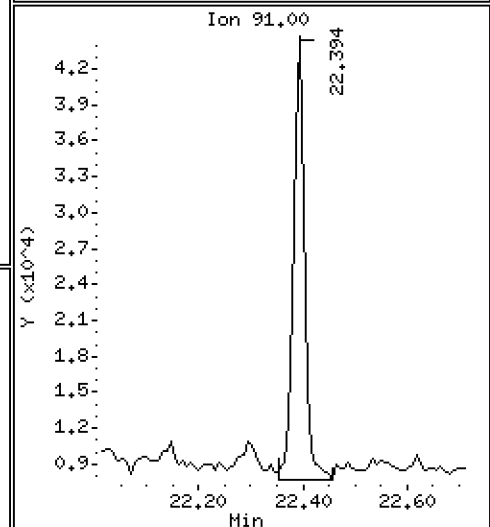
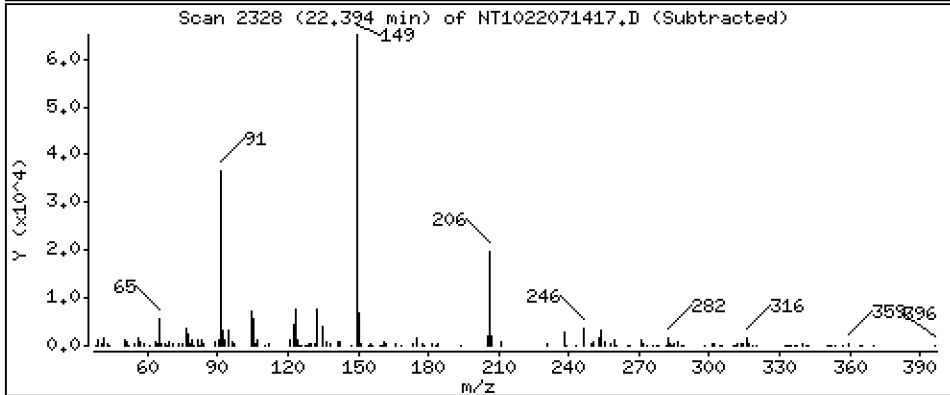
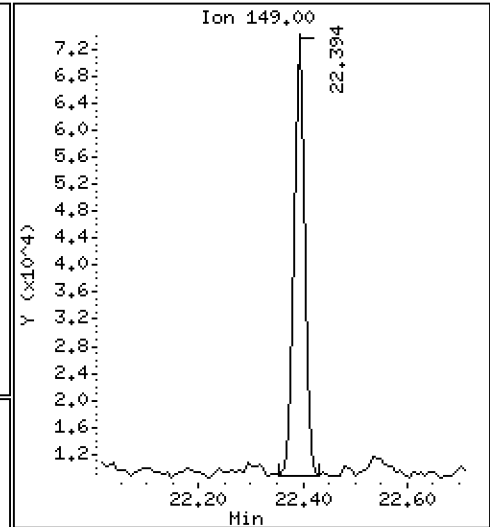
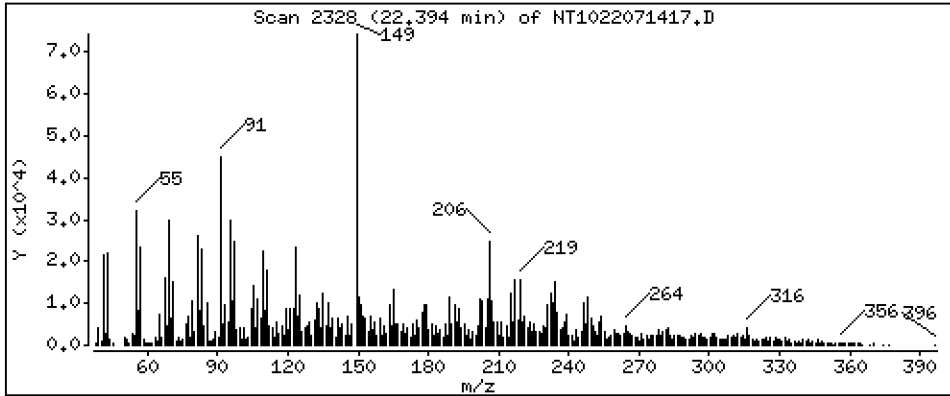
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 2,503 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

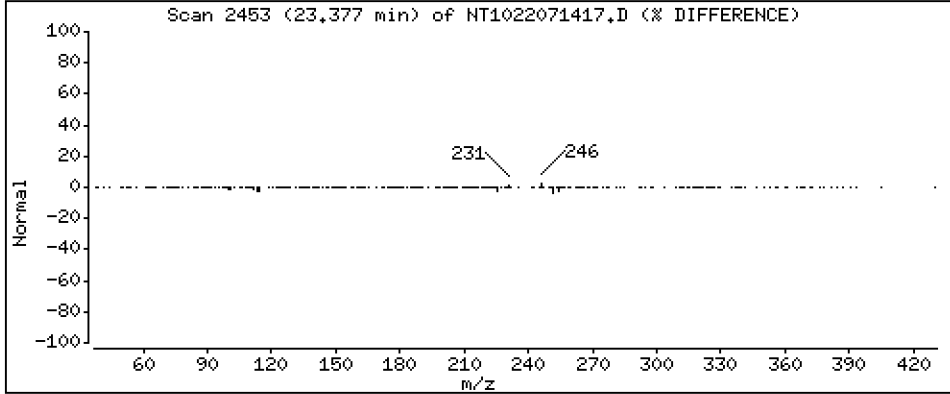
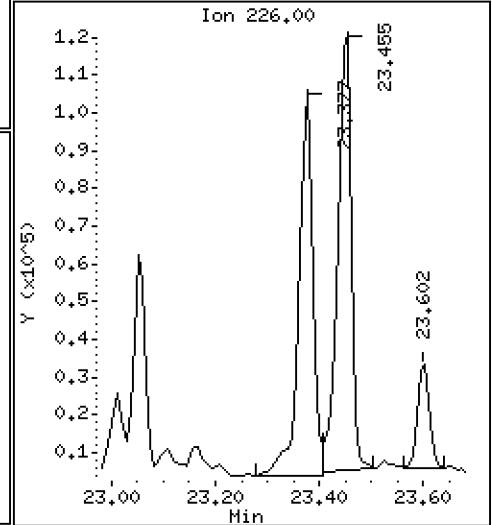
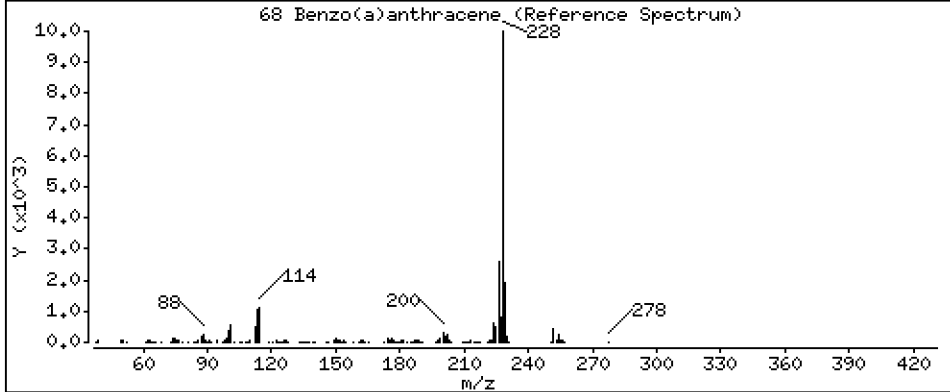
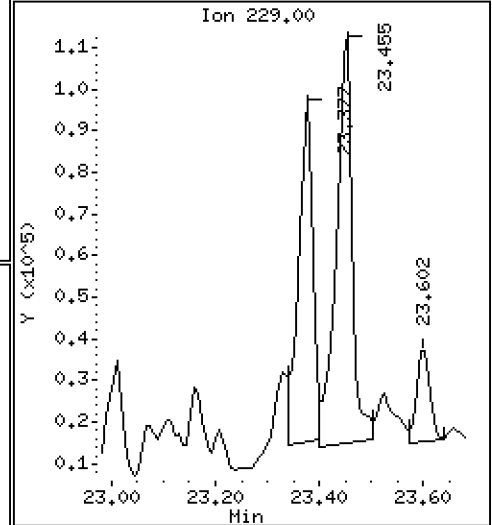
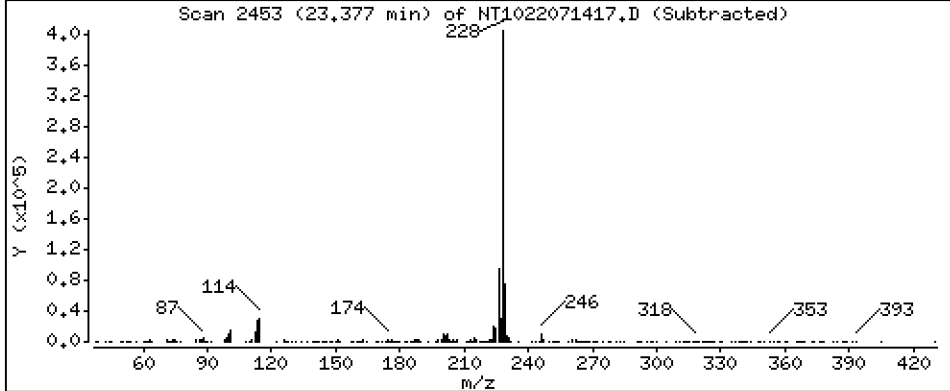
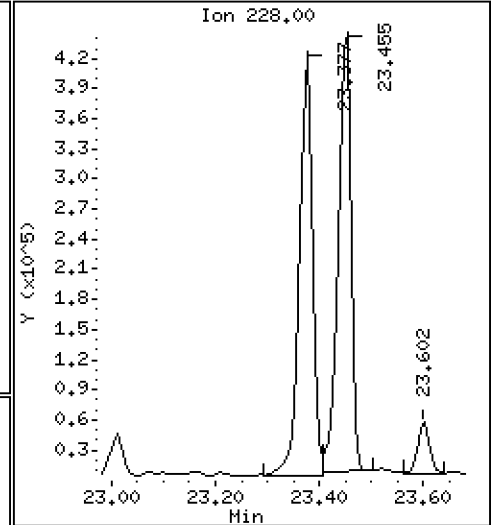
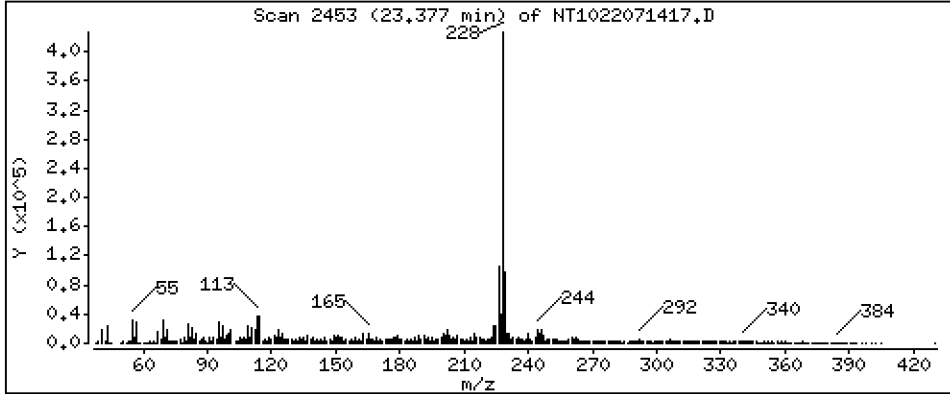
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 9,444 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

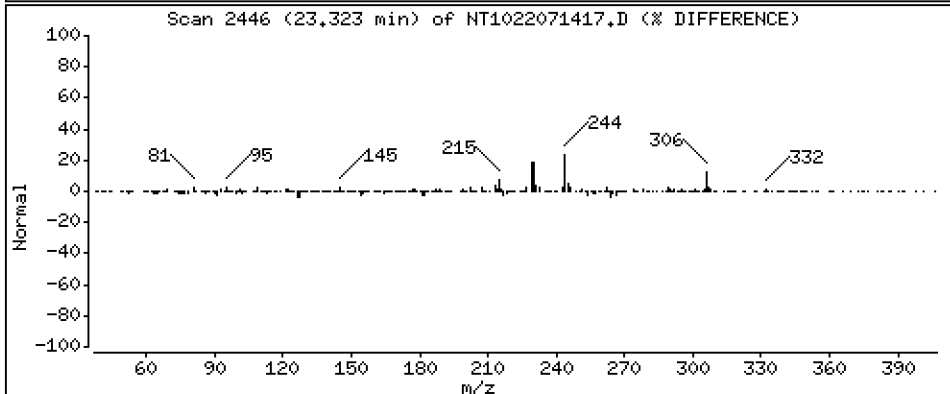
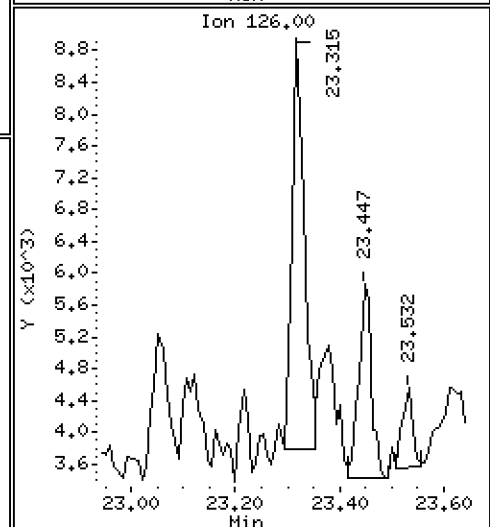
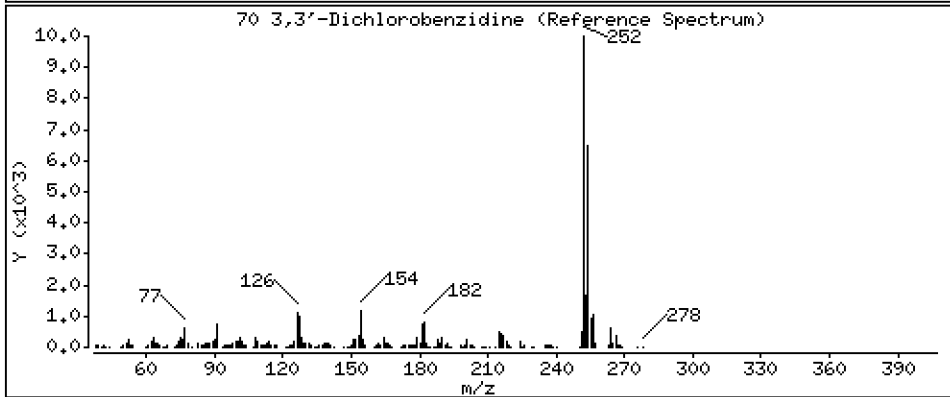
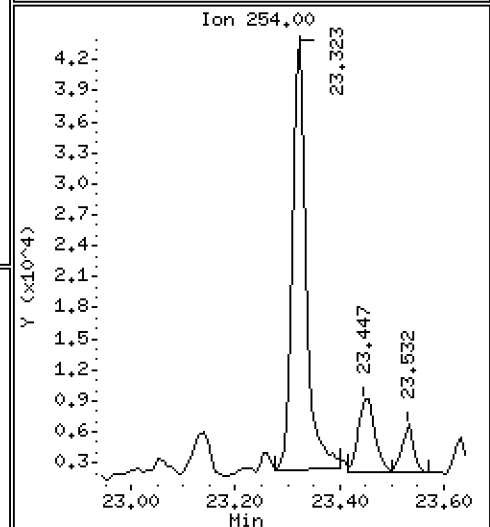
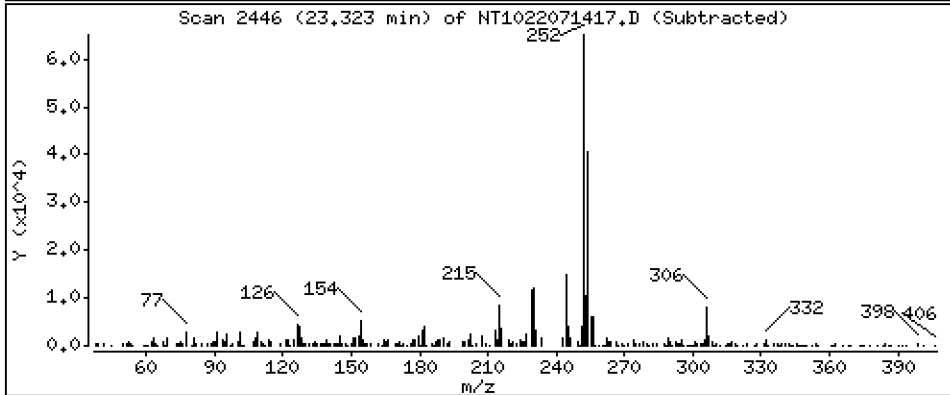
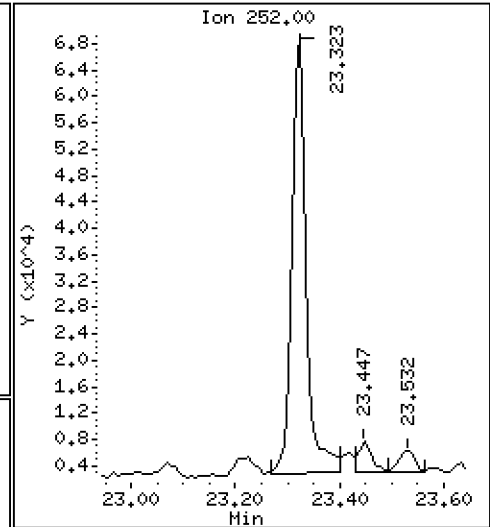
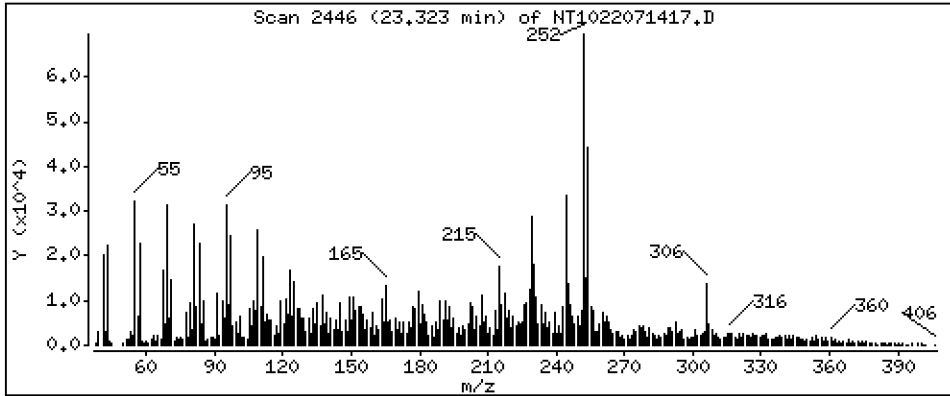
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 4,930 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

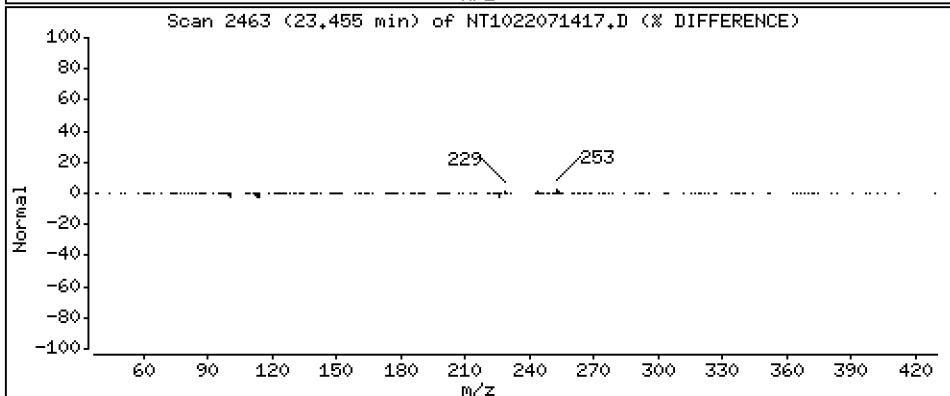
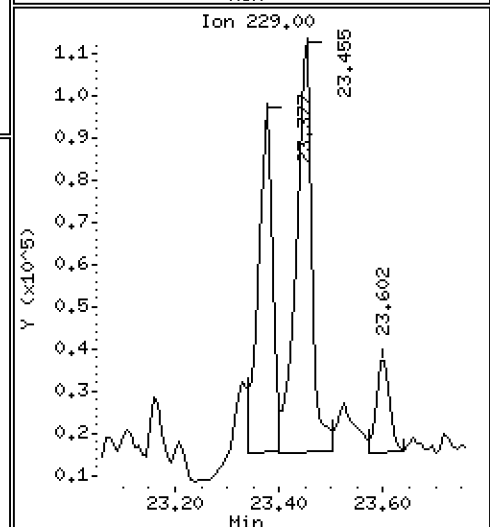
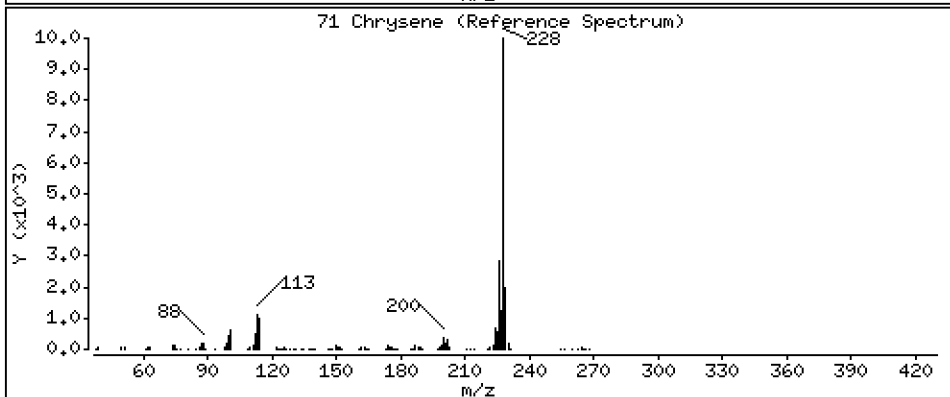
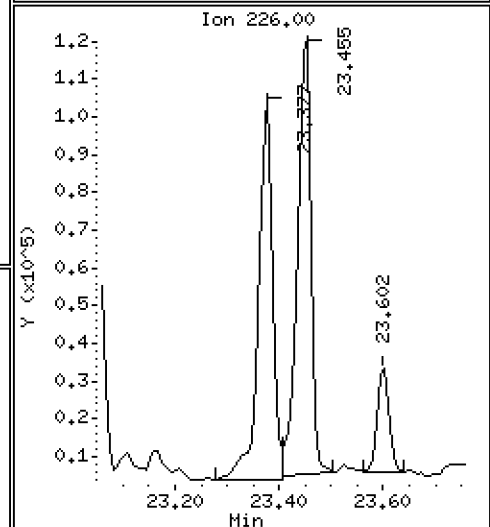
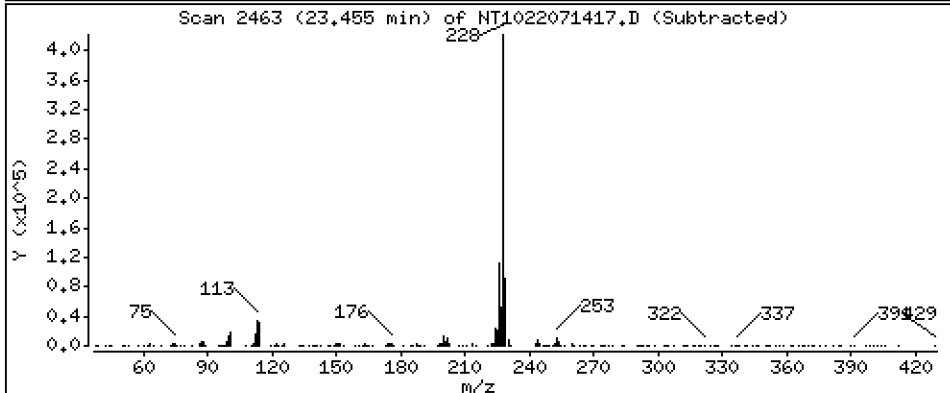
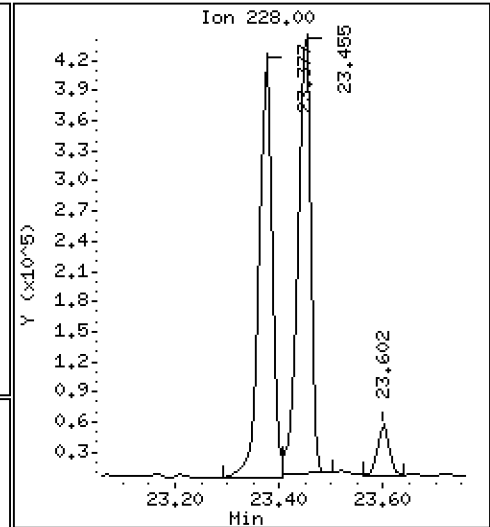
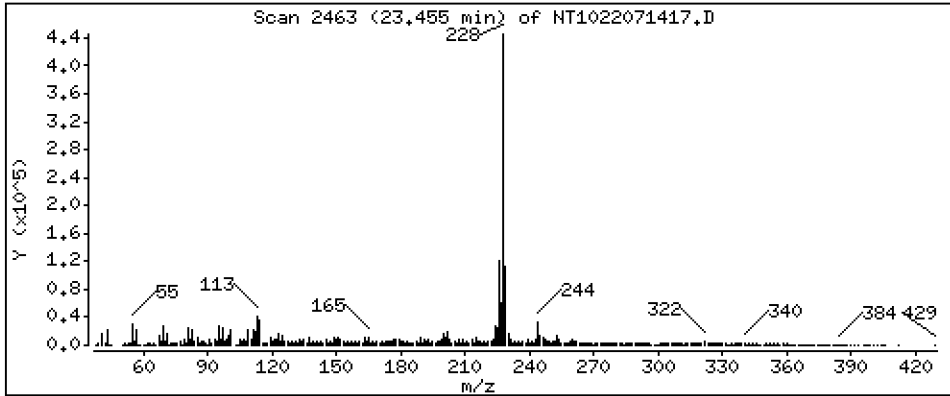
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 12,44 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

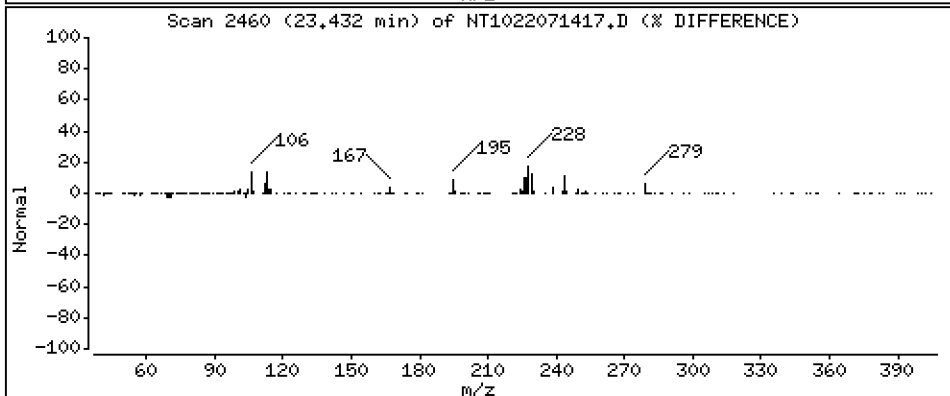
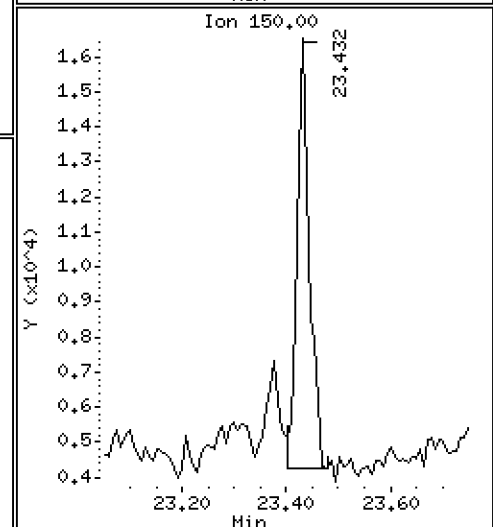
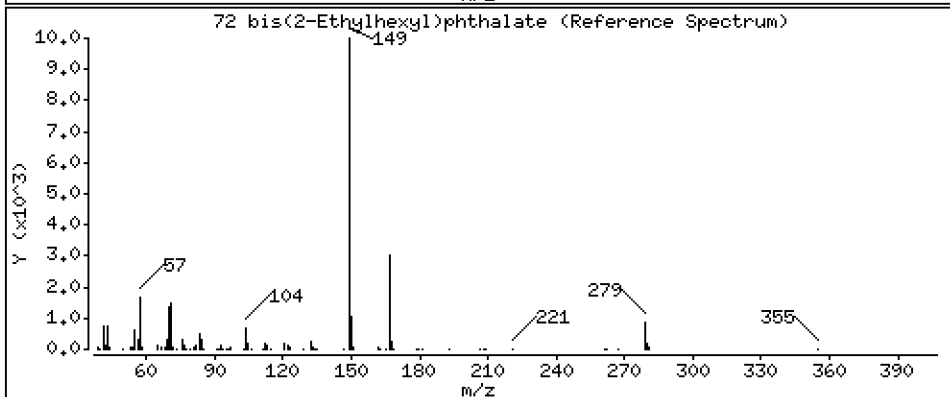
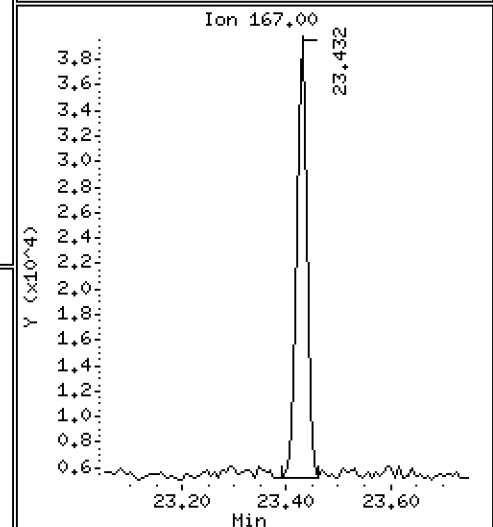
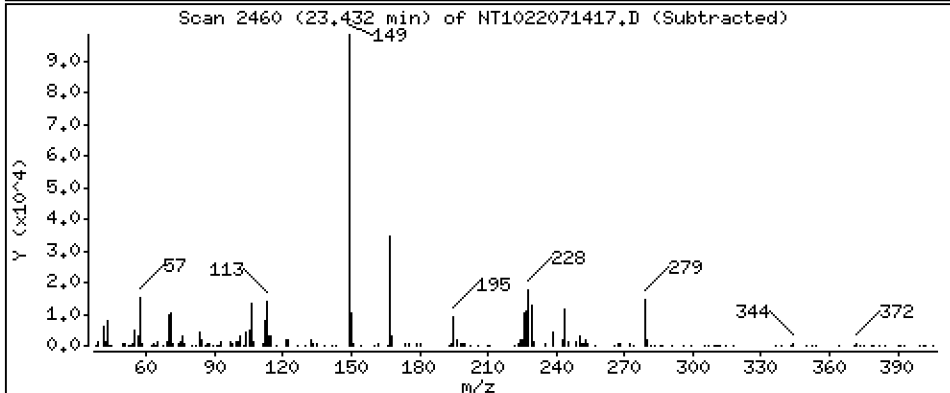
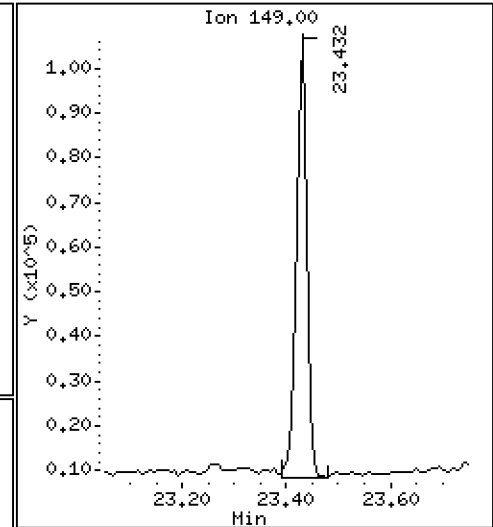
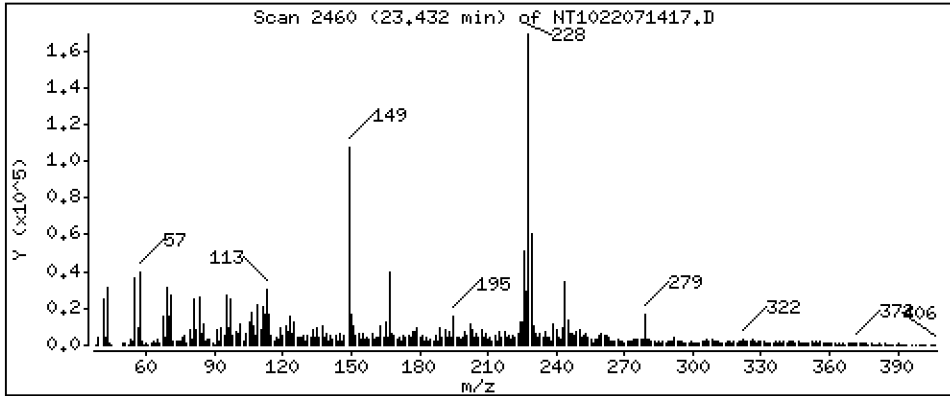
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,365 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

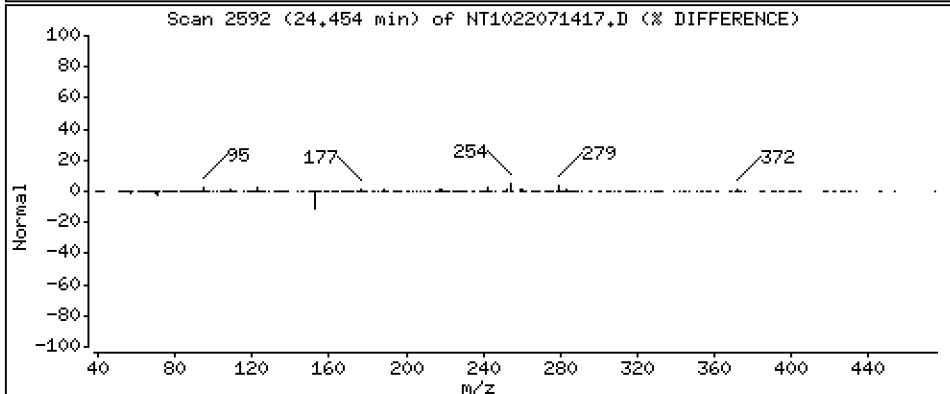
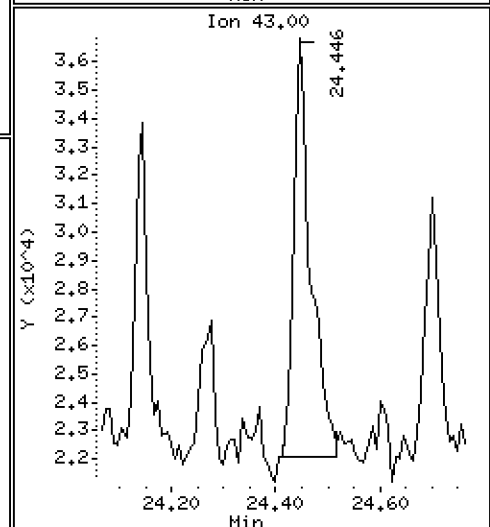
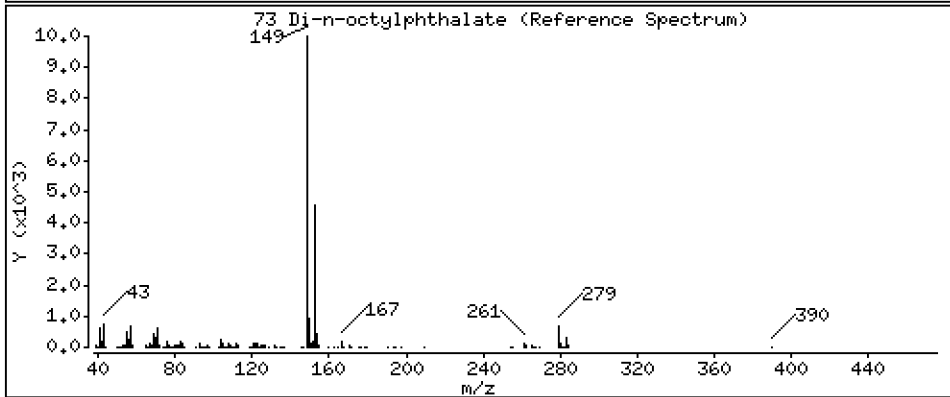
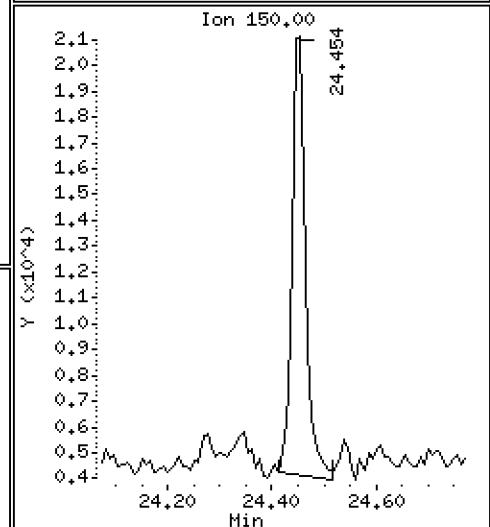
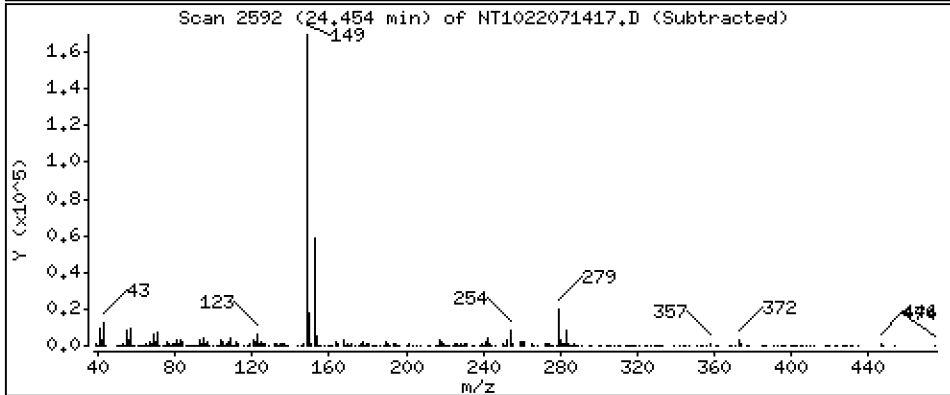
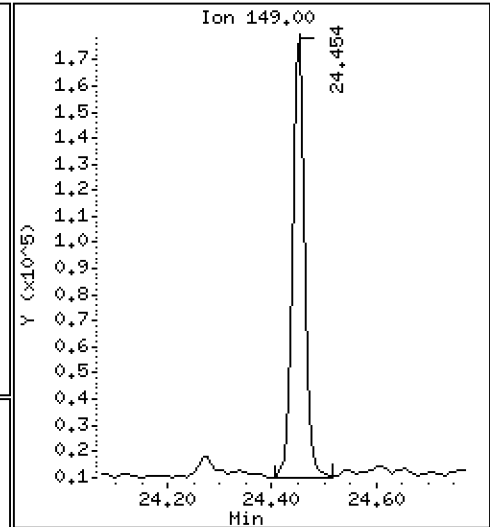
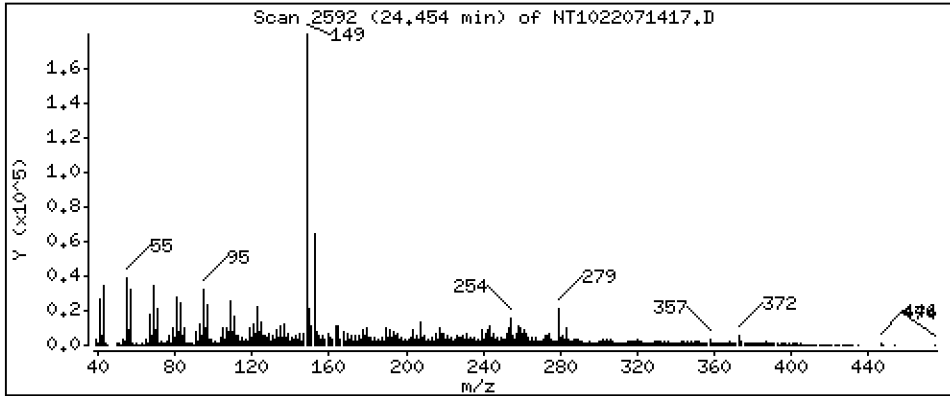
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,152 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

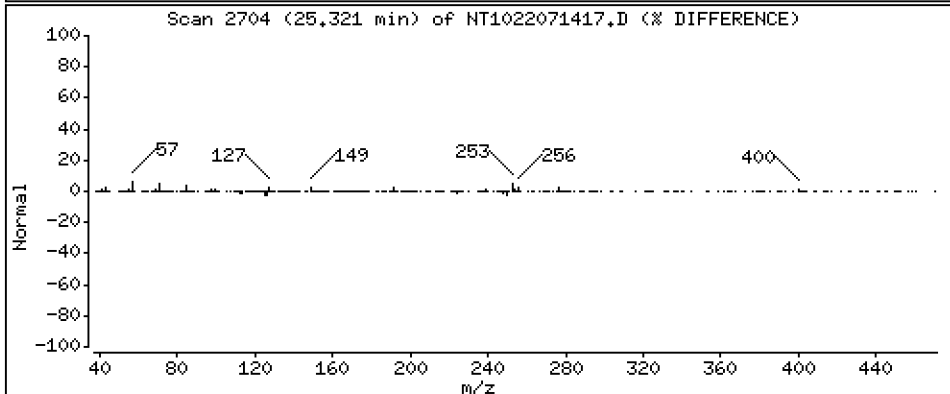
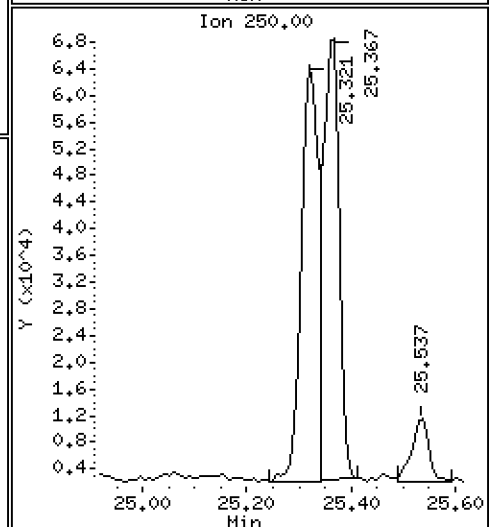
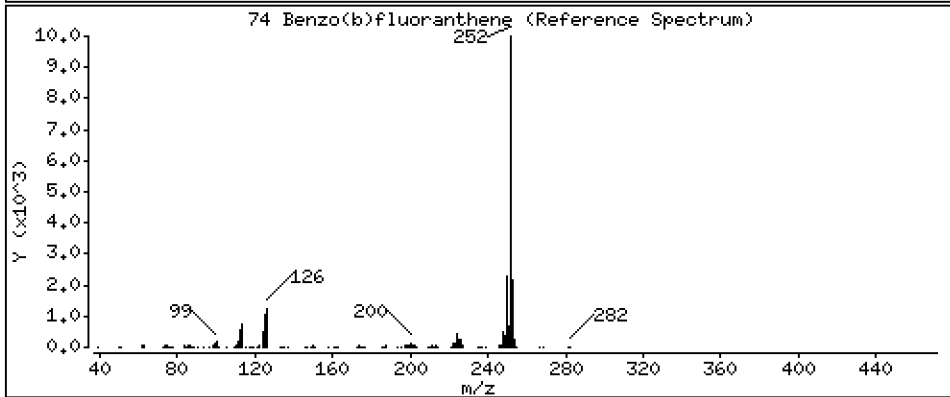
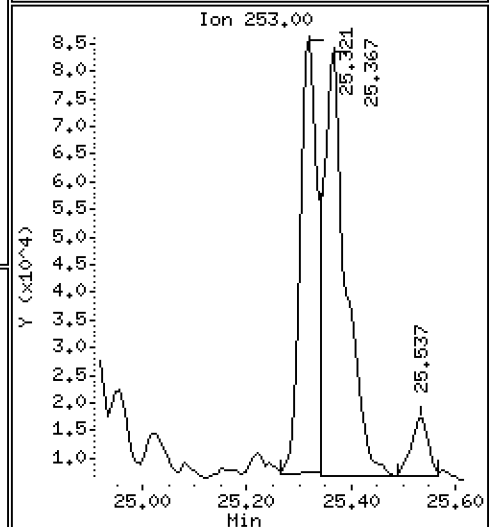
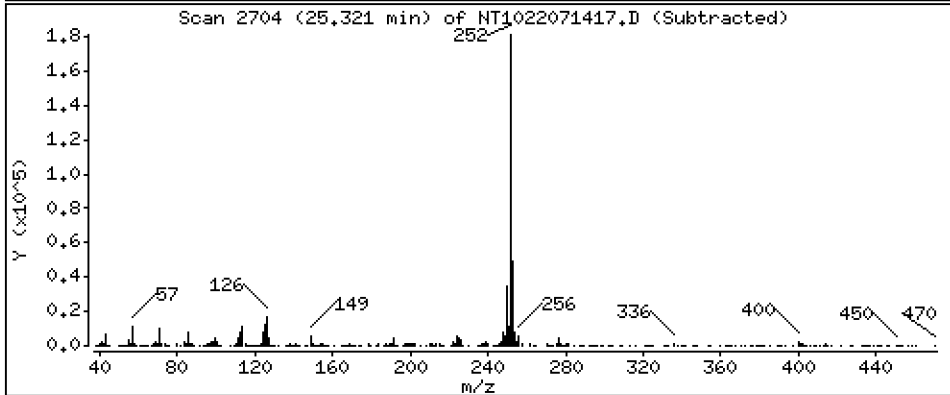
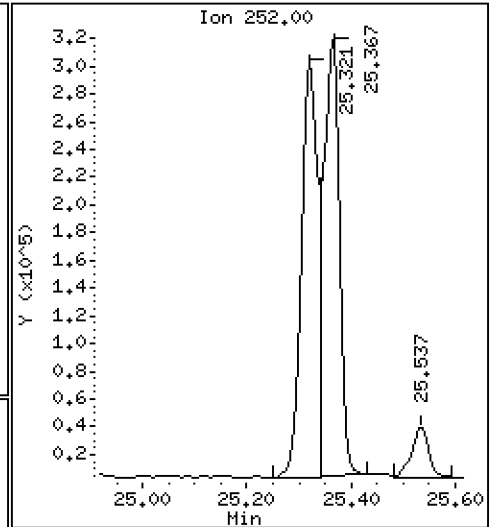
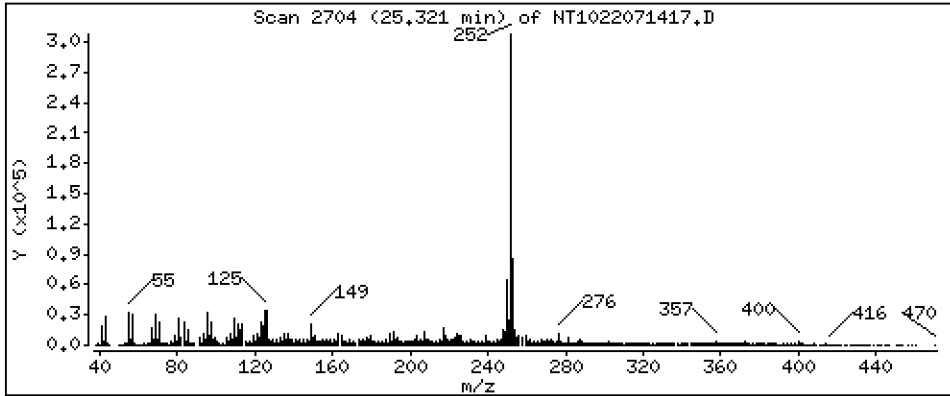
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 7,644 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

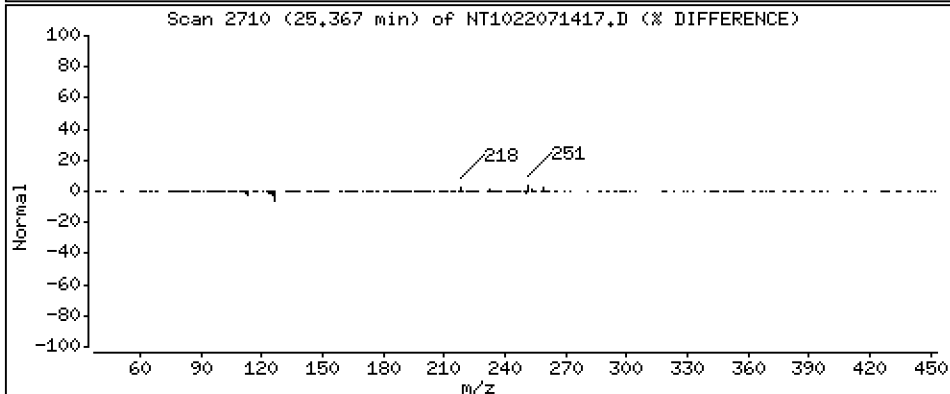
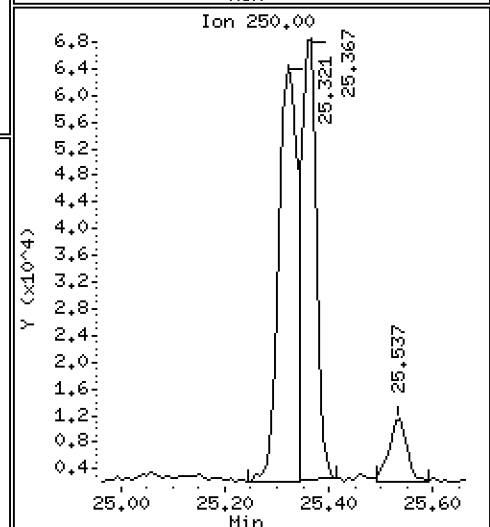
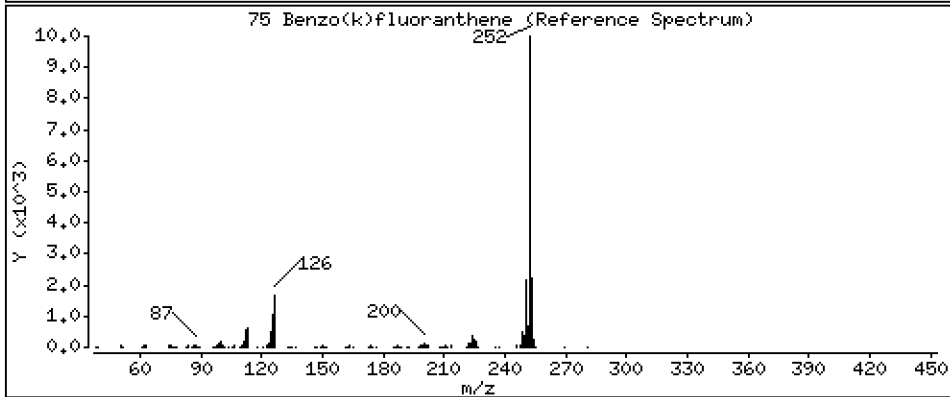
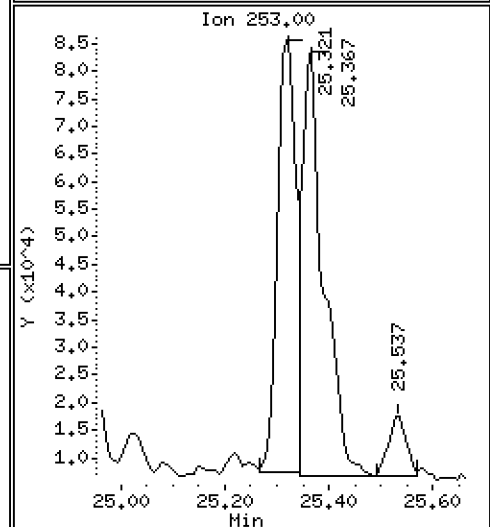
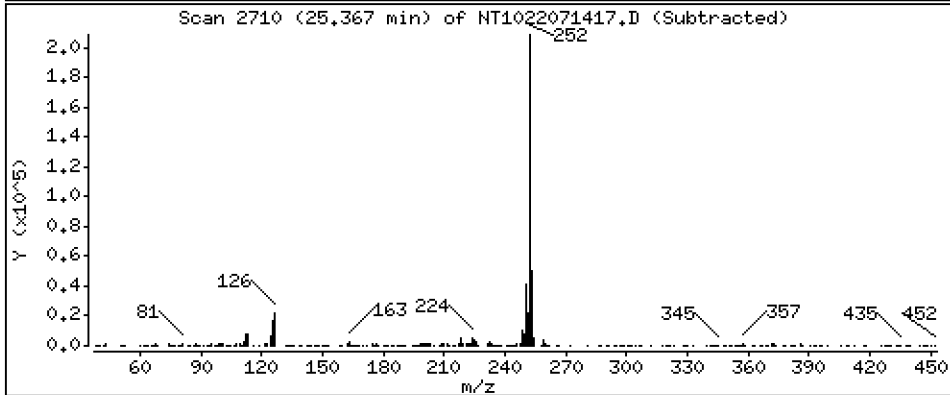
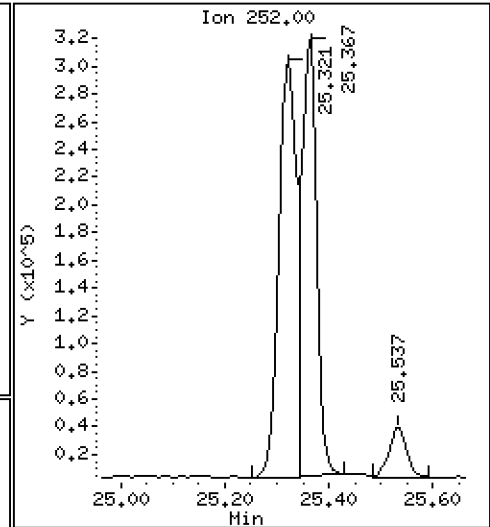
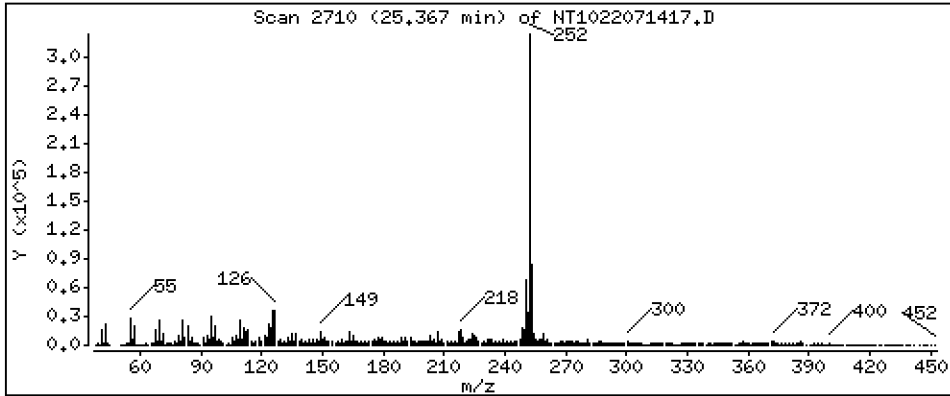
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 7,352 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

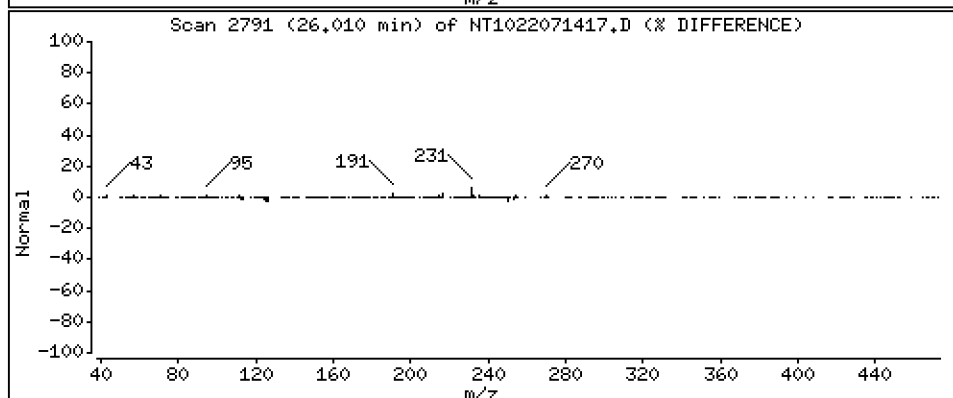
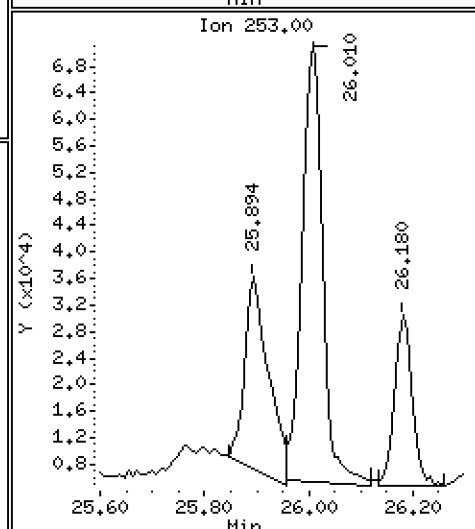
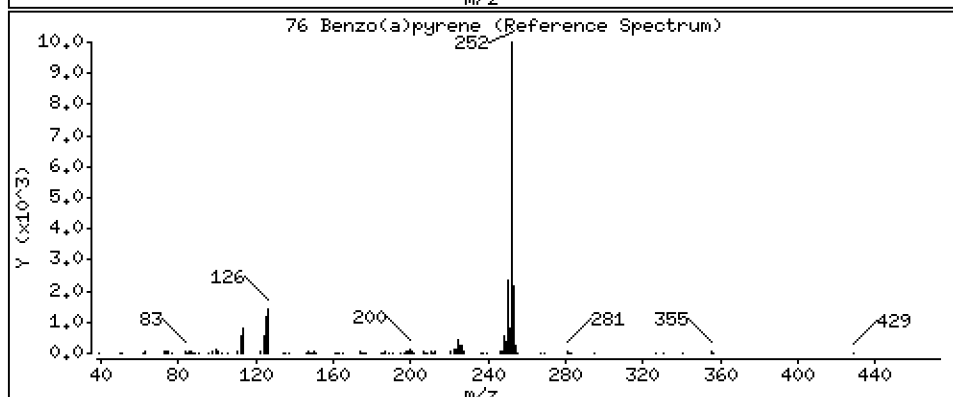
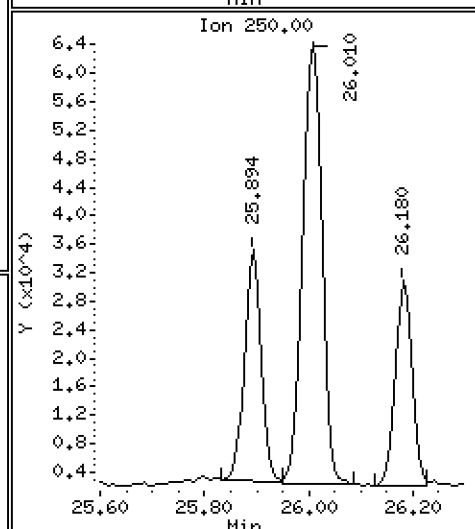
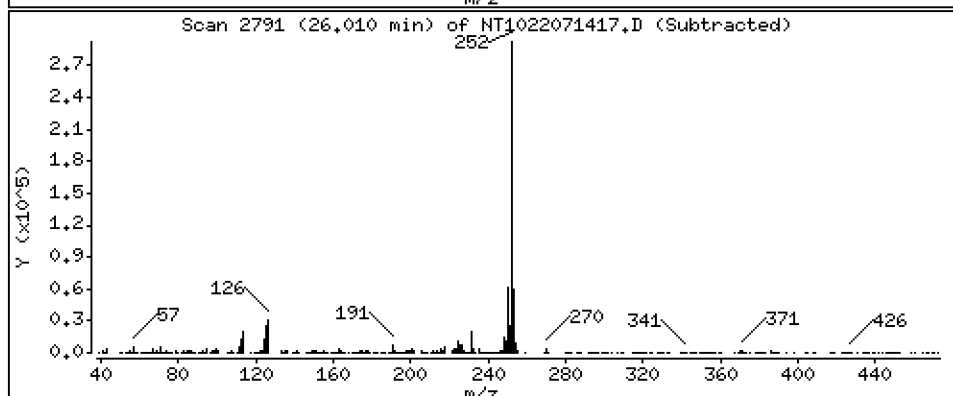
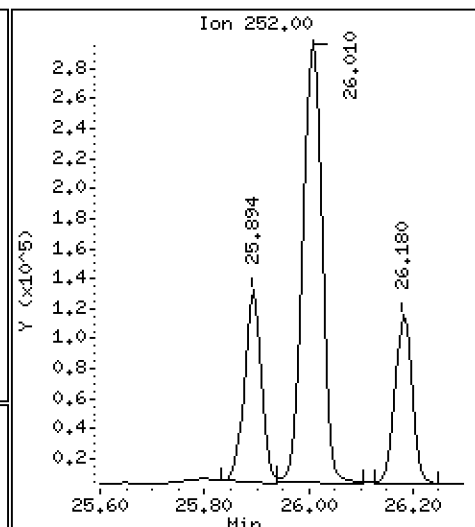
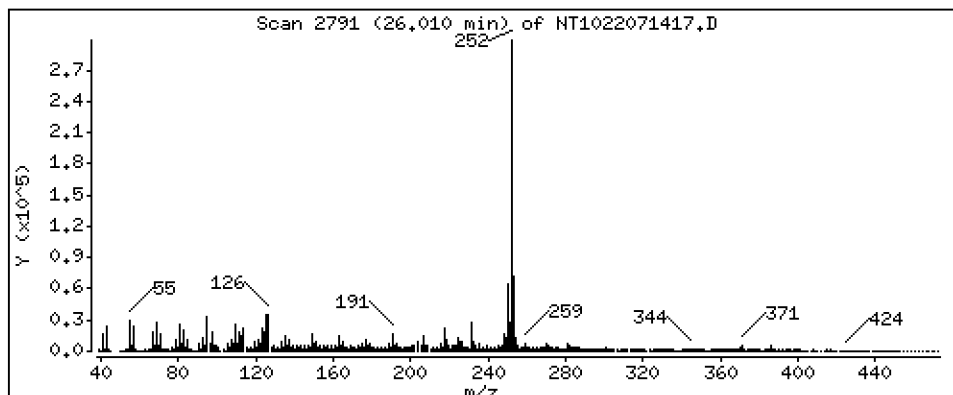
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 9,589 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

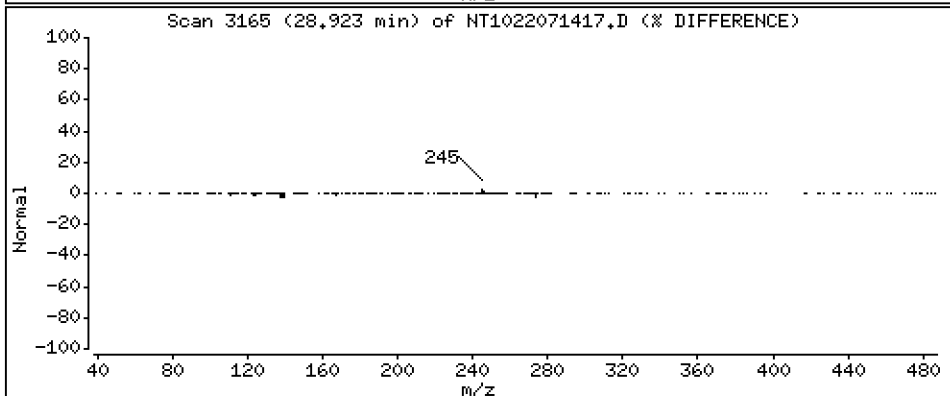
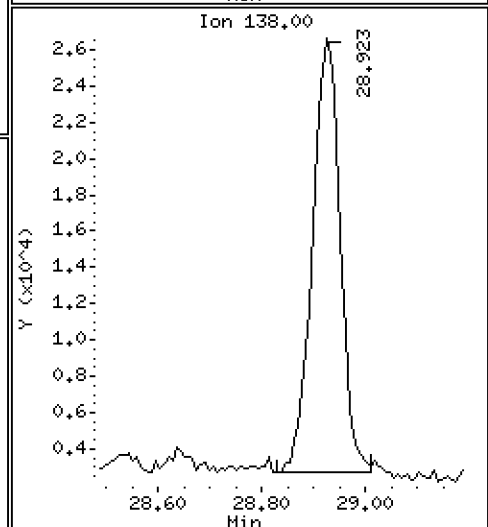
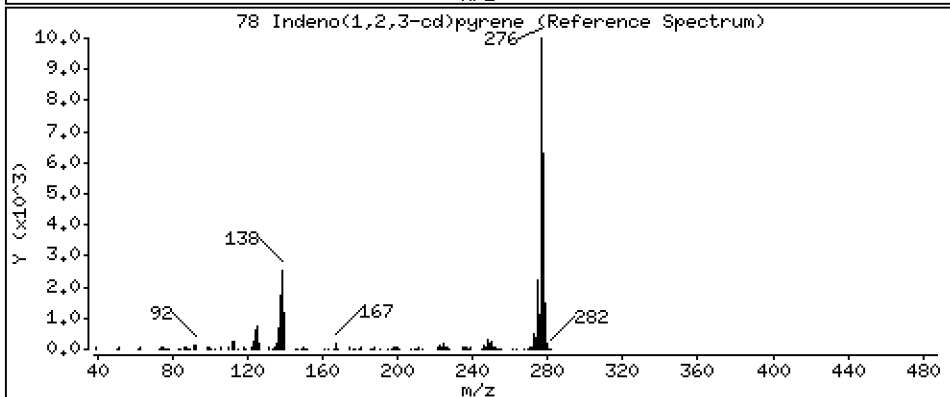
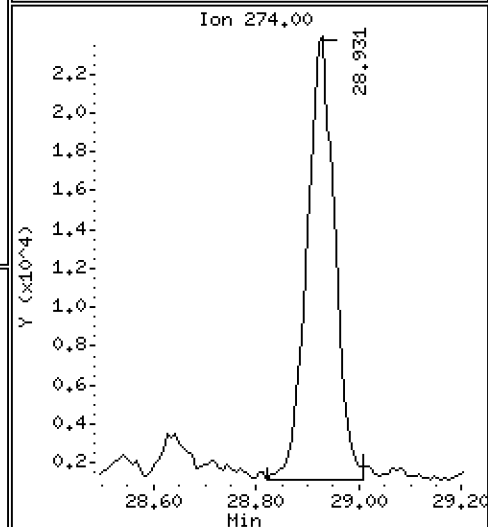
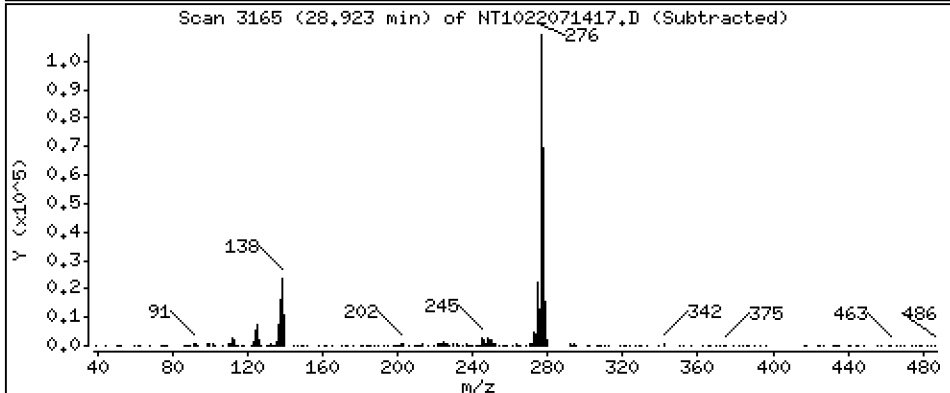
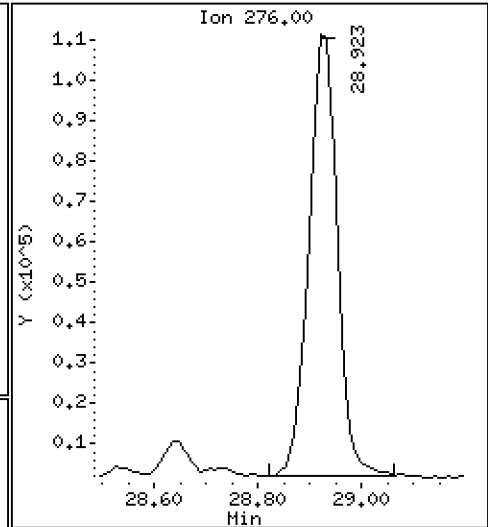
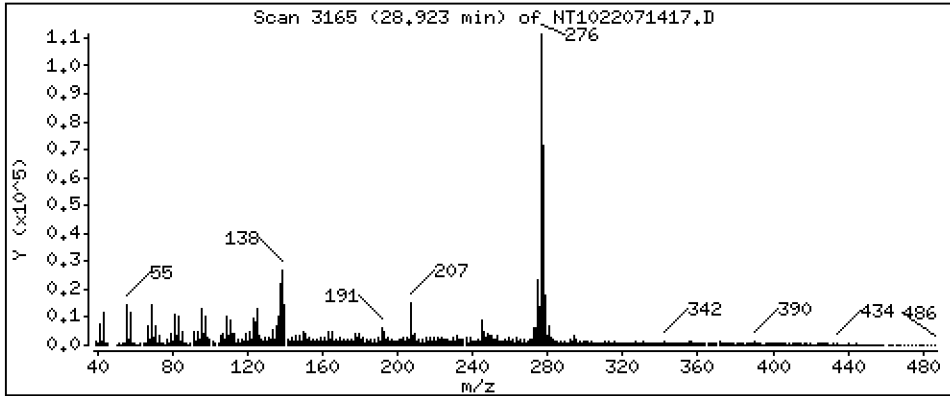
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,950 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

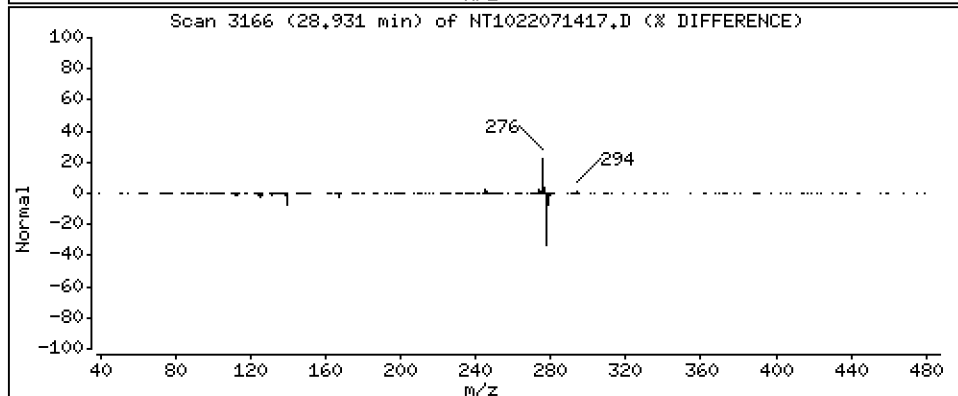
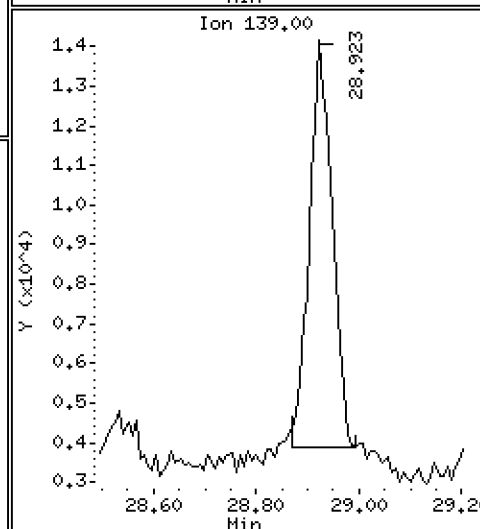
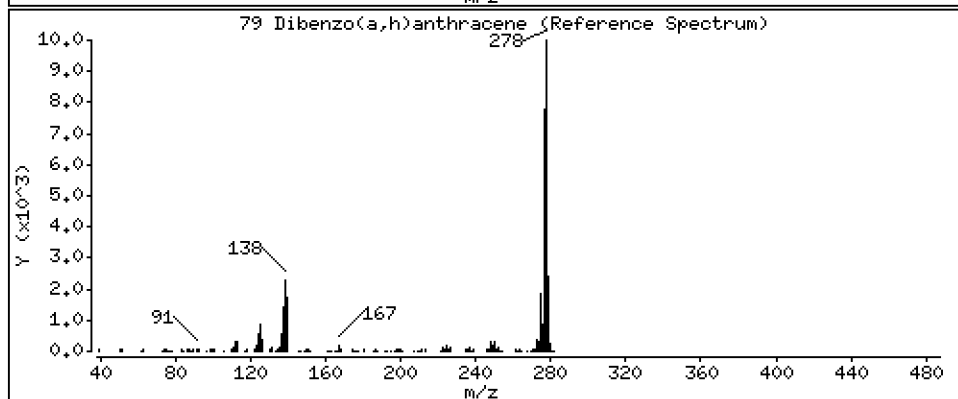
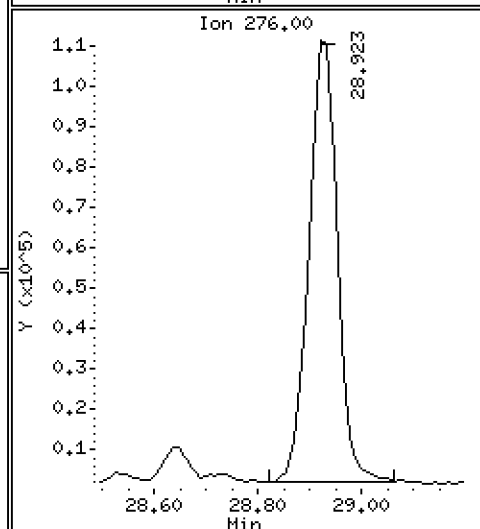
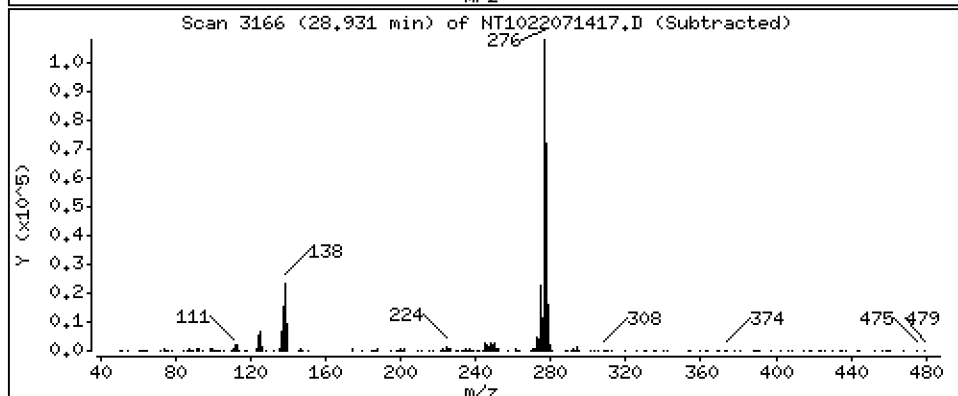
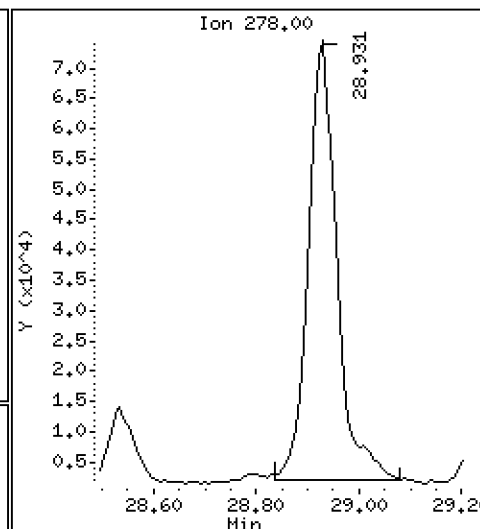
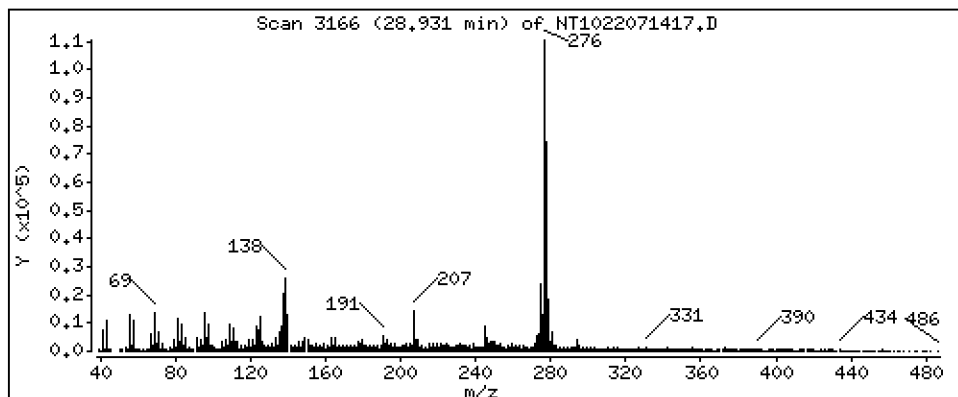
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,354 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

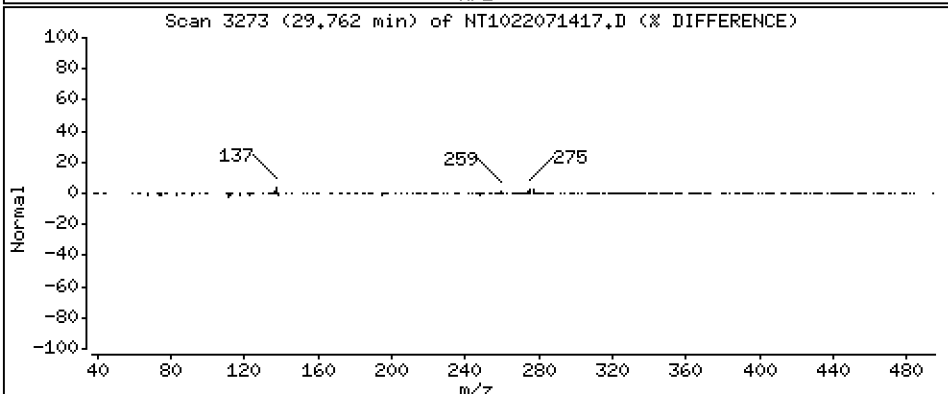
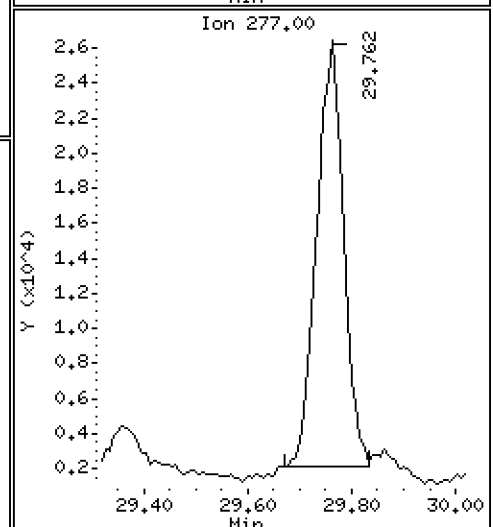
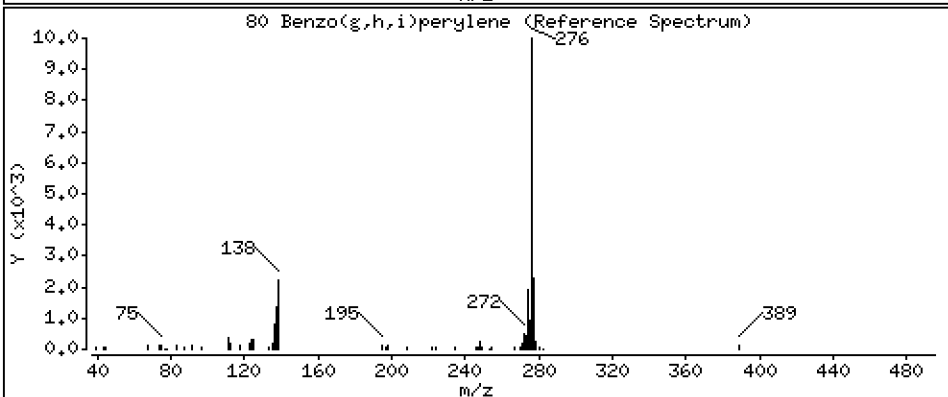
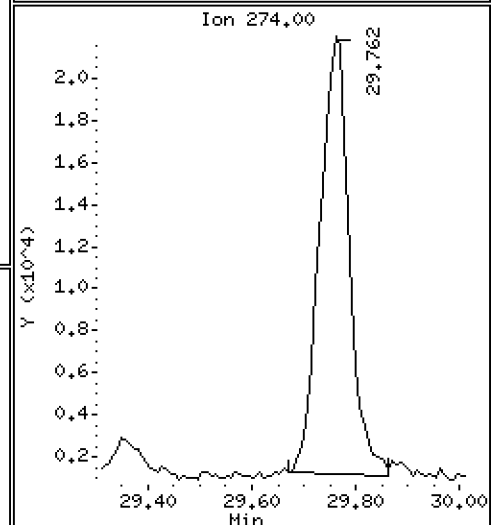
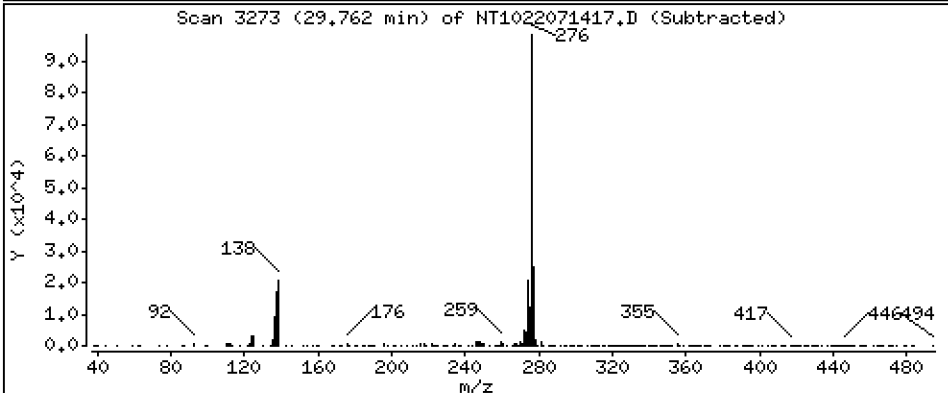
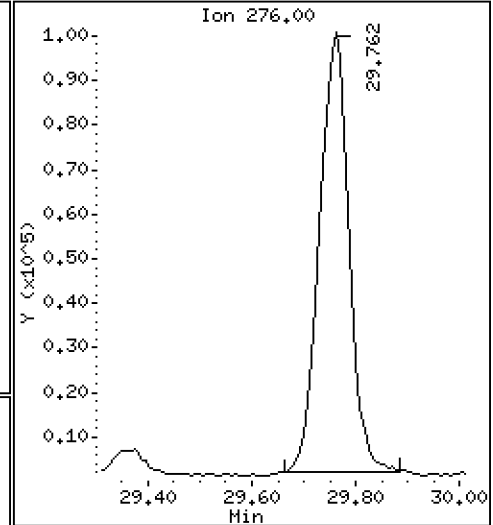
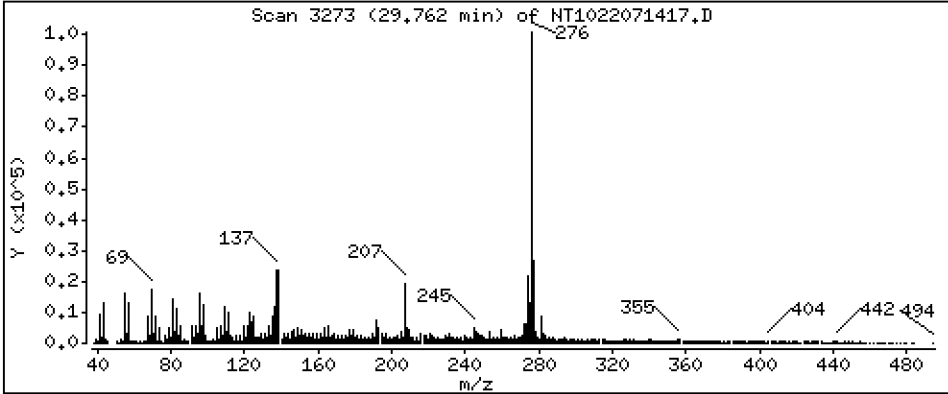
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 5,773 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

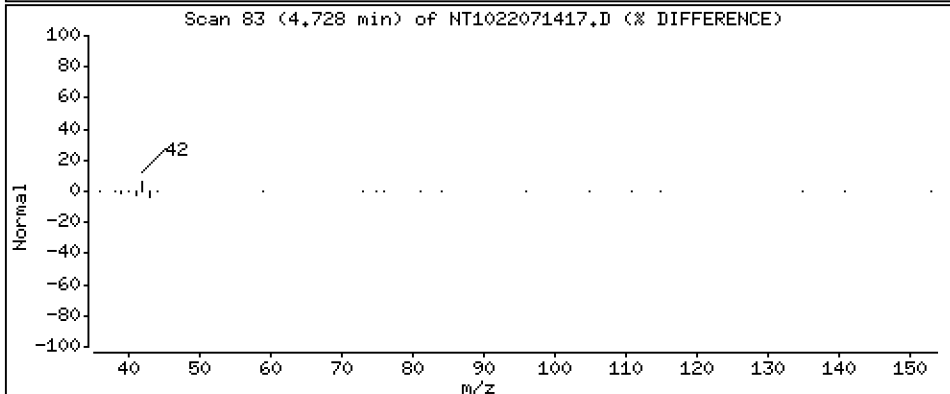
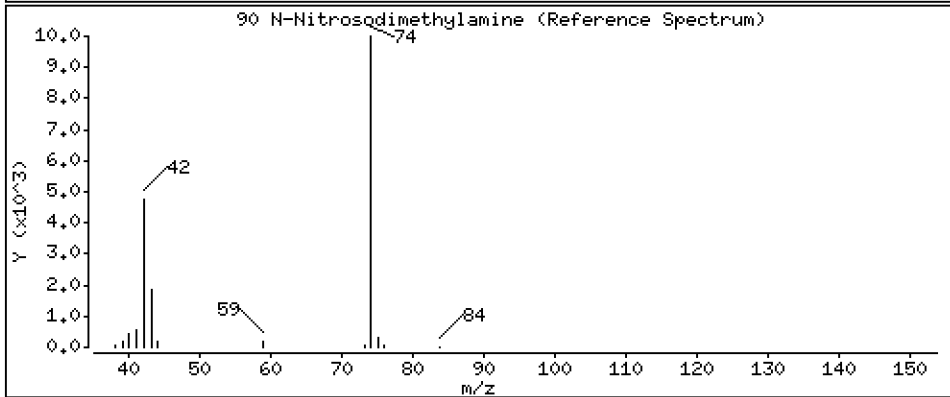
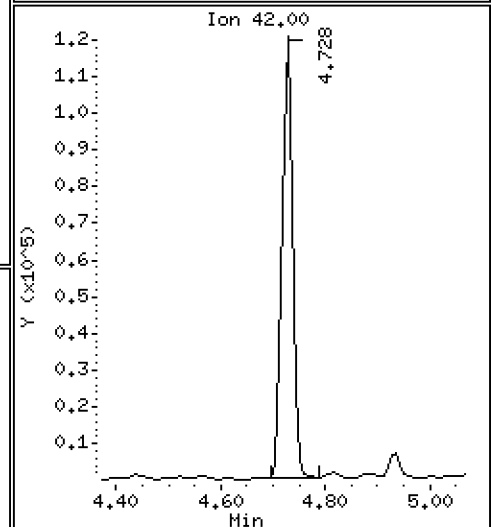
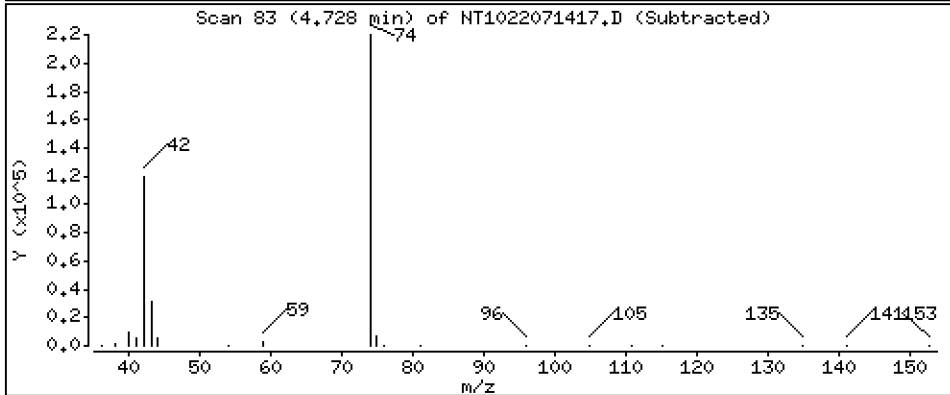
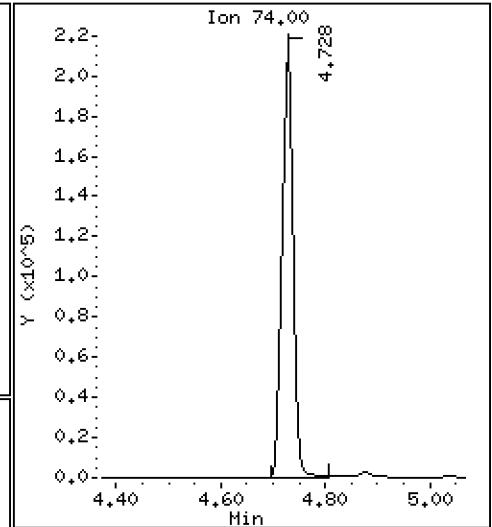
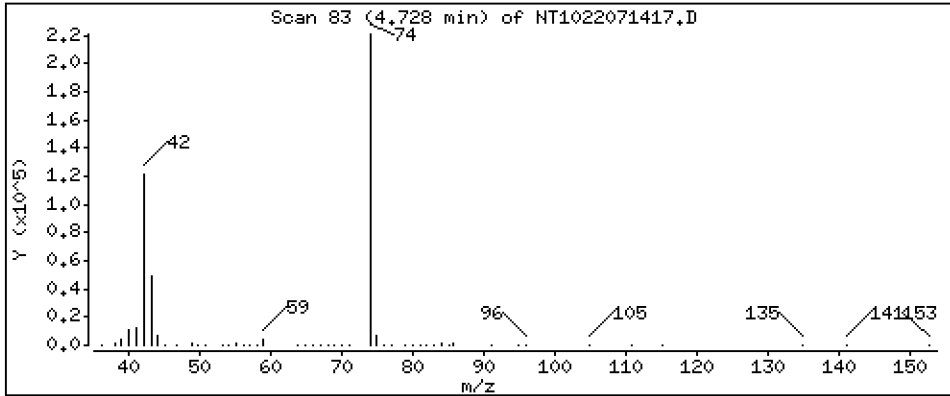
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 9.576 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

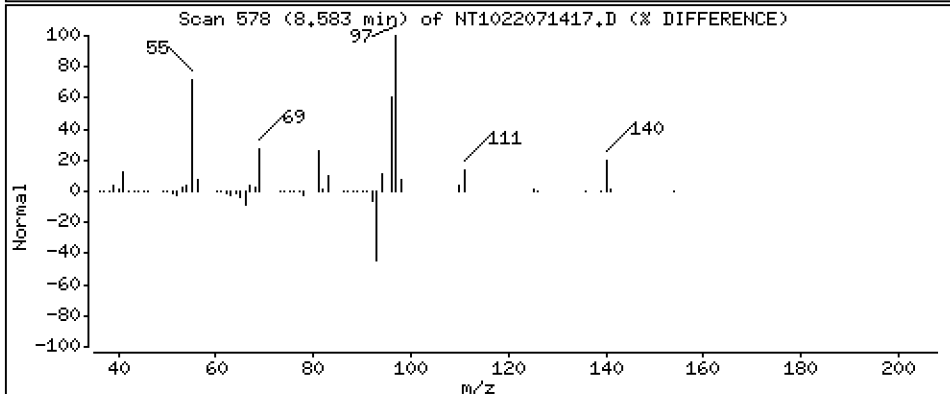
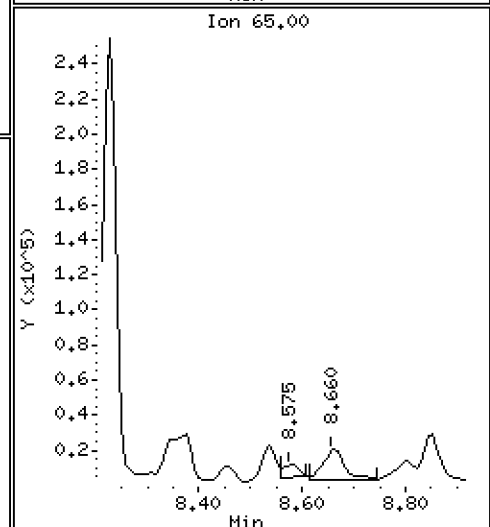
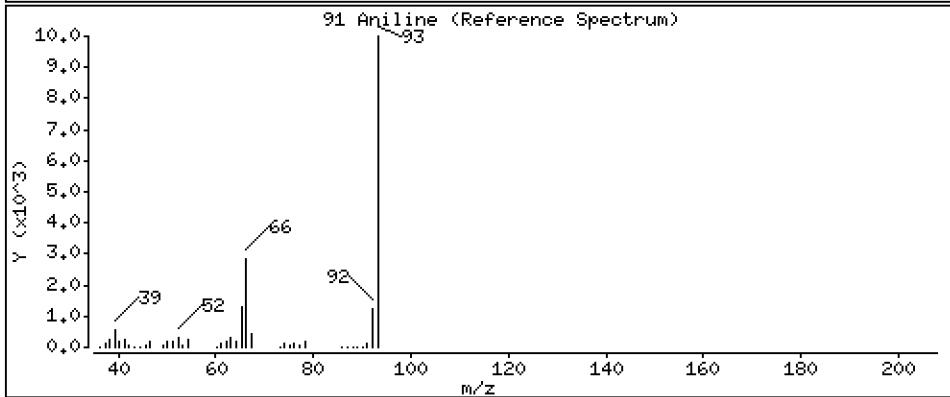
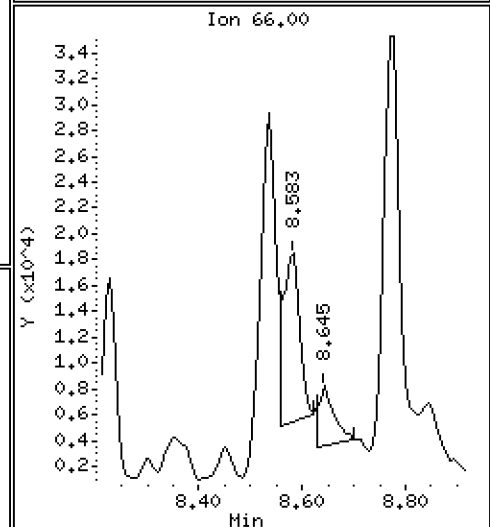
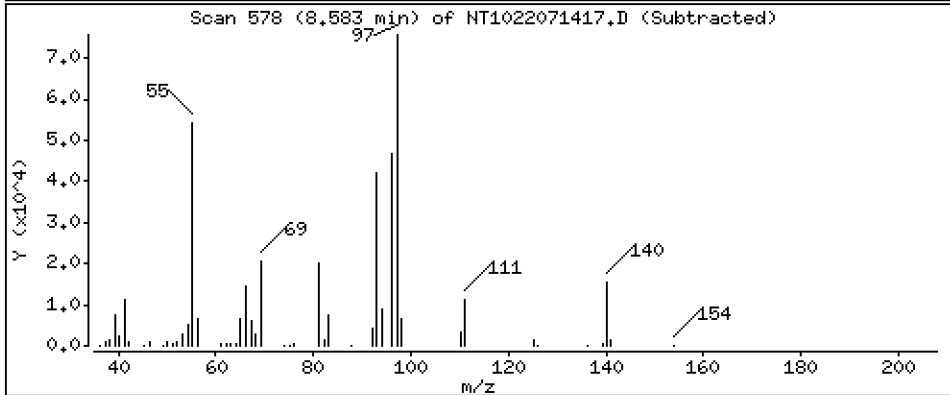
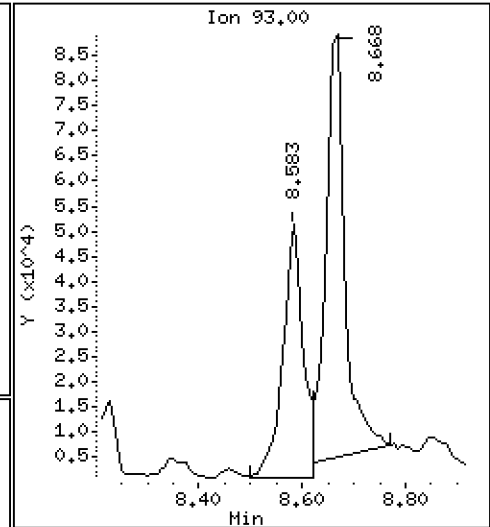
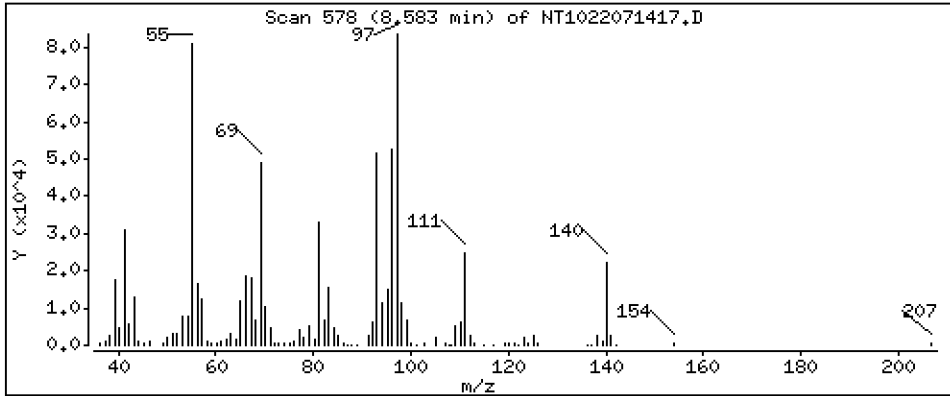
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 2,209 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

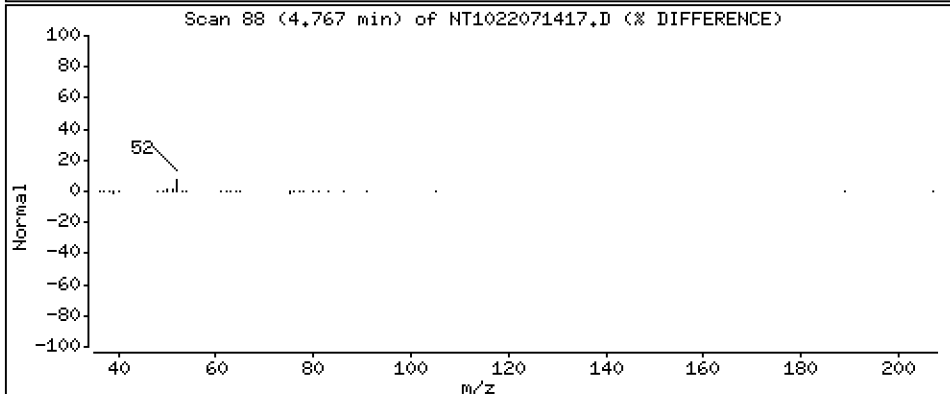
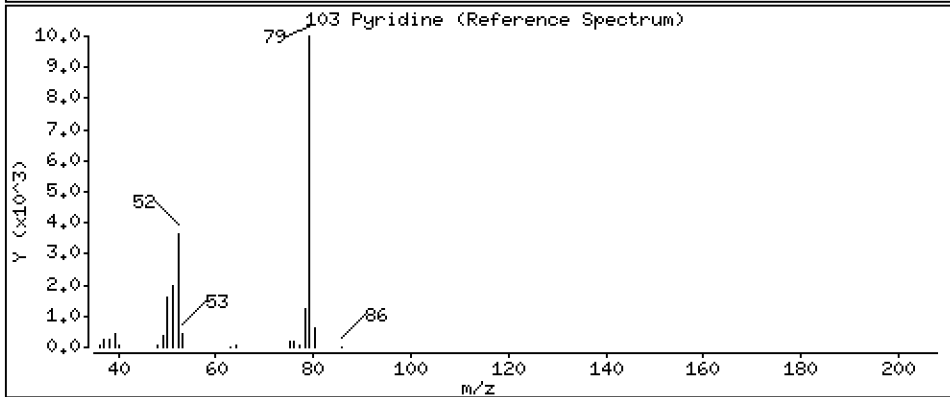
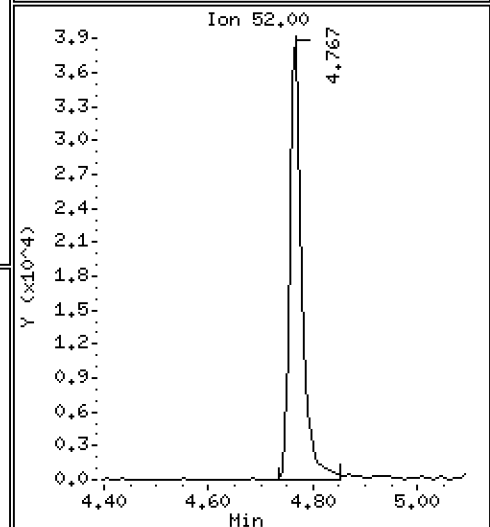
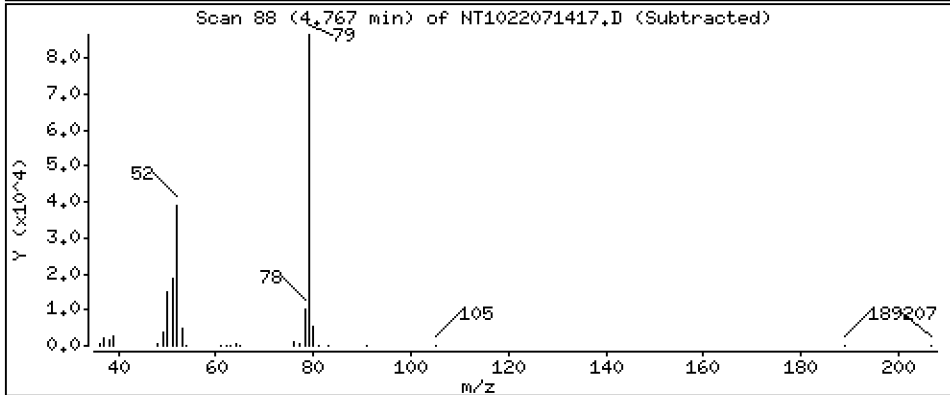
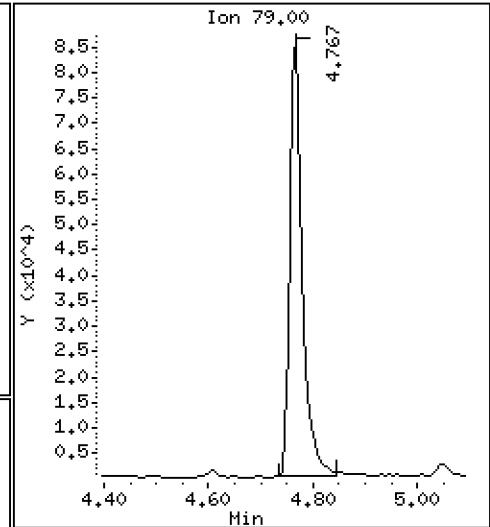
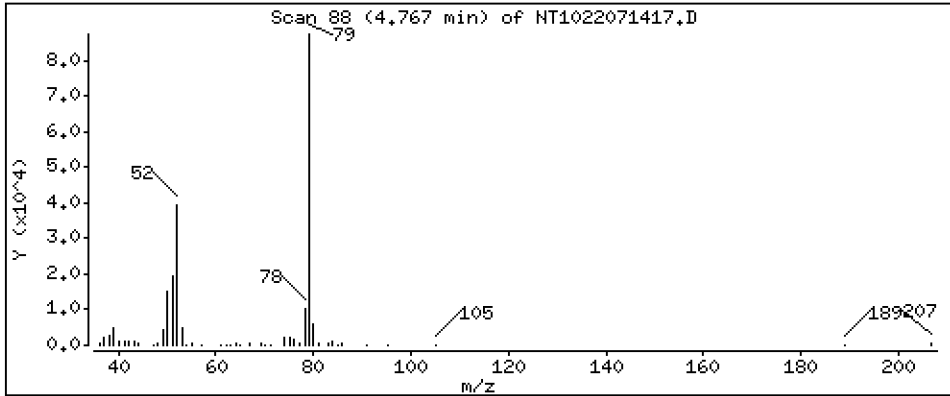
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 1,618 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

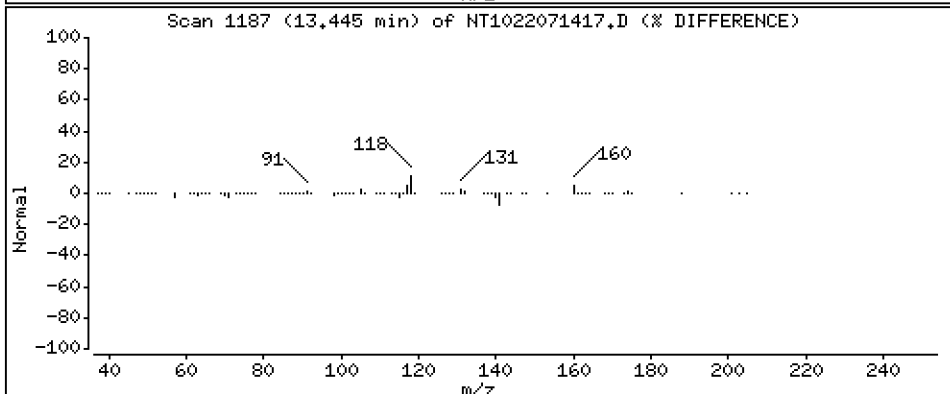
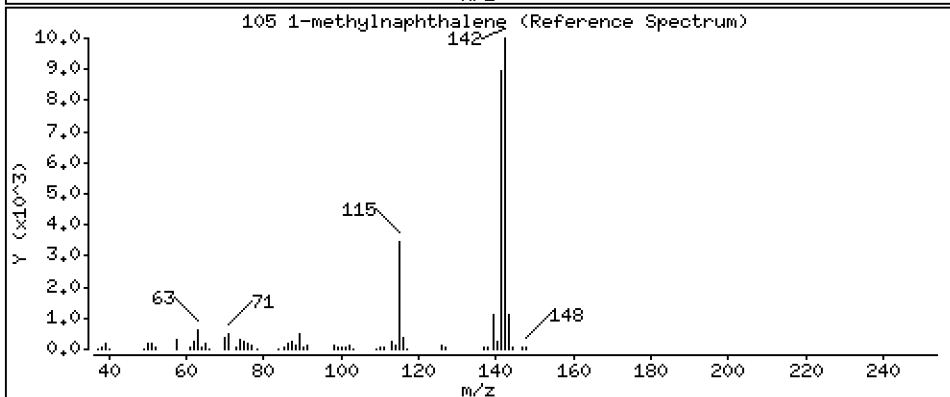
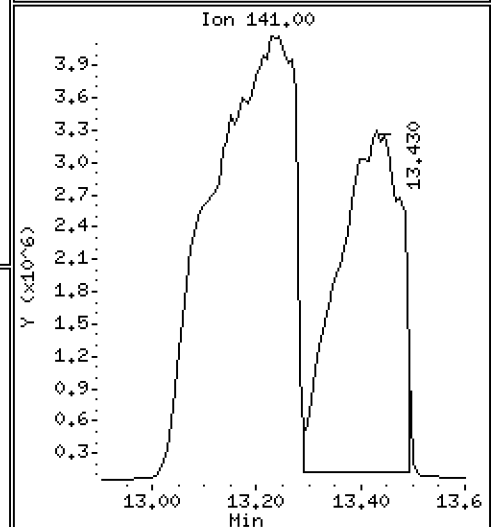
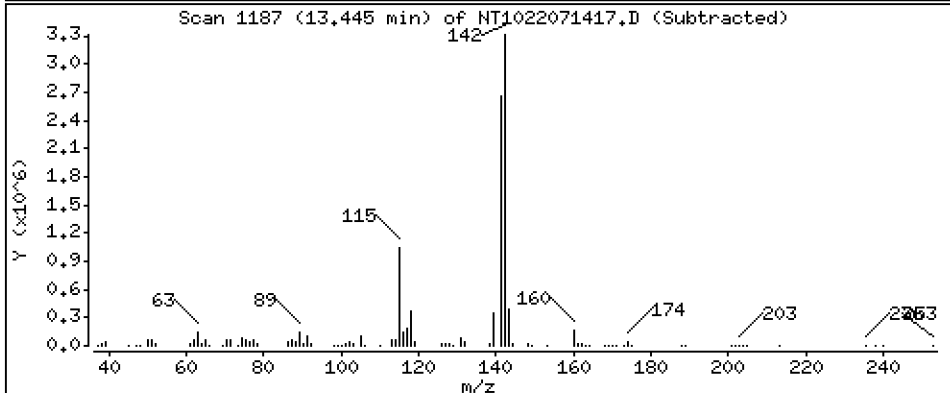
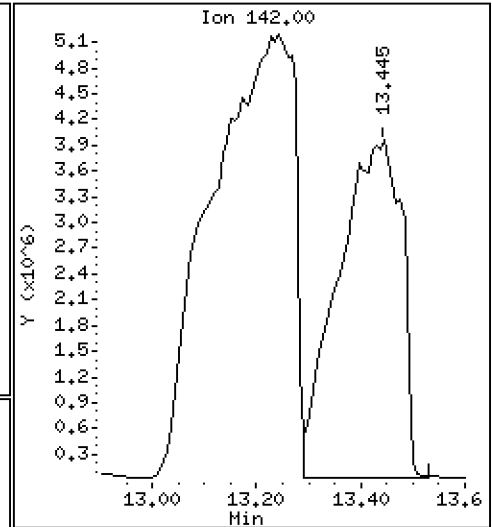
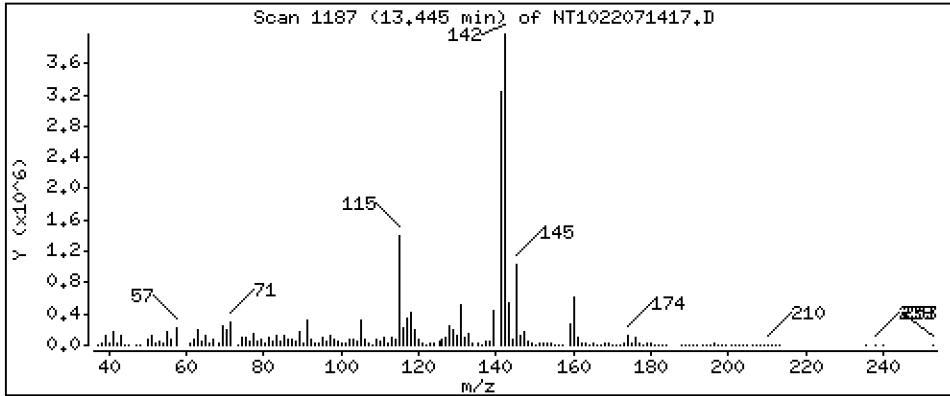
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 350,8 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

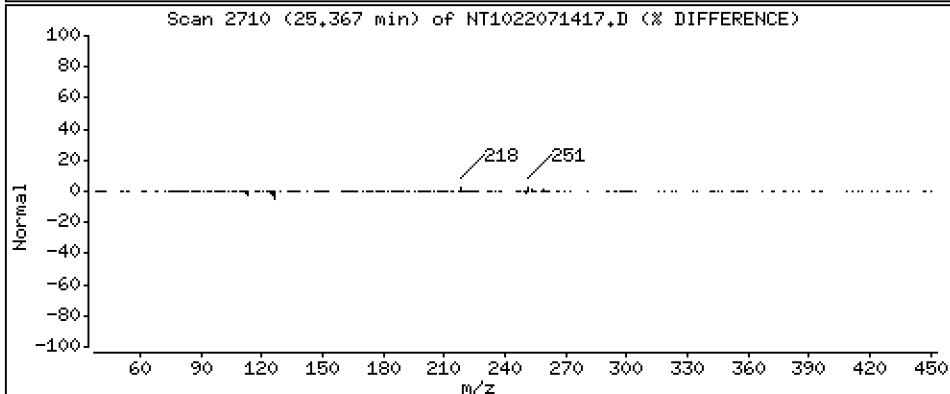
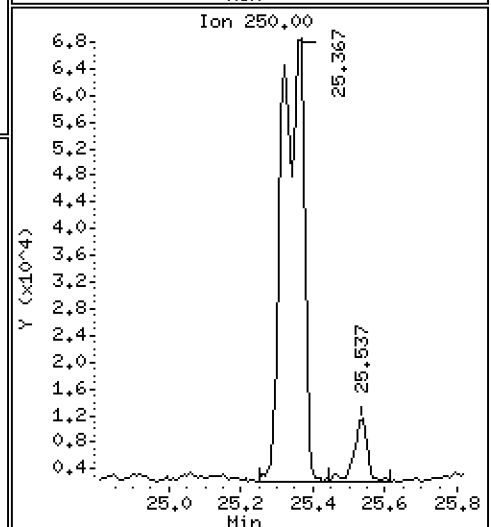
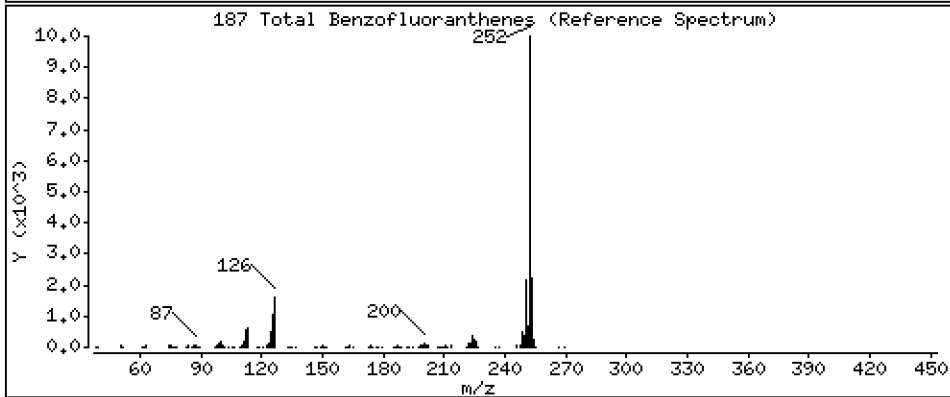
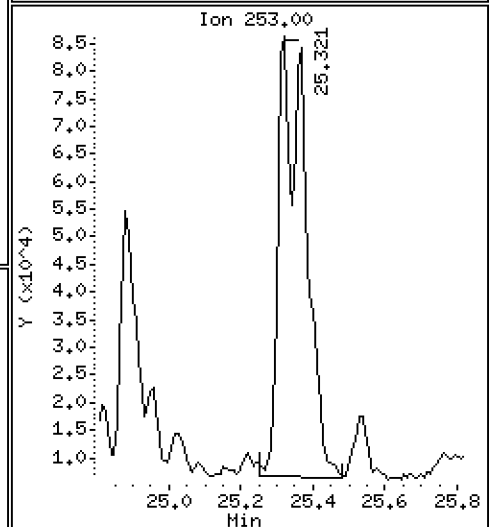
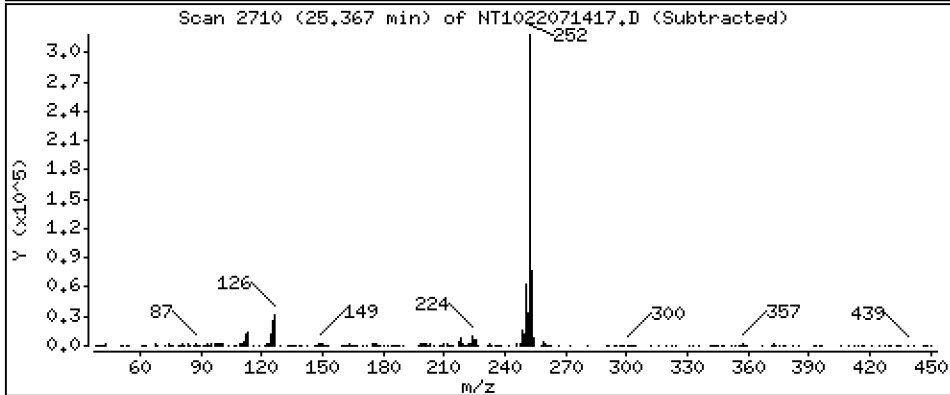
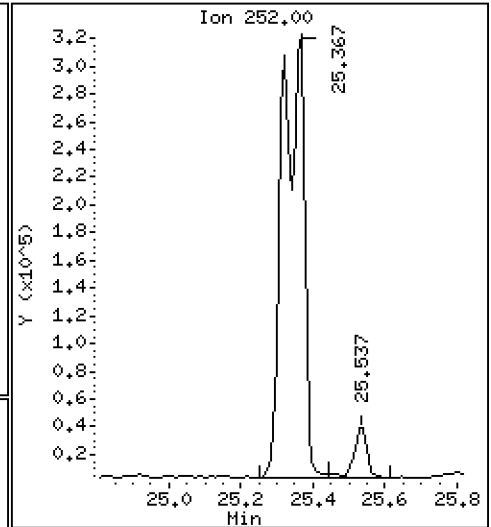
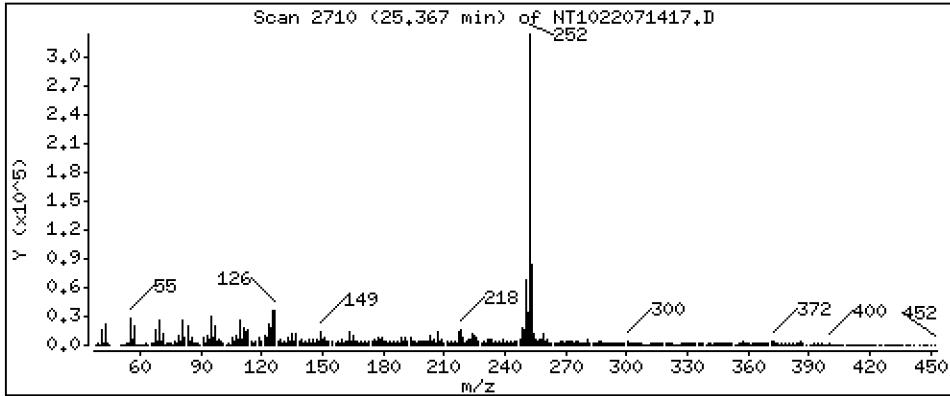
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 14,83 ug/mL



Date : 15-JUL-2022 00:06

Client ID:

Instrument: nt10.i

Sample Info: BKG0069-MSD1

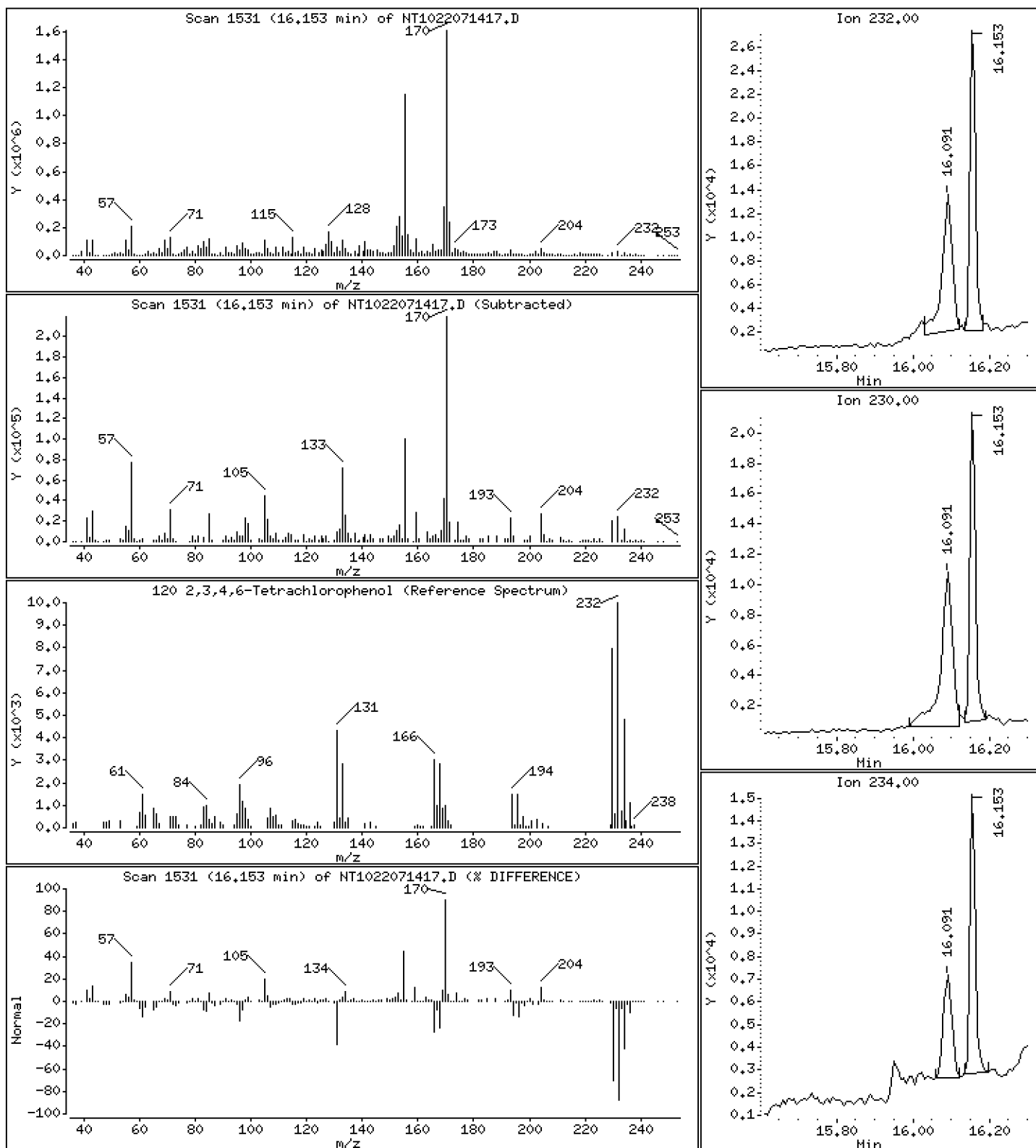
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 1,588 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071417.D
 Lab Smp Id: BKG0069-MSD1
 Inj Date : 15-JUL-2022 00:06
 Operator : VTS
 Smp Info : BKG0069-MSD1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 14-Jul-2022 14:47 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.921	6.906	(0.759)	311456	6.37597	6.376
\$ 2 Phenol-d5	99		8.513	8.490	(0.933)	365570	5.04370	5.044
3 Phenol	94		8.536	8.513	(0.936)	198048	3.13574	3.136
\$ 5 2-Chlorophenol-d4	132		8.776	8.753	(0.962)	405849	8.15390	8.154
4 Bis(2-Chloroethyl)ether	93		8.668	8.645	(0.950)	212121	4.66670	4.667
6 2-Chlorophenol	128		8.799	8.776	(0.964)	214715	4.26429	4.264
7 1,3-Dichlorobenzene	146		9.062	9.039	(0.993)	207424	3.80872	3.809
* 8 1,4-Dichlorobenzene-d4	152		9.124	9.101	(1.000)	133775	4.00000	
9 1,4-Dichlorobenzene	146		9.155	9.132	(1.003)	226198	5.26916	5.269
\$ 10 1,2-Dichlorobenzene-d4	152		9.489	9.466	(1.040)	154084	5.02384	5.024 (M)
12 1,2-Dichlorobenzene	146		9.512	9.489	(1.043)	197659	4.33725	4.337
11 Benzyl alcohol	108		9.403	9.380	(1.031)	110671	4.39875	4.399
14 2,2'-oxybis(1-Chloropropane)	121		9.699	9.668	(1.063)	56711	5.26203	5.262
13 2-Methylphenol	108		9.644	9.613	(1.057)	142354	3.65564	3.656
17 Hexachloroethane	117		10.094	10.079	(1.106)	27813	1.45341	1.453 (M)
16 N-Nitroso-di-n-propylamine	70		9.955	9.924	(1.091)	78946	2.91505	2.915 (M)
15 4-Methylphenol	108		9.931	9.885	(1.088)	149762	3.59869	3.599
\$ 18 Nitrobenzene-d5	82		10.234	10.195	(1.000)	218537	5.44539	5.445
19 Nitrobenzene	77		10.195	10.227	(0.000)	1098903	27.1673	27.17 (M)
20 Isophorone	82		10.630	10.677	(1.000)	49088	0.83890	0.8389
21 2-Nitrophenol	139		10.893	10.859	(0.000)	87310	3.41733	3.417 (M)
22 2,4-Dimethylphenol	107		10.970	10.927	(1.000)	398980	12.8550	12.85
23 Bis(2-Chloroethoxy)methane	93		11.165	11.106	(1.000)	176259	5.01366	5.014 (M)
24 Benzoic acid	105		11.020	11.165	(1.000)	297520	17.9984	18.00 (H)
25 2,4-Dichlorophenol	162		11.394	11.335	(1.000)	385435	12.2190	12.22
26 1,2,4-Trichlorobenzene	180		11.542	11.504	(0.000)	120214	3.55048	3.550 (M)
* 27 Naphthalene-d8	136		11.627	11.589	(1.000)	377163	4.00000	(M)
28 Naphthalene	128		11.673	11.627	(1.004)	9077786	94.0432	94.04 (M)
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		12.029	11.990	(1.000)	72898	4.51309	4.513
31 4-Chloro-3-methylphenol	107		12.849	12.749	(1.000)	137164	3.65878	3.659
32 2-Methylnaphthalene	142		13.244	13.027	(1.139)	56351087	587.389	587.4 (M)
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.832	13.662	(0.900)	342776	16.8405	16.84 (M)
35 2,4,5-Trichlorophenol	196	14.126	13.755	(0.919)	235877	9.73512	9.735 (M)
§ 36 2-Fluorobiphenyl	172	13.948	13.809	(0.907)	335588	4.14081	4.141
37 2-Chloronaphthalene	162	14.343	14.026	(0.933)	685573	9.59587	9.596 (M)
38 2-Nitroaniline	65	14.397	14.289	(0.937)	426085	22.2955	22.30 (M)
39 Dimethylphthalate	163	14.900	14.714	(0.969)	90768	1.44524	1.445 (M)
40 Acenaphthylene	152	15.024	14.900	(0.977)	266137	2.54217	2.542
41 2,6-Dinitrotoluene	165	15.047	14.862	(0.979)	143820	9.85985	9.860
* 42 Acenaphthene-d10	164	15.372	15.210	(1.000)	179092	4.00000	
43 3-Nitroaniline	138	15.294	15.156	(0.995)	169246	9.85632	9.856 (M)
44 Acenaphthene	153	15.449	15.279	(1.005)	2875641	55.2108	55.21
45 2,4-Dinitrophenol	184	Compound Not Detected.					
46 Dibenzofuran	168	15.789	15.612	(1.027)	981152	11.8533	11.85
47 4-Nitrophenol	109	Compound Not Detected.					
48 2,4-Dinitrotoluene	165	15.936	15.681	(1.037)	386222	19.8109	19.81
50 Diethylphthalate	149	16.323	16.176	(1.062)	102217	1.89726	1.897
49 Fluorene	166	16.492	16.323	(1.073)	3042446	30.7607	30.76
51 4-Chlorophenyl-phenylether	204	16.462	16.323	(1.071)	82895	1.90850	1.909
52 4-Nitroaniline	138	16.585	16.439	(1.079)	82867	4.81826	4.818
53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
54 N-Nitrosodiphenylamine	169	16.662	16.570	(0.906)	1287533	45.1851	45.19
§ 55 2,4,6-Tribromophenol	330	17.032	16.870	(1.108)	35599	4.38262	4.383
56 4-Bromophenyl-phenylether	248	17.441	17.318	(0.949)	39961	3.02686	3.027
57 Hexachlorobenzene	284	17.836	17.642	(0.970)	57229	4.73056	4.731
58 Pentachlorophenol	266	18.161	18.022	(0.988)	88761	28.0121	28.01
* 59 Phenanthrene-d10	188	18.385	18.269	(1.000)	181216	4.00000	
60 Phenanthrene	178	18.470	18.316	(1.005)	9453621	198.568	198.6
61 Anthracene	178	18.540	18.416	(1.008)	930301	18.3365	18.34
62 Carbazole	167	18.857	18.757	(1.026)	250278	5.34718	5.347 (M)
63 Di-n-butylphthalate	149	19.615	19.546	(1.067)	195470	2.73684	2.737
64 Fluoranthene	202	20.822	20.722	(0.890)	1658070	11.1098	11.11
65 Pyrene	202	21.240	21.147	(0.908)	1966310	14.3110	14.31
§ 66 Terphenyl-d14	244	21.488	21.434	(0.918)	273398	4.05547	4.055
67 Butylbenzylphthalate	149	22.394	22.363	(0.957)	97664	2.50254	2.503
68 Benzo(a)anthracene	228	23.377	23.331	(0.999)	773104	9.44430	9.444
* 69 Chrysene-d12	240	23.400	23.362	(1.000)	193181	4.00000	
70 3,3'-Dichlorobenzidine	252	23.323	23.292	(0.997)	131493	4.92951	4.930
71 Chrysene	228	23.454	23.408	(1.002)	791242	12.4425	12.44
72 bis(2-Ethylhexyl)phthalate	149	23.431	23.400	(0.959)	143638	5.36475	5.365
* 134 Di-n-octylphthalate-d4	153	24.438	24.407	(1.000)	242233	4.00000	
73 Di-n-octylphthalate	149	24.453	24.422	(1.001)	283636	5.15167	5.152
74 Benzo(b)fluoranthene	252	25.320	25.266	(0.969)	732894	7.64412	7.644
75 Benzo(k)fluoranthene	252	25.367	25.313	(0.971)	677822	7.35216	7.352
76 Benzo(a)pyrene	252	26.009	25.948	(0.996)	752436	9.58884	9.589
* 77 Perylene-d12	264	26.125	26.064	(1.000)	211703	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.923	28.845	(1.107)	414742	4.95017	4.950
79 Dibenzo(a,h)anthracene	278	28.930	28.853	(1.107)	279274	4.35419	4.354
80 Benzo(g,h,i)perylene	276	29.762	29.661	(1.139)	386607	5.77252	5.773
90 N-Nitrosodimethylamine	74	4.728	4.720	(0.518)	306065	9.57630	9.576
91 Aniline	93	8.583	8.560	(0.941)	139519	2.20871	2.209
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	4.766	4.743	(0.522)	146621	1.61833	1.618
105 1-methylnaphthalene	142	13.445	13.252	(1.156)	33068160	350.849	350.8 (M)
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252		25.367	25.313	(0.971)	1325392	14.8263	14.83
120 2,3,4,6-Tetrachlorophenol	232		16.152	15.959	(1.051)	25025	1.58823	1.588

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071417.D Calibration Time: 14:12
 Lab Smp Id: BKG0069-MSD1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	133775	-31.69
27 Naphthalene-d8	626038	313019	1252076	377163	-39.75
42 Acenaphthene-d10	366612	183306	733224	179092	-51.15 <-
59 Phenanthrene-d10	635137	317569	1270274	181216	-71.47 <-
69 Chrysene-d12	270778	135389	541556	193181	-28.66
134 Di-n-octylphthala	507031	253516	1014062	242233	-52.23 <-
77 Perylene-d12	170107	85054	340214	211703	24.45

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.12	0.25
27 Naphthalene-d8	11.59	11.09	12.09	11.63	0.33
42 Acenaphthene-d10	15.21	14.71	15.71	15.37	1.07
59 Phenanthrene-d10	18.27	17.77	18.77	18.39	0.63
69 Chrysene-d12	23.36	22.86	23.86	23.40	0.16
134 Di-n-octylphthala	24.41	23.91	24.91	24.44	0.13
77 Perylene-d12	26.06	25.56	26.56	26.13	0.24

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

REVIEW SUMMARY FOR FILE - NT1022071417.D

Lab ID: BKG0069-MSD1
nt10.i, ABN.m, 15-JUL-2022 00:06

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.000	0.882	-0.8825	Nitrobenzene
1.000	0.921	0.0787	Isophorone
0.000	0.937	-0.9371	2-Nitrophenol
1.000	0.943	0.0571	2,4-Dimethylphenol
1.000	0.958	0.0417	Bis(2-Chloroethoxy)methane
1.000	0.978	0.0219	2,4-Dichlorophenol
0.000	0.993	-0.9927	1,2,4-Trichlorobenzene
1.000	0.963	0.0366	Benzoic acid
1.000	1.035	-0.0347	Hexachlorobutadiene
1.000	1.100	-0.1001	4-Chloro-3-methylphenol
1.139	1.124	0.0149	2-Methylnaphthalene
0.919	0.904	0.0146	2,4,5-Trichlorophenol
0.933	0.922	0.0109	2-Chloronaphthalene
1.037	1.031	0.0057	2,4-Dinitrotoluene
1.156	1.144	0.0129	1-methylnaphthalene
1.000	0.880	0.1202	Nitrobenzene-d5

RRT check based on Ccal File: NT1022071402.D

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

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

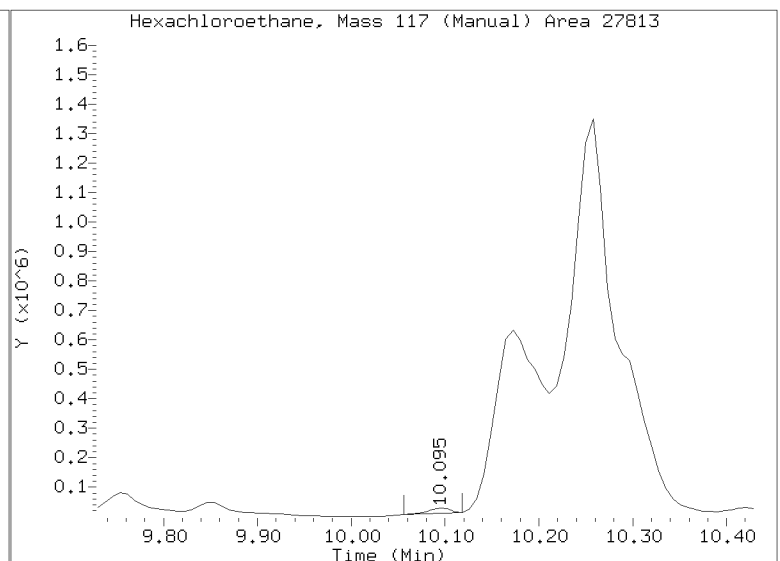
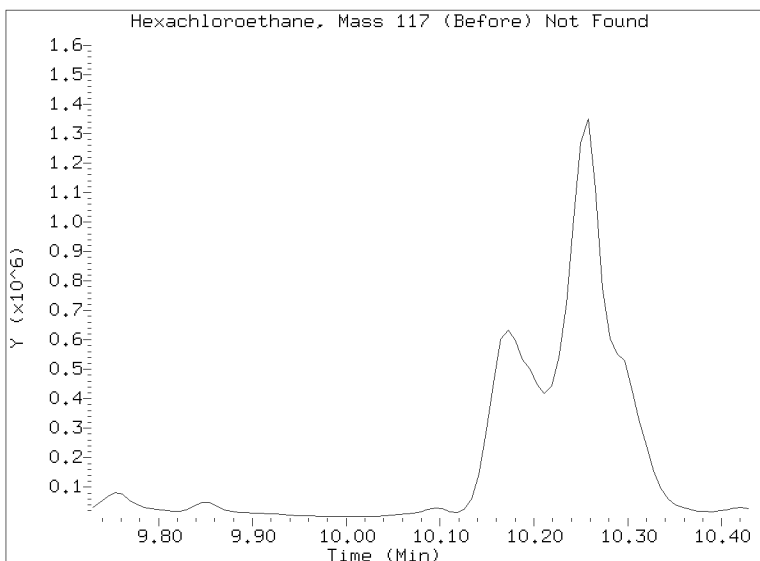
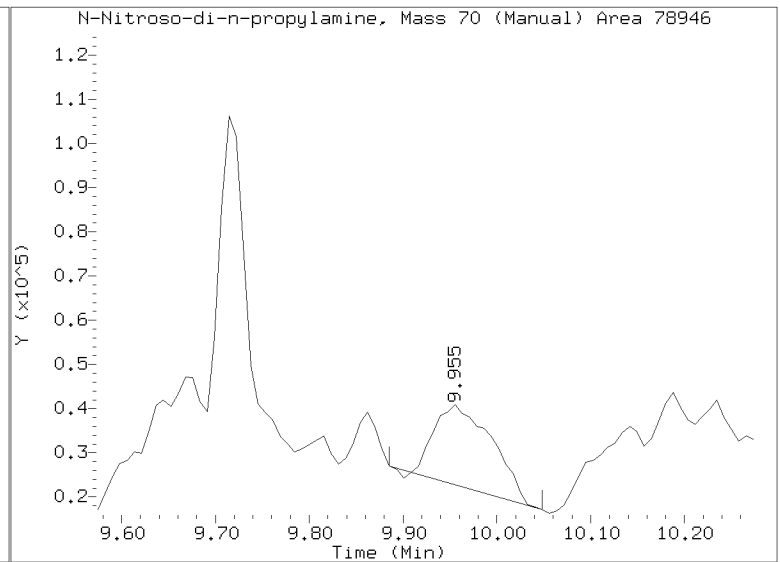
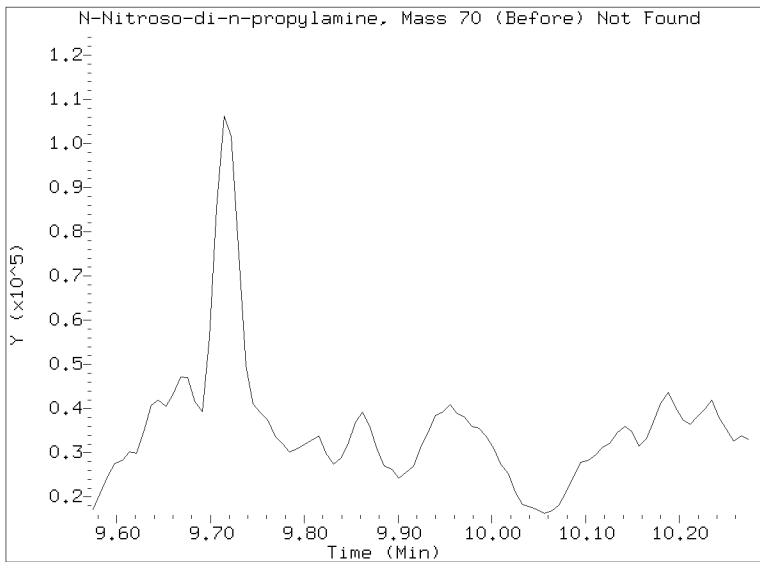
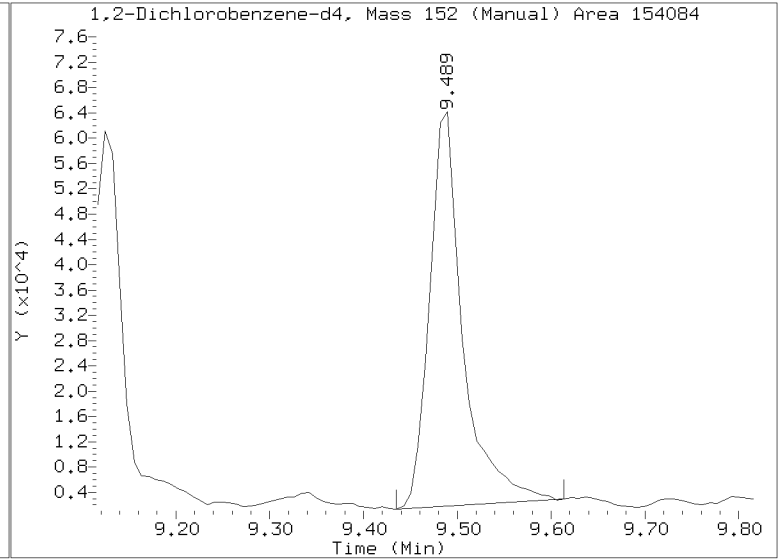
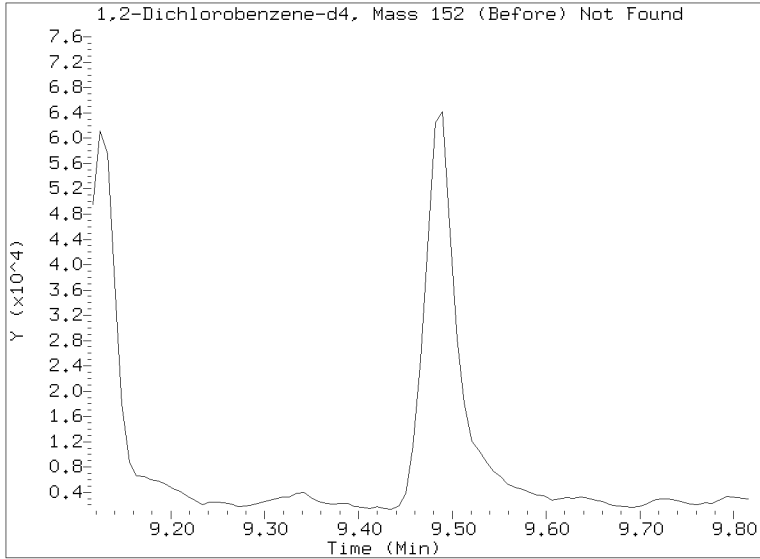
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071417.D

Injection Date: 15-JUL-2022 00:06

Lab ID: BKG0069-MSD1 Client ID:

Report Date: 07/19/2022 12:56



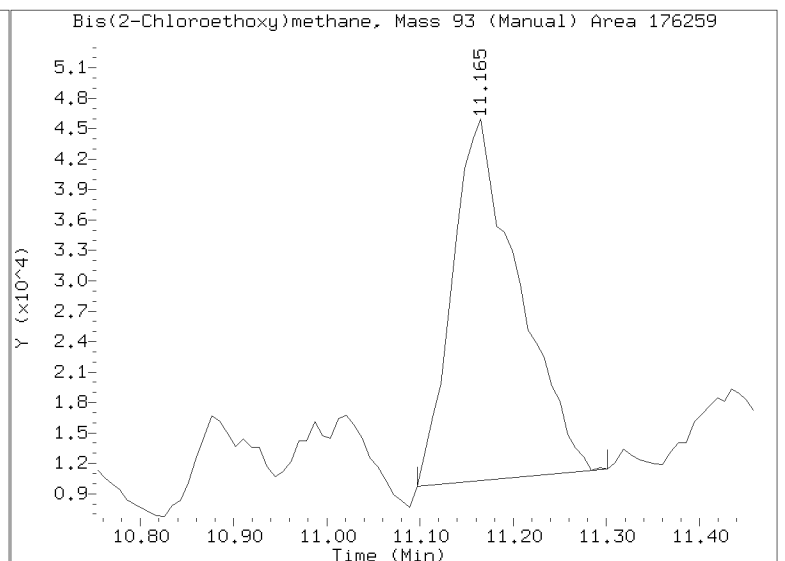
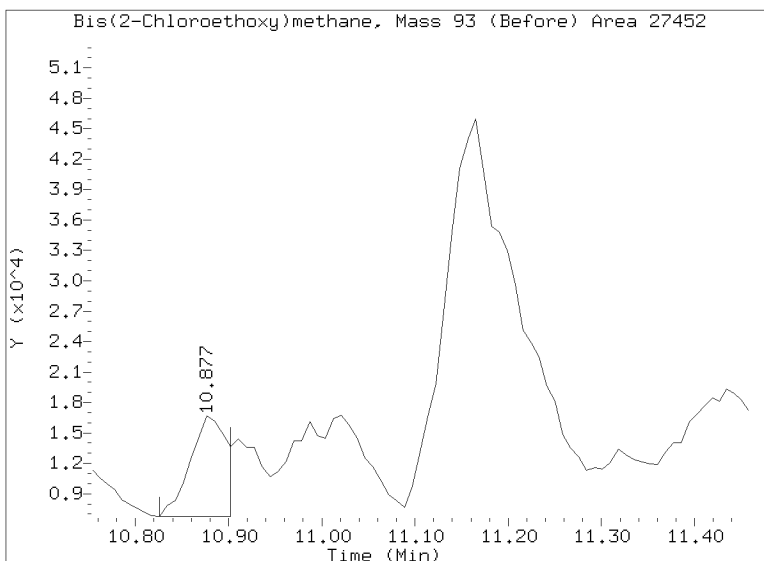
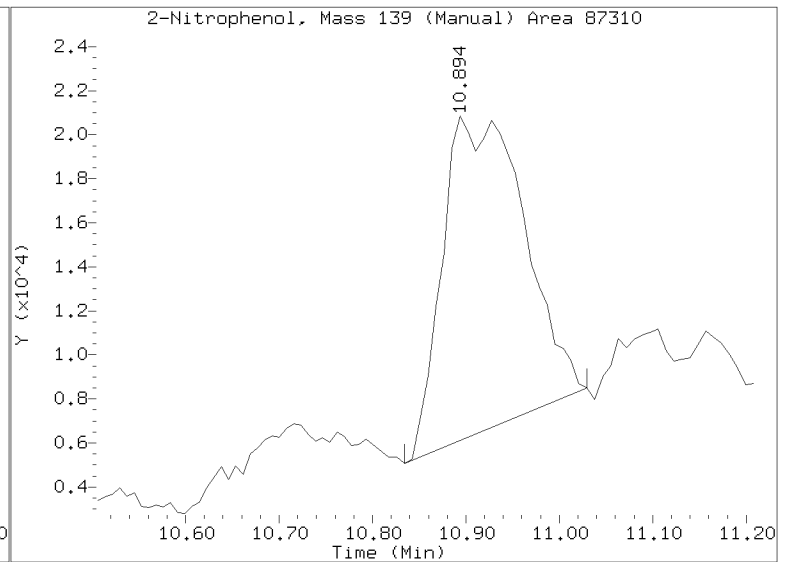
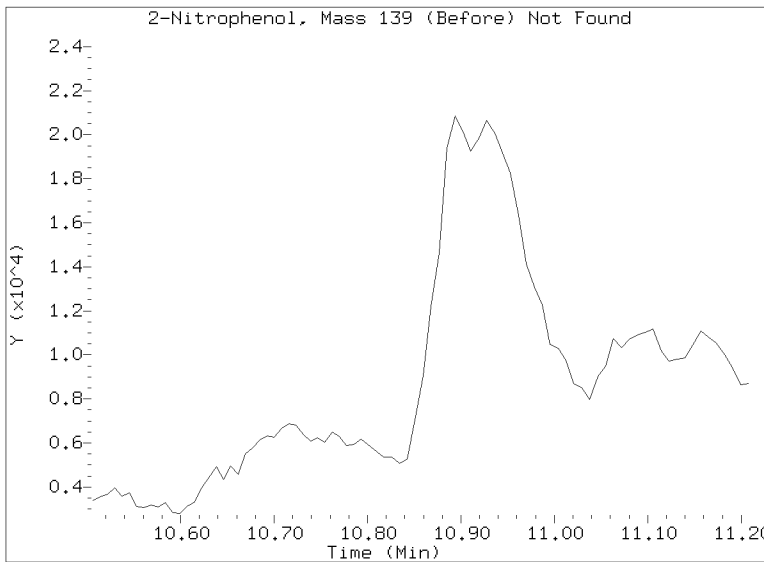
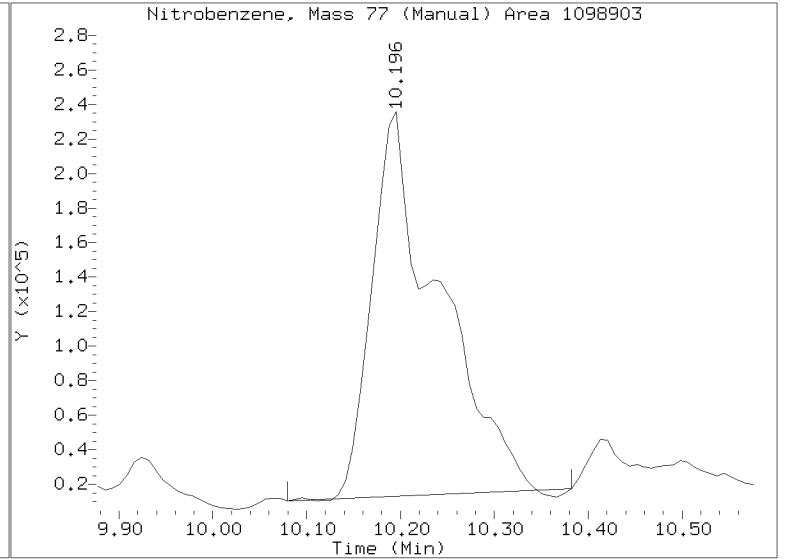
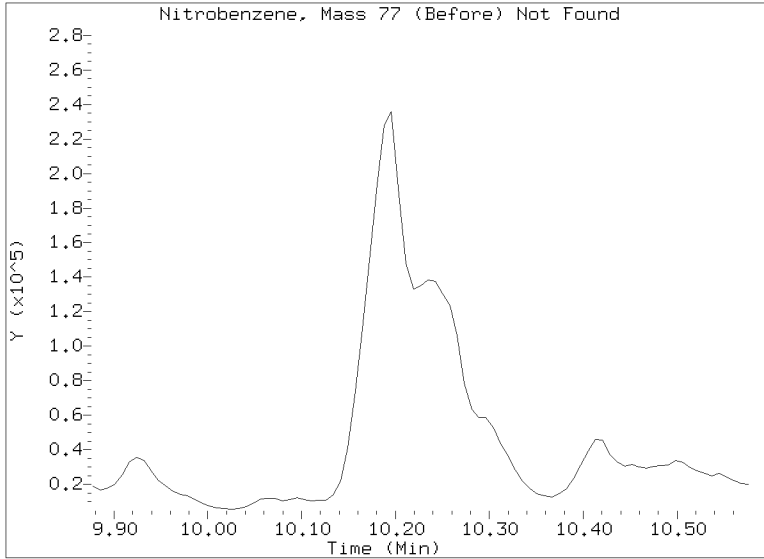
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071417.D

Injection Date: 15-JUL-2022 00:06

Lab ID: BKG0069-MSD1 Client ID:

Report Date: 07/19/2022 12:56



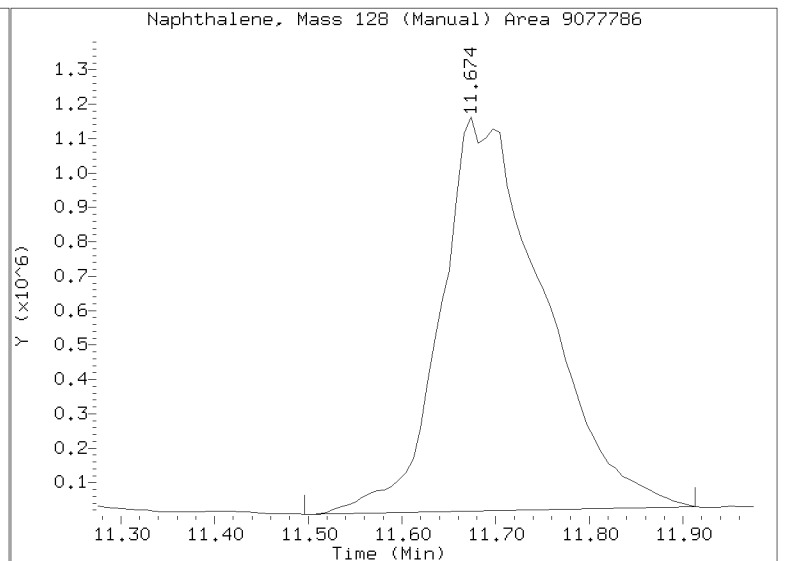
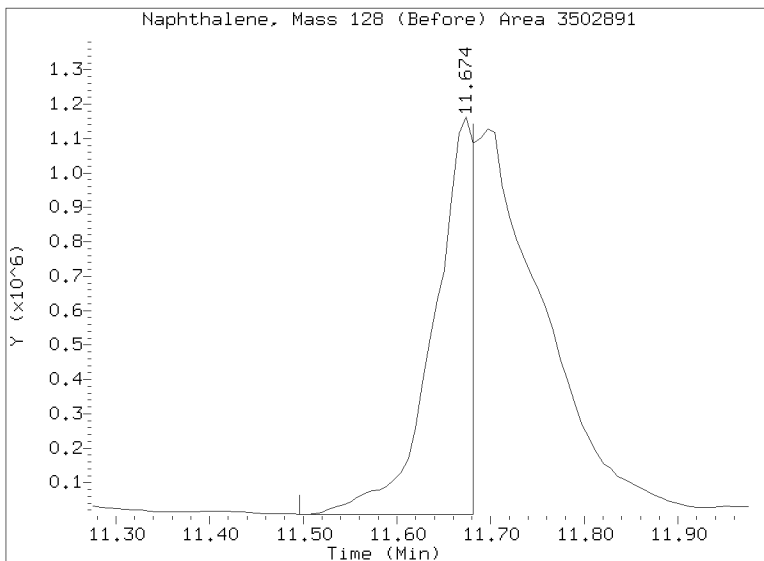
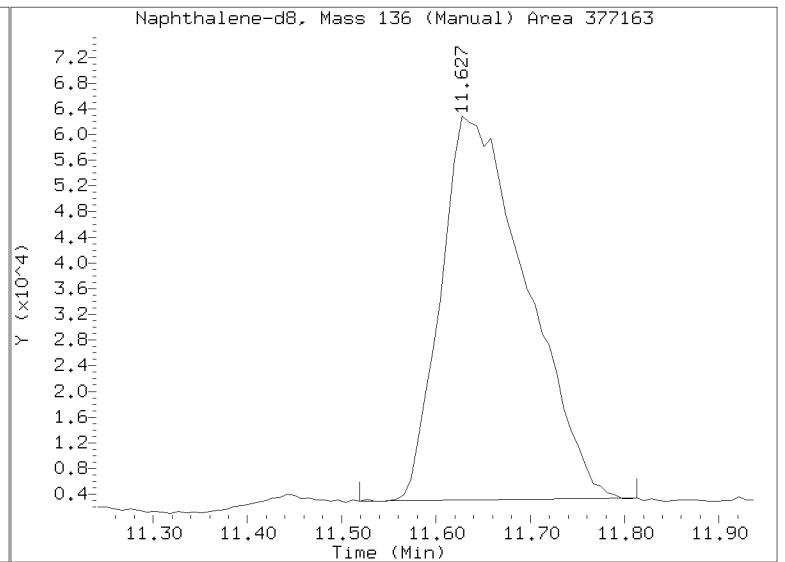
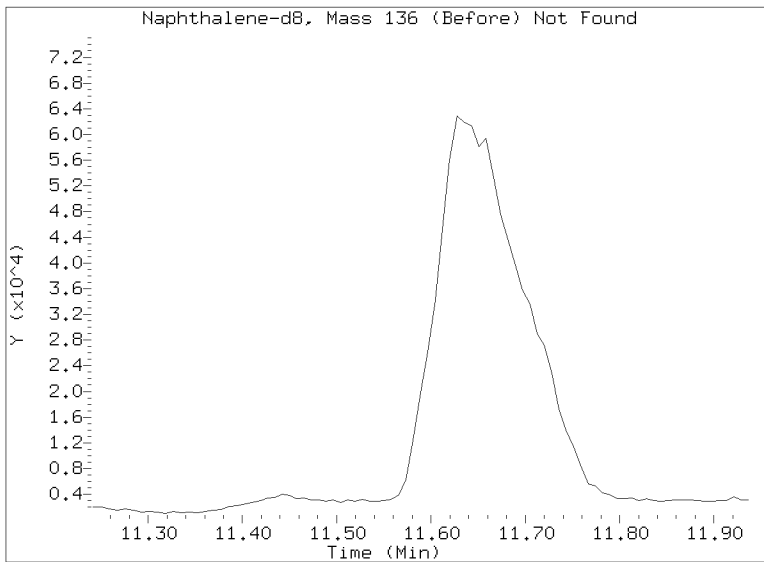
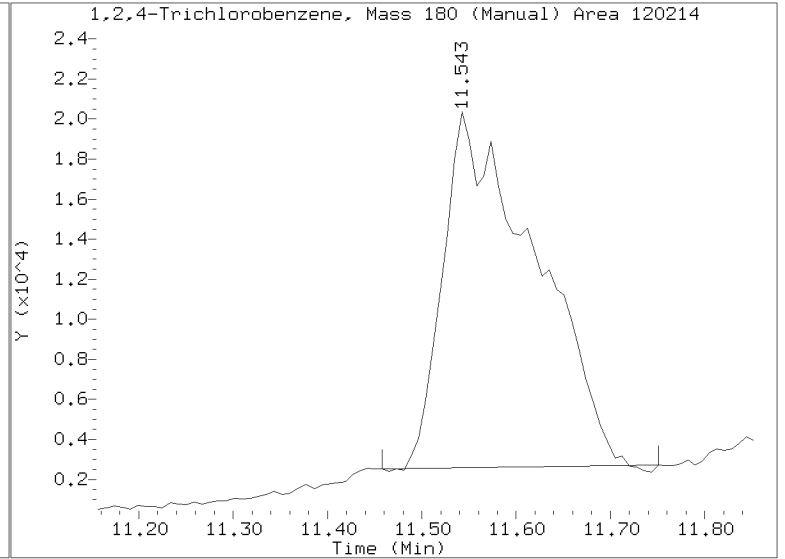
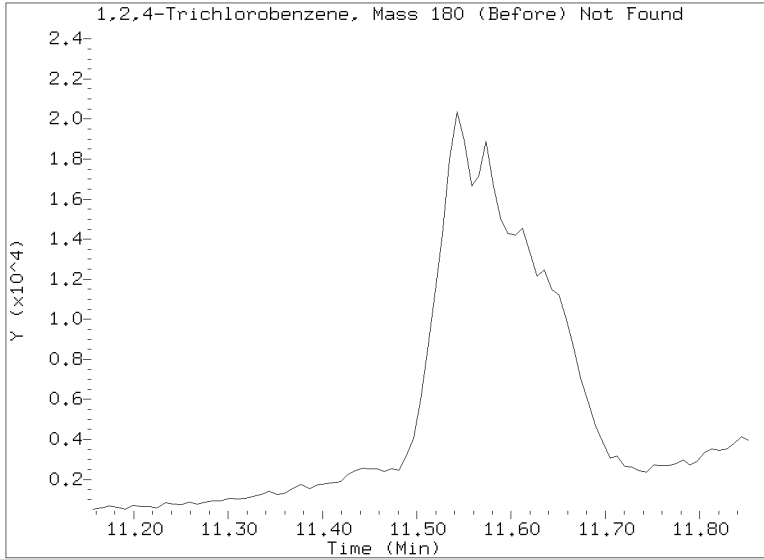
Quant Ion Manual Peak Adjustment Report

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Injection Date: 15-JUL-2022 00:06

Lab ID: BKG0069-MSD1 Client ID:

Report Date: 07/19/2022 12:56



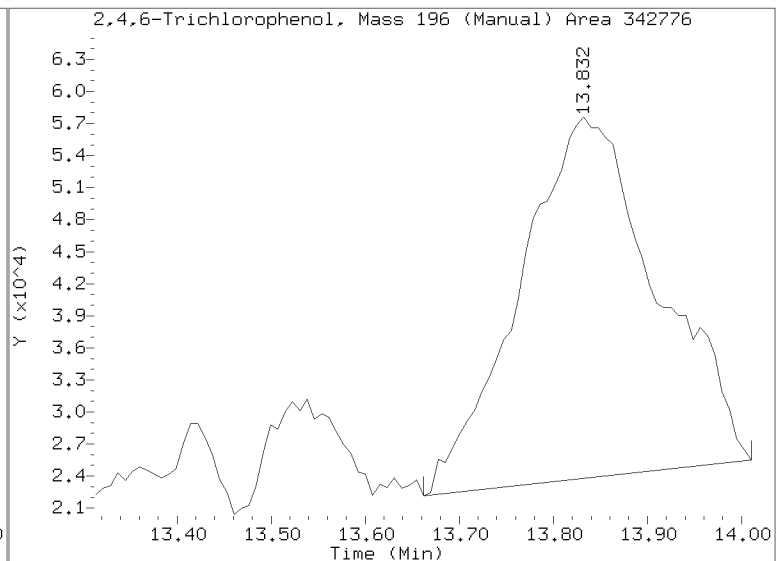
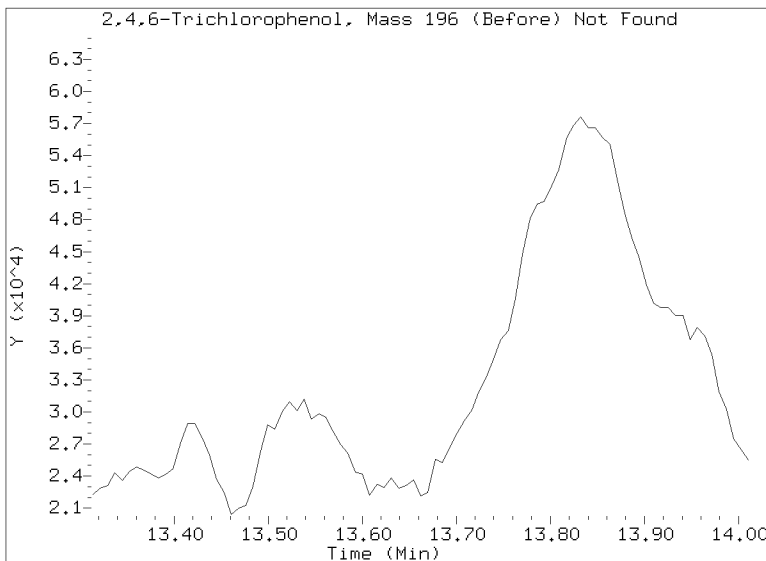
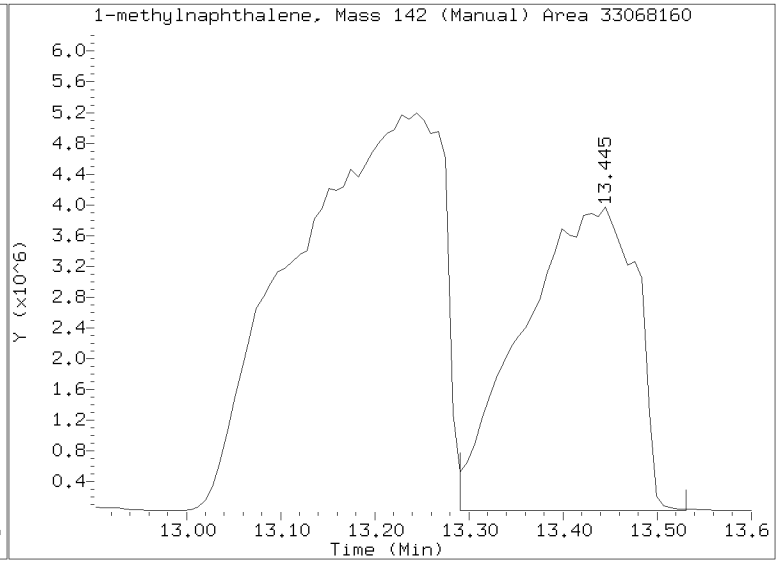
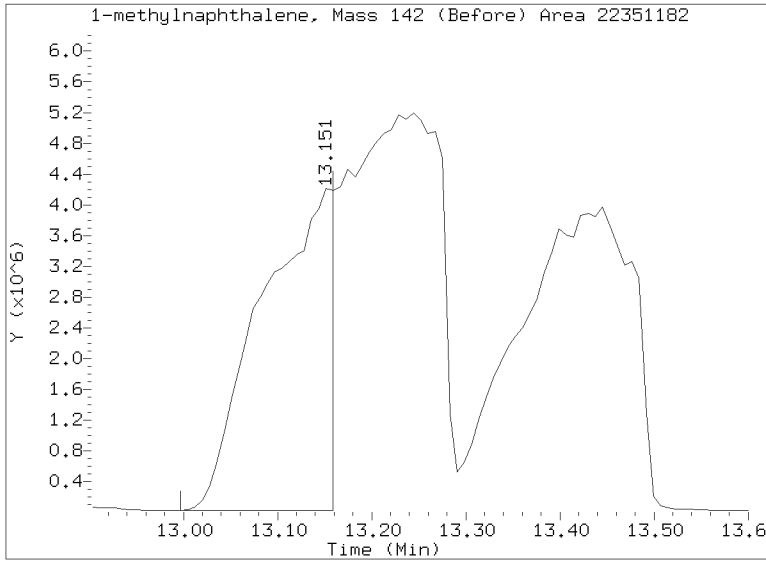
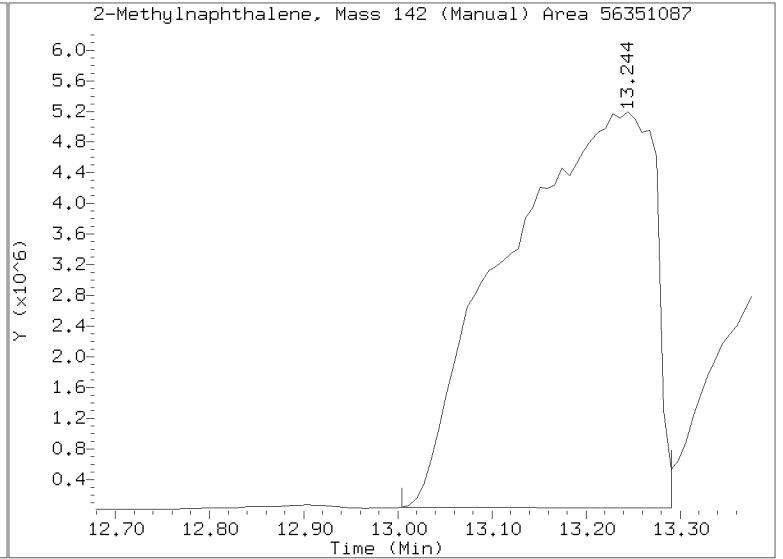
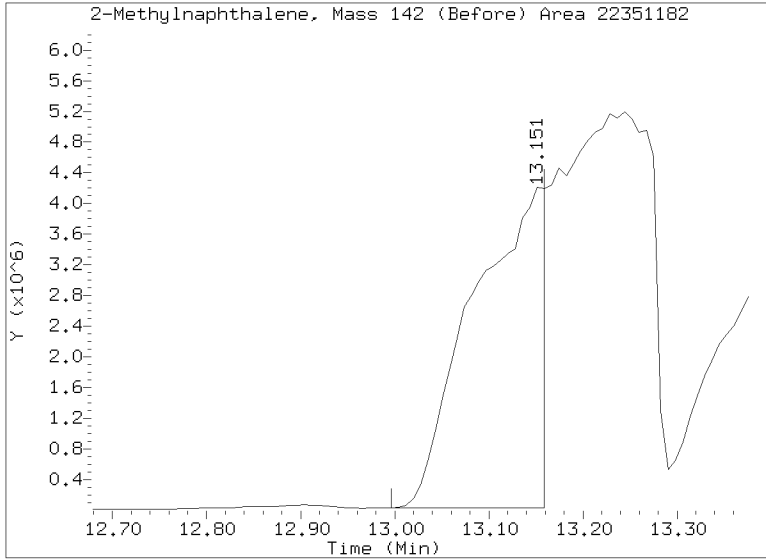
Quant Ion Manual Peak Adjustment Report

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Injection Date: 15-JUL-2022 00:06

Lab ID: BKG0069-MSD1 Client ID:

Report Date: 07/19/2022 12:56



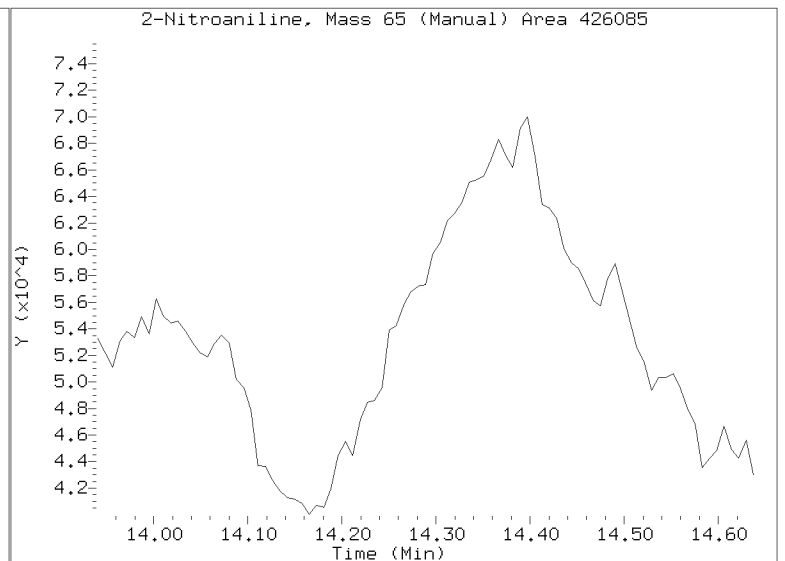
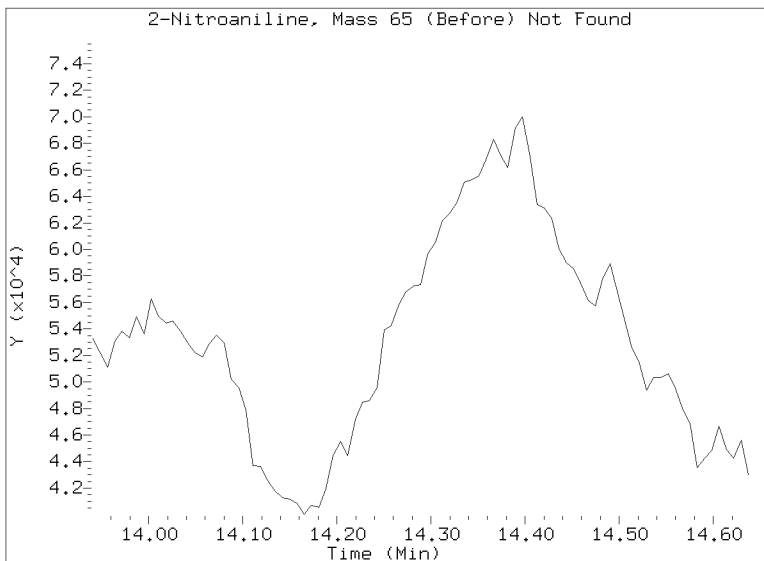
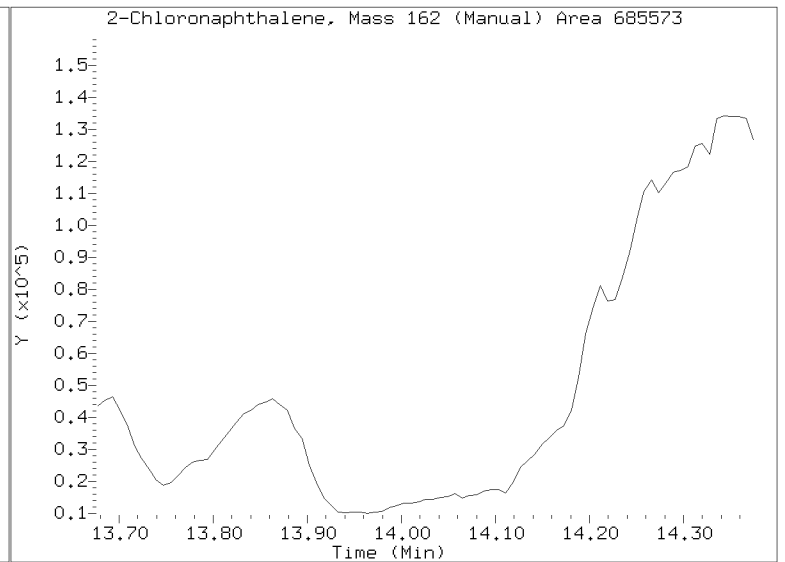
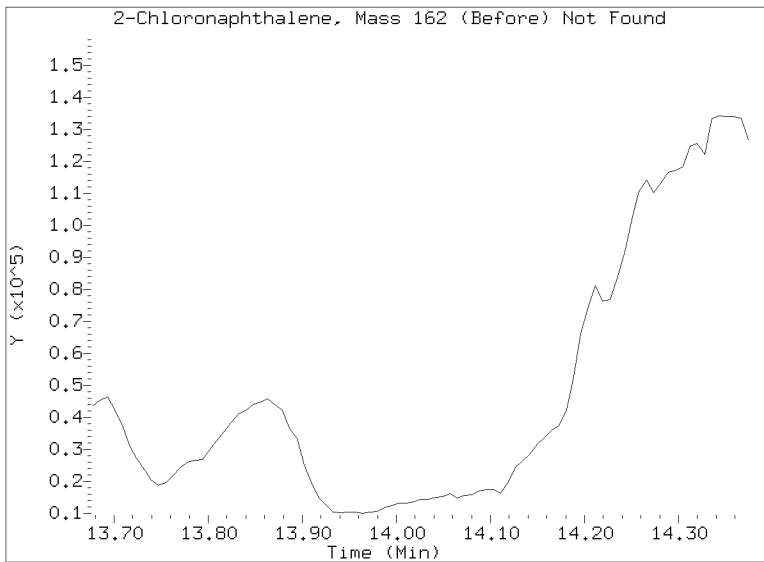
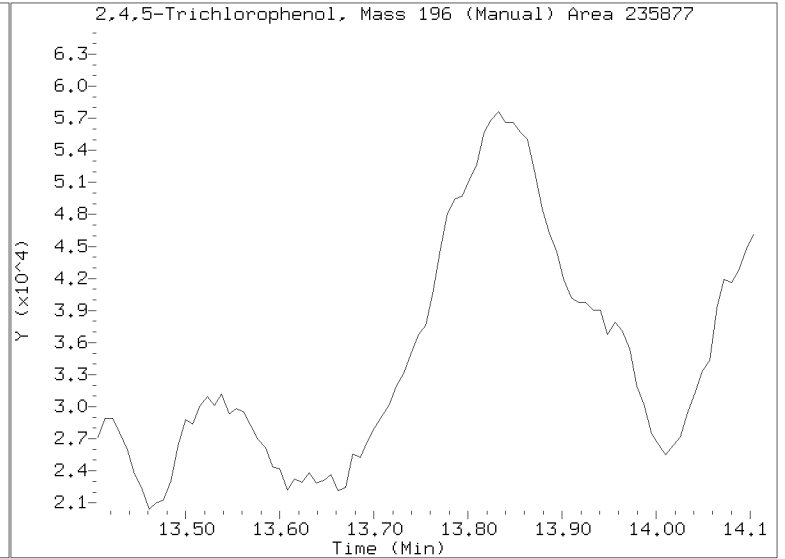
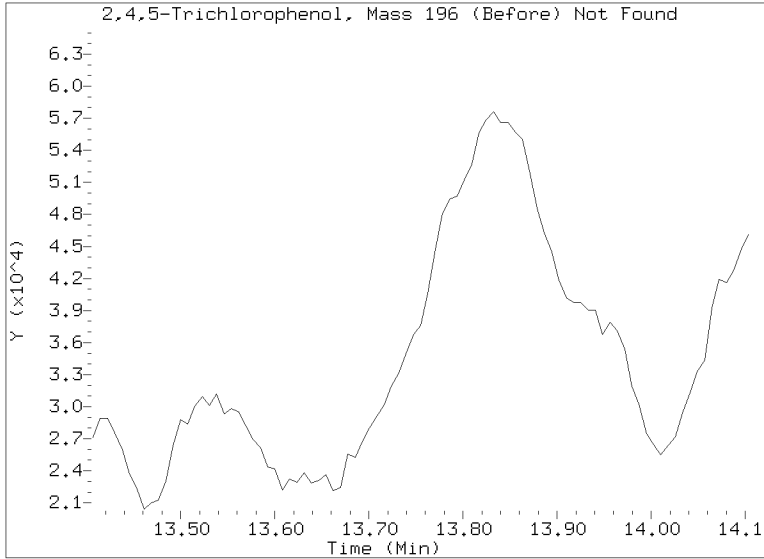
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071417.D

Injection Date: 15-JUL-2022 00:06

Lab ID: BKG0069-MSD1 Client ID:

Report Date: 07/19/2022 12:56



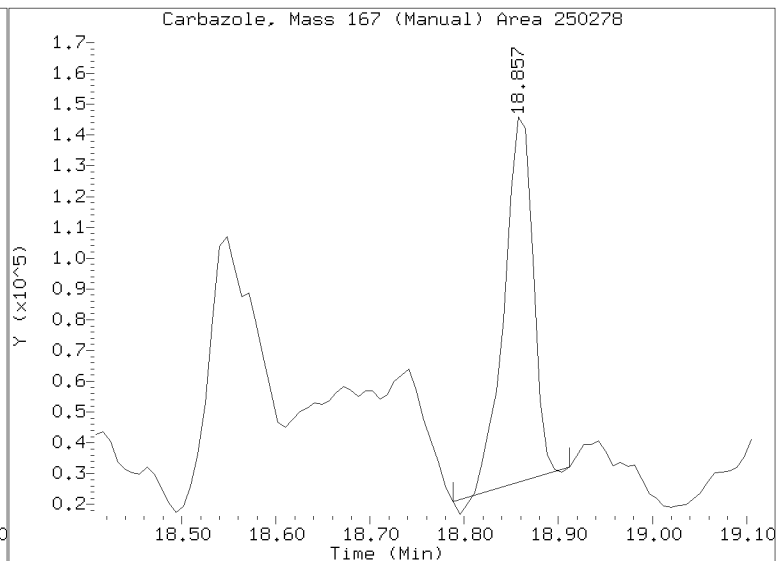
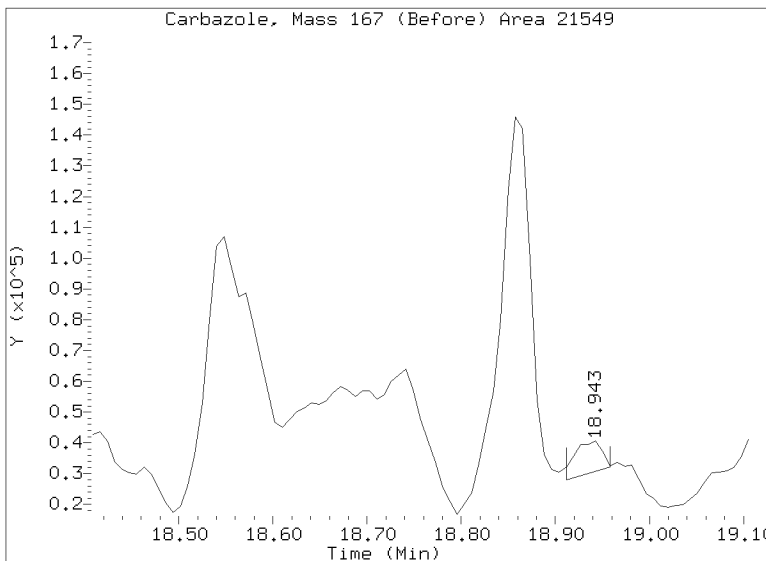
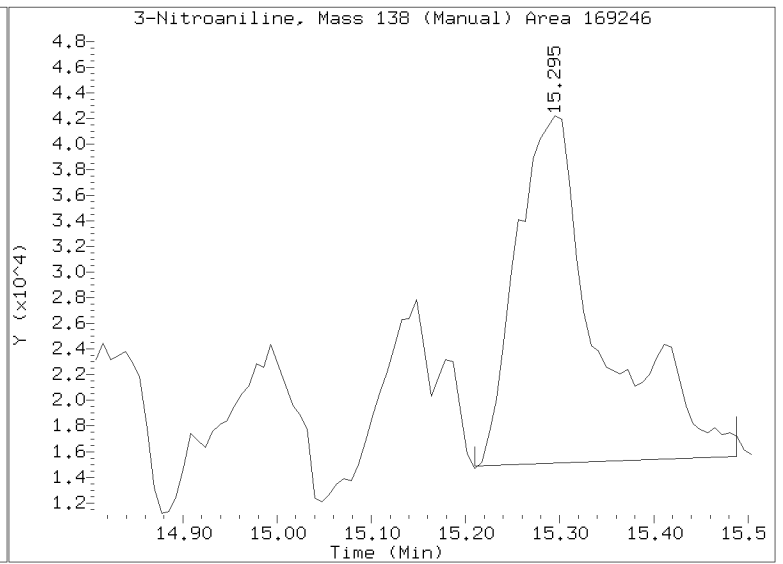
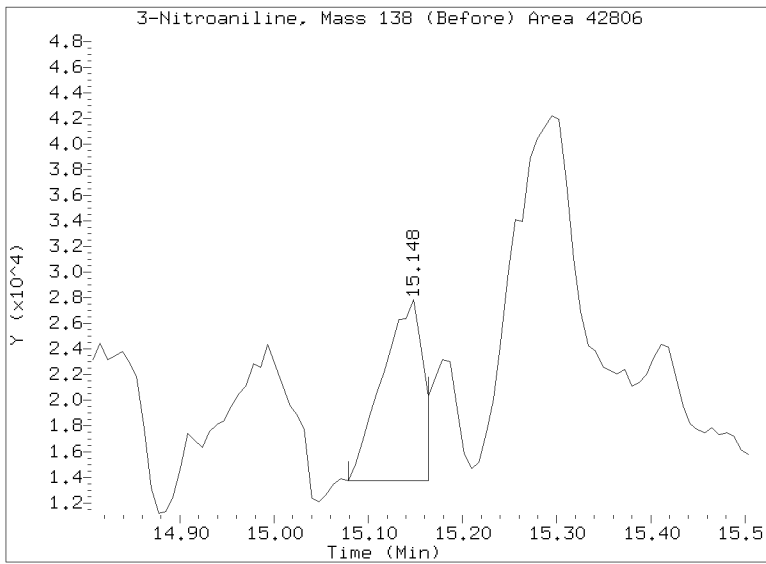
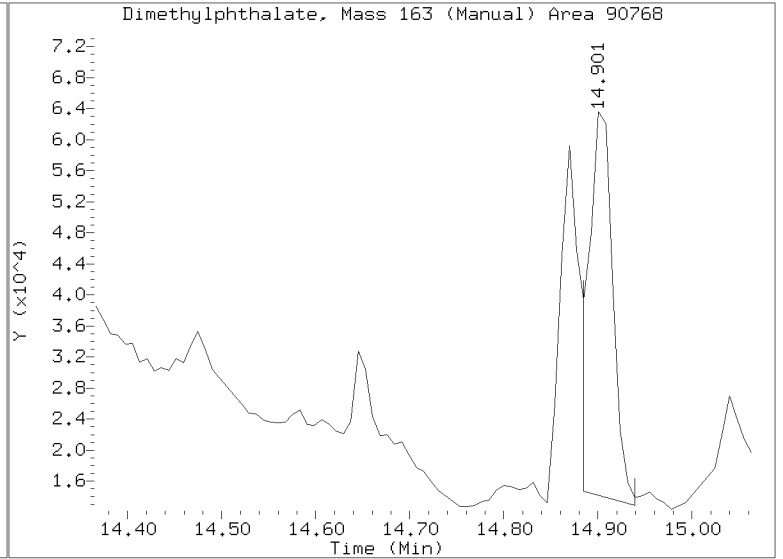
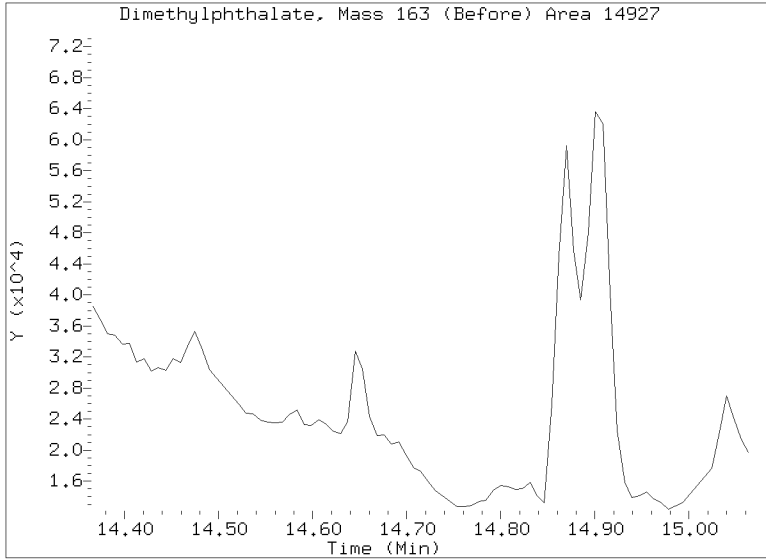
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071417.D

Injection Date: 15-JUL-2022 00:06

Lab ID: BKG0069-MSD1 Client ID:

Report Date: 07/19/2022 12:56





Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 22G0019
Client: GeoEngineers Project: RG Haley Site-Bellingham
Lab File ID: NT1022062301.D Injection Date: 06/23/22
Instrument ID: NT10 Injection Time: 09:00
Sequence: SKF0270 Lab Sample ID: SKF0270-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	36.2	PASS
70	Less than 2% of 69	0.456	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.81	PASS
365	1 - 100% of 198	2.96	PASS
441	Less than 150% of 443	79.7	PASS
442	1 - 200% of 198	70.7	PASS
443	15 - 24% of 442	19.3	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		



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

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0019</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Lab File ID:	<u>NT1022062301.D</u>	Injection Date:	<u>06/23/22</u>
Instrument ID:	<u>NT10</u>	Injection Time:	<u>09:00</u>
Sequence:	<u>SKF0270</u>	Lab Sample ID:	<u>SKF0270-TUN1</u>

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	36.2	PASS
70	Less than 2% of 69	0.456	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.81	PASS
365	1 - 100% of 198	2.96	PASS
441	Less than 150% of 443	79.7	PASS
442	1 - 200% of 198	70.7	PASS
443	15 - 24% of 442	19.3	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SKF0270-TUN1	NT1022062301.D	06/23/2022	9:00
Cal Standard	SKF0270-CAL5	NT1022062302.D	06/23/2022	9:16
Cal Standard	SKF0270-CAL7	NT1022062303.D	06/23/2022	9:54
Cal Standard	SKF0270-CAL1	NT1022062304.D	06/23/2022	10:33
Cal Standard	SKF0270-CAL6	NT1022062305.D	06/23/2022	11:11
Cal Standard	SKF0270-CAL2	NT1022062306.D	06/23/2022	11:50
Cal Standard	SKF0270-CAL4	NT1022062307.D	06/23/2022	12:29
Cal Standard	SKF0270-CAL3	NT1022062308.D	06/23/2022	13:07
Secondary Cal Check	SKF0270-SCV1	NT1022062311.D	06/23/2022	15:20
Initial Cal Blank	SKF0270-ICB1	NT1022062312.D	06/23/2022	15:59
Initial Cal Check	SKF0270-ICV1	NT1022062313.D	06/23/2022	16:38
Blank	BKF0257-BLK1	NT1022062315.D	06/23/2022	17:55
LCS	BKF0257-BS1	NT1022062316.D	06/23/2022	18:34
LCS Dup	BKF0257-BSD1	NT1022062317.D	06/23/2022	19:13
Reference	BKF0257-SRM1	NT1022062318.D	06/23/2022	19:52
ZZZZZ	22F0092-15	NT1022062319.D	06/23/2022	20:31
ZZZZZ	22F0092-16	NT1022062322.D	06/23/2022	22:27
ZZZZZ	22F0092-18	NT1022062323.D	06/23/2022	23:06
ZZZZZ	22F0092-24	NT1022062324.D	06/23/2022	23:45
ZZZZZ	22F0092-25	NT1022062325.D	06/24/2022	0:23
ZZZZZ	22F0151-01	NT1022062326.D	06/24/2022	1:02
ZZZZZ	22F0151-02	NT1022062327.D	06/24/2022	1:41
ZZZZZ	22D0147-02RE1	NT1022062328.D	06/24/2022	2:19
ZZZZZ	22D0147-03RE1	NT1022062329.D	06/24/2022	2:58
ZZZZZ	22D0147-04RE1	NT1022062330.D	06/24/2022	3:36
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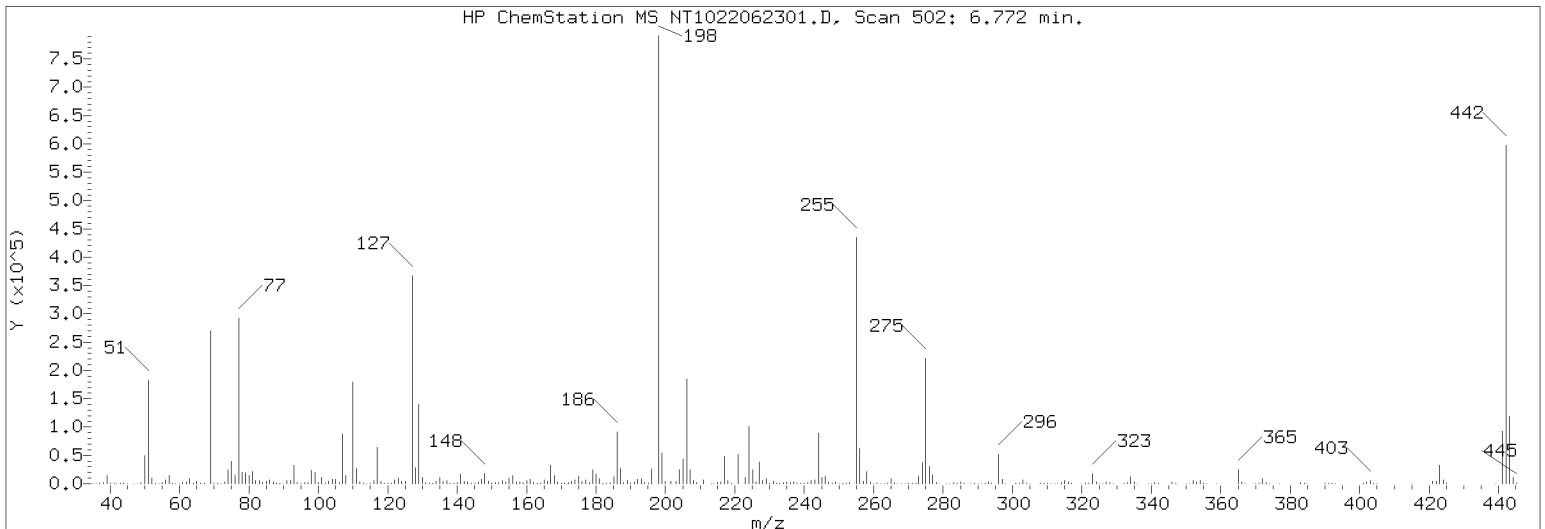
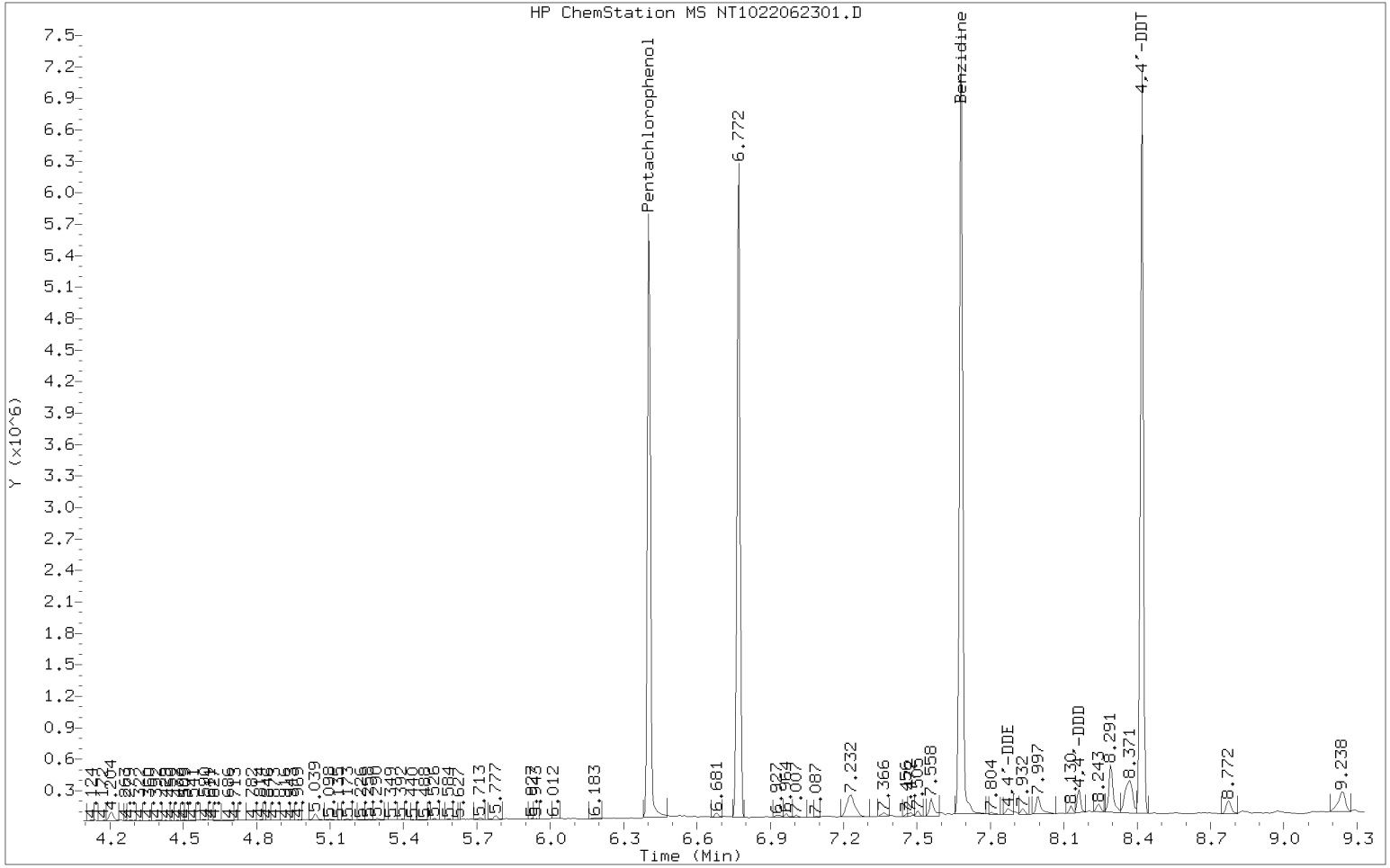
**MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0019</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Lab File ID:	<u>NT1022062301.D</u>	Injection Date:	<u>06/23/22</u>
Instrument ID:	<u>NT10</u>	Injection Time:	<u>09:00</u>
Sequence:	<u>SKF0270</u>	Lab Sample ID:	<u>SKF0270-TUN1</u>

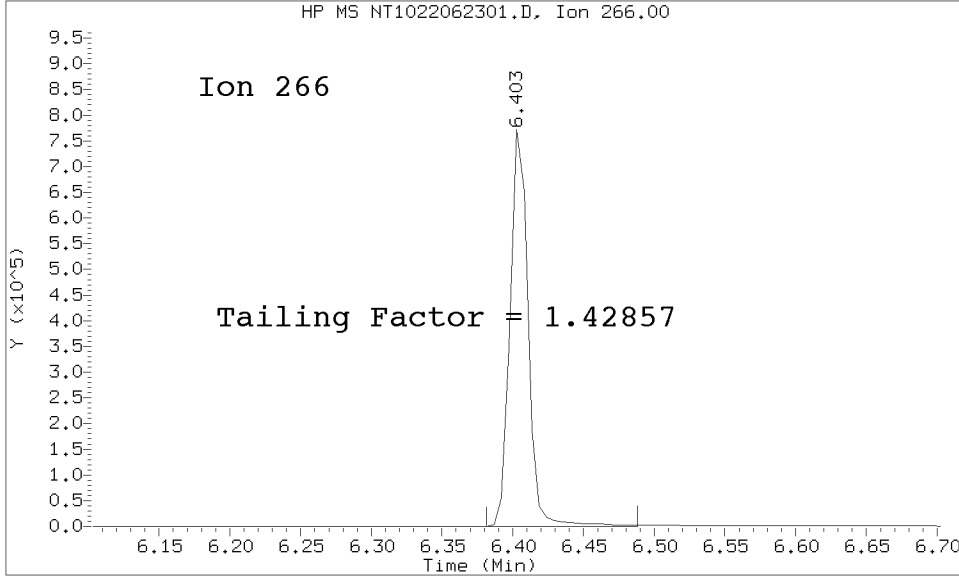
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	36.2	PASS
70	Less than 2% of 69	0.456	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.81	PASS
365	1 - 100% of 198	2.96	PASS
441	Less than 150% of 443	79.7	PASS
442	1 - 200% of 198	70.7	PASS
443	15 - 24% of 442	19.3	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		
Calibration Check		SKF0270-CCV1	NT1022062332.D
		06/24/2022	4:54

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20220623.b/NT1022062301.D/NT1022062301.D
Method Used: \20220623.b\DFTPP8270E.m Inst: nt10
Injection Date: 23-JUN-2022 09:00 Operator: VTS
Sample Info: SKF0270-TUN1 SKF0270-TUN1
Report Date: 06/25/2022 13:34



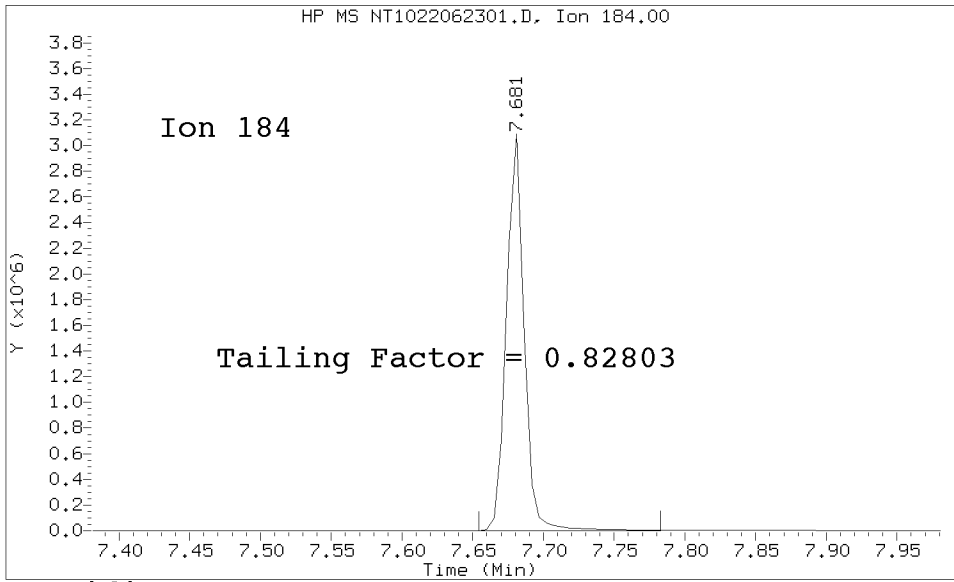
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Method Used: \20220623.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 23-JUN-2022 09:00 Operator: VTS
Sample Info: SKF0270-TUN1
Report Date: 06/25/2022 13:34



Pentachlorophenol

=====
Exp. RT = 6.435
Found RT = 6.403

Tail Factor = 1.429 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.702
Found RT = 7.681

Tail Factor = 0.828 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.4285714	2.000	PASS
Benzidine	0.8280330	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1182642			N/A
4,4-DDE	5705	0.5	20.0	PASS
4,4-DDD	38995	3.2	20.0	PASS
4,4-DDD + DDE	44700	3.6	20.0	PASS

Tuning Sample, nt10.i/20220623.b/NT1022062301.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	36.19
70	Less than 2.00% of mass 69	0.16 (0.46)
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.81
365	1.00 - 100.00% of mass 198	2.96
441	Less than 150.00% of mass 443	10.90 (79.67)
442	Less than 200.00% of mass 198	70.70
443	15.00 - 24.00% of mass 442	13.68 (19.35)

Data File: NT1022062301.D
 Spectrum: Avg. Scans 501-503 (6.77), Background Scan 496
 Location of Maximum: 198.00
 Number of points: 330

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	62	123.00	7738	209.00	1261	297.00	5636
36.00	115	124.00	3396	211.00	5743	298.00	375
37.00	733	125.00	3146	213.00	463	301.00	557
38.00	2308	127.00	300096	214.00	162	302.00	822
39.00	11563	128.00	22848	215.00	1533	303.00	4793
40.00	486	129.00	112944	216.00	3096	304.00	1156
41.00	123	130.00	9319	217.00	38504	305.00	187
42.00	54	131.00	1845	218.00	4869	308.00	599
43.00	177	132.00	940	219.00	523	309.00	476
44.00	54	133.00	264	221.00	40304	310.00	622
45.00	259	134.00	3184	223.00	8762	311.00	109
48.00	191	135.00	8661	224.00	78720	312.00	154
49.00	1202	136.00	3473	225.00	20216	313.00	398
50.00	41368	137.00	4097	226.00	2234	314.00	2017
51.00	151168	138.00	1063	227.00	30096	315.00	4575
52.00	8034	139.00	476	228.00	4651	316.00	2679
53.00	256	140.00	1511	229.00	6829	317.00	565
55.00	786	141.00	13167	230.00	1062	320.00	163
56.00	5149	142.00	4109	231.00	3104	321.00	1261
57.00	11468	143.00	3013	232.00	623	322.00	854
58.00	402	144.00	888	233.00	585	323.00	13460
59.00	142	145.00	451	234.00	1999	324.00	2430
60.00	111	146.00	2575	235.00	2357	325.00	290
61.00	2108	147.00	6522	236.00	1571	326.00	372
62.00	2604	148.00	14464	237.00	2751	327.00	2546
63.00	7988	149.00	3091	238.00	435	328.00	1371
64.00	1098	150.00	883	239.00	1431	329.00	227
65.00	3878	151.00	1835	240.00	1067	332.00	969
66.00	99	152.00	1144	241.00	2014	333.00	1351
67.00	329	153.00	4014	242.00	4585	334.00	8586
69.00	221952	154.00	3005	243.00	5099	335.00	2264
70.00	1011	155.00	7646	244.00	68824	336.00	263
71.00	345	156.00	10897	245.00	9200	339.00	238
72.00	142	157.00	2360	246.00	10801	340.00	277
73.00	1623	158.00	2392	247.00	2480	341.00	1580
74.00	20920	159.00	2149	248.00	608	342.00	425
75.00	33192	160.00	4284	249.00	2522	346.00	3026
76.00	11814	161.00	6136	250.00	443	347.00	511
77.00	242048	162.00	1868	251.00	558	350.00	69
78.00	16592	163.00	443	252.00	527	351.00	236
79.00	15265	164.00	1021	253.00	1130	352.00	4088
80.00	11913	165.00	4803	255.00	334464	353.00	2761
81.00	17040	166.00	3799	256.00	47528	354.00	4163
82.00	4106	167.00	25552	257.00	3638	355.00	832
83.00	3883	168.00	12023	258.00	16736	356.00	78
84.00	165	169.00	2216	259.00	2796	359.00	309
85.00	3032	170.00	1066	260.00	537	364.00	106
86.00	4569	171.00	1271	261.00	639	365.00	18136
87.00	2513	172.00	2314	262.00	71	366.00	2770

88.00	823	173.00	3272	263.00	184	367.00	212
89.00	491	174.00	5652	264.00	531	370.00	465
90.00	51	175.00	10027	265.00	6841	371.00	1096
91.00	4133	176.00	3308	266.00	972	372.00	7076
92.00	4747	177.00	4854	267.00	44	373.00	1732
93.00	26688	178.00	1565	268.00	200	374.00	239
94.00	1764	179.00	19984	269.00	54	377.00	90
95.00	639	180.00	13074	270.00	523	383.00	1840
96.00	1301	181.00	6623	271.00	633	384.00	471
97.00	731	182.00	1187	272.00	818	385.00	144
98.00	19808	183.00	839	273.00	10911	390.00	900
99.00	16736	184.00	1364	274.00	28000	391.00	640
100.00	1596	185.00	9404	275.00	167744	392.00	481
101.00	9731	186.00	73488	276.00	22704	393.00	137
102.00	647	187.00	20632	277.00	12078	401.00	472
103.00	3357	188.00	2092	278.00	1917	402.00	2612
104.00	6302	189.00	4715	279.00	467	403.00	3773
105.00	5597	190.00	748	280.00	58	404.00	1227
106.00	2244	191.00	2212	281.00	176	405.00	237
107.00	72808	192.00	6414	282.00	435	410.00	55
108.00	12266	193.00	6866	283.00	1308	415.00	136
110.00	145920	194.00	1360	284.00	910	421.00	3151
111.00	21576	195.00	905	285.00	2324	422.00	3202
112.00	2639	196.00	19928	286.00	460	423.00	23640
113.00	792	198.00	613312	287.00	53	424.00	4956
114.00	131	199.00	41776	288.00	88	425.00	512
115.00	362	200.00	3226	289.00	541	439.00	54
116.00	4391	201.00	3528	290.00	424	441.00	66840
117.00	53032	203.00	3496	291.00	338	442.00	433600
118.00	4107	204.00	19488	292.00	629	443.00	83896
119.00	479	205.00	33768	293.00	2675	444.00	7723
120.00	1077	206.00	144320	294.00	629	445.00	432
121.00	334	207.00	18832	295.00	325		
122.00	4704	208.00	4111	296.00	38976		



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22G0019
Client:	GeoEngineers	Project:	RG Haley Site-Bellingham
Calibration:	FF00062	Instrument:	NT10
Calibration Date:	06/23/2022	Column (1):	ZB-5MSi

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Phenol	0.2	1.96821	0.5	1.910899	1	1.892288	2.5	1.983475	5	1.900266	10	1.835467
bis(2-chloroethyl) ether	0.2	1.53664	0.5	1.366883	1	1.41359	2.5	1.363282	5	1.315336	10	1.261381
2-Chlorophenol	0.2	1.598835	0.5	1.517341	1	1.509086	2.5	1.491632	5	1.478711	10	1.433299
1,3-Dichlorobenzene	0.2	1.803979	0.5	1.742215	1	1.676965	2.5	1.644645	5	1.573902	10	1.510334
1,4-Dichlorobenzene	0.2	1.307741	0.5	1.280401	1	1.243578	2.5	1.309377	5	1.314652	10	1.269048
1,2-Dichlorobenzene	0.2	1.47824	0.5	1.382563	1	1.36501	2.5	1.382294	5	1.356752	10	1.297557
Benzyl Alcohol	0.2	0.6549426	0.5	0.6423037	1	0.7133957	2.5	0.7830622	5	0.8341739	10	0.8266465
2,2'-Oxybis(1-chloropropane)	0.2	0.339268	0.5	0.3267414	1	0.3319201	2.5	0.3133741	5	0.3186781	10	0.3086777
2-Methylphenol	0.2	1.193827	0.5	1.185176	1	1.152957	2.5	1.160047	5	1.183433	10	1.179761
Hexachloroethane	0.2	0.5645374	0.5	0.5583678	1	0.543851	2.5	0.564741	5	0.5807807	10	0.5921387
N-Nitroso-di-n-Propylamine	0.2	0.9012472	0.5	0.8408353	1	0.7965636	2.5	0.8305514	5	0.7912751	10	0.7671104
4-Methylphenol	0.2	1.237545	0.5	1.255424	1	1.239882	2.5	1.275409	5	1.263002	10	1.256635
Nitrobenzene	0.2	0.4496316	0.5	0.4181519	1	0.3995268	2.5	0.4252456	5	0.4476016	10	0.4273497
Isophorone	0.2	0.5444709	0.5	0.5322994	1	0.533613	2.5	0.6316252	5	0.6796901	10	0.6927199
2-Nitrophenol	0.2	0.2359536	0.5	0.2353315	1	0.267592	2.5	0.2872676	5	0.2852986	10	0.2919172
2,4-Dimethylphenol			1	0.34627	2	0.339436	5	0.3520119	10	0.3335436	20	0.3089458
Bis(2-Chloroethoxy)methane	0.2	0.4426015	0.5	0.3995513	1	0.372639	2.5	0.3453397	5	0.3408508	10	0.3466912
2,4-Dichlorophenol			1	0.3316894	2	0.3293988	5	0.3544467	10	0.3489015	20	0.3352069
1,2,4-Trichlorobenzene	0.2	0.411976	0.5	0.3826311	1	0.3590373	2.5	0.3511019	5	0.3439616	10	0.3058131
Naphthalene	0.2	0.970561	0.5	0.9478608	1	0.9461737	2.5	1.017071	5	1.072681	10	1.083027
Benzoic acid			2	4.747006E-02	4	6.603842E-02	10	0.1262181	20	0.1825418	40	0.1860004
4-Chloroaniline			1	0.3600805	2	0.3953252	5	0.443094	10	0.4888512	20	0.4959509
Hexachlorobutadiene	0.2	0.1776386	0.5	0.1686307	1	0.1658886	2.5	0.1791405	5	0.1819013	10	0.1640668
4-Chloro-3-Methylphenol			1	0.2650237	2	0.2845436	5	0.3722145	10	0.403277	20	0.421568
2-Methylnaphthalene	0.2	0.8619577	0.5	0.8857927	1	0.8853322	2.5	1.037041	5	1.109508	10	1.13891
Hexachlorocyclopentadiene			1	2.949231E-02	2	6.552831E-02	5	0.1462213	10	0.2108356	20	0.2777651
2,4,6-Trichlorophenol			1	0.3647935	2	0.3869536	5	0.4682345	10	0.5128191	20	0.5040251
2,4,5-Trichlorophenol			1	0.3621596	2	0.4158719	5	0.4755098	10	0.552411	20	0.5407514



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22G0019
Client:	GeoEngineers	Project:	RG Haley Site-Bellingham
Calibration:	FF00062	Instrument:	NT10
Calibration Date:	06/23/2022	Column (1):	ZB-5MSi

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2-Chloronaphthalene	0.2	1.5565	0.5	1.567738	1	1.529255	2.5	1.624213	5	1.691752	10	1.614303
2-Nitroaniline			1	0.3577624	2	0.3825329	5	0.4365961	10	0.461605	20	0.4633515
Acenaphthylene	0.2	2.539522	0.5	2.500753	1	2.568262	2.5	2.547381	5	2.202038	10	2.060461
Dimethylphthalate	0.2	1.579247	0.5	1.581981	1	1.483116	2.5	1.451553	5	1.396063	10	1.211064
2,6-Dinitrotoluene			1	0.3283718	2	0.3211823	5	0.3361748	10	0.3364303	20	0.3172406
Acenaphthene	0.2	1.070253	0.5	1.074497	1	1.074373	2.5	1.157052	5	1.24129	10	1.233823
3-Nitroaniline			1	0.352766	2	0.3681034	5	0.396533	10	0.3917341	20	0.3803771
2,4-Dinitrophenol			2	1.631177E-02	4	3.856558E-02	10	9.400553E-02	20	0.1486022	40	0.1661203
Dibenzofuran	0.2	1.66981	0.5	1.73653	1	1.752399	2.5	1.908047	5	2.002569	10	1.960113
4-Nitrophenol	0.4	0.0608603	1	7.467465E-02	2	8.323482E-02	5	0.1124222	10	0.128707	20	0.1328731
2,4-Dinitrotoluene			1	0.375555	2	0.387878	5	0.4493825	10	0.478073	20	0.4621657
Fluorene	0.2	2.39897	0.5	2.374442	1	2.218434	2.5	2.215382	5	2.196656	10	2.057077
4-Chlorophenylphenyl ether	0.2	1.051632	0.5	1.014743	1	0.9246496	2.5	0.9763716	5	0.9642347	10	0.9245749
Diethyl phthalate	0.2	1.22001	0.5	1.263885	1	1.233471	2.5	1.272965	5	1.245679	10	1.138208
4-Nitroaniline	0.4	0.3771434	1	0.3809809	2	0.4038127	5	0.3117665	10	0.3929611	20	0.4013645
4,6-Dinitro-2-methylphenol	0.8	0.0483755	2	7.954888E-02	4	0.1018897	10	0.1394944	20	0.1584417	40	0.157053
N-Nitrosodiphenylamine	0.2	0.7431	0.5	0.7016603	1	0.6724369	2.5	0.6371059	5	0.6100658	10	0.5295289
4-Bromophenyl phenyl ether	0.2	0.2875634	0.5	0.2793756	1	0.2849542	2.5	0.2954273	5	0.3130558	10	0.2907771
Hexachlorobenzene	0.2	0.3236076	0.5	0.3155079	1	0.3116589	2.5	0.2862733	5	0.2762598	10	0.2477436
Pentachlorophenol			1	1.283533E-02	2	1.823241E-02	5	3.764968E-02	10	6.369167E-02	20	6.790092E-02
Phenanthrene	0.2	1.025862	0.5	0.9726716	1	0.9787481	2.5	1.032843	5	1.092084	10	1.086939
Anthracene	0.2	1.015924	0.5	1.003064	1	1.035194	2.5	1.116958	5	1.214901	10	1.191138
Carbazole	0.2	0.9852283	0.5	0.9715664	1	1.030863	2.5	1.095233	5	1.056817	10	0.9736986
Di-n-Butylphthalate	0.2	1.218452	0.5	1.235972	1	1.26804	2.5	1.492751	5	1.64539	10	1.671667
Fluoranthene	0.2	1.905256	0.5	2.179747	1	1.928522	2.5	2.425804	5	3.245573	10	2.983891
Pyrene	0.2	2.110856	0.5	2.145772	1	2.011161	2.5	2.325334	5	2.645557	10	2.700498
Butylbenzylphthalate	0.2	0.7932838	0.5	0.8357493	1	0.6778332	2.5	0.7755873	5	0.9306317	10	0.8086927
Benzo(a)anthracene	0.2	1.771713	0.5	1.745885	1	1.602027	2.5	1.678431	5	1.690787	10	1.677467



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22G0019
Client:	GeoEngineers	Project:	RG Haley Site-Bellingham
Calibration:	FF00062	Instrument:	NT10
Calibration Date:	06/23/2022	Column (1):	ZB-5MSi

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Phenol	1.888492	4.6			RSD (15)	
bis(2-chloroethyl) ether	1.359122	7.1			RSD (15)	
2-Chlorophenol	1.50557	3.3			RSD (15)	
1,3-Dichlorobenzene	1.628412	7.8			RSD (15)	
1,4-Dichlorobenzene	1.283607	2.2			RSD (15)	
1,2-Dichlorobenzene	1.362657	4.8			RSD (15)	
Benzyl Alcohol	0.7522971	10.8			RSD (15)	
2,2'-Oxybis(1-chloropropane)	0.3222545	3.4			RSD (15)	
2-Methylphenol	1.164369	2.9			RSD (15)	
Hexachloroethane	0.5721944	3.5			RSD (15)	
N-Nitroso-di-n-Propylamine	0.8097827	6.5			RSD (15)	
4-Methylphenol	1.244349	2.4			RSD (15)	
Nitrobenzene	0.4289874	4.1			RSD (15)	
Isophorone	0.6205796	13.5			RSD (15)	
2-Nitrophenol	0.2709617	9.4			RSD (15)	
2,4-Dimethylphenol	0.3291631	6.8			RSD (15)	
Bis(2-Chloroethoxy)methane	0.3728438	9.9			RSD (15)	
2,4-Dichlorophenol	0.3345374	4.9			RSD (15)	
1,2,4-Trichlorobenzene	0.3494981	11.9			RSD (15)	
Naphthalene	1.023725	7.1			RSD (15)	
Benzoic acid	0.1354719	49.2		0.9965	QCOD (0.99)	
4-Chloroaniline	0.4520265	14.3			RSD (15)	
Hexachlorobutadiene	0.1713061	4.7			RSD (15)	
4-Chloro-3-Methylphenol	0.3652577	20.3		0.9995	QCOD (0.99)	
2-Methylnaphthalene	1.017437	13.7			RSD (15)	
Hexachlorocyclopentadiene	0.1773971	67.3		0.9920	QCOD (0.99)	
2,4,6-Trichlorophenol	0.4546098	13.9			RSD (15)	
2,4,5-Trichlorophenol	0.478721	15.9		0.9993	QCOD (0.99)	
2-Chloronaphthalene	1.595707	3.4			RSD (15)	
2-Nitroaniline	0.4268379	10.7			RSD (15)	
Acenaphthylene	2.338215	11.2			RSD (15)	



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22G0019
Client:	GeoEngineers	Project:	RG Haley Site-Bellingham
Calibration:	FF00062	Instrument:	NT10
Calibration Date:	06/23/2022	Column (1):	ZB-5MSi

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Dimethylphthalate	1.402742	12.7			RSD (15)	
2,6-Dinitrotoluene	0.3257863	2.9			RSD (15)	
Acenaphthene	1.163308	8.0			RSD (15)	
3-Nitroaniline	0.3835195	5.5			RSD (15)	
2,4-Dinitrophenol	0.1087769	65.0		0.9941	QCOD (0.99)	
Dibenzofuran	1.848768	6.9			RSD (15)	
4-Nitrophenol	0.1044372	29.9		0.9992	QCOD (0.99)	
2,4-Dinitrotoluene	0.4354293	9.8			RSD (15)	
Fluorene	2.209076	6.6			RSD (15)	
4-Chlorophenylphenyl ether	0.9701069	5.0			RSD (15)	
Diethyl phthalate	1.203317	6.7			RSD (15)	
4-Nitroaniline	0.3841274	9.1			RSD (15)	
4,6-Dinitro-2-methylphenol	0.1197775	36.5		0.9991	QCOD (0.99)	
N-Nitrosodiphenylamine	0.6289655	13.8			RSD (15)	
4-Bromophenyl phenyl ether	0.2914116	3.7			RSD (15)	
Hexachlorobenzene	0.285163	12.1			RSD (15)	
Pentachlorophenol	4.628238E-02	58.9		0.9943	QCOD (0.99)	
Phenanthrene	1.050877	6.6			RSD (15)	
Anthracene	1.119877	9.4			RSD (15)	
Carbazole	1.033145	5.8			RSD (15)	
Di-n-Butylphthalate	1.484732	17.0		0.9998	QCOD (0.99)	
Fluoranthene	2.585978	24.4		0.9981	QCOD (0.99)	
Pyrene	2.433986	16.2		0.9997	QCOD (0.99)	
Butylbenzylphthalate	0.80807	9.4			RSD (15)	
Benzo(a)anthracene	1.694977	3.2			RSD (15)	
3,3'-Dichlorobenzidine	0.552325	10.0			RSD (15)	
Chrysene	1.169531	17.0		0.9996	QCOD (0.99)	
bis(2-Ethylhexyl)phthalate	0.4421262	6.9			RSD (15)	
Di-n-Octylphthalate	0.9091601	3.1			RSD (15)	
Benzo(b)fluoranthene	1.811534	8.7			RSD (15)	
Benzo(k)fluoranthene	1.741941	4.3			RSD (15)	



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22G0019
Client:	GeoEngineers	Project:	RG Haley Site-Bellingham
Calibration:	FF00062	Instrument:	NT10
Calibration Date:	06/23/2022	Column (1):	ZB-5MSi

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Benzofluoranthenes, Total	1.689058	4.6			RSD (15)	
Benzo(a)pyrene	1.482642	7.2			RSD (15)	
Indeno(1,2,3-cd)pyrene	1.583035	5.2			RSD (15)	
Dibenzo(a,h)anthracene	1.21187	4.5			RSD (15)	
Benzo(g,h,i)perylene	1.265427	5.2			RSD (15)	
1-Methylnaphthalene	0.9995882	11.7			RSD (15)	
2-Fluorophenol	1.460615	4.7			RSD (15)	
Phenol-d5	2.167235	12.9			RSD (15)	
2-Chlorophenol-d4	1.488278	3.8			RSD (15)	
1,2-Dichlorobenzene-d4	0.9170783	2.2			RSD (15)	
Nitrobenzene-d5	0.4256249	5.0			RSD (15)	
2-Fluorobiphenyl	1.810111	5.1			RSD (15)	
2,4,6-Tribromophenol	0.1582114	20.8		0.9997	QCOD (0.99)	
p-Terphenyl-d14	1.395884	6.7			RSD (15)	



ANALYSIS SEQUENCE

SKF0270

Instrument: NT10 Element Column ID: k000190
 Calibration ID: UNASSIGNED Tune File: 211222u
 EM Voltage: 1976

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SKF0270-TUN1	MS Tune	QC		1	K004775		
SKF0270-CAL5	CAL 5	QC		2	K005652	J012379	
SKF0270-CAL7	CAL 20	QC		3	K005654	J012379	
SKF0270-CAL1	CAL 0.2	QC		4	K005648	J012379	
SKF0270-CAL6	CAL 10	QC		5	K005653	J012379	
SKF0270-CAL2	CAL 0.5	QC		6	K005649	J012379	
SKF0270-CAL4	CAL 2.5	QC		7	K005651	J012379	
SKF0270-CAL3	CAL 1.0	QC		8	K005650	J012379	
SKF0270-SCV1	SCV 5.0	QC		9	J008837	J012379	
SKF0270-ICB1	Initial Cal Blank	QC		10	K005156	J012379	
SKF0270-ICV1	ABN 5	QC		11	K005652	J012379	
BKF0257-BLK1	Blank	QC		12		J012379	
BKF0257-BS1	LCS	QC		13		J012379	
BKF0257-BSD1	LCS Dup	QC		14		J012379	
BKF0257-SRM1	Reference	QC		15		J012379	
BKF0257-MS1	Matrix Spike	QC		16		J012379	
BKF0257-MSD1	Matrix Spike Dup	QC		17		J012379	
22F0092-15	T91-RI-SC27D	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 04	18		J012379	
22F0092-16	T91-RI-SC05D	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 03	19		J012379	
22F0092-18	T91-RI-SC24D	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 03	20		J012379	
22F0092-24	T91-RI-SC05C	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 03	21		J012379	
22F0092-25	T91-RI-SC05E	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 03	22		J012379	



ANALYSIS SEQUENCE

SKF0270

Instrument: NT10 Element Column ID: k000190
Calibration ID: UNASSIGNED Tune File: 211222u
EM Voltage: 1976

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
22F0151-01	CS-20220606	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 03	23		J012379	
22F0151-02	HL-20220606	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 03	24		J012379	
22D0147-02RE1	SK-SED-5	SVOC (20ug/kg solid or 0.2ug/L low H2C	A 01	25		J012379	Added 6/25/2022 by YZ
22D0147-03RE1	SK-SED-4	SVOC (20ug/kg solid or 0.2ug/L low H2C	A 01	26		J012379	Added 6/25/2022 by YZ
22D0147-04RE1	SK-SED-3	SVOC (20ug/kg solid or 0.2ug/L low H2C	A 01	27		J012379	Added 6/25/2022 by YZ
22E0353-05RE1	ST1-051922-G	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 01	28		J012379	Added 6/25/2022 by YZ
SKF0270-CCV1	ABN 5	QC		29	K005652	J012379	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20220623.b

Time	Filename	LabID	ClientId	DF																
1	0900	NT1022062301.D	SKF0270-TUN1		1		NO ISTDS FOUND													
2	0916	NT1022062302.D	SKF0270-CAL5		1		9.11	155417	11.60	491185	15.23	281977	18.29	498577	23.40	263544	26.13	174316	24.47	453170
3	0954	NT1022062303.D	SKF0270-CAL7		1		9.11	115640	11.60	370549	15.24	225060	18.30	399324	23.41	225089	26.13	176675	24.48	585877
4	1033	NT1022062304.D	SKF0270-CAL1		1		9.11	242464	11.60	742519	15.23	378079	18.29	658081	23.40	491829	26.13	321528	24.48	722685
5	1111	NT1022062305.D	SKF0270-CAL6		1		9.11	135958	11.60	444992	15.23	259574	18.30	461222	23.40	277750	26.13	210708	24.48	596169
6	1150	NT1022062306.D	SKF0270-CAL2		1		9.11	216832	11.60	685569	15.23	353855	18.29	636992	23.39	423840	26.12	261902	24.48	620564
7	1229	NT1022062307.D	SKF0270-CAL4		1		9.11	171593	11.60	555613	15.23	318777	18.29	567888	23.40	384194	26.13	266368	24.48	651920
8	1307	NT1022062308.D	SKF0270-CAL3		1		9.10	196951	11.60	634040	15.23	337503	18.29	590158	23.40	454991	26.12	330191	24.48	731655
9	1346	NT1022062309.D	SKF0270-SIM.1		1		9.10	260886	11.60	795459	15.23	379249	18.29	687004	23.39	531607	26.12	364790	24.47	784634
10	1425	NT1022062310.D	SKF0270-SIM.05		1		9.11	273741	11.60	816621	15.23	386654	18.29	696864	23.39	530944	26.10	370290	24.46	772393
11	1520	NT1022062311.D	SKF0270-SCV1		1		9.12	152987	11.60	505418	15.23	286969	18.30	505363	23.39	344386	26.10	267390	24.45	654412
12	1559	NT1022062312.D	SKF0270-ICB1		1		9.10	208909	11.59	724721	15.22	361524	18.28	629366	23.35	466619	26.06	359159	24.42	716301
13	1638	NT1022062313.D	SKF0270-ICV1		1		9.10	149714	11.59	491315	15.22	286589	18.28	498820	23.35	311295	26.05	218550	24.42	577982
14	1716	NT1022062314.D	SKF0270-ICV1		1		9.10	197282	11.59	632703	15.22	343508	18.27	603051	23.35	458481	26.05	345763	24.42	736521
15	1755	NT1022062315.D	BKF0257-BLK1		1		9.10	171377	11.59	645777	15.22	332295	18.27	581057	23.35	423773	26.03	320747	24.41	651021
16	1834	NT1022062316.D	BKF0257-BS1		1		9.11	160580	11.59	524700	15.22	301193	18.27	510631	23.35	373306	26.03	287554	24.41	686225
17	1913	NT1022062317.D	BKF0257-BSD1		1		9.10	160676	11.59	526572	15.22	305400	18.27	516627	23.35	371718	26.03	297341	24.41	719799
18	1952	NT1022062318.D	BKF0257-SRM1		1		9.10	175834	11.59	543898	15.21	307429	18.27	533941	23.35	314302	26.04	235256	24.41	600845
19	2031	NT1022062319.D	22F0092-15		1		9.10	195813	11.59	715701	15.22	365881	18.27	509527	23.34	196910	26.03	142314	24.40	369268
20	2110	NT1022062320.D	BKF0257-MS1		1		9.11	142012	11.60	485048	15.22	267717	18.27	392543	23.34	163817	26.01	123125	24.39	324331

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20220623.b

Time	Filename	LabID	ClientId	DF																						
21	2149	NT1022062321.D	BKF0257-MSD1		1		9.11	150620		11.60	517764		15.22	285331		18.26	414731		23.34	171619		26.01	128384		24.39	354549
22	2227	NT1022062322.D	22F0092-16		1		9.10	188600		11.59	696718		15.21	364161		18.26	611931		23.33	259697		26.00	180630		24.38	451821
23	2306	NT1022062323.D	22F0092-18		1		9.10	201611		11.59	717884		15.21	369417		18.26	560211		23.33	243638		26.00	175830		24.38	440824
24	2345	NT1022062324.D	22F0092-24		1		9.10	183708		11.59	668445		15.21	337793		18.26	557683		23.33	265551		26.00	182059		24.38	444230
25	0023	NT1022062325.D	22F0092-25		1		9.10	183832		11.59	673636		15.21	347823		18.26	604075		23.33	236591		26.01	166847		24.39	405392
26	0102	NT1022062326.D	22F0151-01		1		9.11	166495		11.59	563771		15.22	283051		18.27	374783		23.36	113331		26.08	86025		24.43	254002
27	0141	NT1022062327.D	22F0151-02		1		9.11	155171		11.60	553946		15.22	259937		18.27	313734		23.36	116839		26.08	90523		24.42	279387
28	0219	NT1022062328.D	22D0147-02RE1		20		9.11	222365		11.59	738312		15.22	338581		18.27	397586		23.35	104482		26.03	89165		24.40	220748
29	0258	NT1022062329.D	22D0147-03RE1		20		9.11	218725		11.60	751983		15.22	364895		18.27	572439		23.35	130577		26.03	104497		24.40	254037
30	0336	NT1022062330.D	22D0147-04RE1		50		9.11	245326		11.60	768066		15.22	380993		18.27	643011		23.35	176808		26.03	126138		24.39	316575
31	0415	NT1022062331.D	22E0353-05RE1		1		9.11	196616		11.59	711993		15.21	331088		18.27	518987		23.35	122962		26.05	91219		24.41	254233
32	0454	NT1022062332.D	SKF0270-CCV1		1		9.11	155063		11.60	504423		15.22	286127		18.27	410398		23.34	115467		26.03	88962		24.40	249026

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20220623.b

ARI Job No.: SKF0 Method: DFTPP8270E.m Instrument: nt10.i Date: 23-JUN-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0900	NT1022062301.D	SKF0270-TUN1		1	NO MANUAL INTEGRATION
0916	NT1022062302.D	SKF0270-CAL5		1	2,4-Dinitrophenol,
0954	NT1022062303.D	SKF0270-CAL7		1	Benzoic acid, 2,4-Dinitrophenol,
1033	NT1022062304.D	SKF0270-CAL1		1	Benzoic acid,
1111	NT1022062305.D	SKF0270-CAL6		1	2,4-Dinitrophenol,
1150	NT1022062306.D	SKF0270-CAL2		1	Benzoic acid,
1229	NT1022062307.D	SKF0270-CAL4		1	2,4-Dinitrophenol,
1307	NT1022062308.D	SKF0270-CAL3		1	2,4-Dinitrophenol,
1346	NT1022062309.D	SKF0270-SIM.1		1	NO MANUAL INTEGRATION
1425	NT1022062310.D	SKF0270-SIM.05		1	NO MANUAL INTEGRATION
1520	NT1022062311.D	SKF0270-SCV1		1	NO MANUAL INTEGRATION
1559	NT1022062312.D	SKF0270-ICB1		1	NO MANUAL INTEGRATION
1638	NT1022062313.D	SKF0270-ICV1		1	Pentachlorophenol,
1716	NT1022062314.D	SKF0270-ICV1		1	NO MANUAL INTEGRATION
1755	NT1022062315.D	BKF0257-BLK1		1	NO MANUAL INTEGRATION
1834	NT1022062316.D	BKF0257-BS1		1	NO MANUAL INTEGRATION
1913	NT1022062317.D	BKF0257-BSD1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20220623.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1952	NT1022062318.D	BKF0257-SRM1		1	NO MANUAL INTEGRATION
2031	NT1022062319.D	22F0092-15		1	NO MANUAL INTEGRATION
2110	NT1022062320.D	BKF0257-MS1		1	NO MANUAL INTEGRATION
2149	NT1022062321.D	BKF0257-MSD1		1	NO MANUAL INTEGRATION
2227	NT1022062322.D	22F0092-16		1	NO MANUAL INTEGRATION
2306	NT1022062323.D	22F0092-18		1	Benzo(k)fluoranthene,
2345	NT1022062324.D	22F0092-24		1	Dibenzo(a,h)anthracene,
0023	NT1022062325.D	22F0092-25		1	NO MANUAL INTEGRATION
0102	NT1022062326.D	22F0151-01		1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene,
0141	NT1022062327.D	22F0151-02		1	Dibenzo(a,h)anthracene,
0219	NT1022062328.D	22D0147-02RE1		20	Benzo(k)fluoranthene,
0258	NT1022062329.D	22D0147-03RE1		20	NO MANUAL INTEGRATION
0336	NT1022062330.D	22D0147-04RE1		50	Anthracene, Diberzo(a,h)anthracene, Benzo(g,h,i)perylene,
0415	NT1022062331.D	22E0353-05RE1		1	Benzo(a)anthracene, Benzo(k)fluoranthene,
0454	NT1022062332.D	SKF0270-CCV1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 25-Jun-2022 13:55

NT1022062301.D	Data Locked	yev, 25-
NT1022062302.D	Data Locked	yev, 25-
NT1022062303.D	Data Locked	yev, 25-
NT1022062304.D	Data Locked	yev, 25-
NT1022062305.D	Data Locked	yev, 25-
NT1022062306.D	Data Locked	yev, 25-
NT1022062307.D	Data Locked	yev, 25-
NT1022062308.D	Data Locked	yev, 25-
NT1022062309.D	Data Locked	yev, 25-
NT1022062310.D	Data Locked	yev, 25-
NT1022062311.D	Data Locked	yev, 25-
NT1022062312.D	Data Locked	yev, 25-
NT1022062313.D	Data Locked	yev, 25-
NT1022062314.D	Data Locked	yev, 25-
NT1022062315.D	Data Locked	yev, 25-
NT1022062316.D	Data Locked	yev, 25-
NT1022062317.D	Data Locked	yev, 25-
NT1022062318.D	Data Locked	yev, 25-
NT1022062319.D	Data Locked	yev, 25-
NT1022062320.D	Data Locked	yev, 25-
NT1022062321.D	Data Locked	yev, 25-
NT1022062322.D	Data Locked	yev, 25-
NT1022062323.D	Data Locked	yev, 25-
NT1022062324.D	Data Locked	yev, 25-
NT1022062325.D	Data Locked	yev, 25-
NT1022062326.D	Data Locked	yev, 25-
NT1022062327.D	Data Locked	yev, 25-
NT1022062328.D	Data Locked	yev, 25-
NT1022062329.D	Data Locked	yev, 25-
NT1022062330.D	Data Locked	yev, 25-
NT1022062331.D	Data Locked	yev, 25-
NT1022062332.D	Data Locked	yev, 25-
NT1022062333.D	Data Locked	yev, 25-

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20220623.b
Inst ID: nt10.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: NT1022062302 NT1022062303 NT1022062304 NT1022062305 NT1022062306 NT1022062307 NT1022062308
INJ. DATE: 23-JUN-2022 23-JUN-2022 23-JUN-2022 23-JUN-2022 23-JUN-2022 23-JUN-2022 23-JUN-2022
INJ. TIME: 09:16 09:54 10:33 11:11 11:50 12:29 13:07

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

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20220623.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.281	44.281-50.281	+++++	+++++
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.387	40.387-46.387	+++++	+++++
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.989	47.989-53.989	+++++	+++++
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	67.733	64.733-70.733	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.067	62.067-68.067	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.917	46.917-52.917	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.672	13.672-19.672	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.317	36.317-42.317	+++++	+++++
137 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.445	0.000-5.445	+++++	+++++
* 134 Di-n-octylphthalate-d4	24.469	24.485	24.477	24.477	24.477	24.477	24.477	24.477	21.477-27.477	24.477	0.004
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.668	12.668-18.668	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.450	62.450-68.450	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	64.400	61.400-67.400	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	62.100	59.100-65.100	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.912	51.912-57.912	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.212	51.212-57.212	+++++	+++++
127 2-Isopropylaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.498	8.498-14.498	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m

Batch File: \\target\share\chem3\nt10.i\20220623.b

Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.617	47.617-53.617	+++++	+++++
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.686	7.686-13.686	+++++	+++++
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.467	40.467-46.467	+++++	+++++
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.697	0.000-5.697	+++++	+++++
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.500	51.500-57.500	+++++	+++++
120 2,3,4,6-Tetrachlorophe	15.975	15.983	15.975	15.975	15.968	15.975	15.968	15.968	12.968-18.968	15.974	0.005
178 2-Benzyl-4-Chloropheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.963	15.963-21.963	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.069	44.069-50.069	+++++	+++++
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.215	18.215-24.215	+++++	+++++
117 Butyl Diphenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.057	14.057-20.057	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.747	15.747-21.747	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.049	14.049-20.049	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.341	11.341-17.341	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.632	11.632-17.632	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	16.670	16.678	16.663	16.670	16.663	16.670	16.663	16.663	13.663-19.663	16.668	0.006
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.366	14.366-20.366	+++++	+++++
109 3,4,5-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.070	12.070-18.070	+++++	+++++
181 3,4,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.232	12.232-18.232	+++++	+++++
108 4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.374	13.374-19.374	+++++	+++++
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.208	10.208-16.208	+++++	+++++
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.160	11.160-17.160	+++++	+++++
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.160	11.160-17.160	+++++	+++++
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.737	8.737-14.737	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20220623.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.227	6.227-12.227	+++++	+++++
105 1-methylnaphthalene	13.268	13.275	13.268	13.268	13.268	13.267	13.260	13.260	10.260-16.260	13.268	0.004
151 1,2,4,5-Tetrachloroben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.499	8.499-14.499	+++++	+++++
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.781	24.781-30.781	+++++	+++++
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.082	23.082-29.082	+++++	+++++
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	28.270	25.270-31.270	+++++	+++++
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.586	23.586-29.586	+++++	+++++
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.276	24.276-30.276	+++++	+++++
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.503	21.503-27.503	+++++	+++++
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.261	22.261-28.261	+++++	+++++
160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.528	16.528-22.528	+++++	+++++
161 1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
162 1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
163 1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
164 1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
165 1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
167 2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
2 Phenol-d5	8.483	8.490	8.475	8.483	8.475	8.475	8.475	8.475	5.475-11.475	8.480	0.006
3 Phenol	8.498	8.514	8.498	8.506	8.498	8.498	8.498	8.498	5.498-11.498	8.502	0.006
4 Bis(2-Chloroethyl)ethe	8.653	8.660	8.645	8.653	8.645	8.653	8.645	8.645	5.645-11.645	8.651	0.006
5 2-Chlorophenol-d4	8.746	8.761	8.745	8.753	8.745	8.745	8.745	8.745	5.745-11.745	8.749	0.006

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20220623.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
6 2-Chlorophenol	8.776	8.784	8.776	8.776	8.776	8.776	8.776	8.776	5.776-11.776	8.777	0.003
7 1,3-Dichlorobenzene	9.040	9.047	9.039	9.040	9.039	9.047	9.040	9.040	6.040-12.040	9.042	0.004
* 8 1,4-Dichlorobenzene-d4	9.109	9.109	9.109	9.109	9.109	9.109	9.102	9.102	6.102-12.102	9.108	0.003
9 1,4-Dichlorobenzene	9.140	9.140	9.140	9.140	9.140	9.140	9.133	9.133	6.133-12.133	9.139	0.003
\$ 10 1,2-Dichlorobenzene-d4	9.466	9.474	9.466	9.466	9.466	9.466	9.466	9.466	6.466-12.466	9.467	0.003
11 Benzyl alcohol	9.373	9.388	9.381	9.381	9.381	9.381	9.373	9.373	6.373-12.373	9.380	0.005
12 1,2-Dichlorobenzene	9.497	9.497	9.497	9.497	9.490	9.497	9.490	9.490	6.490-12.490	9.495	0.004
13 2-Methylphenol	9.614	9.621	9.614	9.614	9.614	9.614	9.606	9.606	6.606-12.606	9.614	0.004
14 2,2'-oxybis(1-Chloropr	9.676	9.684	9.676	9.676	9.676	9.676	9.676	9.676	6.676-12.676	9.677	0.003
15 4-Methylphenol	9.878	9.893	9.885	9.886	9.878	9.878	9.878	9.878	6.878-12.878	9.882	0.006
16 N-Nitroso-di-n-propyla	9.932	9.947	9.932	9.940	9.932	9.932	9.924	9.924	6.924-12.924	9.934	0.007
17 Hexachloroethane	10.087	10.087	10.087	10.087	10.087	10.087	10.087	10.087	7.087-13.087	10.087	0.000
\$ 18 Nitrobenzene-d5	10.204	10.211	10.196	10.204	10.196	10.204	10.196	10.196	7.196-13.196	10.201	0.006
19 Nitrobenzene	10.235	10.250	10.235	10.235	10.235	10.235	10.235	10.235	7.235-13.235	10.237	0.006
20 Isophorone	10.685	10.708	10.677	10.685	10.677	10.685	10.677	10.677	7.677-13.677	10.685	0.011
21 2-Nitrophenol	10.868	10.877	10.868	10.868	10.868	10.868	10.868	10.868	7.868-13.868	10.870	0.003
22 2,4-Dimethylphenol	10.928	10.945	10.928	10.928	10.928	10.928	10.928	10.928	7.928-13.928	10.930	0.006
23 Bis(2-Chloroethoxy)met	11.115	11.123	11.114	11.115	11.114	11.114	11.114	11.114	8.114-14.114	11.116	0.003
24 Benzoic acid	11.149	11.293	11.055	11.208	11.047	11.097	11.064	11.064	8.064-14.064	11.130	0.092
25 2,4-Dichlorophenol	11.335	11.343	11.327	11.335	11.327	11.335	11.327	11.327	8.327-14.327	11.333	0.006
26 1,2,4-Trichlorobenzene	11.512	11.519	11.512	11.512	11.512	11.512	11.512	11.512	8.512-14.512	11.513	0.003
* 27 Naphthalene-d8	11.597	11.604	11.597	11.597	11.597	11.597	11.597	11.597	8.597-14.597	11.598	0.003
28 Naphthalene	11.643	11.651	11.635	11.643	11.635	11.643	11.635	11.635	8.635-14.635	11.641	0.006
29 4-Chloroaniline	11.774	11.782	11.767	11.774	11.767	11.774	11.767	11.767	8.767-14.767	11.772	0.006

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20220623.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
30 Hexachlorobutadiene	11.999	12.006	11.998	11.998	11.998	12.006	11.998	11.998	8.998-14.998	12.001	0.004
31 4-Chloro-3-methylpheno	12.749	12.757	12.749	12.749	12.749	12.749	12.749	12.749	9.749-15.749	12.750	0.003
32 2-Methylnaphthalene	13.043	13.051	13.043	13.043	13.043	13.043	13.043	13.043	10.043-16.043	13.044	0.003
33 Hexachlorocyclopentadi	13.508	13.515	13.507	13.508	13.507	13.515	13.508	13.508	10.508-16.508	13.510	0.004
34 2,4,6-Trichlorophenol	13.678	13.678	13.670	13.678	13.670	13.670	13.670	13.670	10.670-16.670	13.673	0.004
35 2,4,5-Trichlorophenol	13.755	13.763	13.755	13.755	13.747	13.755	13.747	13.747	10.747-16.747	13.754	0.005
36 2-Fluorobiphenyl	13.825	13.832	13.825	13.833	13.825	13.832	13.825	13.825	10.825-16.825	13.828	0.004
37 2-Chloronaphthalene	14.042	14.049	14.041	14.042	14.041	14.041	14.034	14.034	11.034-17.034	14.041	0.004
38 2-Nitroaniline	14.297	14.320	14.305	14.305	14.297	14.297	14.297	14.297	11.297-17.297	14.302	0.009
39 Dimethylphthalate	14.730	14.746	14.730	14.730	14.730	14.730	14.730	14.730	11.730-17.730	14.733	0.006
40 Acenaphthylene	14.916	14.924	14.916	14.916	14.916	14.916	14.908	14.908	11.908-17.908	14.916	0.004
41 2,6-Dinitrotoluene	14.878	14.893	14.877	14.878	14.870	14.877	14.870	14.870	11.870-17.870	14.877	0.008
42 Acenaphthene-d10	15.233	15.241	15.233	15.233	15.225	15.233	15.226	15.226	12.226-18.226	15.232	0.005
43 3-Nitroaniline	15.164	15.179	15.164	15.171	15.156	15.156	15.156	15.156	12.156-18.156	15.164	0.009
44 Acenaphthene	15.303	15.310	15.303	15.303	15.295	15.303	15.295	15.295	12.295-18.295	15.302	0.005
45 2,4-Dinitrophenol	15.380	15.403	++++	15.388	15.372	15.380	15.372	15.372	12.372-18.372	15.383	0.012
46 Dibenzofuran	15.628	15.643	15.627	15.635	15.627	15.627	15.627	15.627	12.627-18.627	15.631	0.006
47 4-Nitrophenol	15.504	15.527	15.535	15.512	15.519	15.511	15.504	15.504	12.504-18.504	15.516	0.012
48 2,4-Dinitrotoluene	15.689	15.712	15.689	15.697	15.682	15.689	15.682	15.682	12.682-18.682	15.691	0.011
49 Fluorene	16.347	16.362	16.346	16.347	16.346	16.346	16.339	16.339	13.339-19.339	16.348	0.007
50 Diethylphthalate	16.200	16.223	16.200	16.207	16.192	16.199	16.192	16.192	13.192-19.192	16.202	0.011
51 4-Chlorophenyl-phenyle	16.339	16.346	16.339	16.339	16.331	16.339	16.331	16.331	13.331-19.331	16.338	0.005
52 4-Nitroaniline	16.439	16.477	16.439	16.447	16.431	16.431	16.424	16.424	13.424-19.424	16.441	0.018
53 4,6-Dinitro-2-methylph	16.539	16.570	16.539	16.547	16.532	16.539	16.532	16.532	13.532-19.532	16.543	0.013

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
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Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
54 N-Nitrosodiphenylamine	16.593	16.609	16.586	16.593	16.586	16.593	16.586	16.586	13.586-19.586	16.592	0.008
\$ 55 2,4,6-Tribromophenol	16.886	16.894	16.886	16.894	16.886	16.886	16.886	16.886	13.886-19.886	16.888	0.004
56 4-Bromophenyl-phenylet	17.349	17.356	17.349	17.349	17.349	17.349	17.349	17.349	14.349-20.349	17.350	0.003
57 Hexachlorobenzene	17.666	17.673	17.666	17.674	17.666	17.673	17.666	17.666	14.666-20.666	17.669	0.004
58 Pentachlorophenol	18.030	18.037	18.038	18.038	18.037	18.037	18.038	18.038	15.038-21.038	18.036	0.003
* 59 Phenanthrene-d10	18.293	18.300	18.293	18.301	18.293	18.293	18.293	18.293	15.293-21.293	18.295	0.004
60 Phenanthrene	18.339	18.355	18.339	18.347	18.339	18.347	18.339	18.339	15.339-21.339	18.344	0.006
61 Anthracene	18.432	18.447	18.440	18.440	18.432	18.440	18.432	18.432	15.432-21.432	18.438	0.006
62 Carbazole	18.773	18.780	18.773	18.773	18.772	18.772	18.773	18.773	15.773-21.773	18.774	0.003
63 Di-n-butylphthalate	19.577	19.585	19.577	19.585	19.577	19.577	19.577	19.577	16.577-22.577	19.579	0.004
64 Fluoranthene	20.753	20.761	20.753	20.753	20.745	20.753	20.753	20.753	17.753-23.753	20.753	0.004
65 Pyrene	21.179	21.194	21.186	21.187	21.179	21.179	21.179	21.179	18.179-24.179	21.183	0.006
\$ 66 Terphenyl-d14	21.473	21.480	21.473	21.473	21.473	21.473	21.473	21.473	18.473-24.473	21.474	0.003
67 Butylbenzylphthalate	22.410	22.417	22.410	22.410	22.410	22.417	22.410	22.410	19.410-25.410	22.412	0.004
68 Benzo(a)anthracene	23.370	23.385	23.370	23.378	23.370	23.377	23.370	23.370	20.370-26.370	23.374	0.006
* 69 Chrysene-d12	23.401	23.408	23.401	23.401	23.393	23.401	23.401	23.401	20.401-26.401	23.401	0.004
70 3,3'-Dichlorobenzidine	23.331	23.339	23.323	23.331	23.323	23.331	23.323	23.323	20.323-26.323	23.329	0.006
71 Chrysene	23.447	23.463	23.447	23.455	23.439	23.447	23.447	23.447	20.447-26.447	23.449	0.007
72 bis(2-Ethylhexyl)phtha	23.455	23.463	23.463	23.463	23.463	23.463	23.455	23.455	20.455-26.455	23.461	0.004
73 Di-n-octylphthalate	24.485	24.492	24.485	24.492	24.485	24.492	24.485	24.485	21.485-27.485	24.488	0.004
74 Benzo(b)fluoranthene	25.321	25.336	25.321	25.329	25.313	25.321	25.313	25.313	22.313-28.313	25.322	0.008
75 Benzo(k)fluoranthene	25.367	25.383	25.367	25.375	25.359	25.367	25.359	25.359	22.359-28.359	25.368	0.008
187 Total Benzofluoranthen	25.321	25.383	25.321	25.329	25.313	25.321	25.359	25.359	22.359-28.359	25.335	0.026
76 Benzo(a)pyrene	26.002	26.018	26.002	26.010	25.994	26.010	25.994	25.994	22.994-28.994	26.004	0.009

ARI Labs, Inc.
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Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m

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Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 77 Perylene-d12	26.126	26.126	26.126	26.126	26.118	26.126	26.118	26.118	23.118-29.118	26.124	0.004
78 Indeno(1,2,3-cd)pyrene	28.923	28.962	28.923	28.939	28.923	28.923	28.916	28.916	25.916-31.916	28.930	0.016
79 Dibenzo(a,h)anthracene	28.939	28.978	28.947	28.954	28.931	28.939	28.931	28.931	25.931-31.931	28.945	0.016
80 Benzo(g,h,i)perylene	29.747	29.793	29.747	29.770	29.739	29.754	29.739	29.739	26.739-32.739	29.756	0.020
\$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	51.633	48.633-54.633	+++++	+++++
\$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	63.533	60.533-66.533	+++++	+++++
\$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	60.273	57.273-63.273	+++++	+++++
\$ 88 Dibenzo(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
\$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
90 N-Nitrosodimethylamine	4.698	4.720	4.705	4.713	4.705	4.705	4.697	4.697	1.697-7.697	4.706	0.008
91 Aniline	8.560	8.575	8.560	8.568	8.560	8.560	8.560	8.560	5.560-11.560	8.563	0.006
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
93 Benzidine	20.985	20.993	20.993	20.993	20.985	20.993	20.985	20.985	17.985-23.985	20.990	0.004
\$ 95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.075	49.075-55.075	+++++	+++++
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.250	46.250-52.250	+++++	+++++
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	61.202	58.202-64.202	+++++	+++++
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.248	15.248-21.248	+++++	+++++
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.866	22.866-28.866	+++++	+++++
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.411	22.411-28.411	+++++	+++++
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.023	23.023-29.023	+++++	+++++
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	79.550	76.550-82.550	+++++	+++++
103 Pyridine	4.713	4.720	4.736	4.721	4.736	4.728	4.728	4.728	1.728-7.728	4.726	0.009
188 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.874	8.874-14.874	+++++	+++++
189 N-Nitrosomethylethylam	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.818	2.818-8.818	+++++	+++++

ARI Labs, Inc.

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Start Cal Date : 23-JUN-2022 09:16
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 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Last Edit : 24-Jun-2022 08:19 yev

Calibration File Names:

Level 1: \\target\share\chem3\nt10.i\20220623.b\NT1022062304.D
 Level 2: \\target\share\chem3\nt10.i\20220623.b\NT1022062306.D
 Level 3: \\target\share\chem3\nt10.i\20220623.b\NT1022062308.D
 Level 4: \\target\share\chem3\nt10.i\20220623.b\NT1022062307.D
 Level 5: \\target\share\chem3\nt10.i\20220623.b\NT1022062302.D
 Level 6: \\target\share\chem3\nt10.i\20220623.b\NT1022062305.D
 Level 7: \\target\share\chem3\nt10.i\20220623.b\NT1022062303.D

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

ARI Labs, Inc.

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

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

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

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

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

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG	0.000e+000			0.000e+000 <-
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG	0.000e+000			0.000e+000 <-
120 2,3,4,6-Tetrachlorophenol	2522	7918	17778	59028	115642	232972					
	375954						QUAD	0.000e+000	2.82915	0.08883	0.99875
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG	0.000e+000			0.000e+000 <-
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG	0.000e+000			0.000e+000 <-
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG	0.000e+000			0.000e+000 <-
117 Butyl Diphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG	0.000e+000			0.000e+000 <-

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
116 Dibutyl Phenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000<-
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000<-
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000<-
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000<-
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000<-
111 Azobenzene (1,2-DP-Hydrazine)	1.67621	1.66064	1.59575	1.61792	1.58548	1.53055					
	1.51619						AVRG		1.59754		3.77656
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000<-

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

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000 <-
105 1-methylnaphthalene	0.86419	0.88348	0.89566	1.02481	1.07556	1.10880					
	1.14462						AVRG		0.99959		11.69395
151 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000 <-
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000 <-
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000 <-
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000 <-
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000 <-

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

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
163 1,2,3,5,8-Pentachloronaphthal	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000 <-
164 1,2,3,4,6,7-Hexachloronaphtha	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000 <-
165 1,2,3,4,5,6,7-Heptachloronaph	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000 <-
166 Octachloronaphthalene	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000 <-
167 2,2',4,4',5-Pentabromobipheny	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000 <-
3 Phenol	1.96821	1.91090	1.89229	1.98347	1.90027	1.83547					
	1.72884						AVRG		1.88849		4.55172
4 Bis(2-Chloroethyl)ether	1.53664	1.36688	1.41359	1.36328	1.31534	1.26138					
	1.25674						AVRG		1.35912		7.14049

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
6 2-Chlorophenol	1.59884	1.51734	1.50909	1.49163	1.47871	1.43330					
	1.51009						AVRG		1.50557		3.32195
7 1,3-Dichlorobenzene	1.80398	1.74222	1.67697	1.64465	1.57390	1.51033					
	1.44685						AVRG		1.62841		7.77889
9 1,4-Dichlorobenzene	1.30774	1.28040	1.24358	1.30938	1.31465	1.26905					
	1.26045						AVRG		1.28361		2.15026
11 Benzyl alcohol	0.65494	0.64230	0.71340	0.78306	0.83417	0.82665					
	0.81155						AVRG		0.75230		10.82341
12 1,2-Dichlorobenzene	1.47824	1.38256	1.36501	1.38229	1.35675	1.29756					
	1.27619						AVRG		1.36266		4.82128
13 2-Methylphenol	1.19383	1.18518	1.15296	1.16005	1.18343	1.17976					
	1.09538						AVRG		1.16437		2.89315
14 2,2'-oxybis(1-Chloropropane)	0.33993	0.32674	0.33192	0.31337	0.31868	0.30868					
	0.31646						AVRG		0.32225		3.43545

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
15 4-Methylphenol	1.23754	1.25542	1.23988	1.27541	1.26300	1.25664					
	1.18254						AVRG		1.24435		2.42699
16 N-Nitroso-di-n-propylamine	0.90125	0.84084	0.79656	0.83055	0.79128	0.76711					
	0.74090						AVRG		0.80978		6.54321
17 Hexachloroethane	0.56454	0.55837	0.54385	0.56474	0.58078	0.59214					
	0.60094						AVRG		0.57219		3.50024
19 Nitrobenzene	0.44963	0.41815	0.39953	0.42525	0.44760	0.42735					
	0.43540						AVRG		0.42899		4.05529
20 Isophorone	0.54447	0.53230	0.53361	0.63163	0.67969	0.69272					
	0.72964						AVRG		0.62058		13.45996
21 2-Nitrophenol	0.23595	0.23533	0.26759	0.28727	0.28530	0.29192					
	0.29337						AVRG		0.27096		9.43225
22 2,4-Dimethylphenol	+++++	0.34627	0.33944	0.35201	0.33354	0.30895					
	0.29477						AVRG		0.32916		6.83512

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
23 Bis(2-Chloroethoxy)methane	0.44260	0.39955	0.37264	0.34534	0.34085	0.34669					
	0.36223						AVRG		0.37284		9.88865
24 Benzoic acid	++++	16272	41871	175321	448309	827687					
	1516010						QUAD	0.000e+000	5.90056	-0.24906	0.99848
25 2,4-Dichlorophenol	++++	0.33169	0.32940	0.35445	0.34890	0.33521					
	0.30758						AVRG		0.33454		4.93775
26 1,2,4-Trichlorobenzene	0.41198	0.38263	0.35904	0.35110	0.34396	0.30581					
	++++						AVRG		0.35909		10.02714
28 Naphthalene	0.97056	0.94786	0.94617	1.01707	1.07268	1.08303					
	1.12870						AVRG		1.02372		7.08602
29 4-Chloroaniline	++++	0.36008	0.39533	0.44309	0.48885	0.49595					
	0.52886						AVRG		0.45203		14.31565
30 Hexachlorobutadiene	0.17764	0.16863	0.16589	0.17914	0.18190	0.16407					
	0.16188						AVRG		0.17131		4.71586

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	Coefficients			%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	20.0000										
	Level 7										
31 4-Chloro-3-methylphenol	+++++ 1648645	45423	90206	258509	495209	937972	QUAD	0.000e+000	2.53921	-0.06613	0.99979
32 2-Methylnaphthalene	0.86196 1.20352	0.88579	0.88533	1.03704	1.10951	1.13891	AVRG		1.01744		13.73663
33 Hexachlorocyclopentadiene	+++++ 752915	2609	11058	58265	148627	360503	QUAD	0.000e+000	4.38799	-0.42165	0.99698
34 2,4,6-Trichlorophenol	+++++ 0.49083	0.36479	0.38695	0.46823	0.51282	0.50403	AVRG		0.45461		13.90240
35 2,4,5-Trichlorophenol	+++++ 1182965	32038	70179	189477	389418	701825	QUAD	0.000e+000	1.83047	0.01322	0.99960
37 2-Chloronaphthalene	1.55650 1.58619	1.56774	1.52925	1.62421	1.69175	1.61430	AVRG		1.59571		3.35621
38 2-Nitroaniline	+++++ 0.45918	0.35776	0.38253	0.43660	0.46161	0.46335	AVRG		0.42684		10.69387

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
39 Dimethylphthalate	1.57925 1.11617	1.58198	1.48312	1.45155	1.39606	1.21106					
							AVRG		1.40274		12.72037
40 Acenaphthylene	2.53952 1.94909	2.50075	2.56826	2.54738	2.20204	2.06046					
							AVRG		2.33821		11.18966
41 2,6-Dinitrotoluene	++++ 0.31532	0.32837	0.32118	0.33617	0.33643	0.31724					
							AVRG		0.32579		2.85219
43 3-Nitroaniline	++++ 0.41160	0.35277	0.36810	0.39653	0.39173	0.38038					
							AVRG		0.38352		5.49278
44 Acenaphthene	1.07025 1.29187	1.07450	1.07437	1.15705	1.24129	1.23382					
							AVRG		1.16331		8.00852
45 2,4-Dinitrophenol	++++ 850978	2886	13016	74917	209512	431205					
							QUAD	0.000e+000	6.93024	-0.43757	0.99796 <-
46 Dibenzofuran	1.66981 1.91191	1.73653	1.75240	1.90805	2.00257	1.96011					
							AVRG		1.84877		6.89386

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	20.0000										
	Level 7										
47 4-Nitrophenol	++++ 311232	6606	14046	44797	90731	172452	QUAD	0.000e+000	7.99563	-0.56014	0.99963
48 2,4-Dinitrotoluene	++++ 0.45952	0.37555	0.38788	0.44938	0.47807	0.46217	AVRG		0.43543		9.82686
49 Fluorene	2.39897 2.00257	2.37444	2.21843	2.21538	2.19666	2.05708	AVRG		2.20908		6.64871
50 Diethylphthalate	1.22001 1.04900	1.26388	1.23347	1.27297	1.24568	1.13821	AVRG		1.20332		6.74743
51 4-Chlorophenyl-phenylether	1.05163 0.93454	1.01474	0.92465	0.97637	0.96423	0.92457	AVRG		0.97011		5.00004
52 4-Nitroaniline	0.37714 0.42086	0.38098	0.40381	0.31177	0.39296	0.40136	AVRG		0.38413		9.14676
53 4,6-Dinitro-2-methylphenol	++++ 1227039	25336	60131	198043	394977	724363	QUAD	0.000e+000	6.37304	0.04100	0.99957

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
54 N-Nitrosodiphenylamine	0.74310	0.70166	0.67244	0.63711	0.61007	0.52953					
	0.50886						AVRG		0.62897		13.75945
56 4-Bromophenyl-phenylether	0.28756	0.27938	0.28495	0.29543	0.31306	0.29078					
	0.28873						AVRG		0.29141		3.68947
57 Hexachlorobenzene	10648	25122	45982	101607	172171	285662					
	469385						QUAD	0.000e+000	3.55370	0.60524	0.99961
58 Pentachlorophenol	+++++	2044	5380	26726	79388	156587					
	309014						QUAD	0.000e+000	16.71335	-4.93224	0.99770
60 Phenanthrene	1.02586	0.97267	0.97875	1.03284	1.09208	1.08694					
	1.16699						AVRG		1.05088		6.58706
61 Anthracene	1.01592	1.00306	1.03519	1.11696	1.21490	1.19114					
	1.26196						AVRG		1.11988		9.36022
62 Carbazole	0.98523	0.97157	1.03086	1.09523	1.05682	0.97370					
	1.11861						AVRG		1.03315		5.77338

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	20.0000										
	Level 7										
63 Di-n-butylphthalate	40092 3715420	98413	187086	529822	1025442	1927524	QUAD	0.000e+000	0.64704	-0.01179	0.99984
64 Fluoranthene	46853 3863710	115483	219365	582487	1069189	2071939	QUAD	0.000e+000	0.35570	-0.00374	0.99836
65 Pyrene	51909 3487447	113683	228765	558362	871526	1875158	QUAD	0.000e+000	0.40673	-0.00543	0.99978
67 Butylbenzylphthalate	0.79328 0.83471	0.83575	0.67783	0.77559	0.93063	0.80869	AVRG		0.80807		9.41558
68 Benzo(a)anthracene	1.77171 1.69853	1.74589	1.60203	1.67843	1.69079	1.67747	AVRG		1.69498		3.20714
70 3,3'-Dichlorobenzidine	0.57574 0.59063	0.58284	0.55217	0.60204	0.52012	0.44275	AVRG		0.55233		10.04315
71 Chrysene	26170 1762178	52304	123360	253904	373084	899292	QUAD	0.000e+000	0.89289	-0.03258	0.99969

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
72 bis(2-Ethylhexyl)phthalate	0.46316 0.44169	0.42515	0.40155	0.42715	0.49607	0.44012					
							AVRG		0.44213		6.85749
73 Di-n-octylphthalate	0.96629 0.88084	0.89419	0.88895	0.91235	0.91521	0.90628					
							AVRG		0.90916		3.09573
74 Benzo(b)fluoranthene	1.75667 2.05997	1.66025	1.62708	1.74849	1.88547	1.94280					
							AVRG		1.81153		8.67890
75 Benzo(k)fluoranthene	1.63600 1.76357	1.79111	1.74054	1.75954	1.85068	1.65213					
							AVRG		1.74194		4.34113
187 Total Benzofluoranthenes	1.64374 1.83934	1.63147	1.61036	1.67361	1.70135	1.72353					
							AVRG		1.68906		4.56843
76 Benzo(a)pyrene	1.46644 1.68059	1.33980	1.42842	1.48748	1.43593	1.53984					
							AVRG		1.48264		7.19442
78 Indeno(1,2,3-cd)pyrene	1.53355 1.67189	1.57781	1.44694	1.58619	1.69283	1.57202					
							AVRG		1.58304		5.22690

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
79 Dibenzo(a,h)anthracene	1.23268 1.22494	1.25781	1.12184	1.20657	1.27817	1.16109					
							AVRG		1.21187		4.49733
80 Benzo(g,h,i)perylene	1.27305 1.36525	1.17262	1.19316	1.30385	1.27544	1.27462					
							AVRG		1.26543		5.15359
90 N-Nitrosodimethylamine	0.91395 0.94292	0.91455	0.95488	0.98881	0.99603	0.97844					
							AVRG		0.95565		3.53311
91 Aniline	++++ 1.64784	2.13987	2.03121	1.93680	1.83694	1.73997					
							AVRG		1.88877		9.71991
92 1,2-Diphenylhydrazine	++++ ++++	++++	++++	++++	++++	++++					
							AVRG		0.000e+000		0.000e+000 <-
93 Benzidine	++++ 0.48622	0.70886	0.68971	0.66038	0.54878	0.44672					
							AVRG		0.59011		18.87351 <-
96 p-Cymene	++++ ++++	++++	++++	++++	++++	++++					
							AVRG		0.000e+000		0.000e+000 <-

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG	0.000e+000			0.000e+000 <-
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG	0.000e+000			0.000e+000 <-
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG	0.000e+000			0.000e+000 <-
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG	0.000e+000			0.000e+000 <-
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG	0.000e+000			0.000e+000 <-
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG	0.000e+000			0.000e+000 <-
103 Pyridine	2.94543	2.76432	2.73043	2.65029	2.62140	2.54616					
	2.70519						AVRG	2.70903			4.69513

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
188 2,6-Dichlorophenol	++++	++++	++++	++++	++++	++++					
	++++						AVRG	0.000e+000			0.000e+000 <-
189 N-Nitrosomethylethylamine	++++	++++	++++	++++	++++	++++					
	++++						AVRG	0.000e+000			0.000e+000 <-
\$ 1 2-Fluorophenol	1.40265	1.50733	1.48086	1.56222	1.48768	1.42330					
	1.36026						AVRG	1.46062			4.71616
\$ 137 d8-1,4-Dioxane	++++	++++	++++	++++	++++	++++					
	++++						AVRG	0.000e+000			0.000e+000 <-
\$ 2 Phenol-d5	1.77390	1.93915	1.93945	2.29366	2.29602	2.42961					
	2.49886						AVRG	2.16723			12.91429
\$ 5 2-Chlorophenol-d4	1.44747	1.47371	1.42327	1.51230	1.47331	1.59680					
	1.49108						AVRG	1.48828			3.75010
\$ 10 1,2-Dichlorobenzene-d4	0.90174	0.90976	0.90276	0.95988	0.91733	0.92102					
	0.90706						AVRG	0.91708			2.19975

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
\$ 18 Nitrobenzene-d5	0.39592	0.40968	0.40452	0.44404	0.44356	0.44114					
	0.44051						AVRG		0.42562		4.98841
\$ 36 2-Fluorobiphenyl	1.69711	1.83207	1.79458	1.94320	1.89024	1.81582					
	1.69777						AVRG		1.81011		5.05727
\$ 55 2,4,6-Tribromophenol	3145	7895	18510	51241	98411	179842					
	318978						QUAD	0.000e+000	5.54833	-0.18260	0.99984
\$ 66 Terphenyl-d14	1.31725	1.44351	1.29329	1.41255	1.54978	1.35893					
	++++						AVRG		1.39588		6.74359
\$ 85 p-Cresol-d4	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000 <-
\$ 86 Anthracene-d10	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000 <-
\$ 87 Fluoranthene-d10	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000 <-

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

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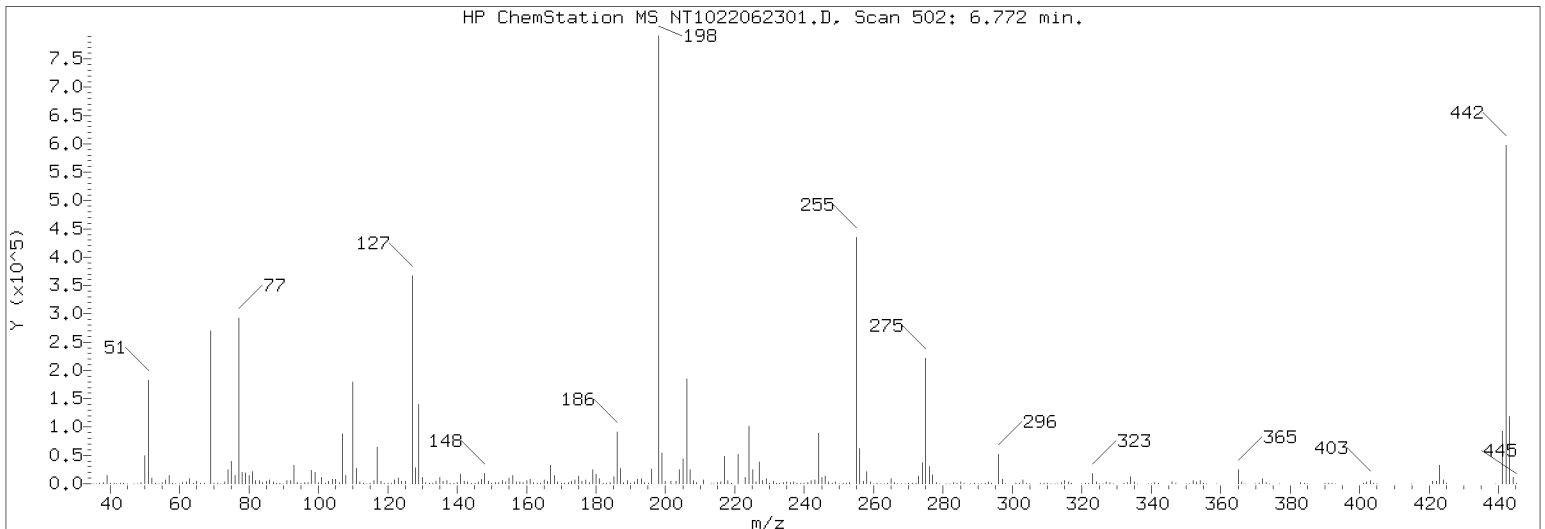
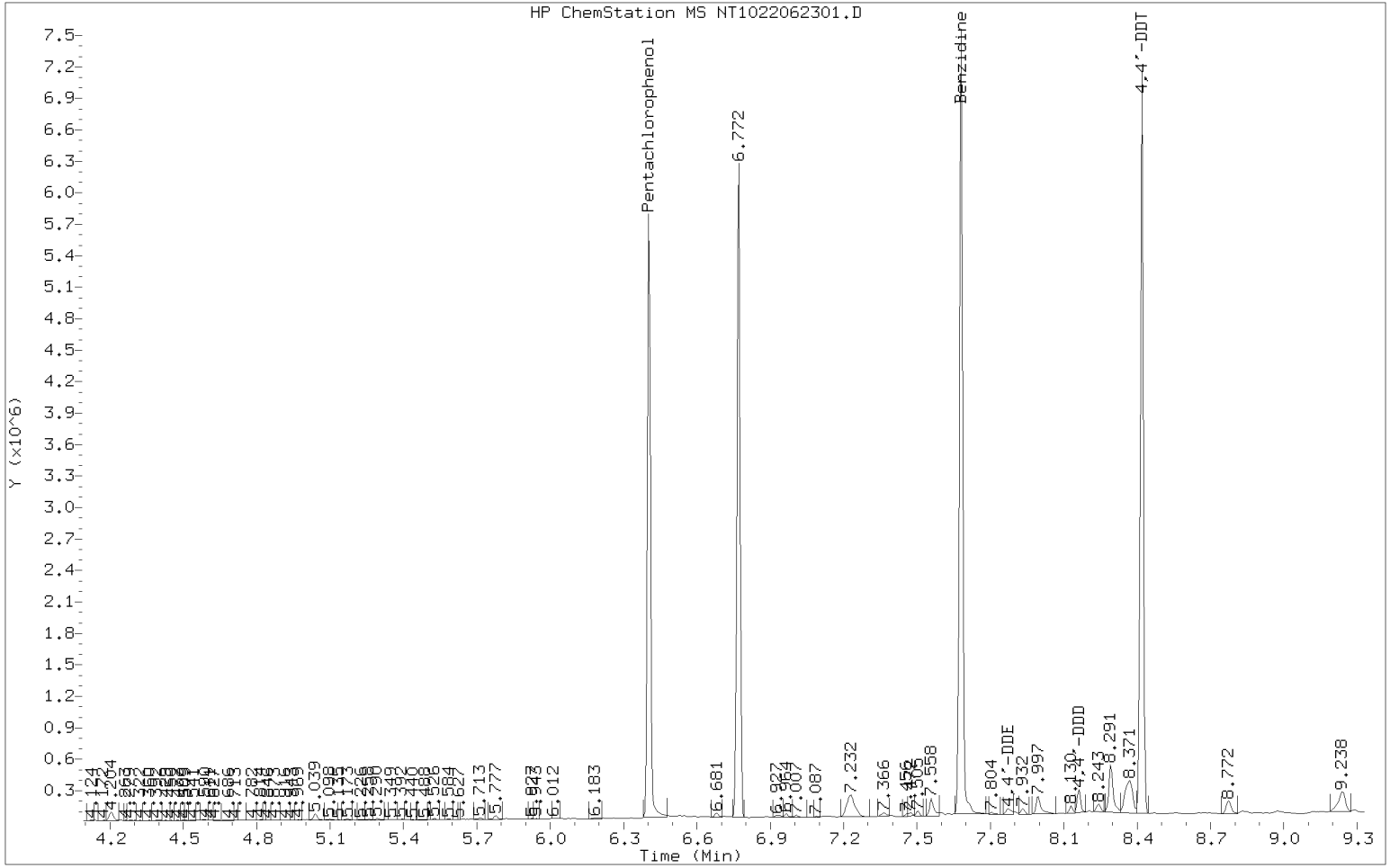
INITIAL CALIBRATION DATA

Start Cal Date : 23-JUN-2022 09:16
End Cal Date : 23-JUN-2022 13:07
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20220623.b\ABN.m
Last Edit : 24-Jun-2022 08:19 yev

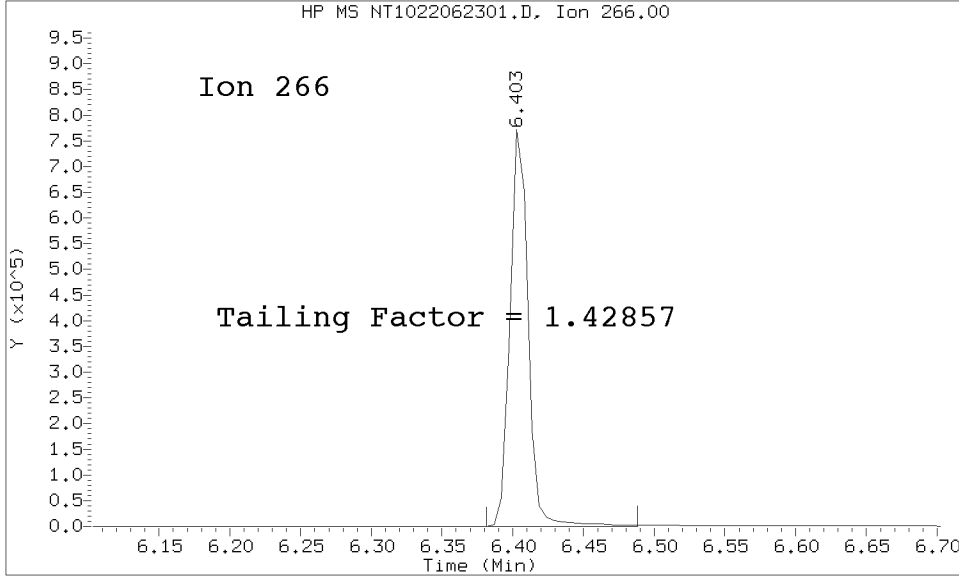
Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20220623.b/NT1022062301.D/NT1022062301.D
Method Used: \20220623.b\DFTPP8270E.m Inst: nt10
Injection Date: 23-JUN-2022 09:00 Operator: VTS
Sample Info: SKF0270-TUN1 SKF0270-TUN1
Report Date: 06/25/2022 13:34



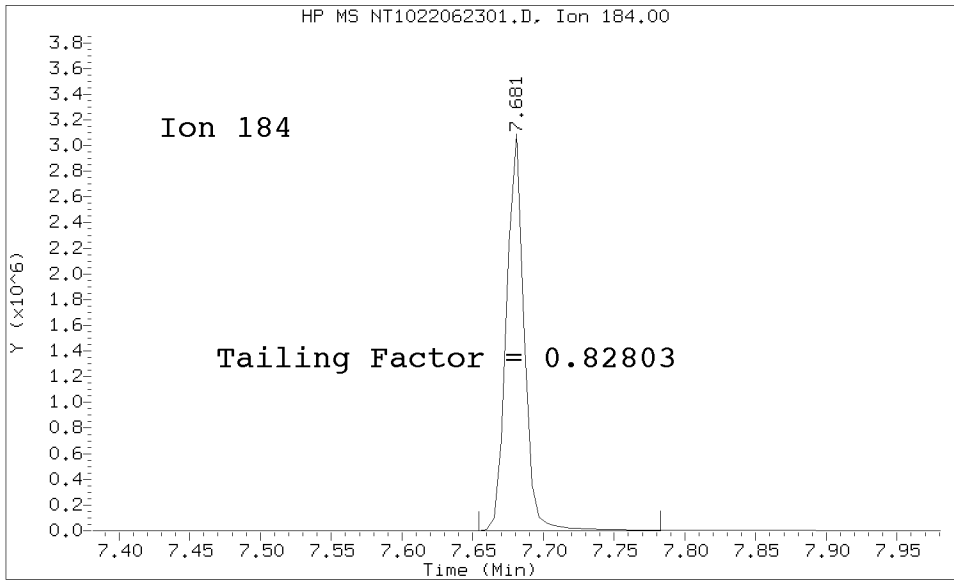
Datafile Analyzed: /20220623.b/NT1022062301.D/NT1022062301.D
Method Used: \20220623.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 23-JUN-2022 09:00 Operator: VTS
Sample Info: SKF0270-TUN1
Report Date: 06/25/2022 13:34



Pentachlorophenol

=====
Exp. RT = 6.435
Found RT = 6.403

Tail Factor = 1.429 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.702
Found RT = 7.681

Tail Factor = 0.828 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.4285714	2.000	PASS
Benzidine	0.8280330	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1182642			N/A
4,4-DDE	5705	0.5	20.0	PASS
4,4-DDD	38995	3.2	20.0	PASS
4,4-DDD + DDE	44700	3.6	20.0	PASS

Tuning Sample, nt10.i/20220623.b/NT1022062301.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	36.19
70	Less than 2.00% of mass 69	0.16 (0.46)
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.81
365	1.00 - 100.00% of mass 198	2.96
441	Less than 150.00% of mass 443	10.90 (79.67)
442	Less than 200.00% of mass 198	70.70
443	15.00 - 24.00% of mass 442	13.68 (19.35)

Data File: NT1022062301.D
 Spectrum: Avg. Scans 501-503 (6.77), Background Scan 496
 Location of Maximum: 198.00
 Number of points: 330

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	62	123.00	7738	209.00	1261	297.00	5636
36.00	115	124.00	3396	211.00	5743	298.00	375
37.00	733	125.00	3146	213.00	463	301.00	557
38.00	2308	127.00	300096	214.00	162	302.00	822
39.00	11563	128.00	22848	215.00	1533	303.00	4793
40.00	486	129.00	112944	216.00	3096	304.00	1156
41.00	123	130.00	9319	217.00	38504	305.00	187
42.00	54	131.00	1845	218.00	4869	308.00	599
43.00	177	132.00	940	219.00	523	309.00	476
44.00	54	133.00	264	221.00	40304	310.00	622
45.00	259	134.00	3184	223.00	8762	311.00	109
48.00	191	135.00	8661	224.00	78720	312.00	154
49.00	1202	136.00	3473	225.00	20216	313.00	398
50.00	41368	137.00	4097	226.00	2234	314.00	2017
51.00	151168	138.00	1063	227.00	30096	315.00	4575
52.00	8034	139.00	476	228.00	4651	316.00	2679
53.00	256	140.00	1511	229.00	6829	317.00	565
55.00	786	141.00	13167	230.00	1062	320.00	163
56.00	5149	142.00	4109	231.00	3104	321.00	1261
57.00	11468	143.00	3013	232.00	623	322.00	854
58.00	402	144.00	888	233.00	585	323.00	13460
59.00	142	145.00	451	234.00	1999	324.00	2430
60.00	111	146.00	2575	235.00	2357	325.00	290
61.00	2108	147.00	6522	236.00	1571	326.00	372
62.00	2604	148.00	14464	237.00	2751	327.00	2546
63.00	7988	149.00	3091	238.00	435	328.00	1371
64.00	1098	150.00	883	239.00	1431	329.00	227
65.00	3878	151.00	1835	240.00	1067	332.00	969
66.00	99	152.00	1144	241.00	2014	333.00	1351
67.00	329	153.00	4014	242.00	4585	334.00	8586
69.00	221952	154.00	3005	243.00	5099	335.00	2264
70.00	1011	155.00	7646	244.00	68824	336.00	263
71.00	345	156.00	10897	245.00	9200	339.00	238
72.00	142	157.00	2360	246.00	10801	340.00	277
73.00	1623	158.00	2392	247.00	2480	341.00	1580
74.00	20920	159.00	2149	248.00	608	342.00	425
75.00	33192	160.00	4284	249.00	2522	346.00	3026
76.00	11814	161.00	6136	250.00	443	347.00	511
77.00	242048	162.00	1868	251.00	558	350.00	69
78.00	16592	163.00	443	252.00	527	351.00	236
79.00	15265	164.00	1021	253.00	1130	352.00	4088
80.00	11913	165.00	4803	255.00	334464	353.00	2761
81.00	17040	166.00	3799	256.00	47528	354.00	4163
82.00	4106	167.00	25552	257.00	3638	355.00	832
83.00	3883	168.00	12023	258.00	16736	356.00	78
84.00	165	169.00	2216	259.00	2796	359.00	309
85.00	3032	170.00	1066	260.00	537	364.00	106
86.00	4569	171.00	1271	261.00	639	365.00	18136
87.00	2513	172.00	2314	262.00	71	366.00	2770

88.00	823	173.00	3272	263.00	184	367.00	212
89.00	491	174.00	5652	264.00	531	370.00	465
90.00	51	175.00	10027	265.00	6841	371.00	1096
91.00	4133	176.00	3308	266.00	972	372.00	7076
92.00	4747	177.00	4854	267.00	44	373.00	1732
93.00	26688	178.00	1565	268.00	200	374.00	239
94.00	1764	179.00	19984	269.00	54	377.00	90
95.00	639	180.00	13074	270.00	523	383.00	1840
96.00	1301	181.00	6623	271.00	633	384.00	471
97.00	731	182.00	1187	272.00	818	385.00	144
98.00	19808	183.00	839	273.00	10911	390.00	900
99.00	16736	184.00	1364	274.00	28000	391.00	640
100.00	1596	185.00	9404	275.00	167744	392.00	481
101.00	9731	186.00	73488	276.00	22704	393.00	137
102.00	647	187.00	20632	277.00	12078	401.00	472
103.00	3357	188.00	2092	278.00	1917	402.00	2612
104.00	6302	189.00	4715	279.00	467	403.00	3773
105.00	5597	190.00	748	280.00	58	404.00	1227
106.00	2244	191.00	2212	281.00	176	405.00	237
107.00	72808	192.00	6414	282.00	435	410.00	55
108.00	12266	193.00	6866	283.00	1308	415.00	136
110.00	145920	194.00	1360	284.00	910	421.00	3151
111.00	21576	195.00	905	285.00	2324	422.00	3202
112.00	2639	196.00	19928	286.00	460	423.00	23640
113.00	792	198.00	613312	287.00	53	424.00	4956
114.00	131	199.00	41776	288.00	88	425.00	512
115.00	362	200.00	3226	289.00	541	439.00	54
116.00	4391	201.00	3528	290.00	424	441.00	66840
117.00	53032	203.00	3496	291.00	338	442.00	433600
118.00	4107	204.00	19488	292.00	629	443.00	83896
119.00	479	205.00	33768	293.00	2675	444.00	7723
120.00	1077	206.00	144320	294.00	629	445.00	432
121.00	334	207.00	18832	295.00	325		
122.00	4704	208.00	4111	296.00	38976		

Data File: \\target\share\chem3\nt10.1\20220623.1\NT1022062302.D

Date: 23-JUN-2022 09:16

Client ID:

Sample Info: SKF0270-CALS

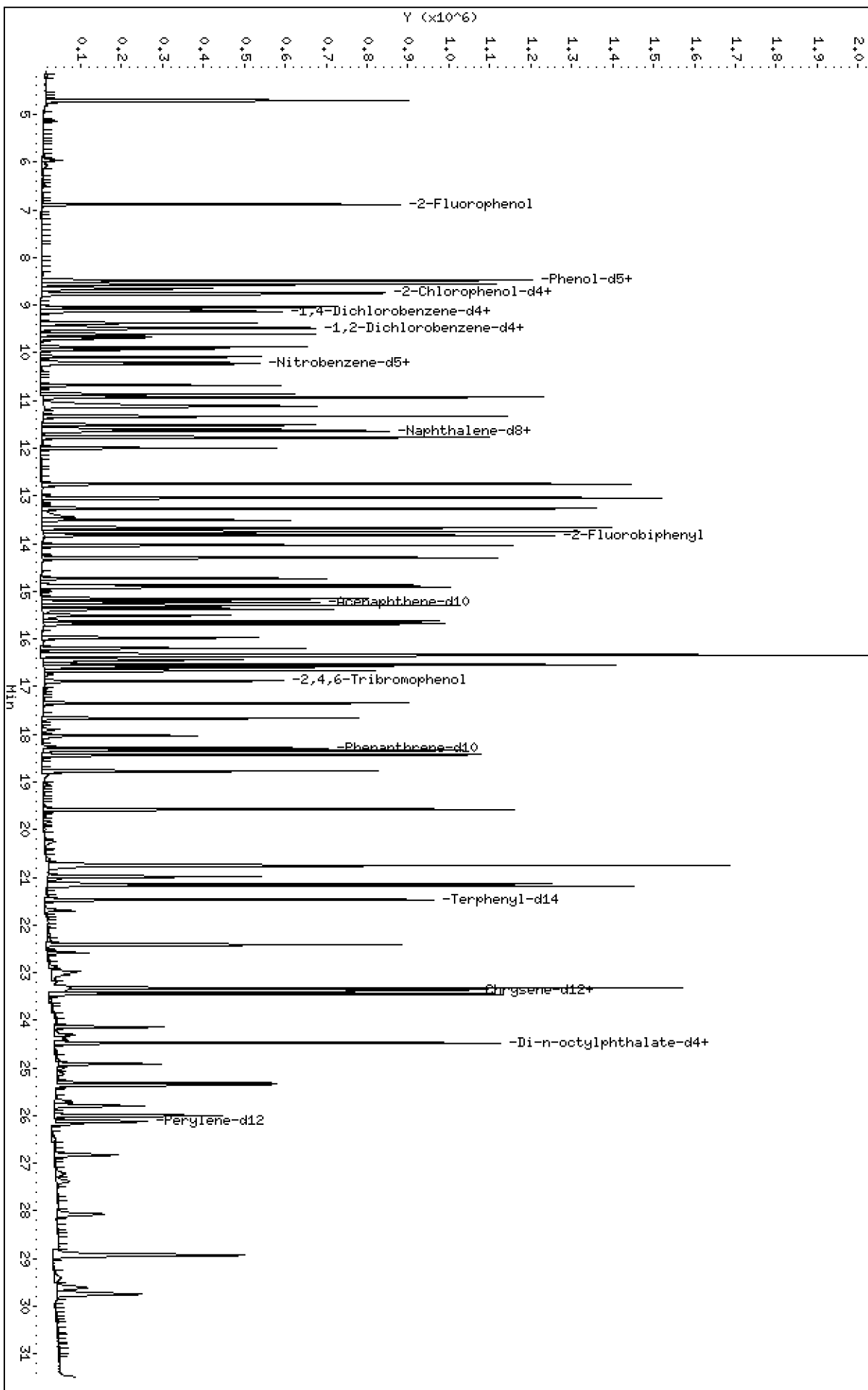
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20220623.1\NT1022062302.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220623.b\NT1022062302.D
 Lab Smp Id: SKF0270-CAL5
 Inj Date : 23-JUN-2022 09:16
 Operator : VTS
 Smp Info : SKF0270-CAL5
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Meth Date : 24-Jun-2022 08:34 yev
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT1022062308.D
 Calibration Sample, Level: 5
 Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.883	6.883	(0.756)	433521	7.50000	7.639
\$ 2 Phenol-d5	99		8.482	8.475	(0.931)	669075	7.50000	7.946
3 Phenol	94		8.498	8.497	(0.933)	369167	5.00000	5.031
\$ 5 2-Chlorophenol-d4	132		8.745	8.745	(0.960)	429333	7.50000	7.425
4 Bis(2-Chloroethyl)ether	93		8.652	8.645	(0.950)	255532	5.00000	4.839
6 2-Chlorophenol	128		8.776	8.776	(0.963)	287271	5.00000	4.911
7 1,3-Dichlorobenzene	146		9.039	9.040	(0.992)	305764	5.00000	4.833
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.102	(1.000)	155417	4.00000	
9 1,4-Dichlorobenzene	146		9.140	9.133	(1.003)	255399	5.00000	5.121
\$ 10 1,2-Dichlorobenzene-d4	152		9.466	9.466	(1.039)	178210	5.00000	5.001
12 1,2-Dichlorobenzene	146		9.497	9.490	(1.043)	263578	5.00000	4.978
11 Benzyl alcohol	108		9.373	9.373	(1.029)	162056	5.00000	5.544
14 2,2'-oxybis(1-Chloropropane)	121		9.676	9.676	(1.062)	61910	5.00000	4.945
13 2-Methylphenol	108		9.613	9.606	(1.055)	229907	5.00000	5.082
17 Hexachloroethane	117		10.087	10.087	(1.107)	112829	5.00000	5.075
16 N-Nitroso-di-n-propylamine	70		9.932	9.924	(1.090)	153722	5.00000	4.886
15 4-Methylphenol	108		9.877	9.878	(1.084)	245365	5.00000	5.075
\$ 18 Nitrobenzene-d5	82		10.203	10.196	(0.880)	272336	5.00000	5.211
19 Nitrobenzene	77		10.234	10.235	(0.883)	274819	5.00000	5.217
20 Isophorone	82		10.684	10.677	(0.921)	417317	5.00000	5.476
21 2-Nitrophenol	139		10.868	10.868	(0.937)	175168	5.00000	5.265
22 2,4-Dimethylphenol	107		10.927	10.928	(0.942)	409579	10.0000	10.13
23 Bis(2-Chloroethoxy)methane	93		11.114	11.114	(0.958)	209276	5.00000	4.571
24 Benzoic acid	105		11.148	11.064	(0.961)	448309	20.0000	20.71
25 2,4-Dichlorophenol	162		11.335	11.327	(0.977)	428438	10.0000	10.43
26 1,2,4-Trichlorobenzene	180		11.511	11.512	(0.993)	211186	5.00000	4.789
* 27 Naphthalene-d8	136		11.596	11.597	(1.000)	491185	4.00000	
28 Naphthalene	128		11.643	11.635	(1.004)	658606	5.00000	5.239
29 4-Chloroaniline	127		11.774	11.767	(1.015)	600291	10.0000	10.81
30 Hexachlorobutadiene	225		11.998	11.998	(1.035)	111684	5.00000	5.309
31 4-Chloro-3-methylphenol	107		12.749	12.749	(1.099)	495209	10.0000	9.971
32 2-Methylnaphthalene	142		13.043	13.043	(1.125)	681217	5.00000	5.452
33 Hexachlorocyclopentadiene	237		13.507	13.508	(0.887)	148627	10.0000	8.783

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.677	13.670	(0.898)	361508	10.0000	11.28
35 2,4,5-Trichlorophenol	196	13.755	13.747	(0.903)	389418	10.0000	10.21
\$ 36 2-Fluorobiphenyl	172	13.824	13.825	(0.908)	666254	5.00000	5.221
37 2-Chloronaphthalene	162	14.041	14.034	(0.922)	596294	5.00000	5.301
38 2-Nitroaniline	65	14.297	14.297	(0.939)	325405	10.0000	10.81
39 Dimethylphthalate	163	14.730	14.730	(0.967)	492072	5.00000	4.976
40 Acenaphthylene	152	14.916	14.908	(0.979)	776155	5.00000	4.709
41 2,6-Dinitrotoluene	165	14.877	14.870	(0.977)	237164	10.0000	10.33
* 42 Acenaphthene-d10	164	15.233	15.226	(1.000)	281977	4.00000	
43 3-Nitroaniline	138	15.163	15.156	(0.995)	276150	10.0000	10.21
44 Acenaphthene	153	15.302	15.295	(1.005)	437519	5.00000	5.335
45 2,4-Dinitrophenol	184	15.380	15.372	(1.010)	209512	20.0000	19.63 (M)
46 Dibenzofuran	168	15.627	15.627	(1.026)	705848	5.00000	5.416
47 4-Nitrophenol	109	15.503	15.504	(1.018)	90731	10.0000	10.06
48 2,4-Dinitrotoluene	165	15.689	15.682	(1.030)	337014	10.0000	10.98
50 Diethylphthalate	149	16.199	16.192	(1.063)	439066	5.00000	5.176
49 Fluorene	166	16.346	16.338	(1.073)	774258	5.00000	4.972
51 4-Chlorophenyl-phenylether	204	16.338	16.331	(1.073)	339865	5.00000	4.970
52 4-Nitroaniline	138	16.439	16.424	(1.079)	277015	10.0000	10.23
53 4,6-Dinitro-2-methylphenol	198	16.539	16.532	(0.904)	394977	20.0000	20.30
54 N-Nitrosodiphenylamine	169	16.593	16.585	(0.907)	380206	5.00000	4.850
\$ 55 2,4,6-Tribromophenol	330	16.886	16.886	(1.109)	98411	7.50000	7.657
56 4-Bromophenyl-phenylether	248	17.349	17.349	(0.948)	195103	5.00000	5.371
57 Hexachlorobenzene	284	17.665	17.666	(0.966)	172171	5.00000	5.197
58 Pentachlorophenol	266	18.029	18.038	(0.986)	79388	10.0000	10.14
* 59 Phenanthrene-d10	188	18.292	18.293	(1.000)	498577	4.00000	
60 Phenanthrene	178	18.339	18.339	(1.003)	680610	5.00000	5.196
61 Anthracene	178	18.432	18.432	(1.008)	757152	5.00000	5.424
62 Carbazole	167	18.772	18.773	(1.026)	658631	5.00000	5.115
63 Di-n-butylphthalate	149	19.577	19.577	(1.070)	1025442	5.00000	5.124
64 Fluoranthene	202	20.753	20.753	(0.887)	1069189	5.00000	5.526
65 Pyrene	202	21.178	21.179	(0.905)	871526	5.00000	5.143
\$ 66 Terphenyl-d14	244	21.472	21.473	(0.918)	510544	5.00000	5.551
67 Butylbenzylphthalate	149	22.409	22.410	(0.958)	306578	5.00000	5.758
68 Benzo(a)anthracene	228	23.369	23.370	(0.999)	556996	5.00000	4.988
* 69 Chrysene-d12	240	23.400	23.401	(1.000)	263544	4.00000	
70 3,3'-Dichlorobenzidine	252	23.331	23.323	(0.997)	514031	15.0000	14.13
71 Chrysene	228	23.447	23.447	(1.002)	373084	5.00000	4.795
72 bis(2-Ethylhexyl)phthalate	149	23.455	23.455	(0.959)	281004	5.00000	5.610
* 134 Di-n-octylphthalate-d4	153	24.469	24.476	(1.000)	453170	4.00000	
73 Di-n-octylphthalate	149	24.484	24.485	(1.001)	518433	5.00000	5.033
74 Benzo(b)fluoranthene	252	25.320	25.313	(0.969)	410834	5.00000	5.204
75 Benzo(k)fluoranthene	252	25.367	25.359	(0.971)	403254	5.00000	5.312
76 Benzo(a)pyrene	252	26.002	25.994	(0.995)	312883	5.00000	4.842
* 77 Perylene-d12	264	26.126	26.118	(1.000)	174316	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.923	28.916	(1.107)	368860	5.00000	5.347
79 Dibenzo(a,h)anthracene	278	28.938	28.931	(1.108)	278506	5.00000	5.274
80 Benzo(g,h,i)perylene	276	29.746	29.739	(1.139)	277911	5.00000	5.040
90 N-Nitrosodimethylamine	74	4.697	4.697	(0.516)	387001	10.0000	10.42
91 Aniline	93	8.560	8.560	(0.940)	713729	10.0000	9.726
93 Benzidine	184	20.985	20.985	(0.897)	361572	10.0000	9.300
103 Pyridine	79	4.713	4.728	(0.517)	509263	5.00000	4.838
105 1-methylnaphthalene	142	13.267	13.260	(1.144)	660372	5.00000	5.380
111 Azobenzene (1,2-DP-Hydrazine)	77	16.670	16.663	(1.094)	558837	5.00000	4.962

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
187 Total Benzofluoranthenes	252		25.320	25.359	(0.969)	741431	10.0000	10.07
120 2,3,4,6-Tetrachlorophenol	232		15.975	15.968	(1.049)	115642	5.00000	4.701

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-JUN-2022
 Lab File ID: NT1022062302.D Calibration Time: 09:16
 Lab Smp Id: SKF0270-CAL5
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	155417	77709	310834	155417	0.00
27 Naphthalene-d8	491185	245593	982370	491185	0.00
42 Acenaphthene-d10	281977	140989	563954	281977	0.00
59 Phenanthrene-d10	498577	249289	997154	498577	0.00
69 Chrysene-d12	263544	131772	527088	263544	0.00
134 Di-n-octylphthala	453170	226585	906340	453170	0.00
77 Perylene-d12	174316	87158	348632	174316	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	0.00
27 Naphthalene-d8	11.60	11.10	12.10	11.60	0.00
42 Acenaphthene-d10	15.23	14.73	15.73	15.23	0.00
59 Phenanthrene-d10	18.29	17.79	18.79	18.29	0.00
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.47	23.97	24.97	24.47	0.00
77 Perylene-d12	26.13	25.63	26.63	26.13	0.00

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

REVIEW SUMMARY FOR FILE - NT1022062302.D

Lab ID: SKF0270-CAL5
nt10.i, ABN.m, 23-JUN-2022 09:16

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.961	0.954	0.0073	Benzoic acid

RRT check based on Ccal File: NT1022062308.D

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

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

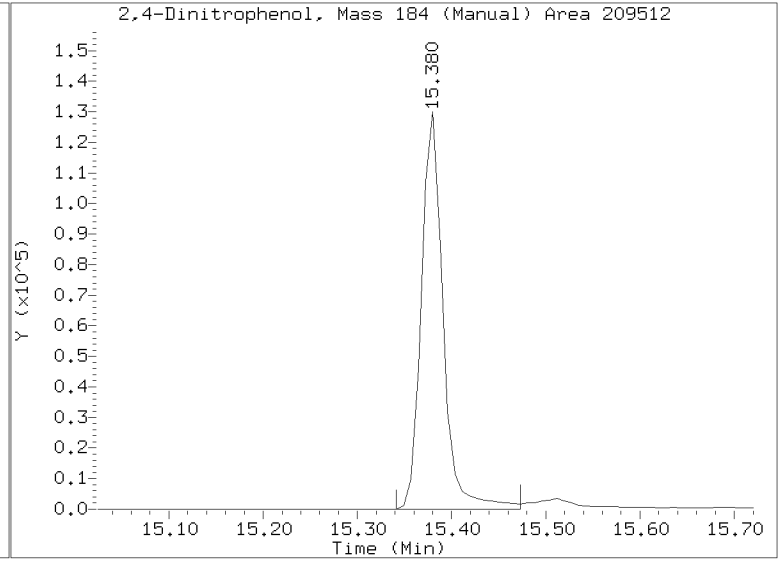
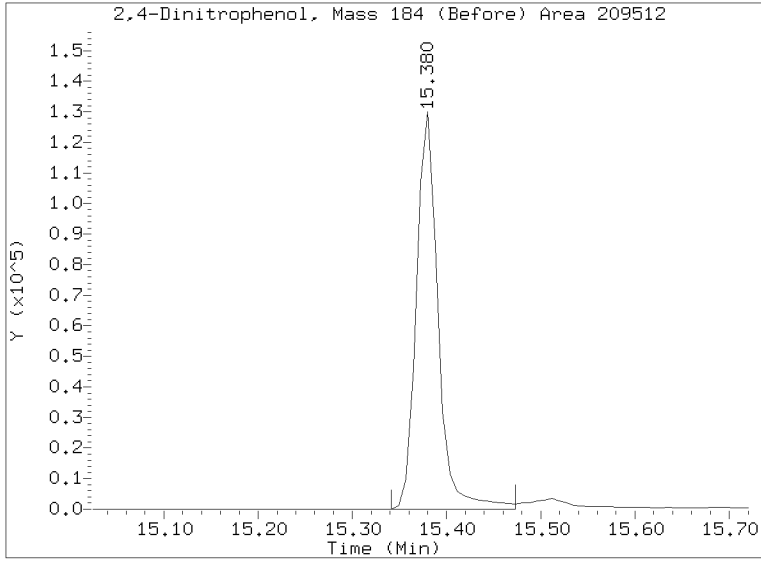
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220623.b/NT1022062302.D

Injection Date: 23-JUN-2022 09:16

Lab ID:SKF0270-CAL5 Client ID:

Report Date: 06/24/2022 08:36

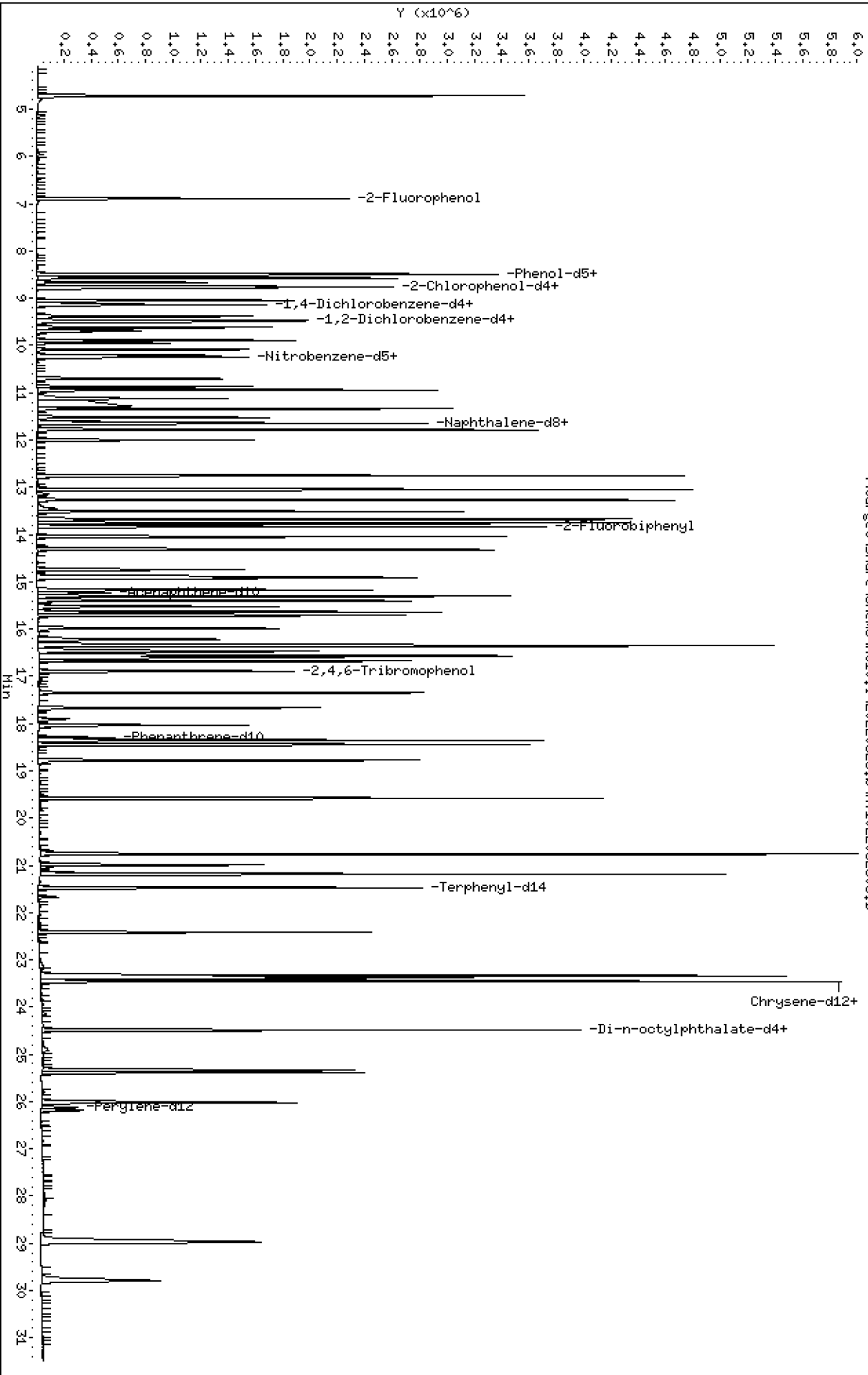


Data File: \\target\share\chem3\nt10.1\20220623.1\NT1022062303.D
Date: 23-JUN-2022 09:54
Client ID:
Sample Info: SKF0270-CAL7

Column phase: ZB-5msi

Instrument: nt10.1
Operator: VTS
Column diameter: 0.25

\\target\share\chem3\nt10.1\20220623.1\NT1022062303.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220623.b\NT1022062303.D
 Lab Smp Id: SKF0270-CAL7
 Inj Date : 23-JUN-2022 09:54
 Operator : VTS
 Smp Info : SKF0270-CAL7
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Meth Date : 24-Jun-2022 08:34 yev
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT1022062308.D
 Calibration Sample, Level: 7
 Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.890	6.883	(0.756)	1179756	30.0000	27.94
\$ 2 Phenol-d5	99		8.490	8.475	(0.932)	2167257	30.0000	34.59
3 Phenol	94		8.513	8.497	(0.935)	999613	20.0000	18.31
\$ 5 2-Chlorophenol-d4	132		8.760	8.745	(0.962)	1293215	30.0000	30.06
4 Bis(2-Chloroethyl)ether	93		8.660	8.645	(0.951)	726647	20.0000	18.49
6 2-Chlorophenol	128		8.783	8.776	(0.964)	873132	20.0000	20.06
7 1,3-Dichlorobenzene	146		9.047	9.040	(0.993)	836567	20.0000	17.77
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.102	(1.000)	115640	4.00000	
9 1,4-Dichlorobenzene	146		9.140	9.133	(1.003)	728795	20.0000	19.64
\$ 10 1,2-Dichlorobenzene-d4	152		9.473	9.466	(1.040)	524462	20.0000	19.78
12 1,2-Dichlorobenzene	146		9.497	9.490	(1.043)	737891	20.0000	18.73
11 Benzyl alcohol	108		9.388	9.373	(1.031)	469241	20.0000	21.58
14 2,2'-oxybis(1-Chloropropane)	121		9.683	9.676	(1.063)	182979	20.0000	19.64
13 2-Methylphenol	108		9.621	9.606	(1.056)	633351	20.0000	18.82
17 Hexachloroethane	117		10.087	10.087	(1.107)	347466	20.0000	21.00
16 N-Nitroso-di-n-propylamine	70		9.947	9.924	(1.092)	428386	20.0000	18.30
15 4-Methylphenol	108		9.893	9.878	(1.086)	683747	20.0000	19.01
\$ 18 Nitrobenzene-d5	82		10.211	10.196	(0.880)	816155	20.0000	20.70
19 Nitrobenzene	77		10.250	10.235	(0.883)	806694	20.0000	20.30
20 Isophorone	82		10.707	10.677	(0.923)	1351835	20.0000	23.51
21 2-Nitrophenol	139		10.876	10.868	(0.937)	543543	20.0000	21.65
22 2,4-Dimethylphenol	107		10.944	10.928	(0.943)	1092273	40.0000	35.82
23 Bis(2-Chloroethoxy)methane	93		11.122	11.114	(0.959)	671126	20.0000	19.43
24 Benzoic acid	105		11.292	11.064	(0.973)	1516010	80.0000	79.89 (M)
25 2,4-Dichlorophenol	162		11.343	11.327	(0.978)	1139738	40.0000	36.78
26 1,2,4-Trichlorobenzene	180		11.519	11.512	(0.993)	540938	20.0000	16.26
* 27 Naphthalene-d8	136		11.604	11.597	(1.000)	370549	4.00000	
28 Naphthalene	128		11.650	11.635	(1.004)	2091194	20.0000	22.05
29 4-Chloroaniline	127		11.781	11.767	(1.015)	1959675	40.0000	46.80
30 Hexachlorobutadiene	225		12.006	11.998	(1.035)	299915	20.0000	18.90
31 4-Chloro-3-methylphenol	107		12.756	12.749	(1.099)	1648645	40.0000	39.95
32 2-Methylnaphthalene	142		13.050	13.043	(1.125)	2229816	20.0000	23.66
33 Hexachlorocyclopentadiene	237		13.515	13.508	(0.887)	752915	40.0000	39.84

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.677	13.670	(0.897)	1104668	40.0000	43.19
35 2,4,5-Trichlorophenol	196	13.762	13.747	(0.903)	1182965	40.0000	39.95
\$ 36 2-Fluorobiphenyl	172	13.832	13.825	(0.908)	1910495	20.0000	18.76
37 2-Chloronaphthalene	162	14.049	14.034	(0.922)	1784939	20.0000	19.88
38 2-Nitroaniline	65	14.319	14.297	(0.940)	1033429	40.0000	43.03
39 Dimethylphthalate	163	14.745	14.730	(0.968)	1256025	20.0000	15.91
40 Acenaphthylene	152	14.923	14.908	(0.979)	2193307	20.0000	16.67
41 2,6-Dinitrotoluene	165	14.892	14.870	(0.977)	709655	40.0000	38.71
* 42 Acenaphthene-d10	164	15.240	15.226	(1.000)	225060	4.00000	
43 3-Nitroaniline	138	15.178	15.156	(0.996)	926355	40.0000	42.93
44 Acenaphthene	153	15.310	15.295	(1.005)	1453740	20.0000	22.21
45 2,4-Dinitrophenol	184	15.403	15.372	(1.011)	850978	80.0000	79.79 (M)
46 Dibenzofuran	168	15.642	15.627	(1.026)	2151469	20.0000	20.68
47 4-Nitrophenol	109	15.526	15.504	(1.019)	311232	40.0000	39.94
48 2,4-Dinitrotoluene	165	15.712	15.682	(1.031)	1034199	40.0000	42.21
50 Diethylphthalate	149	16.222	16.192	(1.064)	1180443	20.0000	17.44
49 Fluorene	166	16.361	16.338	(1.074)	2253497	20.0000	18.13
51 4-Chlorophenyl-phenylether	204	16.346	16.331	(1.073)	1051641	20.0000	19.27
52 4-Nitroaniline	138	16.477	16.424	(1.081)	947193	40.0000	43.83
53 4,6-Dinitro-2-methylphenol	198	16.569	16.532	(0.905)	1227039	80.0000	79.88
54 N-Nitrosodiphenylamine	169	16.608	16.585	(0.908)	1016001	20.0000	16.18
\$ 55 2,4,6-Tribromophenol	330	16.893	16.886	(1.108)	318978	30.0000	29.99
56 4-Bromophenyl-phenylether	248	17.356	17.349	(0.948)	576480	20.0000	19.82
57 Hexachlorobenzene	284	17.673	17.666	(0.966)	469385	20.0000	20.05
58 Pentachlorophenol	266	18.037	18.038	(0.986)	309014	40.0000	39.92
* 59 Phenanthrene-d10	188	18.300	18.293	(1.000)	399324	4.00000	
60 Phenanthrene	178	18.354	18.339	(1.003)	2330032	20.0000	22.21
61 Anthracene	178	18.447	18.432	(1.008)	2519659	20.0000	22.54
62 Carbazole	167	18.780	18.773	(1.026)	2233443	20.0000	21.65
63 Di-n-butylphthalate	149	19.584	19.577	(1.070)	3715420	20.0000	20.00
64 Fluoranthene	202	20.760	20.753	(0.887)	3863710	20.0000	20.02
65 Pyrene	202	21.194	21.179	(0.905)	3487447	20.0000	20.00
\$ 66 Terphenyl-d14	244	21.480	21.473	(0.918)	1529920	20.0000	19.48
67 Butylbenzylphthalate	149	22.417	22.410	(0.958)	939422	20.0000	20.66
68 Benzo(a)anthracene	228	23.385	23.370	(0.999)	1911599	20.0000	20.04
* 69 Chrysene-d12	240	23.408	23.401	(1.000)	225089	4.00000	
70 3,3'-Dichlorobenzidine	252	23.338	23.323	(0.997)	1994148	60.0000	64.16
71 Chrysene	228	23.462	23.447	(1.002)	1762178	20.0000	19.97
72 bis(2-Ethylhexyl)phthalate	149	23.462	23.455	(0.958)	1293874	20.0000	19.98
* 134 Di-n-octylphthalate-d4	153	24.484	24.476	(1.000)	585877	4.00000	
73 Di-n-octylphthalate	149	24.492	24.485	(1.000)	2580310	20.0000	19.38
74 Benzo(b)fluoranthene	252	25.336	25.313	(0.970)	1819728	20.0000	22.74
75 Benzo(k)fluoranthene	252	25.382	25.359	(0.972)	1557898	20.0000	20.25
76 Benzo(a)pyrene	252	26.017	25.994	(0.996)	1484595	20.0000	22.67
* 77 Perylene-d12	264	26.126	26.118	(1.000)	176675	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.962	28.916	(1.109)	1476908	20.0000	21.12
79 Dibenzo(a,h)anthracene	278	28.977	28.931	(1.109)	1082080	20.0000	20.22
80 Benzo(g,h,i)perylene	276	29.793	29.739	(1.140)	1206025	20.0000	21.58
90 N-Nitrosodimethylamine	74	4.720	4.697	(0.518)	1090397	40.0000	39.47
91 Aniline	93	8.575	8.560	(0.941)	1905562	40.0000	34.90
93 Benzidine	184	20.992	20.985	(0.897)	1094419	40.0000	32.96
103 Pyridine	79	4.720	4.728	(0.518)	1564138	20.0000	19.97
105 1-methylnaphthalene	142	13.275	13.260	(1.144)	2120690	20.0000	22.90
111 Azobenzene (1,2-DP-Hydrazine)	77	16.677	16.663	(1.094)	1706166	20.0000	18.98

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	
187 Total Benzofluoranthenes	252		25.382	25.359	(0.972)	3249651	40.0000	43.56
120 2,3,4,6-Tetrachlorophenol	232		15.982	15.968	(1.049)	375954	20.0000	19.90

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-JUN-2022
 Lab File ID: NT1022062303.D Calibration Time: 09:16
 Lab Smp Id: SKF0270-CAL7
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	155417	77709	310834	115640	-25.59
27 Naphthalene-d8	491185	245593	982370	370549	-24.56
42 Acenaphthene-d10	281977	140989	563954	225060	-20.18
59 Phenanthrene-d10	498577	249289	997154	399324	-19.91
69 Chrysene-d12	263544	131772	527088	225089	-14.59
134 Di-n-octylphthala	453170	226585	906340	585877	29.28
77 Perylene-d12	174316	87158	348632	176675	1.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	-0.00
27 Naphthalene-d8	11.60	11.10	12.10	11.60	0.06
42 Acenaphthene-d10	15.23	14.73	15.73	15.24	0.05
59 Phenanthrene-d10	18.29	17.79	18.79	18.30	0.04
69 Chrysene-d12	23.40	22.90	23.90	23.41	0.03
134 Di-n-octylphthala	24.47	23.97	24.97	24.48	0.06
77 Perylene-d12	26.13	25.63	26.63	26.13	-0.00

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

REVIEW SUMMARY FOR FILE - NT1022062303.D

Lab ID: SKF0270-CAL7
nt10.i, ABN.m, 23-JUN-2022 09:54

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.973	0.954	0.0191	Benzoic acid

RRT check based on Ccal File: NT1022062308.D

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

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

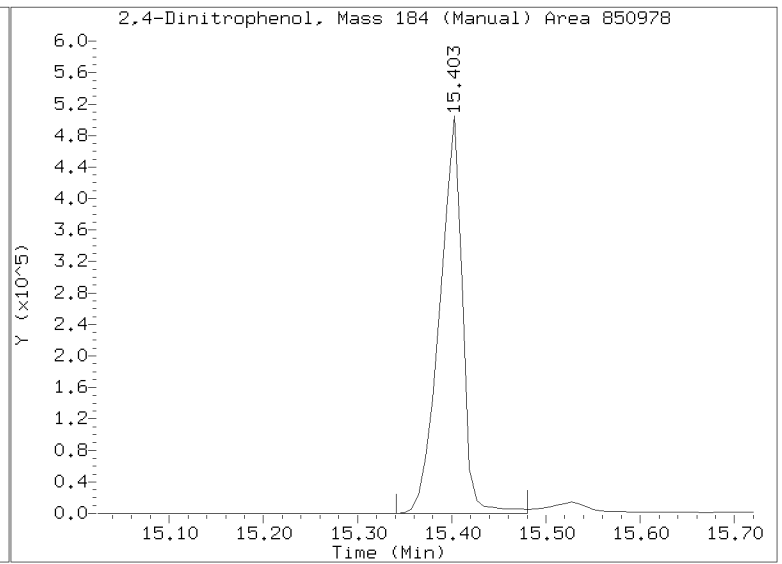
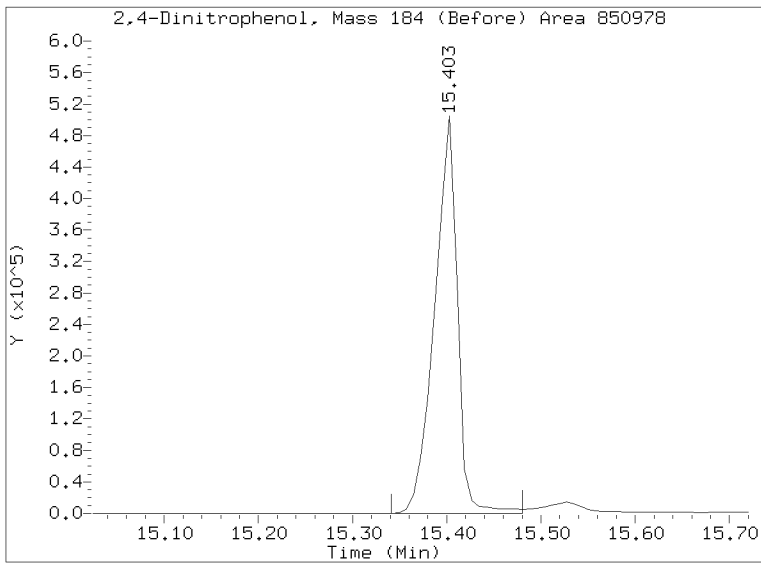
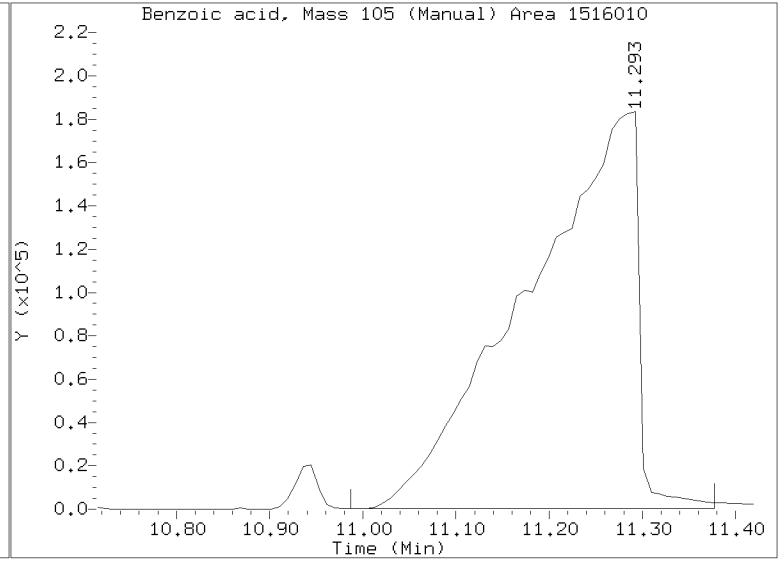
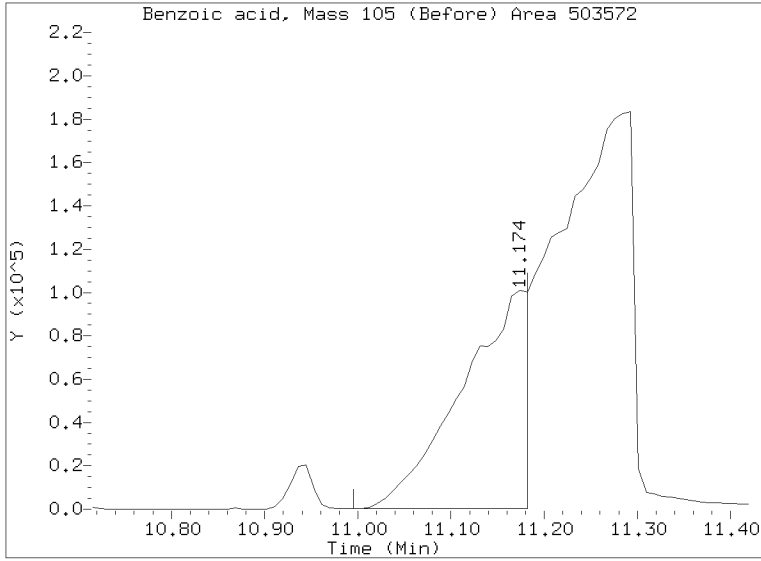
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220623.b/NT1022062303.D

Injection Date: 23-JUN-2022 09:54

Lab ID:SKF0270-CAL7 Client ID:

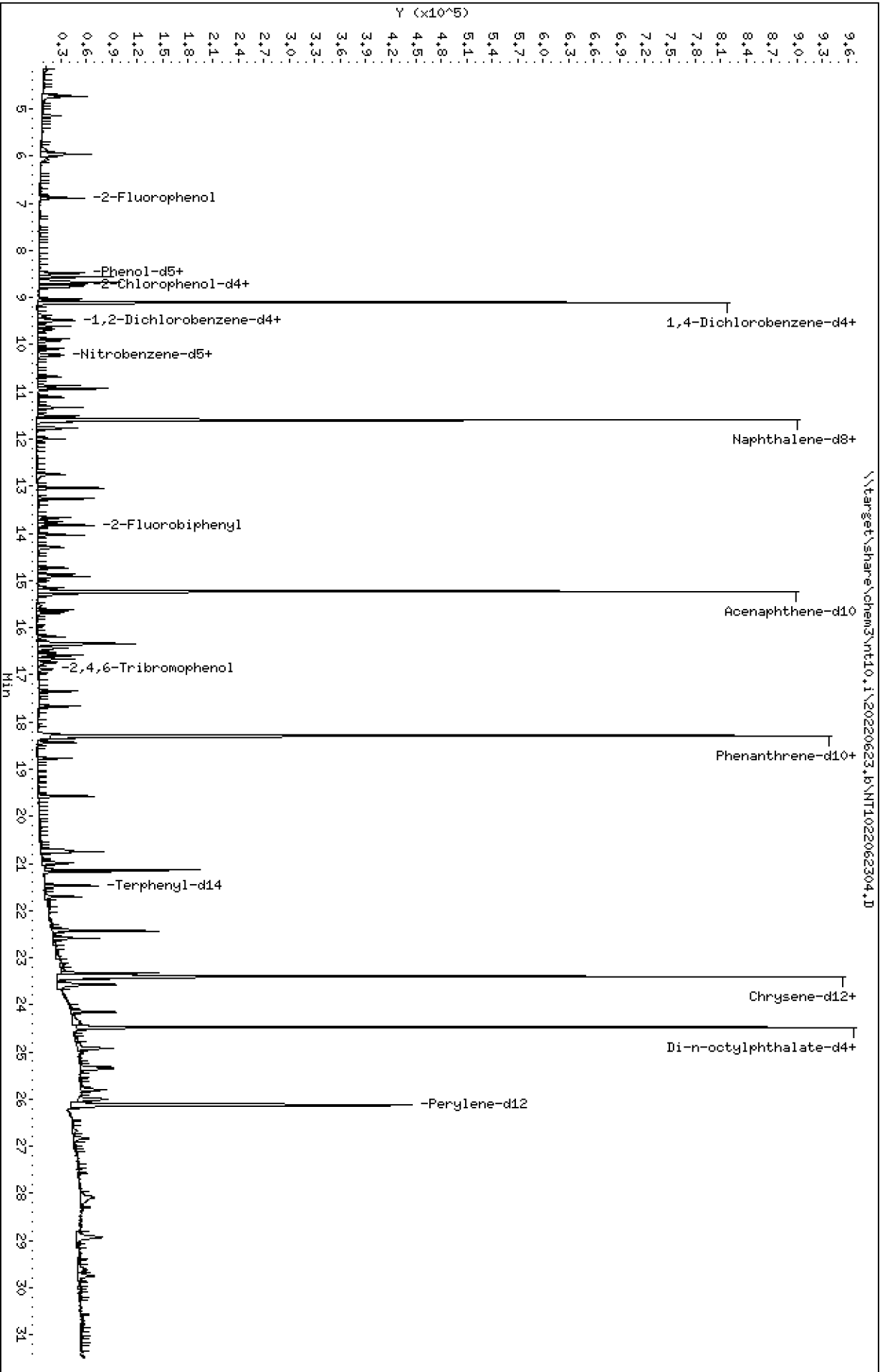
Report Date: 06/24/2022 08:36



Data File: \\target\share\chem3\nt10.1\20220623.1\NT1022062304.D
Date: 23-JUN-2022 10:33
Client ID:
Sample Info: SKF0270-CAL1

Column phase: ZB-5msi

Instrument: nt10.1
Operator: VTS
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220623.b\NT1022062304.D
 Lab Smp Id: SKF0270-CAL1
 Inj Date : 23-JUN-2022 10:33
 Operator : VTS
 Smp Info : SKF0270-CAL1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Meth Date : 24-Jun-2022 08:34 yev
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT1022062308.D
 Calibration Sample, Level: 1
 Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.891	6.883	(0.756)	25507	0.30000	0.2881
\$ 2 Phenol-d5	99		8.475	8.475	(0.930)	32258	0.30000	0.2456
3 Phenol	94		8.498	8.497	(0.933)	23861	0.20000	0.2084
\$ 5 2-Chlorophenol-d4	132		8.745	8.745	(0.960)	26322	0.30000	0.2918
4 Bis(2-Chloroethyl)ether	93		8.645	8.645	(0.949)	18629	0.20000	0.2261
6 2-Chlorophenol	128		8.776	8.776	(0.963)	19383	0.20000	0.2124
7 1,3-Dichlorobenzene	146		9.039	9.040	(0.992)	21870	0.20000	0.2216
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.102	(1.000)	242464	4.00000	
9 1,4-Dichlorobenzene	146		9.140	9.133	(1.003)	15854	0.20000	0.2038
\$ 10 1,2-Dichlorobenzene-d4	152		9.466	9.466	(1.039)	10932	0.20000	0.1967
12 1,2-Dichlorobenzene	146		9.497	9.490	(1.043)	17921	0.20000	0.2170
11 Benzyl alcohol	108		9.380	9.373	(1.030)	7940	0.20000	0.1741
14 2,2'-oxybis(1-Chloropropane)	121		9.675	9.676	(1.062)	4121	0.20000	0.2110
13 2-Methylphenol	108		9.613	9.606	(1.055)	14473	0.20000	0.2051
17 Hexachloroethane	117		10.087	10.087	(1.107)	6844	0.20000	0.1973
16 N-Nitroso-di-n-propylamine	70		9.932	9.924	(1.090)	10926	0.20000	0.2226
15 4-Methylphenol	108		9.885	9.878	(1.085)	15003	0.20000	0.1989
\$ 18 Nitrobenzene-d5	82		10.195	10.196	(0.879)	14699	0.20000	0.1860
19 Nitrobenzene	77		10.234	10.235	(0.883)	16693	0.20000	0.2096
20 Isophorone	82		10.677	10.677	(0.921)	20214	0.20000	0.1755
21 2-Nitrophenol	139		10.868	10.868	(0.937)	8760	0.20000	0.1742
22 2,4-Dimethylphenol	107		10.927	10.928	(0.942)	27762	0.40000	0.4544
23 Bis(2-Chloroethoxy)methane	93		11.114	11.114	(0.958)	16432	0.20000	0.2374
24 Benzoic acid	105		11.055	11.064	(0.953)	5700	0.80000	0.1811 (M)
25 2,4-Dichlorophenol	162		11.326	11.327	(0.977)	23891	0.40000	0.3847
26 1,2,4-Trichlorobenzene	180		11.511	11.512	(0.993)	15295	0.20000	0.2295
* 27 Naphthalene-d8	136		11.596	11.597	(1.000)	742519	4.00000	
28 Naphthalene	128		11.635	11.635	(1.003)	36033	0.20000	0.1896
29 4-Chloroaniline	127		11.766	11.767	(1.015)	25798	0.40000	0.3075
30 Hexachlorobutadiene	225		11.998	11.998	(1.035)	6595	0.20000	0.2074
31 4-Chloro-3-methylphenol	107		12.749	12.749	(1.099)	17626	0.40000	0.2410
32 2-Methylnaphthalene	142		13.043	13.043	(1.125)	32001	0.20000	0.1694
33 Hexachlorocyclopentadiene	237		13.507	13.508	(0.887)	162	0.40000	0.007520

Compounds	QUANT SIG					AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
34 2,4,6-Trichlorophenol	196	13.670	13.670	(0.897)	11245	0.40000	0.2617	
35 2,4,5-Trichlorophenol	196	13.755	13.747	(0.903)	12629	0.40000	0.2446	
§ 36 2-Fluorobiphenyl	172	13.824	13.825	(0.908)	32082	0.20000	0.1875	
37 2-Chloronaphthalene	162	14.041	14.034	(0.922)	29424	0.20000	0.1951	
38 2-Nitroaniline	65	14.304	14.297	(0.939)	11466	0.40000	0.2842	
39 Dimethylphthalate	163	14.730	14.730	(0.967)	29854	0.20000	0.2252	
40 Acenaphthylene	152	14.916	14.908	(0.979)	48007	0.20000	0.2172	
41 2,6-Dinitrotoluene	165	14.877	14.870	(0.977)	11187	0.40000	0.3633	
* 42 Acenaphthene-d10	164	15.233	15.226	(1.000)	378079	4.00000		
43 3-Nitroaniline	138	15.163	15.156	(0.995)	11930	0.40000	0.3291	
44 Acenaphthene	153	15.302	15.295	(1.005)	20232	0.20000	0.1840	
45 2,4-Dinitrophenol	184	Compound Not Detected.						
46 Dibenzofuran	168	15.627	15.627	(1.026)	31566	0.20000	0.1806	
47 4-Nitrophenol	109	15.534	15.504	(1.020)	2301	0.40000	0.1946	
48 2,4-Dinitrotoluene	165	15.689	15.682	(1.030)	11502	0.40000	0.2795	
50 Diethylphthalate	149	16.199	16.192	(1.063)	23063	0.20000	0.2028	
49 Fluorene	166	16.346	16.338	(1.073)	45350	0.20000	0.2172	
51 4-Chlorophenyl-phenylether	204	16.338	16.331	(1.073)	19880	0.20000	0.2168	
52 4-Nitroaniline	138	16.439	16.424	(1.079)	14259	0.40000	0.3927	
53 4,6-Dinitro-2-methylphenol	198	16.539	16.532	(0.904)	6367	0.80000	0.2467	
54 N-Nitrosodiphenylamine	169	16.585	16.585	(0.907)	24451	0.20000	0.2363	
§ 55 2,4,6-Tribromophenol	330	16.886	16.886	(1.109)	3145	0.30000	0.1846	
56 4-Bromophenyl-phenylether	248	17.348	17.349	(0.948)	9462	0.20000	0.1974	
57 Hexachlorobenzene	284	17.665	17.666	(0.966)	10648	0.20000	0.2306	
58 Pentachlorophenol	266	18.037	18.038	(0.986)	485	0.40000	0.04926	
* 59 Phenanthrene-d10	188	18.292	18.293	(1.000)	658081	4.00000		
60 Phenanthrene	178	18.339	18.339	(1.003)	33755	0.20000	0.1952	
61 Anthracene	178	18.439	18.432	(1.008)	33428	0.20000	0.1814	
62 Carbazole	167	18.772	18.773	(1.026)	32418	0.20000	0.1907	
63 Di-n-butylphthalate	149	19.577	19.577	(1.070)	40092	0.20000	0.1575	
64 Fluoranthene	202	20.753	20.753	(0.887)	46853	0.20000	0.1354	
65 Pyrene	202	21.186	21.179	(0.905)	51909	0.20000	0.1715	
§ 66 Terphenyl-d14	244	21.472	21.473	(0.918)	32393	0.20000	0.1887	
67 Butylbenzylphthalate	149	22.409	22.410	(0.958)	19508	0.20000	0.1963	
68 Benzo(a)anthracene	228	23.369	23.370	(0.999)	43569	0.20000	0.2091	
* 69 Chrysene-d12	240	23.400	23.401	(1.000)	491829	4.00000		
70 3,3'-Dichlorobenzidine	252	23.323	23.323	(0.997)	42475	0.60000	0.6254	
71 Chrysene	228	23.447	23.447	(1.002)	26170	0.20000	0.1897	
72 bis(2-Ethylhexyl)phthalate	149	23.462	23.455	(0.959)	16736	0.20000	0.2095	
* 134 Di-n-octylphthalate-d4	153	24.476	24.476	(1.000)	722685	4.00000		
73 Di-n-octylphthalate	149	24.484	24.485	(1.000)	34916	0.20000	0.2126	
74 Benzo(b)fluoranthene	252	25.320	25.313	(0.969)	28241	0.20000	0.1939	
75 Benzo(k)fluoranthene	252	25.367	25.359	(0.971)	26301	0.20000	0.1878	
76 Benzo(a)pyrene	252	26.002	25.994	(0.995)	23575	0.20000	0.1978	
* 77 Perylene-d12	264	26.126	26.118	(1.000)	321528	4.00000		
78 Indeno(1,2,3-cd)pyrene	276	28.923	28.916	(1.107)	24654	0.20000	0.1937	
79 Dibenzo(a,h)anthracene	278	28.946	28.931	(1.108)	19817	0.20000	0.2034	
80 Benzo(g,h,i)perylene	276	29.746	29.739	(1.139)	20466	0.20000	0.2012	
90 N-Nitrosodimethylamine	74	4.705	4.697	(0.517)	22160	0.40000	0.3825	
91 Aniline	93	8.560	8.560	(0.940)	54289	0.40000	0.4742	
93 Benzidine	184	20.993	20.985	(0.897)	34527	0.40000	0.4759	
103 Pyridine	79	4.736	4.728	(0.520)	35708	0.20000	0.2175	
105 1-methylnaphthalene	142	13.267	13.260	(1.144)	32084	0.20000	0.1729	
111 Azobenzene (1,2-DP-Hydrazine)	77	16.662	16.663	(1.094)	31687	0.20000	0.2098	

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
187 Total Benzofluoranthenes	252		25.320	25.359	(0.969)	52851	0.40000	0.3893
120 2,3,4,6-Tetrachlorophenol	232		15.975	15.968	(1.049)	2522	0.20000	0.07550

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-JUN-2022
 Lab File ID: NT1022062304.D Calibration Time: 09:16
 Lab Smp Id: SKF0270-CAL1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	155417	77709	310834	242464	56.01
27 Naphthalene-d8	491185	245593	982370	742519	51.17
42 Acenaphthene-d10	281977	140989	563954	378079	34.08
59 Phenanthrene-d10	498577	249289	997154	658081	31.99
69 Chrysene-d12	263544	131772	527088	491829	86.62
134 Di-n-octylphthala	453170	226585	906340	722685	59.47
77 Perylene-d12	174316	87158	348632	321528	84.45

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	-0.00
27 Naphthalene-d8	11.60	11.10	12.10	11.60	-0.00
42 Acenaphthene-d10	15.23	14.73	15.73	15.23	-0.00
59 Phenanthrene-d10	18.29	17.79	18.79	18.29	-0.00
69 Chrysene-d12	23.40	22.90	23.90	23.40	-0.00
134 Di-n-octylphthala	24.47	23.97	24.97	24.48	0.03
77 Perylene-d12	26.13	25.63	26.63	26.13	-0.00

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

REVIEW SUMMARY FOR FILE - NT1022062304.D

Lab ID: SKF0270-CAL1
nt10.i, ABN.m, 23-JUN-2022 10:33

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022062308.D

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

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

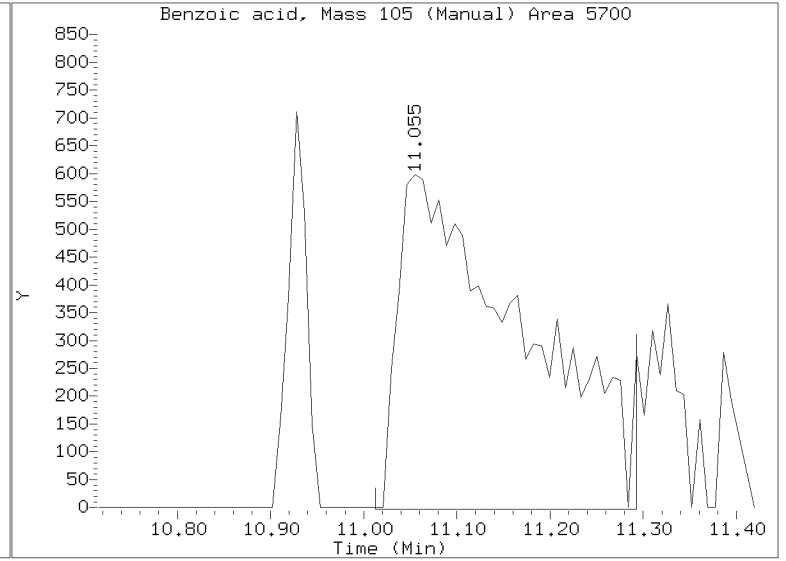
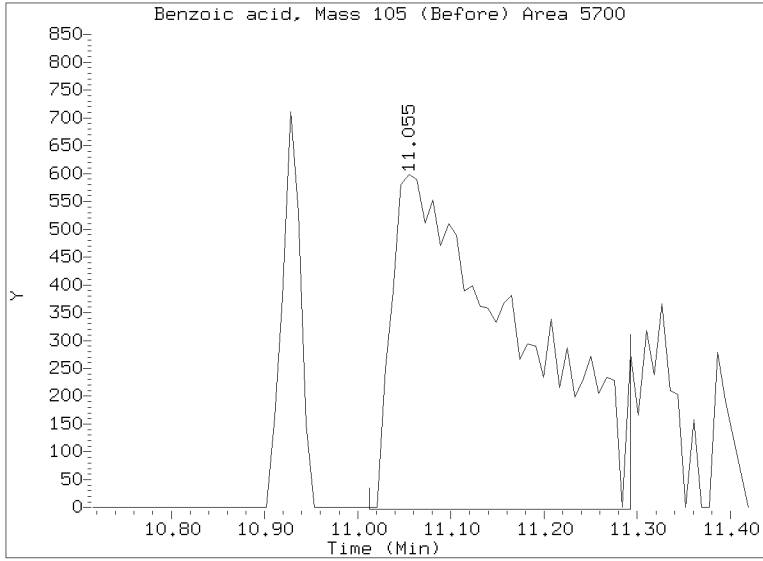
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220623.b/NT1022062304.D

Injection Date: 23-JUN-2022 10:33

Lab ID:SKF0270-CAL1 Client ID:

Report Date: 06/24/2022 08:36



Data File: \\target\share\chem3\nt10.1\20220623.1\NT1022062305.D

Date: 23-JUN-2022 11:11

Client ID:

Sample Info: SKF0270-CAL6

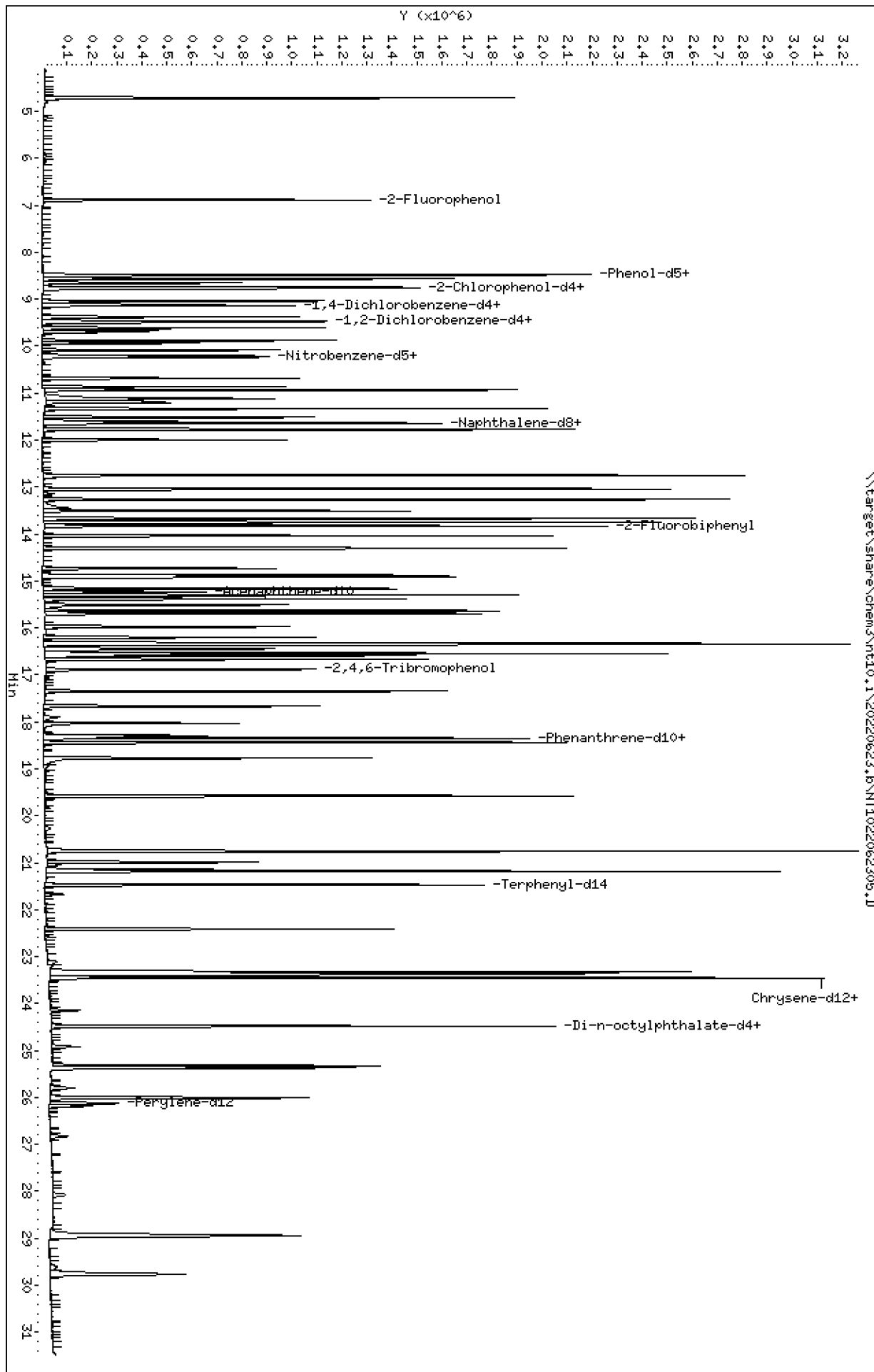
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20220623.1\NT1022062305.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220623.b\NT1022062305.D
 Lab Smp Id: SKF0270-CAL6
 Inj Date : 23-JUN-2022 11:11
 Operator : VTS
 Smp Info : SKF0270-CAL6
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Meth Date : 24-Jun-2022 08:34 yev
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT1022062308.D
 Calibration Sample, Level: 6
 Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.891	6.883	(0.756)	725658	15.0000	14.62
\$ 2 Phenol-d5	99		8.482	8.475	(0.931)	1238720	15.0000	16.82
3 Phenol	94		8.506	8.497	(0.934)	623866	10.0000	9.719
\$ 5 2-Chlorophenol-d4	132		8.753	8.745	(0.961)	814118	15.0000	16.09
4 Bis(2-Chloroethyl)ether	93		8.652	8.645	(0.950)	428737	10.0000	9.281
6 2-Chlorophenol	128		8.776	8.776	(0.963)	487171	10.0000	9.520
7 1,3-Dichlorobenzene	146		9.039	9.040	(0.992)	513355	10.0000	9.275
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.102	(1.000)	135958	4.00000	
9 1,4-Dichlorobenzene	146		9.140	9.133	(1.003)	431343	10.0000	9.887
\$ 10 1,2-Dichlorobenzene-d4	152		9.466	9.466	(1.039)	313051	10.0000	10.04
12 1,2-Dichlorobenzene	146		9.497	9.490	(1.043)	441033	10.0000	9.522
11 Benzyl alcohol	108		9.380	9.373	(1.030)	280973	10.0000	10.99
14 2,2'-oxybis(1-Chloropropane)	121		9.675	9.676	(1.062)	104918	10.0000	9.579
13 2-Methylphenol	108		9.613	9.606	(1.055)	400995	10.0000	10.13
17 Hexachloroethane	117		10.087	10.087	(1.107)	201265	10.0000	10.35
16 N-Nitroso-di-n-propylamine	70		9.939	9.924	(1.091)	260737	10.0000	9.473
15 4-Methylphenol	108		9.885	9.878	(1.085)	427124	10.0000	10.10
\$ 18 Nitrobenzene-d5	82		10.203	10.196	(0.880)	490754	10.0000	10.36
19 Nitrobenzene	77		10.234	10.235	(0.883)	475418	10.0000	9.962
20 Isophorone	82		10.684	10.677	(0.921)	770637	10.0000	11.16
21 2-Nitrophenol	139		10.868	10.868	(0.937)	324752	10.0000	10.77
22 2,4-Dimethylphenol	107		10.927	10.928	(0.942)	687392	20.0000	18.77
23 Bis(2-Chloroethoxy)methane	93		11.114	11.114	(0.958)	385687	10.0000	9.299
24 Benzoic acid	105		11.207	11.064	(0.966)	827687	40.0000	40.45
25 2,4-Dichlorophenol	162		11.335	11.327	(0.977)	745822	20.0000	20.04
26 1,2,4-Trichlorobenzene	180		11.511	11.512	(0.993)	340211	10.0000	8.516
* 27 Naphthalene-d8	136		11.596	11.597	(1.000)	444992	4.00000	
28 Naphthalene	128		11.643	11.635	(1.004)	1204846	10.0000	10.58
29 4-Chloroaniline	127		11.774	11.767	(1.015)	1103471	20.0000	21.94
30 Hexachlorobutadiene	225		11.998	11.998	(1.035)	182521	10.0000	9.577
31 4-Chloro-3-methylphenol	107		12.749	12.749	(1.099)	937972	20.0000	20.23
32 2-Methylnaphthalene	142		13.043	13.043	(1.125)	1267015	10.0000	11.19
33 Hexachlorocyclopentadiene	237		13.507	13.508	(0.887)	360503	20.0000	21.12

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.677	13.670	(0.898)	654159	20.0000	22.17
35 2,4,5-Trichlorophenol	196	13.755	13.747	(0.903)	701825	20.0000	20.18
§ 36 2-Fluorobiphenyl	172	13.832	13.825	(0.908)	1178350	10.0000	10.03
37 2-Chloronaphthalene	162	14.041	14.034	(0.922)	1047578	10.0000	10.12
38 2-Nitroaniline	65	14.304	14.297	(0.939)	601370	20.0000	21.71
39 Dimethylphthalate	163	14.730	14.730	(0.967)	785902	10.0000	8.634
40 Acenaphthylene	152	14.916	14.908	(0.979)	1337105	10.0000	8.812
41 2,6-Dinitrotoluene	165	14.877	14.870	(0.977)	411737	20.0000	19.48
* 42 Acenaphthene-d10	164	15.233	15.226	(1.000)	259574	4.00000	
43 3-Nitroaniline	138	15.171	15.156	(0.996)	493680	20.0000	19.84
44 Acenaphthene	153	15.302	15.295	(1.005)	800671	10.0000	10.61
45 2,4-Dinitrophenol	184	15.387	15.372	(1.010)	431205	40.0000	41.22 (M)
46 Dibenzofuran	168	15.635	15.627	(1.026)	1271986	10.0000	10.60
47 4-Nitrophenol	109	15.511	15.504	(1.018)	172452	20.0000	20.26
48 2,4-Dinitrotoluene	165	15.697	15.682	(1.030)	599831	20.0000	21.23
50 Diethylphthalate	149	16.207	16.192	(1.064)	738623	10.0000	9.459
49 Fluorene	166	16.346	16.338	(1.073)	1334909	10.0000	9.312
51 4-Chlorophenyl-phenylether	204	16.338	16.331	(1.073)	599989	10.0000	9.531
52 4-Nitroaniline	138	16.446	16.424	(1.080)	520919	20.0000	20.90
53 4,6-Dinitro-2-methylphenol	198	16.547	16.532	(0.904)	724363	40.0000	40.44
54 N-Nitrosodiphenylamine	169	16.593	16.585	(0.907)	610576	10.0000	8.419
§ 55 2,4,6-Tribromophenol	330	16.894	16.886	(1.109)	179842	15.0000	15.03
56 4-Bromophenyl-phenylether	248	17.348	17.349	(0.948)	335282	10.0000	9.978
57 Hexachlorobenzene	284	17.673	17.666	(0.966)	285662	10.0000	9.733
58 Pentachlorophenol	266	18.037	18.038	(0.986)	156587	20.0000	20.42
* 59 Phenanthrene-d10	188	18.300	18.293	(1.000)	461222	4.00000	
60 Phenanthrene	178	18.347	18.339	(1.003)	1253301	10.0000	10.34
61 Anthracene	178	18.439	18.432	(1.008)	1373448	10.0000	10.64
62 Carbazole	167	18.772	18.773	(1.026)	1122728	10.0000	9.425
63 Di-n-butylphthalate	149	19.584	19.577	(1.070)	1927524	10.0000	9.992
64 Fluoranthene	202	20.753	20.753	(0.887)	2071939	10.0000	9.781
65 Pyrene	202	21.186	21.179	(0.905)	1875158	10.0000	9.994
§ 66 Terphenyl-d14	244	21.472	21.473	(0.918)	943604	10.0000	9.735
67 Butylbenzylphthalate	149	22.409	22.410	(0.958)	561536	10.0000	10.01
68 Benzo(a)anthracene	228	23.377	23.370	(0.999)	1164791	10.0000	9.897
* 69 Chrysene-d12	240	23.400	23.401	(1.000)	277750	4.00000	
70 3,3'-Dichlorobenzidine	252	23.331	23.323	(0.997)	922296	30.0000	24.05
71 Chrysene	228	23.455	23.447	(1.002)	899292	10.0000	10.20
72 bis(2-Ethylhexyl)phthalate	149	23.462	23.455	(0.959)	655958	10.0000	9.955
* 134 Di-n-octylphthalate-d4	153	24.476	24.476	(1.000)	596169	4.00000	
73 Di-n-octylphthalate	149	24.492	24.485	(1.001)	1350747	10.0000	9.968
74 Benzo(b)fluoranthene	252	25.328	25.313	(0.969)	1023409	10.0000	10.72
75 Benzo(k)fluoranthene	252	25.374	25.359	(0.971)	870295	10.0000	9.484
76 Benzo(a)pyrene	252	26.010	25.994	(0.996)	811139	10.0000	10.39
* 77 Perylene-d12	264	26.126	26.118	(1.000)	210708	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.938	28.916	(1.108)	828094	10.0000	9.930
79 Dibenzo(a,h)anthracene	278	28.954	28.931	(1.108)	611627	10.0000	9.581
80 Benzo(g,h,i)perylene	276	29.770	29.739	(1.139)	671433	10.0000	10.07
90 N-Nitrosodimethylamine	74	4.712	4.697	(0.517)	665133	20.0000	20.48
91 Aniline	93	8.567	8.560	(0.941)	1182814	20.0000	18.42
93 Benzidine	184	20.993	20.985	(0.897)	620382	20.0000	15.14
103 Pyridine	79	4.720	4.728	(0.518)	865428	10.0000	9.399
105 1-methylnaphthalene	142	13.267	13.260	(1.144)	1233513	10.0000	11.09
111 Azobenzene (1,2-DP-Hydrazine)	77	16.670	16.663	(1.094)	993229	10.0000	9.581

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
187 Total Benzofluoranthenes	252		25.328	25.359	(0.969)	1815810	20.0000	20.41
120 2,3,4,6-Tetrachlorophenol	232		15.975	15.968	(1.049)	232972	10.0000	10.44

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-JUN-2022
 Lab File ID: NT1022062305.D Calibration Time: 09:16
 Lab Smp Id: SKF0270-CAL6
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	155417	77709	310834	135958	-12.52
27 Naphthalene-d8	491185	245593	982370	444992	-9.40
42 Acenaphthene-d10	281977	140989	563954	259574	-7.94
59 Phenanthrene-d10	498577	249289	997154	461222	-7.49
69 Chrysene-d12	263544	131772	527088	277750	5.39
134 Di-n-octylphthala	453170	226585	906340	596169	31.56
77 Perylene-d12	174316	87158	348632	210708	20.88

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	-0.00
27 Naphthalene-d8	11.60	11.10	12.10	11.60	-0.00
42 Acenaphthene-d10	15.23	14.73	15.73	15.23	-0.00
59 Phenanthrene-d10	18.29	17.79	18.79	18.30	0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	-0.00
134 Di-n-octylphthala	24.47	23.97	24.97	24.48	0.03
77 Perylene-d12	26.13	25.63	26.63	26.13	-0.00

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

REVIEW SUMMARY FOR FILE - NT1022062305.D

Lab ID: SKF0270-CAL6
nt10.i, ABN.m, 23-JUN-2022 11:11

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.966	0.954	0.0124	Benzoic acid

RRT check based on Ccal File: NT1022062308.D

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

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

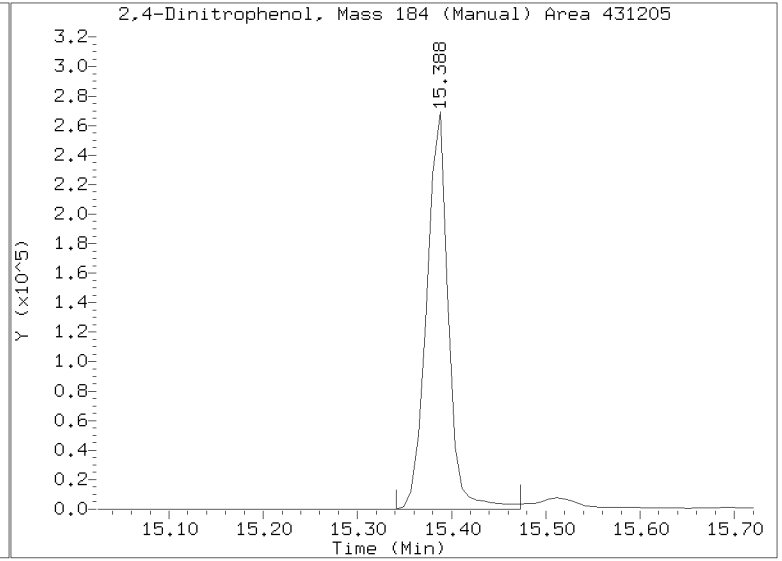
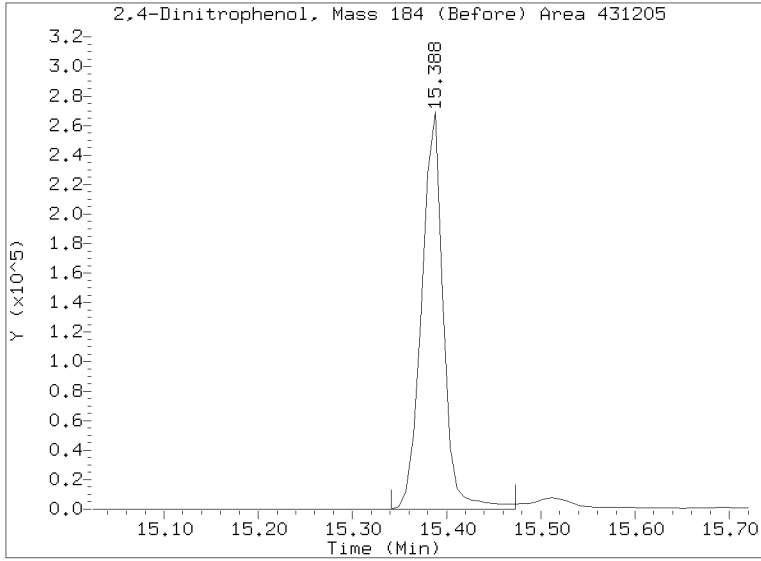
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220623.b/NT1022062305.D

Injection Date: 23-JUN-2022 11:11

Lab ID:SKF0270-CAL6 Client ID:

Report Date: 06/24/2022 08:36

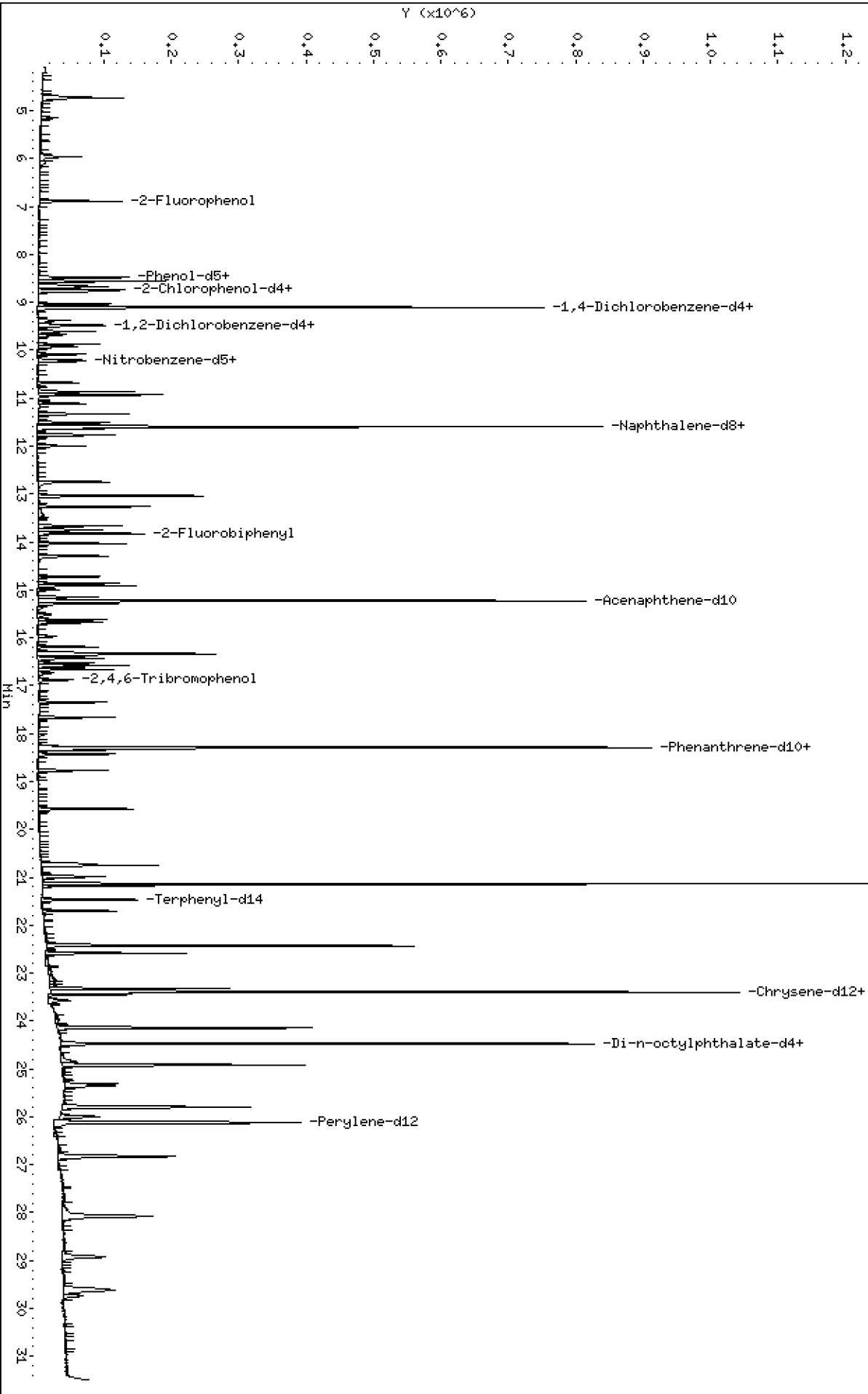


Data File: \\target\share\chem3\nt10.1\20220623.1\NT1022062306.D
Date: 23-JUN-2022 11:50
Client ID:
Sample Info: SKF0270-CAL2

Column phase: ZB-5msi

Instrument: nt10.1
Operator: VTS
Column diameter: 0.25

\\target\share\chem3\nt10.1\20220623.1\NT1022062306.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220623.b\NT1022062306.D
 Lab Smp Id: SKF0270-CAL2
 Inj Date : 23-JUN-2022 11:50
 Operator : VTS
 Smp Info : SKF0270-CAL2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Meth Date : 24-Jun-2022 08:34 yev
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT1022062308.D
 Calibration Sample, Level: 2
 Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.891	6.883	(0.756)	61282	0.75000	0.7740
\$ 2 Phenol-d5	99		8.475	8.475	(0.930)	78838	0.75000	0.6711
3 Phenol	94		8.498	8.497	(0.933)	51793	0.50000	0.5059
\$ 5 2-Chlorophenol-d4	132		8.745	8.745	(0.960)	59915	0.75000	0.7427
4 Bis(2-Chloroethyl)ether	93		8.645	8.645	(0.949)	37048	0.50000	0.5029
6 2-Chlorophenol	128		8.776	8.776	(0.963)	41126	0.50000	0.5039
7 1,3-Dichlorobenzene	146		9.039	9.040	(0.992)	47221	0.50000	0.5349
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.102	(1.000)	216832	4.00000	
9 1,4-Dichlorobenzene	146		9.140	9.133	(1.003)	34704	0.50000	0.4988
\$ 10 1,2-Dichlorobenzene-d4	152		9.466	9.466	(1.039)	24658	0.50000	0.4960
12 1,2-Dichlorobenzene	146		9.489	9.490	(1.042)	37473	0.50000	0.5073
11 Benzyl alcohol	108		9.380	9.373	(1.030)	17409	0.50000	0.4269
14 2,2'-oxybis(1-Chloropropane)	121		9.675	9.676	(1.062)	8856	0.50000	0.5070
13 2-Methylphenol	108		9.613	9.606	(1.055)	32123	0.50000	0.5089
17 Hexachloroethane	117		10.087	10.087	(1.107)	15134	0.50000	0.4879
16 N-Nitroso-di-n-propylamine	70		9.932	9.924	(1.090)	22790	0.50000	0.5192
15 4-Methylphenol	108		9.877	9.878	(1.084)	34027	0.50000	0.5045
\$ 18 Nitrobenzene-d5	82		10.195	10.196	(0.879)	35108	0.50000	0.4813
19 Nitrobenzene	77		10.234	10.235	(0.883)	35834	0.50000	0.4874
20 Isophorone	82		10.677	10.677	(0.921)	45616	0.50000	0.4289
21 2-Nitrophenol	139		10.868	10.868	(0.937)	20167	0.50000	0.4343
22 2,4-Dimethylphenol	107		10.927	10.928	(0.942)	59348	1.00000	1.052
23 Bis(2-Chloroethoxy)methane	93		11.114	11.114	(0.958)	34240	0.50000	0.5358
24 Benzoic acid	105		11.046	11.064	(0.953)	16272	2.00000	0.5596 (MH)
25 2,4-Dichlorophenol	162		11.326	11.327	(0.977)	56849	1.00000	0.9915
26 1,2,4-Trichlorobenzene	180		11.511	11.512	(0.993)	32790	0.50000	0.5328
* 27 Naphthalene-d8	136		11.596	11.597	(1.000)	685569	4.00000	
28 Naphthalene	128		11.635	11.635	(1.003)	81228	0.50000	0.4629
29 4-Chloroaniline	127		11.766	11.767	(1.015)	61715	1.00000	0.7966
30 Hexachlorobutadiene	225		11.998	11.998	(1.035)	14451	0.50000	0.4922
31 4-Chloro-3-methylphenol	107		12.749	12.749	(1.099)	45423	1.00000	0.6718
32 2-Methylnaphthalene	142		13.043	13.043	(1.125)	75909	0.50000	0.4353
33 Hexachlorocyclopentadiene	237		13.507	13.508	(0.887)	2609	1.00000	0.1293

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.670	13.670	(0.898)	32271	1.00000	0.8024
35 2,4,5-Trichlorophenol	196	13.747	13.747	(0.903)	32038	1.00000	0.6634
\$ 36 2-Fluorobiphenyl	172	13.824	13.825	(0.908)	81036	0.50000	0.5061
37 2-Chloronaphthalene	162	14.041	14.034	(0.922)	69344	0.50000	0.4912
38 2-Nitroaniline	65	14.296	14.297	(0.939)	31649	1.00000	0.8382
39 Dimethylphthalate	163	14.730	14.730	(0.967)	69974	0.50000	0.5639
40 Acenaphthylene	152	14.916	14.908	(0.980)	110613	0.50000	0.5348
41 2,6-Dinitrotoluene	165	14.869	14.870	(0.977)	29049	1.00000	1.008
* 42 Acenaphthene-d10	164	15.225	15.226	(1.000)	353855	4.00000	
43 3-Nitroaniline	138	15.155	15.156	(0.995)	31207	1.00000	0.9198
44 Acenaphthene	153	15.295	15.295	(1.005)	47527	0.50000	0.4618
45 2,4-Dinitrophenol	184	15.372	15.372	(1.010)	2886	2.00000	0.2260
46 Dibenzofuran	168	15.627	15.627	(1.026)	76810	0.50000	0.4696
47 4-Nitrophenol	109	15.519	15.504	(1.019)	6606	1.00000	0.5963
48 2,4-Dinitrotoluene	165	15.681	15.682	(1.030)	33223	1.00000	0.8625
50 Diethylphthalate	149	16.191	16.192	(1.063)	55904	0.50000	0.5252
49 Fluorene	166	16.346	16.338	(1.074)	105026	0.50000	0.5374
51 4-Chlorophenyl-phenylether	204	16.331	16.331	(1.073)	44884	0.50000	0.5230
52 4-Nitroaniline	138	16.431	16.424	(1.079)	33703	1.00000	0.9918
53 4,6-Dinitro-2-methylphenol	198	16.531	16.532	(0.904)	25336	2.00000	1.014
54 N-Nitrosodiphenylamine	169	16.585	16.585	(0.907)	55869	0.50000	0.5578
\$ 55 2,4,6-Tribromophenol	330	16.886	16.886	(1.109)	7895	0.75000	0.4948
56 4-Bromophenyl-phenylether	248	17.348	17.349	(0.948)	22245	0.50000	0.4793
57 Hexachlorobenzene	284	17.665	17.666	(0.966)	25122	0.50000	0.5644
58 Pentachlorophenol	266	18.037	18.038	(0.986)	2044	1.00000	0.2143
* 59 Phenanthrene-d10	188	18.292	18.293	(1.000)	636992	4.00000	
60 Phenanthrene	178	18.339	18.339	(1.003)	77448	0.50000	0.4628
61 Anthracene	178	18.432	18.432	(1.008)	79868	0.50000	0.4478
62 Carbazole	167	18.772	18.773	(1.026)	77360	0.50000	0.4702
63 Di-n-butylphthalate	149	19.577	19.577	(1.070)	98413	0.50000	0.3987
64 Fluoranthene	202	20.745	20.753	(0.887)	115483	0.50000	0.3866
65 Pyrene	202	21.178	21.179	(0.905)	113683	0.50000	0.4348
\$ 66 Terphenyl-d14	244	21.472	21.473	(0.918)	76477	0.50000	0.5171
67 Butylbenzylphthalate	149	22.409	22.410	(0.958)	44278	0.50000	0.5171
68 Benzo(a)anthracene	228	23.369	23.370	(0.999)	92497	0.50000	0.5150
* 69 Chrysene-d12	240	23.393	23.401	(1.000)	423840	4.00000	
70 3,3'-Dichlorobenzidine	252	23.323	23.323	(0.997)	92636	1.50000	1.583
71 Chrysene	228	23.439	23.447	(1.002)	52304	0.50000	0.4388
72 bis(2-Ethylhexyl)phthalate	149	23.462	23.455	(0.959)	32979	0.50000	0.4808
* 134 Di-n-octylphthalate-d4	153	24.476	24.476	(1.000)	620564	4.00000	
73 Di-n-octylphthalate	149	24.484	24.485	(1.000)	69363	0.50000	0.4918
74 Benzo(b)fluoranthene	252	25.312	25.313	(0.969)	54353	0.50000	0.4582
75 Benzo(k)fluoranthene	252	25.359	25.359	(0.971)	58637	0.50000	0.5141
76 Benzo(a)pyrene	252	25.994	25.994	(0.995)	43862	0.50000	0.4518
* 77 Perylene-d12	264	26.118	26.118	(1.000)	261902	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.923	28.916	(1.107)	51654	0.50000	0.4984
79 Dibenzo(a,h)anthracene	278	28.931	28.931	(1.108)	41178	0.50000	0.5190
80 Benzo(g,h,i)perylene	276	29.738	29.739	(1.139)	38389	0.50000	0.4633
90 N-Nitrosodimethylamine	74	4.705	4.697	(0.517)	49576	1.00000	0.9570
91 Aniline	93	8.560	8.560	(0.940)	115998	1.00000	1.133
93 Benzidine	184	20.985	20.985	(0.897)	75111	1.00000	1.201
103 Pyridine	79	4.736	4.728	(0.520)	74924	0.50000	0.5102
105 1-methylnaphthalene	142	13.267	13.260	(1.144)	75711	0.50000	0.4419
111 Azobenzene (1,2-DP-Hydrazine)	77	16.662	16.663	(1.094)	73453	0.50000	0.5197

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
187 Total Benzofluoranthenes	252	25.312	25.359	(0.969)	106821	1.00000	0.9659	
120 2,3,4,6-Tetrachlorophenol	232	15.967	15.968	(1.049)	7918	0.50000	0.2534	

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-JUN-2022
 Lab File ID: NT1022062306.D Calibration Time: 09:16
 Lab Smp Id: SKF0270-CAL2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	155417	77709	310834	216832	39.52
27 Naphthalene-d8	491185	245593	982370	685569	39.57
42 Acenaphthene-d10	281977	140989	563954	353855	25.49
59 Phenanthrene-d10	498577	249289	997154	636992	27.76
69 Chrysene-d12	263544	131772	527088	423840	60.82
134 Di-n-octylphthala	453170	226585	906340	620564	36.94
77 Perylene-d12	174316	87158	348632	261902	50.25

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	-0.00
27 Naphthalene-d8	11.60	11.10	12.10	11.60	-0.00
42 Acenaphthene-d10	15.23	14.73	15.73	15.23	-0.05
59 Phenanthrene-d10	18.29	17.79	18.79	18.29	-0.00
69 Chrysene-d12	23.40	22.90	23.90	23.39	-0.03
134 Di-n-octylphthala	24.47	23.97	24.97	24.48	0.03
77 Perylene-d12	26.13	25.63	26.63	26.12	-0.03

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

REVIEW SUMMARY FOR FILE - NT1022062306.D

Lab ID: SKF0270-CAL2
nt10.i, ABN.m, 23-JUN-2022 11:50

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022062308.D

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

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

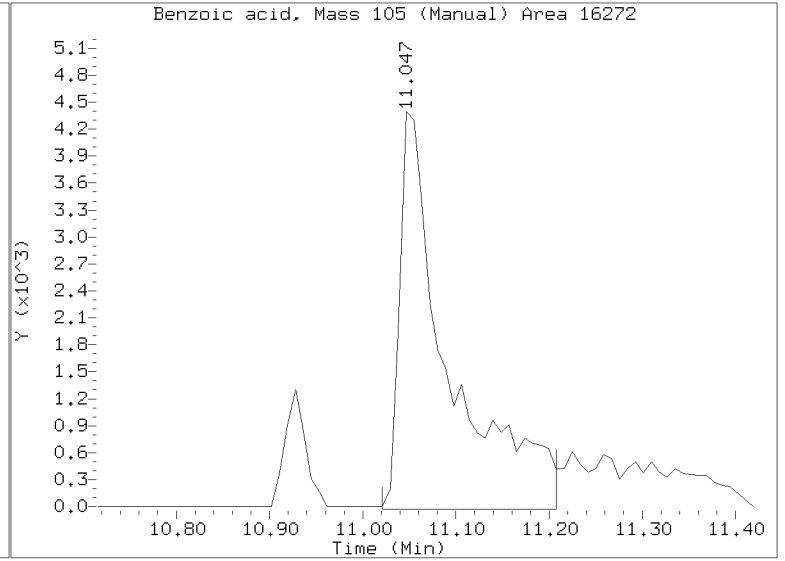
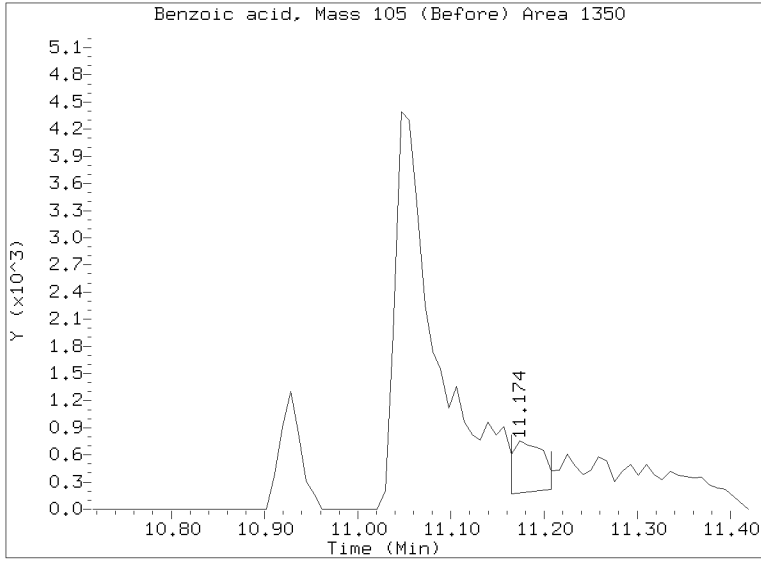
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220623.b/NT1022062306.D

Injection Date: 23-JUN-2022 11:50

Lab ID:SKF0270-CAL2 Client ID:

Report Date: 06/24/2022 08:36



Data File: \\target\share\chem3\nt10.1\20220623.16\NT1022062307.D

Date: 23-JUN-2022 12:29

Client ID:

Sample Info: SKF0270-CAL4

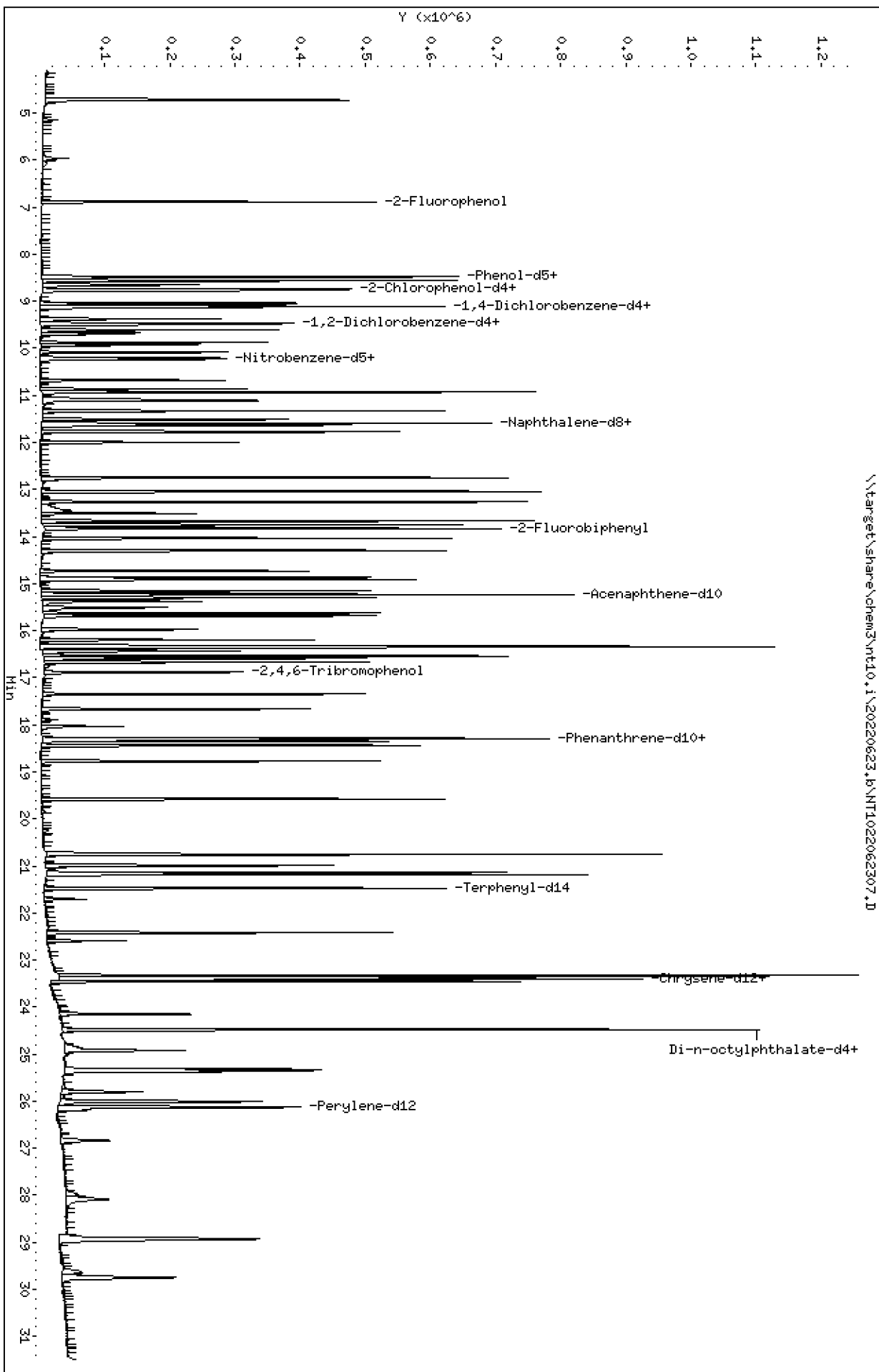
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220623.b\NT1022062307.D
 Lab Smp Id: SKF0270-CAL4
 Inj Date : 23-JUN-2022 12:29
 Operator : VTS
 Smp Info : SKF0270-CAL4
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Meth Date : 24-Jun-2022 08:34 yev
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT1022062308.D
 Calibration Sample, Level: 4
 Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.890	6.883	(0.756)	251312	3.75000	4.011
\$ 2 Phenol-d5	99		8.474	8.475	(0.930)	368978	3.75000	3.969
3 Phenol	94		8.498	8.497	(0.933)	212719	2.50000	2.626
\$ 5 2-Chlorophenol-d4	132		8.745	8.745	(0.960)	243281	3.75000	3.811
4 Bis(2-Chloroethyl)ether	93		8.652	8.645	(0.950)	146206	2.50000	2.508
6 2-Chlorophenol	128		8.776	8.776	(0.963)	159971	2.50000	2.477
7 1,3-Dichlorobenzene	146		9.047	9.040	(0.993)	176381	2.50000	2.525
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.102	(1.000)	171593	4.00000	
9 1,4-Dichlorobenzene	146		9.140	9.133	(1.003)	140425	2.50000	2.550
\$ 10 1,2-Dichlorobenzene-d4	152		9.466	9.466	(1.039)	102943	2.50000	2.617
12 1,2-Dichlorobenzene	146		9.497	9.490	(1.043)	148245	2.50000	2.536
11 Benzyl alcohol	108		9.380	9.373	(1.030)	83980	2.50000	2.602
14 2,2'-oxybis(1-Chloropropane)	121		9.675	9.676	(1.062)	33608	2.50000	2.431
13 2-Methylphenol	108		9.613	9.606	(1.055)	124410	2.50000	2.491
17 Hexachloroethane	117		10.087	10.087	(1.107)	60566	2.50000	2.467
16 N-Nitroso-di-n-propylamine	70		9.931	9.924	(1.090)	89073	2.50000	2.564
15 4-Methylphenol	108		9.877	9.878	(1.084)	136782	2.50000	2.562
\$ 18 Nitrobenzene-d5	82		10.203	10.196	(0.880)	154198	2.50000	2.608
19 Nitrobenzene	77		10.234	10.235	(0.883)	147670	2.50000	2.478
20 Isophorone	82		10.684	10.677	(0.921)	219337	2.50000	2.544
21 2-Nitrophenol	139		10.868	10.868	(0.937)	99756	2.50000	2.650
22 2,4-Dimethylphenol	107		10.927	10.928	(0.942)	244478	5.00000	5.347
23 Bis(2-Chloroethoxy)methane	93		11.114	11.114	(0.958)	119922	2.50000	2.316
24 Benzoic acid	105		11.097	11.064	(0.957)	175321	10.0000	7.348
25 2,4-Dichlorophenol	162		11.334	11.327	(0.977)	246169	5.00000	5.298
26 1,2,4-Trichlorobenzene	180		11.511	11.512	(0.993)	121923	2.50000	2.444
* 27 Naphthalene-d8	136		11.596	11.597	(1.000)	555613	4.00000	
28 Naphthalene	128		11.642	11.635	(1.004)	353186	2.50000	2.484
29 4-Chloroaniline	127		11.774	11.767	(1.015)	307736	5.00000	4.901
30 Hexachlorobutadiene	225		12.005	11.998	(1.035)	62208	2.50000	2.614
31 4-Chloro-3-methylphenol	107		12.748	12.749	(1.099)	258509	5.00000	4.668
32 2-Methylnaphthalene	142		13.043	13.043	(1.125)	360121	2.50000	2.548
33 Hexachlorocyclopentadiene	237		13.515	13.508	(0.887)	58265	5.00000	3.152

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.669	13.670	(0.897)	186578	5.00000	5.150
35 2,4,5-Trichlorophenol	196	13.754	13.747	(0.903)	189477	5.00000	4.371
§ 36 2-Fluorobiphenyl	172	13.832	13.825	(0.908)	387154	2.50000	2.684
37 2-Chloronaphthalene	162	14.041	14.034	(0.922)	323601	2.50000	2.545
38 2-Nitroaniline	65	14.296	14.297	(0.939)	173971	5.00000	5.114
39 Dimethylphthalate	163	14.730	14.730	(0.967)	289201	2.50000	2.587
40 Acenaphthylene	152	14.916	14.908	(0.979)	507529	2.50000	2.724
41 2,6-Dinitrotoluene	165	14.877	14.870	(0.977)	133956	5.00000	5.159
* 42 Acenaphthene-d10	164	15.233	15.226	(1.000)	318777	4.00000	
43 3-Nitroaniline	138	15.155	15.156	(0.995)	158007	5.00000	5.170
44 Acenaphthene	153	15.302	15.295	(1.005)	230526	2.50000	2.487
45 2,4-Dinitrophenol	184	15.379	15.372	(1.010)	74917	10.0000	6.418 (M)
46 Dibenzofuran	168	15.627	15.627	(1.026)	380151	2.50000	2.580
47 4-Nitrophenol	109	15.511	15.504	(1.018)	44797	5.00000	4.450
48 2,4-Dinitrotoluene	165	15.689	15.682	(1.030)	179066	5.00000	5.160
50 Diethylphthalate	149	16.199	16.192	(1.063)	253620	2.50000	2.645
49 Fluorene	166	16.346	16.338	(1.073)	441383	2.50000	2.507
51 4-Chlorophenyl-phenylether	204	16.338	16.331	(1.073)	194528	2.50000	2.516
52 4-Nitroaniline	138	16.431	16.424	(1.079)	124230	5.00000	4.058
53 4,6-Dinitro-2-methylphenol	198	16.539	16.532	(0.904)	198043	10.0000	8.910
54 N-Nitrosodiphenylamine	169	16.593	16.585	(0.907)	226128	2.50000	2.532
§ 55 2,4,6-Tribromophenol	330	16.886	16.886	(1.109)	51241	3.75000	3.549
56 4-Bromophenyl-phenylether	248	17.348	17.349	(0.948)	104856	2.50000	2.534
57 Hexachlorobenzene	284	17.673	17.666	(0.966)	101607	2.50000	2.621
58 Pentachlorophenol	266	18.037	18.038	(0.986)	26726	5.00000	3.103
* 59 Phenanthrene-d10	188	18.292	18.293	(1.000)	567888	4.00000	
60 Phenanthrene	178	18.346	18.339	(1.003)	366587	2.50000	2.457
61 Anthracene	178	18.439	18.432	(1.008)	396442	2.50000	2.493
62 Carbazole	167	18.772	18.773	(1.026)	388731	2.50000	2.650
63 Di-n-butylphthalate	149	19.576	19.577	(1.070)	529822	2.50000	2.374
64 Fluoranthene	202	20.753	20.753	(0.887)	582487	2.50000	2.123
65 Pyrene	202	21.178	21.179	(0.905)	558362	2.50000	2.319
§ 66 Terphenyl-d14	244	21.472	21.473	(0.918)	339184	2.50000	2.530
67 Butylbenzylphthalate	149	22.417	22.410	(0.958)	186235	2.50000	2.400
68 Benzo(a)anthracene	228	23.377	23.370	(0.999)	403027	2.50000	2.476
* 69 Chrysene-d12	240	23.400	23.401	(1.000)	384194	4.00000	
70 3,3'-Dichlorobenzidine	252	23.330	23.323	(0.997)	433686	7.50000	8.175
71 Chrysene	228	23.447	23.447	(1.002)	253904	2.50000	2.303
72 bis(2-Ethylhexyl)phthalate	149	23.462	23.455	(0.959)	174043	2.50000	2.415
* 134 Di-n-octylphthalate-d4	153	24.476	24.476	(1.000)	651920	4.00000	
73 Di-n-octylphthalate	149	24.492	24.485	(1.001)	371739	2.50000	2.509
74 Benzo(b)fluoranthene	252	25.320	25.313	(0.969)	291088	2.50000	2.413
75 Benzo(k)fluoranthene	252	25.367	25.359	(0.971)	292928	2.50000	2.525
76 Benzo(a)pyrene	252	26.009	25.994	(0.996)	247635	2.50000	2.508
* 77 Perylene-d12	264	26.125	26.118	(1.000)	266368	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.923	28.916	(1.107)	264069	2.50000	2.505
79 Dibenzo(a,h)anthracene	278	28.938	28.931	(1.108)	200870	2.50000	2.489
80 Benzo(g,h,i)perylene	276	29.754	29.739	(1.139)	217065	2.50000	2.576
90 N-Nitrosodimethylamine	74	4.705	4.697	(0.517)	212091	5.00000	5.173
91 Aniline	93	8.559	8.560	(0.940)	415426	5.00000	5.127
93 Benzidine	184	20.992	20.985	(0.897)	317142	5.00000	5.595
103 Pyridine	79	4.728	4.728	(0.519)	284232	2.50000	2.446
105 1-methylnaphthalene	142	13.267	13.260	(1.144)	355873	2.50000	2.563
111 Azobenzene (1,2-DP-Hydrazine)	77	16.670	16.663	(1.094)	322348	2.50000	2.532

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
187 Total Benzofluoranthenes	252		25.320	25.359	(0.969)	557245	5.00000	4.954
120 2,3,4,6-Tetrachlorophenol	232		15.975	15.968	(1.049)	59028	2.50000	2.108

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-JUN-2022
 Lab File ID: NT1022062307.D Calibration Time: 09:16
 Lab Smp Id: SKF0270-CAL4
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	155417	77709	310834	171593	10.41
27 Naphthalene-d8	491185	245593	982370	555613	13.12
42 Acenaphthene-d10	281977	140989	563954	318777	13.05
59 Phenanthrene-d10	498577	249289	997154	567888	13.90
69 Chrysene-d12	263544	131772	527088	384194	45.78
134 Di-n-octylphthala	453170	226585	906340	651920	43.86
77 Perylene-d12	174316	87158	348632	266368	52.81

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	-0.00
27 Naphthalene-d8	11.60	11.10	12.10	11.60	-0.00
42 Acenaphthene-d10	15.23	14.73	15.73	15.23	-0.00
59 Phenanthrene-d10	18.29	17.79	18.79	18.29	-0.00
69 Chrysene-d12	23.40	22.90	23.90	23.40	-0.00
134 Di-n-octylphthala	24.47	23.97	24.97	24.48	0.03
77 Perylene-d12	26.13	25.63	26.63	26.13	-0.00

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

REVIEW SUMMARY FOR FILE - NT1022062307.D

Lab ID: SKF0270-CAL4
nt10.i, ABN.m, 23-JUN-2022 12:29

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022062308.D

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

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

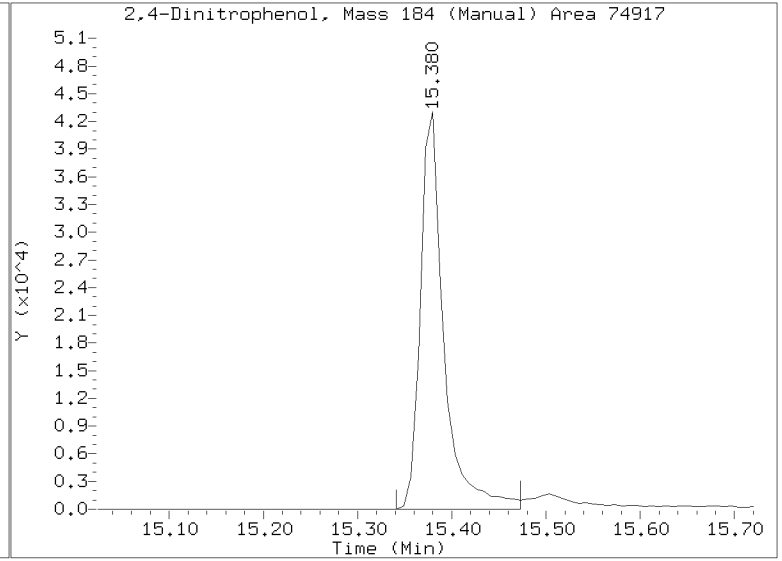
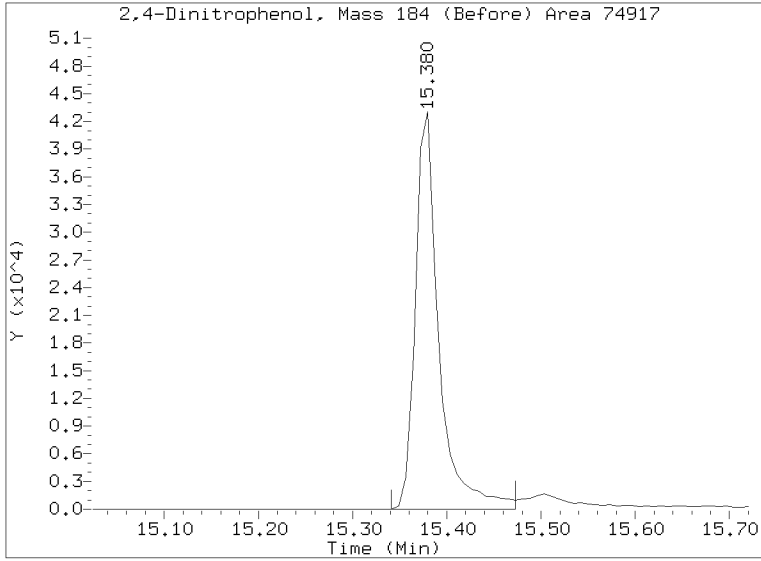
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220623.b/NT1022062307.D

Injection Date: 23-JUN-2022 12:29

Lab ID:SKF0270-CAL4 Client ID:

Report Date: 06/24/2022 08:37



Data File: \\target\share\chem3\nt10.1\20220623.1\NT1022062308.D

Date: 23-JUN-2022 13:07

Client ID:

Sample Info: SKF0270-CAL3

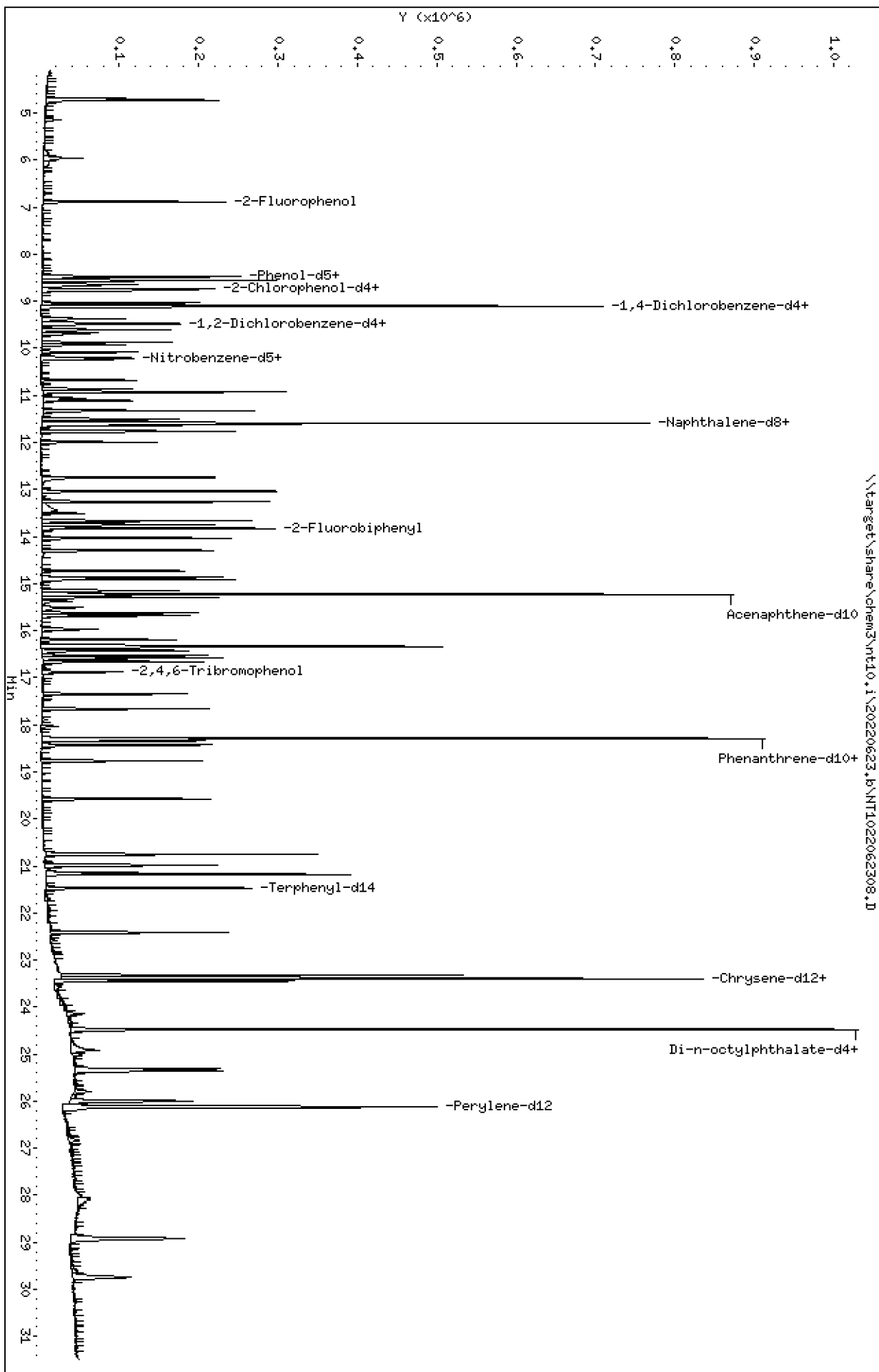
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220623.b\NT1022062308.D
 Lab Smp Id: SKF0270-CAL3
 Inj Date : 23-JUN-2022 13:07
 Operator : VTS
 Smp Info : SKF0270-CAL3
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Meth Date : 24-Jun-2022 08:34 yev
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT1022062308.D
 Calibration Sample, Level: 3
 Compound Sublist: ICAL.sub

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 1 2-Fluorophenol	112	6.883	6.883	(0.756)	109371	1.50000	1.521
\$ 2 Phenol-d5	99	8.475	8.475	(0.931)	143241	1.50000	1.342
3 Phenol	94	8.498	8.497	(0.934)	93172	1.00000	1.002
\$ 5 2-Chlorophenol-d4	132	8.745	8.745	(0.961)	105118	1.50000	1.434
4 Bis(2-Chloroethyl)ether	93	8.645	8.645	(0.950)	69602	1.00000	1.040
6 2-Chlorophenol	128	8.776	8.776	(0.964)	74304	1.00000	1.002
7 1,3-Dichlorobenzene	146	9.039	9.040	(0.993)	82570	1.00000	1.030
* 8 1,4-Dichlorobenzene-d4	152	9.101	9.102	(1.000)	196951	4.00000	
9 1,4-Dichlorobenzene	146	9.132	9.133	(1.003)	61231	1.00000	0.9688
\$ 10 1,2-Dichlorobenzene-d4	152	9.466	9.466	(1.040)	44450	1.00000	0.9844
12 1,2-Dichlorobenzene	146	9.489	9.490	(1.043)	67210	1.00000	1.002
11 Benzyl alcohol	108	9.373	9.373	(1.030)	35126	1.00000	0.9483
14 2,2'-oxybis(1-Chloropropane)	121	9.675	9.676	(1.063)	16343	1.00000	1.030
13 2-Methylphenol	108	9.606	9.606	(1.055)	56769	1.00000	0.9902
17 Hexachloroethane	117	10.087	10.087	(1.108)	26778	1.00000	0.9505
16 N-Nitroso-di-n-propylamine	70	9.924	9.924	(1.090)	39221	1.00000	0.9837
15 4-Methylphenol	108	9.877	9.878	(1.085)	61049	1.00000	0.9964
\$ 18 Nitrobenzene-d5	82	10.195	10.196	(0.879)	64121	1.00000	0.9504
19 Nitrobenzene	77	10.234	10.235	(0.883)	63329	1.00000	0.9313
20 Isophorone	82	10.677	10.677	(0.921)	84583	1.00000	0.8599
21 2-Nitrophenol	139	10.868	10.868	(0.937)	42416	1.00000	0.9876
22 2,4-Dimethylphenol	107	10.927	10.928	(0.942)	107608	2.00000	2.062
23 Bis(2-Chloroethoxy)methane	93	11.114	11.114	(0.958)	59067	1.00000	0.9995
24 Benzoic acid	105	11.063	11.064	(0.954)	41871	4.00000	1.554
25 2,4-Dichlorophenol	162	11.326	11.327	(0.977)	104426	2.00000	1.969
26 1,2,4-Trichlorobenzene	180	11.511	11.512	(0.993)	56911	1.00000	0.9999
* 27 Naphthalene-d8	136	11.596	11.597	(1.000)	634040	4.00000	
28 Naphthalene	128	11.635	11.635	(1.003)	149978	1.00000	0.9242
29 4-Chloroaniline	127	11.766	11.767	(1.015)	125326	2.00000	1.749
30 Hexachlorobutadiene	225	11.998	11.998	(1.035)	26295	1.00000	0.9684
31 4-Chloro-3-methylphenol	107	12.749	12.749	(1.099)	90206	2.00000	1.440
32 2-Methylnaphthalene	142	13.043	13.043	(1.125)	140334	1.00000	0.8702
33 Hexachlorocyclopentadiene	237	13.507	13.508	(0.887)	11058	2.00000	0.5733

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.670	13.670	(0.898)	65299	2.00000	1.702
35 2,4,5-Trichlorophenol	196	13.747	13.747	(0.903)	70179	2.00000	1.525
\$ 36 2-Fluorobiphenyl	172	13.824	13.825	(0.908)	151419	1.00000	0.9914
37 2-Chloronaphthalene	162	14.033	14.034	(0.922)	129032	1.00000	0.9584
38 2-Nitroaniline	65	14.296	14.297	(0.939)	64553	2.00000	1.792
39 Dimethylphthalate	163	14.730	14.730	(0.967)	125139	1.00000	1.057
40 Acenaphthylene	152	14.908	14.908	(0.979)	216699	1.00000	1.098
41 2,6-Dinitrotoluene	165	14.869	14.870	(0.977)	54200	2.00000	1.972
* 42 Acenaphthene-d10	164	15.225	15.226	(1.000)	337503	4.00000	
43 3-Nitroaniline	138	15.155	15.156	(0.995)	62118	2.00000	1.920
44 Acenaphthene	153	15.295	15.295	(1.005)	90651	1.00000	0.9235
45 2,4-Dinitrophenol	184	15.372	15.372	(1.010)	13016	4.00000	1.066 (M)
46 Dibenzofuran	168	15.627	15.627	(1.026)	147860	1.00000	0.9479
47 4-Nitrophenol	109	15.503	15.504	(1.018)	14046	2.00000	1.327
48 2,4-Dinitrotoluene	165	15.681	15.682	(1.030)	65455	2.00000	1.782
50 Diethylphthalate	149	16.191	16.192	(1.063)	104075	1.00000	1.025
49 Fluorene	166	16.338	16.338	(1.073)	187182	1.00000	1.004
51 4-Chlorophenyl-phenylether	204	16.331	16.331	(1.073)	78018	1.00000	0.9531
52 4-Nitroaniline	138	16.423	16.424	(1.079)	68144	2.00000	2.102
53 4,6-Dinitro-2-methylphenol	198	16.531	16.532	(0.904)	60131	4.00000	2.599
54 N-Nitrosodiphenylamine	169	16.585	16.585	(0.907)	99211	1.00000	1.069
\$ 55 2,4,6-Tribromophenol	330	16.886	16.886	(1.109)	18510	1.50000	1.215
56 4-Bromophenyl-phenylether	248	17.348	17.349	(0.948)	42042	1.00000	0.9778
57 Hexachlorobenzene	284	17.665	17.666	(0.966)	45982	1.00000	1.122
58 Pentachlorophenol	266	18.037	18.038	(0.986)	5380	2.00000	0.6078
* 59 Phenanthrene-d10	188	18.292	18.293	(1.000)	590158	4.00000	
60 Phenanthrene	178	18.339	18.339	(1.003)	144404	1.00000	0.9314
61 Anthracene	178	18.432	18.432	(1.008)	152732	1.00000	0.9244
62 Carbazole	167	18.772	18.773	(1.026)	152093	1.00000	0.9978
63 Di-n-butylphthalate	149	19.577	19.577	(1.070)	187086	1.00000	0.8157
64 Fluoranthene	202	20.753	20.753	(0.887)	219365	1.00000	0.6825
65 Pyrene	202	21.178	21.179	(0.905)	228765	1.00000	0.8125
\$ 66 Terphenyl-d14	244	21.472	21.473	(0.918)	147109	1.00000	0.9265
67 Butylbenzylphthalate	149	22.409	22.410	(0.958)	77102	1.00000	0.8388
68 Benzo(a)anthracene	228	23.369	23.370	(0.999)	182227	1.00000	0.9452
* 69 Chrysene-d12	240	23.400	23.401	(1.000)	454991	4.00000	
70 3,3'-Dichlorobenzidine	252	23.323	23.323	(0.997)	188423	3.00000	2.999
71 Chrysene	228	23.447	23.447	(1.002)	123360	1.00000	0.9588
72 bis(2-Ethylhexyl)phthalate	149	23.455	23.455	(0.958)	73449	1.00000	0.9082
* 134 Di-n-octylphthalate-d4	153	24.476	24.476	(1.000)	731655	4.00000	
73 Di-n-octylphthalate	149	24.484	24.485	(1.000)	162602	1.00000	0.9778
74 Benzo(b)fluoranthene	252	25.313	25.313	(0.969)	134312	1.00000	0.8982
75 Benzo(k)fluoranthene	252	25.359	25.359	(0.971)	143678	1.00000	0.9992
76 Benzo(a)pyrene	252	25.994	25.994	(0.995)	117913	1.00000	0.9634
* 77 Perylene-d12	264	26.118	26.118	(1.000)	330191	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.915	28.916	(1.107)	119442	1.00000	0.9140
79 Dibenzo(a,h)anthracene	278	28.931	28.931	(1.108)	92605	1.00000	0.9257
80 Benzo(g,h,i)perylene	276	29.738	29.739	(1.139)	98493	1.00000	0.9429
90 N-Nitrosodimethylamine	74	4.697	4.697	(0.516)	94032	2.00000	1.998
91 Aniline	93	8.560	8.560	(0.941)	200024	2.00000	2.151
93 Benzidine	184	20.985	20.985	(0.897)	156905	2.00000	2.338
103 Pyridine	79	4.728	4.728	(0.520)	134440	1.00000	1.008
105 1-methylnaphthalene	142	13.259	13.260	(1.143)	141971	1.00000	0.8960
111 Azobenzene (1,2-DP-Hydrazine)	77	16.662	16.663	(1.094)	134643	1.00000	0.9989

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252		25.359	25.359	(0.971)	265864	2.00000	1.907
120 2,3,4,6-Tetrachlorophenol	232		15.967	15.968	(1.049)	17778	1.00000	0.5971

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-JUN-2022
 Lab File ID: NT1022062308.D Calibration Time: 09:16
 Lab Smp Id: SKF0270-CAL3
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	155417	77709	310834	196951	26.72
27 Naphthalene-d8	491185	245593	982370	634040	29.08
42 Acenaphthene-d10	281977	140989	563954	337503	19.69
59 Phenanthrene-d10	498577	249289	997154	590158	18.37
69 Chrysene-d12	263544	131772	527088	454991	72.64
134 Di-n-octylphthala	453170	226585	906340	731655	61.45
77 Perylene-d12	174316	87158	348632	330191	89.42

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.09
27 Naphthalene-d8	11.60	11.10	12.10	11.60	-0.00
42 Acenaphthene-d10	15.23	14.73	15.73	15.23	-0.05
59 Phenanthrene-d10	18.29	17.79	18.79	18.29	-0.00
69 Chrysene-d12	23.40	22.90	23.90	23.40	-0.00
134 Di-n-octylphthala	24.47	23.97	24.97	24.48	0.03
77 Perylene-d12	26.13	25.63	26.63	26.12	-0.03

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

REVIEW SUMMARY FOR FILE - NT1022062308.D

Lab ID: SKF0270-CAL3
nt10.i, ABN.m, 23-JUN-2022 13:07

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022062308.D

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

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

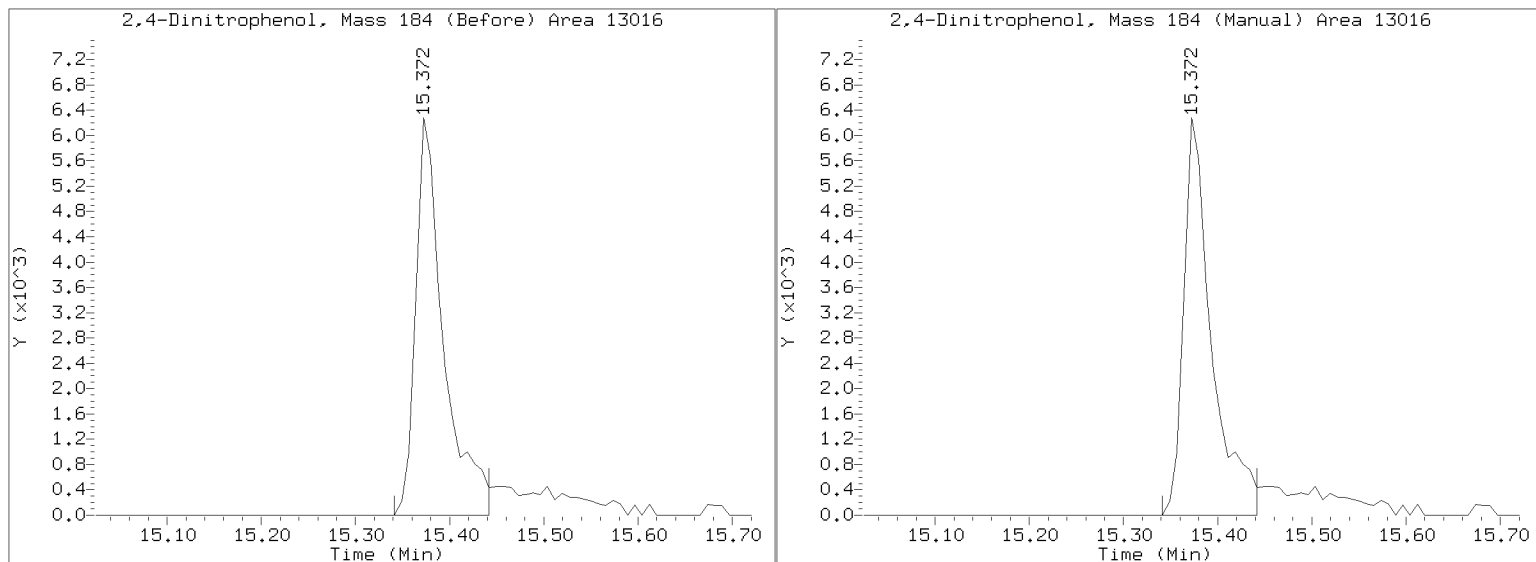
Quant Ion Manual Peak Adjustment Report

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Injection Date: 23-JUN-2022 13:07

Lab ID:SKF0270-CAL3 Client ID:

Report Date: 06/24/2022 08:37



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Date: 23-JUN-2022 15:20

Client ID:

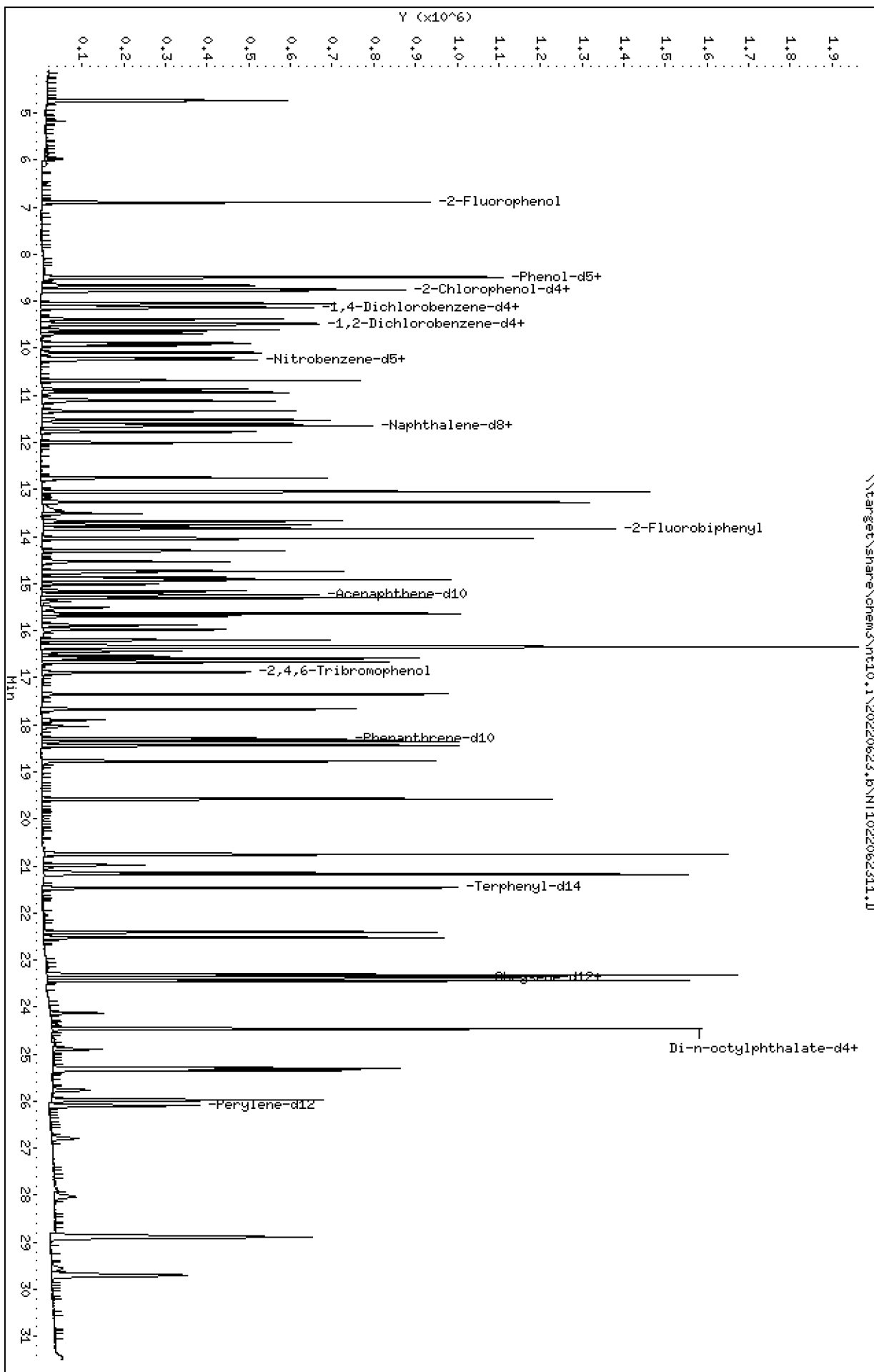
Sample Info: SKF0270-SCW1

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

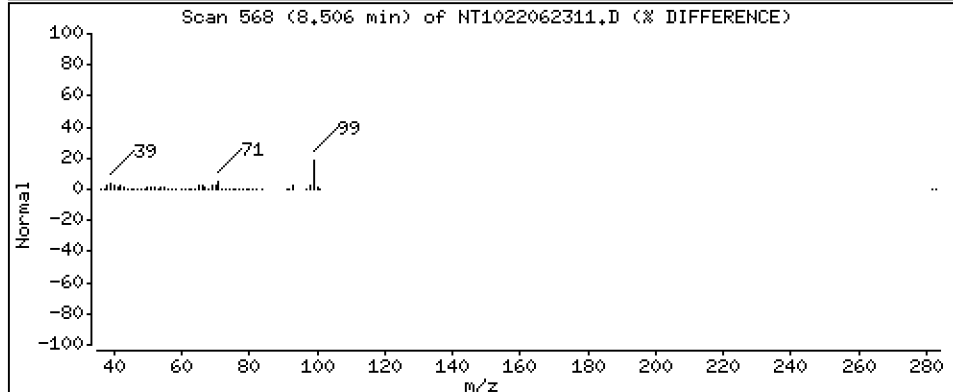
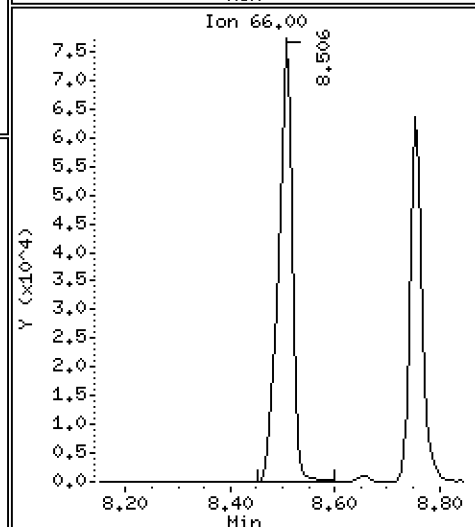
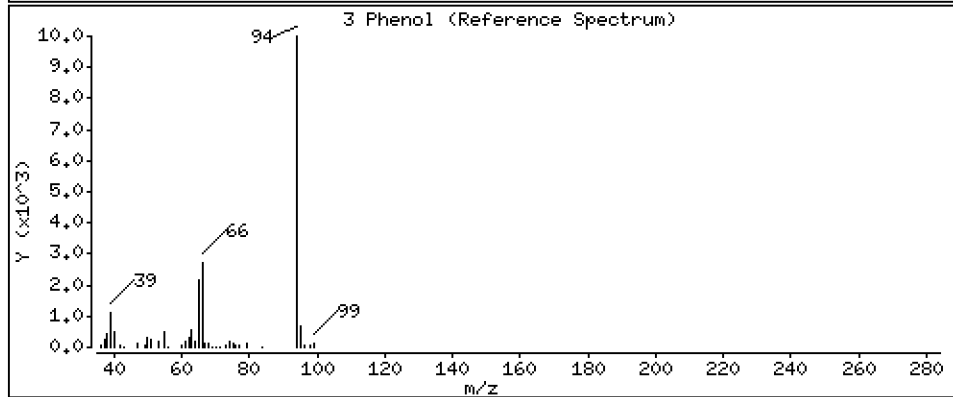
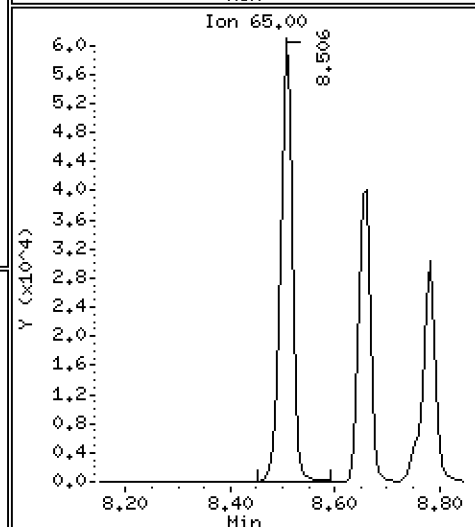
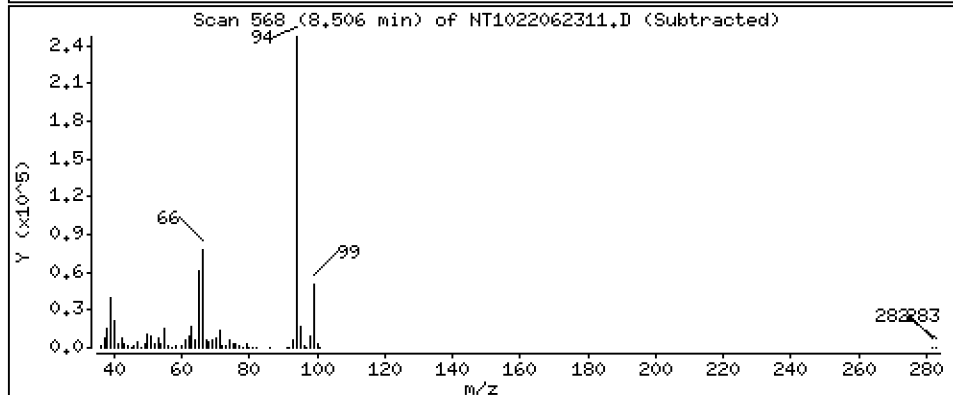
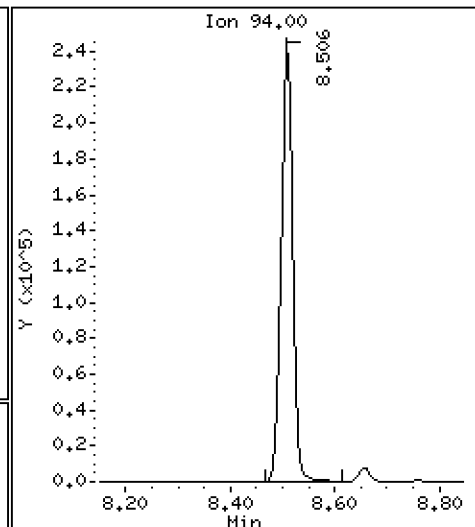
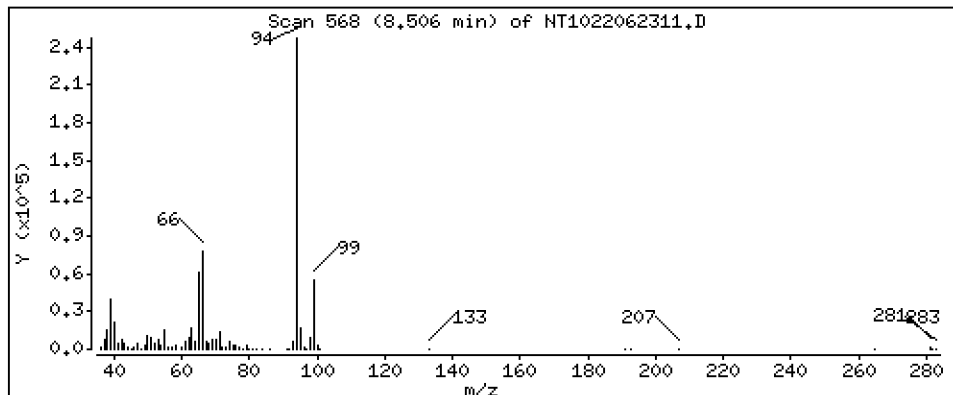
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 5,135 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

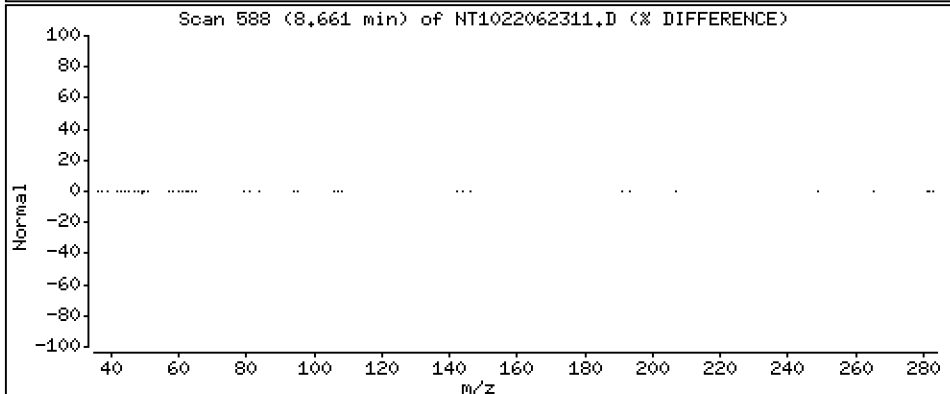
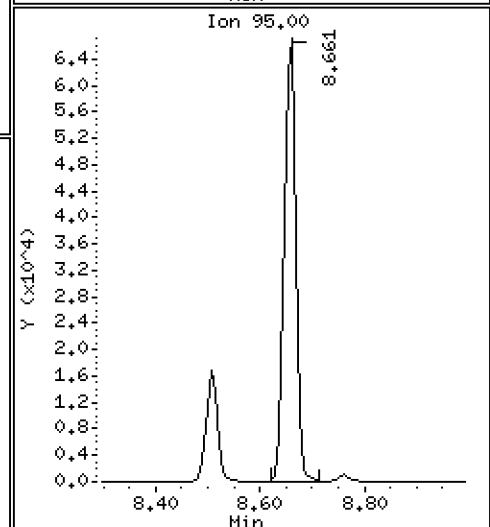
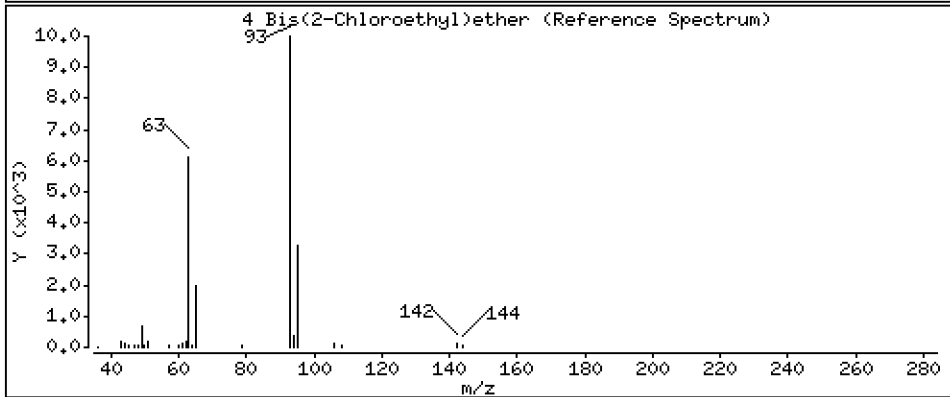
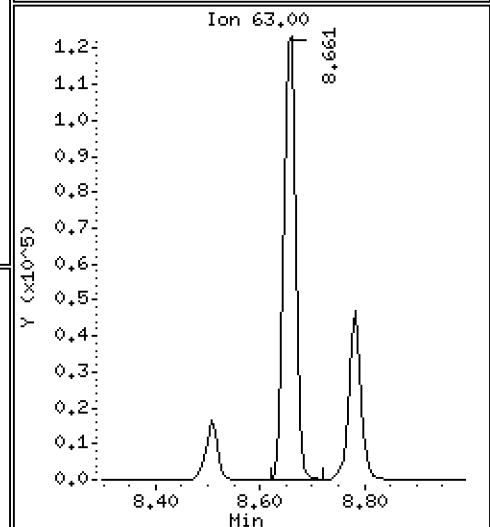
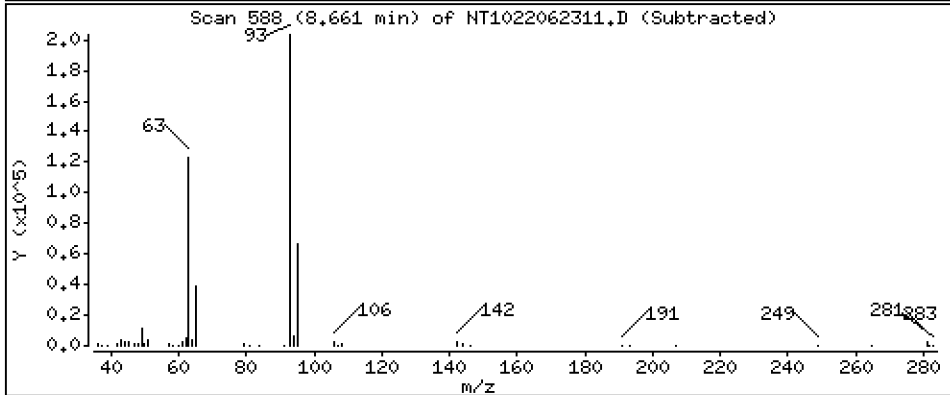
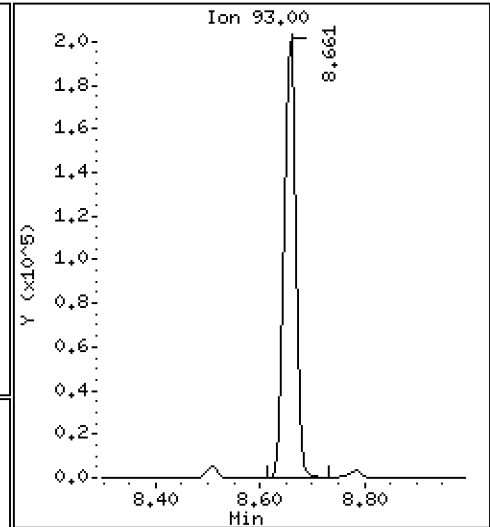
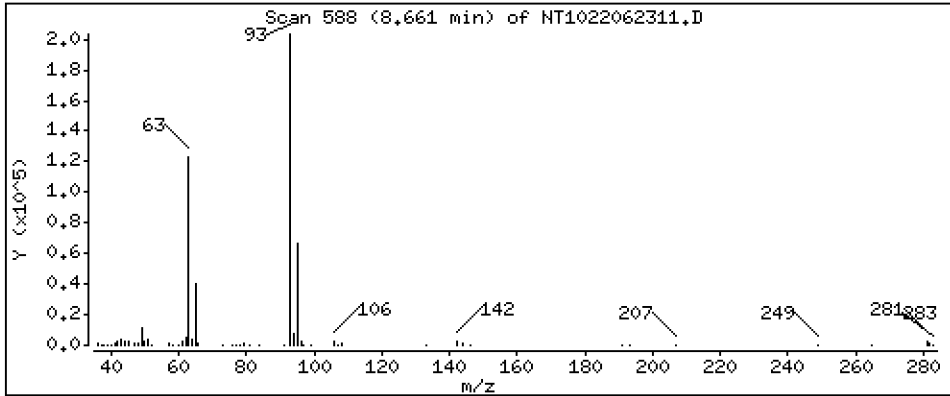
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,792 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

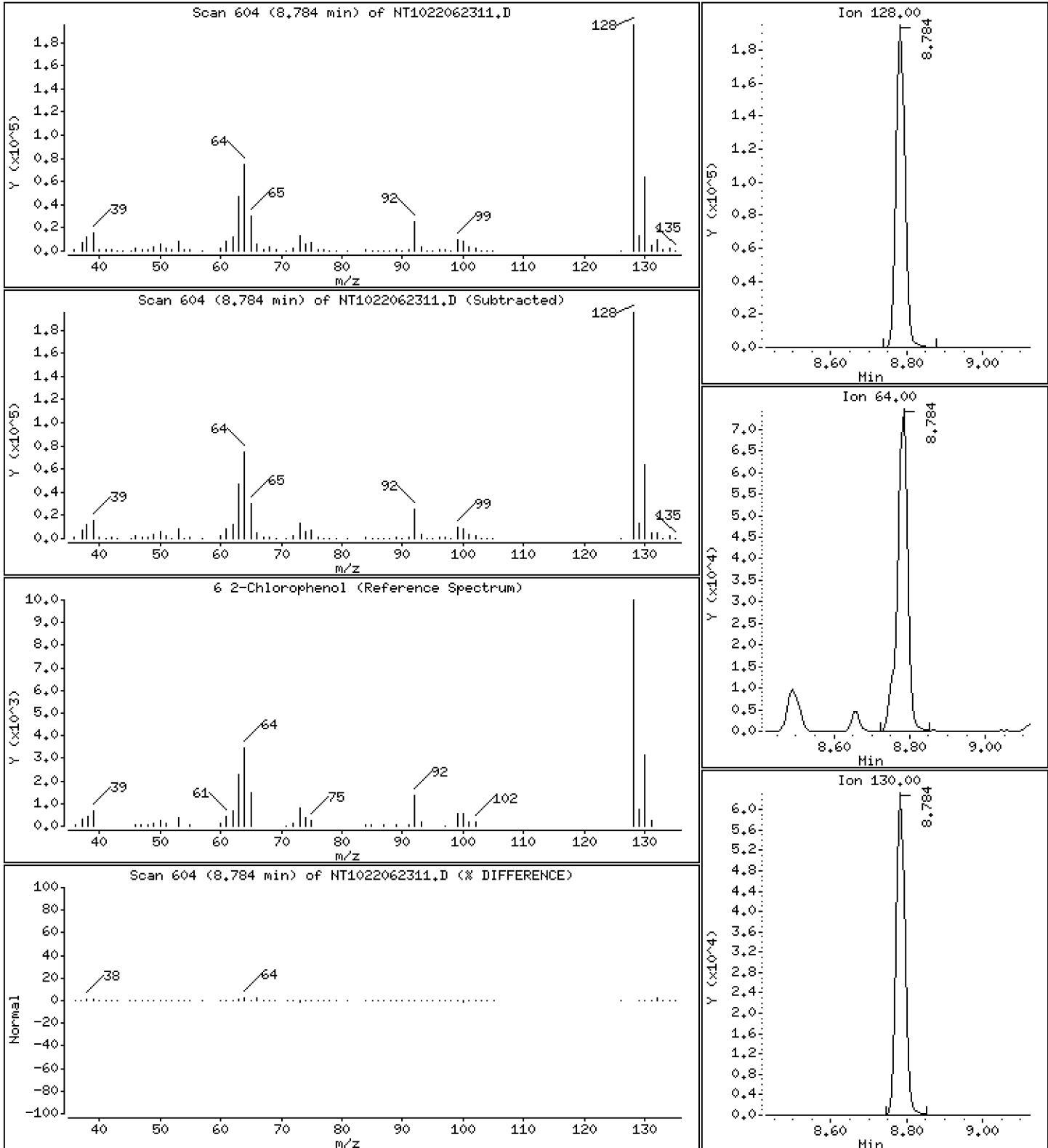
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 5,199 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

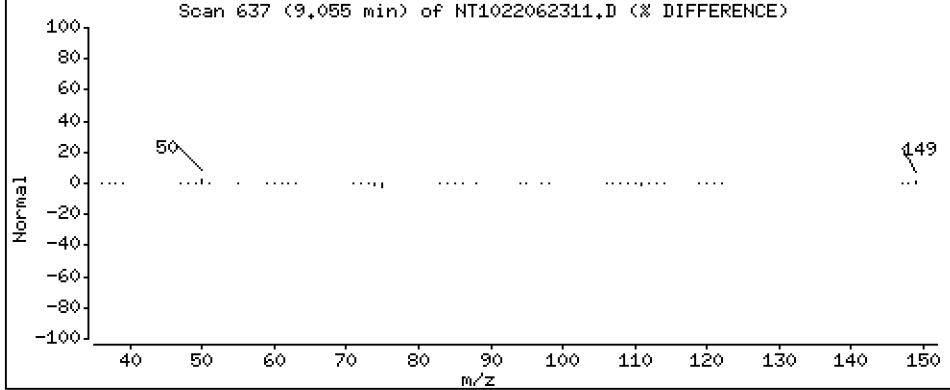
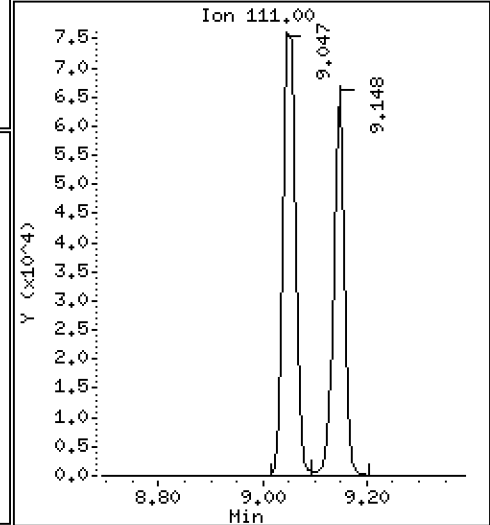
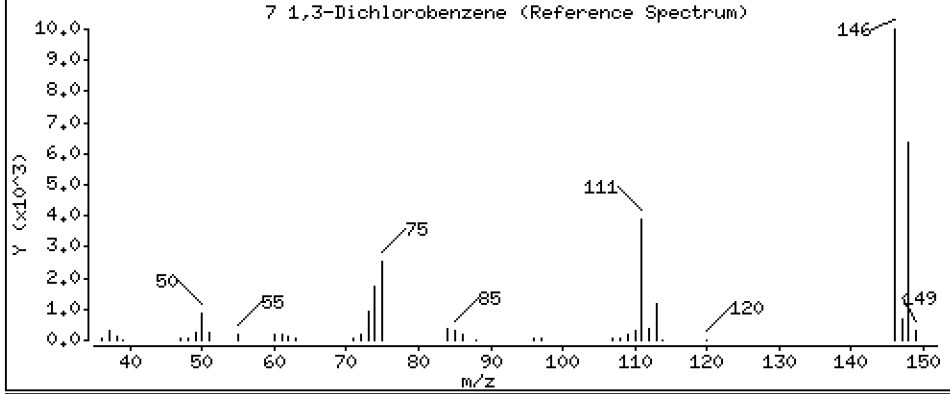
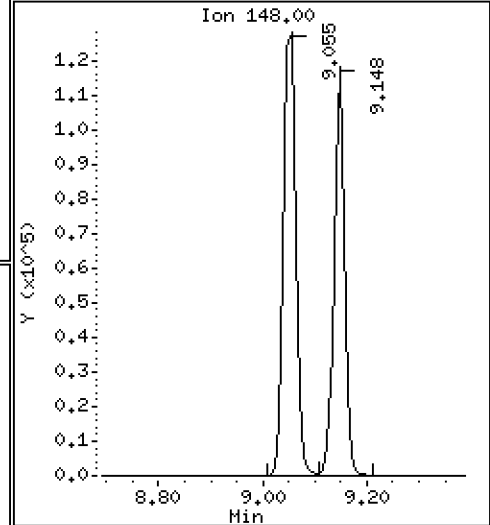
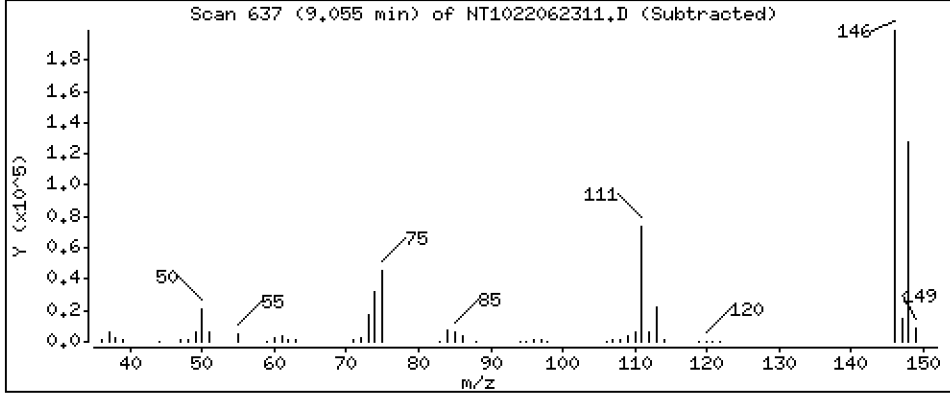
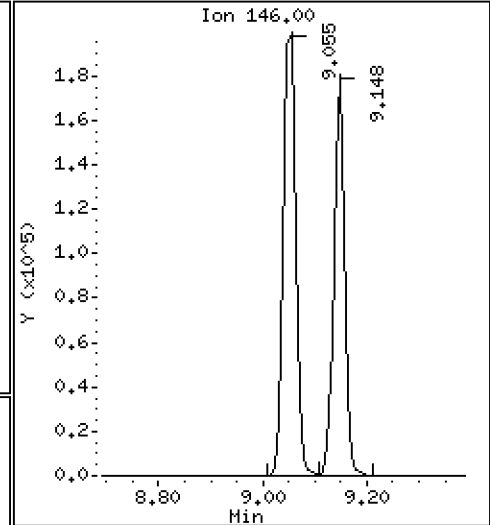
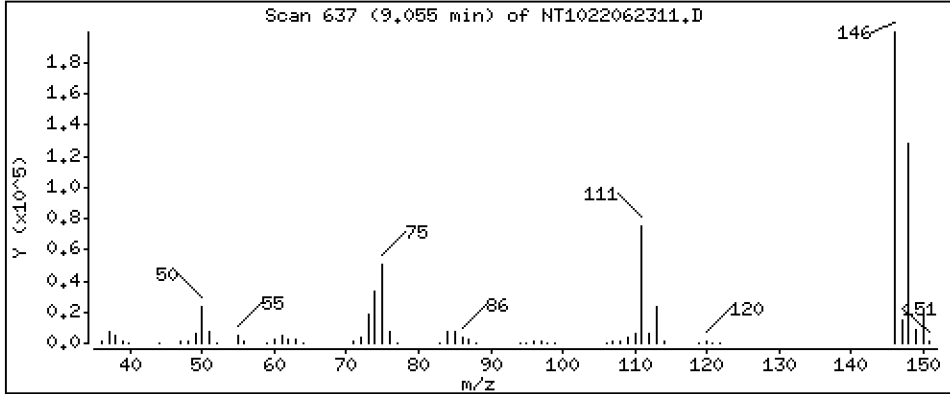
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 5,014 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

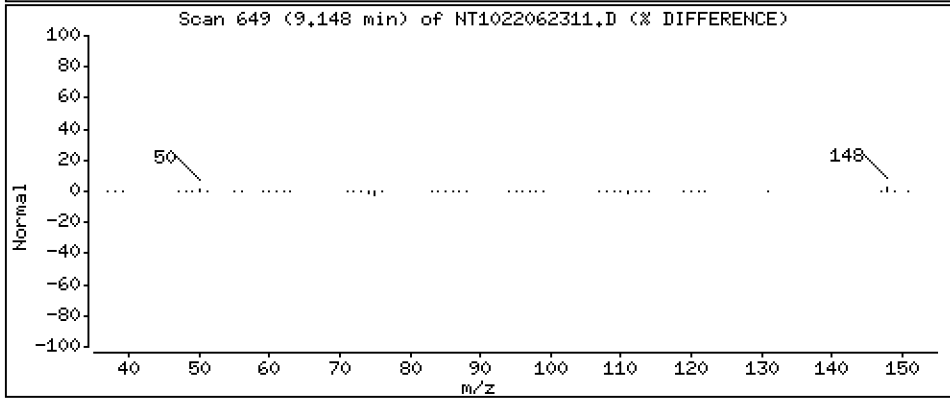
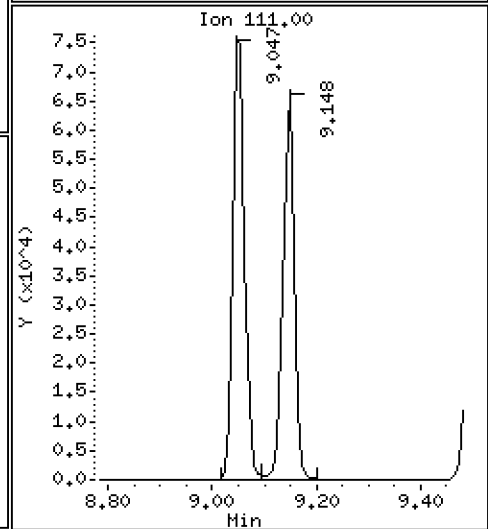
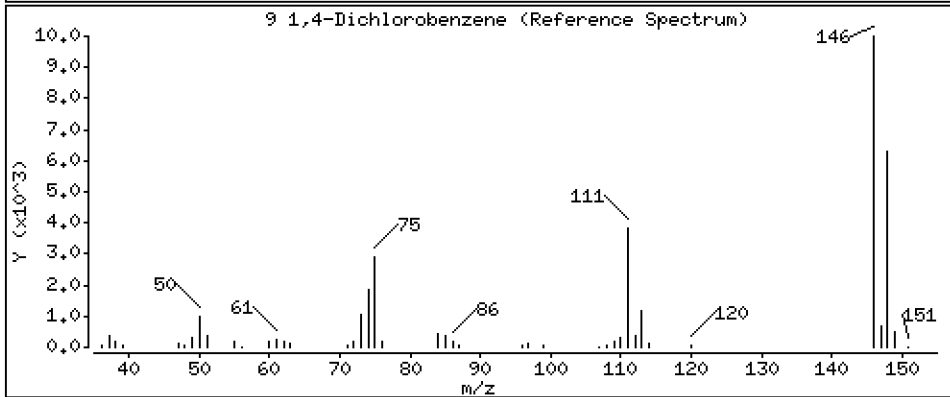
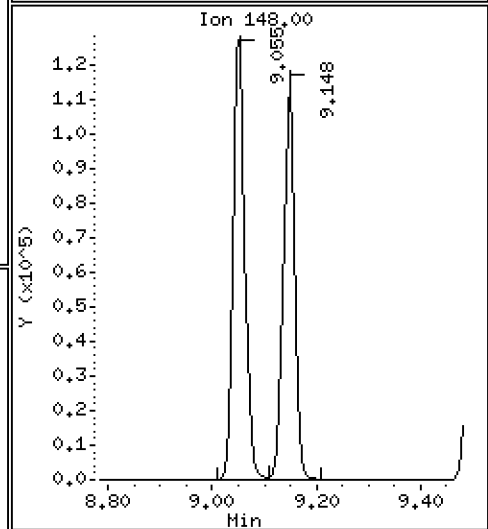
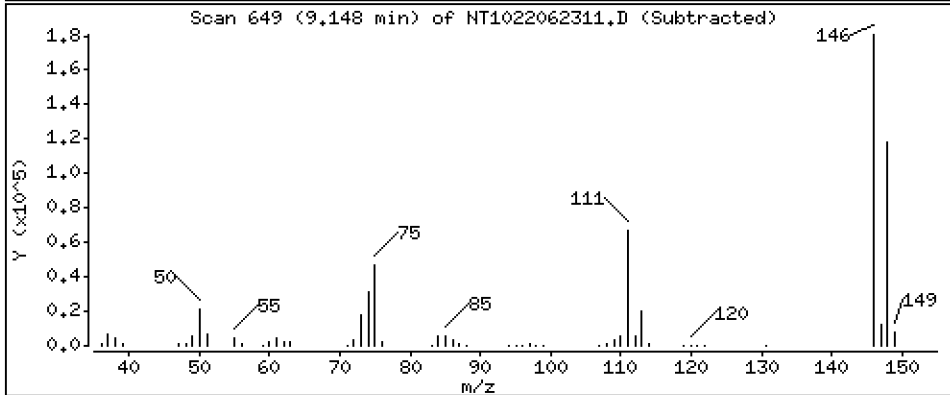
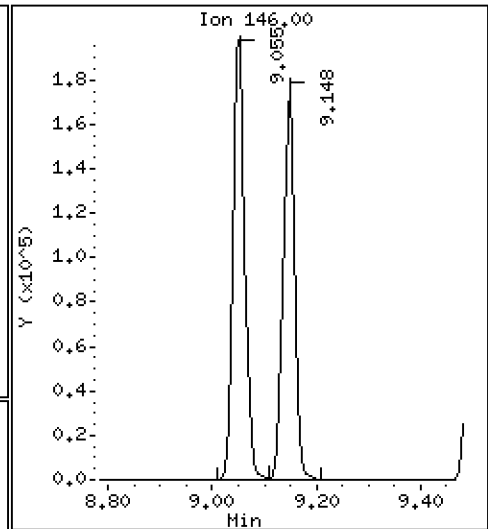
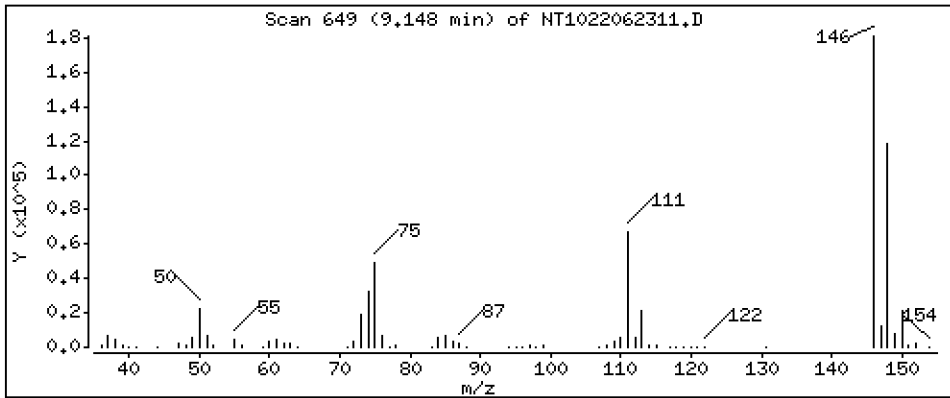
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 5,297 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

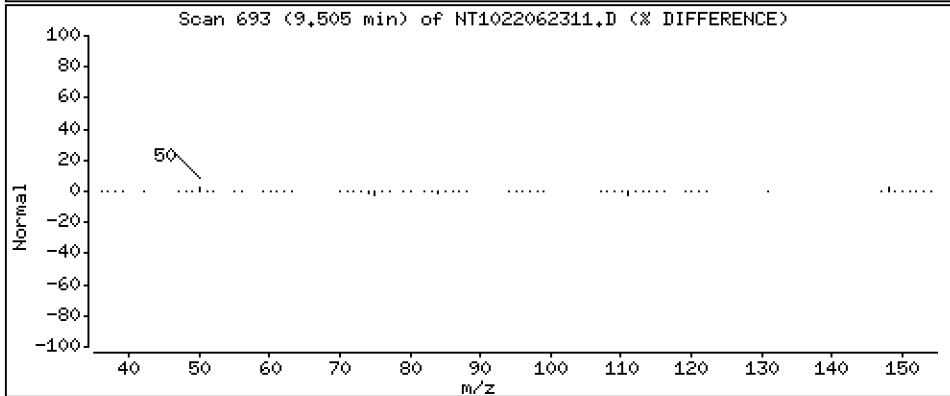
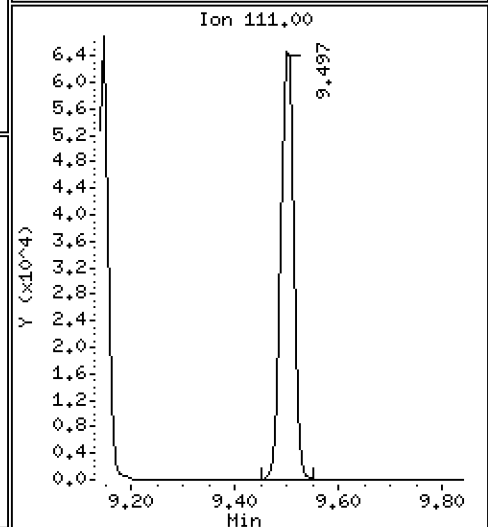
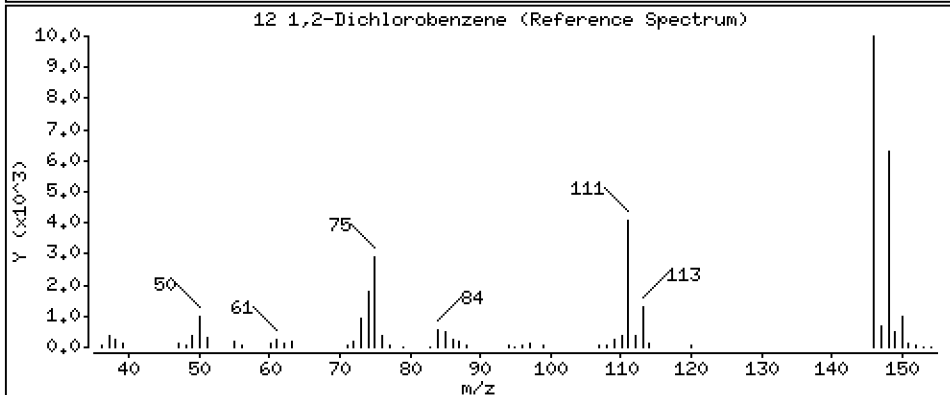
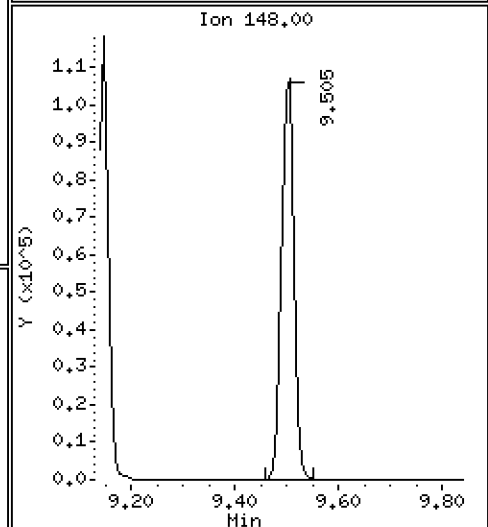
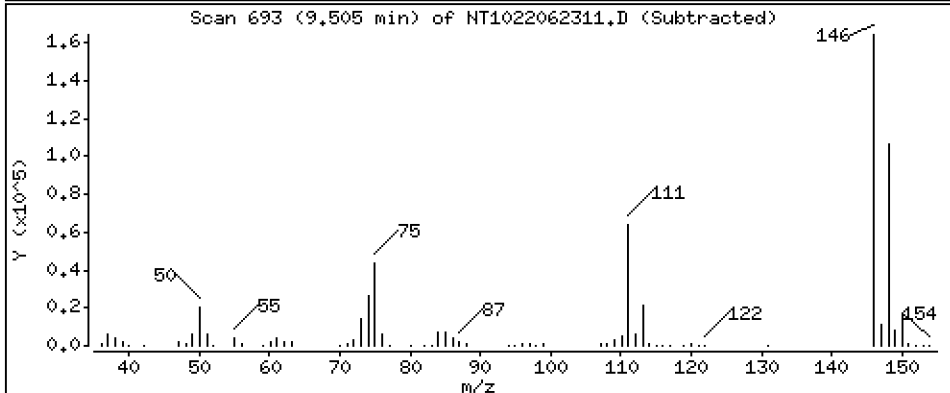
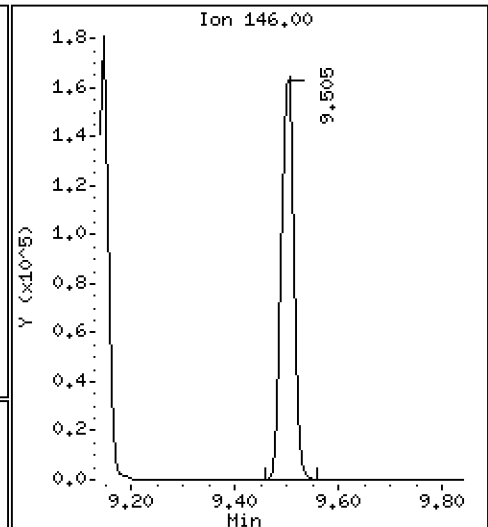
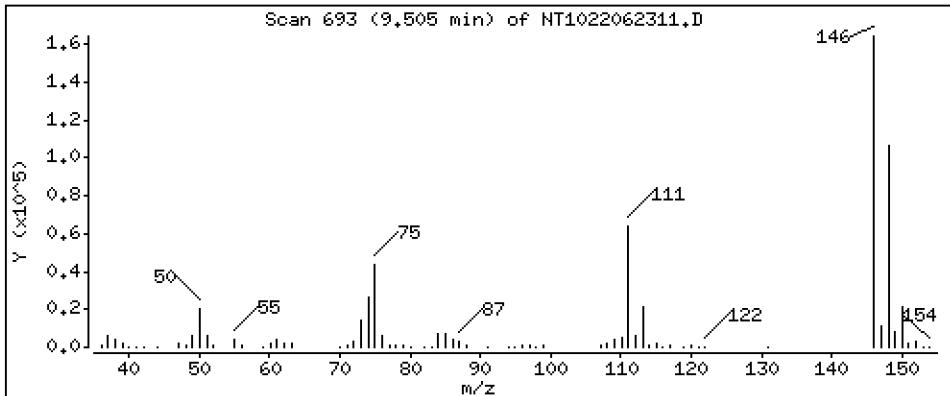
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 5,087 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

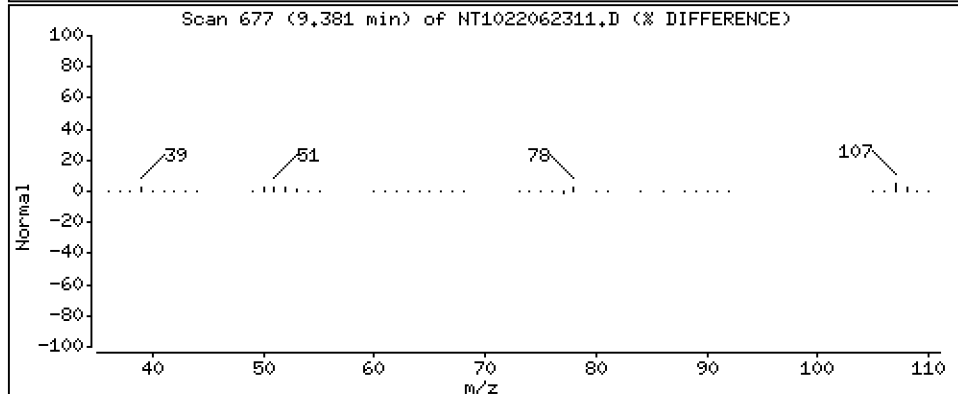
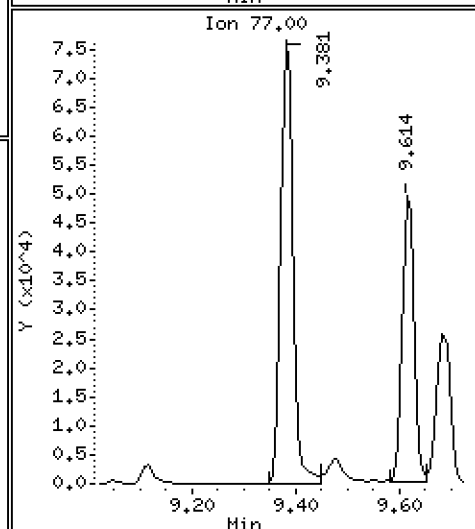
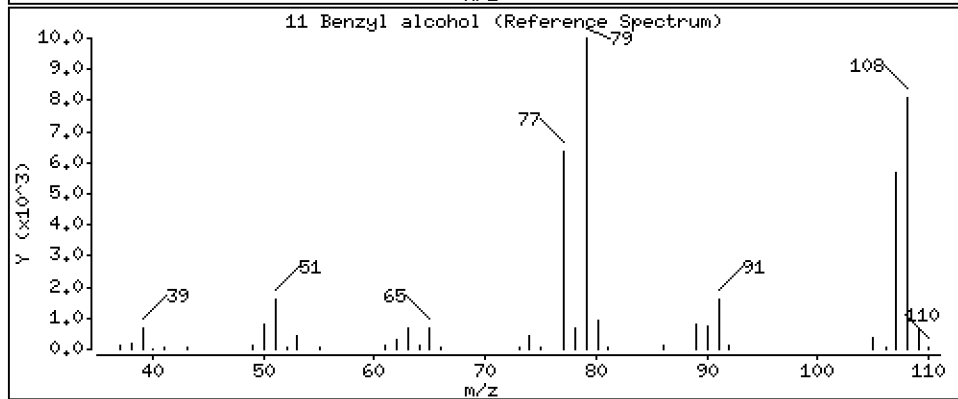
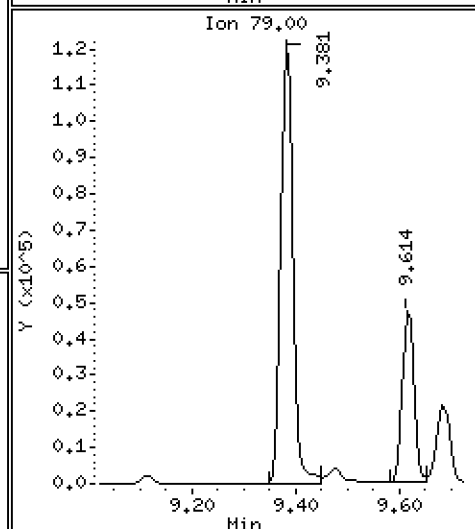
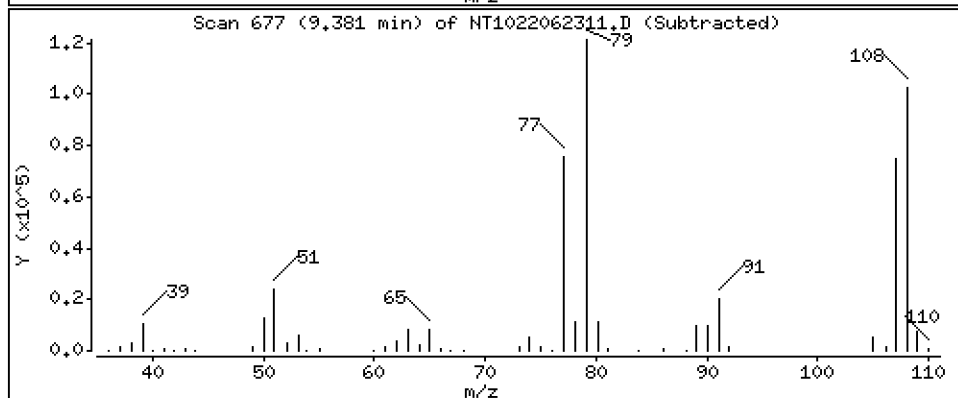
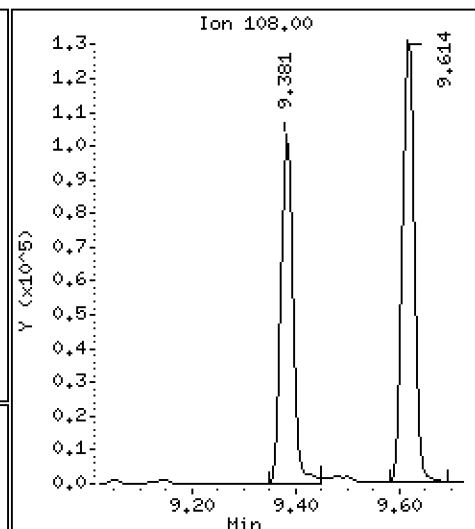
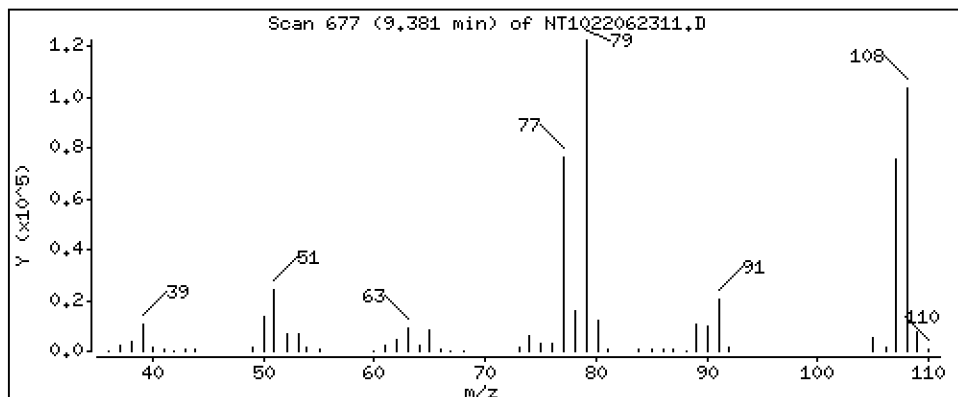
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 5.481 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

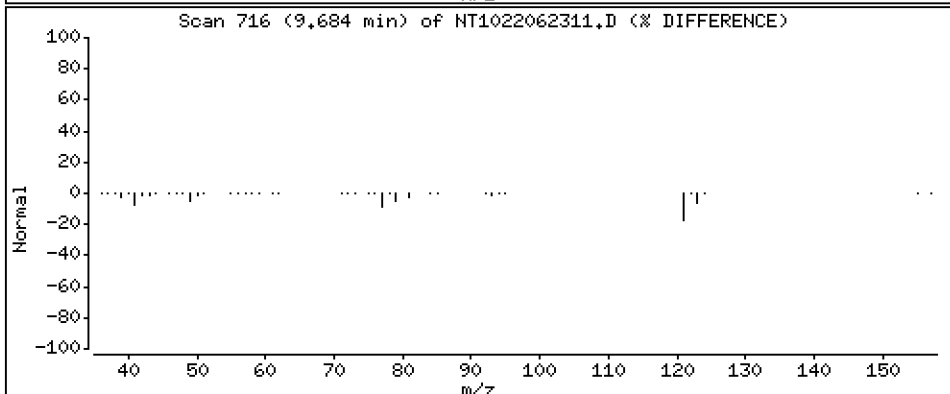
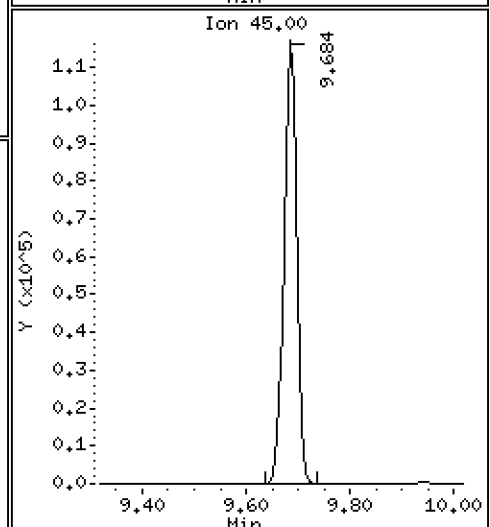
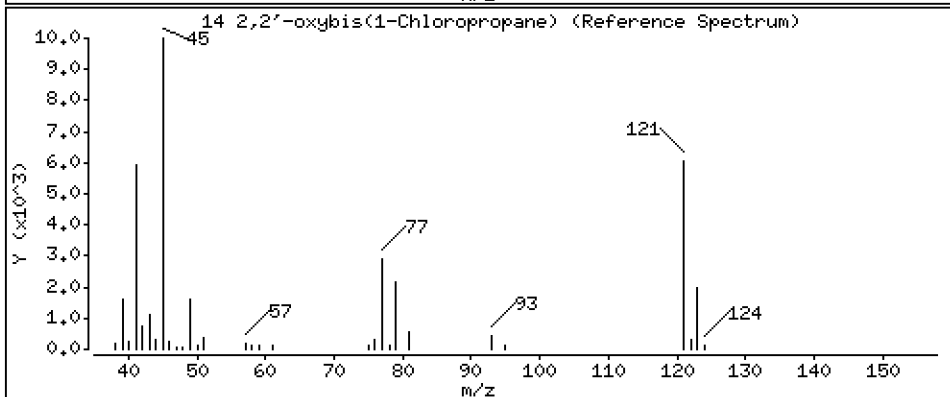
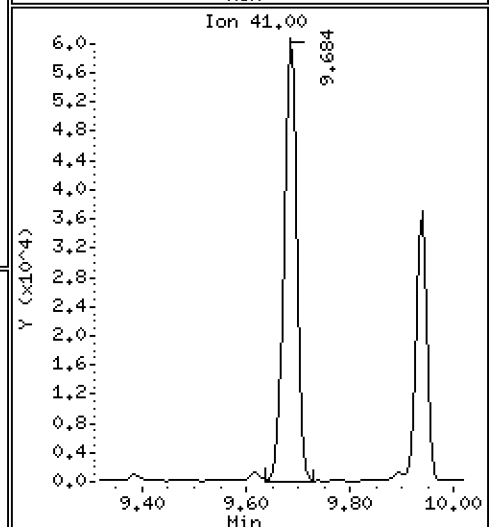
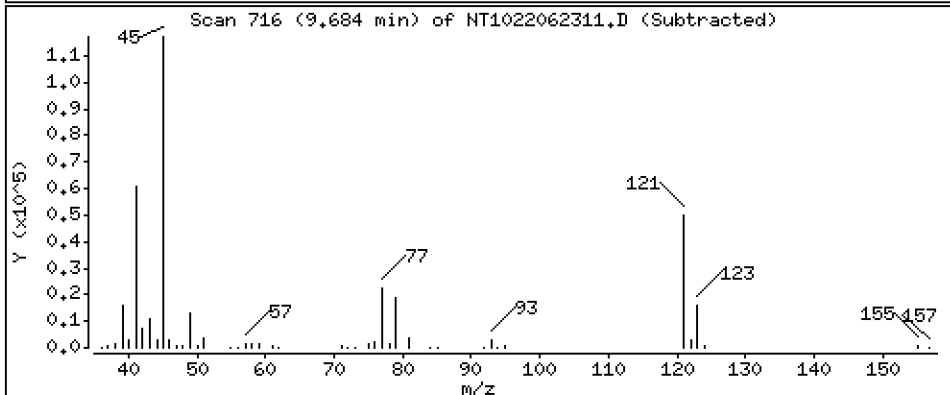
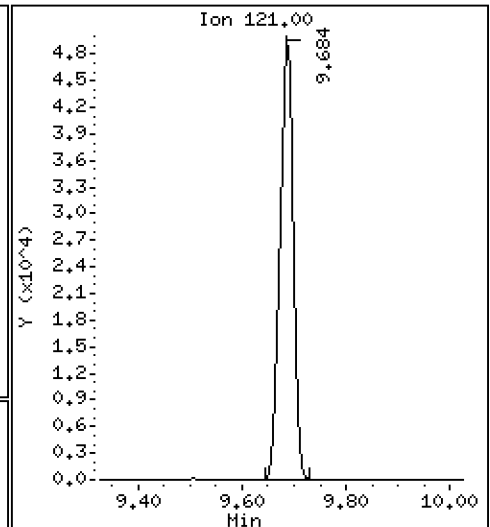
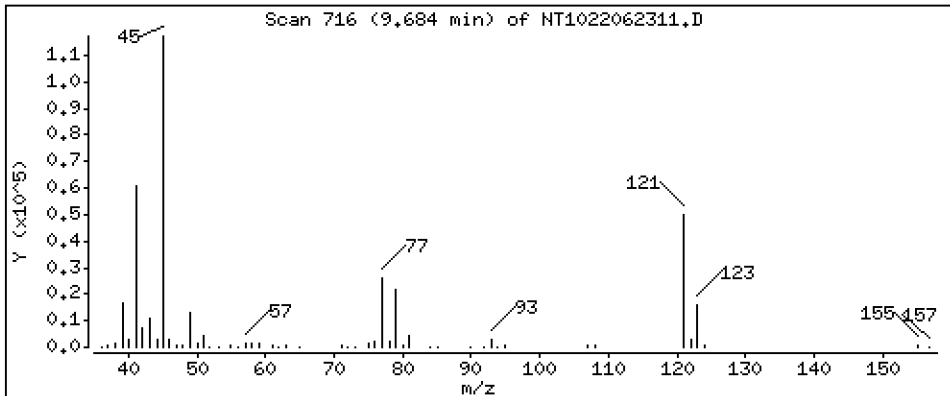
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 7,063 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

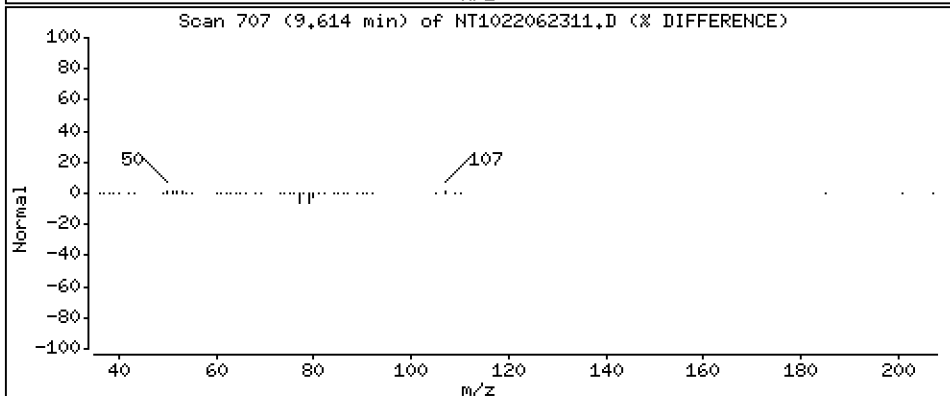
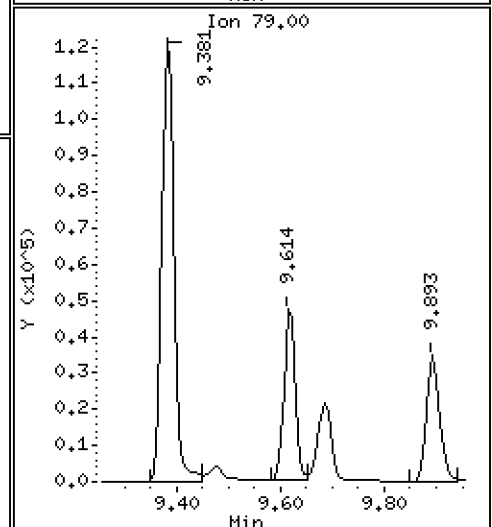
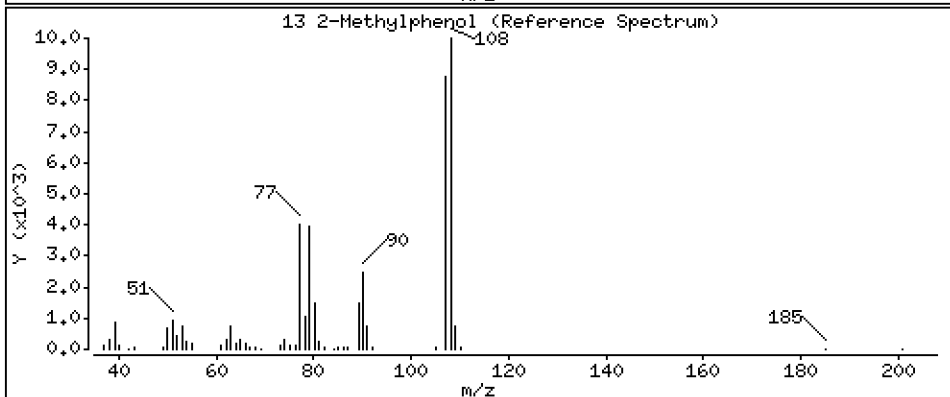
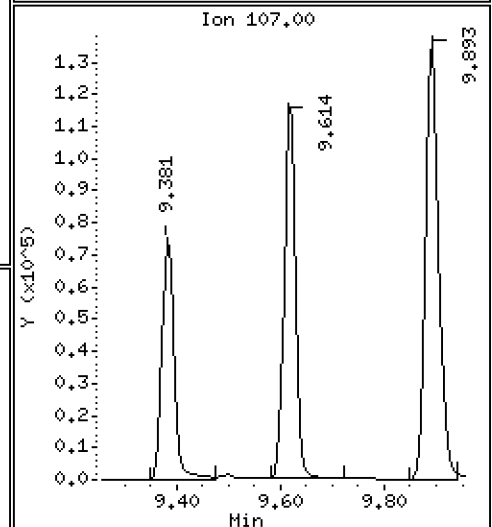
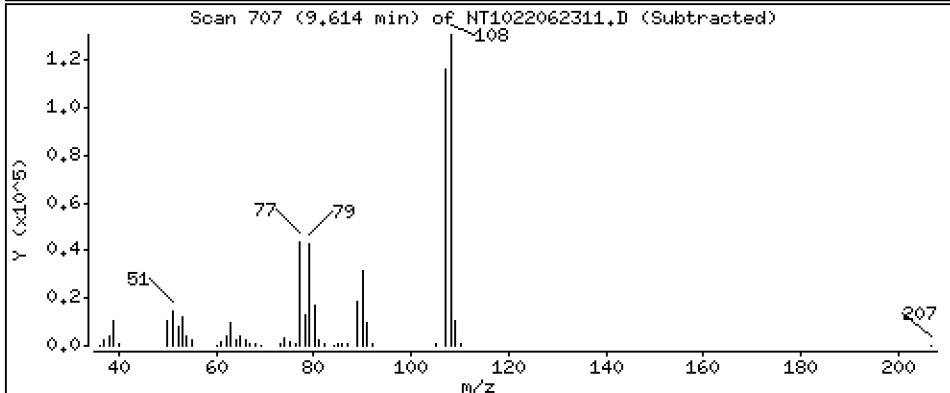
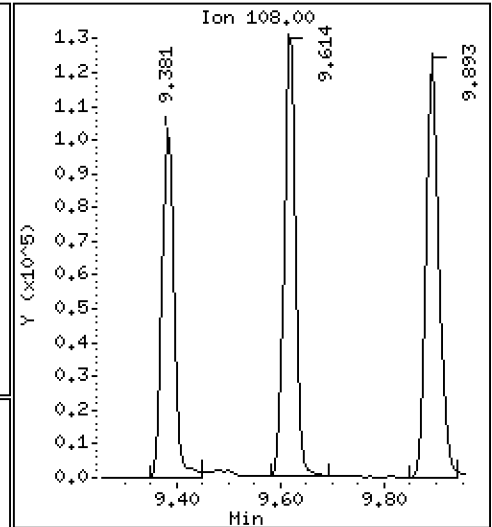
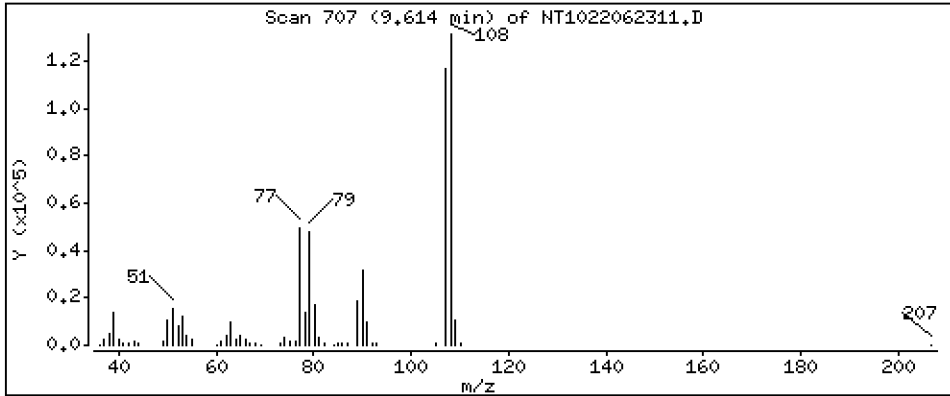
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.442 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

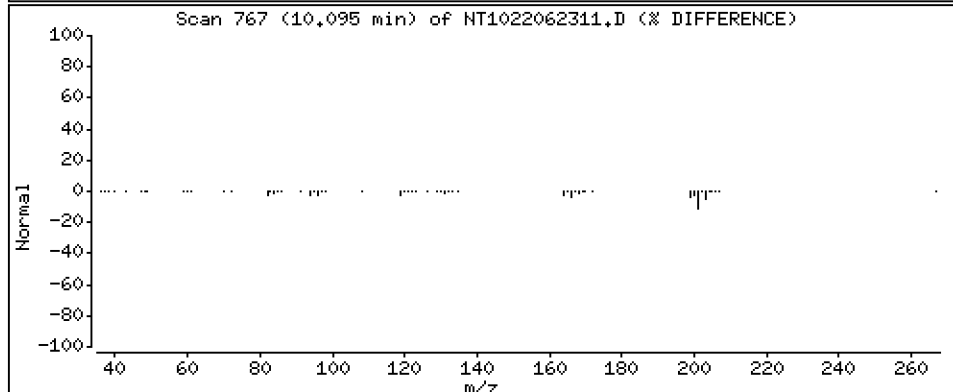
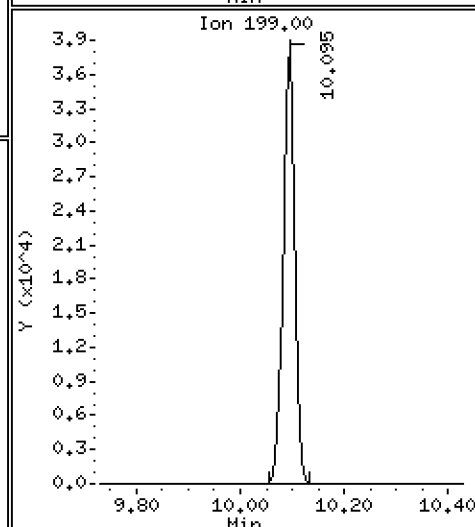
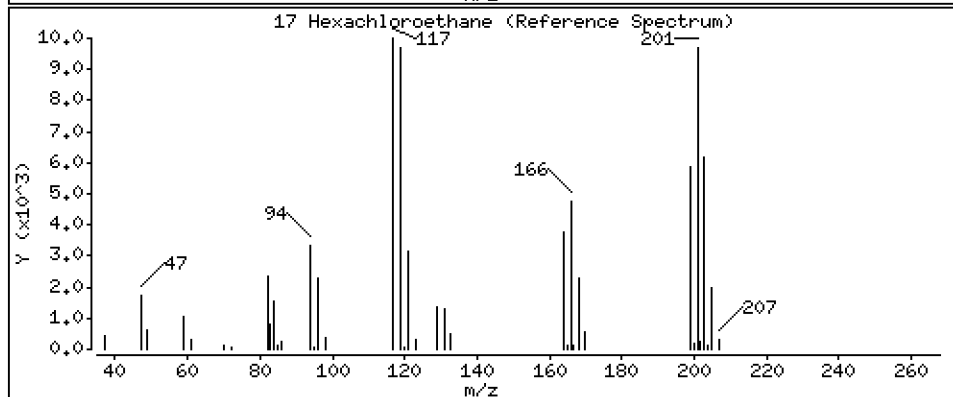
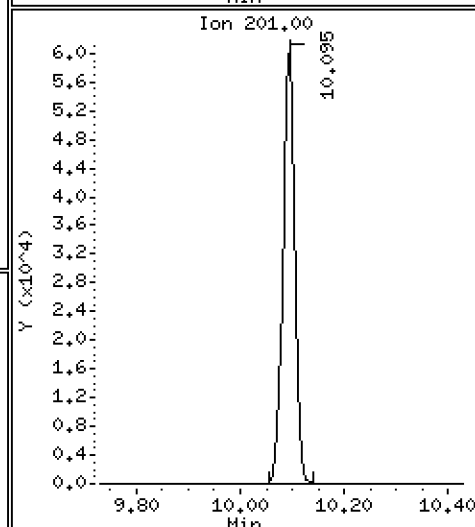
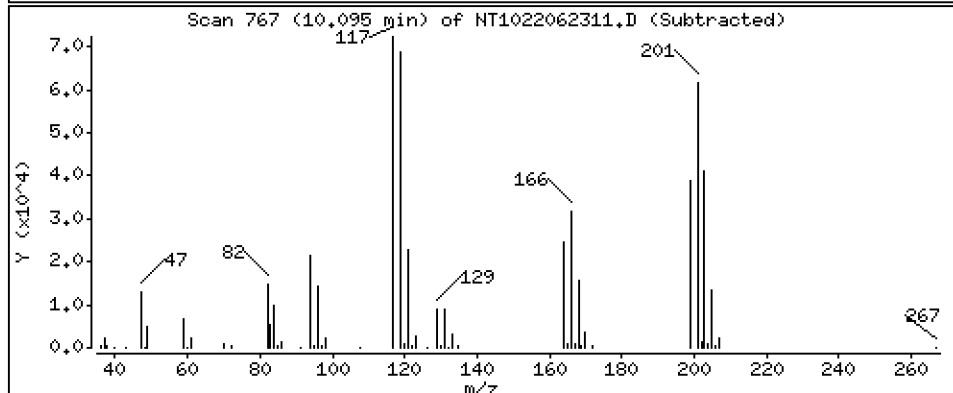
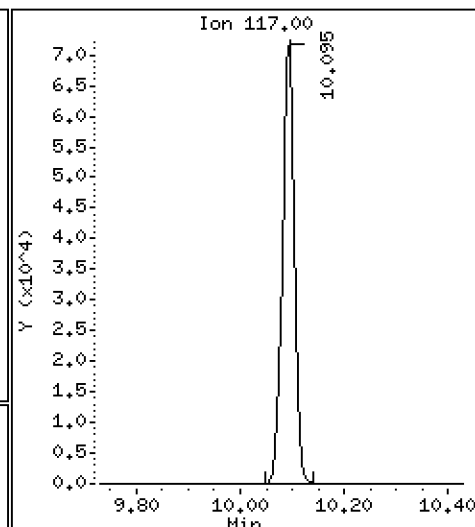
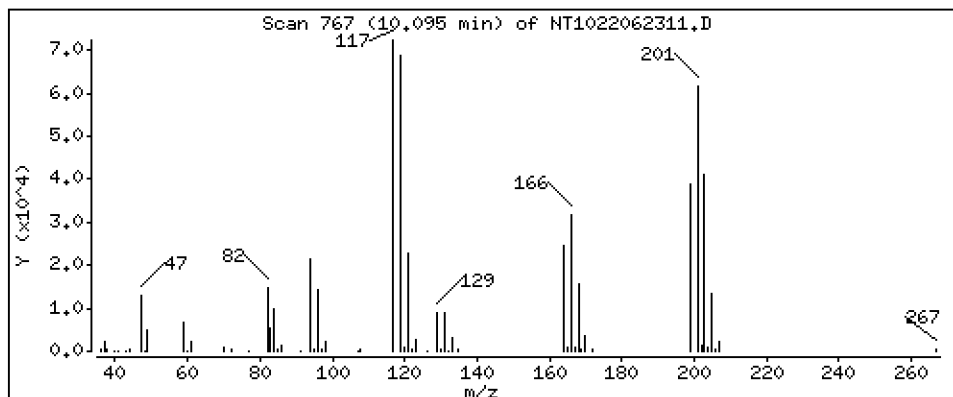
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,296 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

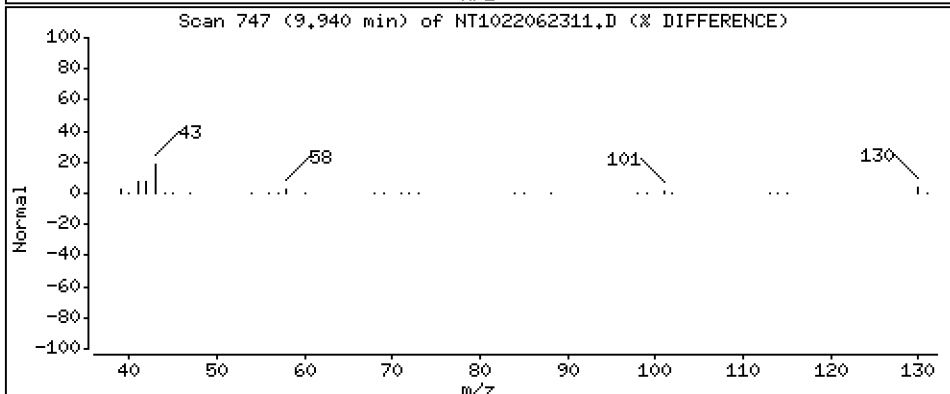
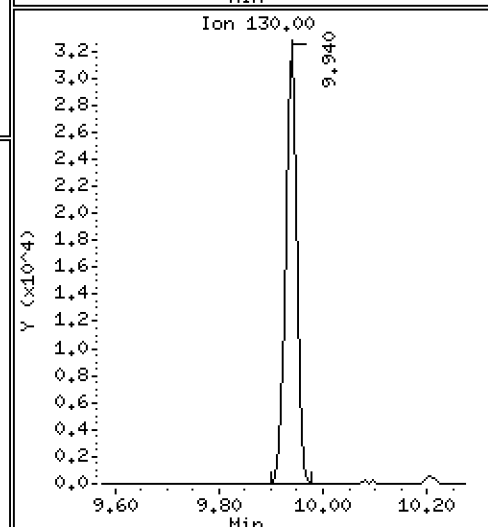
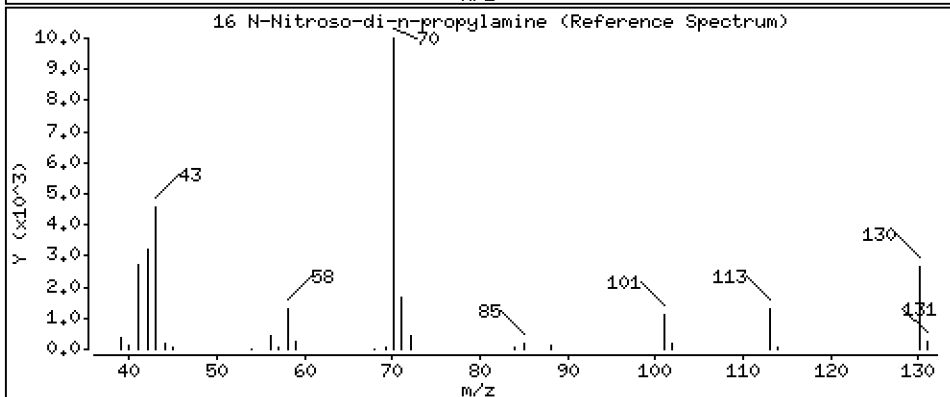
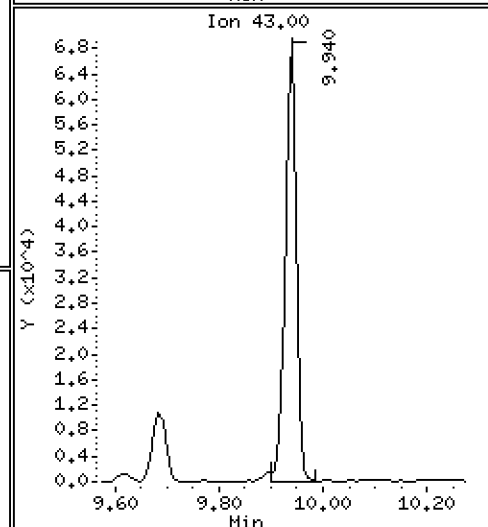
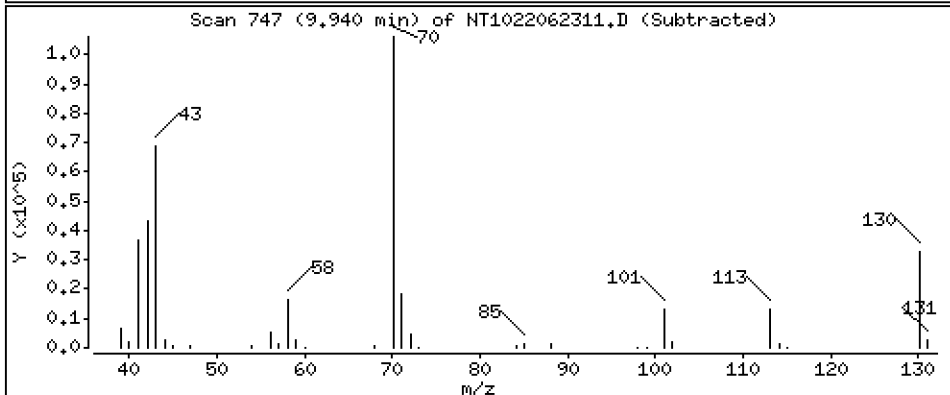
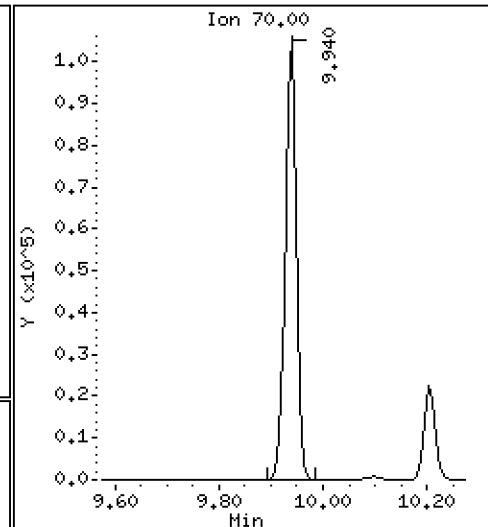
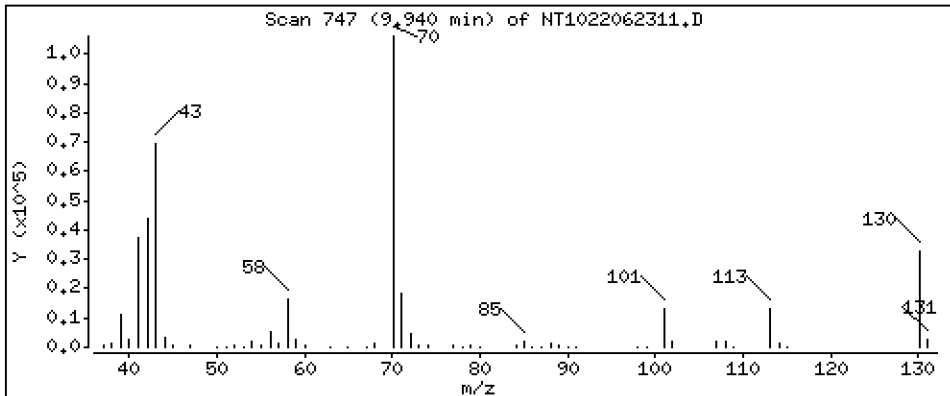
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,116 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

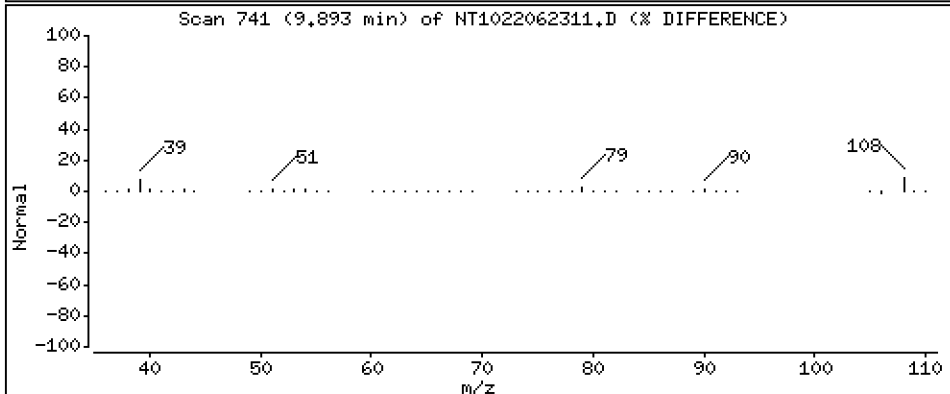
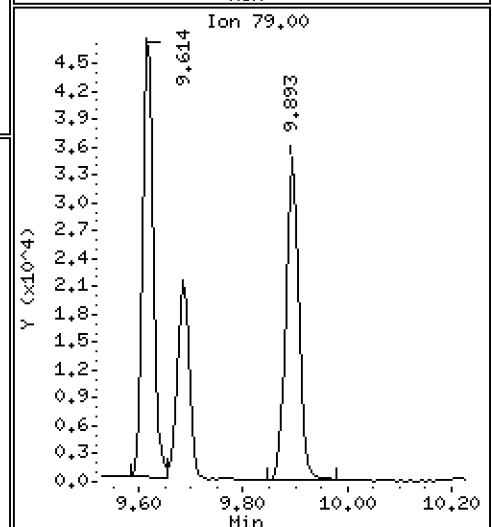
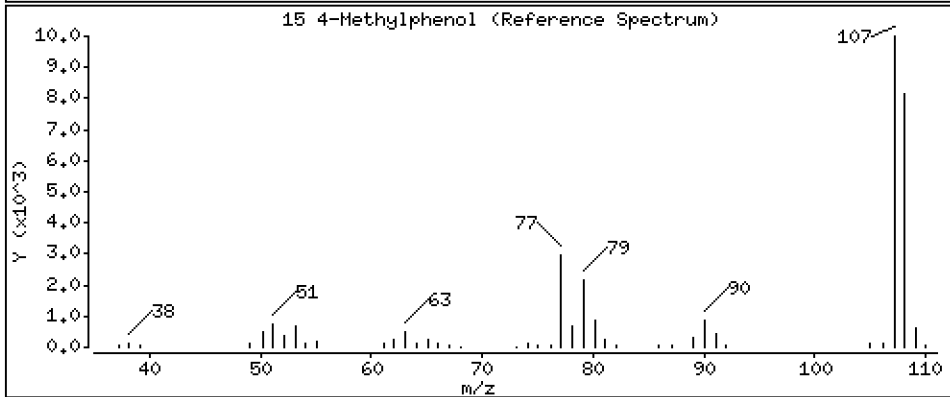
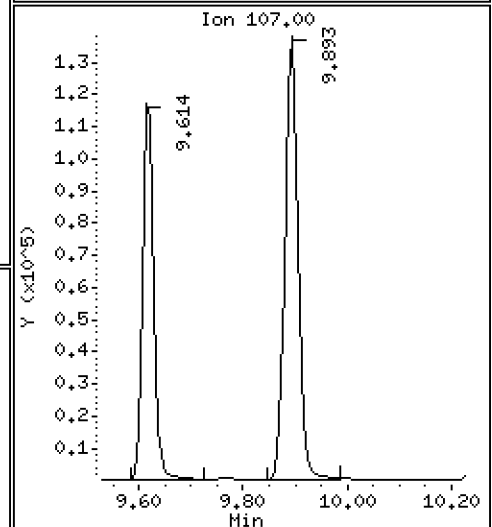
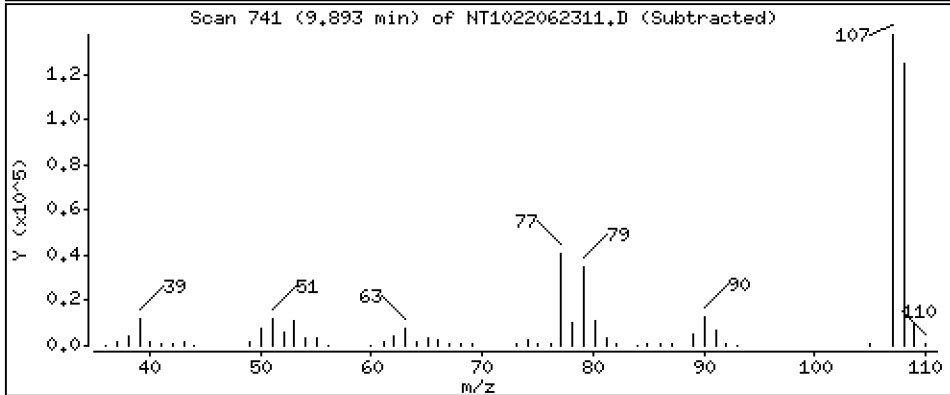
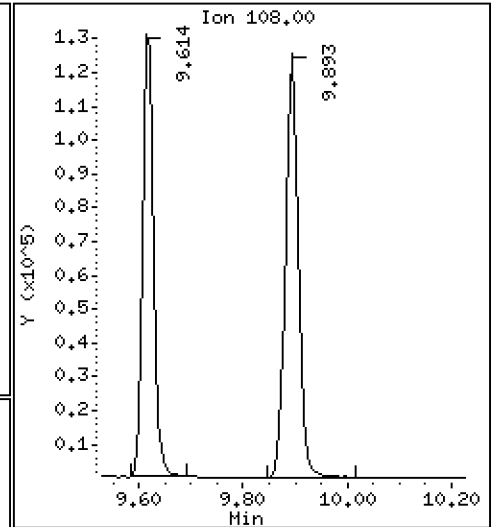
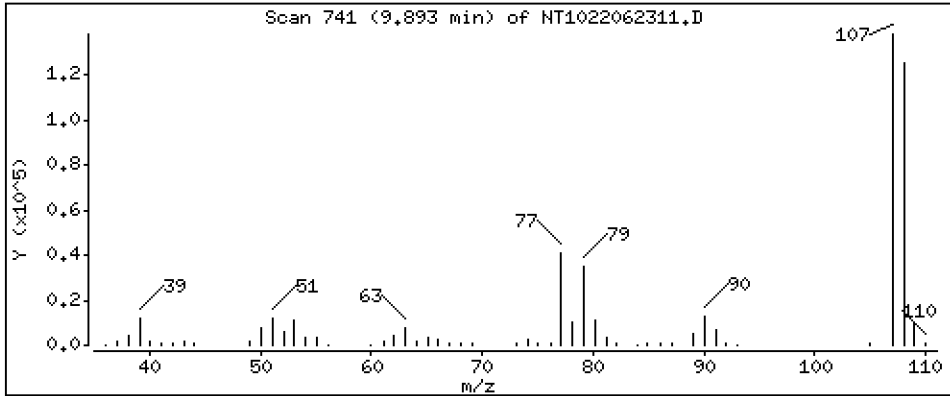
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,592 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

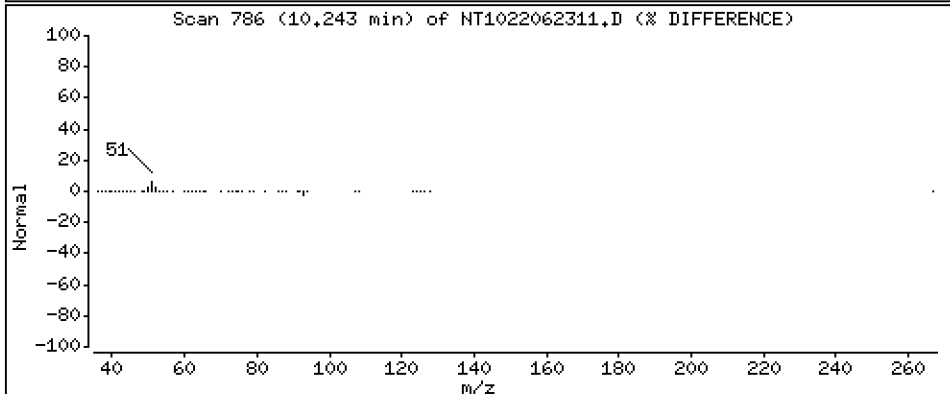
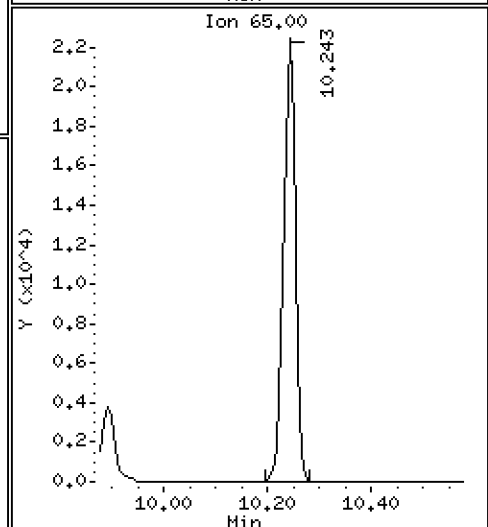
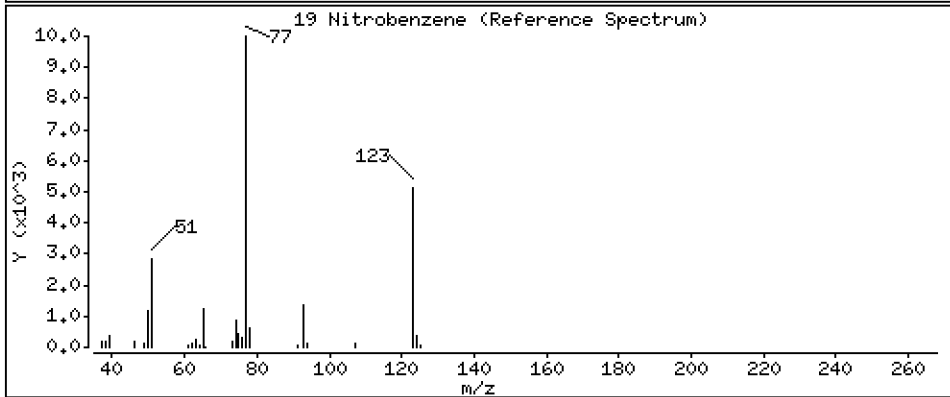
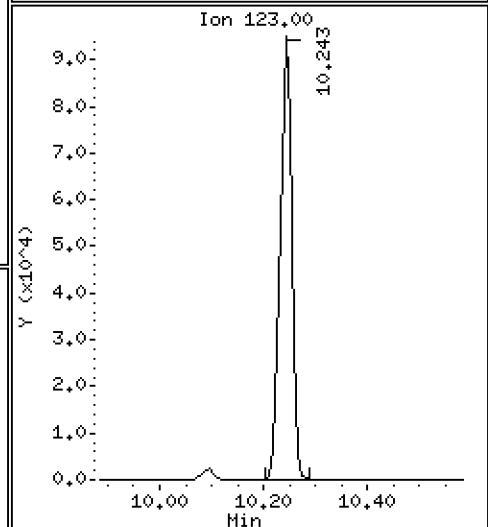
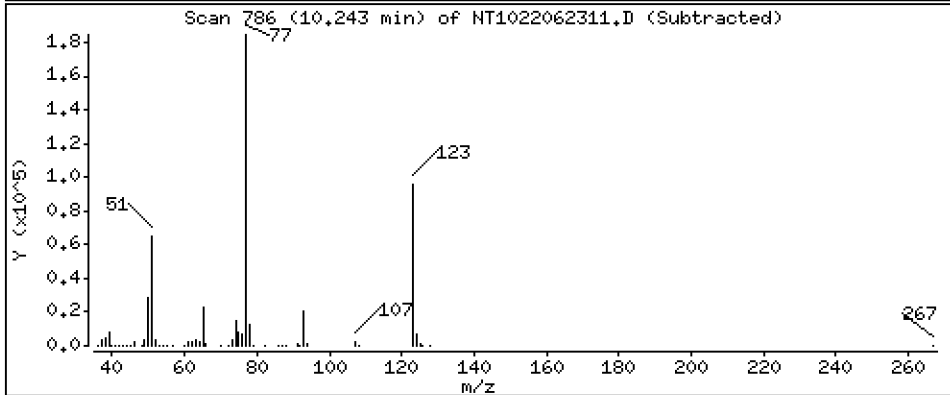
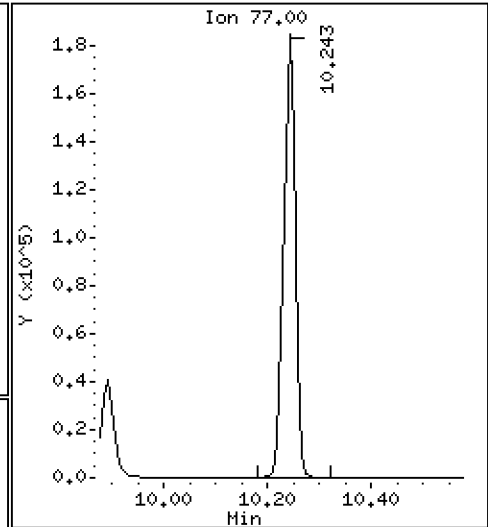
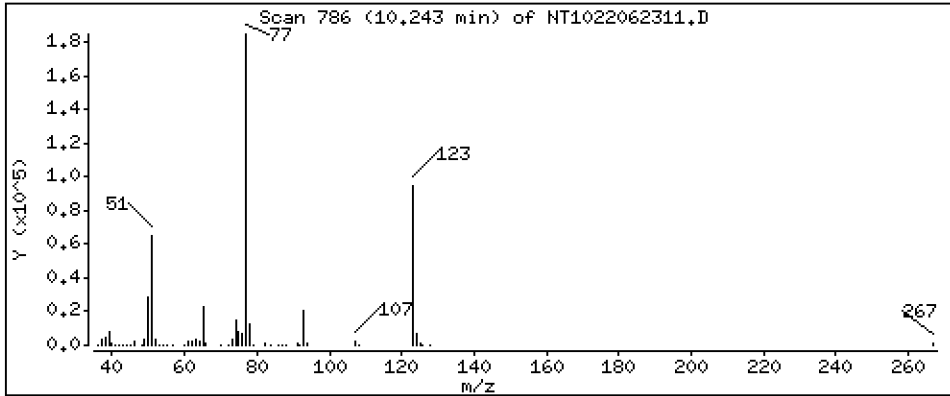
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 5,138 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

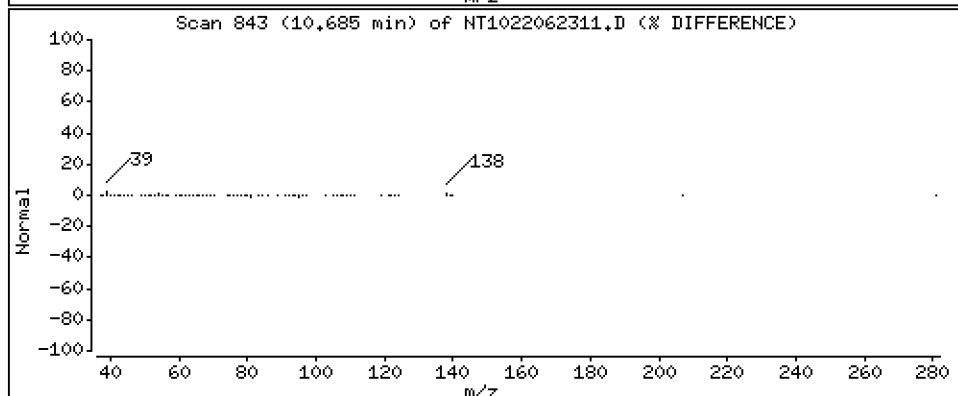
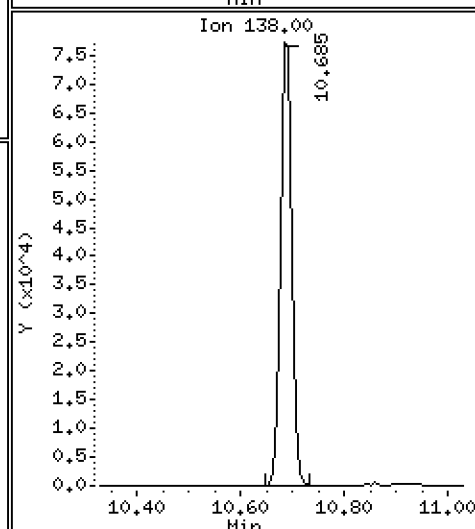
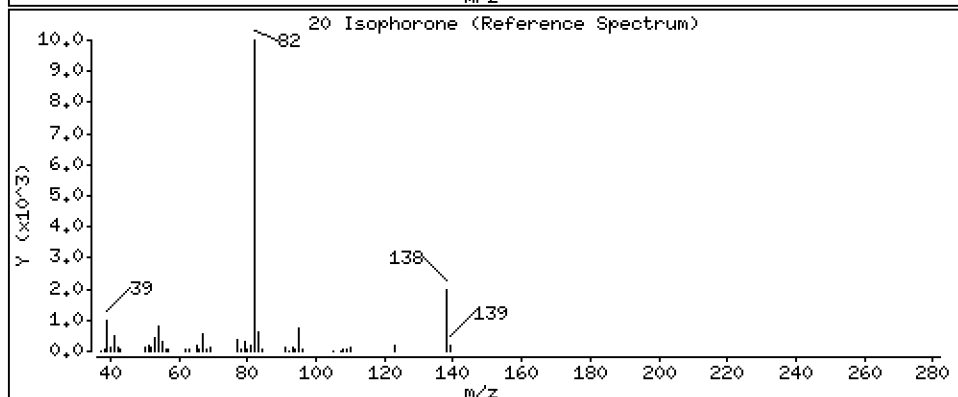
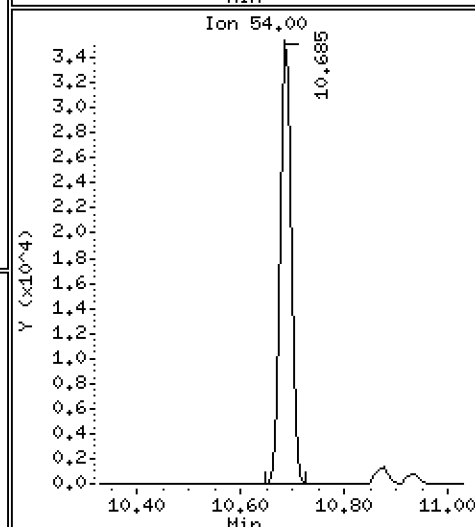
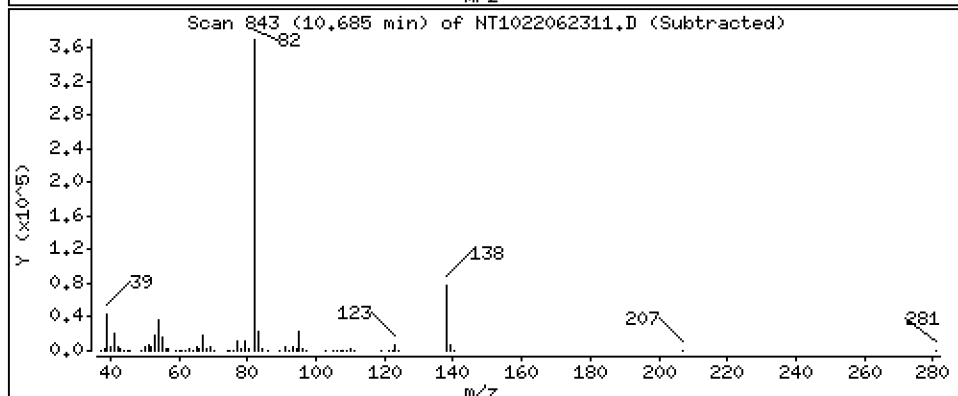
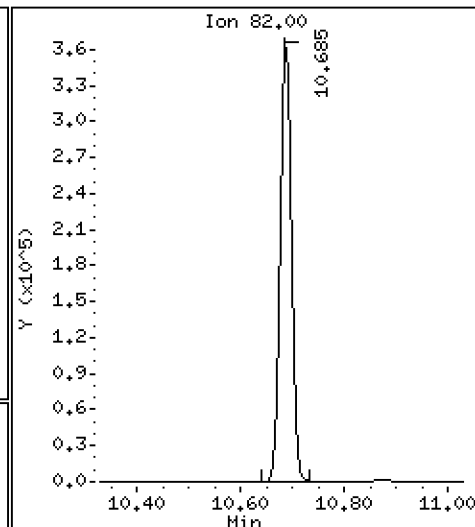
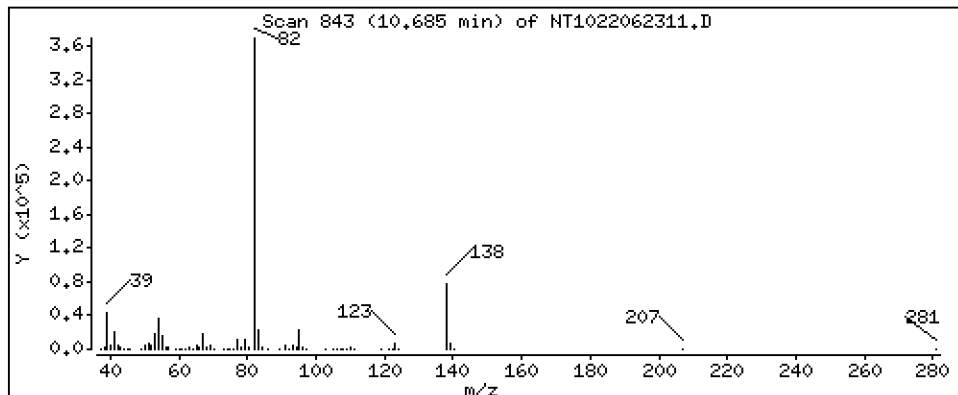
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 7,412 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

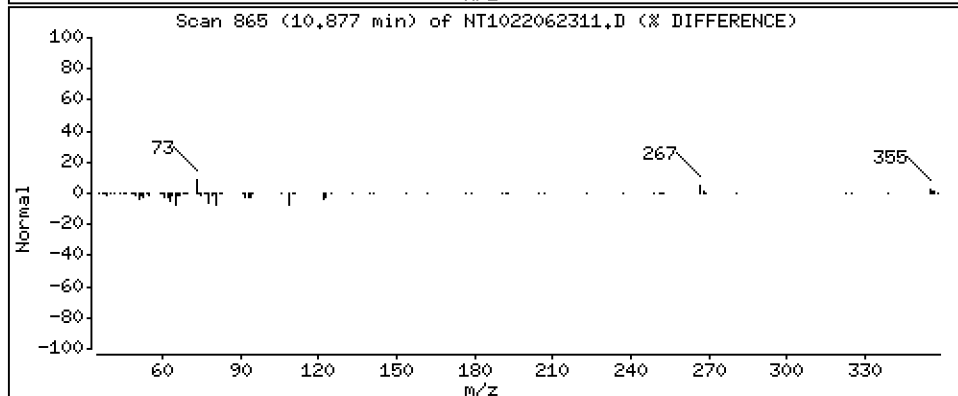
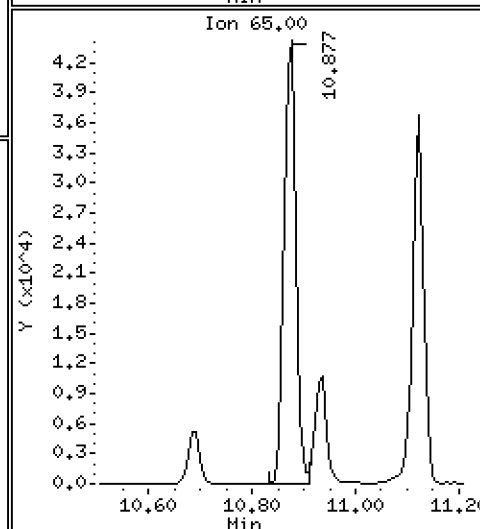
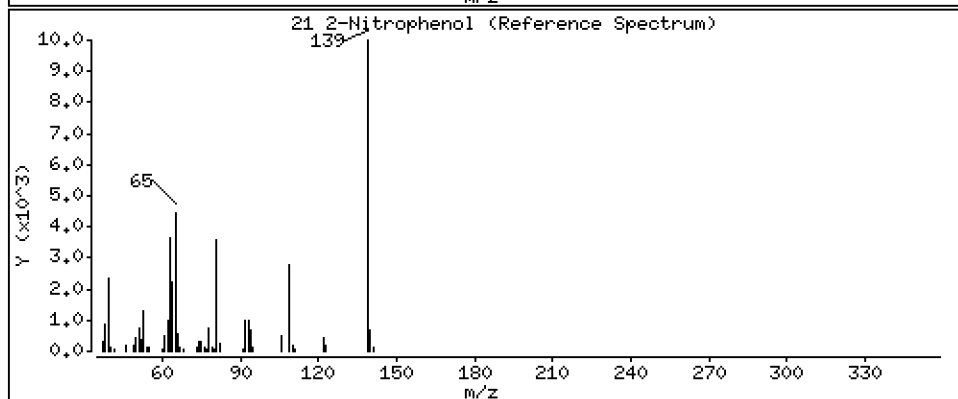
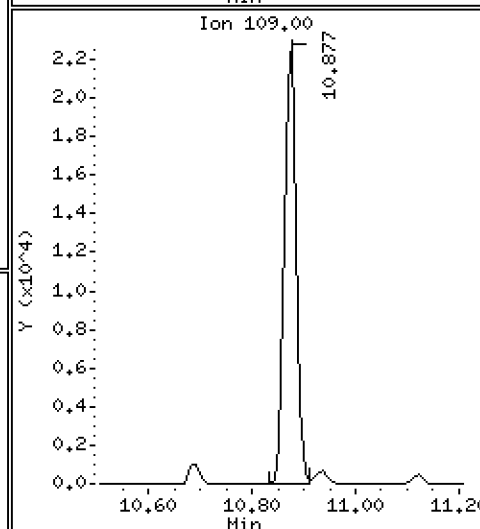
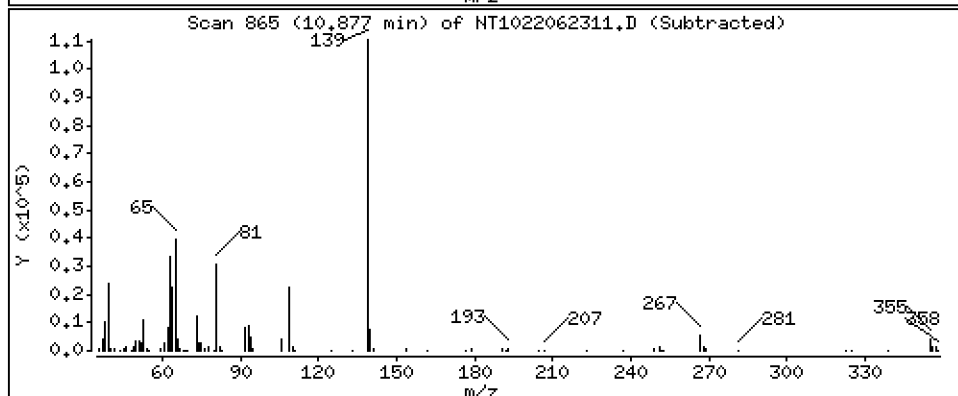
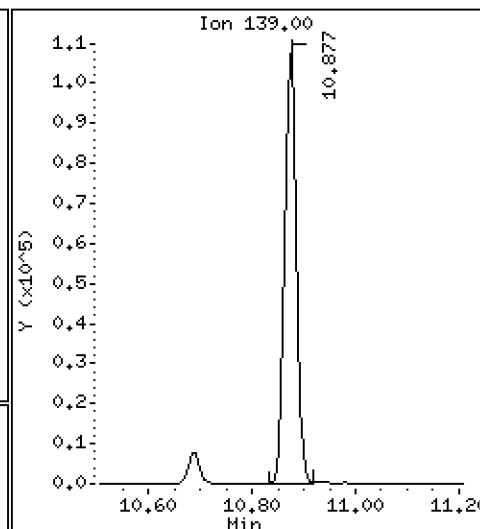
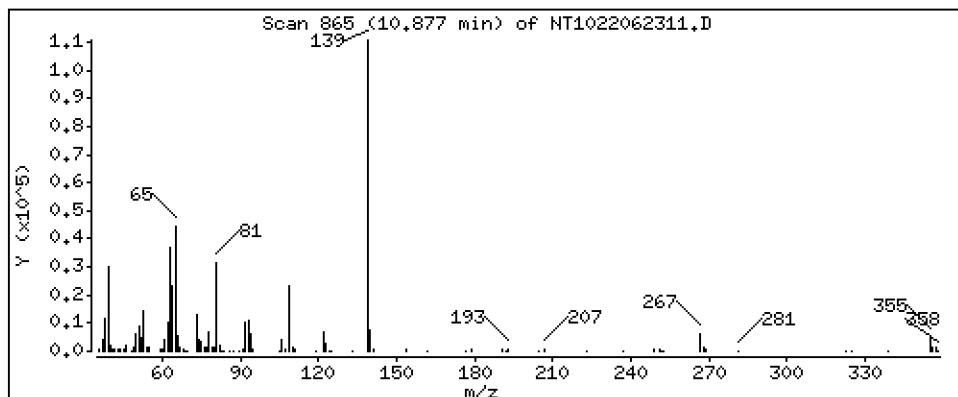
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,128 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

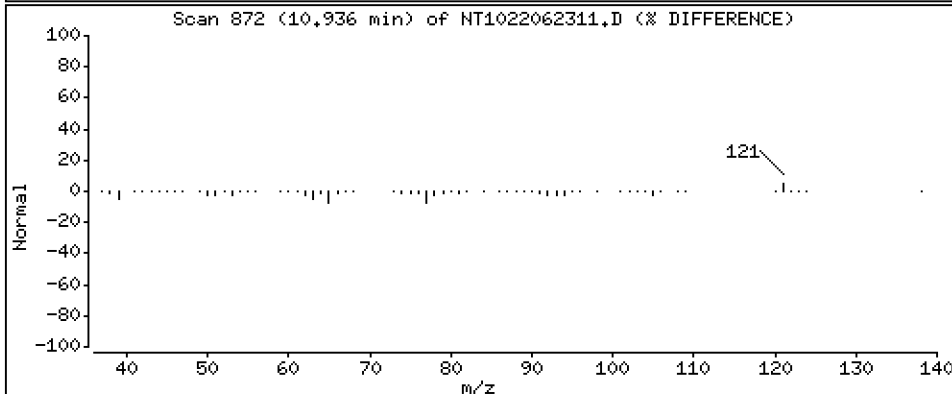
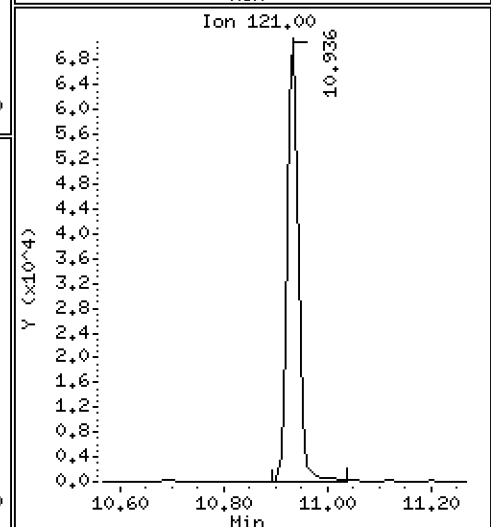
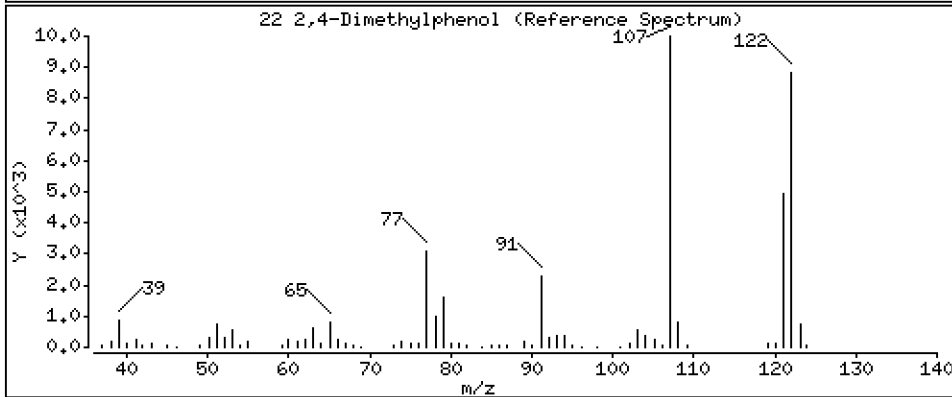
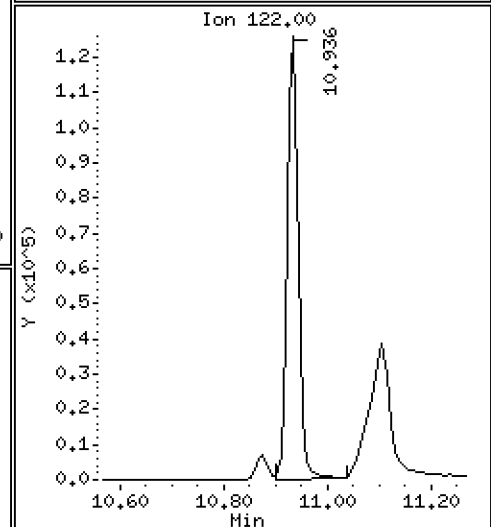
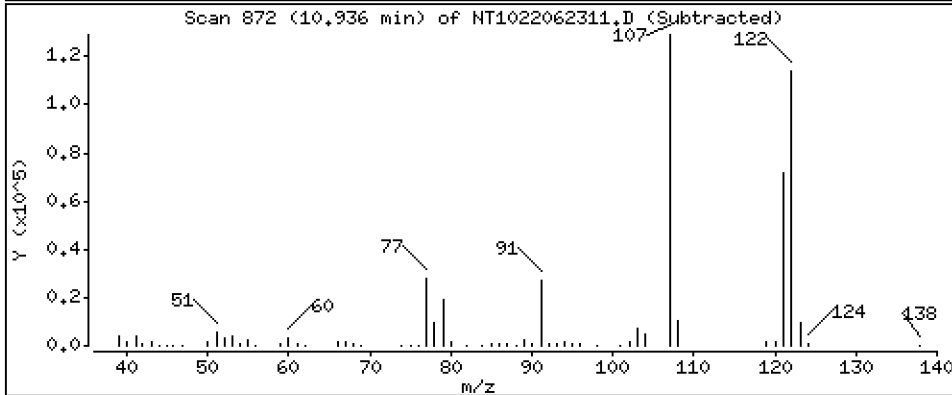
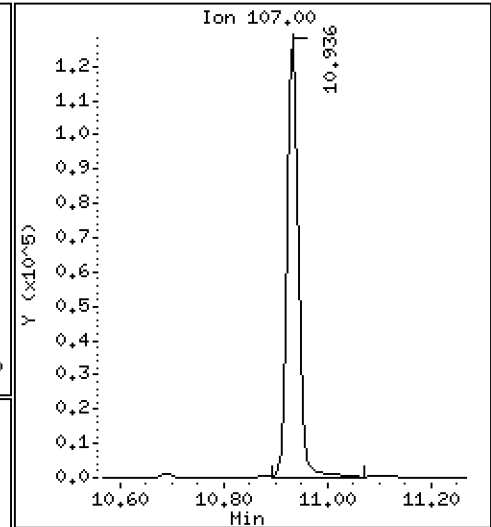
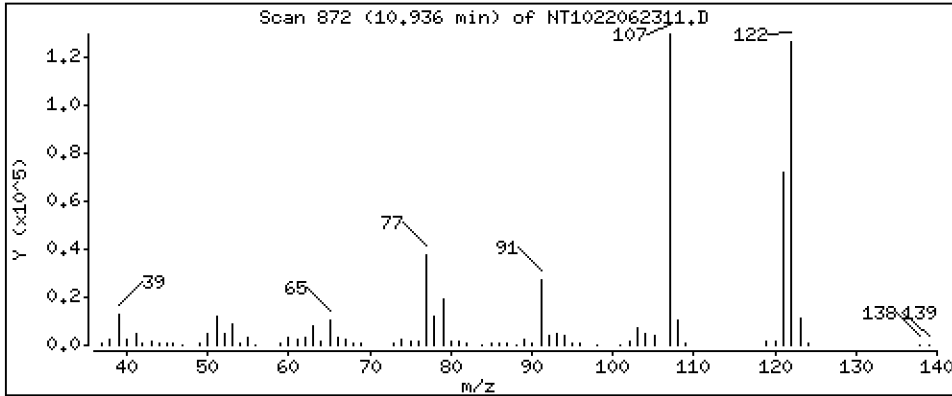
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 4,736 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

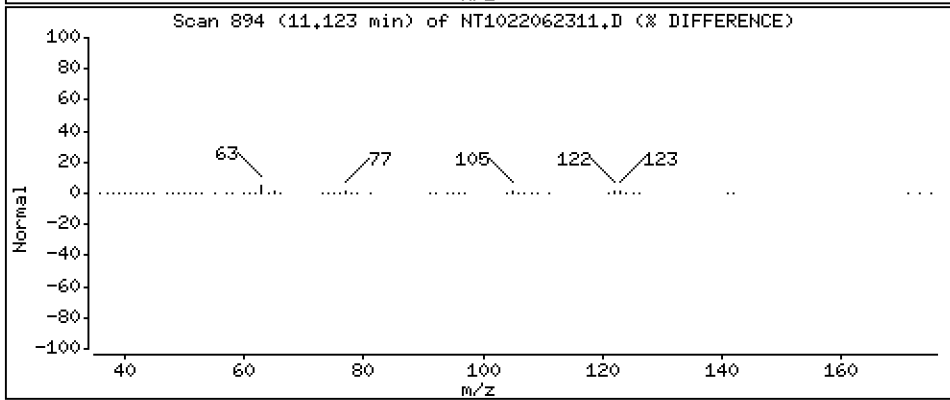
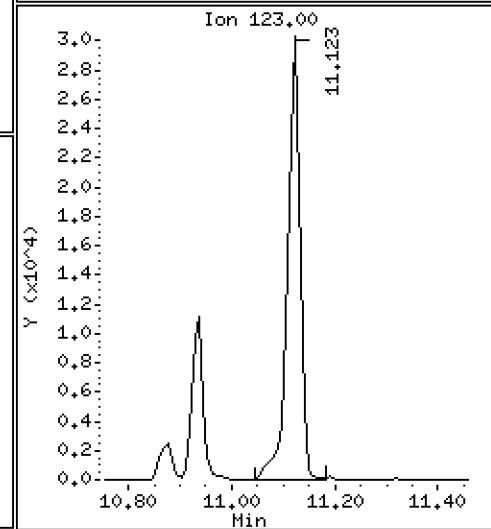
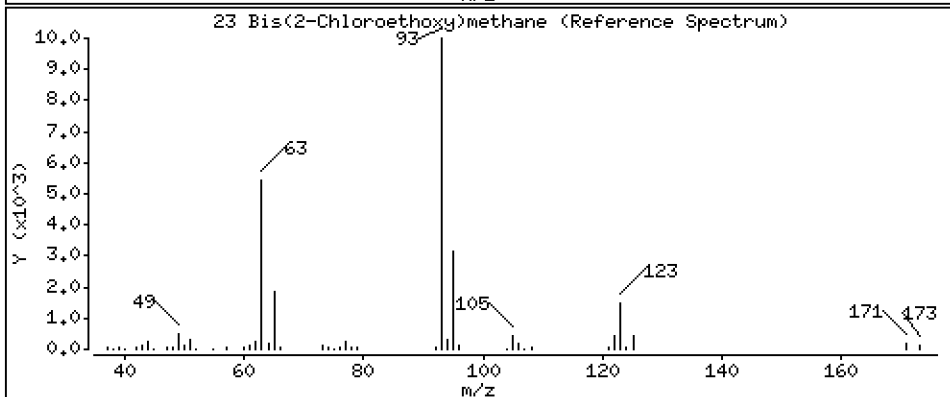
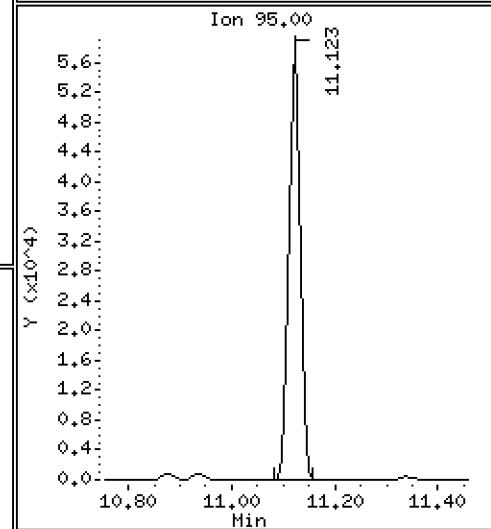
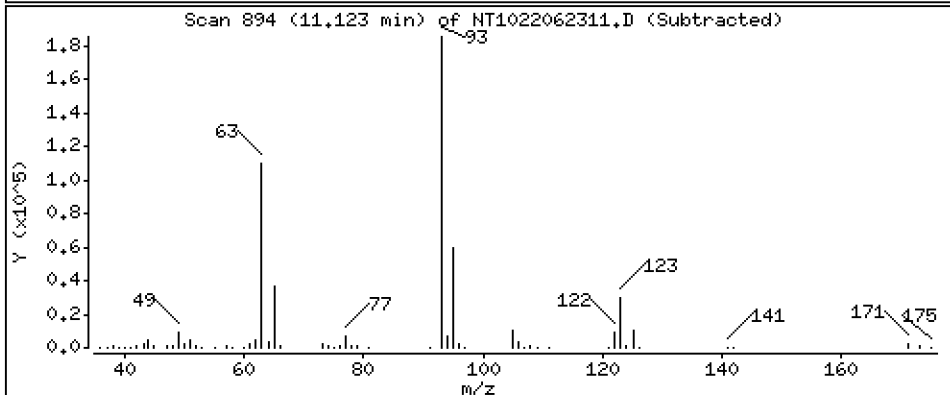
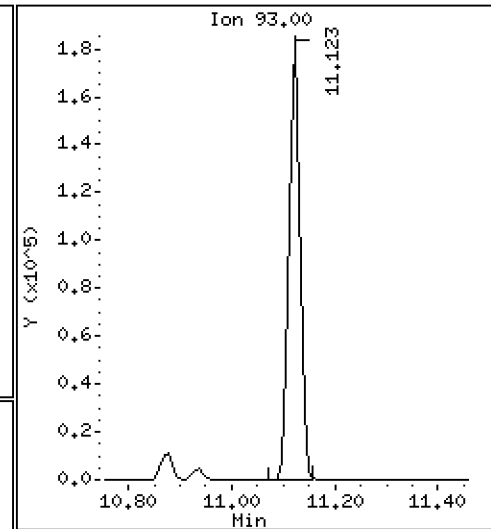
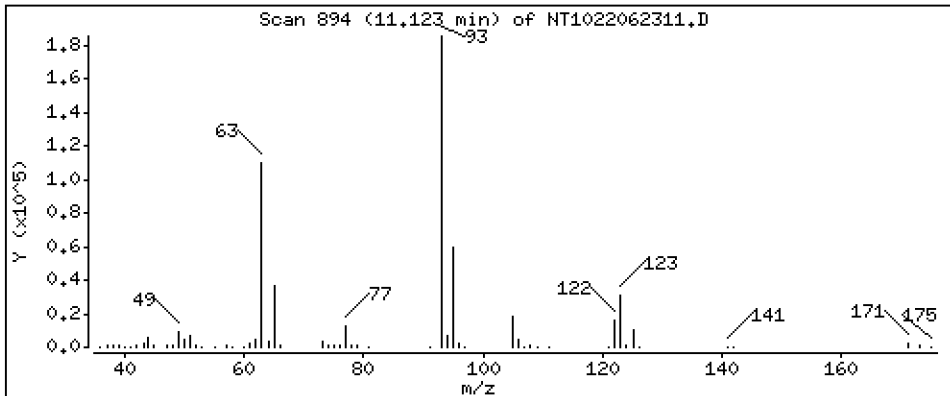
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,735 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

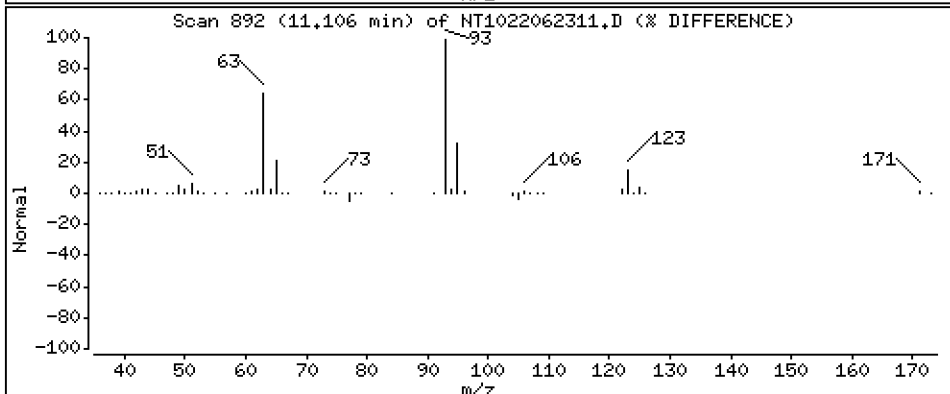
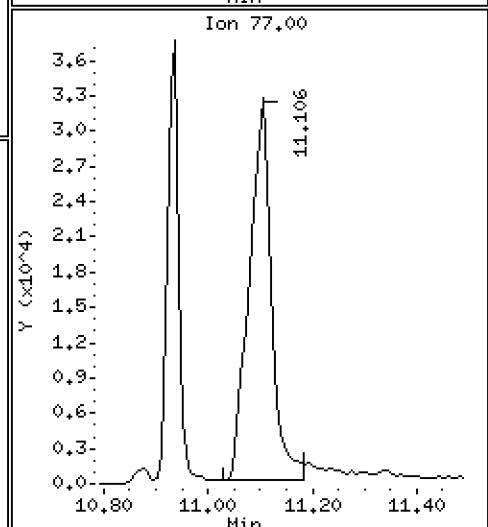
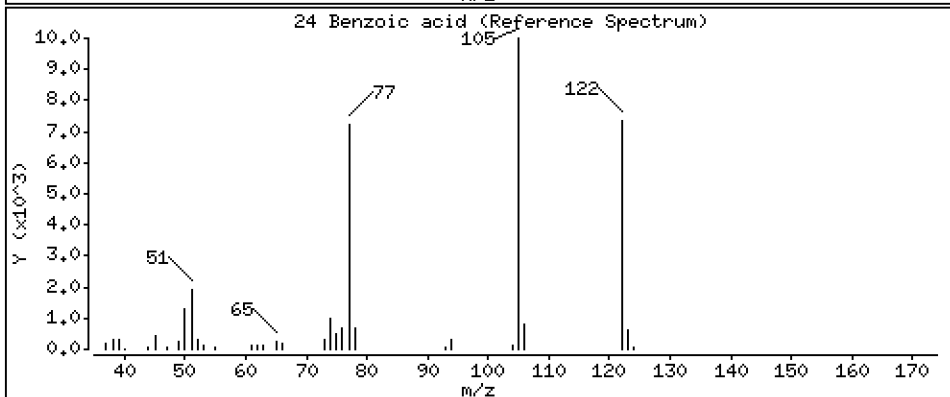
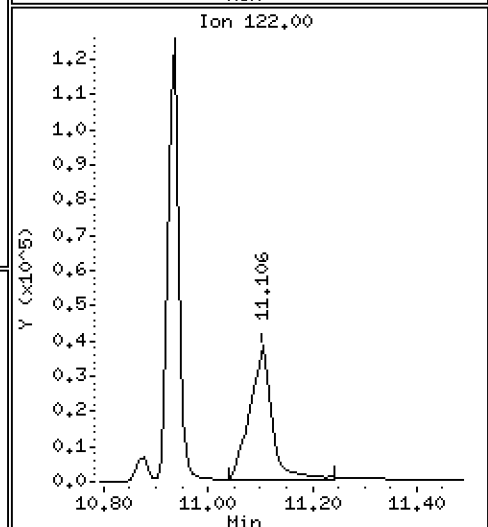
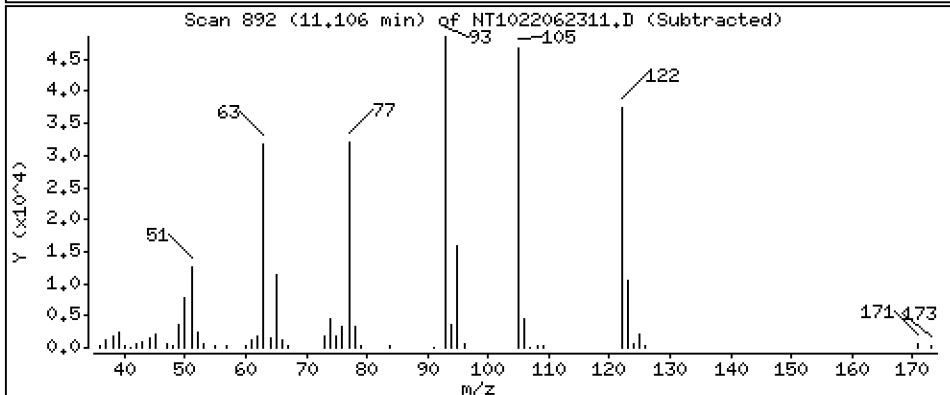
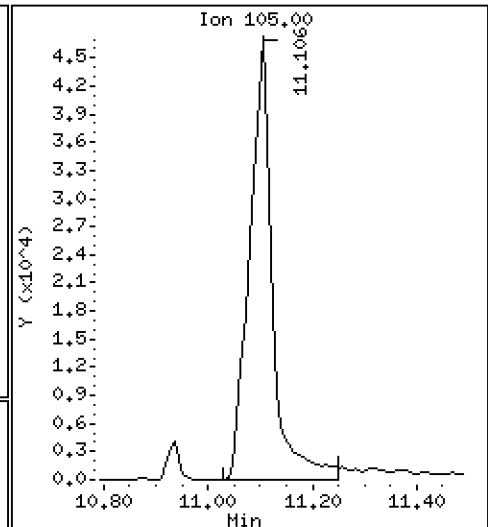
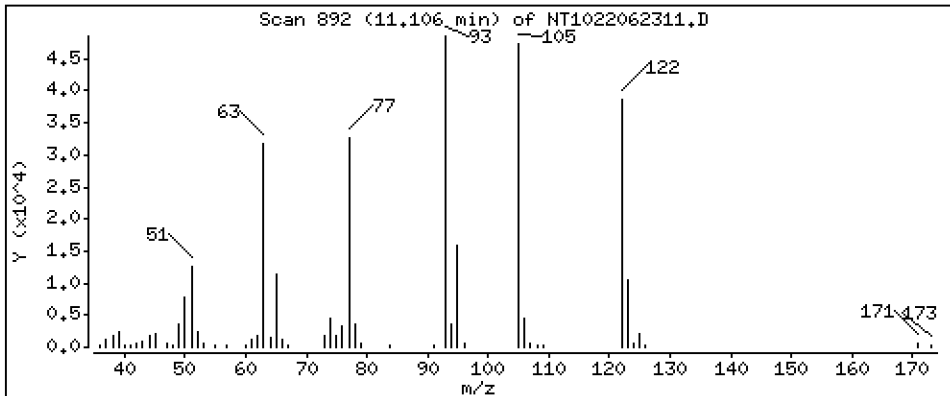
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 6,621 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

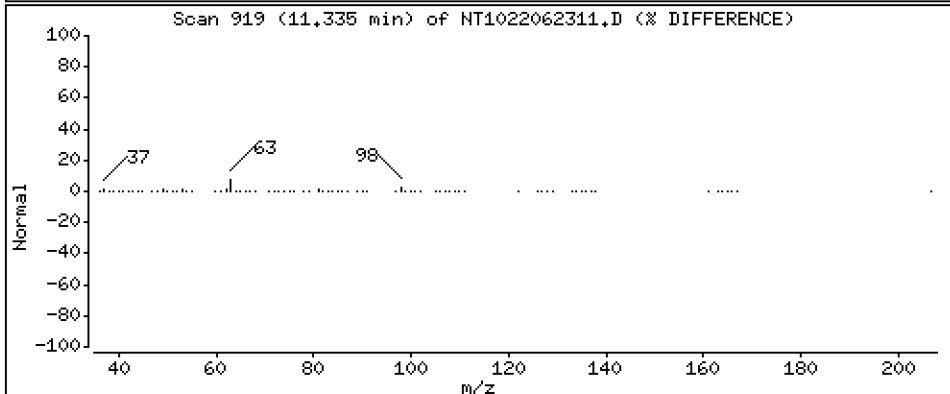
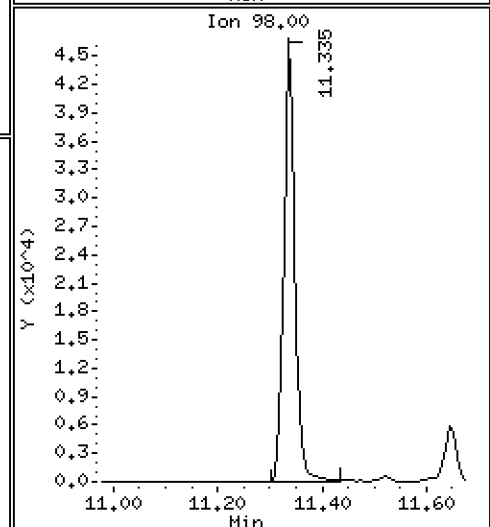
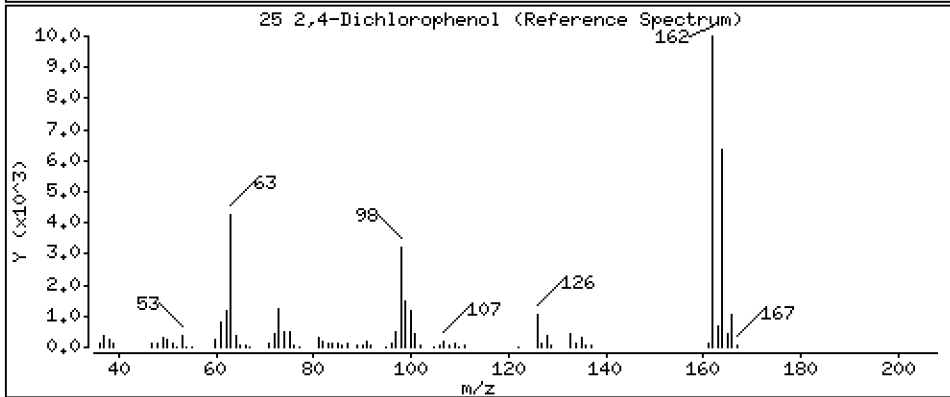
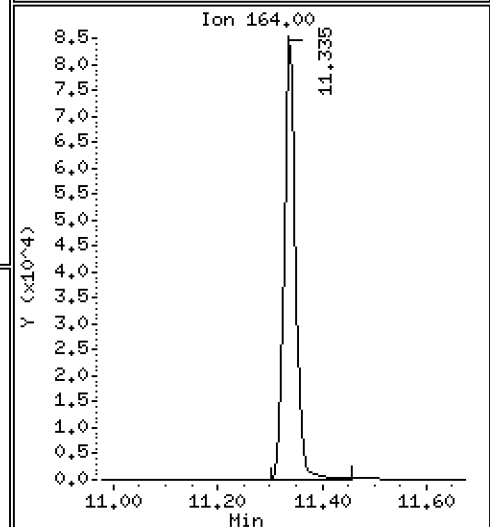
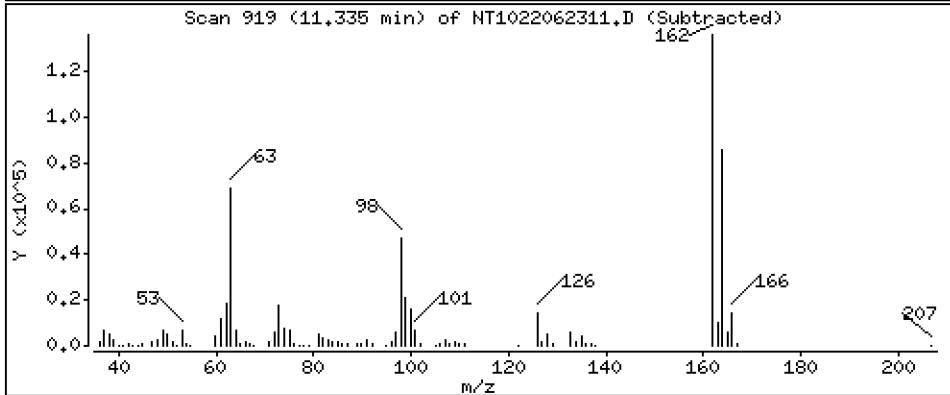
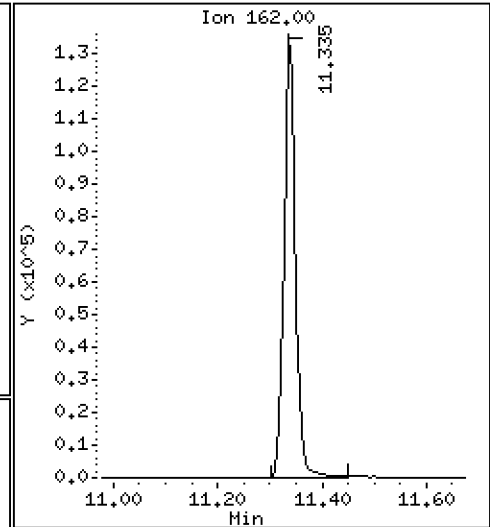
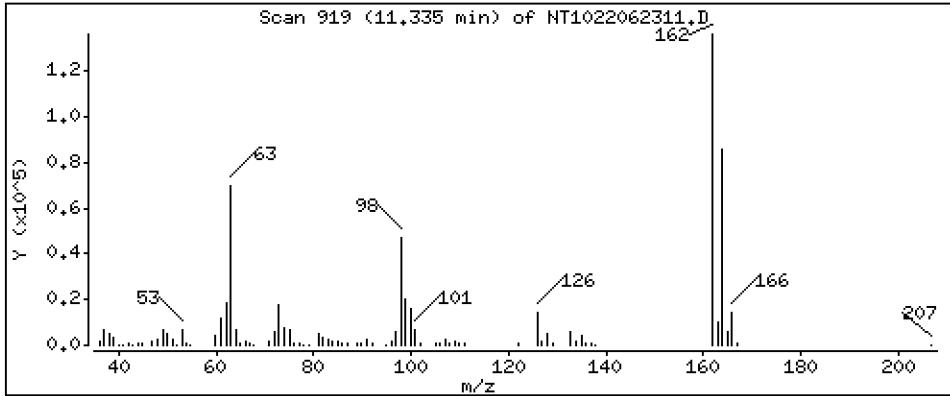
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 5,545 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

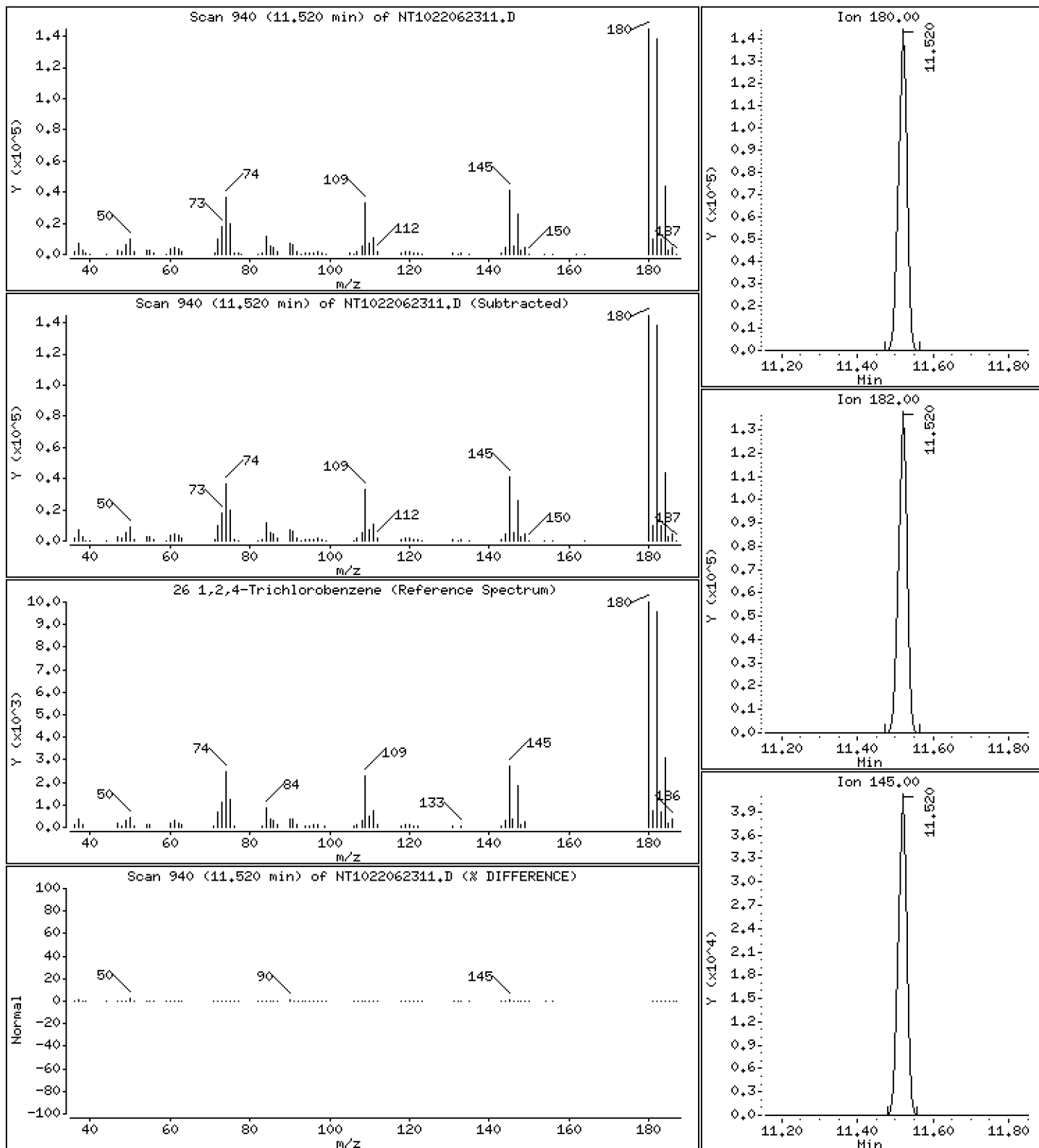
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,888 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

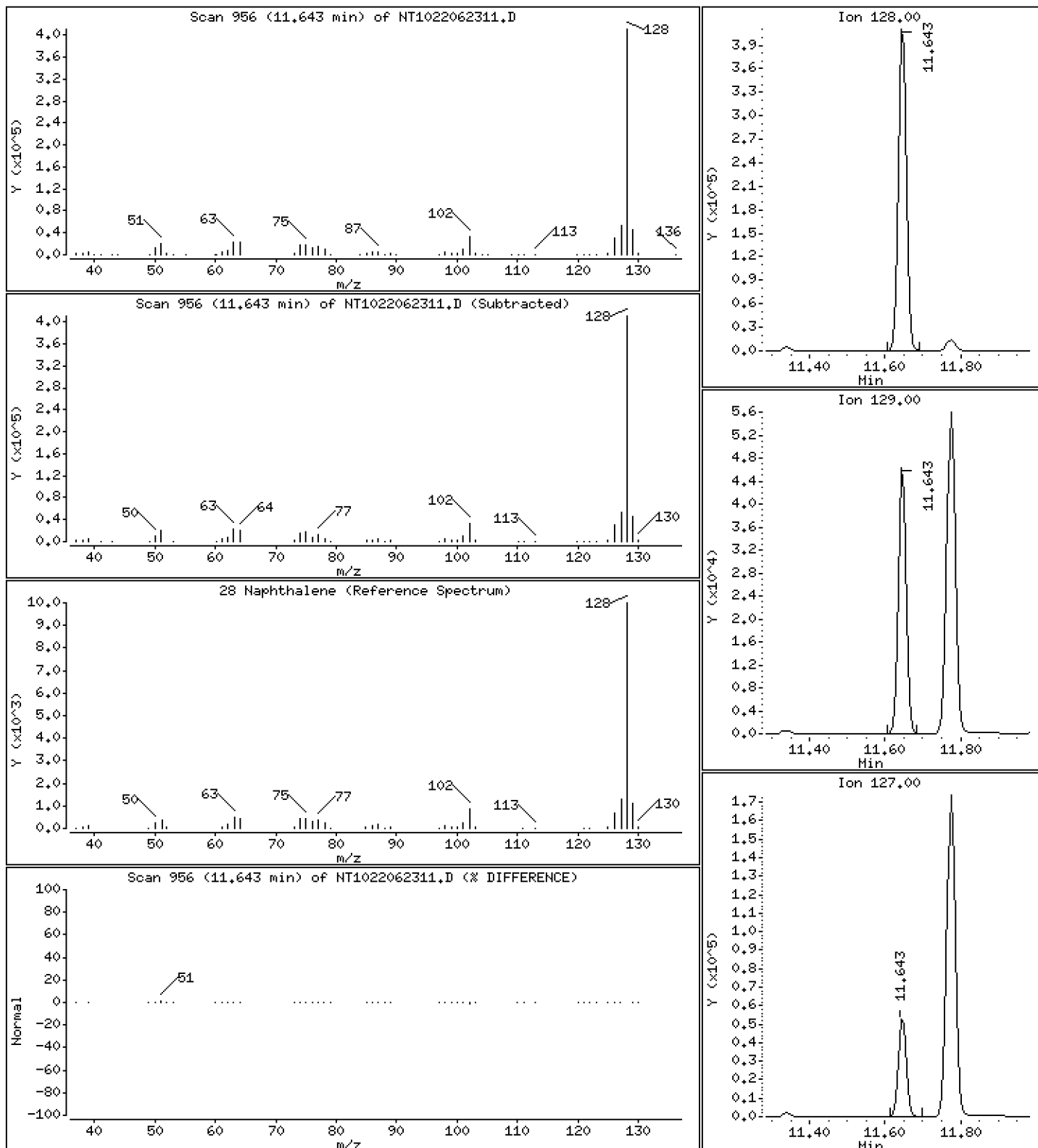
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,947 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

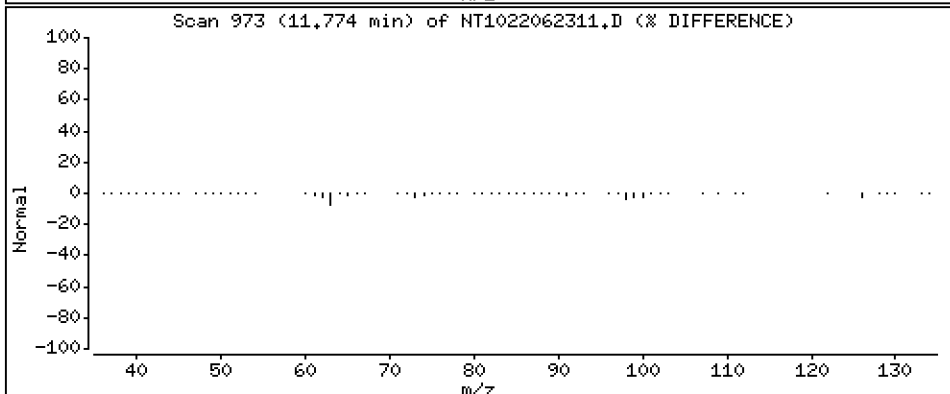
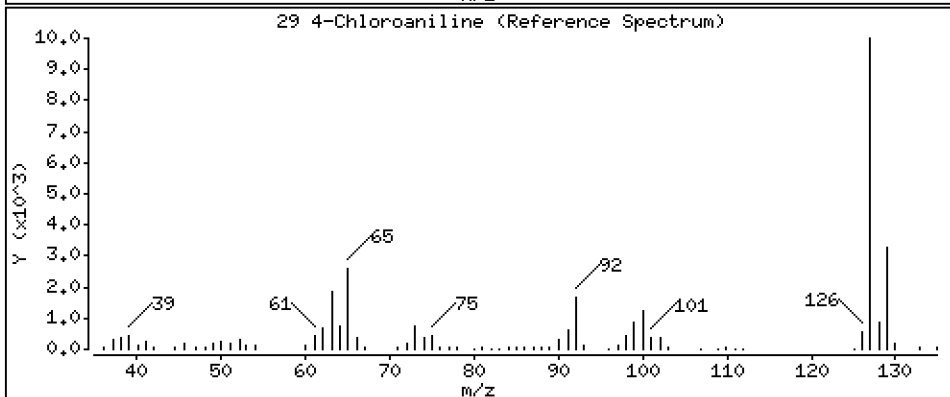
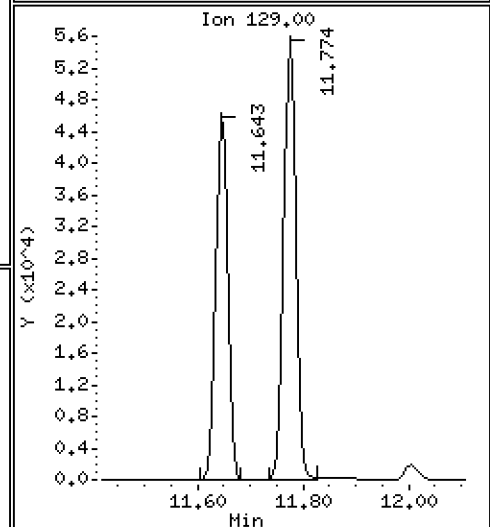
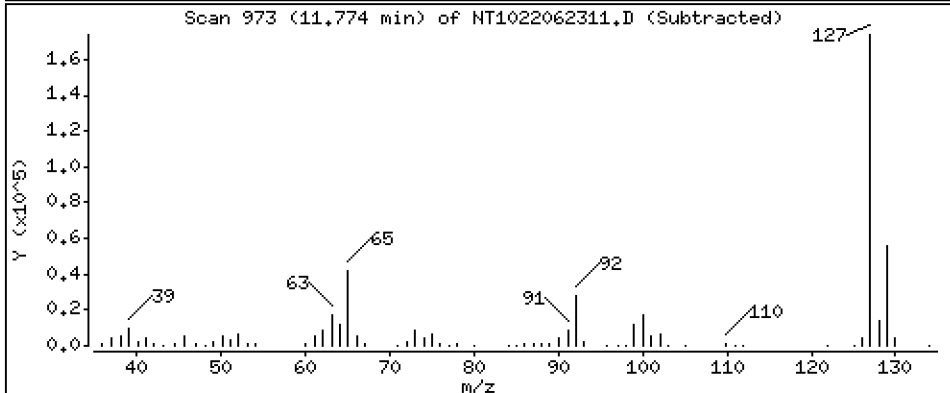
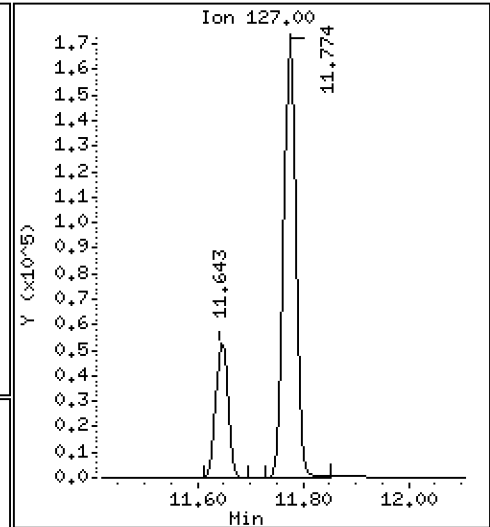
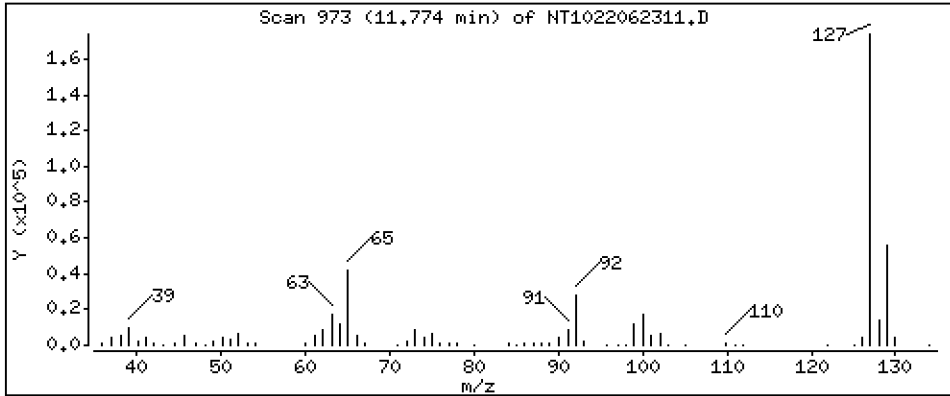
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 4,646 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

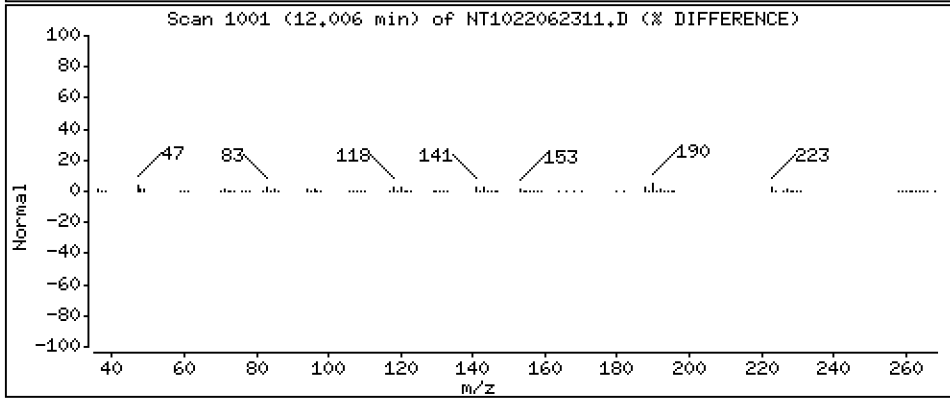
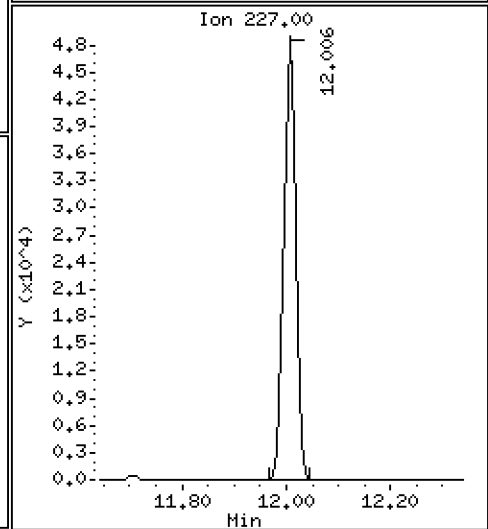
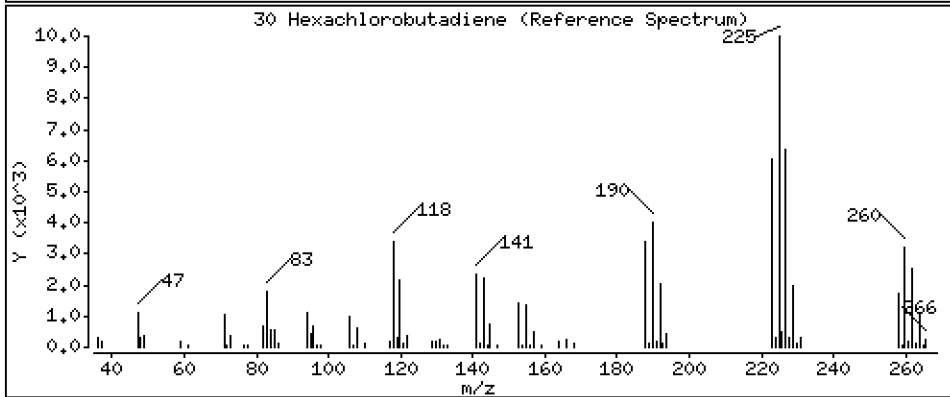
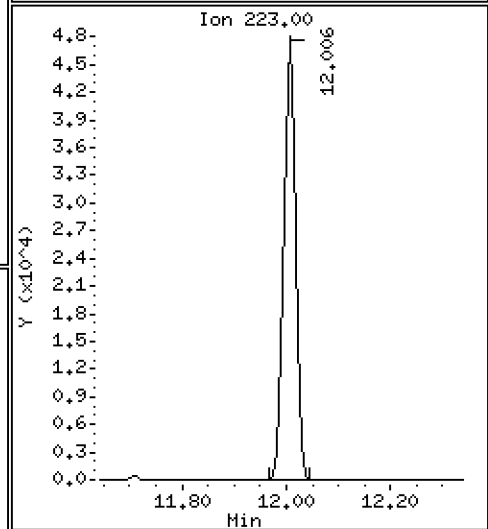
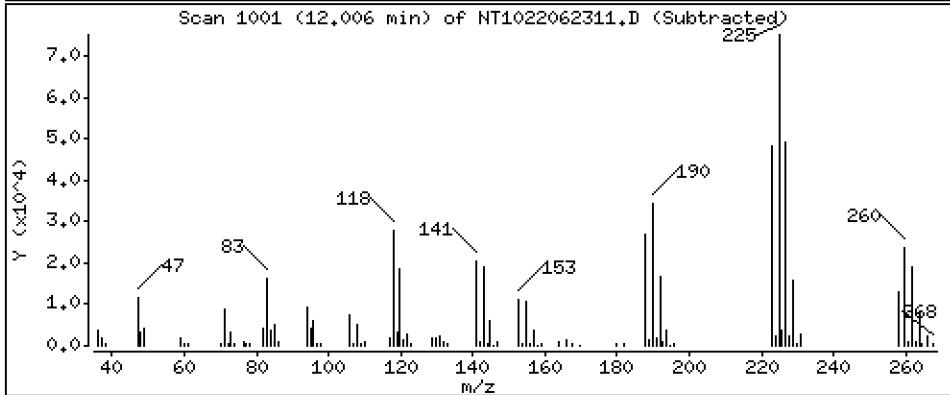
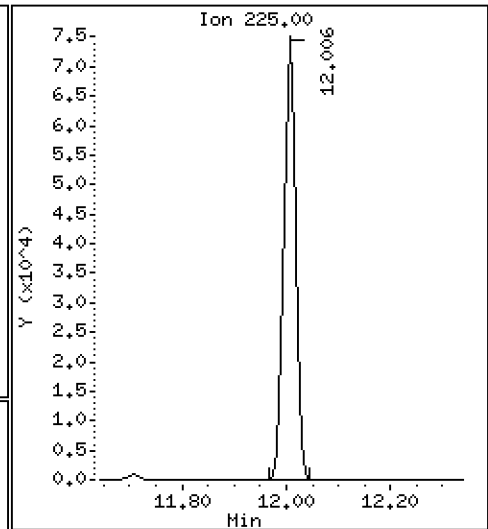
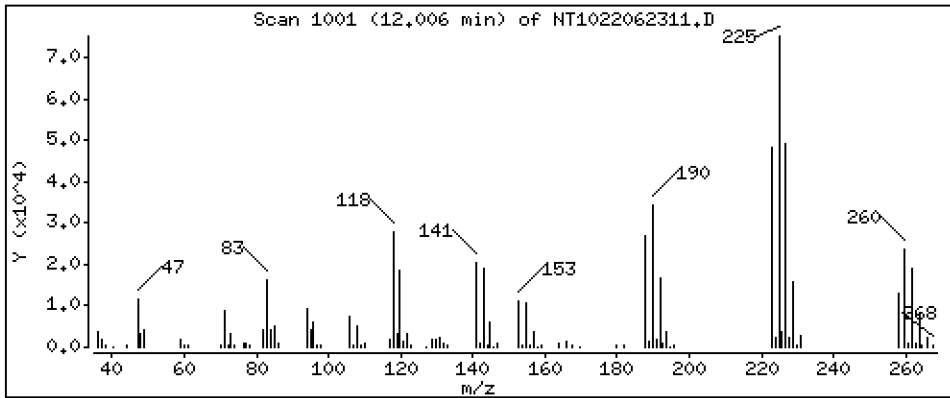
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 5,339 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

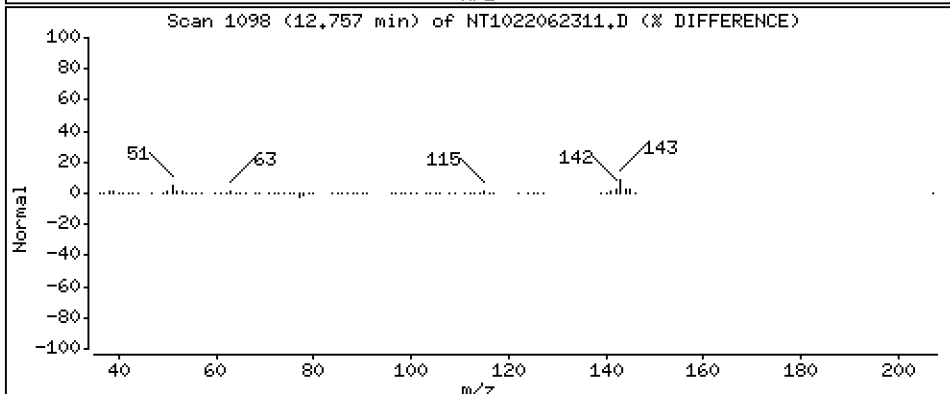
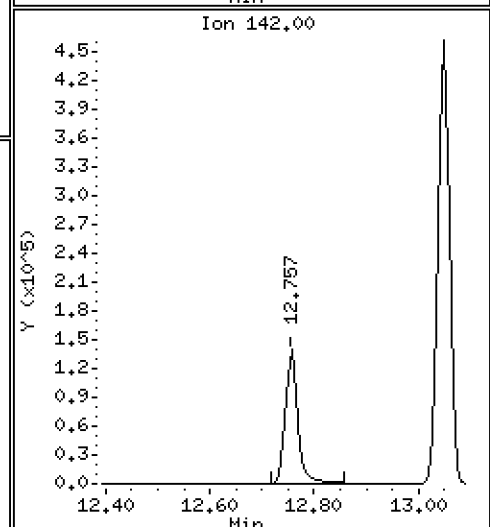
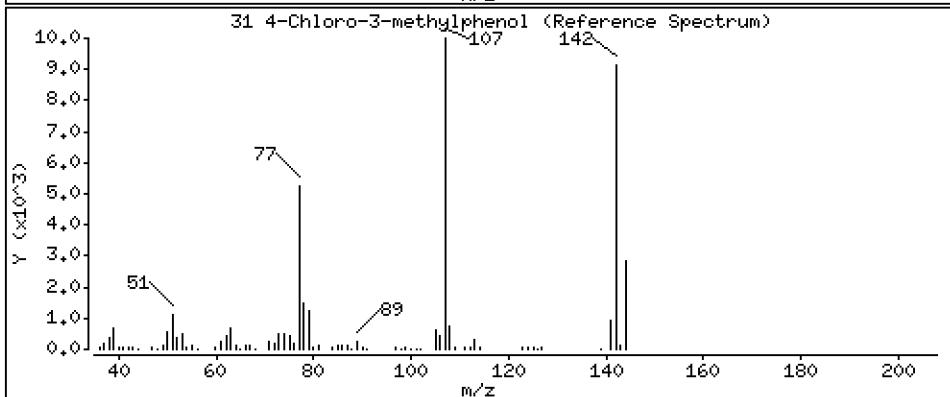
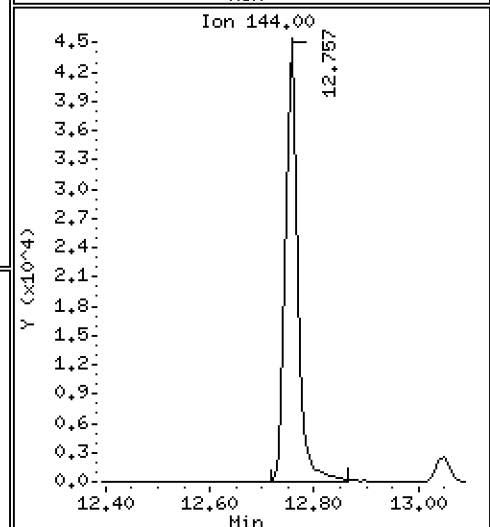
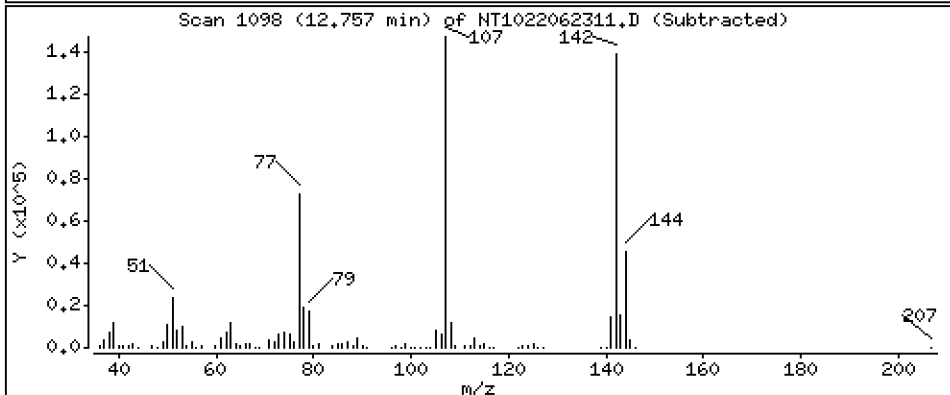
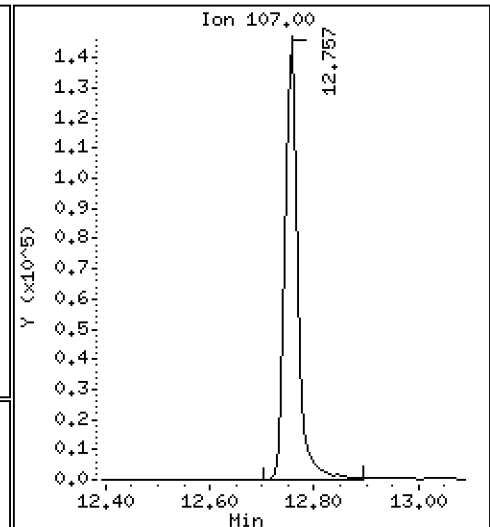
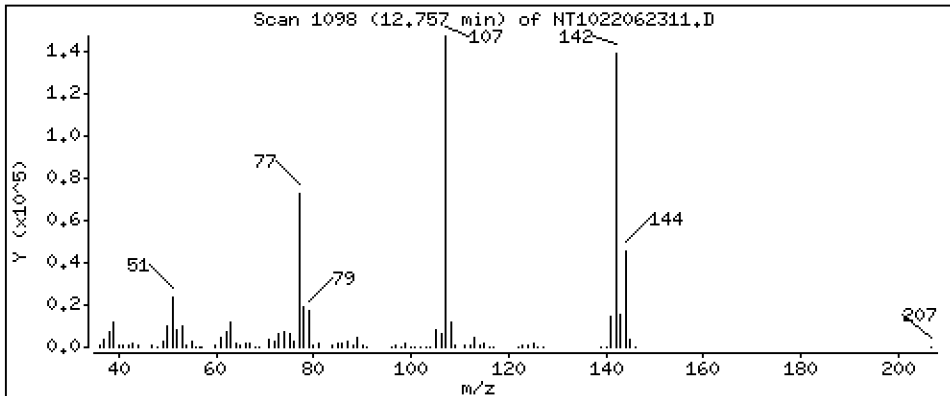
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 4,853 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

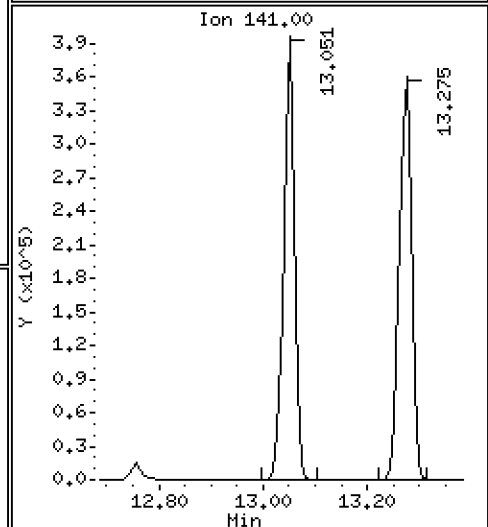
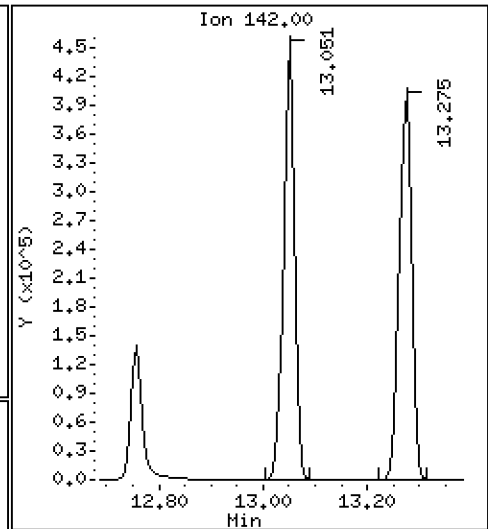
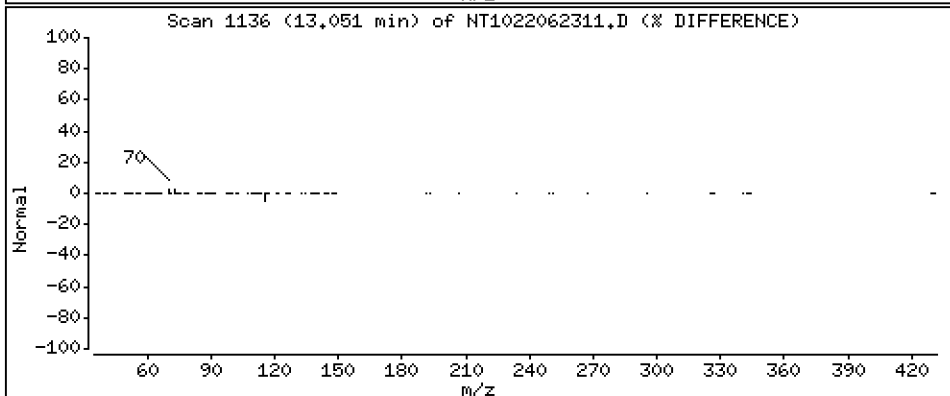
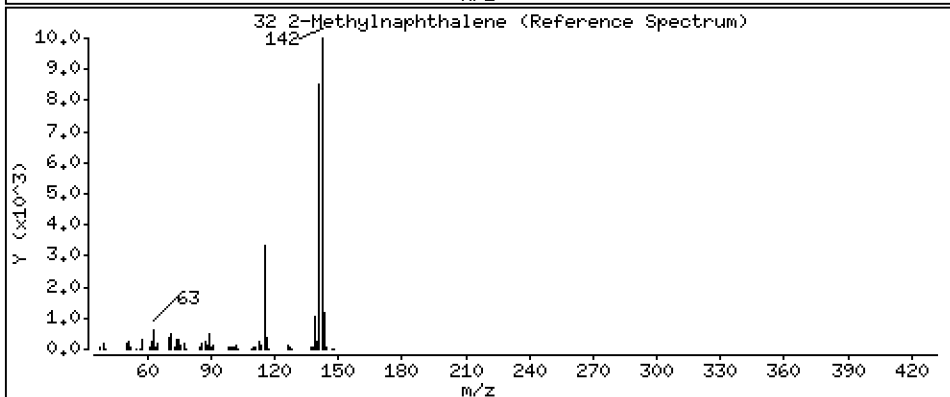
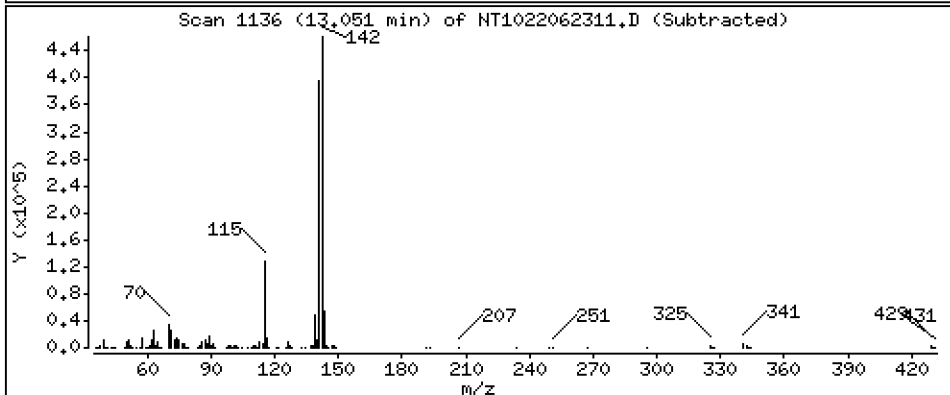
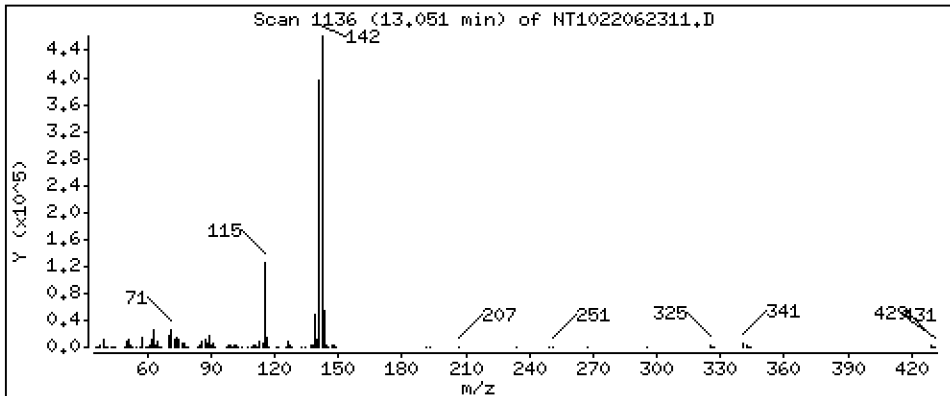
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 5,214 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

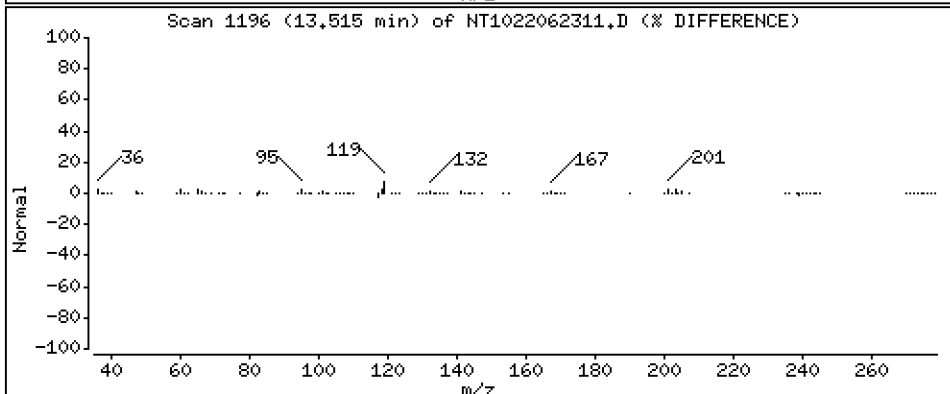
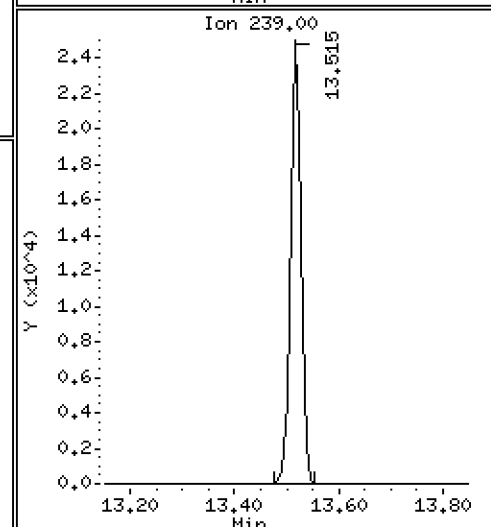
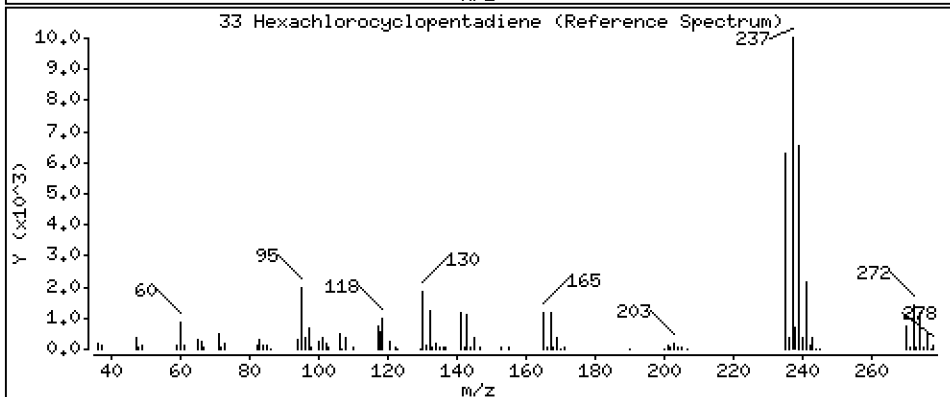
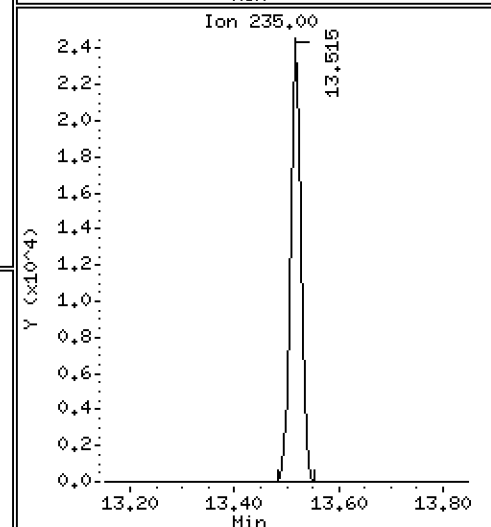
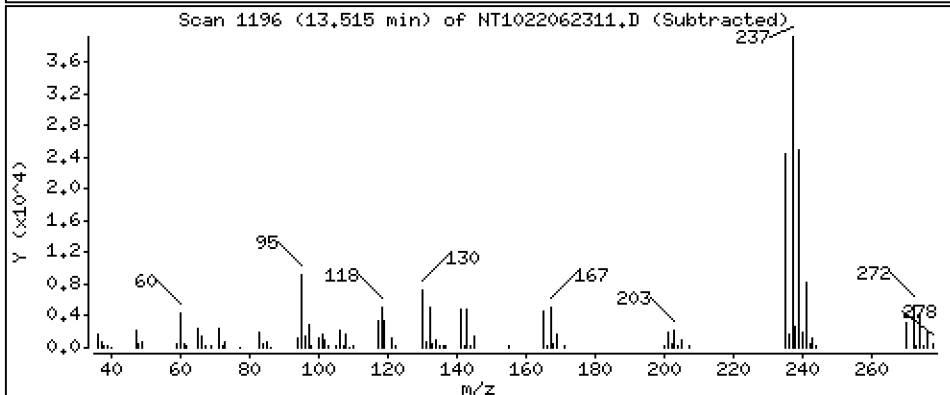
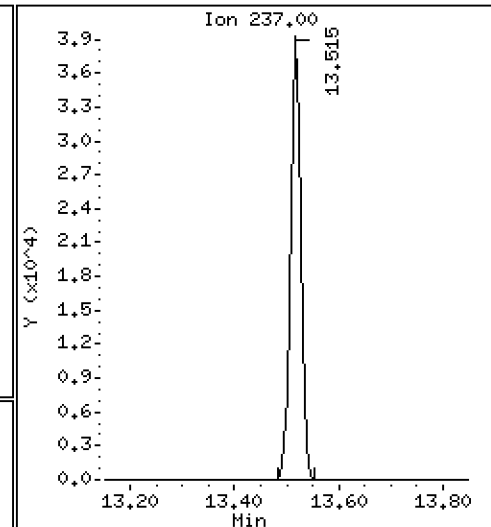
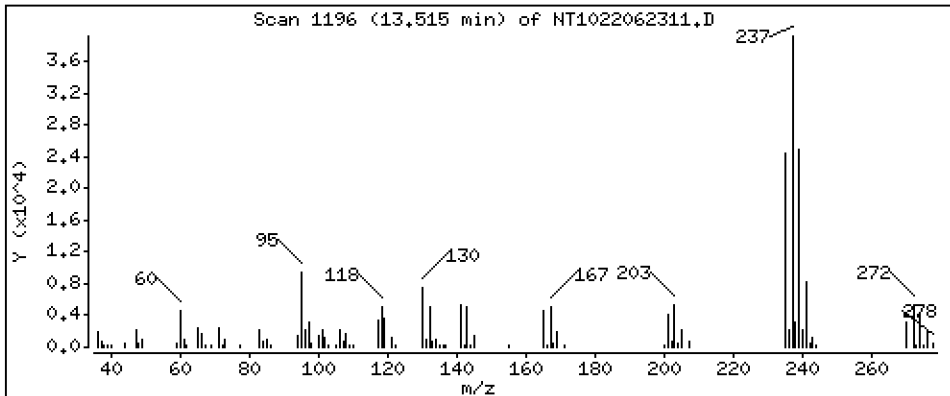
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 3,326 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

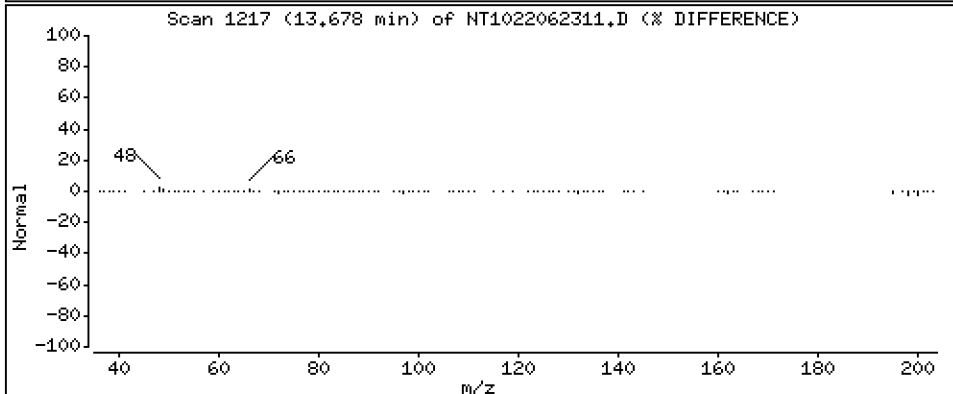
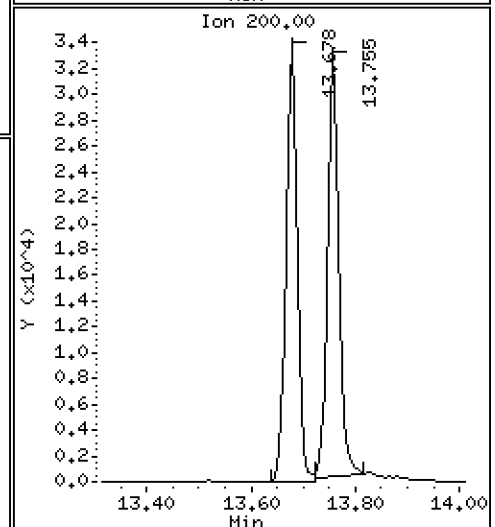
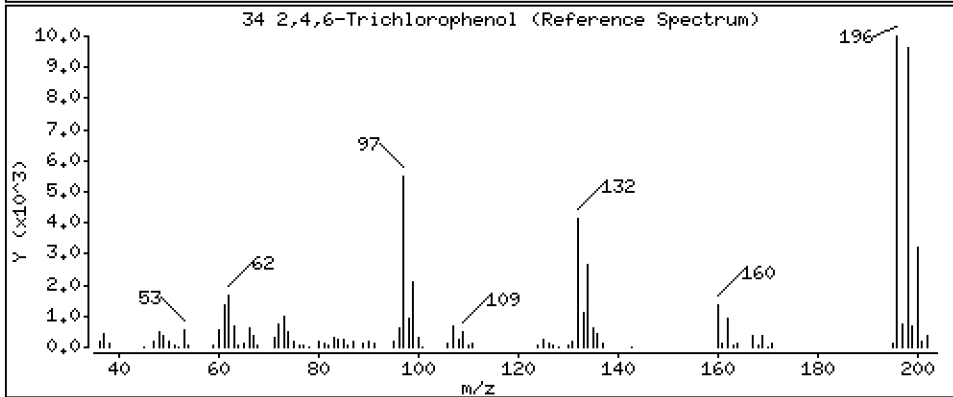
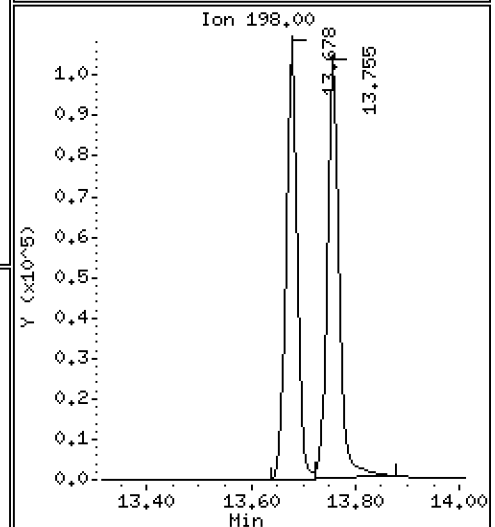
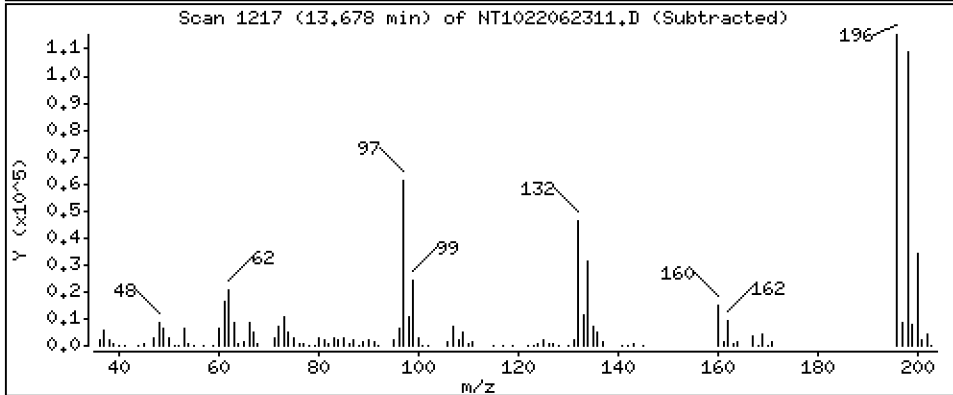
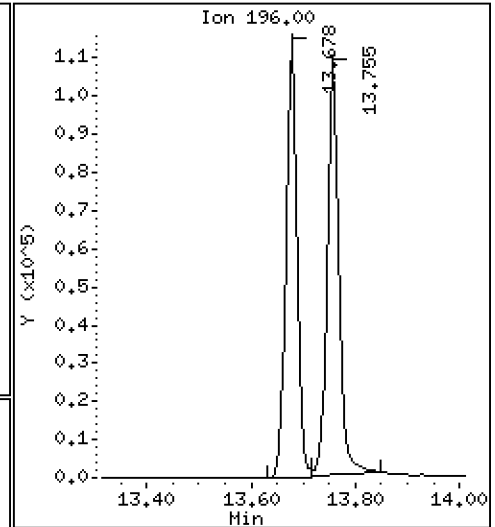
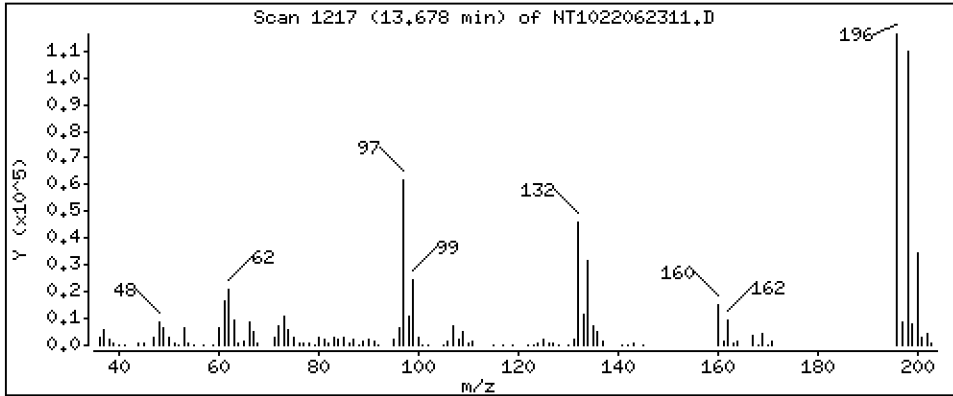
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 5,242 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

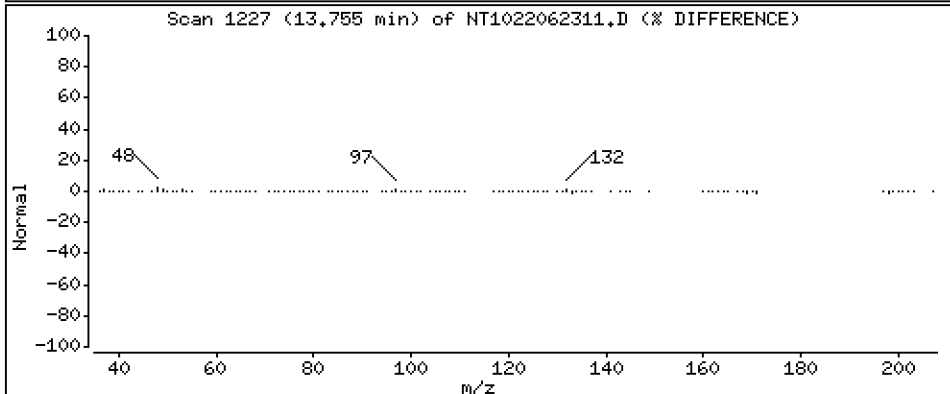
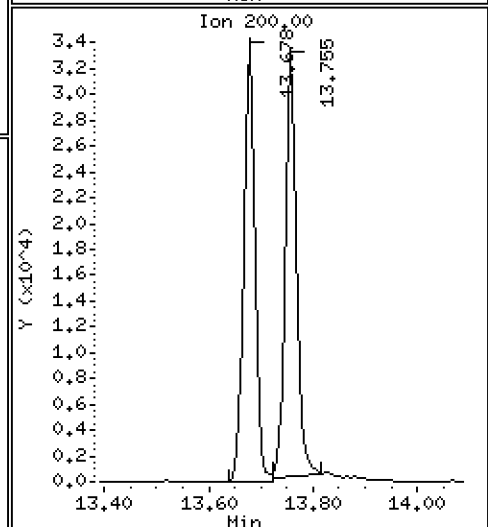
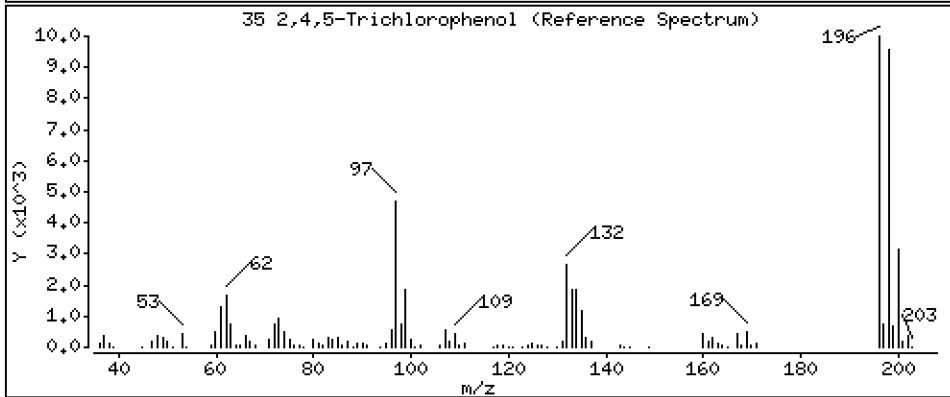
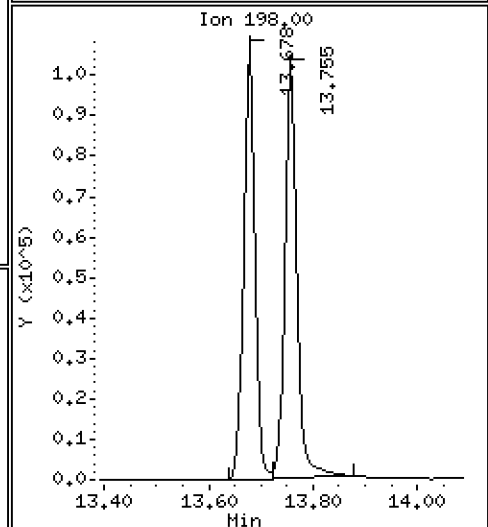
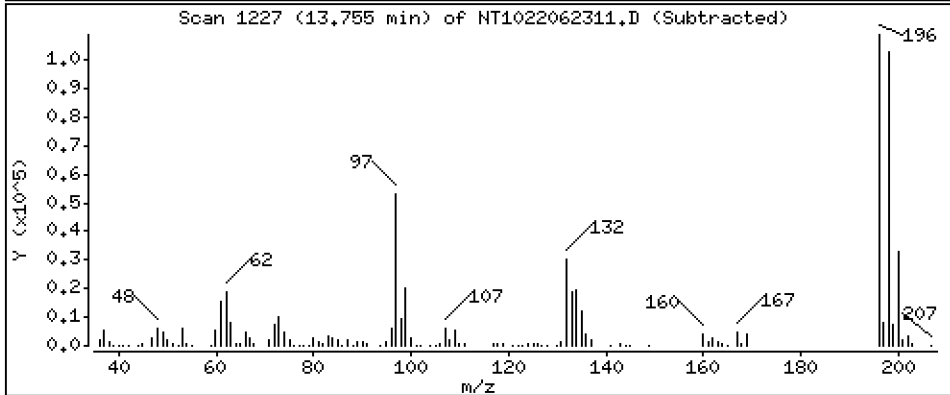
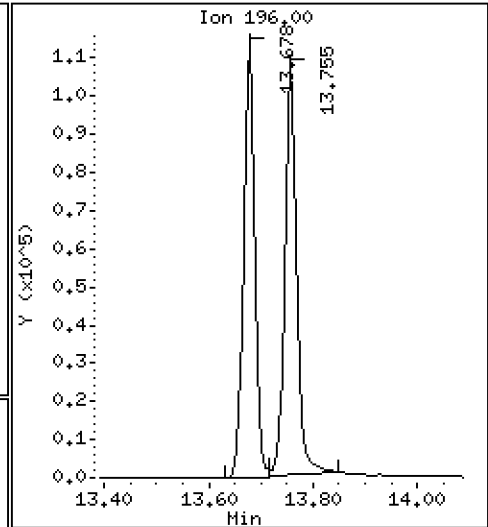
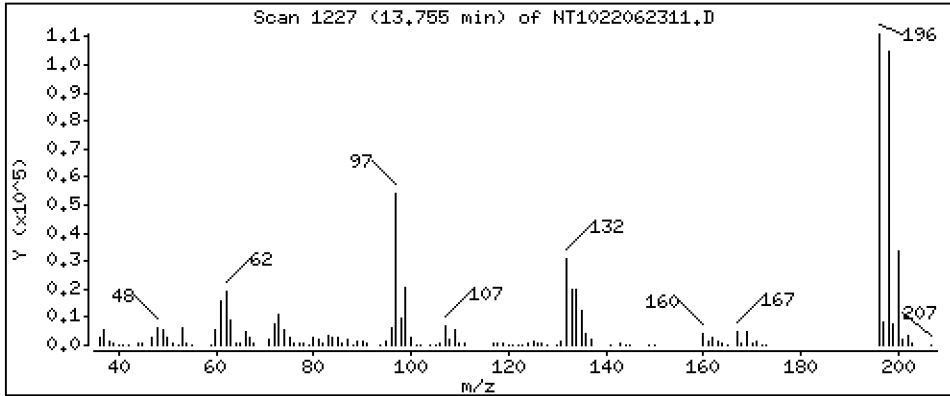
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,427 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

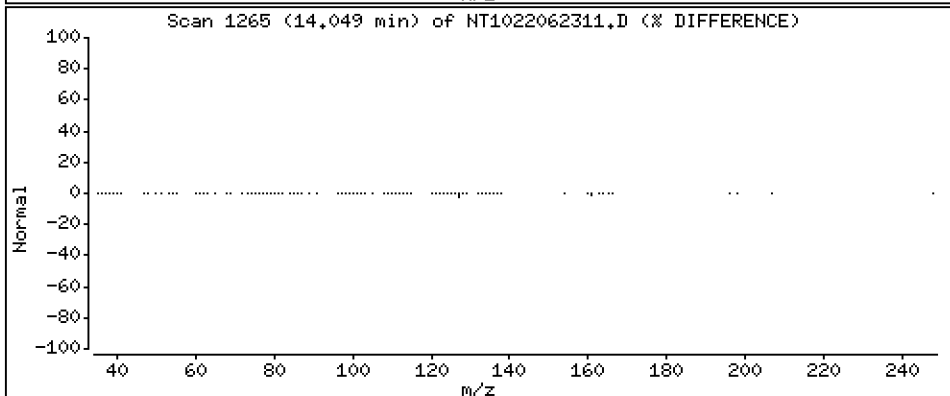
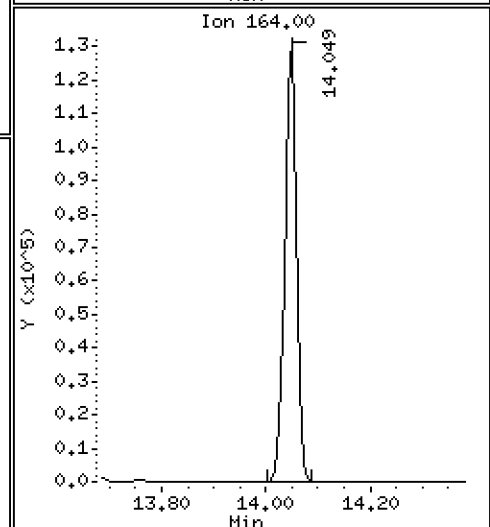
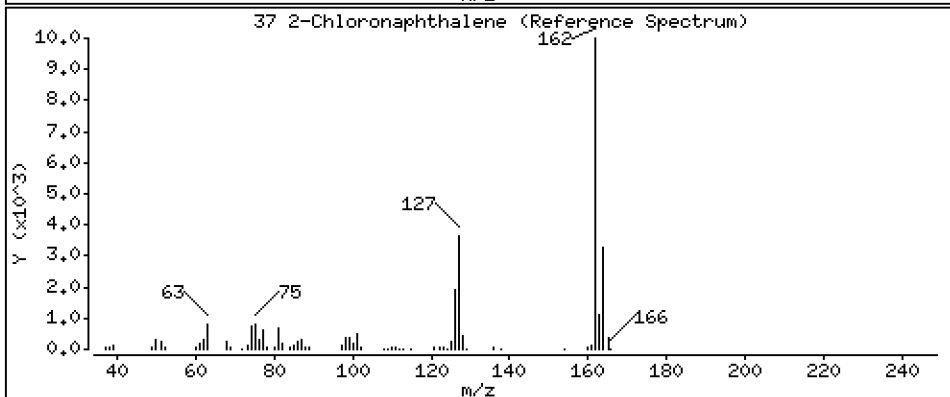
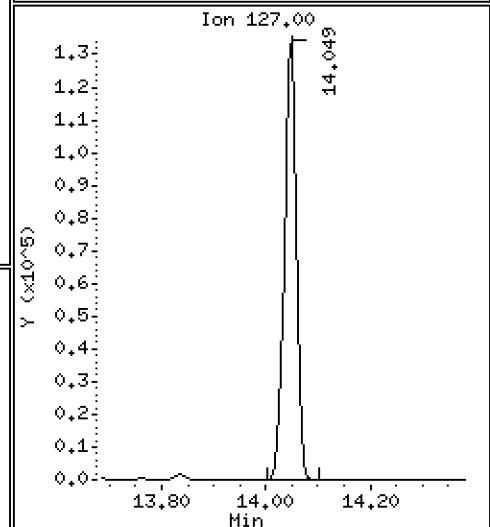
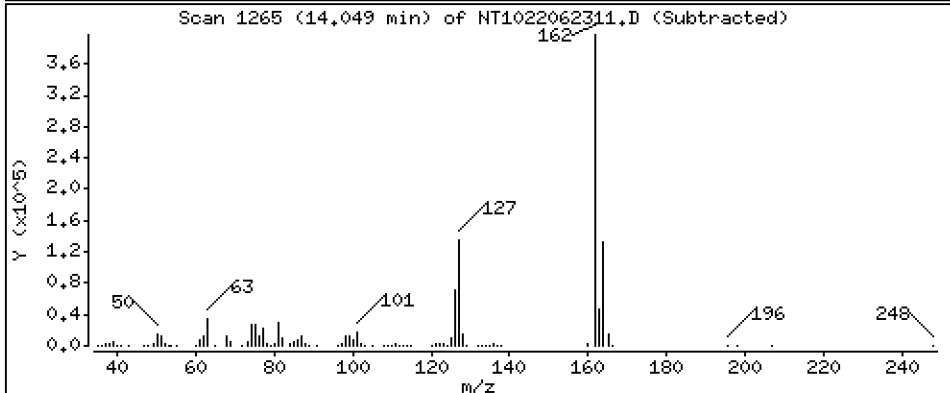
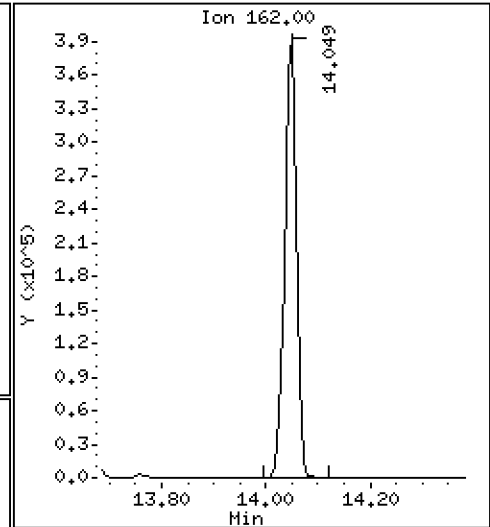
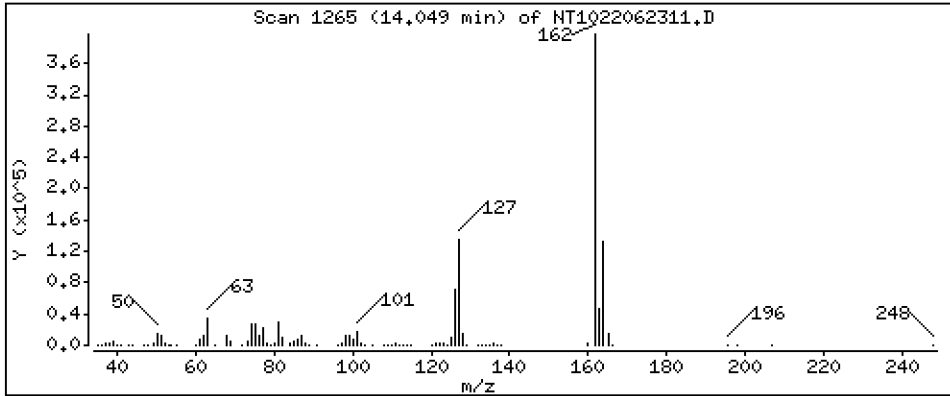
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 5,462 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

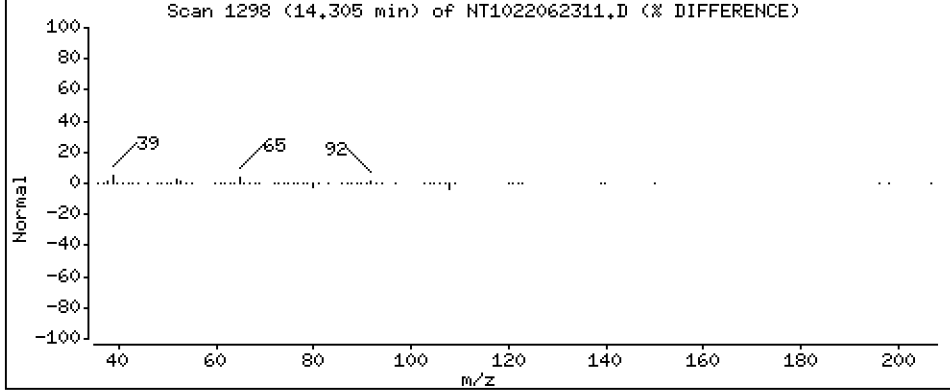
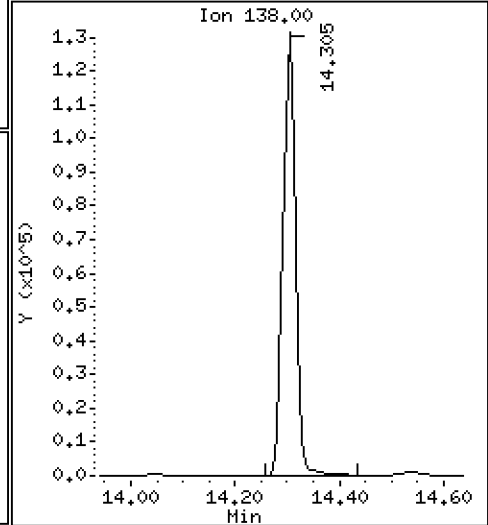
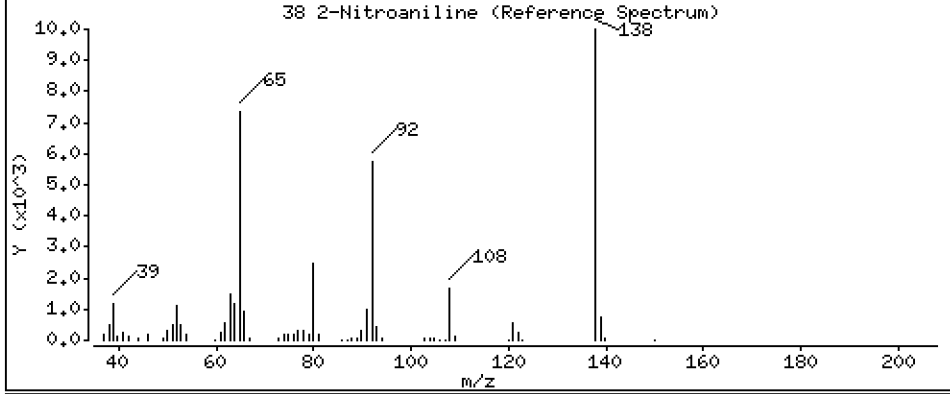
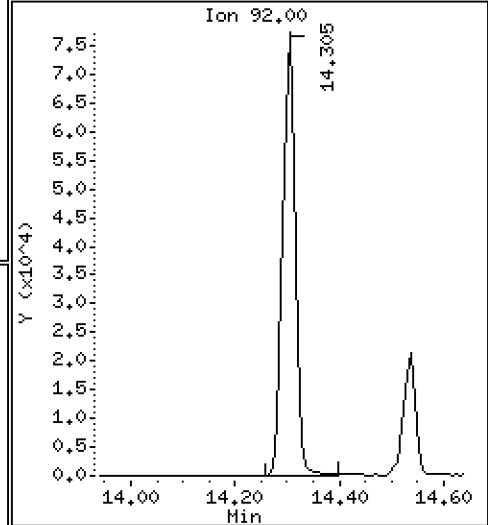
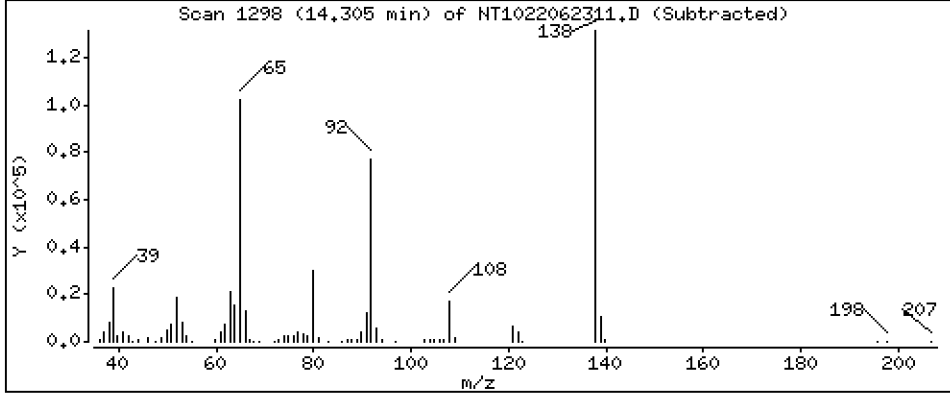
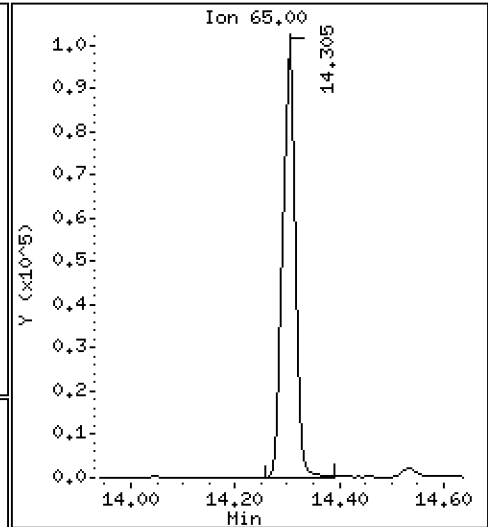
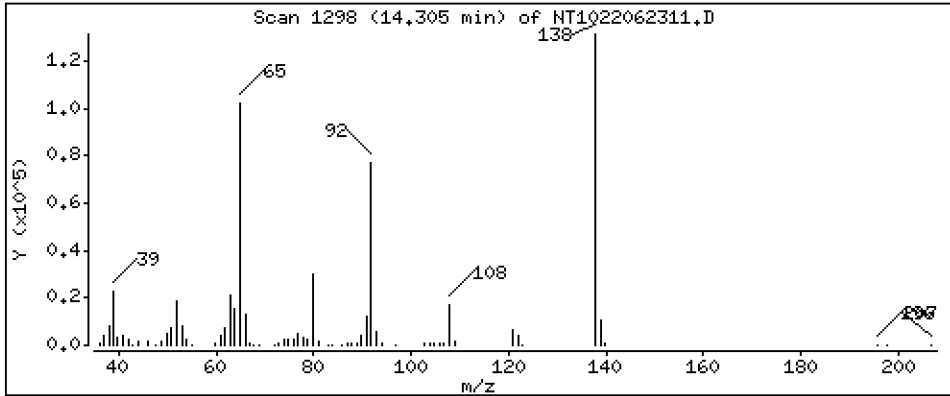
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 5,342 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

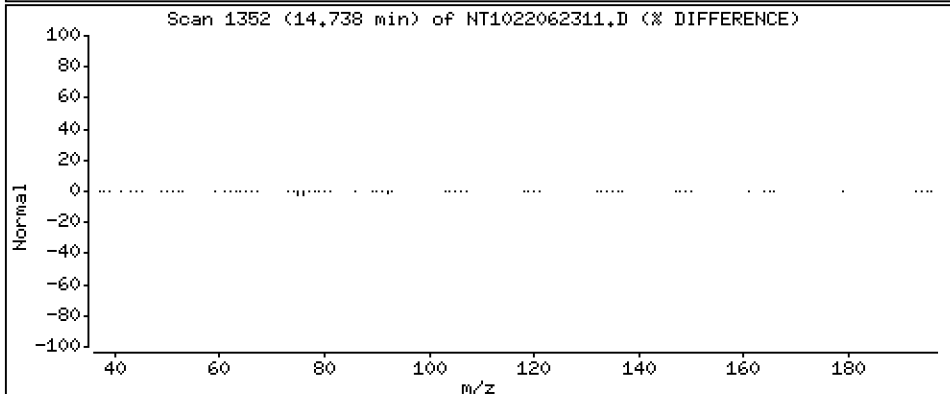
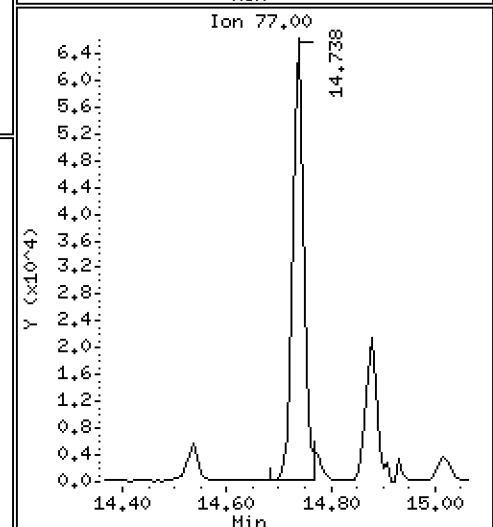
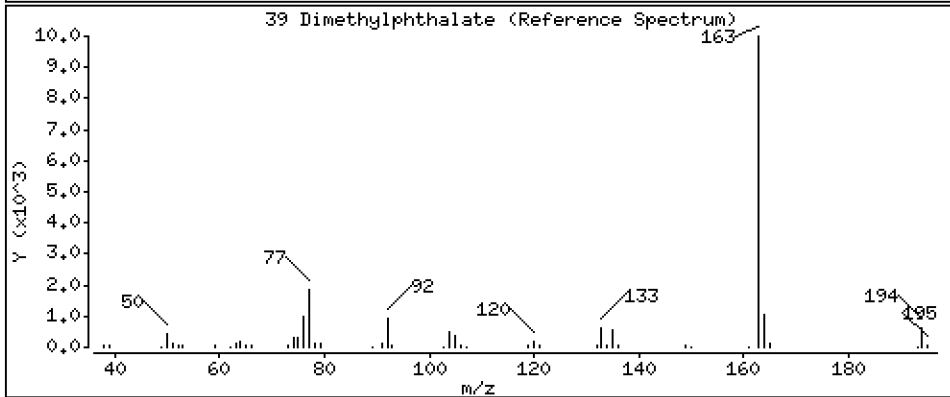
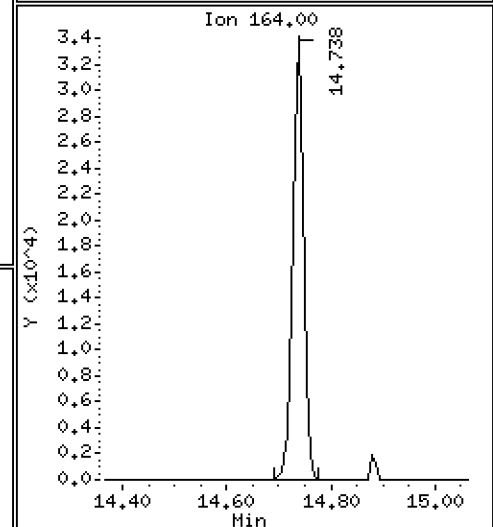
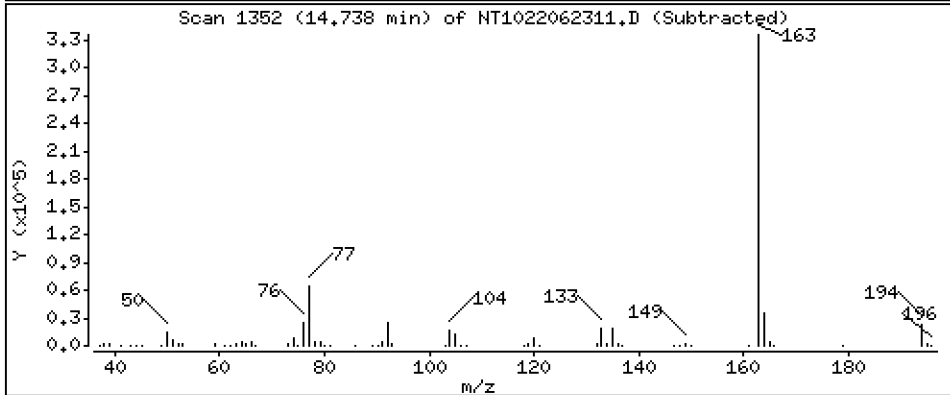
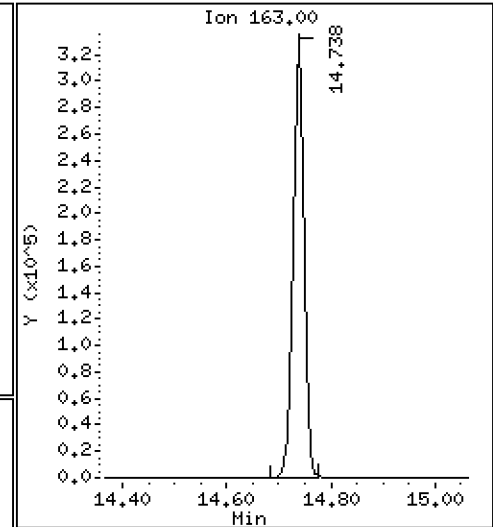
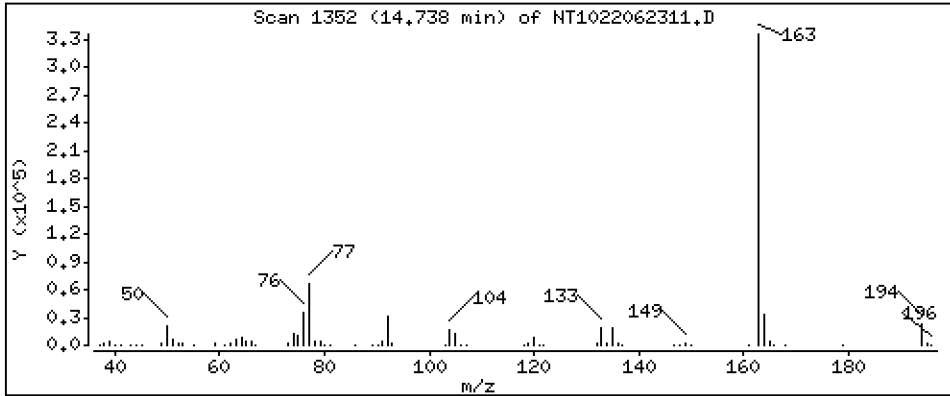
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,973 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

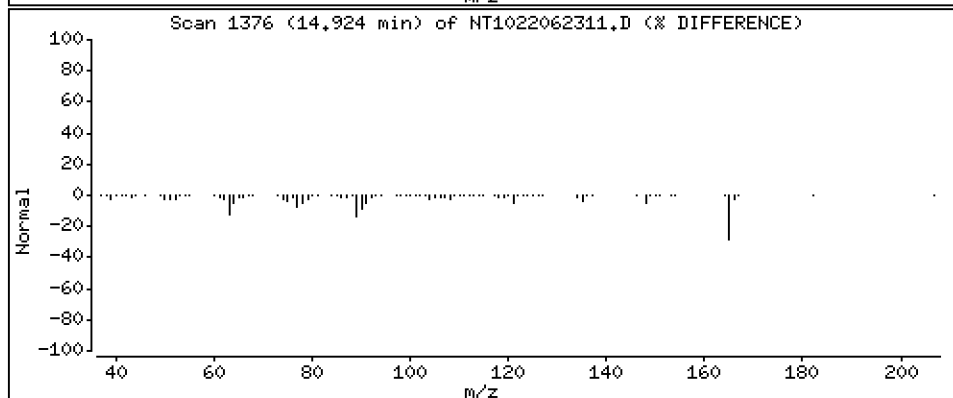
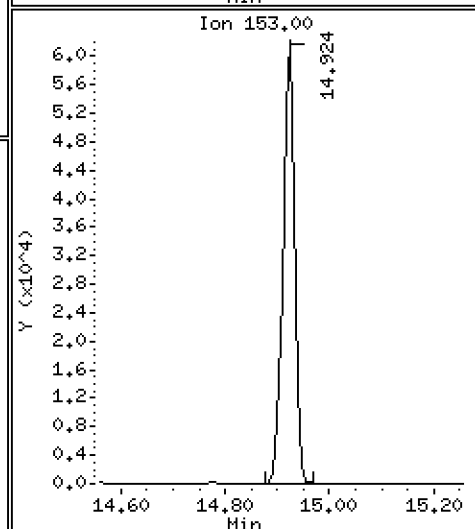
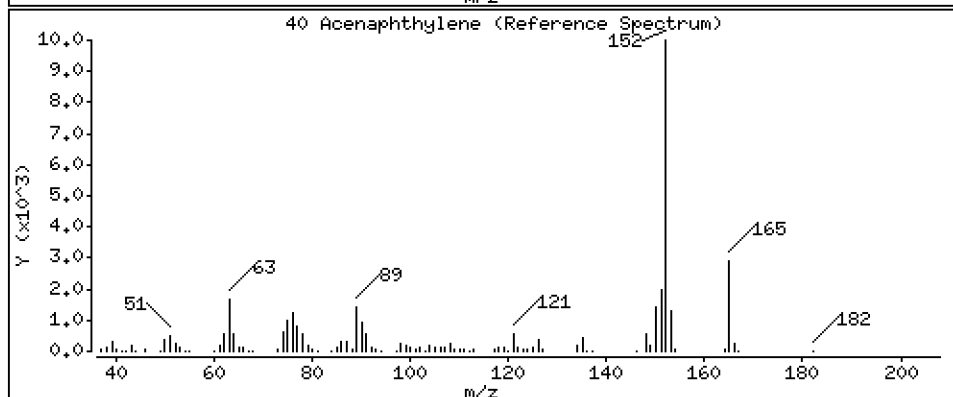
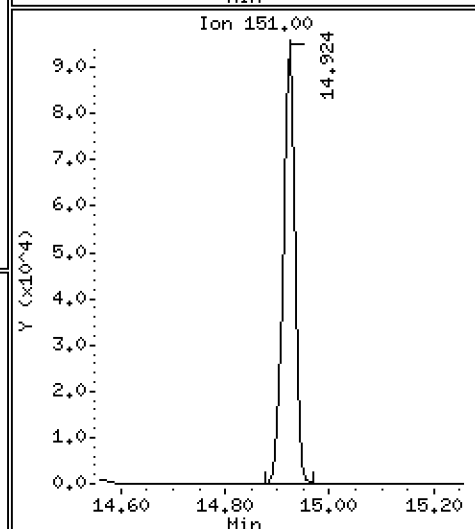
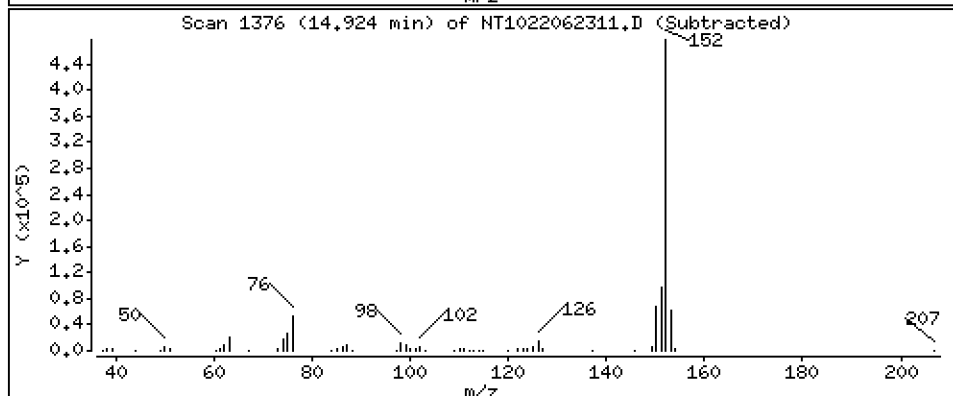
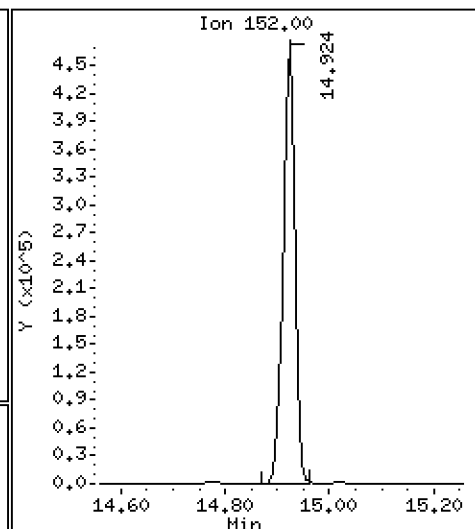
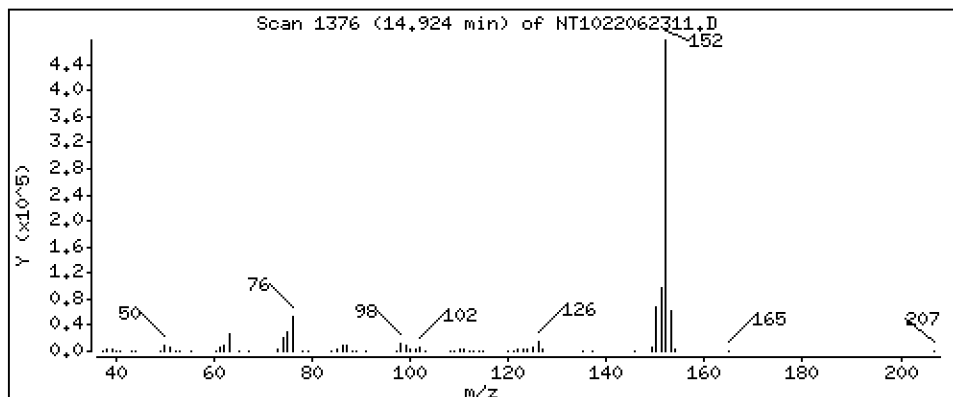
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,476 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

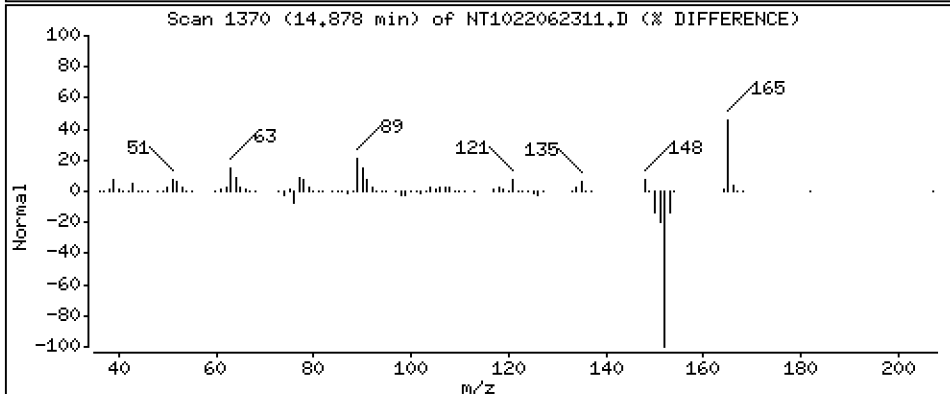
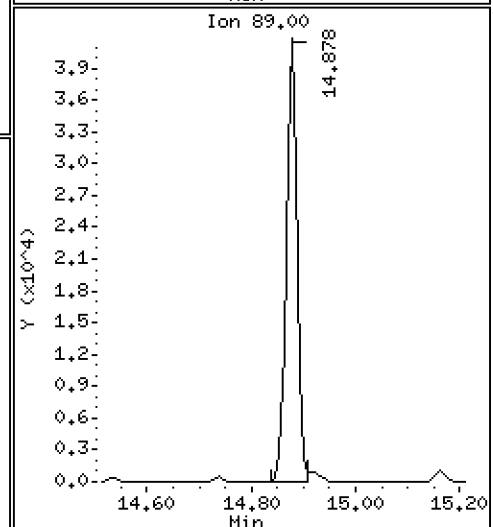
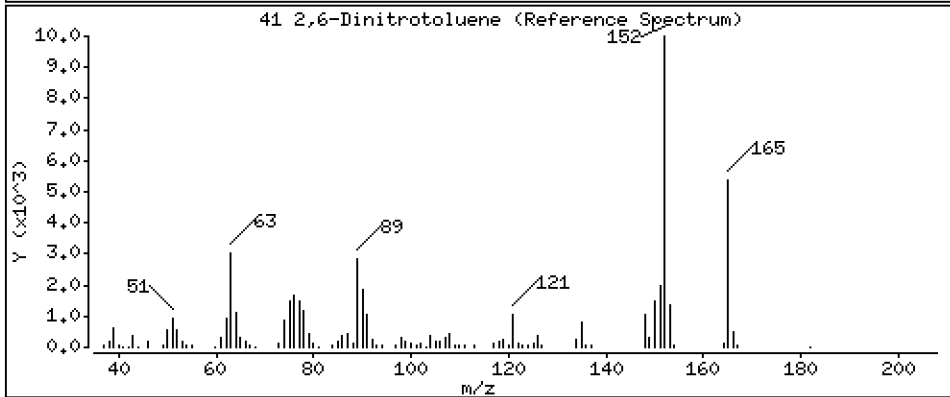
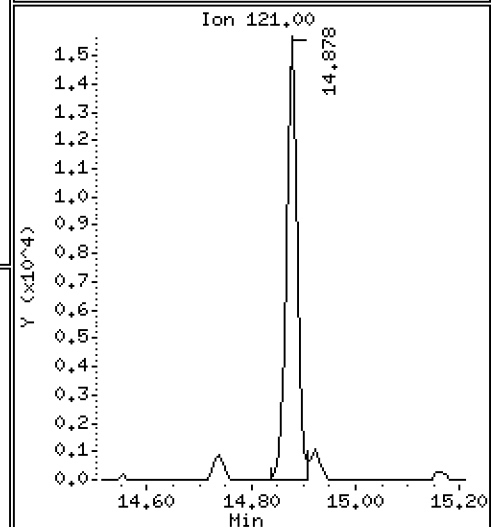
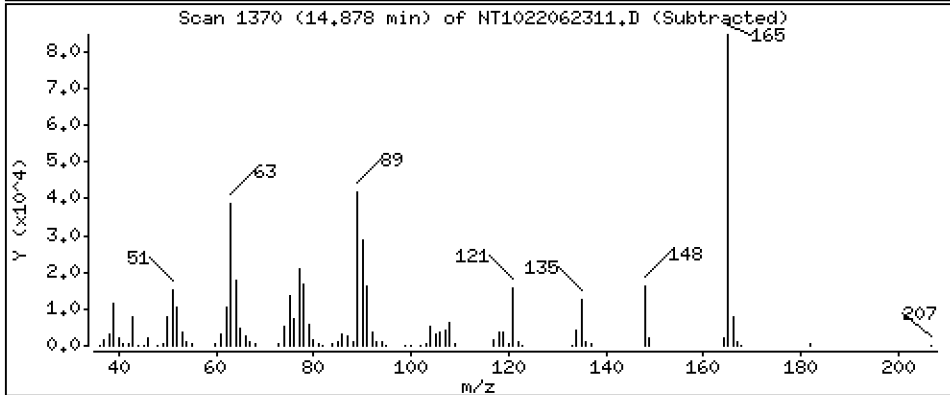
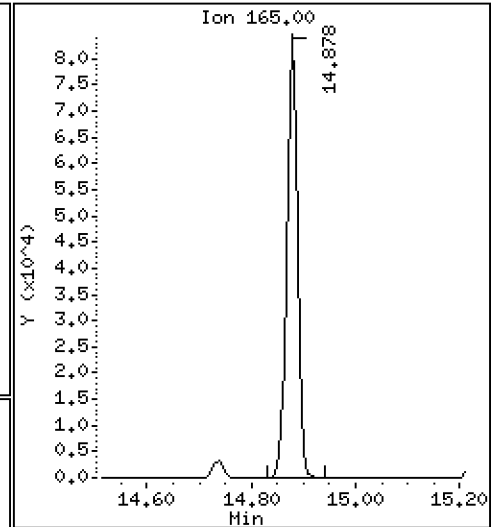
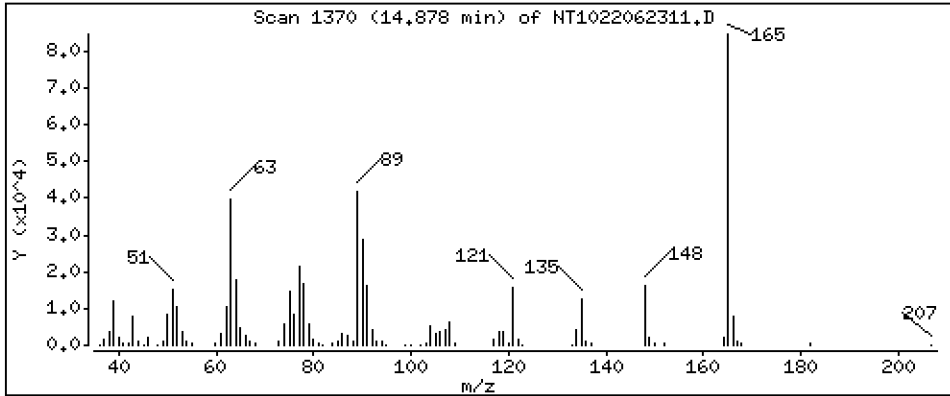
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,256 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

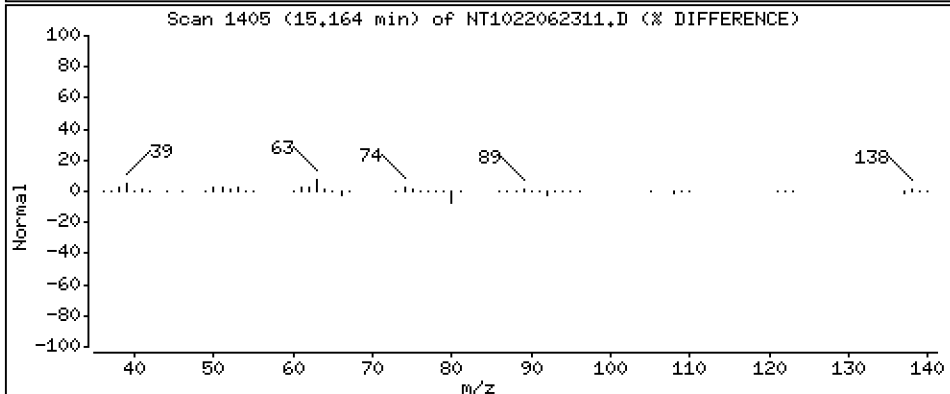
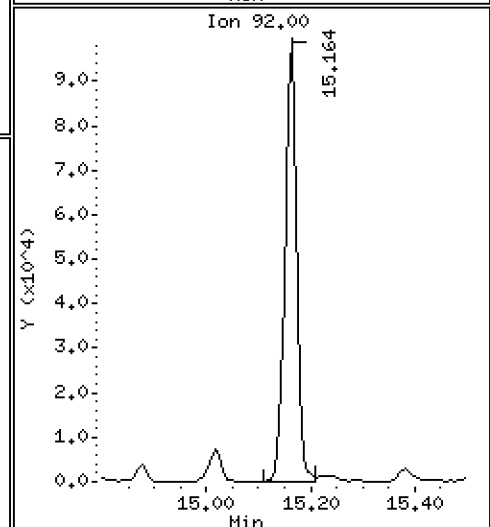
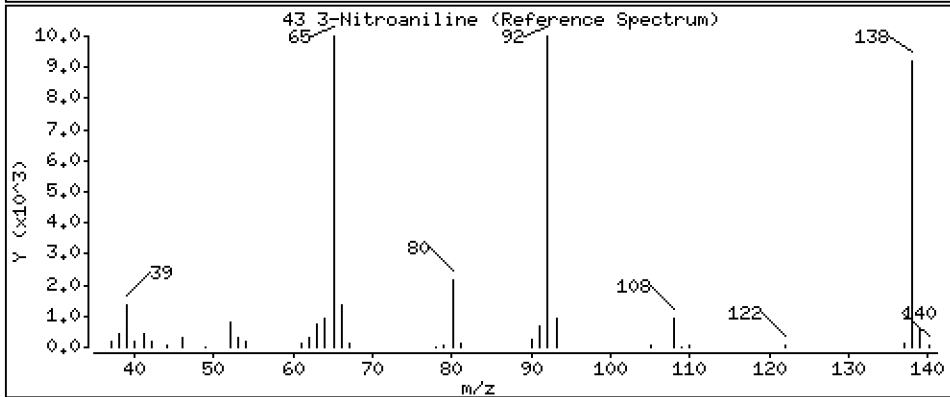
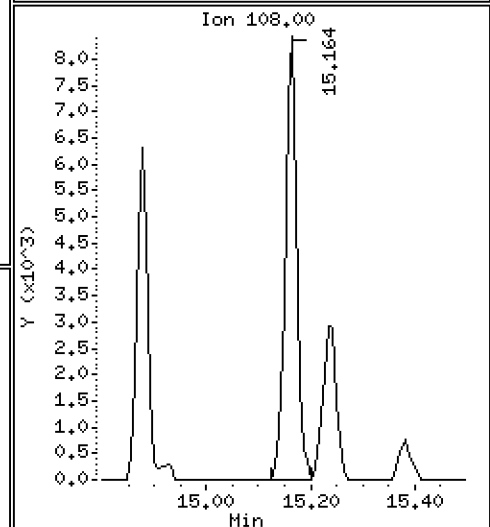
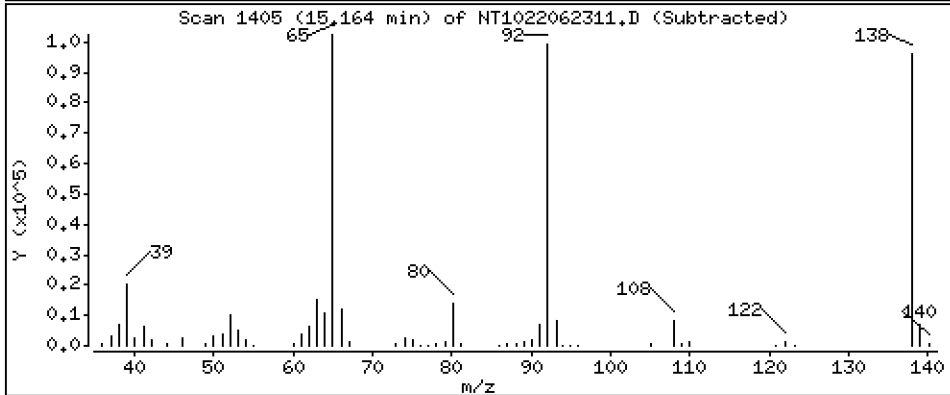
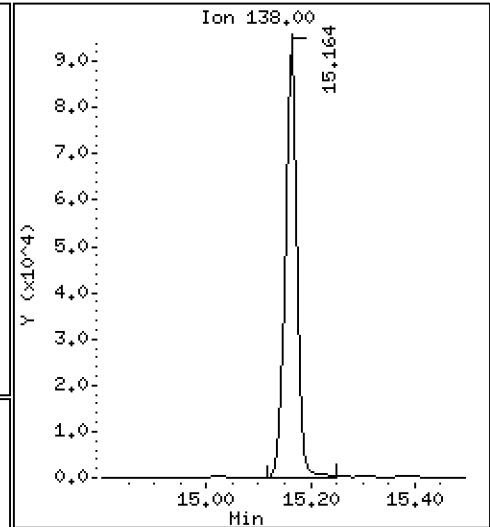
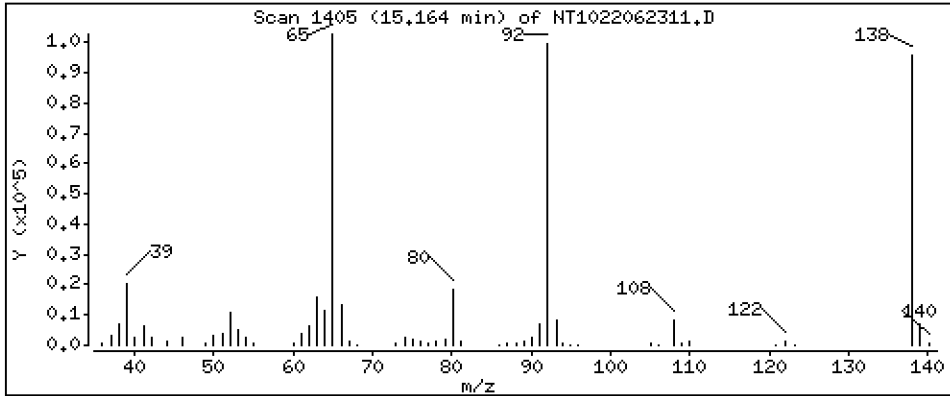
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 5,379 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

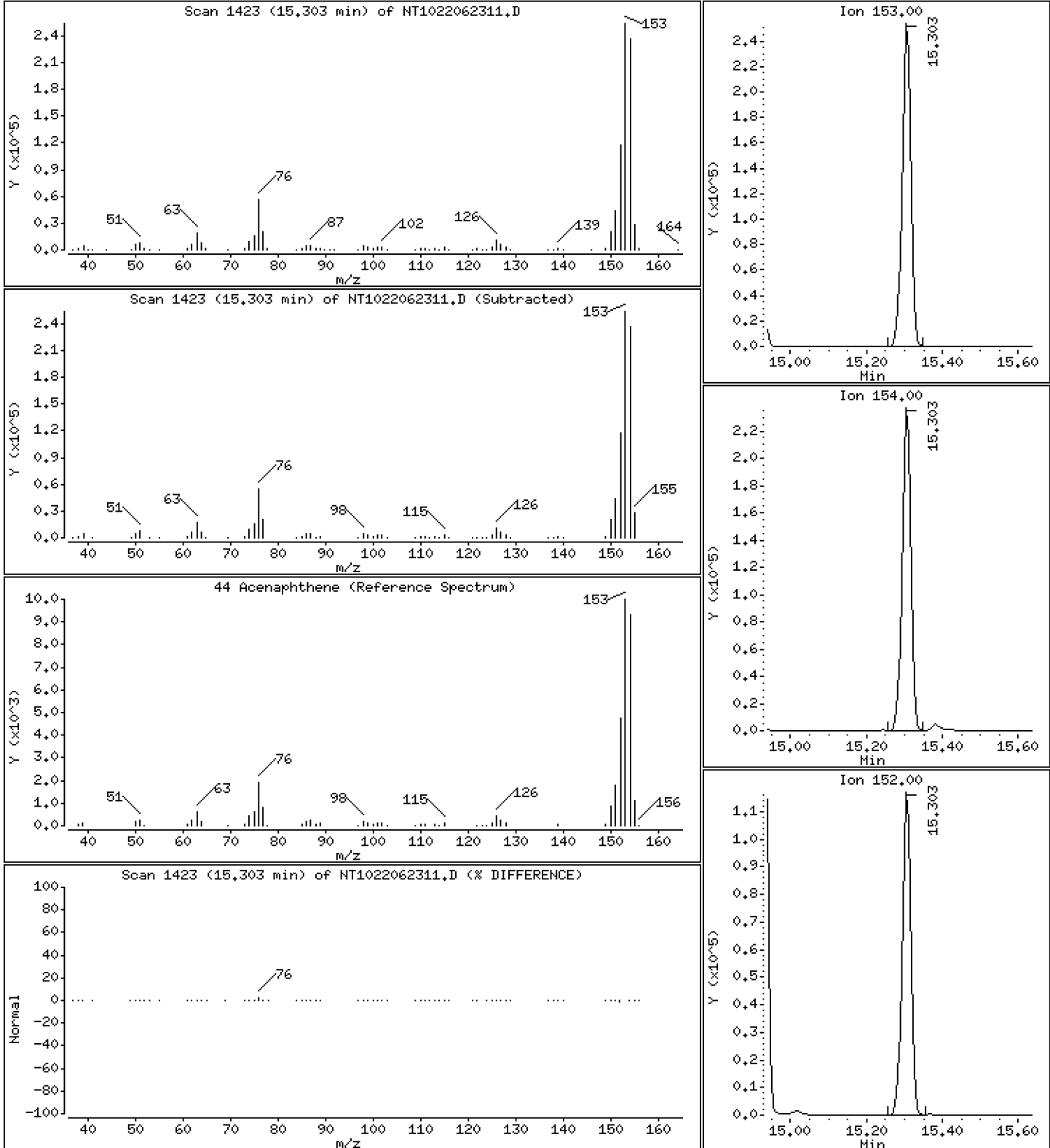
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,939 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

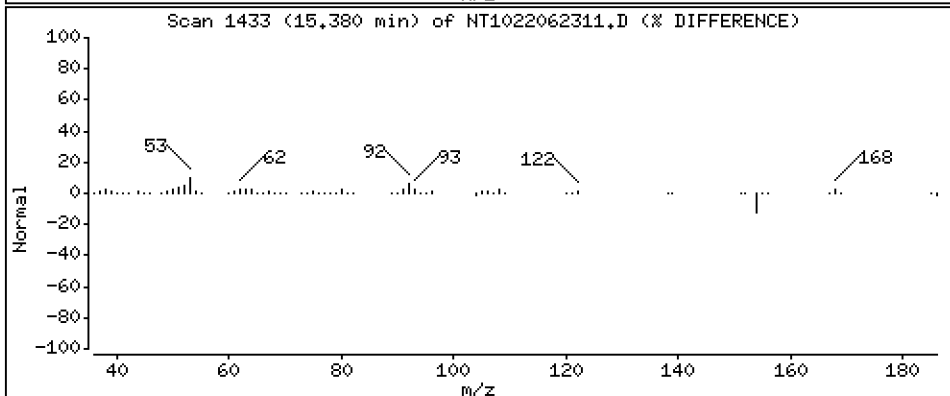
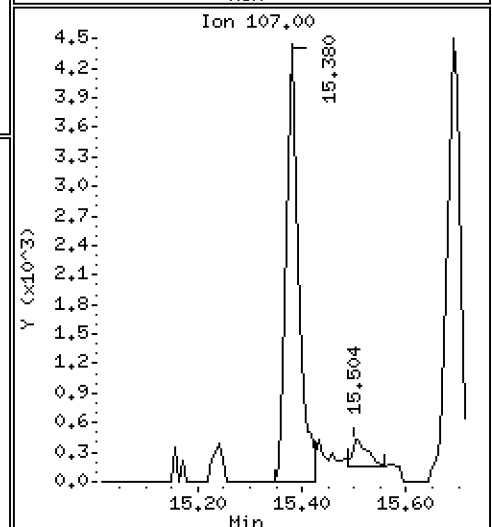
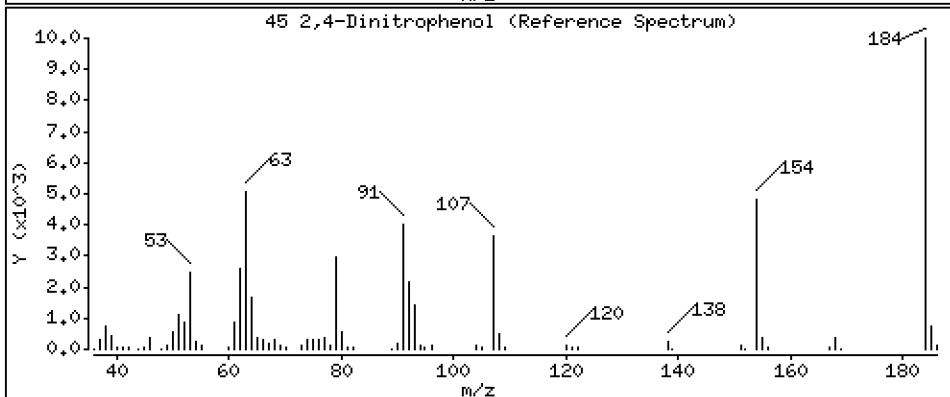
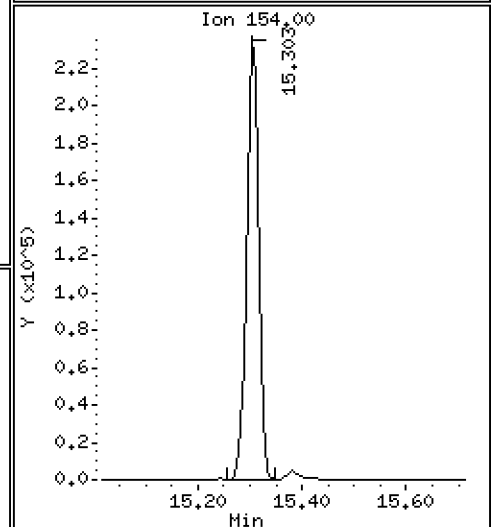
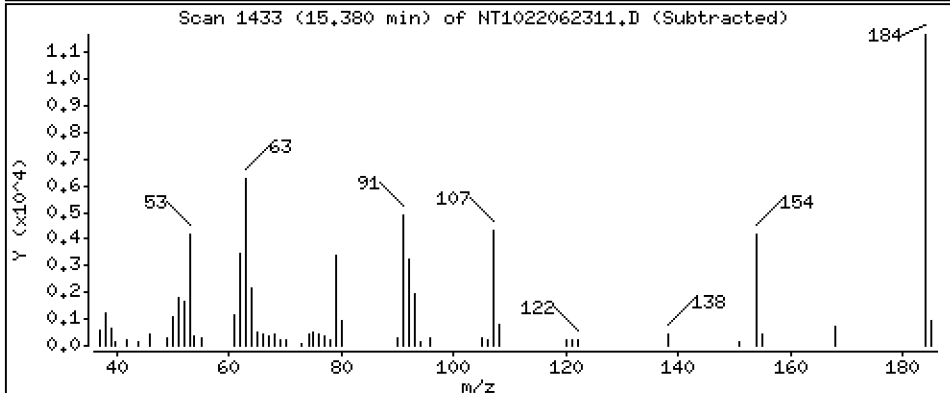
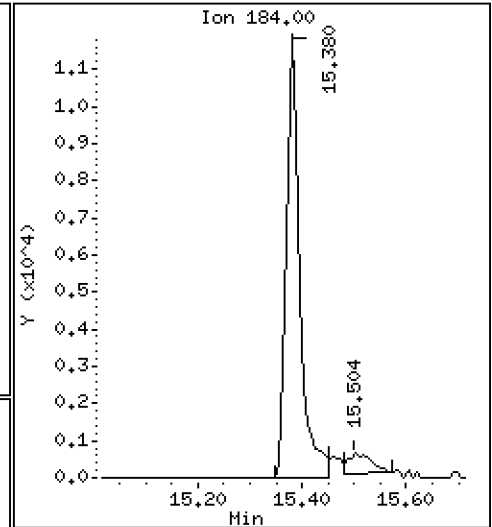
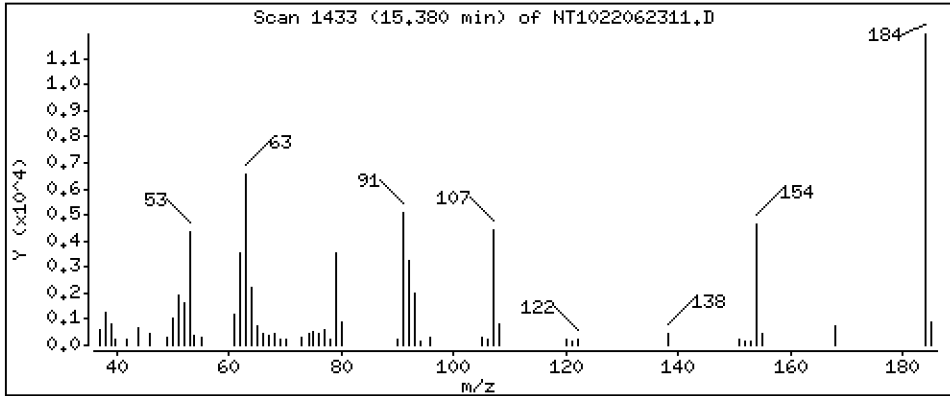
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 2,023 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

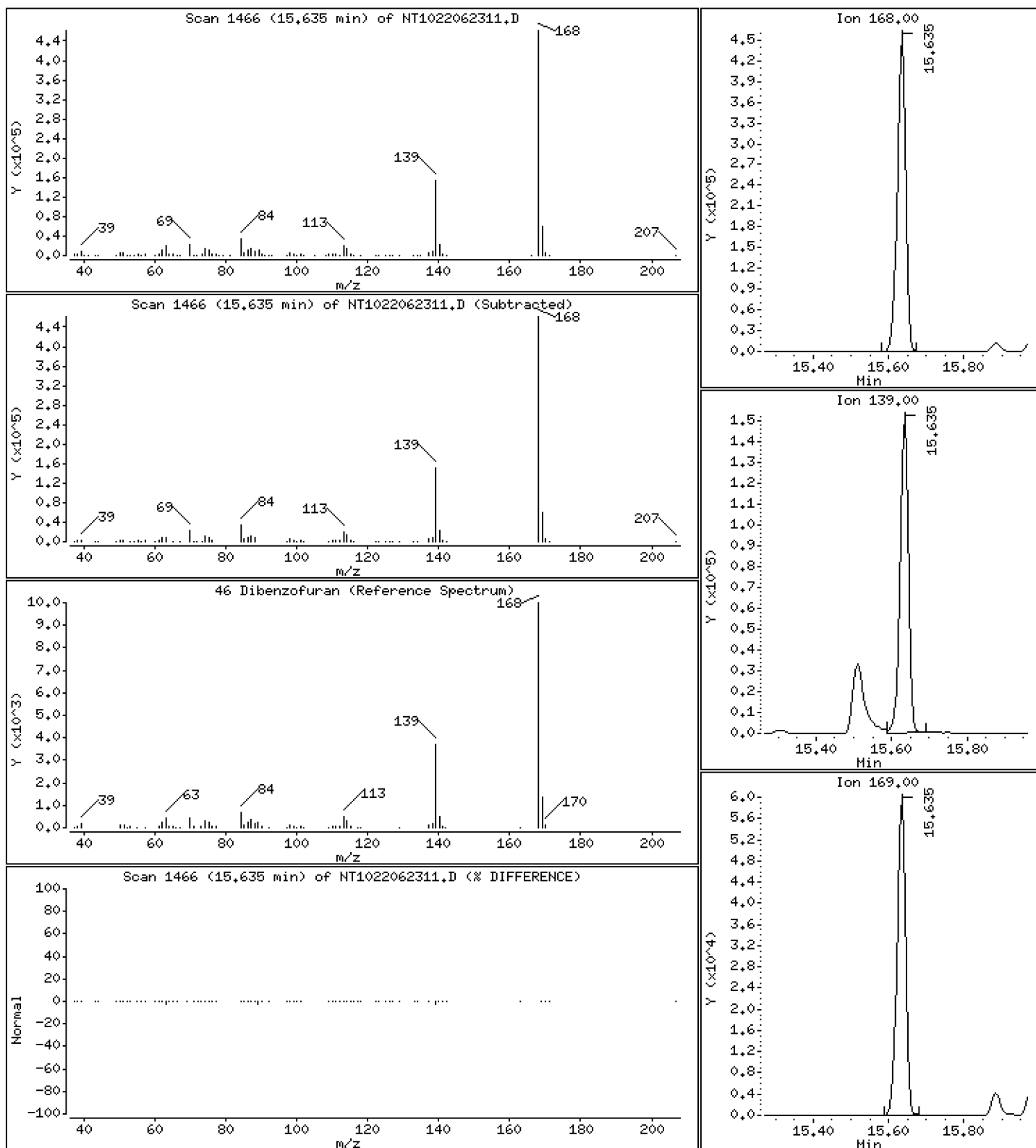
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 5,340 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

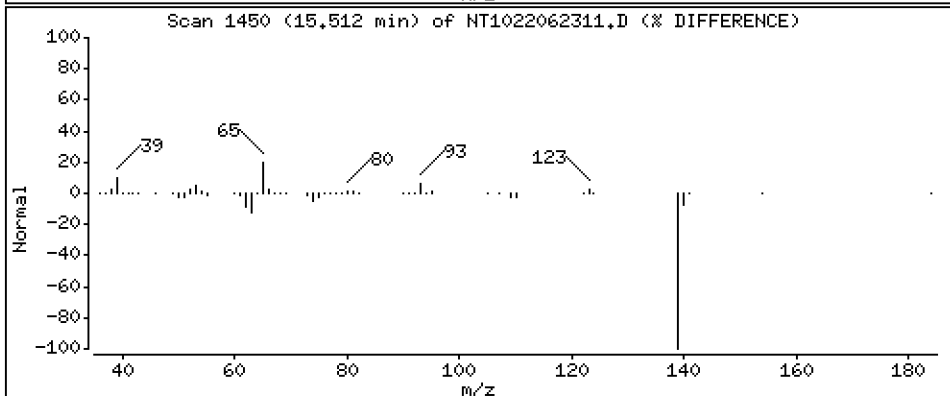
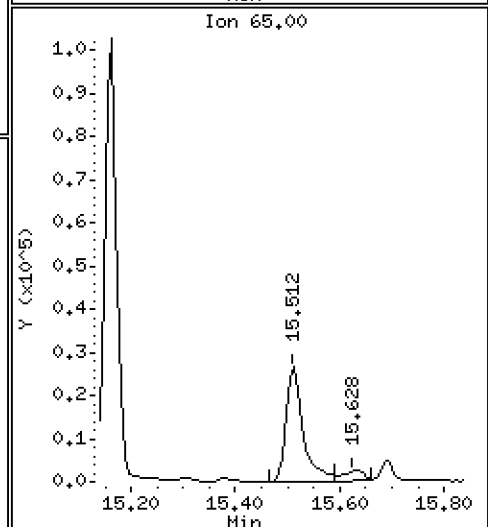
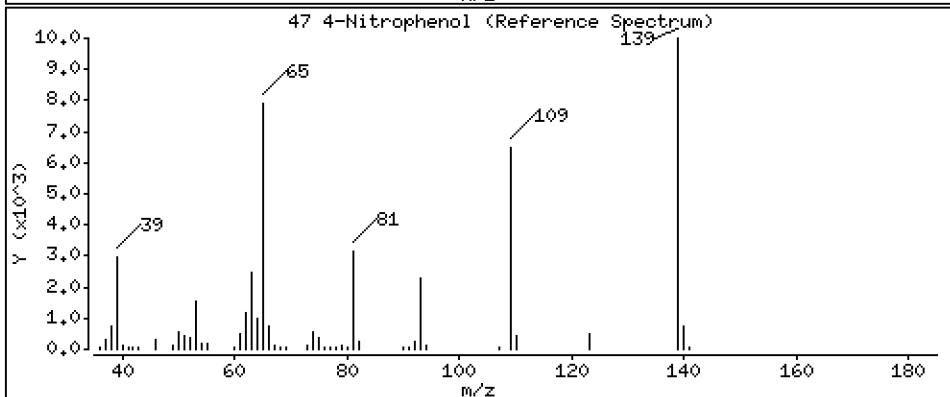
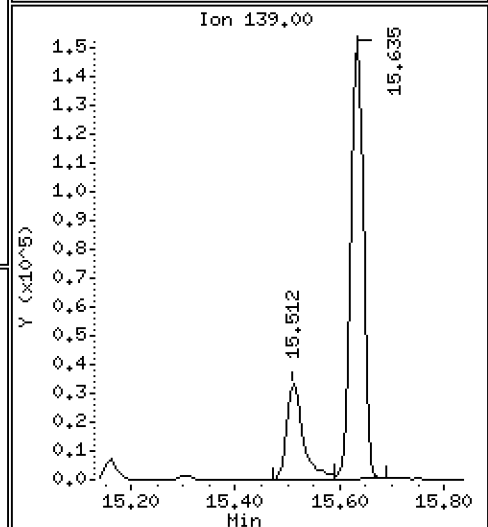
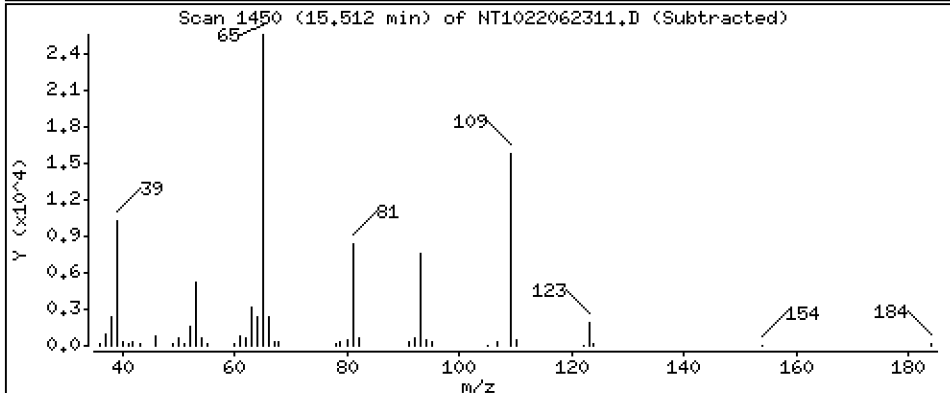
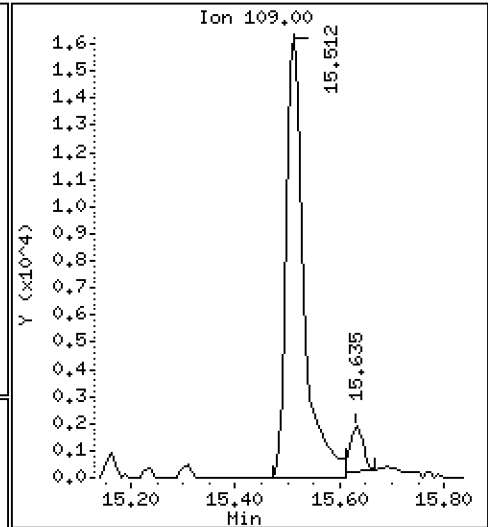
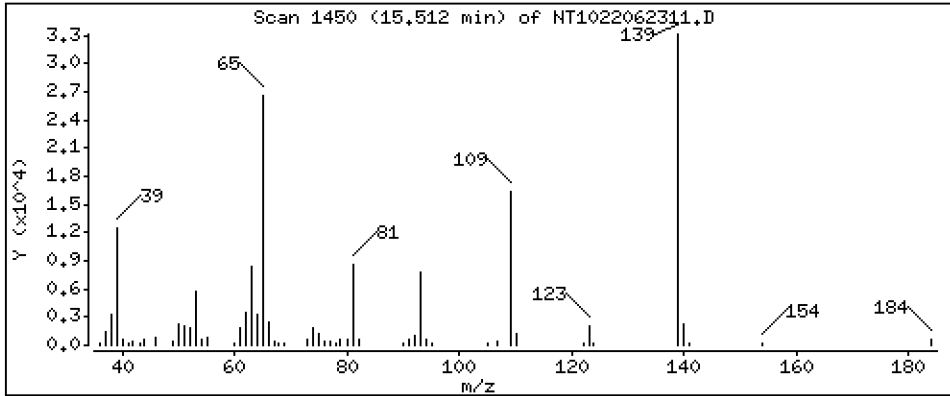
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 4.435 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

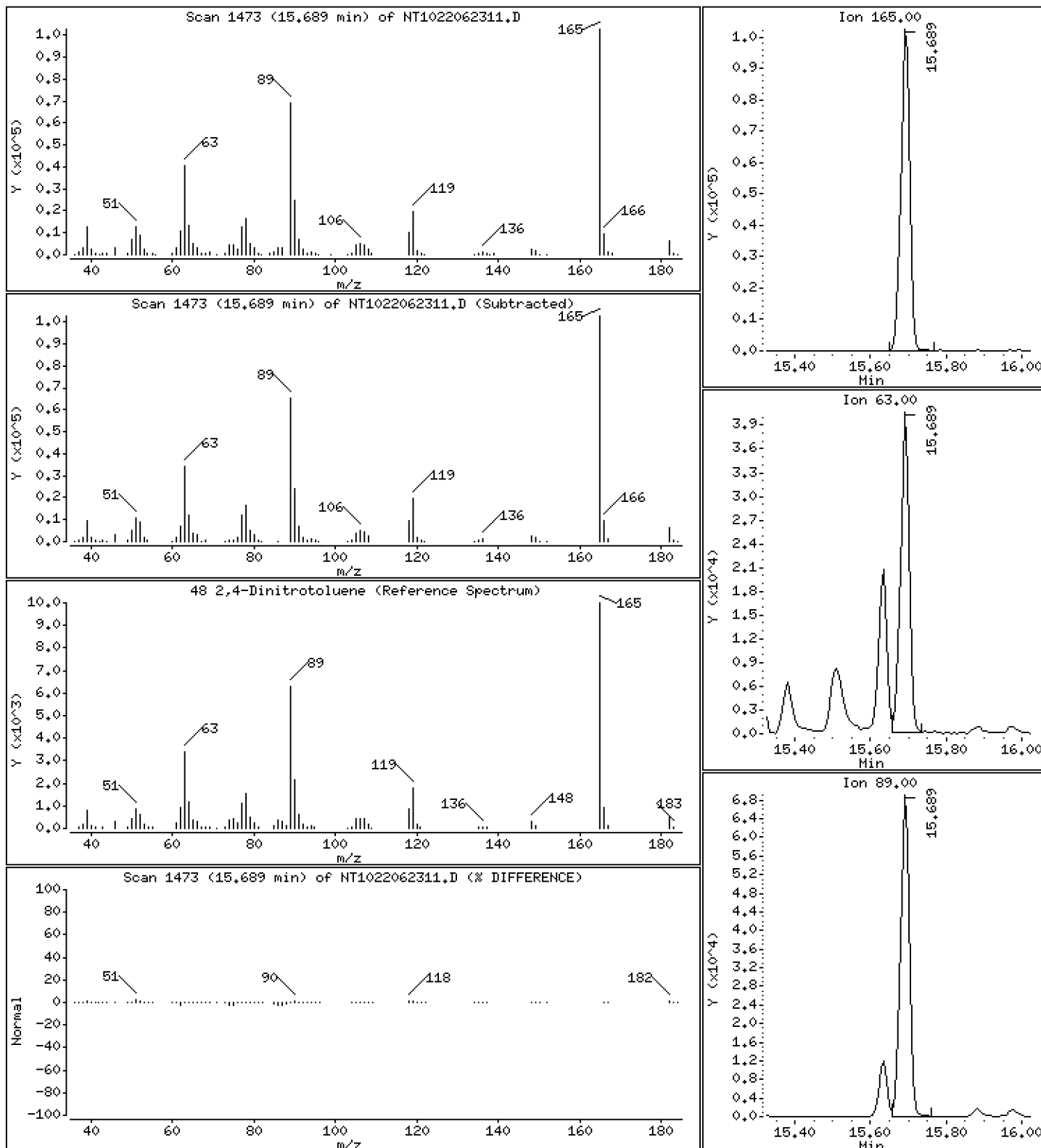
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 5,308 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

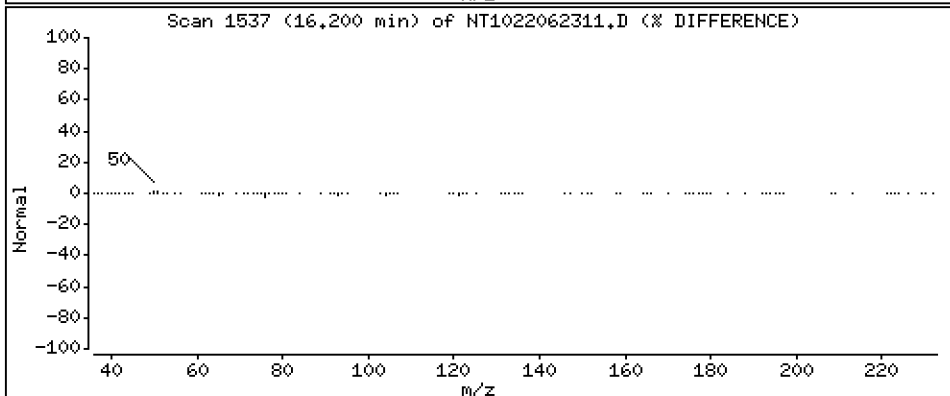
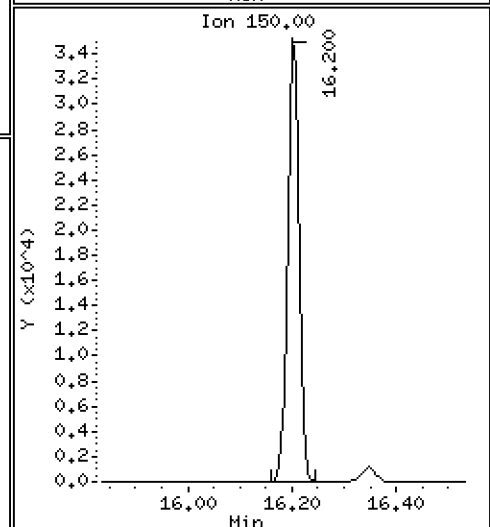
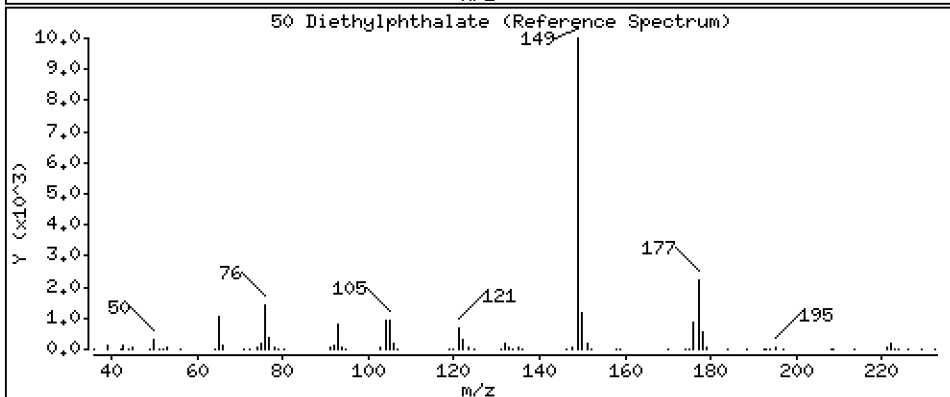
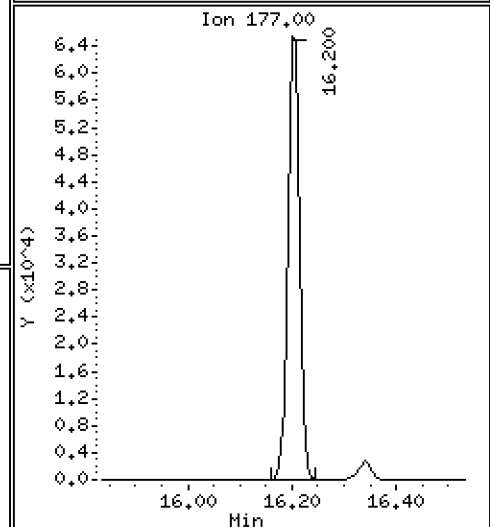
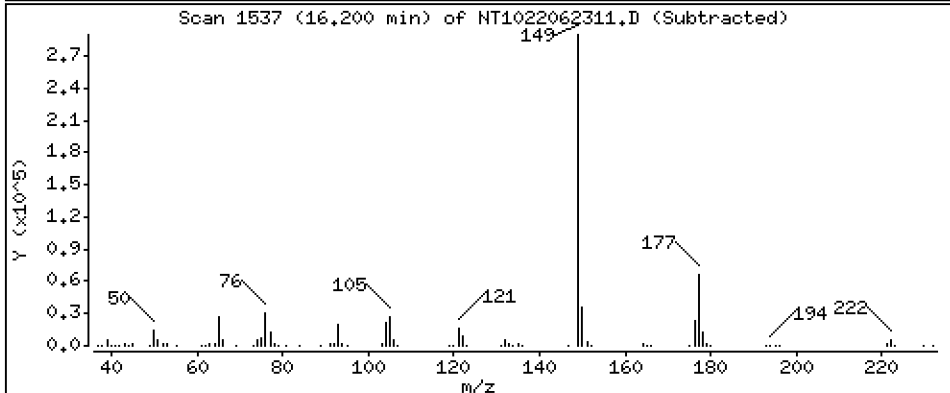
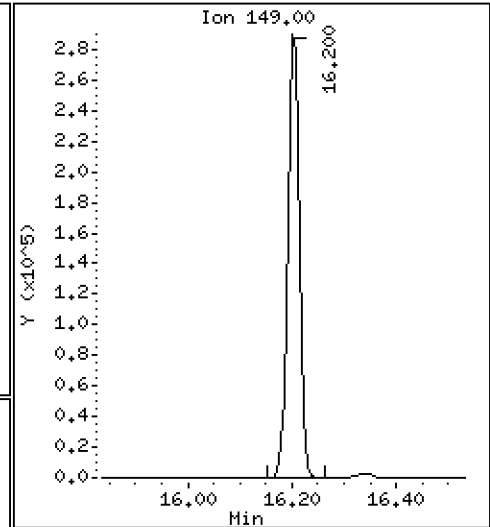
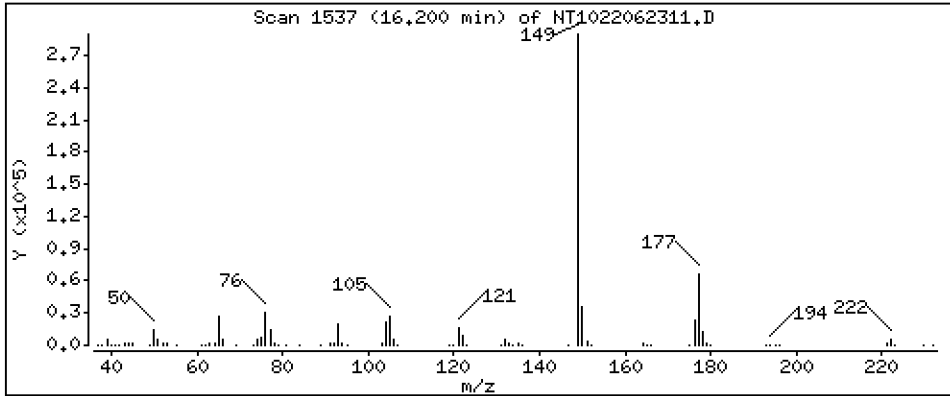
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,372 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

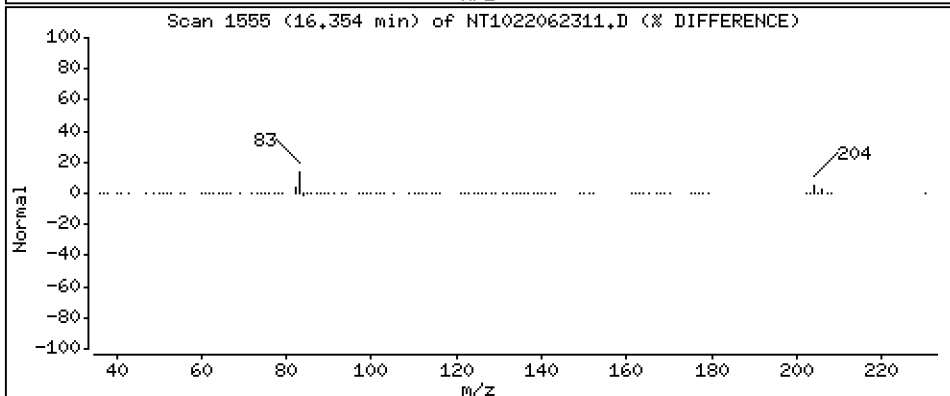
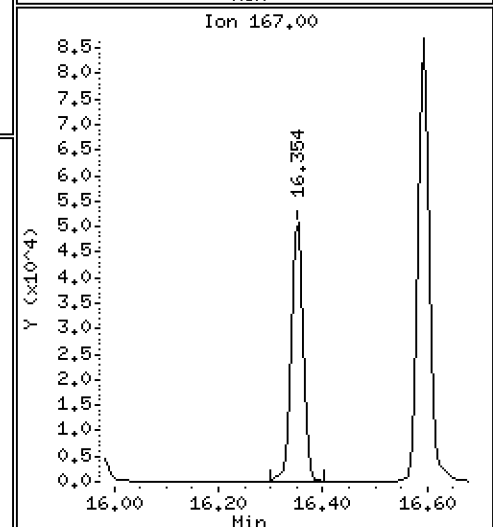
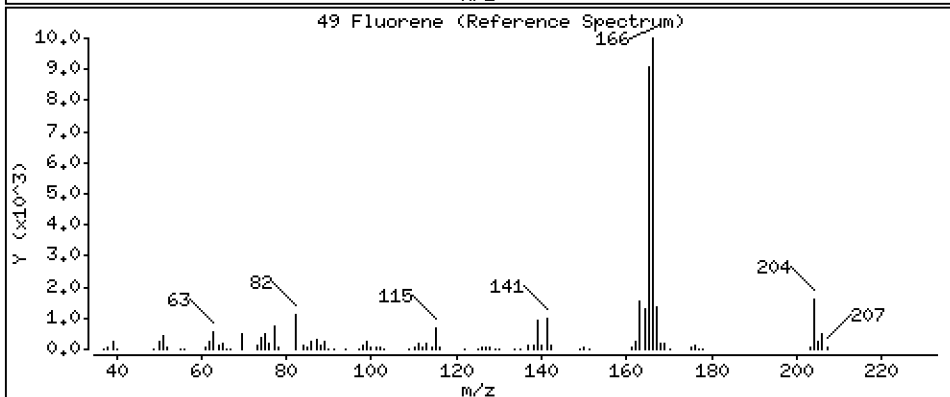
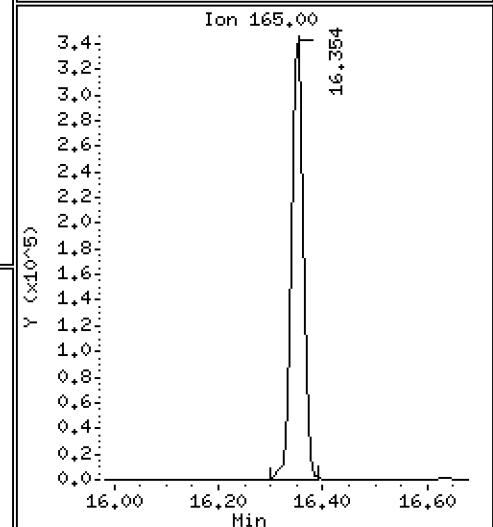
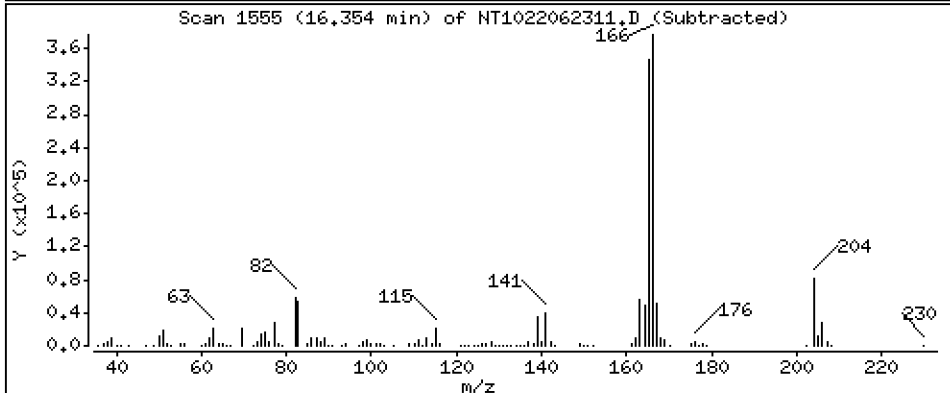
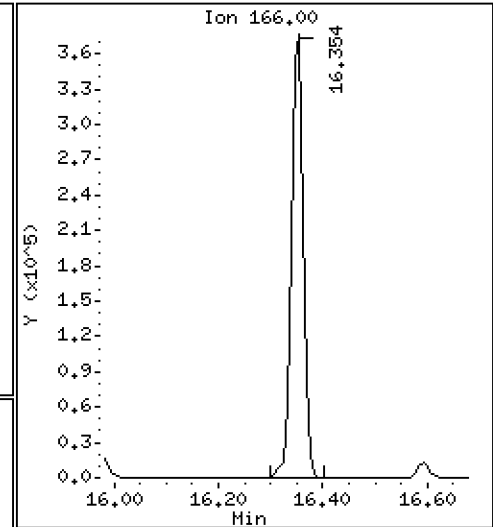
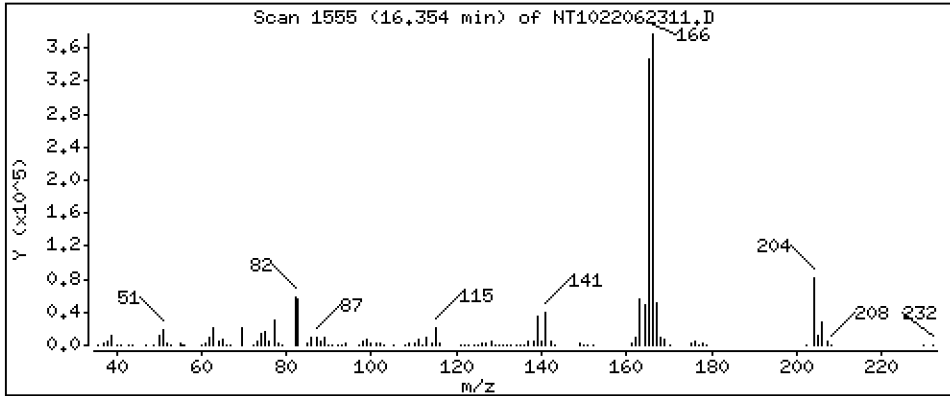
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 4.594 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

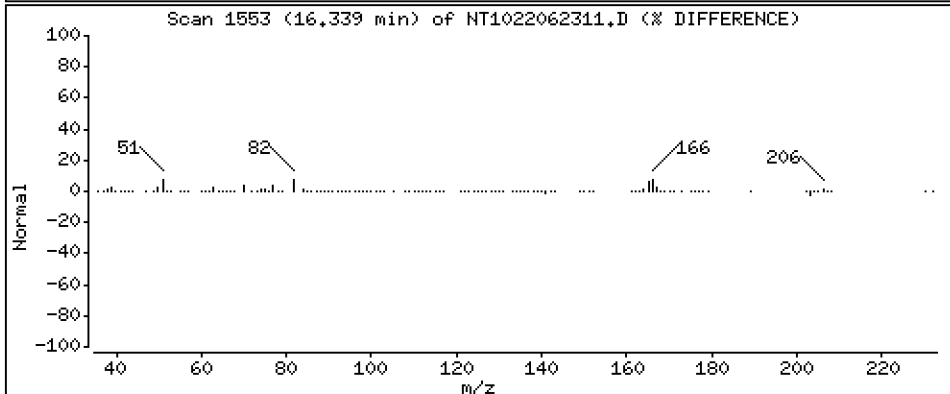
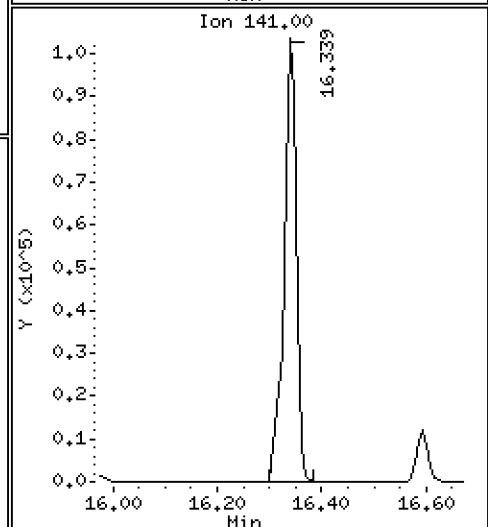
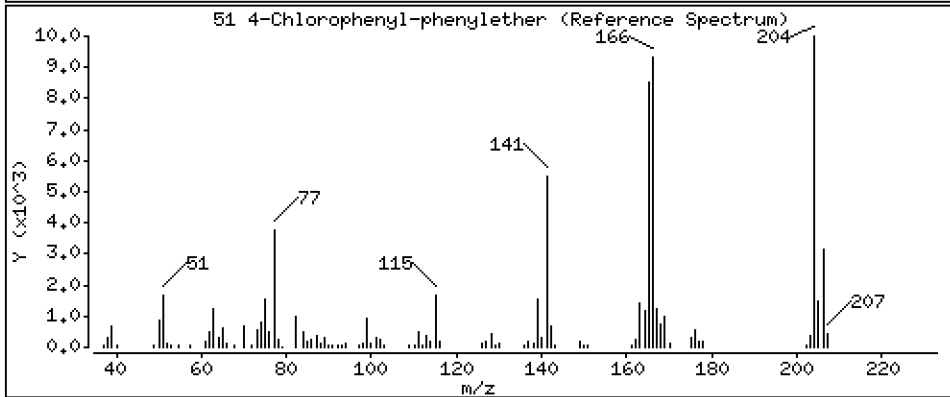
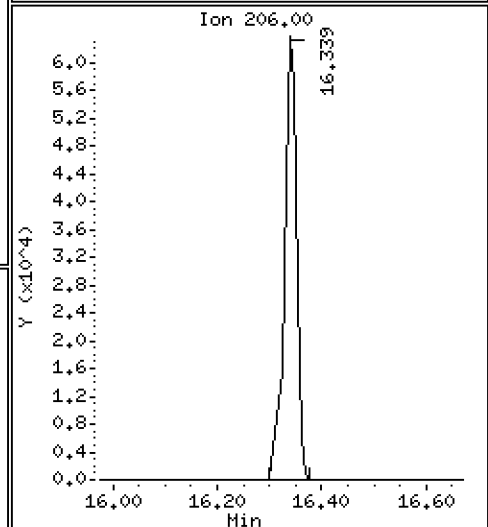
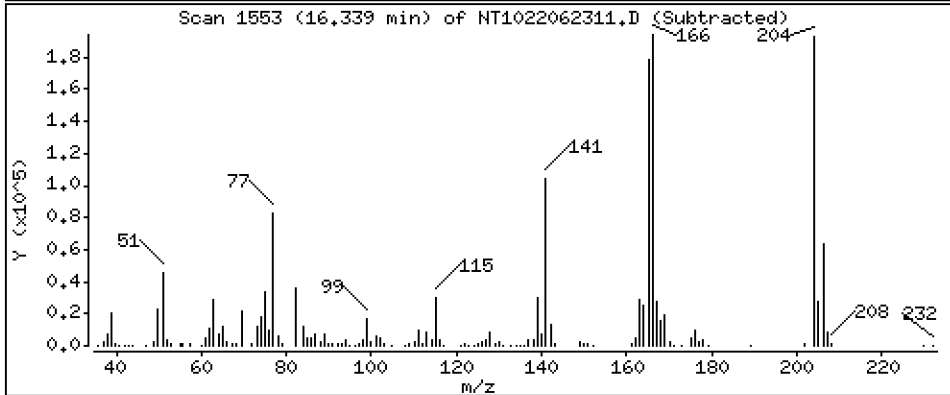
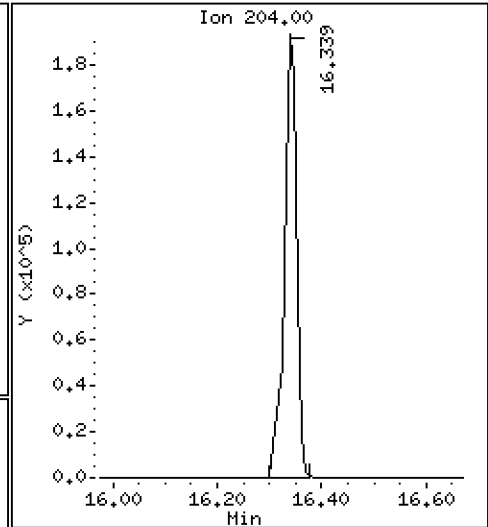
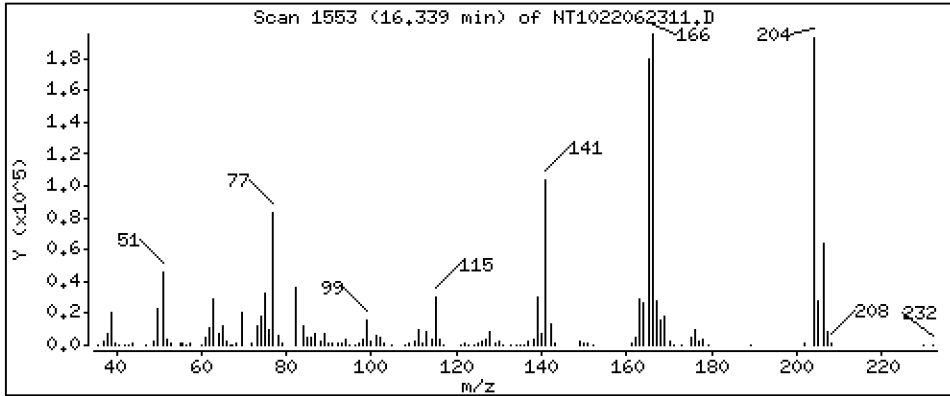
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 5,407 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

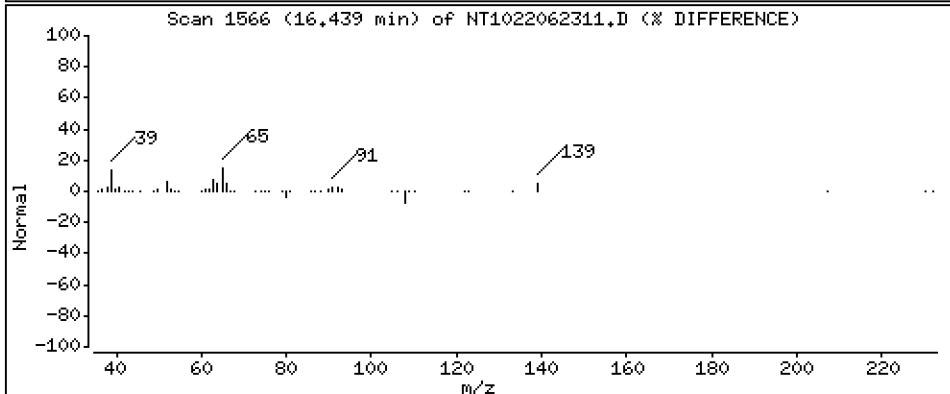
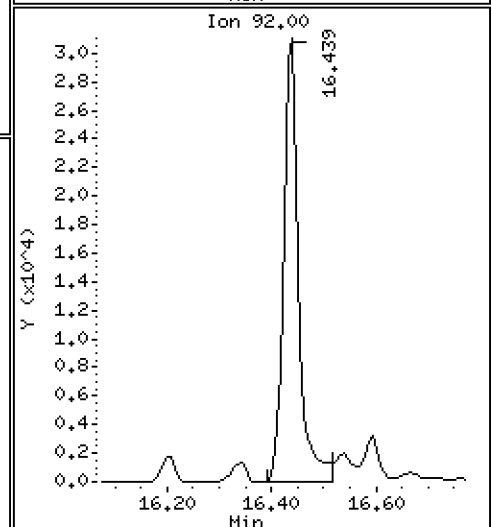
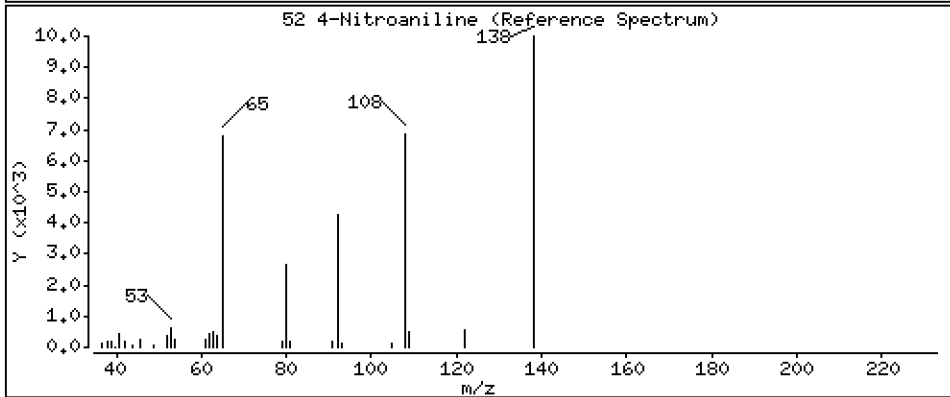
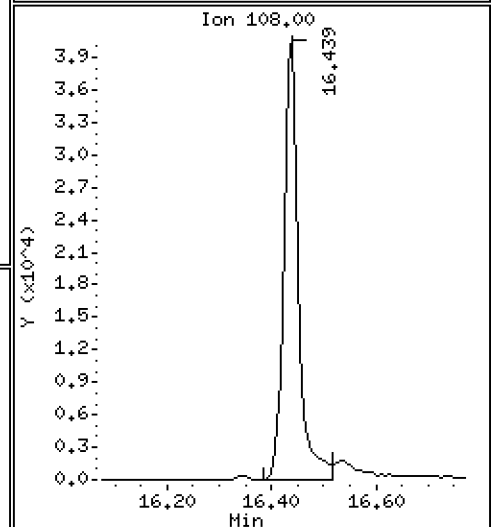
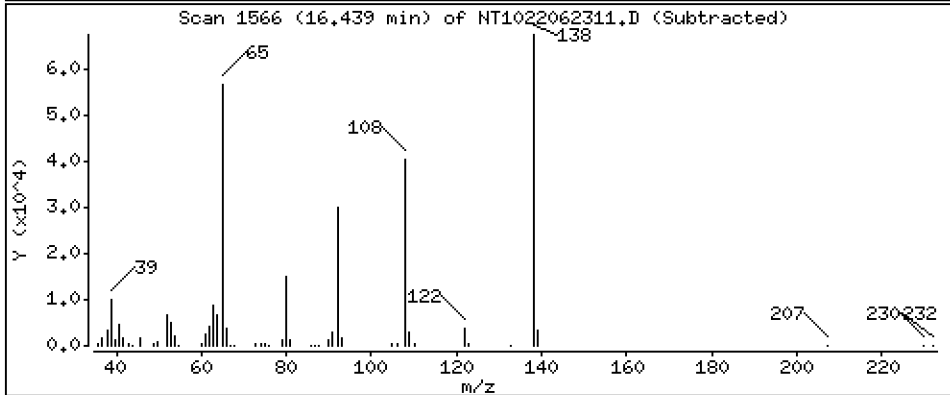
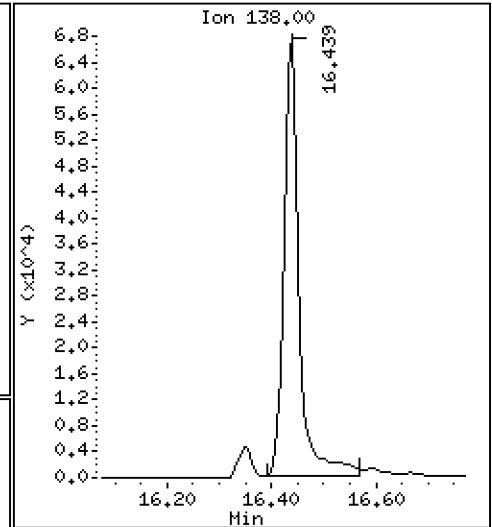
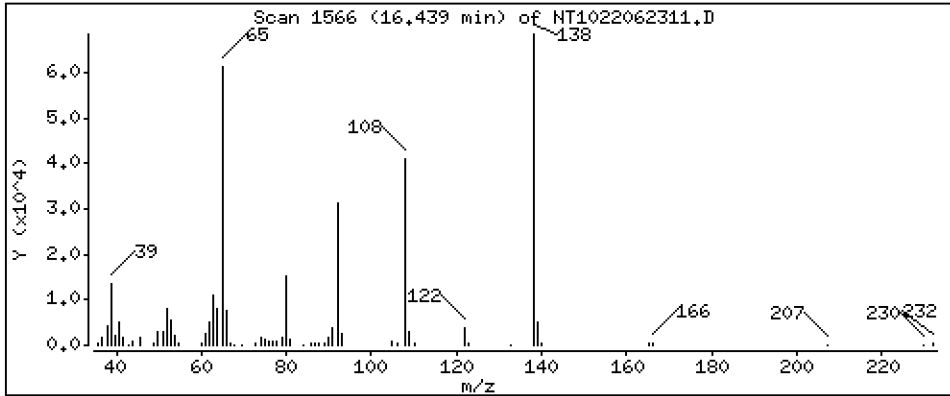
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 5,094 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

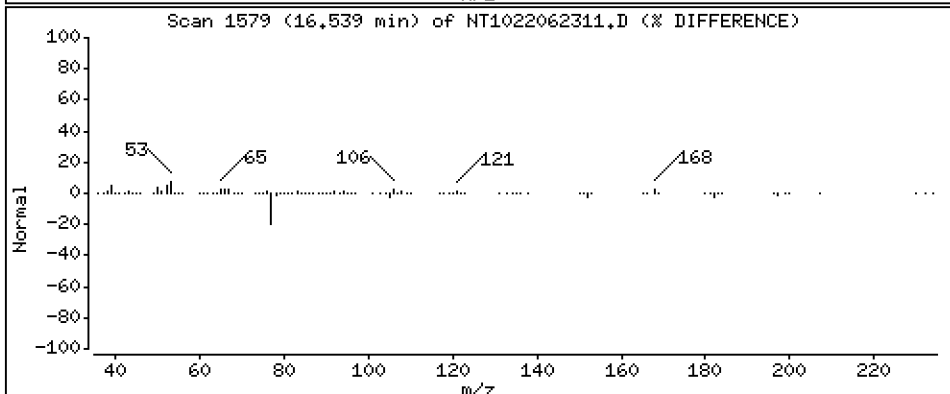
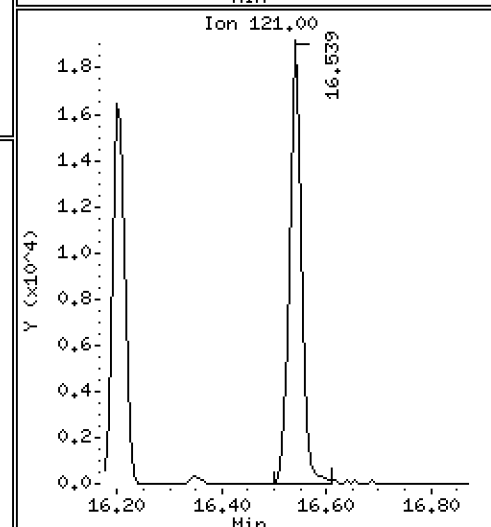
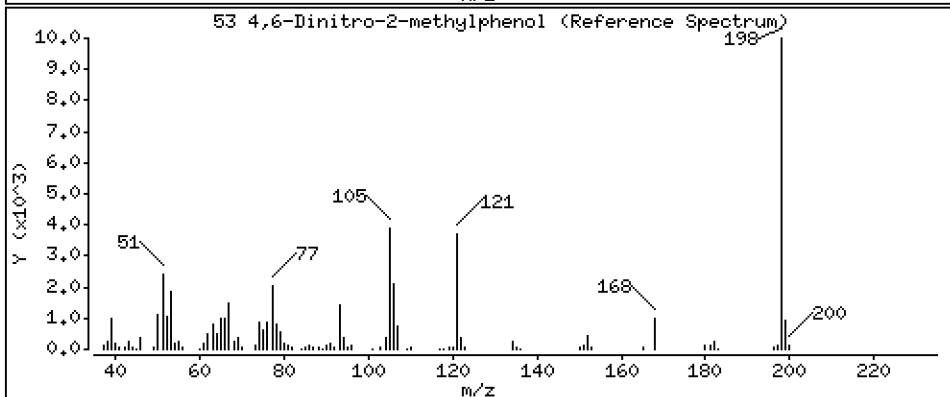
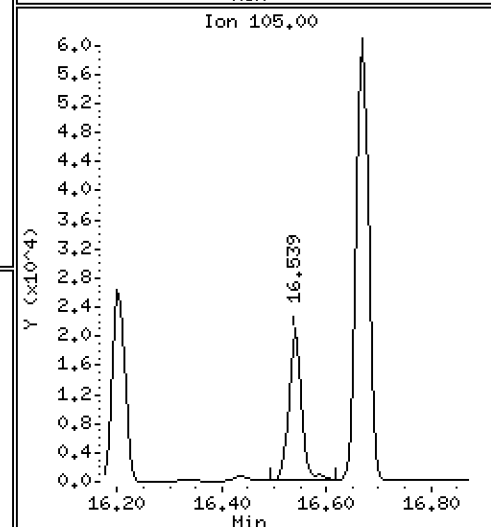
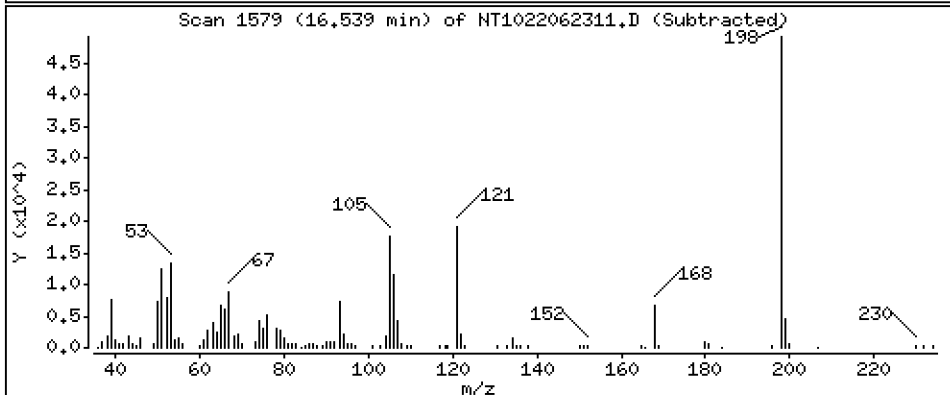
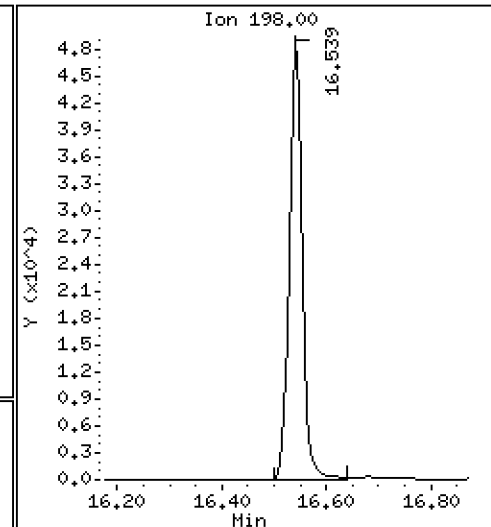
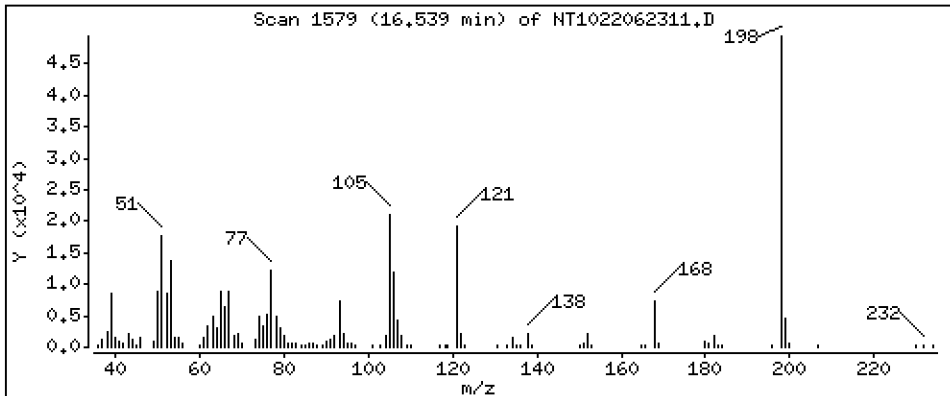
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 4.314 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

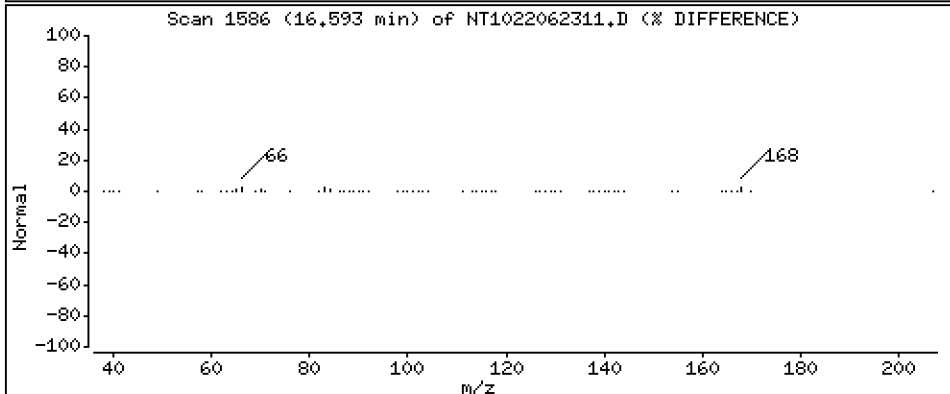
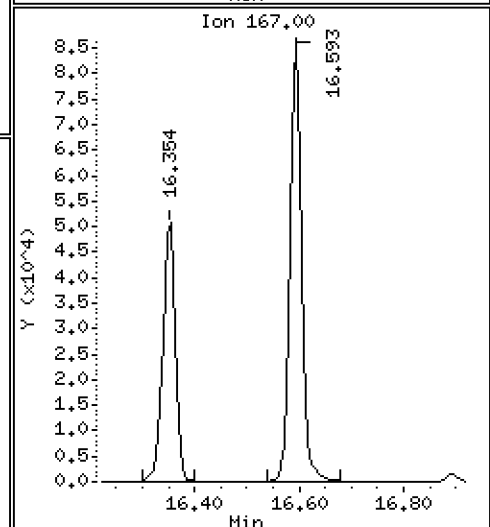
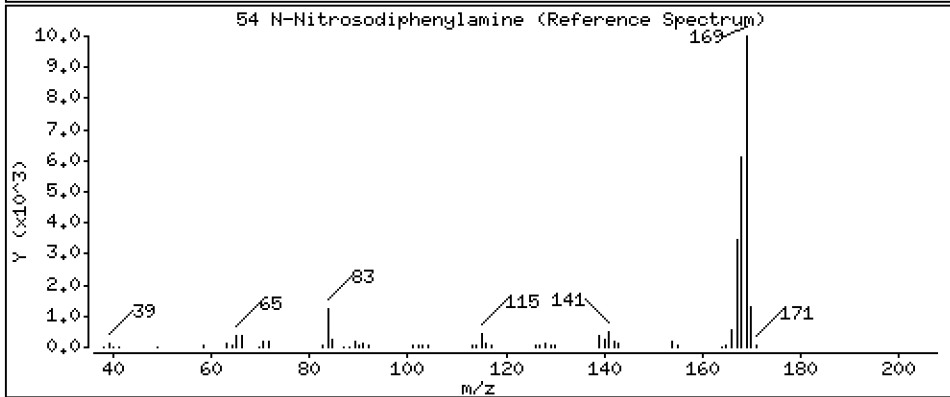
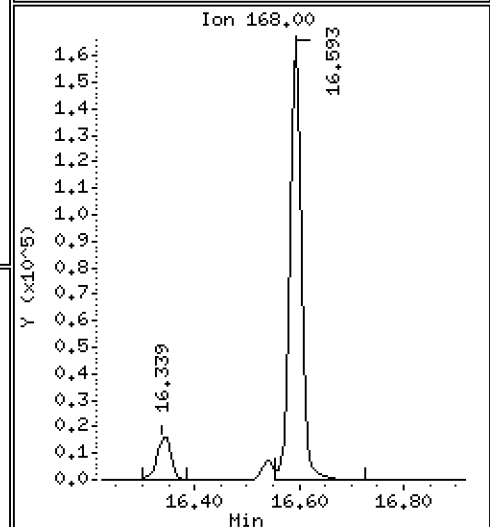
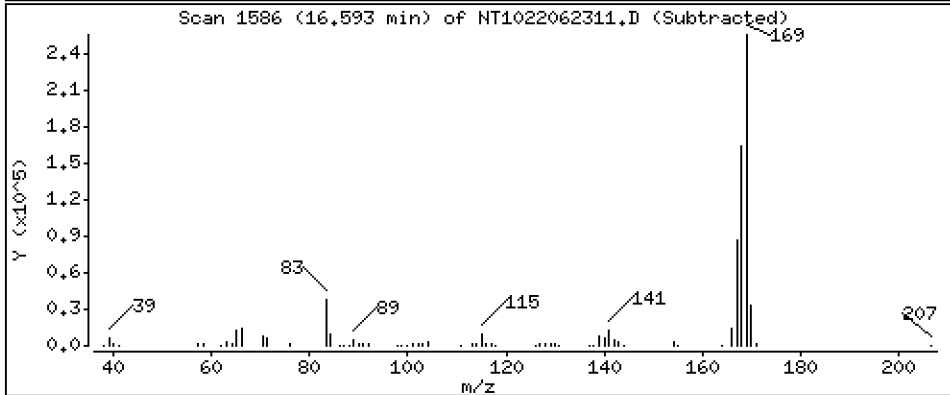
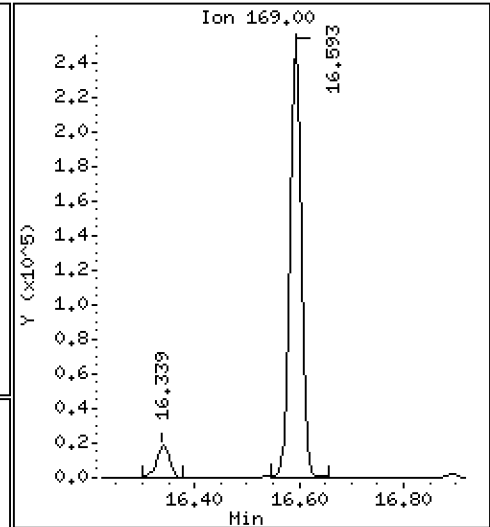
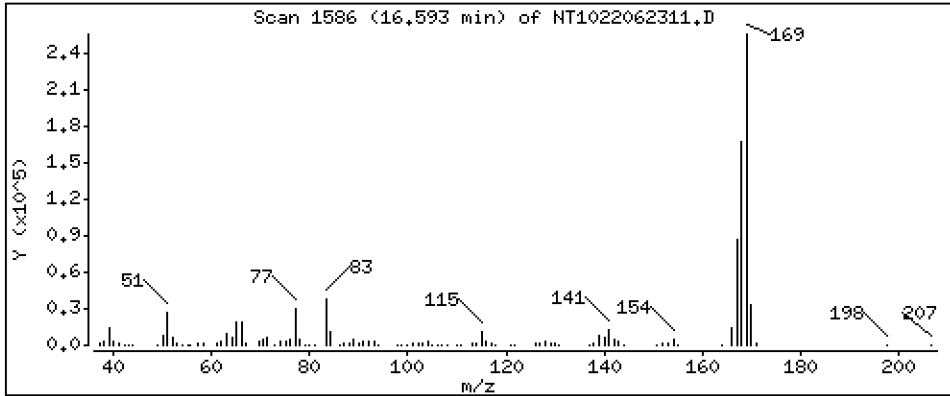
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,983 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

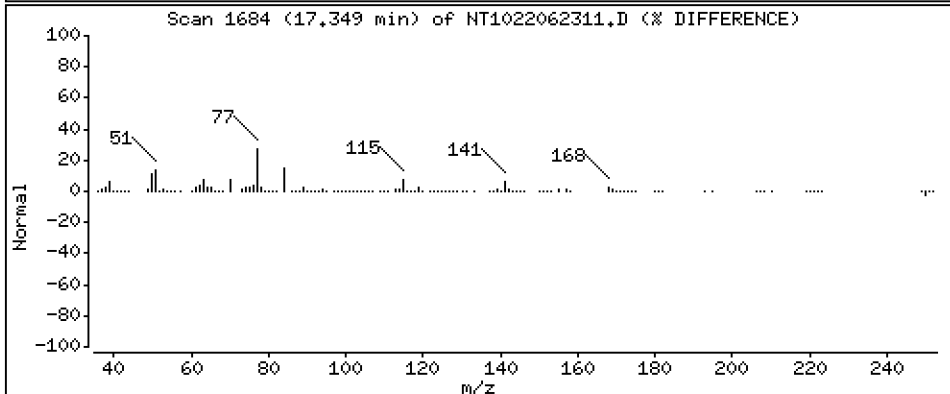
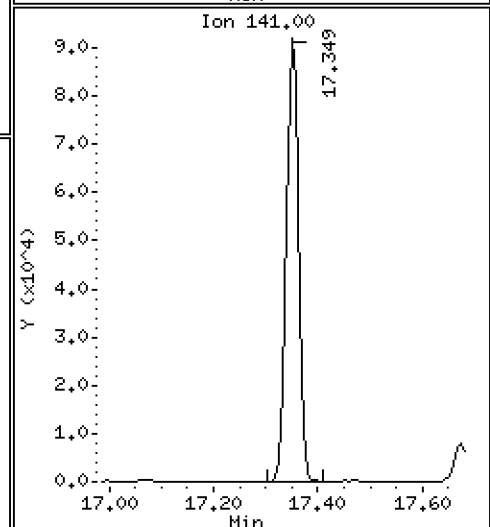
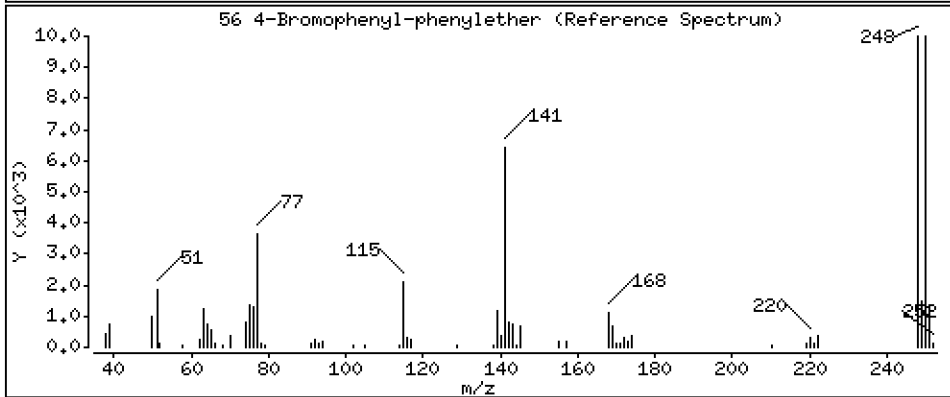
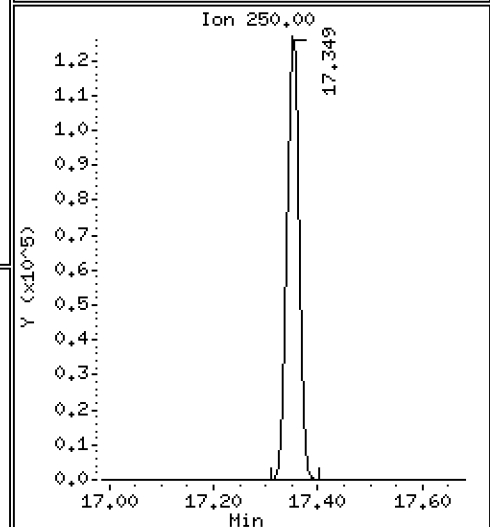
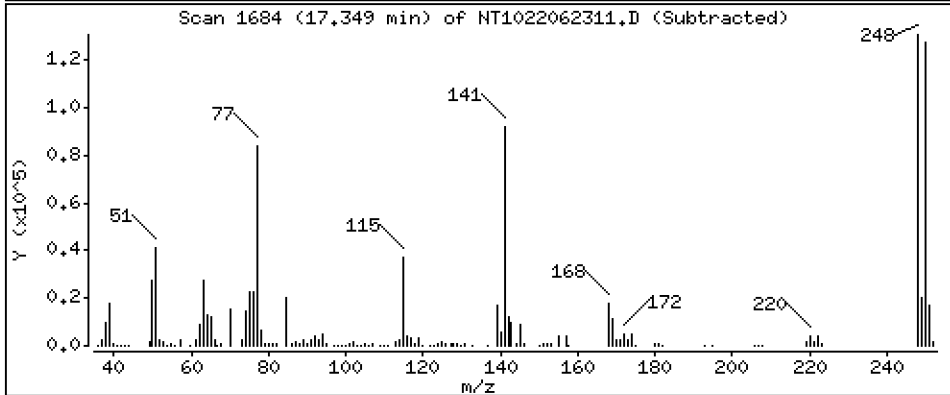
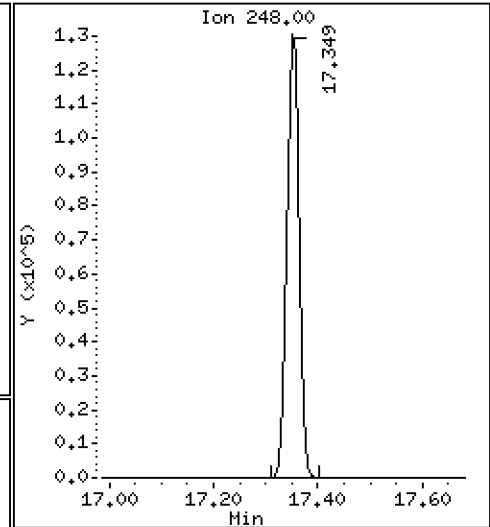
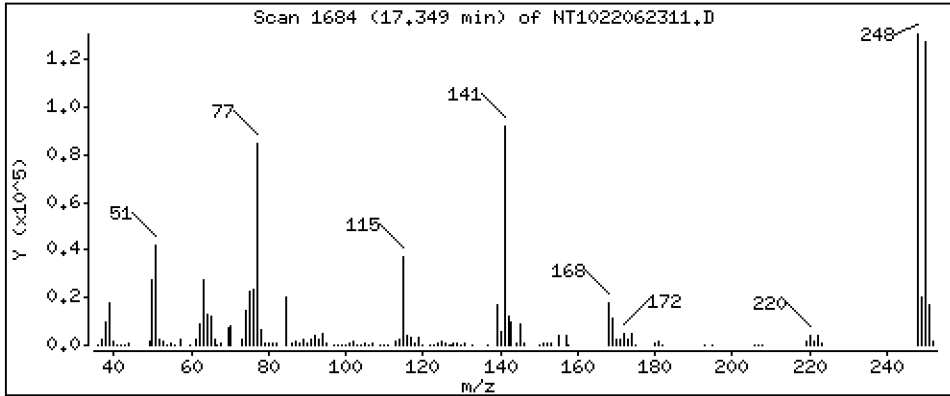
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,456 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

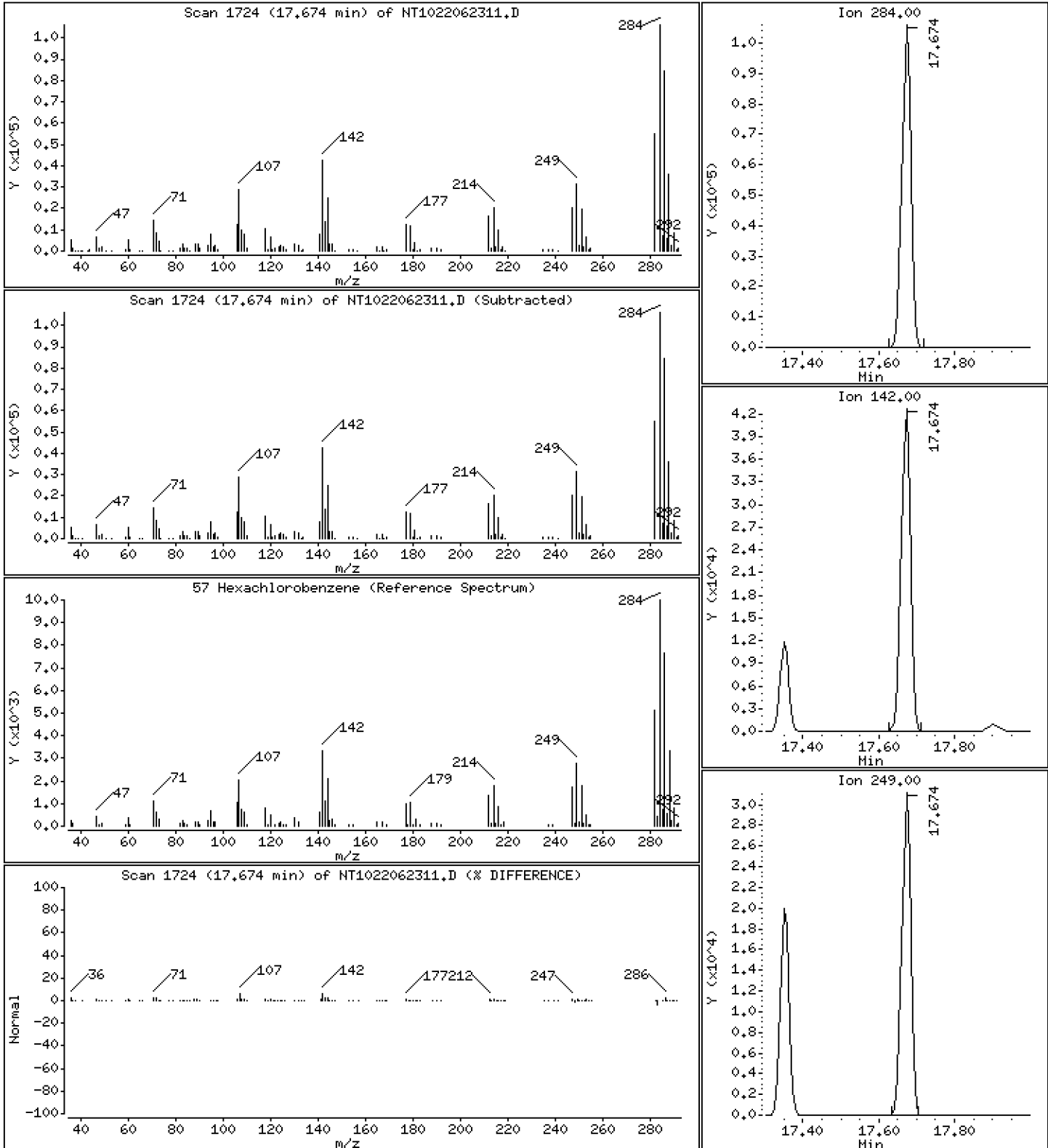
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 5,114 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

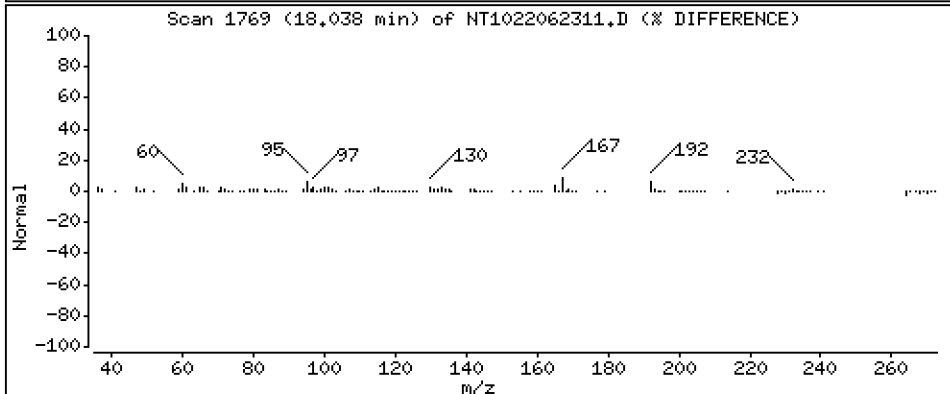
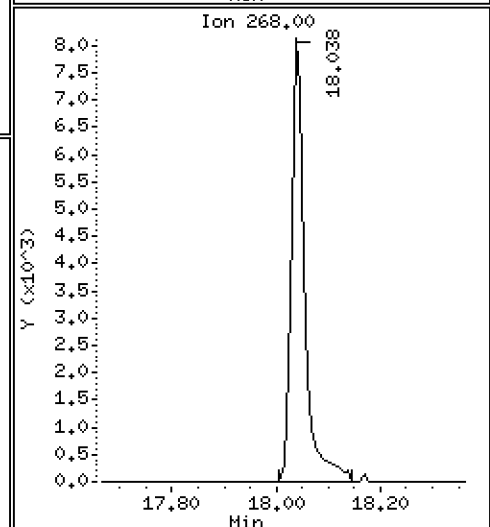
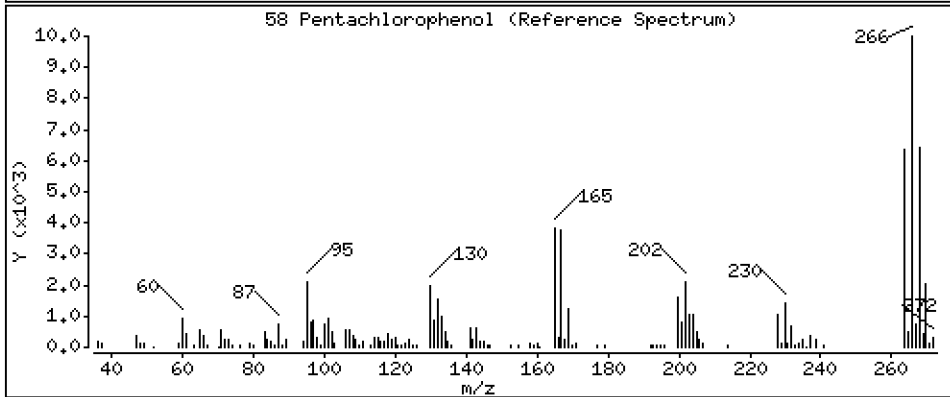
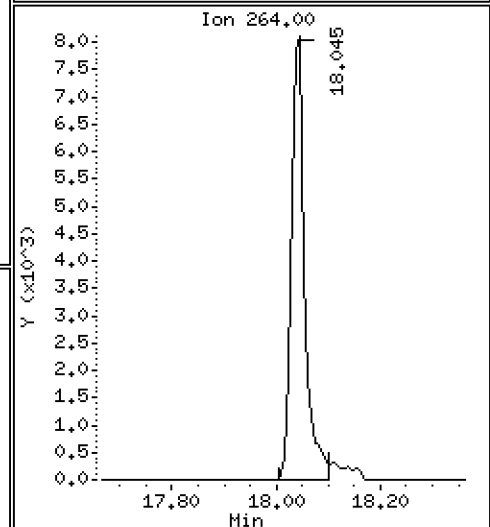
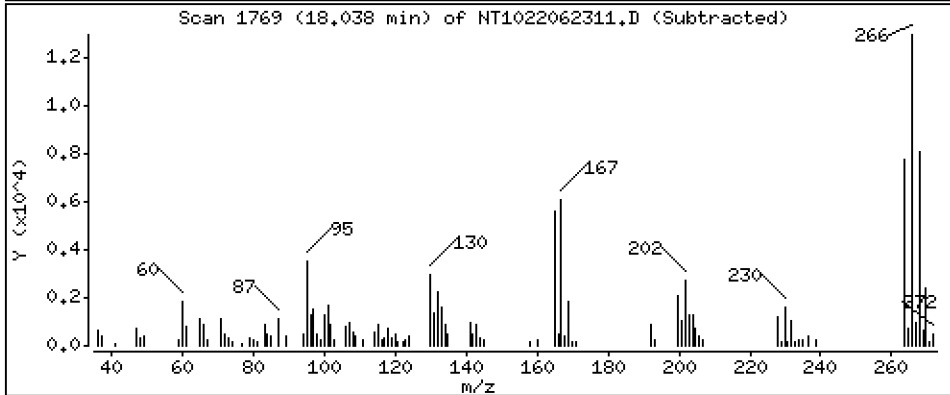
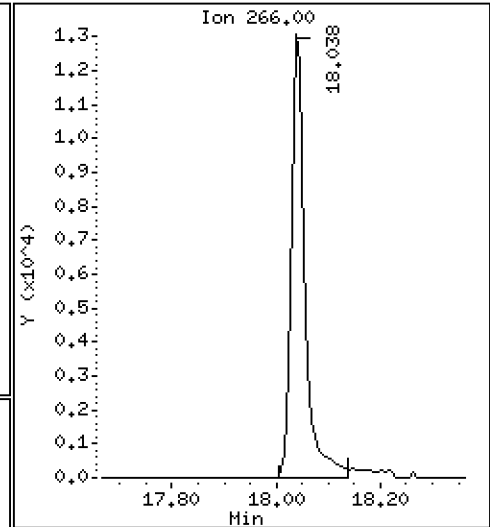
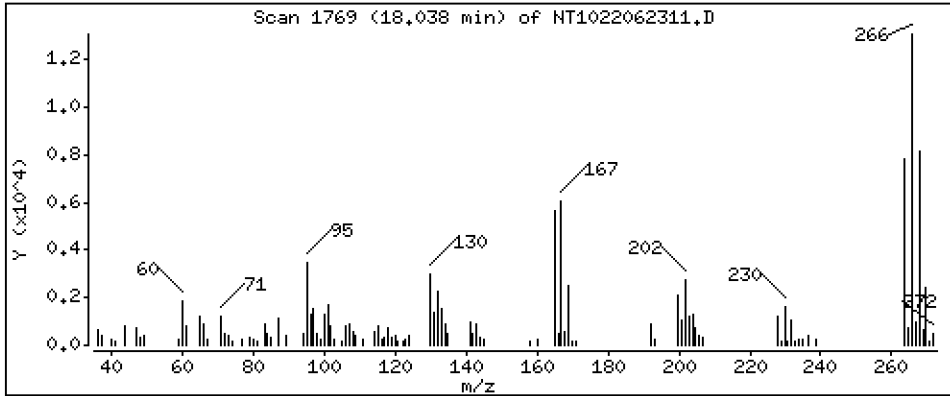
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,238 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

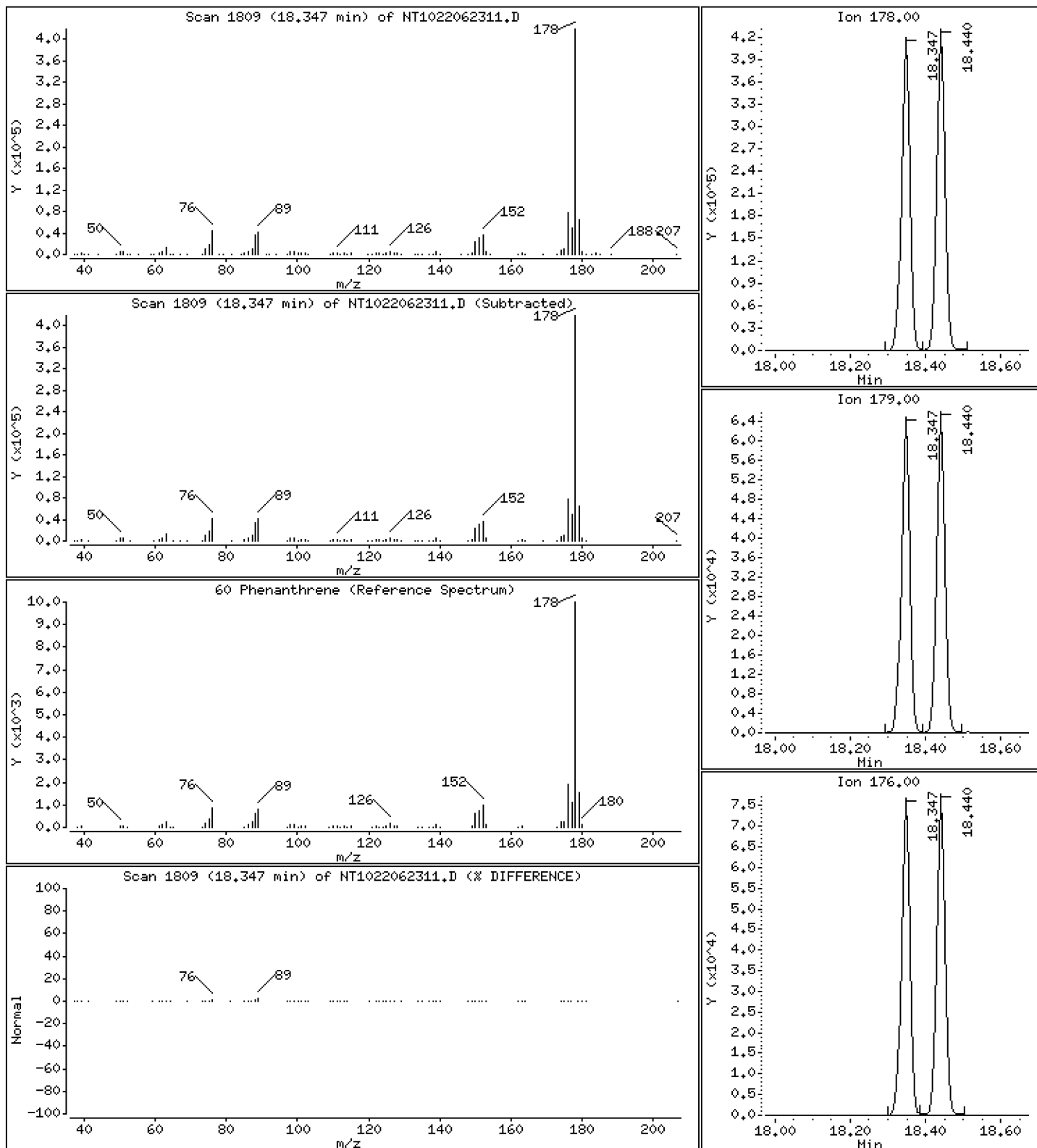
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,893 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

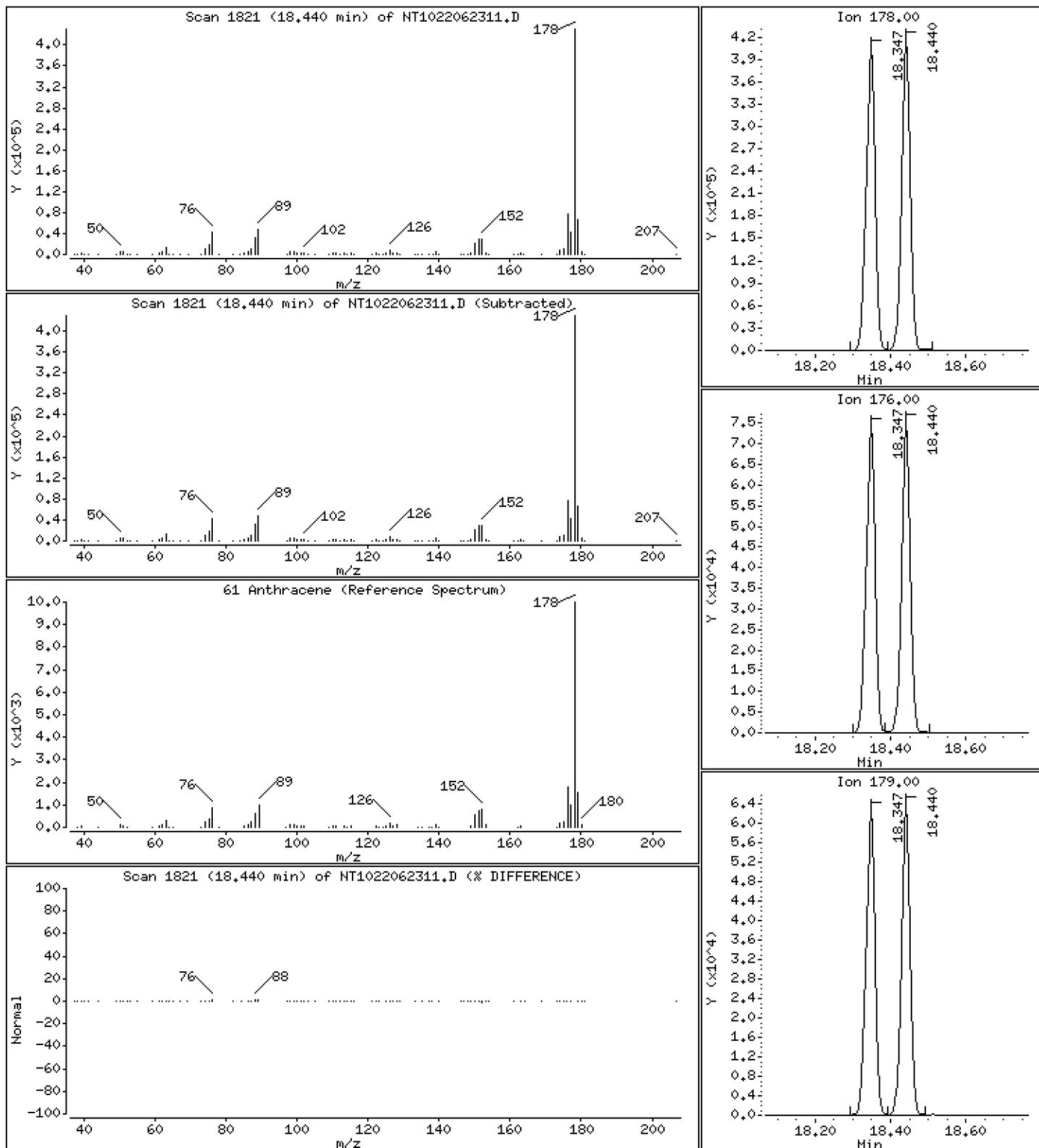
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,828 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

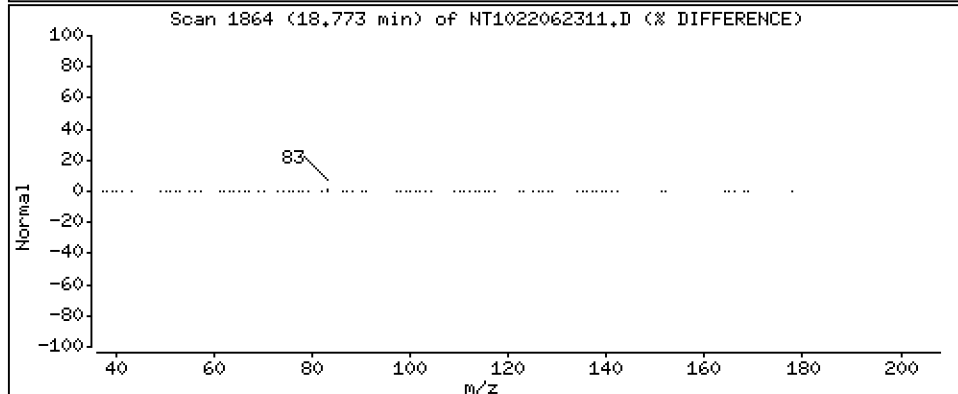
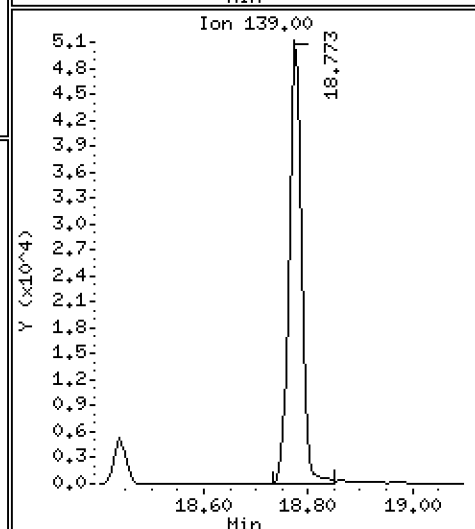
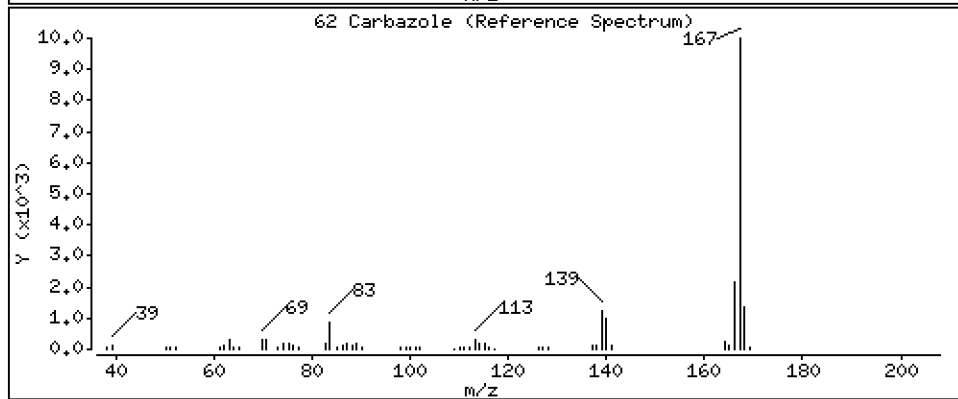
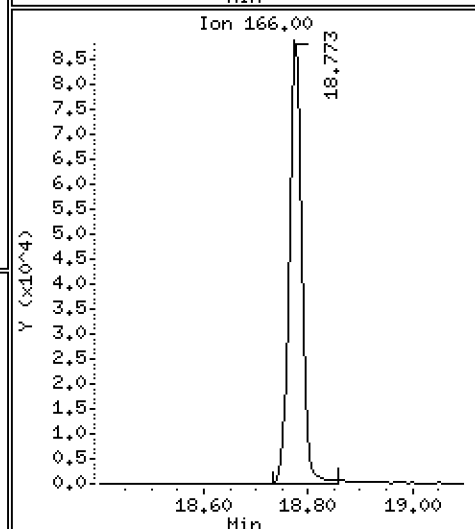
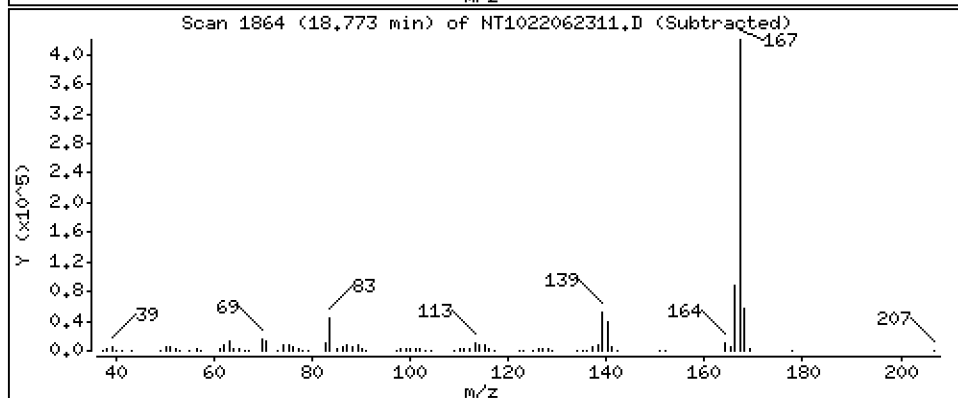
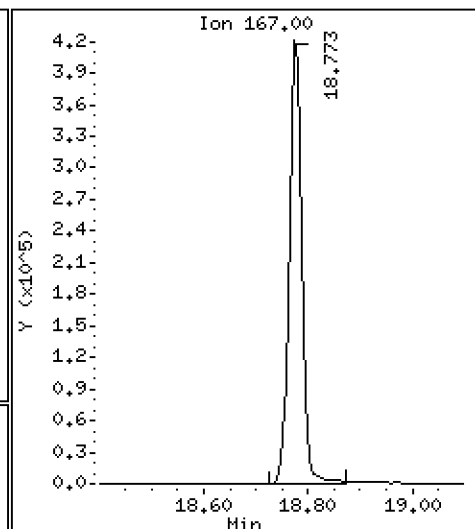
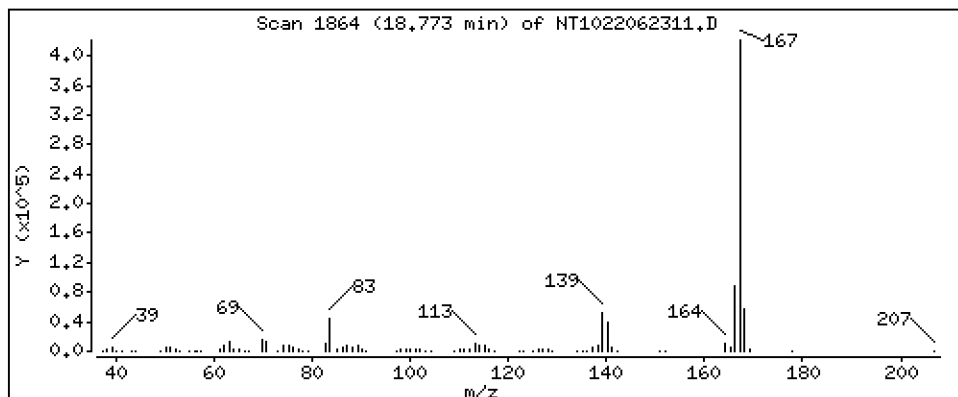
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,567 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

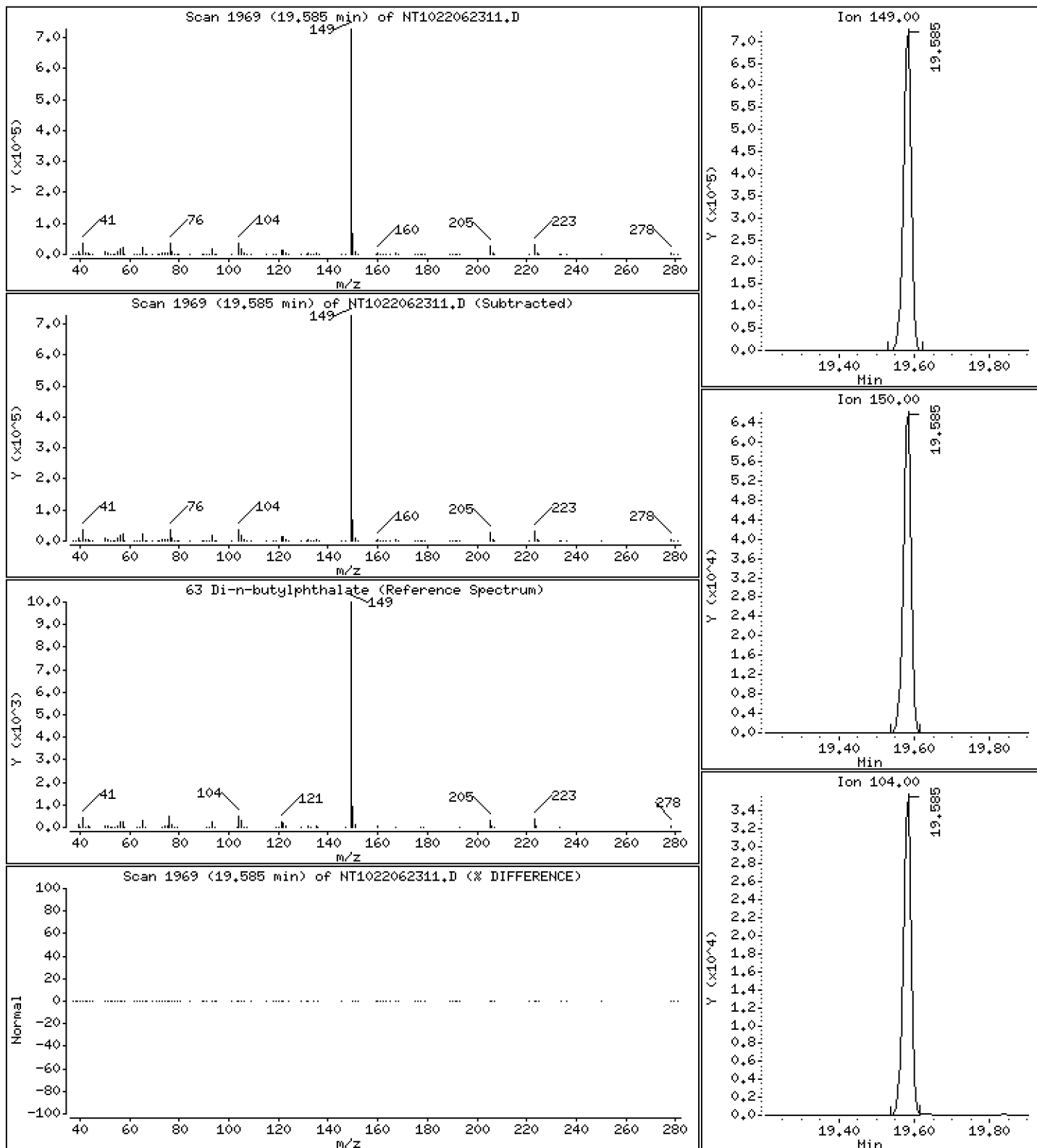
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 5.328 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

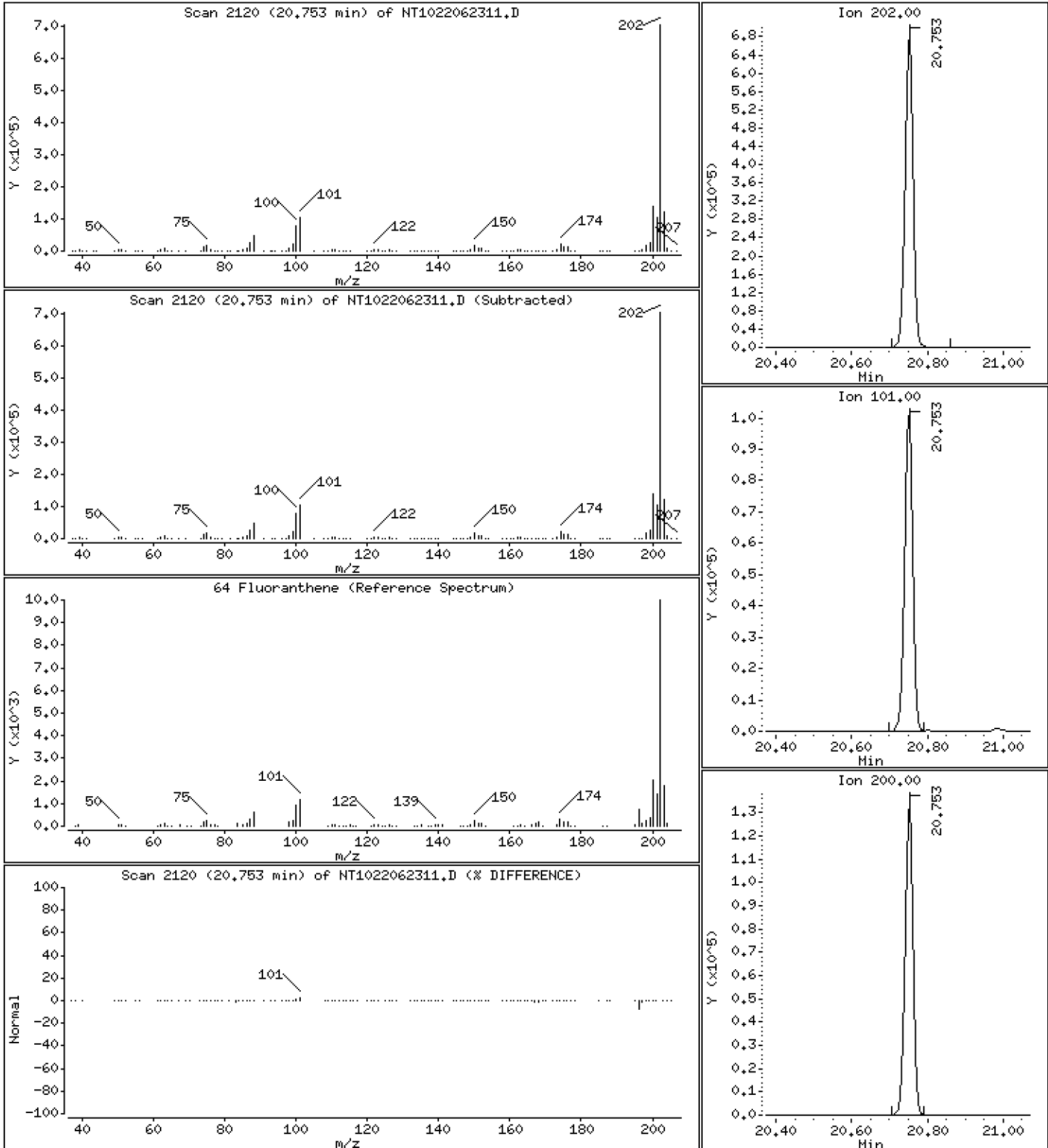
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,192 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

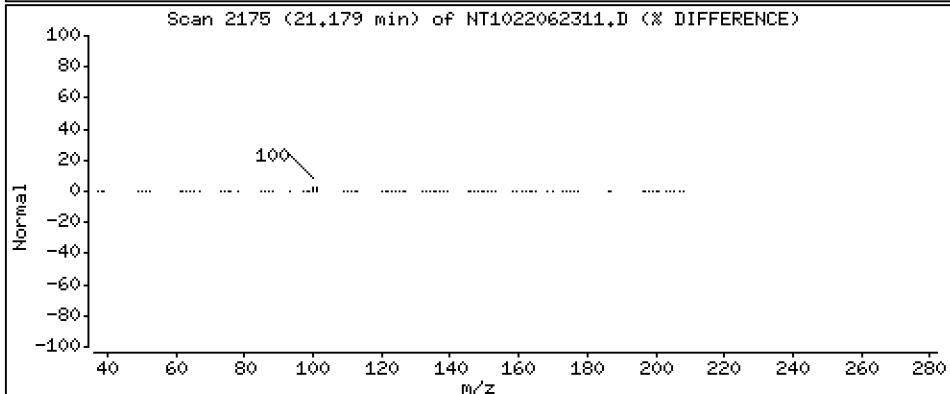
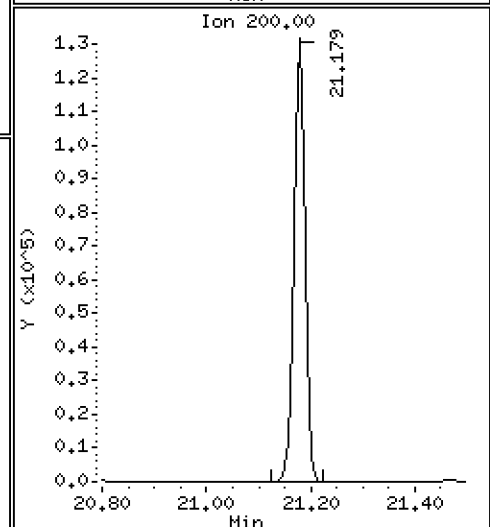
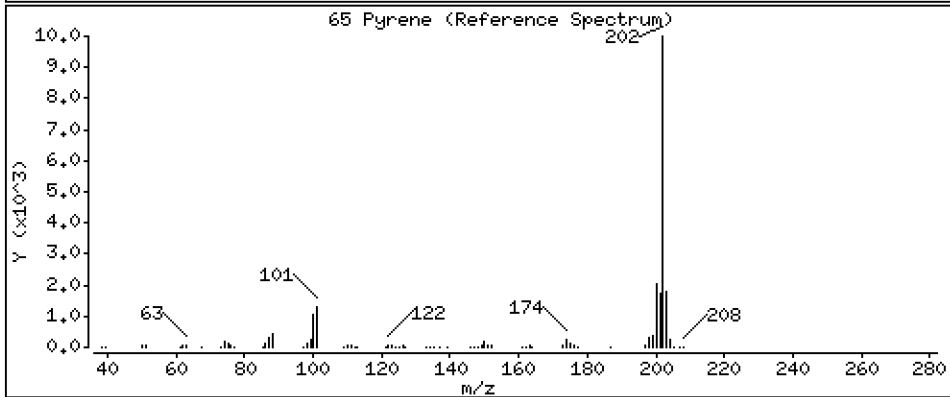
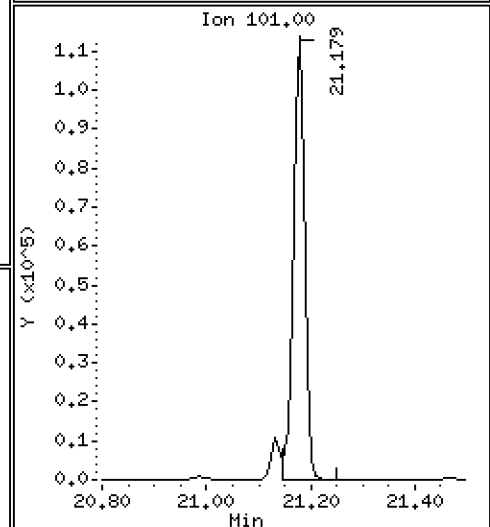
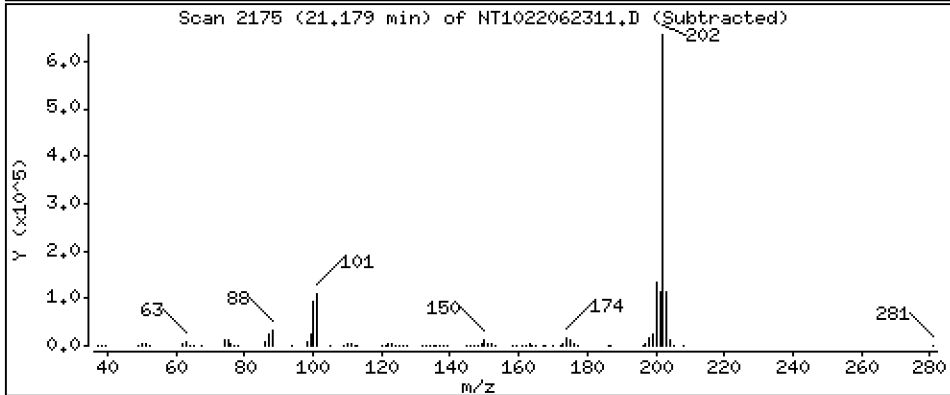
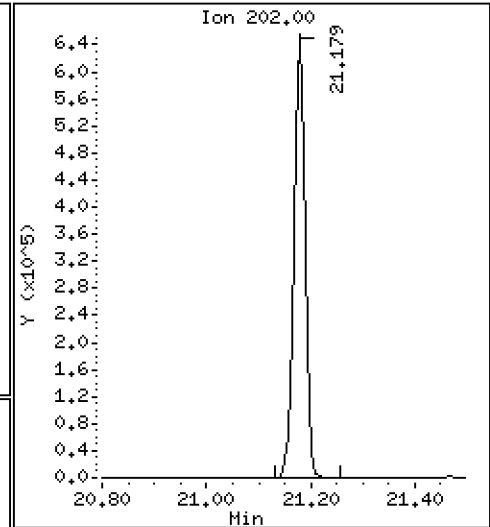
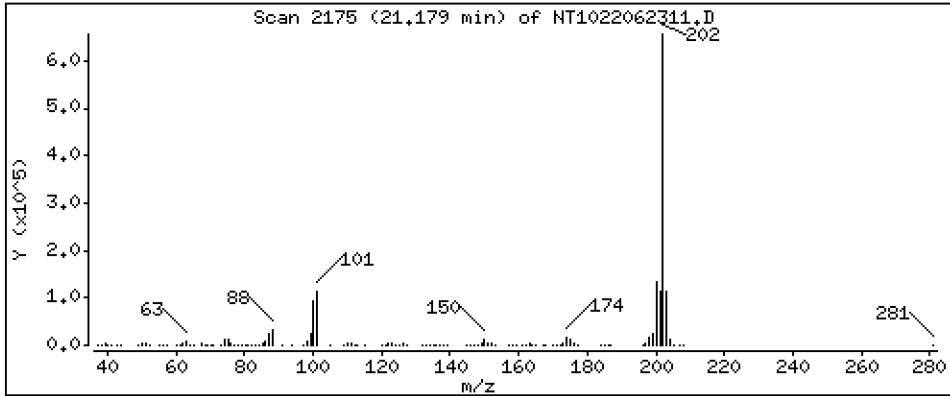
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,572 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

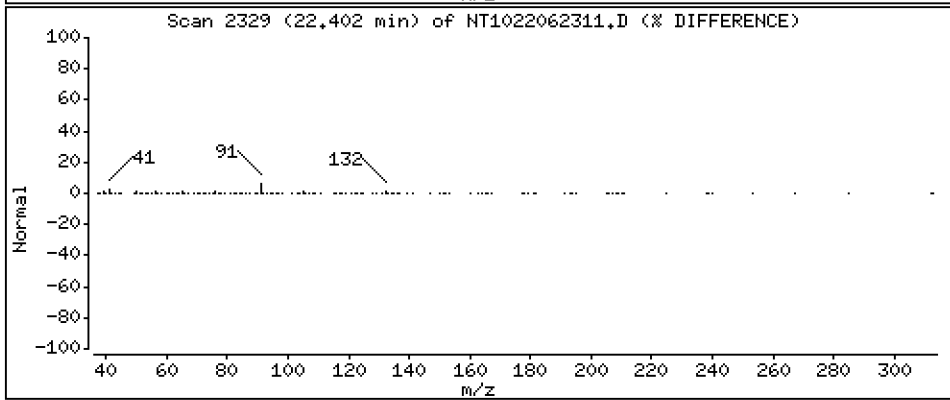
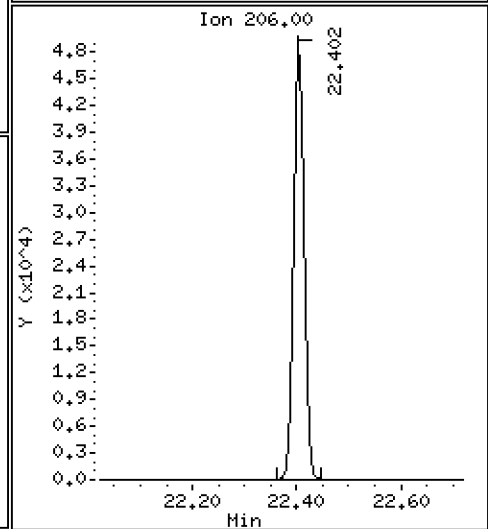
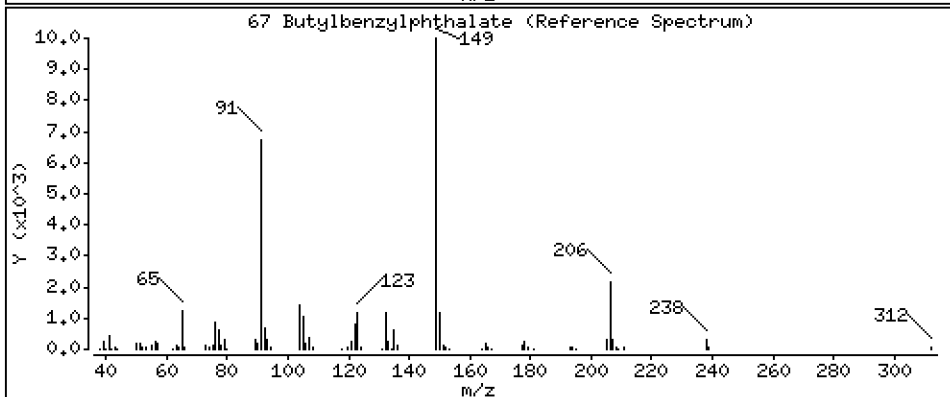
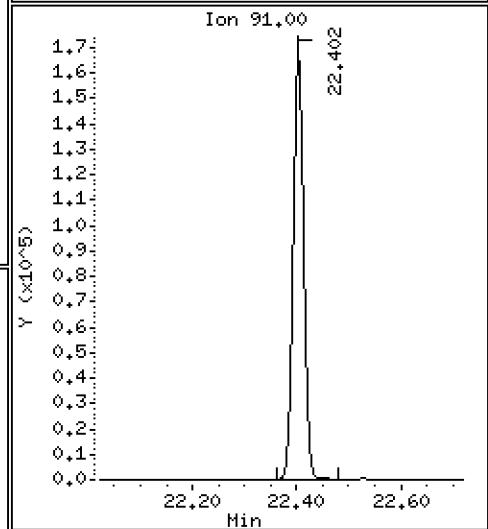
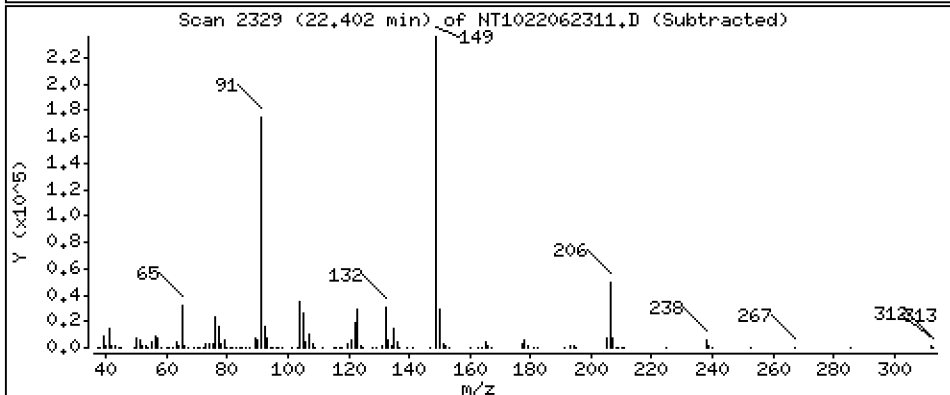
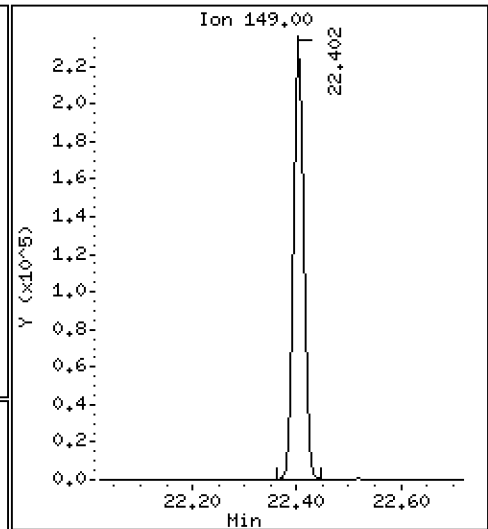
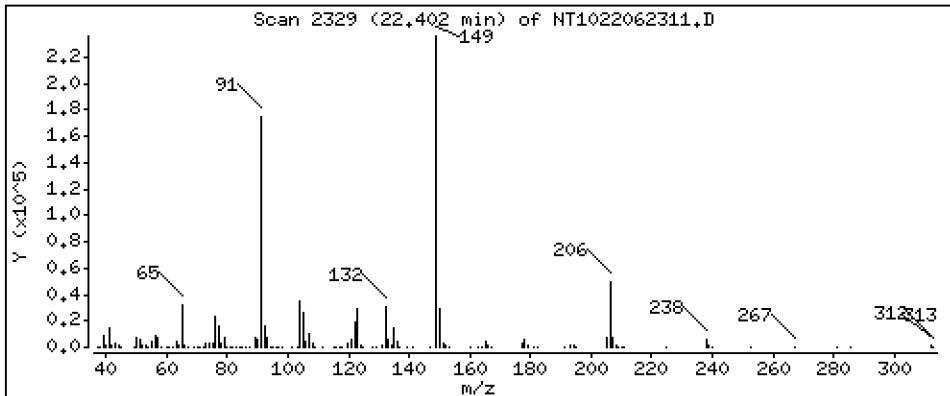
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,860 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

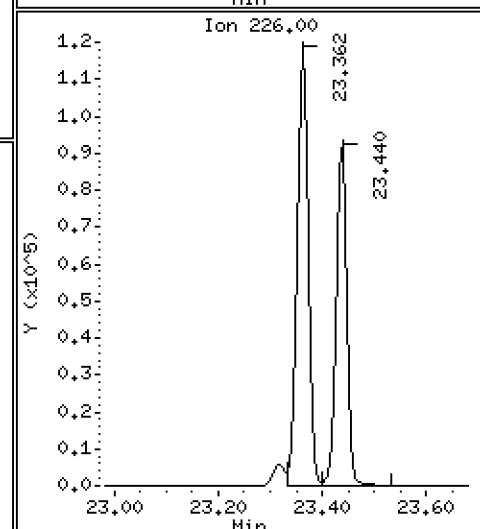
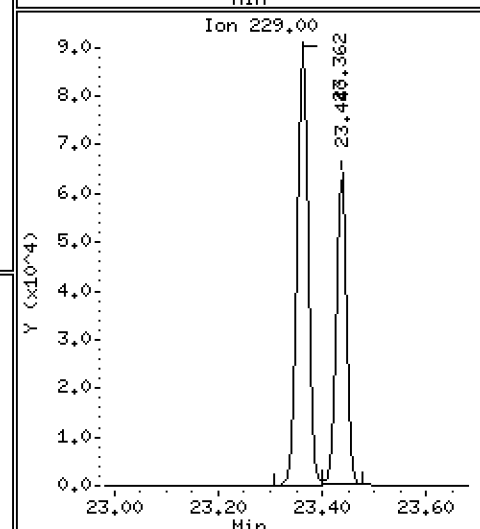
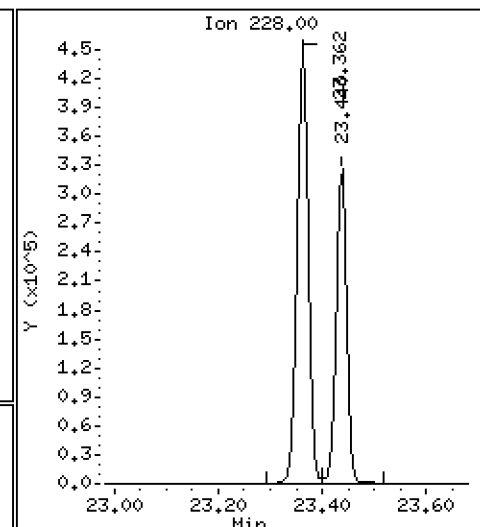
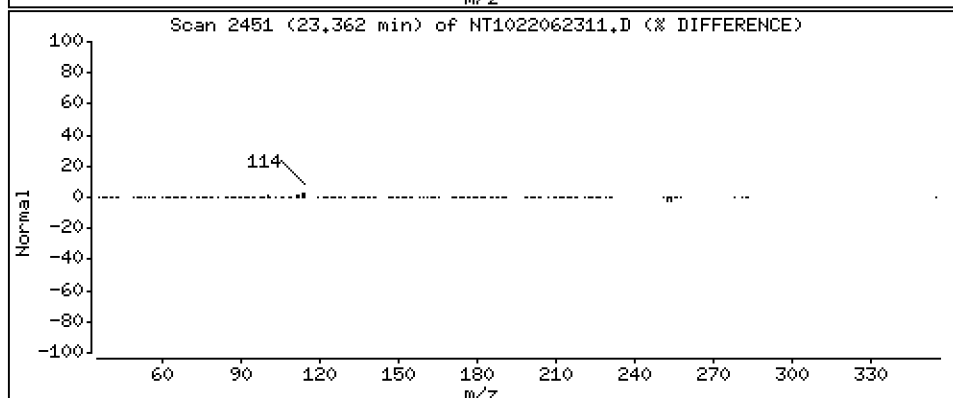
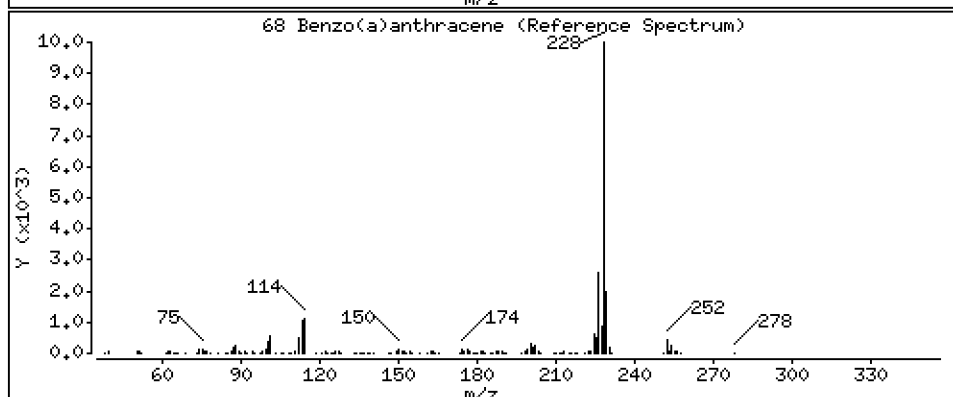
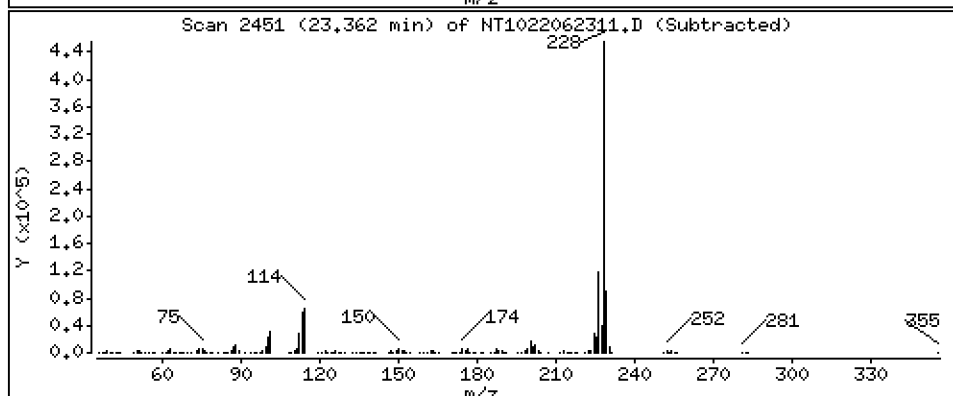
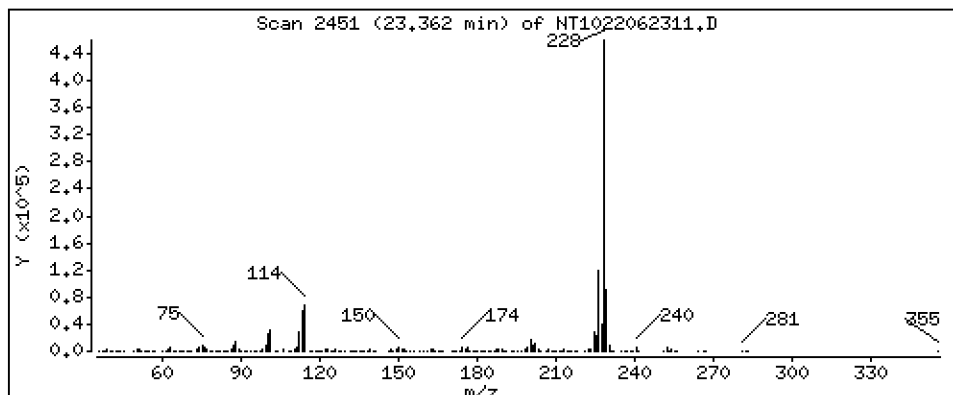
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,852 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

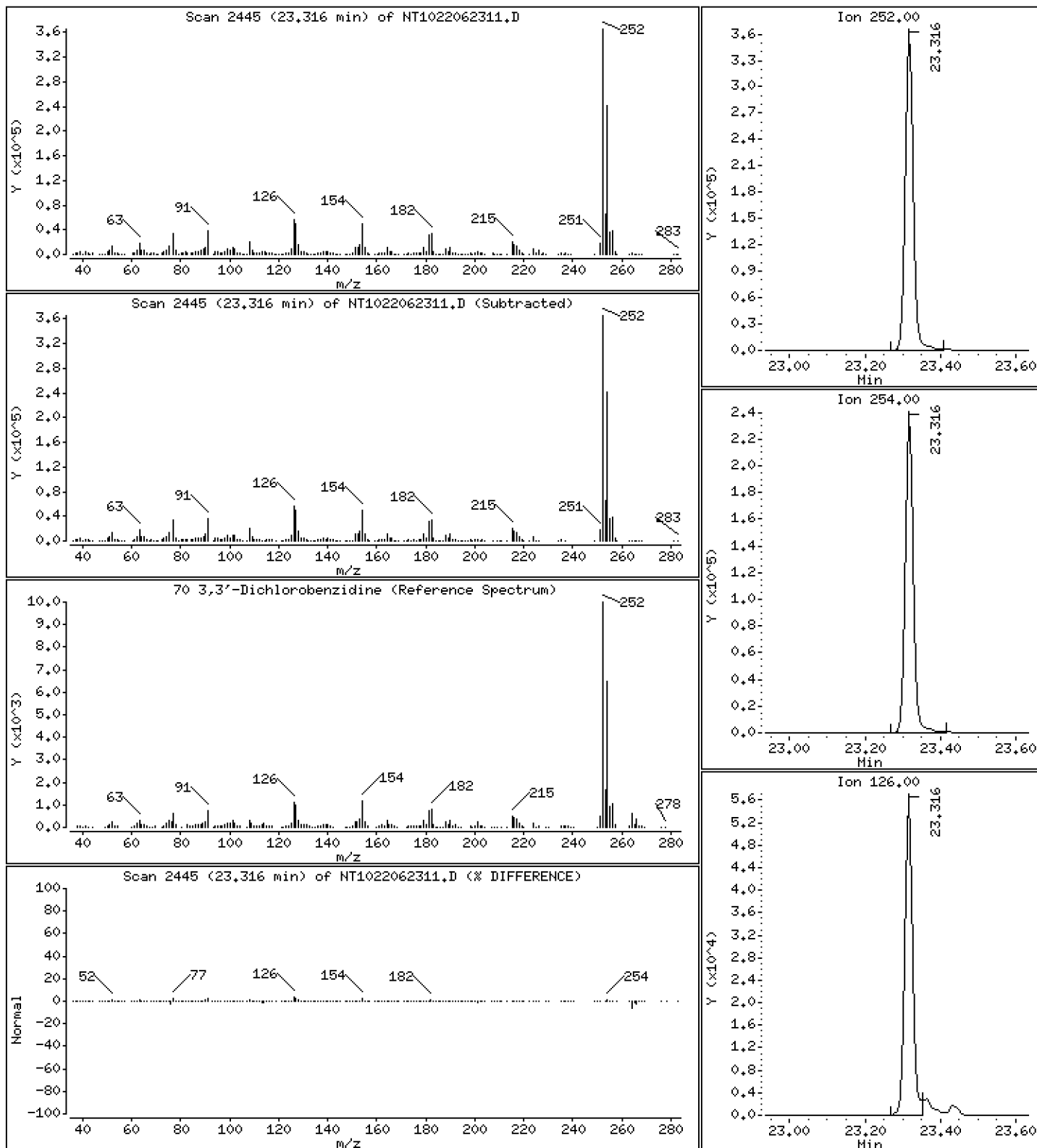
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 11,77 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

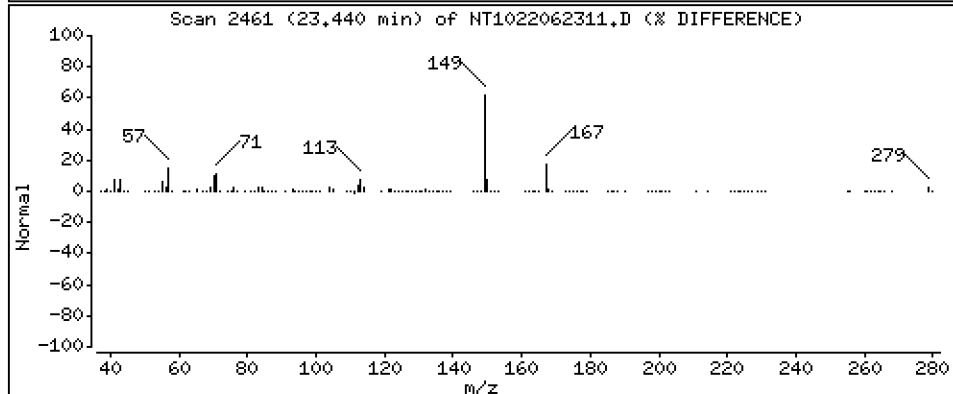
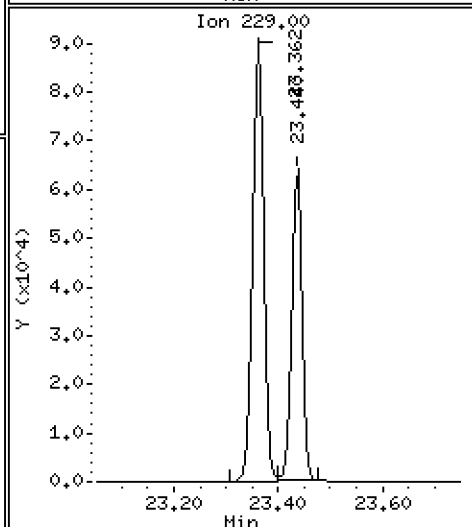
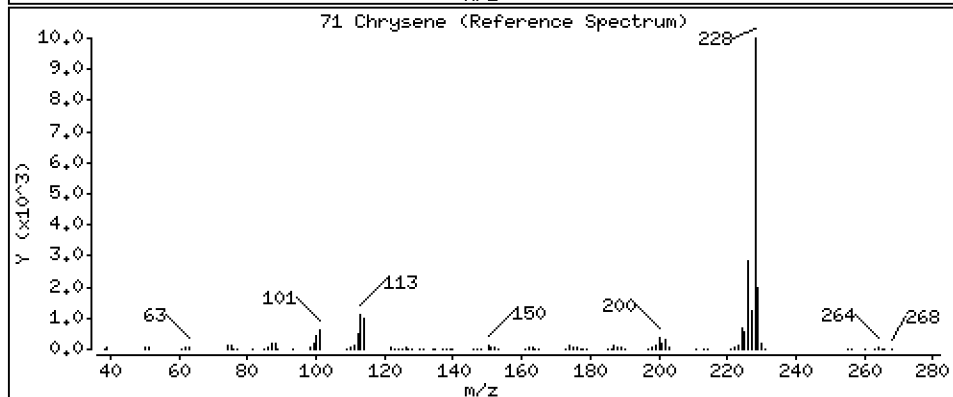
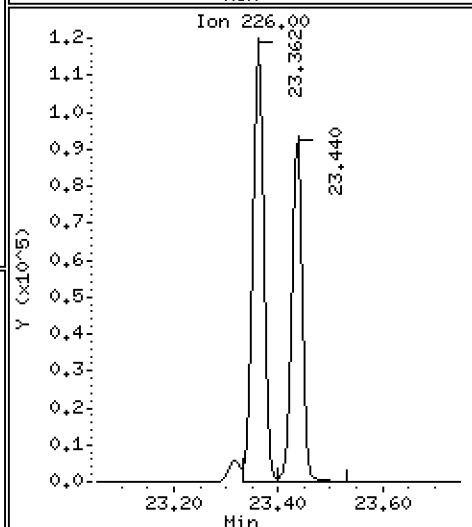
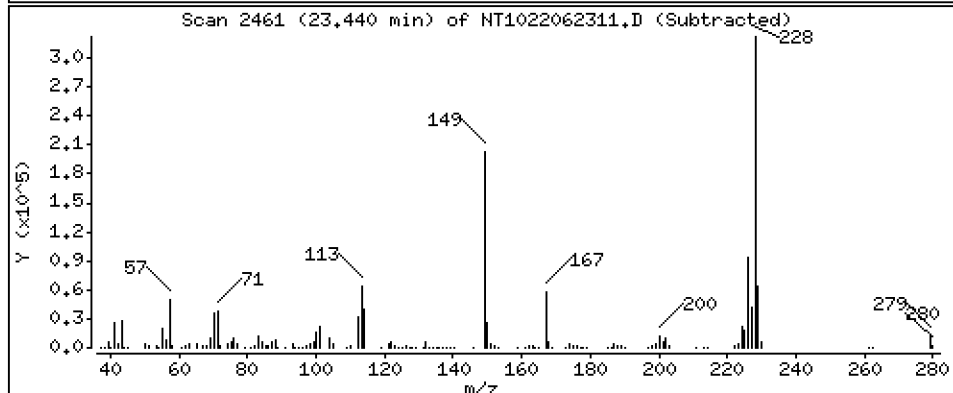
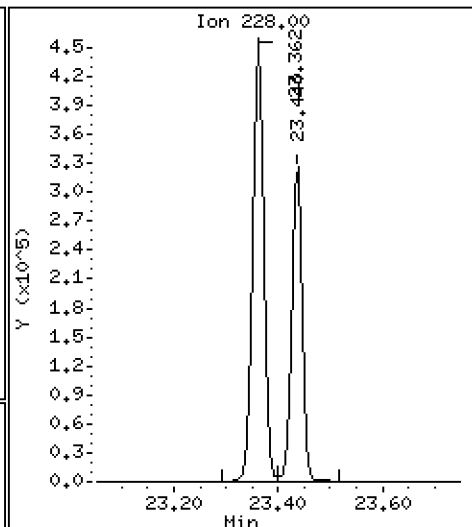
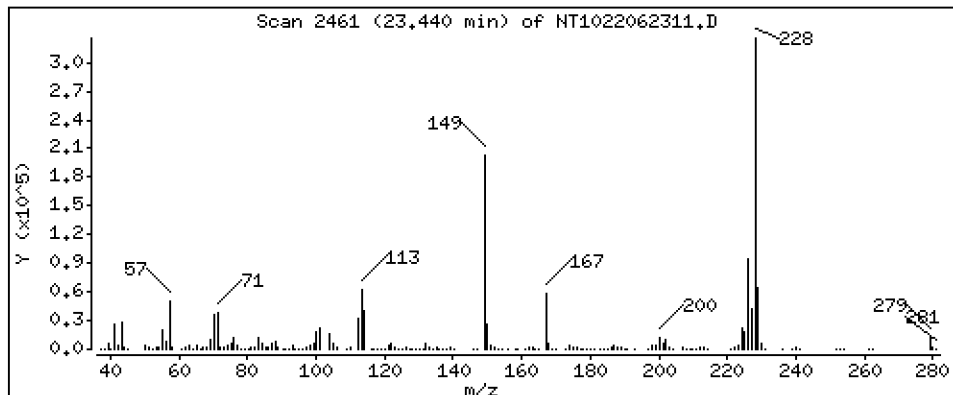
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,725 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

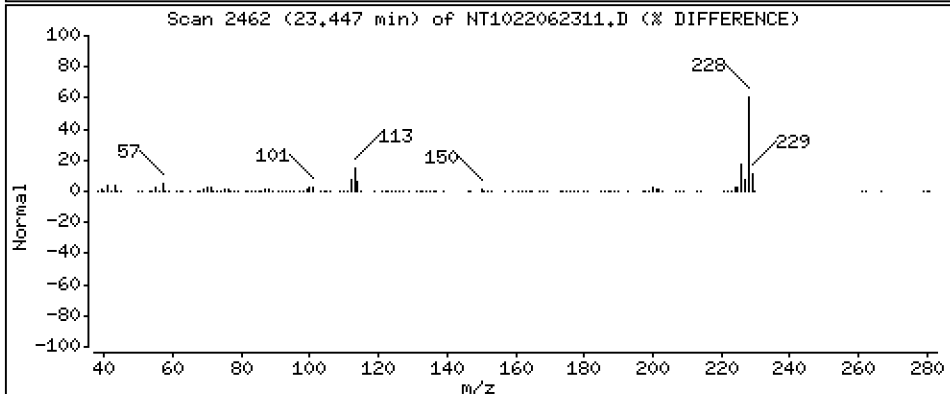
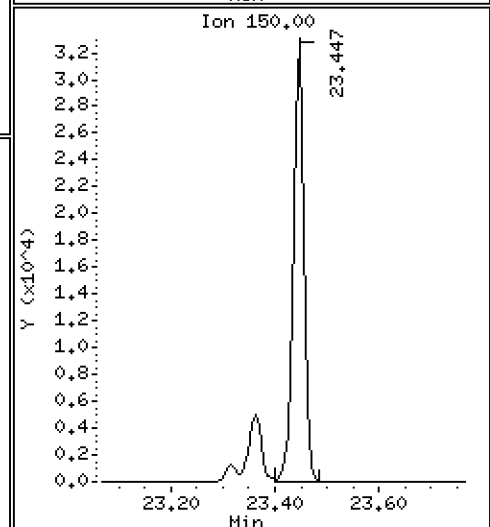
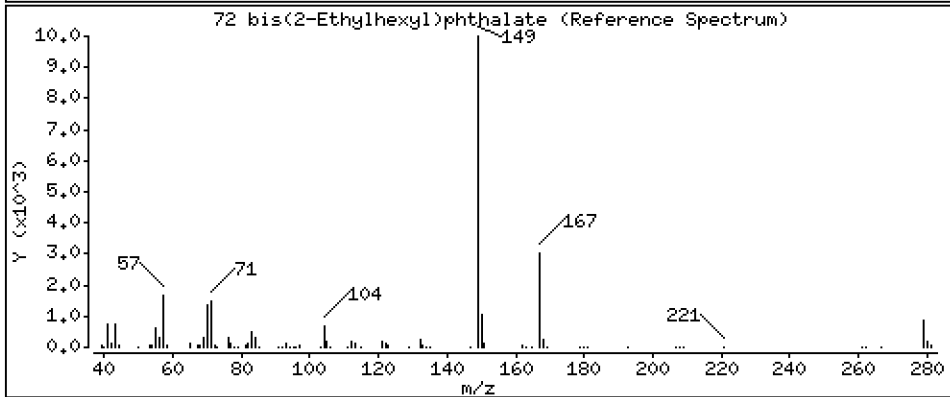
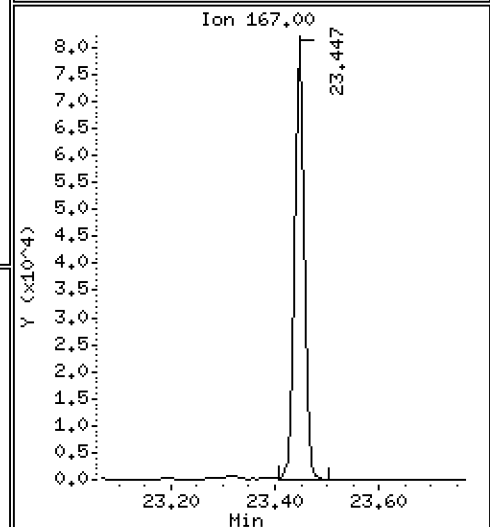
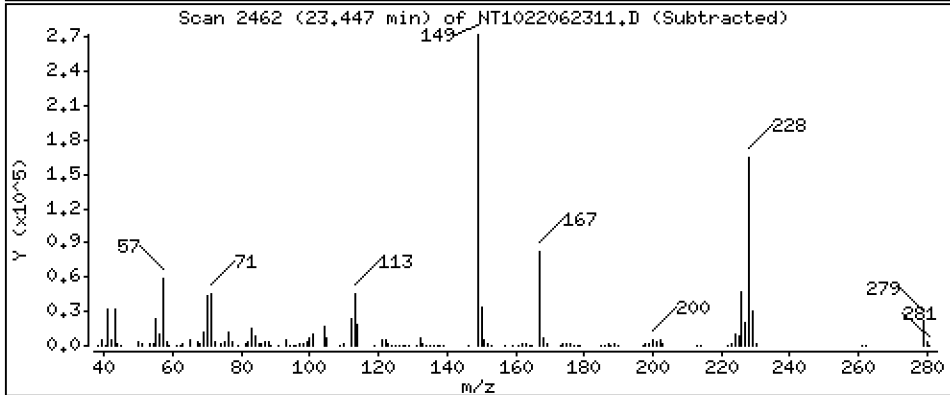
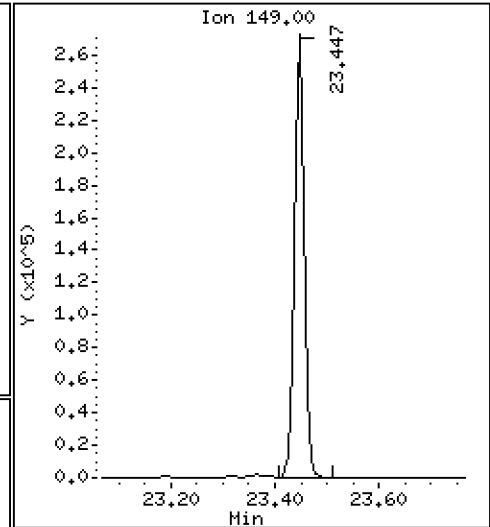
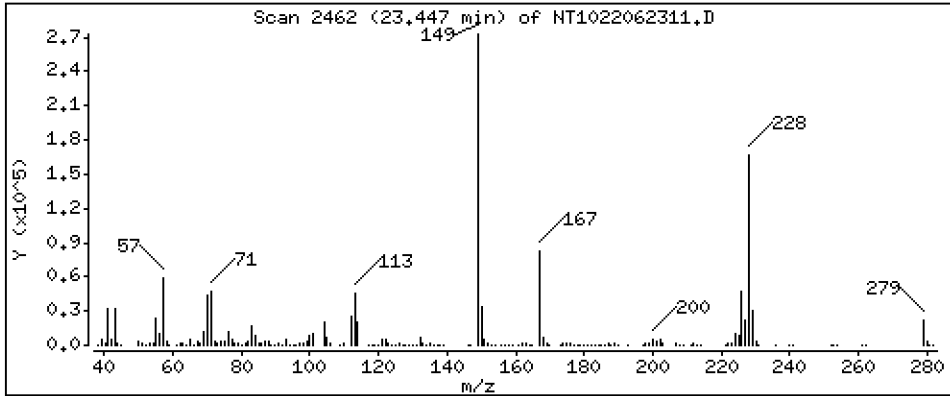
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,061 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

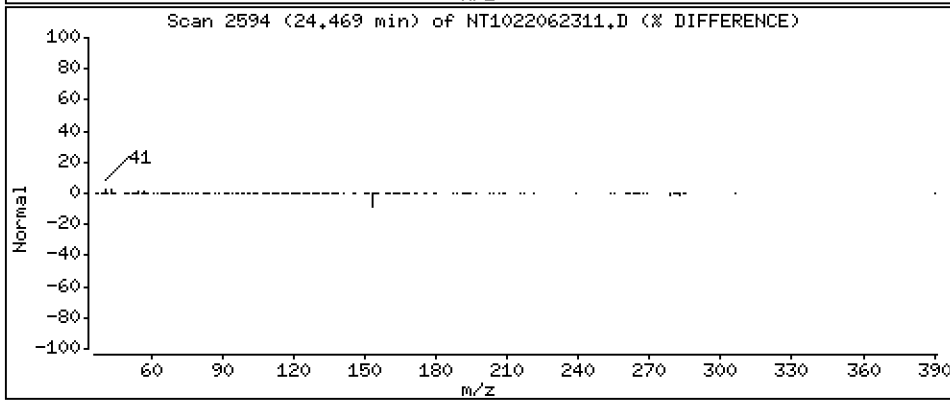
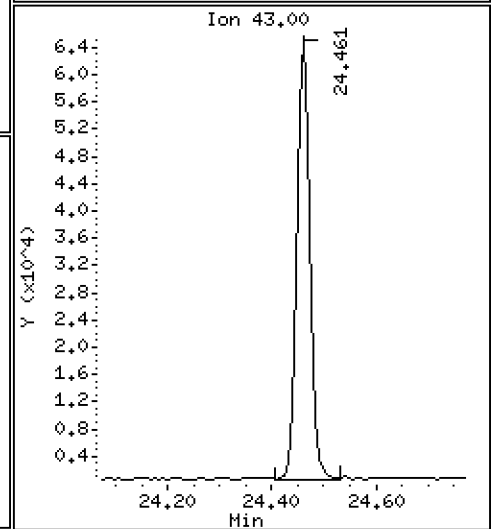
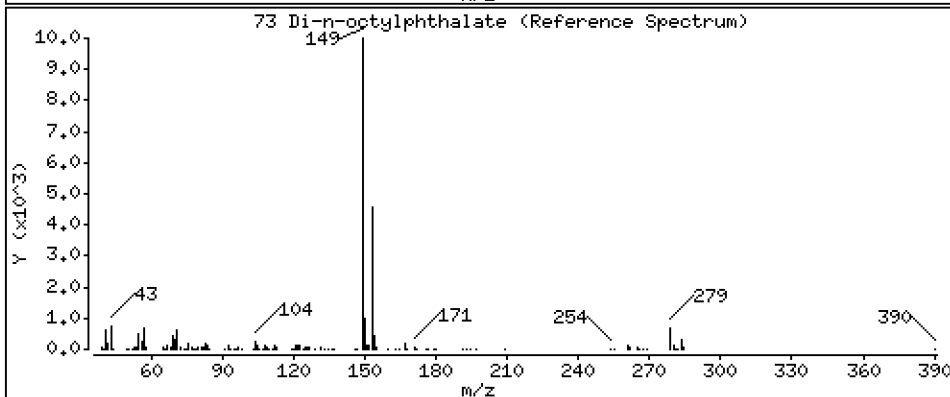
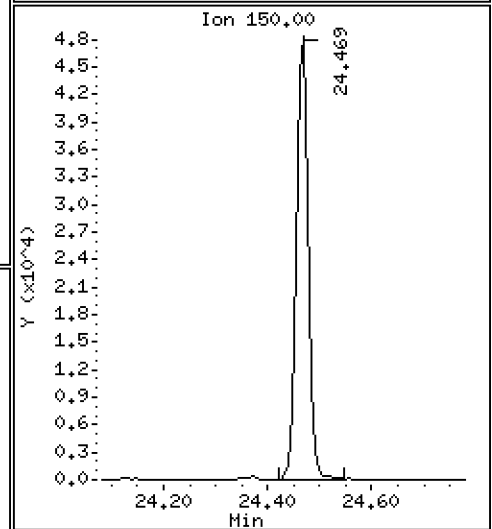
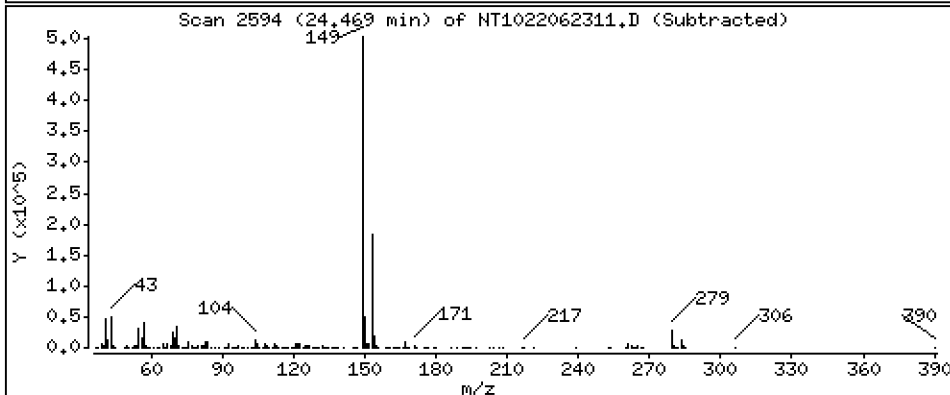
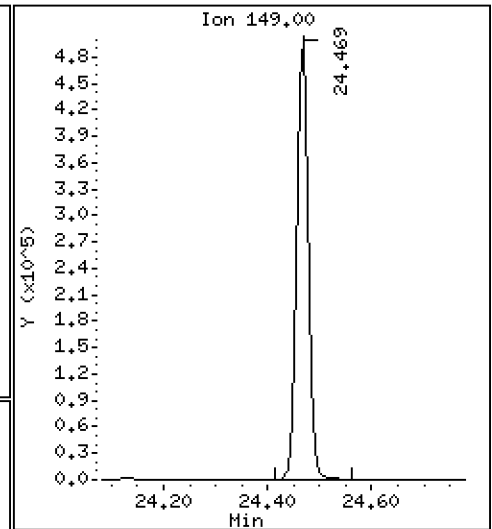
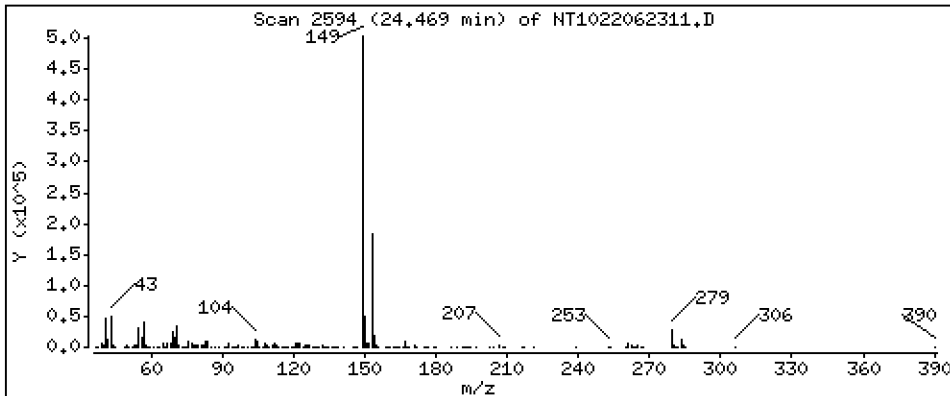
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,502 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

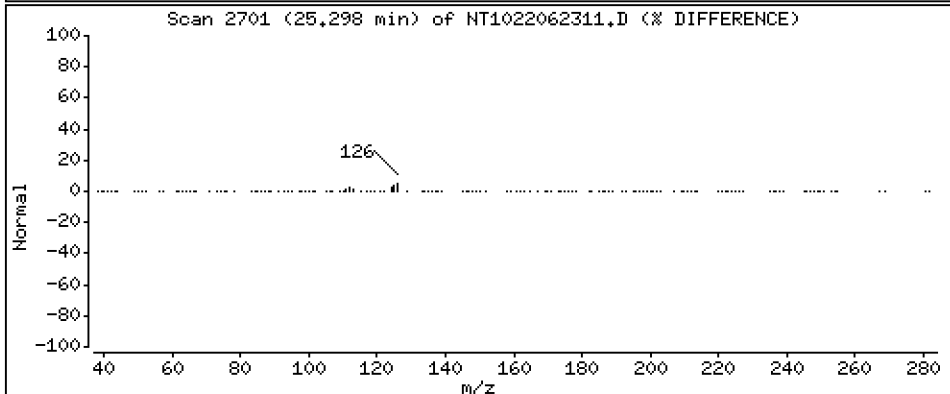
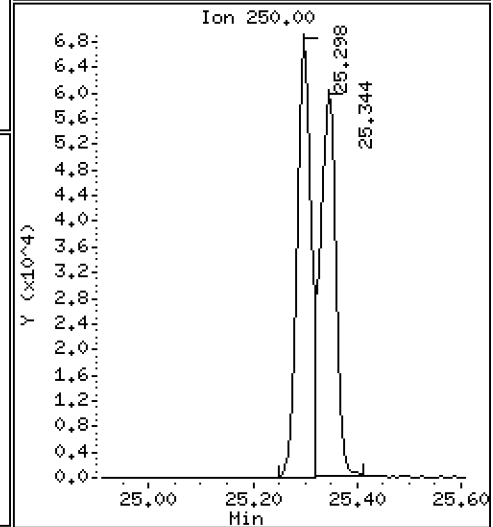
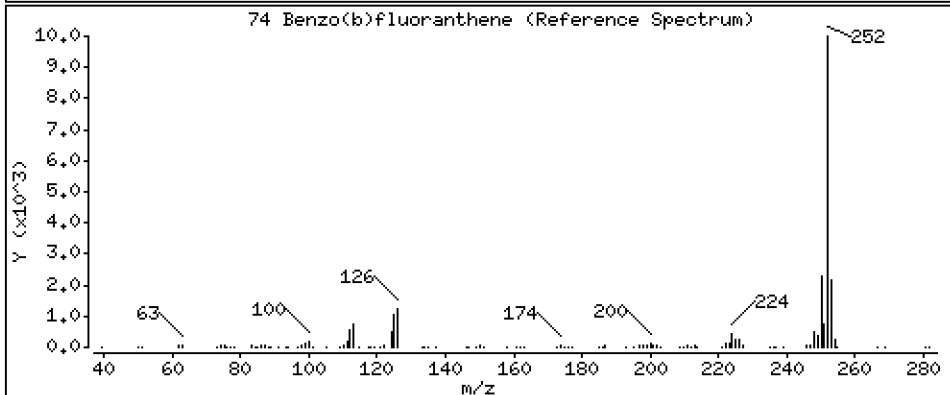
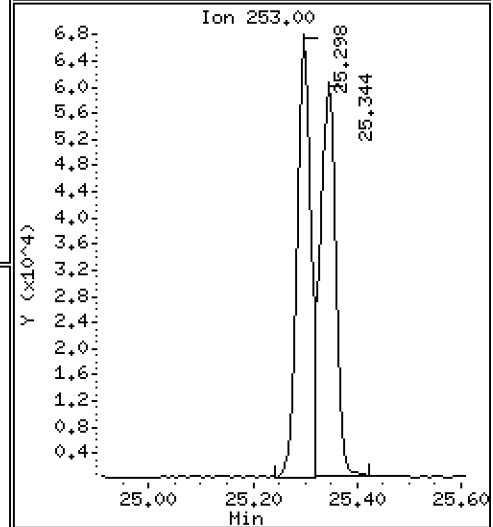
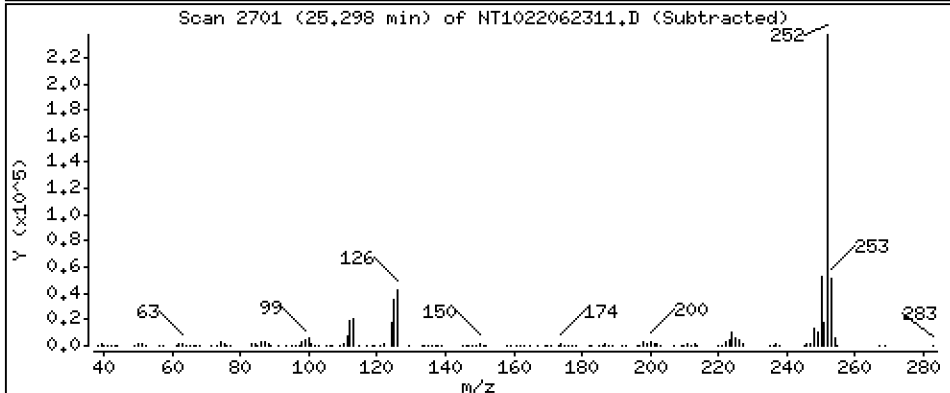
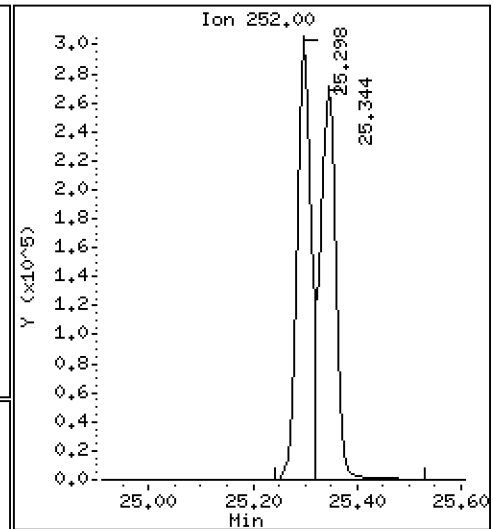
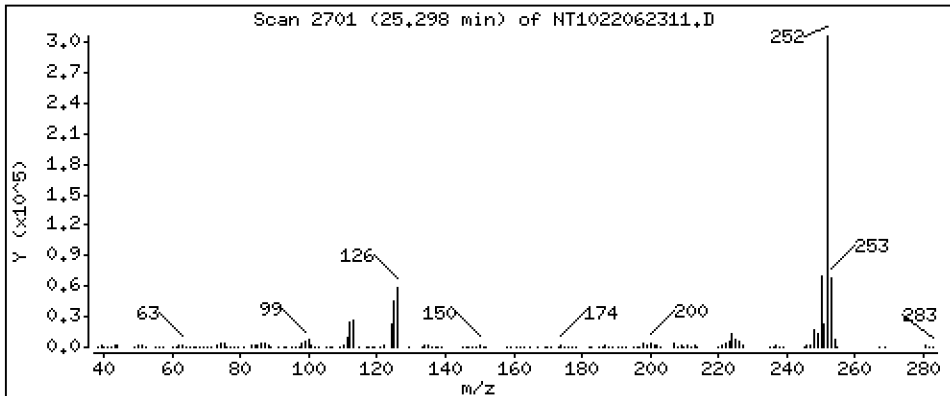
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,955 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

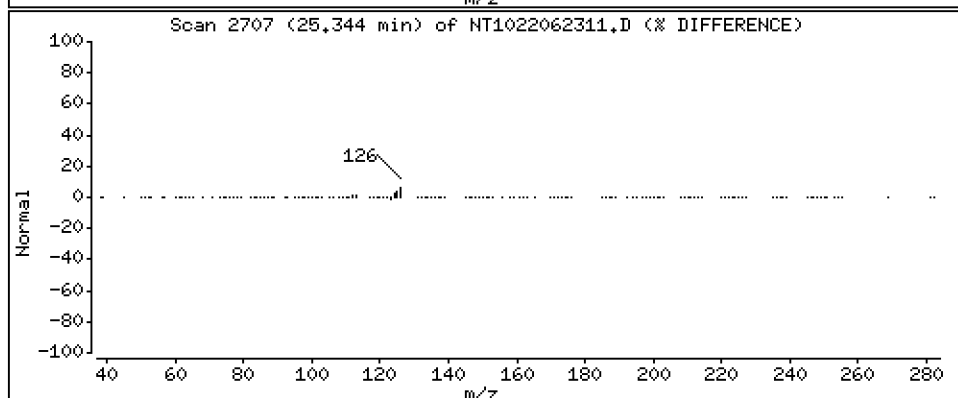
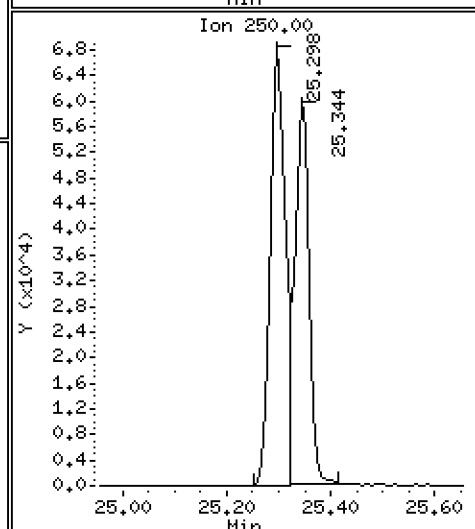
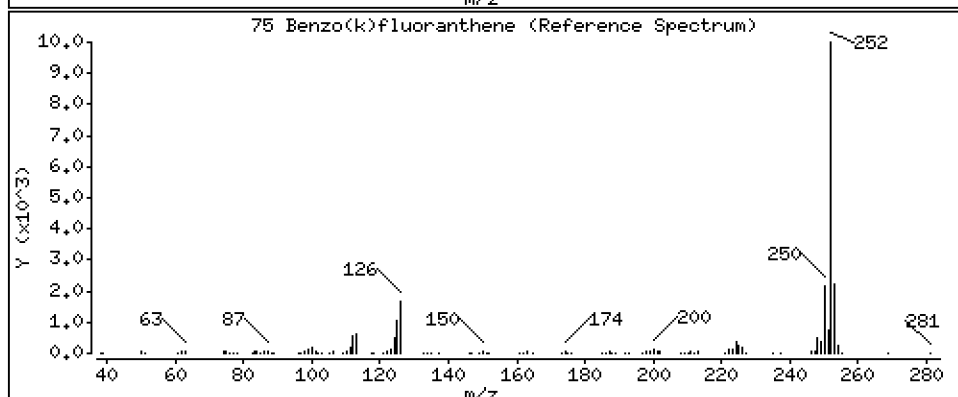
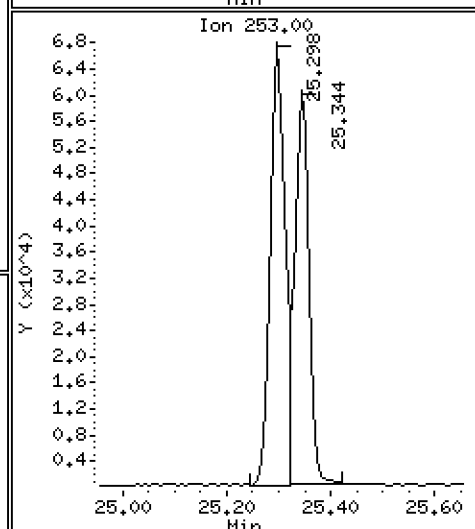
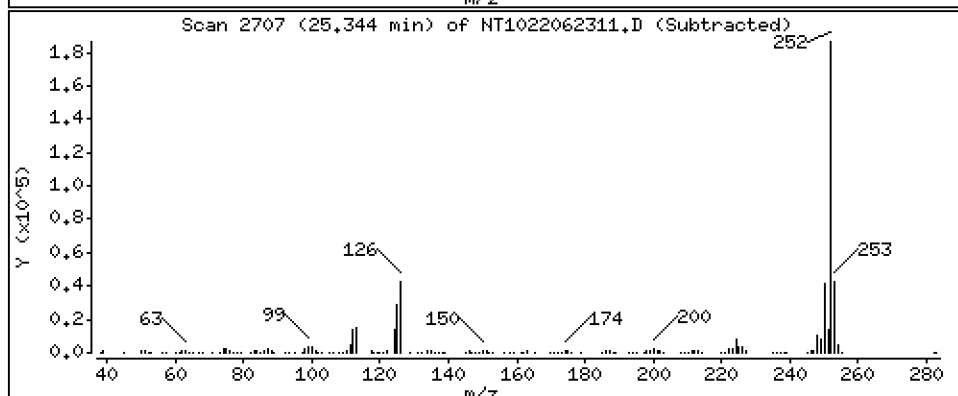
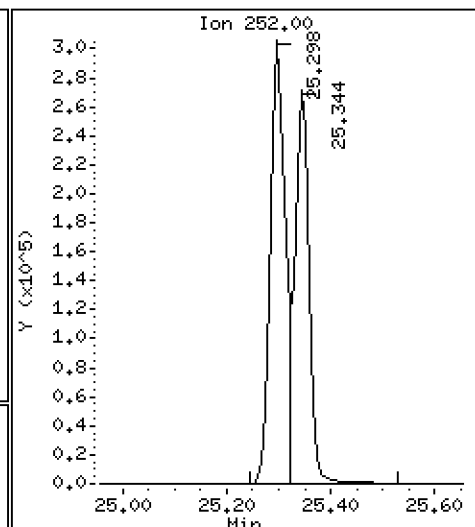
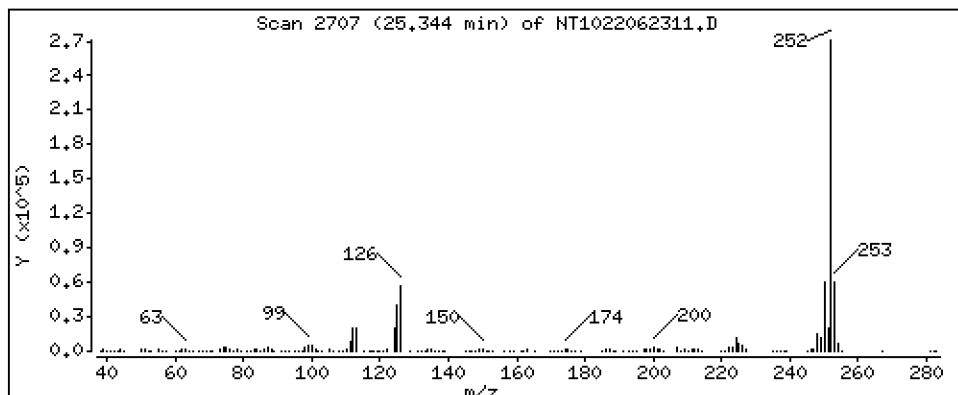
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 5,262 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

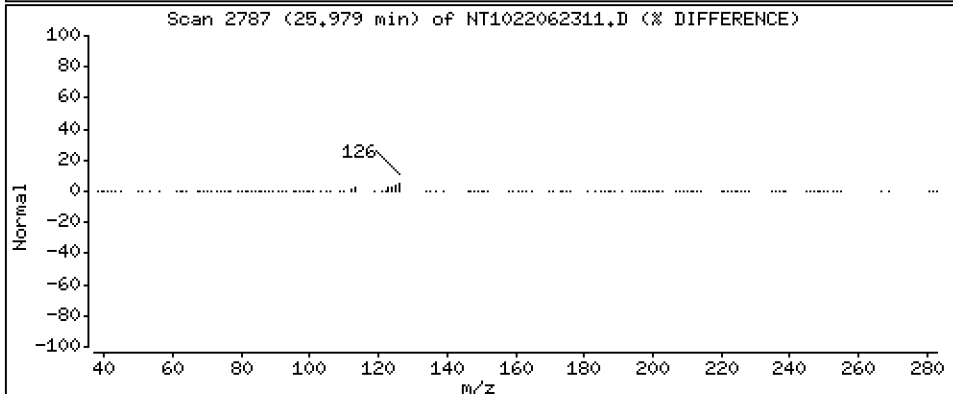
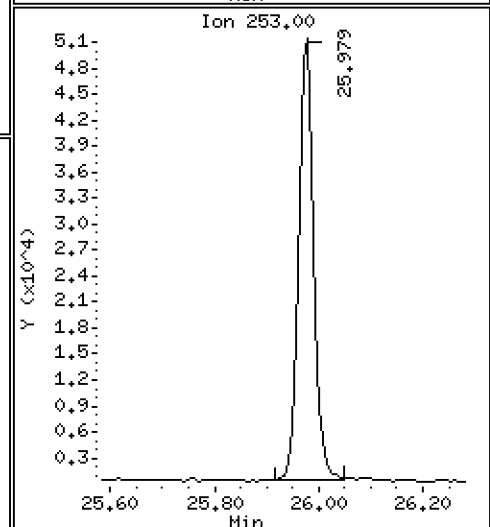
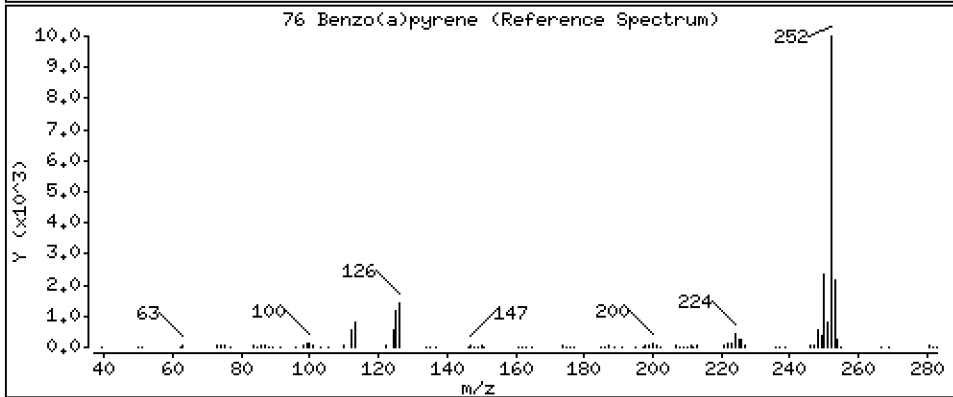
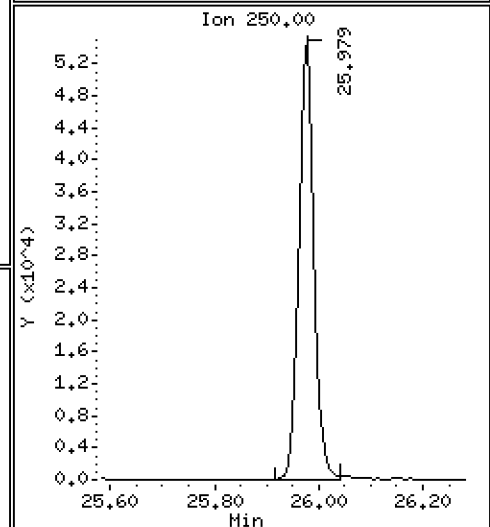
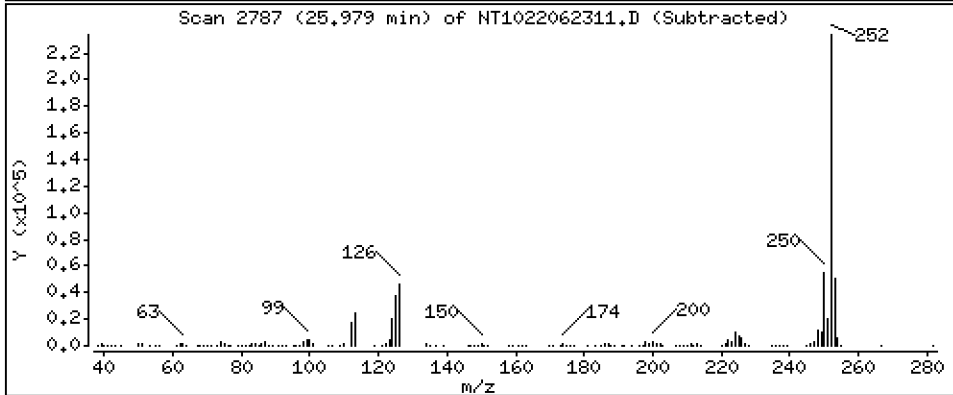
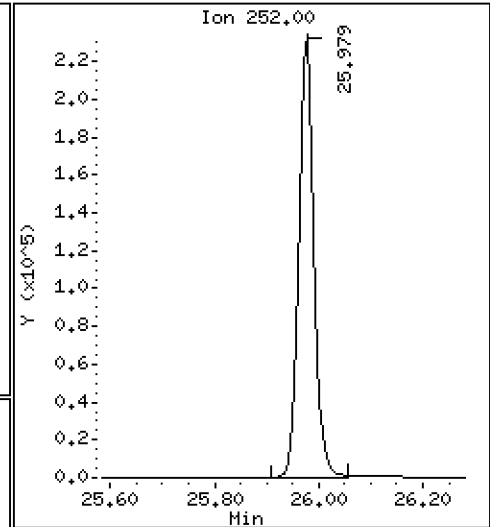
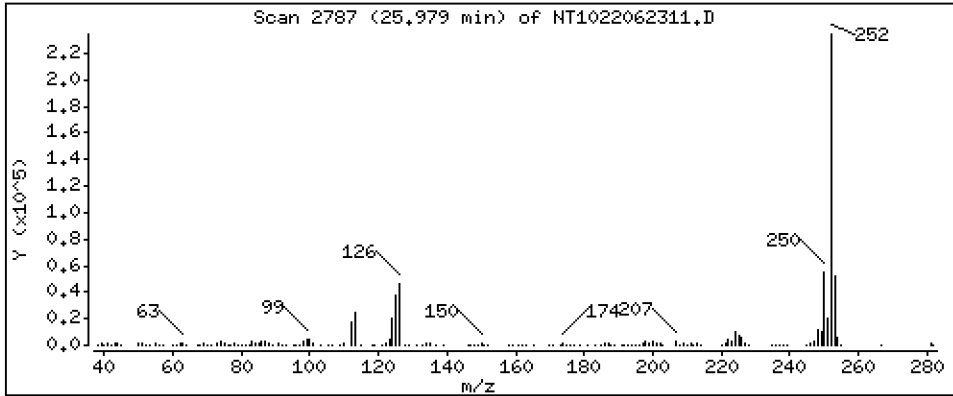
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,900 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

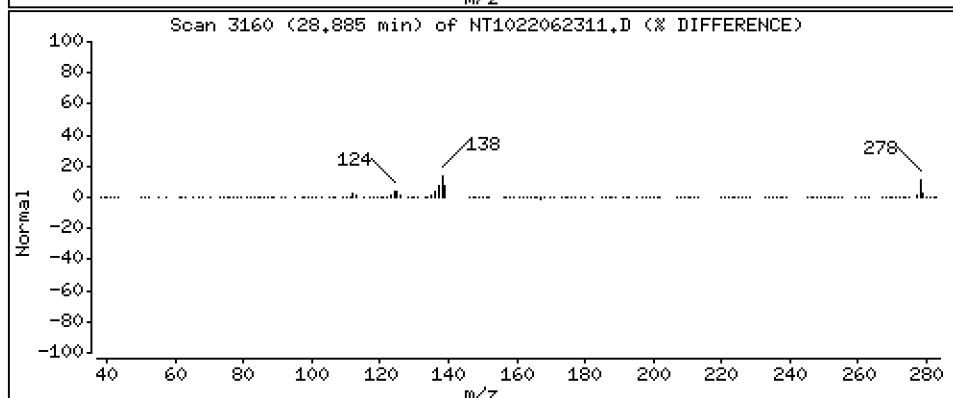
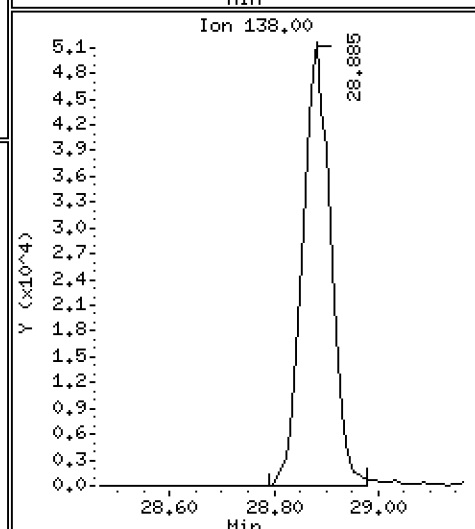
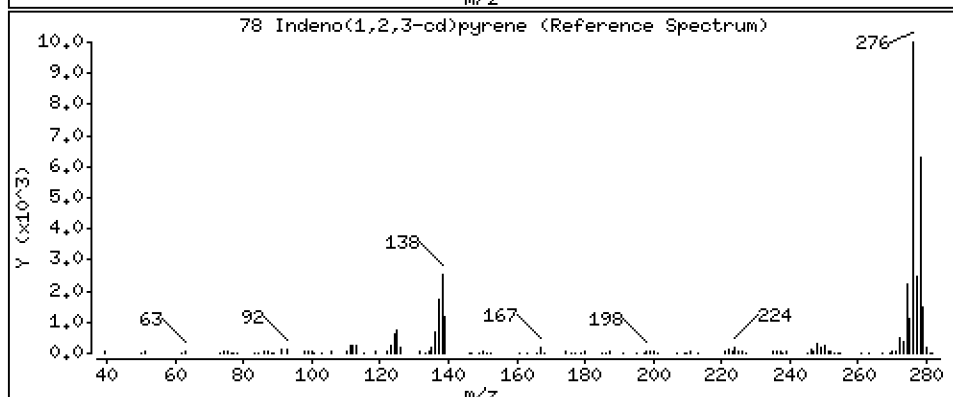
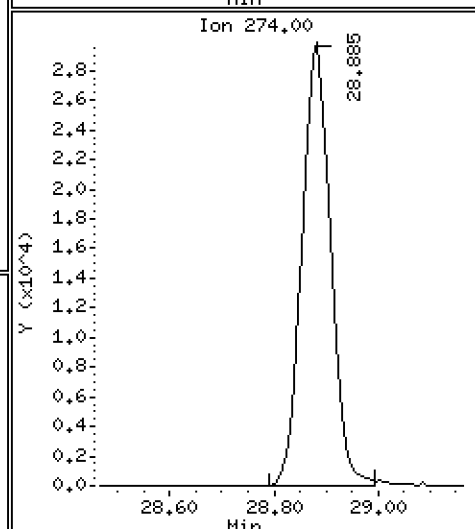
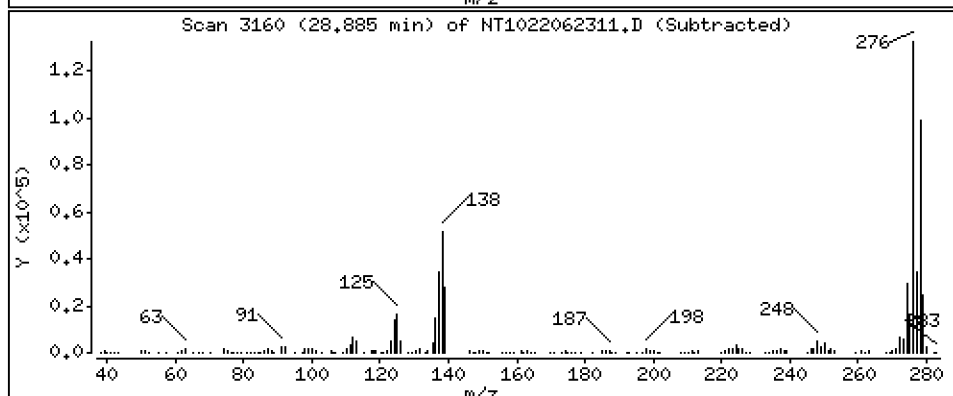
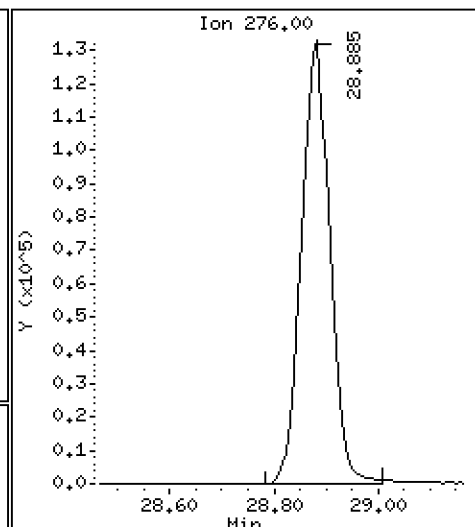
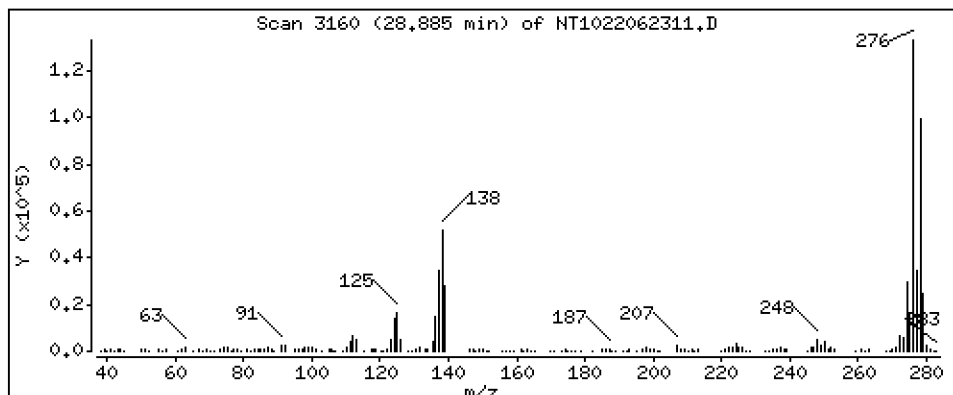
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,763 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

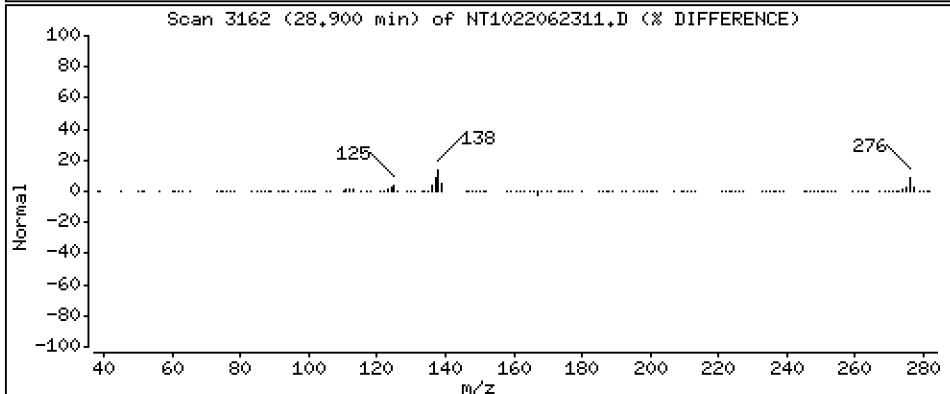
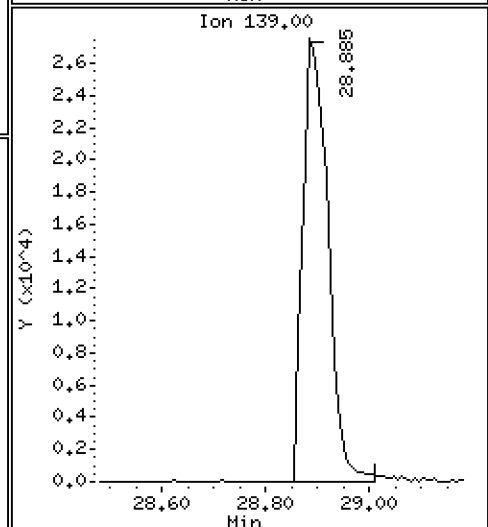
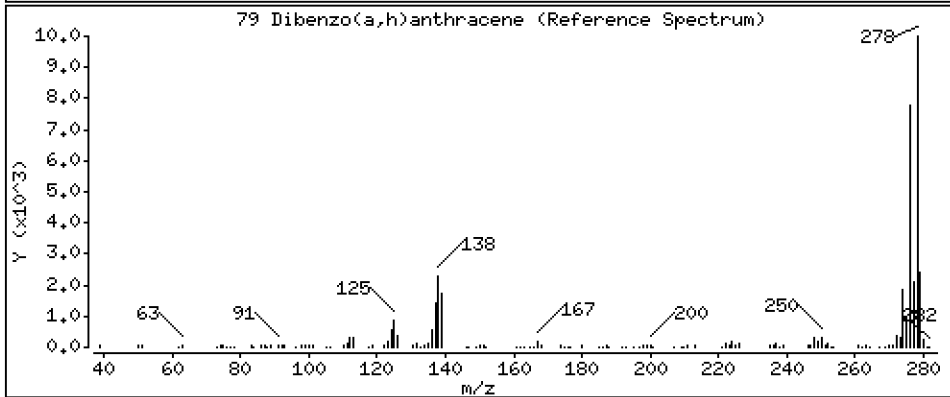
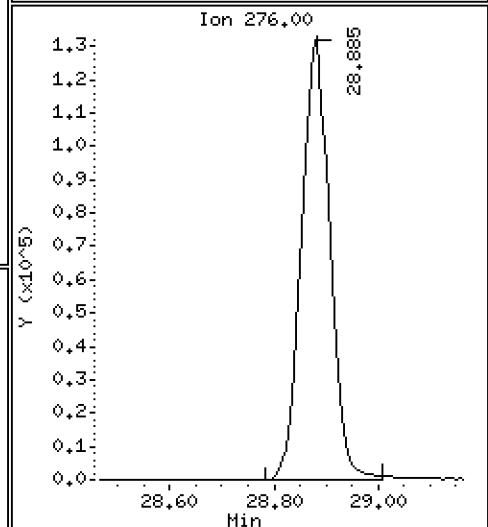
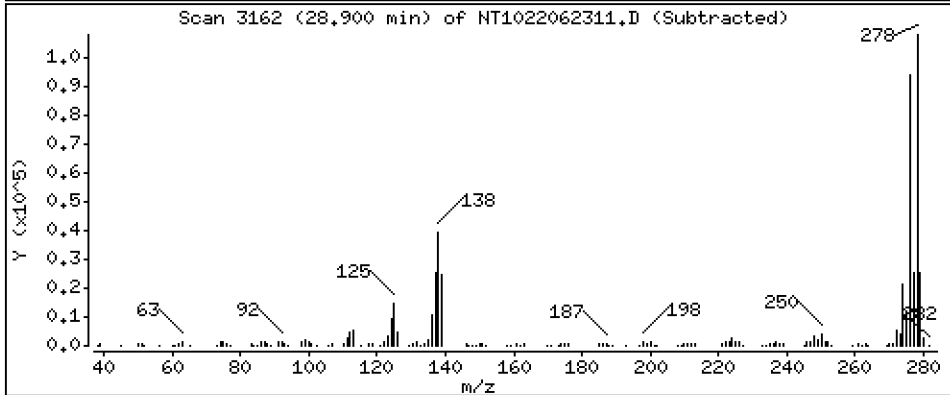
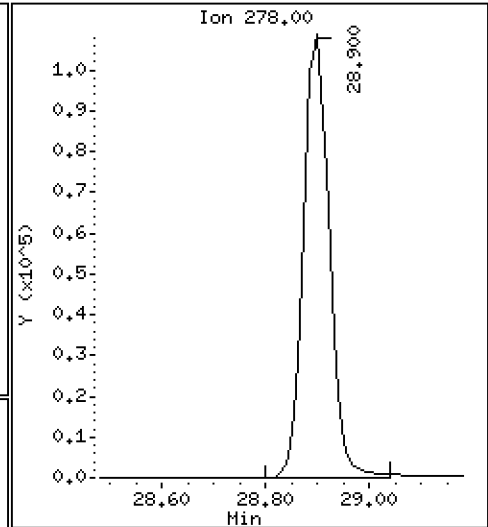
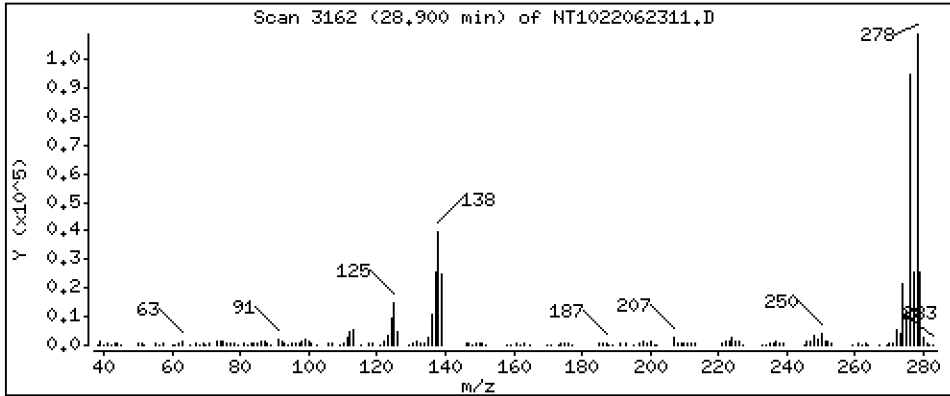
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,675 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

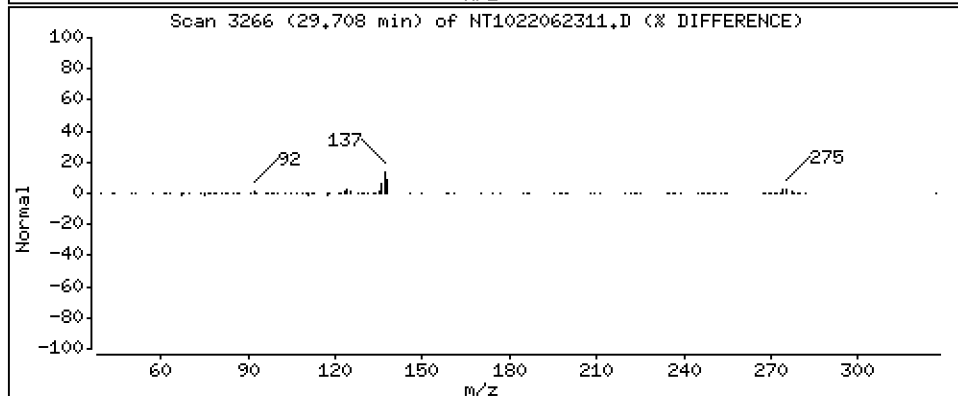
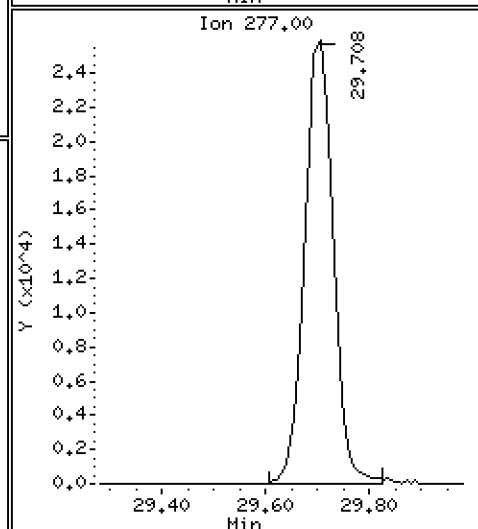
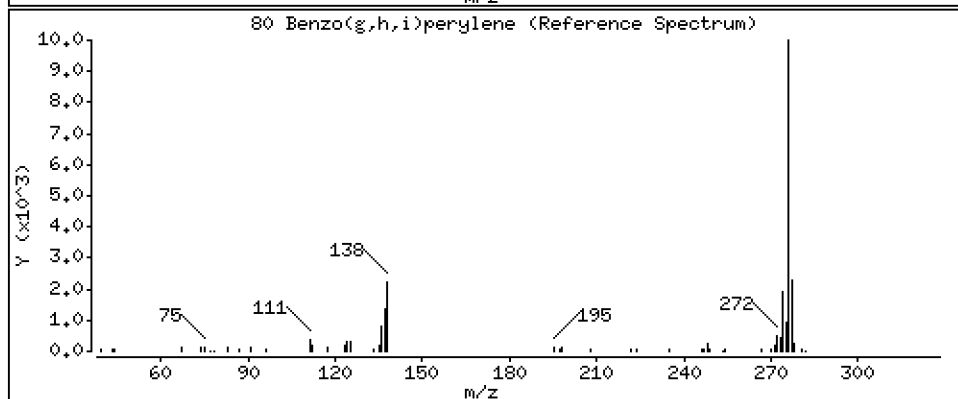
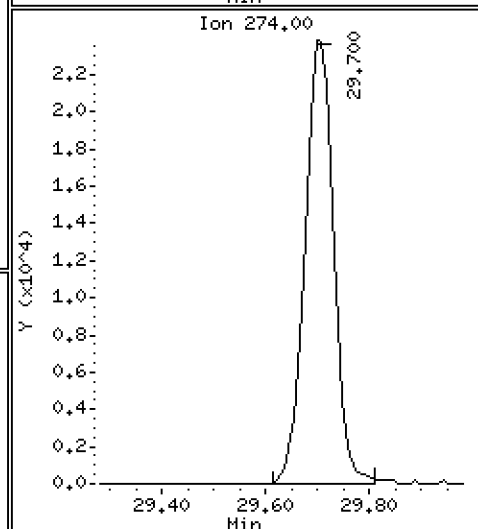
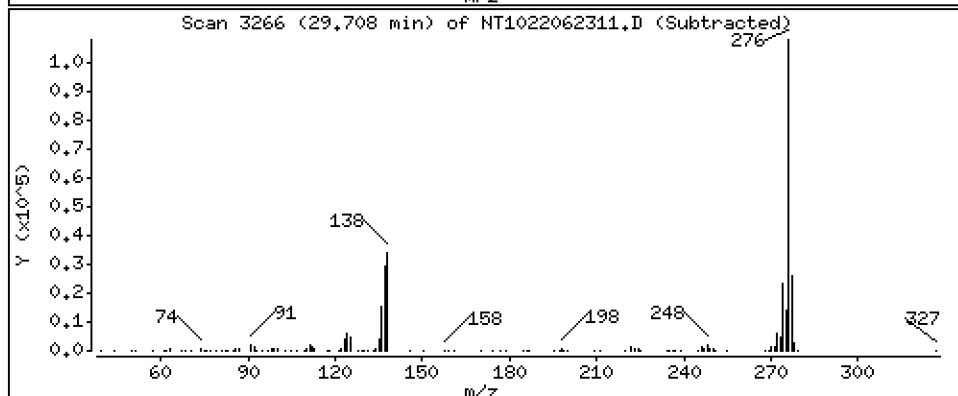
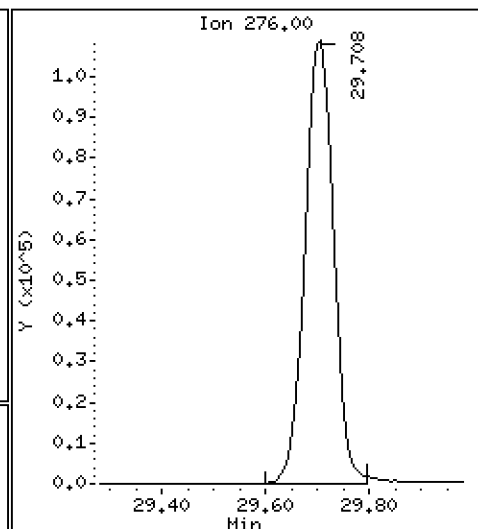
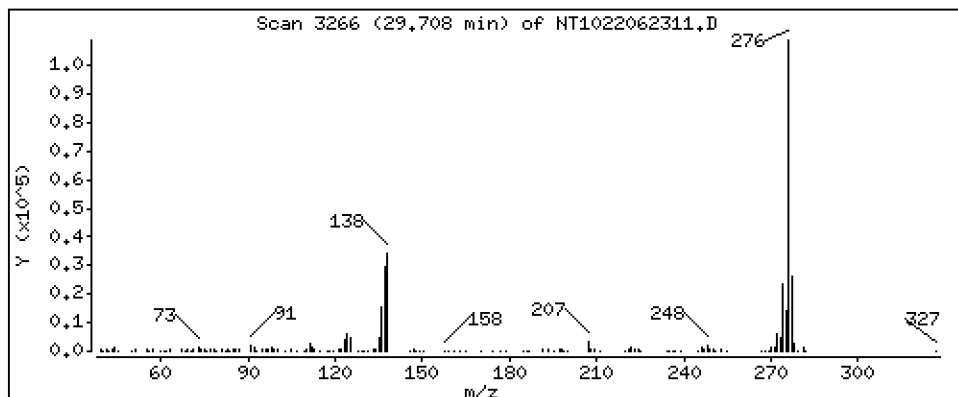
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,912 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

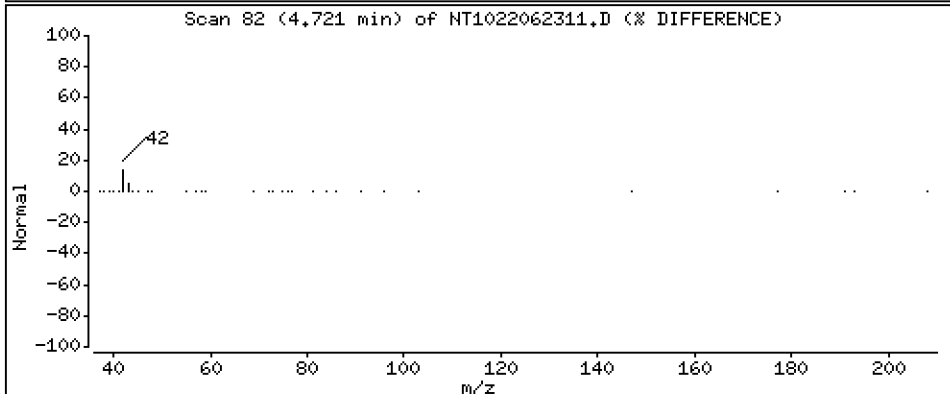
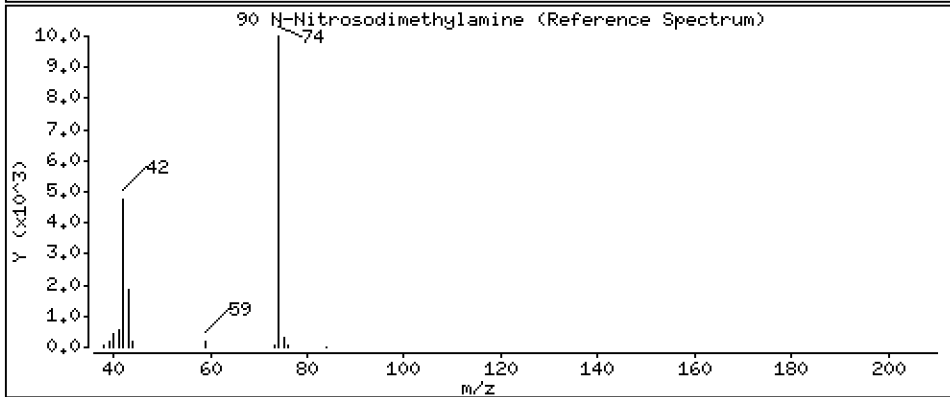
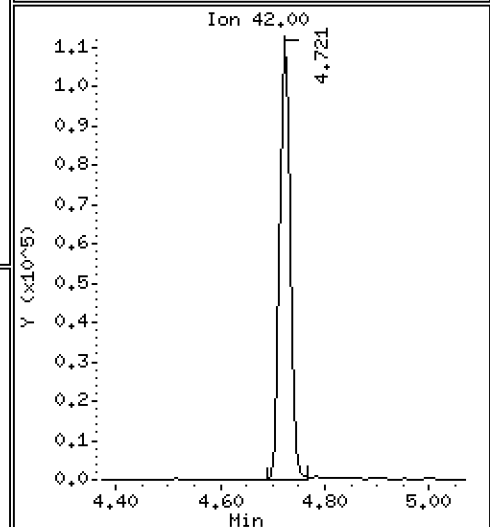
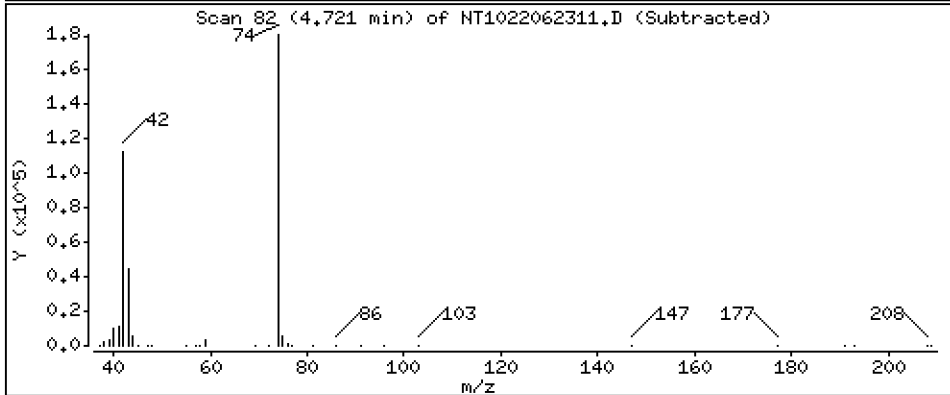
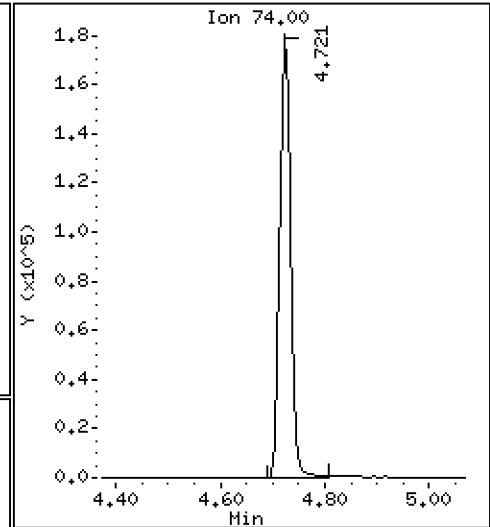
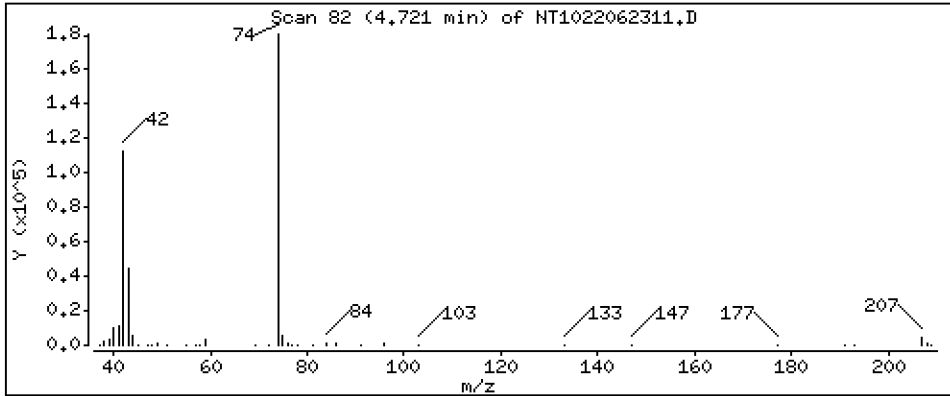
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 6,686 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

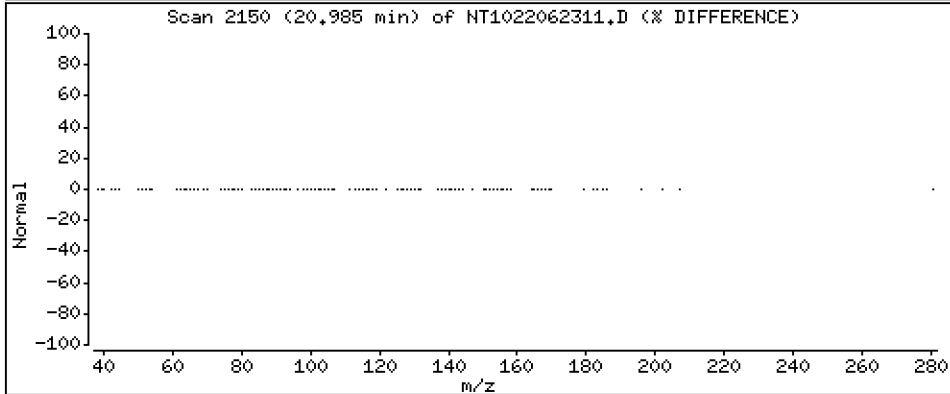
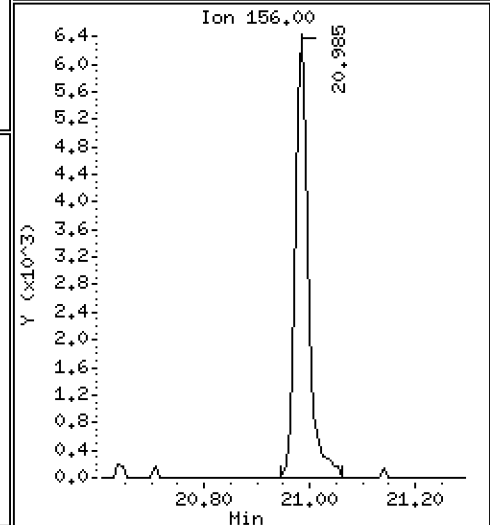
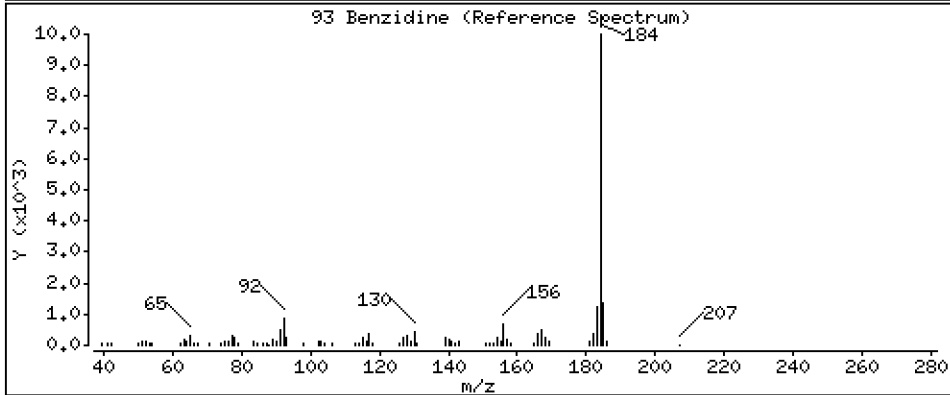
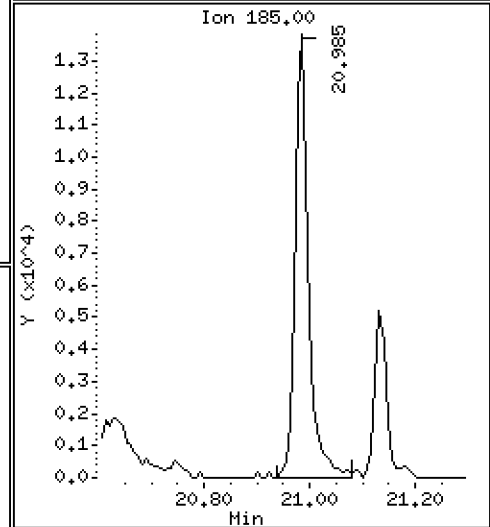
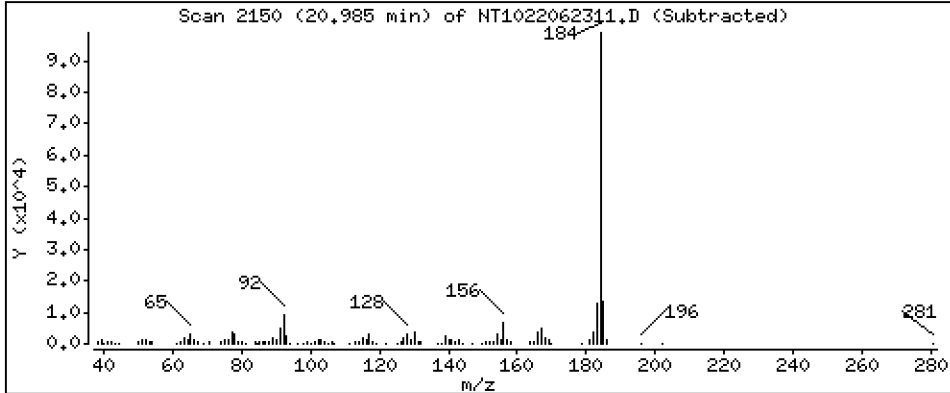
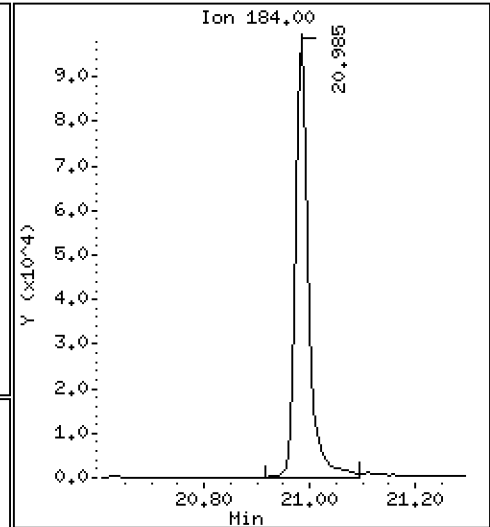
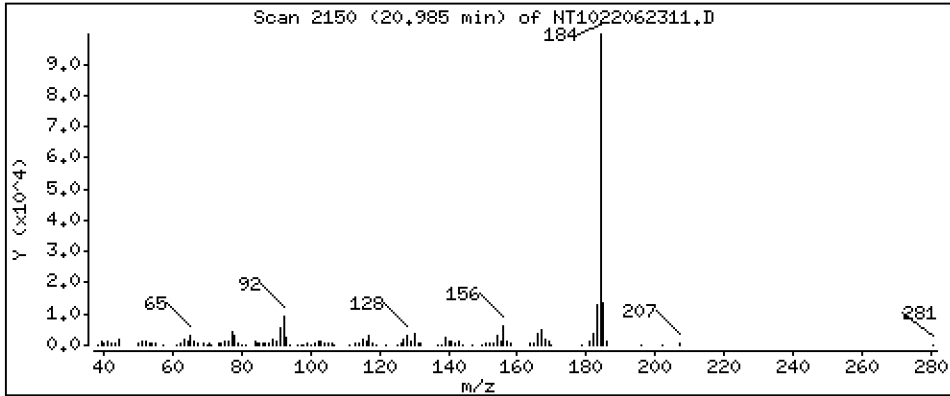
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 3,485 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

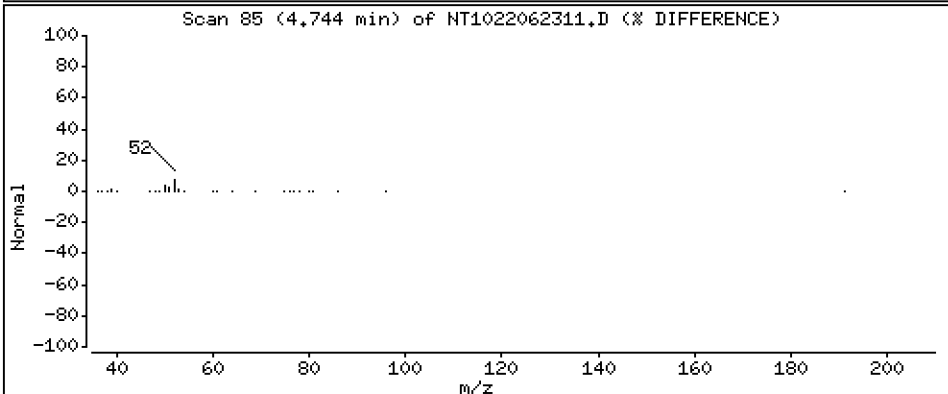
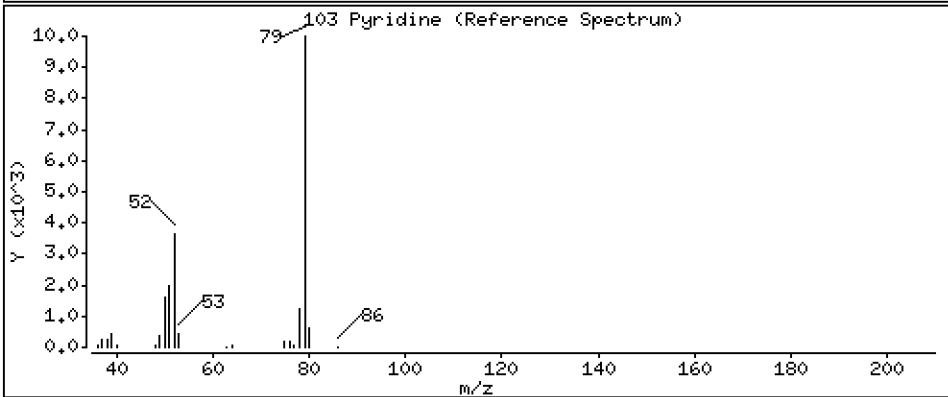
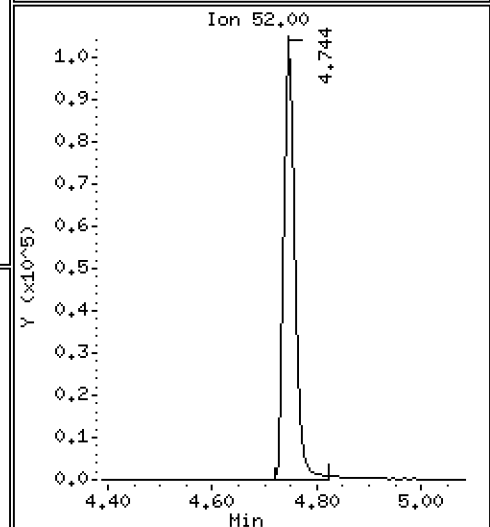
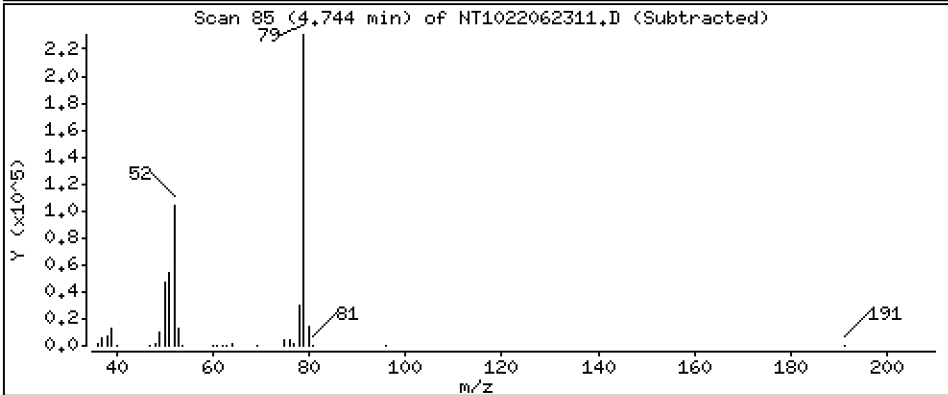
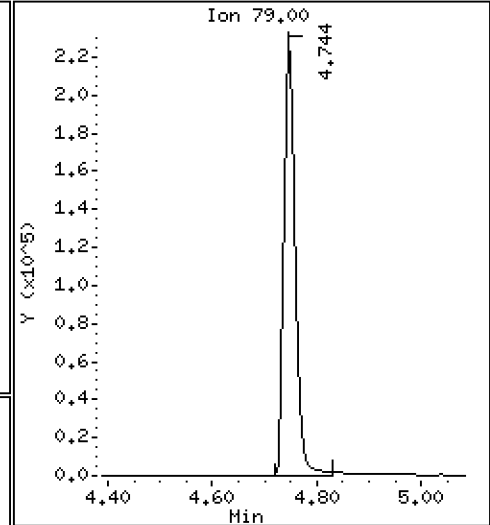
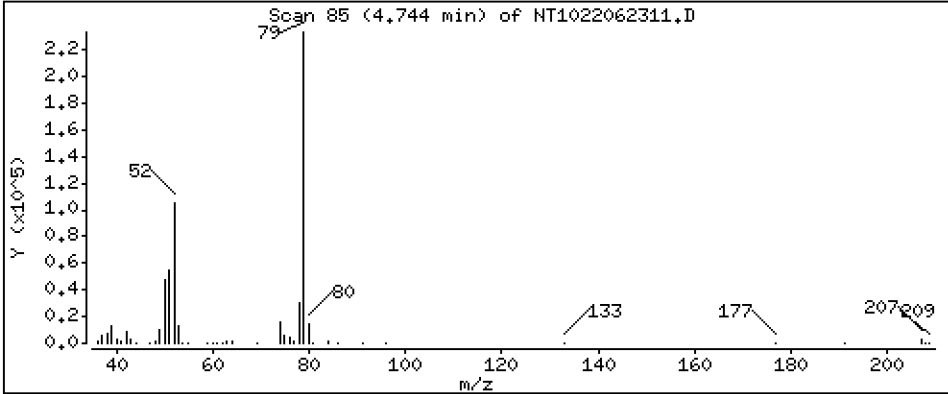
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 3,149 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

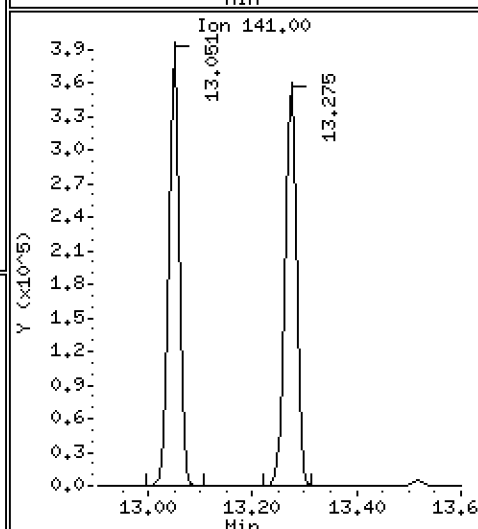
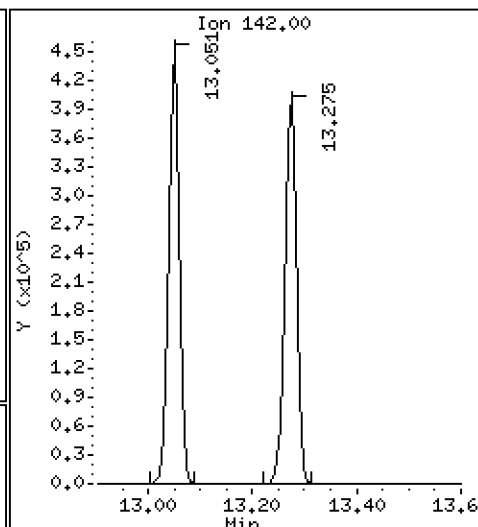
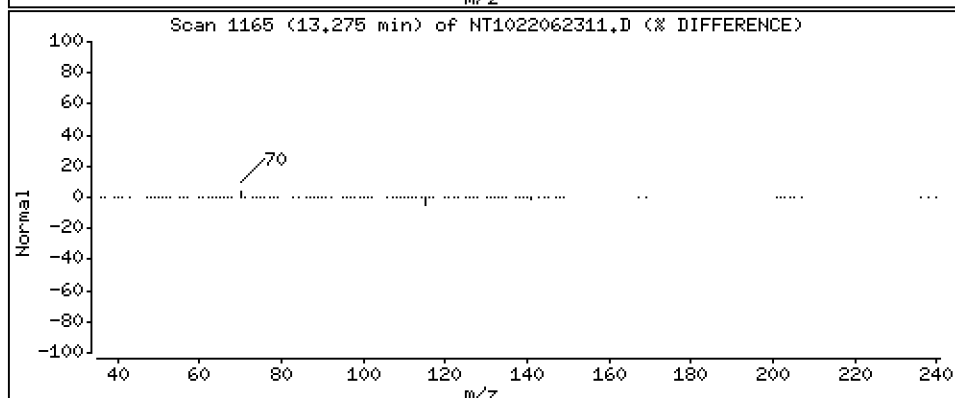
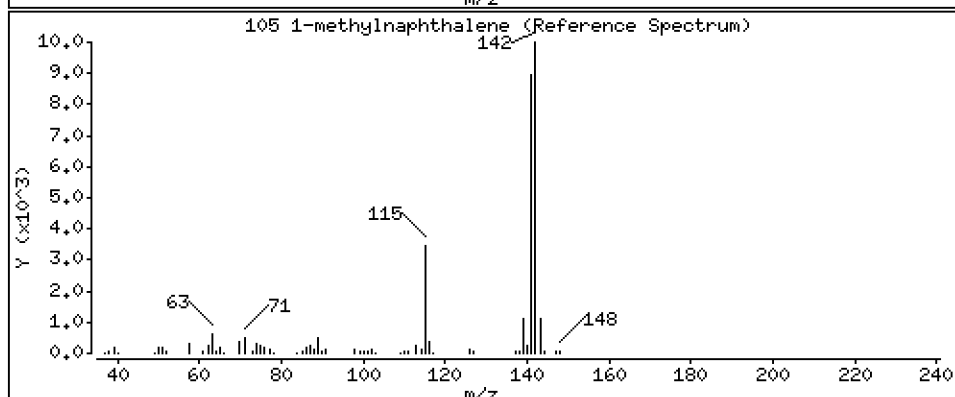
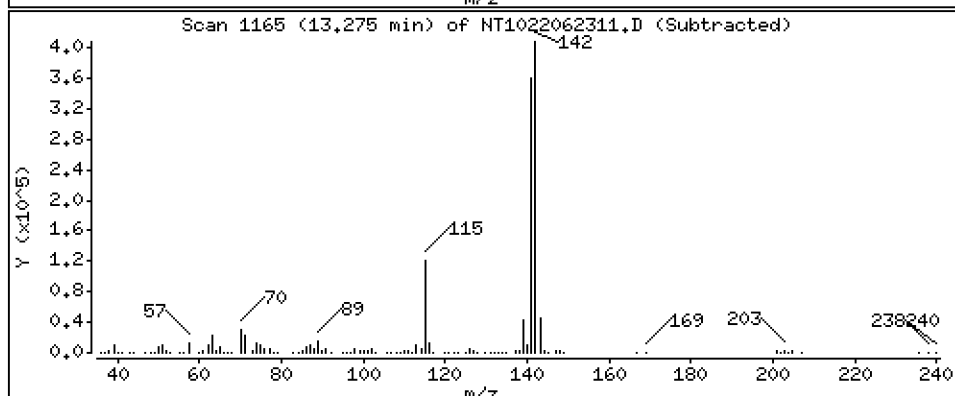
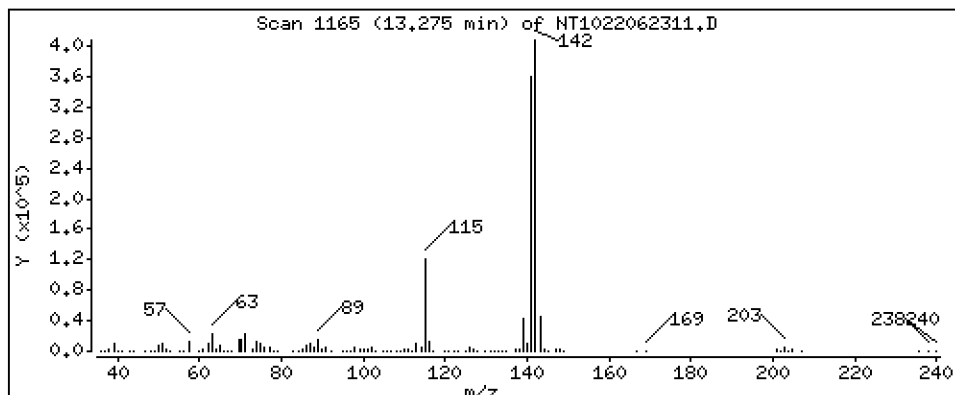
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,162 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

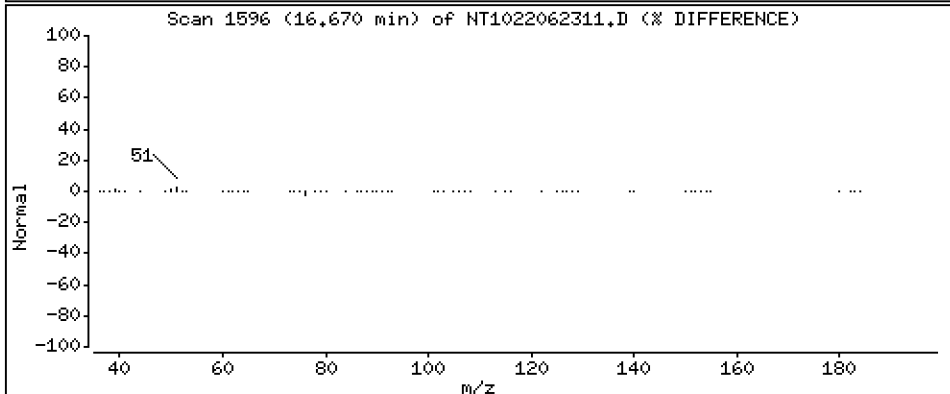
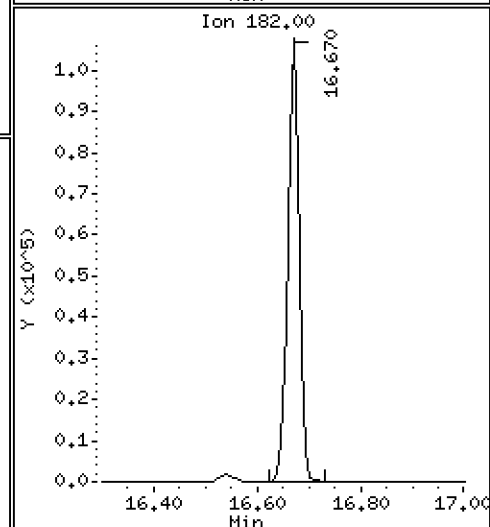
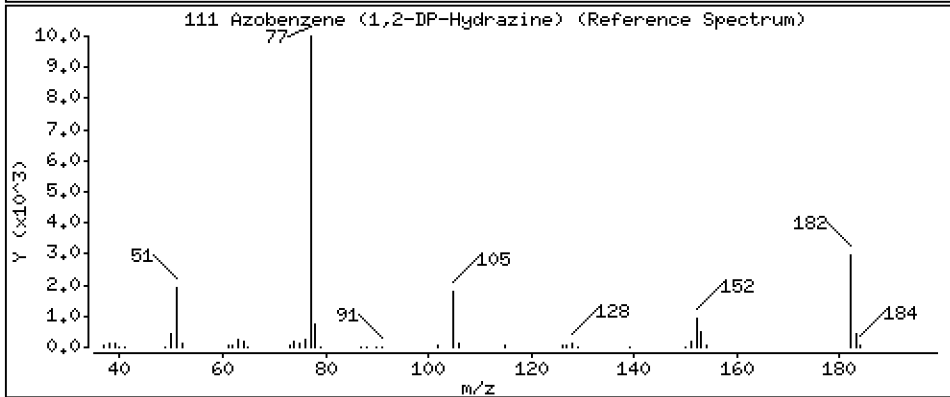
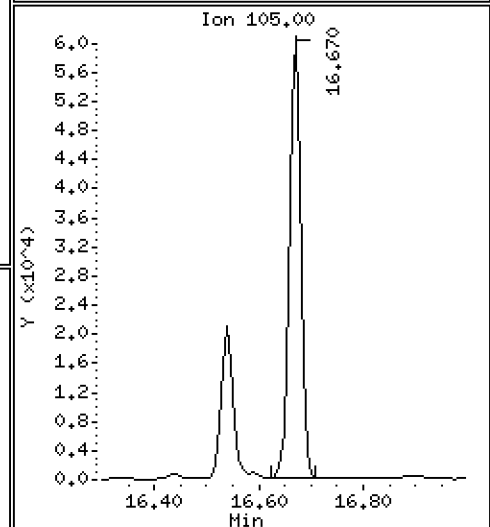
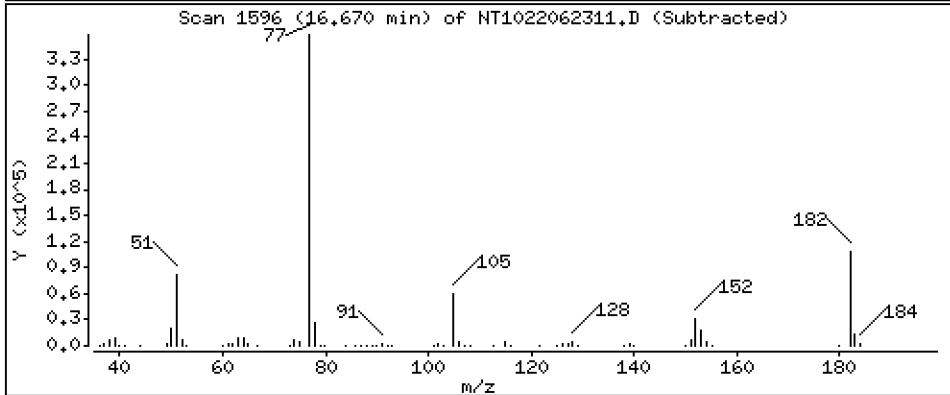
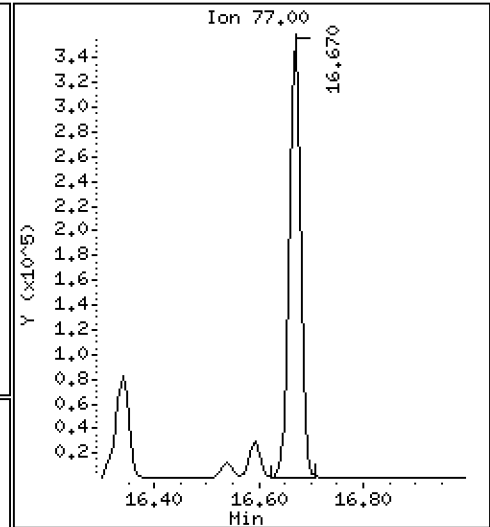
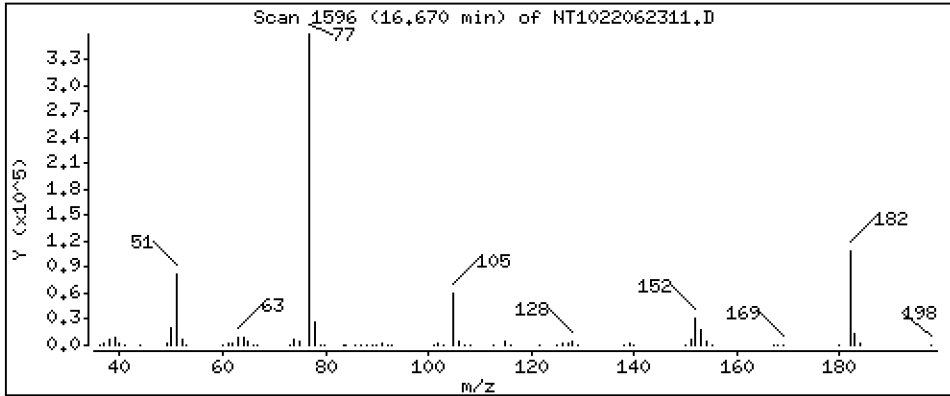
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,882 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

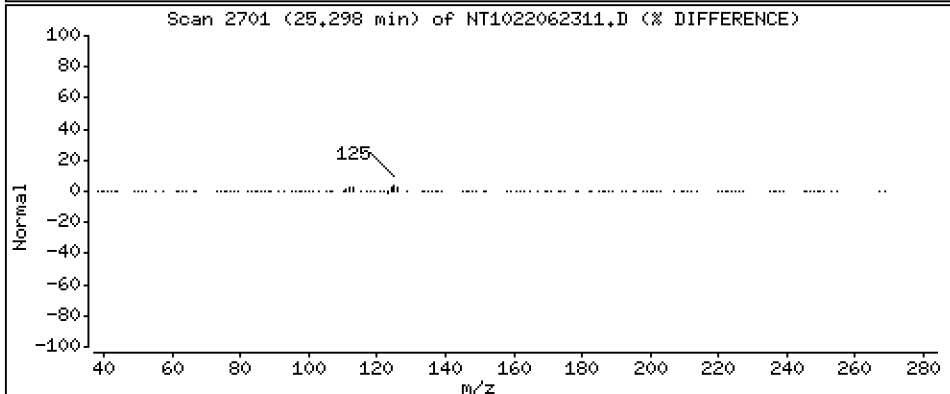
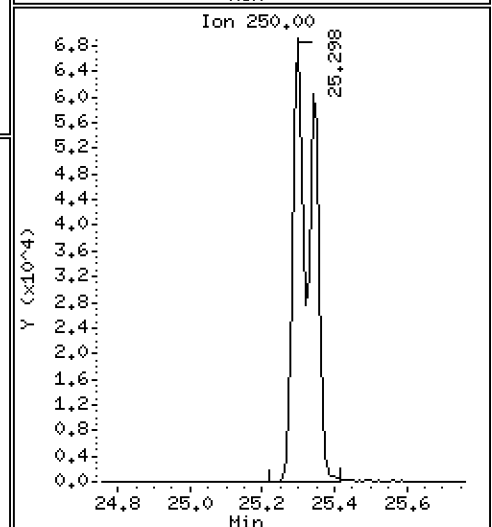
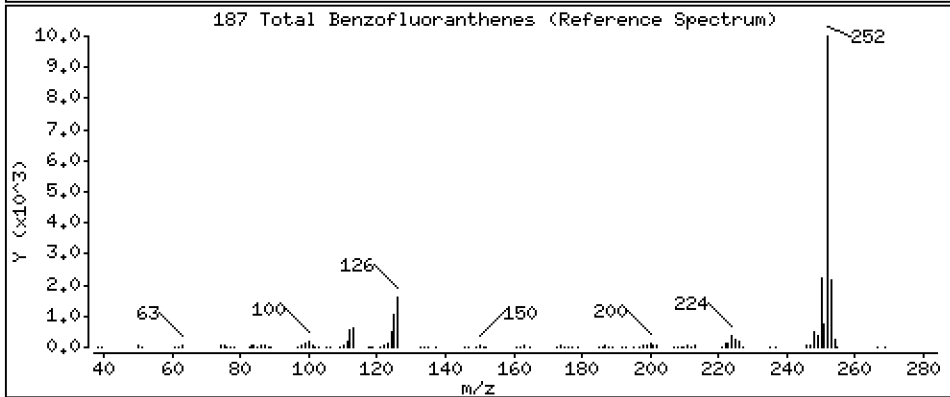
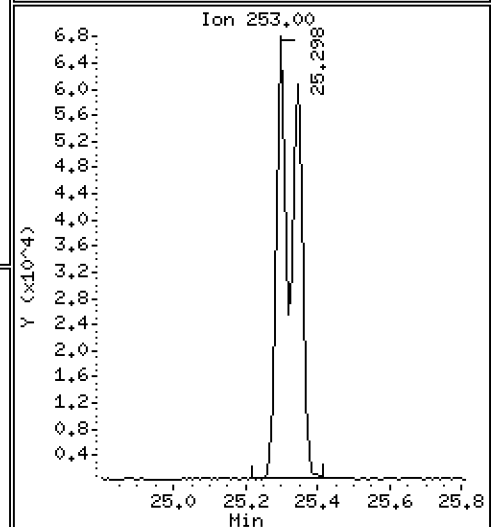
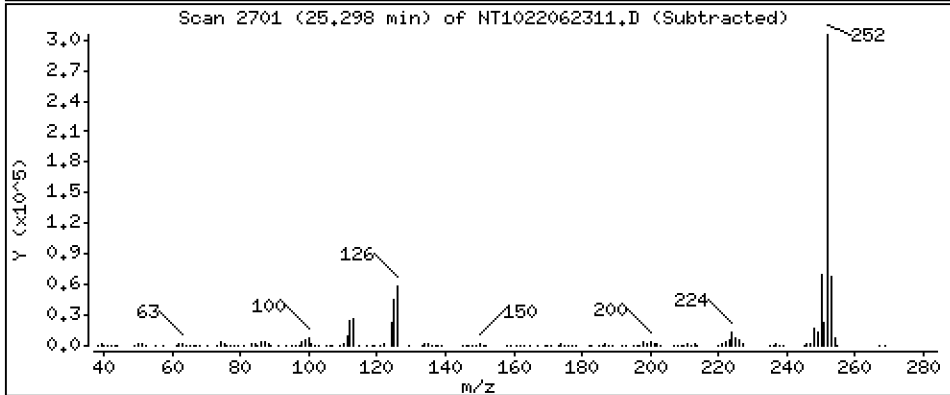
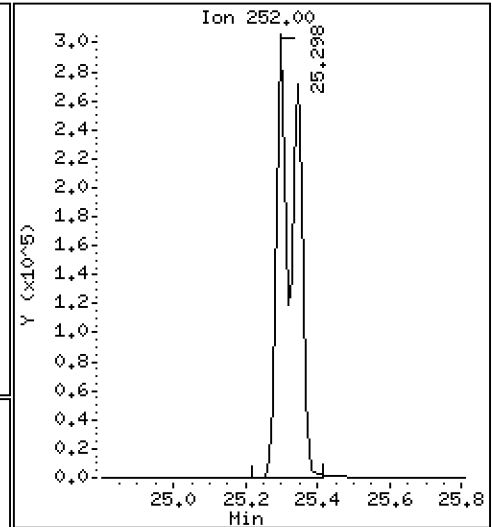
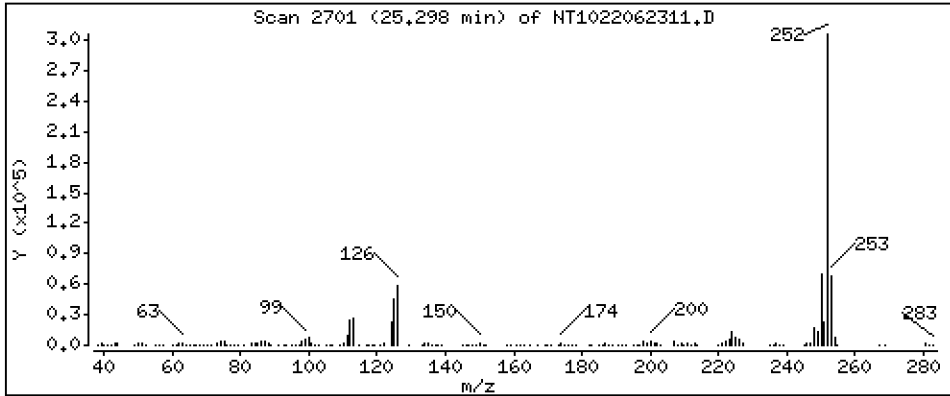
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,832 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

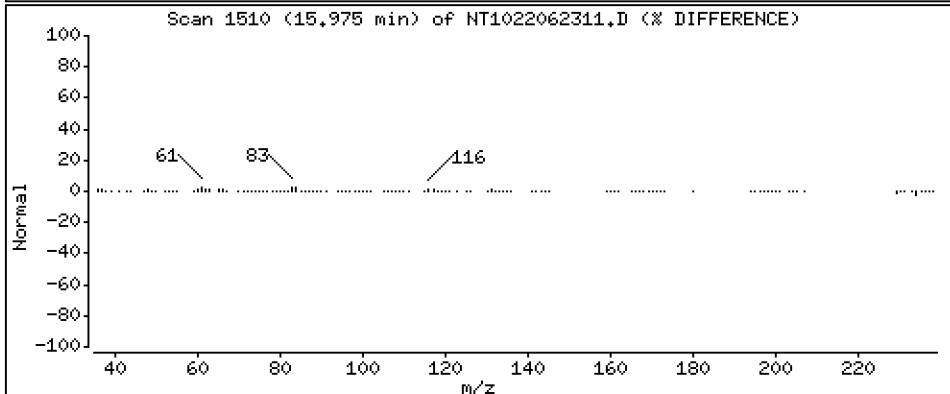
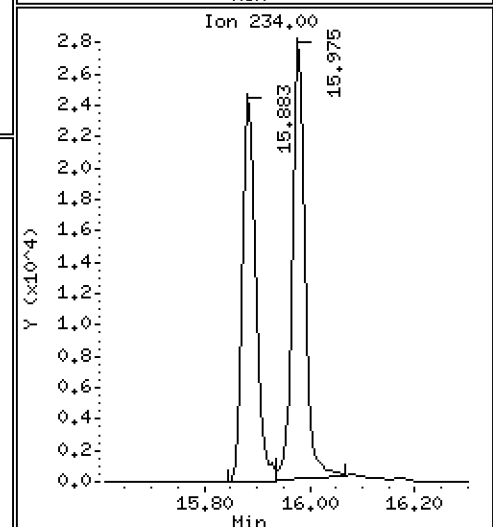
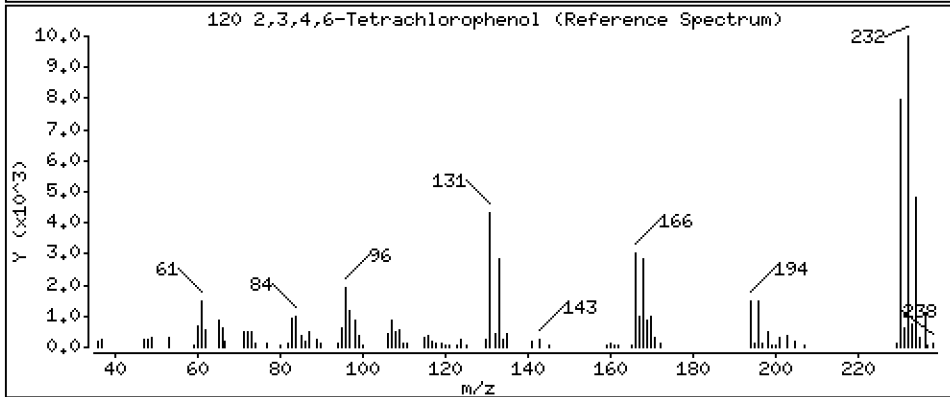
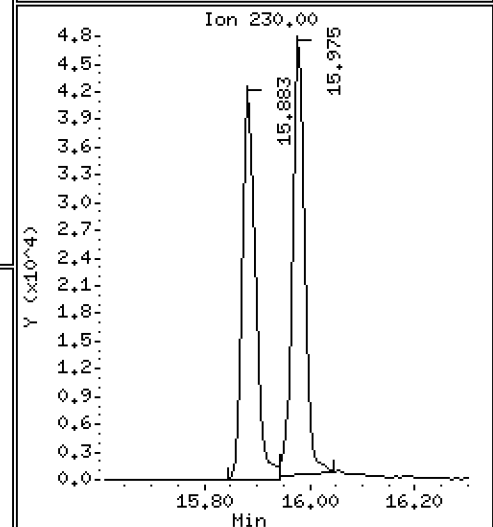
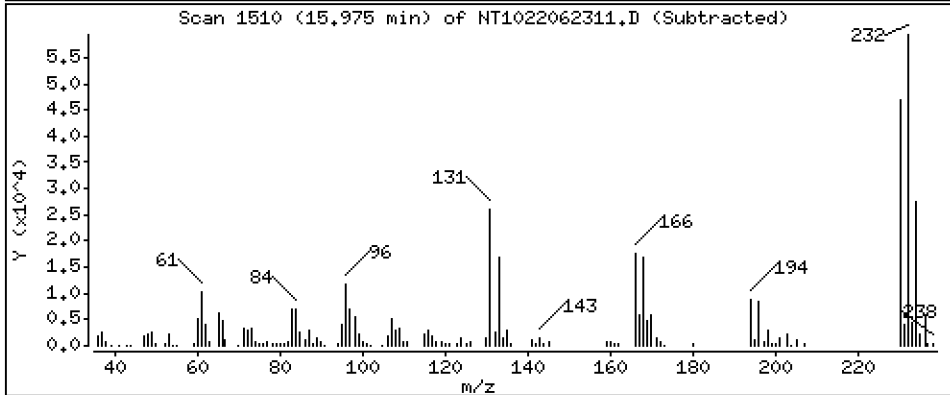
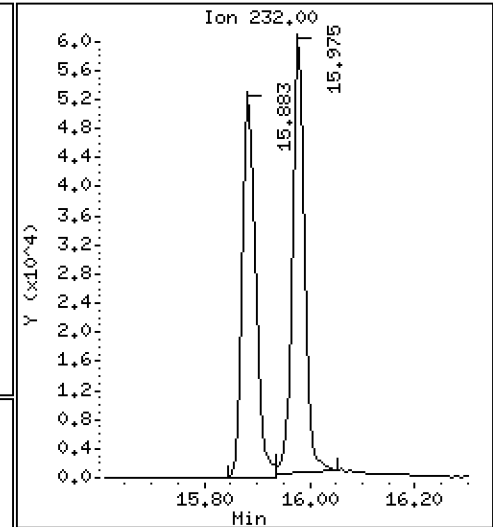
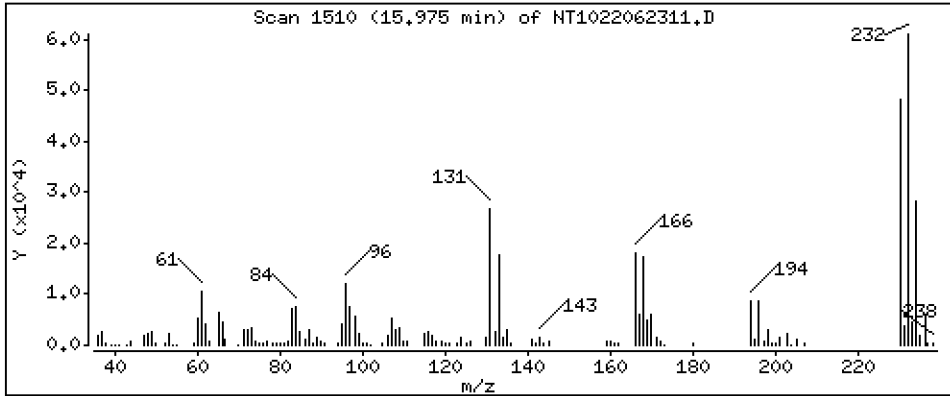
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,000 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220623.b\NT1022062311.D
 Lab Smp Id: SKF0270-SCV1
 Inj Date : 23-JUN-2022 15:20
 Operator : VTS
 Smp Info : SKF0270-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Meth Date : 24-Jun-2022 08:38 yev
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.898	6.891	(0.757)	447953	8.01867	8.019
\$ 2 Phenol-d5	99		8.482	8.475	(0.930)	653204	7.88040	7.880
3 Phenol	94		8.506	8.498	(0.933)	370864	5.13458	5.135
\$ 5 2-Chlorophenol-d4	132		8.753	8.745	(0.960)	431694	7.58399	7.584
4 Bis(2-Chloroethyl)ether	93		8.660	8.645	(0.950)	301080	5.79201	5.792
6 2-Chlorophenol	128		8.784	8.776	(0.963)	299371	5.19893	5.199
7 1,3-Dichlorobenzene	146		9.055	9.039	(0.993)	312260	5.01369	5.014
* 8 1,4-Dichlorobenzene-d4	152		9.117	9.101	(1.000)	152987	4.00000	
9 1,4-Dichlorobenzene	146		9.148	9.132	(1.003)	260034	5.29668	5.297
\$ 10 1,2-Dichlorobenzene-d4	152		9.474	9.466	(1.039)	174442	4.97336	4.973
12 1,2-Dichlorobenzene	146		9.505	9.489	(1.043)	265143	5.08744	5.087
11 Benzyl alcohol	108		9.380	9.373	(1.029)	157701	5.48088	5.481
14 2,2'-oxybis(1-Chloropropane)	121		9.683	9.676	(1.062)	87054	7.06310	7.063
13 2-Methylphenol	108		9.613	9.606	(1.054)	197804	4.44171	4.442
17 Hexachloroethane	117		10.095	10.079	(1.107)	115905	5.29620	5.296
16 N-Nitroso-di-n-propylamine	70		9.939	9.924	(1.090)	158444	5.11579	5.116
15 4-Methylphenol	108		9.893	9.877	(1.085)	218560	4.59234	4.592
\$ 18 Nitrobenzene-d5	82		10.203	10.196	(0.879)	266032	4.94671	4.947
19 Nitrobenzene	77		10.242	10.227	(0.883)	278529	5.13849	5.138
20 Isophorone	82		10.684	10.677	(0.921)	581184	7.41183	7.412
21 2-Nitrophenol	139		10.876	10.859	(0.937)	175569	5.12801	5.128
22 2,4-Dimethylphenol	107		10.936	10.919	(0.942)	196968	4.73580	4.736
23 Bis(2-Chloroethoxy)methane	93		11.123	11.106	(0.959)	270186	5.73516	5.735
24 Benzoic acid	105		11.106	11.140	(0.957)	143508	6.62128	6.621
25 2,4-Dichlorophenol	162		11.335	11.326	(0.977)	234378	5.54474	5.545
26 1,2,4-Trichlorobenzene	180		11.519	11.504	(0.993)	221798	4.88841	4.888
* 27 Naphthalene-d8	136		11.604	11.589	(1.000)	505418	4.00000	
28 Naphthalene	128		11.643	11.635	(1.003)	639883	4.94683	4.947
29 4-Chloroaniline	127		11.774	11.758	(1.015)	265378	4.64633	4.646
30 Hexachlorobutadiene	225		12.006	11.990	(1.035)	115567	5.33913	5.339
31 4-Chloro-3-methylphenol	107		12.756	12.741	(1.099)	244559	4.85270	4.853
32 2-Methylnaphthalene	142		13.050	13.035	(1.125)	670266	5.21373	5.214
33 Hexachlorocyclopentadiene	237		13.515	13.499	(0.887)	55412	3.32629	3.326

Compounds	QUANT SIG					CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
34 2,4,6-Trichlorophenol	196	13.677	13.662	(0.898)	170978	5.24236	5.242	
35 2,4,5-Trichlorophenol	196	13.755	13.739	(0.903)	172769	4.42727	4.427	
§ 36 2-Fluorobiphenyl	172	13.832	13.817	(0.908)	683222	5.26116	5.261	
37 2-Chloronaphthalene	162	14.049	14.033	(0.922)	625328	5.46235	5.462	
38 2-Nitroaniline	65	14.304	14.289	(0.939)	163591	5.34222	5.342	
39 Dimethylphthalate	163	14.738	14.714	(0.967)	500509	4.97347	4.973	
40 Acenaphthylene	152	14.923	14.908	(0.980)	750906	4.47637	4.476	
41 2,6-Dinitrotoluene	165	14.877	14.862	(0.977)	122846	5.25597	5.256	
* 42 Acenaphthene-d10	164	15.233	15.217	(1.000)	286969	4.00000		
43 3-Nitroaniline	138	15.163	15.148	(0.995)	147993	5.37872	5.379	
44 Acenaphthene	153	15.302	15.287	(1.005)	412233	4.93939	4.939	
45 2,4-Dinitrophenol	184	15.380	15.364	(1.010)	21043	2.02332	2.023	
46 Dibenzofuran	168	15.635	15.619	(1.026)	708335	5.34049	5.340	
47 4-Nitrophenol	109	15.511	15.488	(1.018)	40185	4.43466	4.435	
48 2,4-Dinitrotoluene	165	15.689	15.673	(1.030)	165818	5.30810	5.308	
50 Diethylphthalate	149	16.199	16.184	(1.063)	463792	5.37240	5.372	
49 Fluorene	166	16.354	16.331	(1.074)	728048	4.59382	4.594	
51 4-Chlorophenyl-phenylether	204	16.338	16.323	(1.073)	376282	5.40653	5.407	
52 4-Nitroaniline	138	16.439	16.423	(1.079)	140376	5.09381	5.094	
53 4,6-Dinitro-2-methylphenol	198	16.539	16.523	(0.904)	85433	4.31421	4.314	
54 N-Nitrosodiphenylamine	169	16.593	16.570	(0.907)	395951	4.98277	4.983	
§ 55 2,4,6-Tribromophenol	330	16.894	16.870	(1.109)	90754	6.94559	6.946	
56 4-Bromophenyl-phenylether	248	17.348	17.333	(0.948)	200887	5.45634	5.456	
57 Hexachlorobenzene	284	17.673	17.650	(0.966)	171847	5.11363	5.114	
58 Pentachlorophenol	266	18.037	18.014	(0.986)	24841	3.23849	3.238	
* 59 Phenanthrene-d10	188	18.300	18.277	(1.000)	505363	4.00000		
60 Phenanthrene	178	18.347	18.323	(1.003)	649666	4.89322	4.893	
61 Anthracene	178	18.439	18.416	(1.008)	683072	4.82784	4.828	
62 Carbazole	167	18.772	18.749	(1.026)	726709	5.56744	5.567	
63 Di-n-butylphthalate	149	19.584	19.554	(1.070)	1082696	5.32836	5.328	
64 Fluoranthene	202	20.753	20.722	(0.887)	1048305	4.19233	4.192	
65 Pyrene	202	21.178	21.147	(0.905)	1006992	4.57159	4.572	
§ 66 Terphenyl-d14	244	21.465	21.441	(0.918)	561068	4.66854	4.669	
67 Butylbenzylphthalate	149	22.401	22.371	(0.958)	338140	4.86029	4.860	
68 Benzo(a)anthracene	228	23.362	23.331	(0.999)	707995	4.85155	4.852	
* 69 Chrysene-d12	240	23.393	23.354	(1.000)	344386	4.00000		
70 3,3'-Dichlorobenzidine	252	23.315	23.284	(0.997)	559597	11.7678	11.77	
71 Chrysene	228	23.439	23.400	(1.002)	479984	4.72467	4.725	
72 bis(2-Ethylhexyl)phthalate	149	23.447	23.416	(0.959)	366071	5.06090	5.061	
* 134 Di-n-octylphthalate-d4	153	24.453	24.422	(1.000)	654412	4.00000		
73 Di-n-octylphthalate	149	24.469	24.430	(1.001)	818367	5.50195	5.502	
74 Benzo(b)fluoranthene	252	25.297	25.258	(0.969)	600074	4.95534	4.955	
75 Benzo(k)fluoranthene	252	25.344	25.305	(0.971)	612767	5.26231	5.262	
76 Benzo(a)pyrene	252	25.979	25.932	(0.996)	485665	4.90022	4.900	
* 77 Perylene-d12	264	26.095	26.048	(1.000)	267390	4.00000		
78 Indeno(1,2,3-cd)pyrene	276	28.884	28.814	(1.107)	503980	4.76253	4.763	
79 Dibenzo(a,h)anthracene	278	28.900	28.830	(1.107)	378728	4.67505	4.675	
80 Benzo(g,h,i)perylene	276	29.707	29.630	(1.138)	415473	4.91157	4.912	
90 N-Nitrosodimethylamine	74	4.720	4.720	(0.518)	244386	6.68622	6.686	
91 Aniline	93	Compound Not Detected.						
93 Benzidine	184	20.985	20.954	(0.897)	177079	3.48536	3.485	
103 Pyridine	79	4.743	4.736	(0.520)	326265	3.14892	3.149	
105 1-methylnaphthalene	142	13.275	13.252	(1.144)	651979	5.16205	5.162	
111 Azobenzene (1,2-DP-Hydrazine)	77	16.670	16.647	(1.094)	559493	4.88168	4.882	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.297	25.305	(0.969)	1110070	9.83152	9.832
120 2,3,4,6-Tetrachlorophenol	232	15.975	15.959	(1.049)	100330	3.99993	4.000

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-JUN-2022
 Lab File ID: NT1022062311.D Calibration Time: 16:38
 Lab Smp Id: SKF0270-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	149714	74857	299428	152987	2.19
27 Naphthalene-d8	491315	245658	982630	505418	2.87
42 Acenaphthene-d10	286589	143295	573178	286969	0.13
59 Phenanthrene-d10	498820	249410	997640	505363	1.31
69 Chrysene-d12	311295	155648	622590	344386	10.63
134 Di-n-octylphthala	577982	288991	1155964	654412	13.22
77 Perylene-d12	218550	109275	437100	267390	22.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.12	0.17
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.13
42 Acenaphthene-d10	15.22	14.72	15.72	15.23	0.10
59 Phenanthrene-d10	18.28	17.78	18.78	18.30	0.13
69 Chrysene-d12	23.35	22.85	23.85	23.39	0.17
134 Di-n-octylphthala	24.42	23.92	24.92	24.45	0.13
77 Perylene-d12	26.05	25.55	26.55	26.10	0.18

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

REVIEW SUMMARY FOR FILE - NT1022062311.D

Lab ID: SKF0270-SCV1
nt10.i, ABN.m, 23-JUN-2022 15:20

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022062313.D

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

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

Data File: \\target\share\chem3\nt10.1\20220623.1\NT1022062312.D

Date: 23-JUN-2022 15:59

Client ID:

Sample Info: SKF0270-ICB1

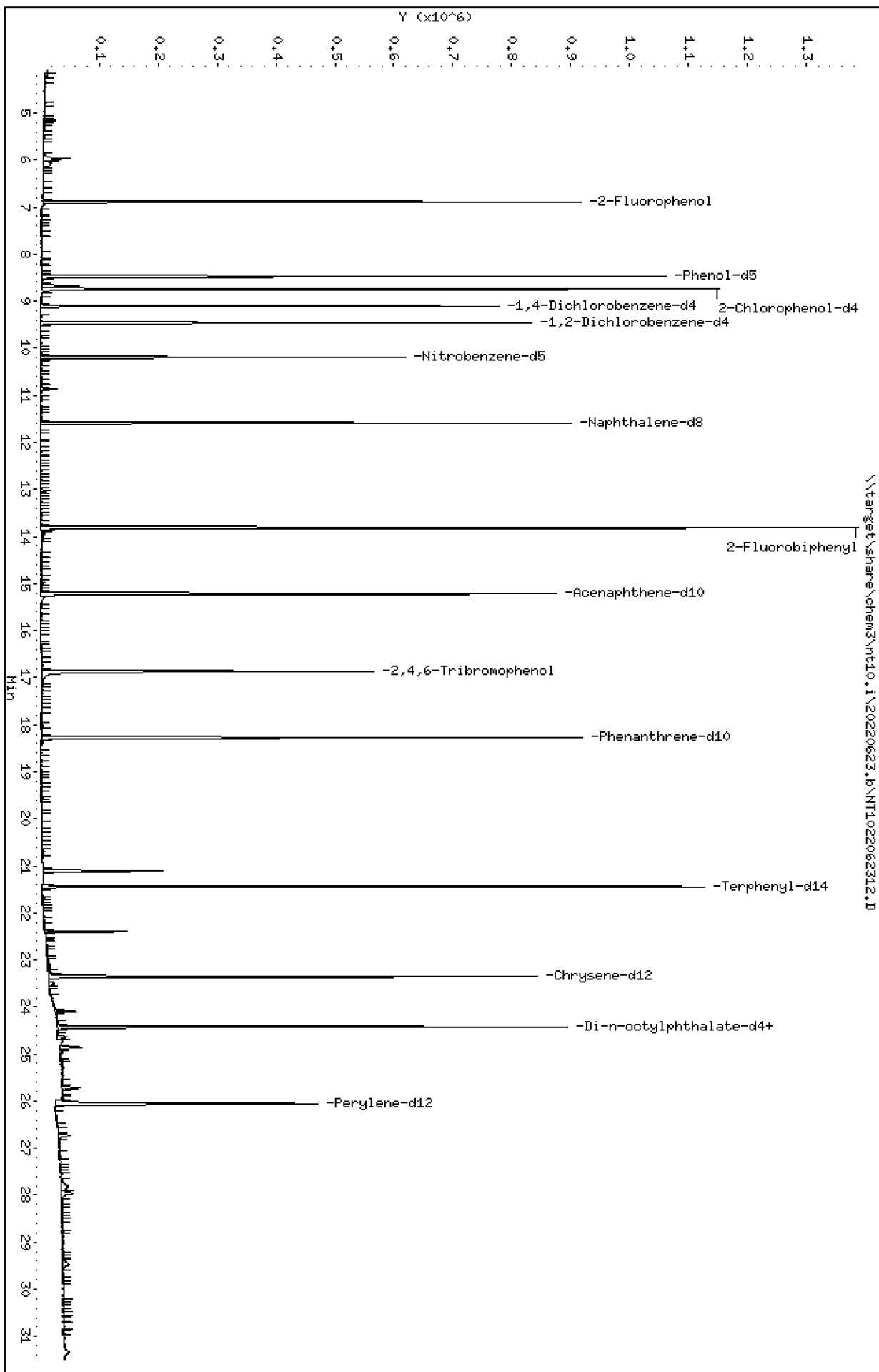
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20220623.1\NT1022062312.D



Date : 23-JUN-2022 15:59

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-ICB1

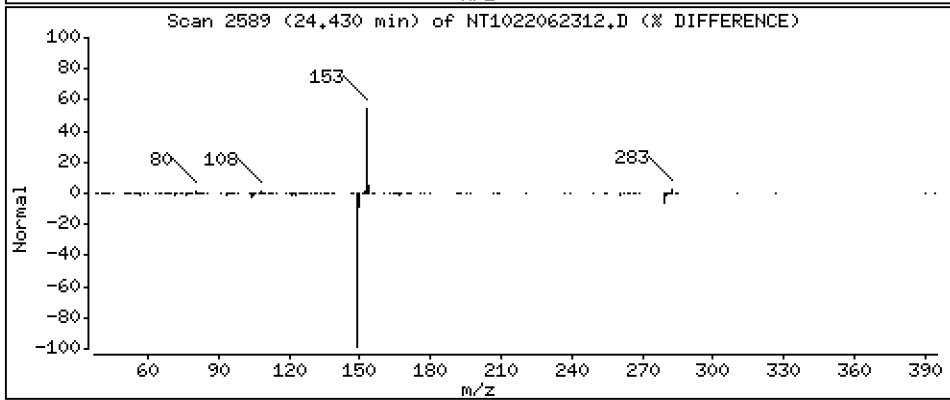
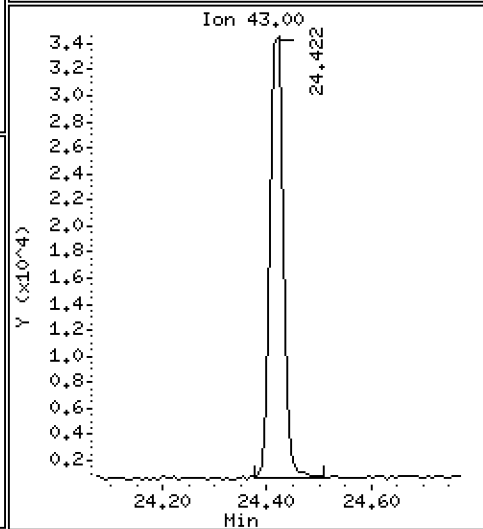
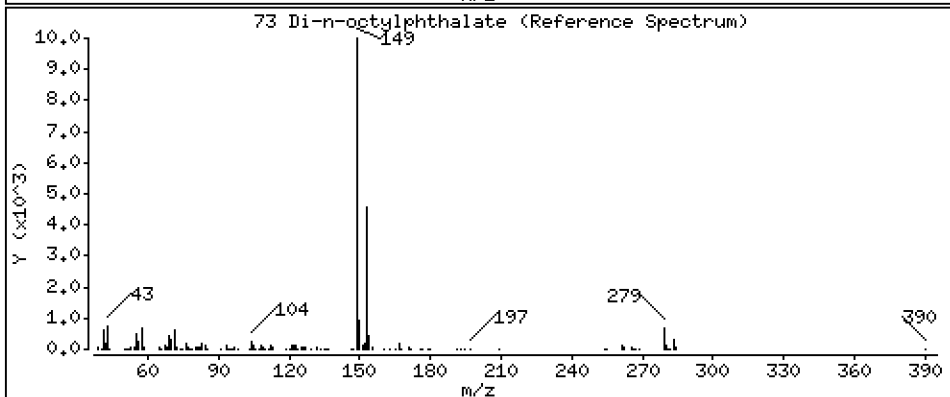
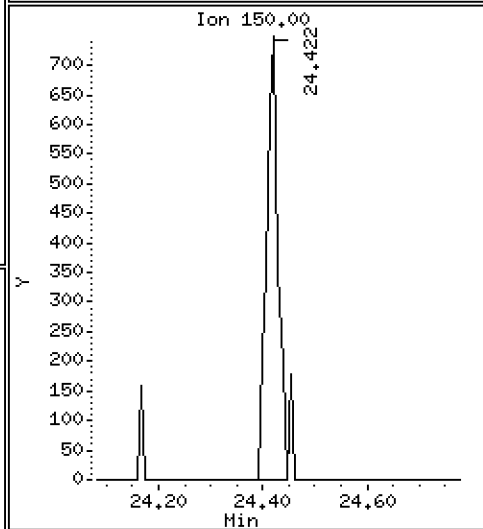
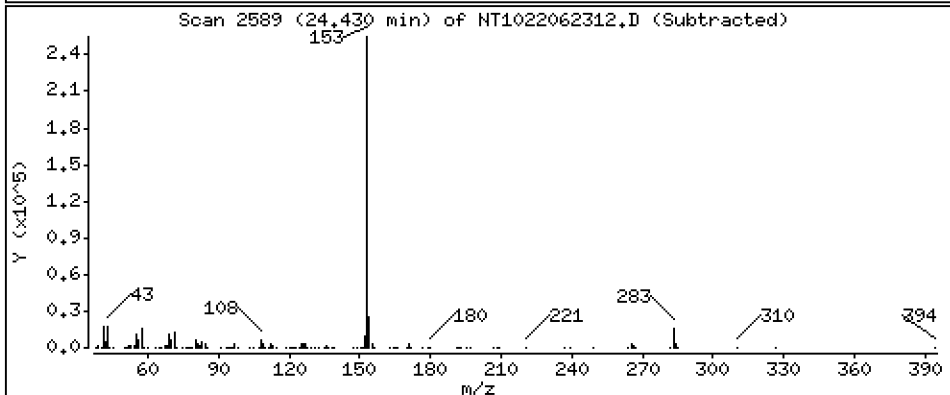
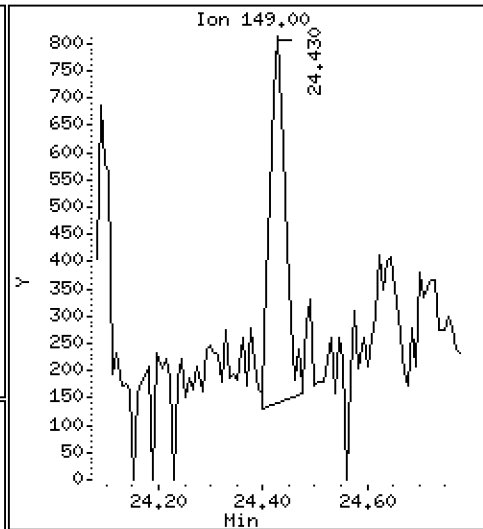
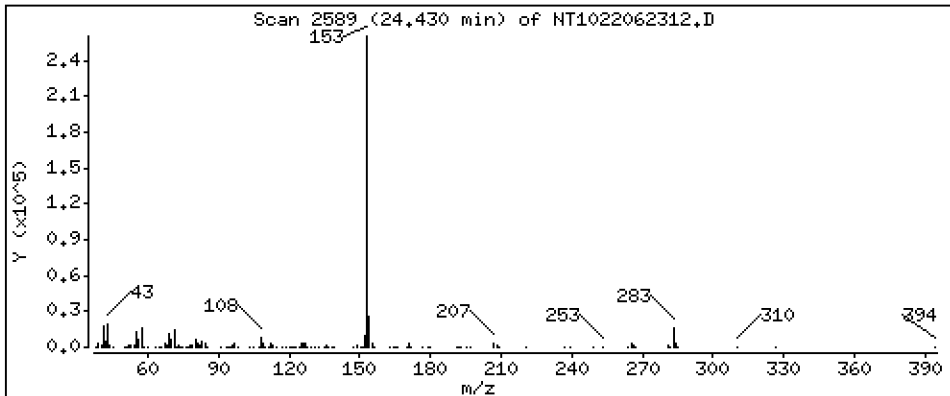
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,008243 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220623.b\NT1022062312.D
 Lab Smp Id: SKF0270-ICB1
 Inj Date : 23-JUN-2022 15:59
 Operator : VTS
 Smp Info : SKF0270-ICB1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Meth Date : 24-Jun-2022 08:38 yev
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.890	6.891	(0.757)	469441	6.15387	6.154
\$ 2 Phenol-d5	99		8.474	8.475	(0.931)	663298	5.86011	5.860
3 Phenol	94		Compound Not Detected.					
\$ 5 2-Chlorophenol-d4	132		8.745	8.745	(0.961)	566866	7.29288	7.293
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.101	9.101	(1.000)	208909	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.465	9.466	(1.040)	231512	4.83359	4.834
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		10.187	10.196	(0.879)	356699	4.62556	4.626
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.588	11.589	(1.000)	724721	4.00000	
28 Naphthalene	128		Compound Not Detected.					
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		Compound Not Detected.					
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.816	13.817	(0.908)	763394	4.66623	4.666
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152							
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.217	15.217	(1.000)	361524	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153							
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168							
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166							
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.870	16.870	(1.109)	111872	6.79769	6.798
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.277	18.277	(1.000)	629366	4.00000	
60 Phenanthrene	178							
61 Anthracene	178							
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202							
65 Pyrene	202							
\$ 66 Terphenyl-d14	244		21.441	21.441	(0.918)	651754	4.00251	4.003
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228							
* 69 Chrysene-d12	240		23.354	23.354	(1.000)	466619	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228							
72 bis(2-Ethylhexyl)phthalate	149							
* 134 Di-n-octylphthalate-d4	153		24.422	24.422	(1.000)	716301	4.00000	
73 Di-n-octylphthalate	149		24.430	24.430	(1.000)	1342	0.00824	0.008243
74 Benzo(b)fluoranthene	252							
75 Benzo(k)fluoranthene	252							
76 Benzo(a)pyrene	252							
* 77 Perylene-d12	264		26.056	26.048	(1.000)	359159	4.00000	
78 Indeno(1,2,3-cd)pyrene	276							
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276							
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142							
111 Azobenzene (1,2-DP-Hydrazine)	77							

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-JUN-2022
 Lab File ID: NT1022062312.D Calibration Time: 16:38
 Lab Smp Id: SKF0270-ICB1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	149714	74857	299428	208909	39.54
27 Naphthalene-d8	491315	245658	982630	724721	47.51
42 Acenaphthene-d10	286589	143295	573178	361524	26.15
59 Phenanthrene-d10	498820	249410	997640	629366	26.17
69 Chrysene-d12	311295	155648	622590	466619	49.90
134 Di-n-octylphthala	577982	288991	1155964	716301	23.93
77 Perylene-d12	218550	109275	437100	359159	64.34

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.10	-0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.59	-0.00
42 Acenaphthene-d10	15.22	14.72	15.72	15.22	-0.00
59 Phenanthrene-d10	18.28	17.78	18.78	18.28	-0.00
69 Chrysene-d12	23.35	22.85	23.85	23.35	-0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	-0.00
77 Perylene-d12	26.05	25.55	26.55	26.06	0.03

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

REVIEW SUMMARY FOR FILE - NT1022062312.D

Lab ID: SKF0270-ICB1
nt10.i, ABN.m, 23-JUN-2022 15:59

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022062313.D

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

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



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FF00062

Laboratory ID: SKF0270-SCV1

Sequence: SKF0270

Sequence Name: SCV 5.0

Standard ID: J008837

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	5.0000	5.1	2.7	20.00
bis(2-chloroethyl) ether	5.0000	5.8	15.8	20.00
2-Chlorophenol	5.0000	5.2	4.0	20.00
1,3-Dichlorobenzene	5.0000	5.0	0.3	20.00
1,4-Dichlorobenzene	5.0000	5.3	5.9	20.00
1,2-Dichlorobenzene	5.0000	5.1	1.7	20.00
Benzyl Alcohol	5.0000	5.5	9.6	20.00
2,2'-Oxybis(1-chloropropane)	5.0000	7.1	41.3 *	20.00
2-Methylphenol	5.0000	4.4	-11.2	20.00
Hexachloroethane	5.0000	5.3	5.9	20.00
N-Nitroso-di-n-Propylamine	5.0000	5.1	2.3	20.00
4-Methylphenol	5.0000	4.6	-8.2	20.00
Nitrobenzene	5.0000	5.1	2.8	20.00
Isophorone	5.0000	7.4	48.2 *	20.00
2-Nitrophenol	5.0000	5.1	2.6	20.00
2,4-Dimethylphenol	5.0000	4.7	-5.3	20.00
Bis(2-Chloroethoxy)methane	5.0000	5.7	14.7	20.00
2,4-Dichlorophenol	5.0000	5.5	10.9	20.00
1,2,4-Trichlorobenzene	5.0000	4.9	-2.2	20.00
Naphthalene	5.0000	4.9	-1.1	20.00
Benzoic acid	10.0000	6.6	-33.8 *	20.00
4-Chloroaniline	5.0000	4.6	-7.1	20.00
Hexachlorobutadiene	5.0000	5.3	6.8	20.00
4-Chloro-3-Methylphenol	5.0000	4.9	-2.9	20.00
2-Methylnaphthalene	5.0000	5.2	4.3	20.00
Hexachlorocyclopentadiene	5.0000	3.3	-33.5 *	20.00
2,4,6-Trichlorophenol	5.0000	5.2	4.8	20.00
2,4,5-Trichlorophenol	5.0000	4.4	-11.5	20.00
2-Chloronaphthalene	5.0000	5.5	9.2	20.00
2-Nitroaniline	5.0000	5.3	6.8	20.00
Acenaphthylene	5.0000	4.5	-10.5	20.00
Dimethylphthalate	5.0000	5.0	-0.5	20.00
2,6-Dinitrotoluene	5.0000	5.3	5.1	20.00
Acenaphthene	5.0000	4.9	-1.2	20.00



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FF00062

Laboratory ID: SKF0270-SCV1

Sequence: SKF0270

Sequence Name: SCV 5.0

Standard ID: J008837

3-Nitroaniline	5.0000	5.4	7.6	20.00
2,4-Dinitrophenol	5.0000	2.0	-59.5 *	20.00
Dibenzofuran	5.0000	5.3	6.8	20.00
4-Nitrophenol	5.0000	4.4	-11.3	20.00
2,4-Dinitrotoluene	5.0000	5.3	6.2	20.00
Fluorene	5.0000	4.6	-8.1	20.00
4-Chlorophenylphenyl ether	5.0000	5.4	8.1	20.00
Diethyl phthalate	5.0000	5.4	7.4	20.00
4-Nitroaniline	5.0000	5.1	1.9	20.00
4,6-Dinitro-2-methylphenol	5.0000	4.3	-13.7	20.00
N-Nitrosodiphenylamine	5.0000	5.0	-0.3	20.00
4-Bromophenyl phenyl ether	5.0000	5.5	9.1	20.00
Hexachlorobenzene	5.0000	5.1	2.3	20.00
Pentachlorophenol	5.0000	3.2	-35.2 *	20.00
Phenanthrene	5.0000	4.9	-2.1	20.00
Anthracene	5.0000	4.8	-3.4	20.00
Carbazole	5.0000	5.6	11.3	20.00
Di-n-Butylphthalate	5.0000	5.3	6.6	20.00
Fluoranthene	5.0000	4.2	-16.2	20.00
Pyrene	5.0000	4.6	-8.6	20.00
Butylbenzylphthalate	5.0000	4.9	-2.8	20.00
Benzo(a)anthracene	5.0000	4.9	-3.0	20.00
3,3'-Dichlorobenzidine	10.000	11.8	17.7	20.00
Chrysene	5.0000	4.7	-5.5	20.00
bis(2-Ethylhexyl)phthalate	5.0000	5.1	1.2	20.00
Di-n-Octylphthalate	5.0000	5.5	10.0	20.00
Benzo(a)fluoranthene, Total	10.000	9.8	-1.7	20.00
Benzo(a)pyrene	5.0000	4.9	-2.0	20.00
Indeno(1,2,3-cd)pyrene	5.0000	4.8	-4.7	20.00
Dibenzo(a,h)anthracene	5.0000	4.7	-6.5	20.00
Benzo(g,h,i)perylene	5.0000	4.9	-1.8	20.00
1-Methylnaphthalene	5.0000	5.2	3.2	20.00

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220623.16\NT1022062311.D

Date: 23-JUN-2022 15:20

Client ID:

Sample Info: SKF0270-SCW1

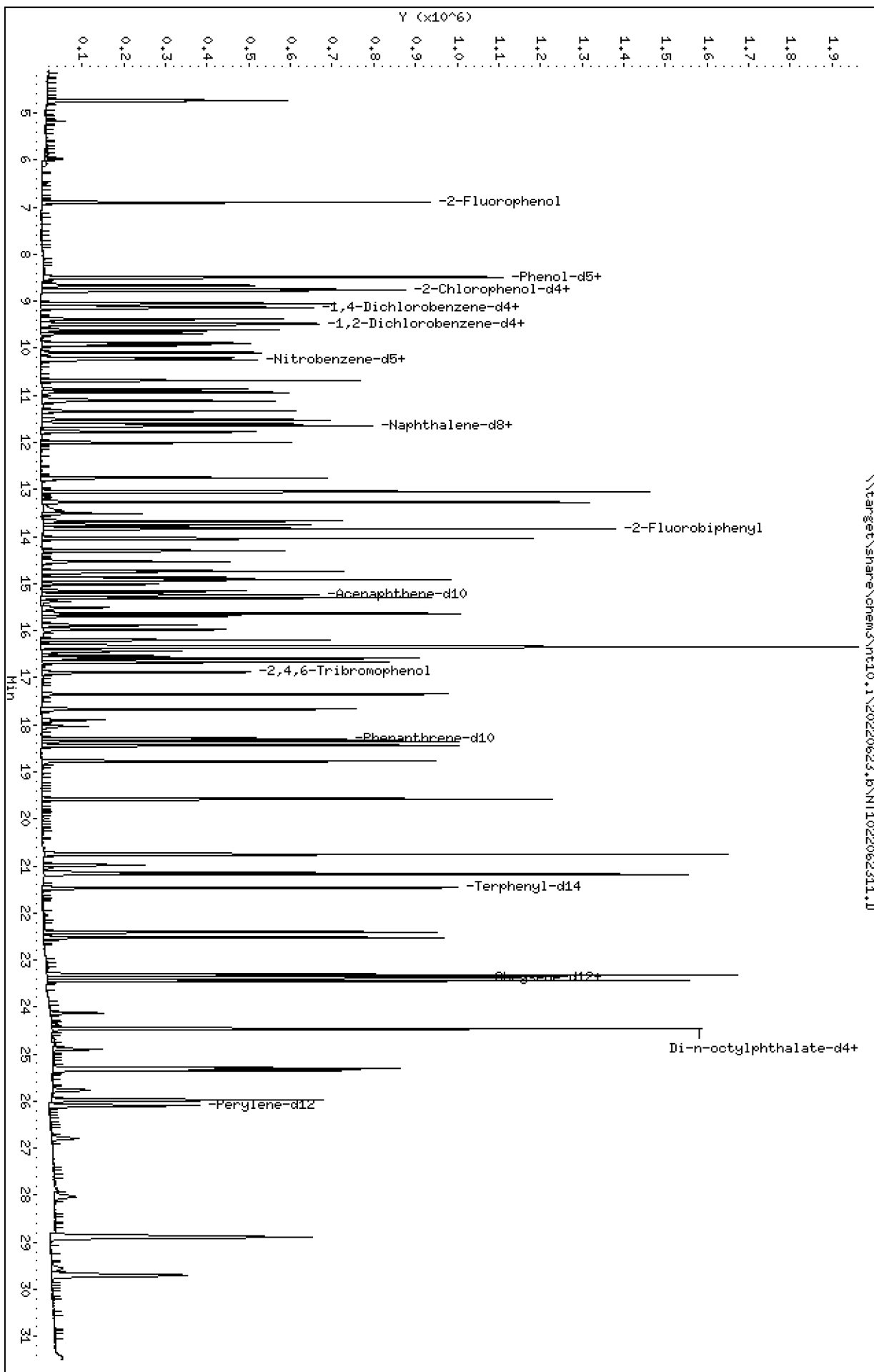
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

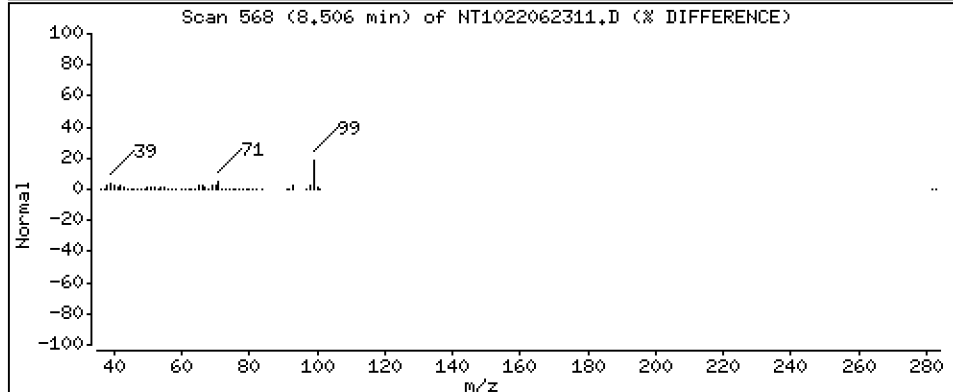
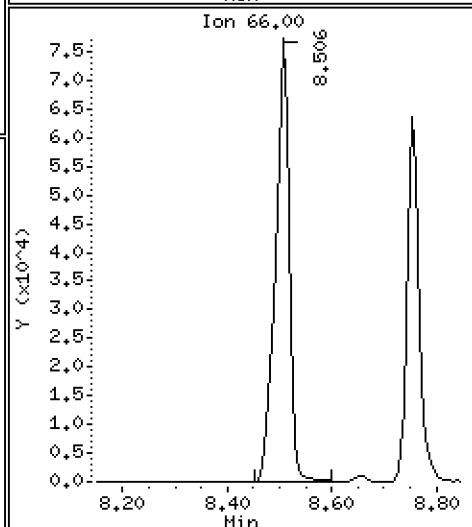
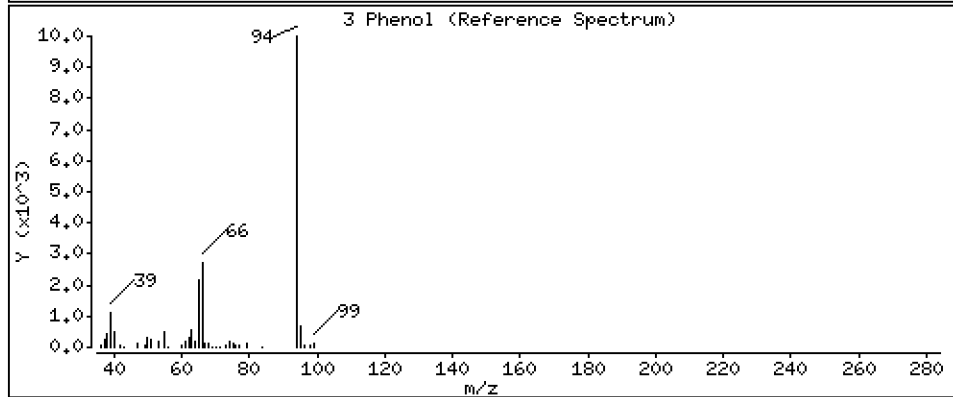
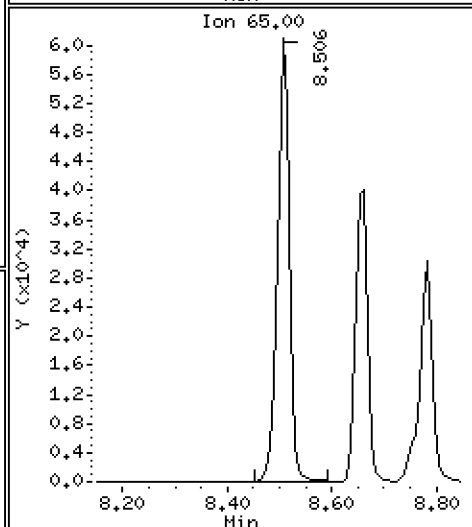
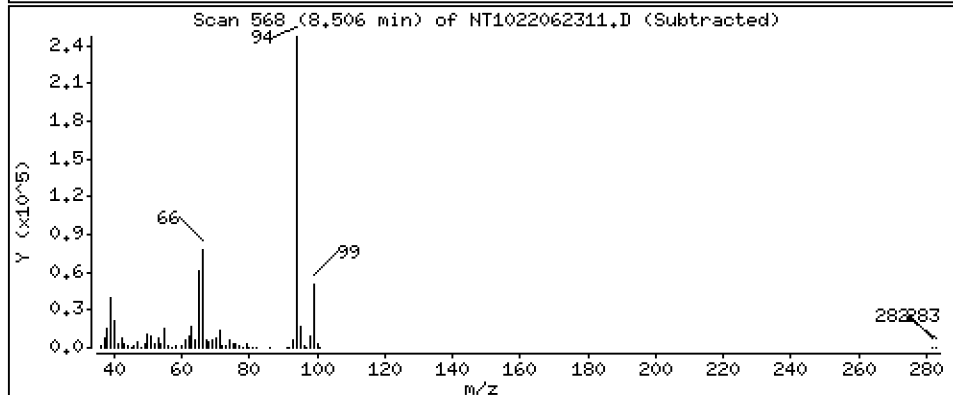
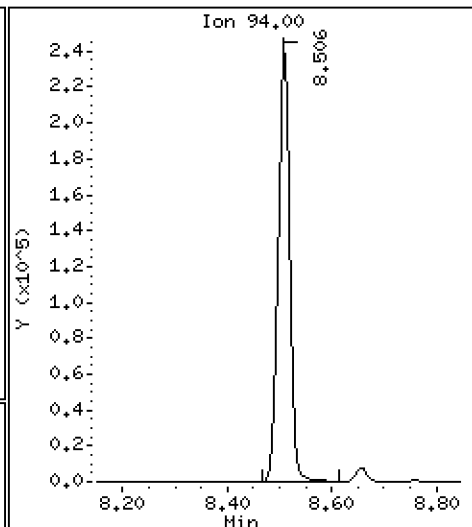
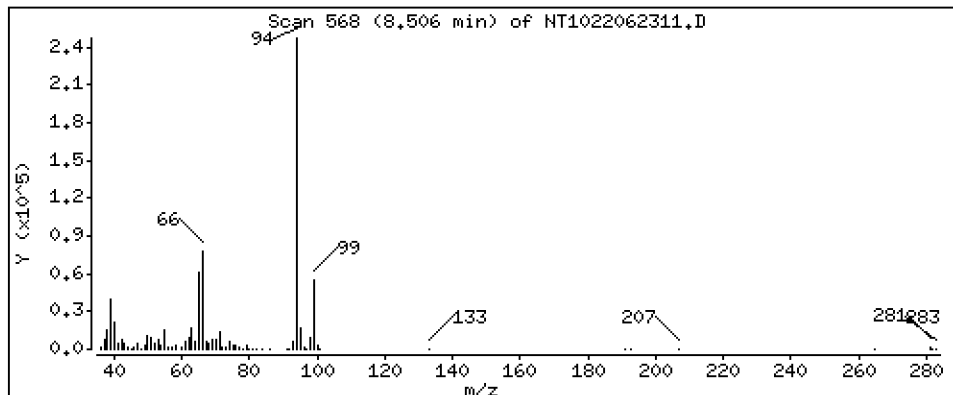
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 5,135 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

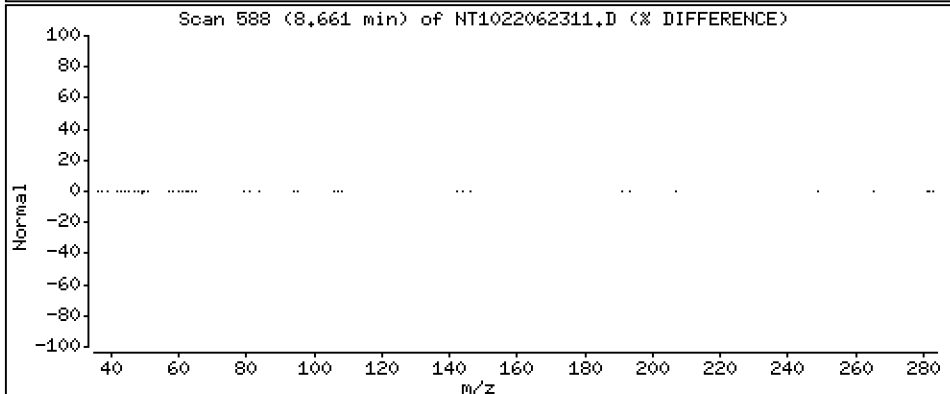
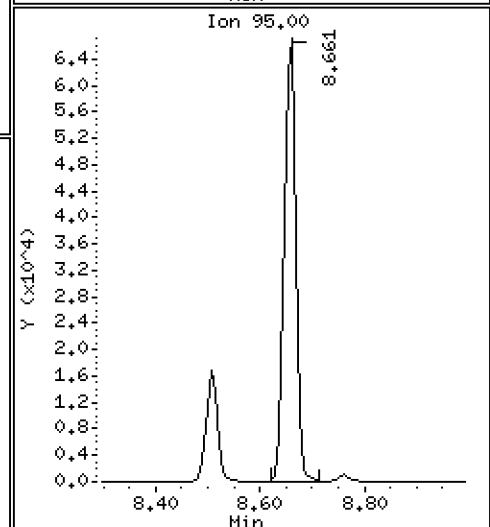
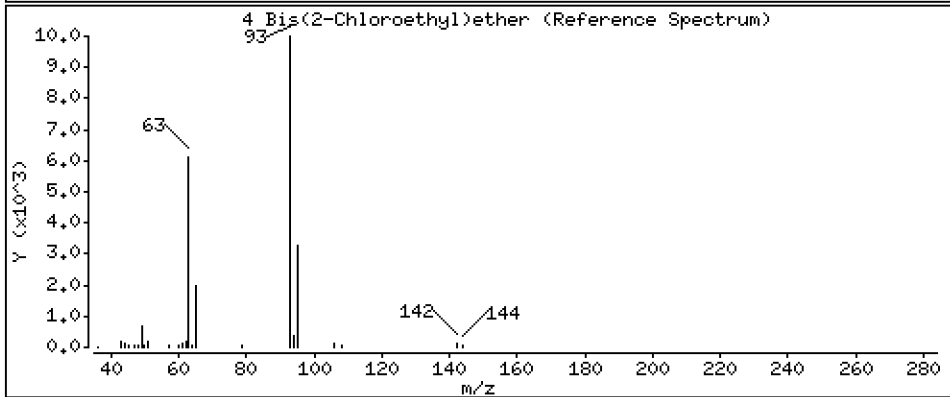
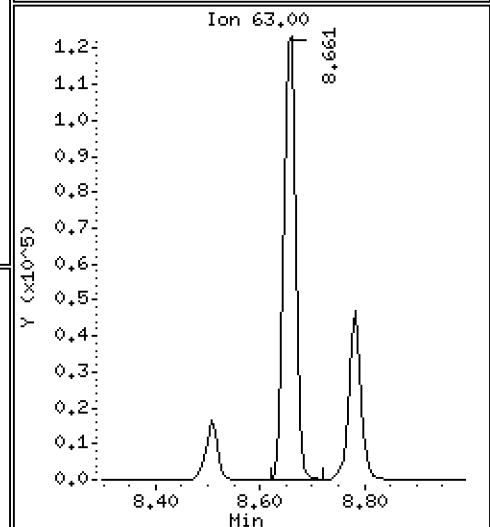
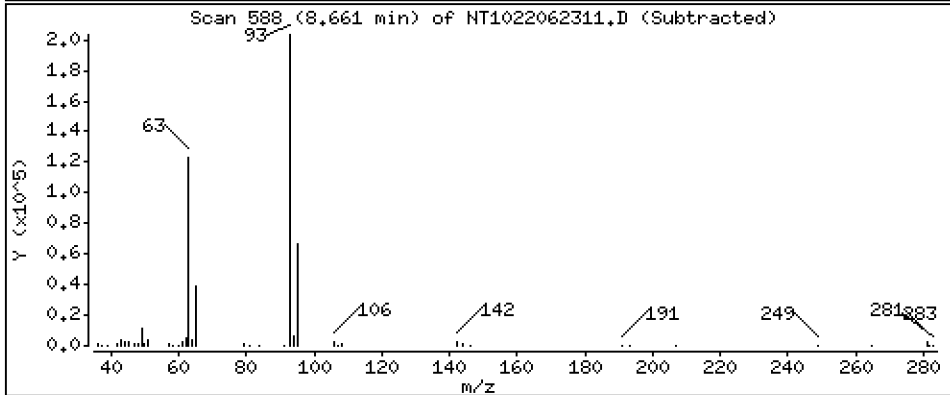
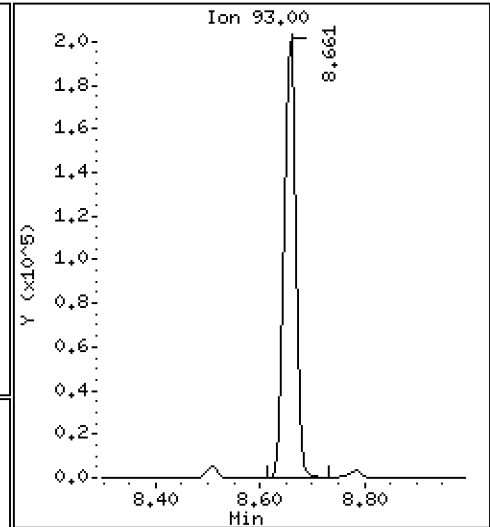
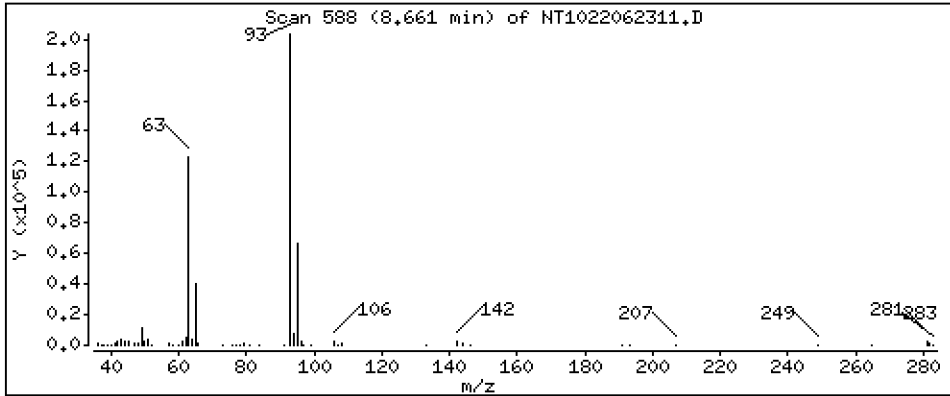
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,792 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

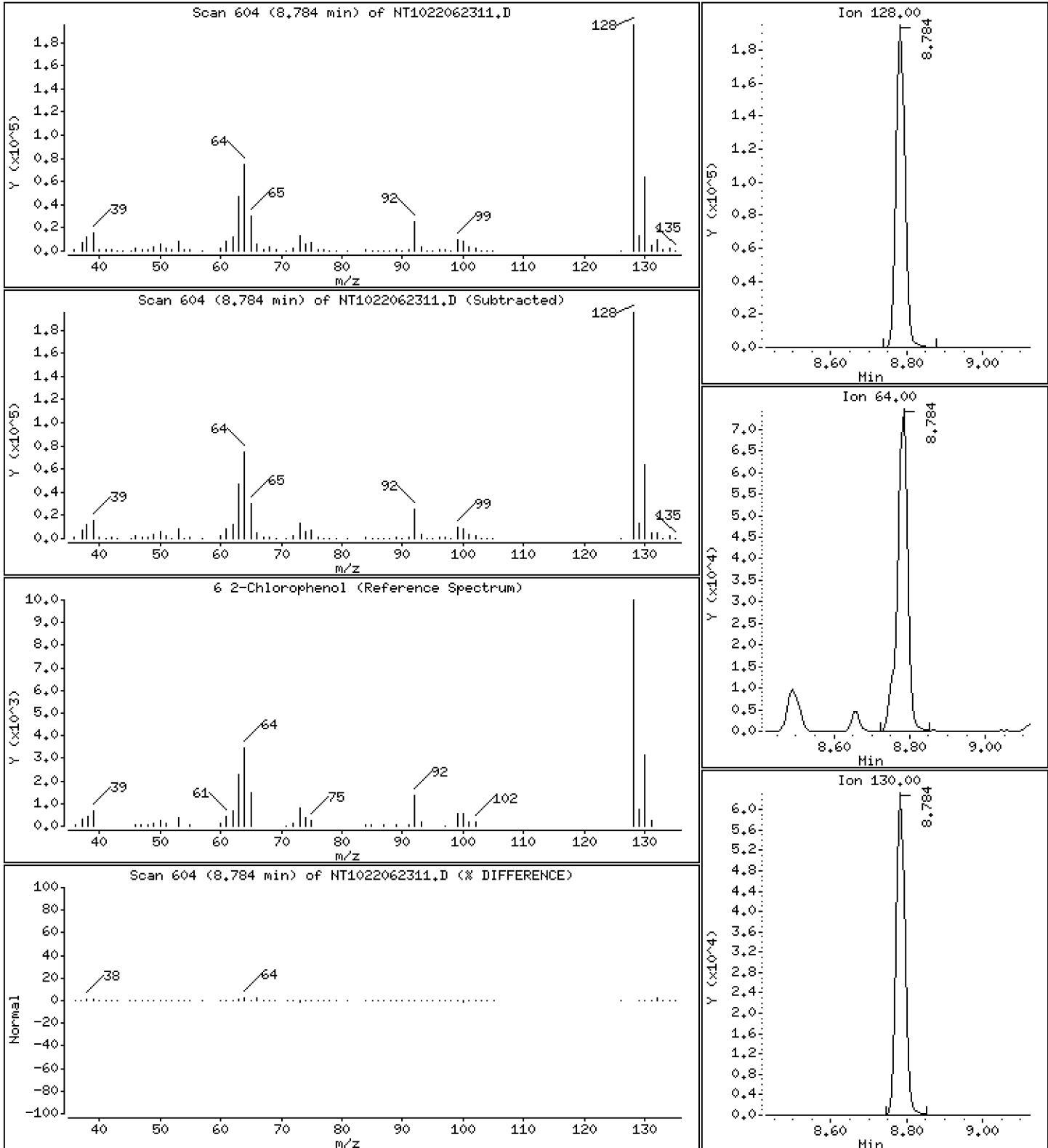
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 5,199 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

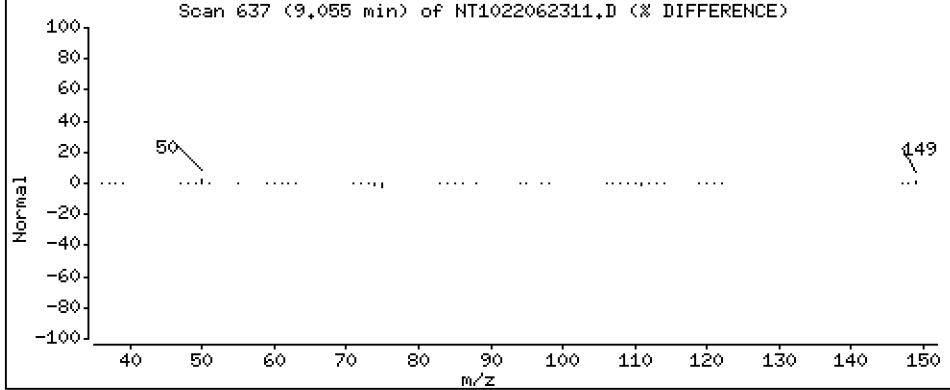
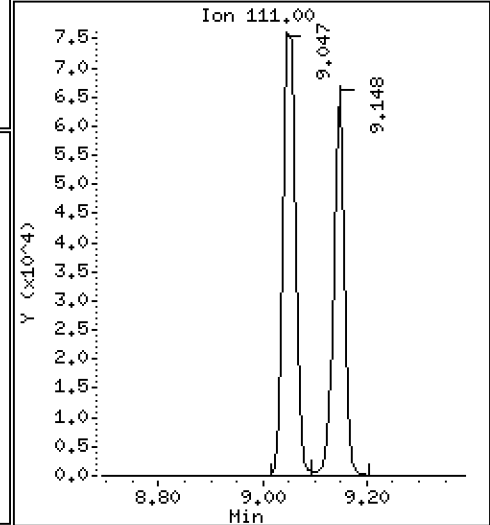
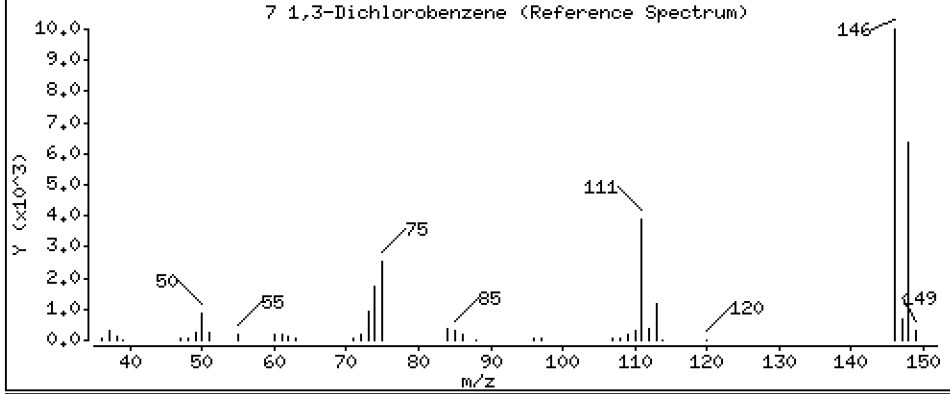
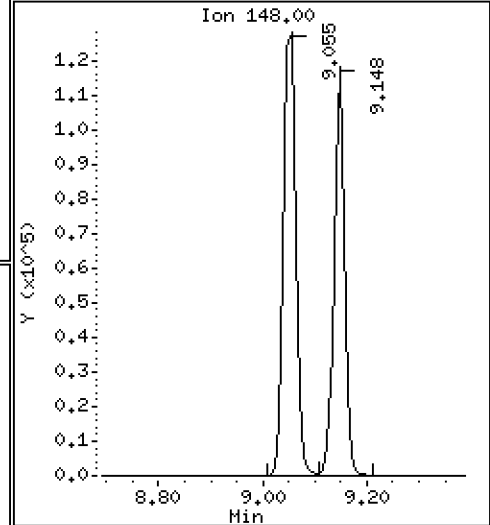
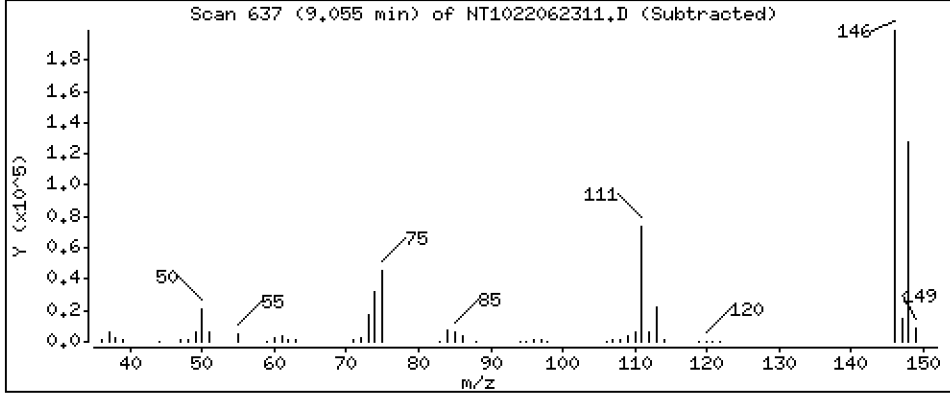
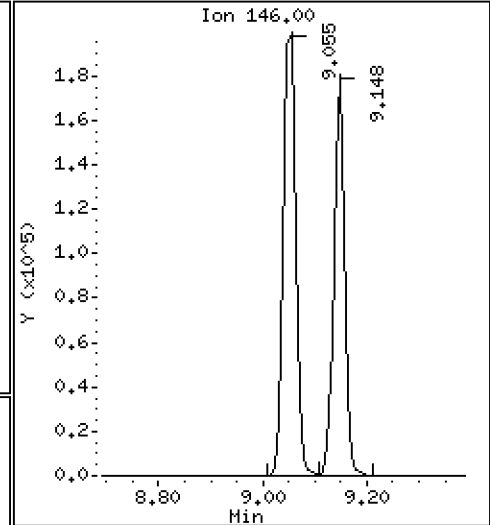
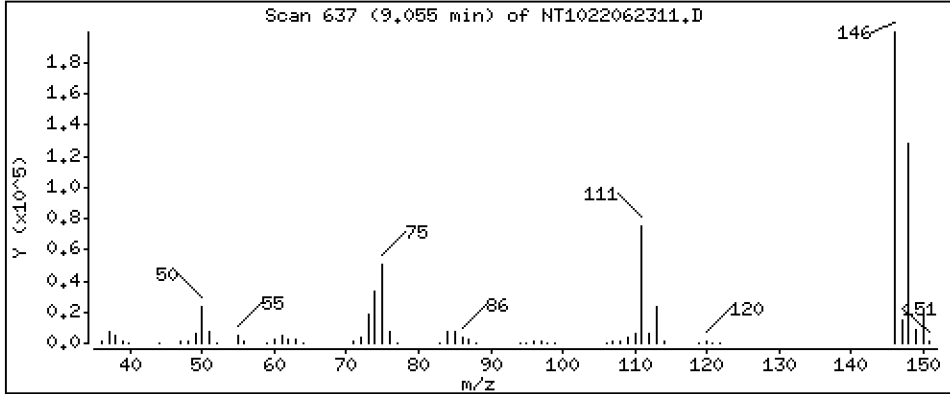
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 5,014 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

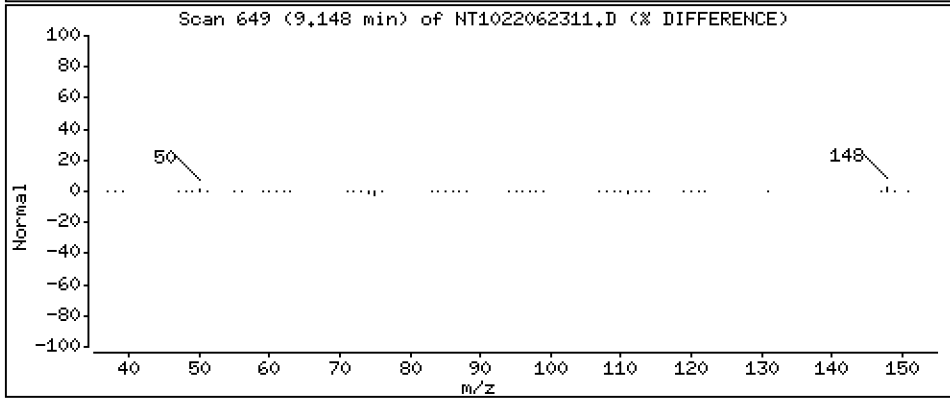
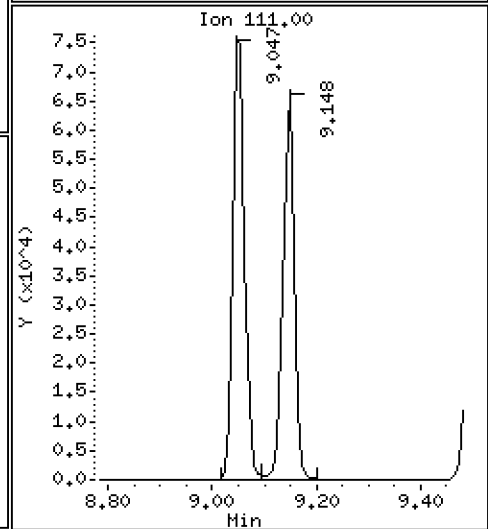
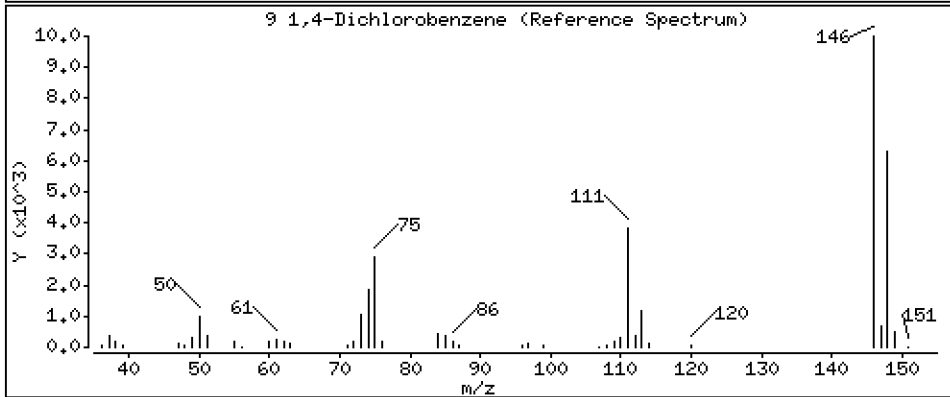
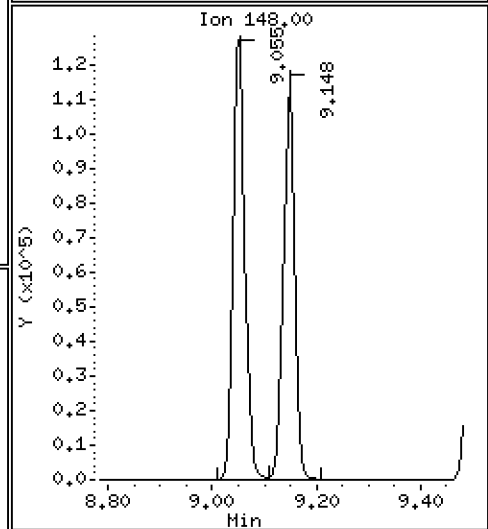
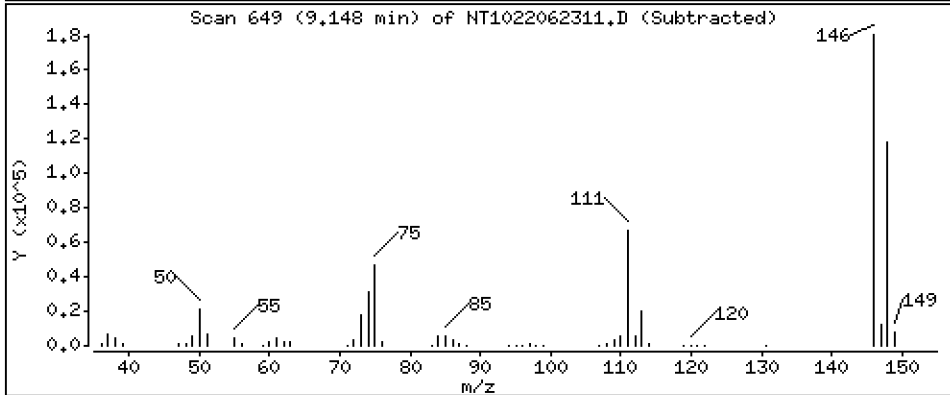
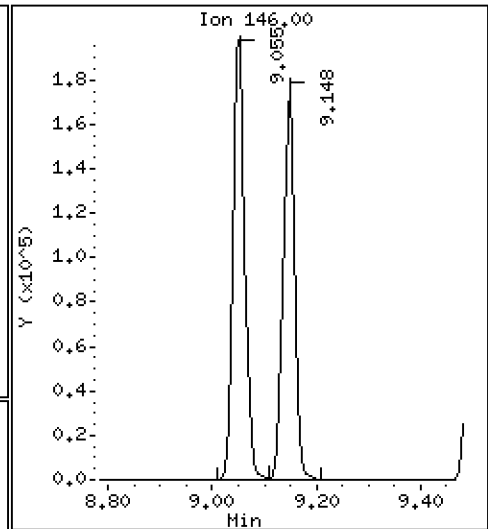
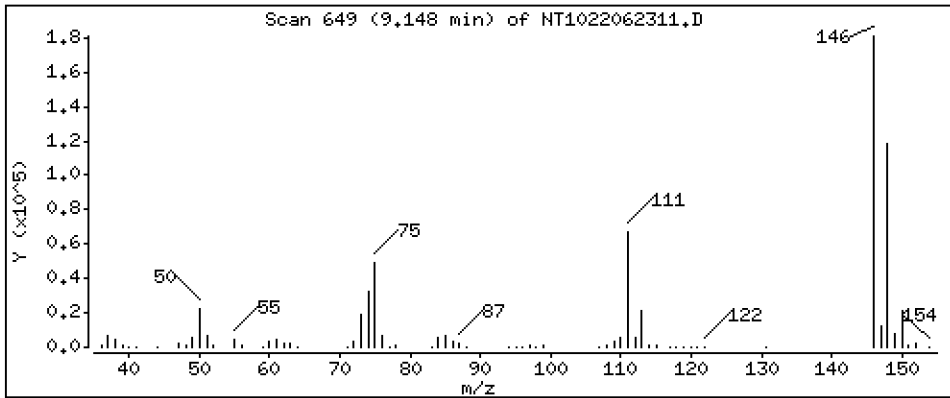
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 5,297 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

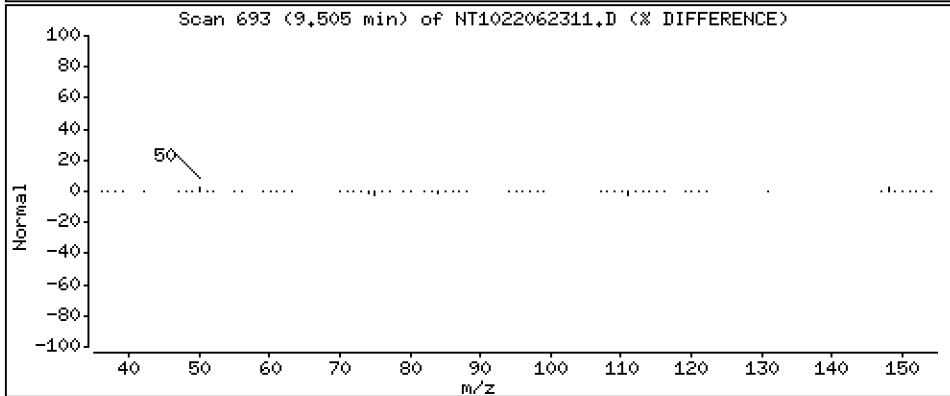
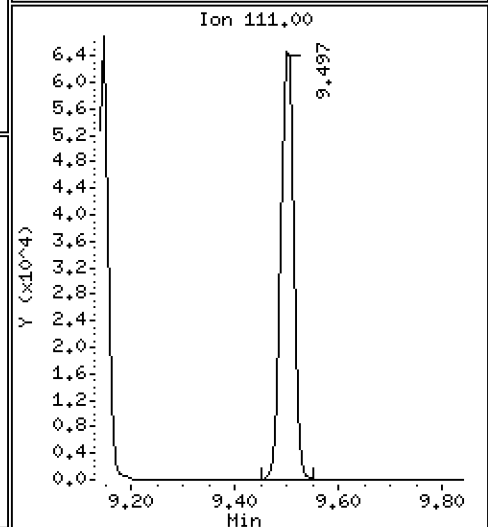
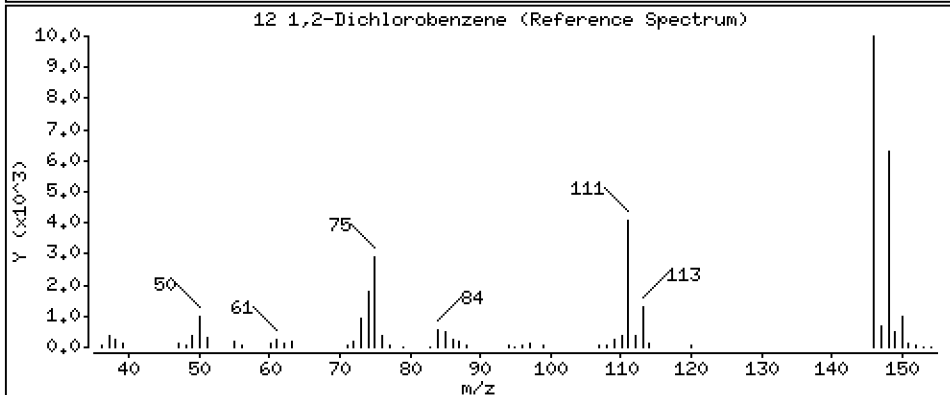
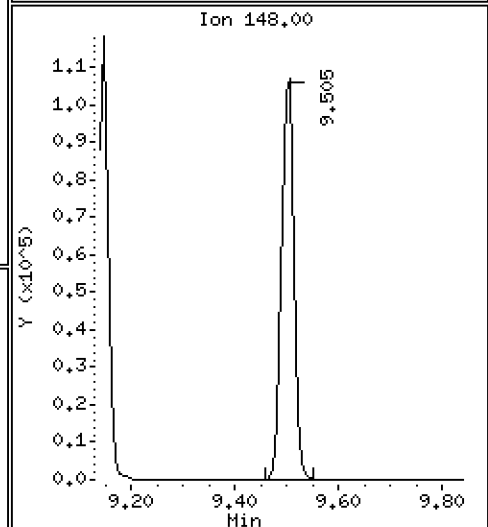
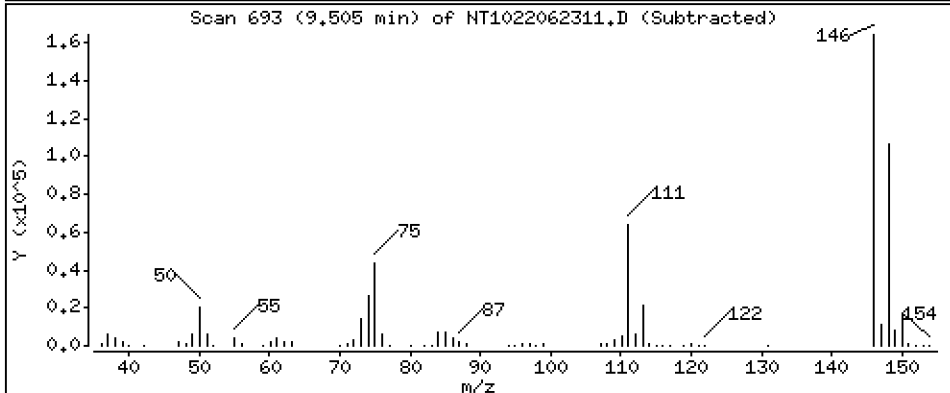
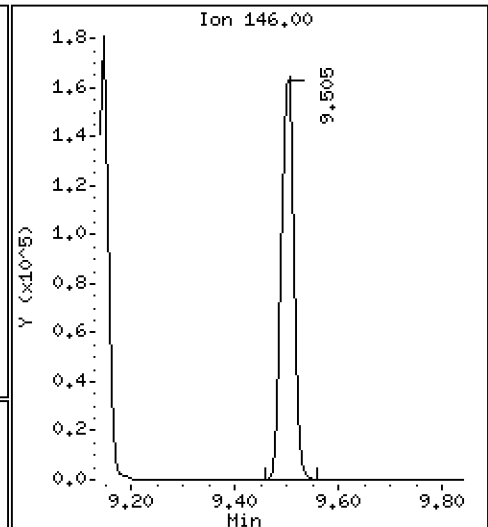
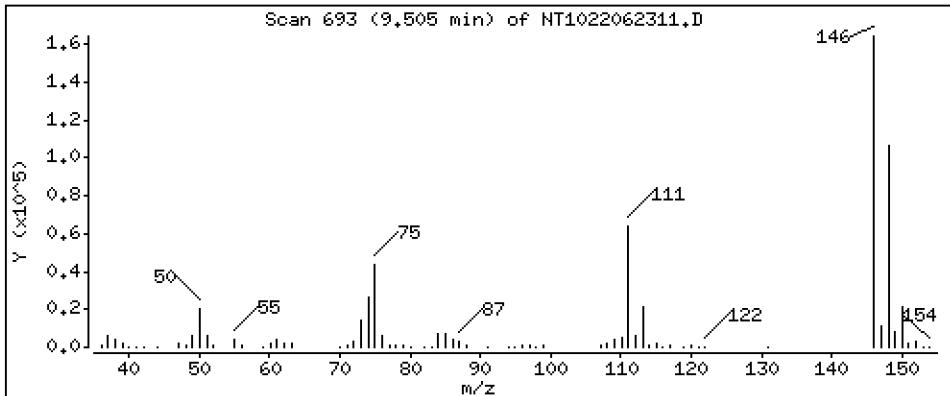
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 5,087 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

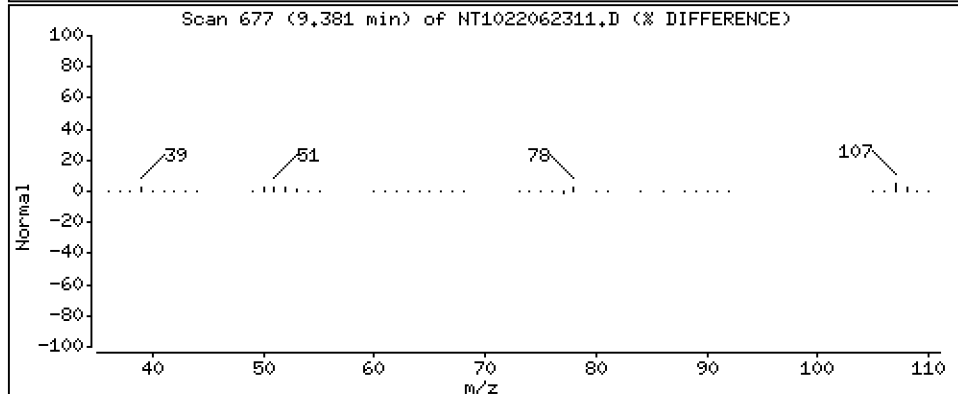
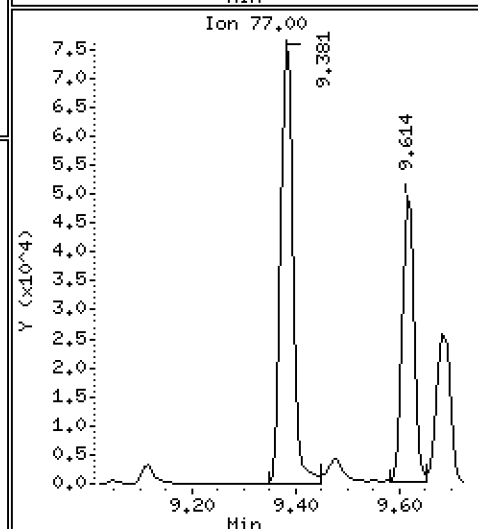
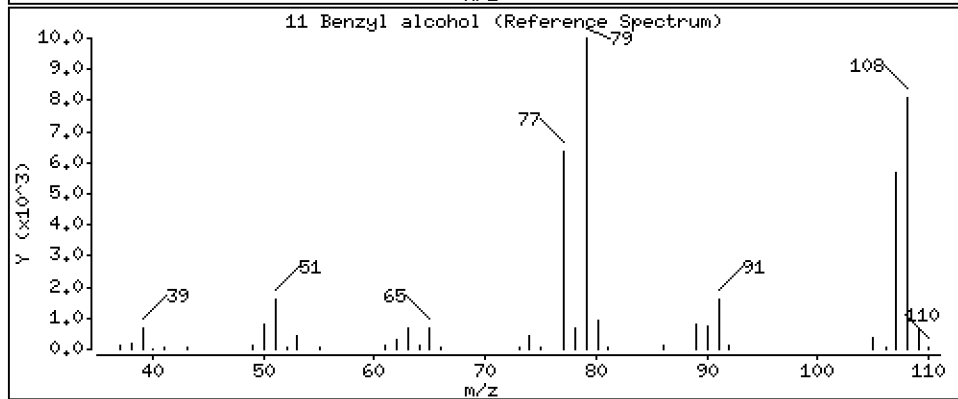
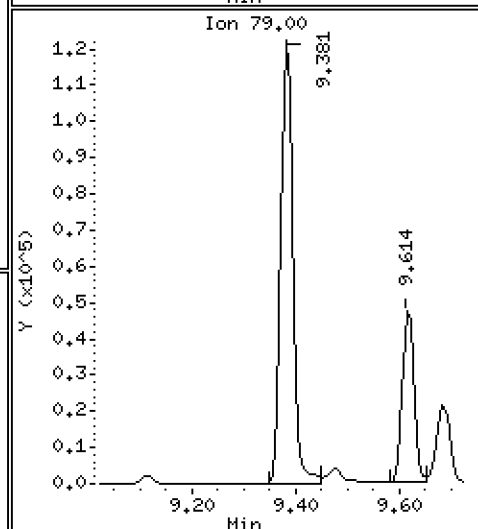
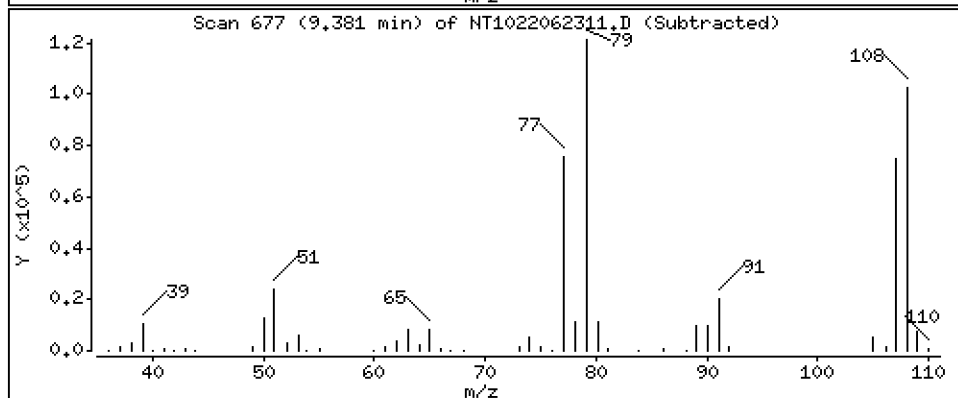
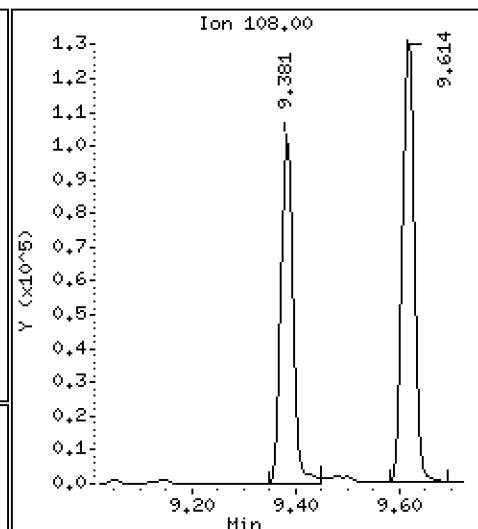
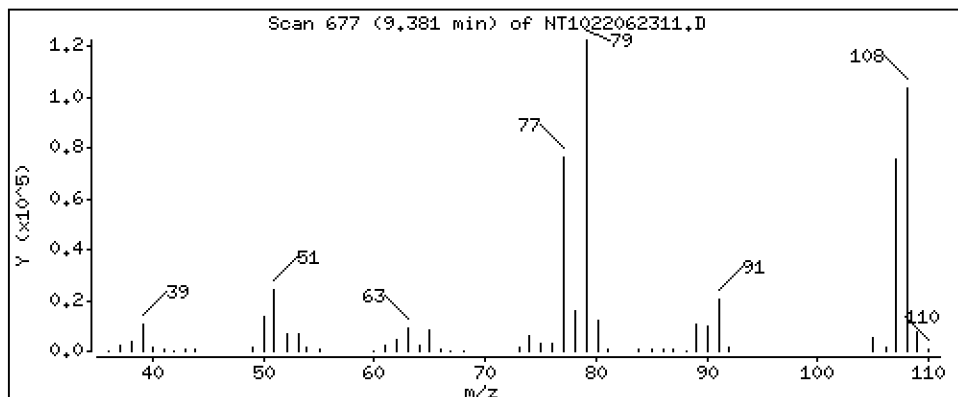
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 5.481 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

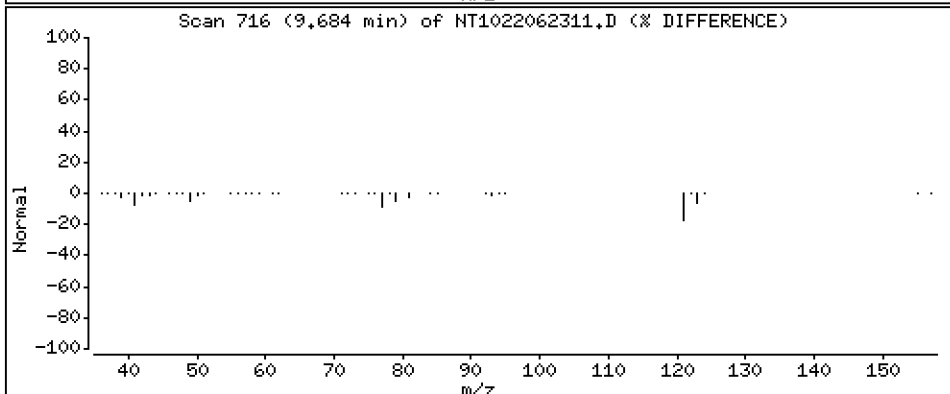
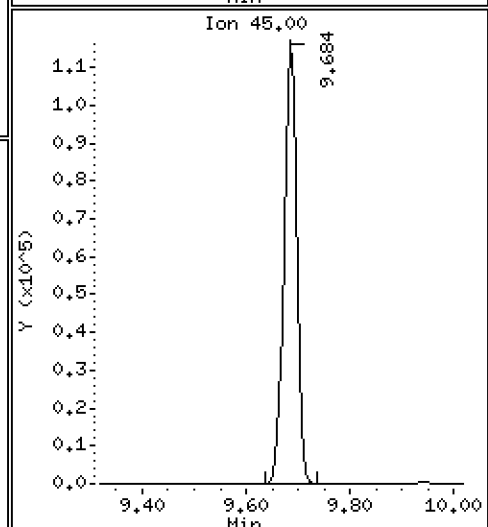
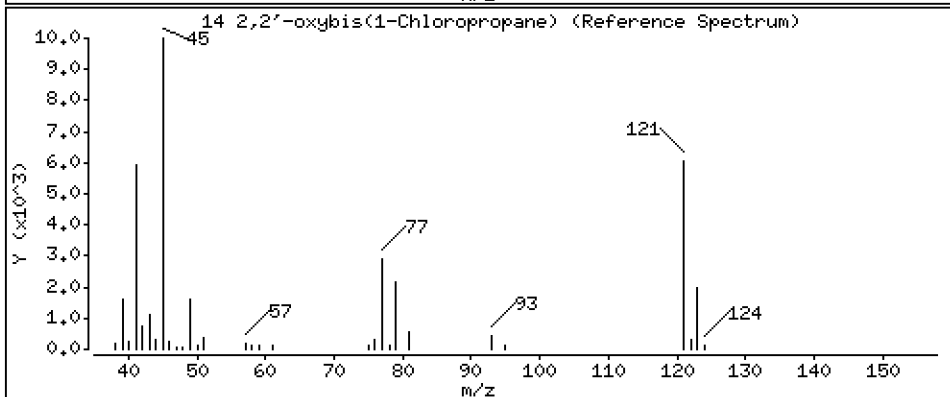
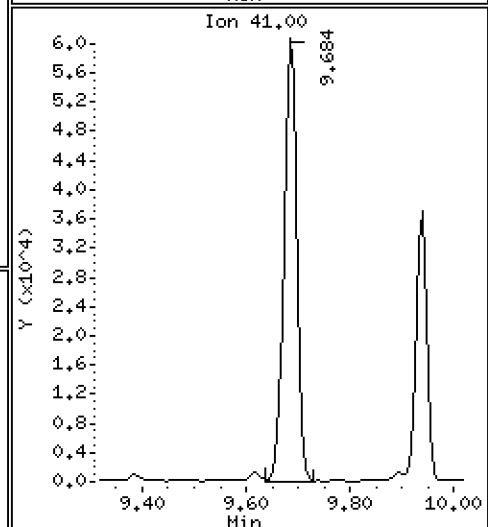
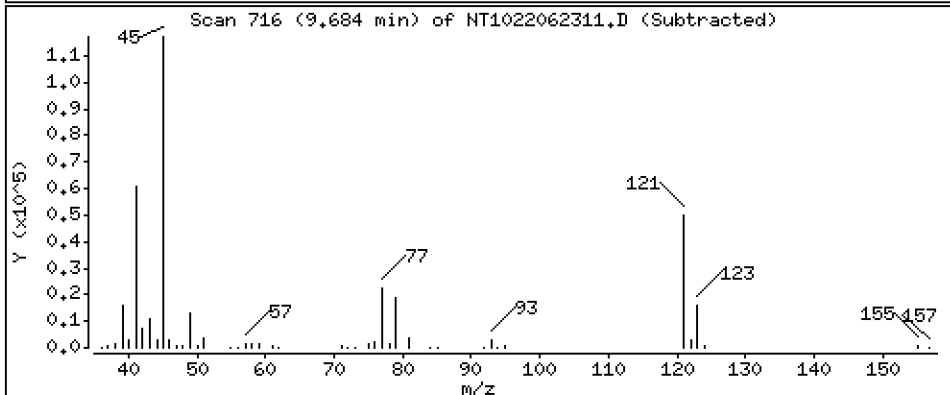
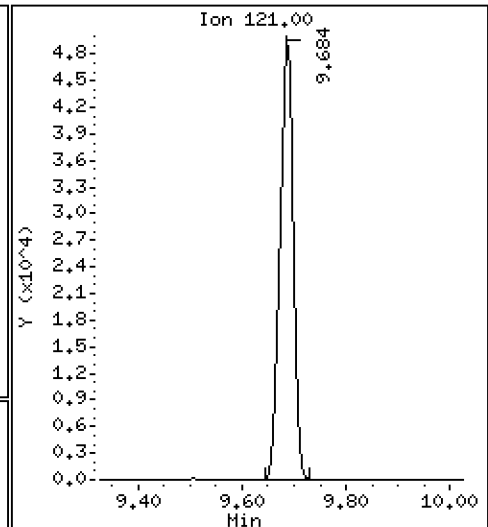
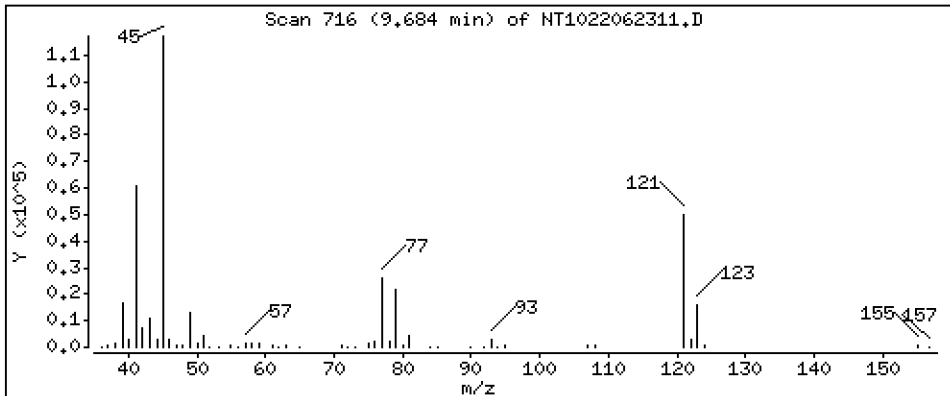
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 7,063 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

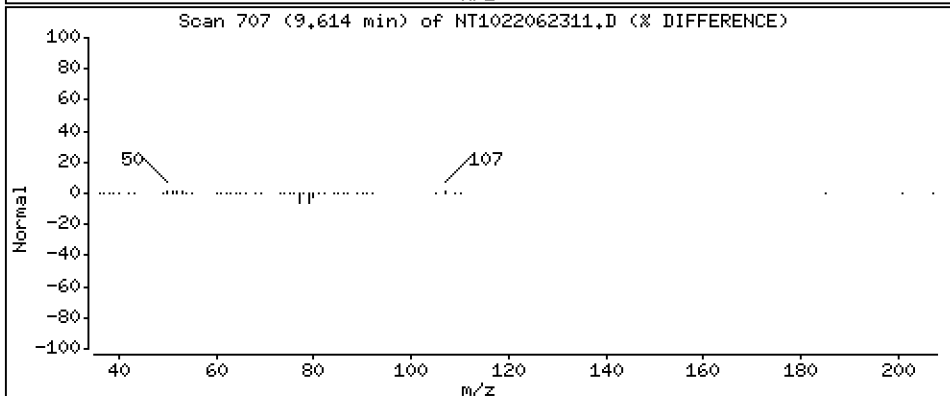
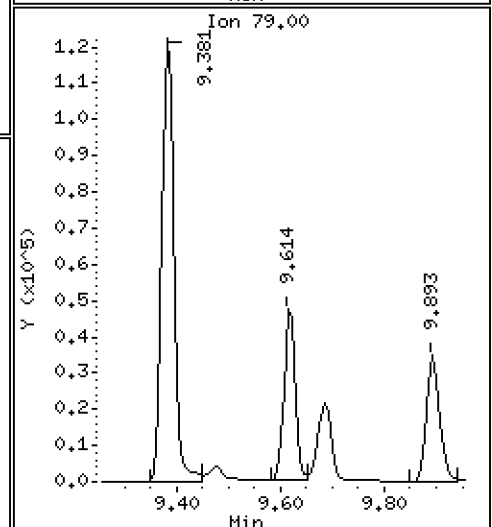
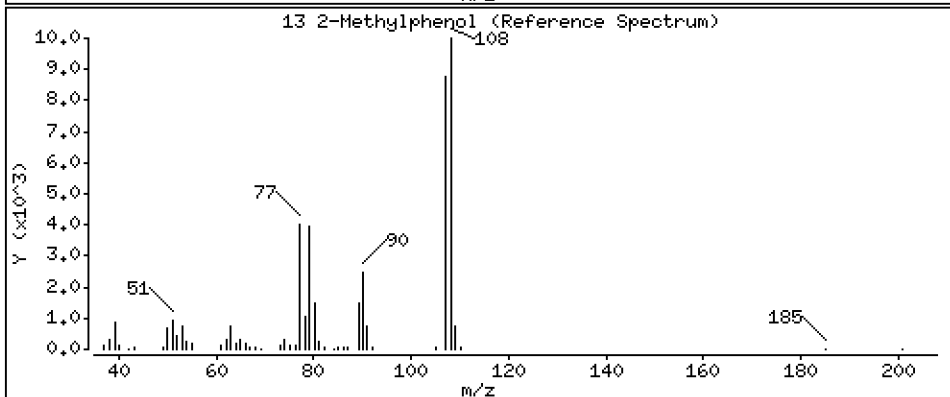
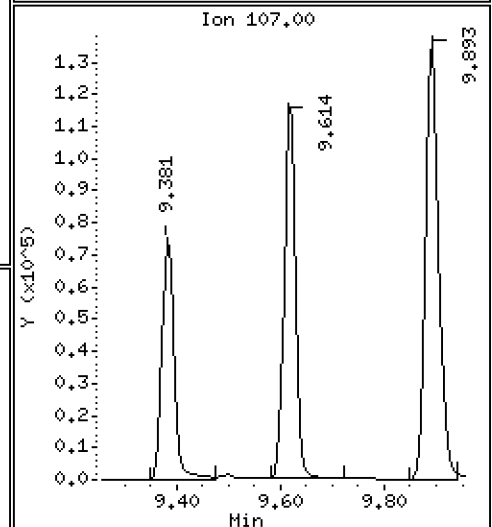
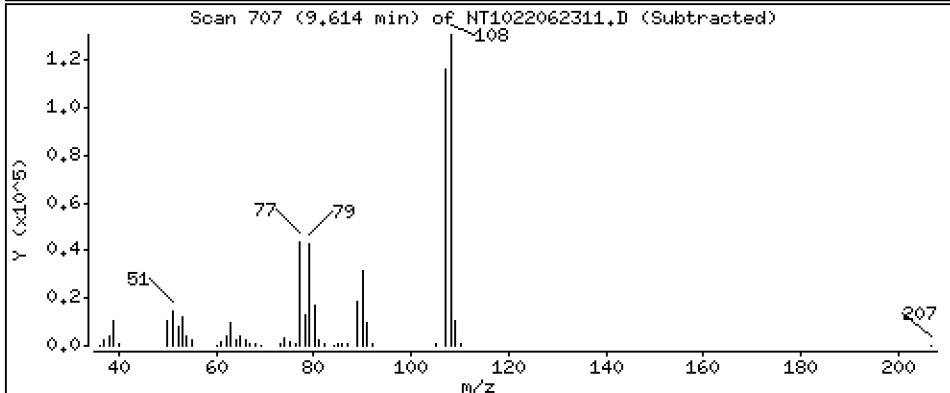
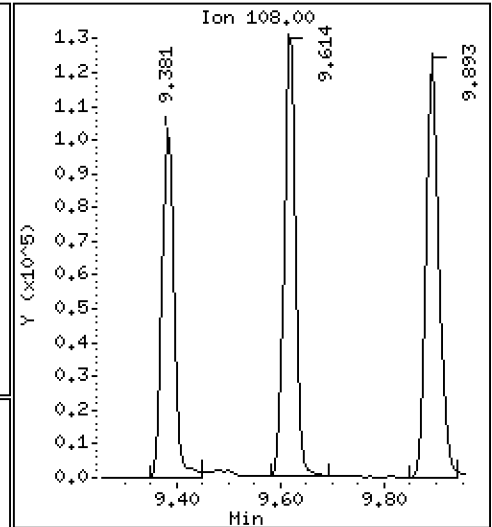
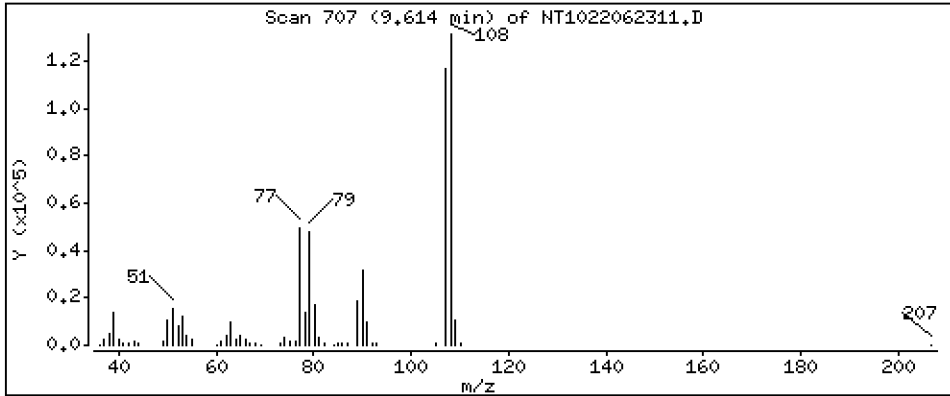
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.442 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

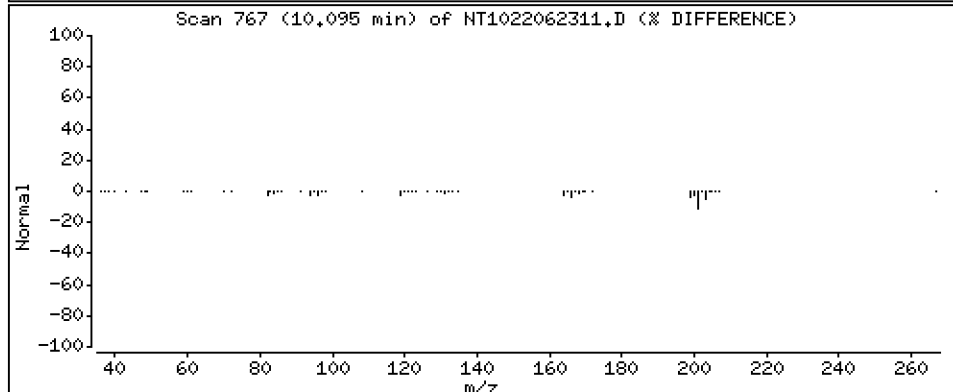
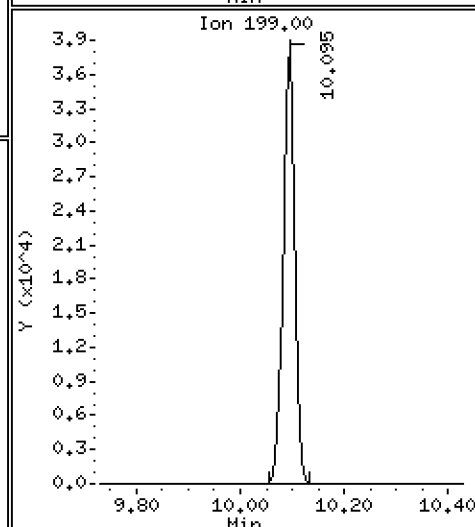
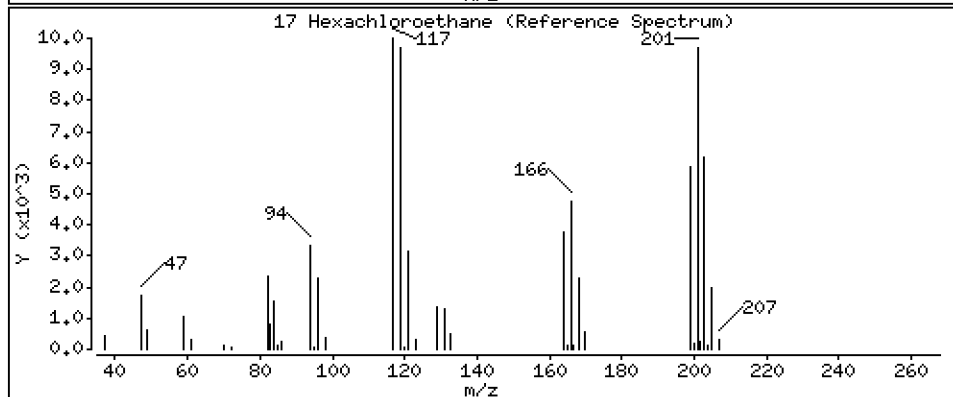
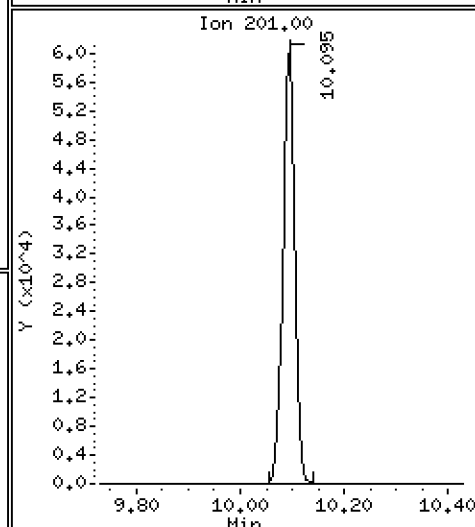
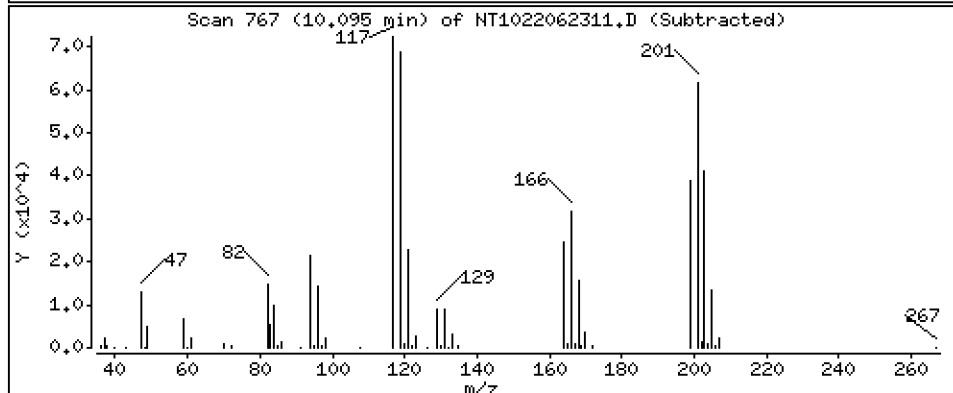
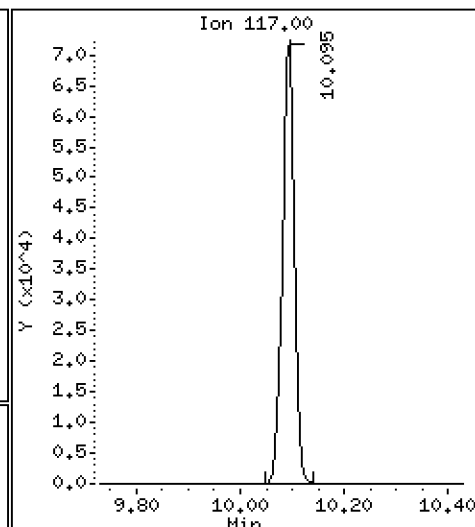
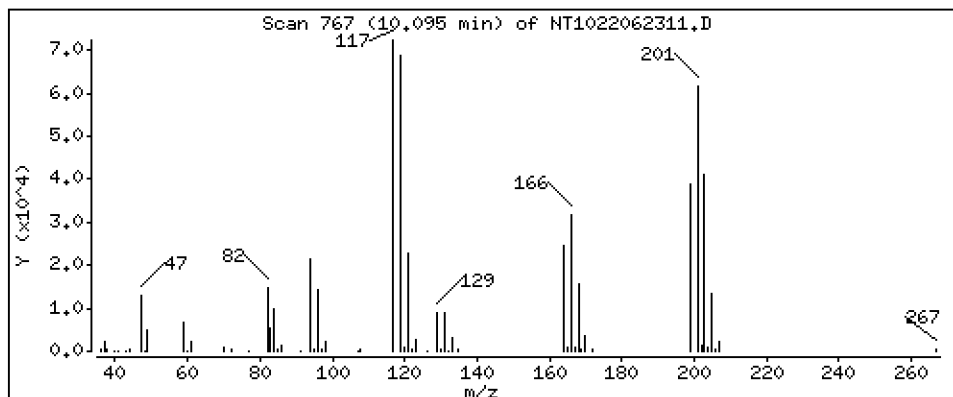
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,296 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

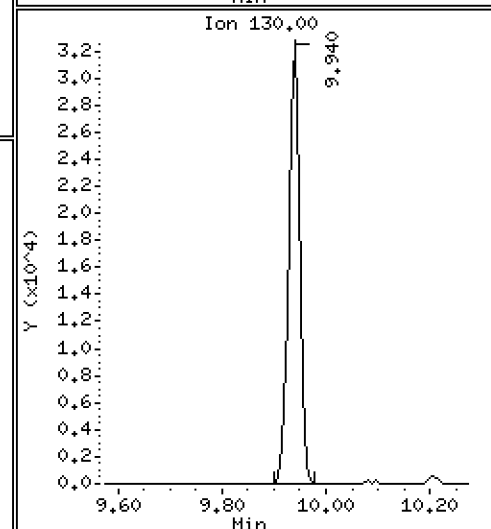
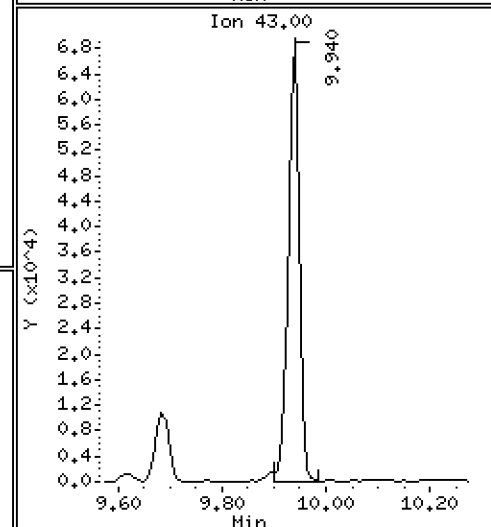
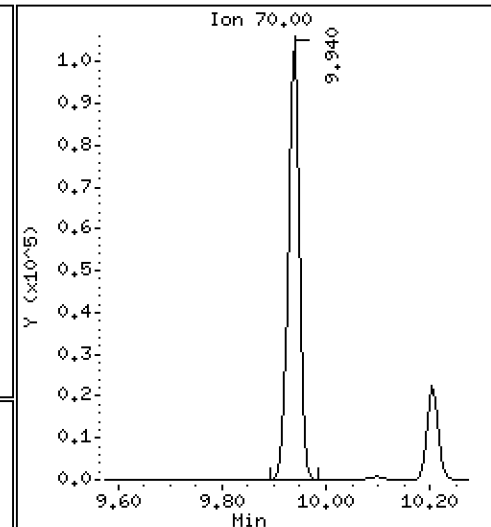
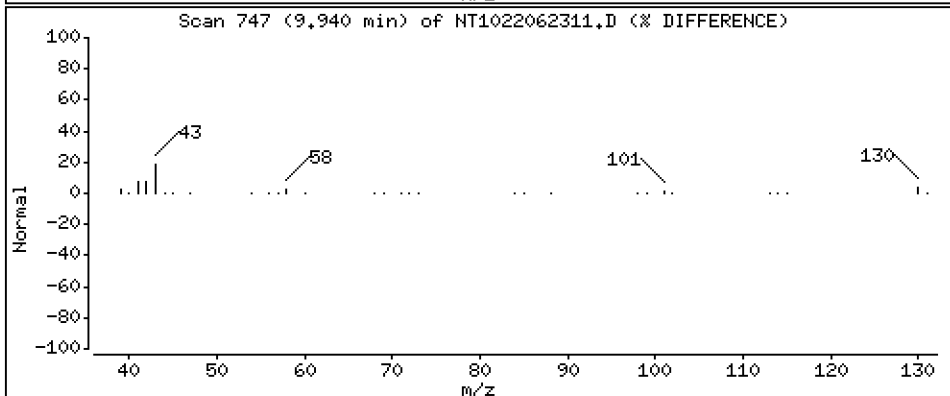
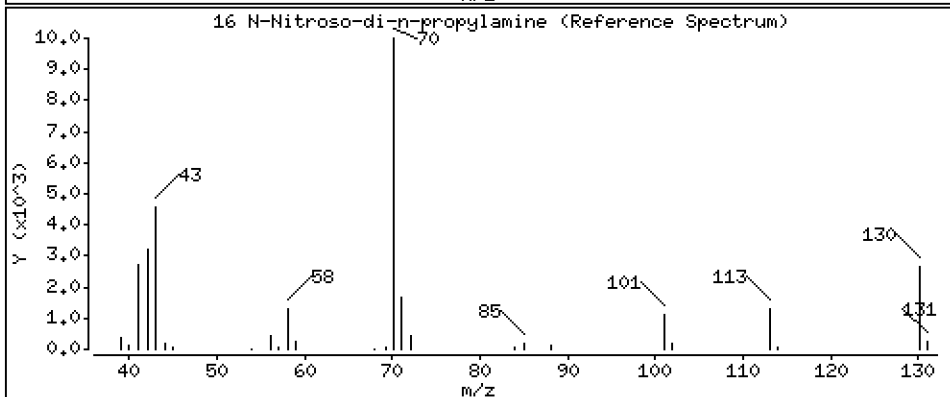
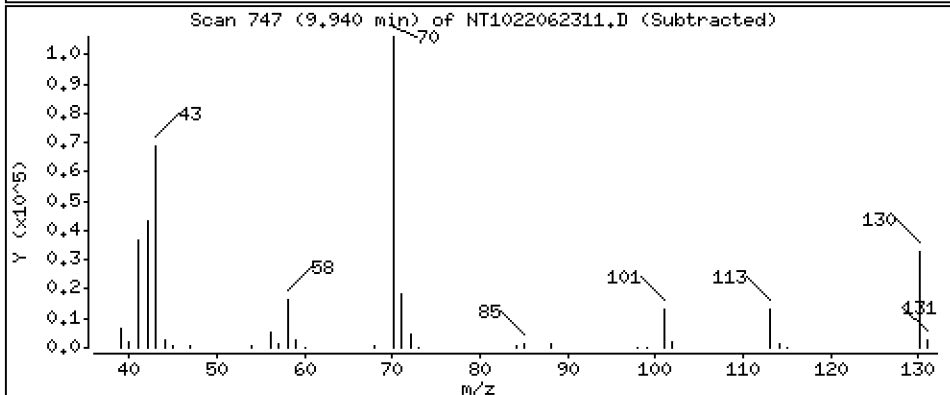
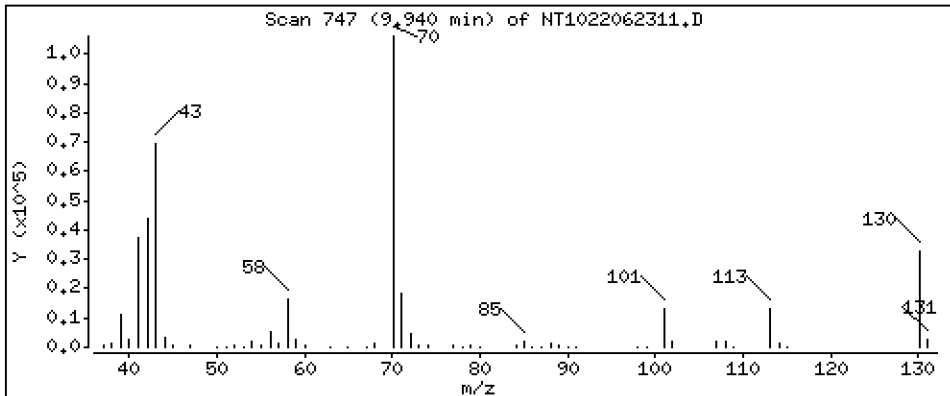
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,116 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

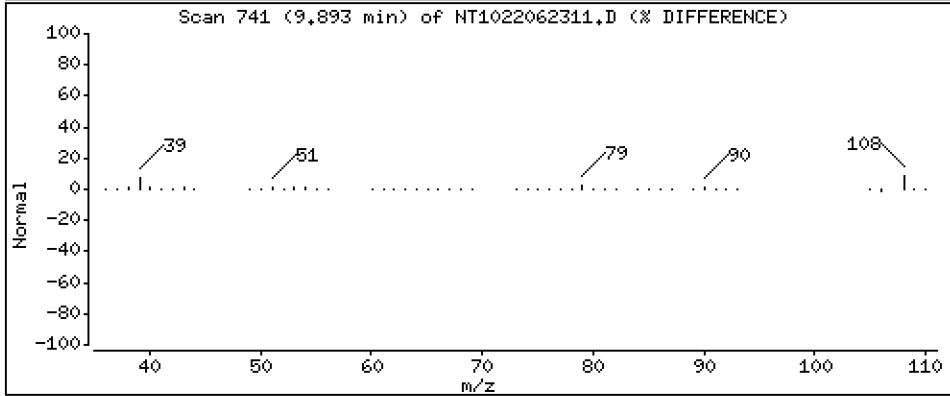
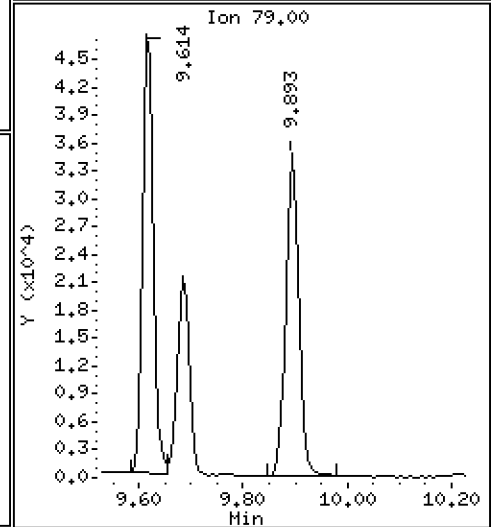
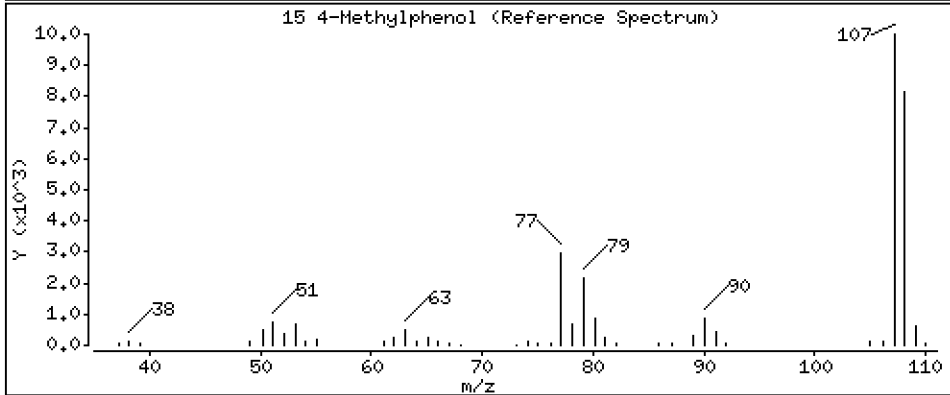
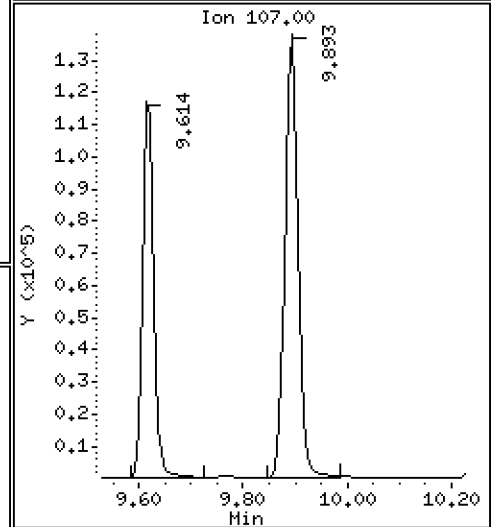
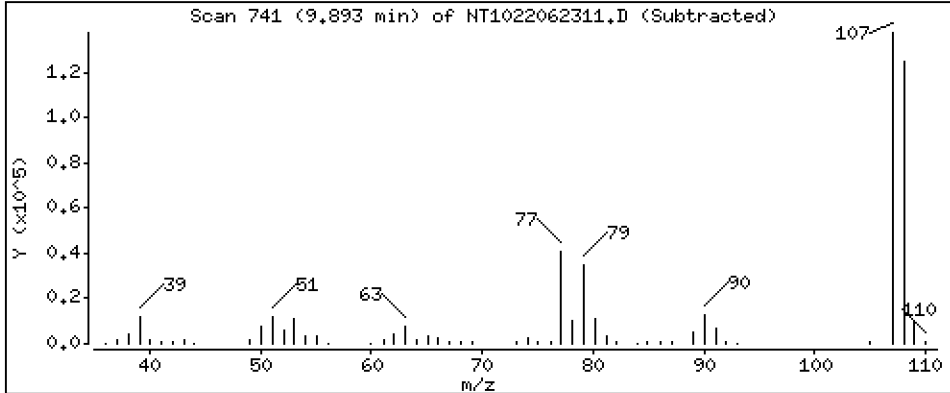
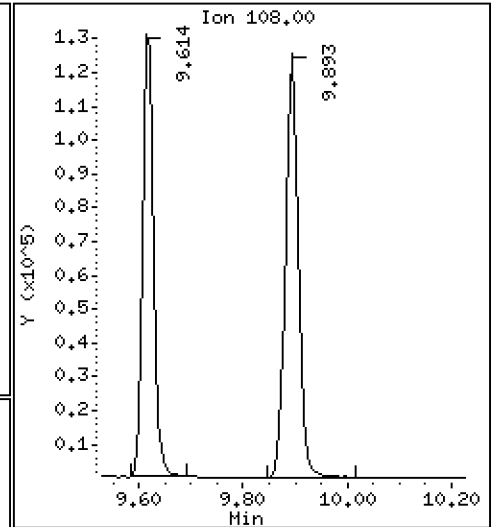
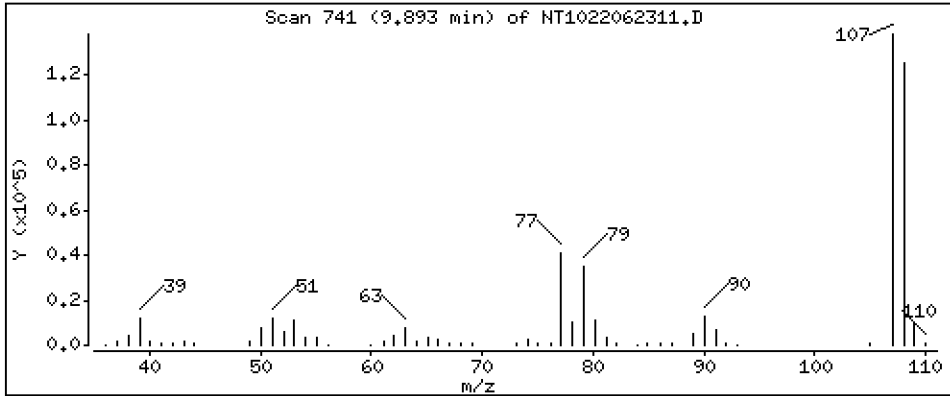
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,592 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

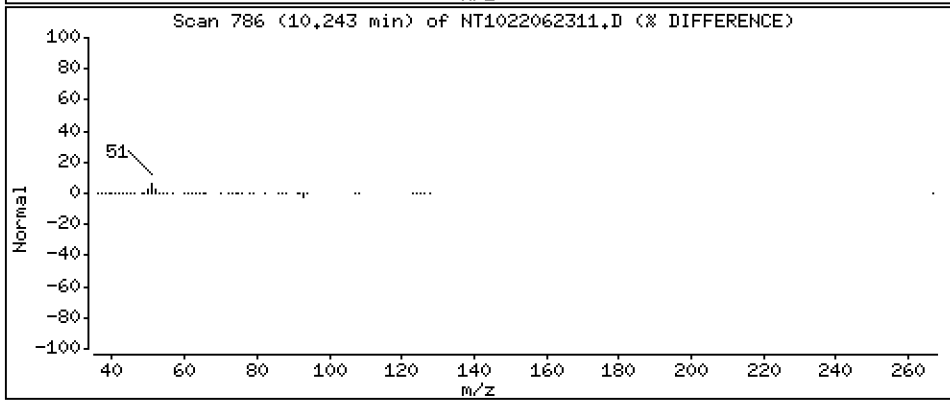
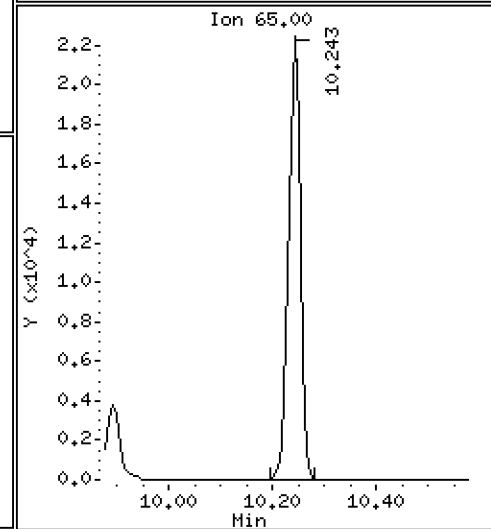
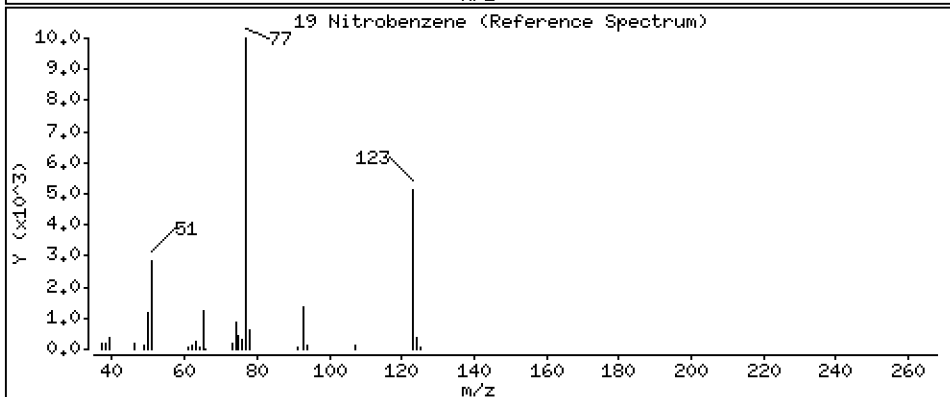
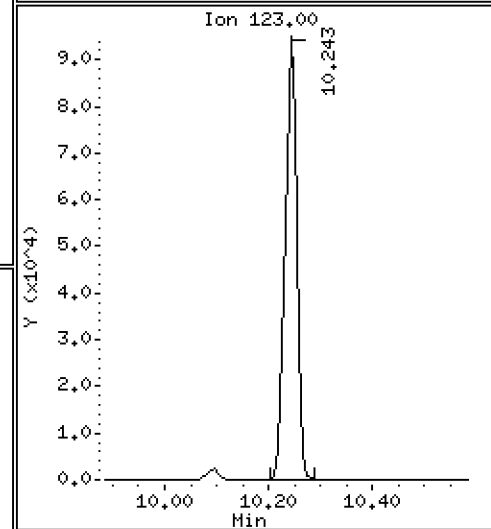
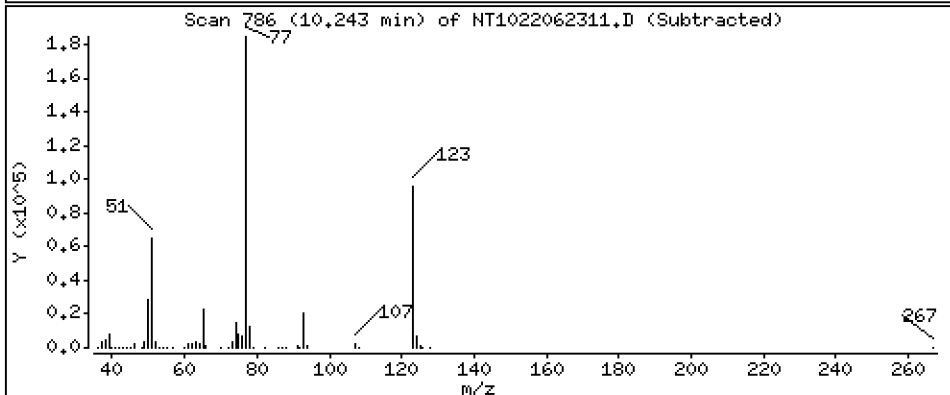
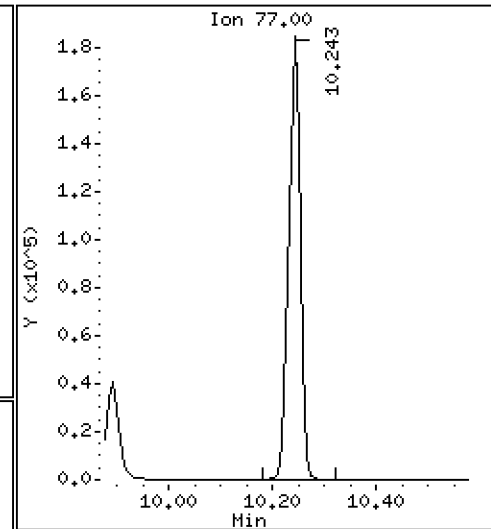
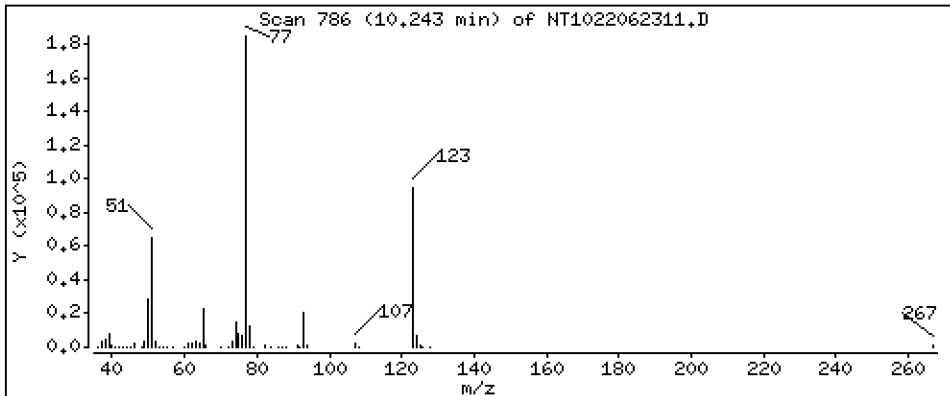
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 5,138 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

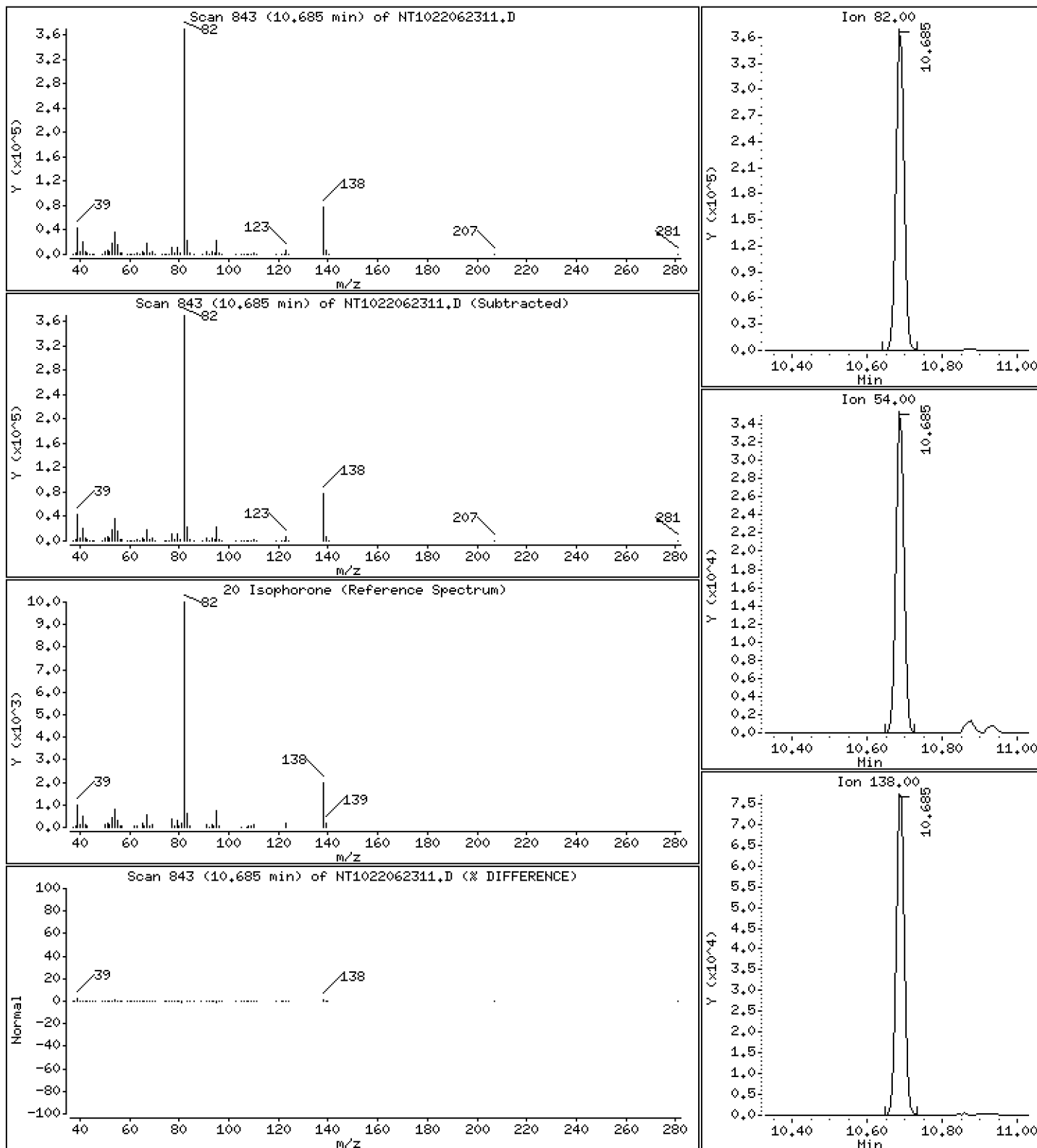
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 7,412 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

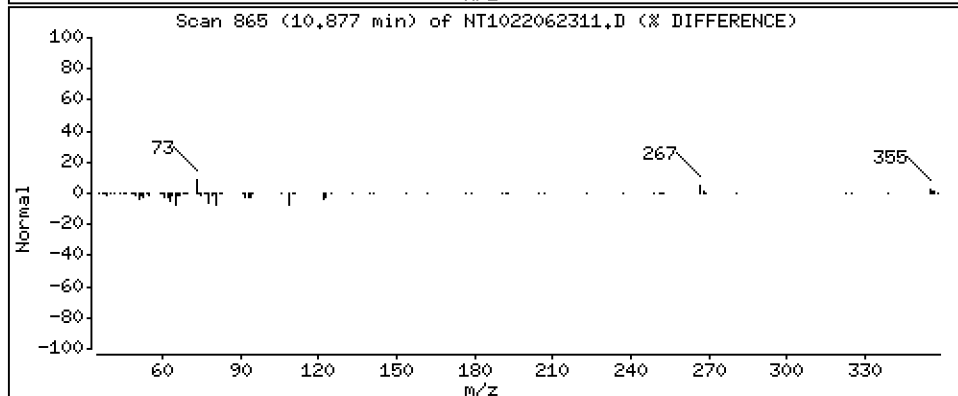
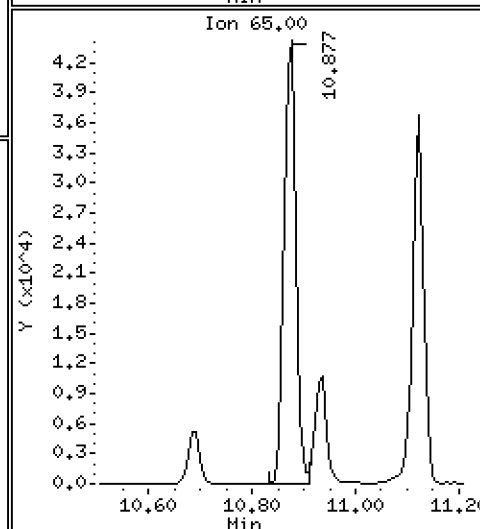
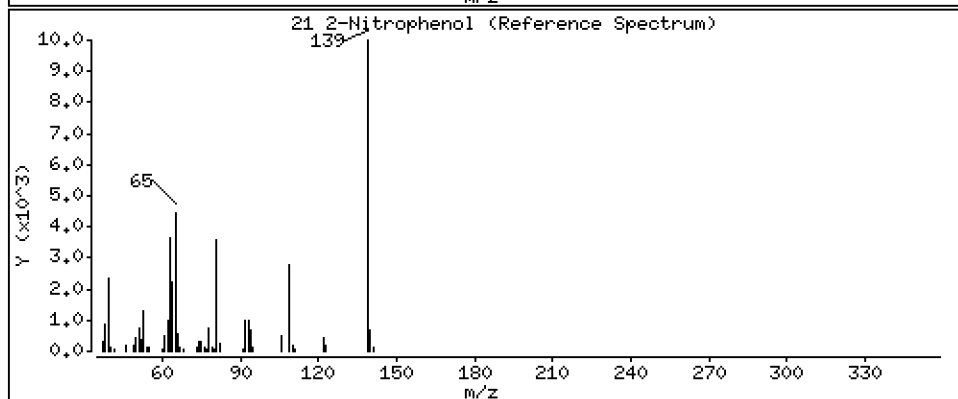
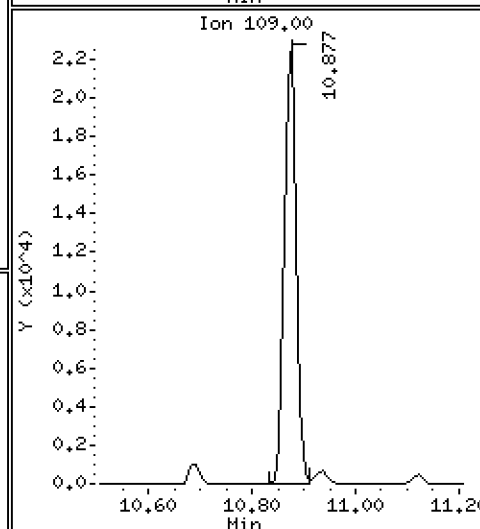
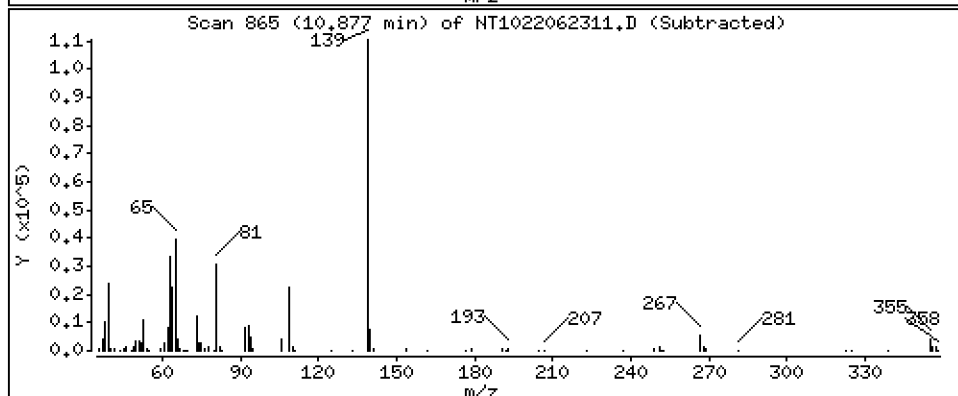
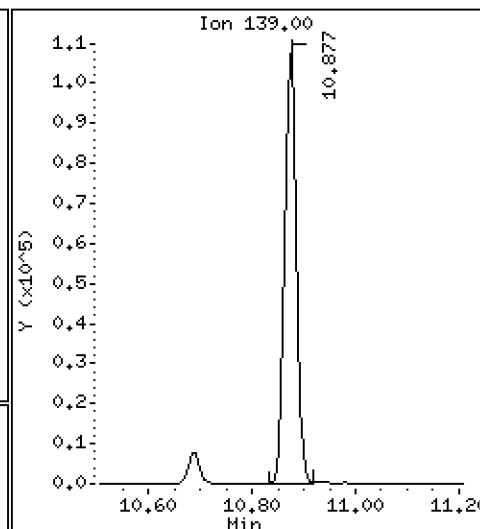
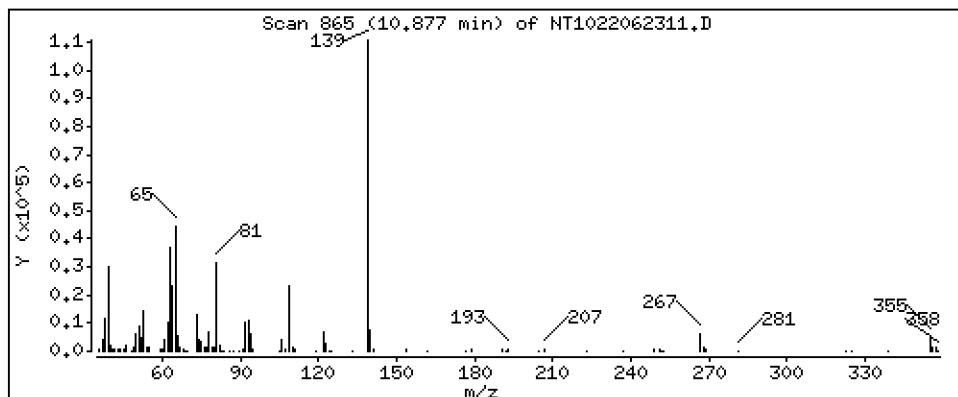
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,128 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

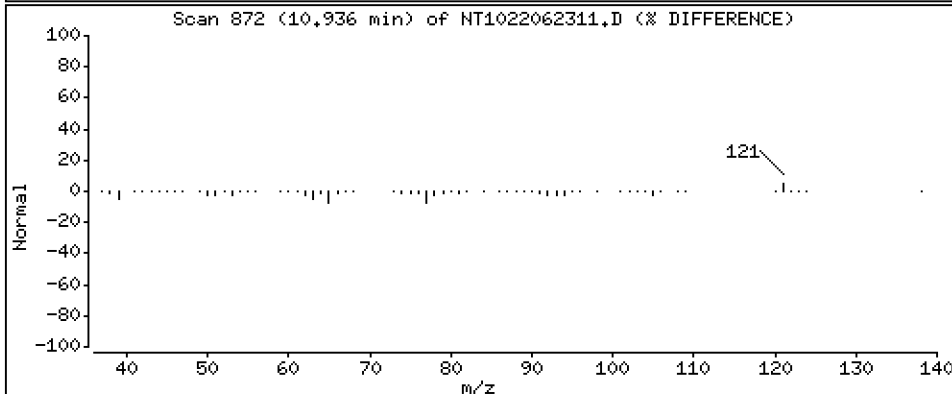
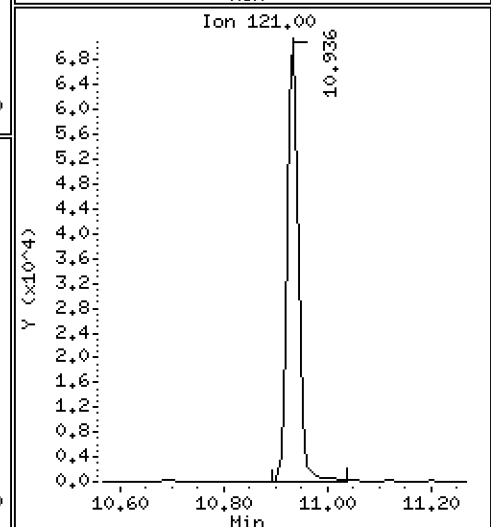
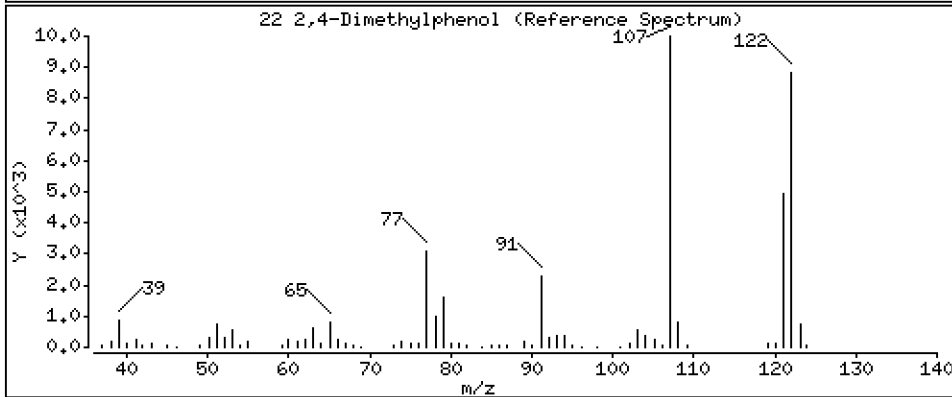
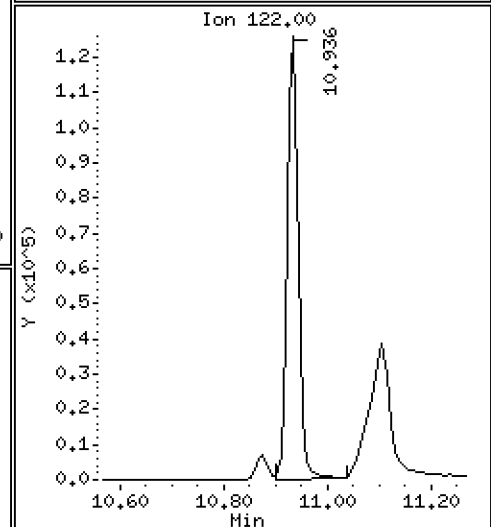
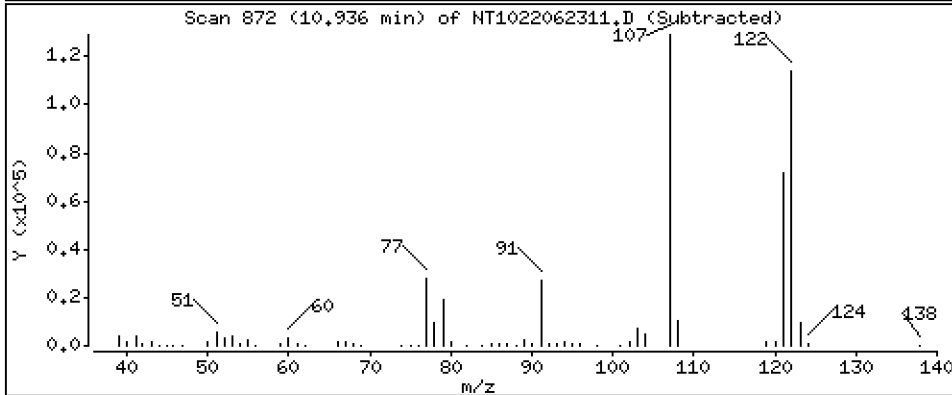
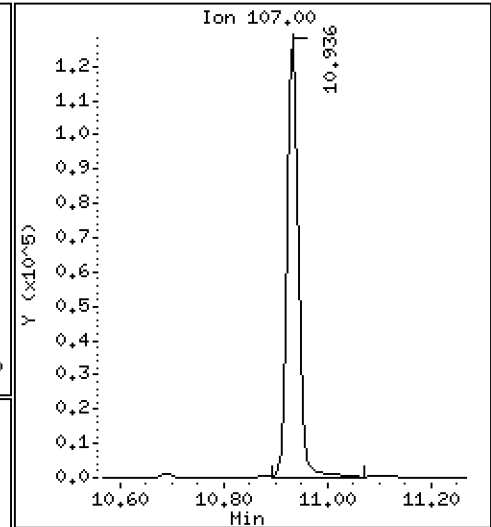
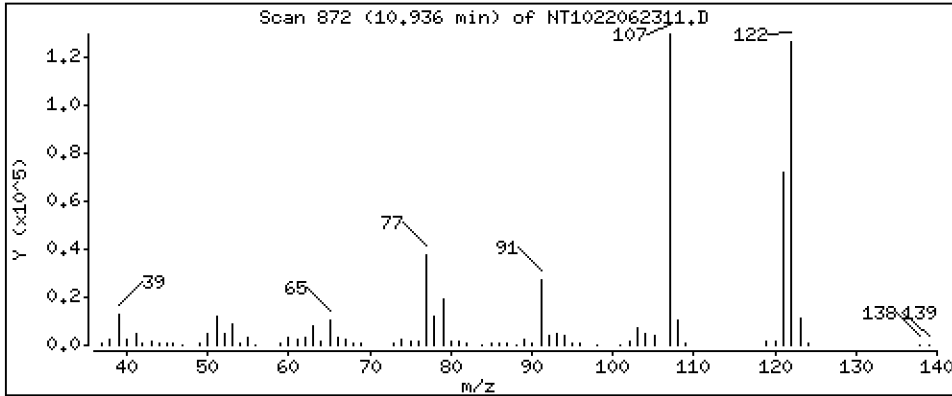
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 4,736 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

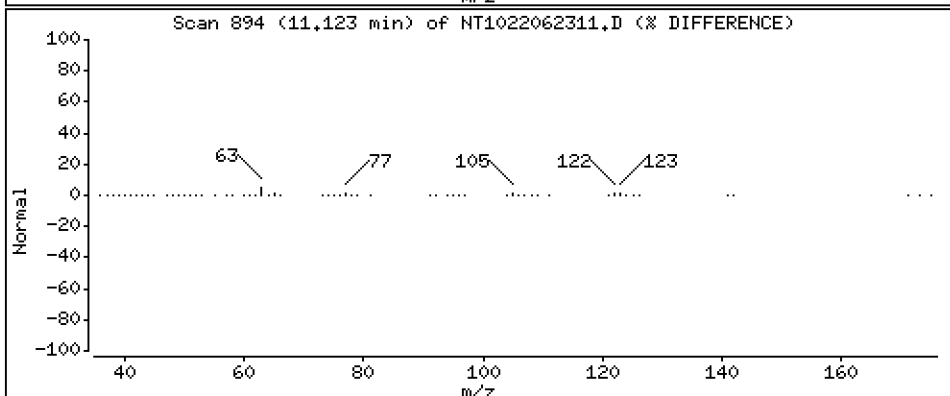
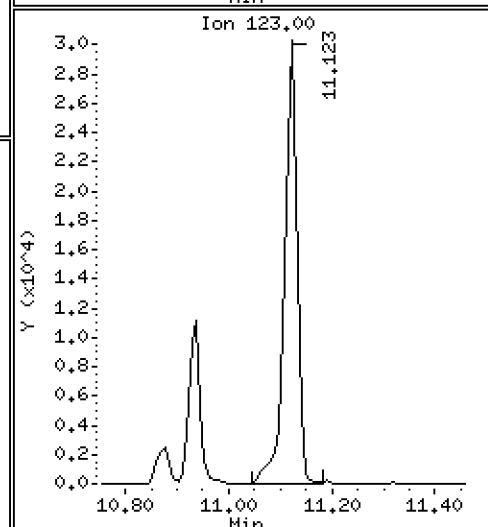
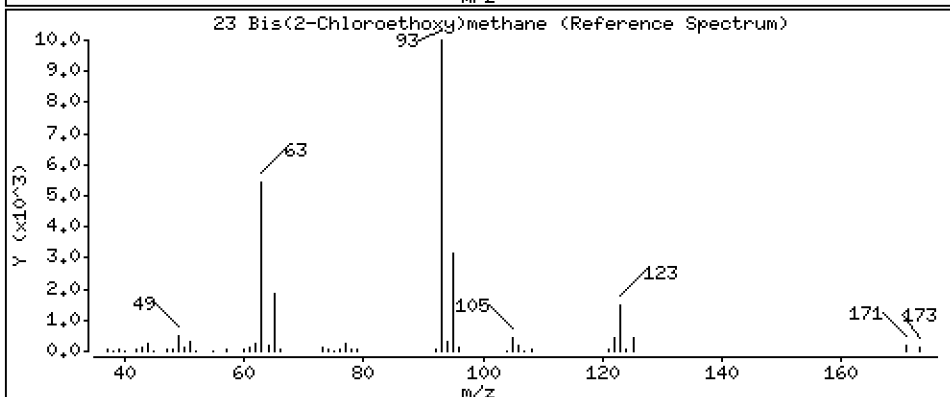
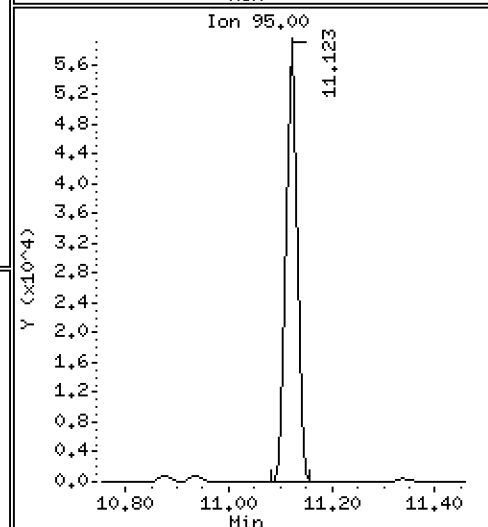
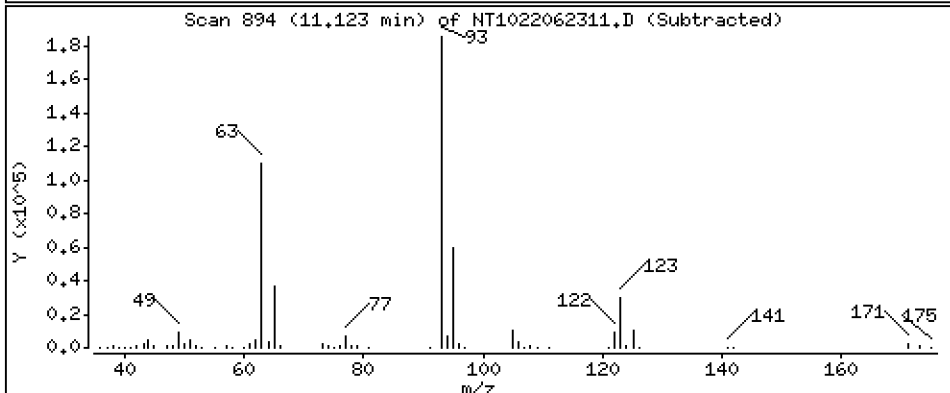
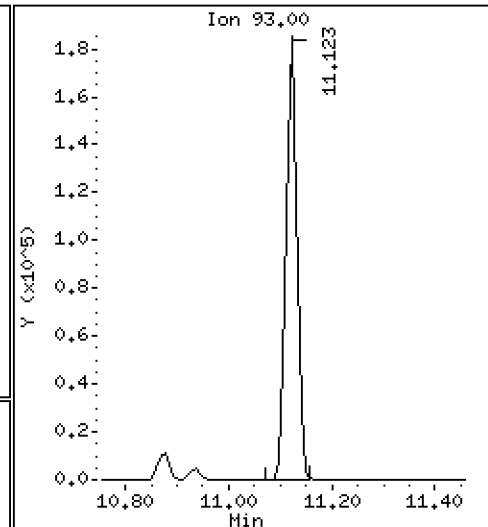
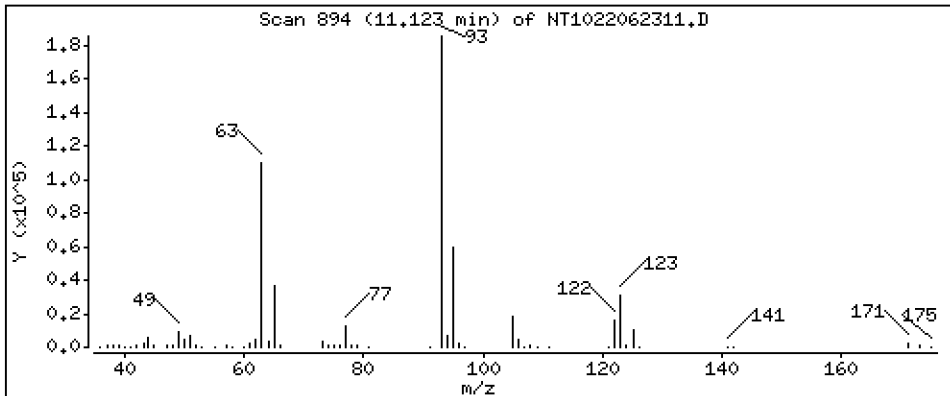
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,735 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

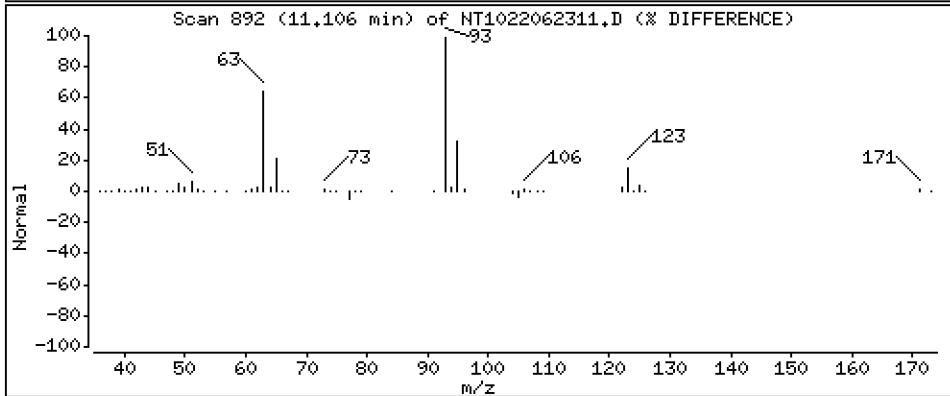
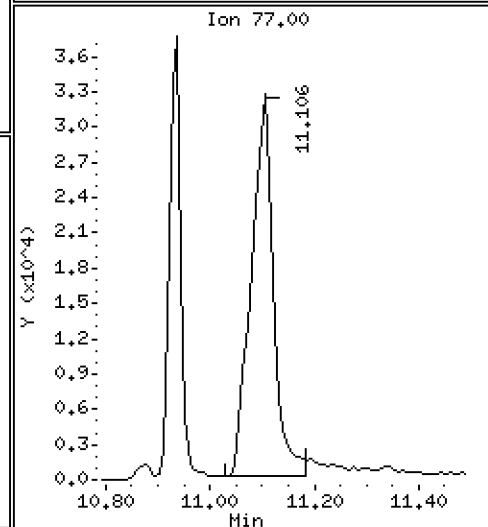
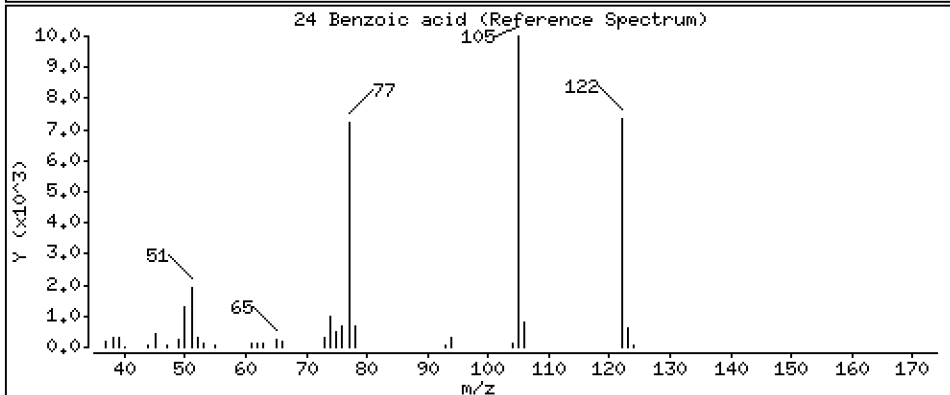
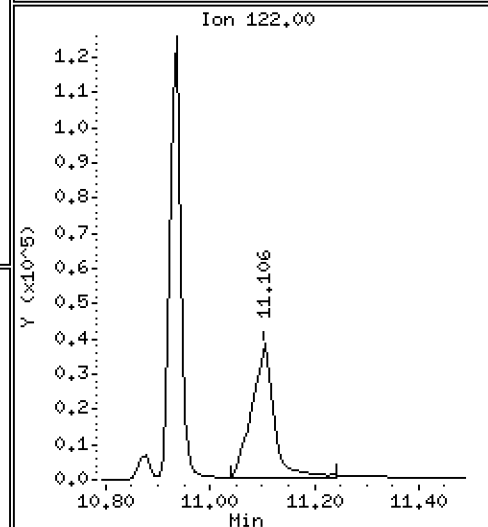
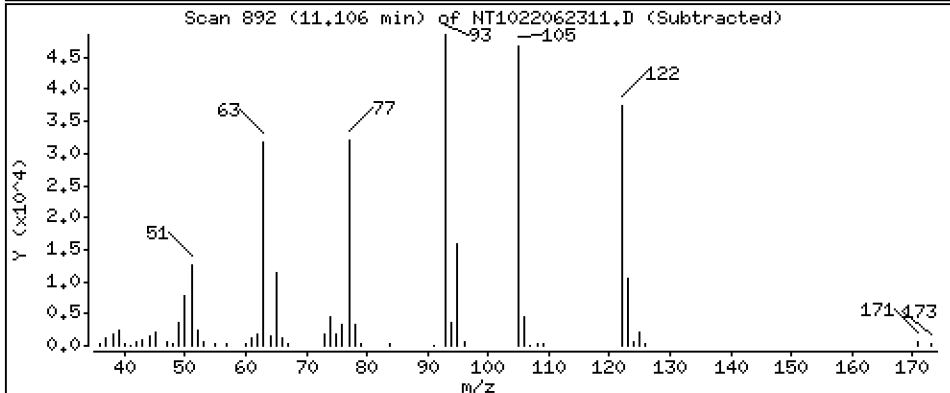
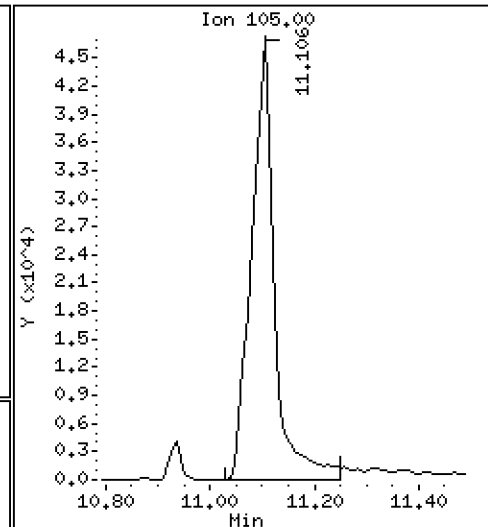
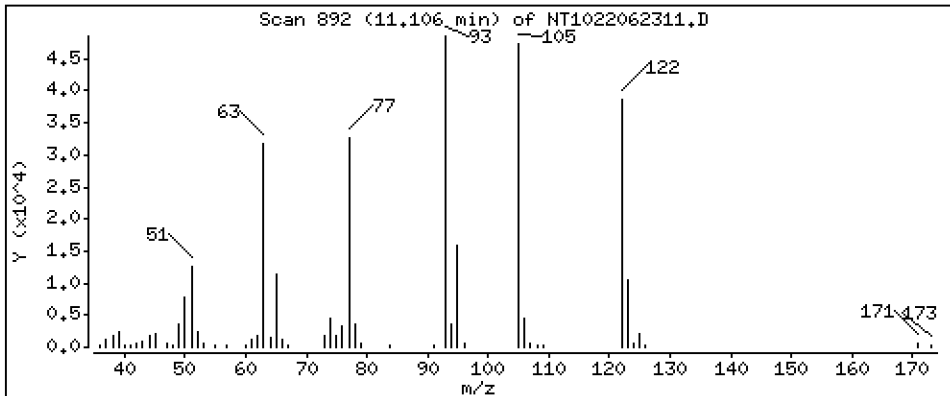
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 6,621 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

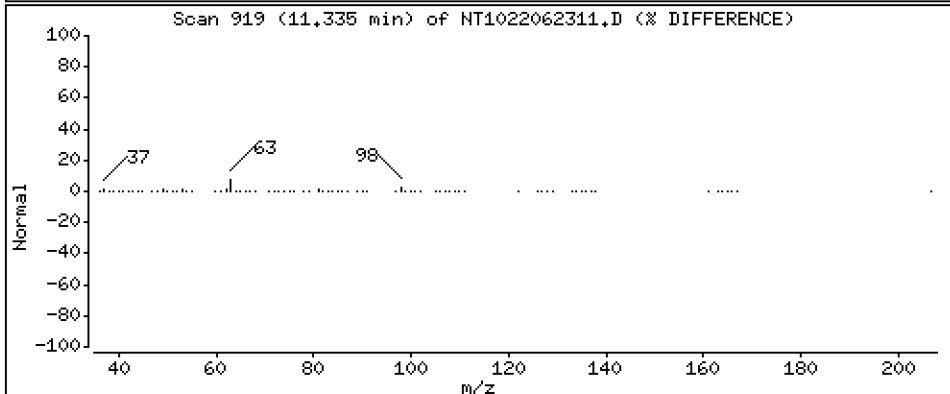
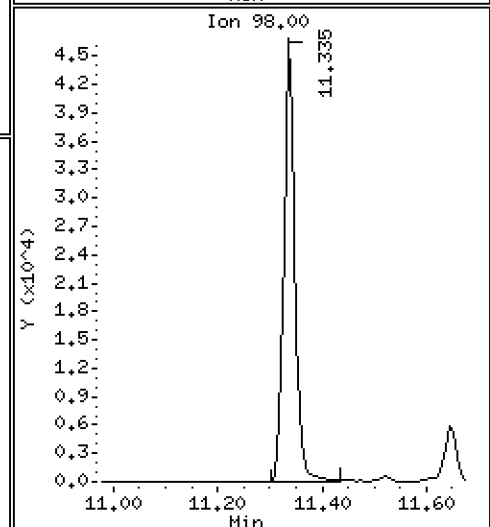
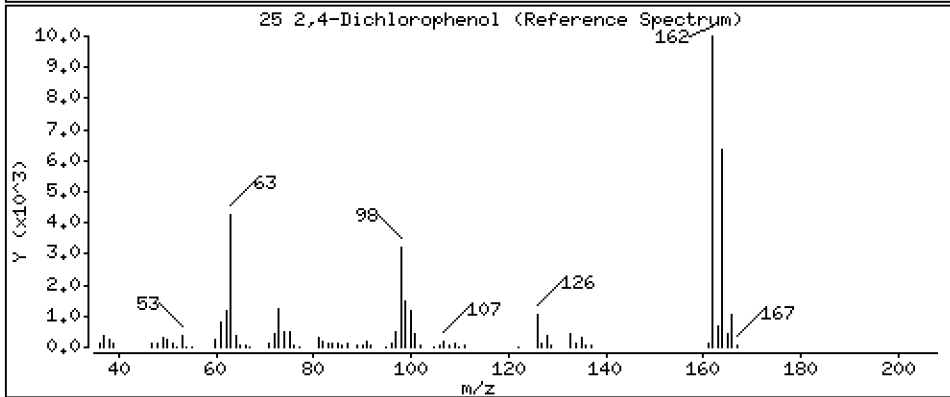
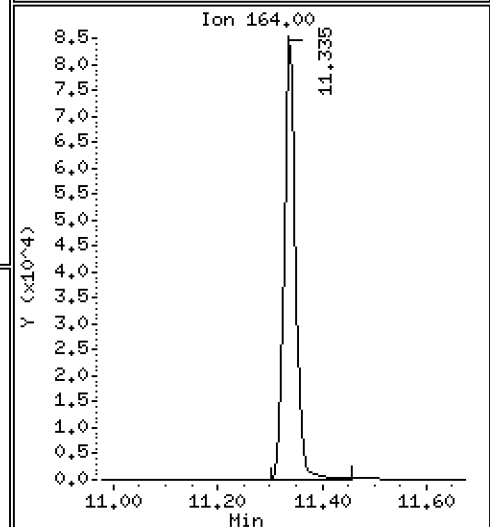
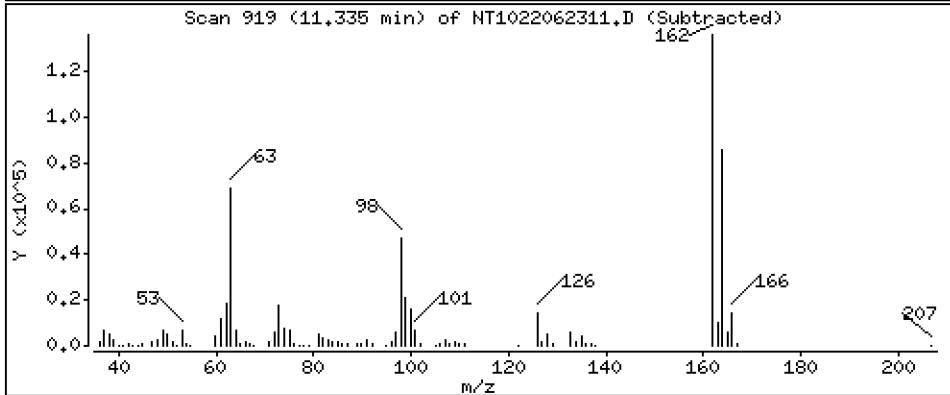
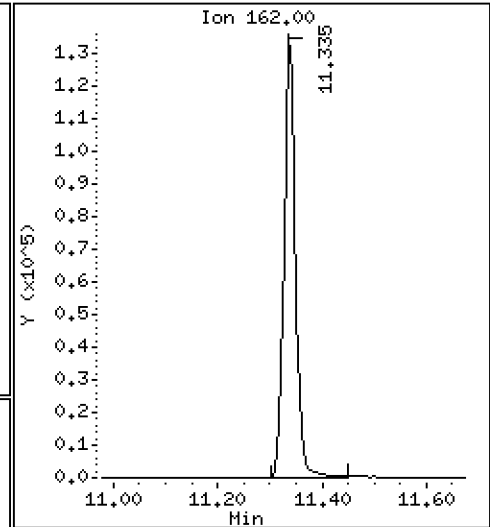
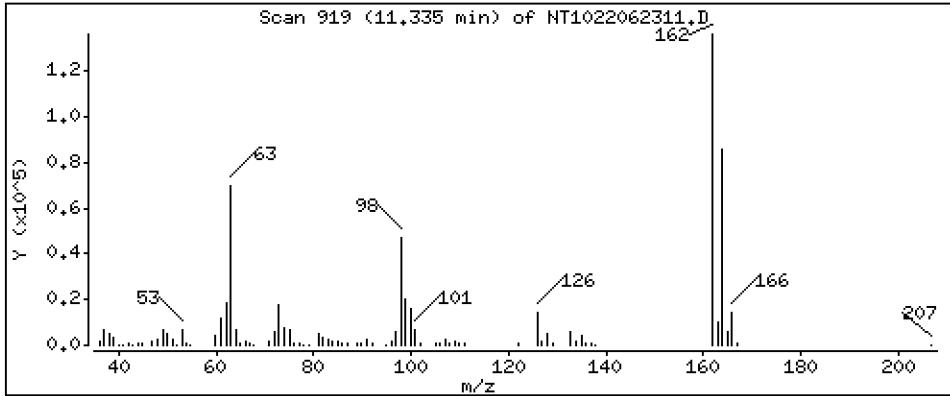
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 5,545 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

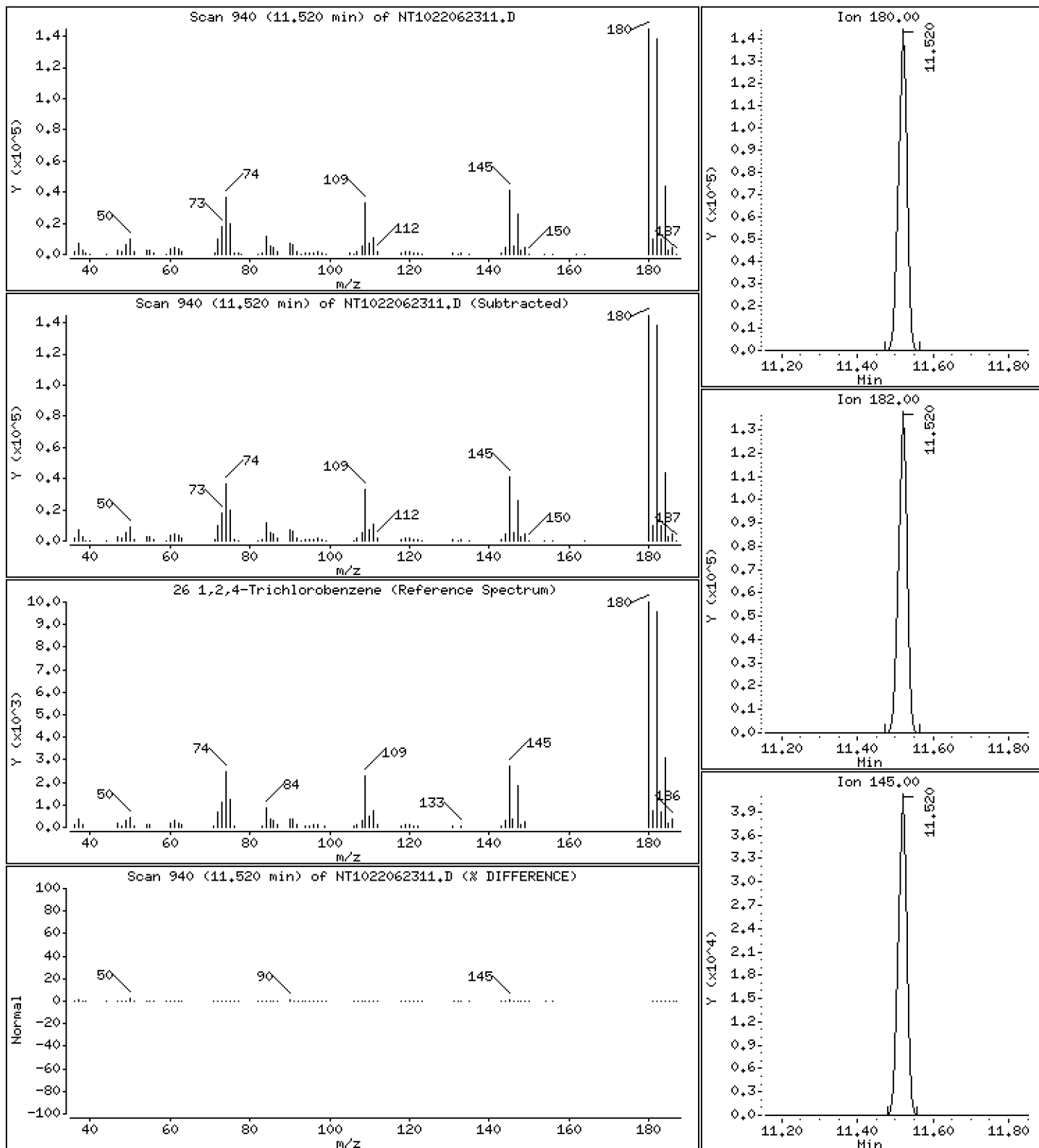
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,888 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

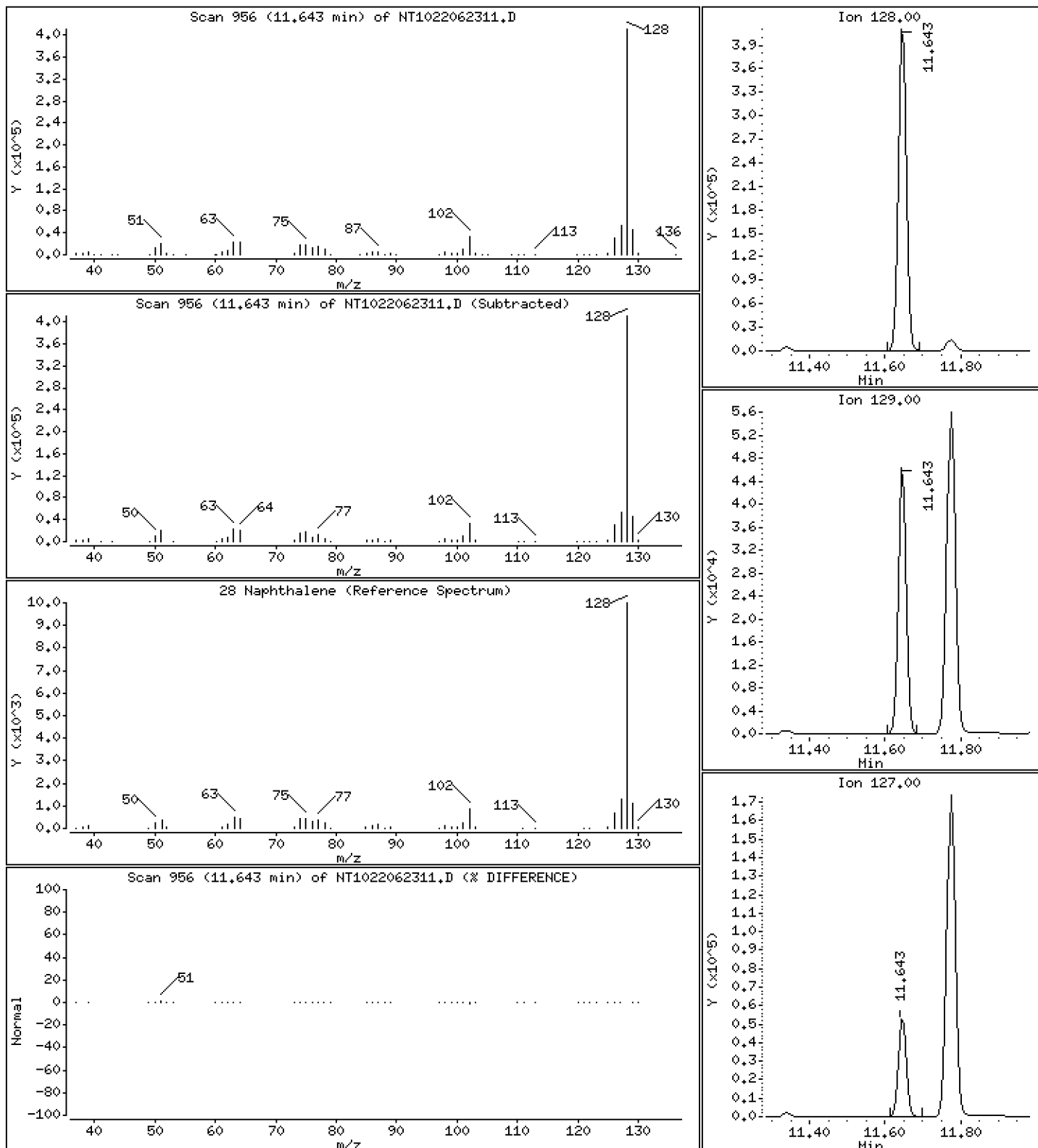
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,947 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

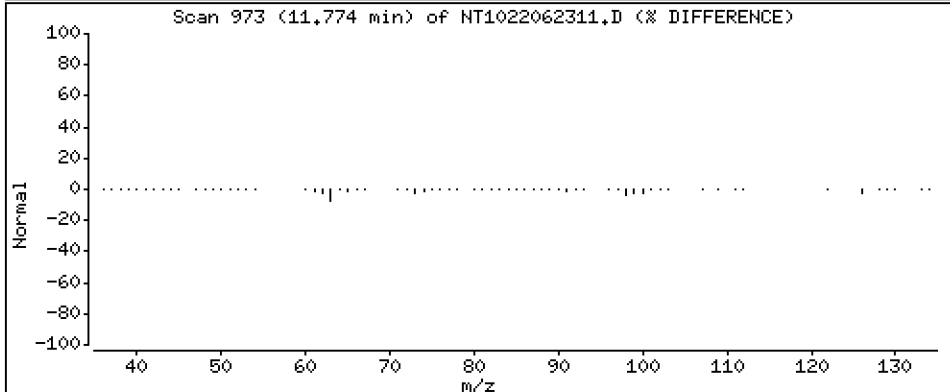
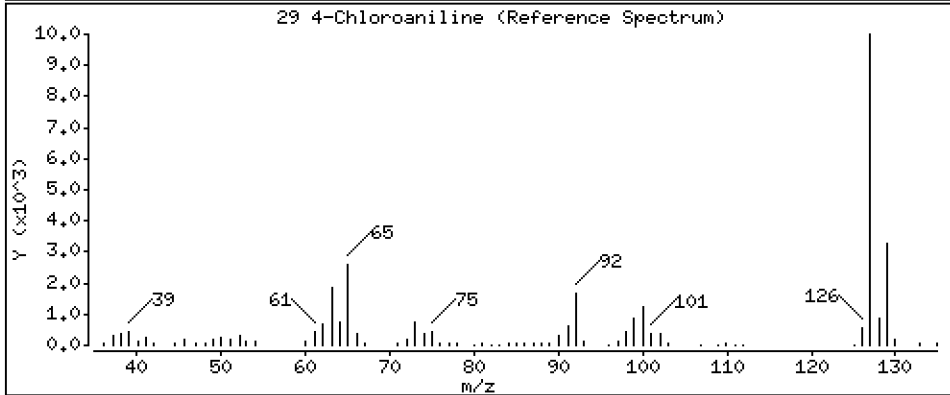
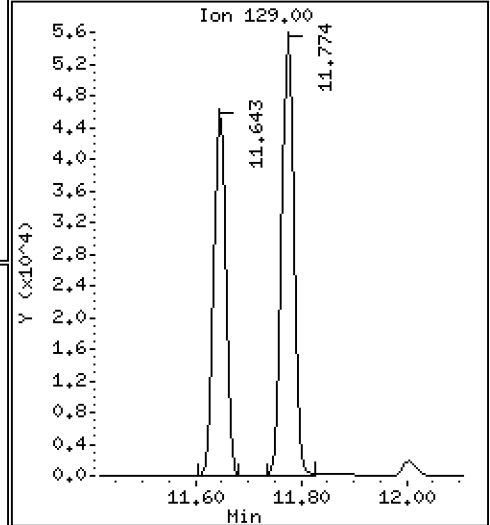
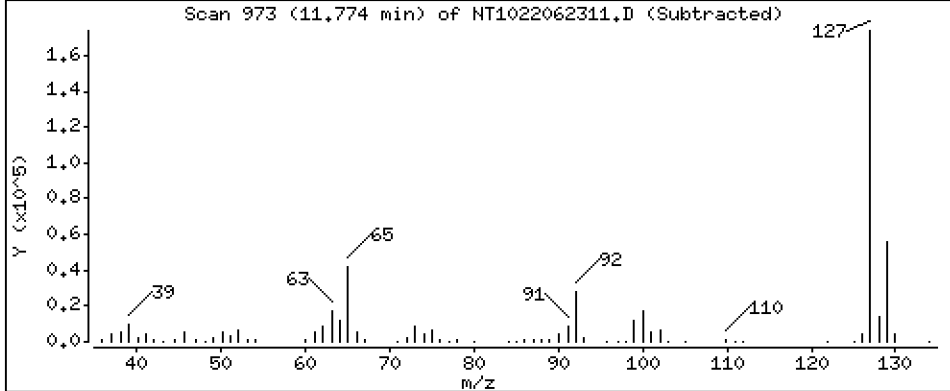
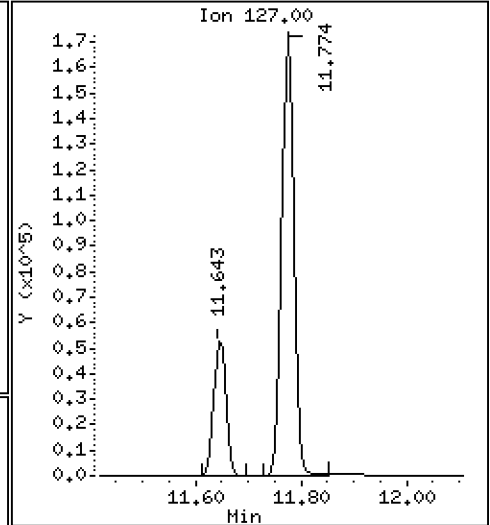
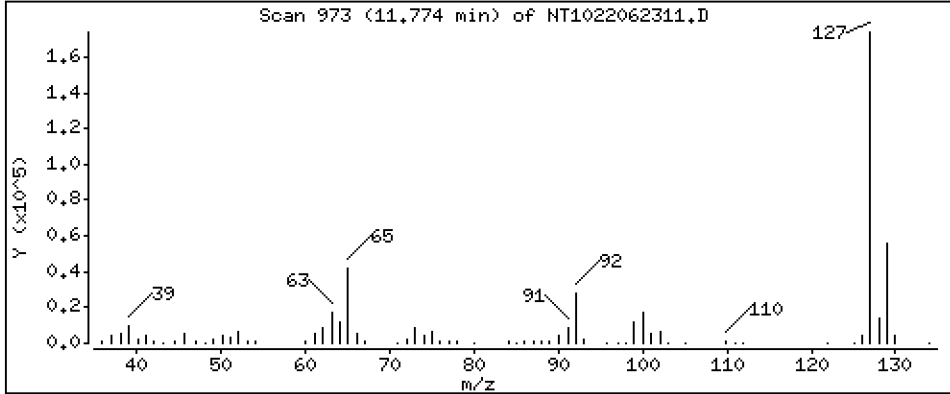
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 4,646 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

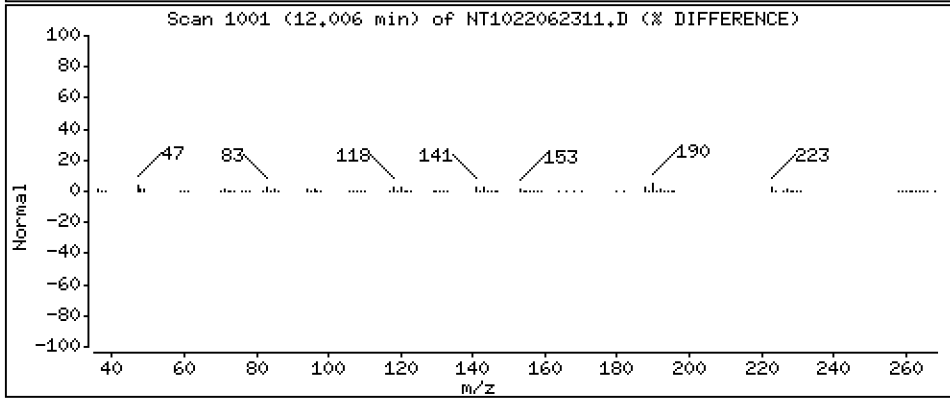
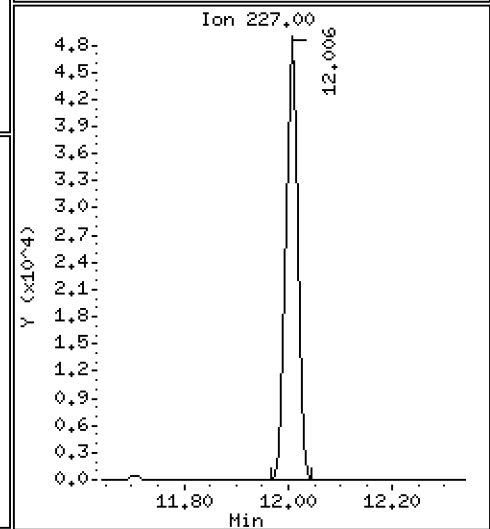
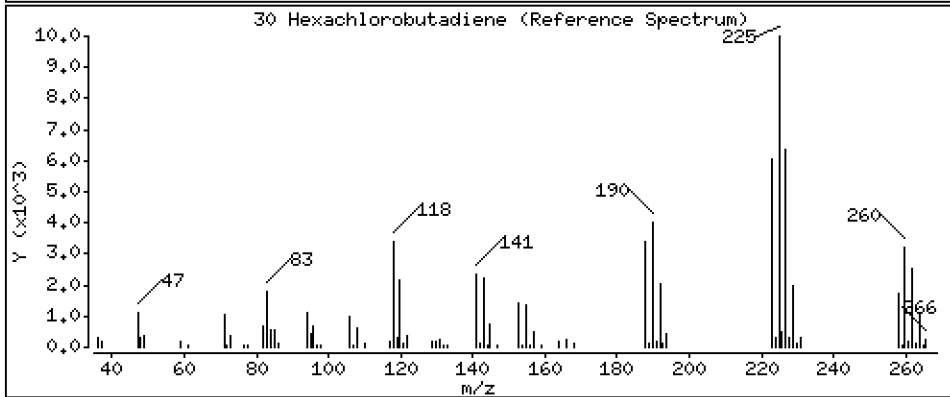
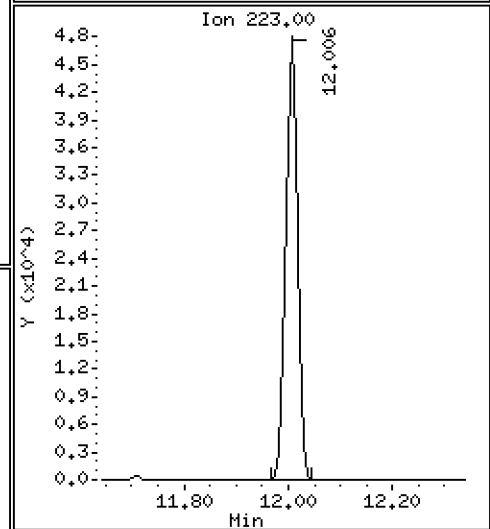
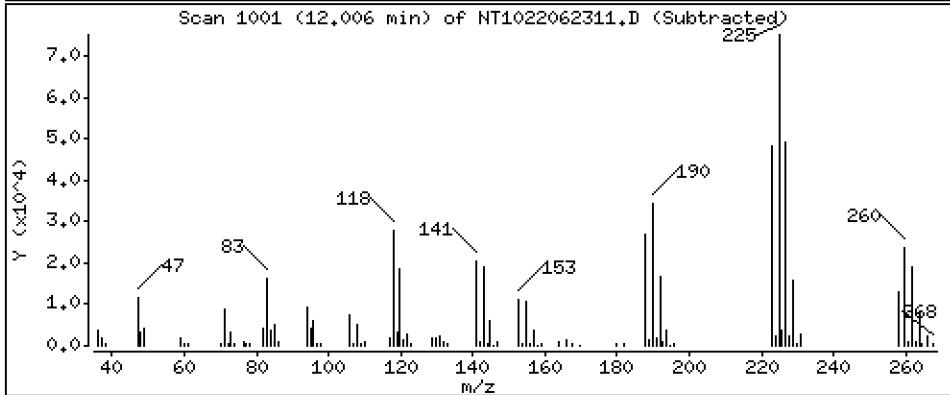
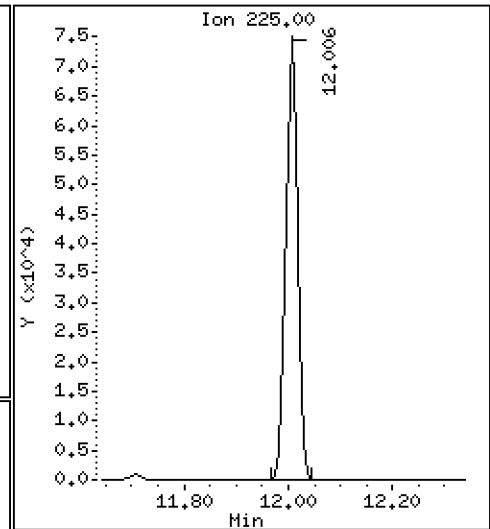
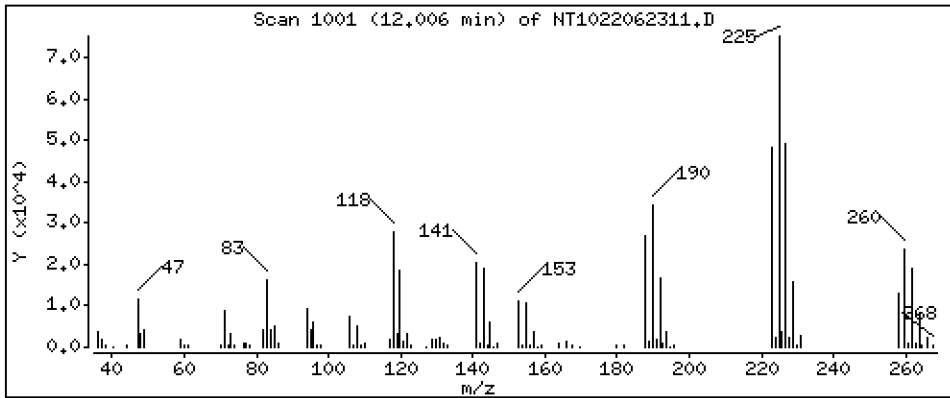
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 5,339 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

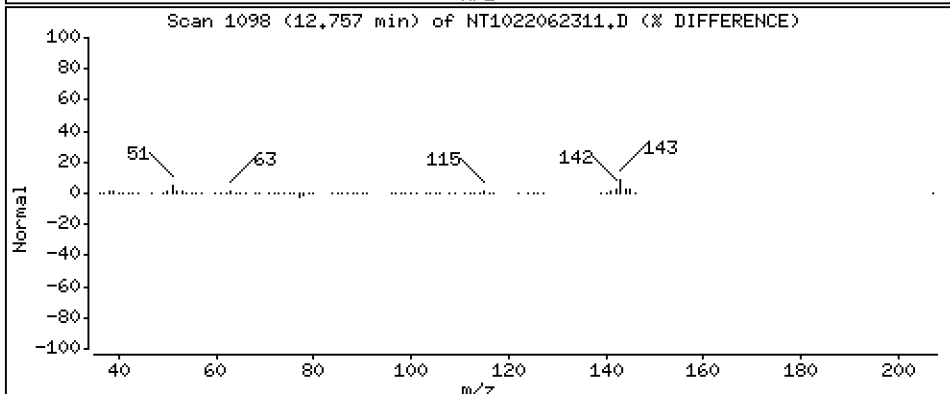
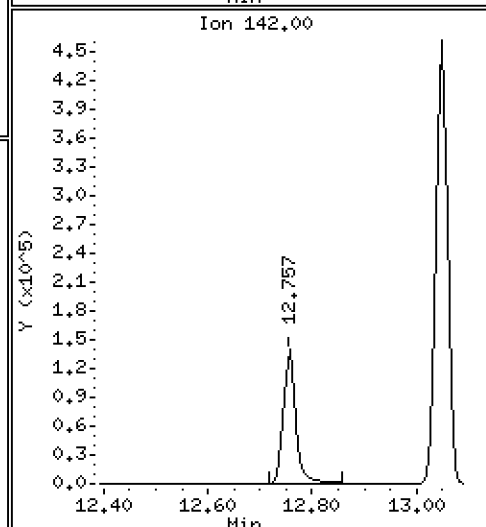
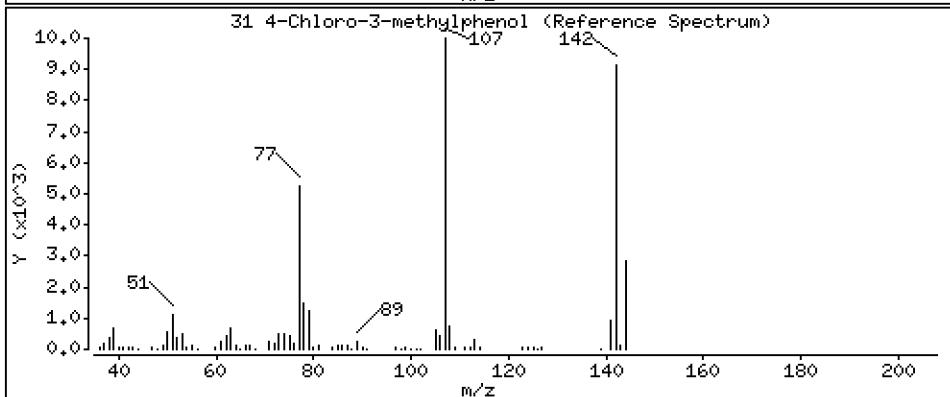
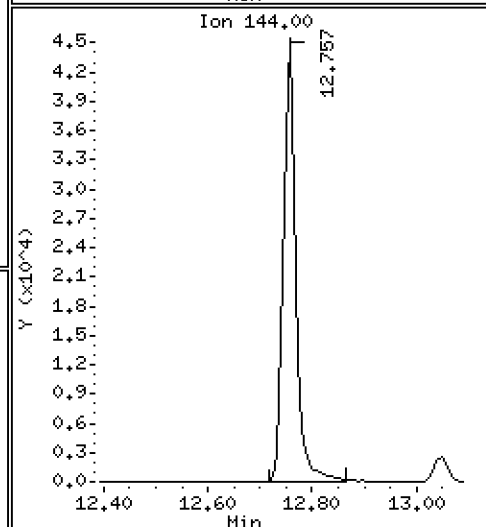
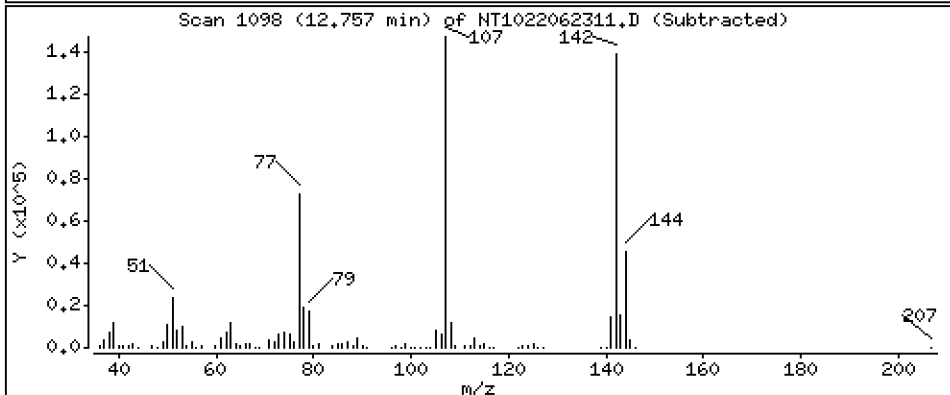
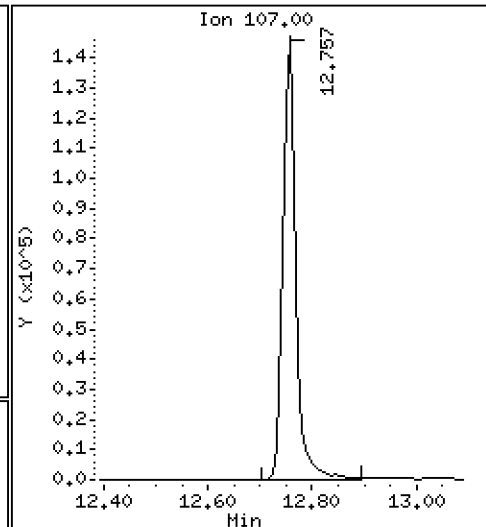
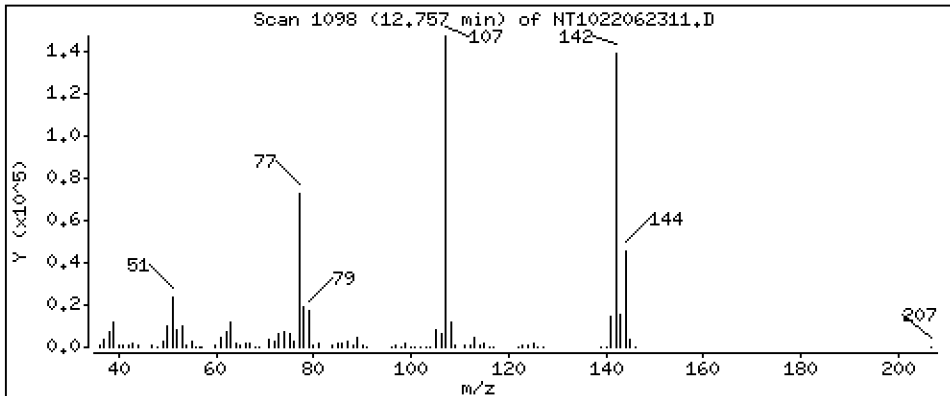
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 4,853 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

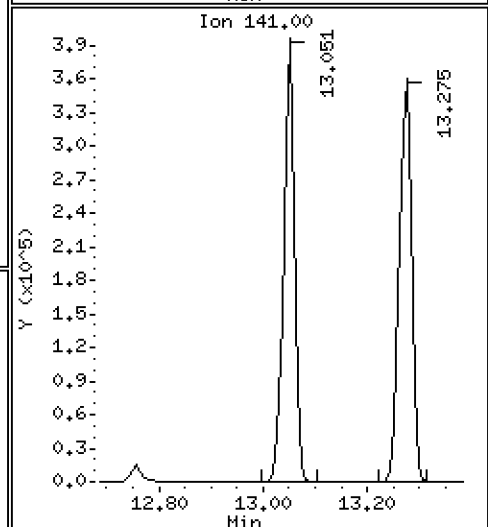
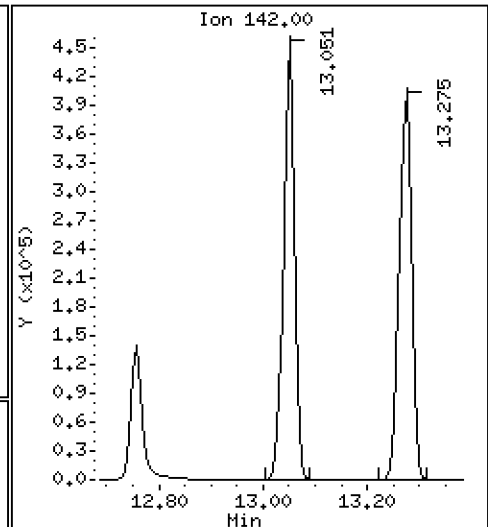
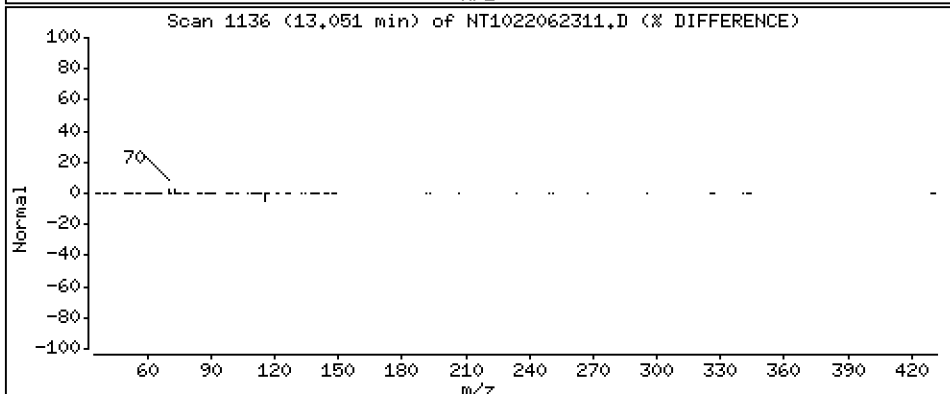
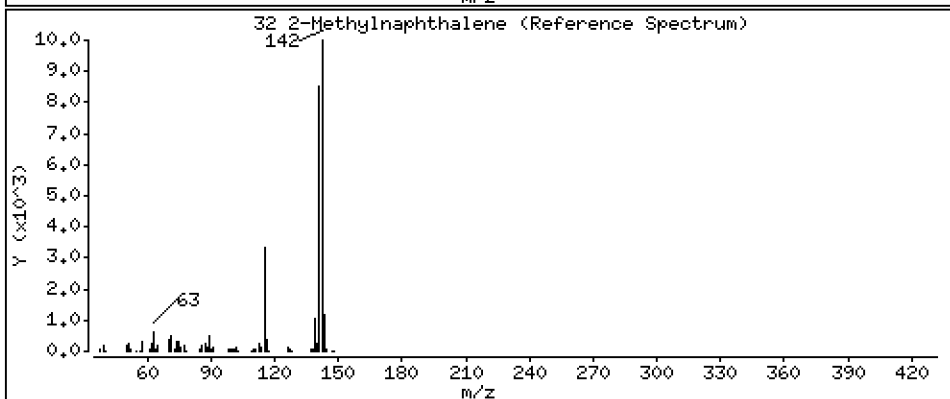
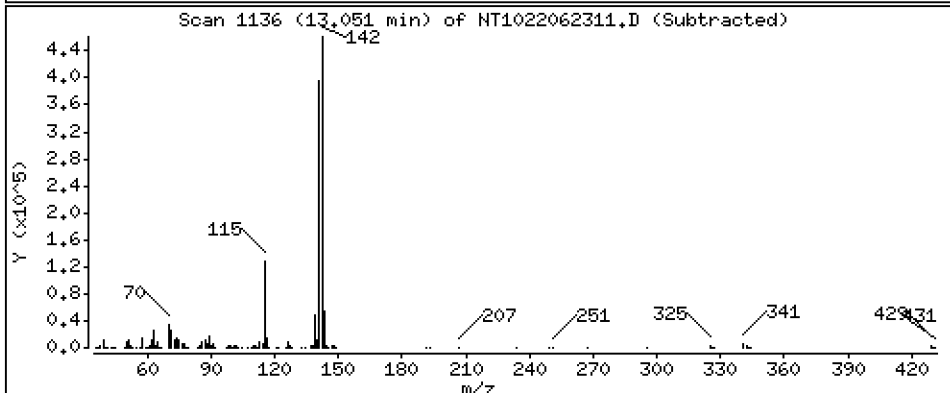
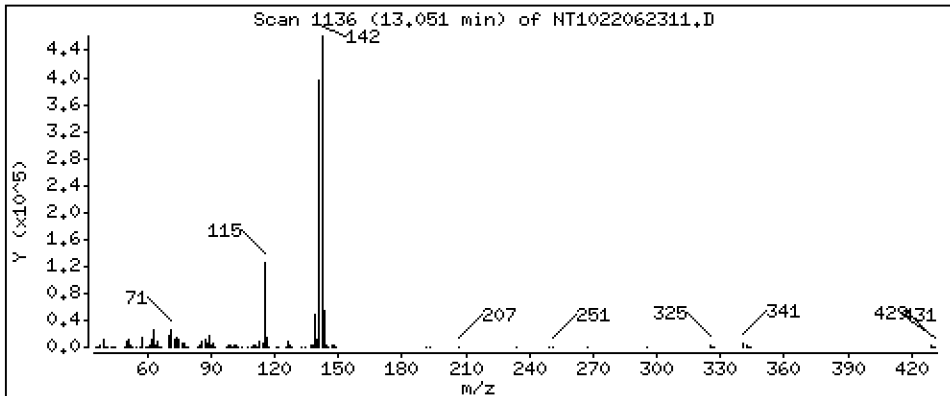
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 5,214 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

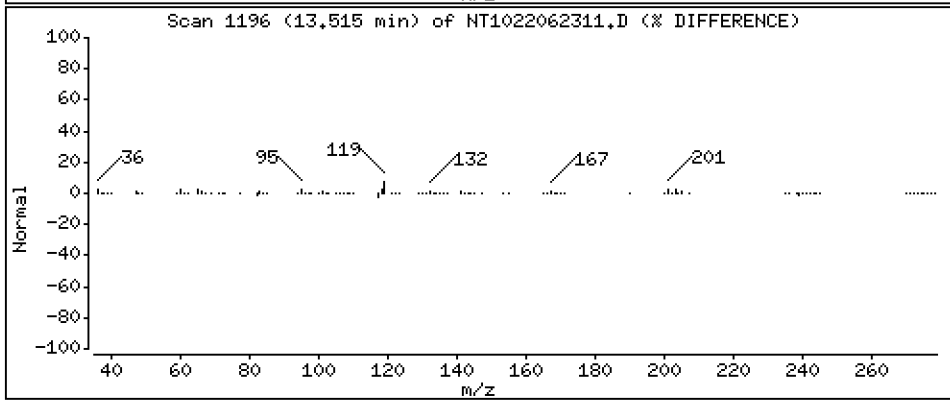
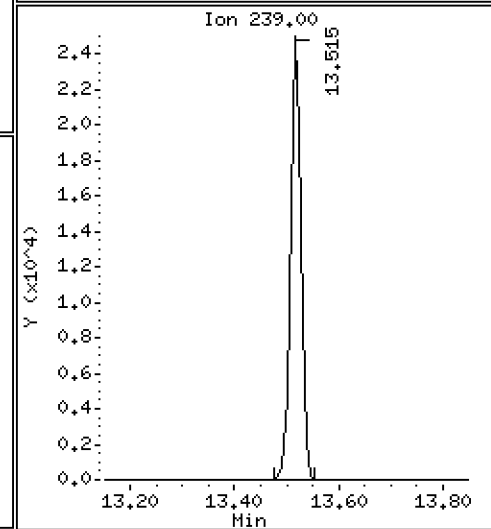
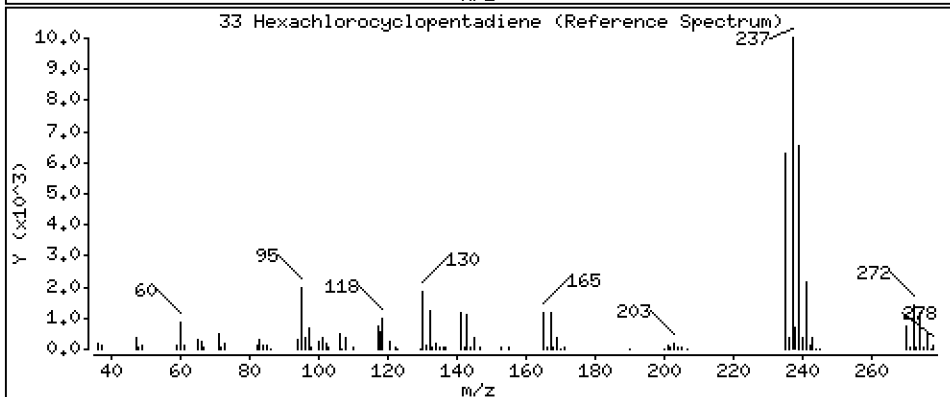
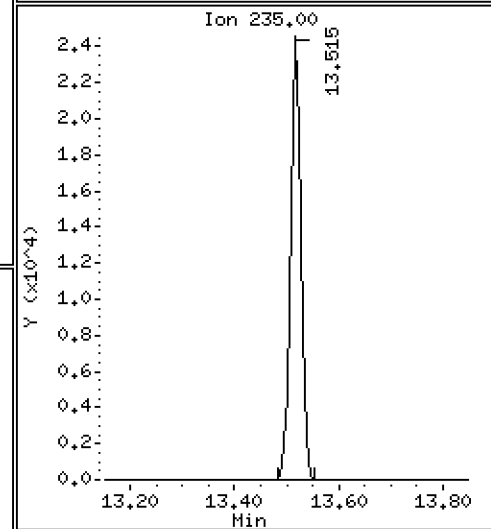
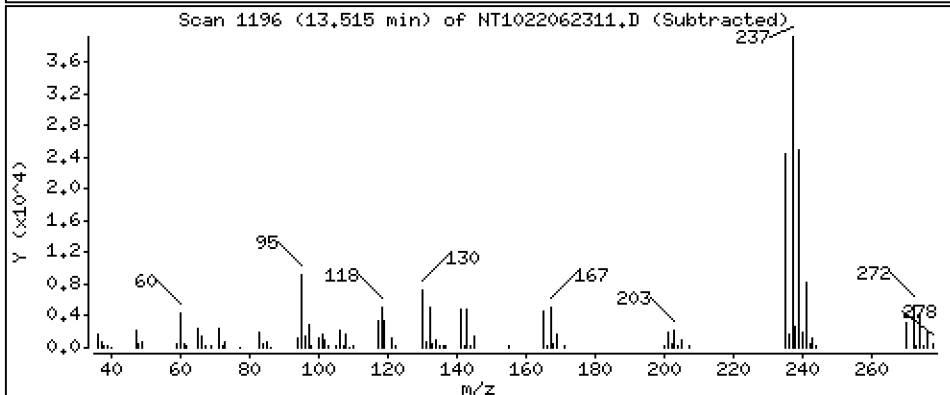
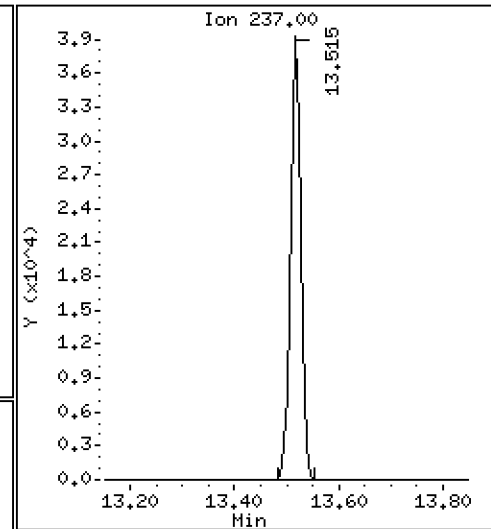
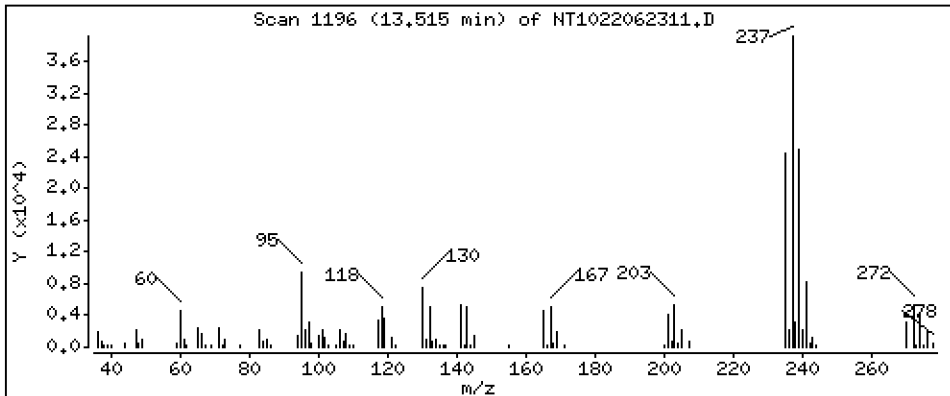
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 3,326 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

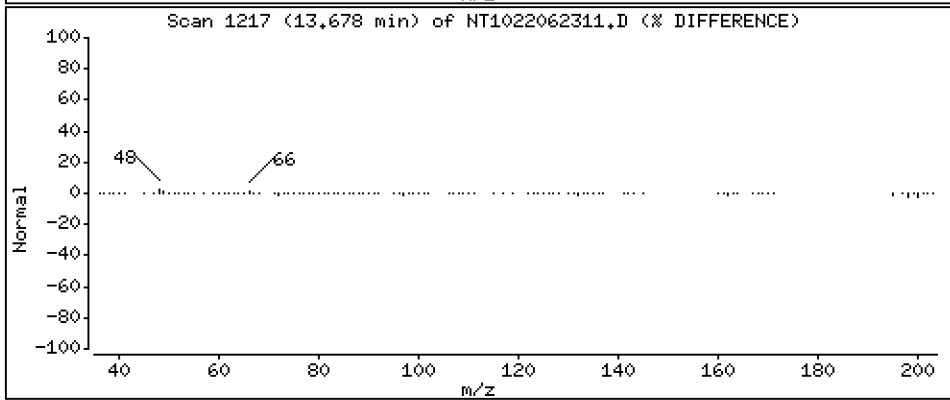
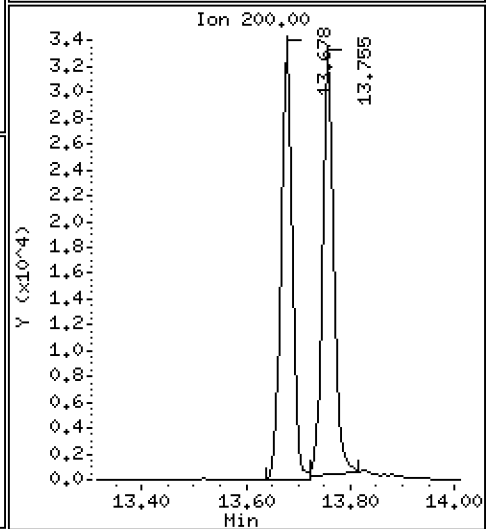
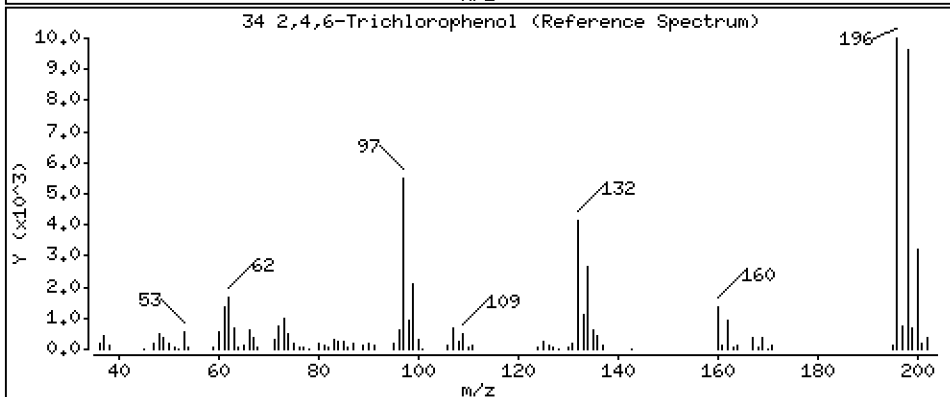
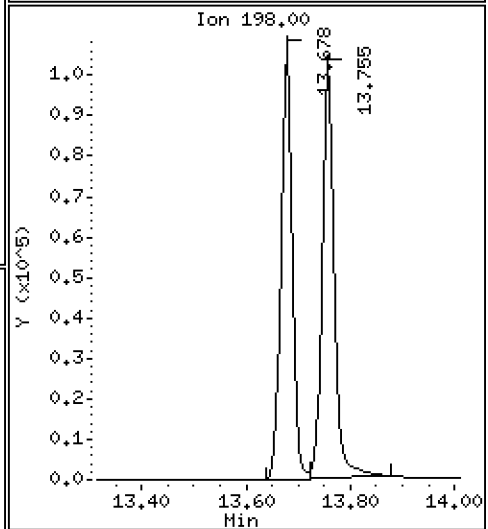
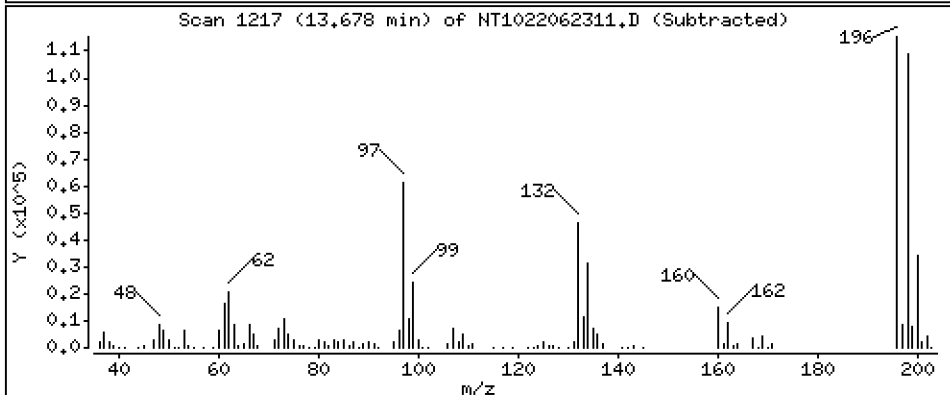
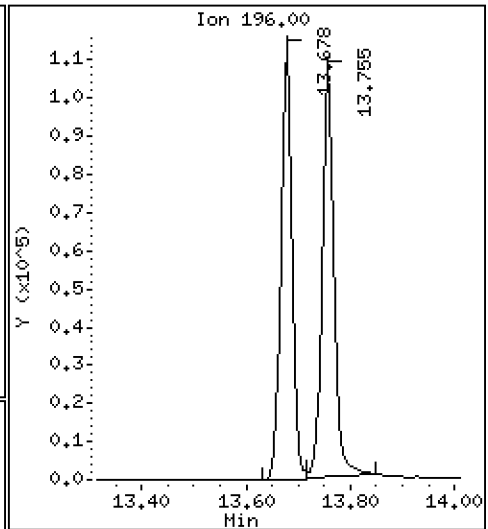
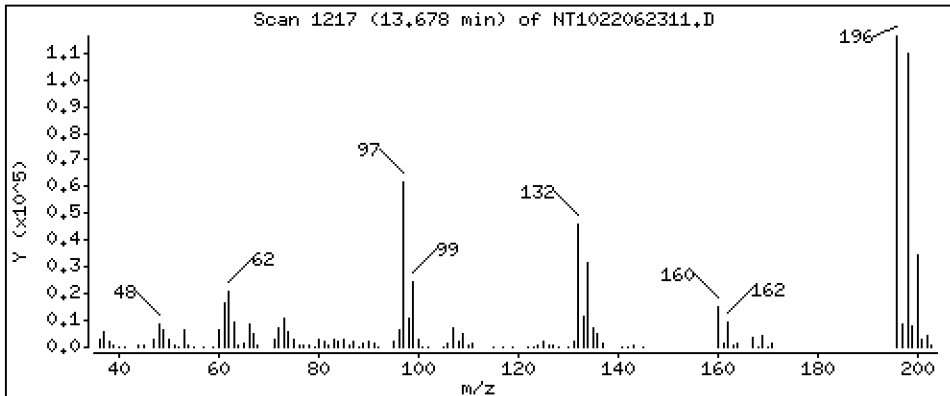
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 5,242 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

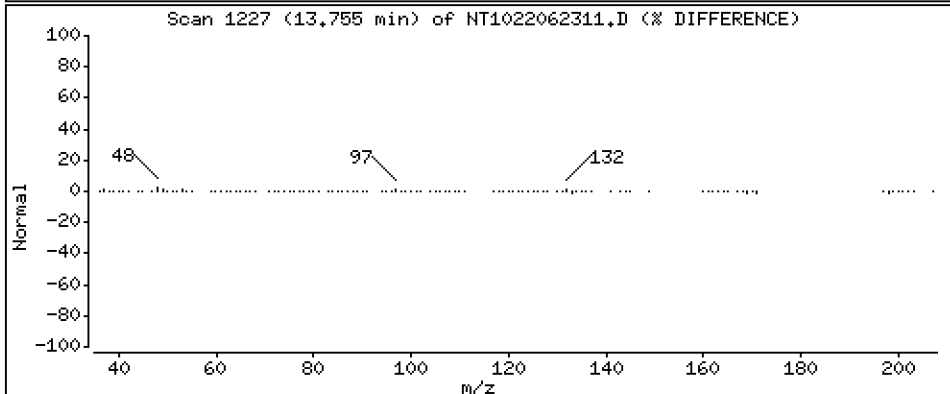
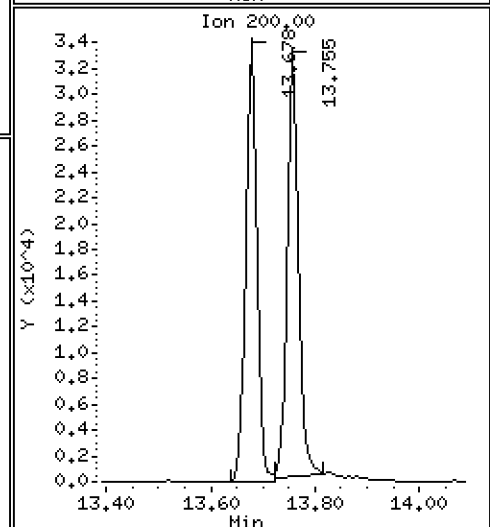
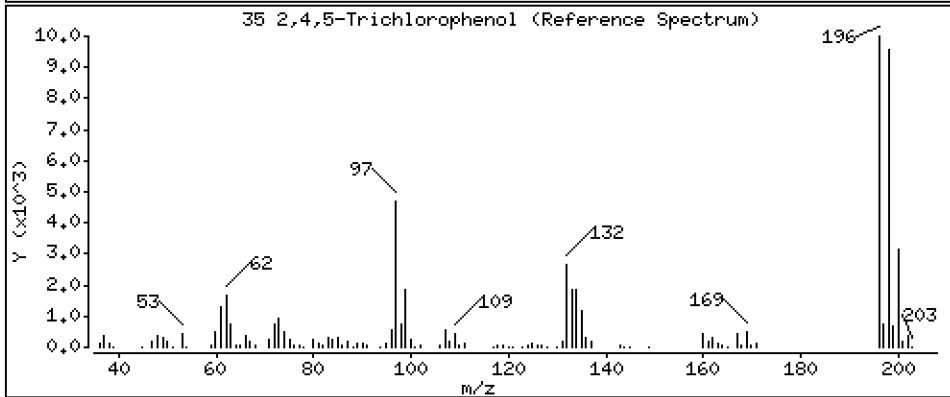
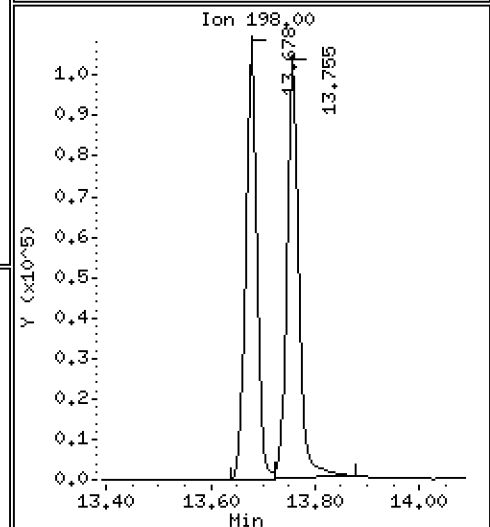
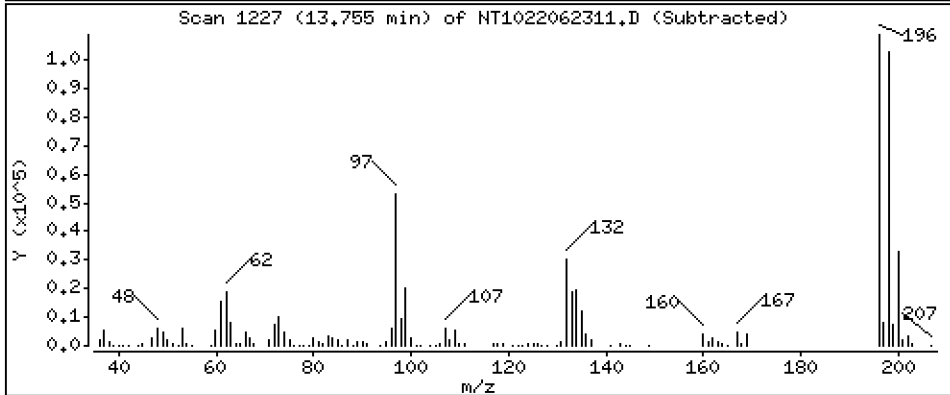
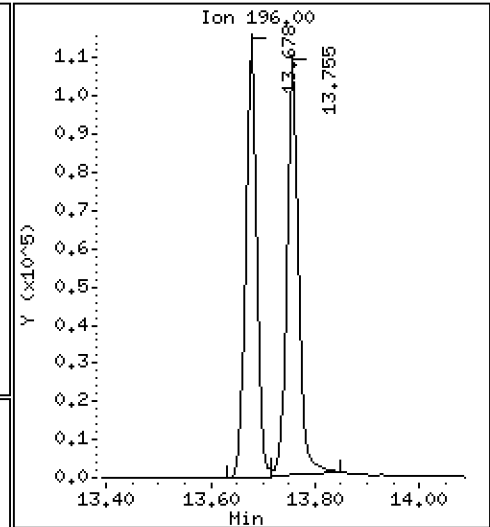
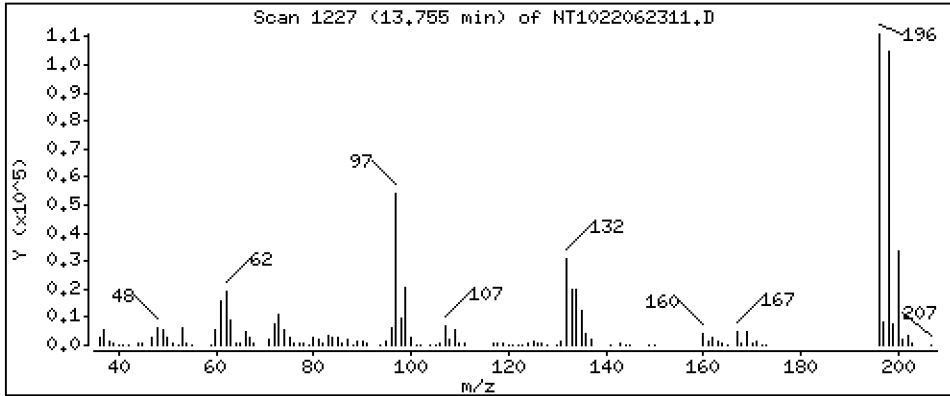
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,427 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

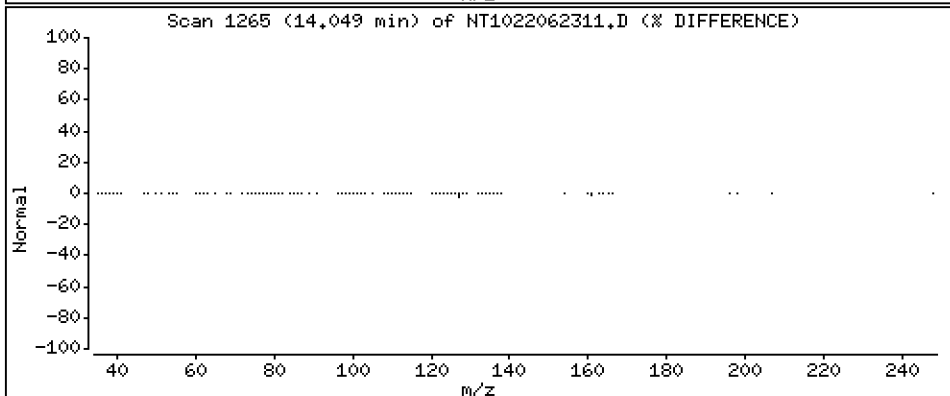
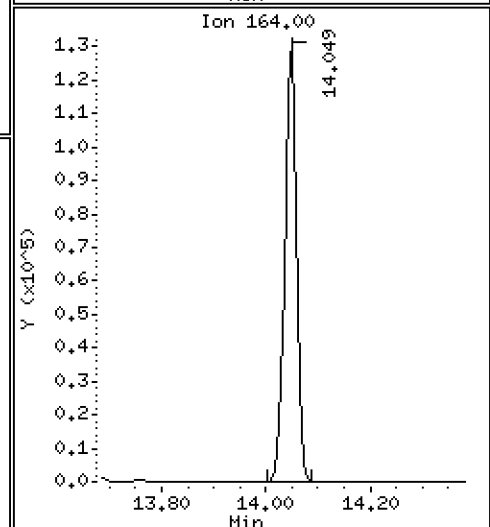
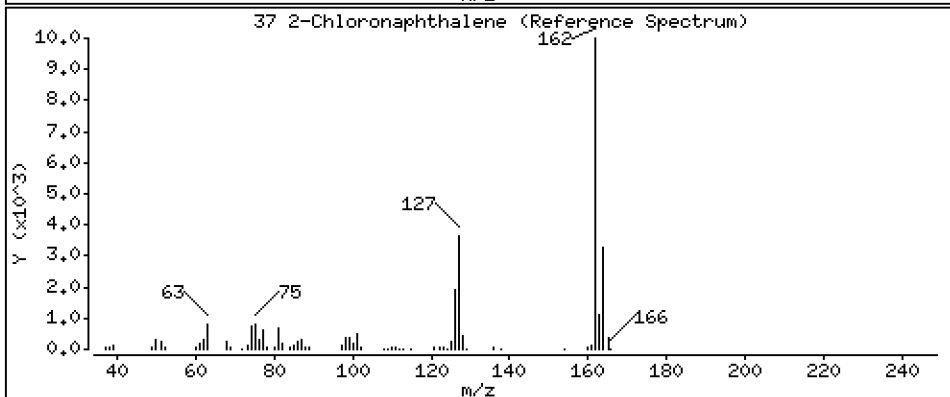
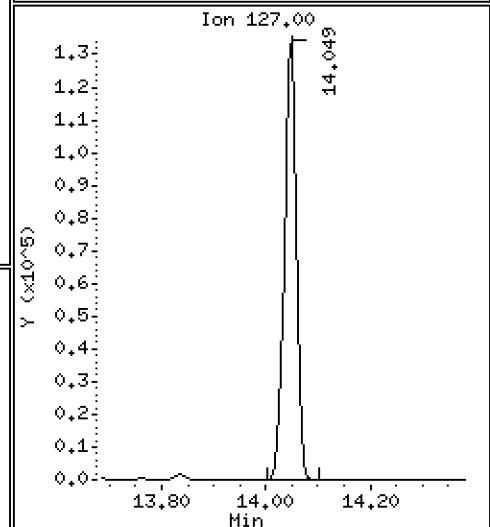
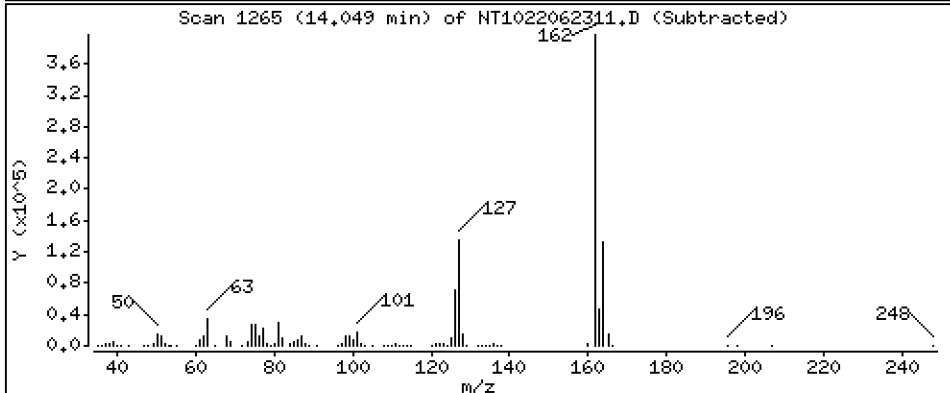
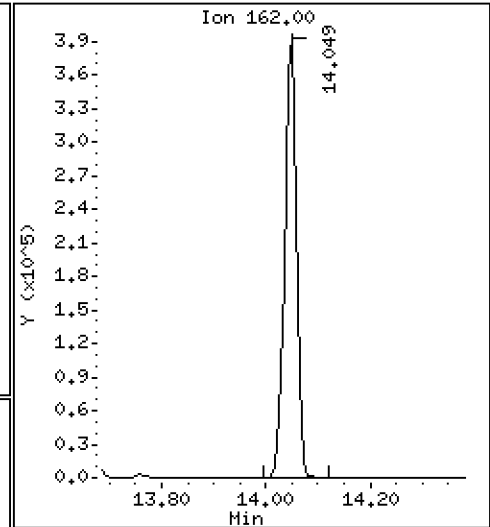
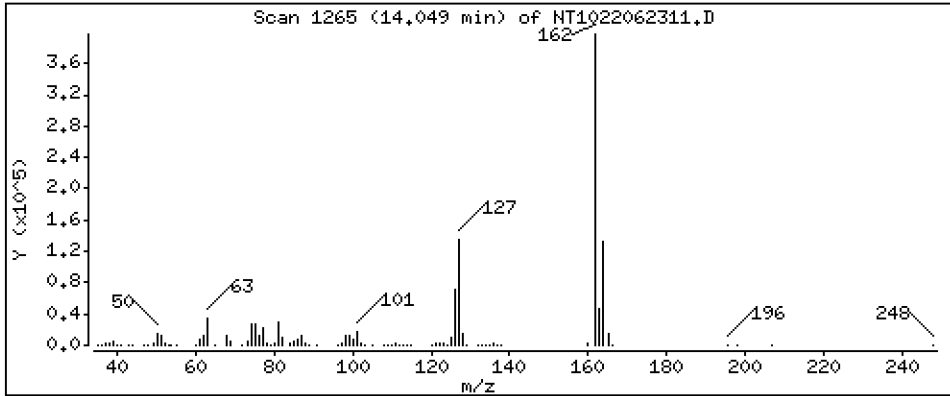
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 5,462 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

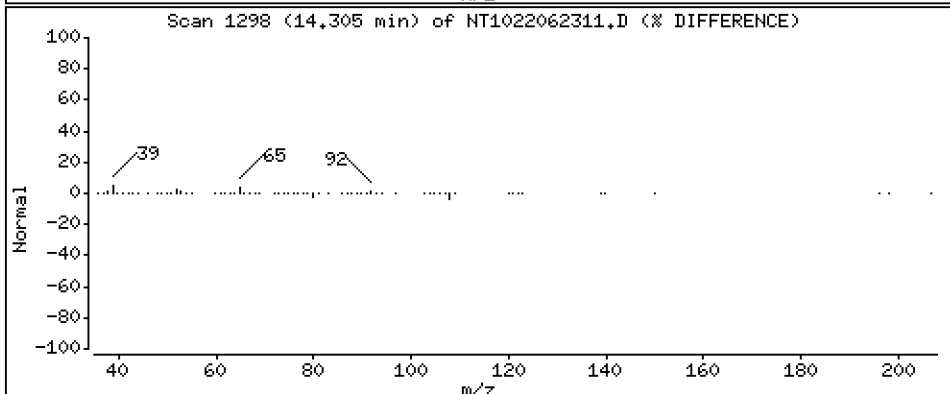
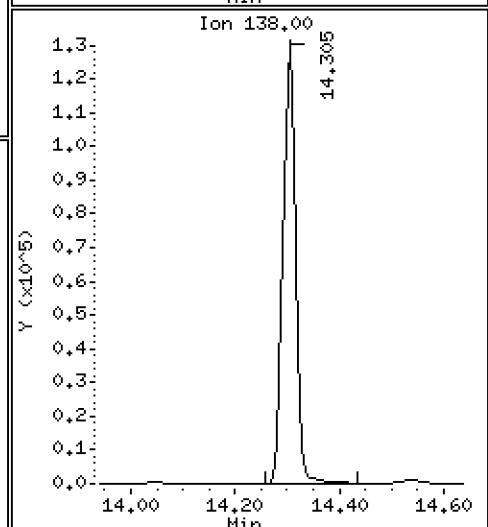
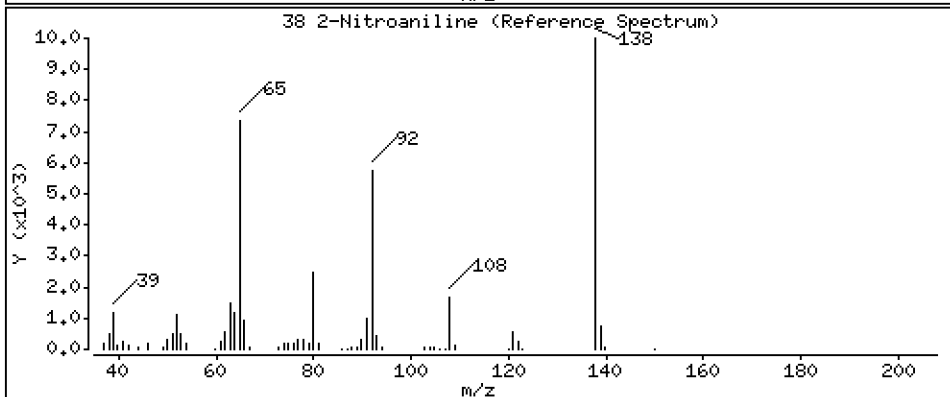
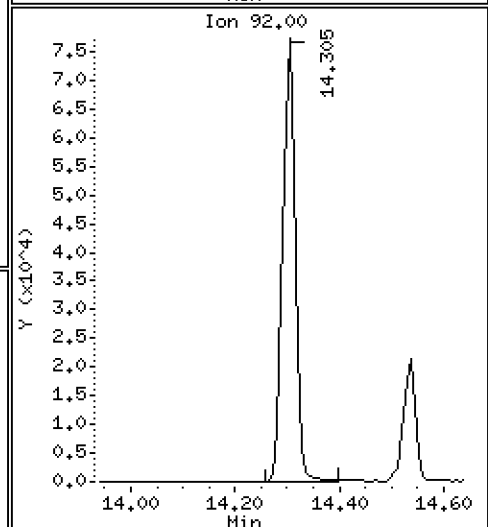
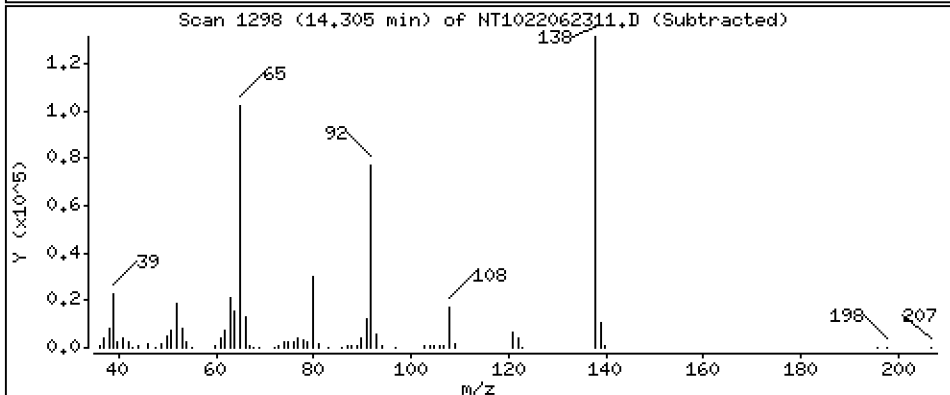
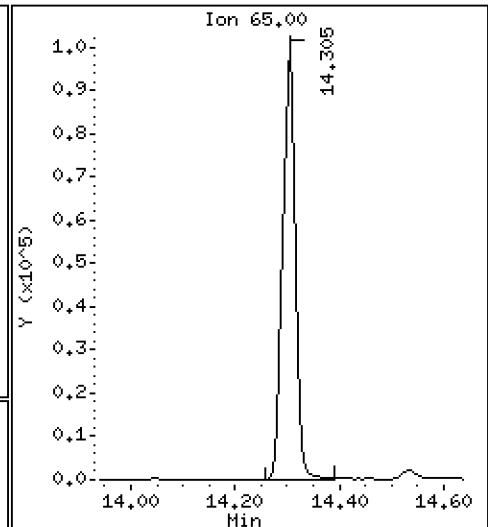
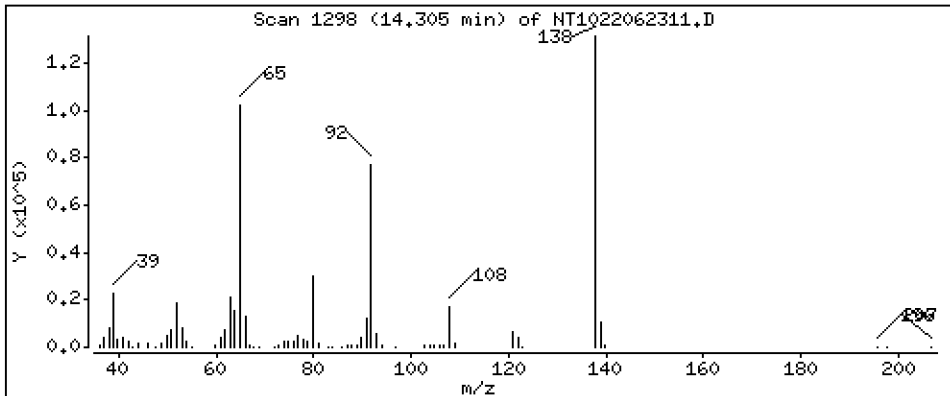
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 5,342 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

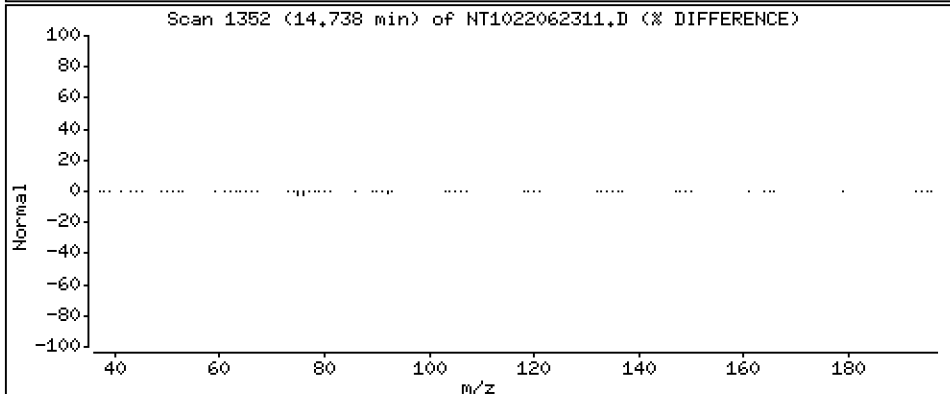
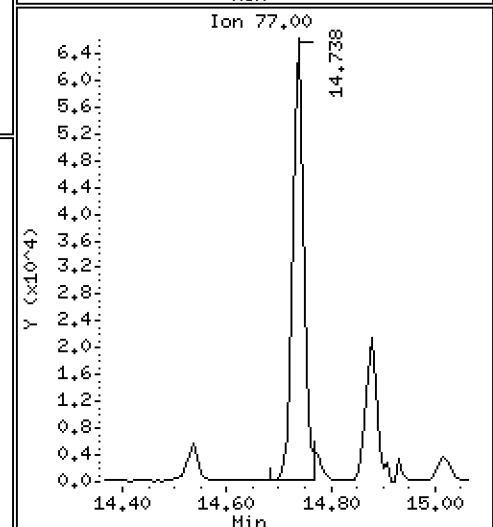
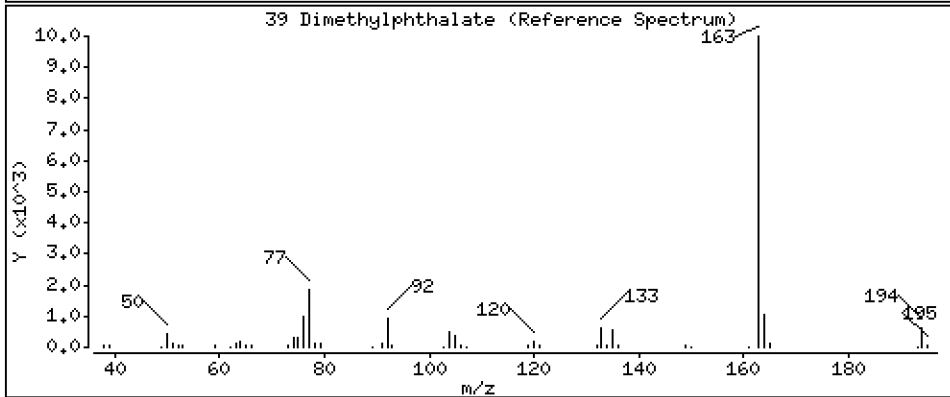
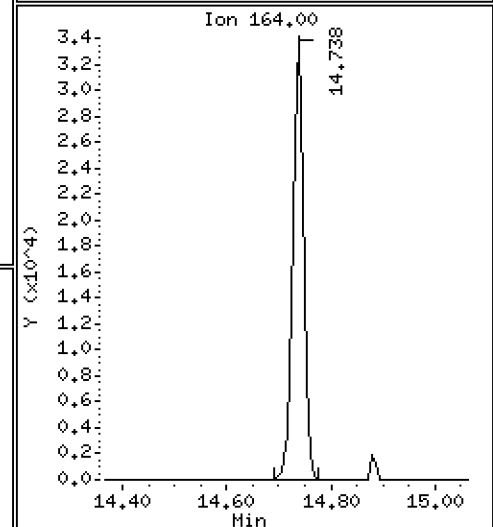
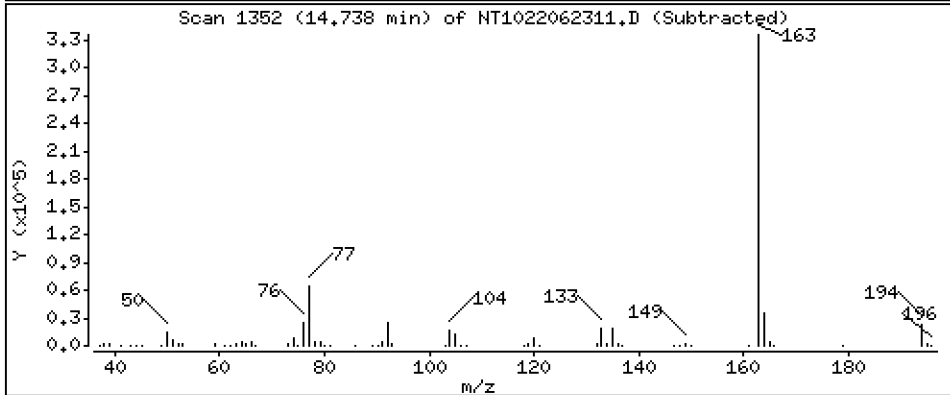
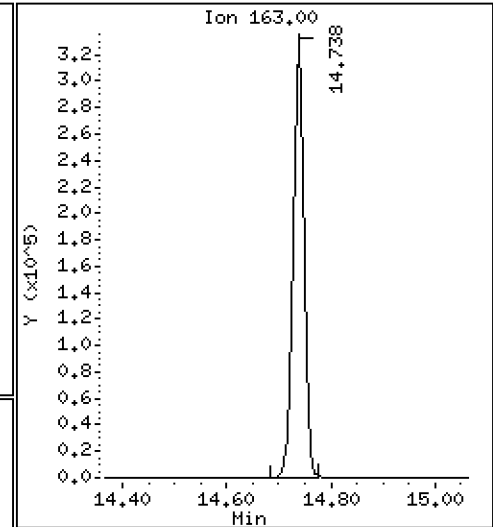
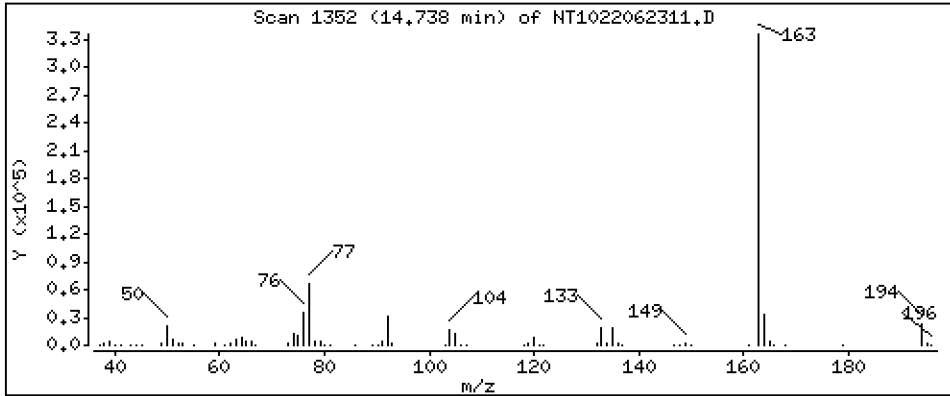
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,973 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

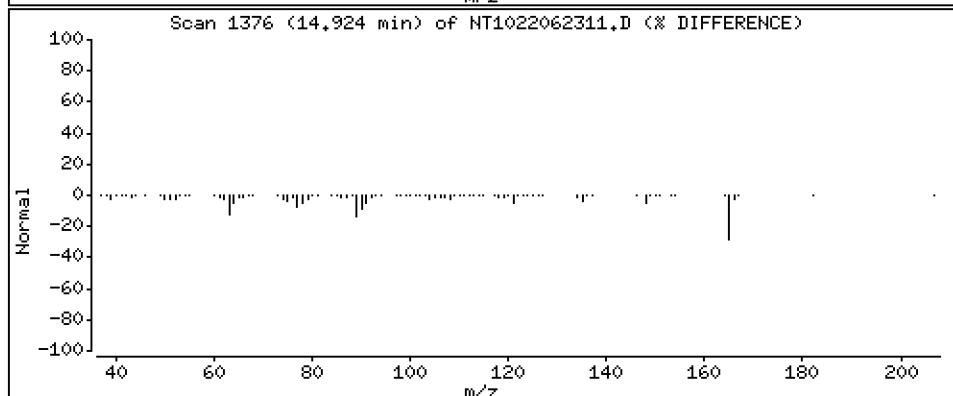
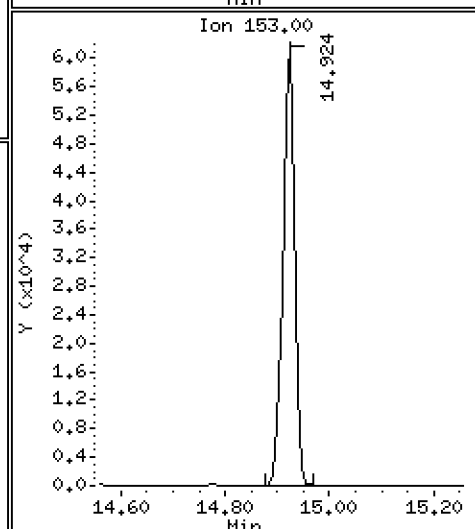
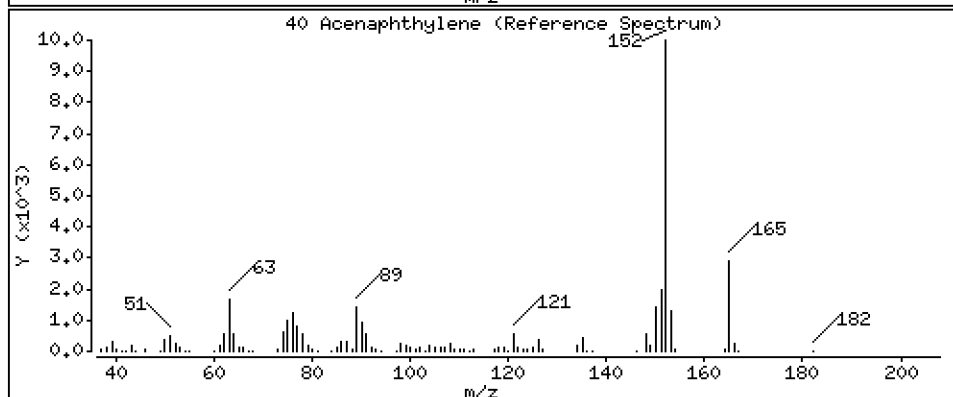
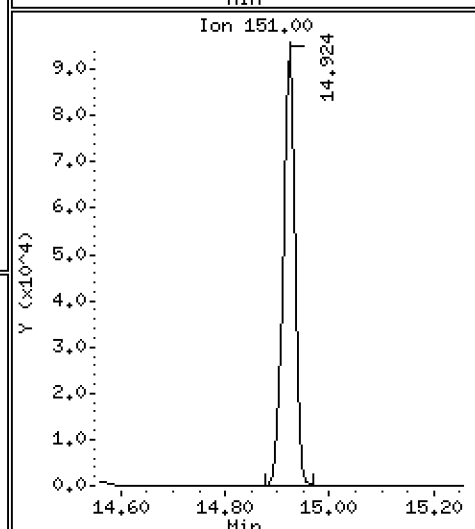
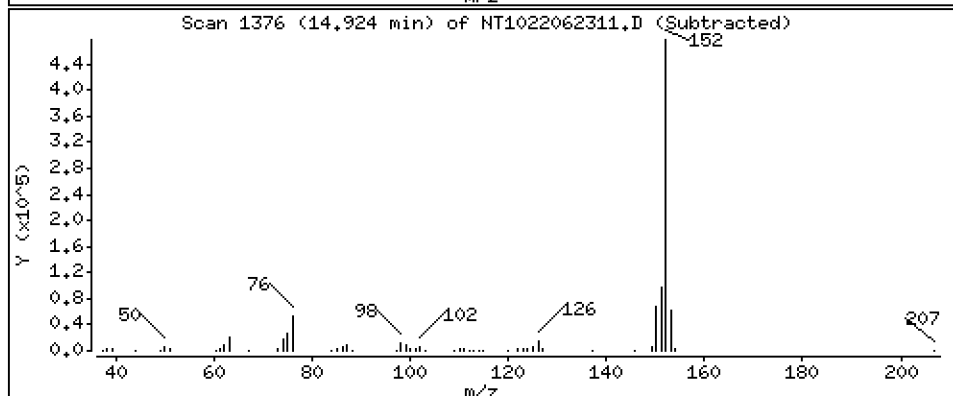
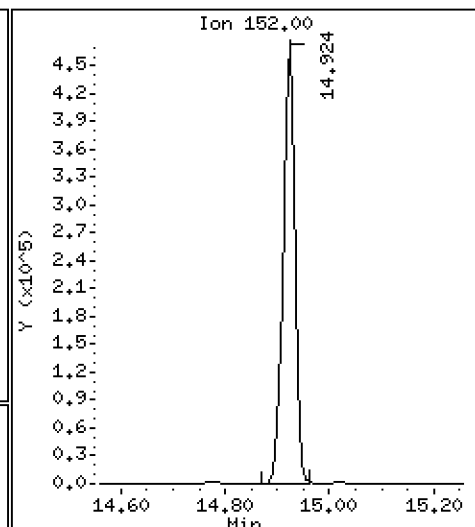
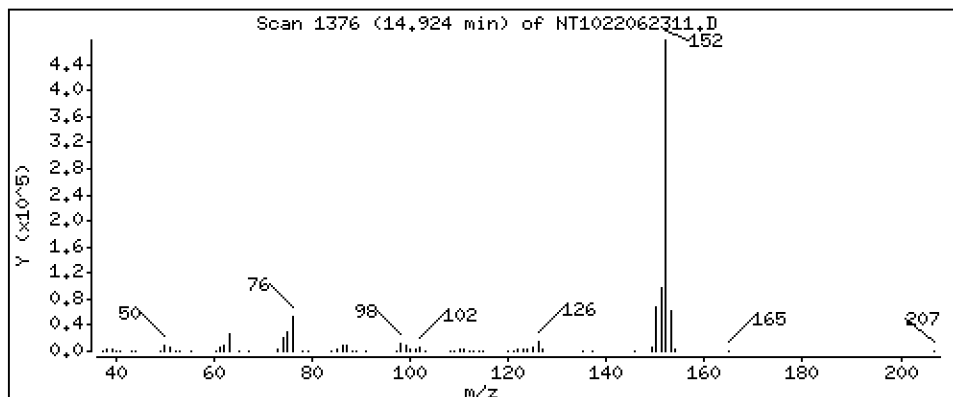
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,476 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

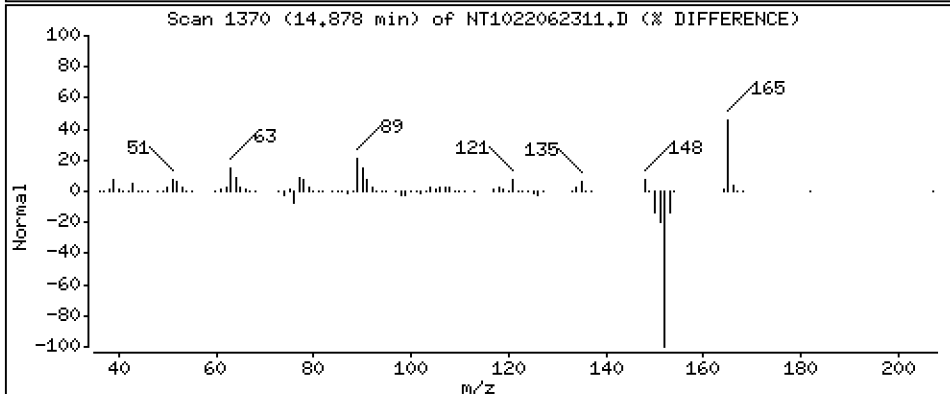
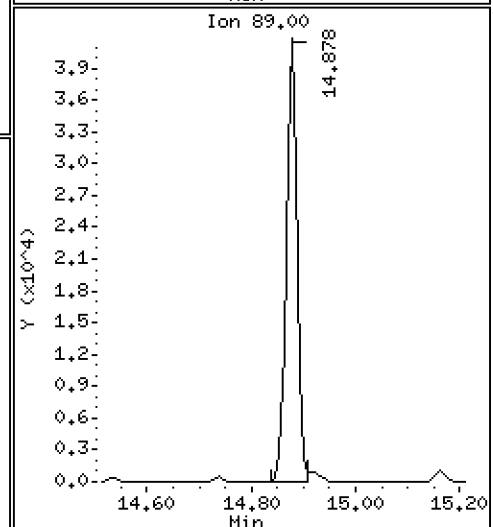
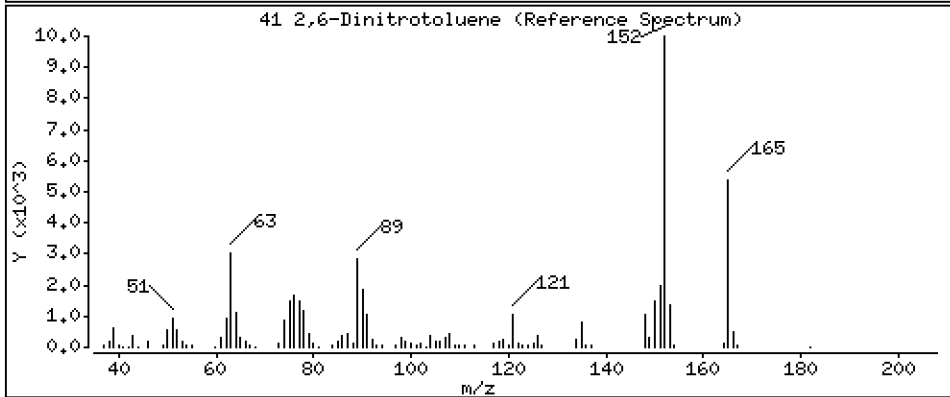
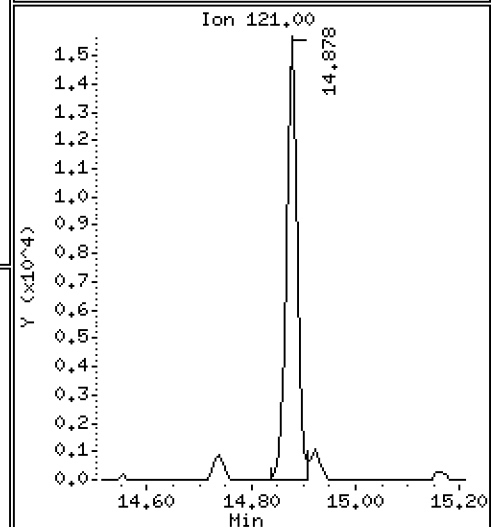
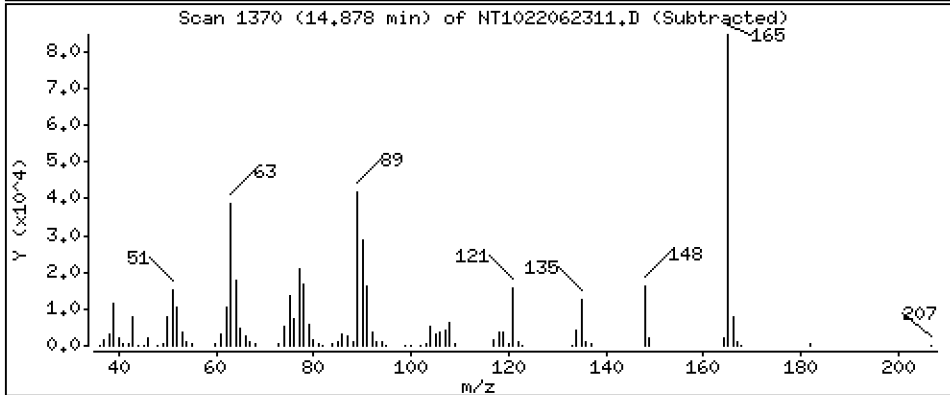
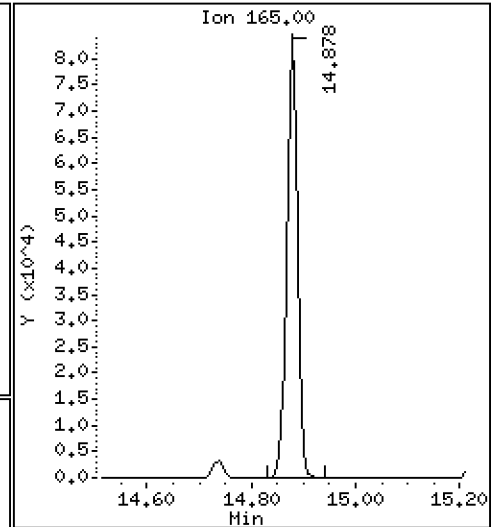
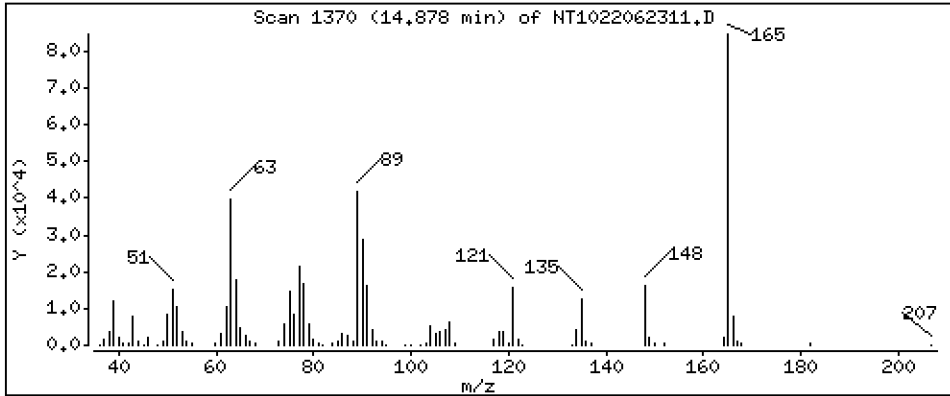
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,256 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

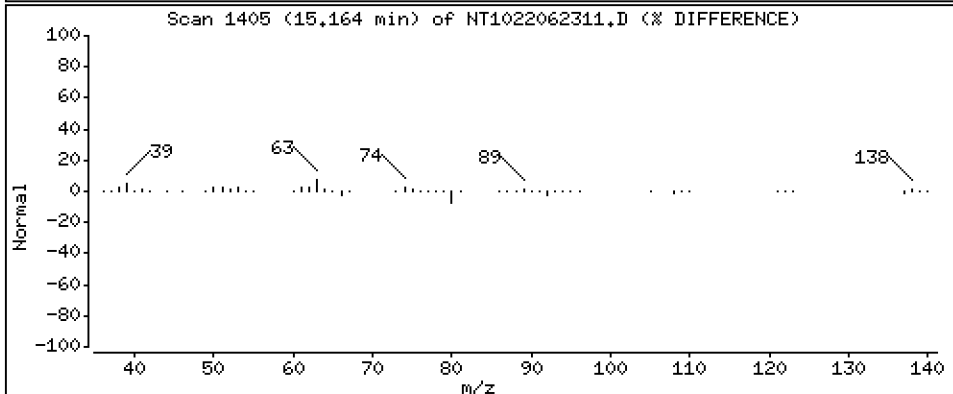
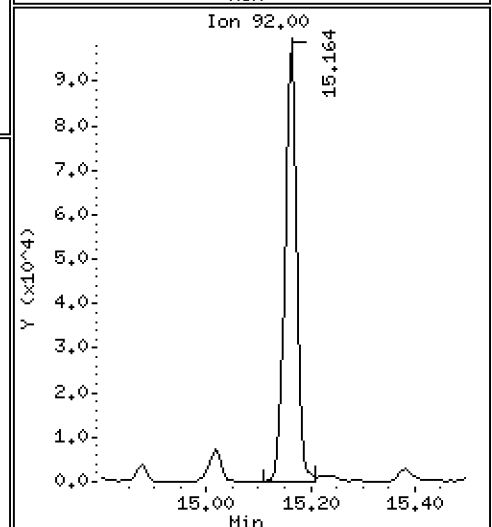
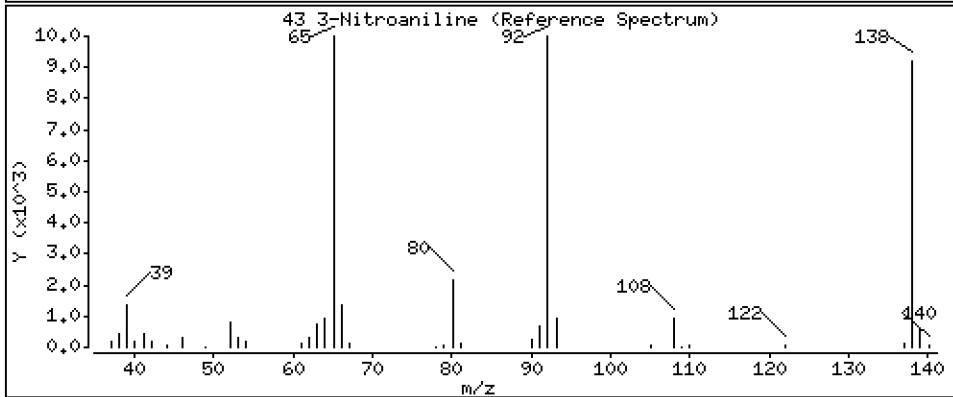
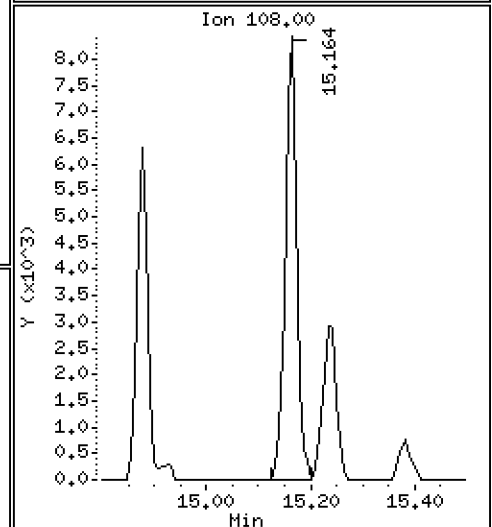
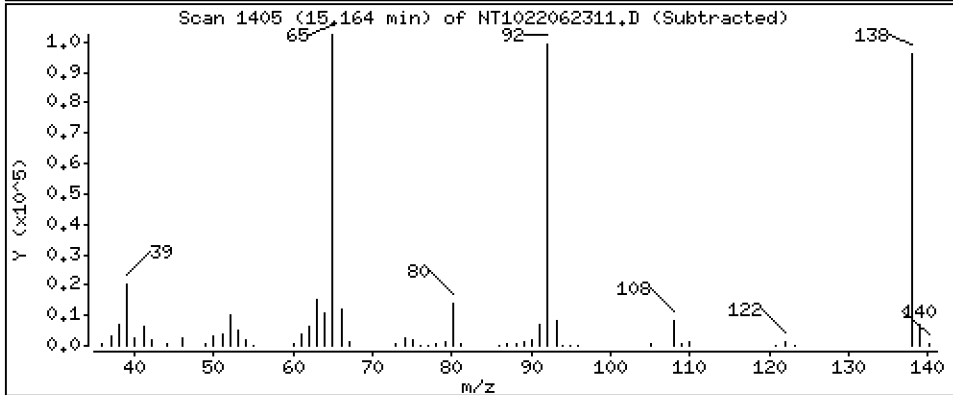
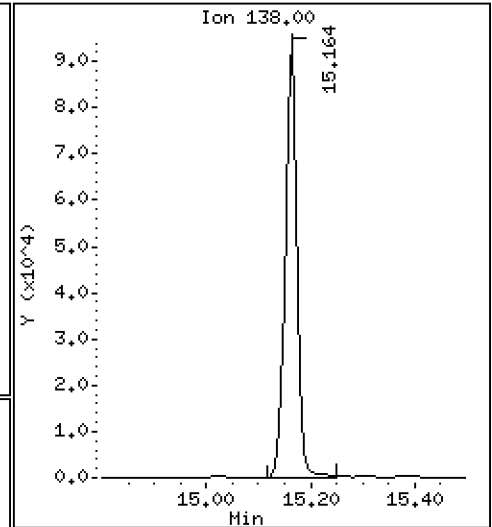
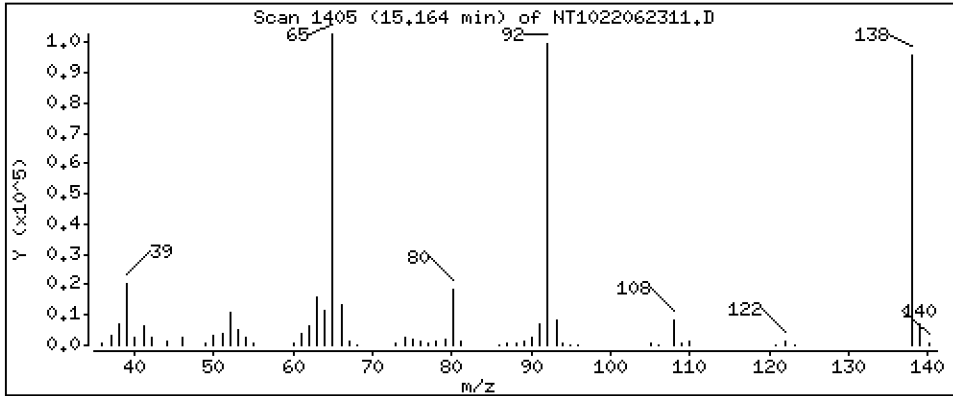
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 5,379 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

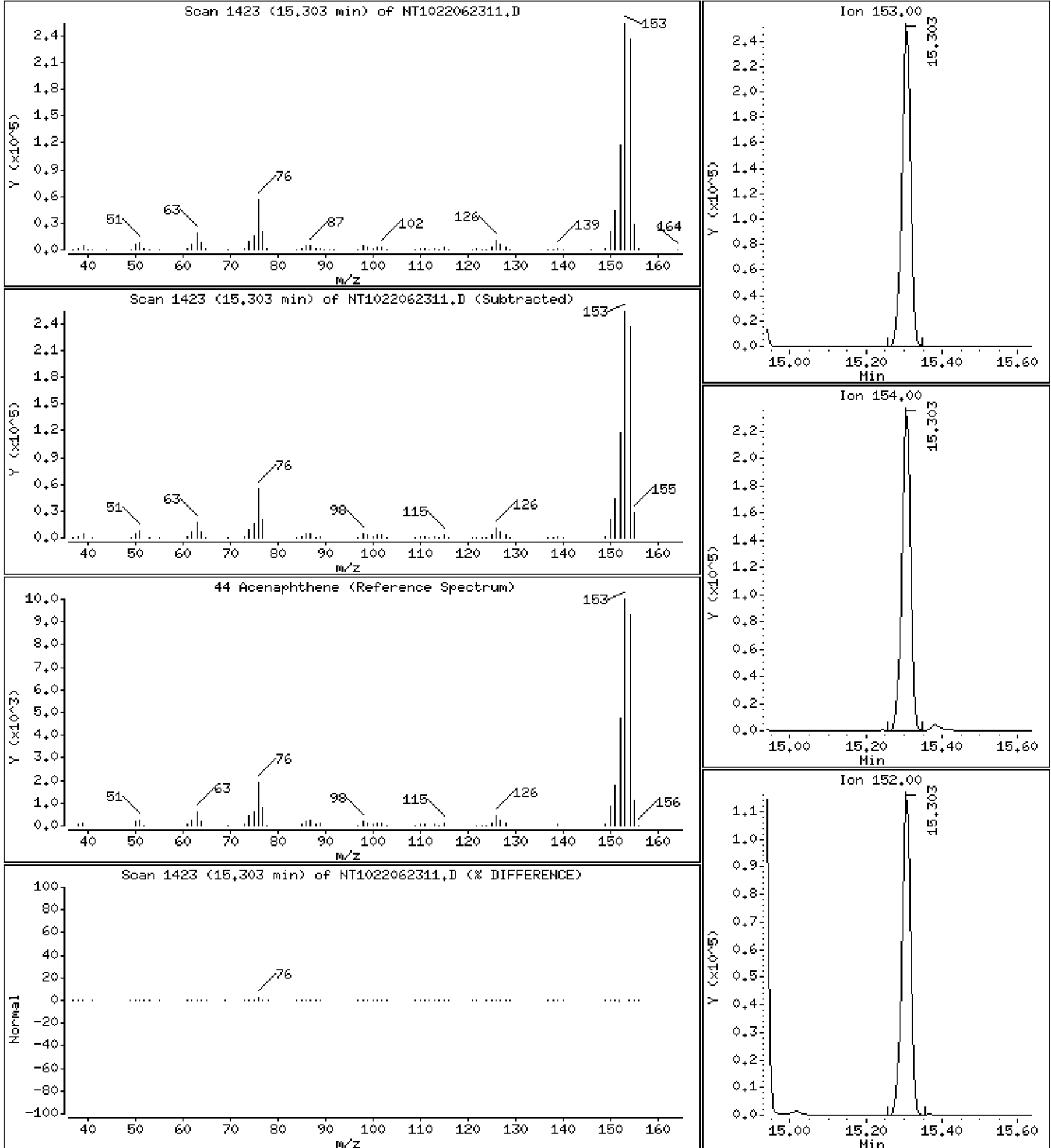
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,939 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

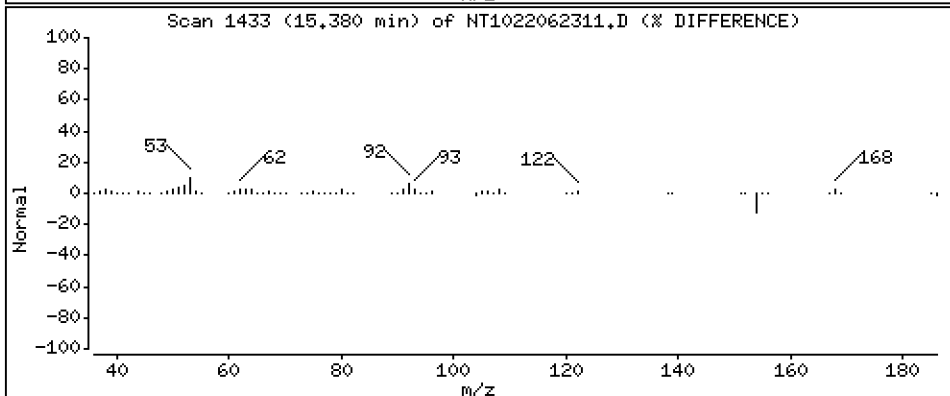
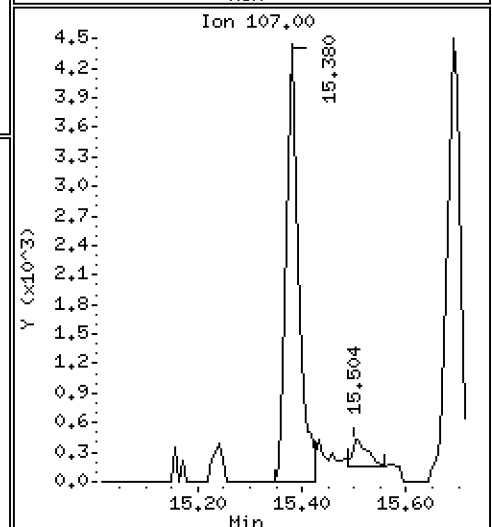
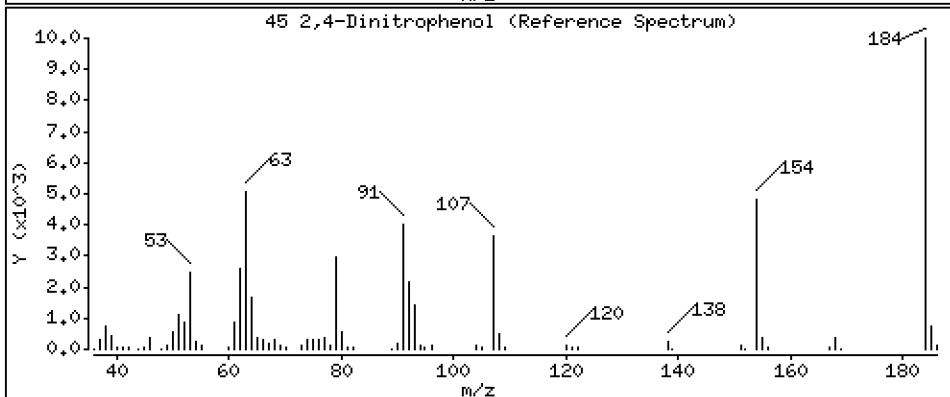
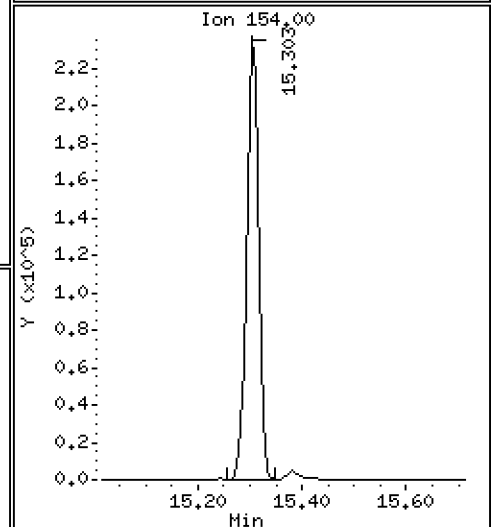
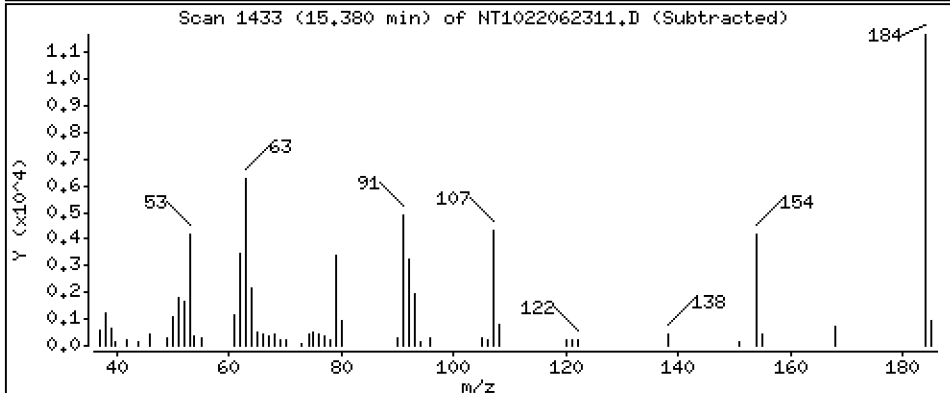
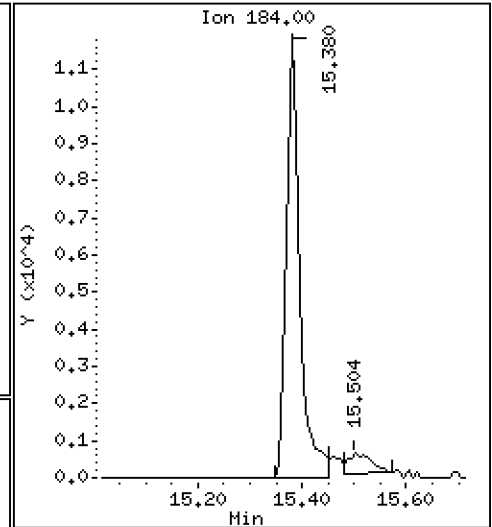
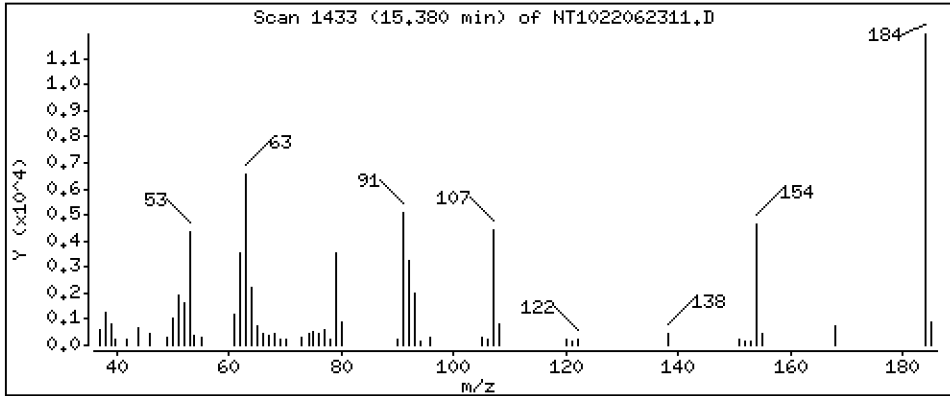
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 2,023 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

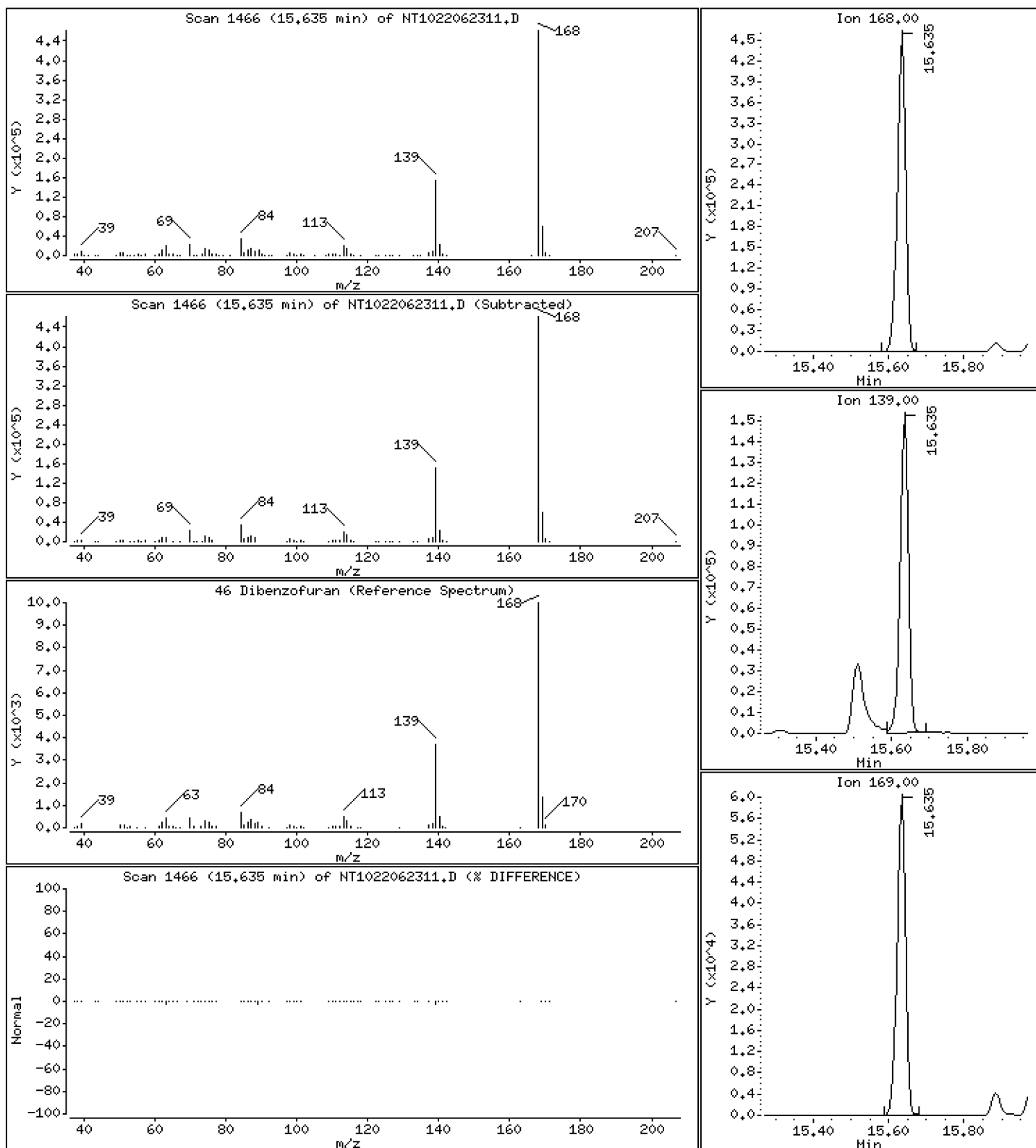
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 5,340 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

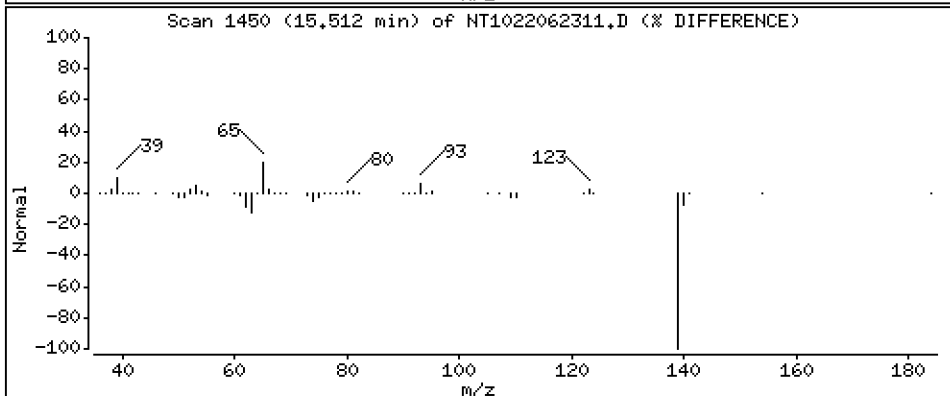
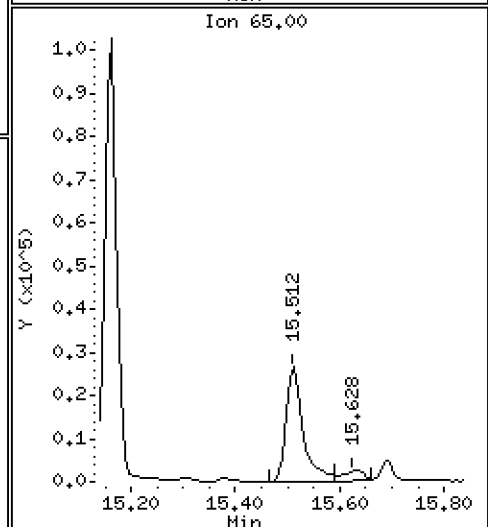
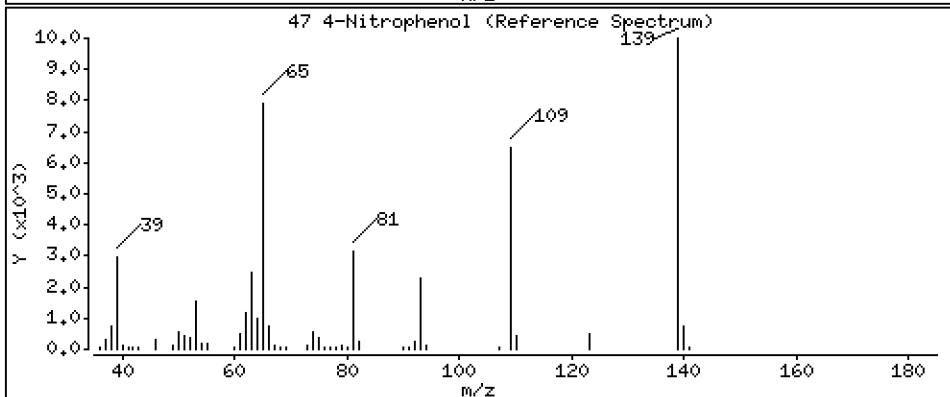
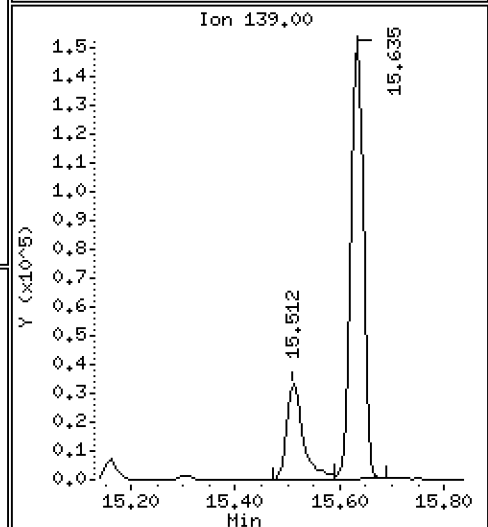
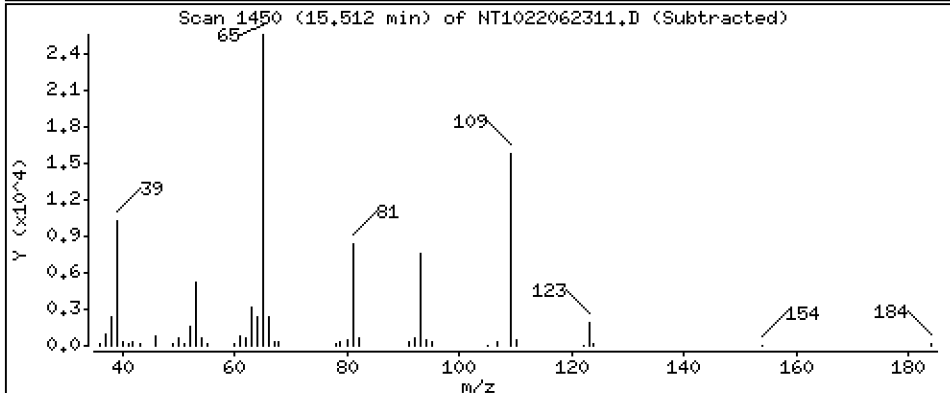
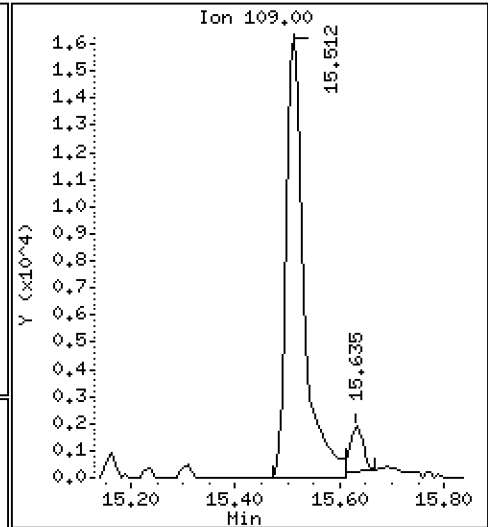
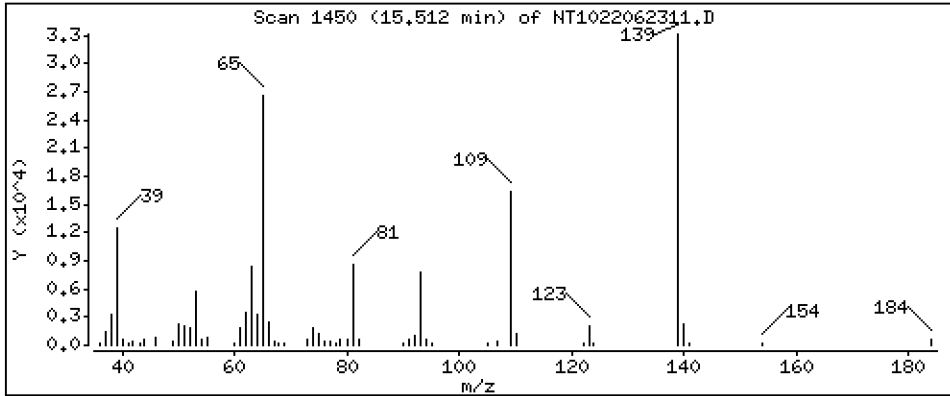
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 4.435 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

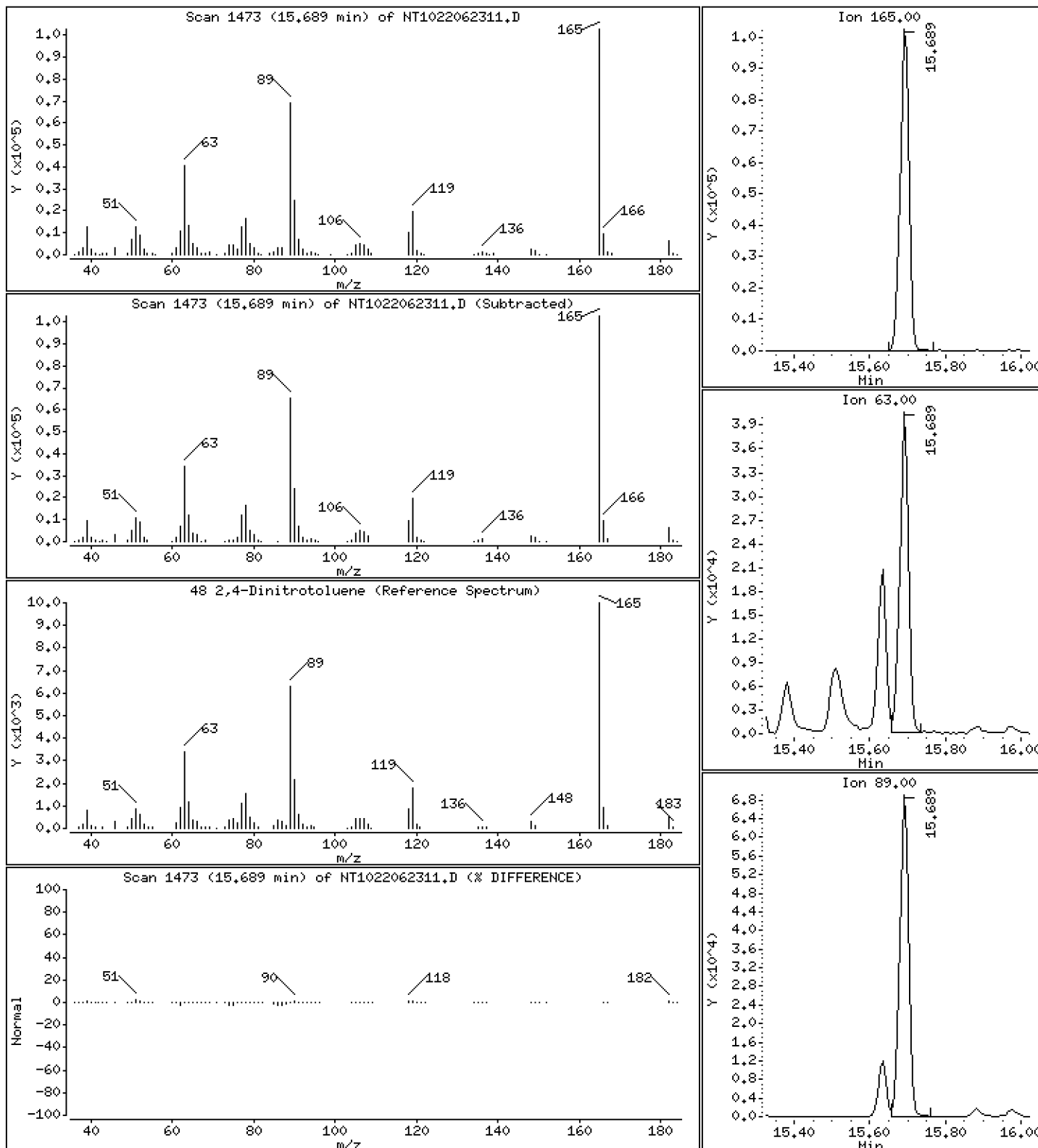
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 5,308 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

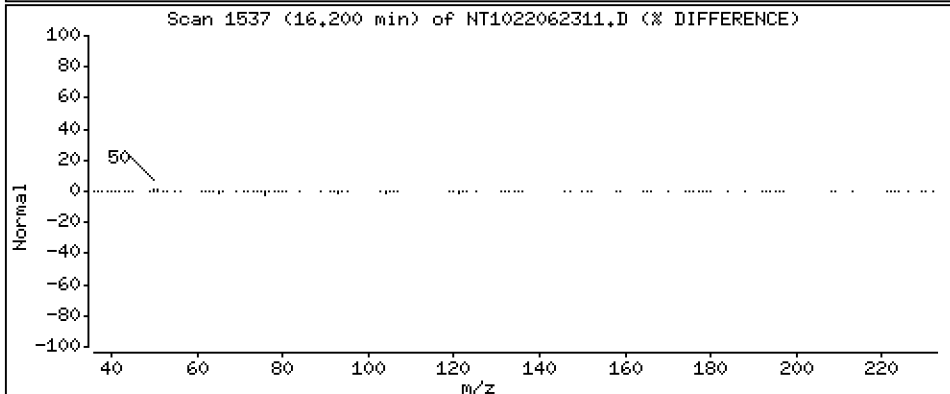
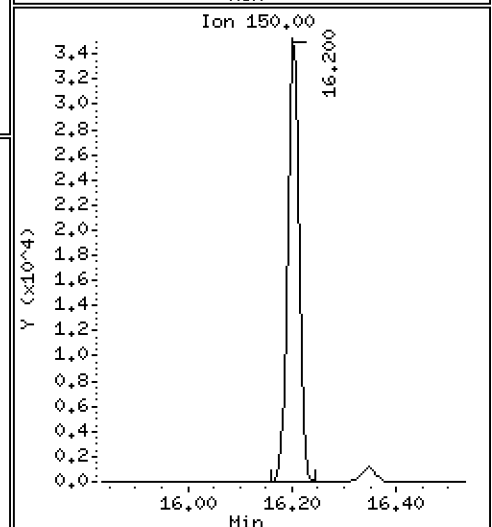
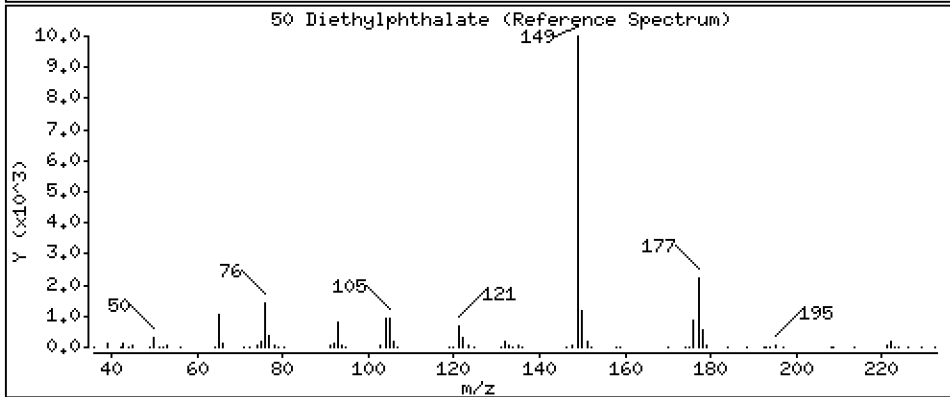
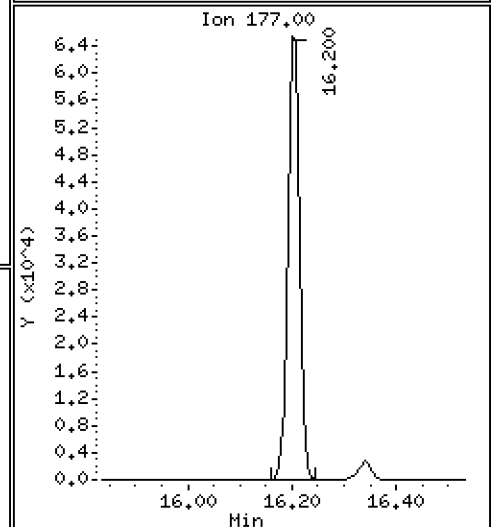
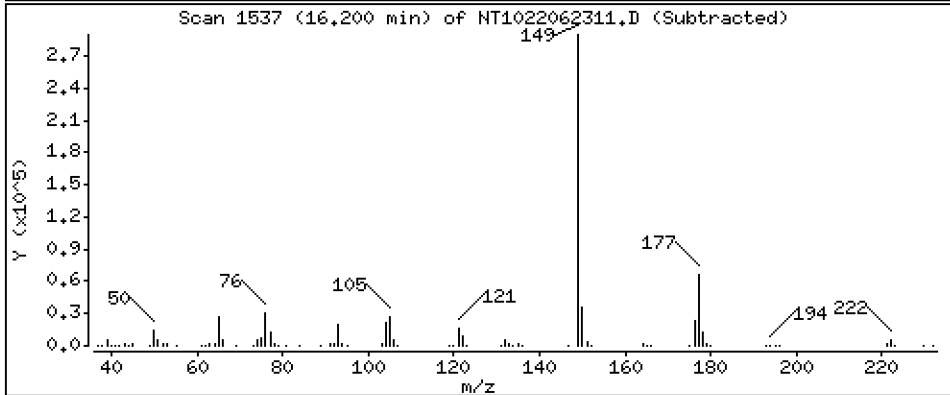
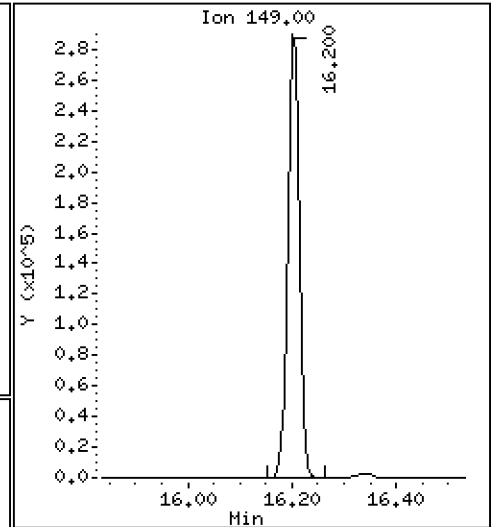
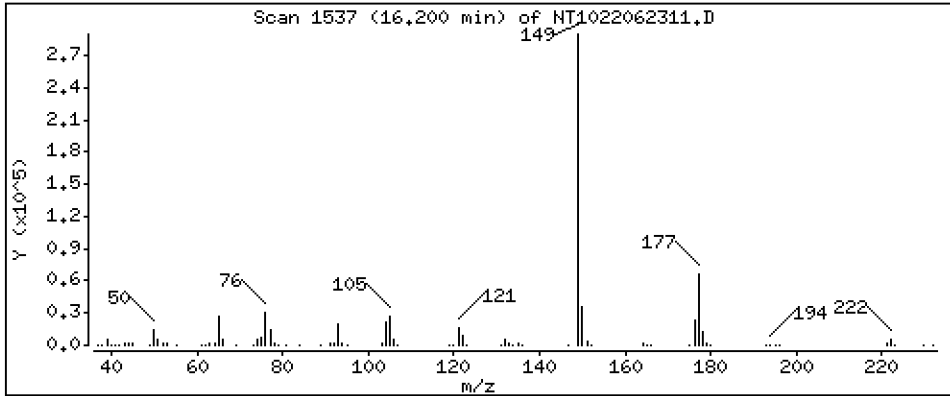
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,372 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

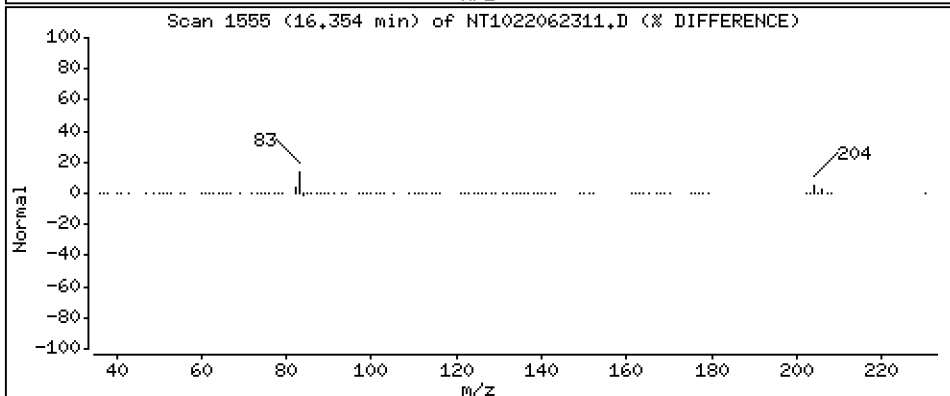
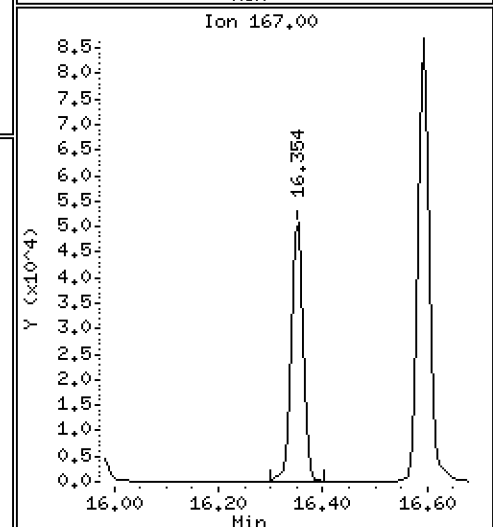
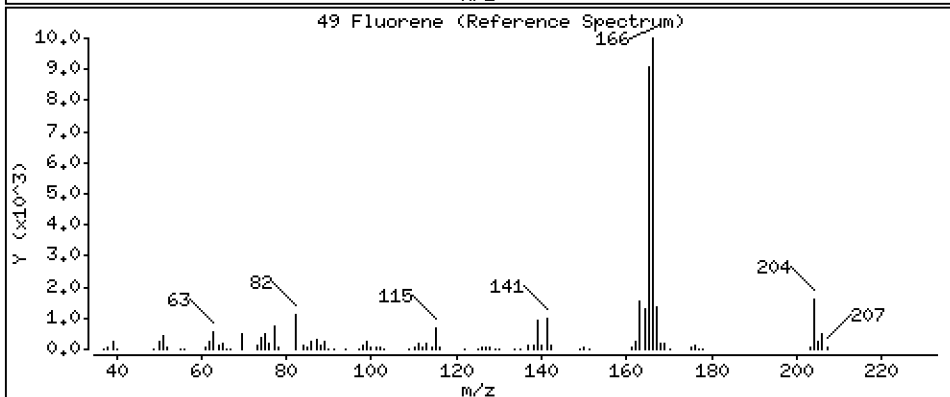
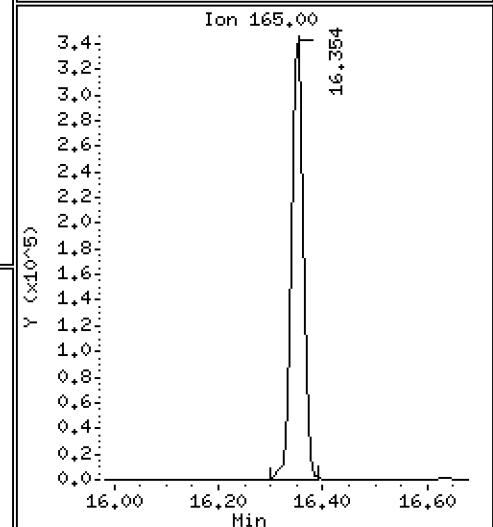
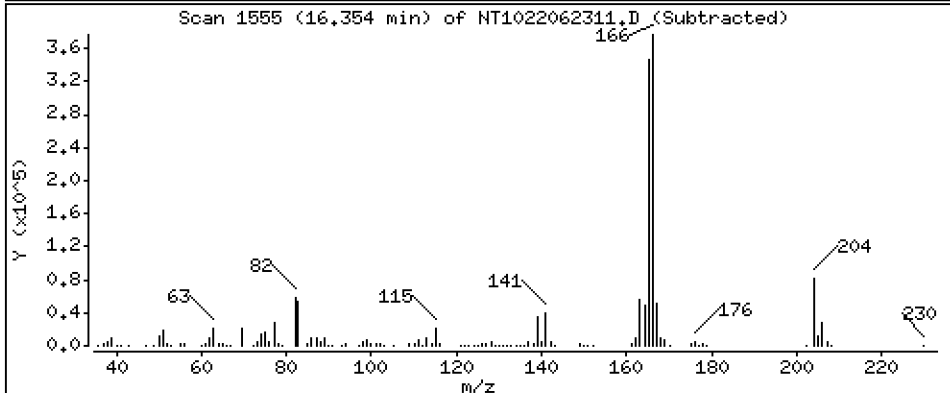
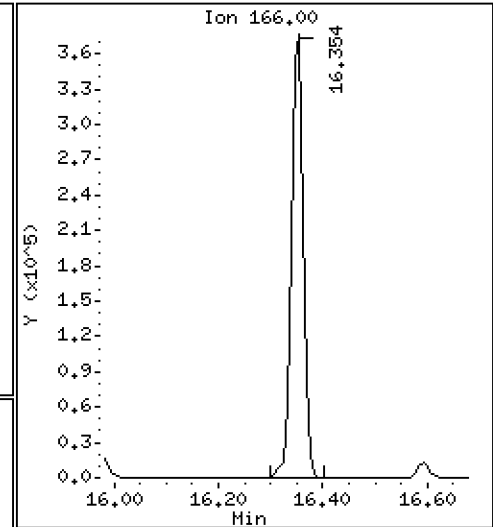
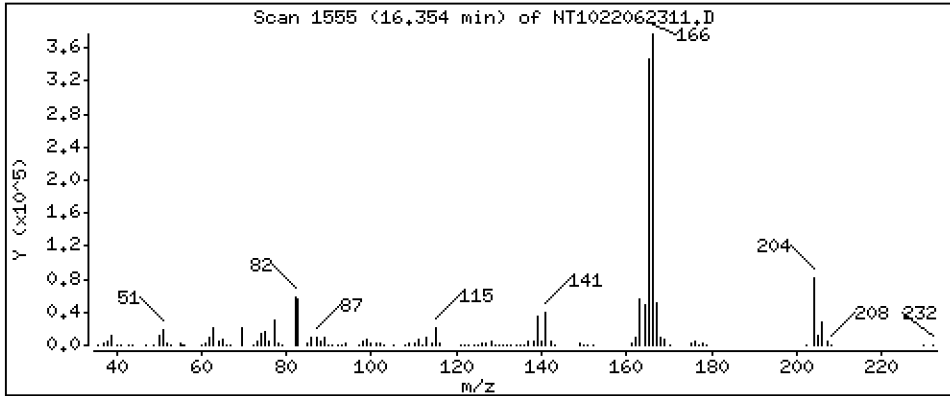
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 4.594 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

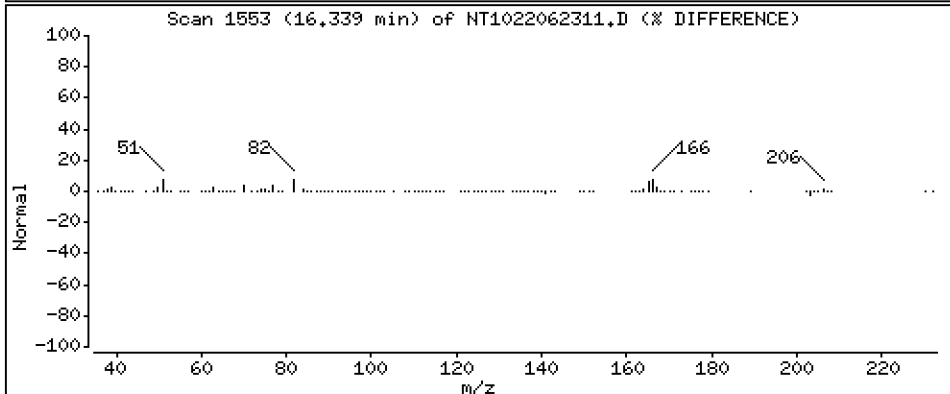
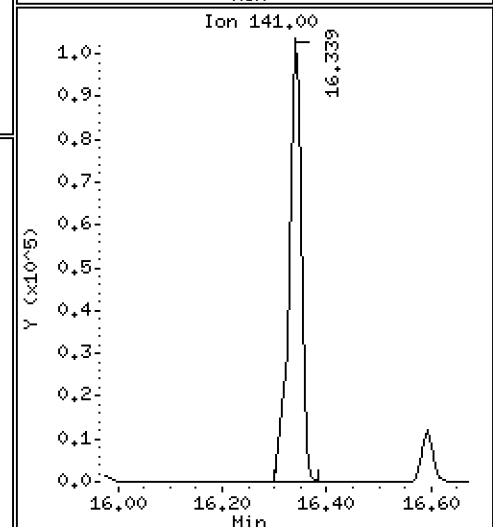
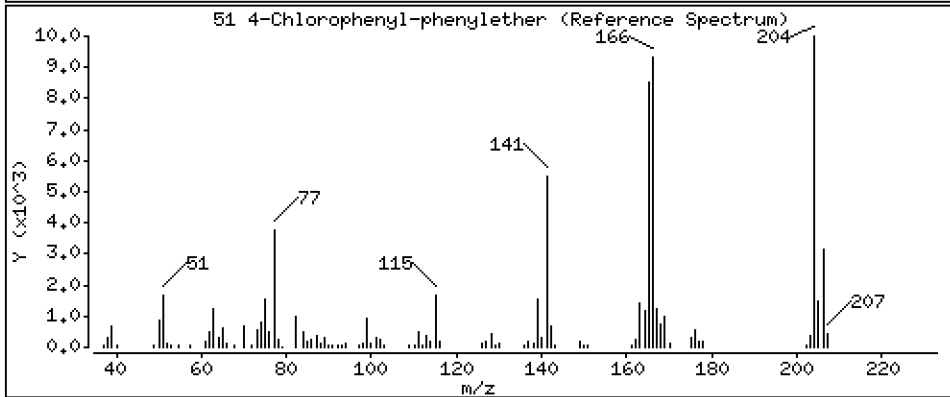
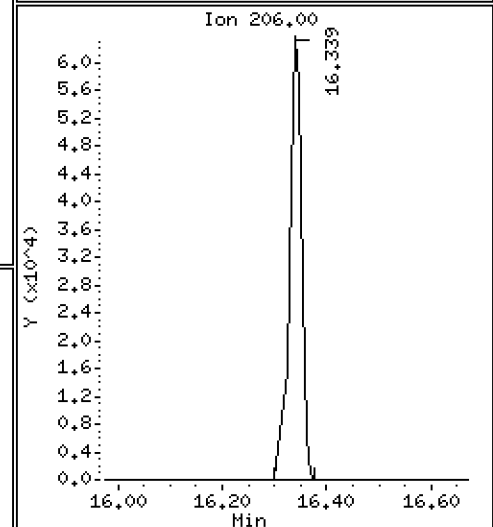
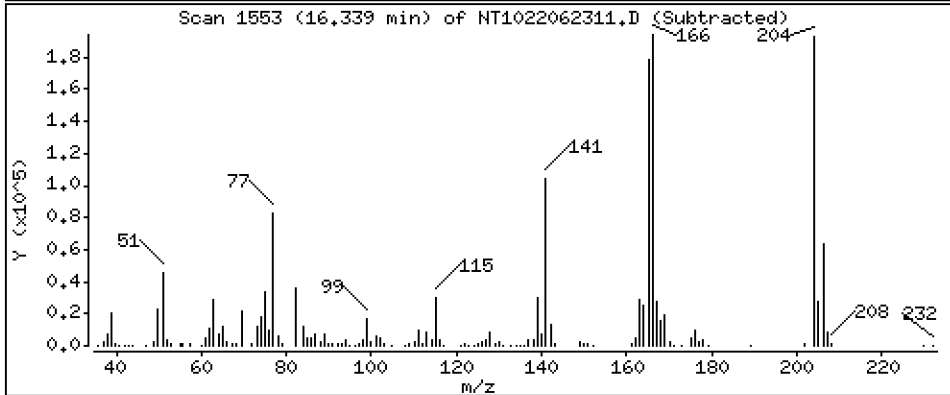
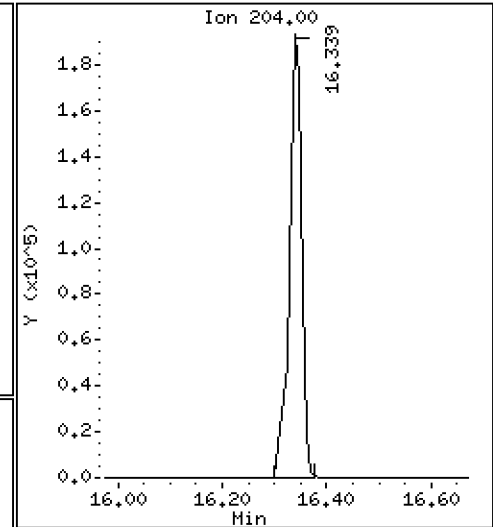
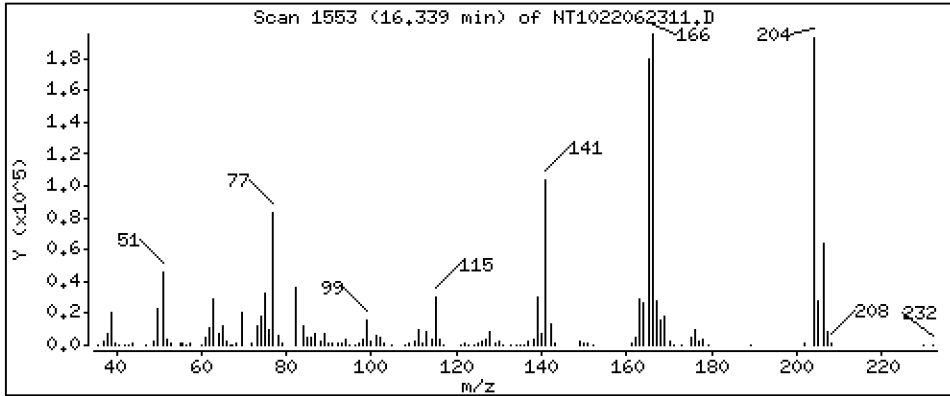
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 5,407 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

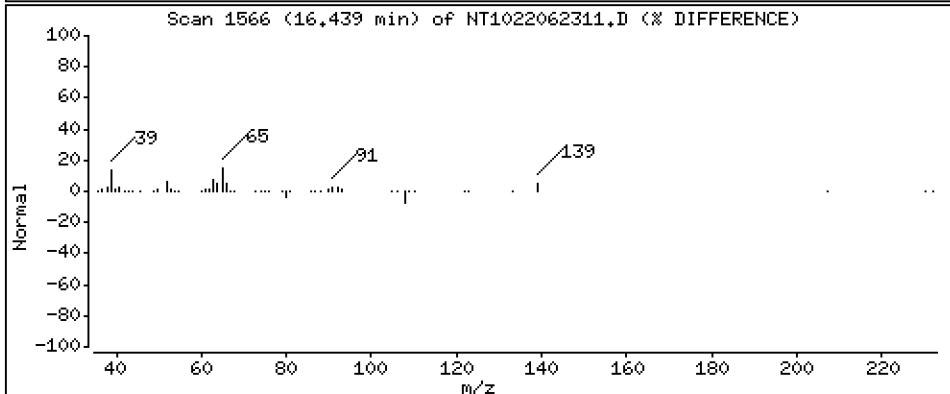
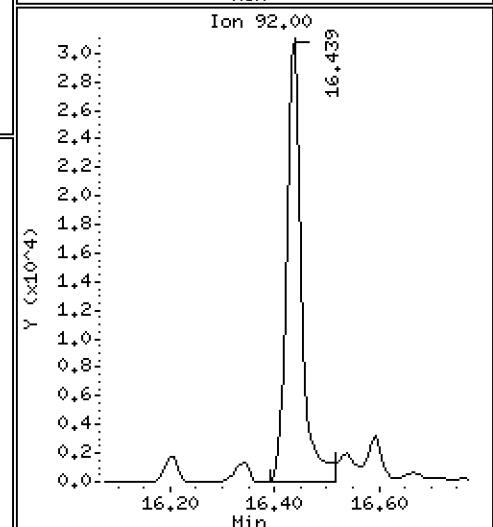
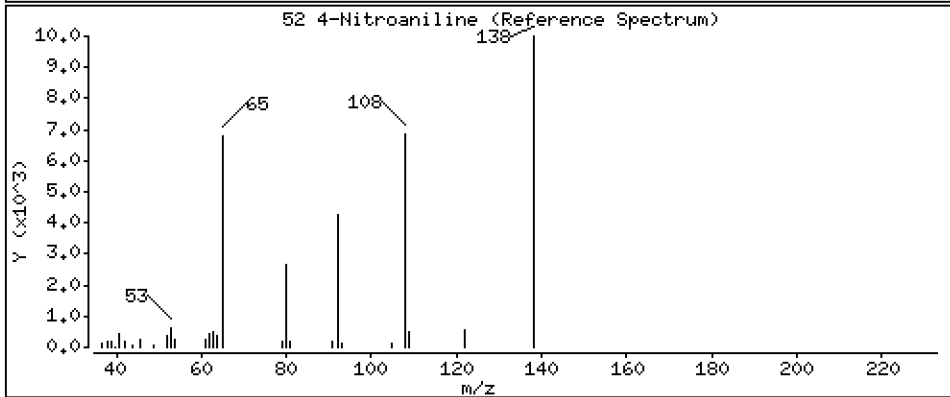
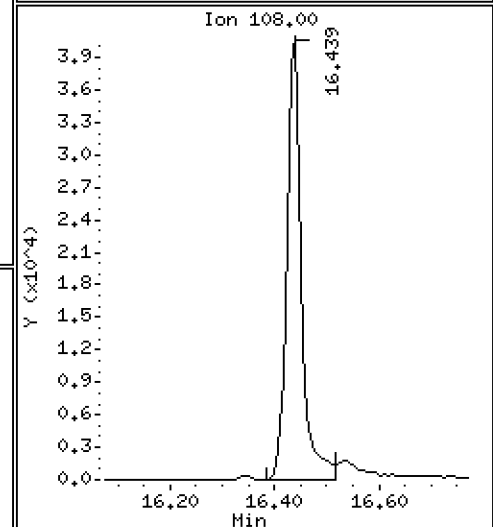
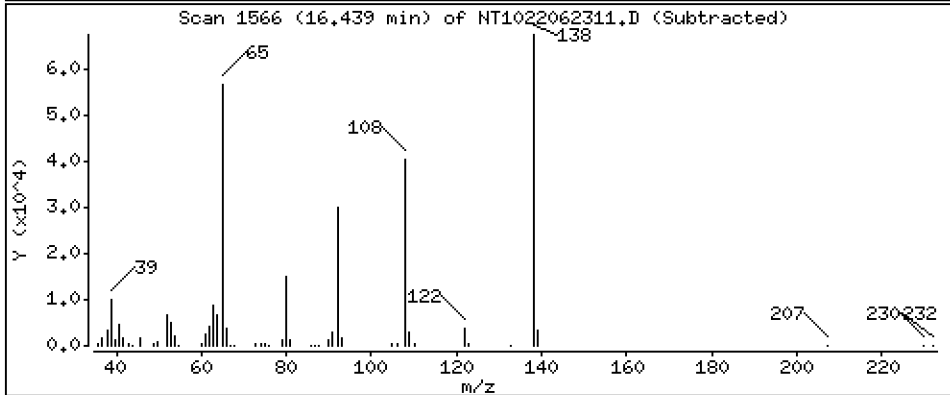
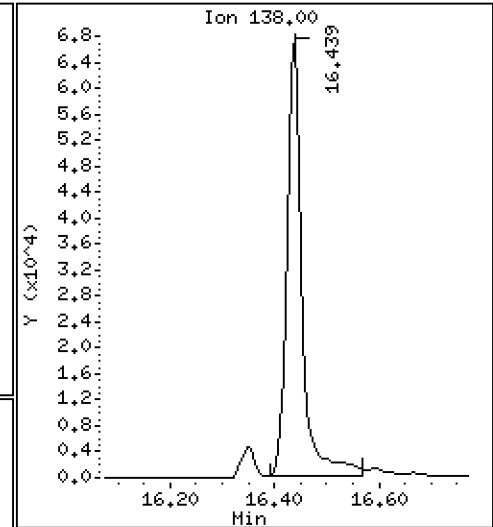
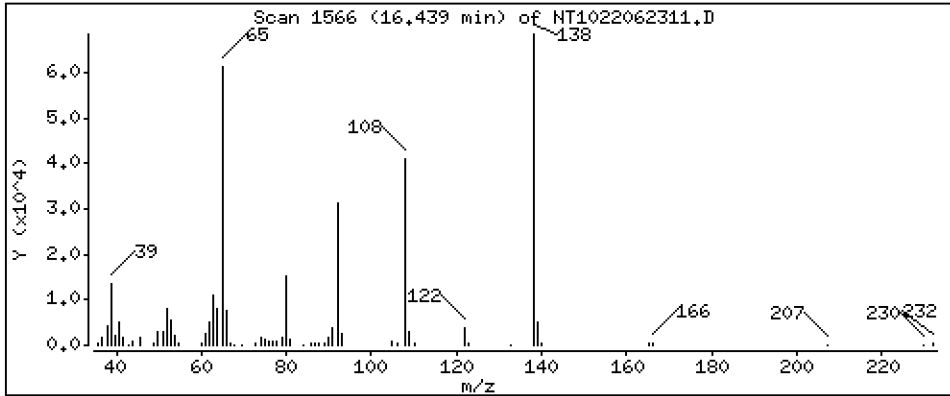
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 5,094 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

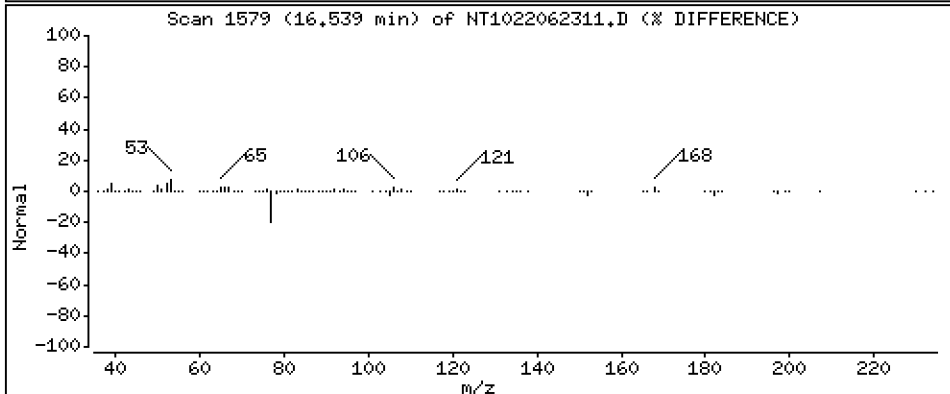
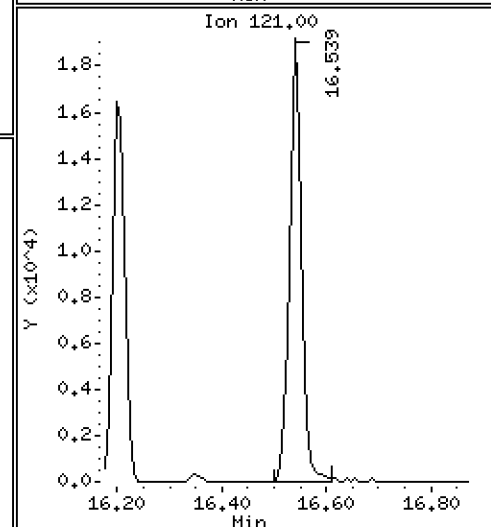
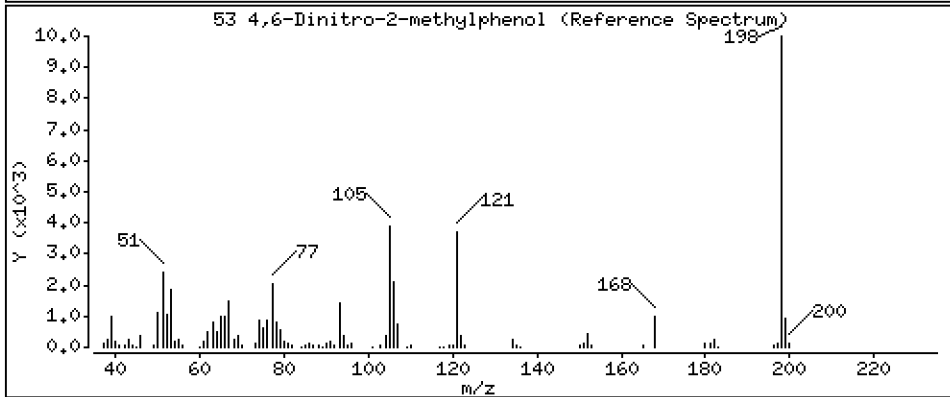
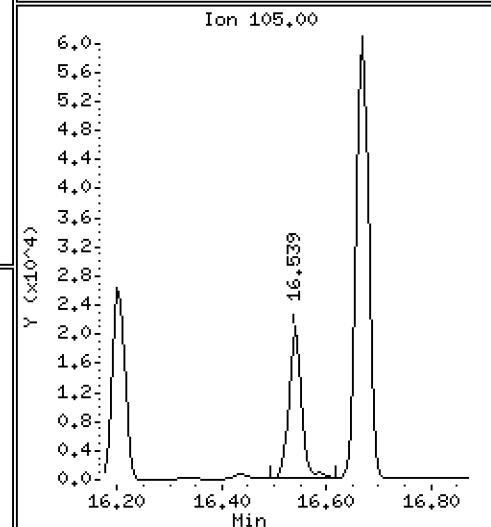
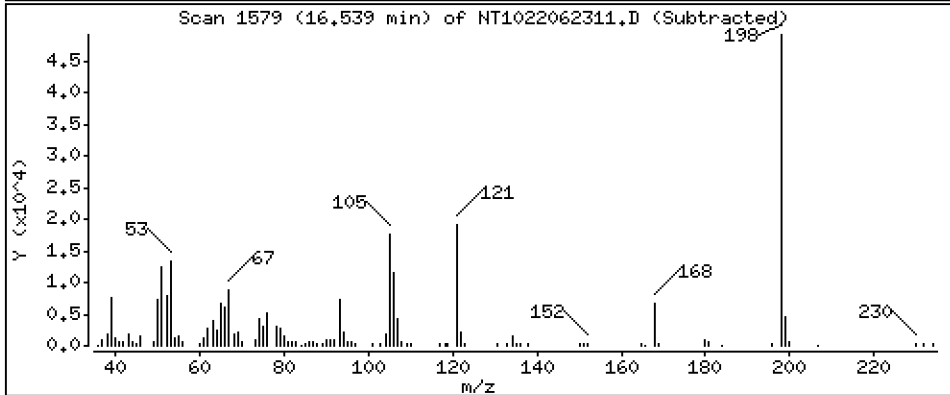
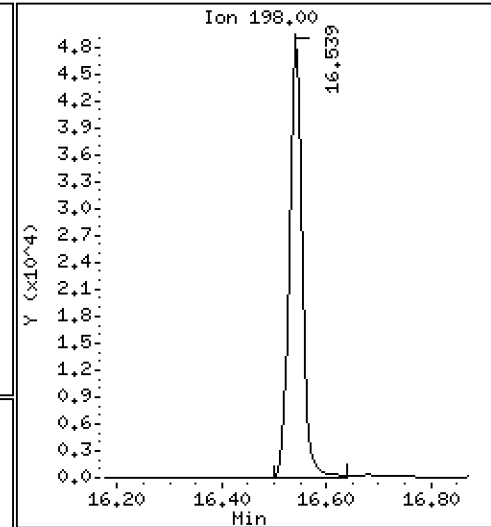
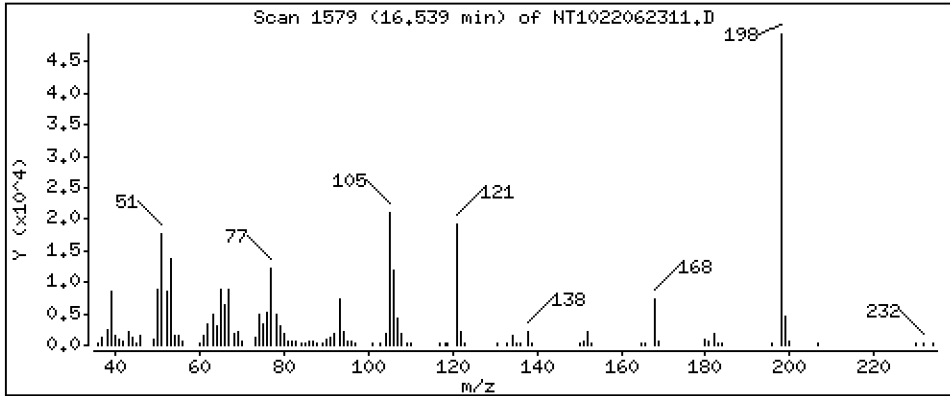
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 4,314 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

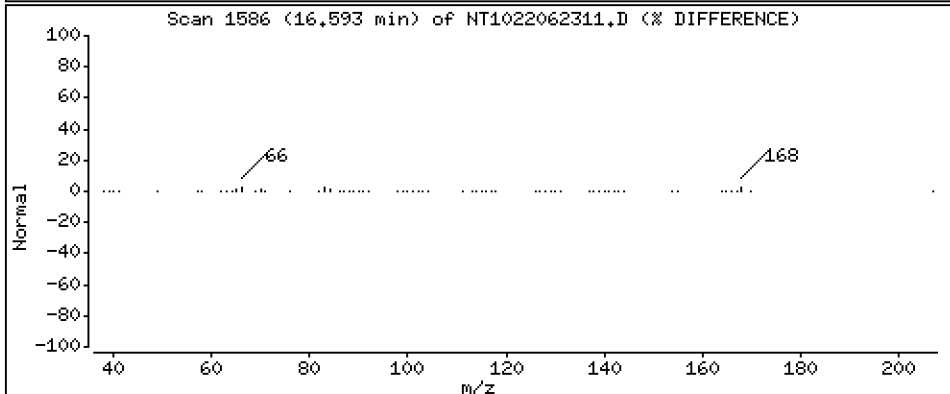
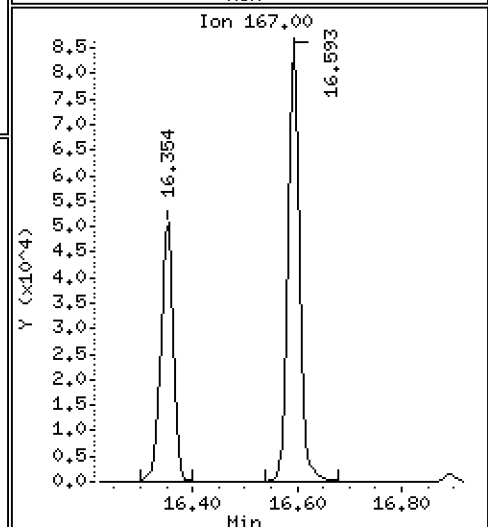
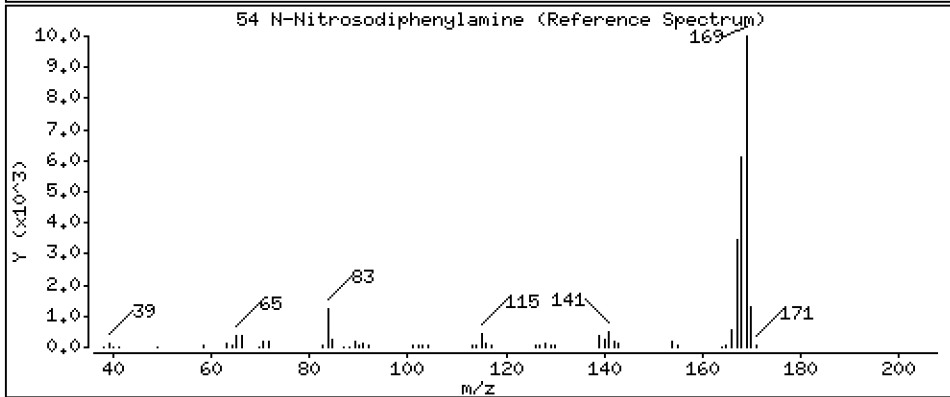
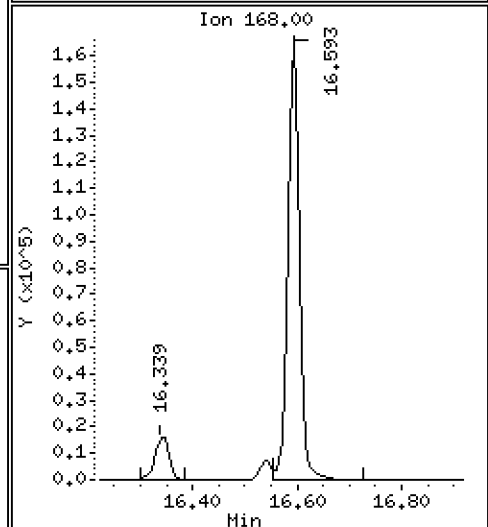
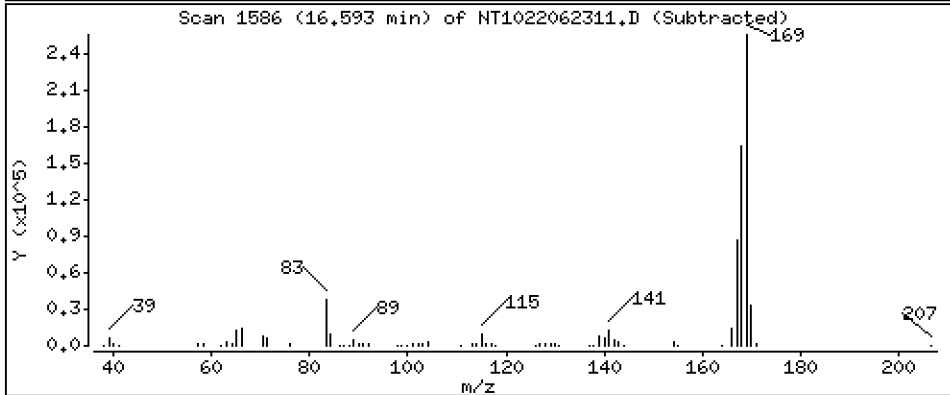
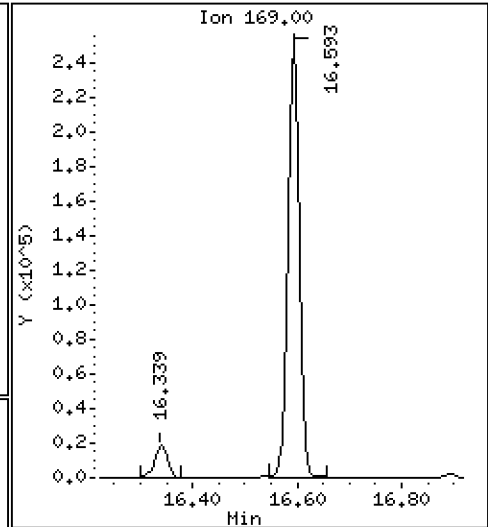
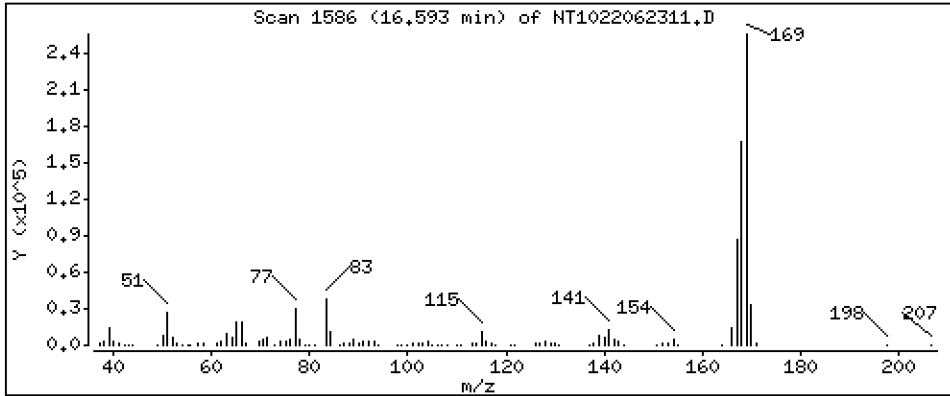
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,983 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

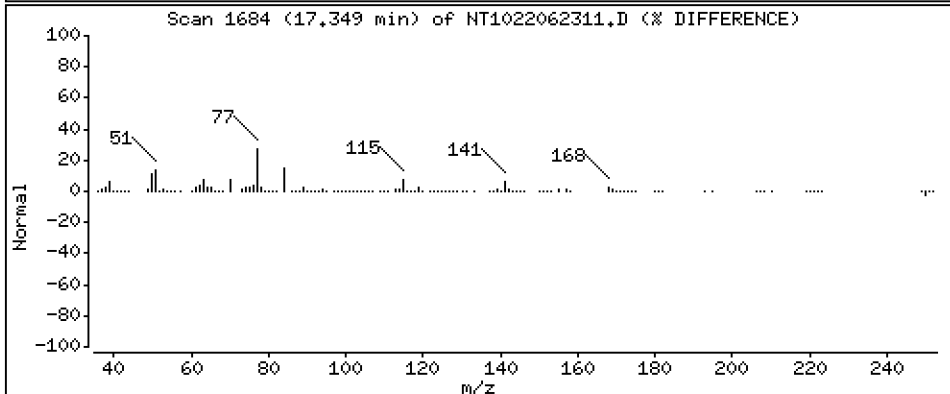
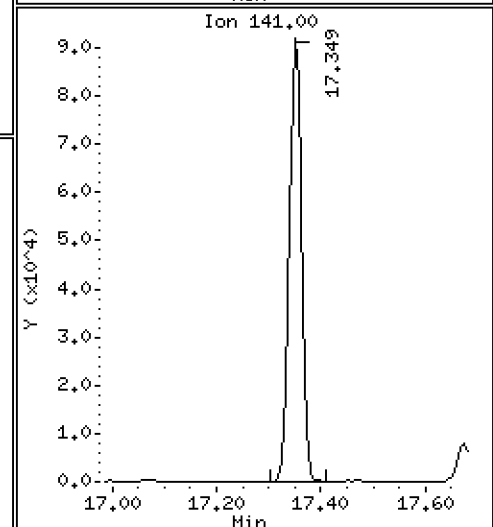
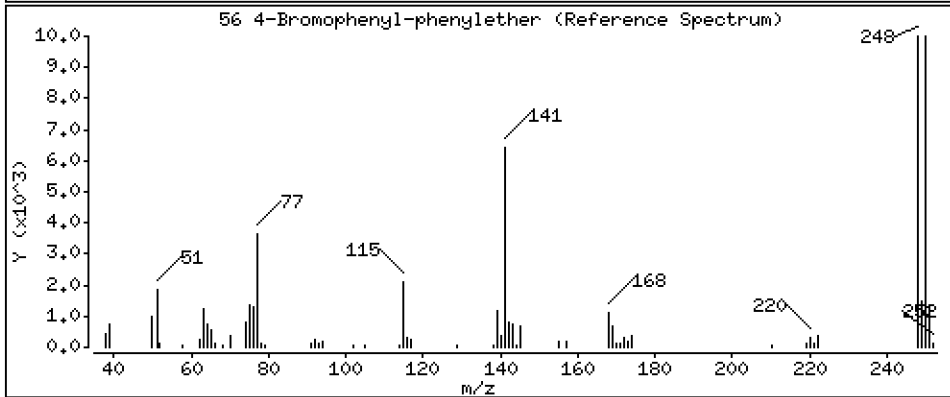
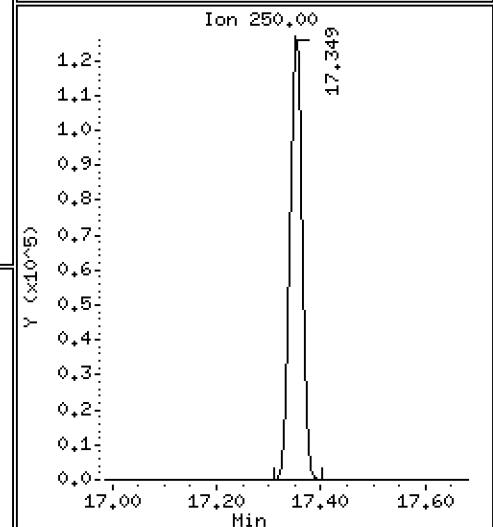
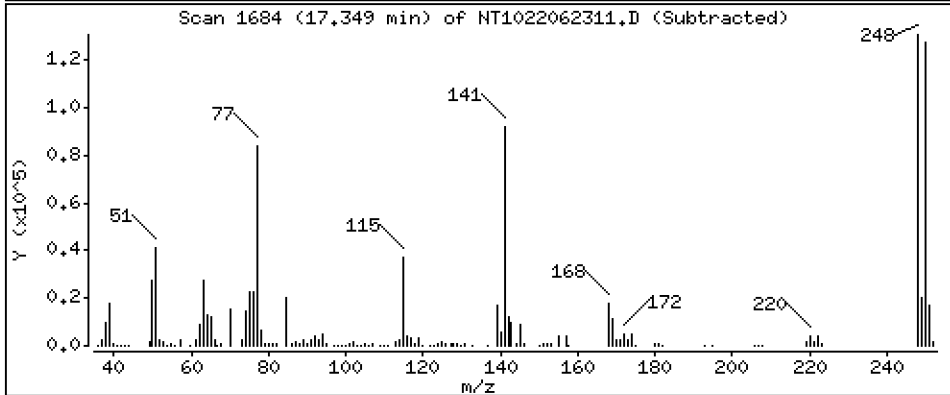
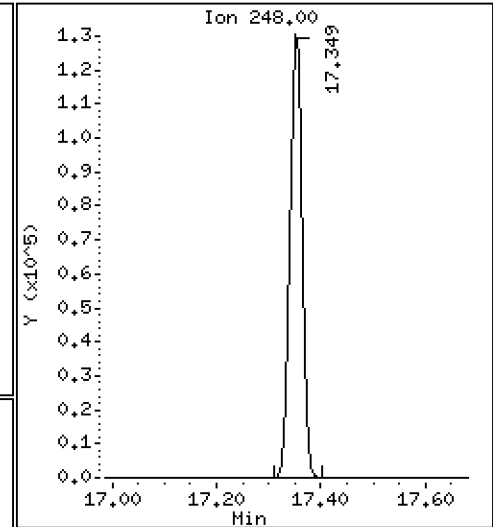
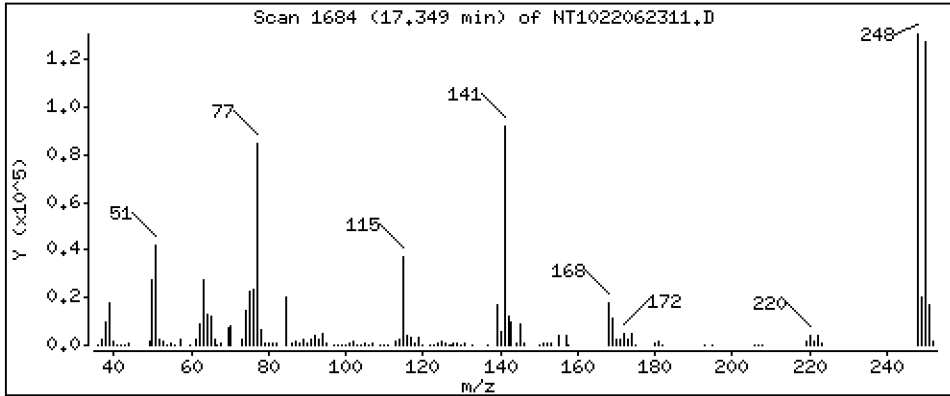
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,456 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

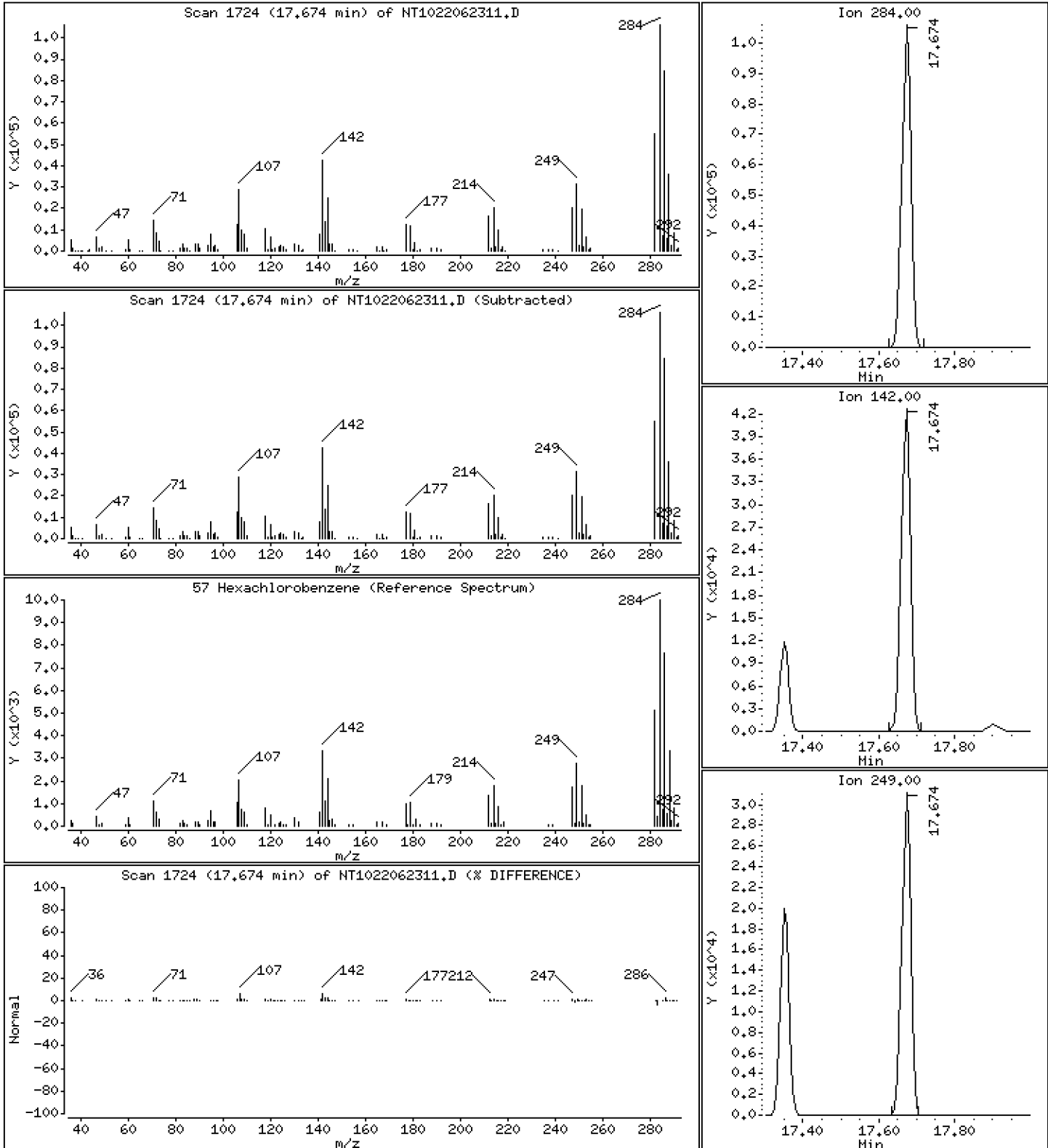
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 5,114 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

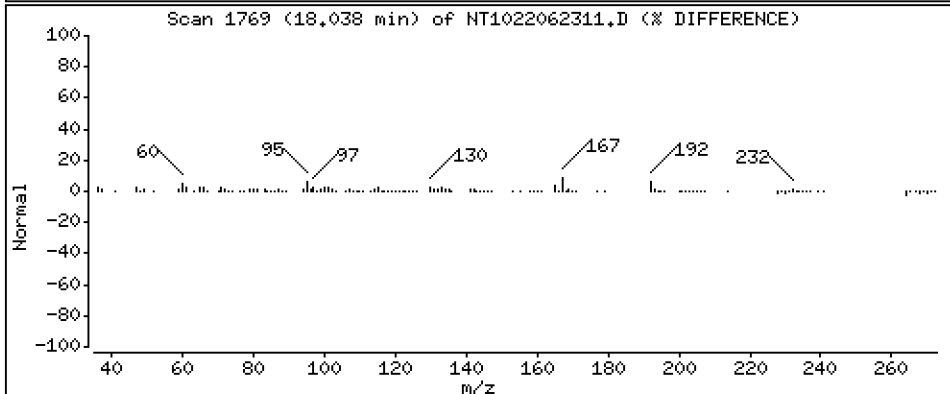
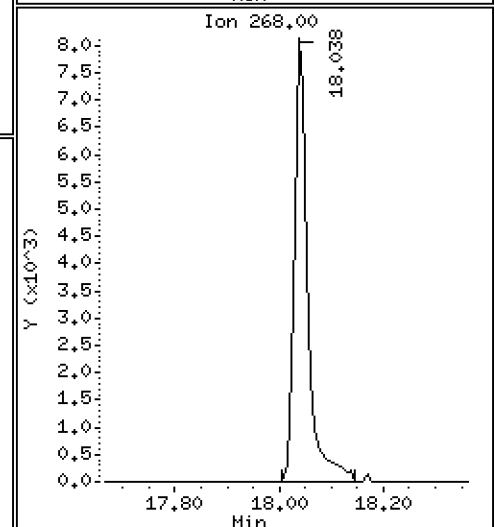
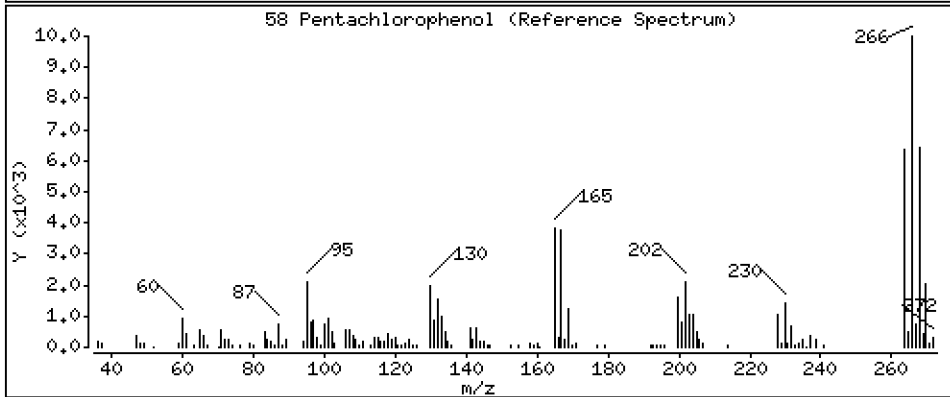
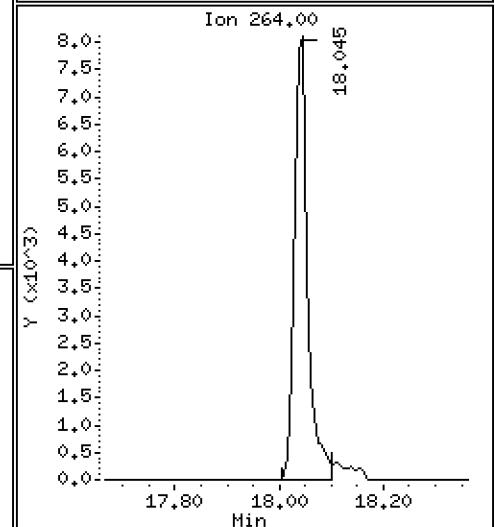
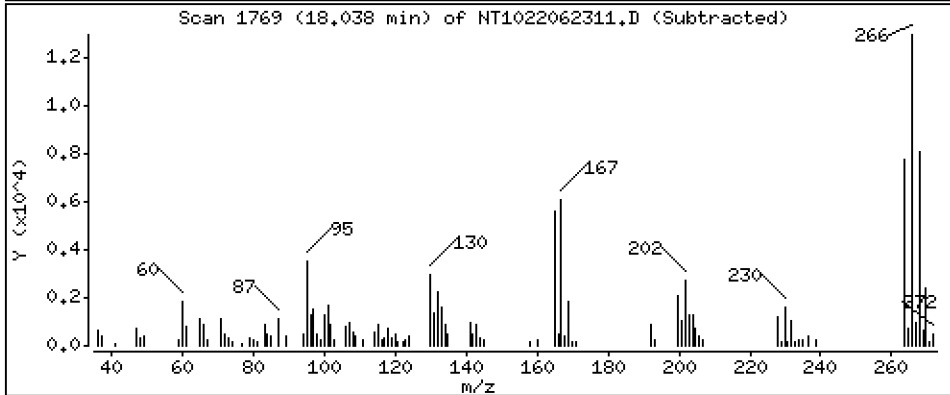
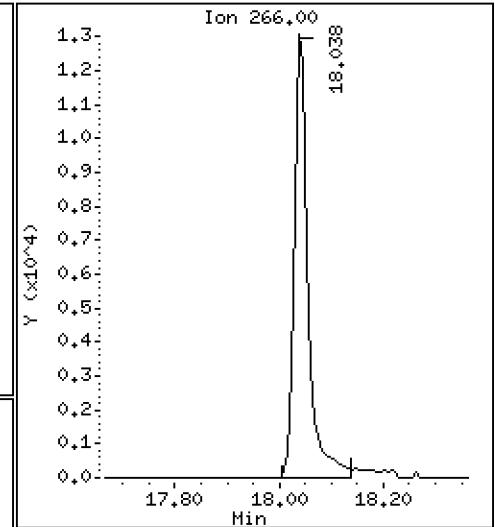
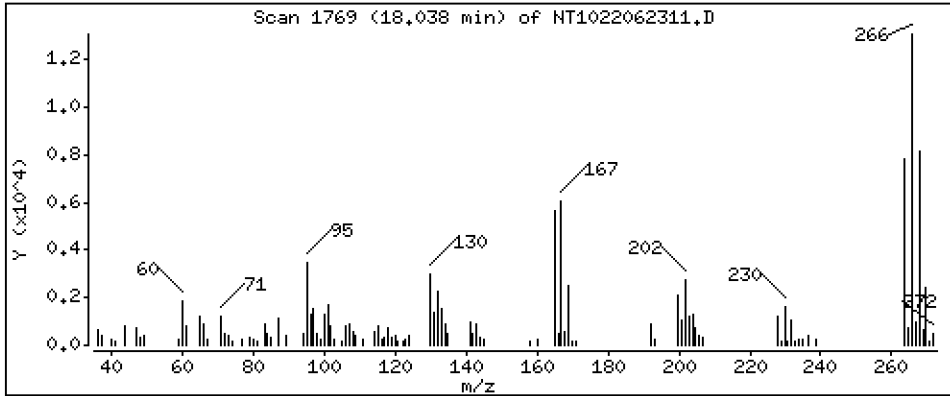
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,238 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

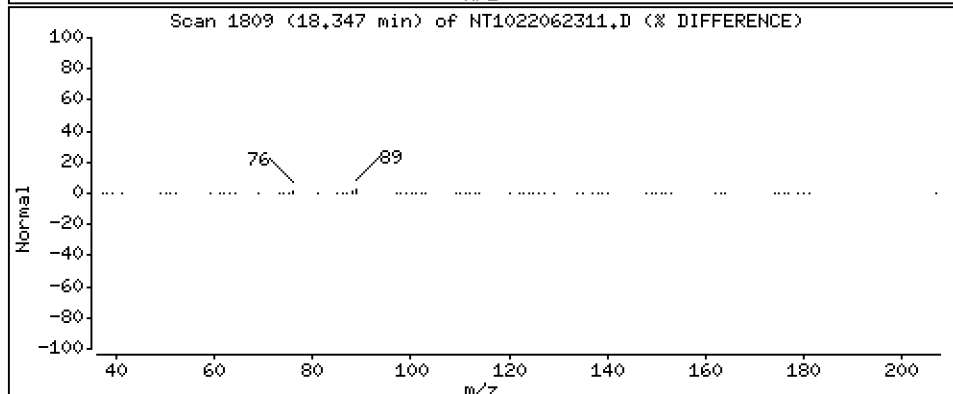
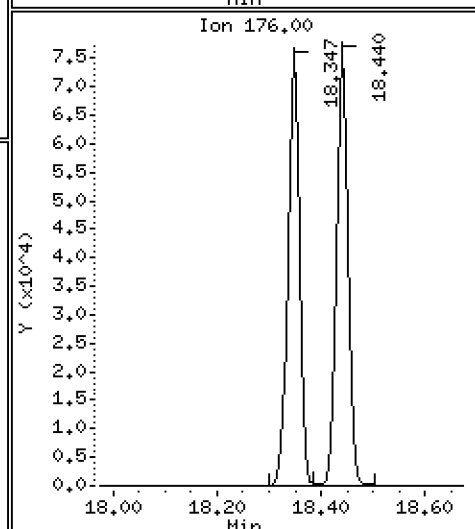
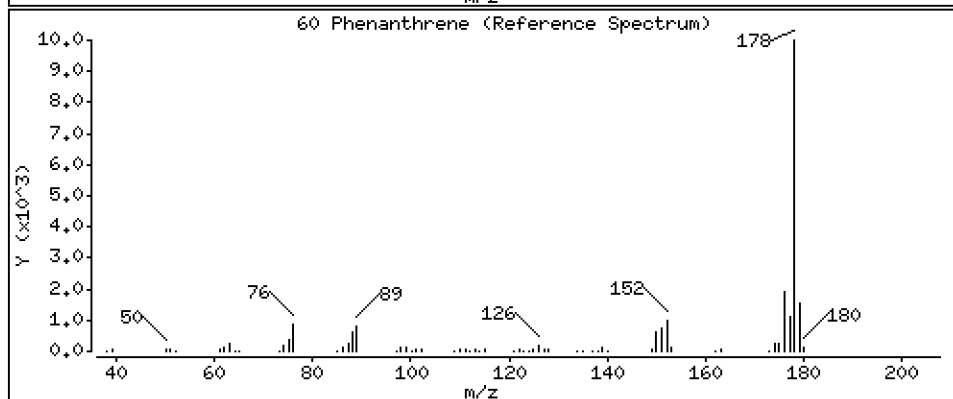
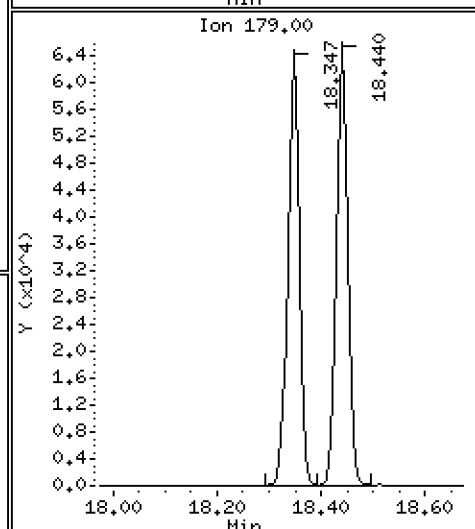
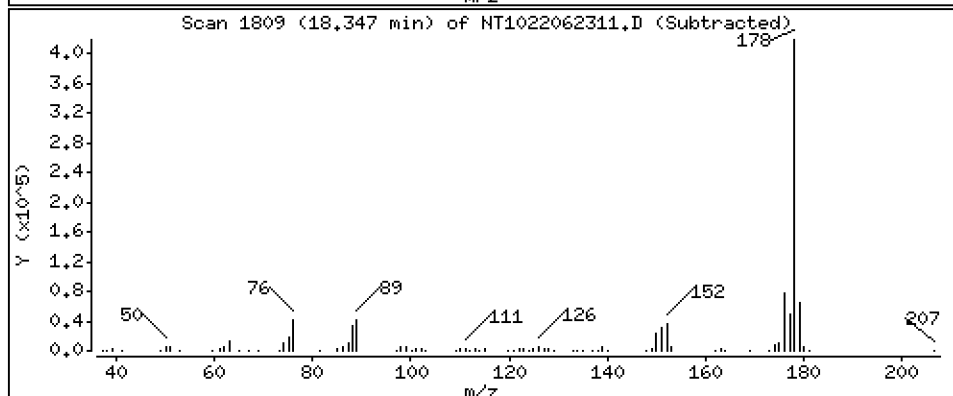
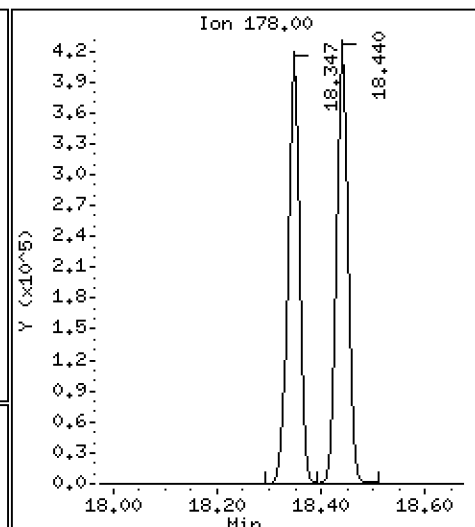
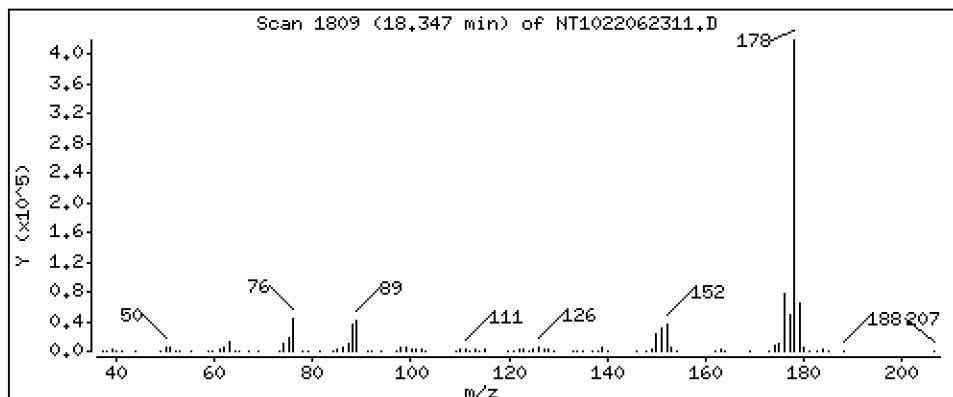
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,893 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

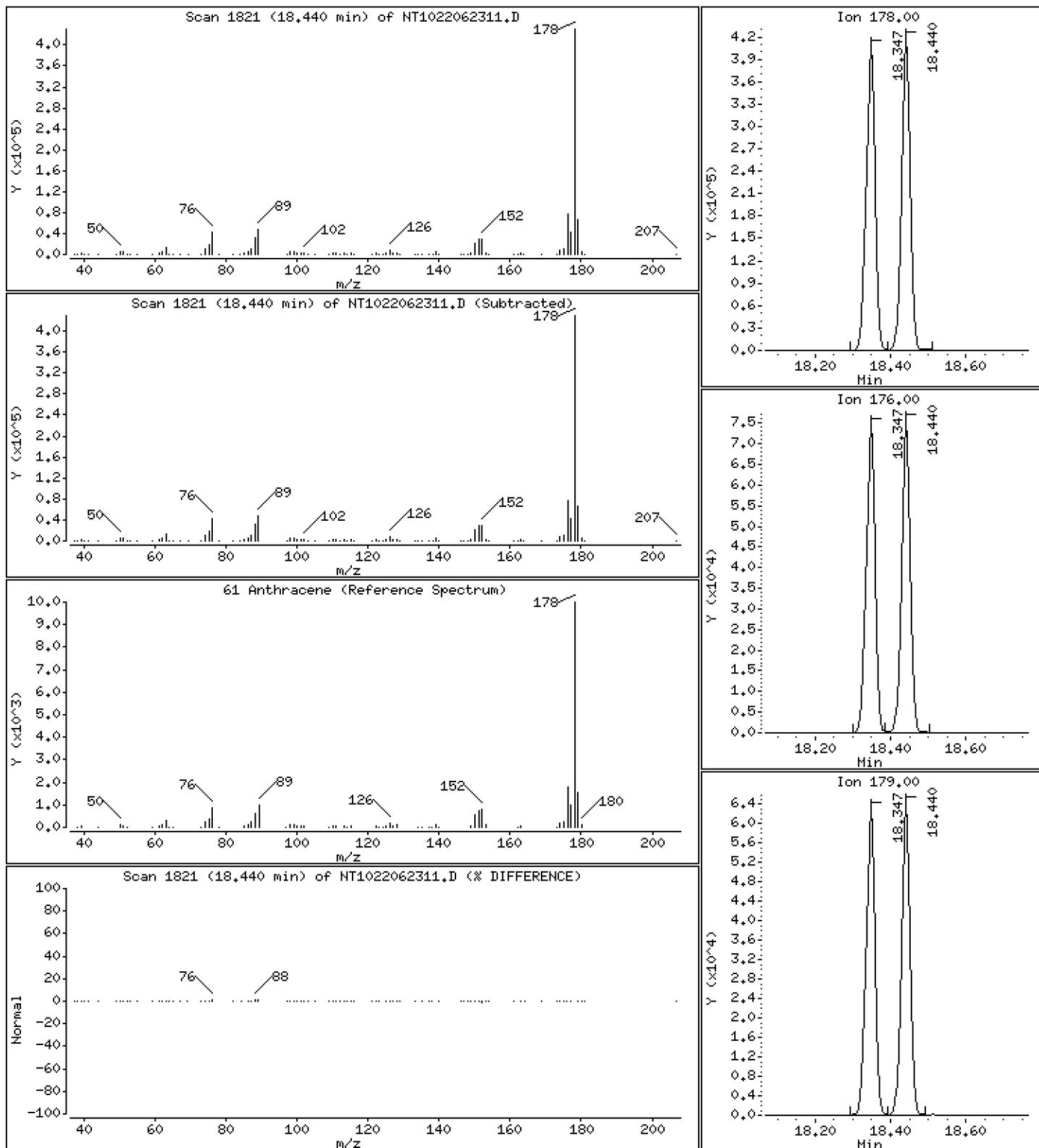
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,828 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

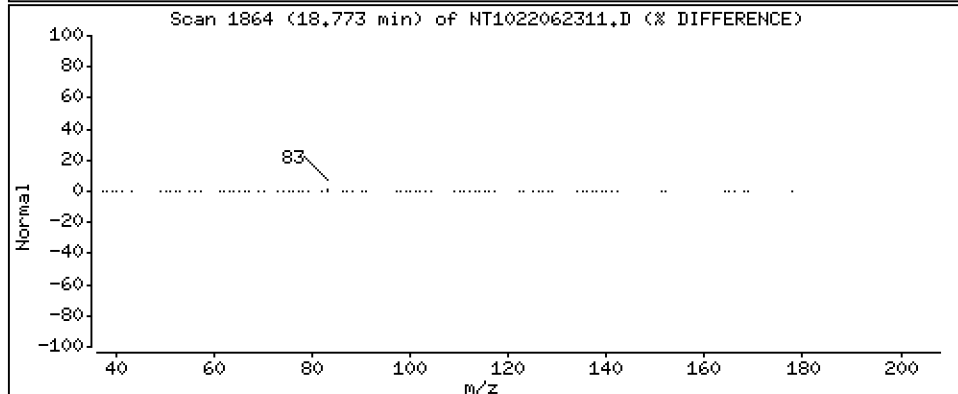
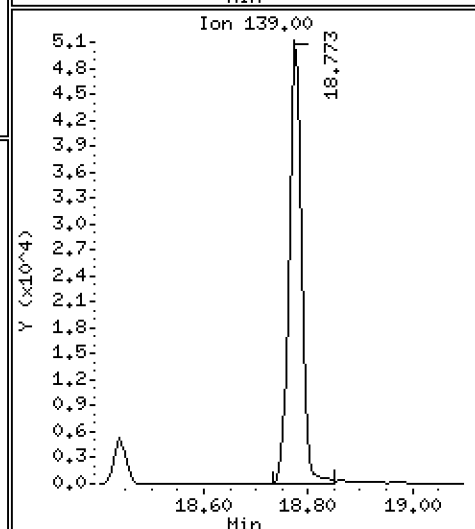
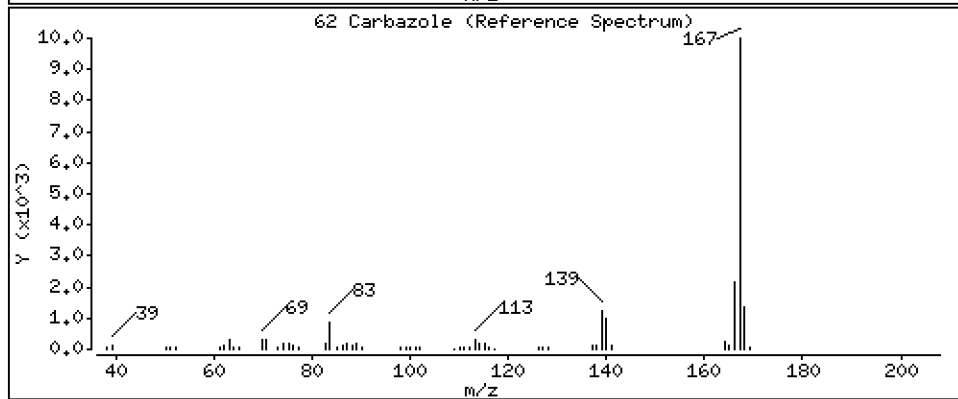
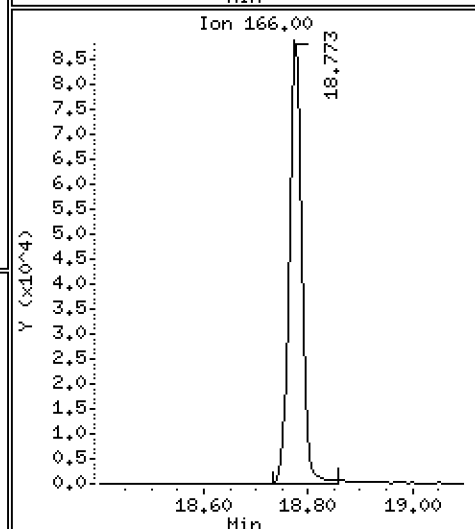
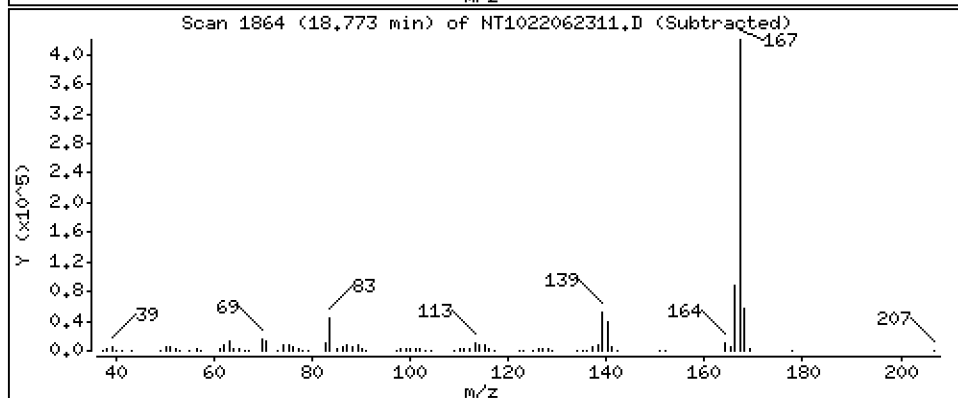
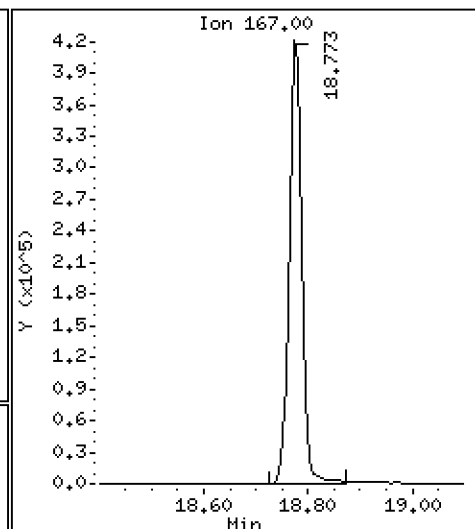
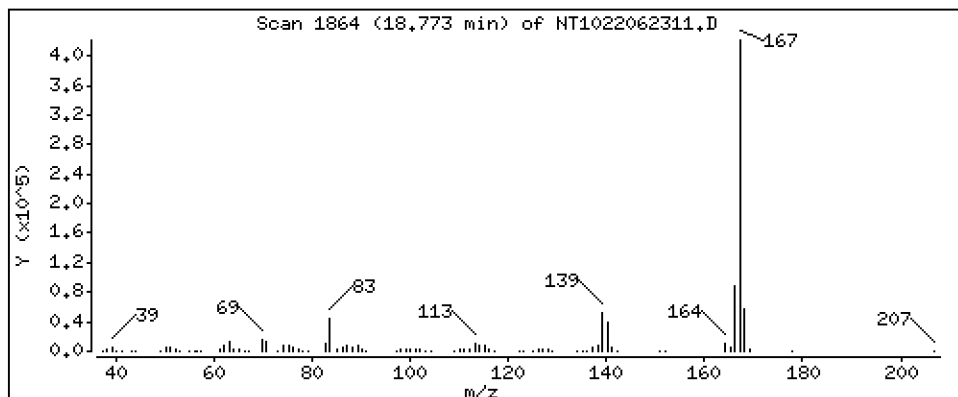
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,567 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

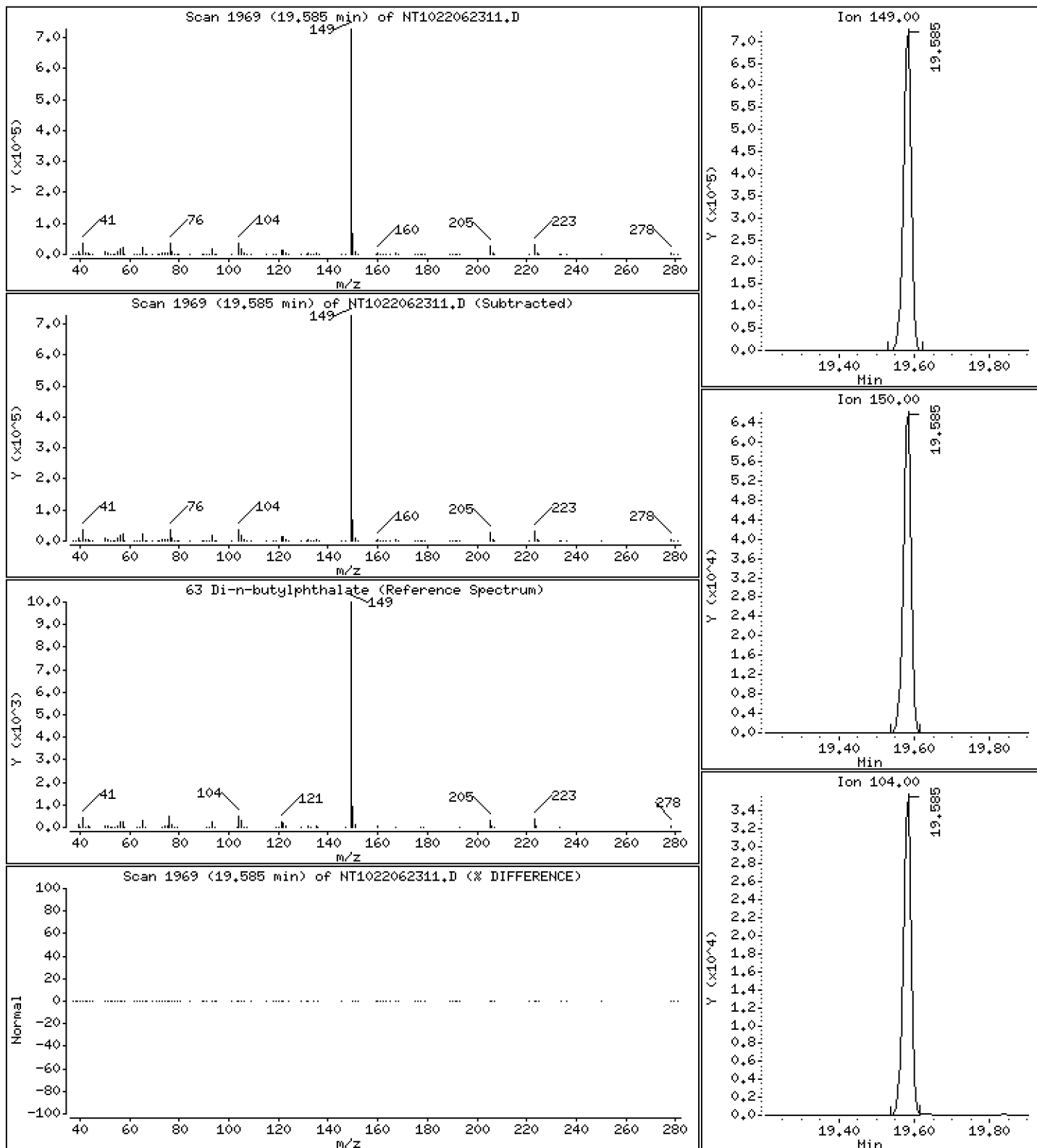
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,328 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

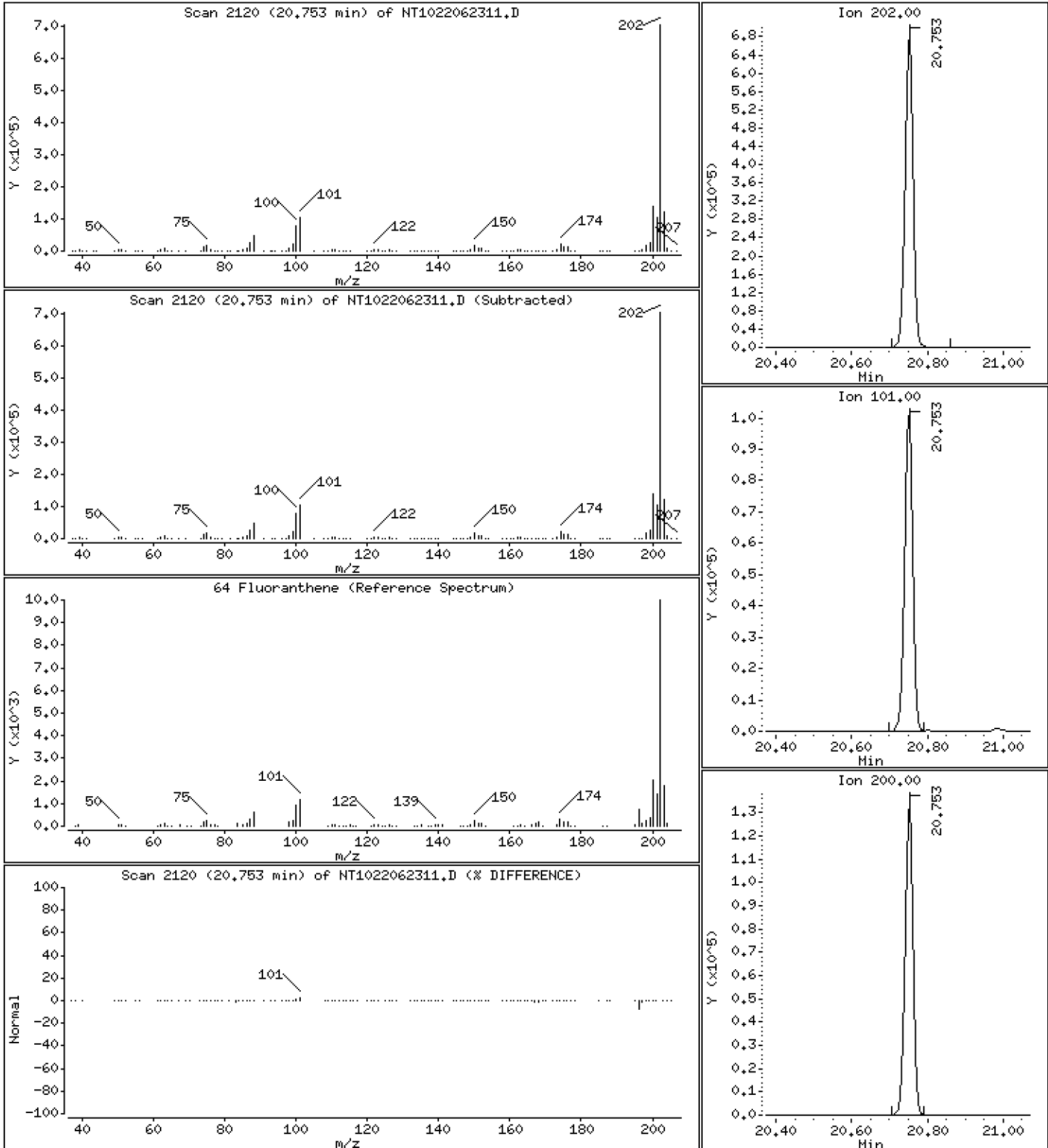
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,192 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

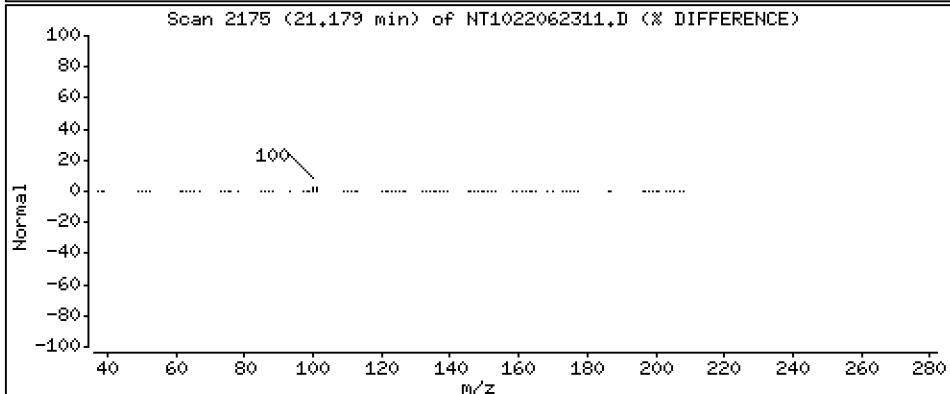
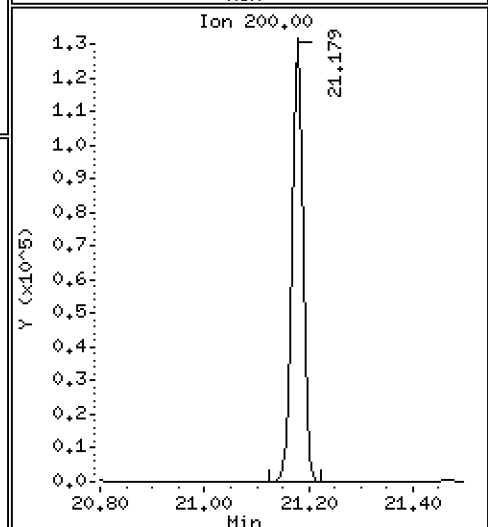
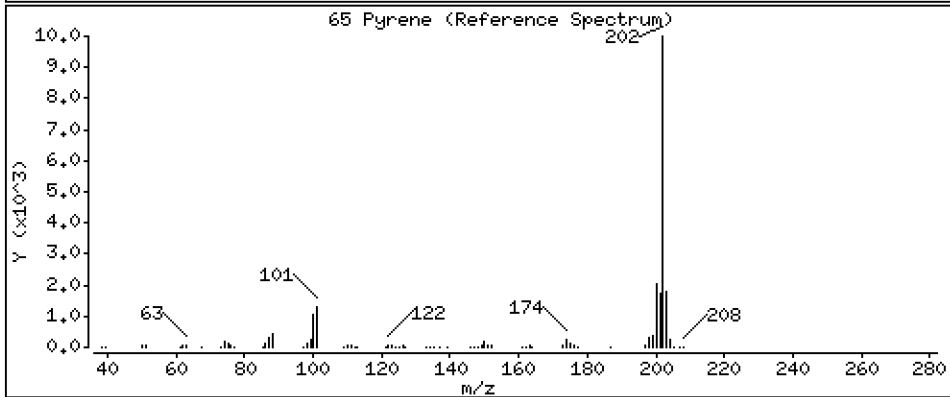
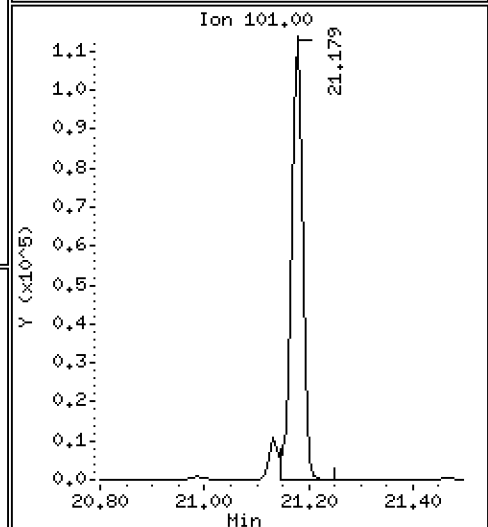
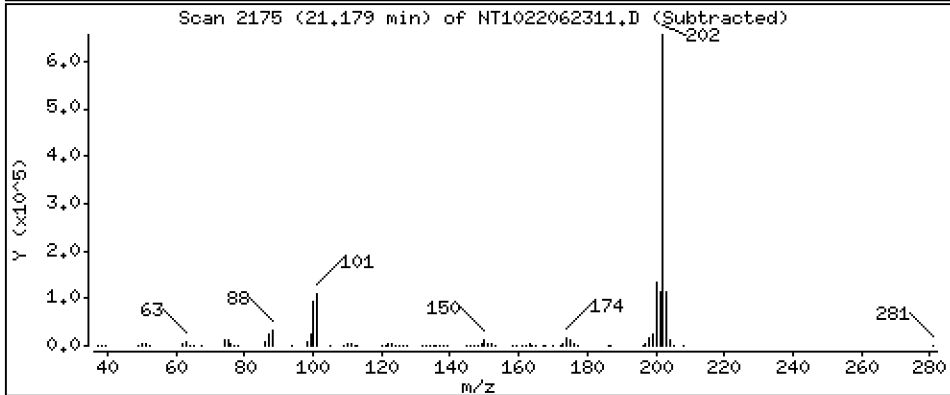
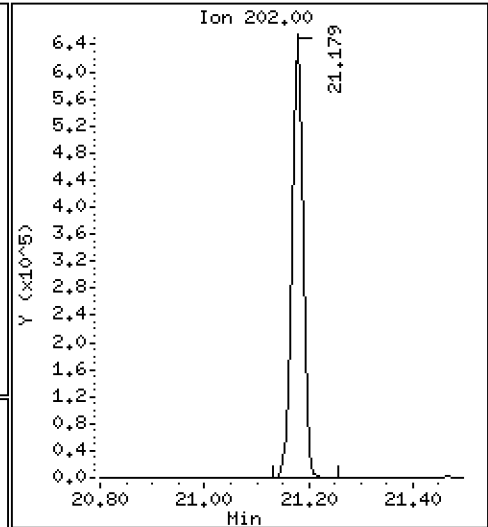
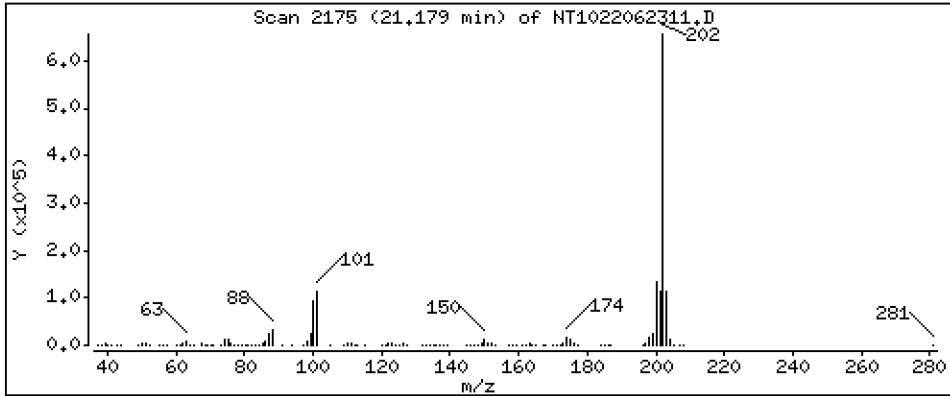
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,572 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

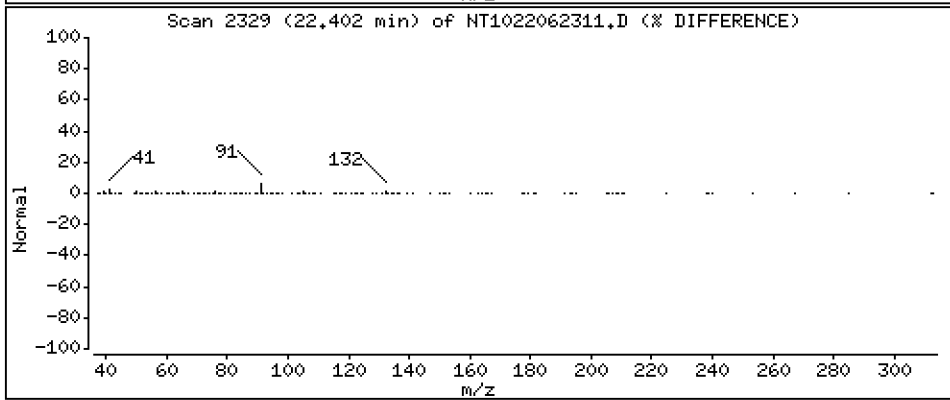
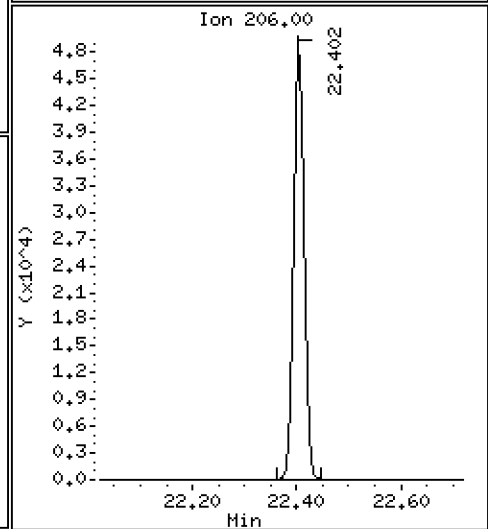
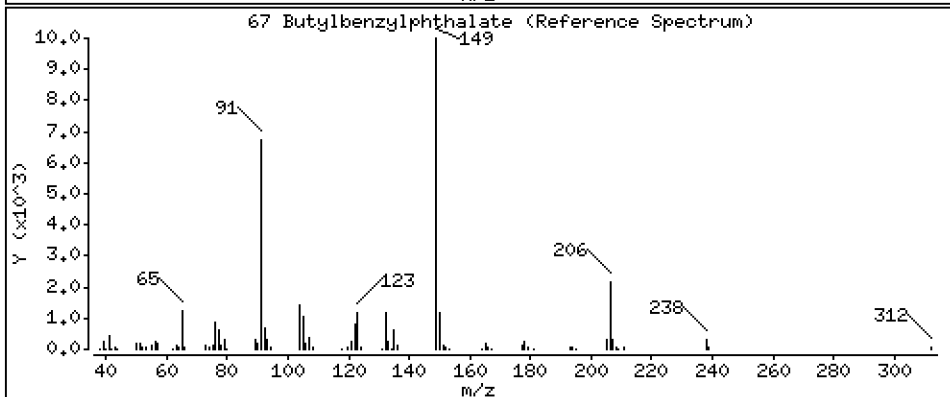
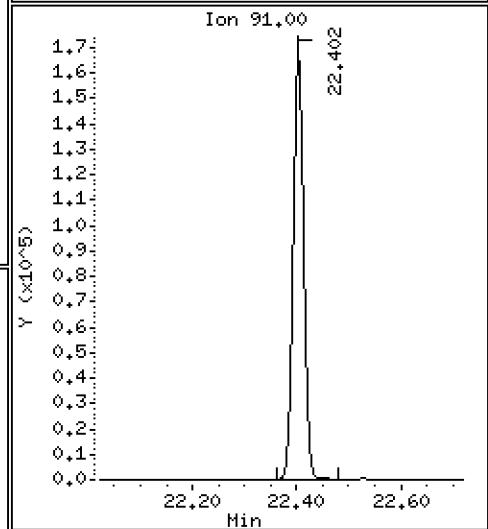
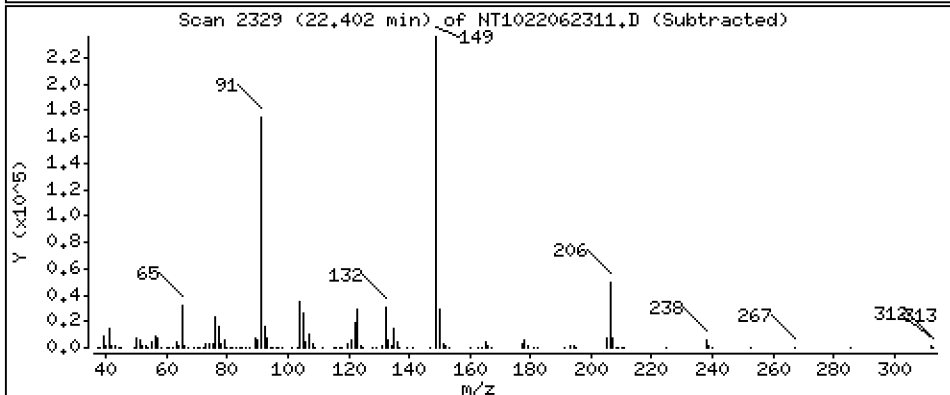
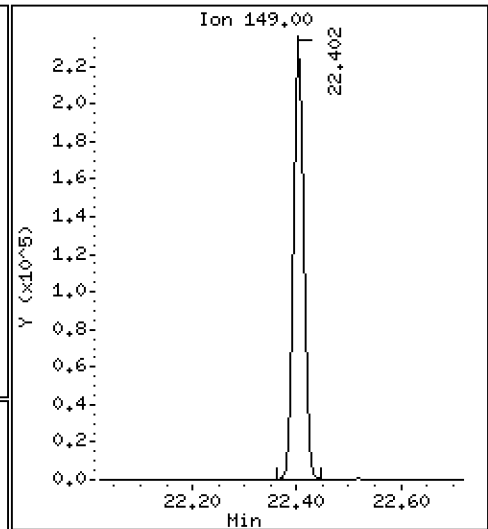
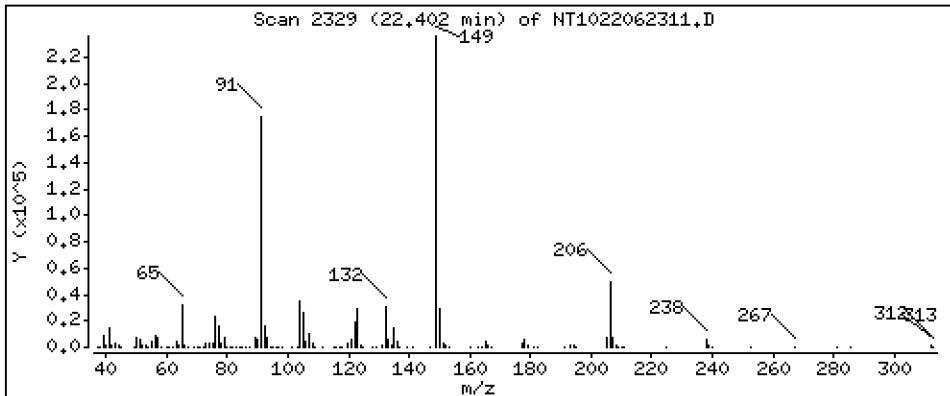
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,860 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

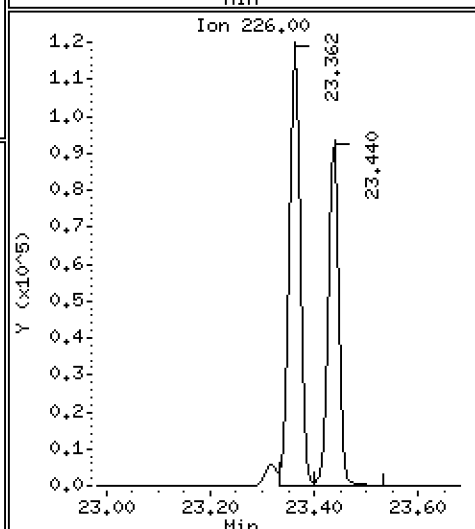
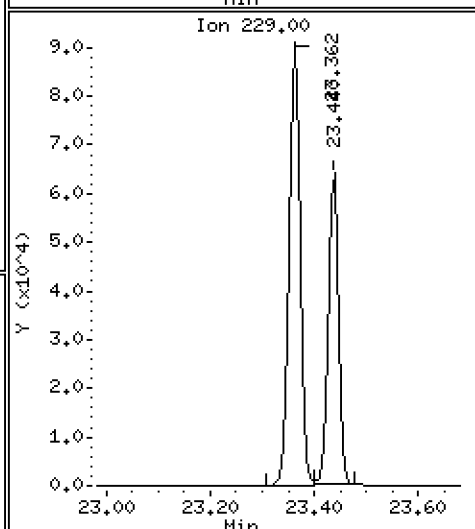
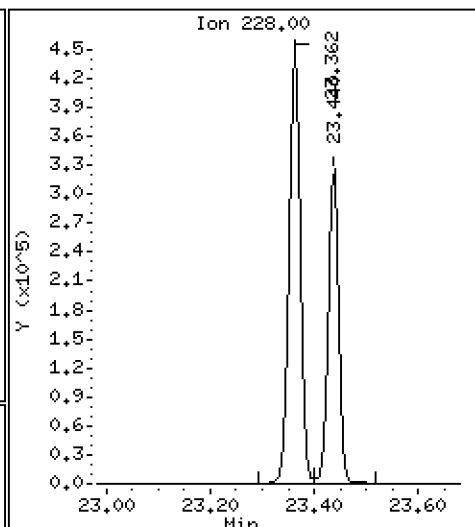
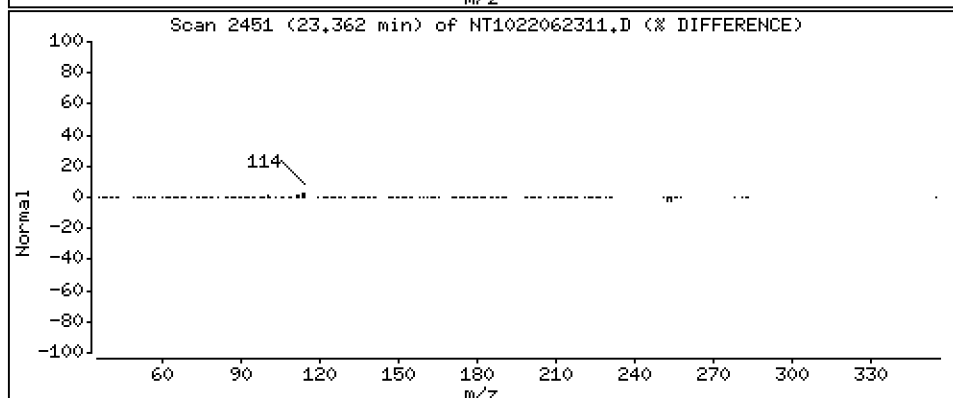
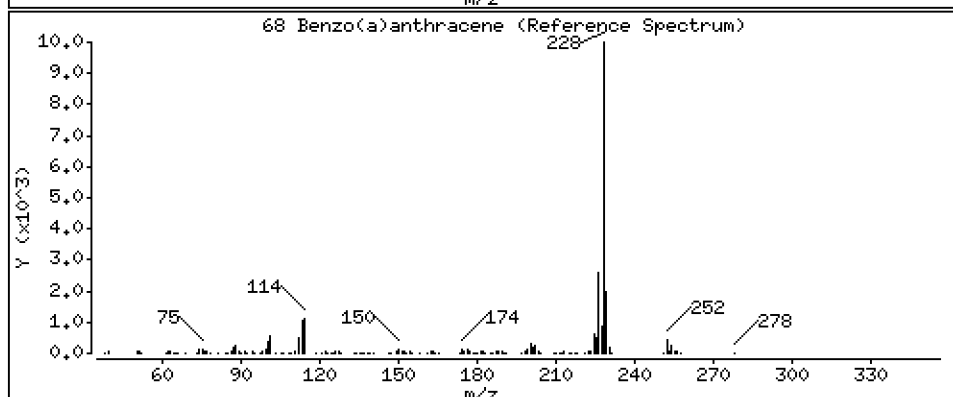
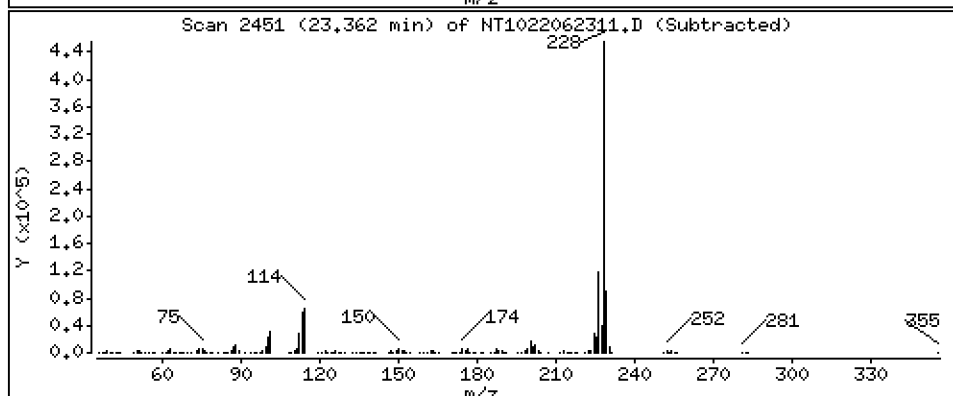
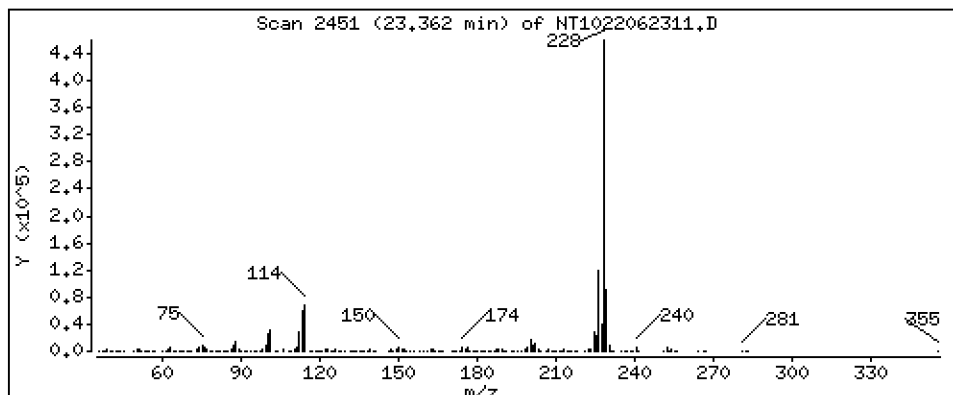
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,852 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

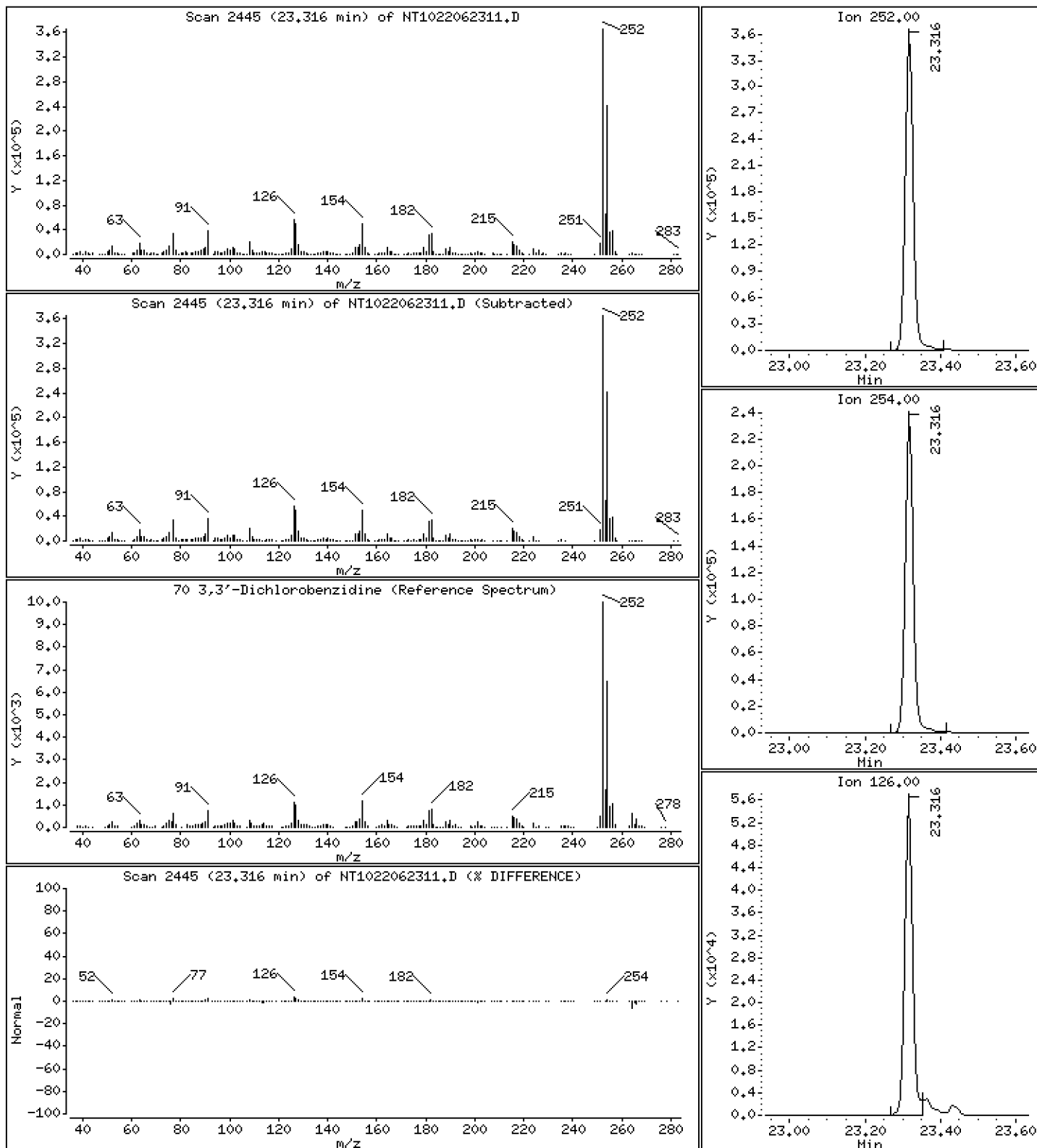
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 11,77 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

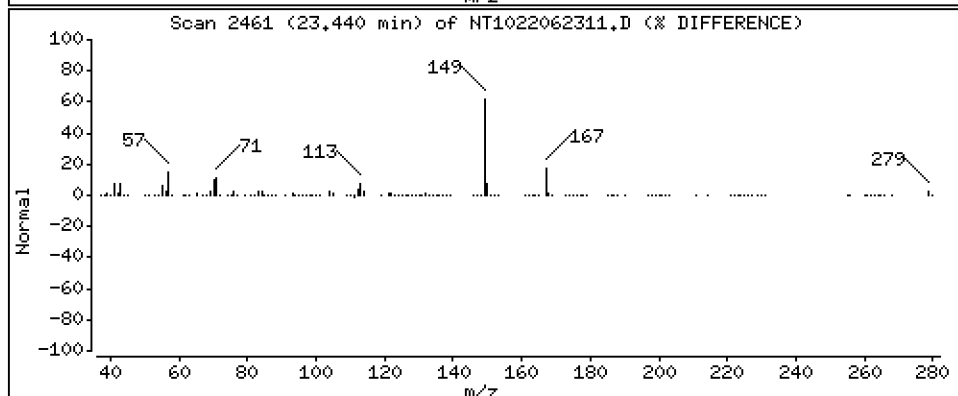
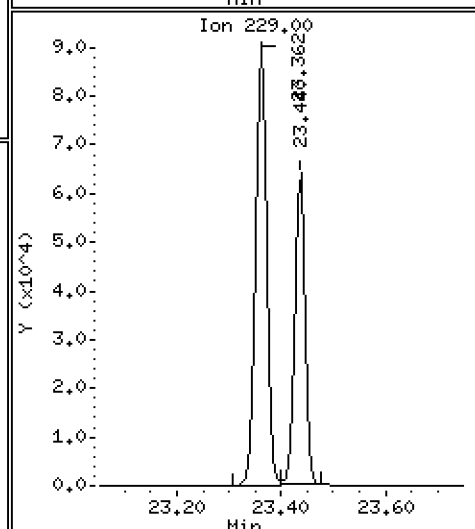
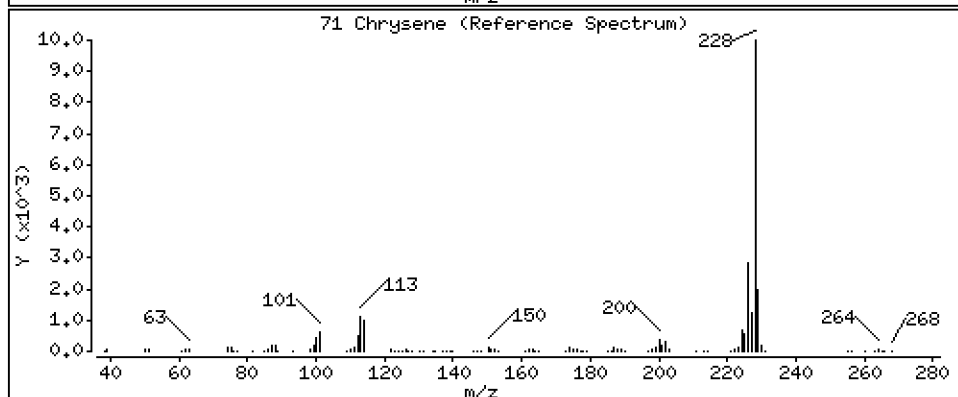
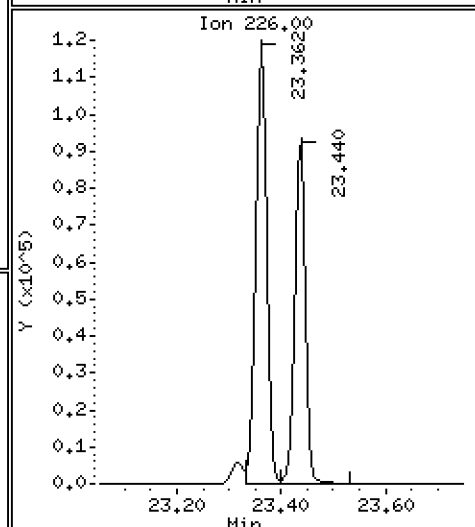
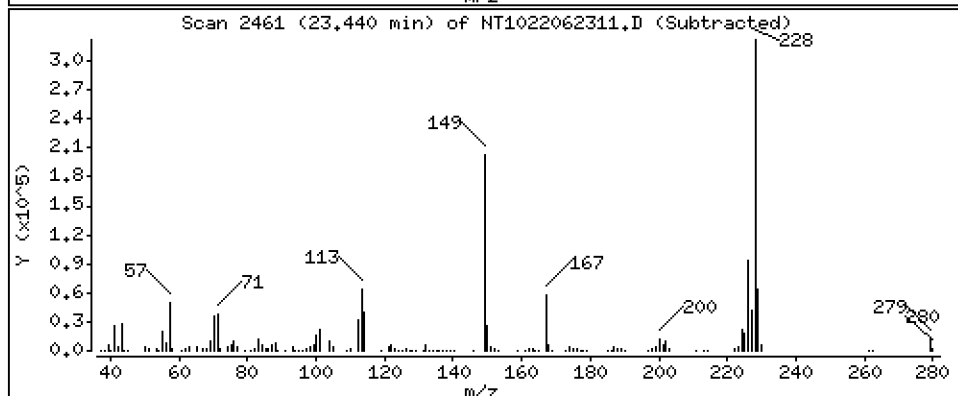
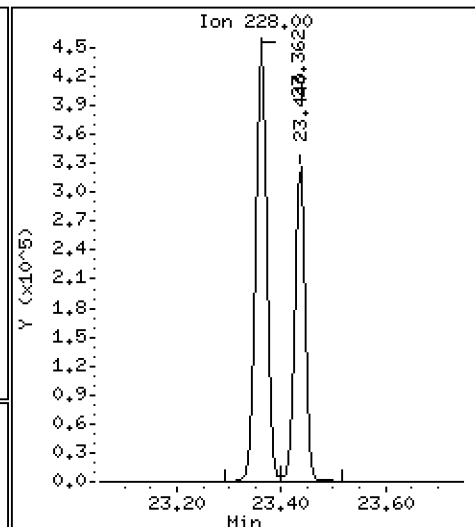
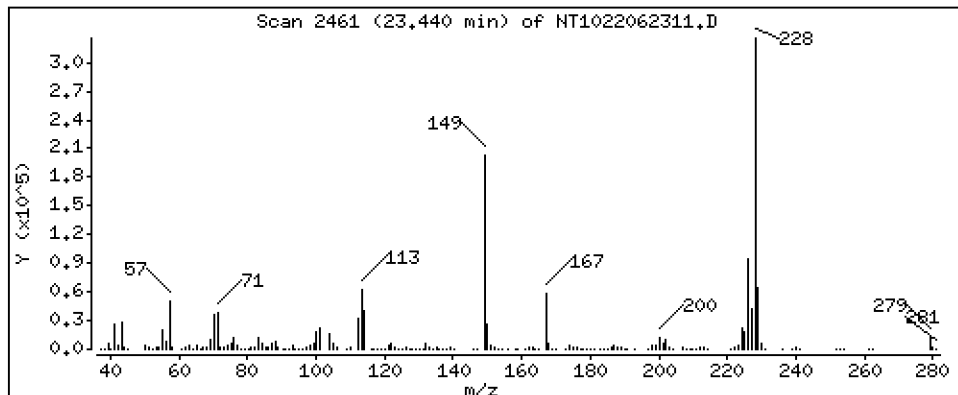
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,725 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

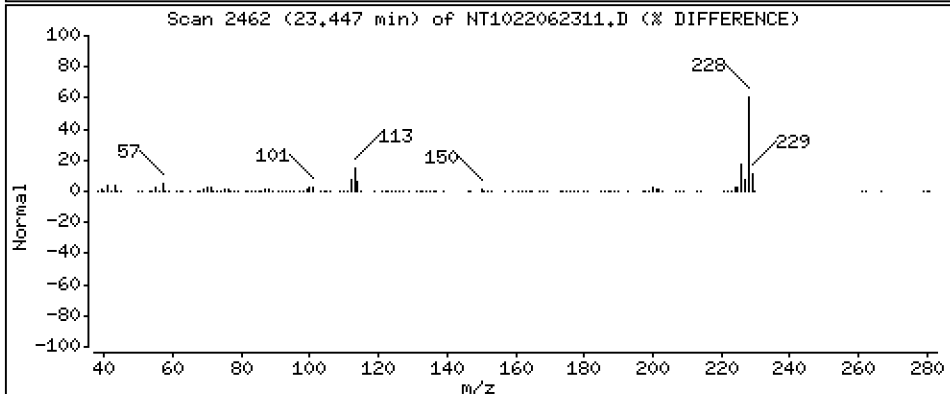
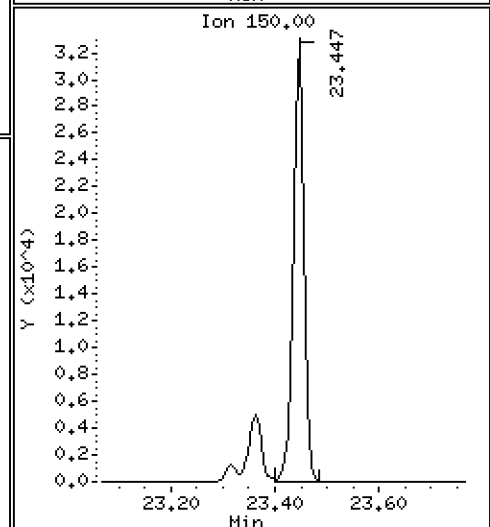
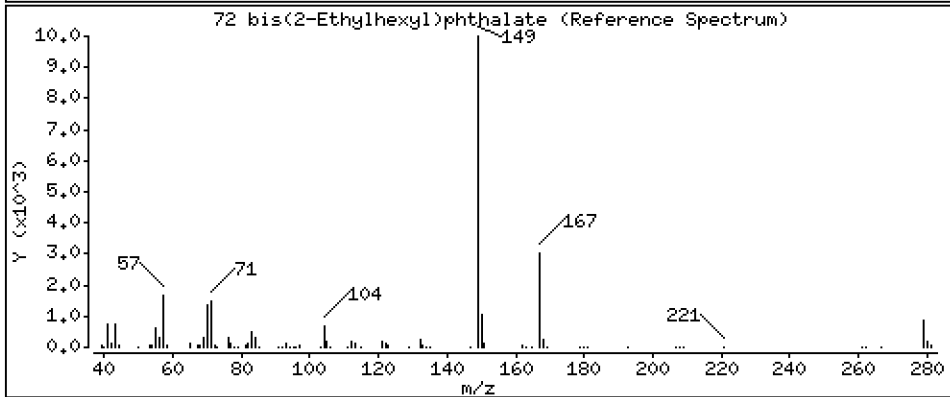
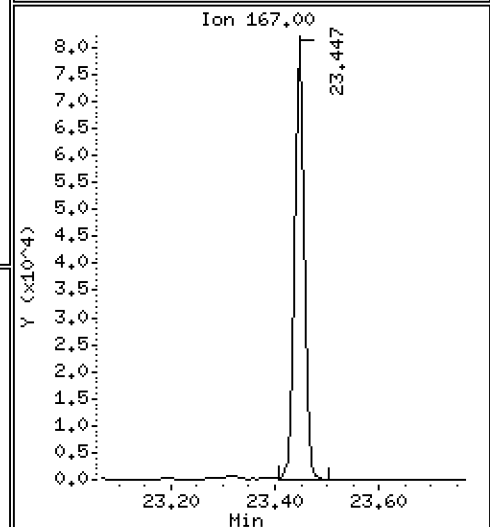
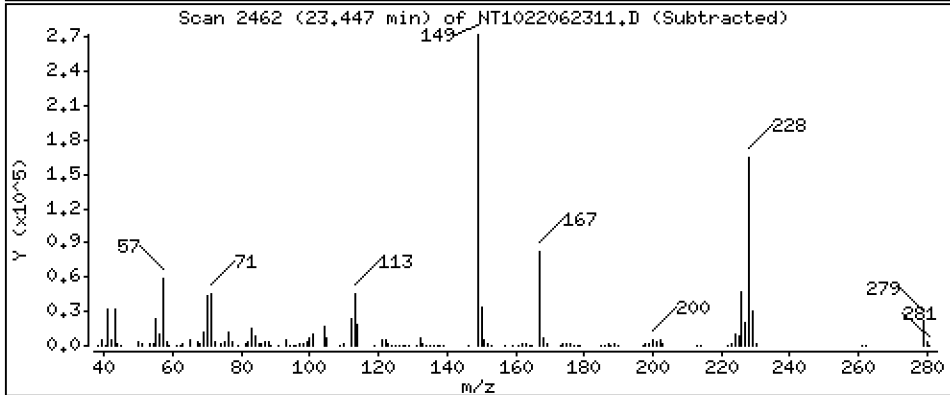
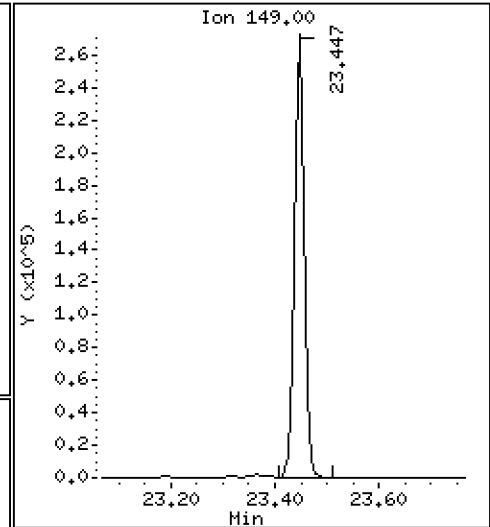
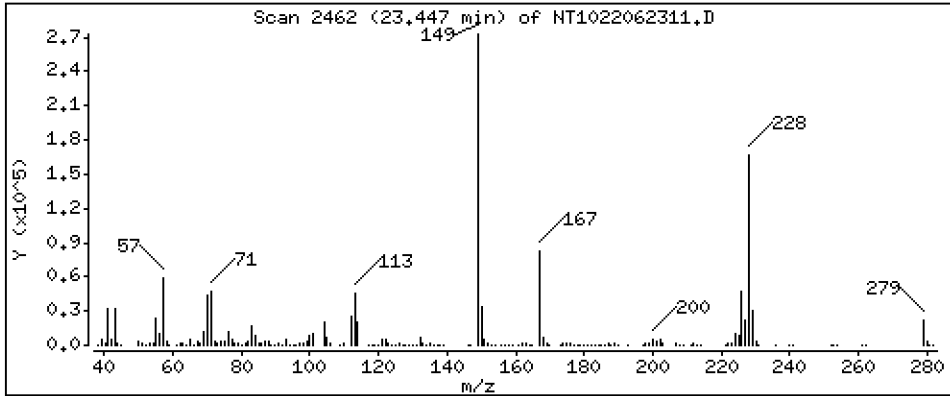
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,061 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

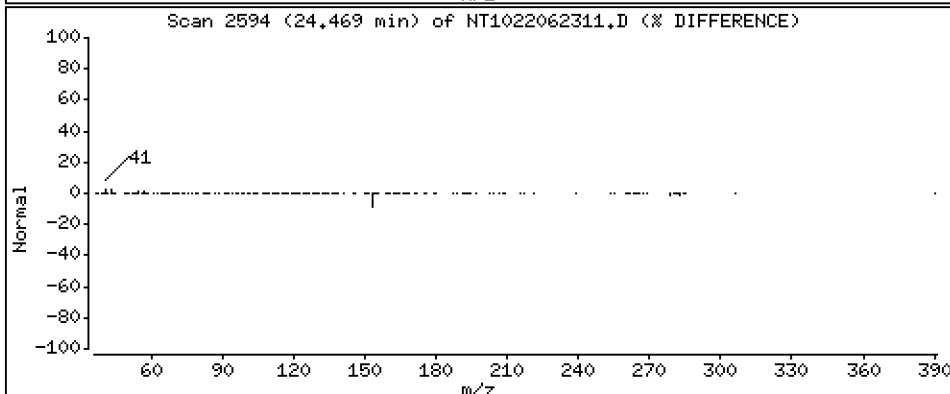
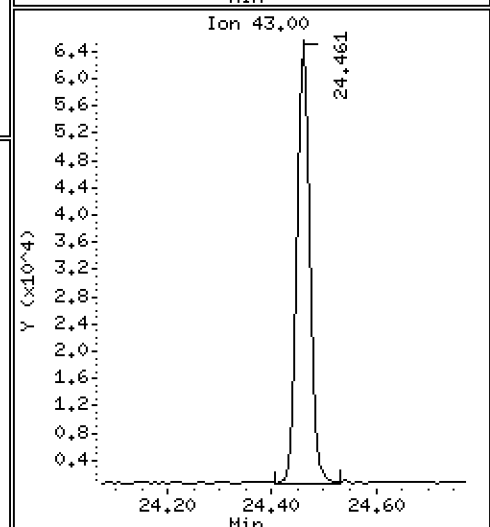
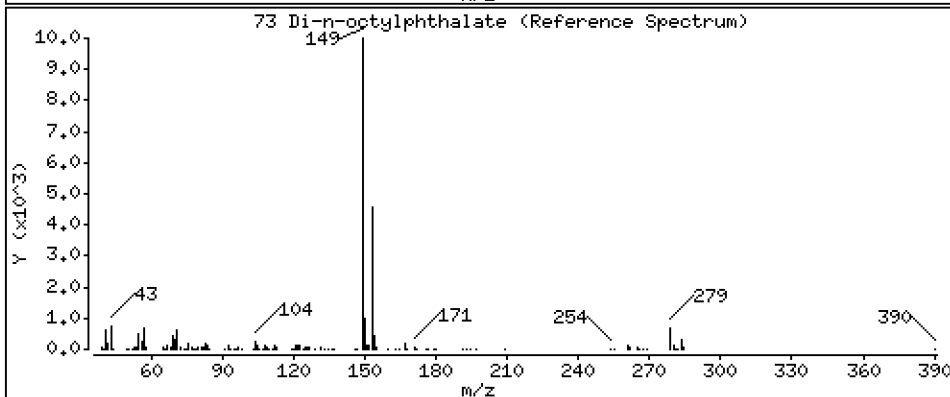
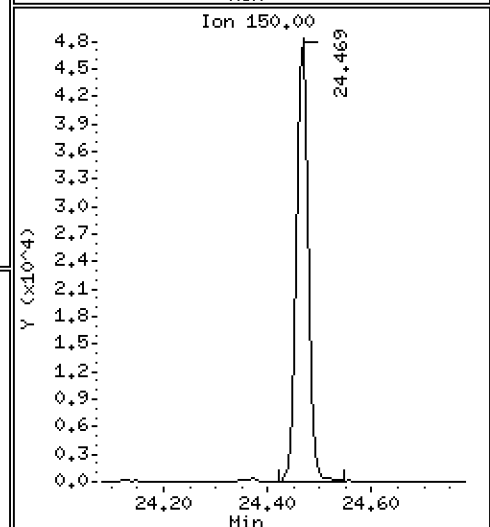
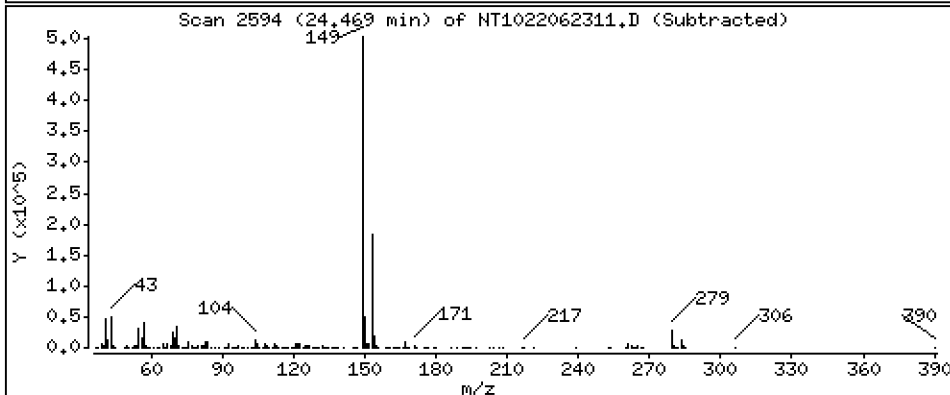
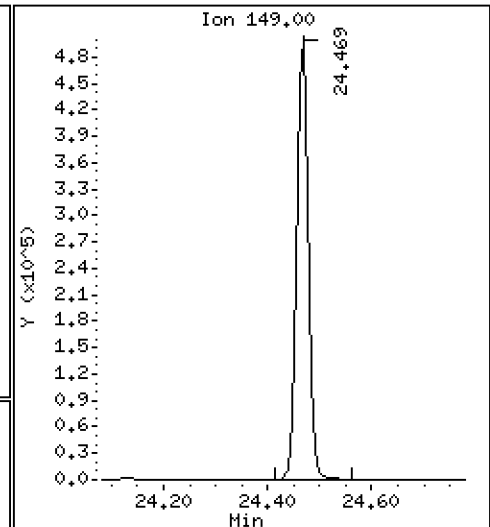
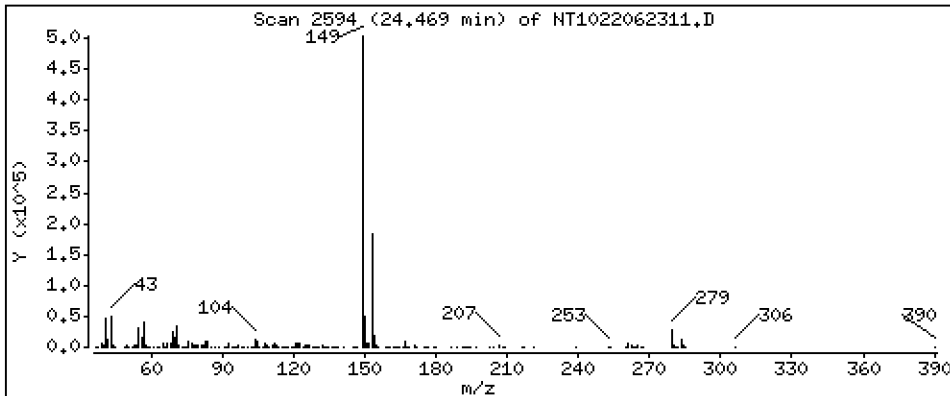
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,502 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

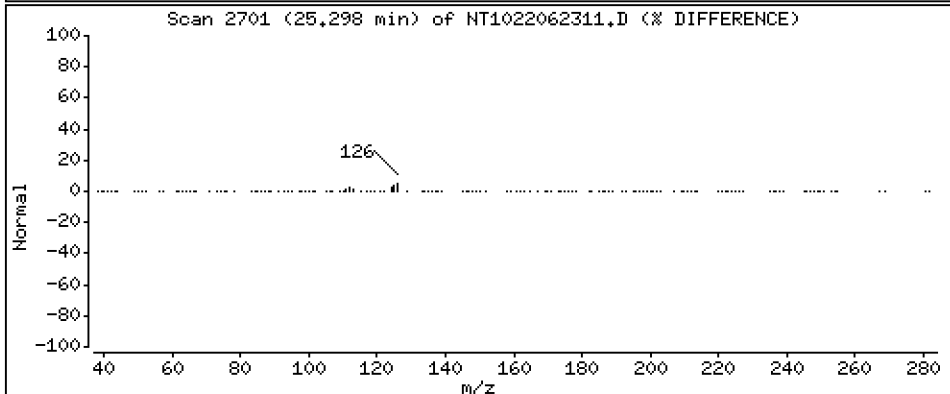
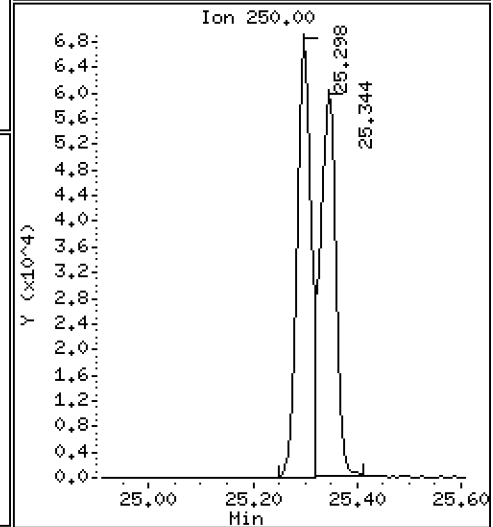
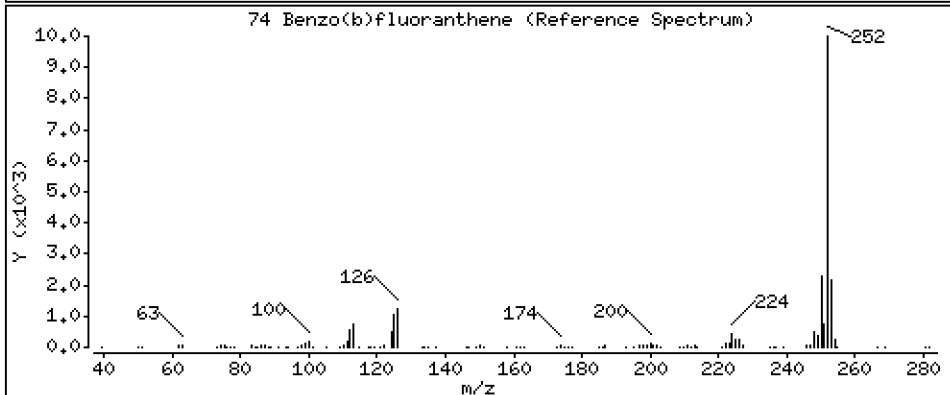
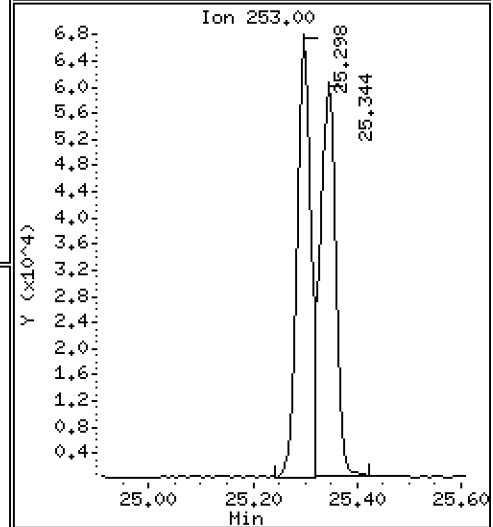
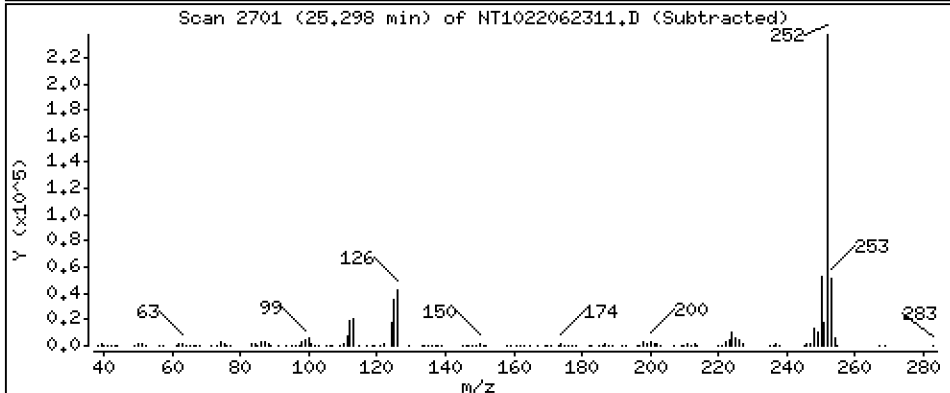
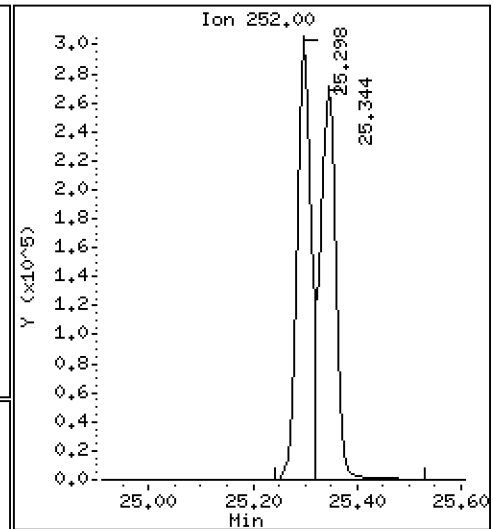
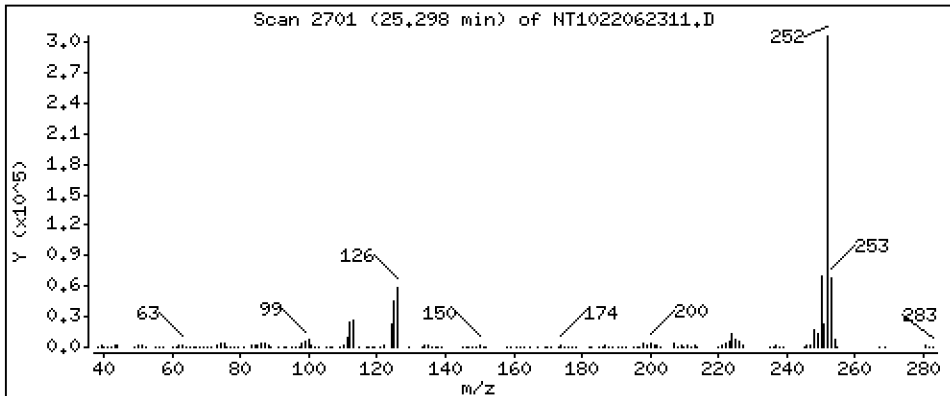
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,955 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

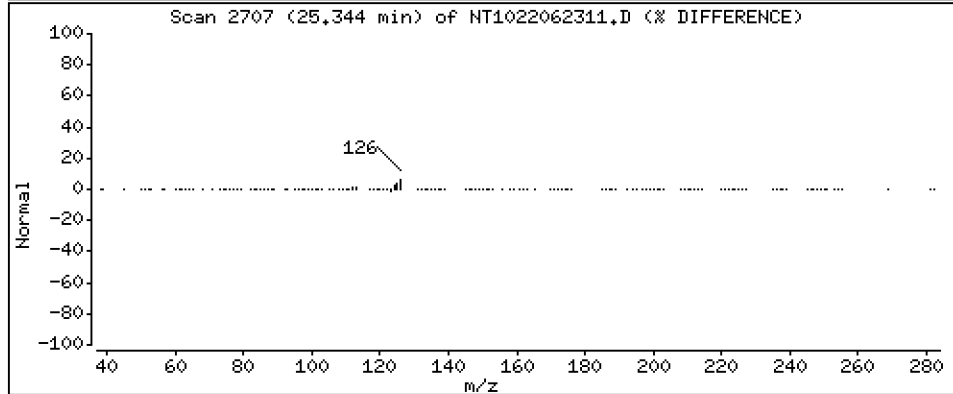
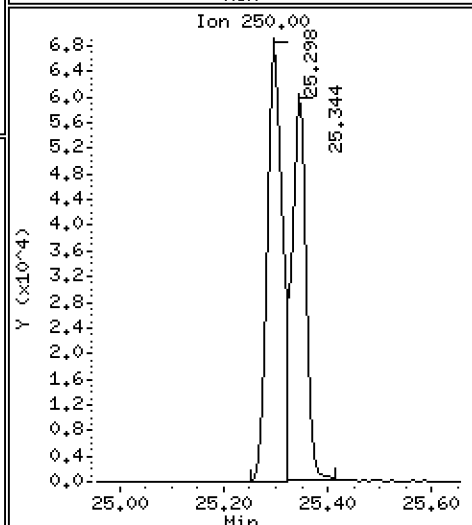
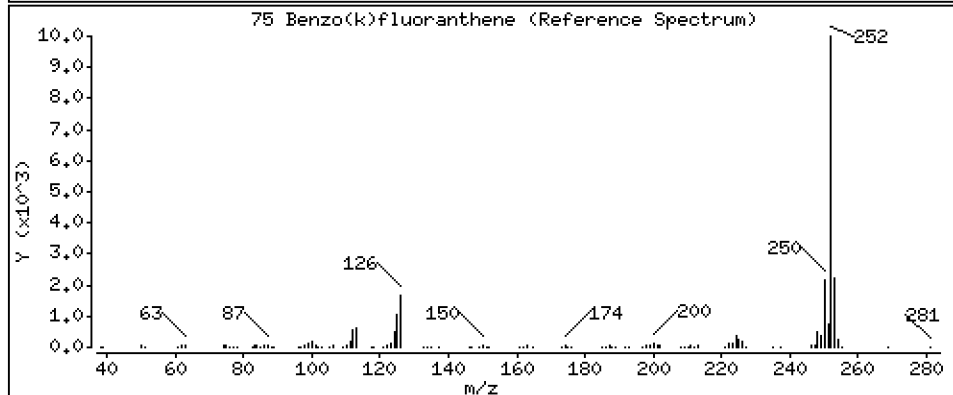
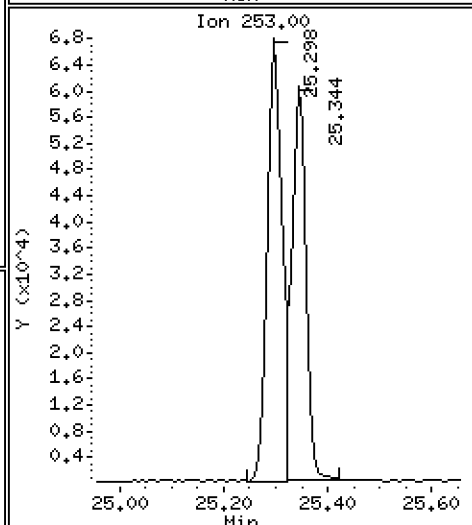
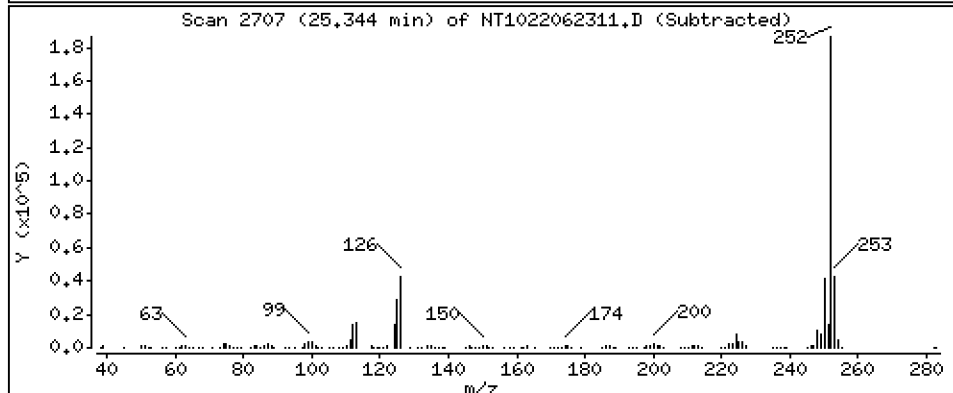
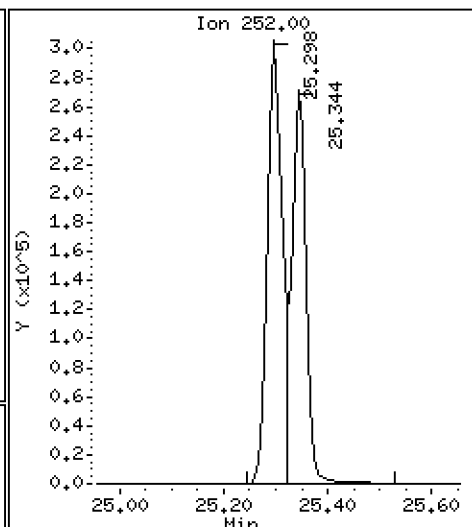
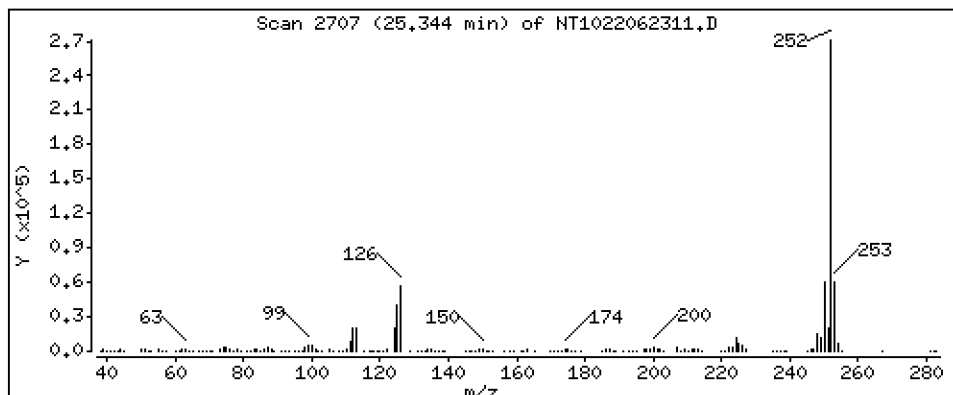
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 5,262 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

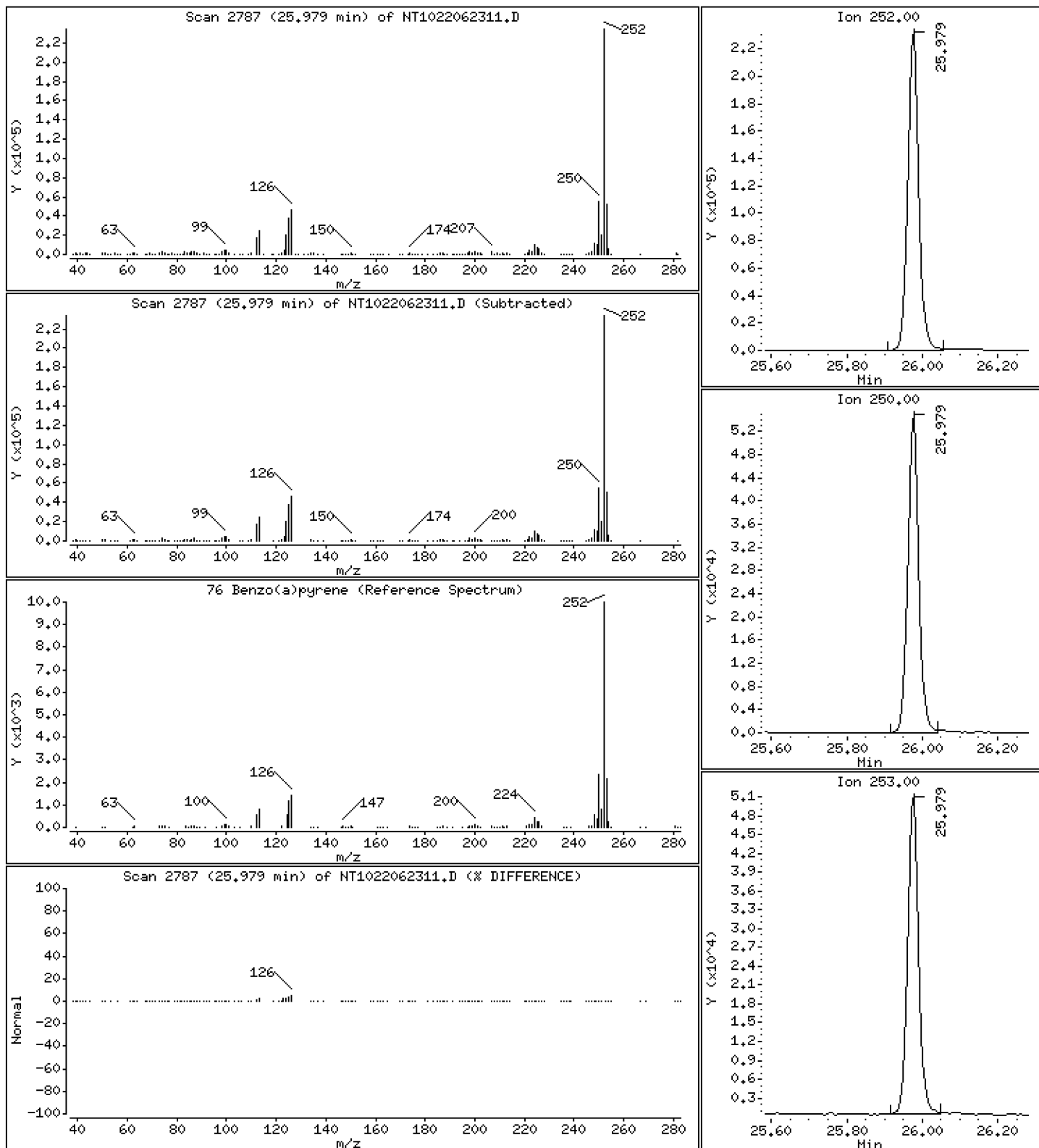
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,900 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

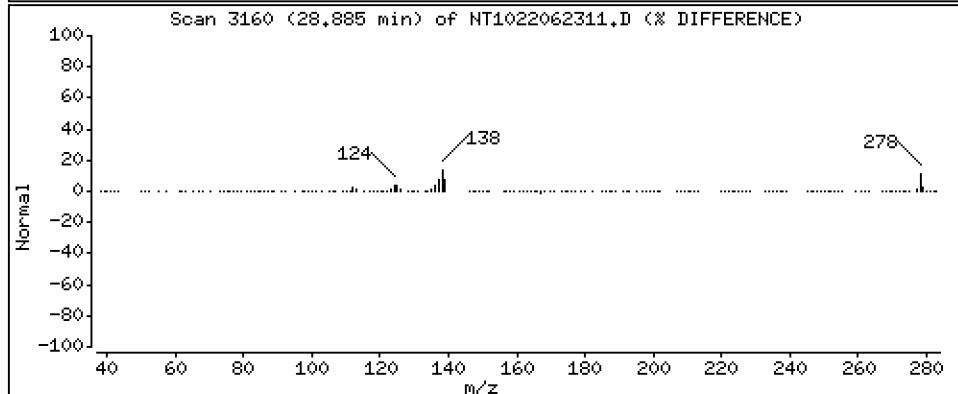
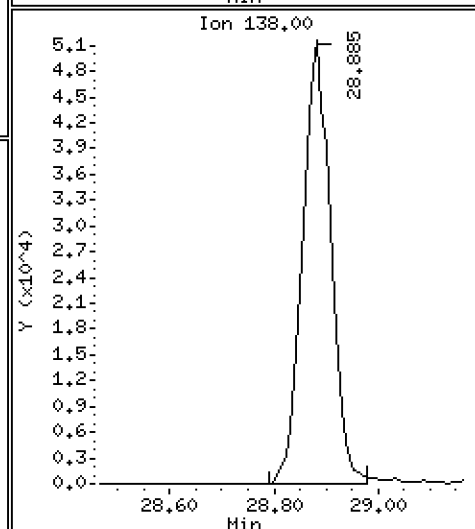
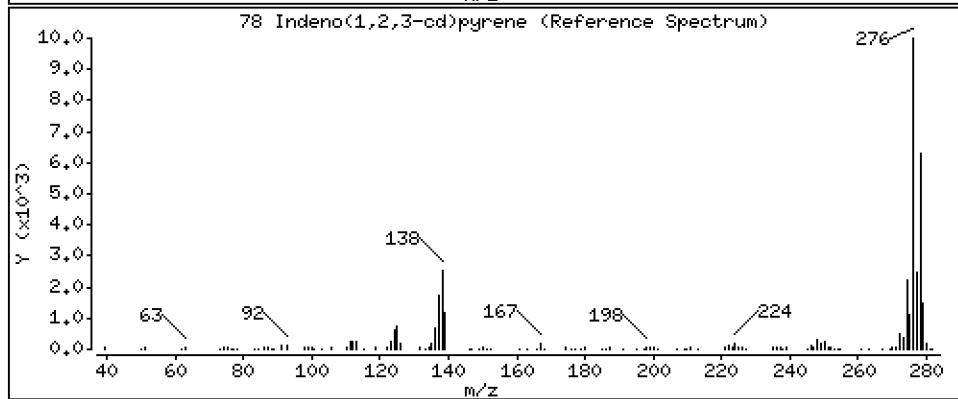
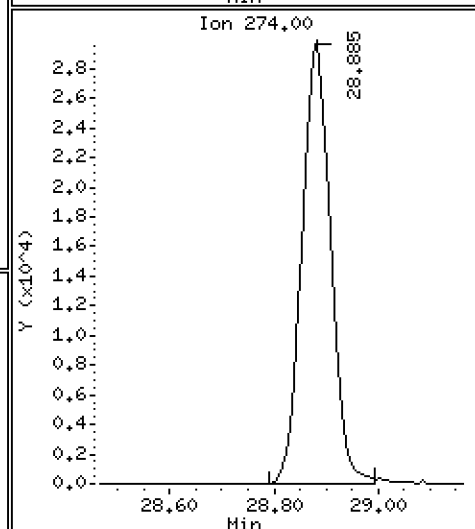
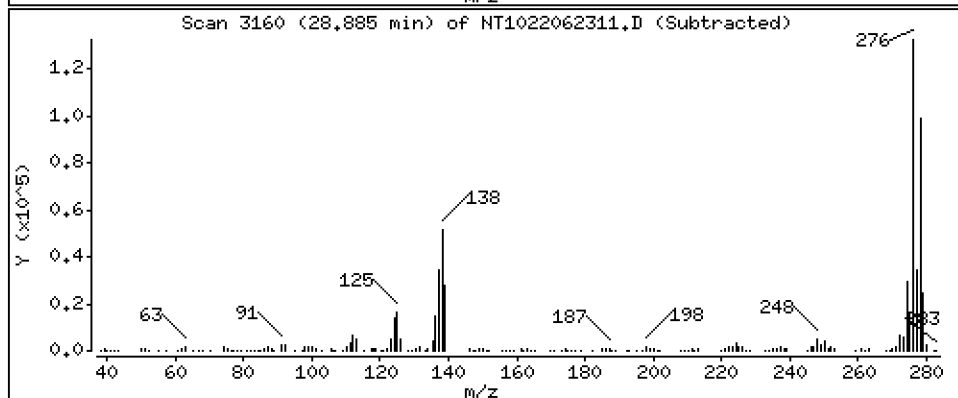
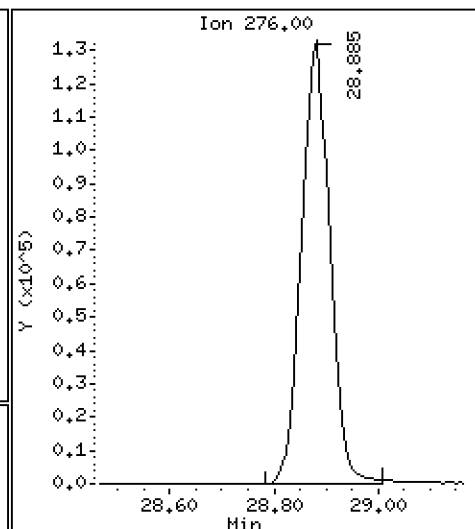
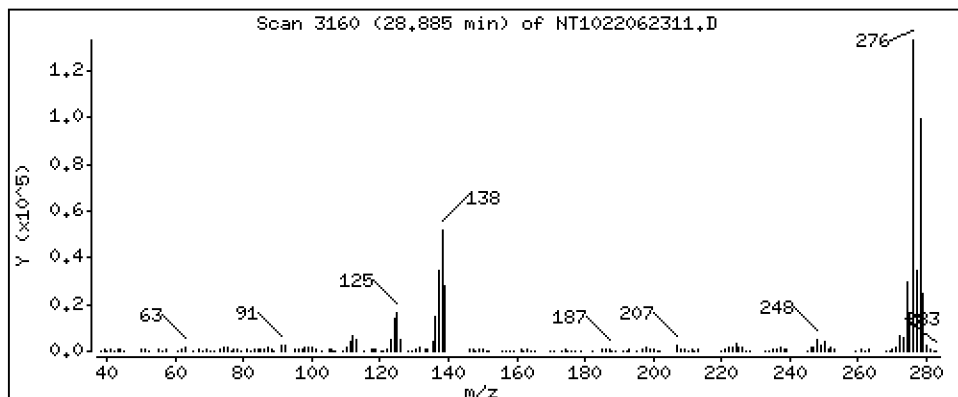
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,763 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

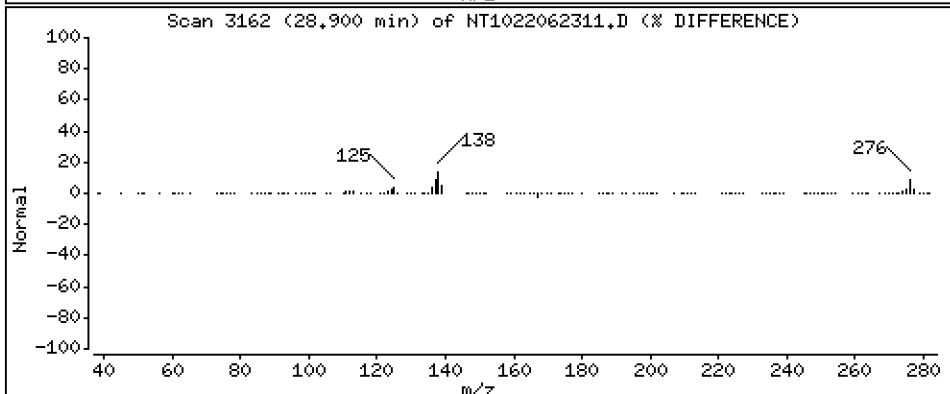
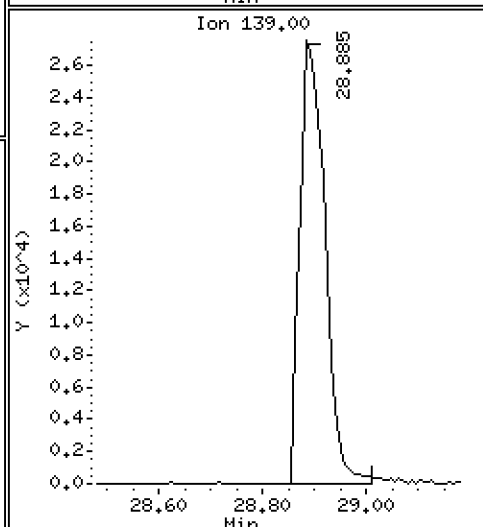
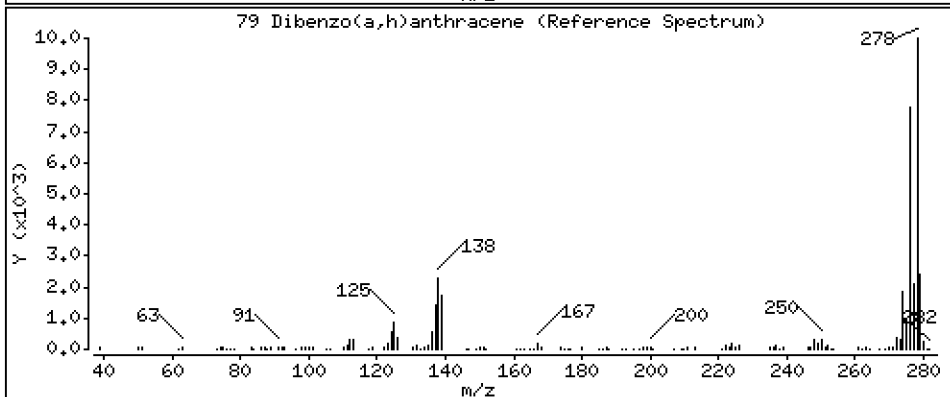
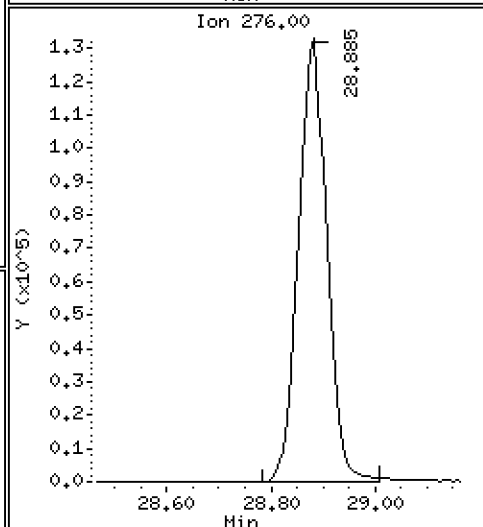
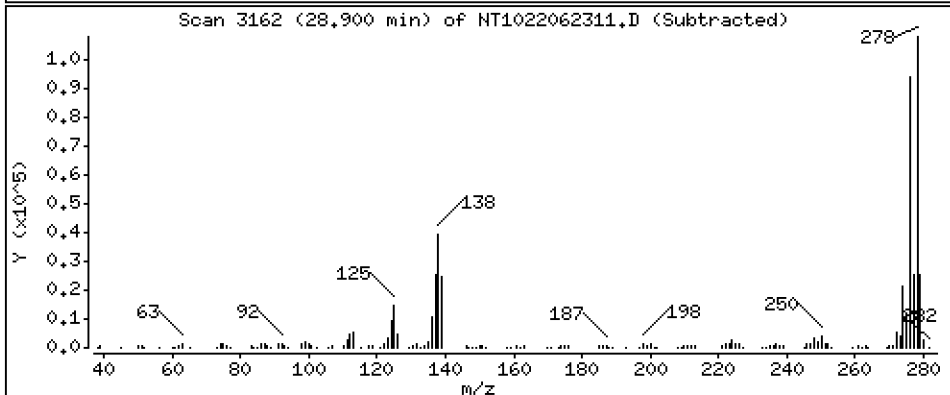
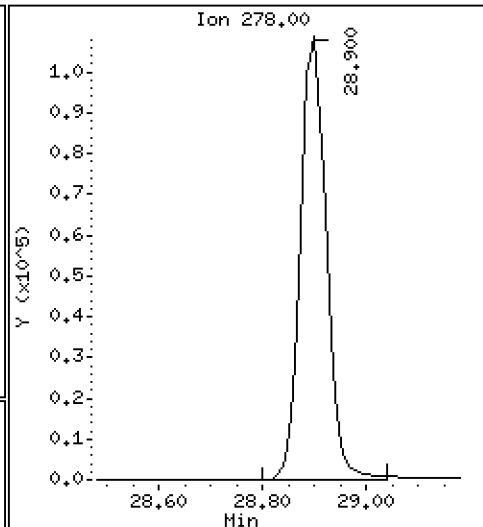
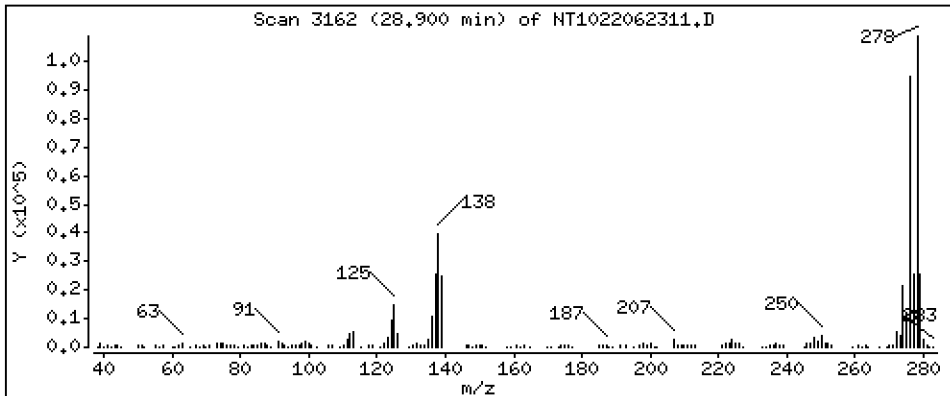
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,675 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

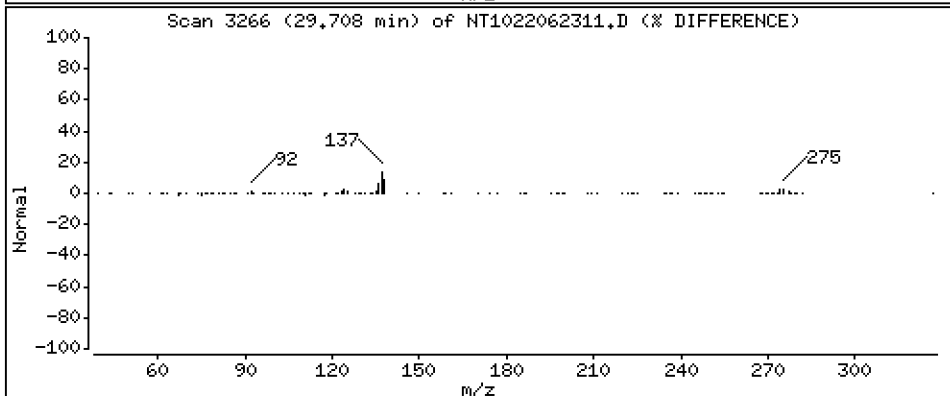
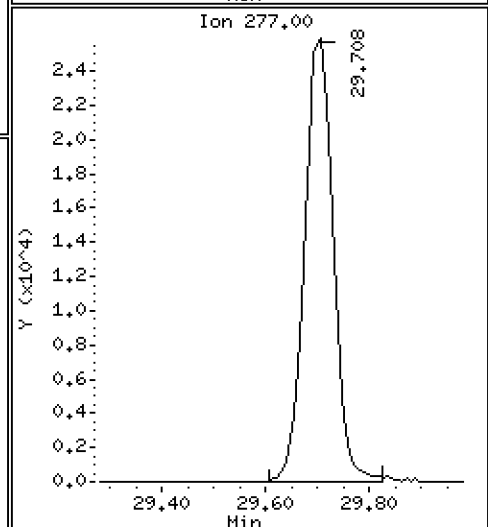
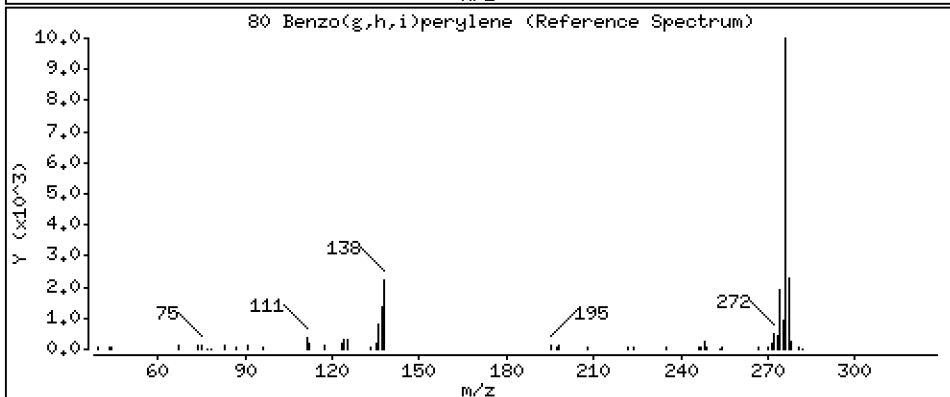
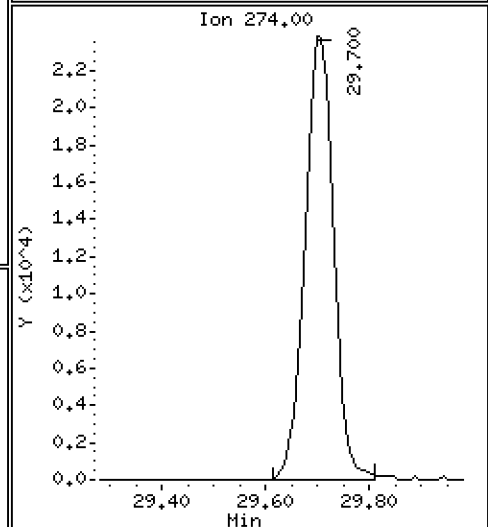
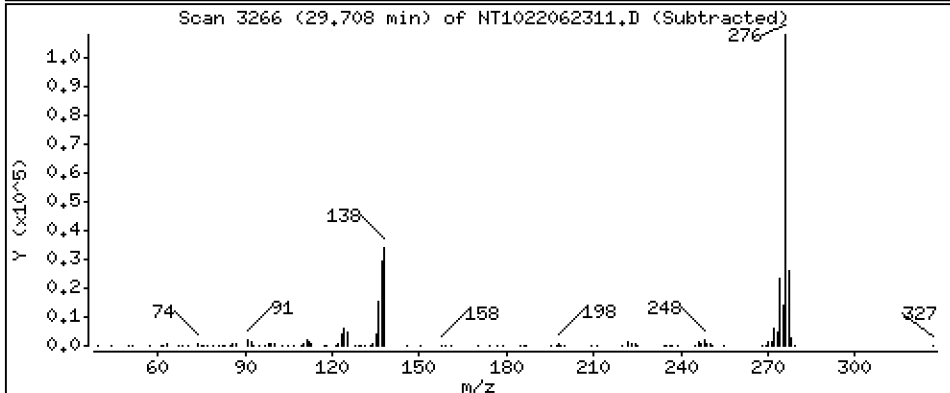
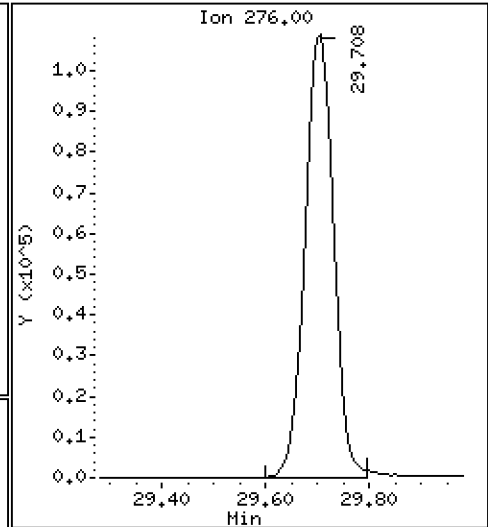
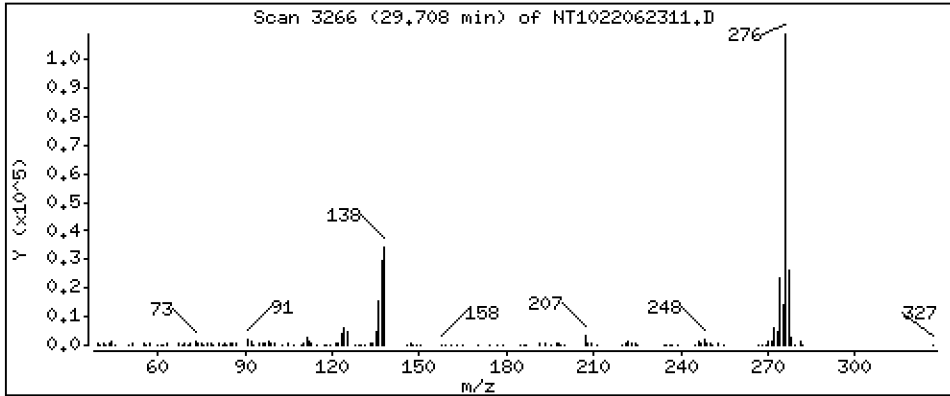
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,912 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

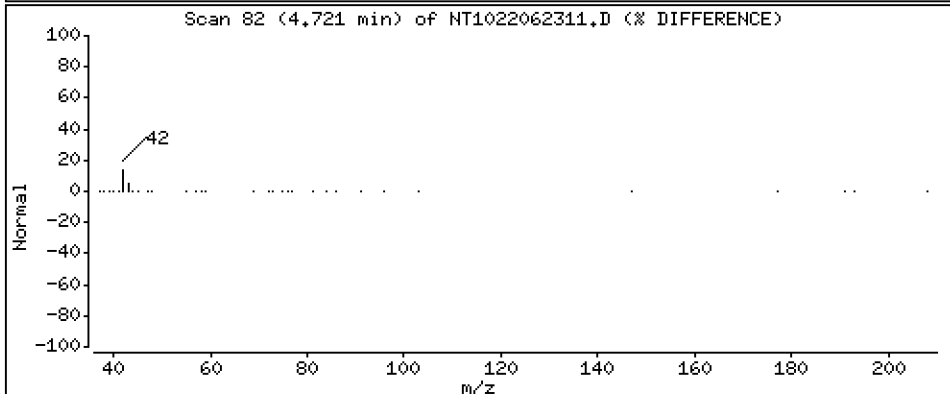
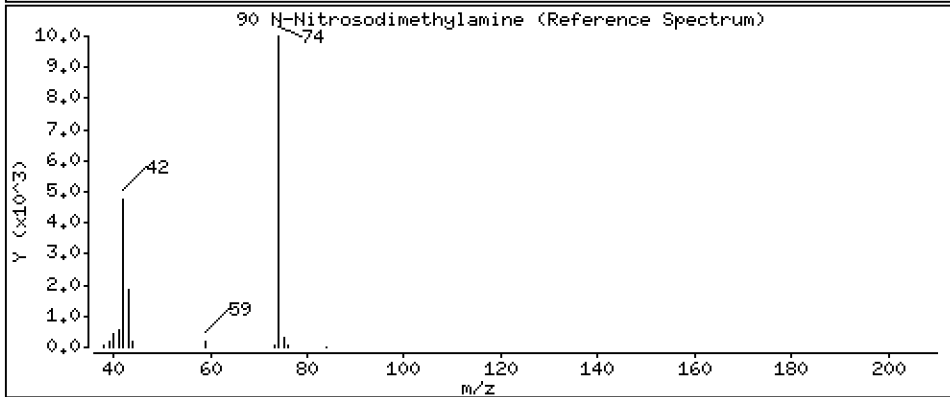
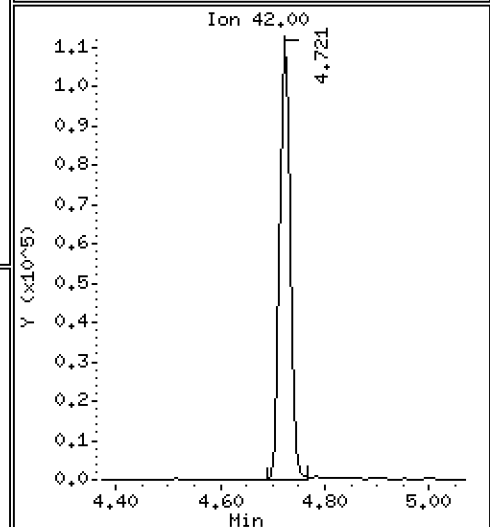
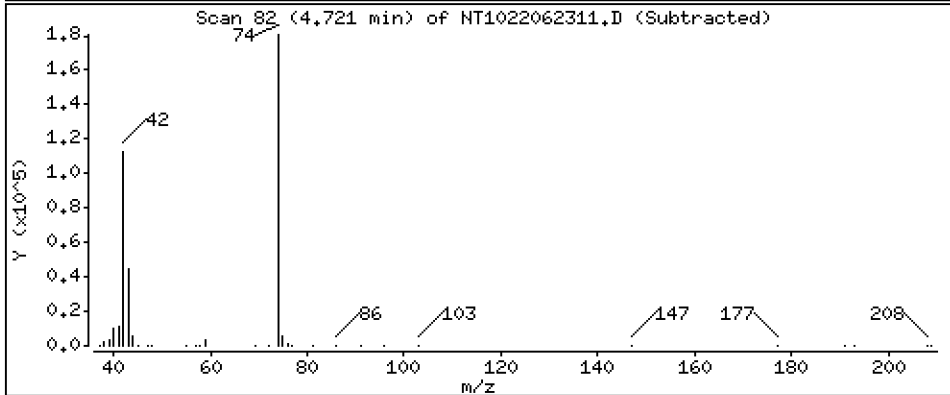
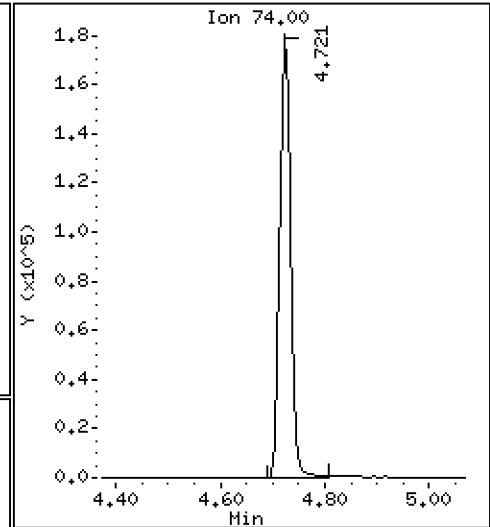
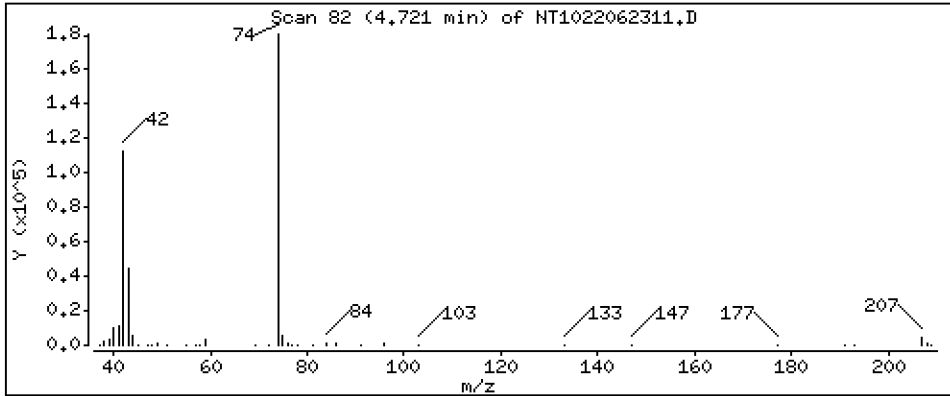
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 6,686 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

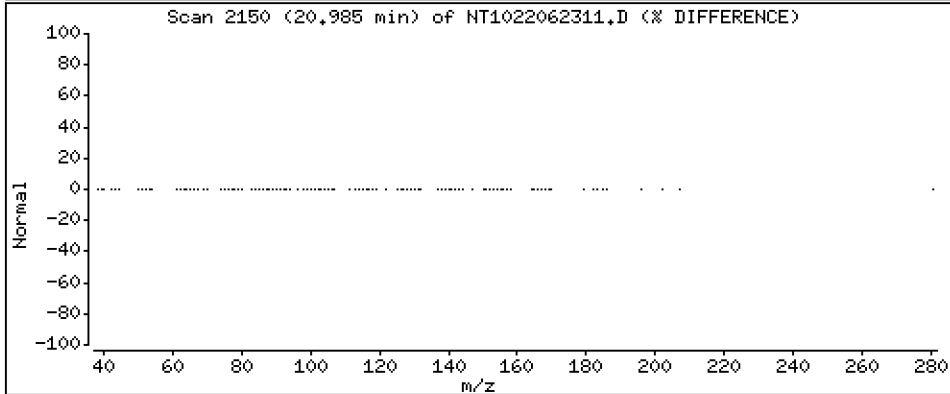
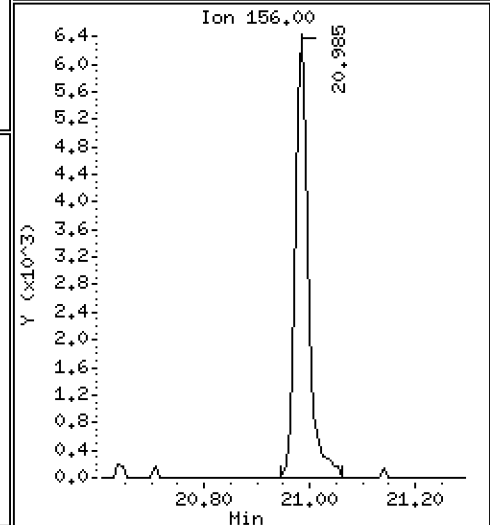
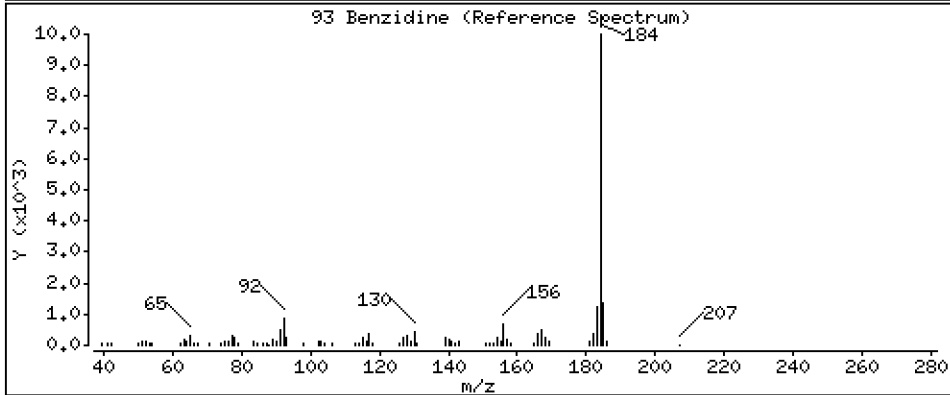
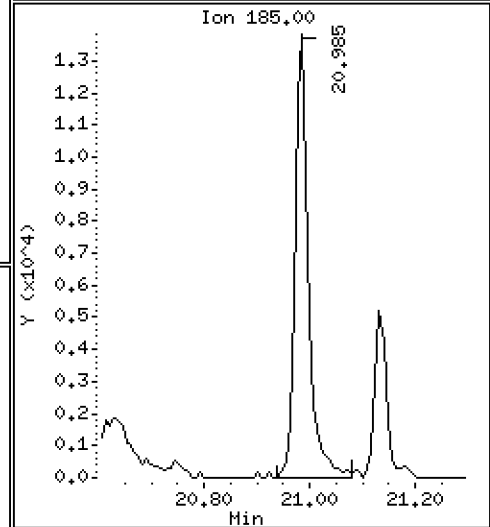
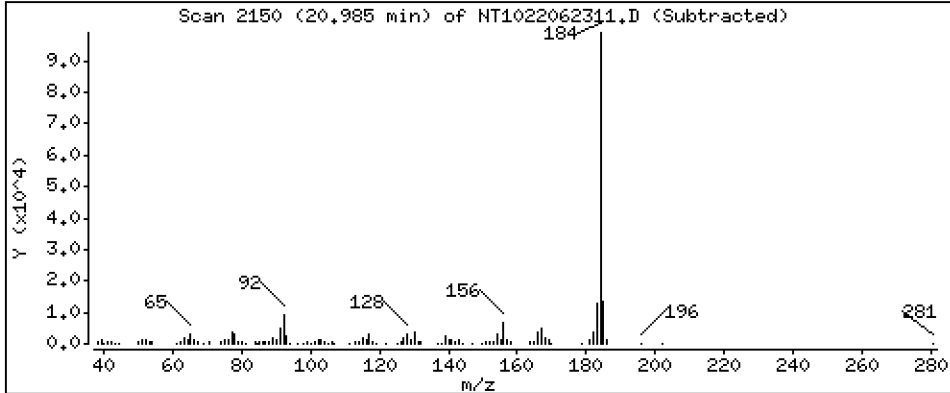
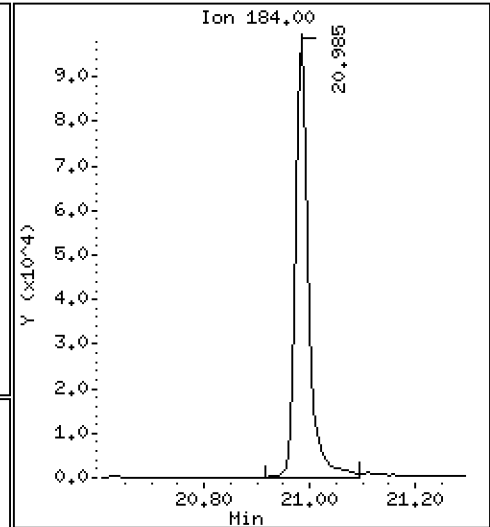
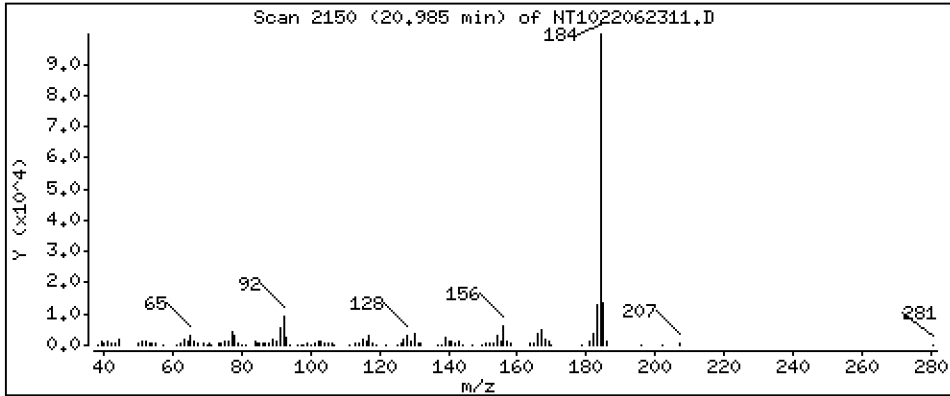
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 3,485 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

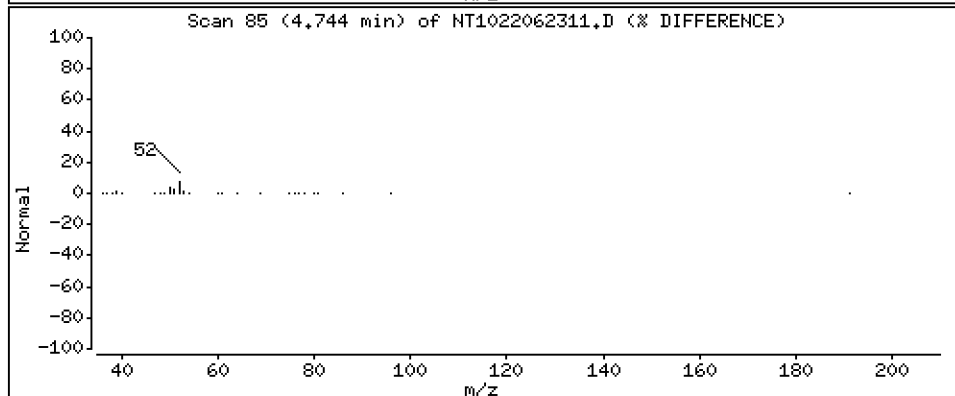
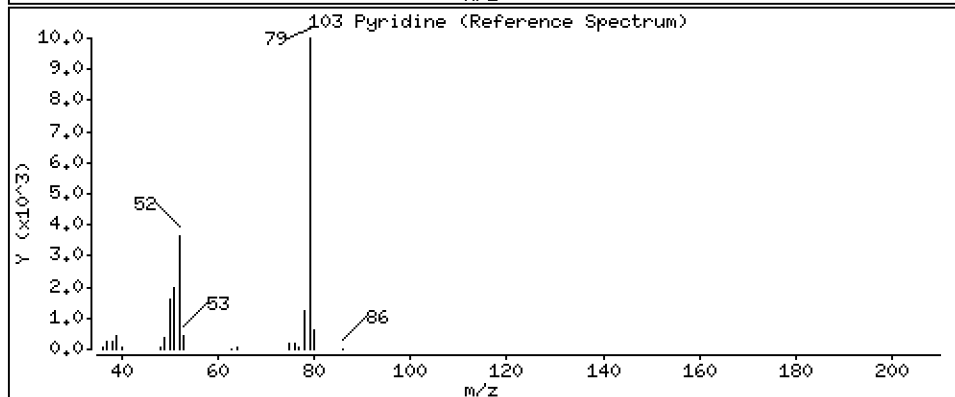
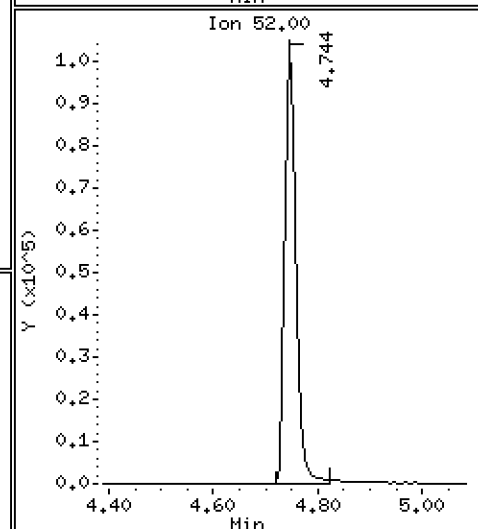
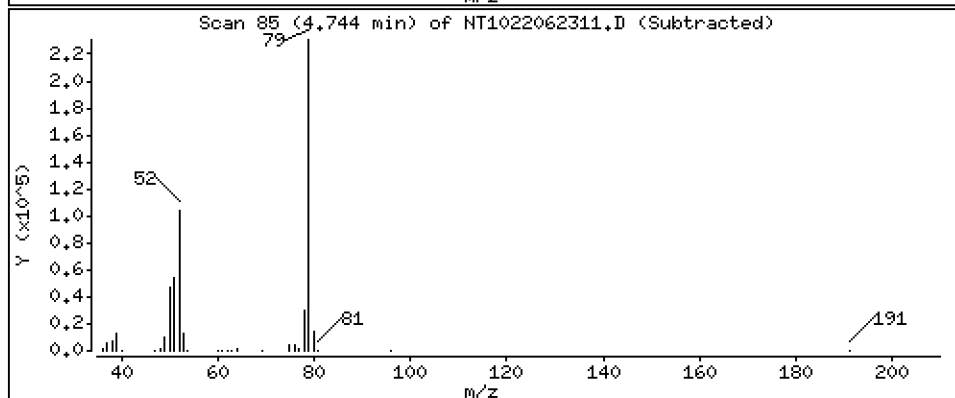
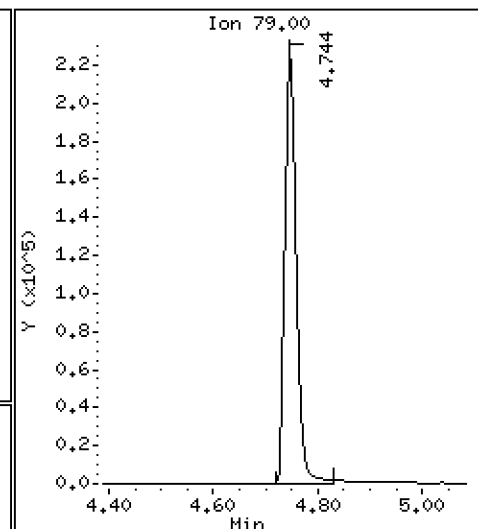
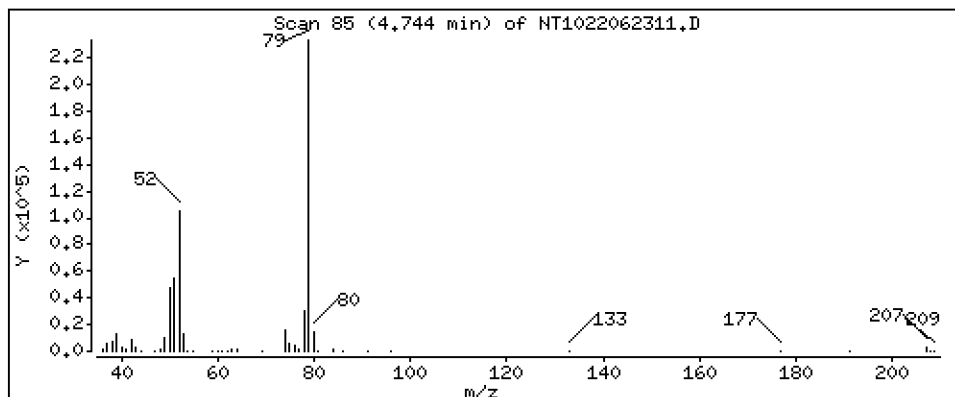
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 3,149 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

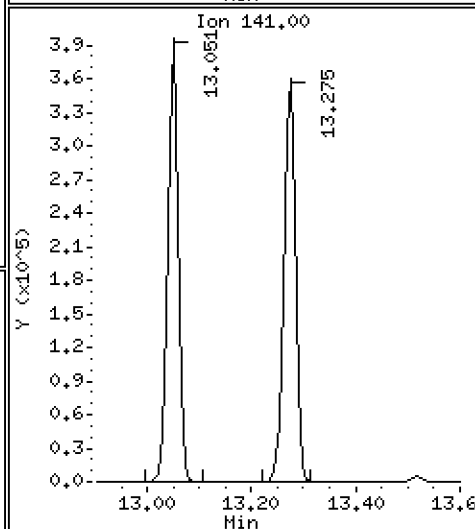
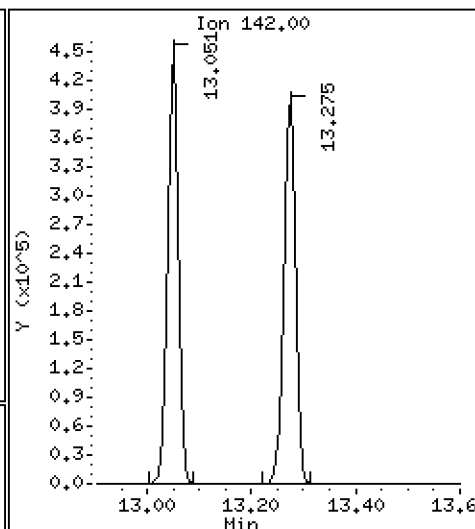
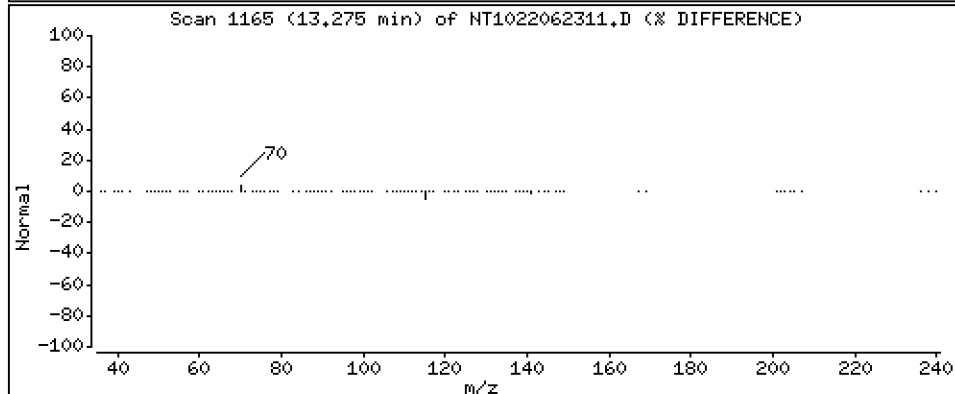
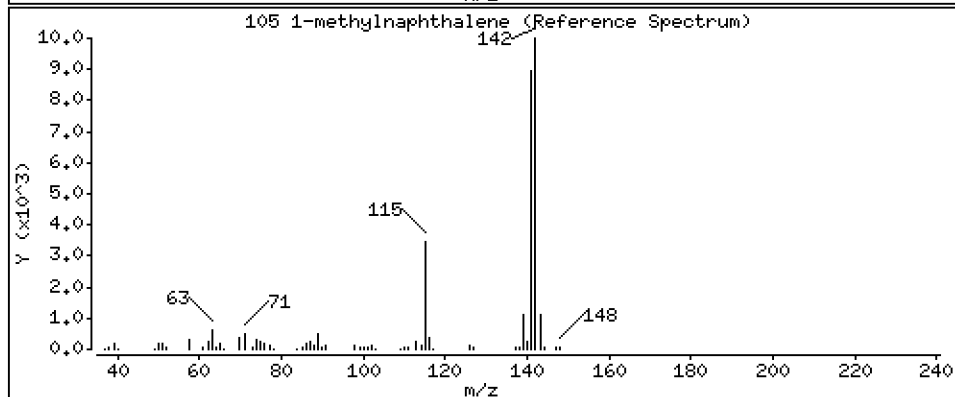
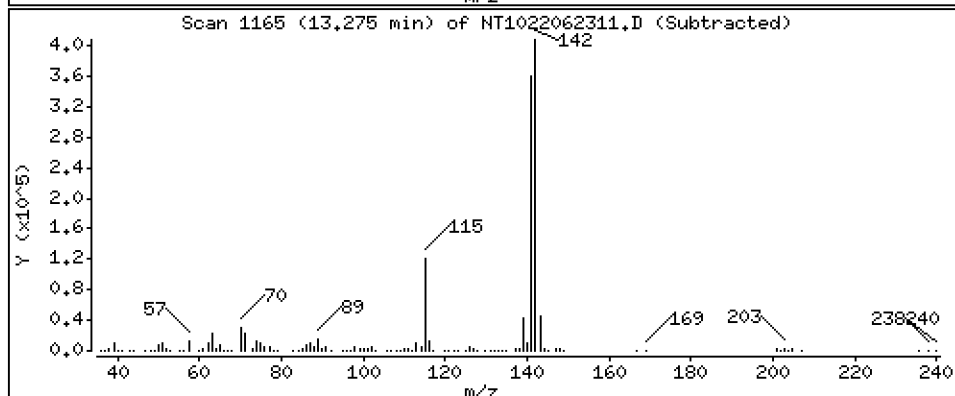
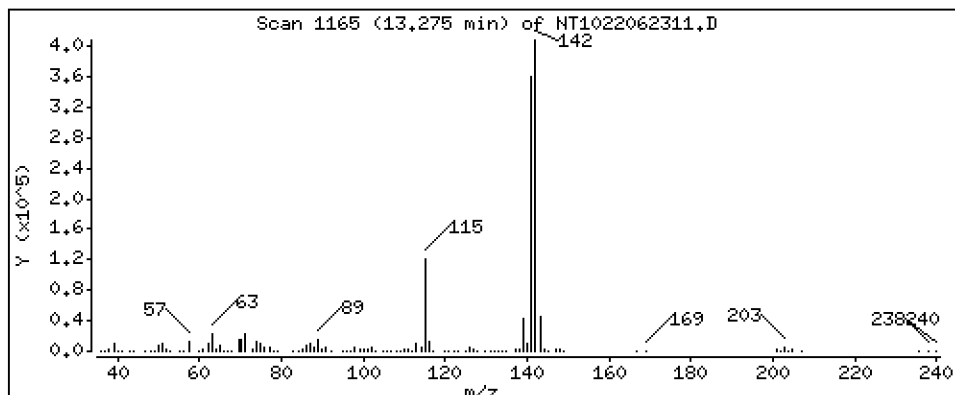
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,162 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

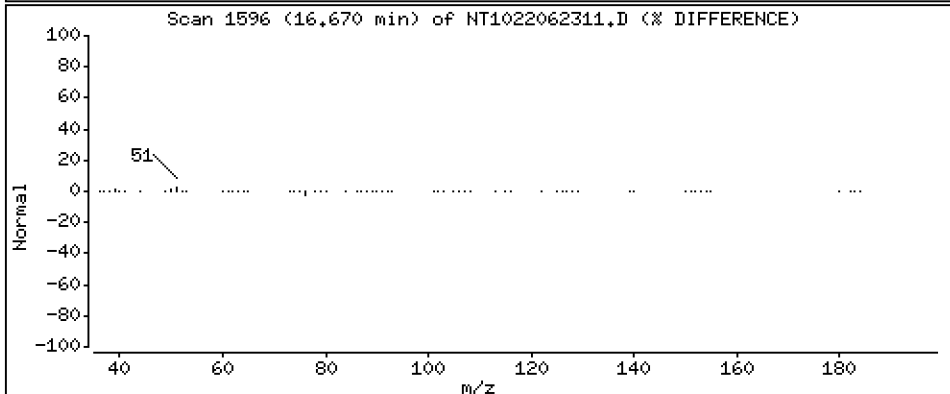
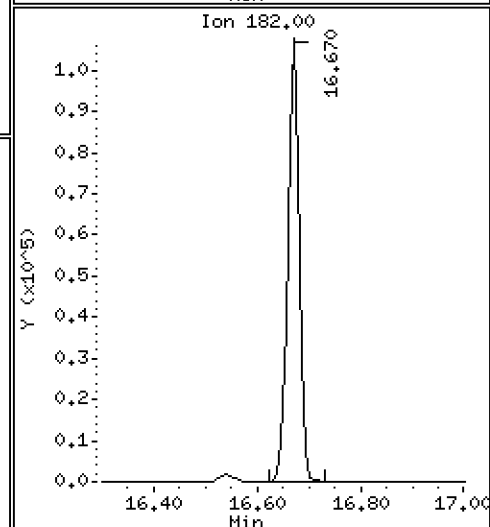
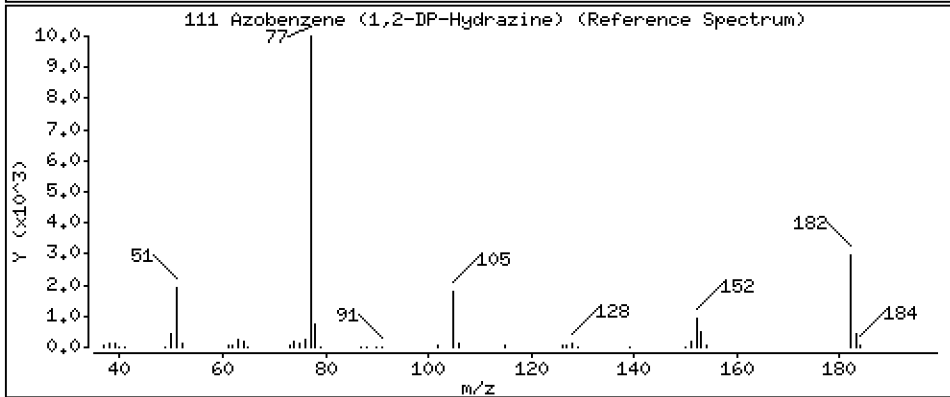
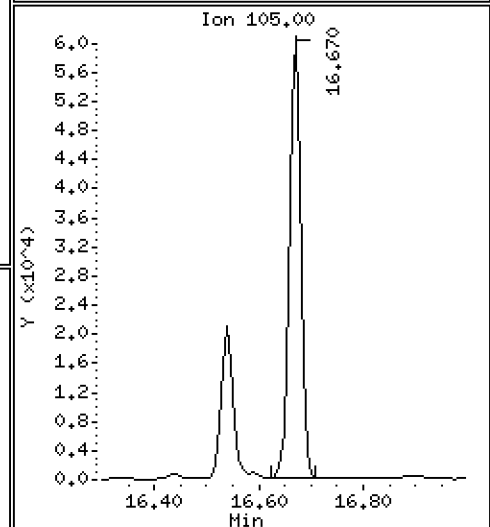
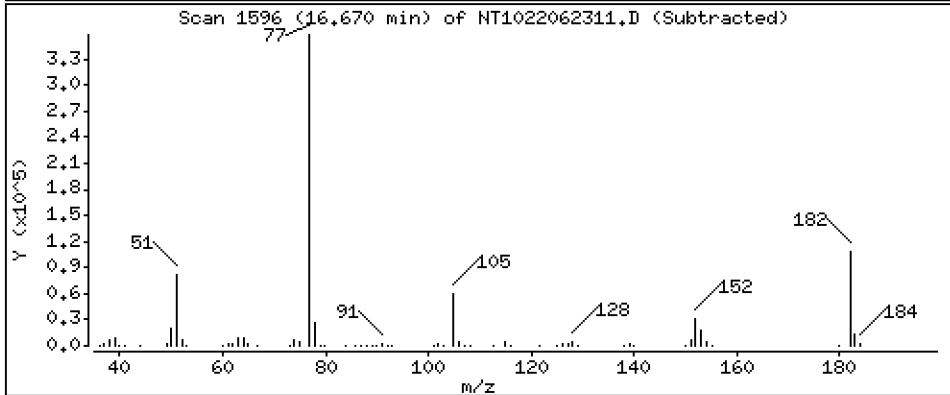
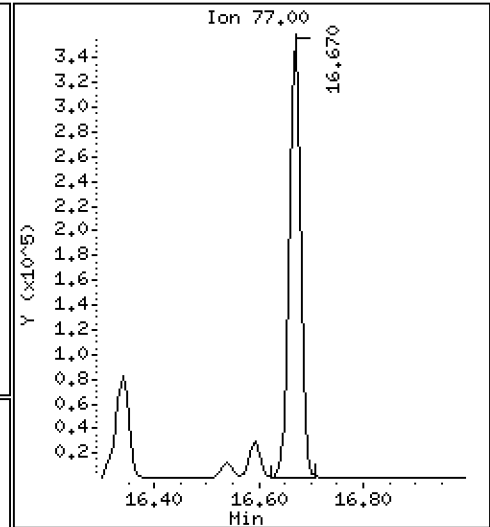
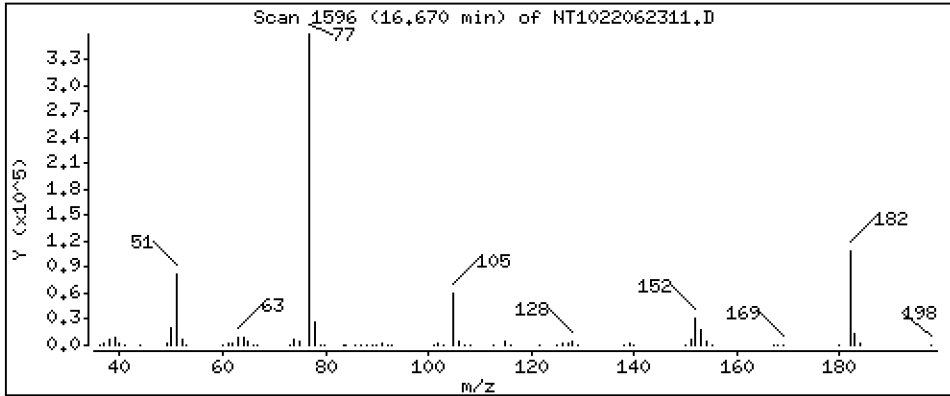
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4.882 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

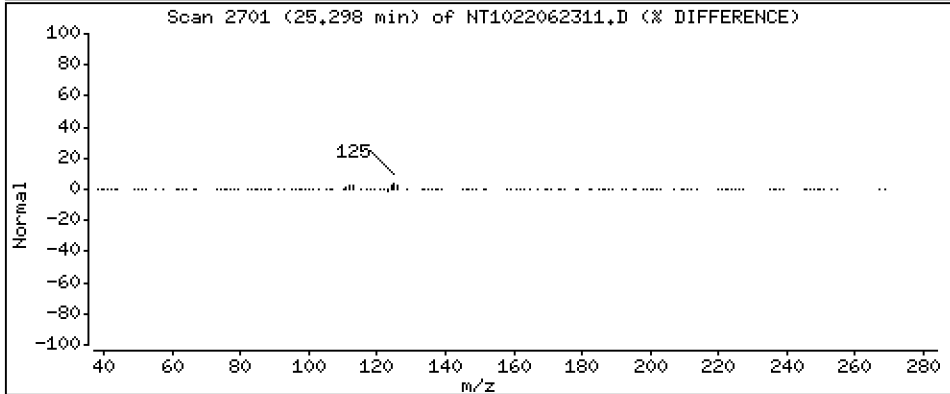
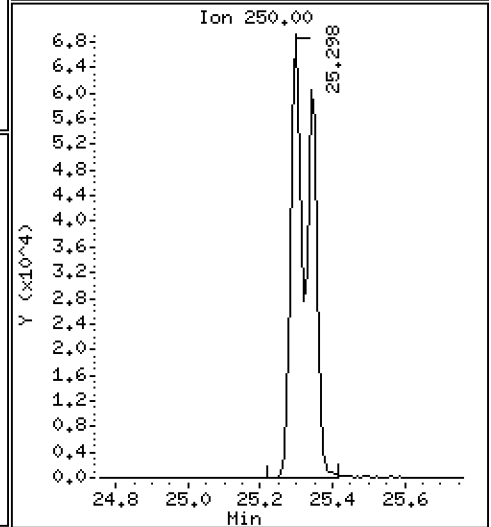
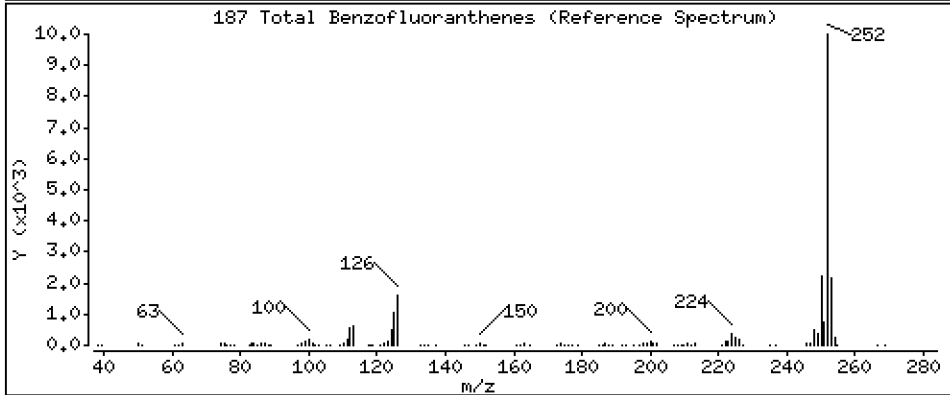
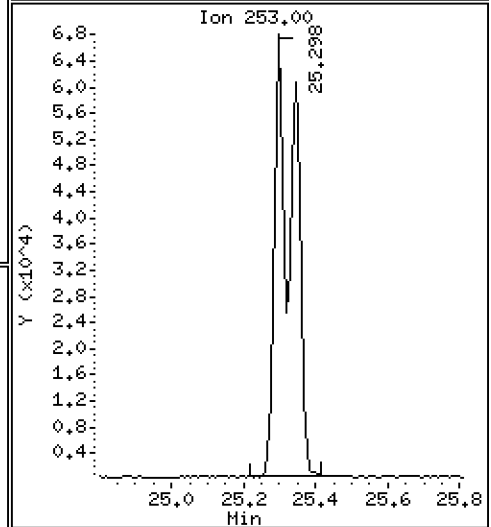
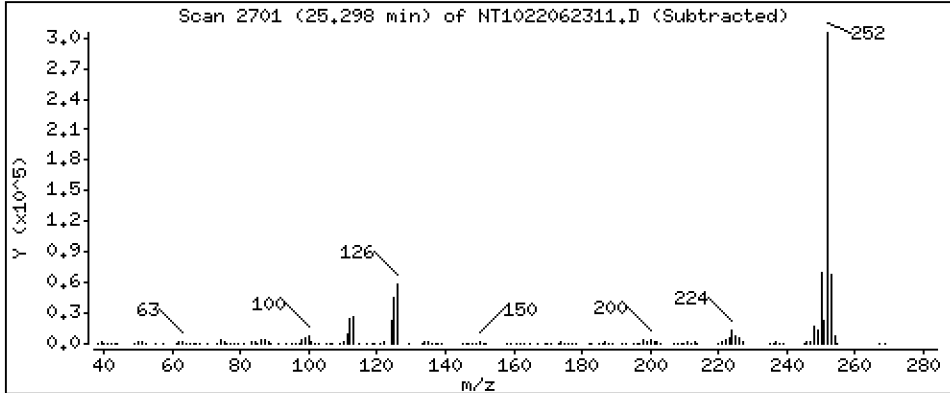
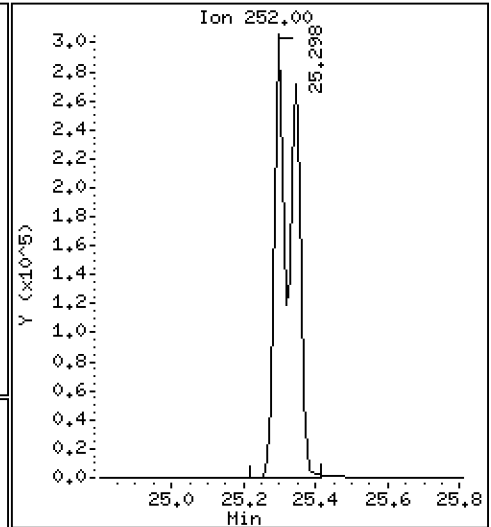
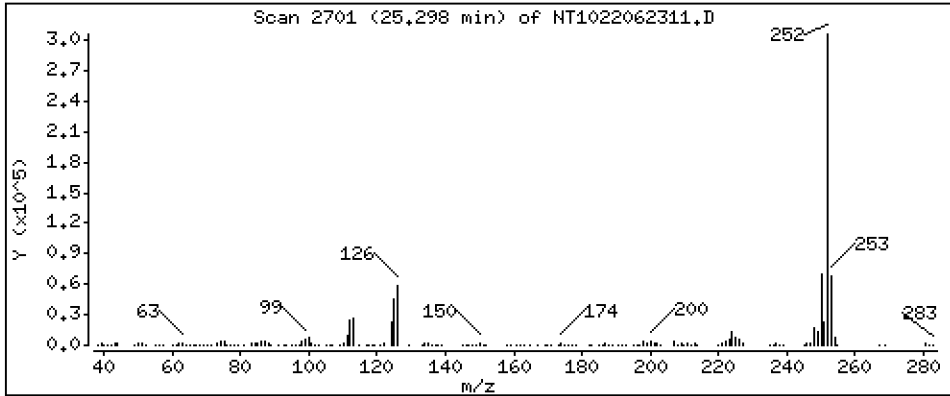
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,832 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

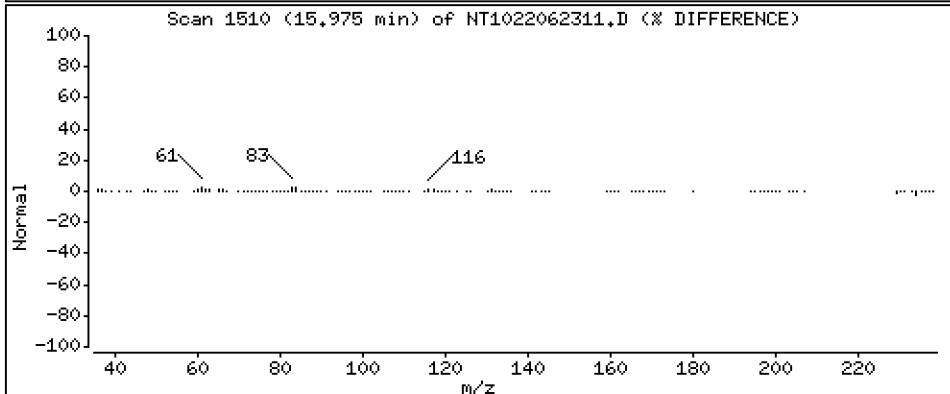
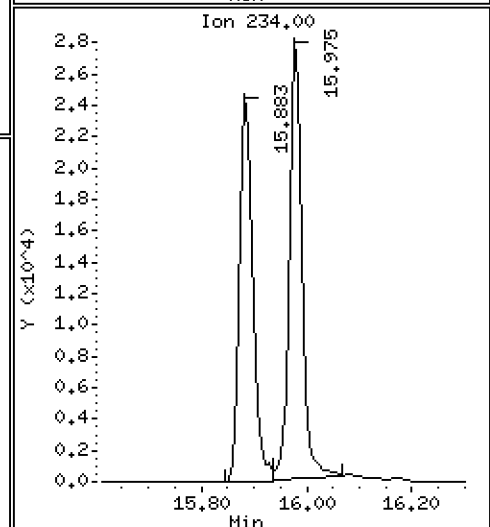
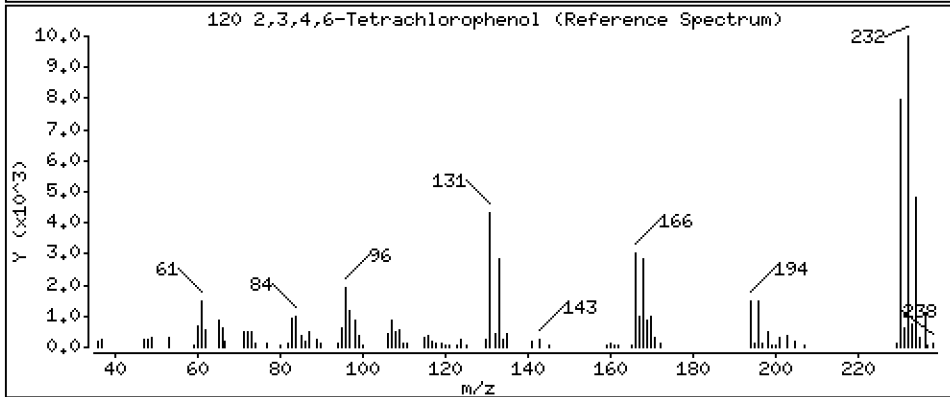
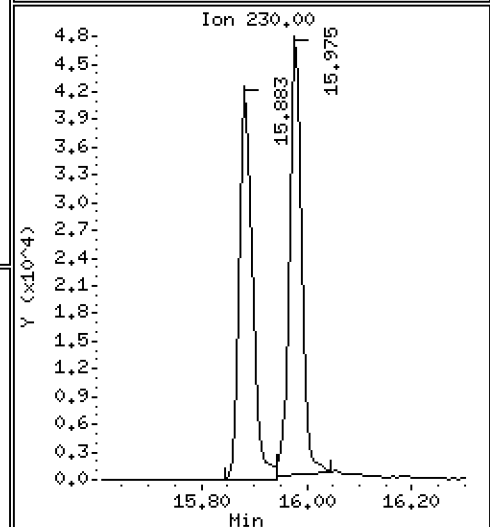
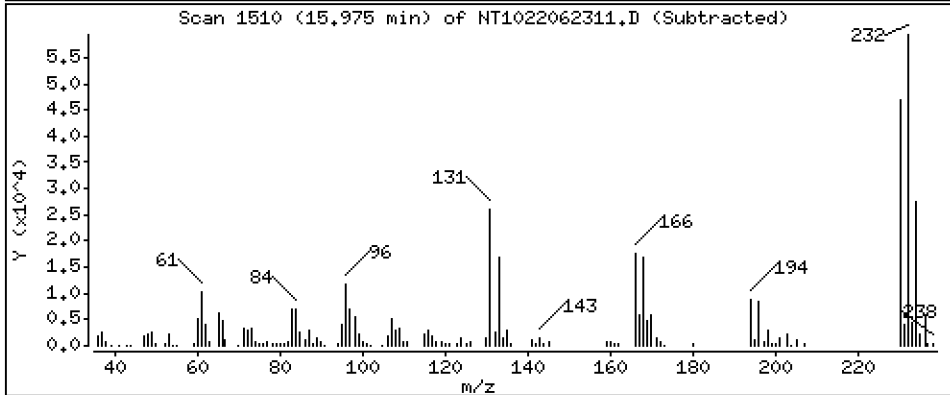
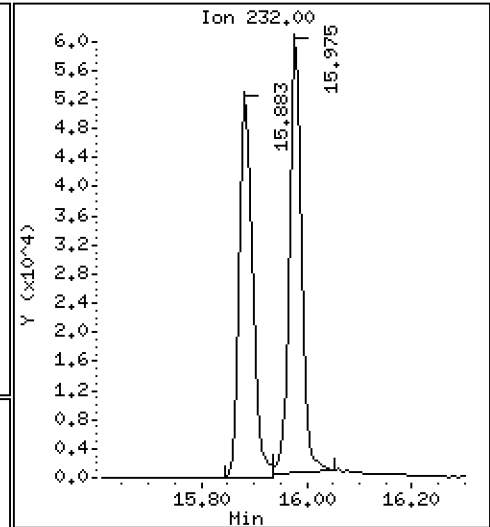
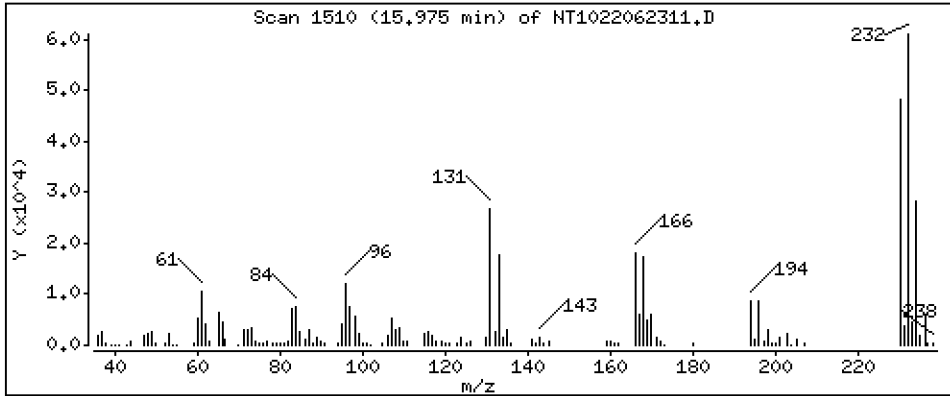
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,000 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220623.b\NT1022062311.D
 Lab Smp Id: SKF0270-SCV1
 Inj Date : 23-JUN-2022 15:20
 Operator : VTS
 Smp Info : SKF0270-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Meth Date : 24-Jun-2022 08:38 yev
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.898	6.891	(0.757)	447953	8.01867	8.019
\$ 2 Phenol-d5	99		8.482	8.475	(0.930)	653204	7.88040	7.880
3 Phenol	94		8.506	8.498	(0.933)	370864	5.13458	5.135
\$ 5 2-Chlorophenol-d4	132		8.753	8.745	(0.960)	431694	7.58399	7.584
4 Bis(2-Chloroethyl)ether	93		8.660	8.645	(0.950)	301080	5.79201	5.792
6 2-Chlorophenol	128		8.784	8.776	(0.963)	299371	5.19893	5.199
7 1,3-Dichlorobenzene	146		9.055	9.039	(0.993)	312260	5.01369	5.014
* 8 1,4-Dichlorobenzene-d4	152		9.117	9.101	(1.000)	152987	4.00000	
9 1,4-Dichlorobenzene	146		9.148	9.132	(1.003)	260034	5.29668	5.297
\$ 10 1,2-Dichlorobenzene-d4	152		9.474	9.466	(1.039)	174442	4.97336	4.973
12 1,2-Dichlorobenzene	146		9.505	9.489	(1.043)	265143	5.08744	5.087
11 Benzyl alcohol	108		9.380	9.373	(1.029)	157701	5.48088	5.481
14 2,2'-oxybis(1-Chloropropane)	121		9.683	9.676	(1.062)	87054	7.06310	7.063
13 2-Methylphenol	108		9.613	9.606	(1.054)	197804	4.44171	4.442
17 Hexachloroethane	117		10.095	10.079	(1.107)	115905	5.29620	5.296
16 N-Nitroso-di-n-propylamine	70		9.939	9.924	(1.090)	158444	5.11579	5.116
15 4-Methylphenol	108		9.893	9.877	(1.085)	218560	4.59234	4.592
\$ 18 Nitrobenzene-d5	82		10.203	10.196	(0.879)	266032	4.94671	4.947
19 Nitrobenzene	77		10.242	10.227	(0.883)	278529	5.13849	5.138
20 Isophorone	82		10.684	10.677	(0.921)	581184	7.41183	7.412
21 2-Nitrophenol	139		10.876	10.859	(0.937)	175569	5.12801	5.128
22 2,4-Dimethylphenol	107		10.936	10.919	(0.942)	196968	4.73580	4.736
23 Bis(2-Chloroethoxy)methane	93		11.123	11.106	(0.959)	270186	5.73516	5.735
24 Benzoic acid	105		11.106	11.140	(0.957)	143508	6.62128	6.621
25 2,4-Dichlorophenol	162		11.335	11.326	(0.977)	234378	5.54474	5.545
26 1,2,4-Trichlorobenzene	180		11.519	11.504	(0.993)	221798	4.88841	4.888
* 27 Naphthalene-d8	136		11.604	11.589	(1.000)	505418	4.00000	
28 Naphthalene	128		11.643	11.635	(1.003)	639883	4.94683	4.947
29 4-Chloroaniline	127		11.774	11.758	(1.015)	265378	4.64633	4.646
30 Hexachlorobutadiene	225		12.006	11.990	(1.035)	115567	5.33913	5.339
31 4-Chloro-3-methylphenol	107		12.756	12.741	(1.099)	244559	4.85270	4.853
32 2-Methylnaphthalene	142		13.050	13.035	(1.125)	670266	5.21373	5.214
33 Hexachlorocyclopentadiene	237		13.515	13.499	(0.887)	55412	3.32629	3.326

Compounds	QUANT SIG					CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
34 2,4,6-Trichlorophenol	196	13.677	13.662	(0.898)	170978	5.24236	5.242	
35 2,4,5-Trichlorophenol	196	13.755	13.739	(0.903)	172769	4.42727	4.427	
§ 36 2-Fluorobiphenyl	172	13.832	13.817	(0.908)	683222	5.26116	5.261	
37 2-Chloronaphthalene	162	14.049	14.033	(0.922)	625328	5.46235	5.462	
38 2-Nitroaniline	65	14.304	14.289	(0.939)	163591	5.34222	5.342	
39 Dimethylphthalate	163	14.738	14.714	(0.967)	500509	4.97347	4.973	
40 Acenaphthylene	152	14.923	14.908	(0.980)	750906	4.47637	4.476	
41 2,6-Dinitrotoluene	165	14.877	14.862	(0.977)	122846	5.25597	5.256	
* 42 Acenaphthene-d10	164	15.233	15.217	(1.000)	286969	4.00000		
43 3-Nitroaniline	138	15.163	15.148	(0.995)	147993	5.37872	5.379	
44 Acenaphthene	153	15.302	15.287	(1.005)	412233	4.93939	4.939	
45 2,4-Dinitrophenol	184	15.380	15.364	(1.010)	21043	2.02332	2.023	
46 Dibenzofuran	168	15.635	15.619	(1.026)	708335	5.34049	5.340	
47 4-Nitrophenol	109	15.511	15.488	(1.018)	40185	4.43466	4.435	
48 2,4-Dinitrotoluene	165	15.689	15.673	(1.030)	165818	5.30810	5.308	
50 Diethylphthalate	149	16.199	16.184	(1.063)	463792	5.37240	5.372	
49 Fluorene	166	16.354	16.331	(1.074)	728048	4.59382	4.594	
51 4-Chlorophenyl-phenylether	204	16.338	16.323	(1.073)	376282	5.40653	5.407	
52 4-Nitroaniline	138	16.439	16.423	(1.079)	140376	5.09381	5.094	
53 4,6-Dinitro-2-methylphenol	198	16.539	16.523	(0.904)	85433	4.31421	4.314	
54 N-Nitrosodiphenylamine	169	16.593	16.570	(0.907)	395951	4.98277	4.983	
§ 55 2,4,6-Tribromophenol	330	16.894	16.870	(1.109)	90754	6.94559	6.946	
56 4-Bromophenyl-phenylether	248	17.348	17.333	(0.948)	200887	5.45634	5.456	
57 Hexachlorobenzene	284	17.673	17.650	(0.966)	171847	5.11363	5.114	
58 Pentachlorophenol	266	18.037	18.014	(0.986)	24841	3.23849	3.238	
* 59 Phenanthrene-d10	188	18.300	18.277	(1.000)	505363	4.00000		
60 Phenanthrene	178	18.347	18.323	(1.003)	649666	4.89322	4.893	
61 Anthracene	178	18.439	18.416	(1.008)	683072	4.82784	4.828	
62 Carbazole	167	18.772	18.749	(1.026)	726709	5.56744	5.567	
63 Di-n-butylphthalate	149	19.584	19.554	(1.070)	1082696	5.32836	5.328	
64 Fluoranthene	202	20.753	20.722	(0.887)	1048305	4.19233	4.192	
65 Pyrene	202	21.178	21.147	(0.905)	1006992	4.57159	4.572	
§ 66 Terphenyl-d14	244	21.465	21.441	(0.918)	561068	4.66854	4.669	
67 Butylbenzylphthalate	149	22.401	22.371	(0.958)	338140	4.86029	4.860	
68 Benzo(a)anthracene	228	23.362	23.331	(0.999)	707995	4.85155	4.852	
* 69 Chrysene-d12	240	23.393	23.354	(1.000)	344386	4.00000		
70 3,3'-Dichlorobenzidine	252	23.315	23.284	(0.997)	559597	11.7678	11.77	
71 Chrysene	228	23.439	23.400	(1.002)	479984	4.72467	4.725	
72 bis(2-Ethylhexyl)phthalate	149	23.447	23.416	(0.959)	366071	5.06090	5.061	
* 134 Di-n-octylphthalate-d4	153	24.453	24.422	(1.000)	654412	4.00000		
73 Di-n-octylphthalate	149	24.469	24.430	(1.001)	818367	5.50195	5.502	
74 Benzo(b)fluoranthene	252	25.297	25.258	(0.969)	600074	4.95534	4.955	
75 Benzo(k)fluoranthene	252	25.344	25.305	(0.971)	612767	5.26231	5.262	
76 Benzo(a)pyrene	252	25.979	25.932	(0.996)	485665	4.90022	4.900	
* 77 Perylene-d12	264	26.095	26.048	(1.000)	267390	4.00000		
78 Indeno(1,2,3-cd)pyrene	276	28.884	28.814	(1.107)	503980	4.76253	4.763	
79 Dibenzo(a,h)anthracene	278	28.900	28.830	(1.107)	378728	4.67505	4.675	
80 Benzo(g,h,i)perylene	276	29.707	29.630	(1.138)	415473	4.91157	4.912	
90 N-Nitrosodimethylamine	74	4.720	4.720	(0.518)	244386	6.68622	6.686	
91 Aniline	93	Compound Not Detected.						
93 Benzidine	184	20.985	20.954	(0.897)	177079	3.48536	3.485	
103 Pyridine	79	4.743	4.736	(0.520)	326265	3.14892	3.149	
105 1-methylnaphthalene	142	13.275	13.252	(1.144)	651979	5.16205	5.162	
111 Azobenzene (1,2-DP-Hydrazine)	77	16.670	16.647	(1.094)	559493	4.88168	4.882	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.297	25.305	(0.969)	1110070	9.83152	9.832
120 2,3,4,6-Tetrachlorophenol	232	15.975	15.959	(1.049)	100330	3.99993	4.000

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-JUN-2022
 Lab File ID: NT1022062311.D Calibration Time: 16:38
 Lab Smp Id: SKF0270-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	149714	74857	299428	152987	2.19
27 Naphthalene-d8	491315	245658	982630	505418	2.87
42 Acenaphthene-d10	286589	143295	573178	286969	0.13
59 Phenanthrene-d10	498820	249410	997640	505363	1.31
69 Chrysene-d12	311295	155648	622590	344386	10.63
134 Di-n-octylphthala	577982	288991	1155964	654412	13.22
77 Perylene-d12	218550	109275	437100	267390	22.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.12	0.17
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.13
42 Acenaphthene-d10	15.22	14.72	15.72	15.23	0.10
59 Phenanthrene-d10	18.28	17.78	18.78	18.30	0.13
69 Chrysene-d12	23.35	22.85	23.85	23.39	0.17
134 Di-n-octylphthala	24.42	23.92	24.92	24.45	0.13
77 Perylene-d12	26.05	25.55	26.55	26.10	0.18

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

REVIEW SUMMARY FOR FILE - NT1022062311.D

Lab ID: SKF0270-SCV1
nt10.i, ABN.m, 23-JUN-2022 15:20

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022062313.D

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

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



**SECOND-SOURCE
CALIBRATION VERIFICATION**

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FF00062

Laboratory ID: SKF0270-SCV1

Sequence: SKF0270

Standard ID: J008837

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	5.0000	5.1	2.7	20.00
bis(2-chloroethyl) ether	5.0000	5.8	15.8	20.00
2-Chlorophenol	5.0000	5.2	4.0	20.00
1,3-Dichlorobenzene	5.0000	5.0	0.3	20.00
1,4-Dichlorobenzene	5.0000	5.3	5.9	20.00
1,2-Dichlorobenzene	5.0000	5.1	1.7	20.00
Benzyl Alcohol	5.0000	5.5	9.6	20.00
2,2'-Oxybis(1-chloropropane)	5.0000	7.1	41.3 *	20.00
2-Methylphenol	5.0000	4.4	-11.2	20.00
Hexachloroethane	5.0000	5.3	5.9	20.00
N-Nitroso-di-n-Propylamine	5.0000	5.1	2.3	20.00
4-Methylphenol	5.0000	4.6	-8.2	20.00
Nitrobenzene	5.0000	5.1	2.8	20.00
Isophorone	5.0000	7.4	48.2 *	20.00
2-Nitrophenol	5.0000	5.1	2.6	20.00
2,4-Dimethylphenol	5.0000	4.7	-5.3	20.00
Bis(2-Chloroethoxy)methane	5.0000	5.7	14.7	20.00
2,4-Dichlorophenol	5.0000	5.5	10.9	20.00
1,2,4-Trichlorobenzene	5.0000	4.9	-2.2	20.00
Naphthalene	5.0000	4.9	-1.1	20.00
Benzoic acid	10.0000	6.6	-33.8 *	20.00
4-Chloroaniline	5.0000	4.6	-7.1	20.00
Hexachlorobutadiene	5.0000	5.3	6.8	20.00
4-Chloro-3-Methylphenol	5.0000	4.9	-2.9	20.00
2-Methylnaphthalene	5.0000	5.2	4.3	20.00
Hexachlorocyclopentadiene	5.0000	3.3	-33.5 *	20.00
2,4,6-Trichlorophenol	5.0000	5.2	4.8	20.00
2,4,5-Trichlorophenol	5.0000	4.4	-11.5	20.00
2-Chloronaphthalene	5.0000	5.5	9.2	20.00
2-Nitroaniline	5.0000	5.3	6.8	20.00
Acenaphthylene	5.0000	4.5	-10.5	20.00
Dimethylphthalate	5.0000	5.0	-0.5	20.00



**SECOND-SOURCE
CALIBRATION VERIFICATION**

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FF00062

Laboratory ID: SKF0270-SCV1

Sequence: SKF0270

Standard ID: J008837

2,6-Dinitrotoluene	5.0000	5.3	5.1	20.00
Acenaphthene	5.0000	4.9	-1.2	20.00
3-Nitroaniline	5.0000	5.4	7.6	20.00
2,4-Dinitrophenol	5.0000	2.0	-59.5 *	20.00
Dibenzofuran	5.0000	5.3	6.8	20.00
4-Nitrophenol	5.0000	4.4	-11.3	20.00
2,4-Dinitrotoluene	5.0000	5.3	6.2	20.00
Fluorene	5.0000	4.6	-8.1	20.00
4-Chlorophenylphenyl ether	5.0000	5.4	8.1	20.00
Diethyl phthalate	5.0000	5.4	7.4	20.00
4-Nitroaniline	5.0000	5.1	1.9	20.00
4,6-Dinitro-2-methylphenol	5.0000	4.3	-13.7	20.00
N-Nitrosodiphenylamine	5.0000	5.0	-0.3	20.00
4-Bromophenyl phenyl ether	5.0000	5.5	9.1	20.00
Hexachlorobenzene	5.0000	5.1	2.3	20.00
Pentachlorophenol	5.0000	3.2	-35.2 *	20.00
Phenanthrene	5.0000	4.9	-2.1	20.00
Anthracene	5.0000	4.8	-3.4	20.00
Carbazole	5.0000	5.6	11.3	20.00
Di-n-Butylphthalate	5.0000	5.3	6.6	20.00
Fluoranthene	5.0000	4.2	-16.2	20.00
Pyrene	5.0000	4.6	-8.6	20.00
Butylbenzylphthalate	5.0000	4.9	-2.8	20.00
Benzo(a)anthracene	5.0000	4.9	-3.0	20.00
3,3'-Dichlorobenzidine	10.000	11.8	17.7	20.00
Chrysene	5.0000	4.7	-5.5	20.00
bis(2-Ethylhexyl)phthalate	5.0000	5.1	1.2	20.00
Di-n-Octylphthalate	5.0000	5.5	10.0	20.00
Benzo(a)fluoranthene, Total	10.000	9.8	-1.7	20.00
Benzo(a)pyrene	5.0000	4.9	-2.0	20.00
Indeno(1,2,3-cd)pyrene	5.0000	4.8	-4.7	20.00
Dibenzo(a,h)anthracene	5.0000	4.7	-6.5	20.00
Benzo(g,h,i)perylene	5.0000	4.9	-1.8	20.00
1-Methylnaphthalene	5.0000	5.2	3.2	20.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220623.16\NT1022062311.D

Date : 23-JUN-2022 15:20

Client ID:

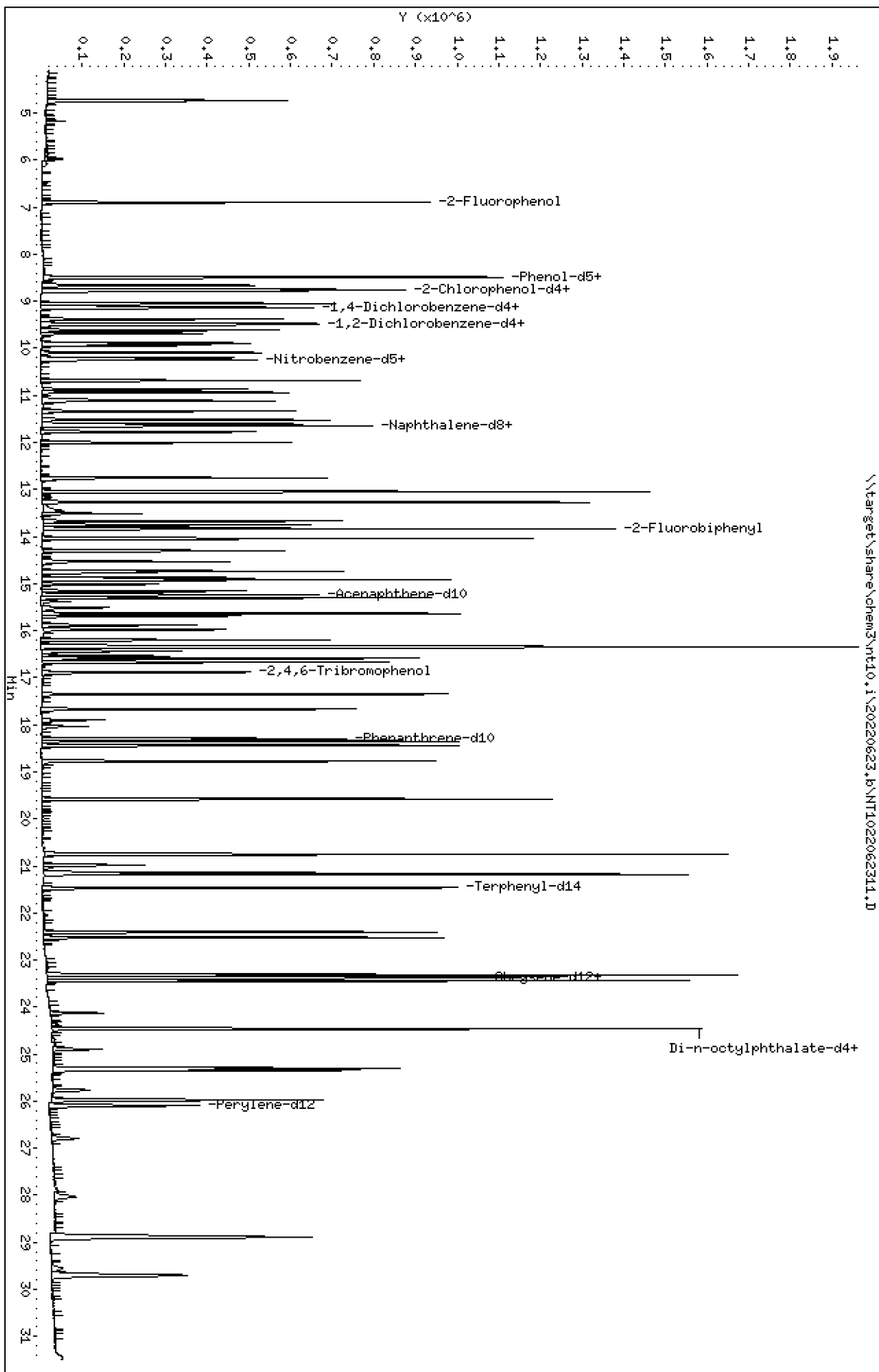
Sample Info: SKF0270-SCW1

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

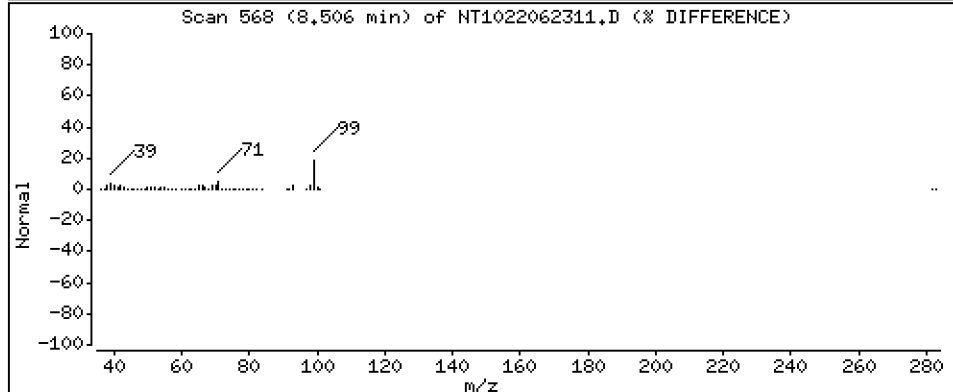
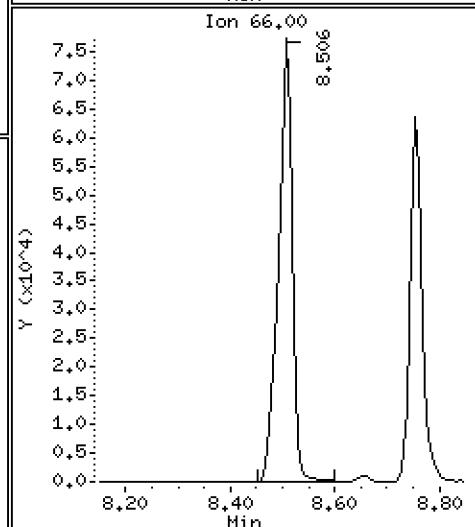
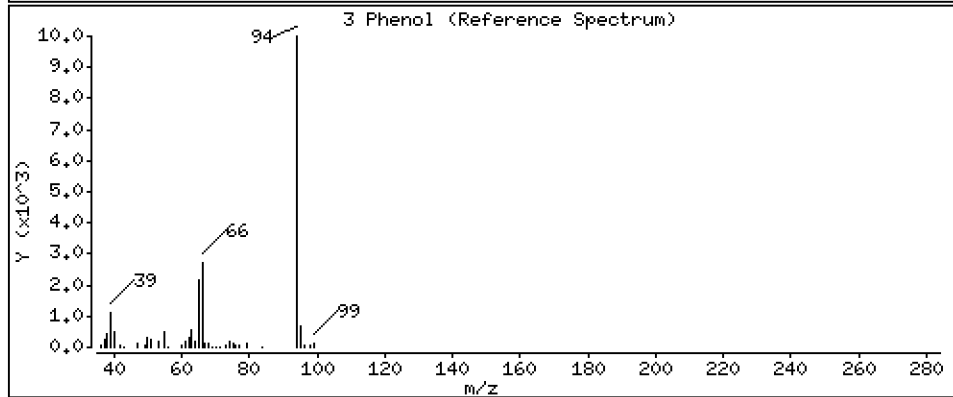
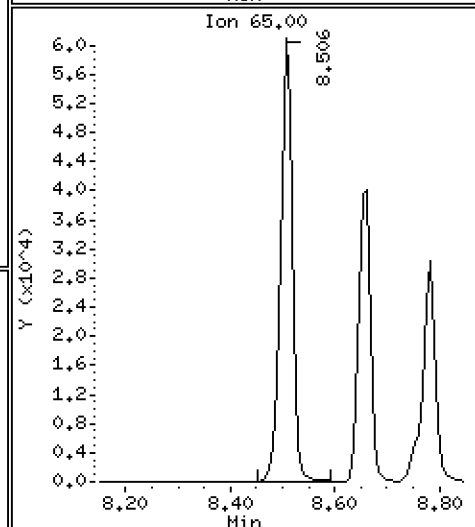
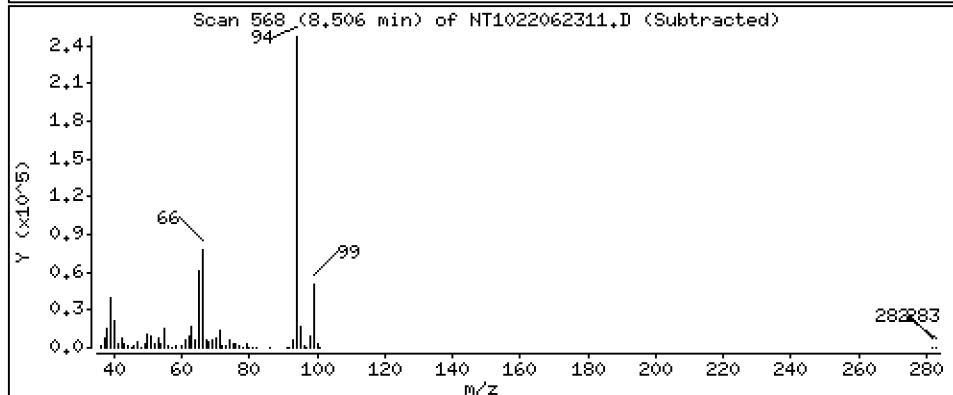
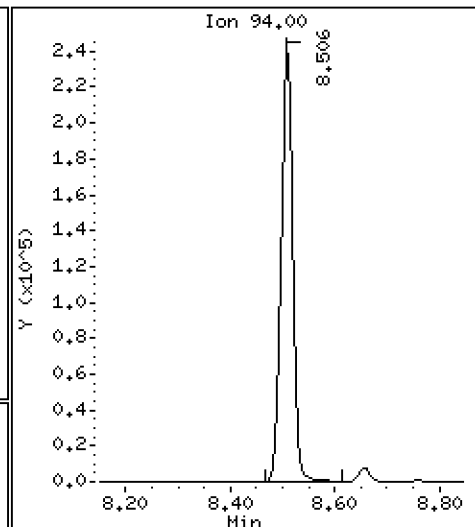
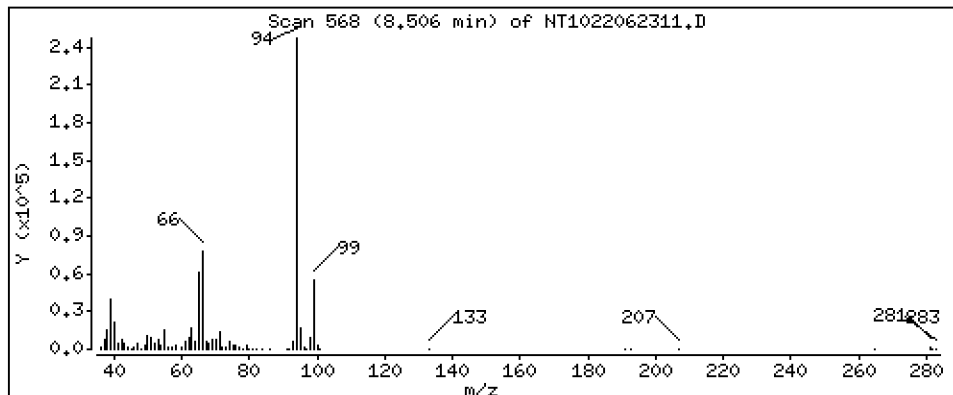
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 5,135 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

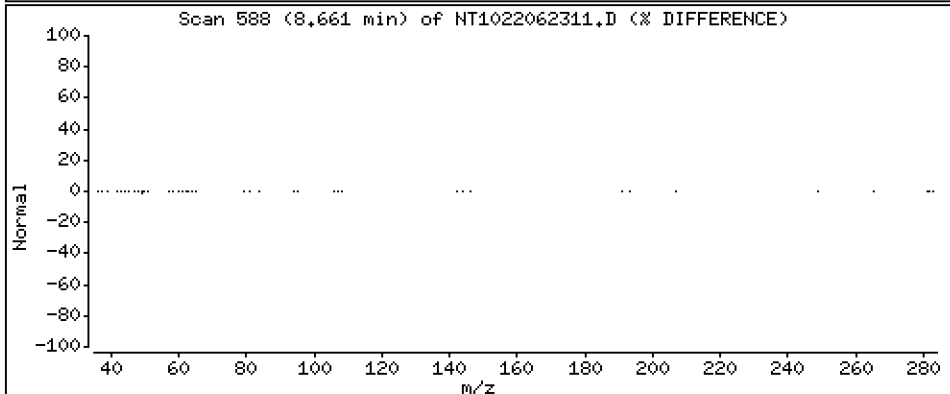
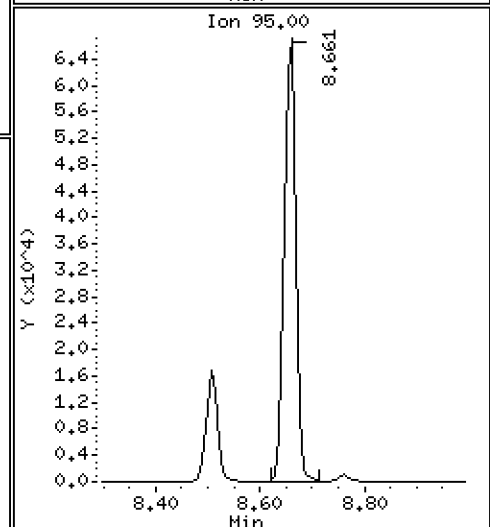
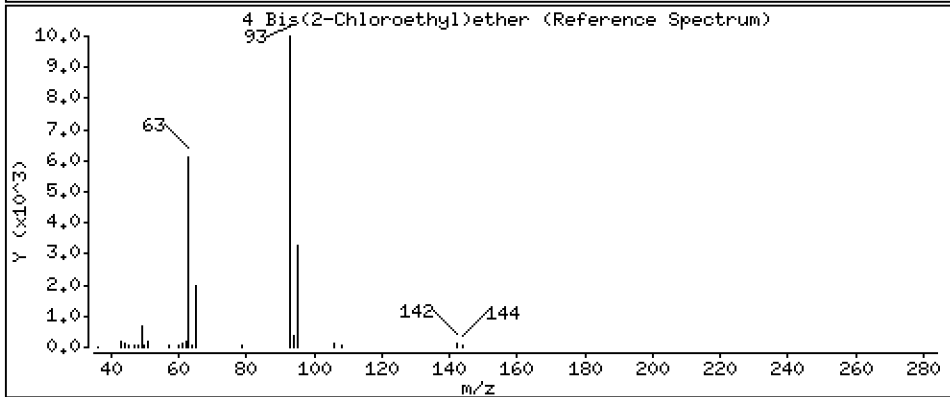
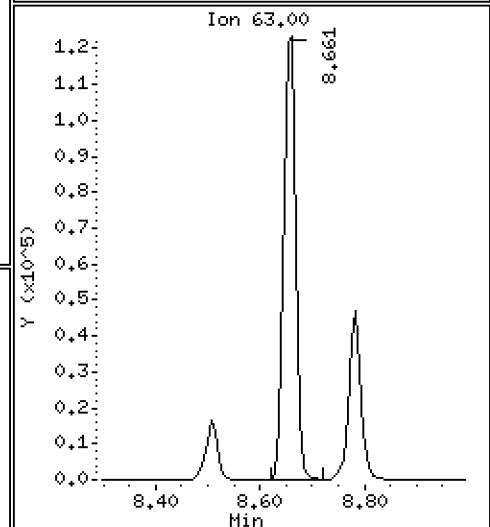
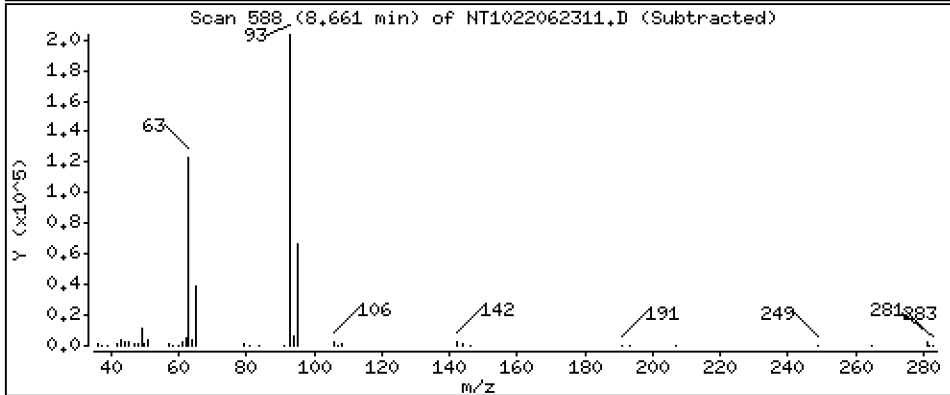
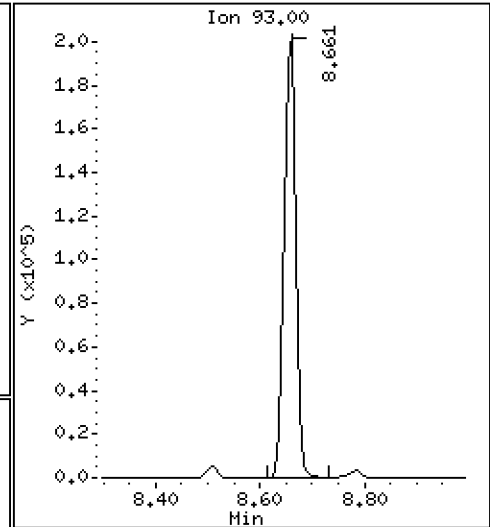
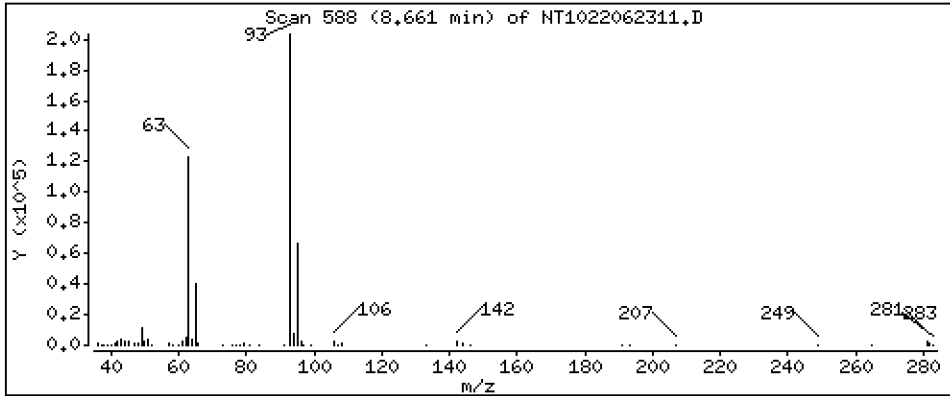
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,792 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

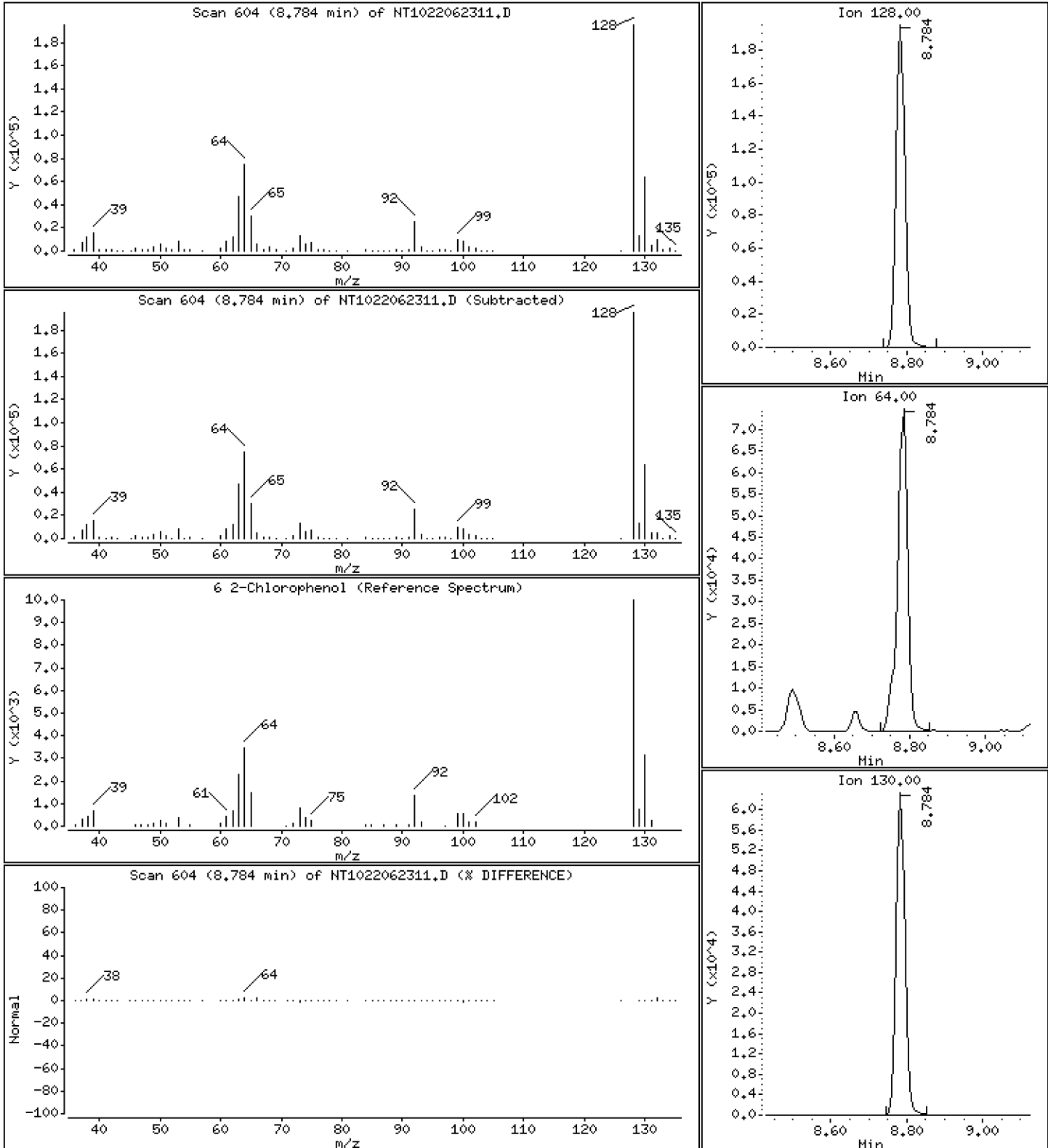
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 5,199 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

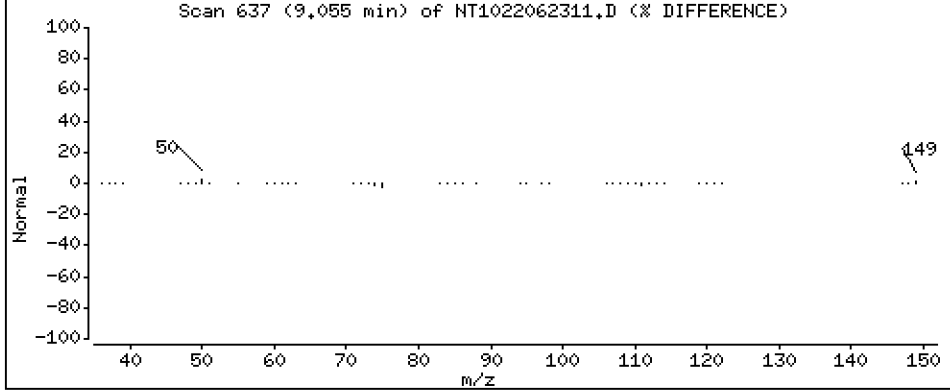
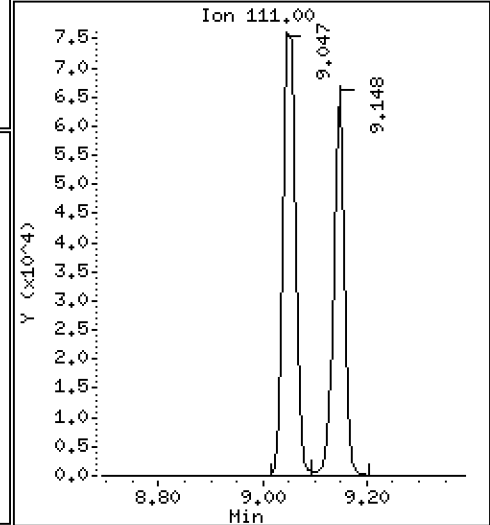
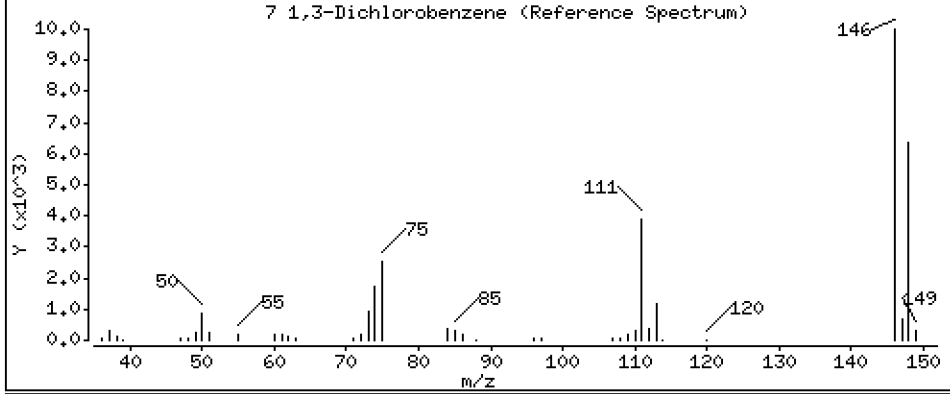
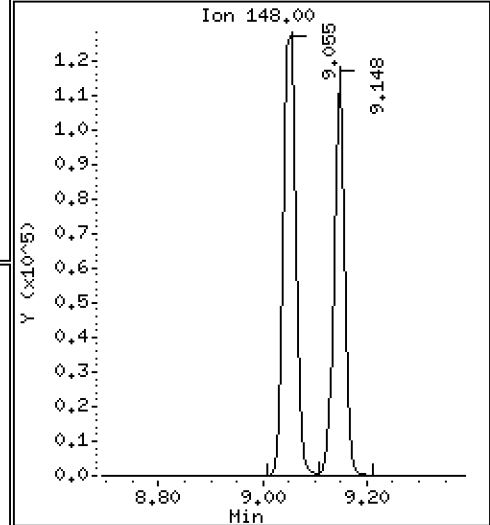
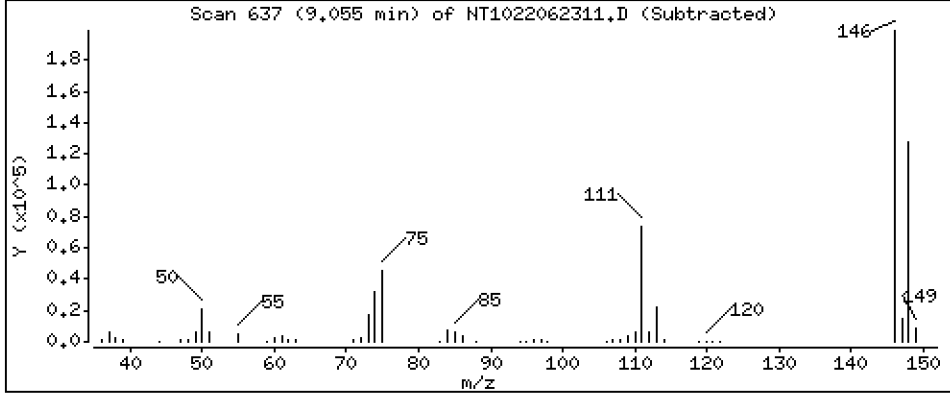
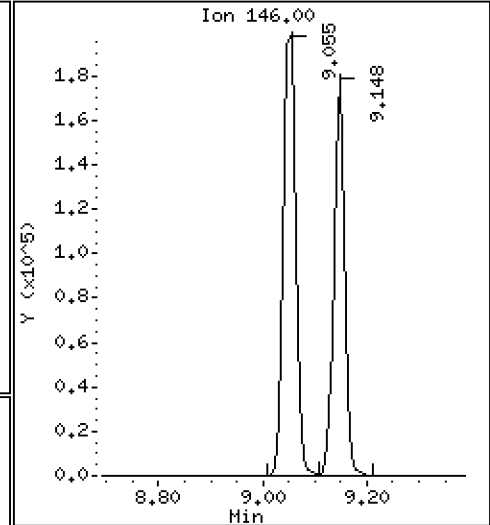
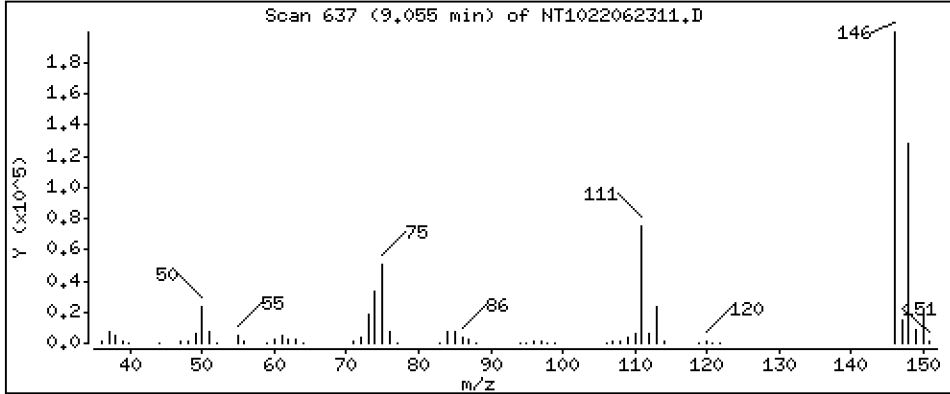
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 5,014 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

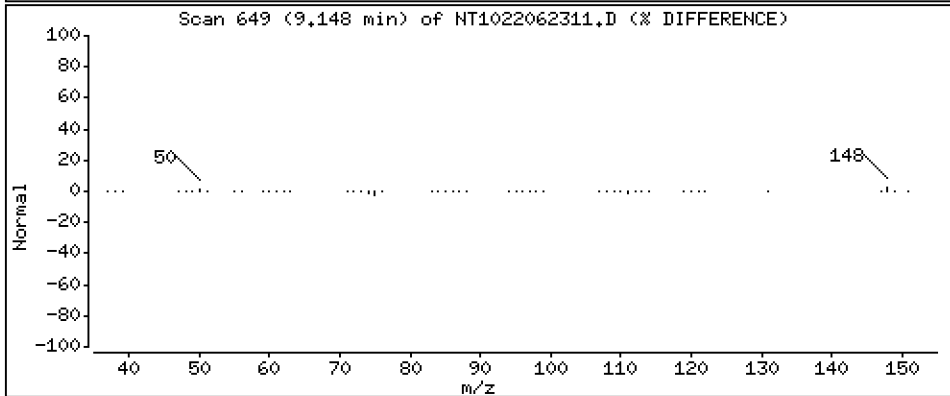
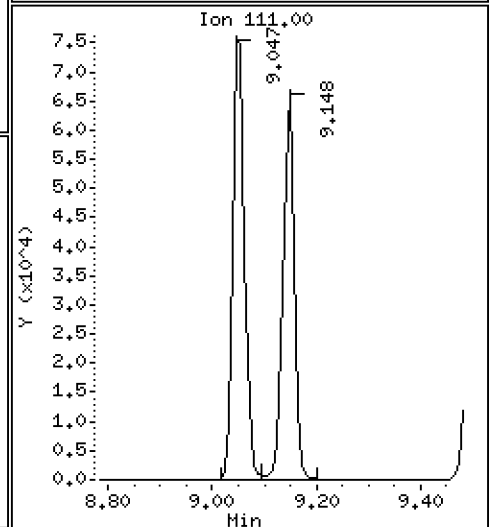
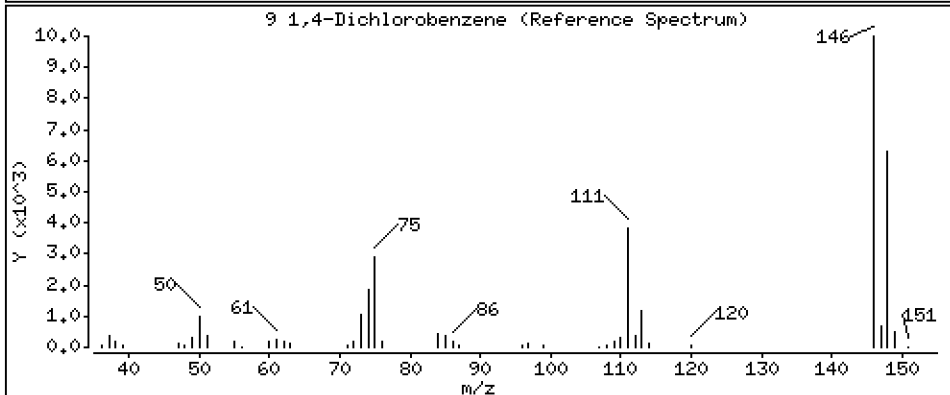
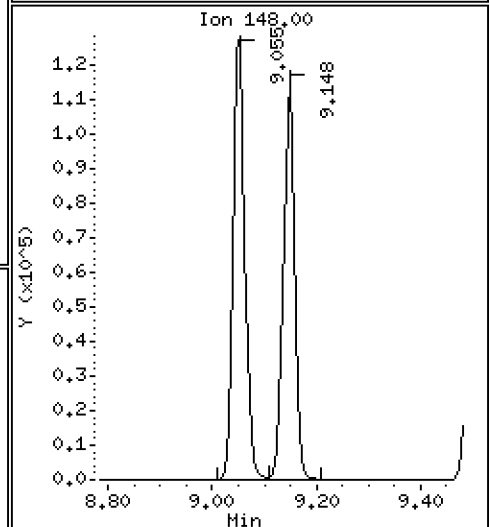
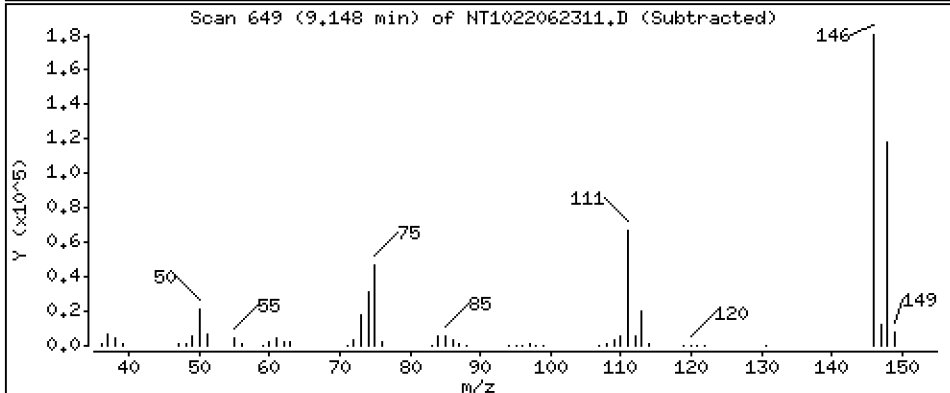
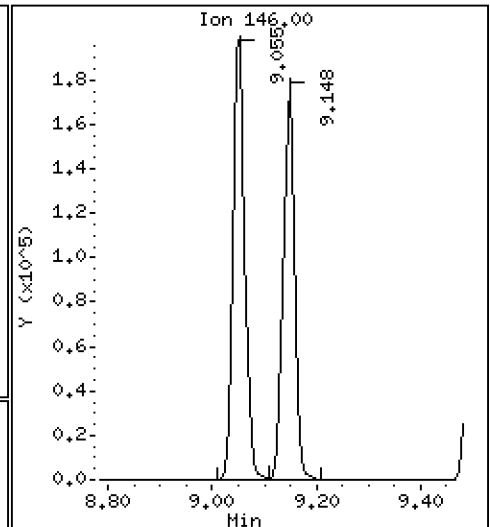
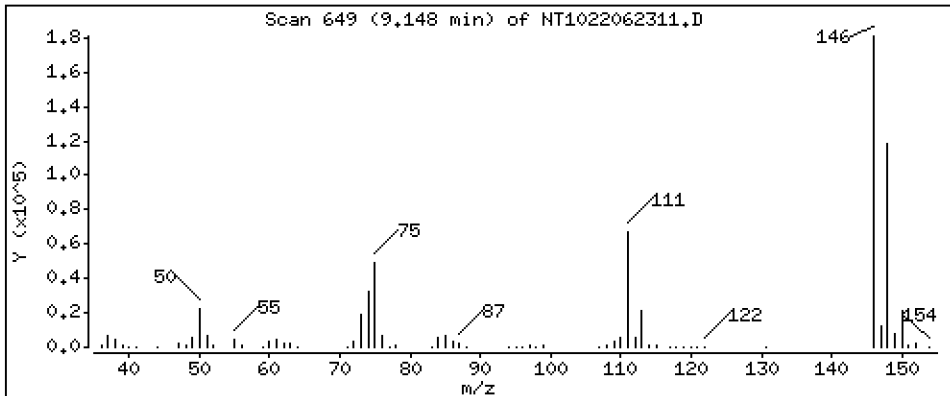
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 5,297 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

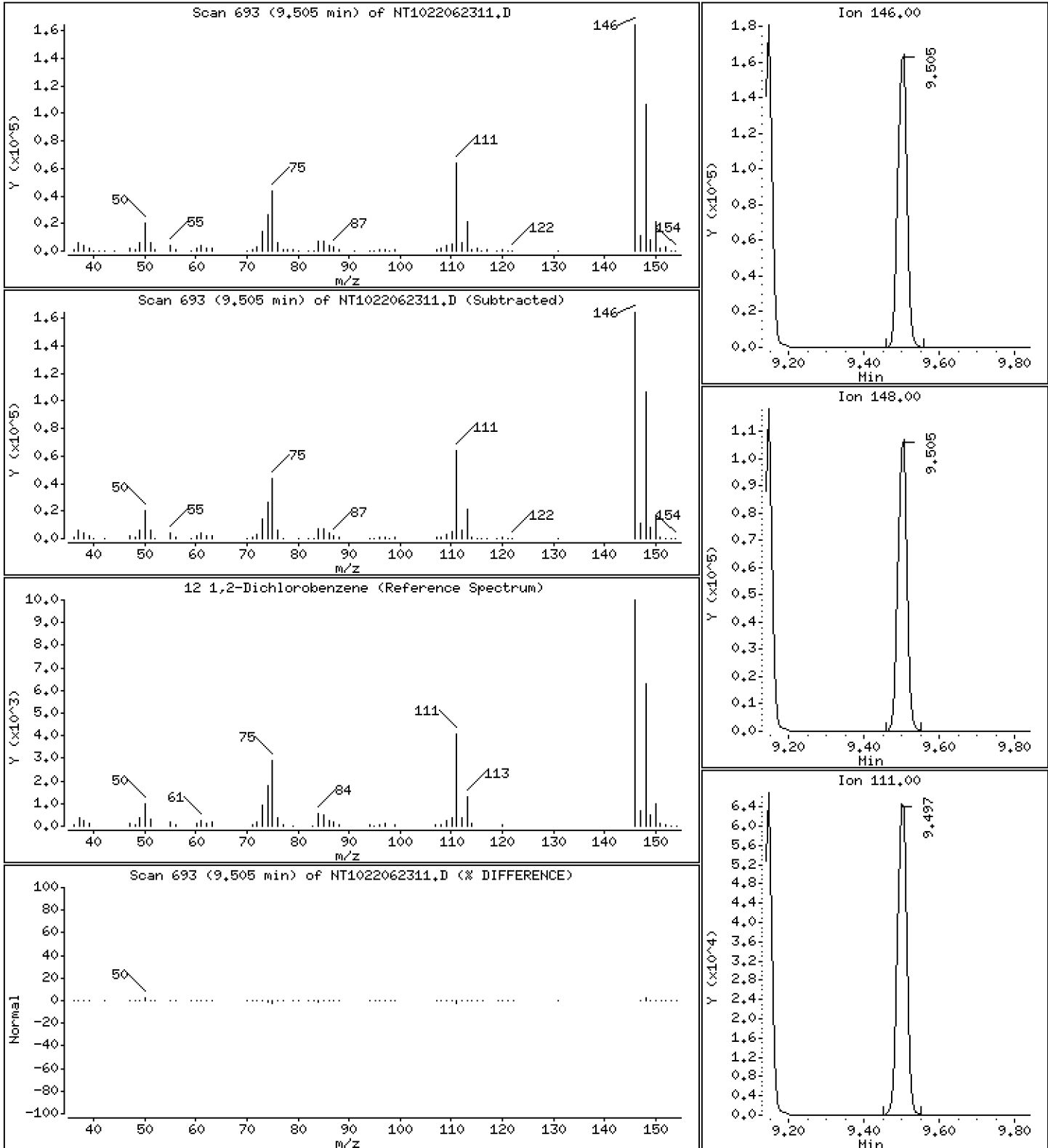
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 5,087 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

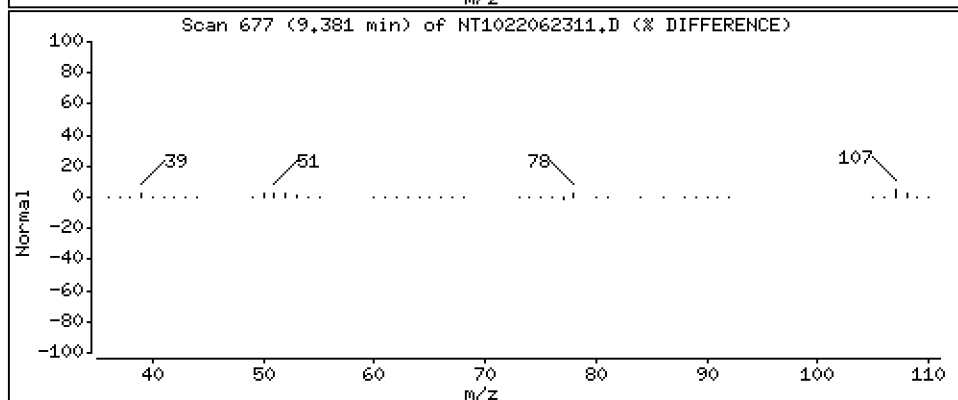
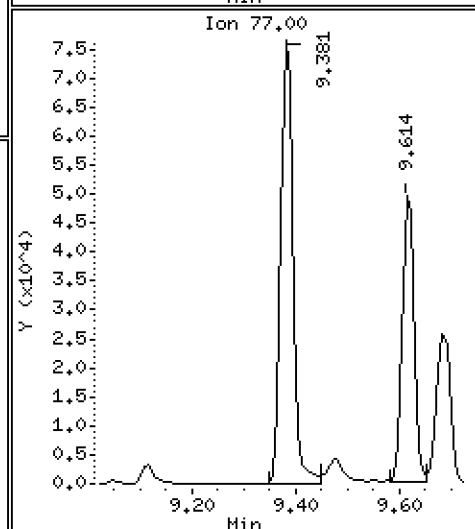
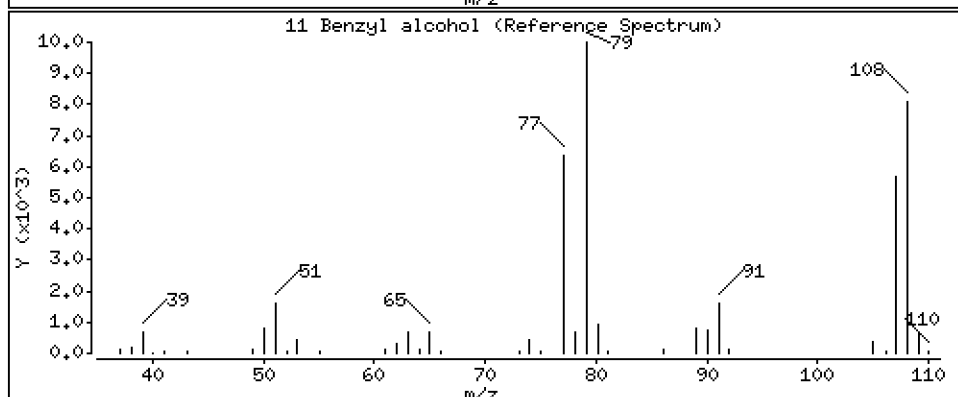
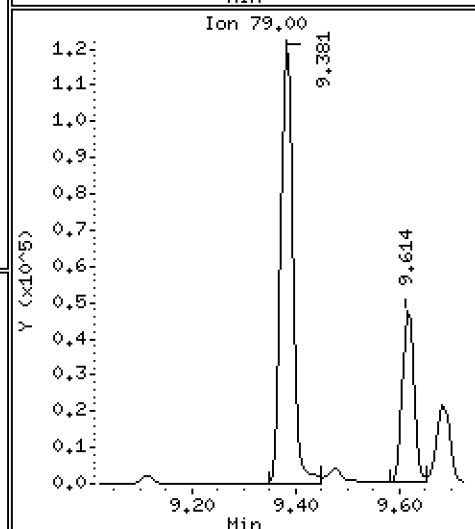
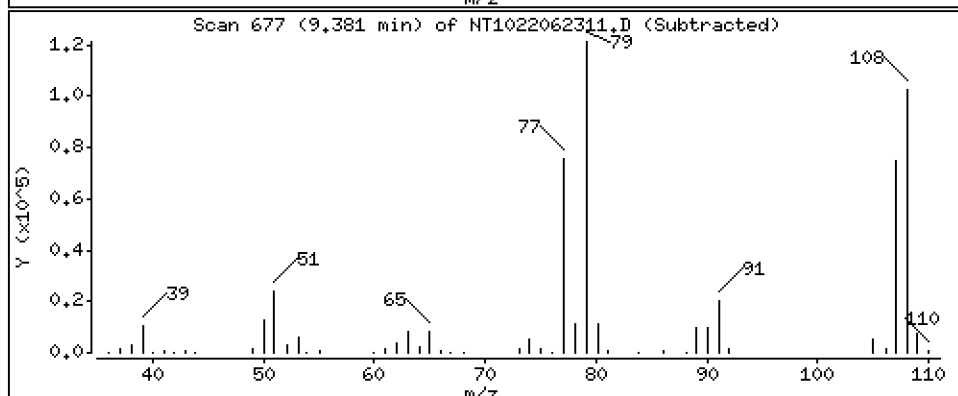
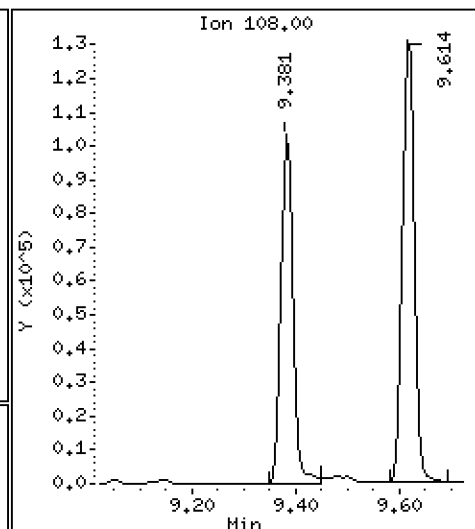
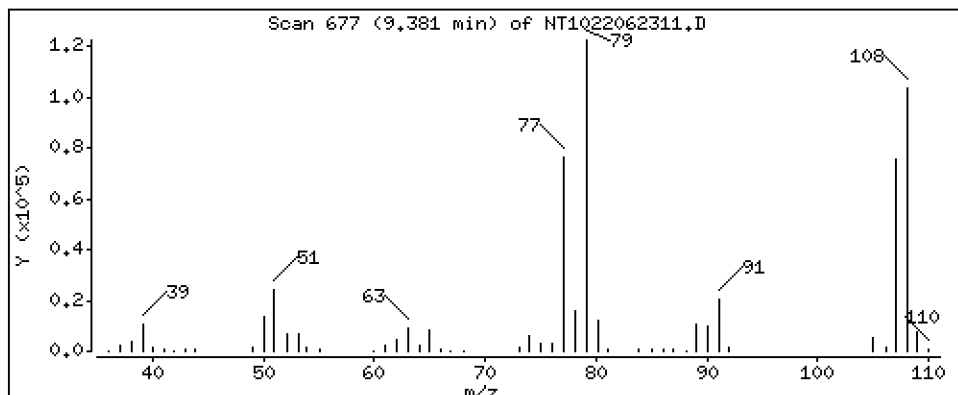
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 5.481 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

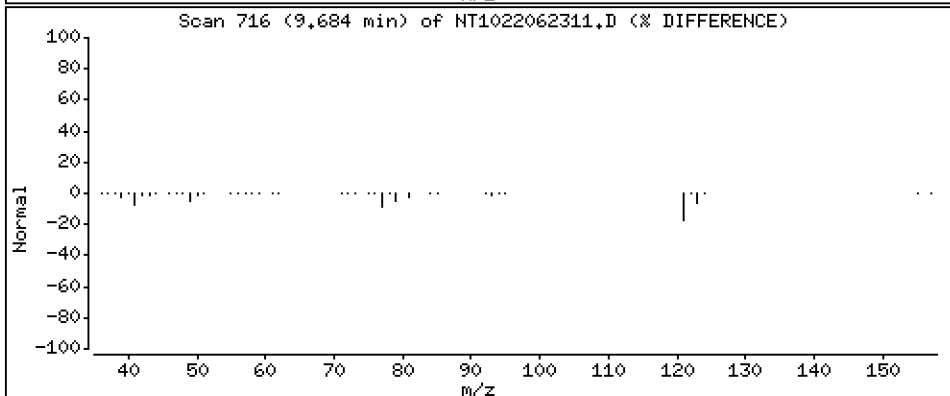
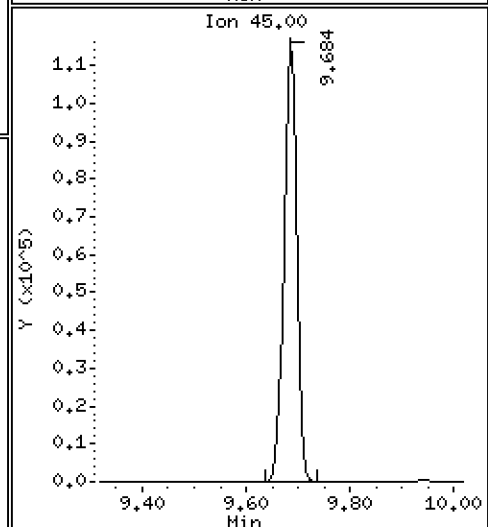
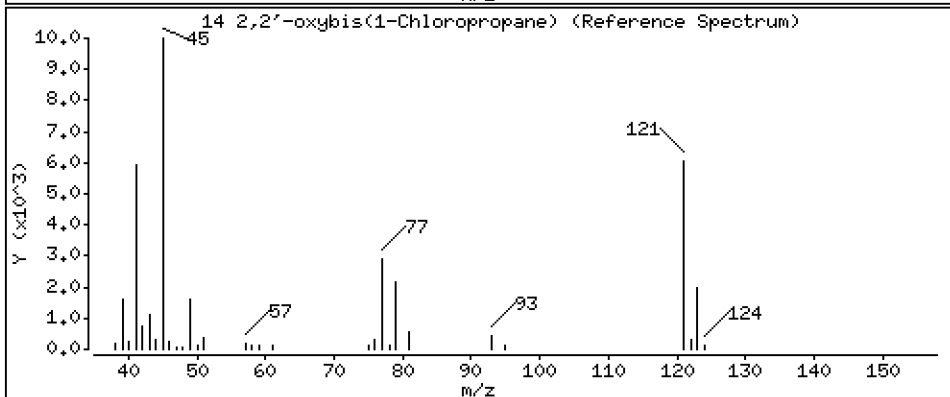
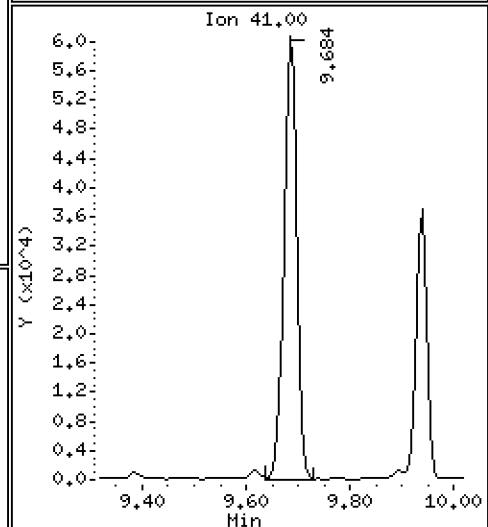
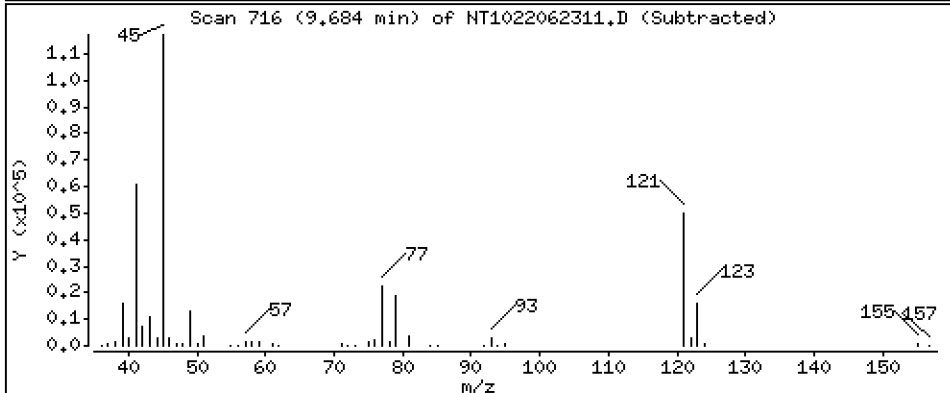
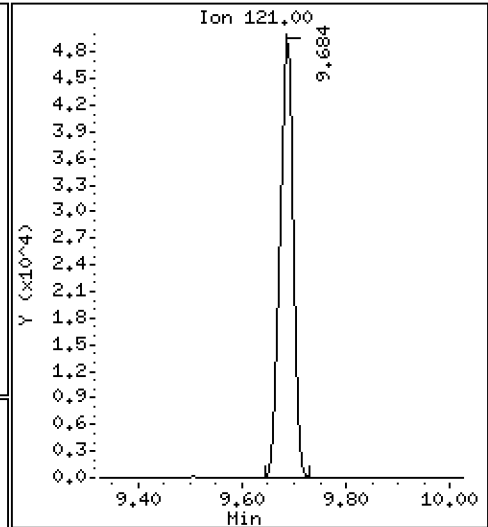
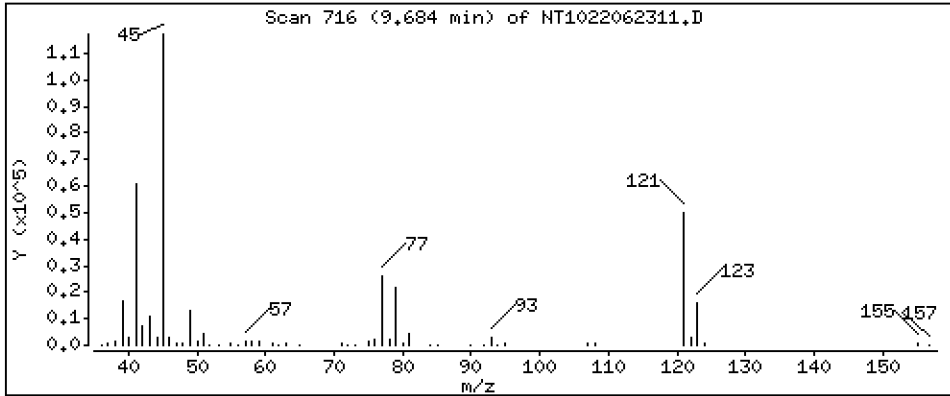
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 7,063 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

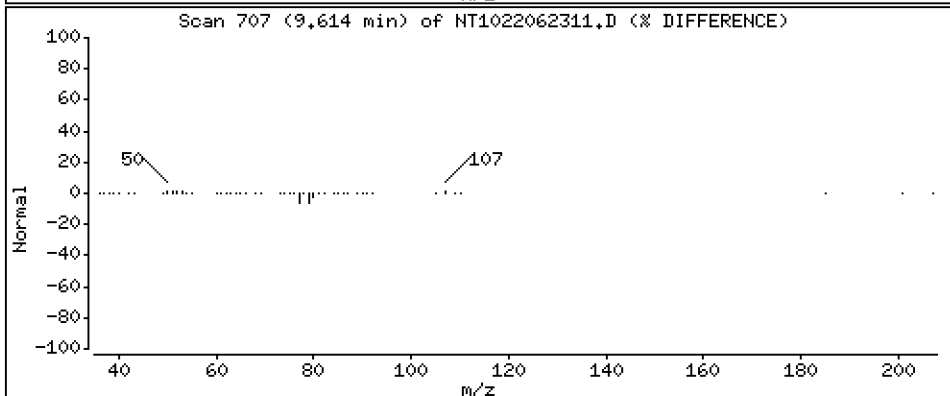
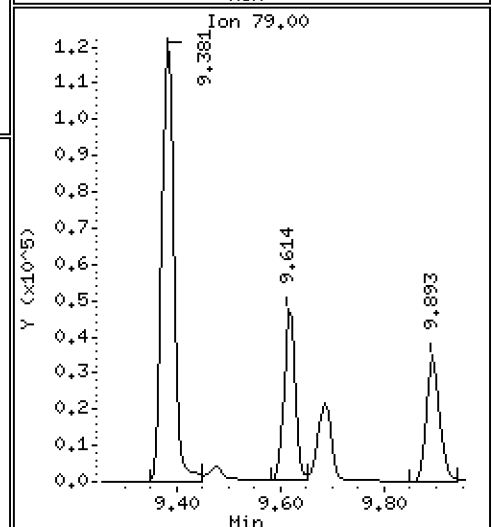
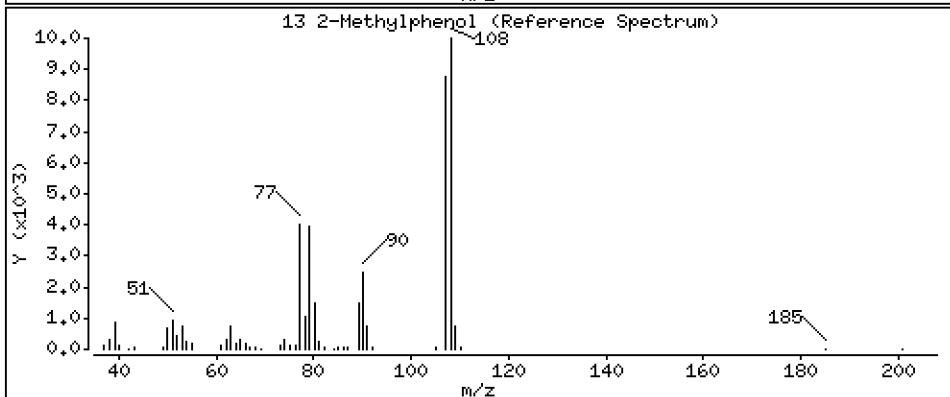
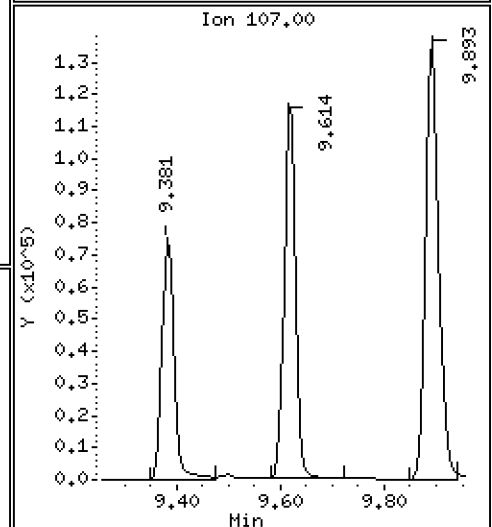
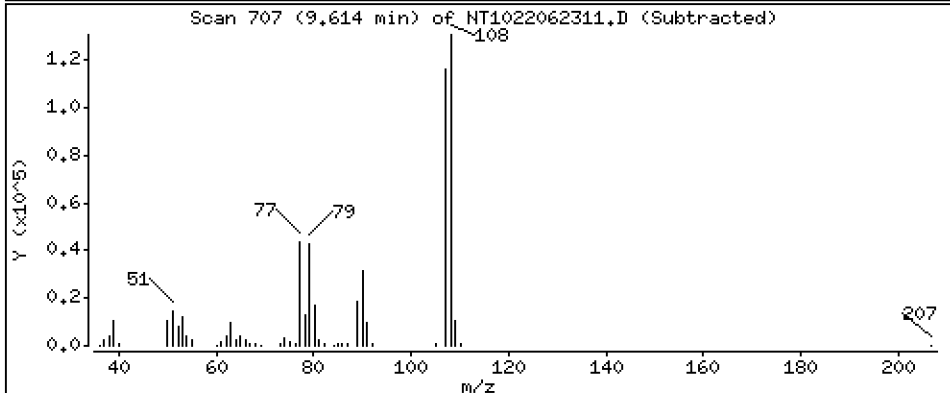
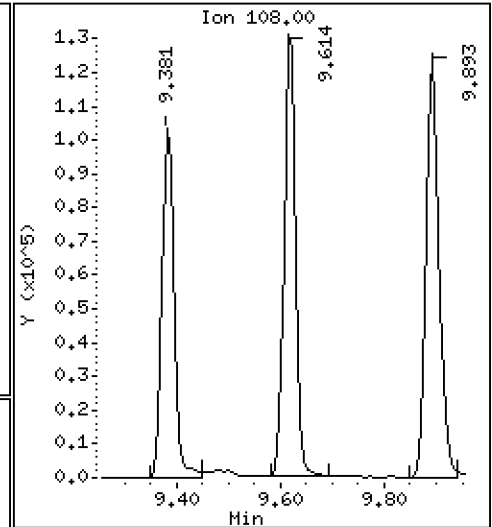
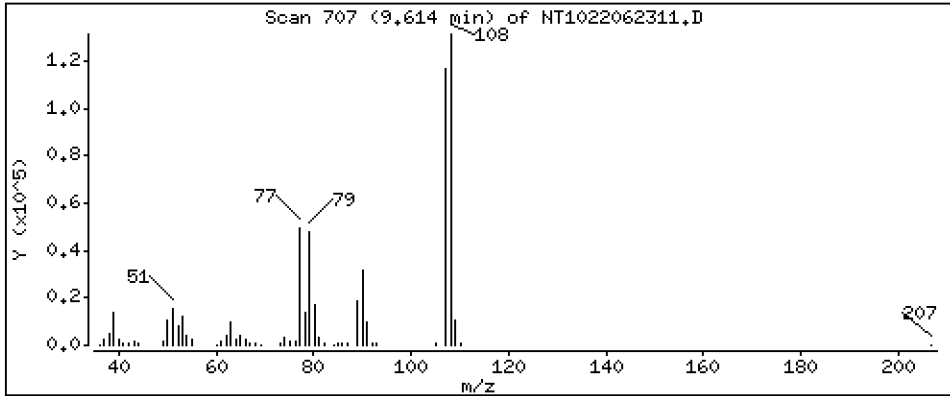
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.442 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

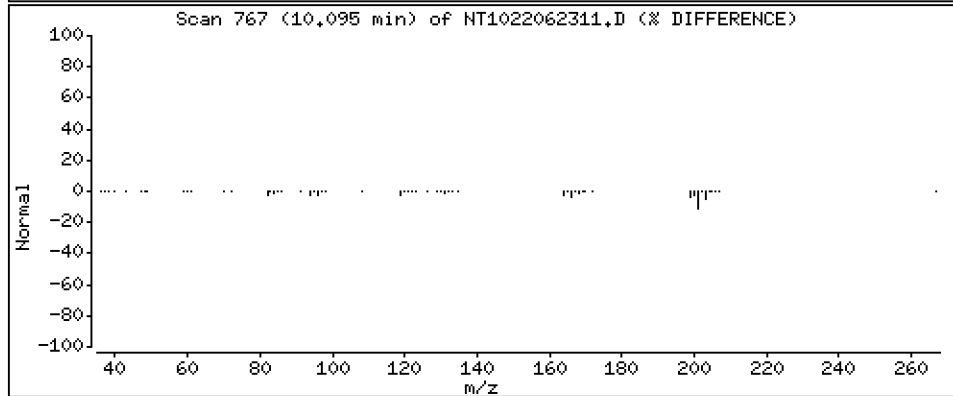
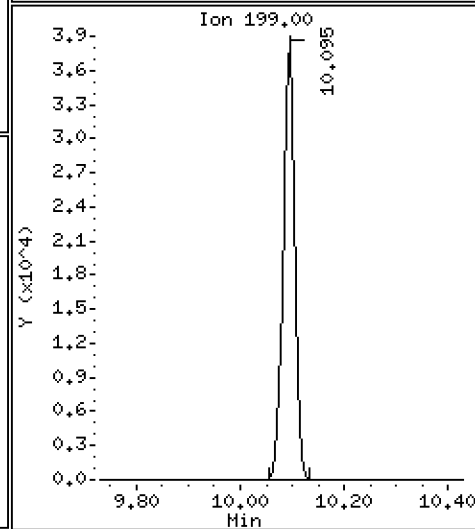
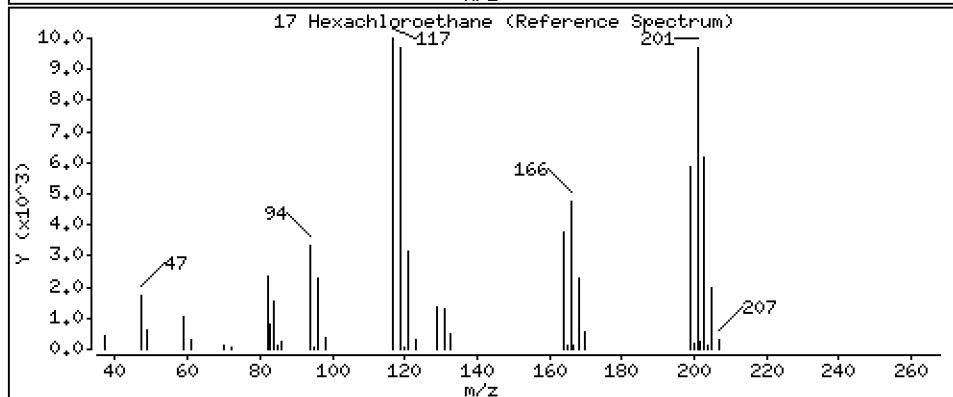
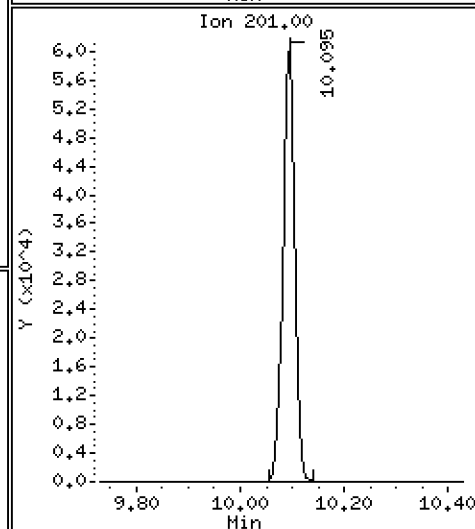
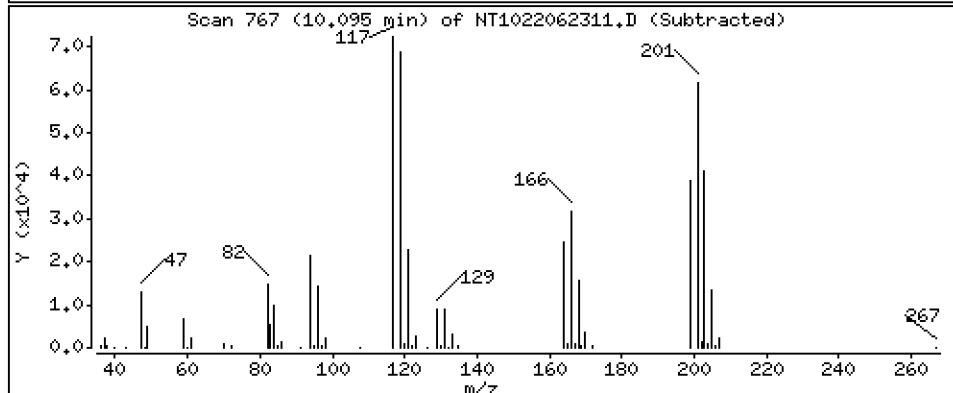
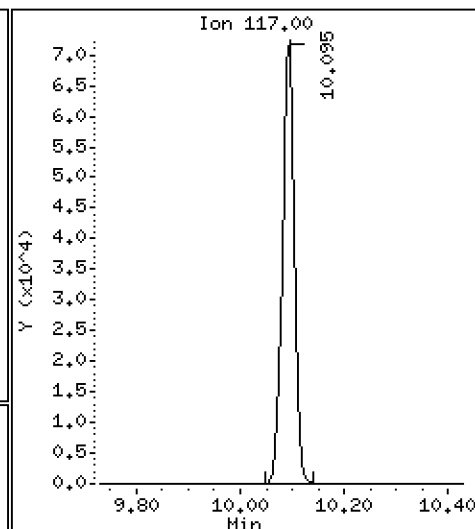
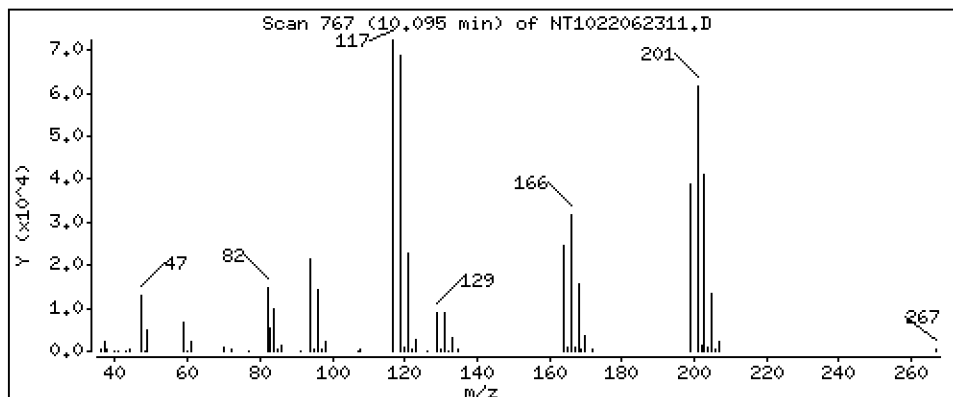
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,296 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

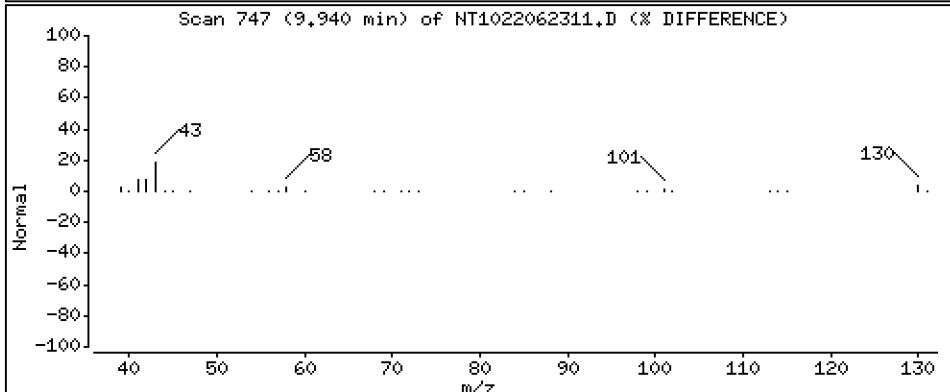
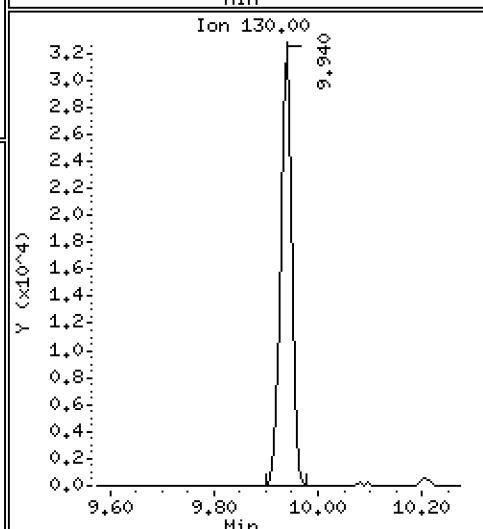
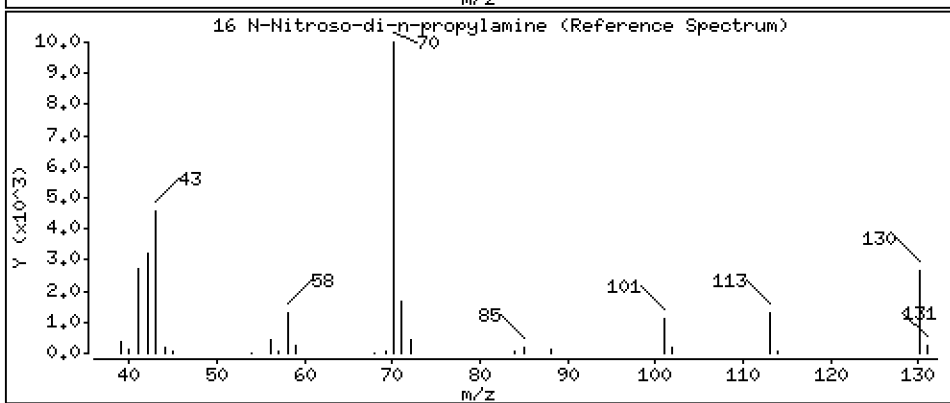
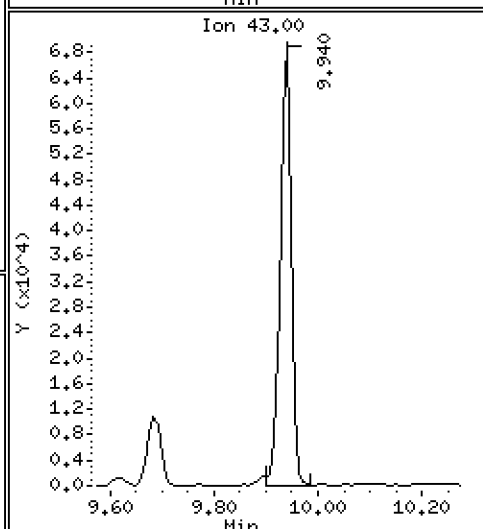
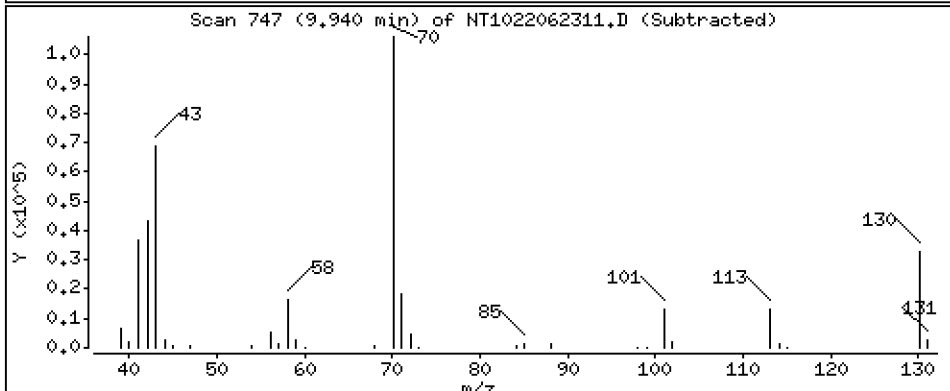
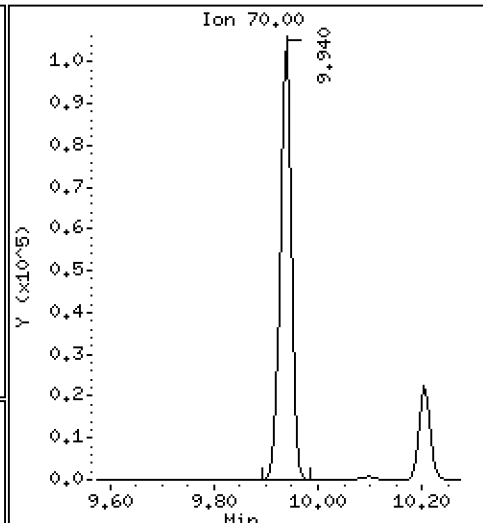
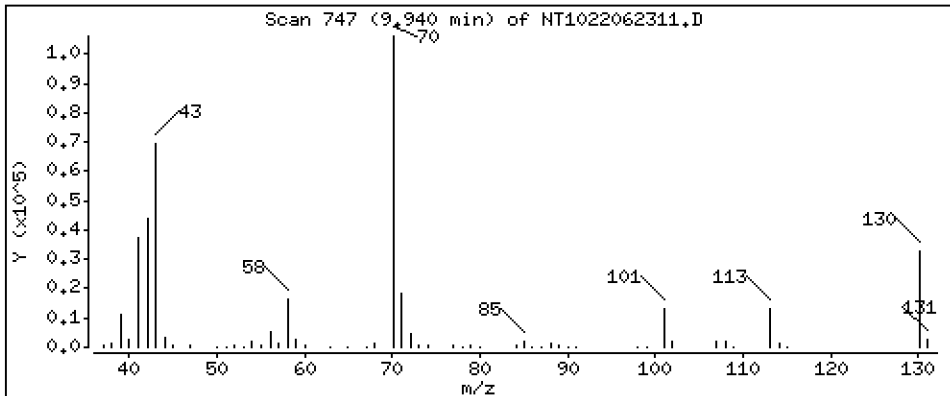
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,116 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

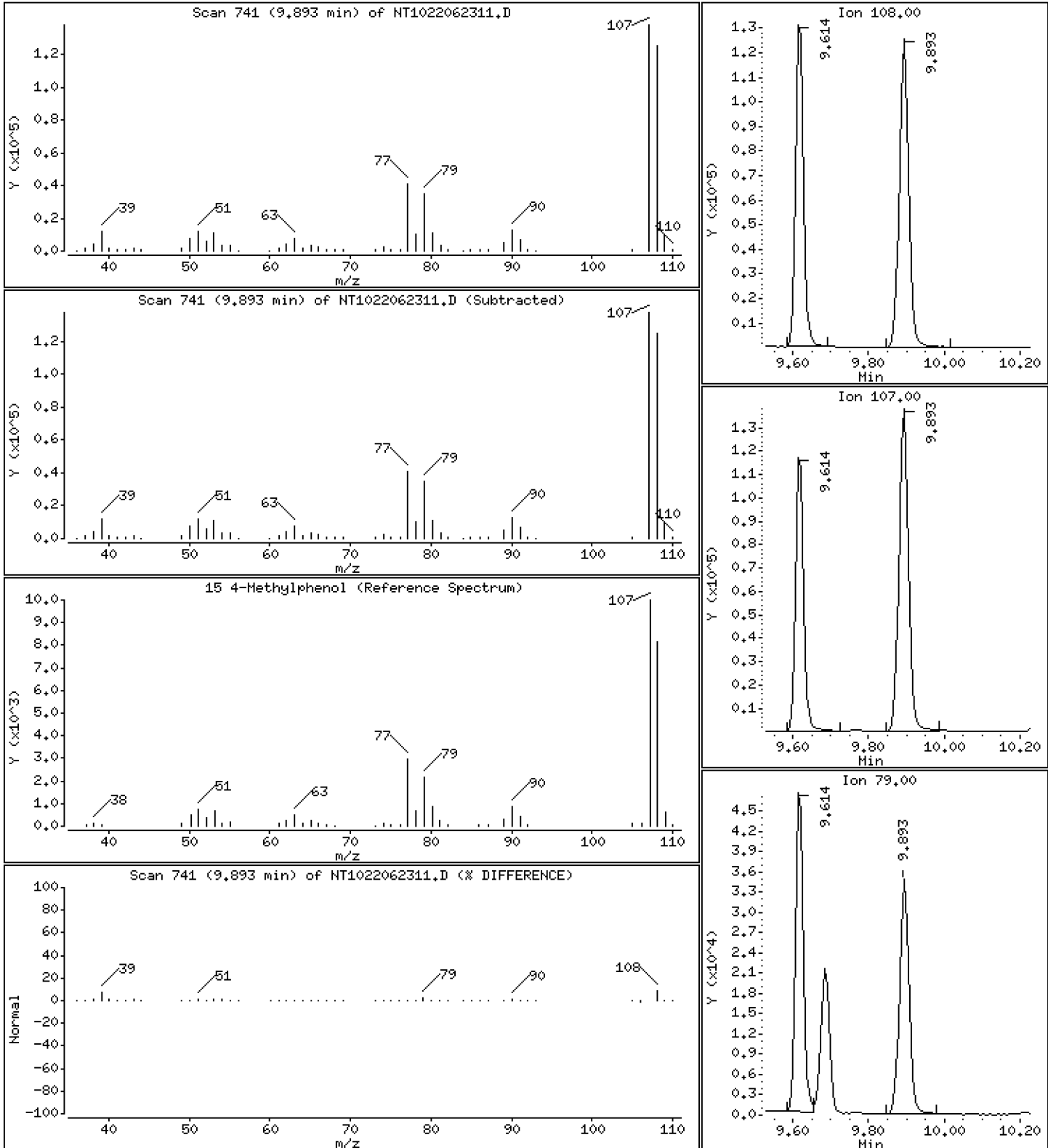
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,592 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

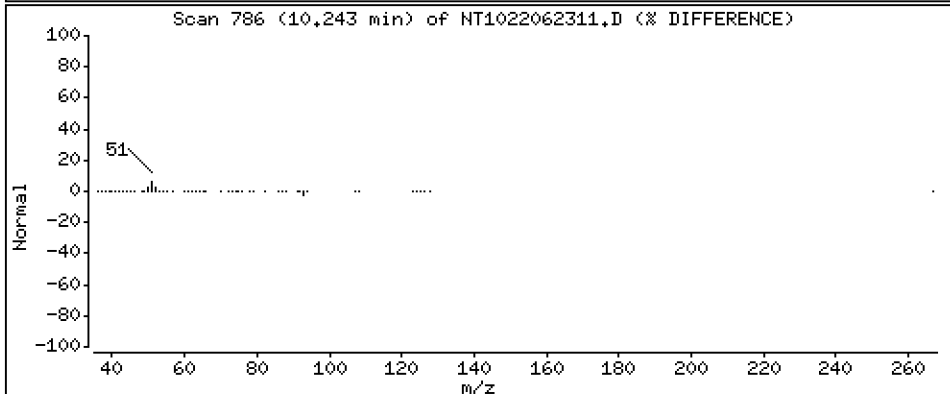
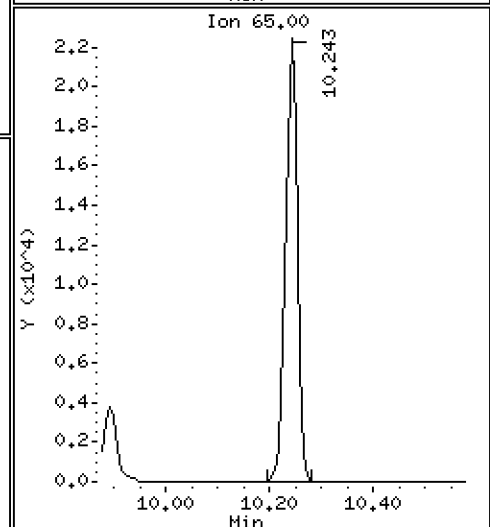
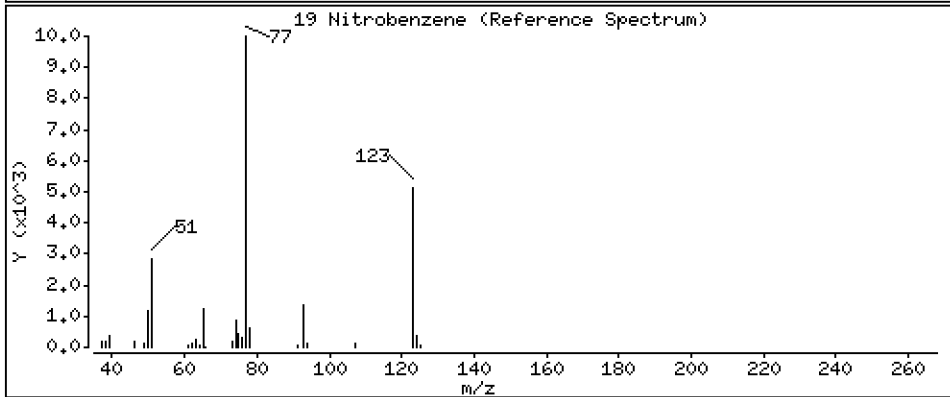
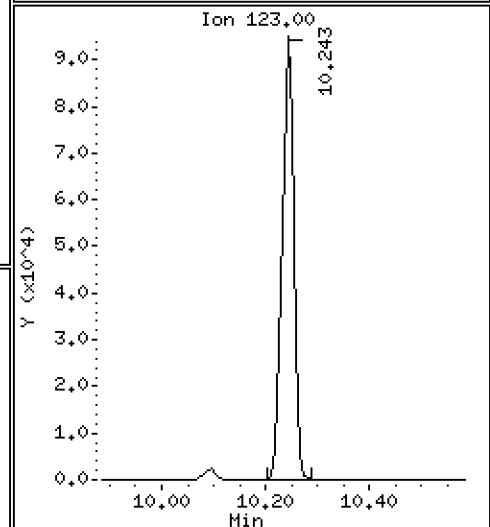
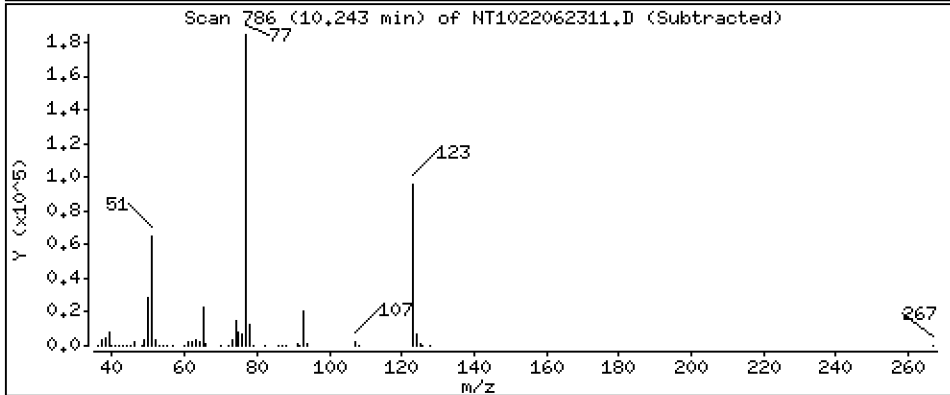
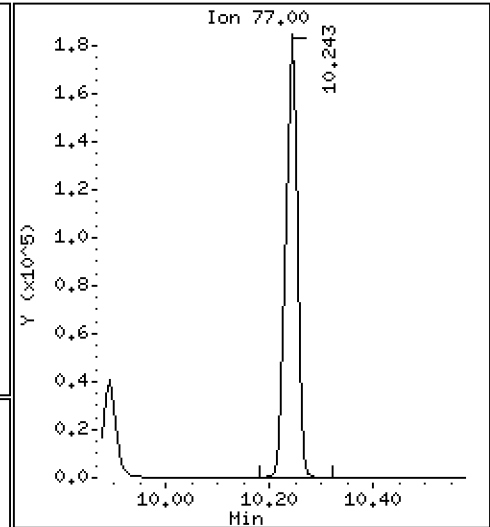
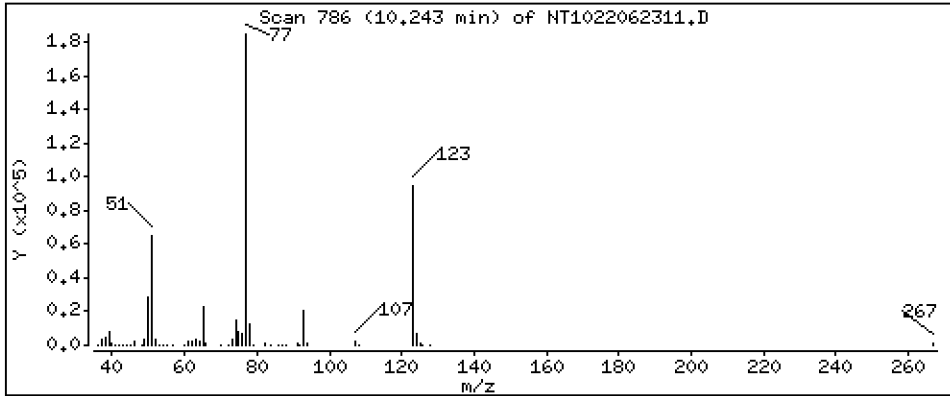
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 5,138 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

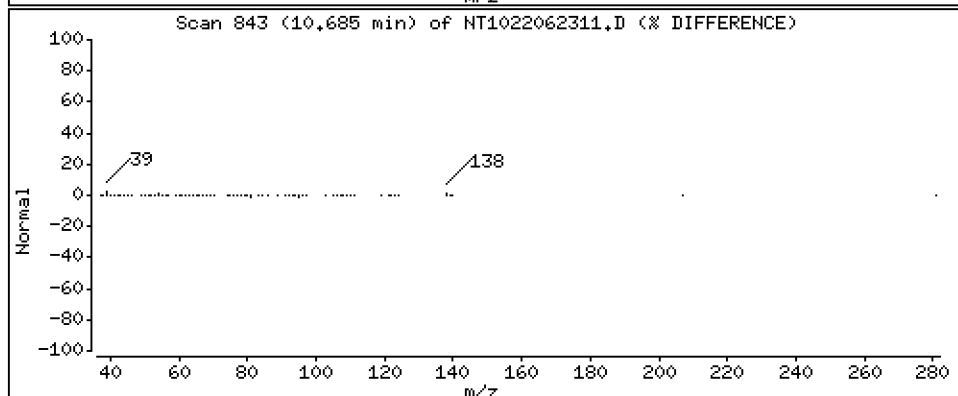
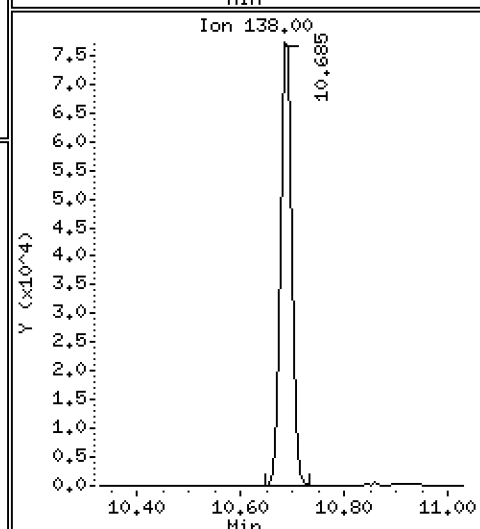
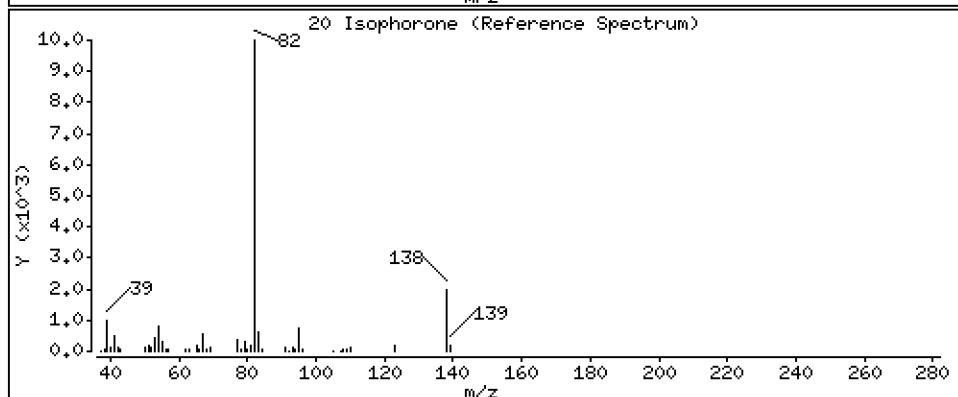
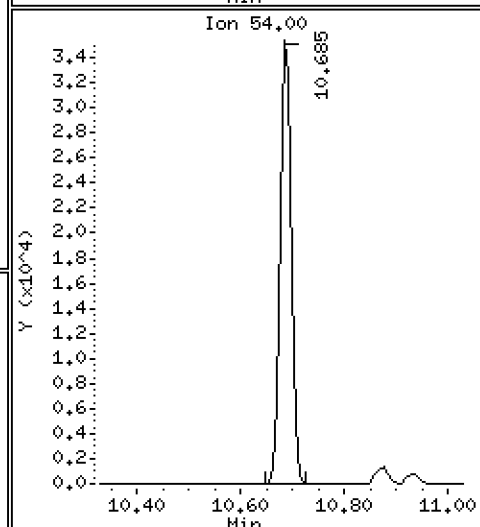
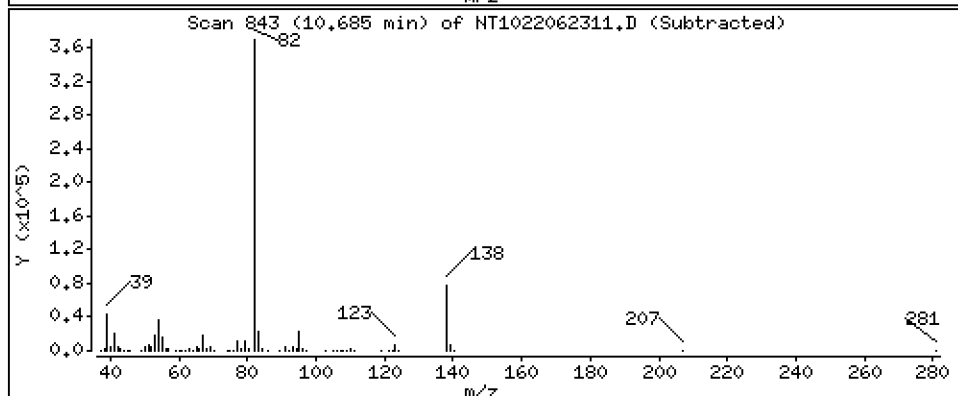
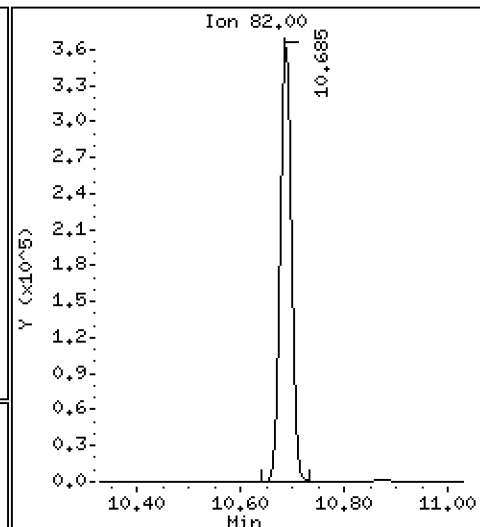
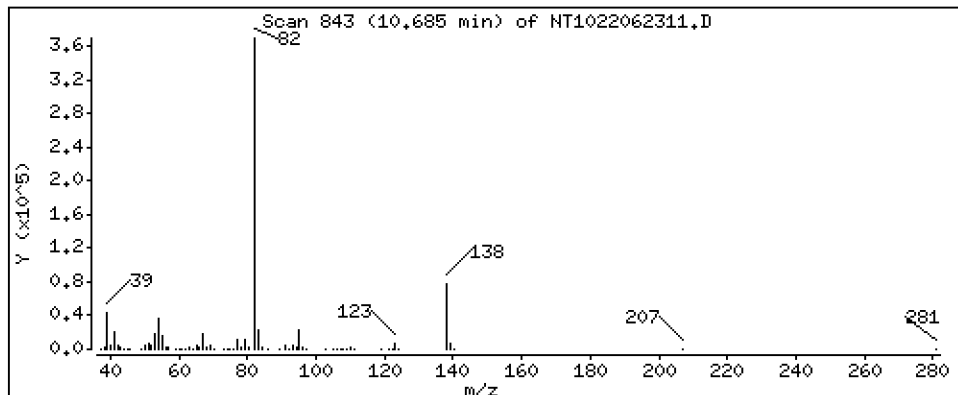
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 7,412 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

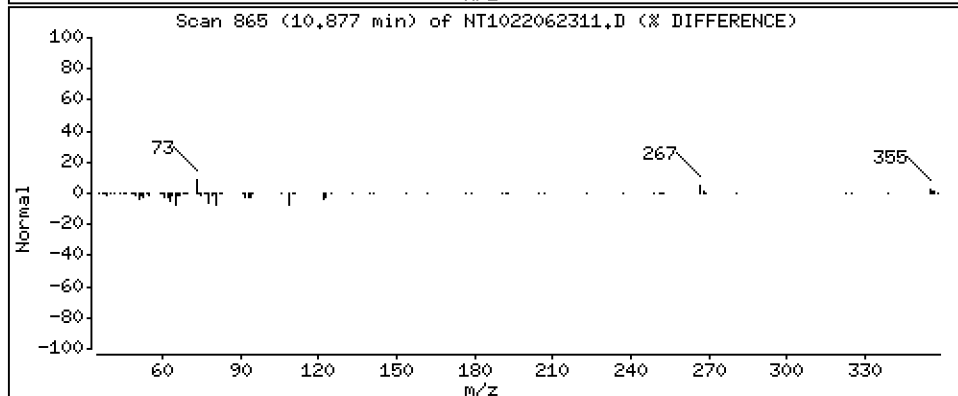
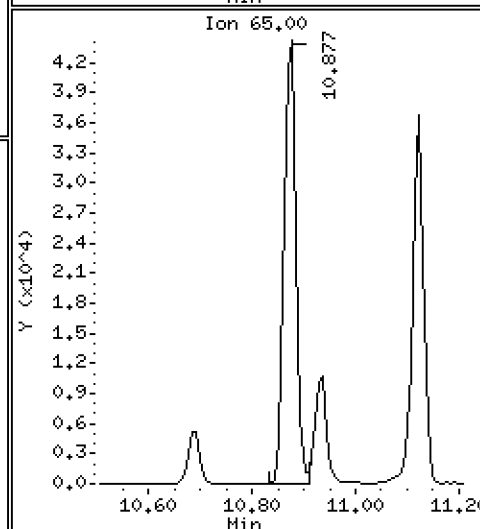
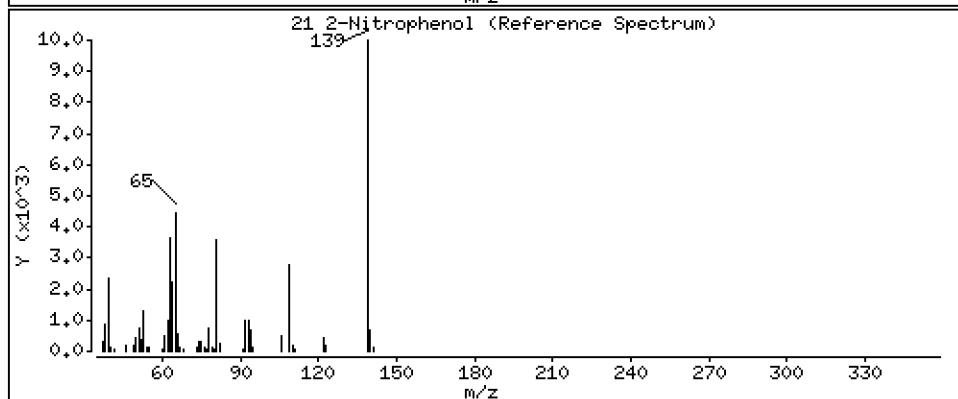
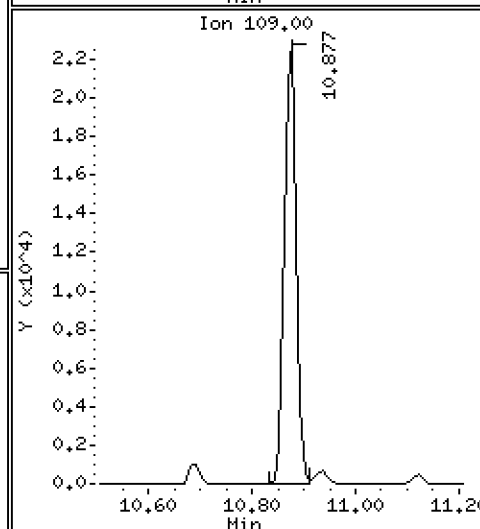
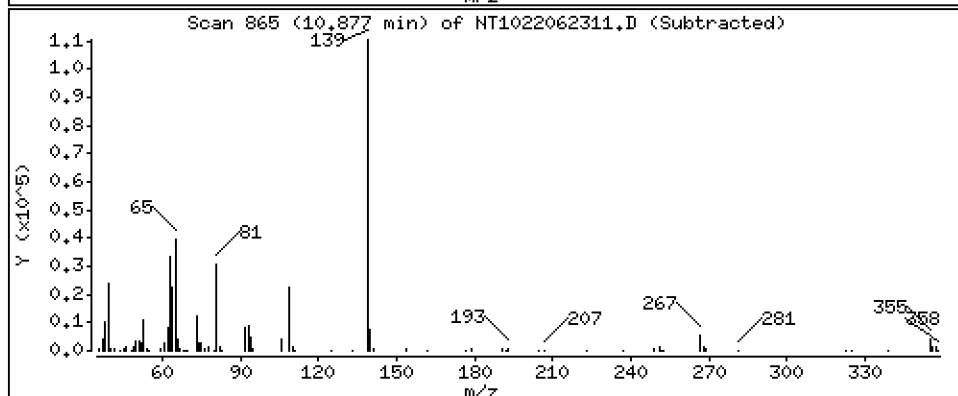
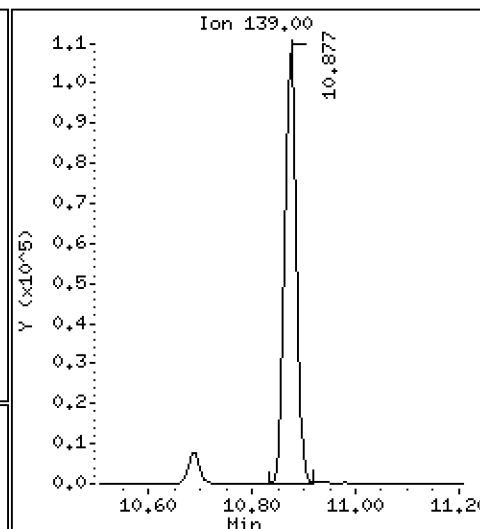
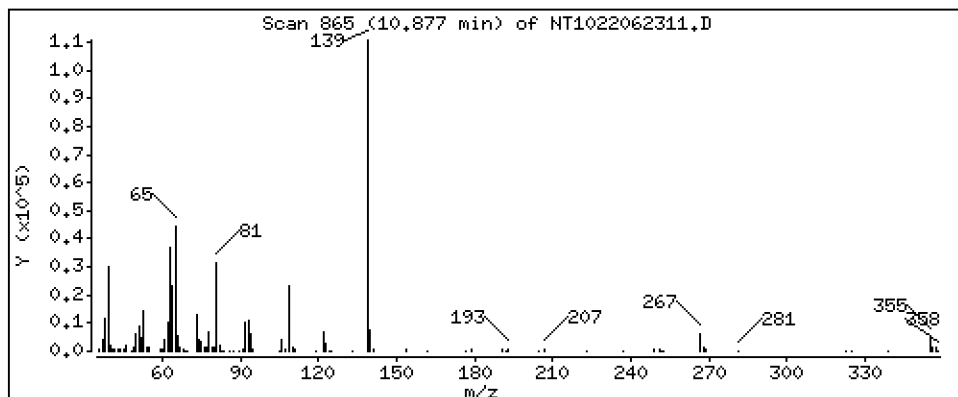
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,128 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

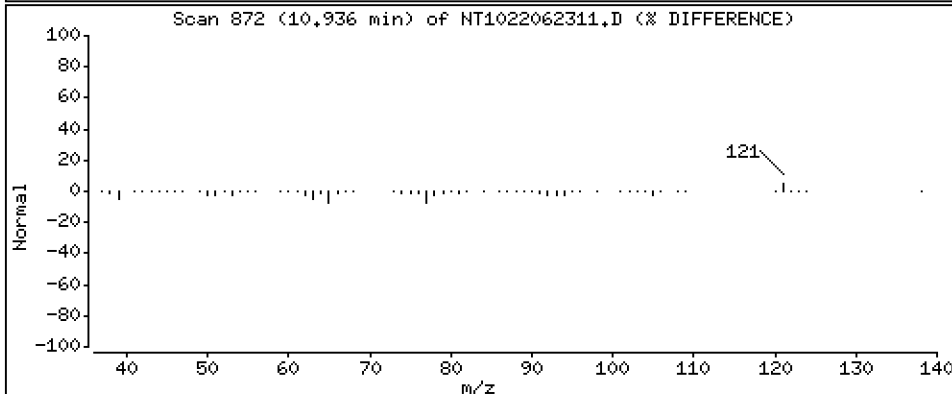
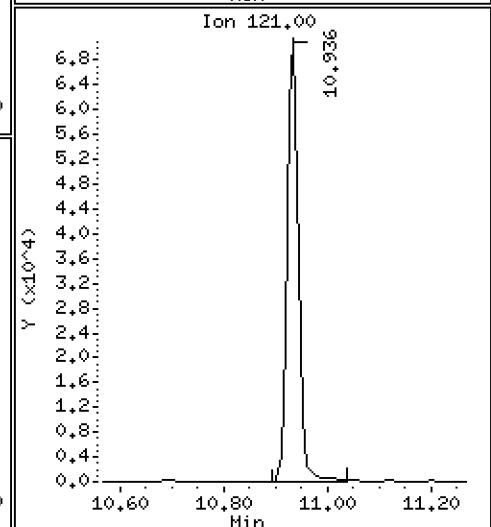
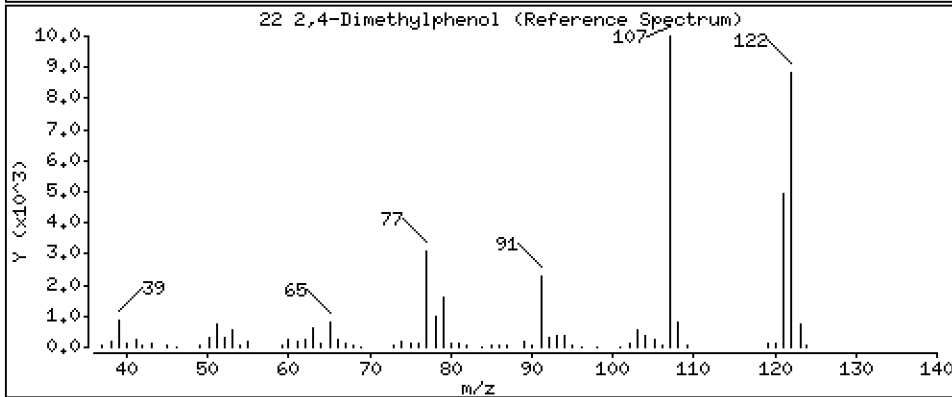
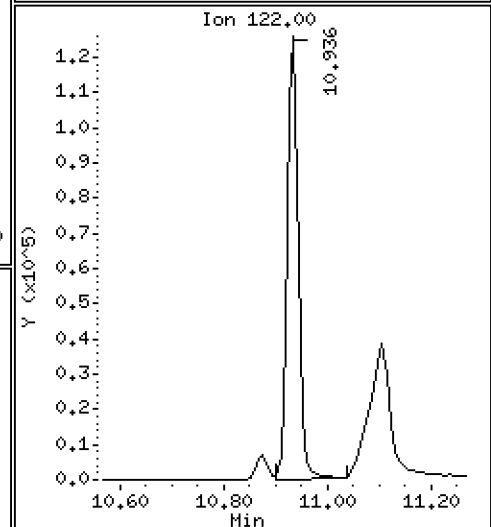
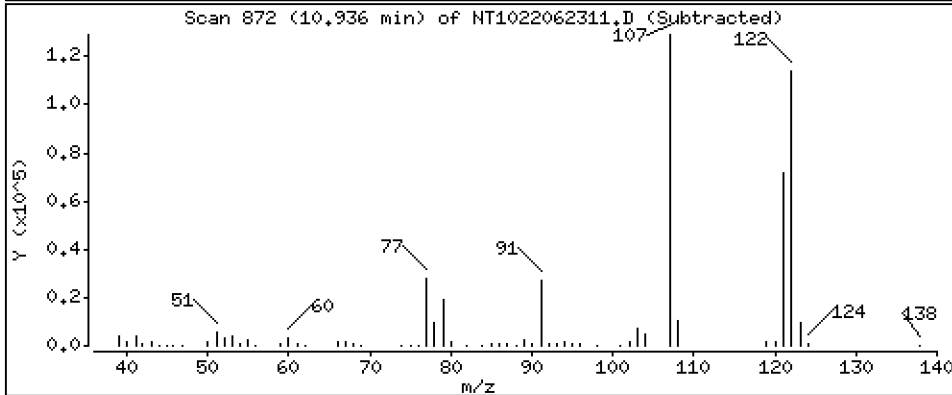
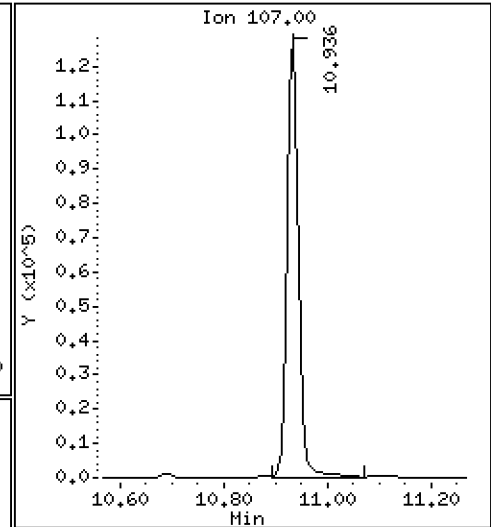
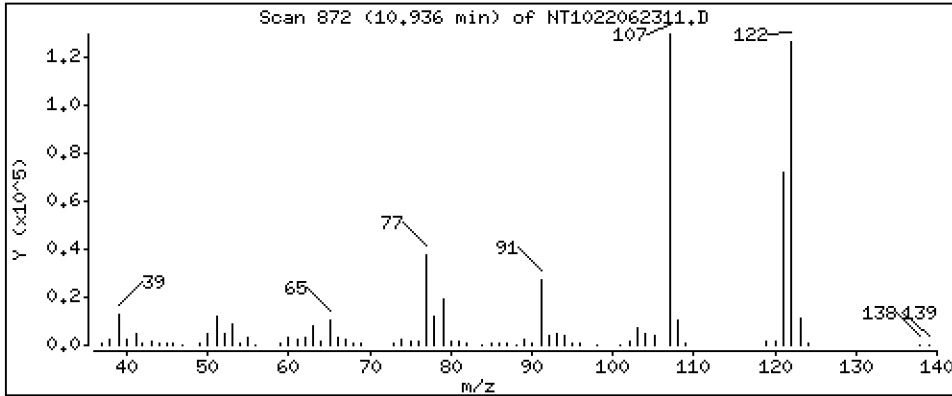
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 4,736 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

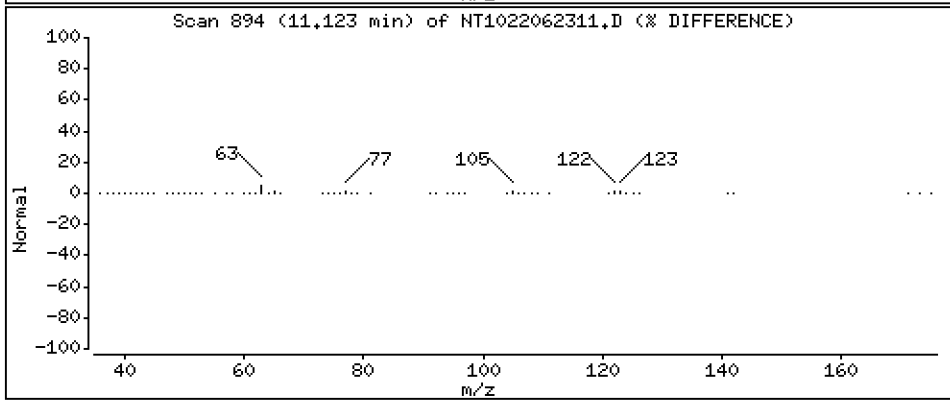
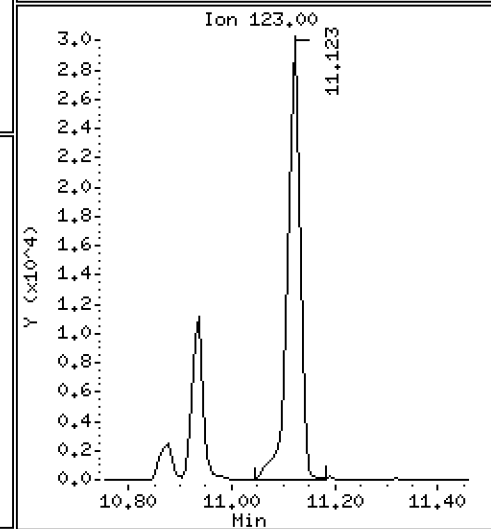
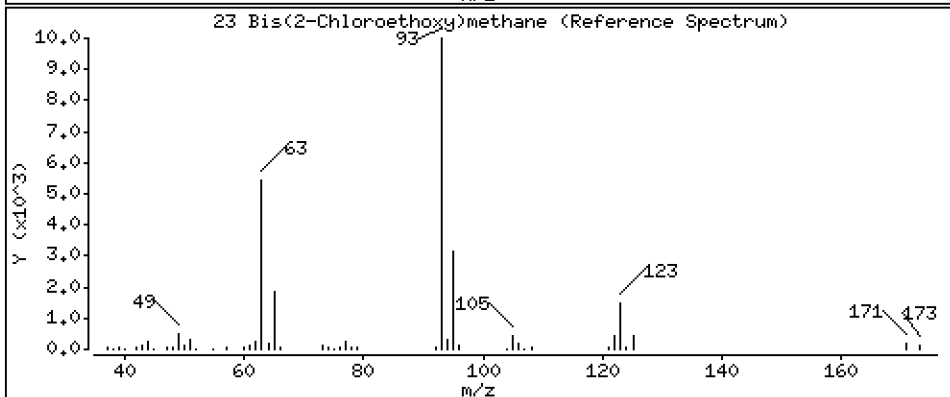
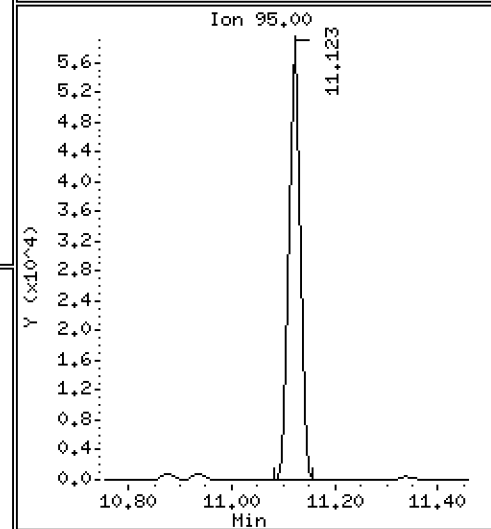
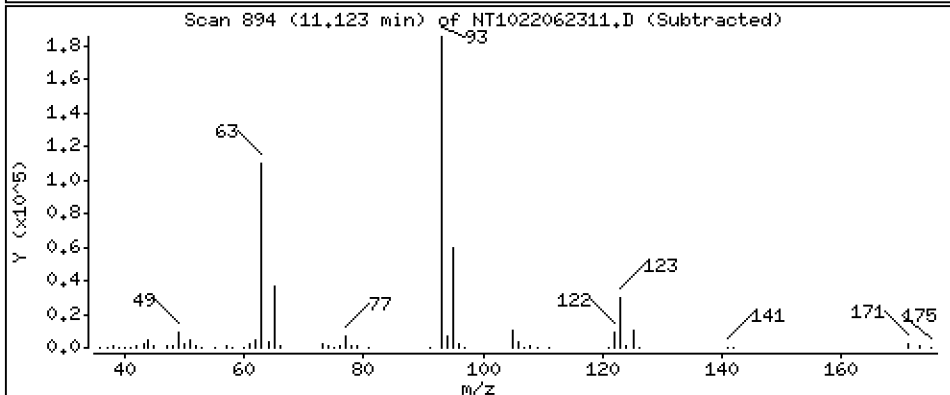
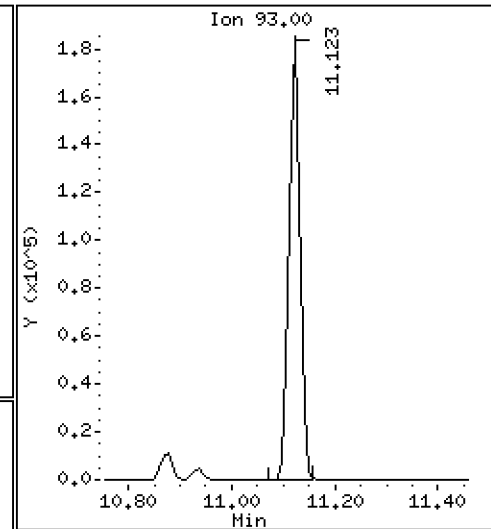
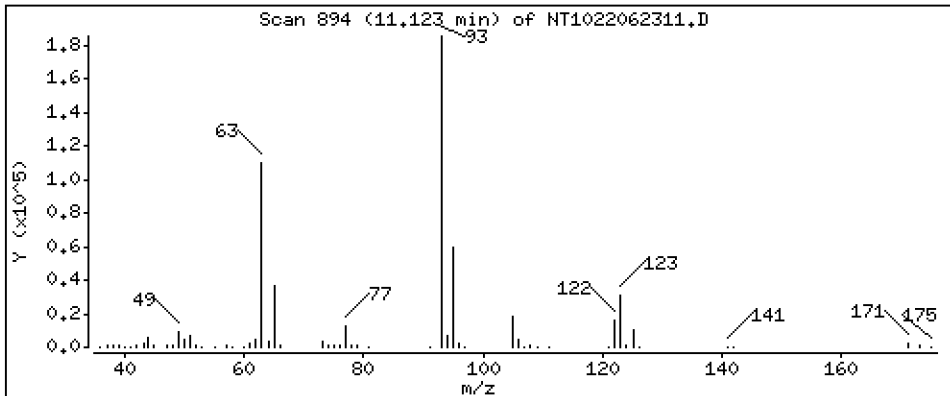
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,735 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

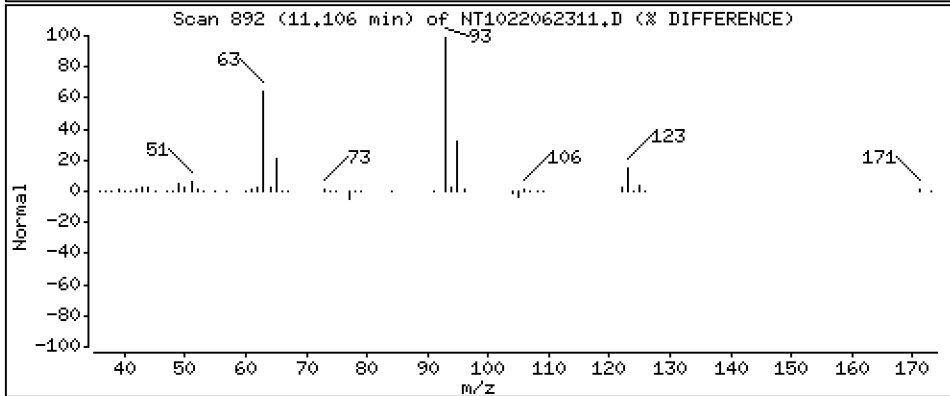
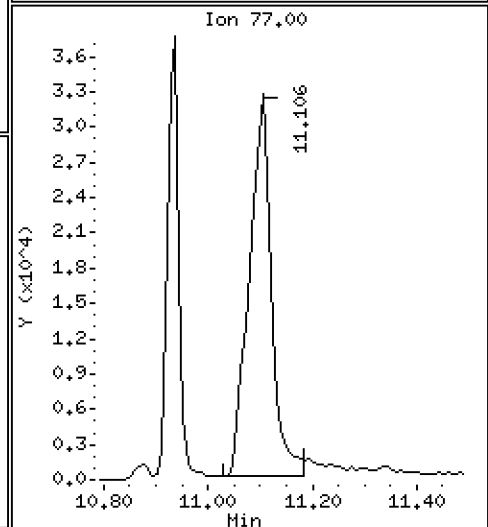
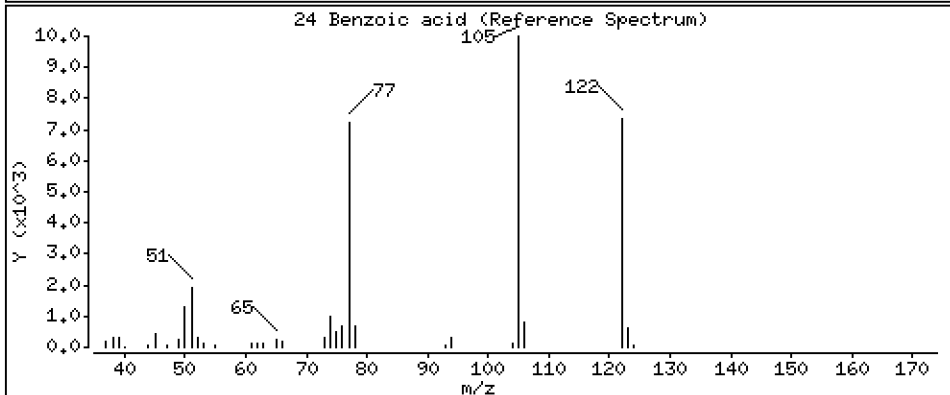
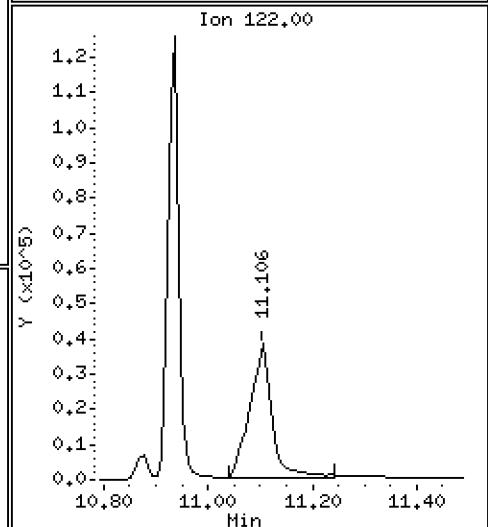
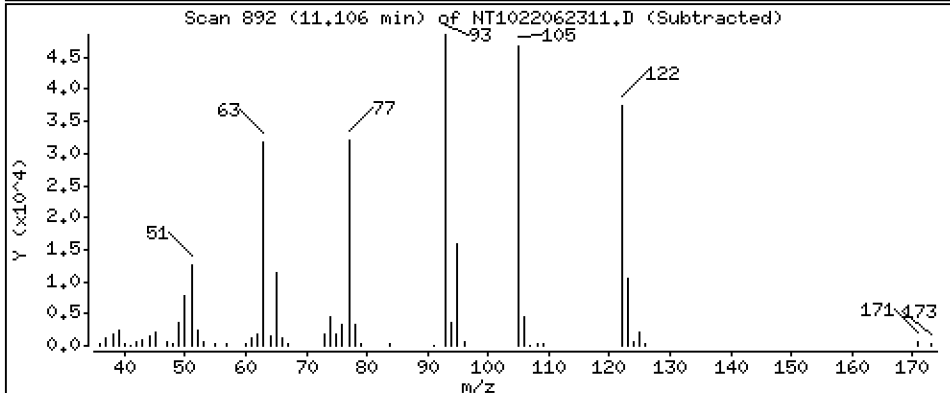
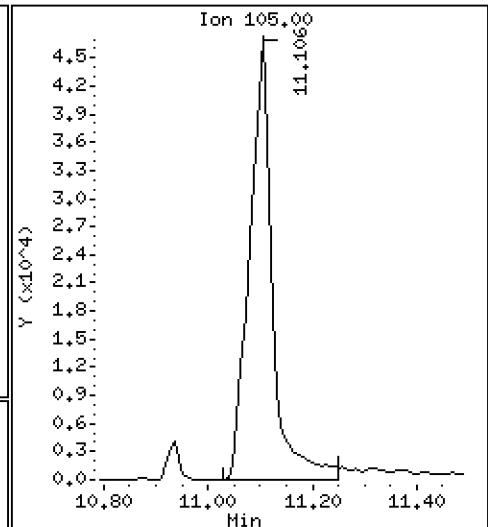
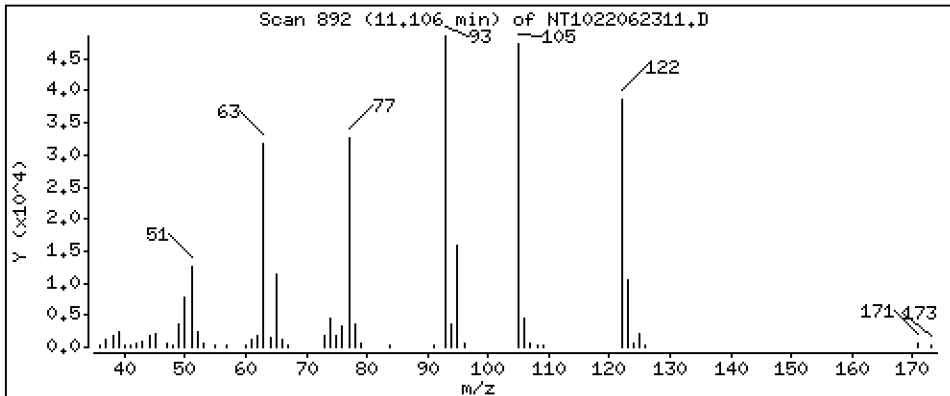
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 6,621 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

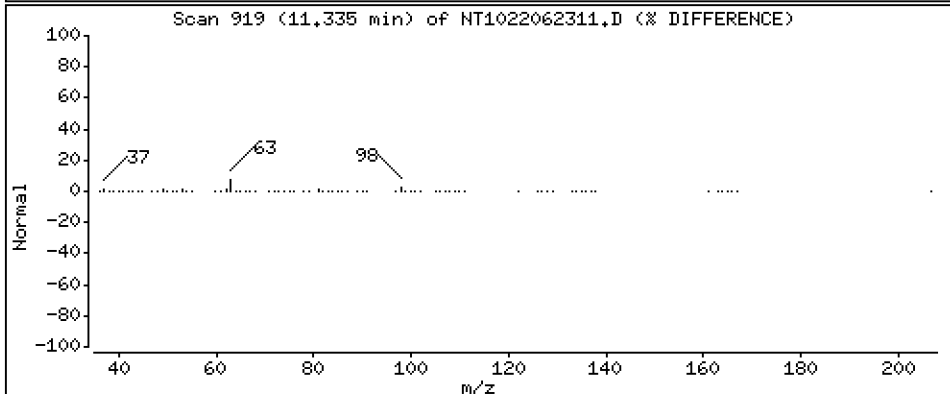
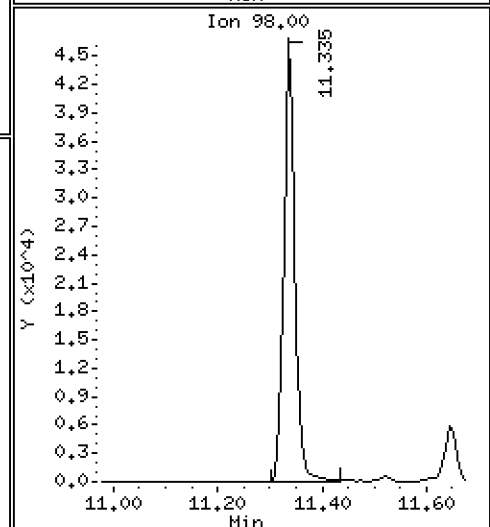
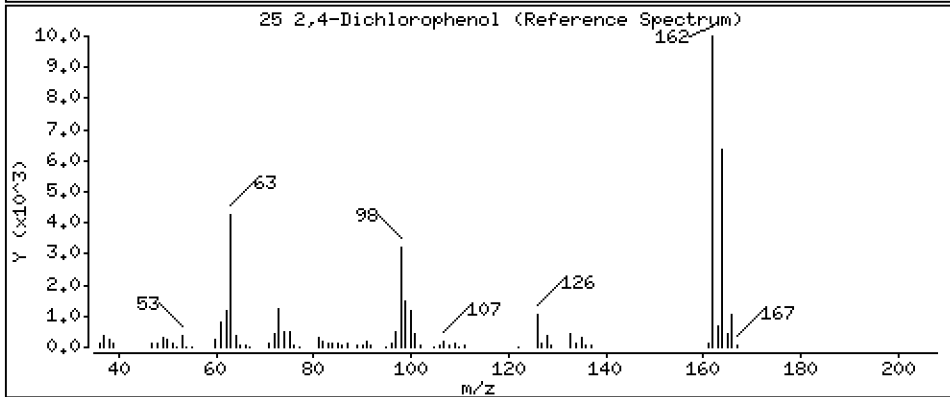
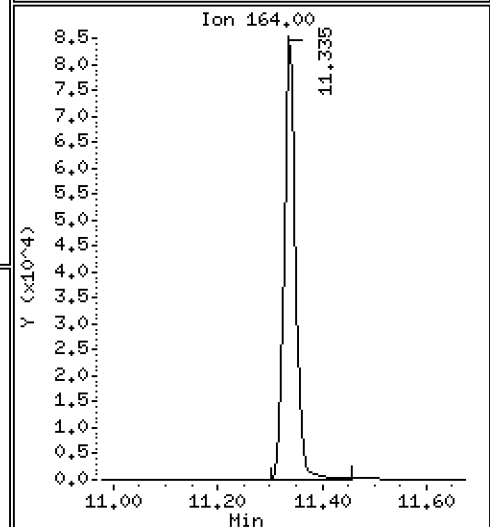
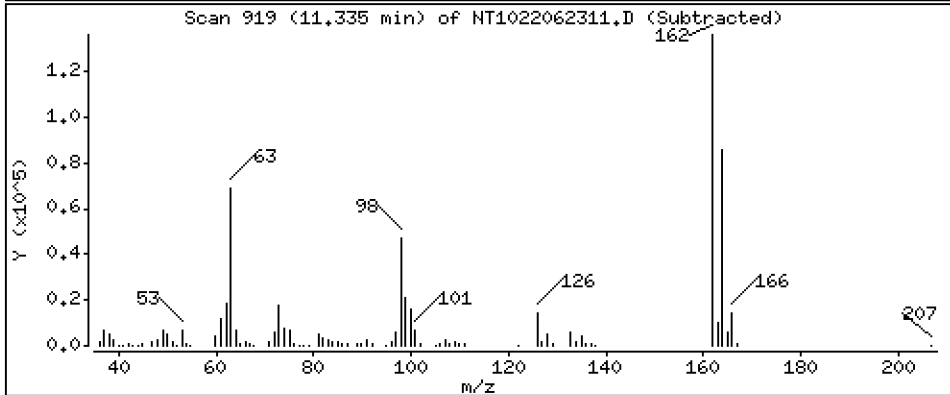
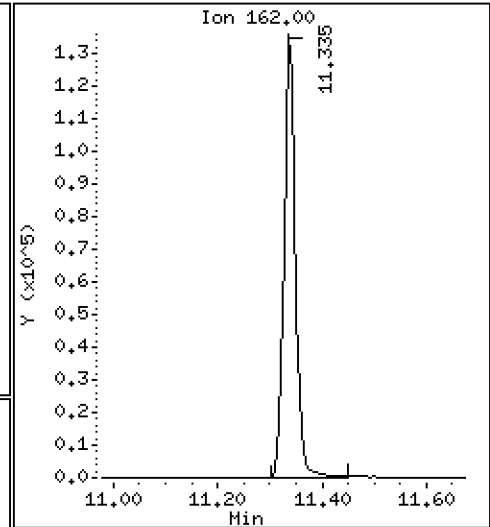
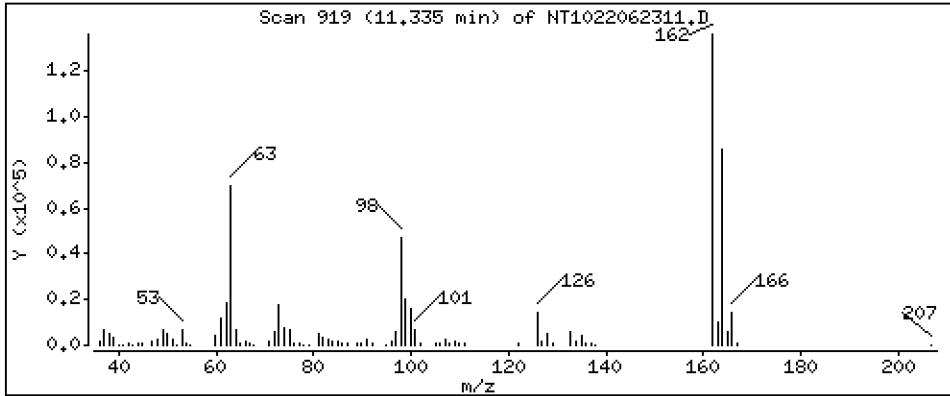
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 5,545 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

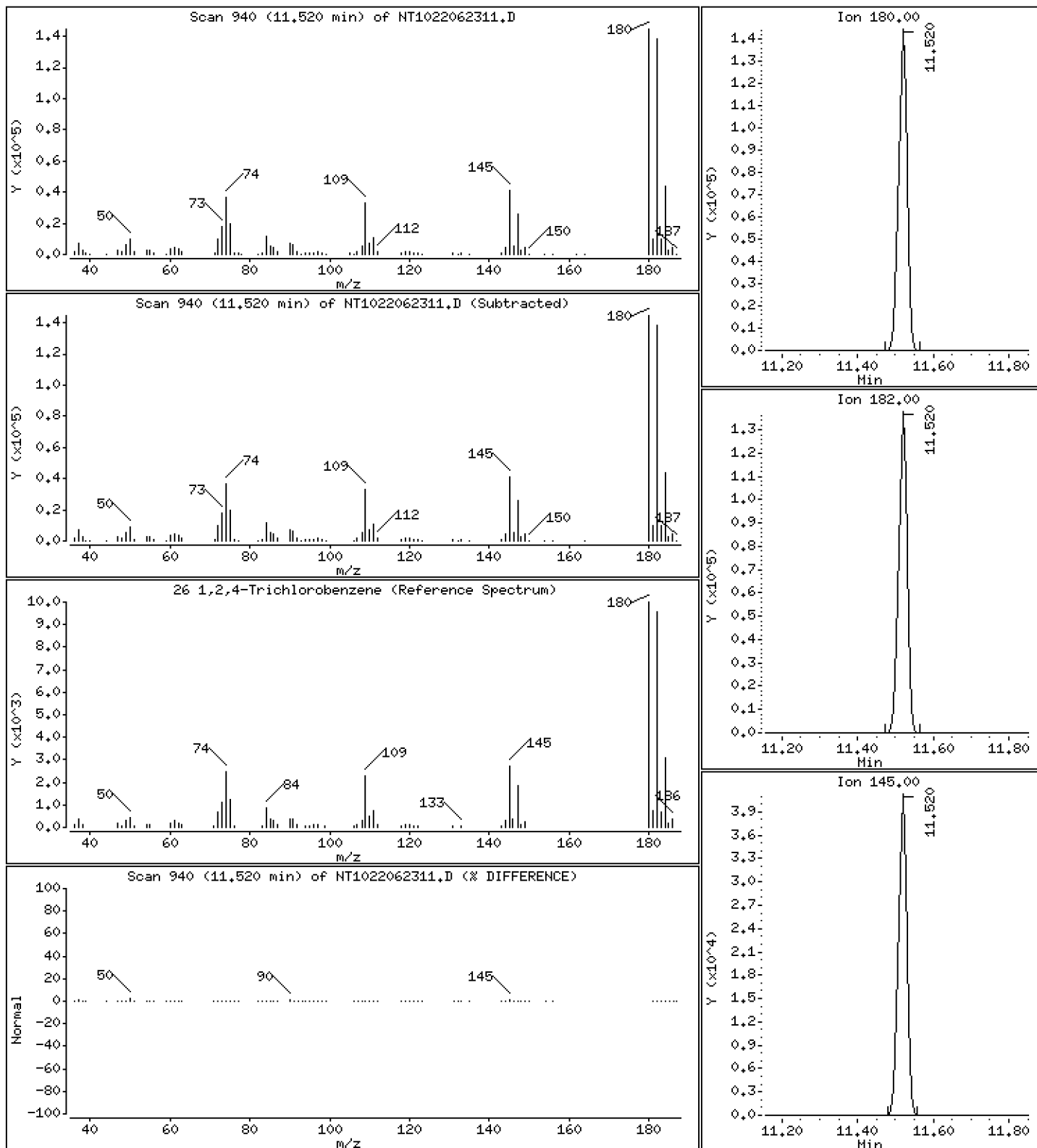
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,888 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

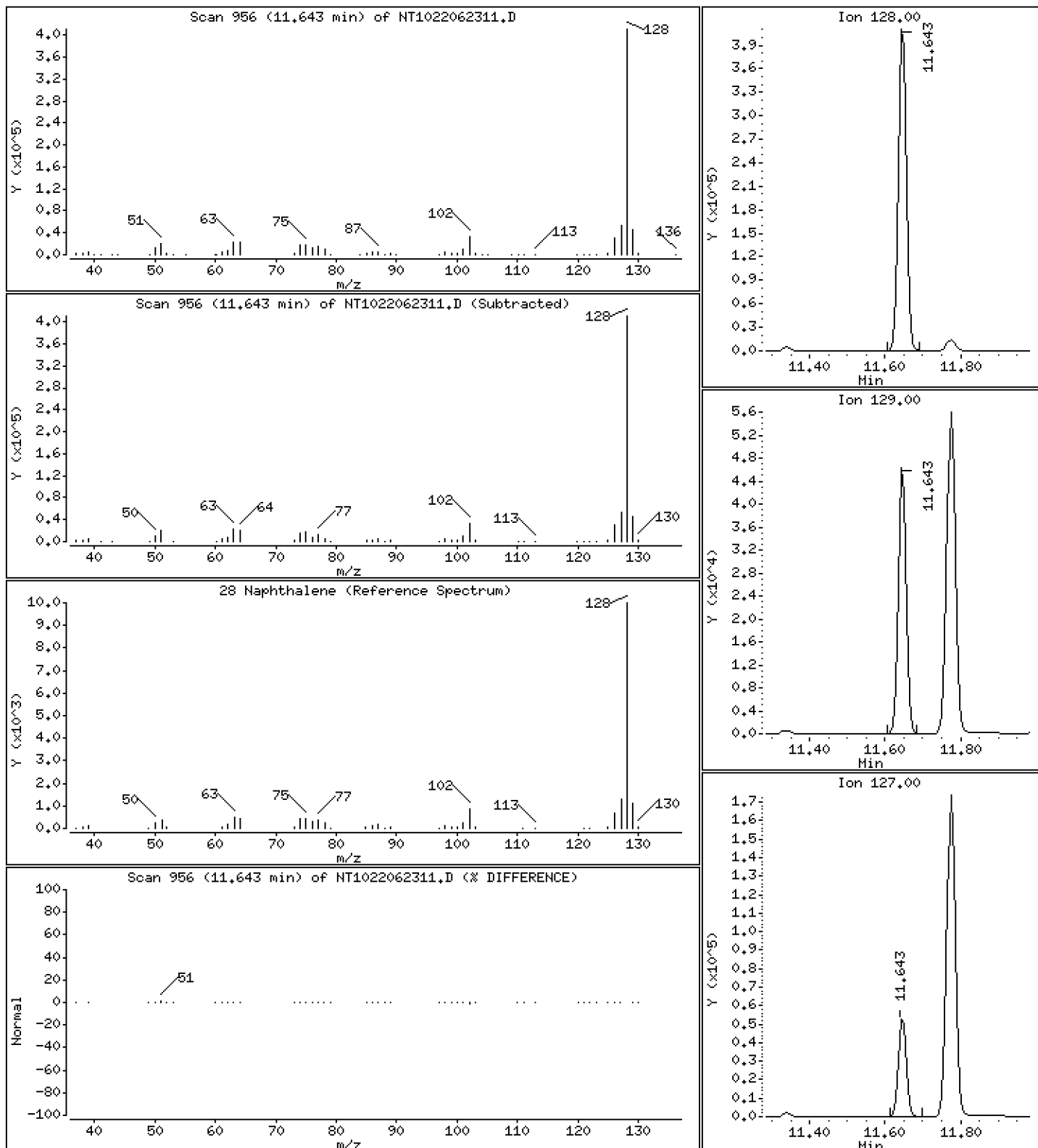
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,947 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

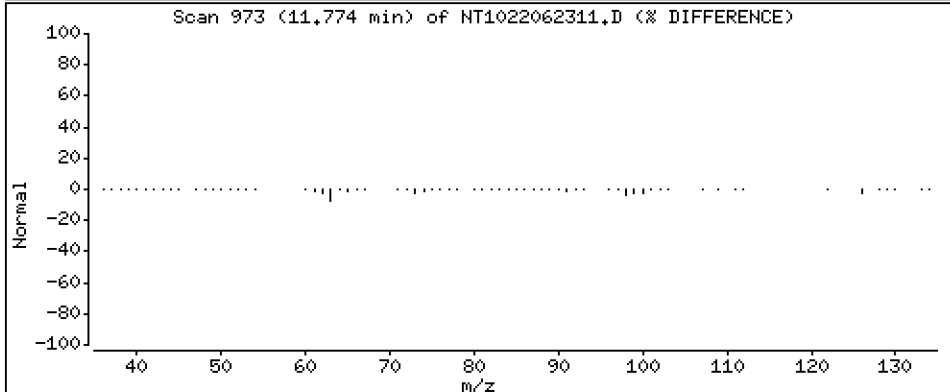
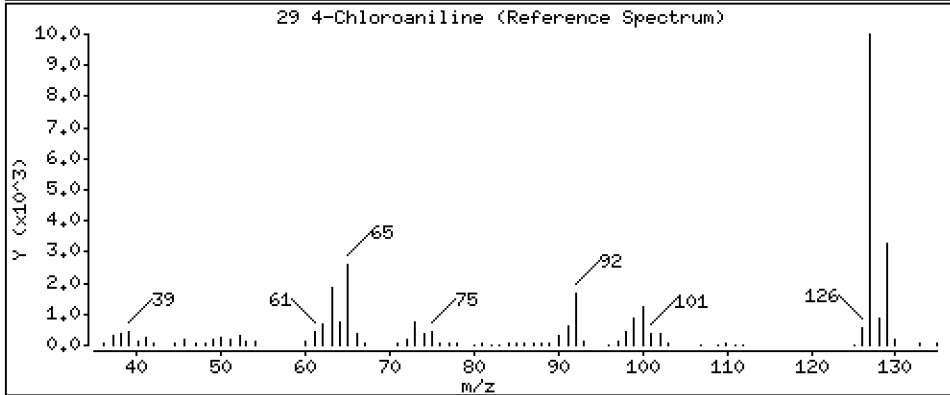
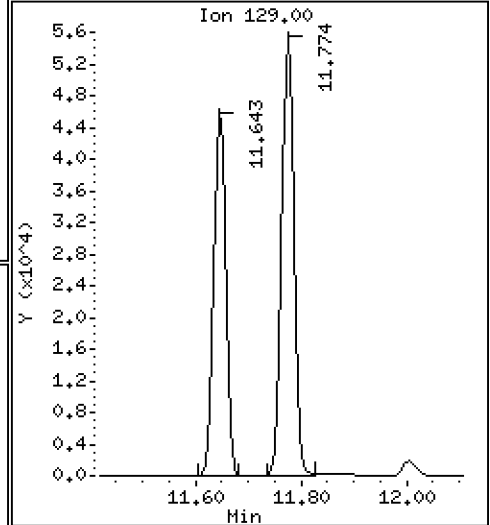
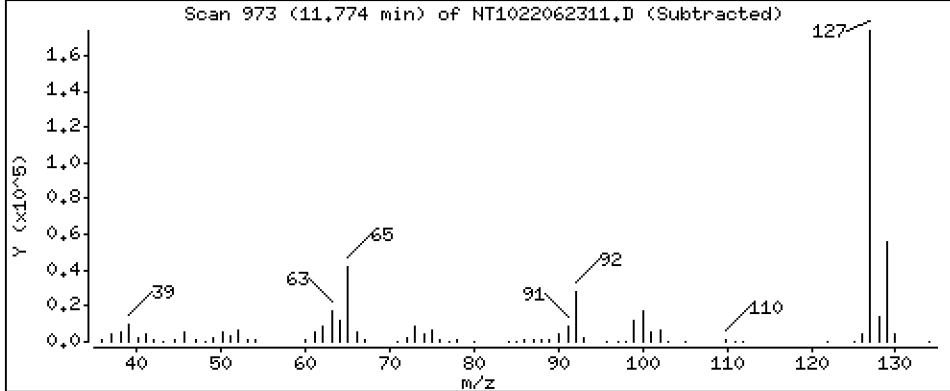
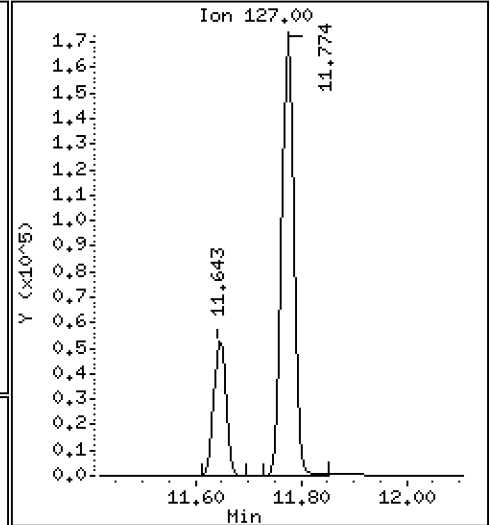
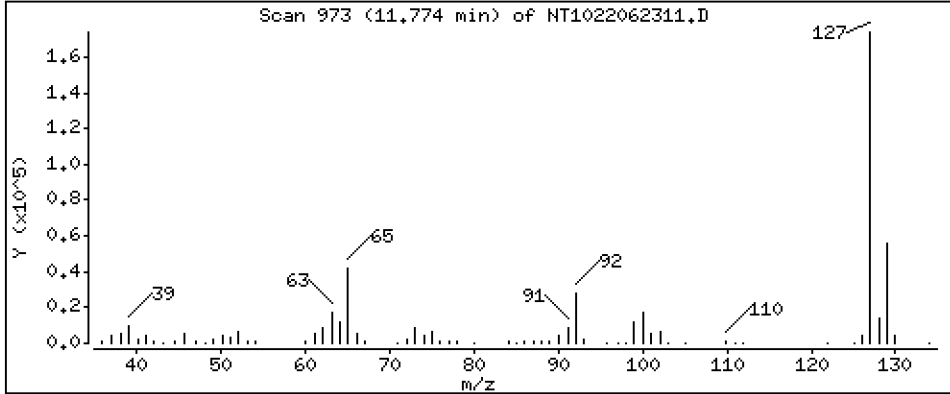
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 4,646 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

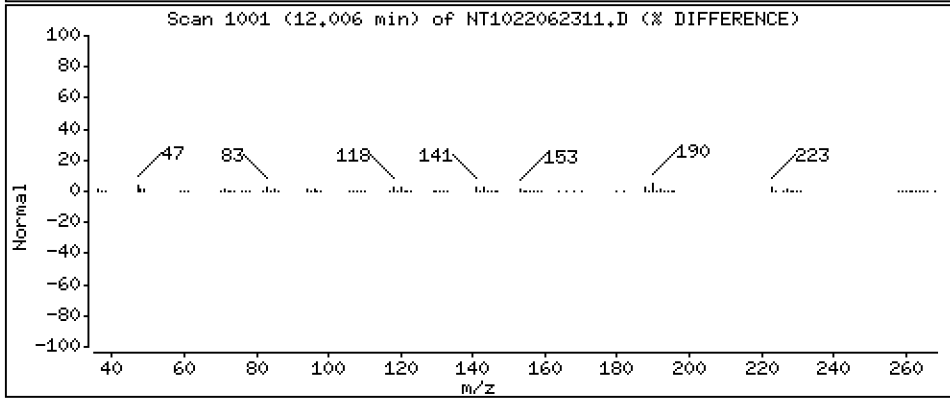
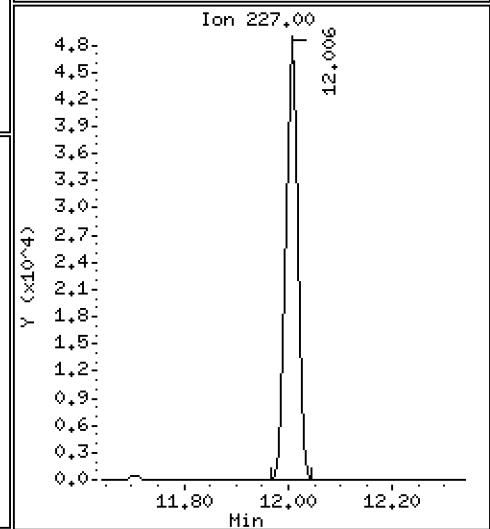
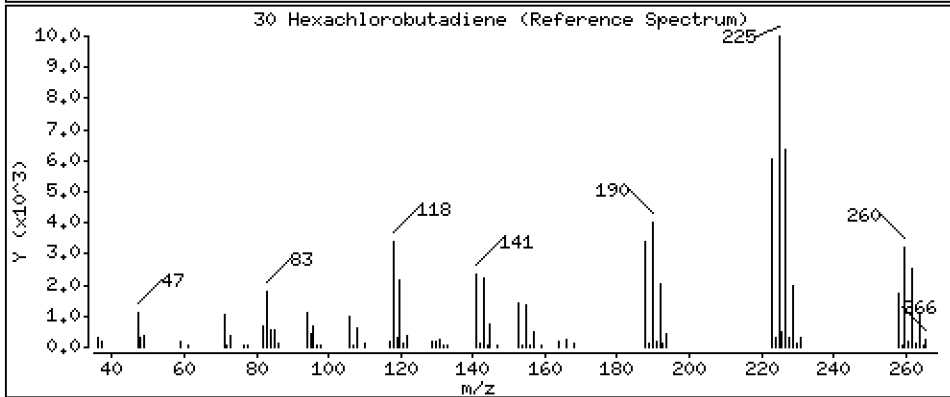
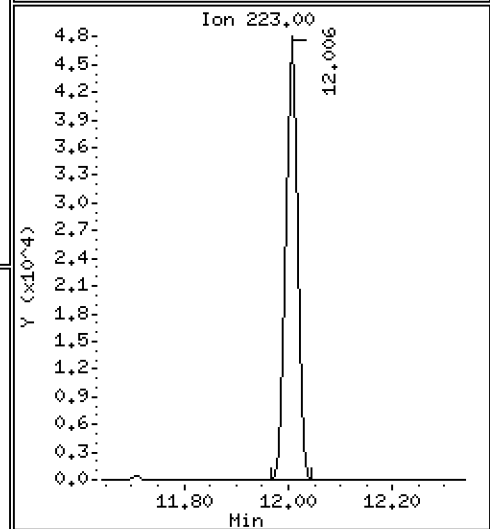
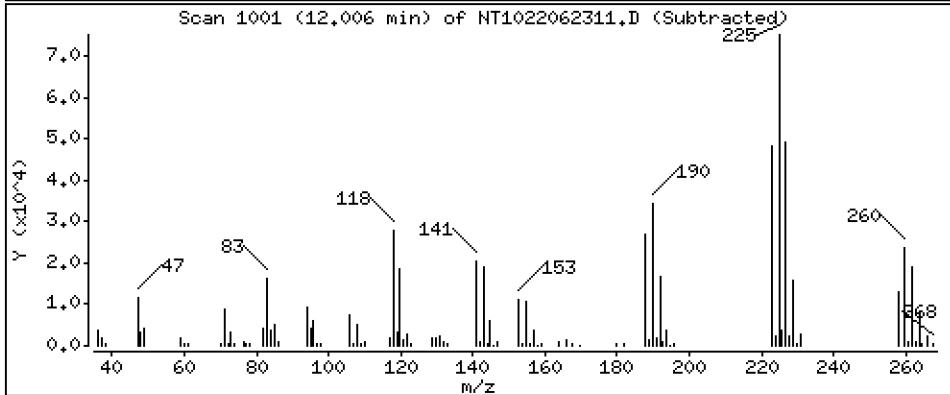
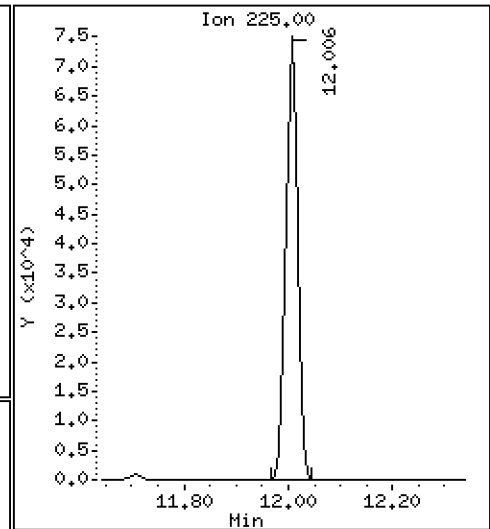
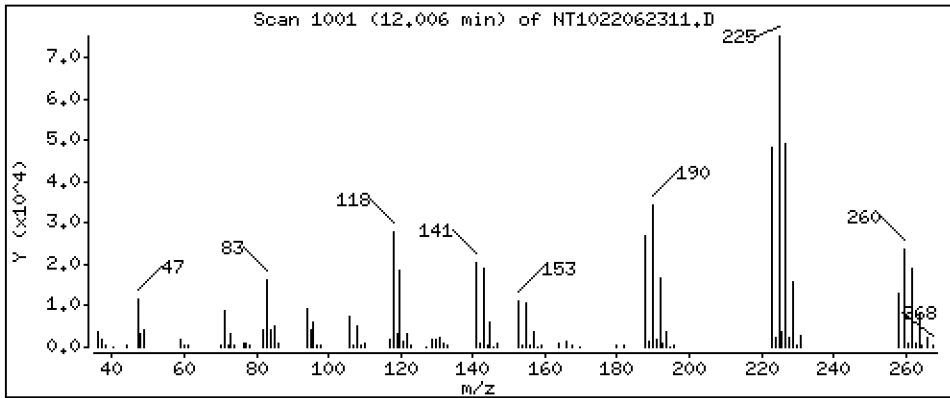
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 5,339 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

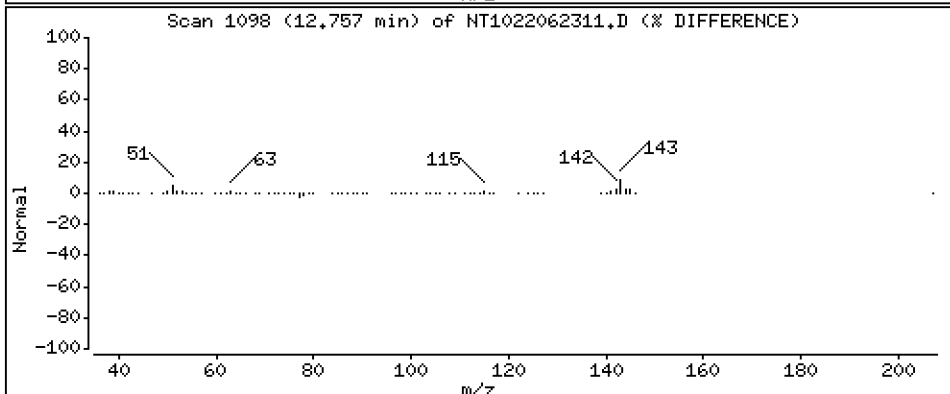
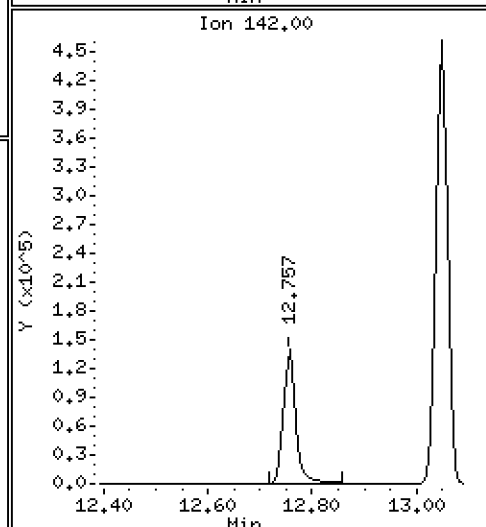
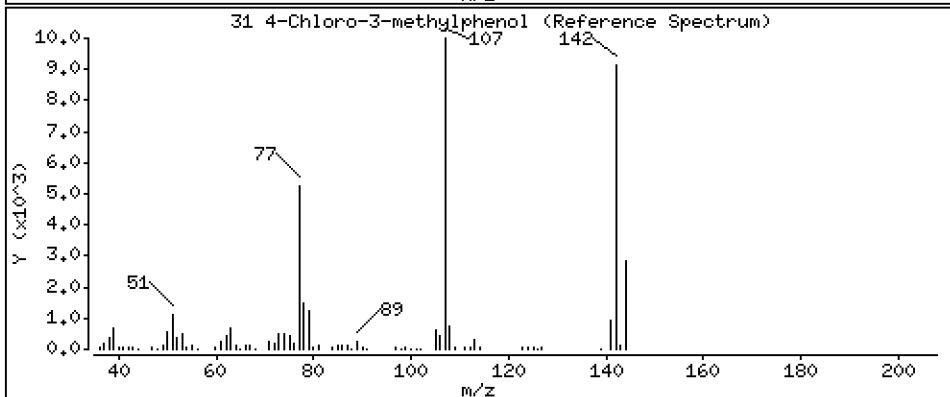
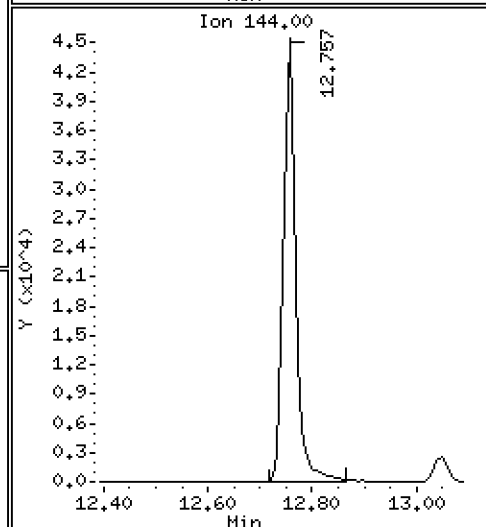
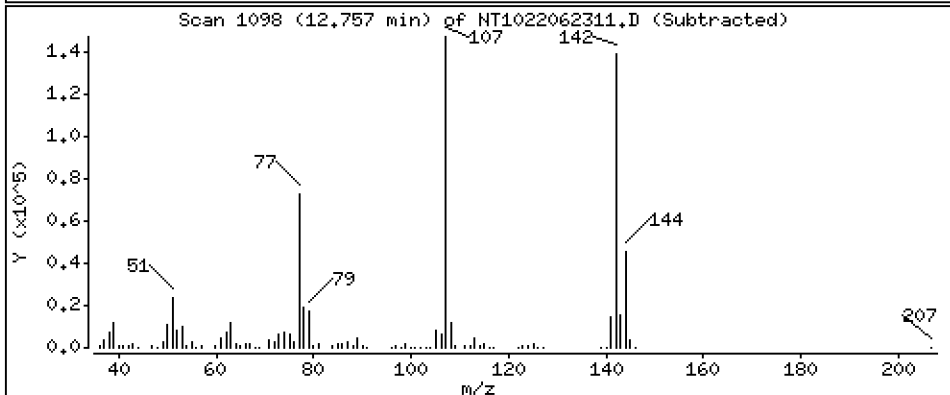
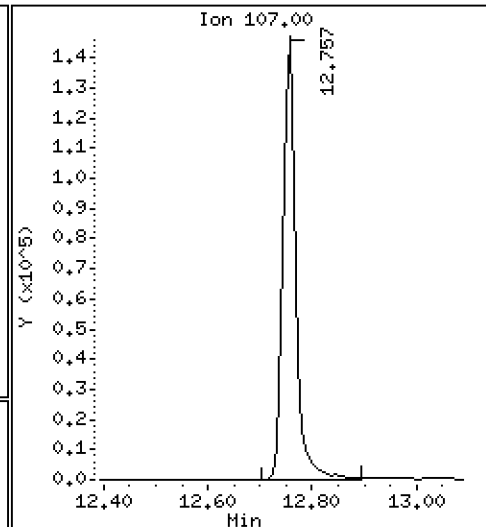
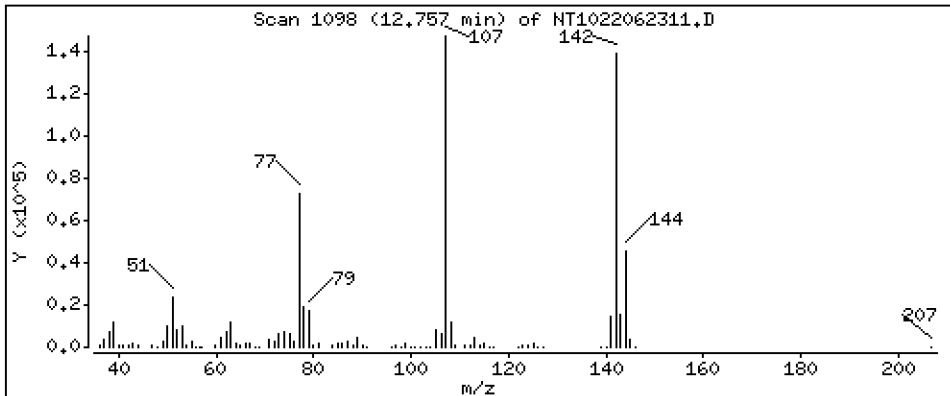
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 4,853 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

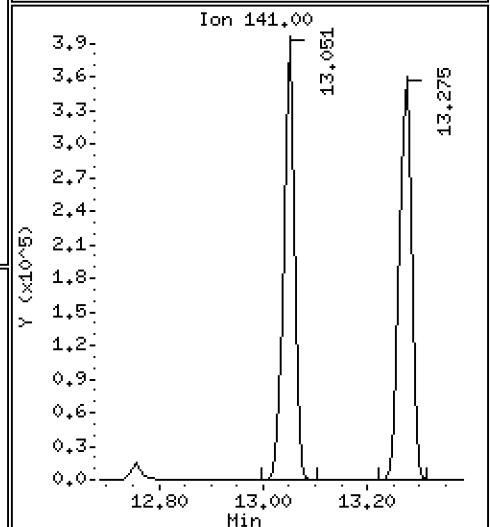
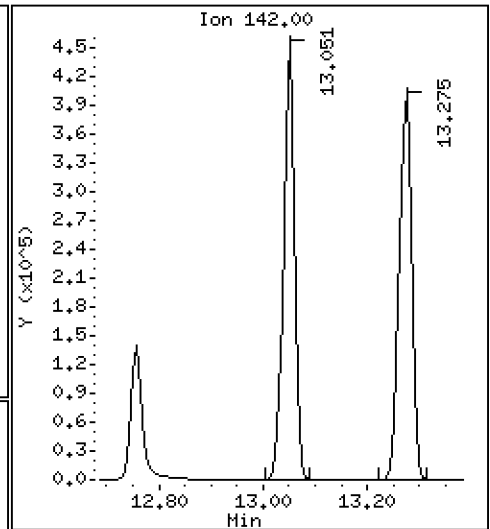
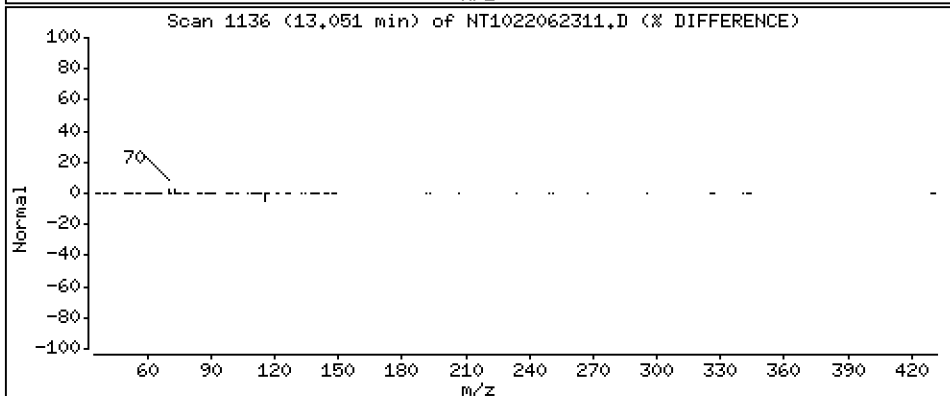
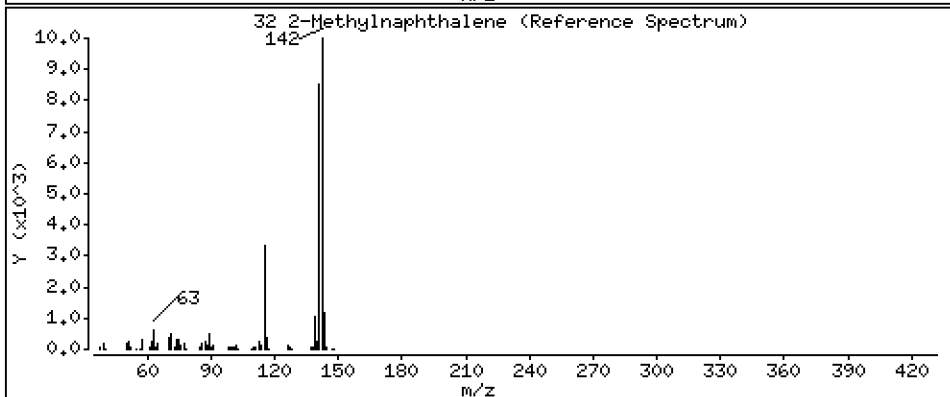
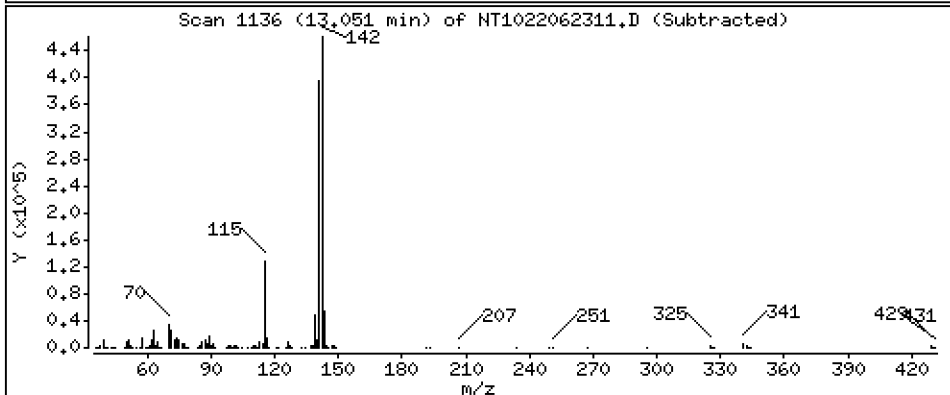
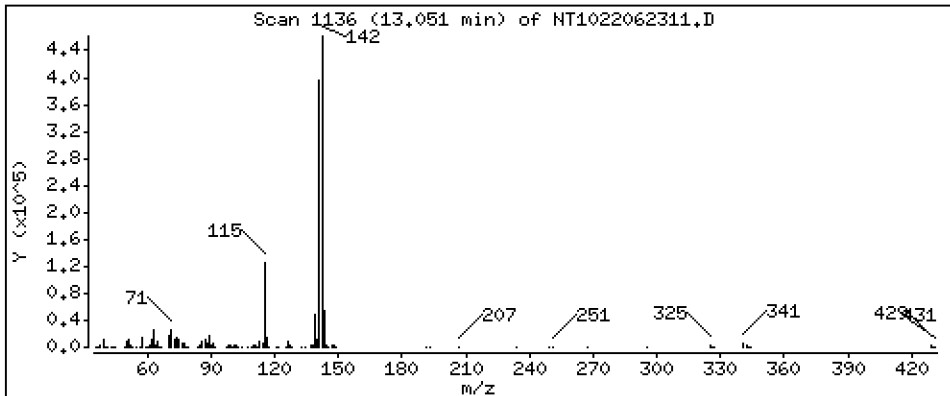
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 5,214 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

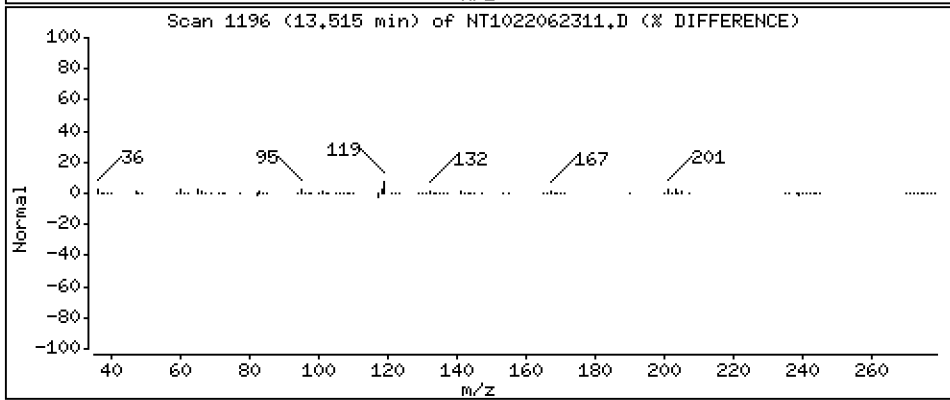
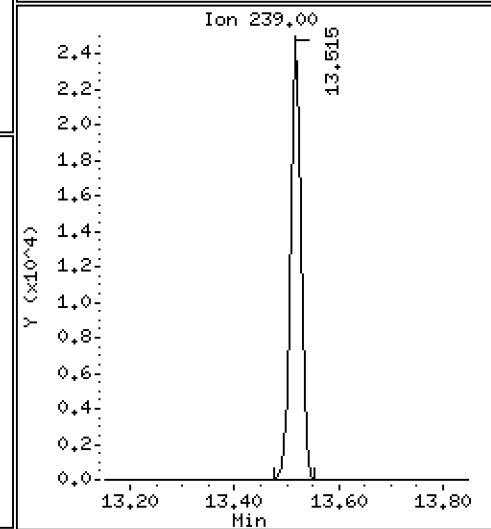
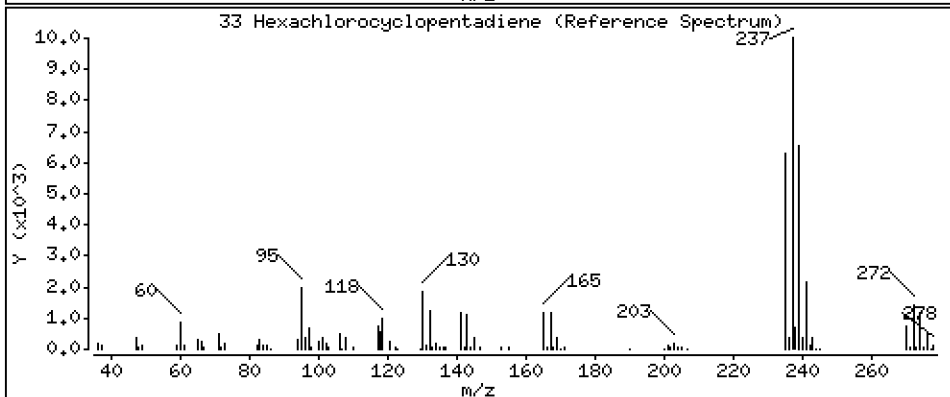
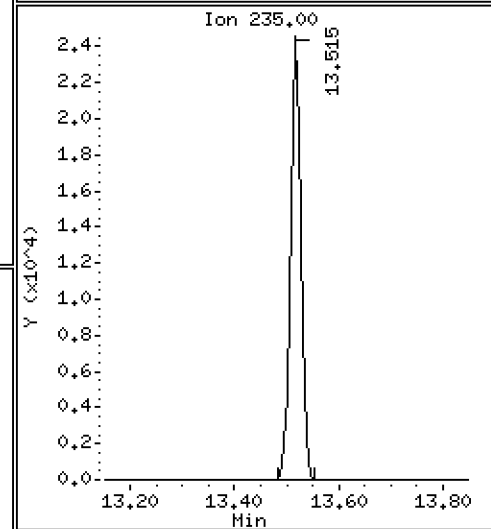
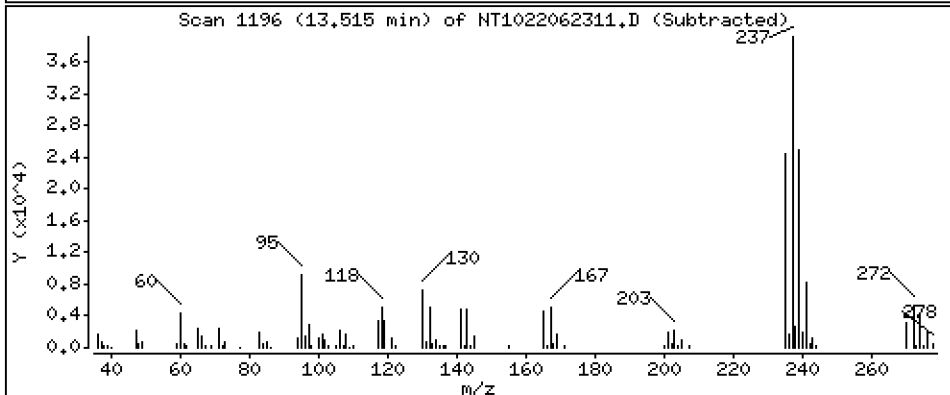
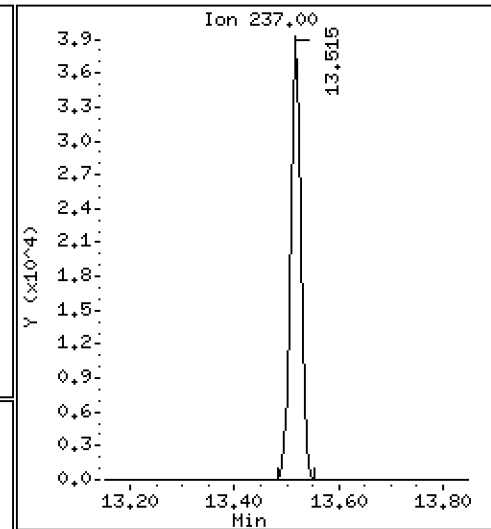
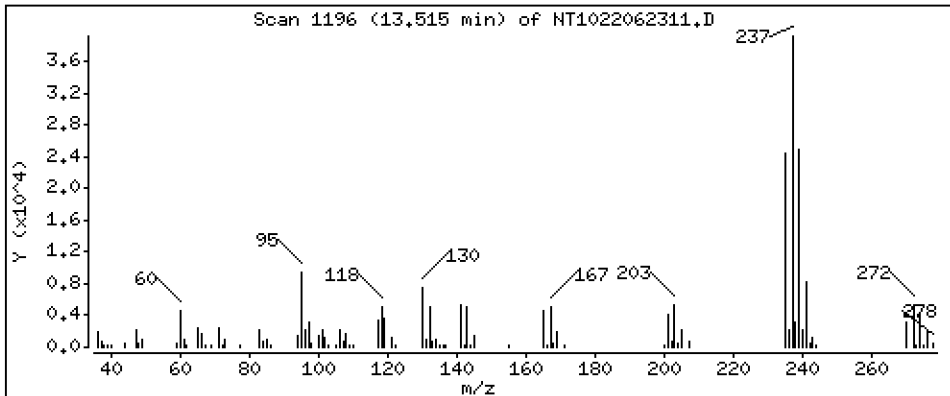
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 3,326 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

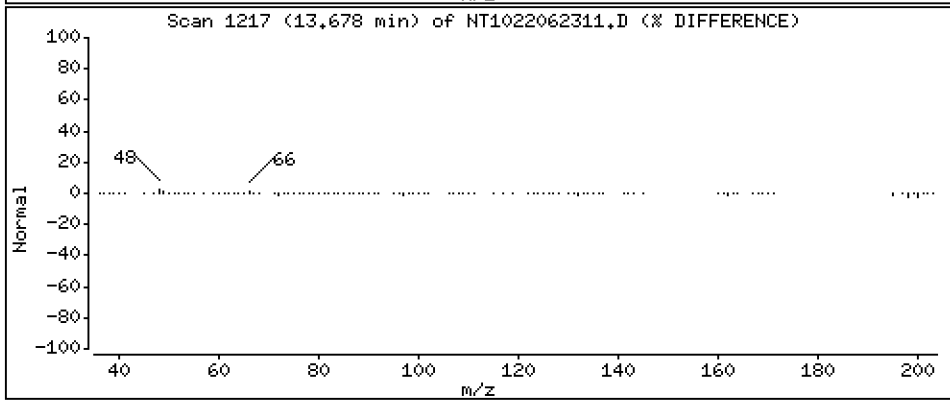
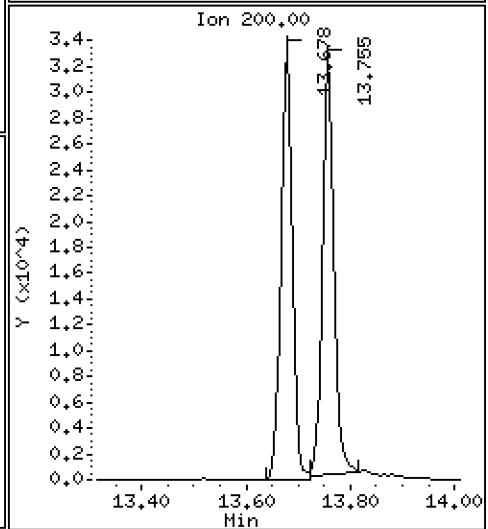
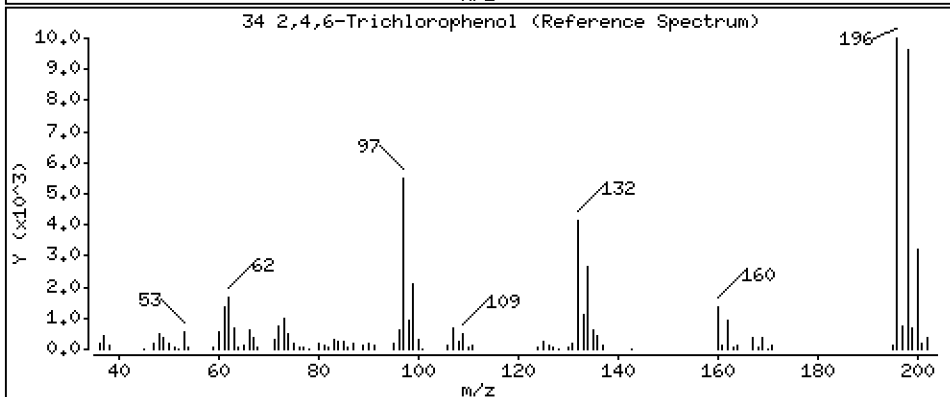
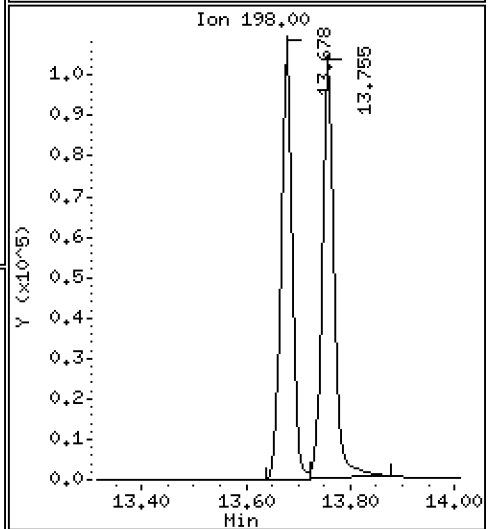
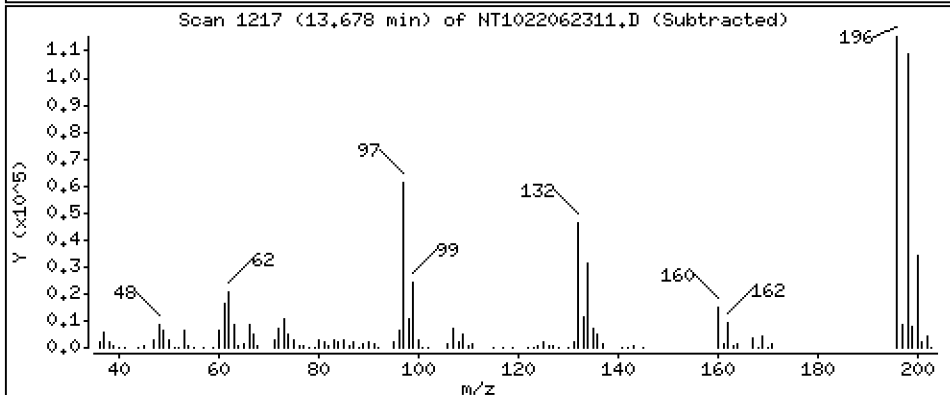
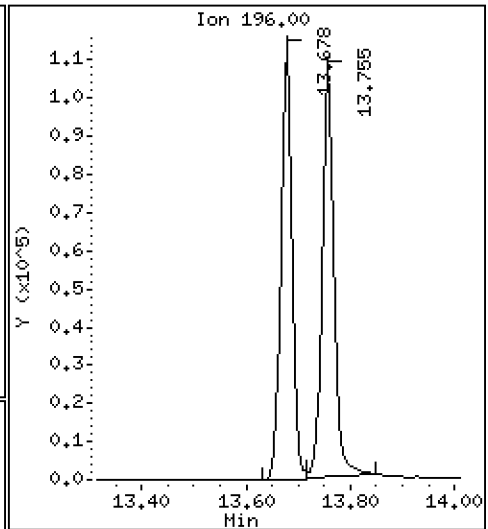
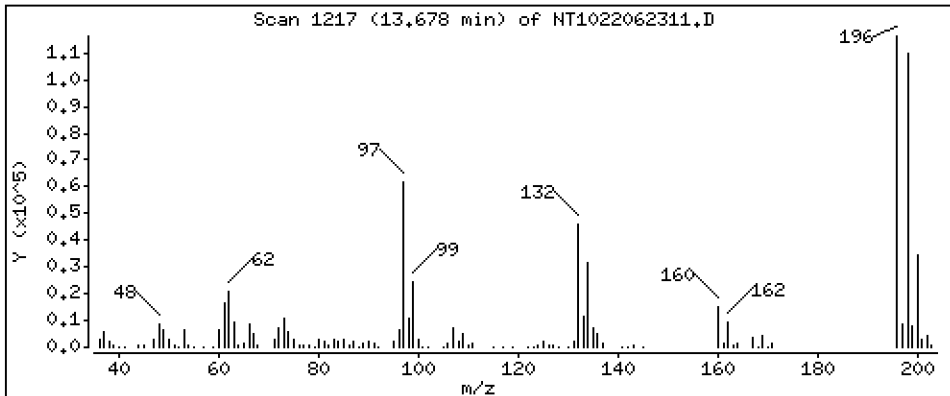
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 5,242 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

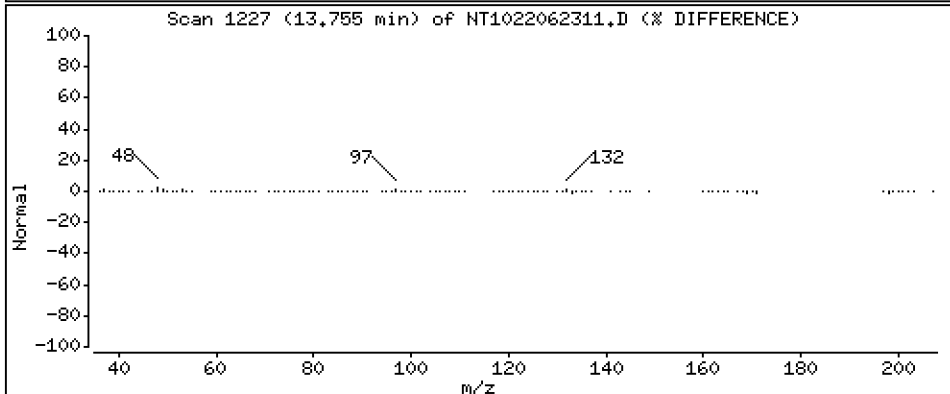
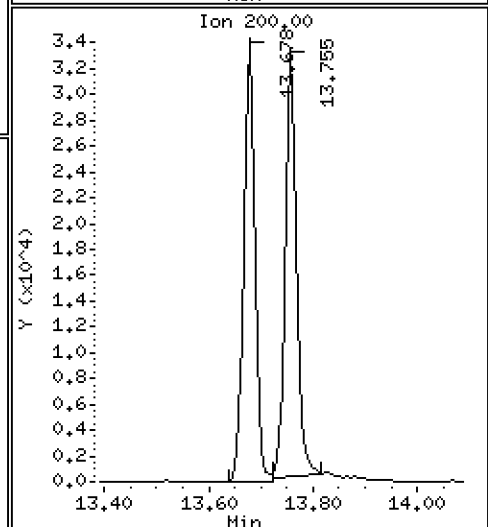
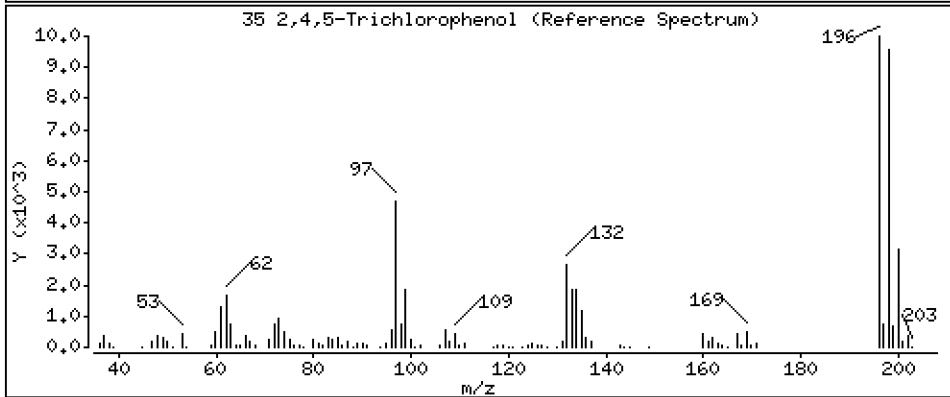
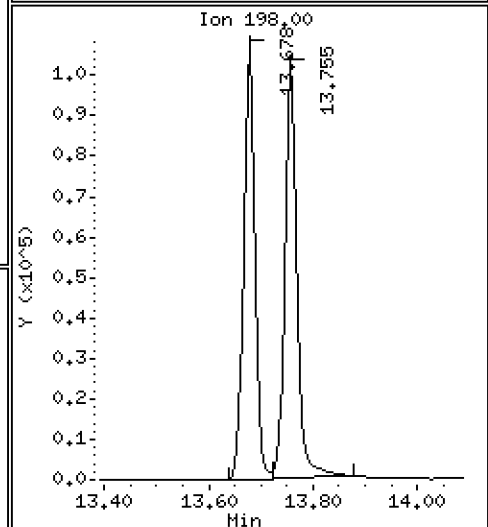
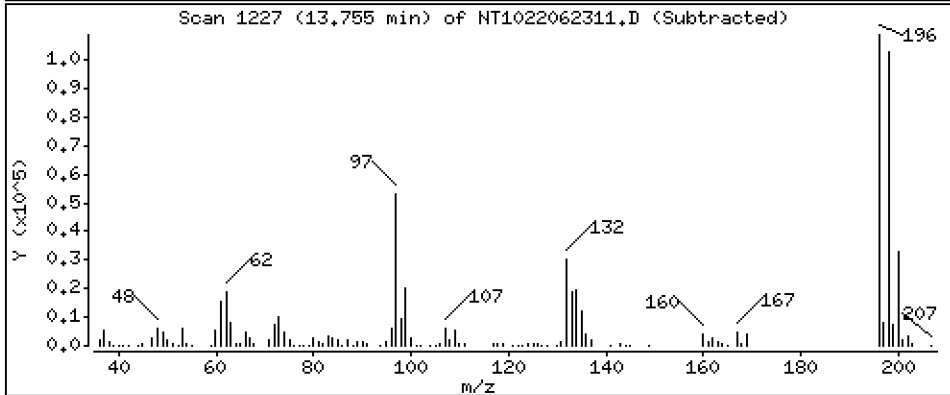
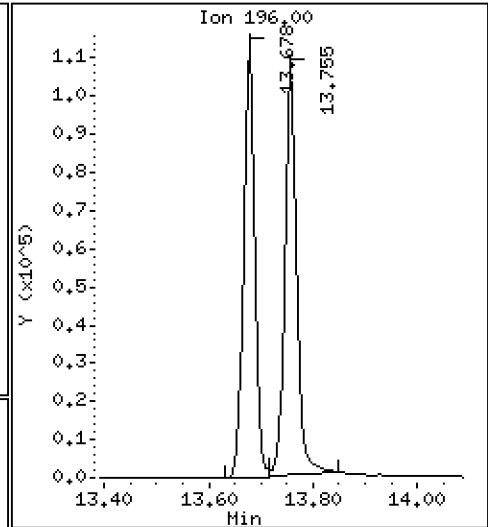
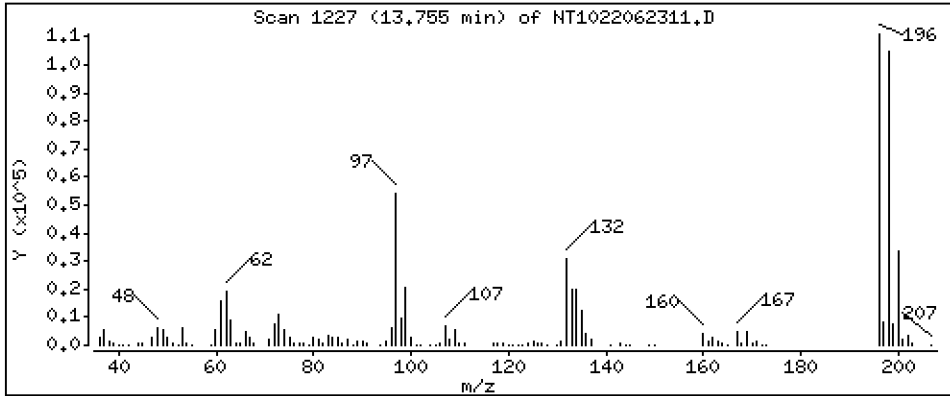
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,427 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

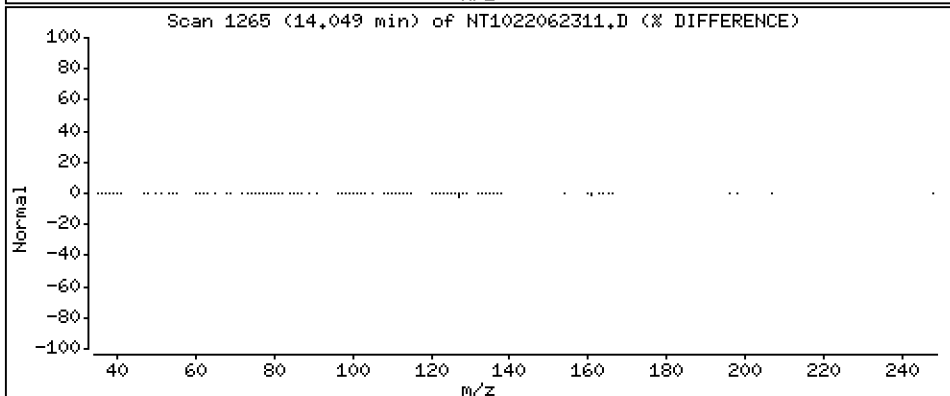
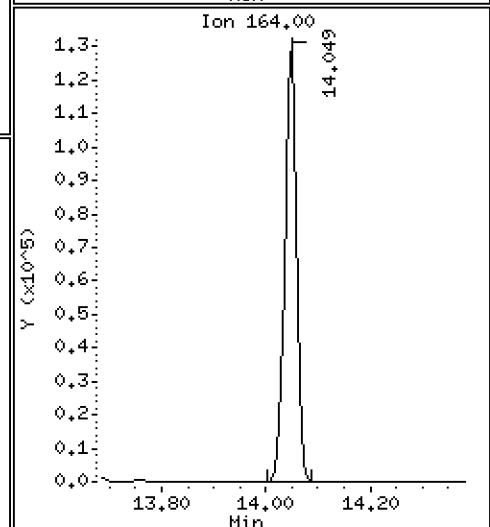
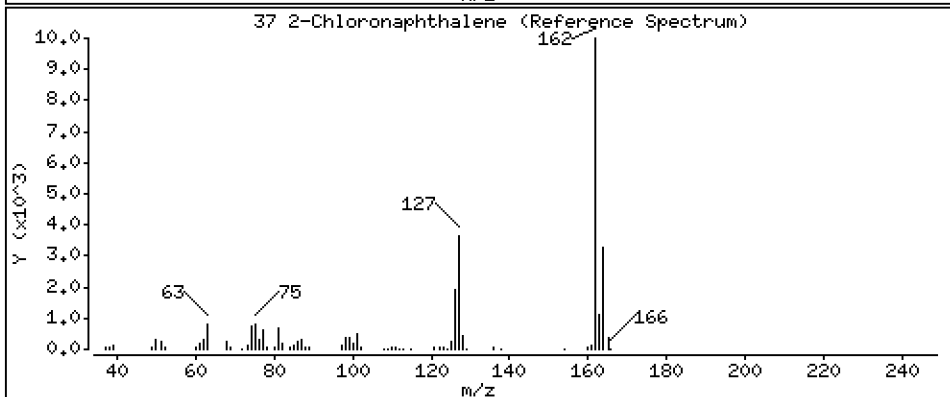
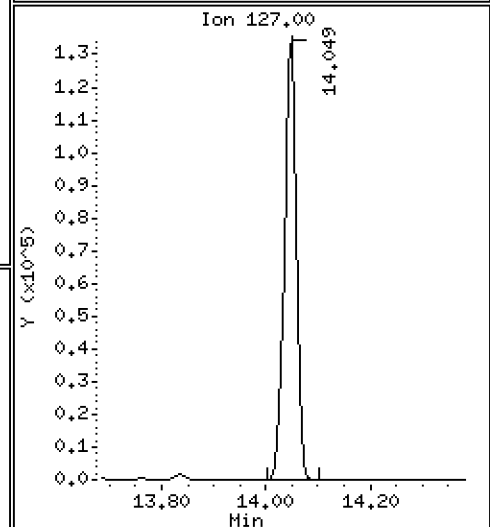
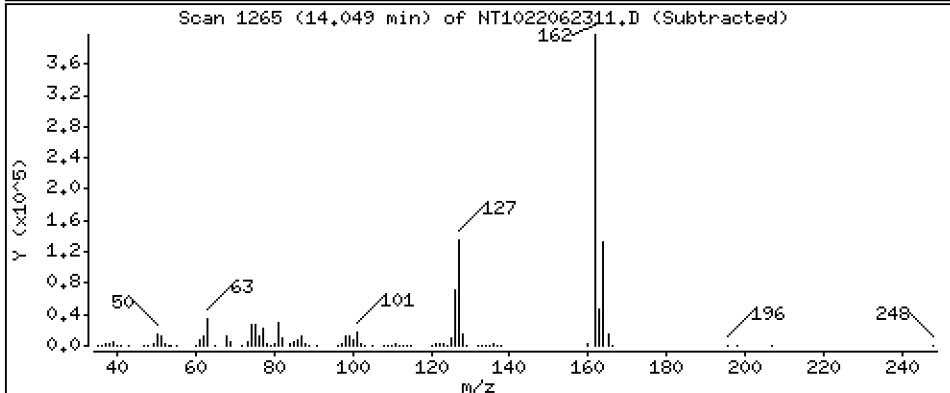
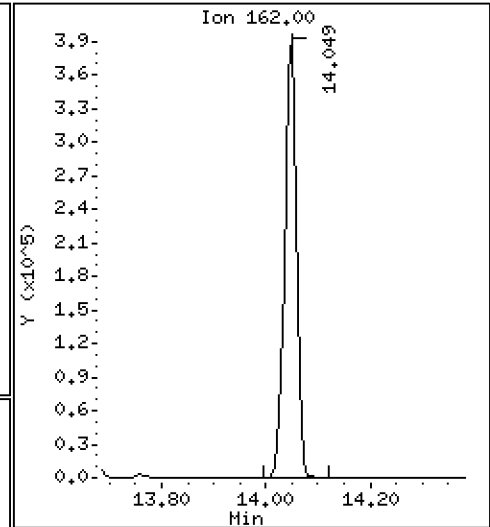
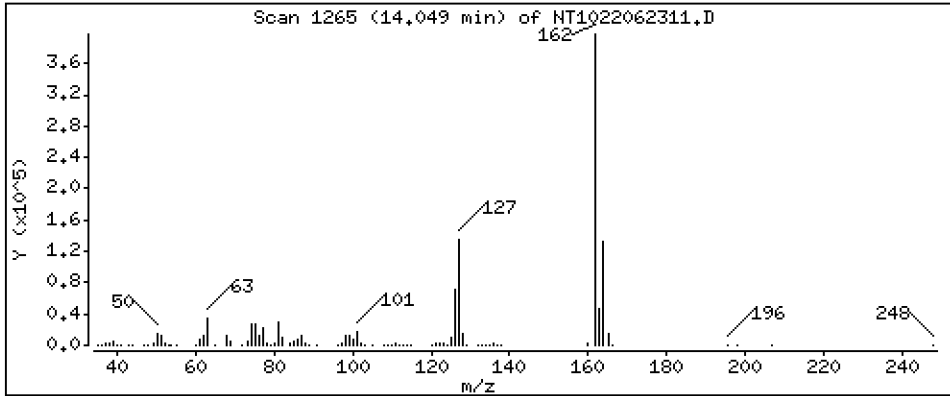
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 5,462 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

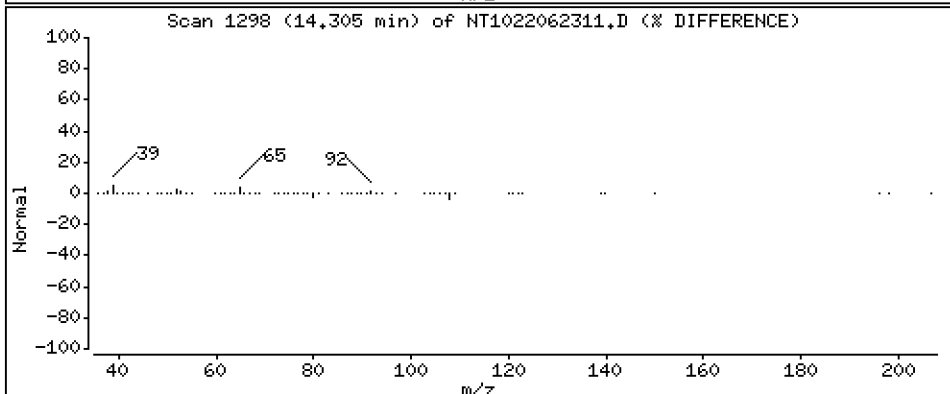
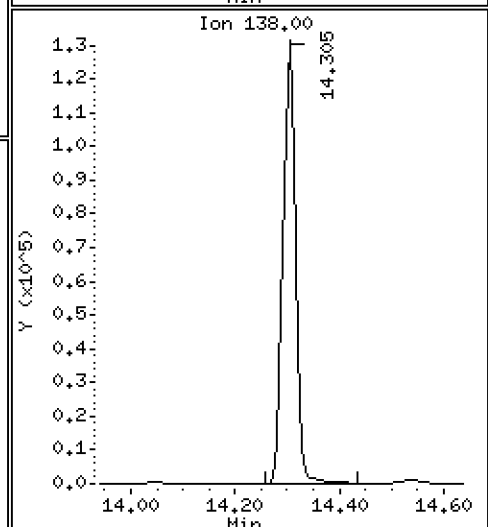
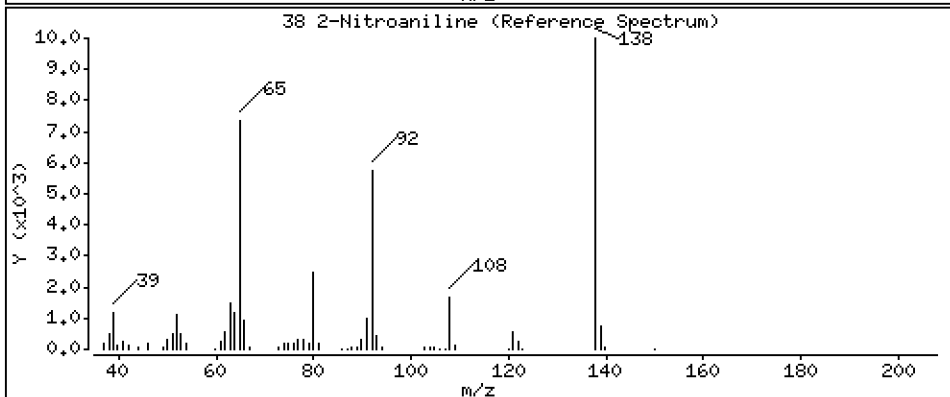
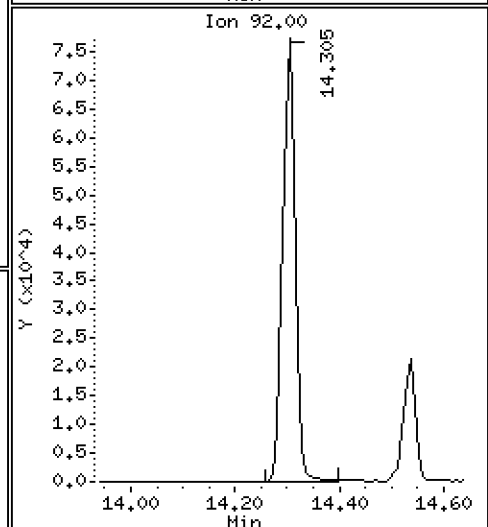
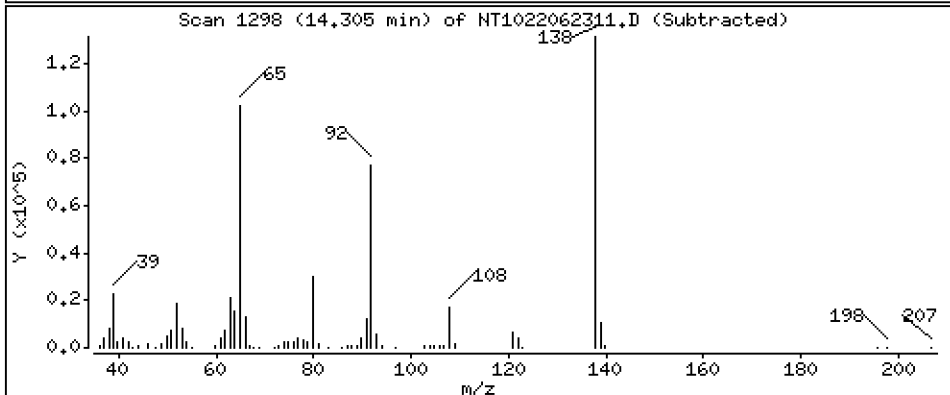
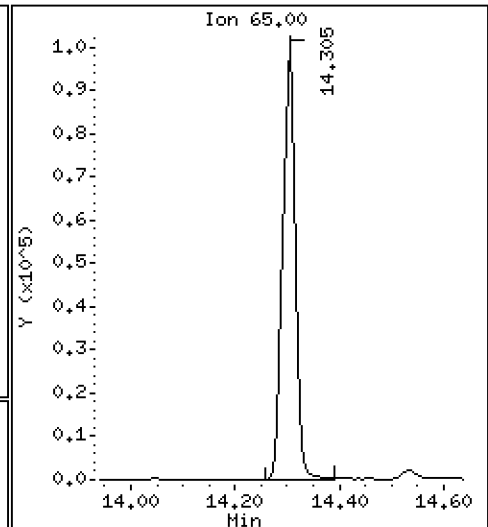
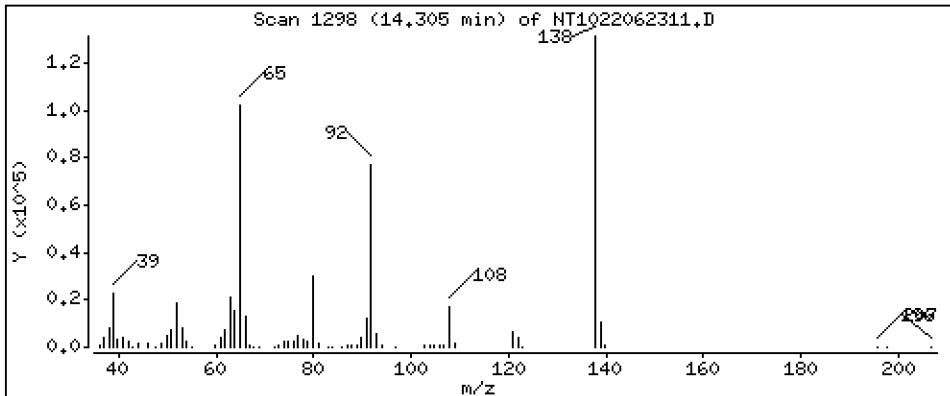
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 5,342 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

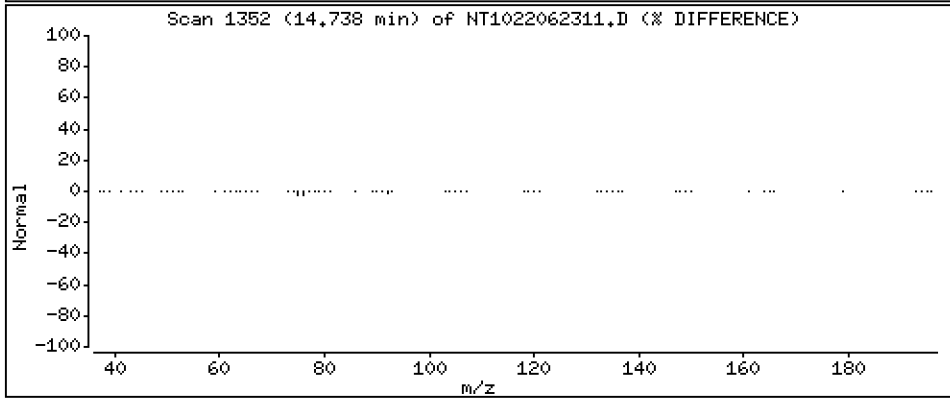
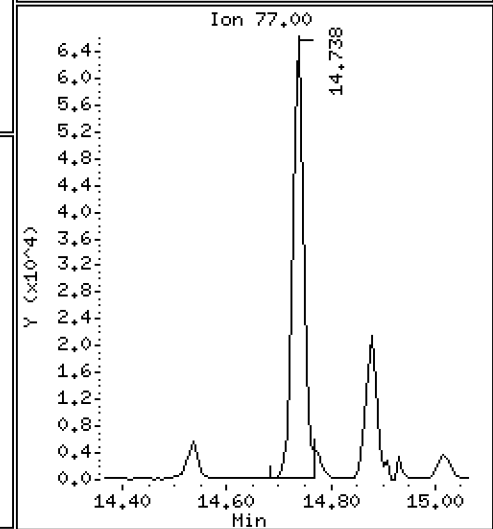
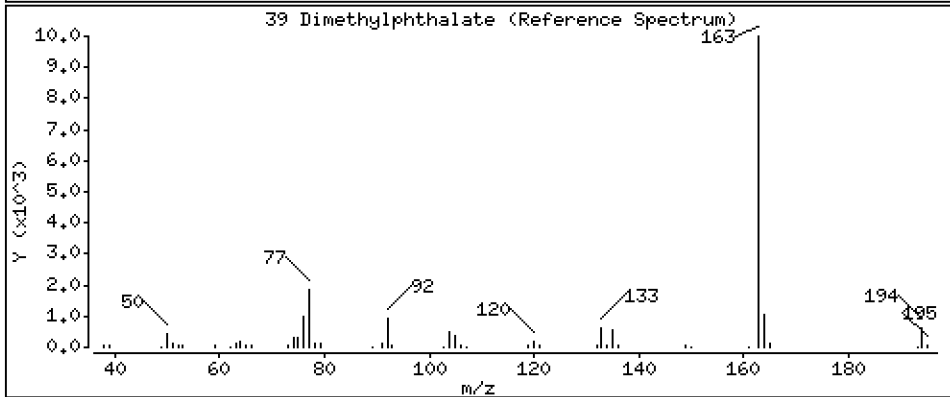
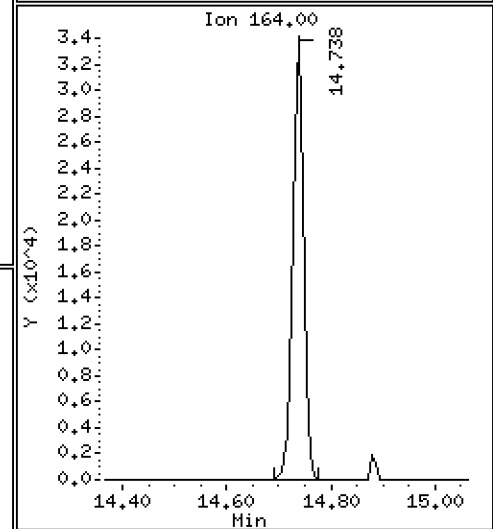
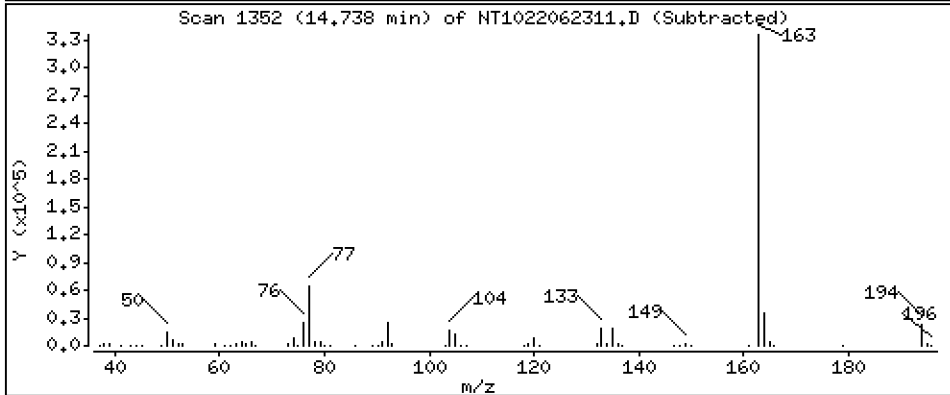
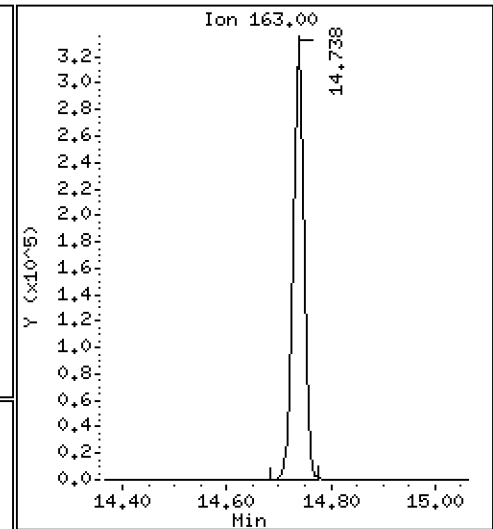
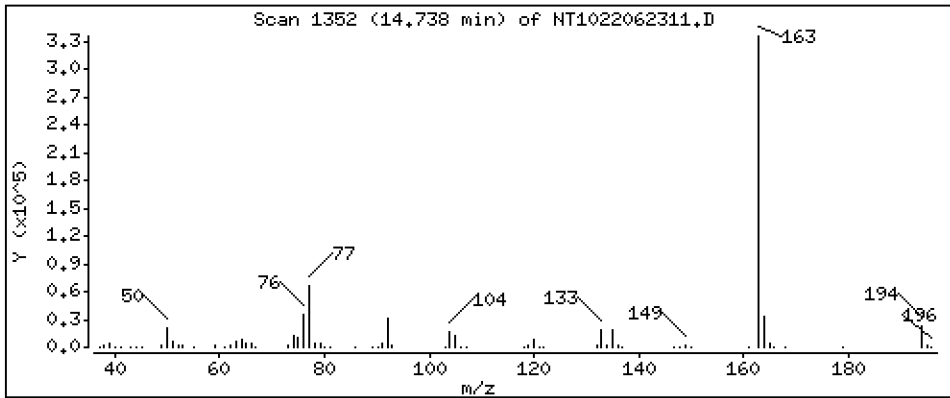
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,973 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

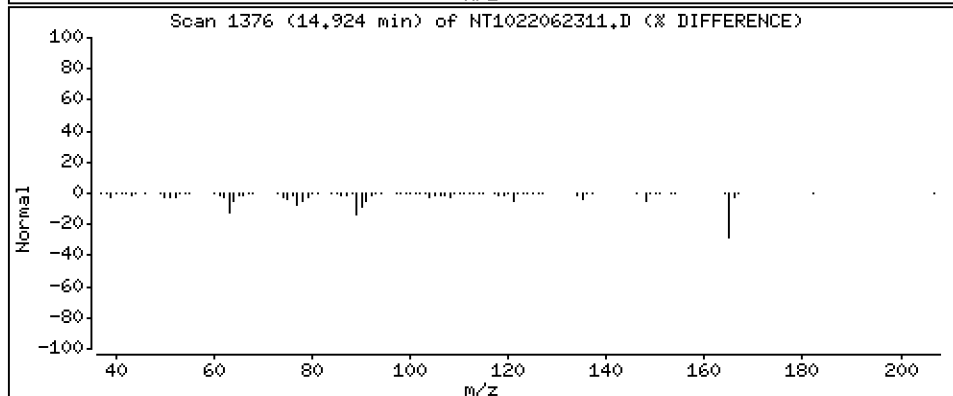
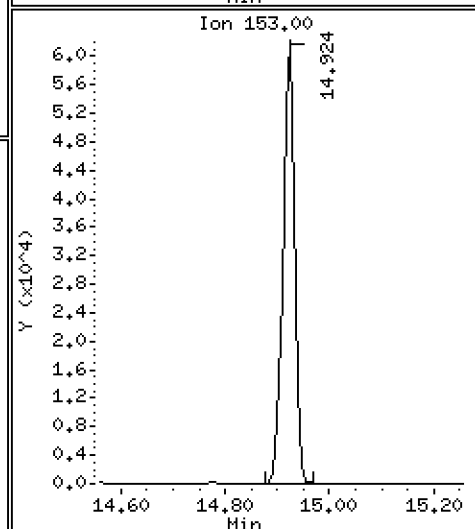
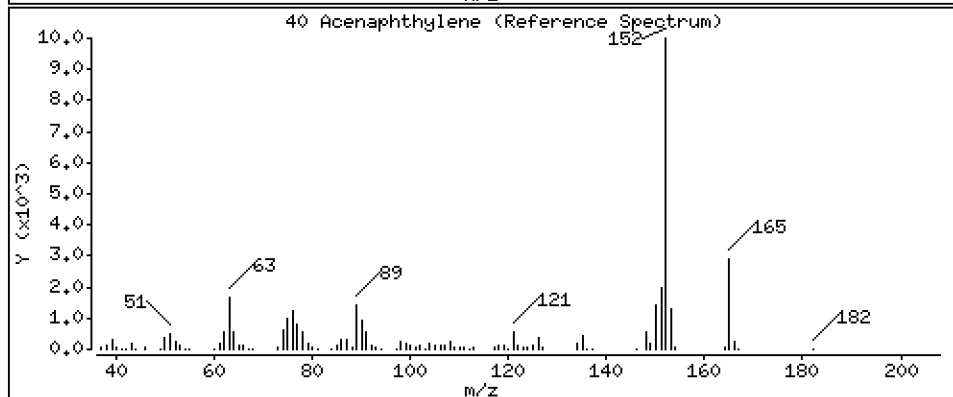
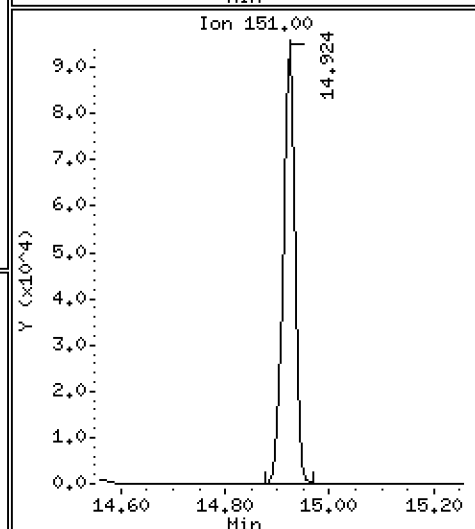
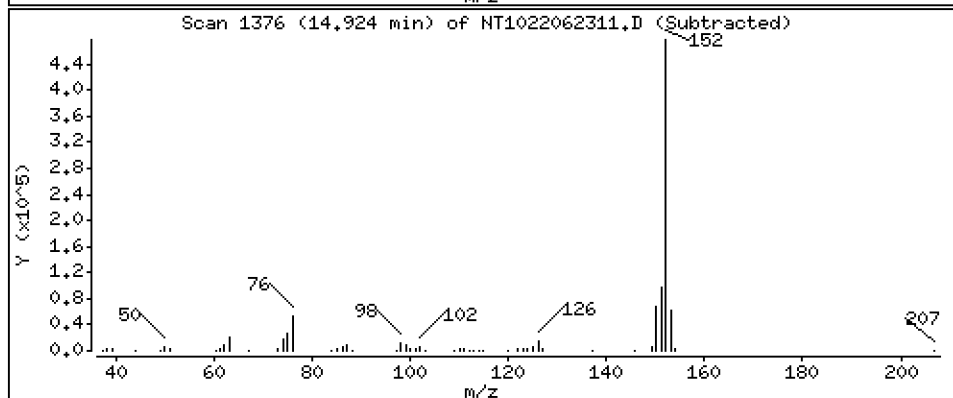
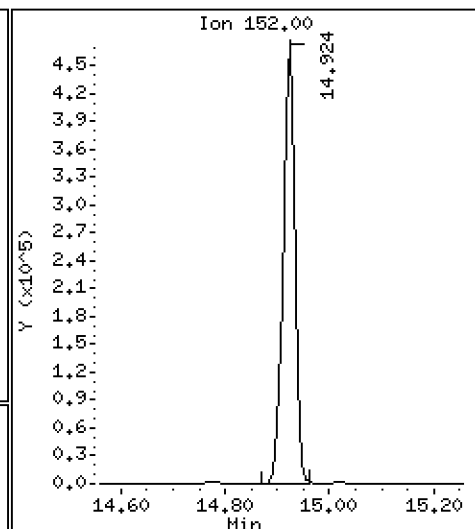
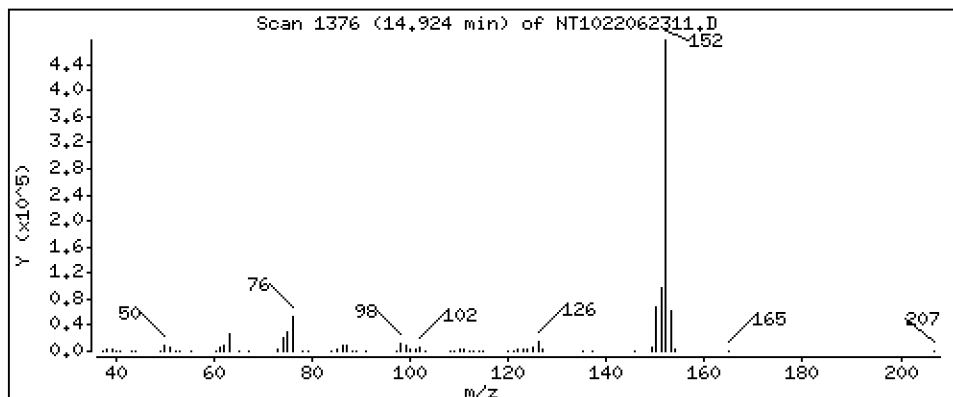
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,476 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

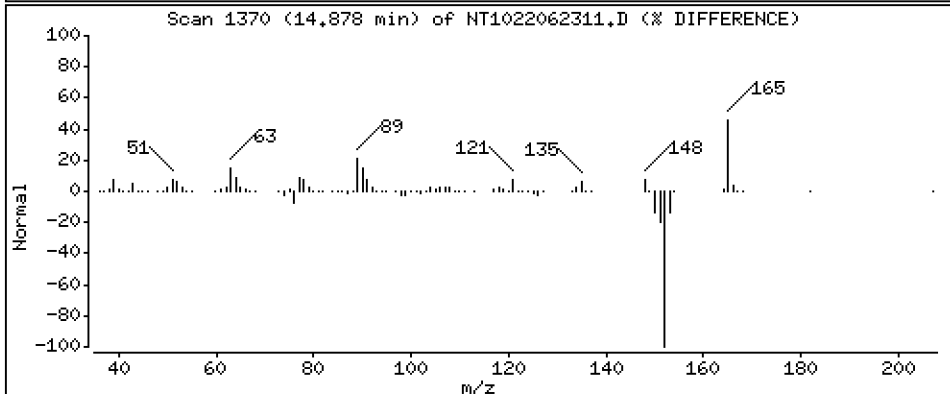
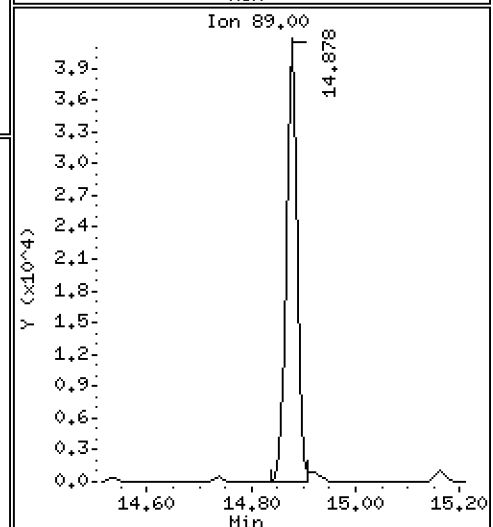
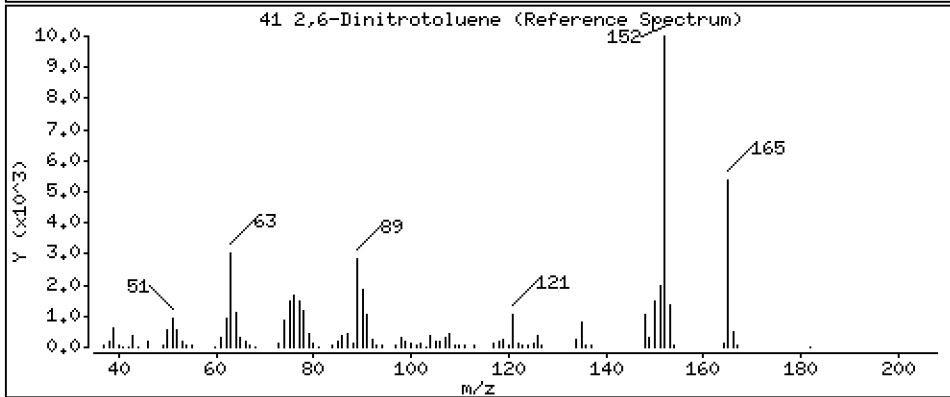
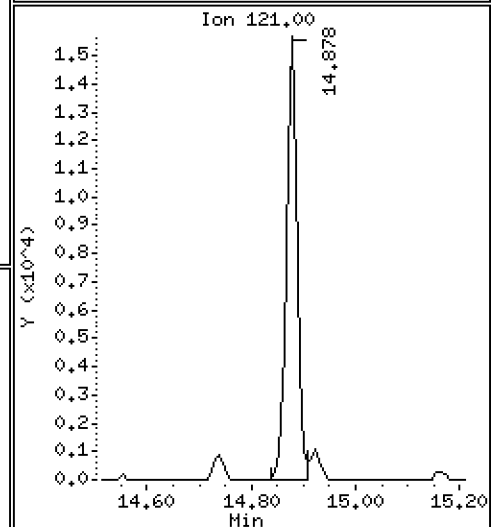
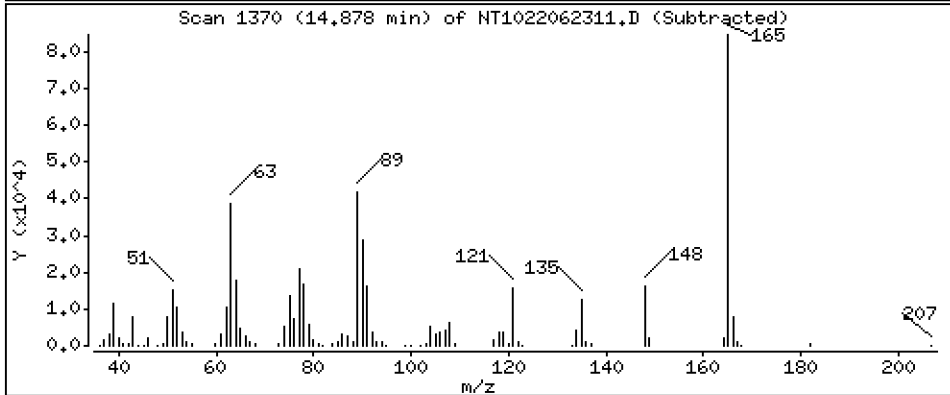
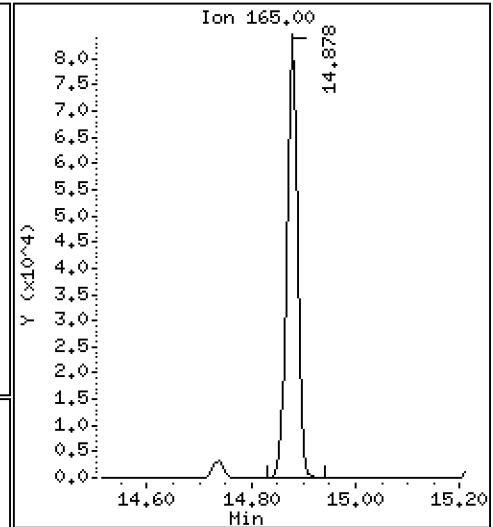
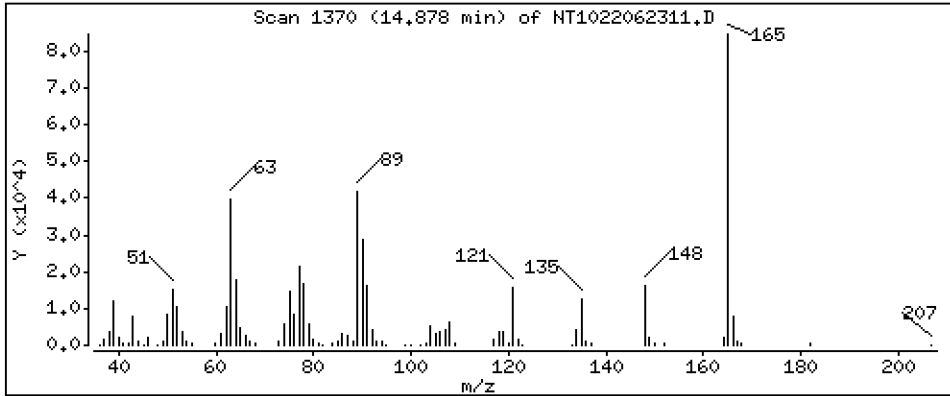
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,256 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

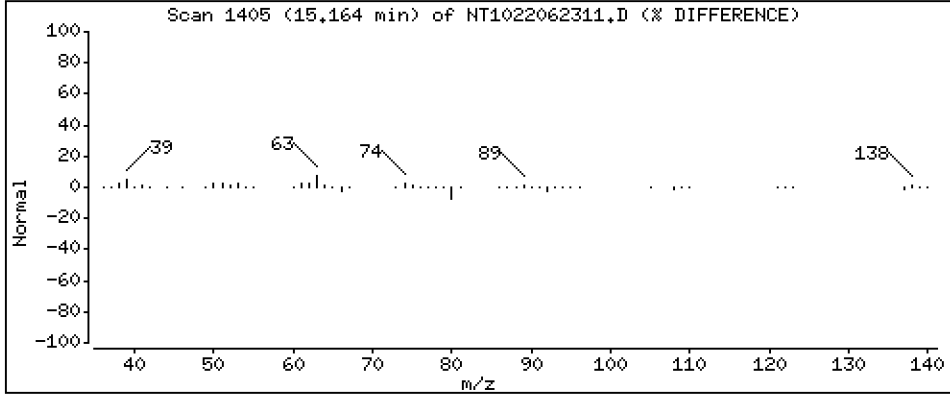
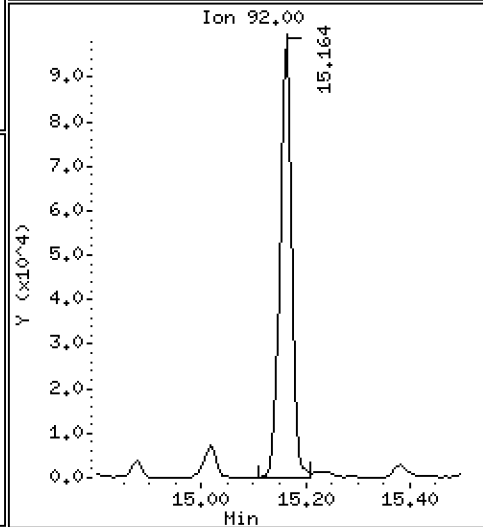
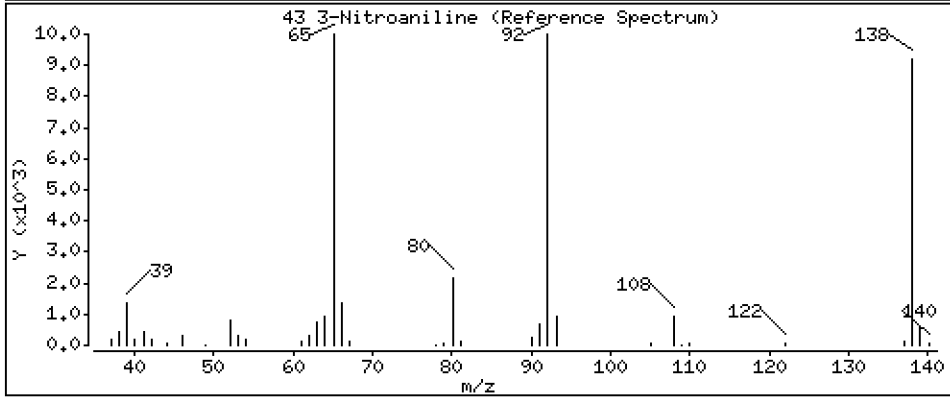
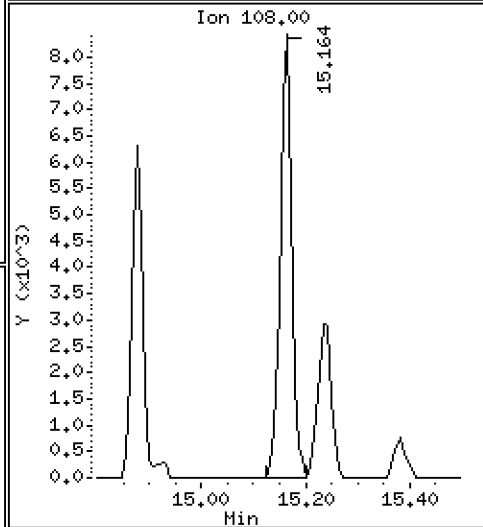
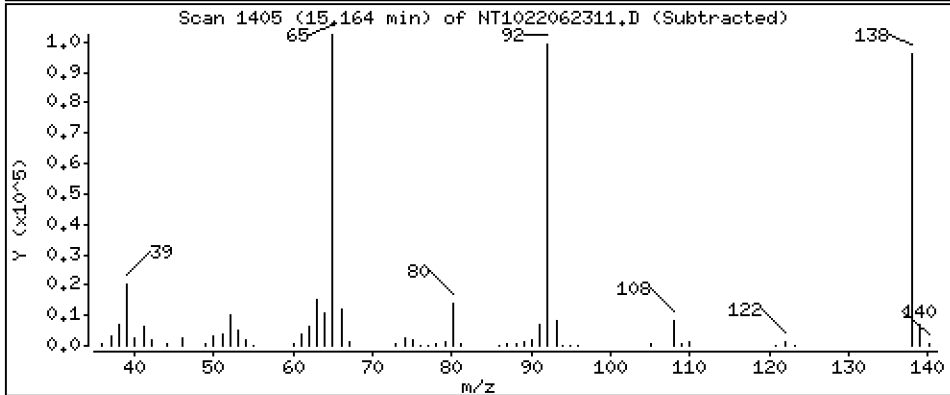
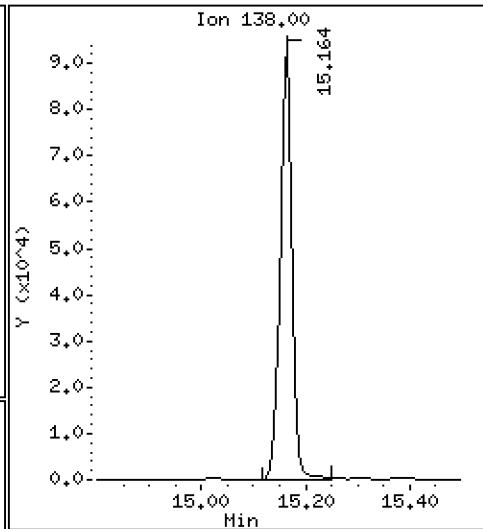
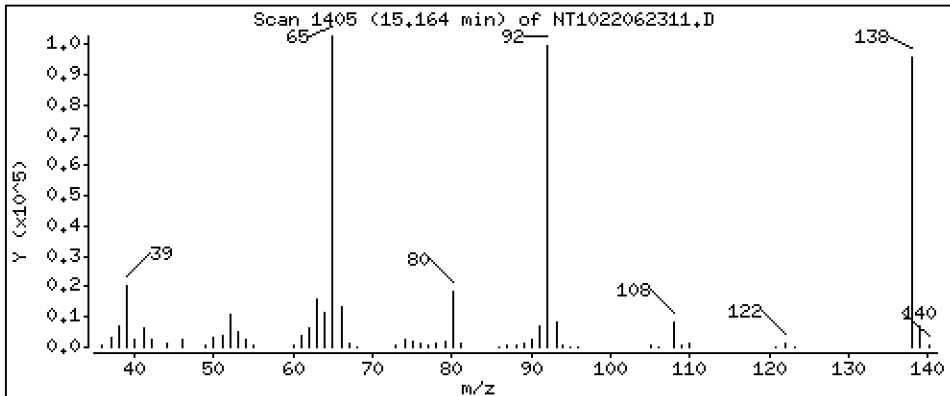
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 5,379 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

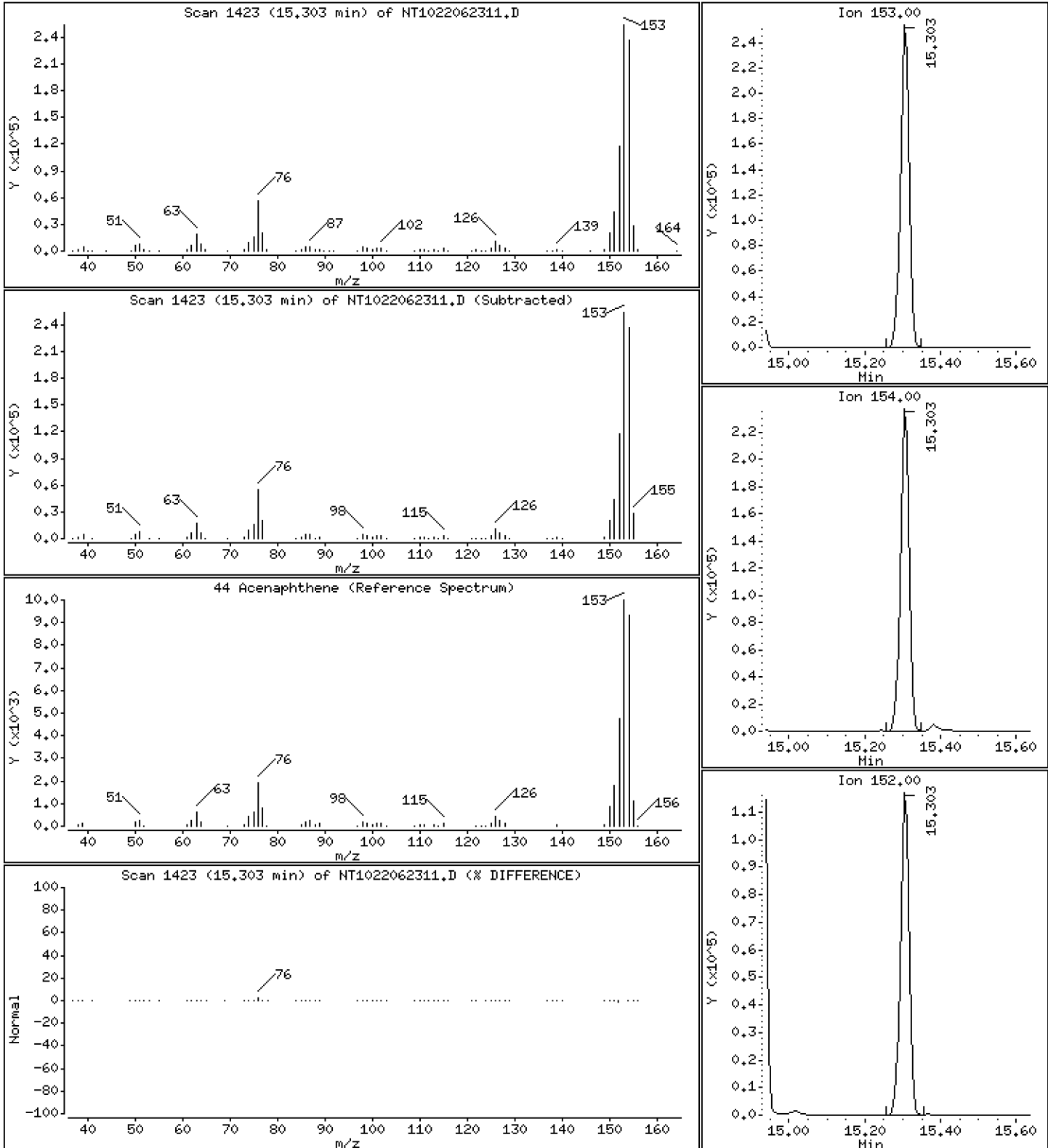
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,939 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

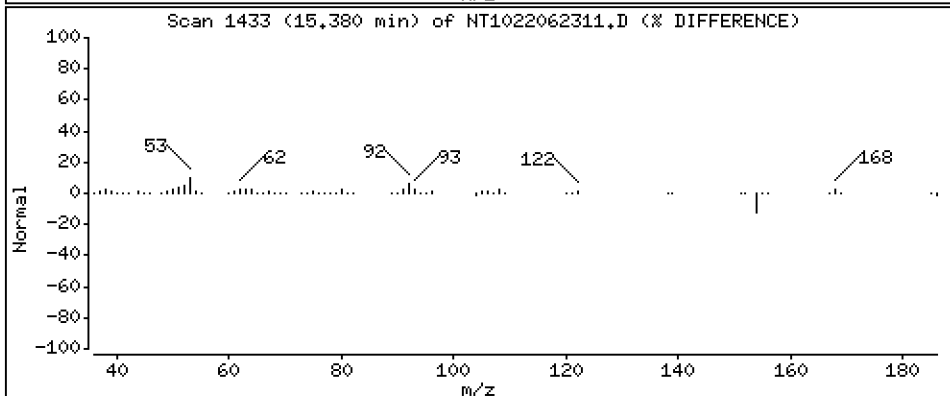
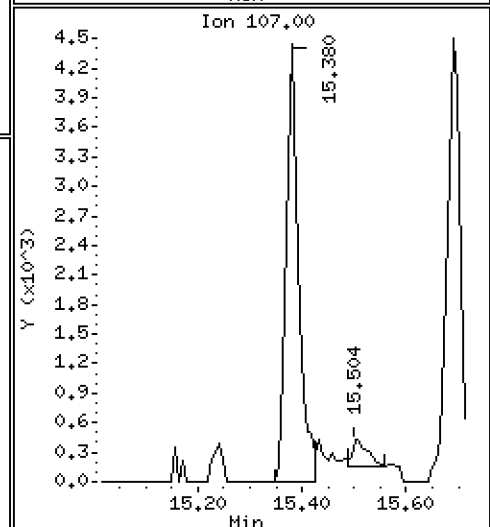
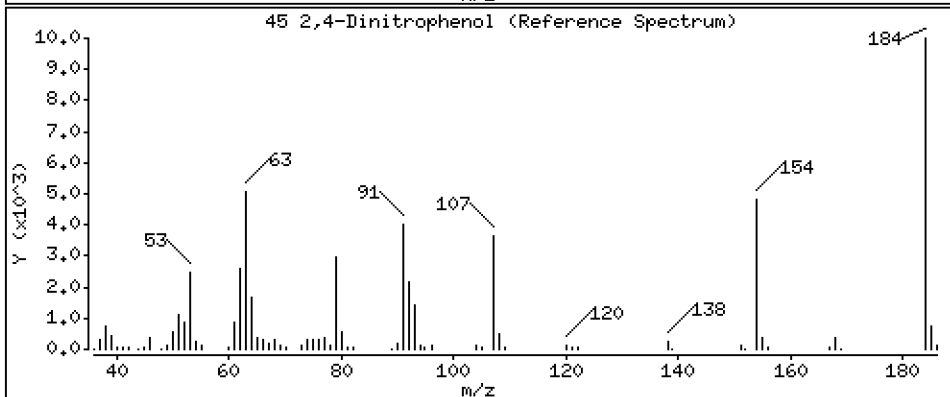
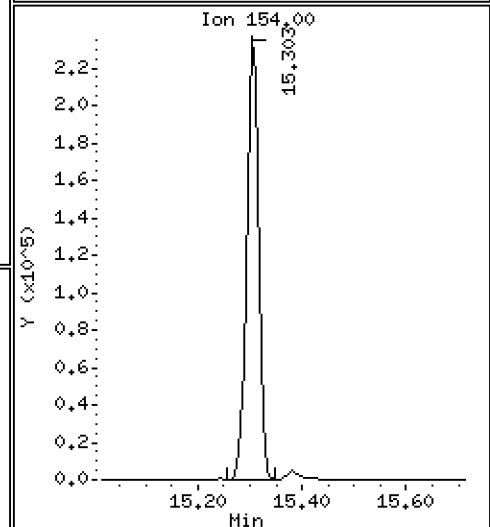
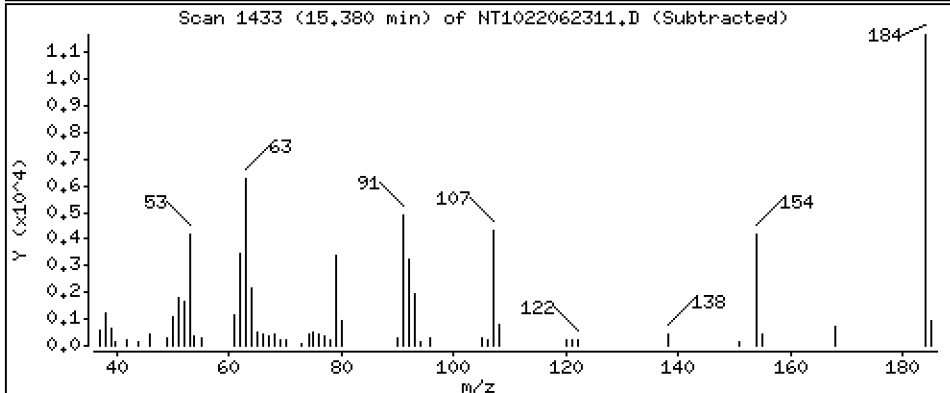
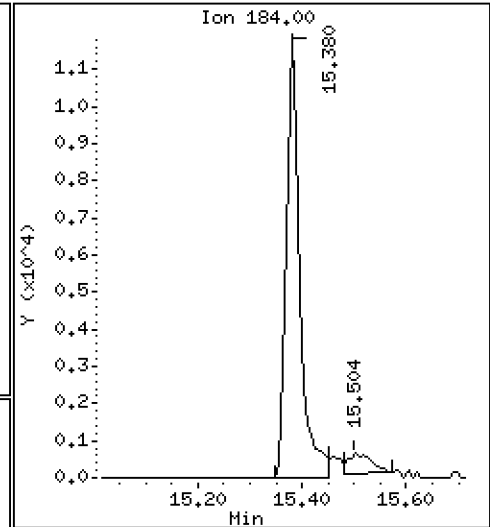
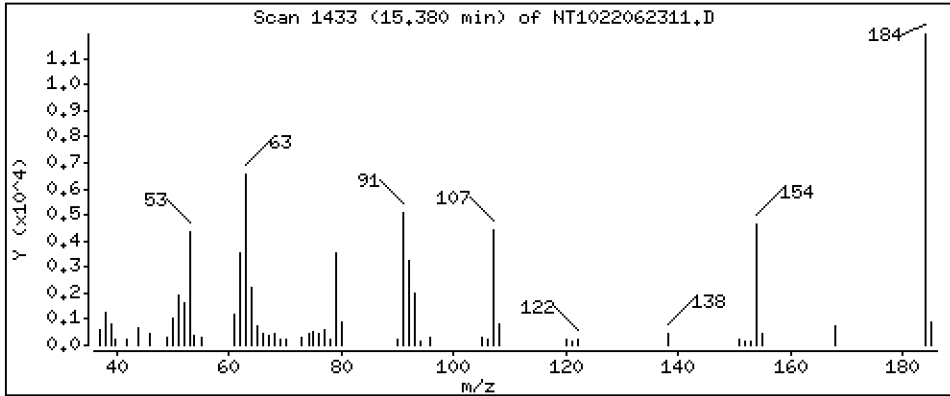
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 2,023 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

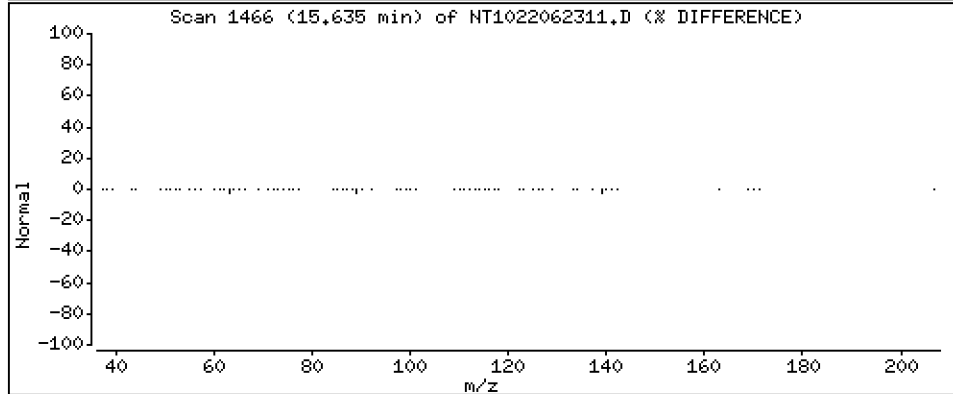
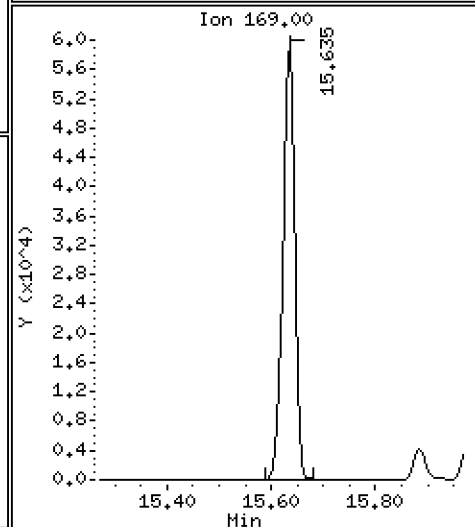
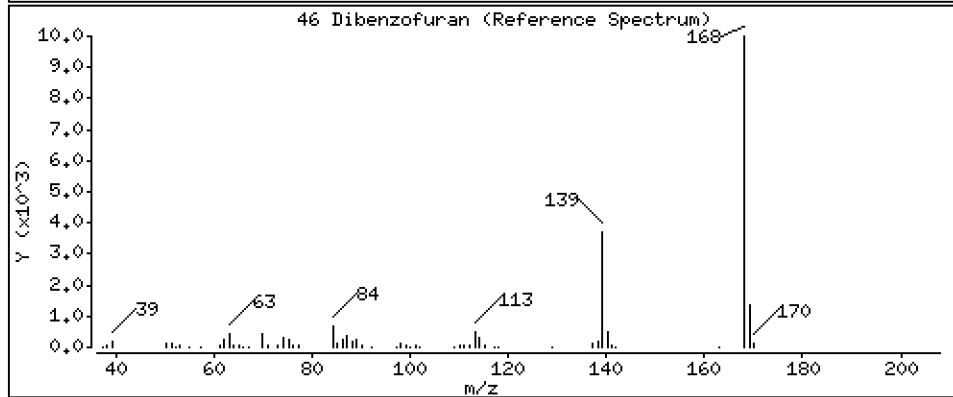
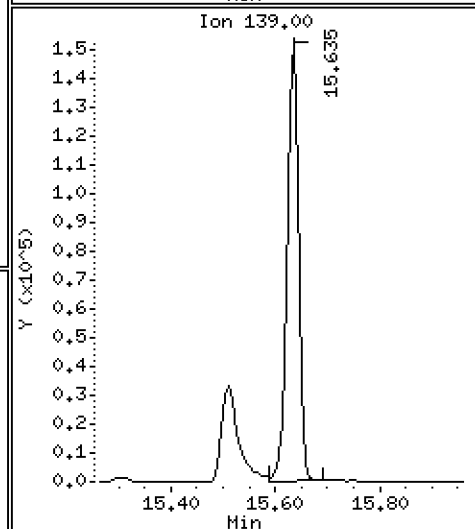
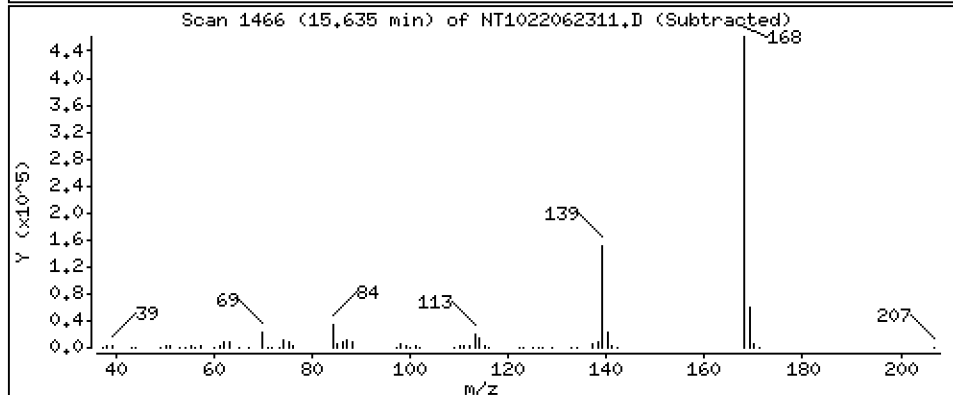
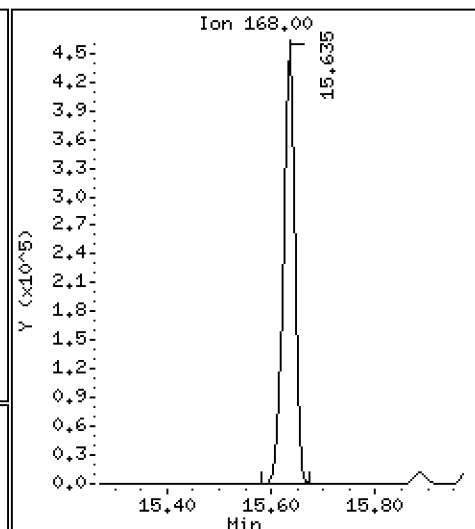
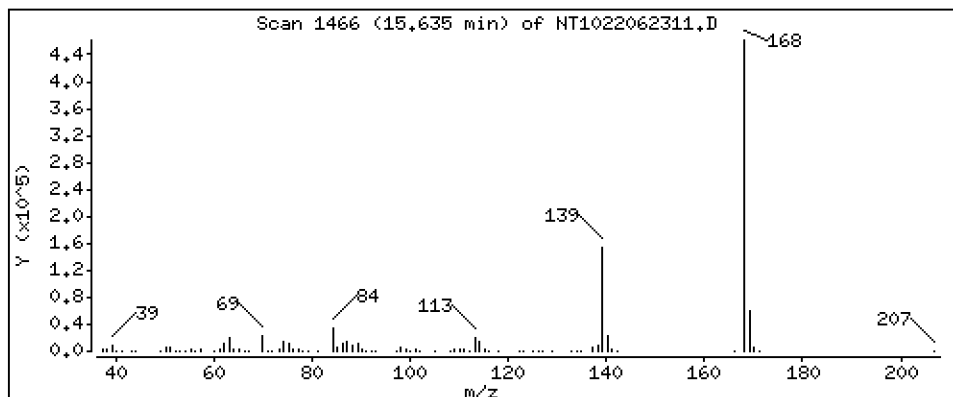
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 5,340 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

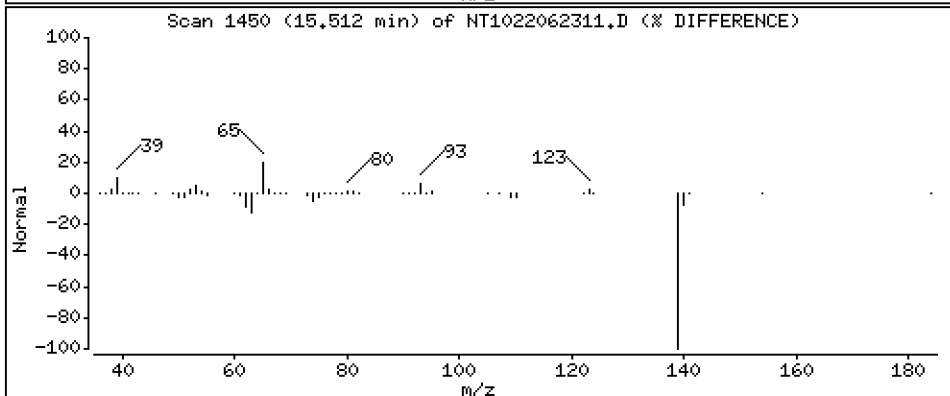
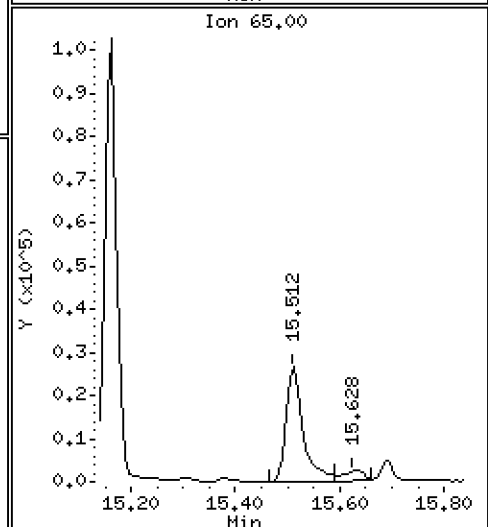
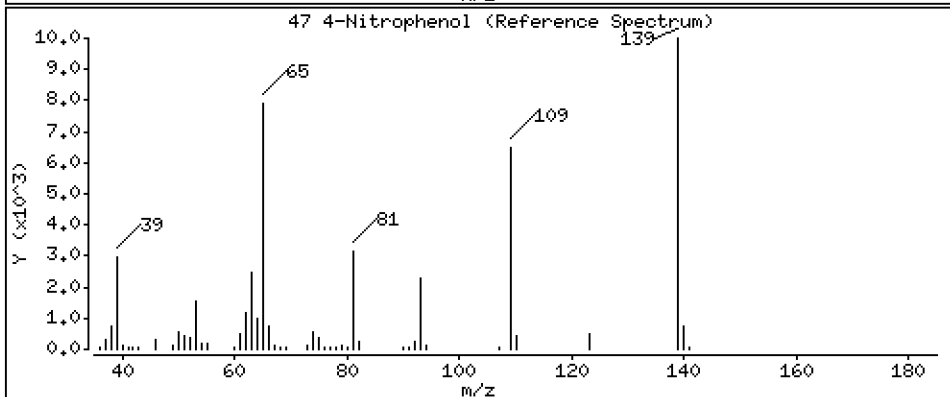
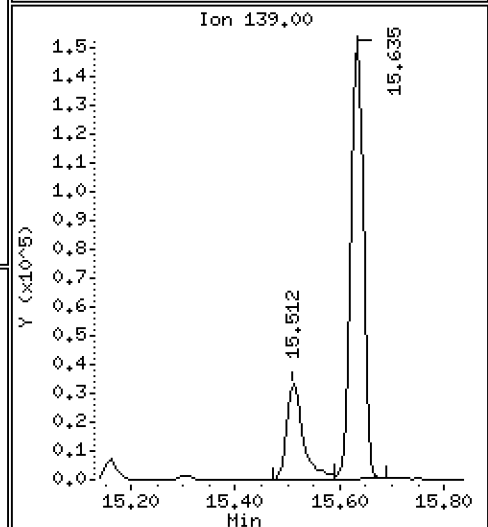
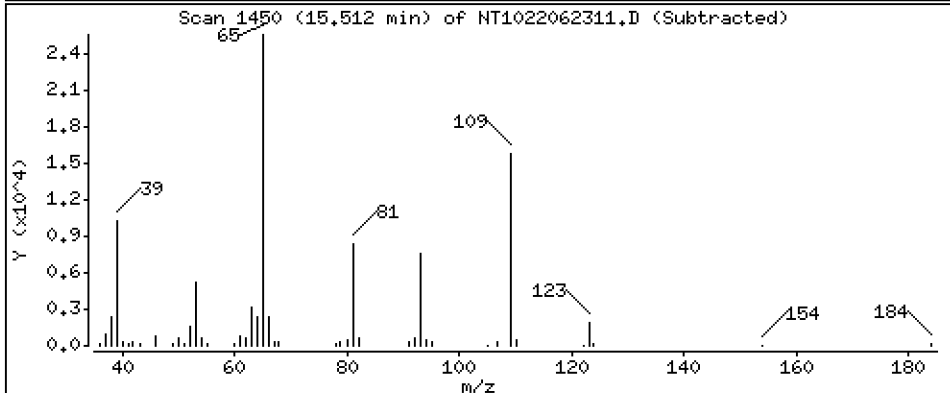
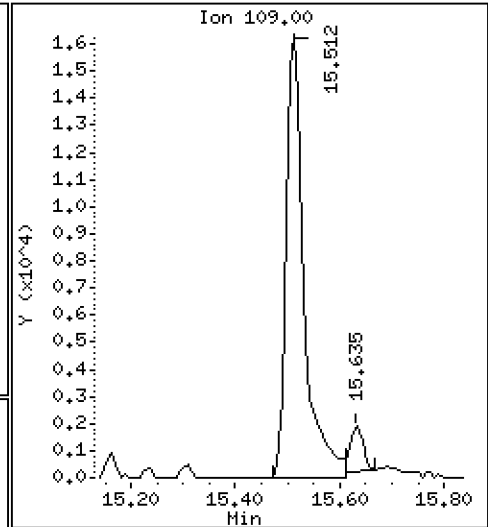
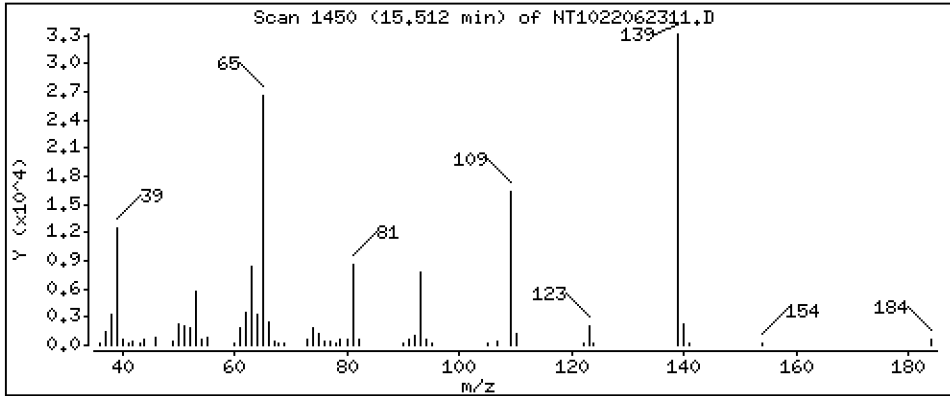
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 4,435 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

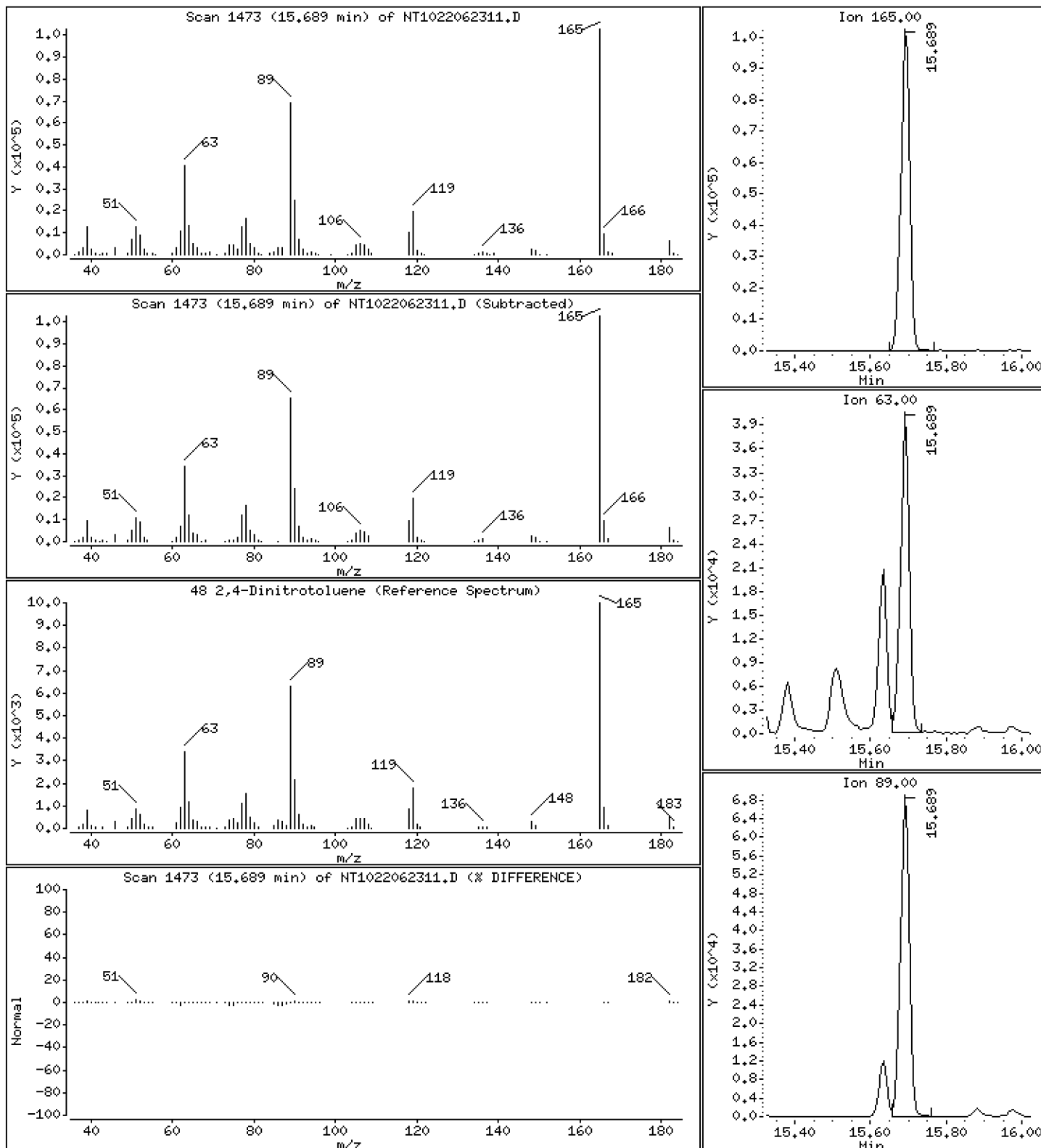
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 5,308 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

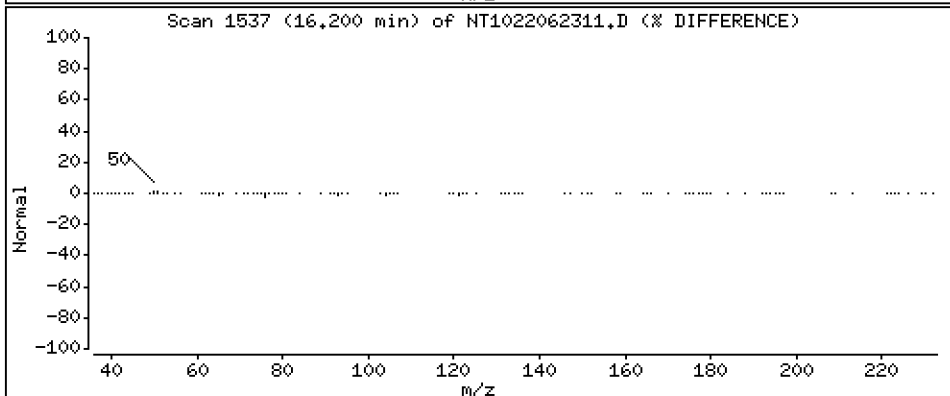
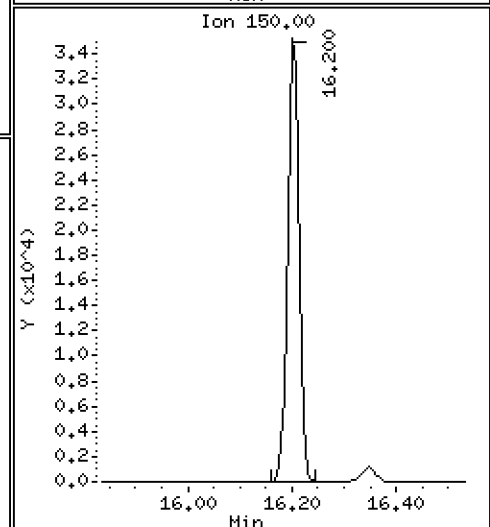
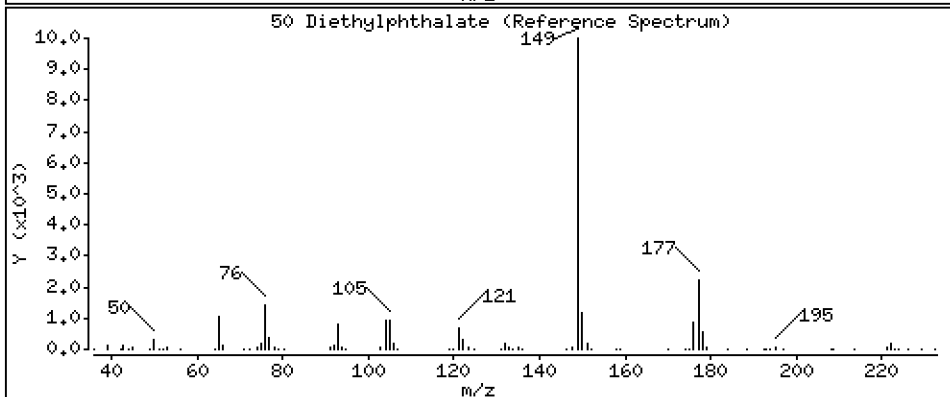
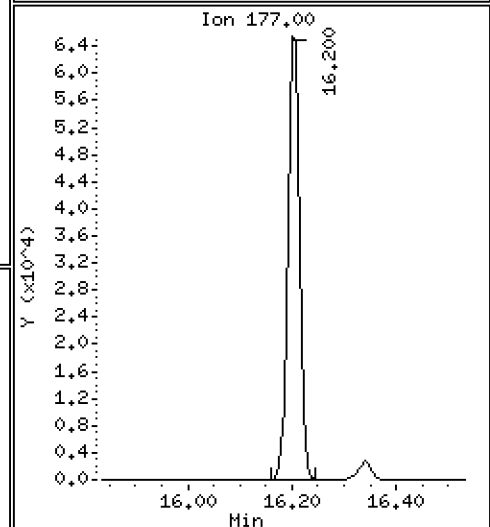
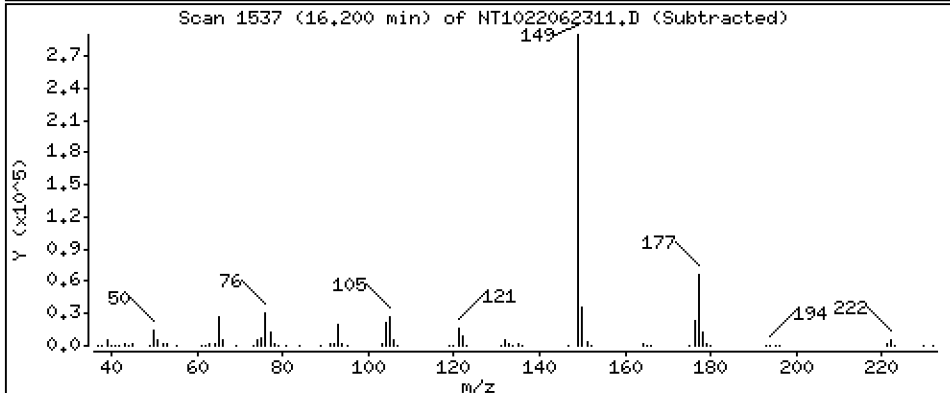
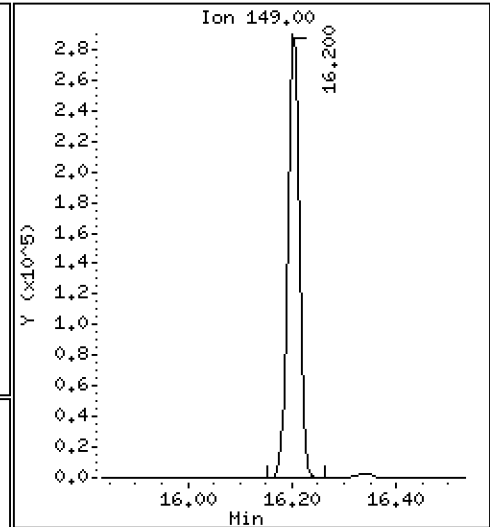
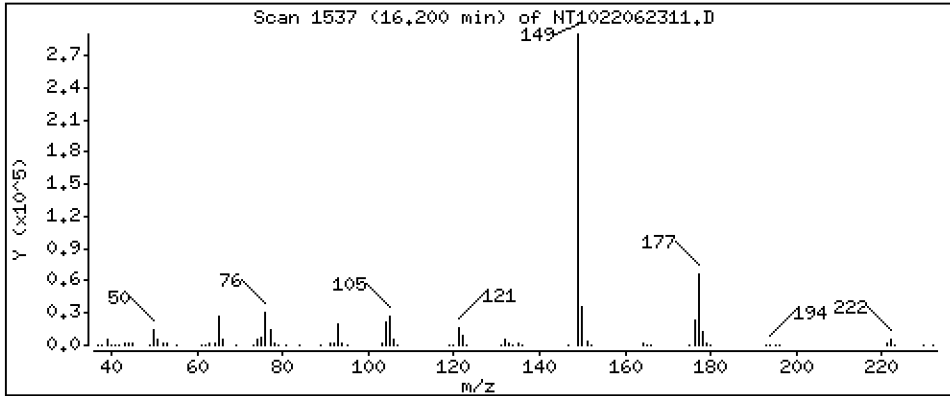
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,372 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

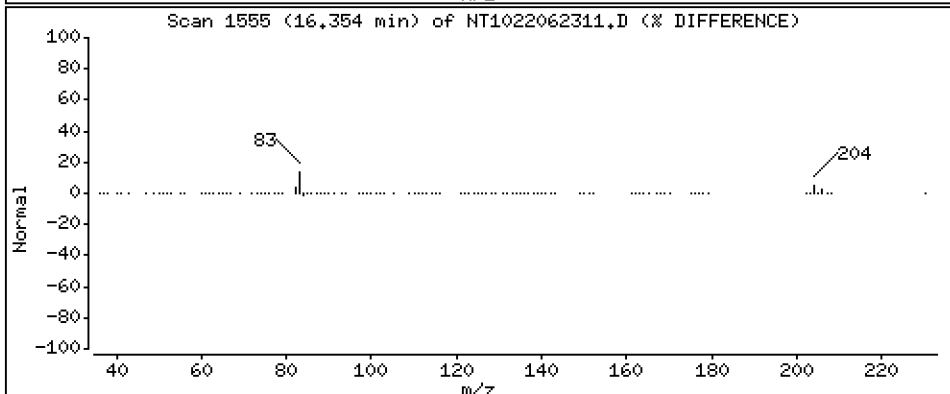
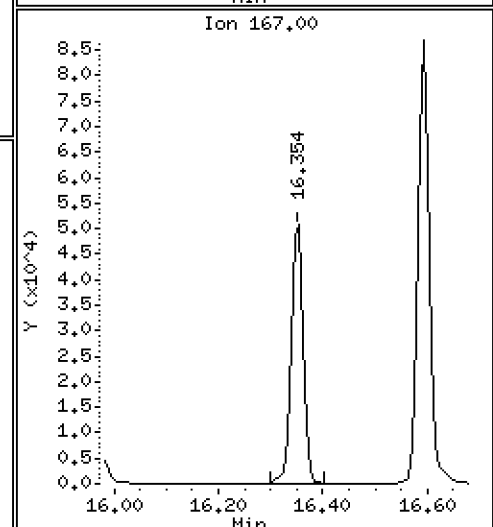
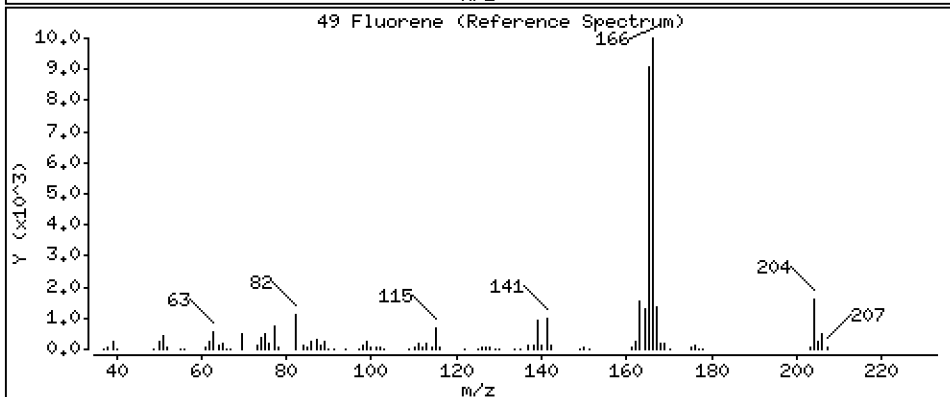
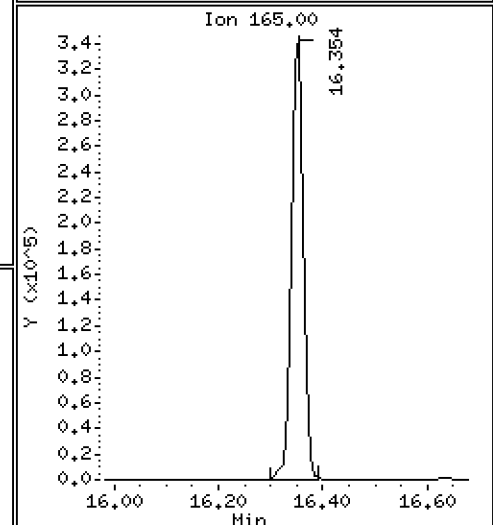
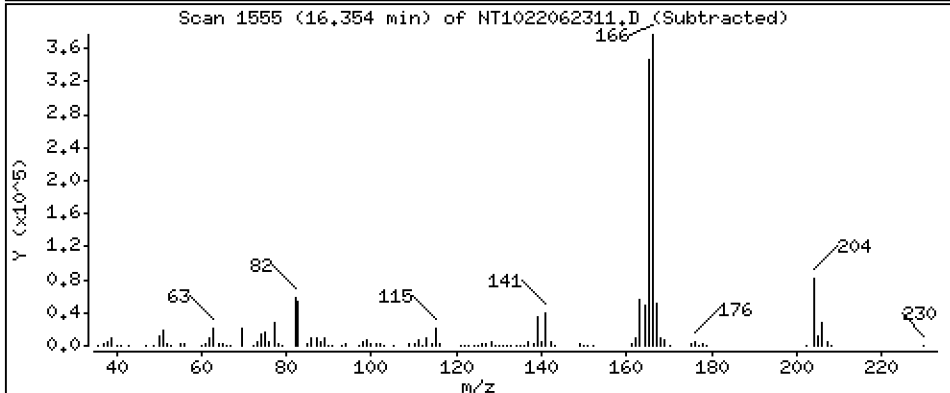
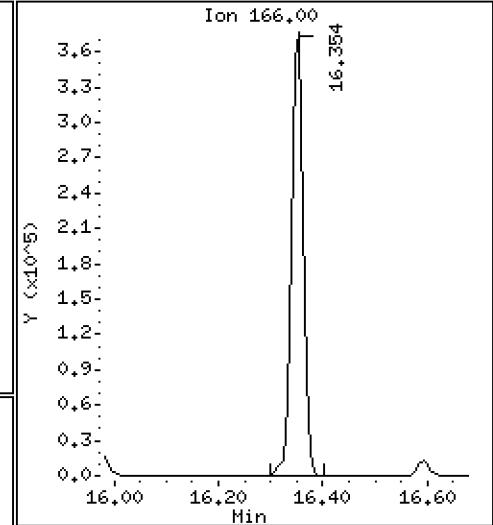
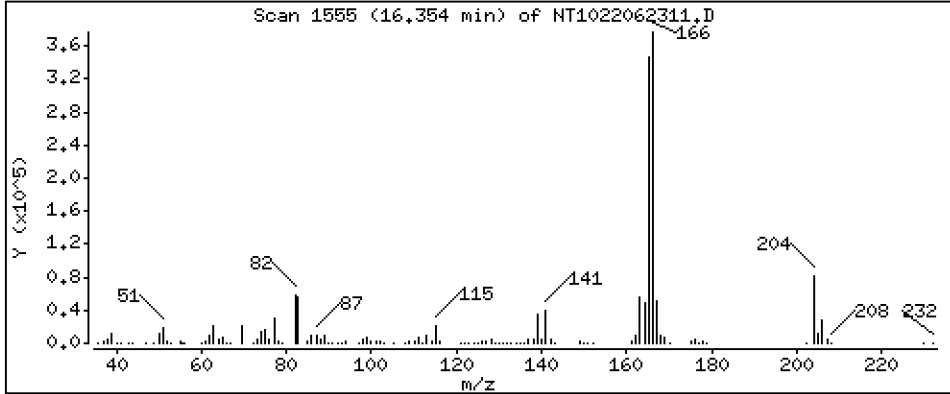
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,594 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

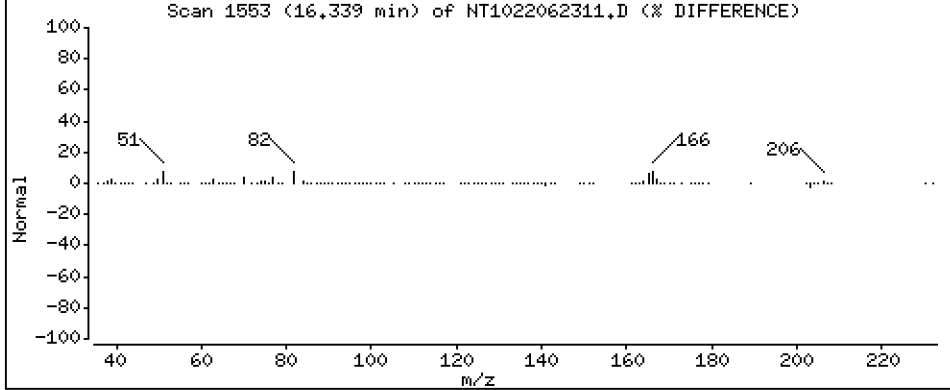
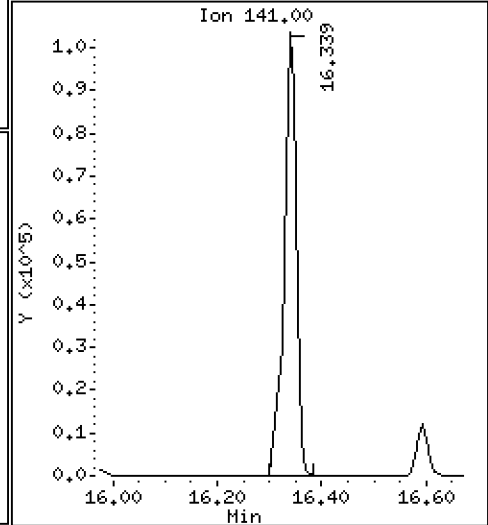
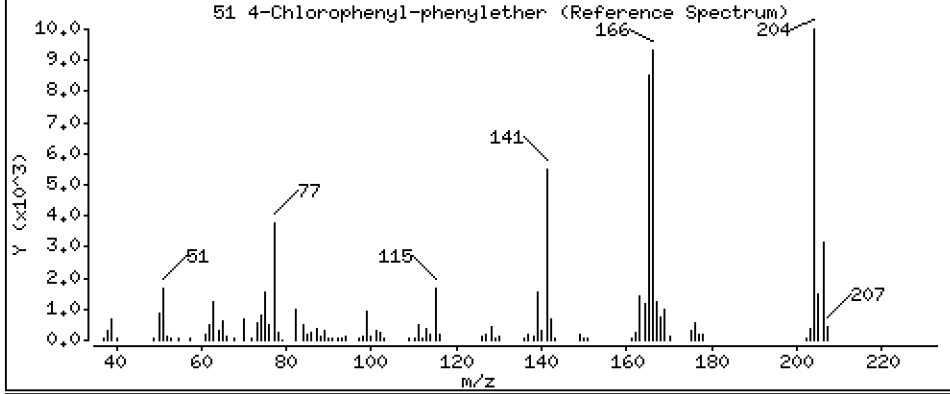
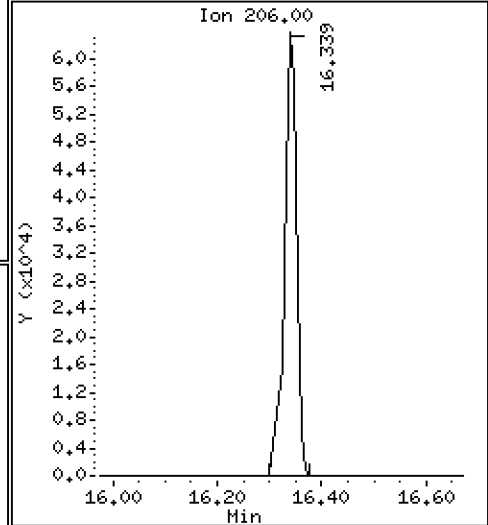
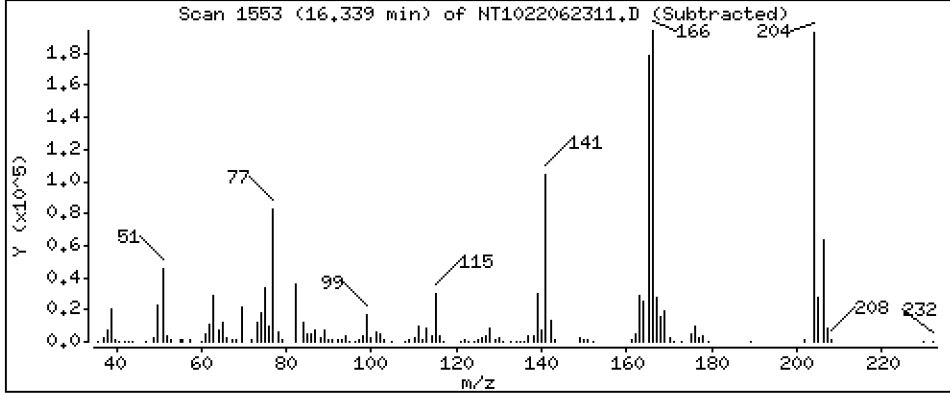
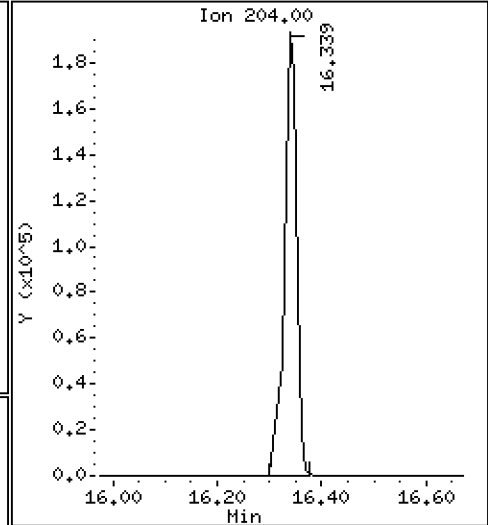
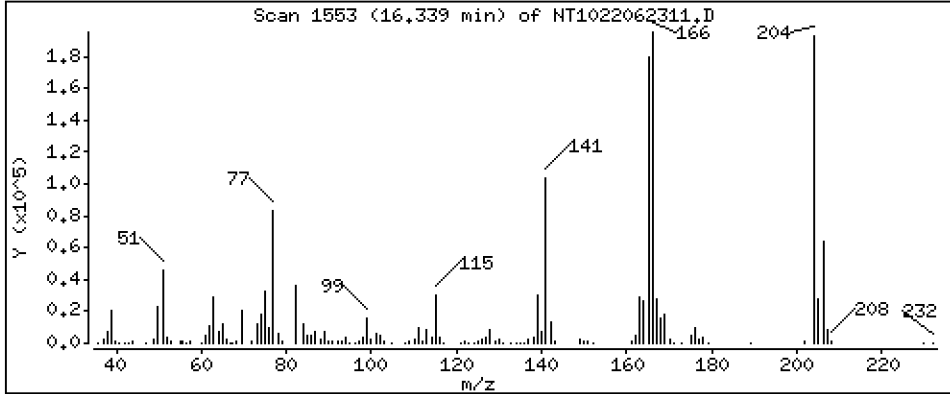
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 5,407 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

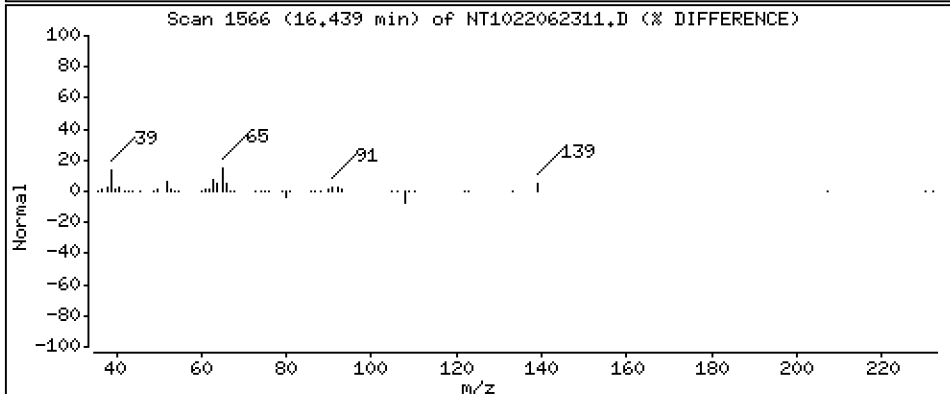
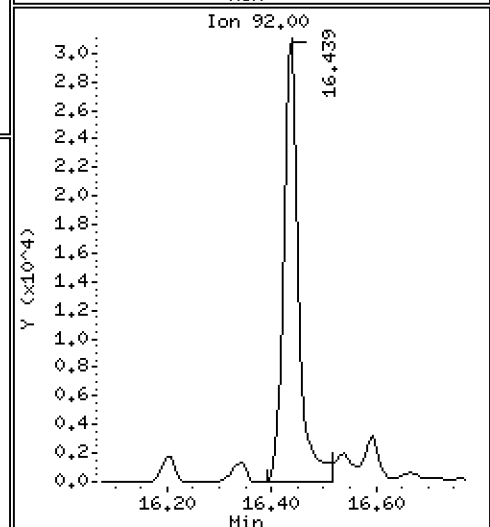
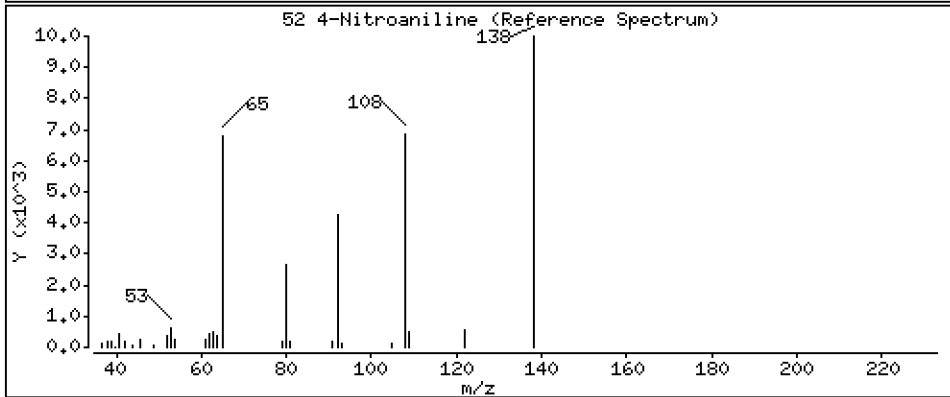
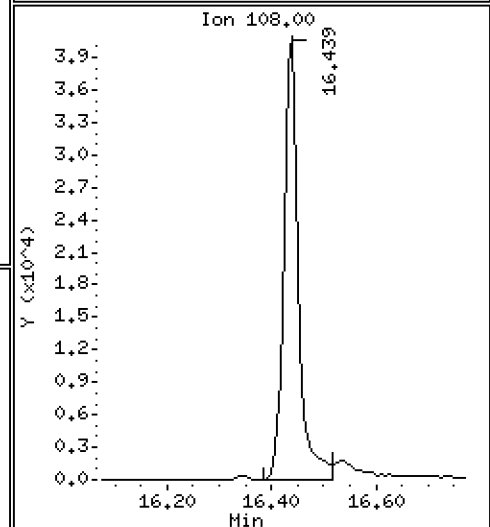
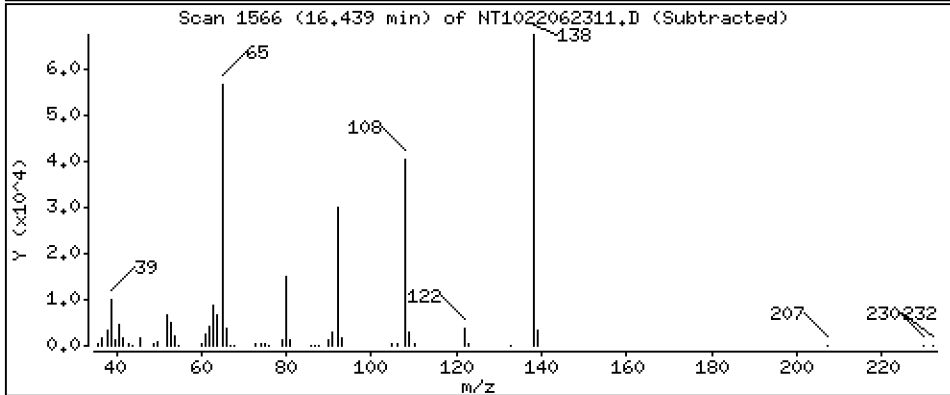
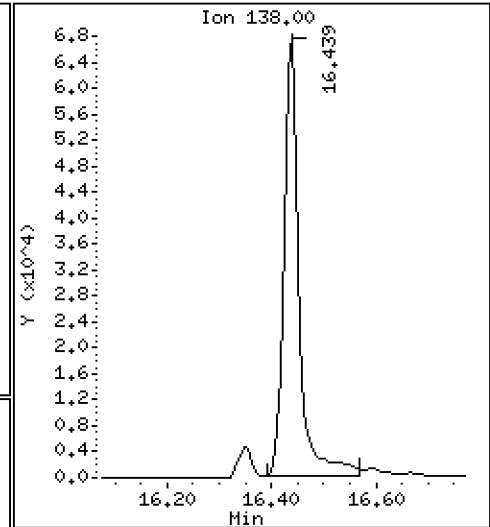
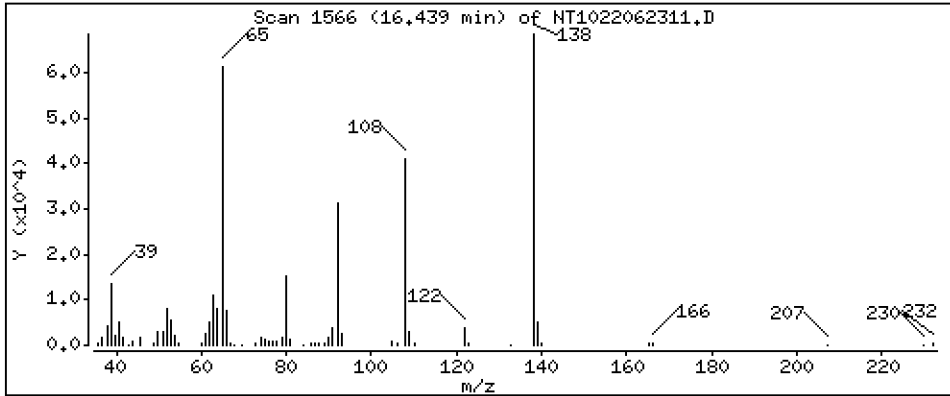
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

52 4-Nitroaniline

Concentration: 5.094 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

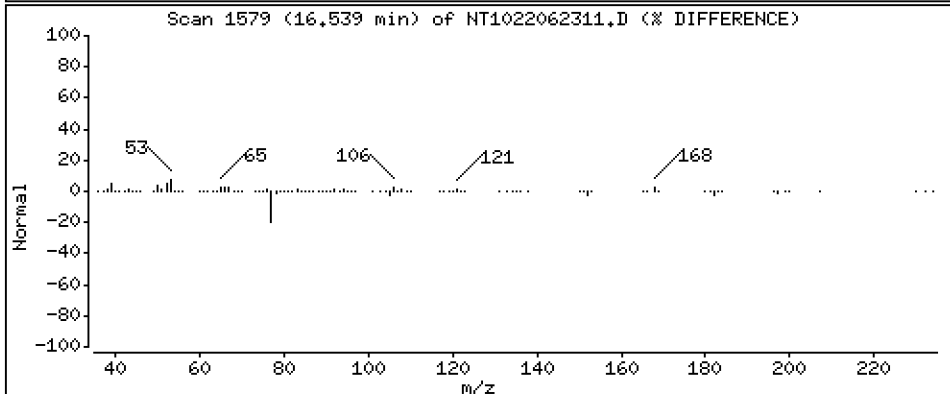
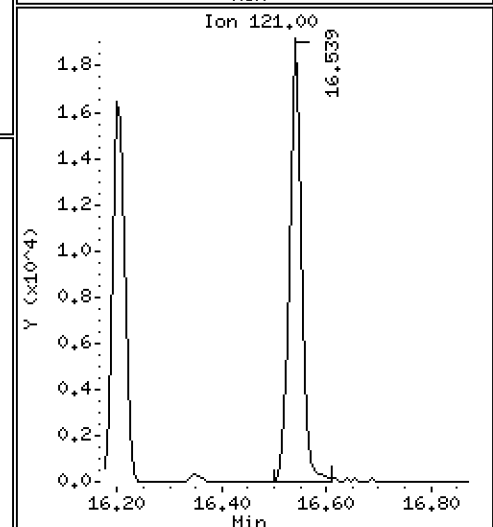
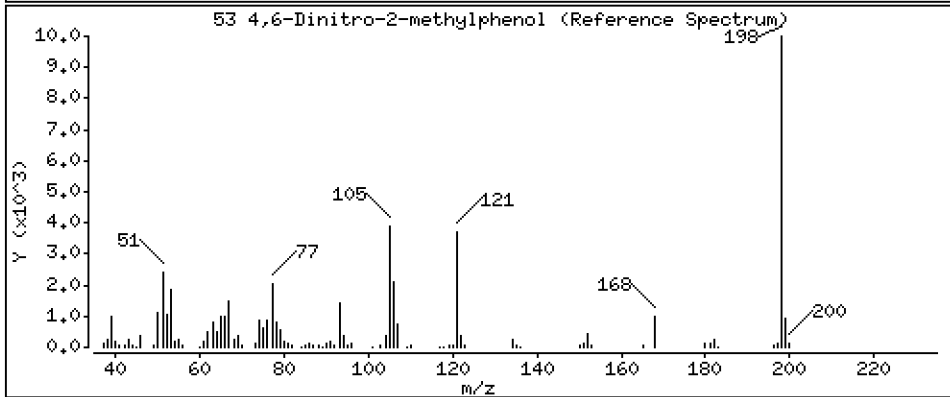
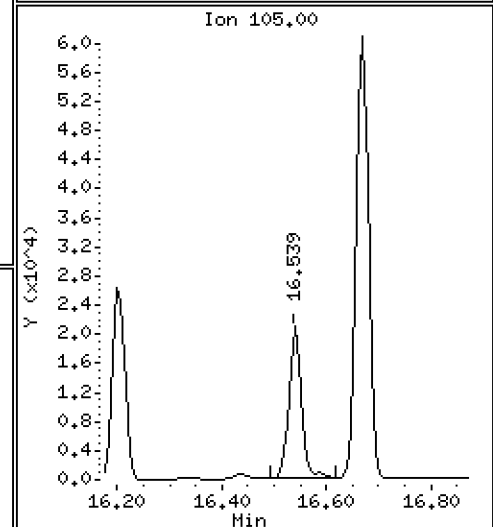
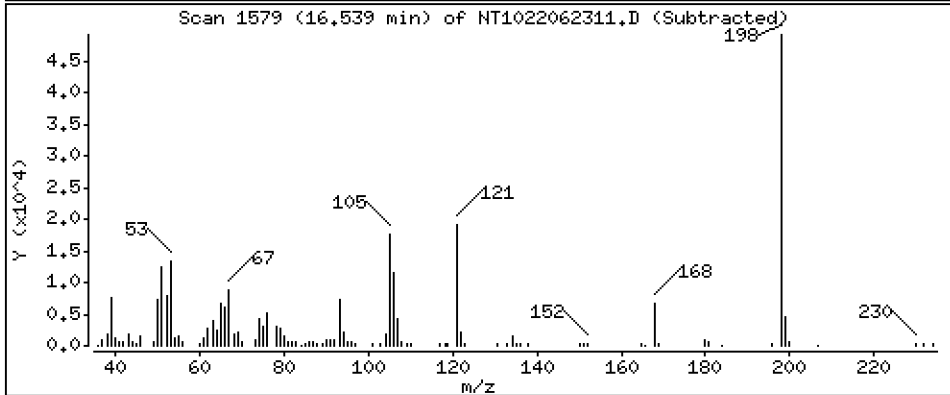
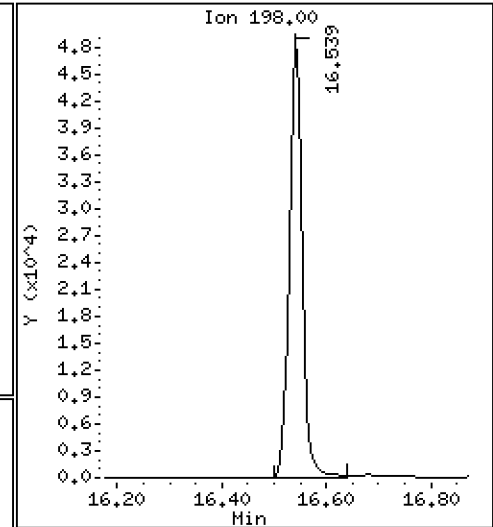
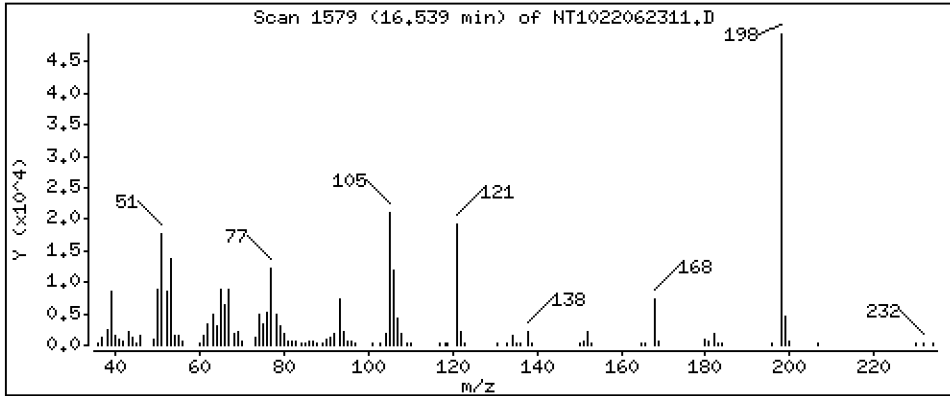
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 4,314 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

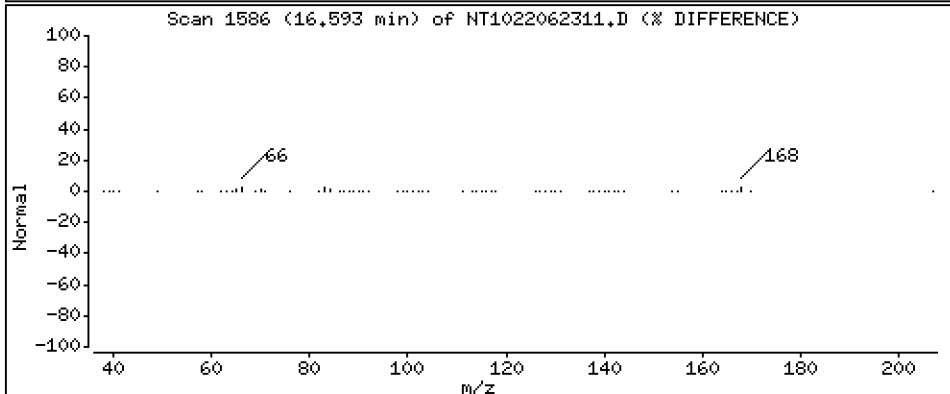
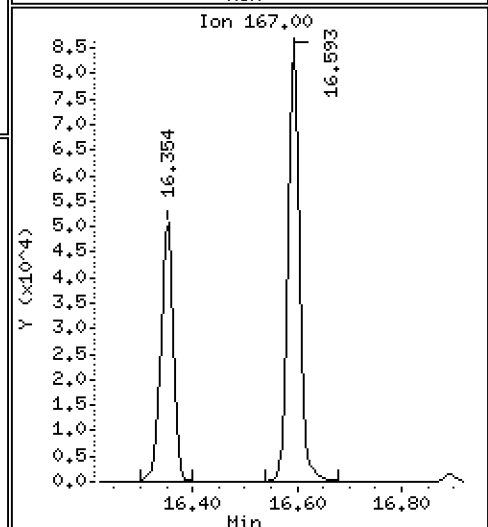
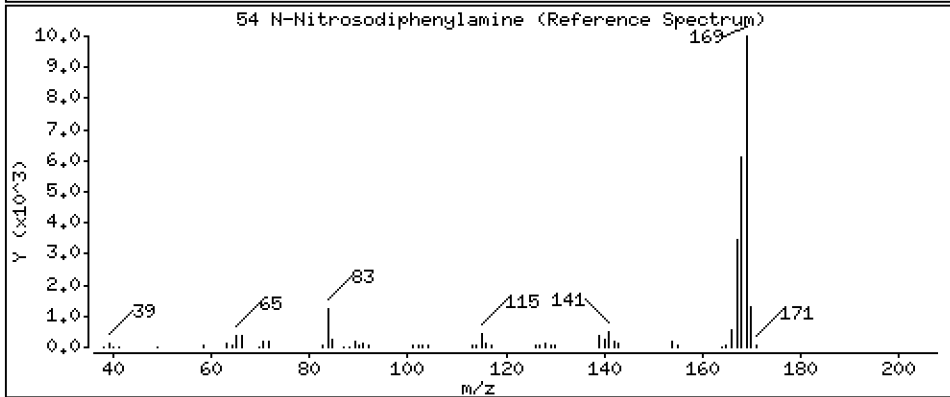
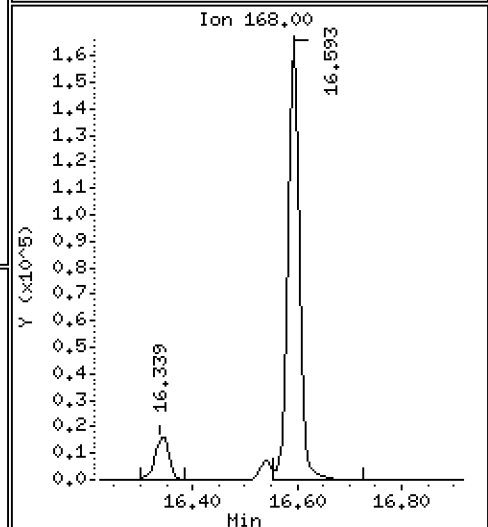
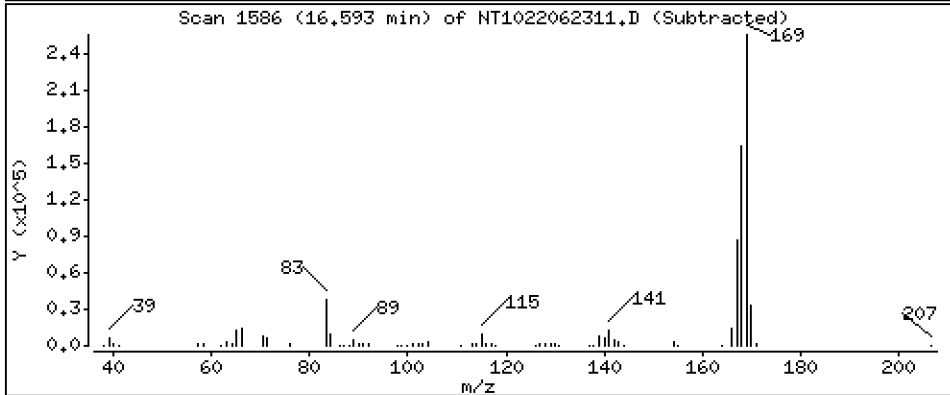
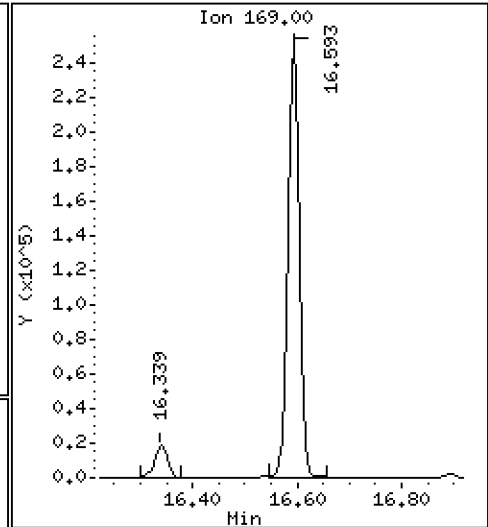
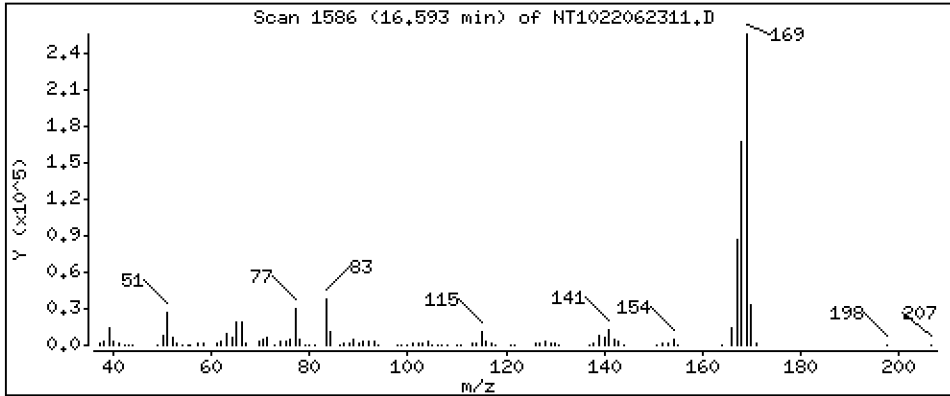
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,983 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

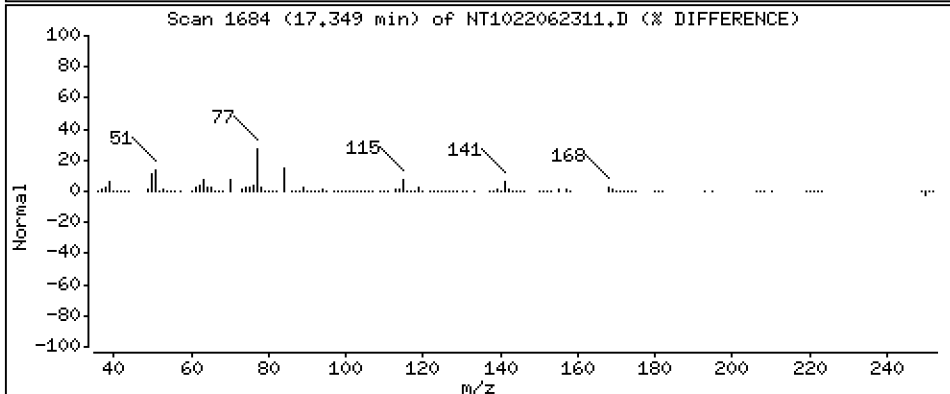
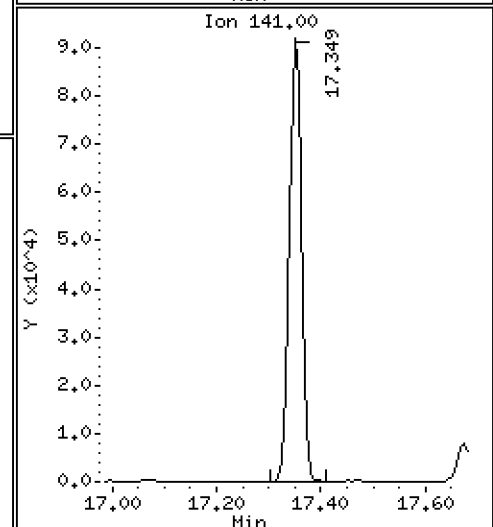
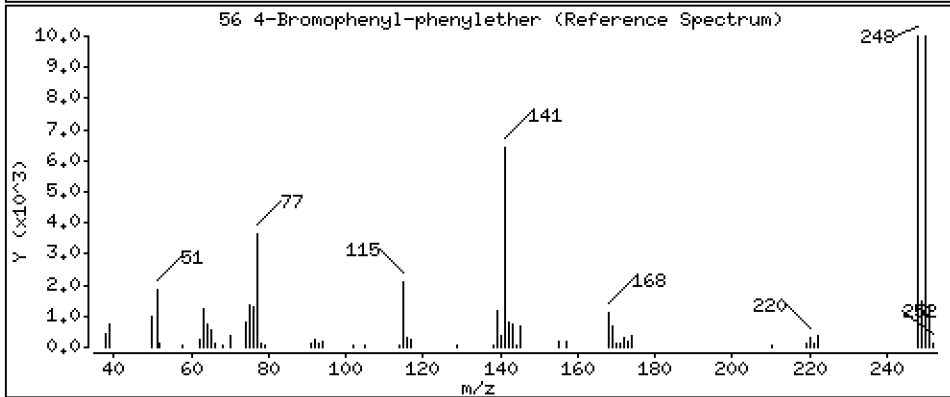
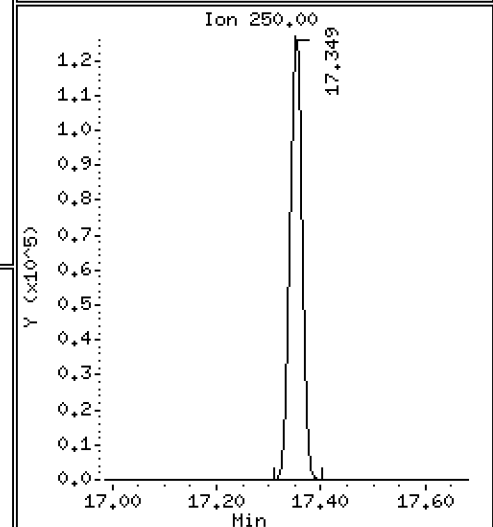
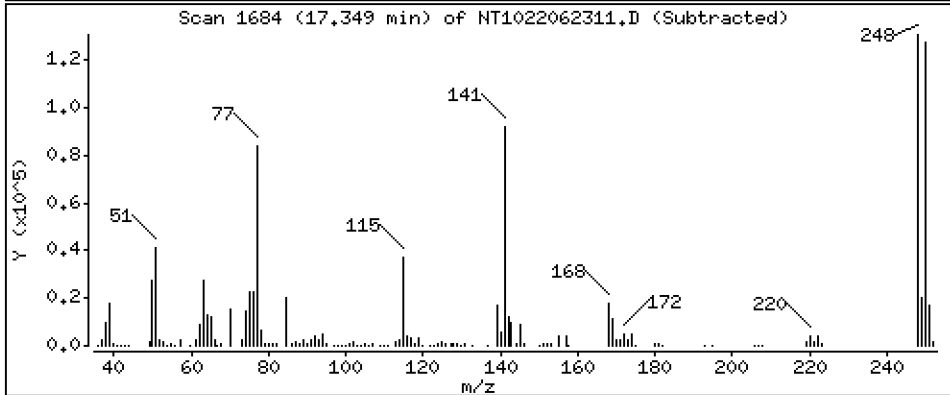
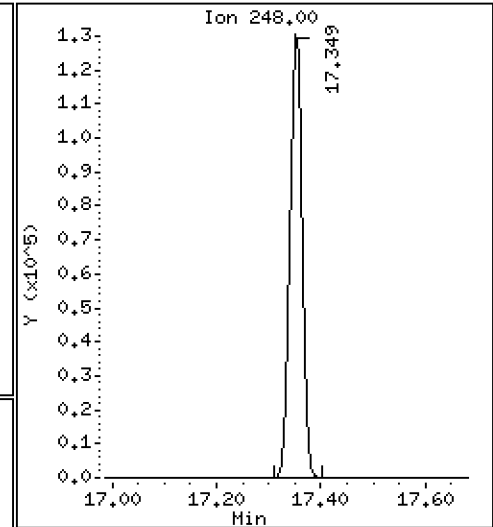
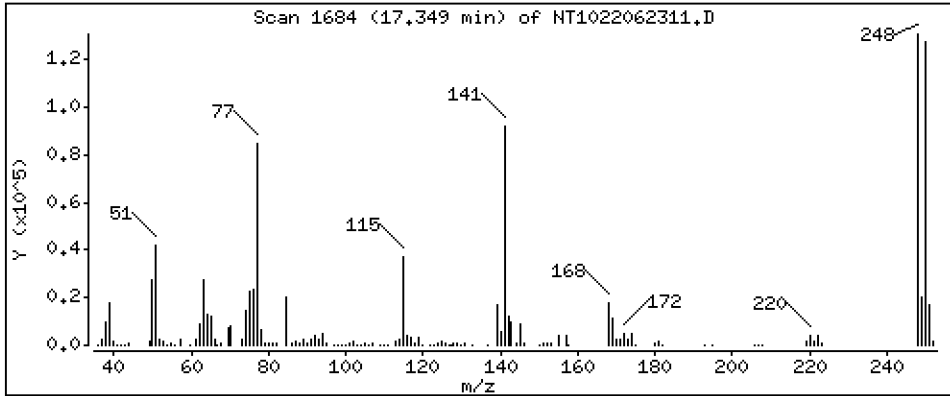
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,456 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

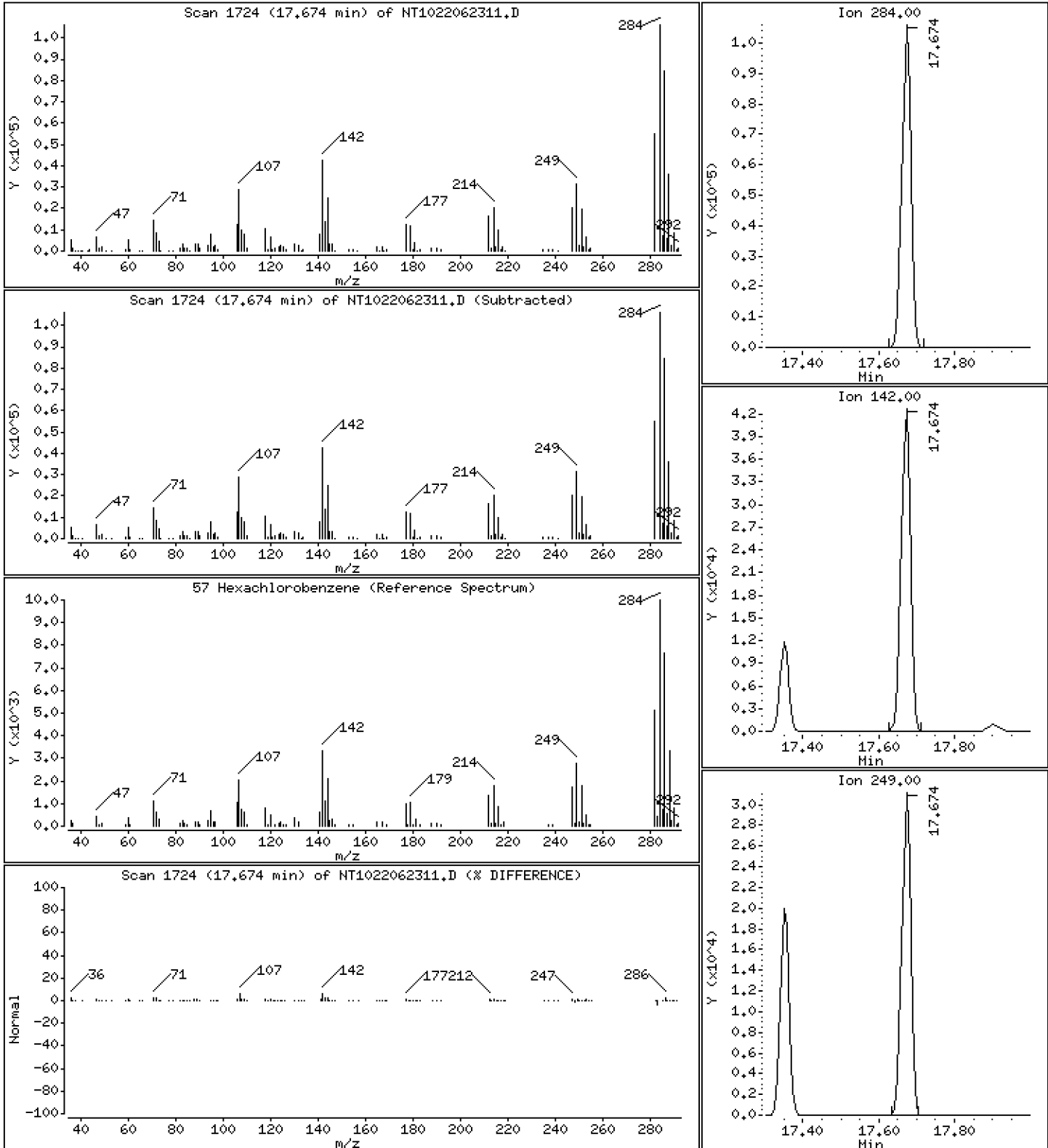
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 5,114 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

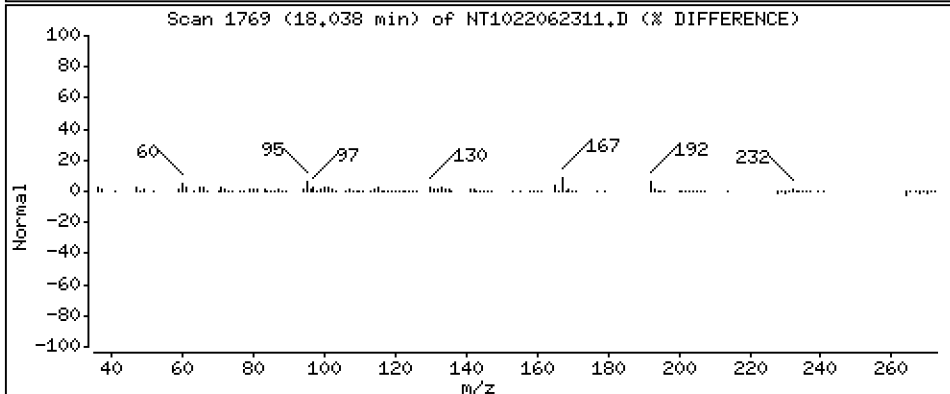
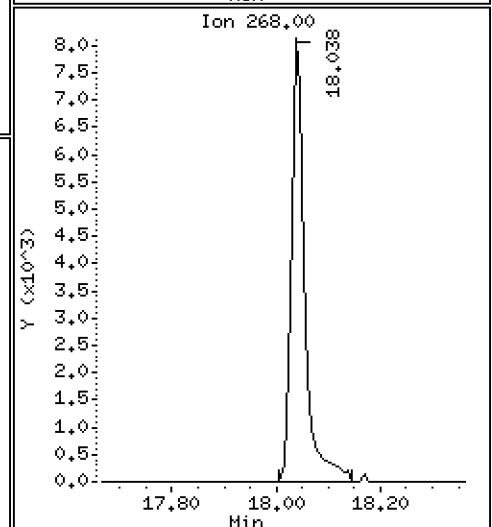
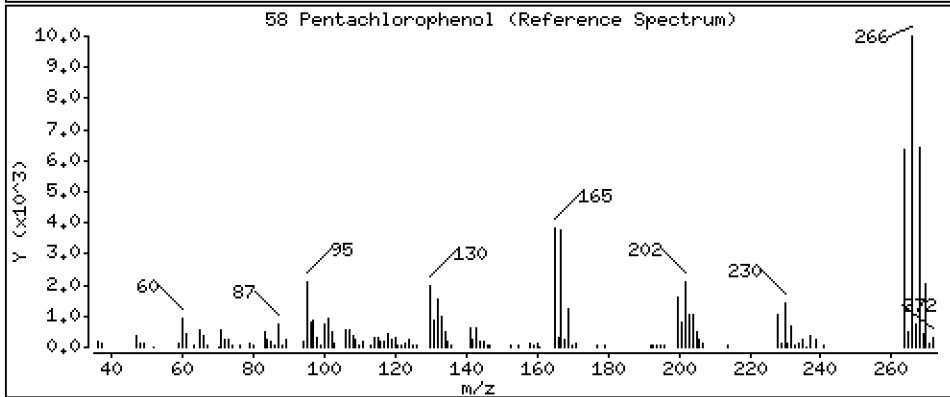
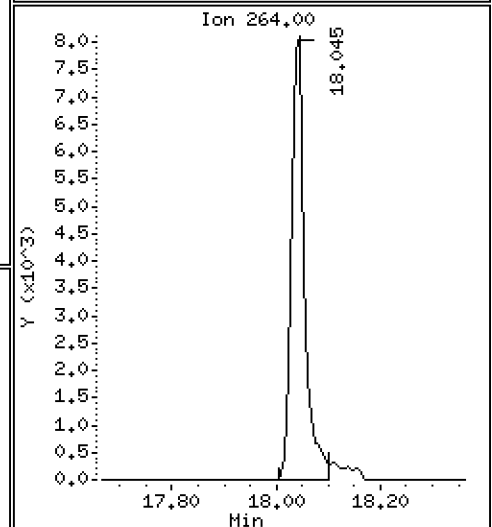
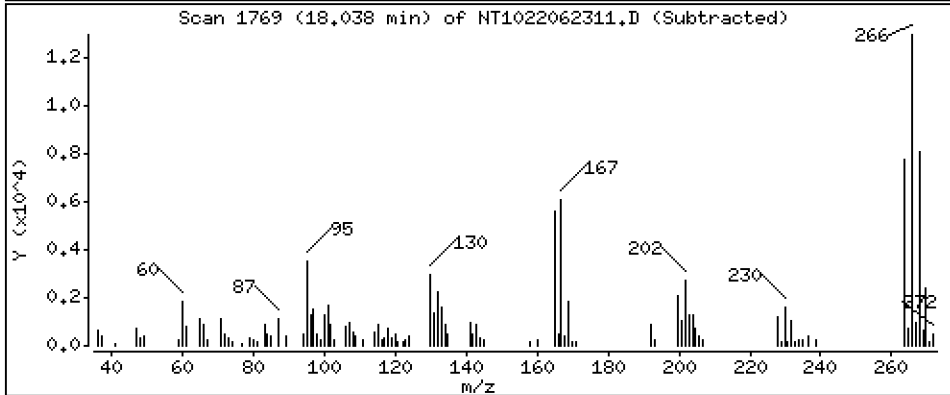
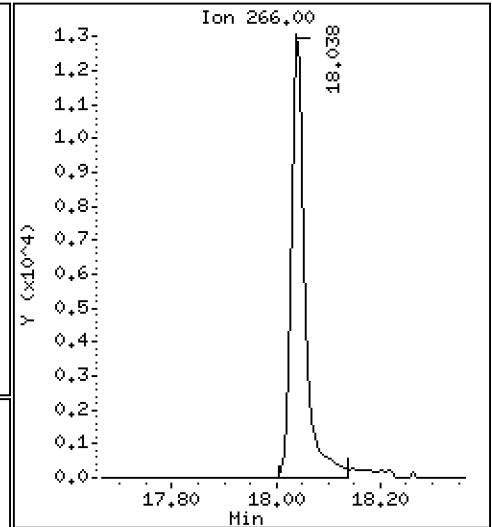
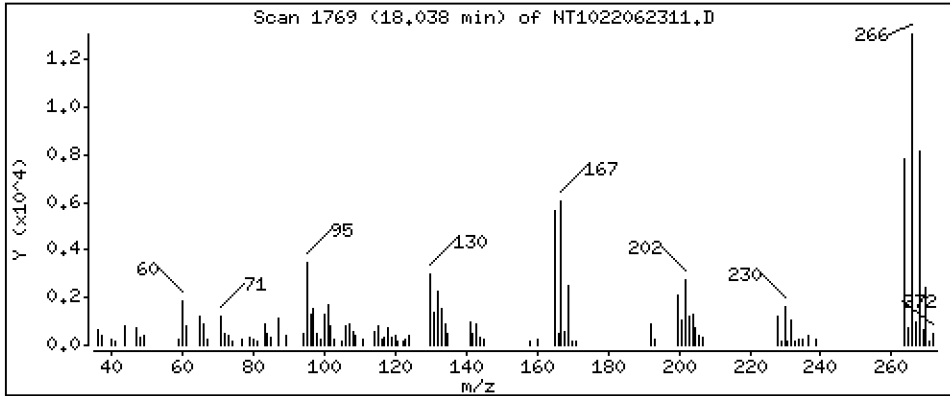
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,238 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

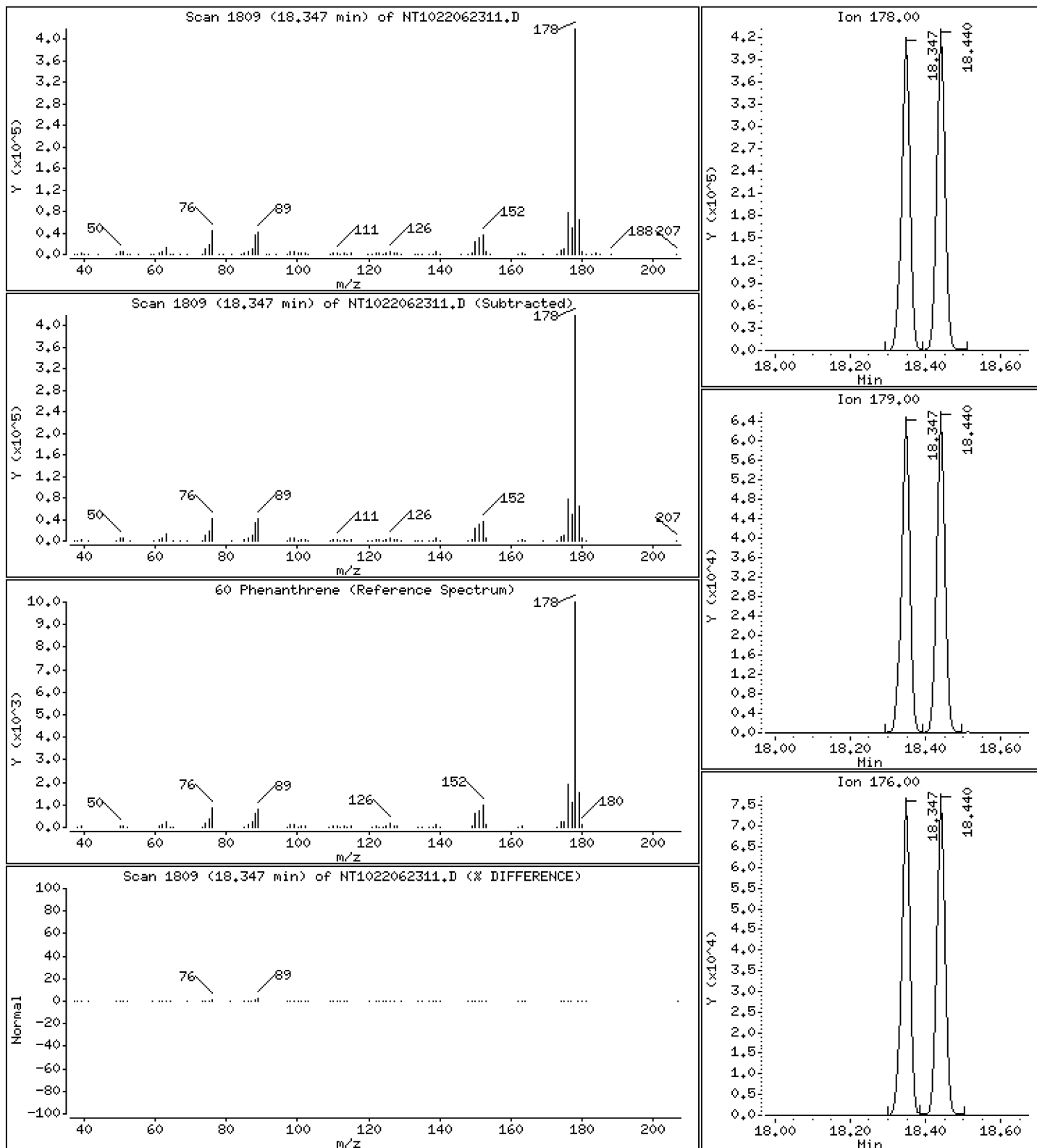
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,893 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

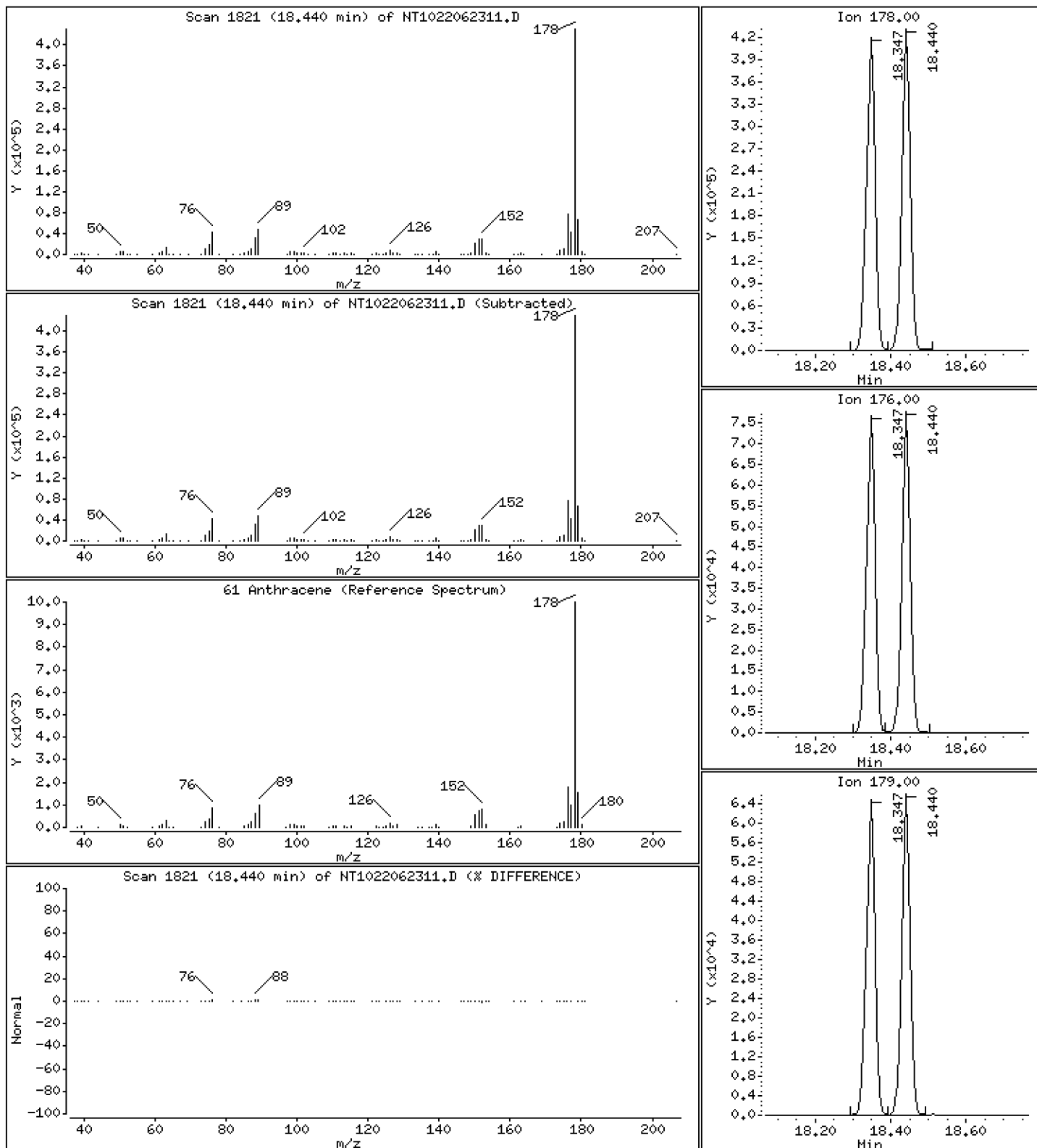
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,828 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

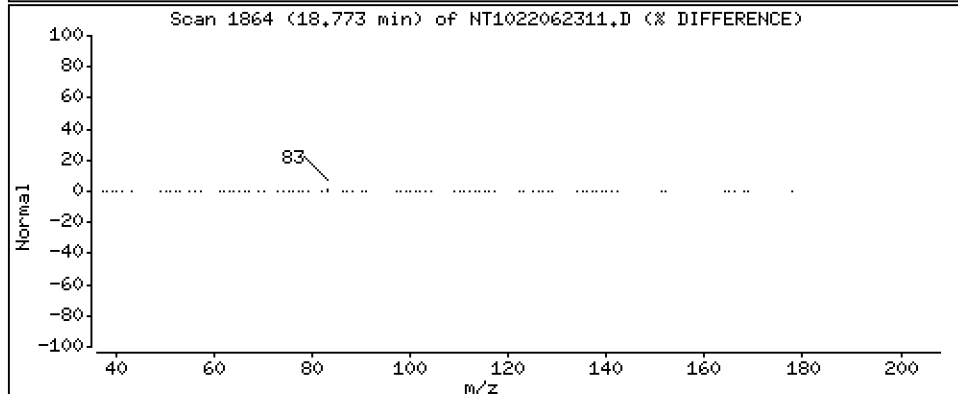
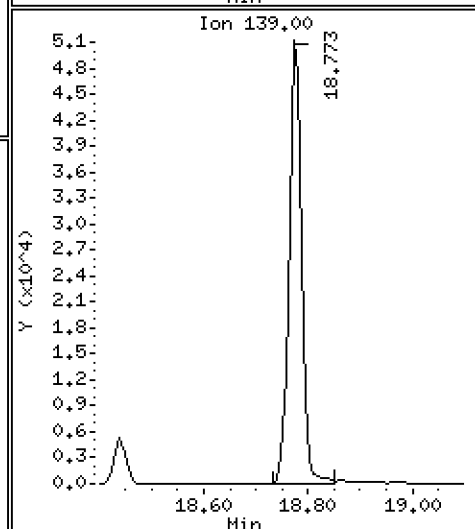
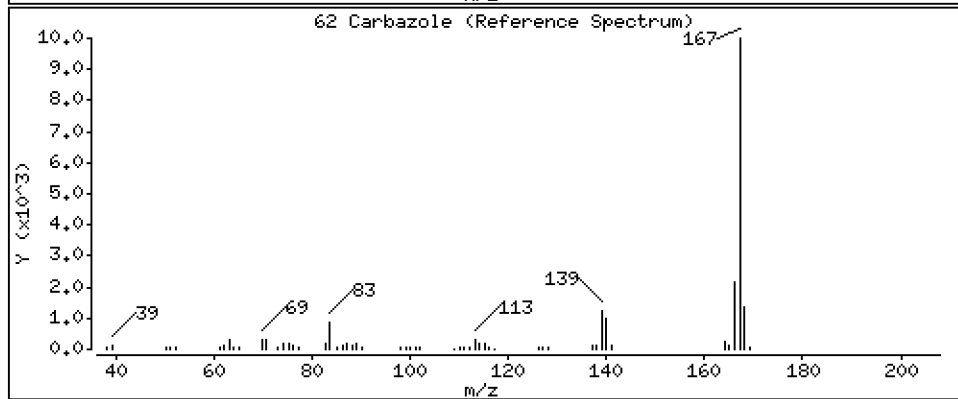
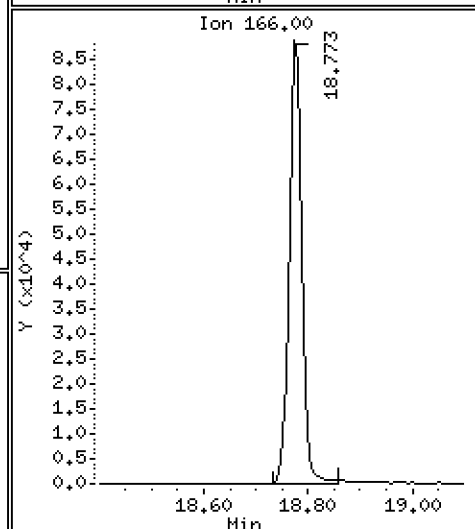
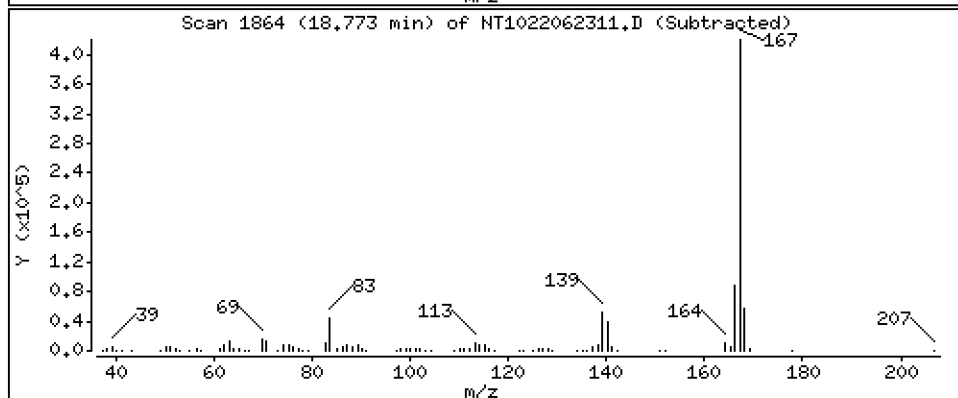
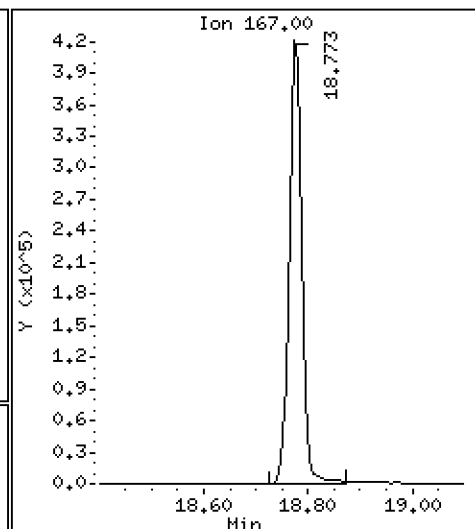
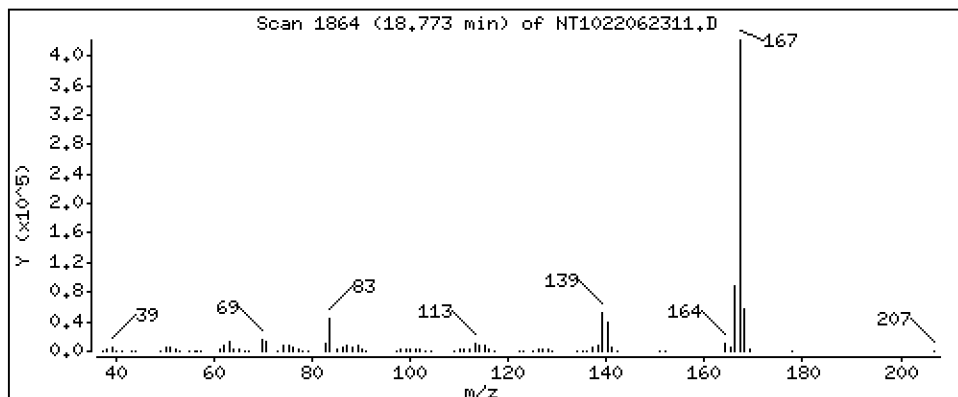
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,567 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

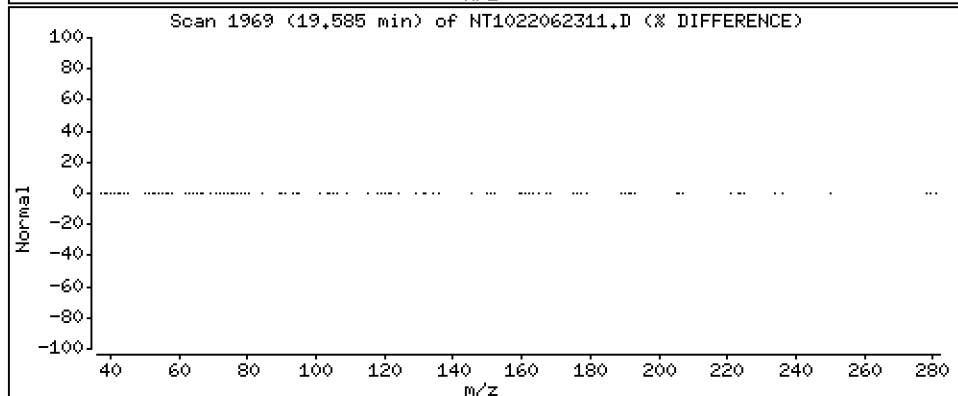
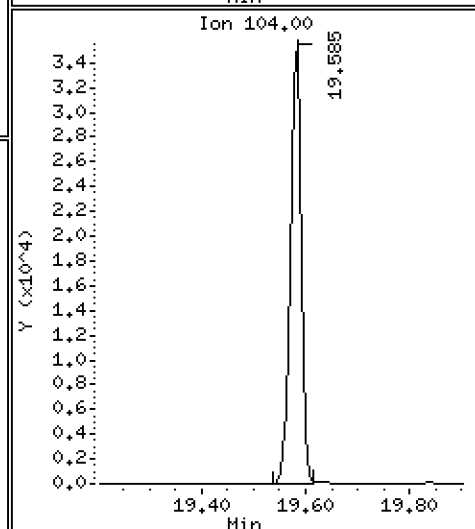
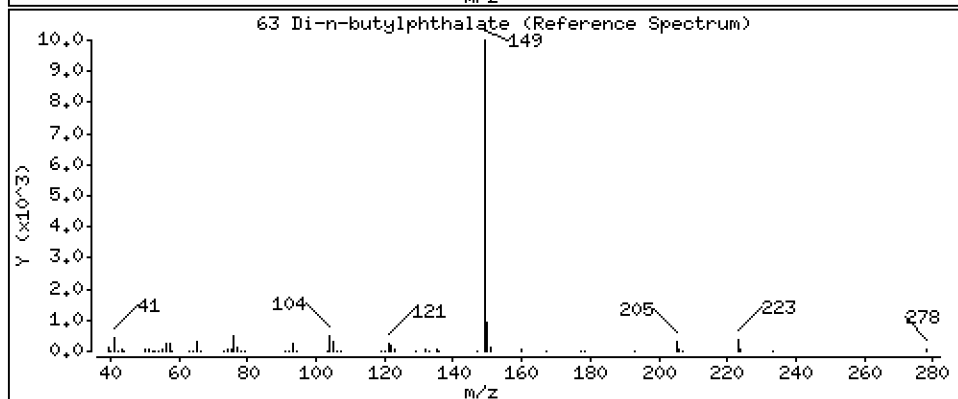
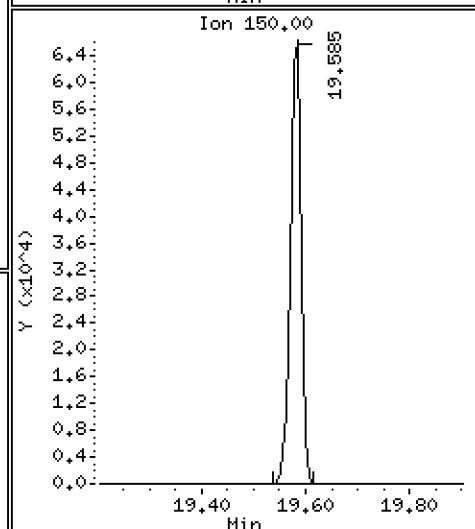
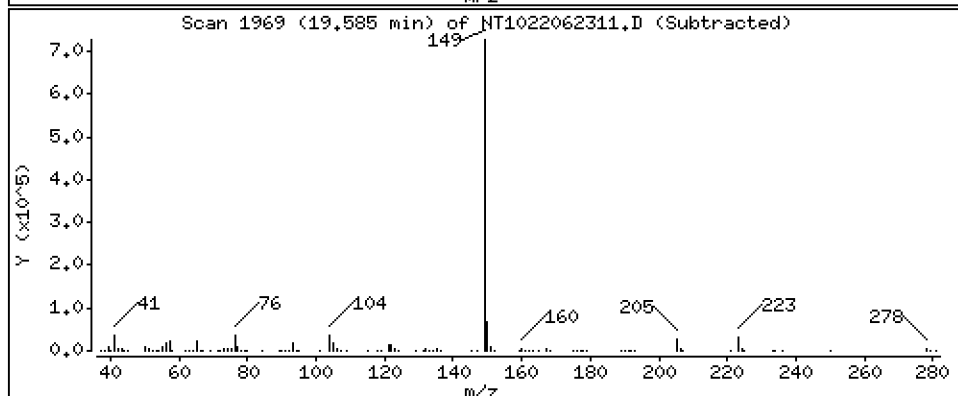
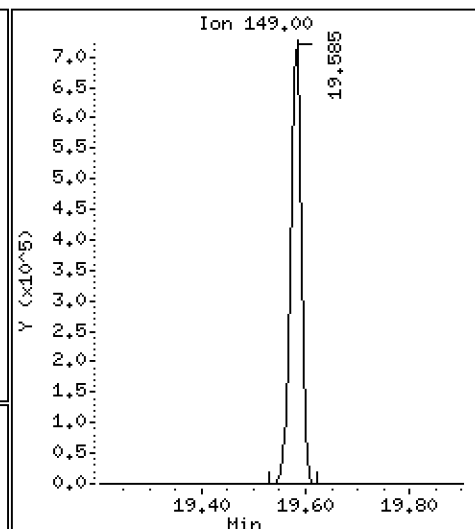
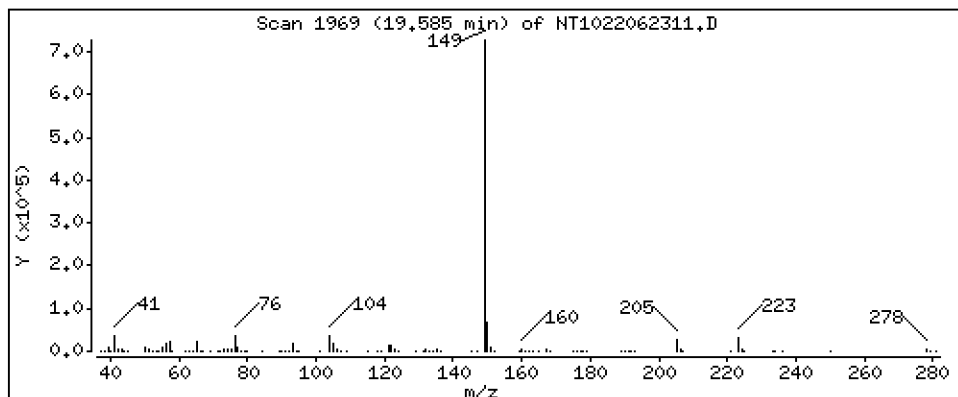
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,328 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

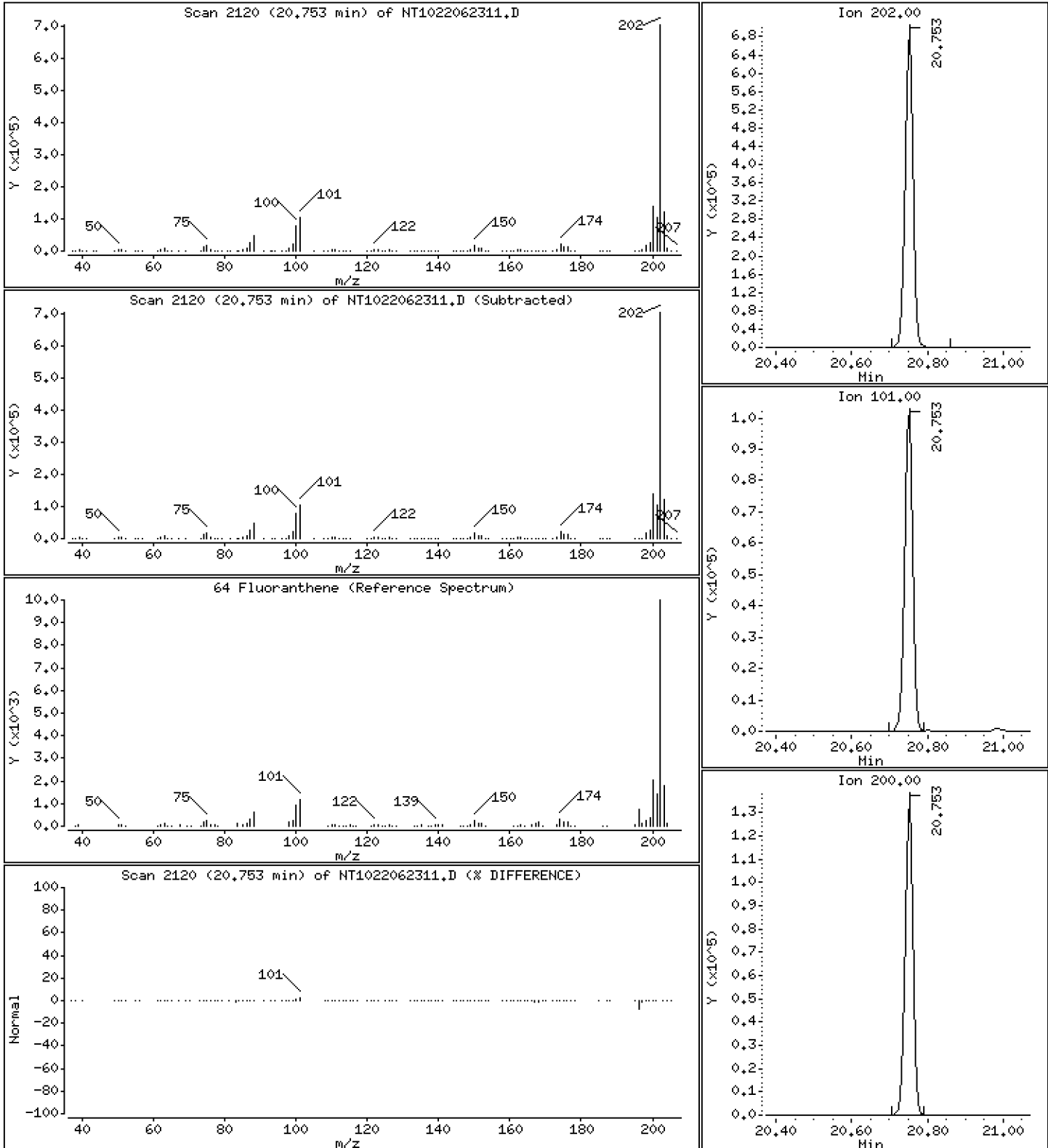
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,192 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

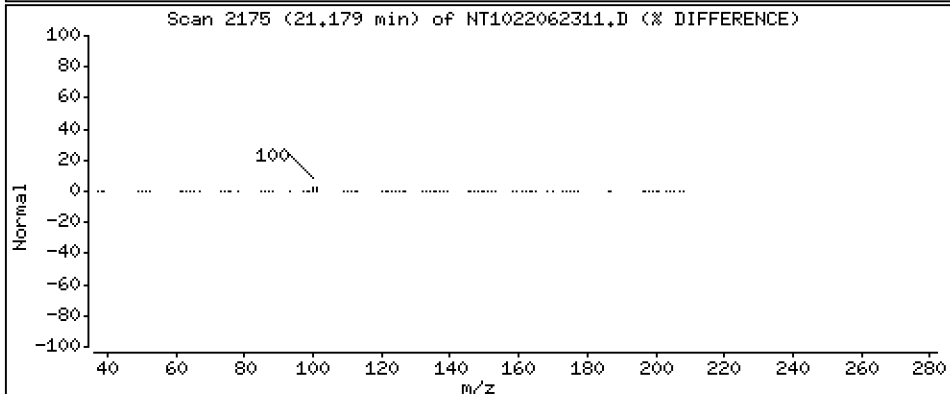
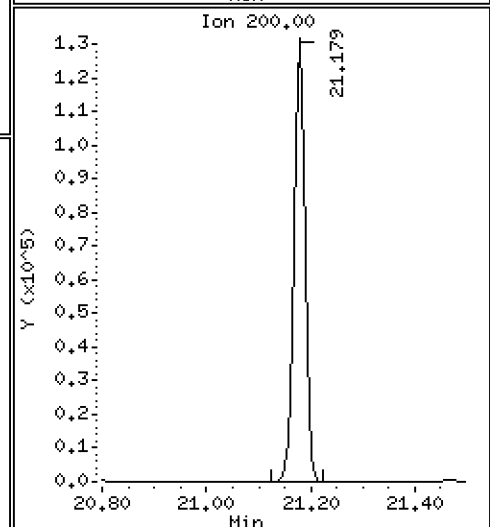
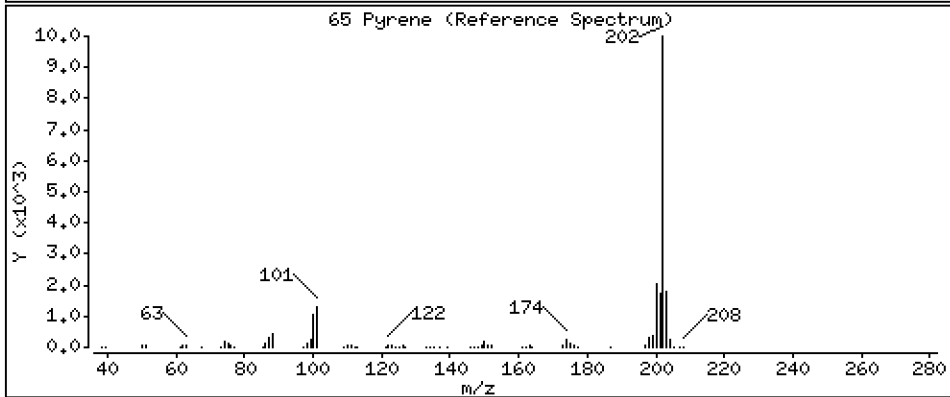
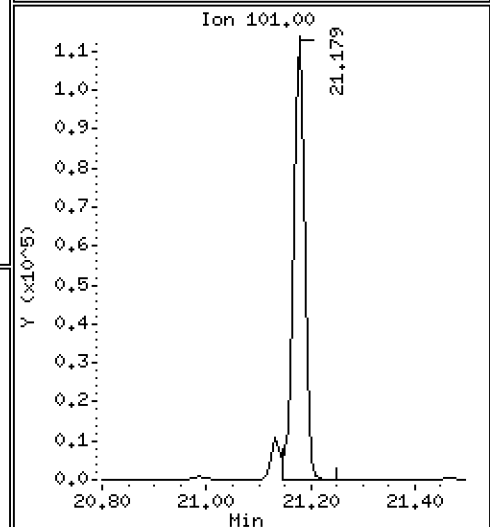
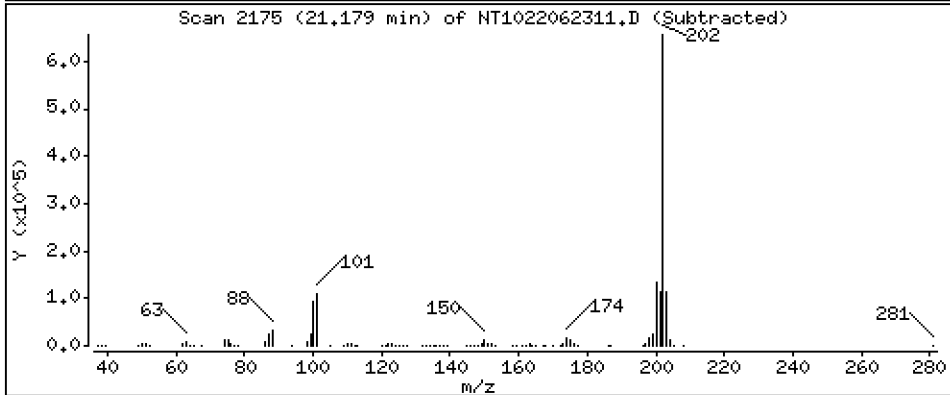
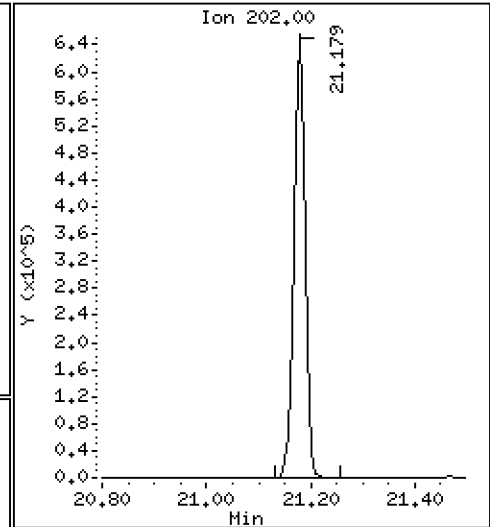
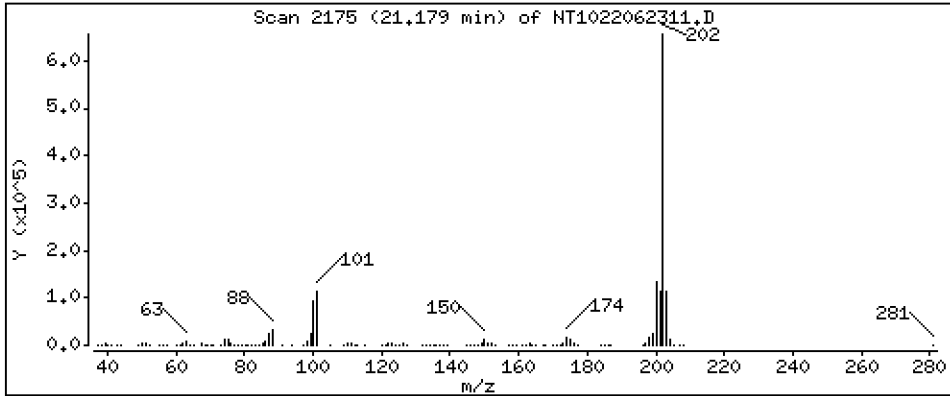
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,572 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

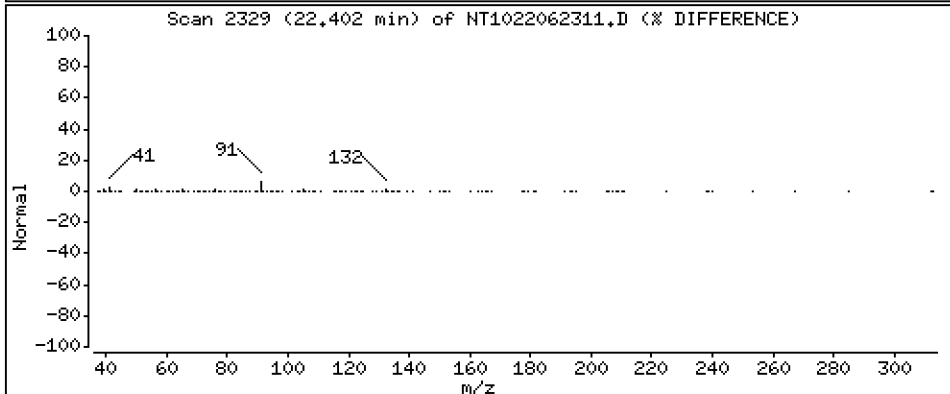
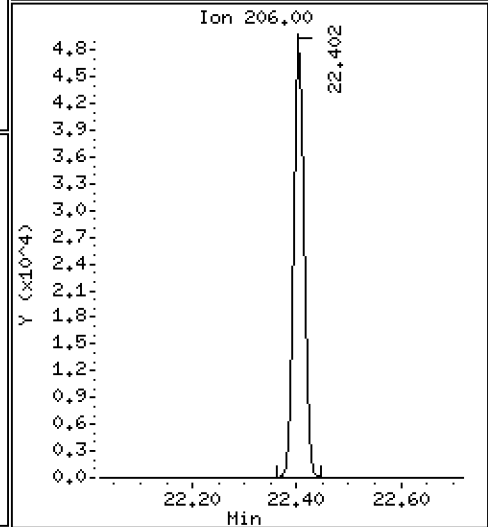
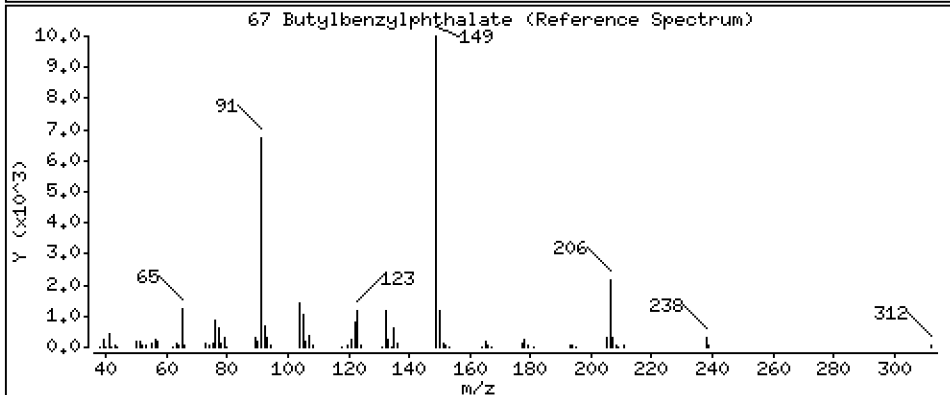
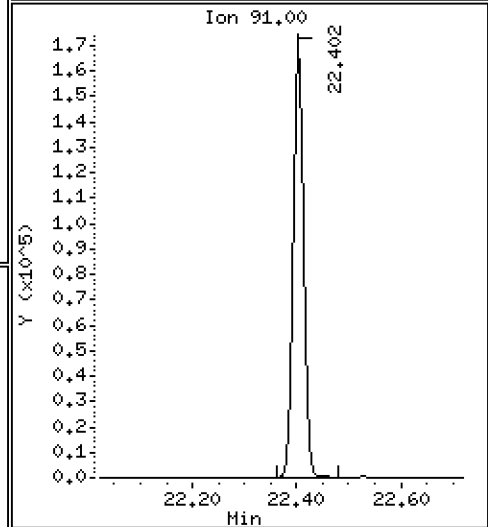
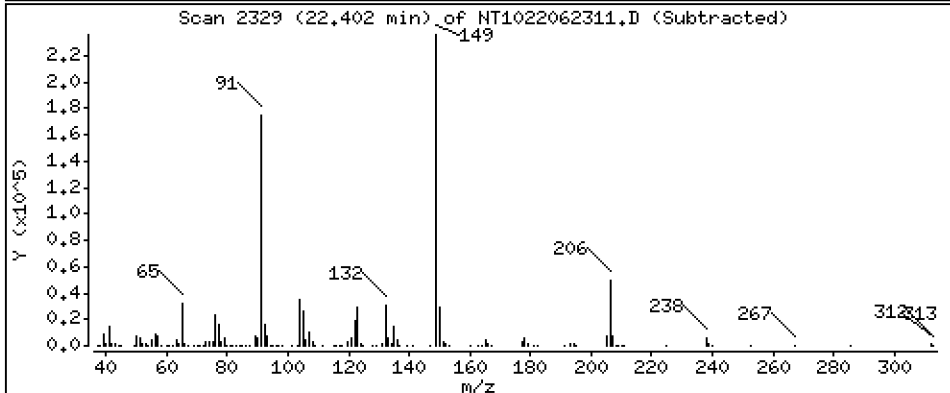
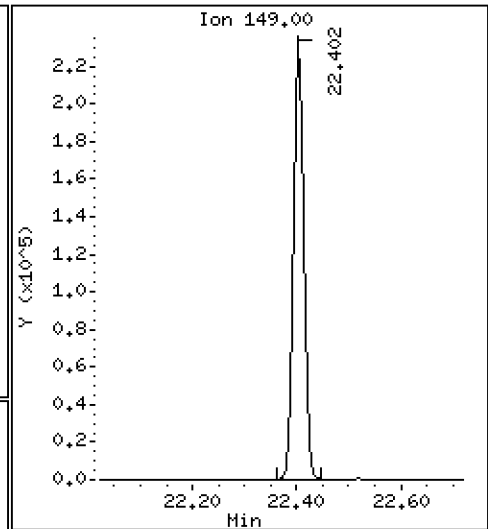
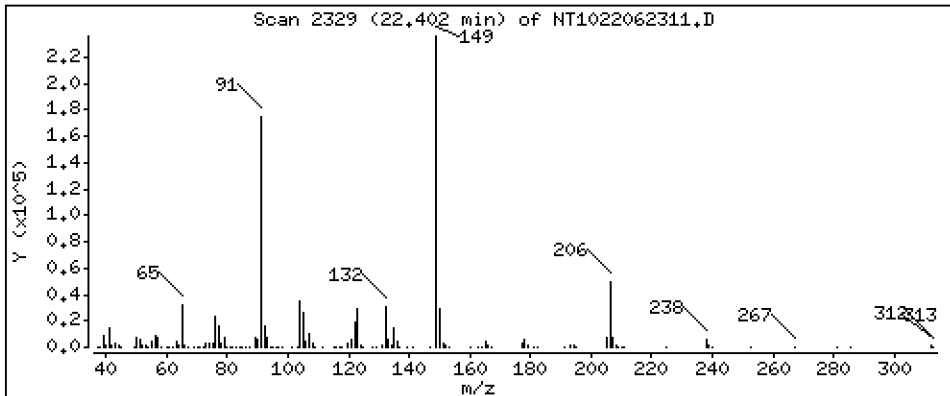
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,860 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

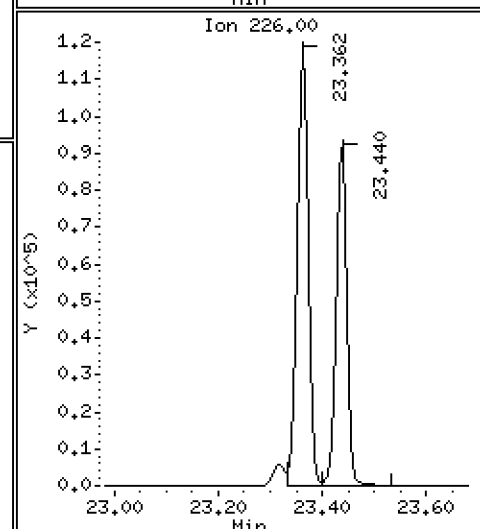
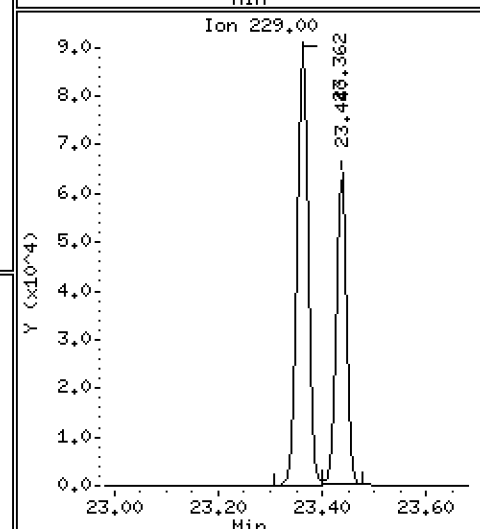
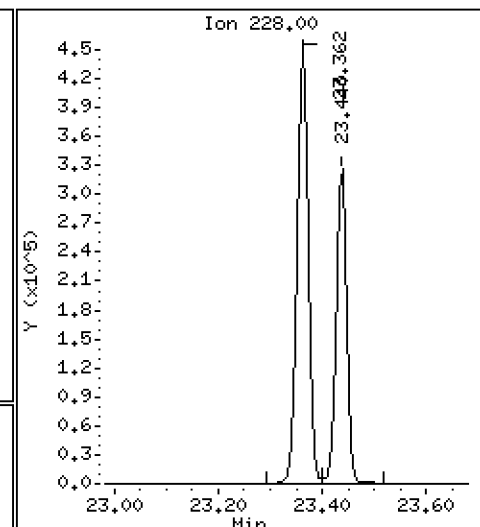
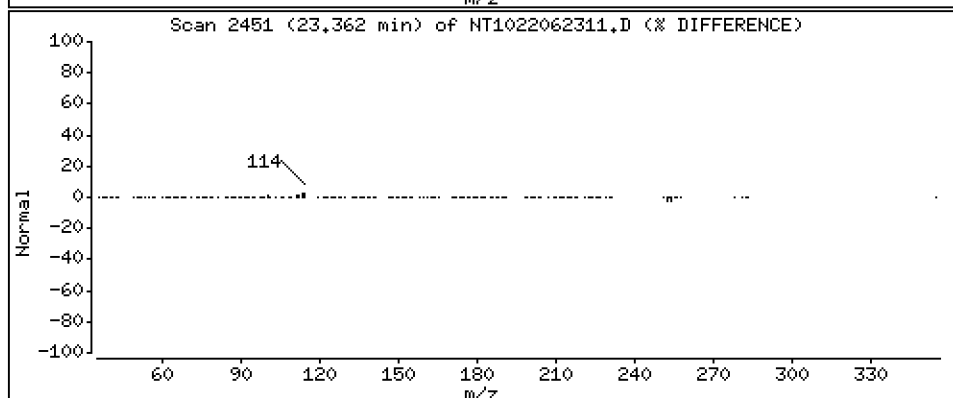
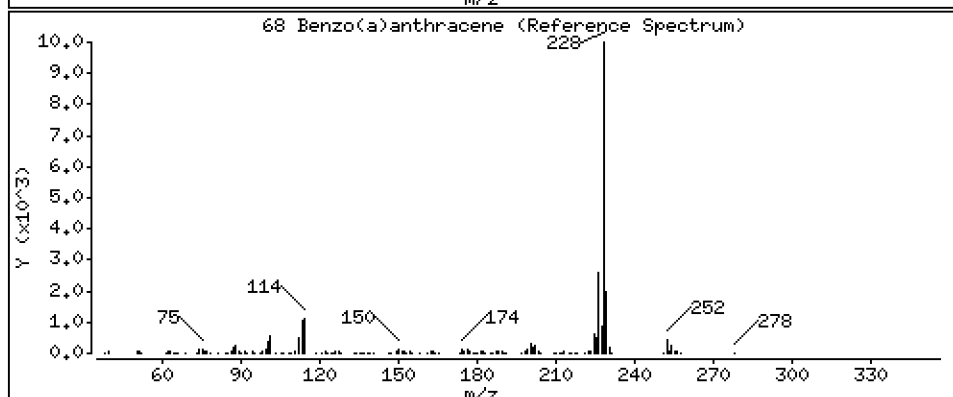
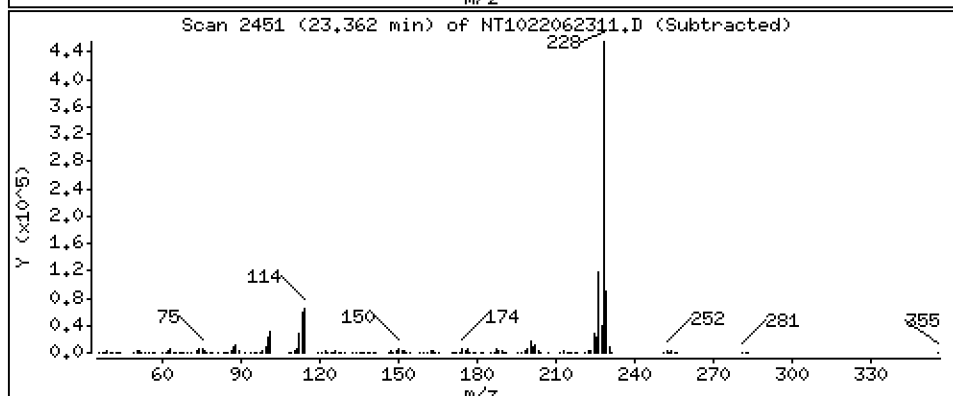
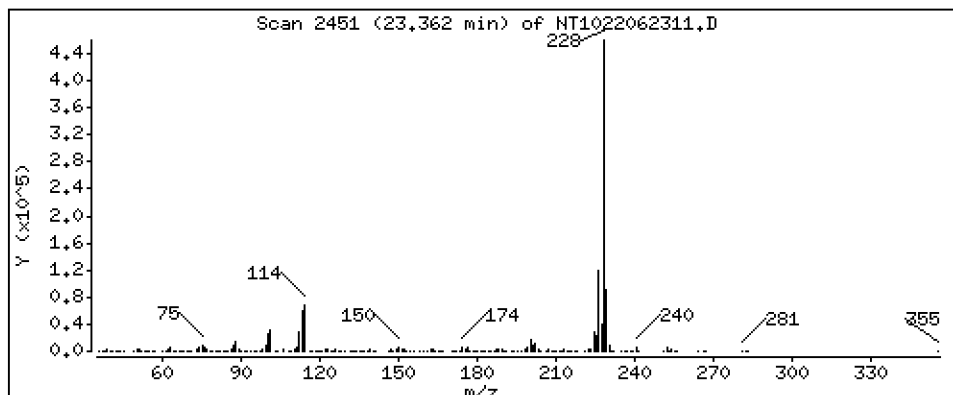
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,852 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

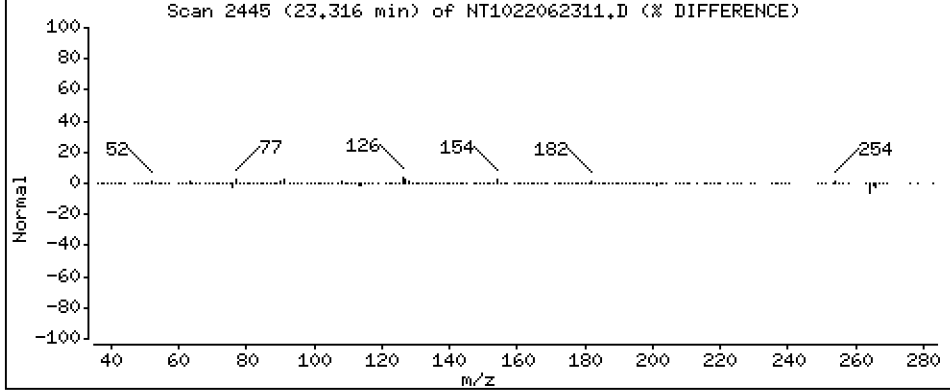
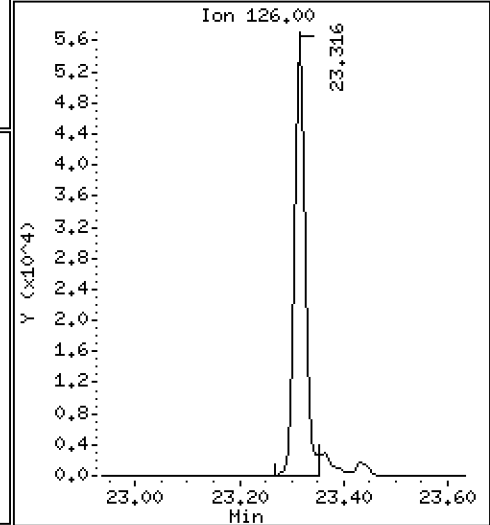
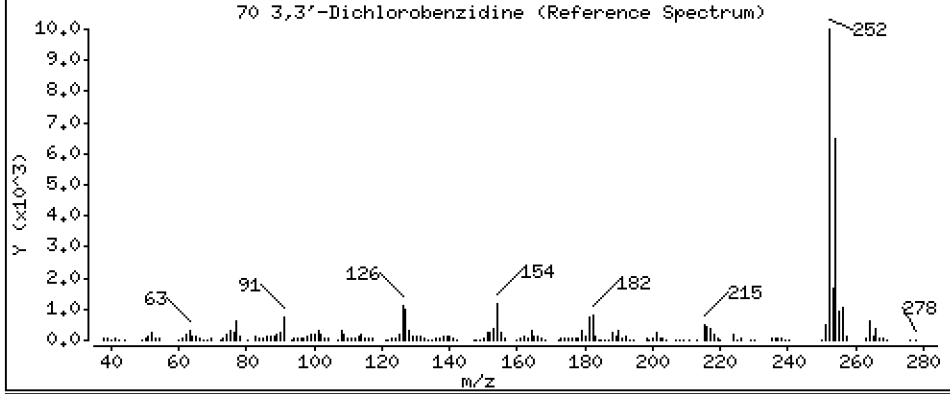
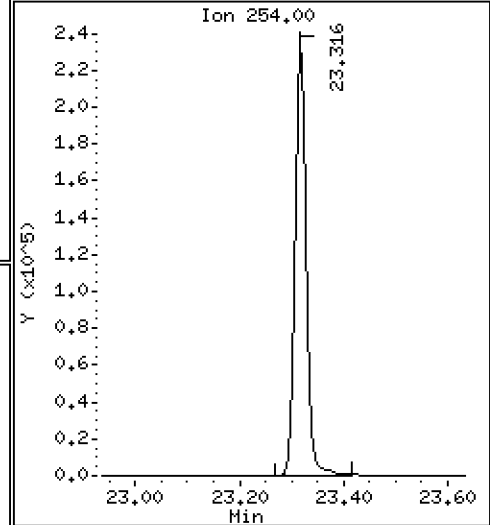
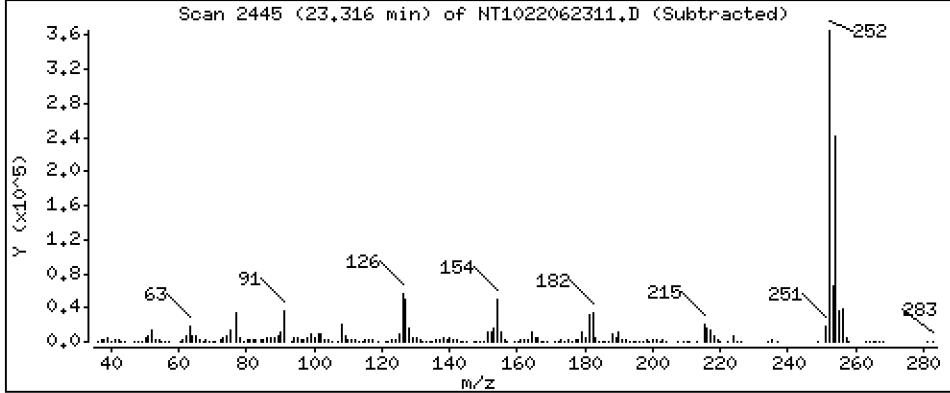
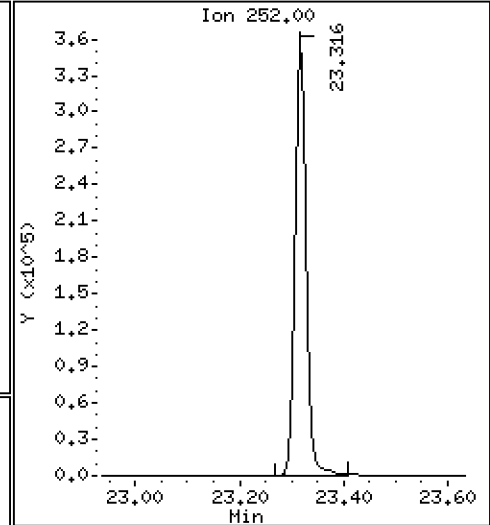
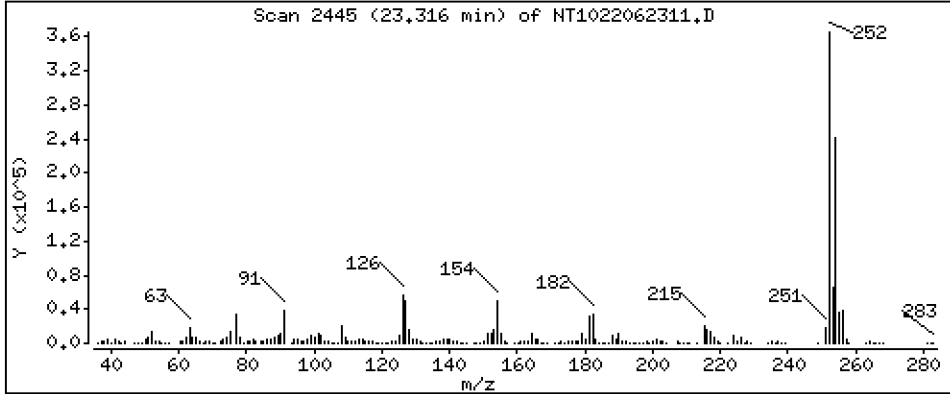
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 11,77 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

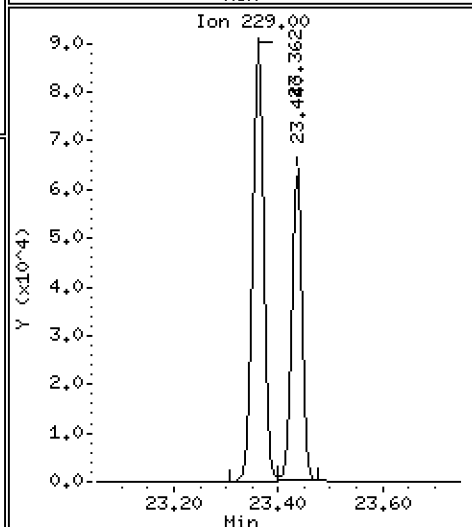
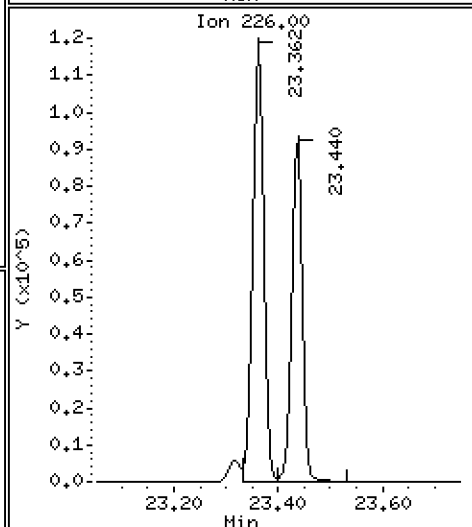
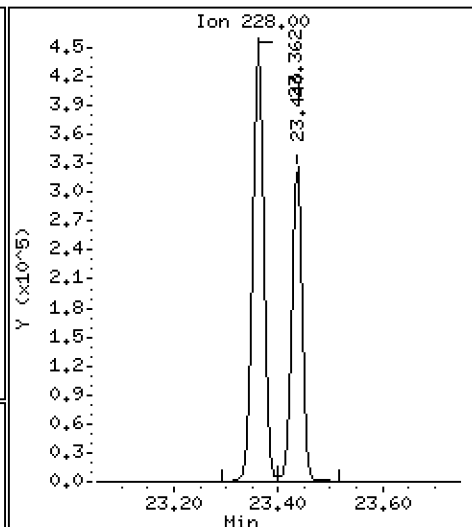
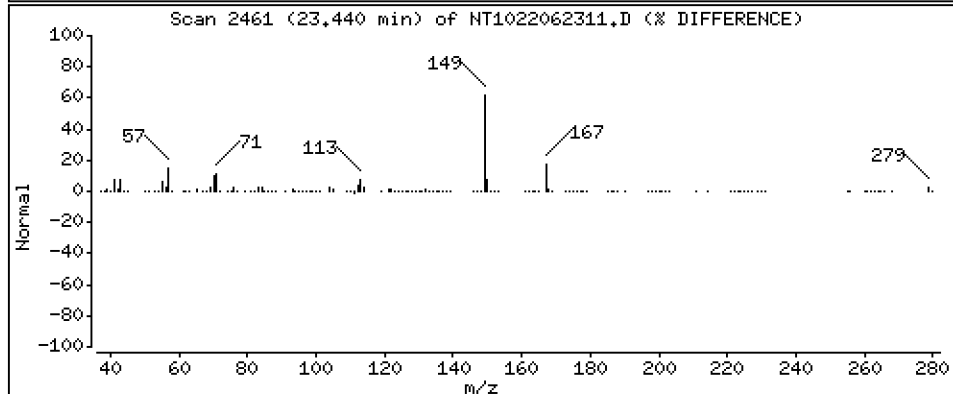
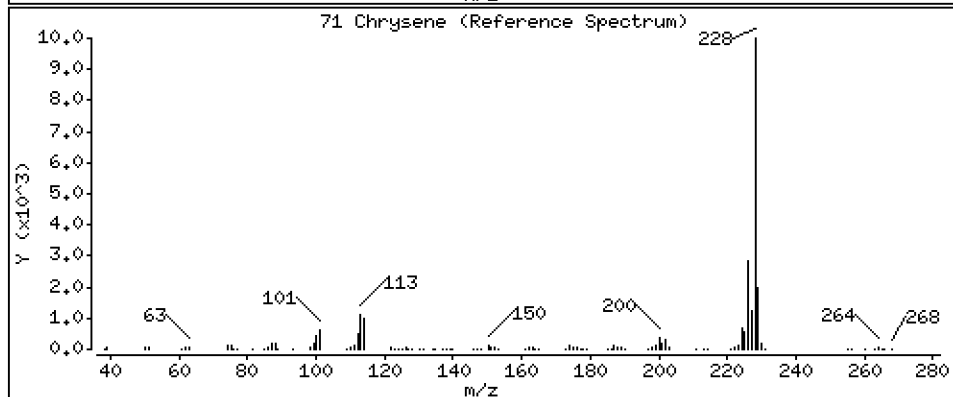
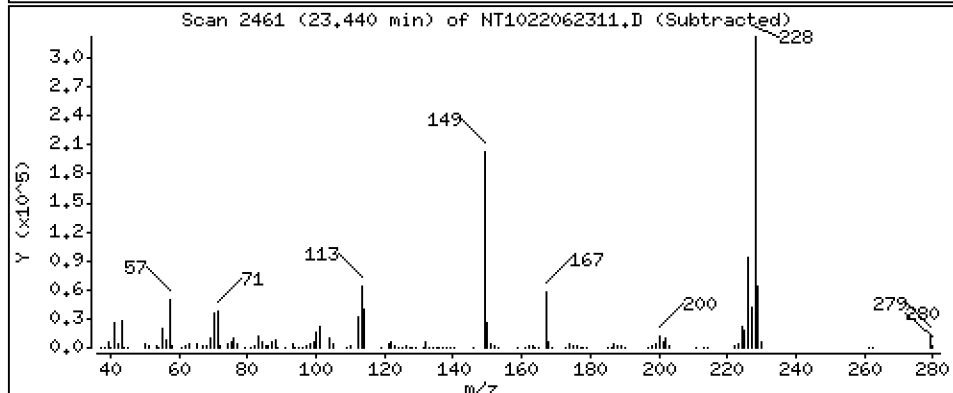
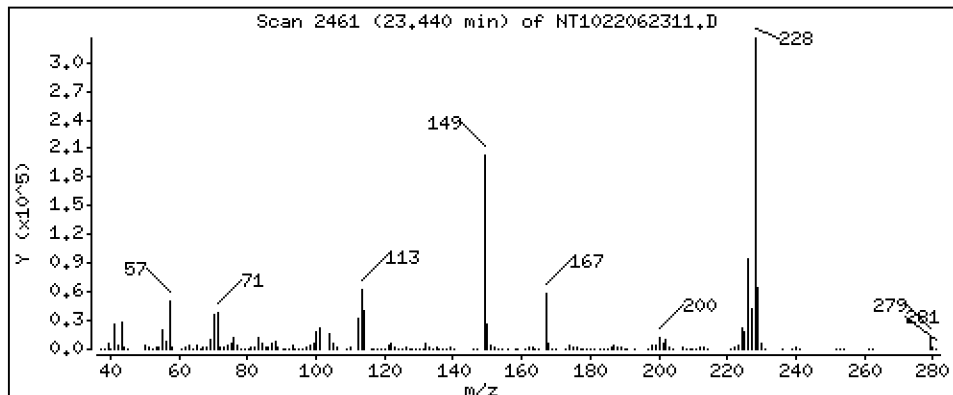
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,725 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

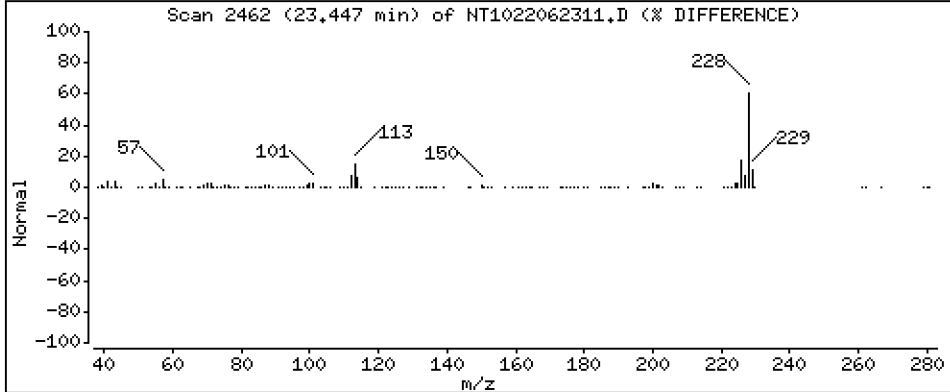
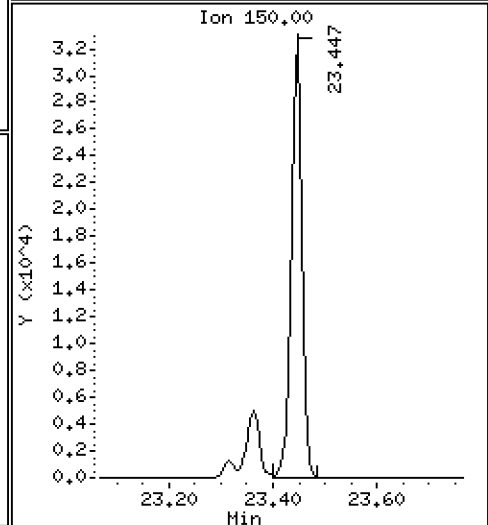
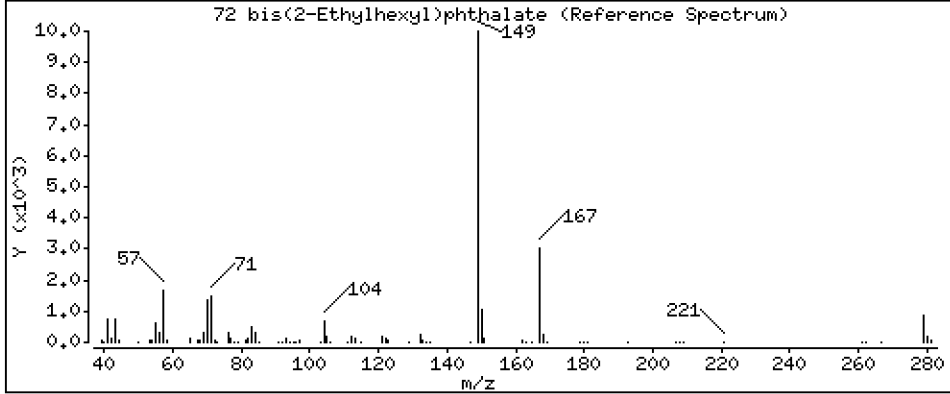
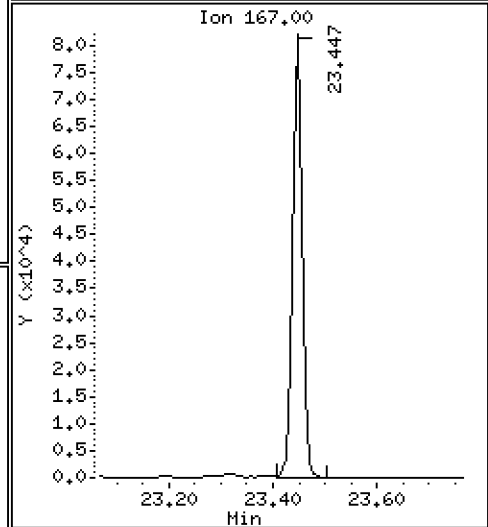
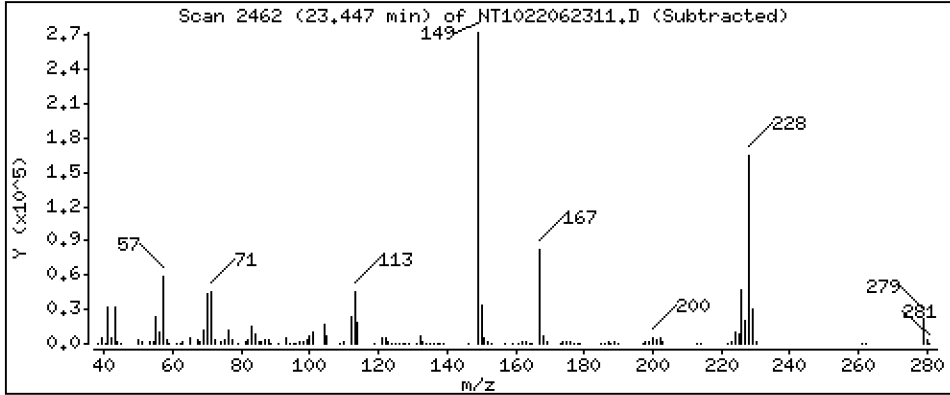
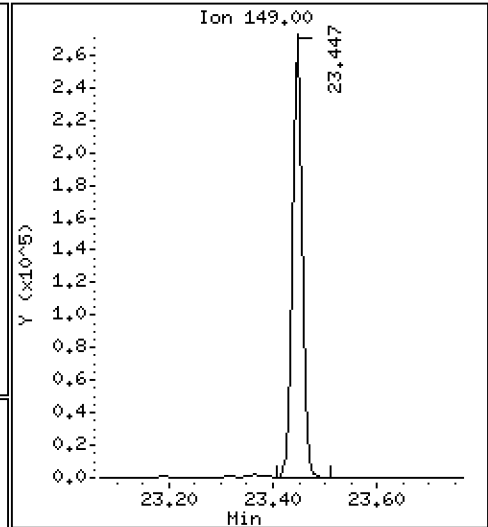
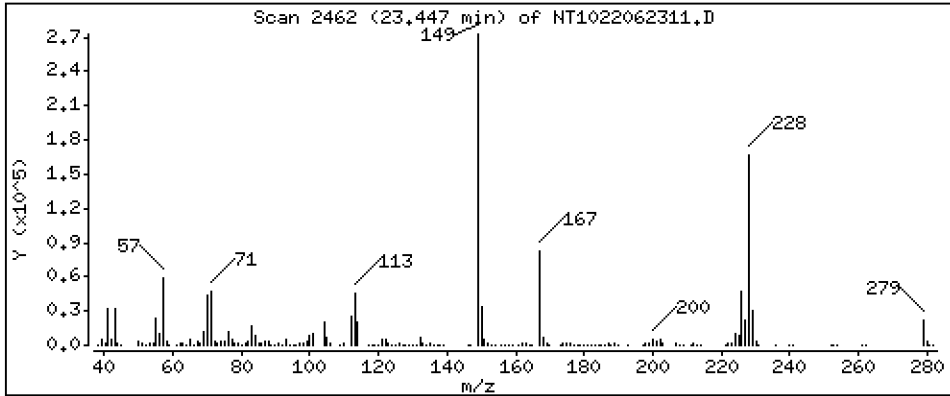
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,061 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

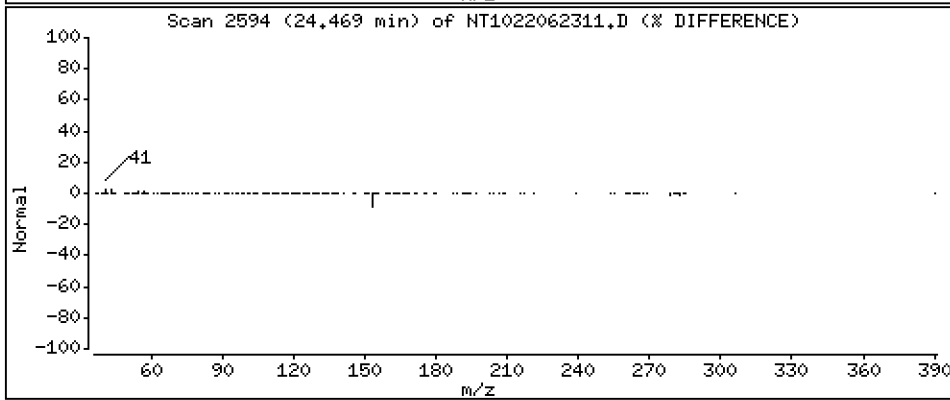
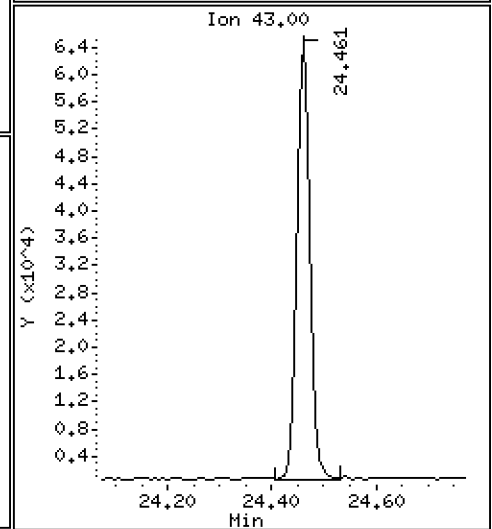
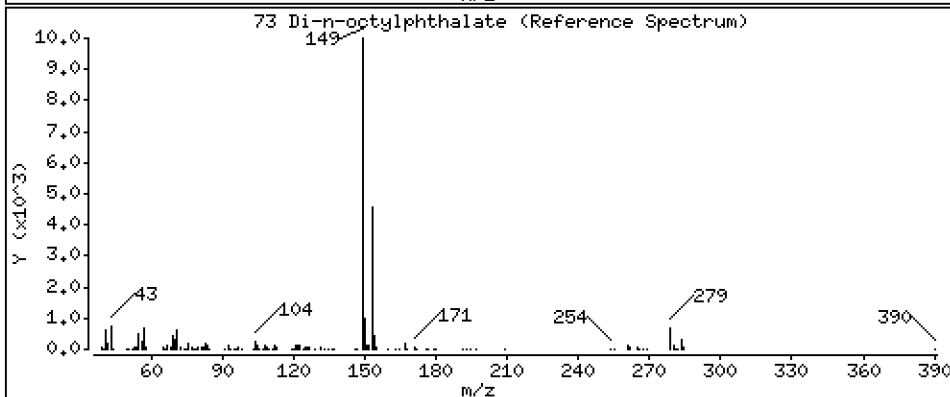
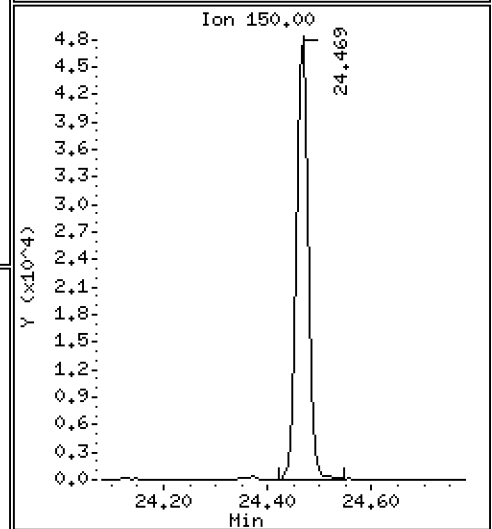
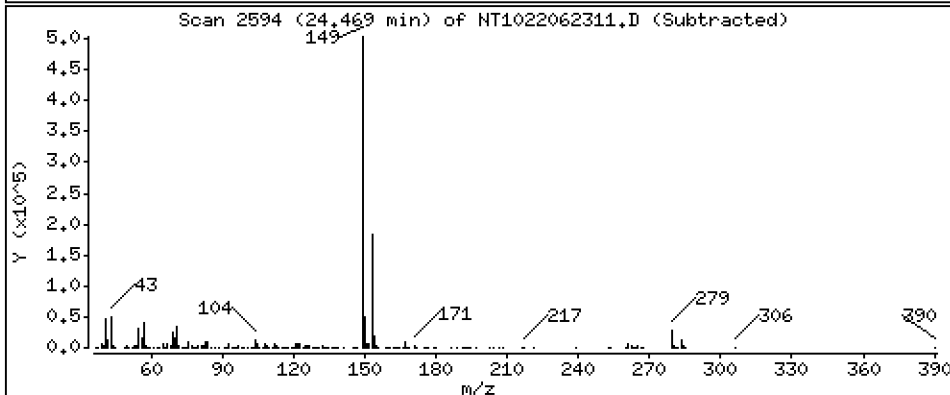
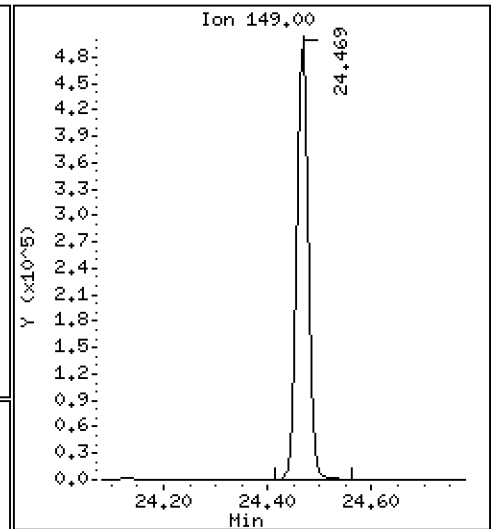
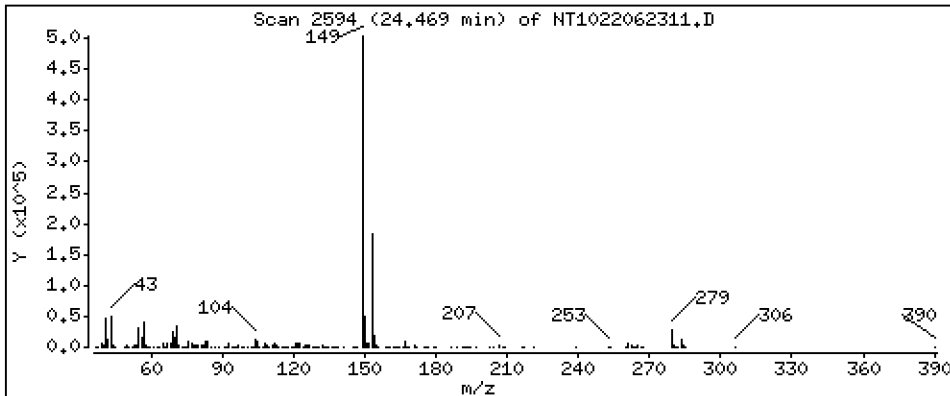
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,502 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

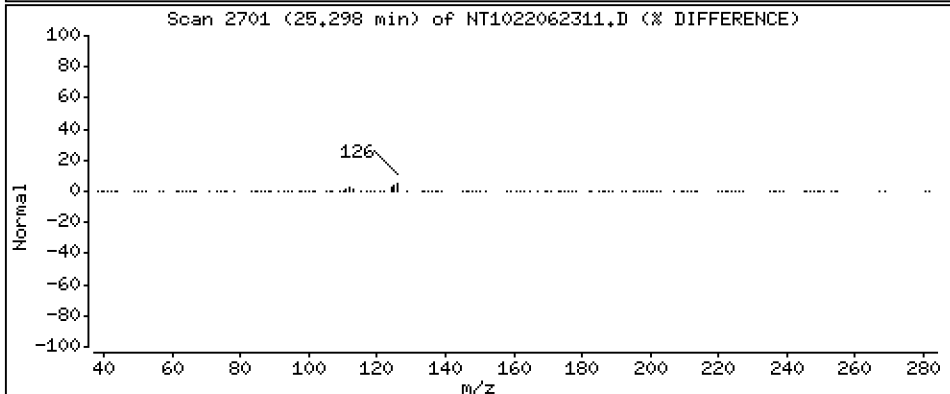
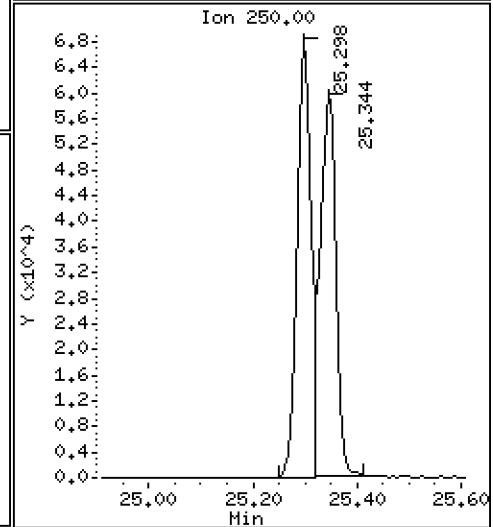
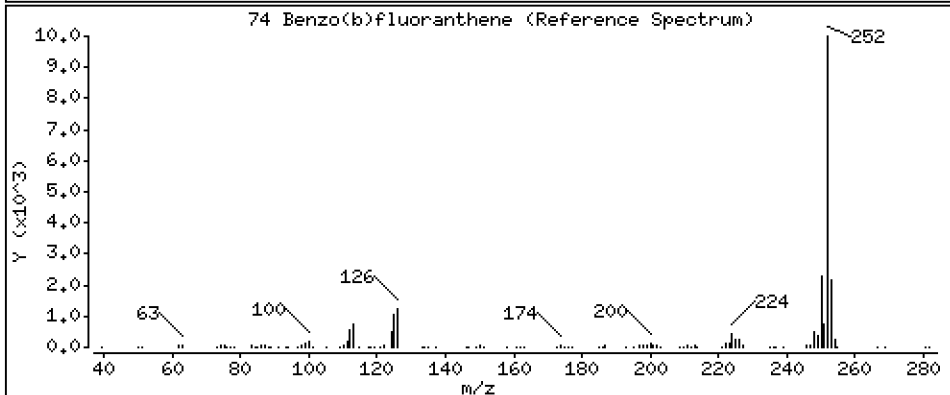
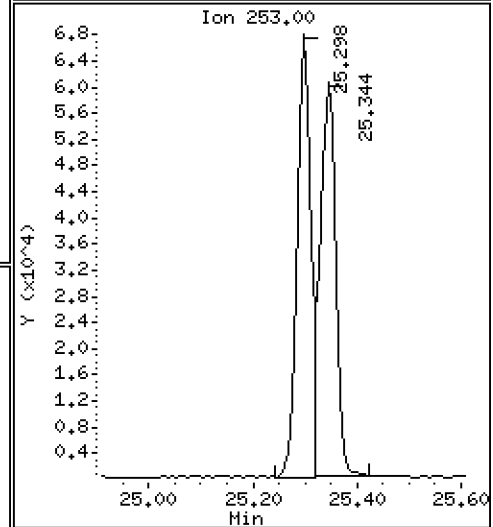
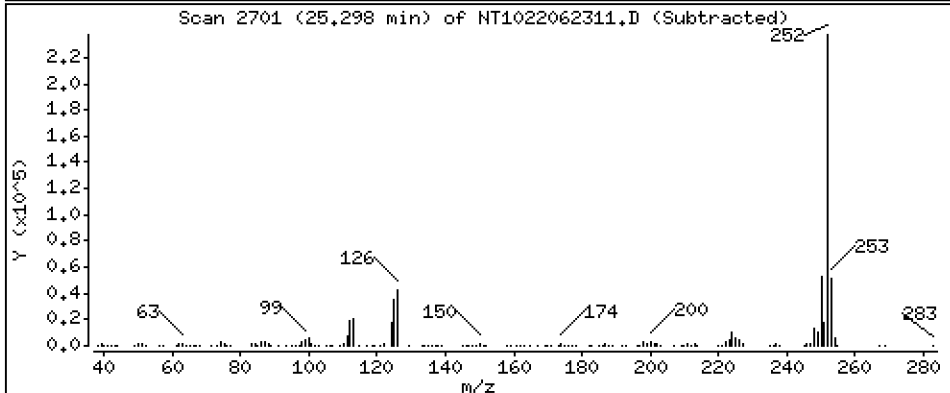
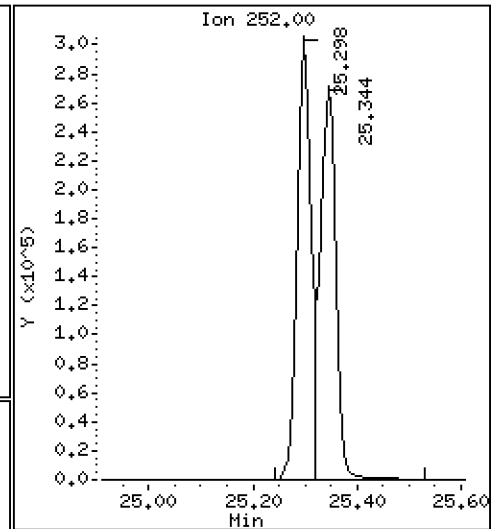
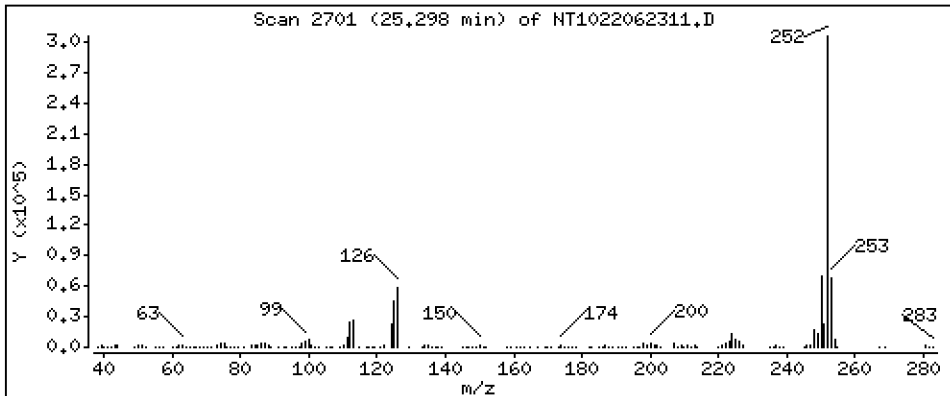
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,955 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

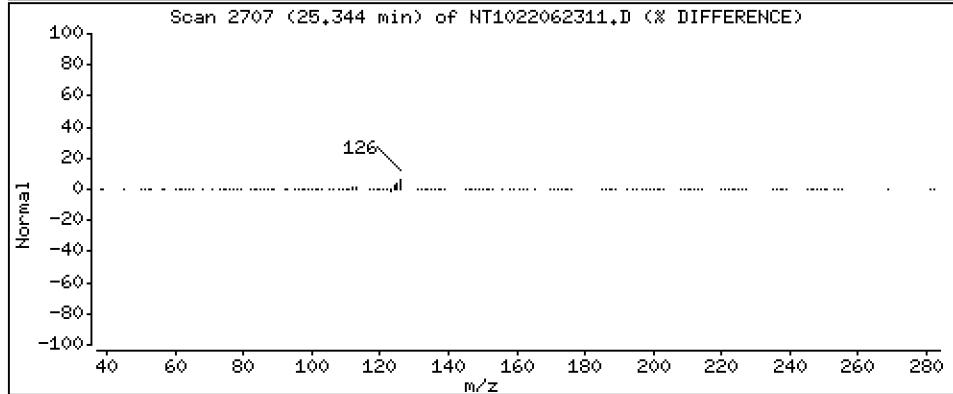
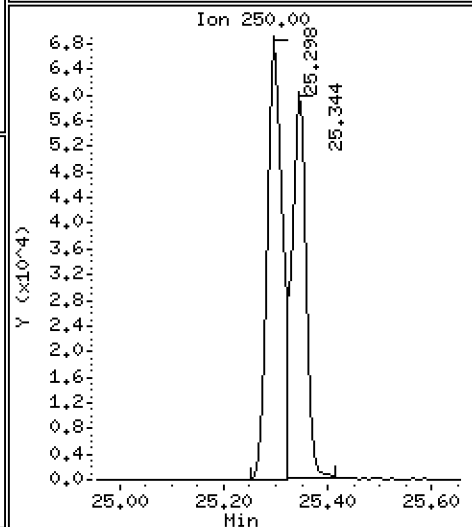
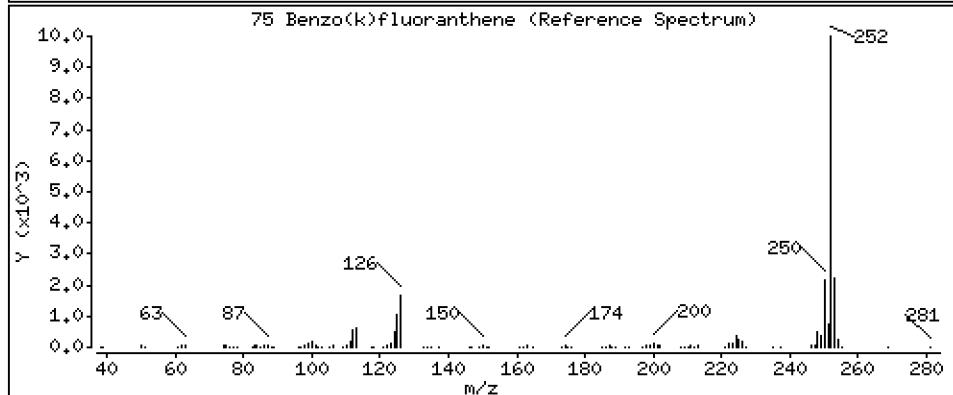
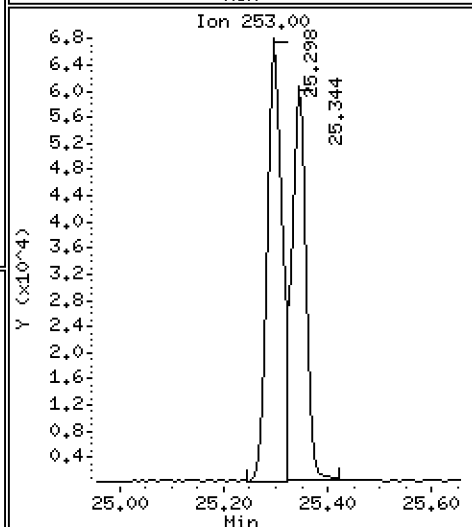
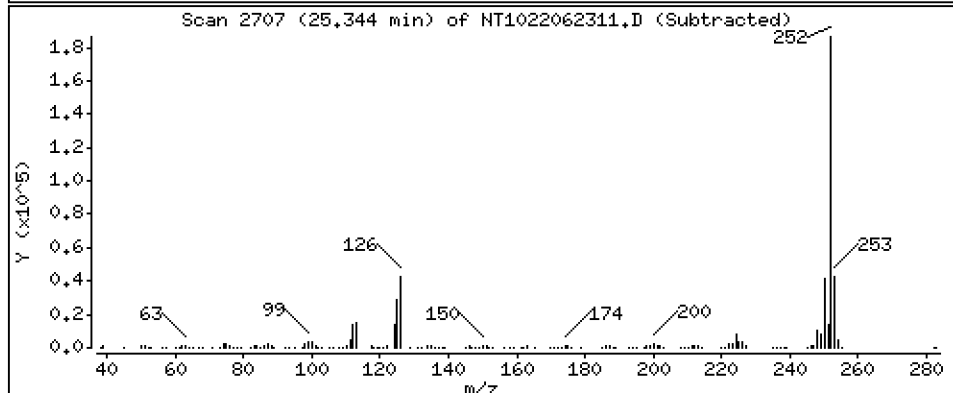
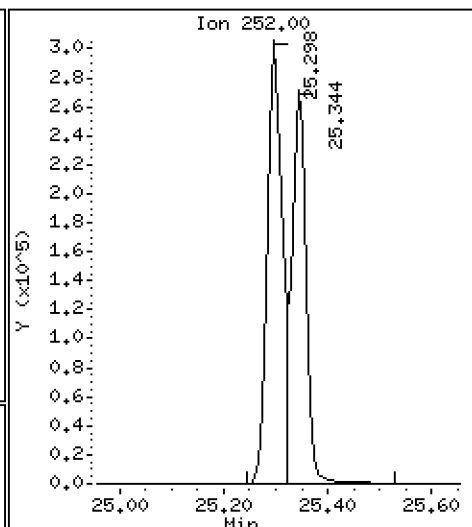
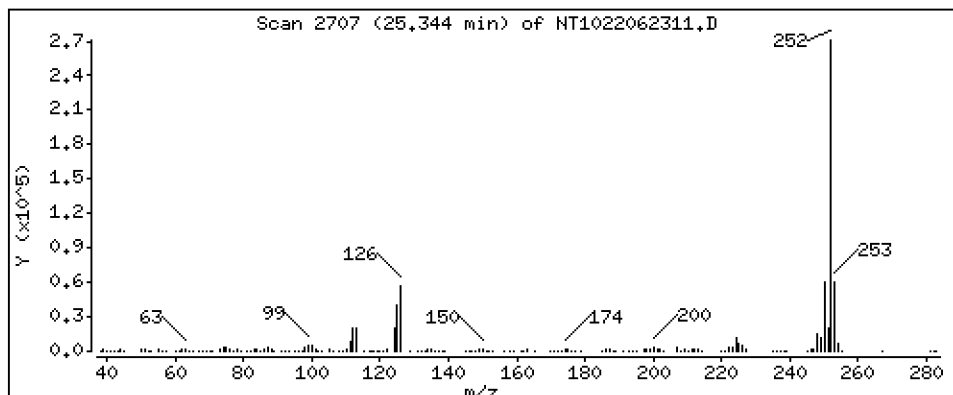
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 5,262 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

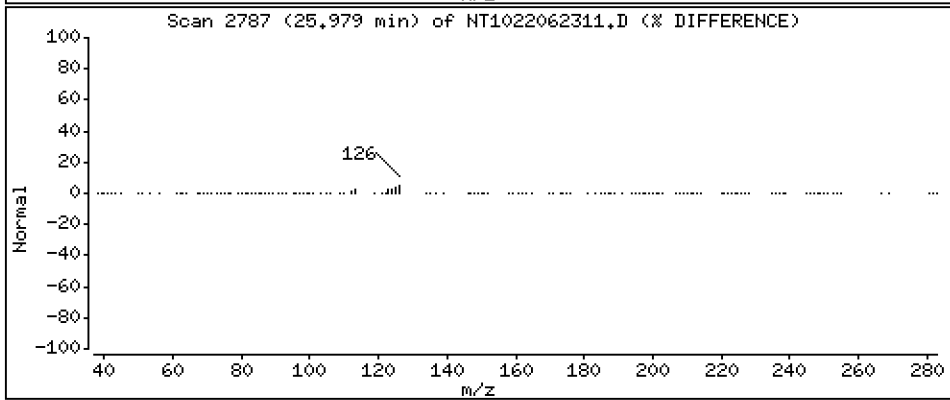
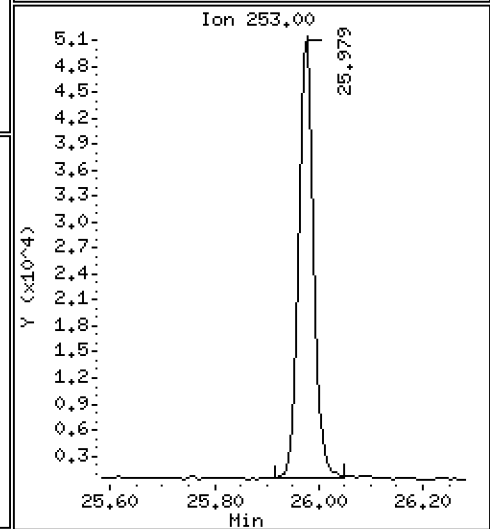
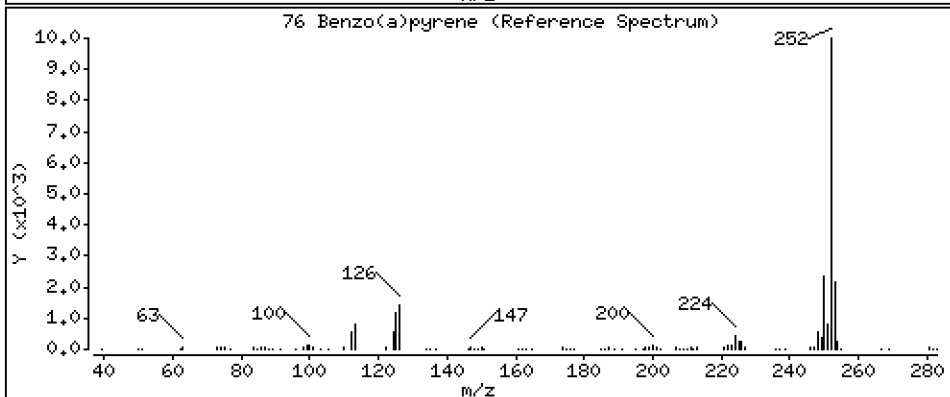
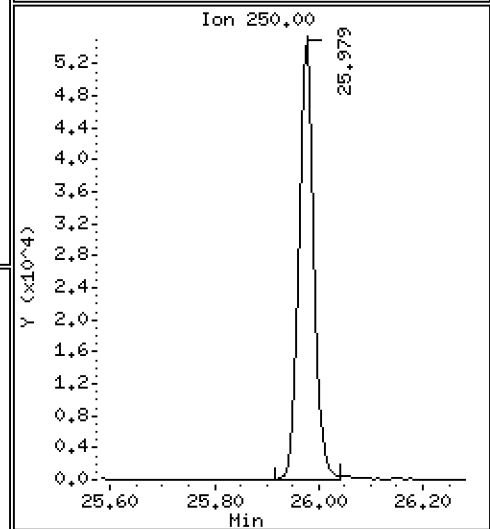
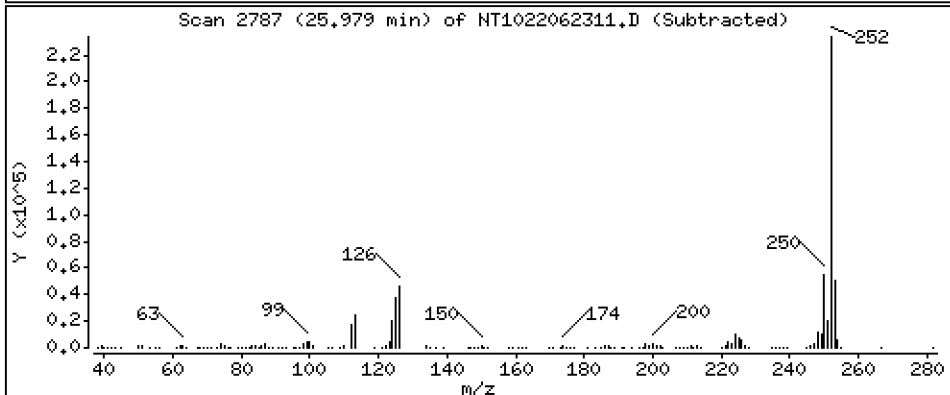
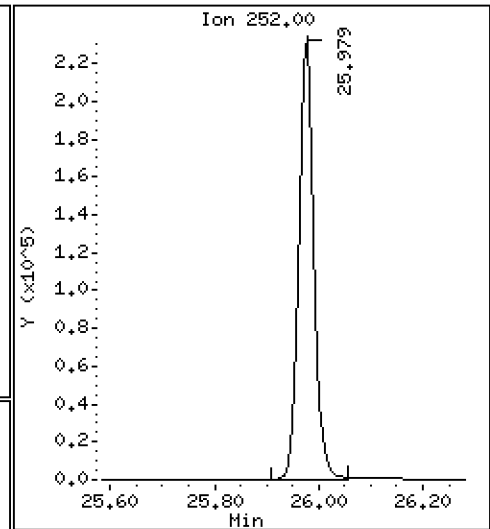
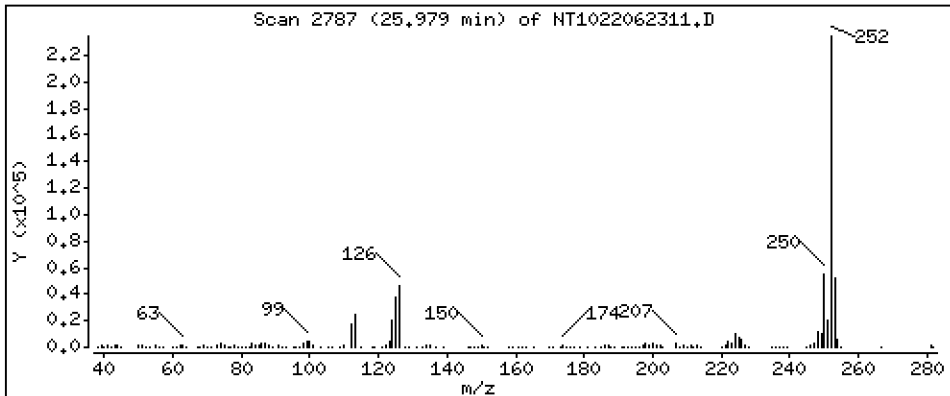
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,900 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

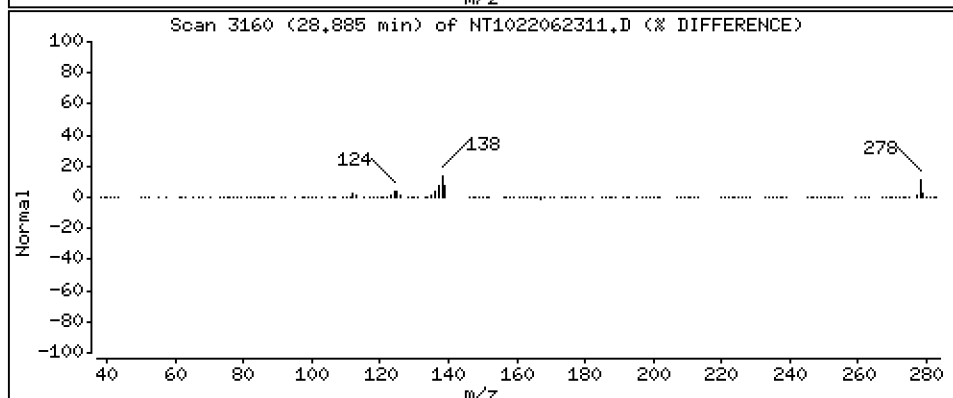
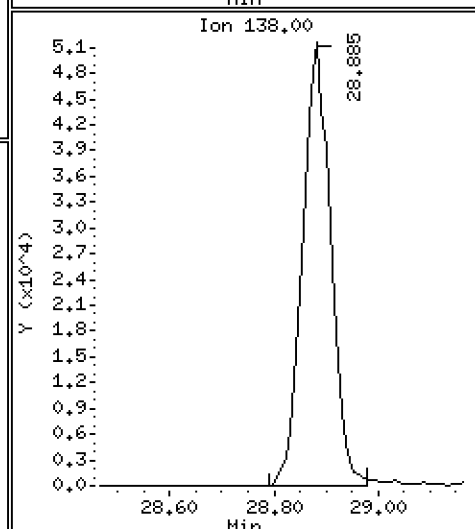
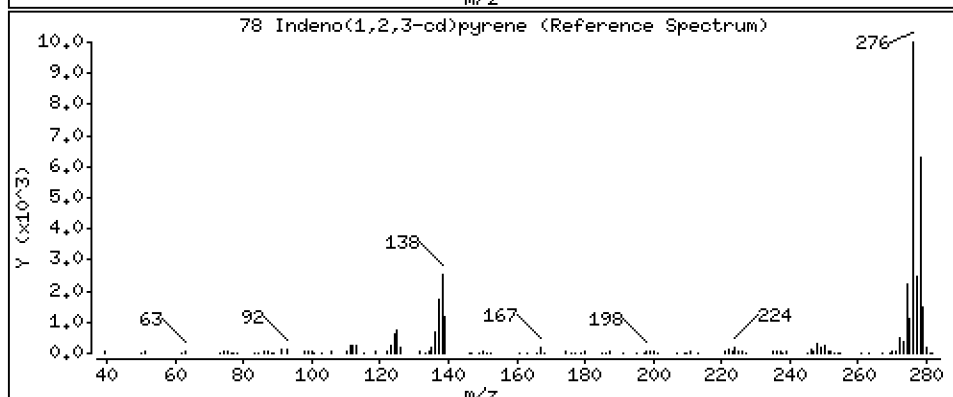
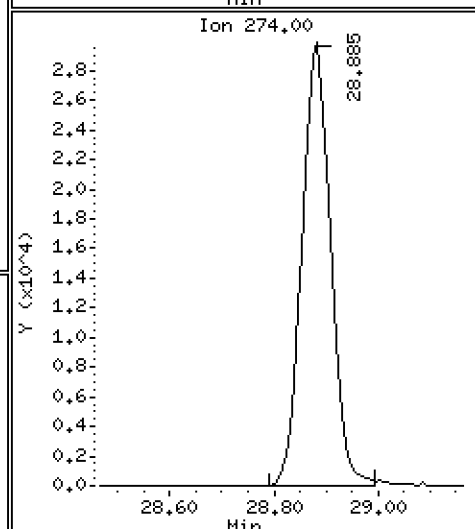
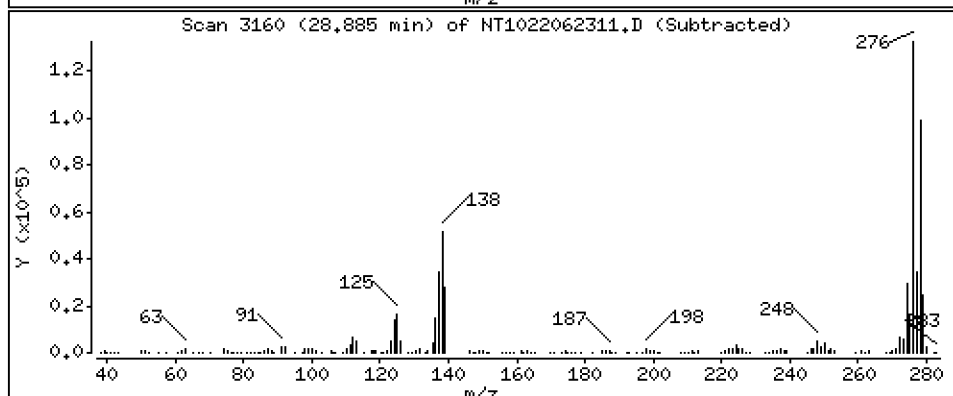
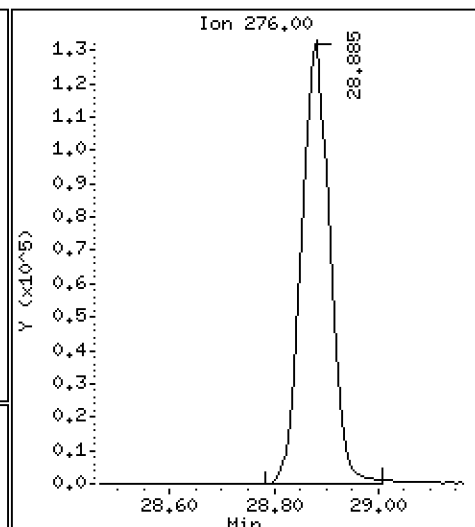
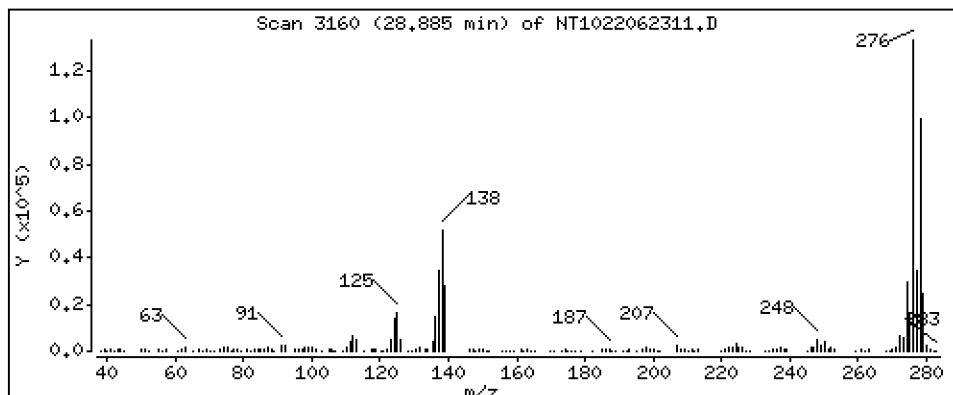
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,763 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

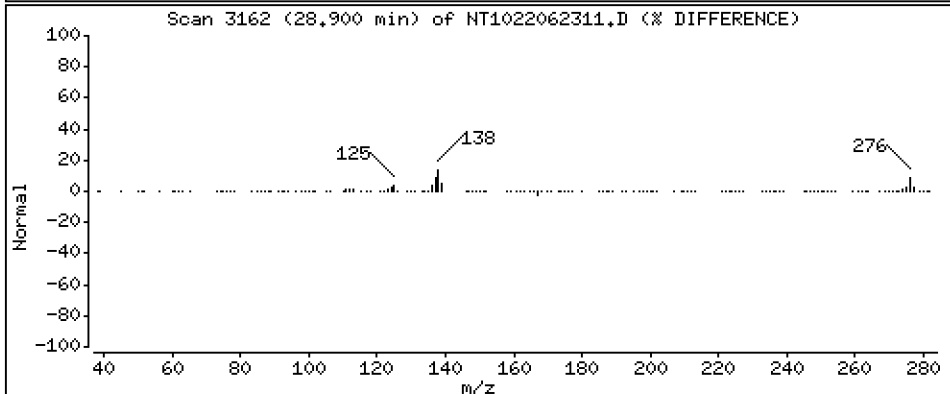
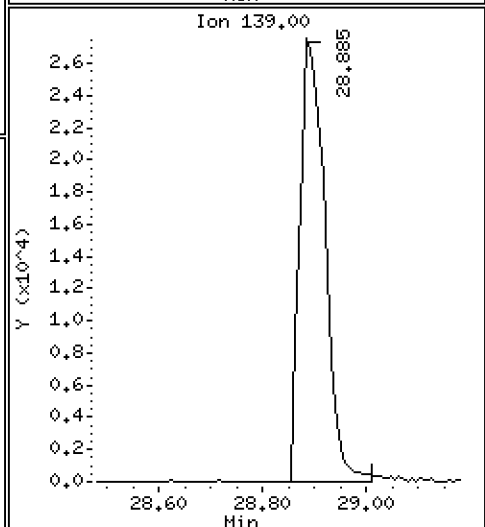
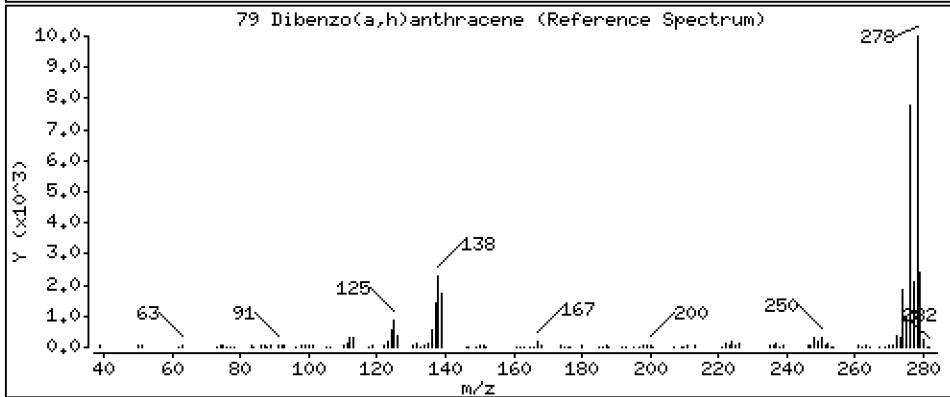
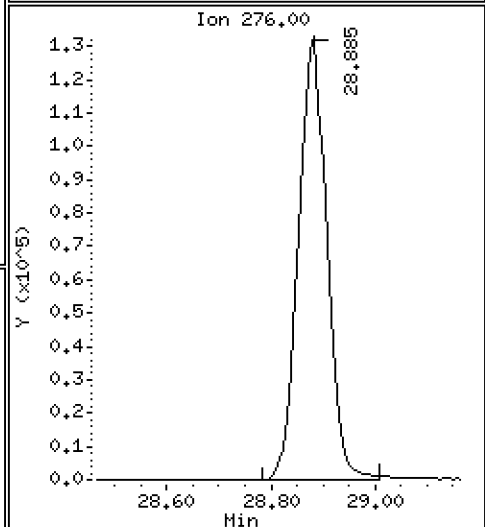
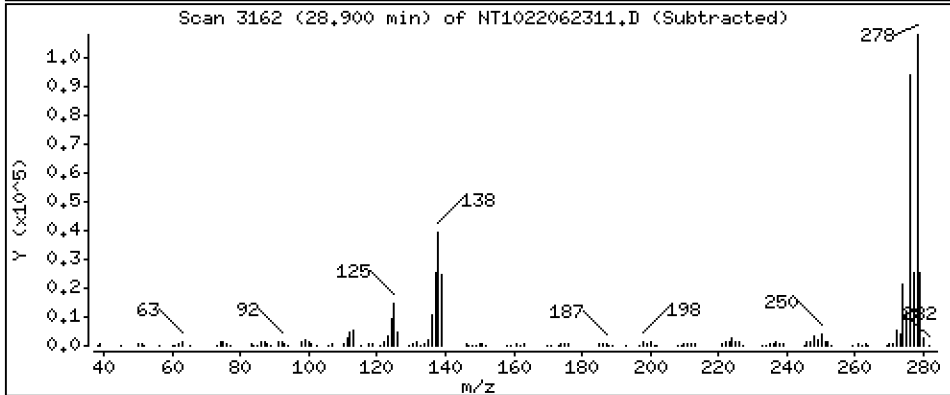
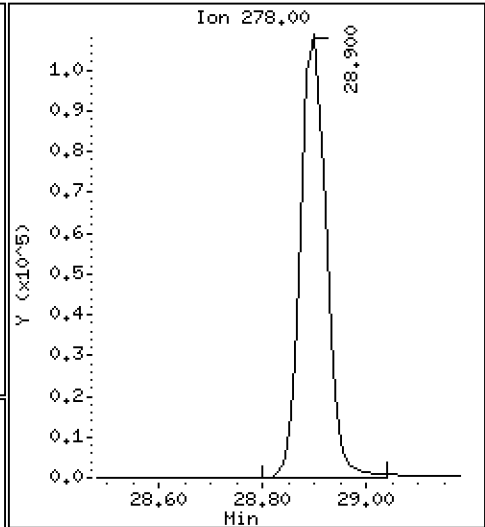
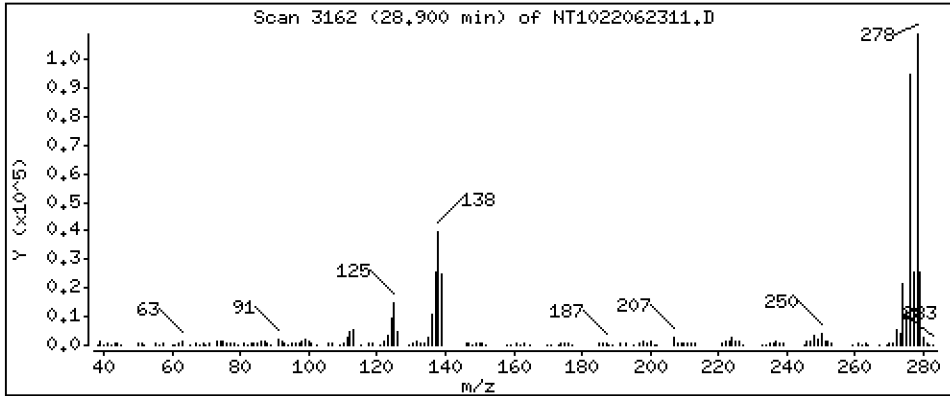
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,675 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

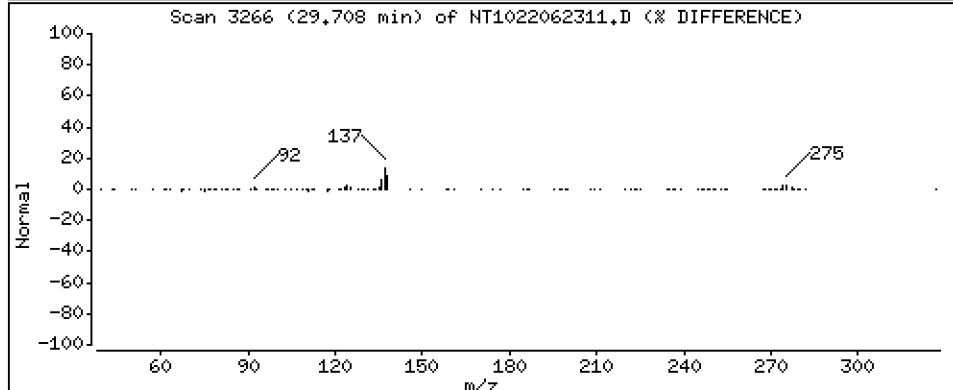
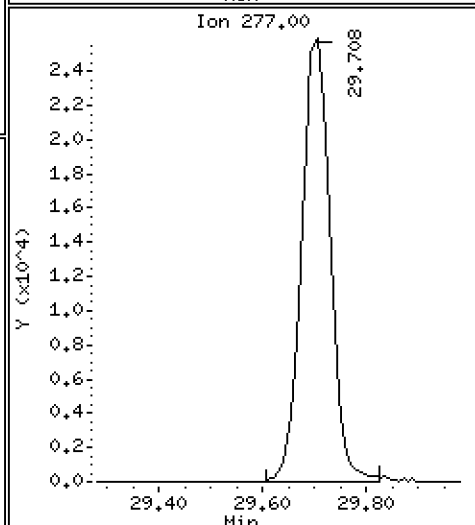
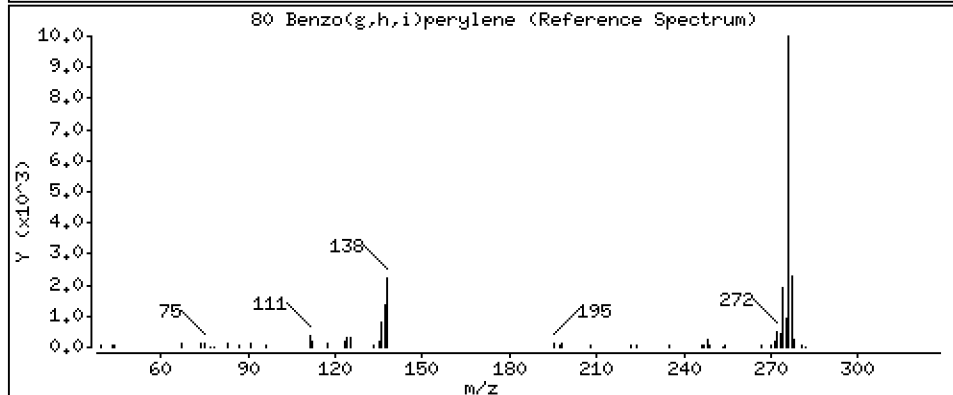
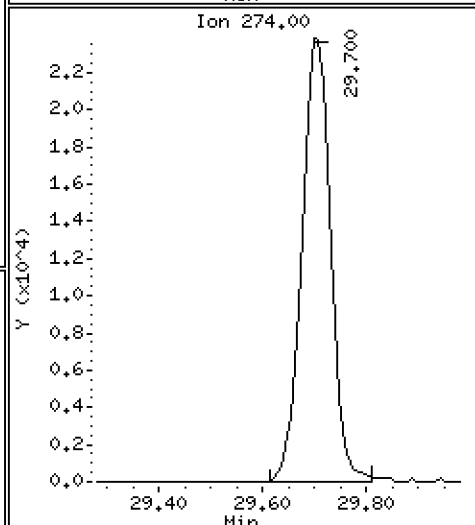
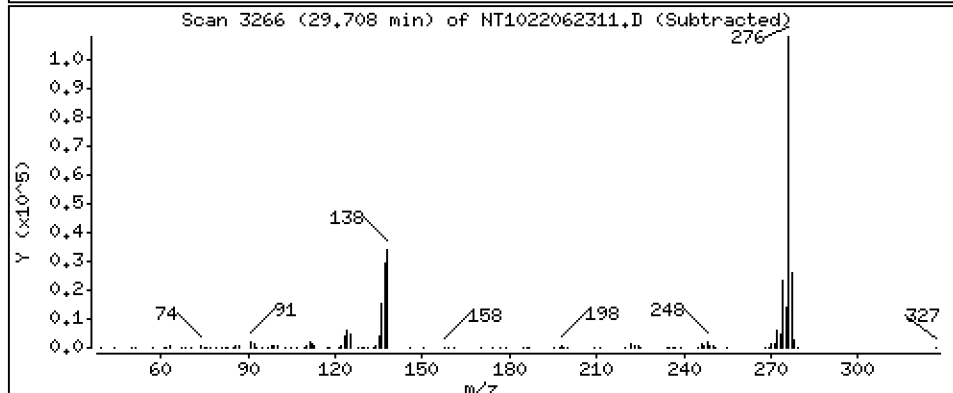
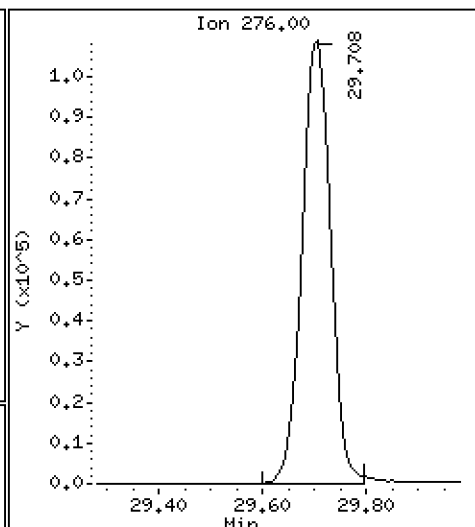
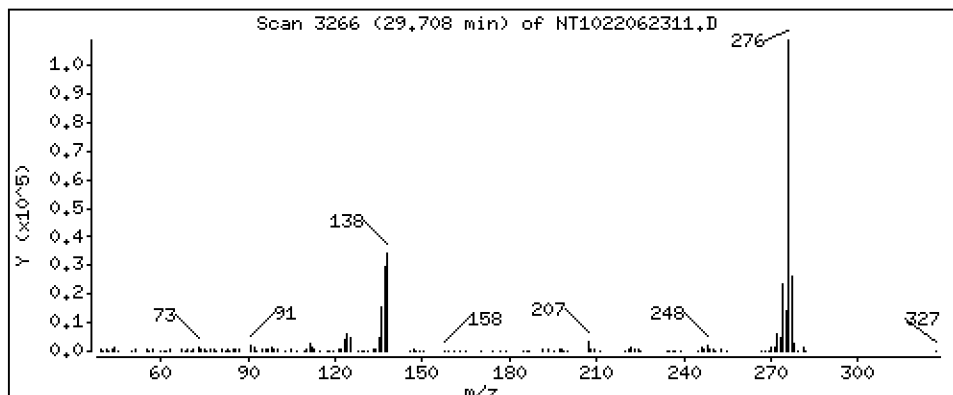
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,912 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

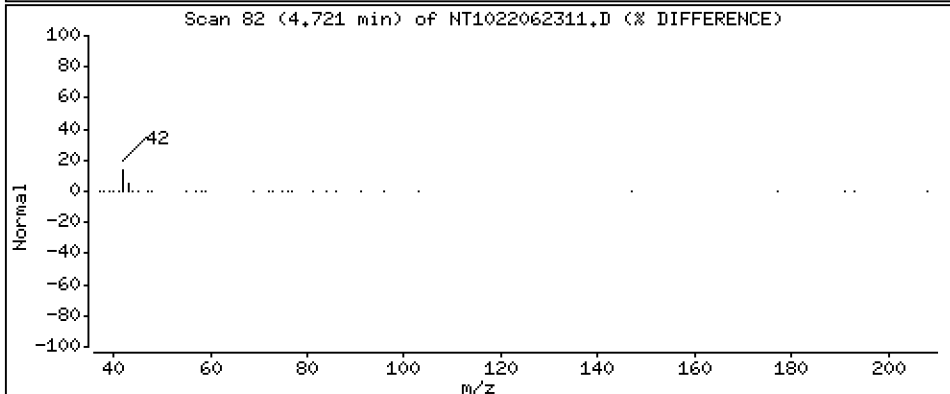
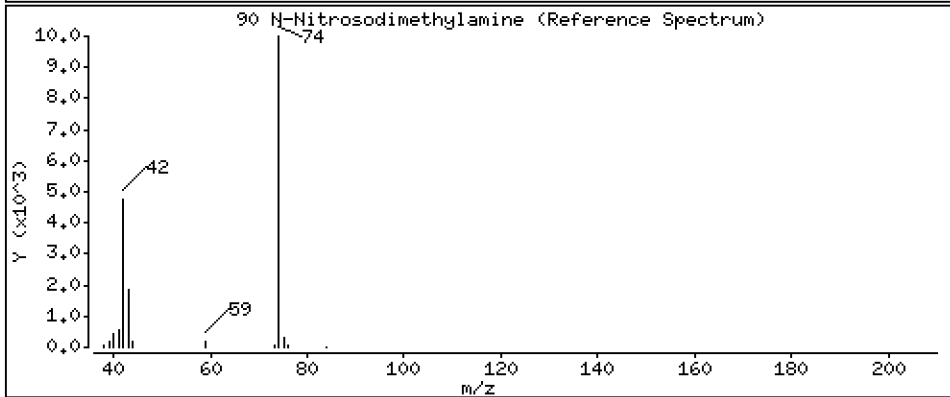
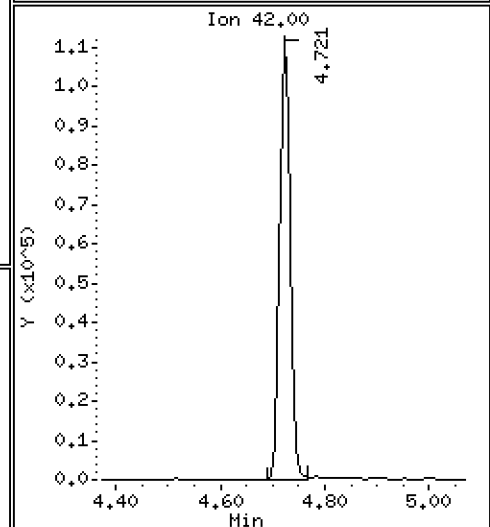
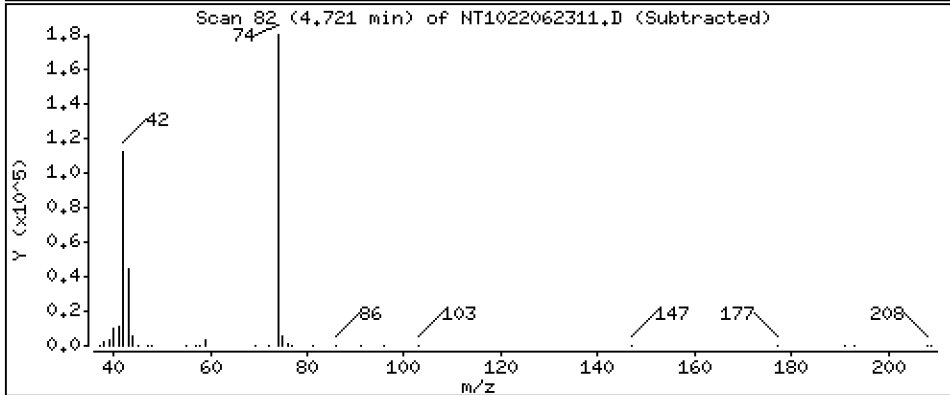
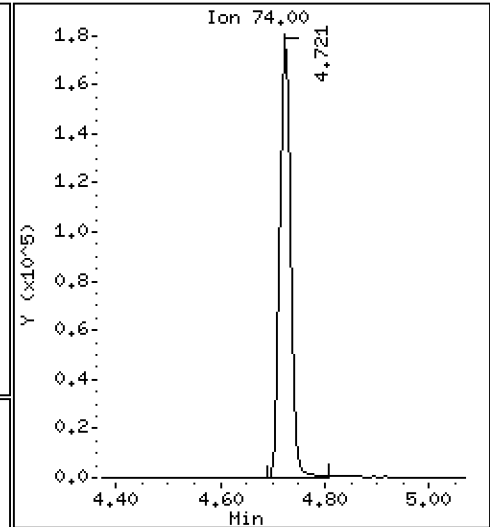
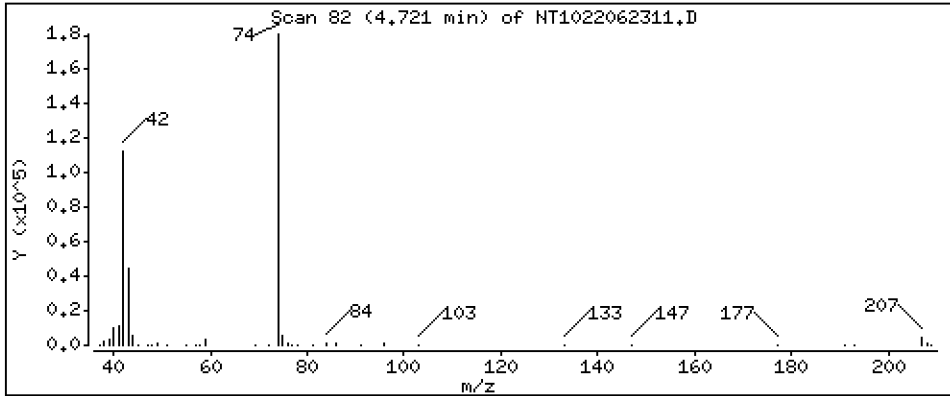
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 6,686 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

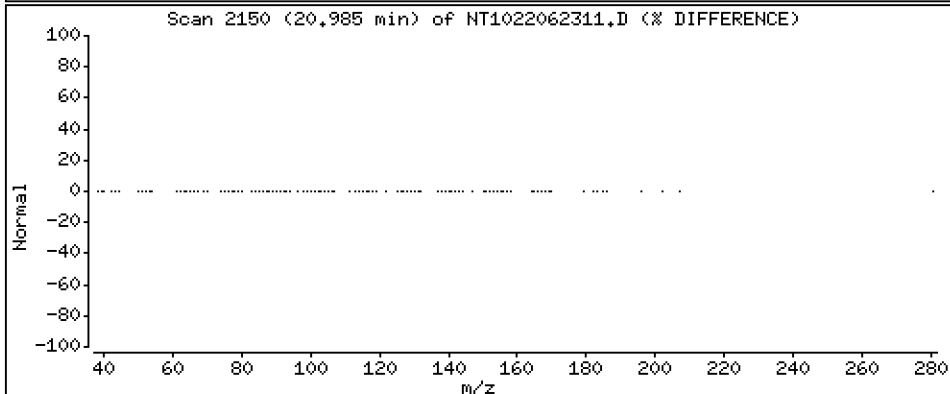
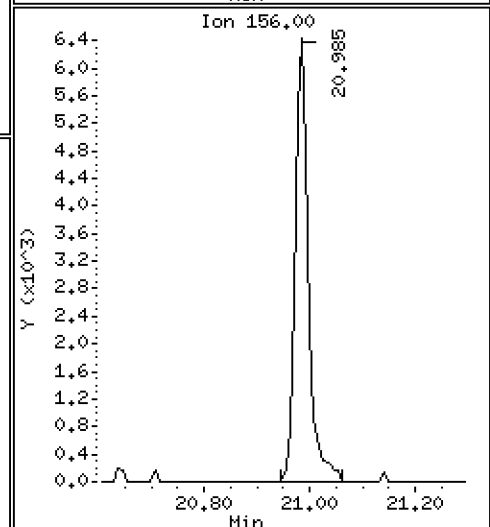
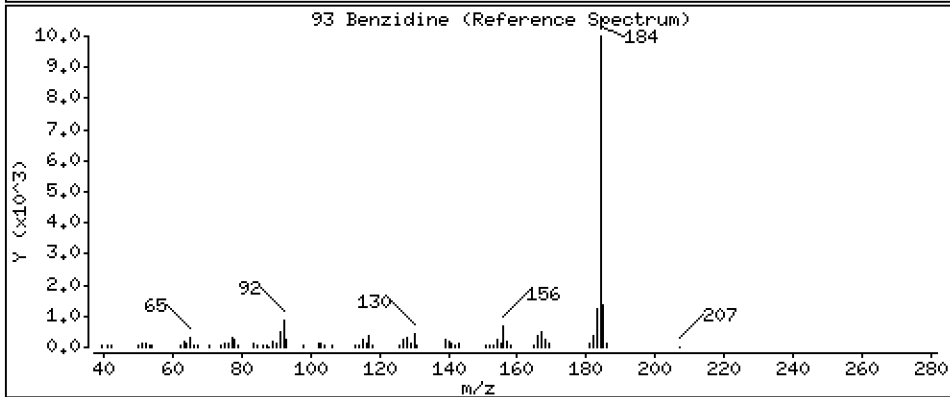
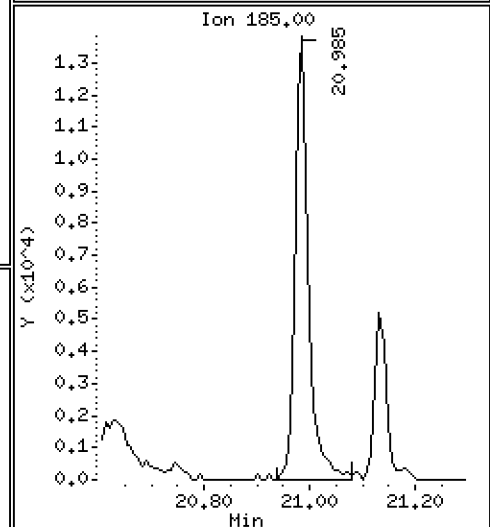
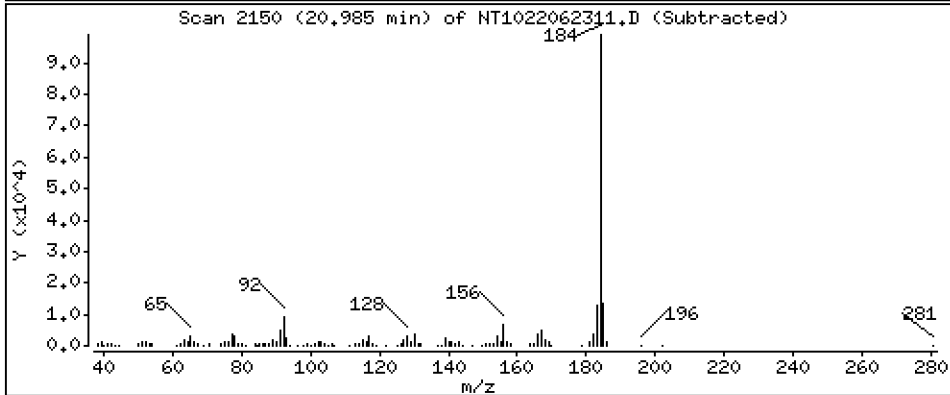
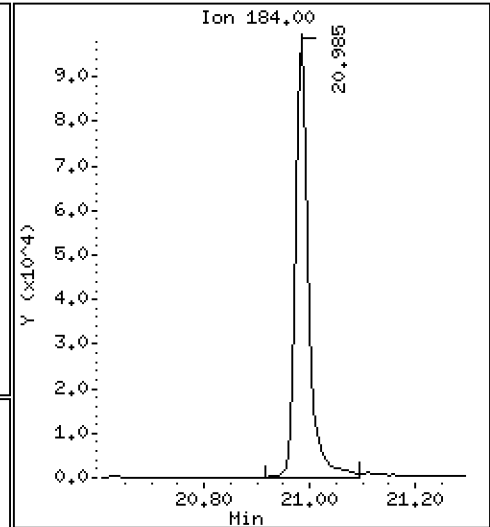
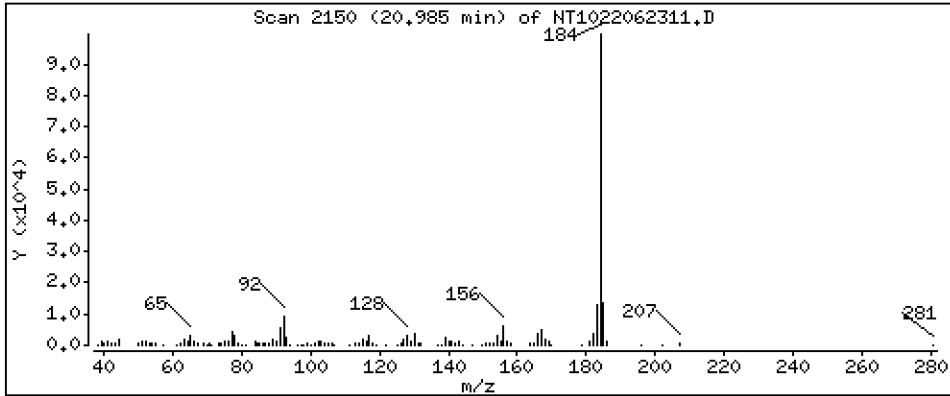
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 3,485 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

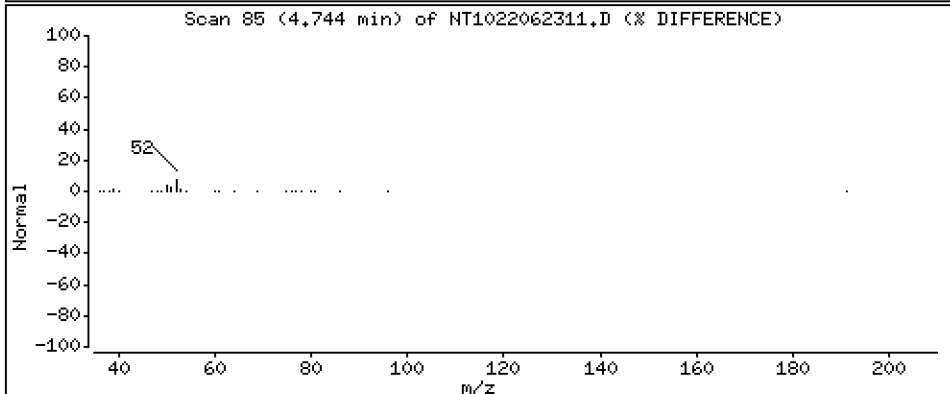
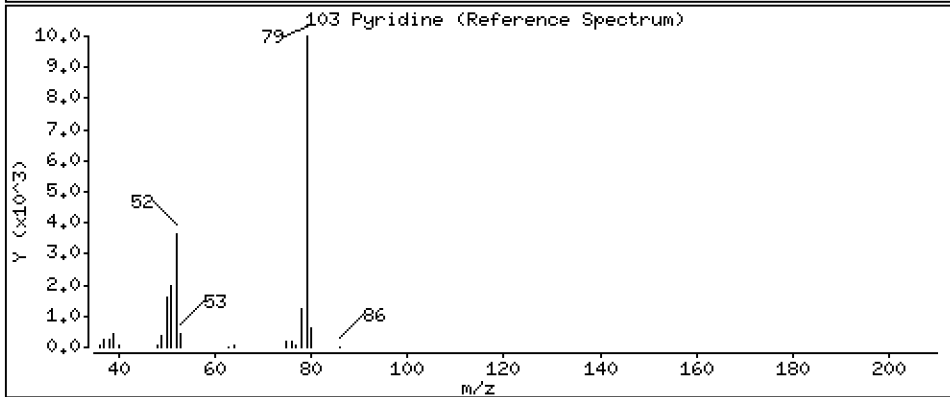
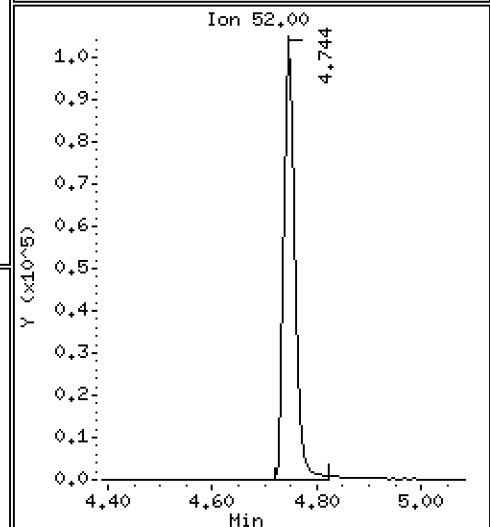
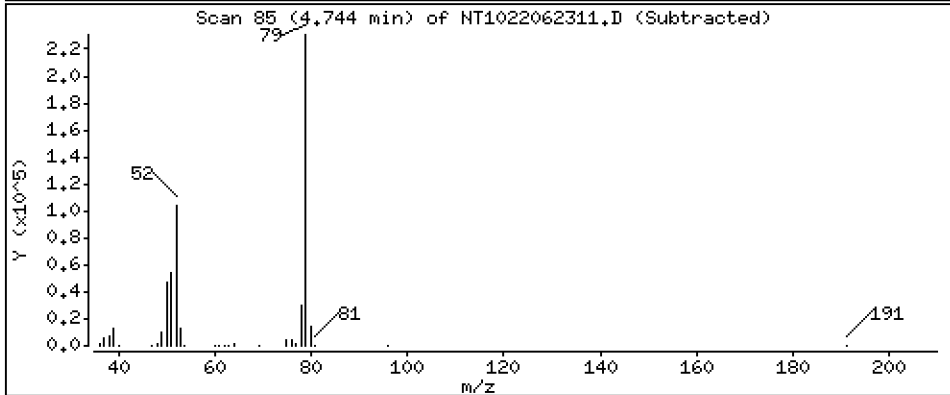
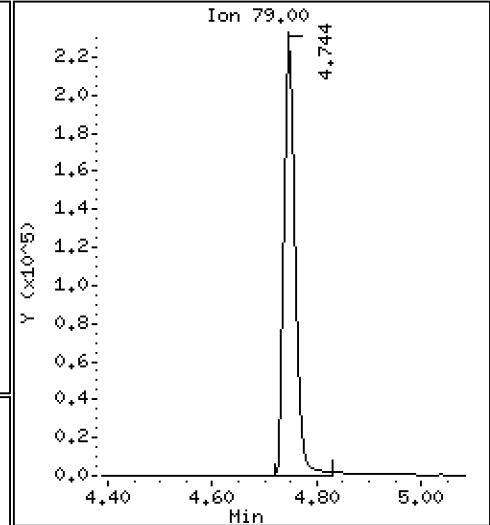
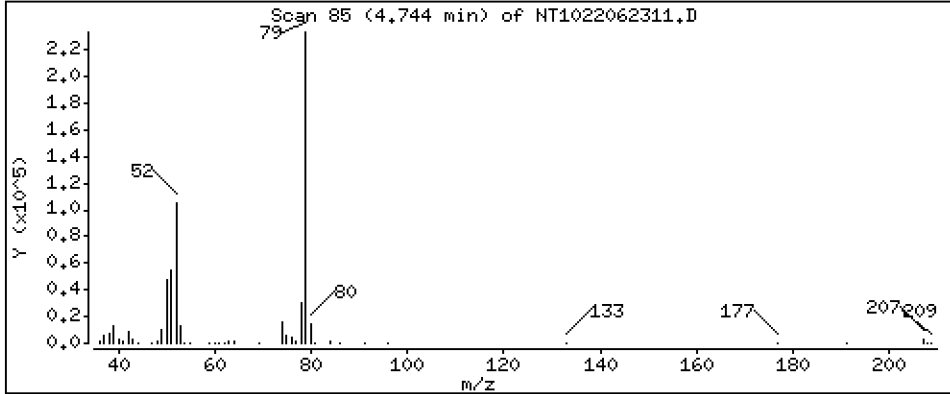
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 3,149 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

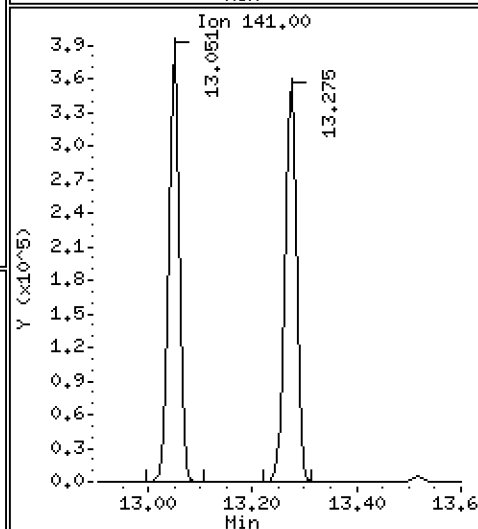
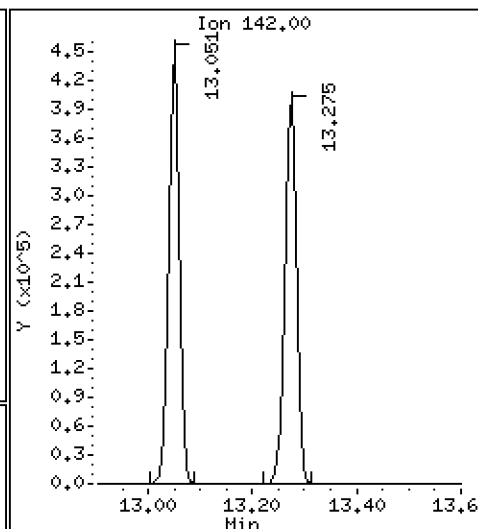
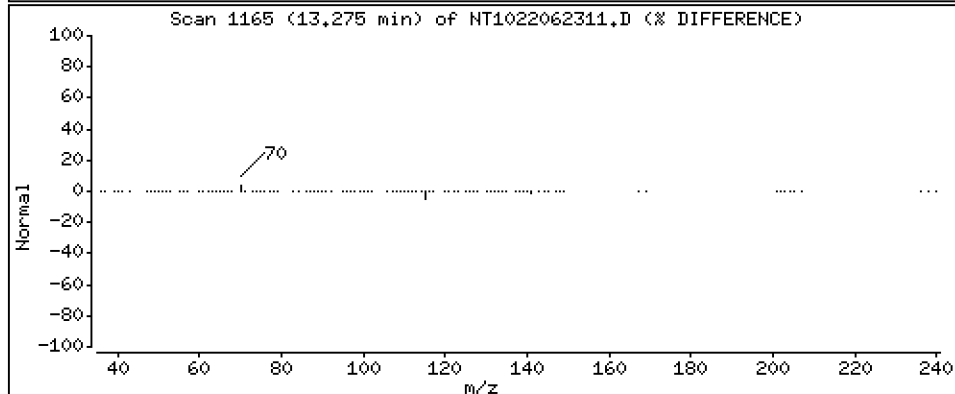
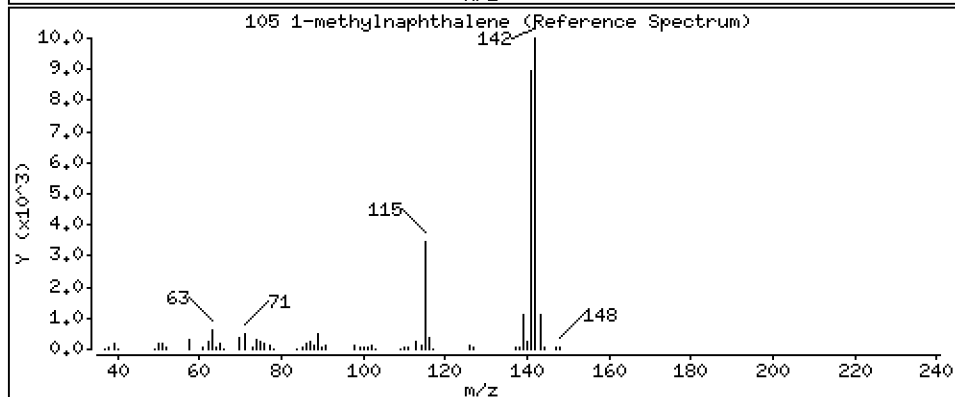
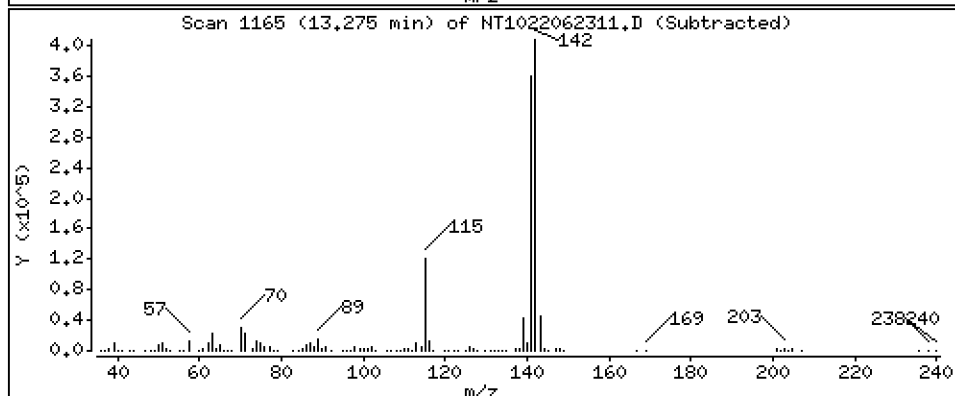
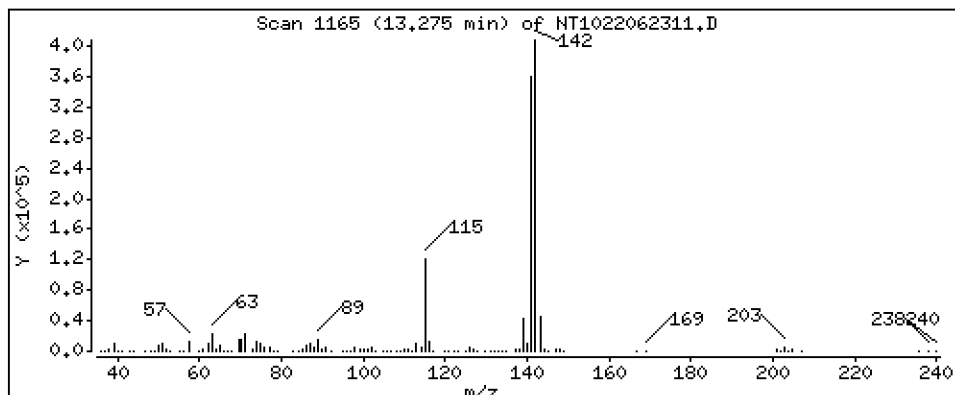
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,162 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

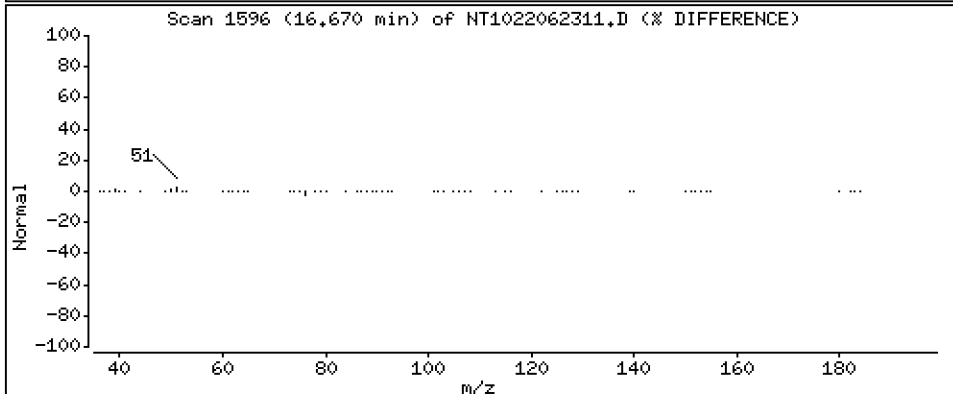
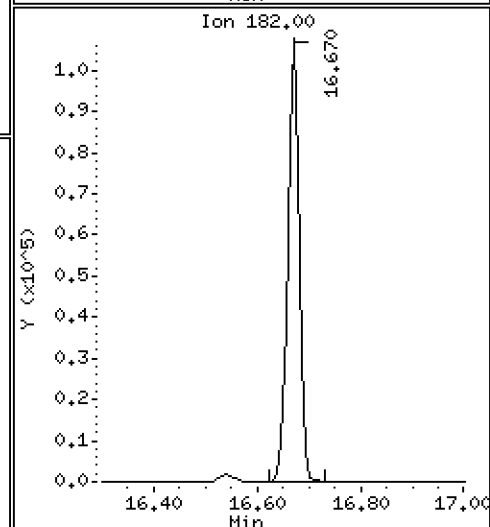
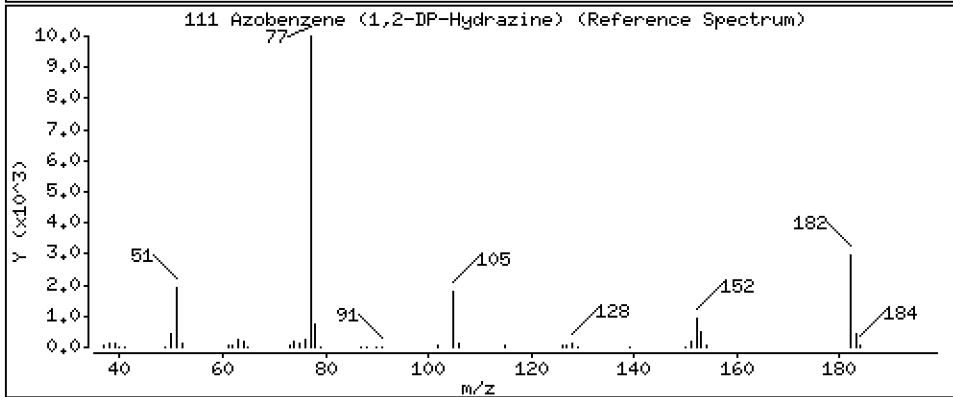
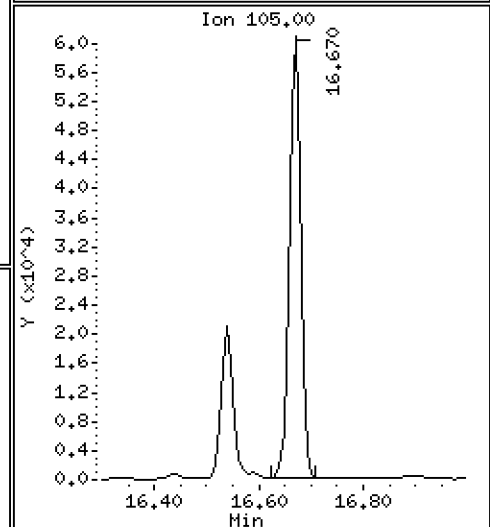
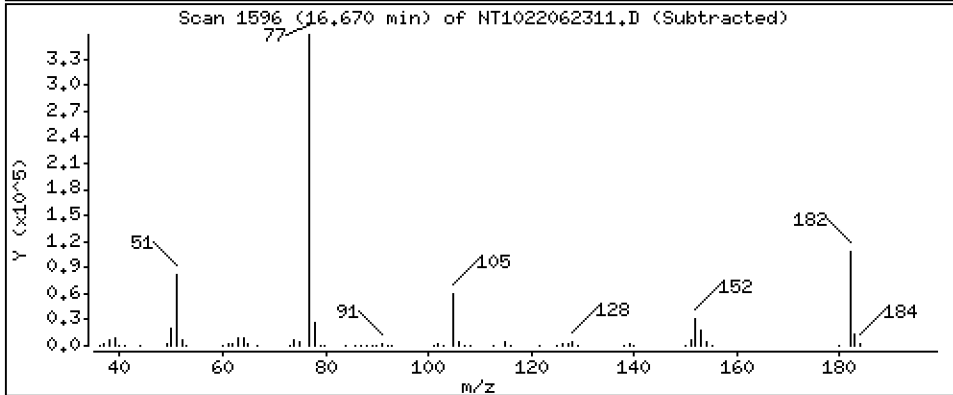
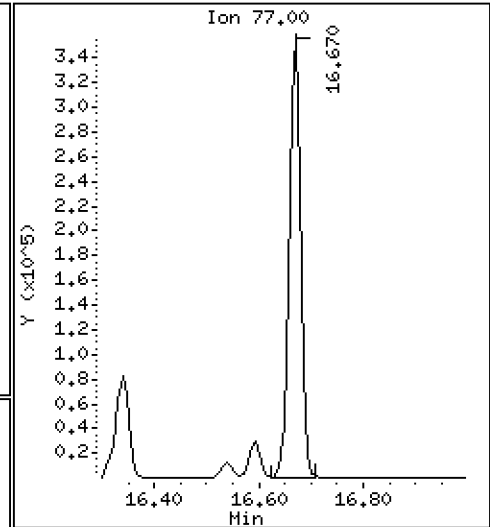
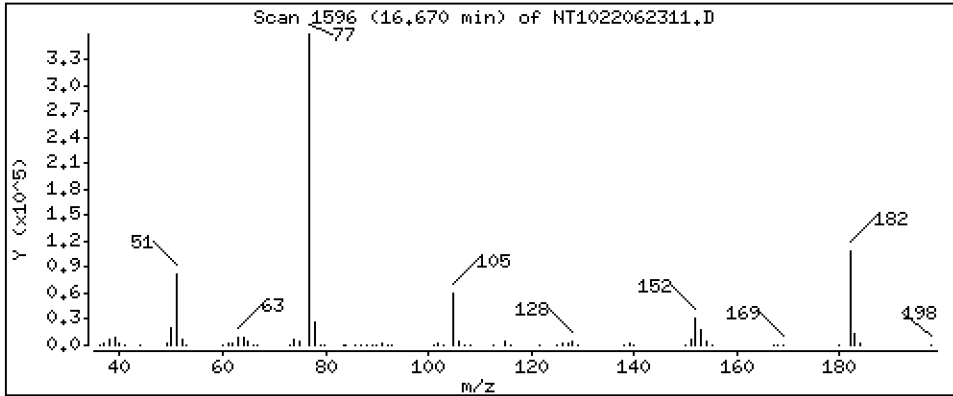
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4.882 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

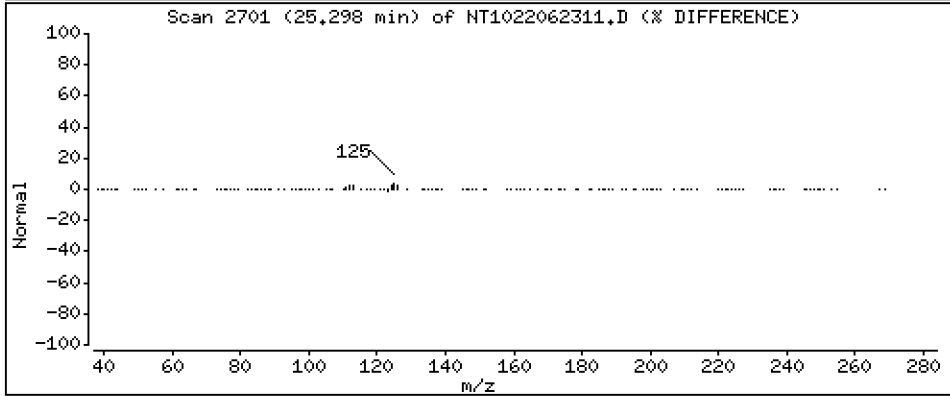
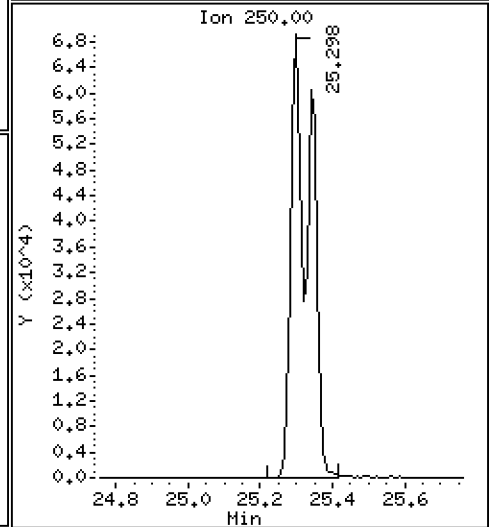
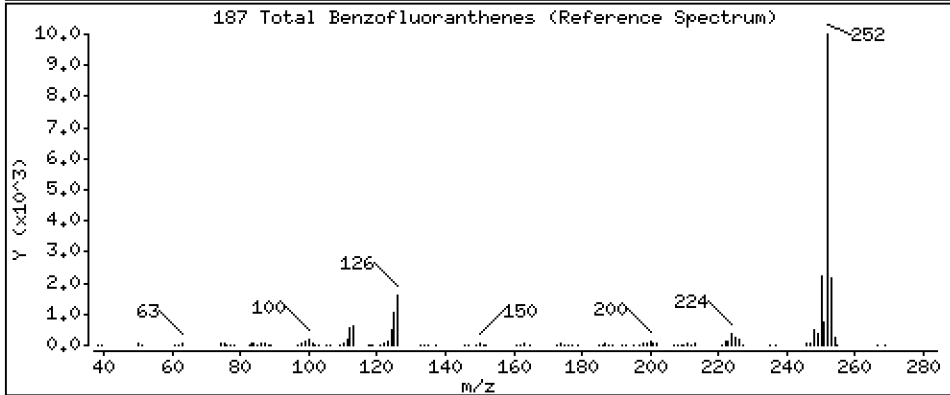
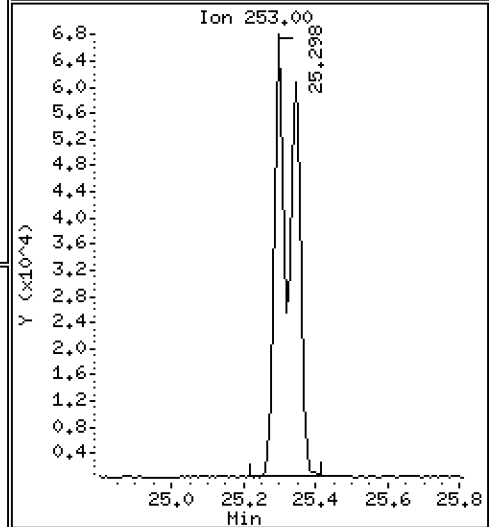
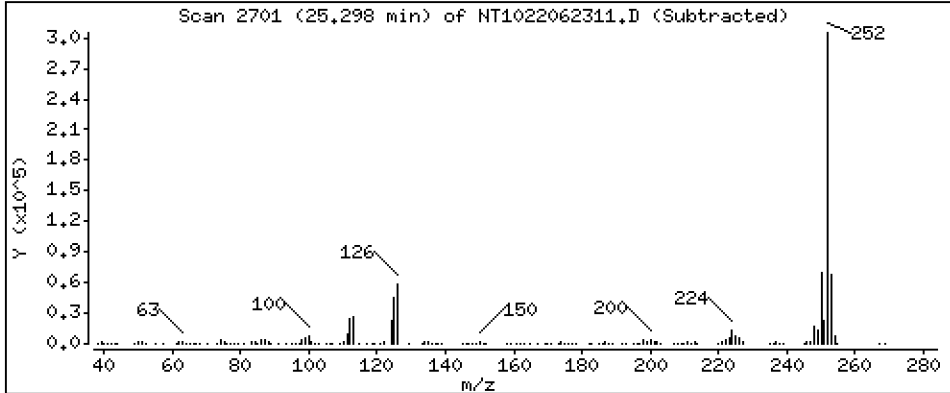
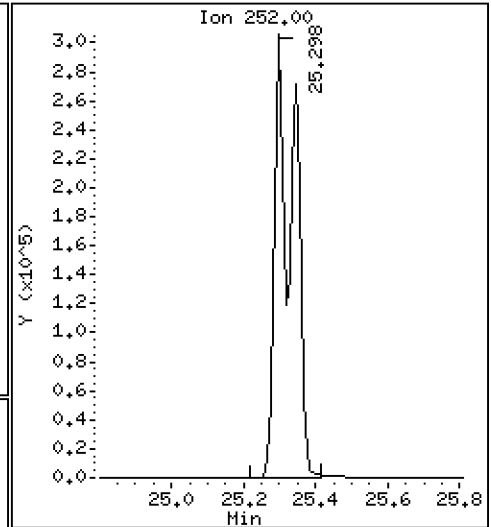
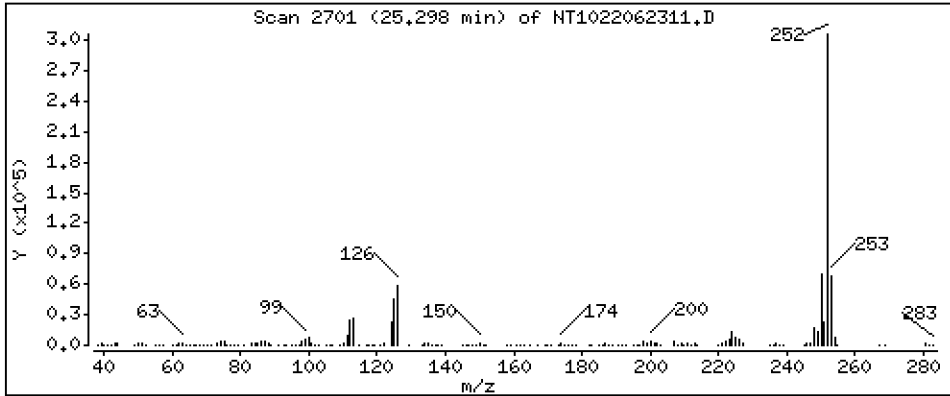
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,832 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

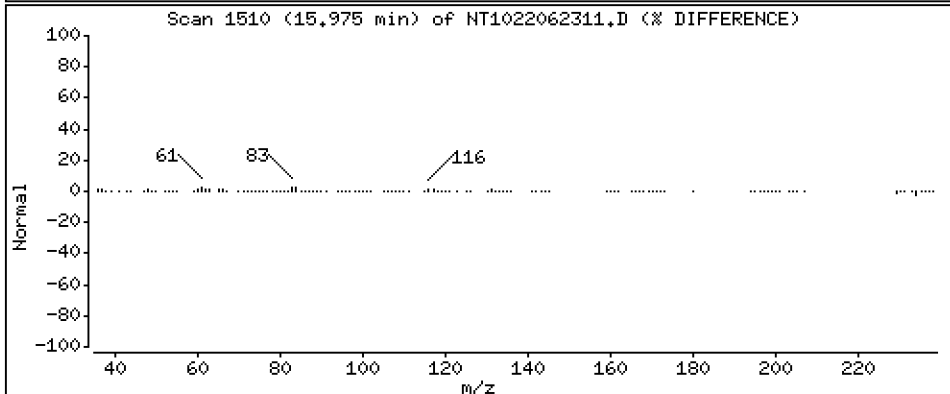
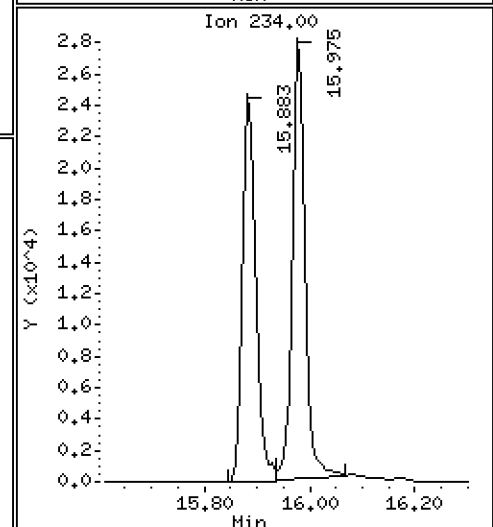
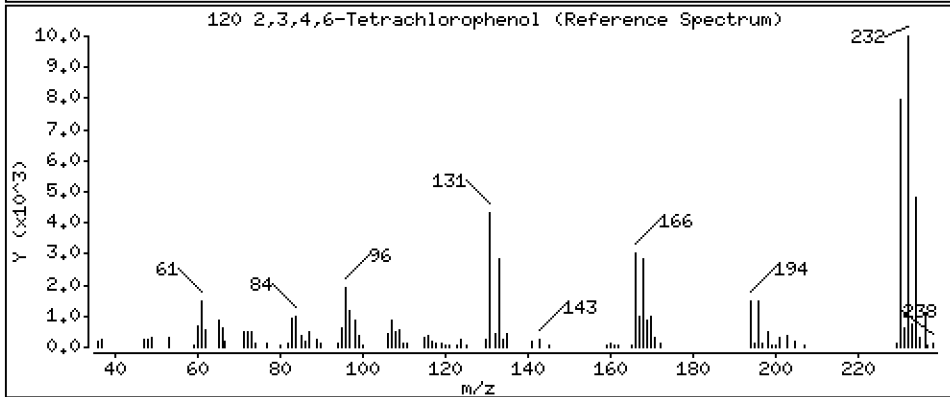
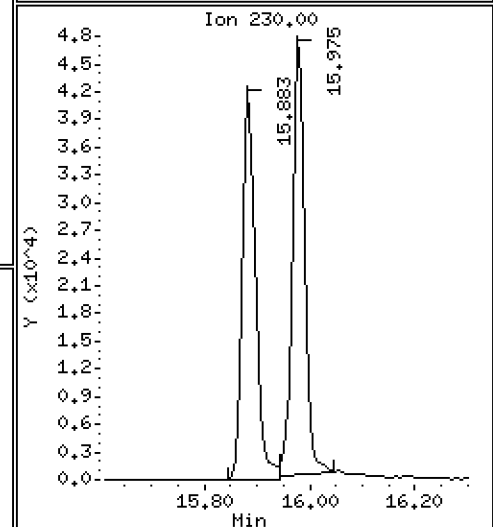
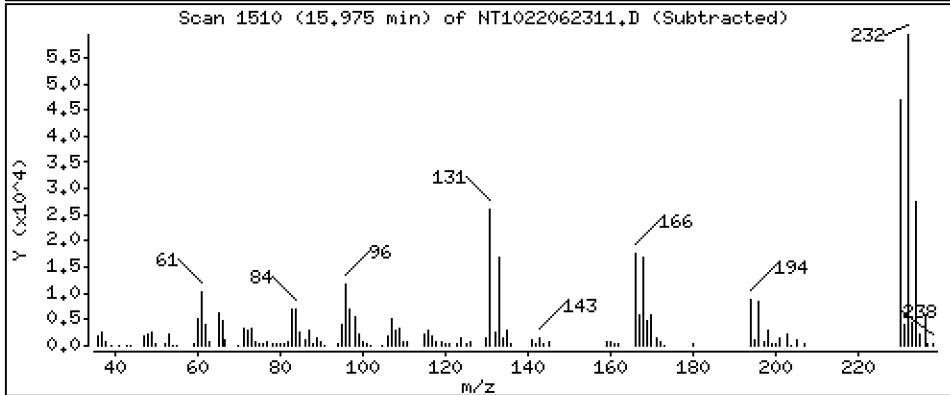
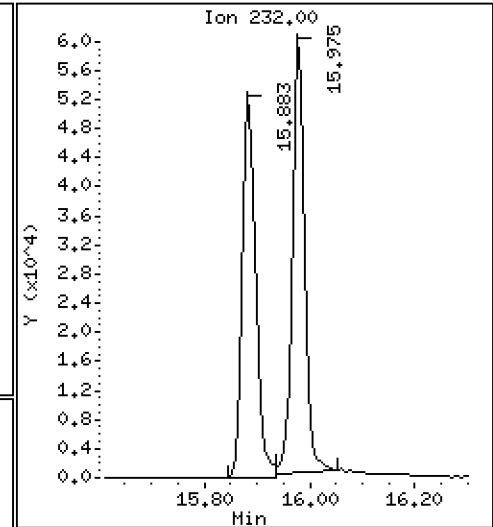
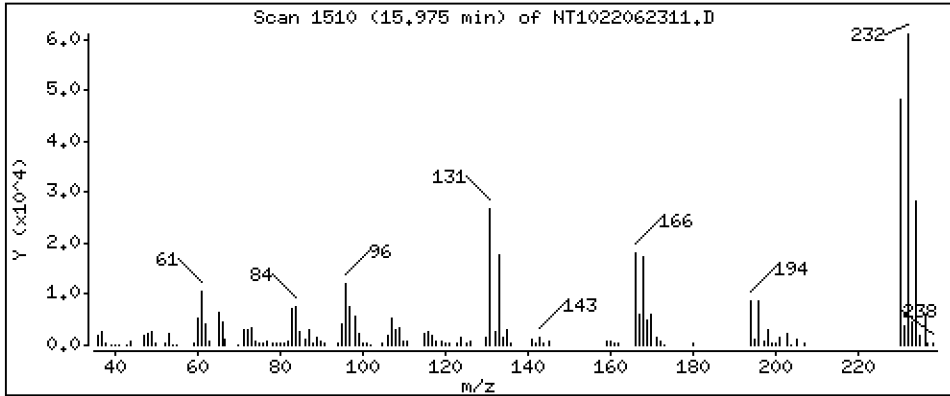
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,000 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220623.b\NT1022062311.D
 Lab Smp Id: SKF0270-SCV1
 Inj Date : 23-JUN-2022 15:20
 Operator : VTS
 Smp Info : SKF0270-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Meth Date : 24-Jun-2022 08:38 yev
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.898	6.891	(0.757)	447953	8.01867	8.019
\$ 2 Phenol-d5	99		8.482	8.475	(0.930)	653204	7.88040	7.880
3 Phenol	94		8.506	8.498	(0.933)	370864	5.13458	5.135
\$ 5 2-Chlorophenol-d4	132		8.753	8.745	(0.960)	431694	7.58399	7.584
4 Bis(2-Chloroethyl)ether	93		8.660	8.645	(0.950)	301080	5.79201	5.792
6 2-Chlorophenol	128		8.784	8.776	(0.963)	299371	5.19893	5.199
7 1,3-Dichlorobenzene	146		9.055	9.039	(0.993)	312260	5.01369	5.014
* 8 1,4-Dichlorobenzene-d4	152		9.117	9.101	(1.000)	152987	4.00000	
9 1,4-Dichlorobenzene	146		9.148	9.132	(1.003)	260034	5.29668	5.297
\$ 10 1,2-Dichlorobenzene-d4	152		9.474	9.466	(1.039)	174442	4.97336	4.973
12 1,2-Dichlorobenzene	146		9.505	9.489	(1.043)	265143	5.08744	5.087
11 Benzyl alcohol	108		9.380	9.373	(1.029)	157701	5.48088	5.481
14 2,2'-oxybis(1-Chloropropane)	121		9.683	9.676	(1.062)	87054	7.06310	7.063
13 2-Methylphenol	108		9.613	9.606	(1.054)	197804	4.44171	4.442
17 Hexachloroethane	117		10.095	10.079	(1.107)	115905	5.29620	5.296
16 N-Nitroso-di-n-propylamine	70		9.939	9.924	(1.090)	158444	5.11579	5.116
15 4-Methylphenol	108		9.893	9.877	(1.085)	218560	4.59234	4.592
\$ 18 Nitrobenzene-d5	82		10.203	10.196	(0.879)	266032	4.94671	4.947
19 Nitrobenzene	77		10.242	10.227	(0.883)	278529	5.13849	5.138
20 Isophorone	82		10.684	10.677	(0.921)	581184	7.41183	7.412
21 2-Nitrophenol	139		10.876	10.859	(0.937)	175569	5.12801	5.128
22 2,4-Dimethylphenol	107		10.936	10.919	(0.942)	196968	4.73580	4.736
23 Bis(2-Chloroethoxy)methane	93		11.123	11.106	(0.959)	270186	5.73516	5.735
24 Benzoic acid	105		11.106	11.140	(0.957)	143508	6.62128	6.621
25 2,4-Dichlorophenol	162		11.335	11.326	(0.977)	234378	5.54474	5.545
26 1,2,4-Trichlorobenzene	180		11.519	11.504	(0.993)	221798	4.88841	4.888
* 27 Naphthalene-d8	136		11.604	11.589	(1.000)	505418	4.00000	
28 Naphthalene	128		11.643	11.635	(1.003)	639883	4.94683	4.947
29 4-Chloroaniline	127		11.774	11.758	(1.015)	265378	4.64633	4.646
30 Hexachlorobutadiene	225		12.006	11.990	(1.035)	115567	5.33913	5.339
31 4-Chloro-3-methylphenol	107		12.756	12.741	(1.099)	244559	4.85270	4.853
32 2-Methylnaphthalene	142		13.050	13.035	(1.125)	670266	5.21373	5.214
33 Hexachlorocyclopentadiene	237		13.515	13.499	(0.887)	55412	3.32629	3.326

Compounds	QUANT SIG					CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
34 2,4,6-Trichlorophenol	196	13.677	13.662	(0.898)	170978	5.24236	5.242	
35 2,4,5-Trichlorophenol	196	13.755	13.739	(0.903)	172769	4.42727	4.427	
§ 36 2-Fluorobiphenyl	172	13.832	13.817	(0.908)	683222	5.26116	5.261	
37 2-Chloronaphthalene	162	14.049	14.033	(0.922)	625328	5.46235	5.462	
38 2-Nitroaniline	65	14.304	14.289	(0.939)	163591	5.34222	5.342	
39 Dimethylphthalate	163	14.738	14.714	(0.967)	500509	4.97347	4.973	
40 Acenaphthylene	152	14.923	14.908	(0.980)	750906	4.47637	4.476	
41 2,6-Dinitrotoluene	165	14.877	14.862	(0.977)	122846	5.25597	5.256	
* 42 Acenaphthene-d10	164	15.233	15.217	(1.000)	286969	4.00000		
43 3-Nitroaniline	138	15.163	15.148	(0.995)	147993	5.37872	5.379	
44 Acenaphthene	153	15.302	15.287	(1.005)	412233	4.93939	4.939	
45 2,4-Dinitrophenol	184	15.380	15.364	(1.010)	21043	2.02332	2.023	
46 Dibenzofuran	168	15.635	15.619	(1.026)	708335	5.34049	5.340	
47 4-Nitrophenol	109	15.511	15.488	(1.018)	40185	4.43466	4.435	
48 2,4-Dinitrotoluene	165	15.689	15.673	(1.030)	165818	5.30810	5.308	
50 Diethylphthalate	149	16.199	16.184	(1.063)	463792	5.37240	5.372	
49 Fluorene	166	16.354	16.331	(1.074)	728048	4.59382	4.594	
51 4-Chlorophenyl-phenylether	204	16.338	16.323	(1.073)	376282	5.40653	5.407	
52 4-Nitroaniline	138	16.439	16.423	(1.079)	140376	5.09381	5.094	
53 4,6-Dinitro-2-methylphenol	198	16.539	16.523	(0.904)	85433	4.31421	4.314	
54 N-Nitrosodiphenylamine	169	16.593	16.570	(0.907)	395951	4.98277	4.983	
§ 55 2,4,6-Tribromophenol	330	16.894	16.870	(1.109)	90754	6.94559	6.946	
56 4-Bromophenyl-phenylether	248	17.348	17.333	(0.948)	200887	5.45634	5.456	
57 Hexachlorobenzene	284	17.673	17.650	(0.966)	171847	5.11363	5.114	
58 Pentachlorophenol	266	18.037	18.014	(0.986)	24841	3.23849	3.238	
* 59 Phenanthrene-d10	188	18.300	18.277	(1.000)	505363	4.00000		
60 Phenanthrene	178	18.347	18.323	(1.003)	649666	4.89322	4.893	
61 Anthracene	178	18.439	18.416	(1.008)	683072	4.82784	4.828	
62 Carbazole	167	18.772	18.749	(1.026)	726709	5.56744	5.567	
63 Di-n-butylphthalate	149	19.584	19.554	(1.070)	1082696	5.32836	5.328	
64 Fluoranthene	202	20.753	20.722	(0.887)	1048305	4.19233	4.192	
65 Pyrene	202	21.178	21.147	(0.905)	1006992	4.57159	4.572	
§ 66 Terphenyl-d14	244	21.465	21.441	(0.918)	561068	4.66854	4.669	
67 Butylbenzylphthalate	149	22.401	22.371	(0.958)	338140	4.86029	4.860	
68 Benzo(a)anthracene	228	23.362	23.331	(0.999)	707995	4.85155	4.852	
* 69 Chrysene-d12	240	23.393	23.354	(1.000)	344386	4.00000		
70 3,3'-Dichlorobenzidine	252	23.315	23.284	(0.997)	559597	11.7678	11.77	
71 Chrysene	228	23.439	23.400	(1.002)	479984	4.72467	4.725	
72 bis(2-Ethylhexyl)phthalate	149	23.447	23.416	(0.959)	366071	5.06090	5.061	
* 134 Di-n-octylphthalate-d4	153	24.453	24.422	(1.000)	654412	4.00000		
73 Di-n-octylphthalate	149	24.469	24.430	(1.001)	818367	5.50195	5.502	
74 Benzo(b)fluoranthene	252	25.297	25.258	(0.969)	600074	4.95534	4.955	
75 Benzo(k)fluoranthene	252	25.344	25.305	(0.971)	612767	5.26231	5.262	
76 Benzo(a)pyrene	252	25.979	25.932	(0.996)	485665	4.90022	4.900	
* 77 Perylene-d12	264	26.095	26.048	(1.000)	267390	4.00000		
78 Indeno(1,2,3-cd)pyrene	276	28.884	28.814	(1.107)	503980	4.76253	4.763	
79 Dibenzo(a,h)anthracene	278	28.900	28.830	(1.107)	378728	4.67505	4.675	
80 Benzo(g,h,i)perylene	276	29.707	29.630	(1.138)	415473	4.91157	4.912	
90 N-Nitrosodimethylamine	74	4.720	4.720	(0.518)	244386	6.68622	6.686	
91 Aniline	93	Compound Not Detected.						
93 Benzidine	184	20.985	20.954	(0.897)	177079	3.48536	3.485	
103 Pyridine	79	4.743	4.736	(0.520)	326265	3.14892	3.149	
105 1-methylnaphthalene	142	13.275	13.252	(1.144)	651979	5.16205	5.162	
111 Azobenzene (1,2-DP-Hydrazine)	77	16.670	16.647	(1.094)	559493	4.88168	4.882	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.297	25.305	(0.969)	1110070	9.83152	9.832
120 2,3,4,6-Tetrachlorophenol	232	15.975	15.959	(1.049)	100330	3.99993	4.000

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-JUN-2022
 Lab File ID: NT1022062311.D Calibration Time: 16:38
 Lab Smp Id: SKF0270-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	149714	74857	299428	152987	2.19
27 Naphthalene-d8	491315	245658	982630	505418	2.87
42 Acenaphthene-d10	286589	143295	573178	286969	0.13
59 Phenanthrene-d10	498820	249410	997640	505363	1.31
69 Chrysene-d12	311295	155648	622590	344386	10.63
134 Di-n-octylphthala	577982	288991	1155964	654412	13.22
77 Perylene-d12	218550	109275	437100	267390	22.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.12	0.17
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.13
42 Acenaphthene-d10	15.22	14.72	15.72	15.23	0.10
59 Phenanthrene-d10	18.28	17.78	18.78	18.30	0.13
69 Chrysene-d12	23.35	22.85	23.85	23.39	0.17
134 Di-n-octylphthala	24.42	23.92	24.92	24.45	0.13
77 Perylene-d12	26.05	25.55	26.55	26.10	0.18

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

REVIEW SUMMARY FOR FILE - NT1022062311.D

Lab ID: SKF0270-SCV1
nt10.i, ABN.m, 23-JUN-2022 15:20

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022062313.D

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

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



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FF00062

Laboratory ID: SKG0139-LCV1

Sequence: SKG0139

Standard ID: K005649

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Naphthalene	0.50000	0.5	6.2	50.00
2-Methylnaphthalene	0.50000	0.4	-13.6	50.00
Acenaphthene	0.50000	0.5	3.9	50.00
Pentachlorophenol	1.0000	0.07	-93.2	50.00
Phenanthrene	0.50000	0.5	9.8	50.00
Fluoranthene	0.50000	0.8	64.9	50.00
Benzo(a)anthracene	0.50000	0.7	37.2	50.00
Chrysene	0.50000	0.7	33.3	50.00
Benzo(b)fluoranthene	0.50000	0.5	-3.8	50.00
Benzo(k)fluoranthene	0.50000	0.6	17.0	50.00
Benzo(a)pyrene	0.50000	0.5	0.3	50.00
Indeno(1,2,3-cd)pyrene	0.50000	0.6	11.1	50.00
Dibenzo(a,h)anthracene	0.50000	0.6	23.7	50.00
1-Methylnaphthalene	0.50000	0.4	-22.0	50.00
2-Fluorophenol	0.75000	0.811	8.2	50.00
Phenol-d5	0.75000	0.550	-26.7	50.00
2-Chlorophenol-d4	0.75000	0.747	-0.4	50.00
1,2-Dichlorobenzene-d4	0.50000	0.576	15.2	50.00
Nitrobenzene-d5	0.50000	0.481	-3.8	50.00
2-Fluorobiphenyl	0.50000	0.540	8.0	50.00
2,4,6-Tribromophenol	0.75000	0.352	-53.1	50.00
p-Terphenyl-d14	0.50000	1.03	106	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220714.6\NT1022071403.D

Date: 14-JUL-2022 15:00

Client ID:

Sample Info: SKC0139-LCW1

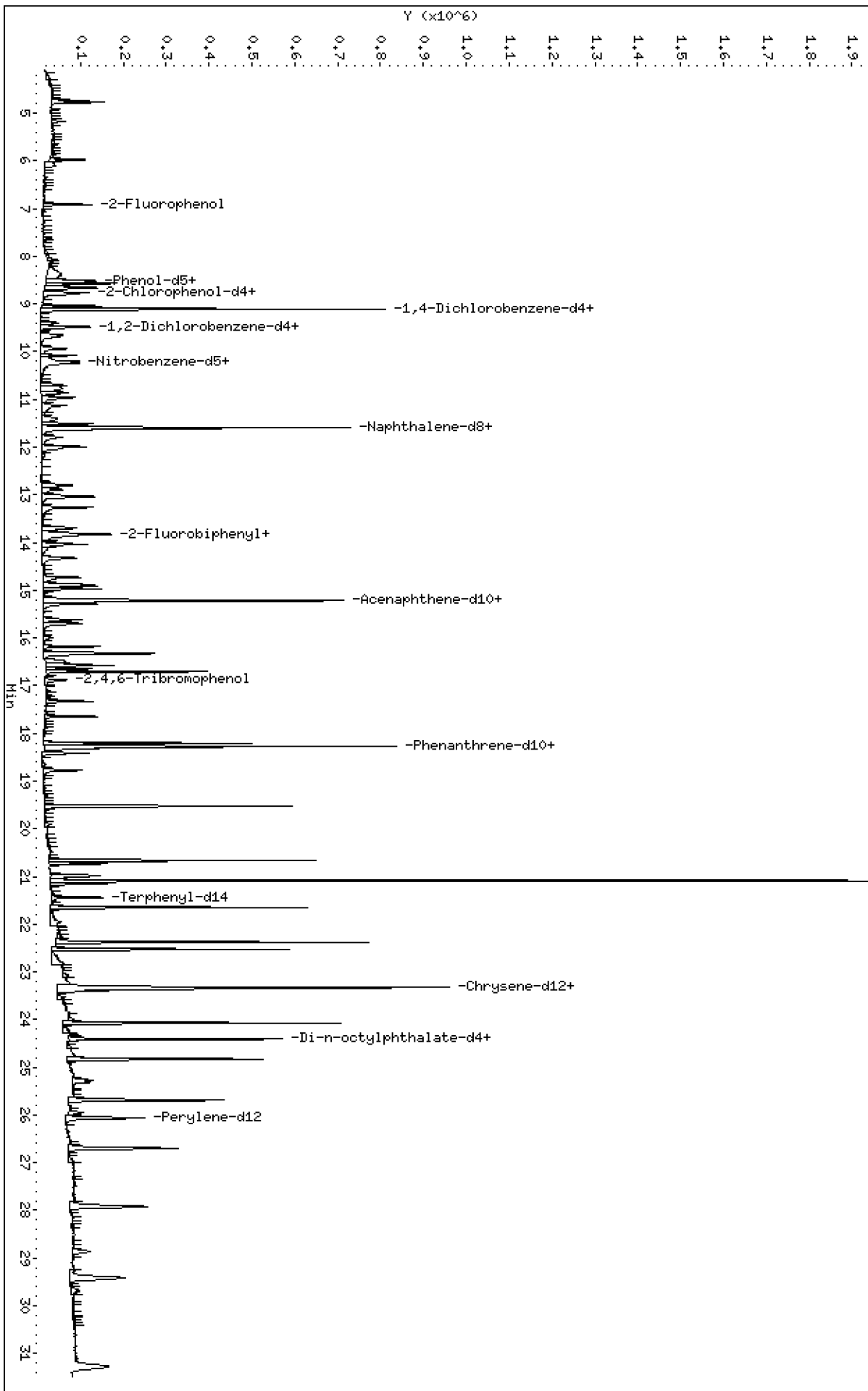
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

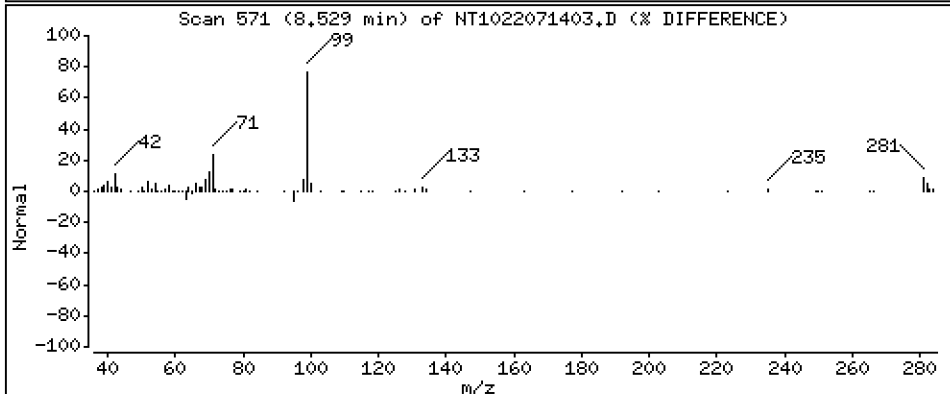
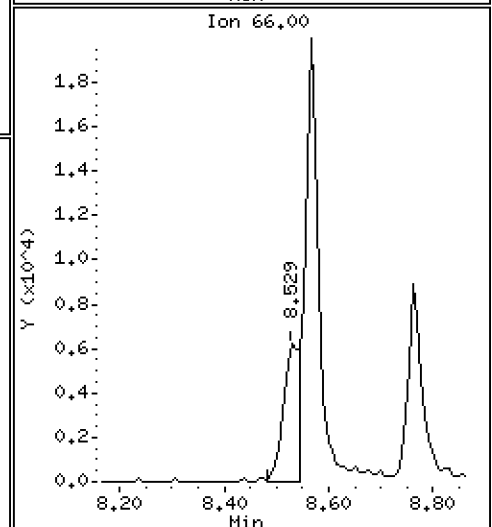
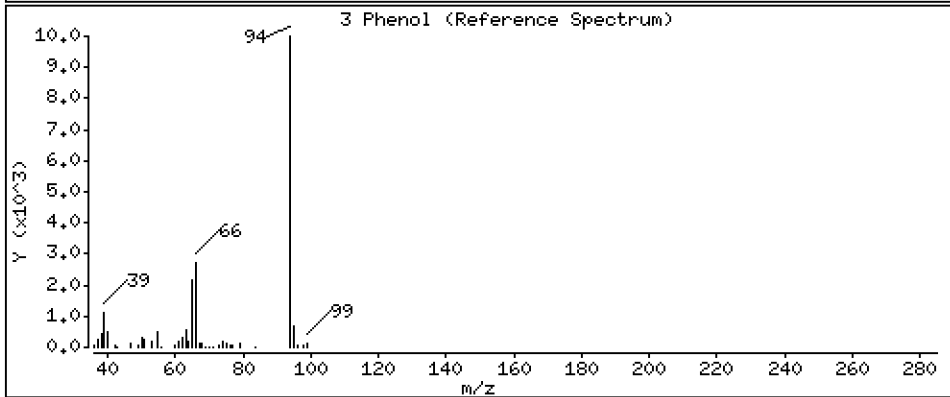
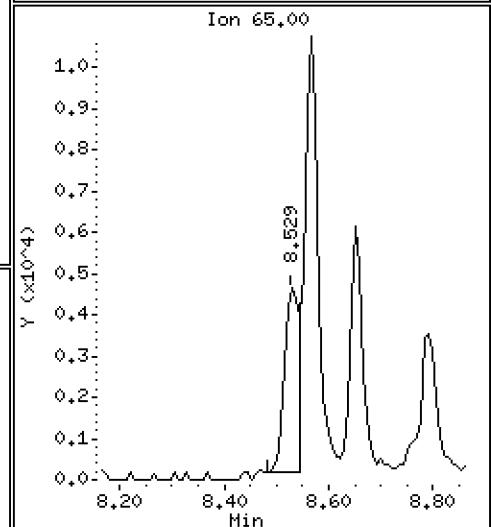
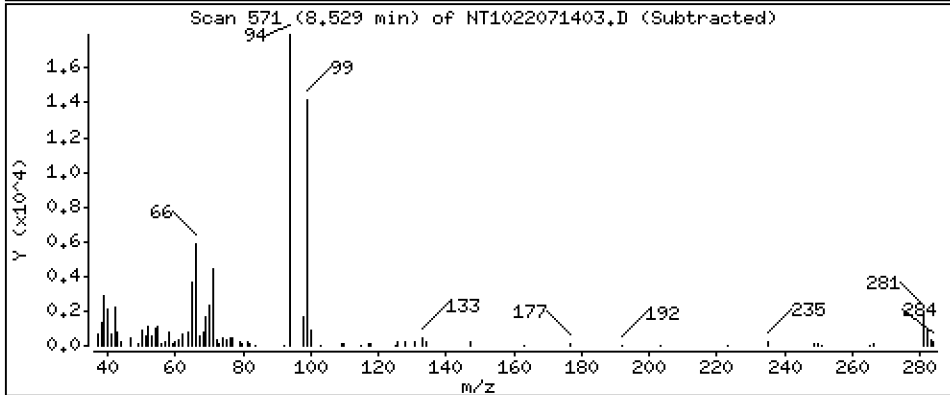
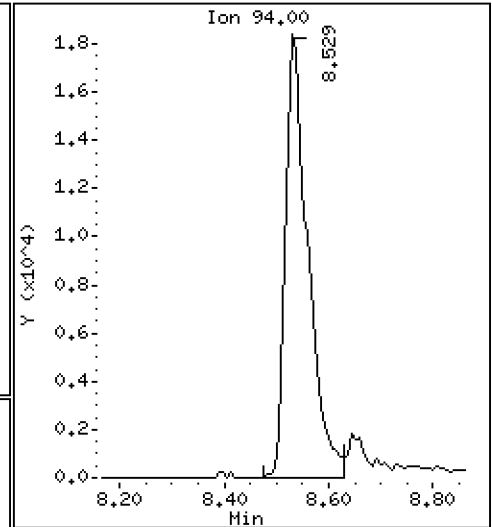
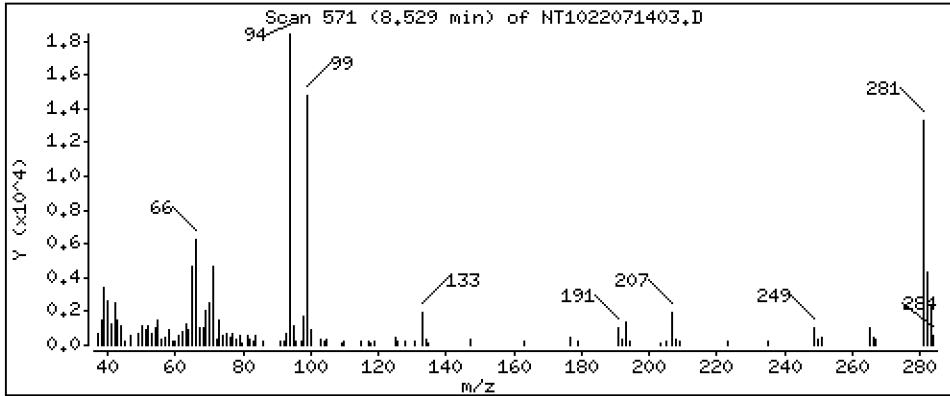
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,5077 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

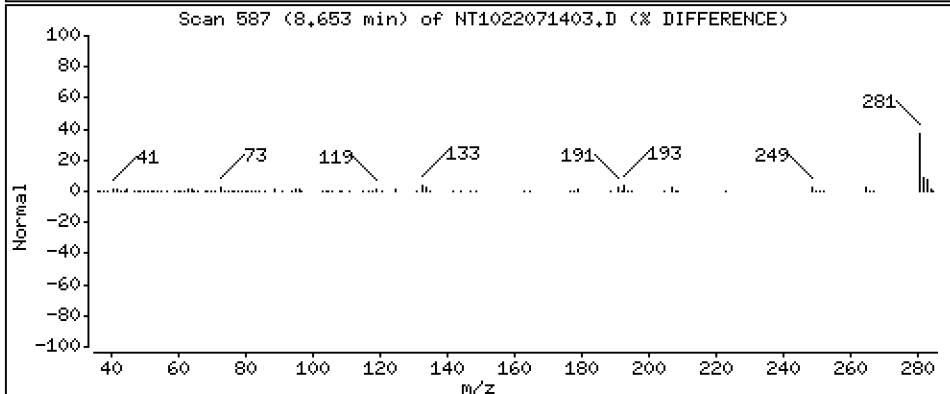
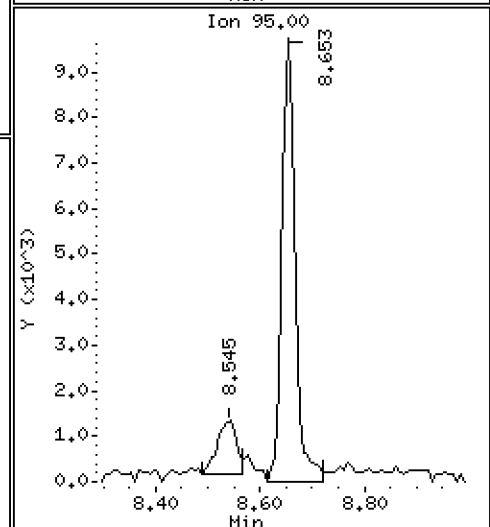
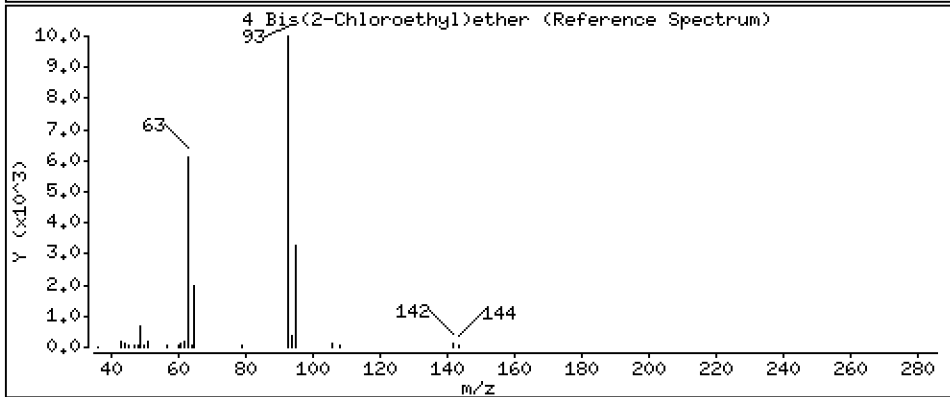
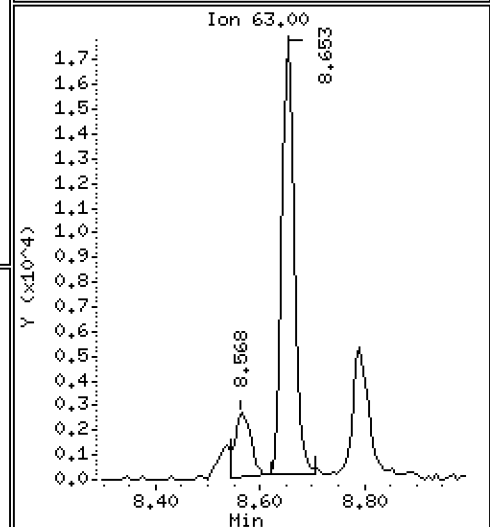
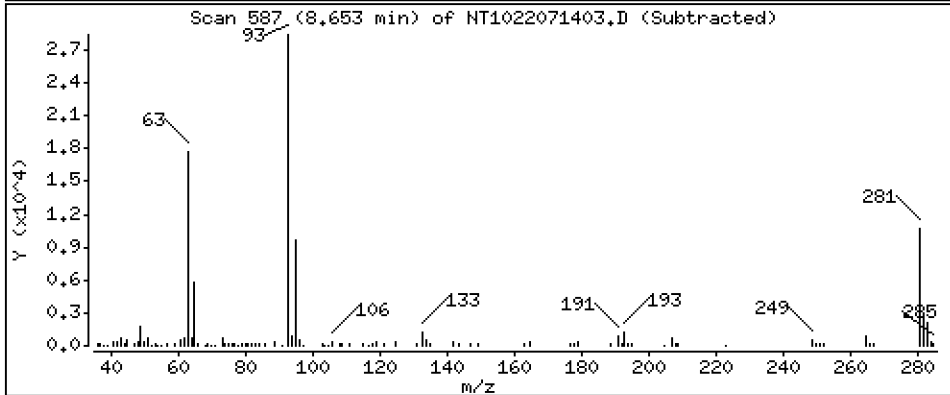
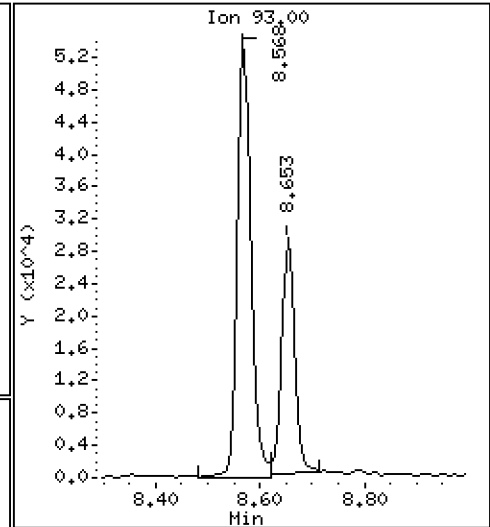
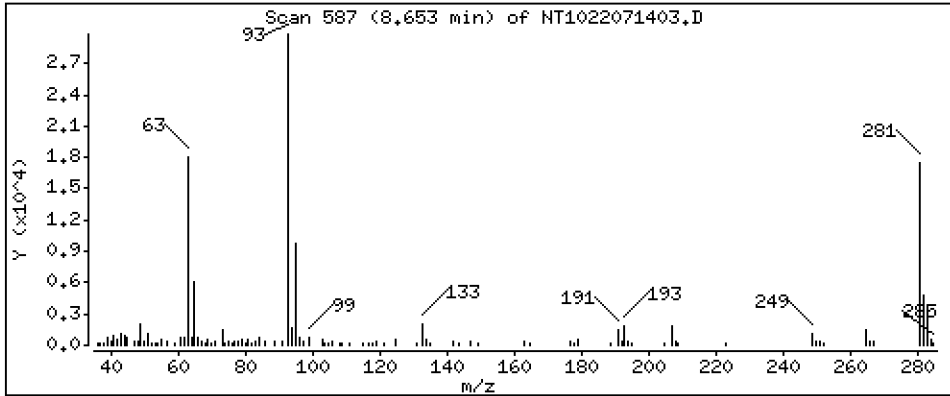
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,6009 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

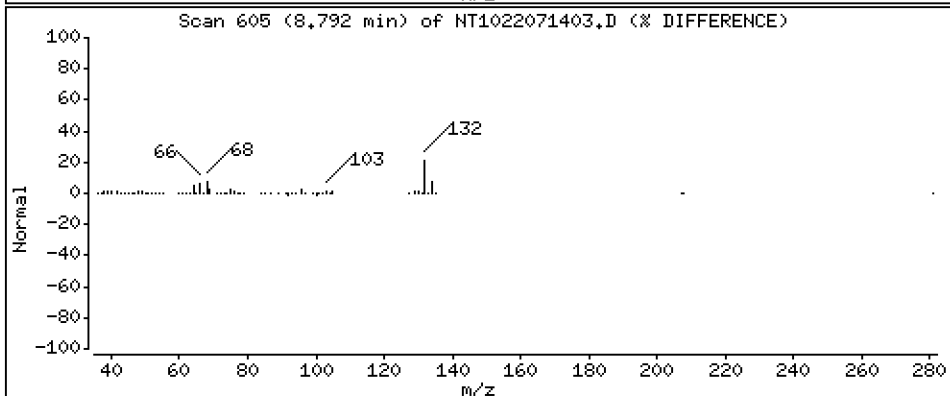
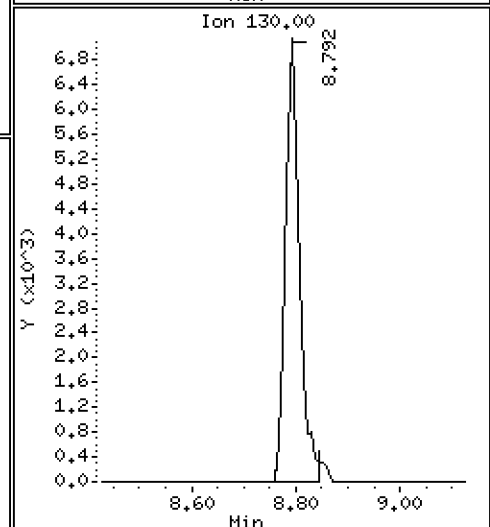
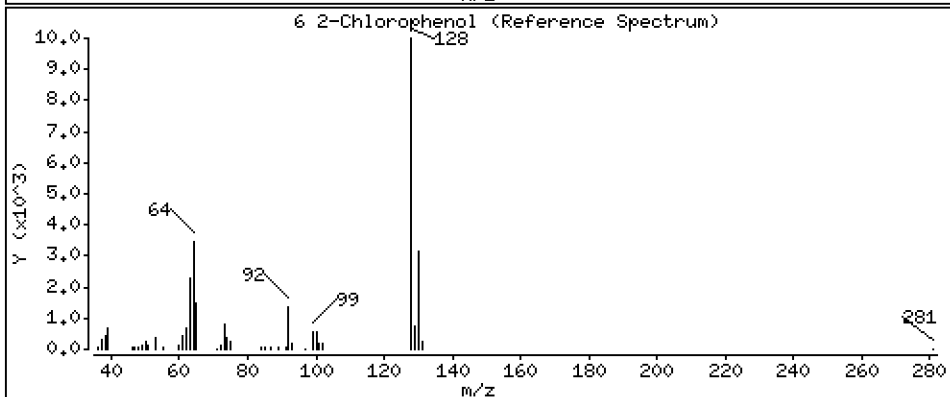
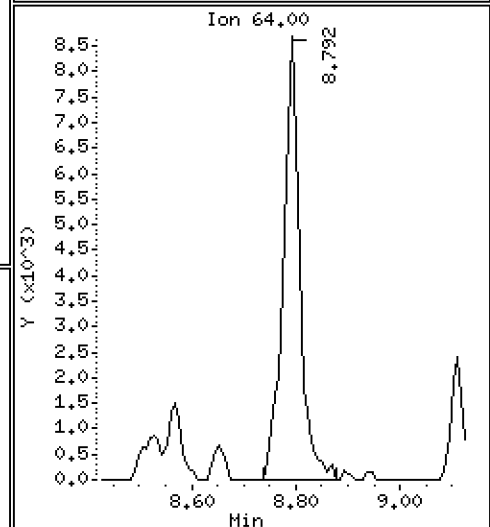
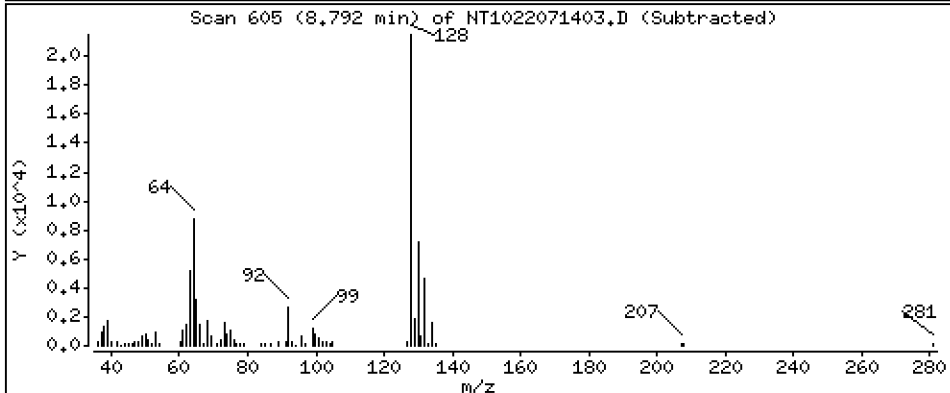
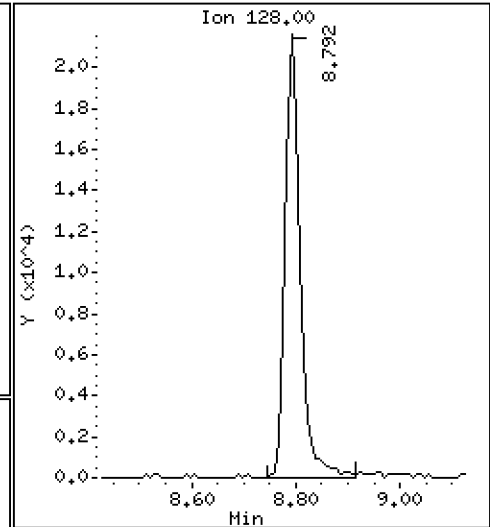
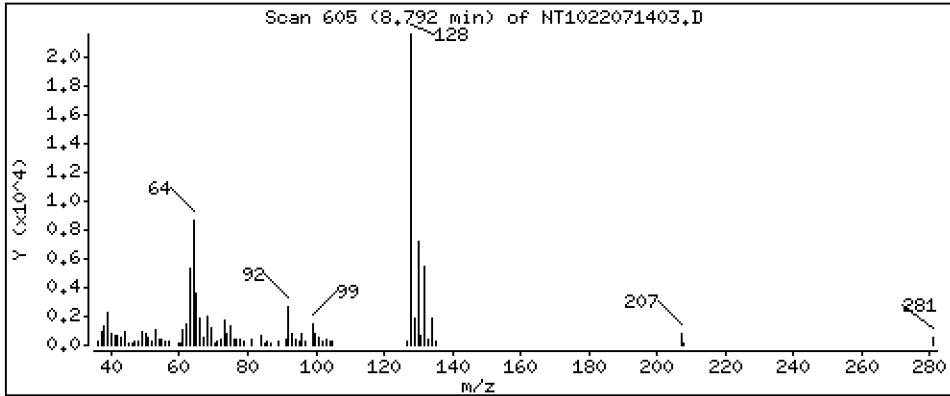
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,5269 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

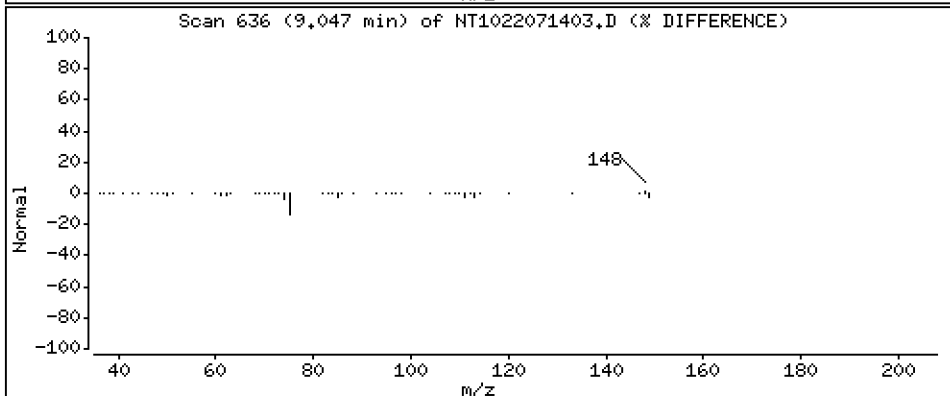
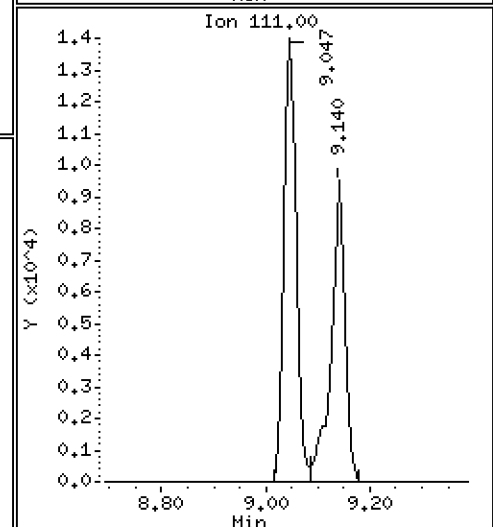
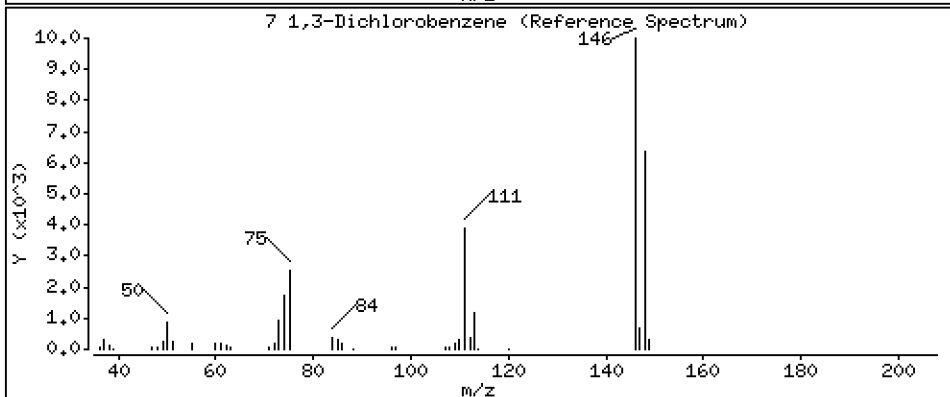
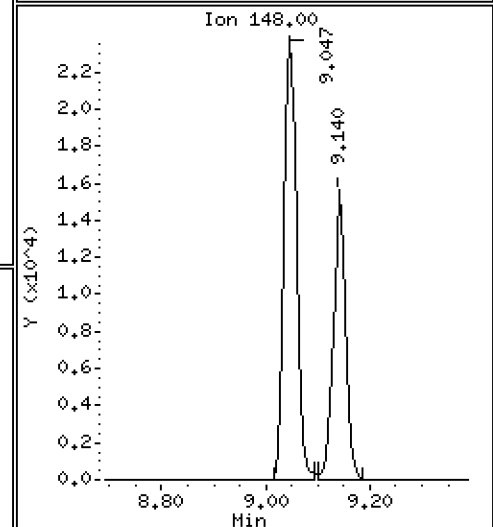
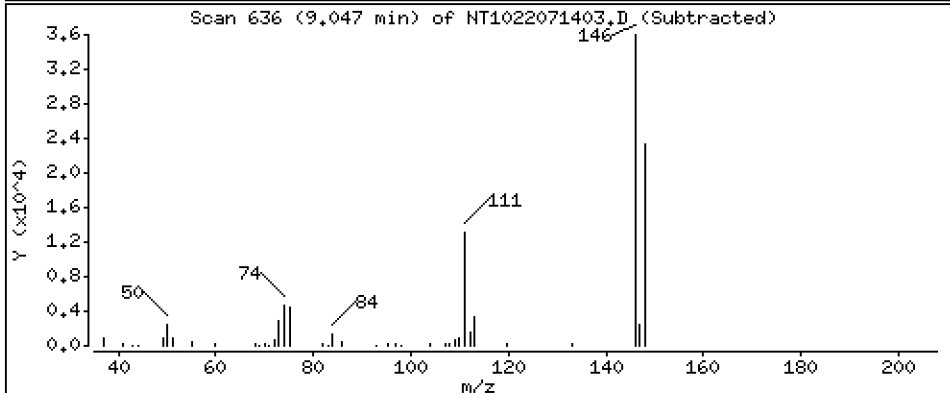
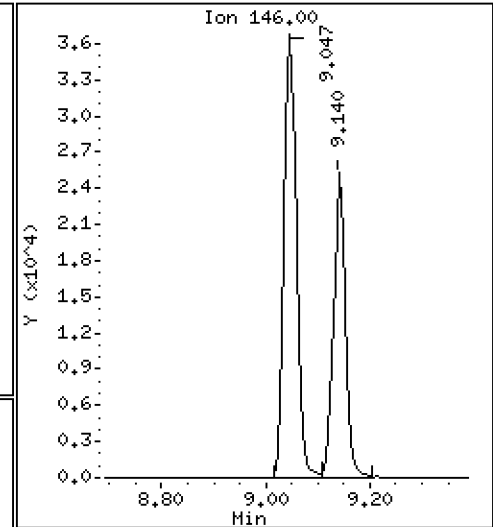
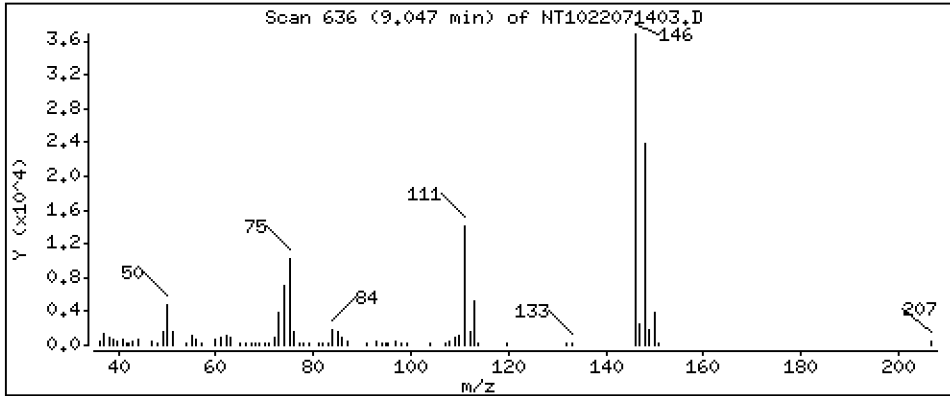
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,6128 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

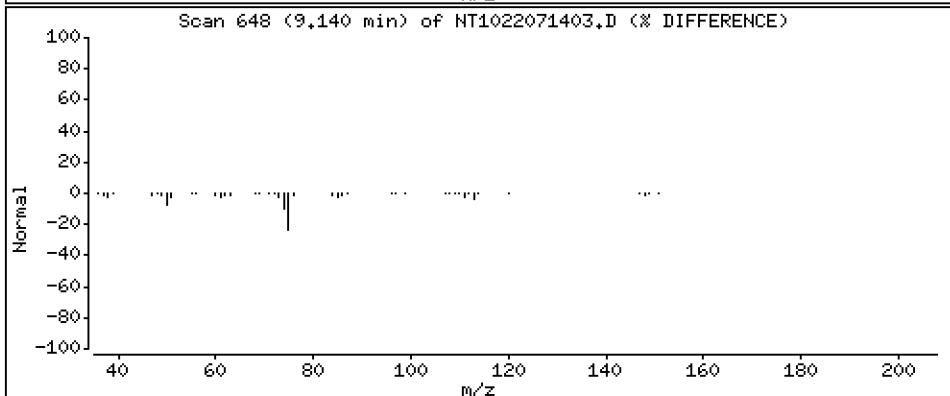
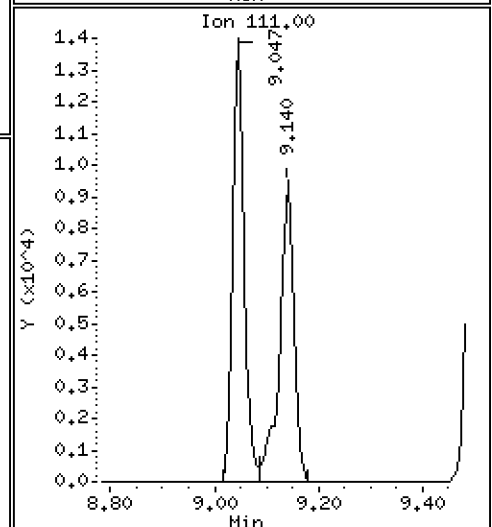
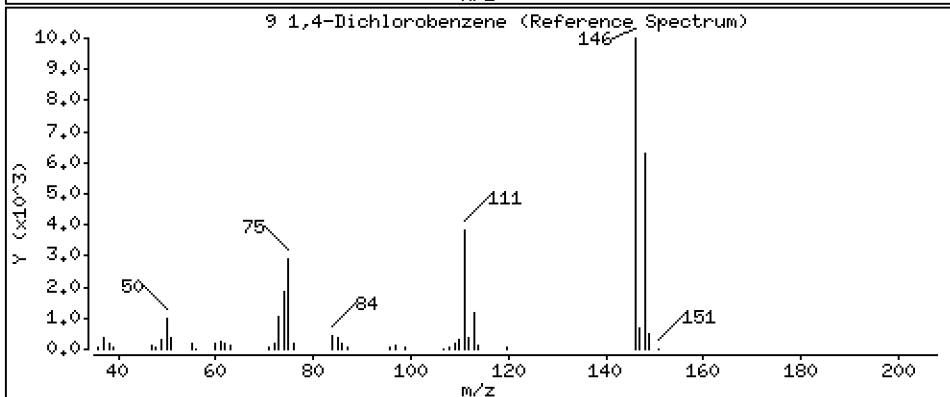
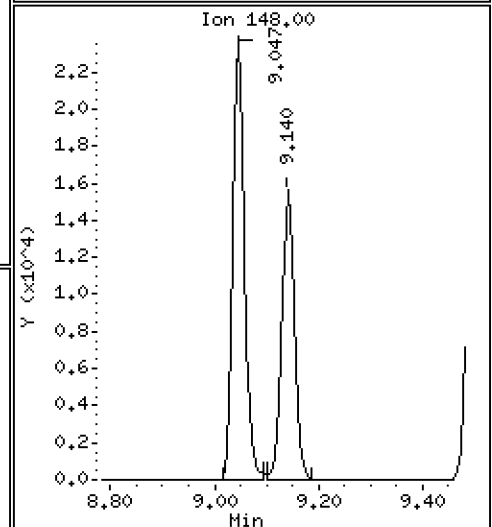
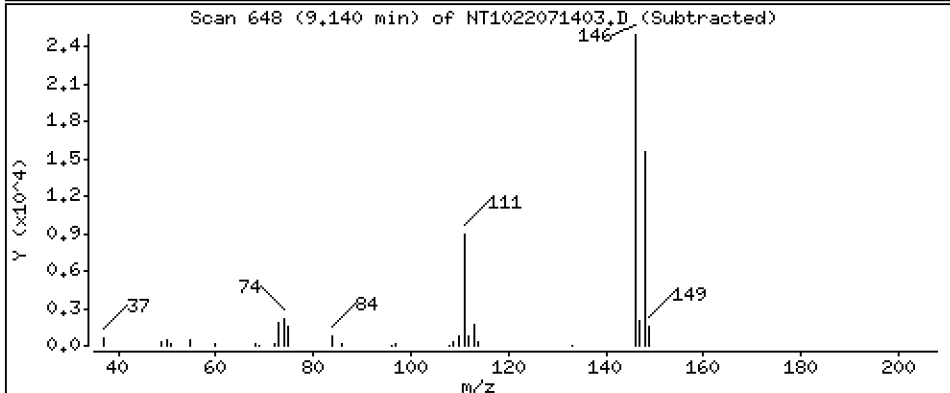
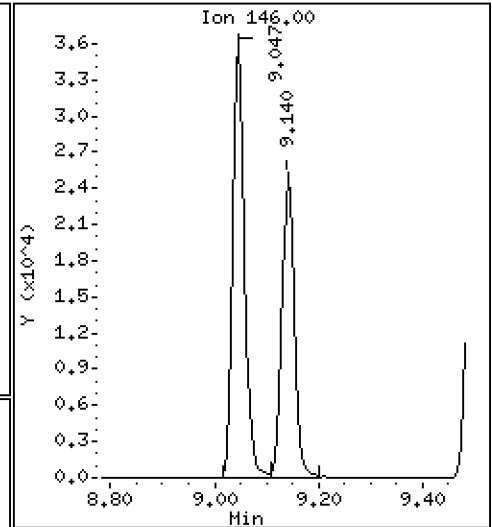
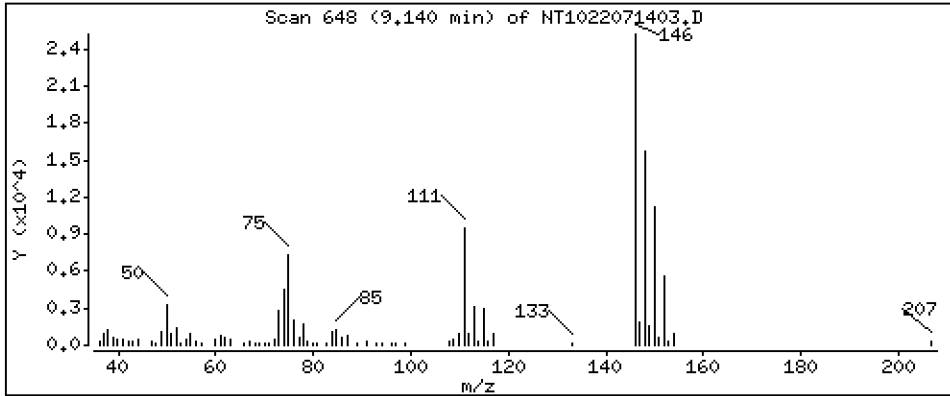
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,5269 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

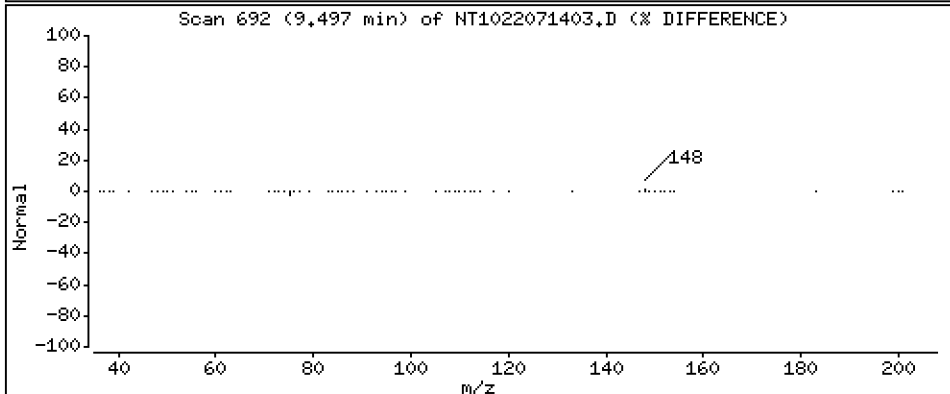
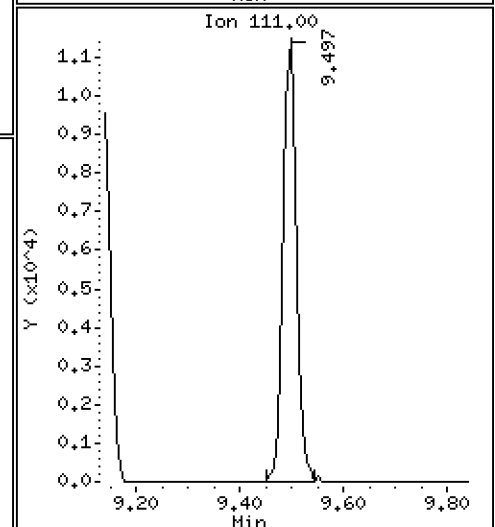
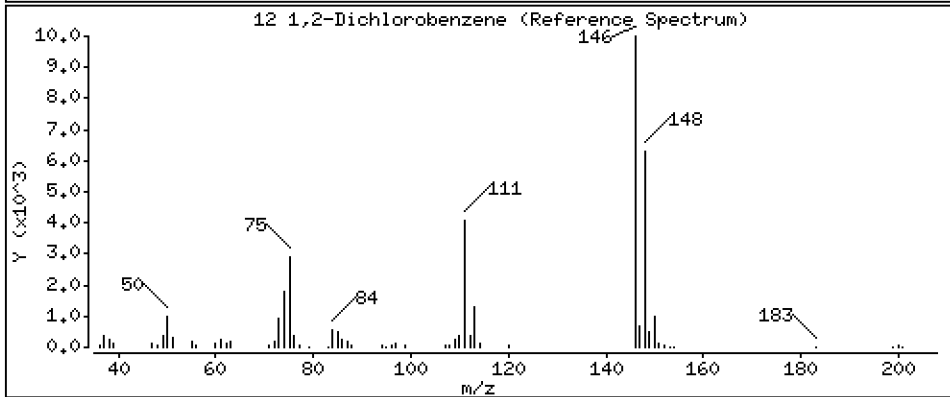
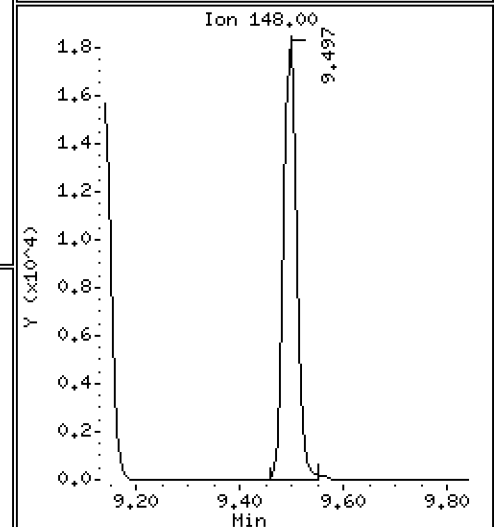
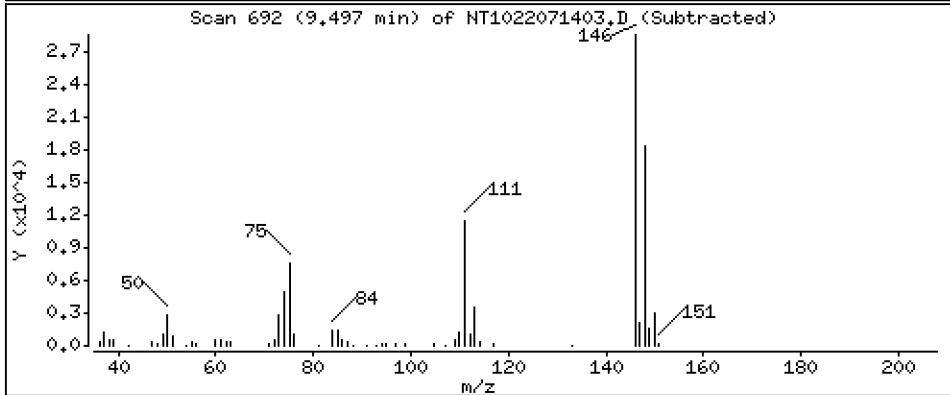
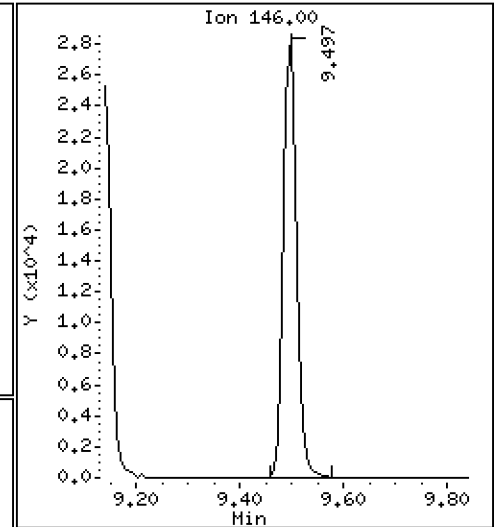
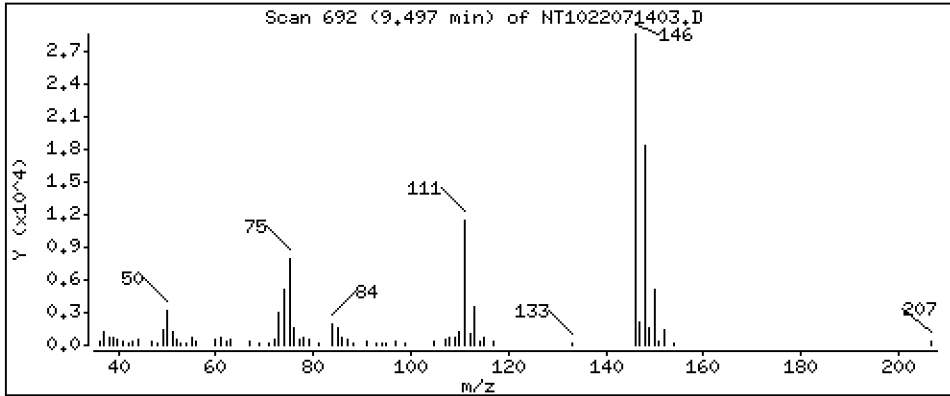
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.6021 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

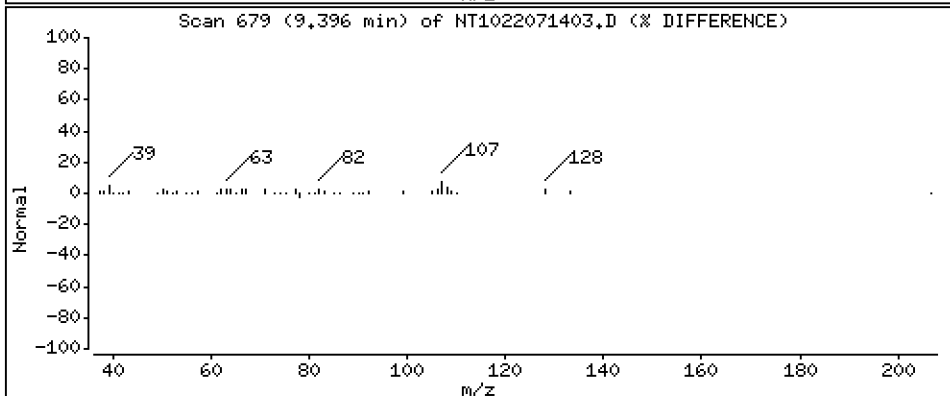
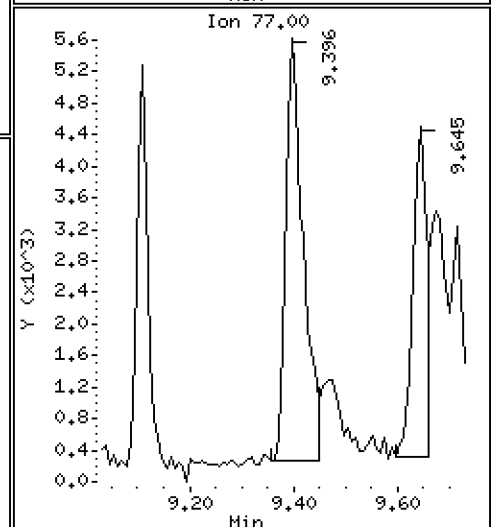
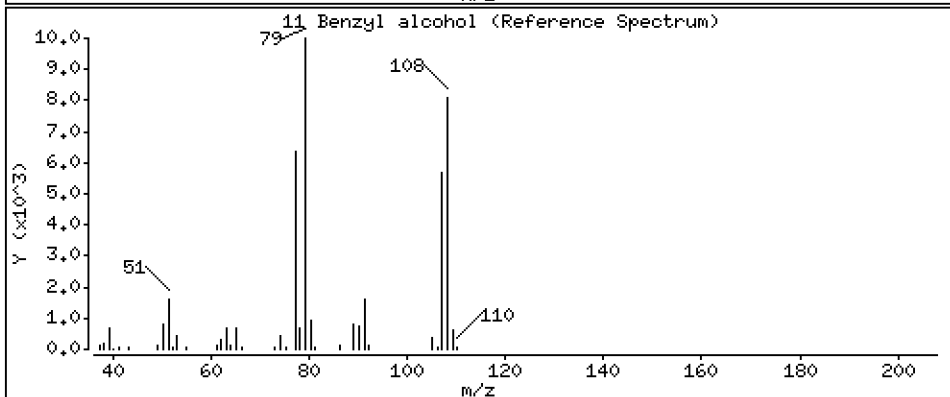
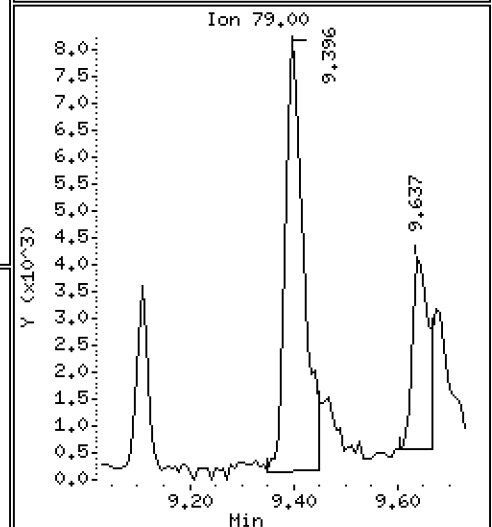
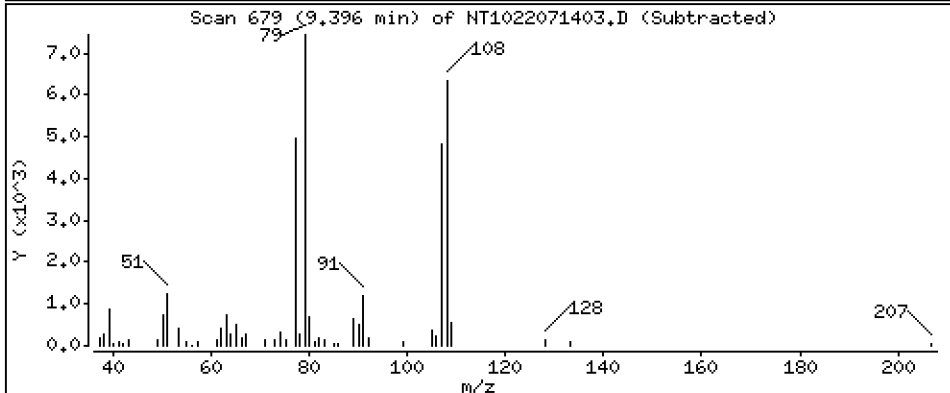
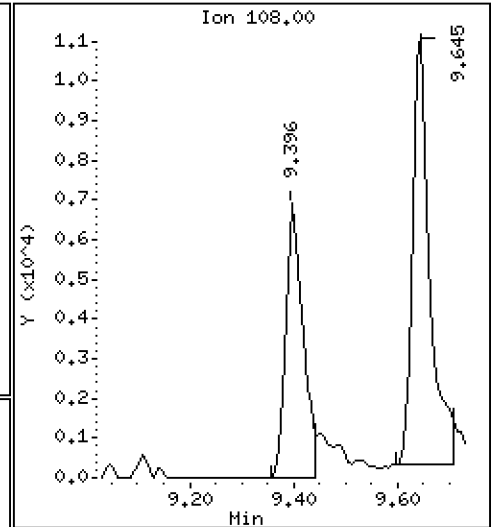
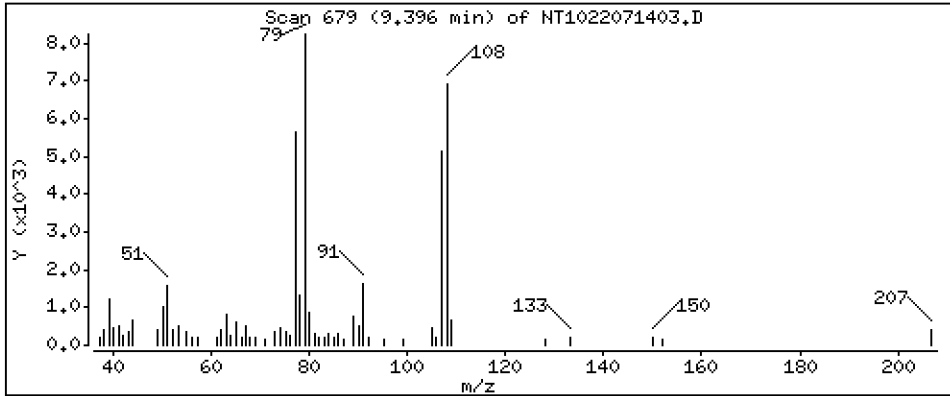
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.3678 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

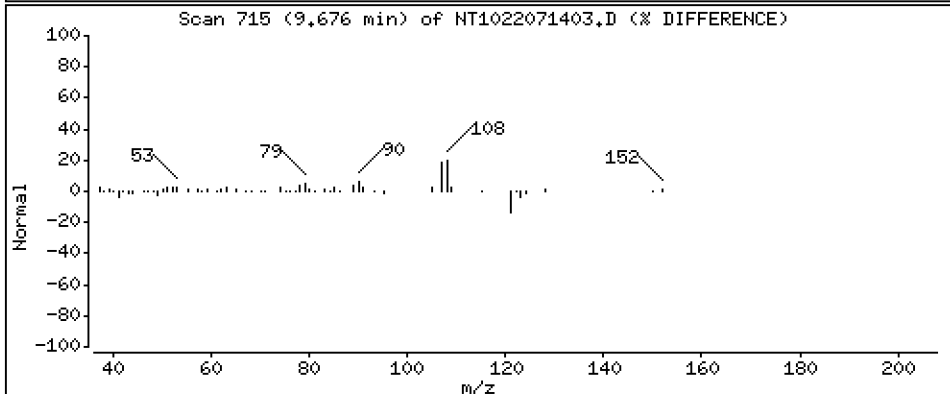
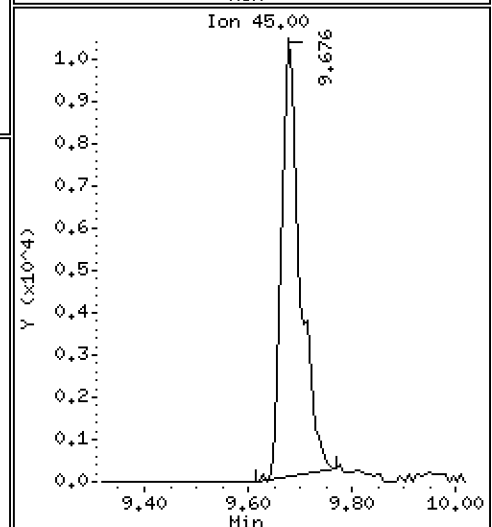
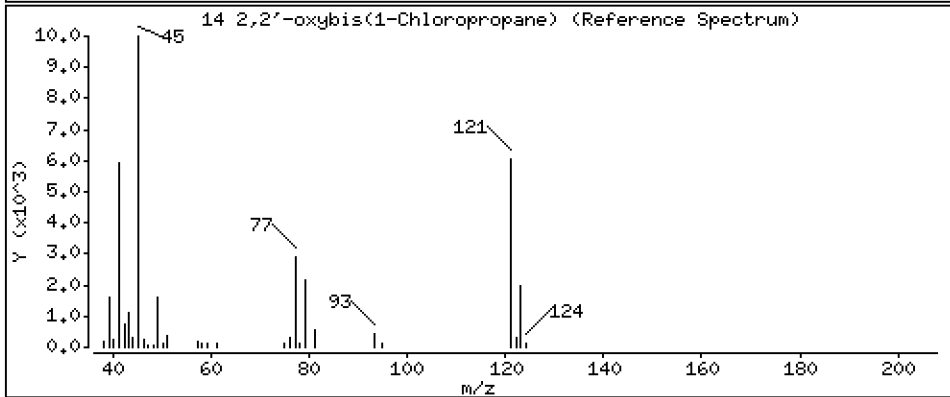
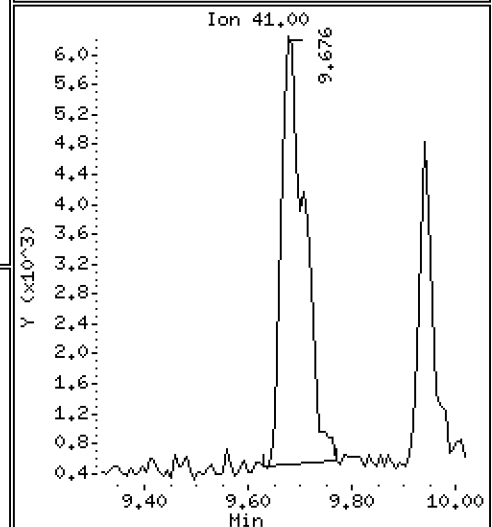
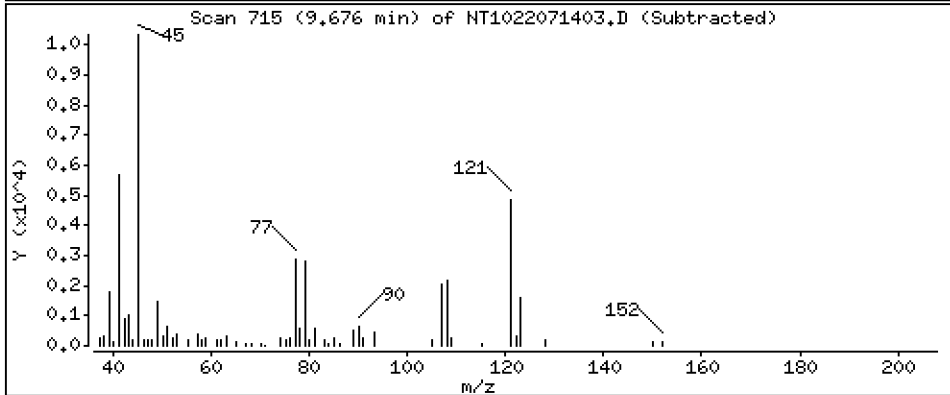
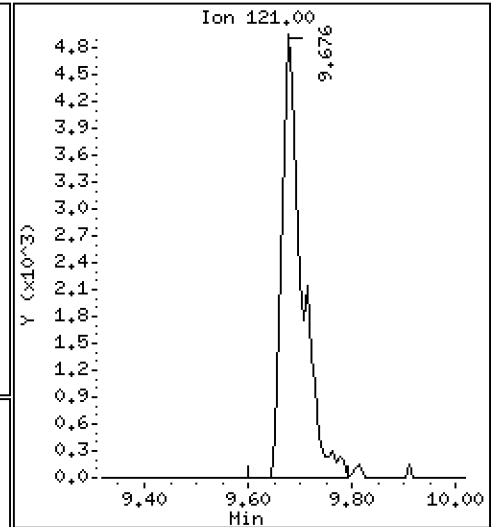
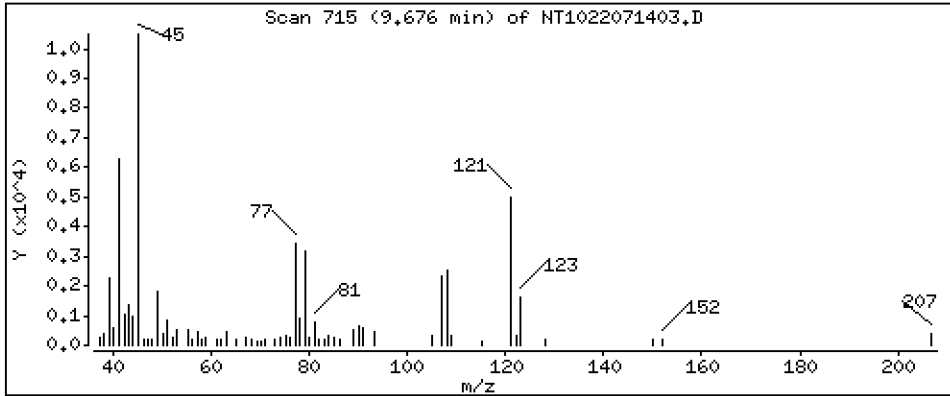
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,7190 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

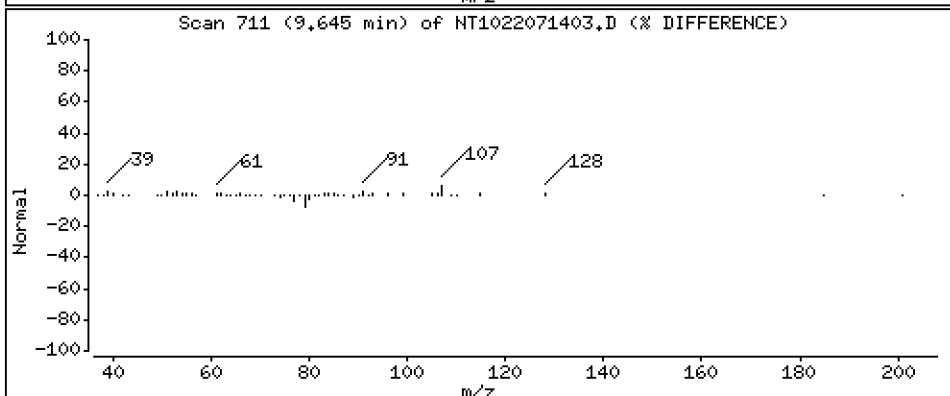
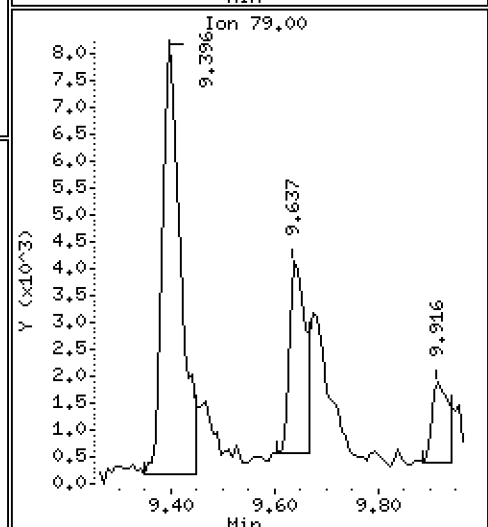
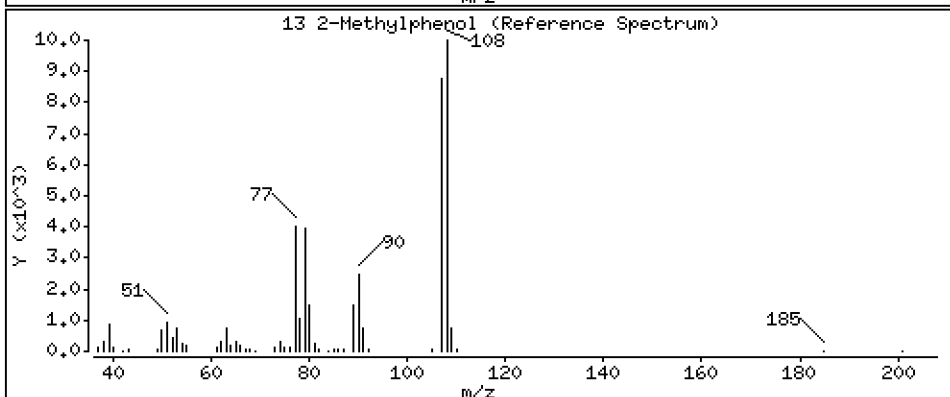
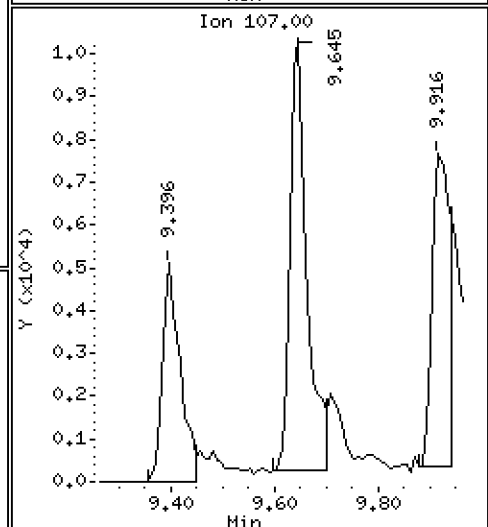
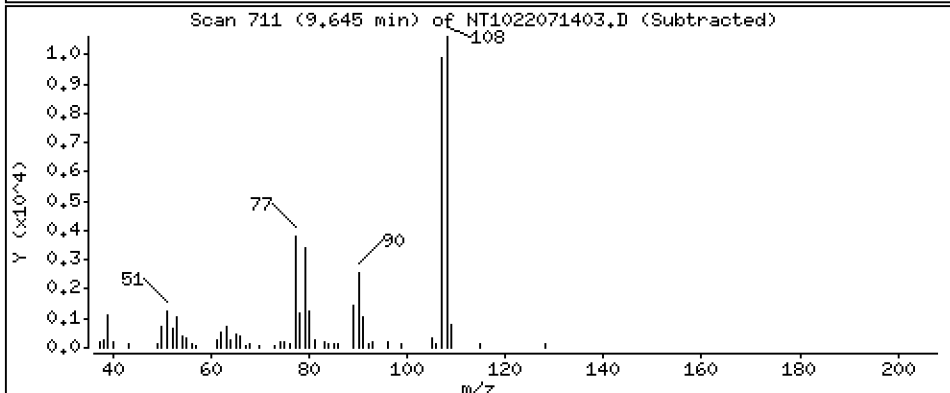
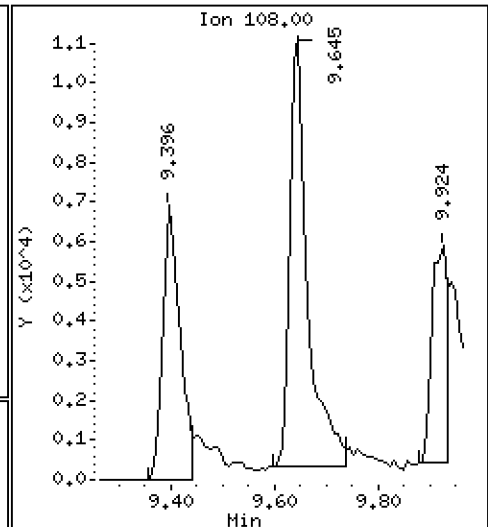
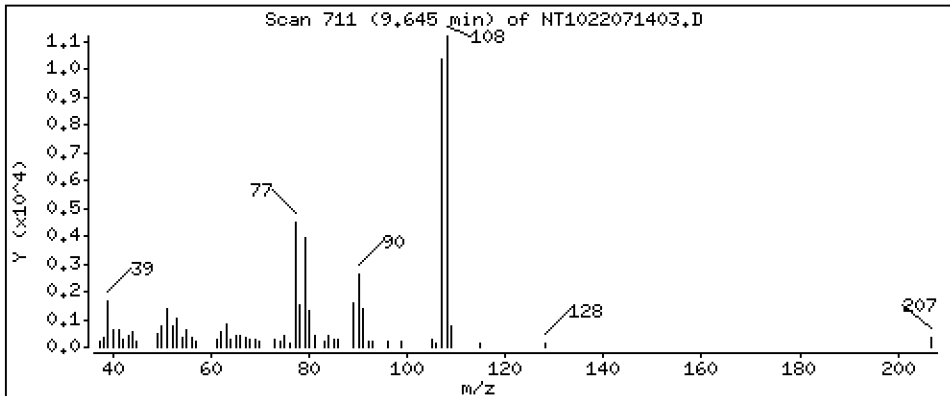
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.3960 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

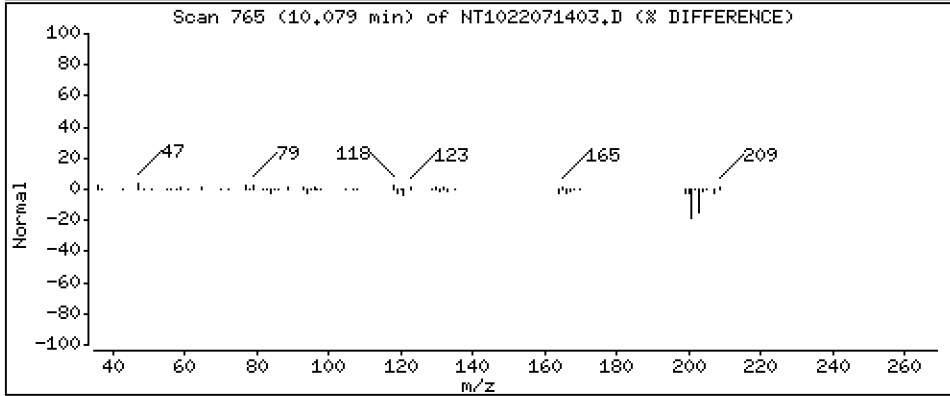
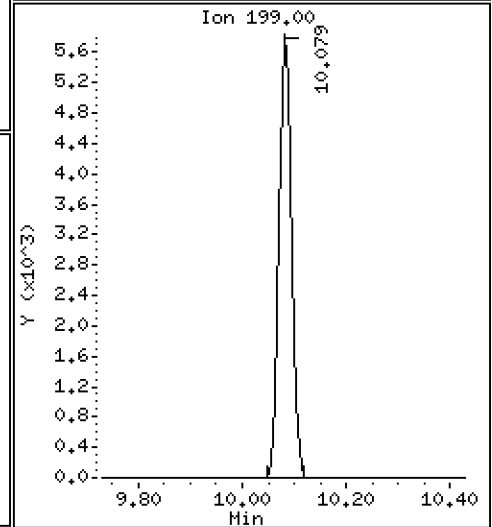
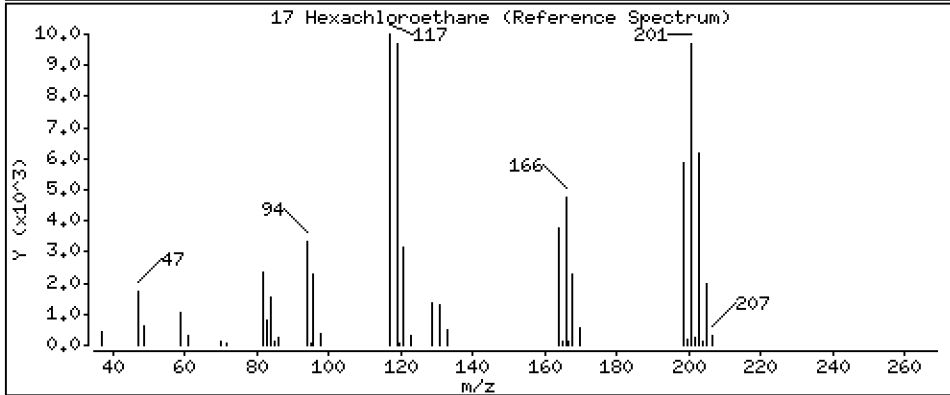
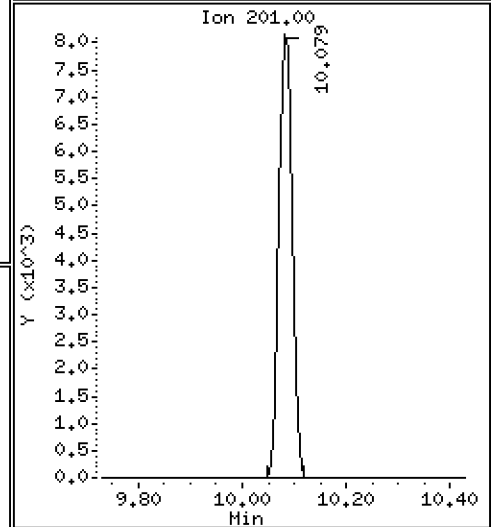
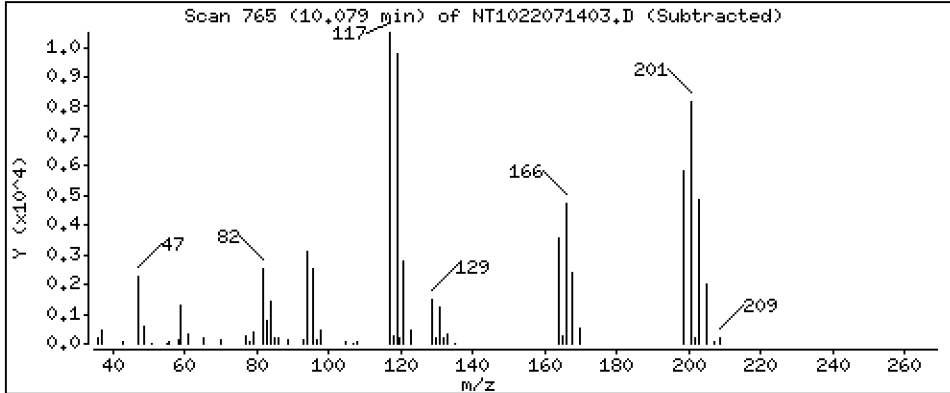
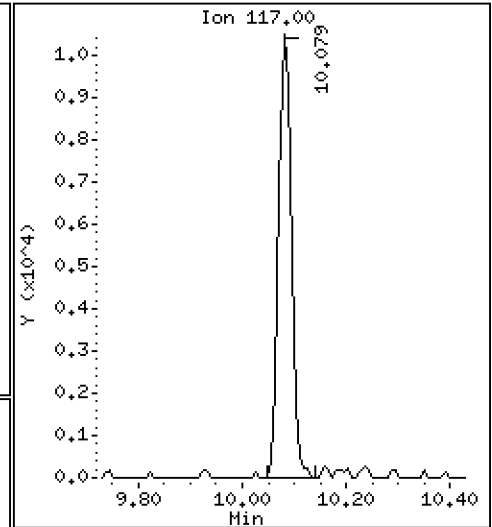
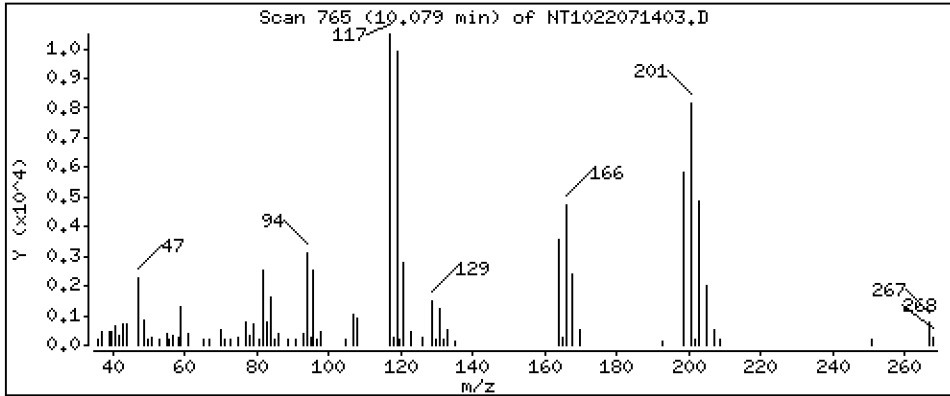
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,5211 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

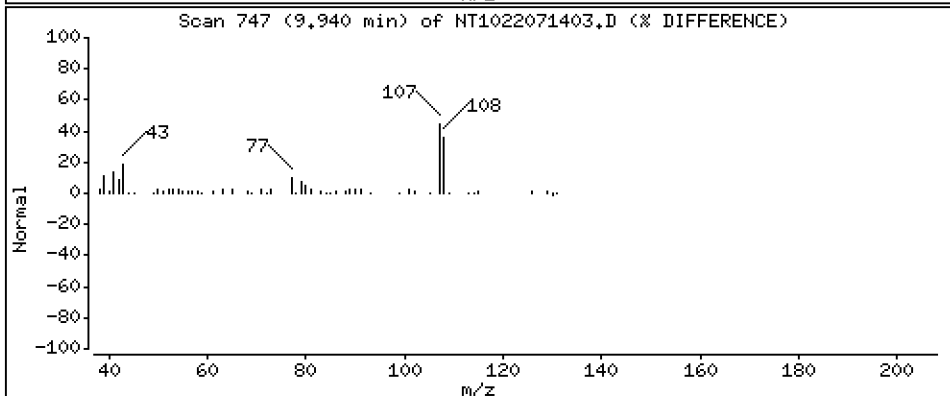
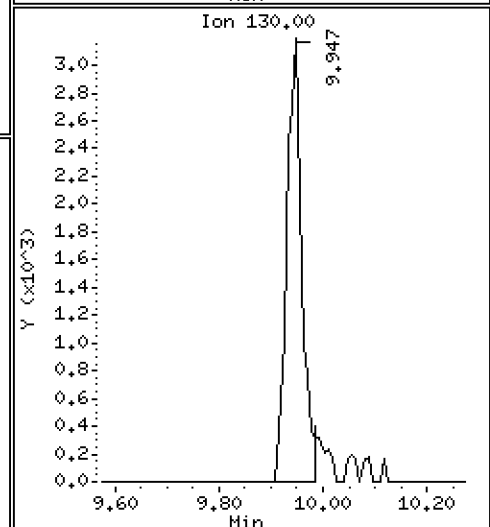
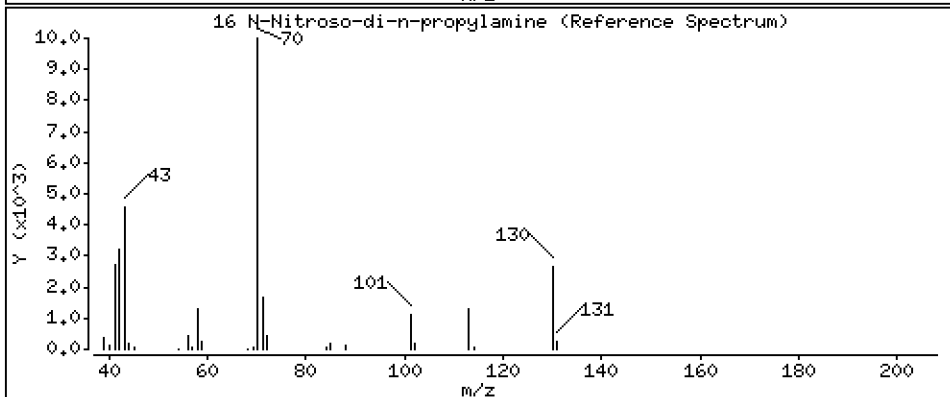
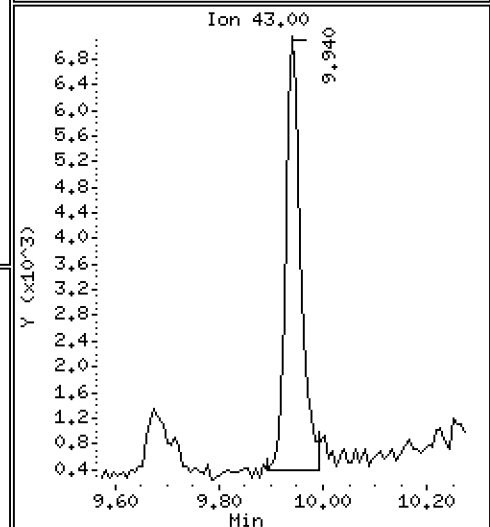
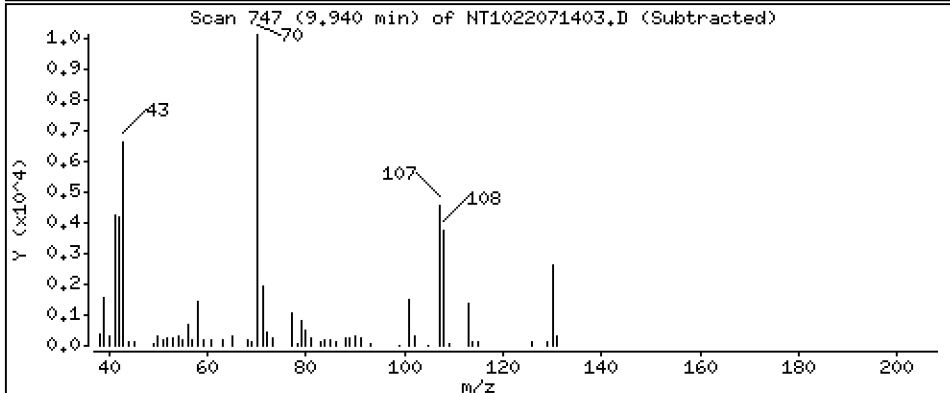
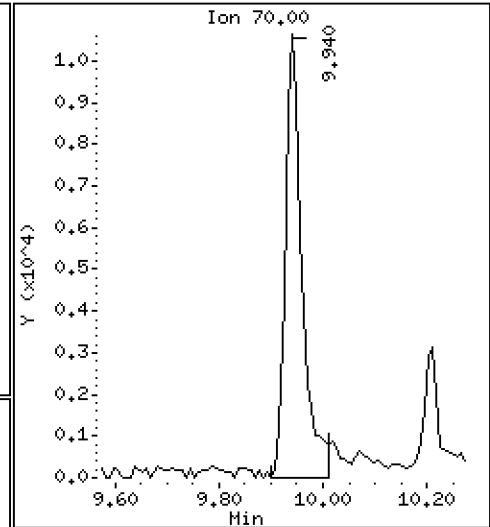
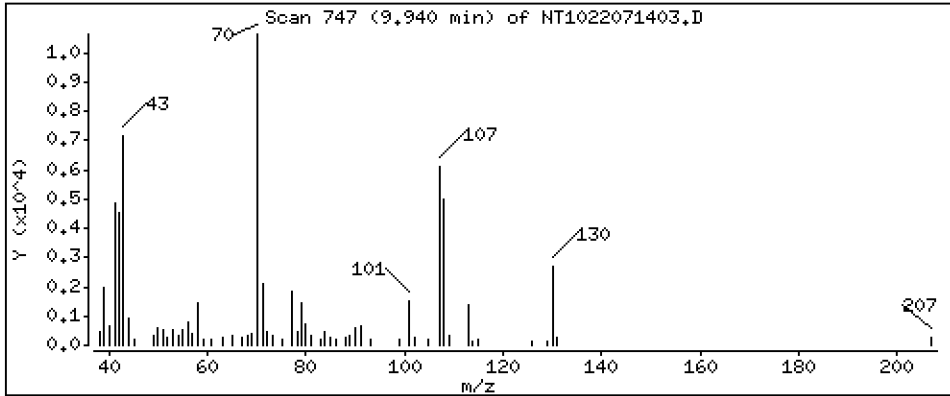
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,5134 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

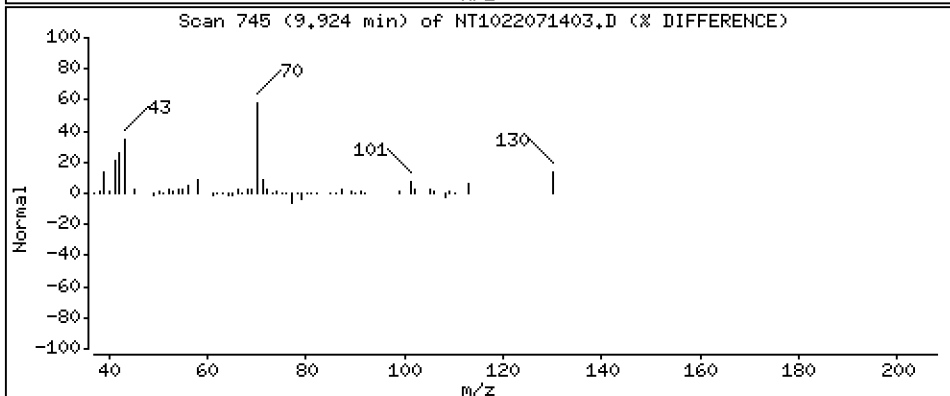
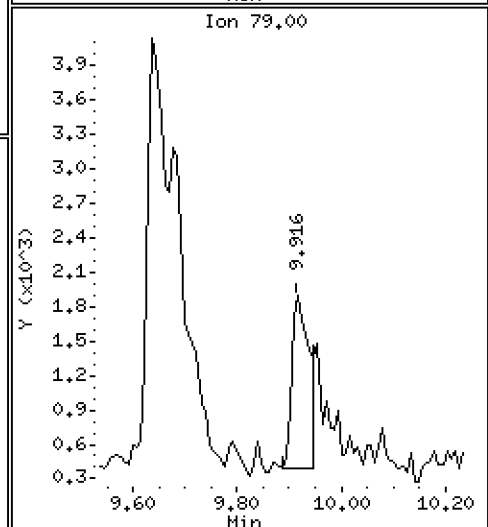
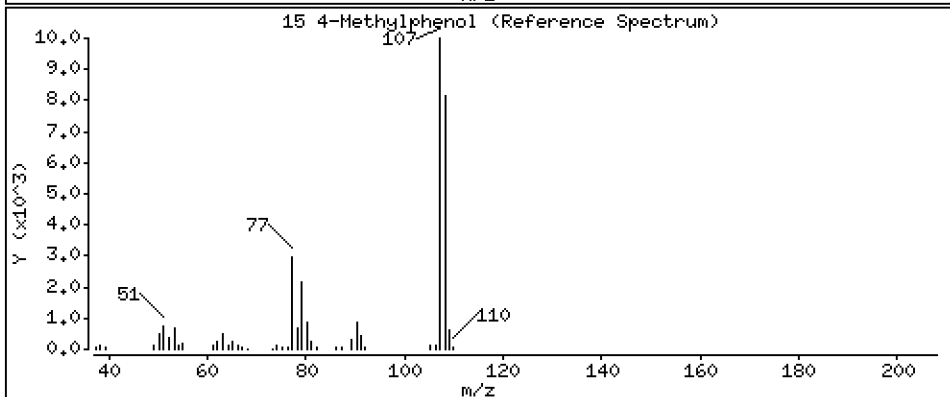
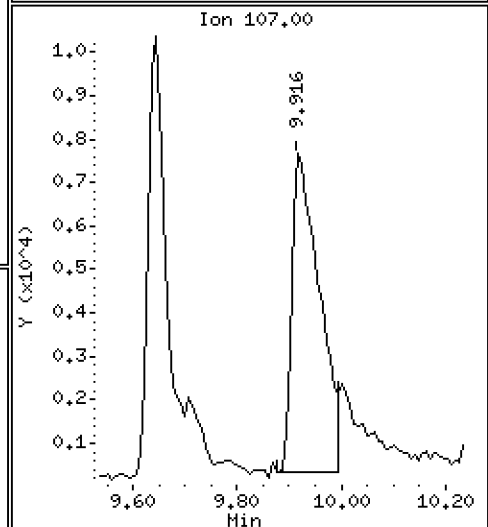
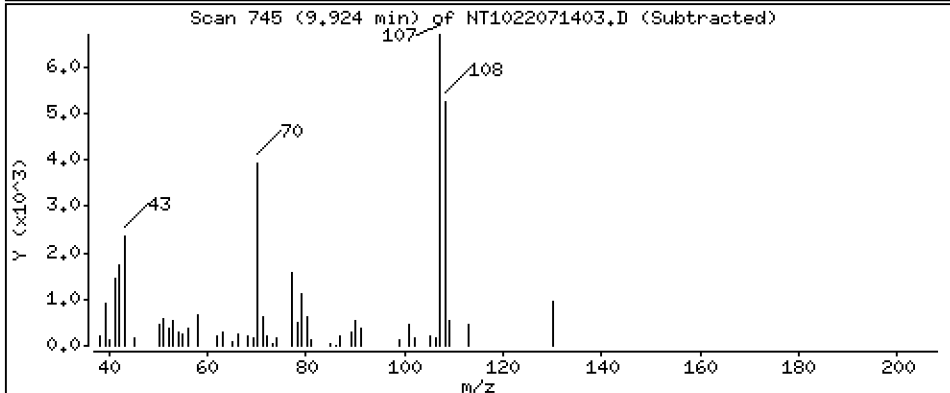
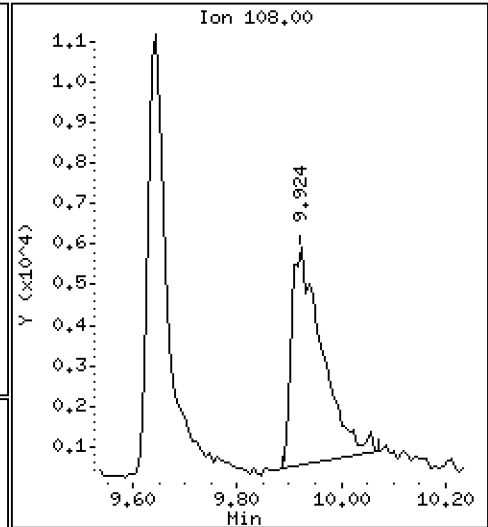
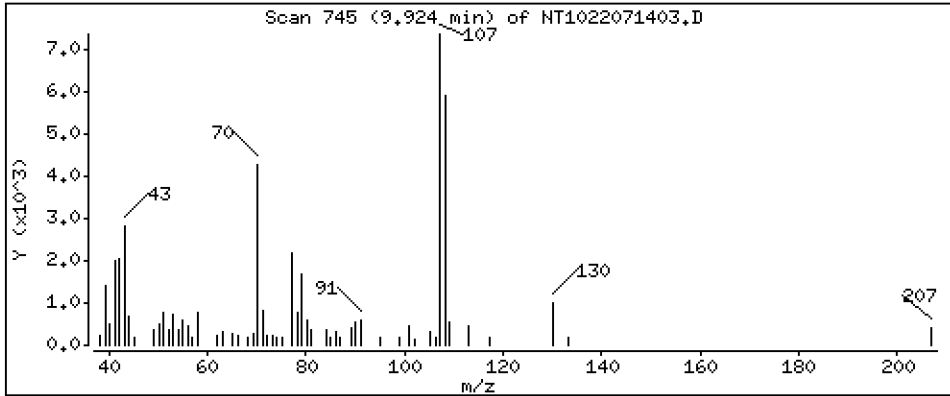
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.3110 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

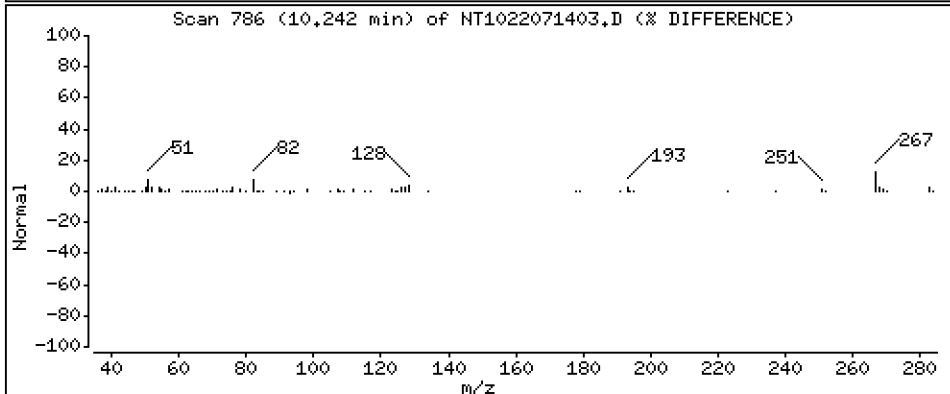
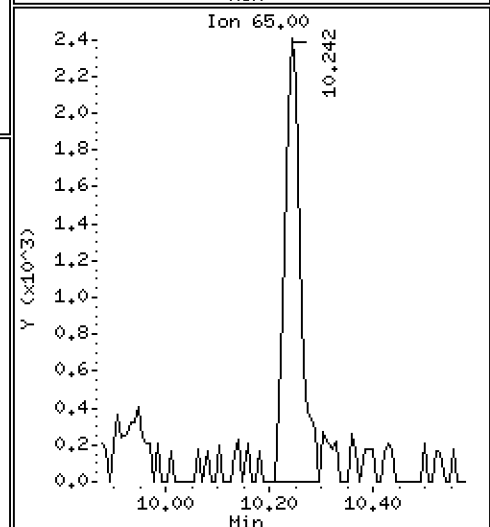
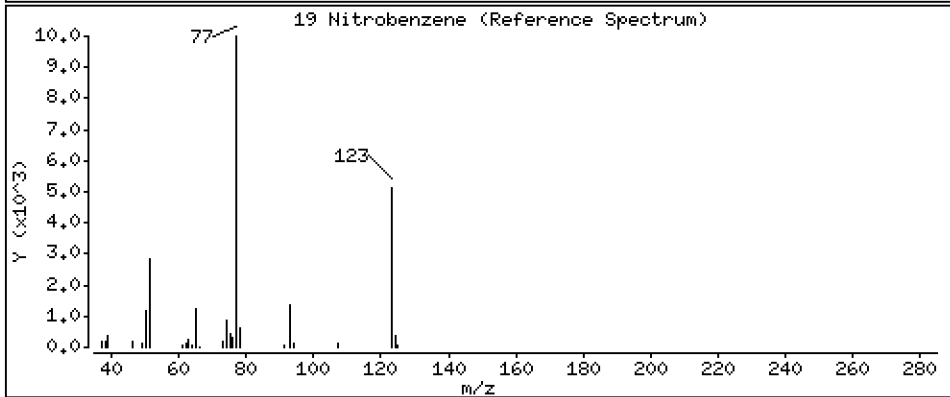
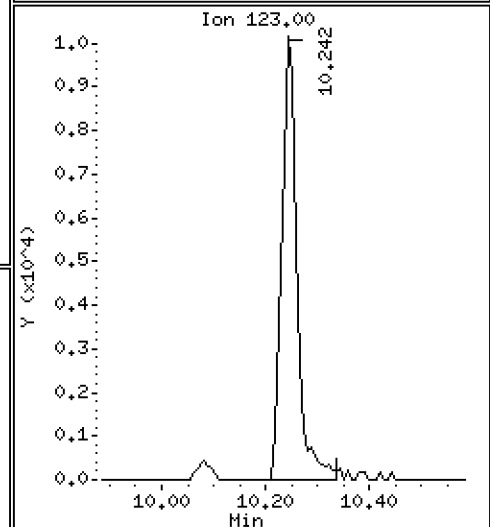
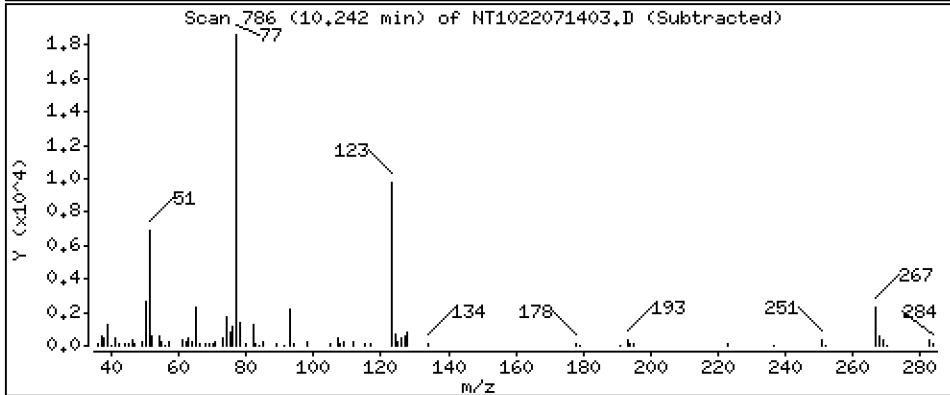
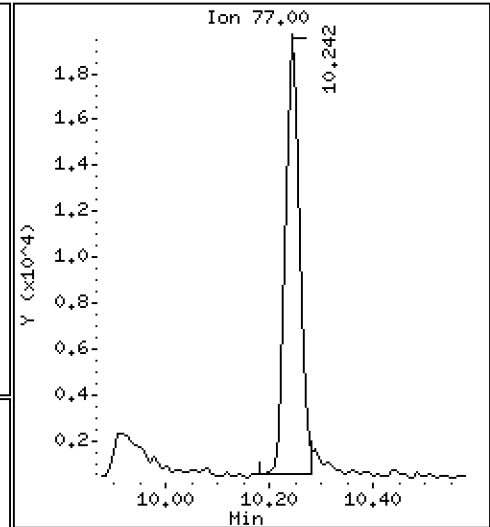
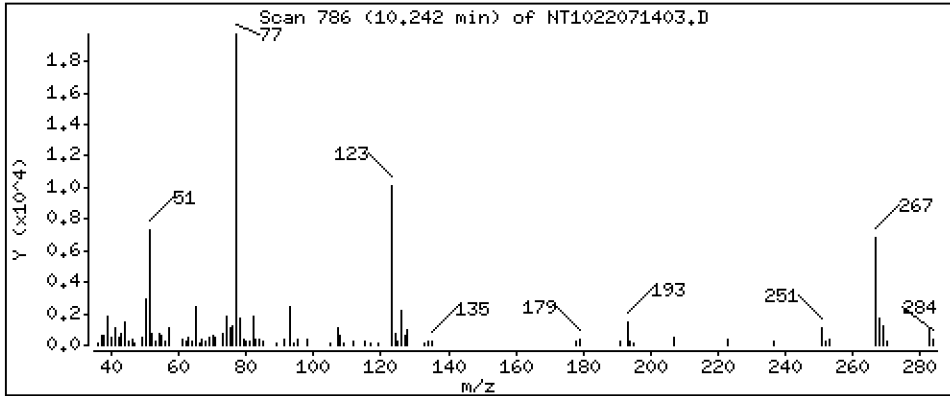
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,4818 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

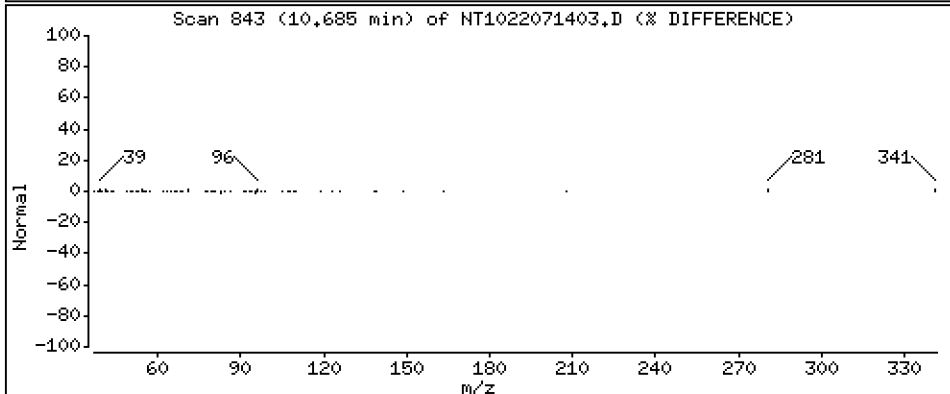
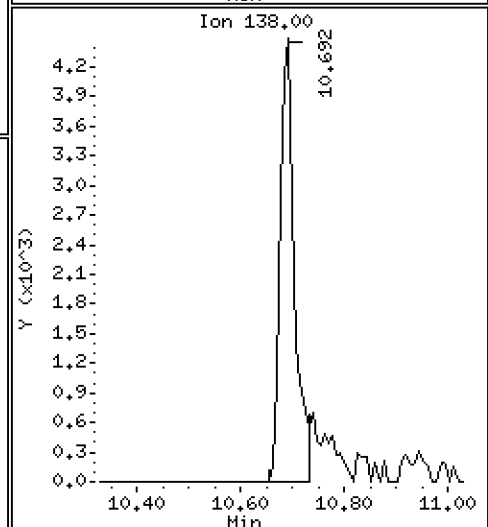
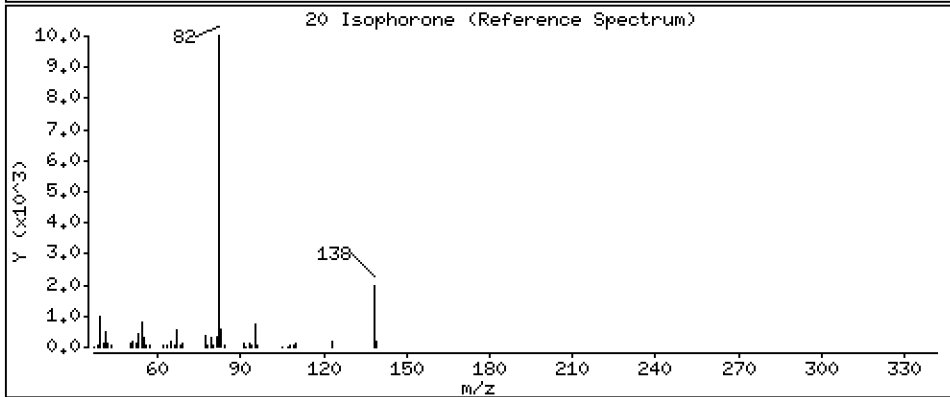
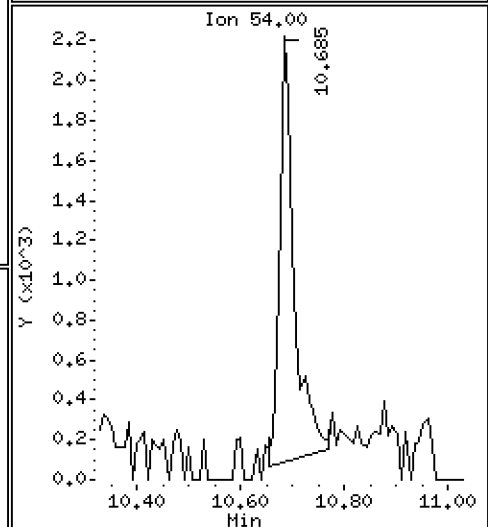
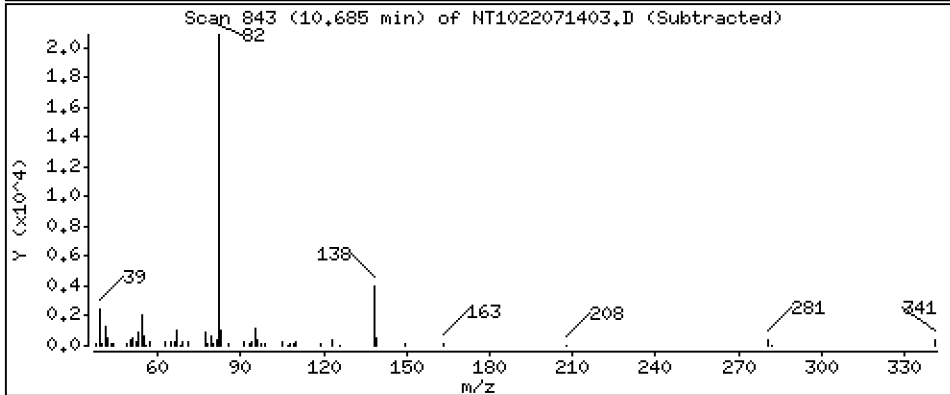
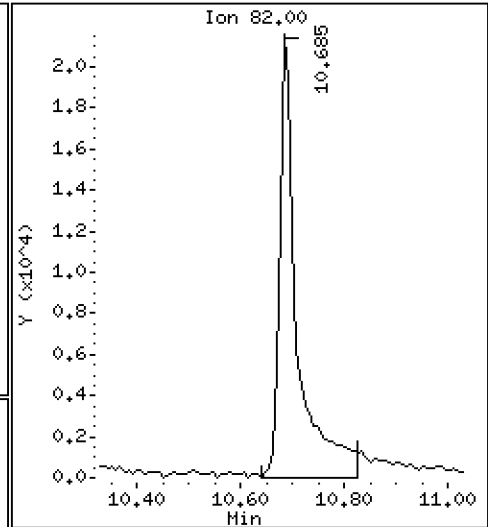
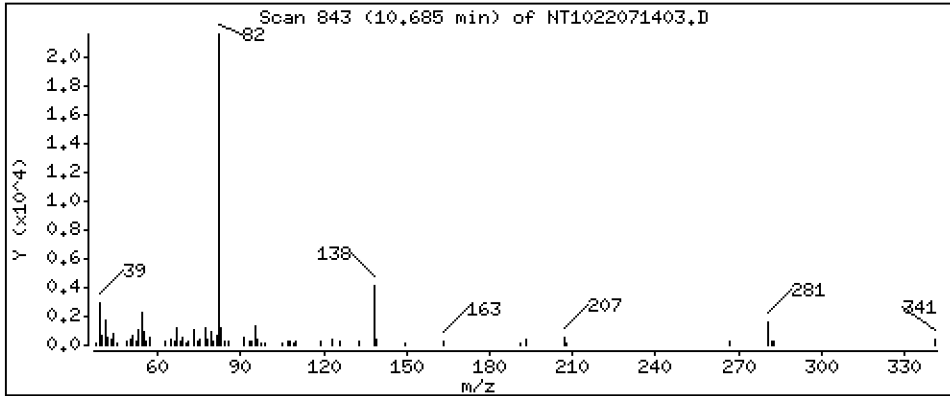
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,5116 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

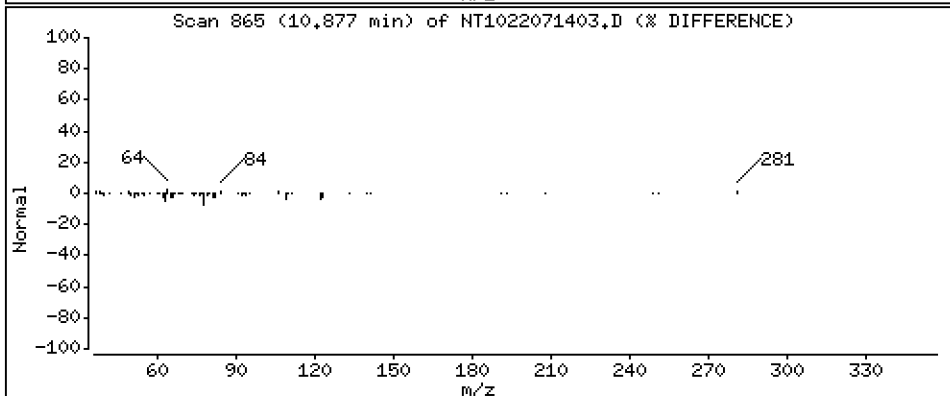
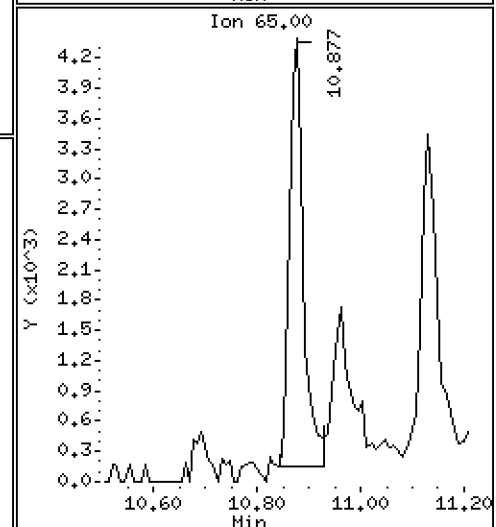
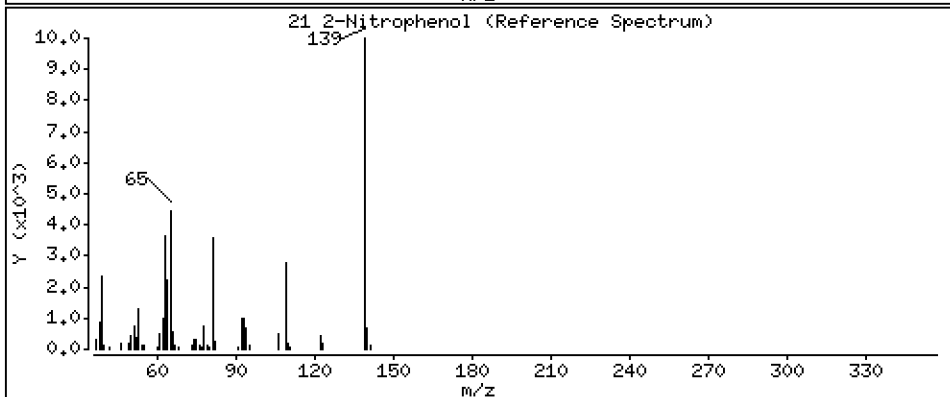
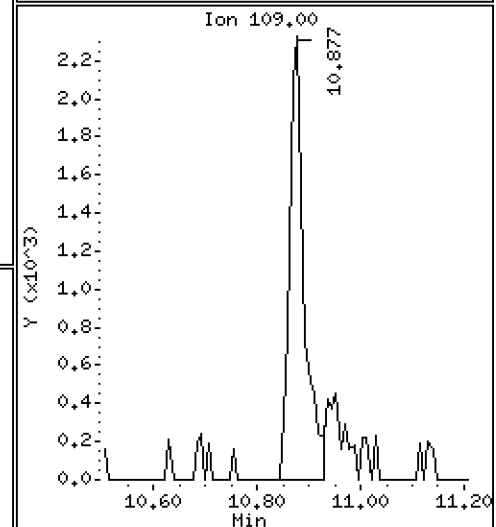
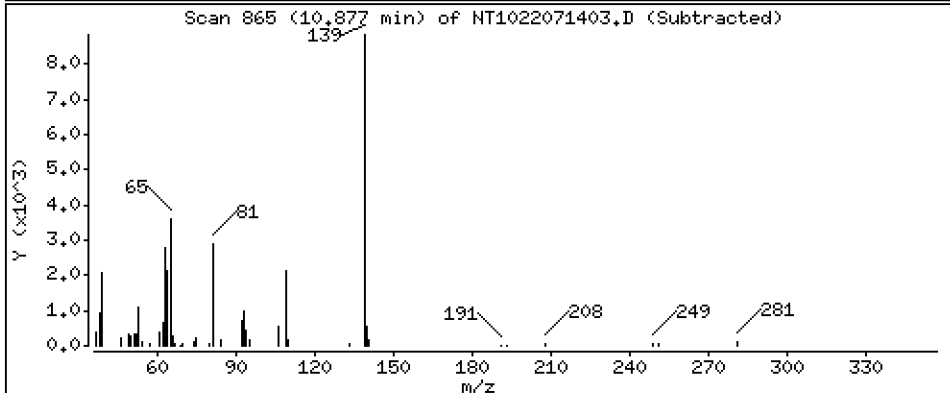
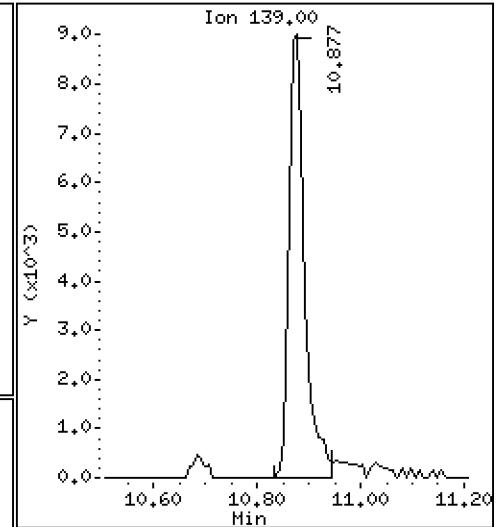
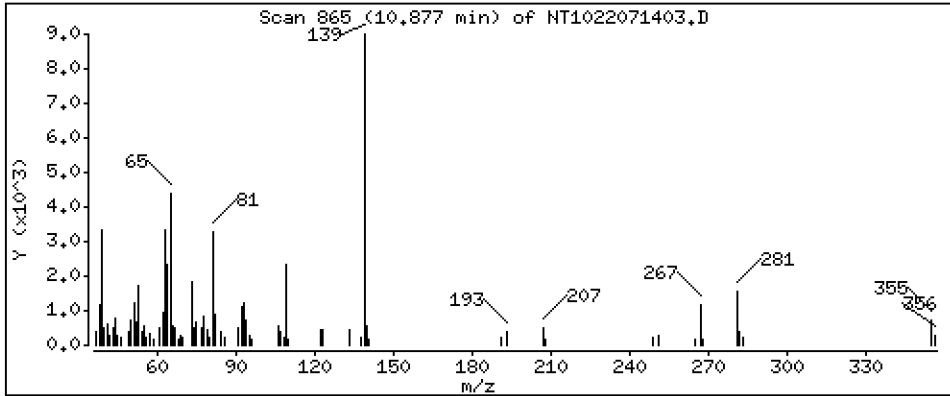
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,4089 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

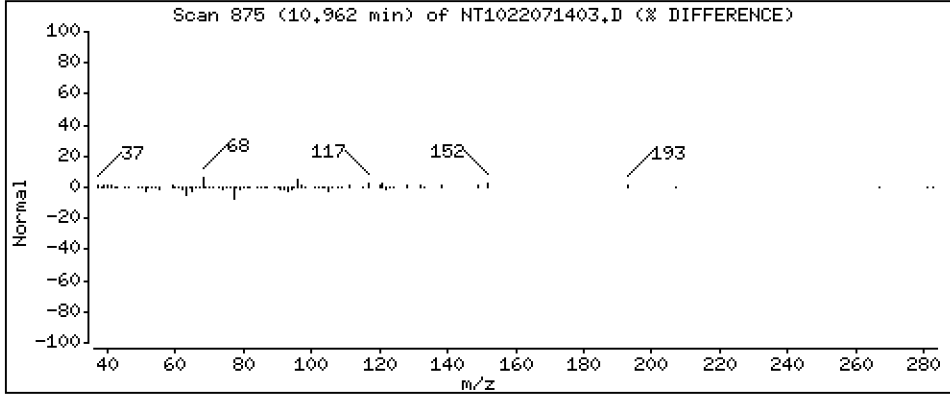
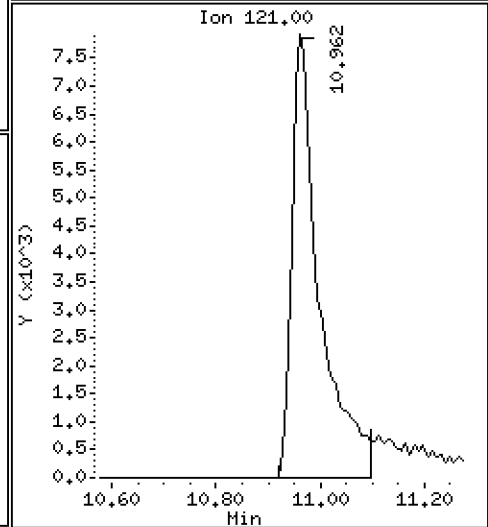
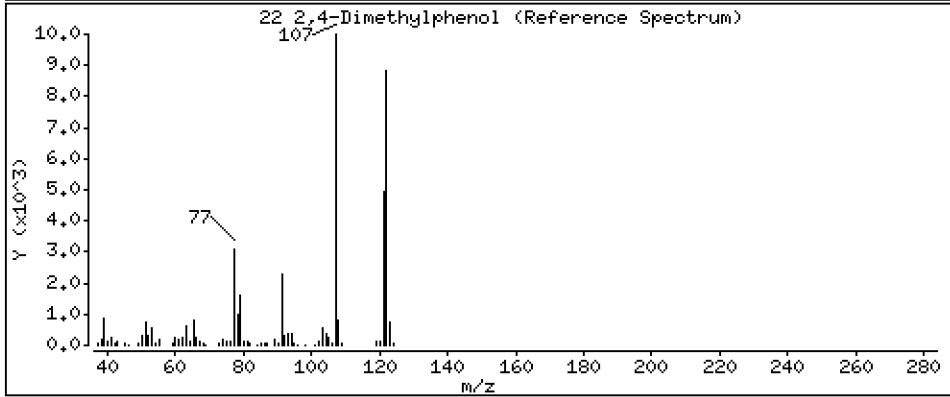
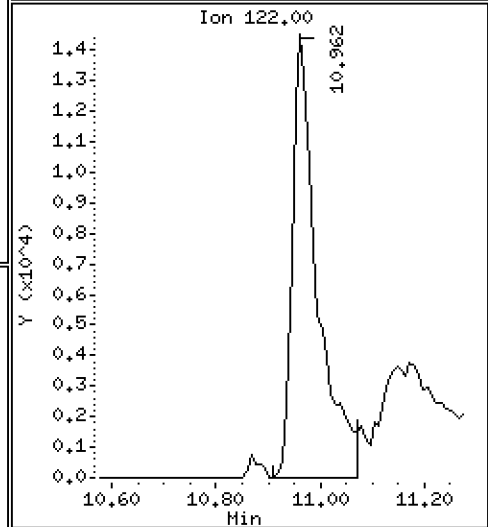
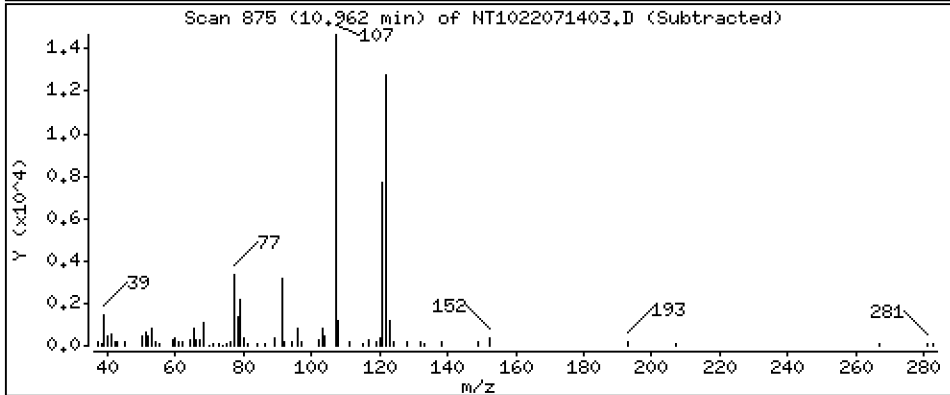
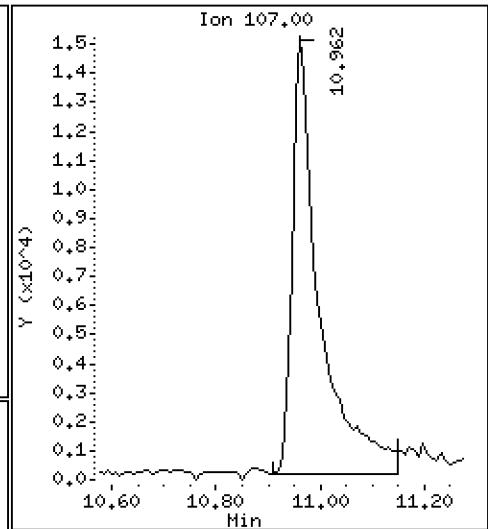
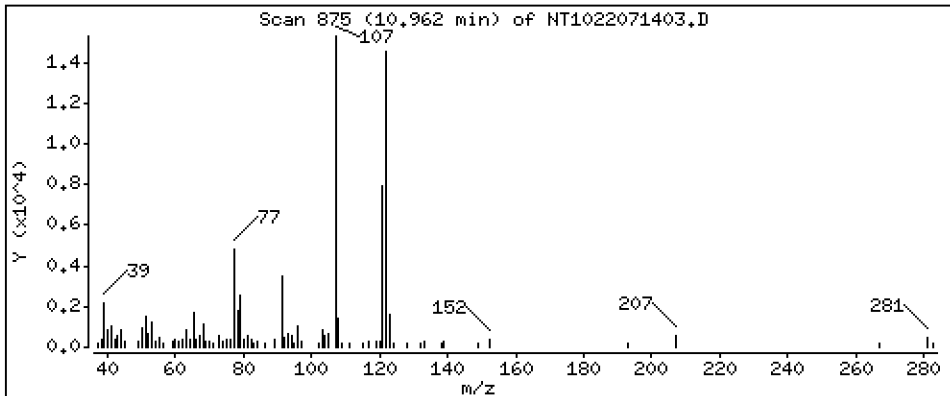
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.9557 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

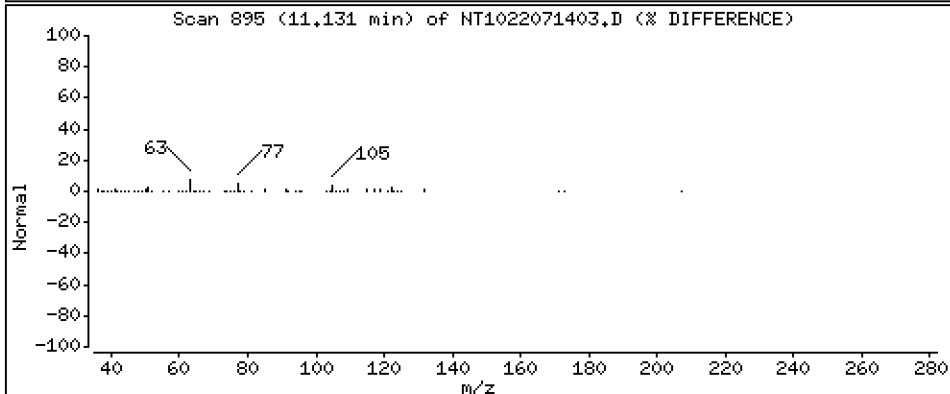
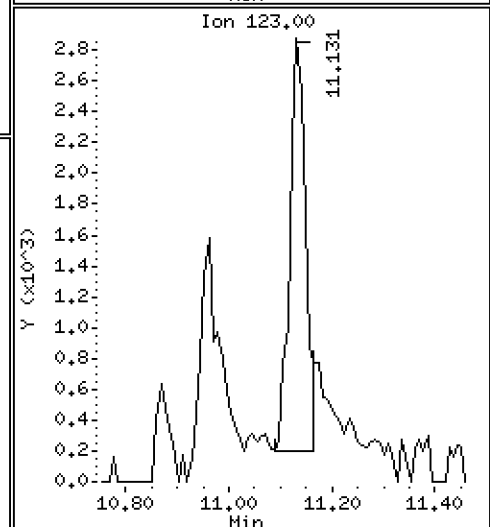
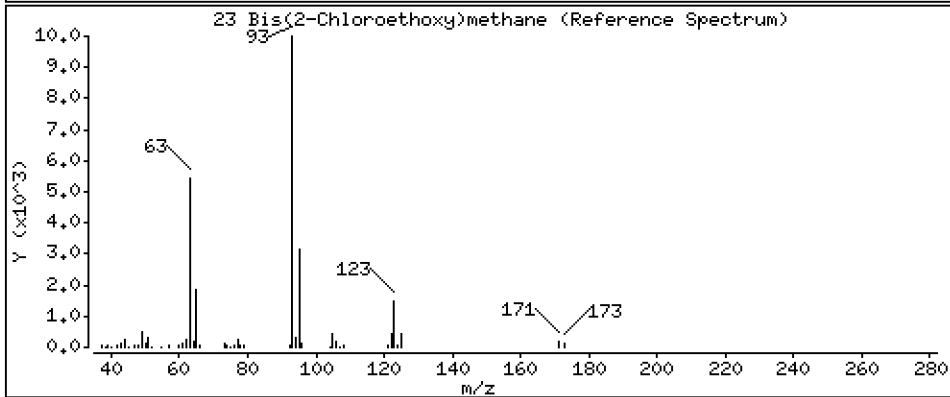
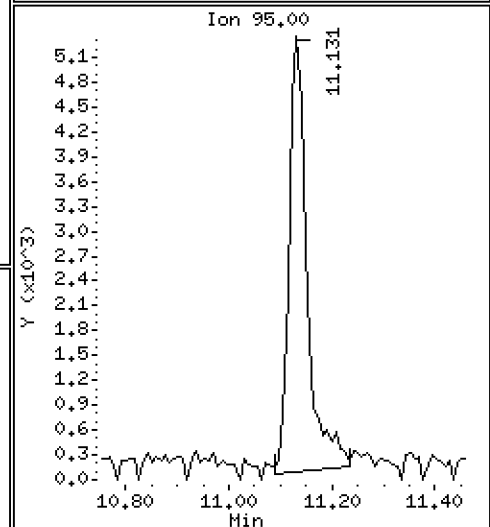
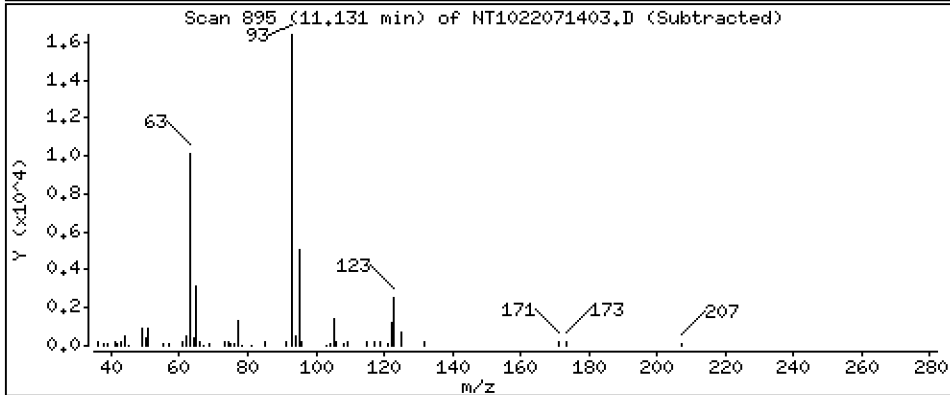
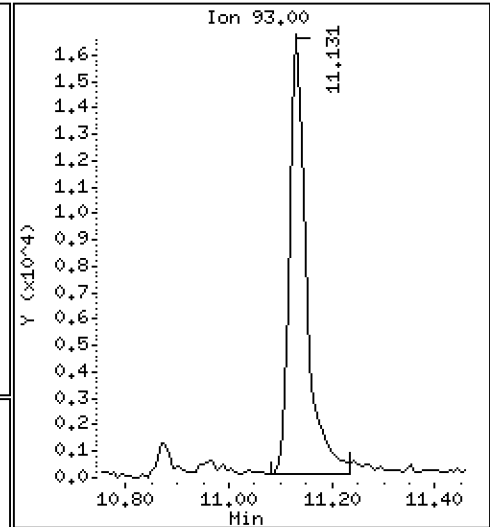
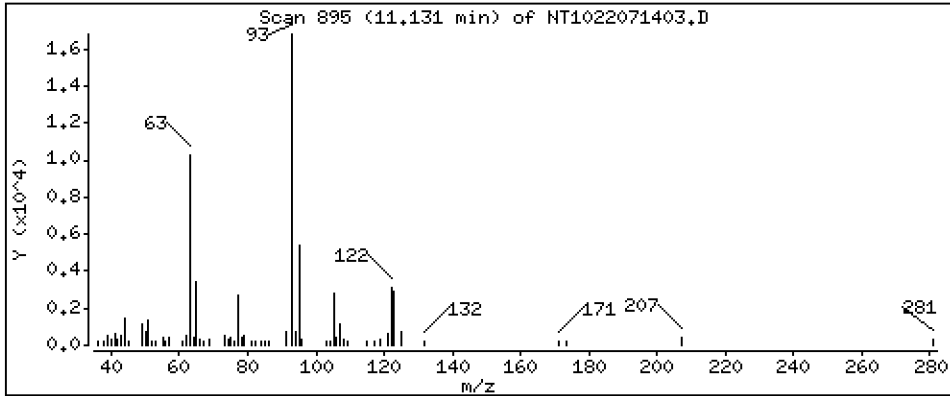
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,5739 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

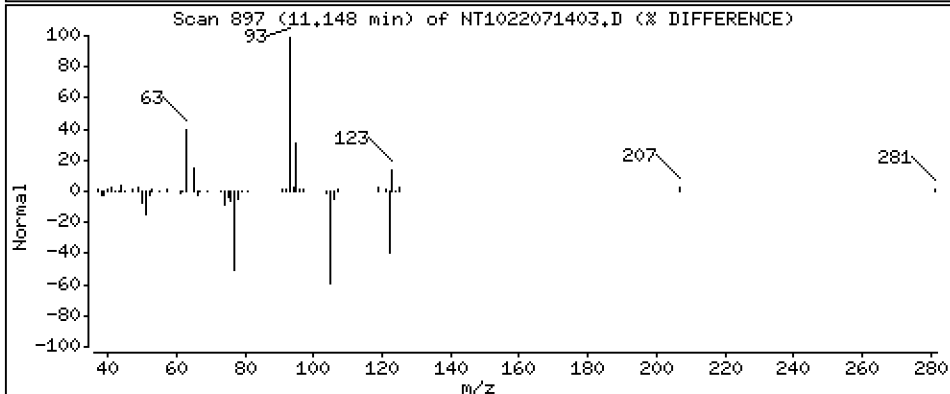
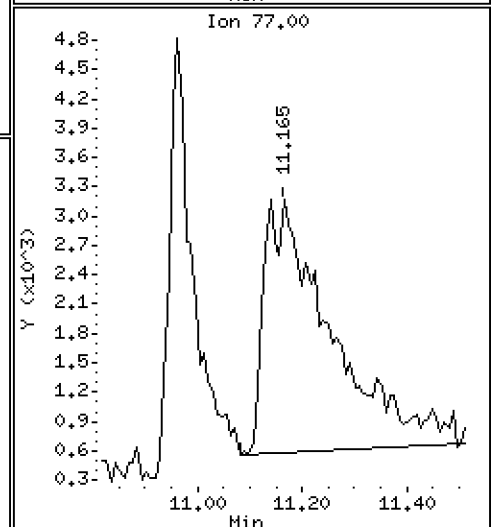
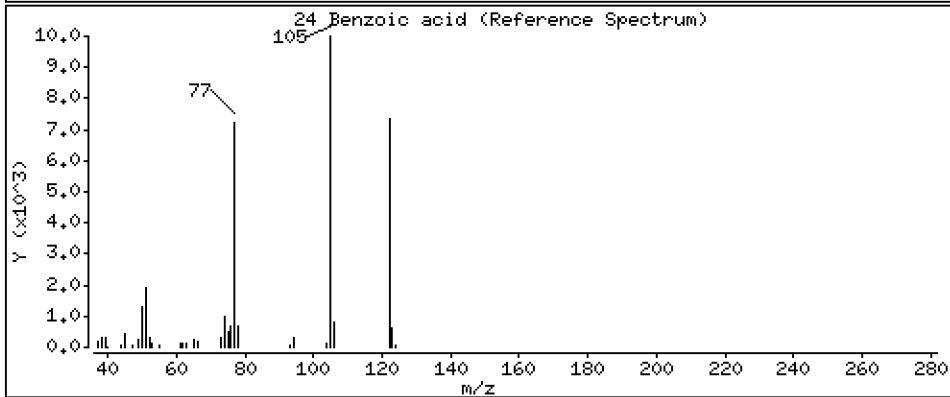
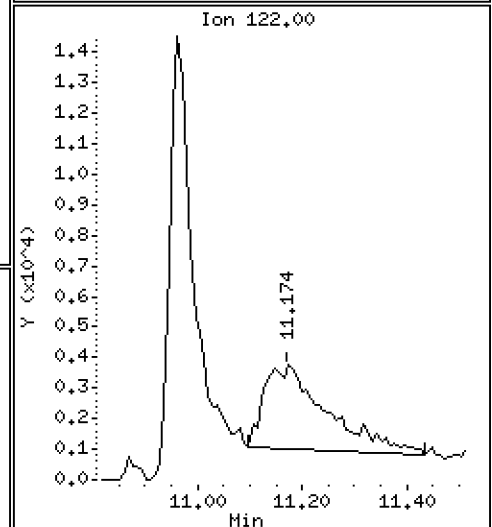
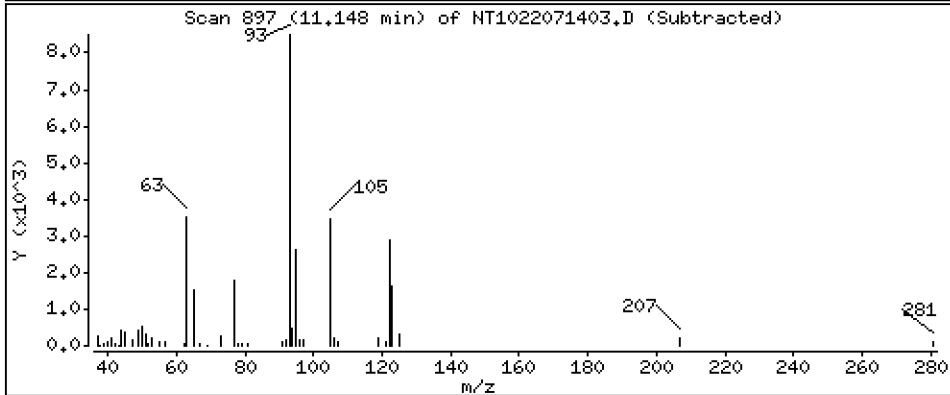
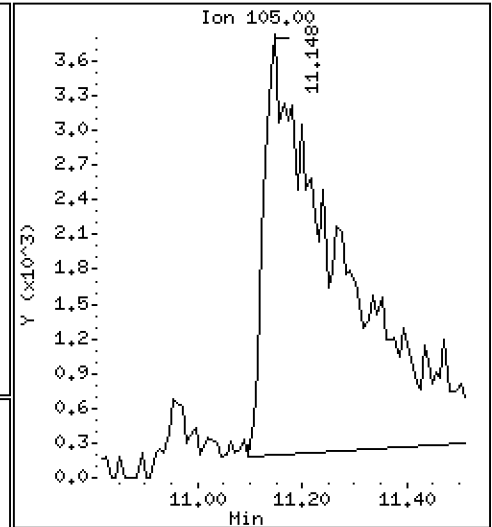
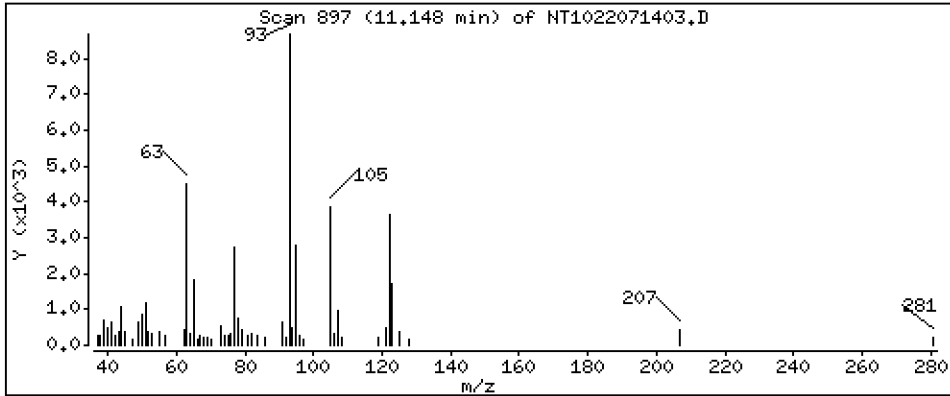
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 1,282 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

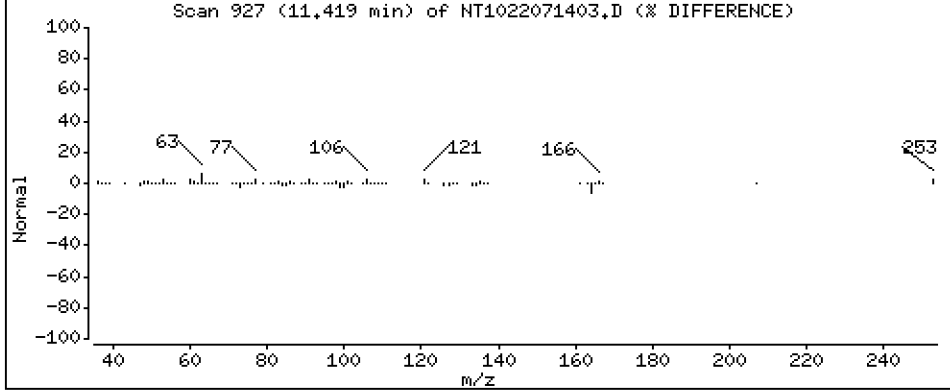
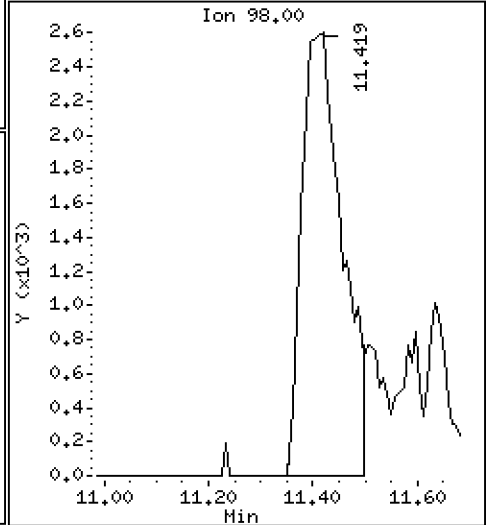
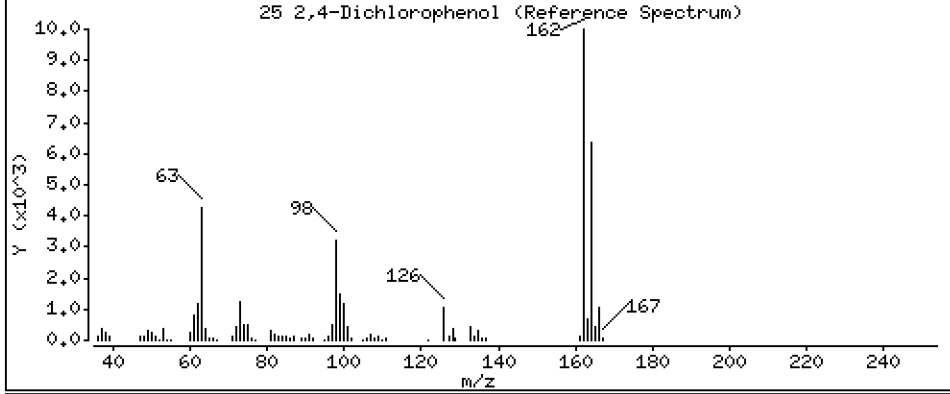
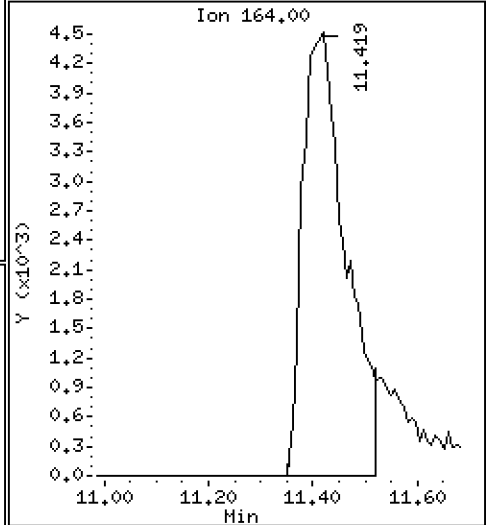
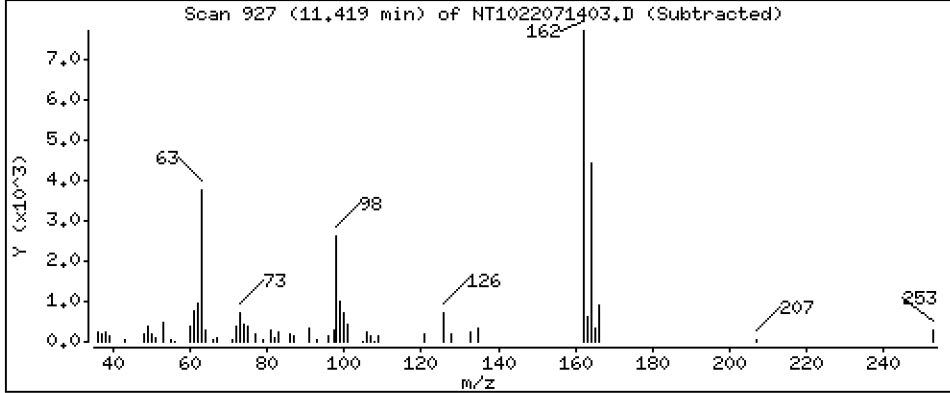
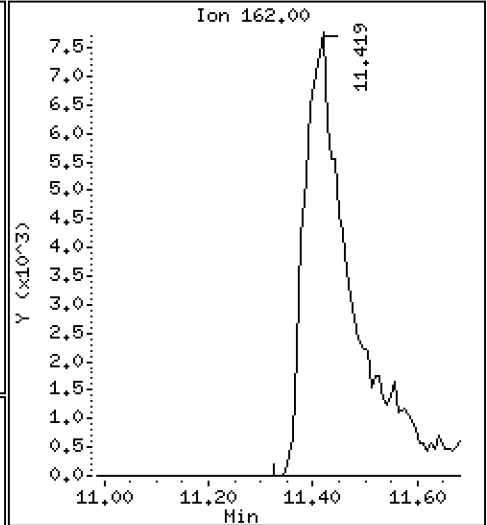
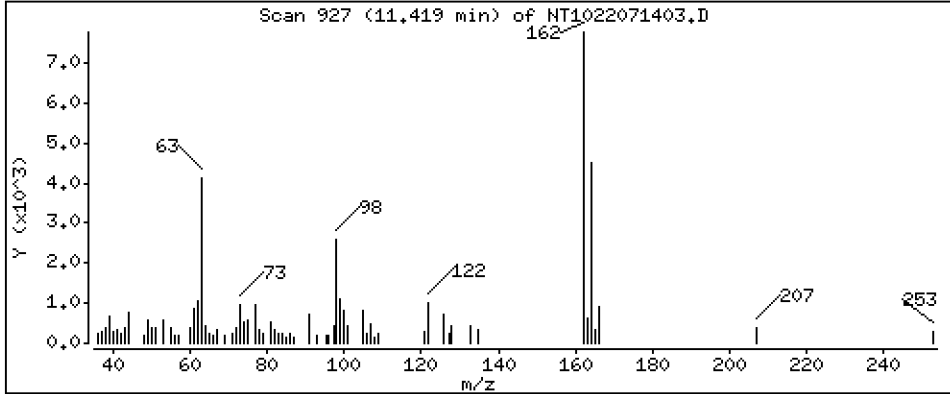
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,8348 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

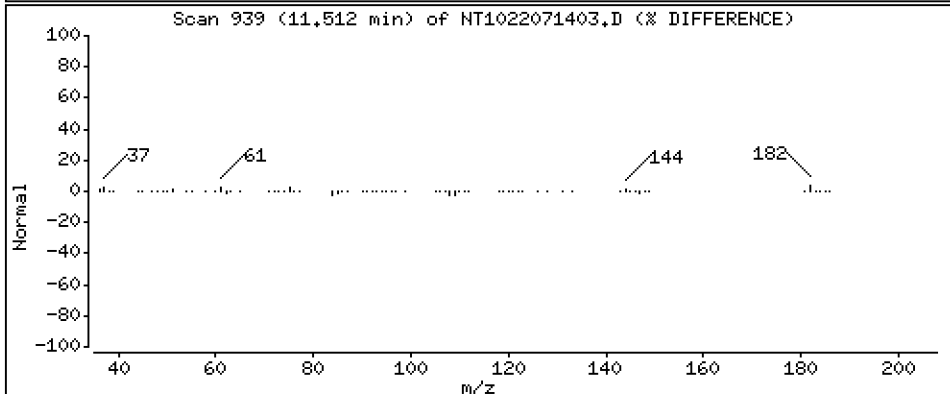
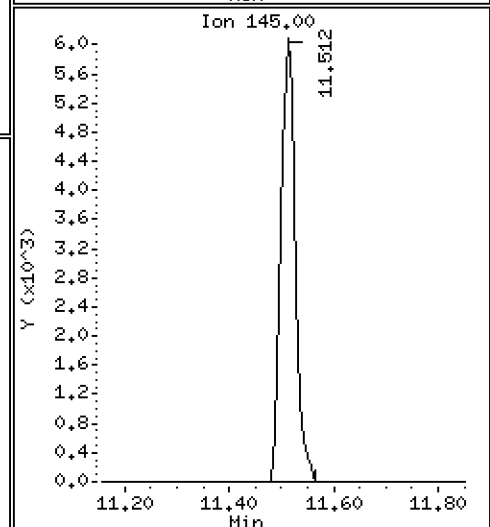
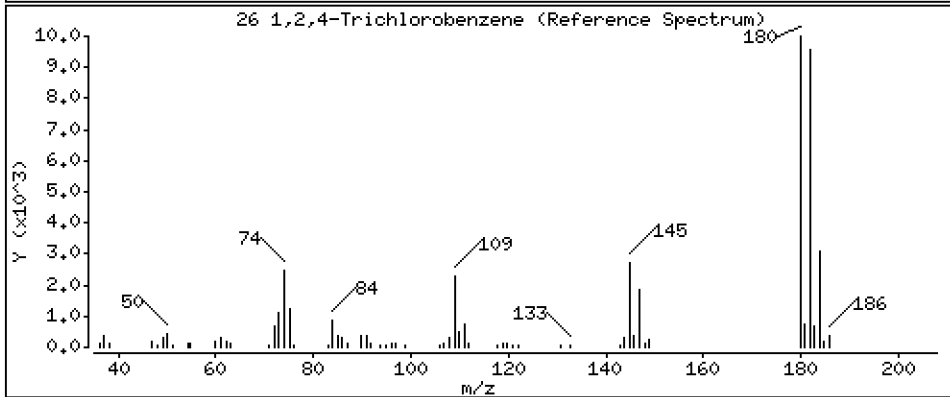
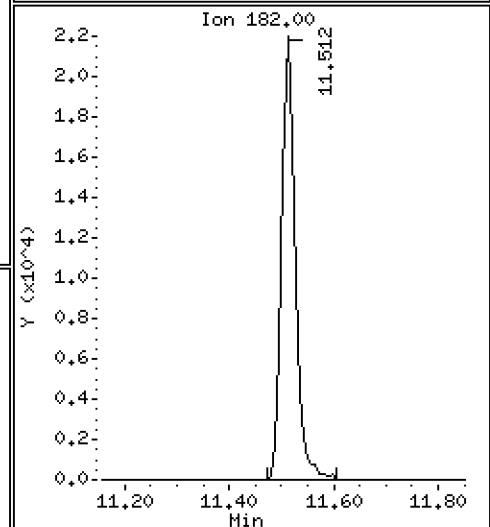
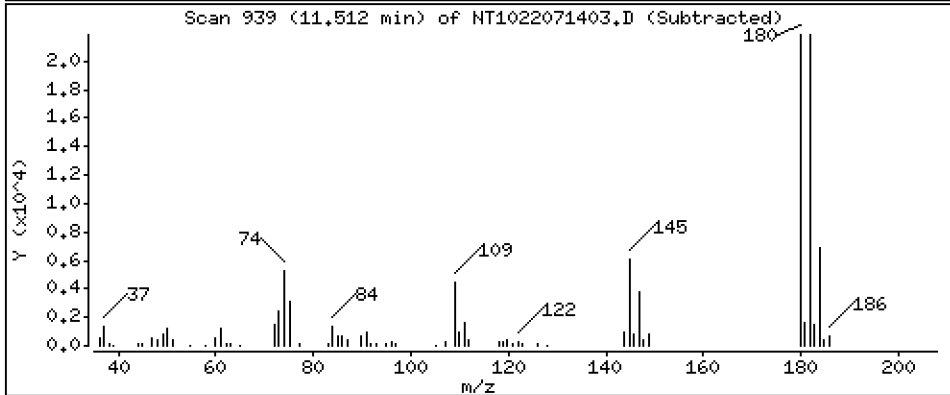
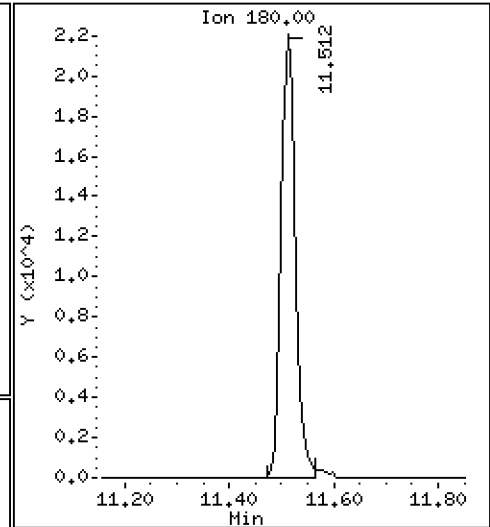
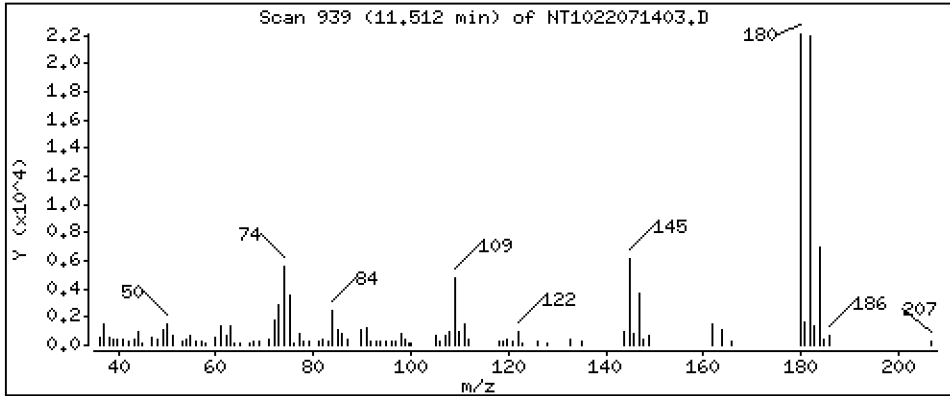
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,6352 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

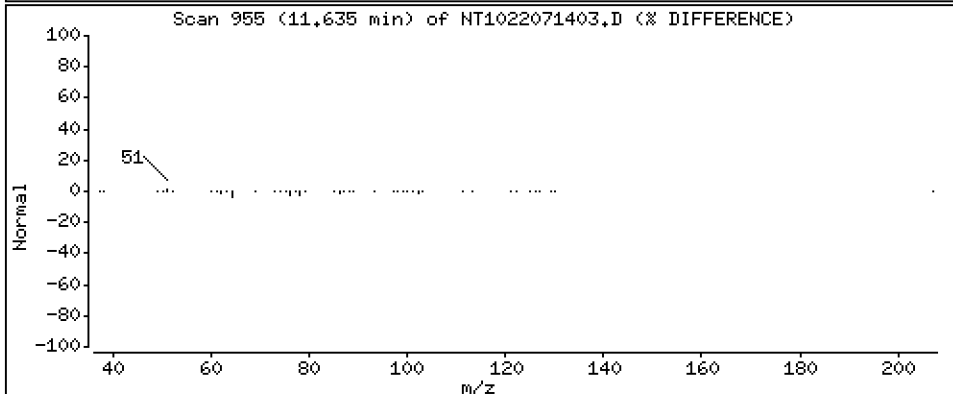
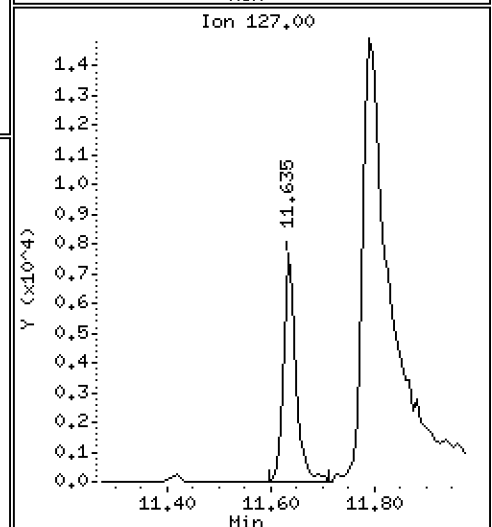
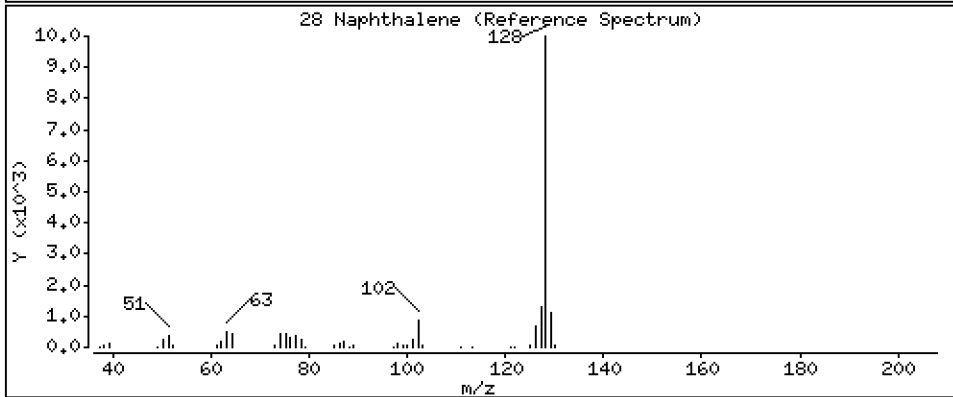
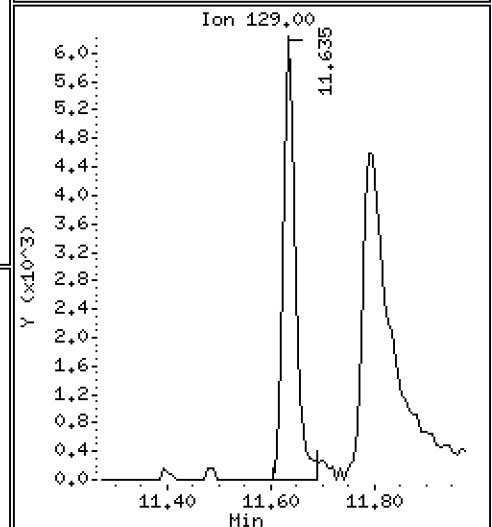
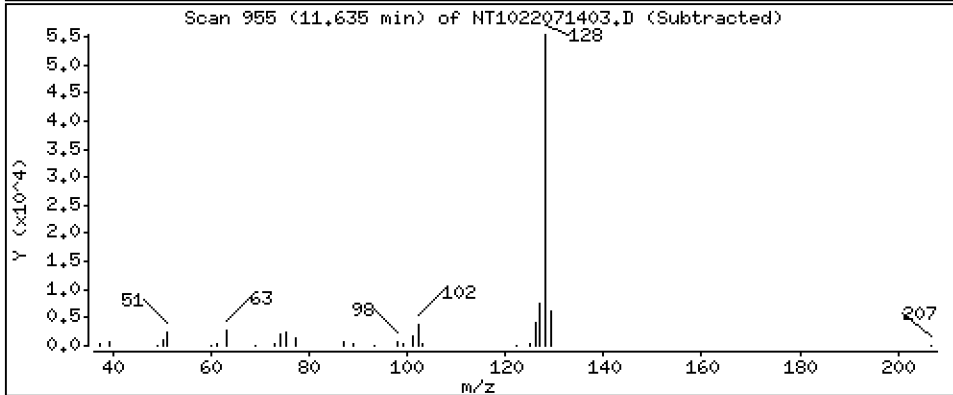
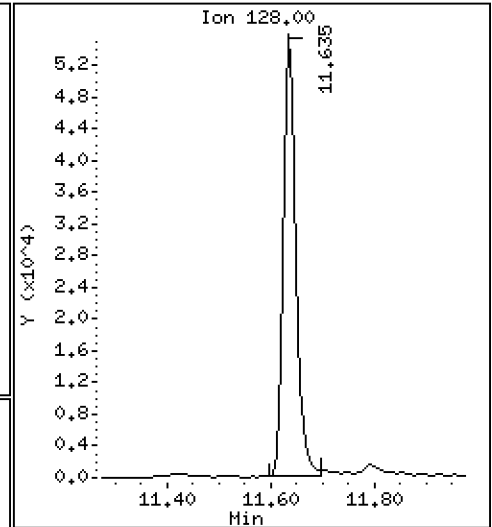
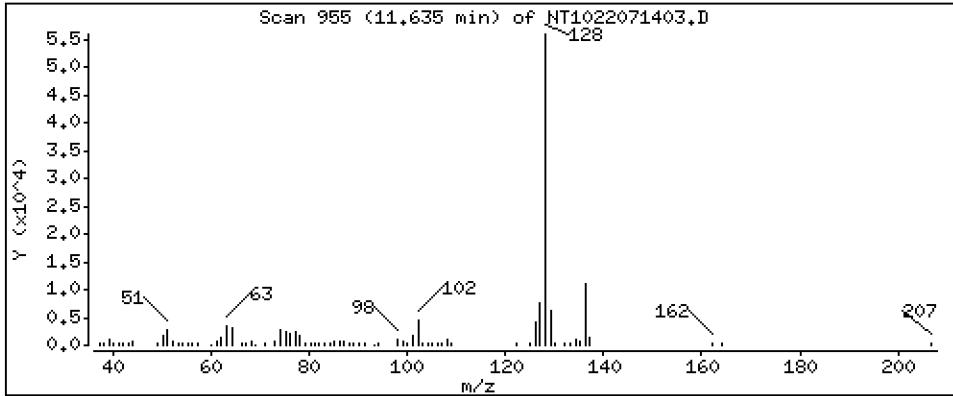
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,5309 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

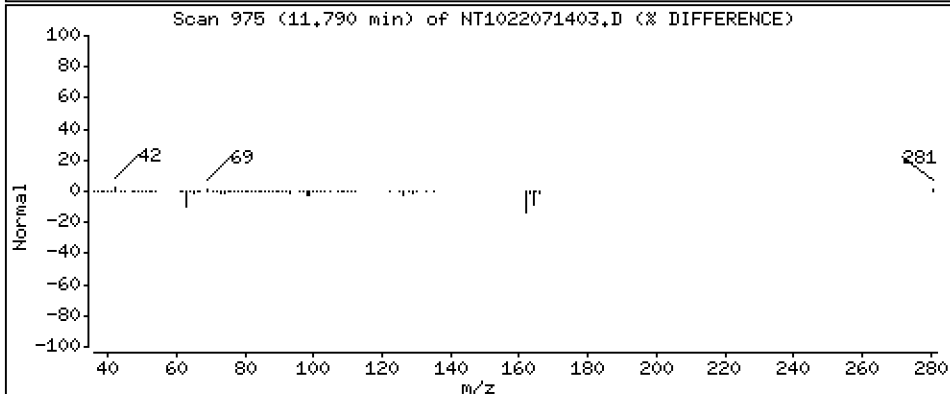
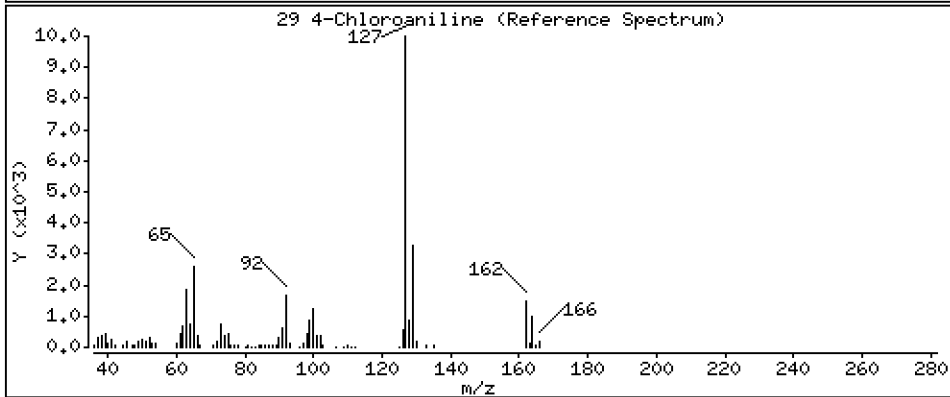
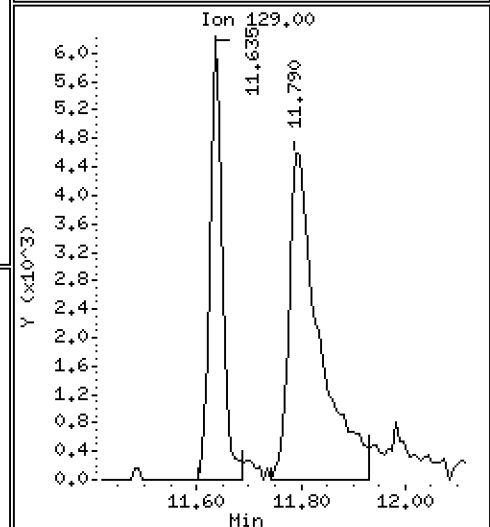
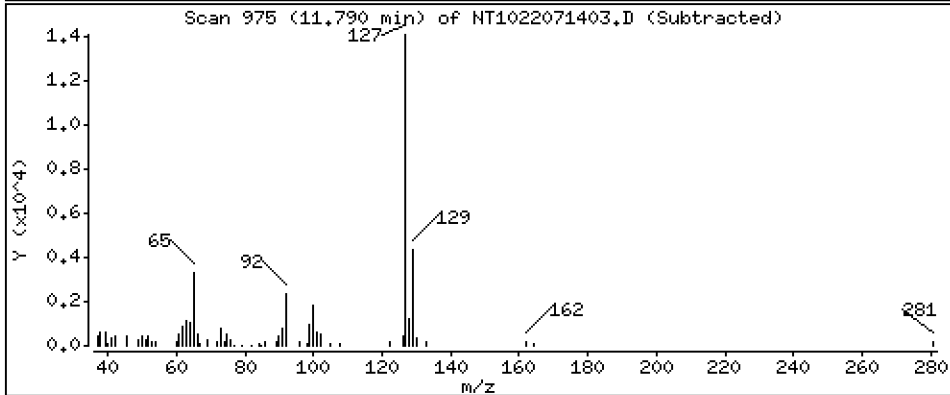
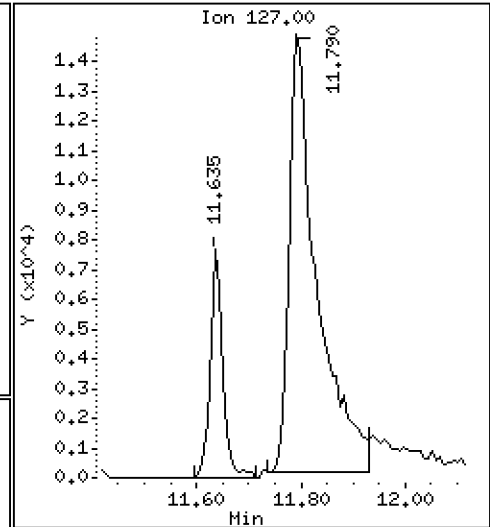
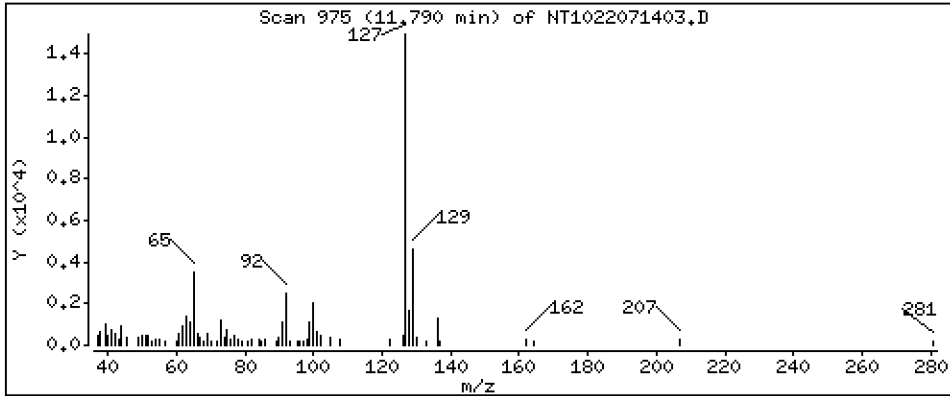
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,7318 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

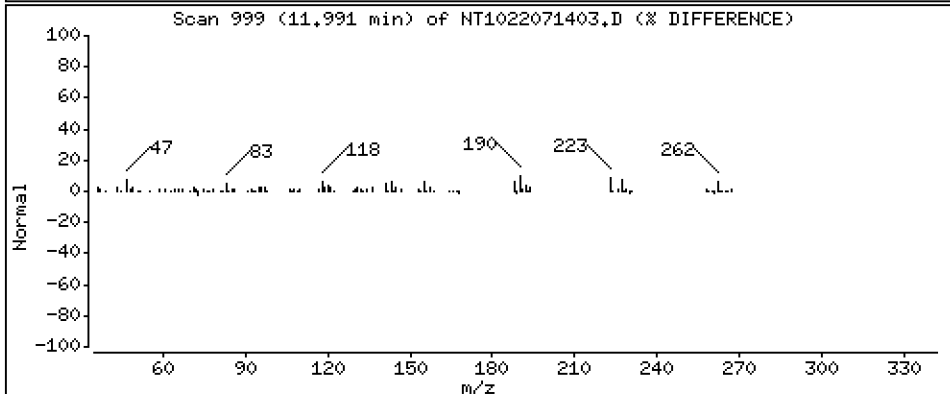
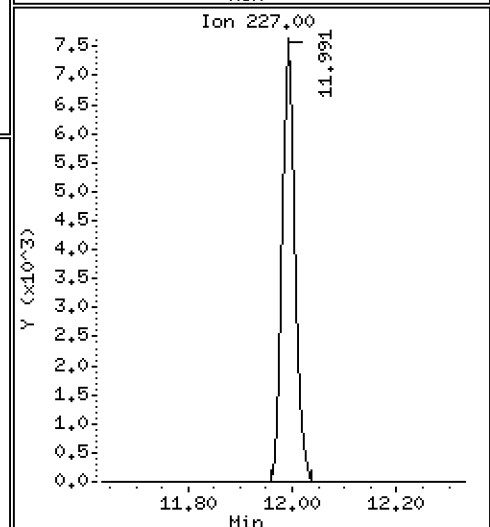
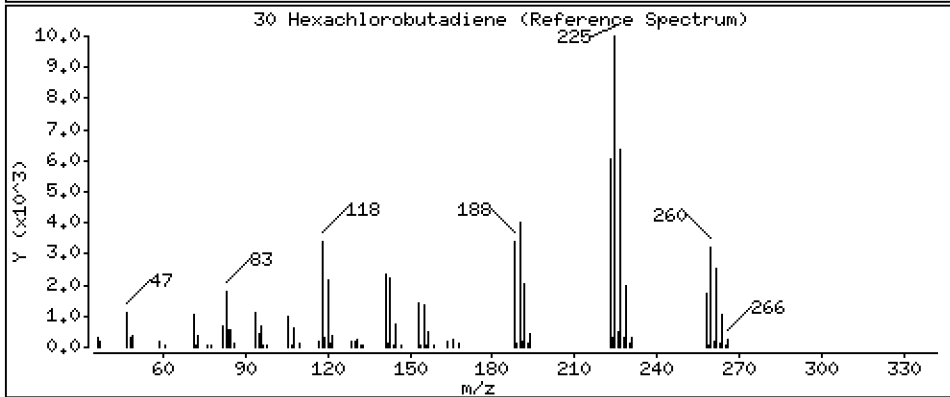
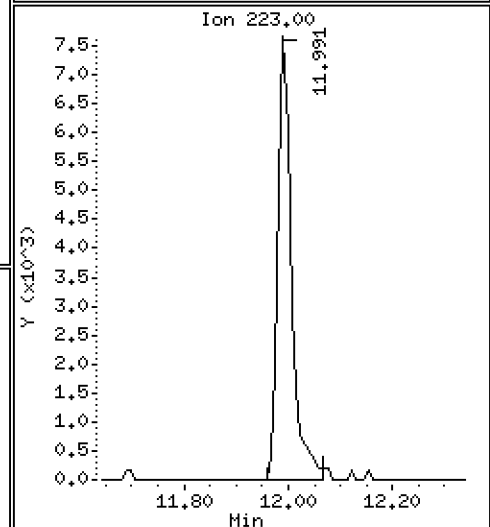
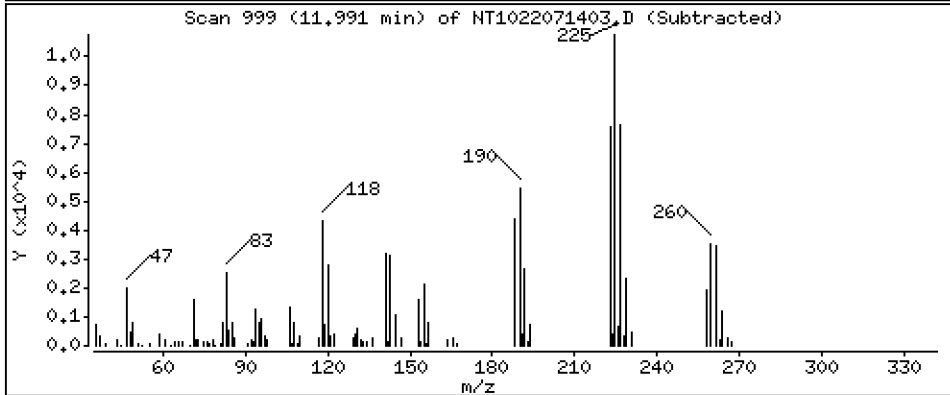
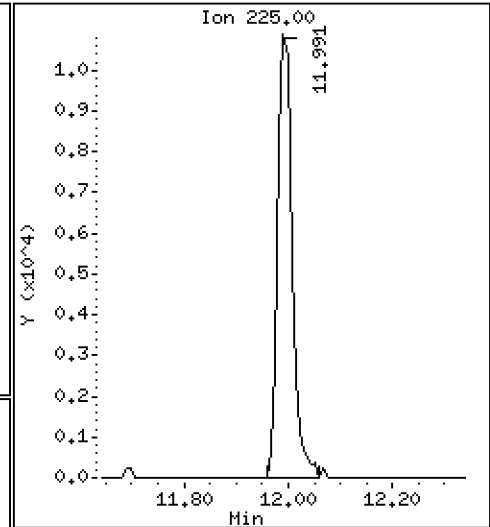
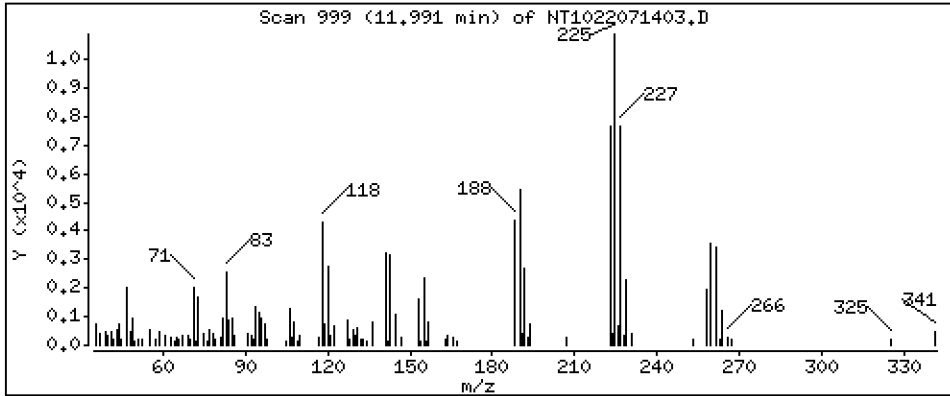
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,6722 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

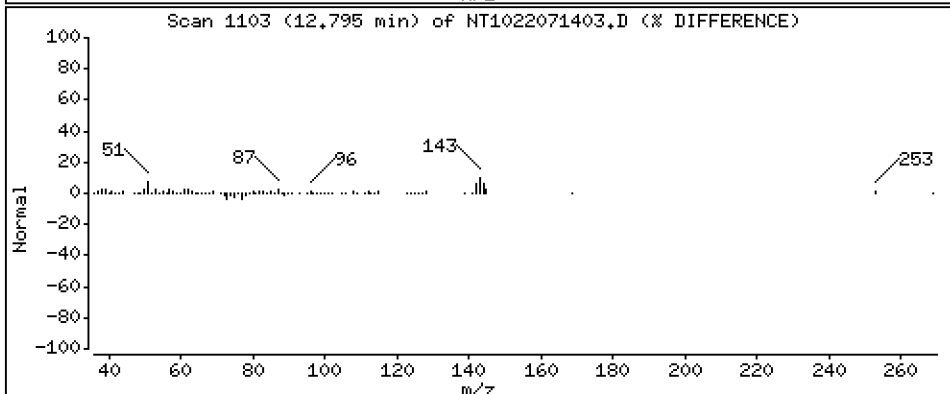
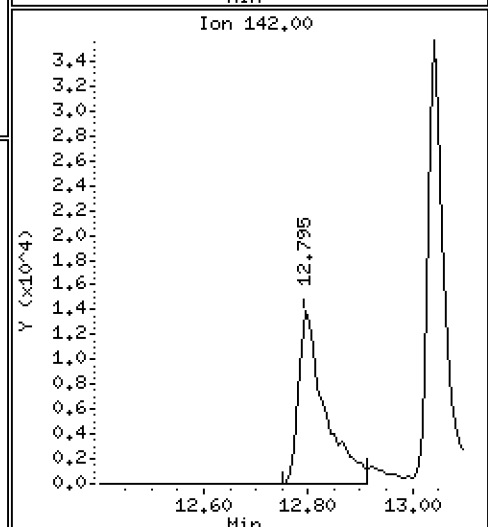
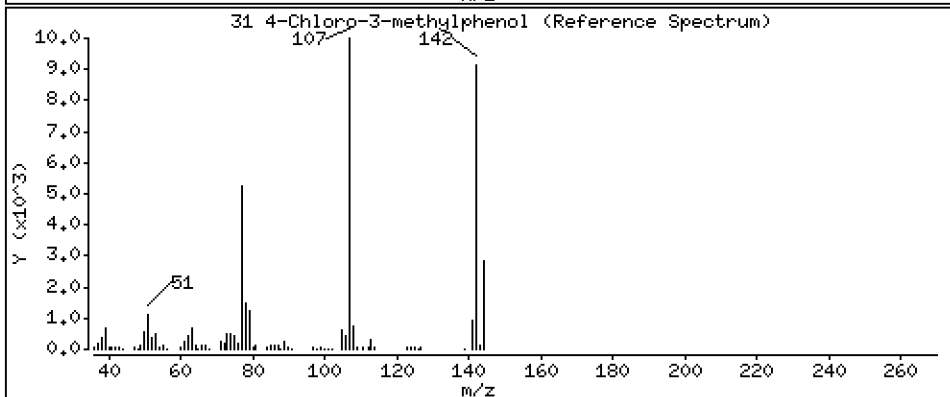
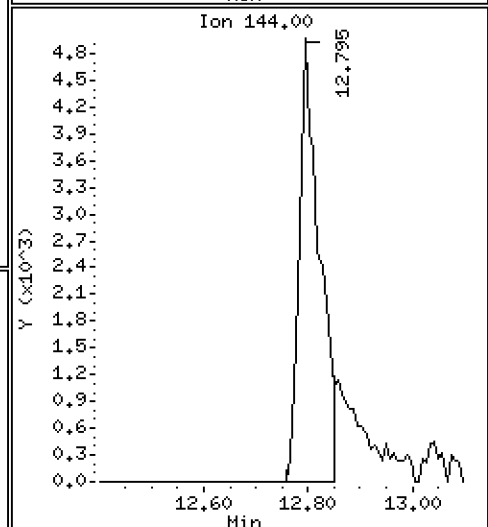
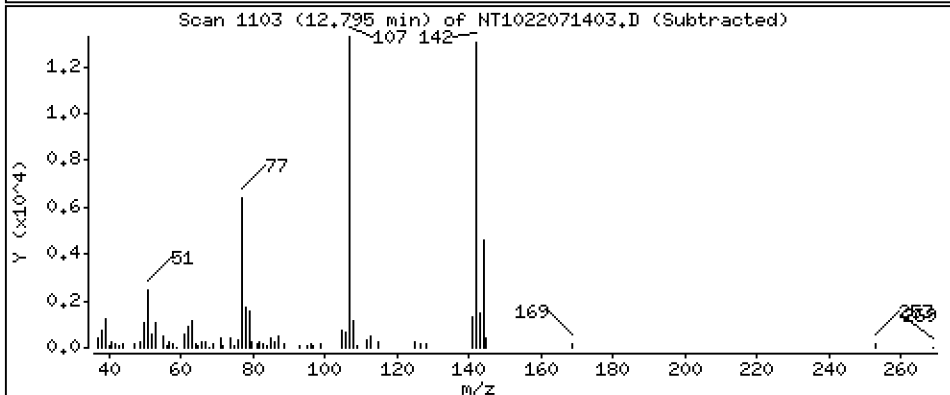
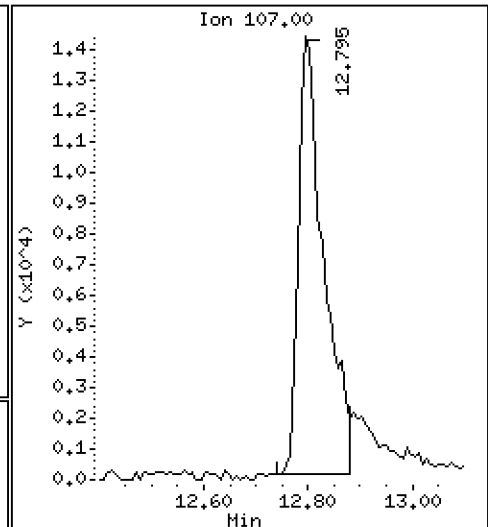
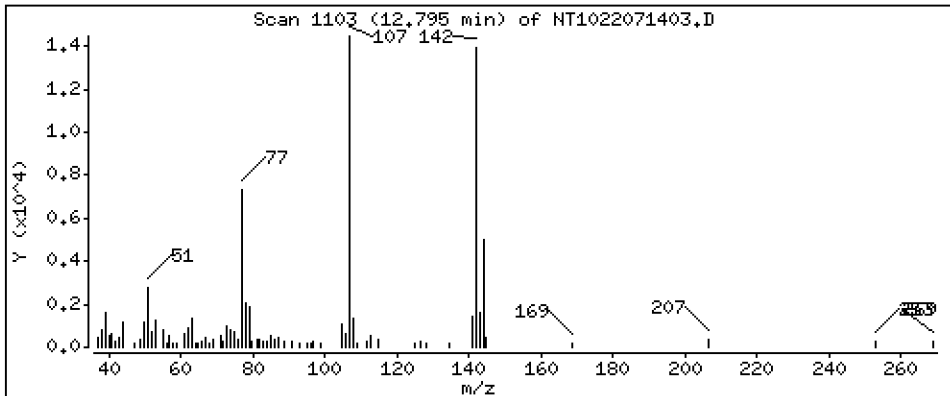
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,7084 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

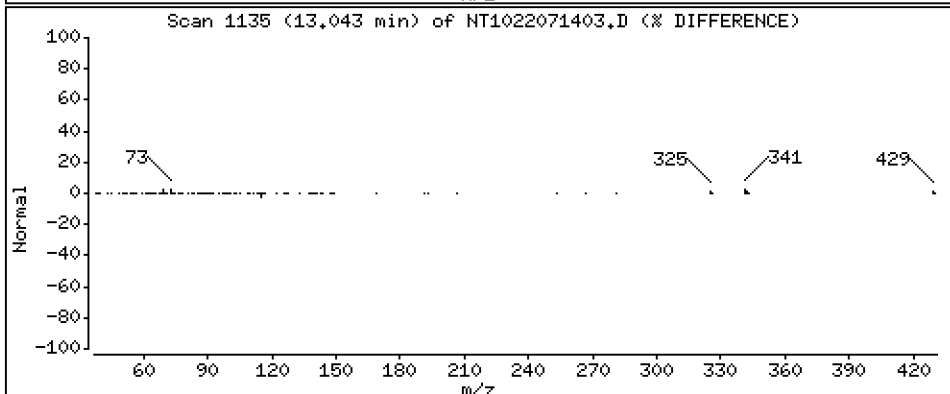
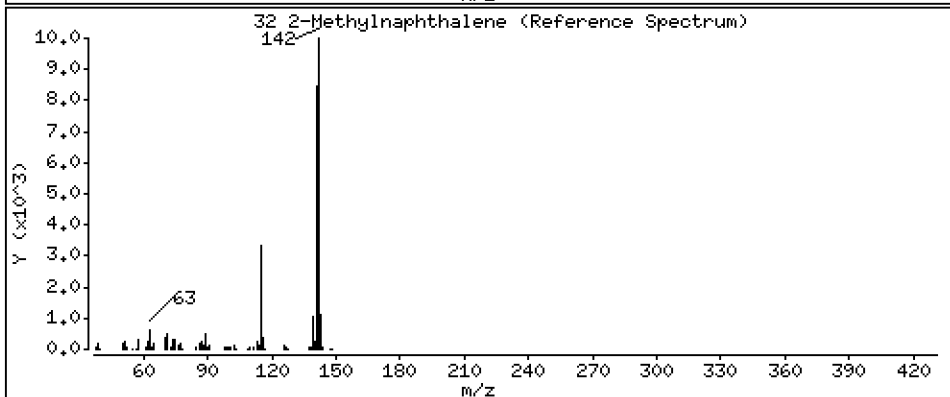
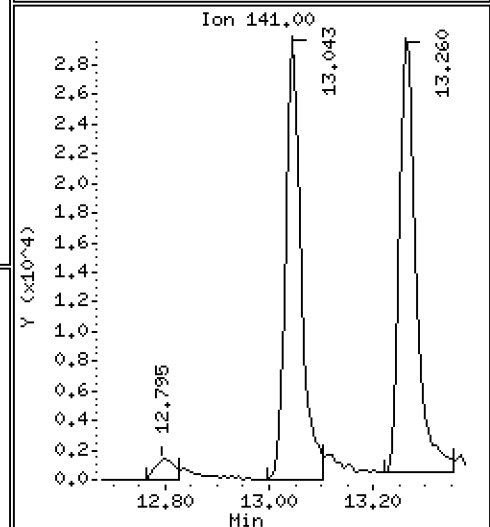
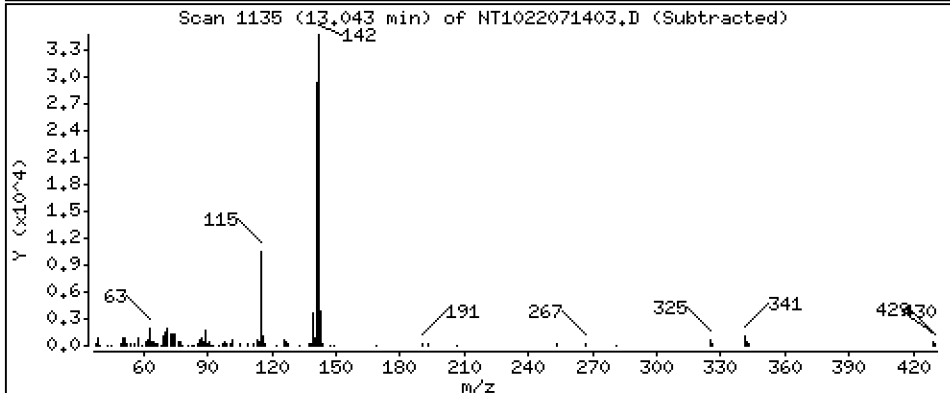
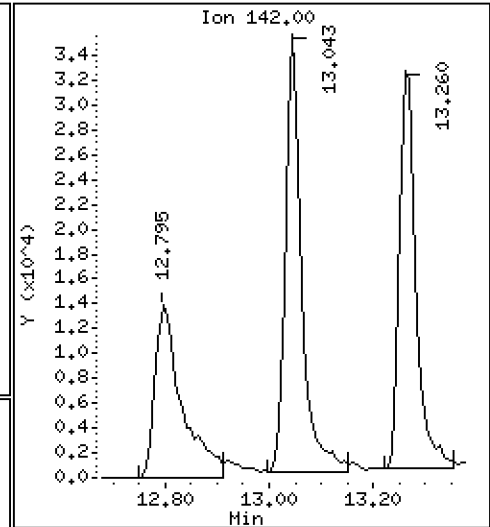
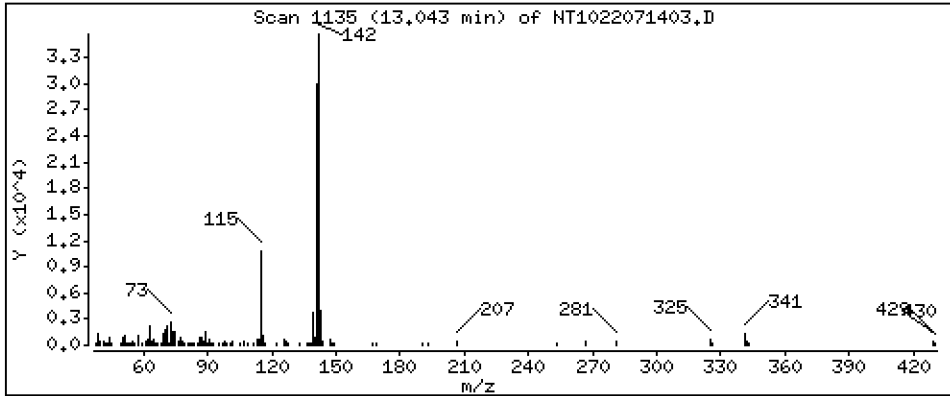
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,4319 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

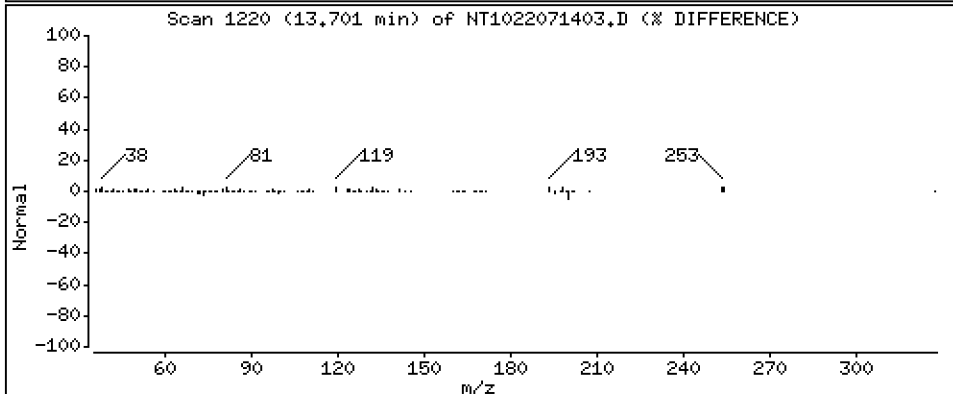
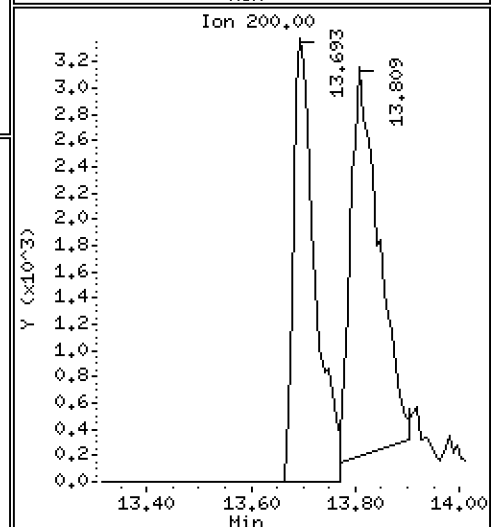
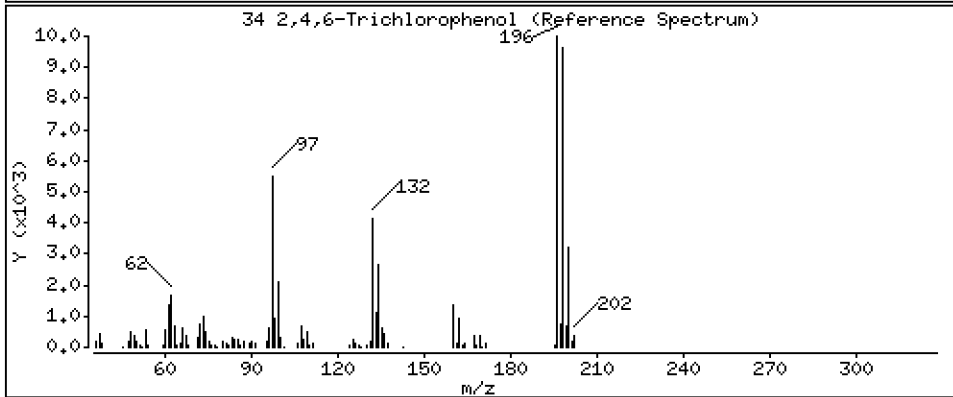
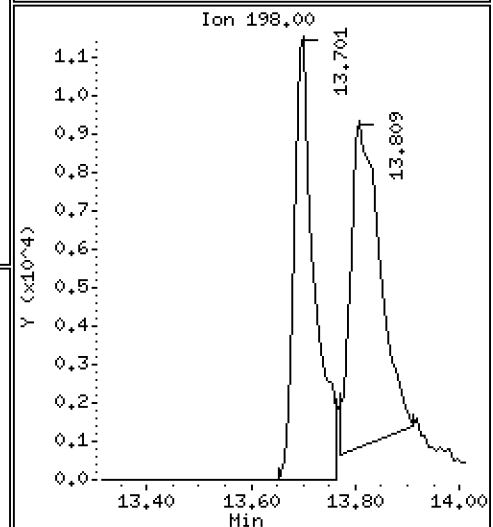
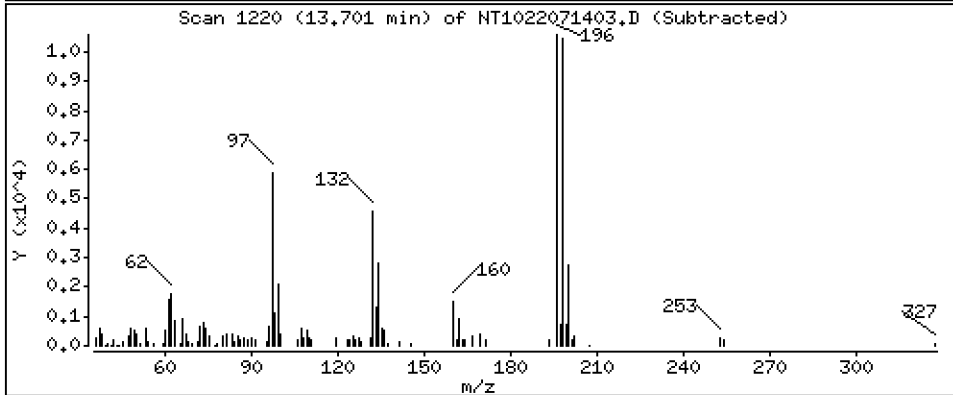
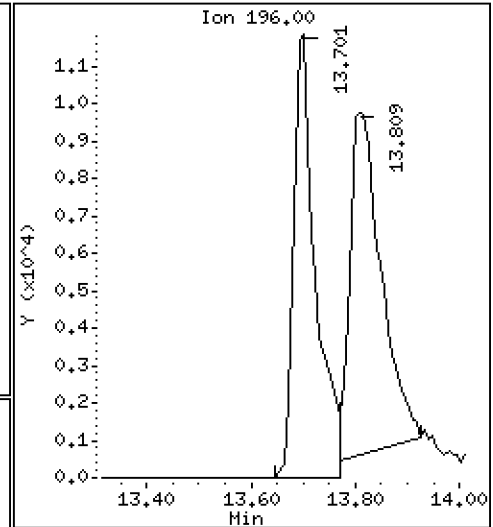
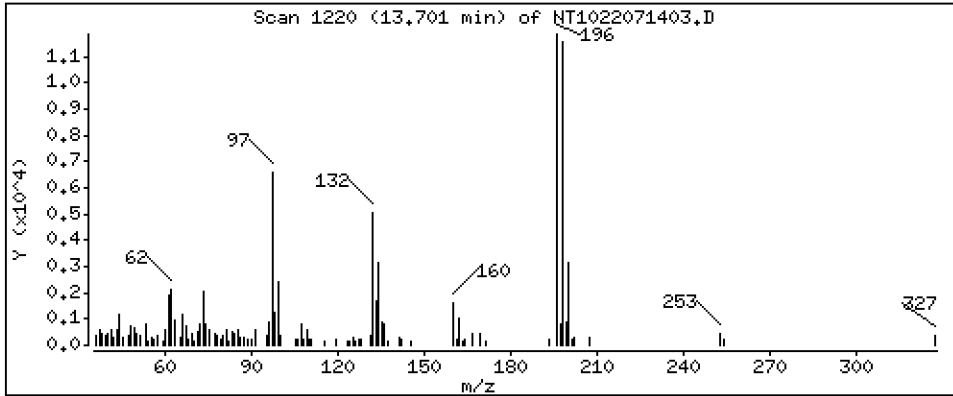
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,8414 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

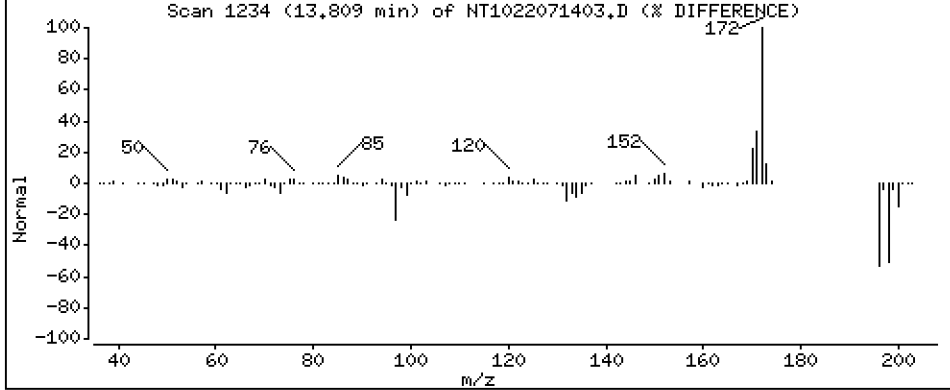
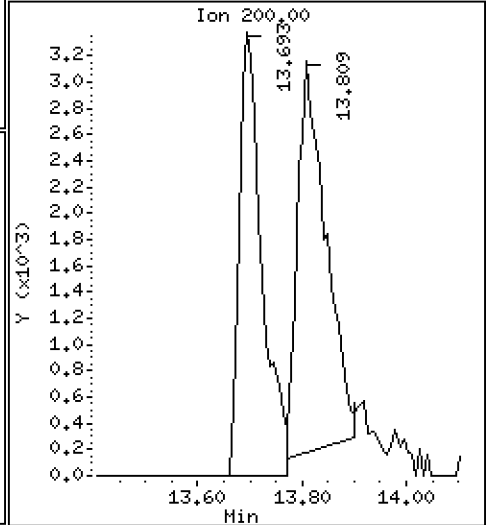
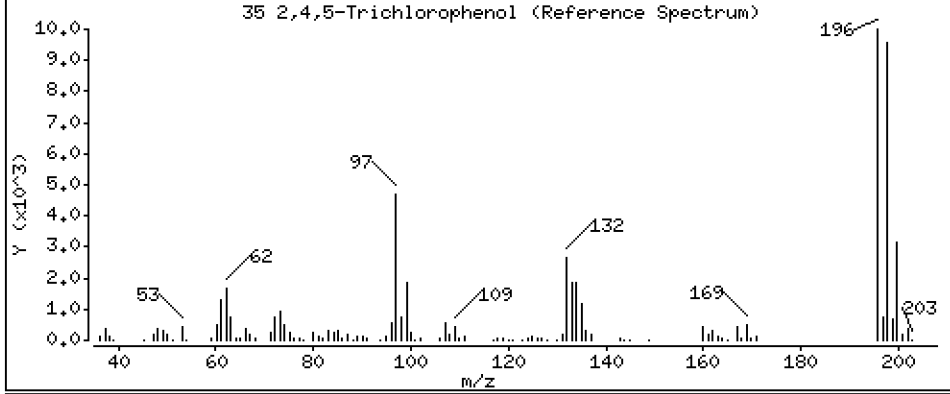
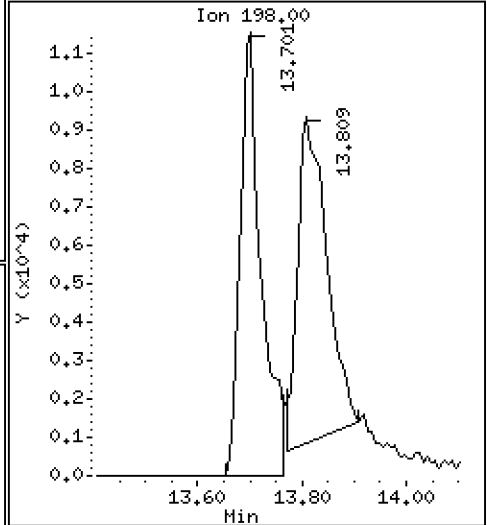
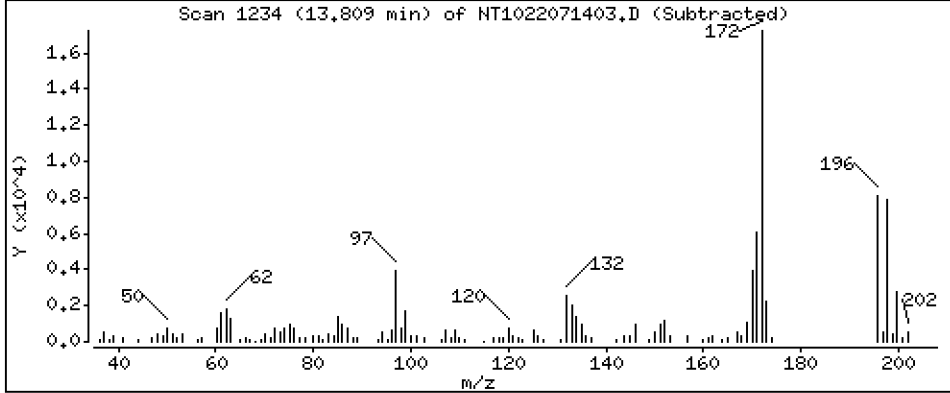
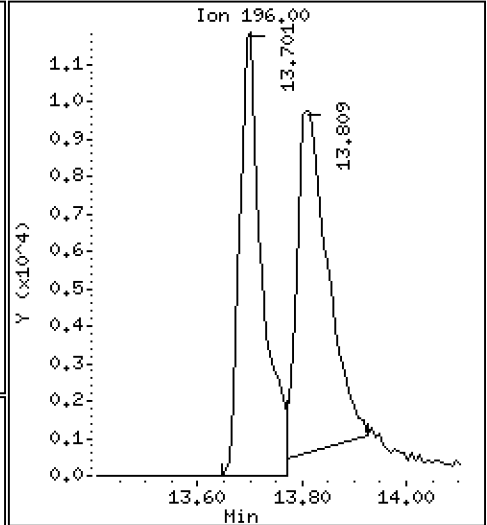
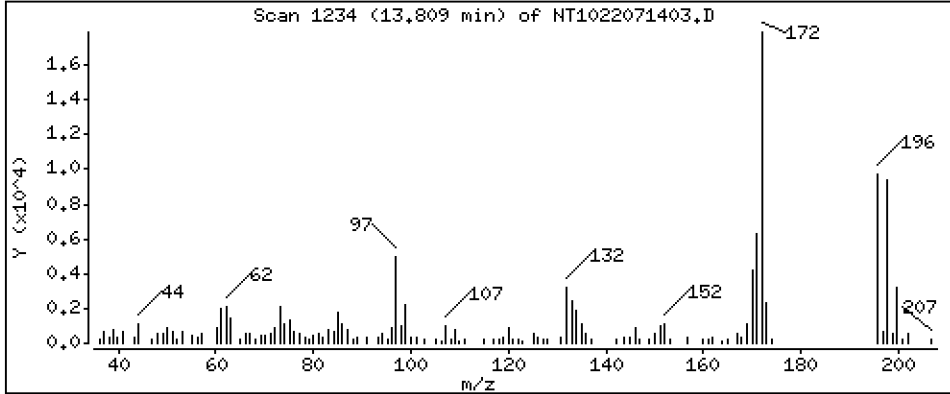
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,7449 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

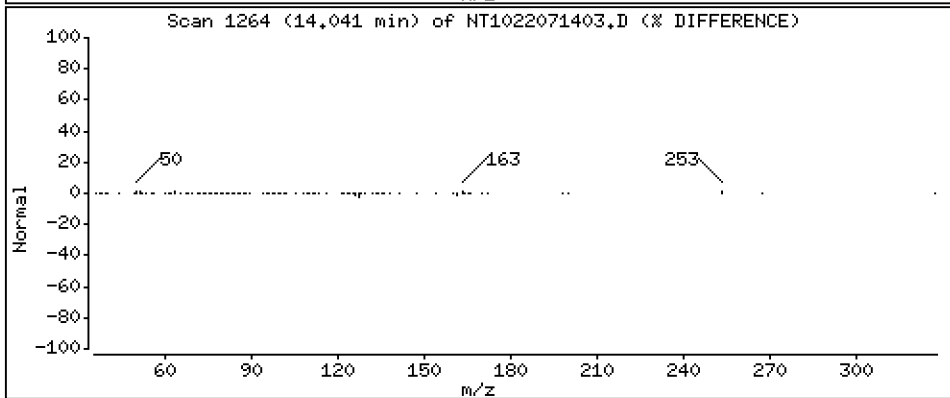
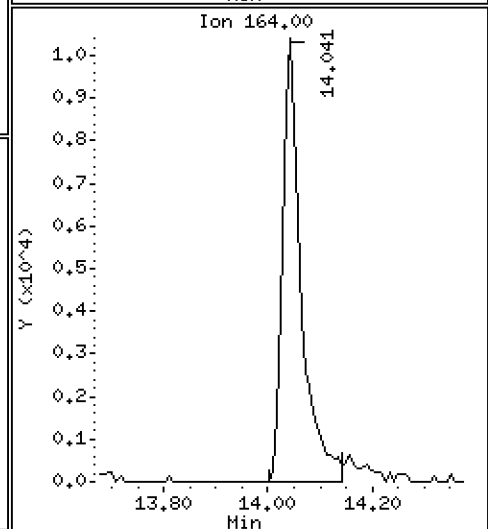
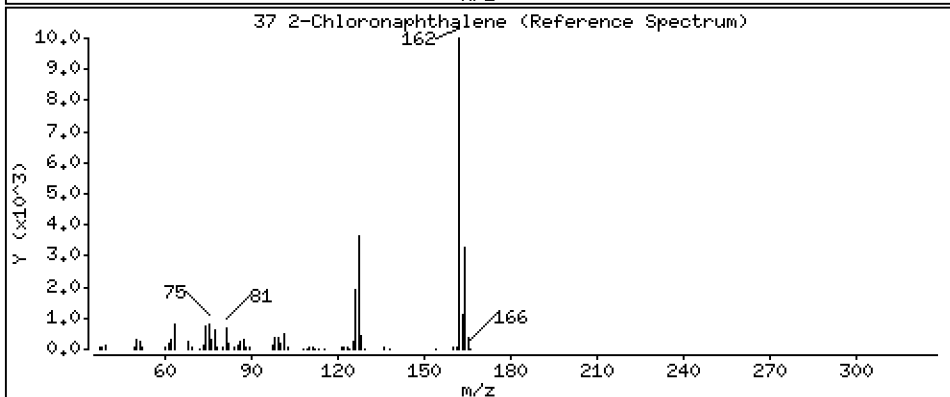
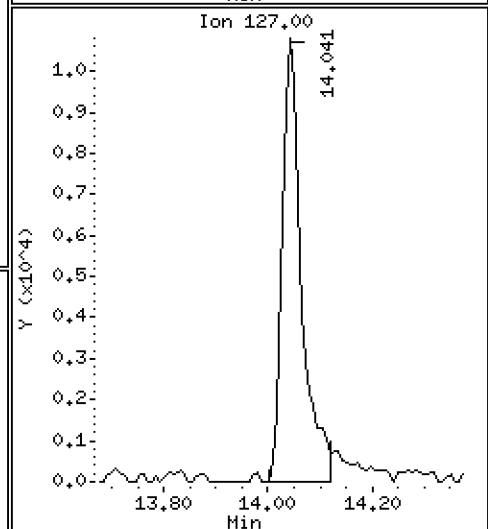
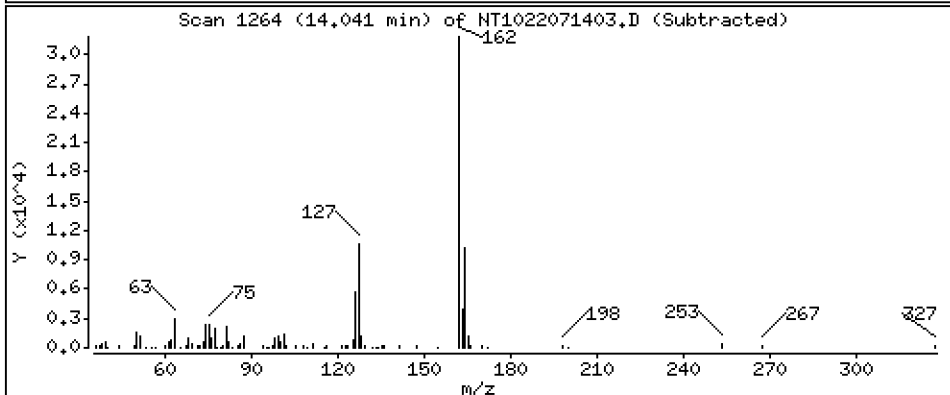
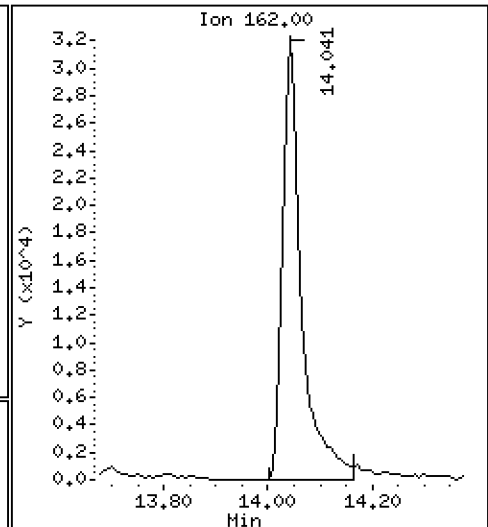
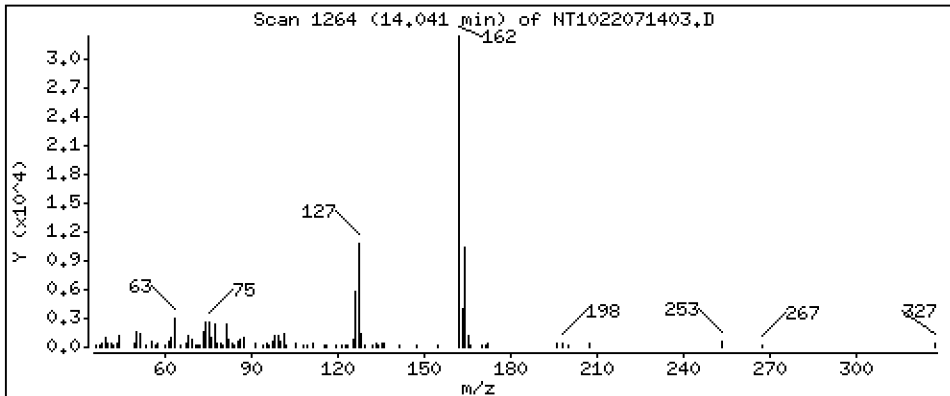
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,5400 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

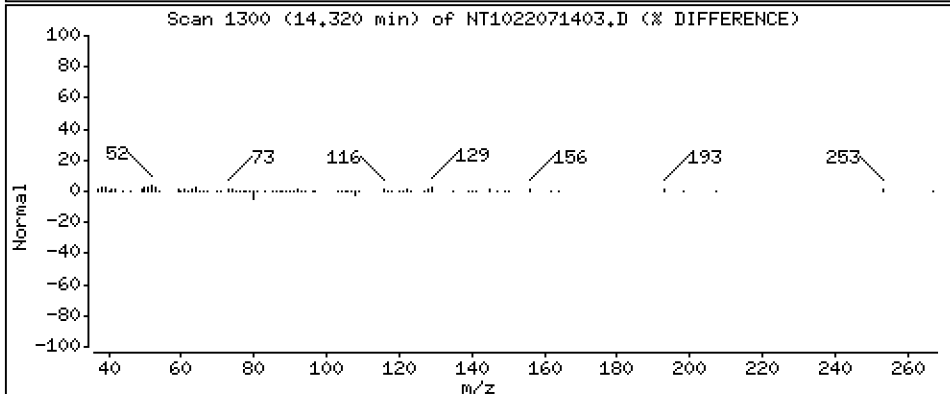
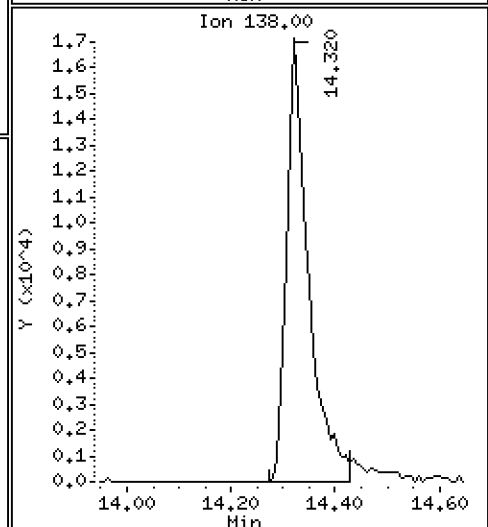
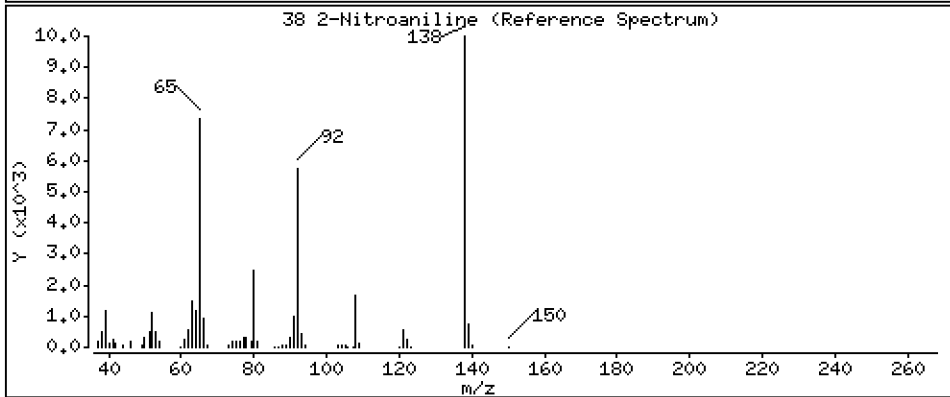
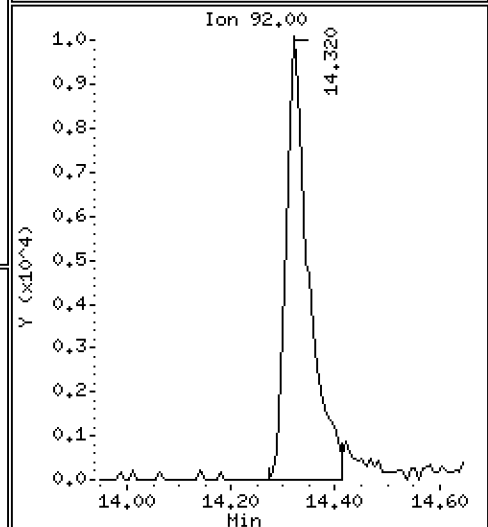
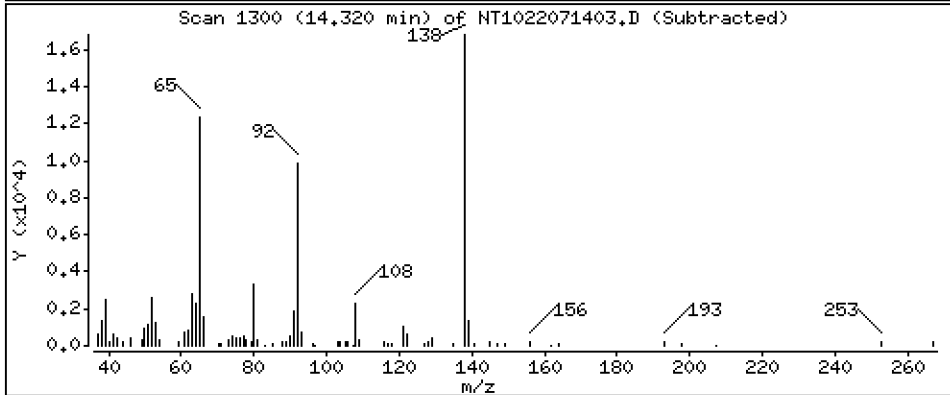
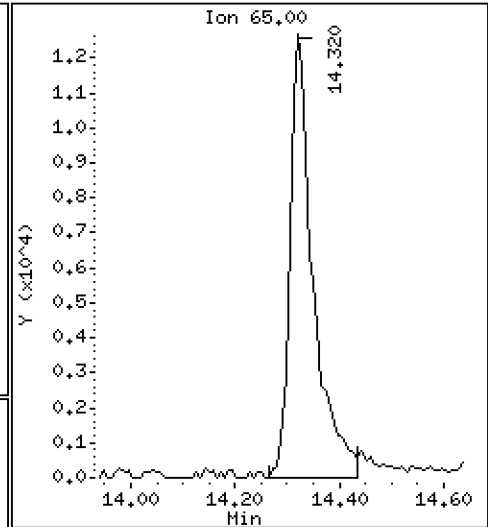
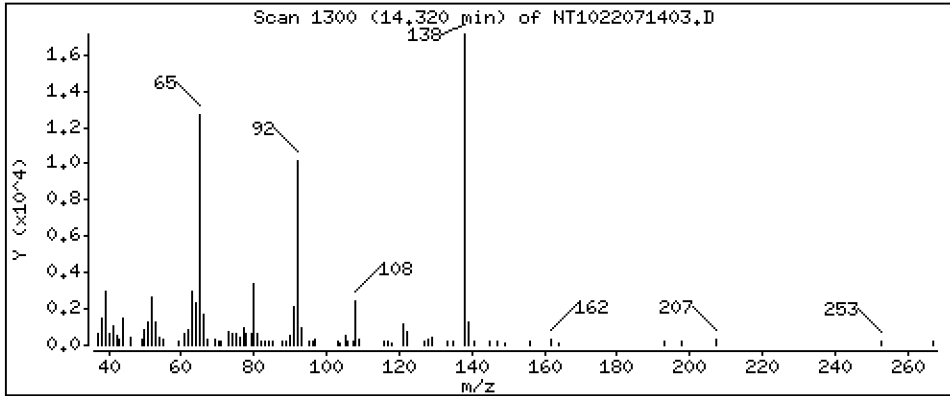
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,004 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

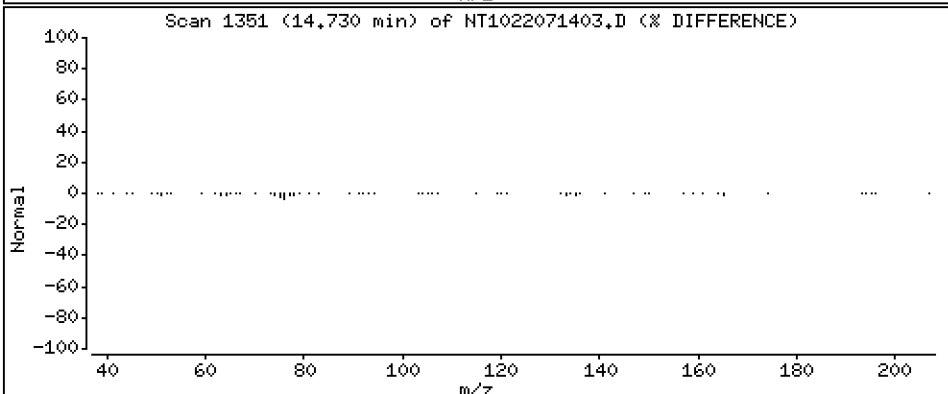
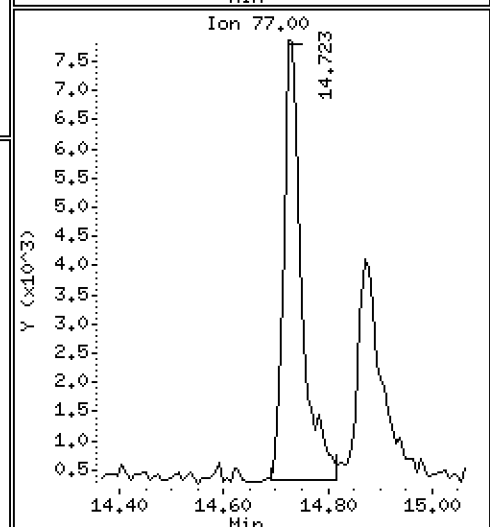
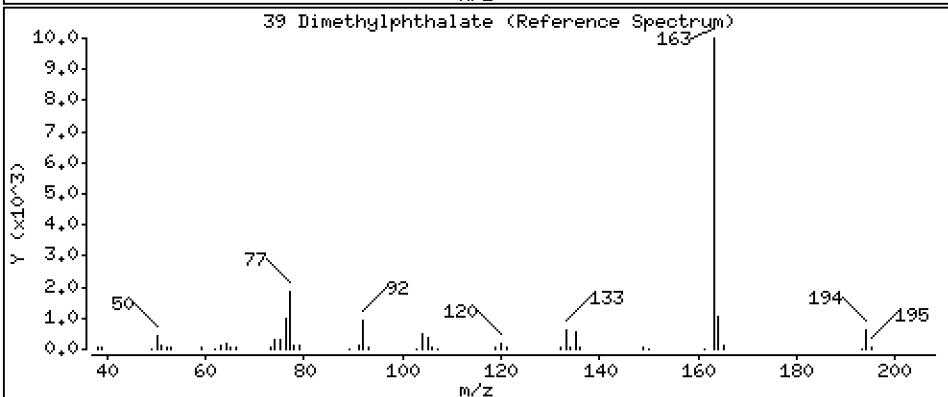
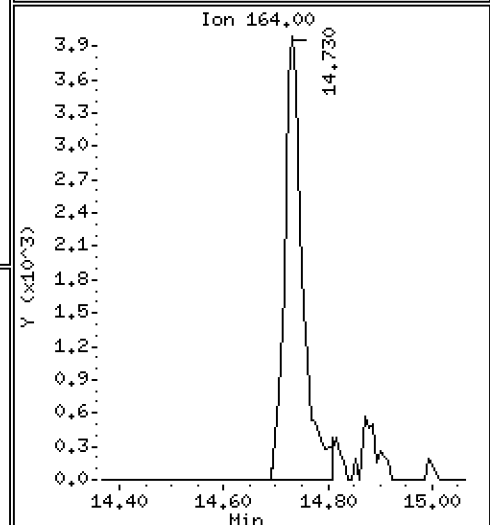
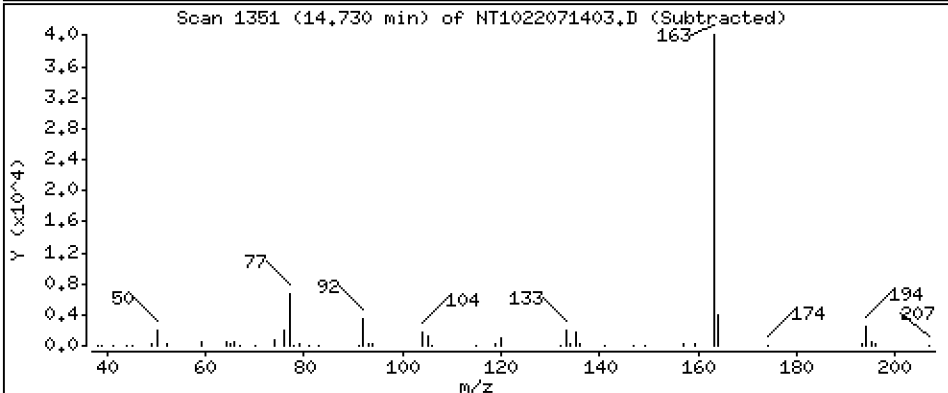
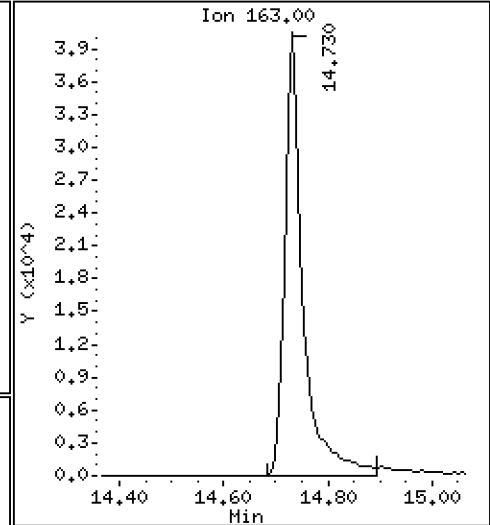
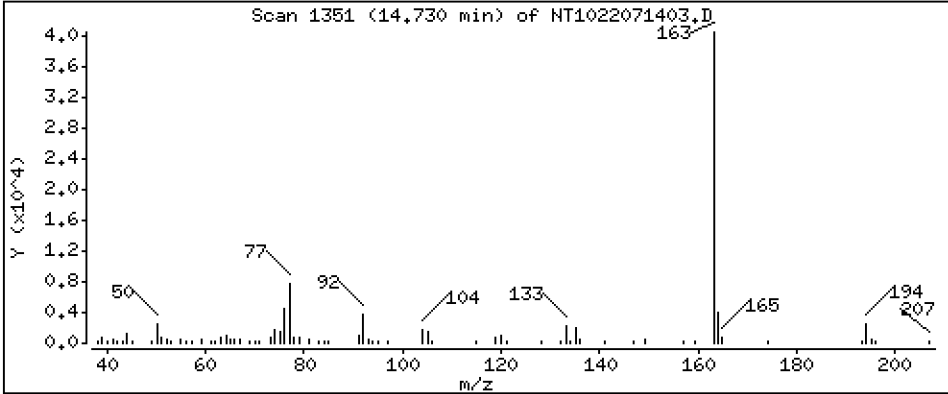
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,7539 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

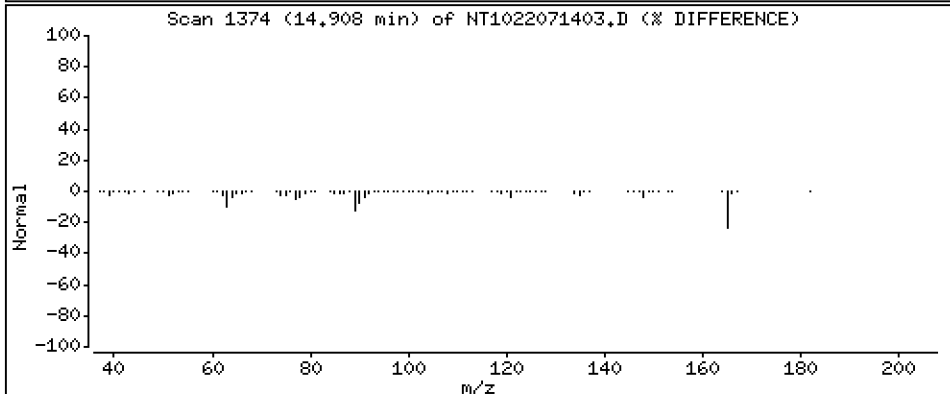
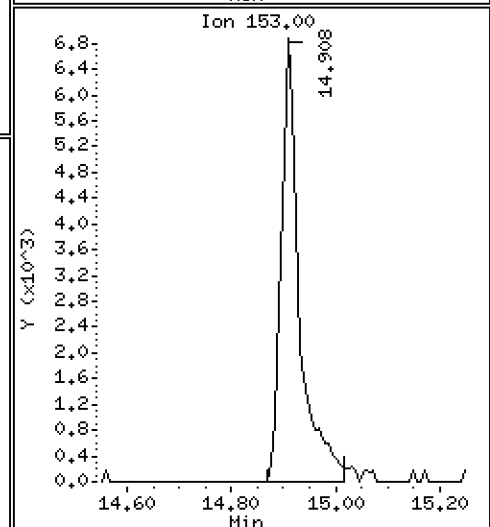
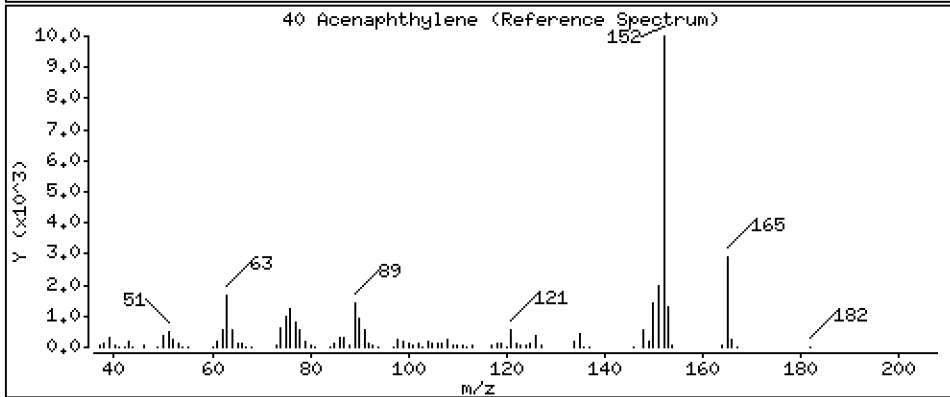
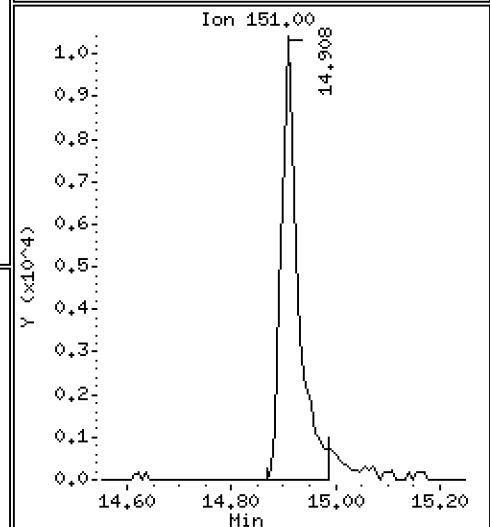
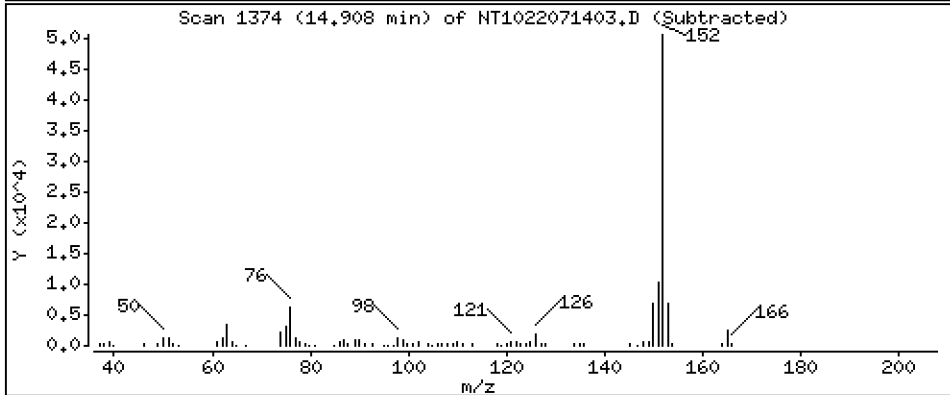
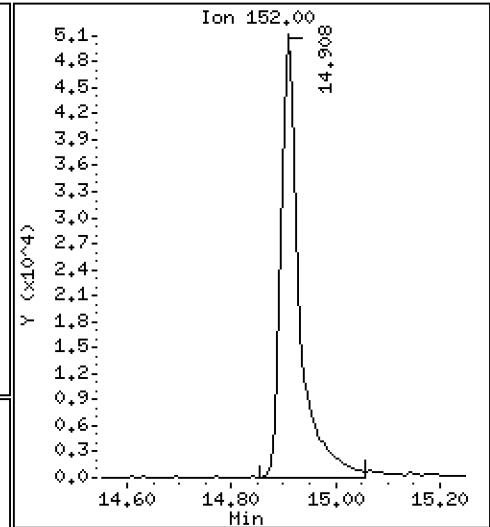
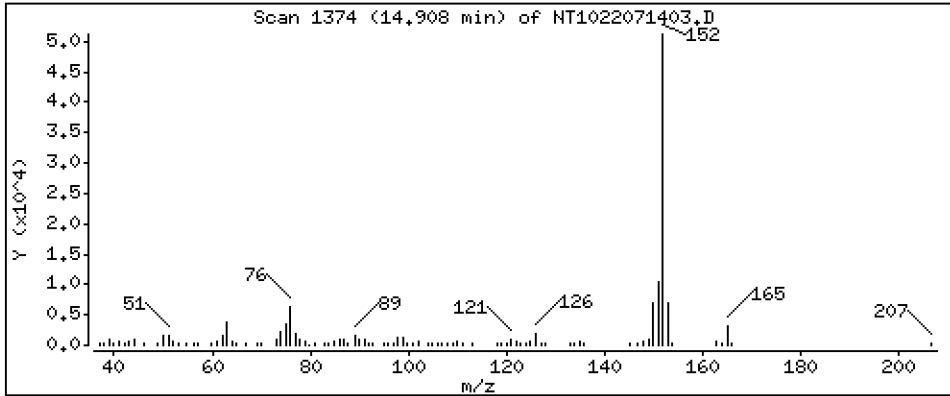
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,6125 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

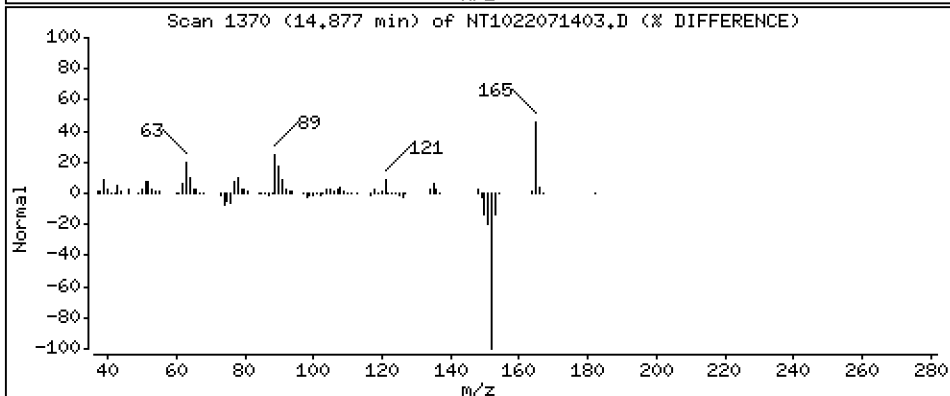
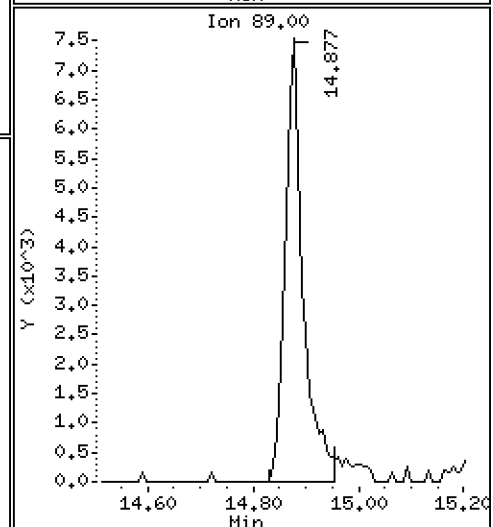
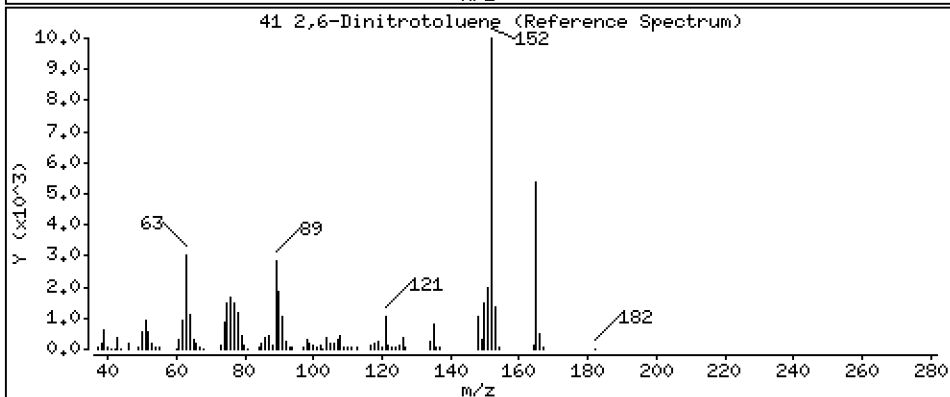
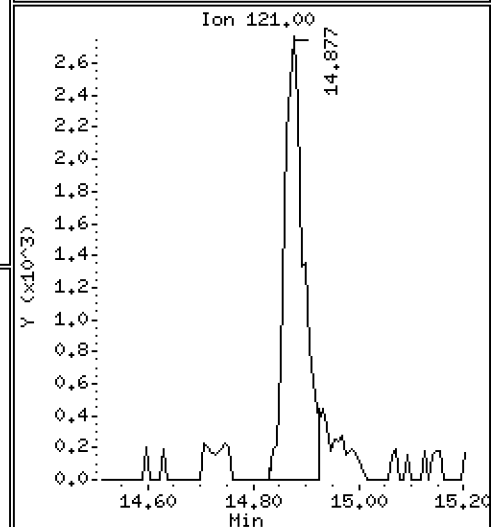
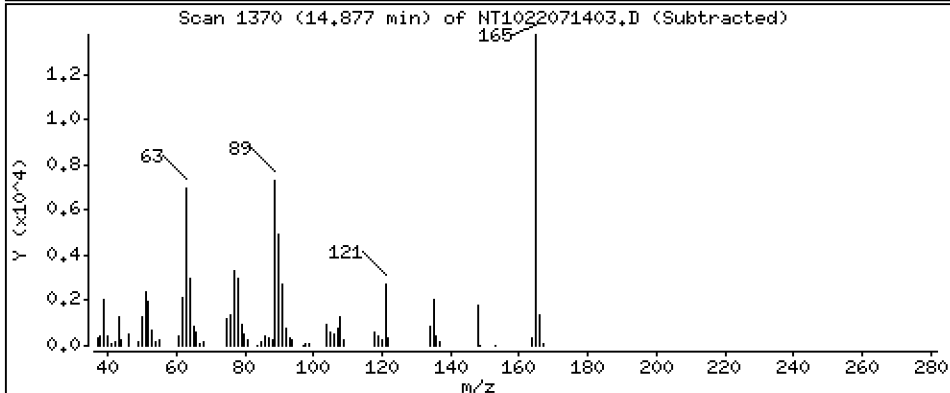
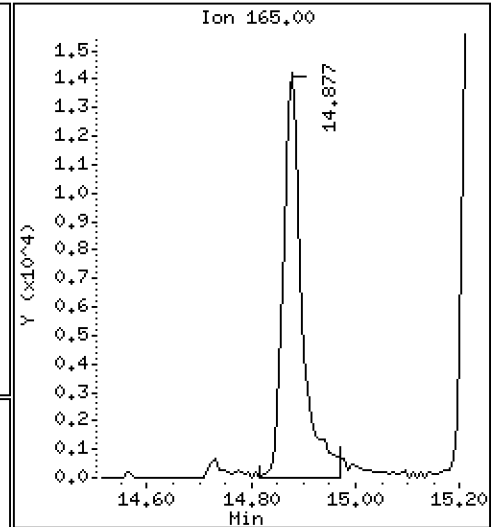
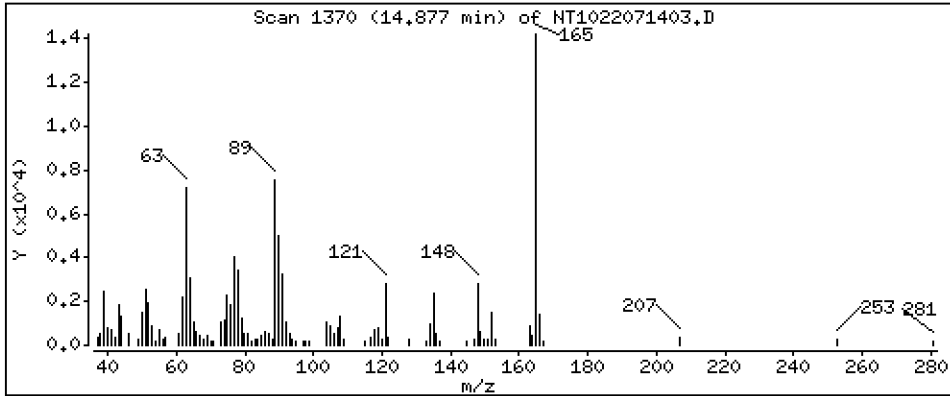
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 1,174 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

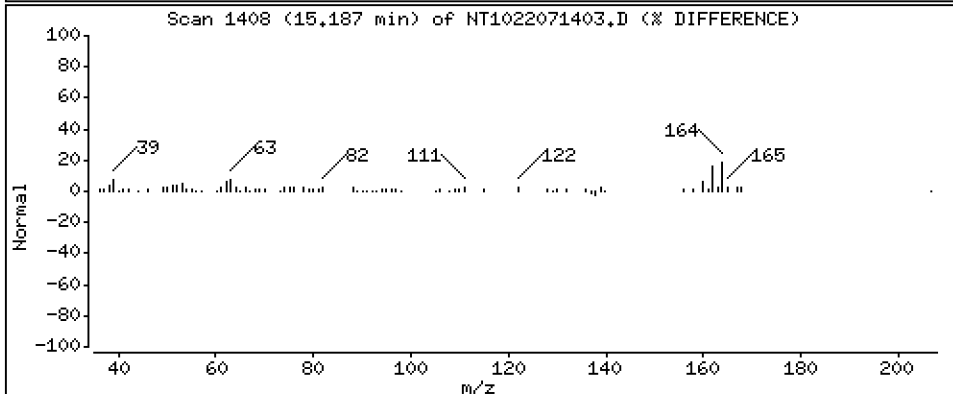
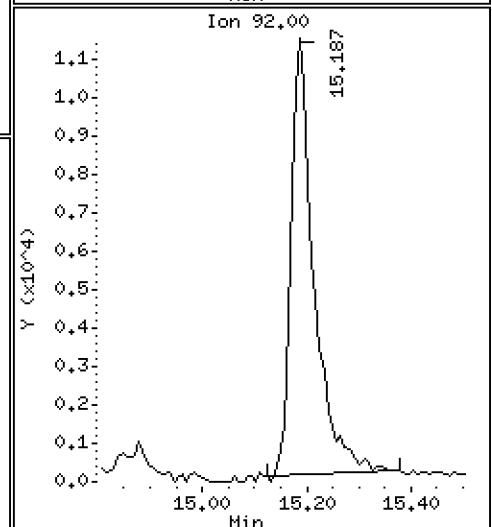
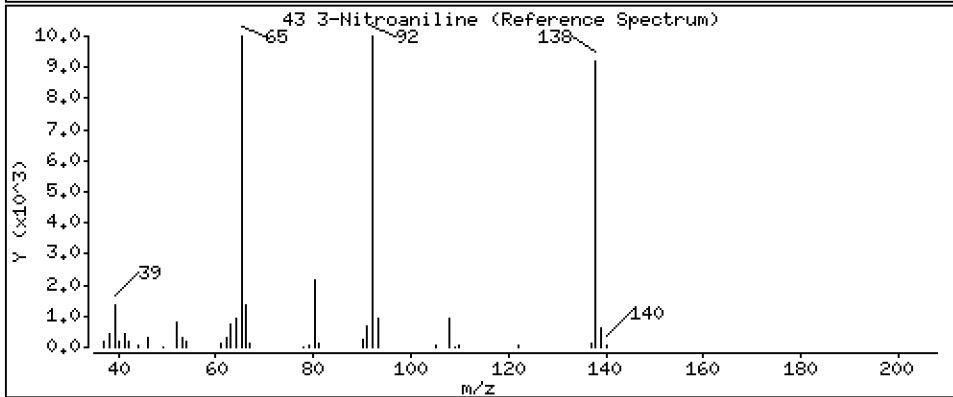
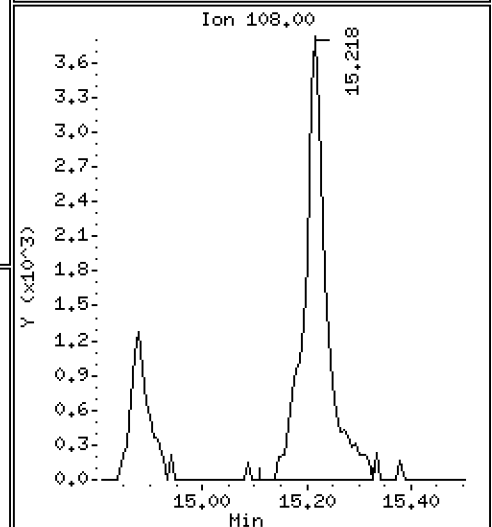
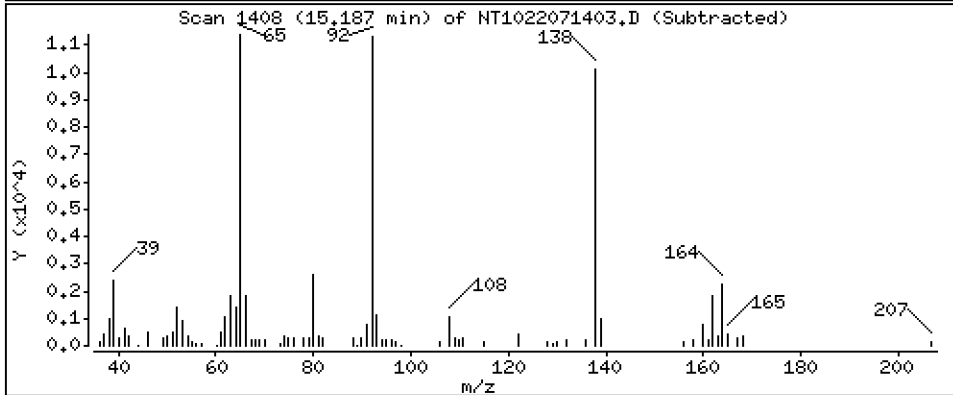
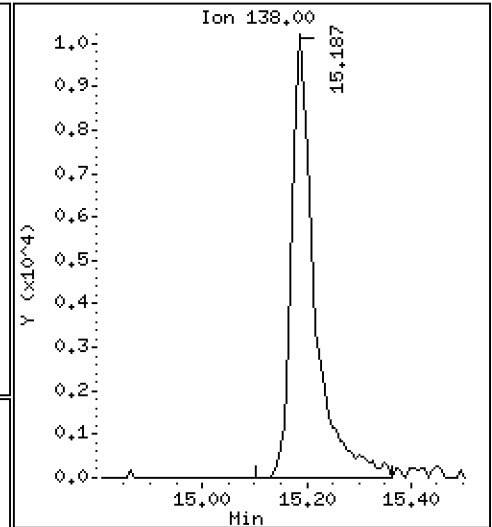
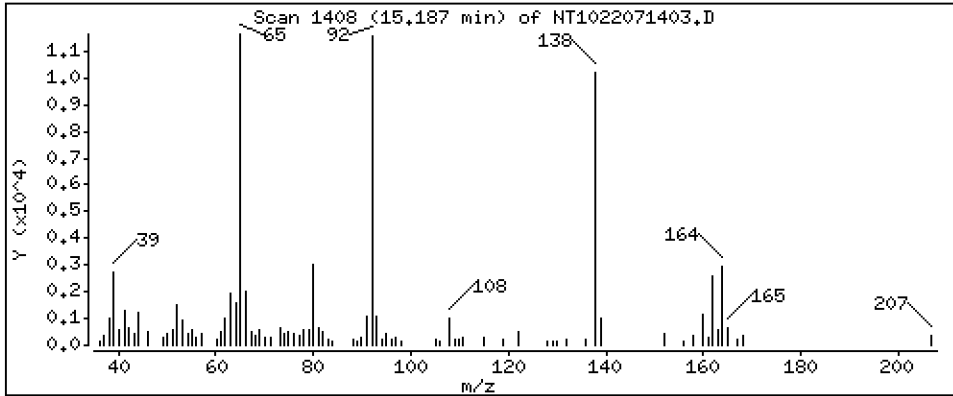
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,9027 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

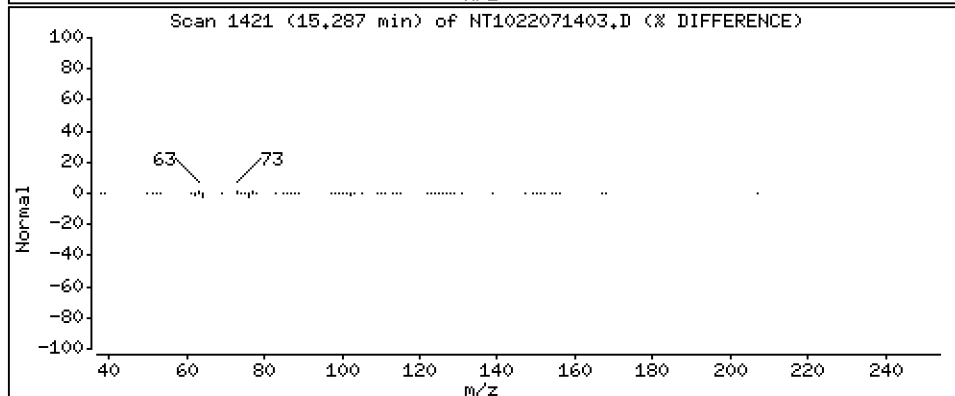
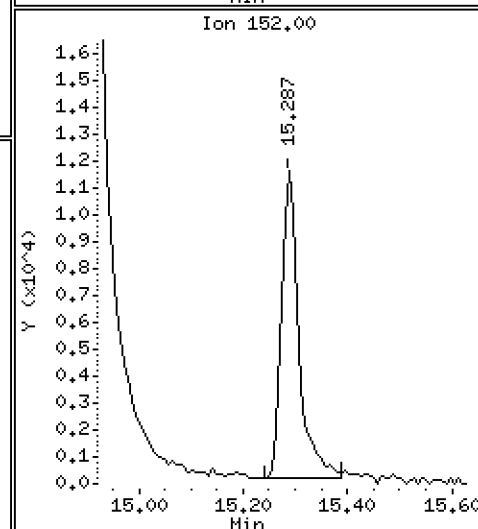
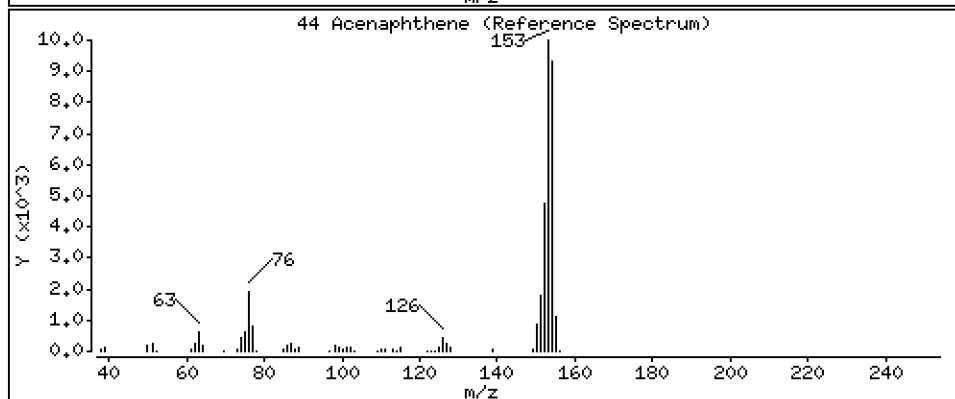
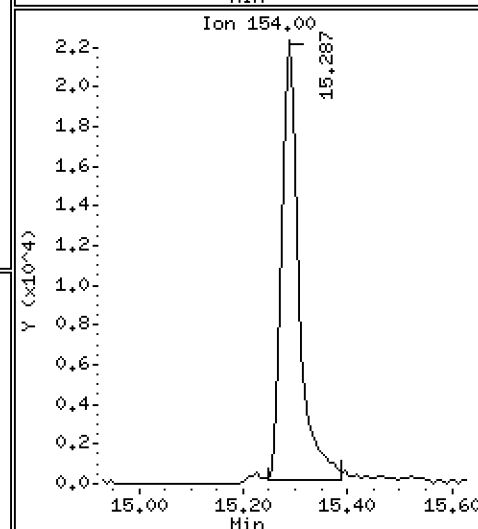
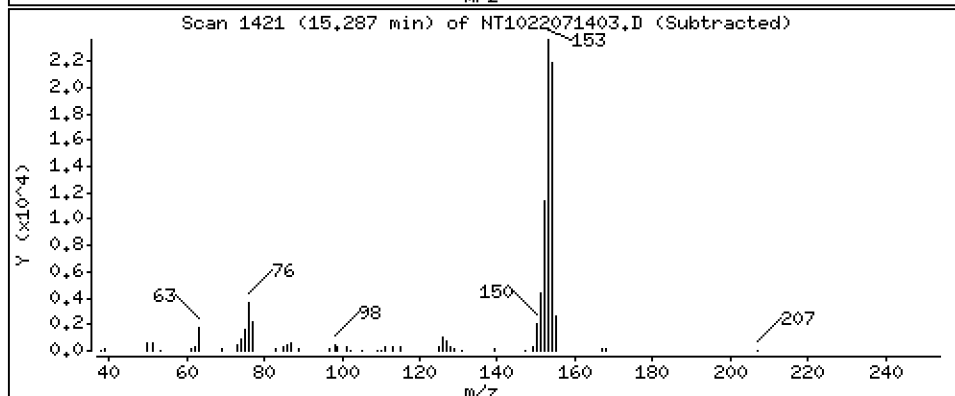
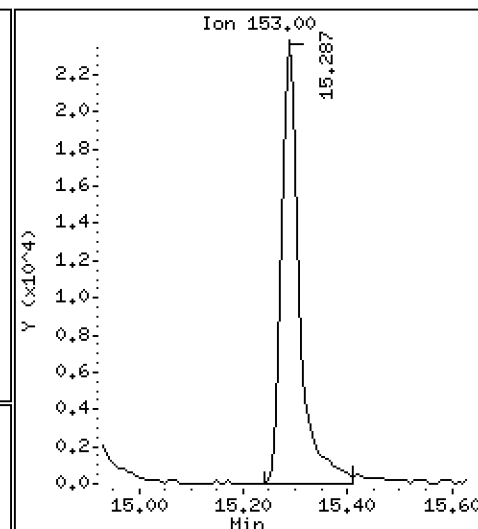
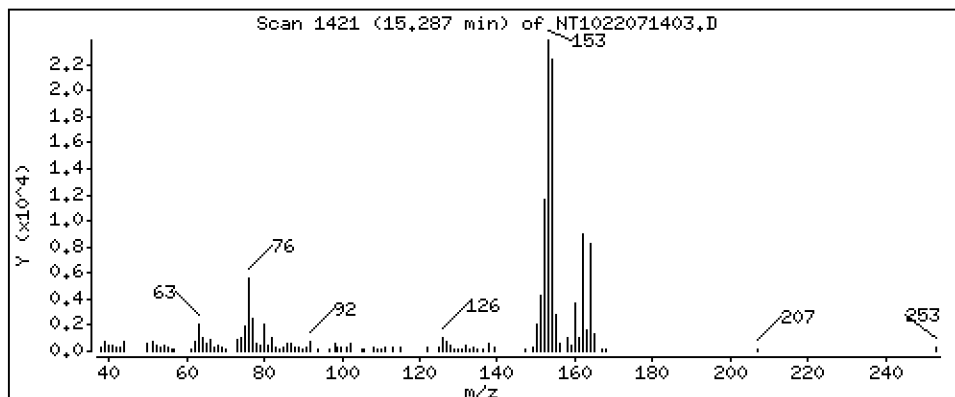
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5196 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

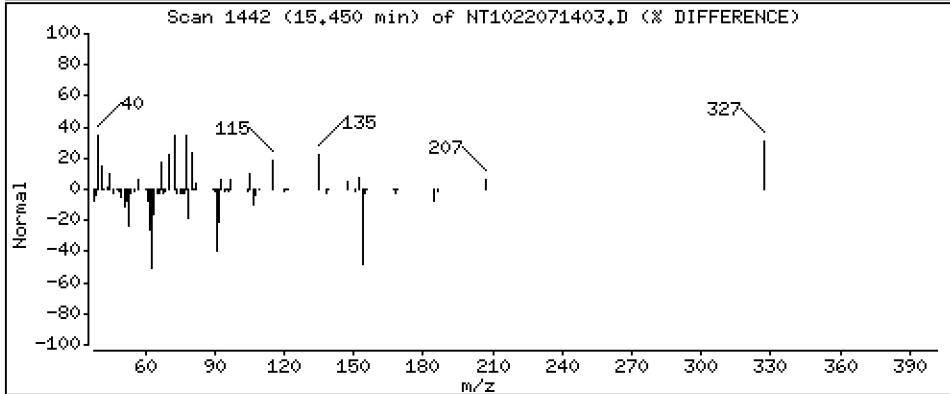
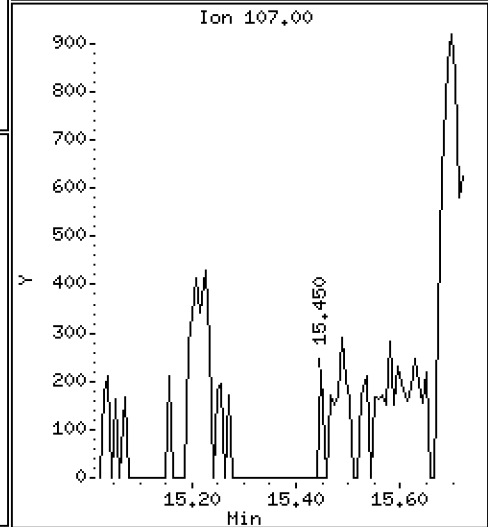
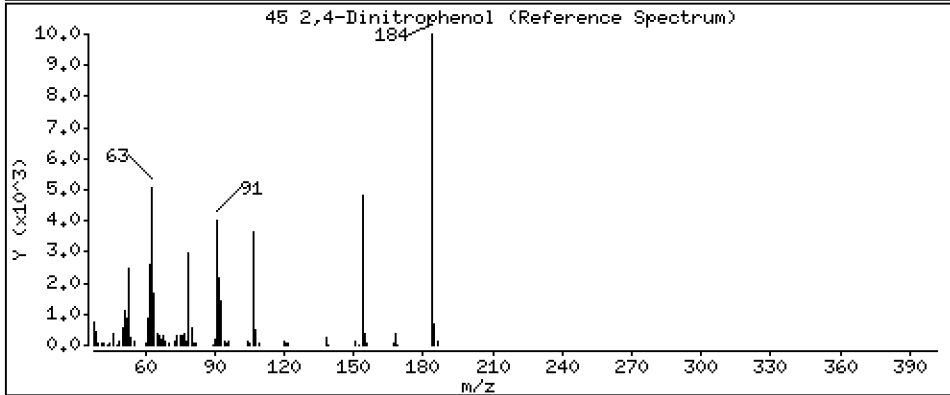
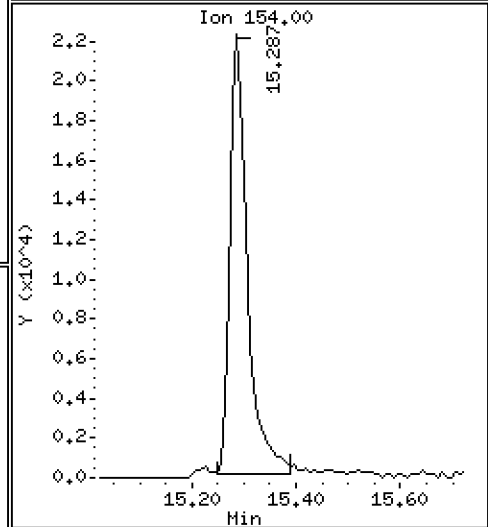
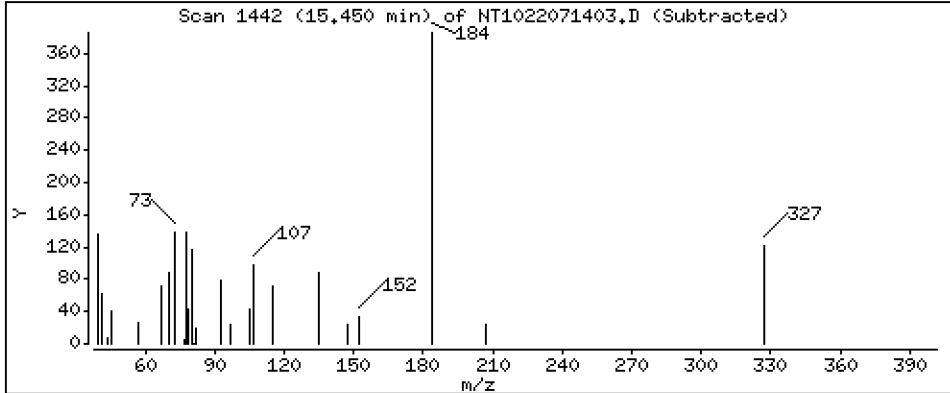
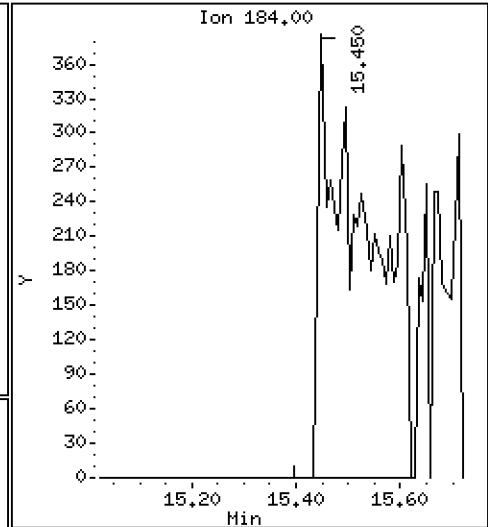
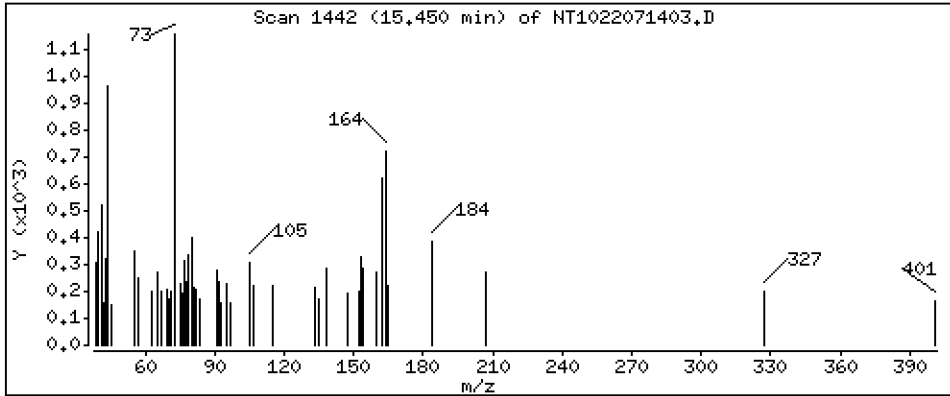
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

45 2,4-Dinitrophenol

Concentration: 0.1784 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

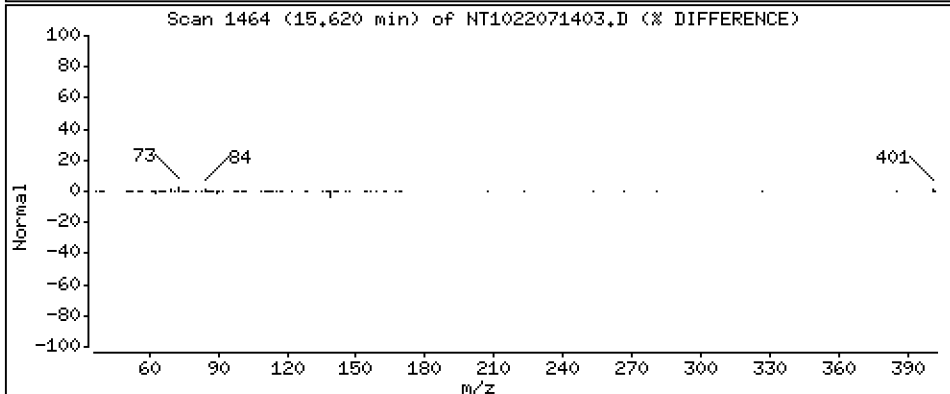
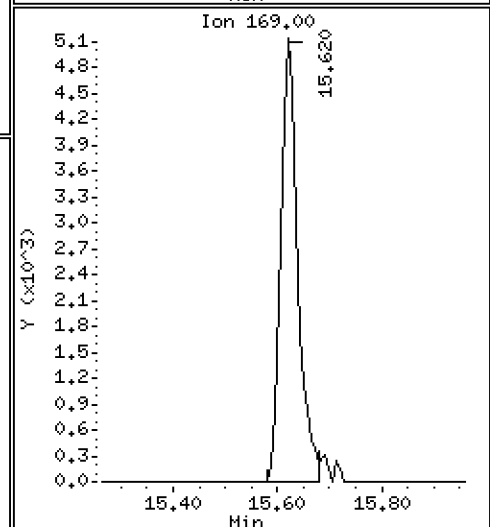
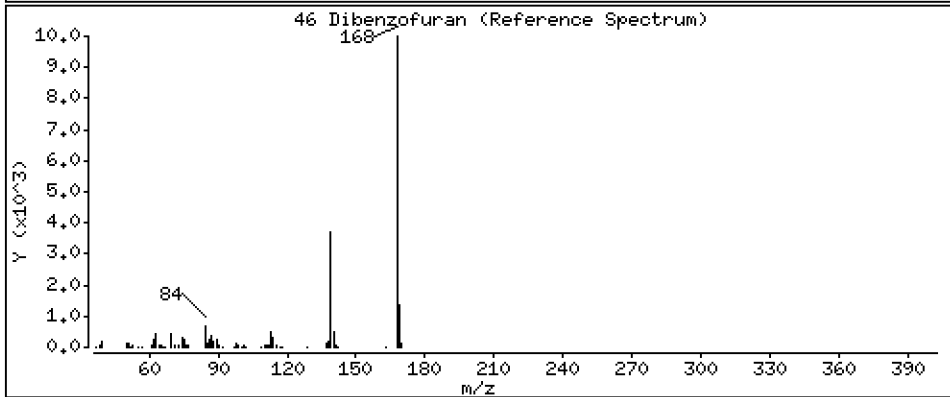
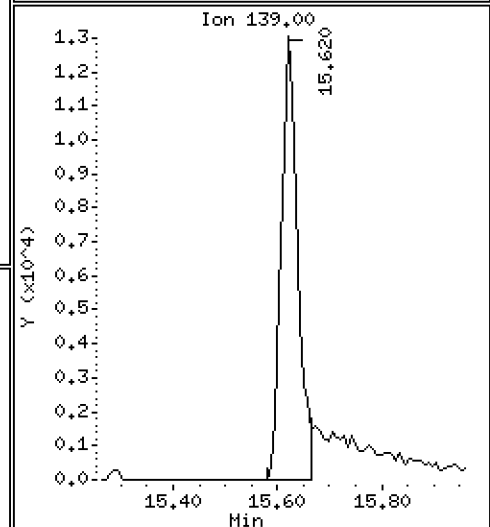
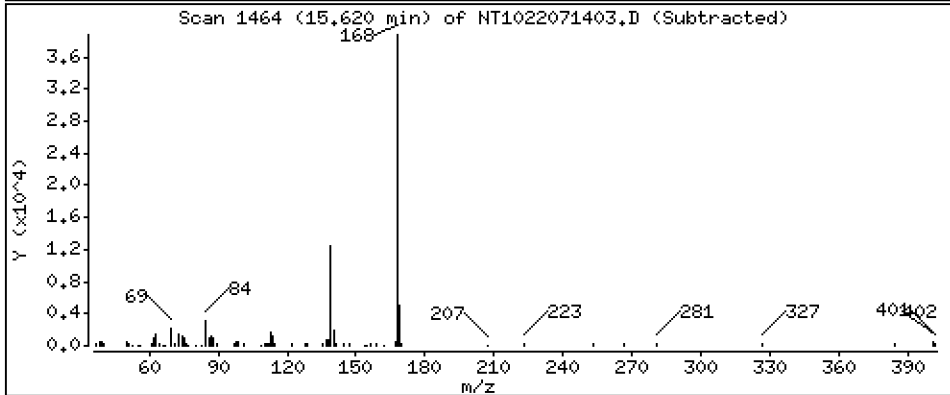
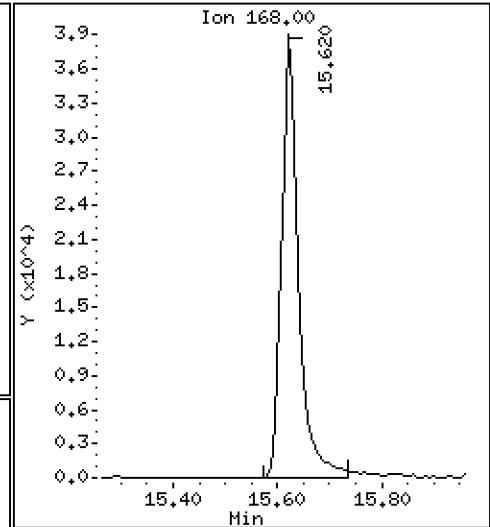
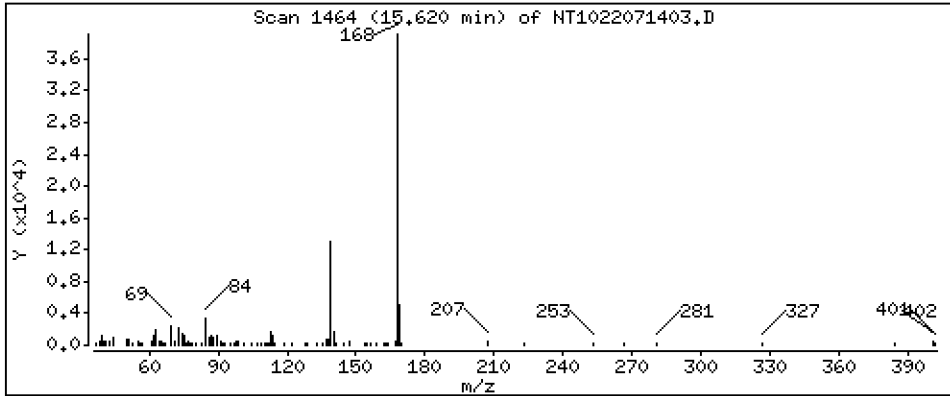
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5021 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

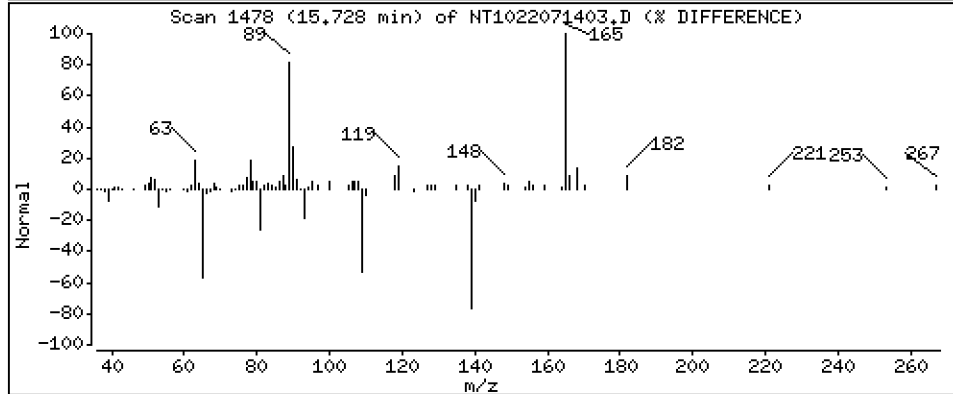
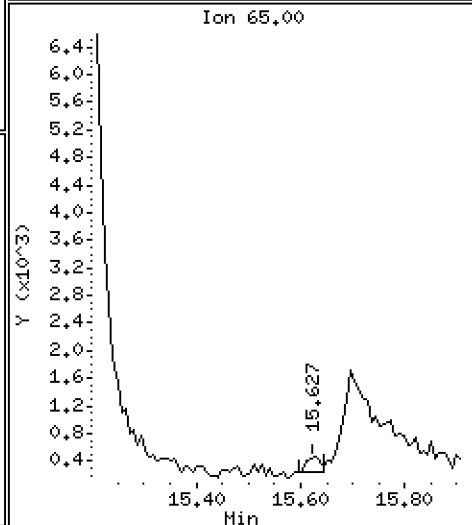
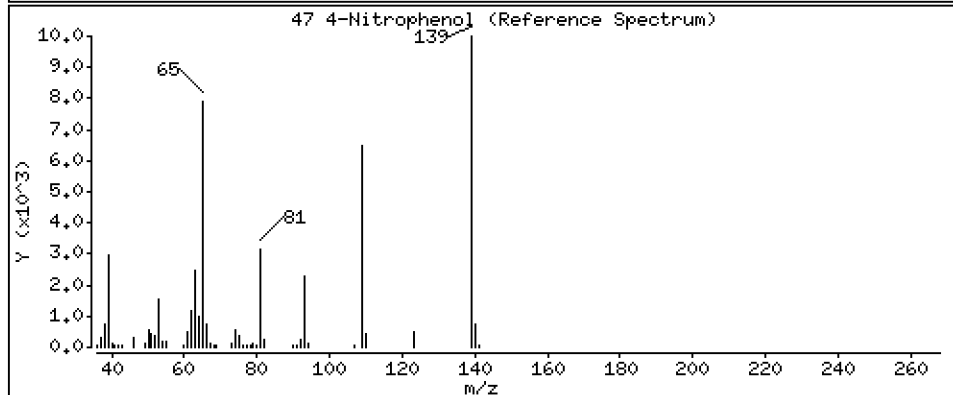
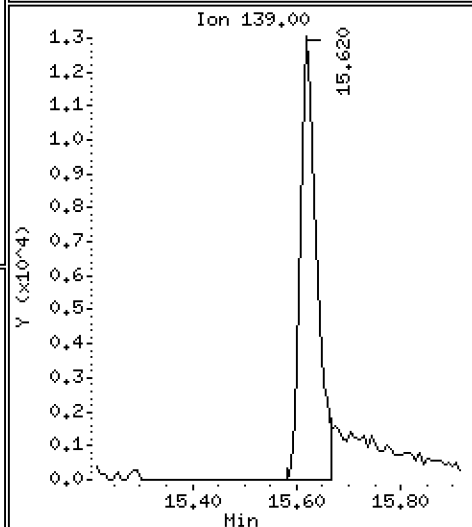
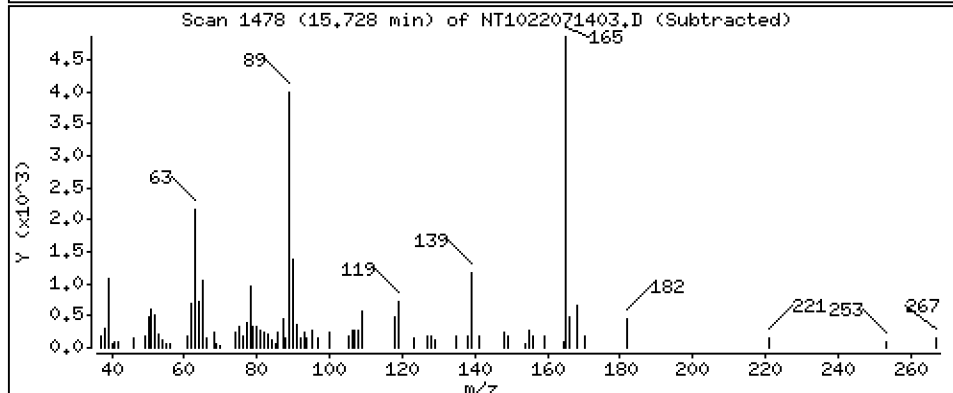
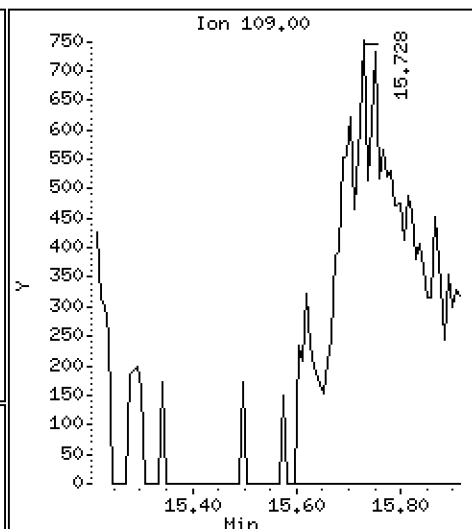
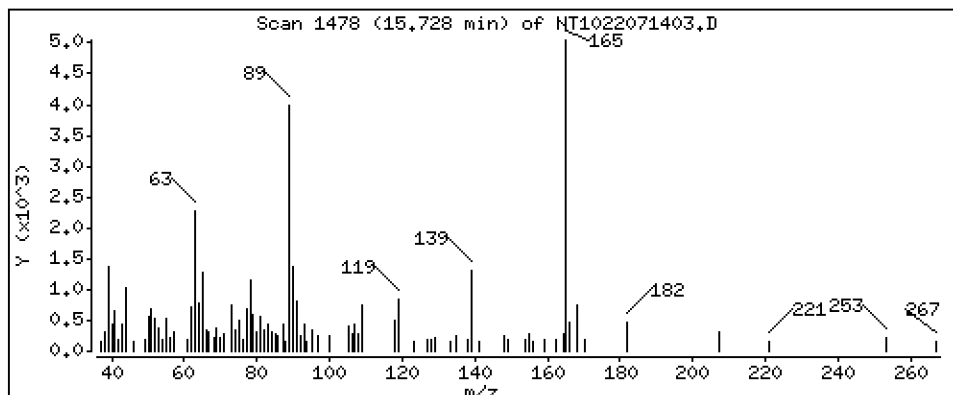
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.9245 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

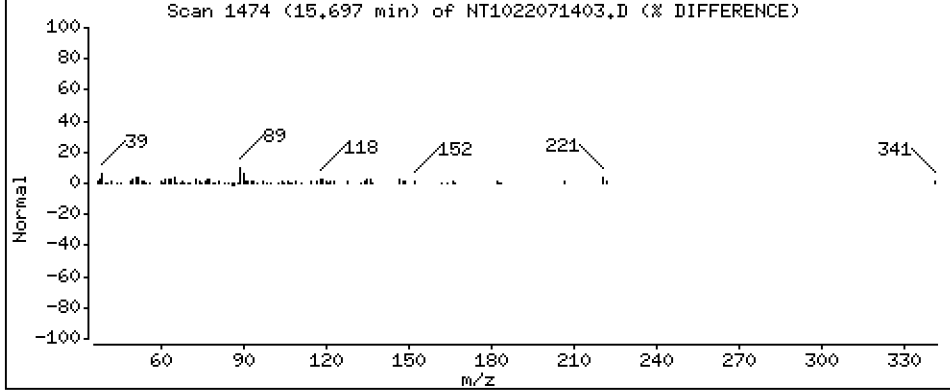
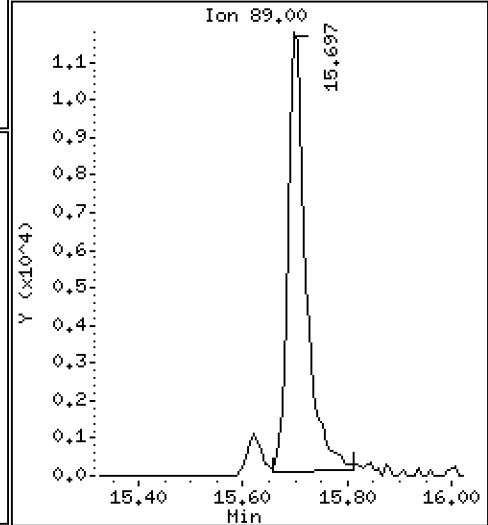
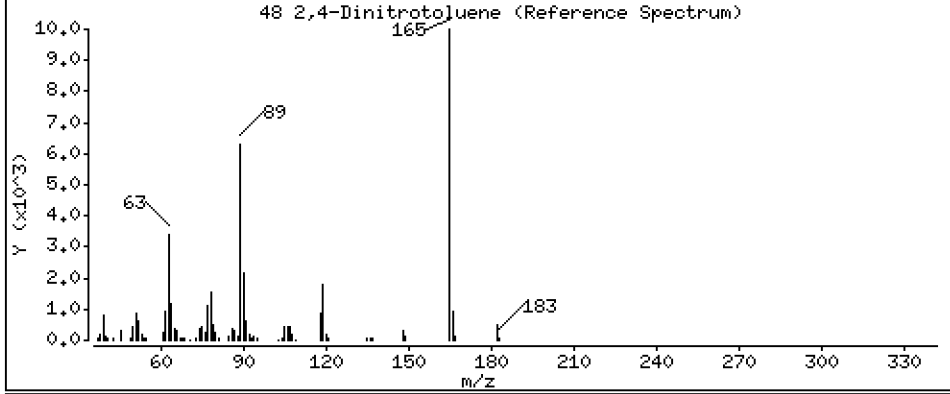
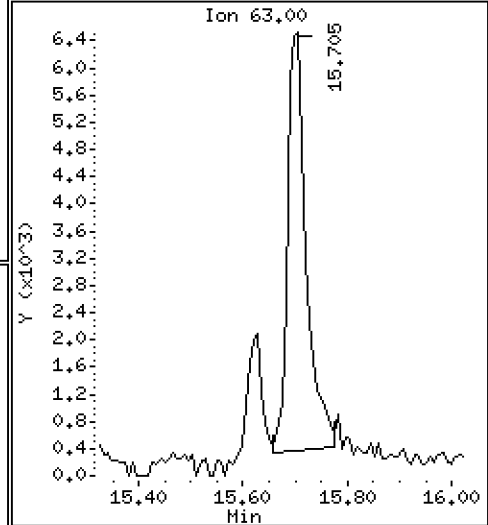
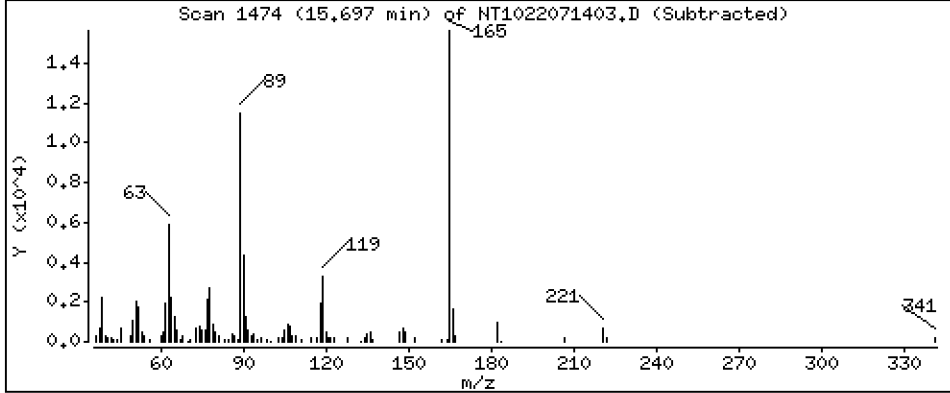
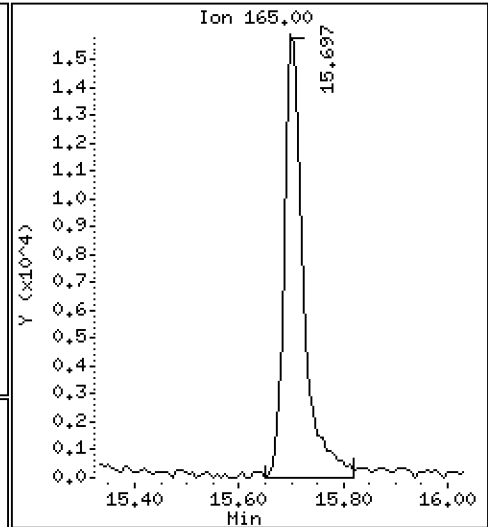
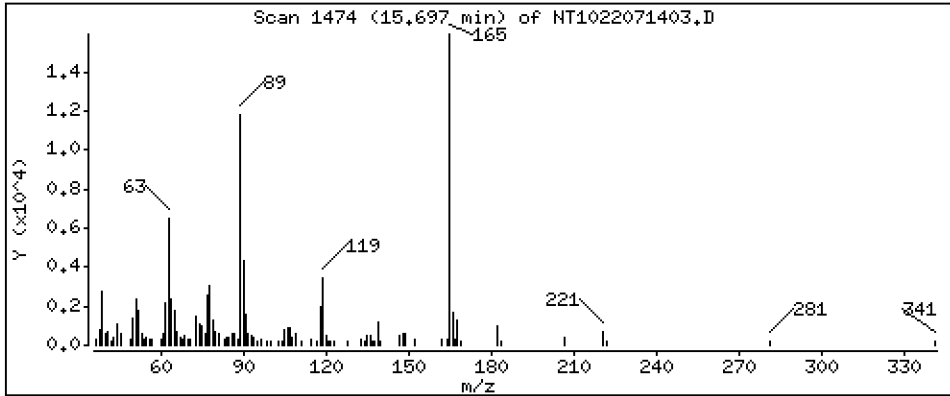
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 1,028 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

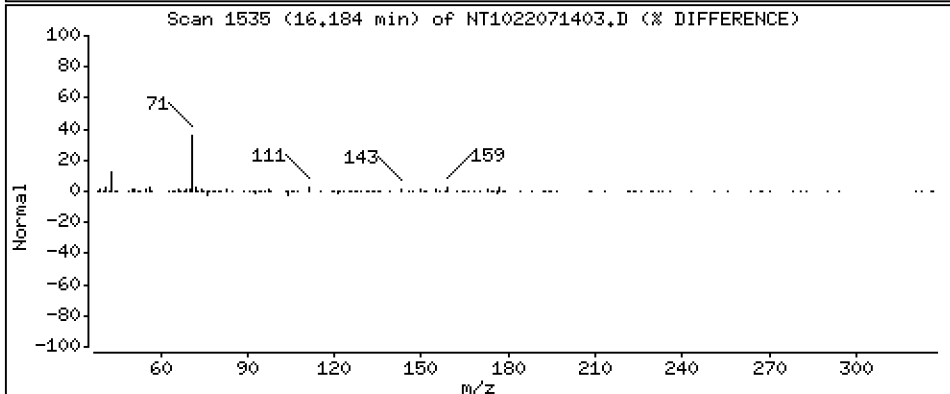
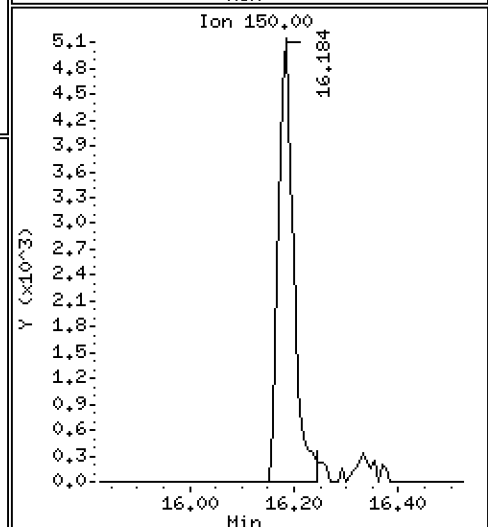
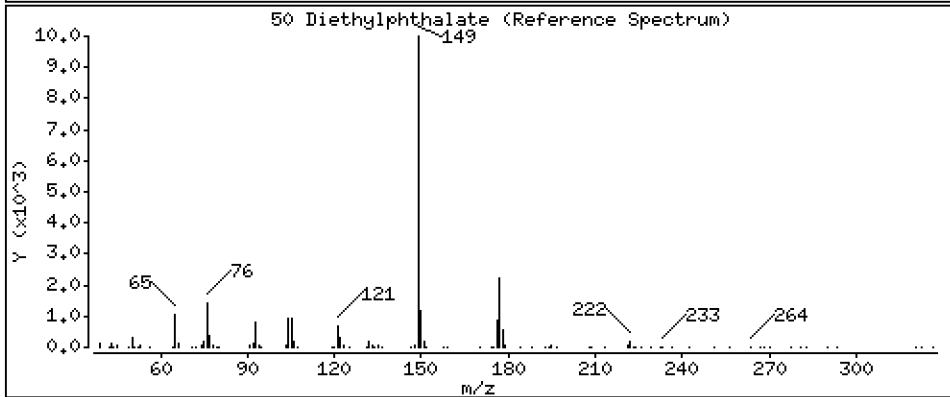
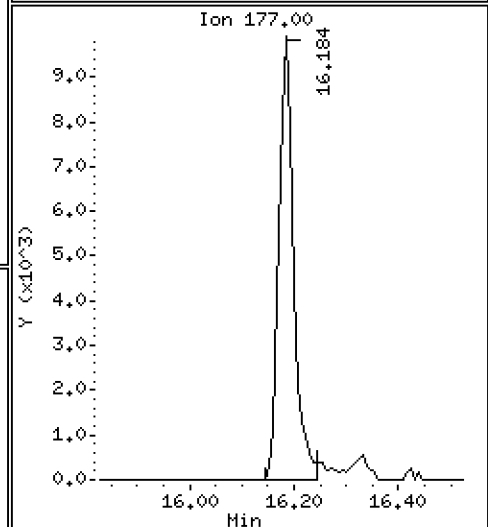
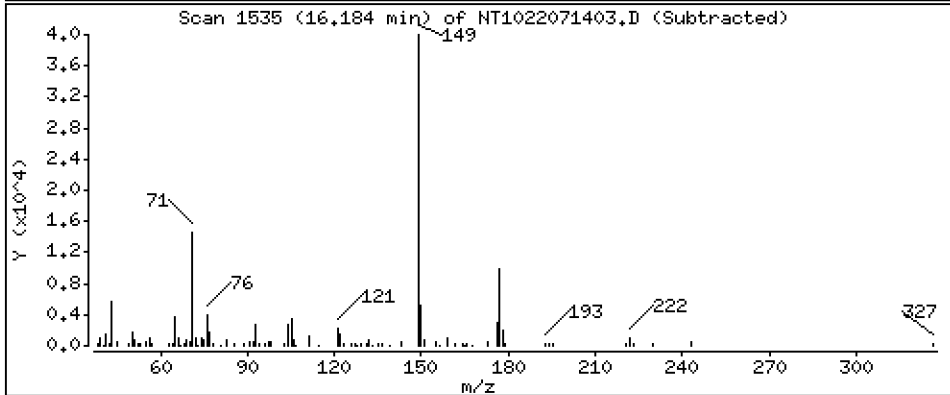
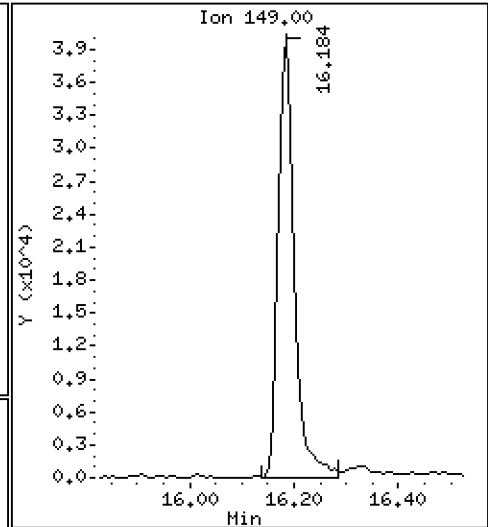
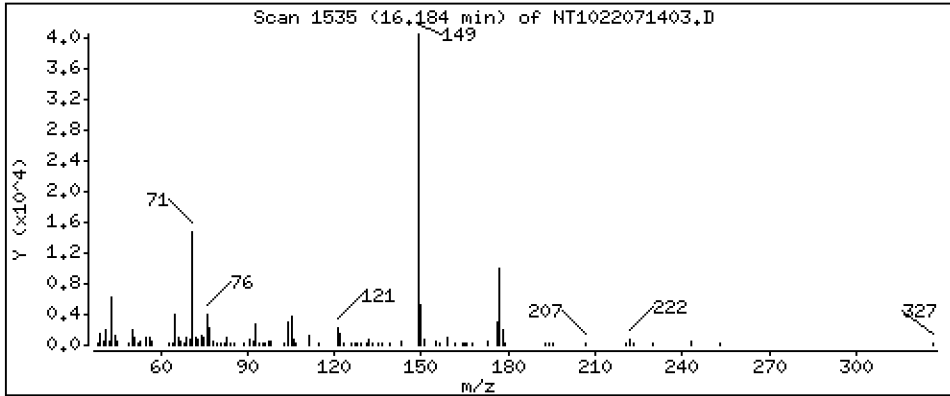
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,7548 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

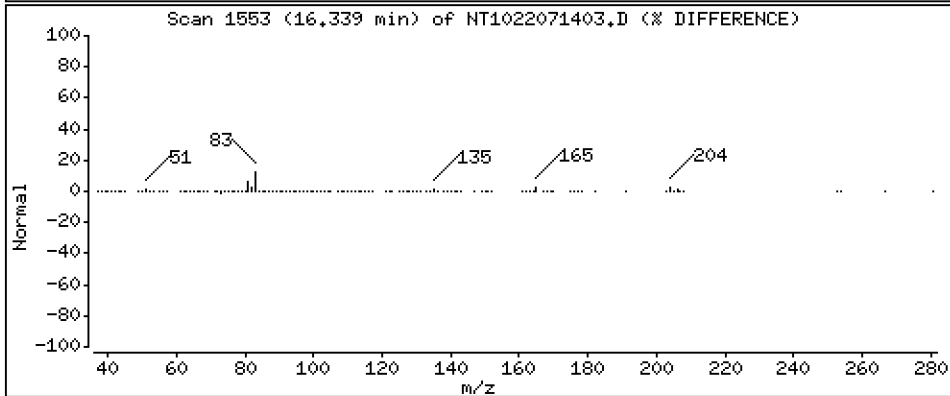
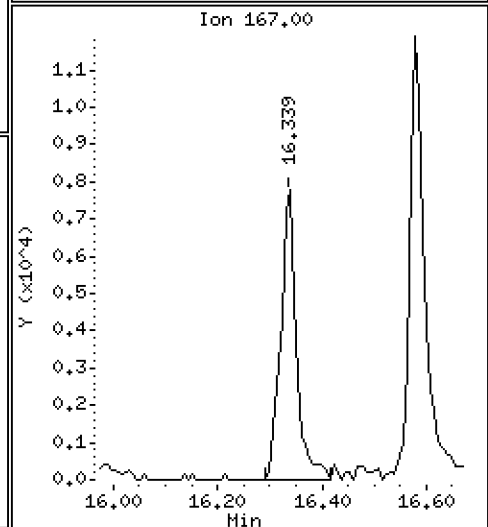
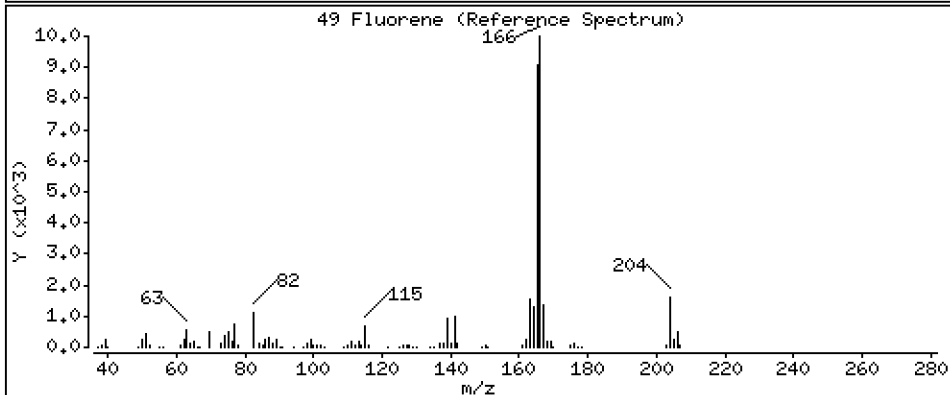
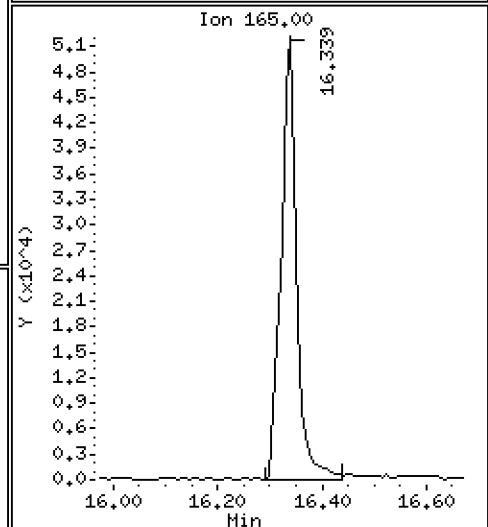
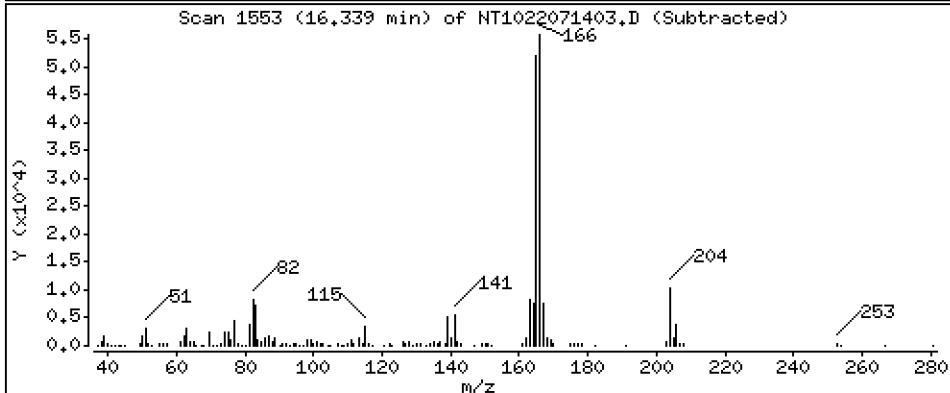
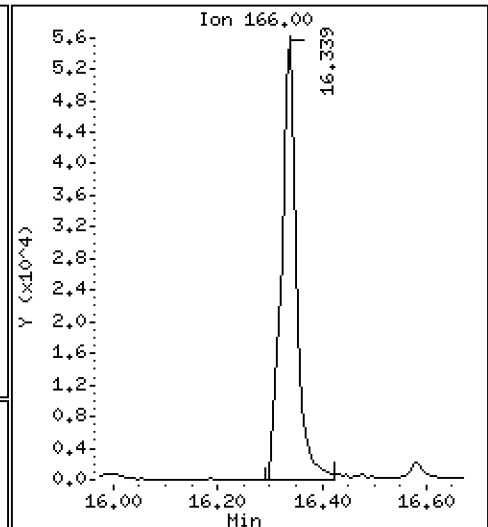
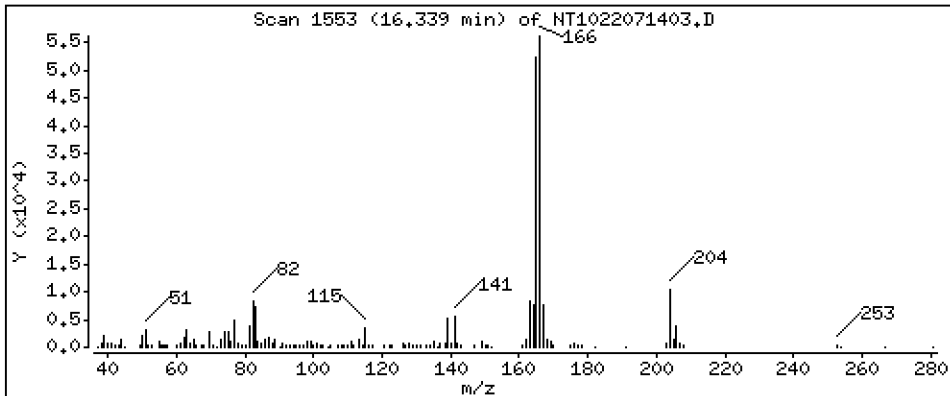
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5564 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

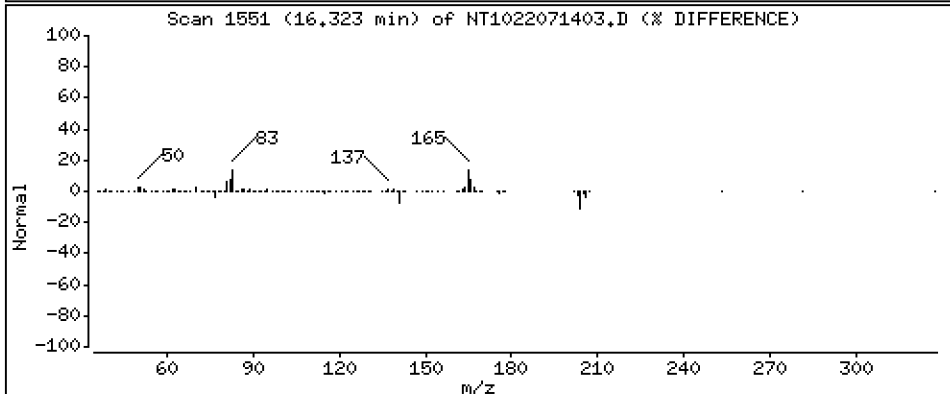
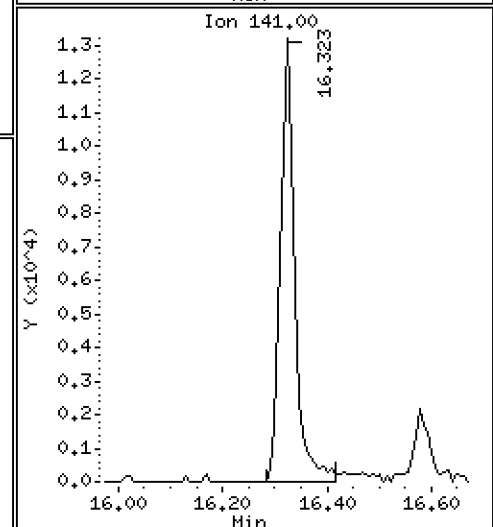
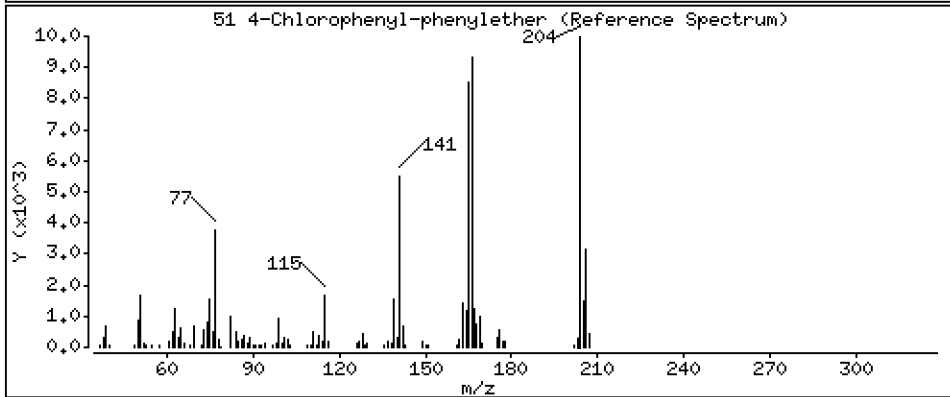
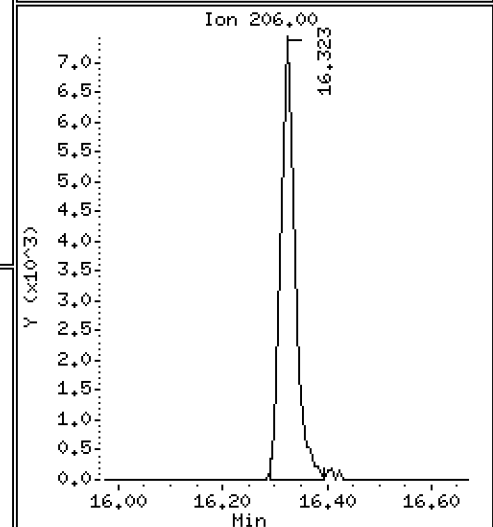
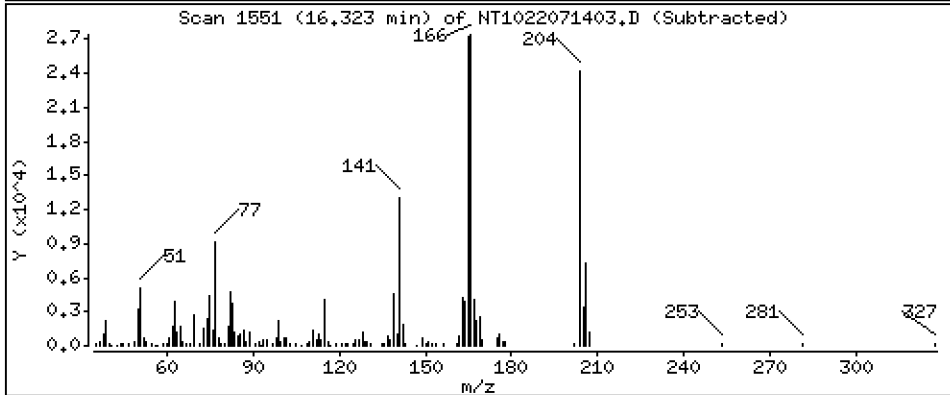
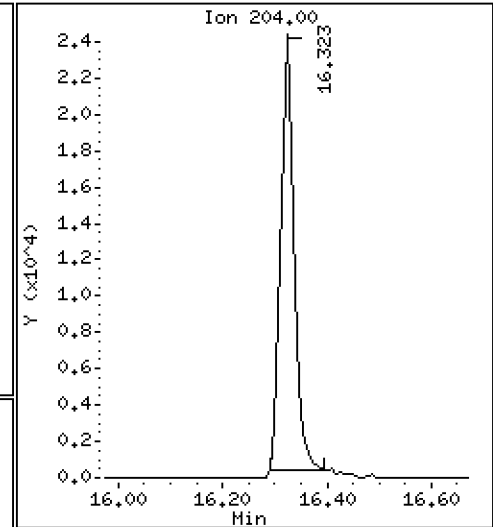
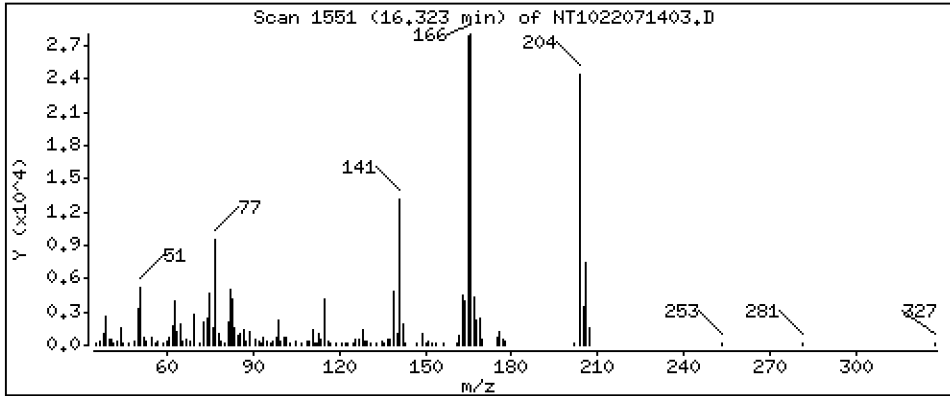
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,3834 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

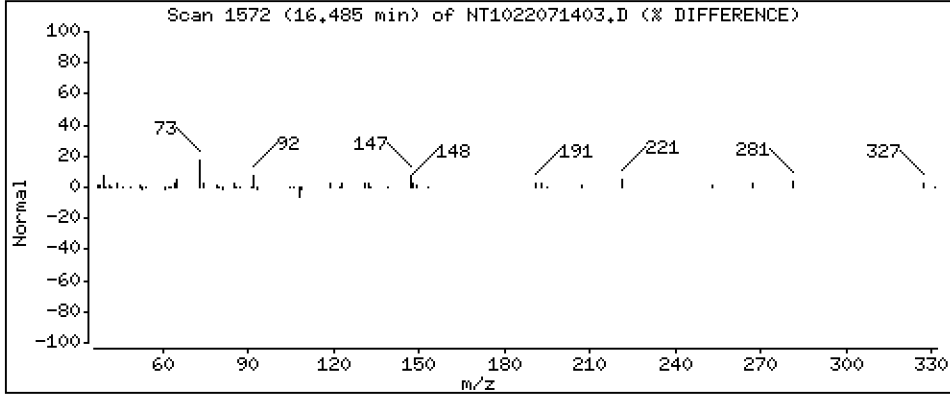
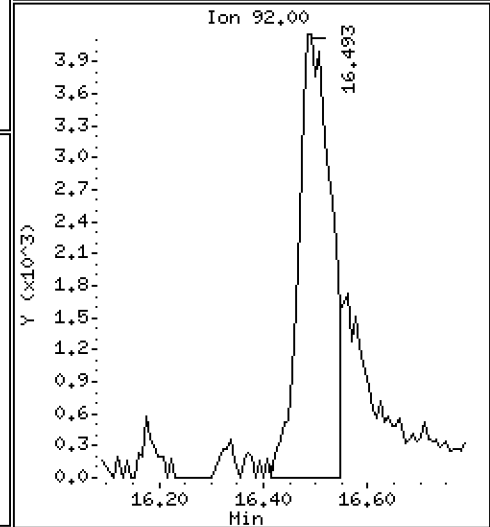
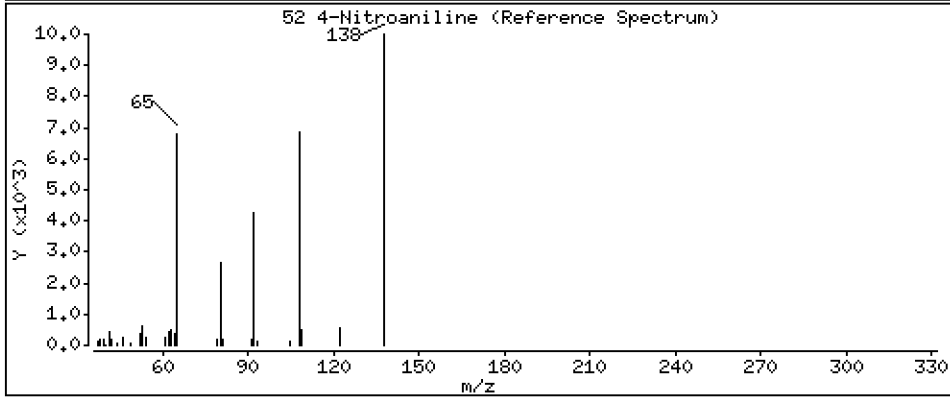
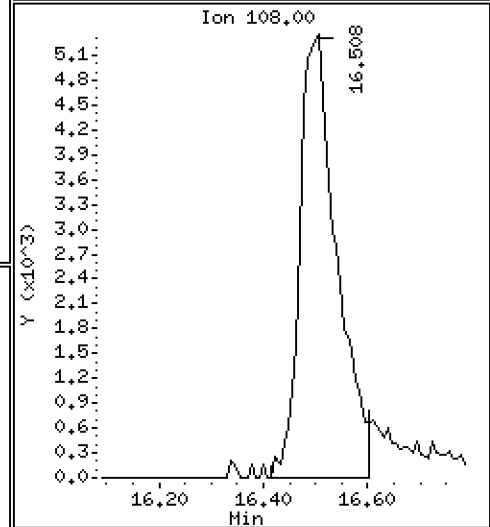
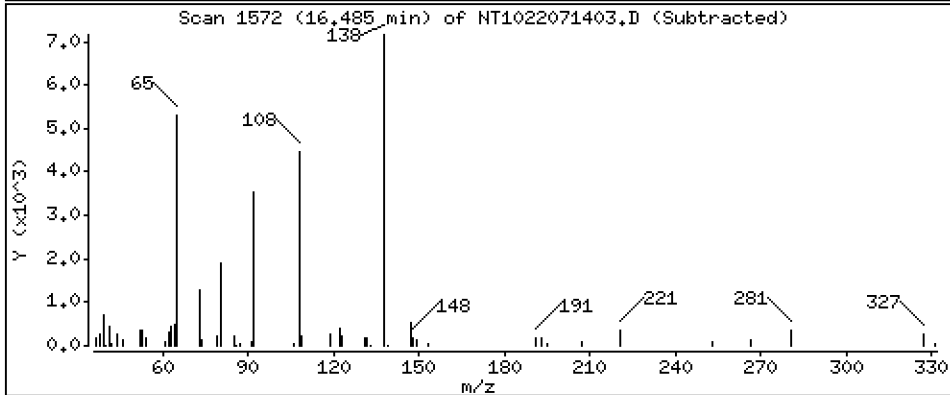
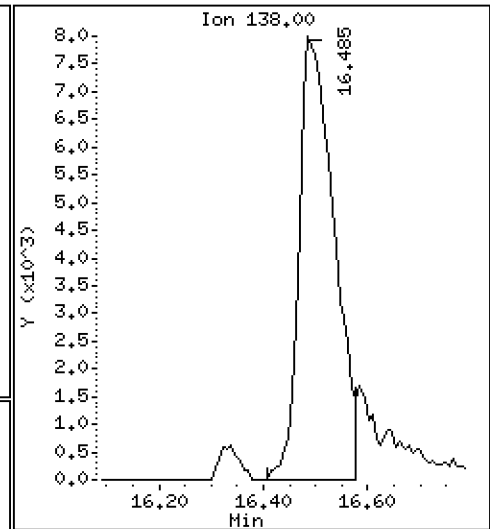
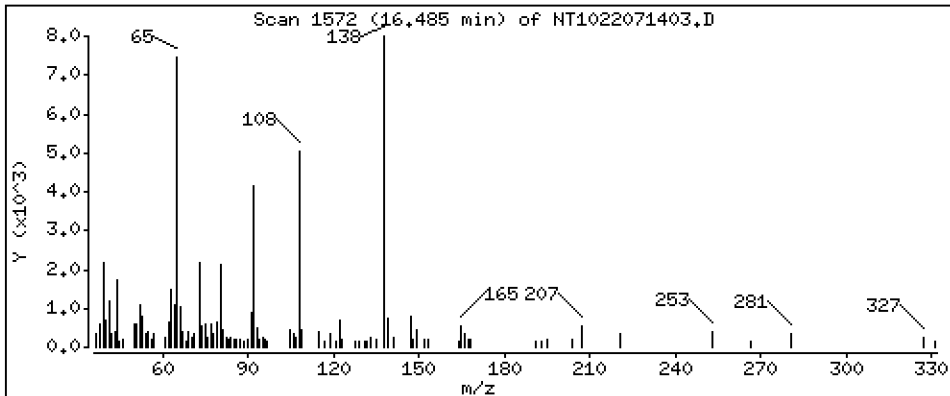
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

52 4-Nitroaniline

Concentration: 1.048 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

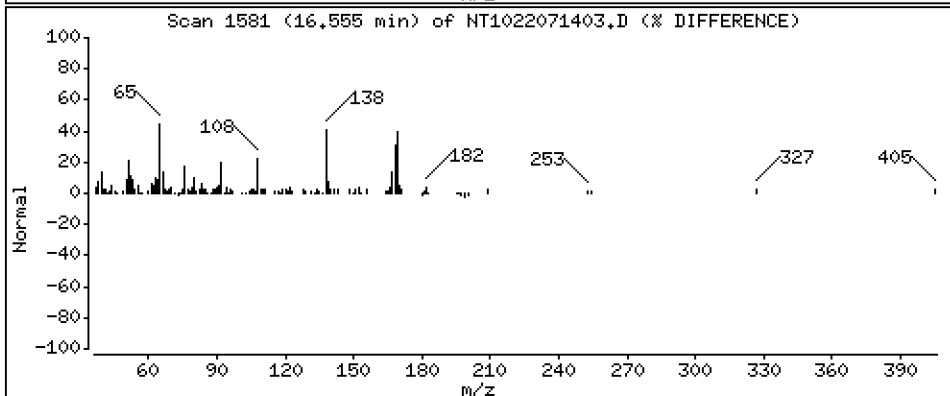
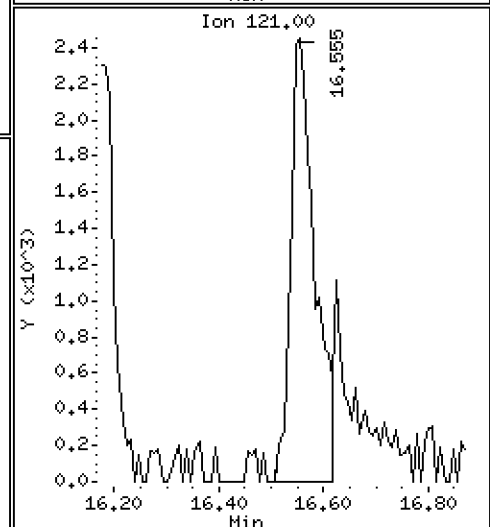
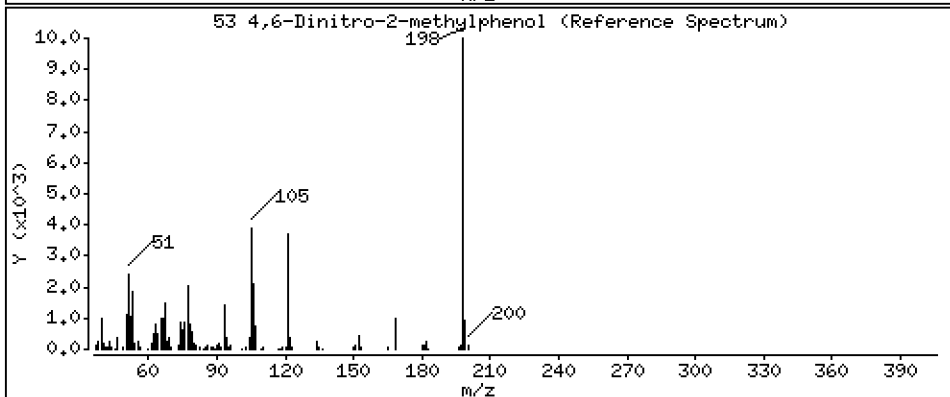
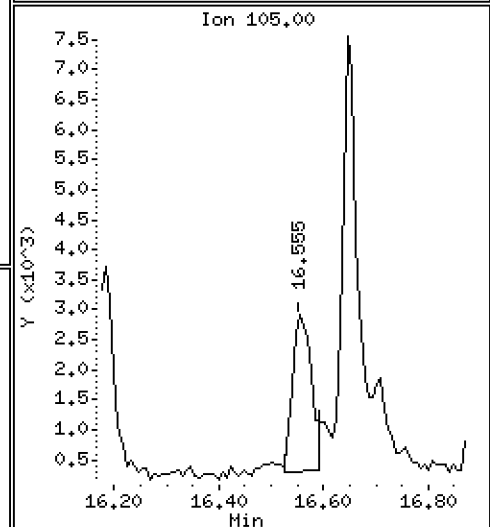
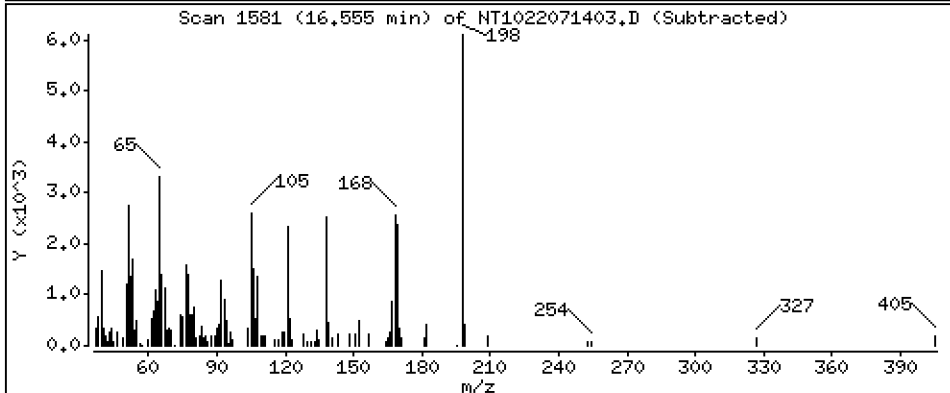
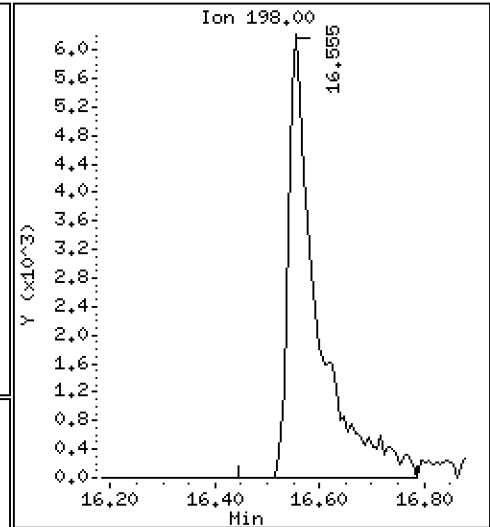
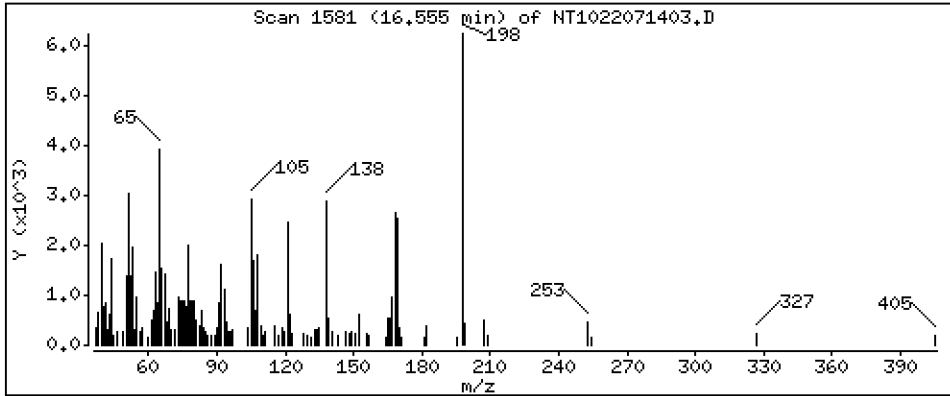
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.9795 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

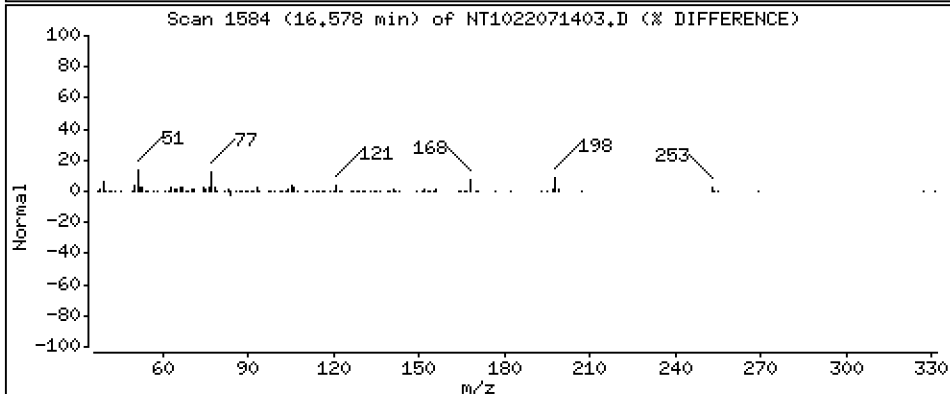
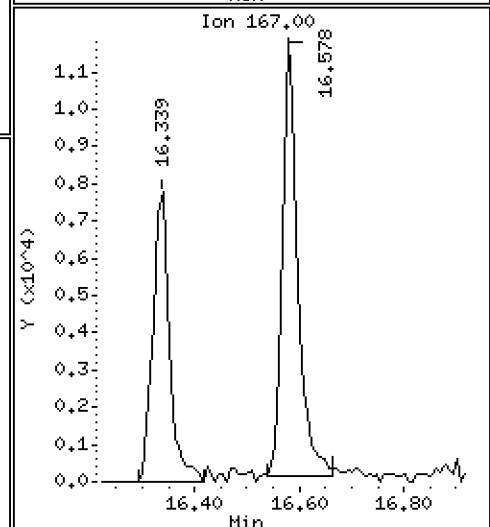
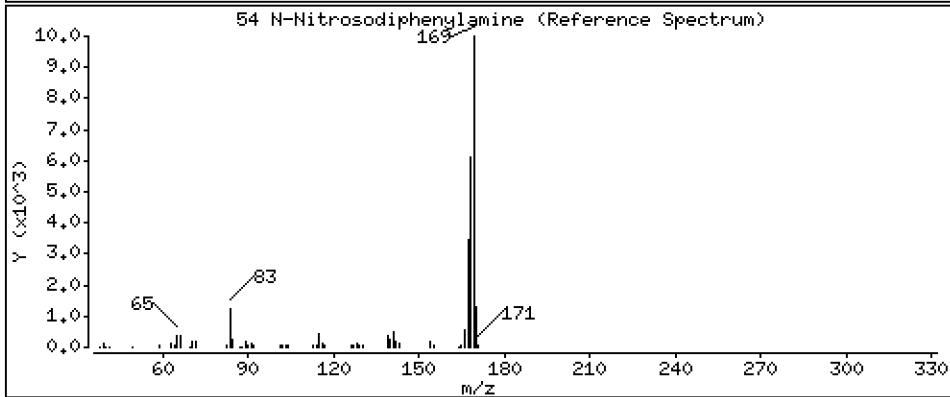
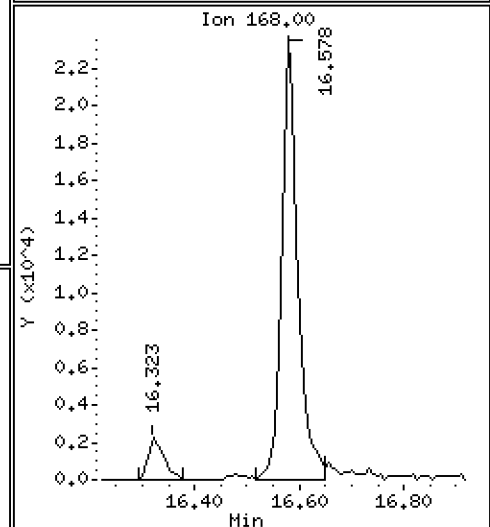
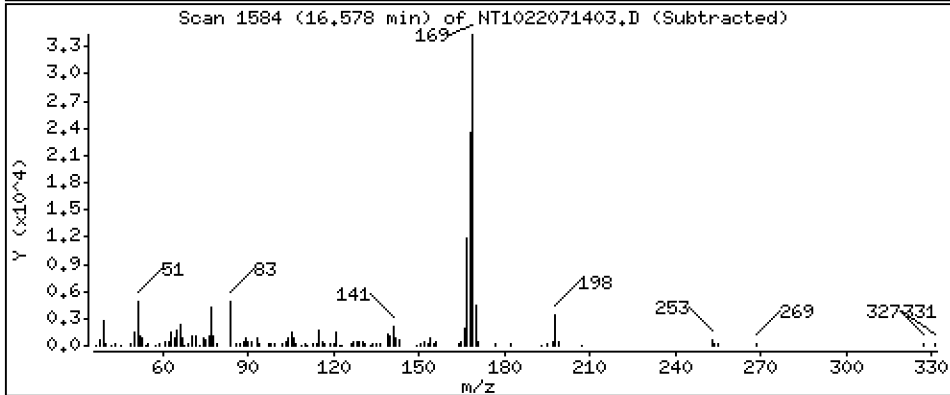
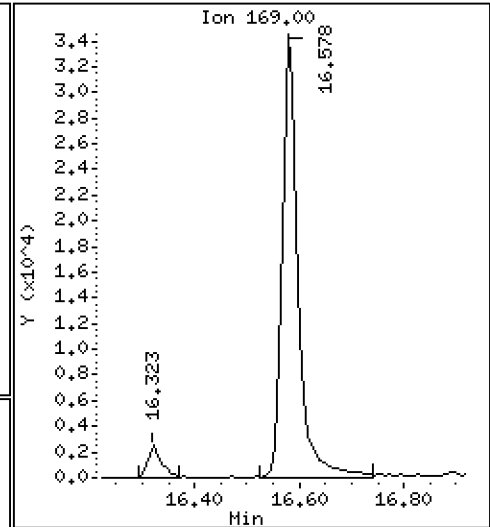
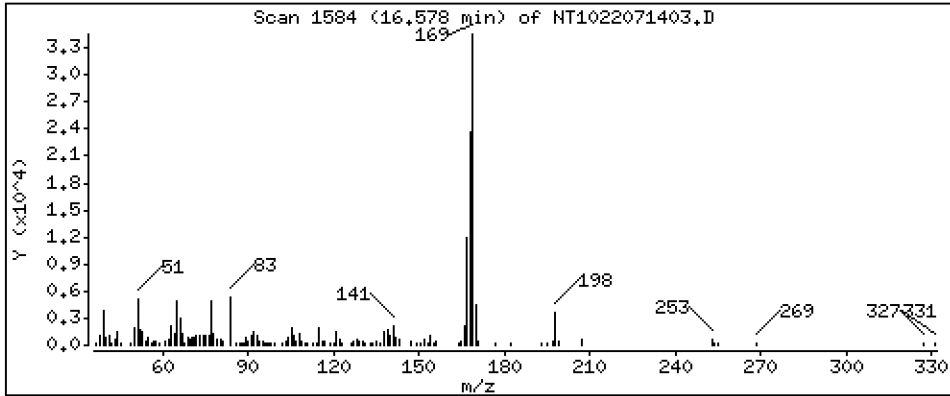
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,7290 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

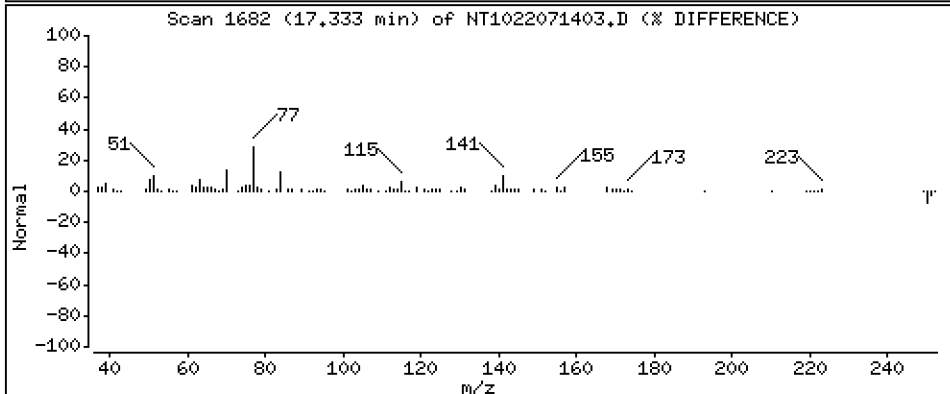
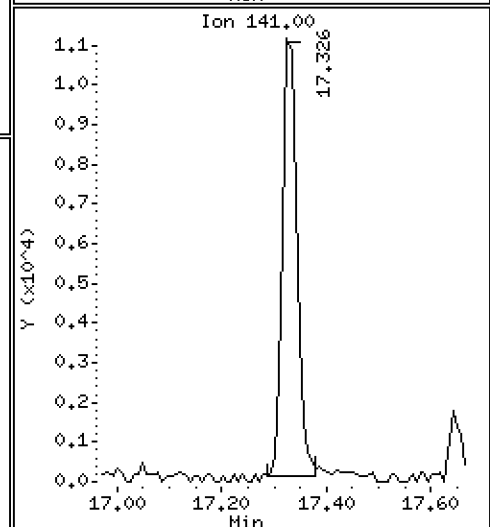
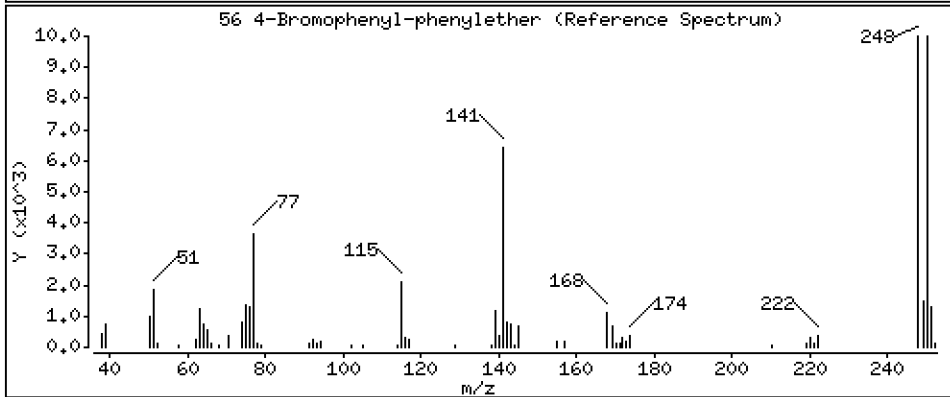
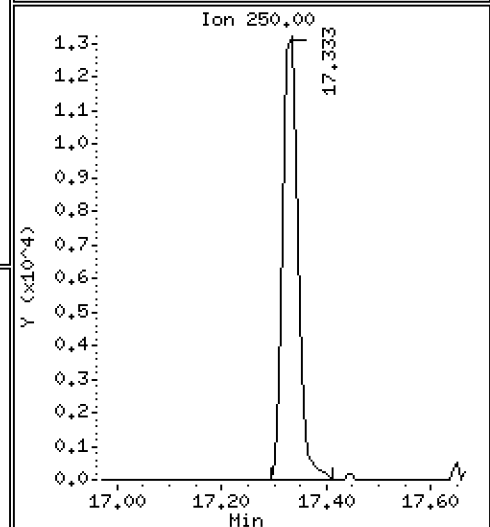
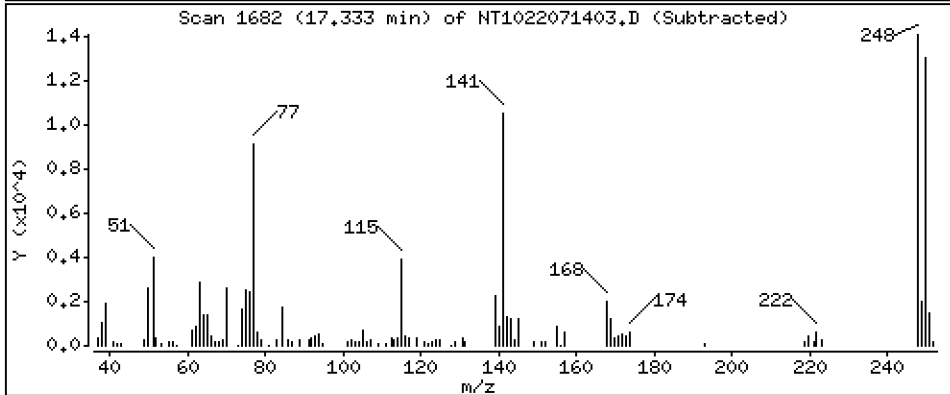
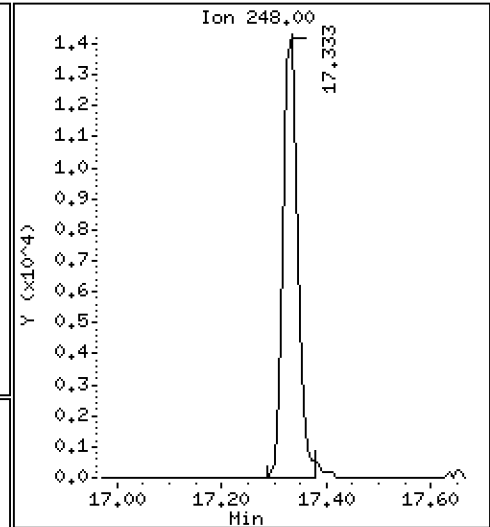
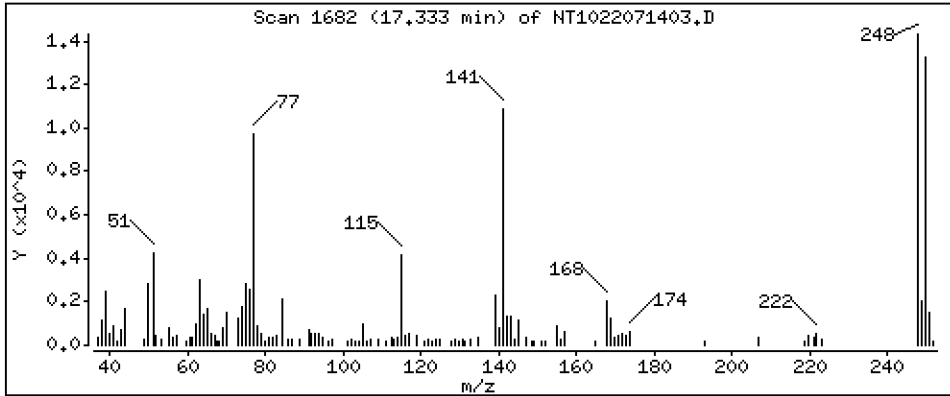
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,5777 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

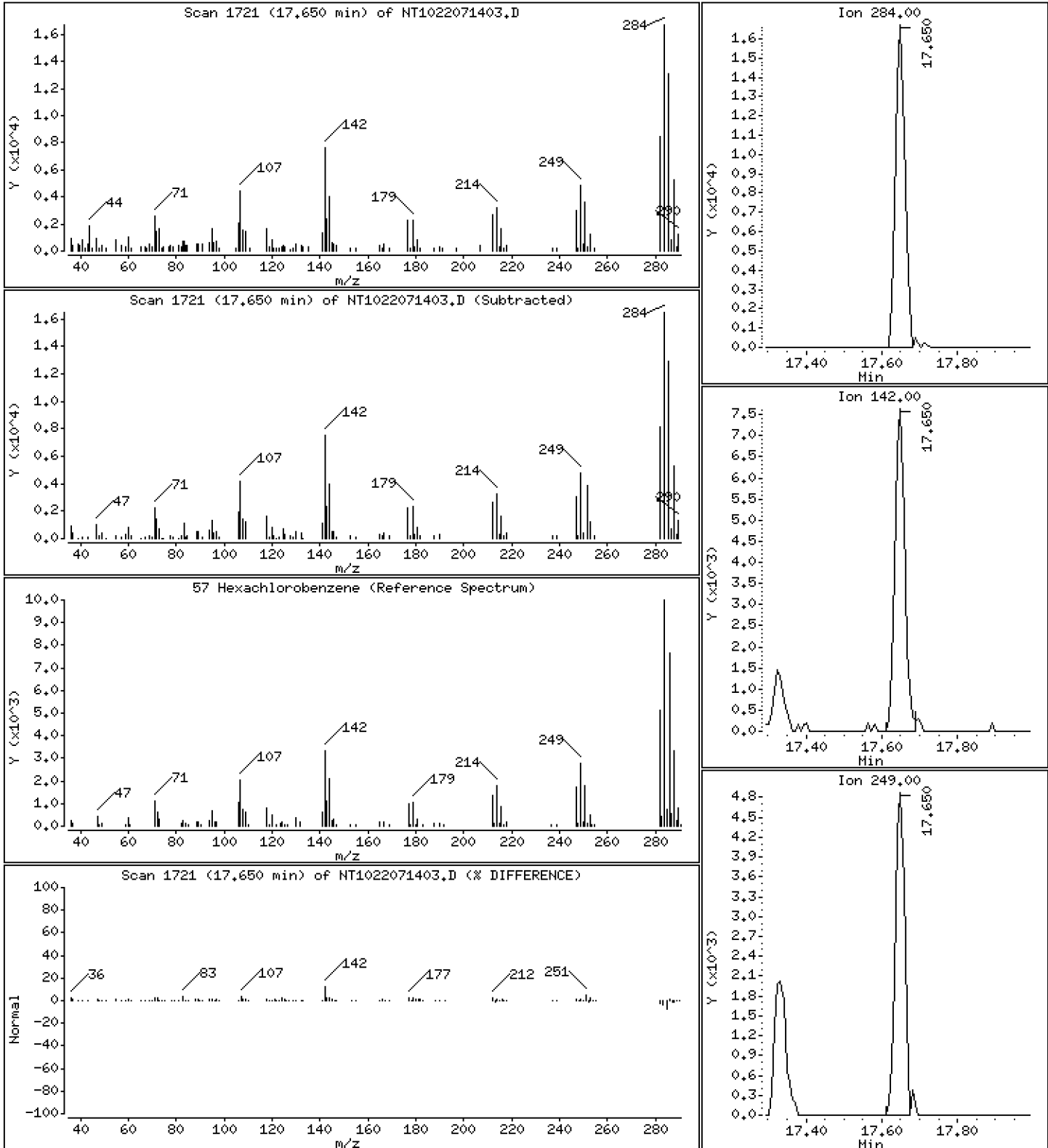
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,6249 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

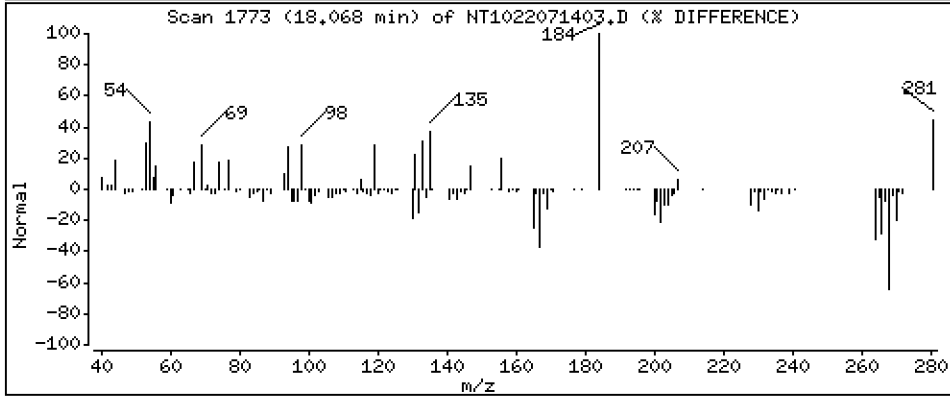
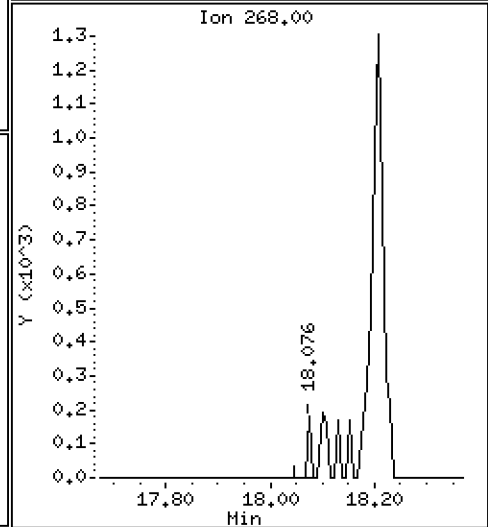
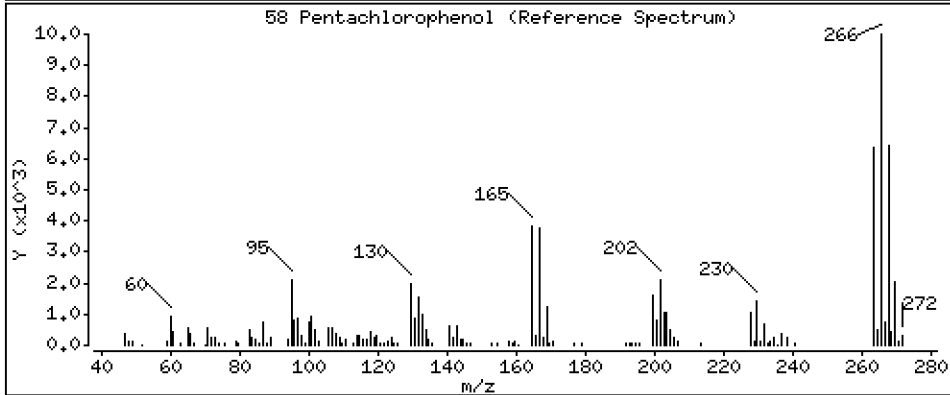
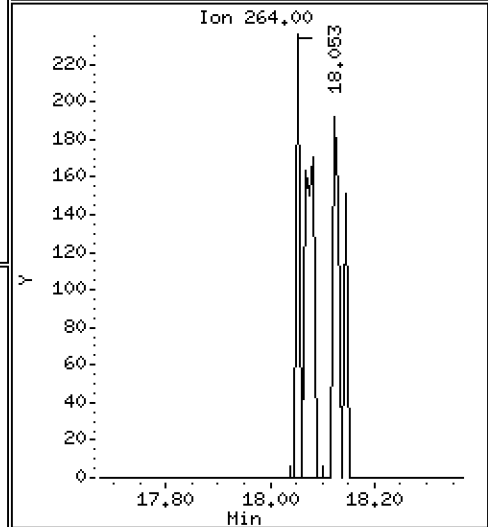
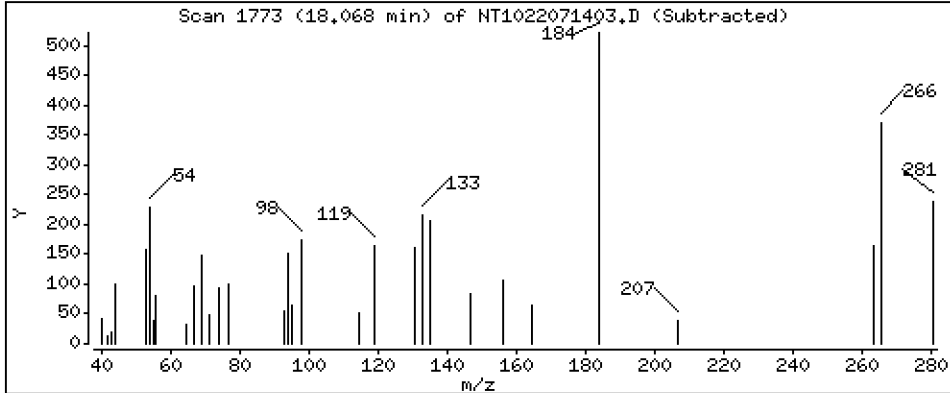
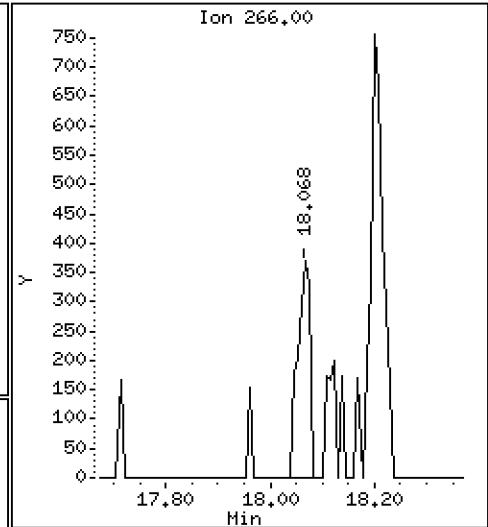
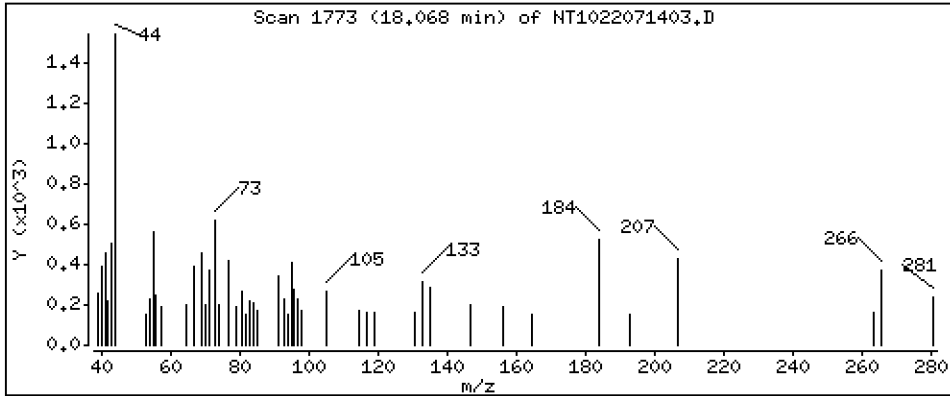
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,06782 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

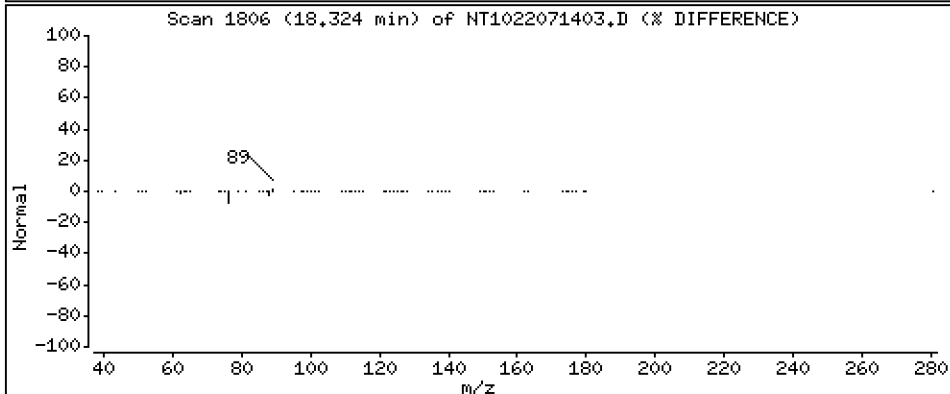
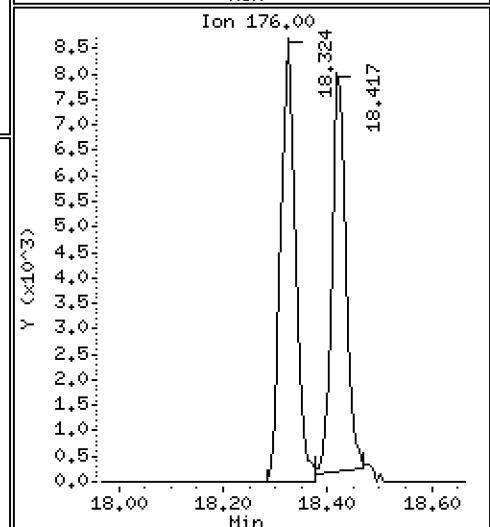
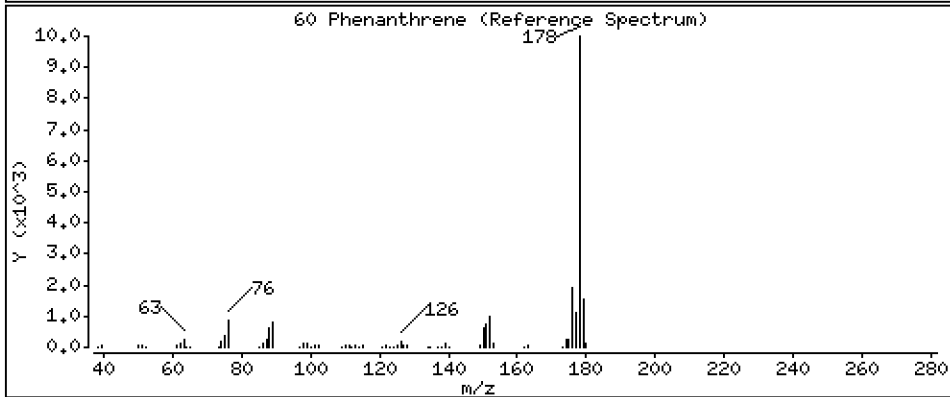
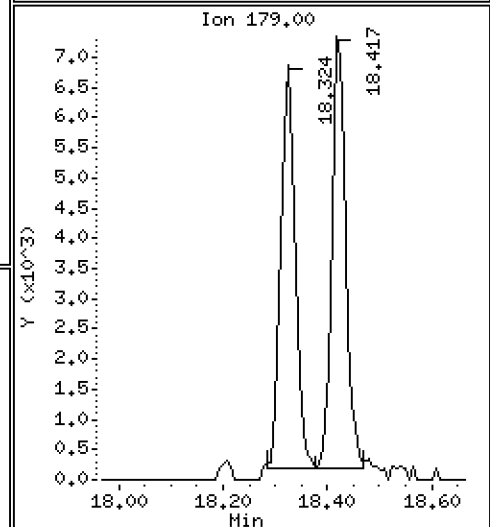
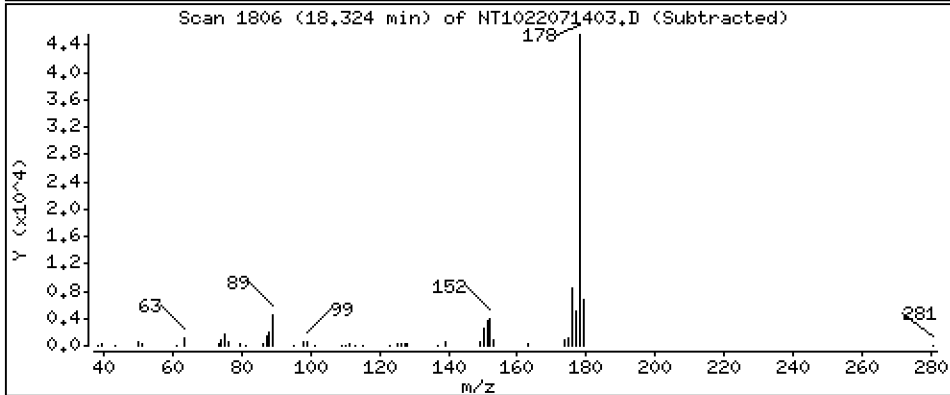
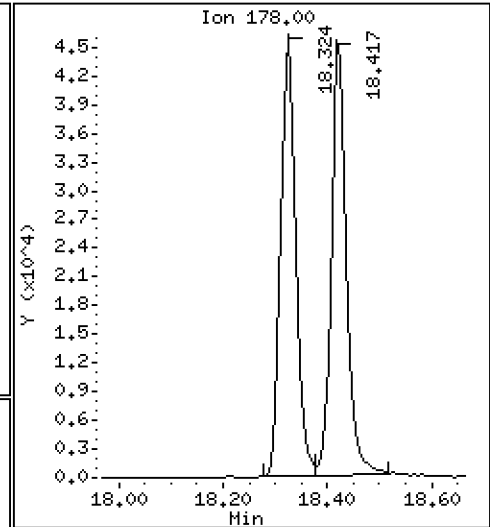
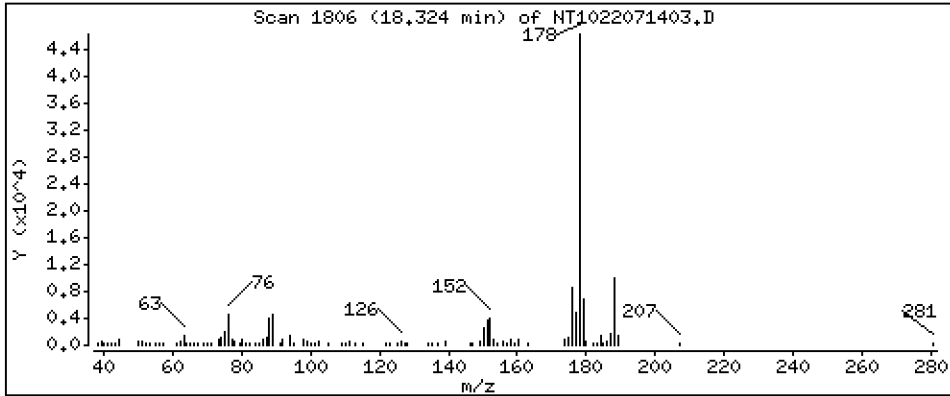
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5489 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

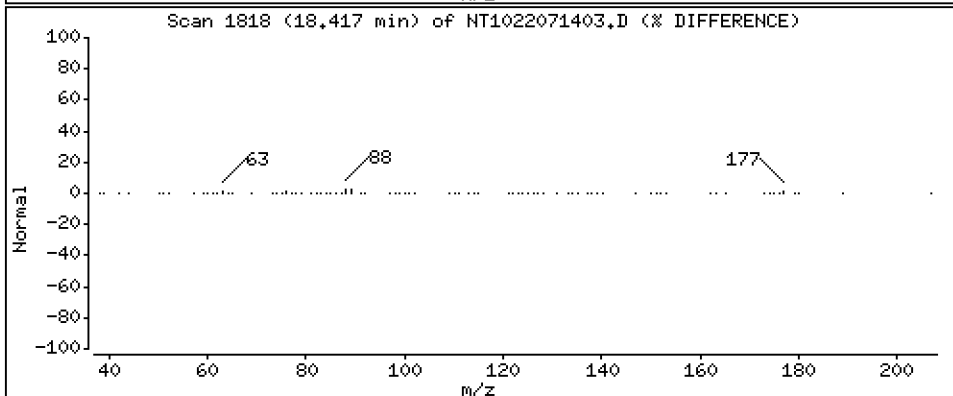
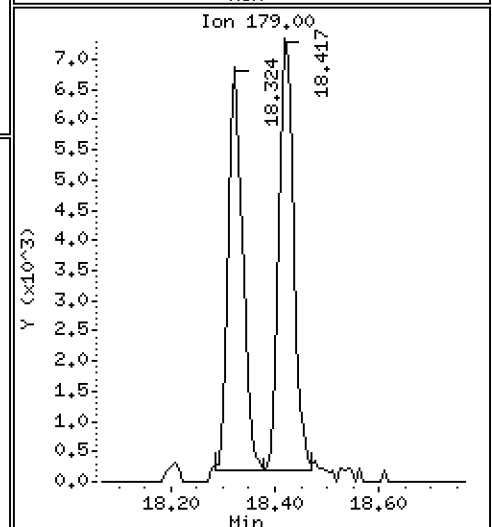
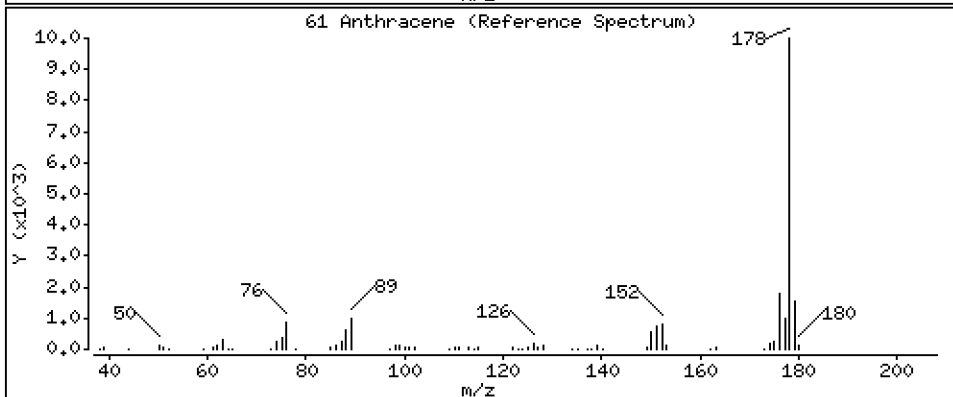
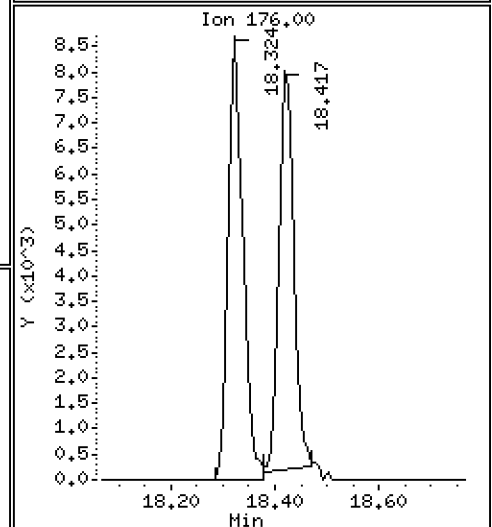
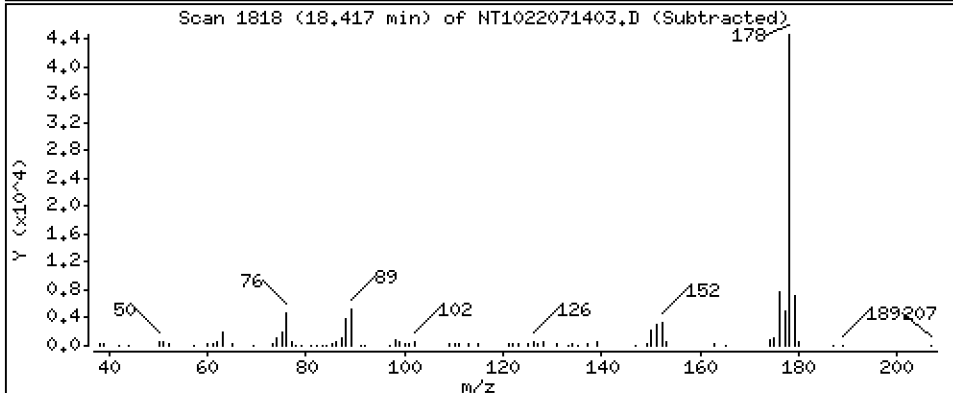
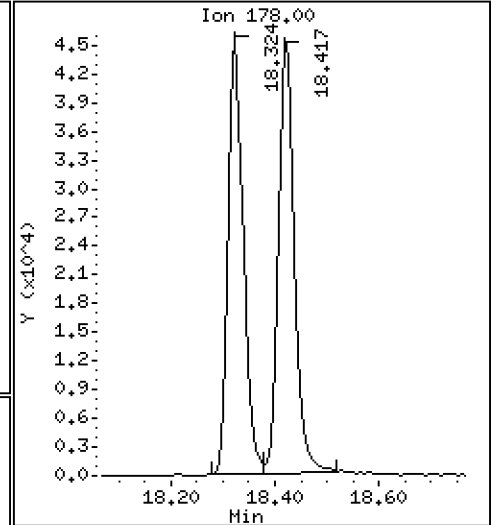
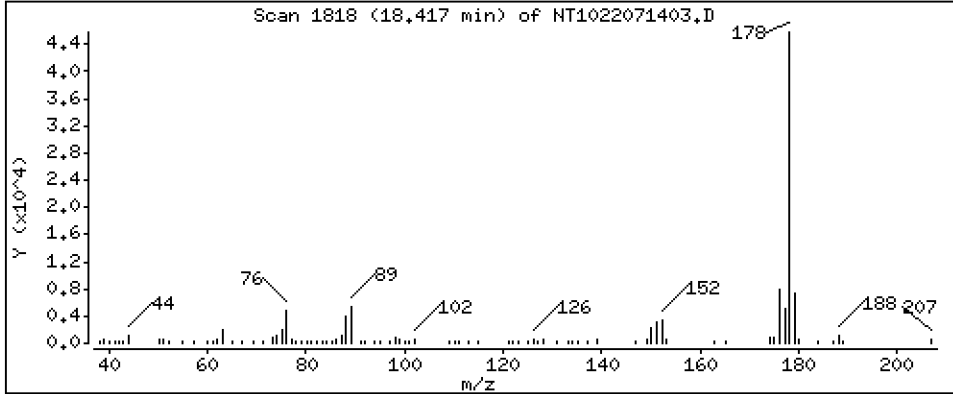
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5249 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

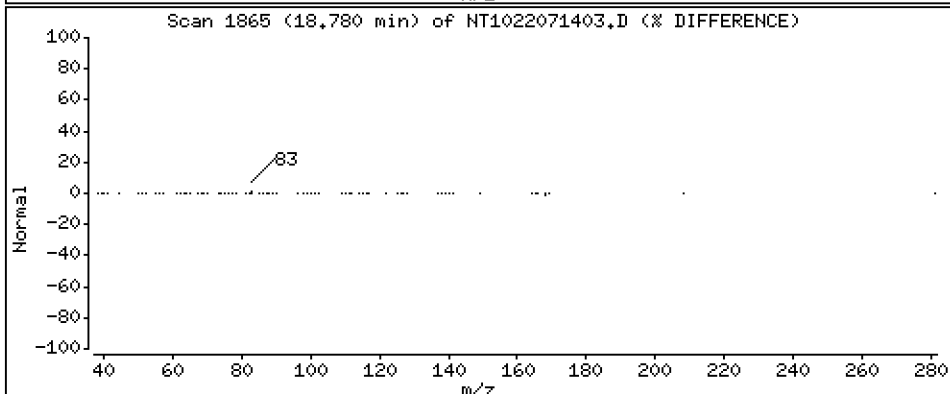
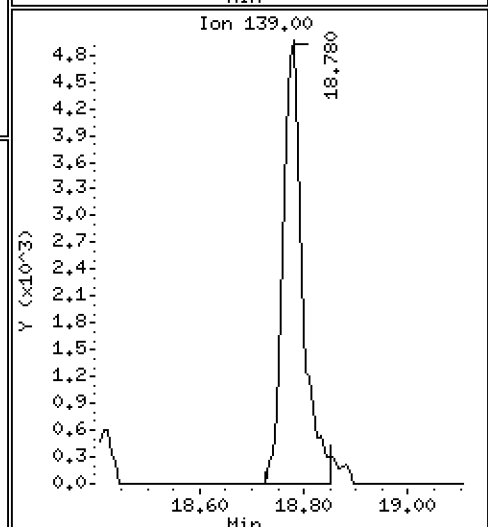
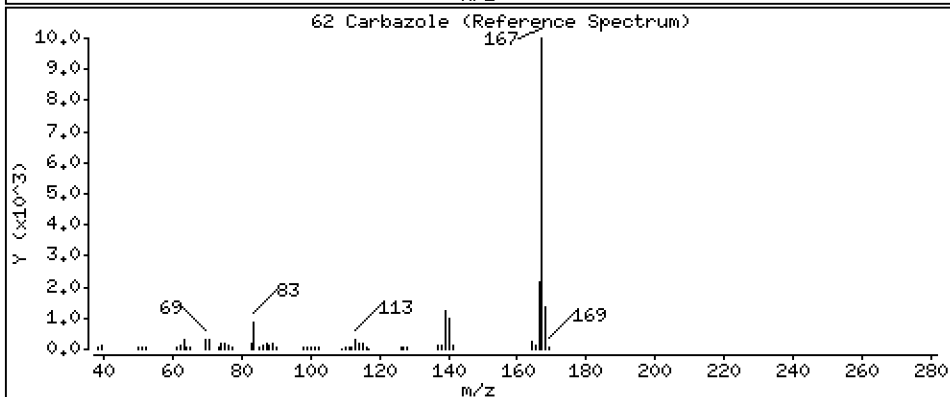
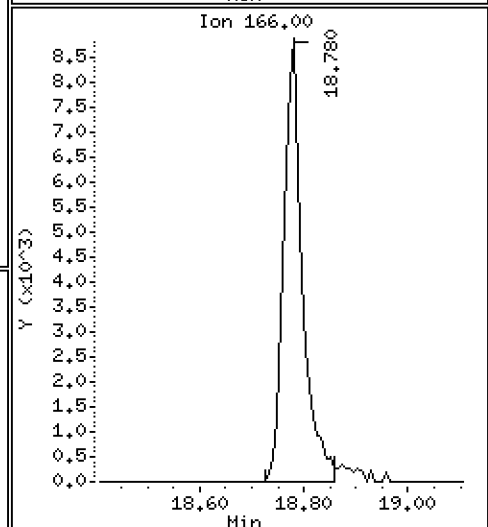
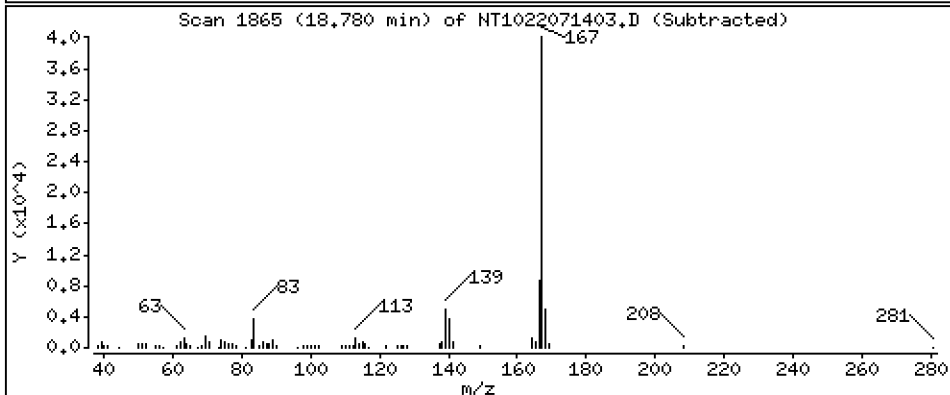
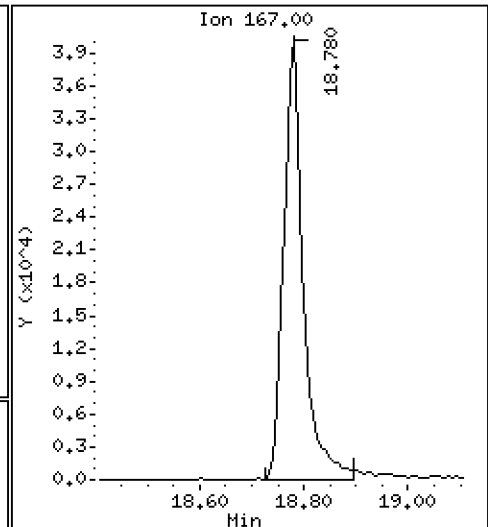
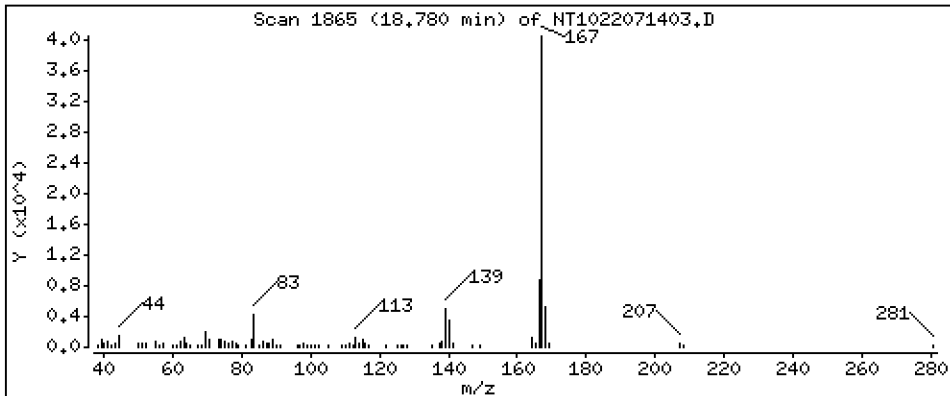
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,6446 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

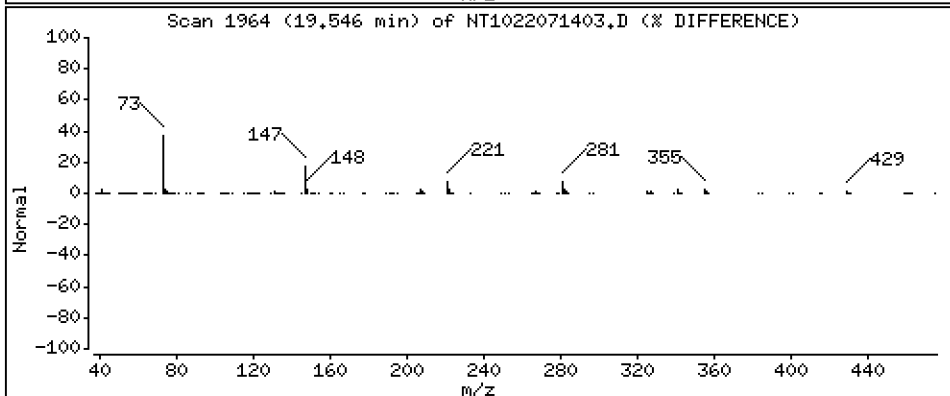
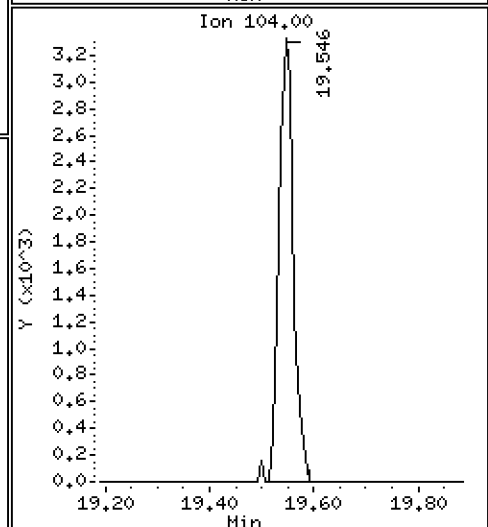
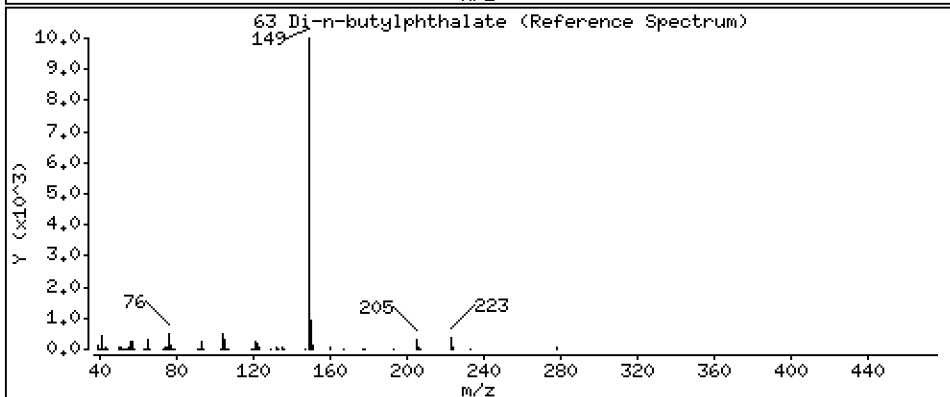
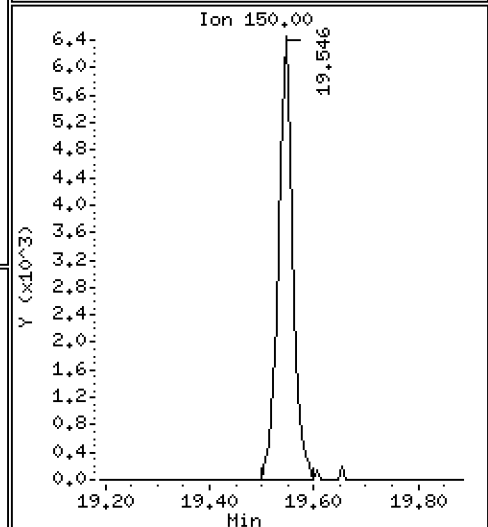
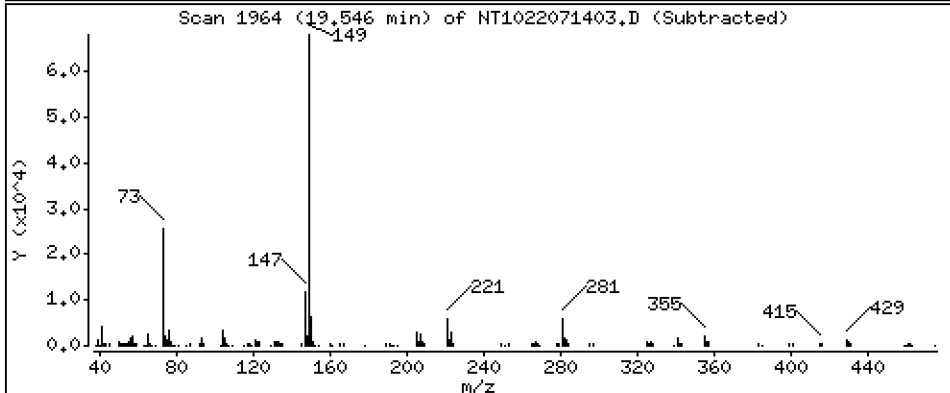
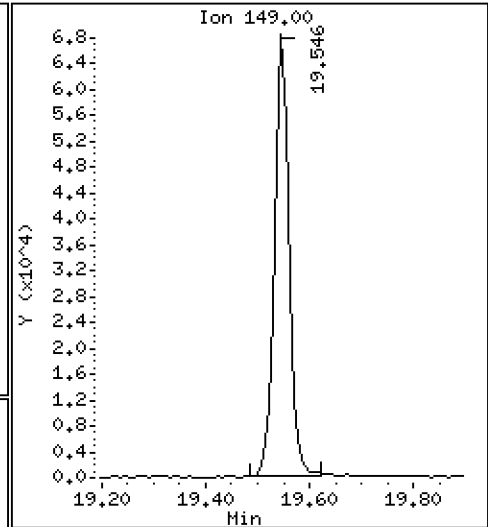
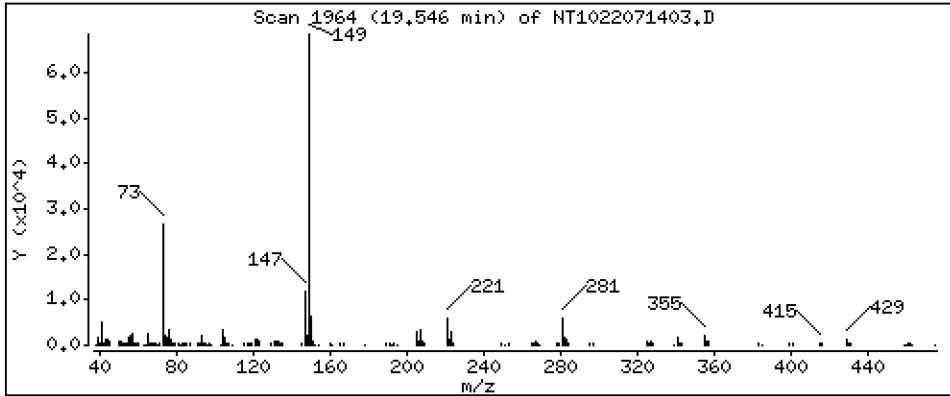
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,5142 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

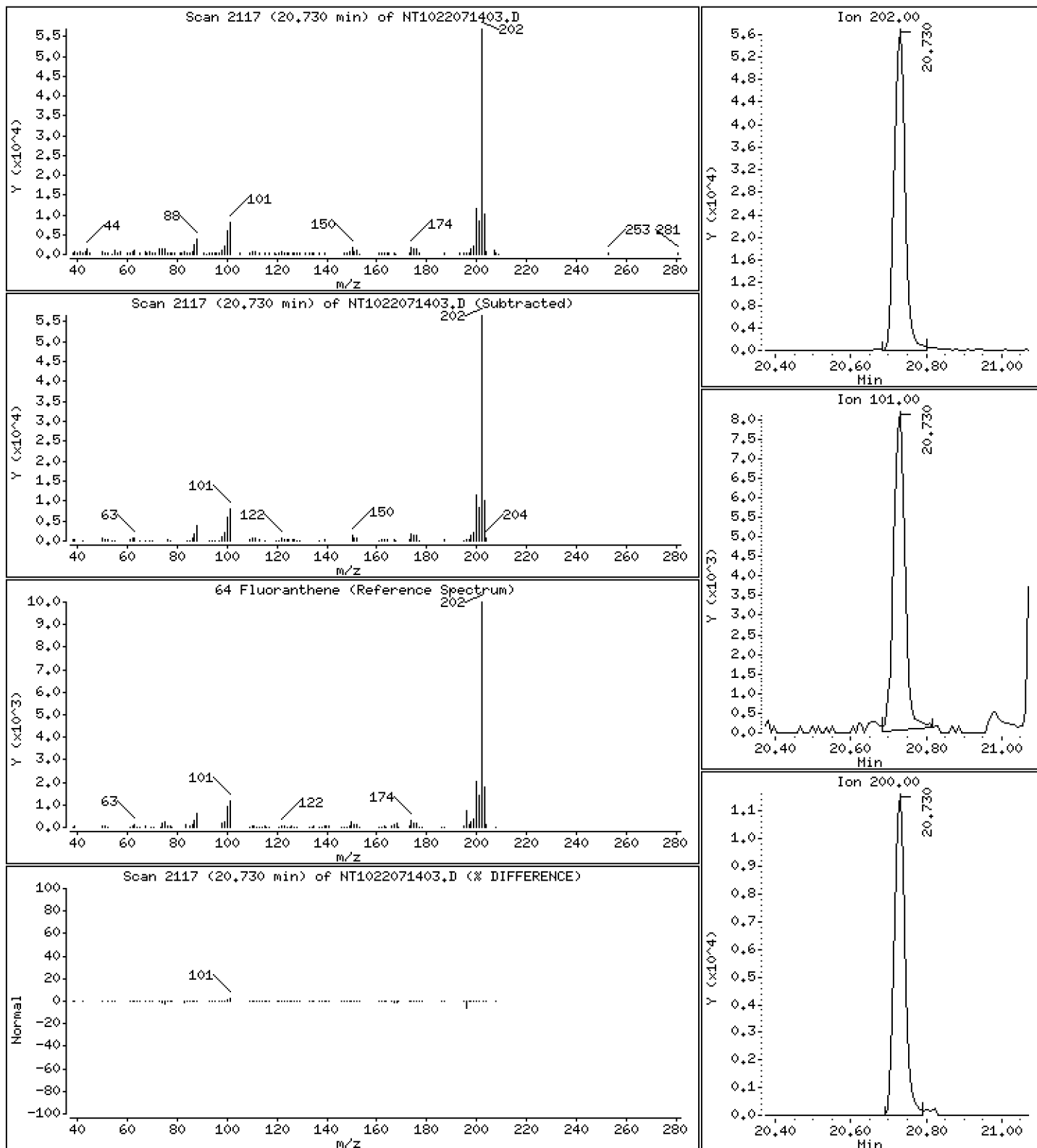
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,8247 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

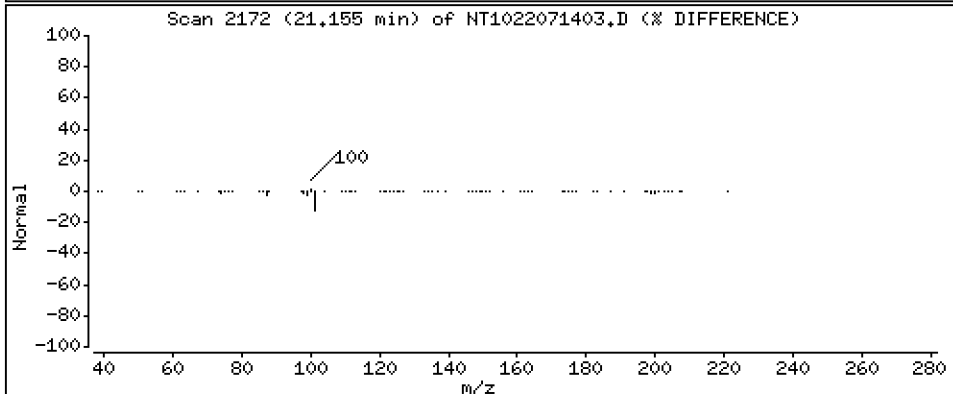
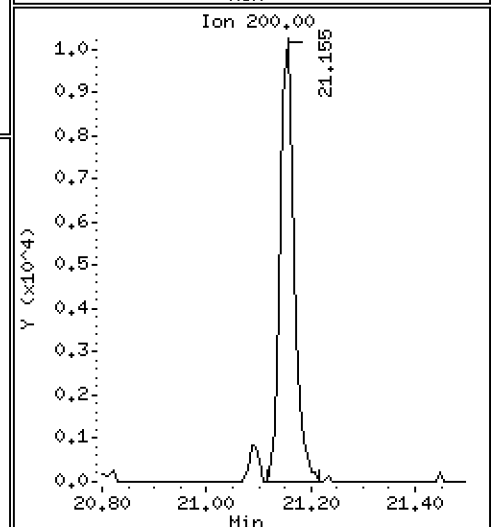
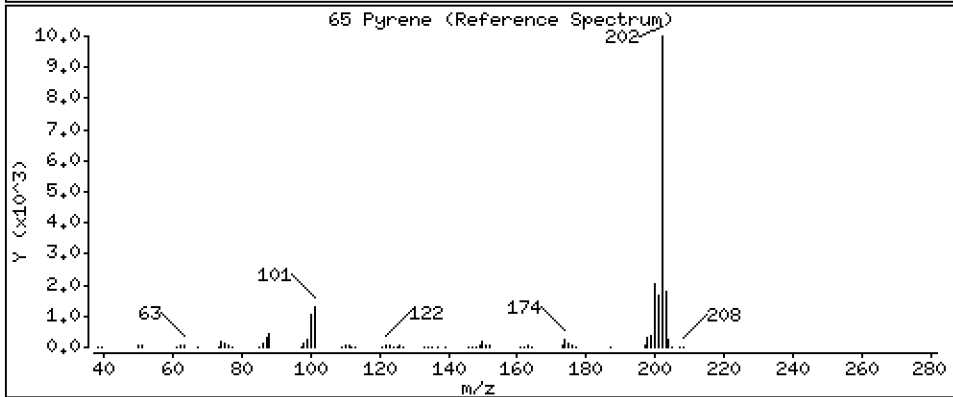
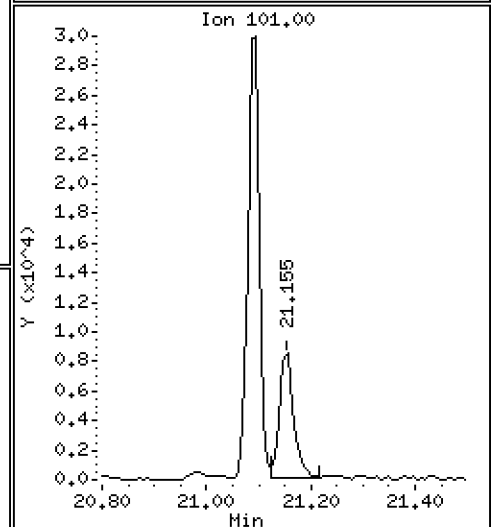
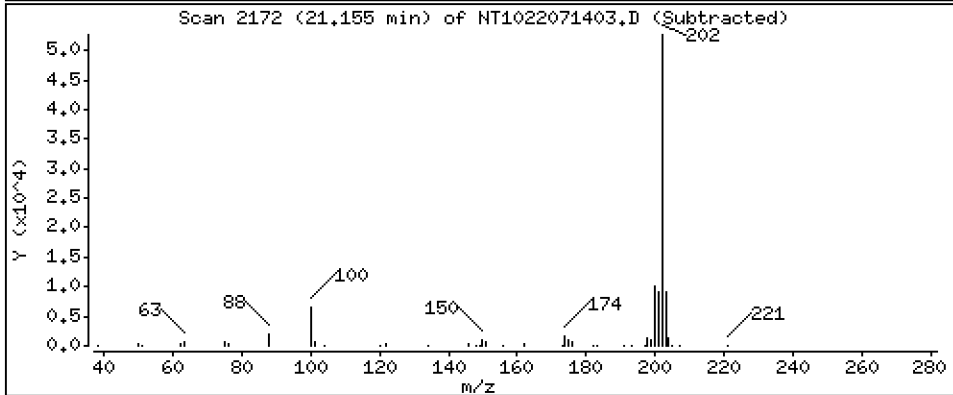
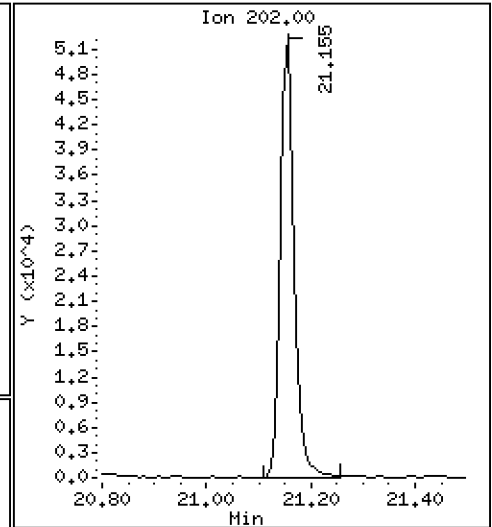
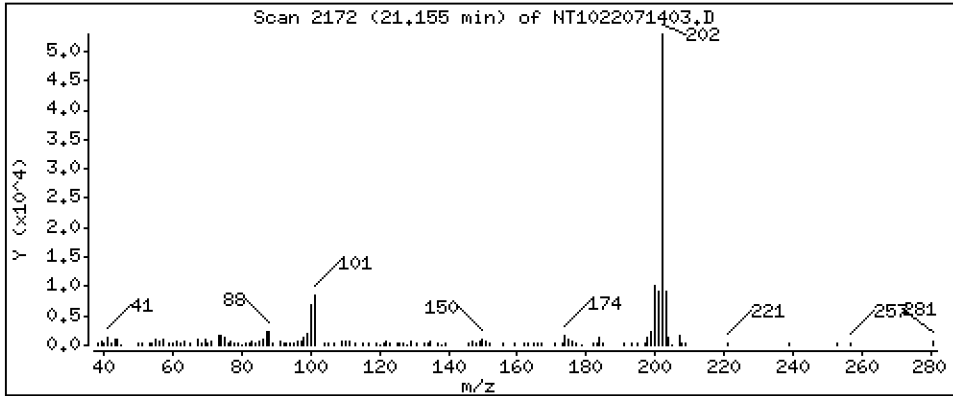
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,7816 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

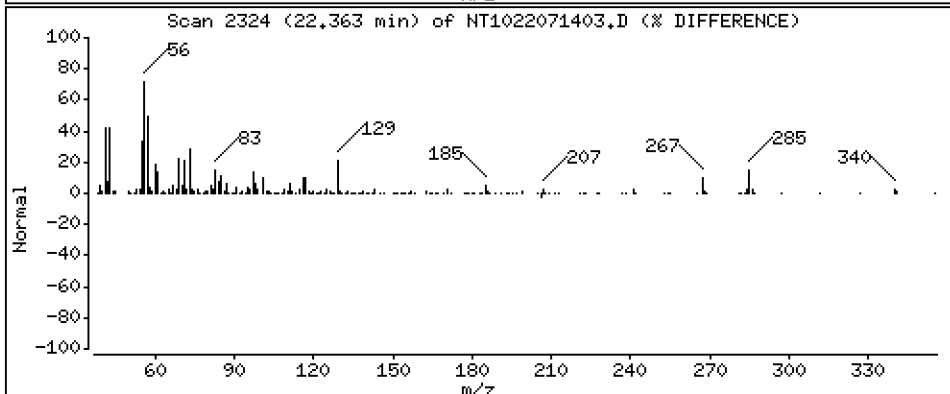
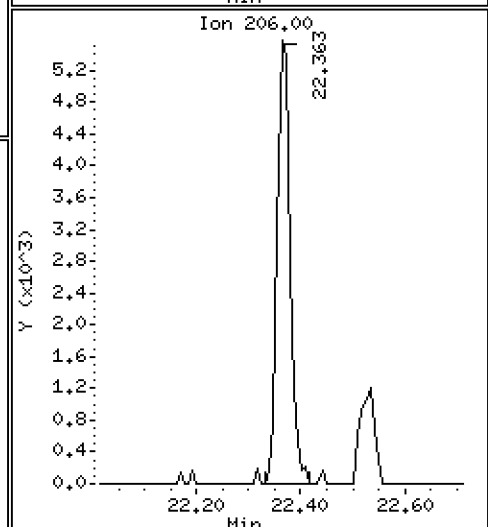
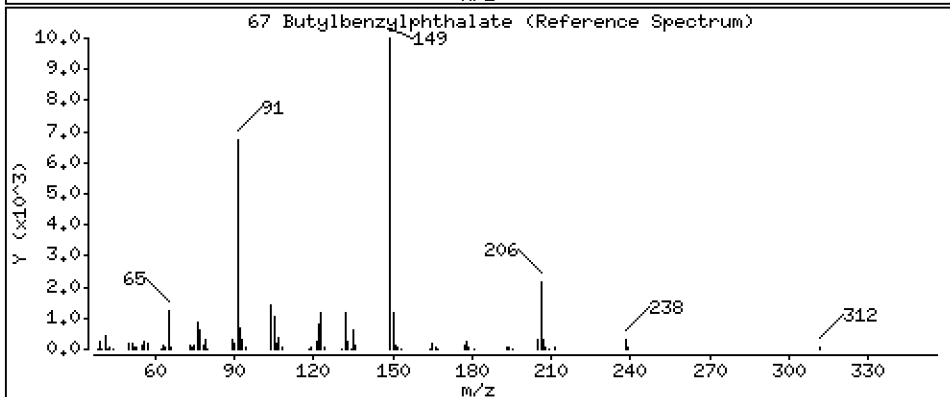
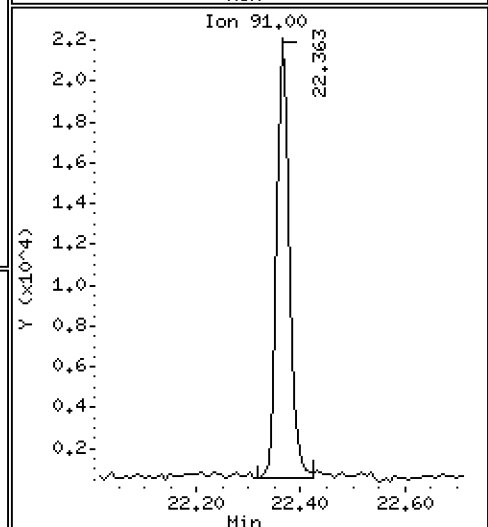
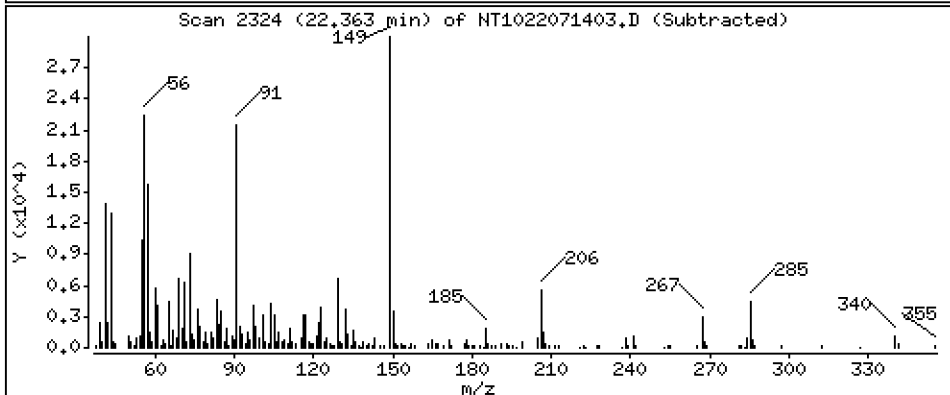
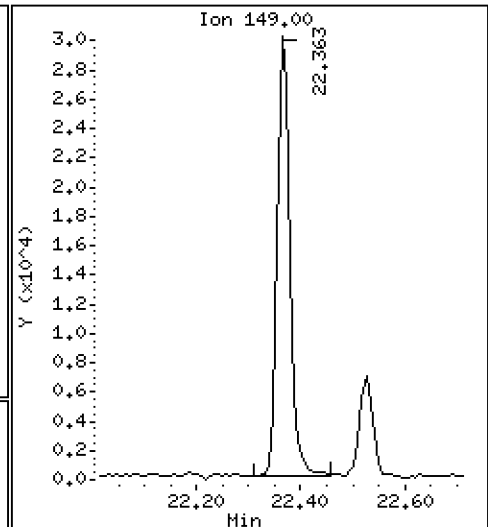
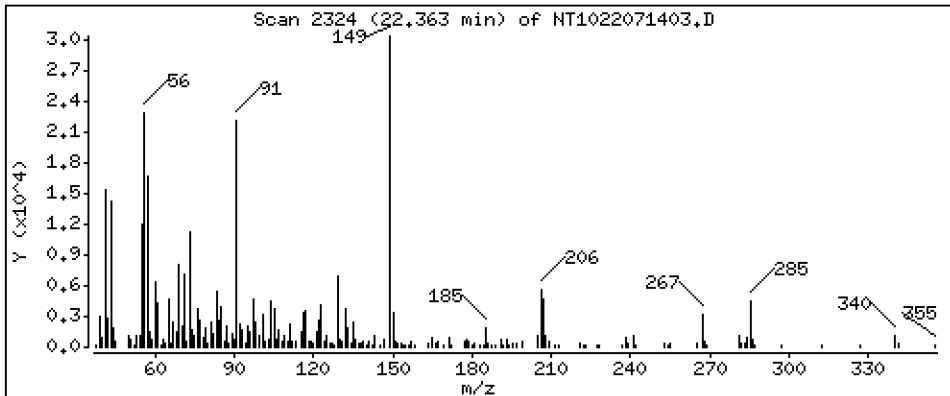
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 1,276 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

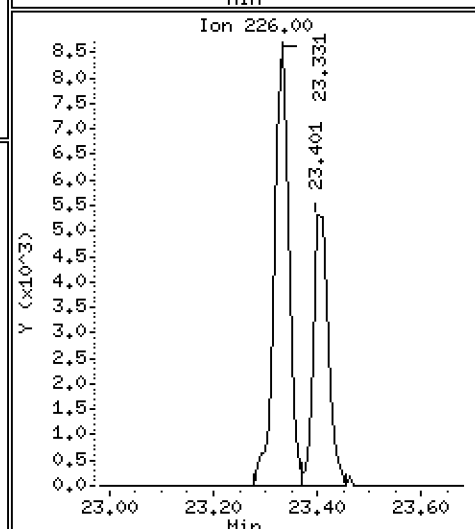
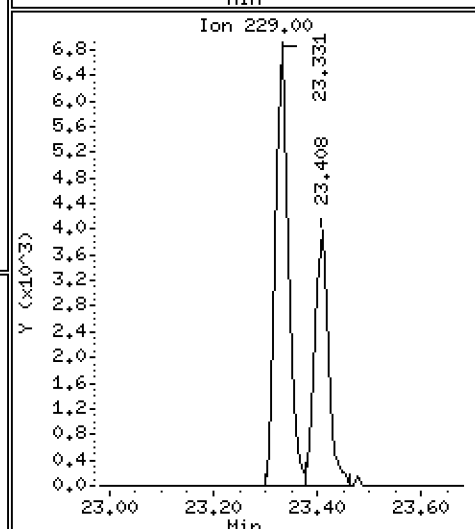
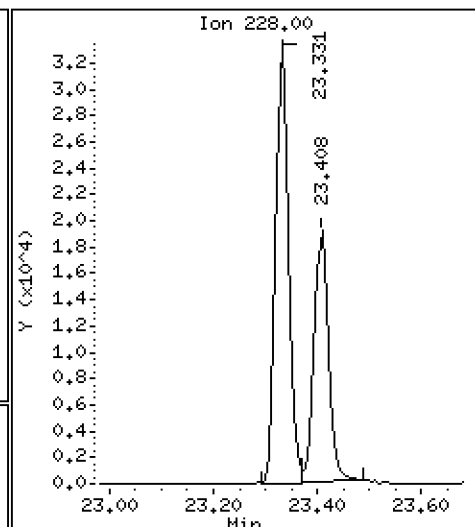
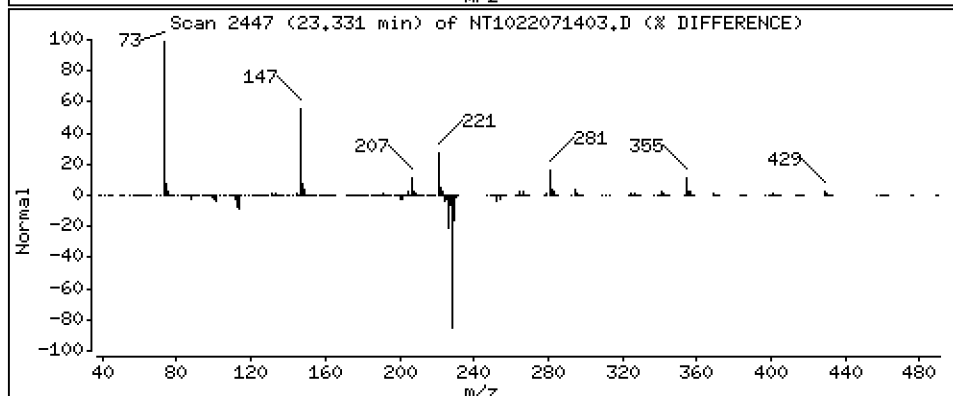
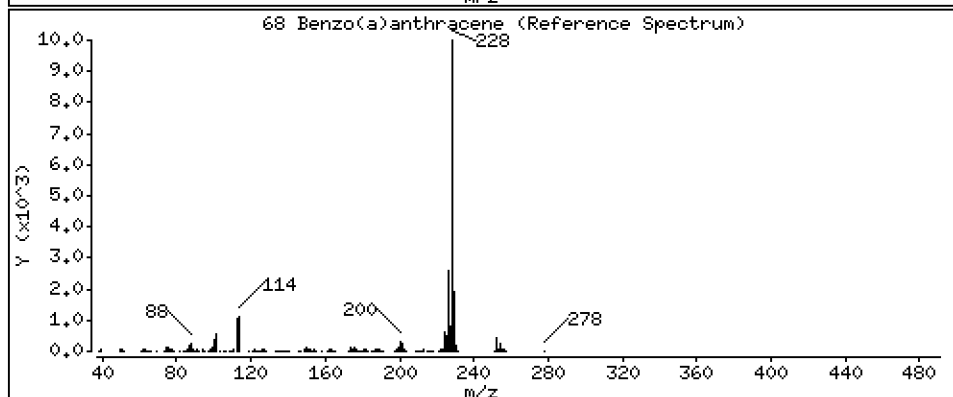
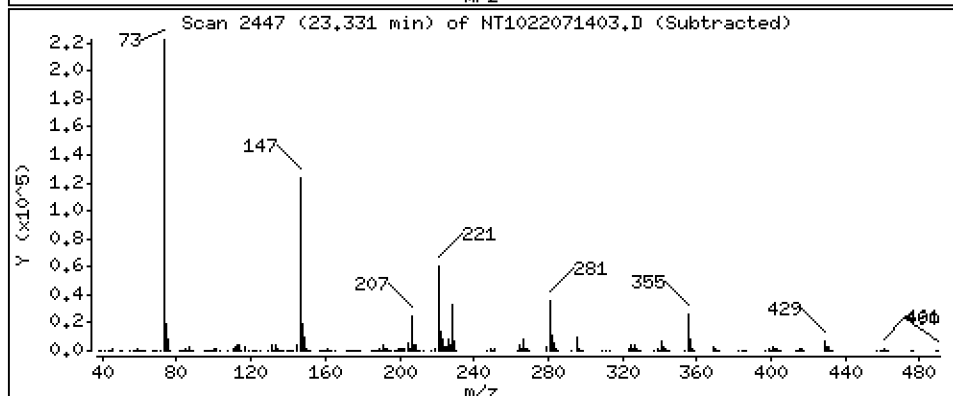
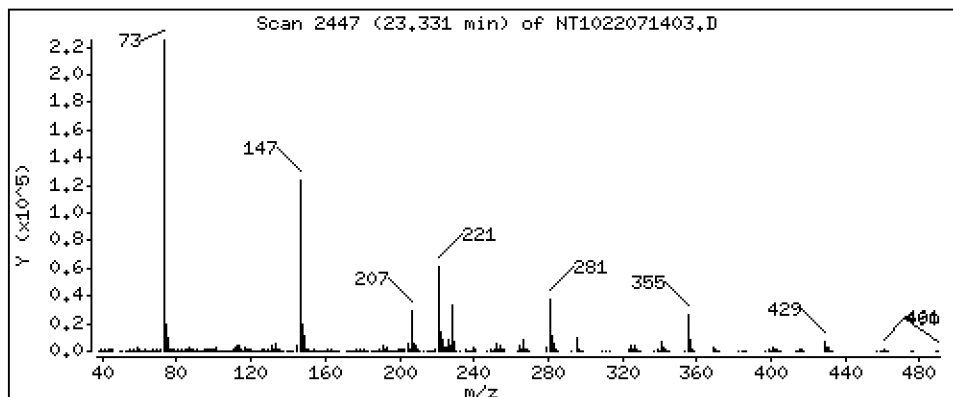
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,6861 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

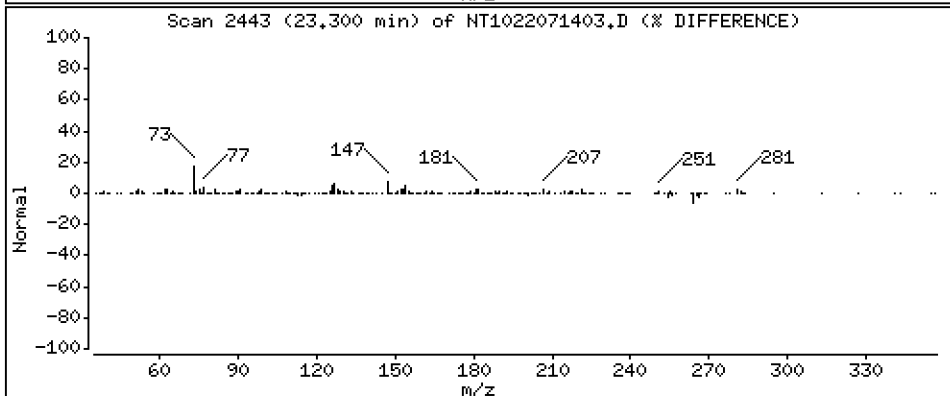
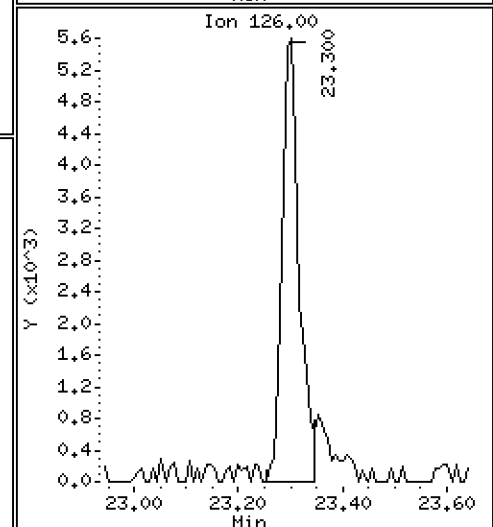
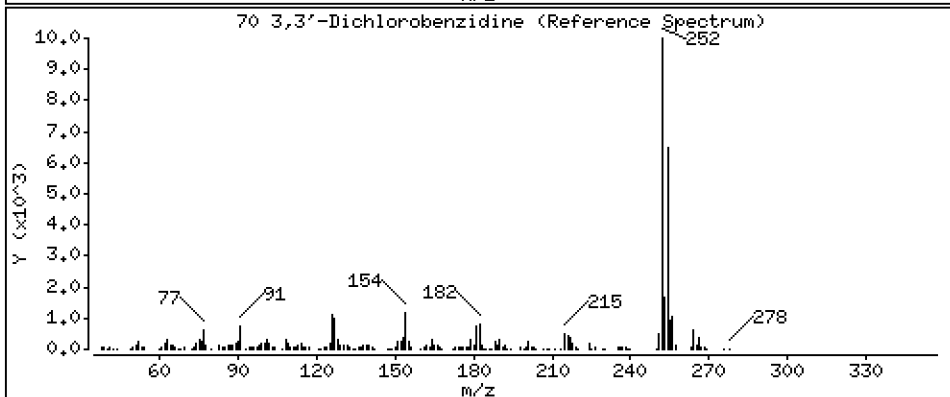
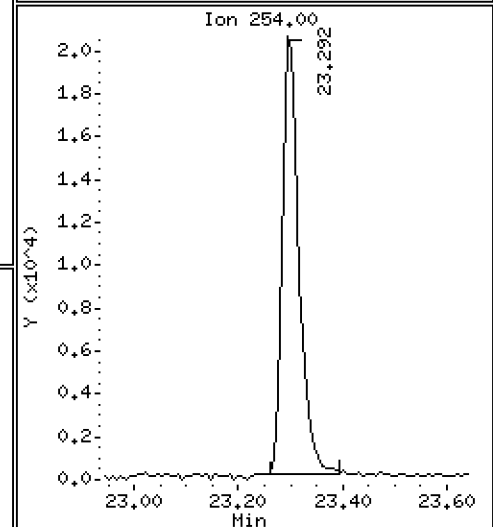
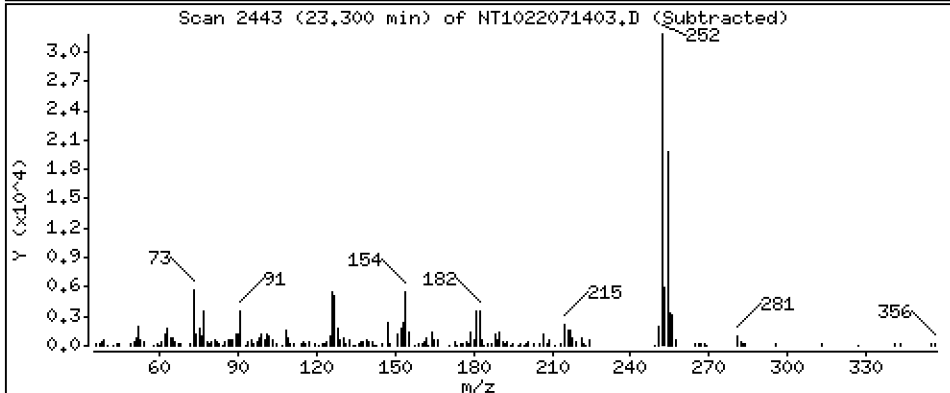
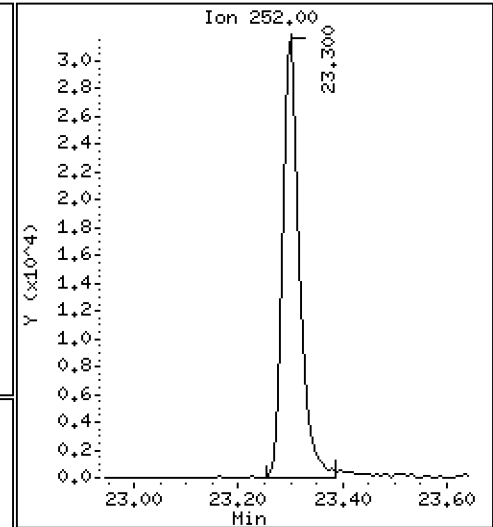
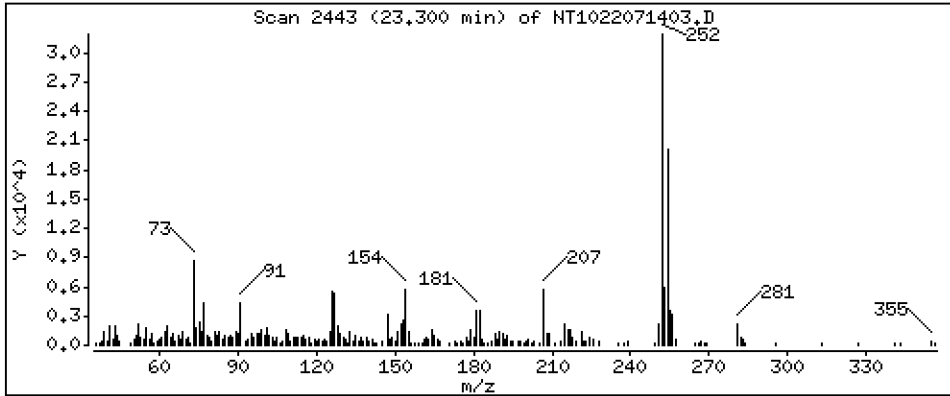
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 2,680 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

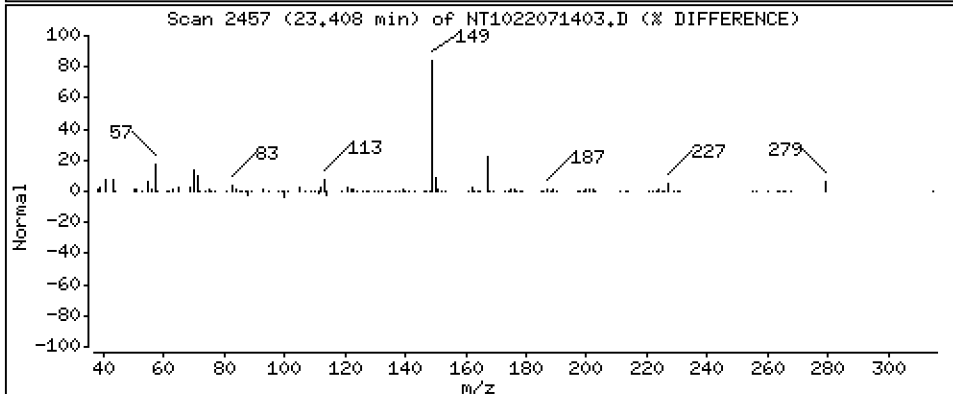
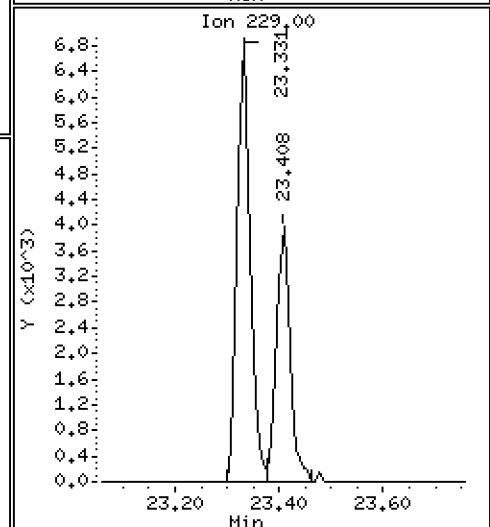
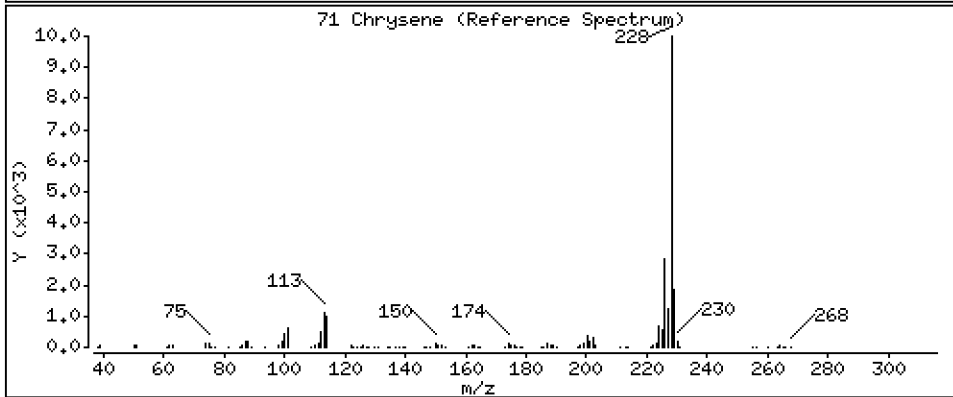
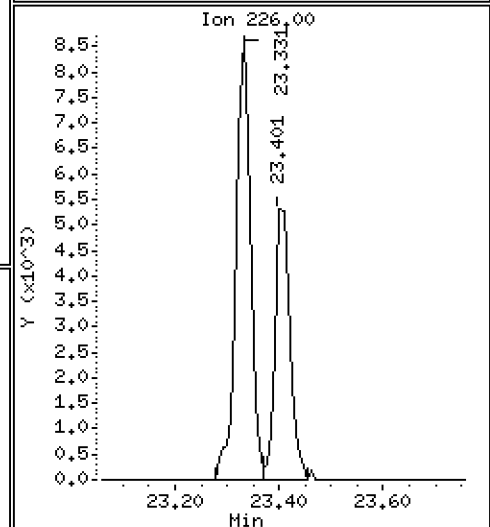
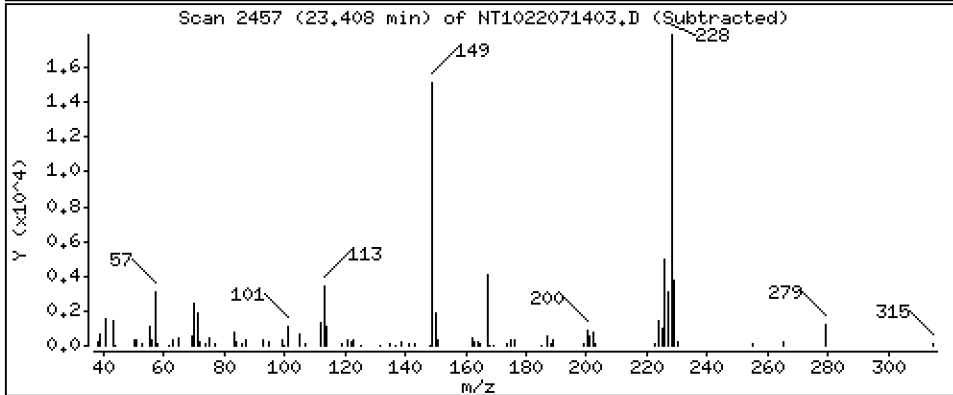
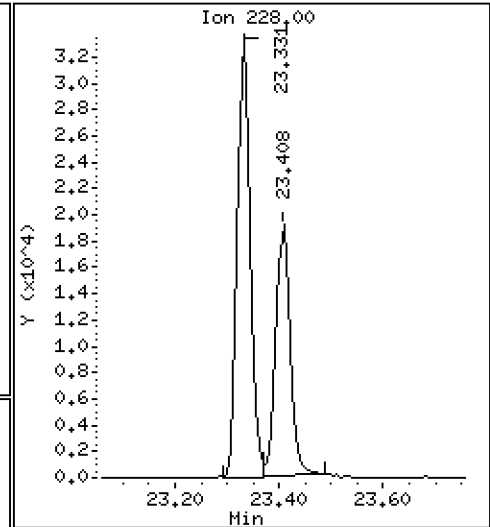
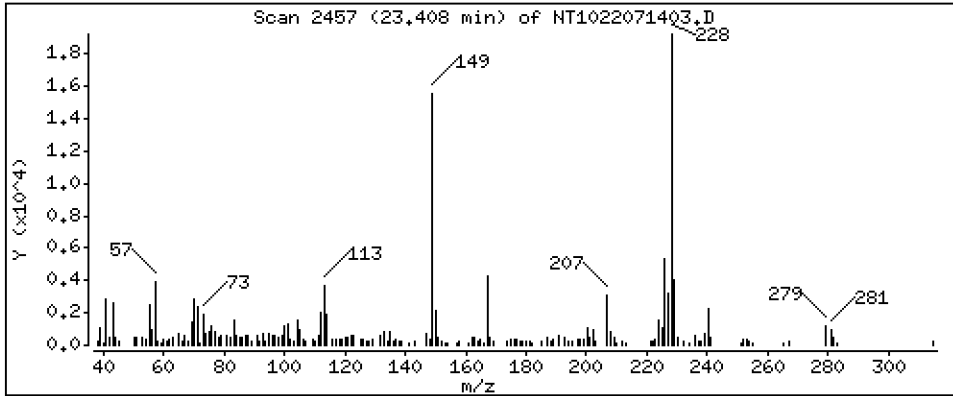
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,6664 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

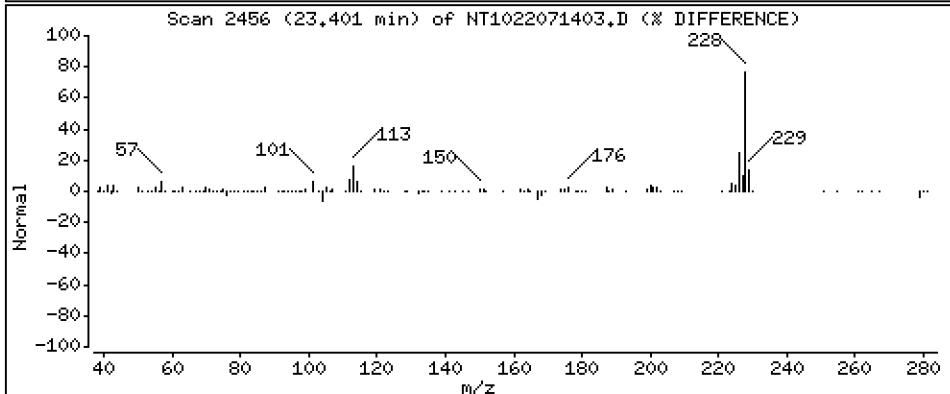
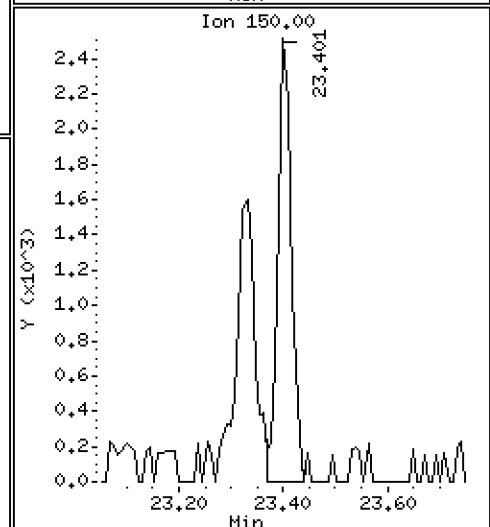
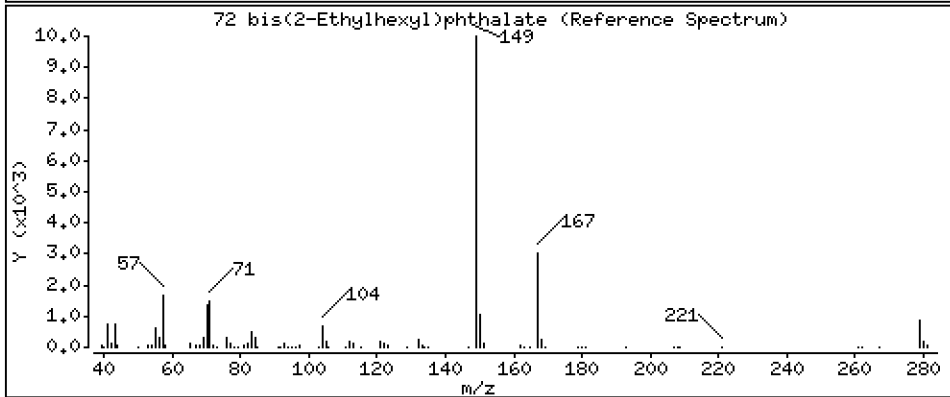
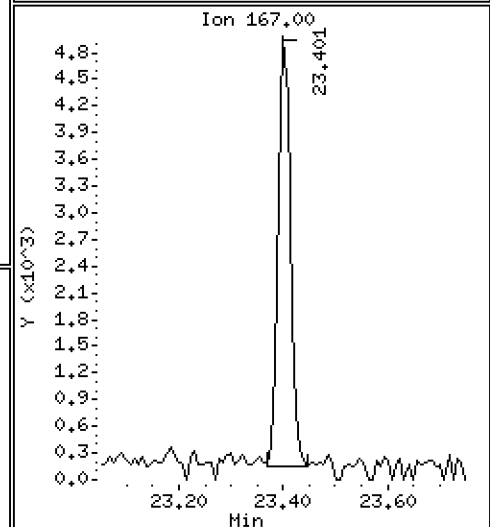
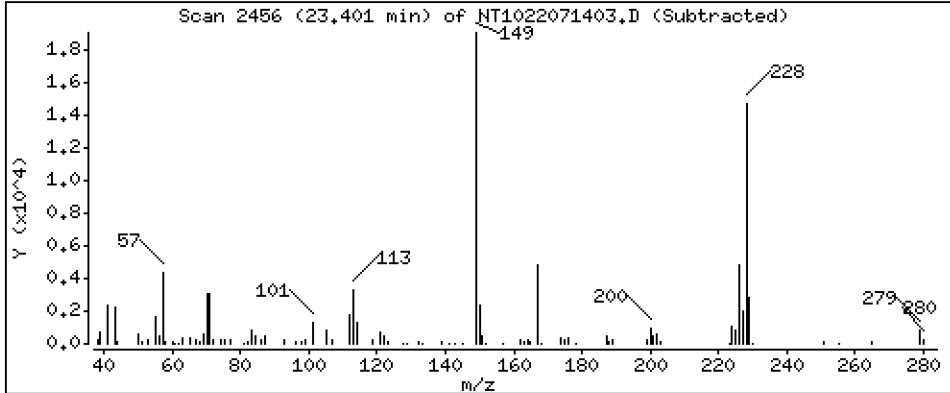
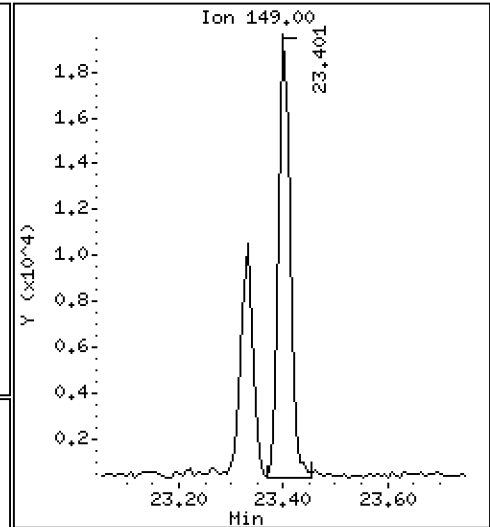
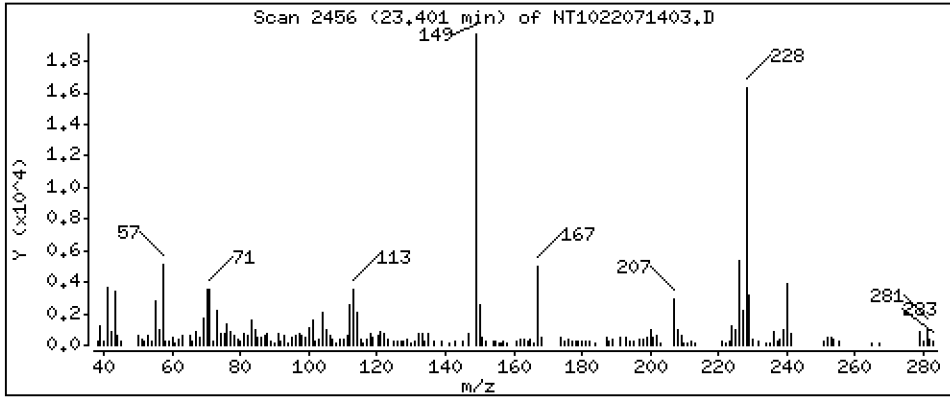
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,6718 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

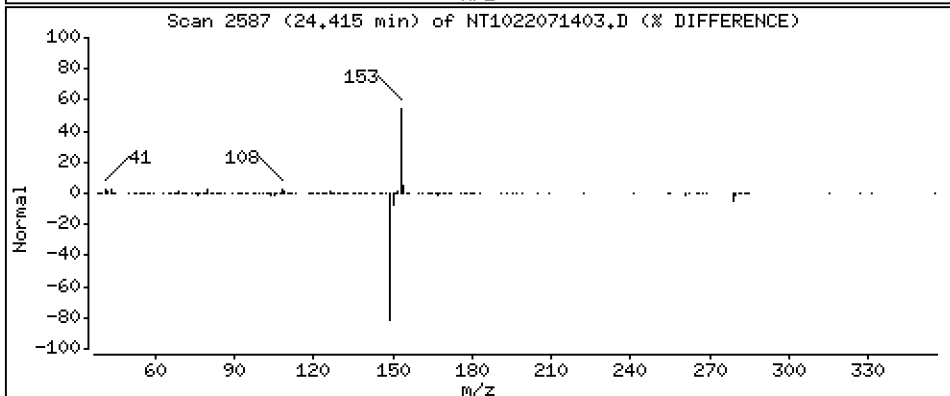
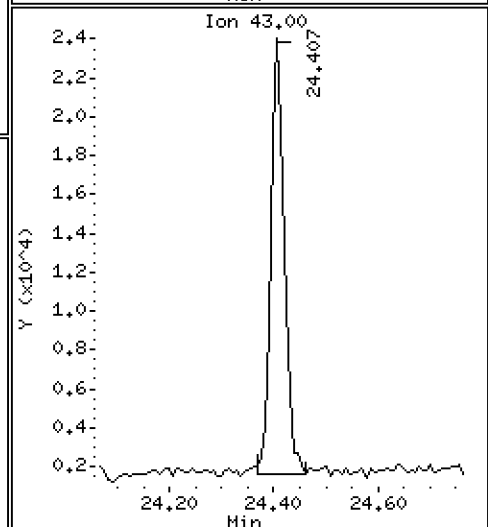
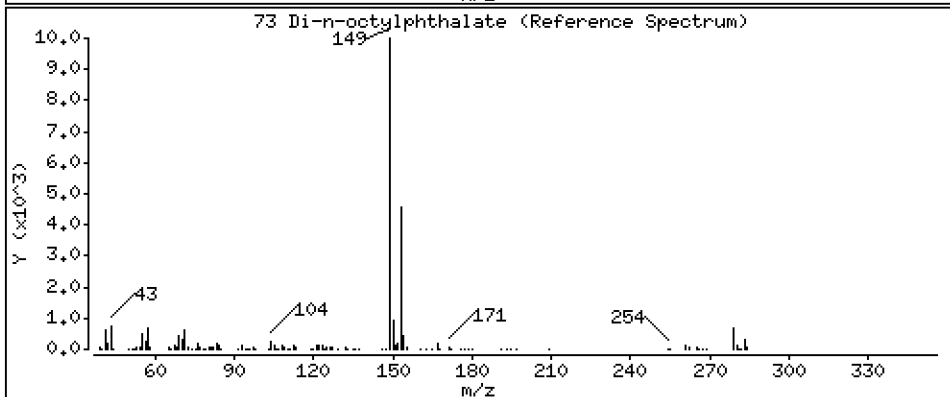
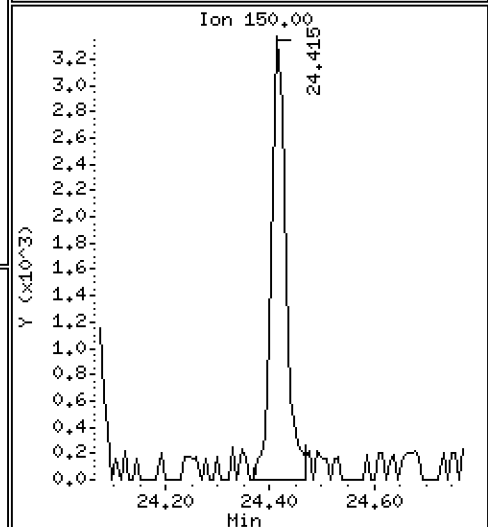
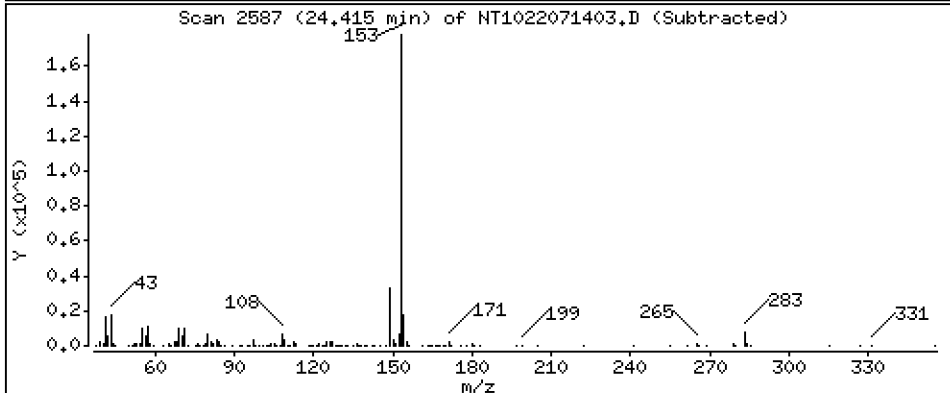
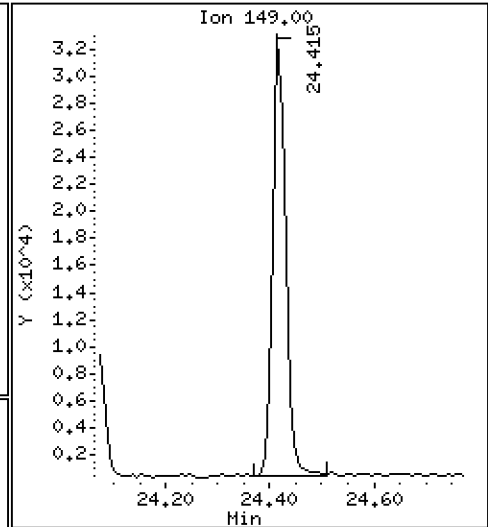
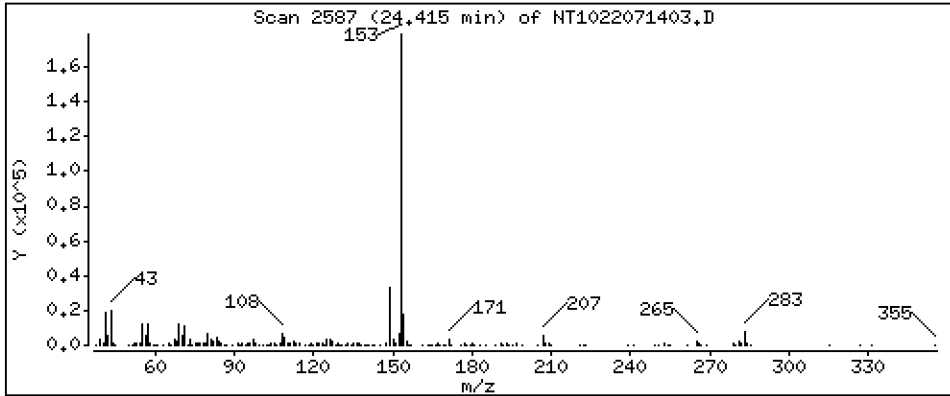
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,6192 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

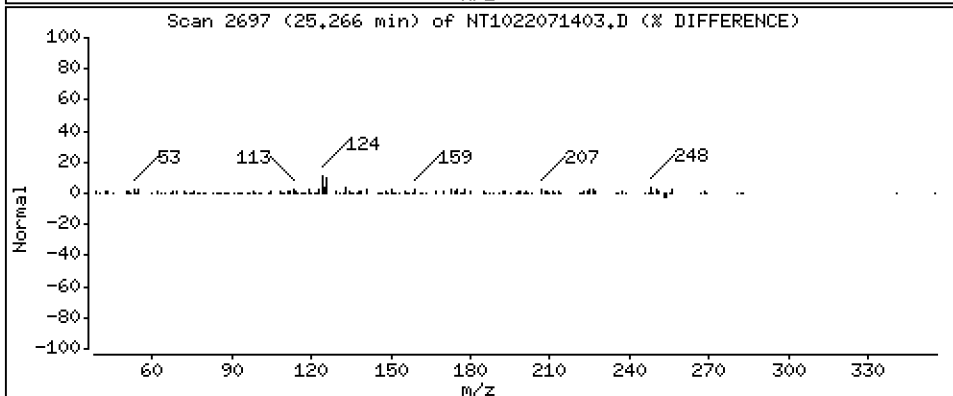
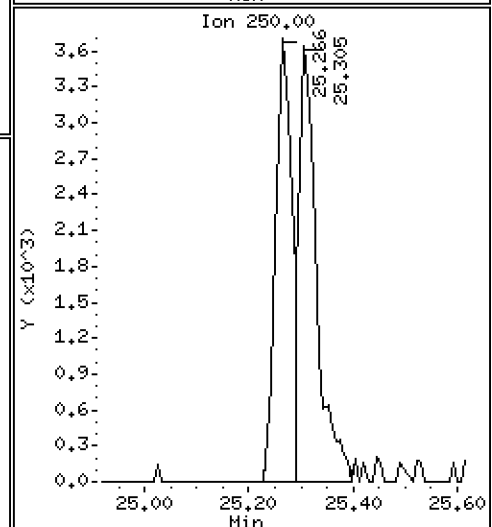
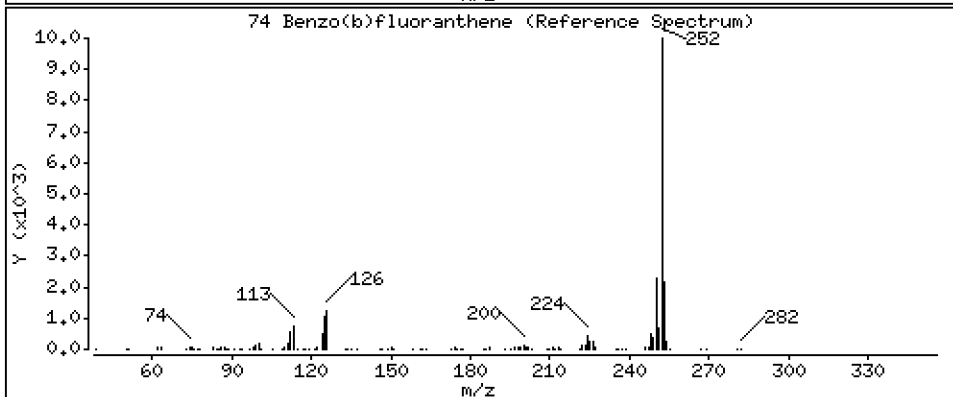
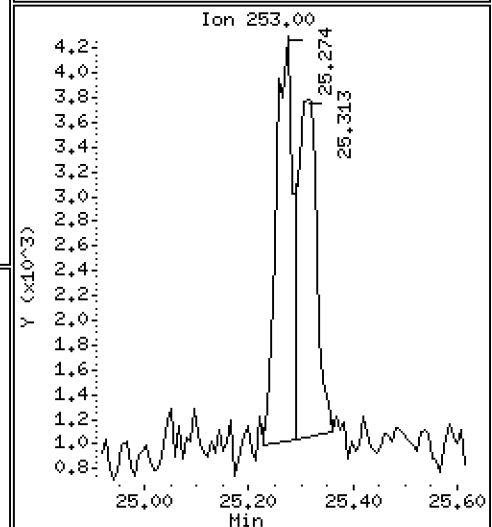
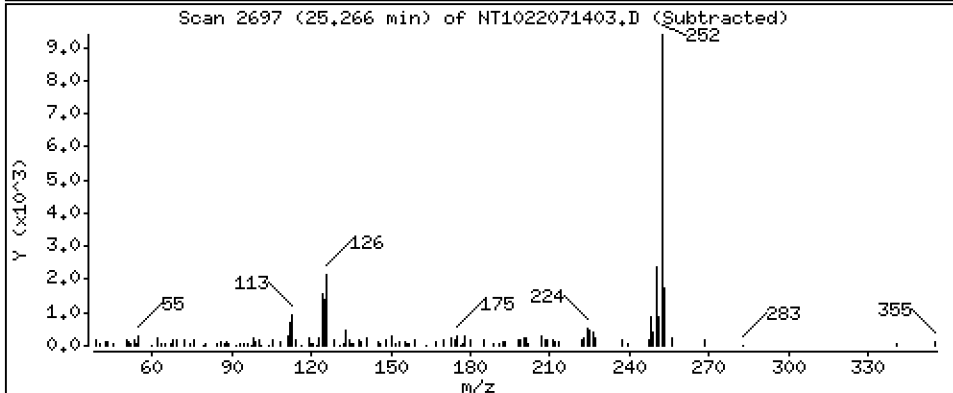
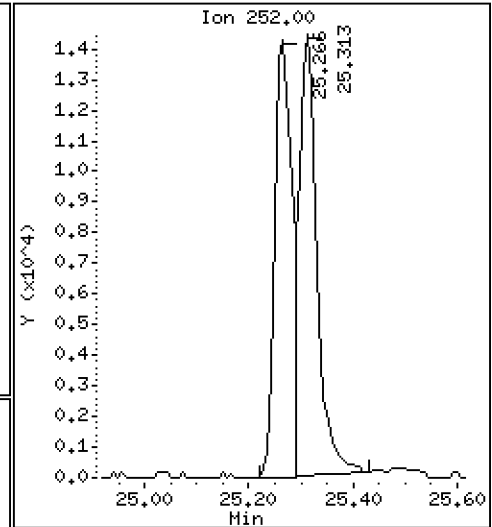
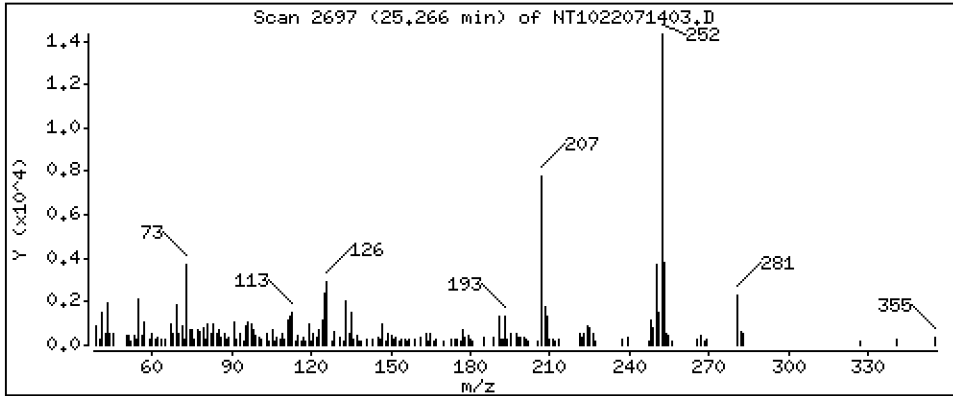
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,4809 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

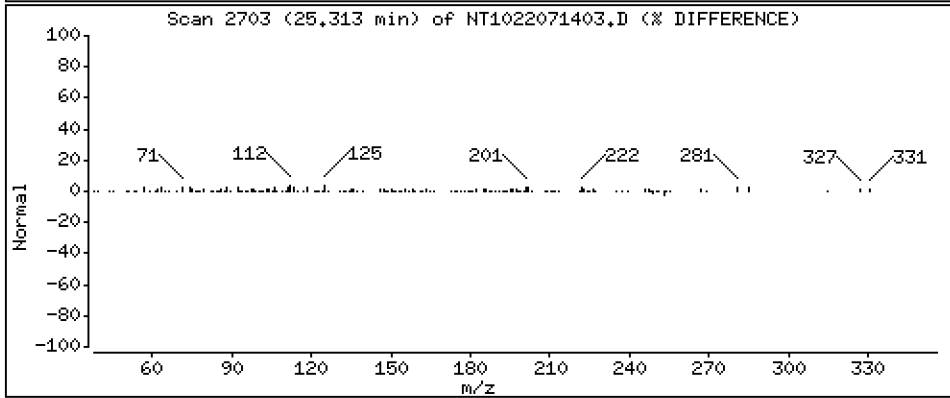
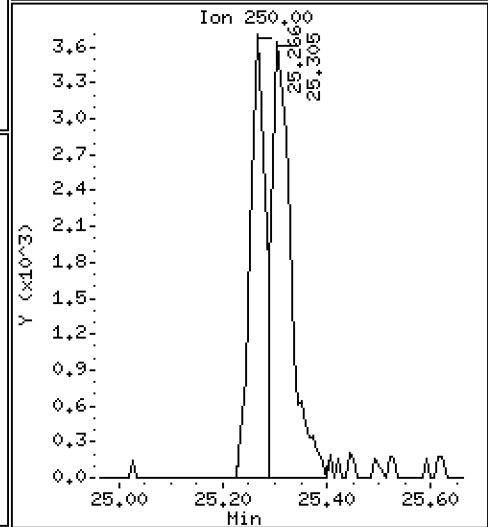
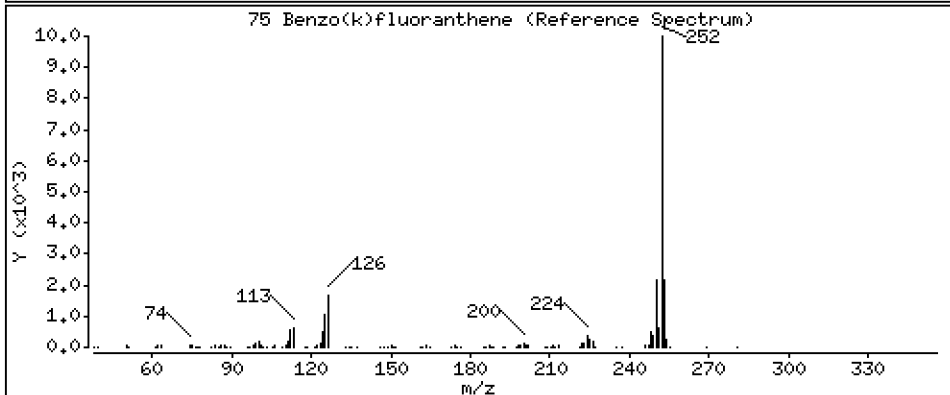
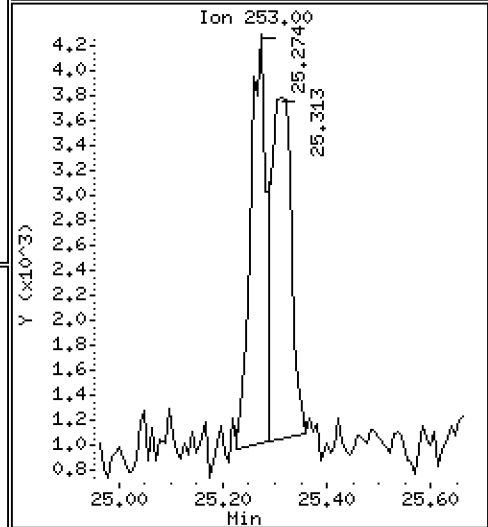
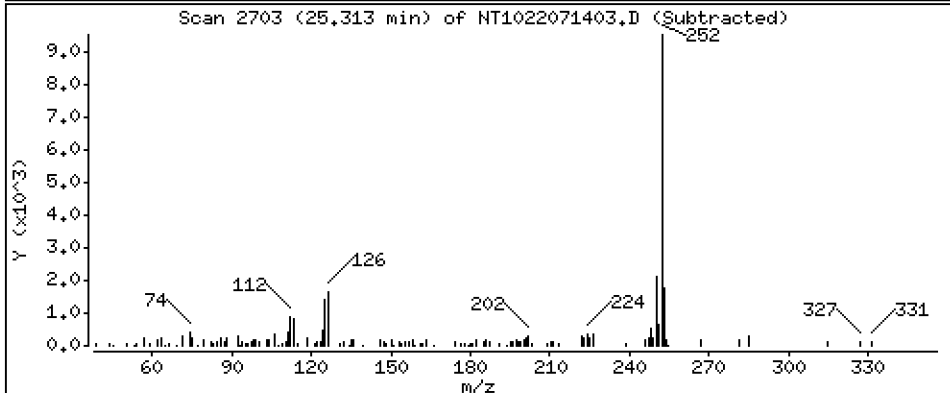
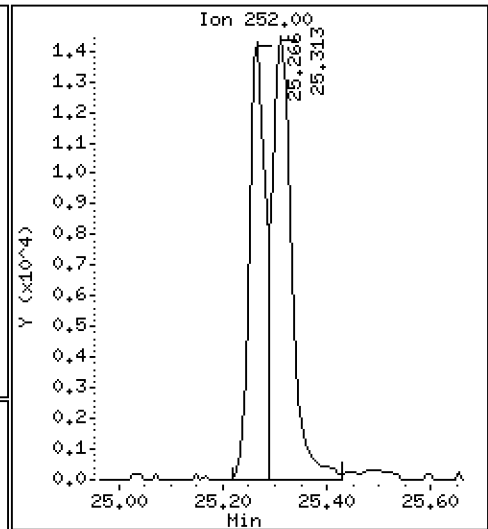
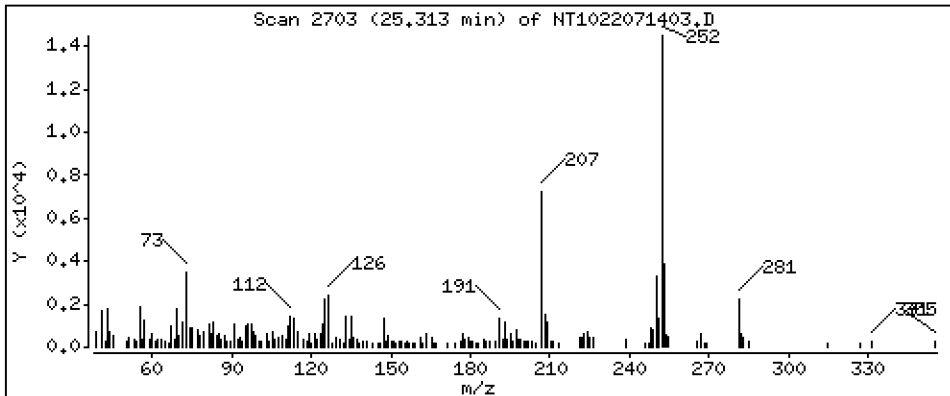
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,5849 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

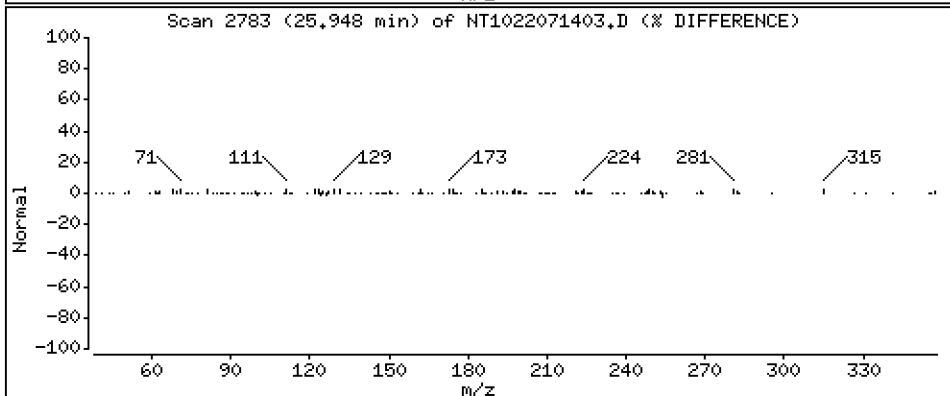
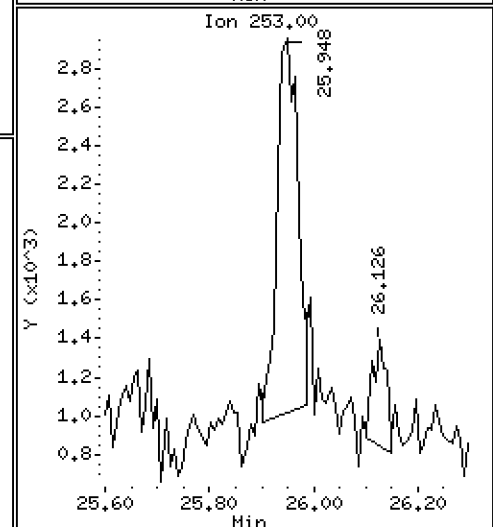
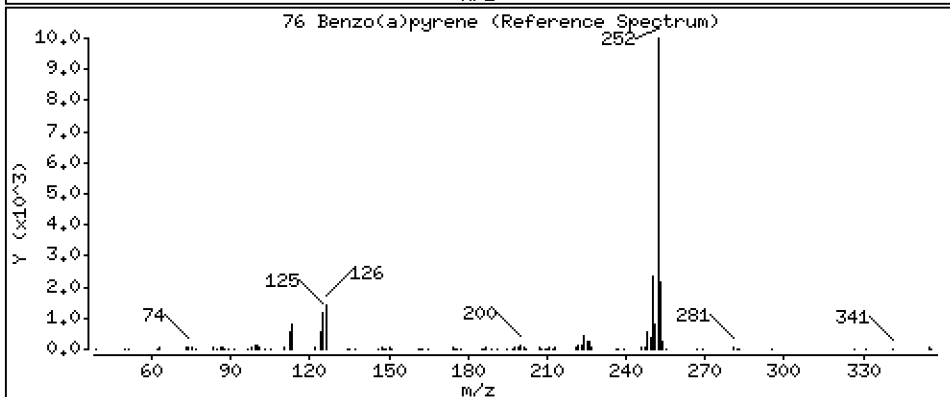
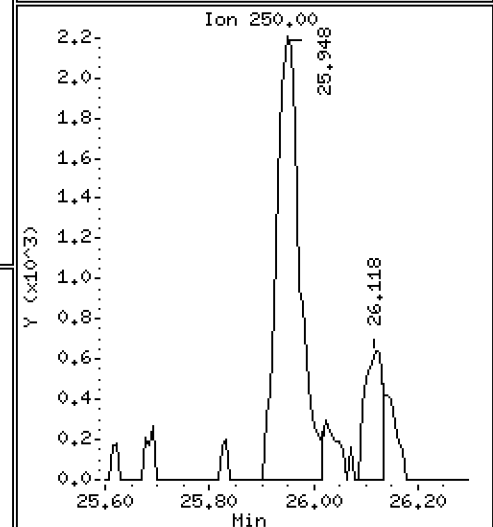
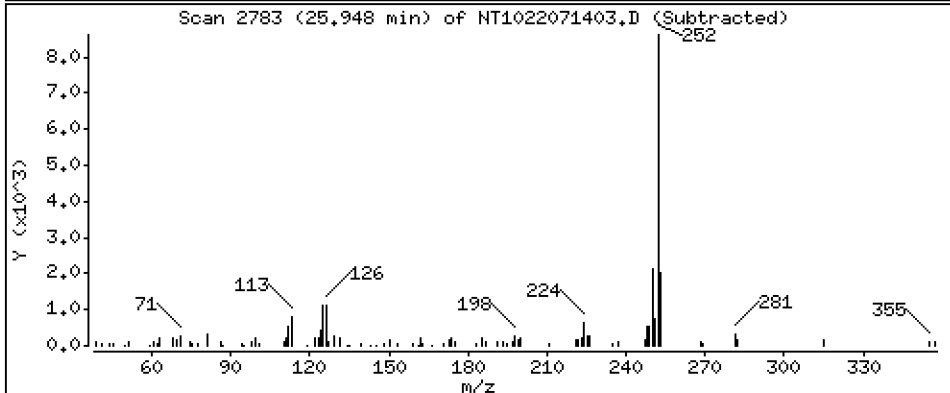
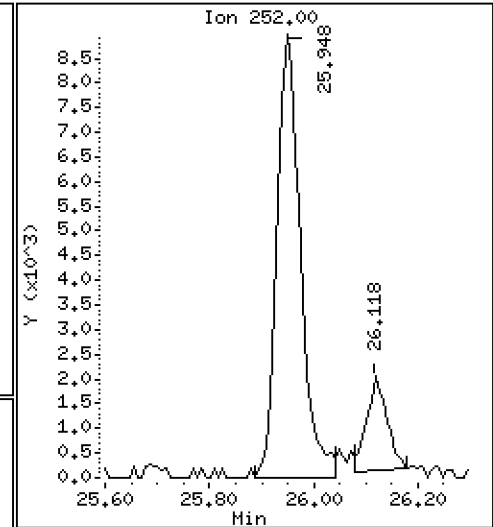
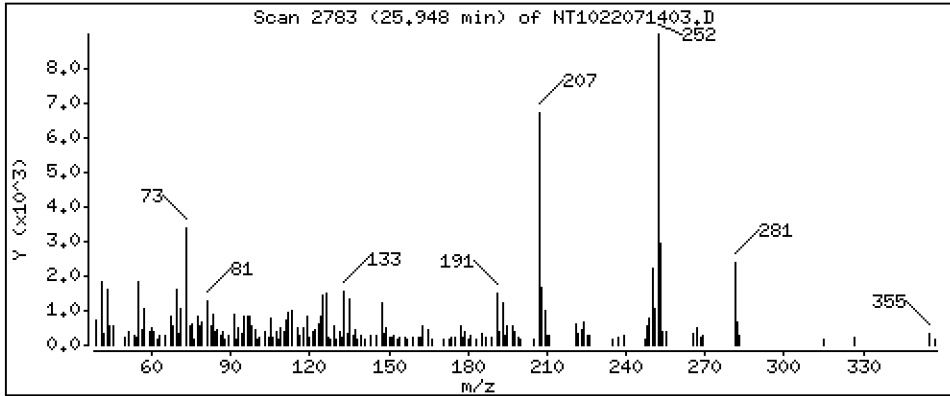
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5017 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

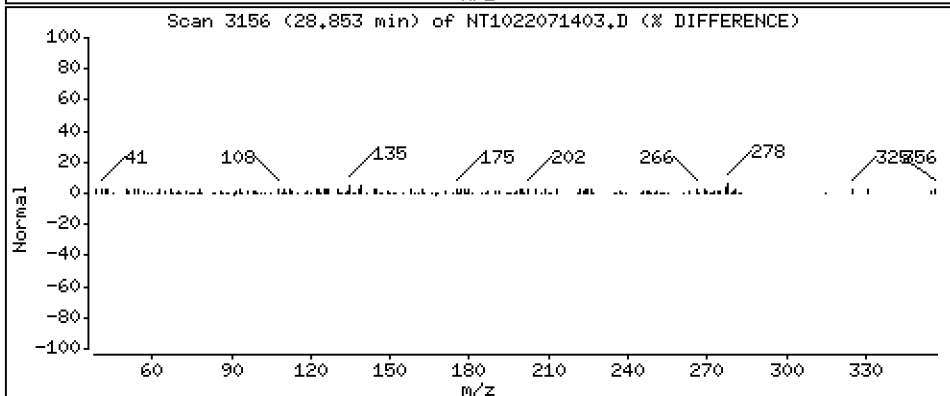
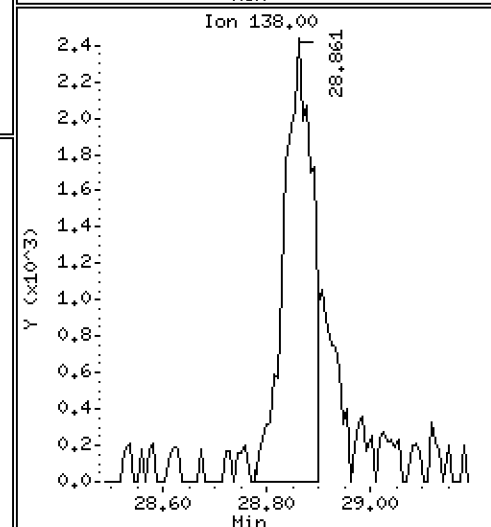
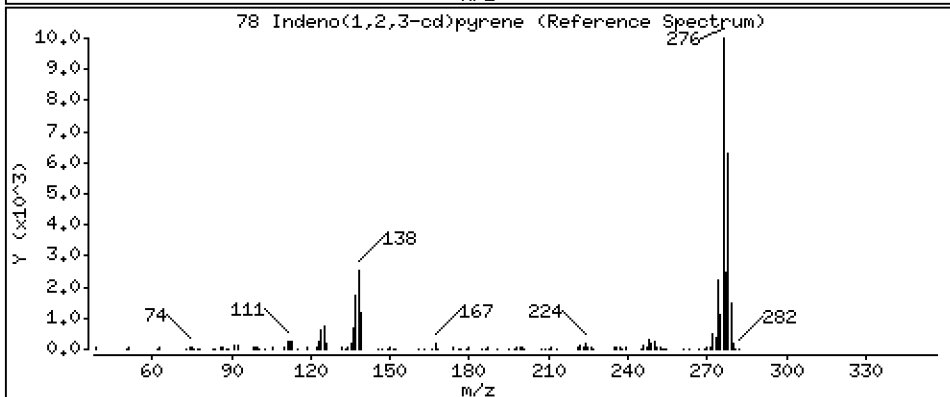
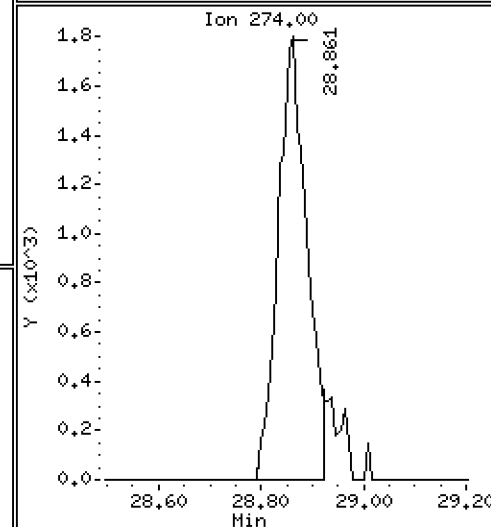
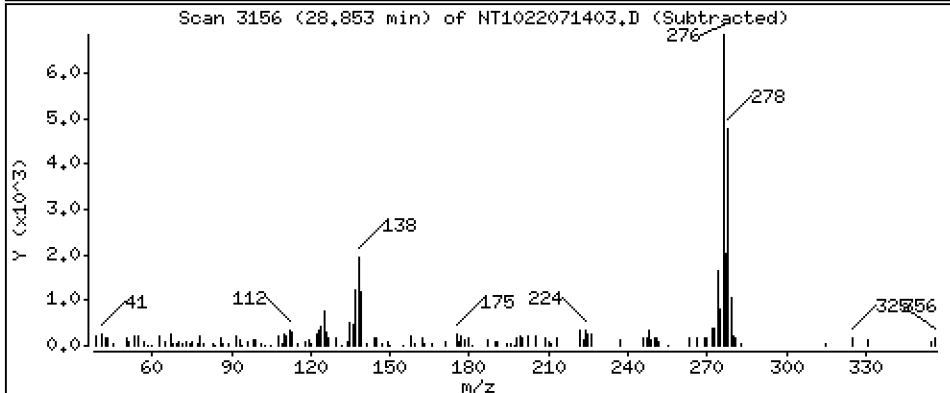
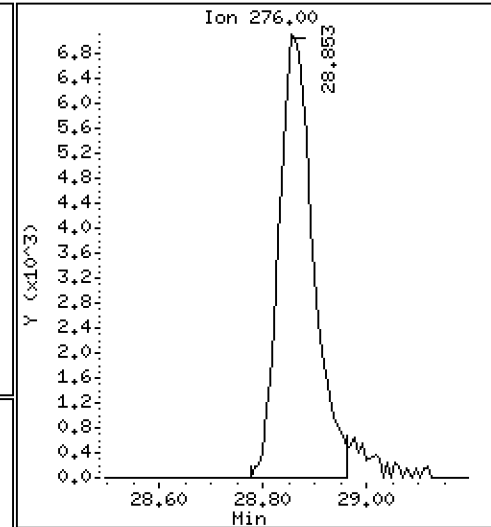
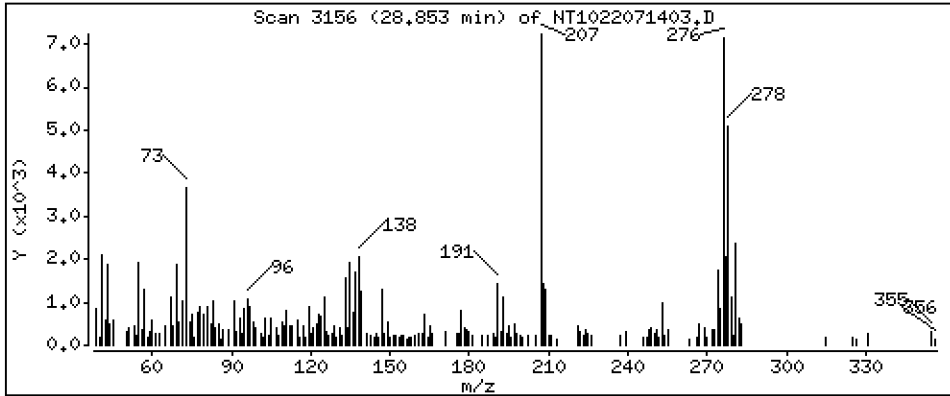
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 0.5554 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

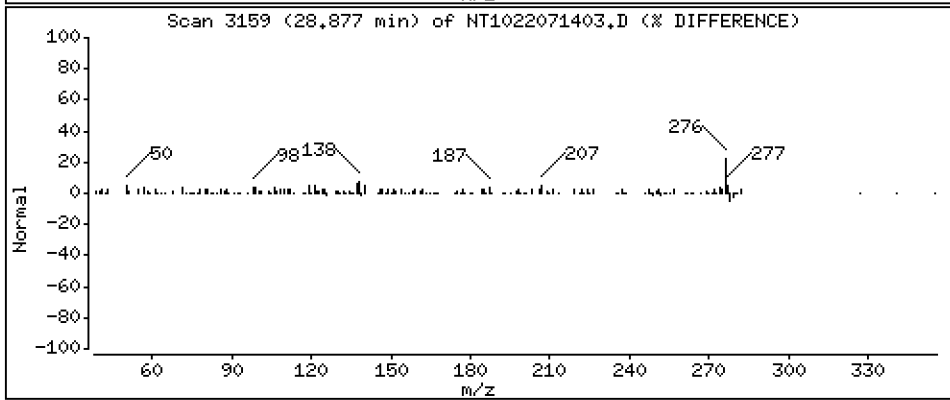
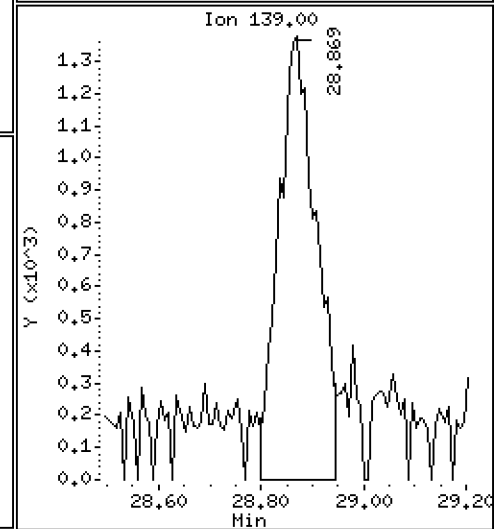
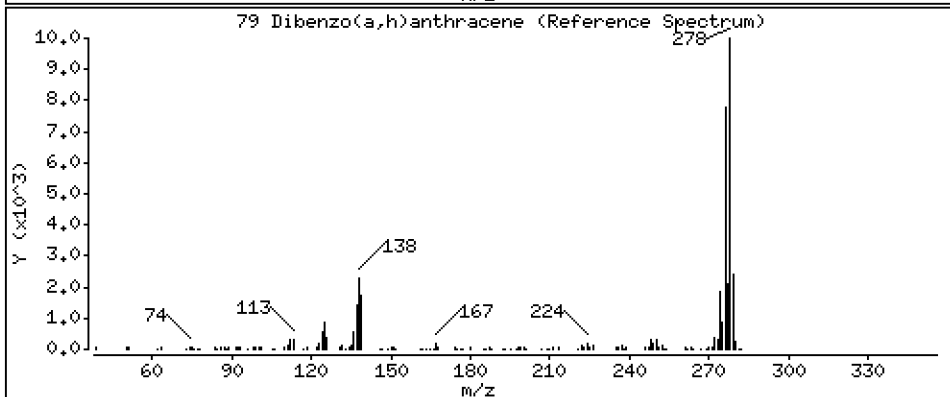
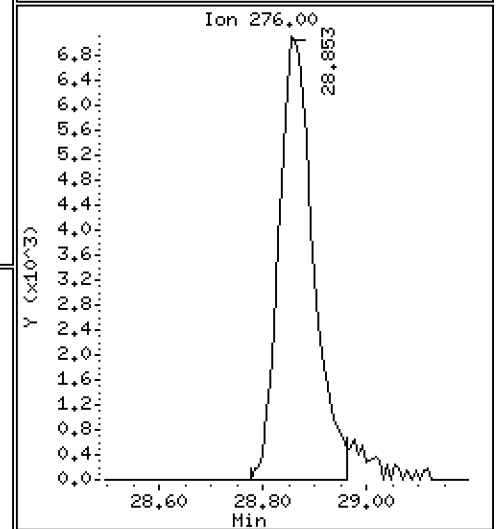
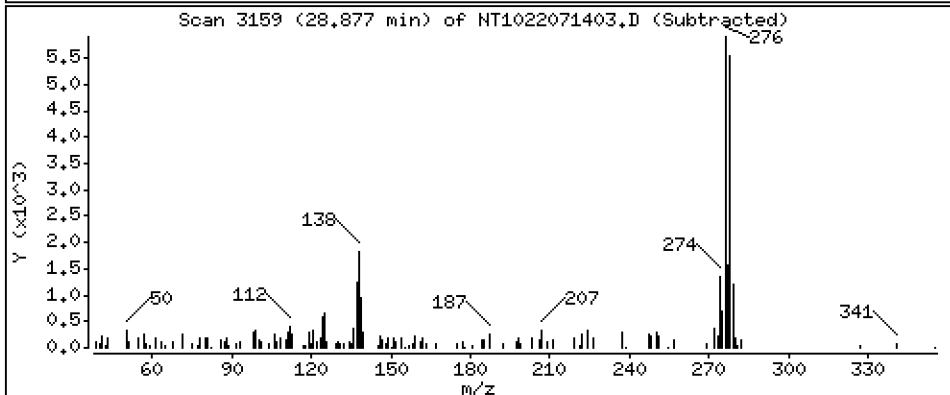
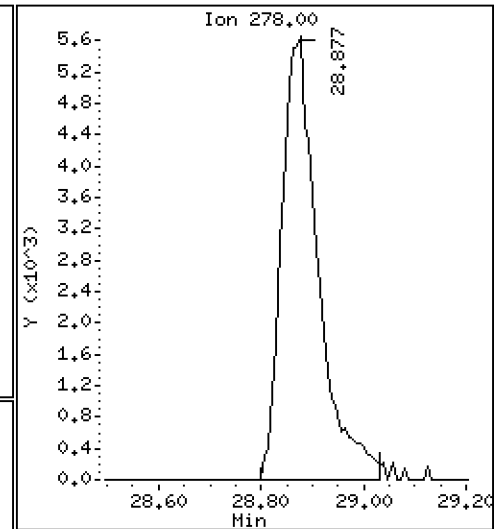
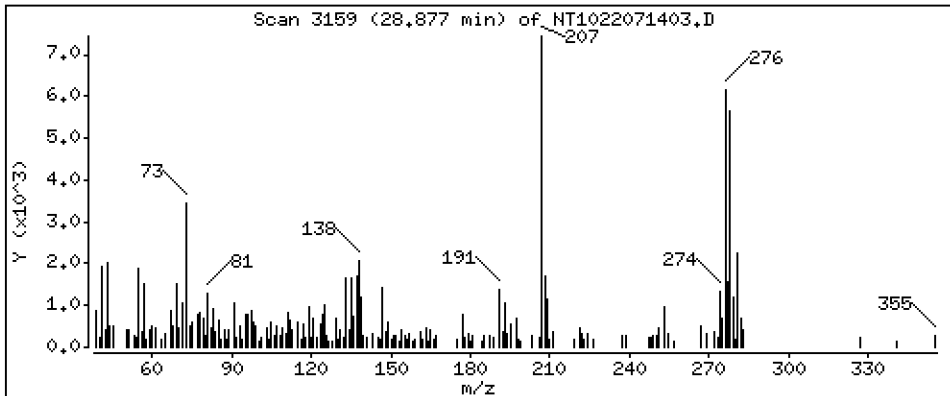
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,6182 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

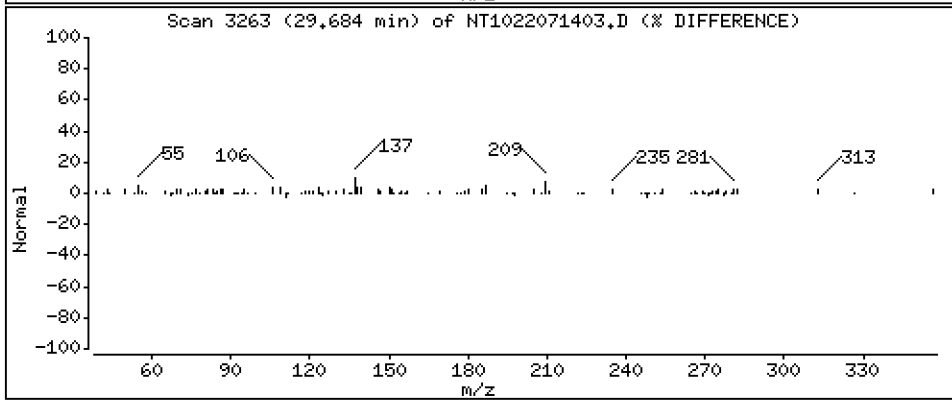
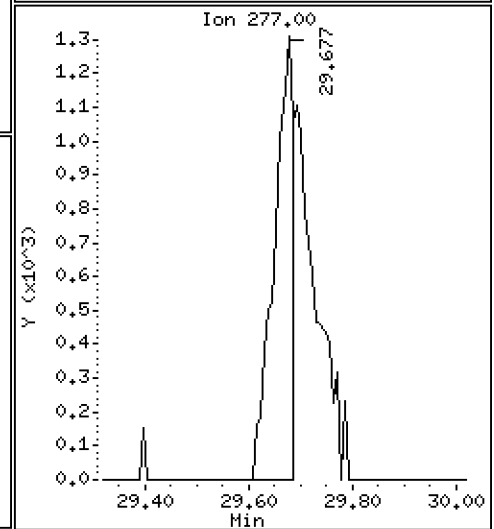
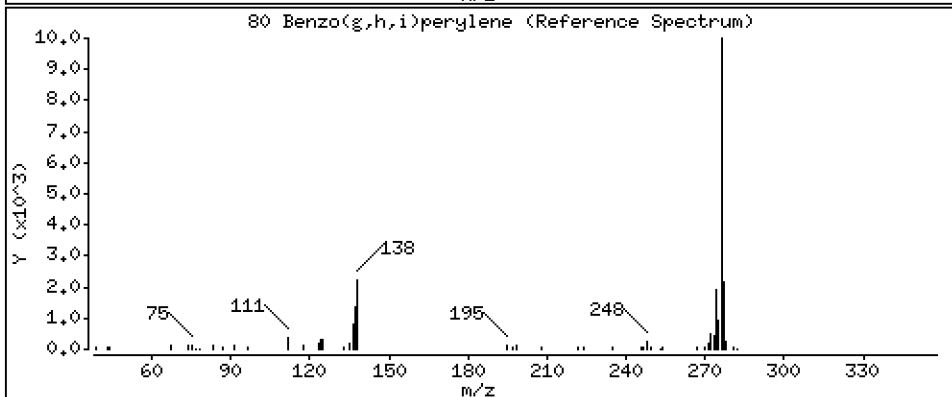
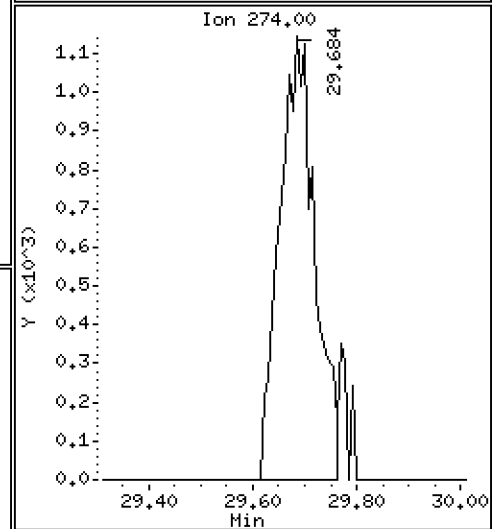
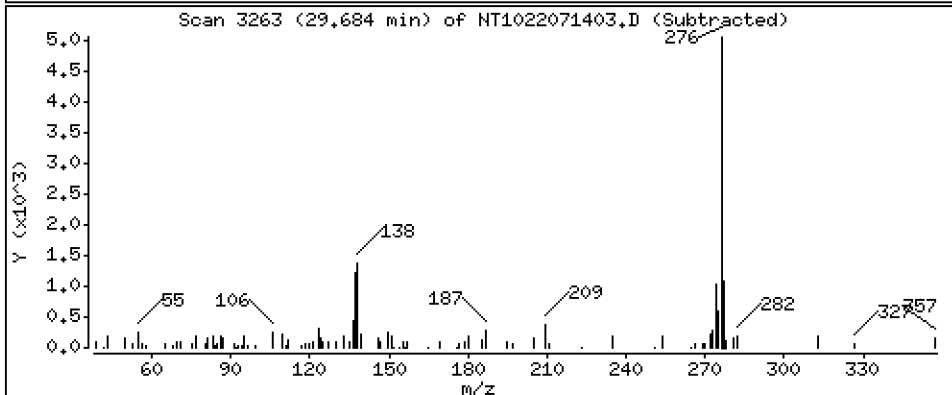
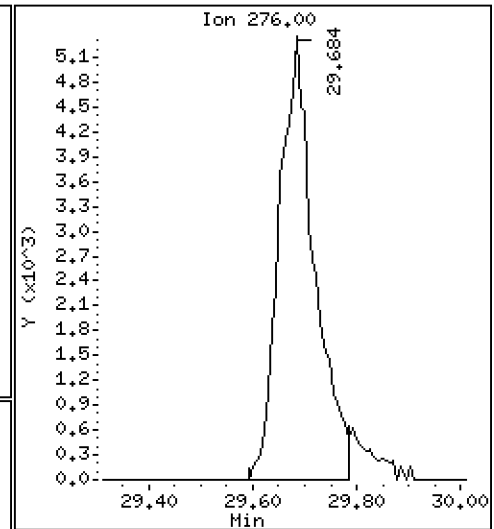
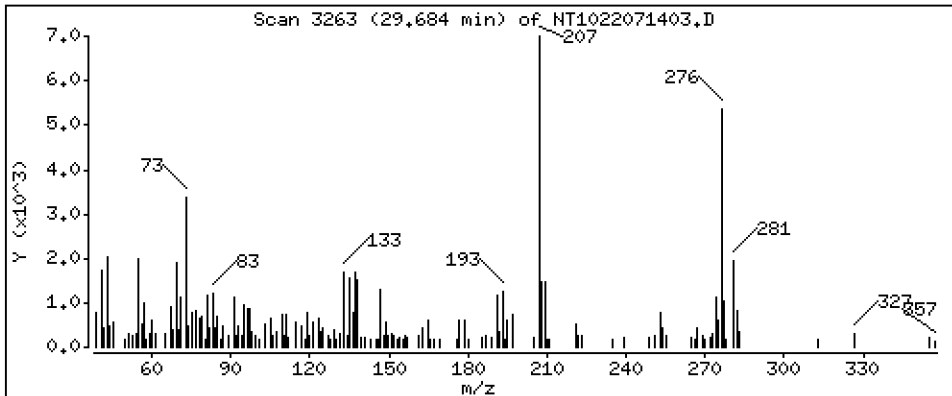
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,5389 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

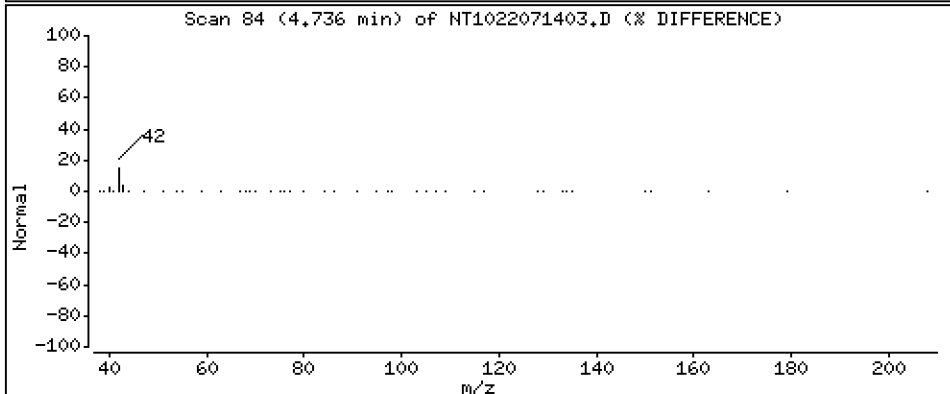
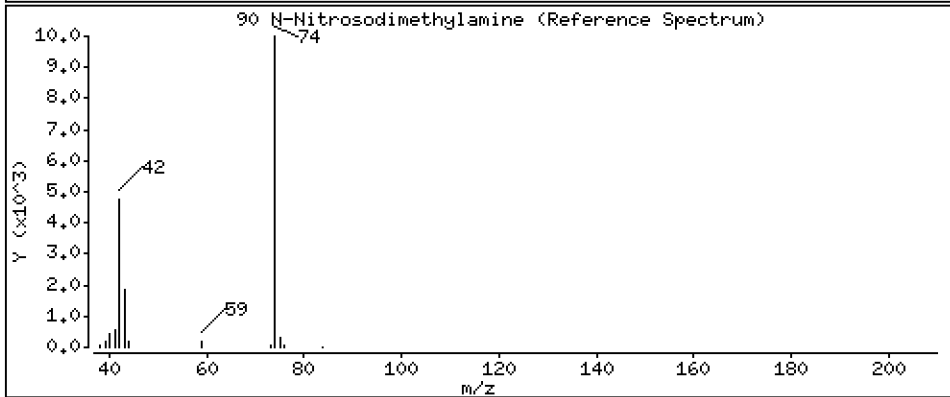
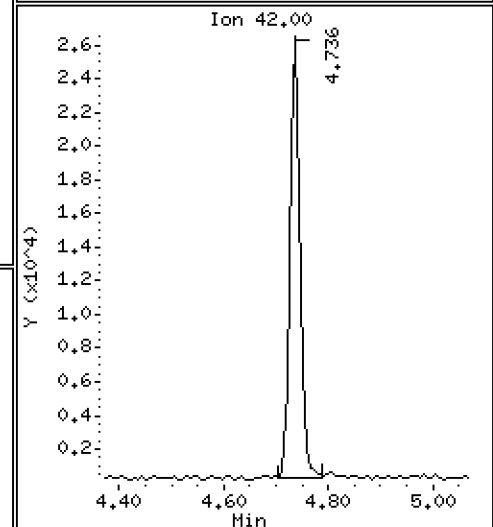
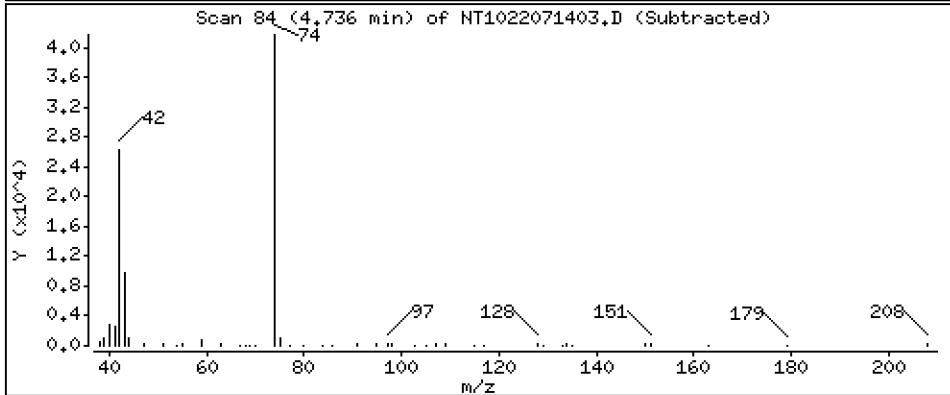
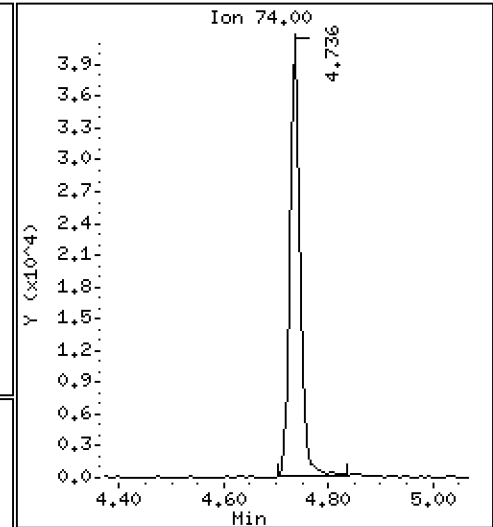
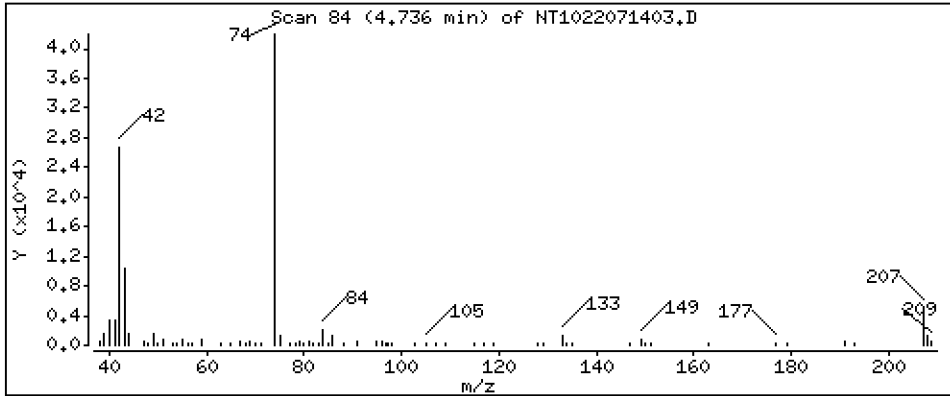
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 1,033 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

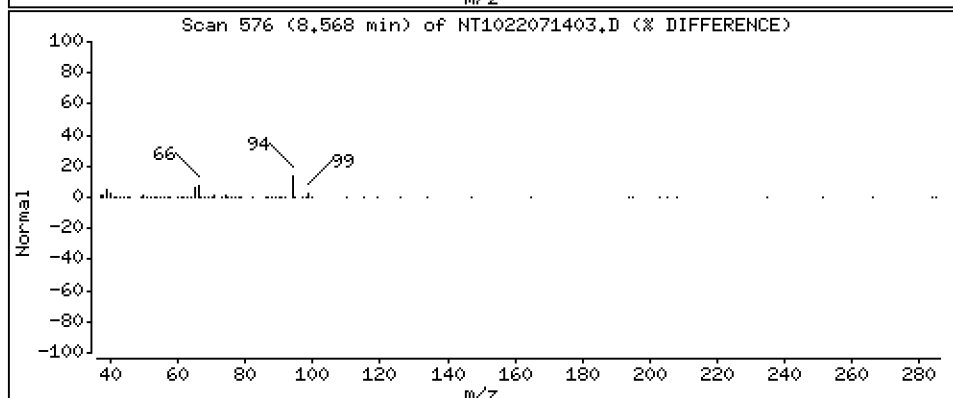
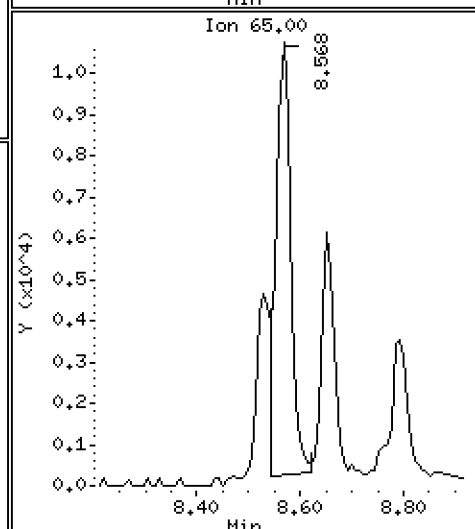
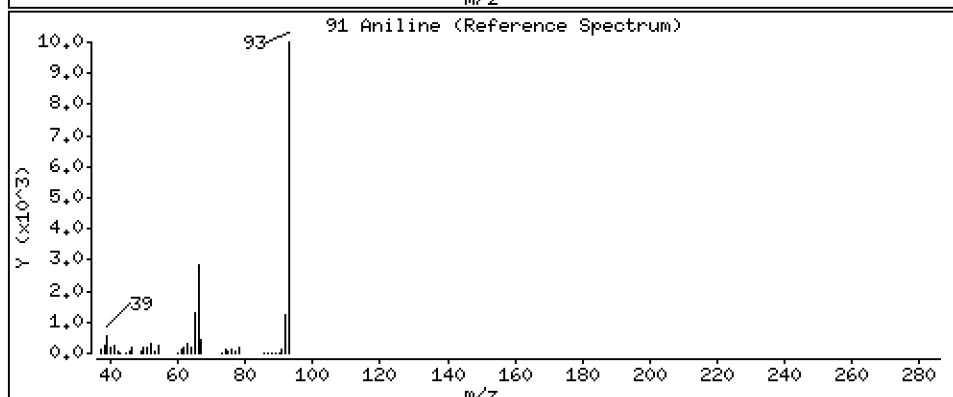
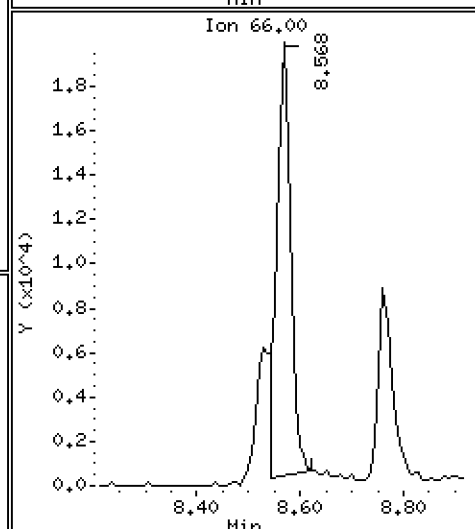
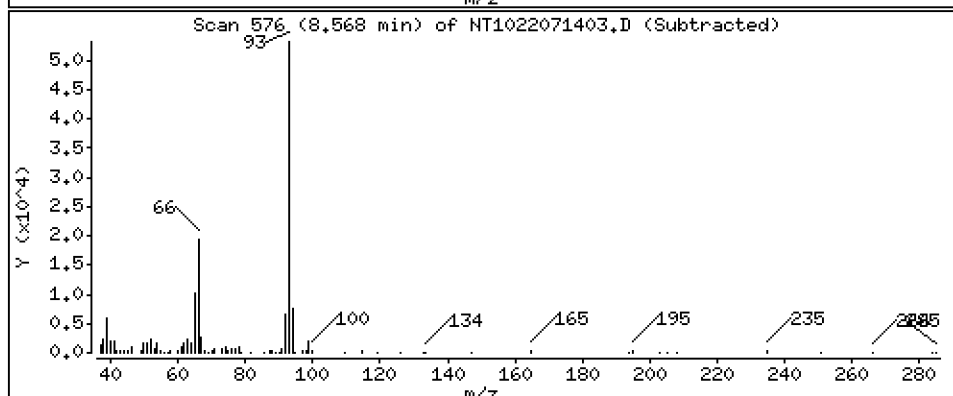
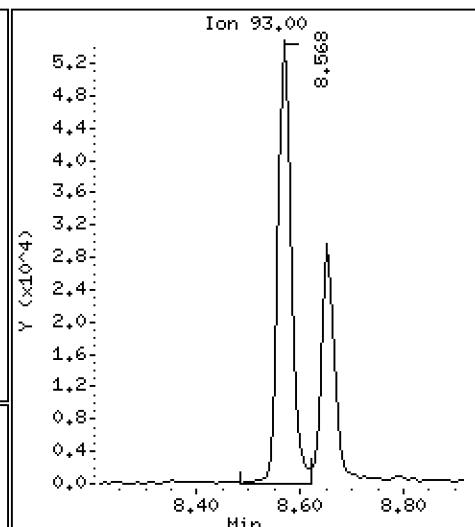
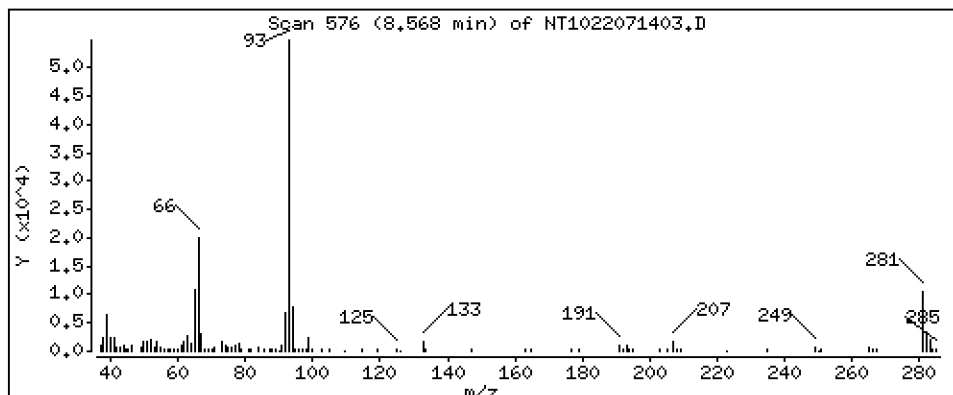
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,8644 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

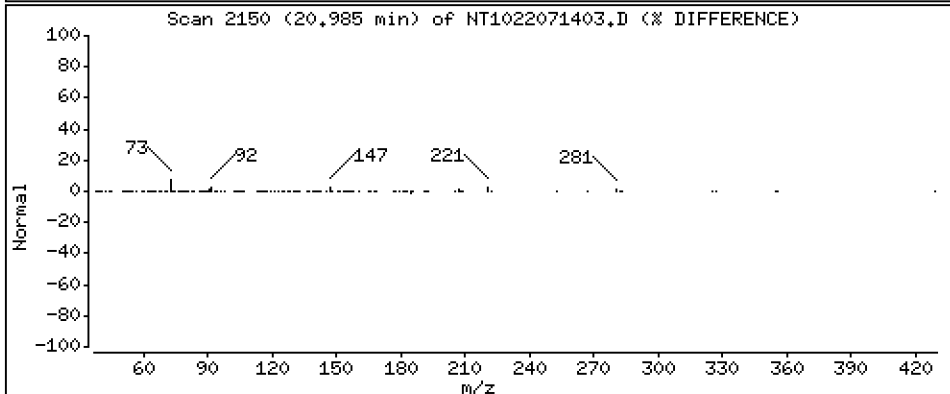
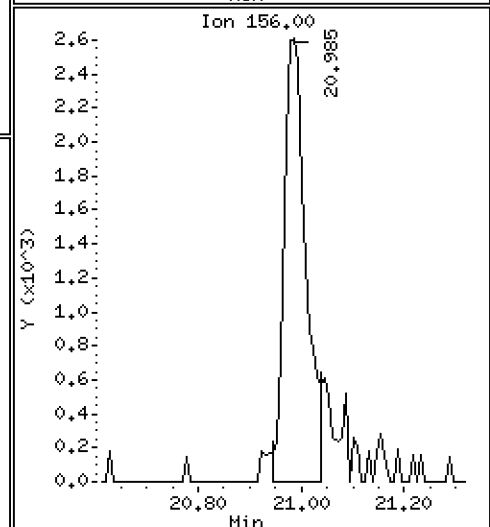
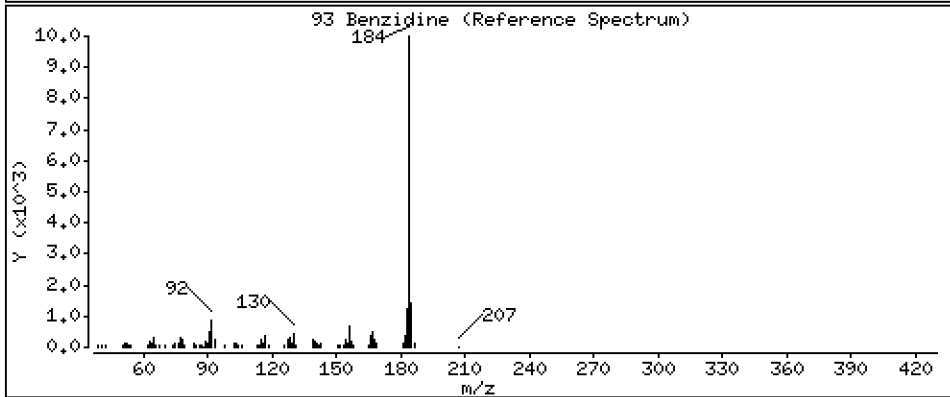
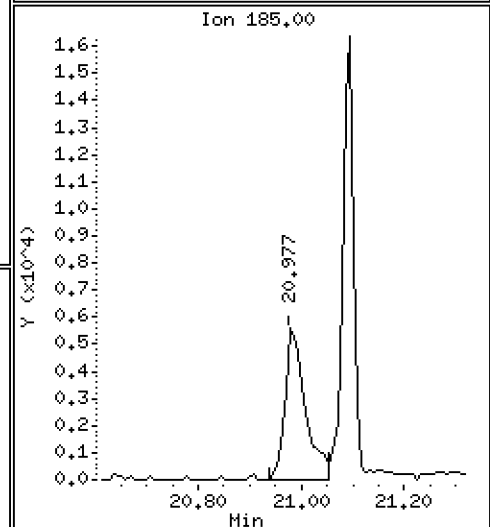
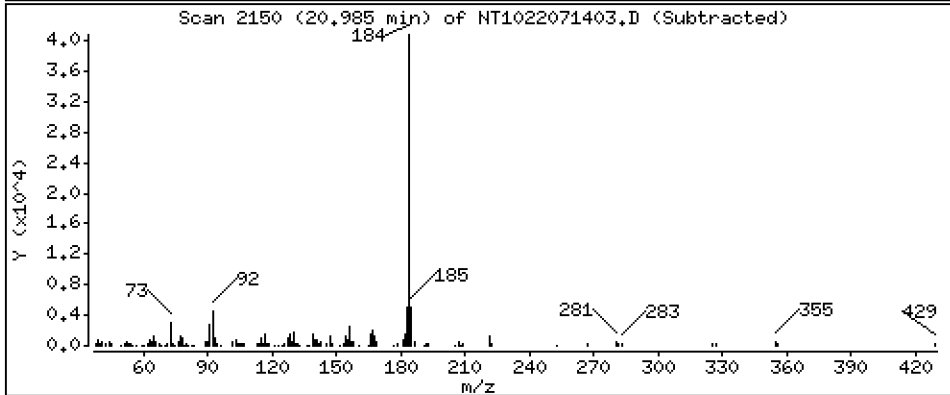
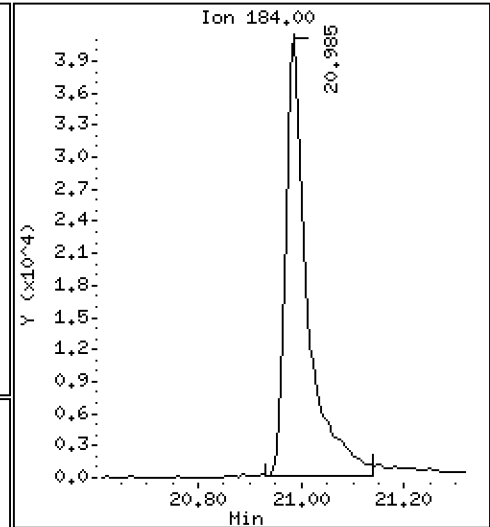
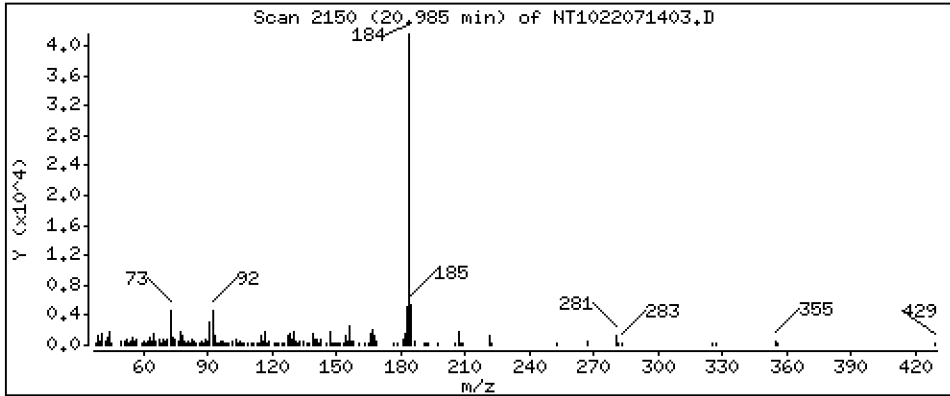
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,389 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

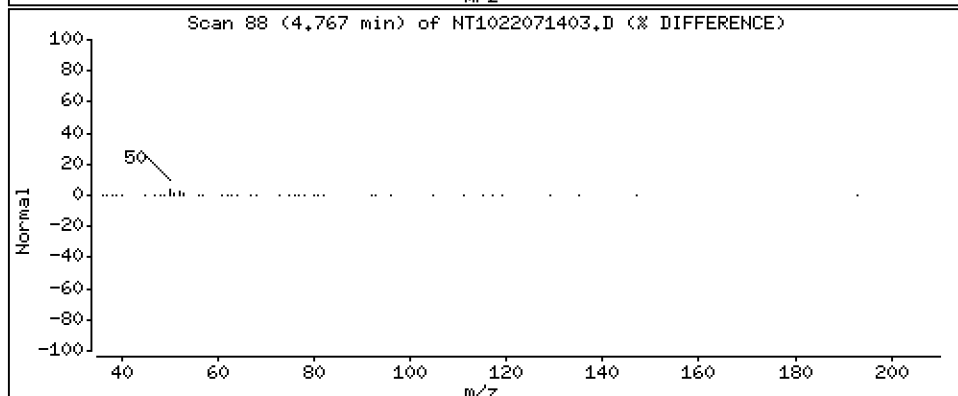
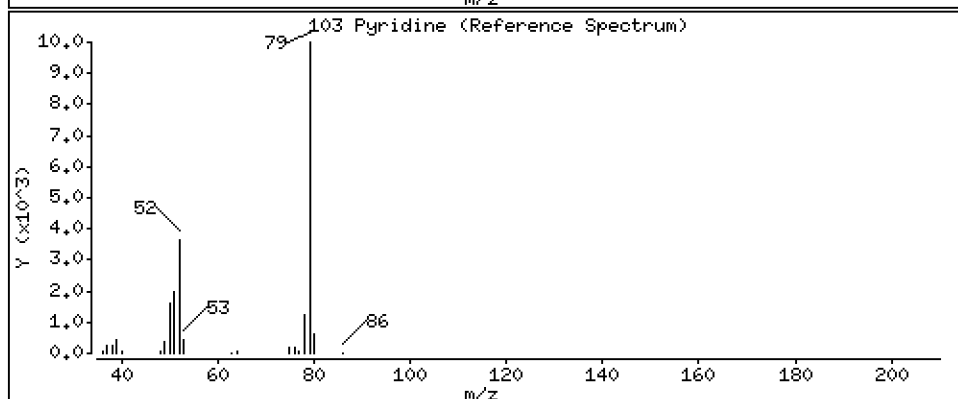
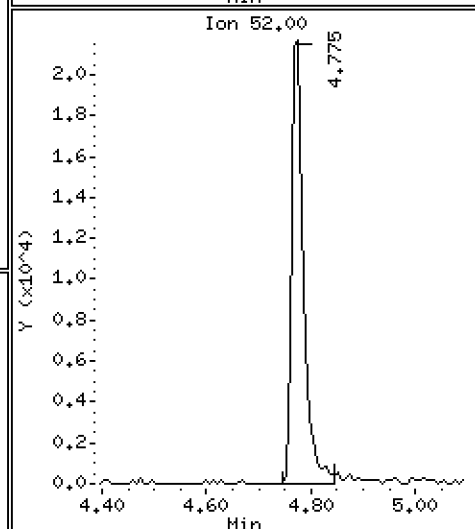
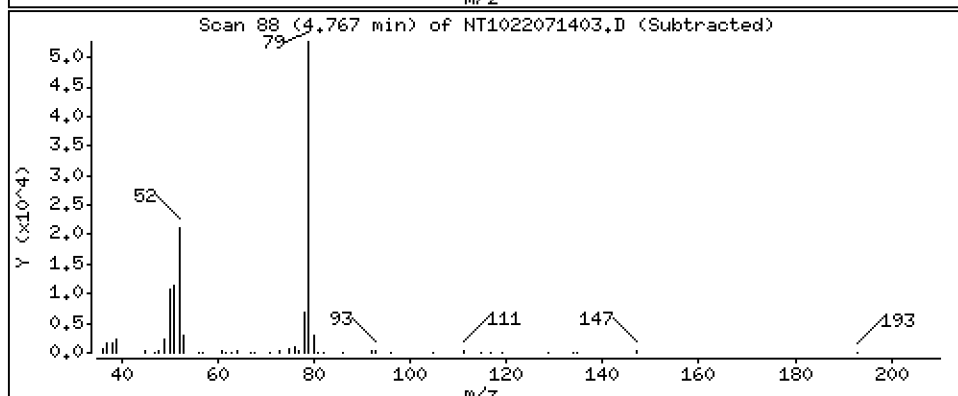
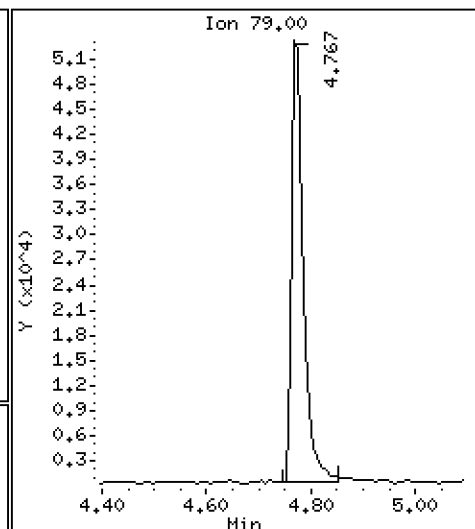
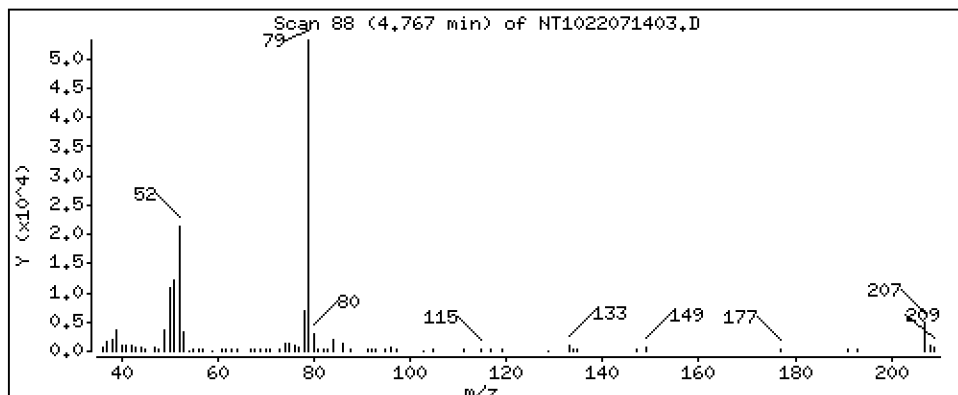
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,5537 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

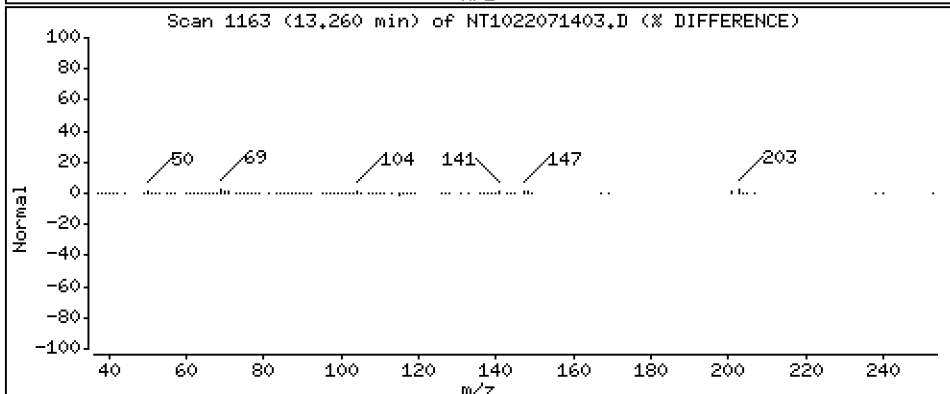
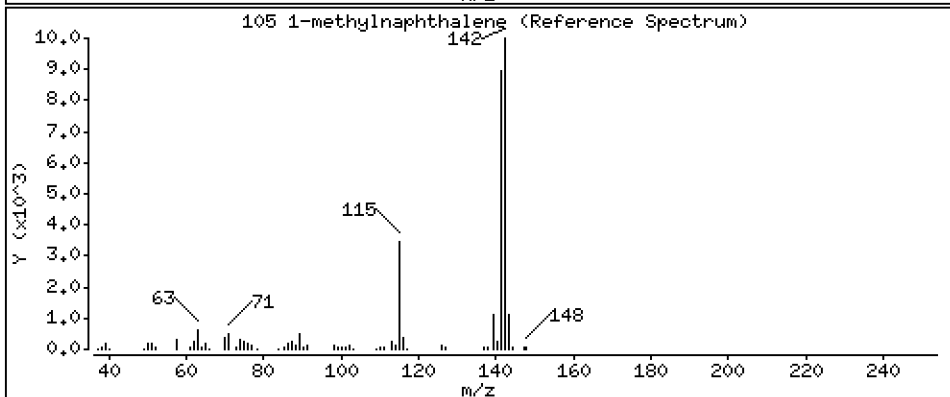
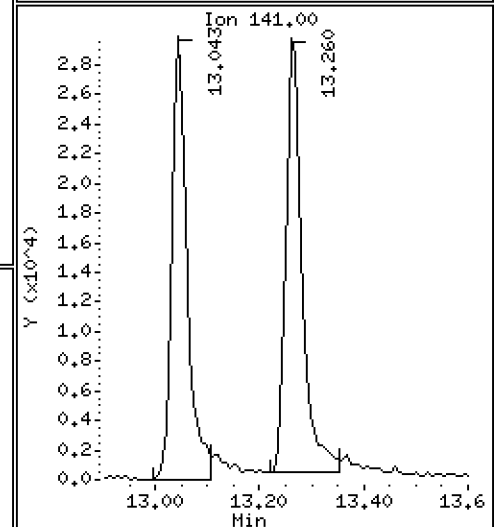
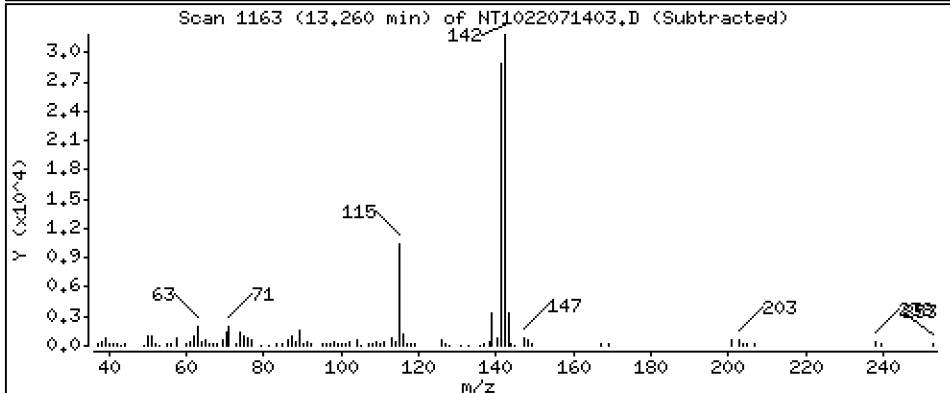
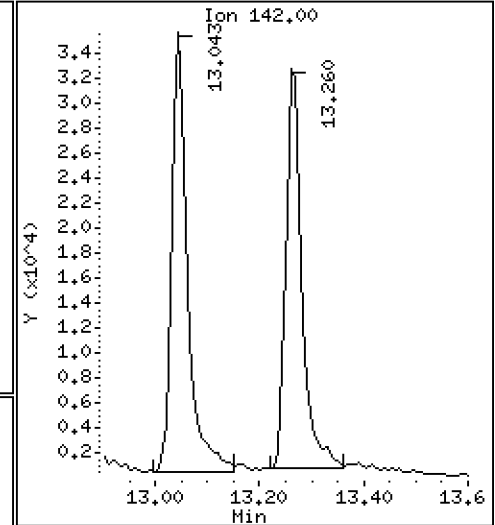
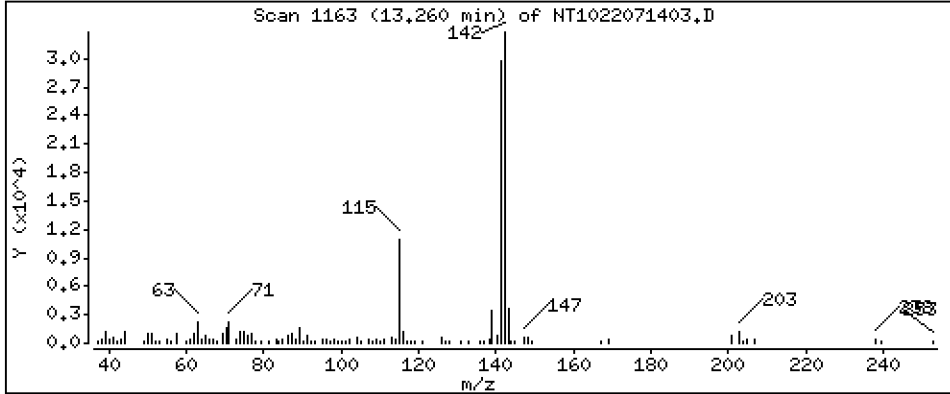
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,3902 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

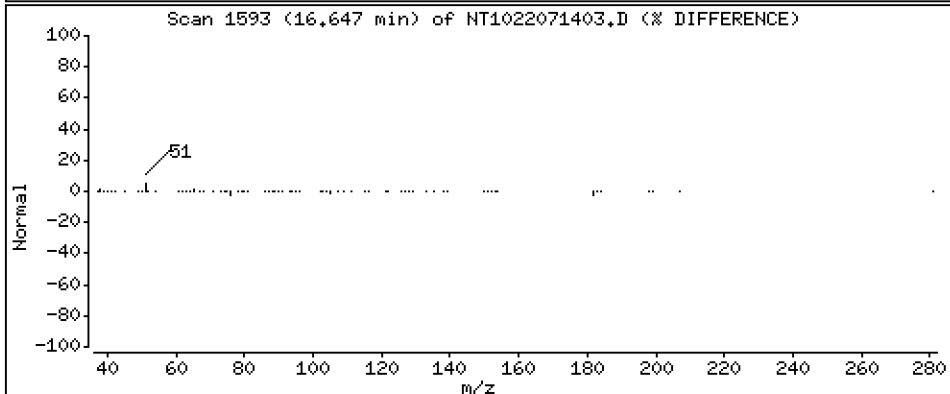
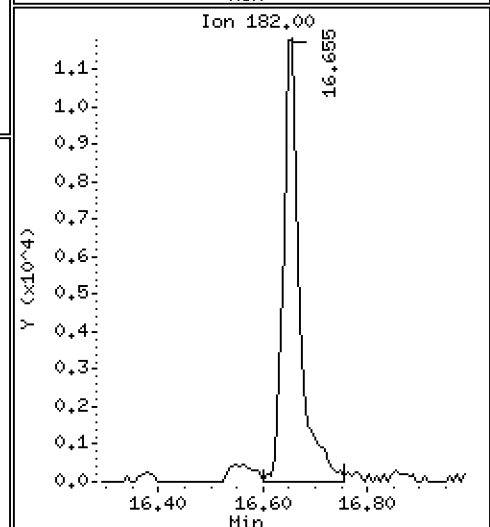
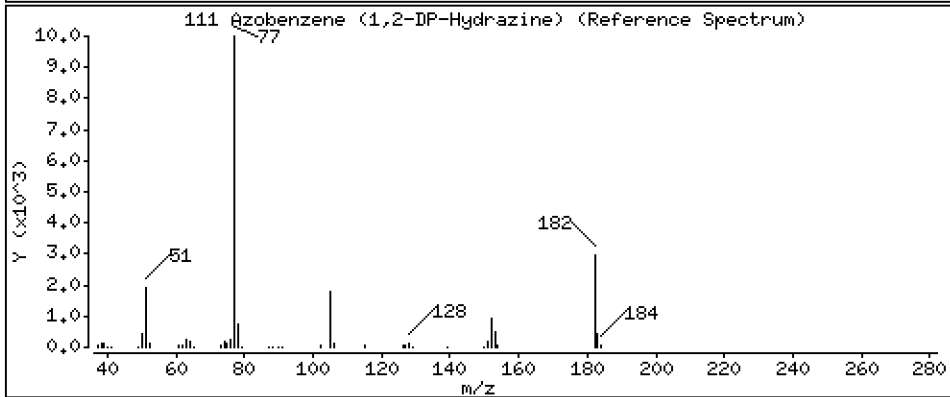
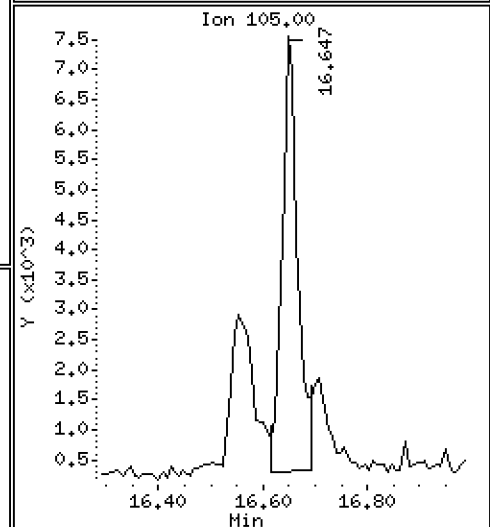
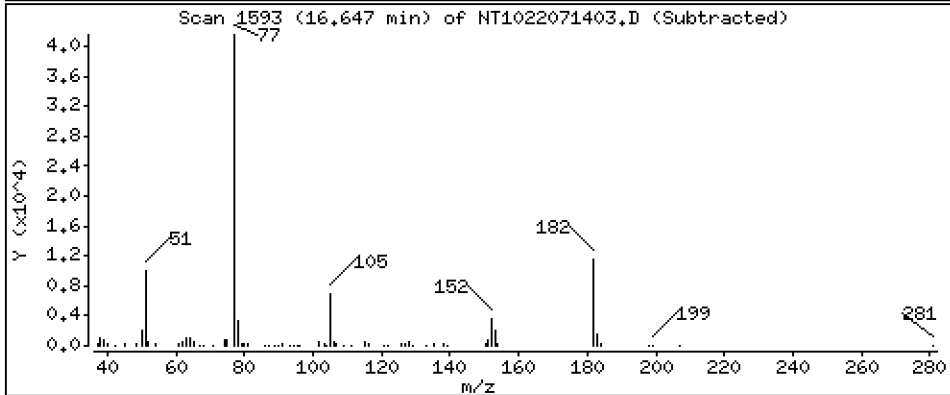
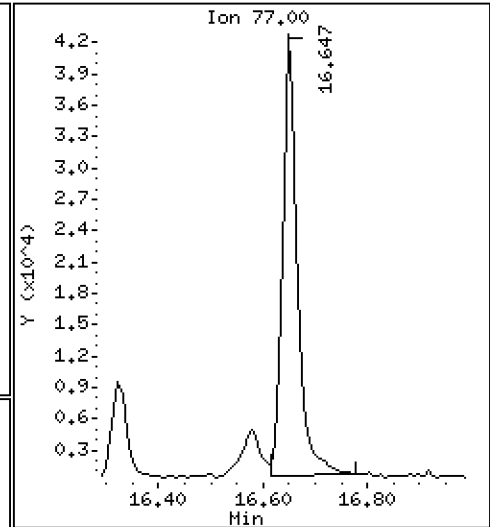
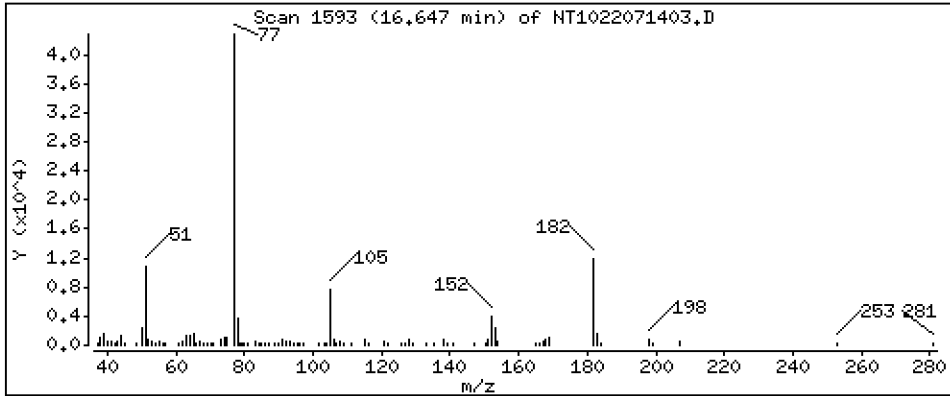
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5495 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

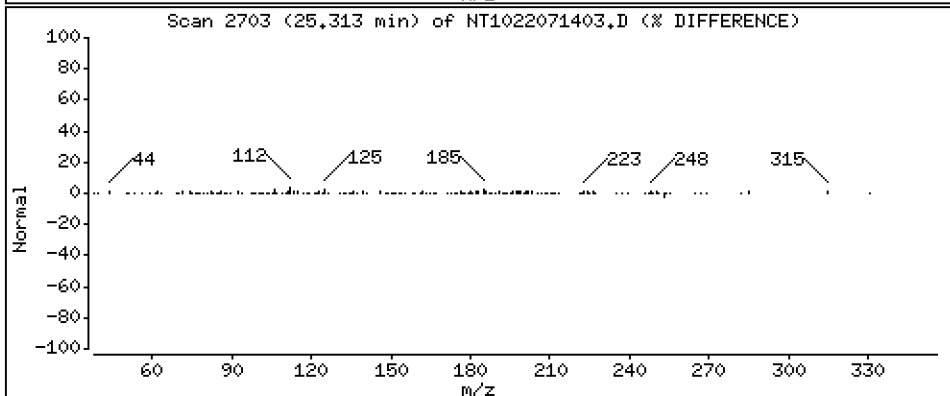
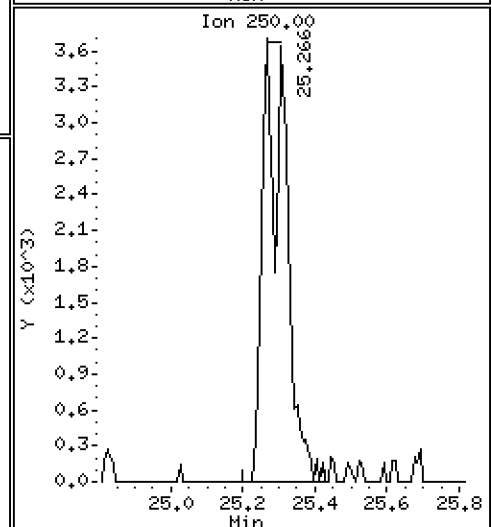
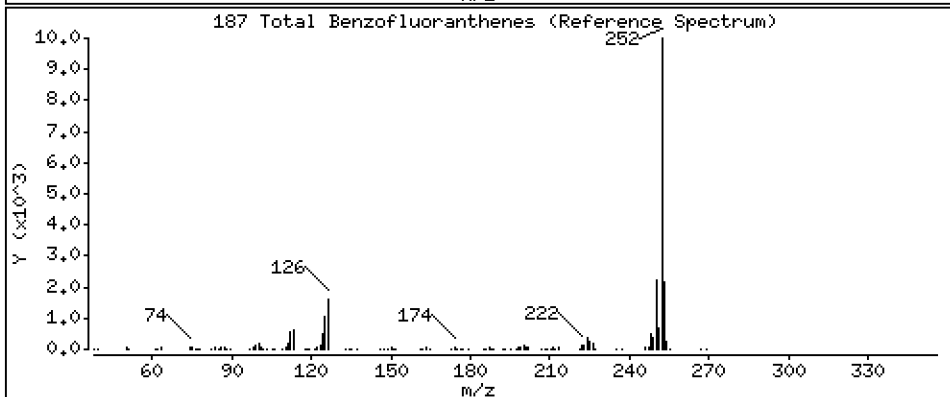
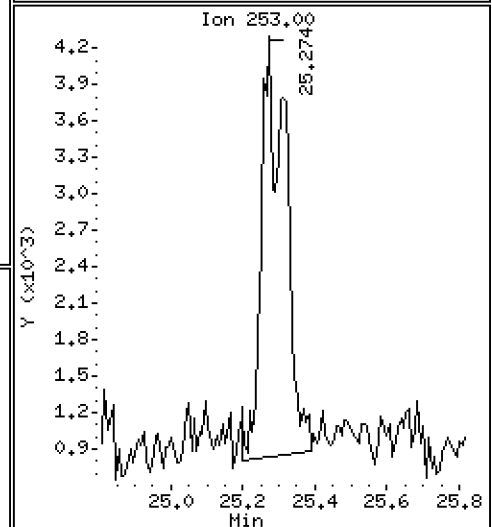
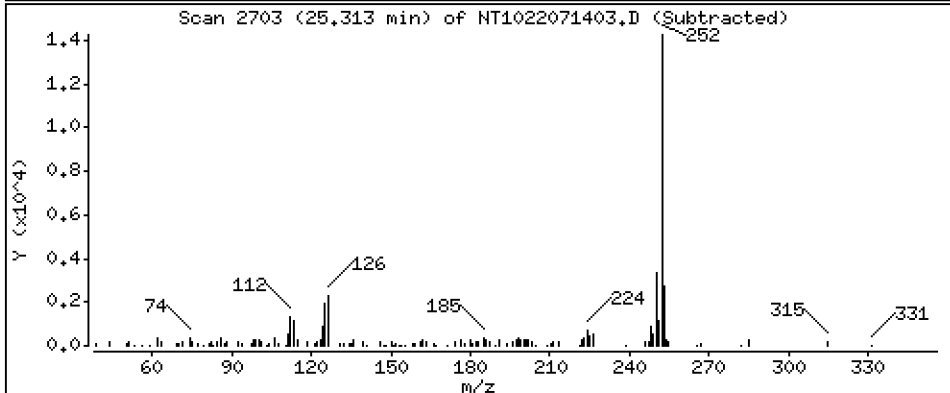
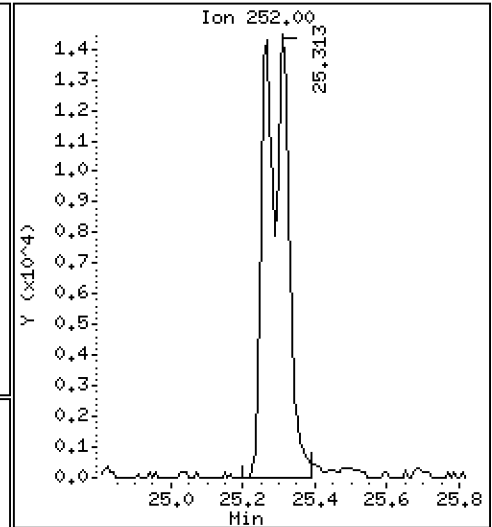
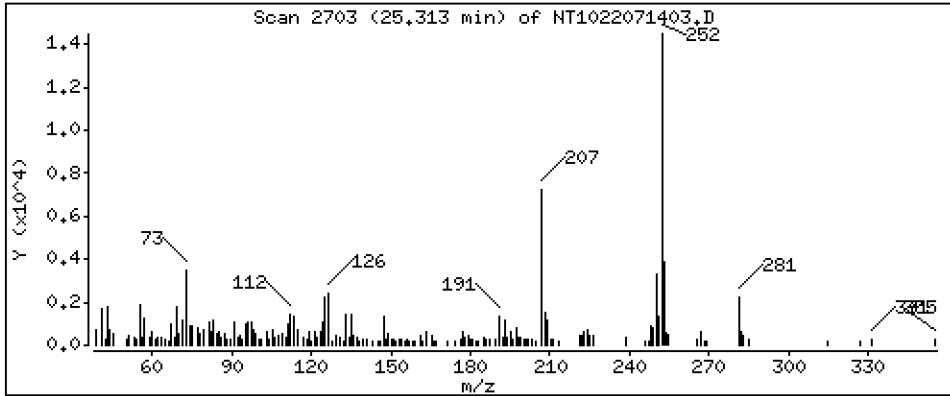
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,049 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

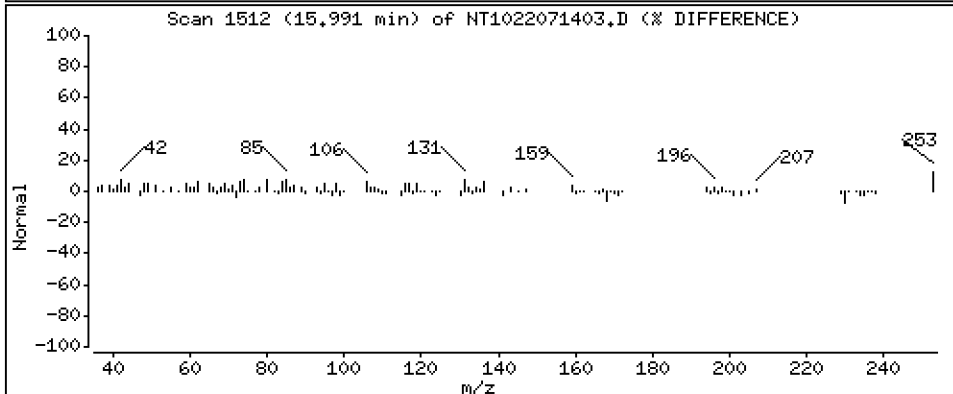
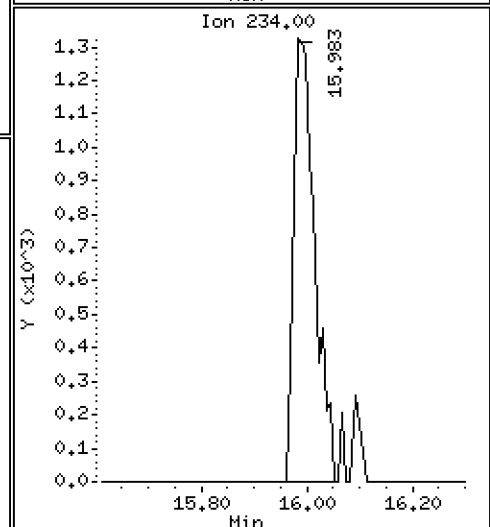
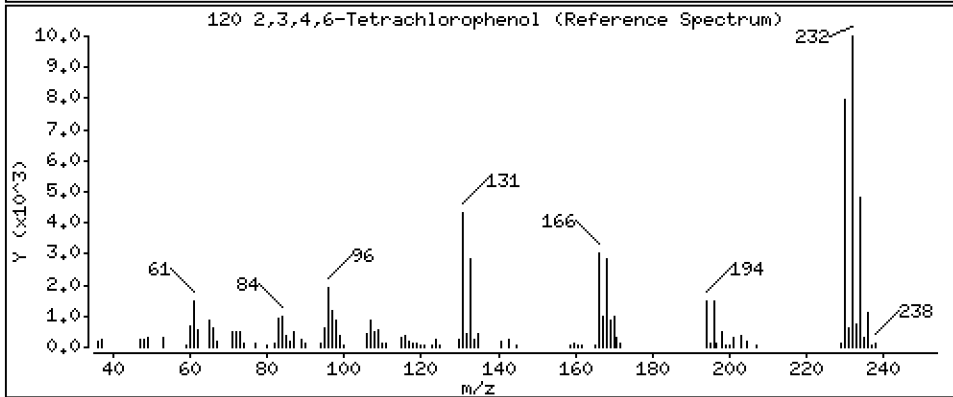
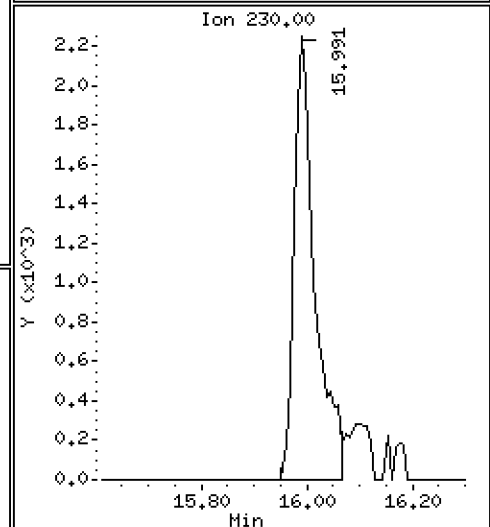
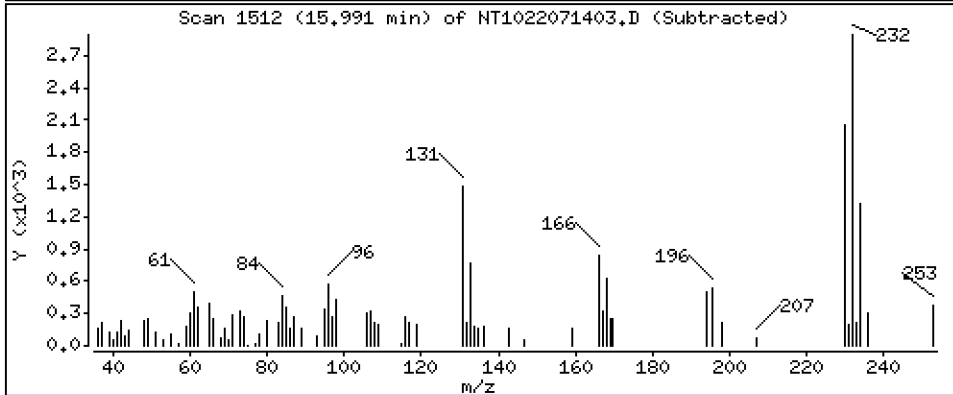
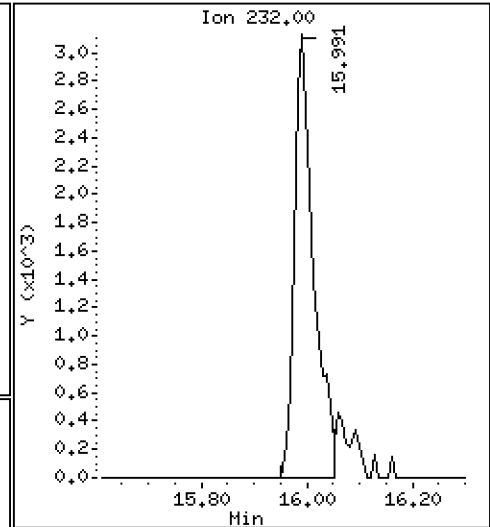
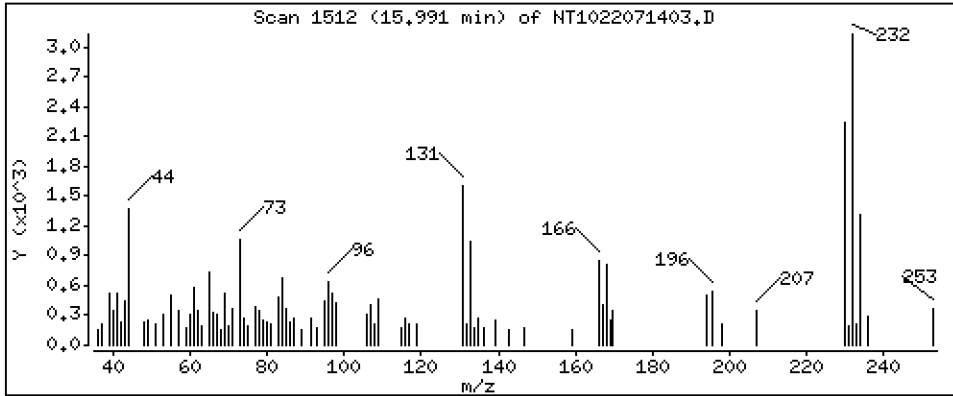
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0.2460 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071403.D
 Lab Smp Id: SKG0139-LCV1
 Inj Date : 14-JUL-2022 15:00
 Operator : VTS
 Smp Info : SKG0139-LCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 14-Jul-2022 14:47 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.914	6.906	(0.759)	68653	0.81136	0.8114
\$ 2 Phenol-d5	99		8.505	8.490	(0.934)	69055	0.55002	0.5500
3 Phenol	94		8.529	8.513	(0.936)	55541	0.50768	0.5077
\$ 5 2-Chlorophenol-d4	132		8.760	8.753	(0.962)	64400	0.74695	0.7469
4 Bis(2-Chloroethyl)ether	93		8.652	8.645	(0.950)	47309	0.60086	0.6009
6 2-Chlorophenol	128		8.791	8.776	(0.965)	45960	0.52695	0.5269
7 1,3-Dichlorobenzene	146		9.047	9.039	(0.993)	57811	0.61282	0.6128
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.101	(1.000)	231724	4.00000	
9 1,4-Dichlorobenzene	146		9.140	9.132	(1.003)	39182	0.52692	0.5269
\$ 10 1,2-Dichlorobenzene-d4	152		9.473	9.466	(1.040)	30595	0.57588	0.5759
12 1,2-Dichlorobenzene	146		9.497	9.489	(1.043)	47531	0.60211	0.6021
11 Benzyl alcohol	108		9.396	9.380	(1.032)	16028	0.36777	0.3678
14 2,2'-oxybis(1-Chloropropane)	121		9.675	9.668	(1.062)	13423	0.71902	0.7190 (M)
13 2-Methylphenol	108		9.644	9.613	(1.059)	26709	0.39596	0.3960
17 Hexachloroethane	117		10.079	10.079	(1.107)	17272	0.52106	0.5211
16 N-Nitroso-di-n-propylamine	70		9.939	9.924	(1.091)	24085	0.51341	0.5134
15 4-Methylphenol	108		9.924	9.885	(1.089)	22416	0.31096	0.3110 (M)
\$ 18 Nitrobenzene-d5	82		10.211	10.195	(0.881)	35955	0.48083	0.4808
19 Nitrobenzene	77		10.242	10.227	(0.883)	36316	0.48185	0.4818
20 Isophorone	82		10.684	10.677	(0.921)	55776	0.51157	0.5116
21 2-Nitrophenol	139		10.876	10.859	(0.938)	19466	0.40891	0.4089
22 2,4-Dimethylphenol	107		10.961	10.927	(0.945)	55267	0.95568	0.9557
23 Bis(2-Chloroethoxy)methane	93		11.131	11.106	(0.960)	37590	0.57386	0.5739
24 Benzoic acid	105		11.148	11.165	(0.961)	38265	1.28219	1.282 (M)
25 2,4-Dichlorophenol	162		11.419	11.335	(0.985)	49065	0.83480	0.8348 (M)
26 1,2,4-Trichlorobenzene	180		11.511	11.504	(0.993)	40076	0.63525	0.6352
* 27 Naphthalene-d8	136		11.596	11.589	(1.000)	702753	4.00000	
28 Naphthalene	128		11.635	11.627	(1.003)	95494	0.53095	0.5309
29 4-Chloroaniline	127		11.789	11.766	(1.017)	58118	0.73182	0.7318
30 Hexachlorobutadiene	225		11.990	11.990	(1.034)	20232	0.67224	0.6722
31 4-Chloro-3-methylphenol	107		12.795	12.749	(1.103)	49103	0.70839	0.7084
32 2-Methylnaphthalene	142		13.043	13.027	(1.125)	77205	0.43191	0.4319
33 Hexachlorocyclopentadiene	237							Compound Not Detected.

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.700	13.662	(0.900)	35779	0.84139	0.8414
35 2,4,5-Trichlorophenol	196	13.809	13.755	(0.907)	38038	0.74492	0.7449
§ 36 2-Fluorobiphenyl	172	13.824	13.809	(0.908)	91406	0.53986	0.5399
37 2-Chloronaphthalene	162	14.041	14.026	(0.923)	80607	0.54004	0.5400
38 2-Nitroaniline	65	14.320	14.289	(0.941)	40066	1.00351	1.004
39 Dimethylphthalate	163	14.730	14.714	(0.968)	98919	0.75390	0.7539
40 Acenaphthylene	152	14.908	14.900	(0.980)	133960	0.61249	0.6125
41 2,6-Dinitrotoluene	165	14.877	14.862	(0.978)	35766	1.17367	1.174
* 42 Acenaphthene-d10	164	15.217	15.210	(1.000)	374154	4.00000	
43 3-Nitroaniline	138	15.186	15.156	(0.998)	32383	0.90269	0.9027 (M)
44 Acenaphthene	153	15.287	15.279	(1.005)	56544	0.51964	0.5196
45 2,4-Dinitrophenol	184	15.449	15.372	(1.015)	2409	0.17841	0.1784 (M)
46 Dibenzofuran	168	15.619	15.612	(1.026)	86821	0.50206	0.5021
47 4-Nitrophenol	109	15.727	15.565	(1.034)	10837	0.92446	0.9245 (M)
48 2,4-Dinitrotoluene	165	15.696	15.681	(1.031)	41884	1.02835	1.028
50 Diethylphthalate	149	16.184	16.176	(1.064)	84962	0.75484	0.7548
49 Fluorene	166	16.338	16.323	(1.074)	114963	0.55636	0.5564
51 4-Chlorophenyl-phenylether	204	16.323	16.323	(1.073)	34790	0.38339	0.3834
52 4-Nitroaniline	138	16.485	16.439	(1.083)	37662	1.04818	1.048
53 4,6-Dinitro-2-methylphenol	198	16.554	16.531	(0.906)	24188	0.97945	0.9795 (M)
54 N-Nitrosodiphenylamine	169	16.577	16.570	(0.907)	72186	0.72905	0.7290
§ 55 2,4,6-Tribromophenol	330	16.886	16.870	(1.110)	5938	0.35203	0.3520 (M)
56 4-Bromophenyl-phenylether	248	17.333	17.318	(0.948)	26502	0.57770	0.5777
57 Hexachlorobenzene	284	17.650	17.642	(0.966)	27477	0.62488	0.6249
58 Pentachlorophenol	266	18.068	18.022	(0.989)	639	0.06782	0.06782 (M)
* 59 Phenanthrene-d10	188	18.277	18.269	(1.000)	629695	4.00000	
60 Phenanthrene	178	18.323	18.316	(1.003)	90798	0.54885	0.5489
61 Anthracene	178	18.416	18.416	(1.008)	92531	0.52486	0.5249
62 Carbazole	167	18.780	18.757	(1.028)	104841	0.64461	0.6446
63 Di-n-butylphthalate	149	19.546	19.546	(1.069)	125559	0.51419	0.5142
64 Fluoranthene	202	20.729	20.722	(0.887)	109762	0.82466	0.8247
65 Pyrene	202	21.155	21.147	(0.906)	91007	0.78160	0.7816
§ 66 Terphenyl-d14	244	21.441	21.434	(0.918)	67806	1.03236	1.032
67 Butylbenzylphthalate	149	22.363	22.363	(0.957)	48504	1.27568	1.276
68 Benzo(a)anthracene	228	23.331	23.331	(0.999)	54716	0.68606	0.6861
* 69 Chrysene-d12	240	23.362	23.362	(1.000)	188212	4.00000	
70 3,3'-Dichlorobenzidine	252	23.300	23.292	(0.997)	69653	2.68014	2.680
71 Chrysene	228	23.408	23.408	(1.002)	35360	0.66640	0.6664
72 bis(2-Ethylhexyl)phthalate	149	23.400	23.400	(0.959)	28099	0.67179	0.6718
* 134 Di-n-octylphthalate-d4	153	24.407	24.407	(1.000)	378415	4.00000	
73 Di-n-octylphthalate	149	24.414	24.422	(1.000)	53256	0.61918	0.6192
74 Benzo(b)fluoranthene	252	25.266	25.266	(0.969)	32493	0.48085	0.4809
75 Benzo(k)fluoranthene	252	25.312	25.313	(0.971)	38008	0.58494	0.5849
76 Benzo(a)pyrene	252	25.947	25.948	(0.996)	27745	0.50167	0.5017
* 77 Perylene-d12	264	26.064	26.064	(1.000)	149208	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.853	28.845	(1.107)	32797	0.55541	0.5554
79 Dibenzo(a,h)anthracene	278	28.876	28.853	(1.108)	27948	0.61825	0.6182
80 Benzo(g,h,i)perylene	276	29.684	29.661	(1.139)	25436	0.53886	0.5389
90 N-Nitrosodimethylamine	74	4.735	4.720	(0.520)	57175	1.03275	1.033
91 Aniline	93	8.567	8.560	(0.941)	94582	0.86441	0.8644
93 Benzidine	184	20.985	20.962	(0.898)	121873	4.38921	4.389
103 Pyridine	79	4.766	4.743	(0.523)	86896	0.55370	0.5537
105 1-methylnaphthalene	142	13.259	13.252	(1.143)	68519	0.39016	0.3902
111 Azobenzene (1,2-DP-Hydrazine)	77	16.647	16.639	(1.094)	82108	0.54947	0.5495

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.312	25.313	(0.971)	66086	1.04890	1.049
120 2,3,4,6-Tetrachlorophenol	232	15.990	15.959	(1.051)	8129	0.24604	0.2460

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071403.D Calibration Time: 14:12
 Lab Smp Id: SKG0139-LCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	231724	18.33
27 Naphthalene-d8	626038	313019	1252076	702753	12.25
42 Acenaphthene-d10	366612	183306	733224	374154	2.06
59 Phenanthrene-d10	635137	317569	1270274	629695	-0.86
69 Chrysene-d12	270778	135389	541556	188212	-30.49
134 Di-n-octylphthala	507031	253516	1014062	378415	-25.37
77 Perylene-d12	170107	85054	340214	149208	-12.29

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.11	0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.07
42 Acenaphthene-d10	15.21	14.71	15.71	15.22	0.05
59 Phenanthrene-d10	18.27	17.77	18.77	18.28	0.04
69 Chrysene-d12	23.36	22.86	23.86	23.36	-0.00
134 Di-n-octylphthala	24.41	23.91	24.91	24.41	-0.00
77 Perylene-d12	26.06	25.56	26.56	26.06	-0.00

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

REVIEW SUMMARY FOR FILE - NT1022071403.D

Lab ID: SKG0139-LCV1
nt10.i, ABN.m, 14-JUL-2022 15:00

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.985	0.978	0.0066	2,4-Dichlorophenol
1.034	1.023	0.0101	4-Nitrophenol

RRT check based on Ccal File: NT1022071402.D

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

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

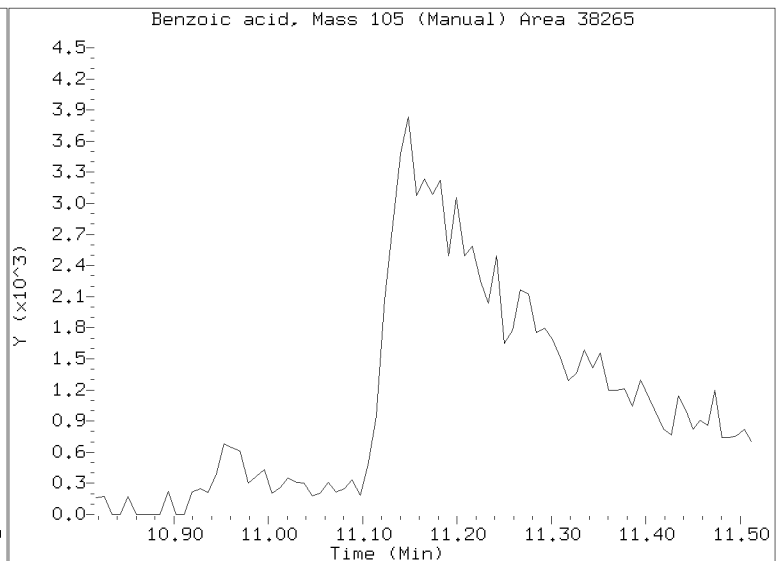
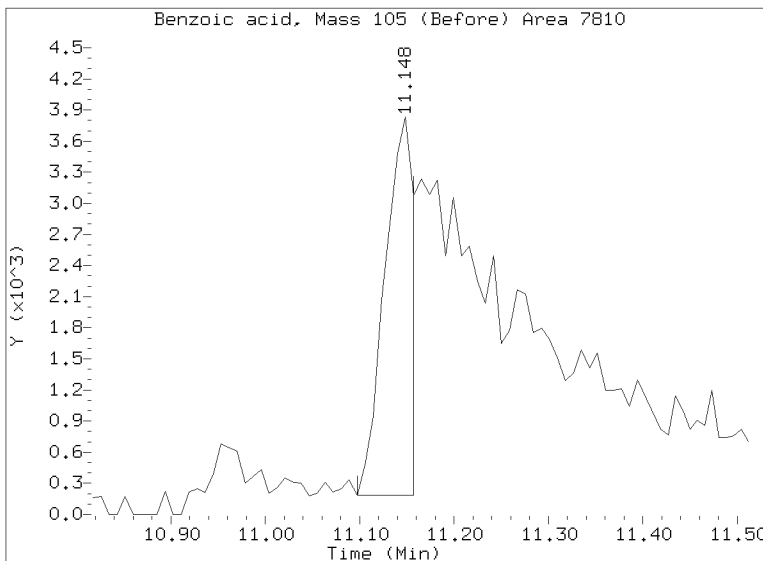
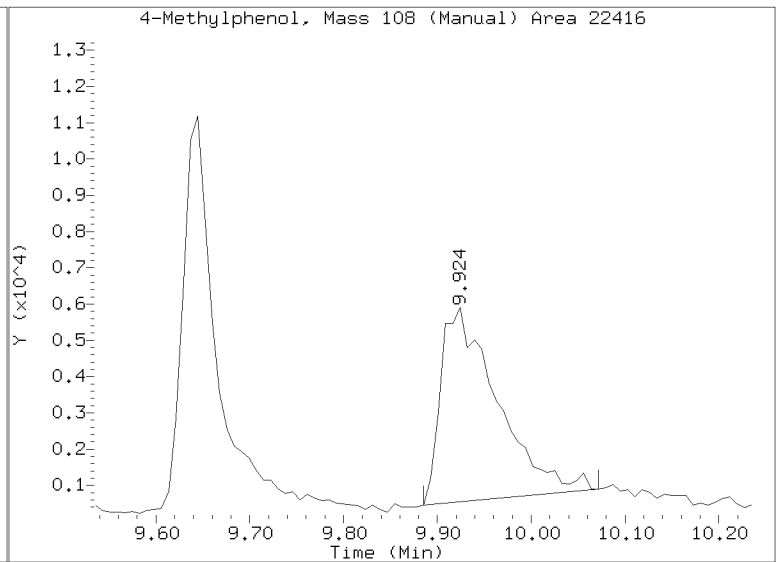
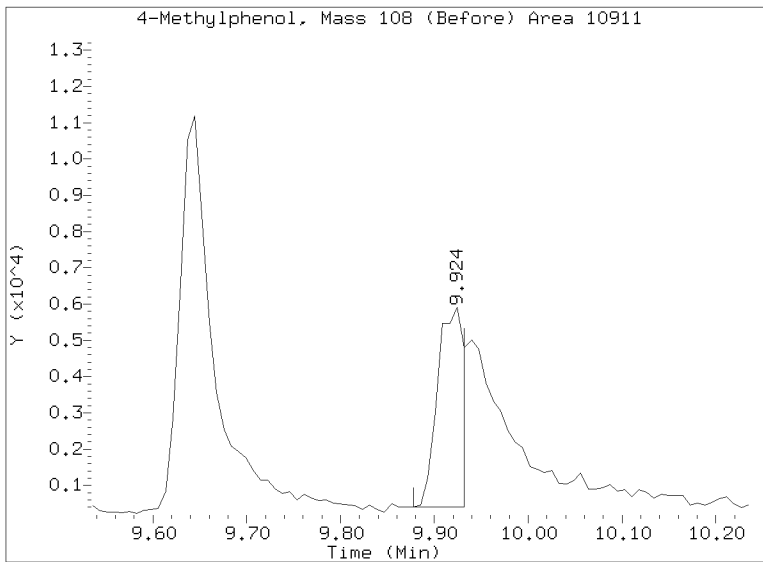
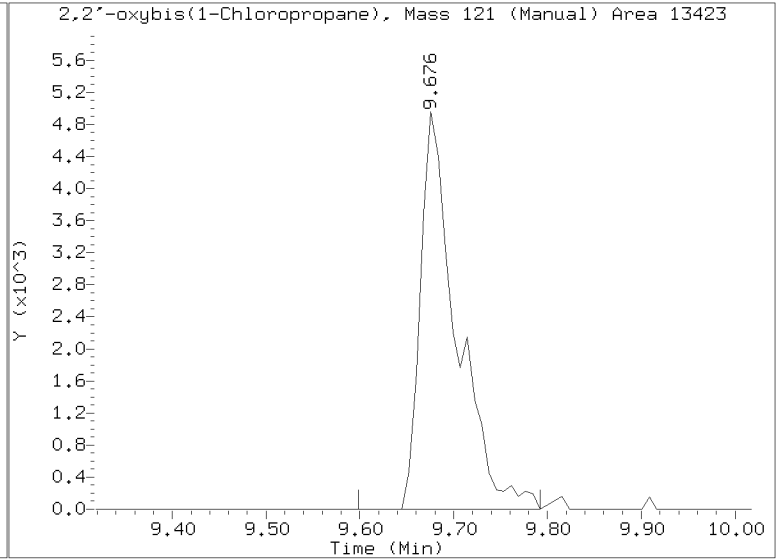
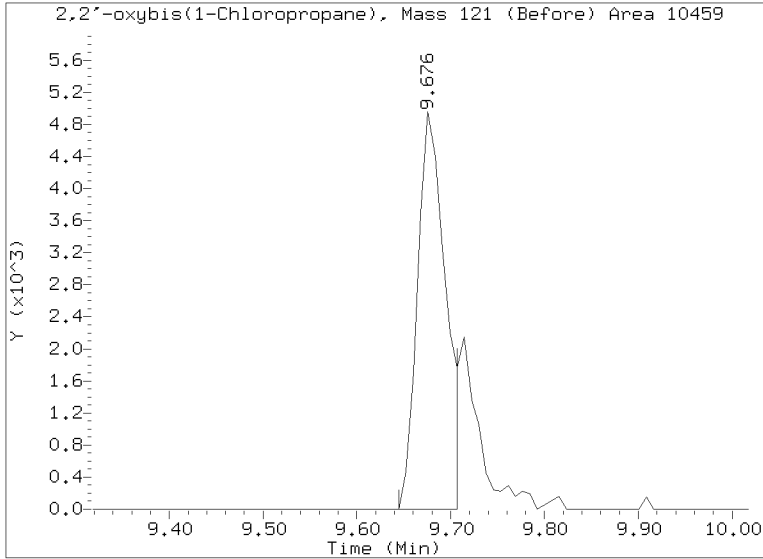
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071403.D

Injection Date: 14-JUL-2022 15:00

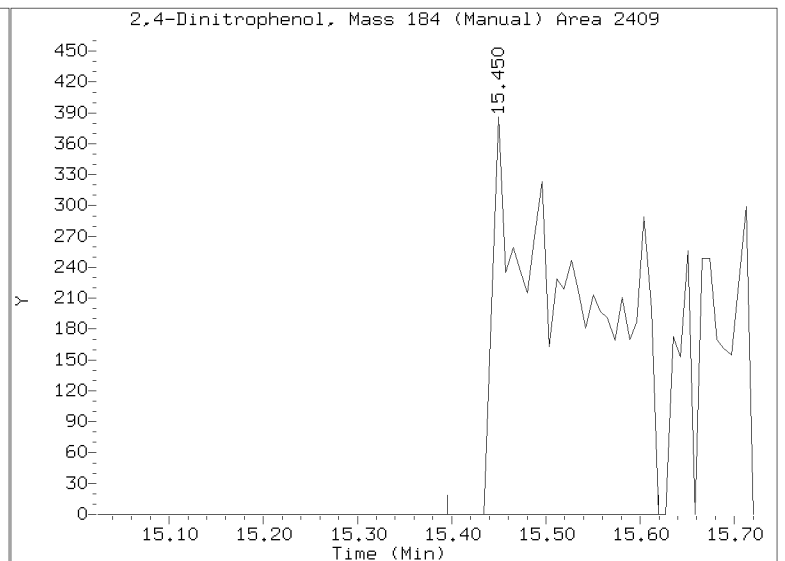
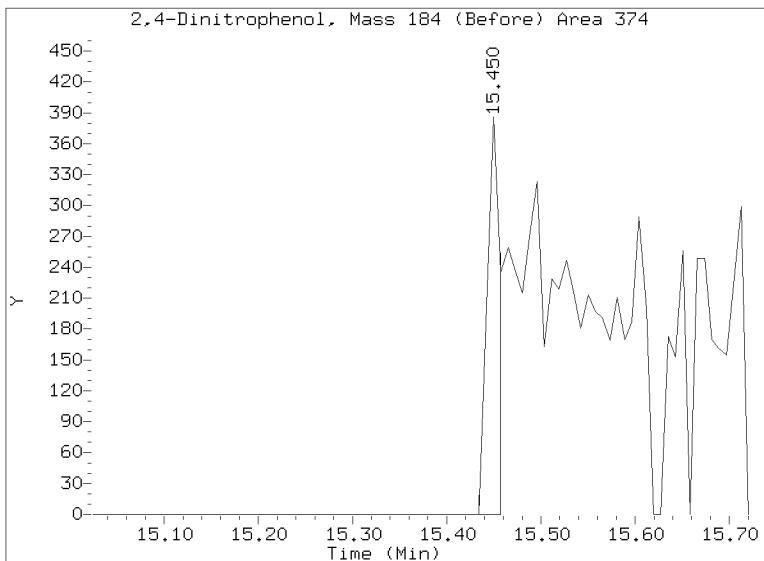
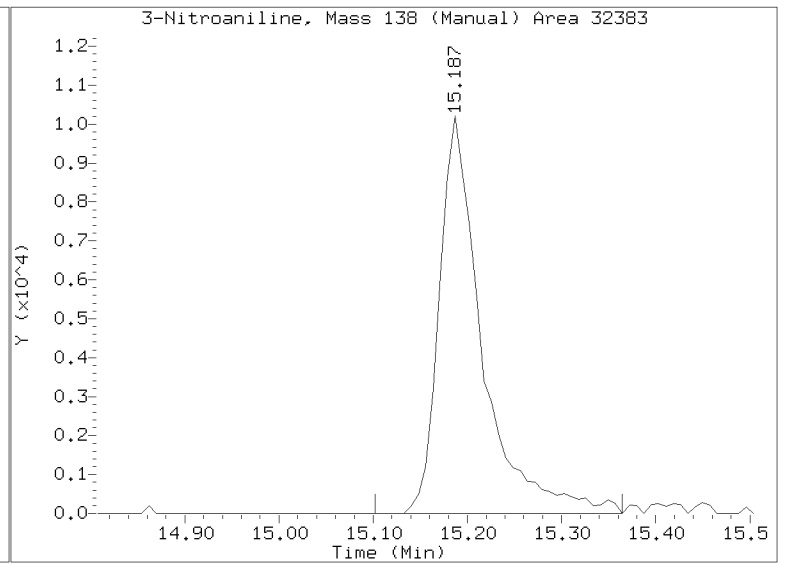
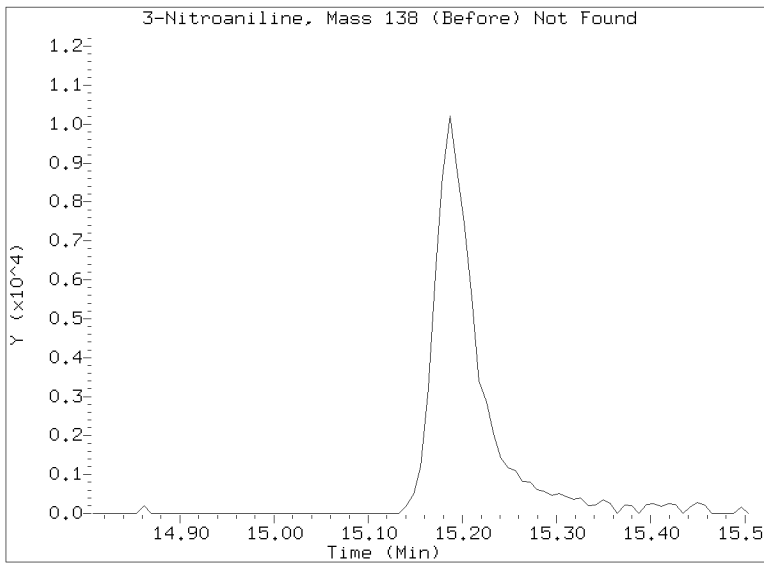
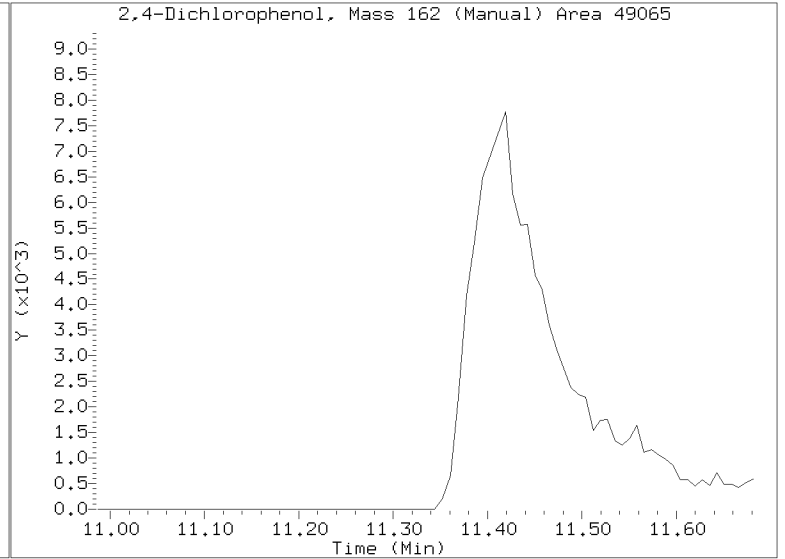
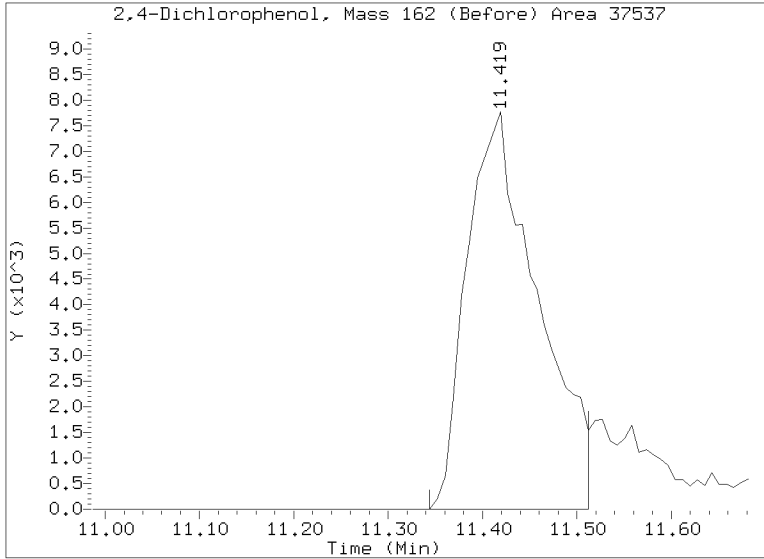
Lab ID:SKG0139-LCV1 Client ID:

Report Date: 07/19/2022 12:55



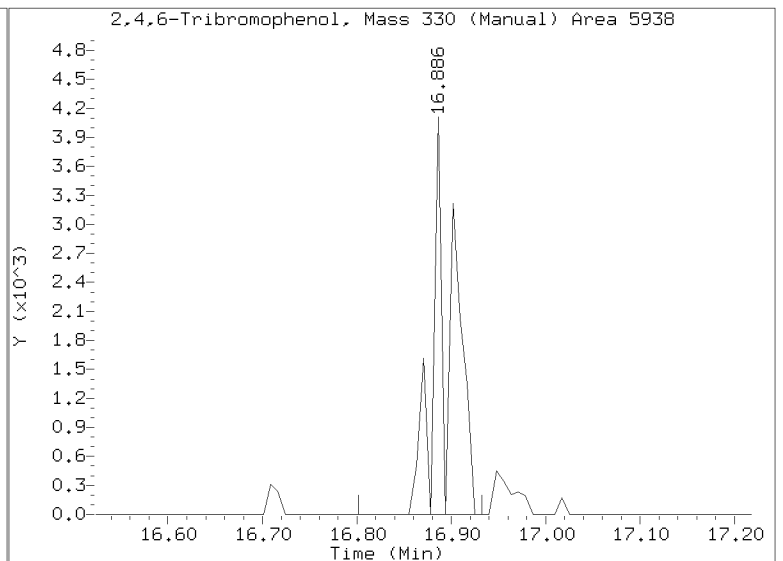
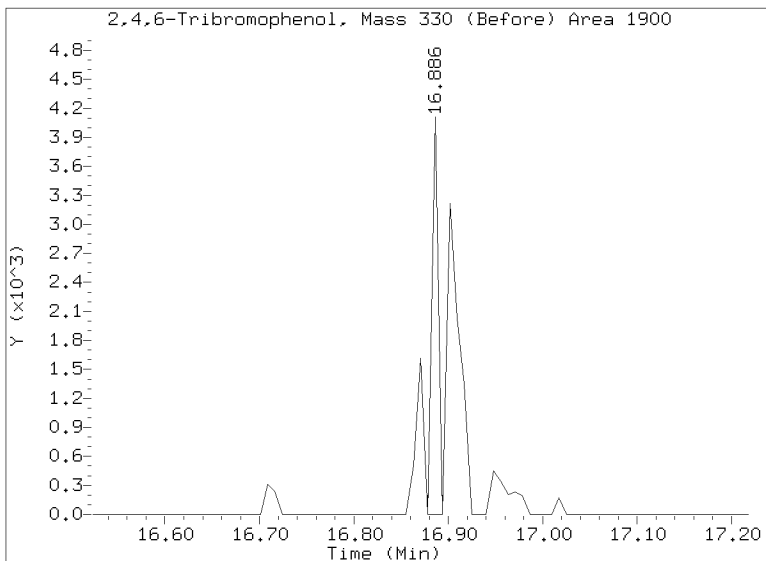
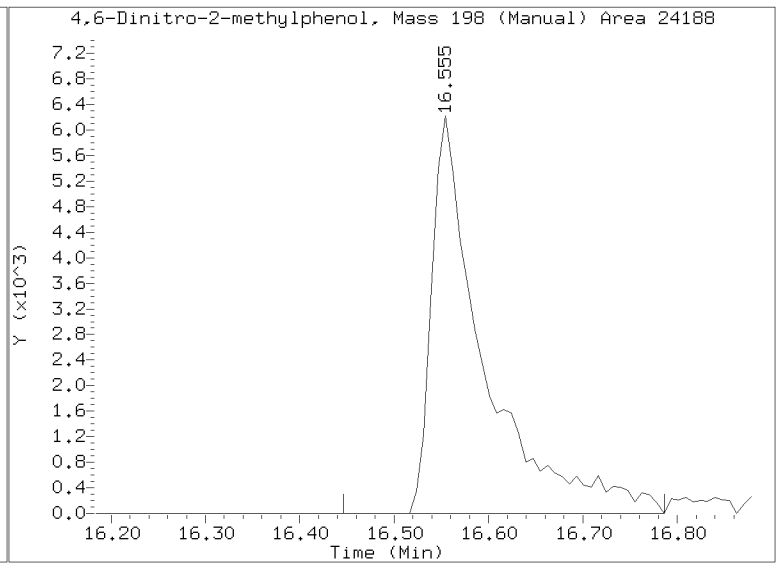
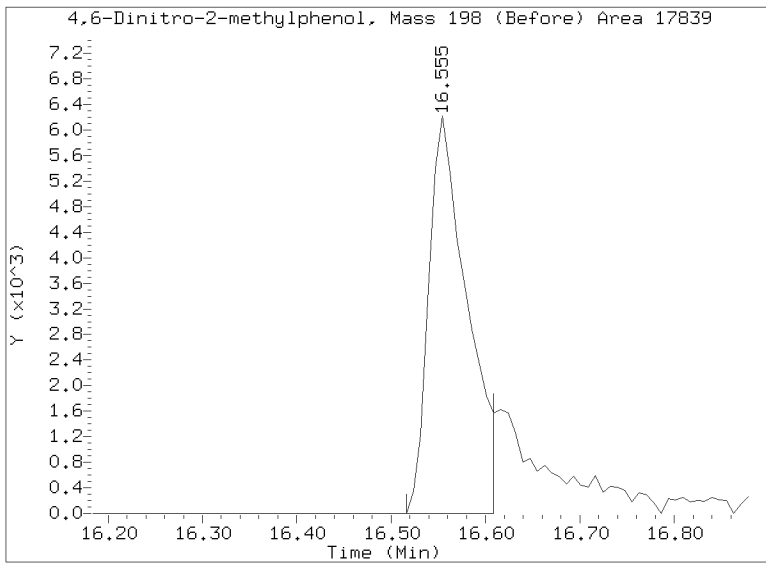
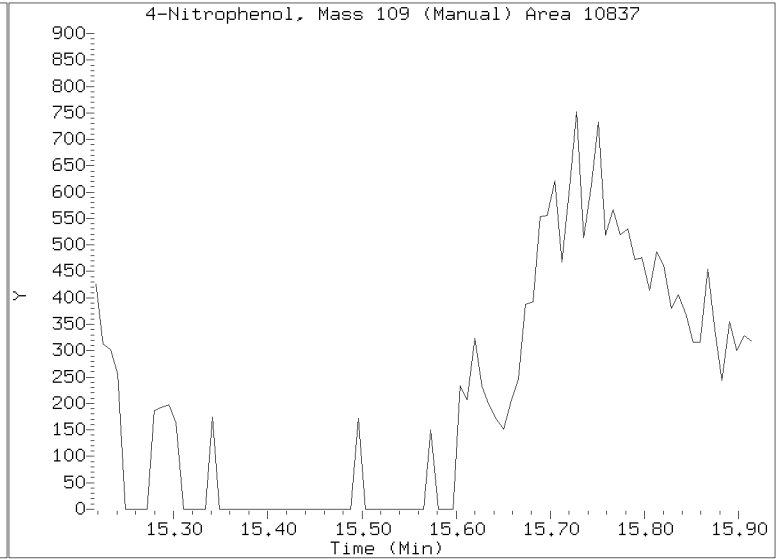
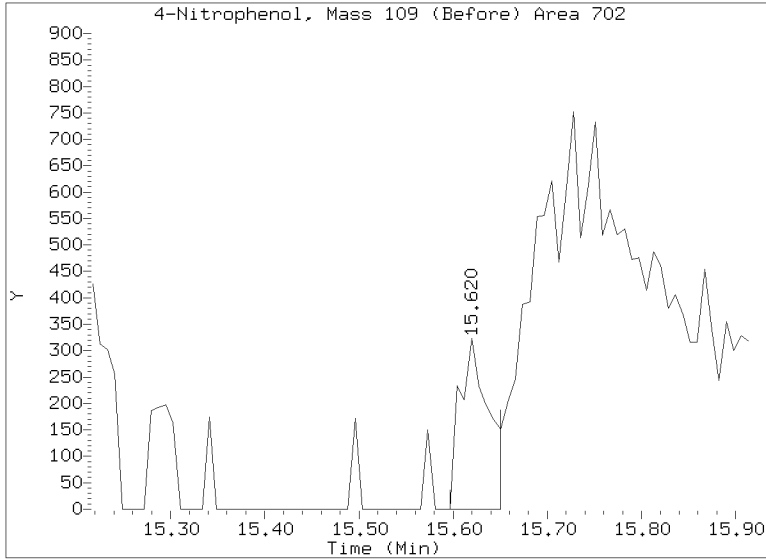
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071403.D
Injection Date: 14-JUL-2022 15:00
Lab ID:SKG0139-LCV1 Client ID:
Report Date: 07/19/2022 12:55



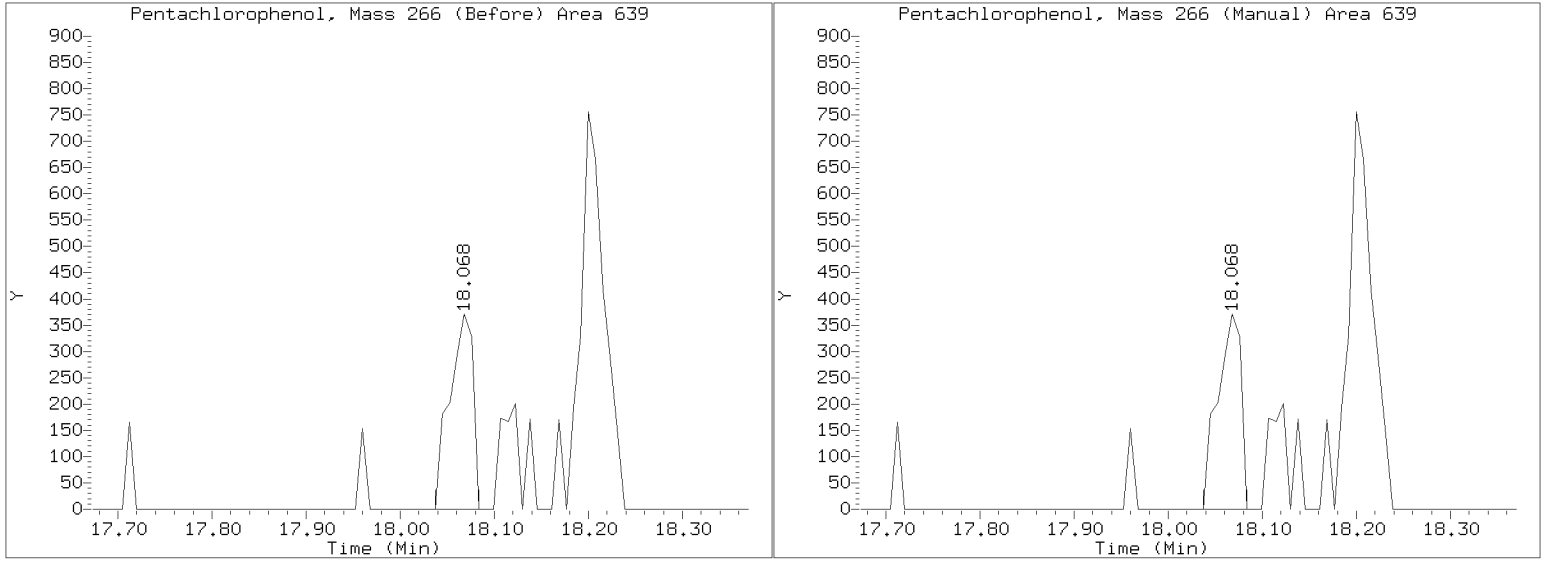
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071403.D
Injection Date: 14-JUL-2022 15:00
Lab ID:SKG0139-LCV1 Client ID:
Report Date: 07/19/2022 12:55



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071403.D
Injection Date: 14-JUL-2022 15:00
Lab ID:SKG0139-LCV1 Client ID:
Report Date: 07/19/2022 12:55





**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FF00062

Laboratory ID: SKG0154-LCV1

Sequence: SKG0154

Standard ID: K005649

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Naphthalene	0.50000	0.6	10.9	50.00
2-Methylnaphthalene	0.50000	0.5	-1.4	50.00
Acenaphthene	0.50000	0.6	12.6	50.00
Pentachlorophenol	1.0000	0.2	-84.9	50.00
Phenanthrene	0.50000	0.6	12.1	50.00
Fluoranthene	0.50000	0.7	44.1	50.00
Benzo(a)anthracene	0.50000	0.6	16.0	50.00
Chrysene	0.50000	0.4	-12.3	50.00
Benzo(b)fluoranthene	0.50000	0.5	6.7	50.00
Benzo(k)fluoranthene	0.50000	0.5	-3.8	50.00
Benzo(a)pyrene	0.50000	0.5	-2.0	50.00
Indeno(1,2,3-cd)pyrene	0.50000	0.5	8.4	50.00
Dibenzo(a,h)anthracene	0.50000	0.6	14.9	50.00
1-Methylnaphthalene	0.50000	0.5	-9.0	50.00
2-Fluorophenol	0.75000	0.845	12.6	50.00
Phenol-d5	0.75000	0.699	-6.8	50.00
2-Chlorophenol-d4	0.75000	0.830	10.6	50.00
1,2-Dichlorobenzene-d4	0.50000	0.571	14.2	50.00
Nitrobenzene-d5	0.50000	0.531	6.1	50.00
2-Fluorobiphenyl	0.50000	0.604	20.8	50.00
2,4,6-Tribromophenol	0.75000	0.610	-18.7	50.00
p-Terphenyl-d14	0.50000	0.919	83.8	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220715.6\NT1022071503.D

Date: 15-JUL-2022 13:28

Client ID:

Sample Info: SKC0154-LCW1

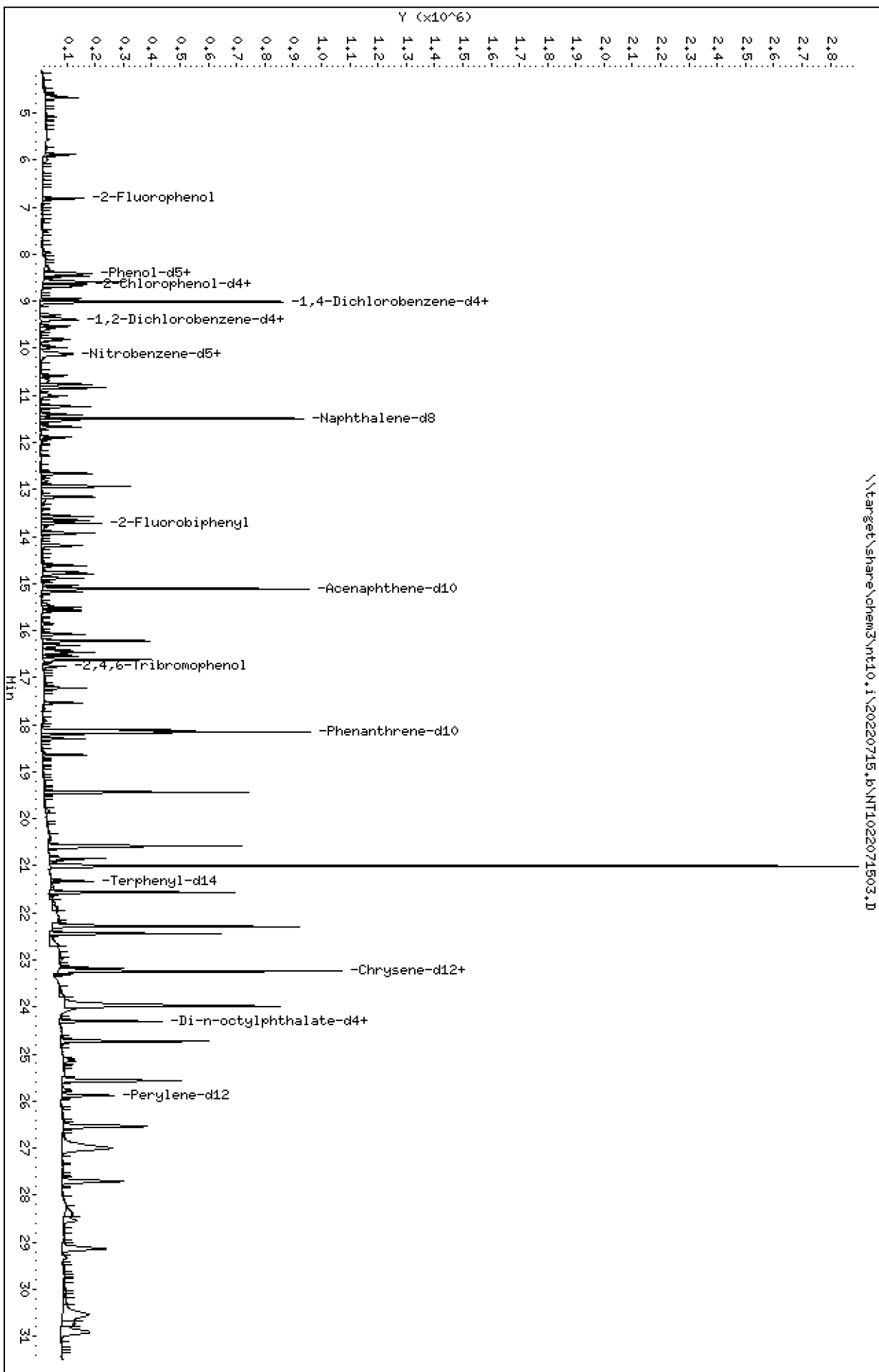
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

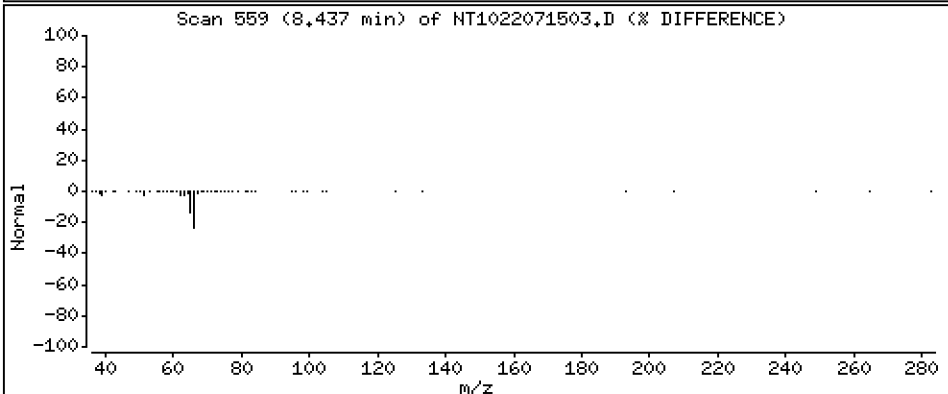
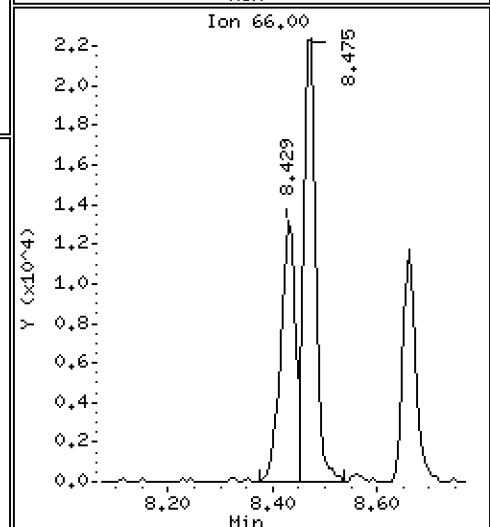
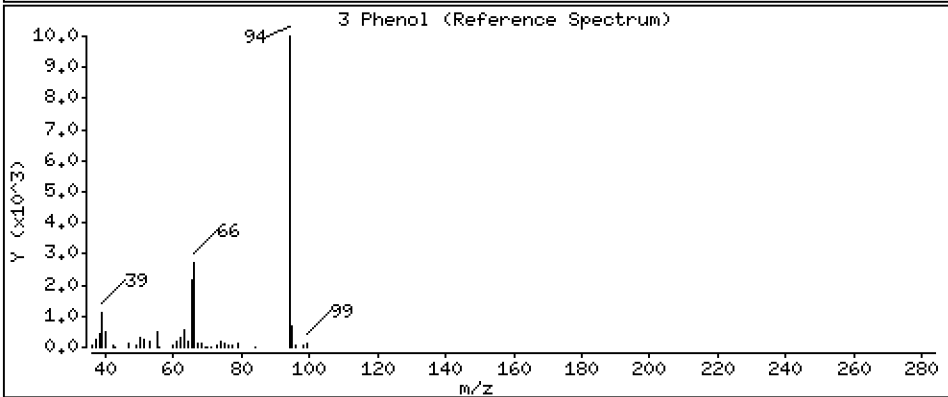
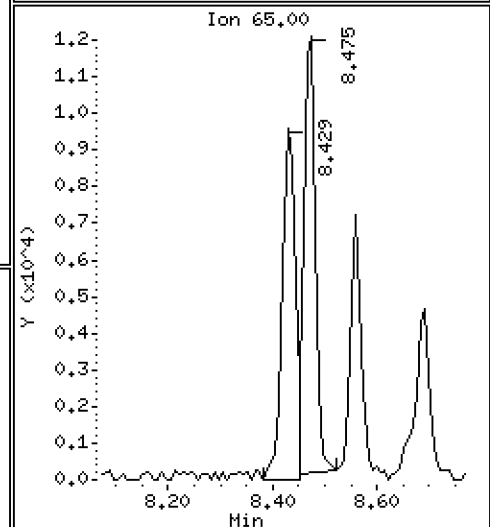
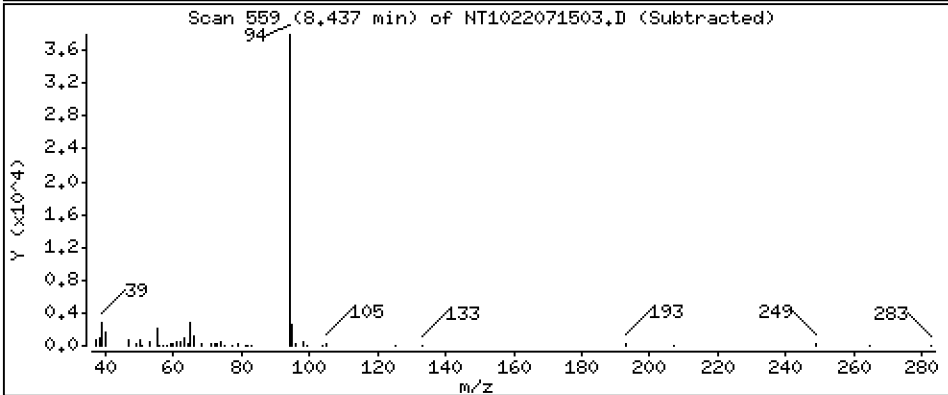
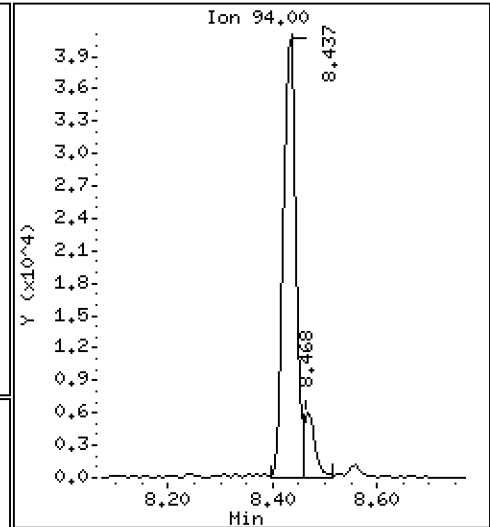
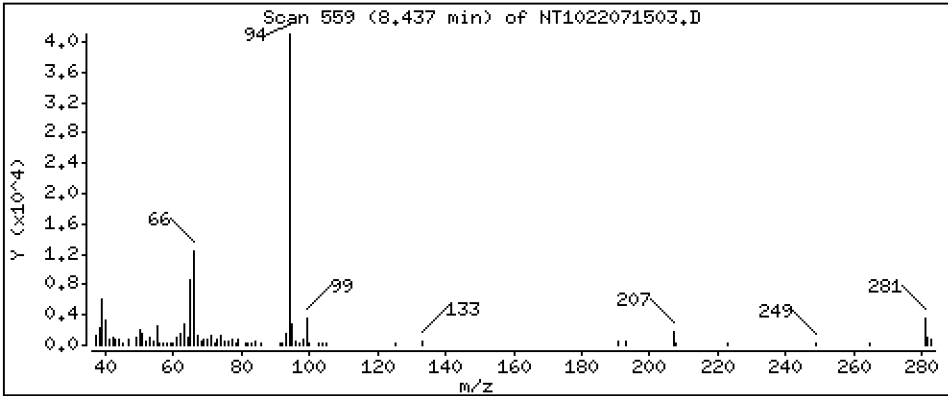
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,5505 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

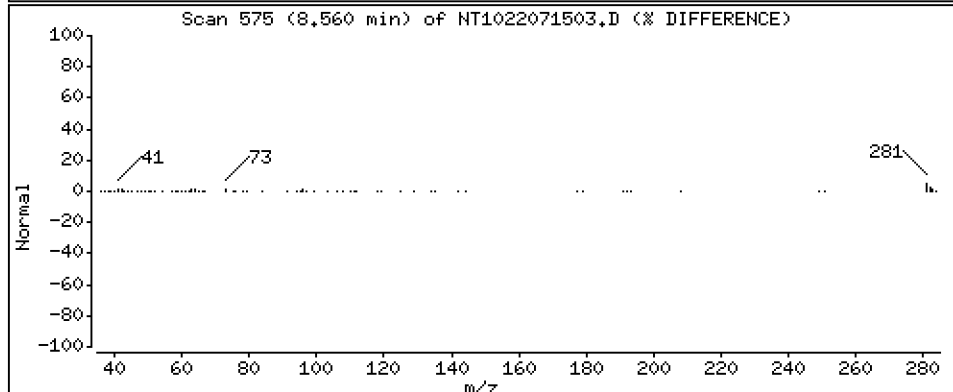
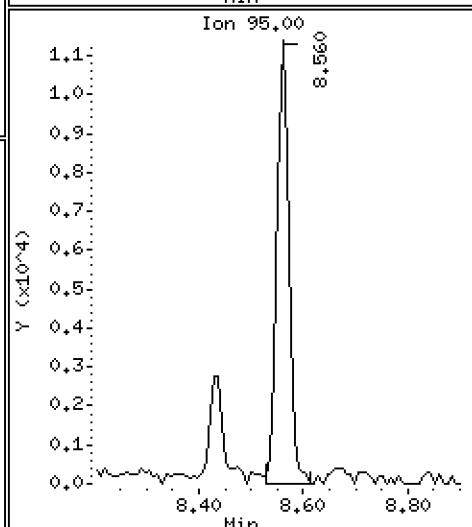
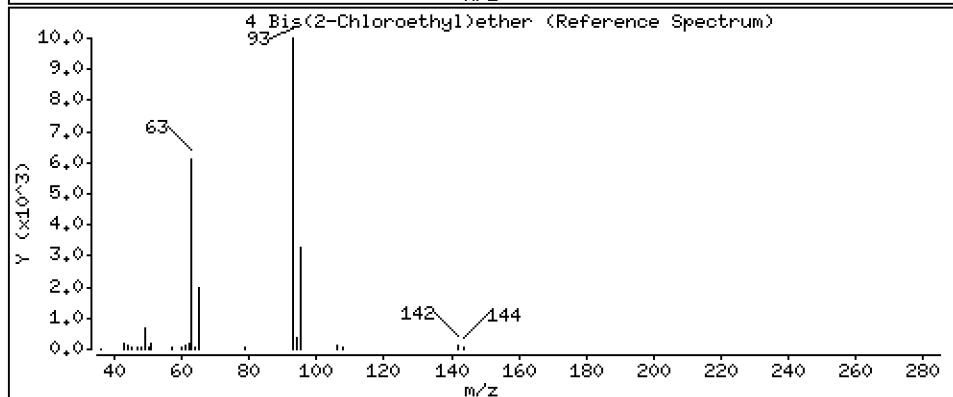
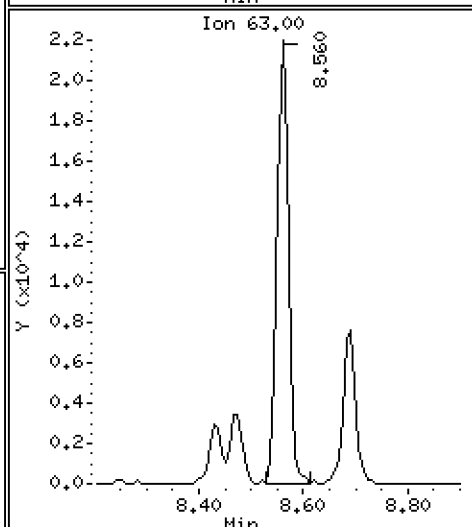
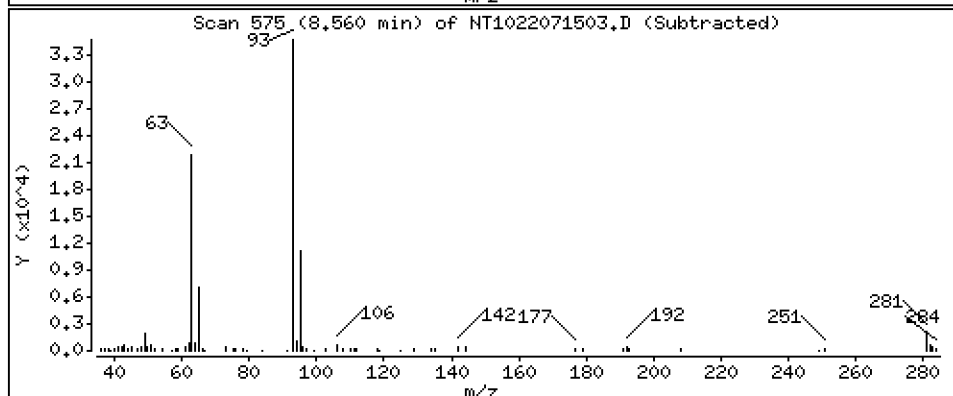
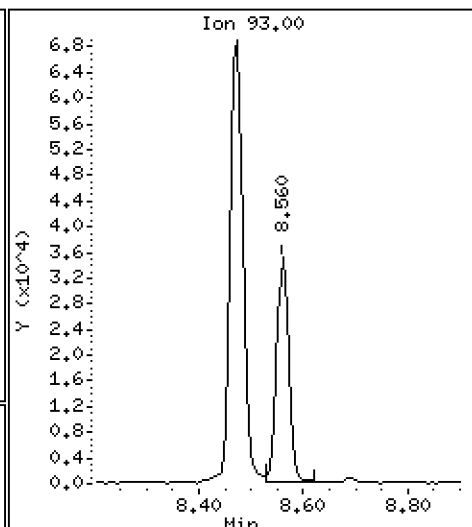
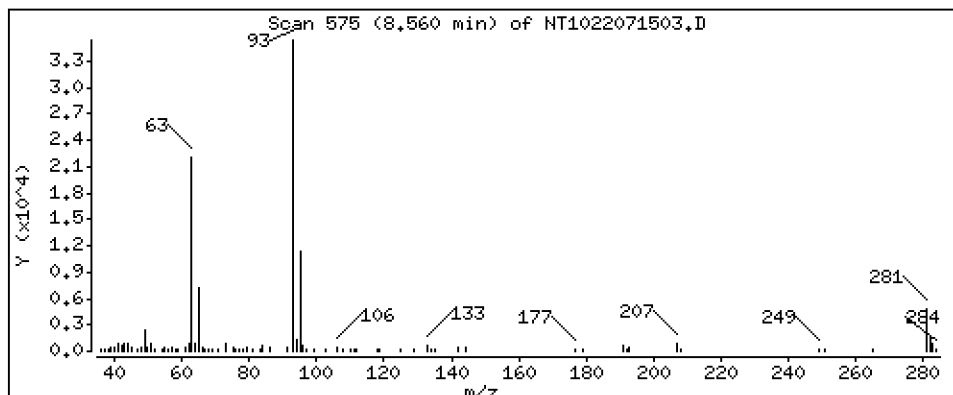
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,6186 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

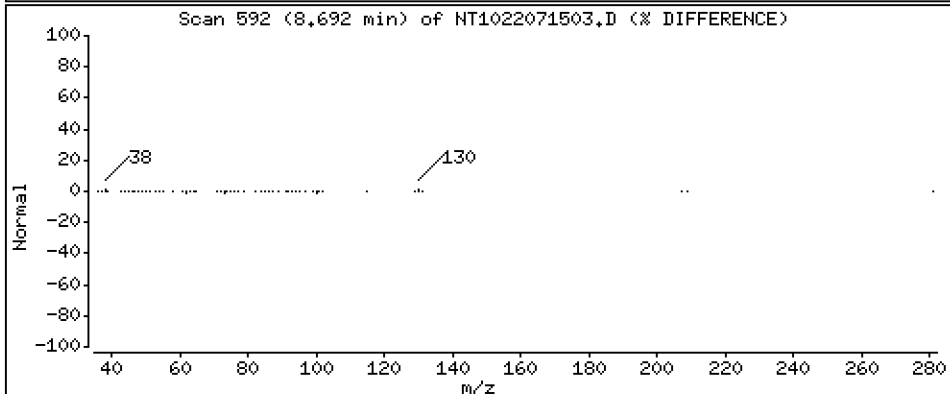
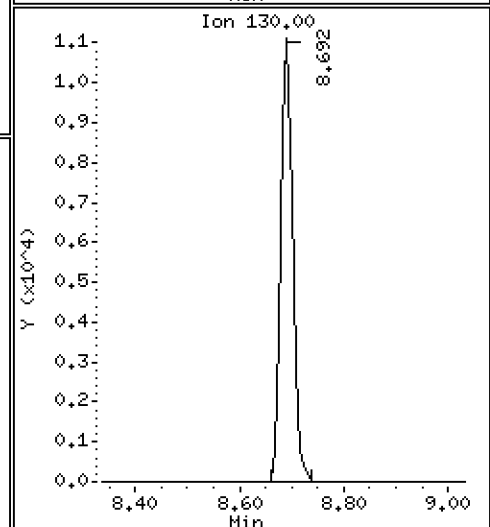
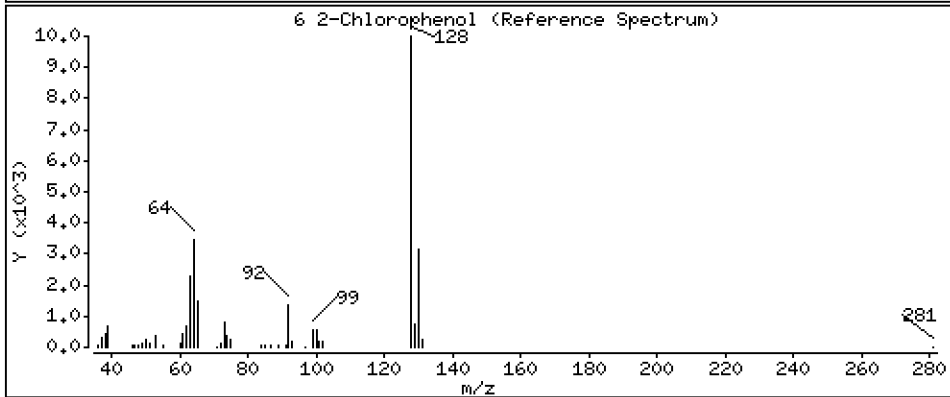
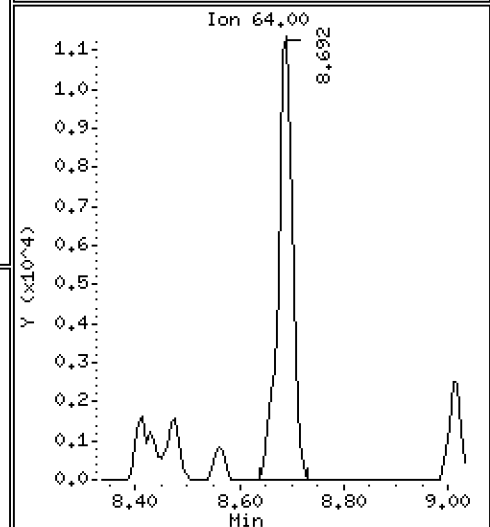
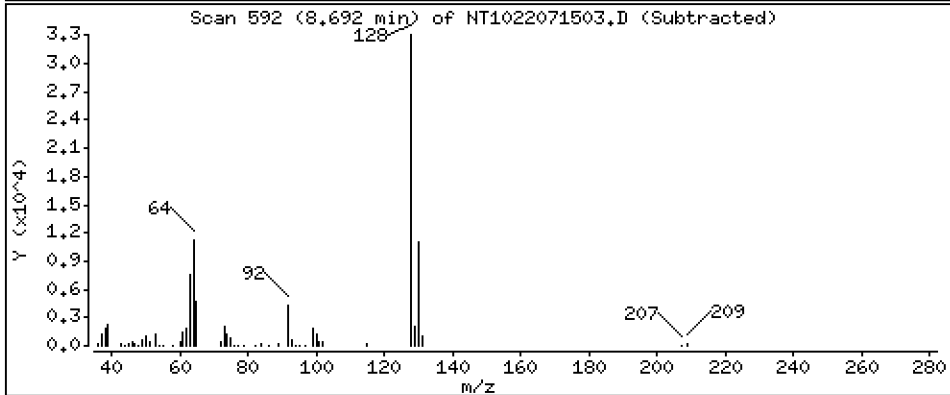
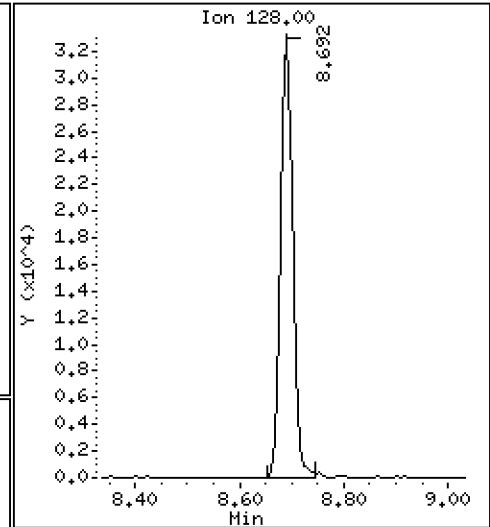
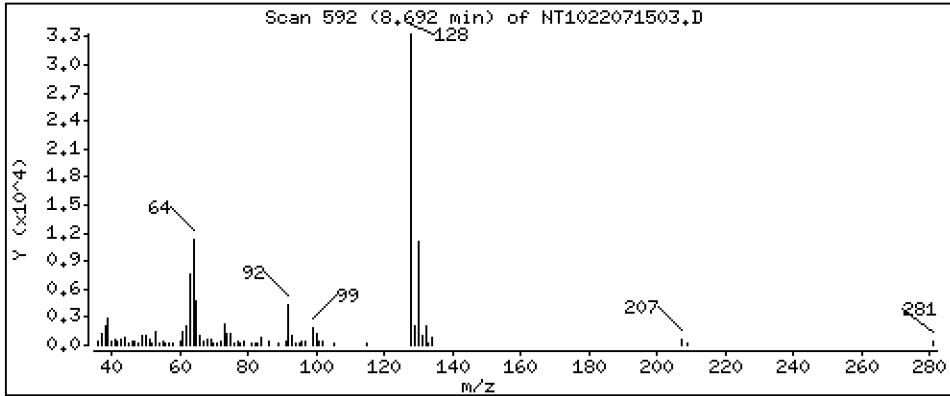
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,5288 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

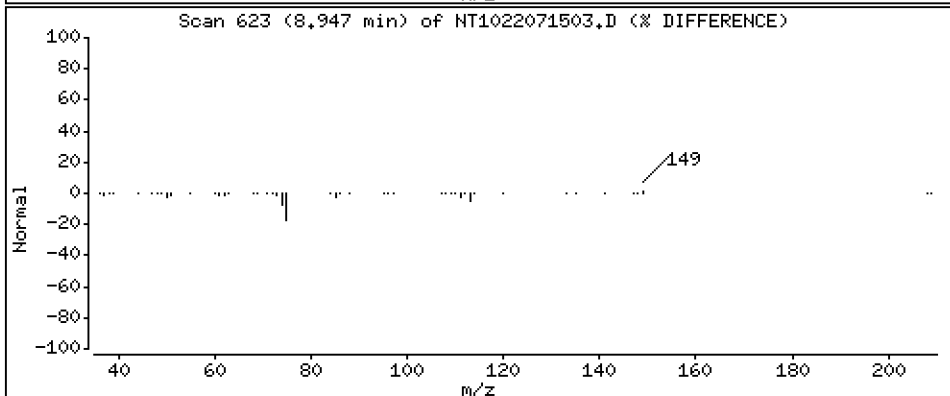
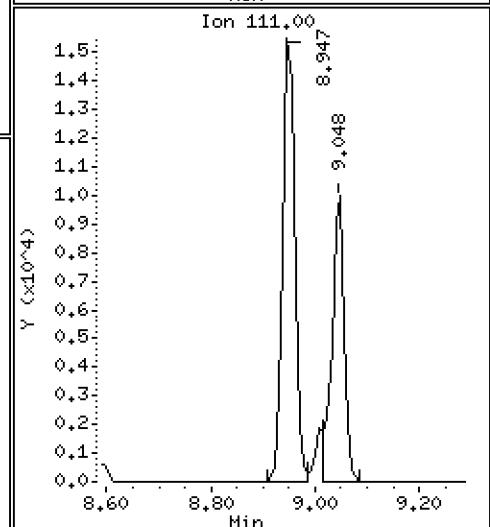
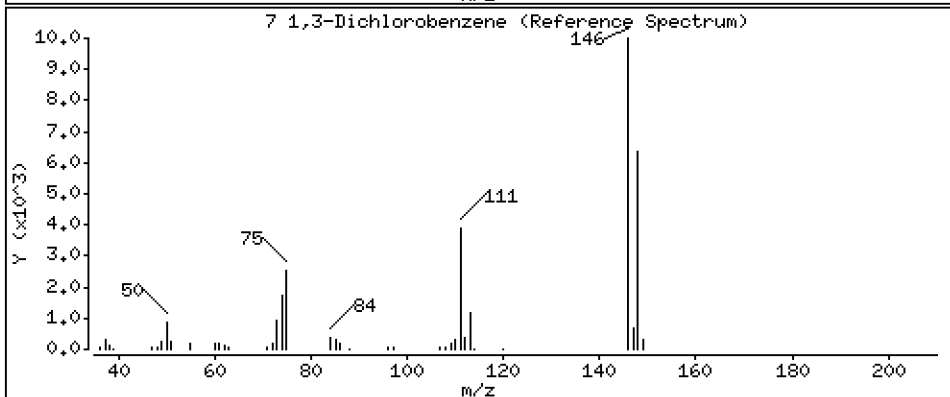
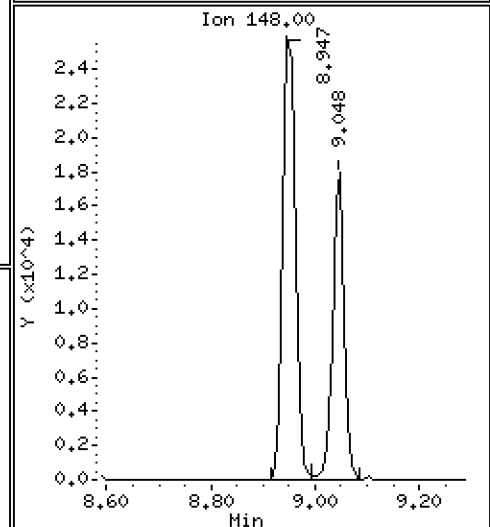
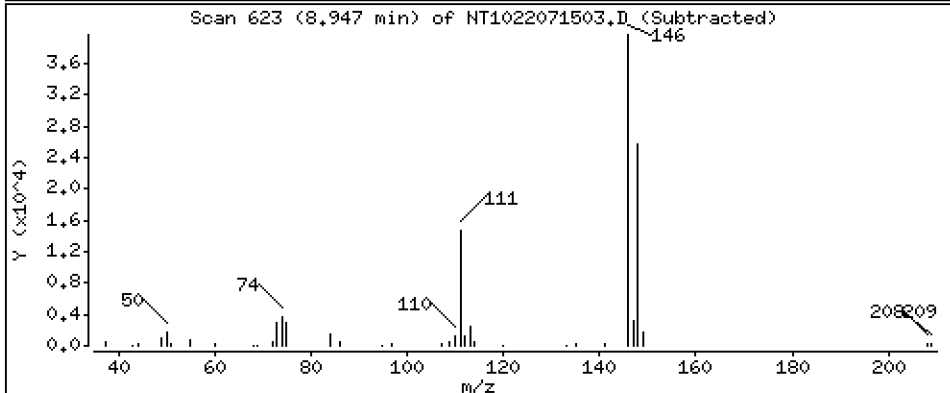
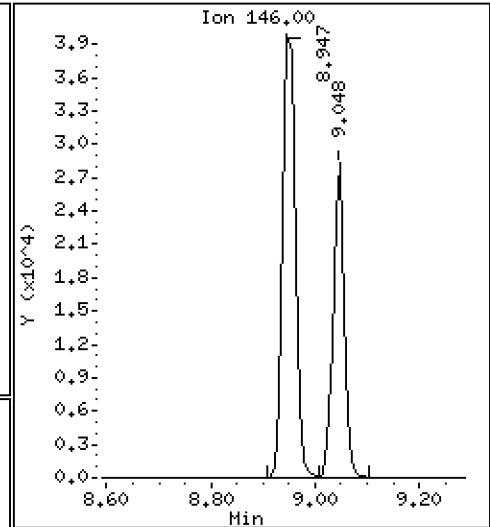
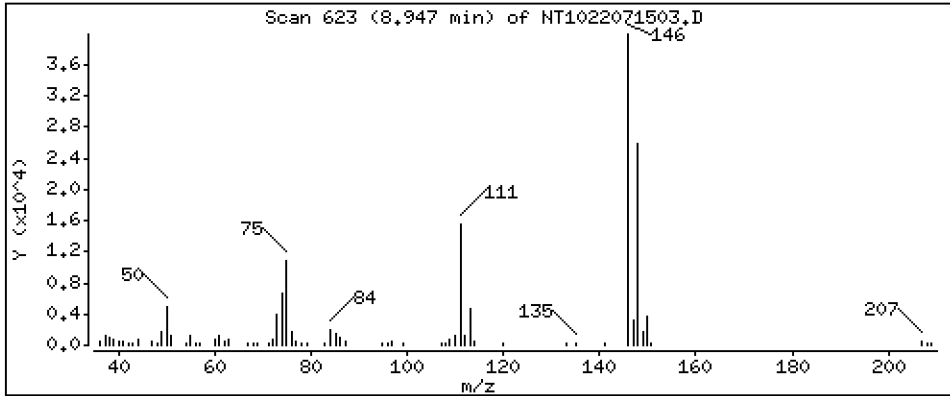
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.6211 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

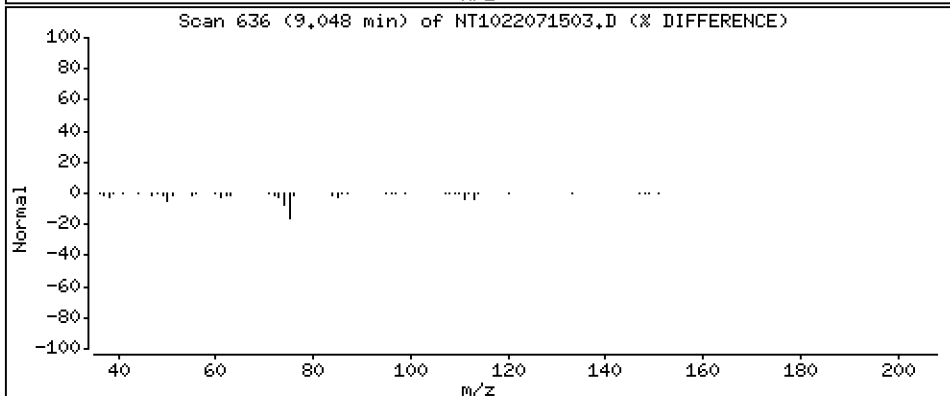
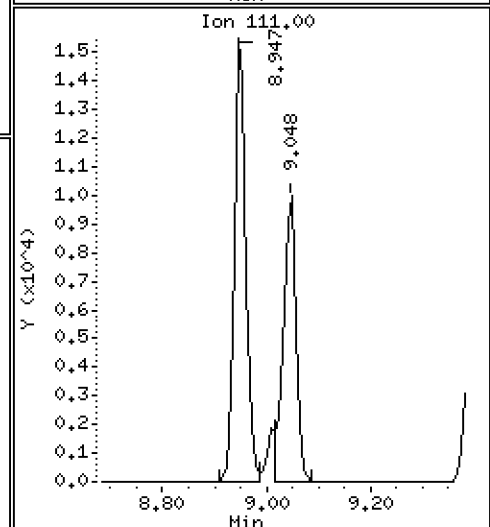
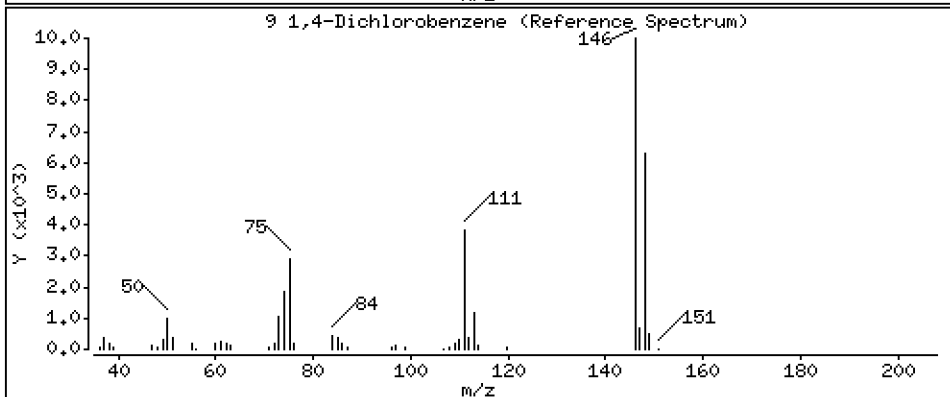
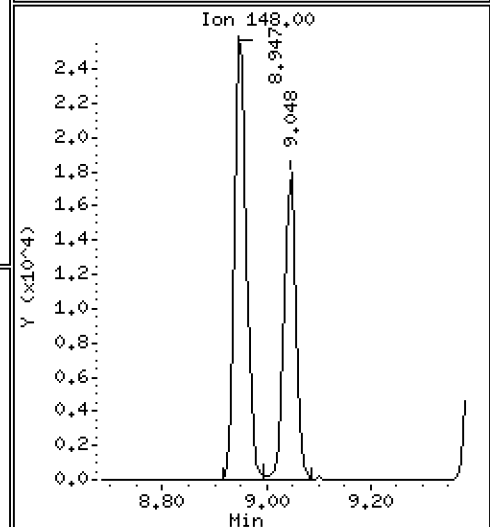
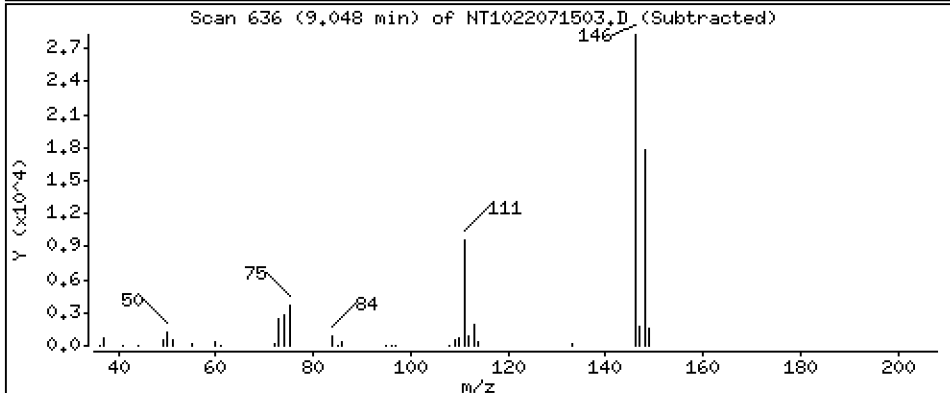
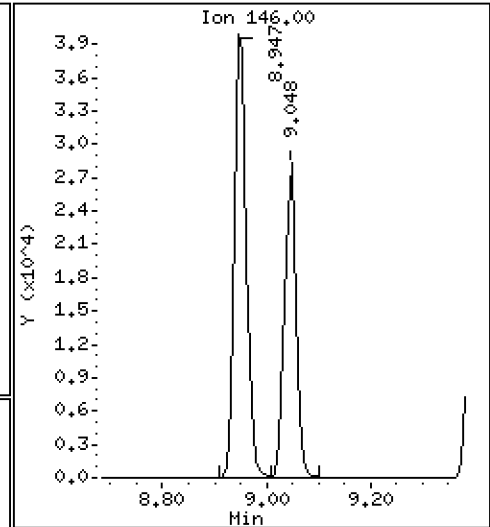
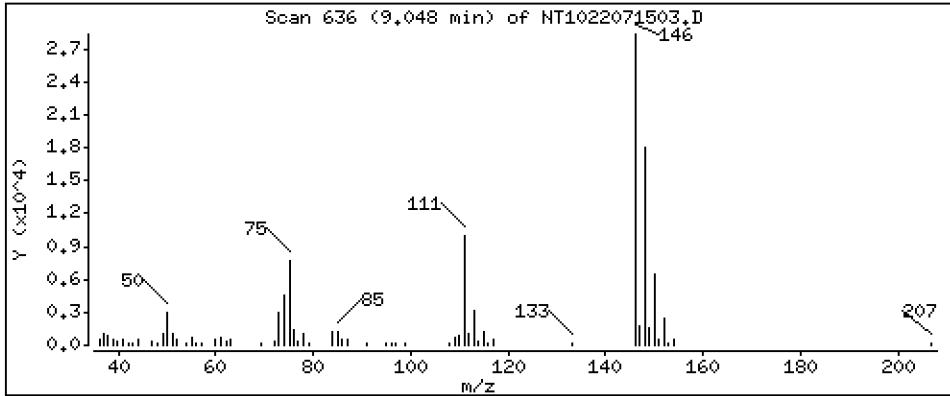
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 0.5152 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

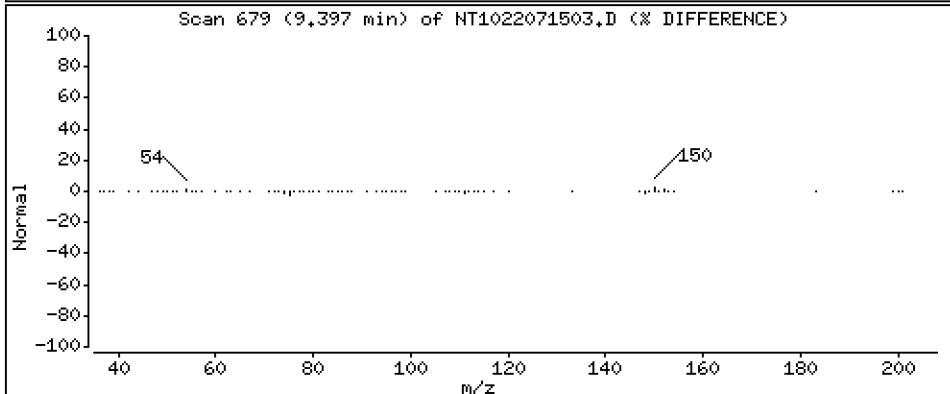
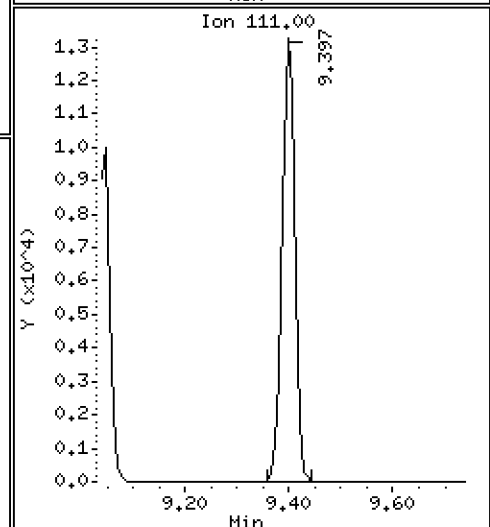
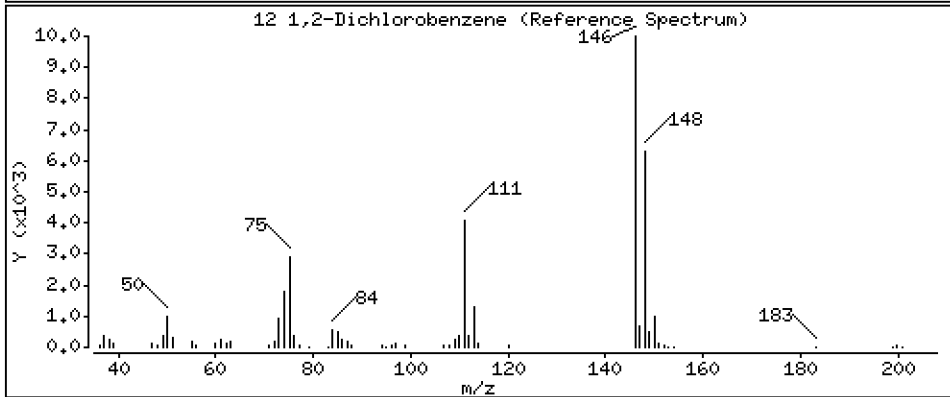
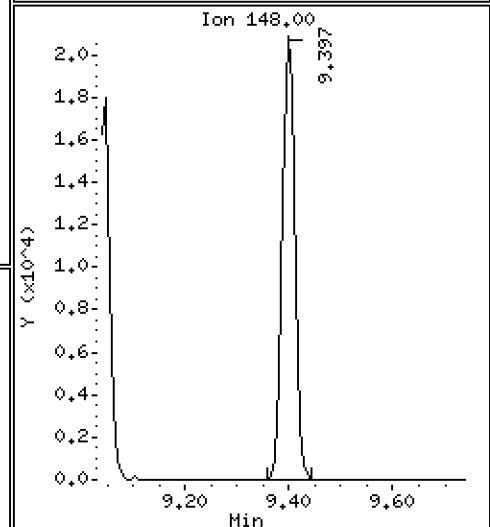
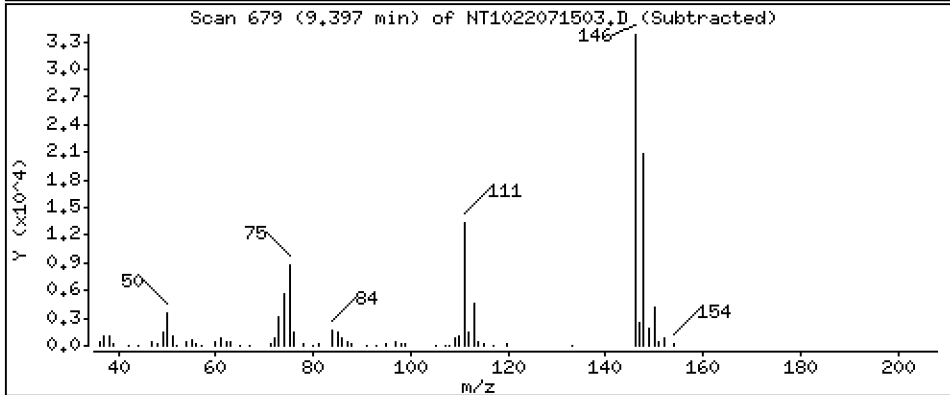
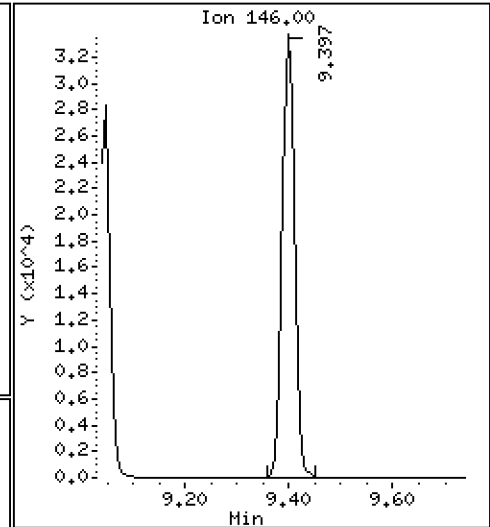
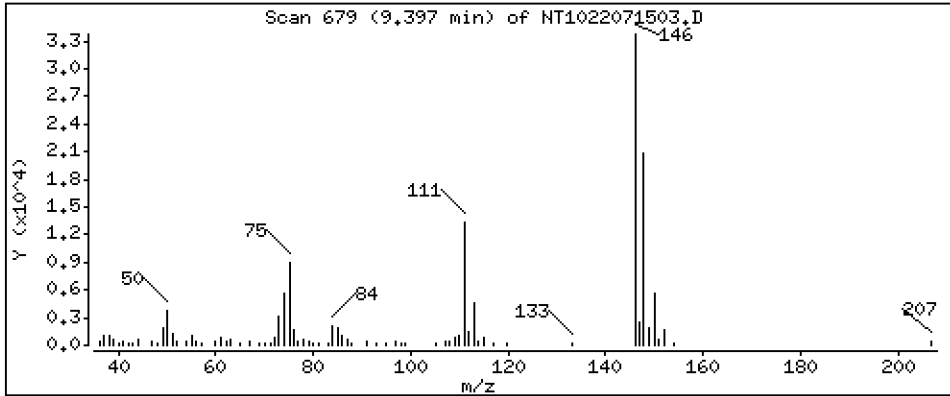
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,6121 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

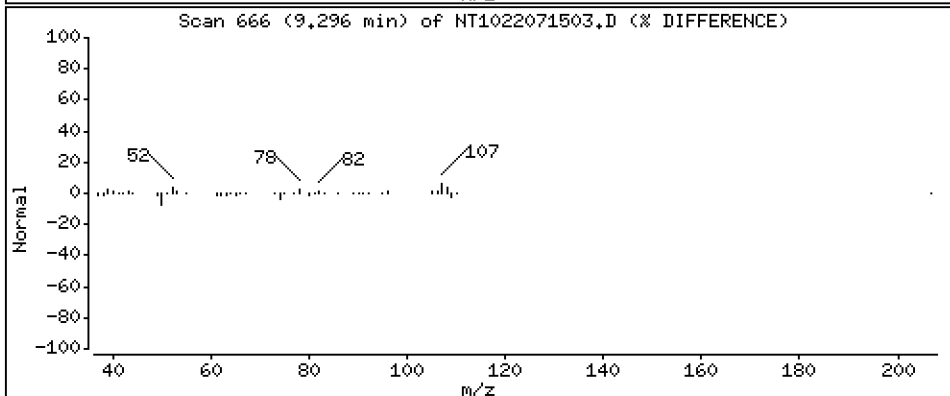
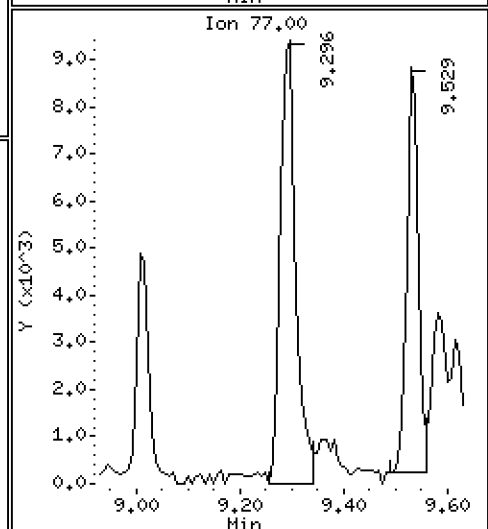
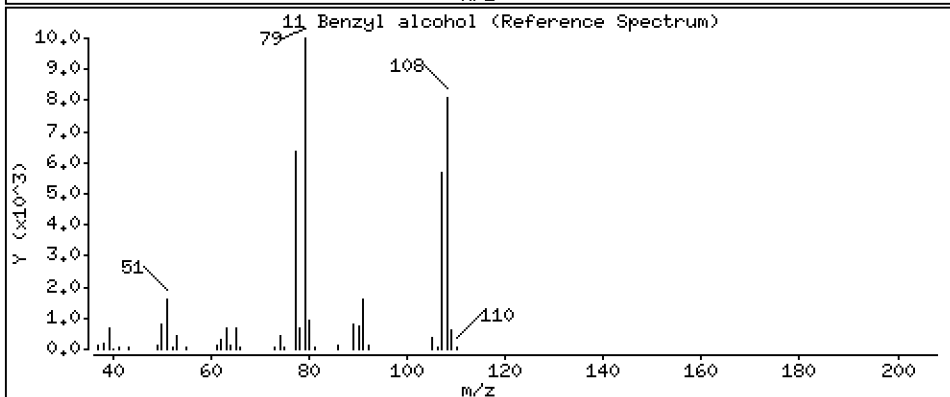
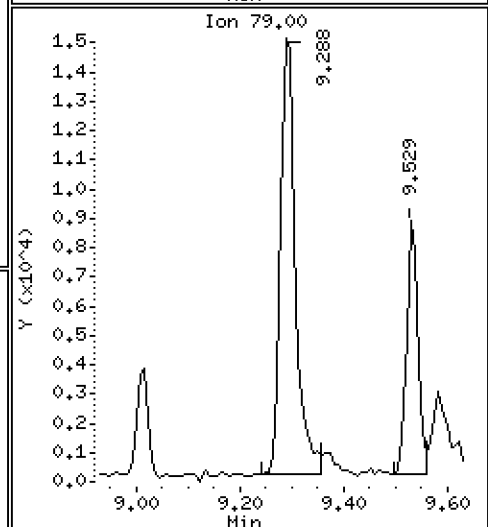
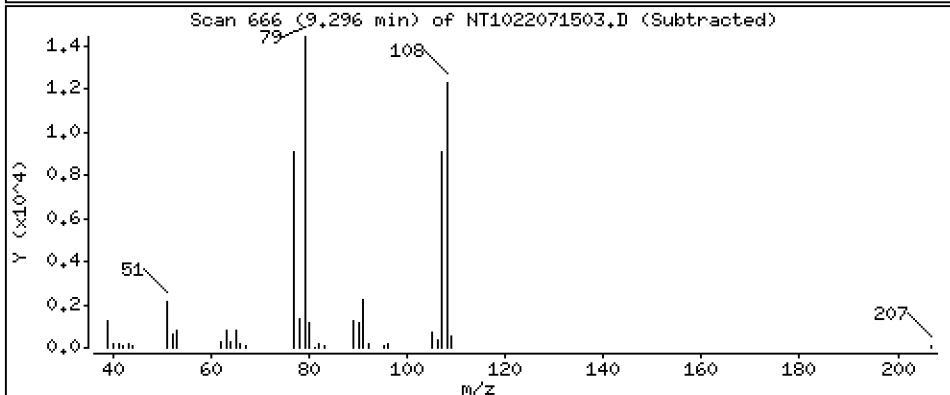
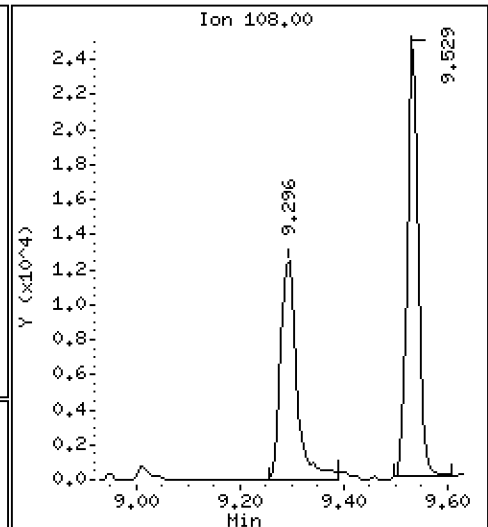
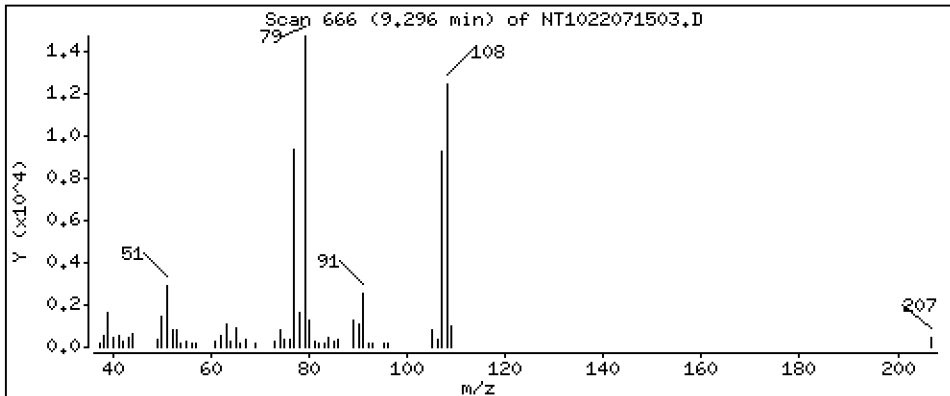
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,5570 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

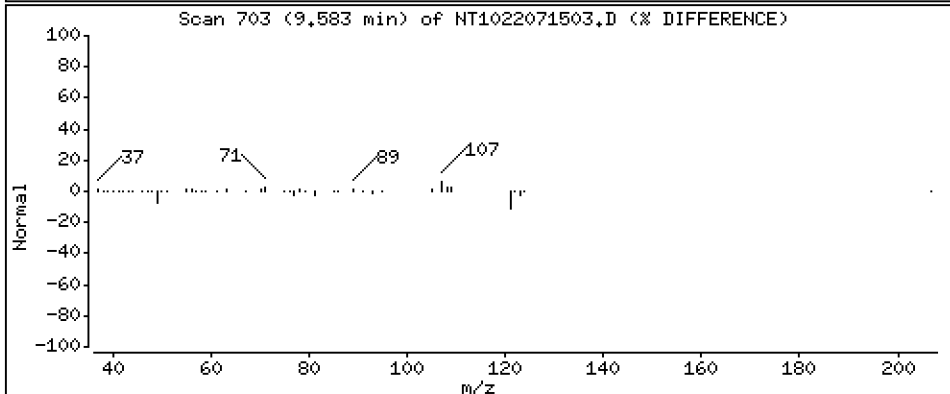
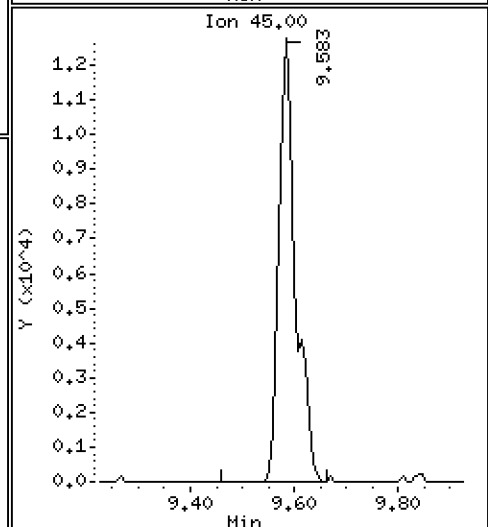
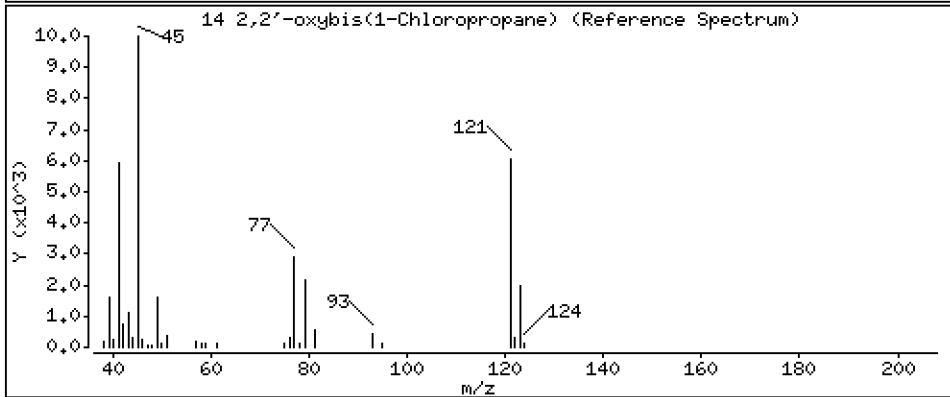
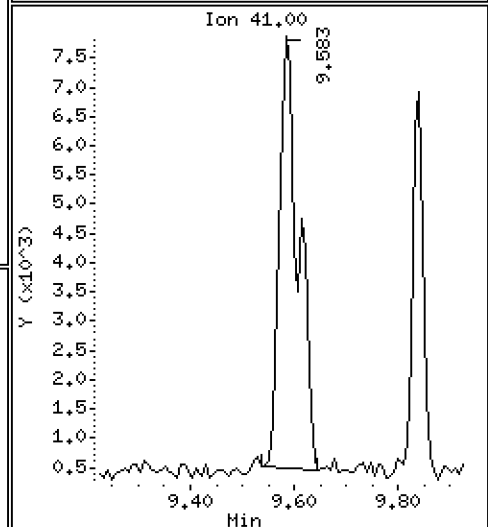
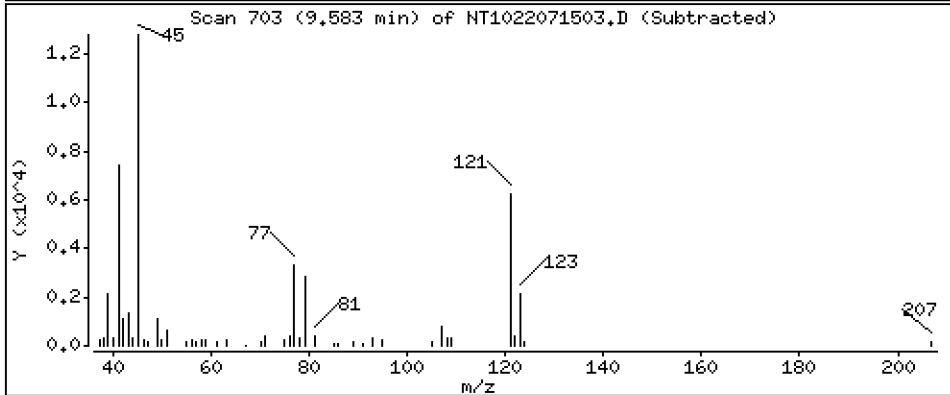
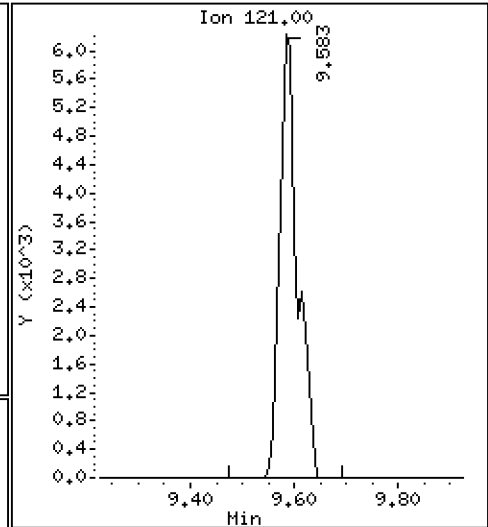
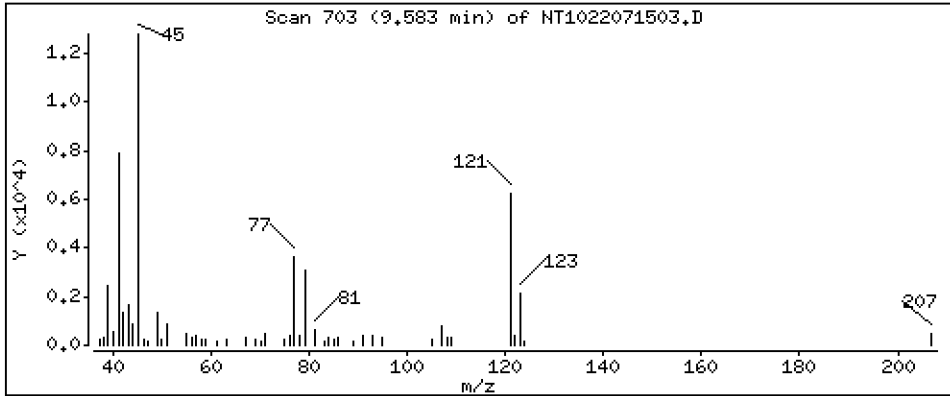
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,7305 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

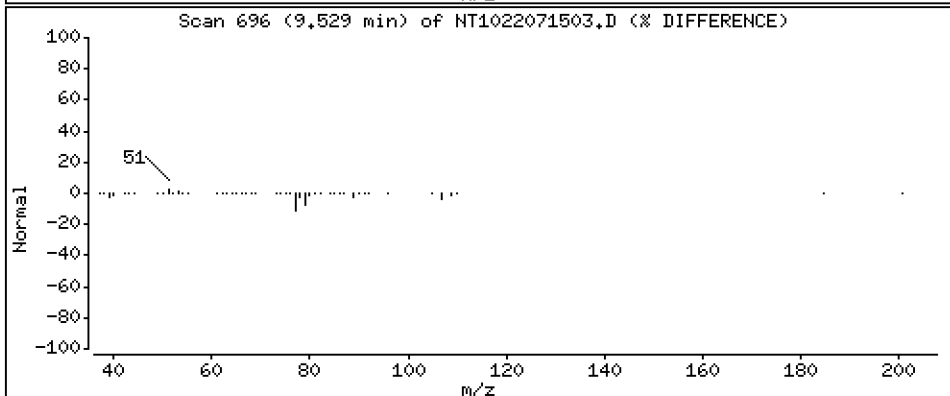
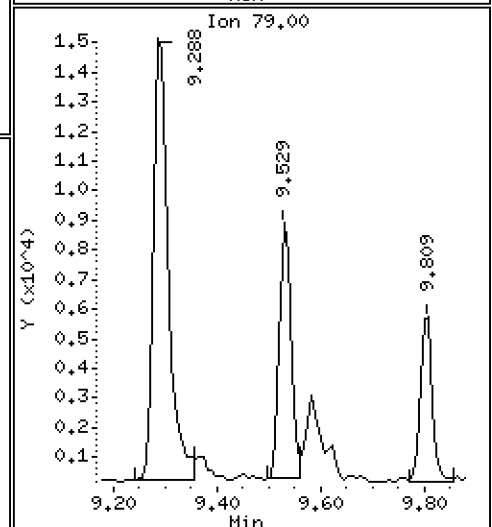
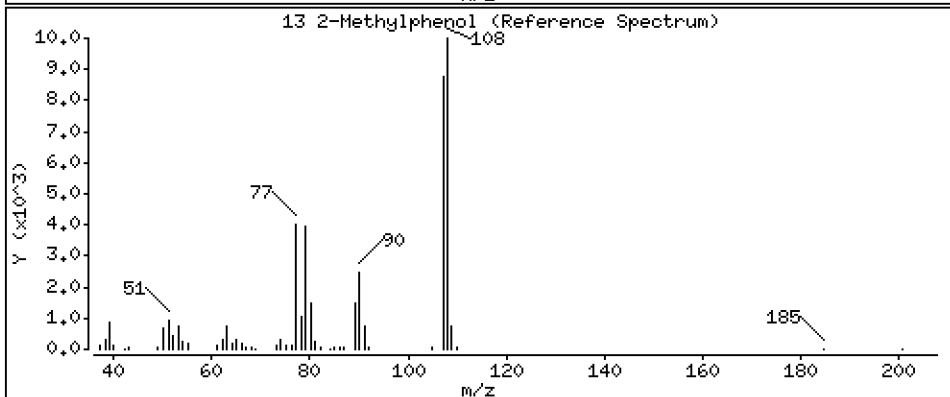
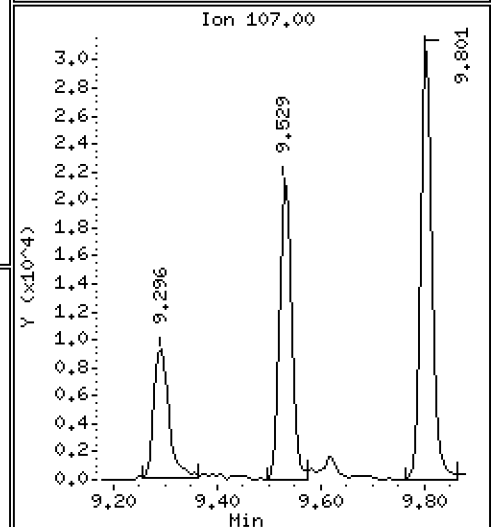
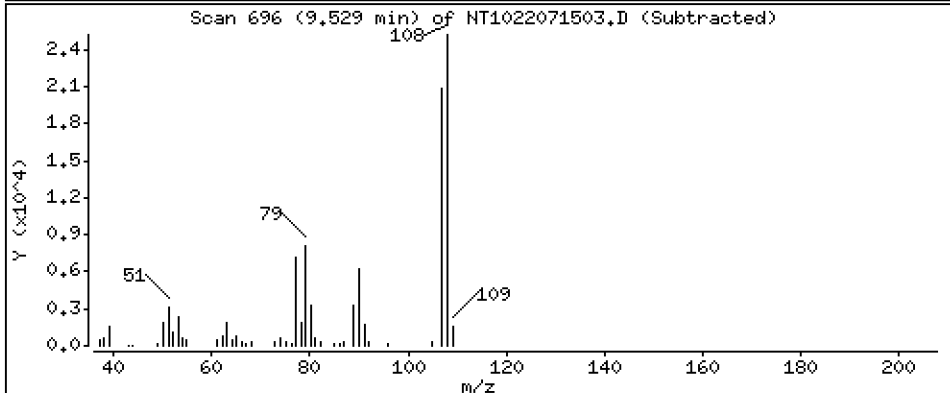
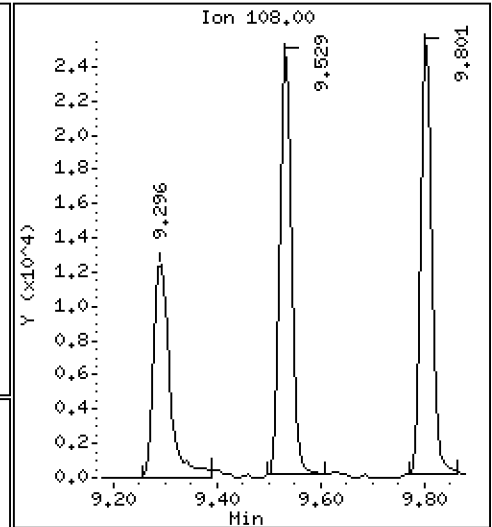
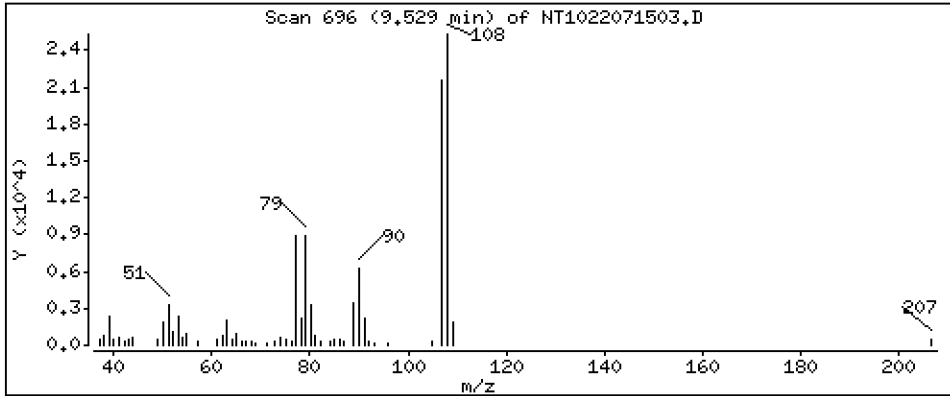
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.4978 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

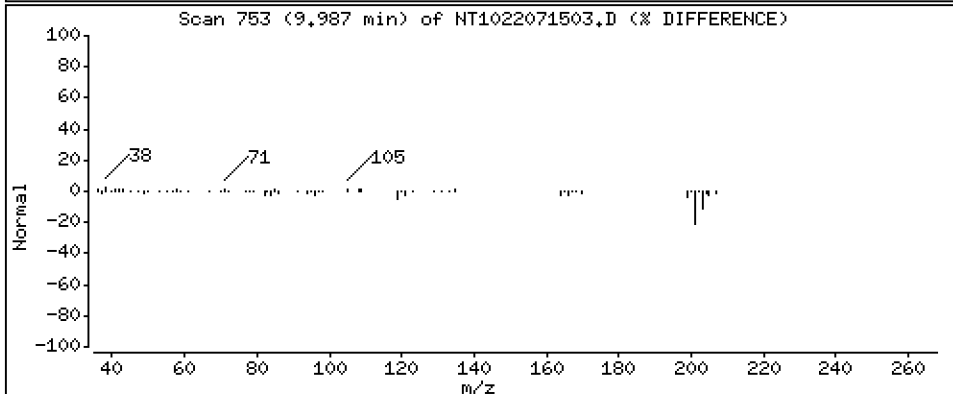
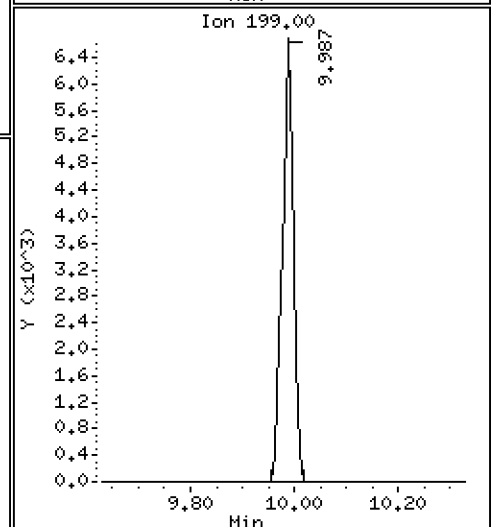
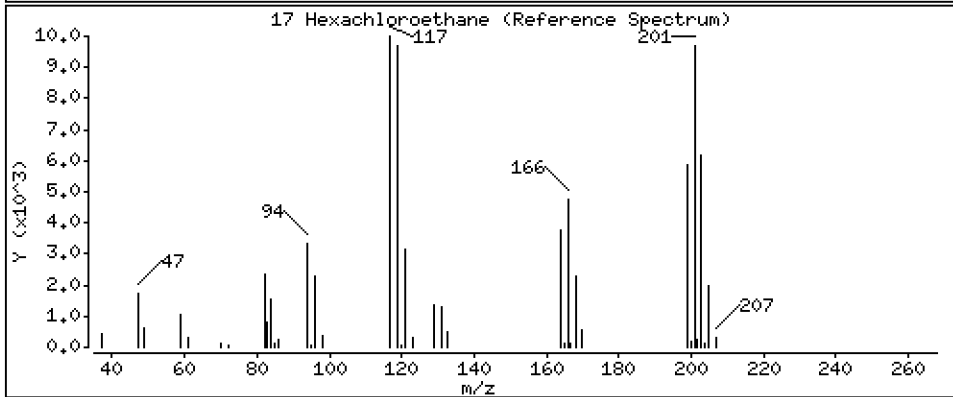
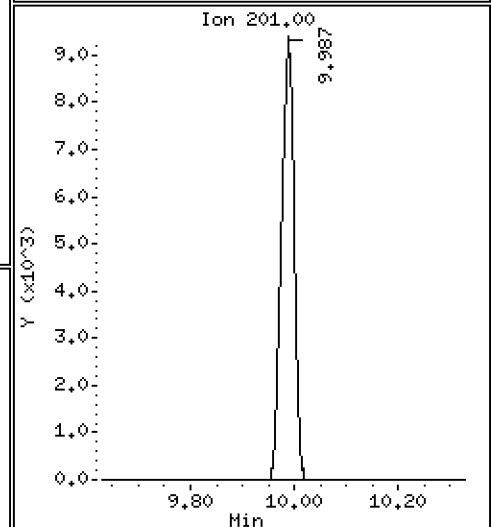
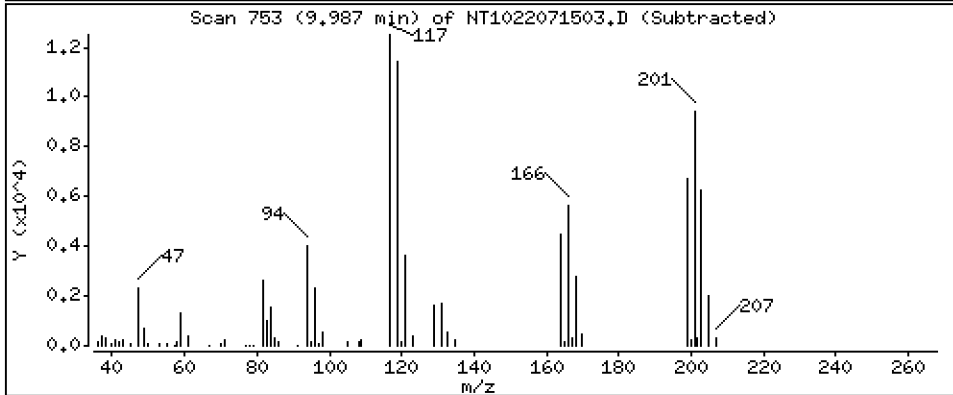
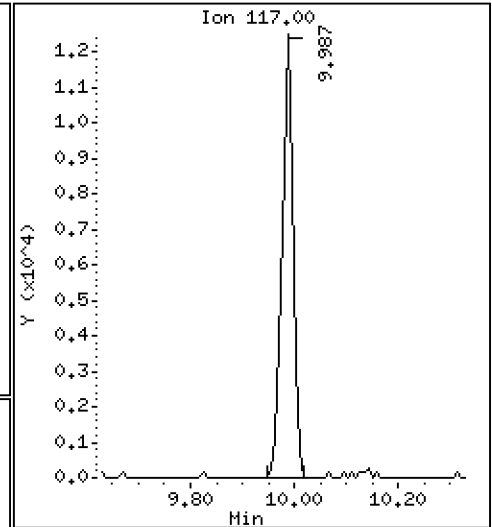
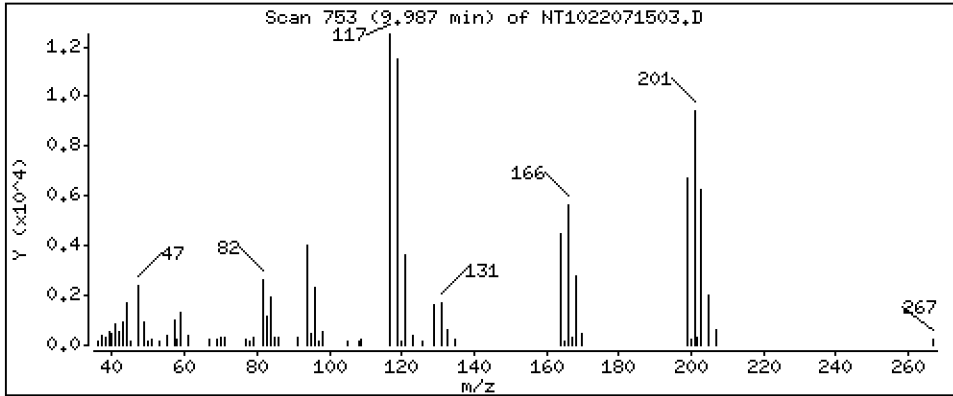
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,4938 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

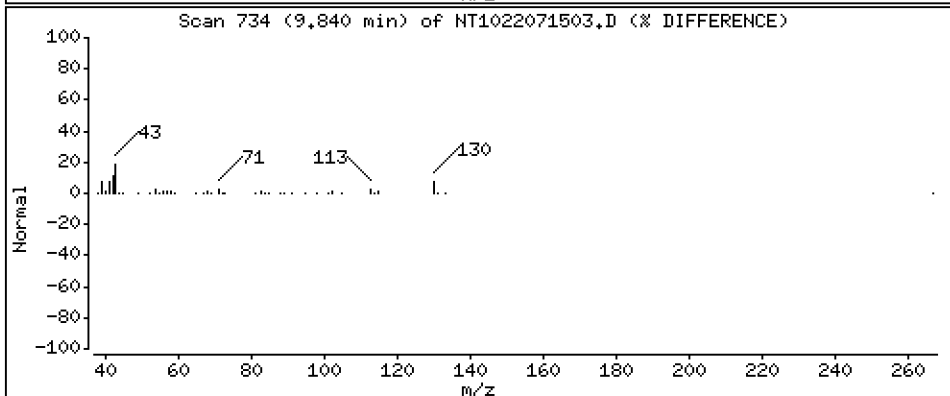
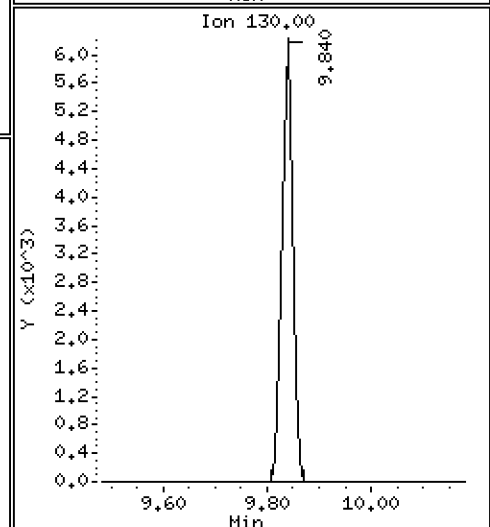
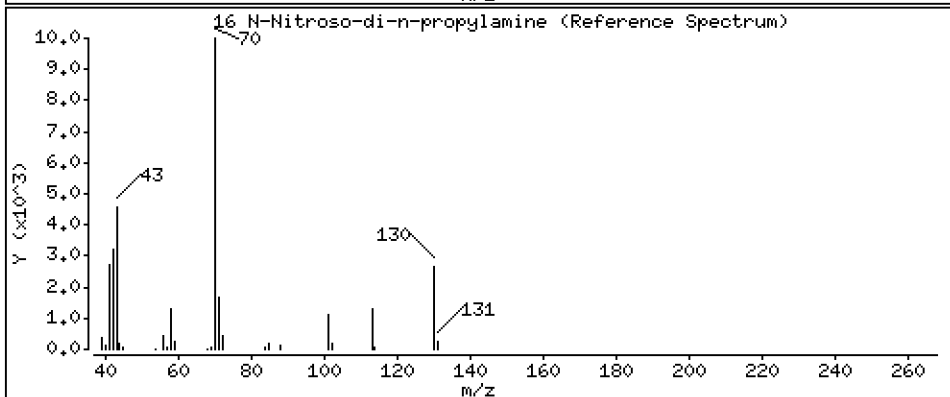
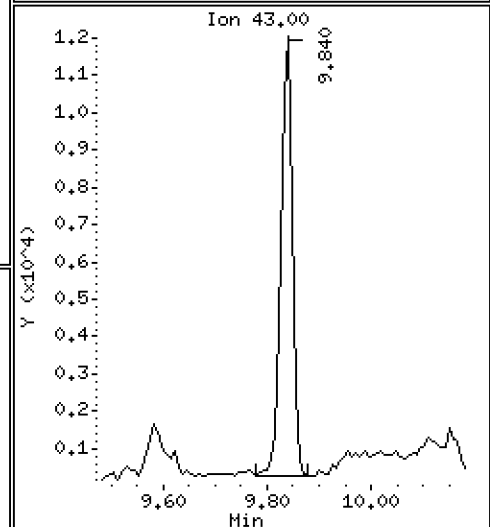
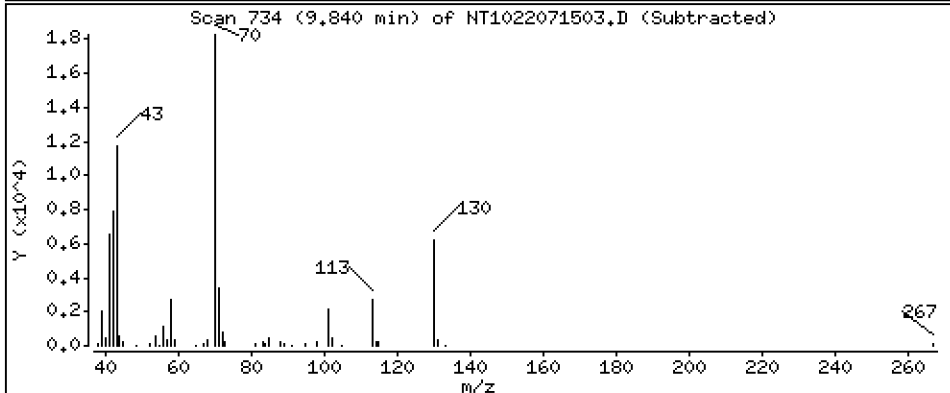
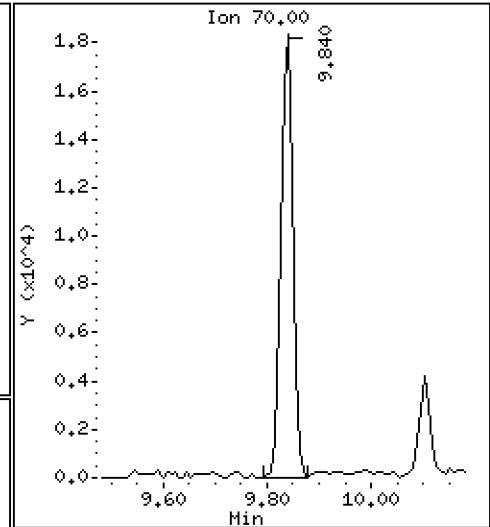
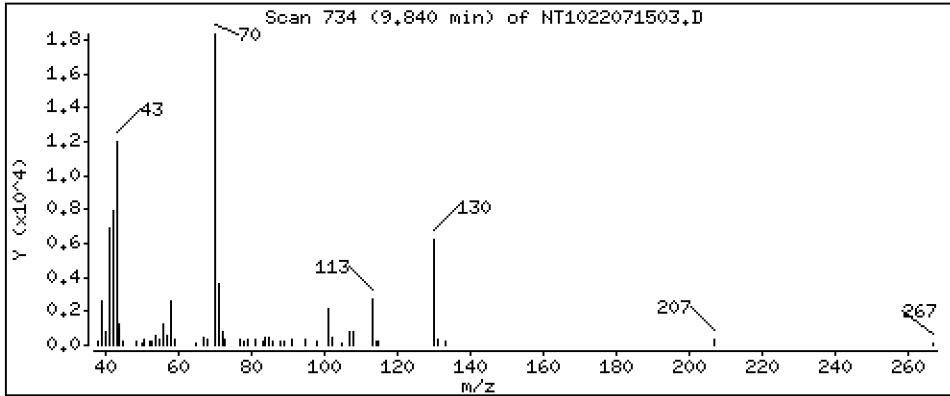
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,5534 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

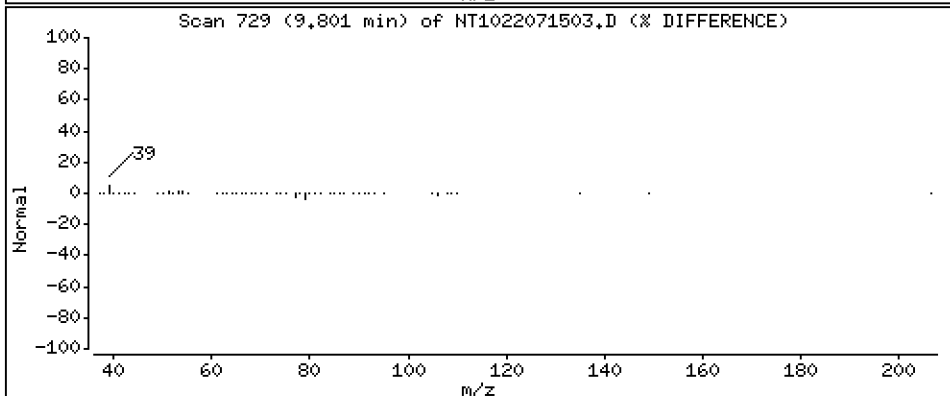
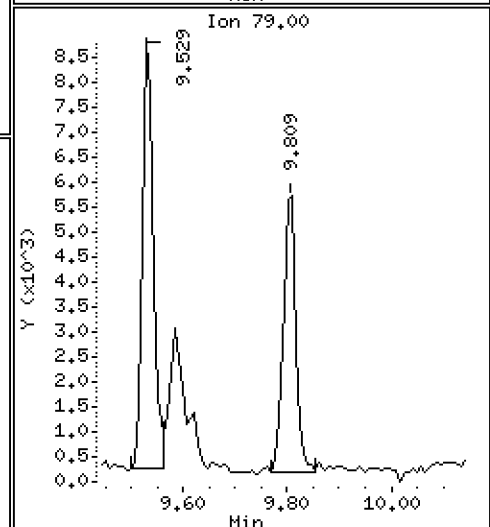
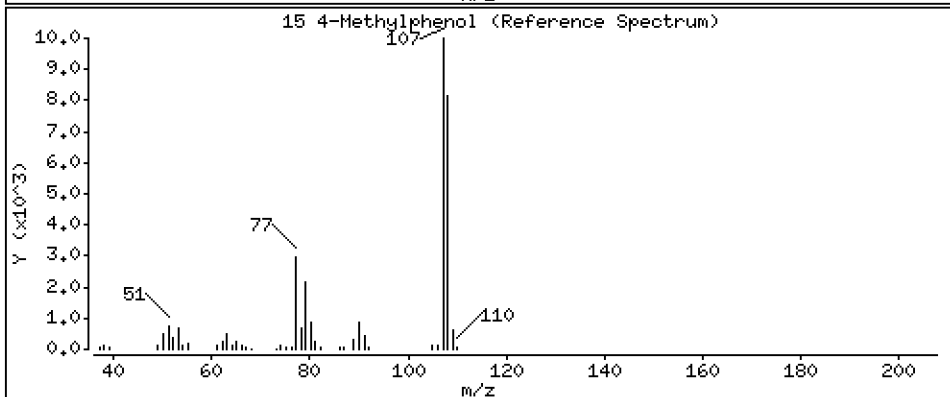
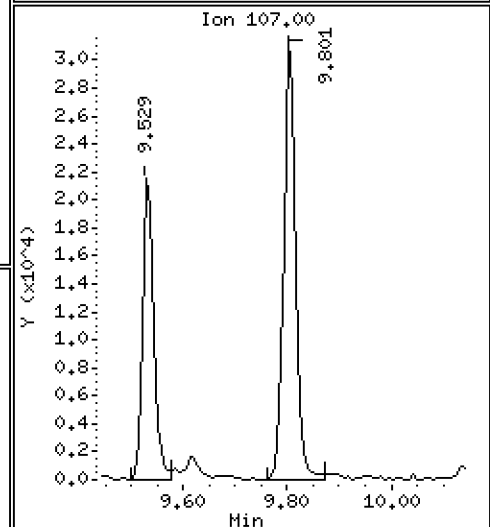
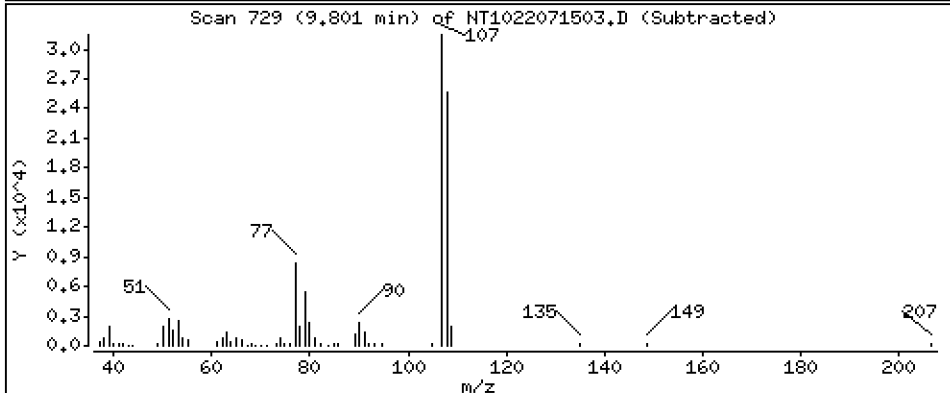
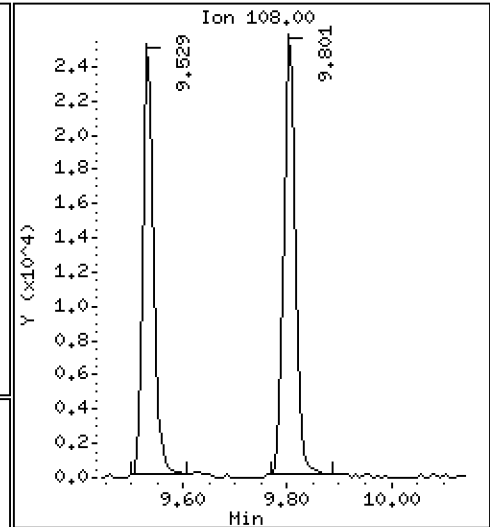
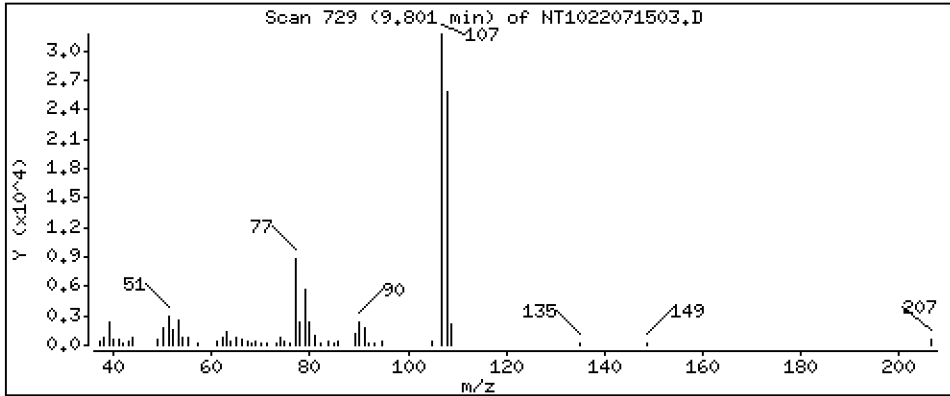
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,5044 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

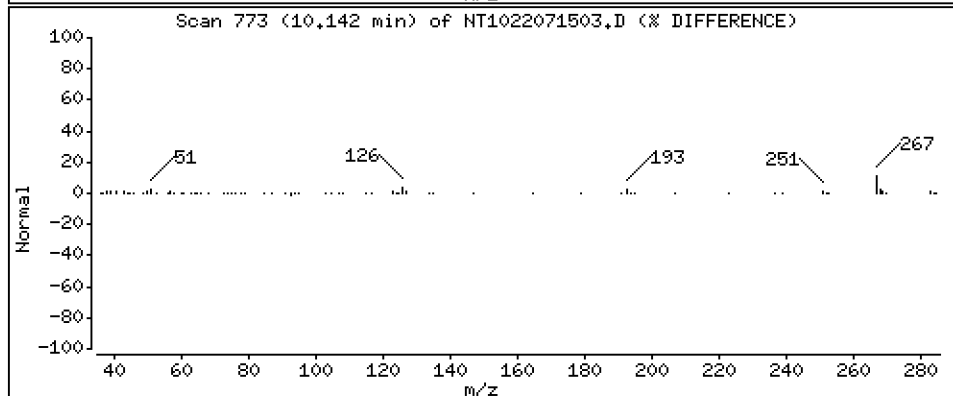
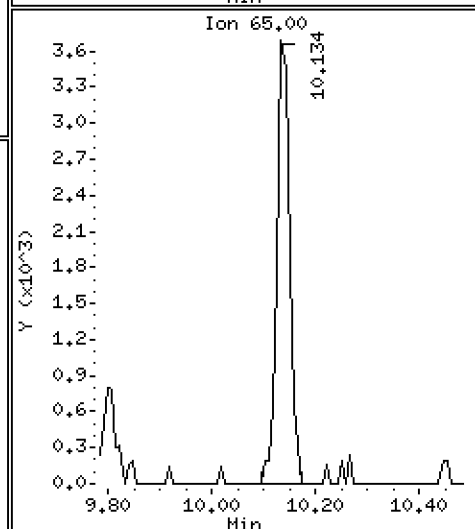
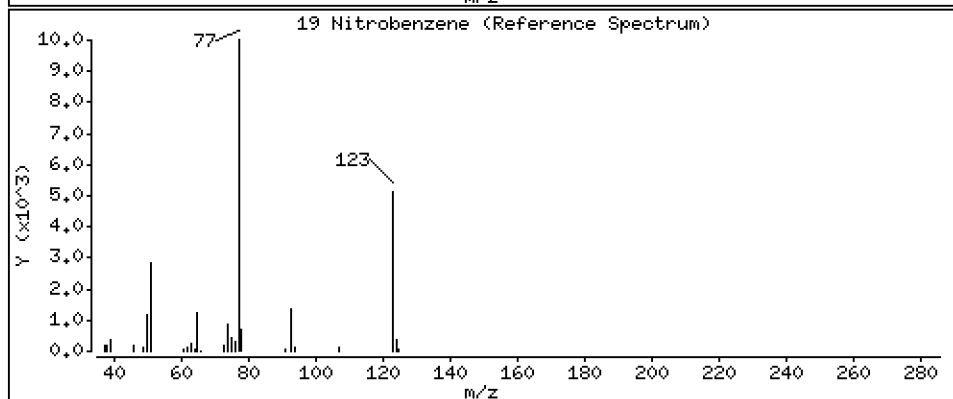
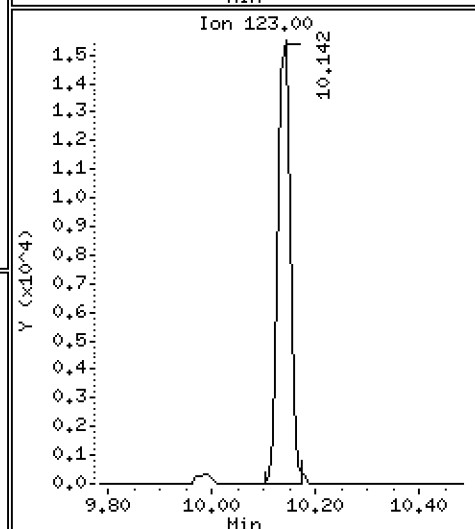
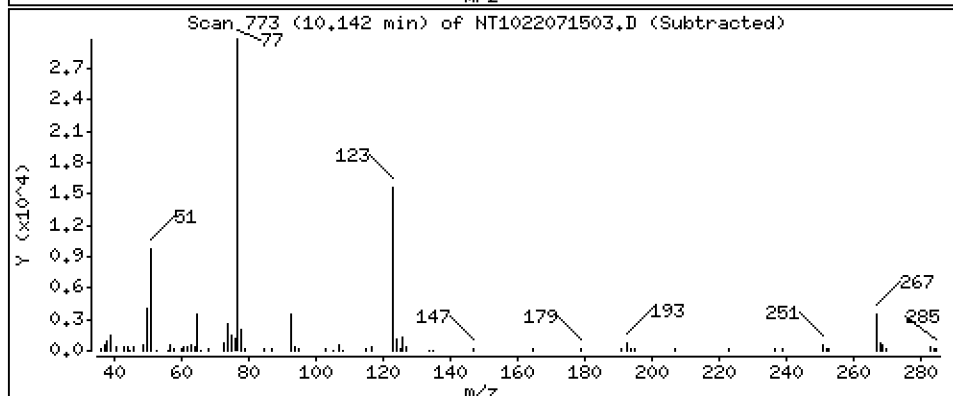
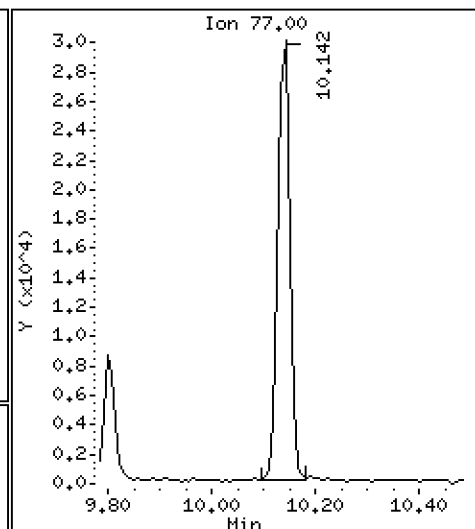
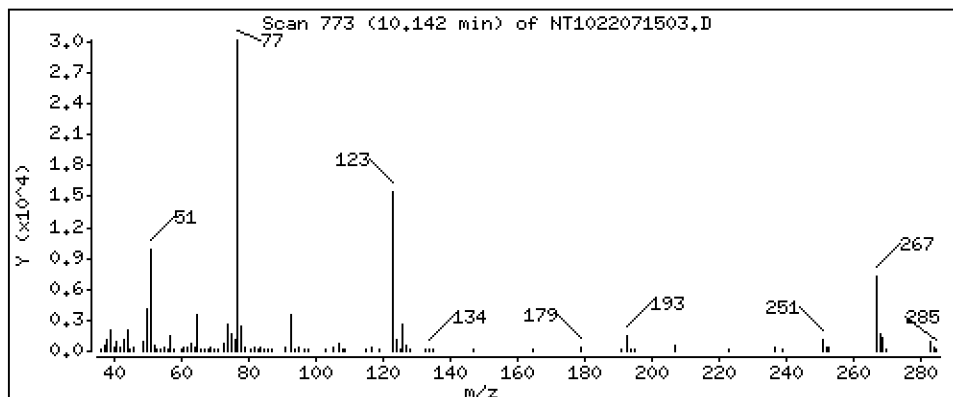
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,5462 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

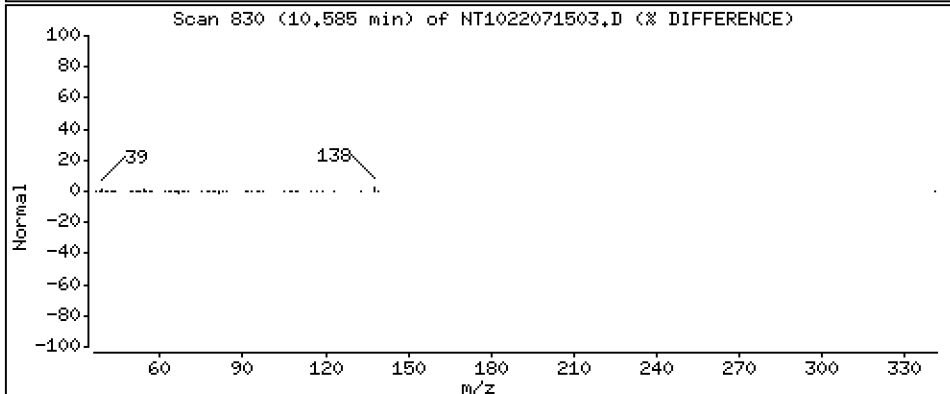
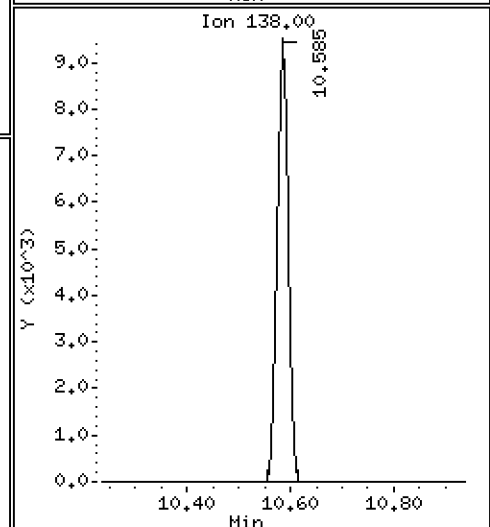
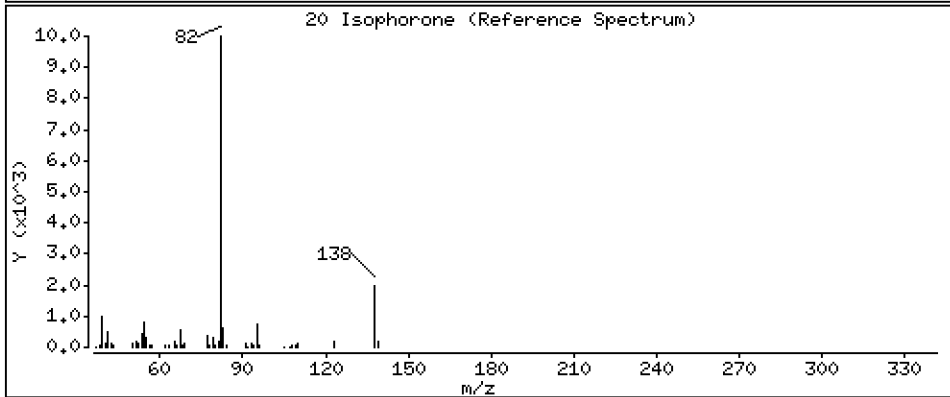
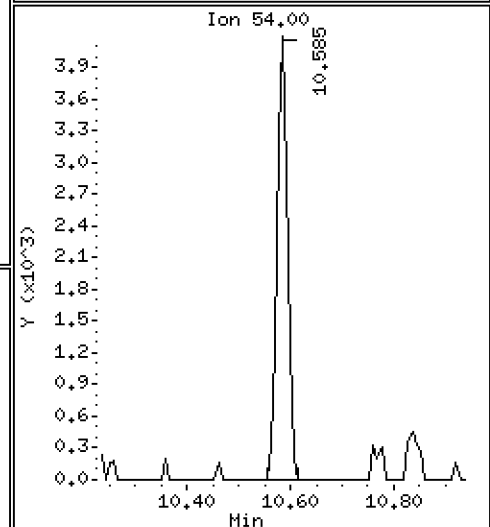
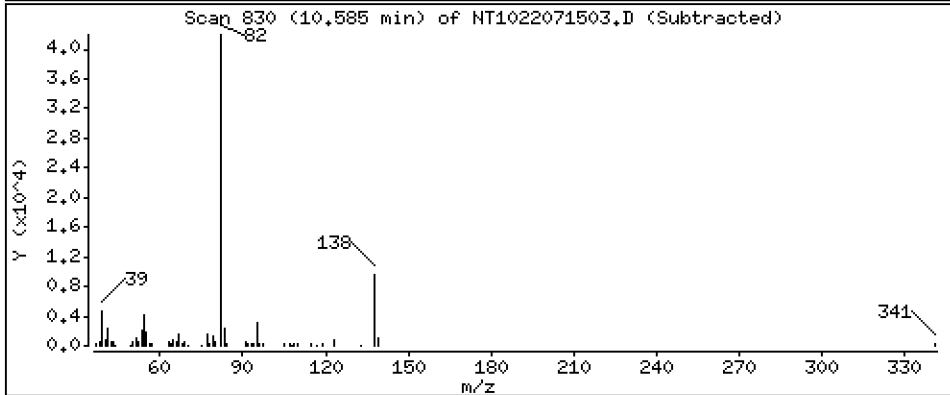
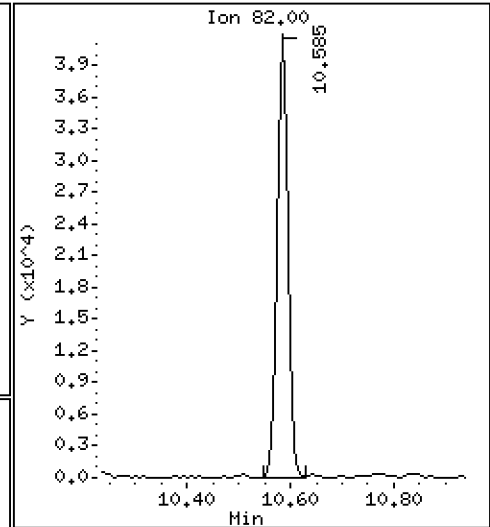
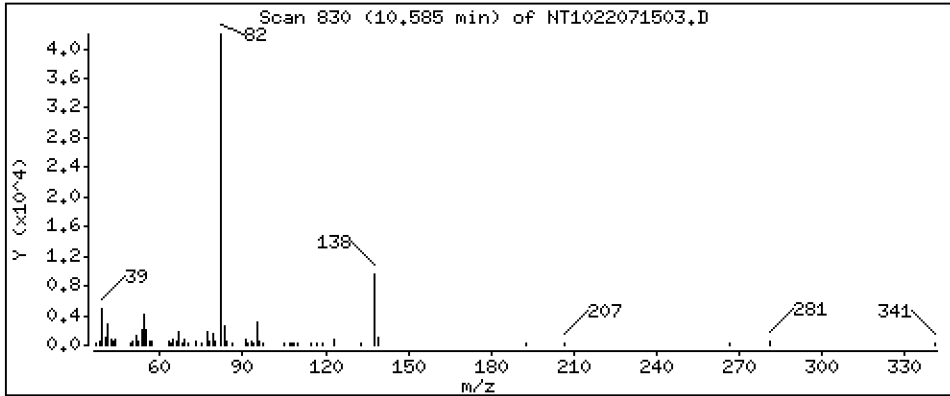
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,5322 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

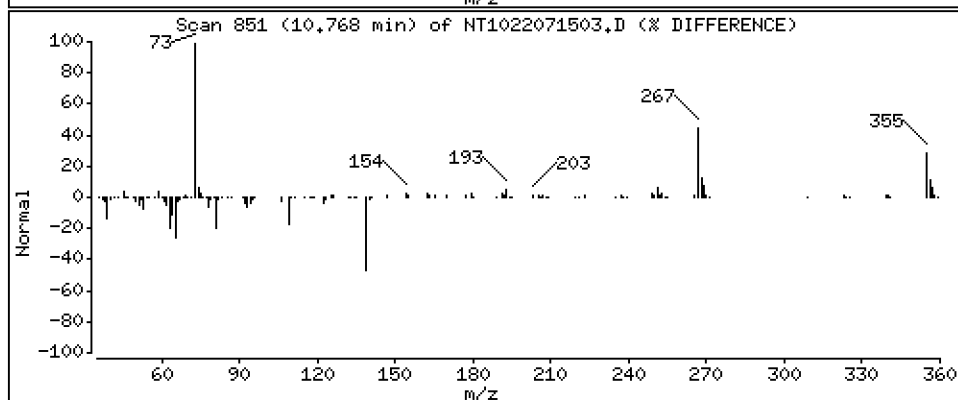
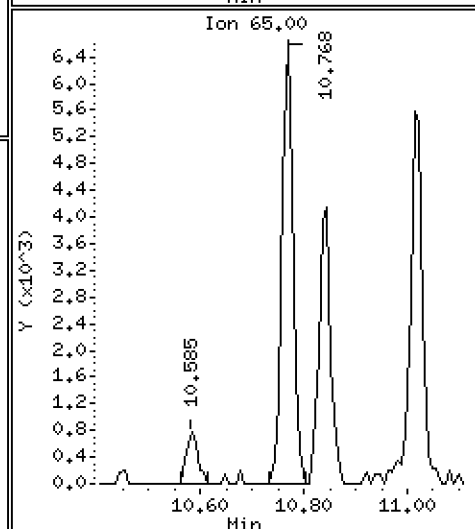
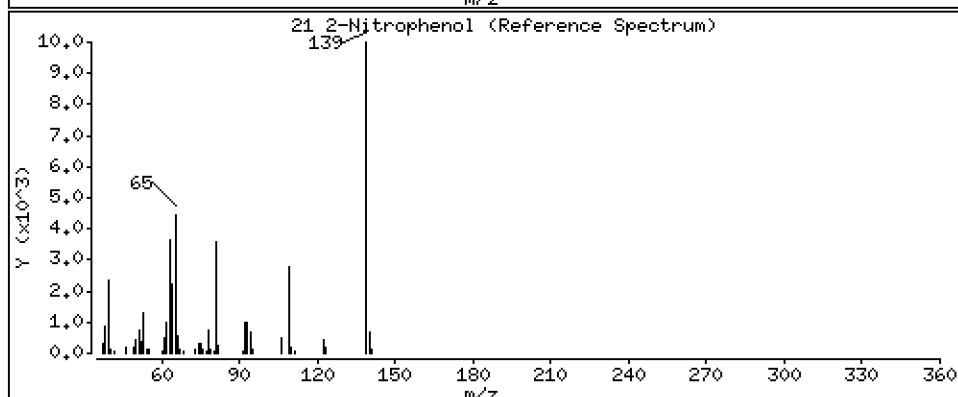
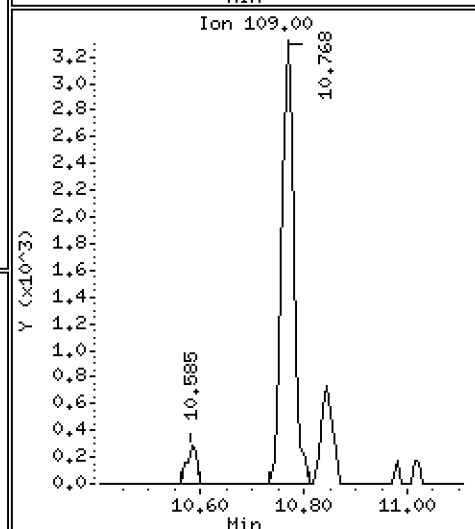
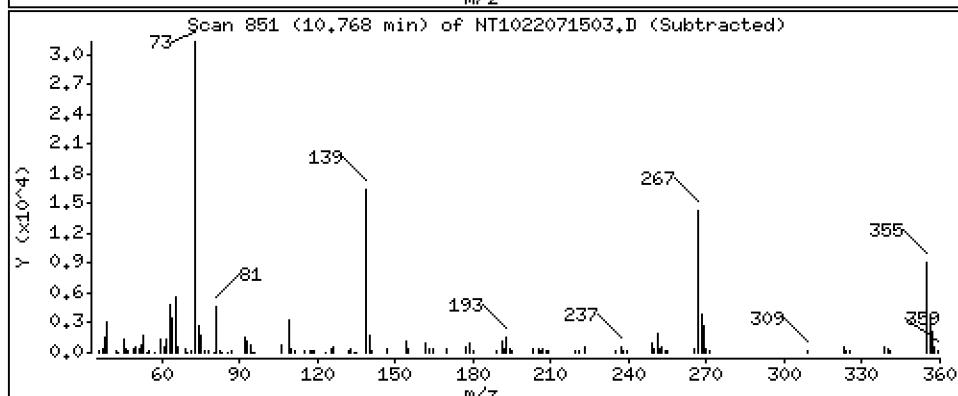
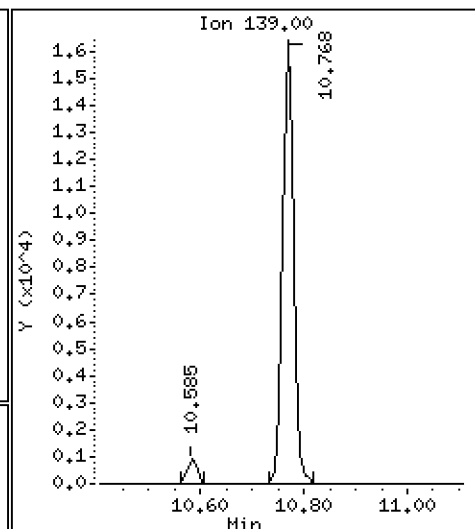
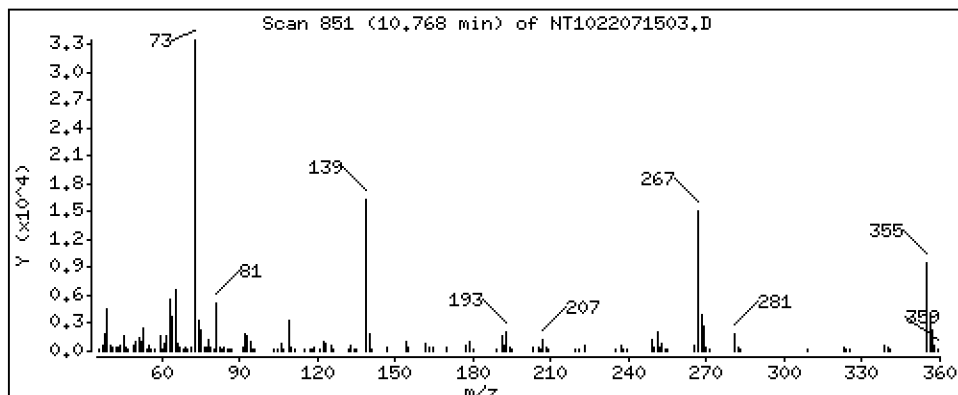
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

21 2-Nitrophenol

Concentration: 0.4647 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

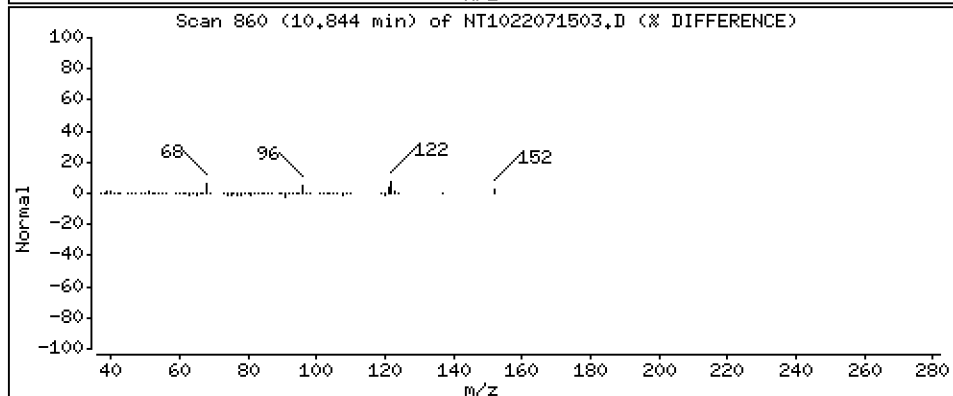
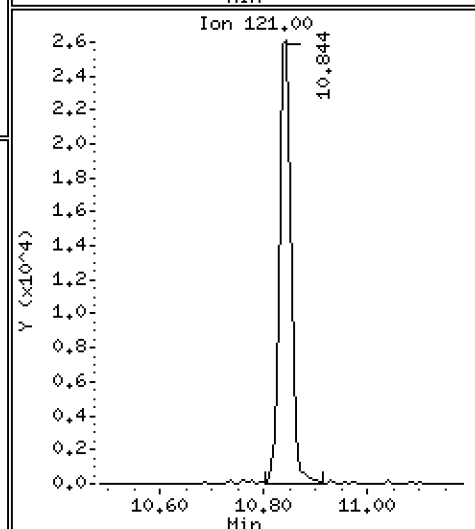
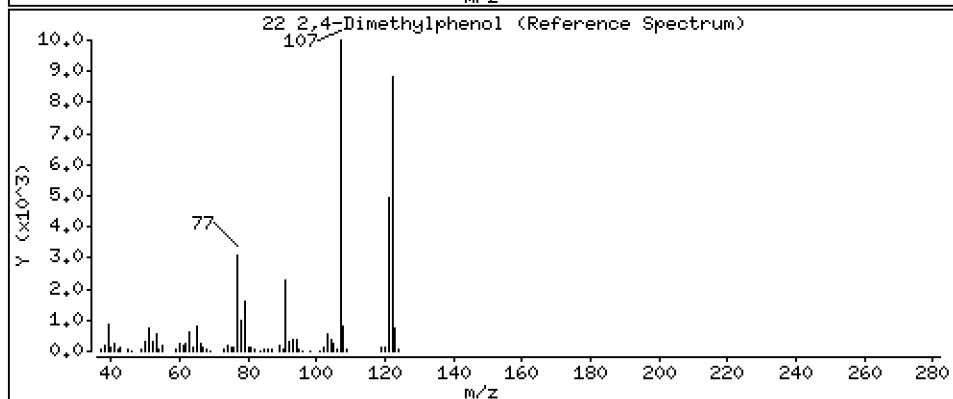
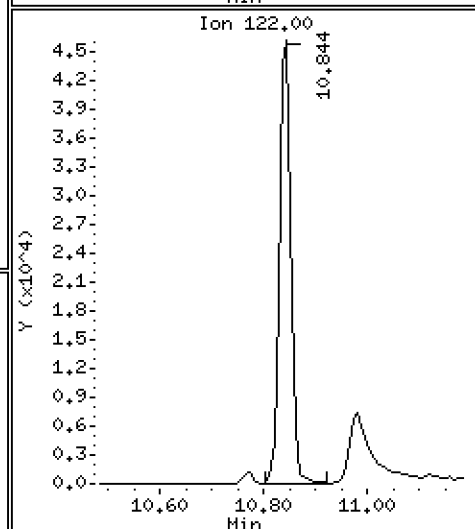
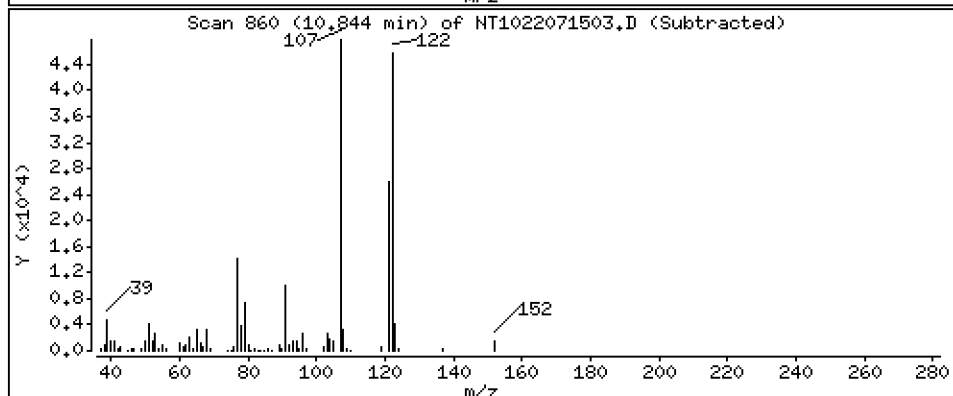
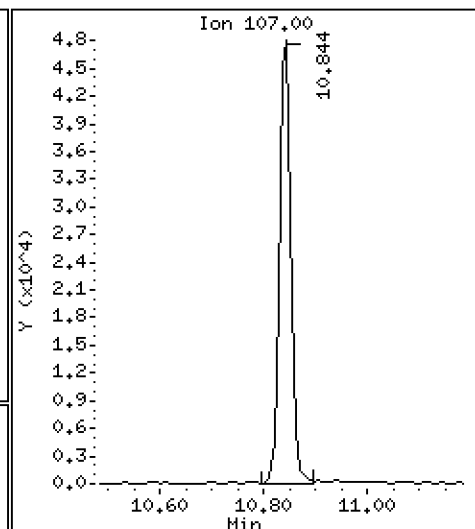
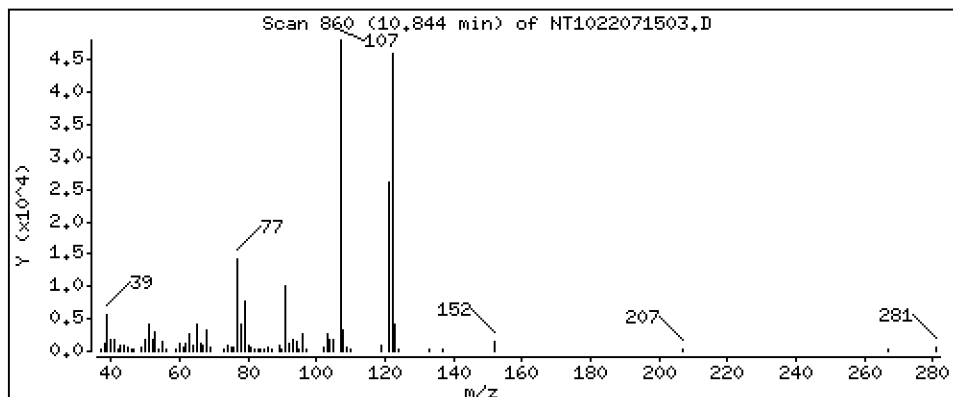
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,173 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

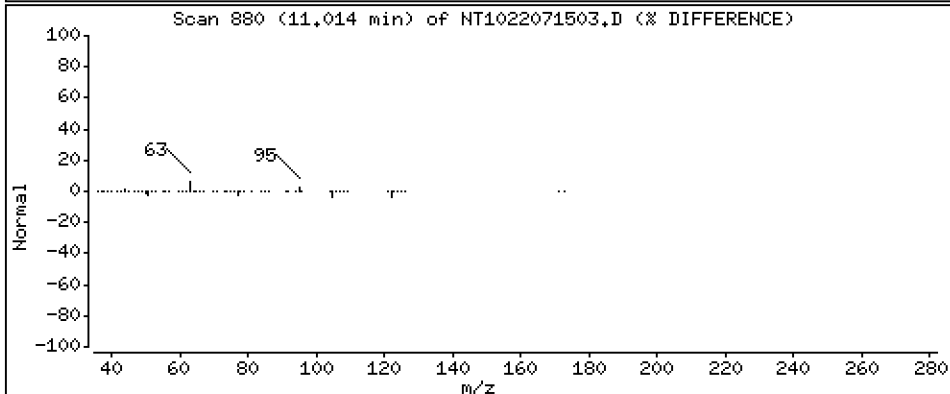
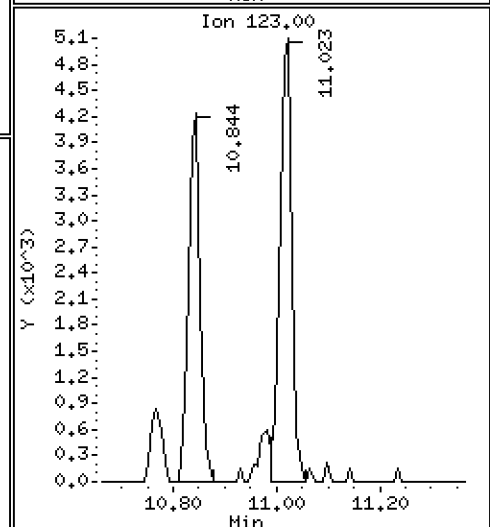
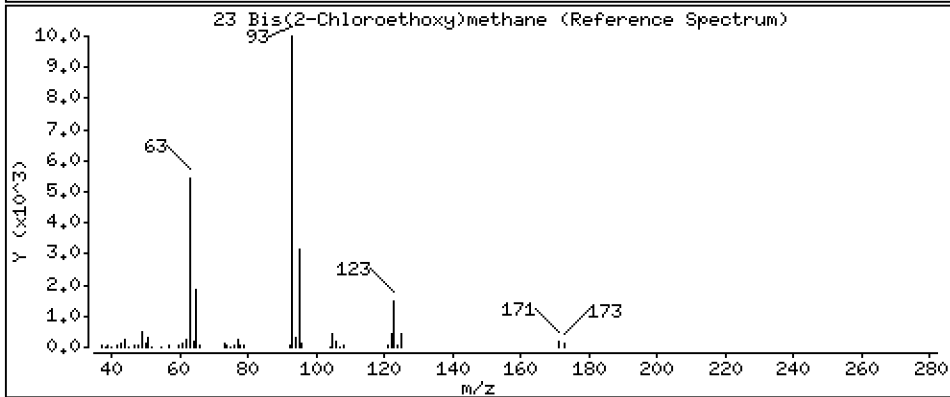
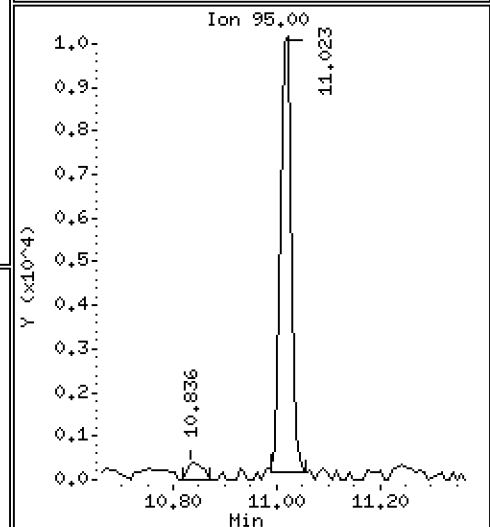
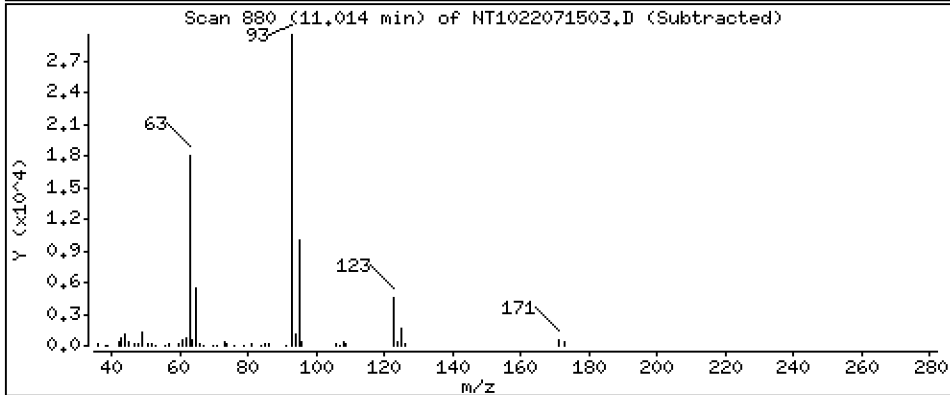
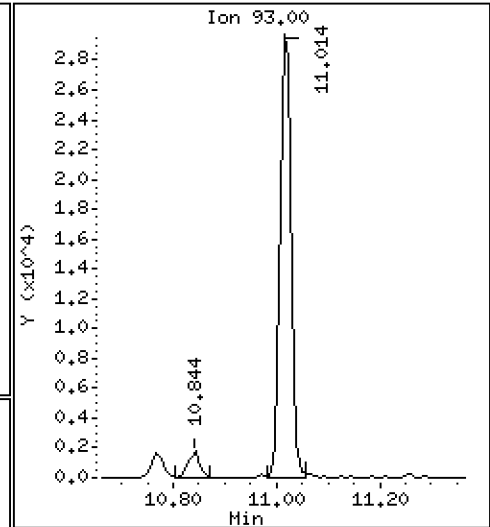
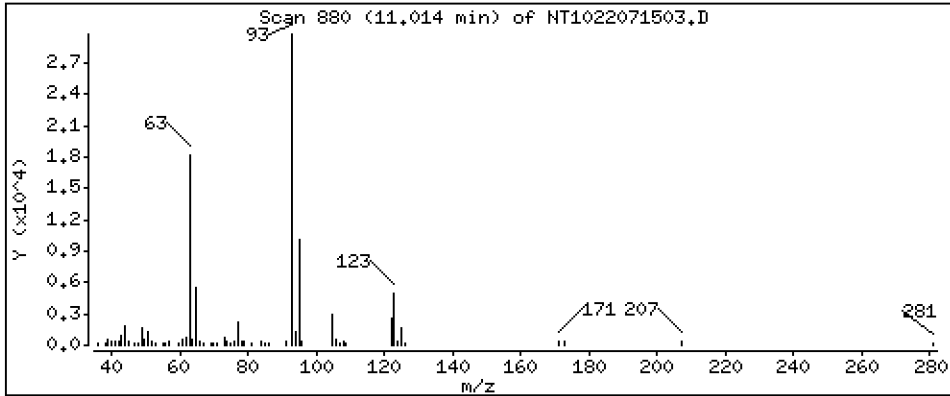
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,6259 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

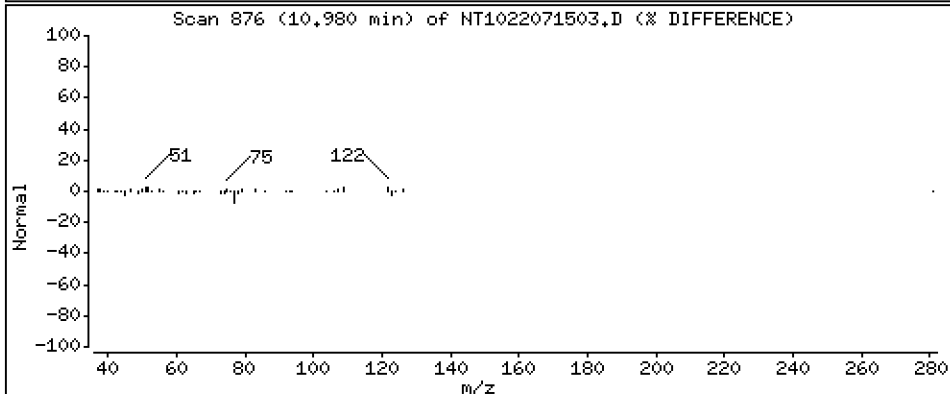
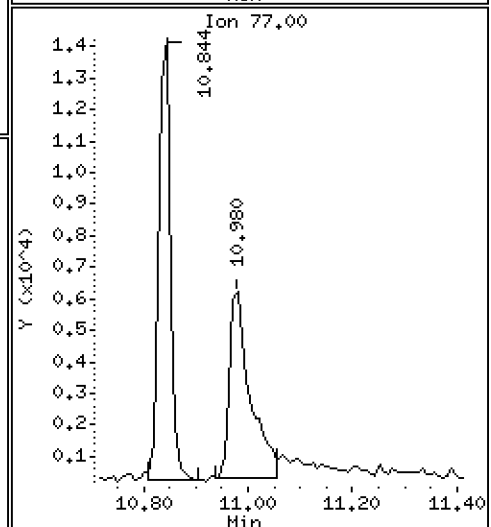
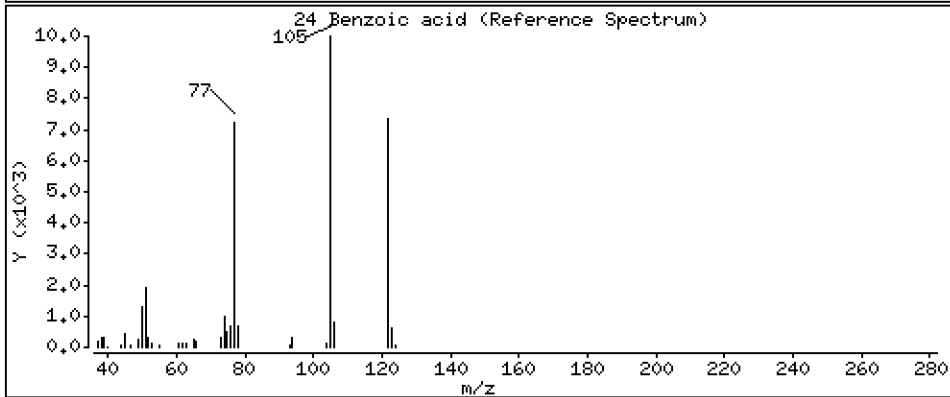
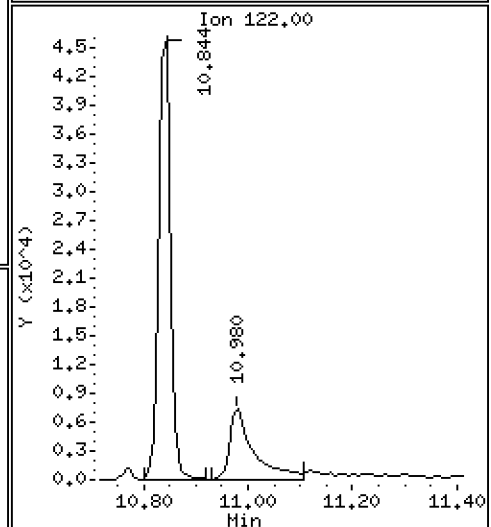
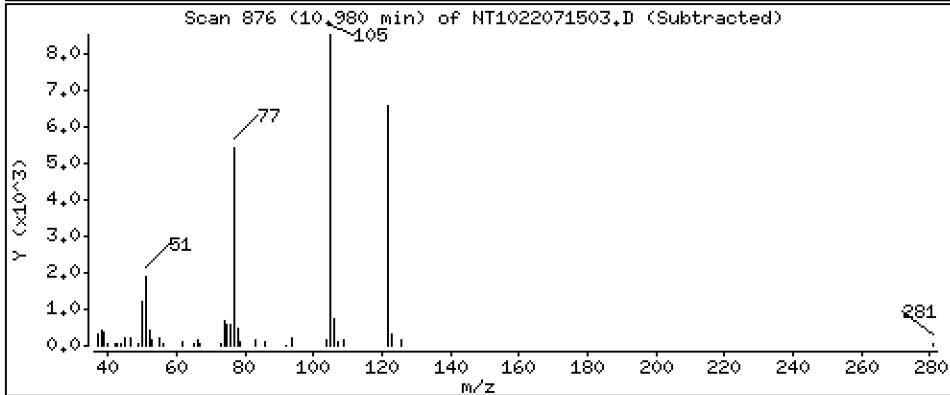
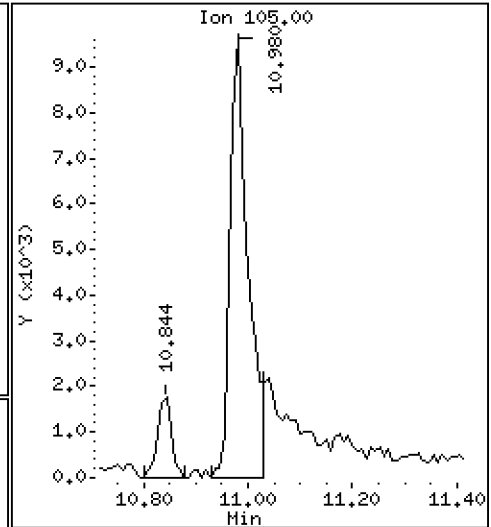
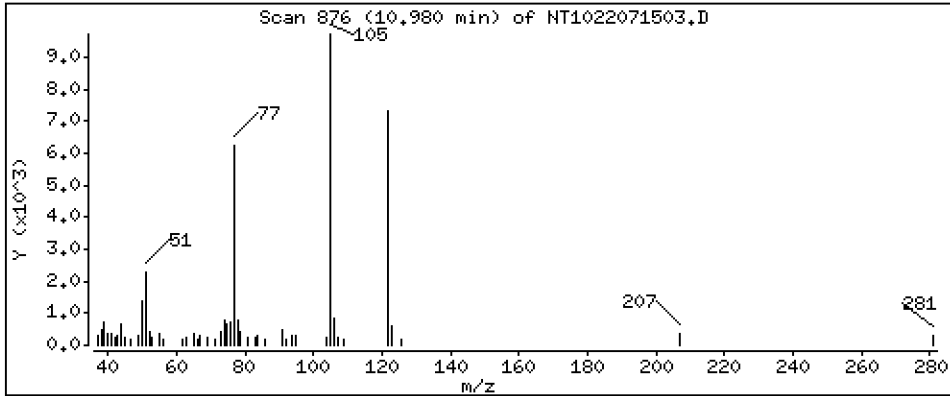
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,7215 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

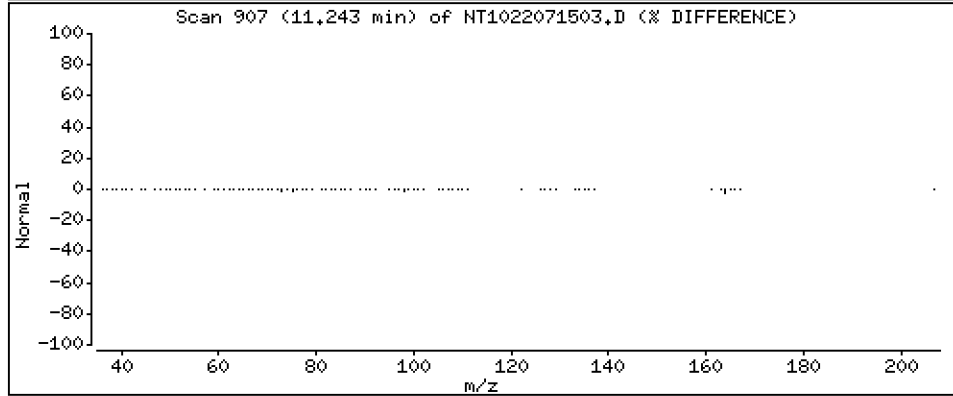
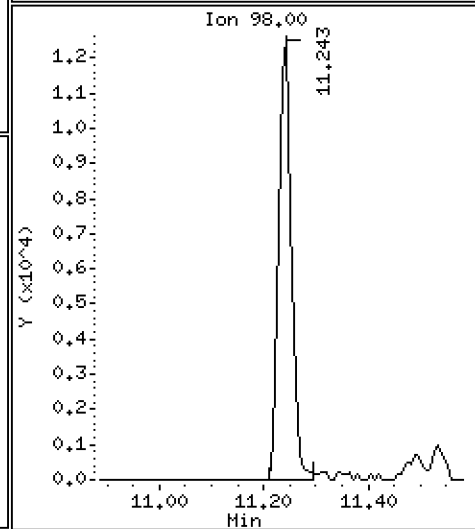
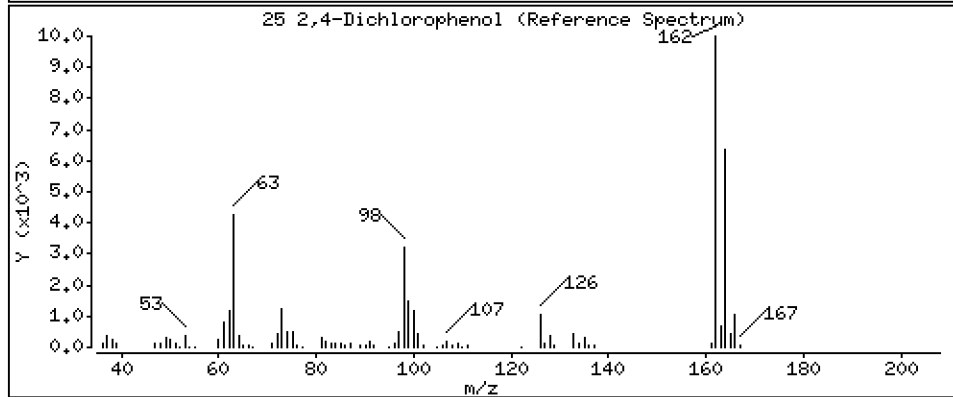
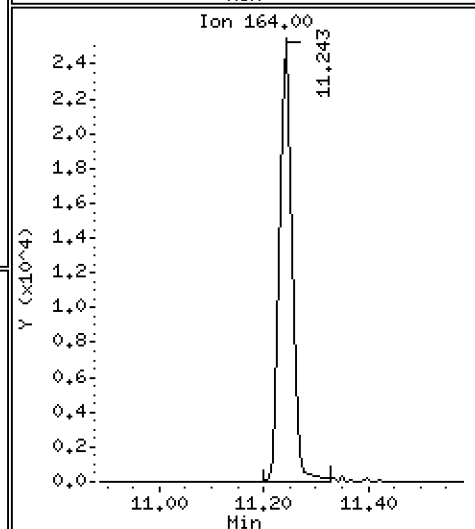
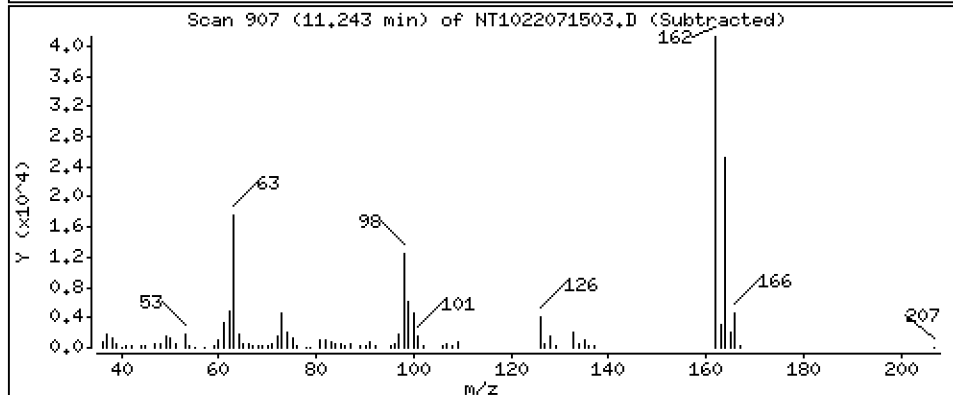
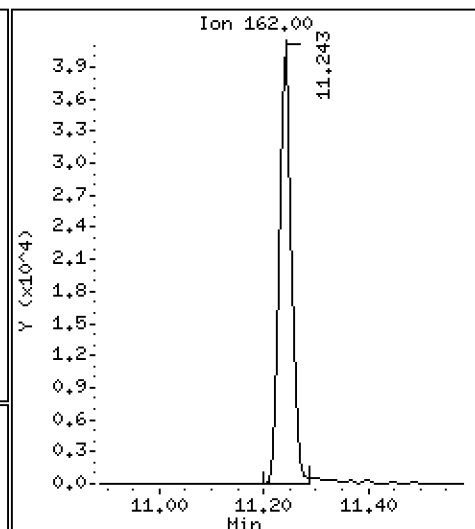
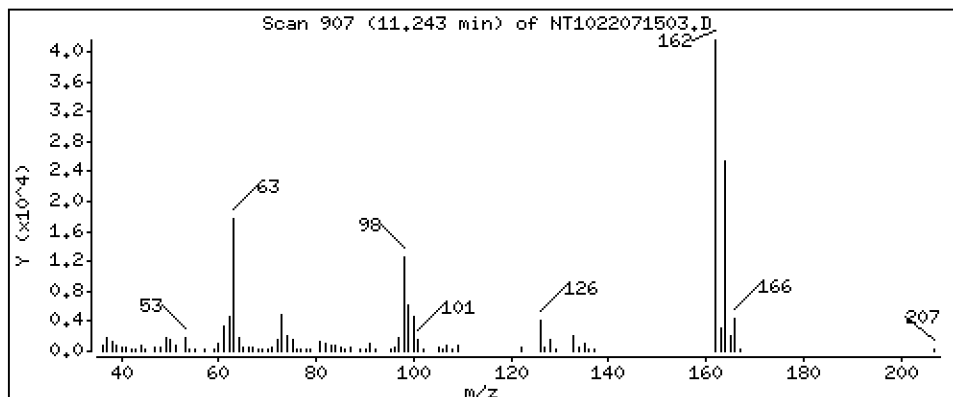
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 1,017 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

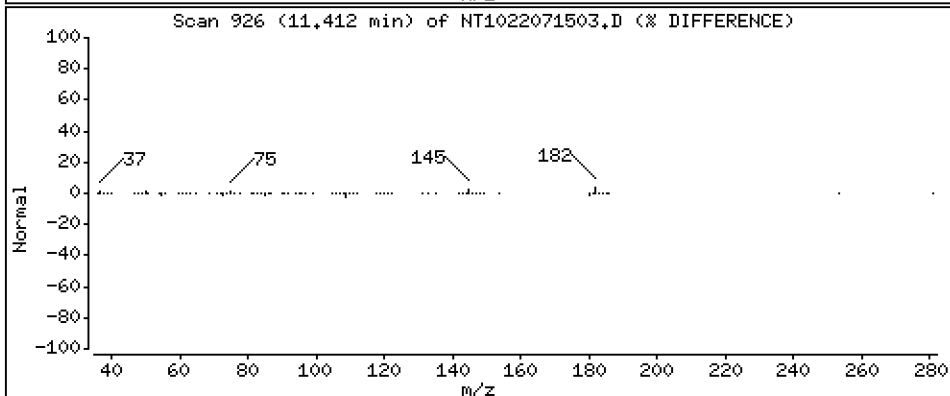
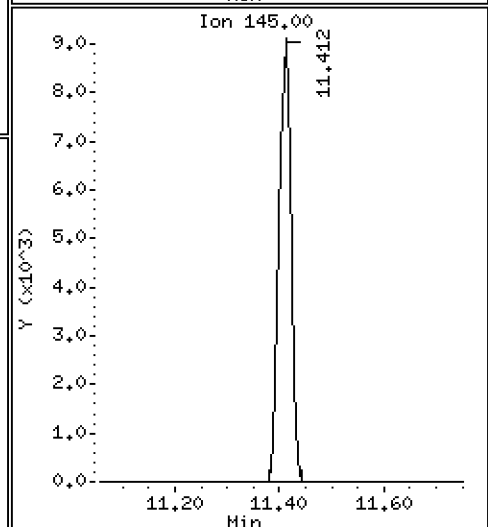
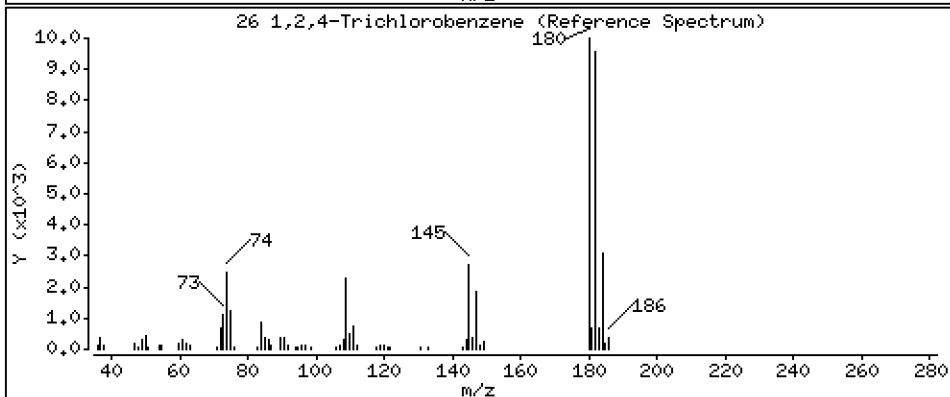
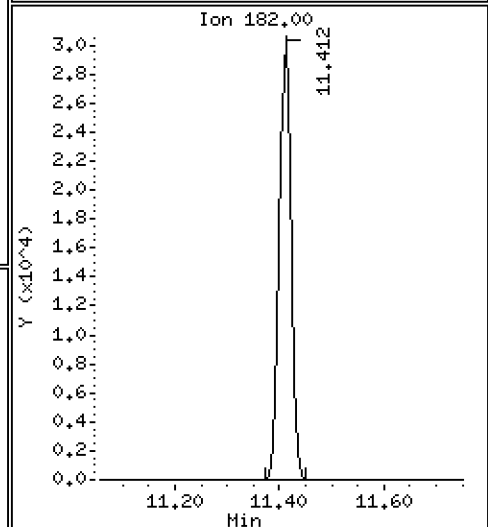
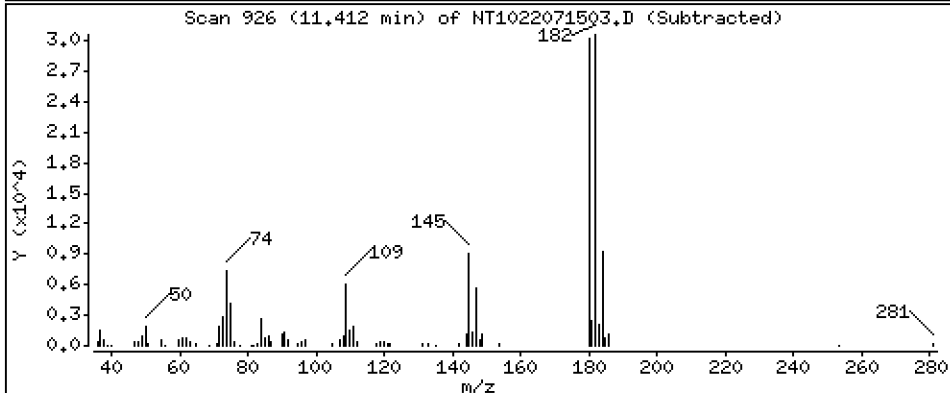
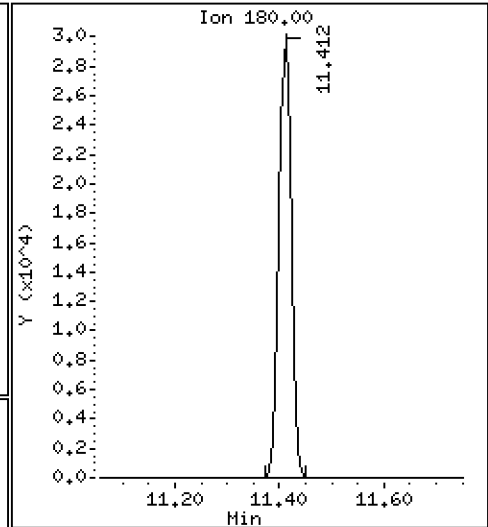
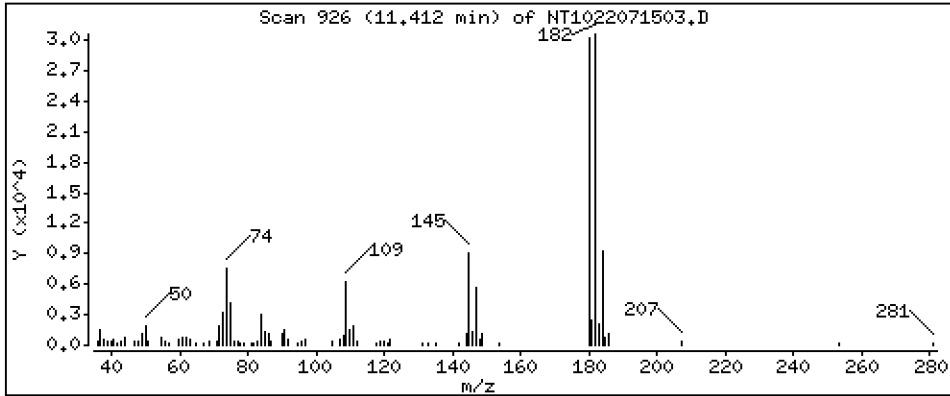
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,6750 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

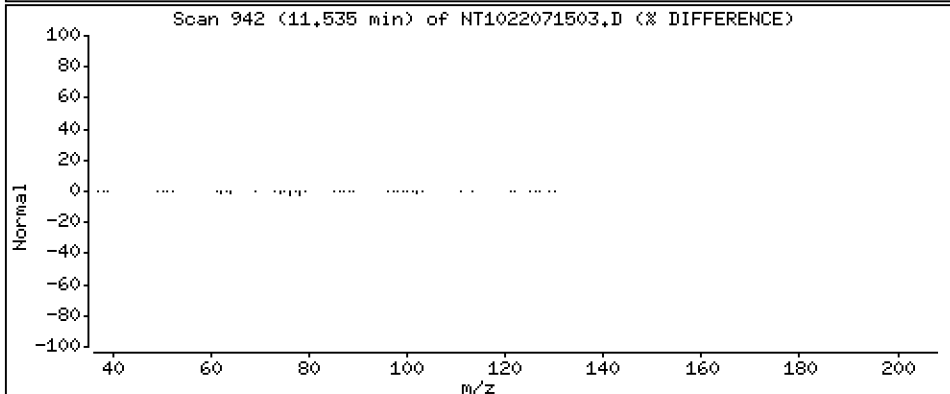
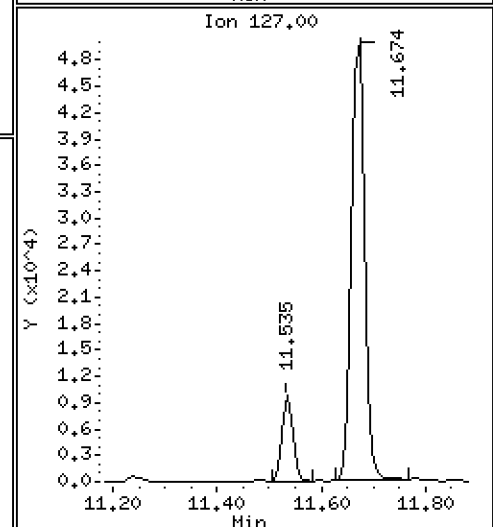
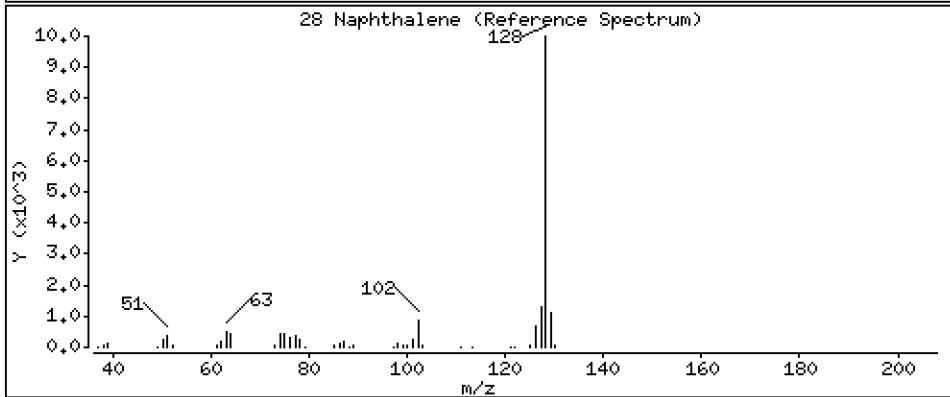
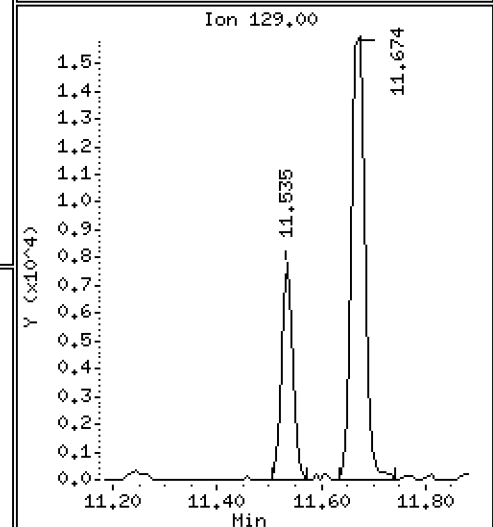
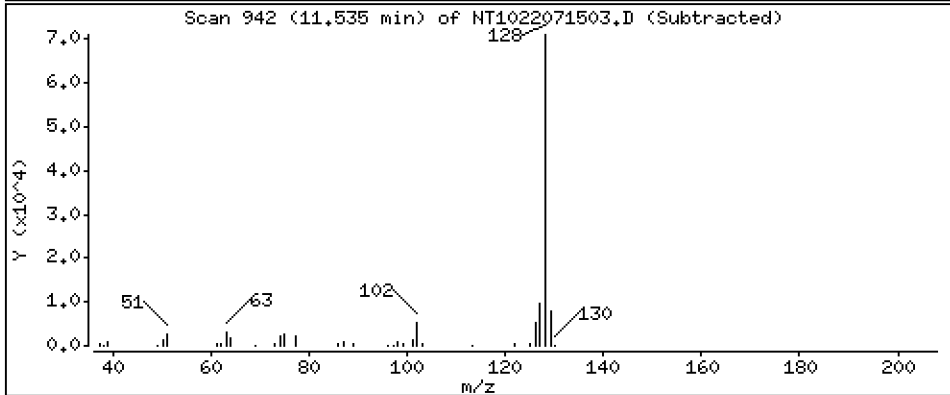
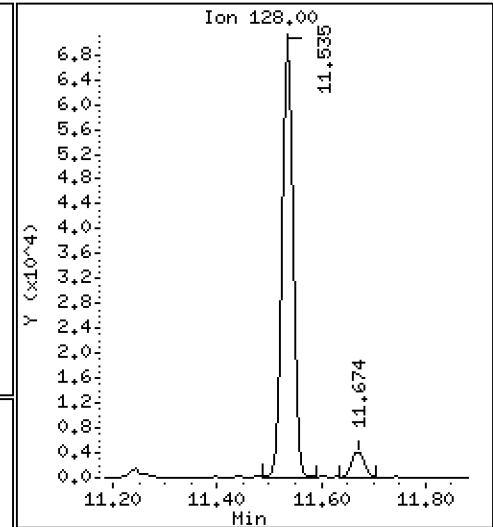
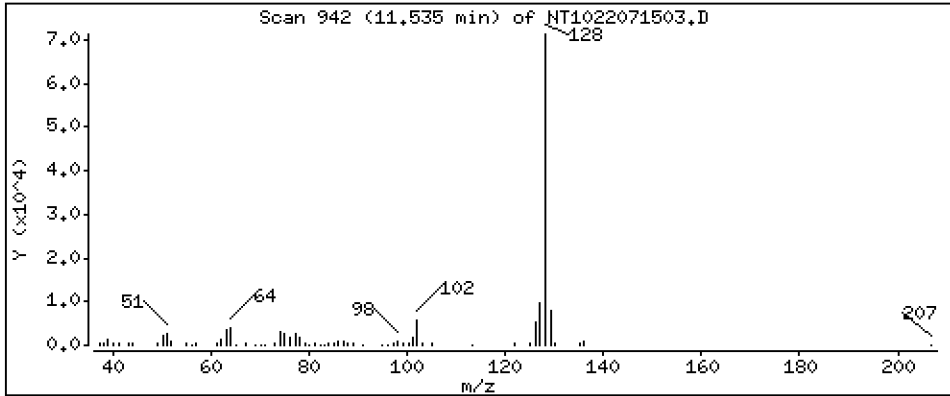
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.5544 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

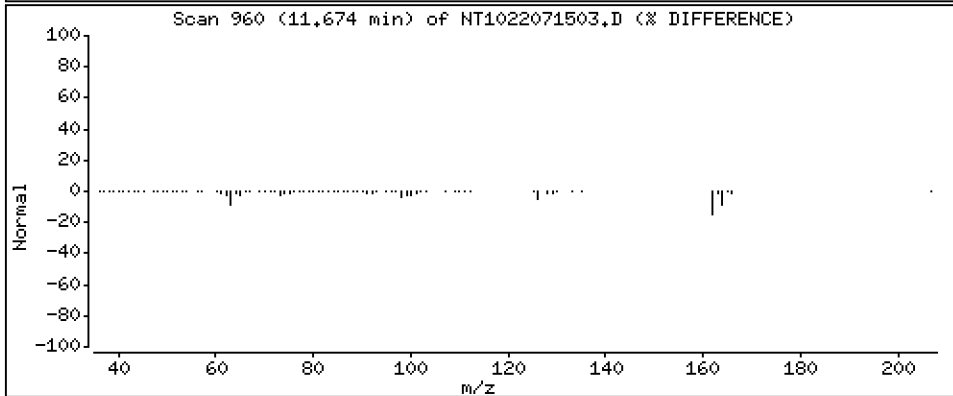
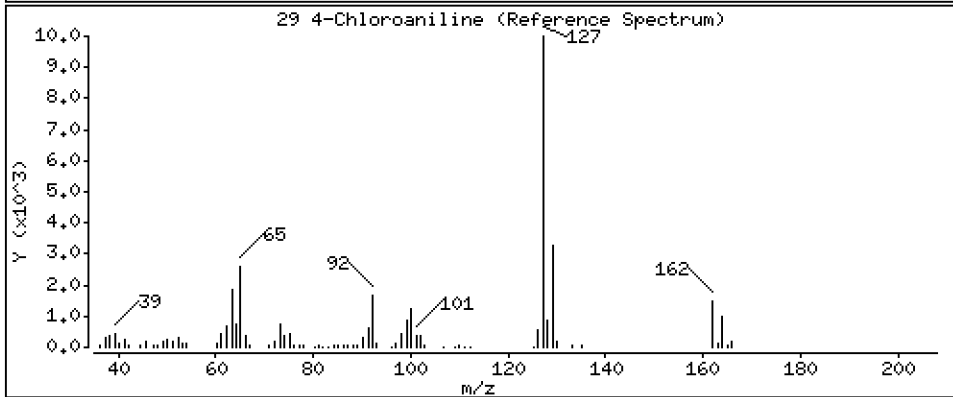
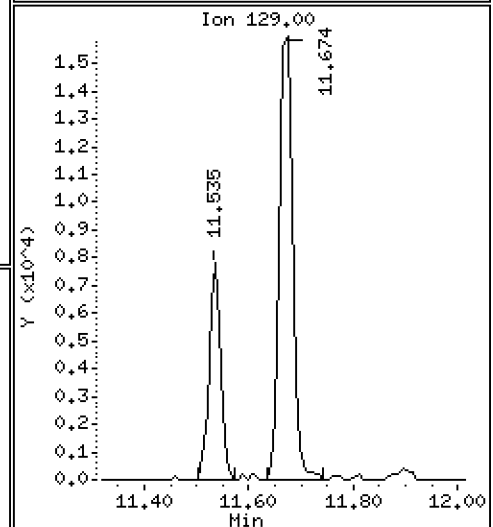
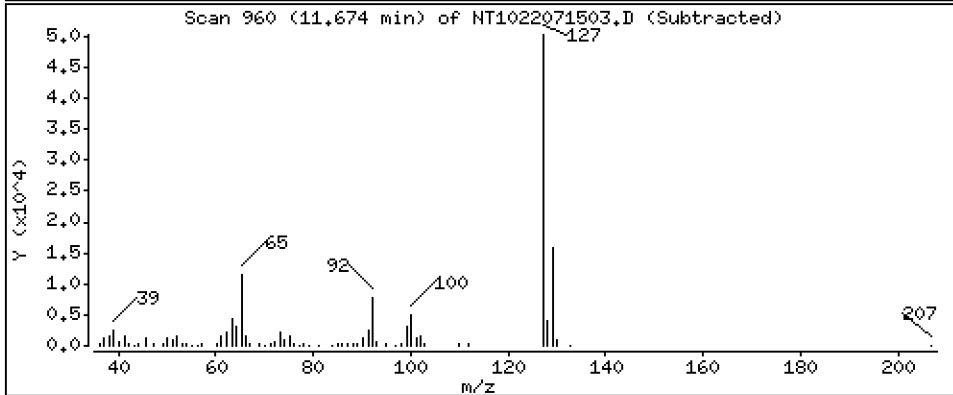
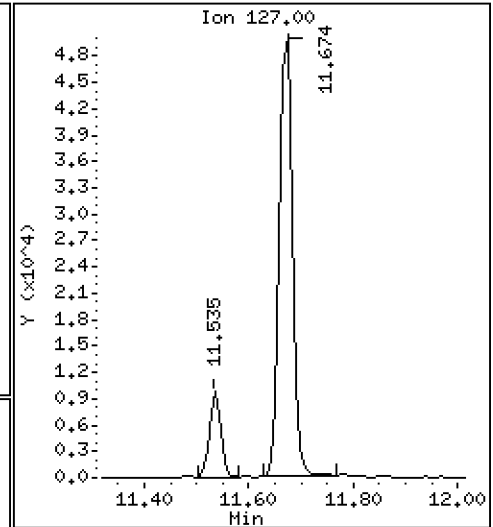
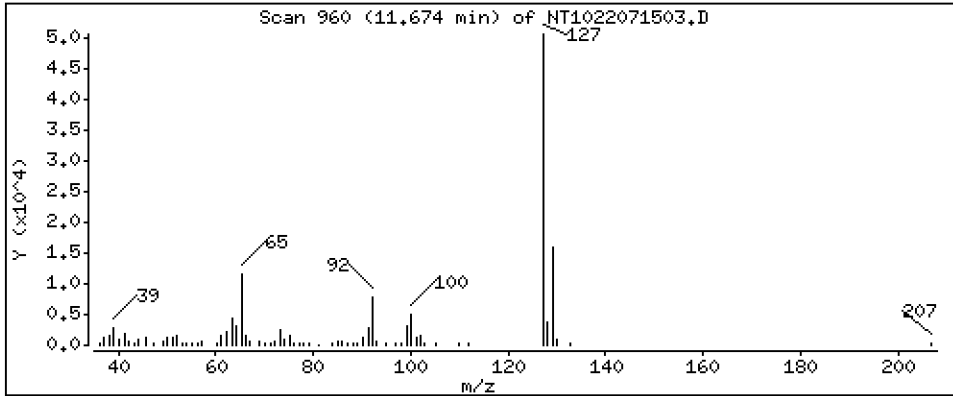
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,9426 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

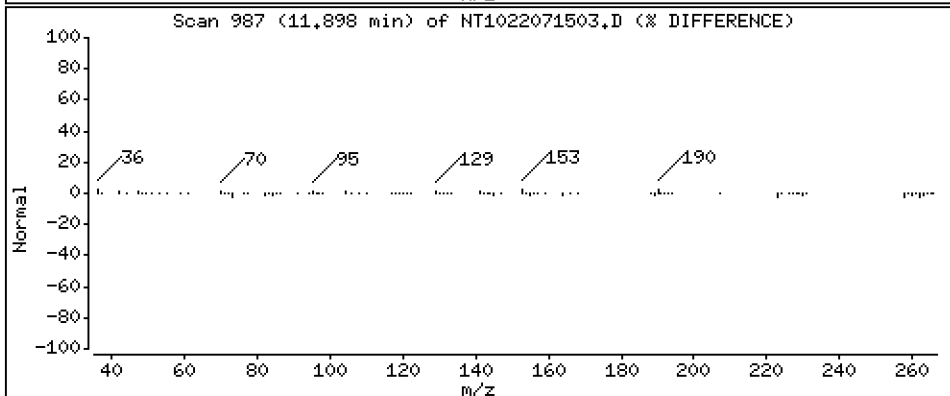
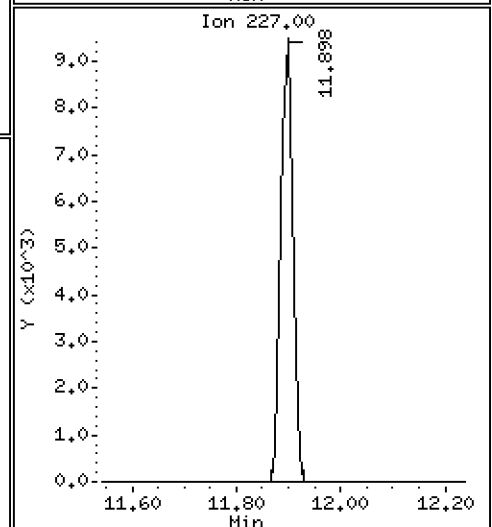
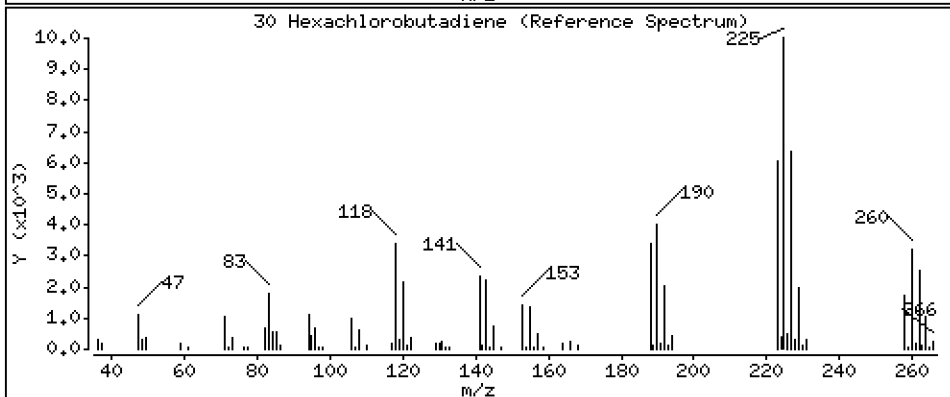
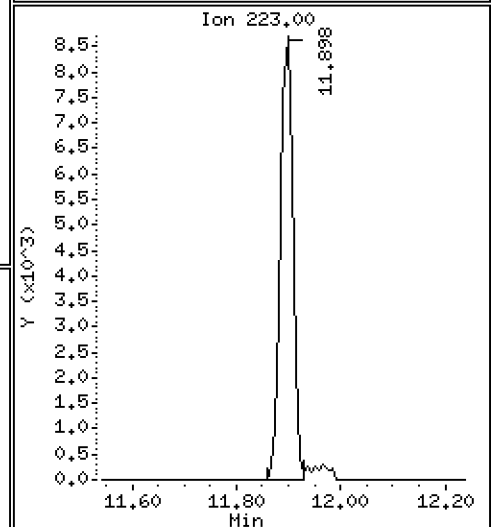
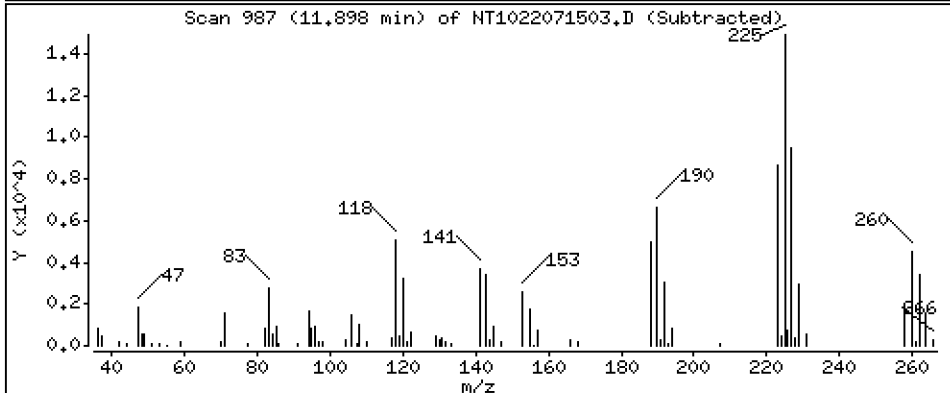
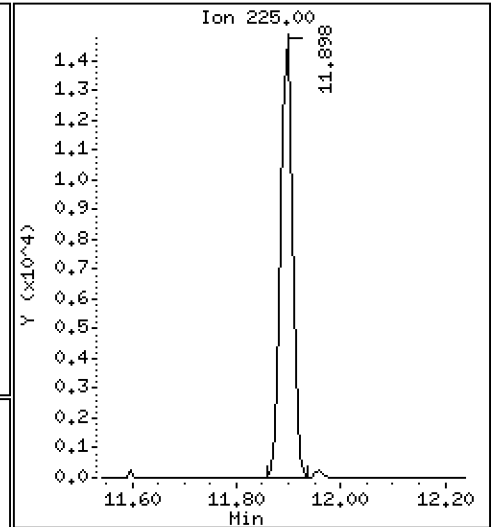
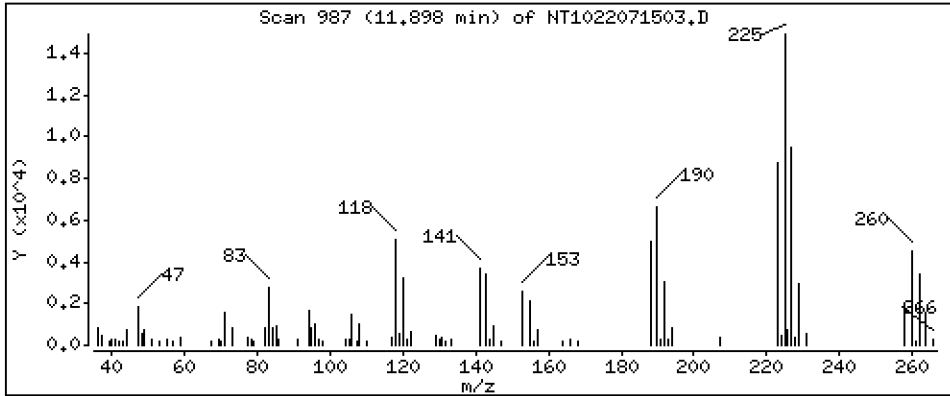
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,6662 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

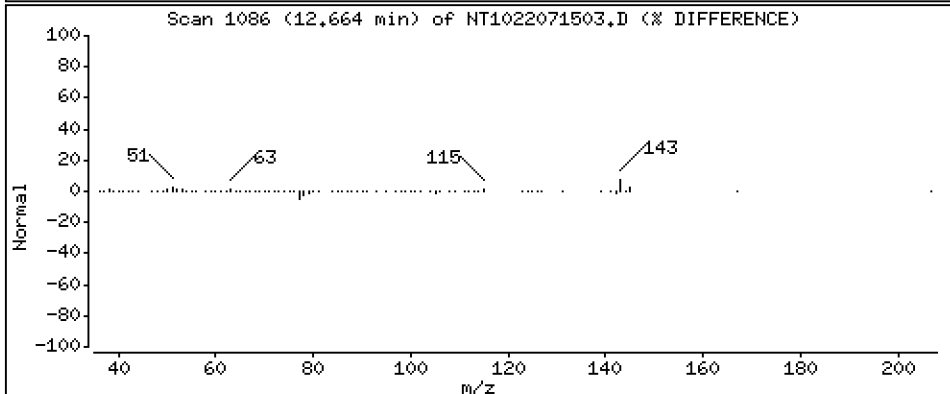
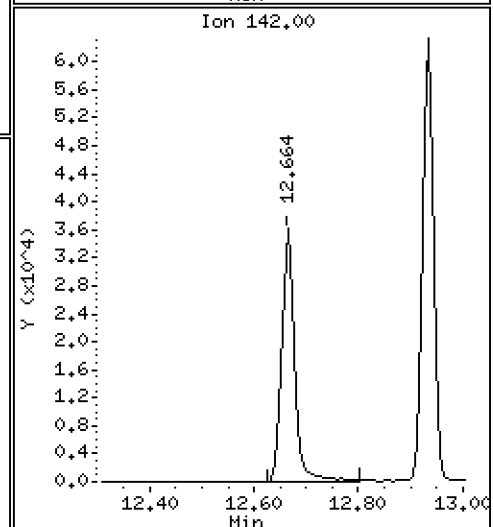
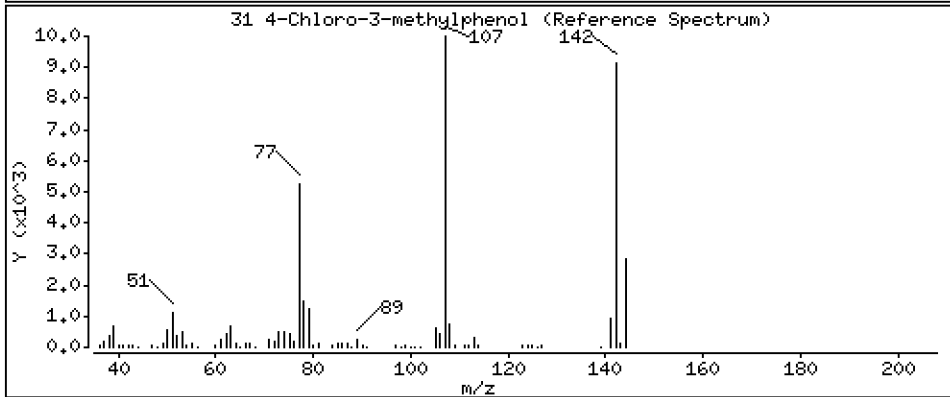
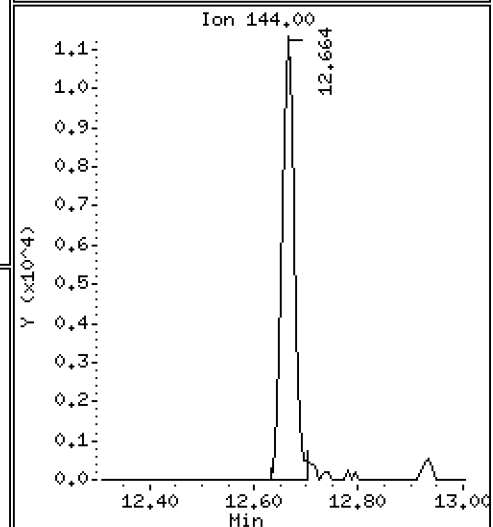
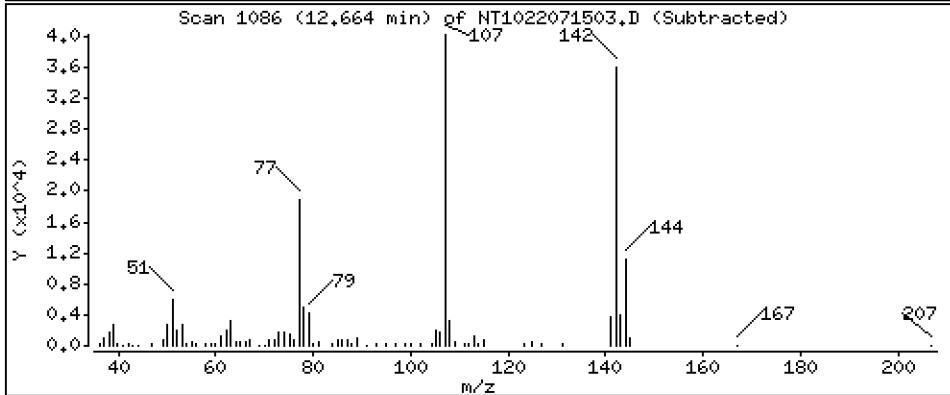
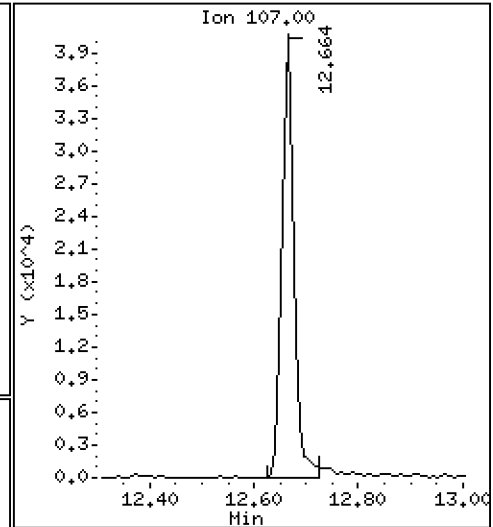
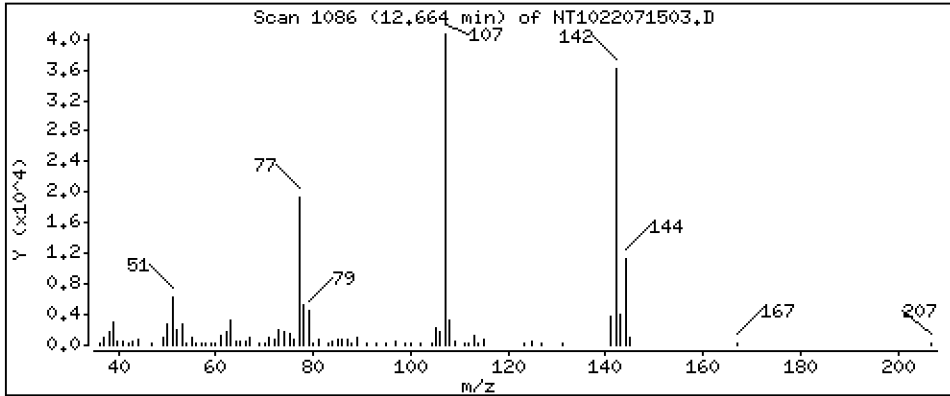
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,8386 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

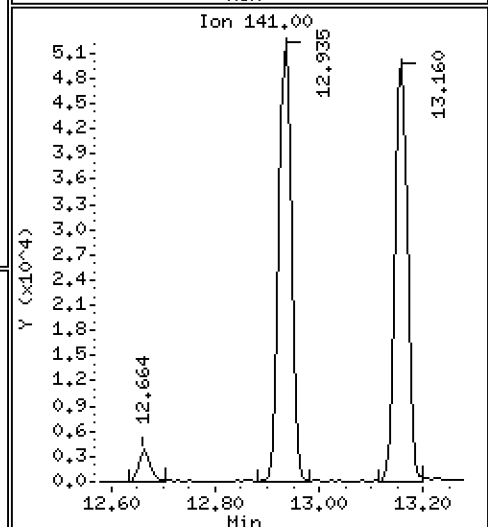
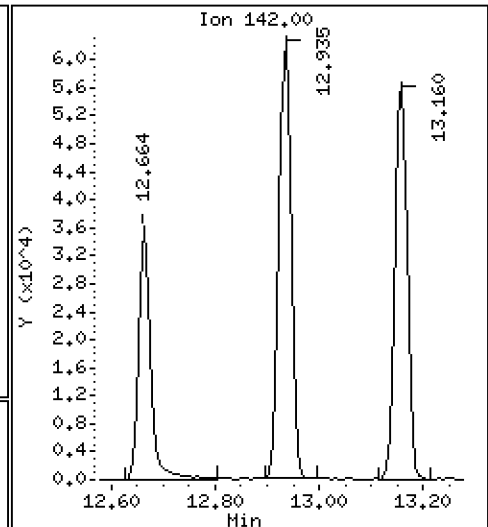
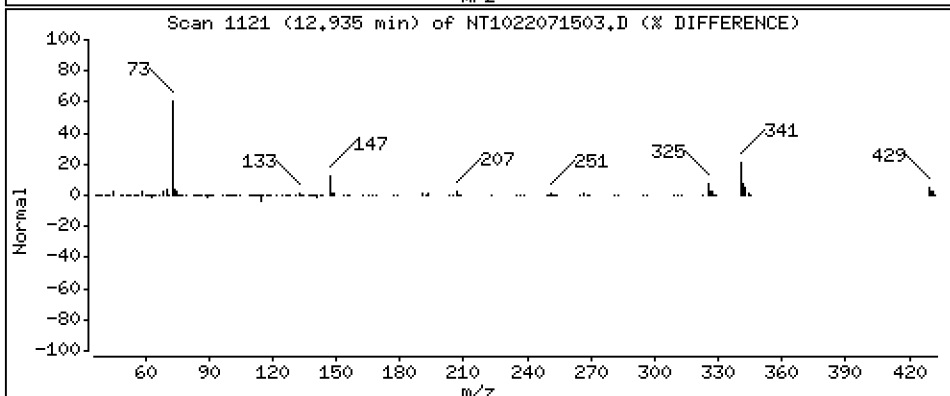
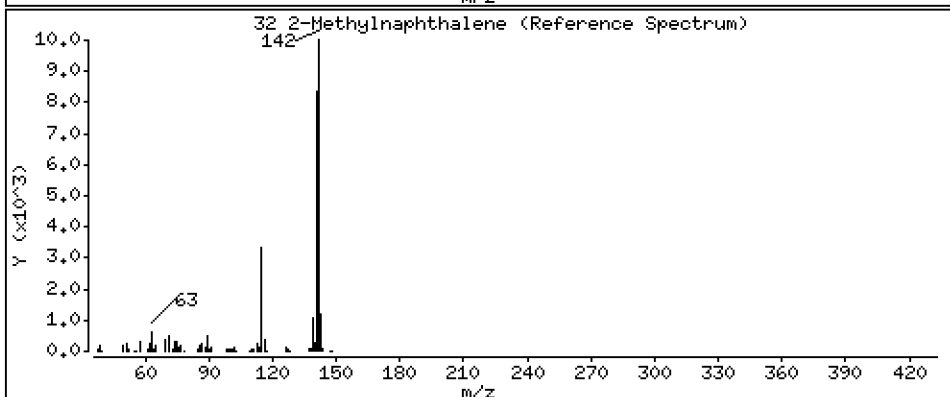
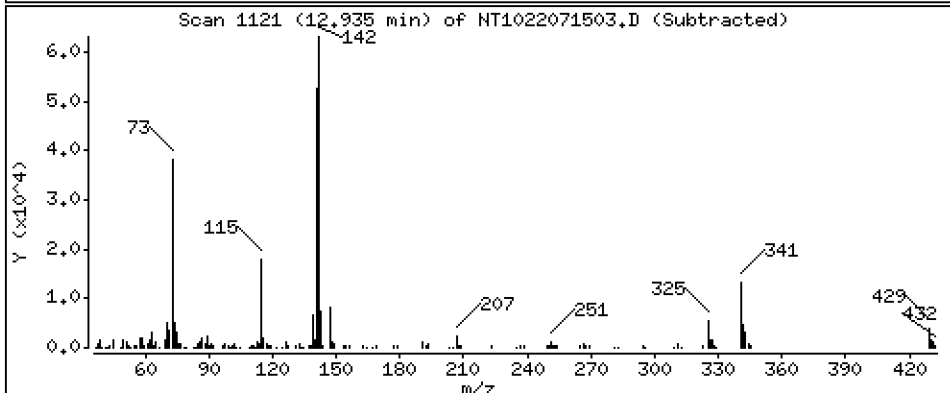
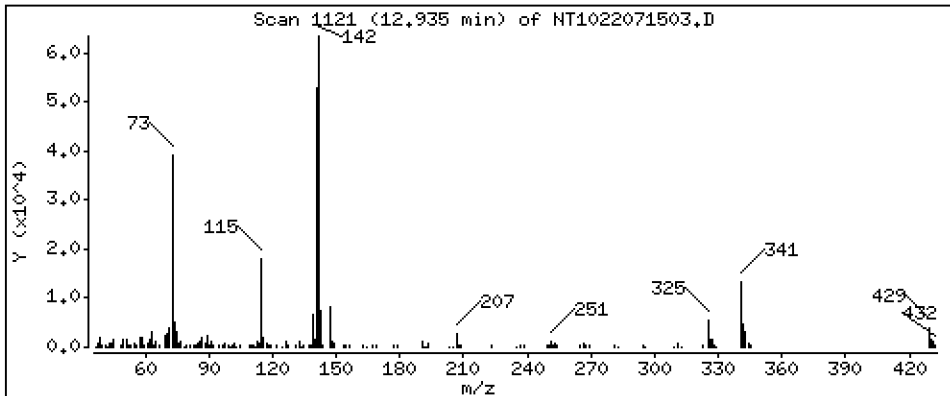
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,4930 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

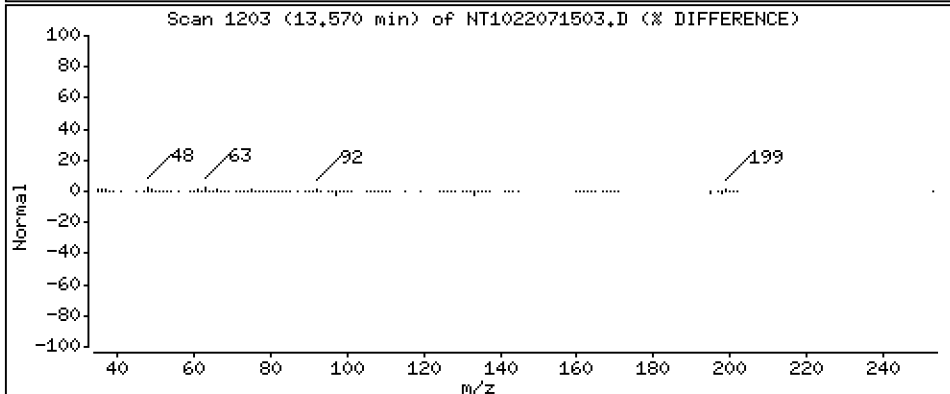
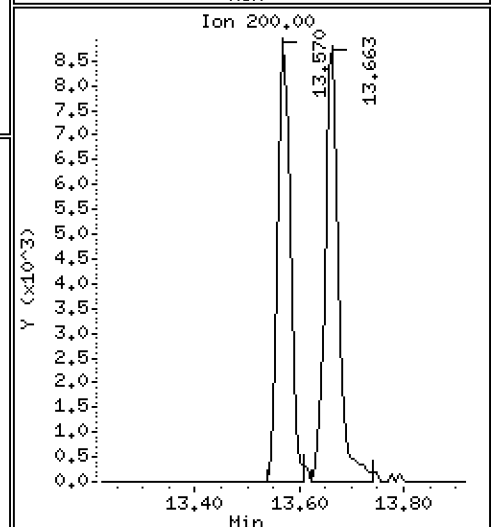
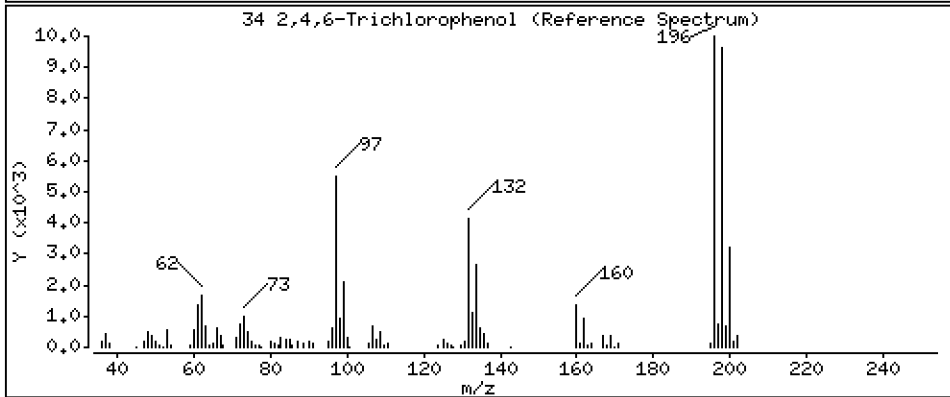
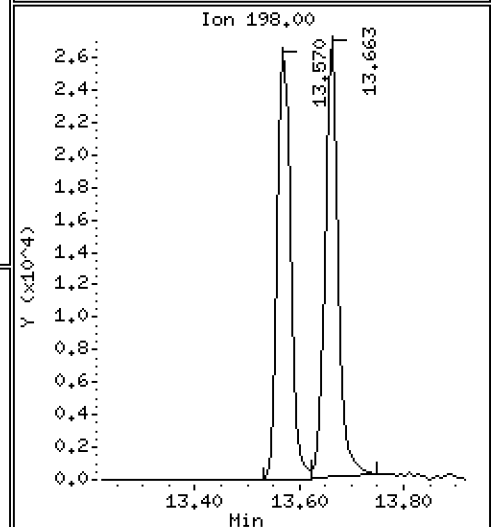
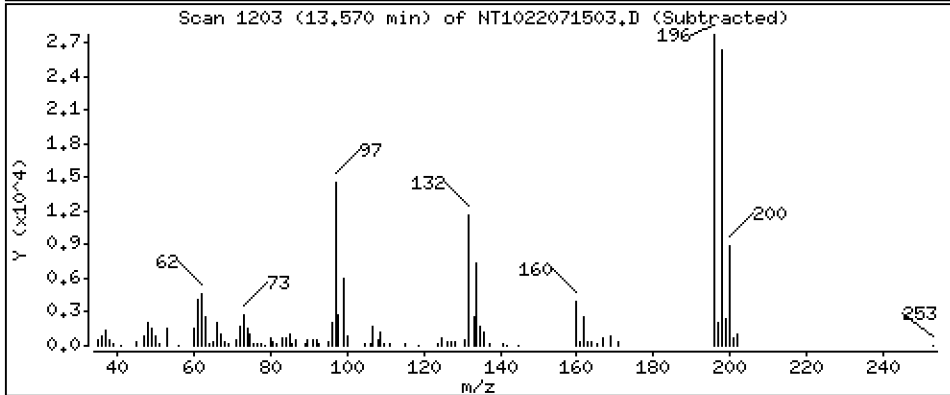
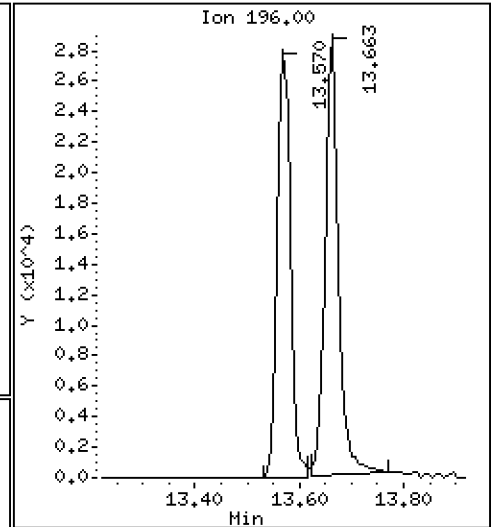
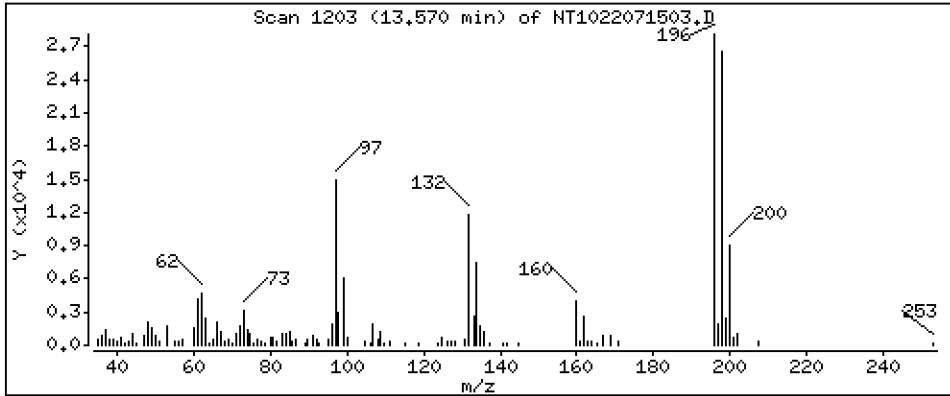
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 1,023 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

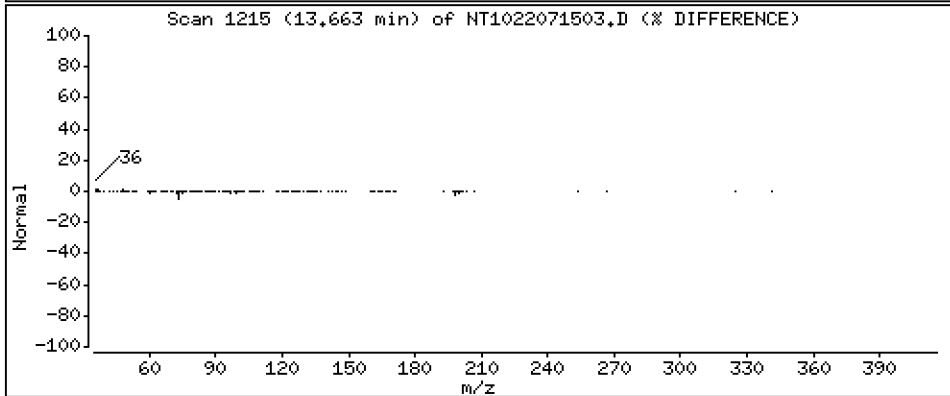
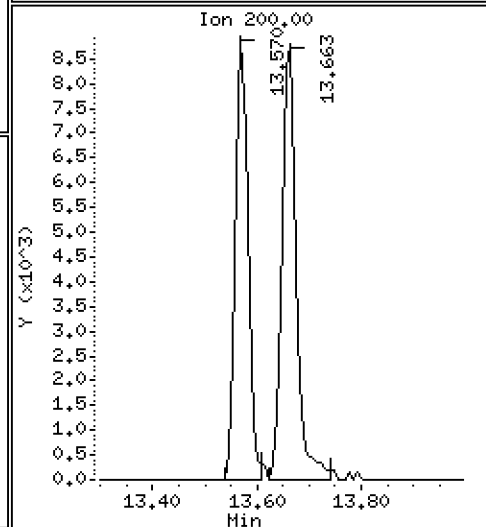
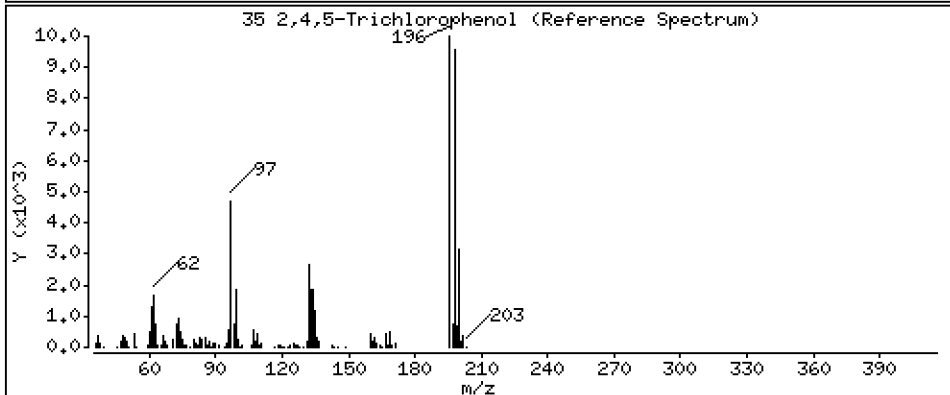
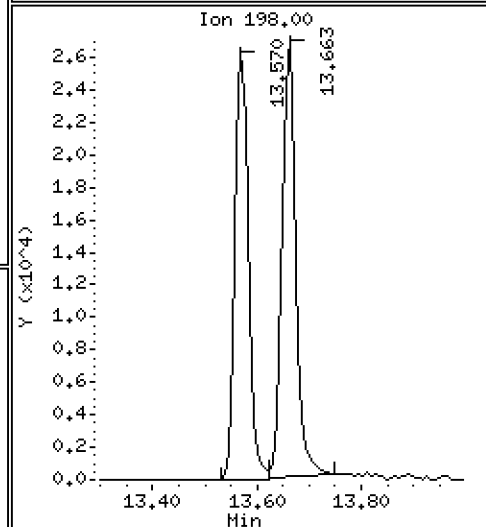
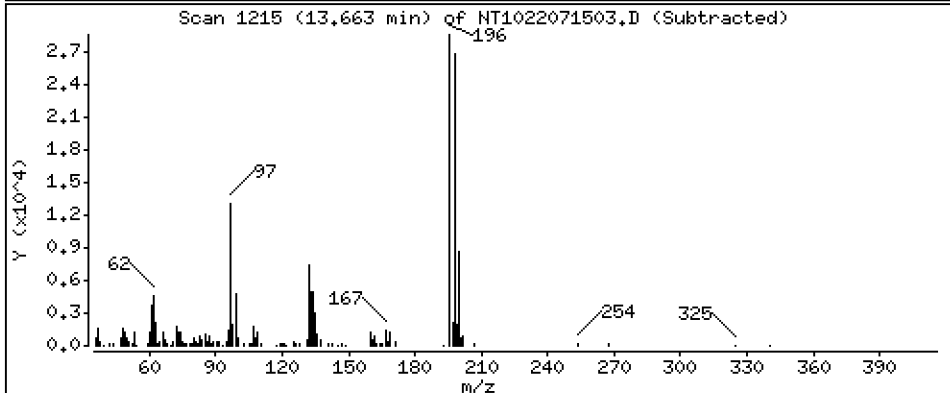
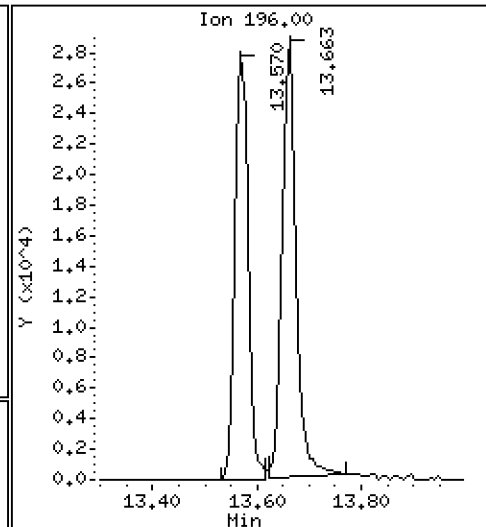
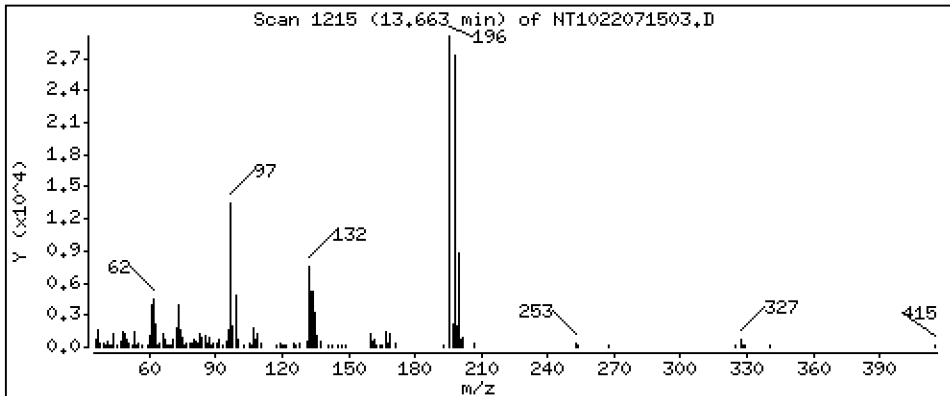
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,9435 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

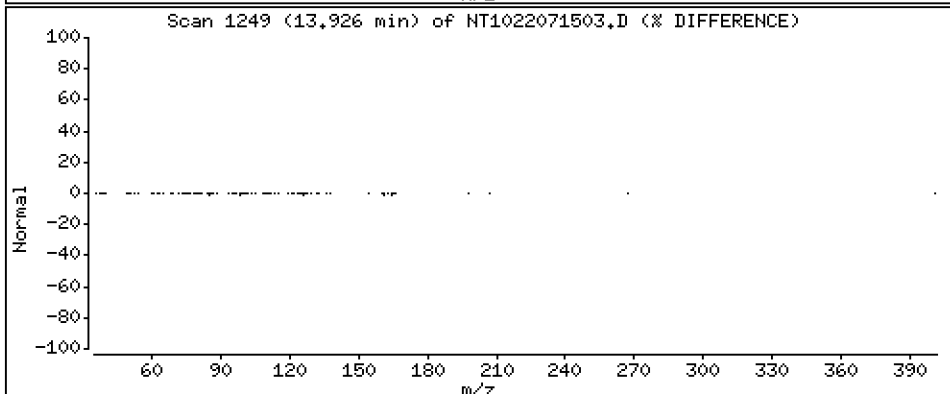
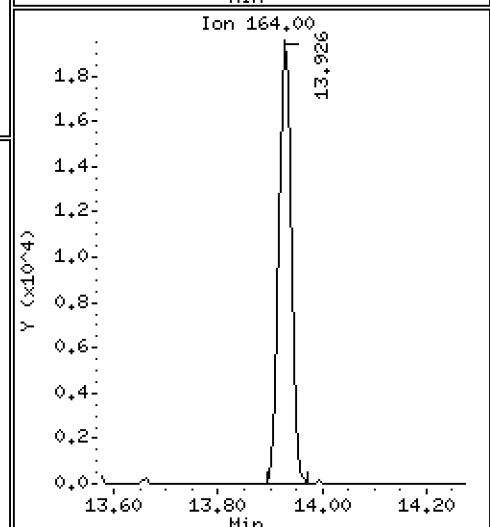
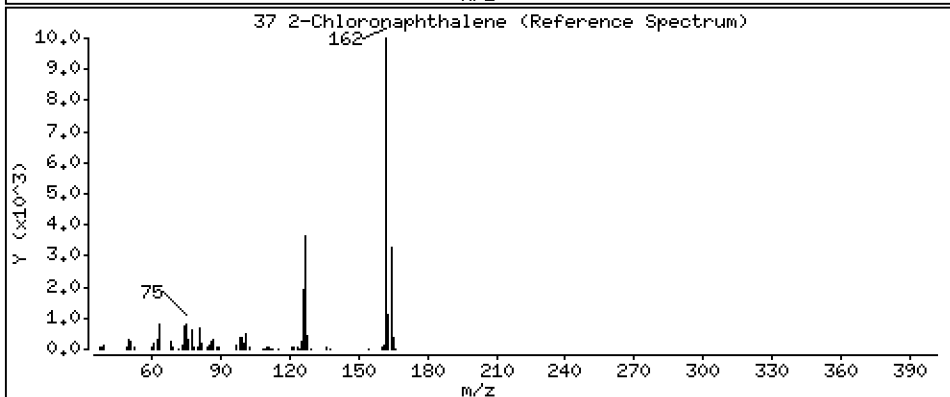
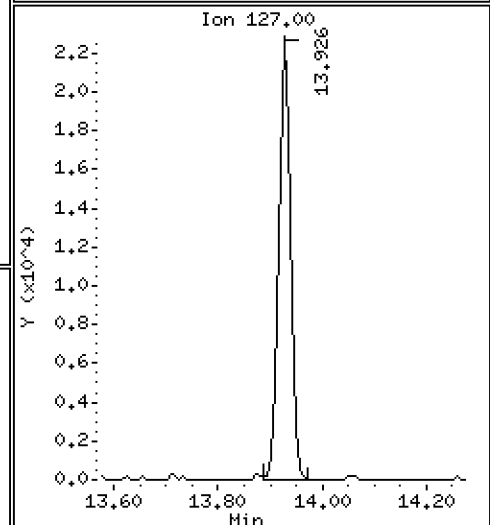
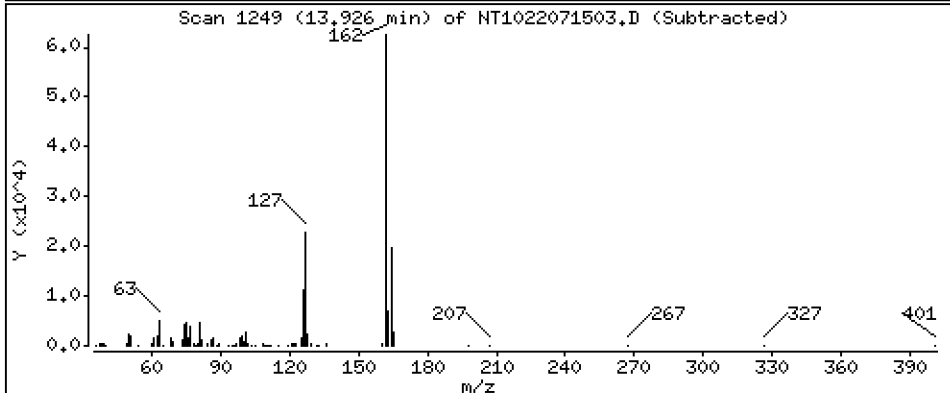
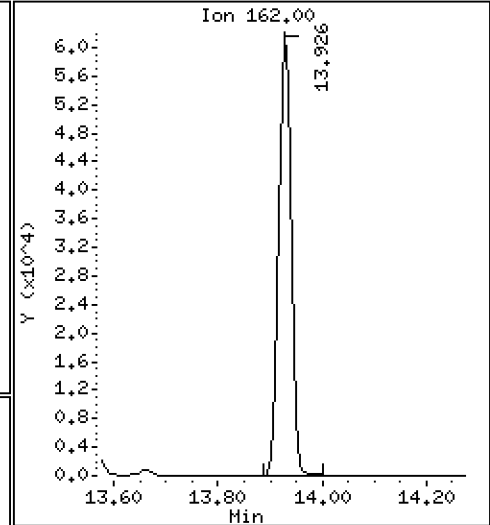
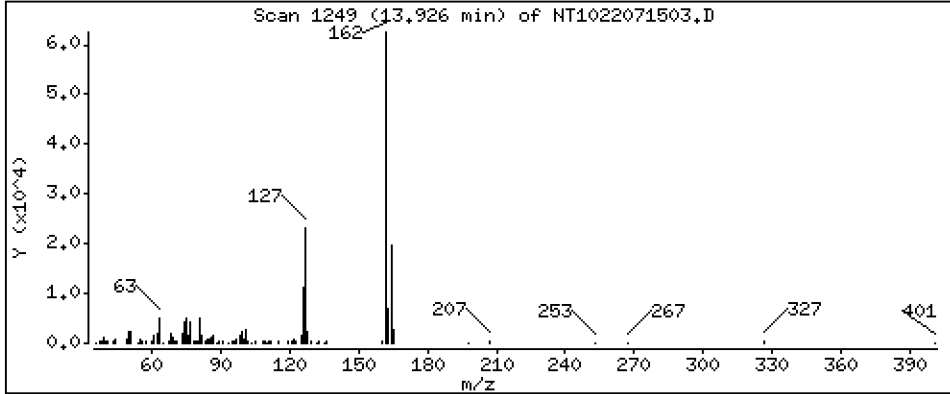
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,6070 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

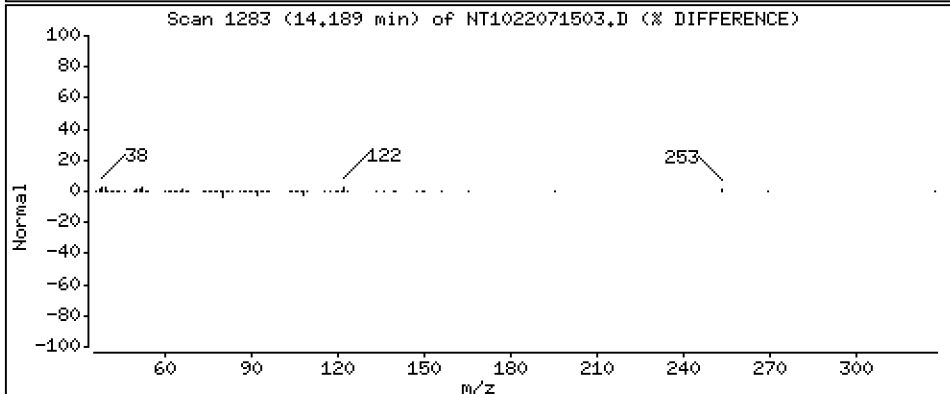
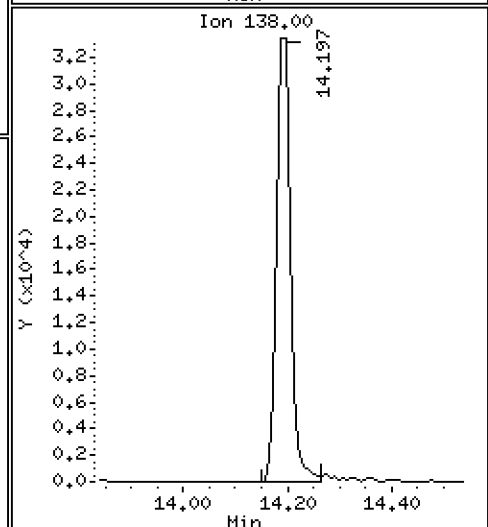
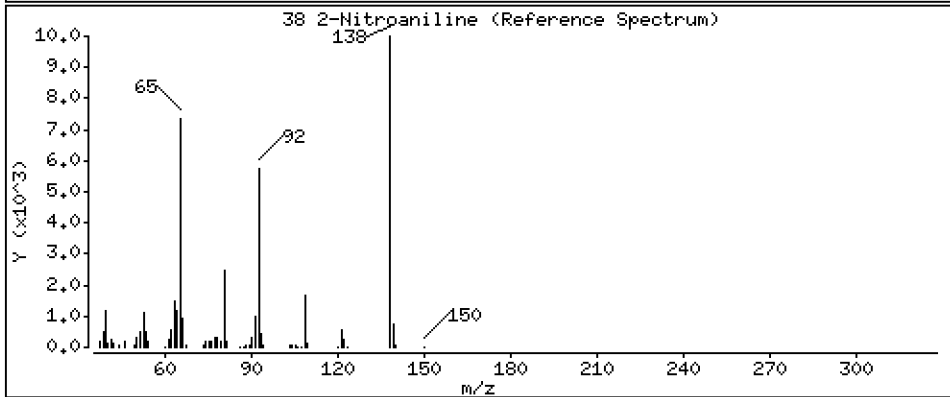
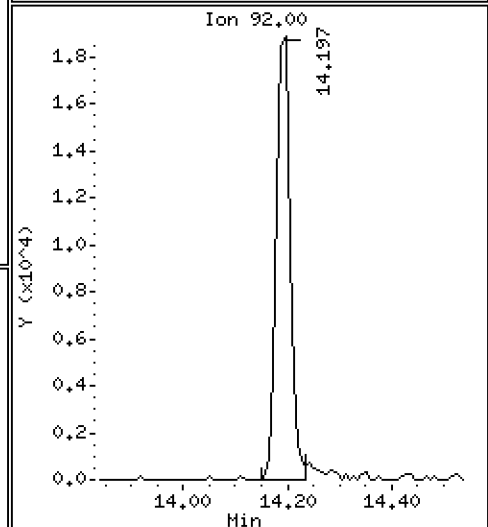
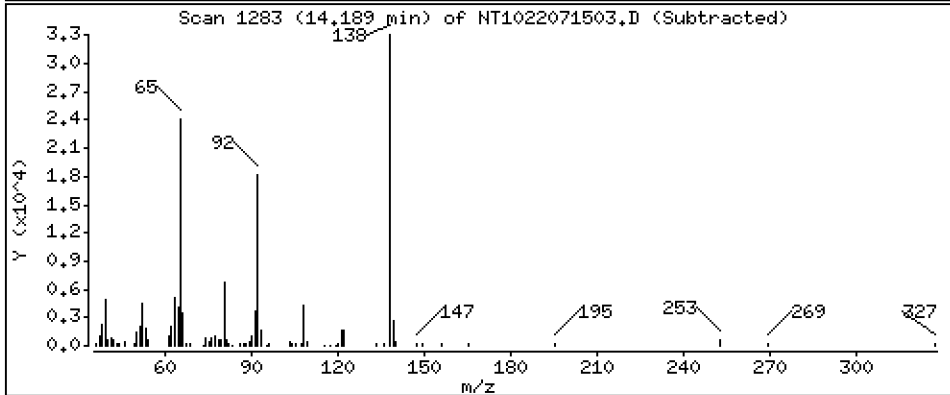
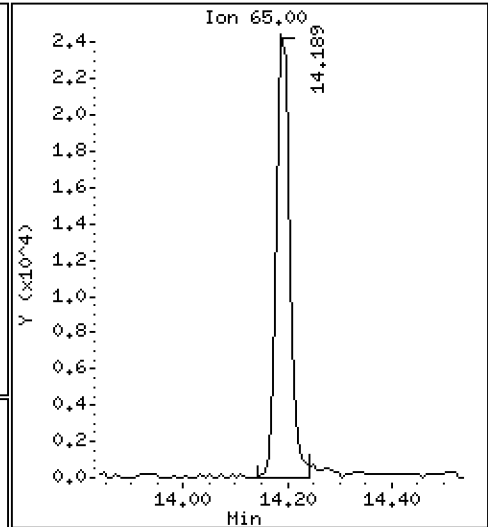
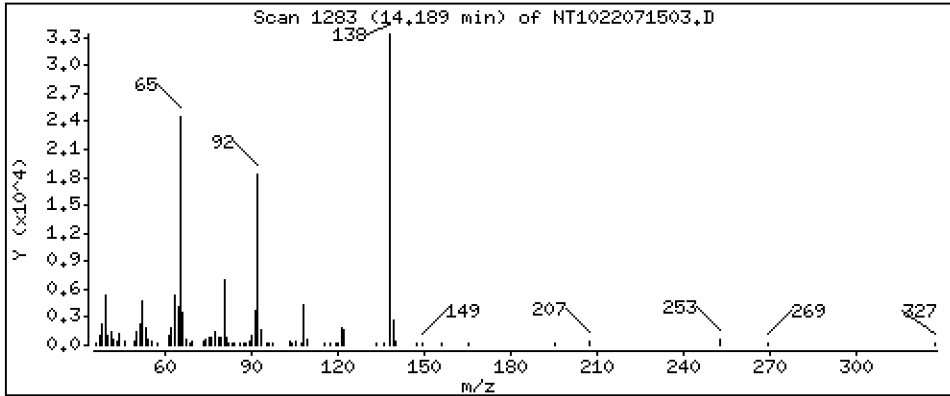
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,9772 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

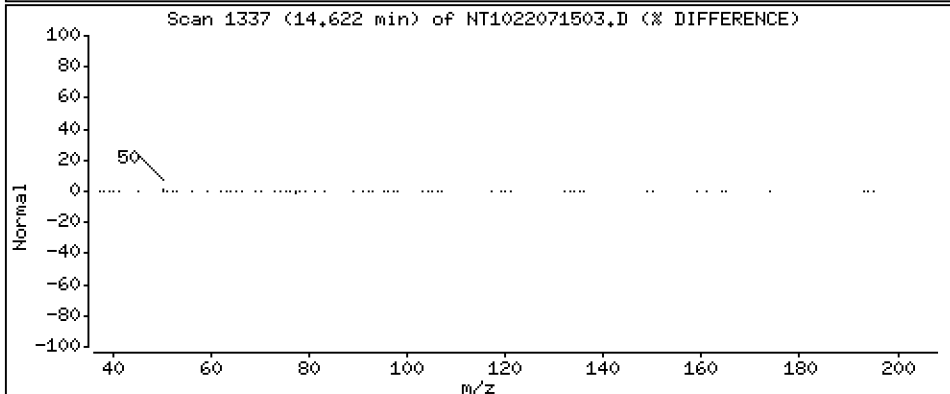
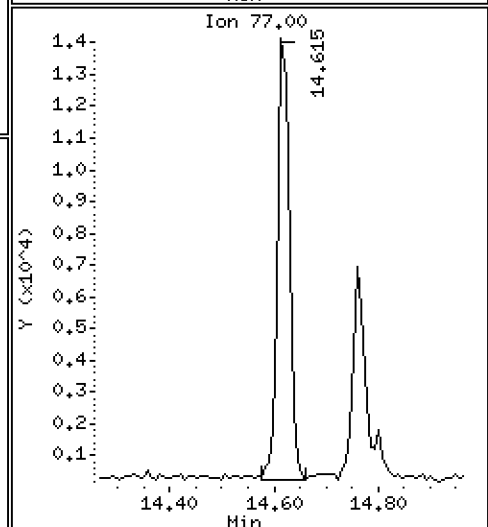
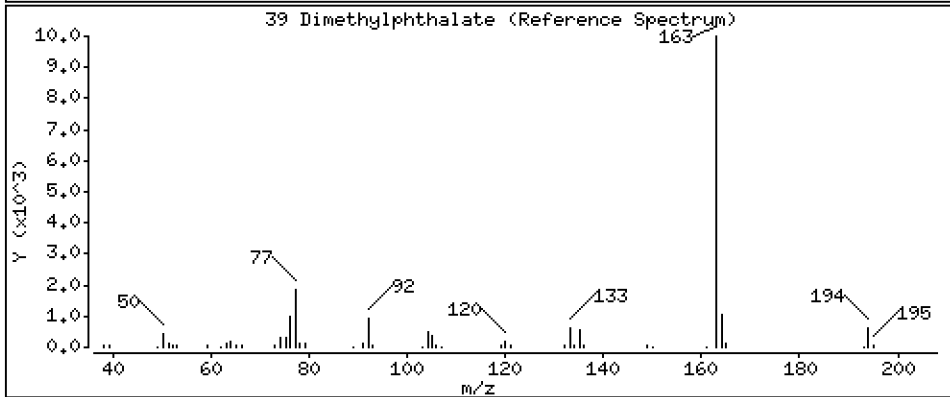
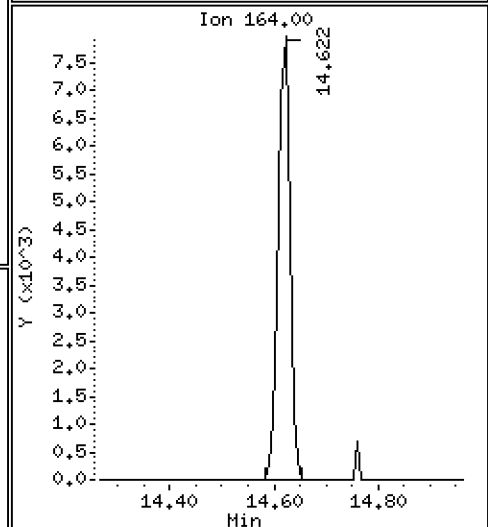
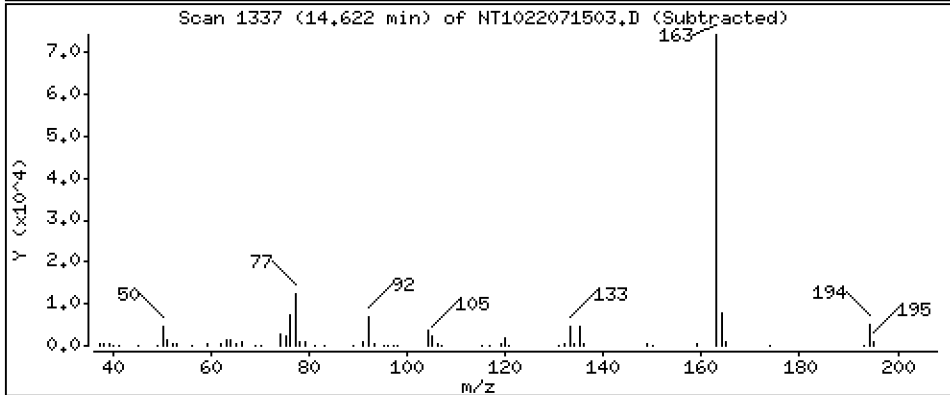
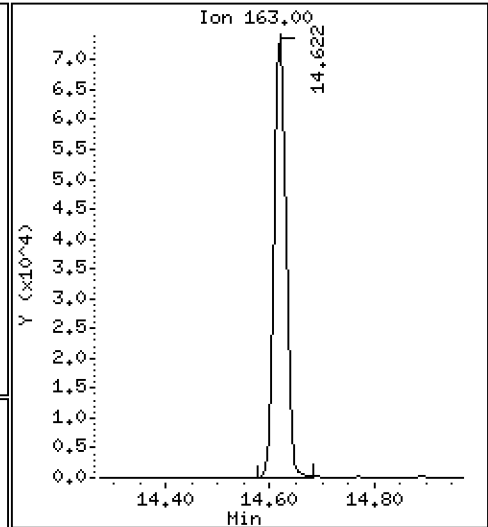
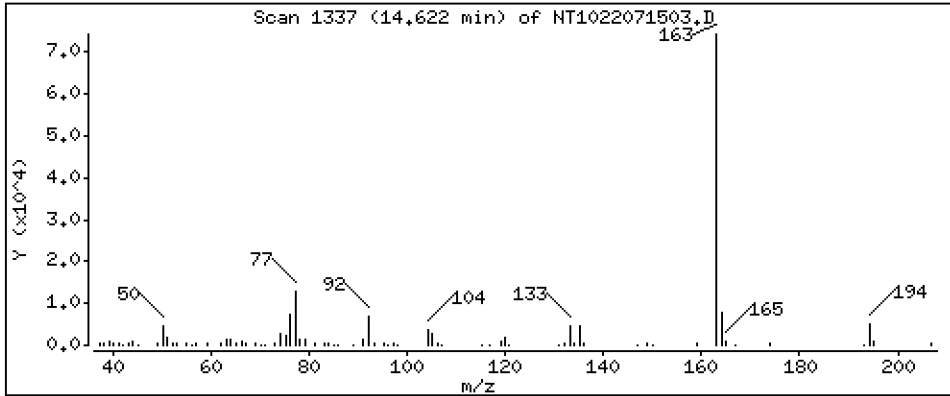
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,7900 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

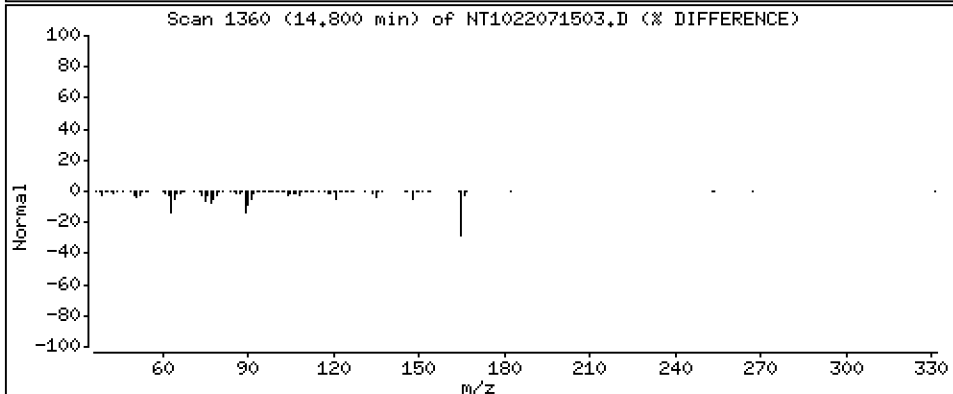
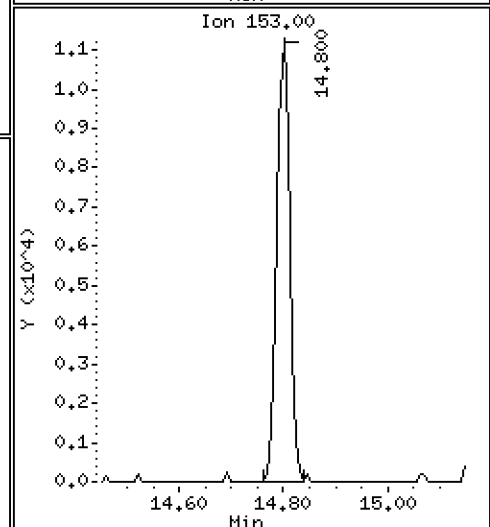
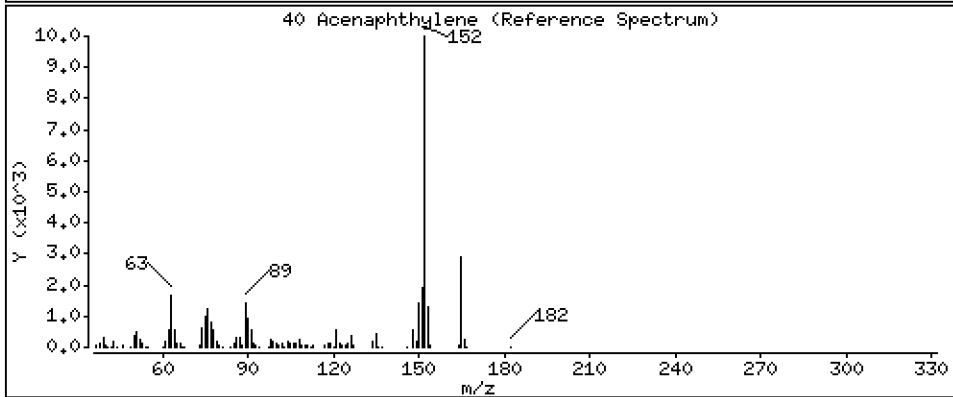
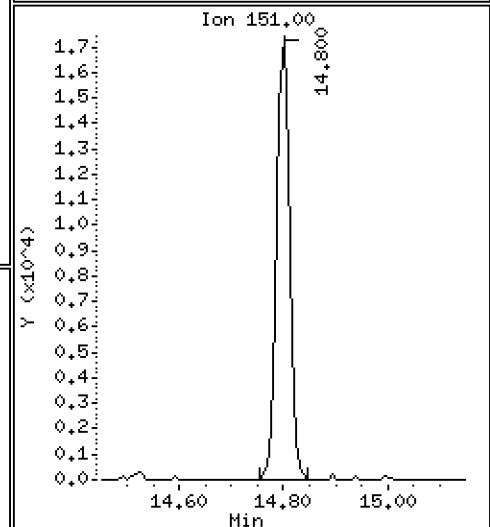
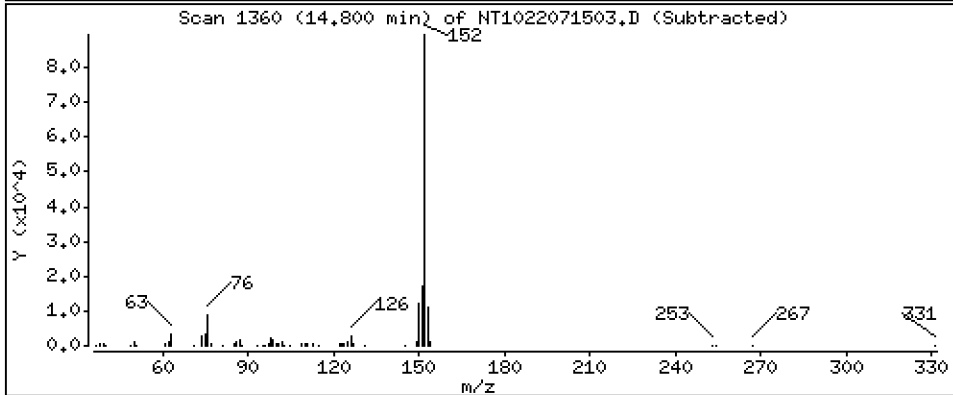
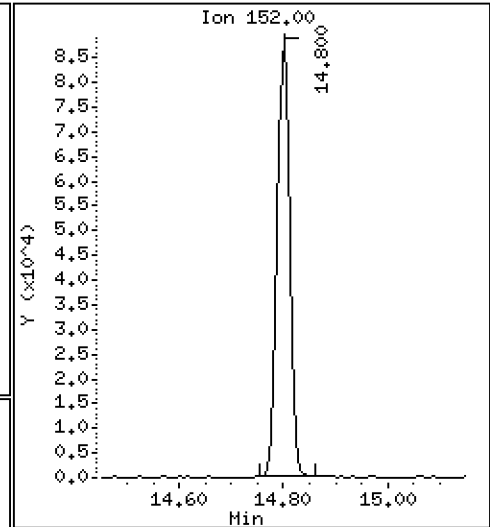
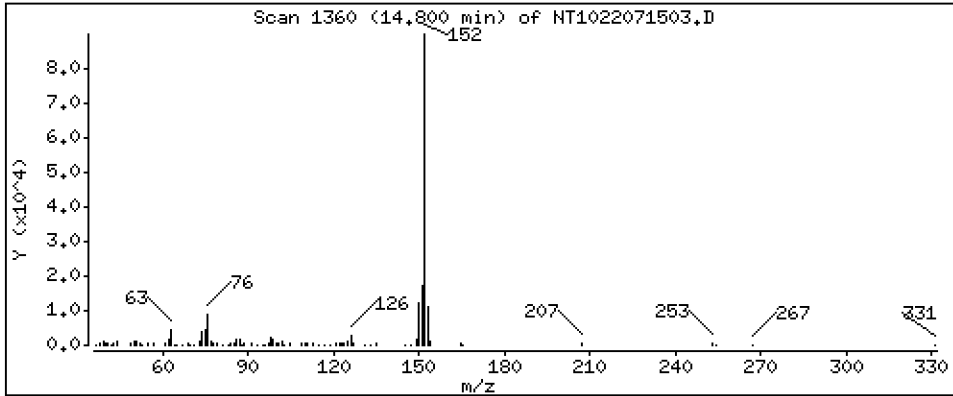
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5963 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

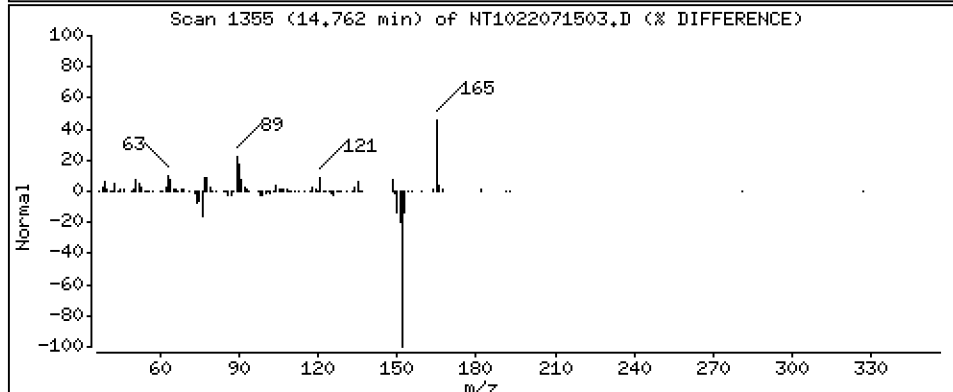
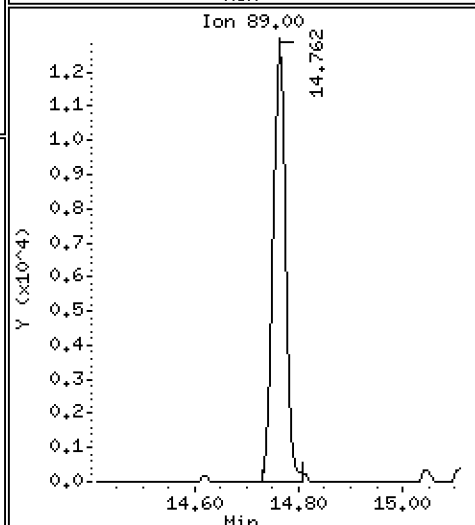
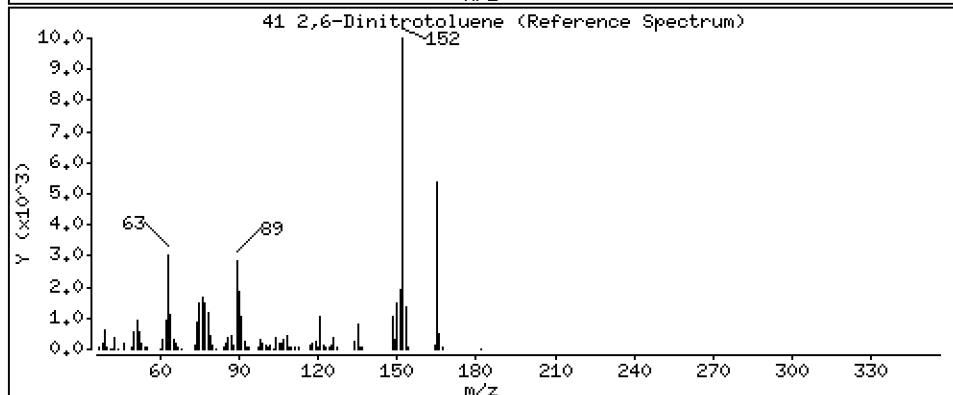
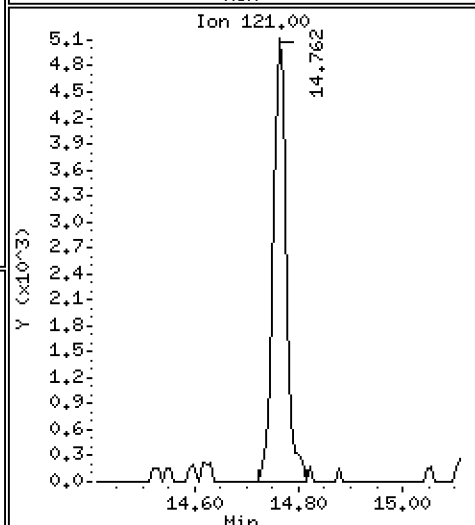
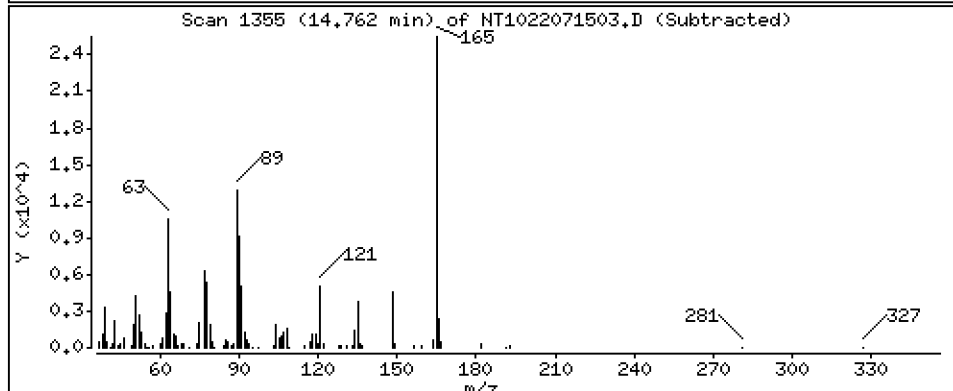
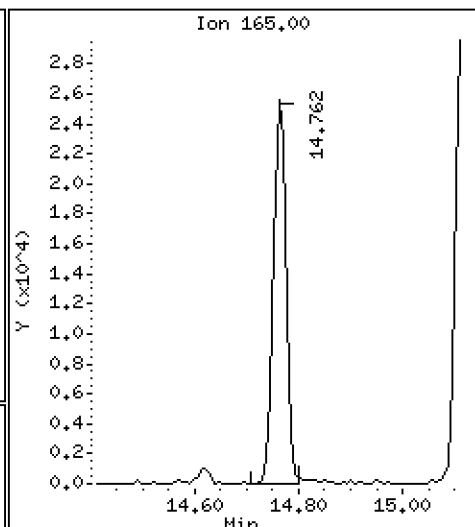
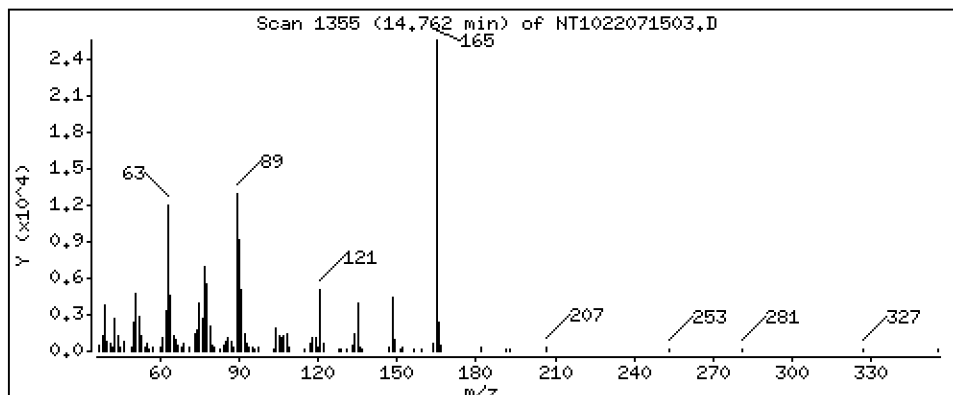
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 1,252 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

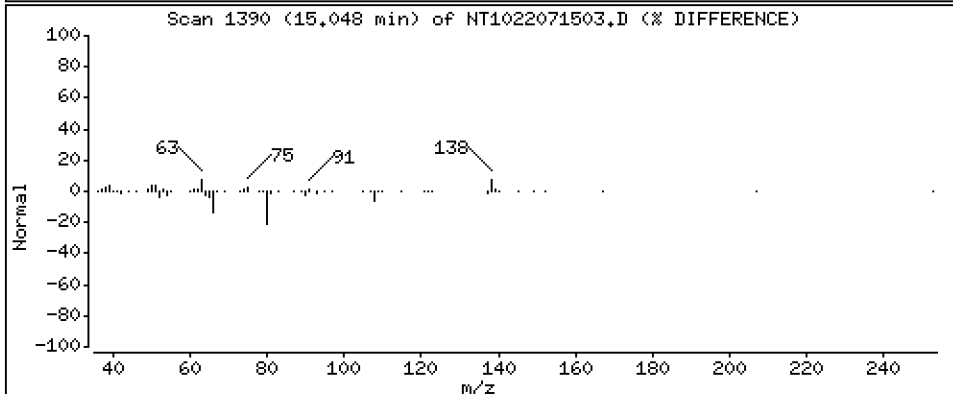
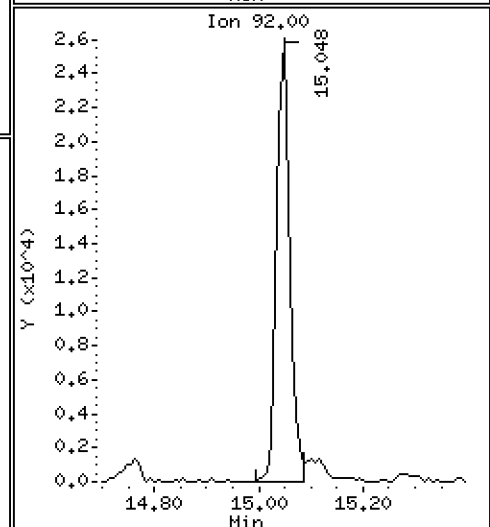
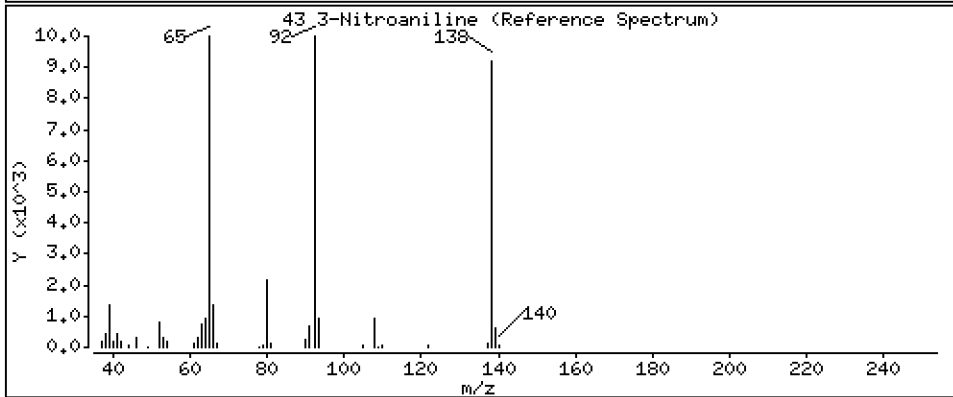
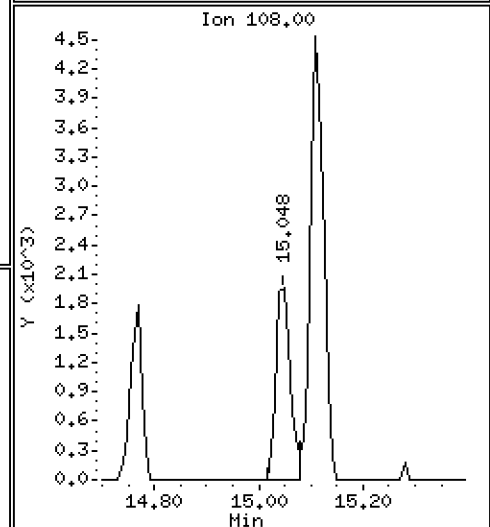
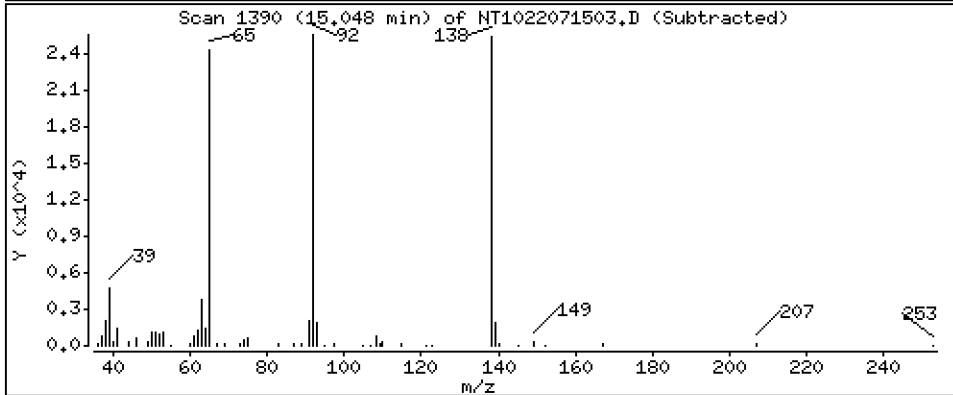
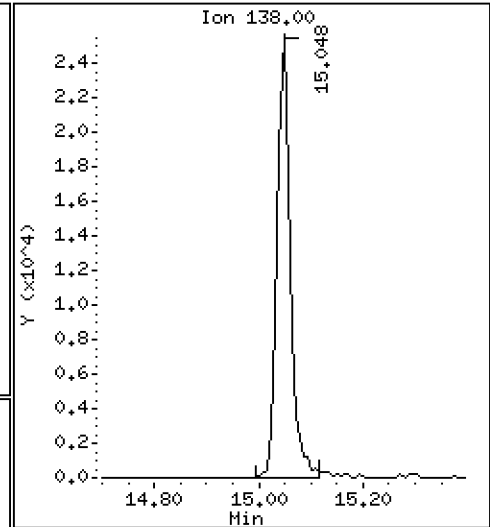
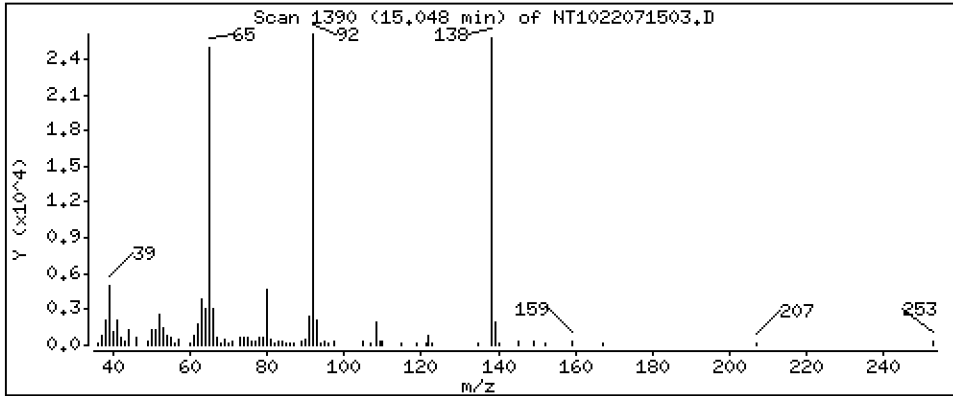
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 1,263 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

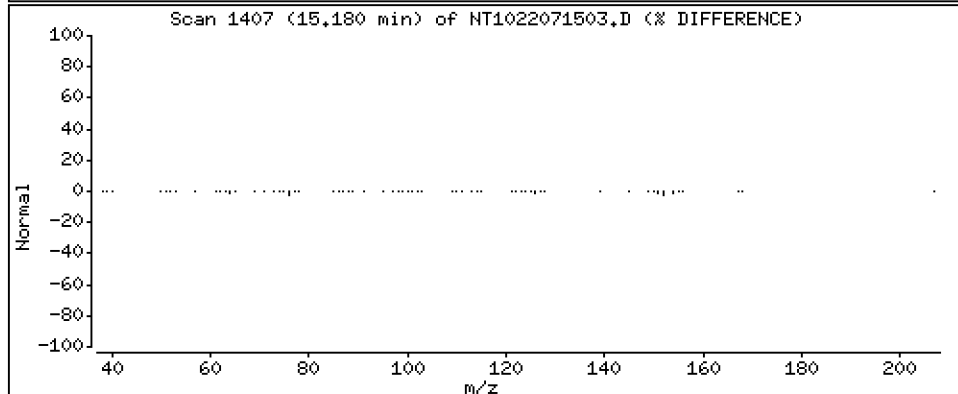
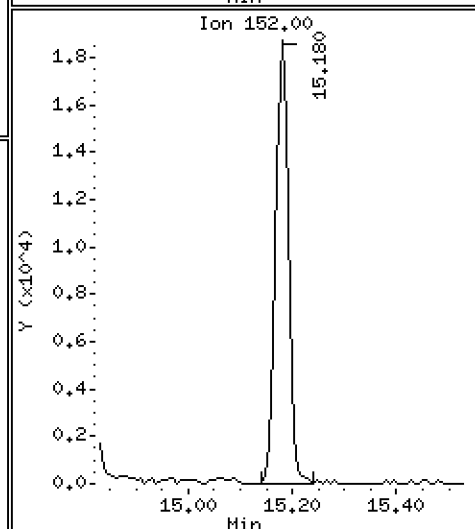
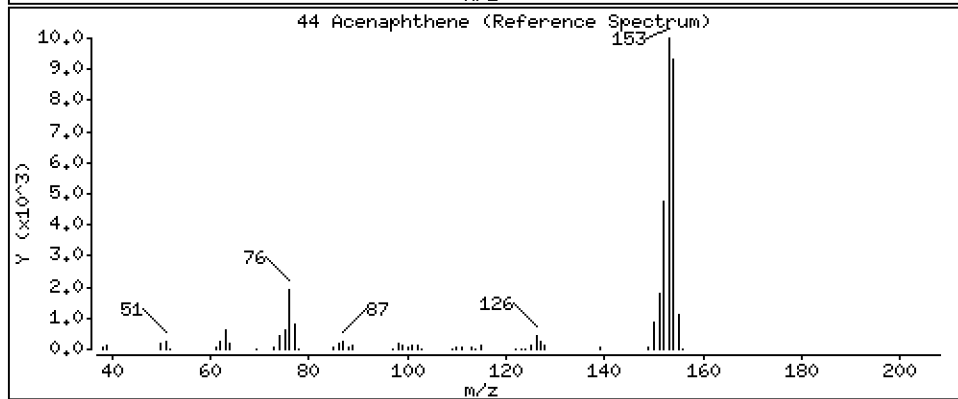
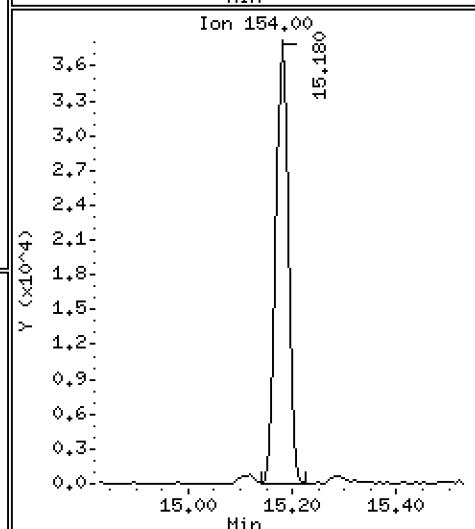
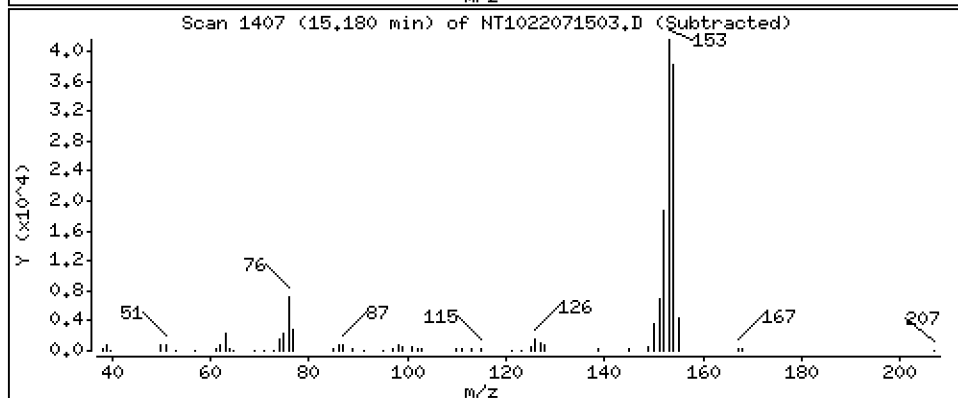
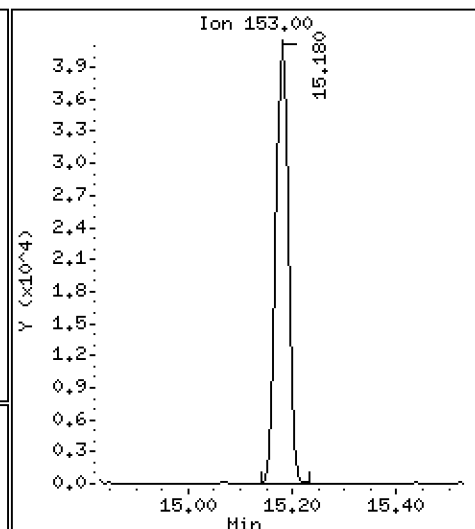
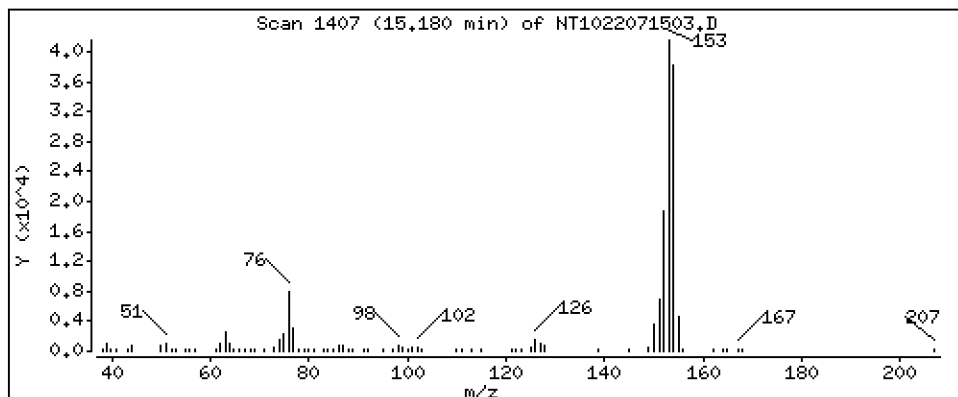
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5630 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

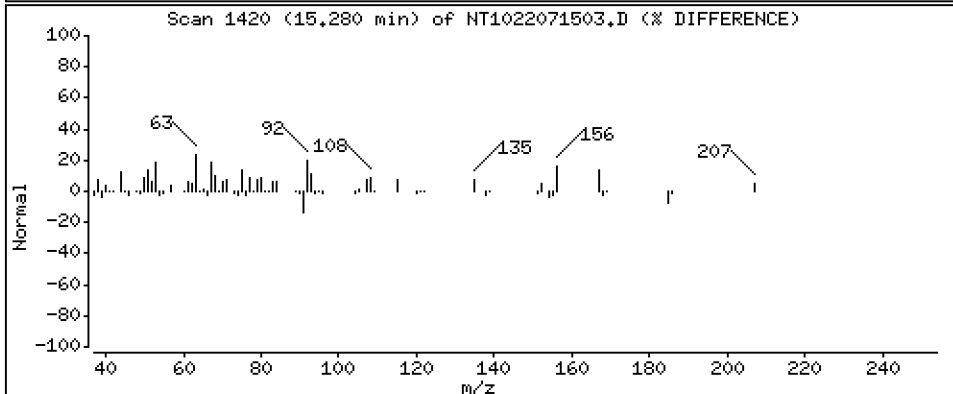
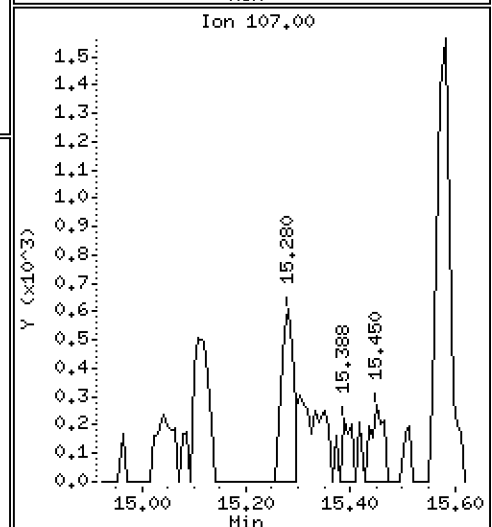
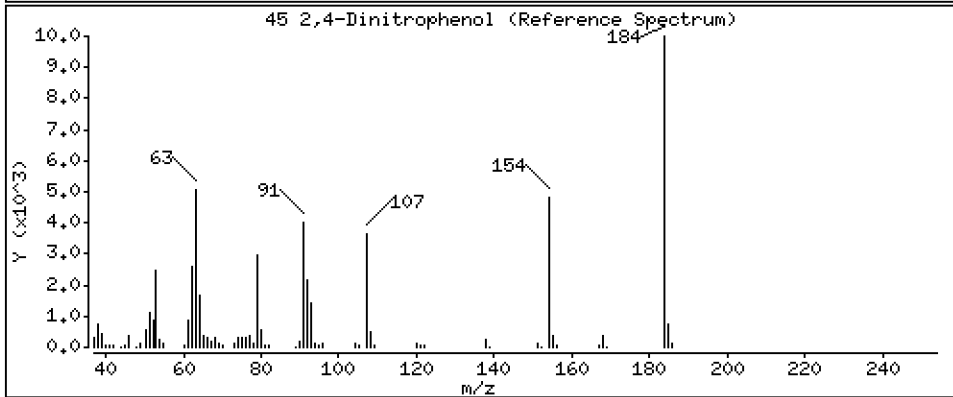
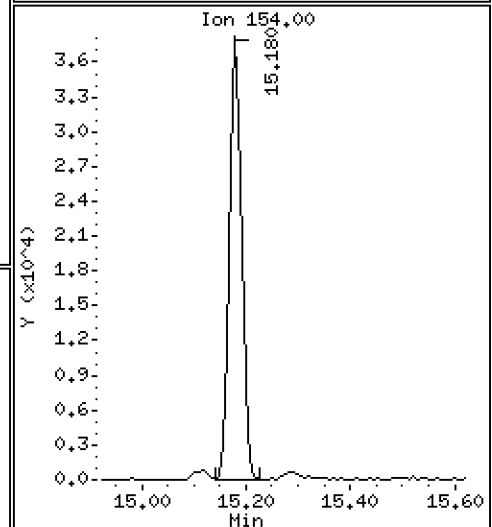
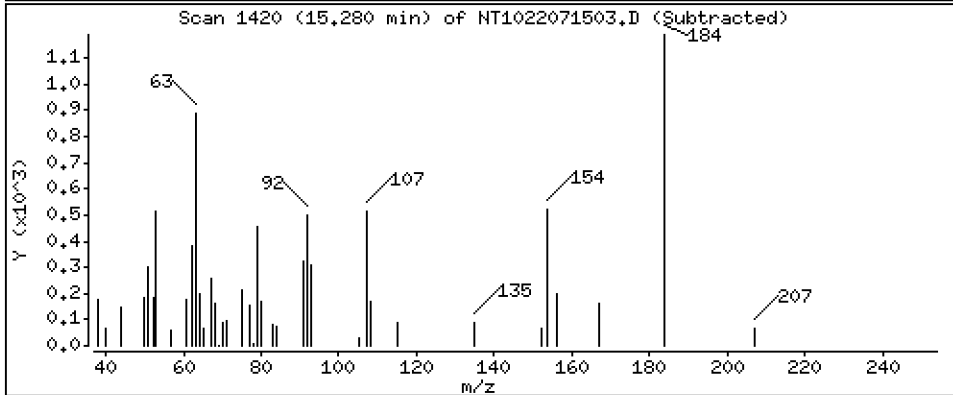
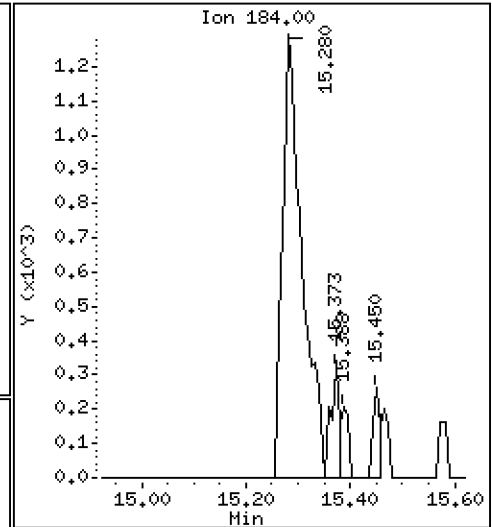
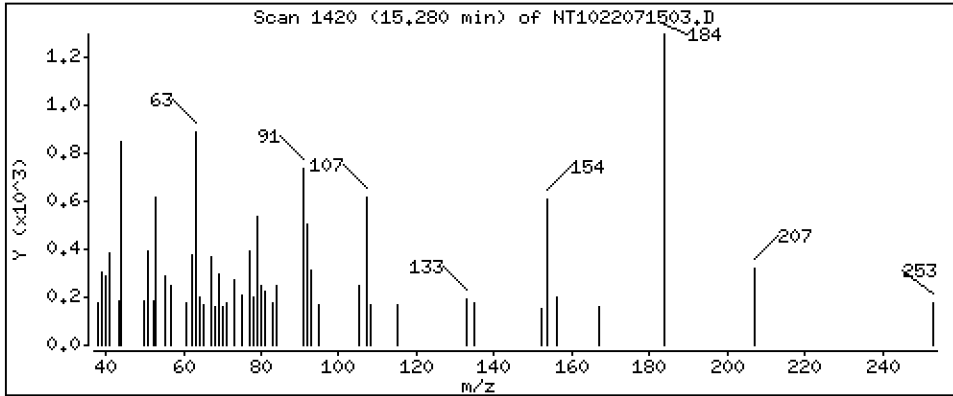
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,2313 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

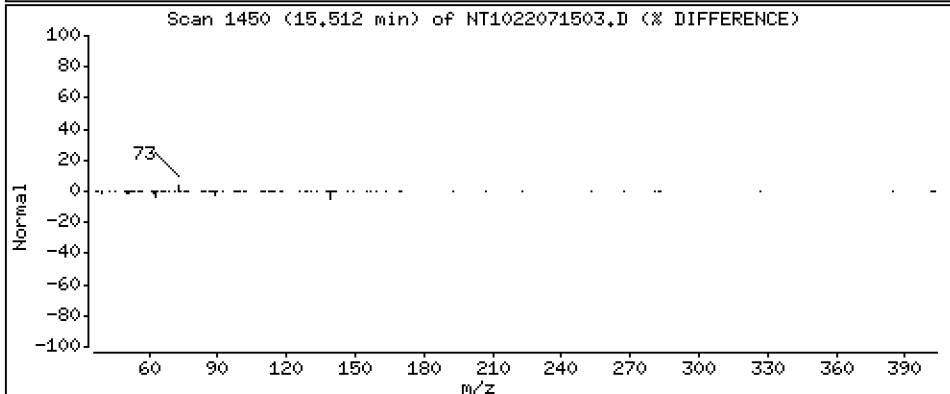
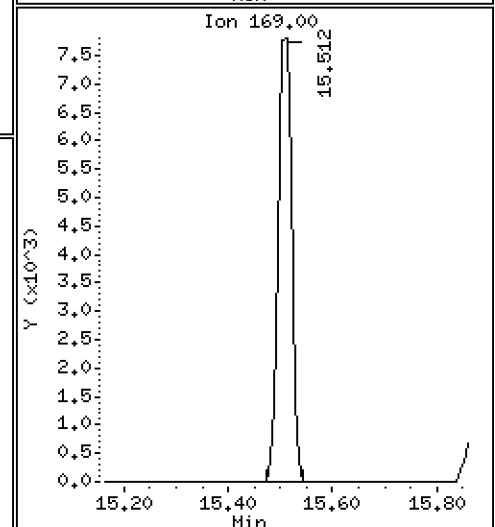
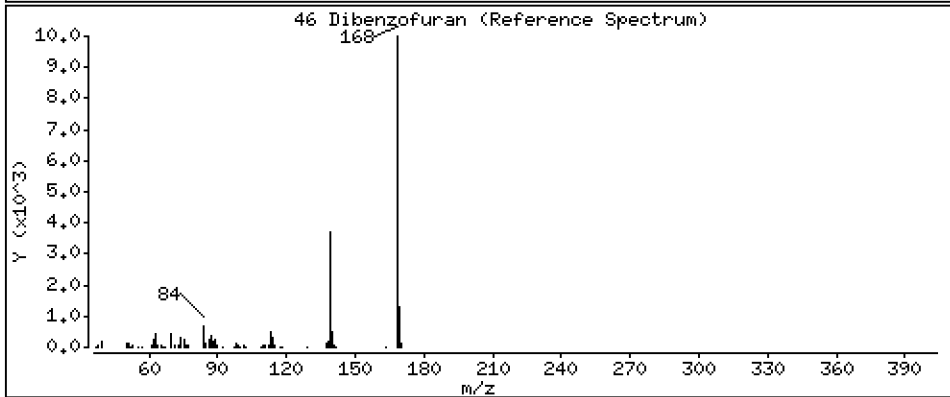
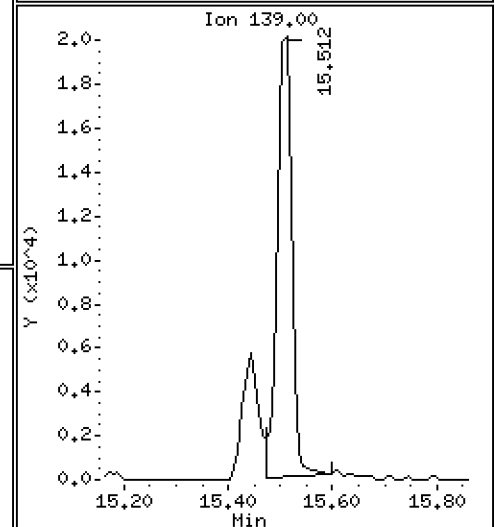
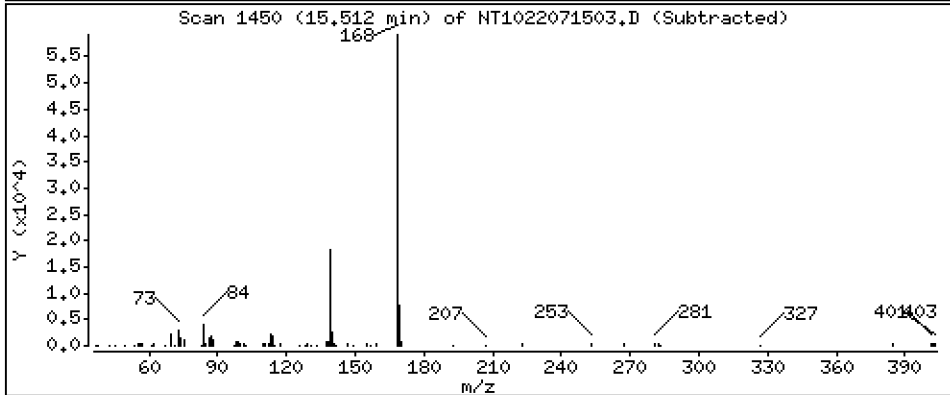
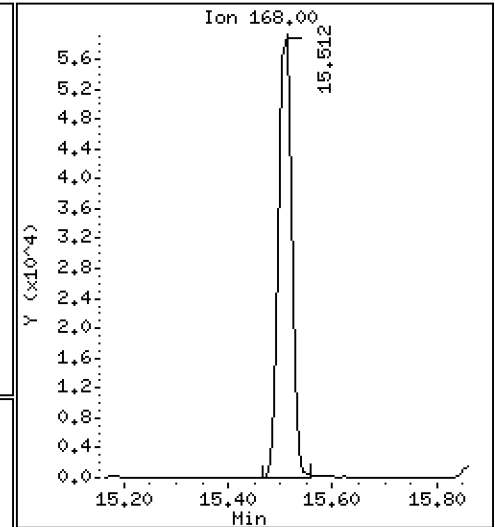
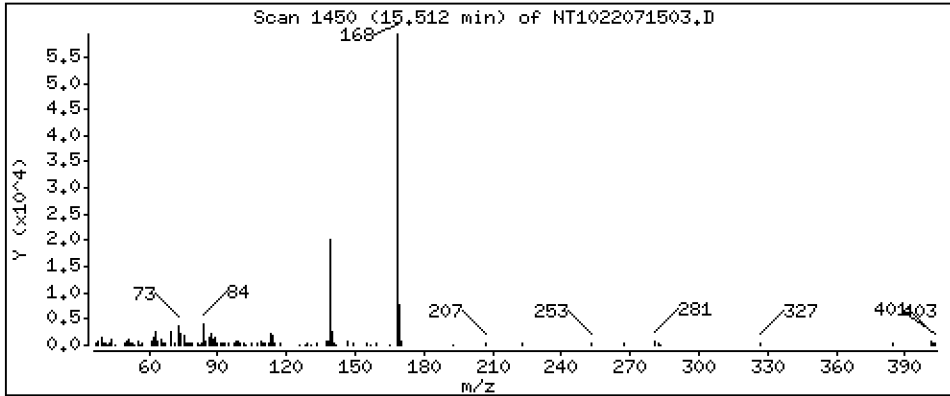
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5322 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

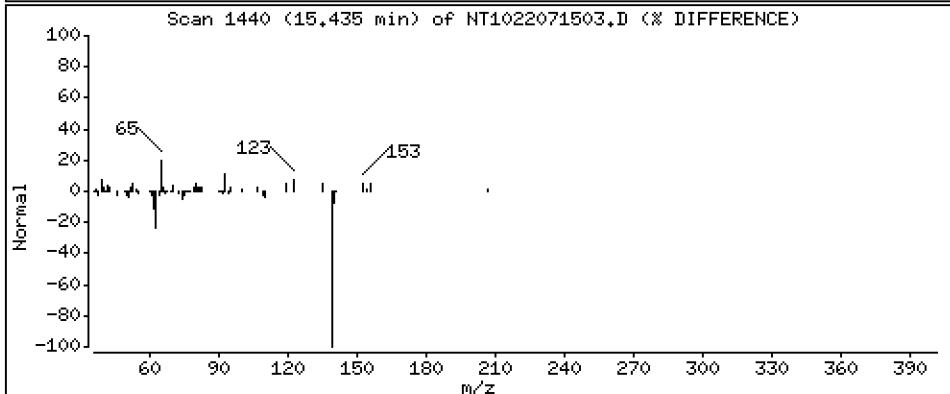
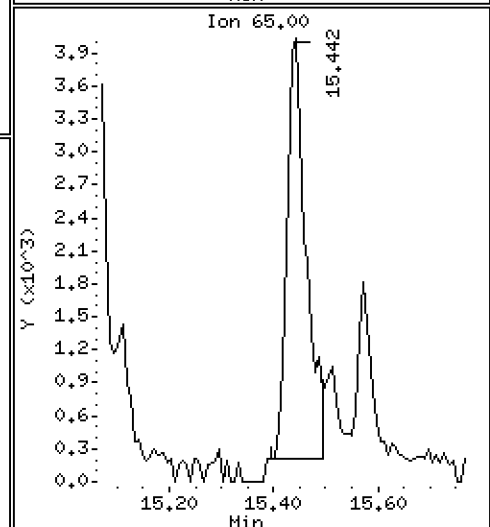
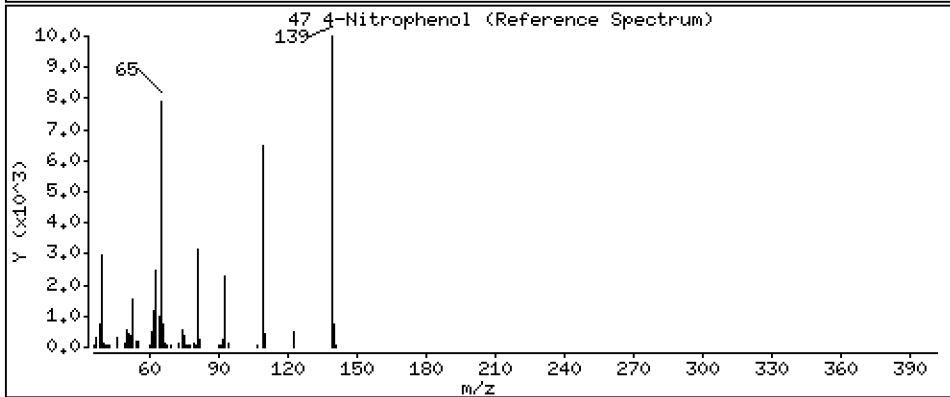
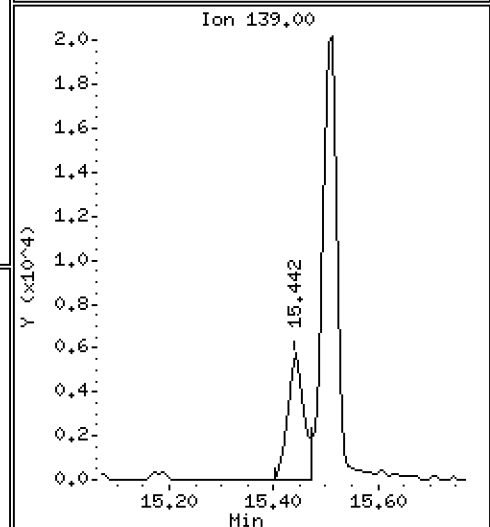
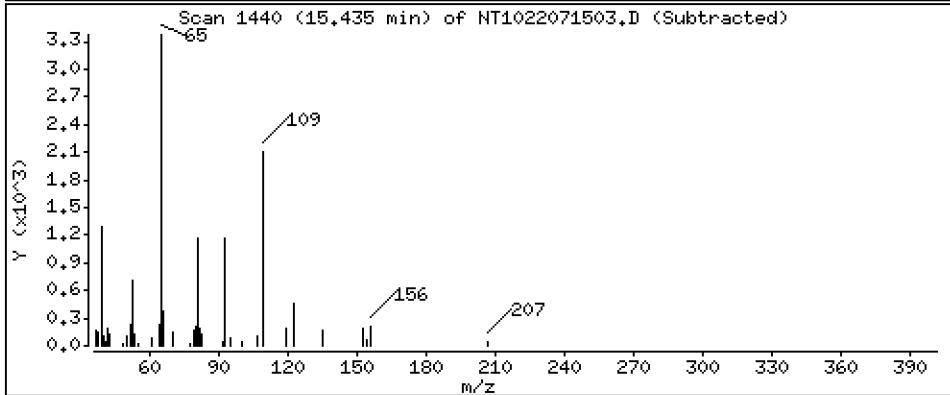
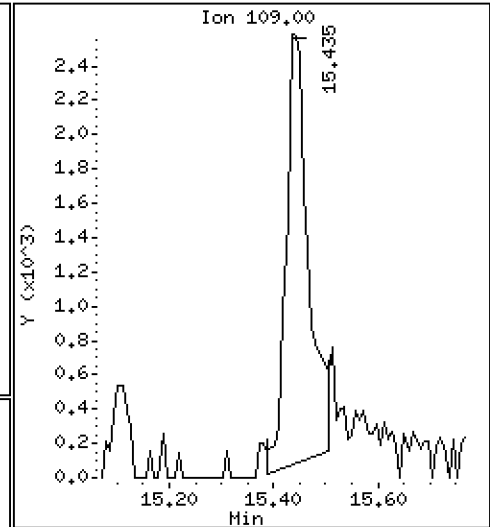
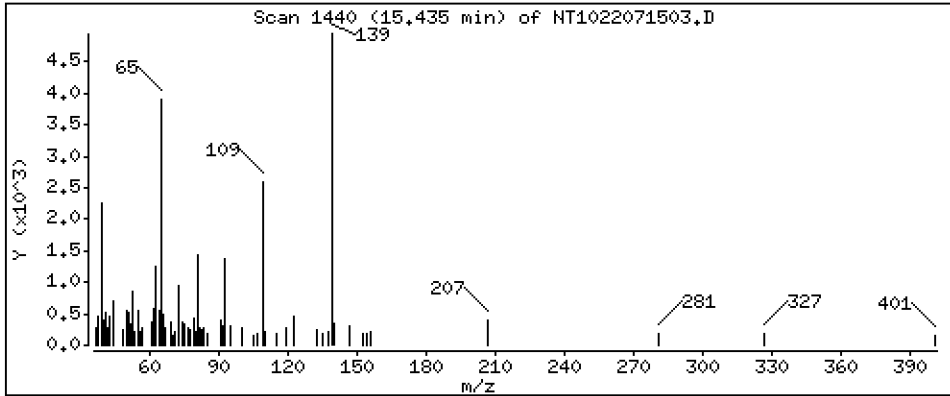
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,5949 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

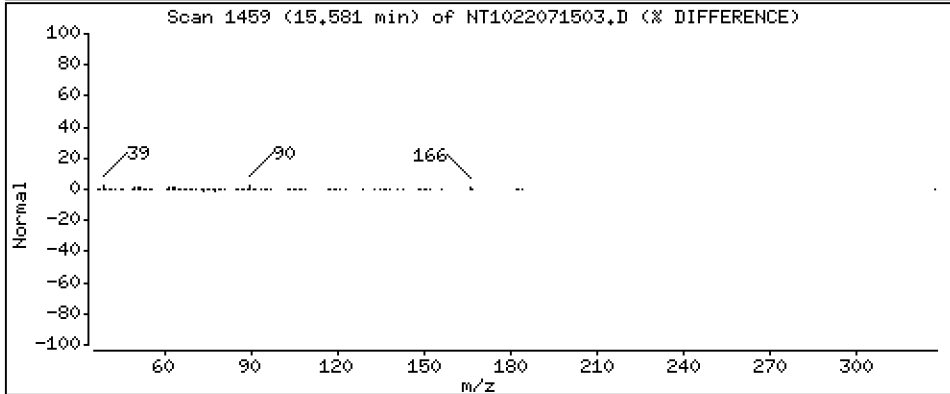
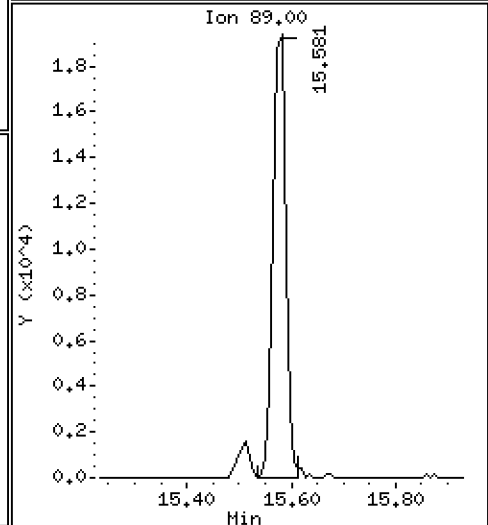
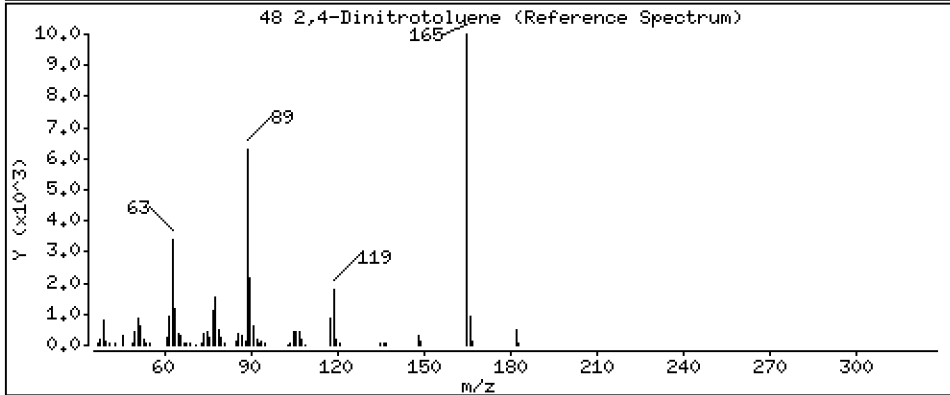
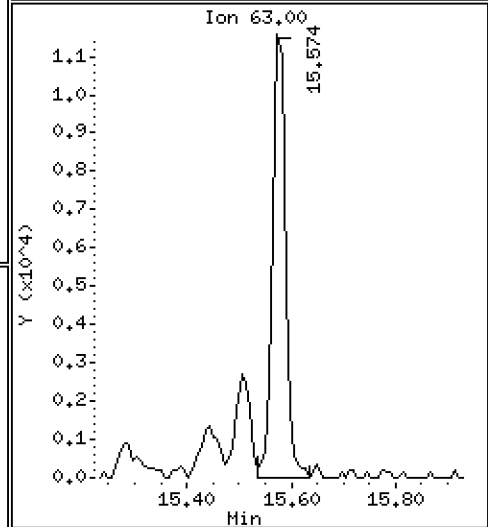
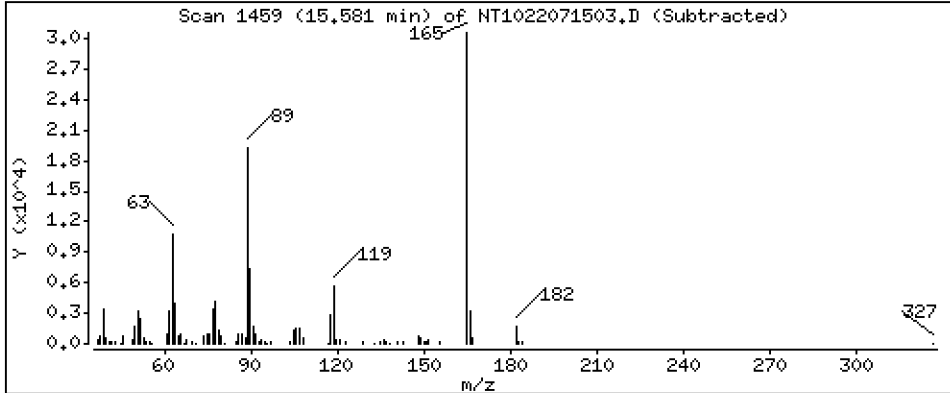
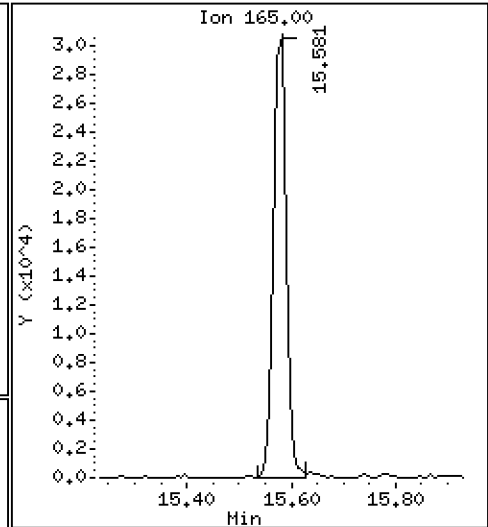
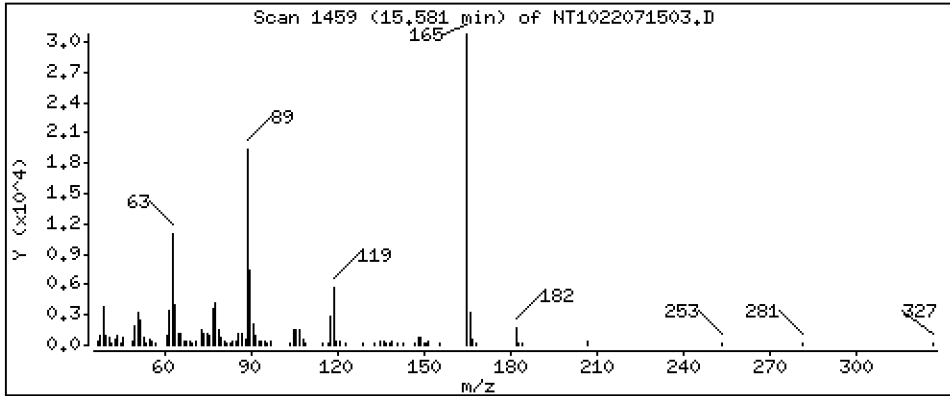
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 1,123 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

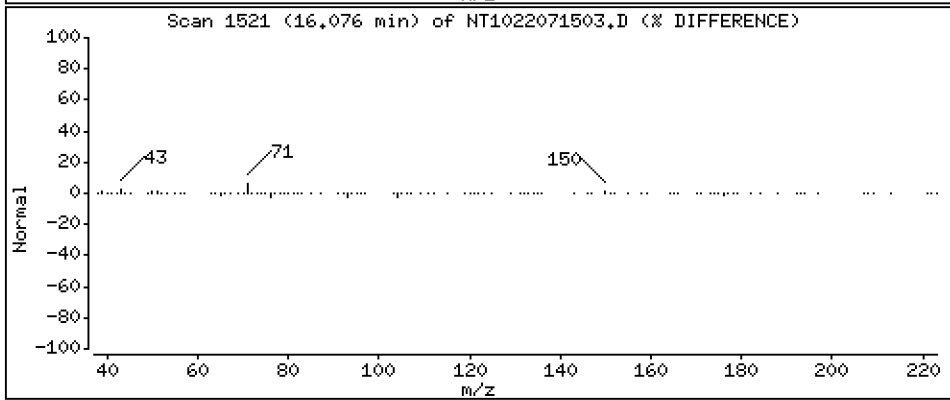
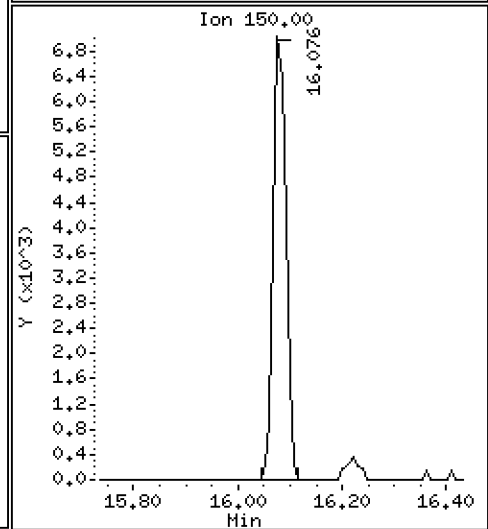
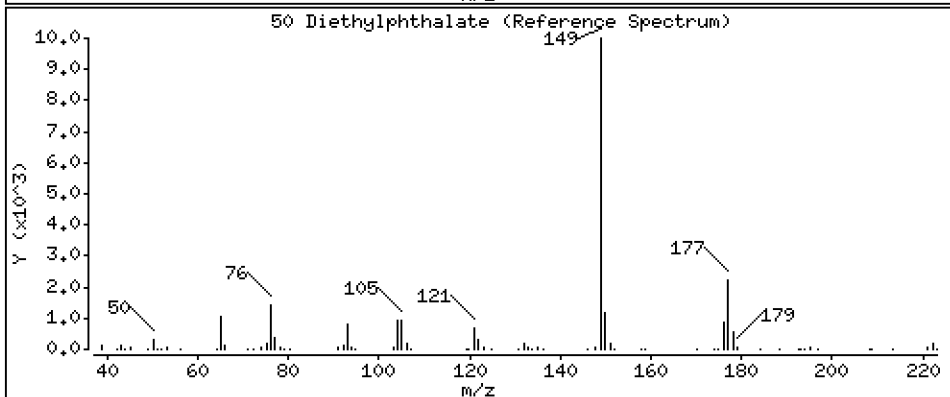
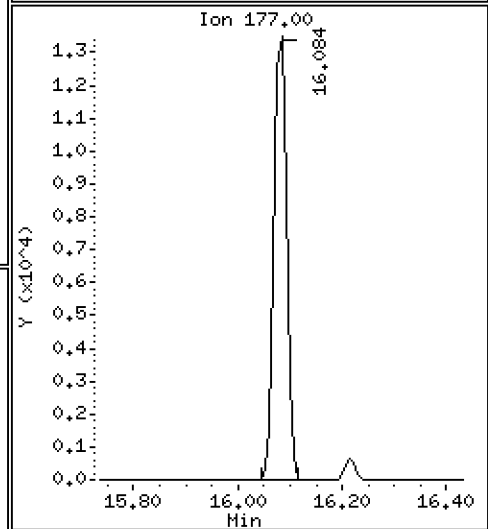
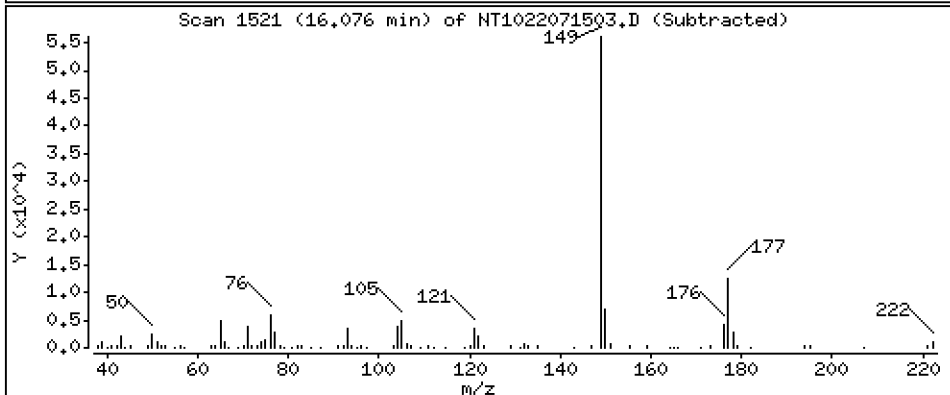
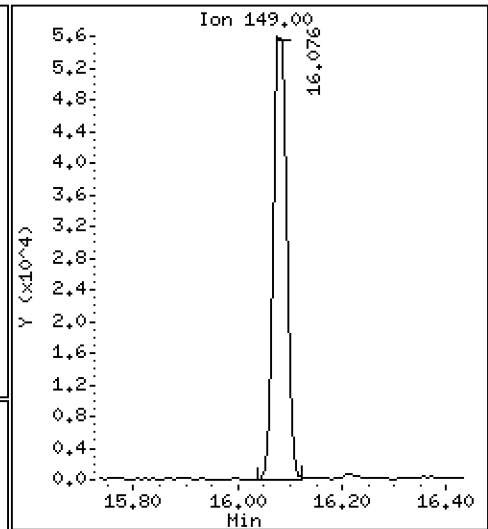
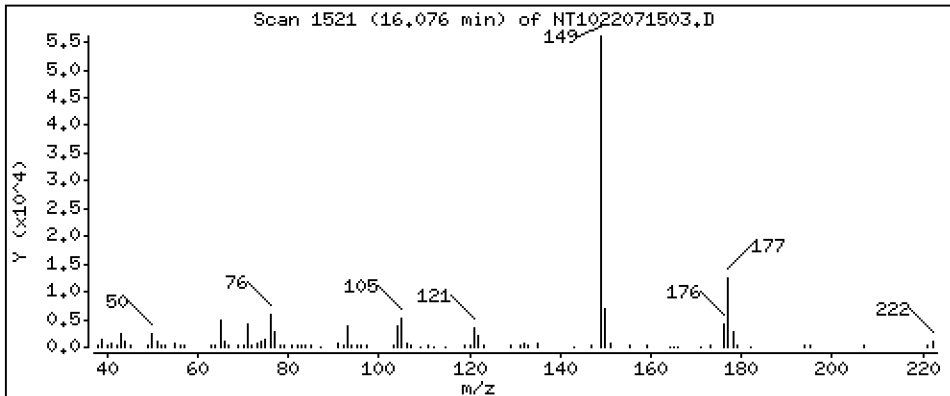
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,7722 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

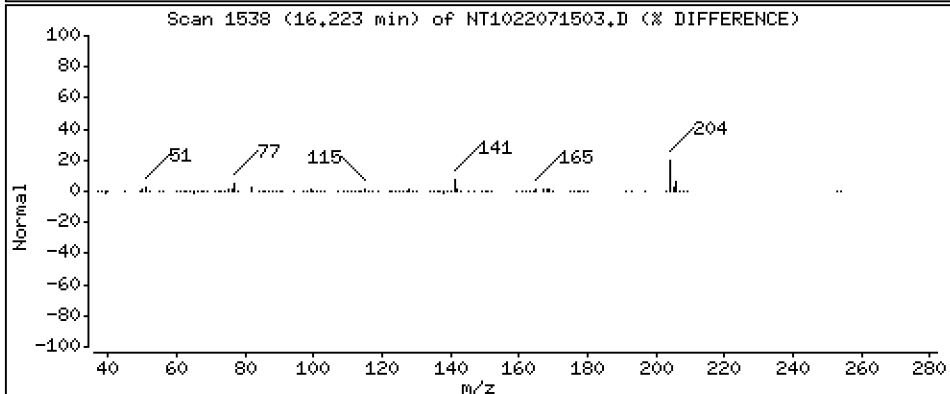
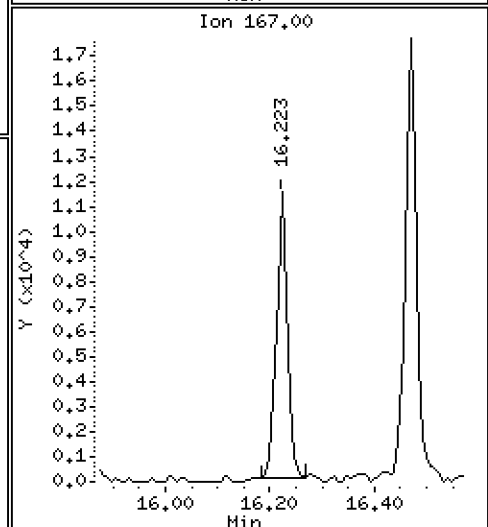
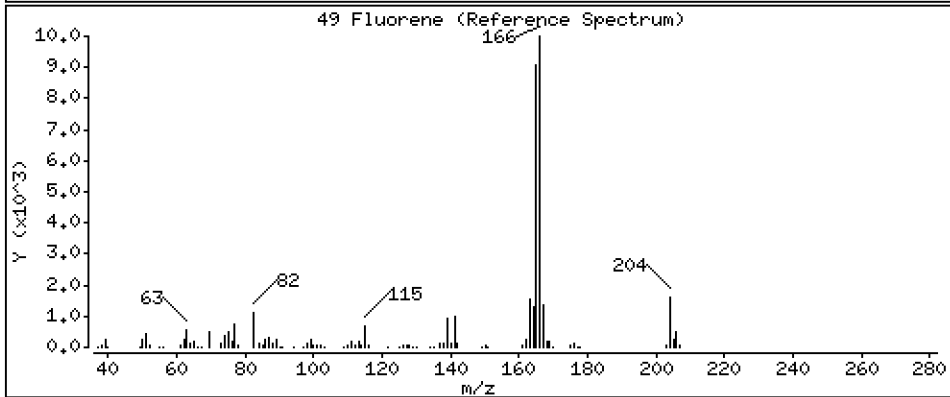
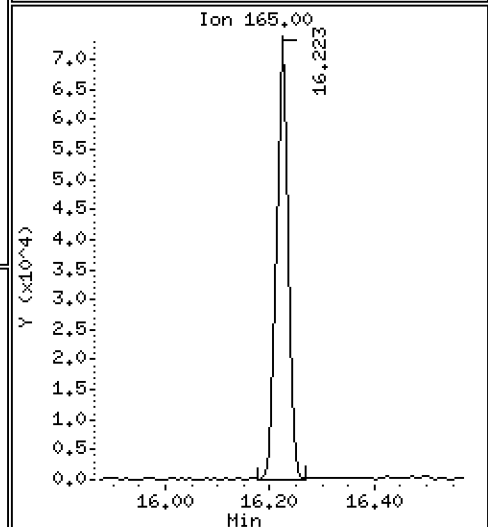
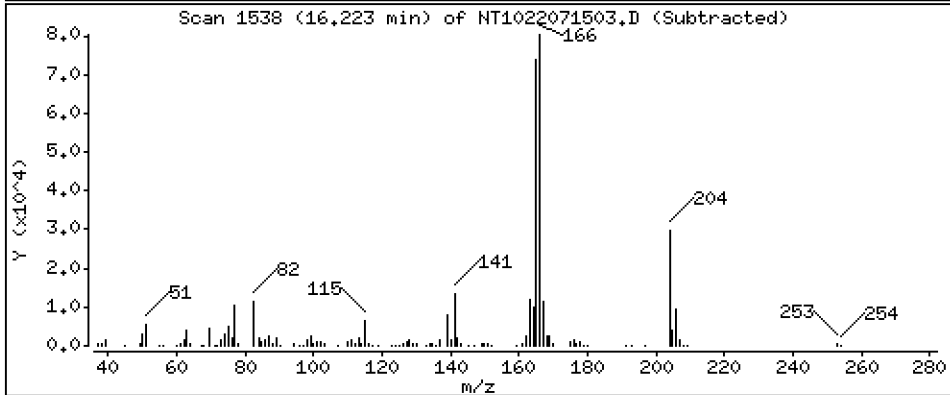
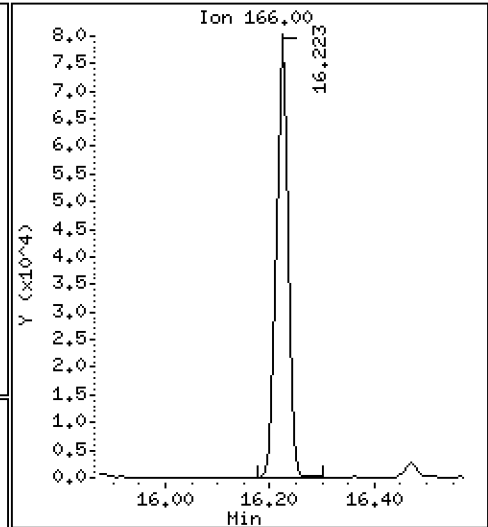
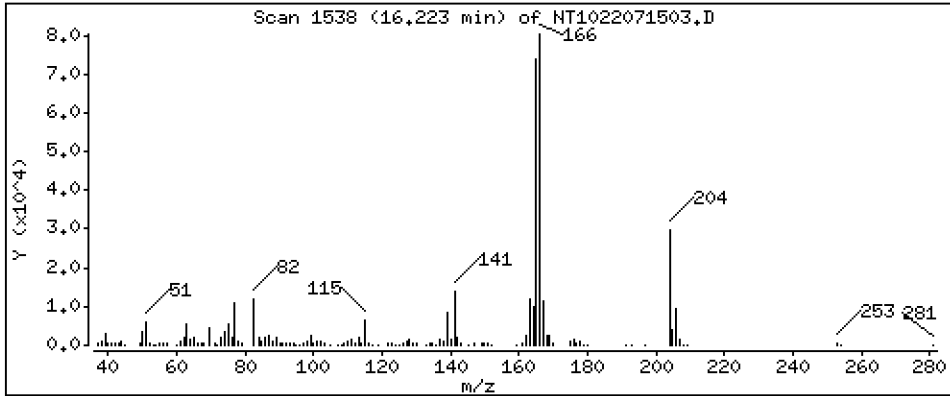
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5479 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

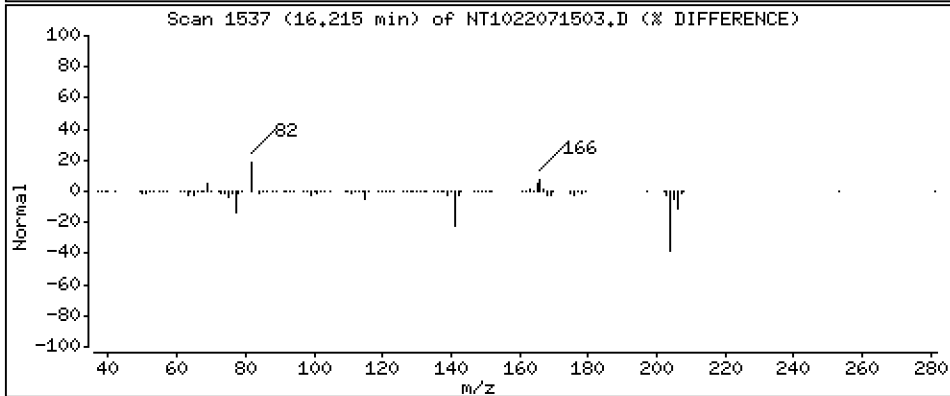
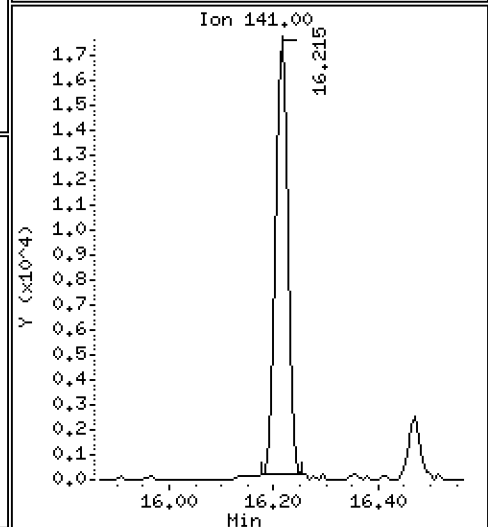
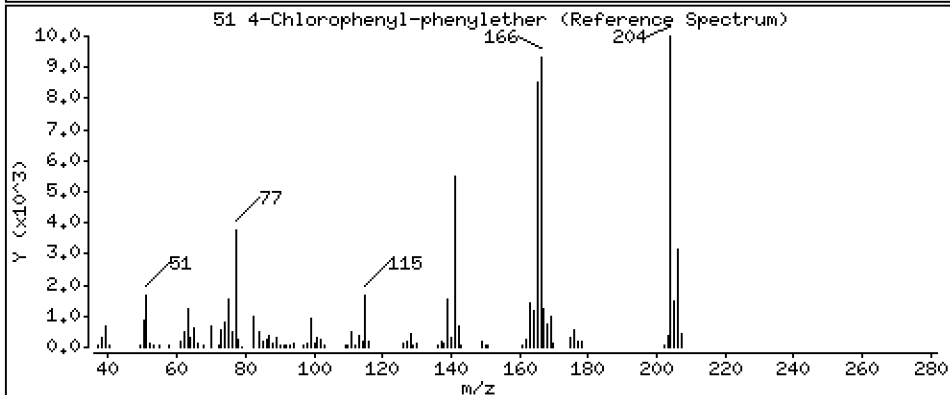
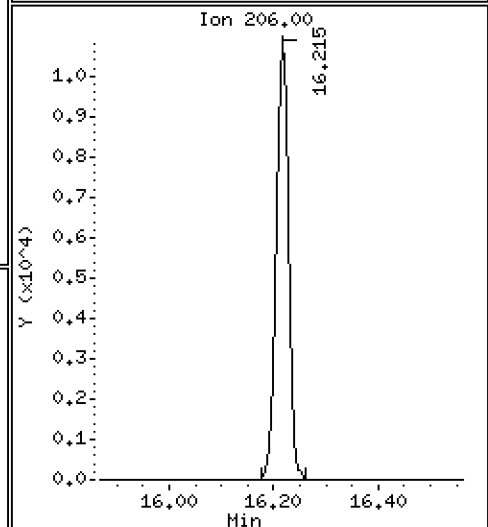
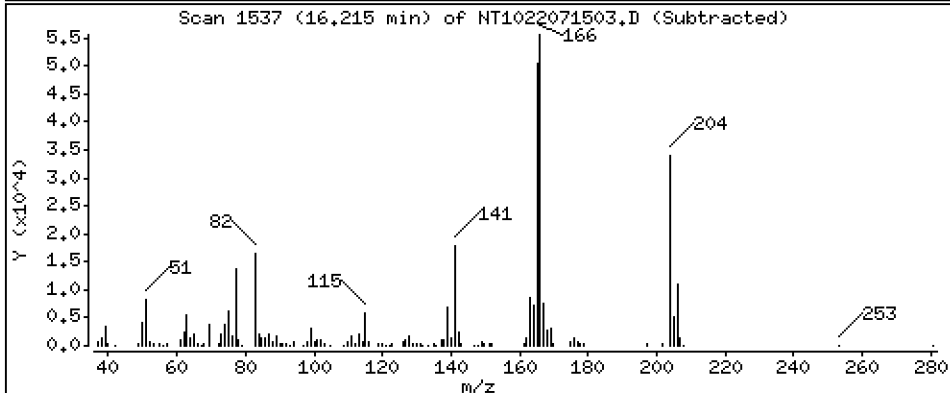
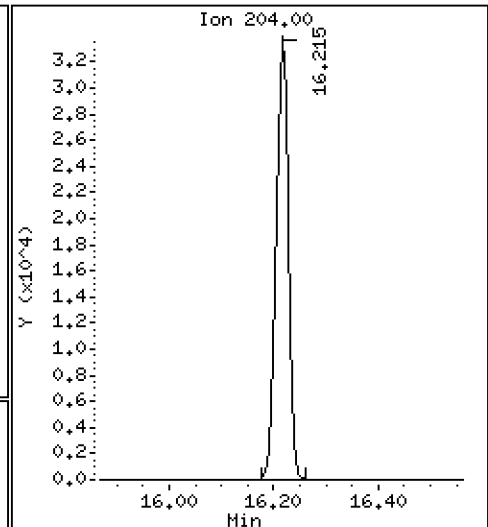
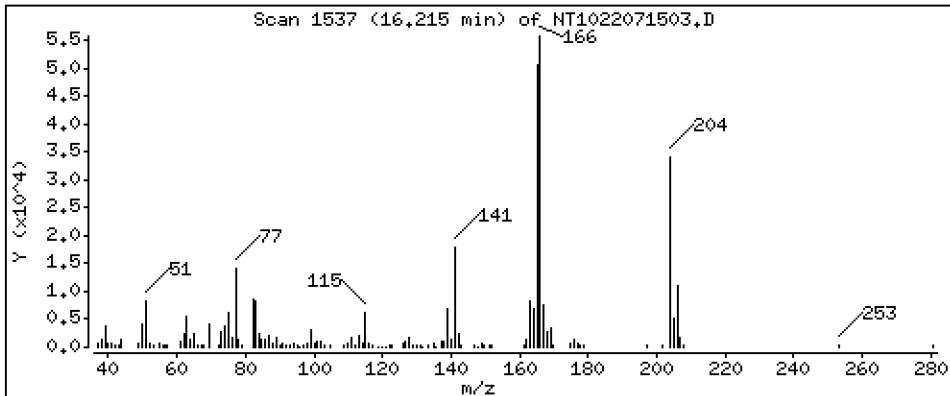
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,5522 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

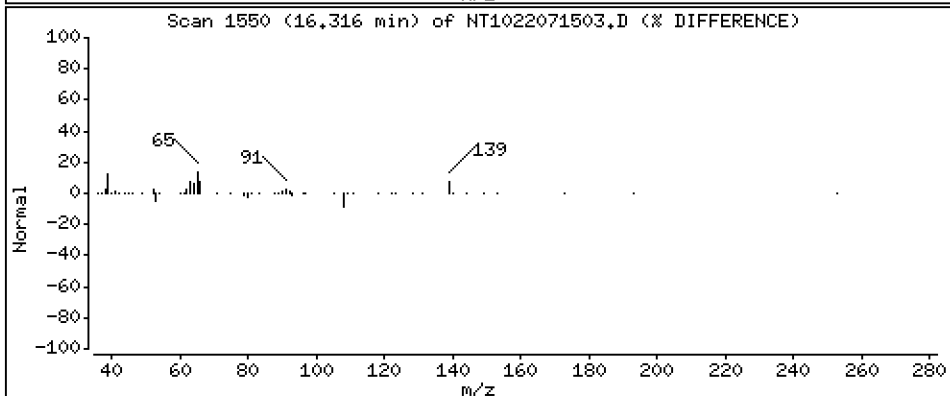
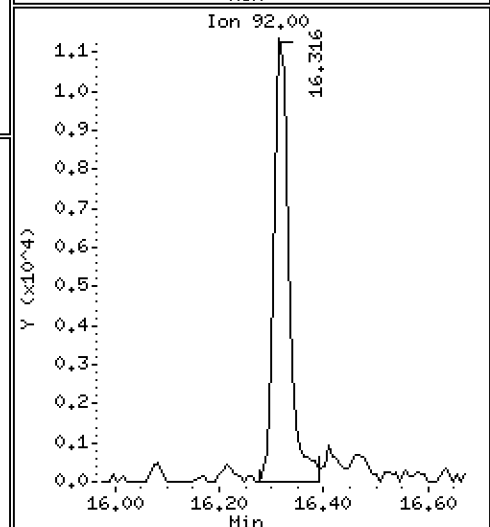
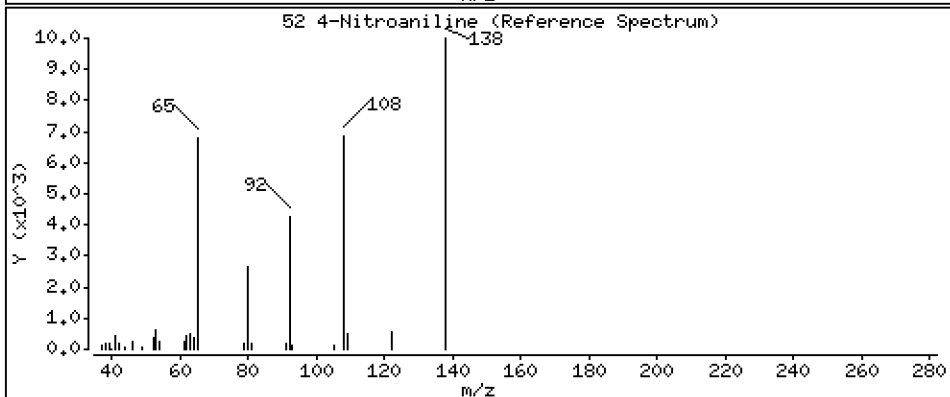
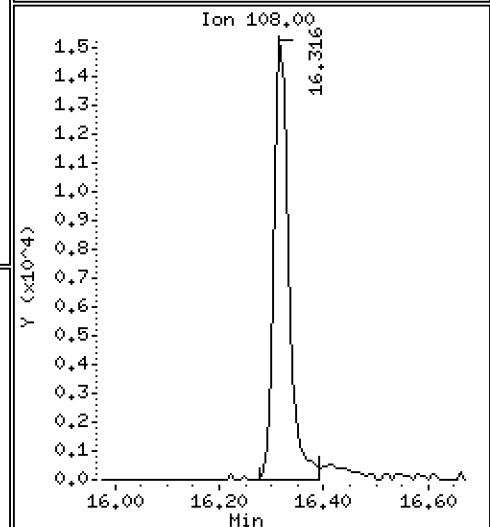
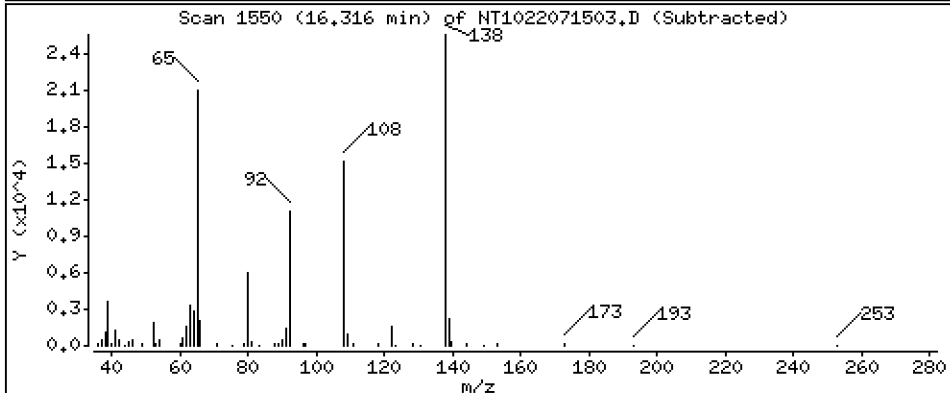
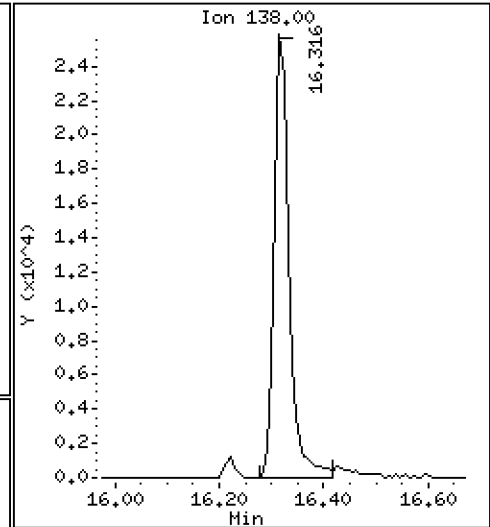
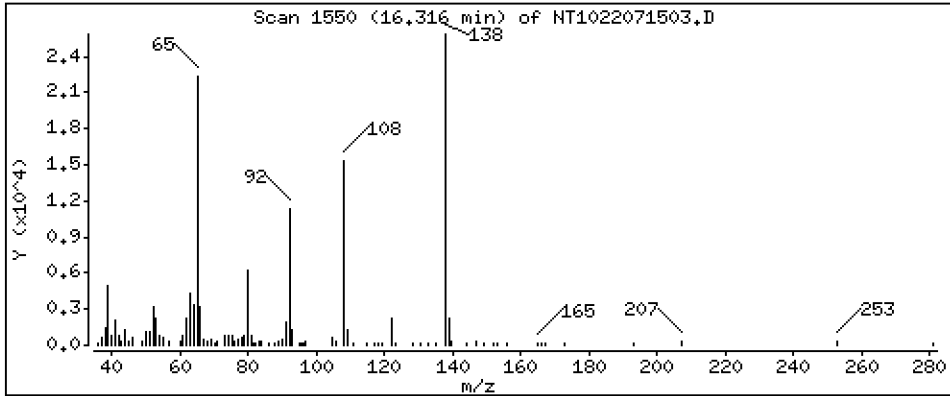
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 1,262 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

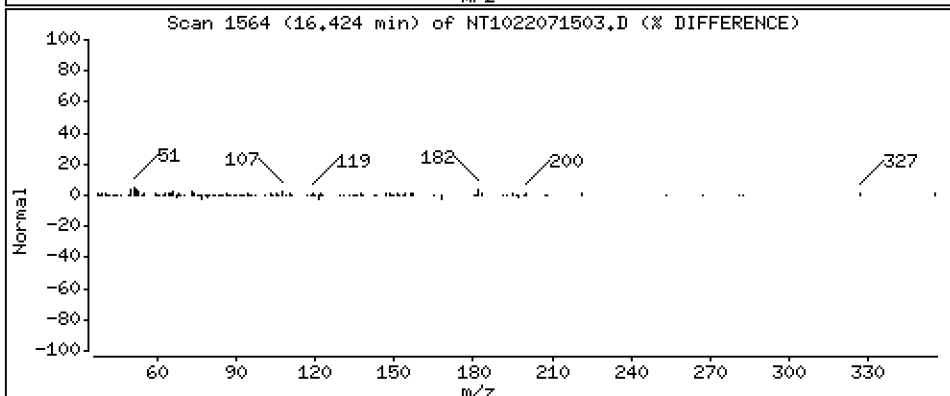
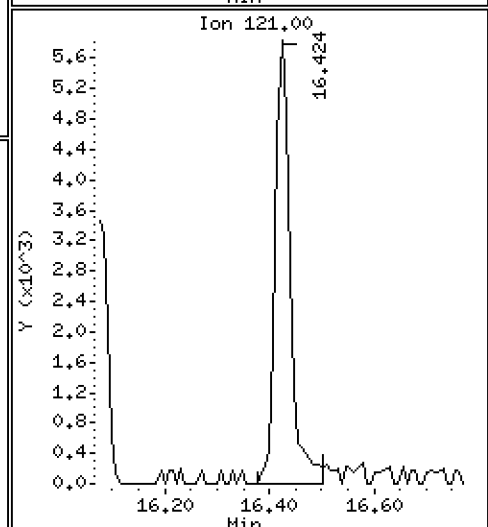
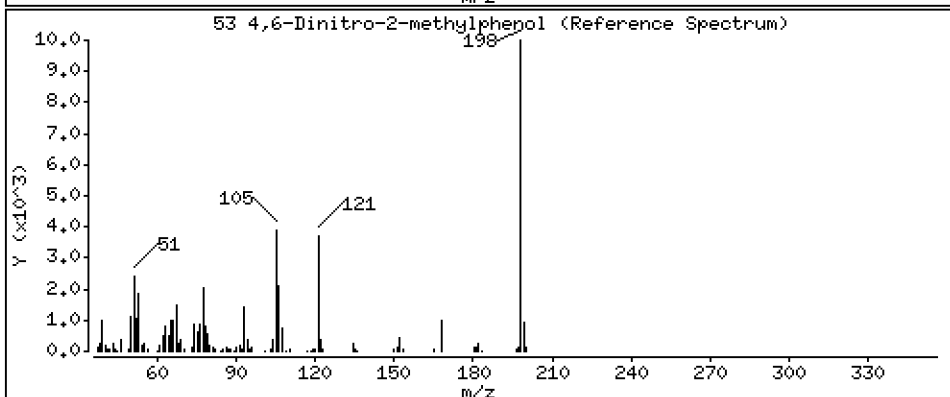
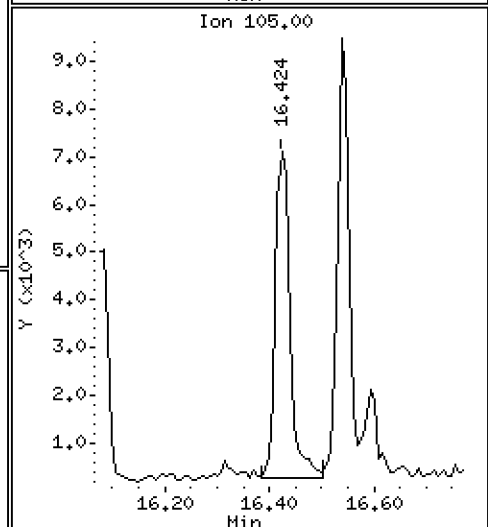
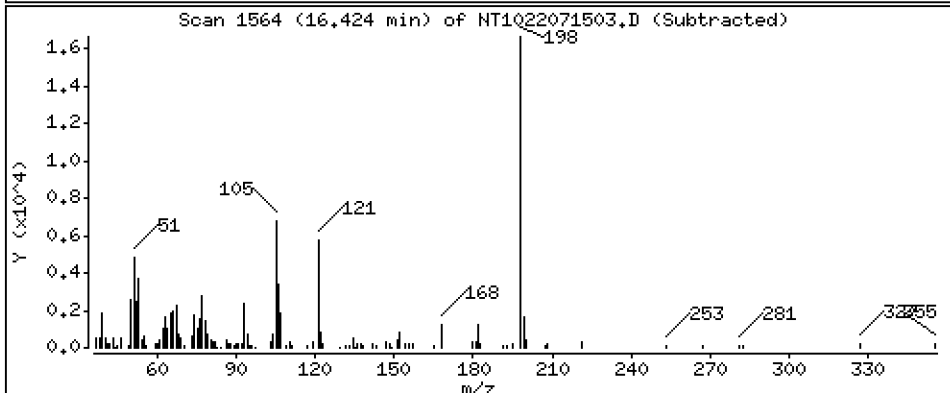
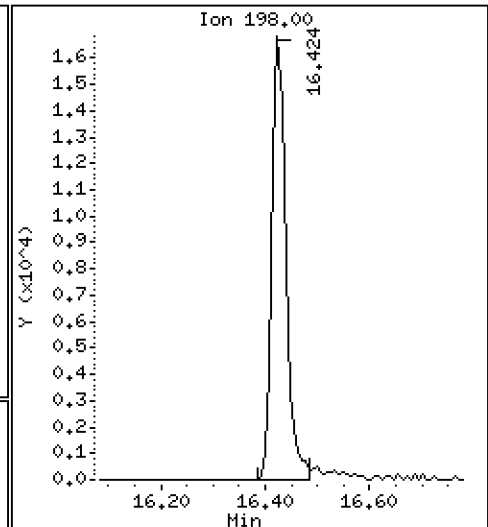
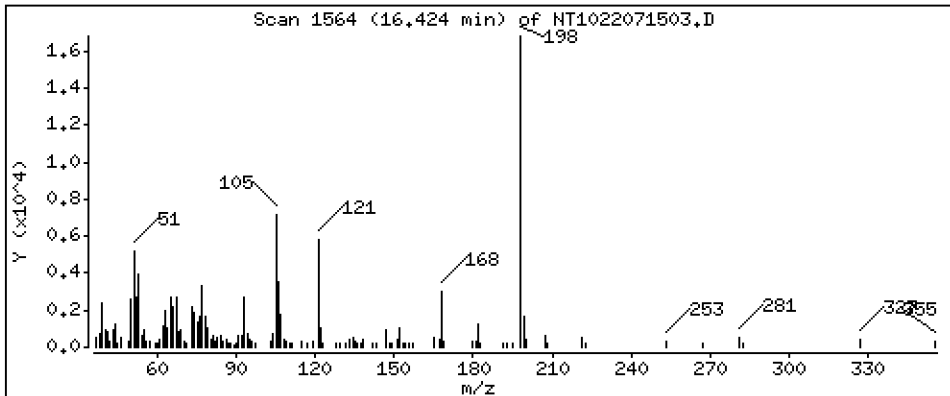
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 1,138 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

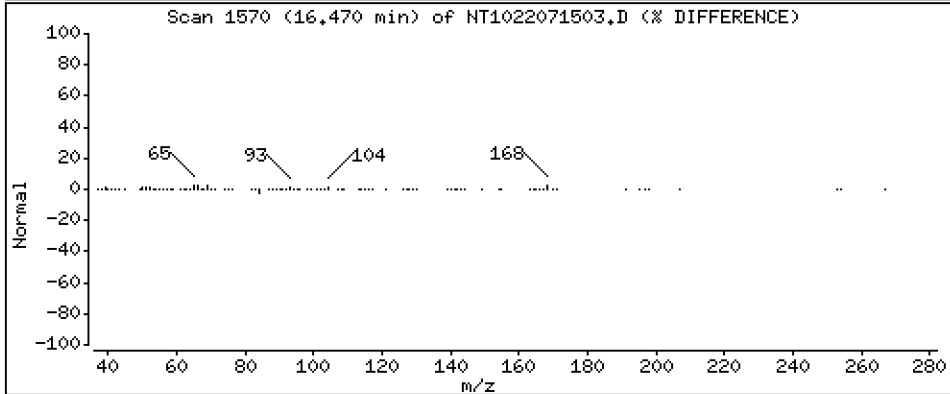
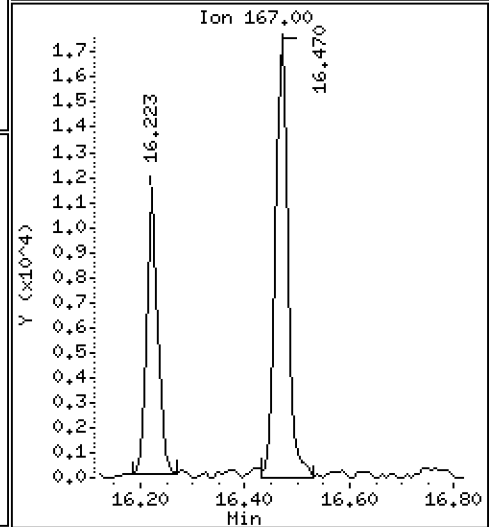
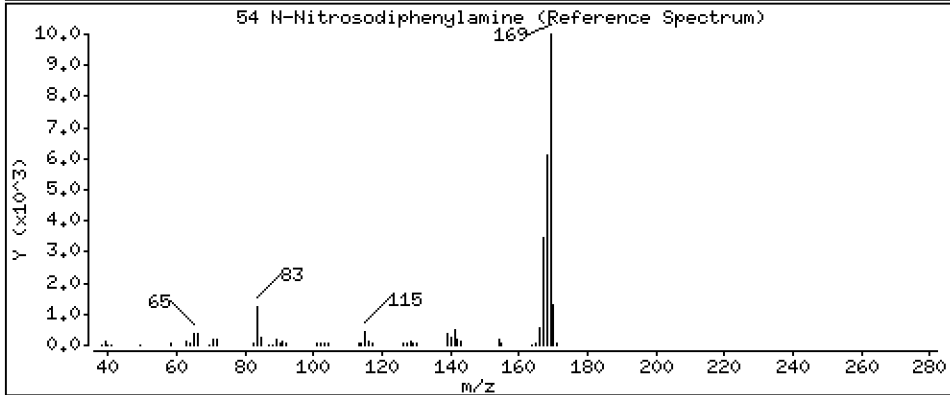
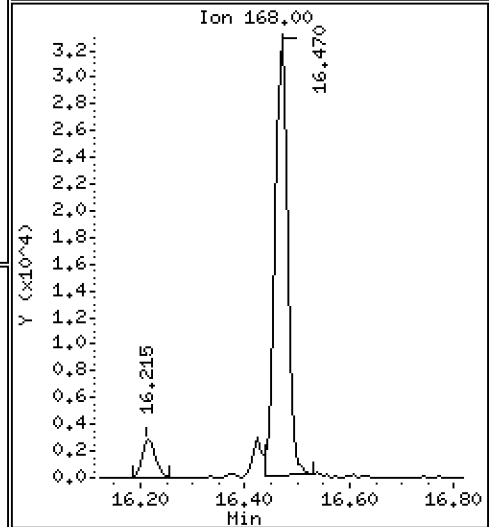
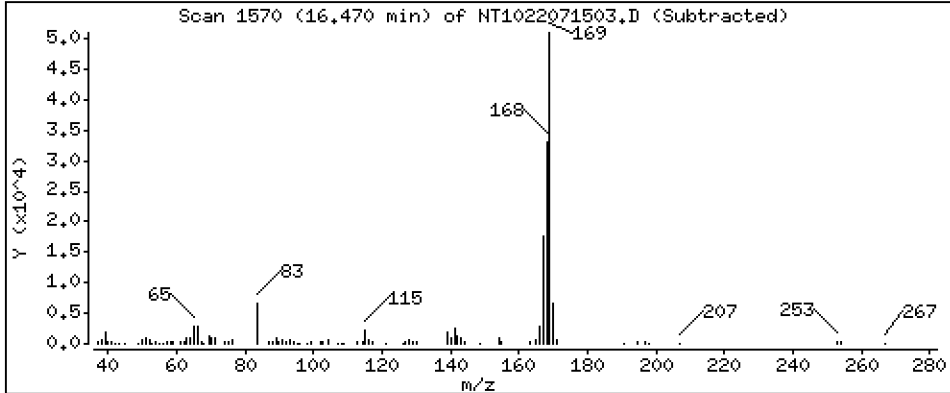
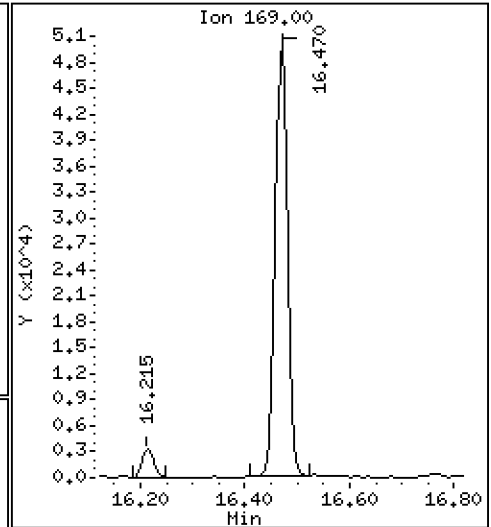
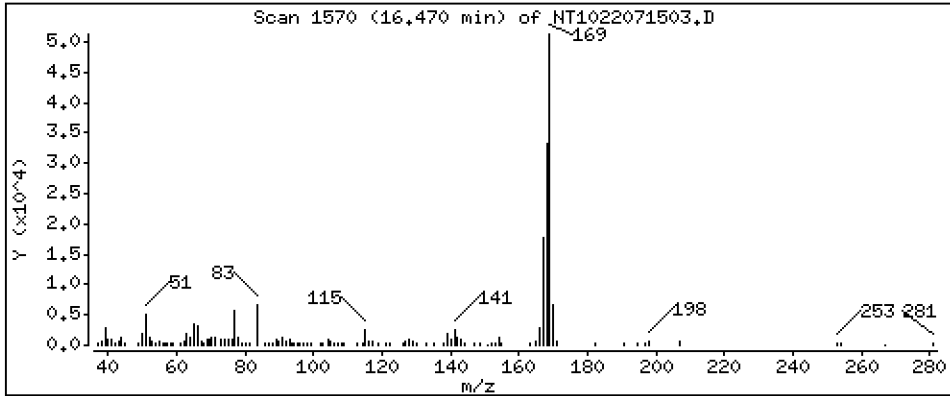
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,7292 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

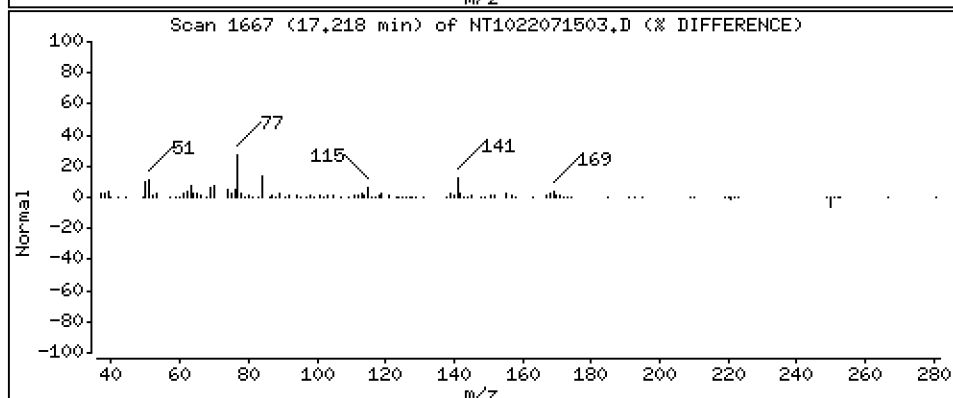
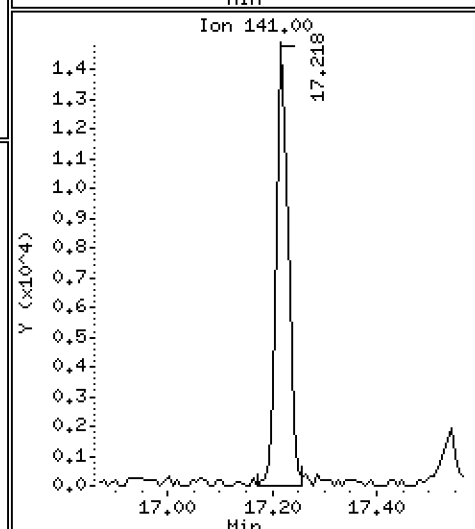
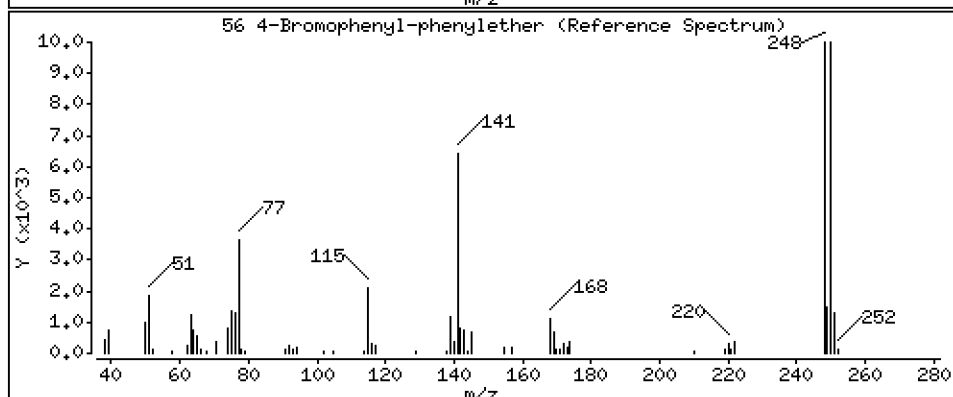
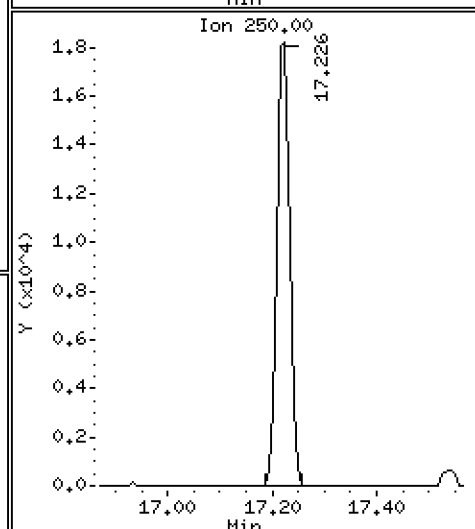
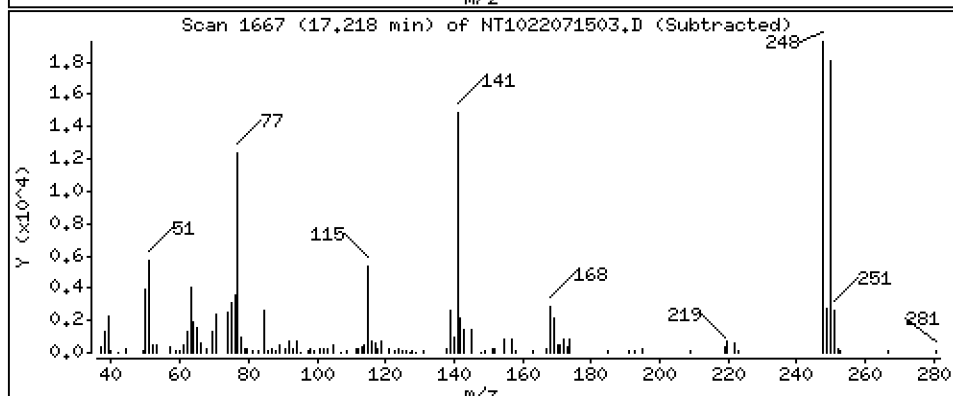
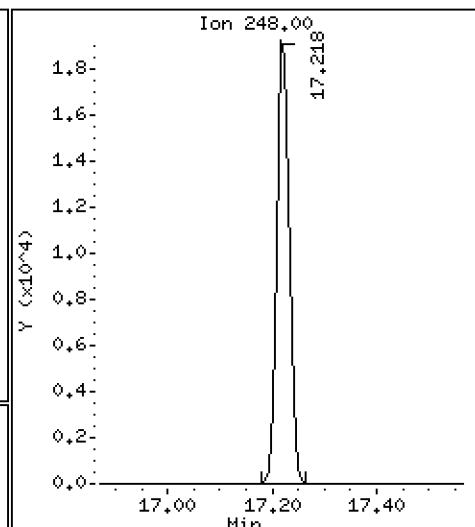
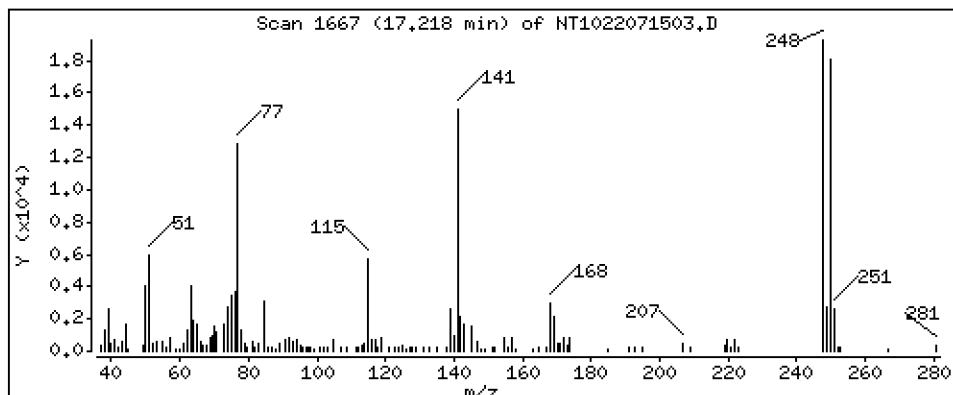
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,6215 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

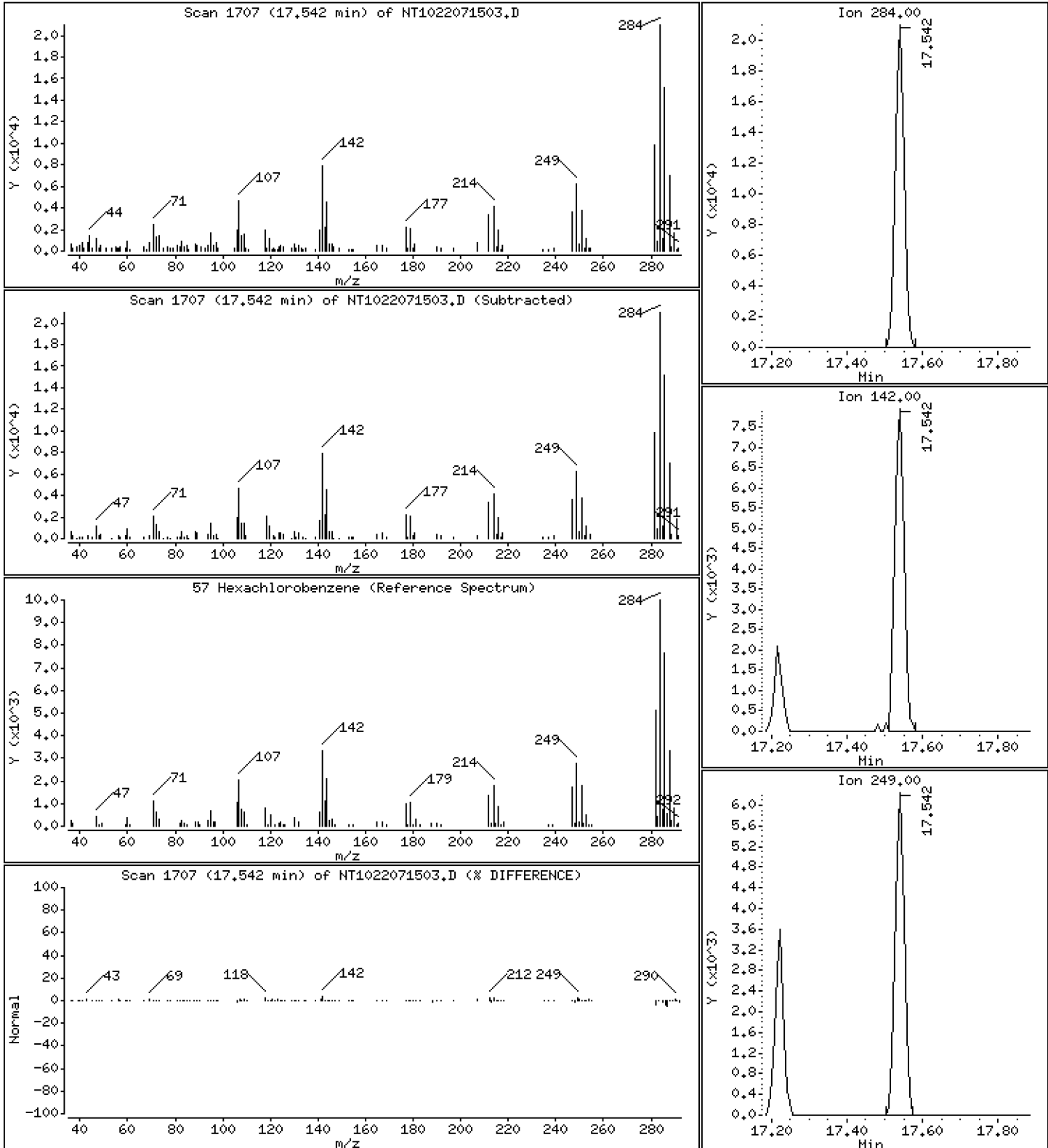
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,6874 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

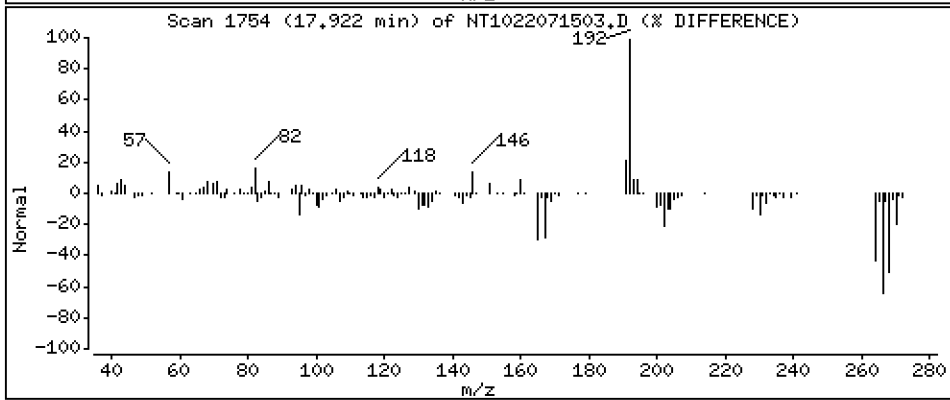
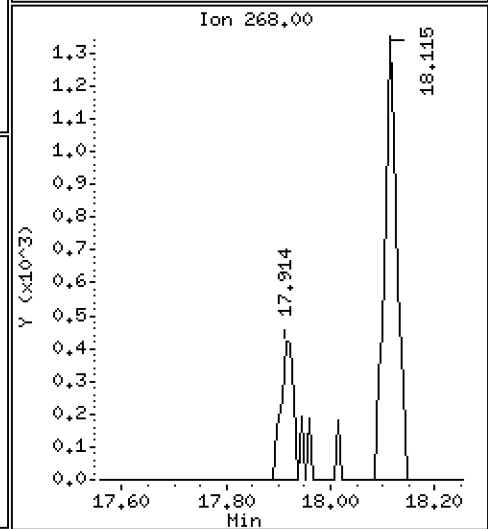
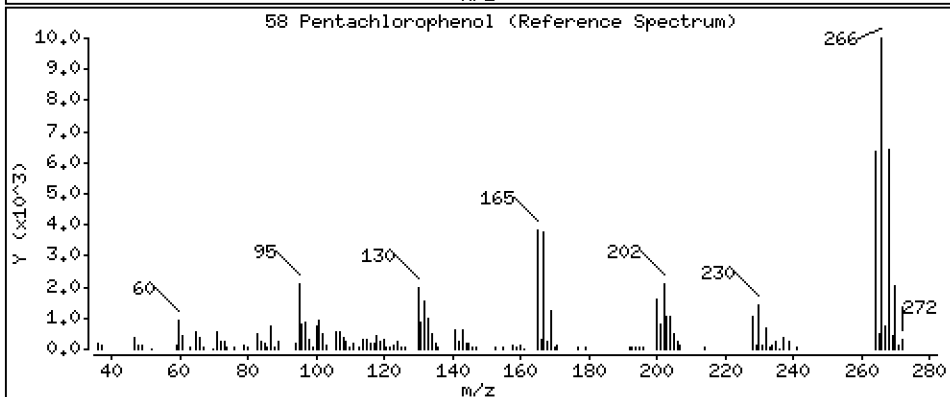
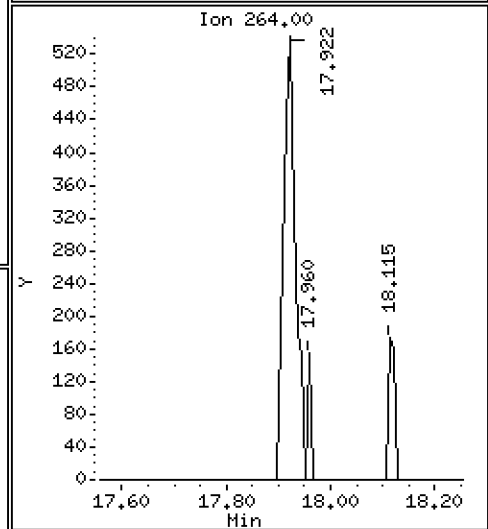
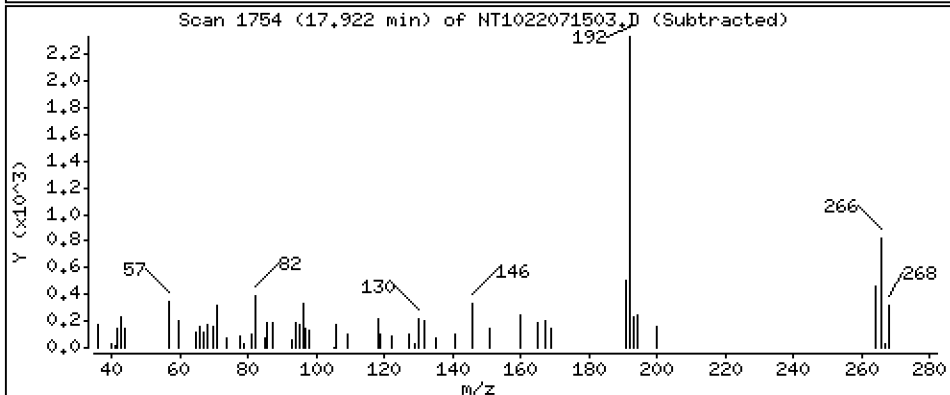
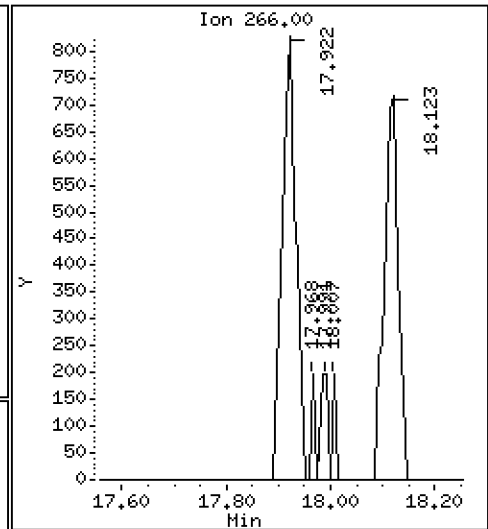
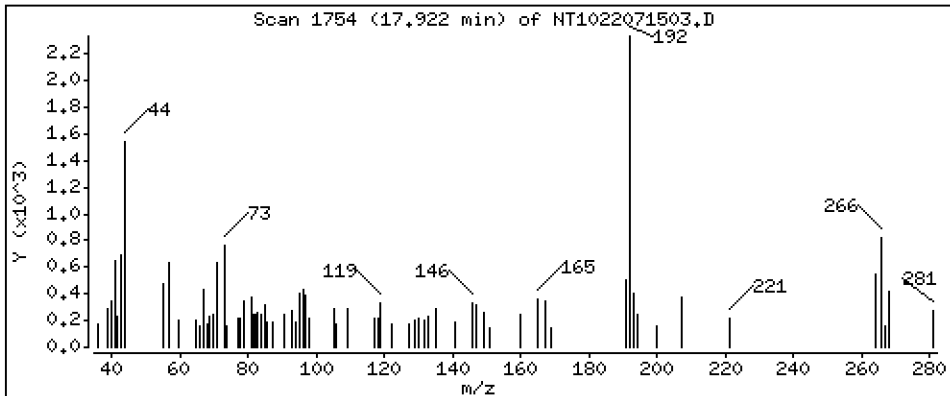
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,1515 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

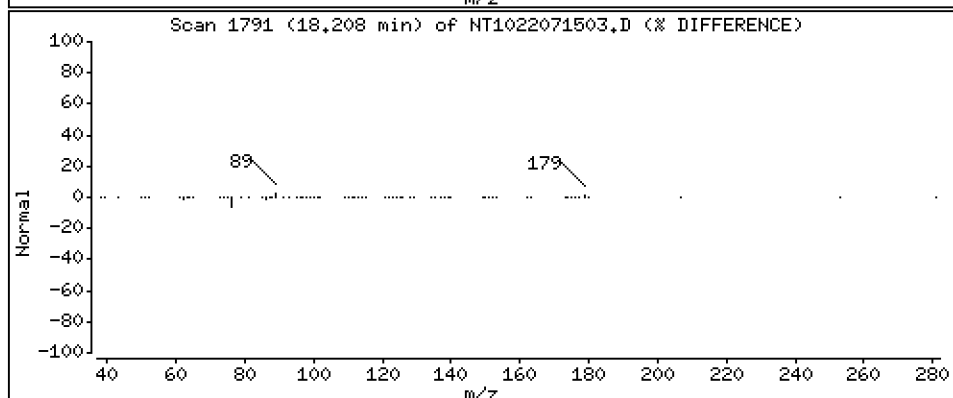
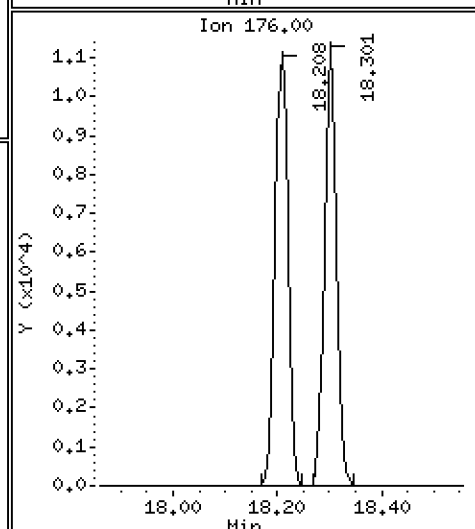
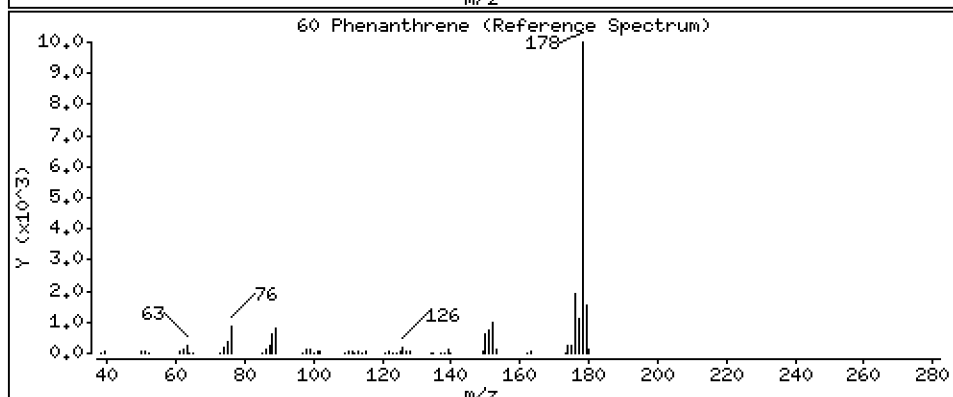
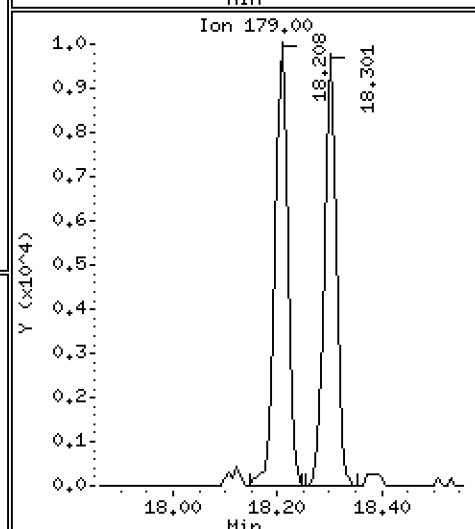
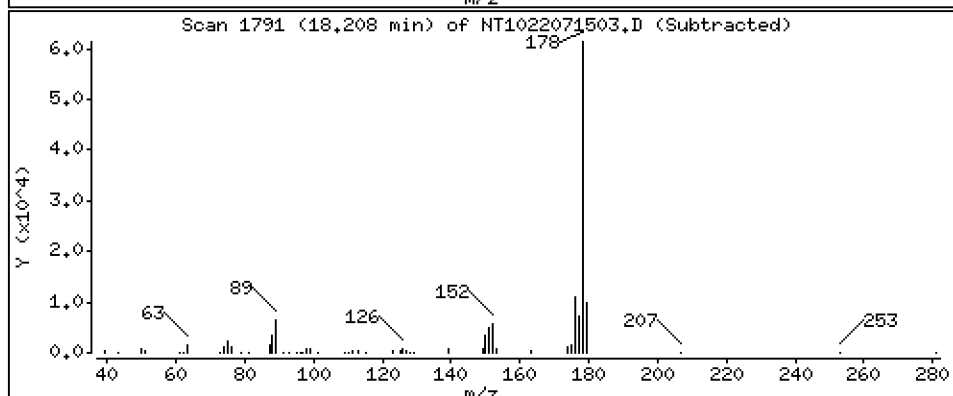
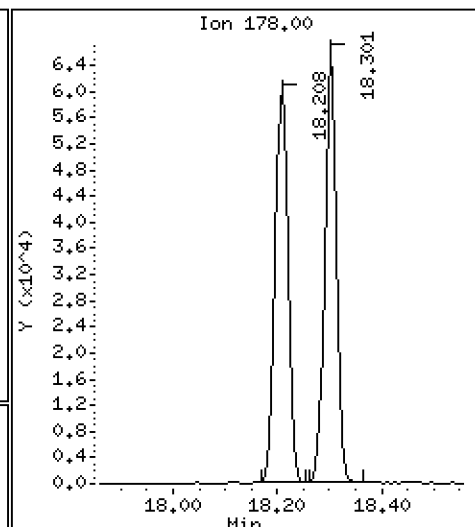
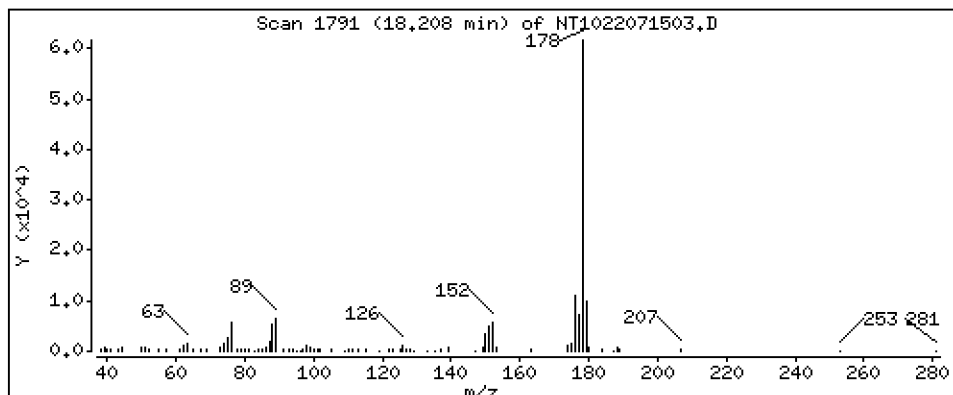
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5607 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

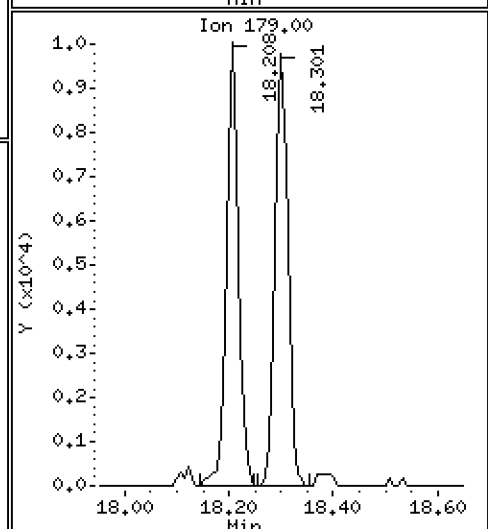
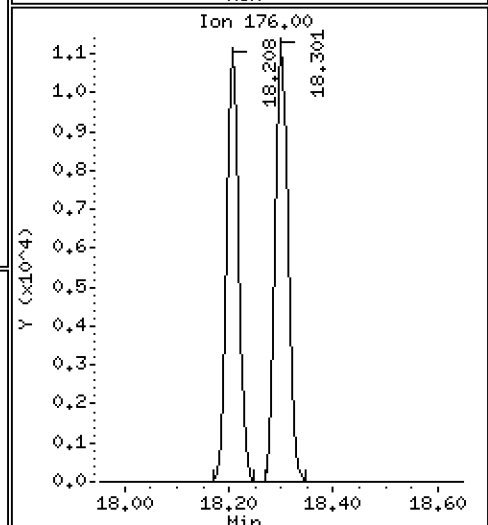
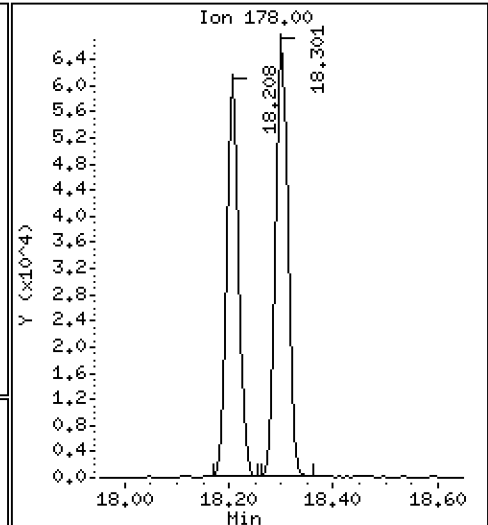
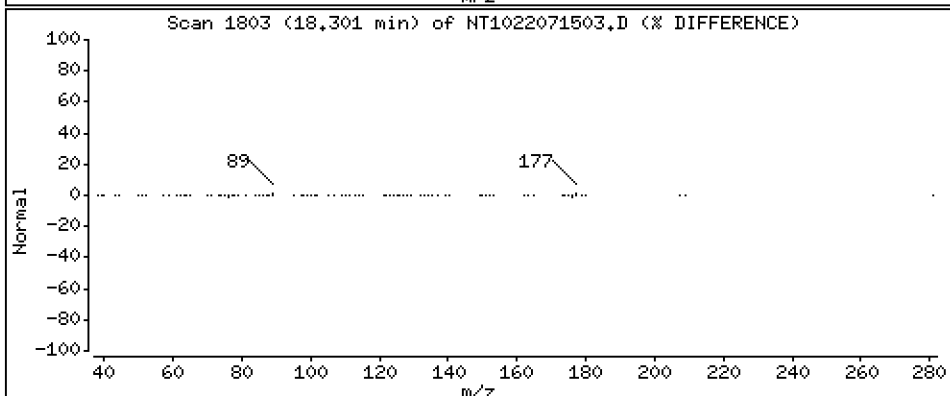
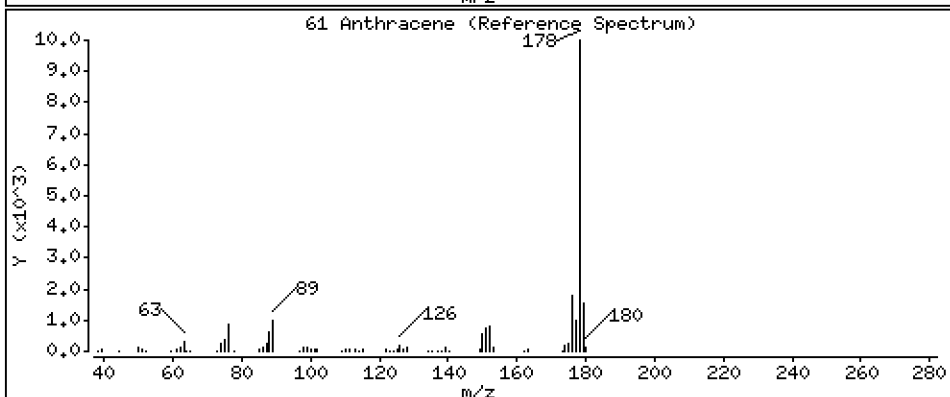
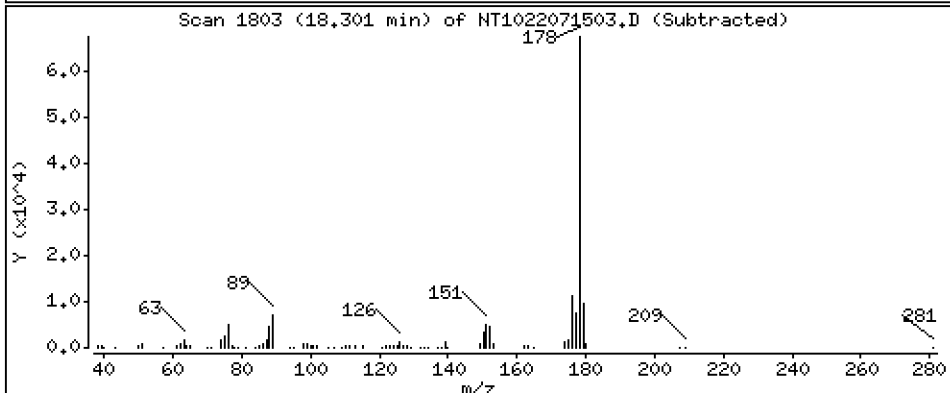
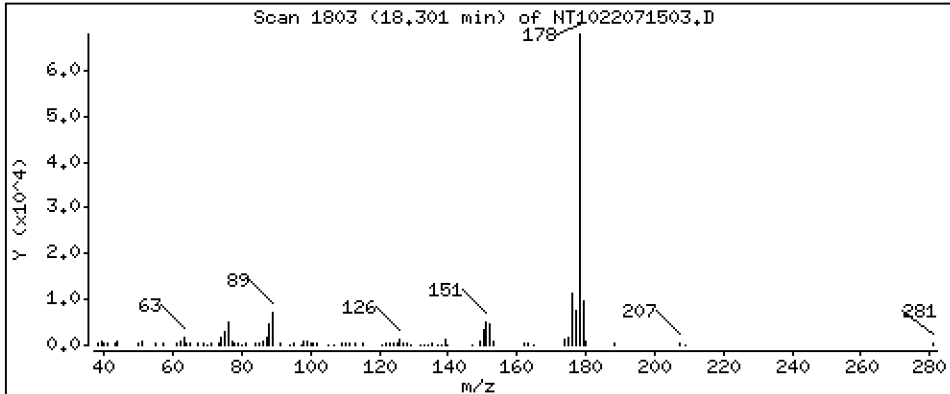
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5510 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

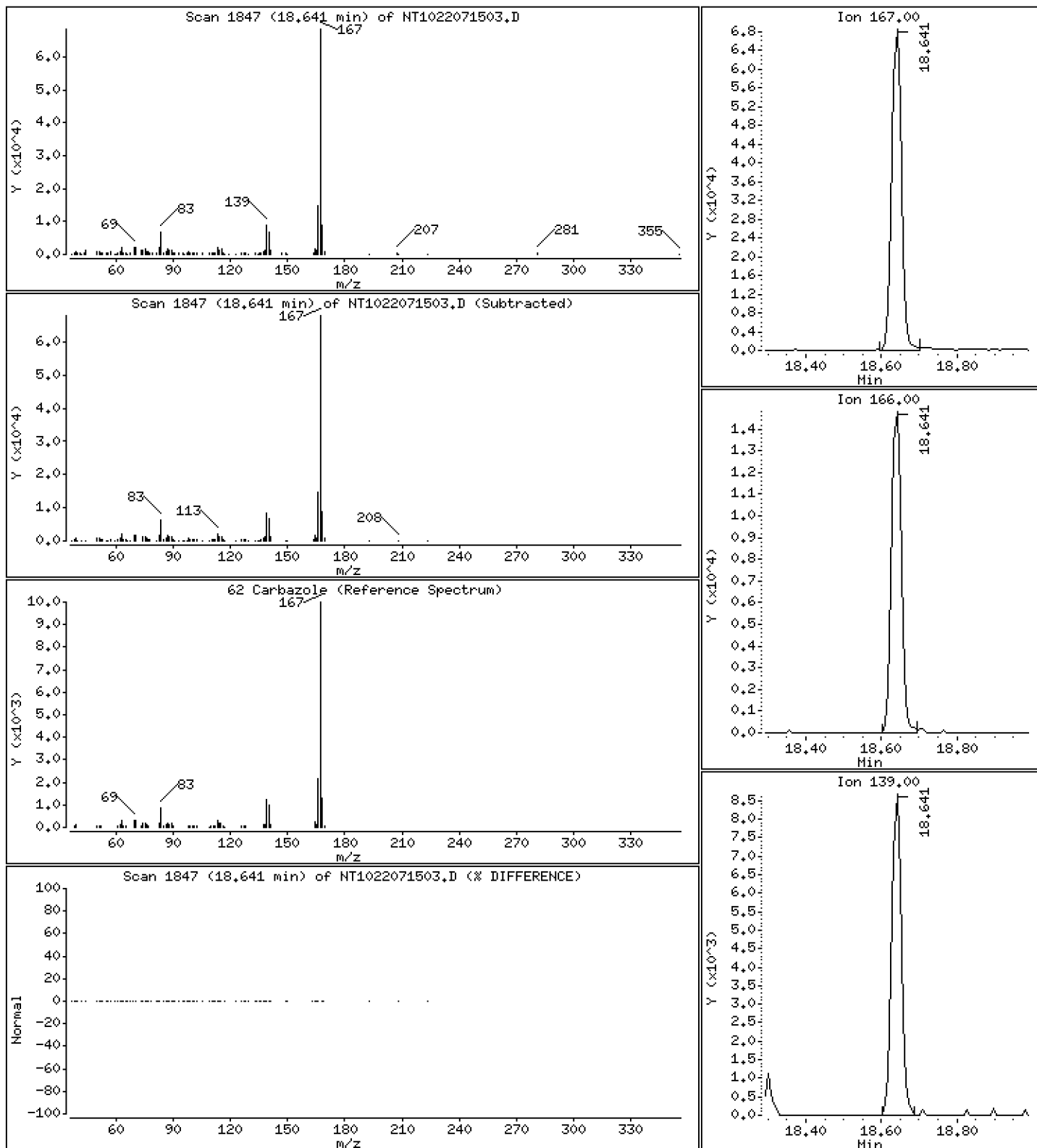
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,6696 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

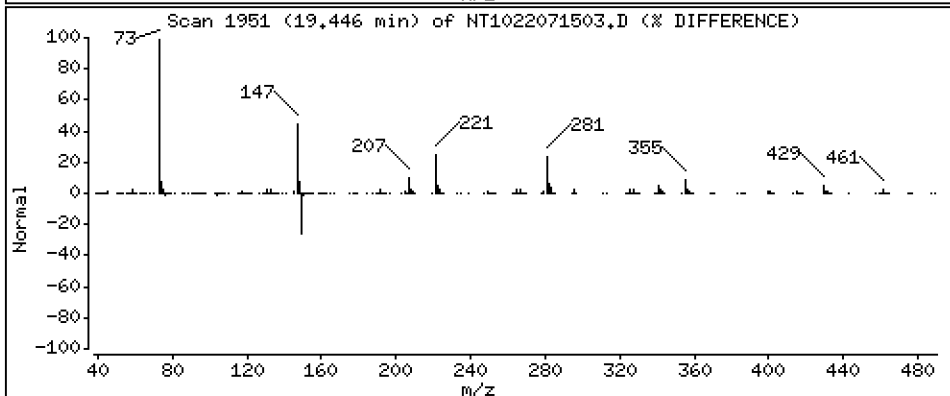
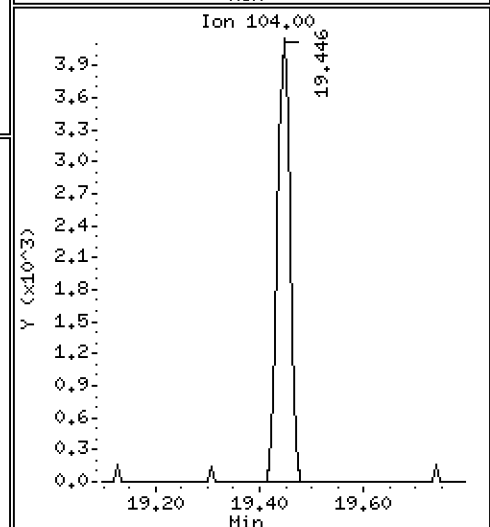
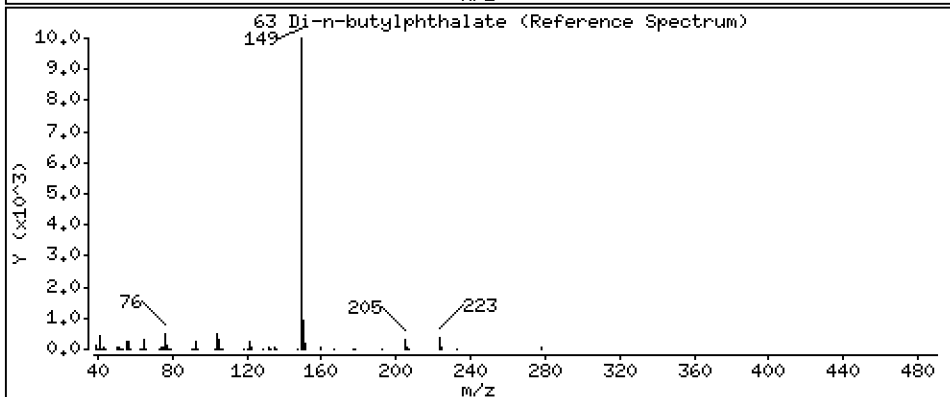
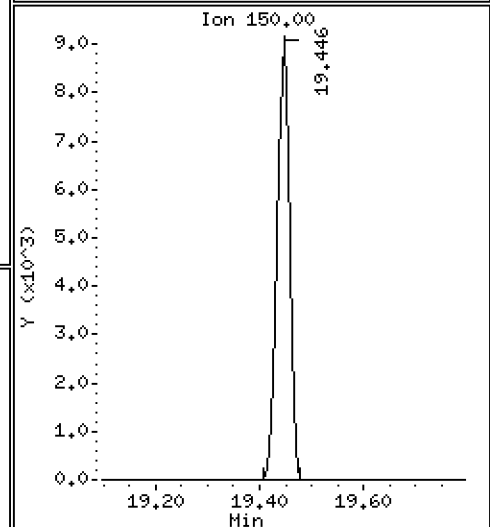
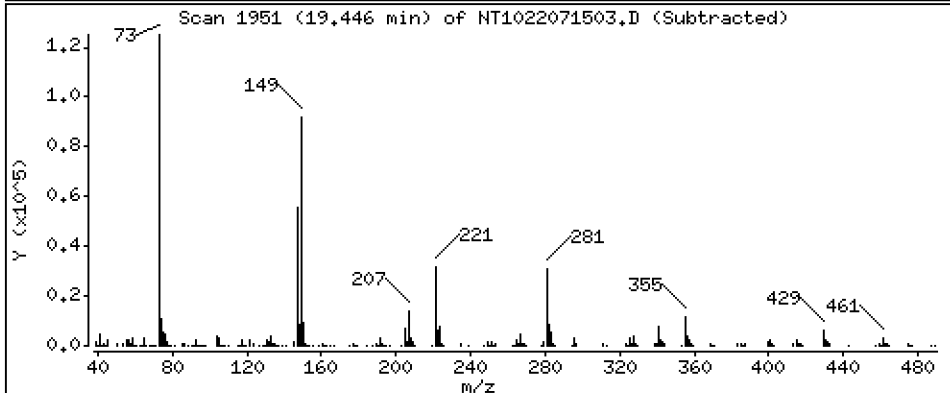
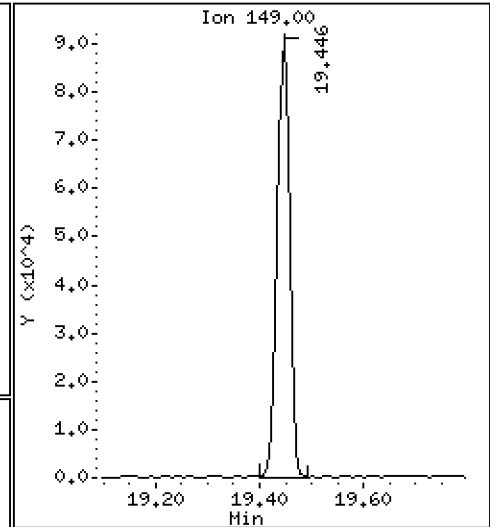
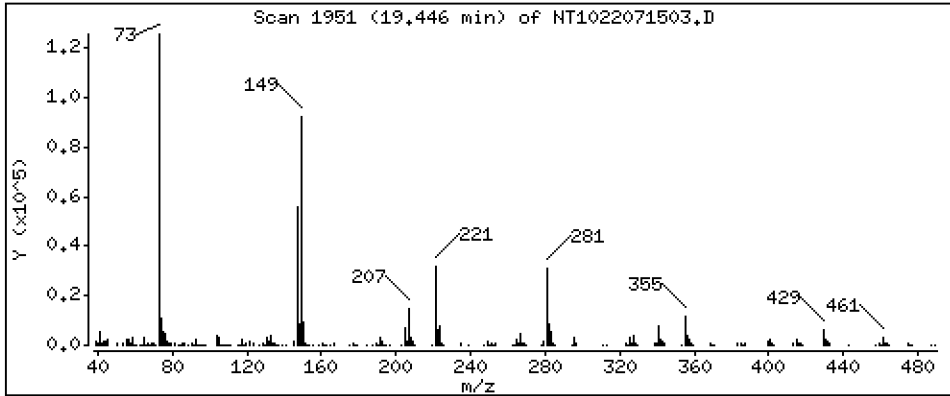
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,5489 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

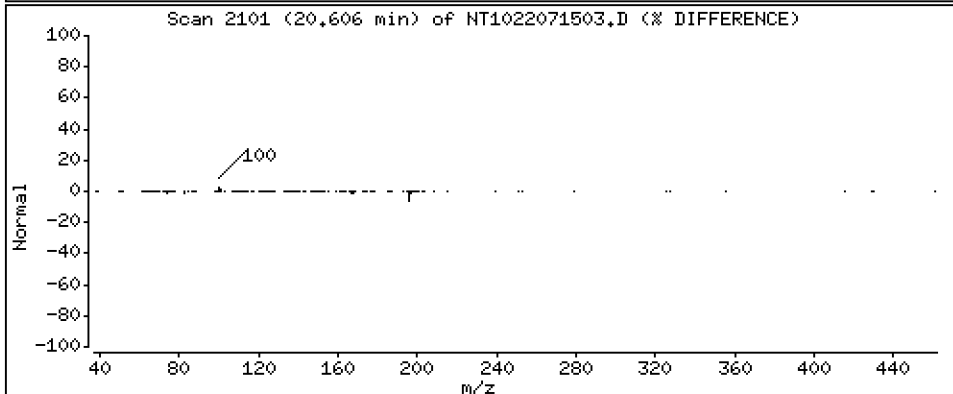
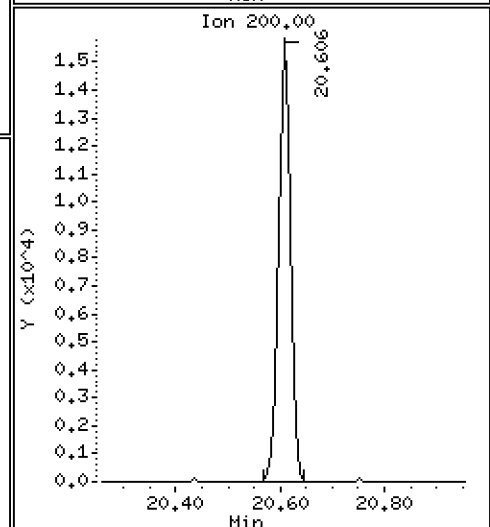
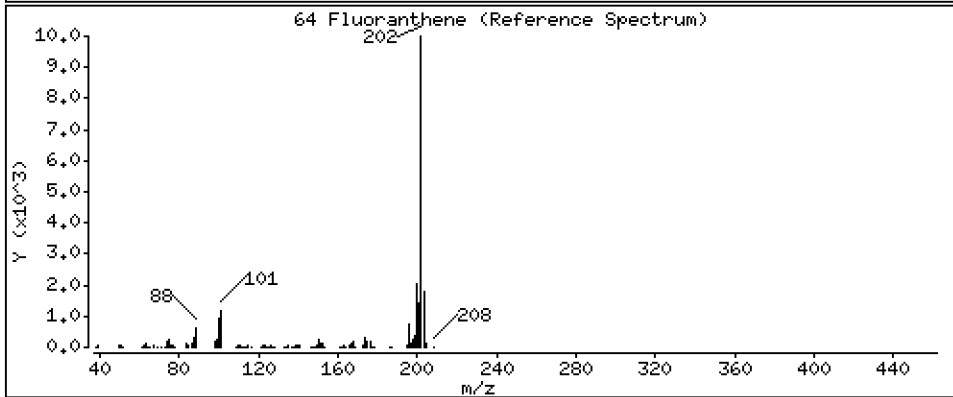
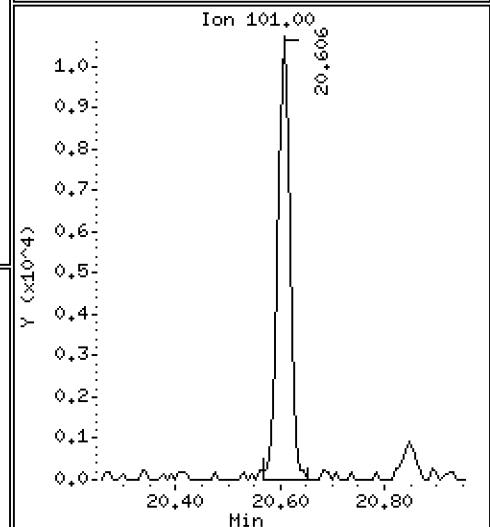
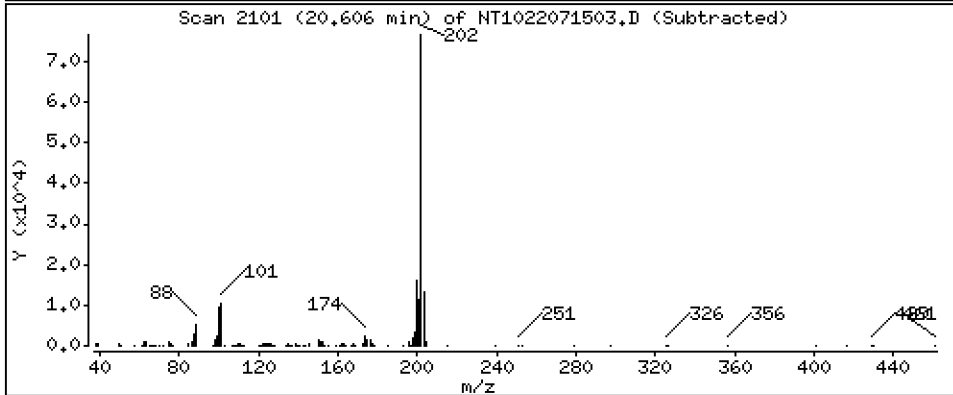
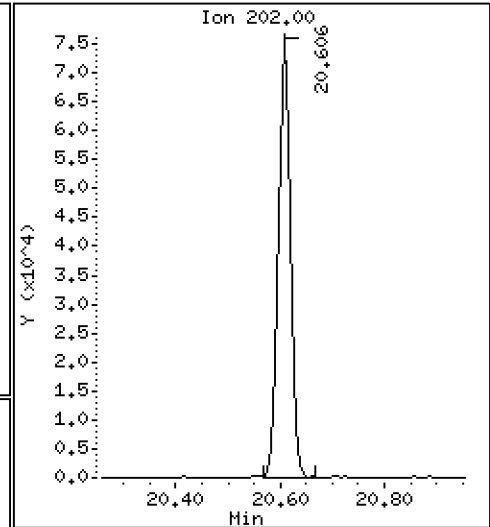
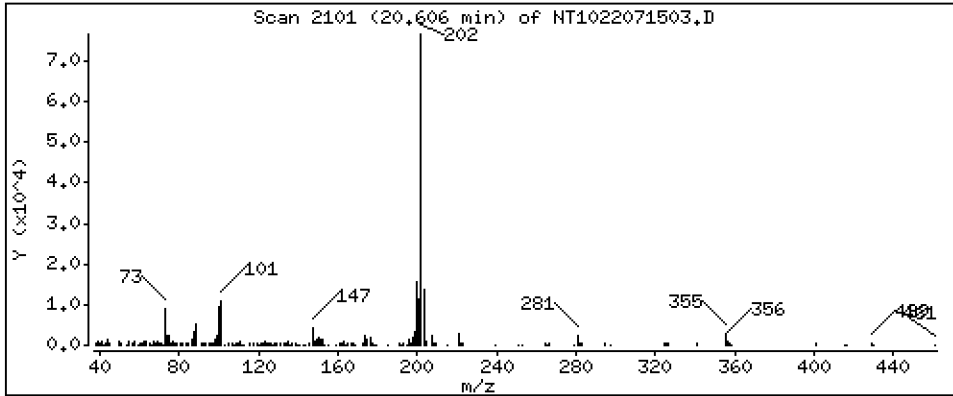
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,7206 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

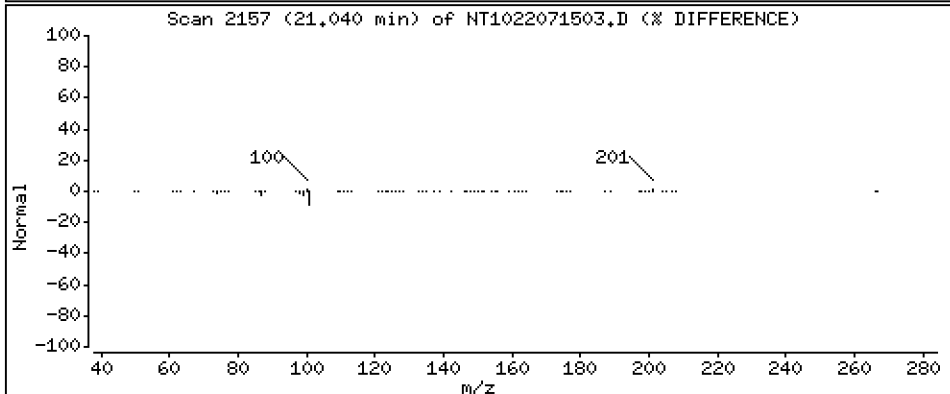
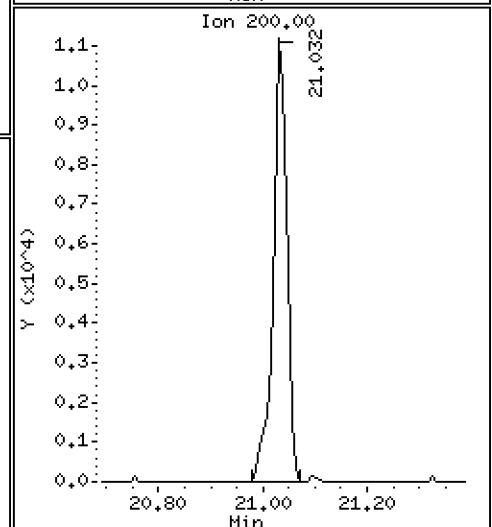
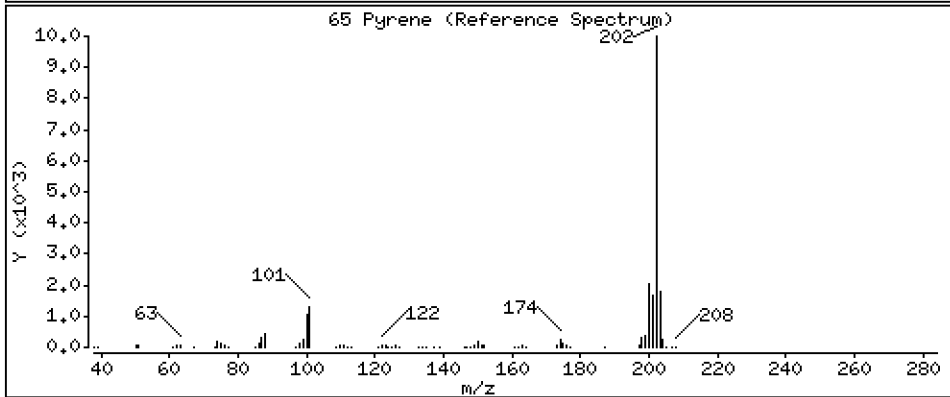
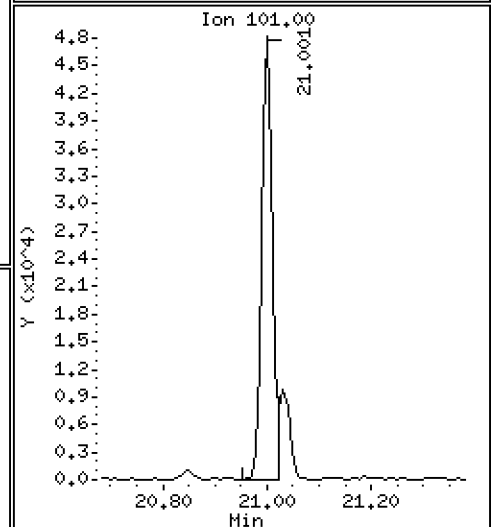
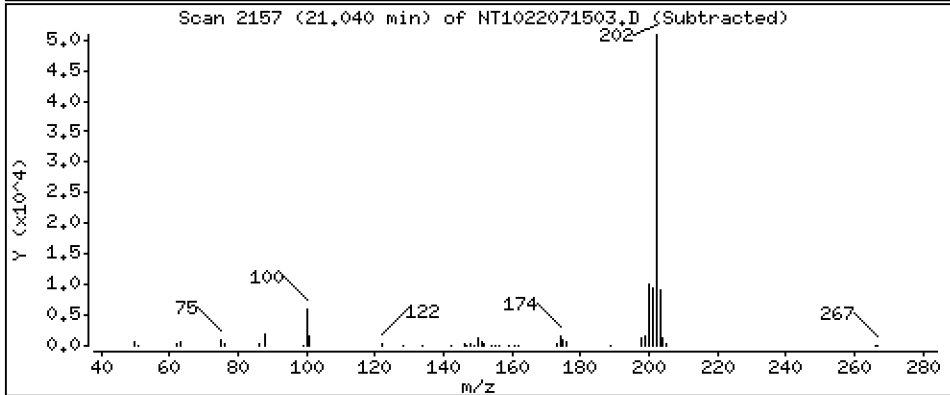
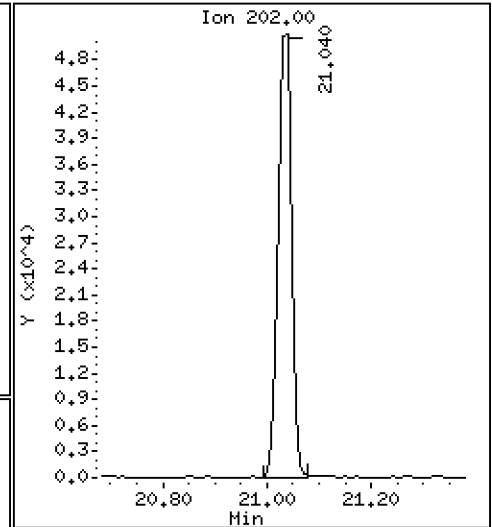
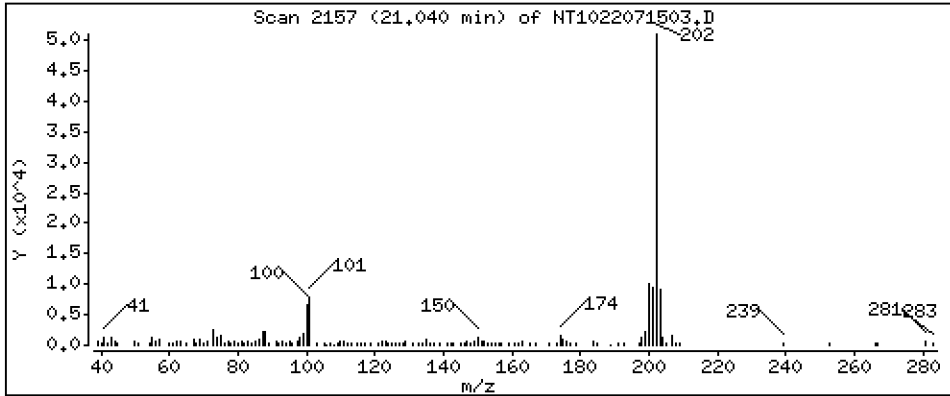
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,6174 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

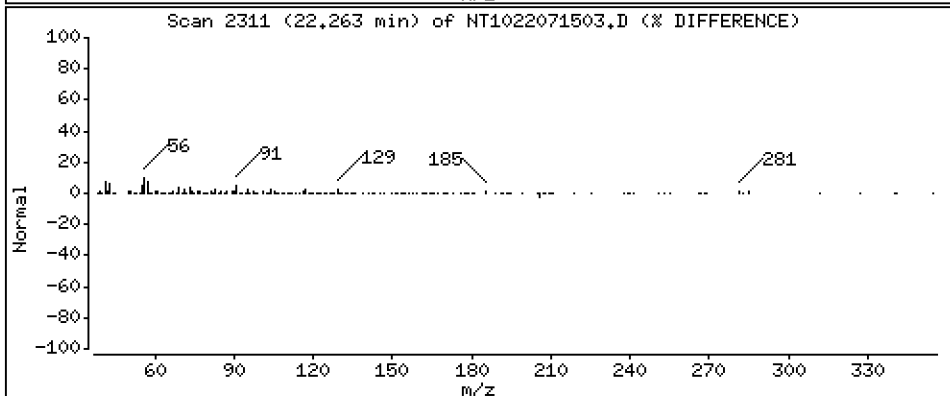
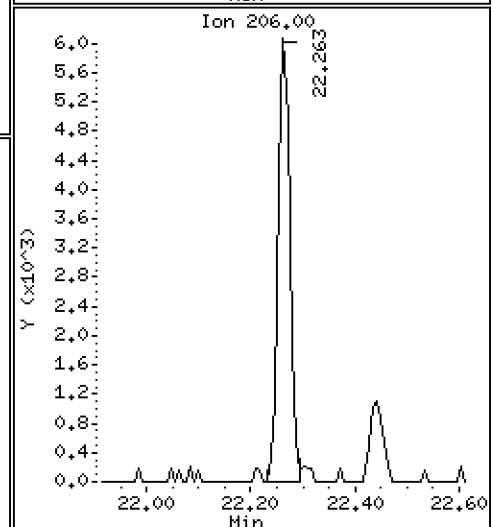
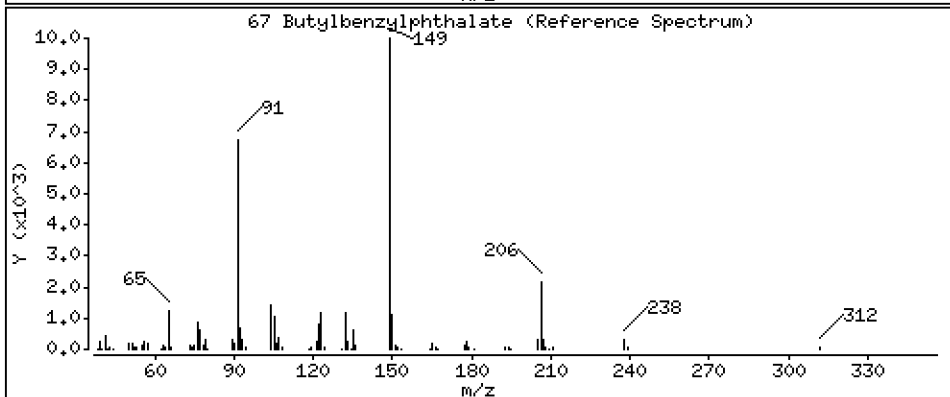
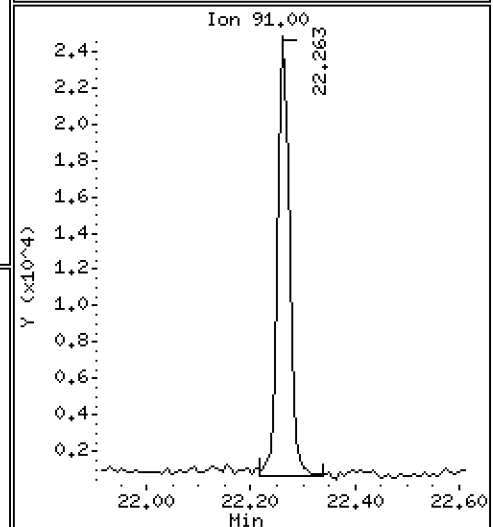
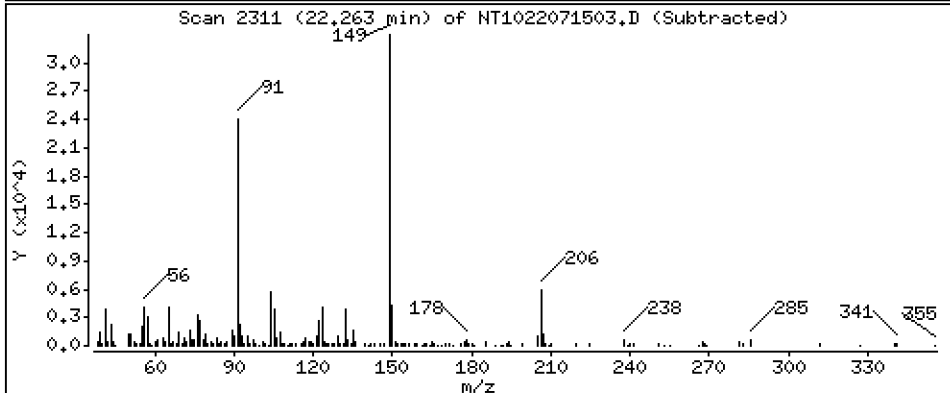
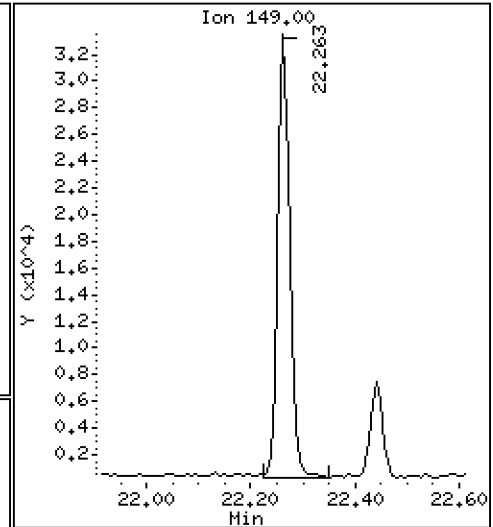
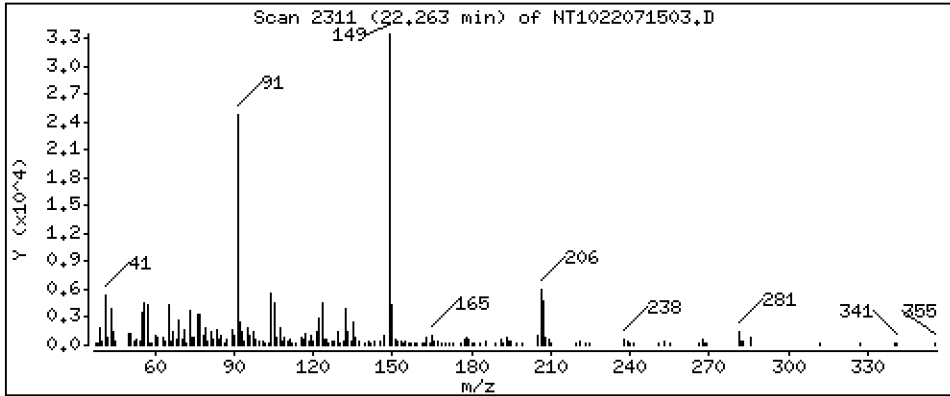
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 1.093 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

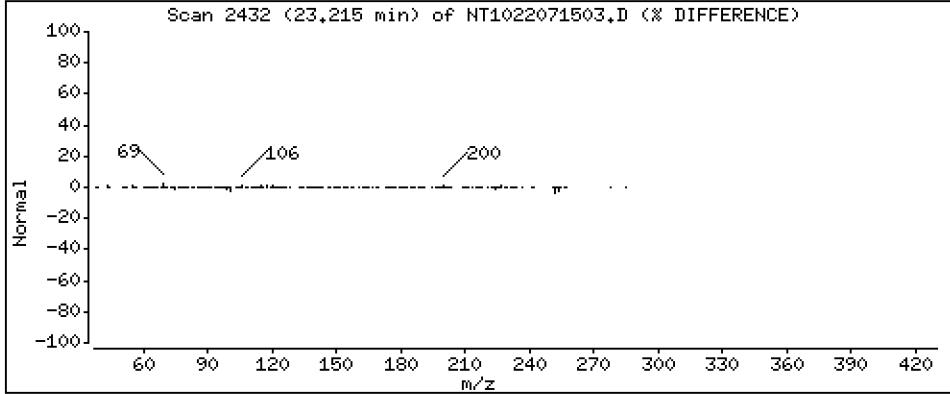
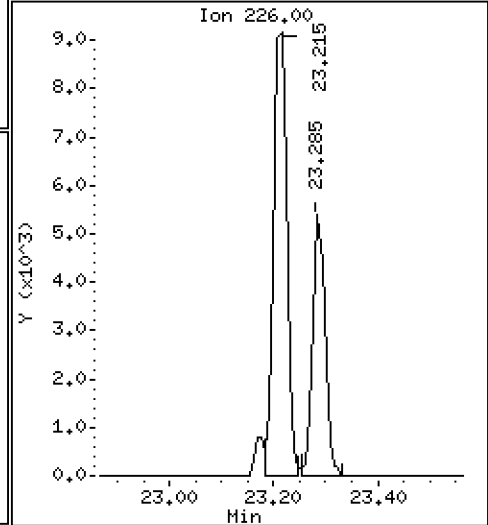
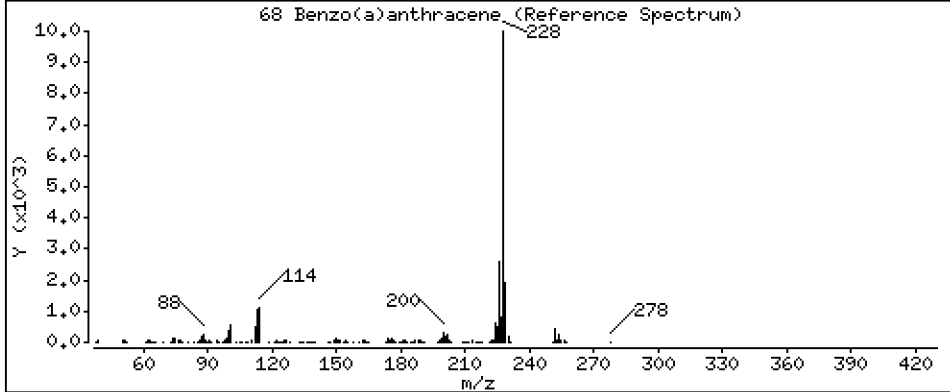
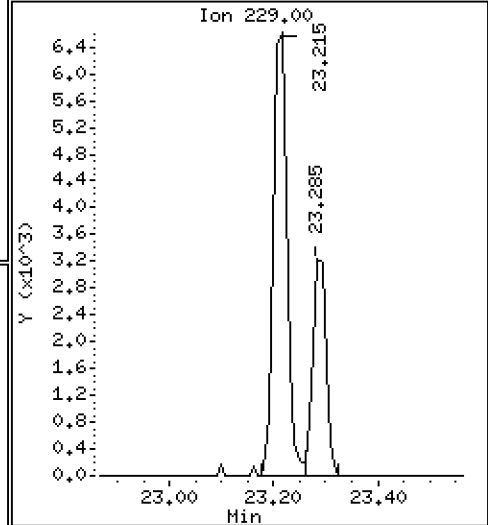
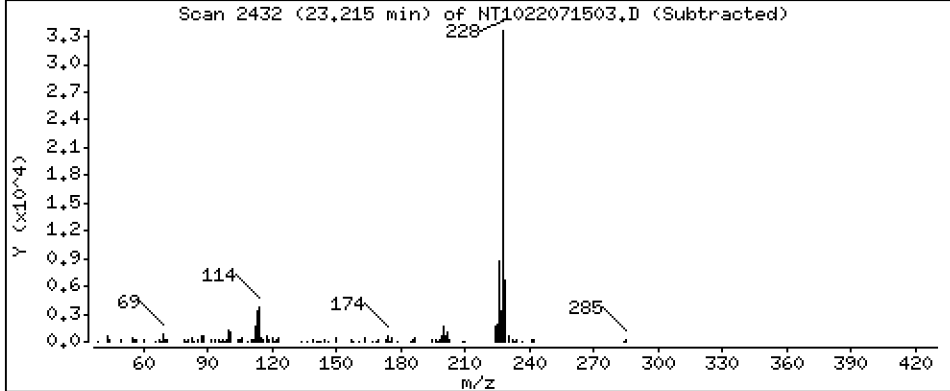
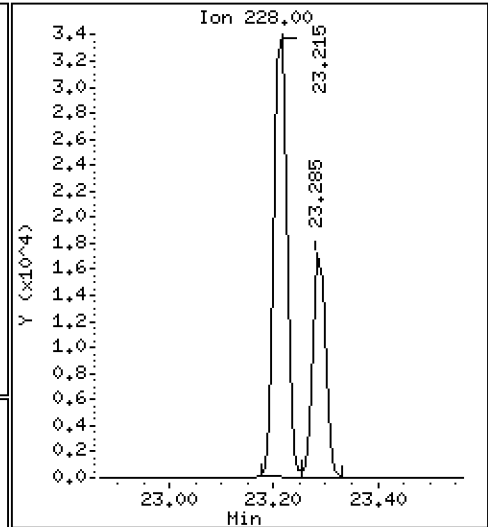
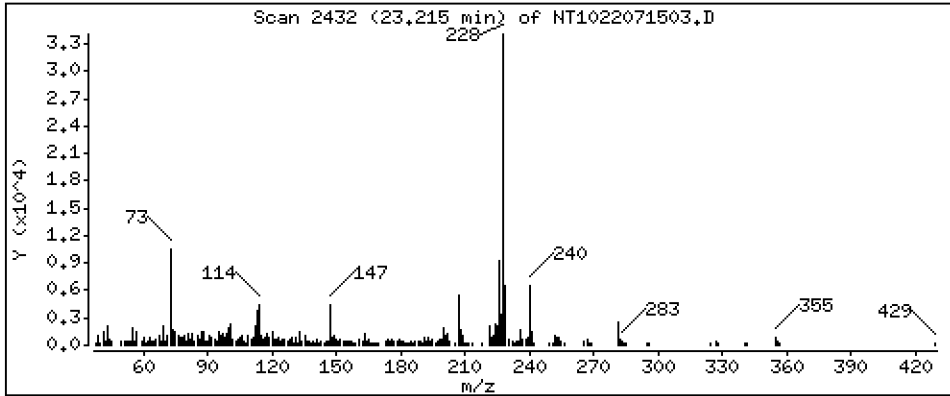
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 0.5799 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

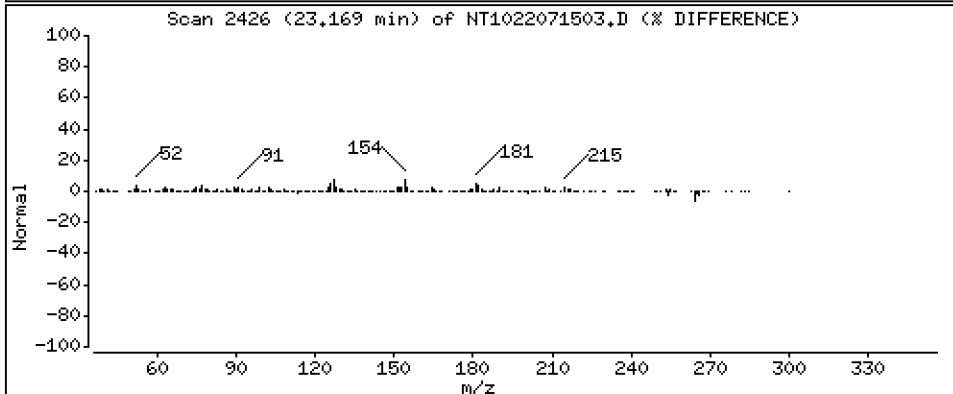
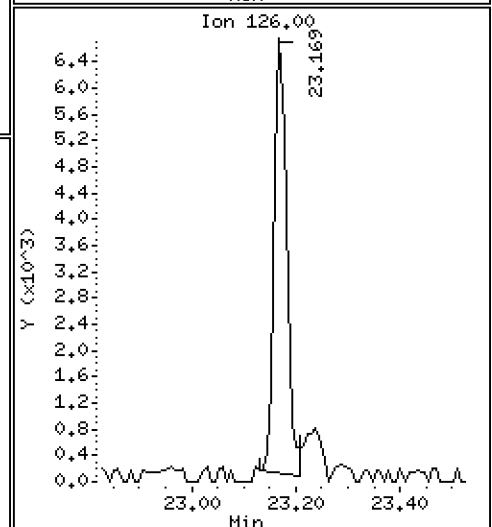
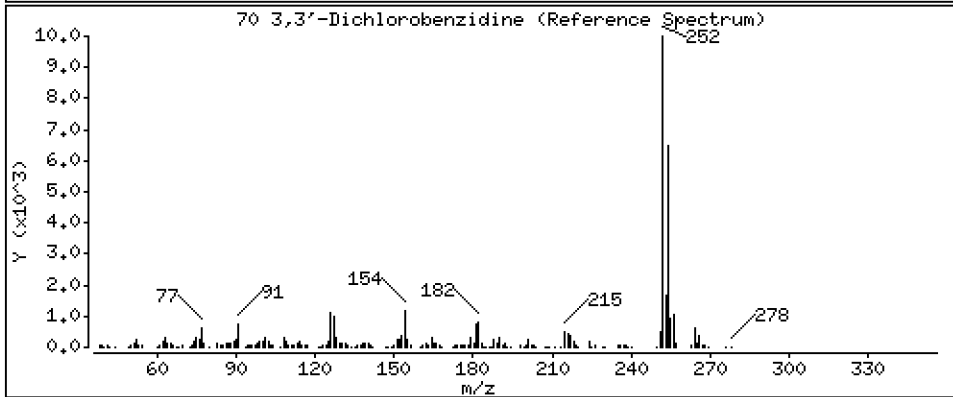
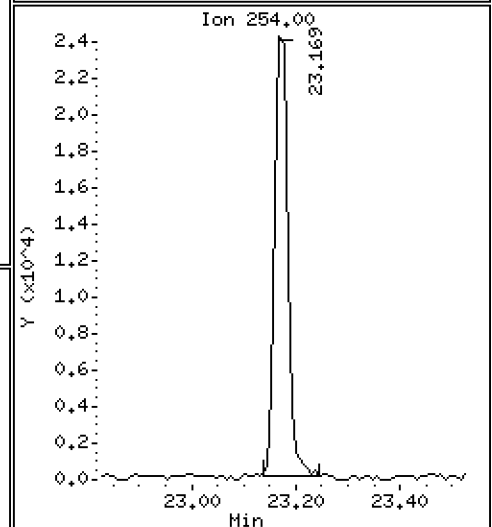
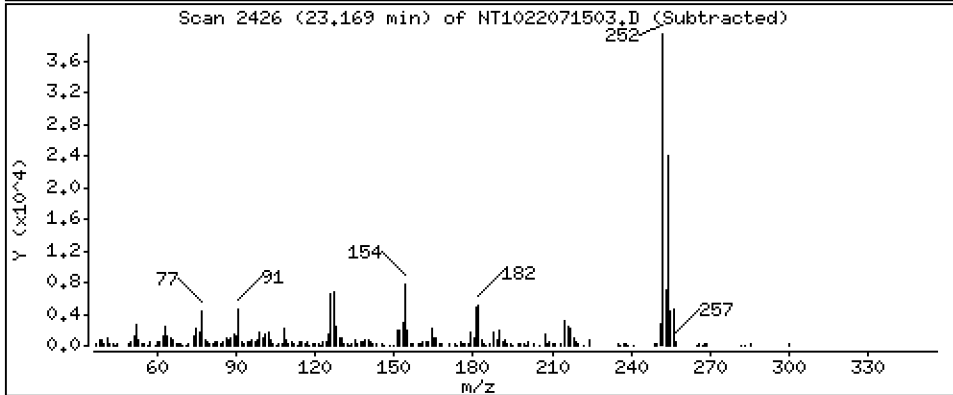
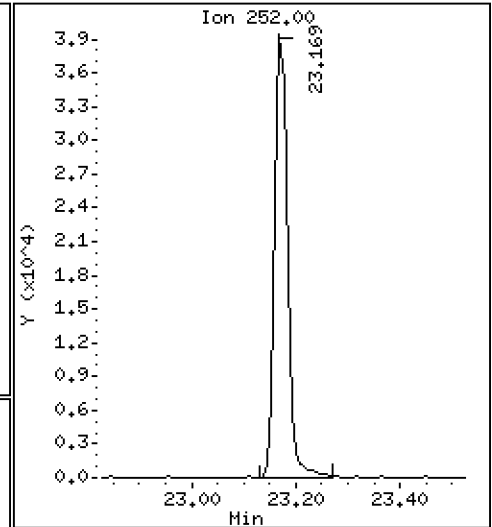
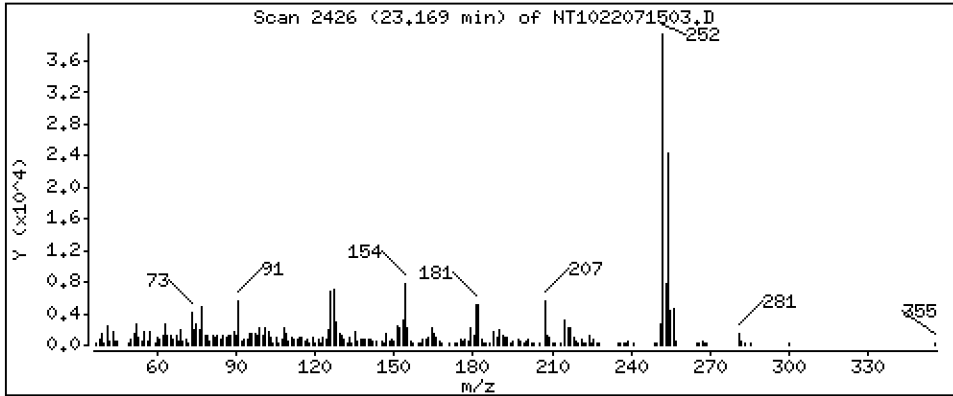
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 2,068 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

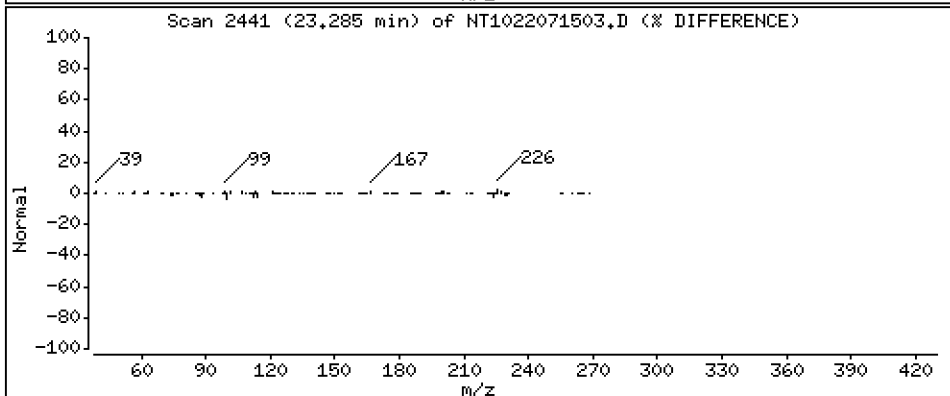
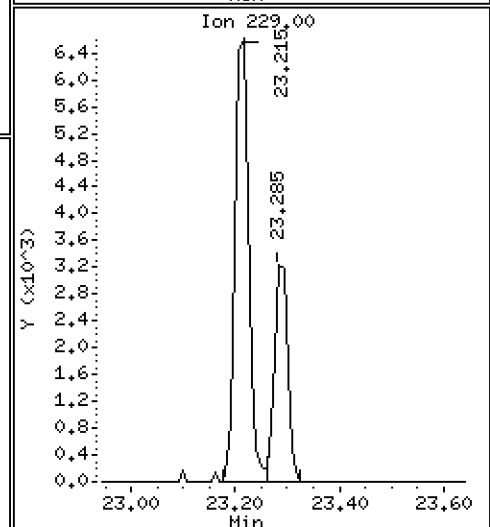
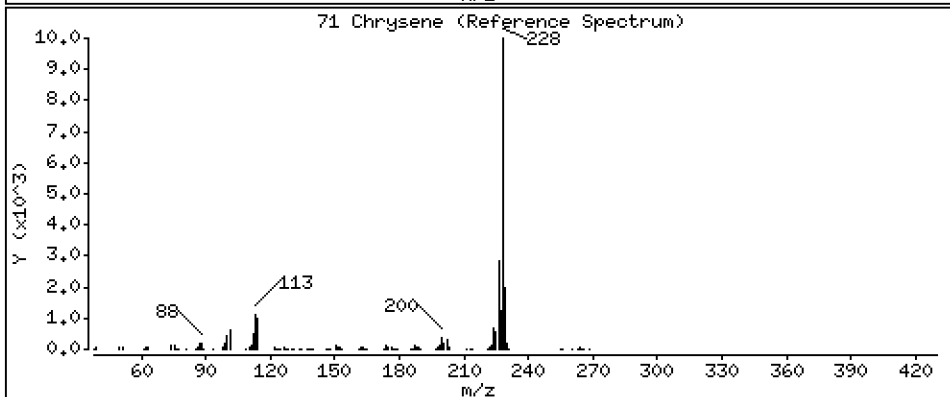
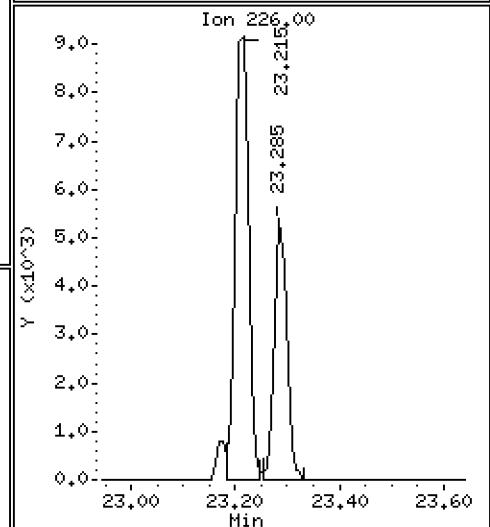
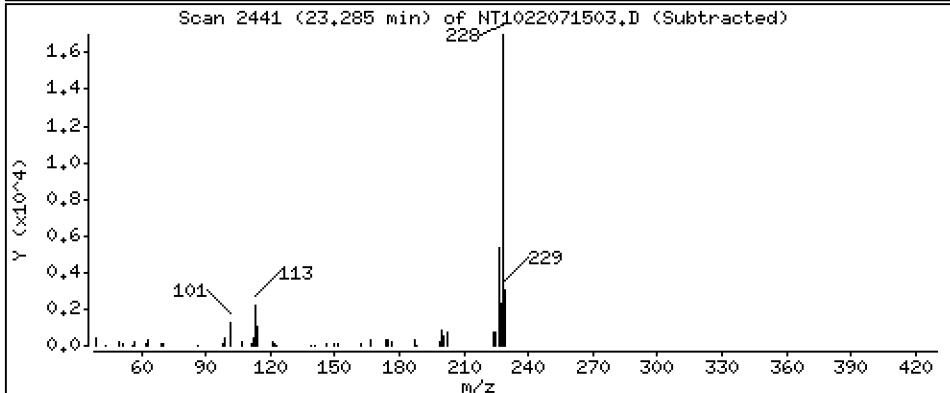
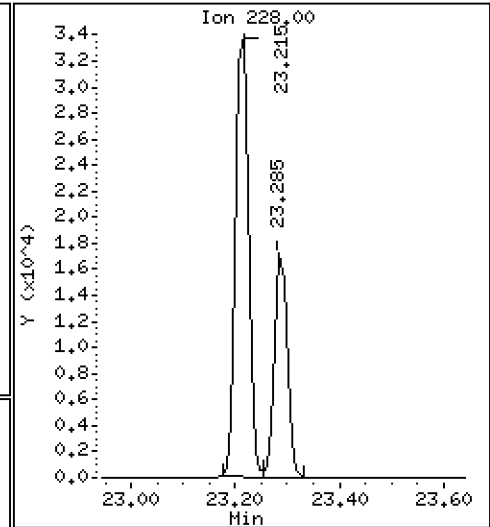
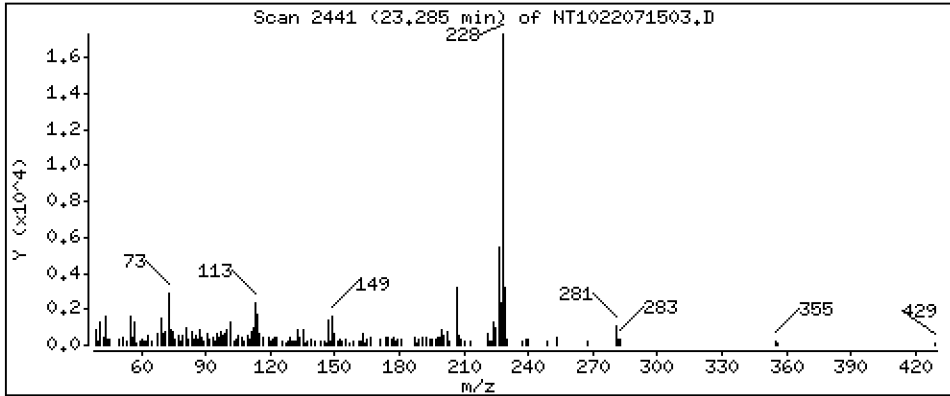
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,4385 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

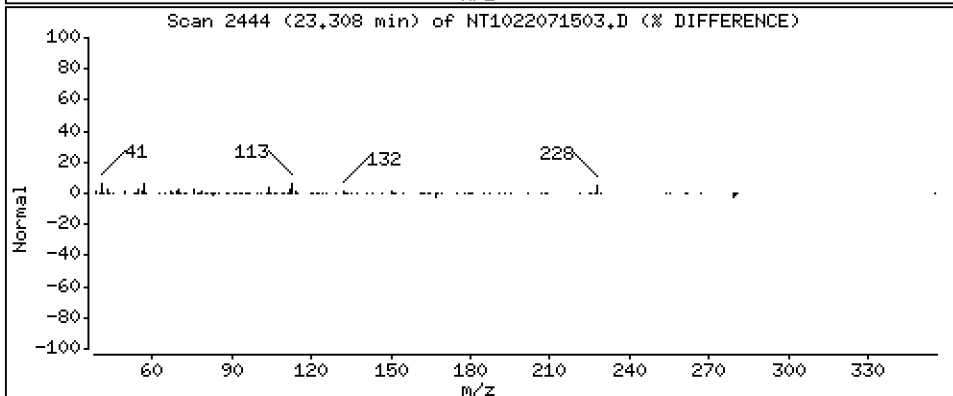
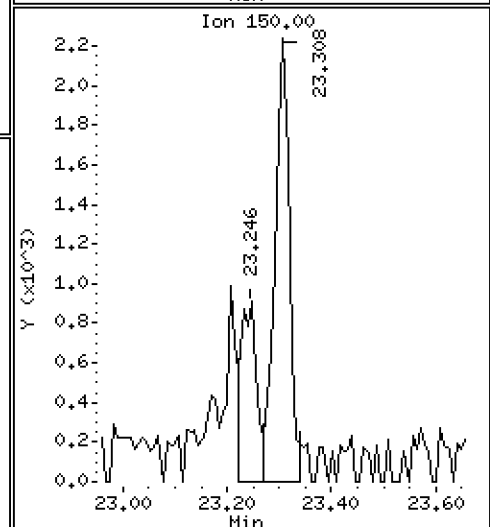
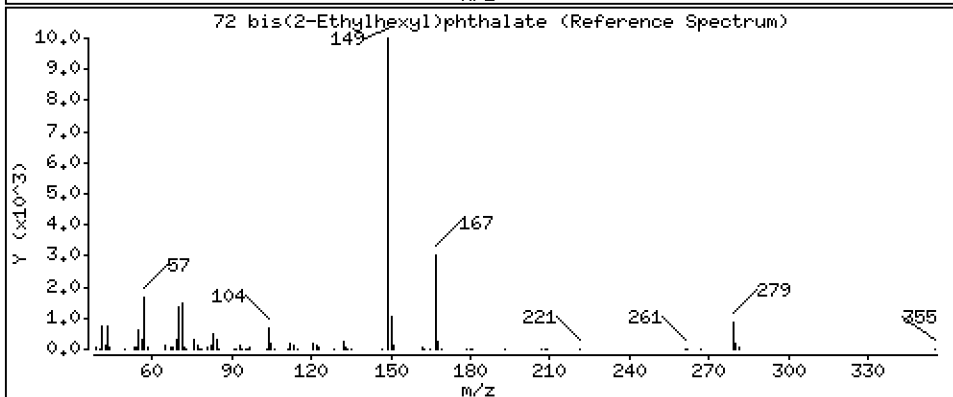
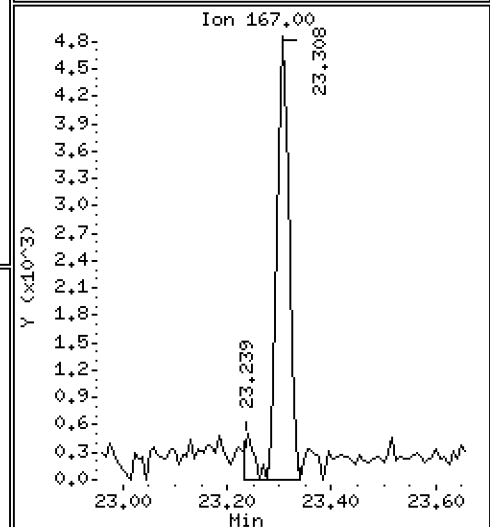
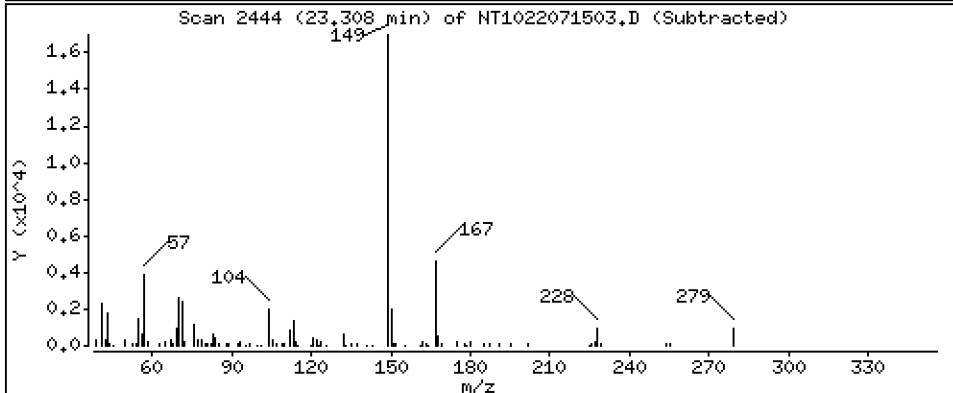
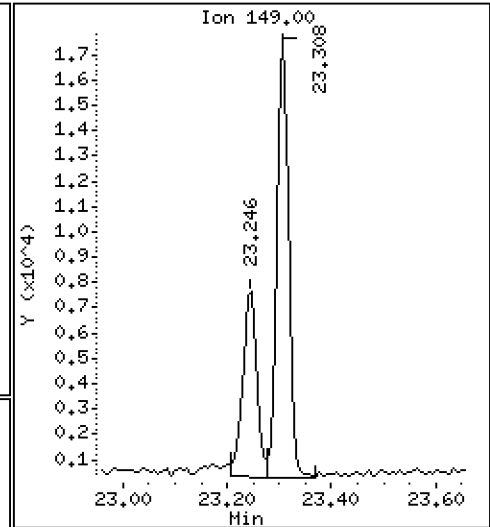
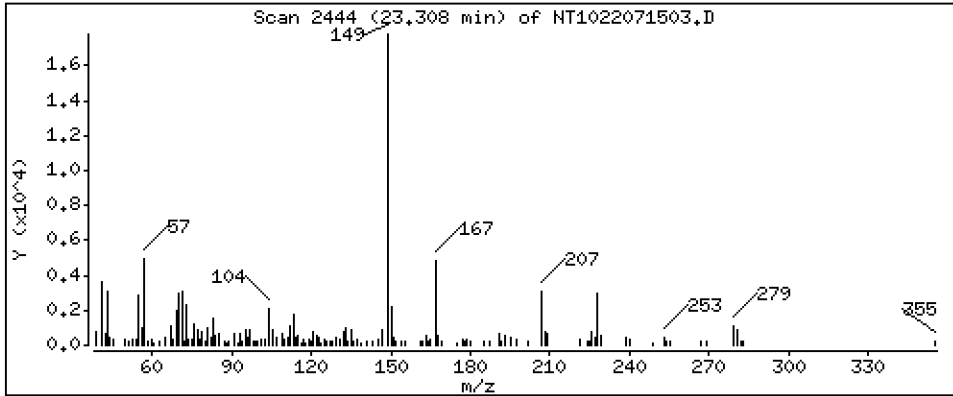
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,8774 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

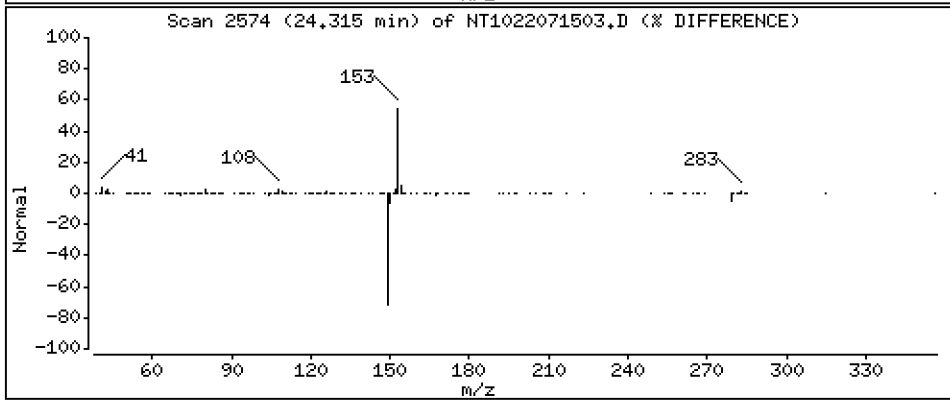
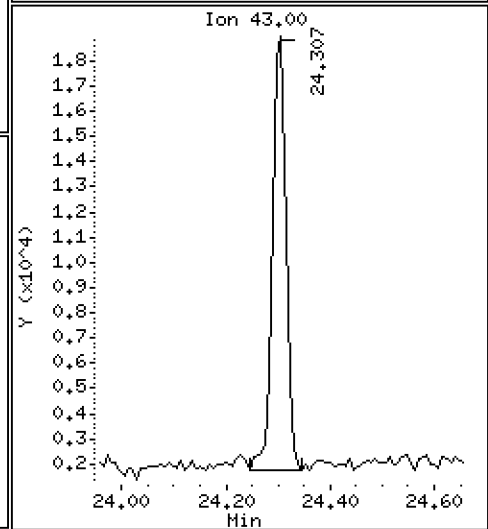
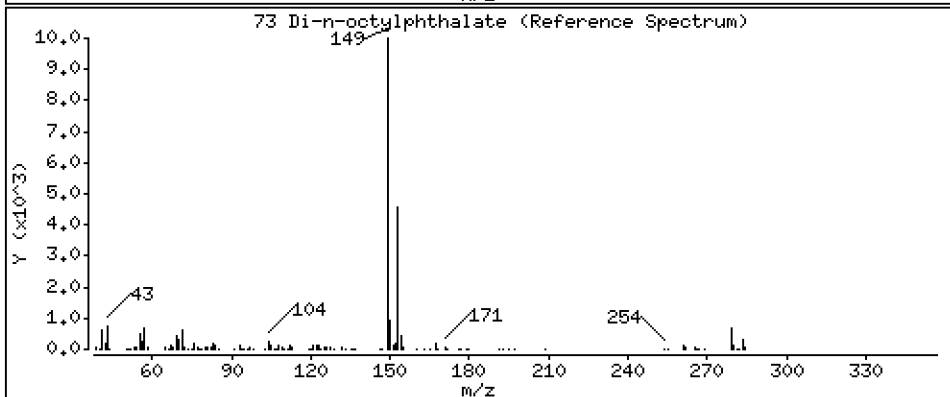
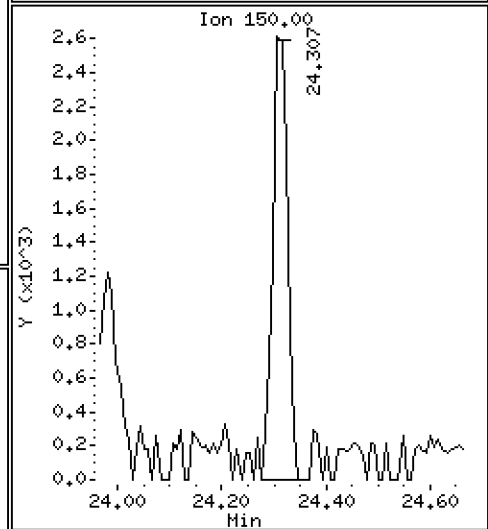
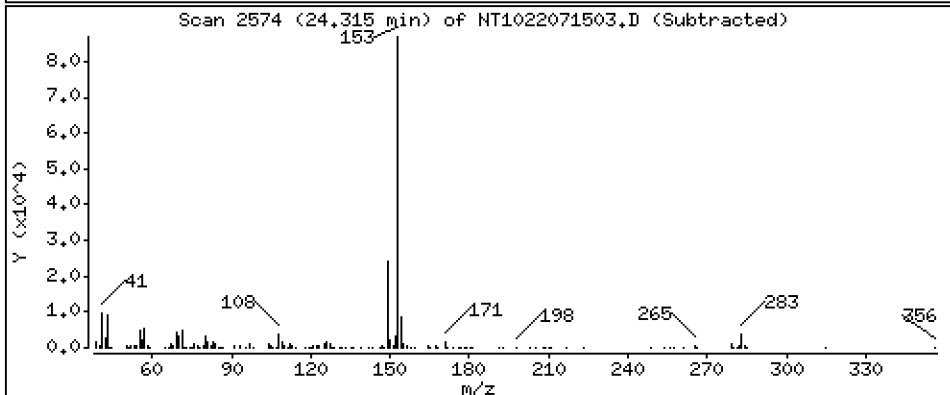
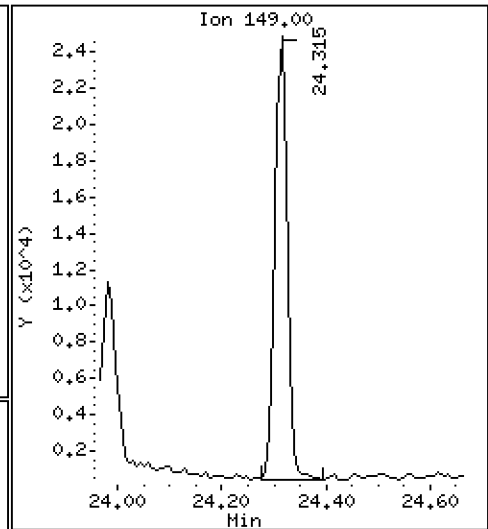
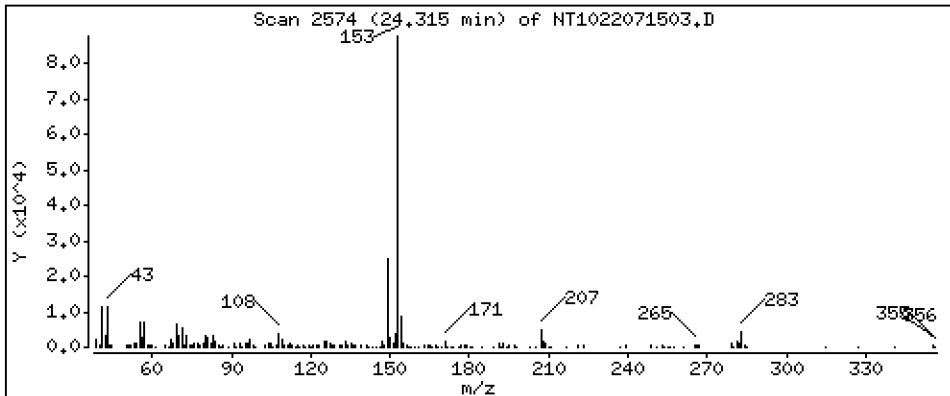
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,6422 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

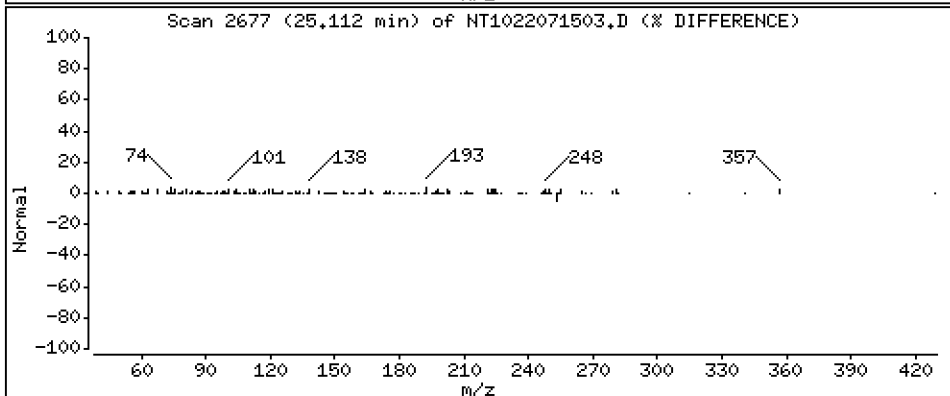
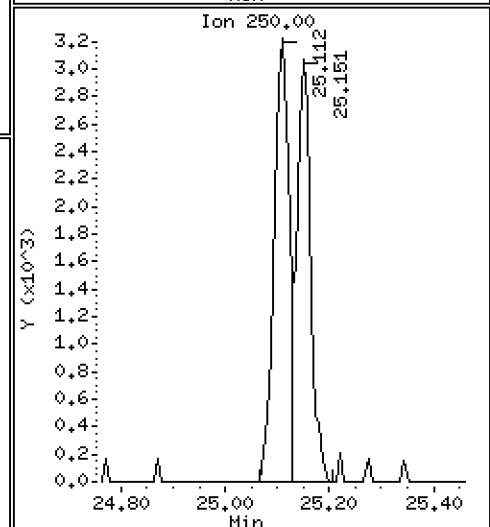
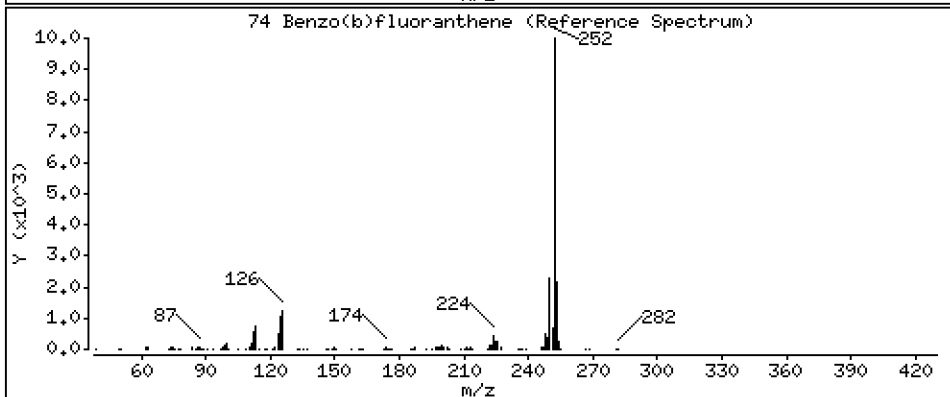
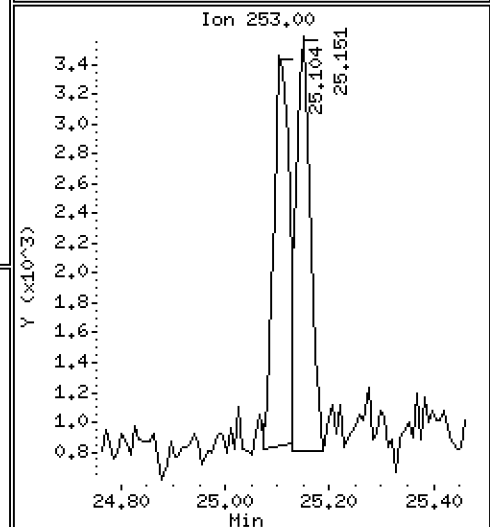
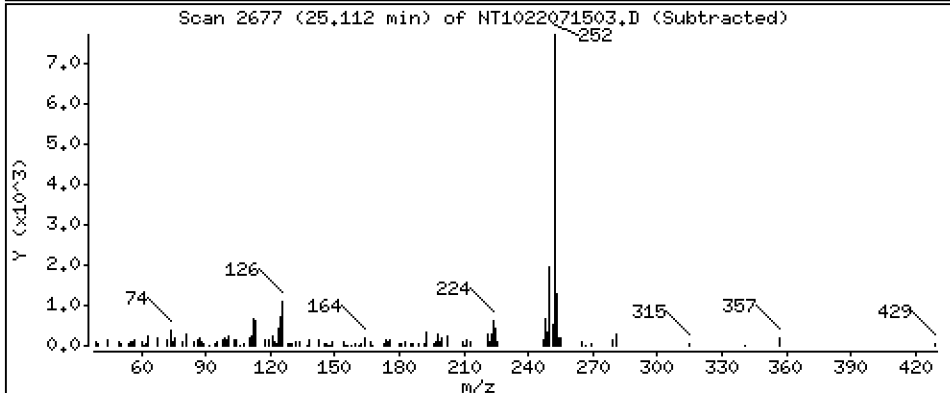
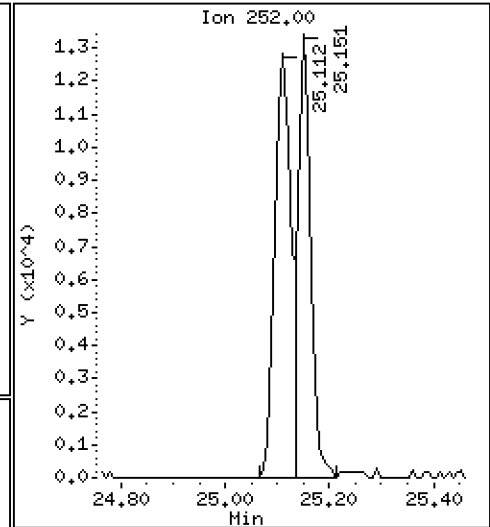
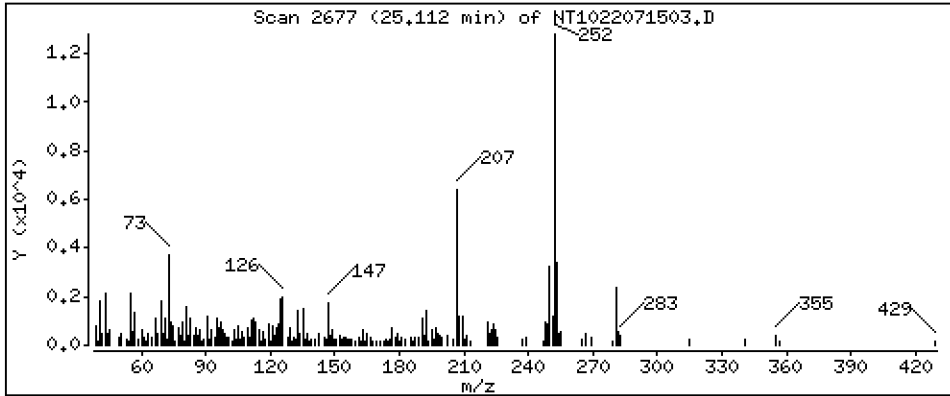
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5337 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

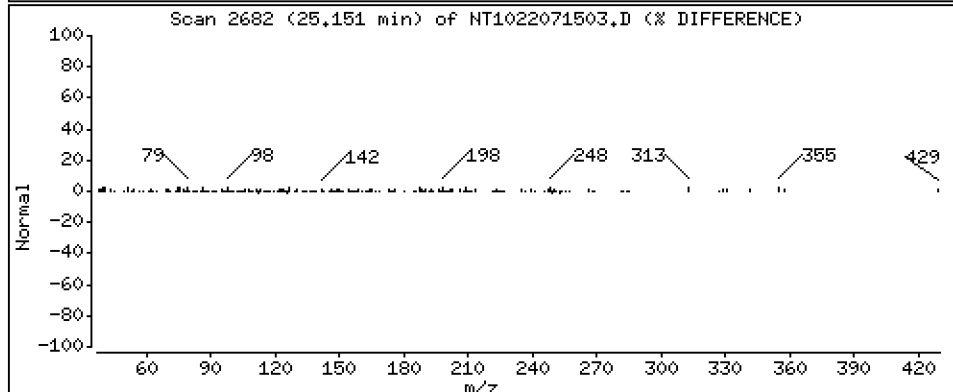
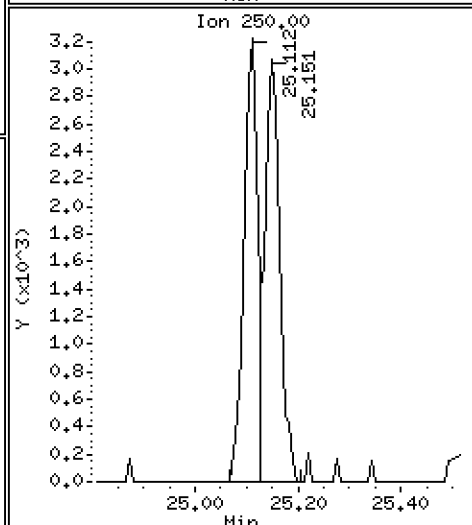
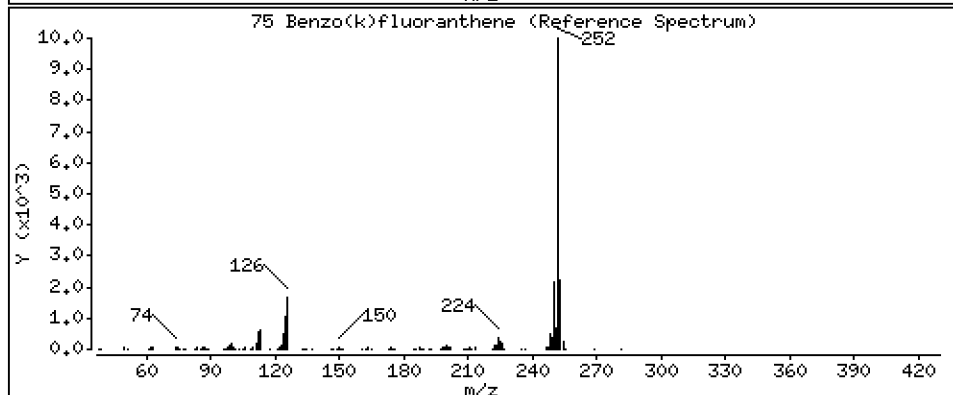
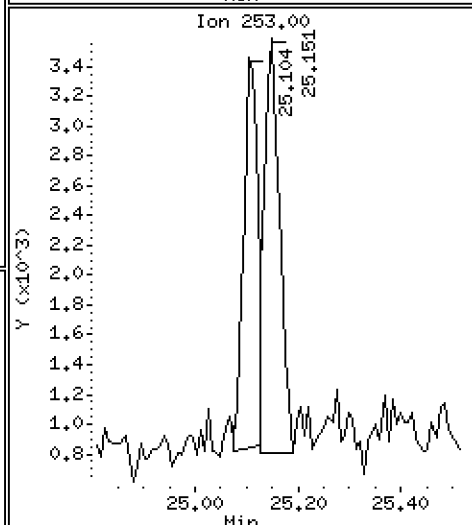
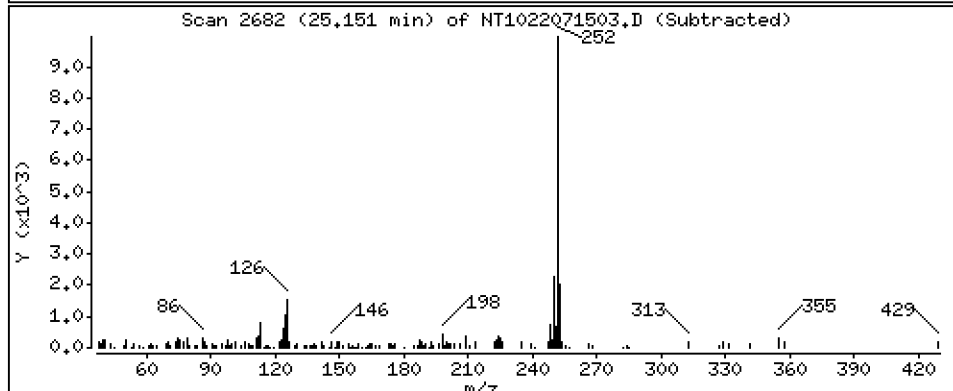
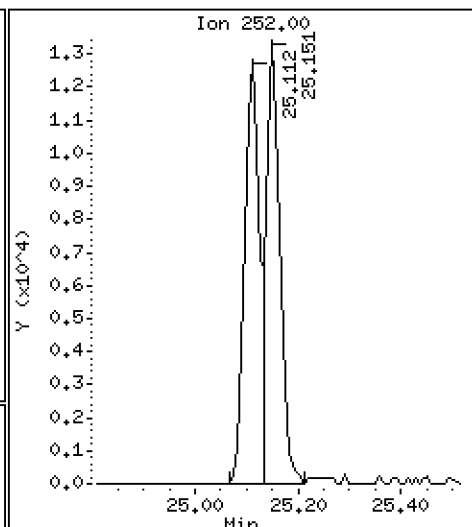
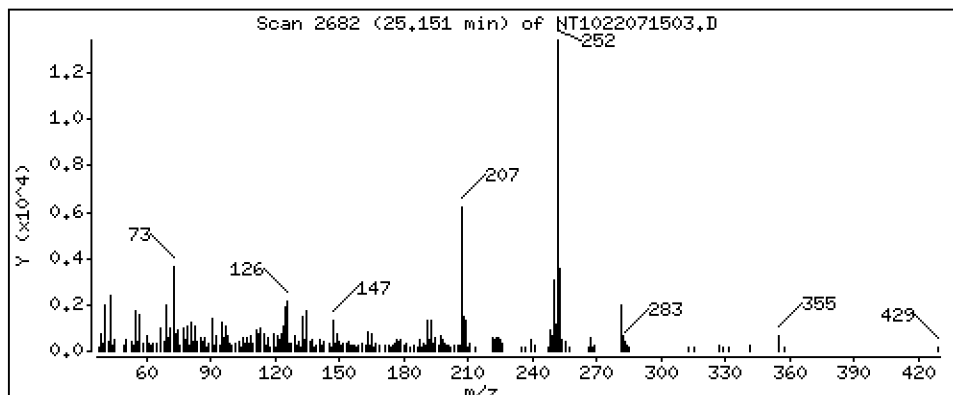
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,4808 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

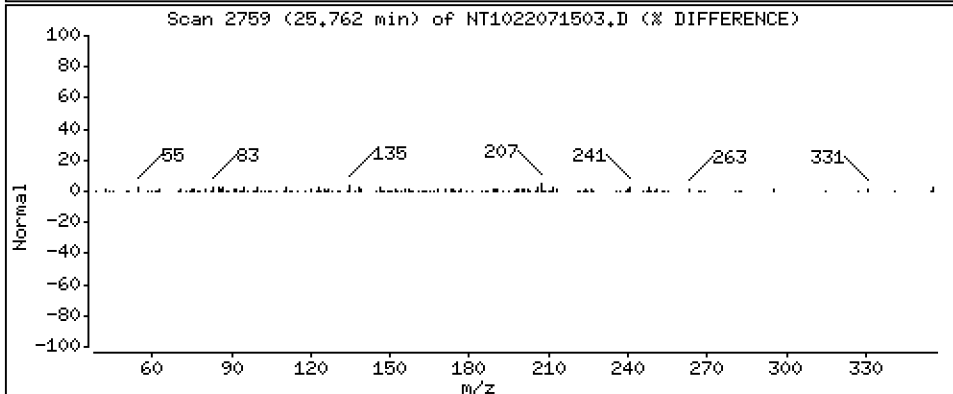
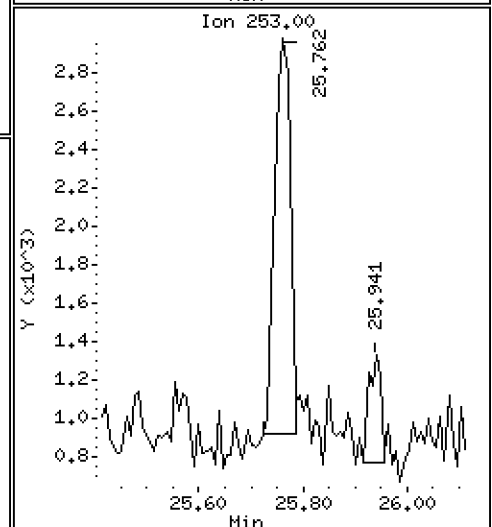
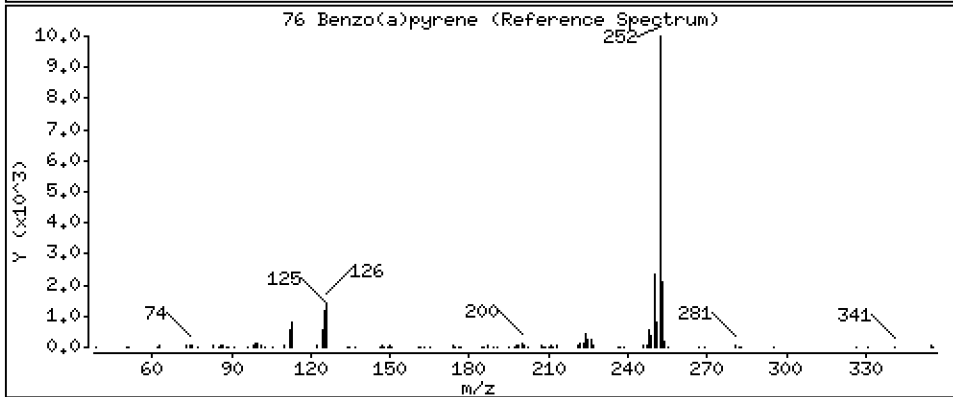
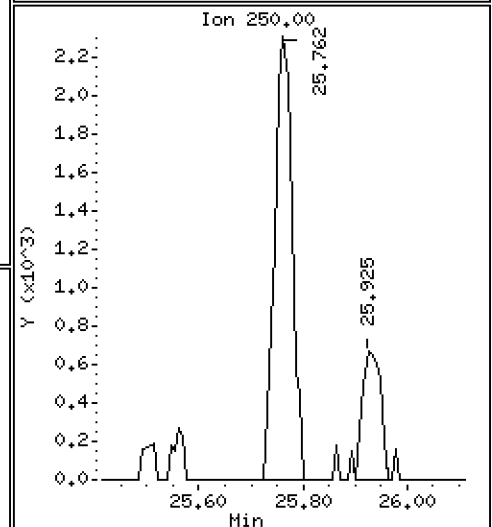
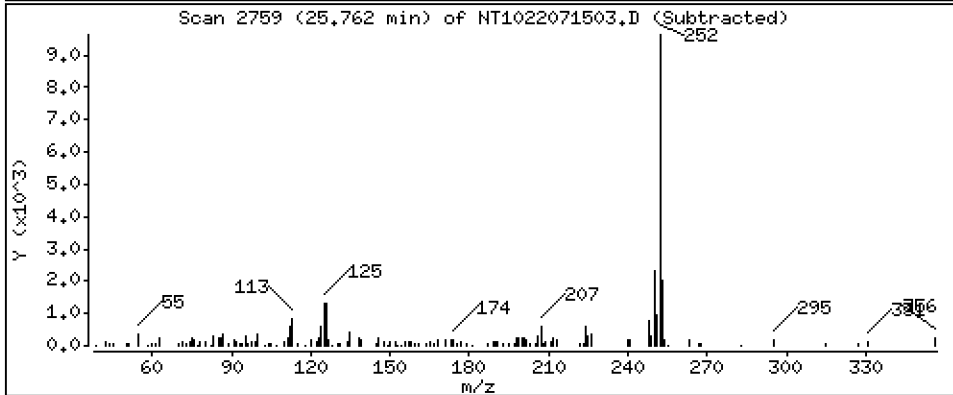
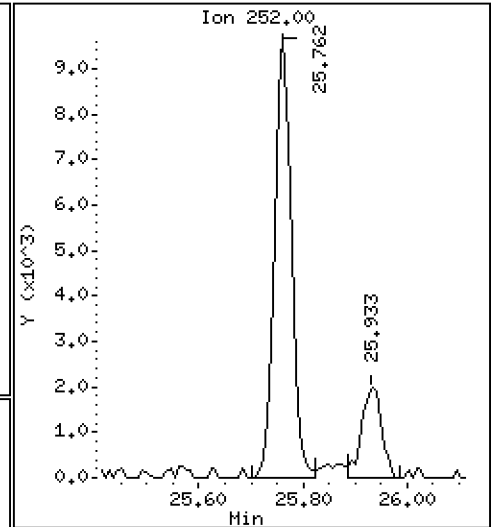
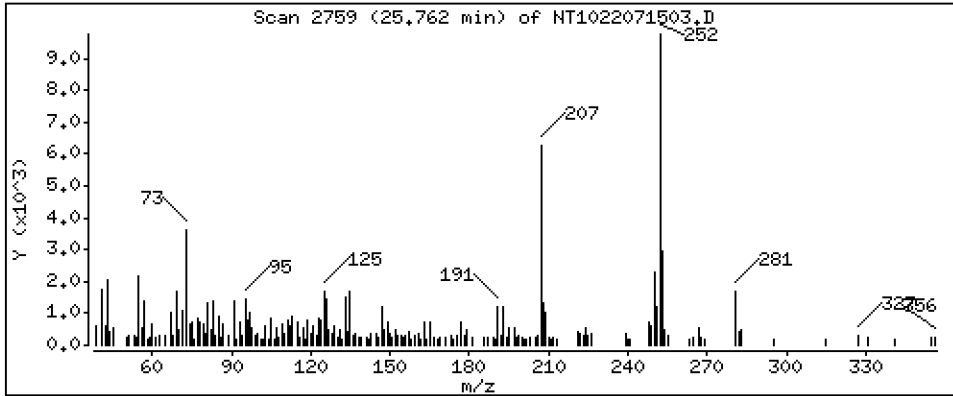
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,4898 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

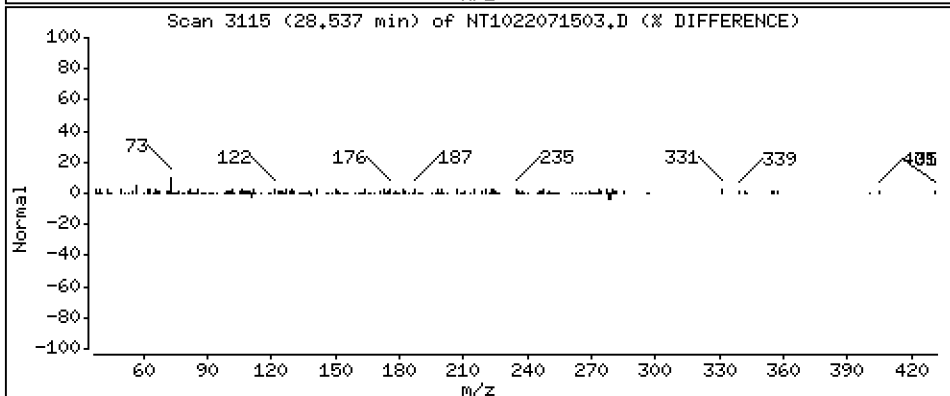
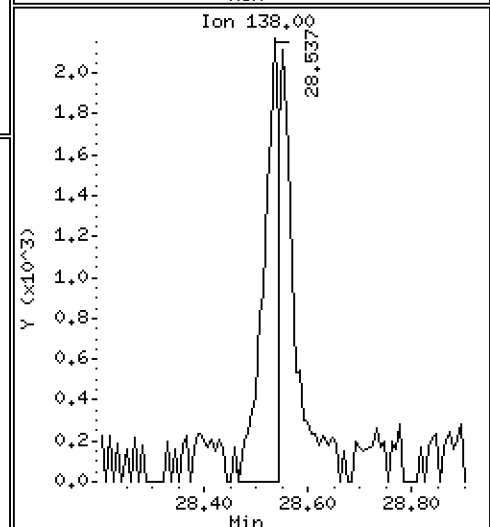
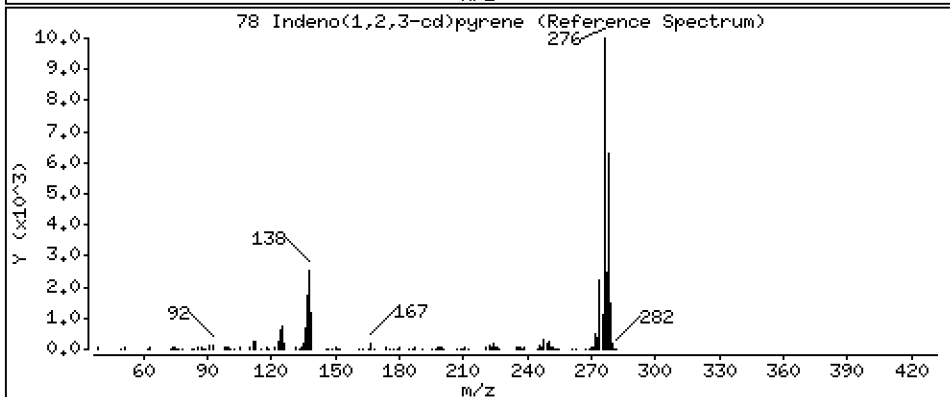
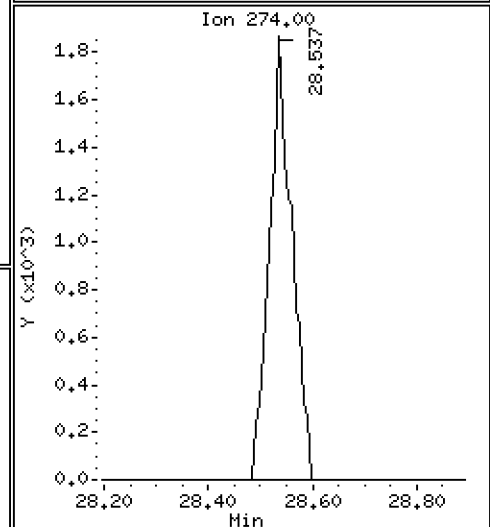
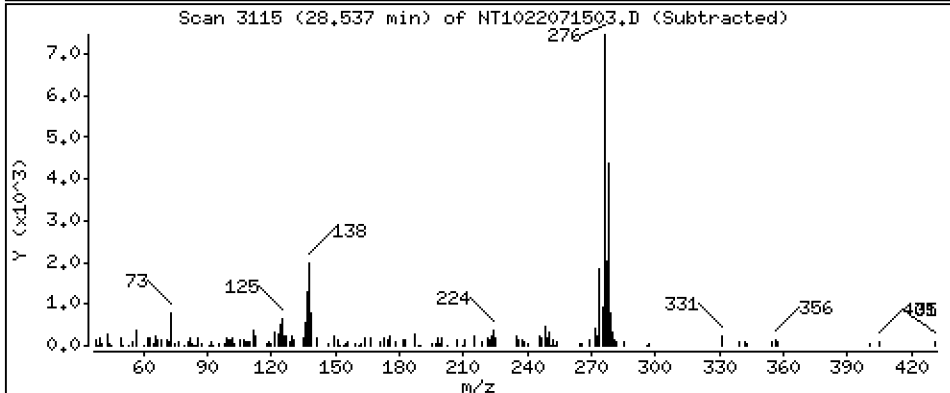
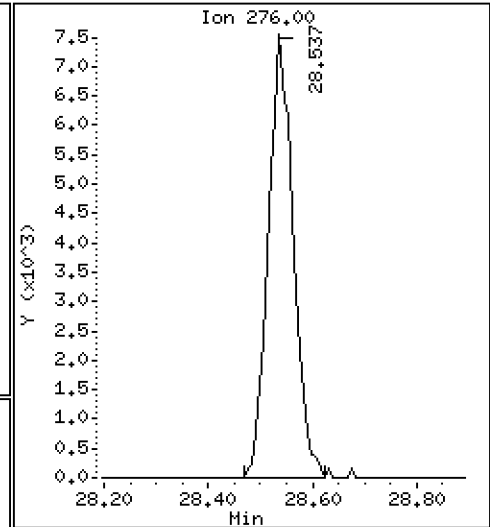
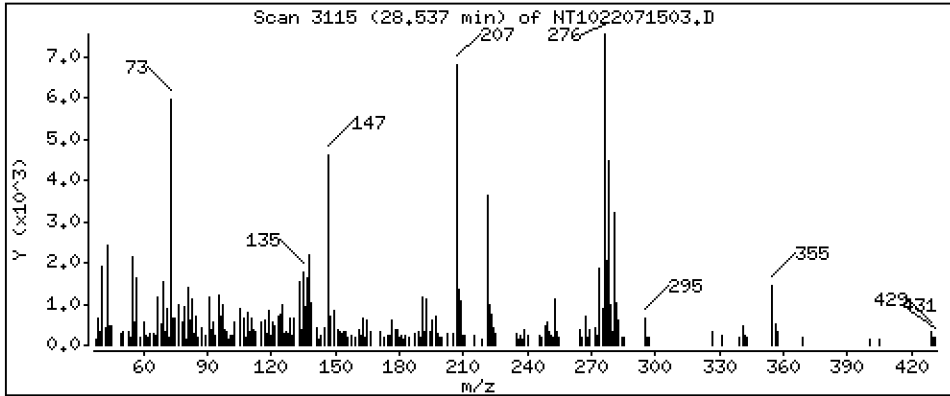
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,5421 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

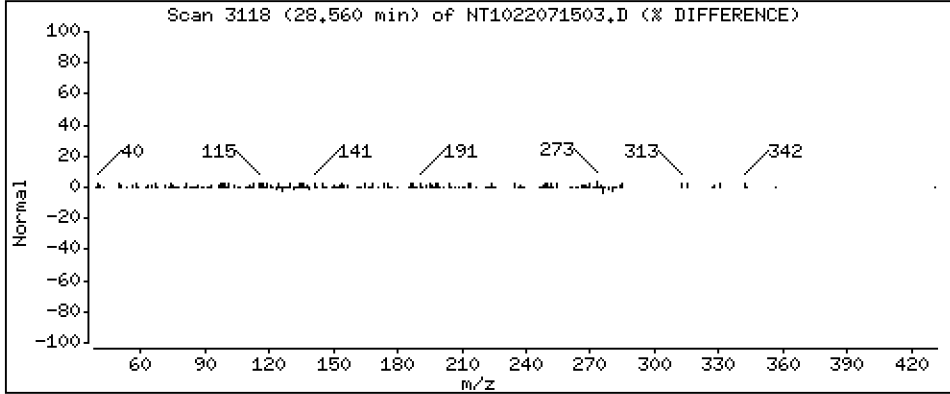
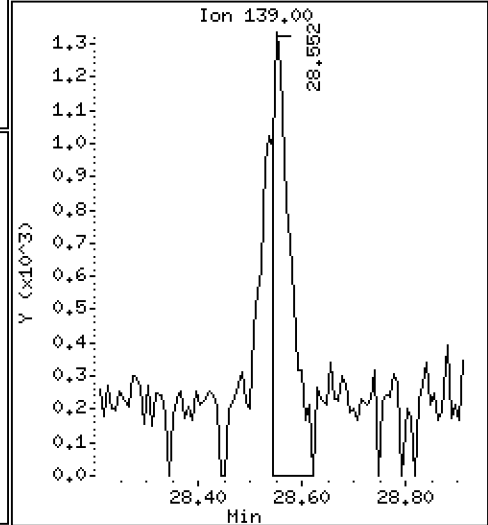
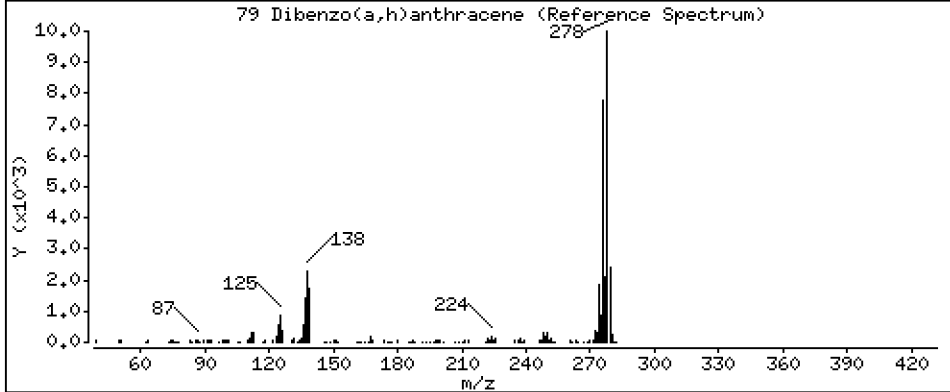
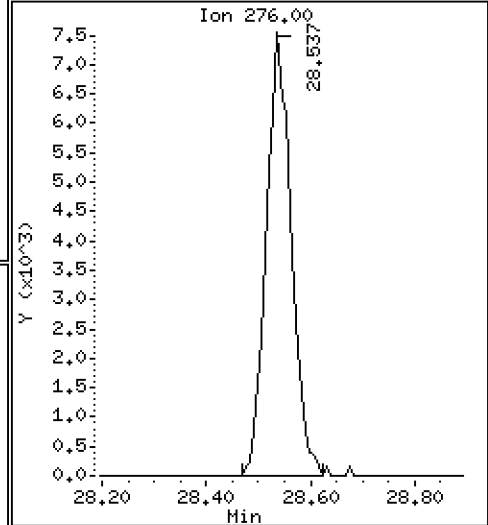
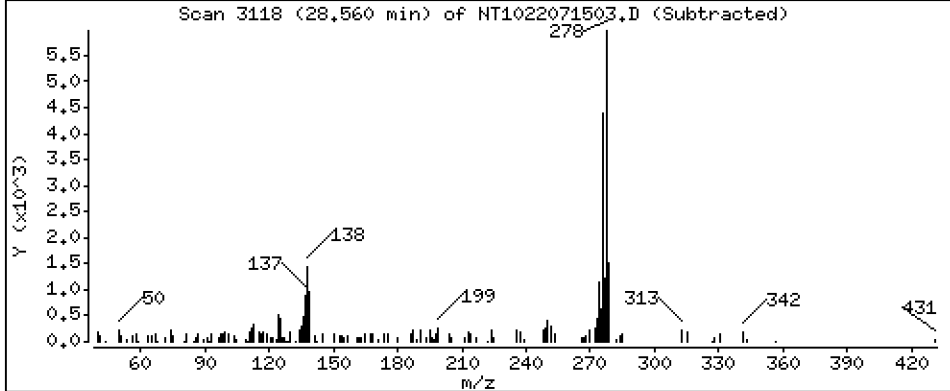
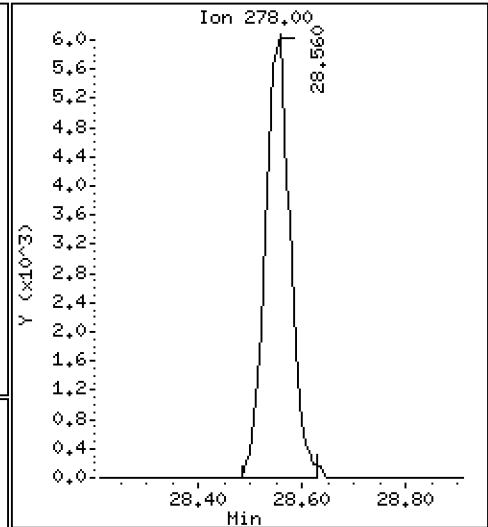
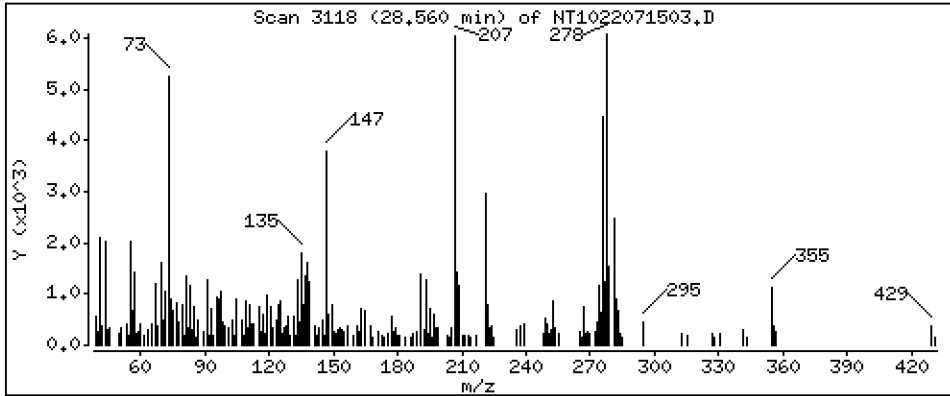
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,5745 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

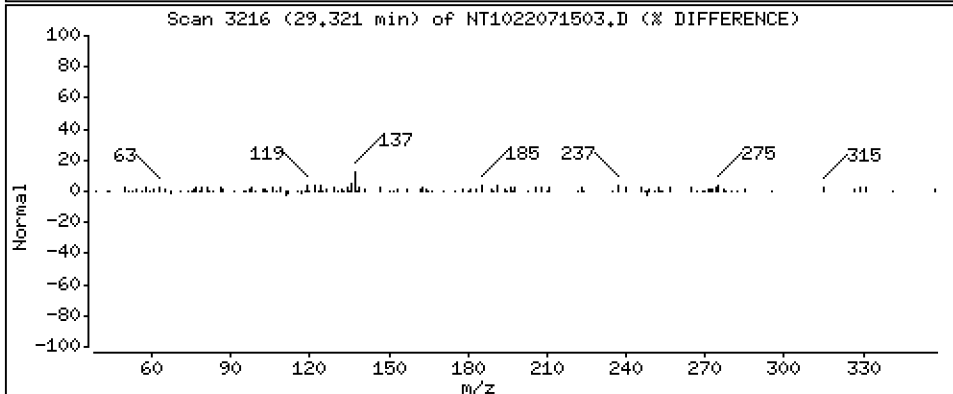
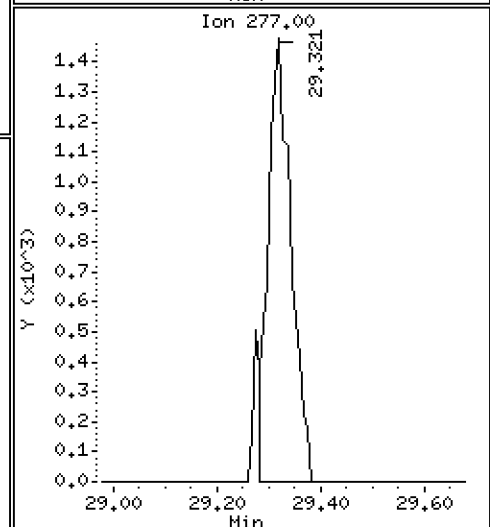
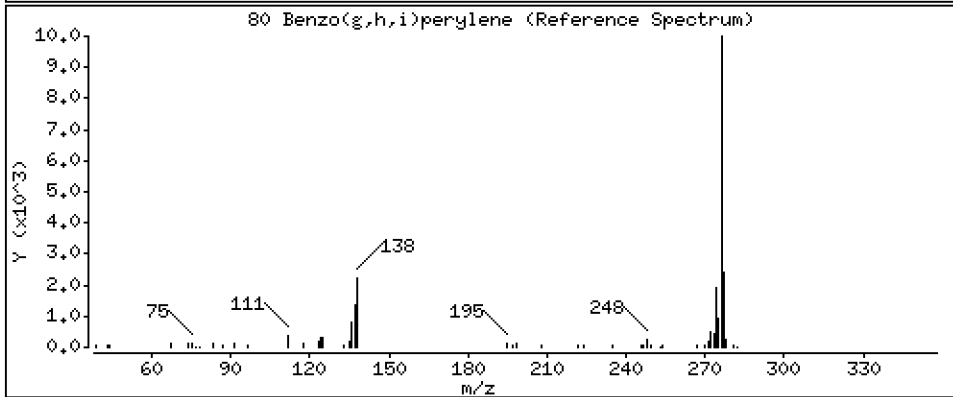
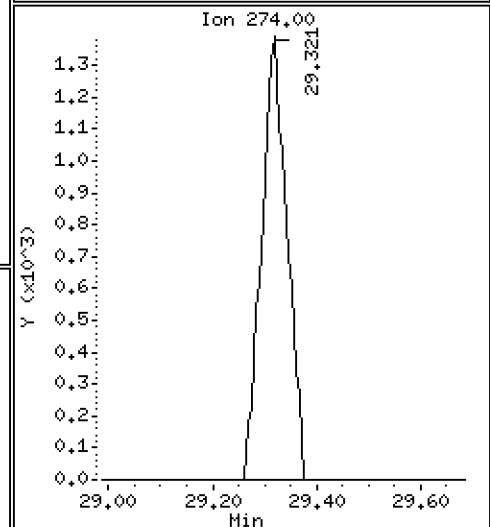
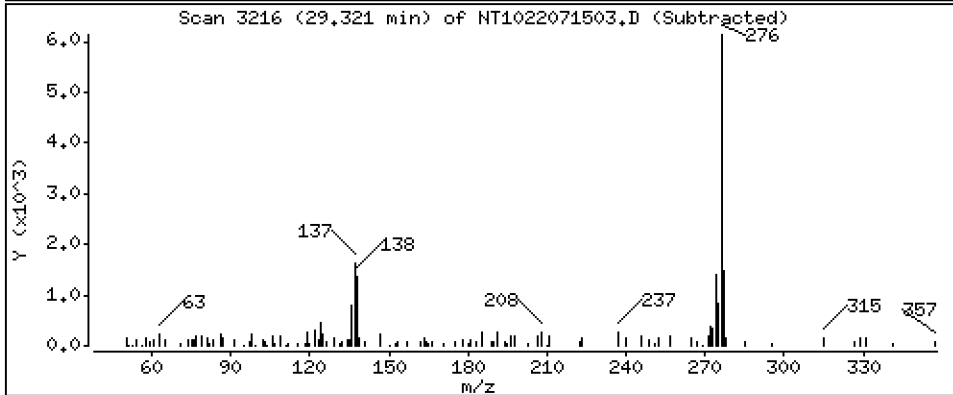
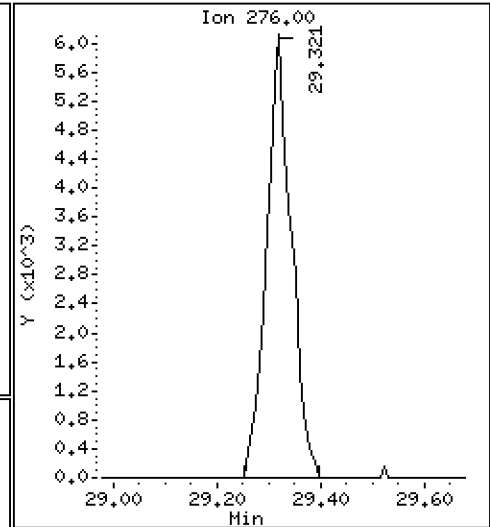
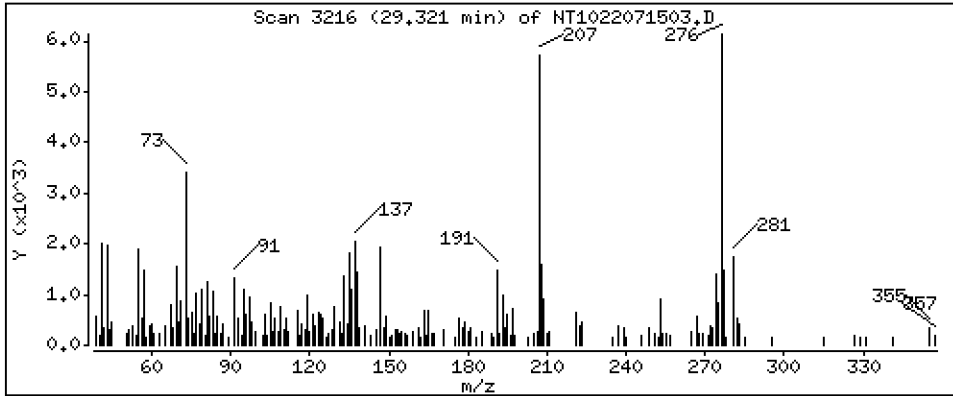
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,5508 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

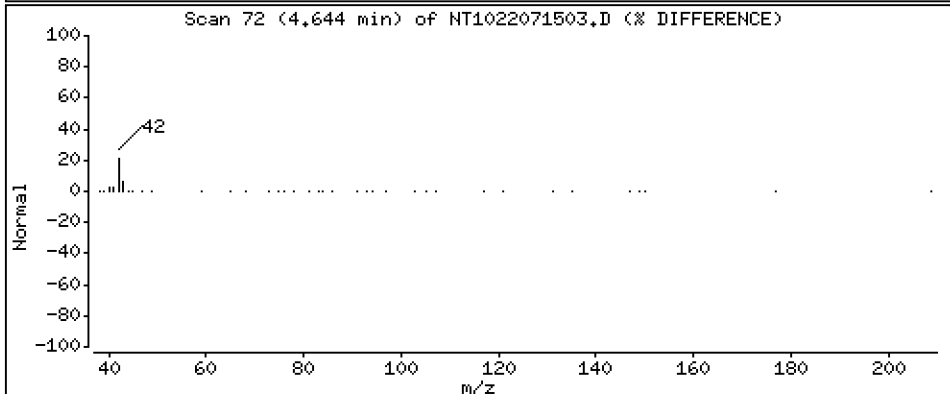
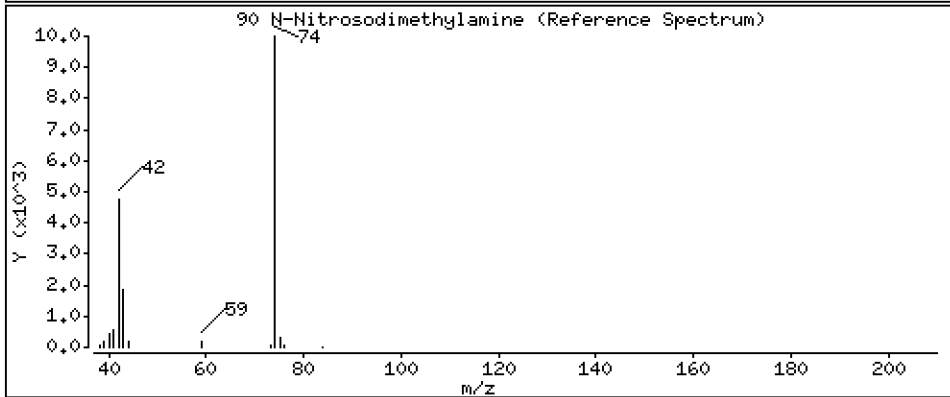
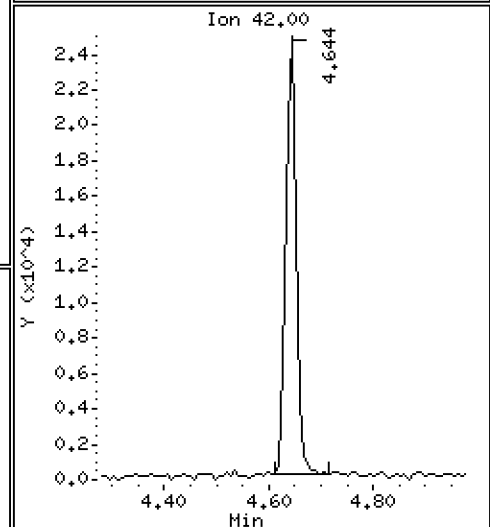
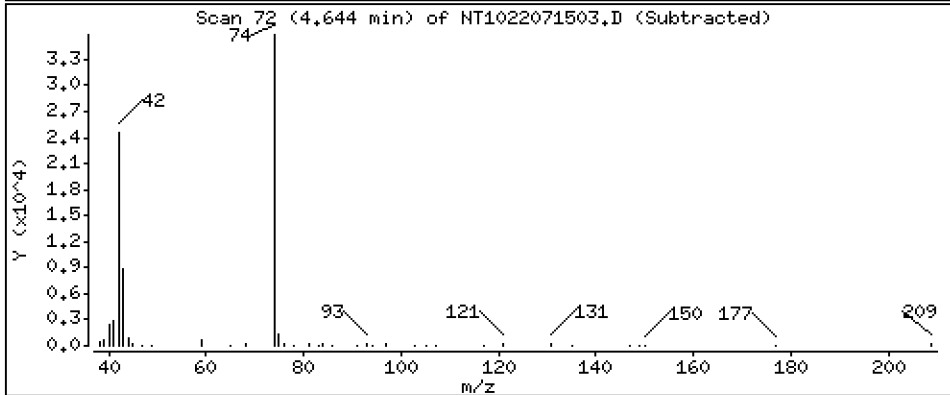
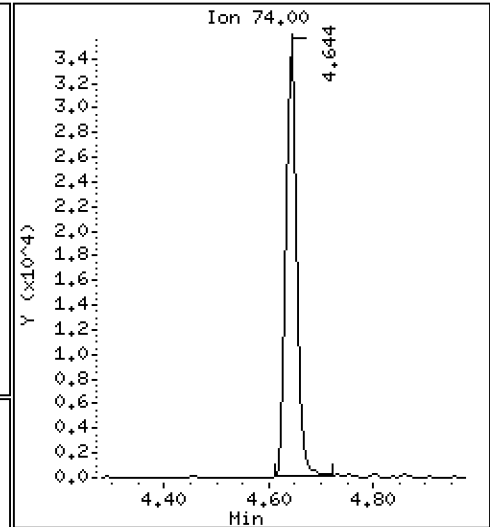
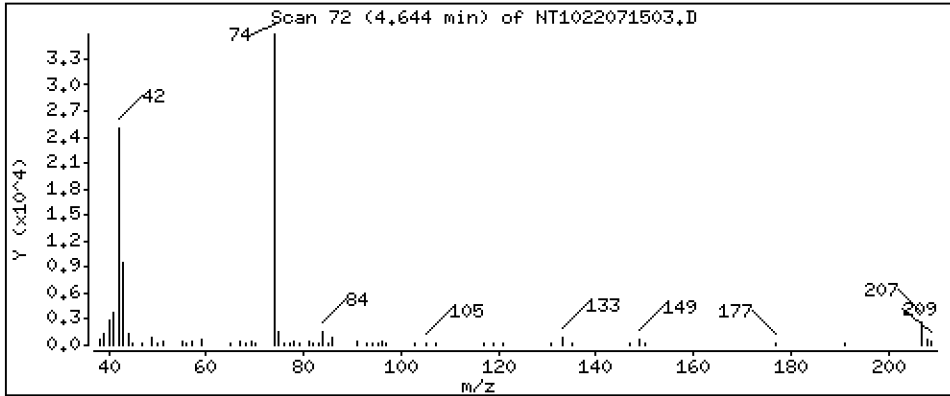
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,7993 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

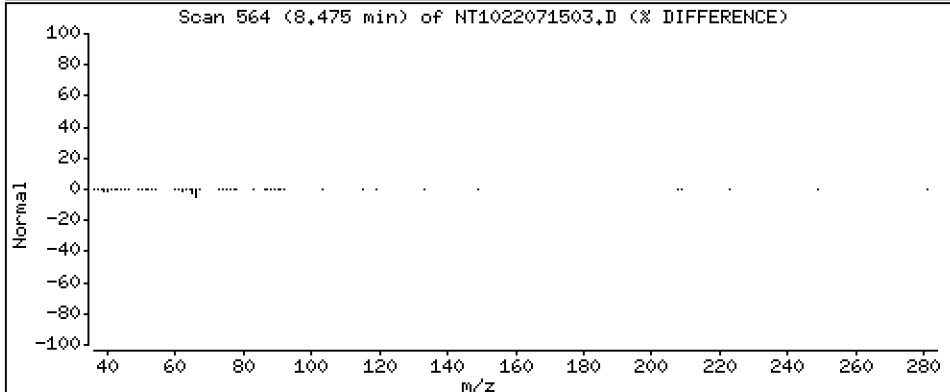
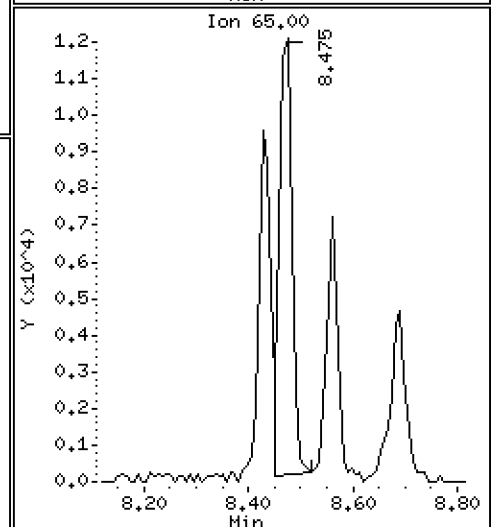
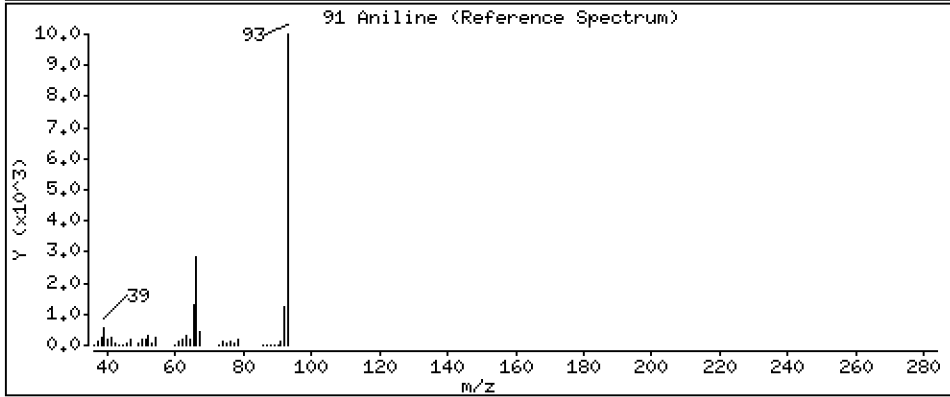
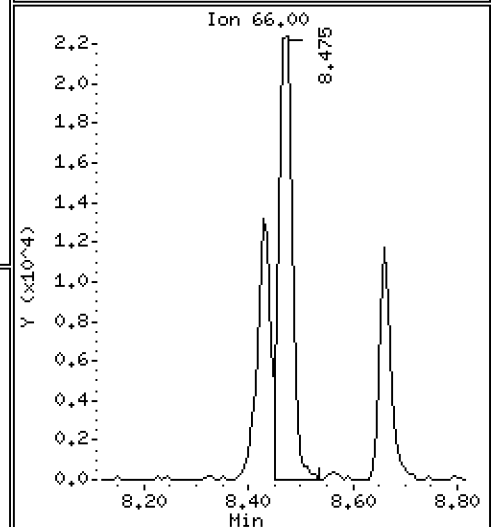
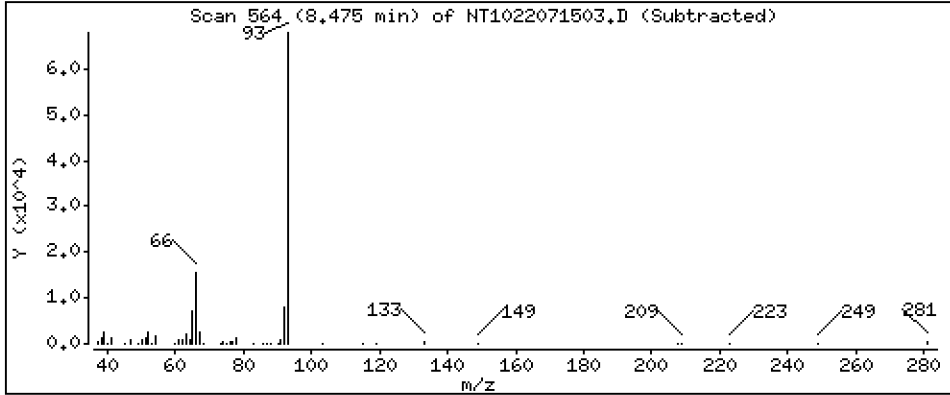
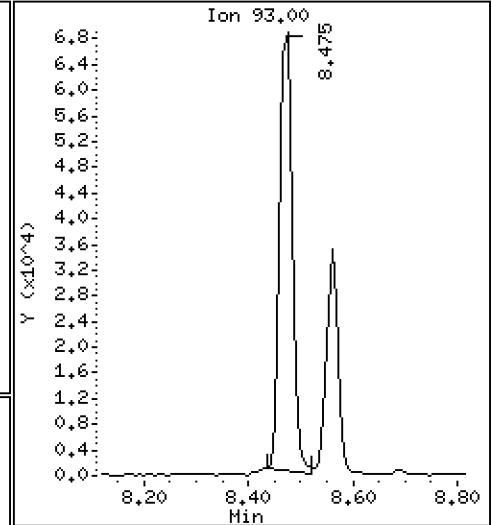
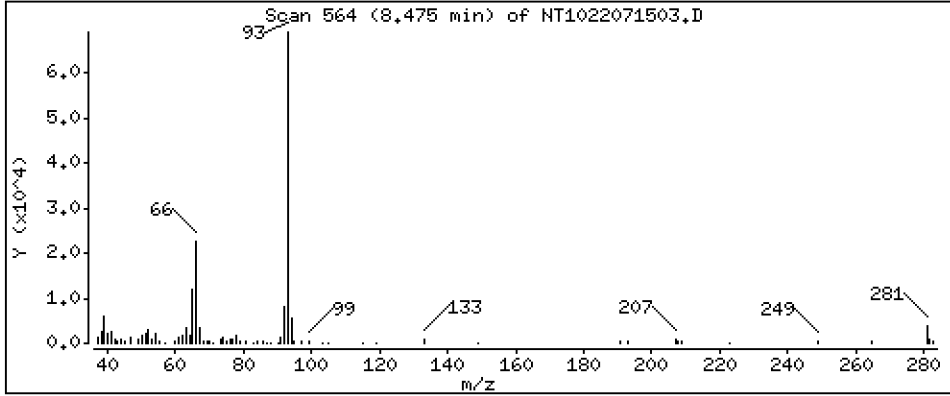
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,9161 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

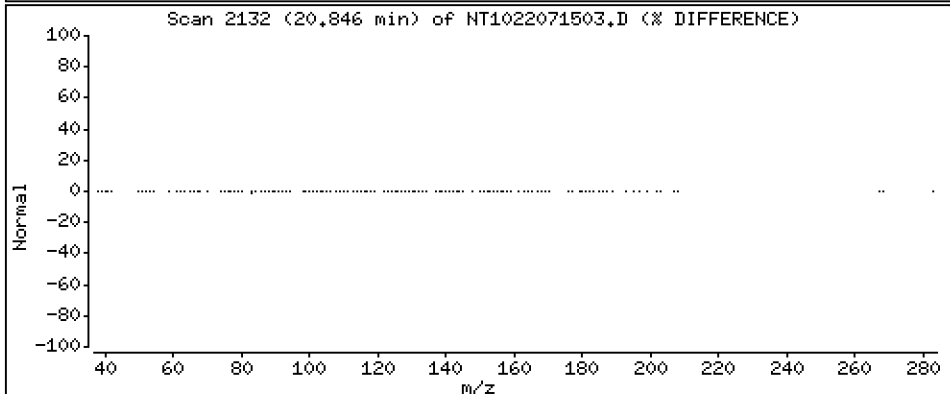
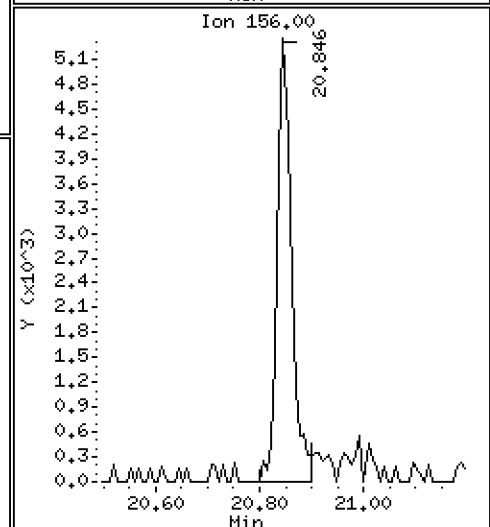
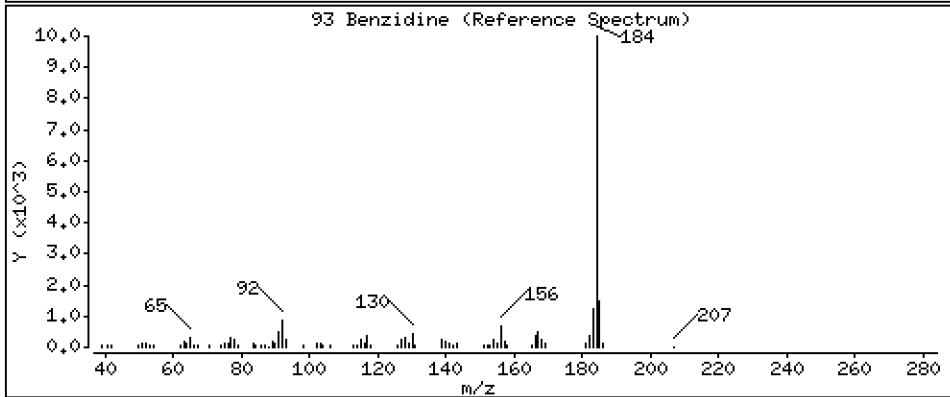
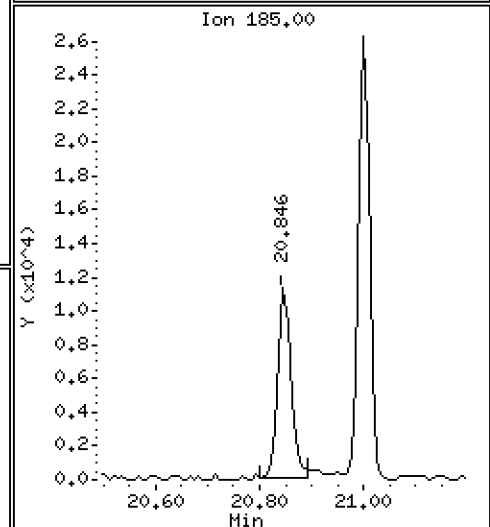
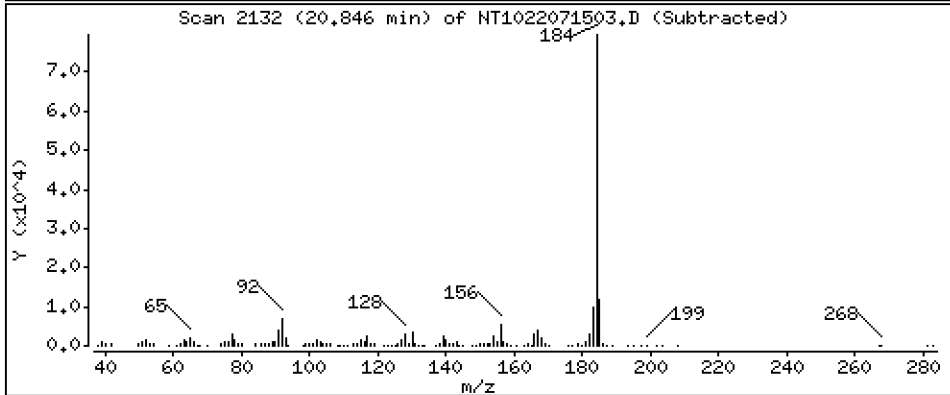
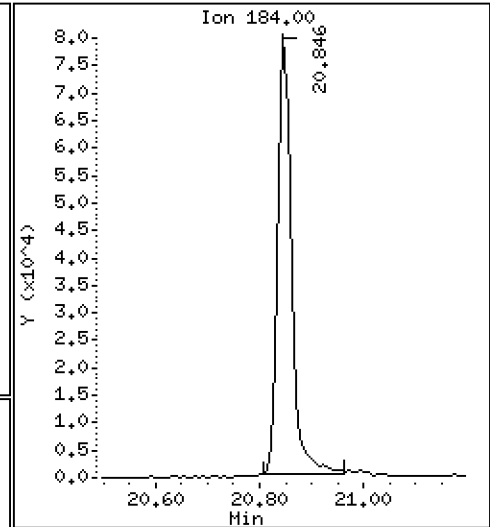
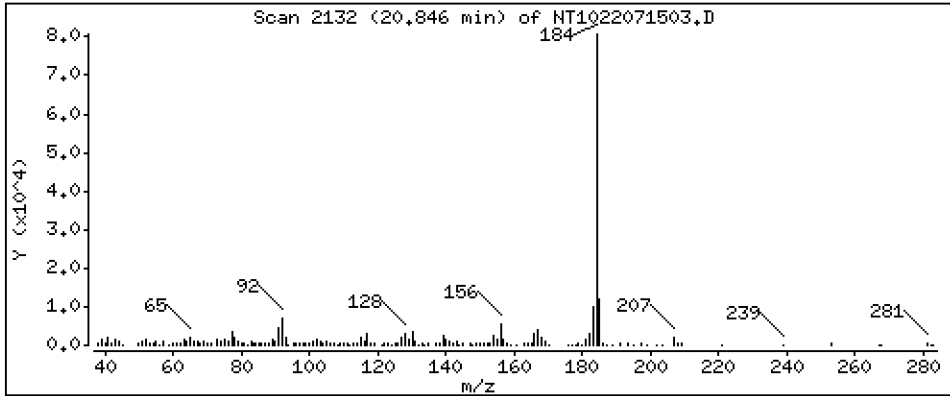
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,146 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

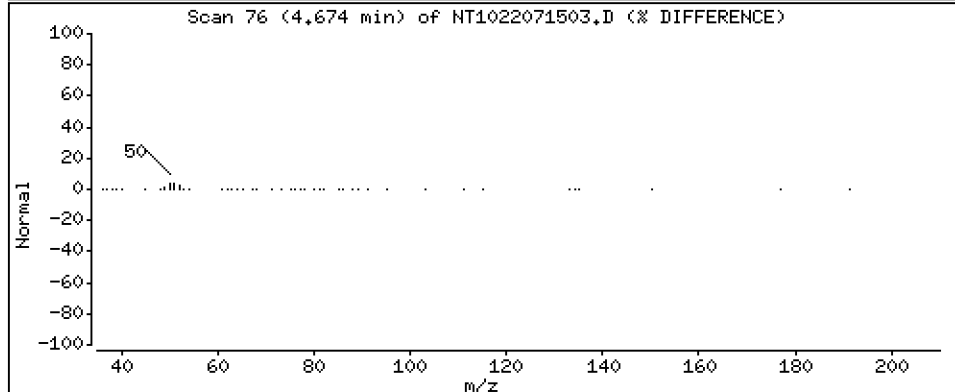
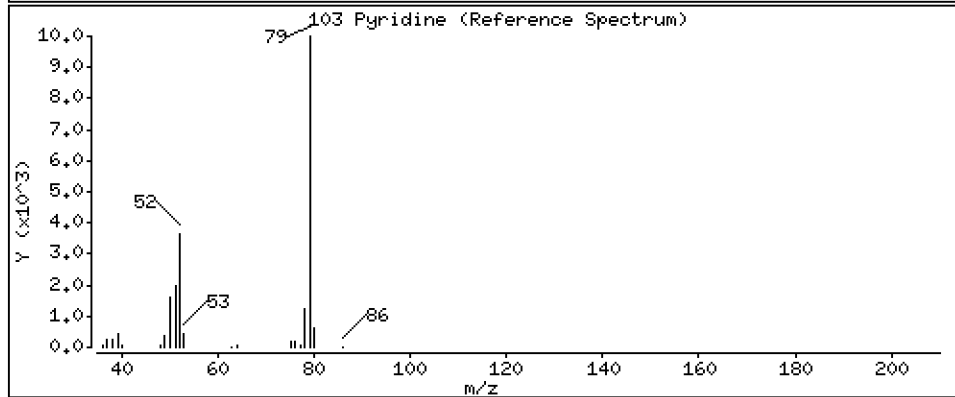
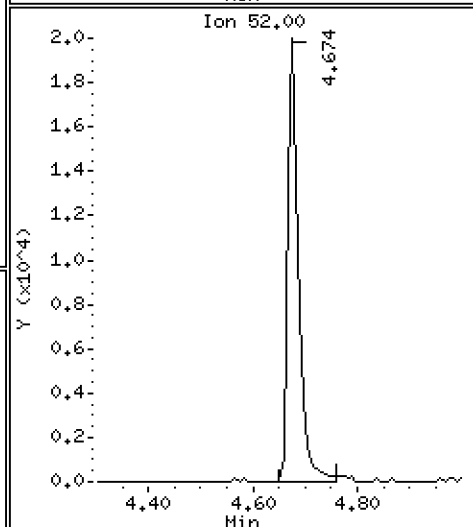
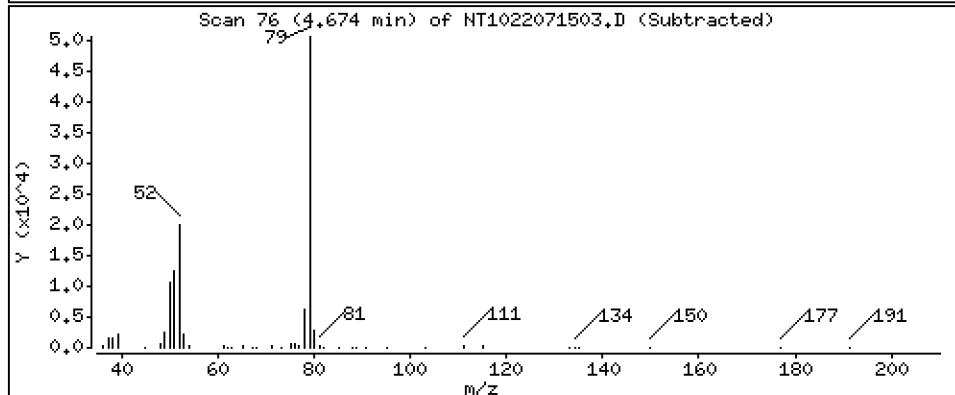
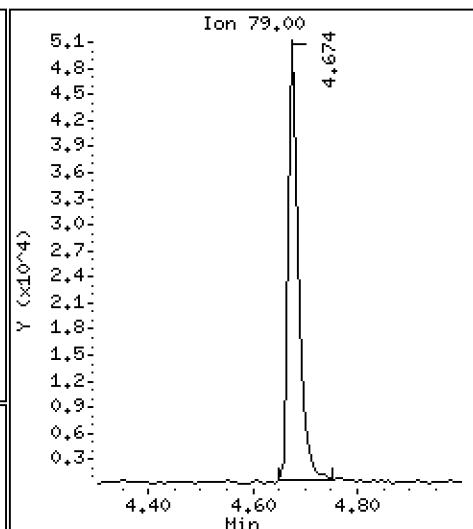
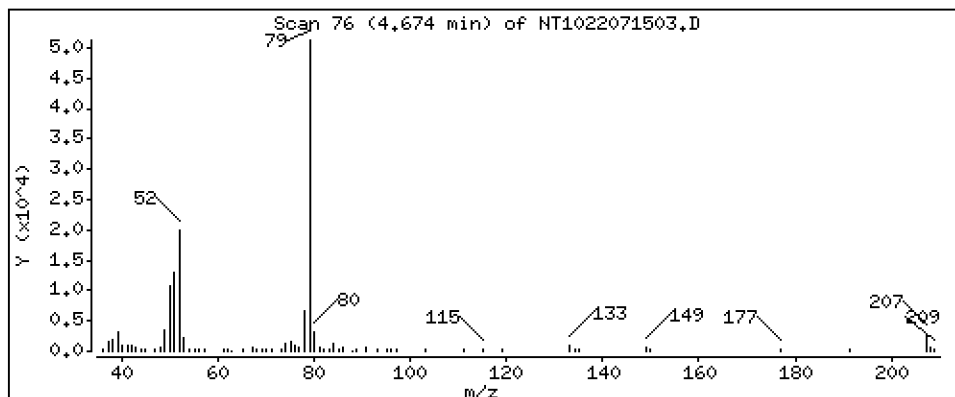
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,4202 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

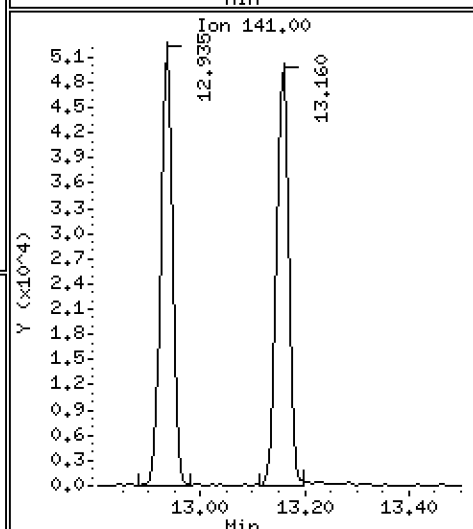
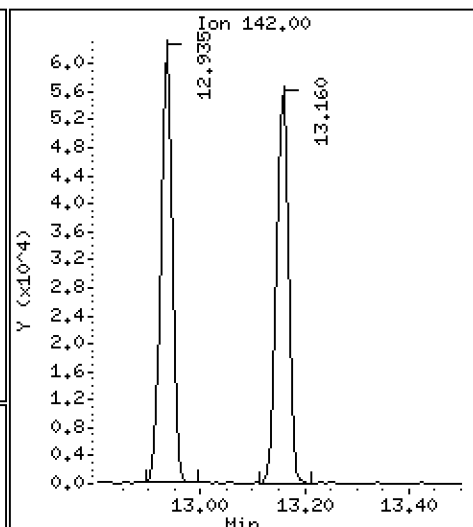
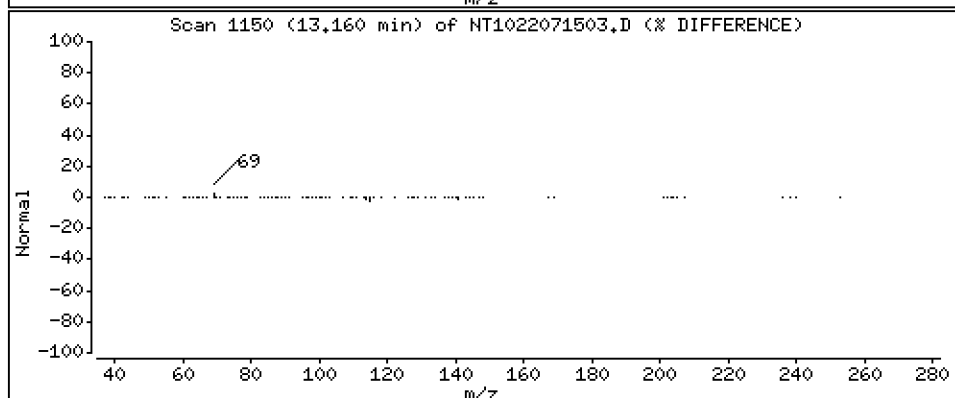
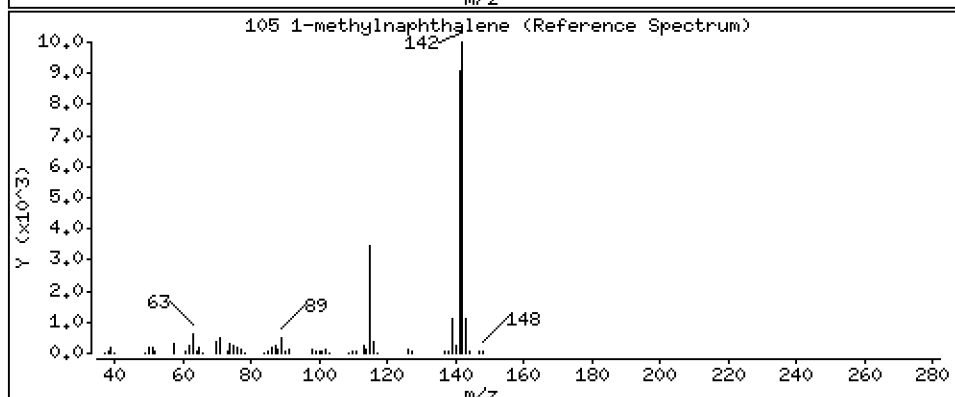
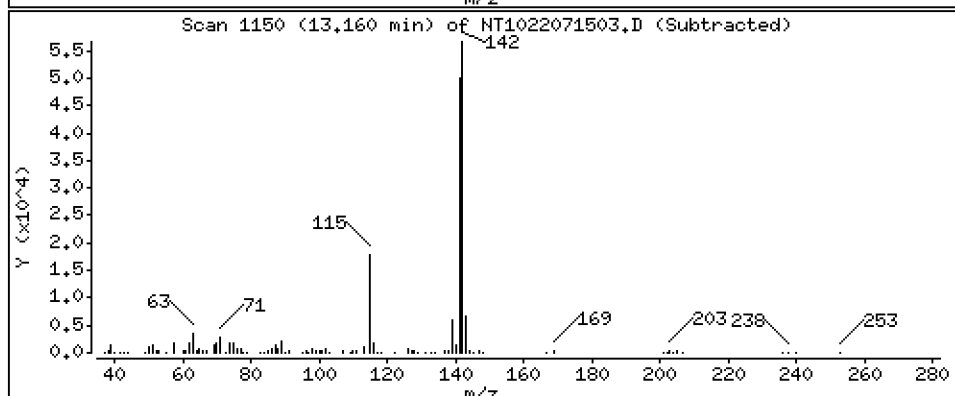
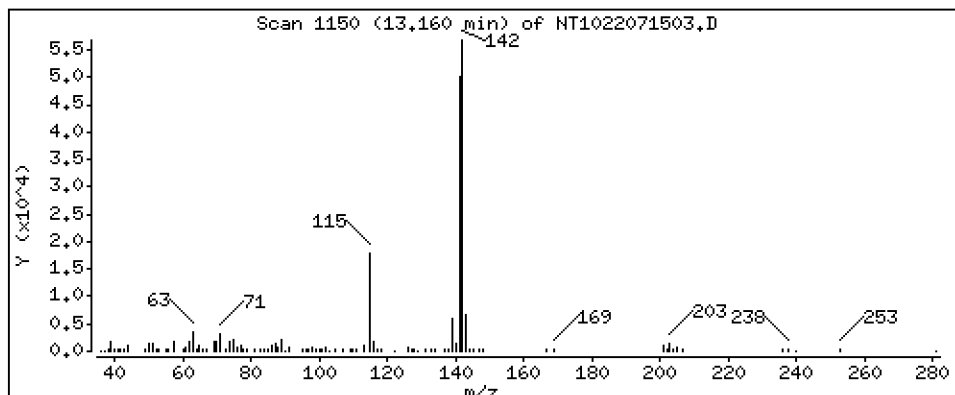
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,4550 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

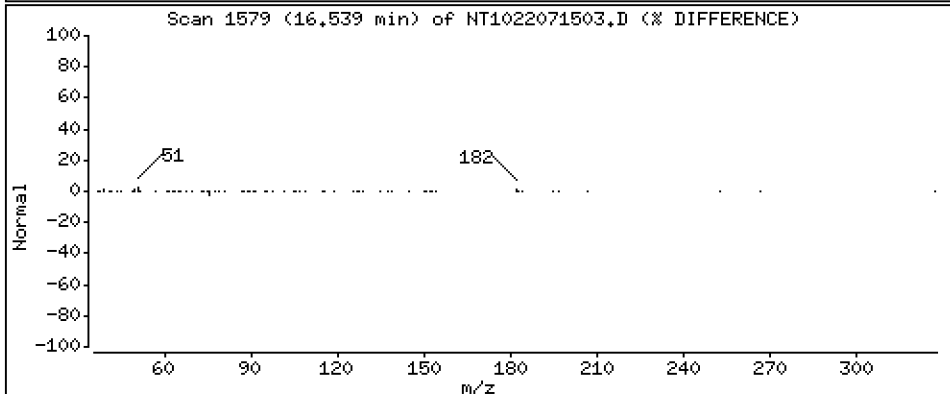
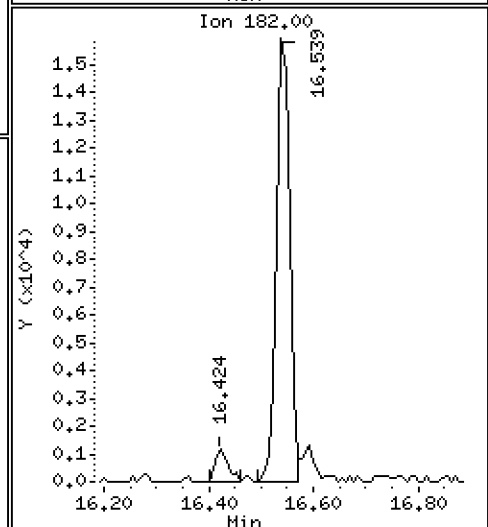
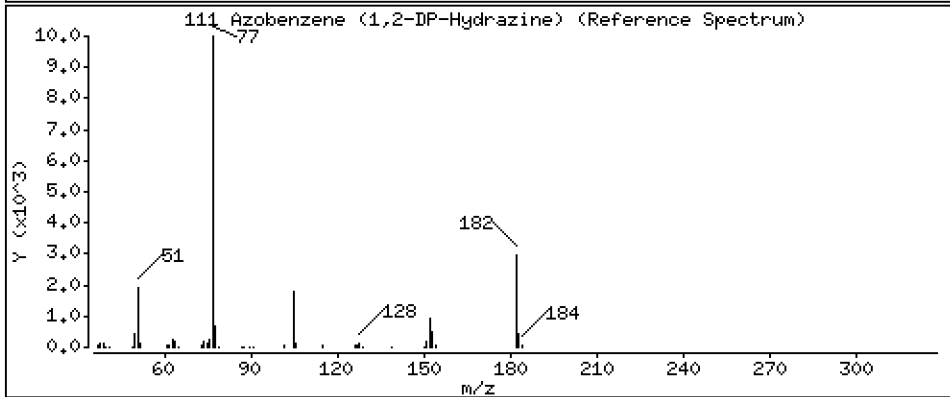
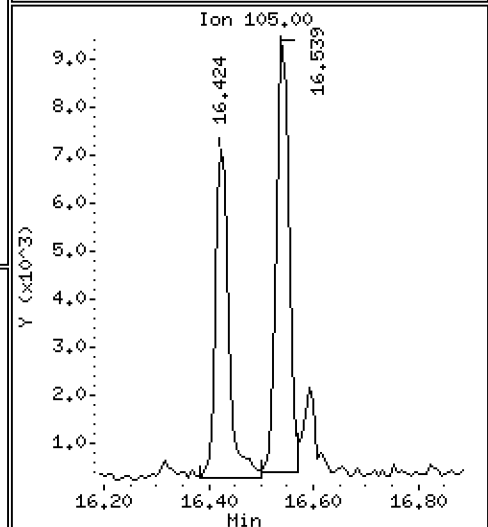
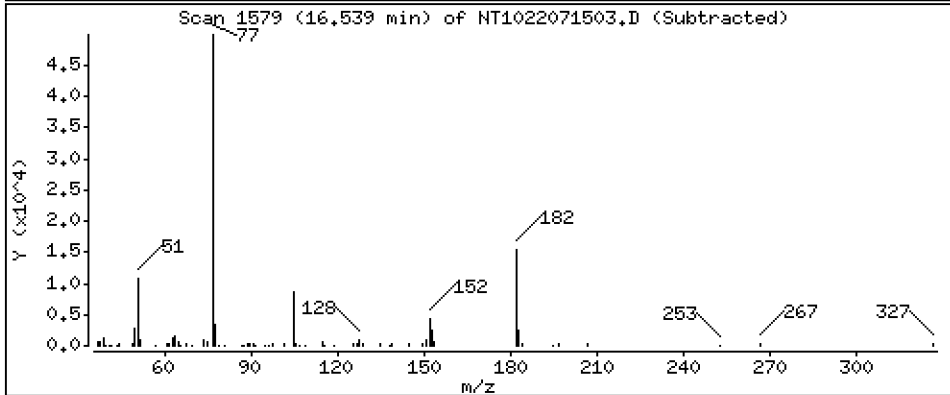
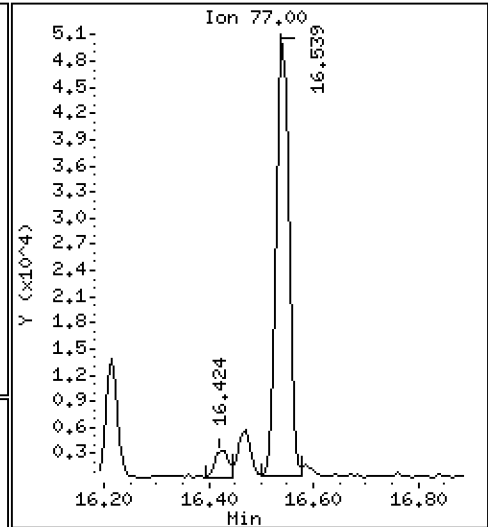
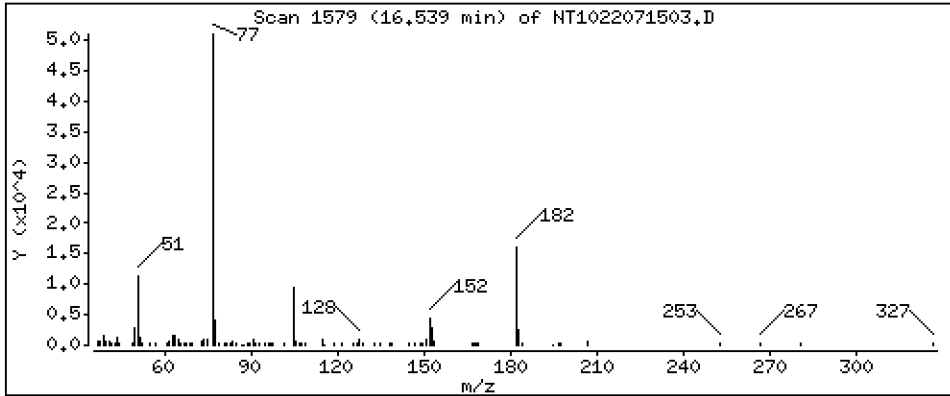
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,4997 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

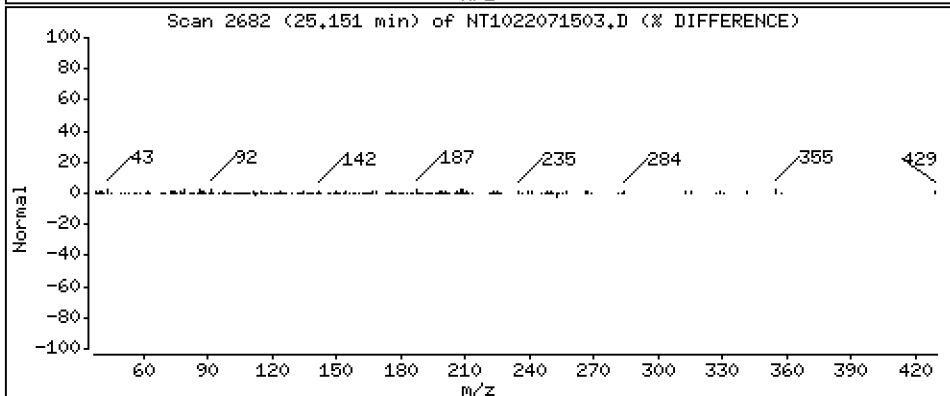
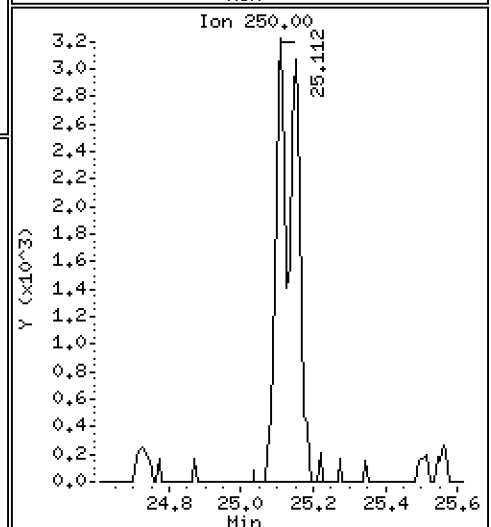
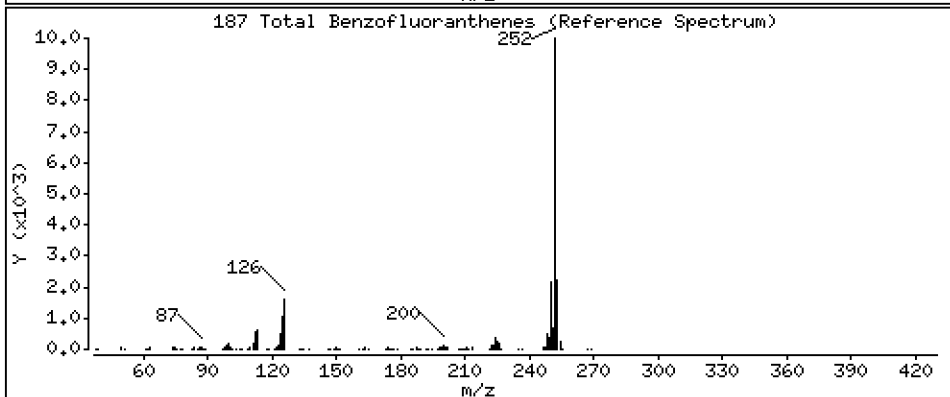
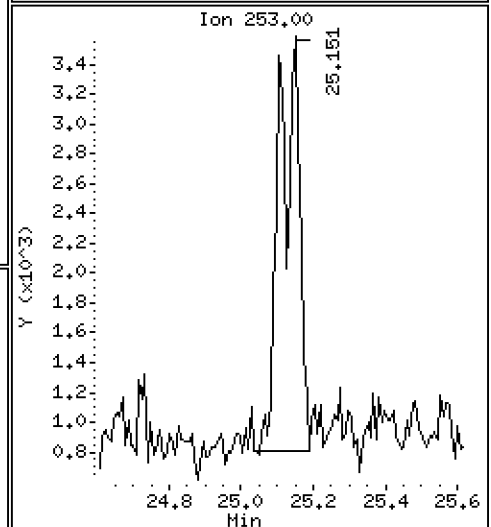
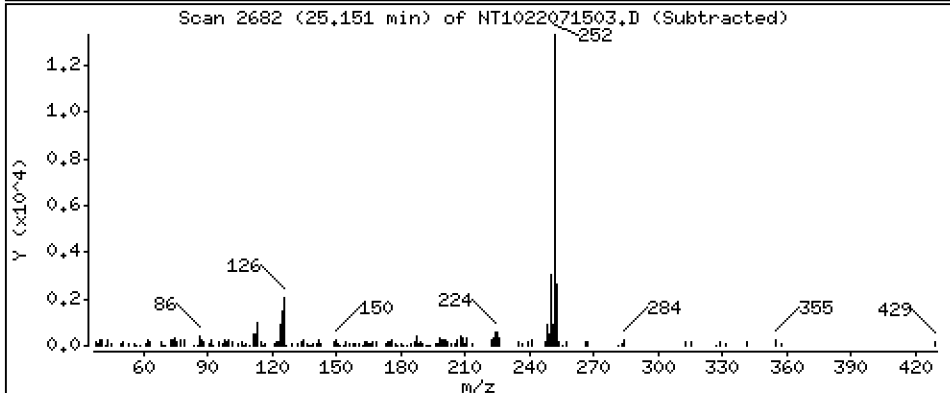
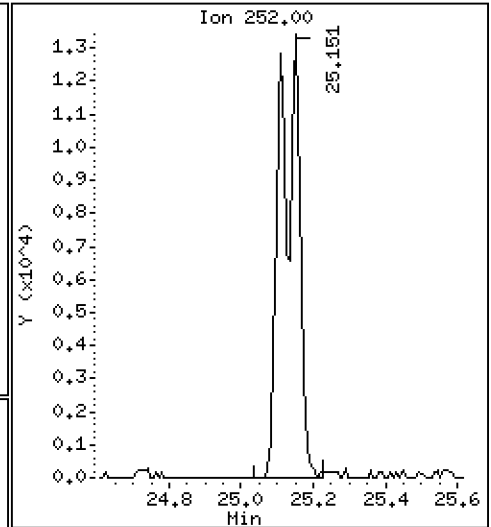
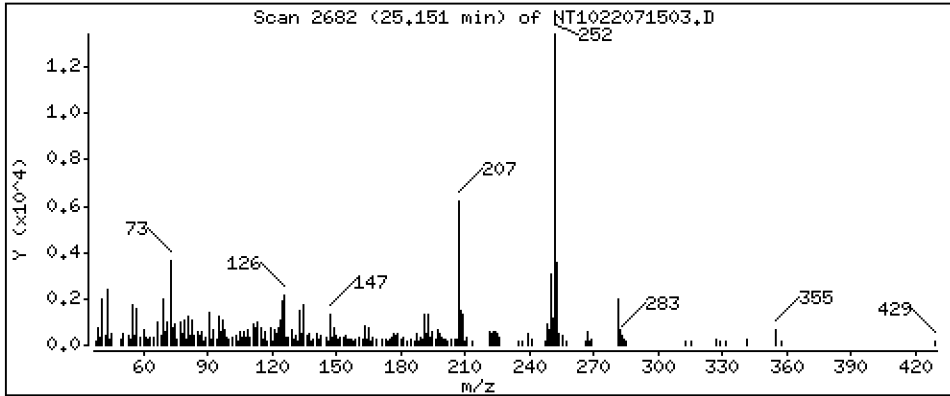
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,010 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

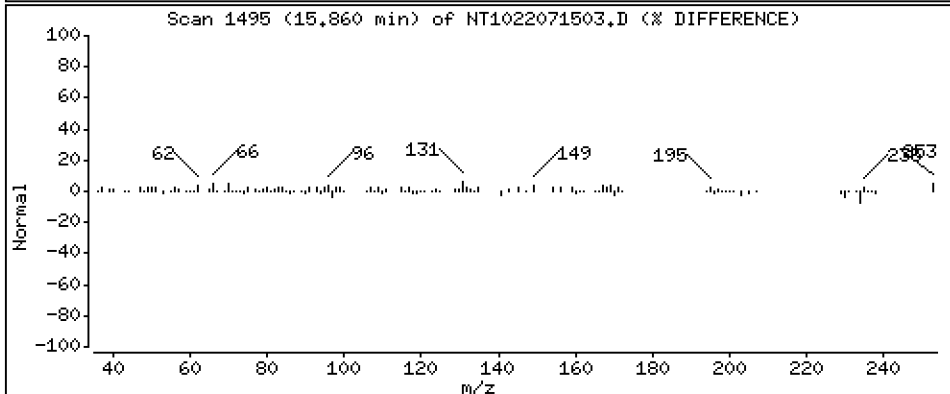
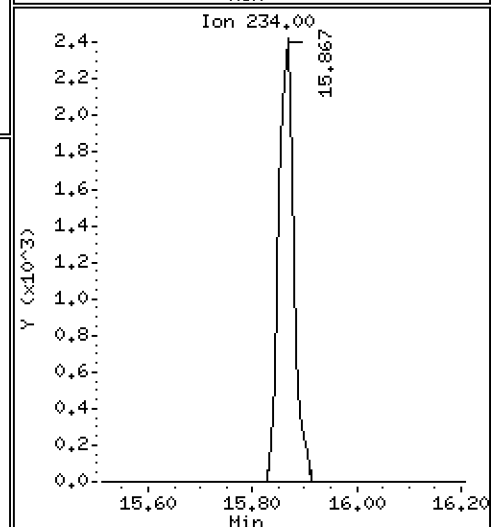
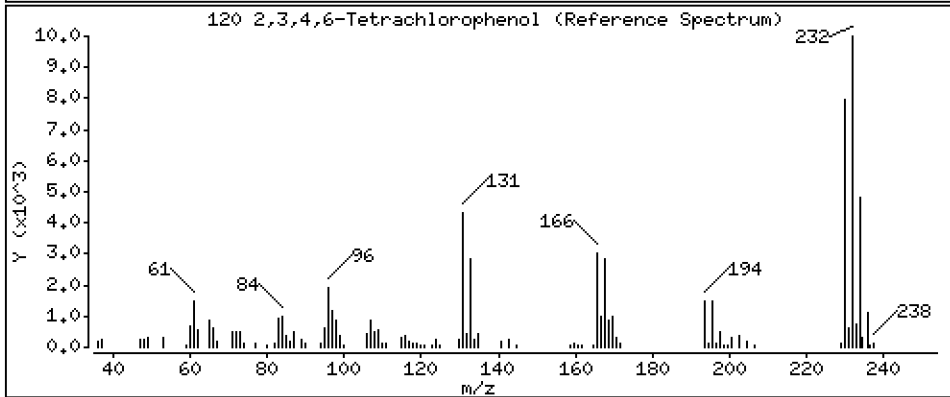
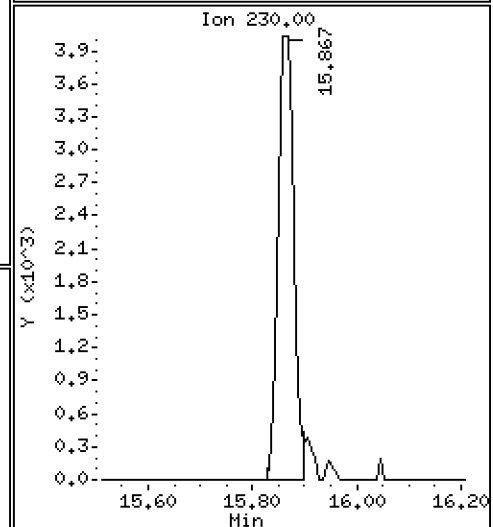
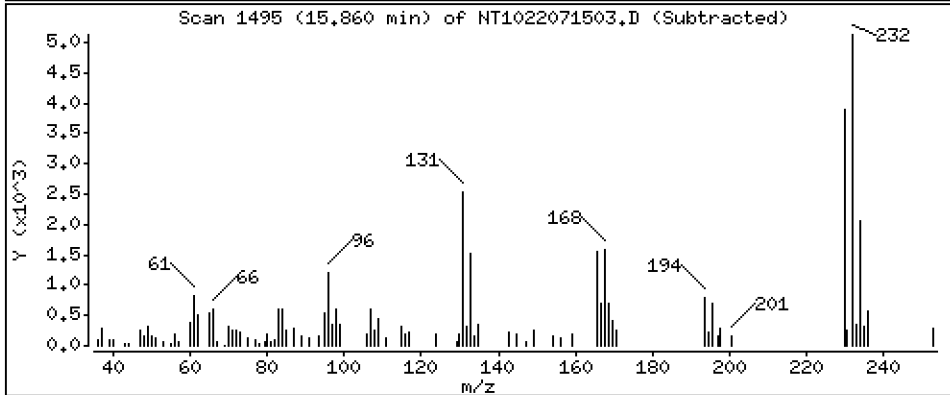
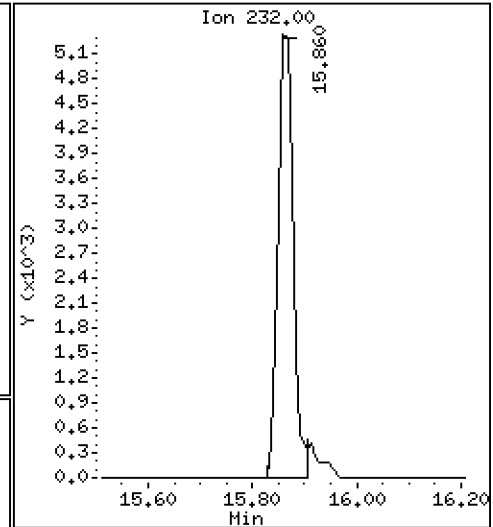
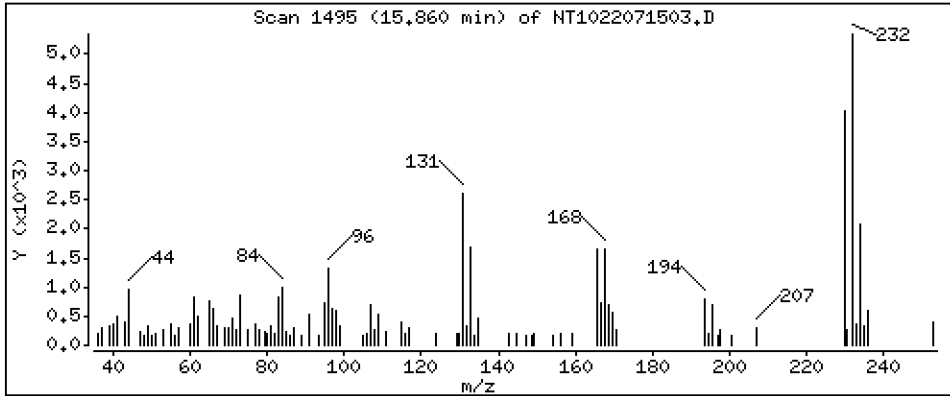
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,2900 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071503.D
 Lab Smp Id: SKG0154-LCV1
 Inj Date : 15-JUL-2022 13:28
 Operator : VTS
 Smp Info : SKG0154-LCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.821	6.806	(0.757)	78565	0.84467	0.8447
\$ 2 Phenol-d5	99		8.413	8.398	(0.933)	96418	0.69863	0.6986
3 Phenol	94		8.436	8.421	(0.936)	66201	0.55048	0.5505
\$ 5 2-Chlorophenol-d4	132		8.660	8.652	(0.961)	78625	0.82960	0.8296
4 Bis(2-Chloroethyl)ether	93		8.560	8.552	(0.949)	53537	0.61857	0.6186
6 2-Chlorophenol	128		8.691	8.683	(0.964)	50695	0.52876	0.5288
7 1,3-Dichlorobenzene	146		8.946	8.939	(0.992)	64404	0.62107	0.6211
* 8 1,4-Dichlorobenzene-d4	152		9.016	9.001	(1.000)	254722	4.00000	
9 1,4-Dichlorobenzene	146		9.047	9.032	(1.003)	42109	0.51515	0.5152
\$ 10 1,2-Dichlorobenzene-d4	152		9.373	9.366	(1.040)	33340	0.57089	0.5709
12 1,2-Dichlorobenzene	146		9.397	9.389	(1.042)	53118	0.61214	0.6121
11 Benzyl alcohol	108		9.296	9.280	(1.031)	26685	0.55702	0.5570
14 2,2'-oxybis(1-Chloropropane)	121		9.583	9.575	(1.063)	14991	0.73051	0.7305 (M)
13 2-Methylphenol	108		9.529	9.529	(1.057)	36909	0.49778	0.4978
17 Hexachloroethane	117		9.987	9.979	(1.108)	17994	0.49383	0.4938
16 N-Nitroso-di-n-propylamine	70		9.839	9.831	(1.091)	28536	0.55337	0.5534
15 4-Methylphenol	108		9.800	9.793	(1.087)	39968	0.50439	0.5044
\$ 18 Nitrobenzene-d5	82		10.103	10.095	(0.879)	43682	0.53074	0.5307
19 Nitrobenzene	77		10.142	10.134	(0.882)	45310	0.54621	0.5462
20 Isophorone	82		10.584	10.584	(0.921)	63866	0.53221	0.5322
21 2-Nitrophenol	139		10.768	10.759	(0.937)	24350	0.46473	0.4647
22 2,4-Dimethylphenol	107		10.844	10.836	(0.943)	74673	1.17317	1.173
23 Bis(2-Chloroethoxy)methane	93		11.014	11.014	(0.958)	45124	0.62588	0.6259
24 Benzoic acid	105		10.980	11.065	(0.955)	23674	0.72146	0.7215
25 2,4-Dichlorophenol	162		11.243	11.234	(0.978)	65790	1.01700	1.017
26 1,2,4-Trichlorobenzene	180		11.411	11.403	(0.993)	46870	0.67500	0.6750
* 27 Naphthalene-d8	136		11.496	11.488	(1.000)	773487	4.00000	
28 Naphthalene	128		11.535	11.535	(1.003)	109742	0.55437	0.5544
29 4-Chloroaniline	127		11.674	11.666	(1.015)	82390	0.94258	0.9426
30 Hexachlorobutadiene	225		11.898	11.890	(1.035)	22067	0.66616	0.6662
31 4-Chloro-3-methylphenol	107		12.664	12.656	(1.102)	64000	0.83859	0.8386
32 2-Methylnaphthalene	142		12.935	12.927	(1.125)	96994	0.49300	0.4930
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.569	13.569	(0.898)	46924	1.02347	1.023
35 2,4,5-Trichlorophenol	196	13.662	13.647	(0.904)	51935	0.94350	0.9435
\$ 36 2-Fluorobiphenyl	172	13.716	13.716	(0.907)	110241	0.60389	0.6039
37 2-Chloronaphthalene	162	13.925	13.925	(0.921)	97689	0.60703	0.6070
38 2-Nitroaniline	65	14.188	14.188	(0.939)	42064	0.97716	0.9772
39 Dimethylphthalate	163	14.622	14.622	(0.967)	111764	0.79003	0.7900
40 Acenaphthylene	152	14.800	14.800	(0.979)	140620	0.59632	0.5963
41 2,6-Dinitrotoluene	165	14.761	14.761	(0.976)	41120	1.25152	1.252
* 42 Acenaphthene-d10	164	15.117	15.109	(1.000)	403405	4.00000	
43 3-Nitroaniline	138	15.048	15.048	(0.995)	48837	1.26264	1.263
44 Acenaphthene	153	15.179	15.179	(1.004)	66048	0.56297	0.5630
45 2,4-Dinitrophenol	184	15.280	15.272	(1.011)	3368	0.23132	0.2313
46 Dibenzofuran	168	15.511	15.511	(1.026)	99236	0.53224	0.5322
47 4-Nitrophenol	109	15.434	15.419	(1.021)	7514	0.59494	0.5949
48 2,4-Dinitrotoluene	165	15.581	15.581	(1.031)	49310	1.12289	1.123
50 Diethylphthalate	149	16.076	16.084	(1.063)	93713	0.77222	0.7722
49 Fluorene	166	16.223	16.223	(1.073)	122055	0.54785	0.5479
51 4-Chlorophenyl-phenylether	204	16.215	16.215	(1.073)	54023	0.55218	0.5522
52 4-Nitroaniline	138	16.315	16.323	(1.079)	48896	1.26217	1.262
53 4,6-Dinitro-2-methylphenol	198	16.423	16.431	(0.904)	30106	1.13784	1.138
54 N-Nitrosodiphenylamine	169	16.469	16.469	(0.907)	77360	0.72920	0.7292
\$ 55 2,4,6-Tribromophenol	330	16.762	16.762	(1.109)	11100	0.61011	0.6101 (M)
56 4-Bromophenyl-phenylether	248	17.217	17.217	(0.948)	30547	0.62147	0.6215
57 Hexachlorobenzene	284	17.542	17.534	(0.966)	32362	0.68740	0.6874
58 Pentachlorophenol	266	17.921	17.906	(0.987)	1530	0.15150	0.1515
* 59 Phenanthrene-d10	188	18.161	18.161	(1.000)	674687	4.00000	
60 Phenanthrene	178	18.207	18.207	(1.003)	99392	0.56073	0.5607
61 Anthracene	178	18.300	18.300	(1.008)	104088	0.55105	0.5510
62 Carbazole	167	18.641	18.641	(1.026)	116688	0.66961	0.6696
63 Di-n-butylphthalate	149	19.445	19.445	(1.071)	143637	0.54886	0.5489
64 Fluoranthene	202	20.606	20.606	(0.887)	115349	0.72060	0.7206
65 Pyrene	202	21.039	21.031	(0.905)	86408	0.61742	0.6174
\$ 66 Terphenyl-d14	244	21.326	21.326	(0.918)	72636	0.91883	0.9188
67 Butylbenzylphthalate	149	22.262	22.262	(0.958)	50027	1.09317	1.093
68 Benzo(a)anthracene	228	23.215	23.215	(0.999)	55661	0.57985	0.5799
* 69 Chrysene-d12	240	23.238	23.246	(1.000)	226532	4.00000	
70 3,3'-Dichlorobenzidine	252	23.168	23.176	(0.997)	64678	2.06772	2.068
71 Chrysene	228	23.285	23.292	(1.002)	27937	0.43848	0.4385
72 bis(2-Ethylhexyl)phthalate	149	23.308	23.308	(0.959)	25525	0.87745	0.8774
* 134 Di-n-octylphthalate-d4	153	24.299	24.306	(1.000)	263183	4.00000	
73 Di-n-octylphthalate	149	24.314	24.314	(1.001)	38417	0.64222	0.6422
74 Benzo(b)fluoranthene	252	25.112	25.112	(0.970)	28073	0.53368	0.5337
75 Benzo(k)fluoranthene	252	25.150	25.158	(0.972)	24319	0.48078	0.4808
76 Benzo(a)pyrene	252	25.762	25.762	(0.996)	21088	0.48982	0.4898
* 77 Perylene-d12	264	25.878	25.878	(1.000)	116151	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.536	28.544	(1.103)	24919	0.54210	0.5421
79 Dibenzo(a,h)anthracene	278	28.560	28.560	(1.104)	20218	0.57454	0.5745
80 Benzo(g,h,i)perylene	276	29.321	29.329	(1.133)	20241	0.55085	0.5508
90 N-Nitrosodimethylamine	74	4.643	4.628	(0.515)	48643	0.79931	0.7993
91 Aniline	93	8.475	8.467	(0.940)	110186	0.91610	0.9161
93 Benzidine	184	20.846	20.846	(0.897)	138557	4.14596	4.146
103 Pyridine	79	4.674	4.651	(0.518)	72496	0.42024	0.4202
105 1-methylnaphthalene	142	13.159	13.151	(1.145)	87957	0.45505	0.4550
111 Azobenzene (1,2-DP-Hydrazine)	77	16.539	16.539	(1.094)	80514	0.49973	0.4997

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252		25.150	25.112	(0.972)	49518	1.00961	1.010
120 2,3,4,6-Tetrachlorophenol	232		15.859	15.859	(1.049)	10331	0.29005	0.2900

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071503.D Calibration Time: 12:41
 Lab Smp Id: SKG0154-LCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	254722	26.39
27 Naphthalene-d8	649654	324827	1299308	773487	19.06
42 Acenaphthene-d10	370460	185230	740920	403405	8.89
59 Phenanthrene-d10	647298	323649	1294596	674687	4.23
69 Chrysene-d12	221116	110558	442232	226532	2.45
134 Di-n-octylphthala	319144	159572	638288	263183	-17.53
77 Perylene-d12	105234	52617	210468	116151	10.37

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.02	0.17
27 Naphthalene-d8	11.49	10.99	11.99	11.50	0.07
42 Acenaphthene-d10	15.11	14.61	15.61	15.12	0.05
59 Phenanthrene-d10	18.16	17.66	18.66	18.16	-0.00
69 Chrysene-d12	23.25	22.75	23.75	23.24	-0.03
134 Di-n-octylphthala	24.31	23.81	24.81	24.30	-0.03
77 Perylene-d12	25.88	25.38	26.38	25.88	0.00

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

REVIEW SUMMARY FOR FILE - NT1022071503.D

Lab ID: SKG0154-LCV1
nt10.i, ABN.m, 15-JUL-2022 13:28

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.955	0.963	-0.0080	Benzoic acid

RRT check based on Ccal File: NT1022071502.D

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

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

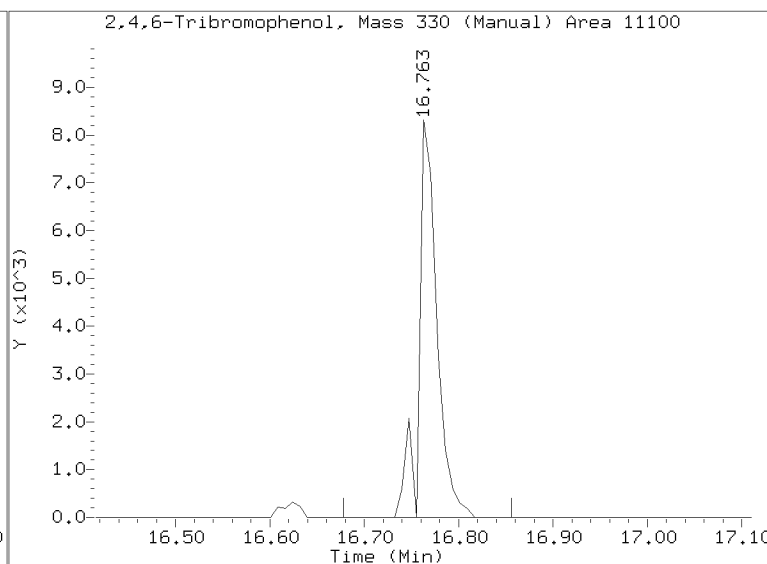
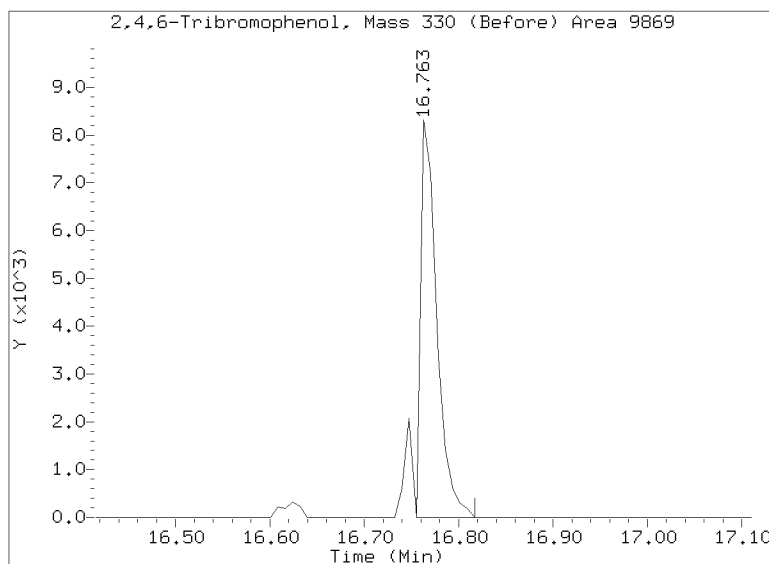
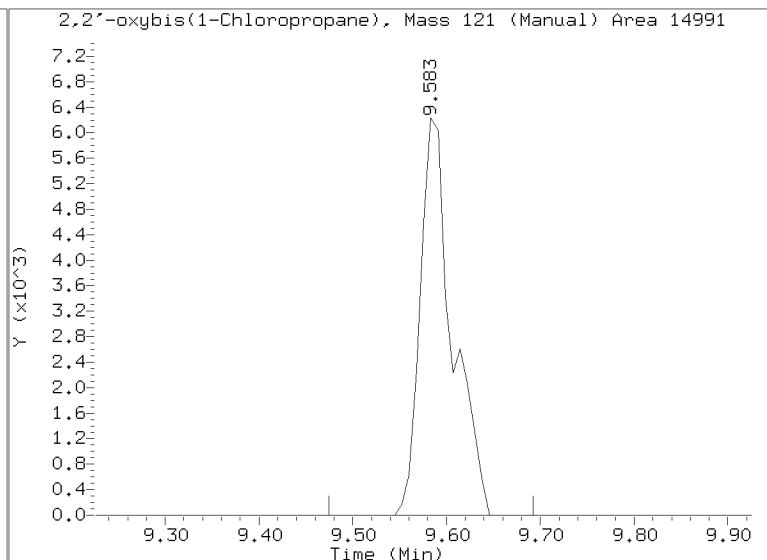
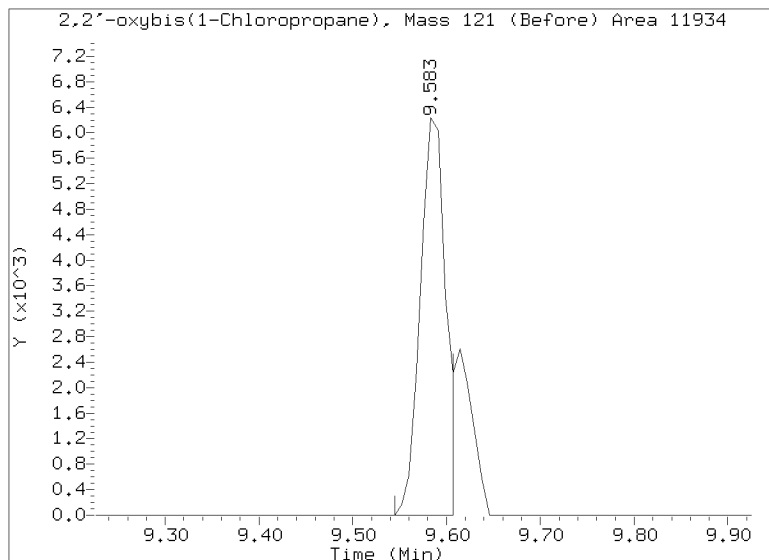
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071503.D

Injection Date: 15-JUL-2022 13:28

Lab ID:SKG0154-LCV1 Client ID:

Report Date: 07/16/2022 09:01





**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FF00062

Laboratory ID: SKG0154-LCV2

Sequence: SKG0154

Standard ID: K005648

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Naphthalene	0.20000	0.2	-7.7	50.00
2-Methylnaphthalene	0.20000	0.2	-12.1	50.00
Acenaphthene	0.20000	0.2	-8.7	50.00
Pentachlorophenol	0.40000	0.0		50.00
Phenanthrene	0.20000	0.2	-8.5	50.00
Fluoranthene	0.20000	0.2	-7.1	50.00
Benzo(a)anthracene	0.20000	0.2	0.06	50.00
Chrysene	0.20000	0.2	-1.1	50.00
Benzo(b)fluoranthene	0.20000	0.2	-11.0	50.00
Benzo(k)fluoranthene	0.20000	0.2	3.5	50.00
Benzo(a)pyrene	0.20000	0.2	-0.2	50.00
Indeno(1,2,3-cd)pyrene	0.20000	0.2	-18.8	50.00
Dibenzo(a,h)anthracene	0.20000	0.2	-12.9	50.00
1-Methylnaphthalene	0.20000	0.2	-8.2	50.00
2-Fluorophenol	0.30000	0.285	-5.0	50.00
Phenol-d5	0.30000	0.231	-23.0	50.00
2-Chlorophenol-d4	0.30000	0.293	-2.4	50.00
1,2-Dichlorobenzene-d4	0.20000	0.196	-1.8	50.00
Nitrobenzene-d5	0.20000	0.181	-9.5	50.00
2-Fluorobiphenyl	0.20000	0.209	4.6	50.00
2,4,6-Tribromophenol	0.30000	0.177	-41.0	50.00
p-Terphenyl-d14	0.20000	0.270	34.9	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt10,1\20220715,6\NT1022071504.D

Date: 15-JUL-2022 14:07

Client ID:

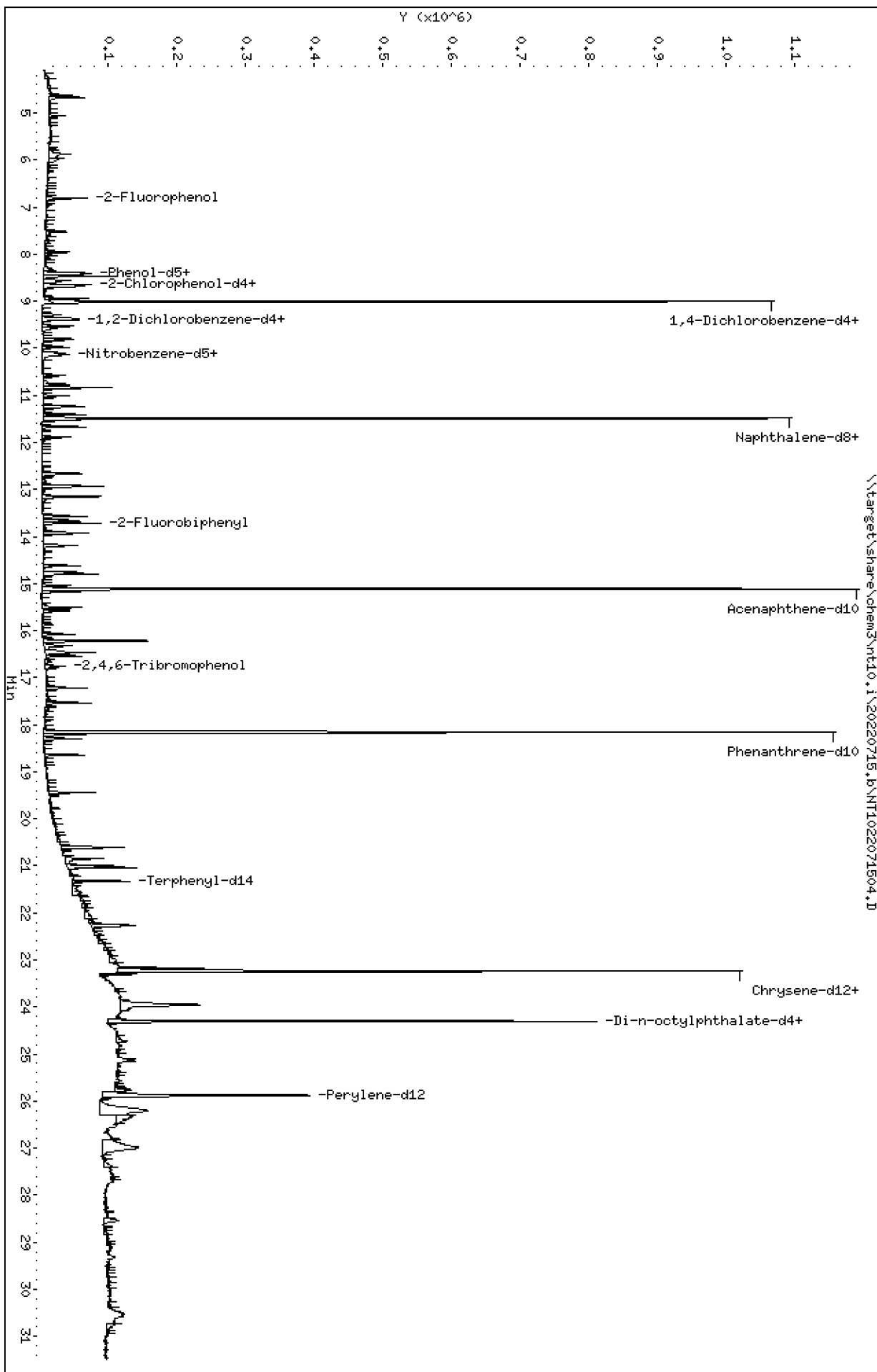
Sample Info: SKC0154-LCW2

Column phase: ZB-5msi

Instrument: nt10,1

Operator: VTS

Column diameter: 0.25



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

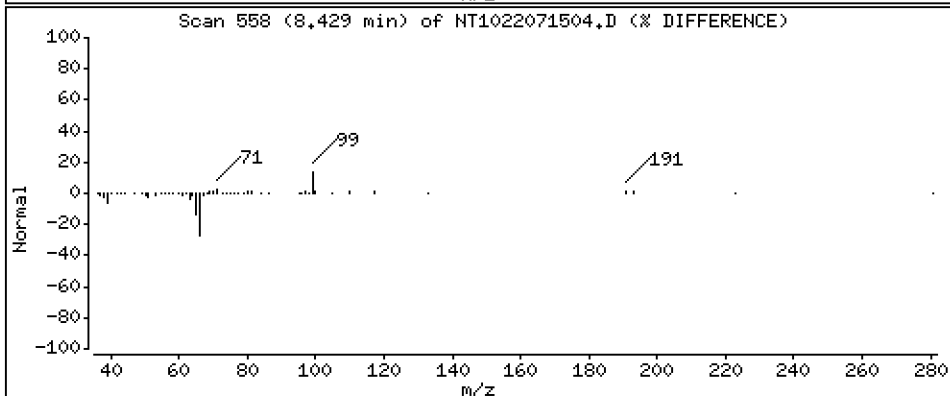
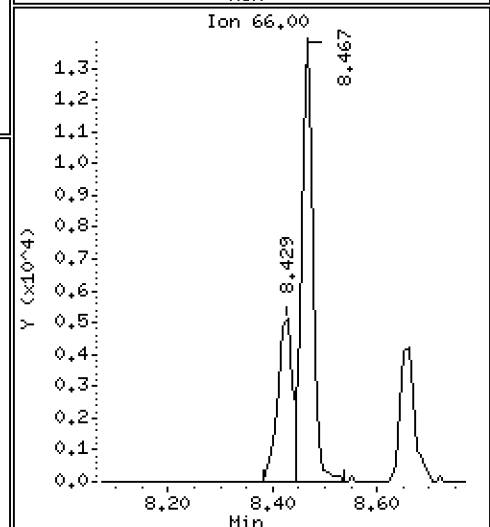
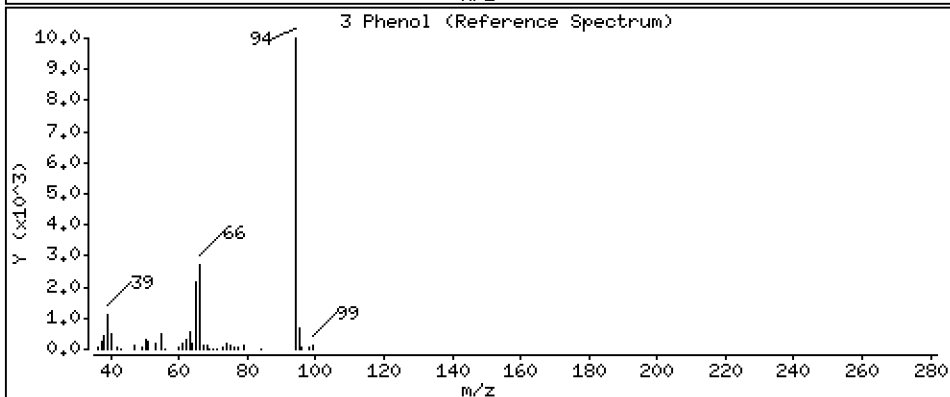
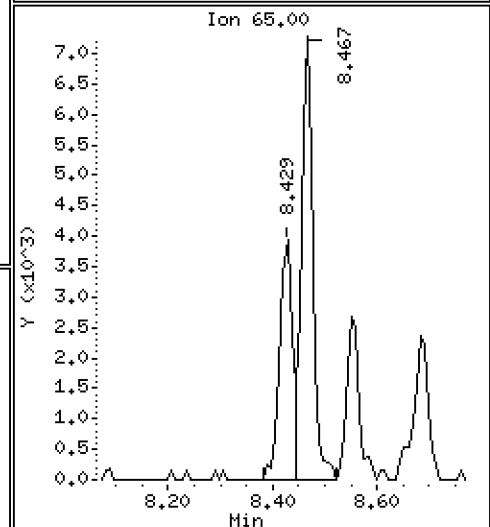
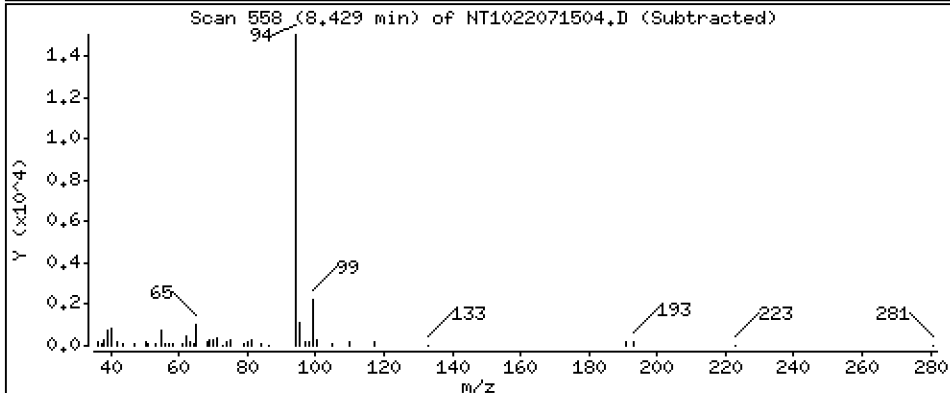
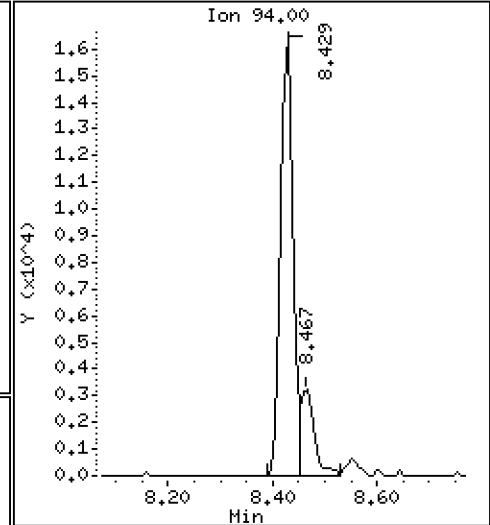
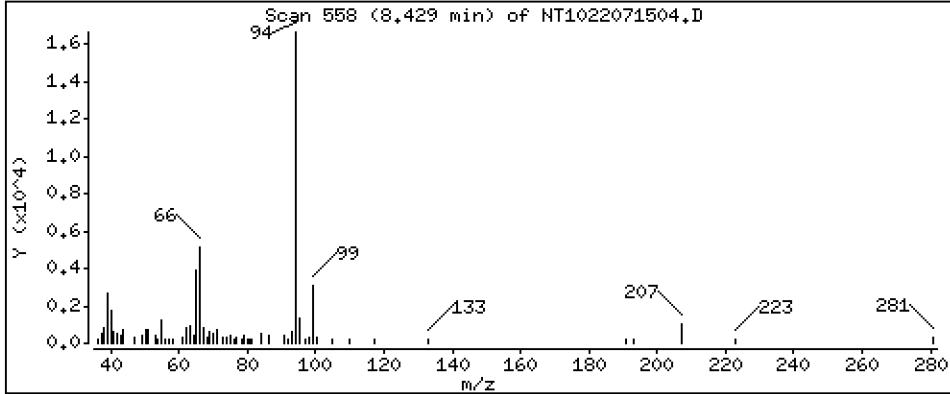
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,1779 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

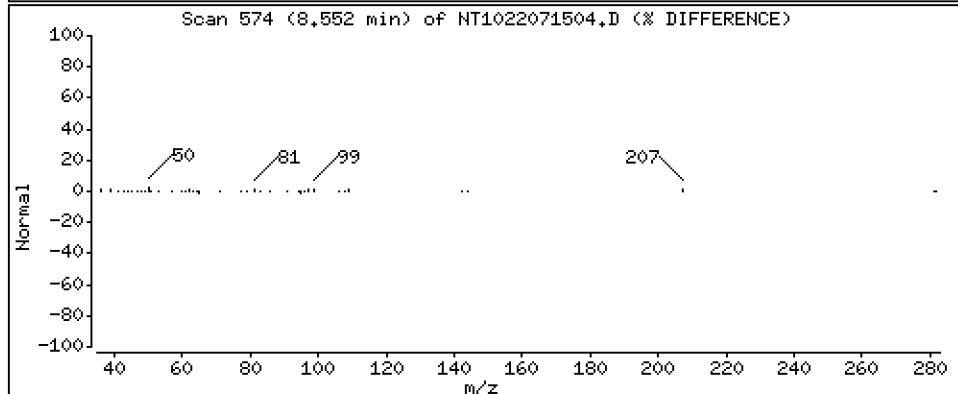
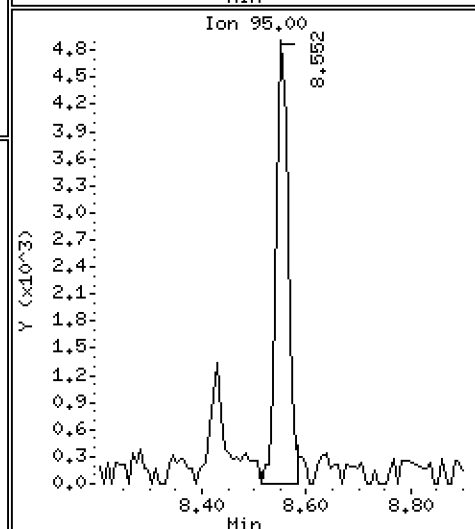
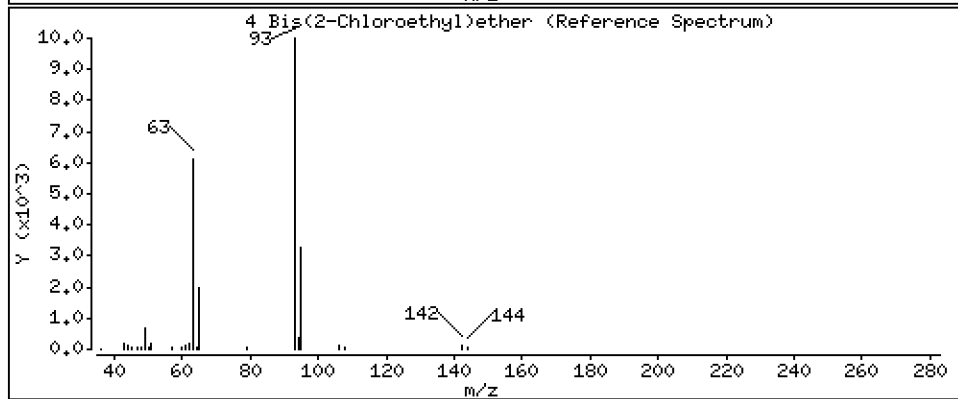
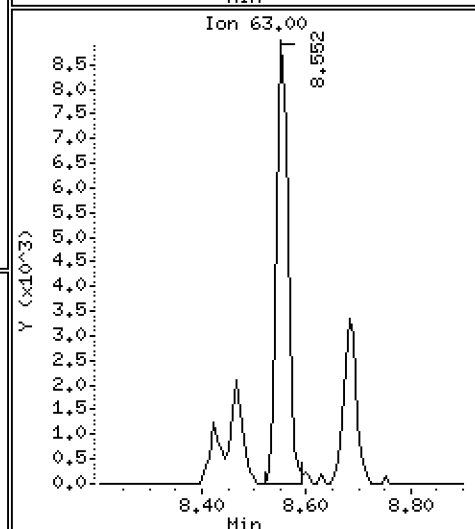
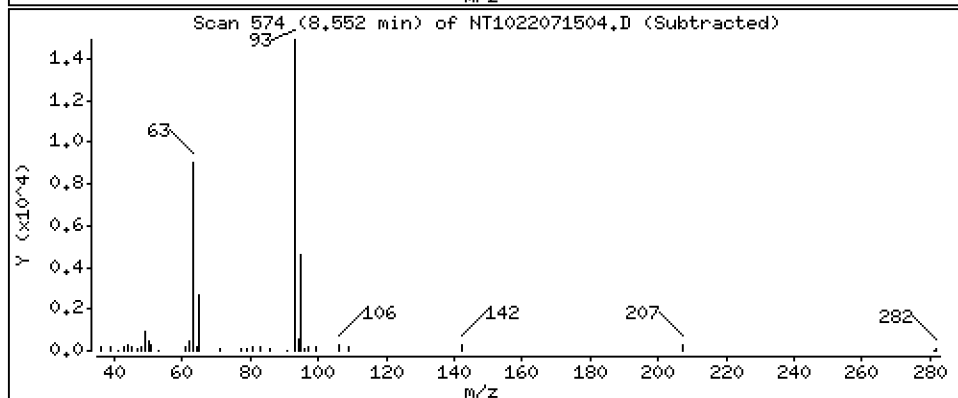
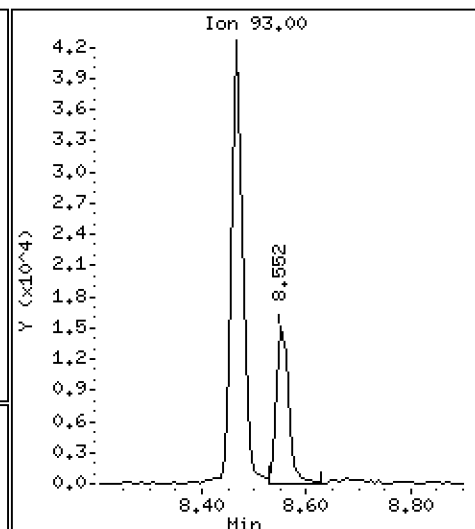
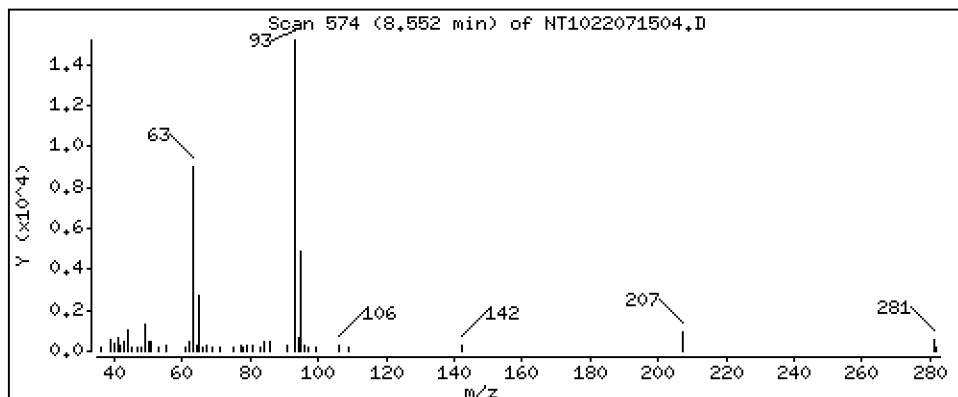
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2224 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

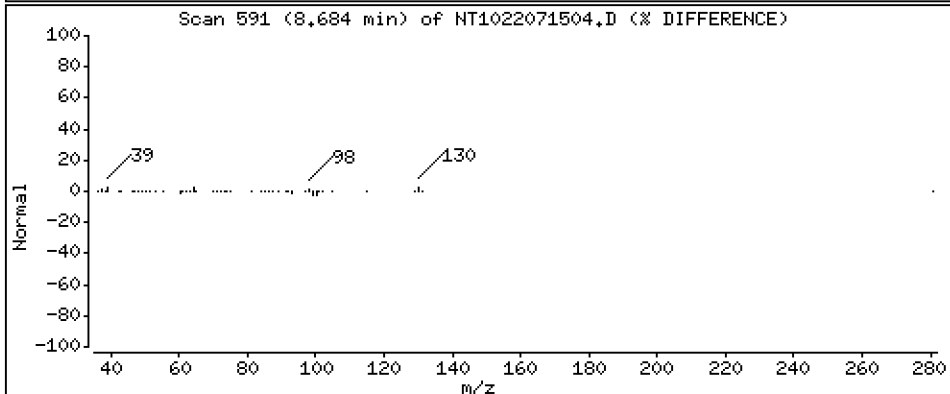
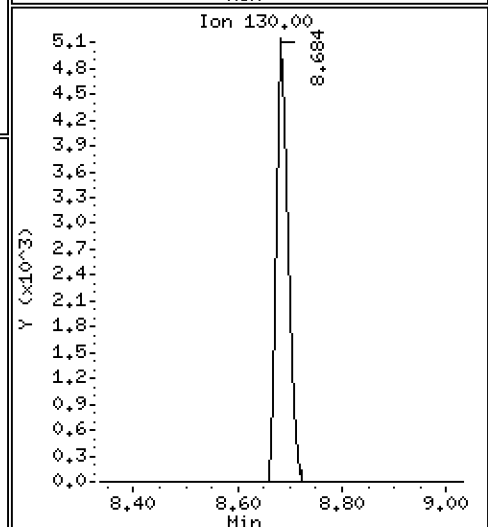
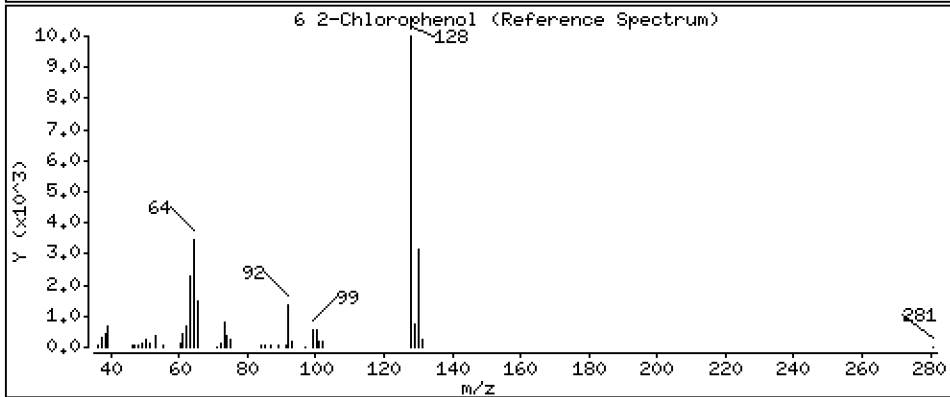
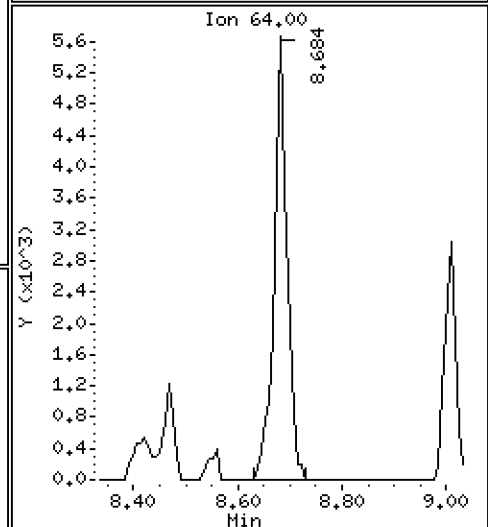
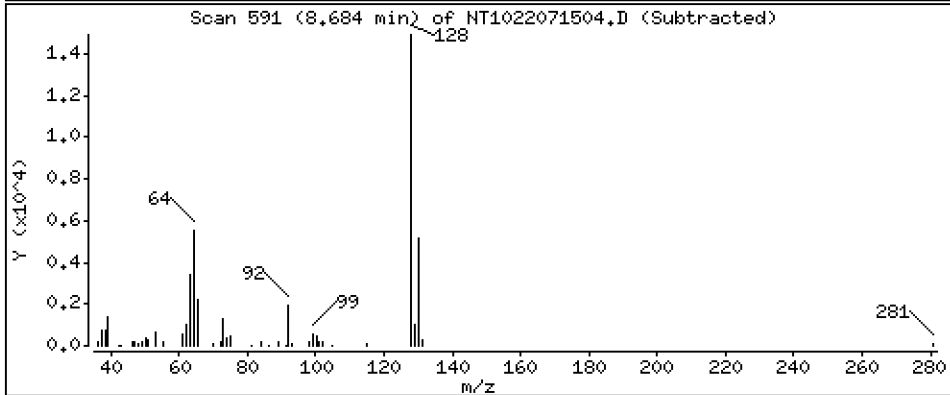
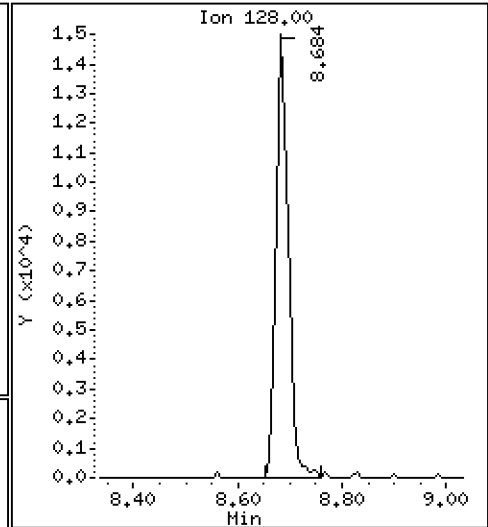
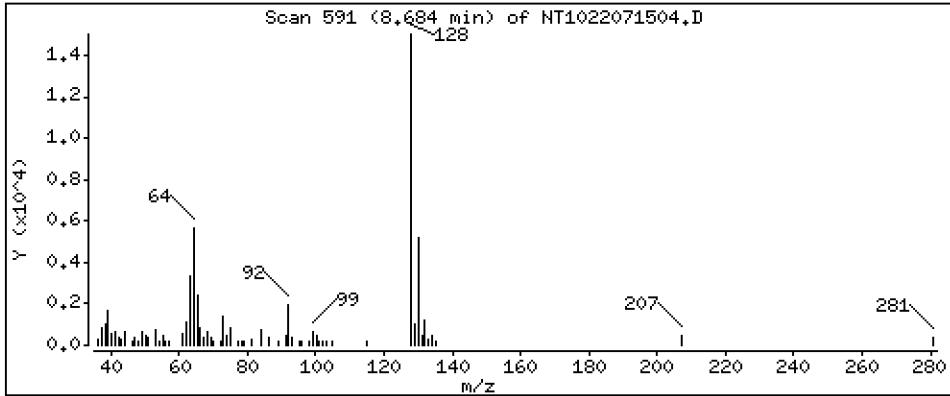
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,2045 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

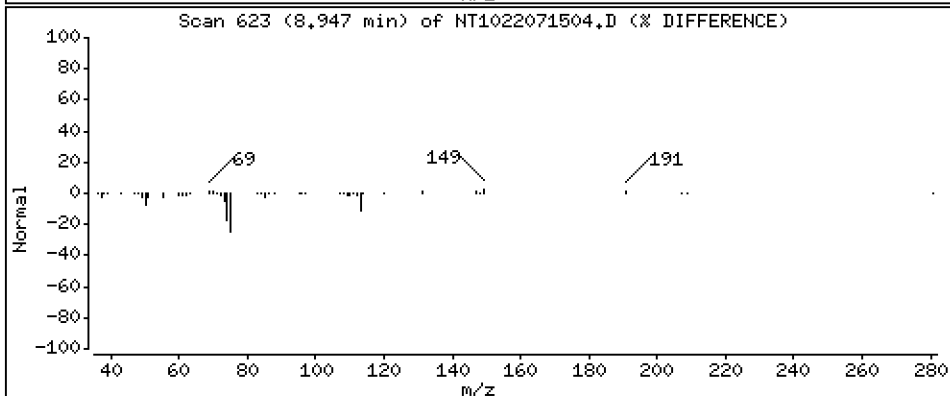
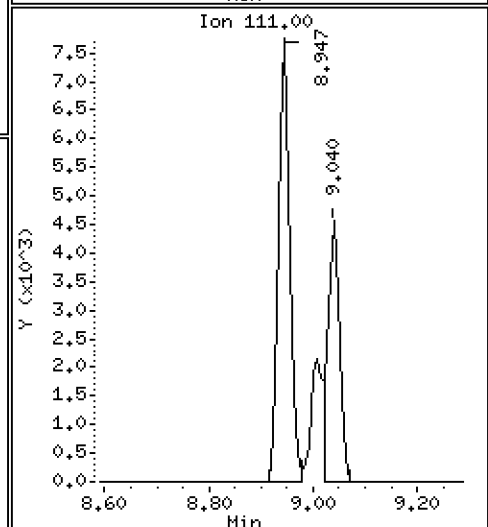
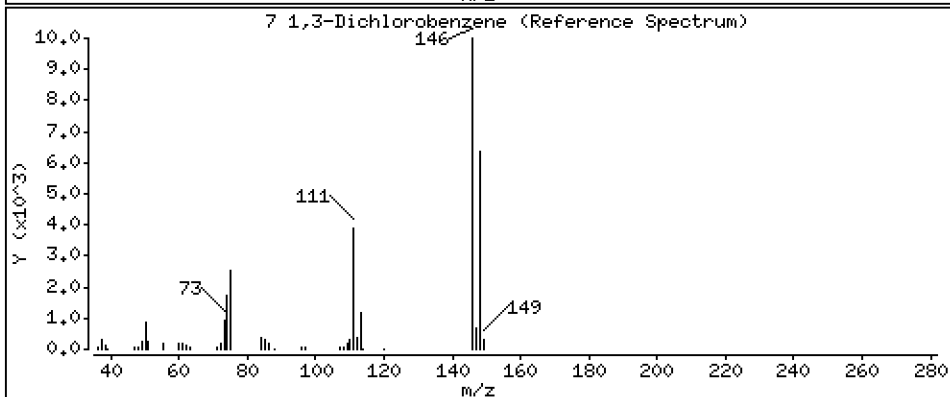
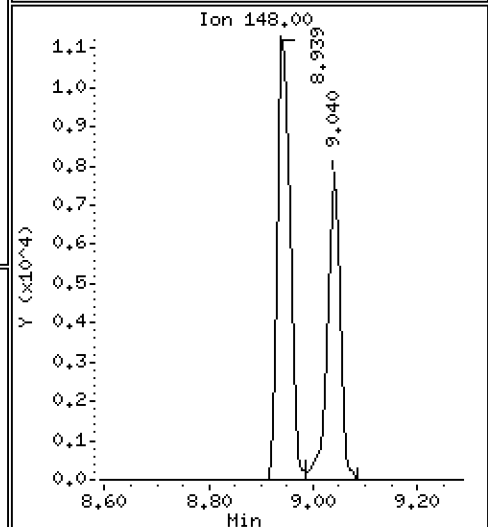
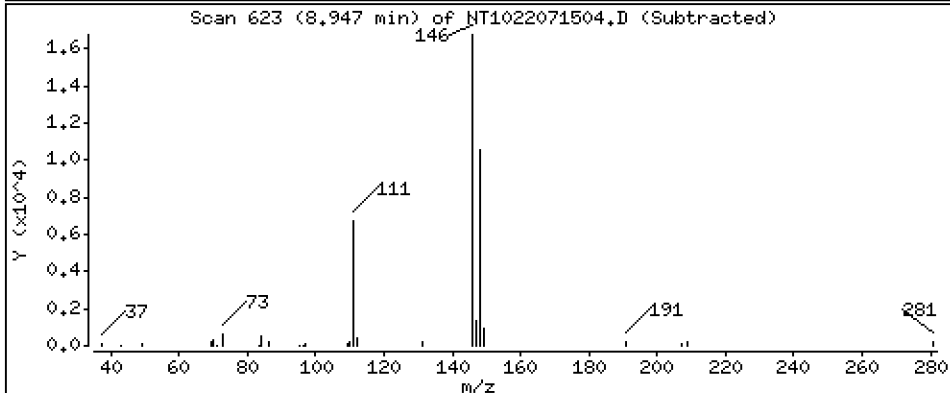
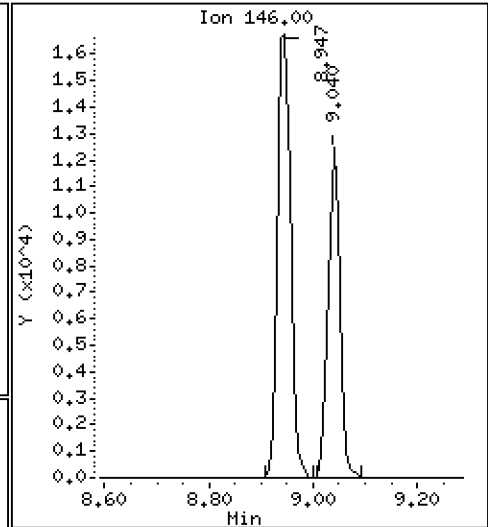
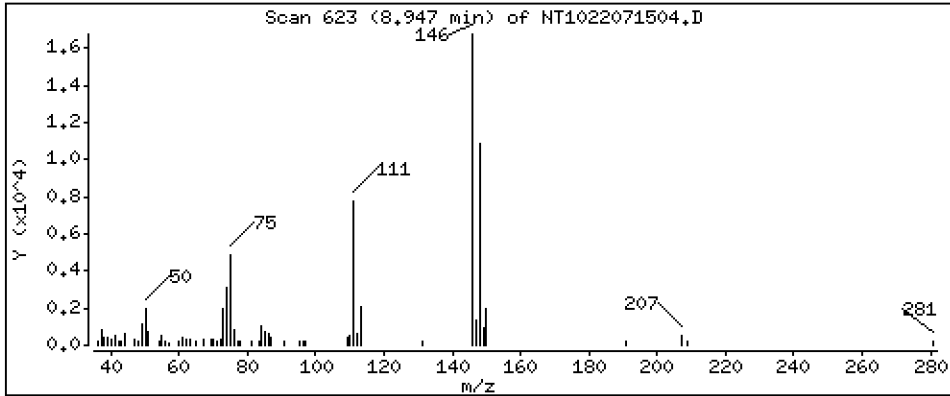
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,2239 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

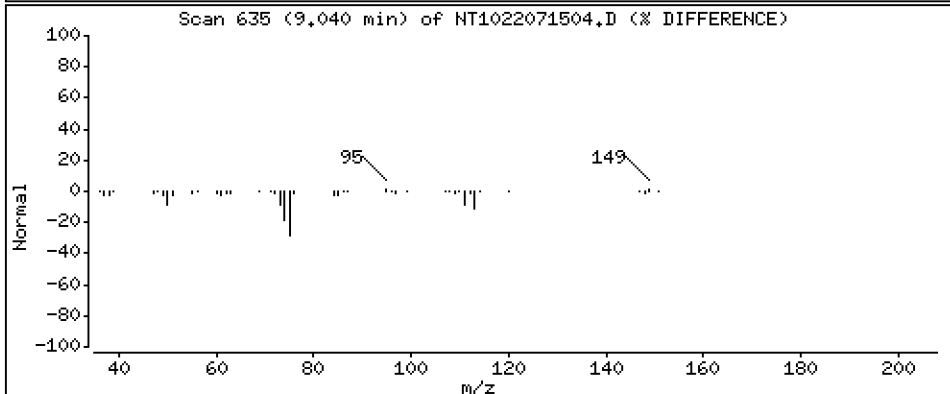
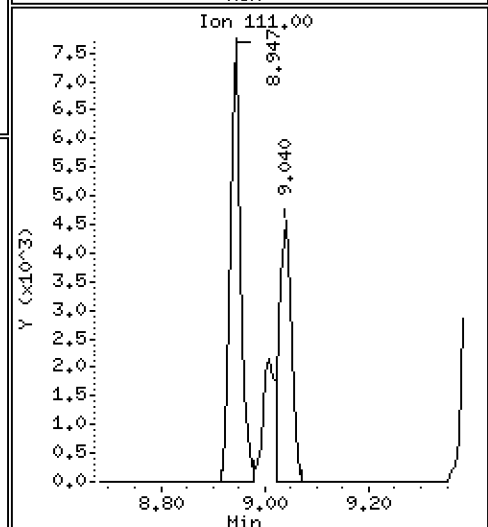
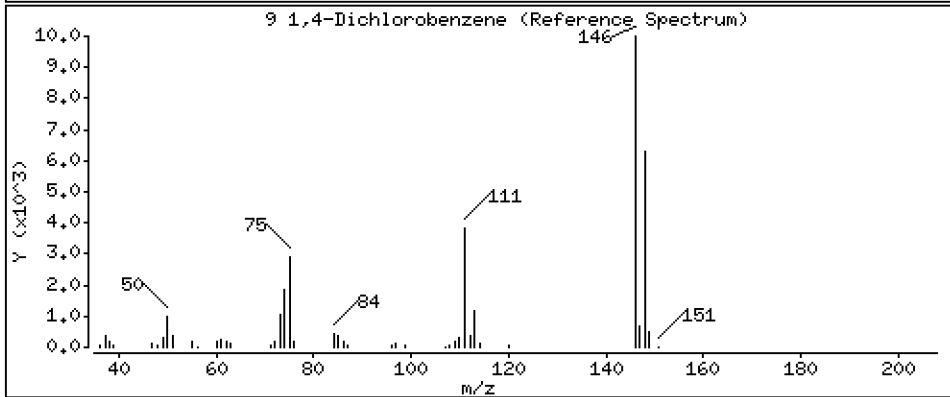
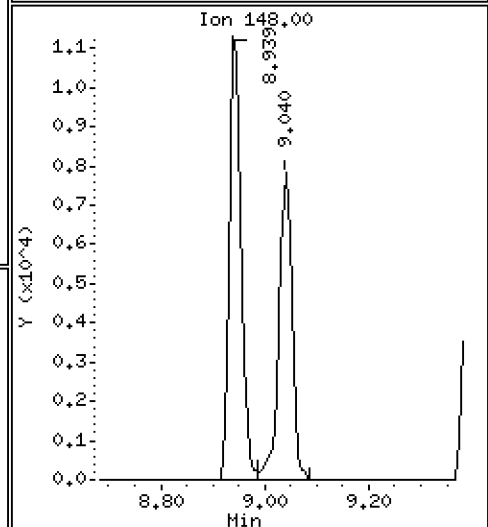
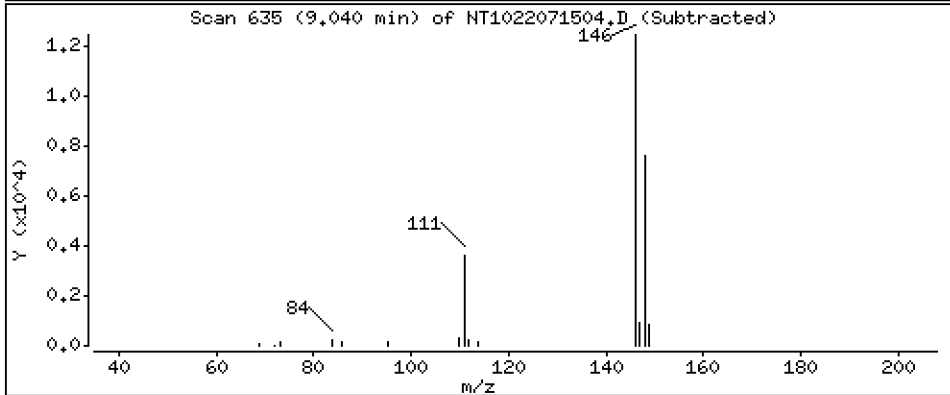
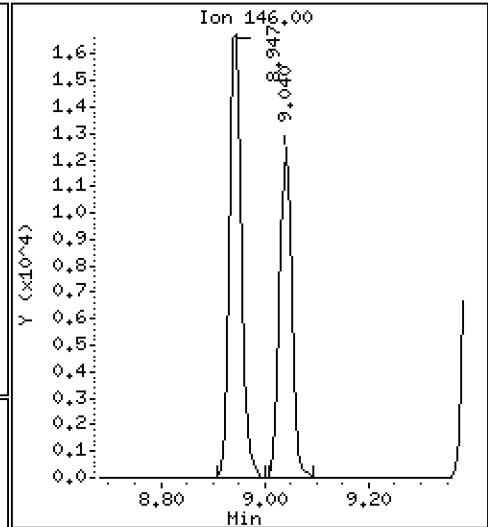
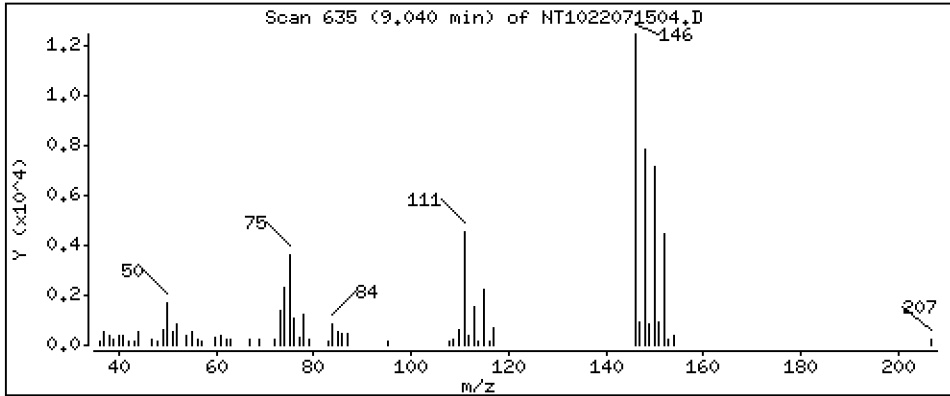
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 0.1954 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

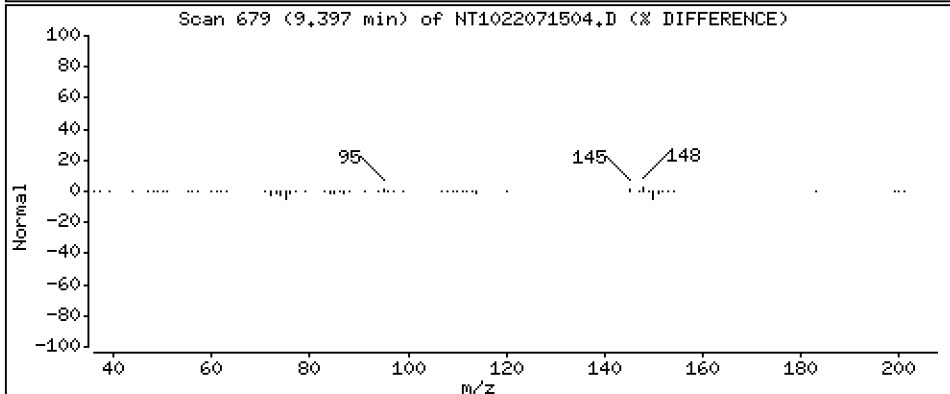
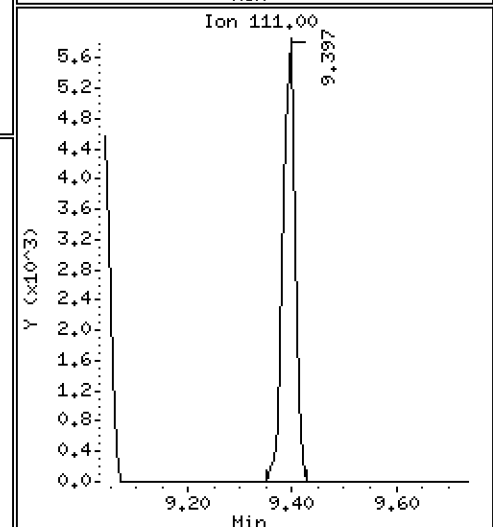
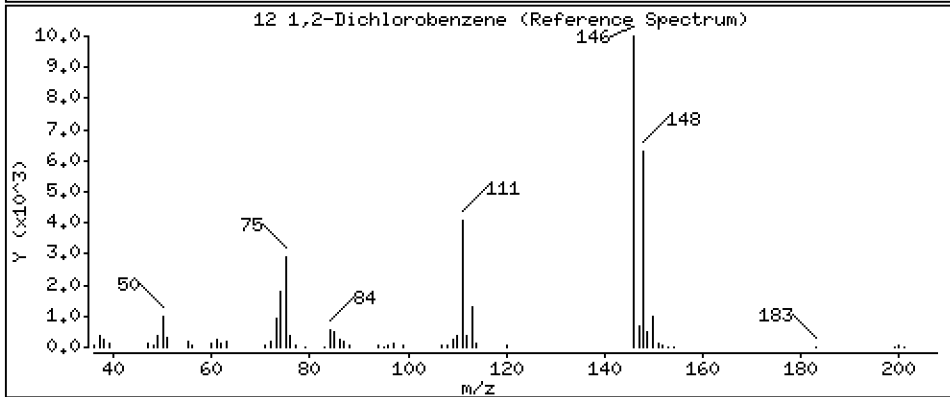
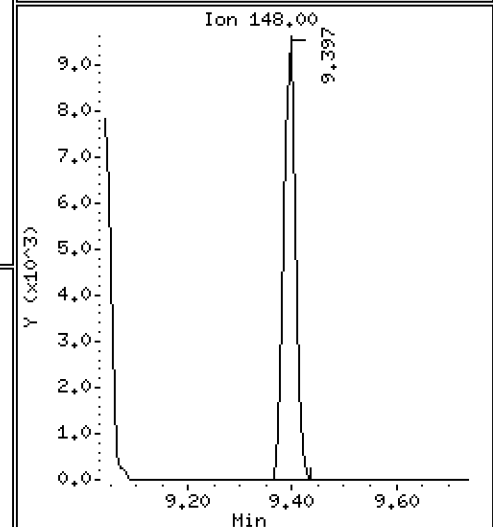
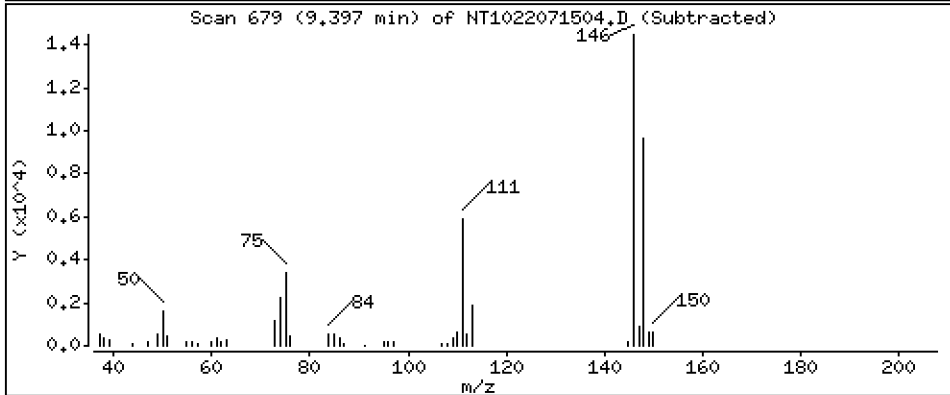
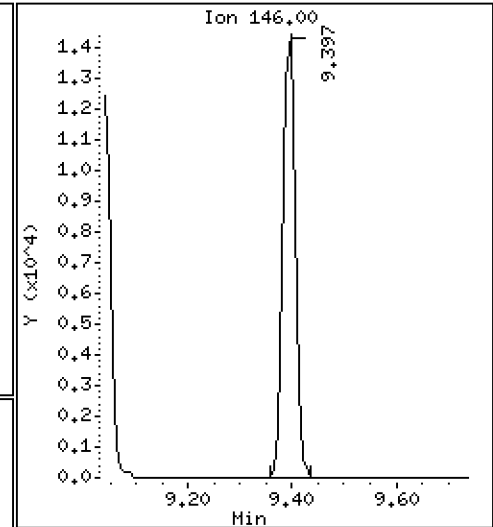
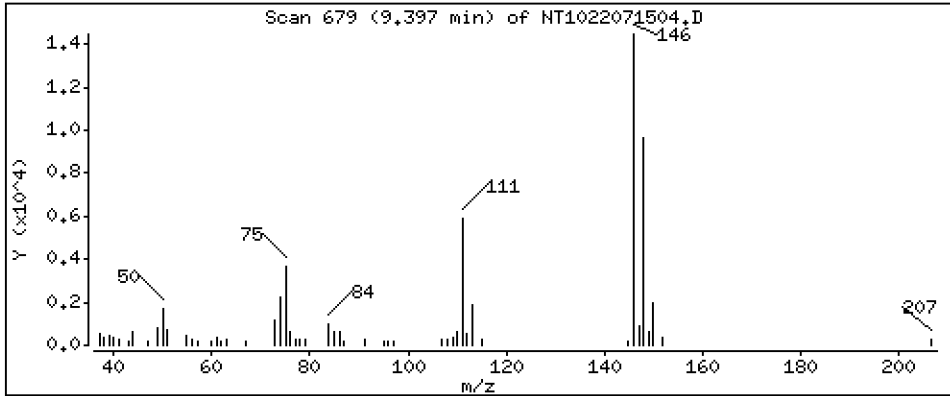
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2151 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

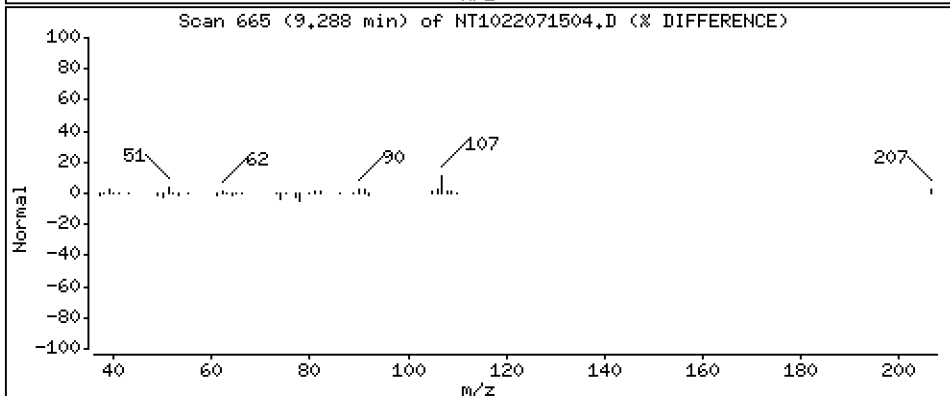
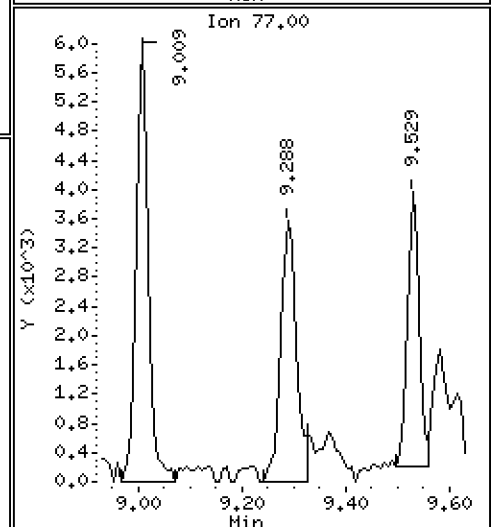
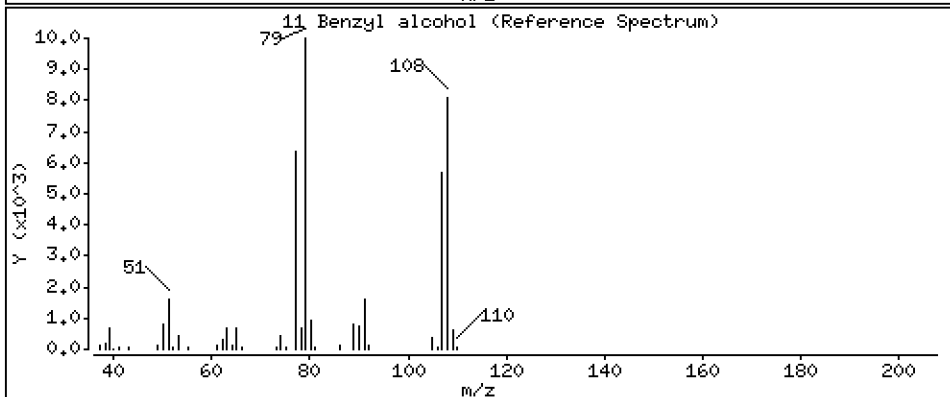
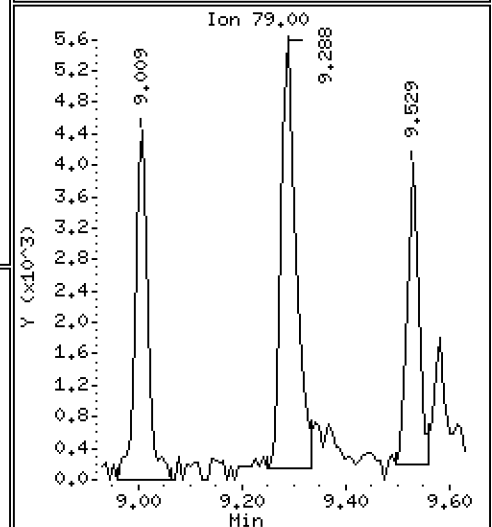
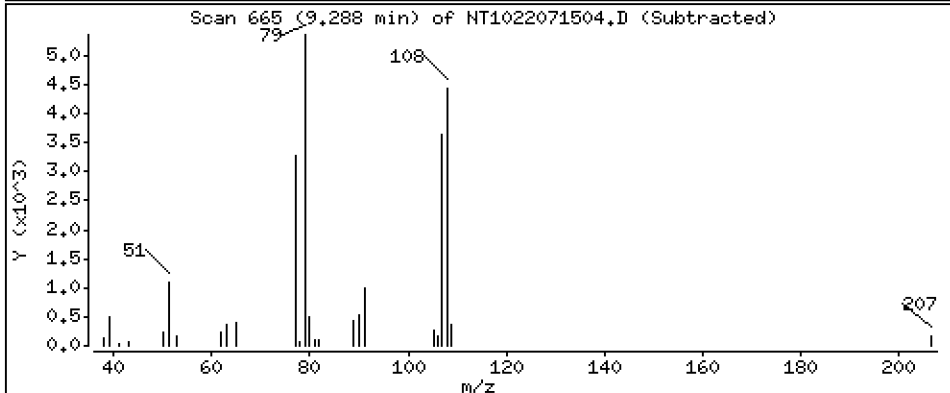
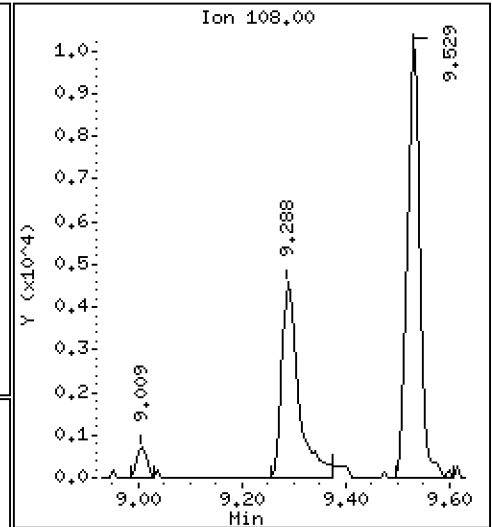
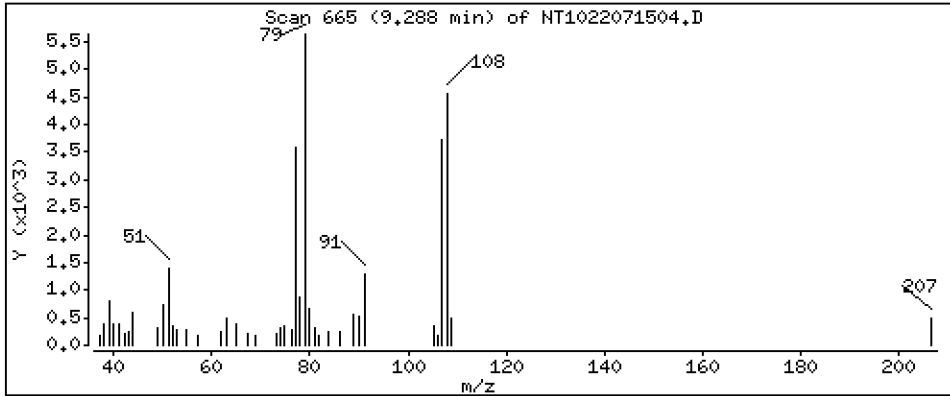
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1730 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

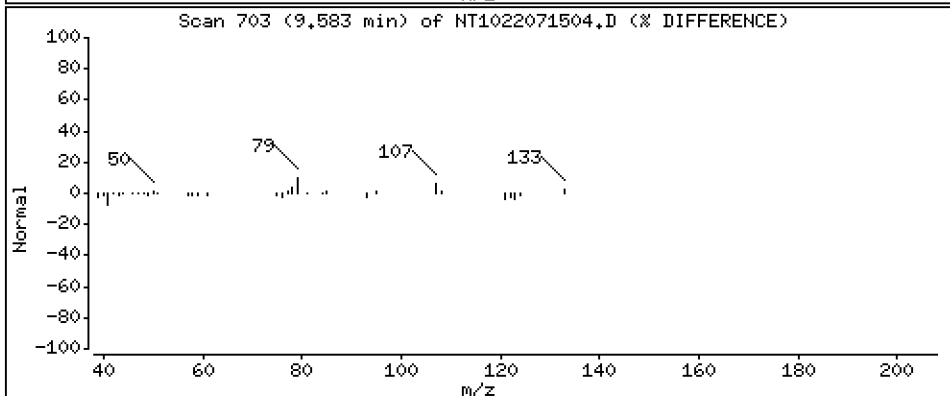
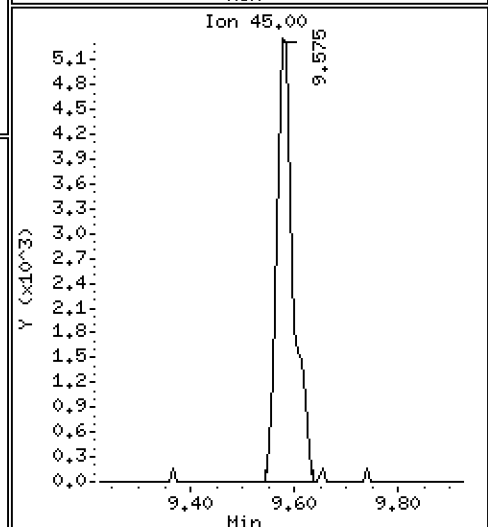
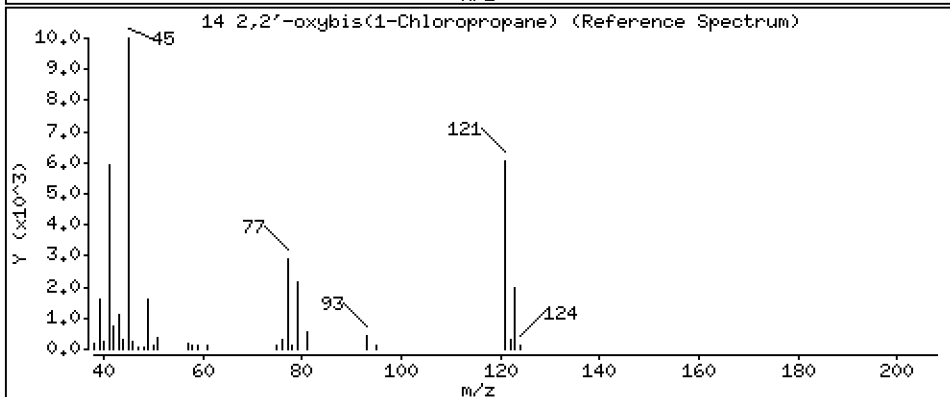
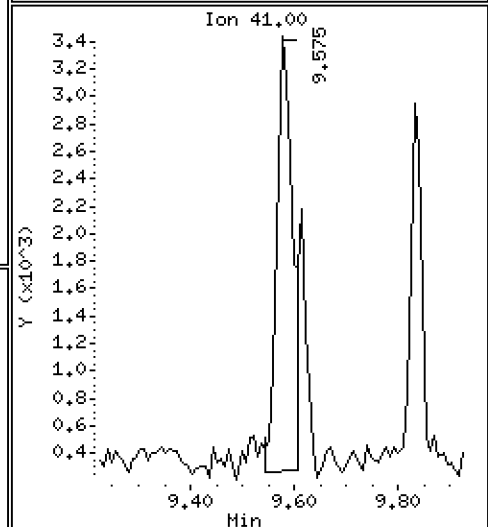
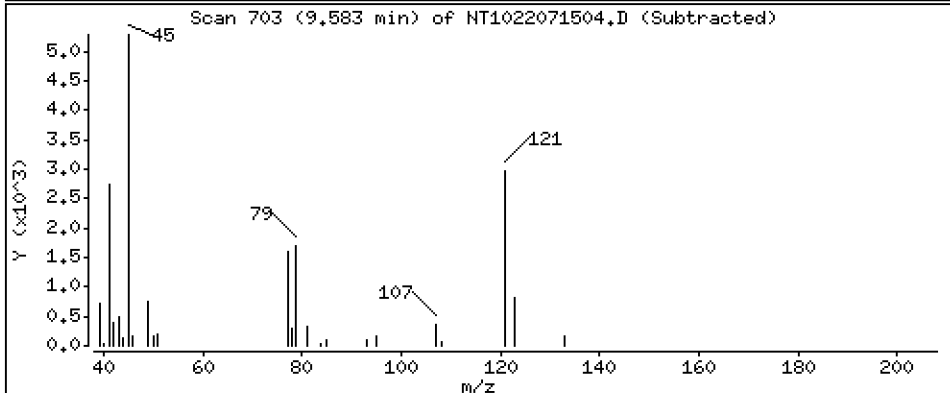
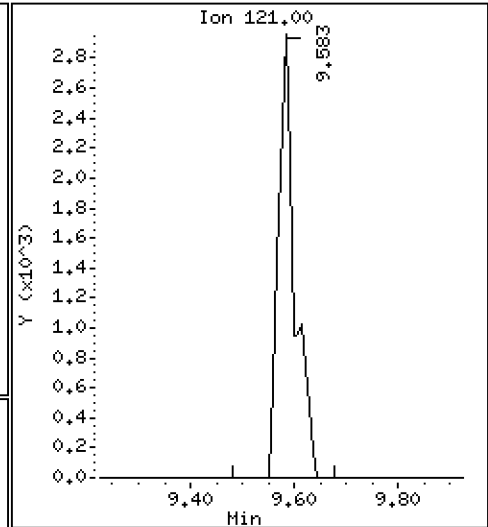
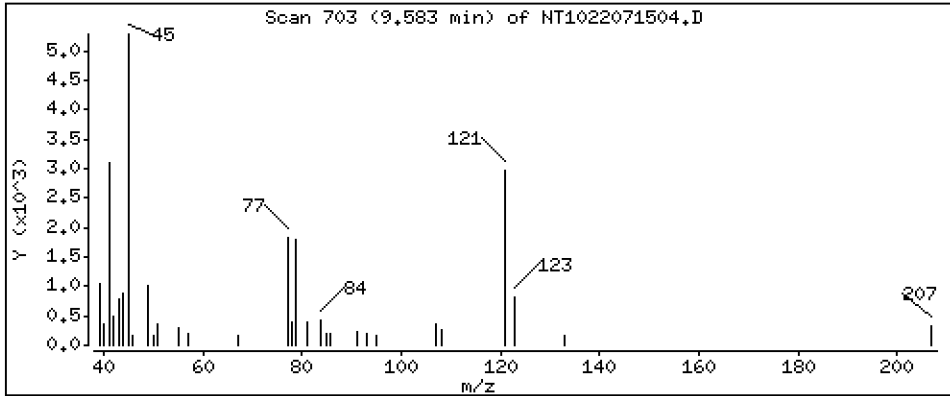
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2585 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

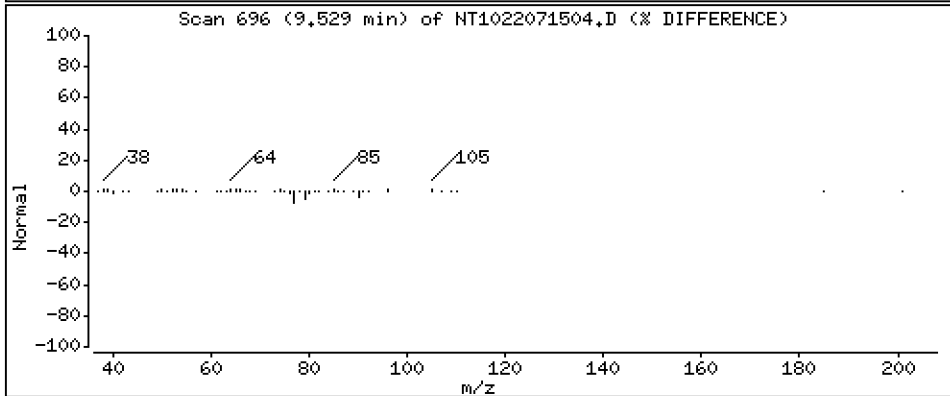
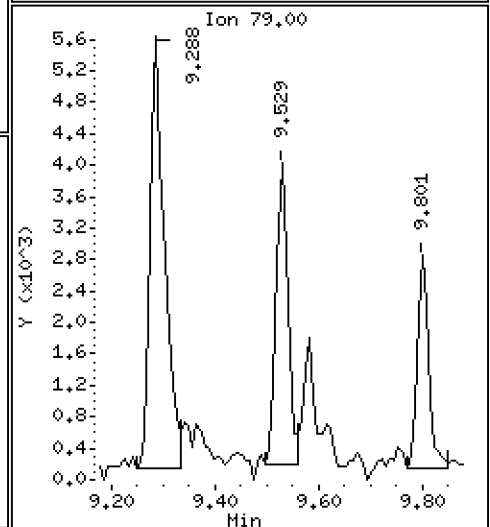
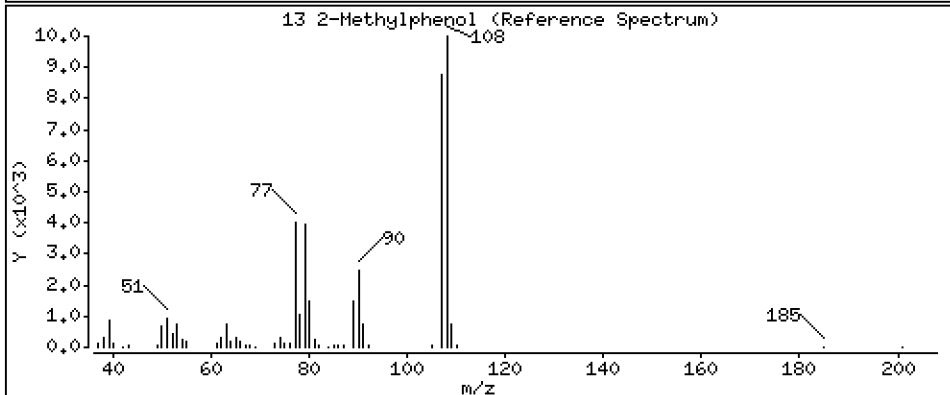
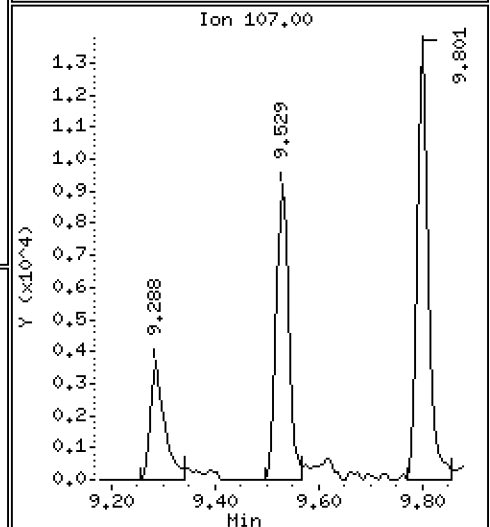
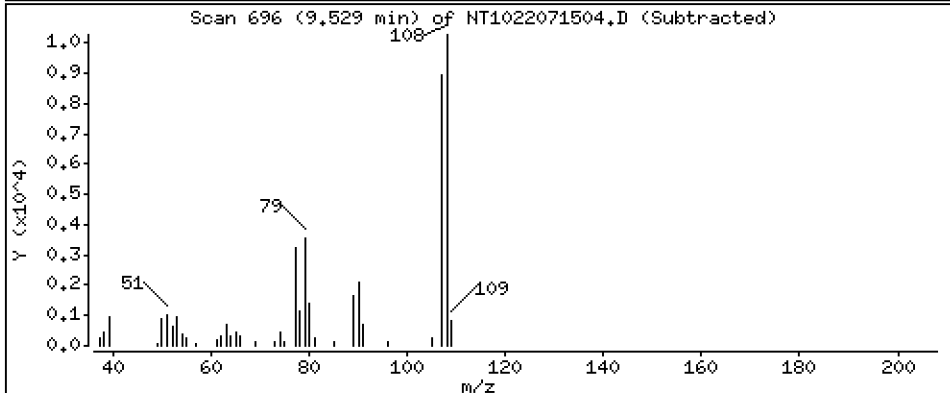
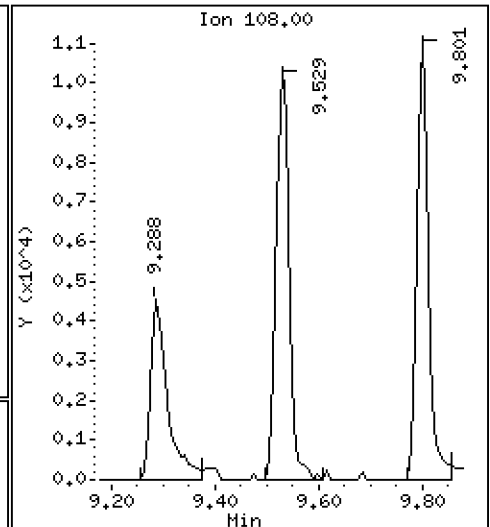
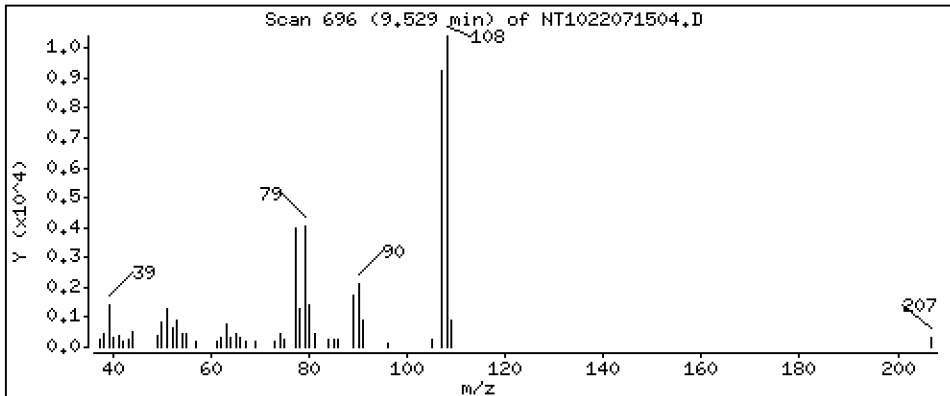
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1910 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

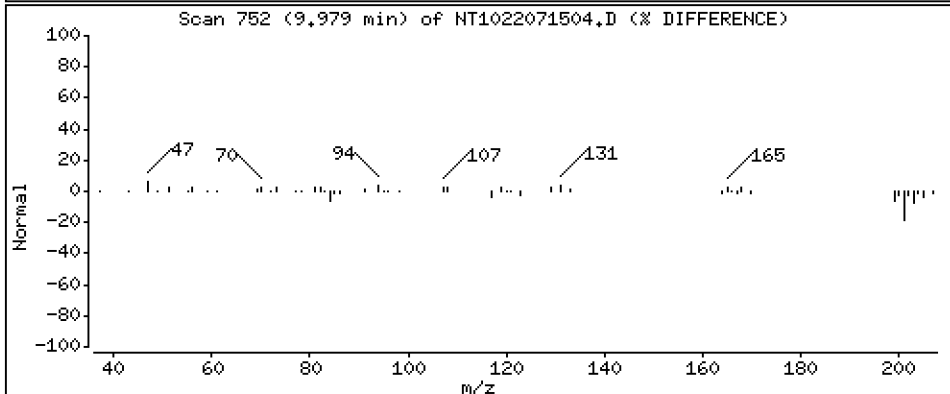
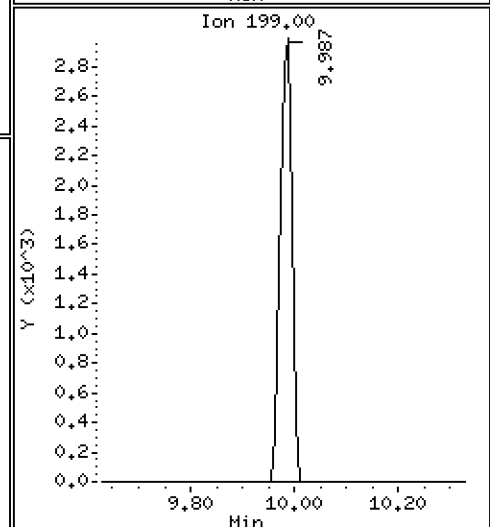
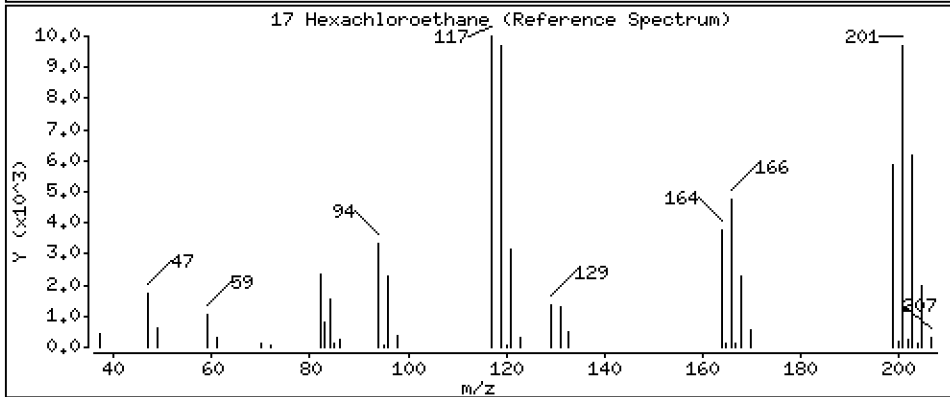
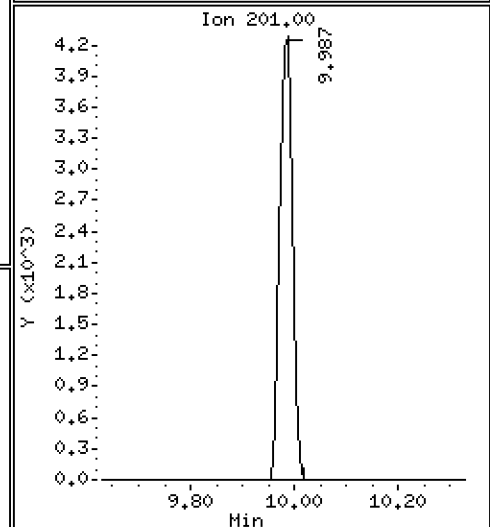
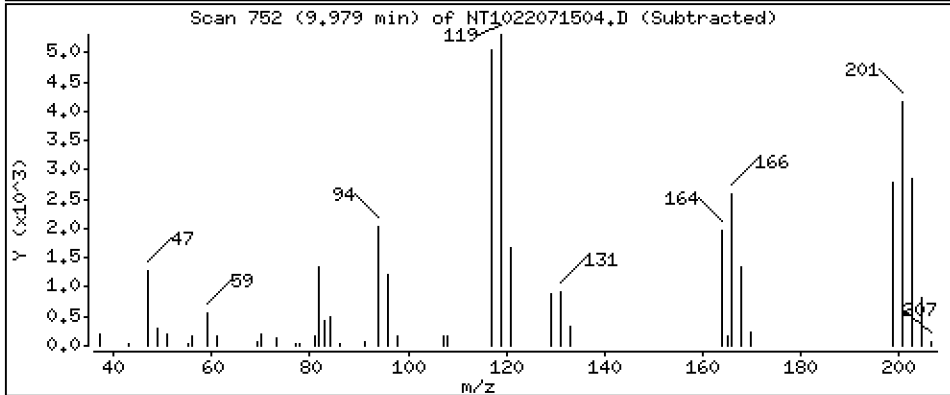
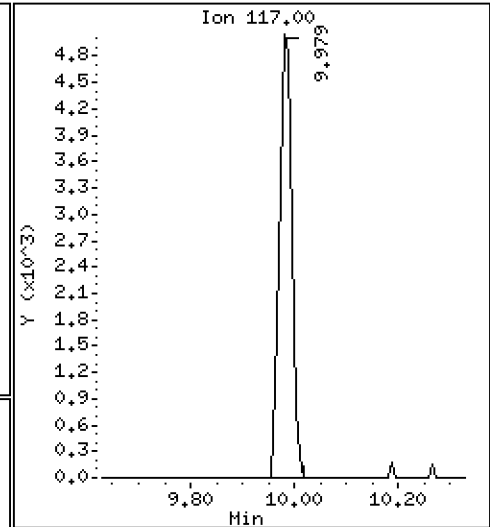
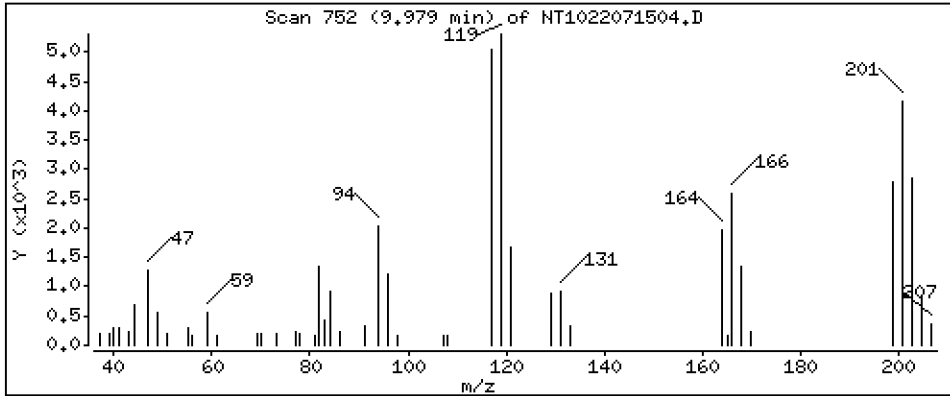
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1817 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

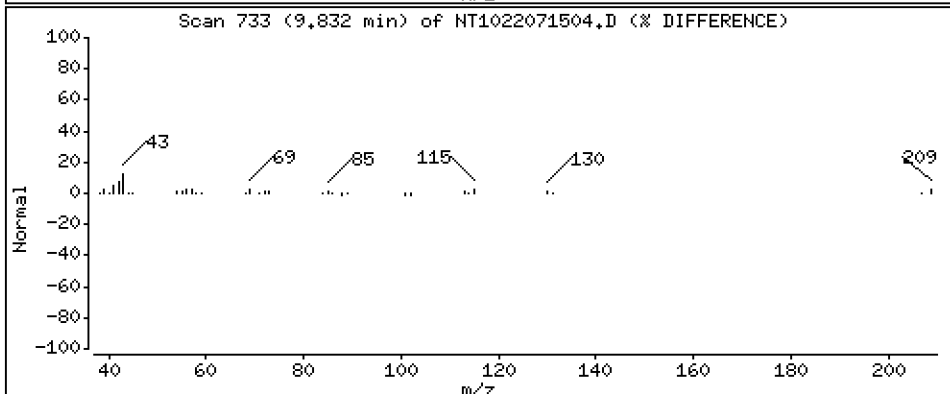
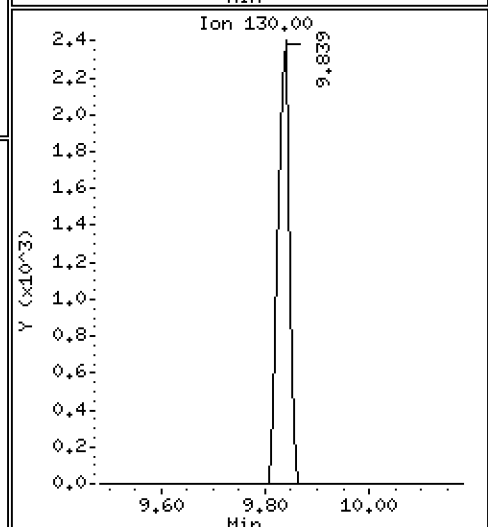
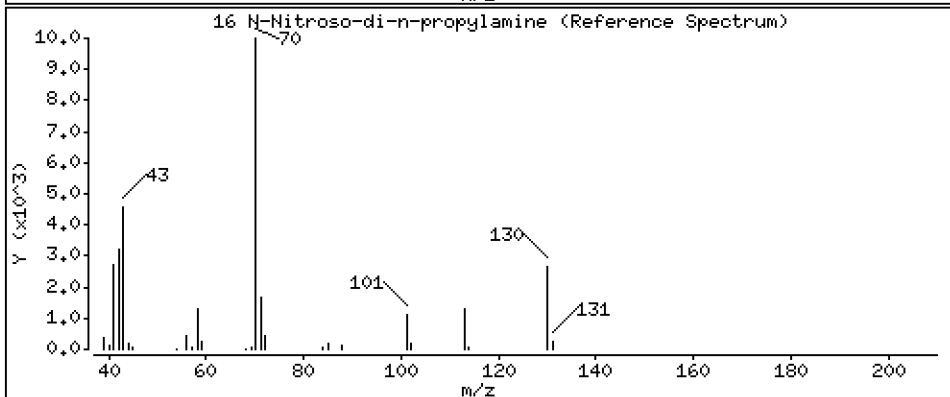
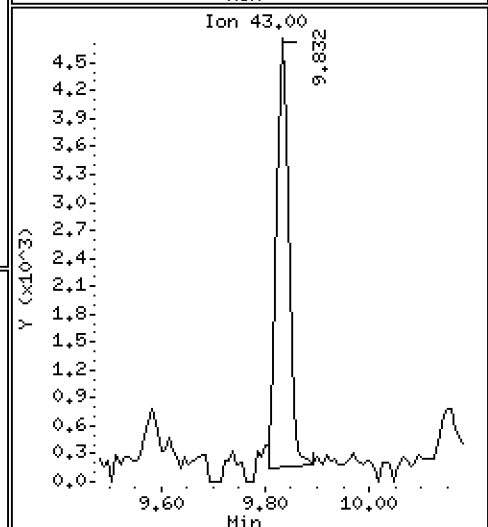
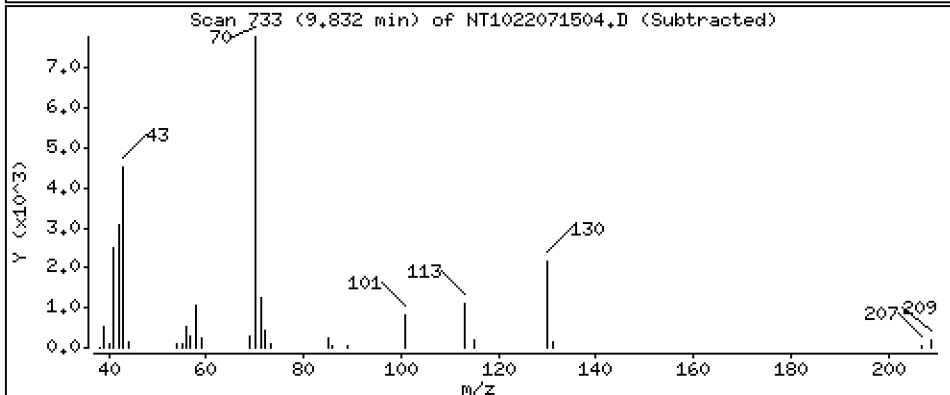
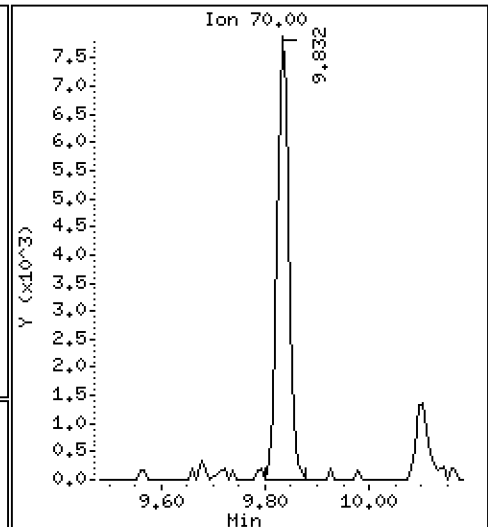
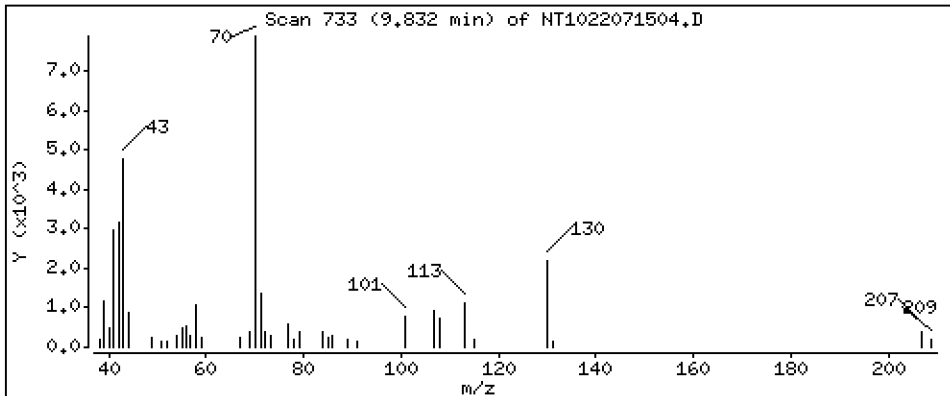
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.1870 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

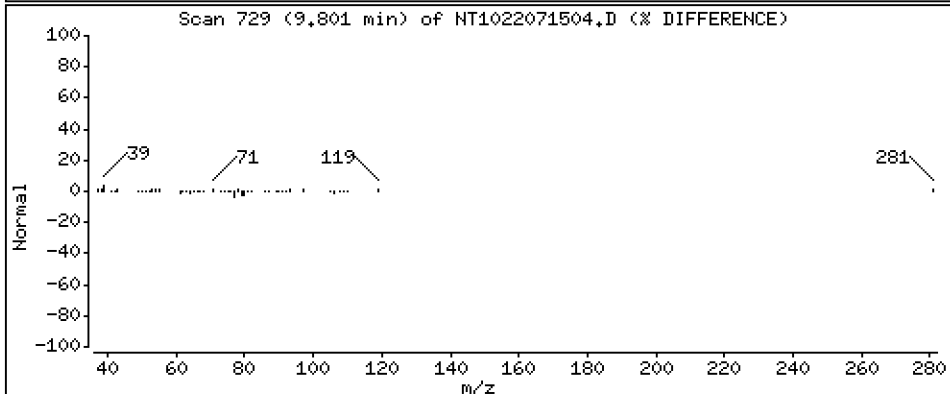
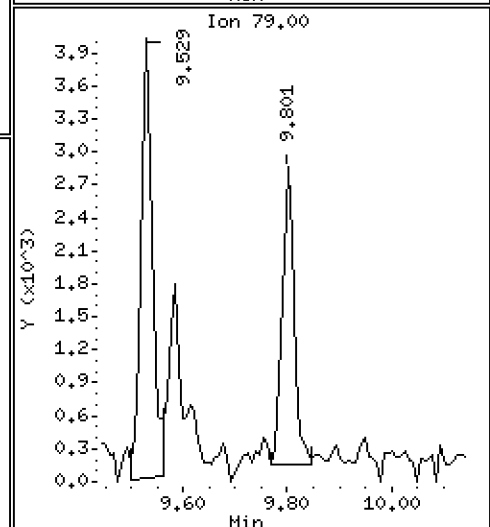
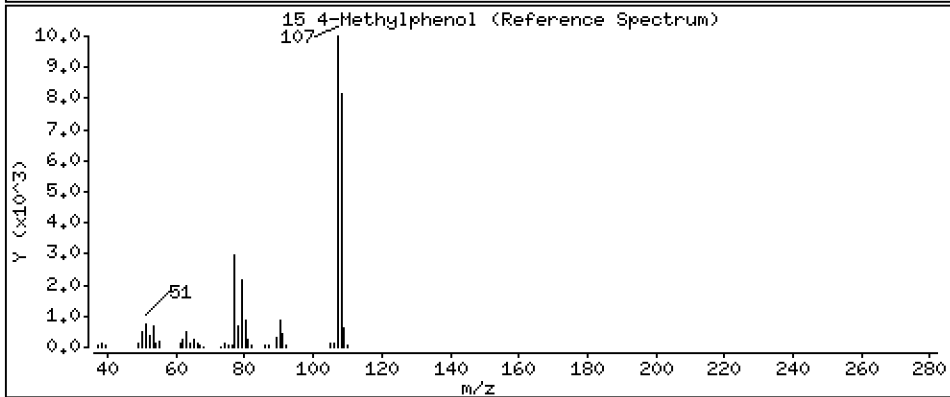
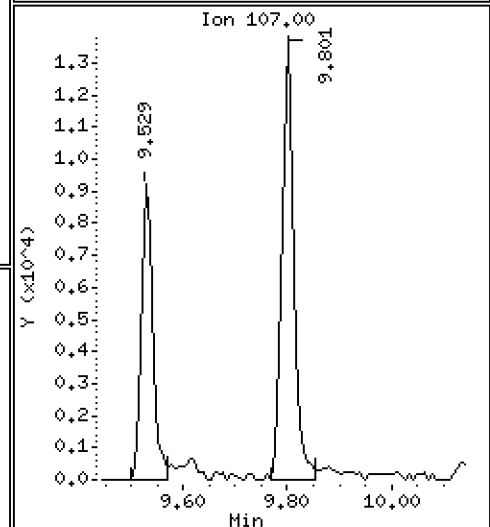
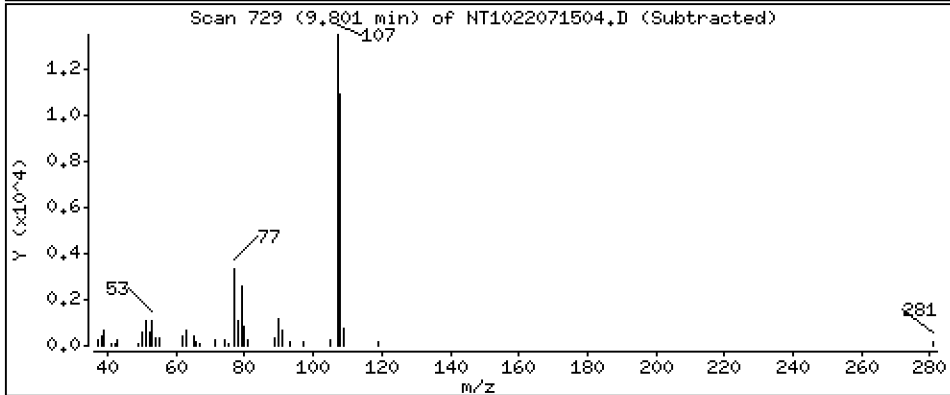
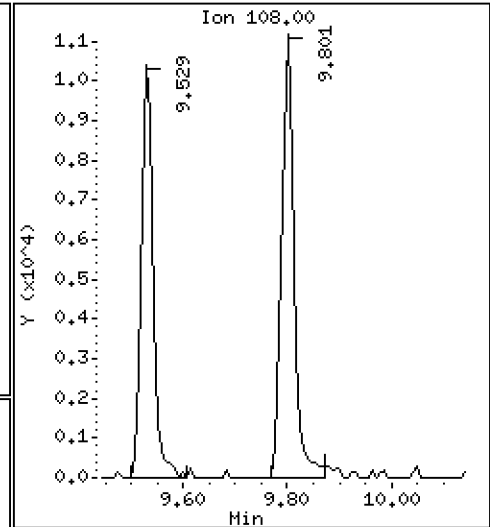
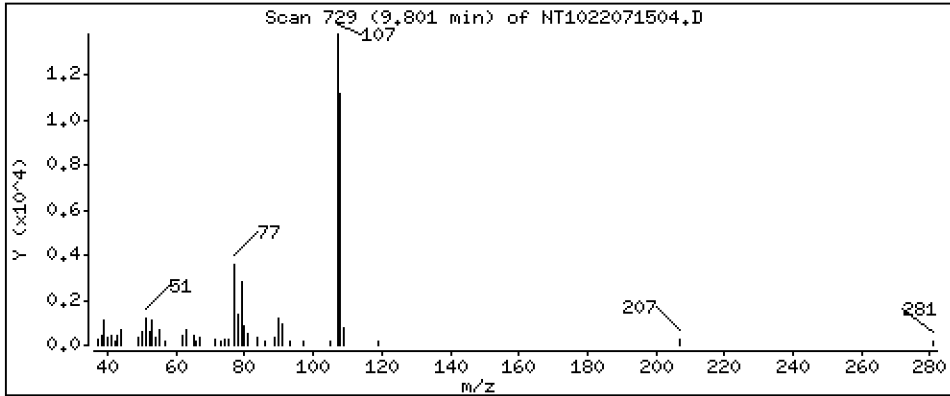
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1889 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

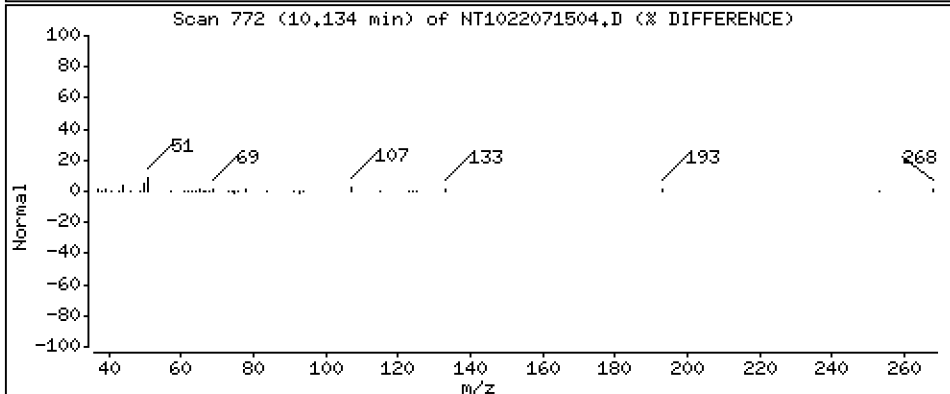
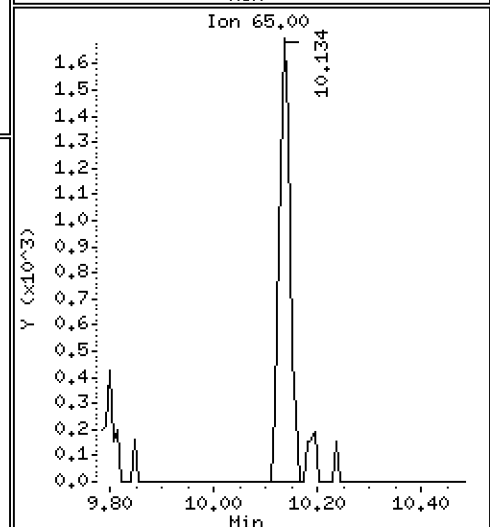
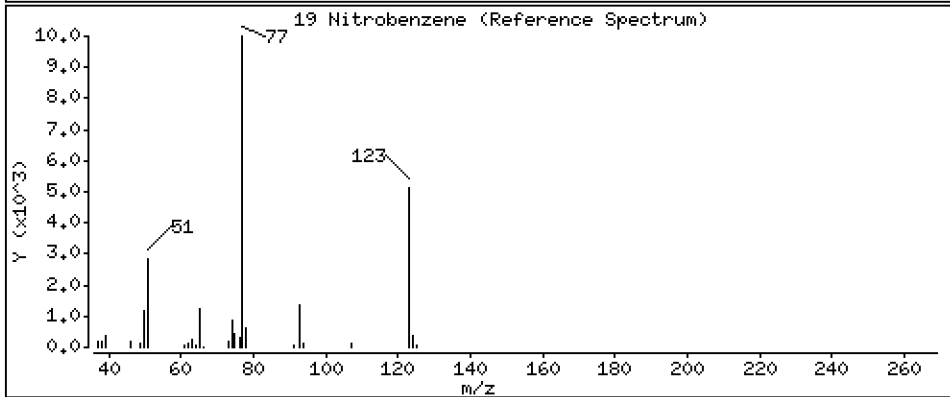
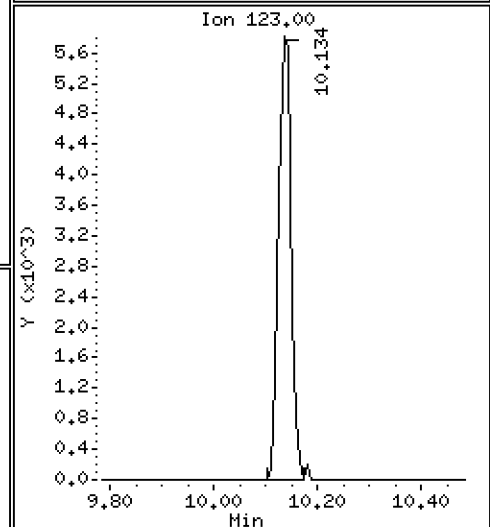
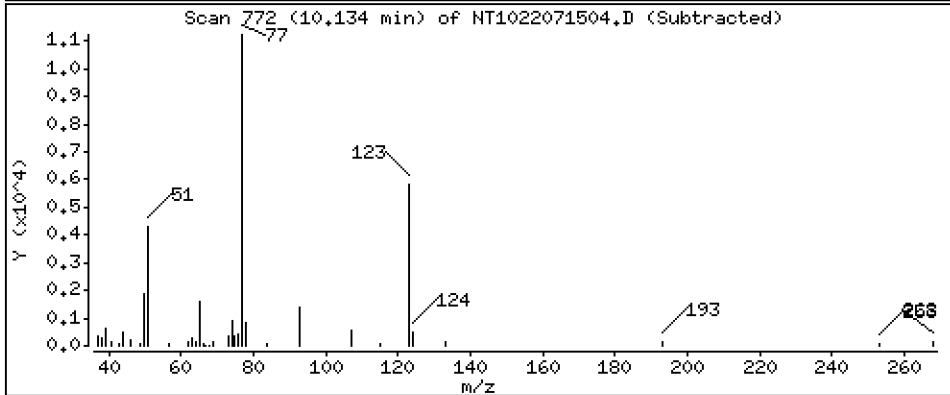
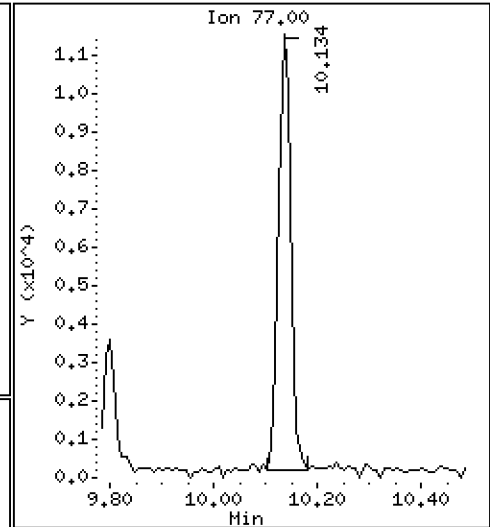
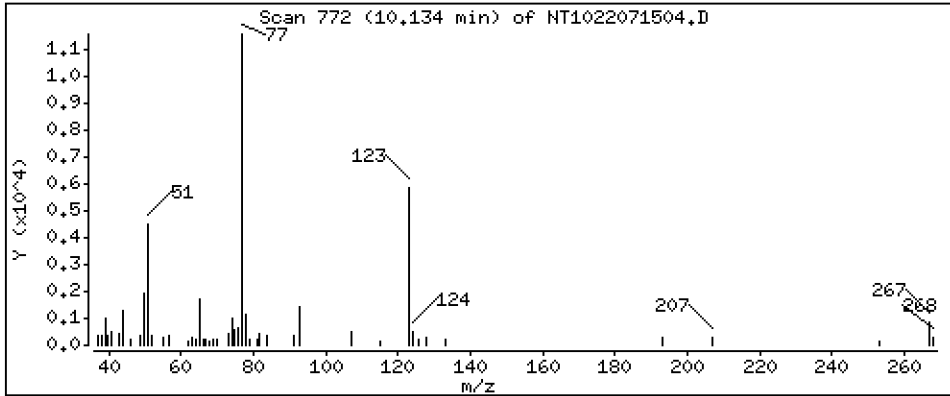
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,1752 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

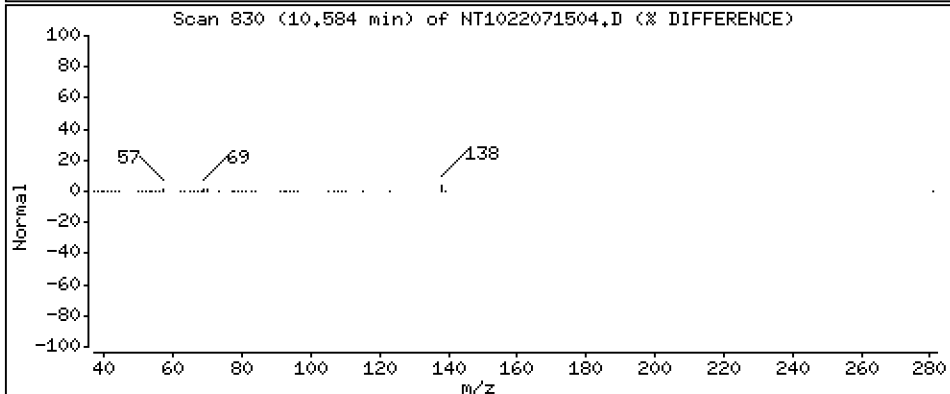
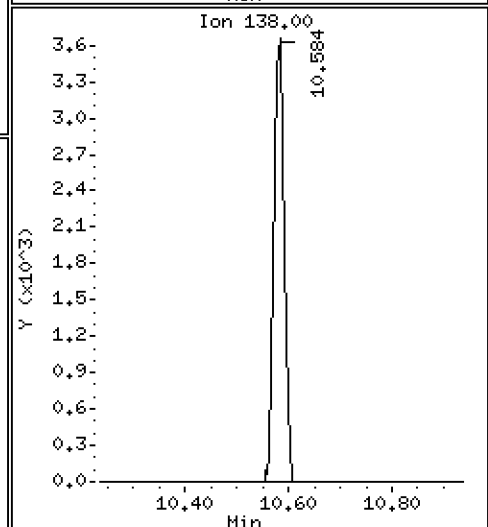
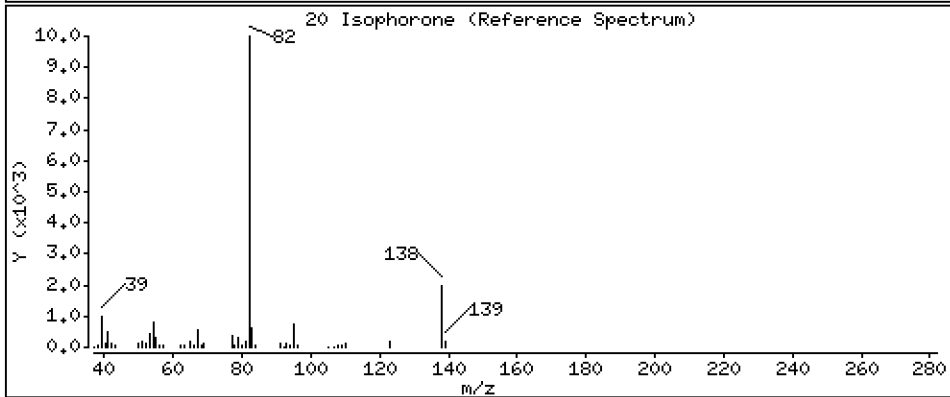
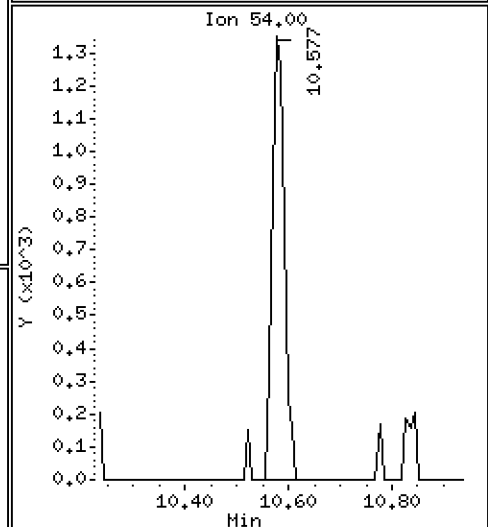
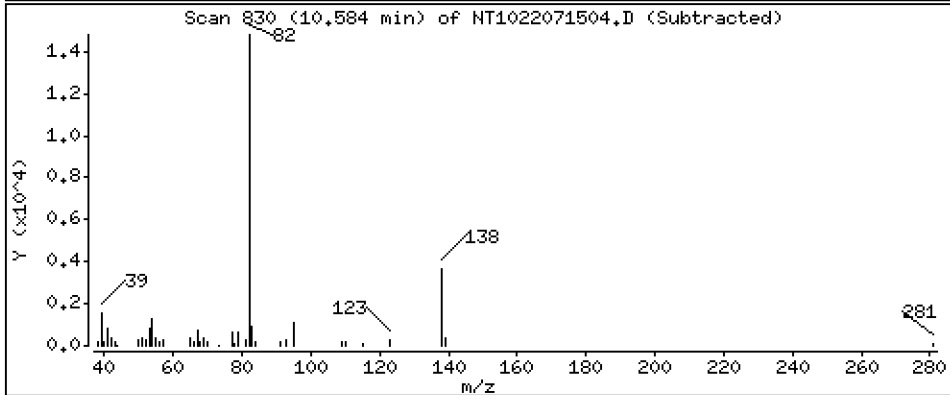
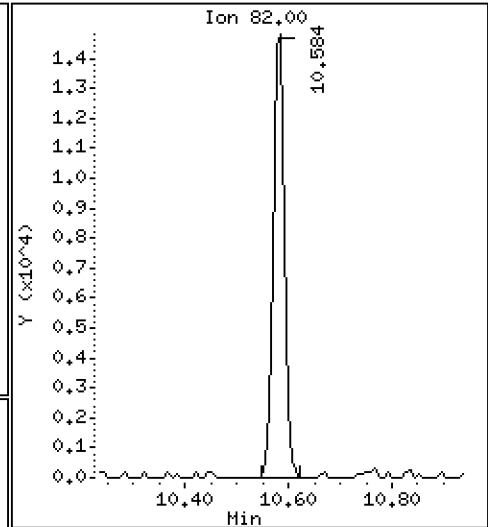
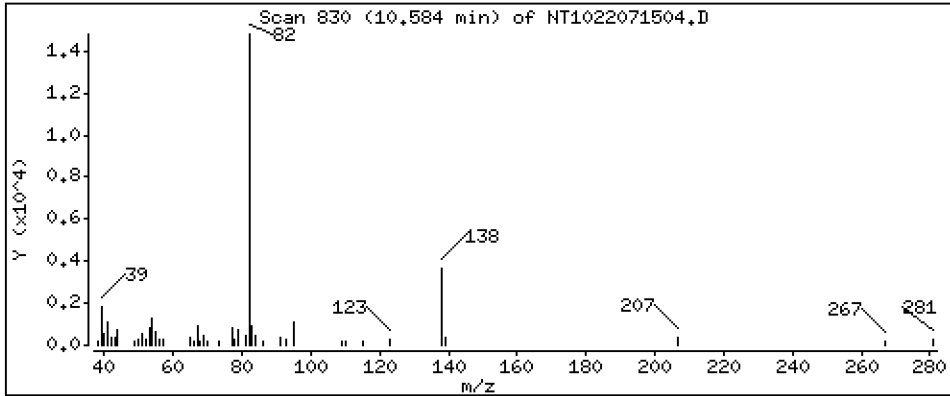
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,1605 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

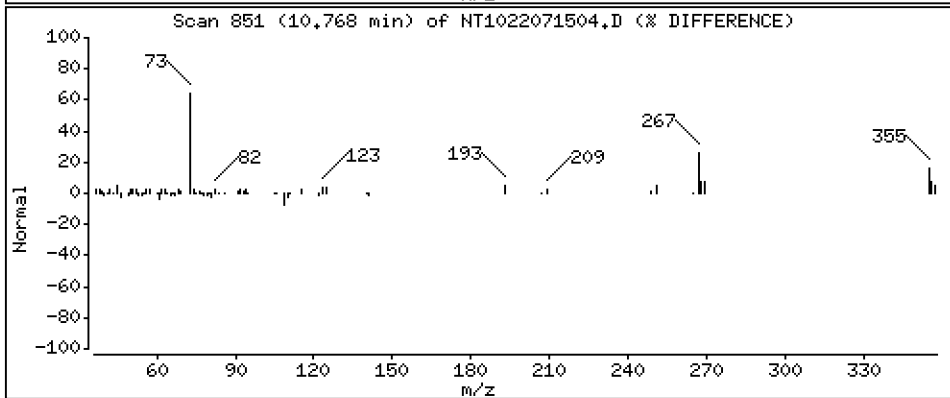
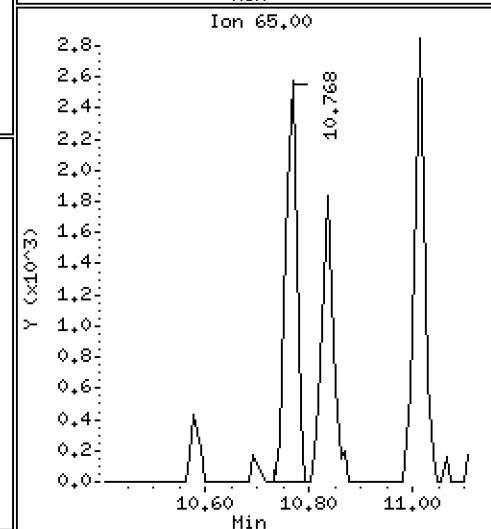
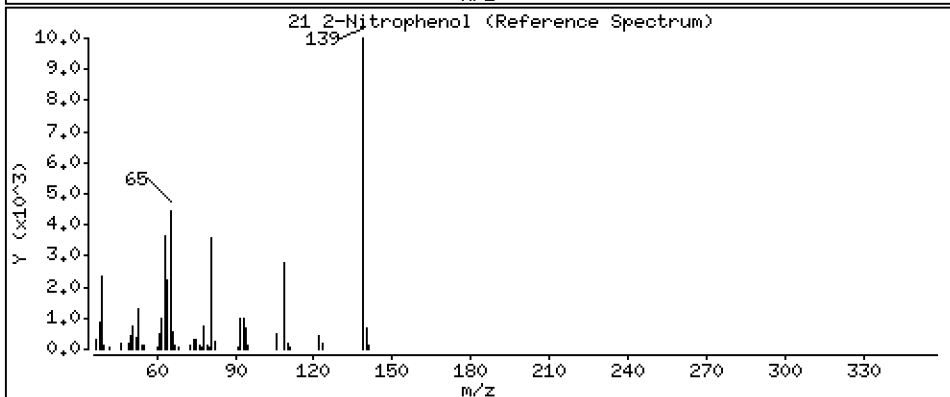
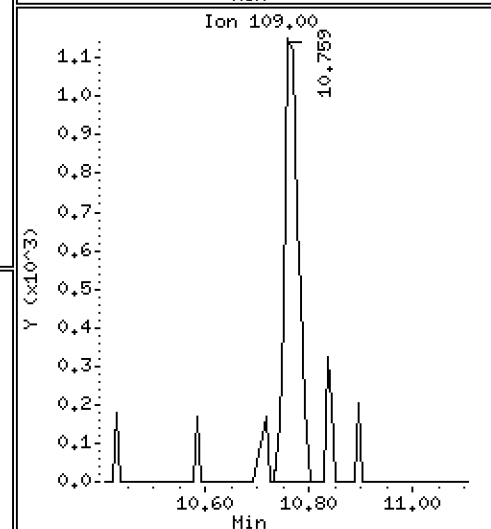
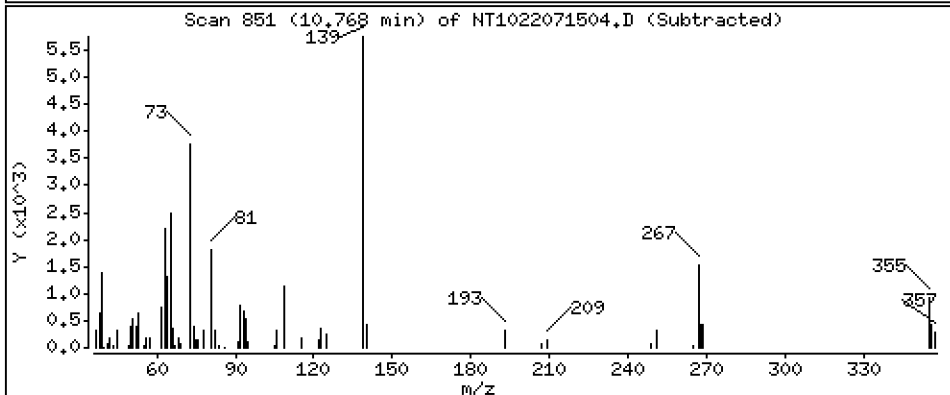
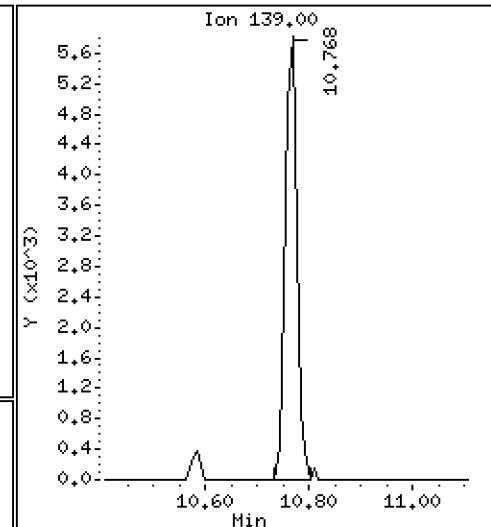
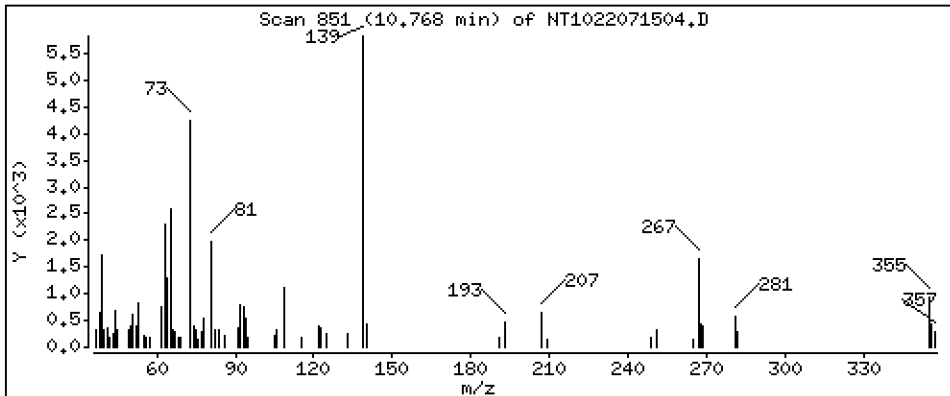
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1443 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

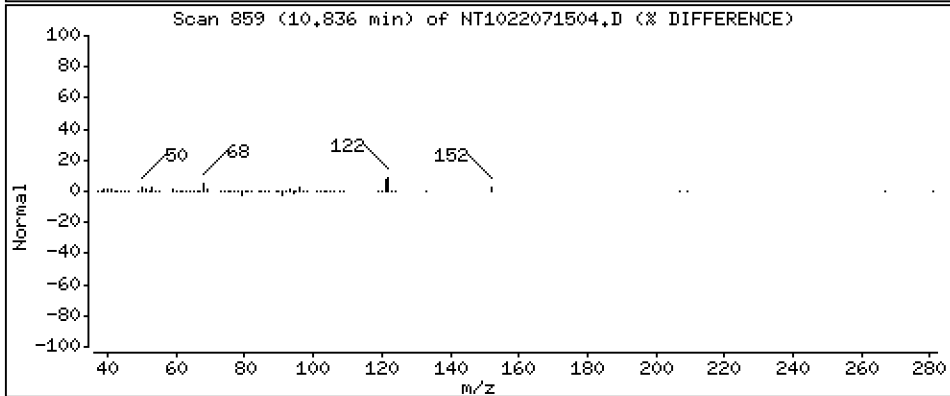
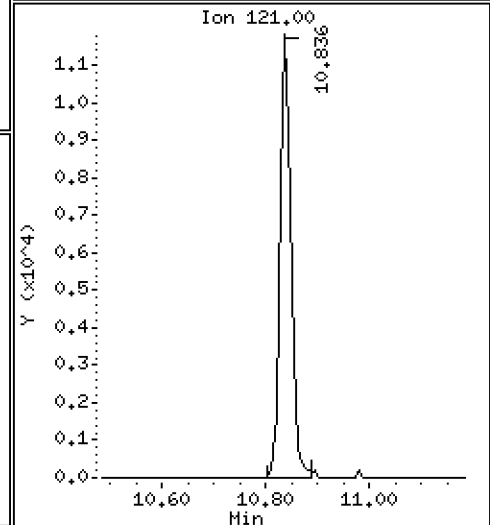
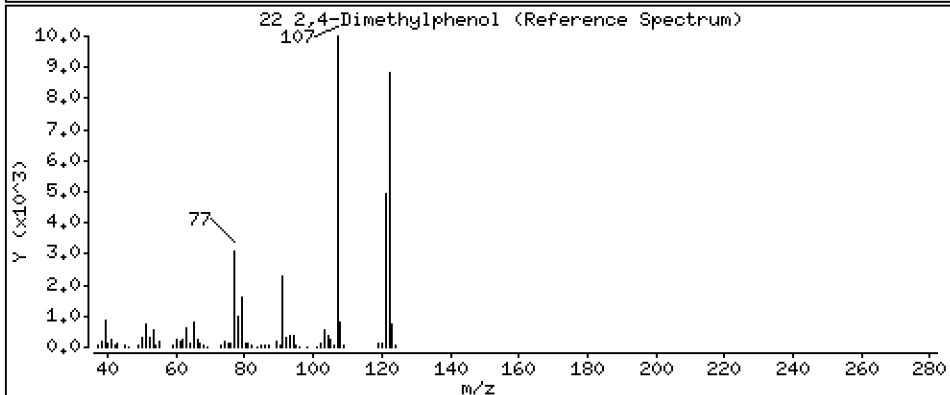
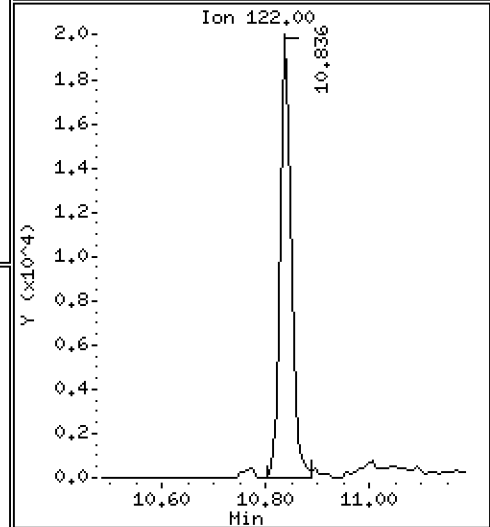
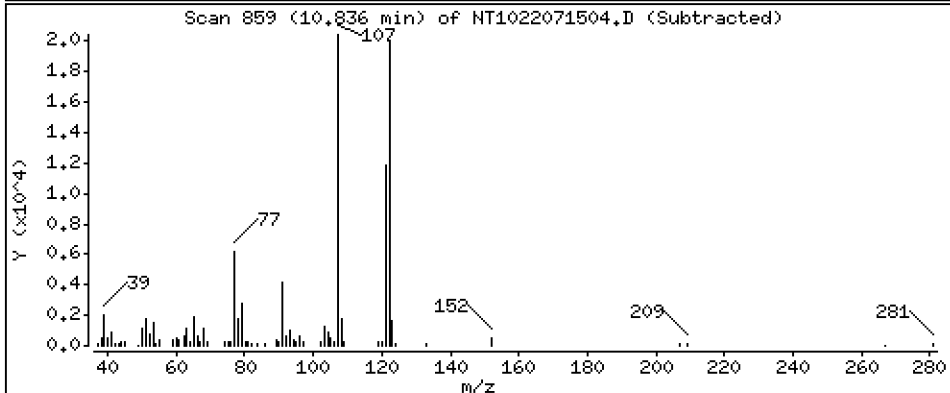
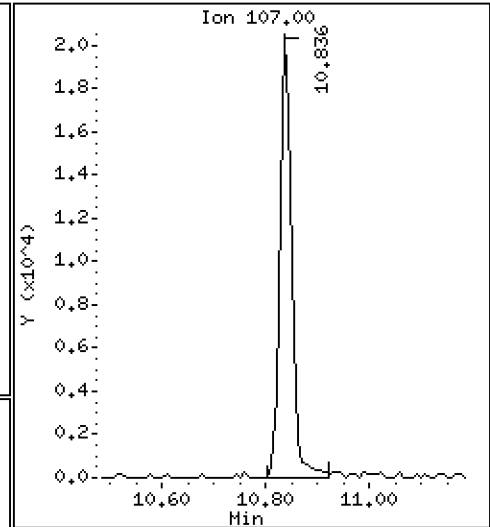
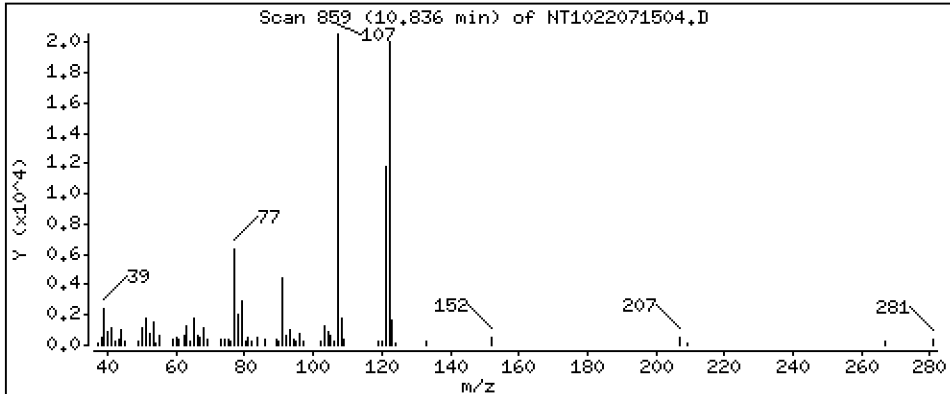
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4322 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

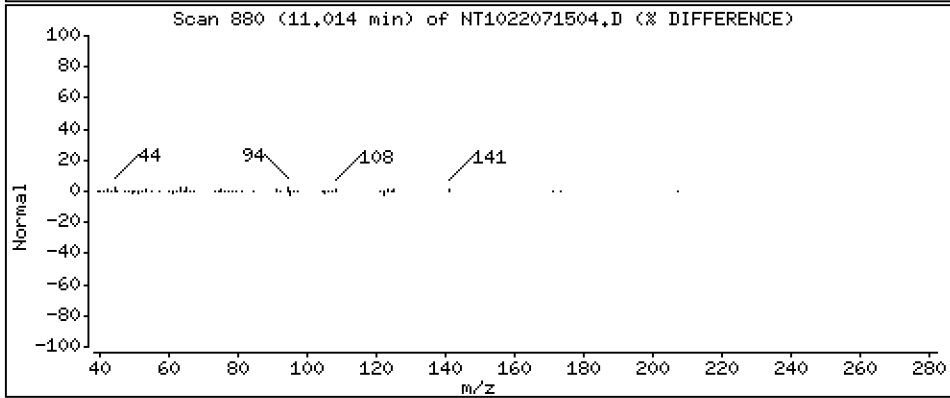
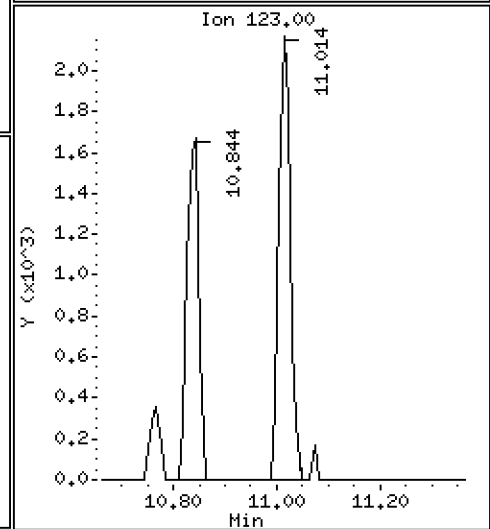
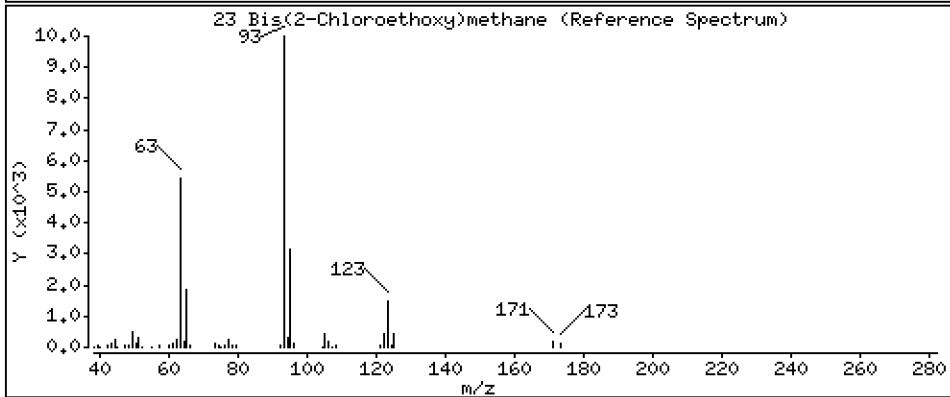
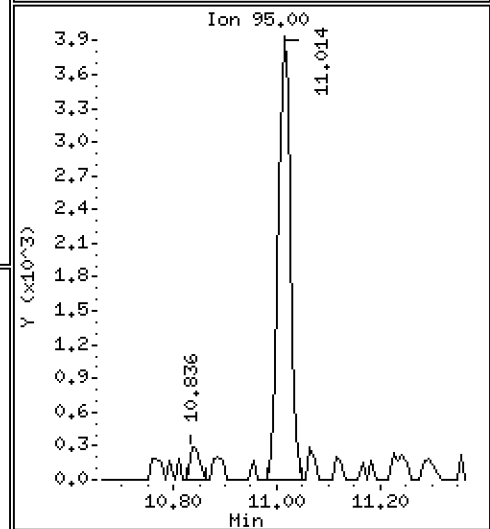
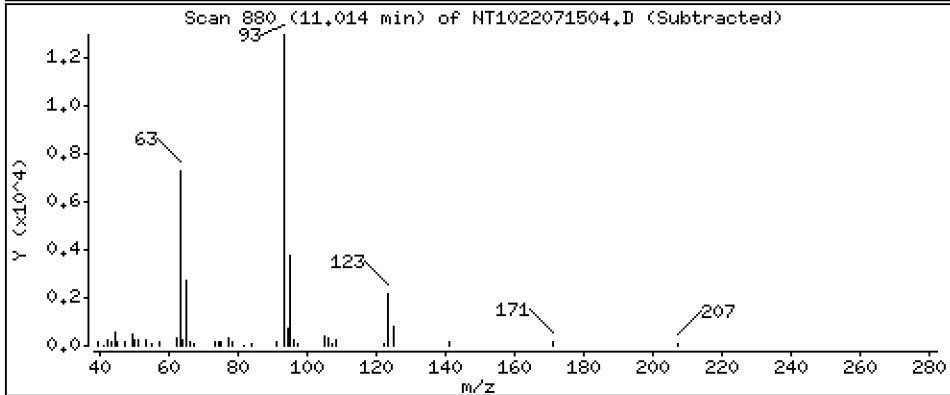
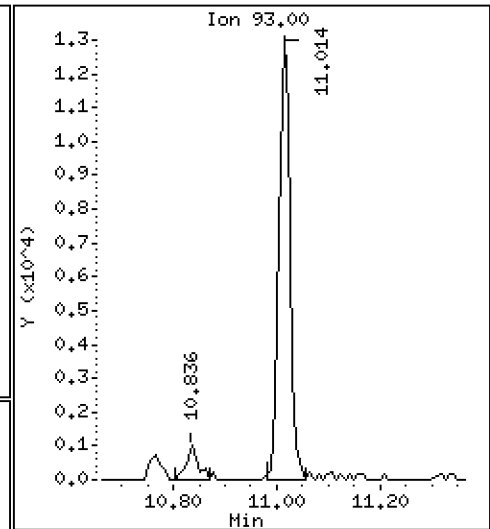
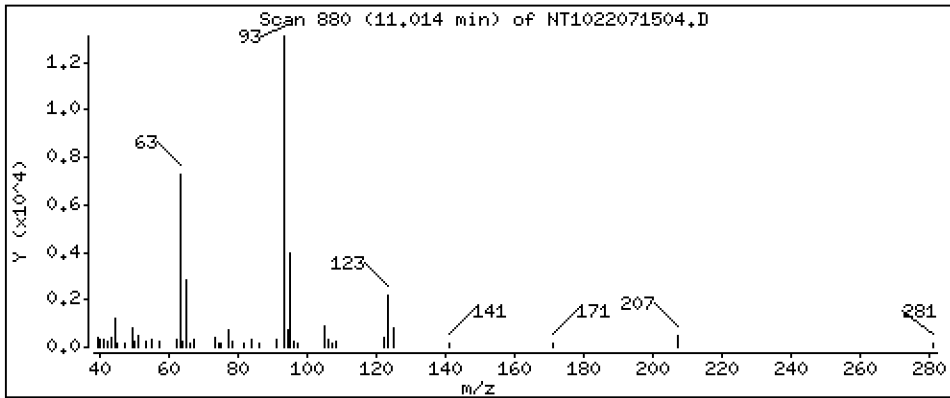
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,2240 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

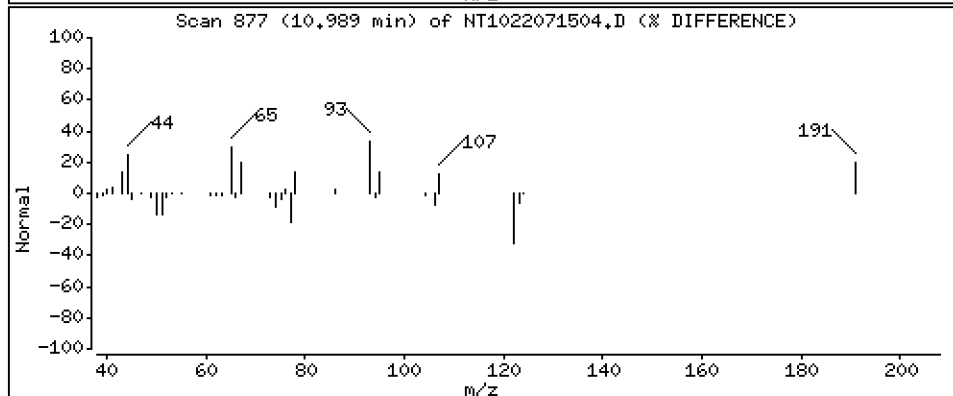
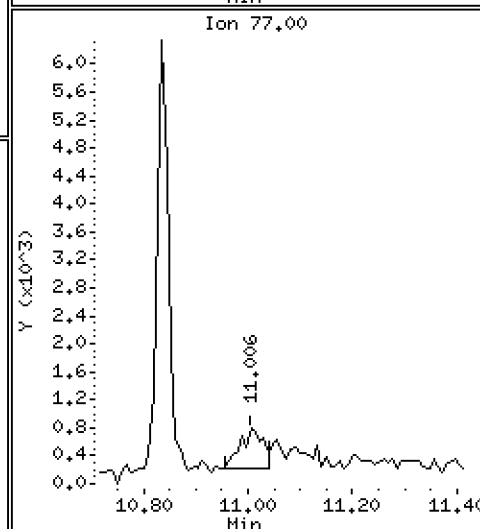
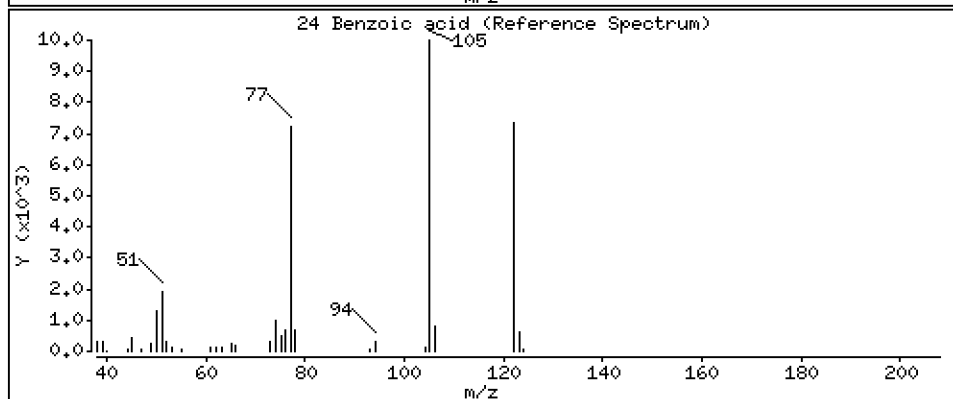
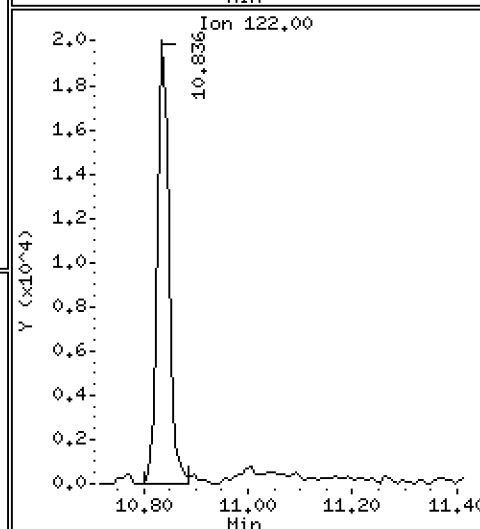
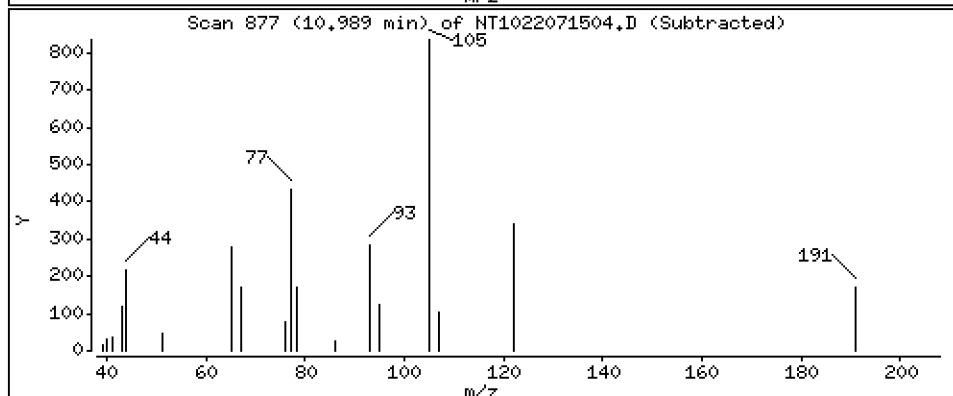
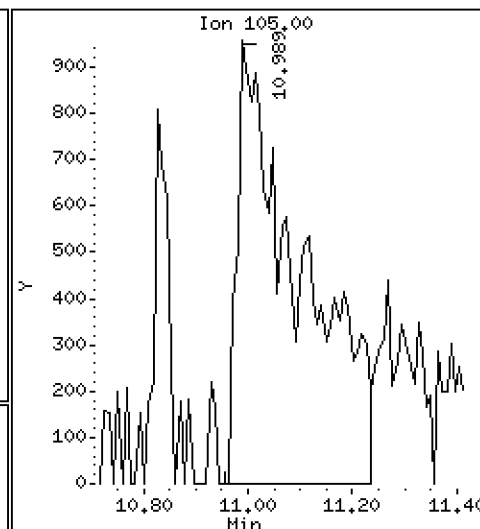
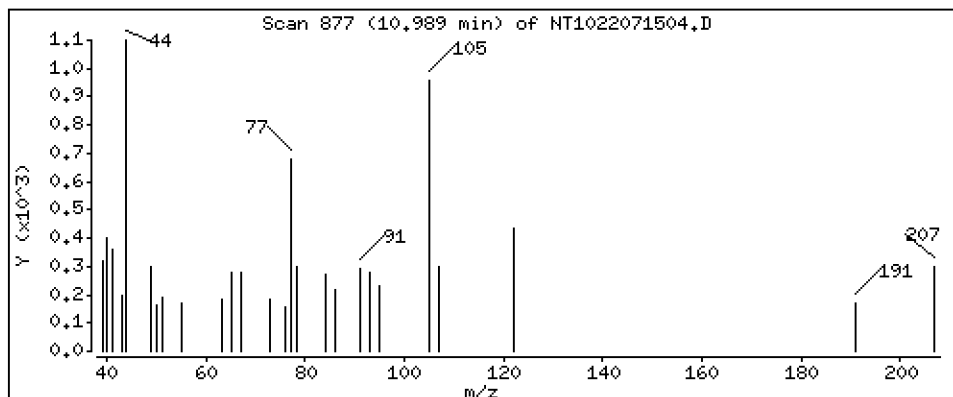
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,2005 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

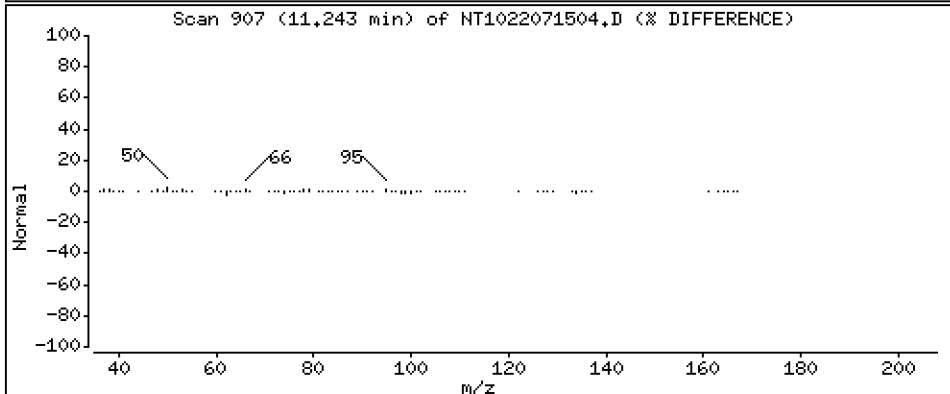
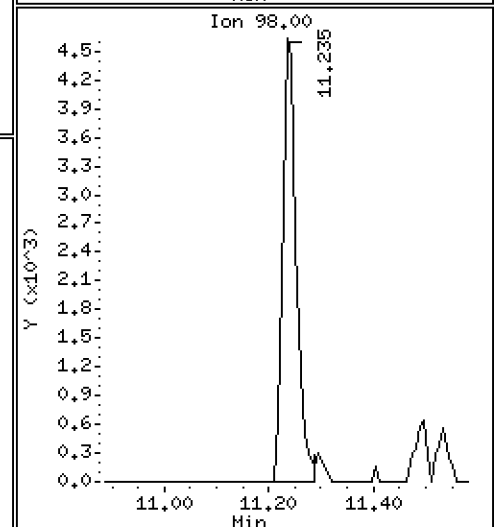
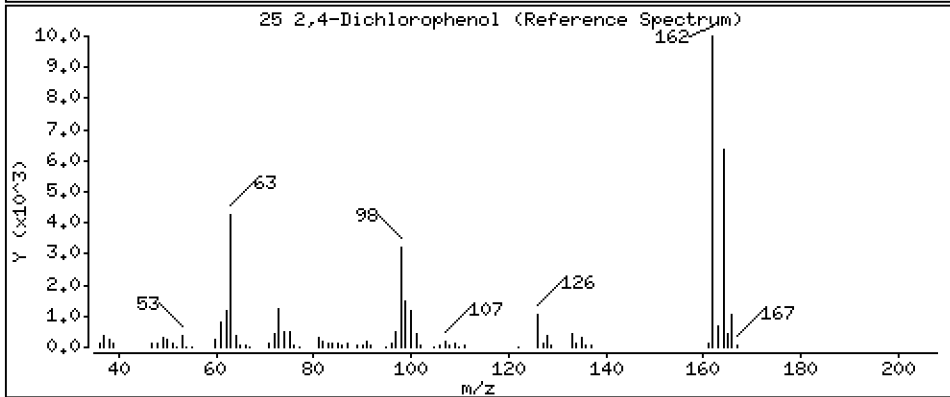
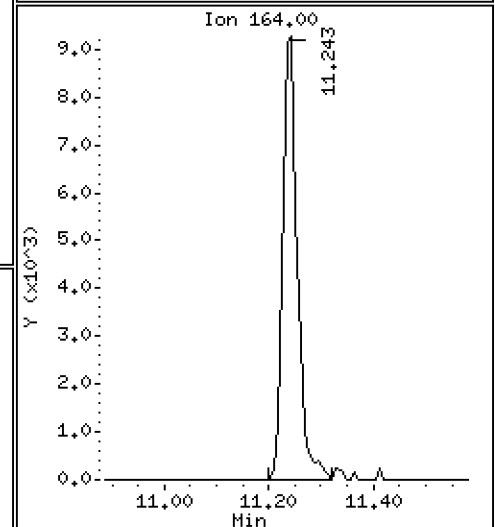
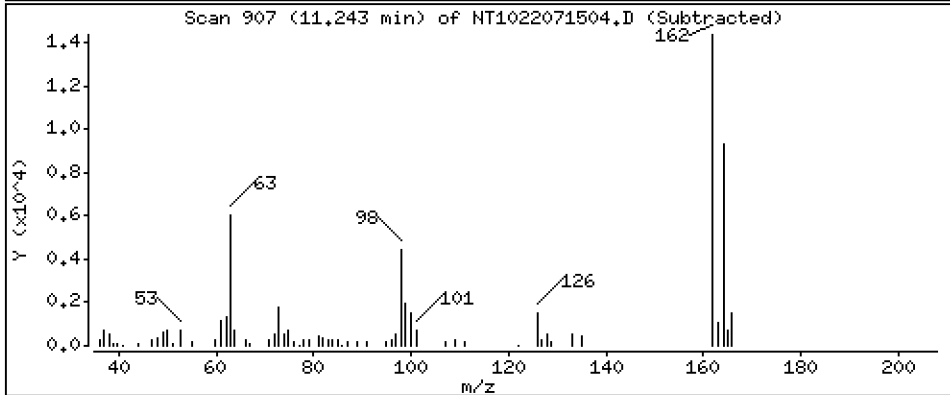
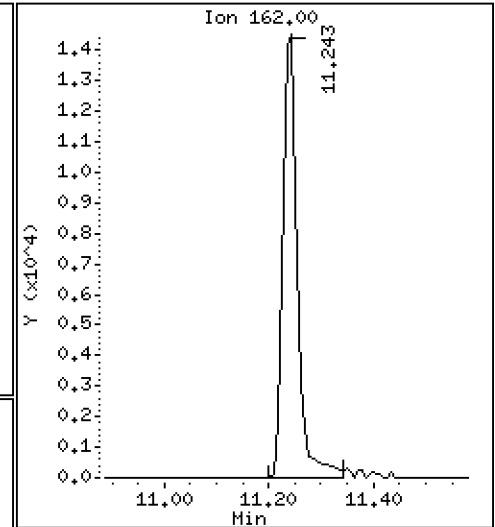
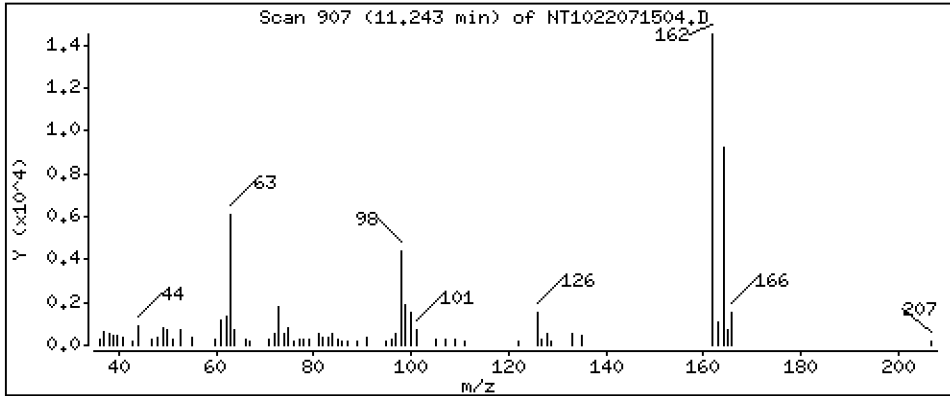
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3892 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

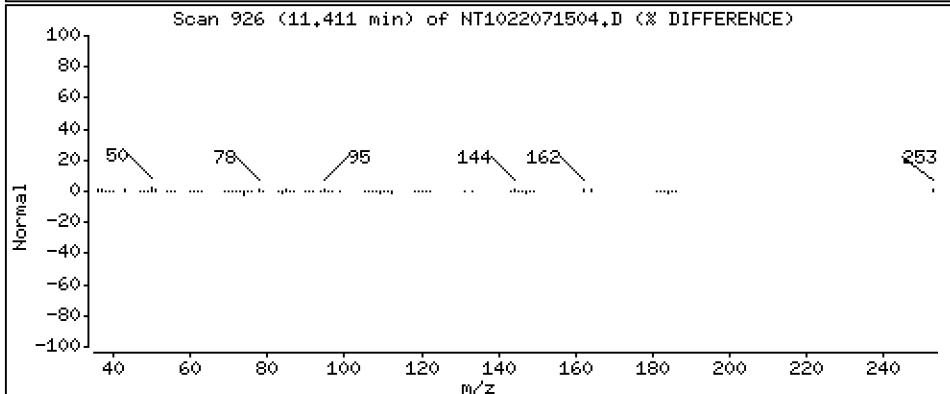
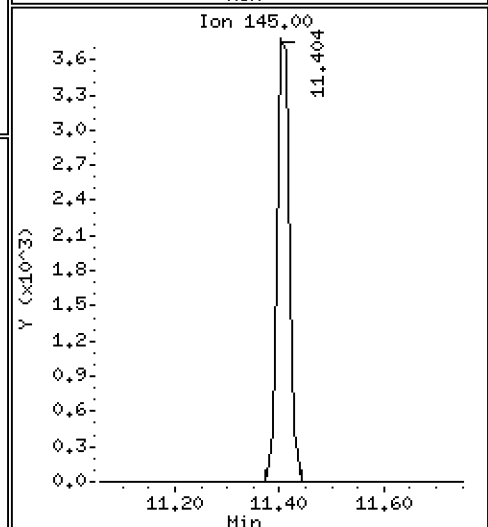
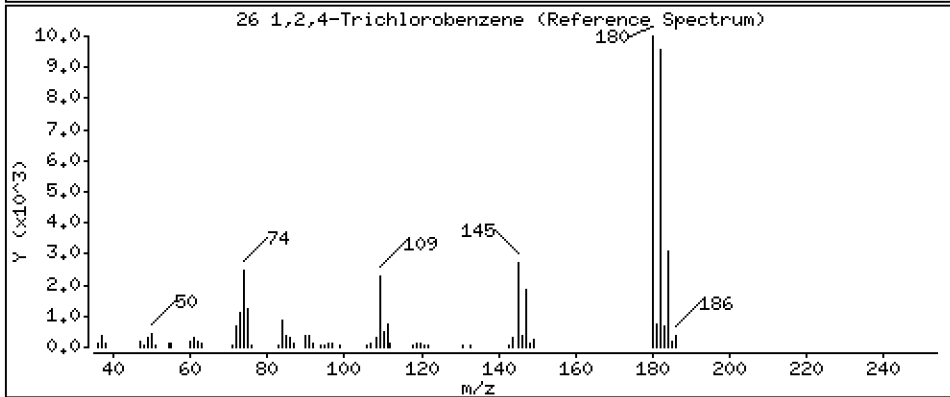
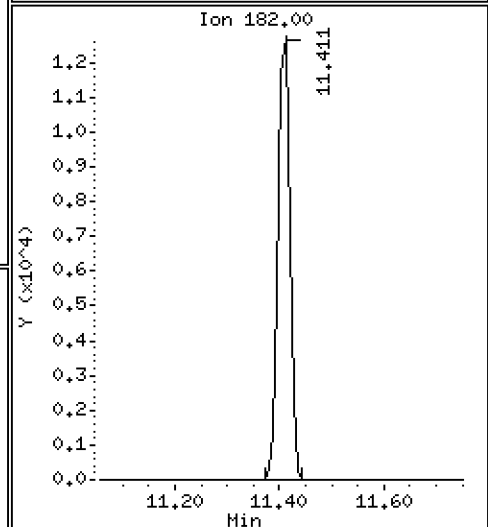
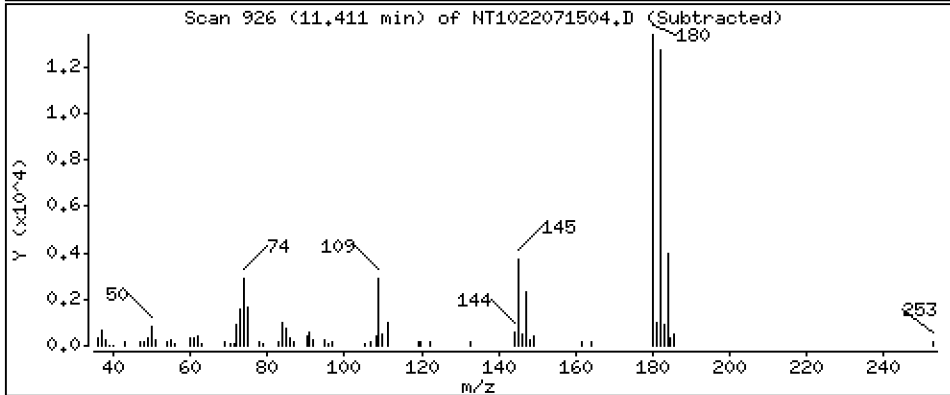
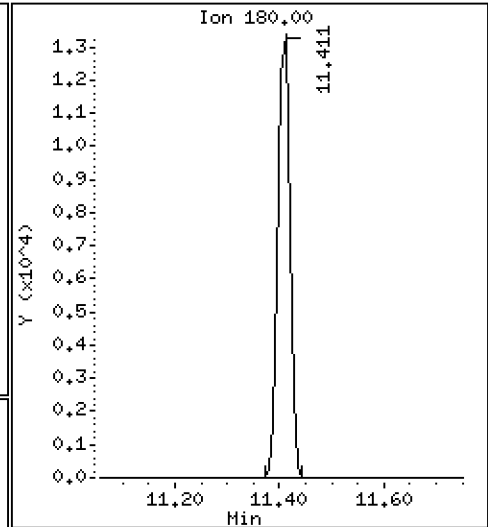
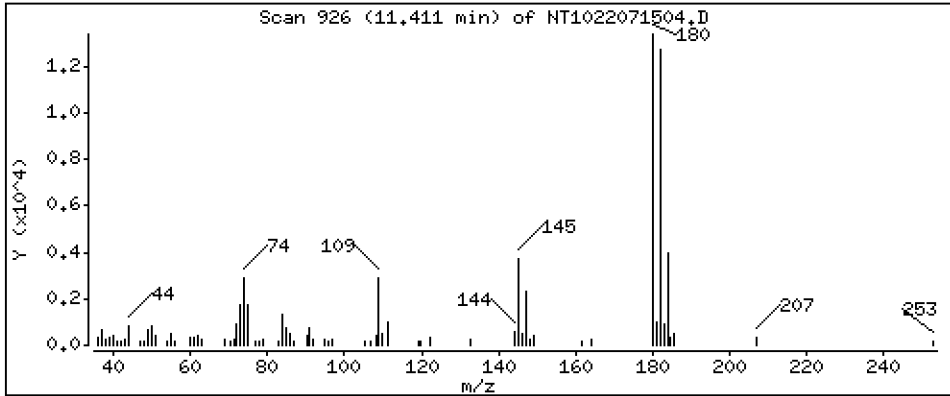
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2395 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

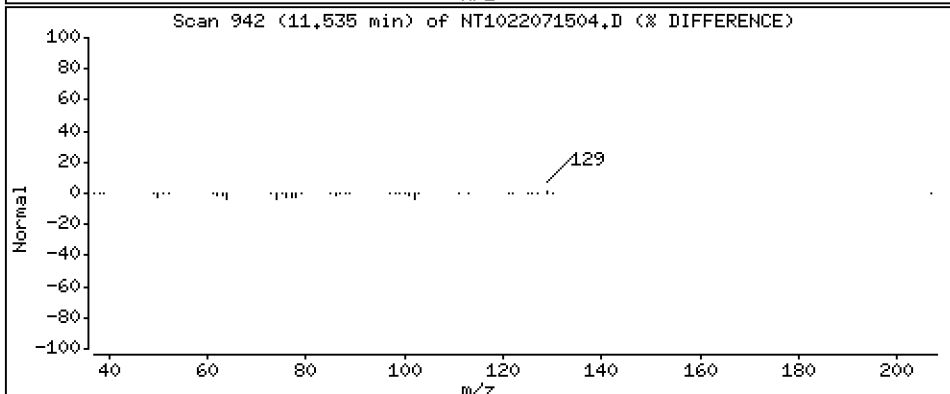
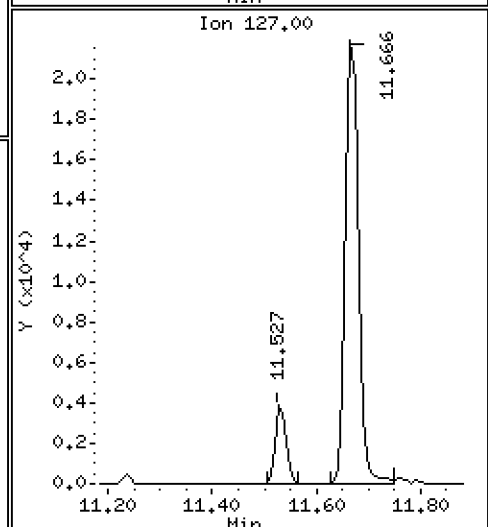
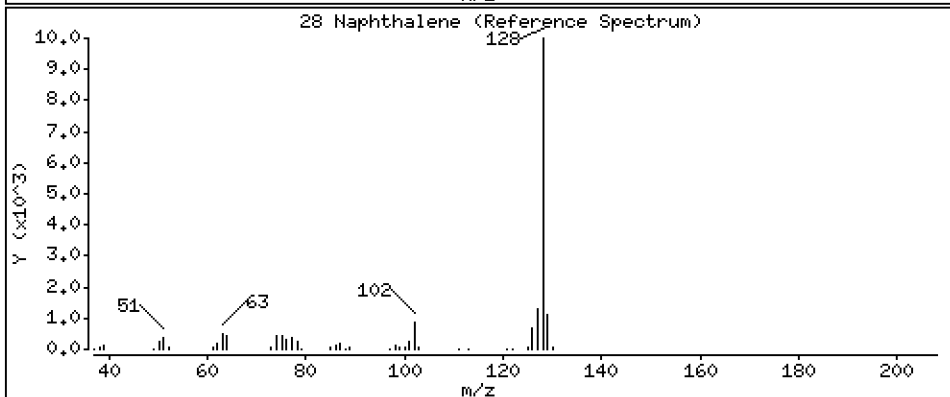
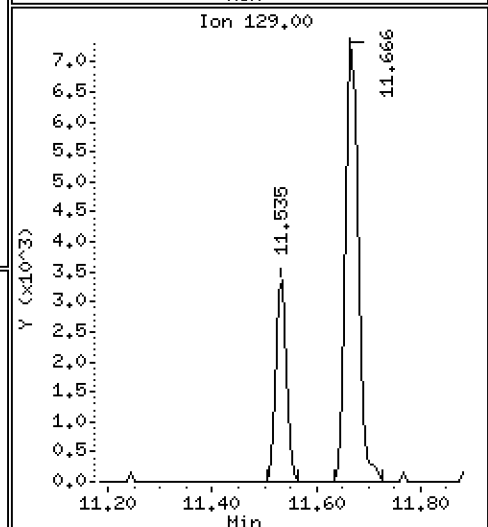
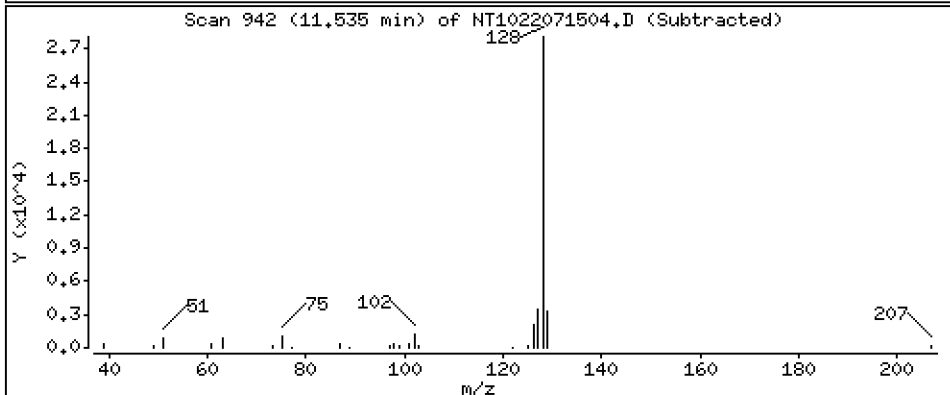
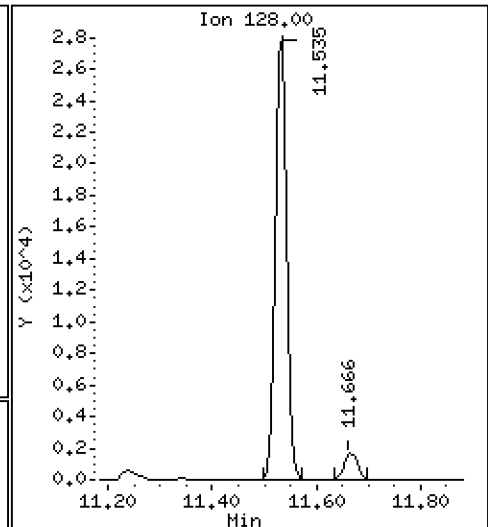
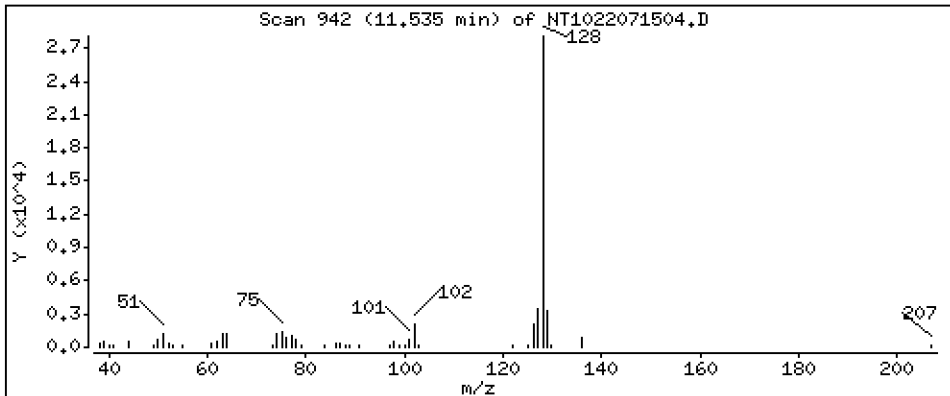
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.1846 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

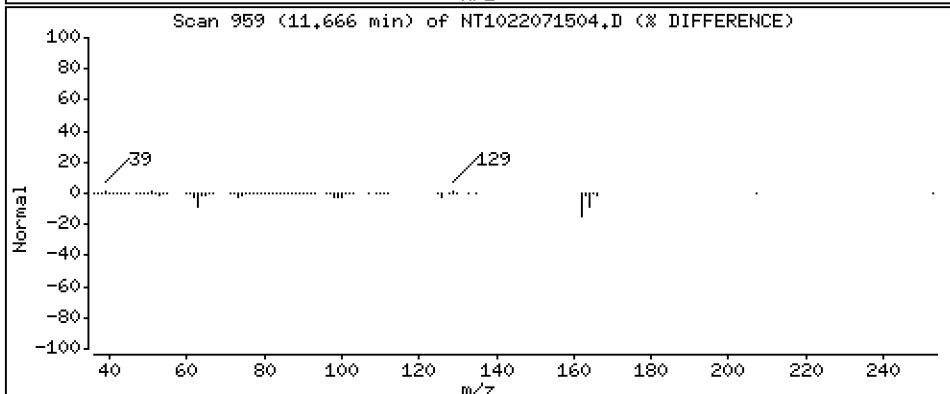
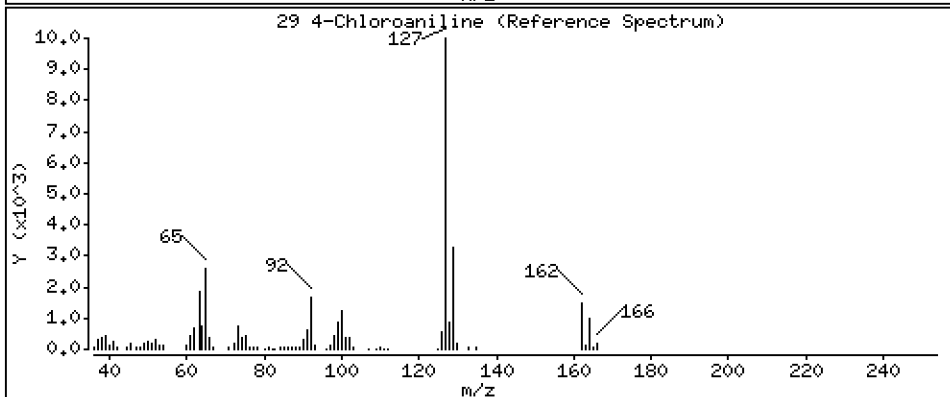
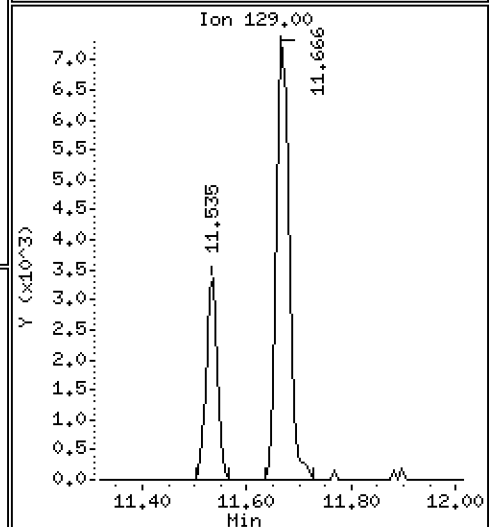
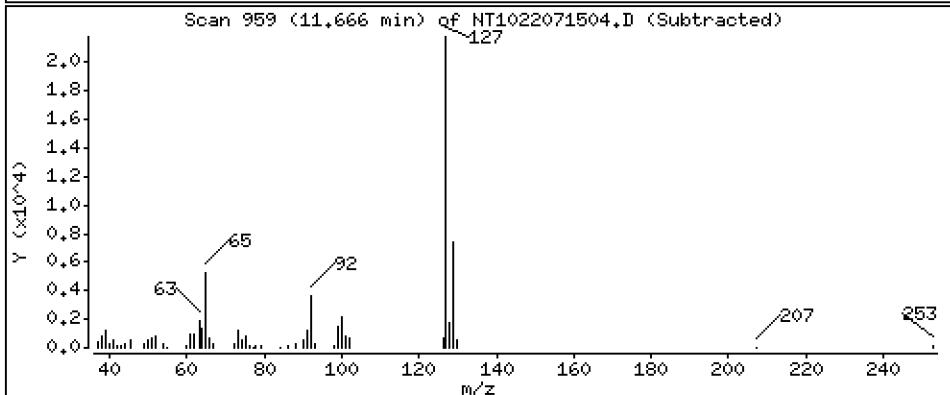
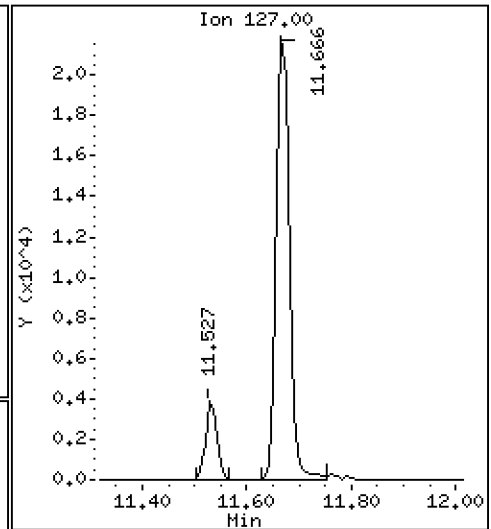
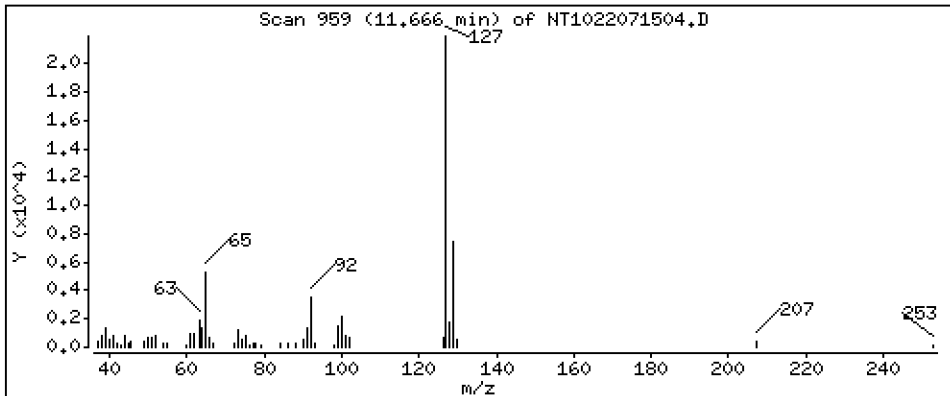
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3418 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

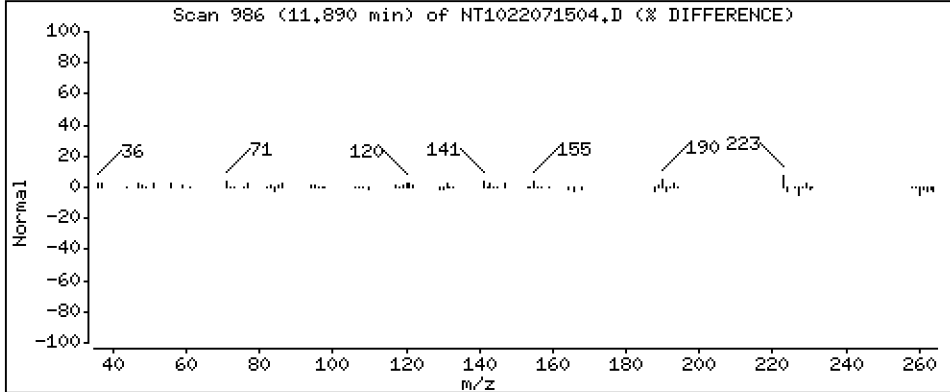
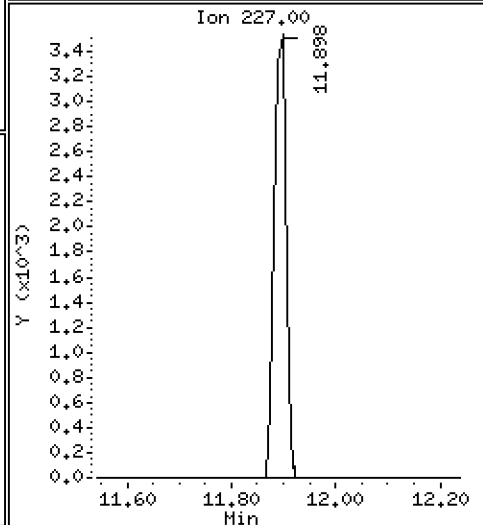
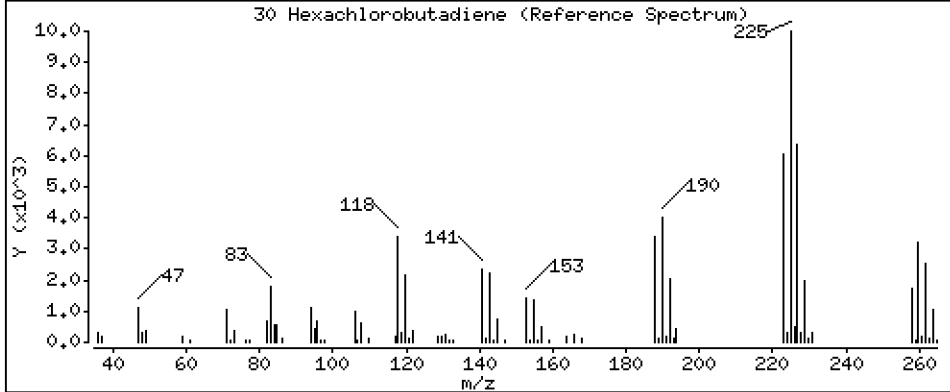
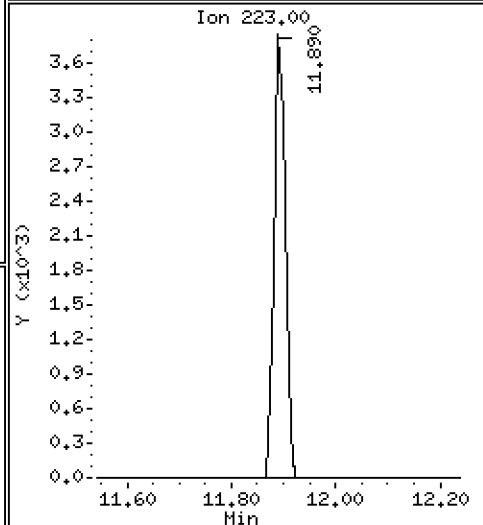
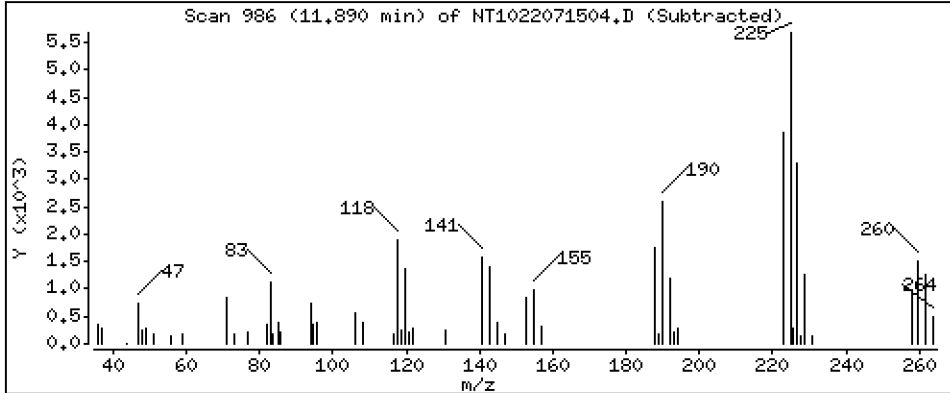
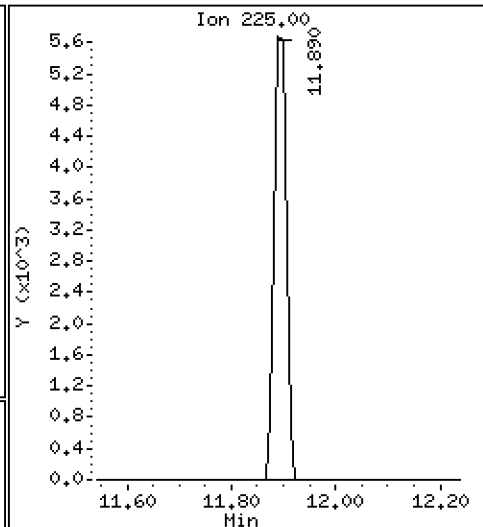
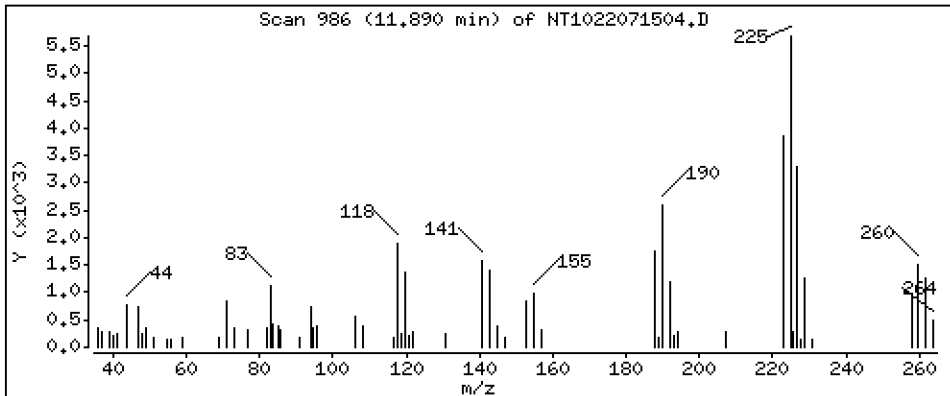
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2160 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

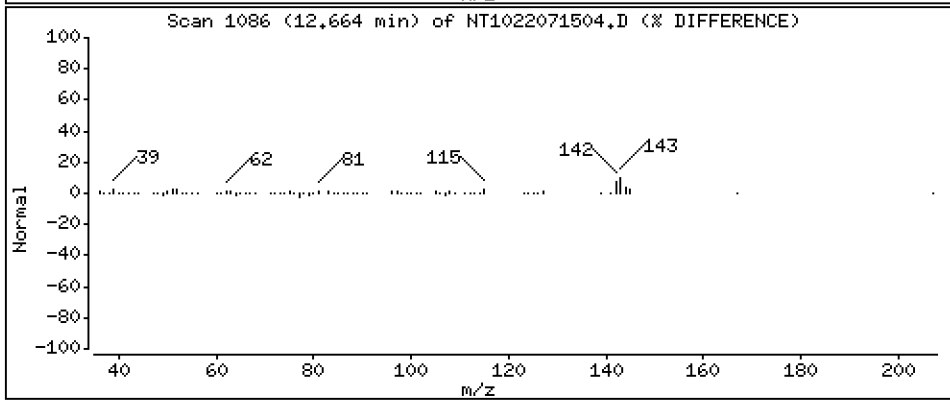
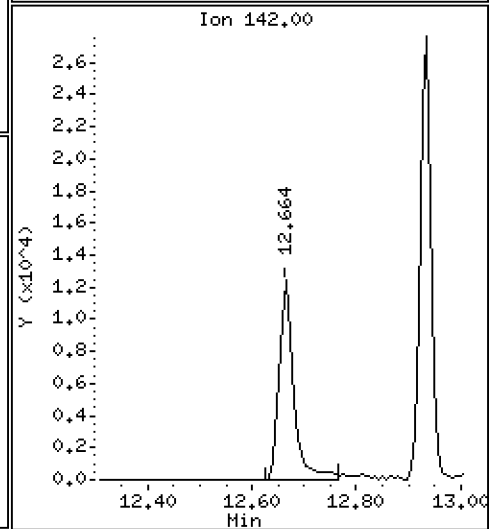
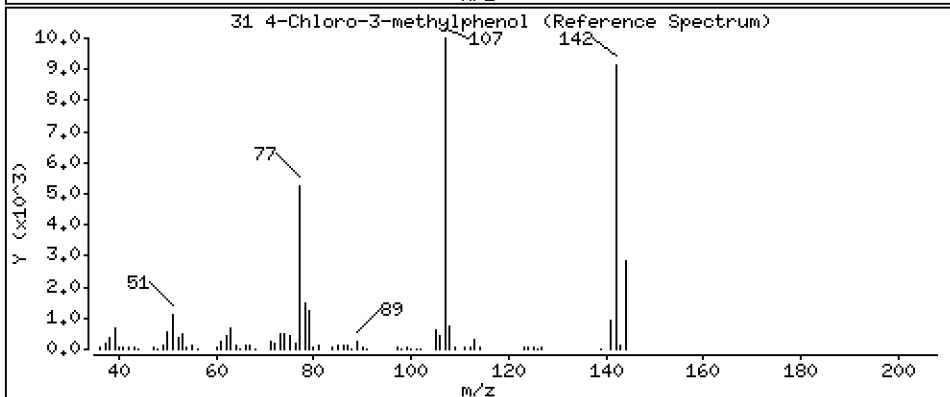
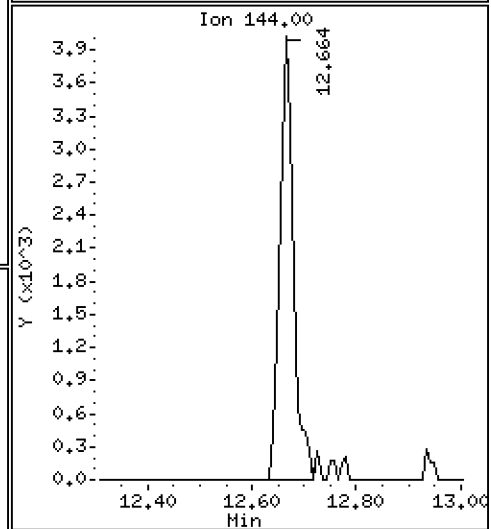
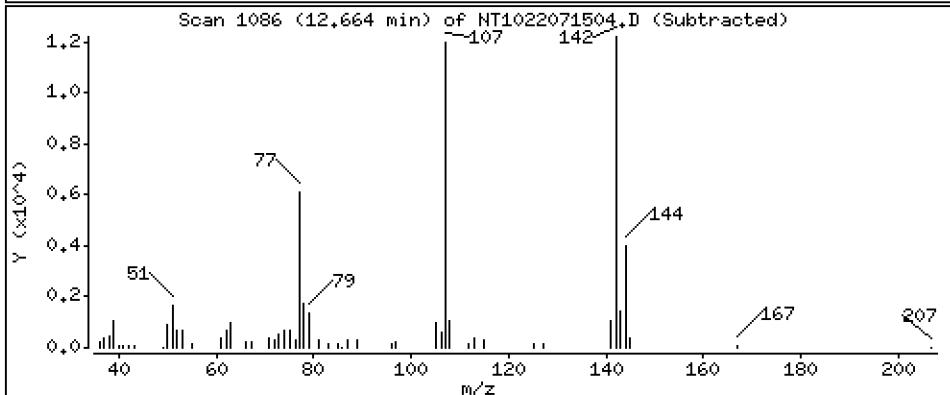
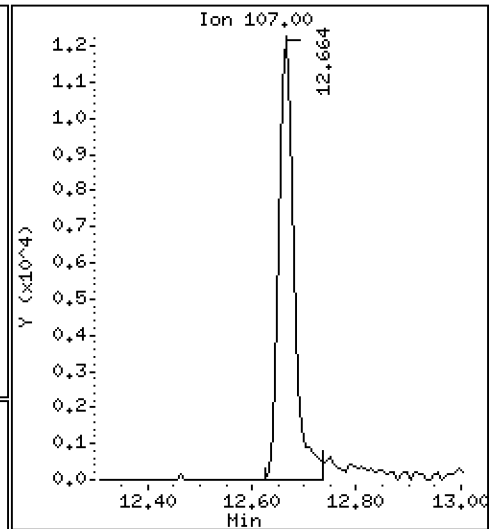
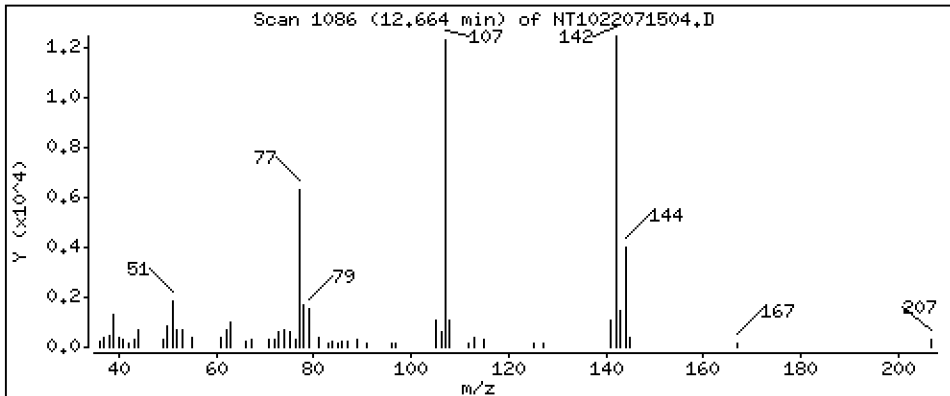
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,2650 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

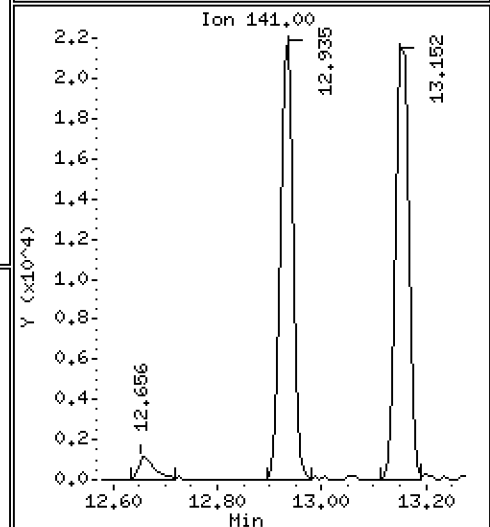
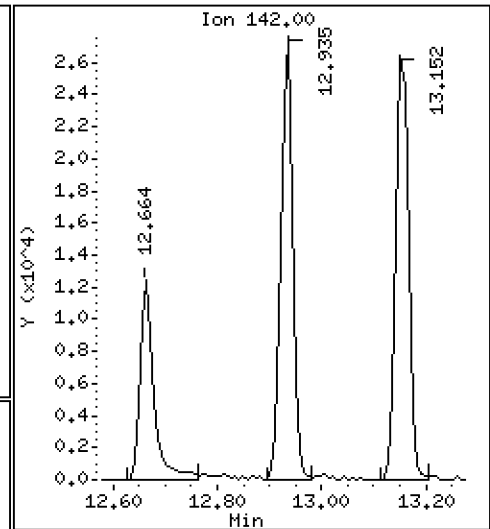
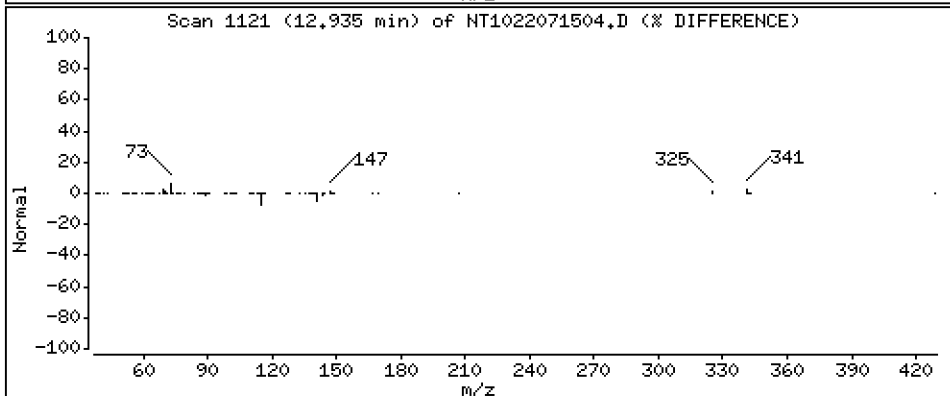
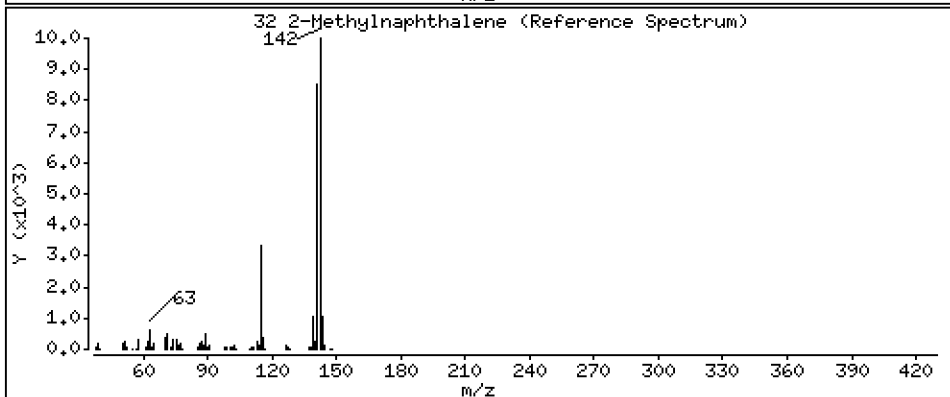
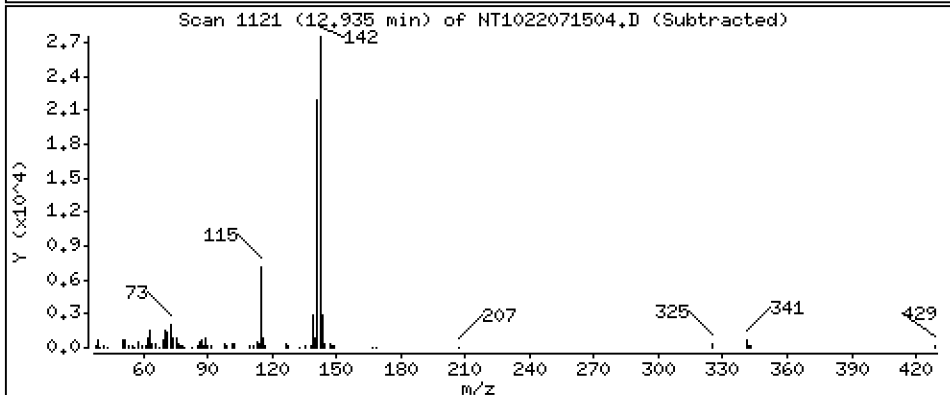
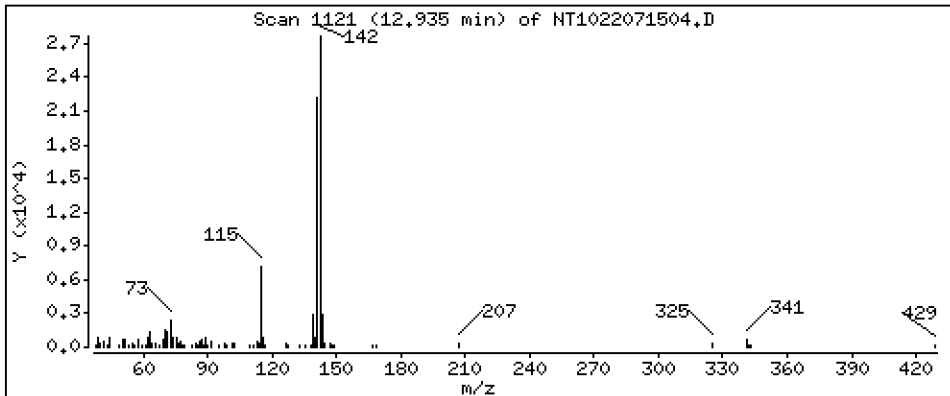
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1757 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

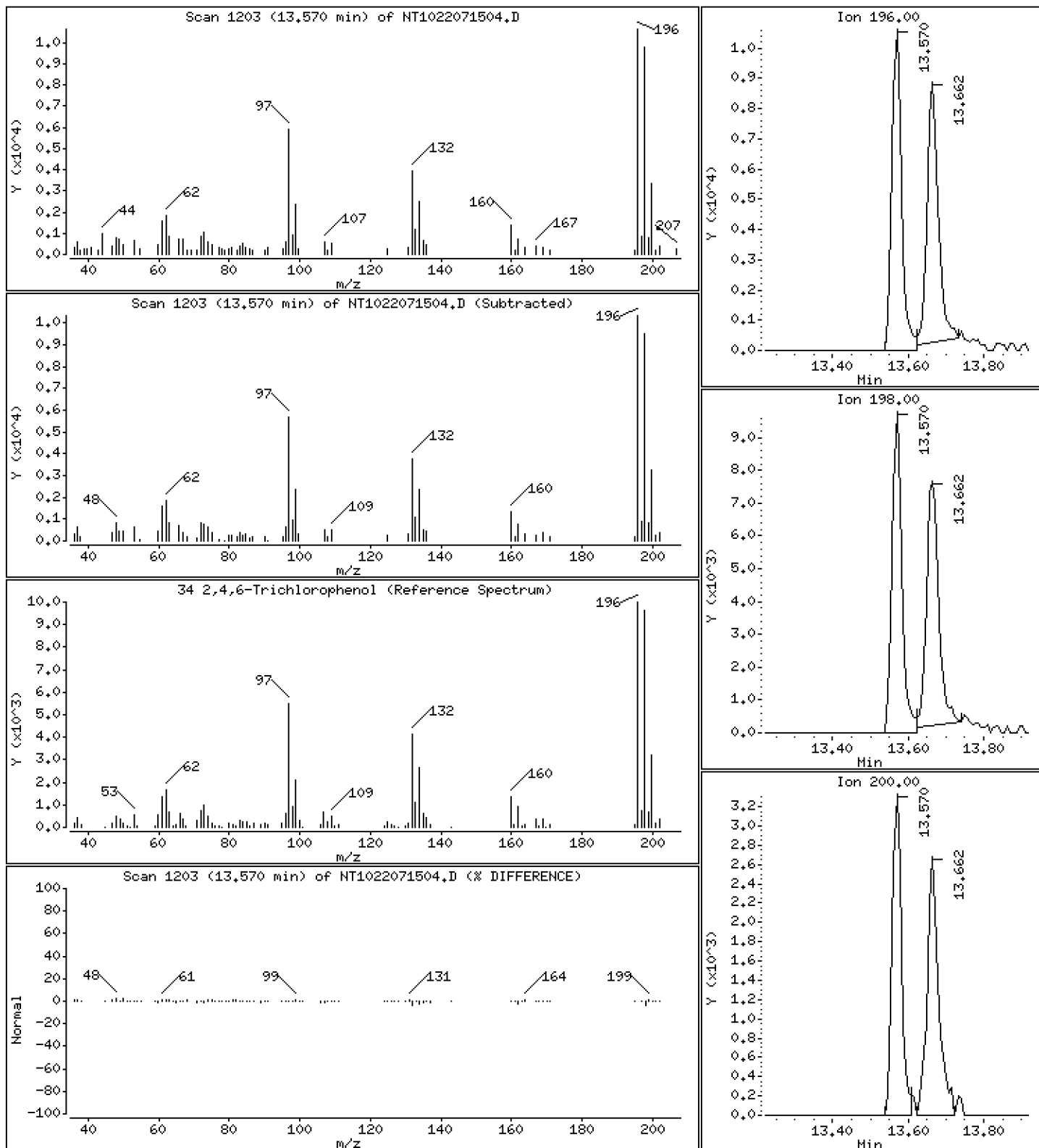
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3361 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

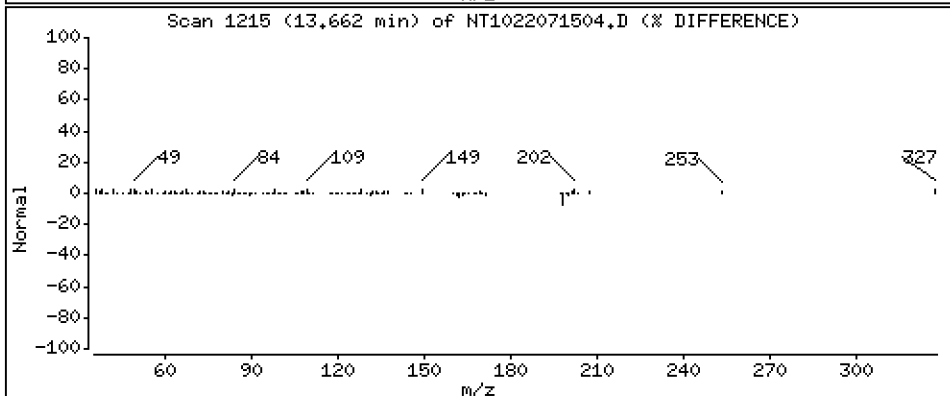
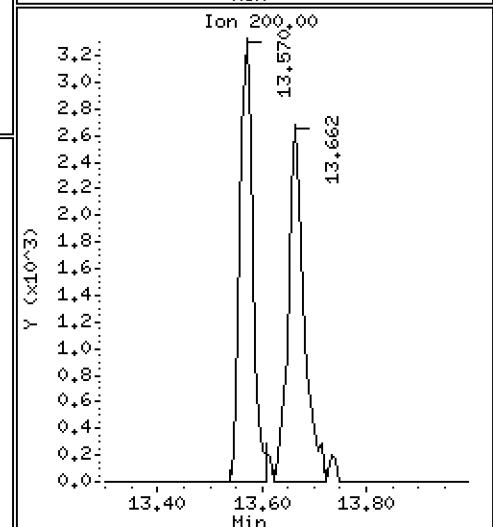
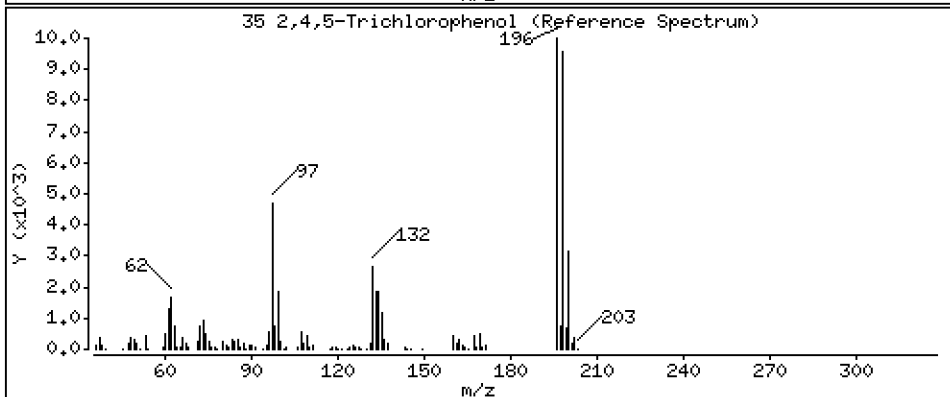
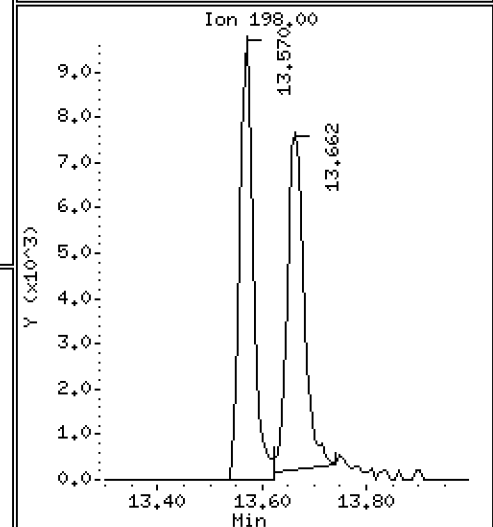
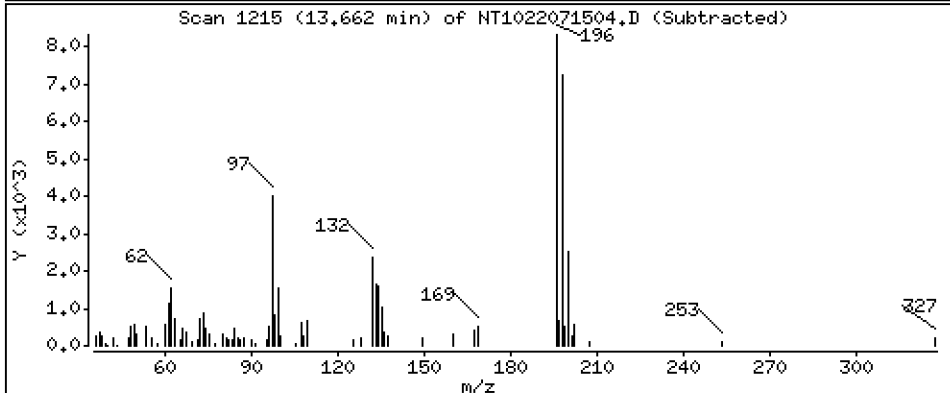
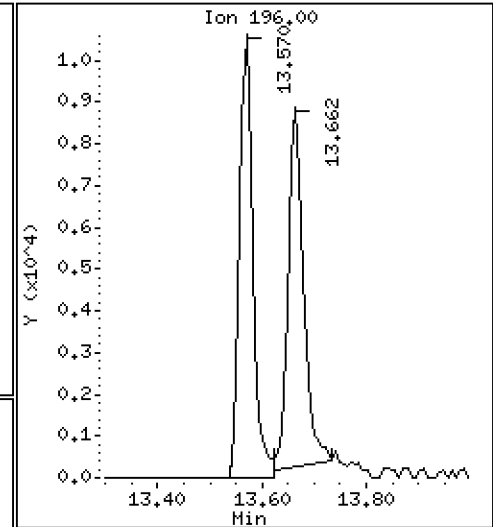
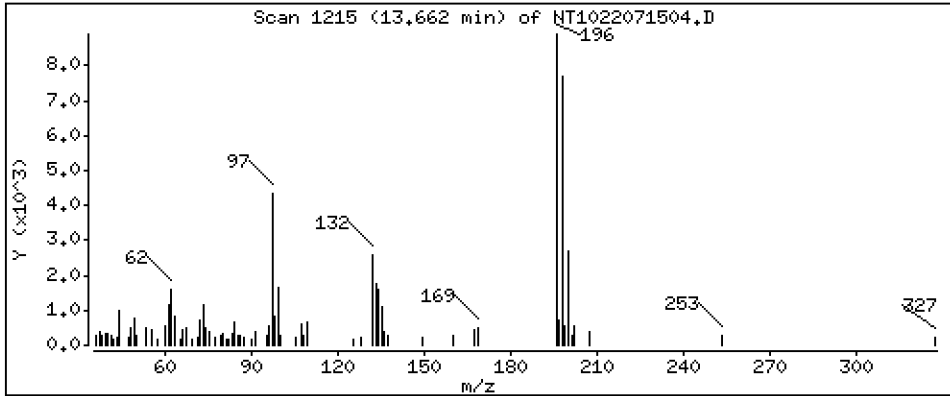
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,2790 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

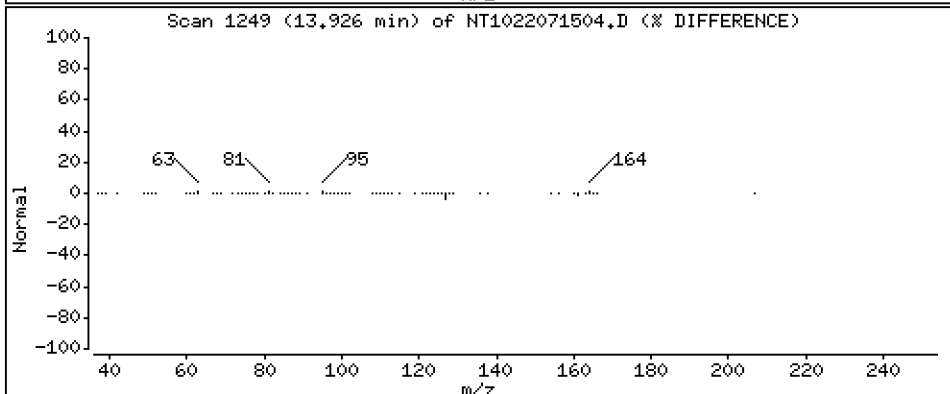
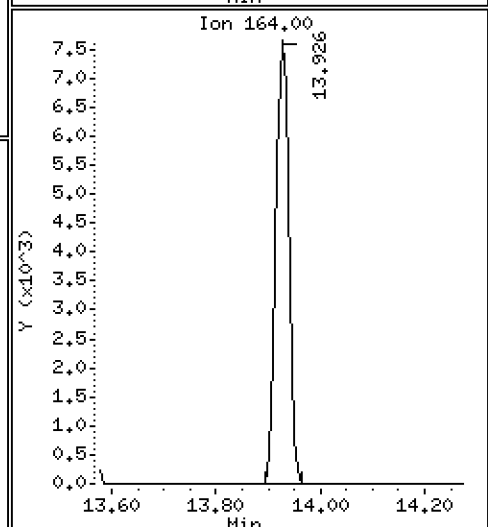
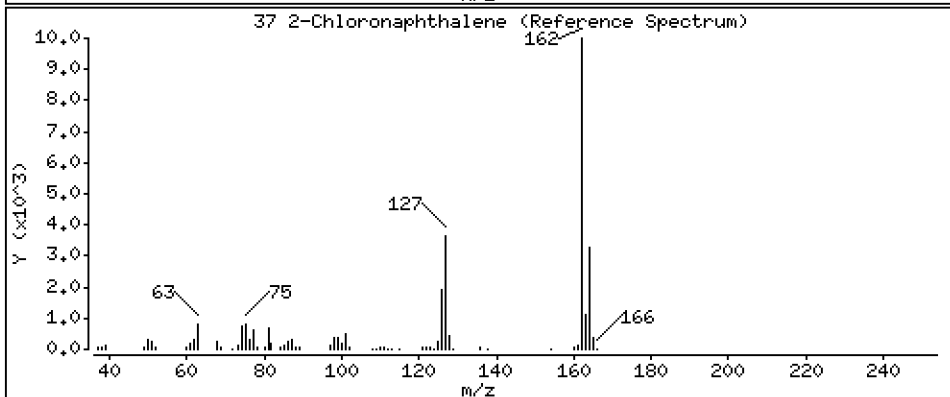
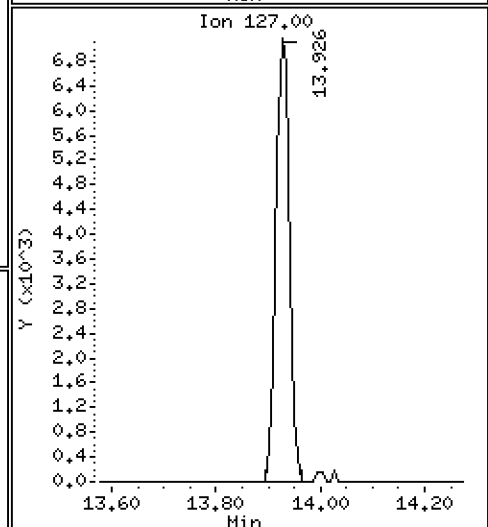
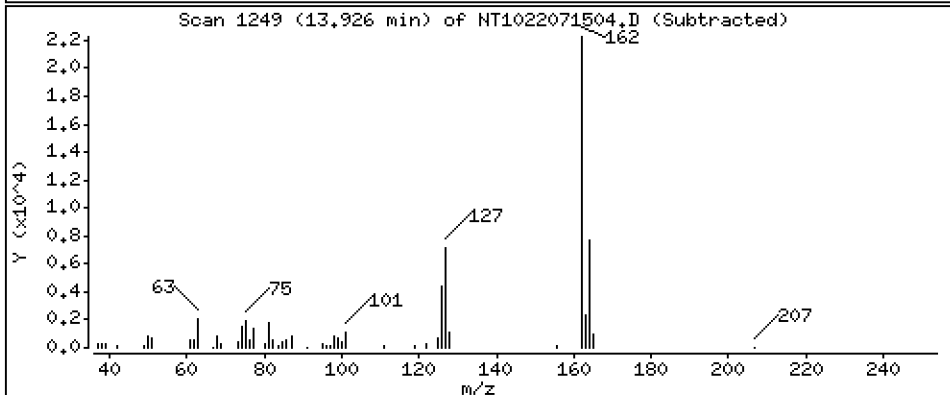
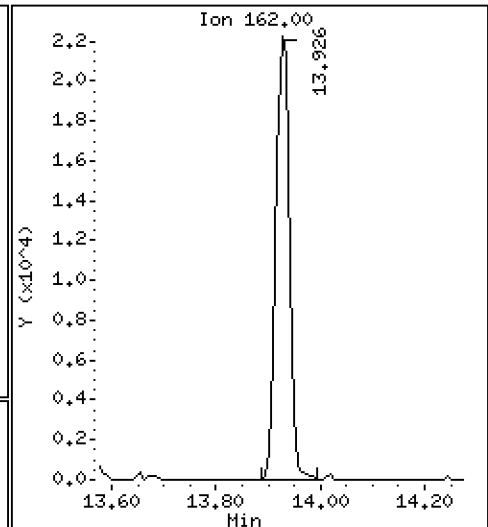
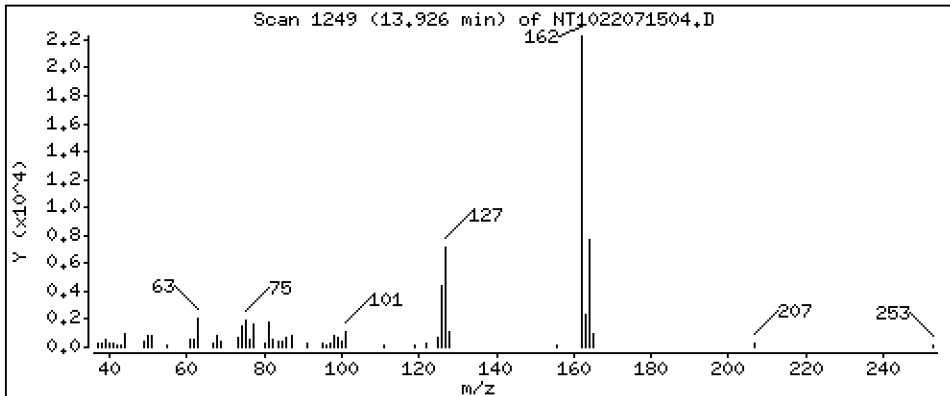
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2039 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

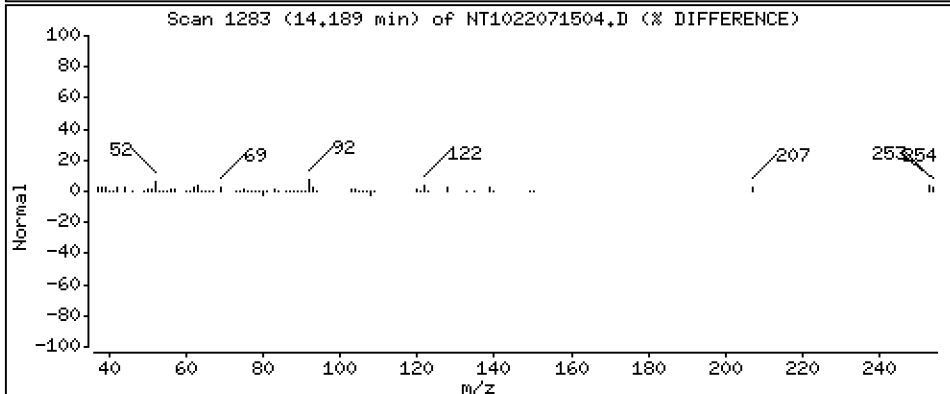
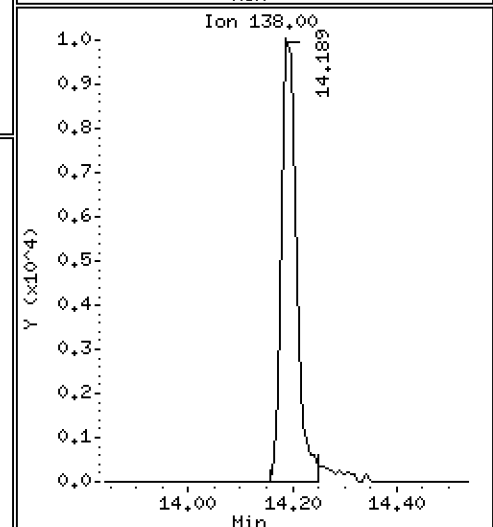
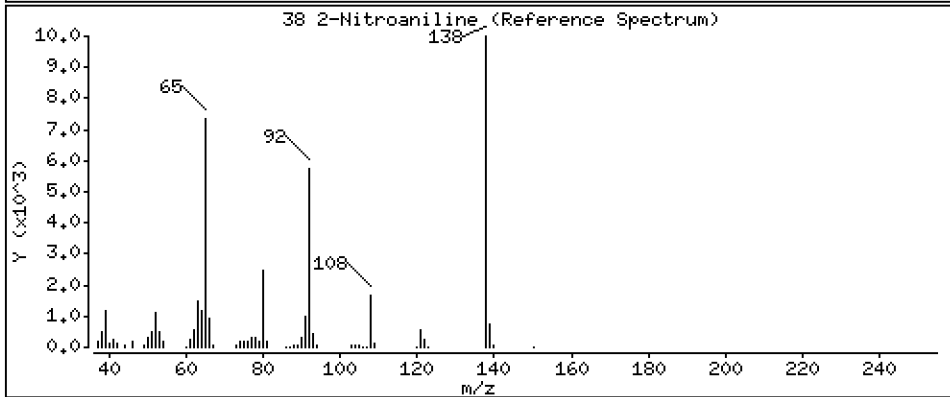
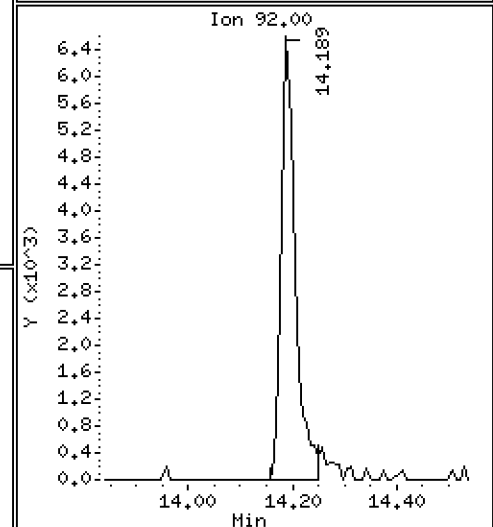
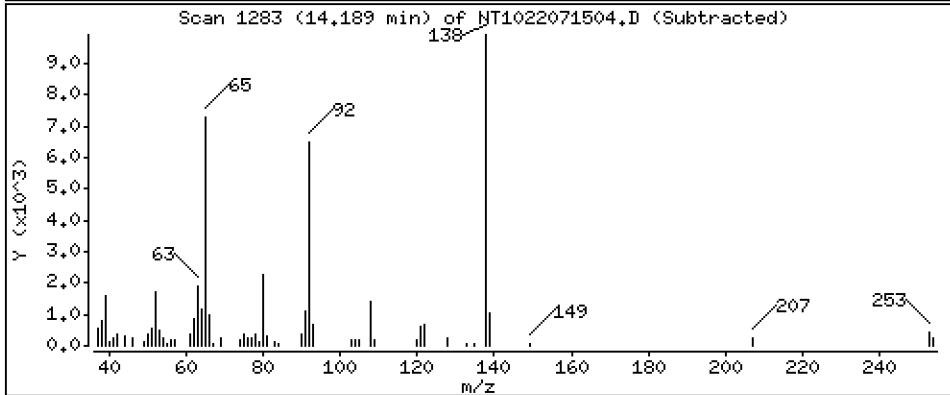
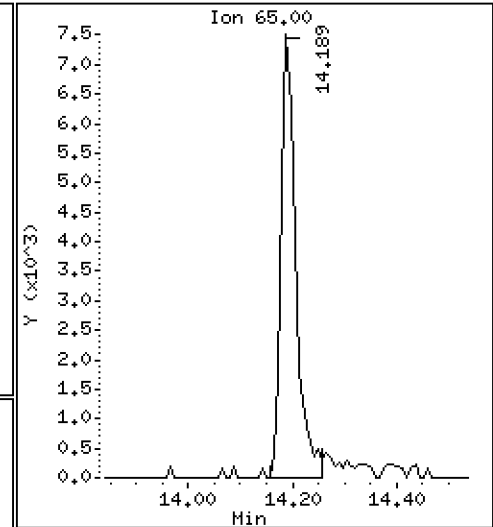
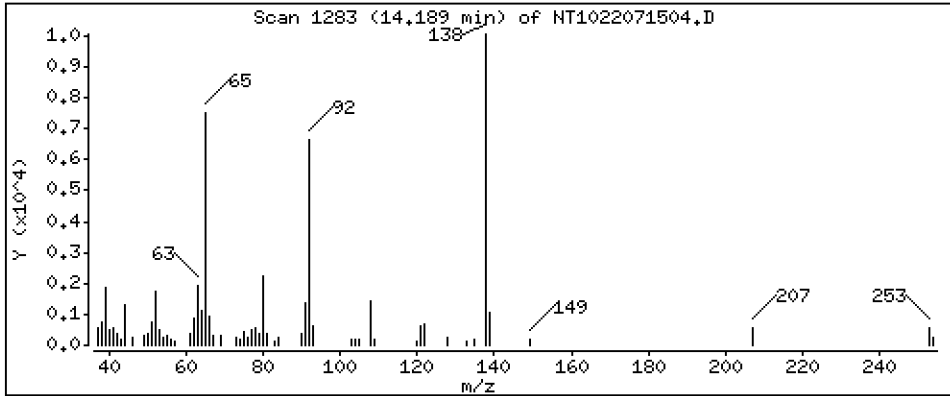
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,2809 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

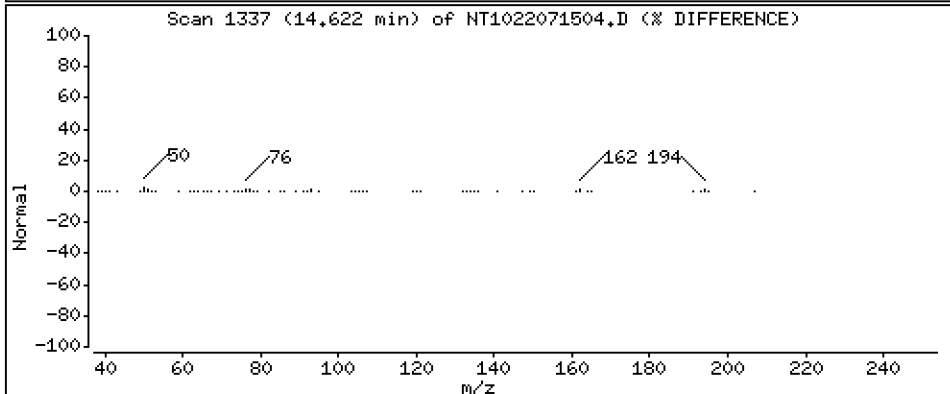
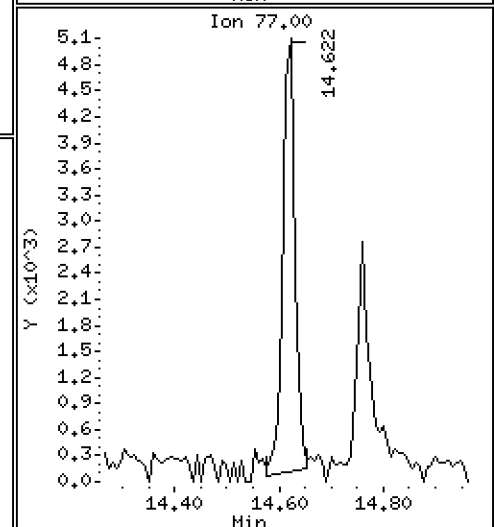
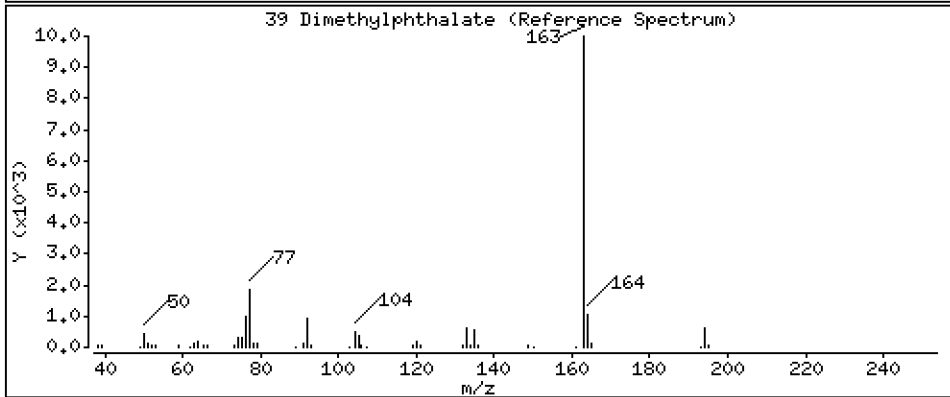
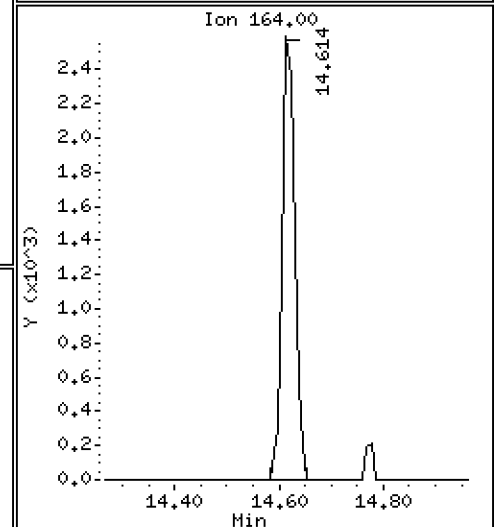
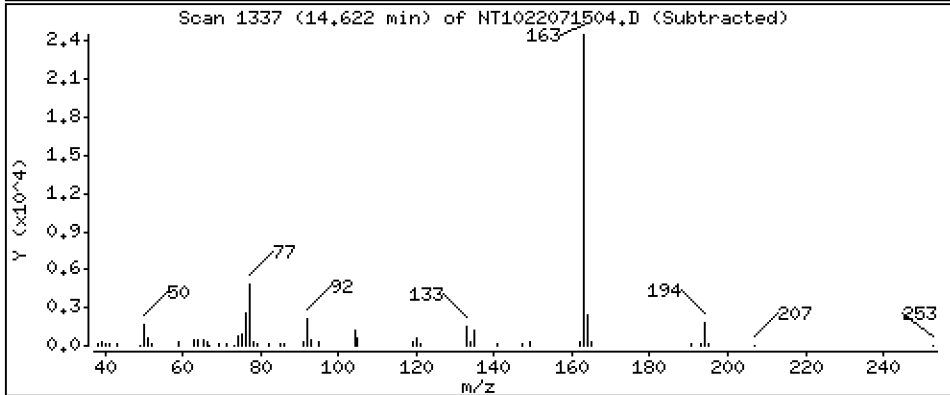
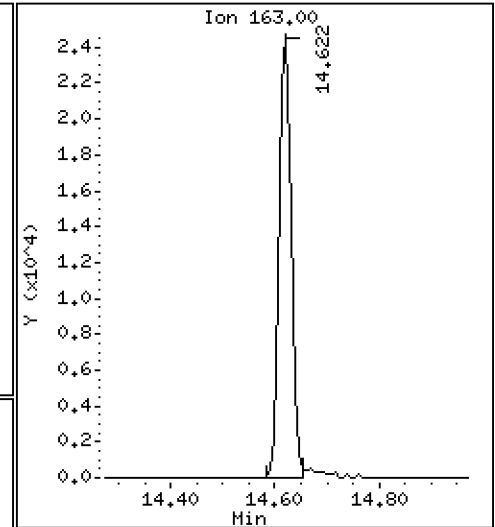
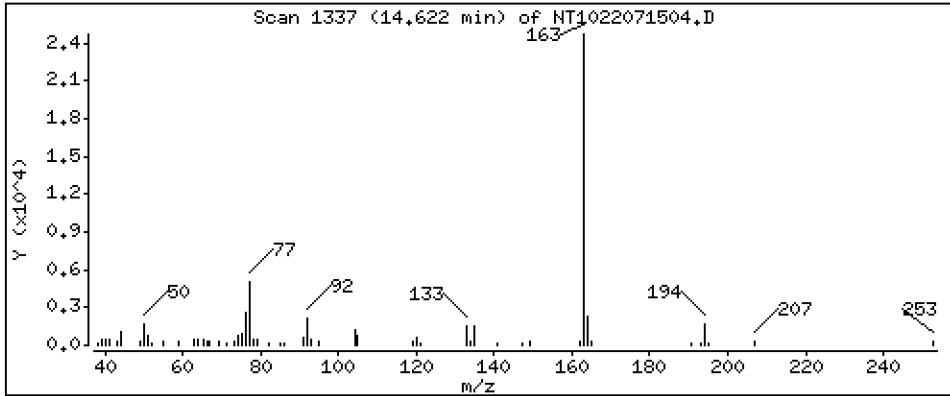
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2274 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

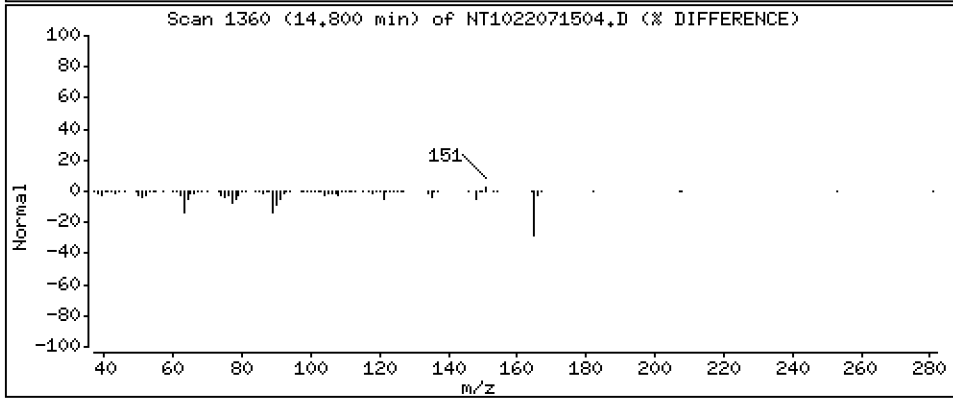
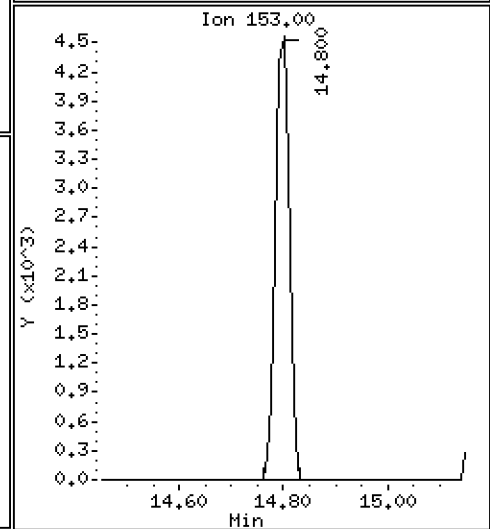
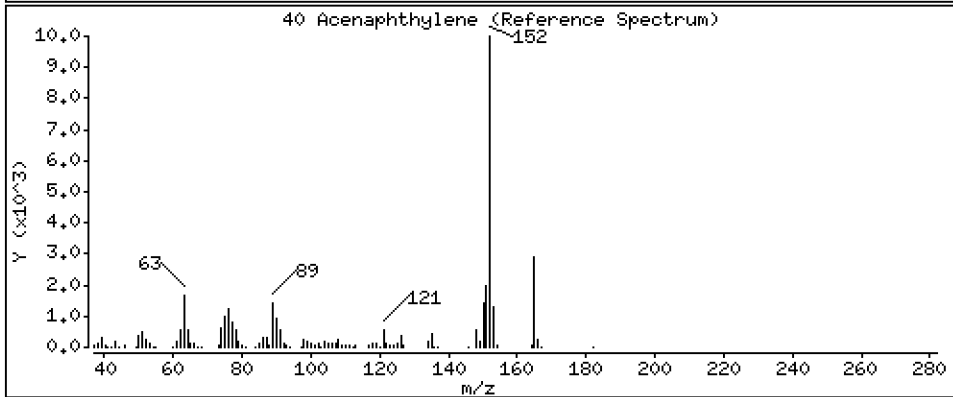
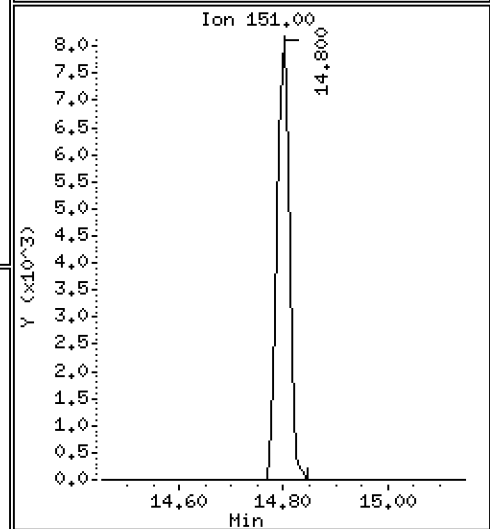
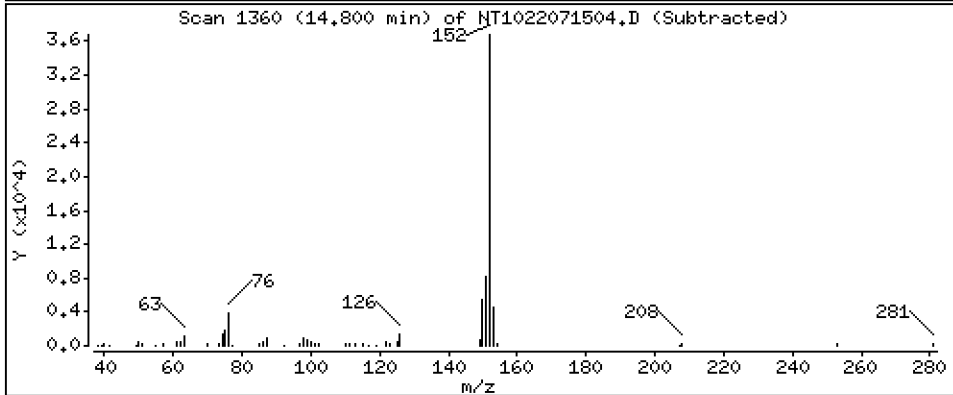
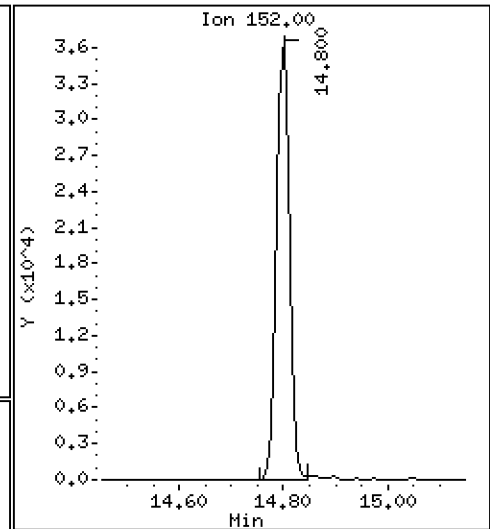
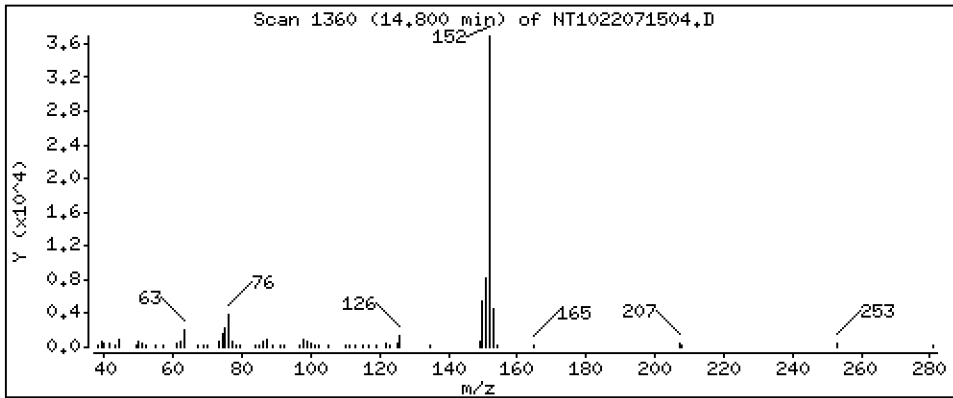
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2163 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

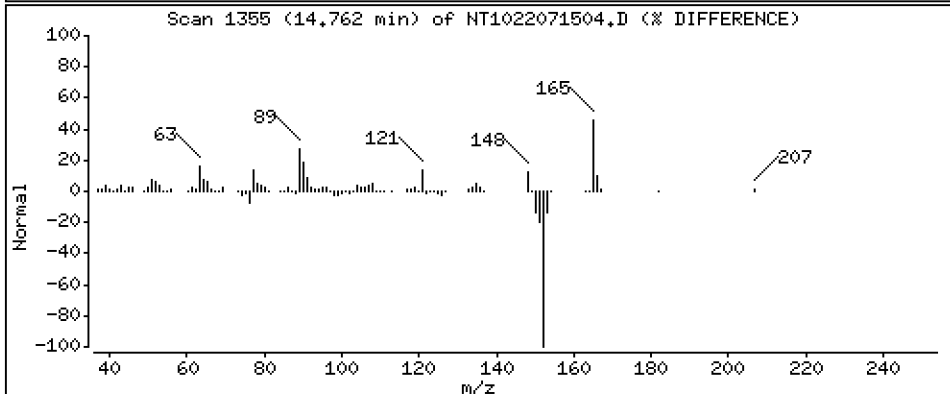
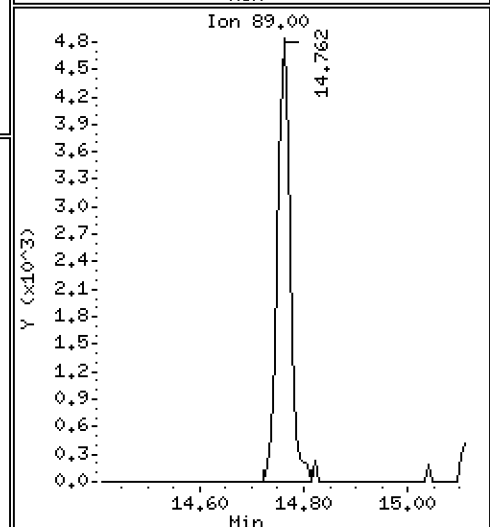
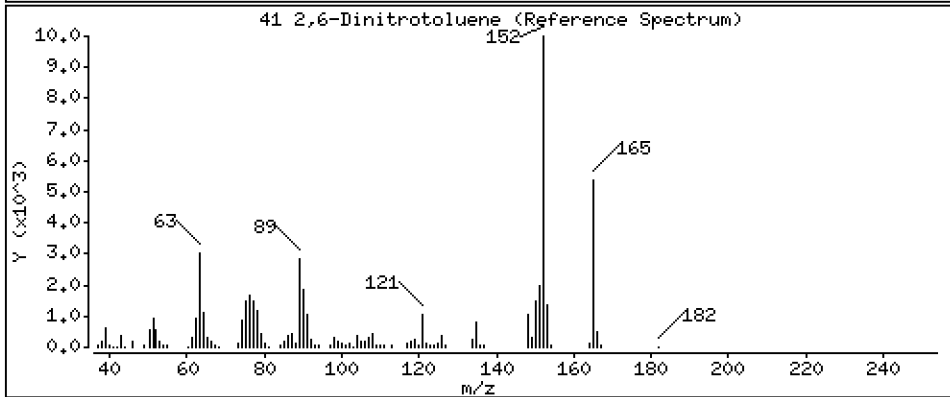
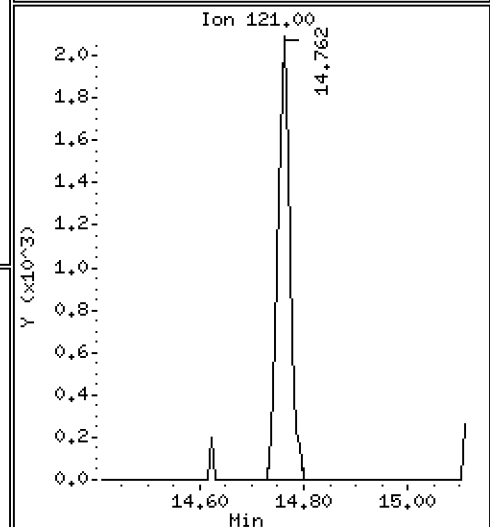
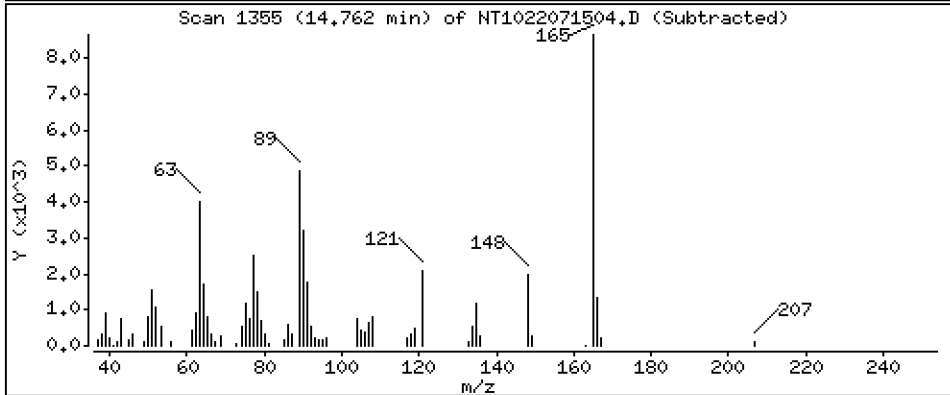
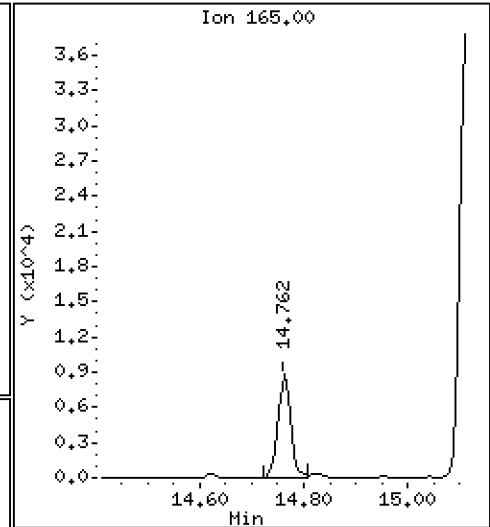
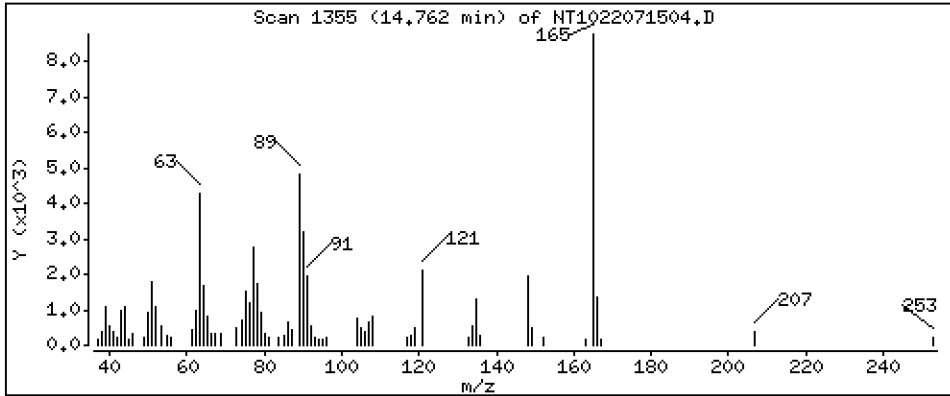
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,3661 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

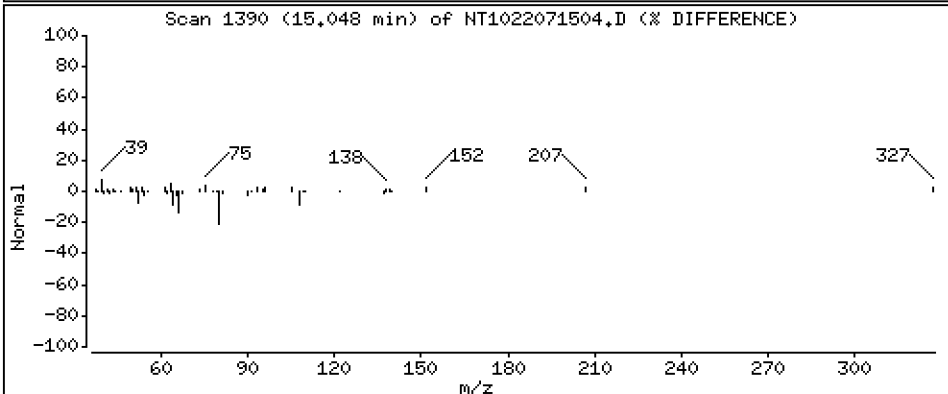
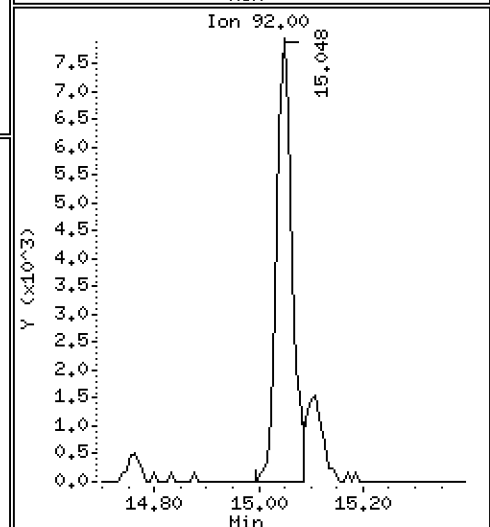
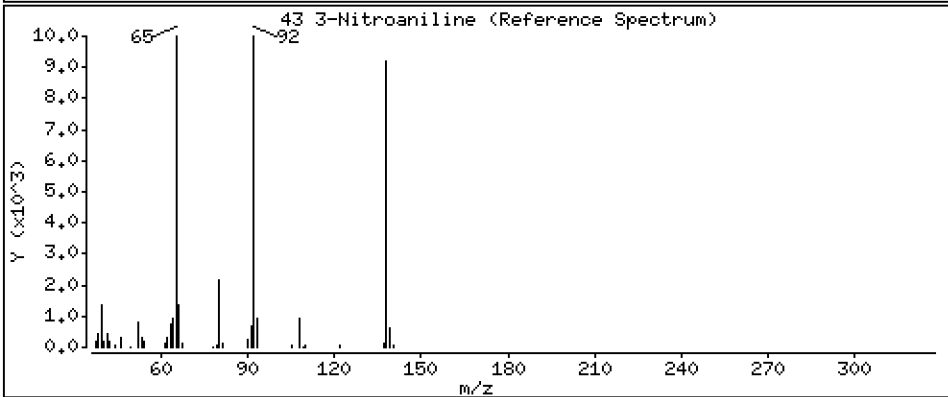
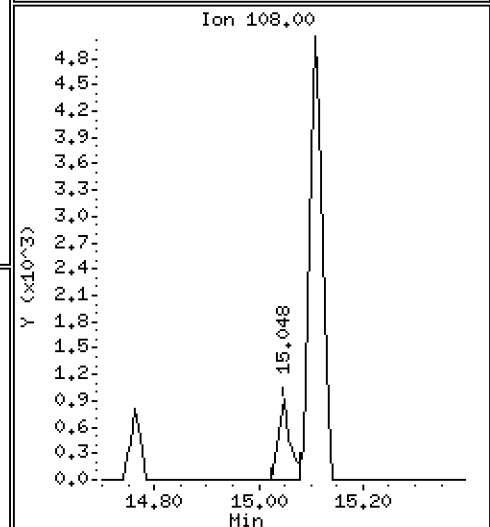
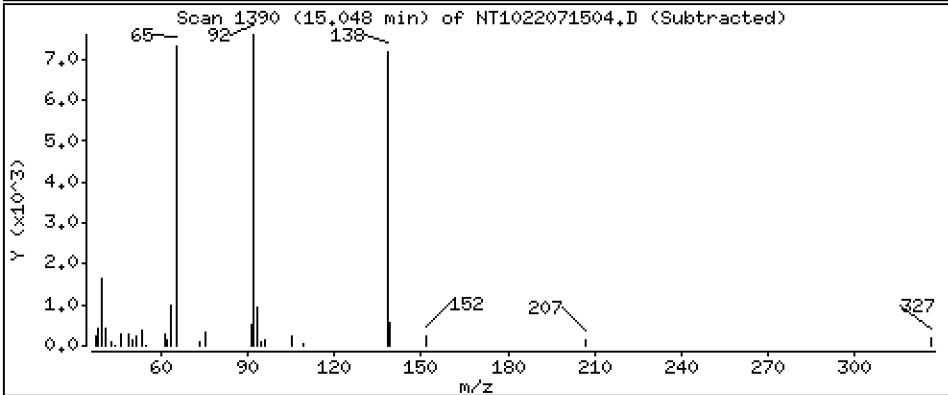
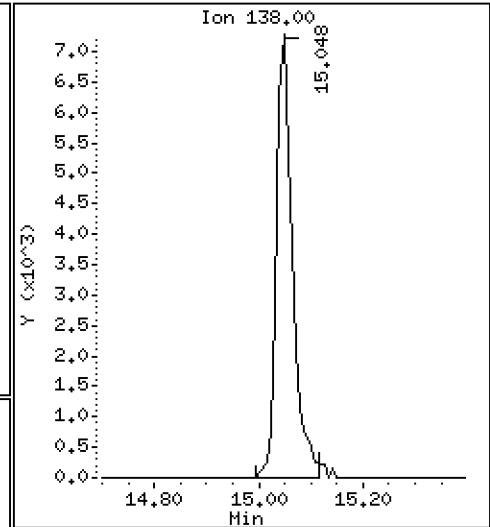
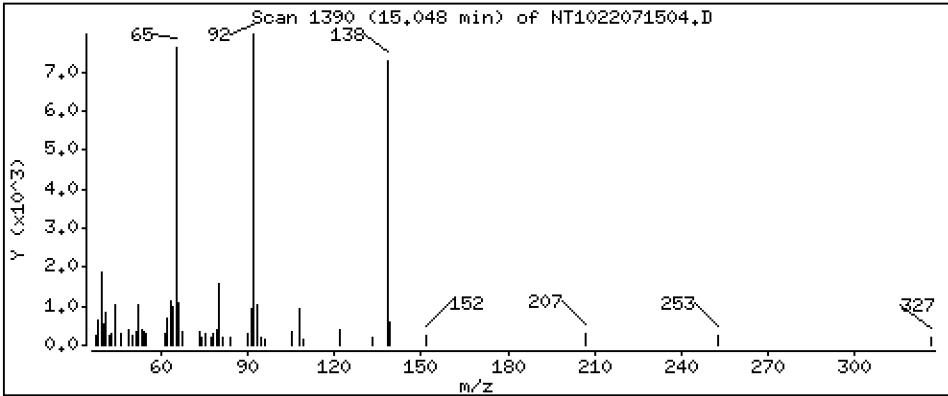
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

43 3-Nitroaniline

Concentration: 0.3752 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

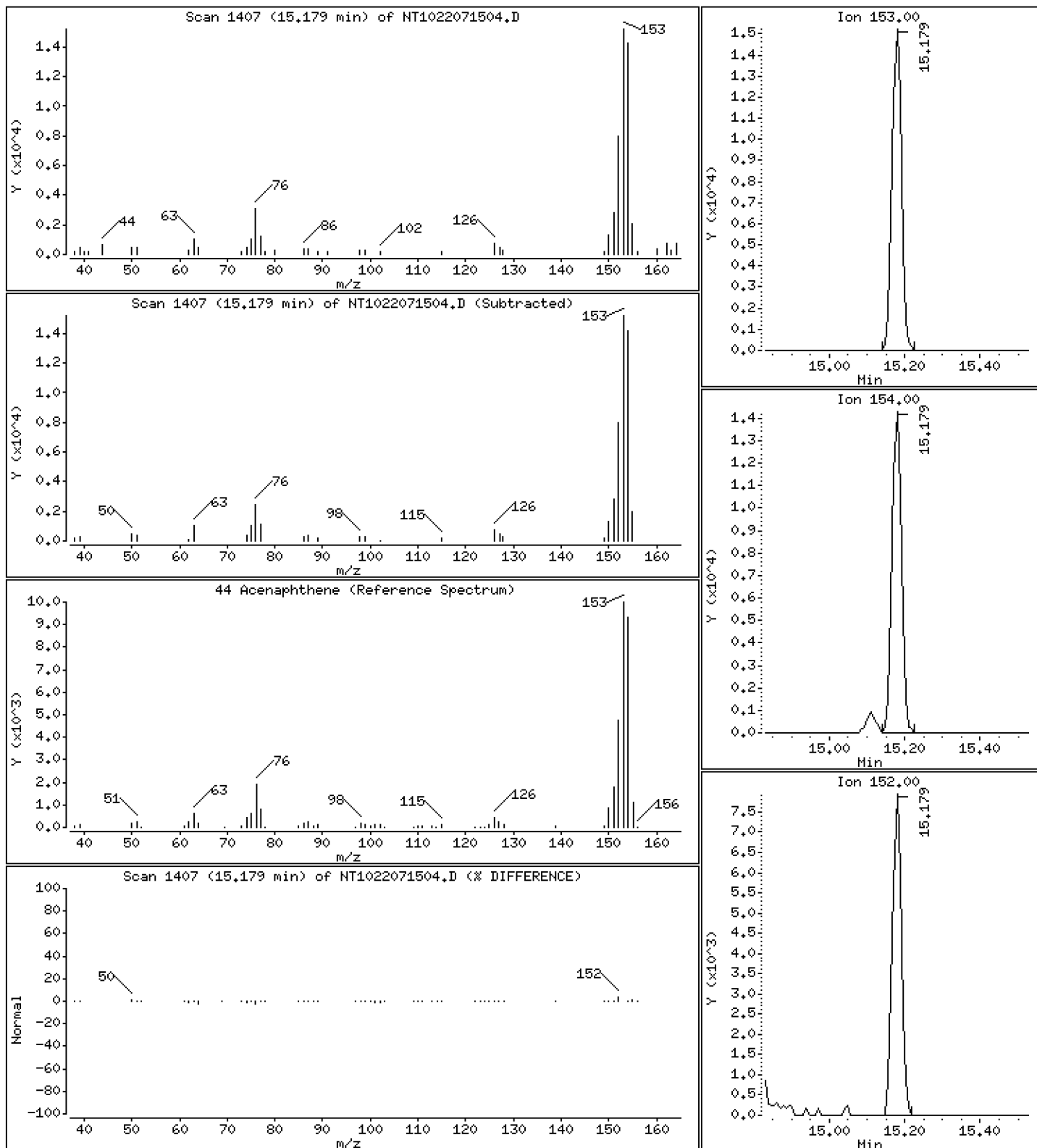
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,1825 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

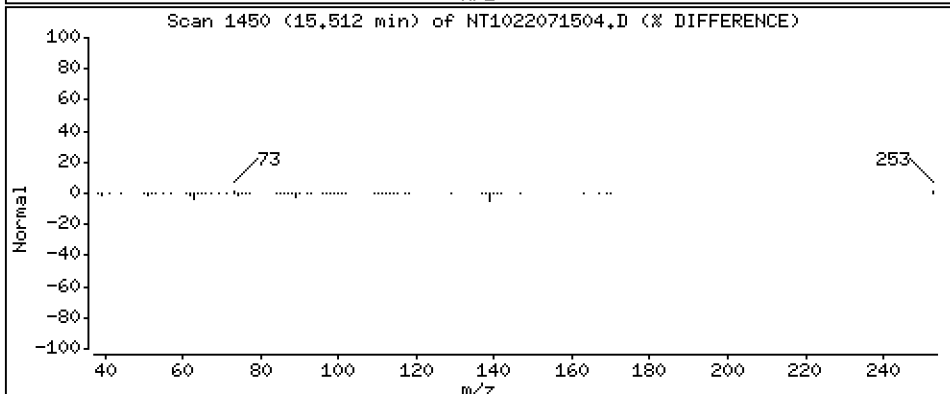
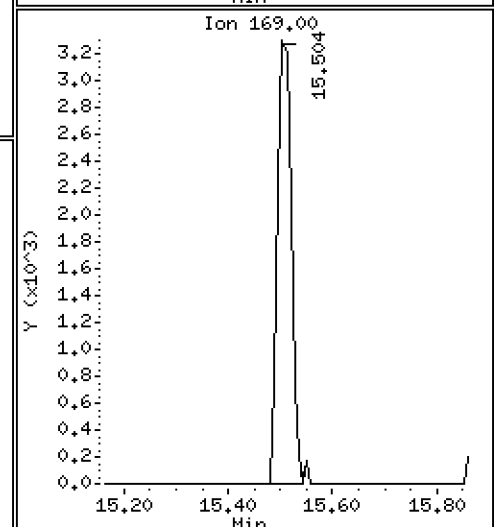
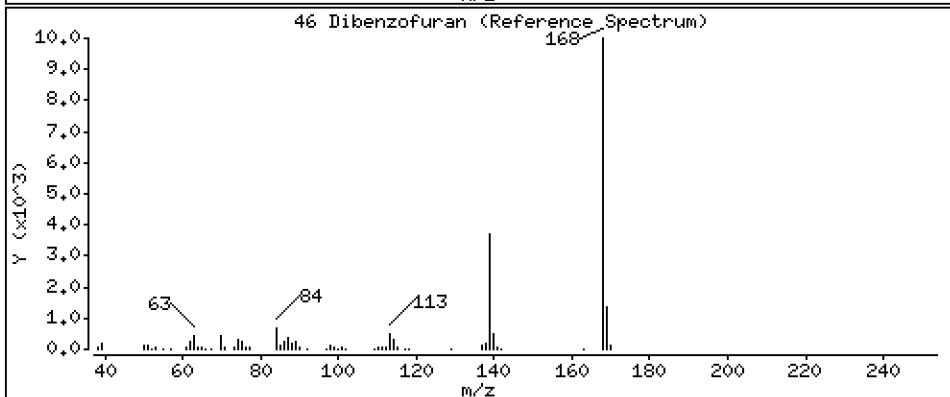
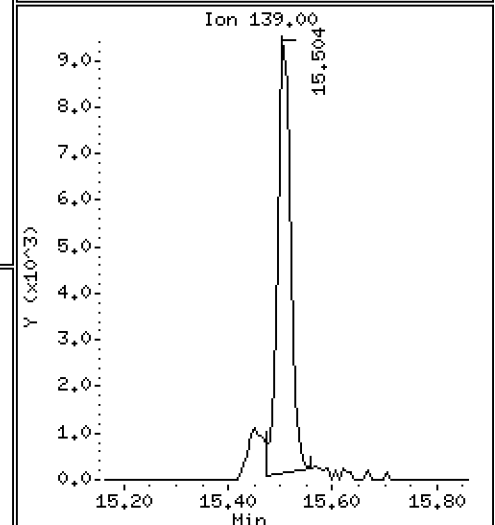
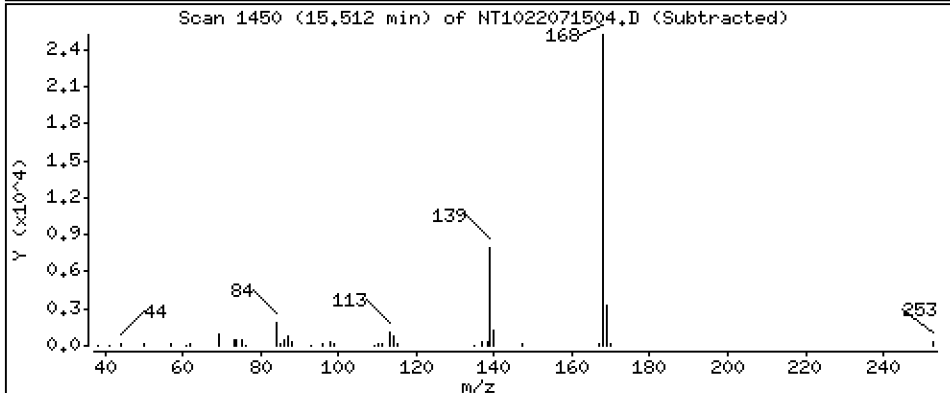
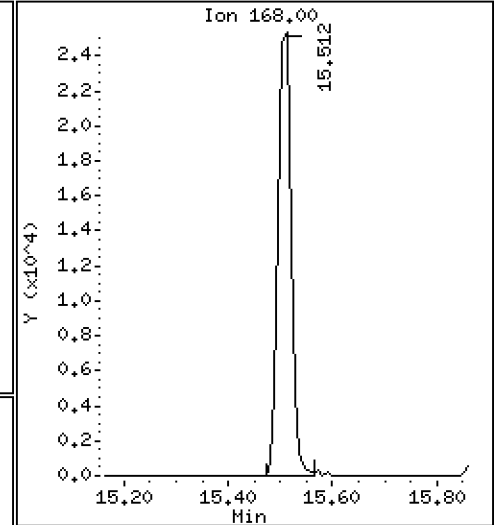
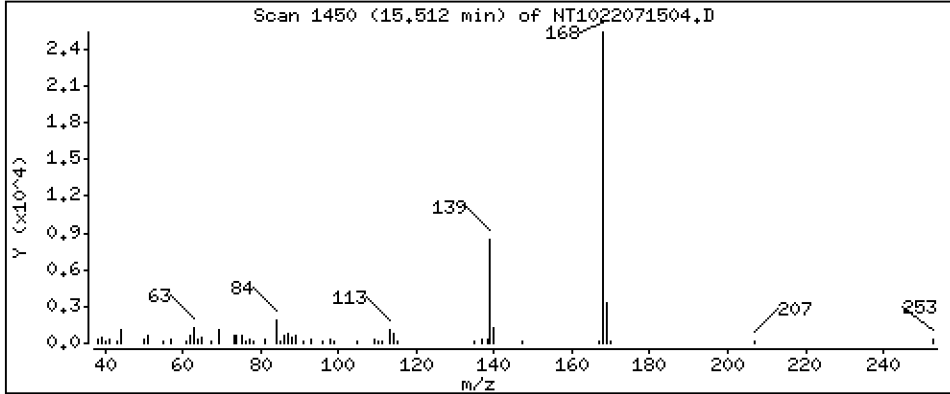
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1922 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

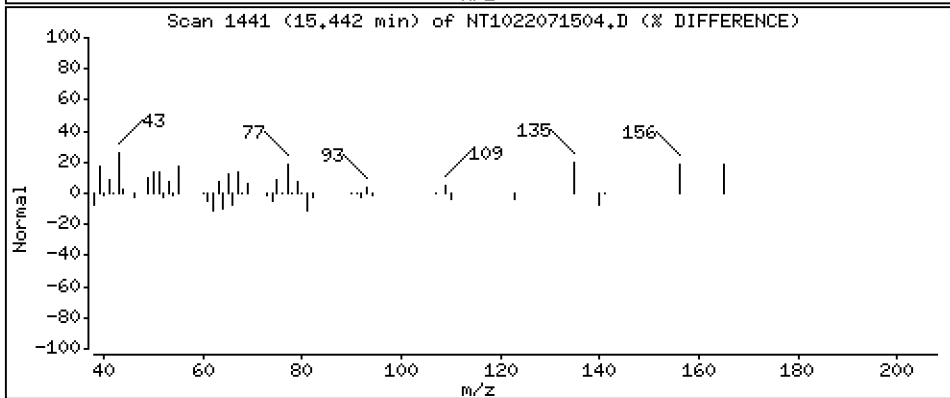
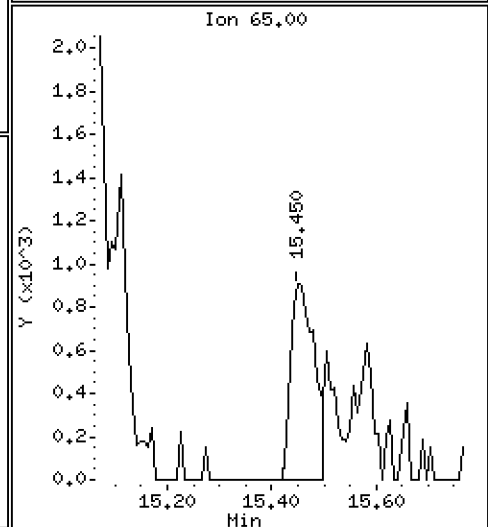
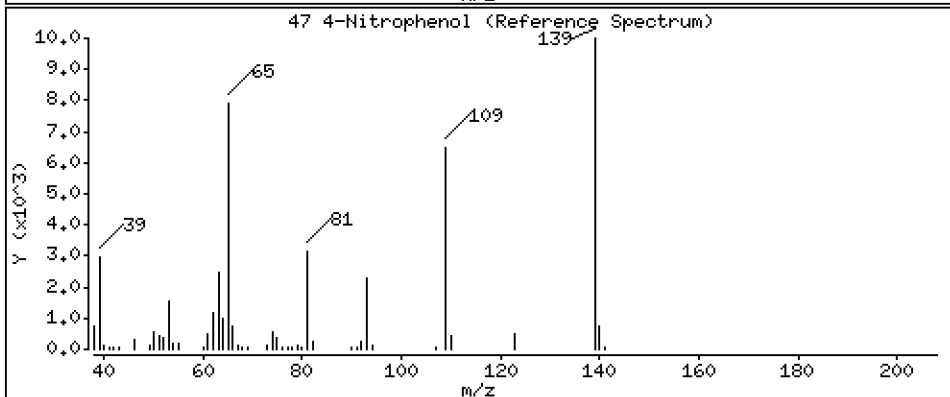
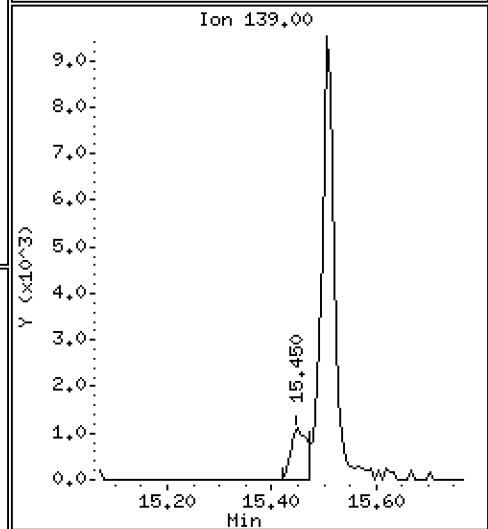
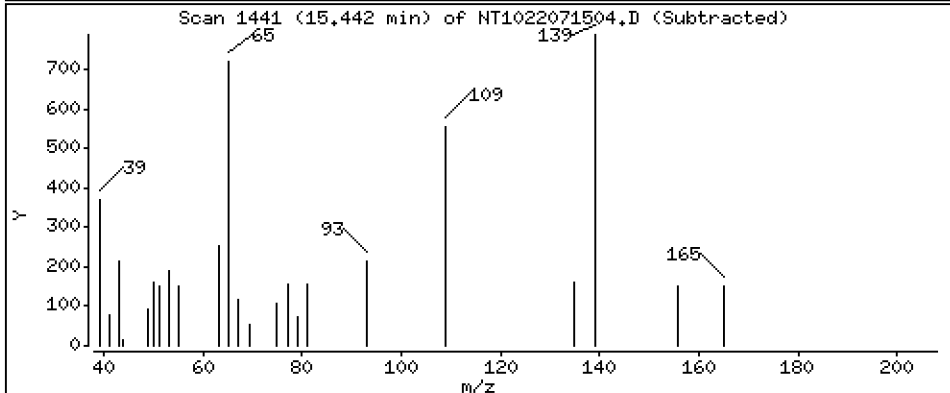
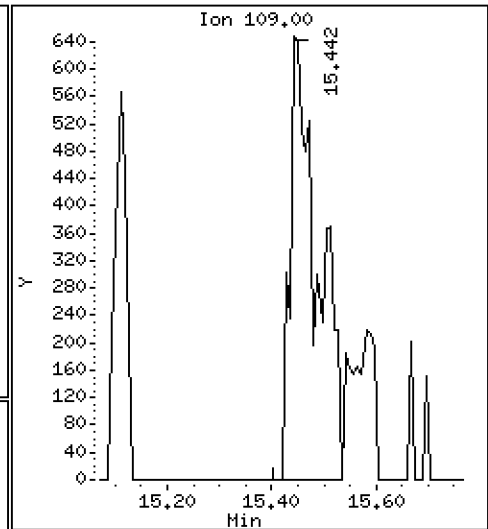
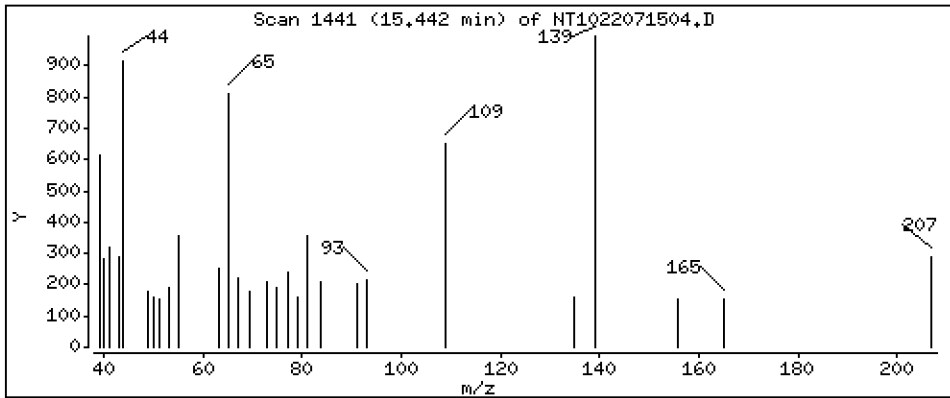
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,1636 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

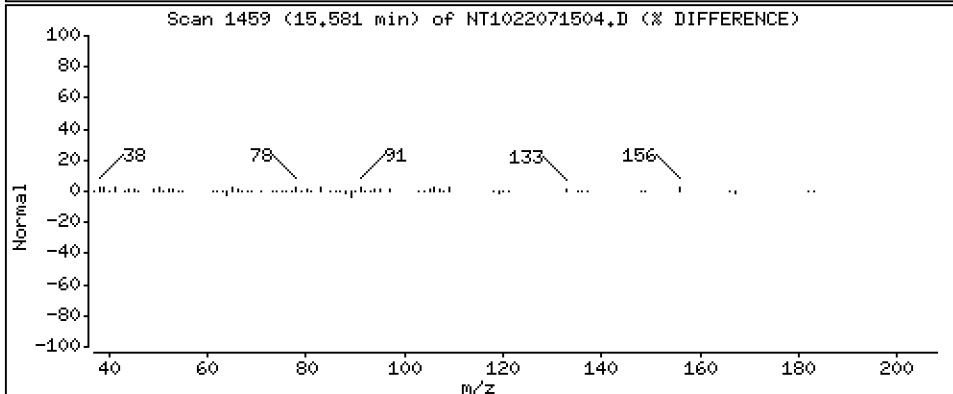
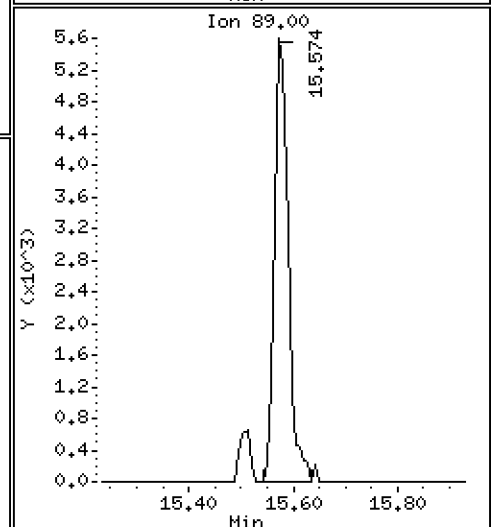
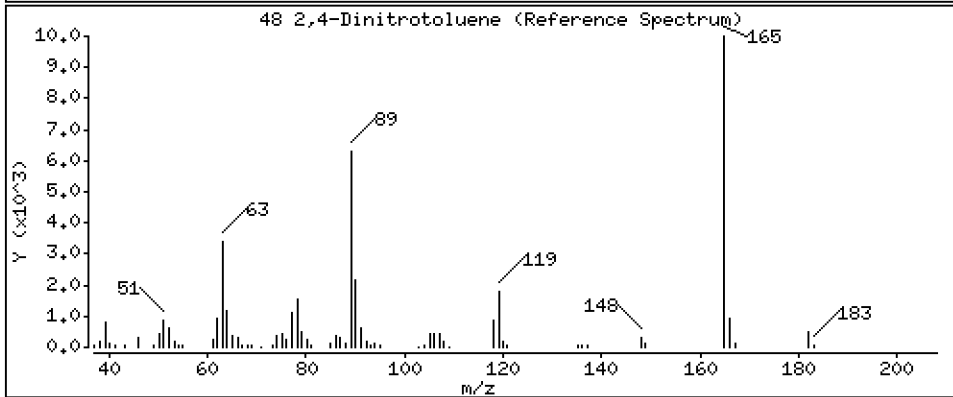
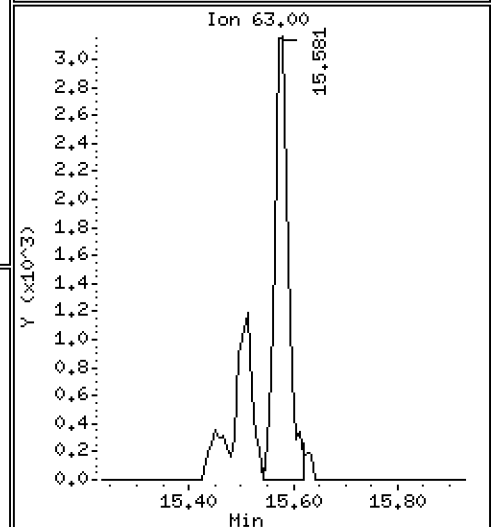
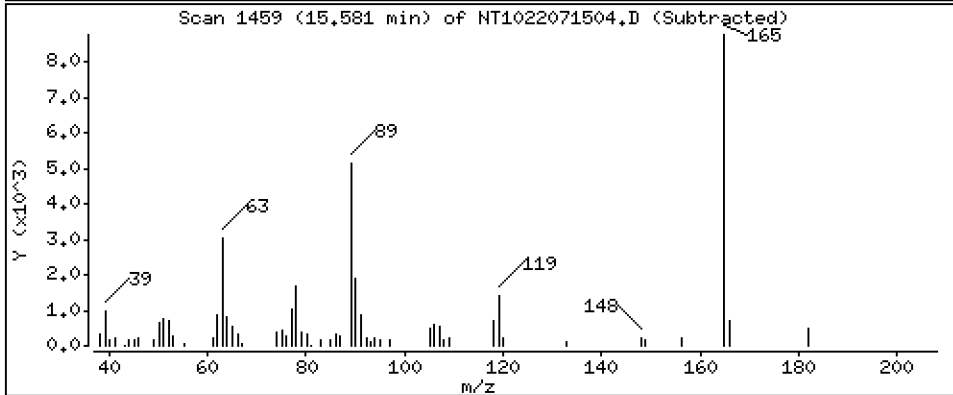
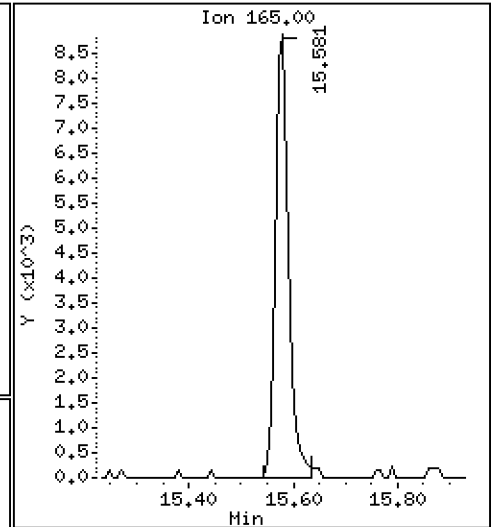
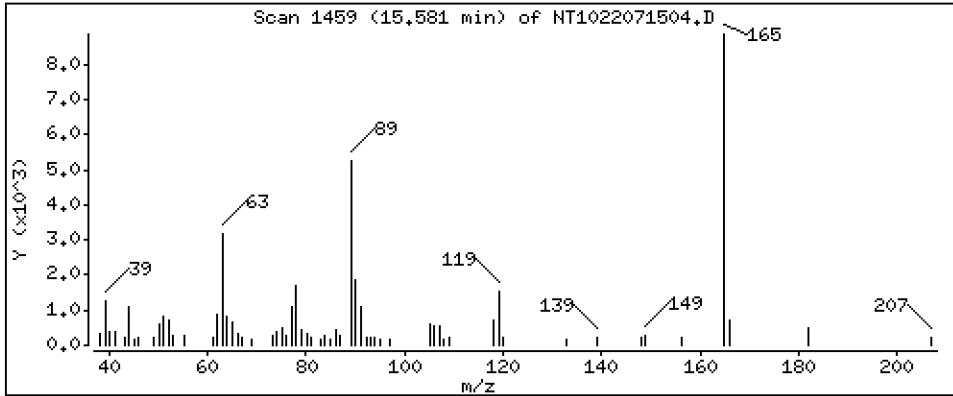
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,2873 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

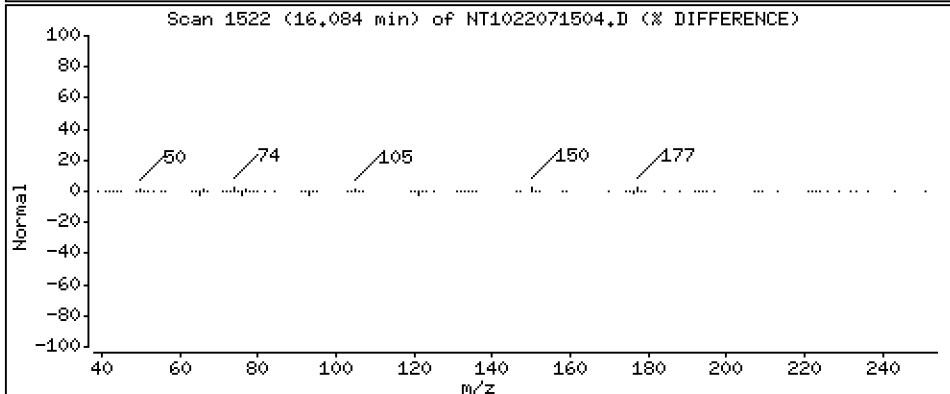
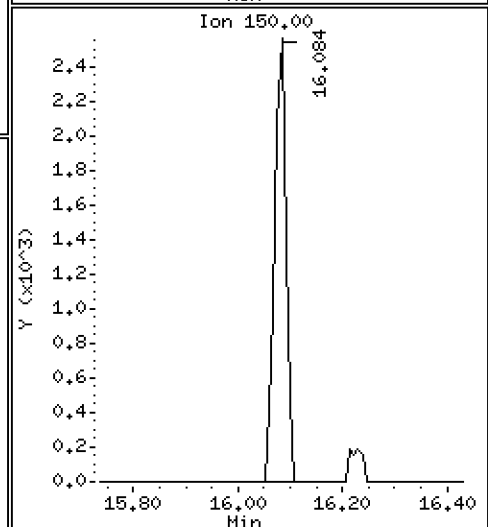
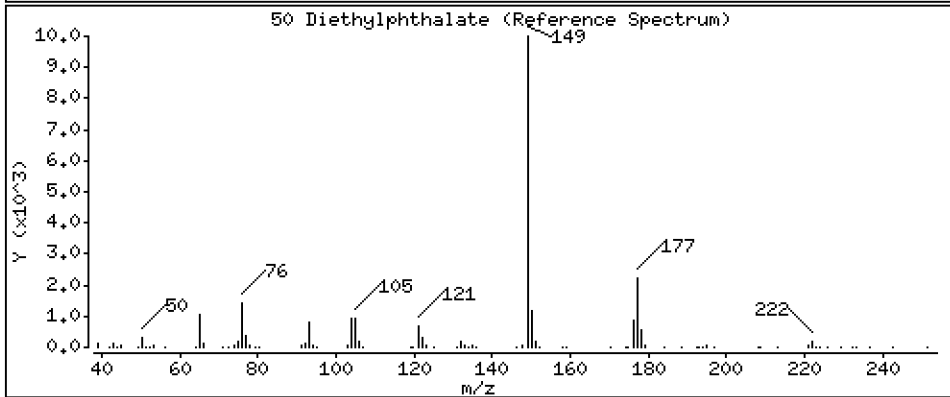
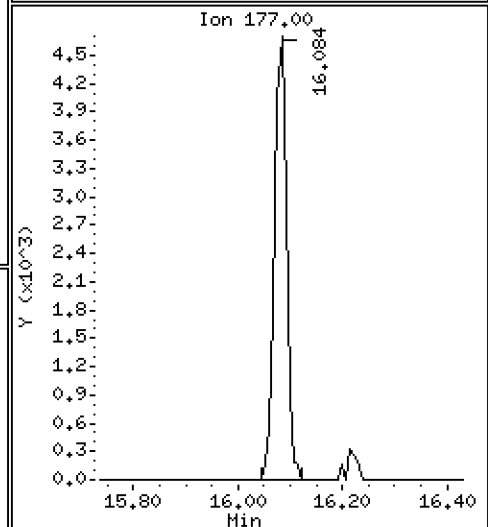
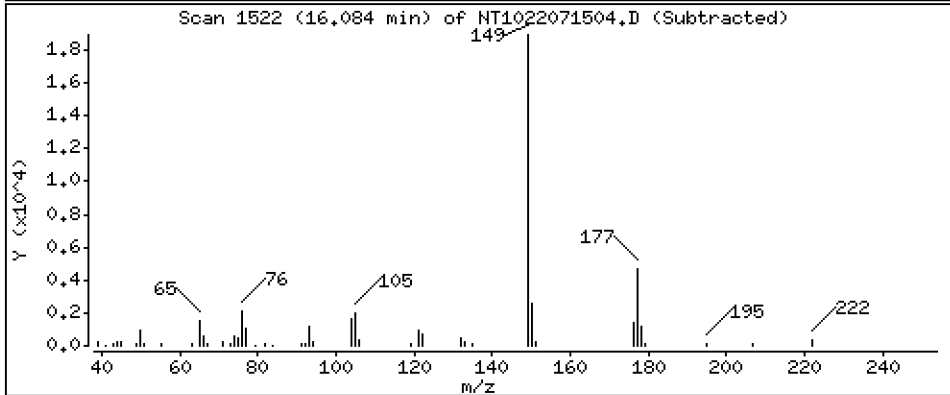
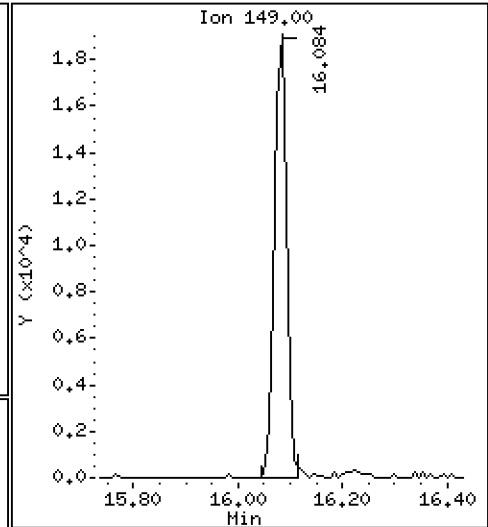
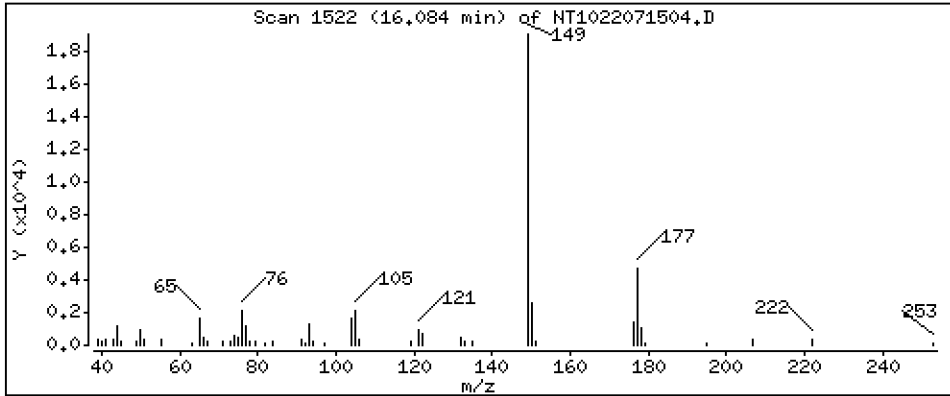
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.2056 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

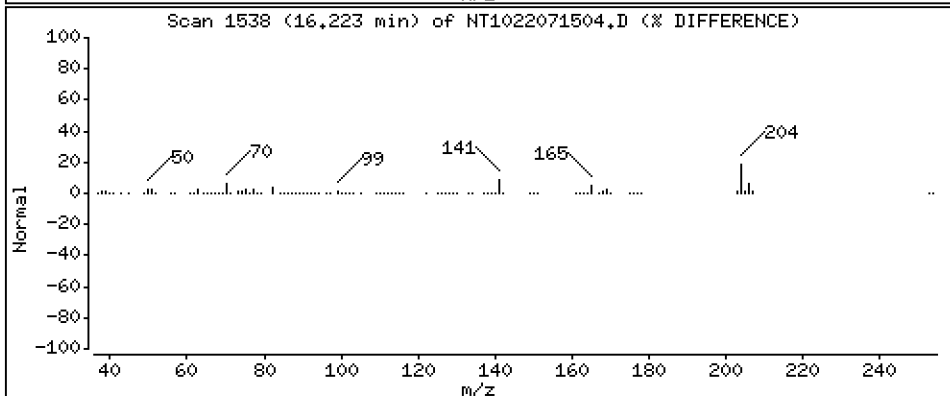
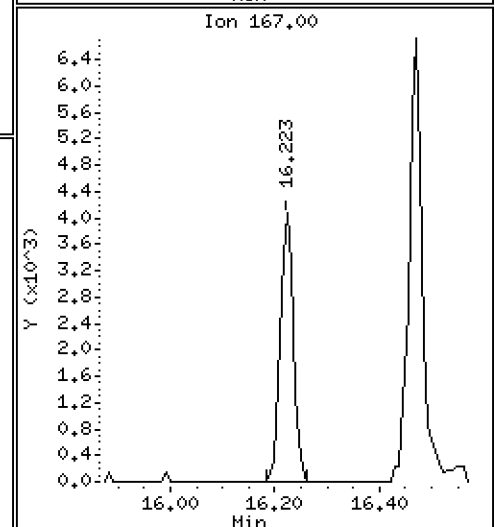
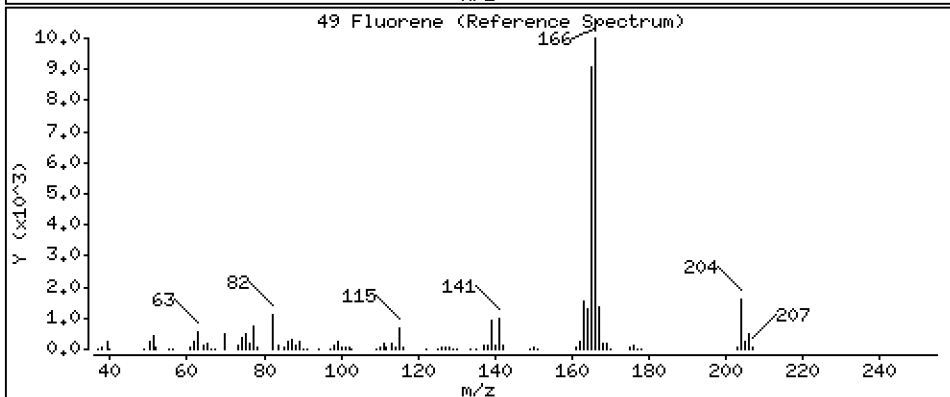
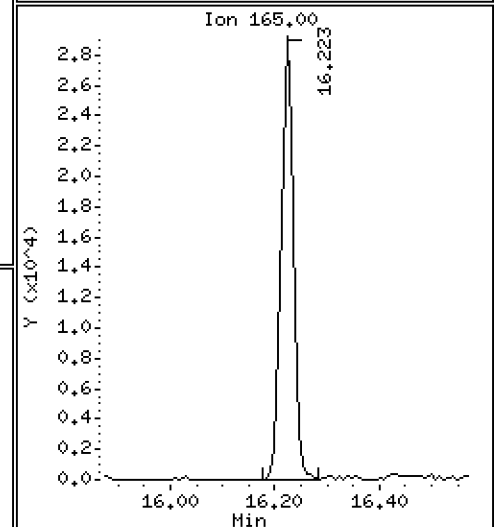
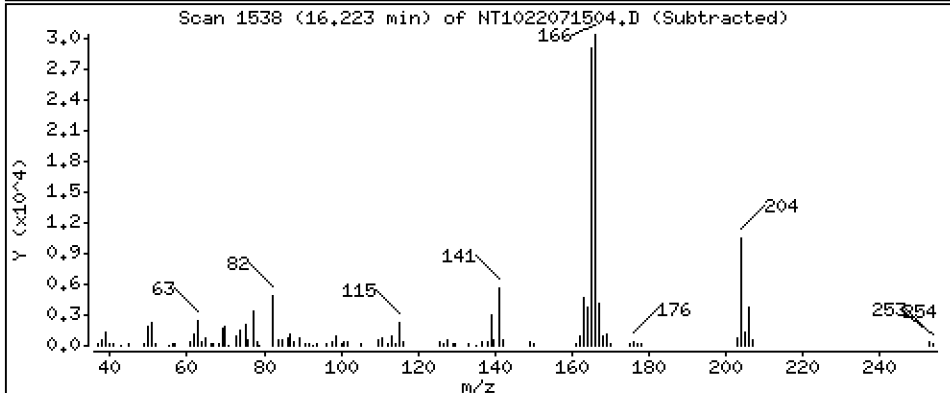
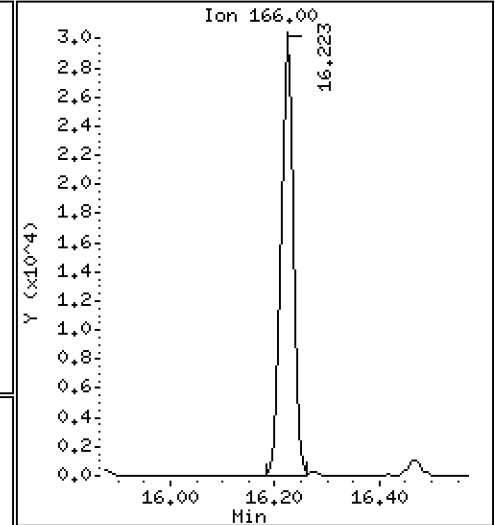
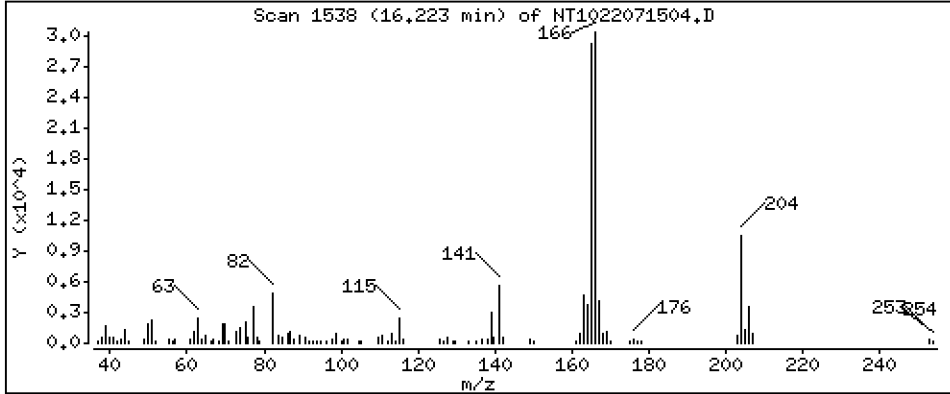
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,1840 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

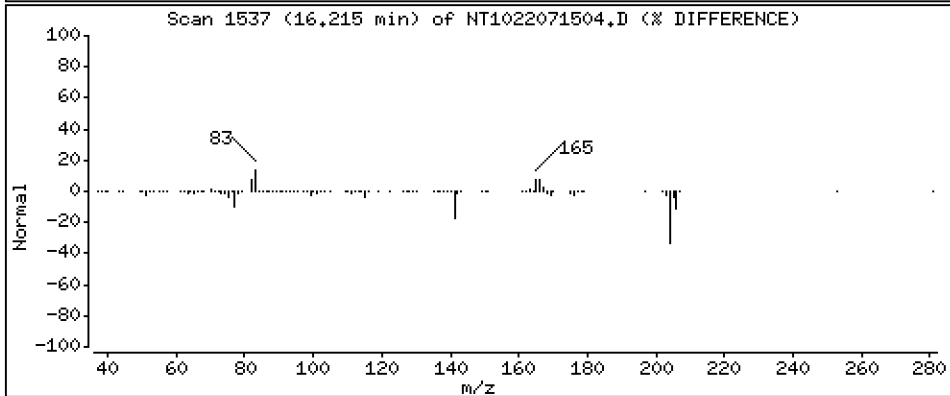
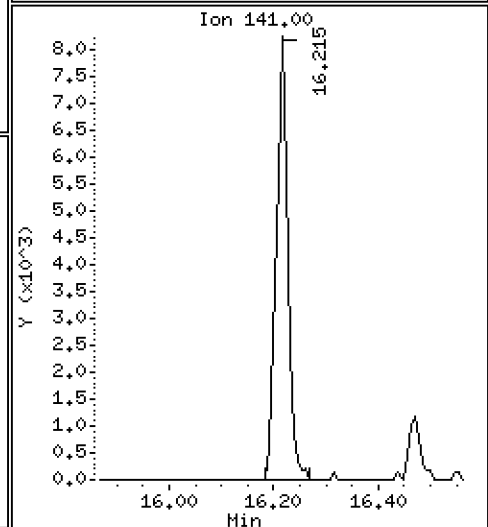
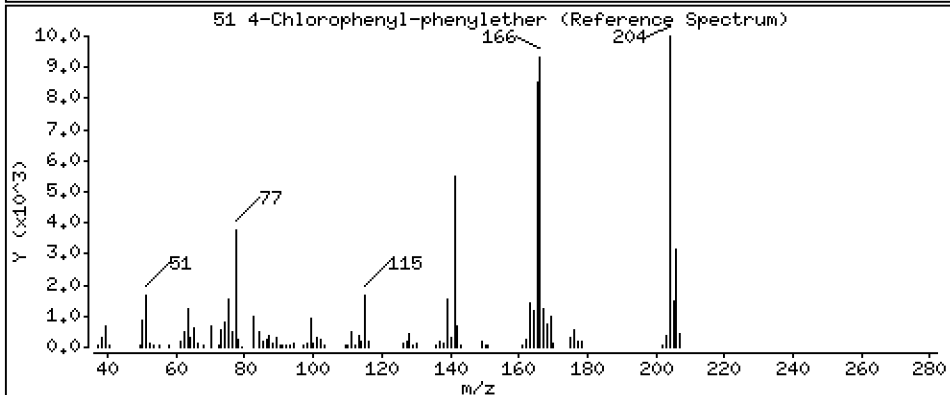
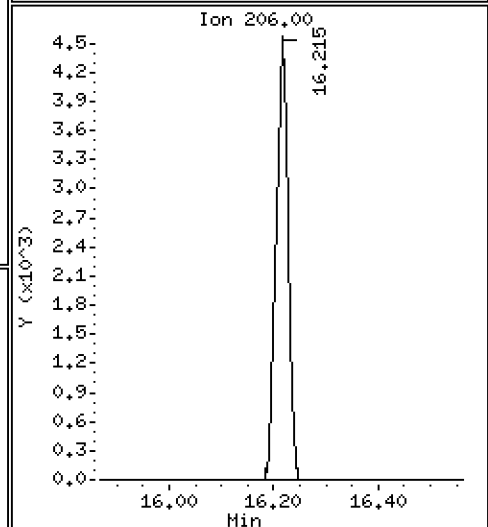
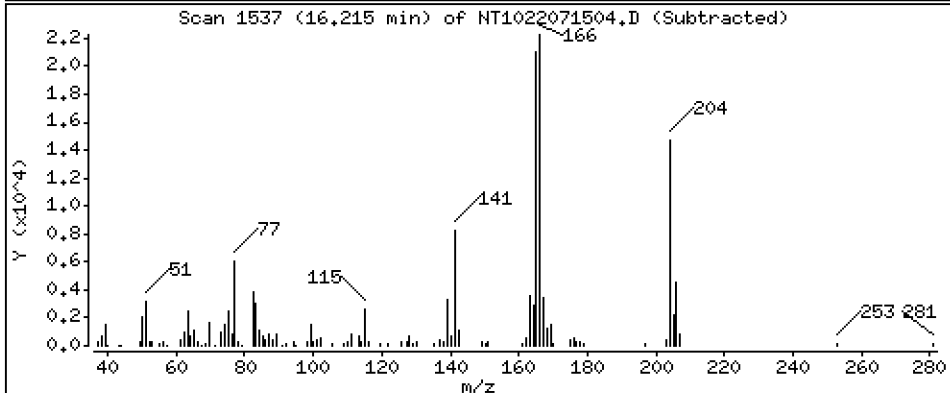
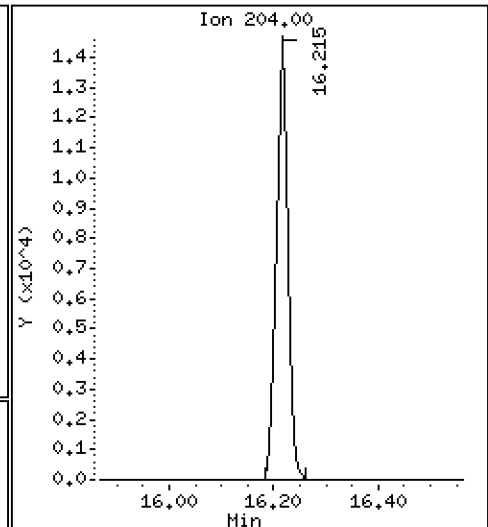
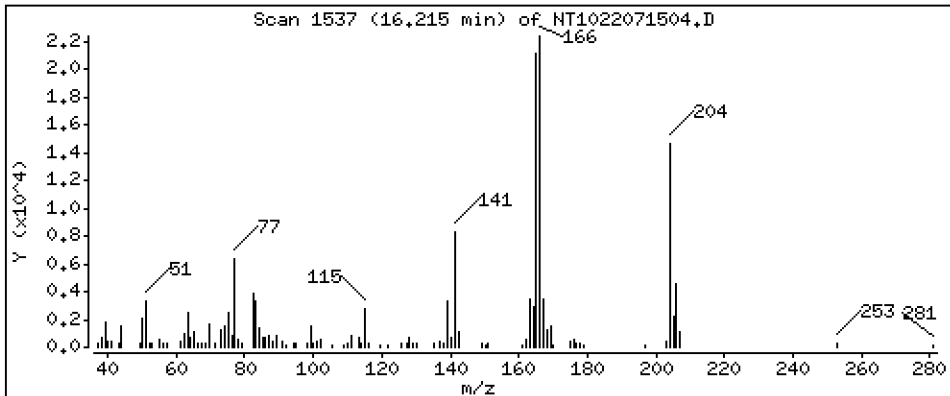
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,1889 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

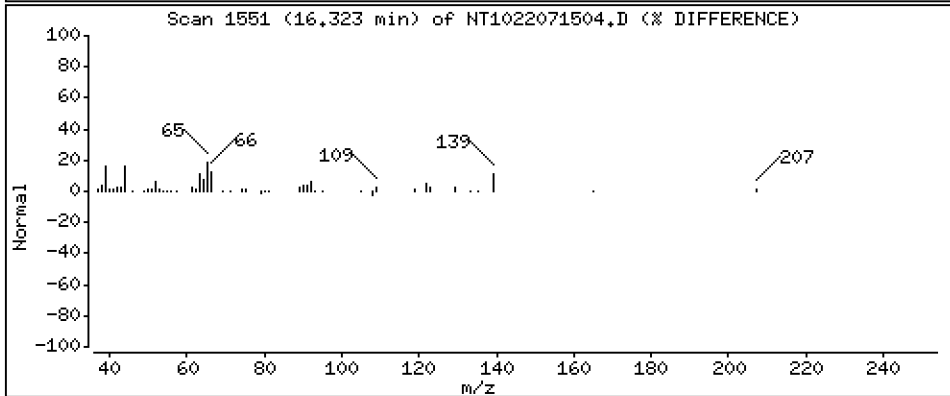
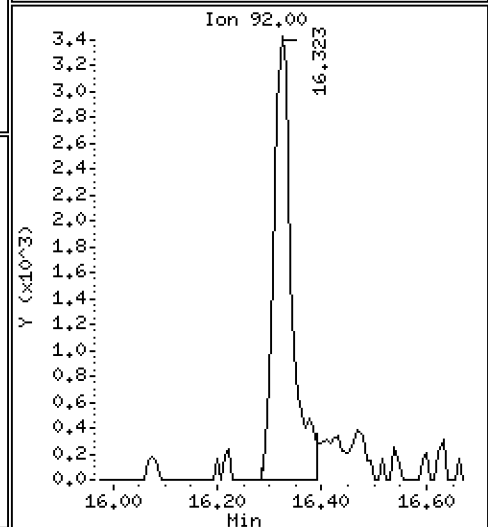
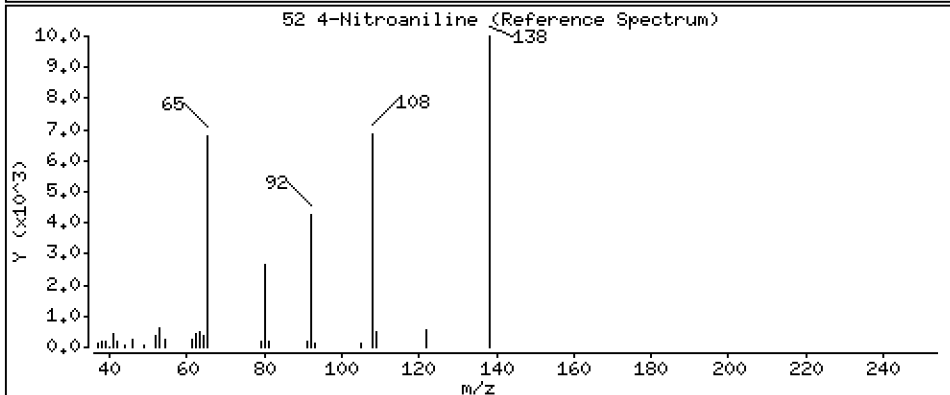
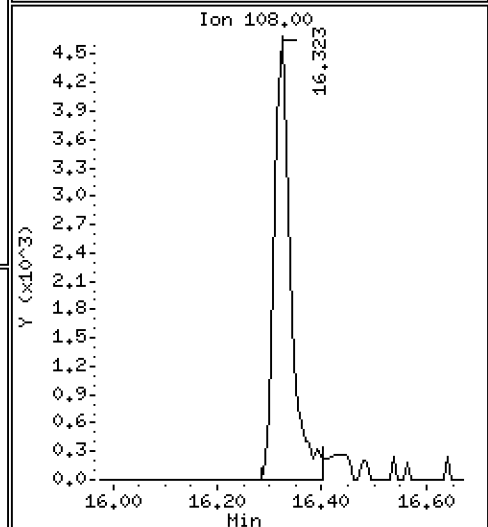
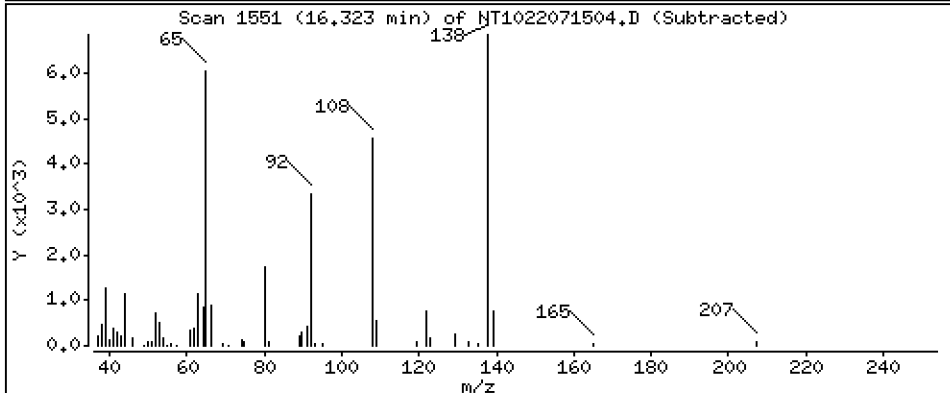
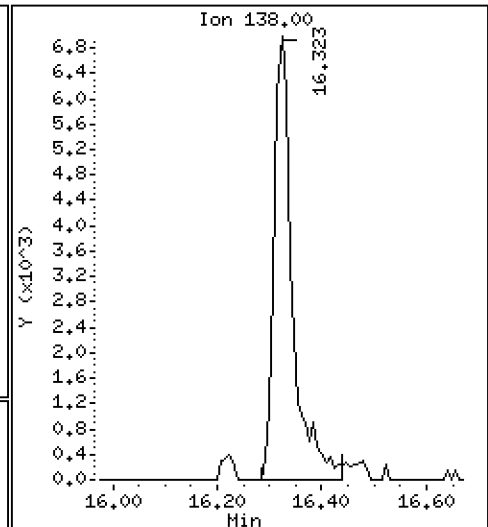
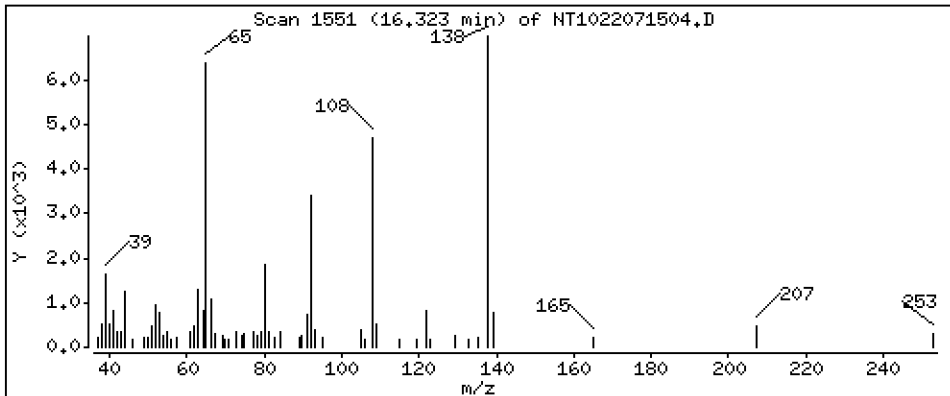
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

52 4-Nitroaniline

Concentration: 0.3668 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

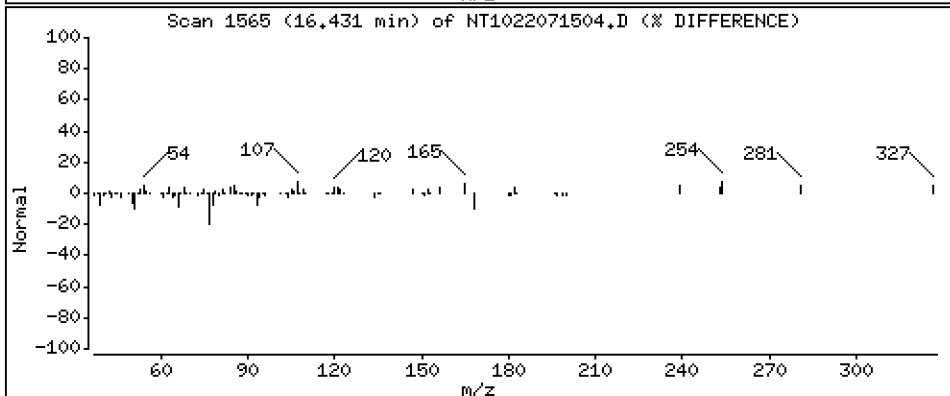
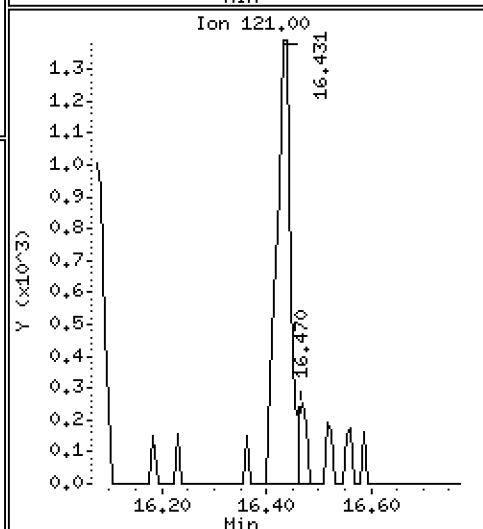
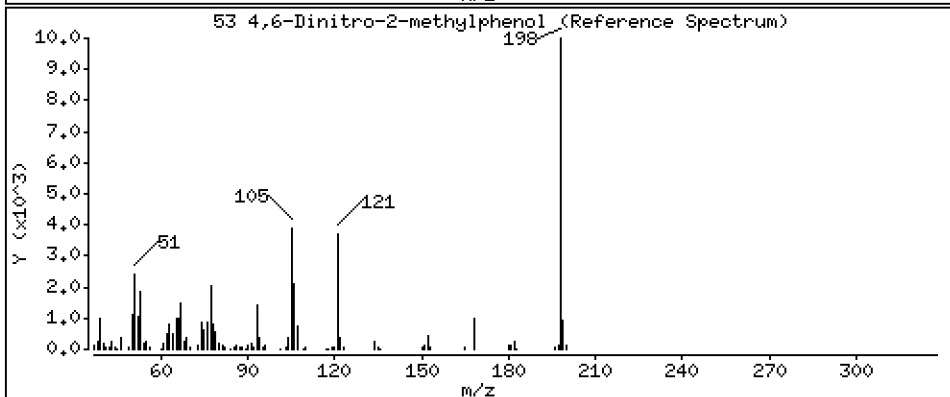
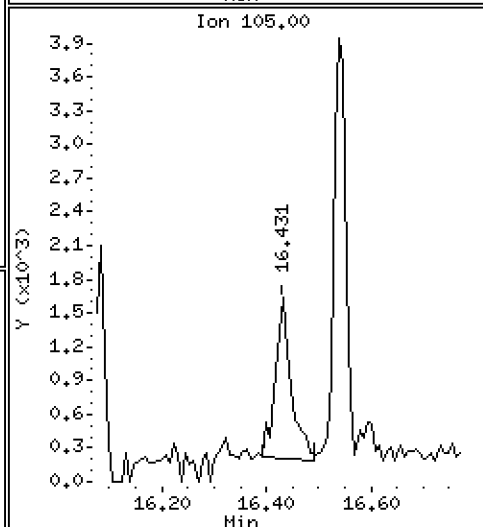
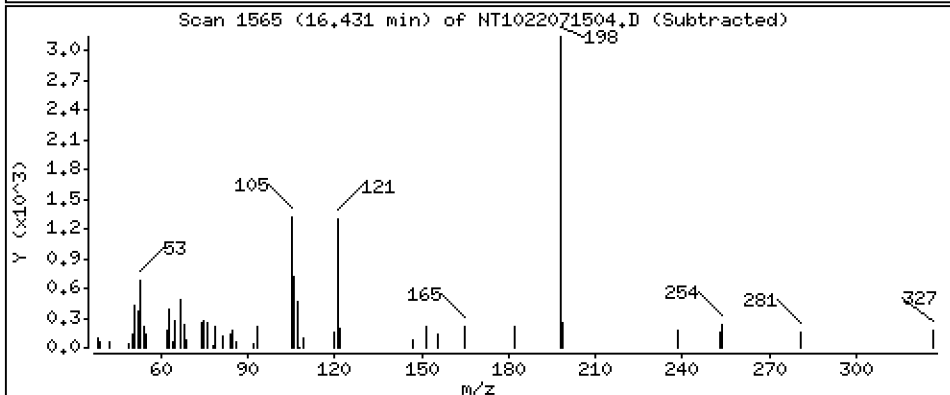
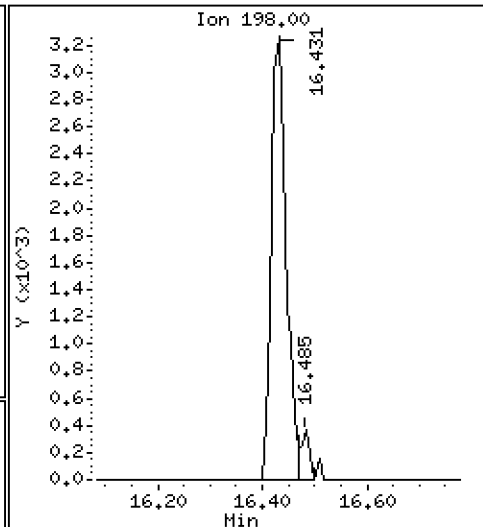
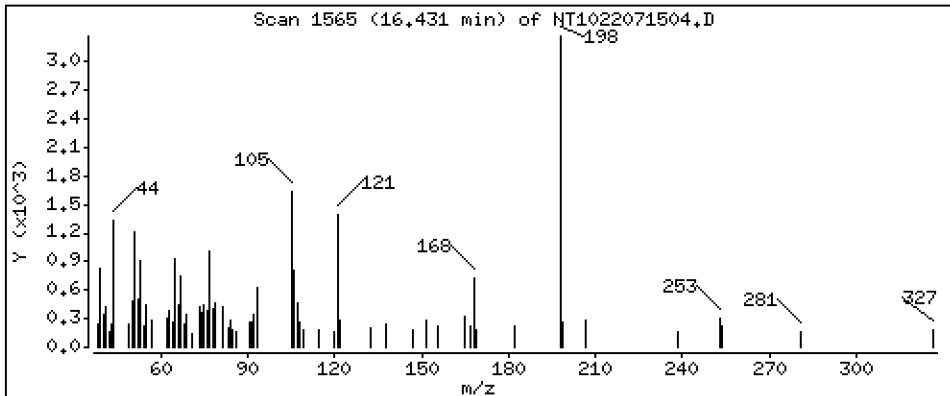
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.1859 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

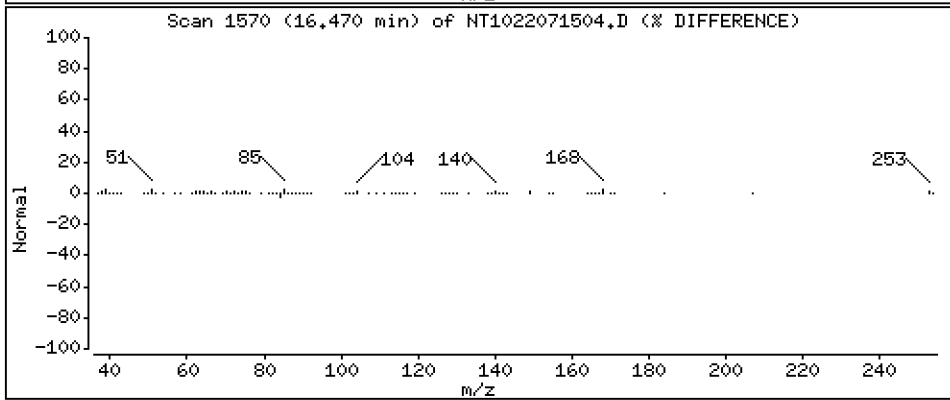
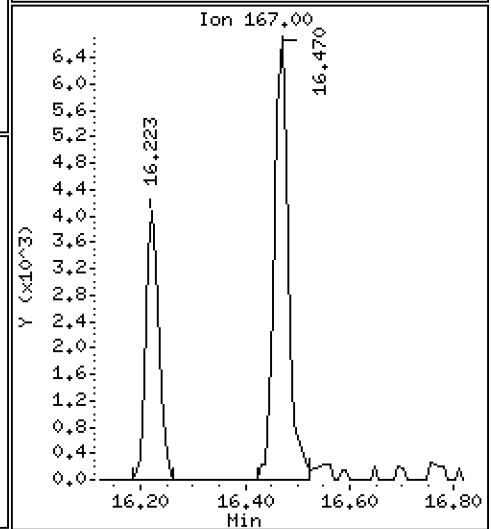
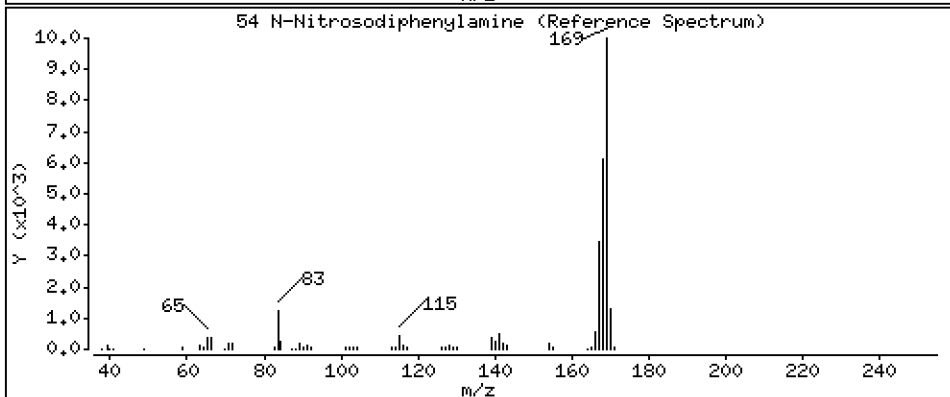
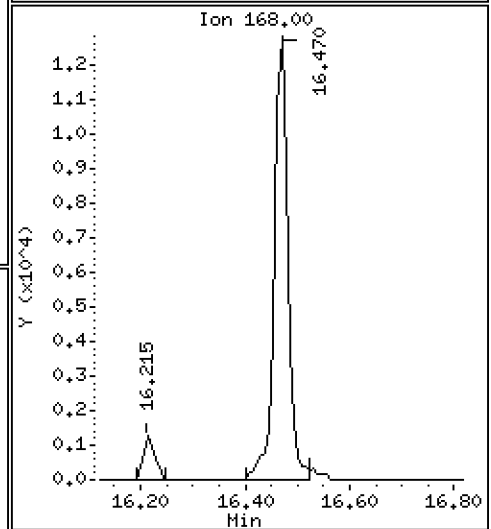
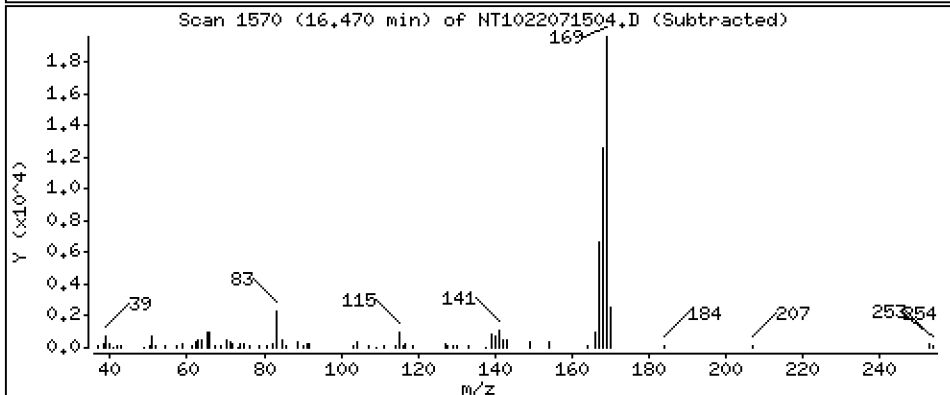
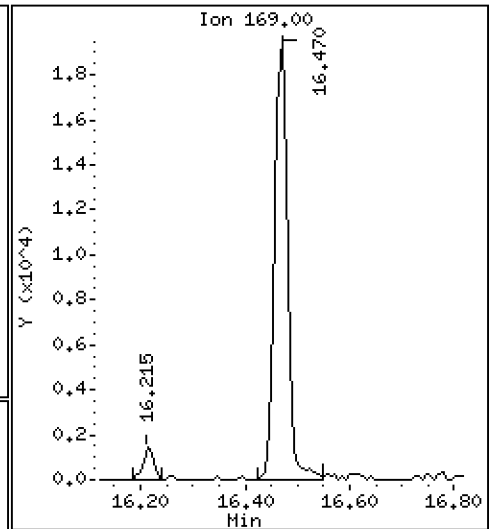
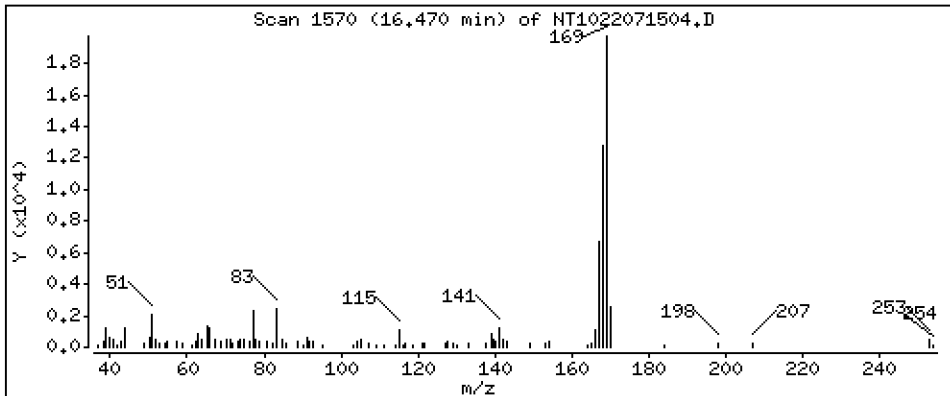
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 0.2425 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

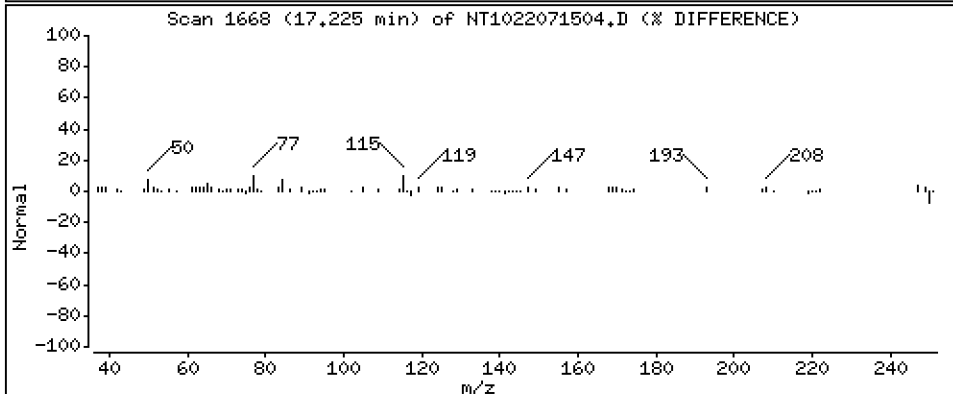
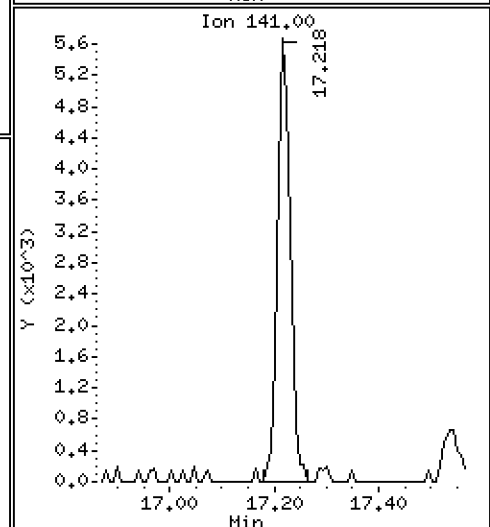
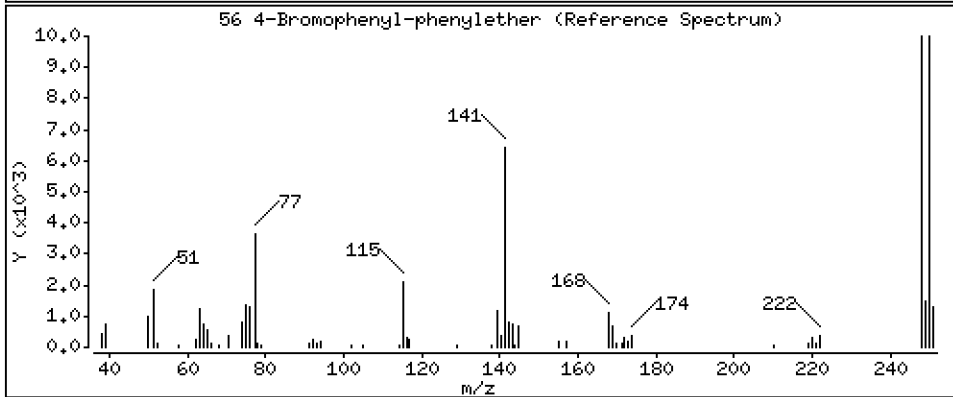
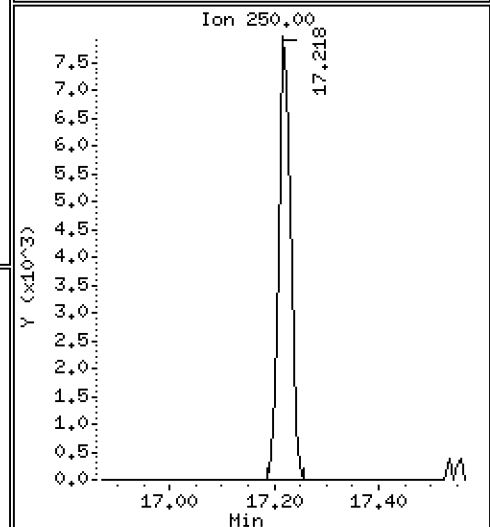
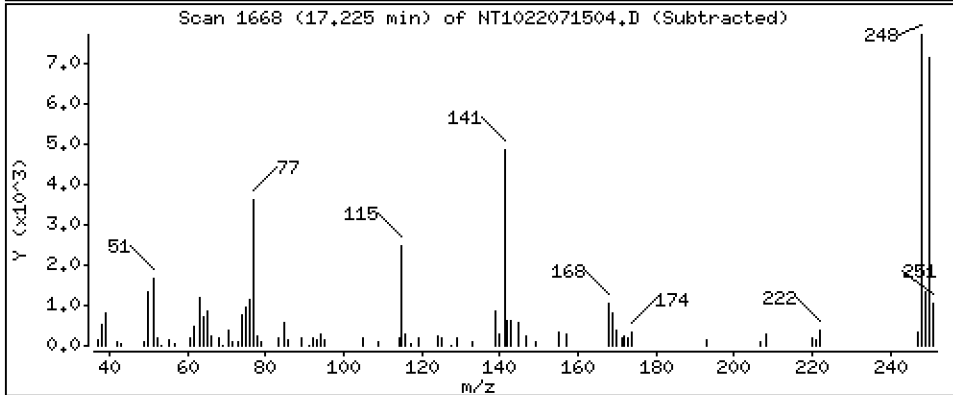
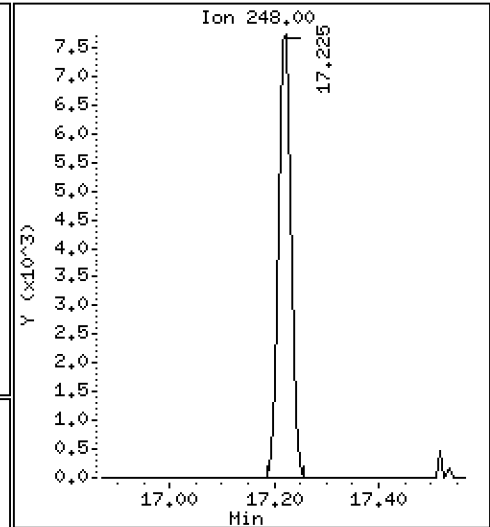
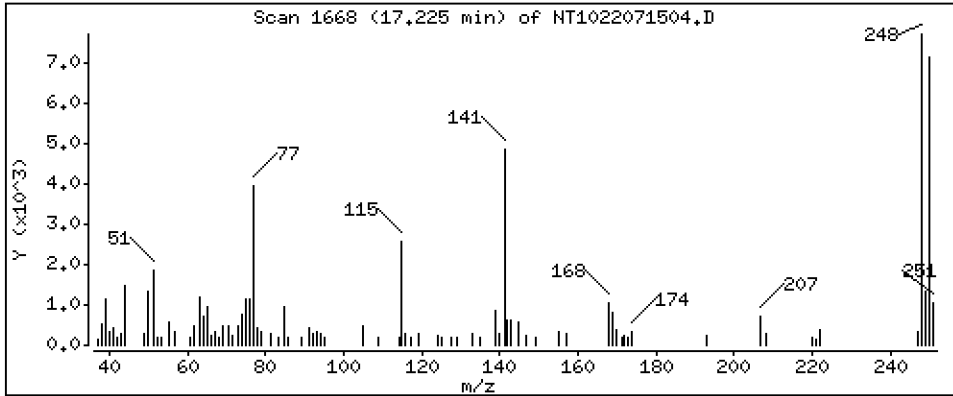
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2017 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

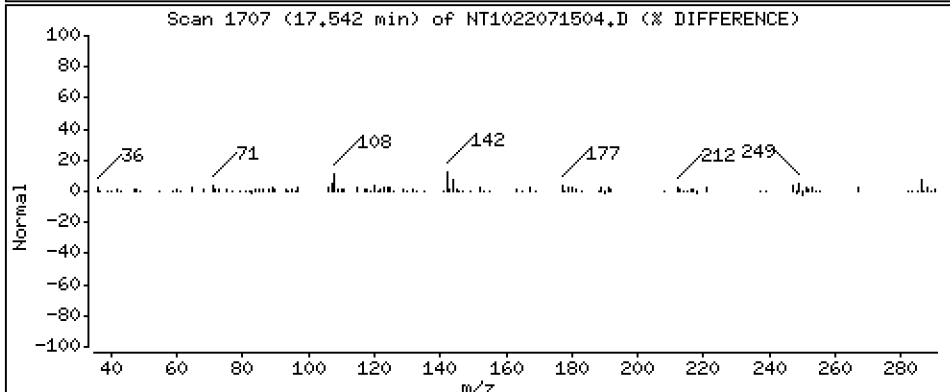
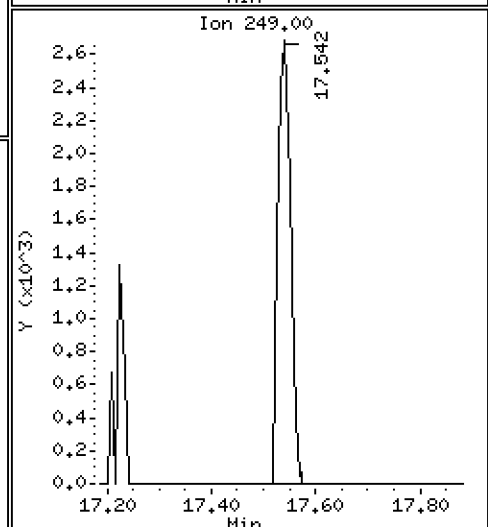
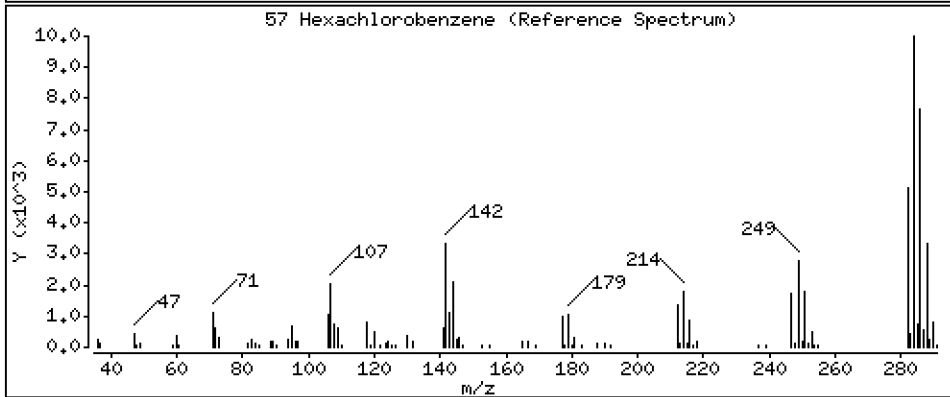
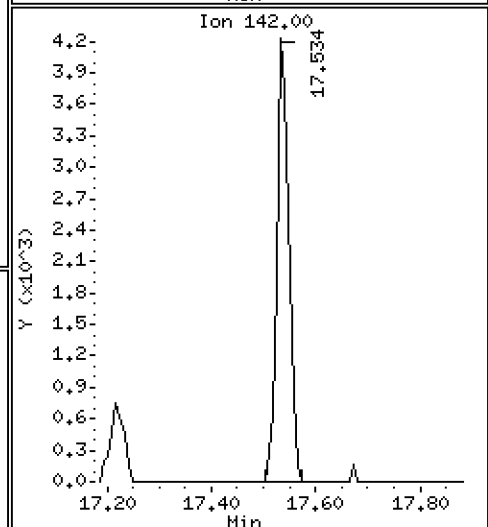
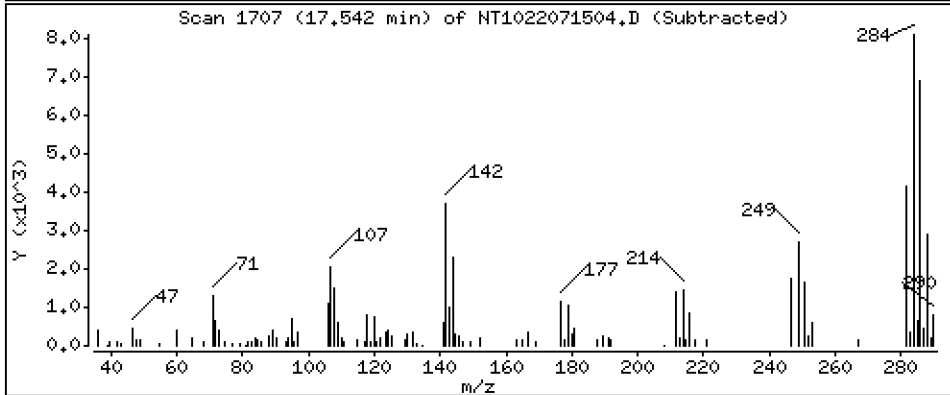
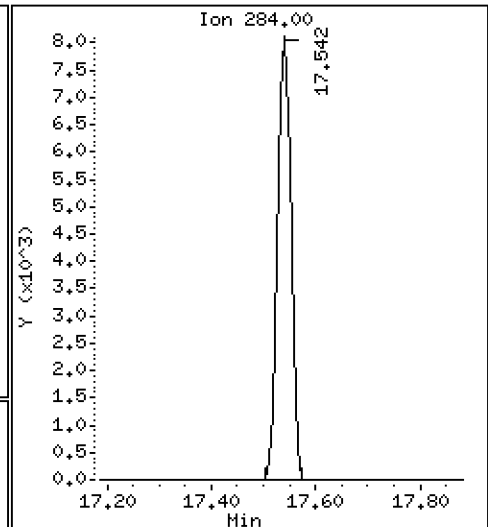
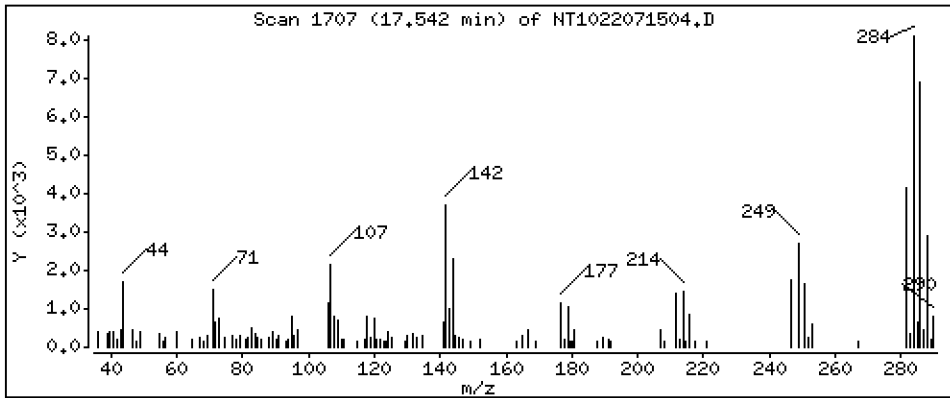
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,2350 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

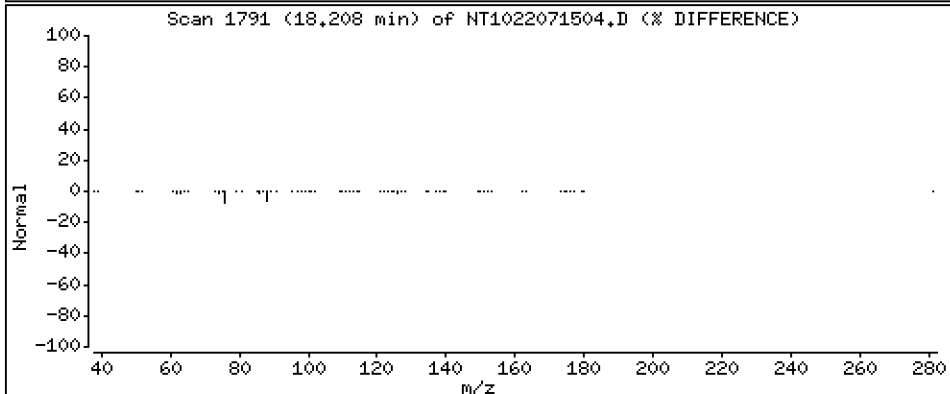
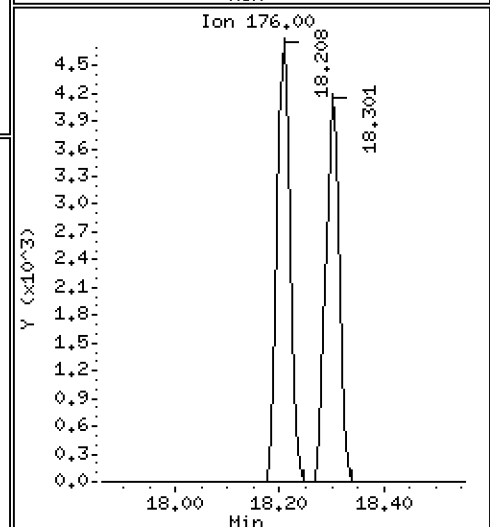
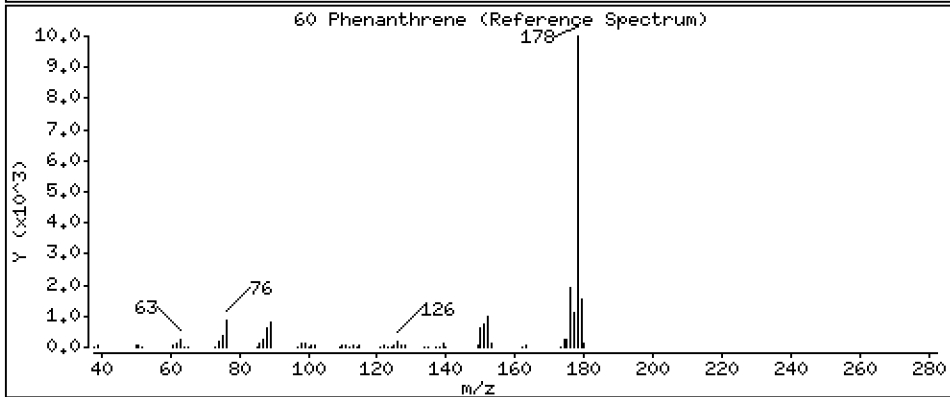
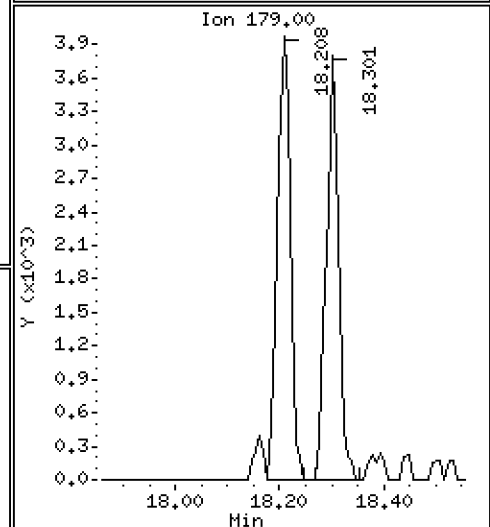
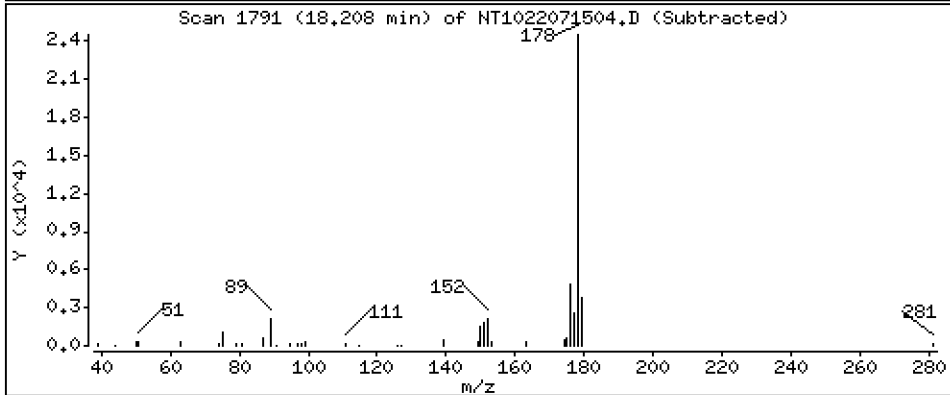
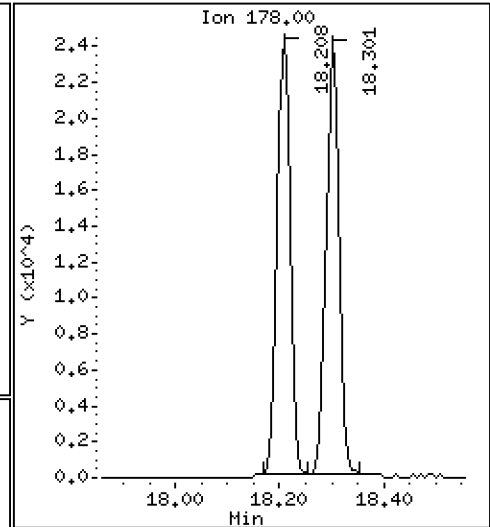
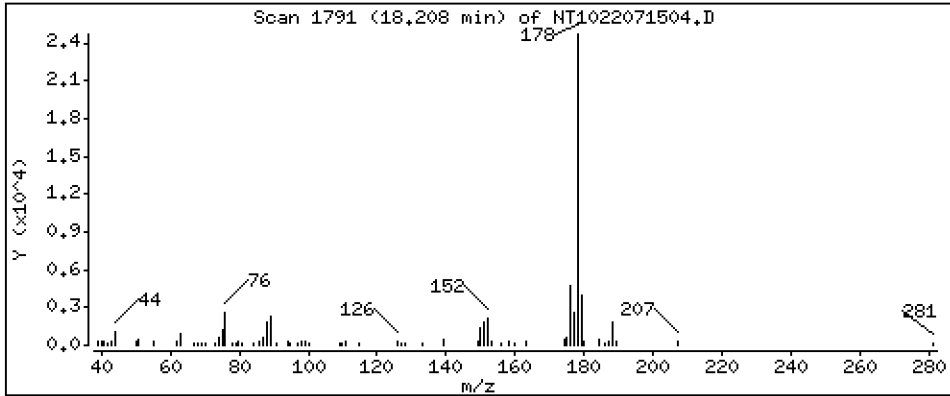
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,1830 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

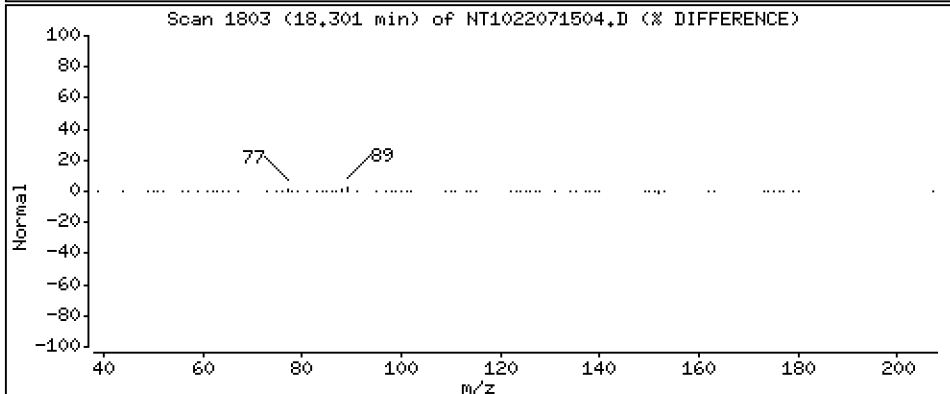
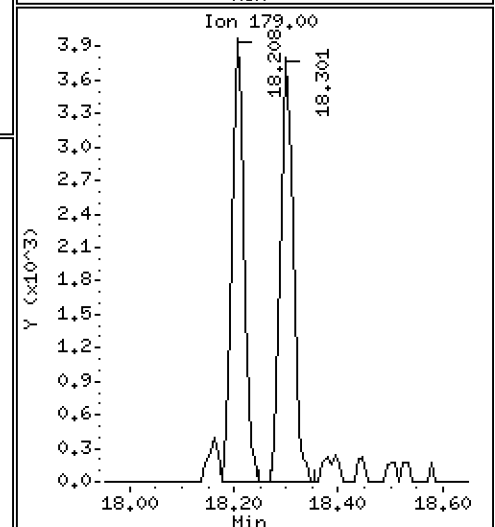
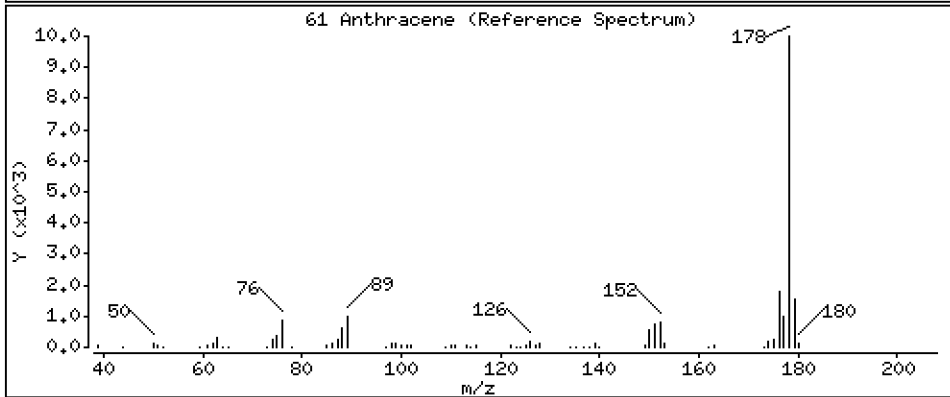
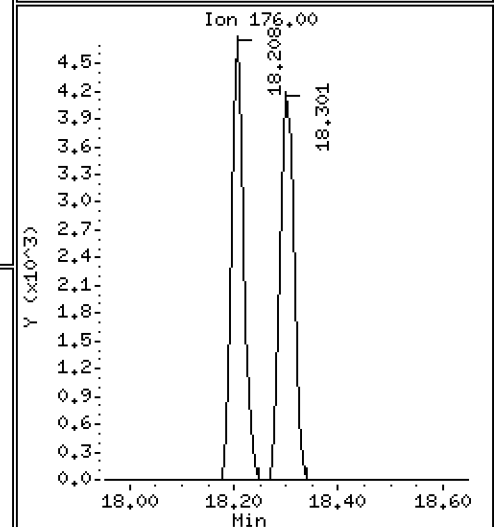
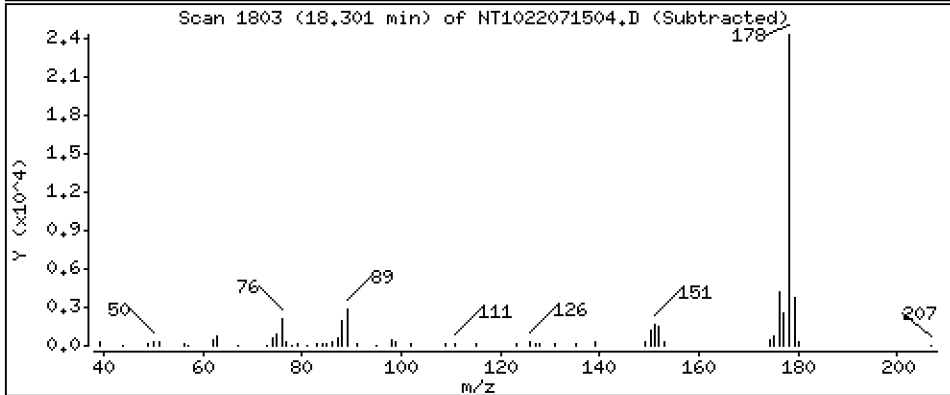
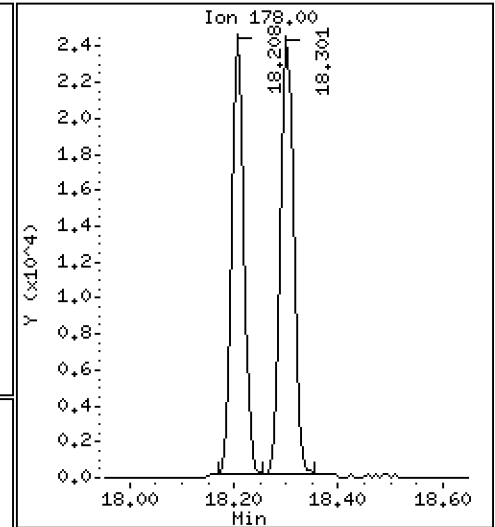
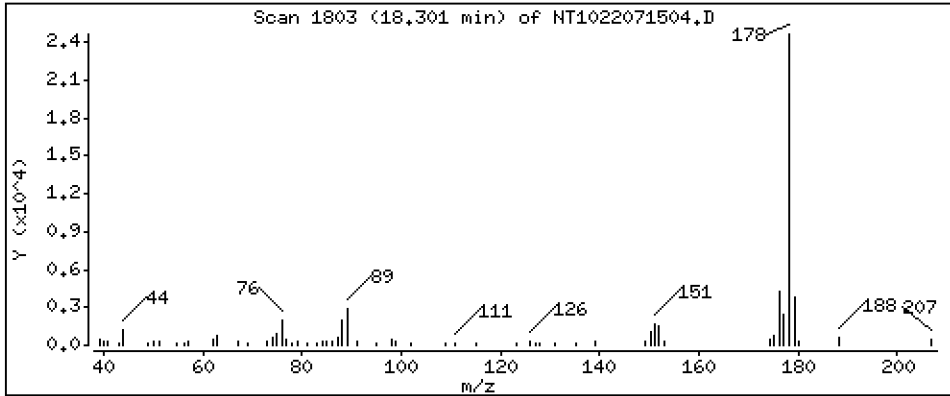
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 0.1735 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

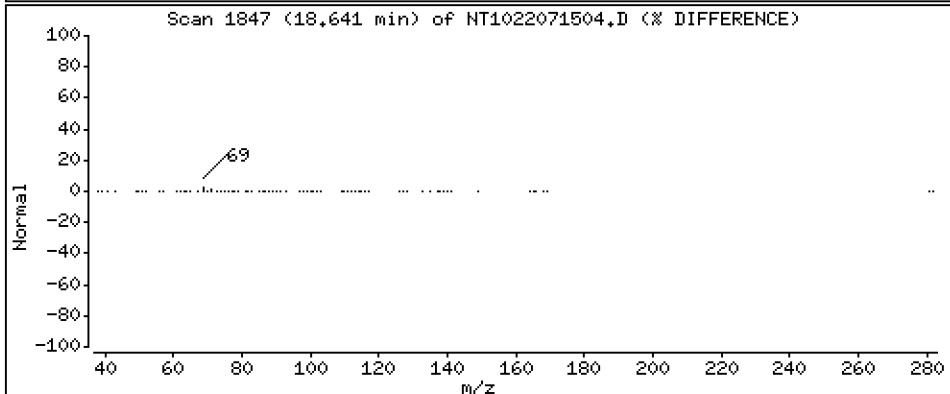
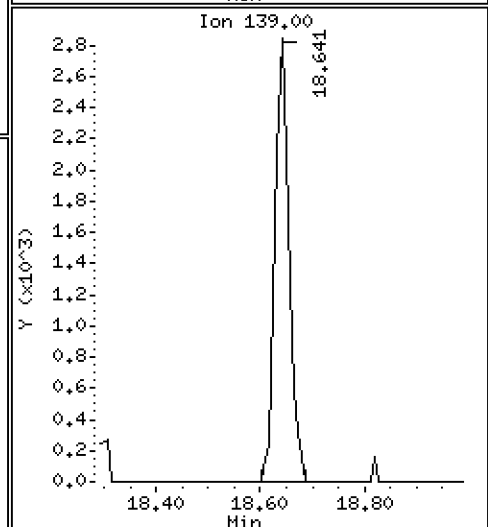
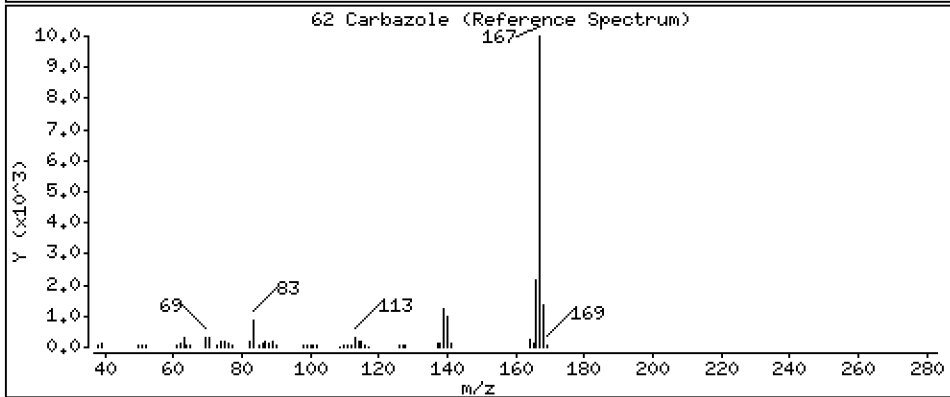
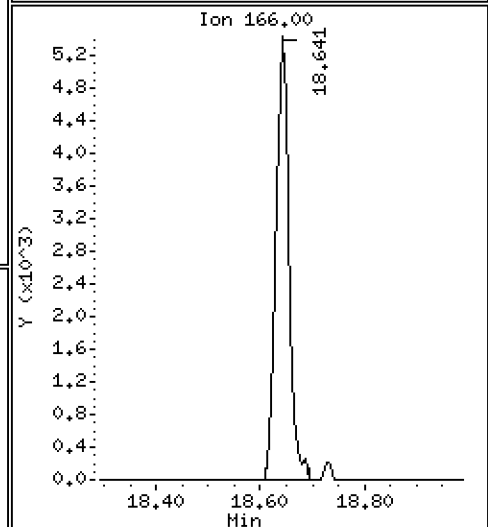
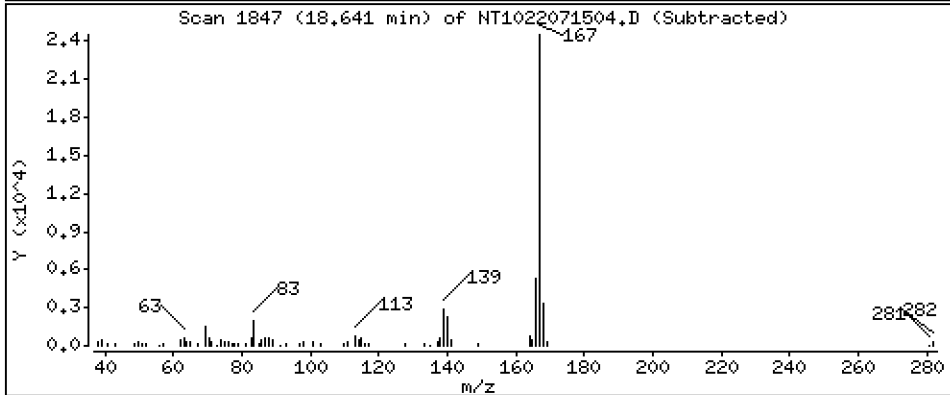
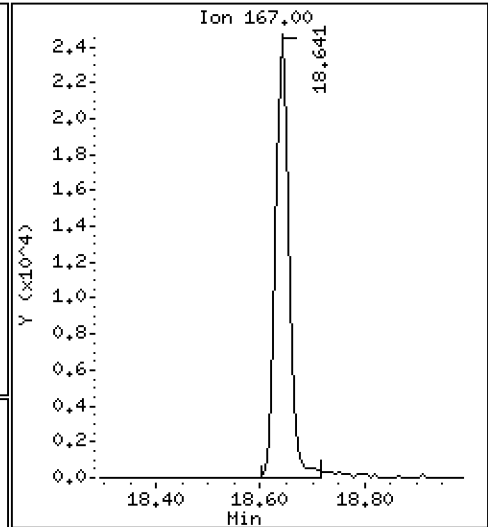
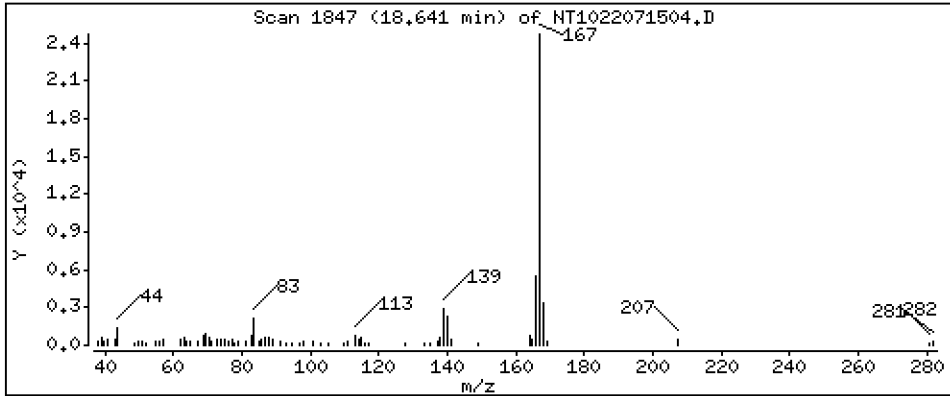
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1948 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

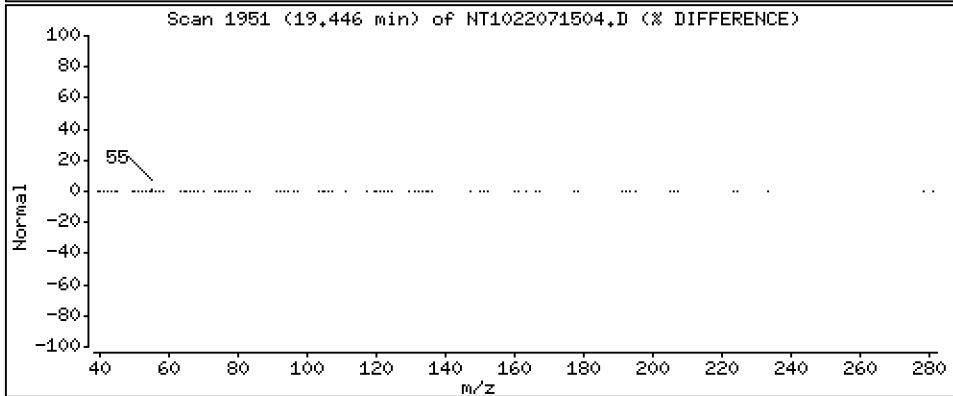
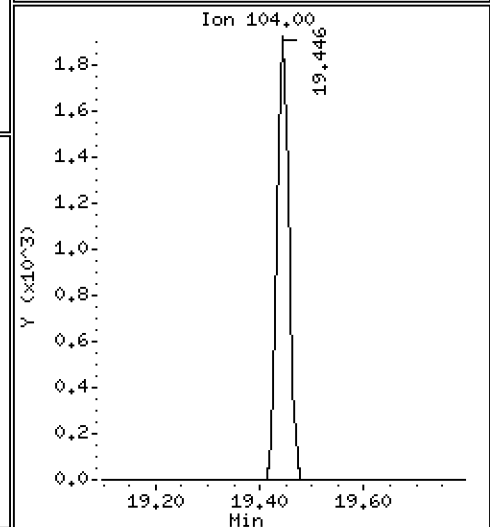
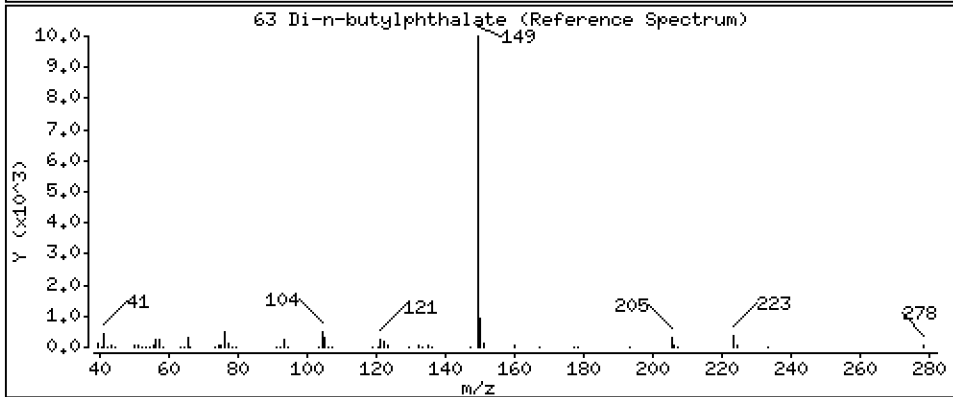
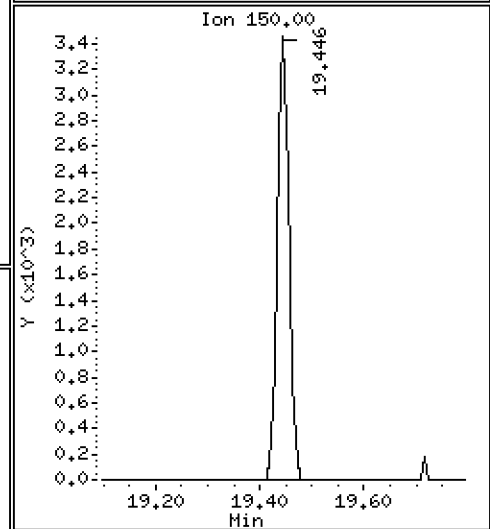
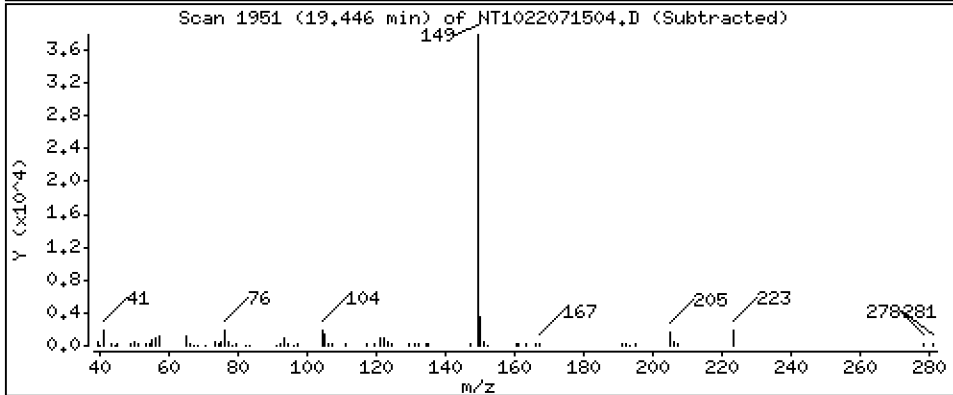
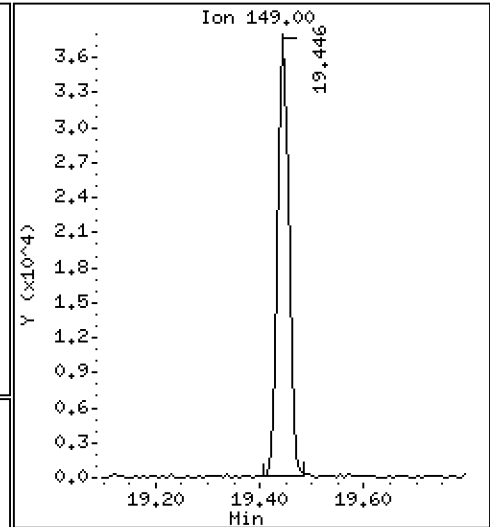
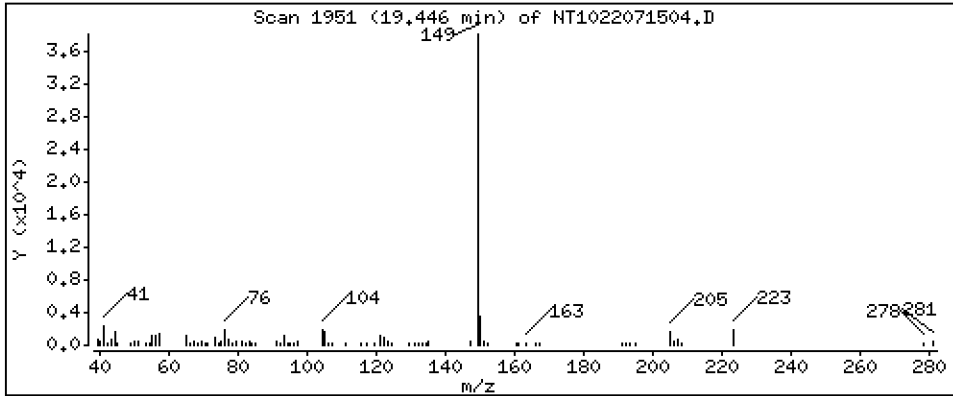
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1614 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

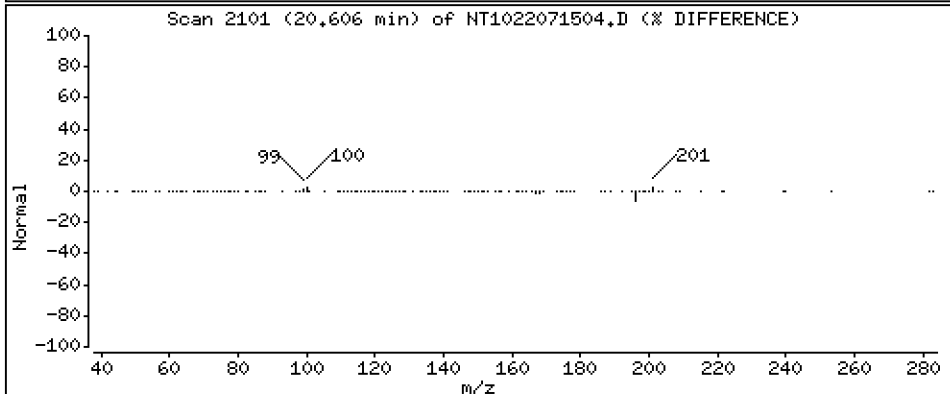
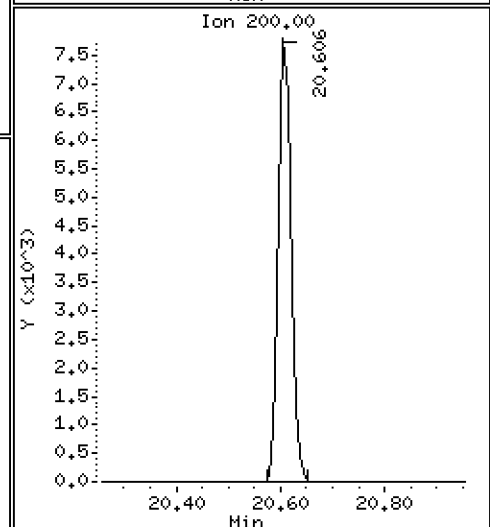
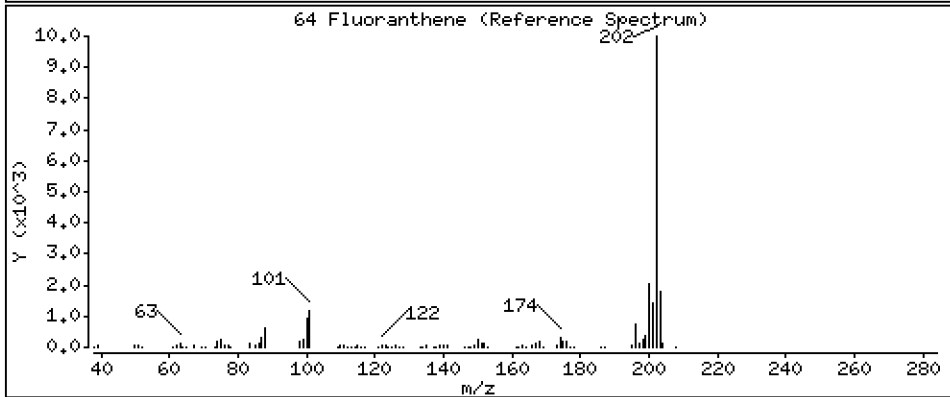
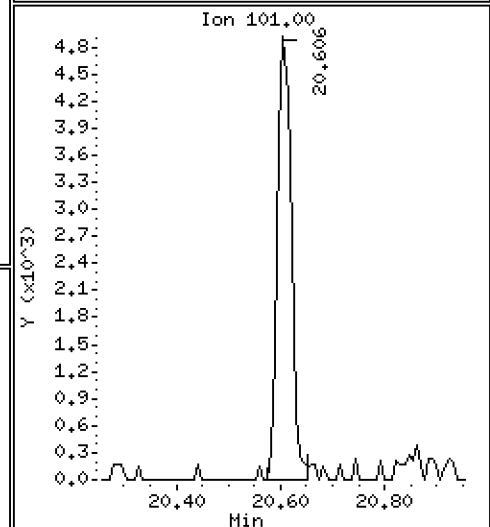
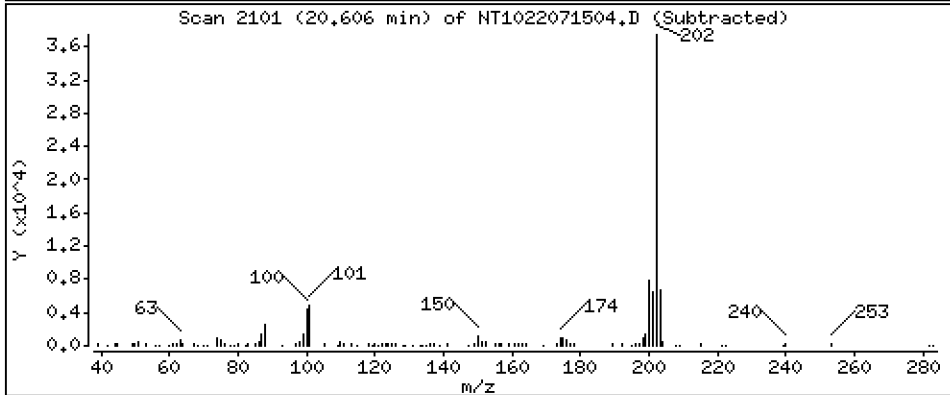
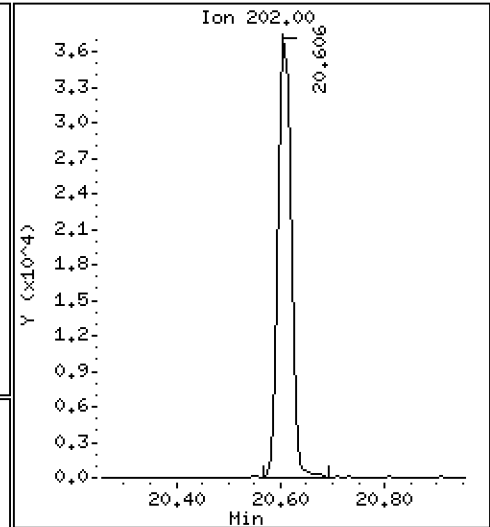
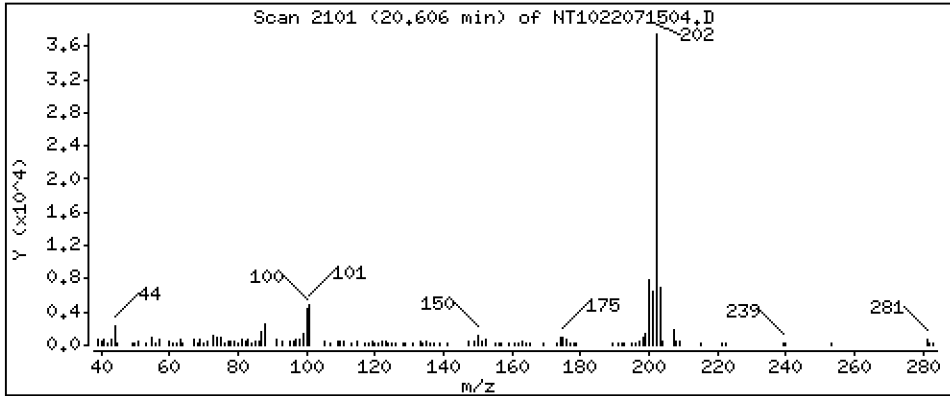
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1859 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

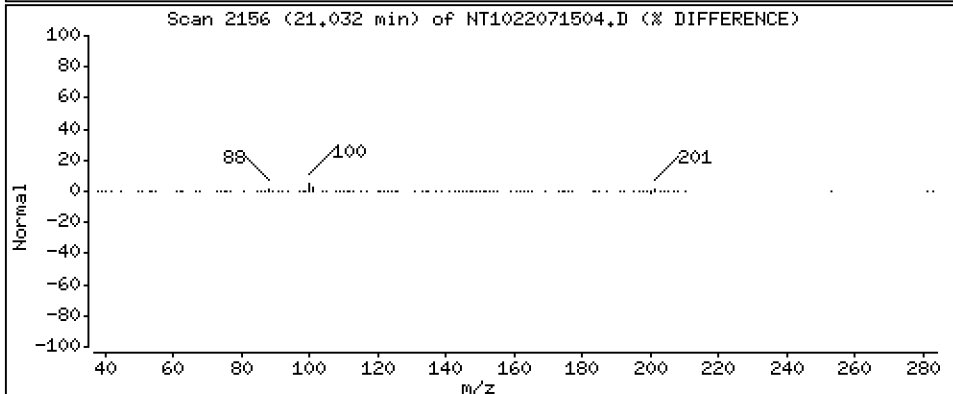
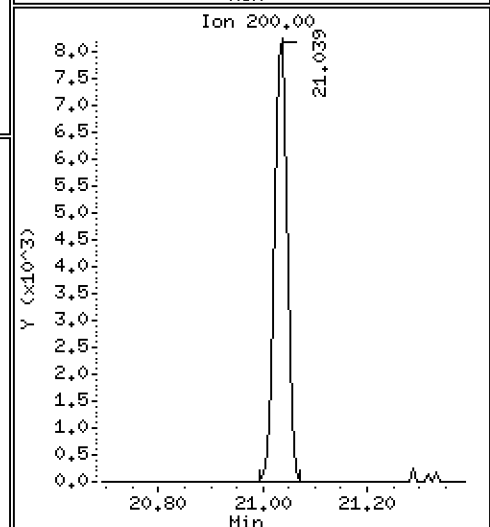
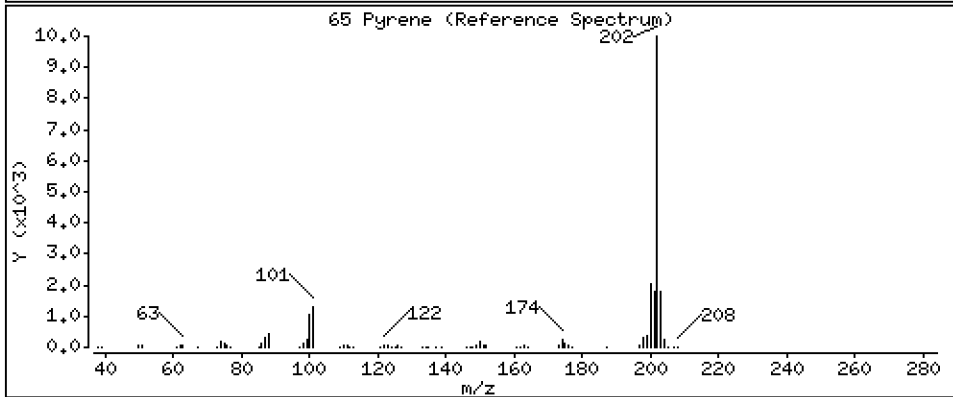
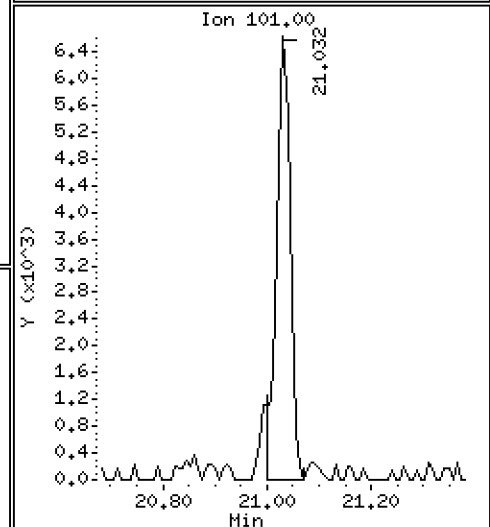
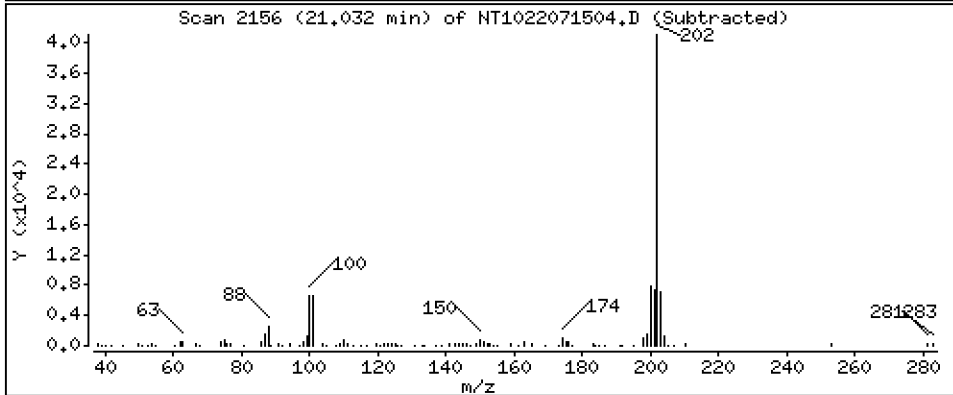
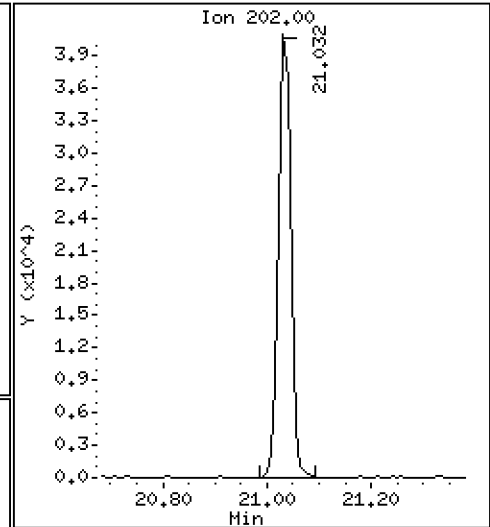
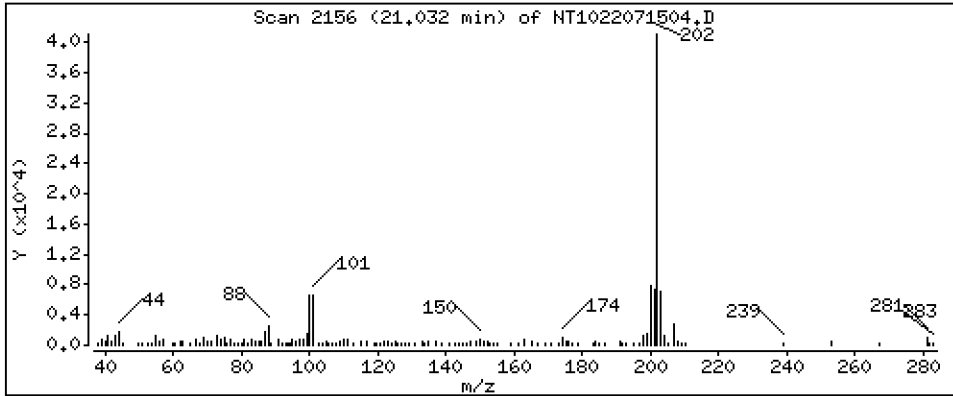
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,2199 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

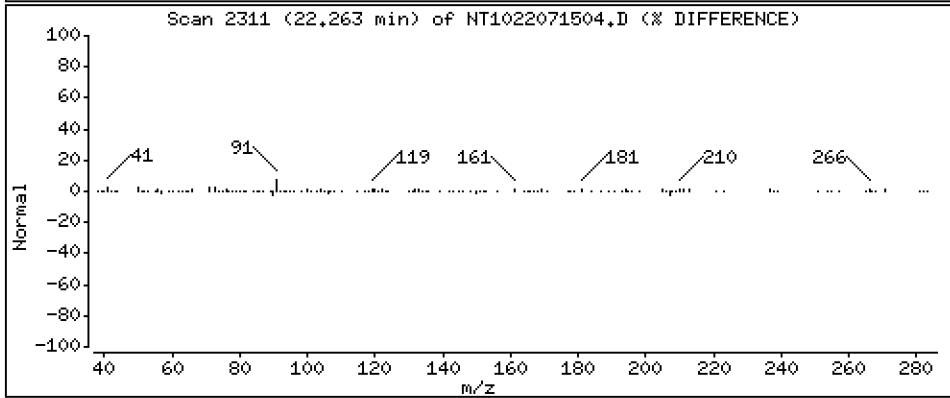
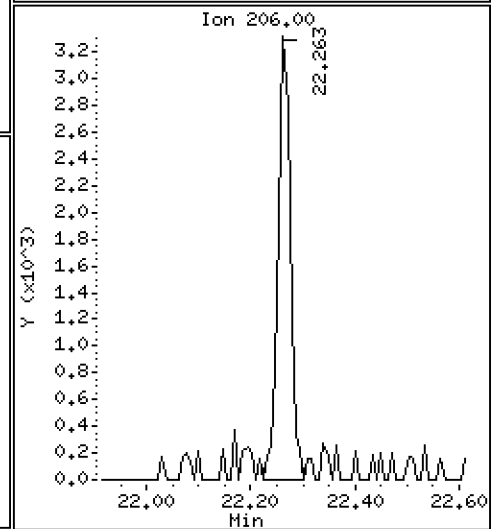
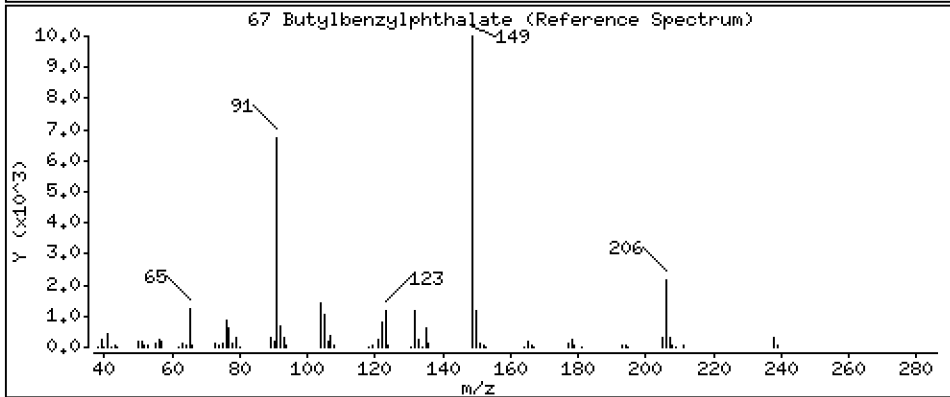
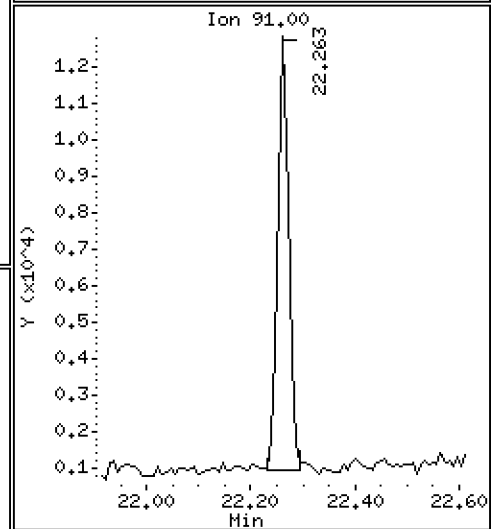
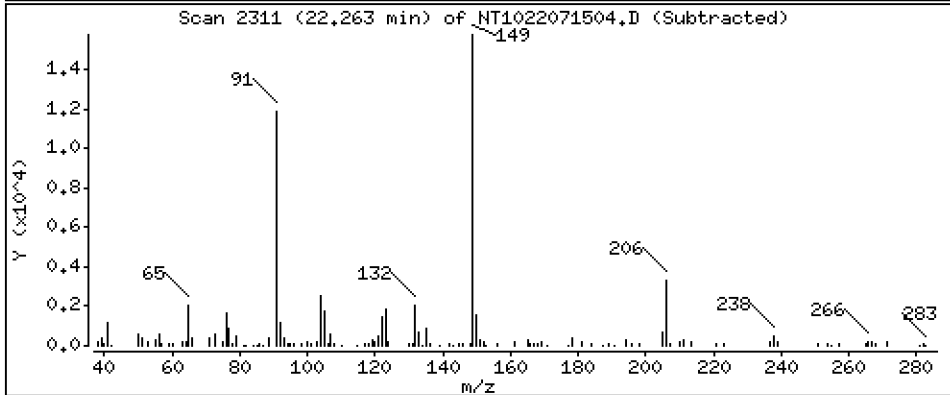
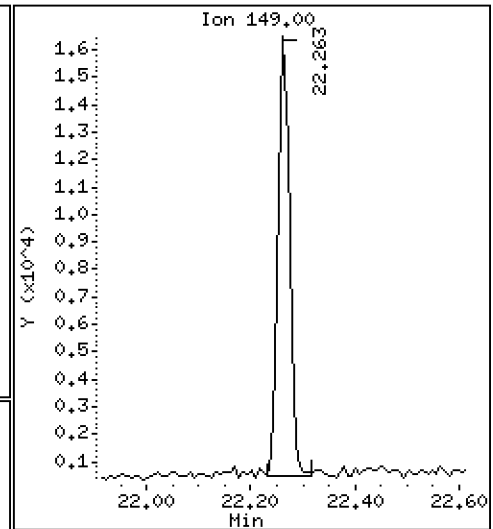
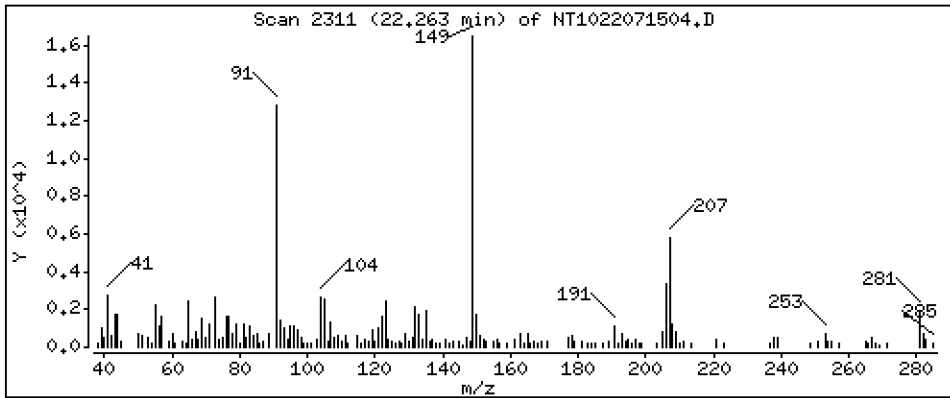
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.2444 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

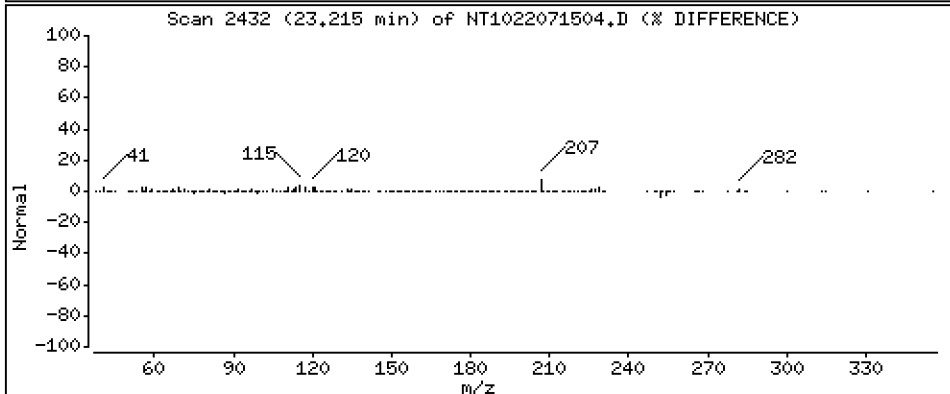
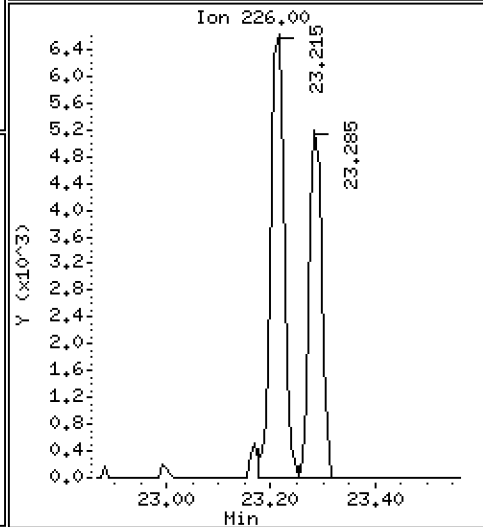
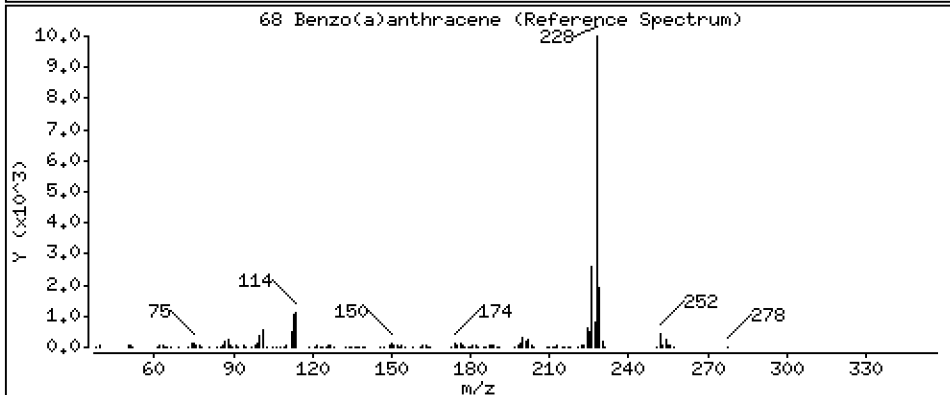
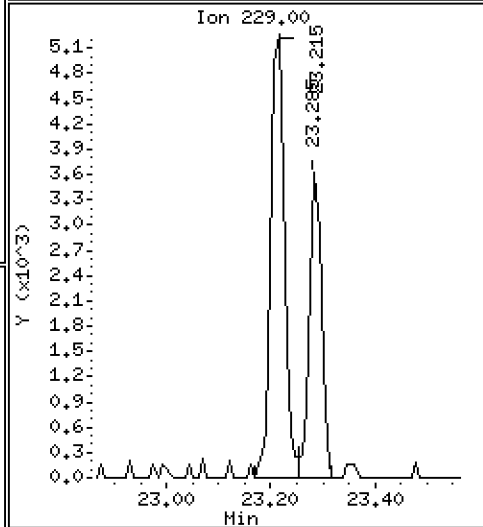
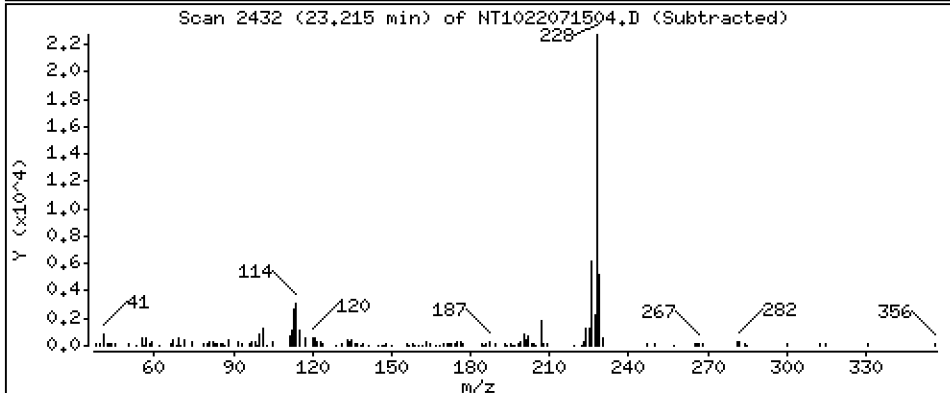
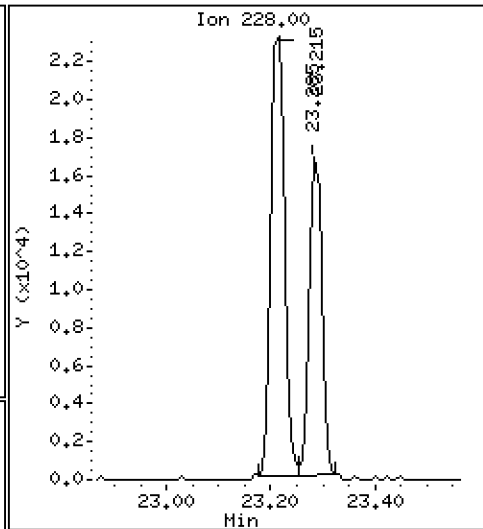
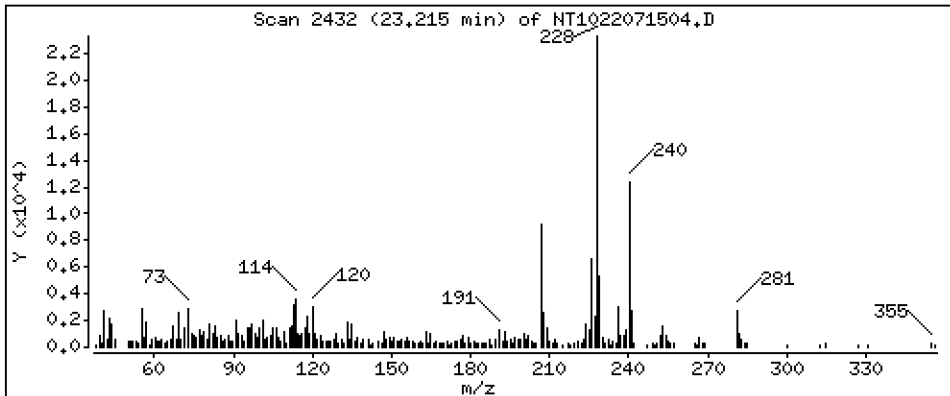
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2001 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

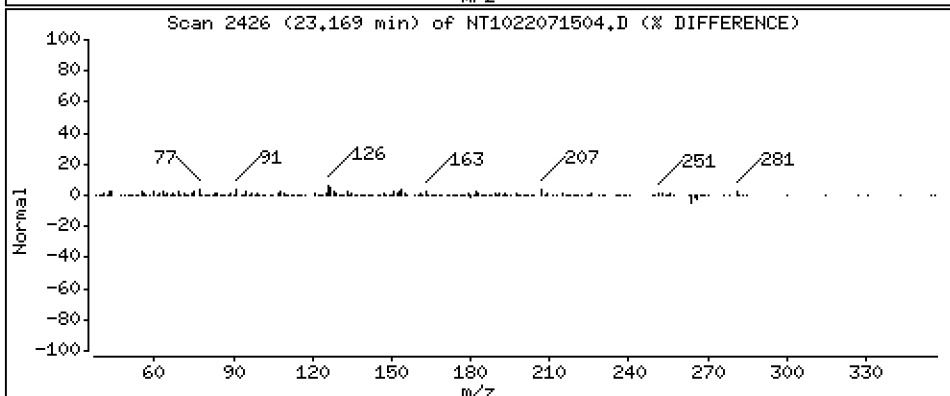
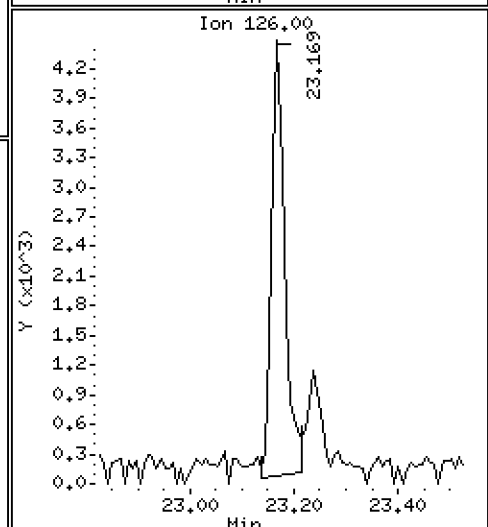
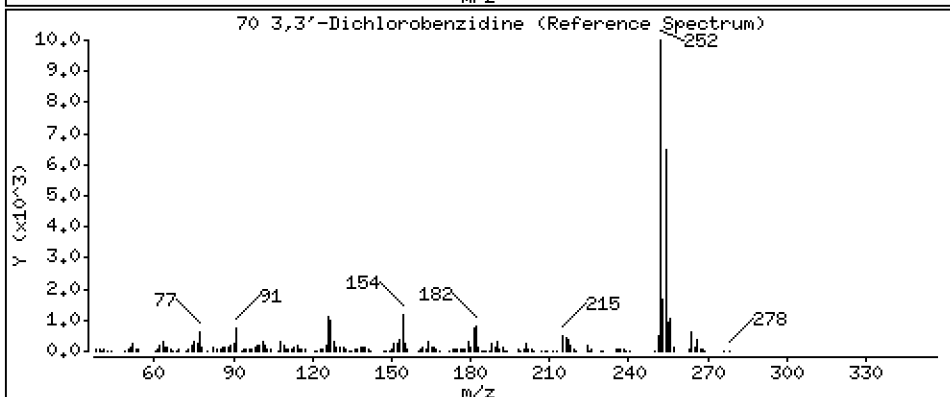
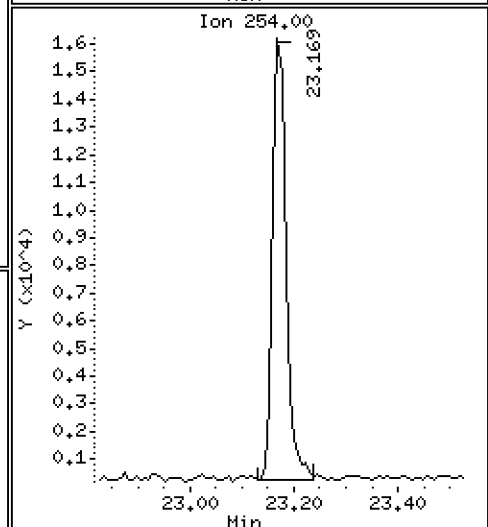
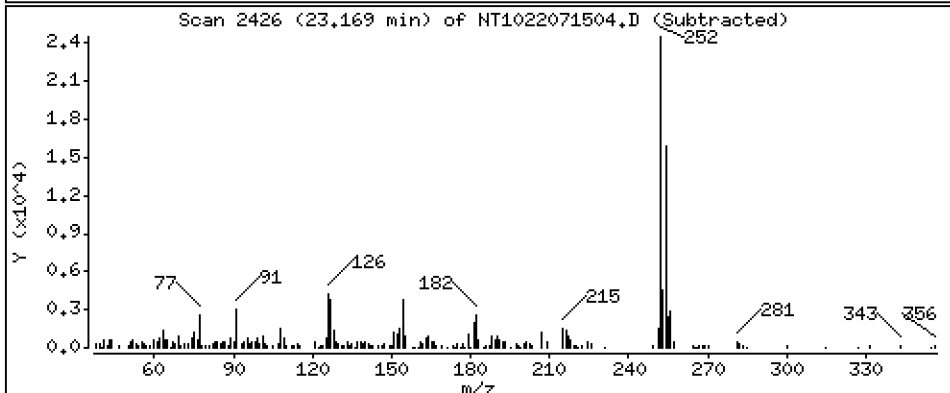
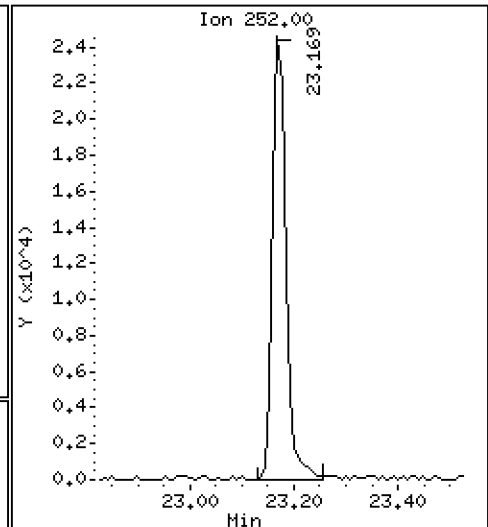
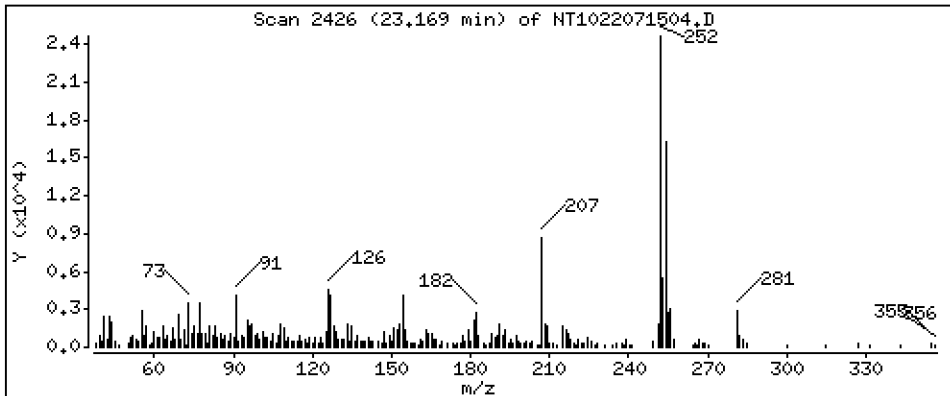
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,6433 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

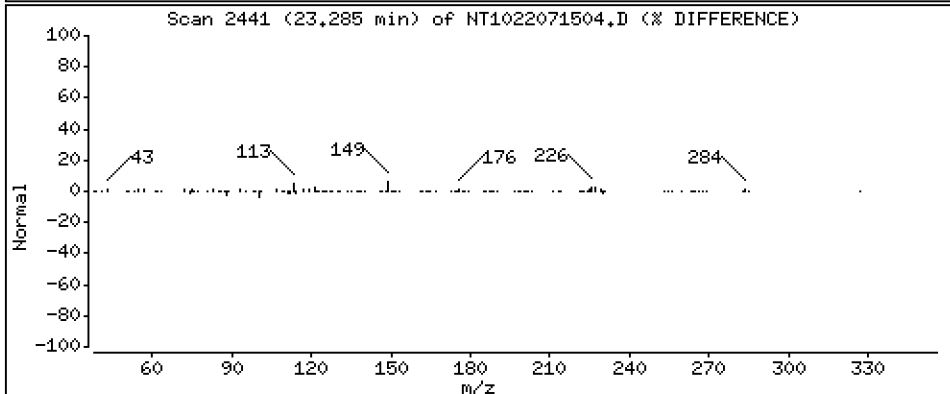
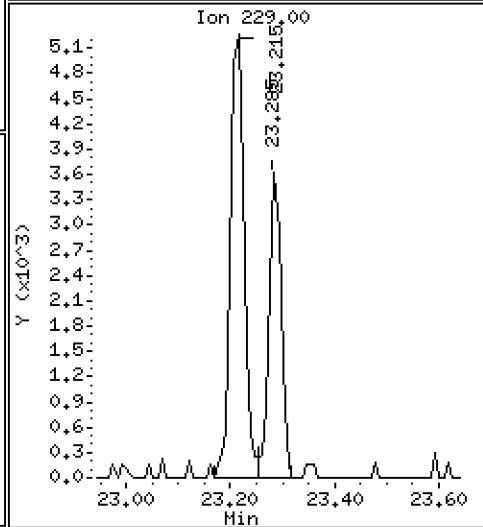
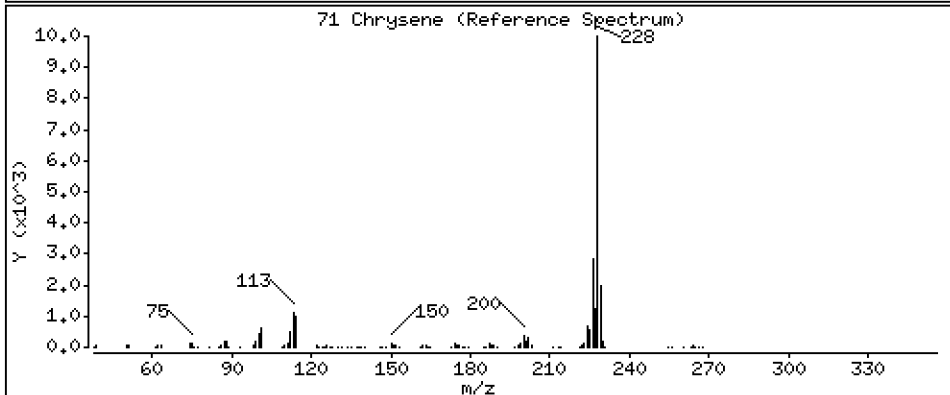
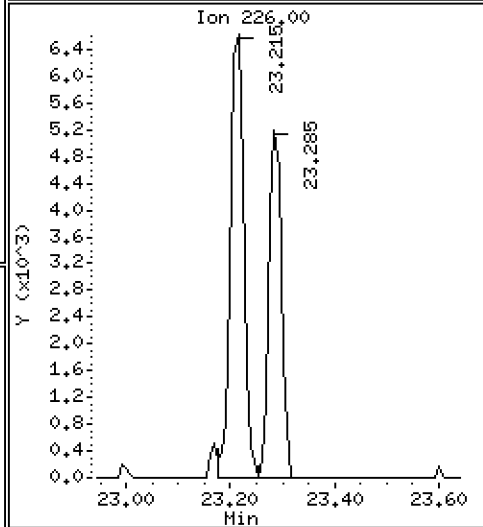
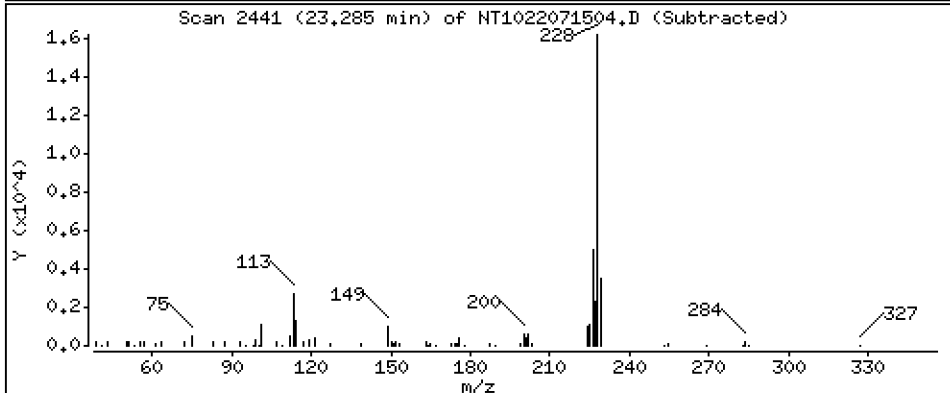
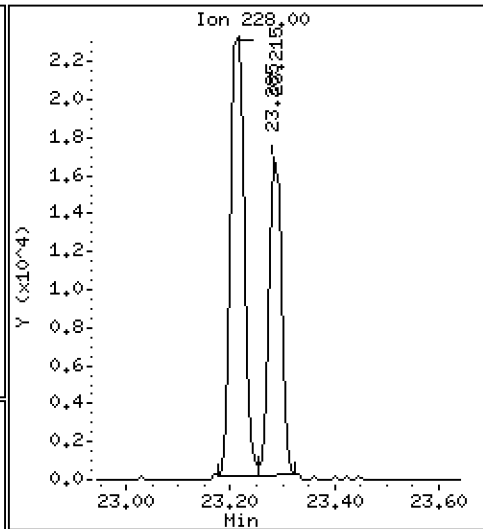
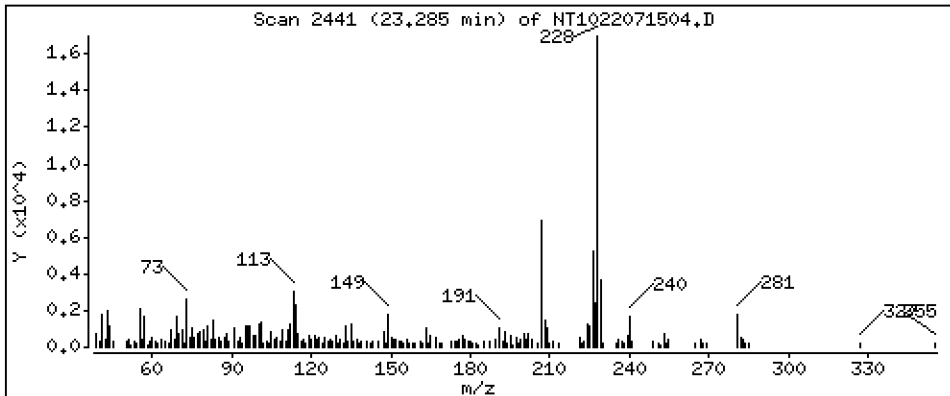
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,1978 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

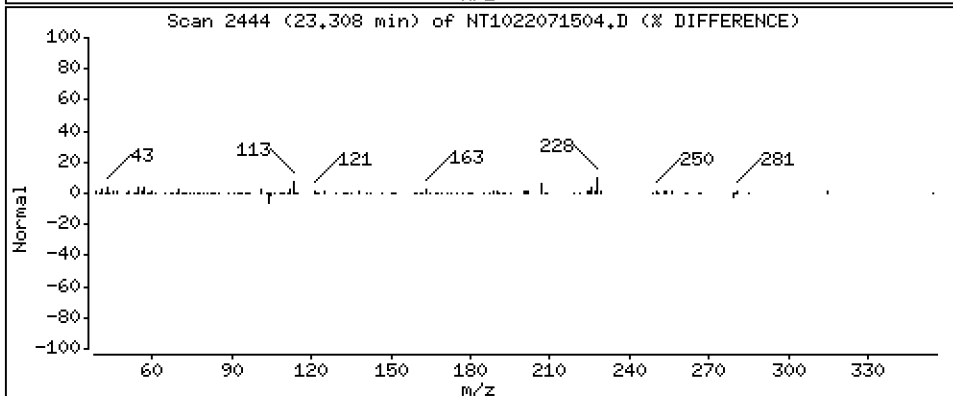
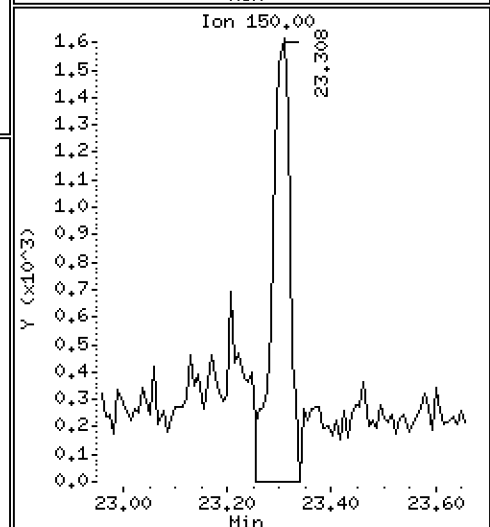
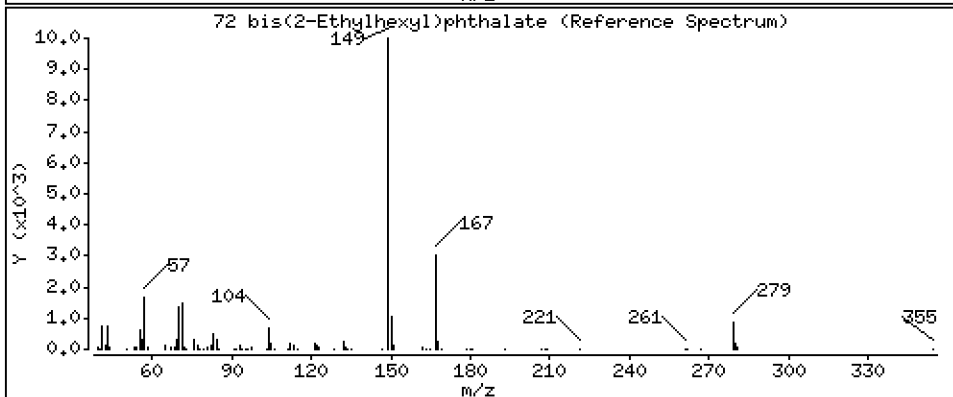
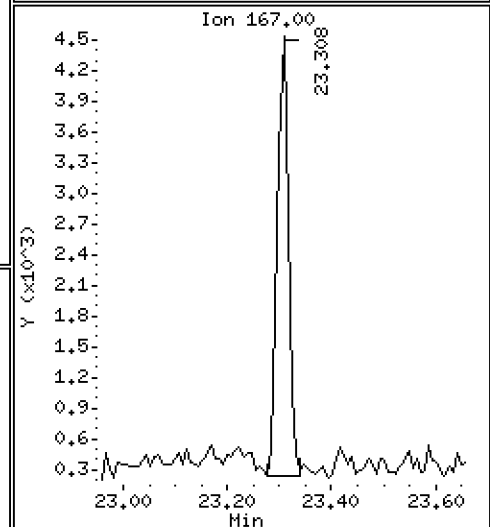
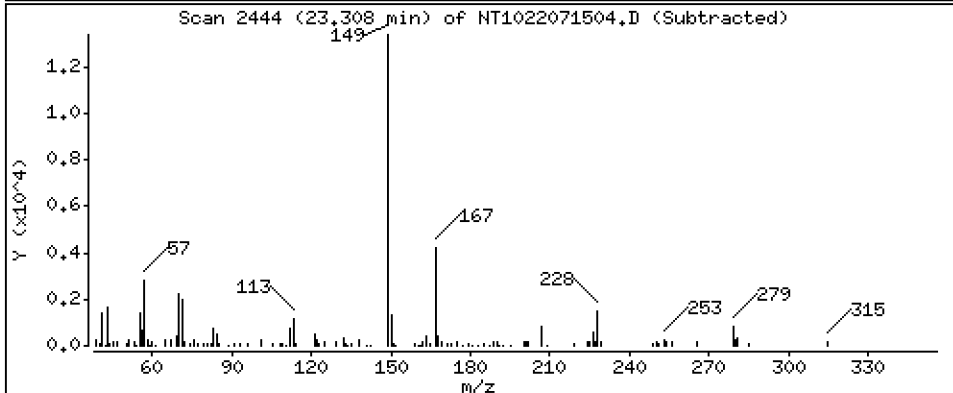
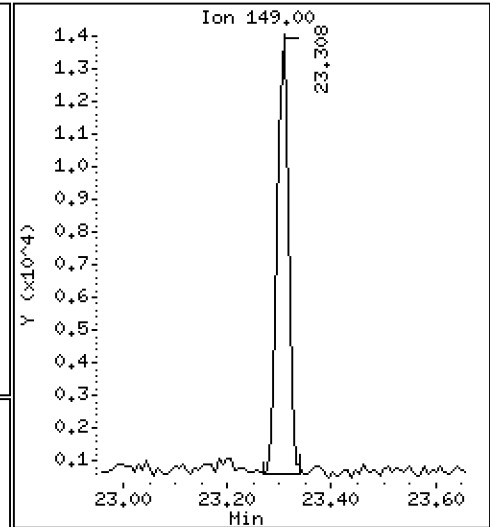
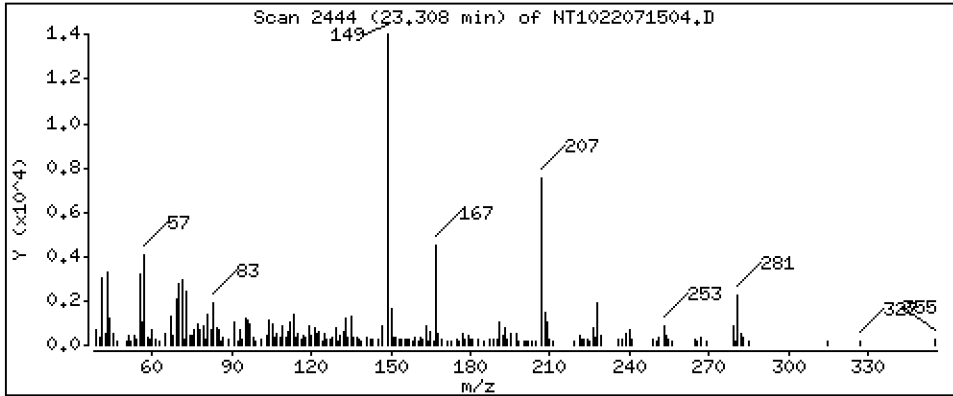
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,3144 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

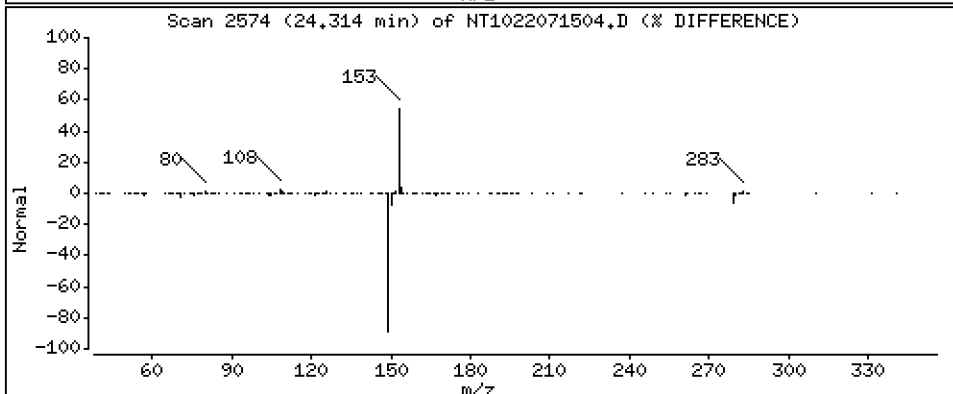
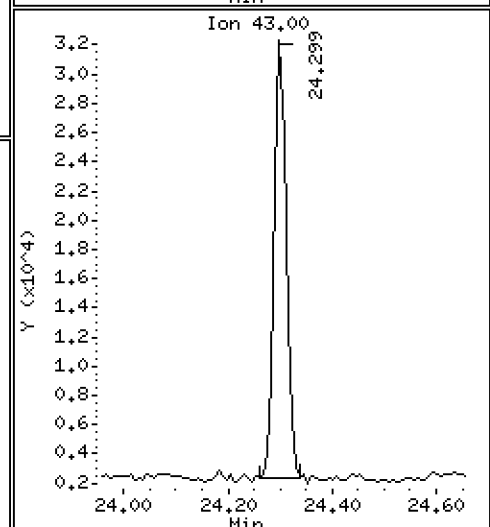
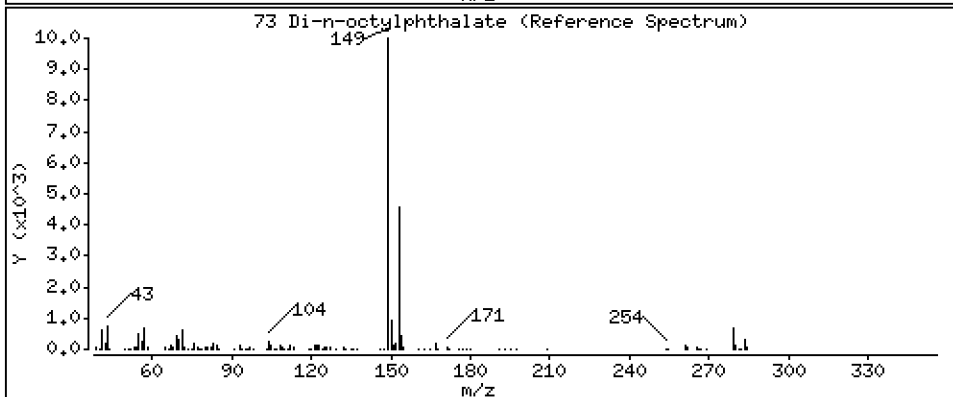
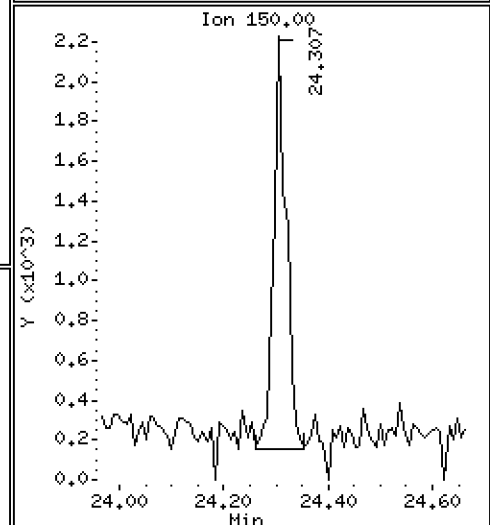
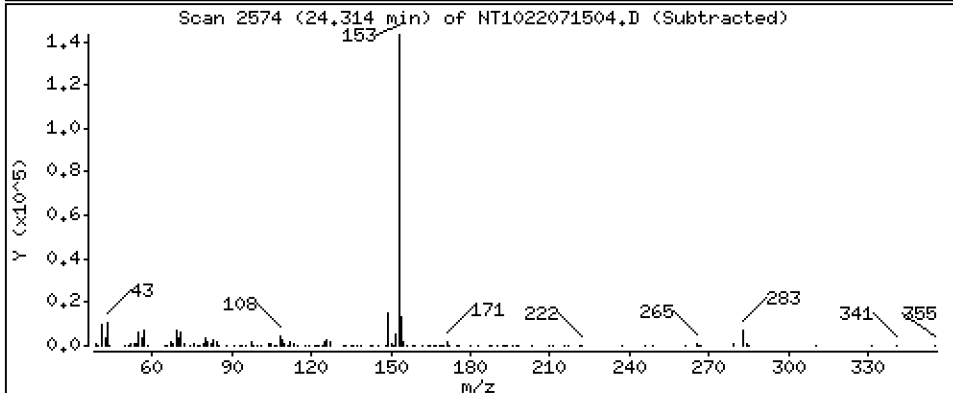
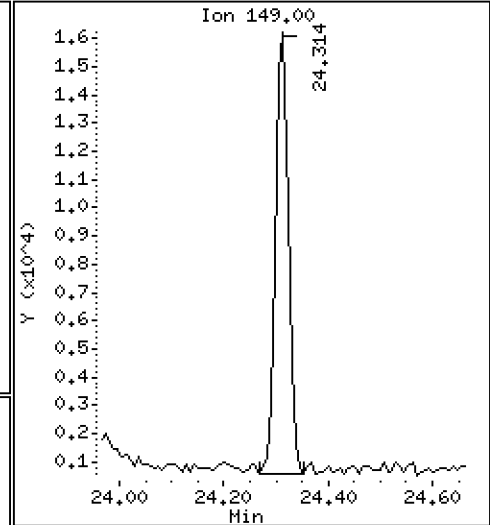
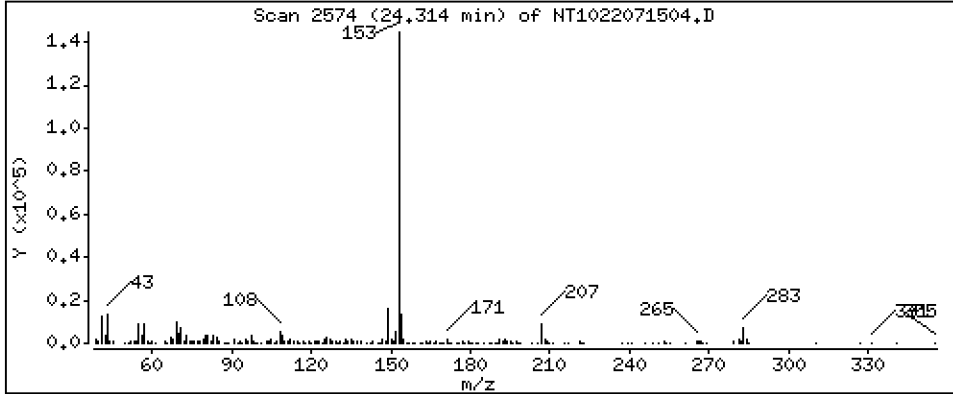
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2081 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

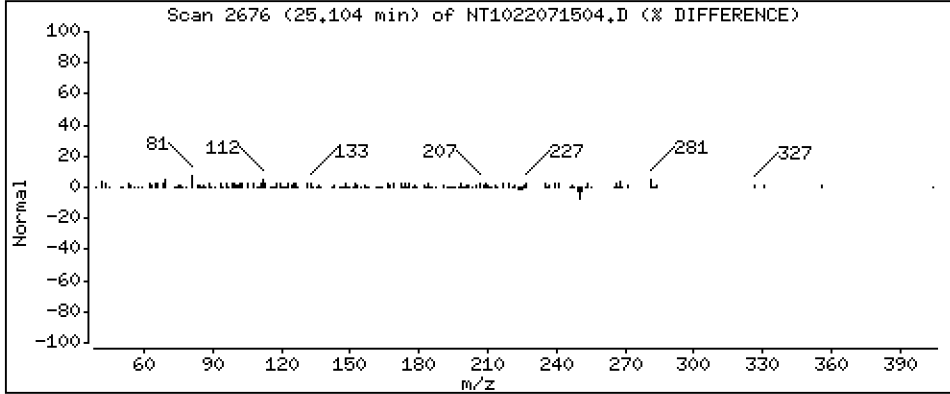
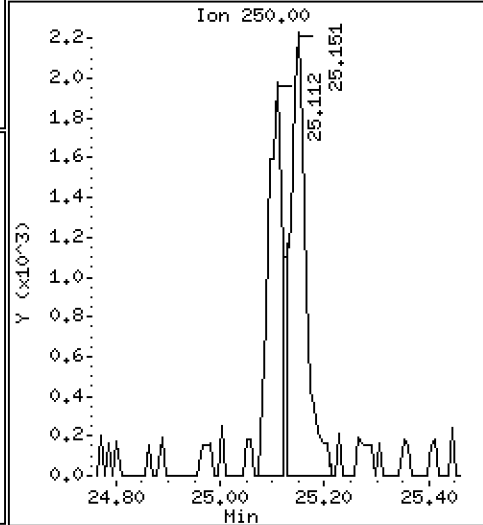
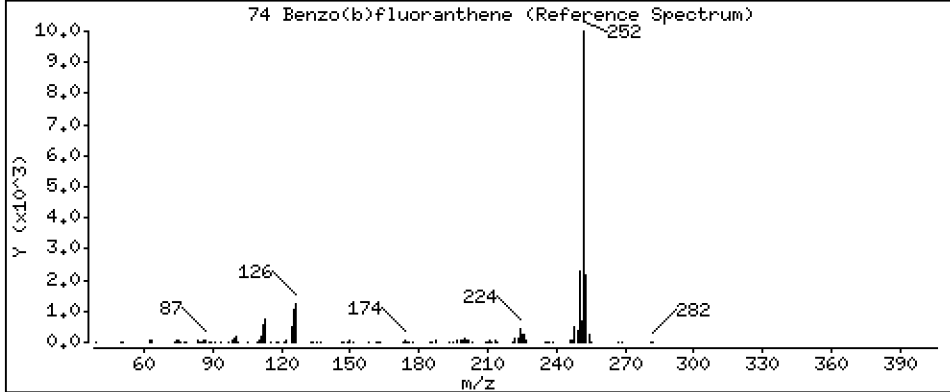
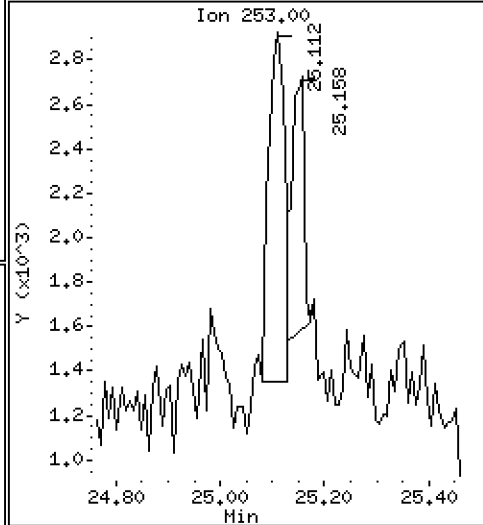
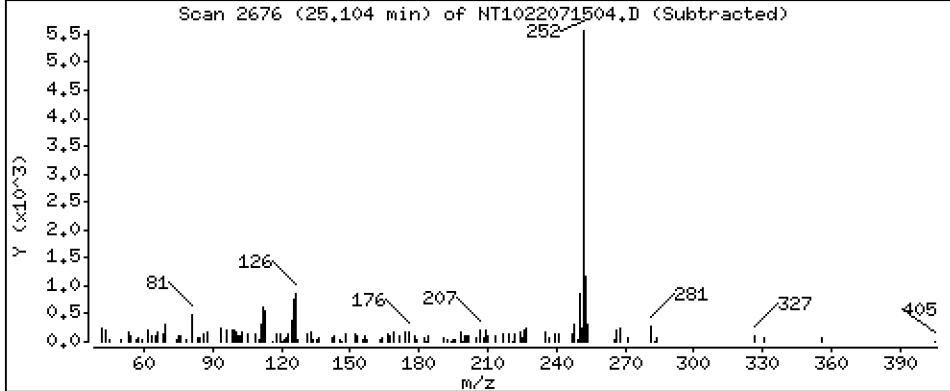
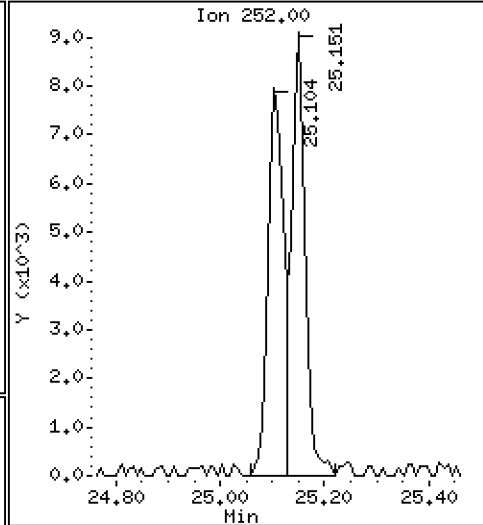
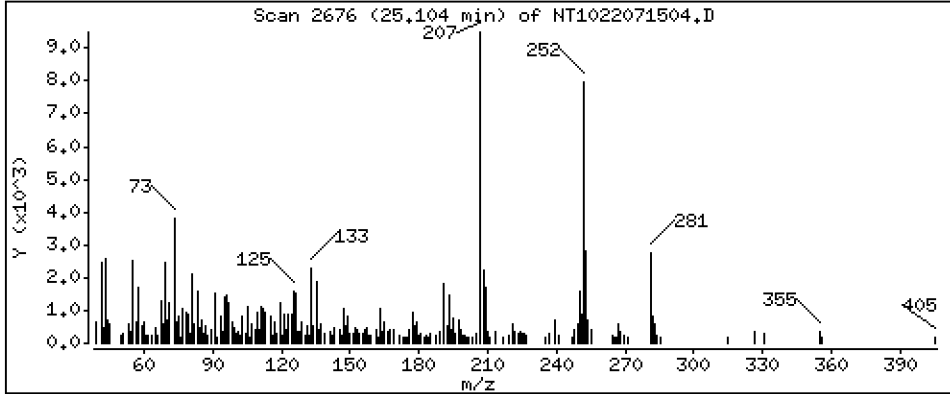
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,1781 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

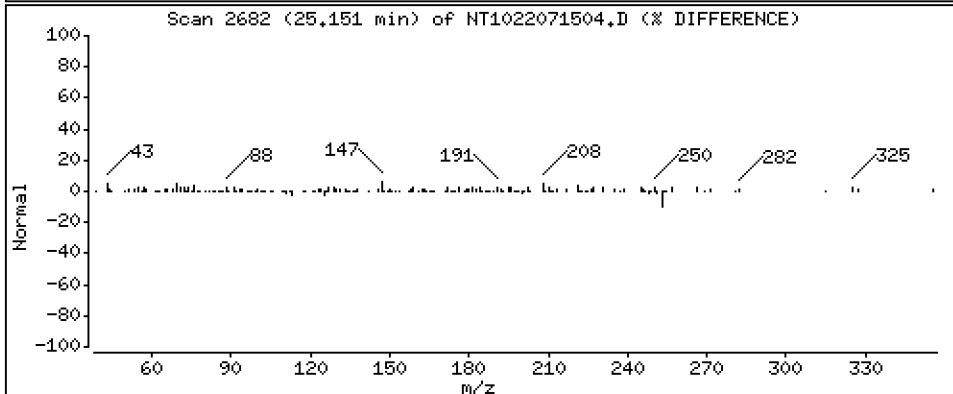
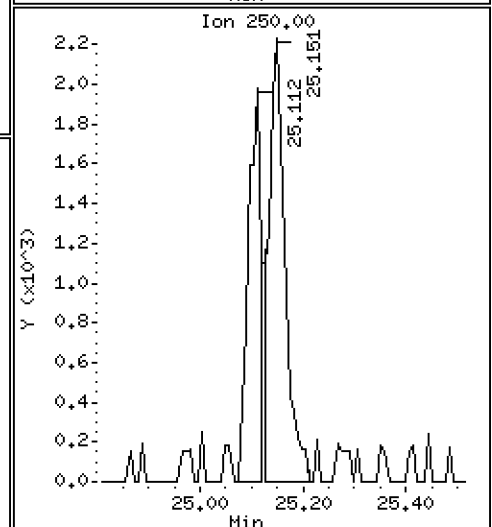
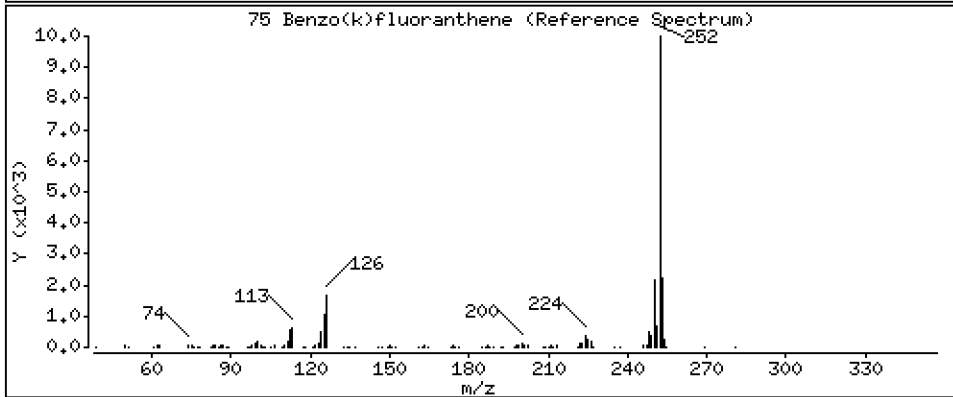
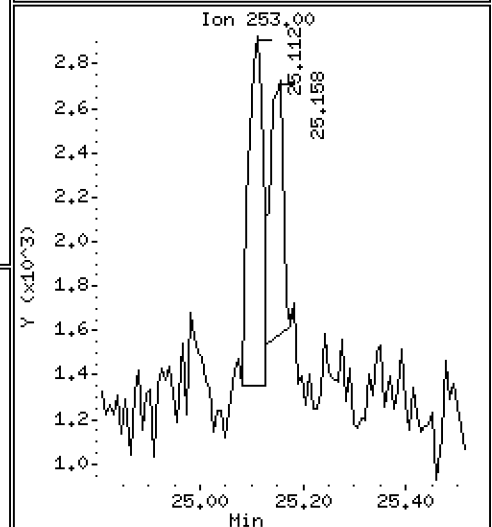
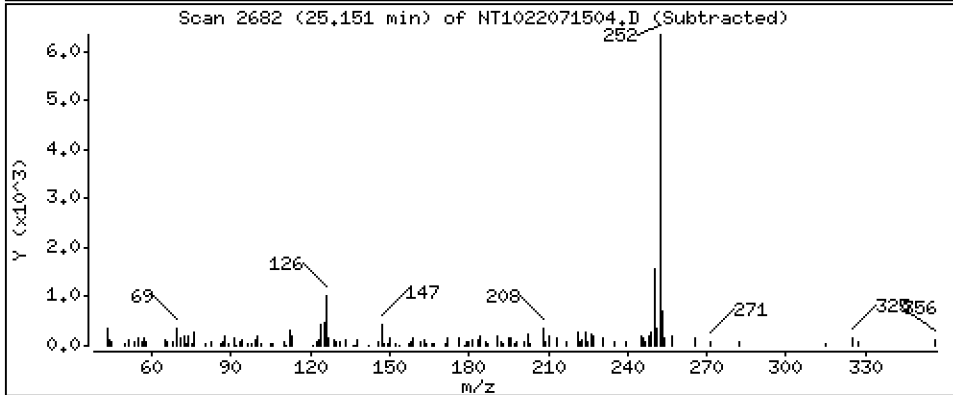
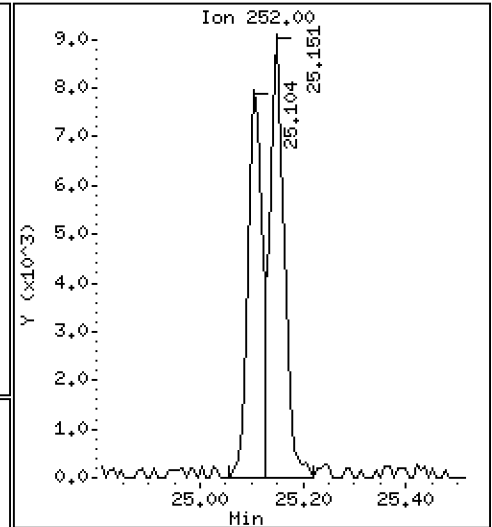
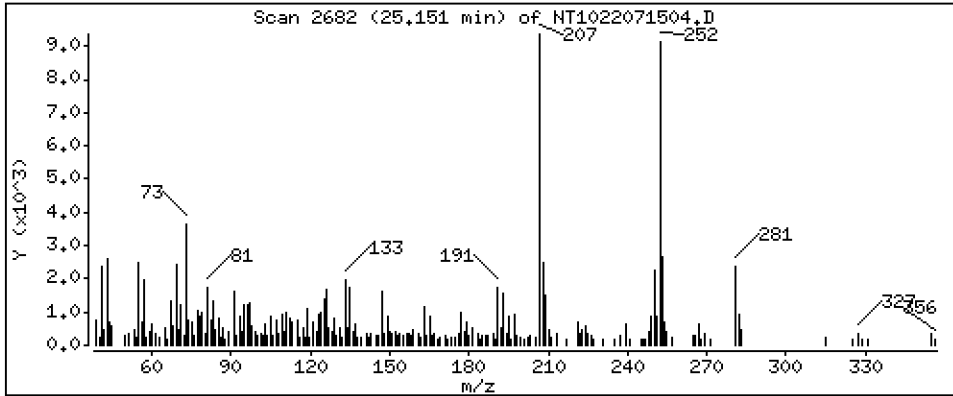
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2070 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

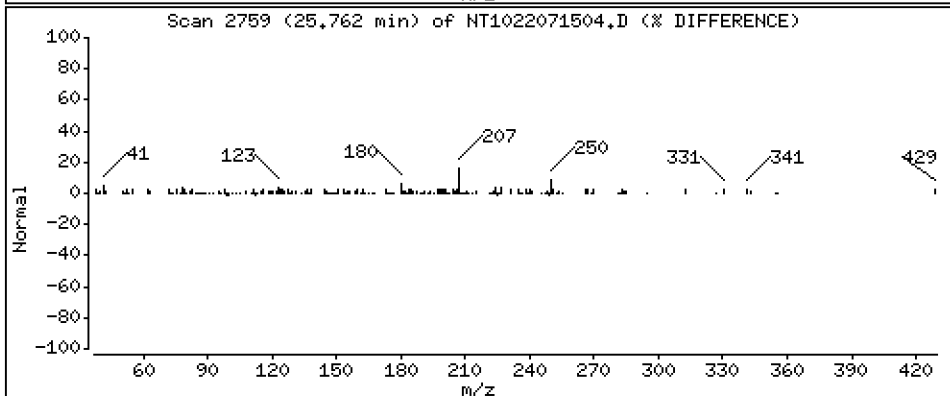
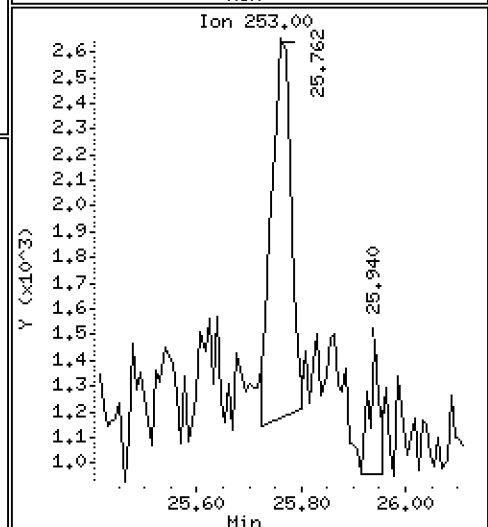
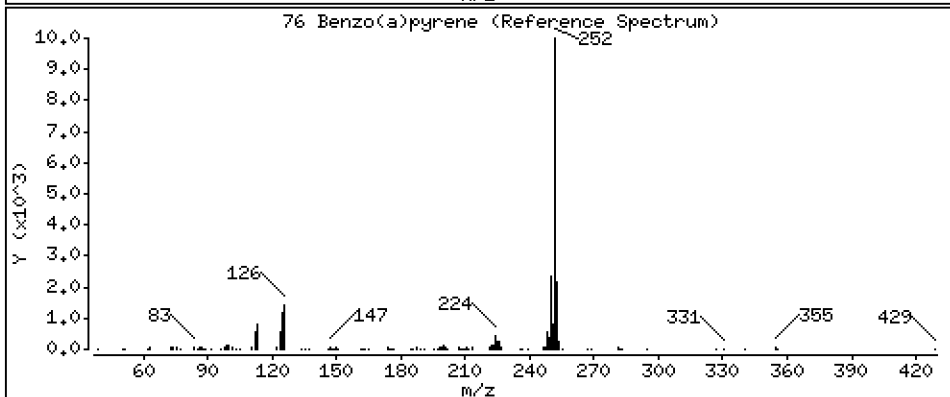
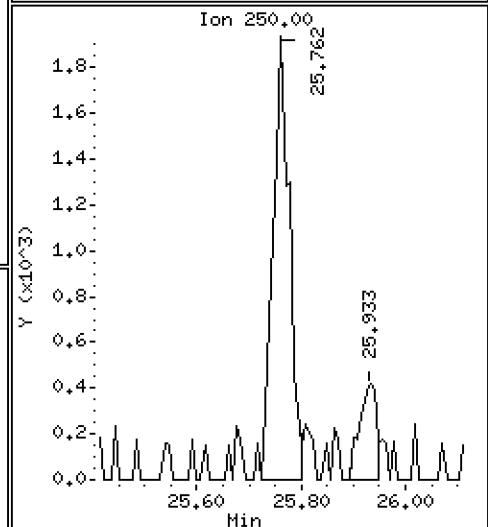
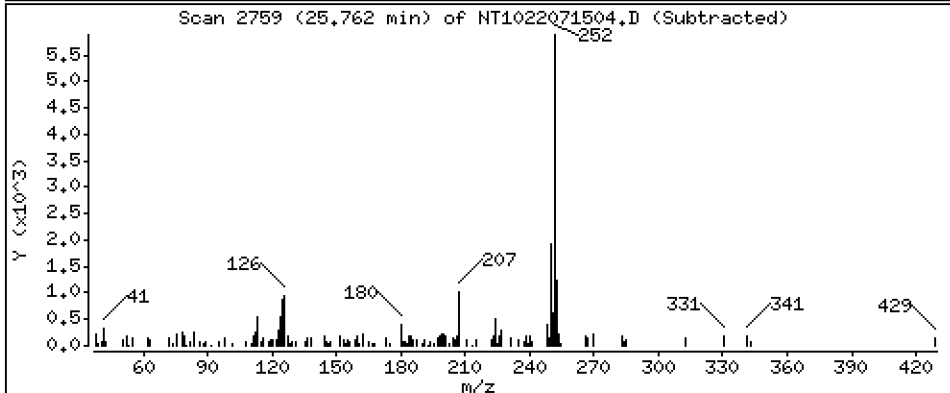
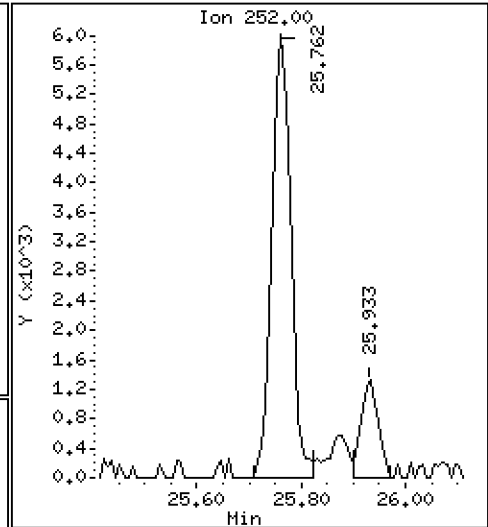
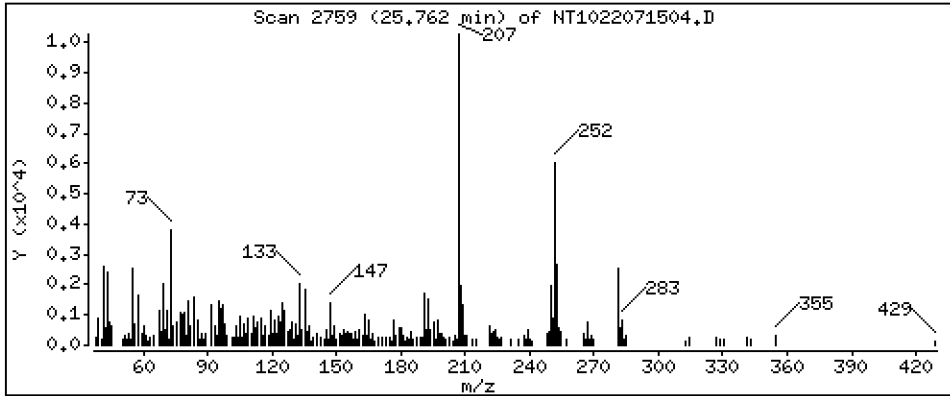
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,1996 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

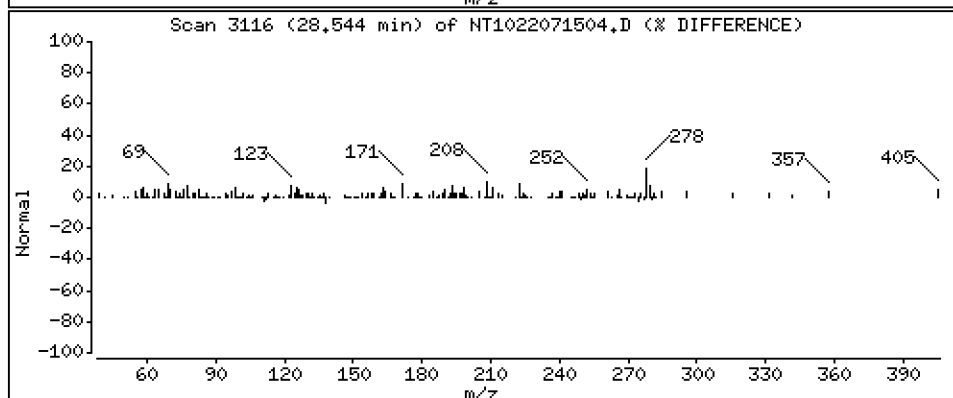
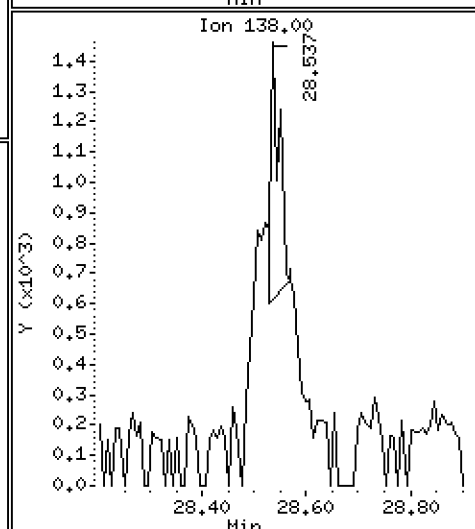
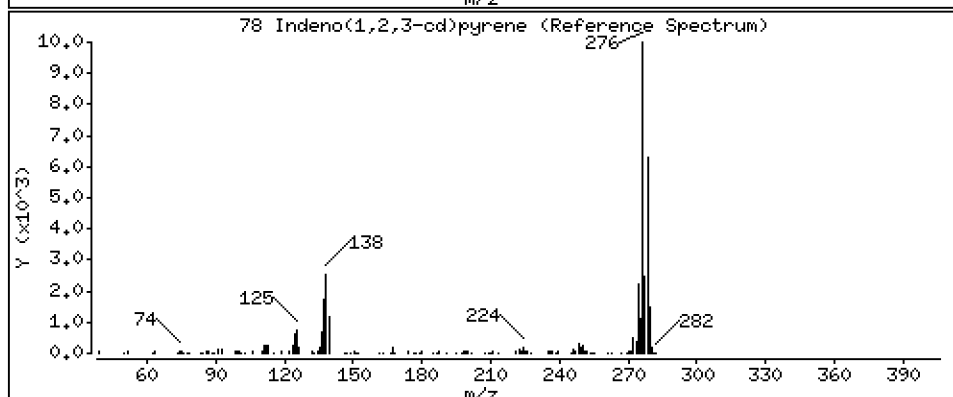
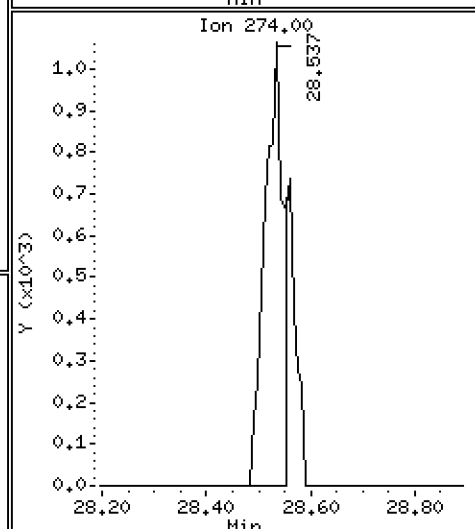
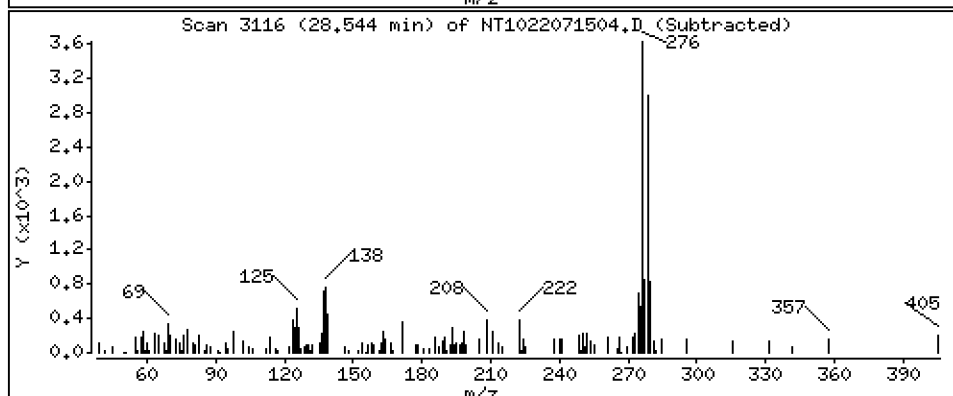
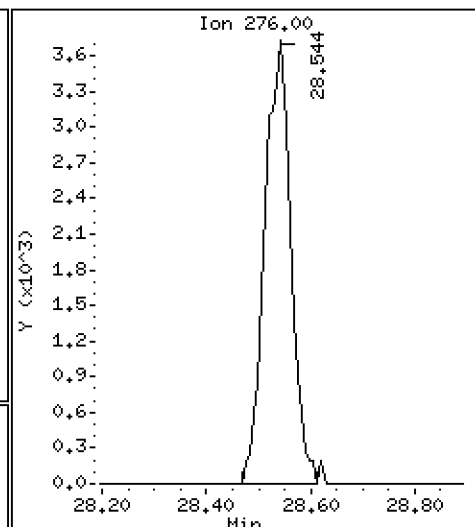
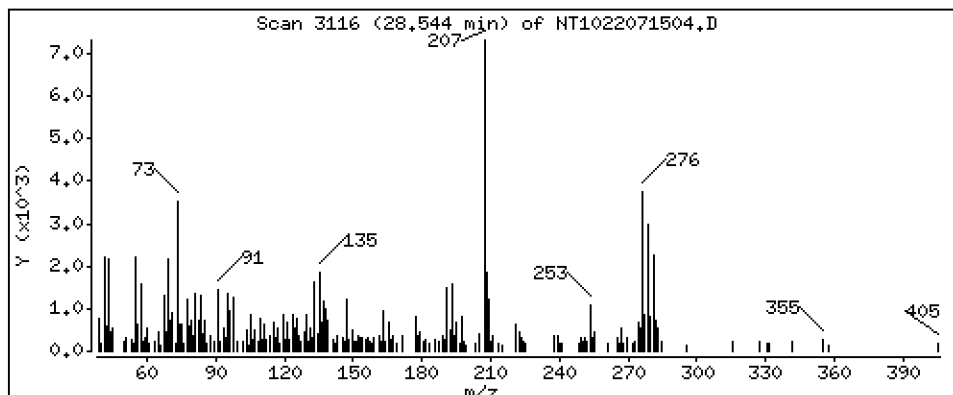
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,1625 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

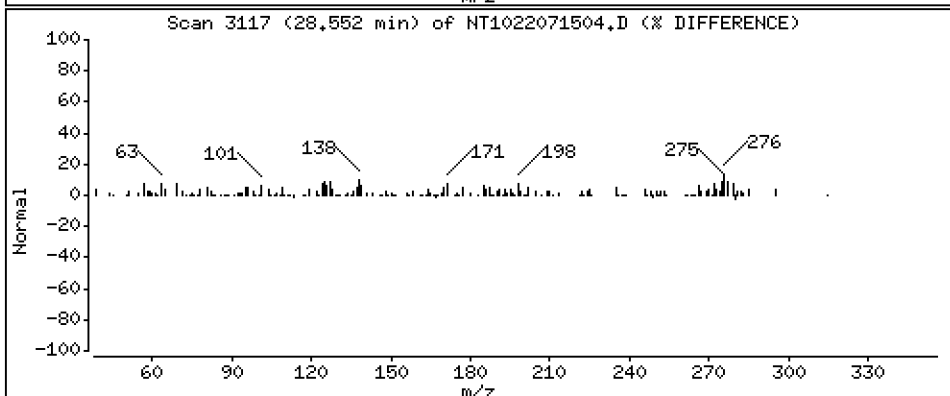
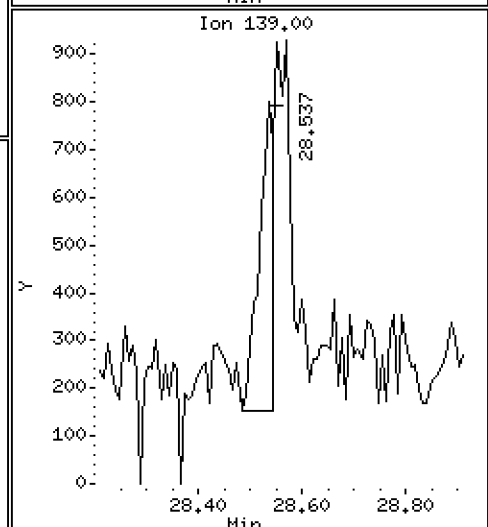
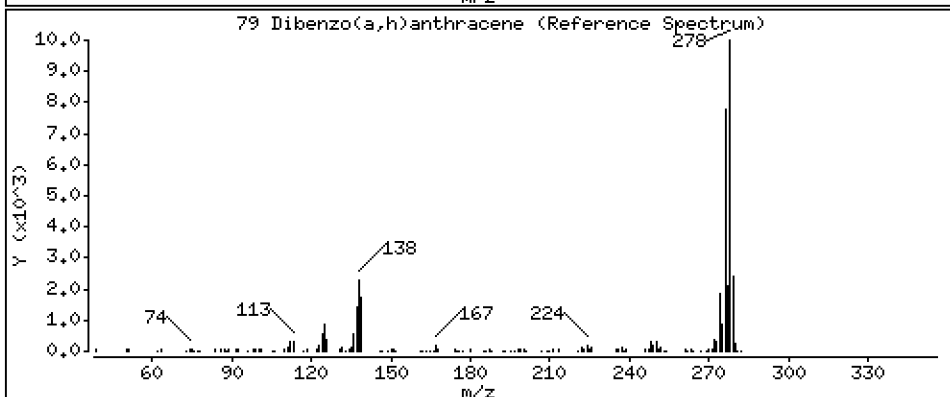
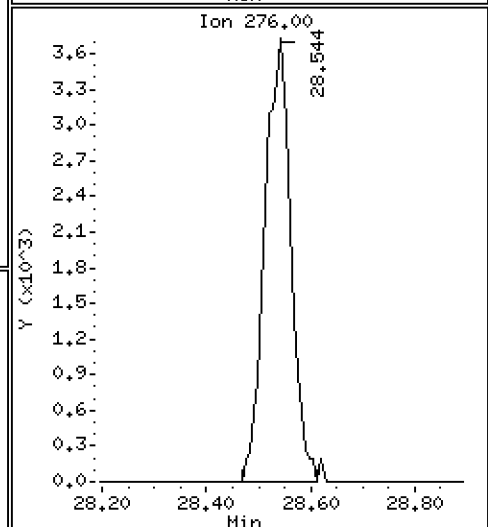
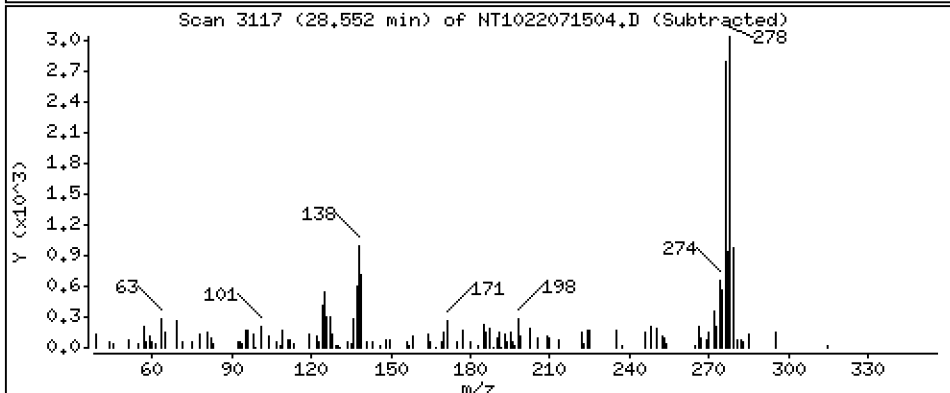
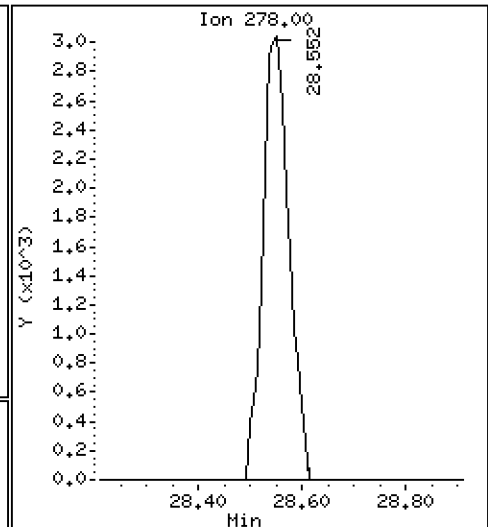
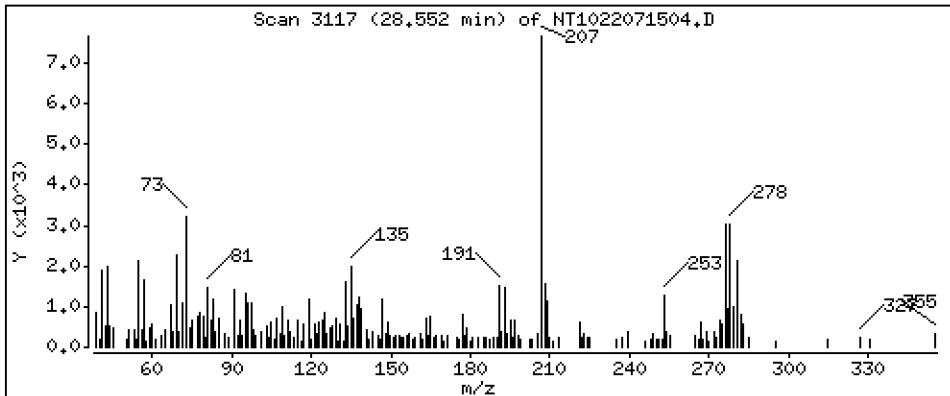
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1741 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

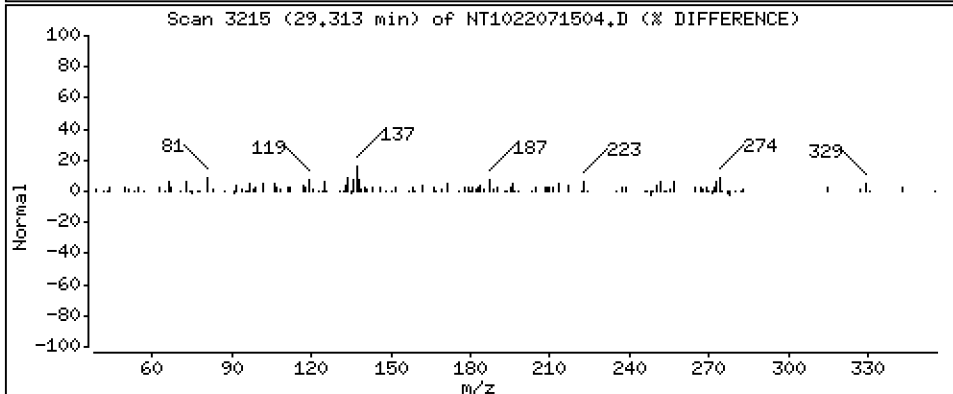
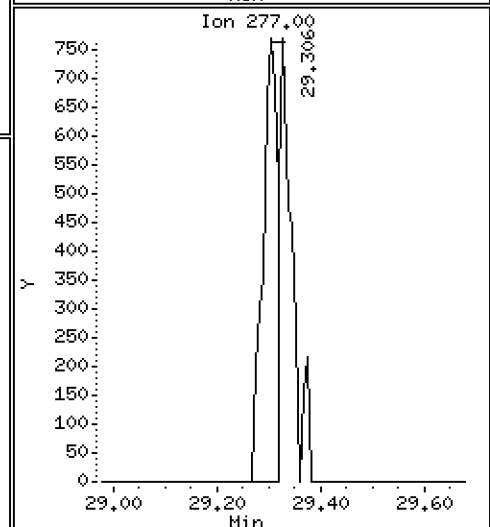
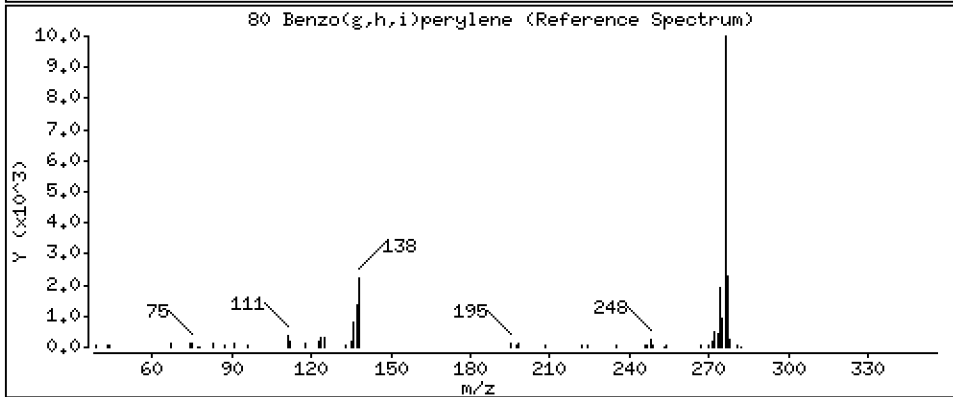
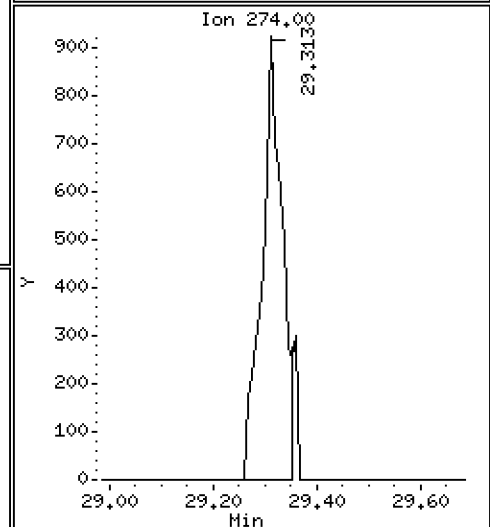
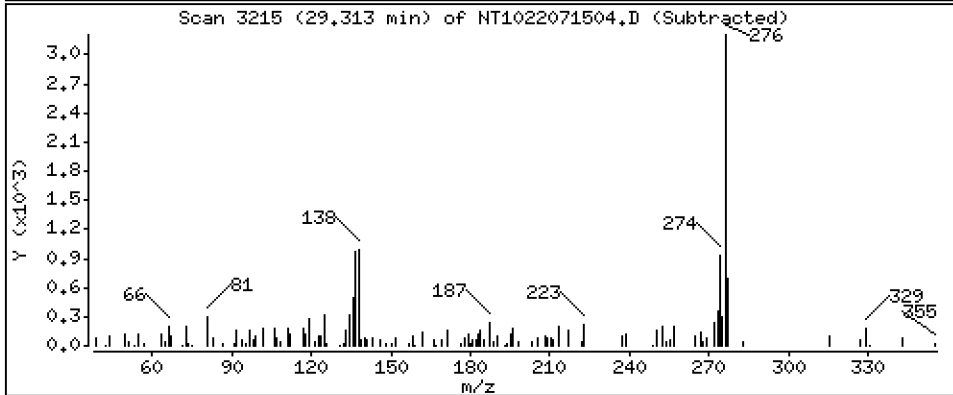
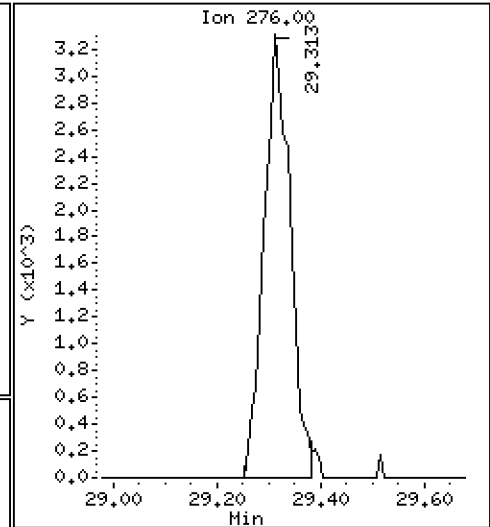
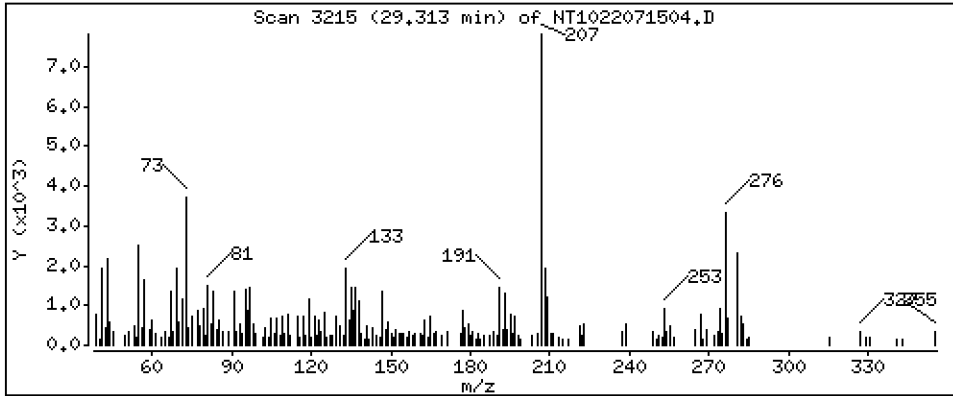
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1817 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

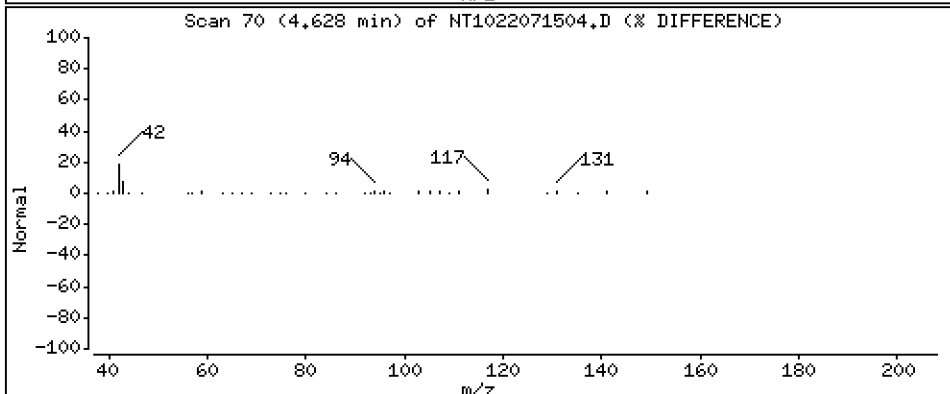
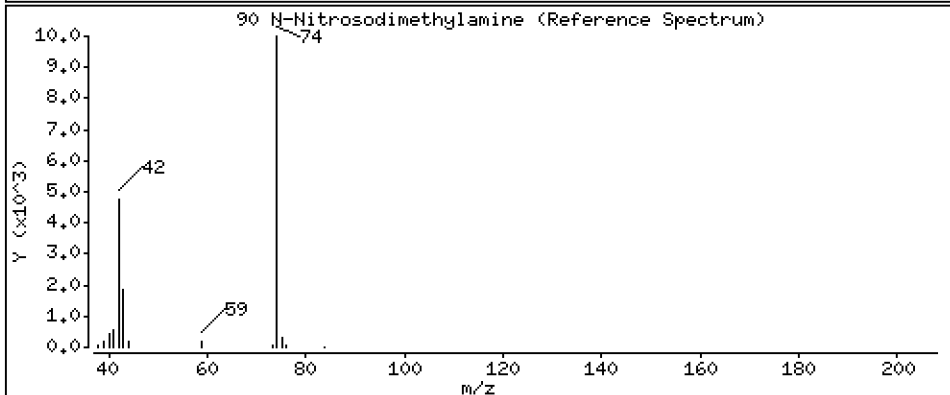
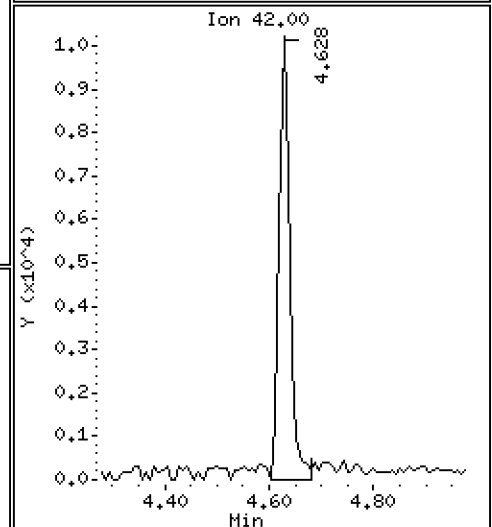
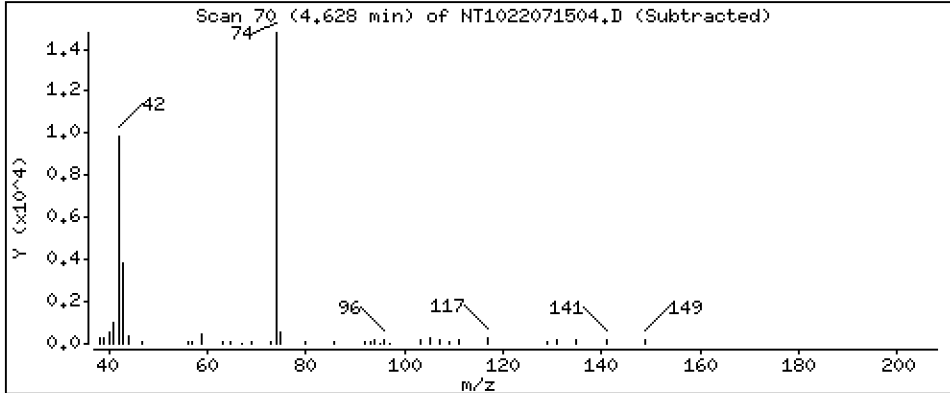
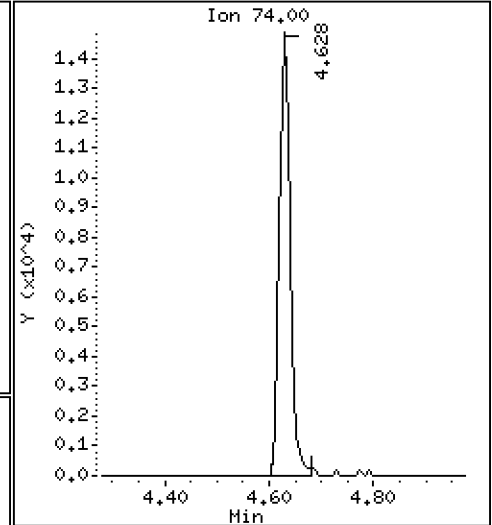
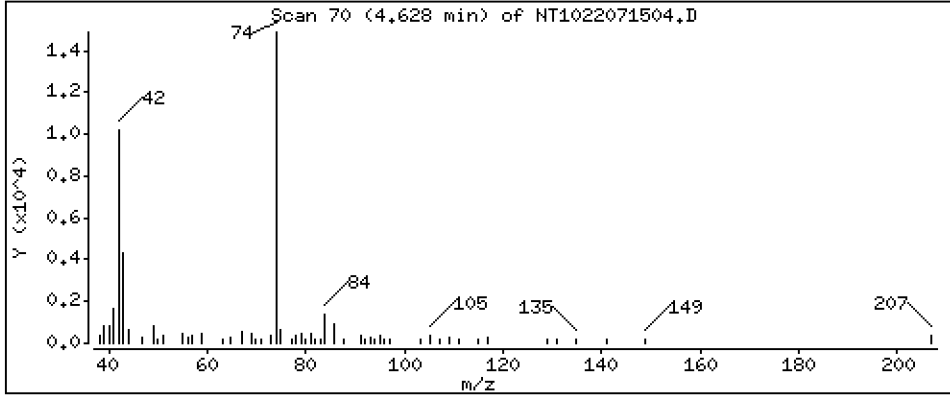
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 0.2749 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

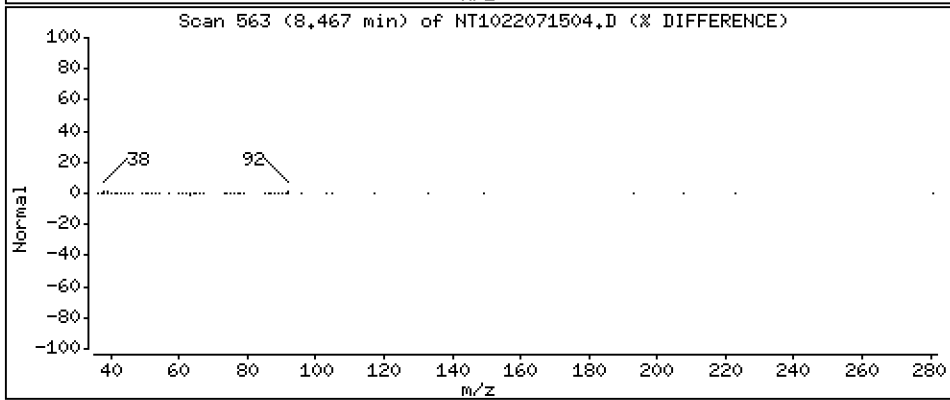
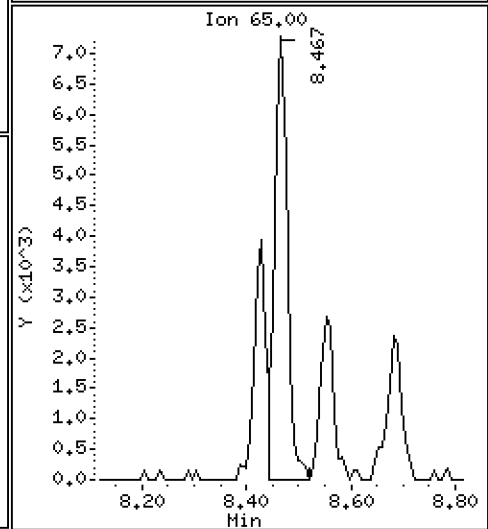
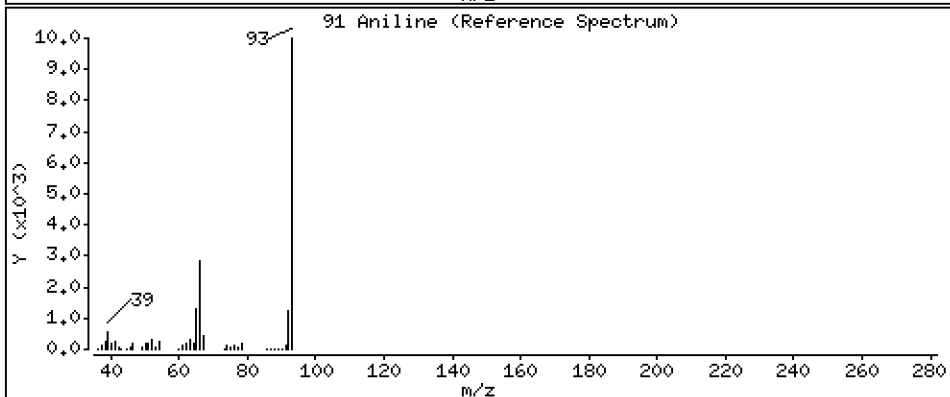
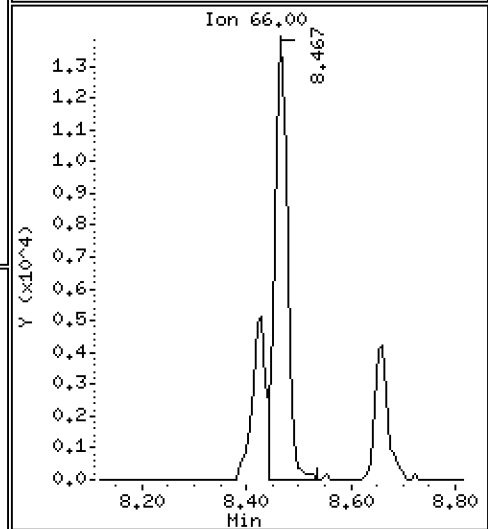
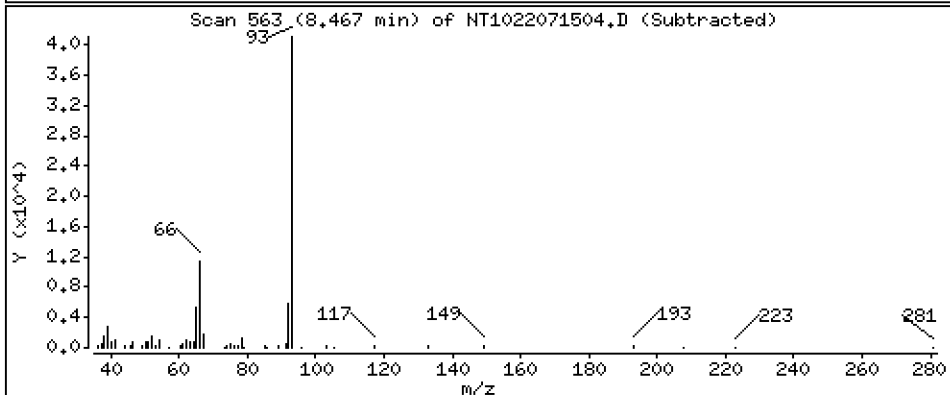
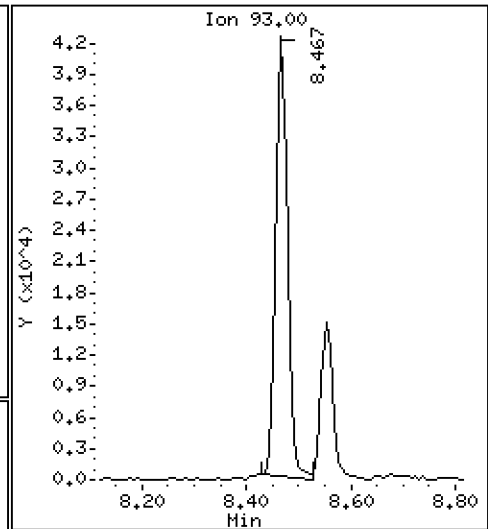
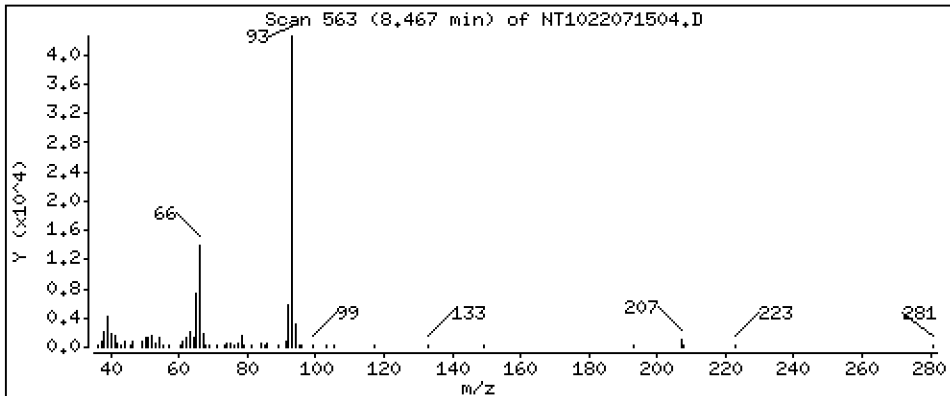
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,4293 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

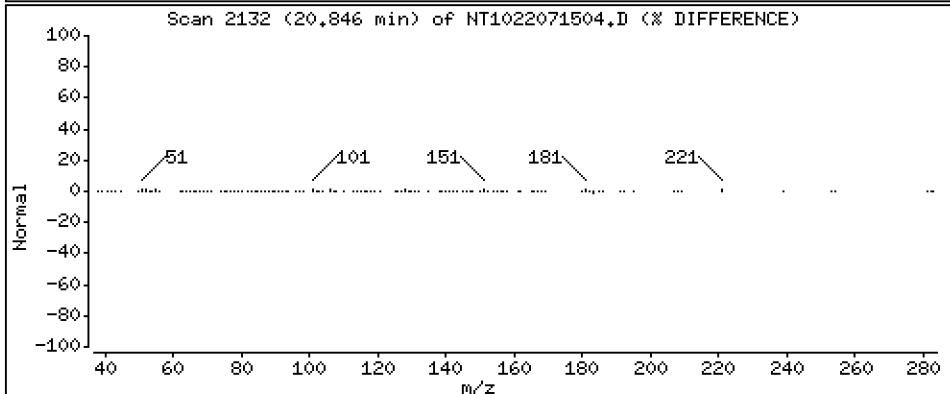
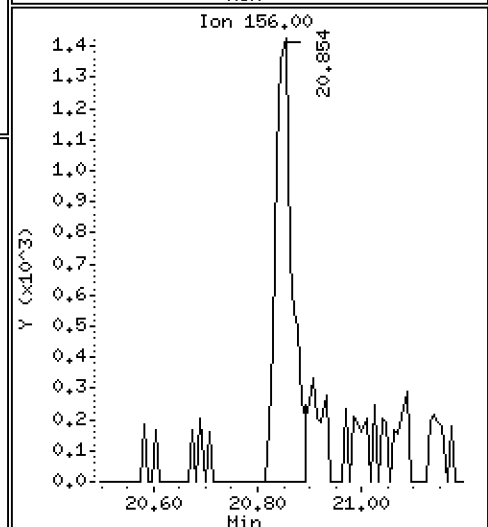
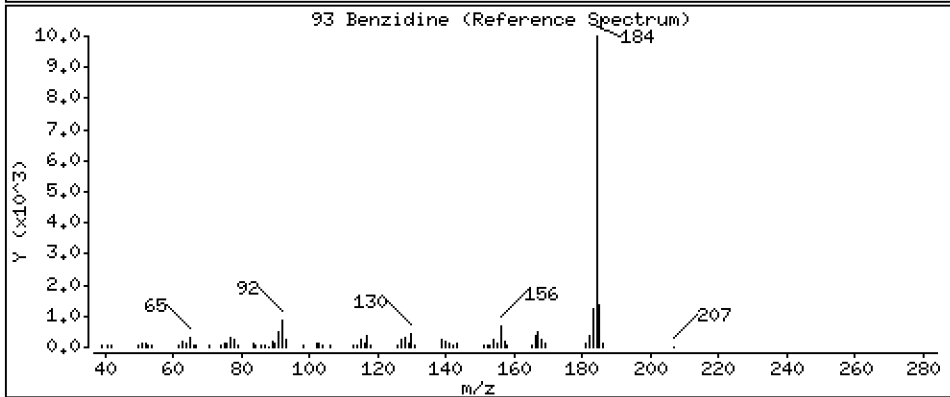
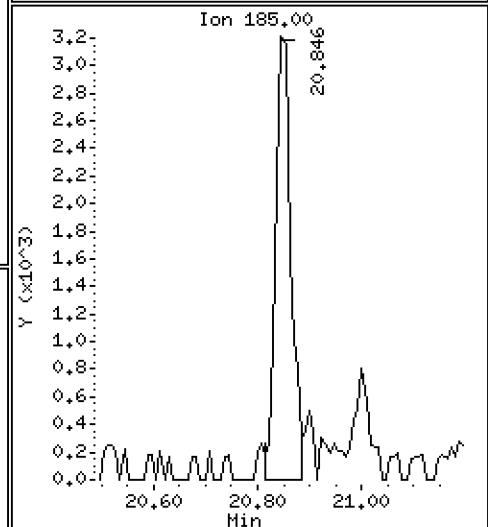
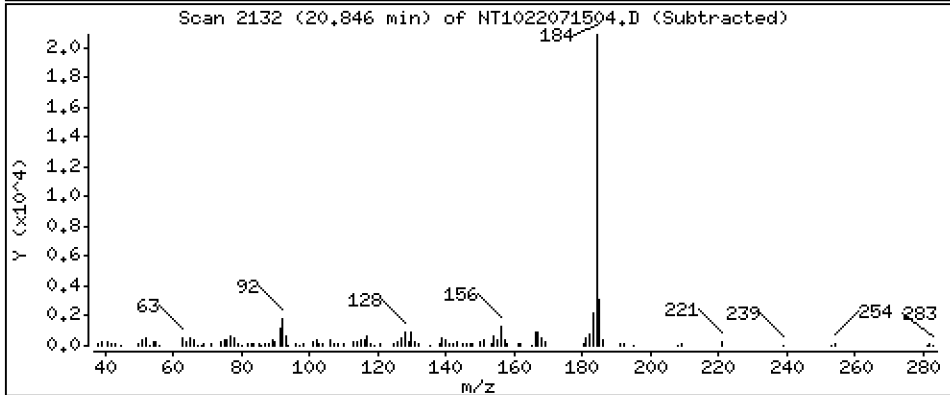
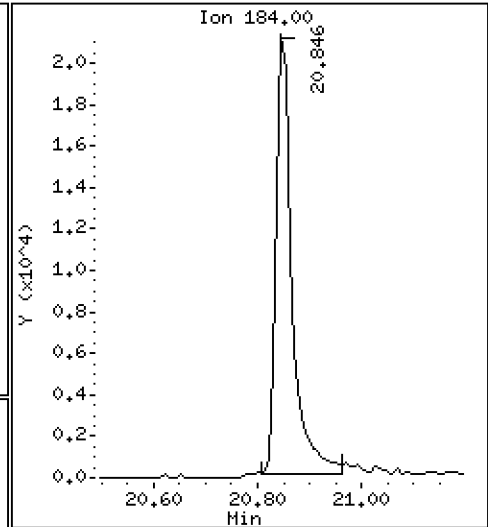
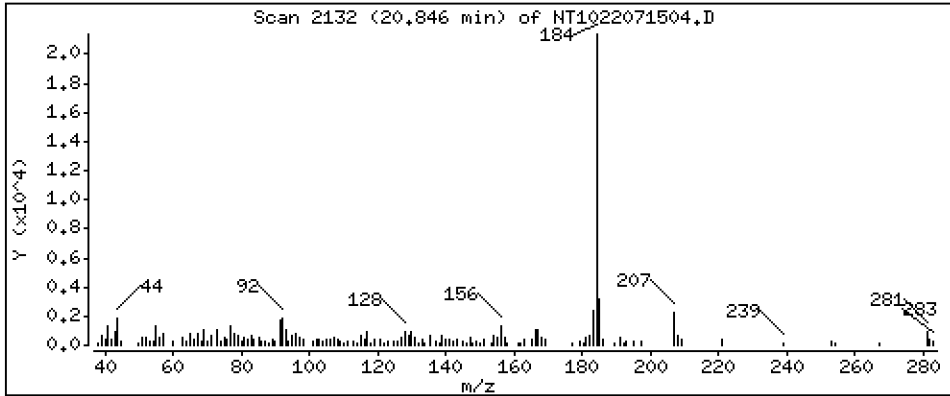
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,6128 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

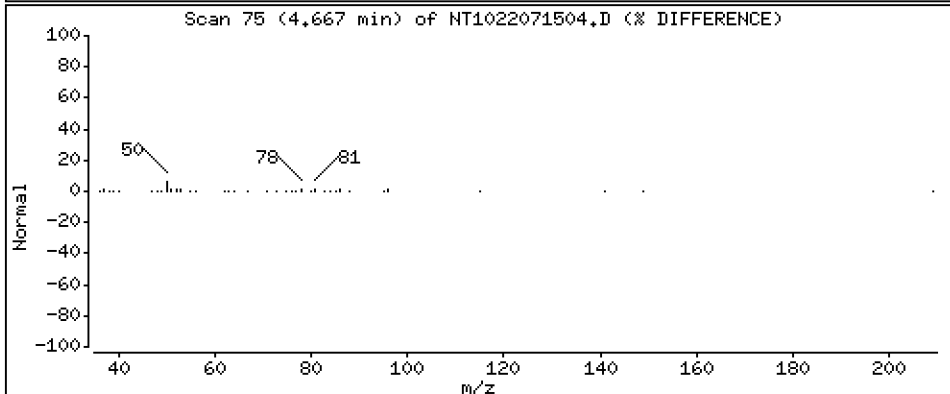
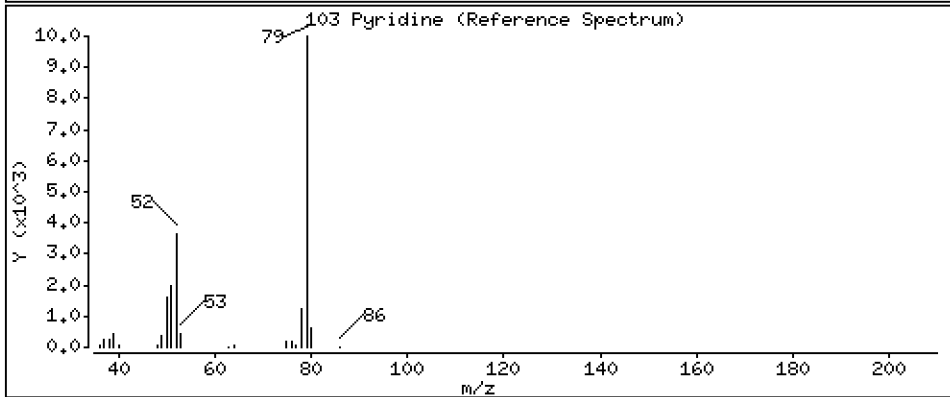
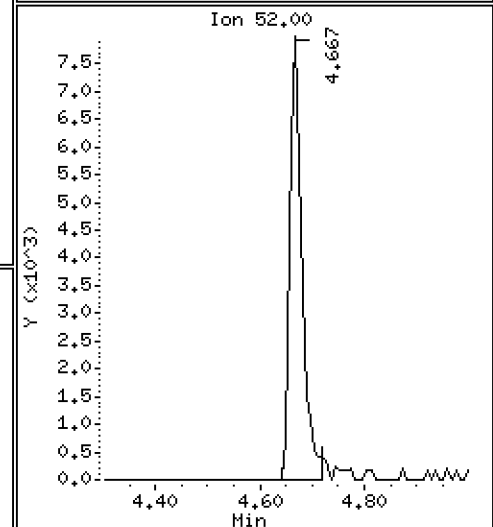
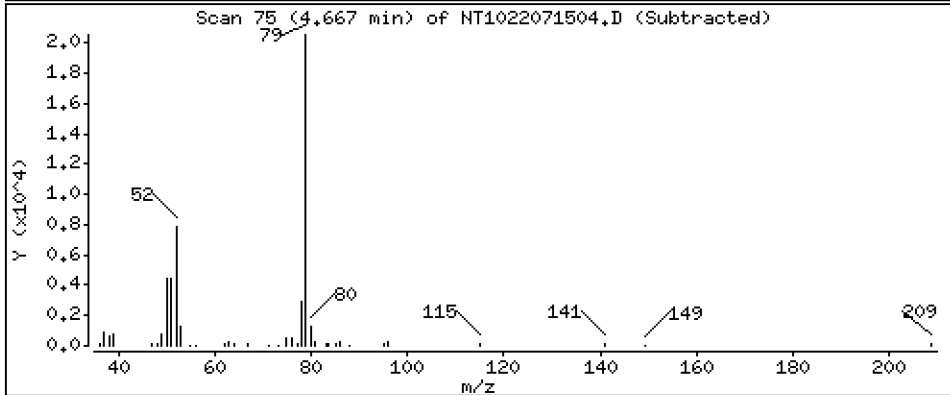
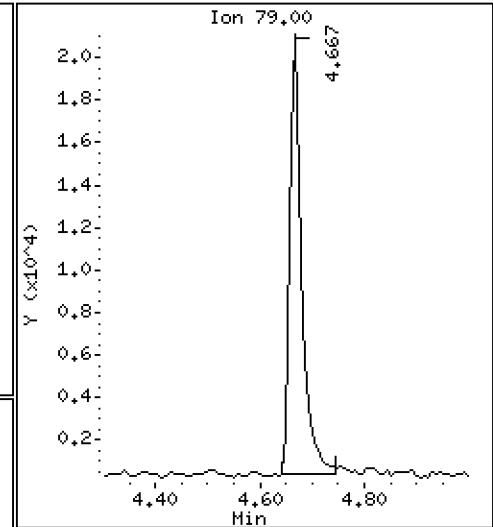
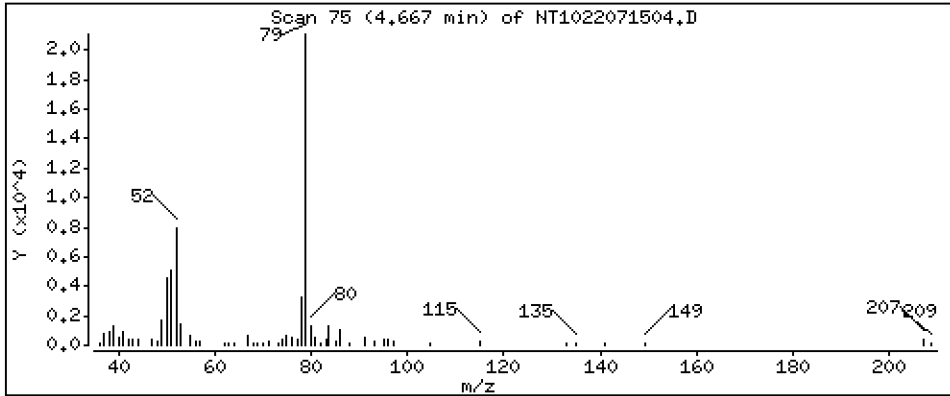
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,1557 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

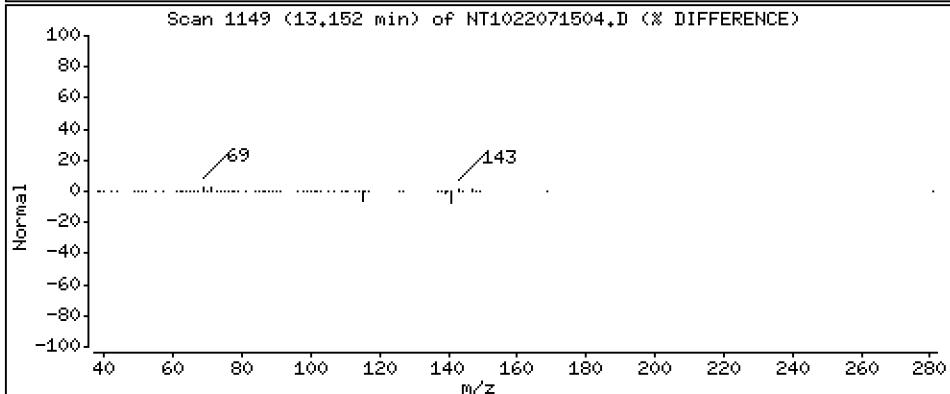
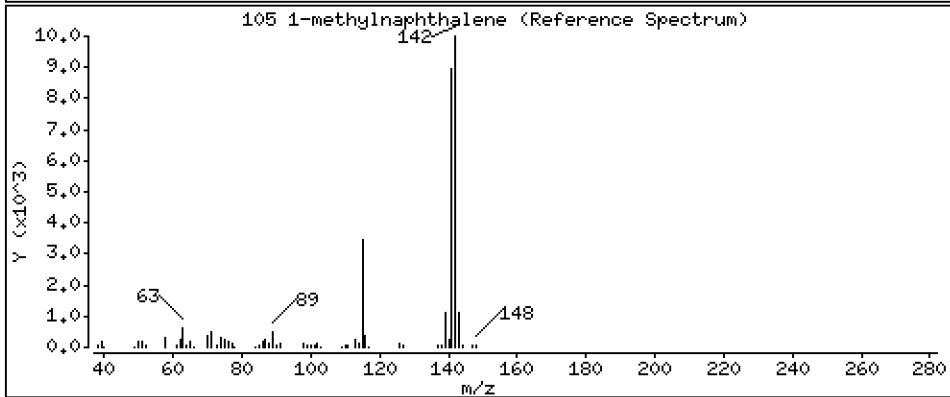
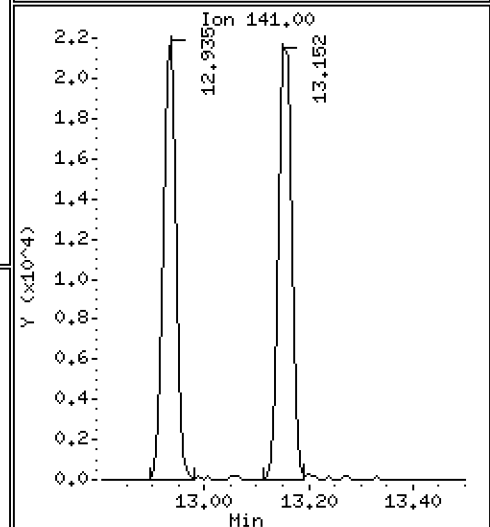
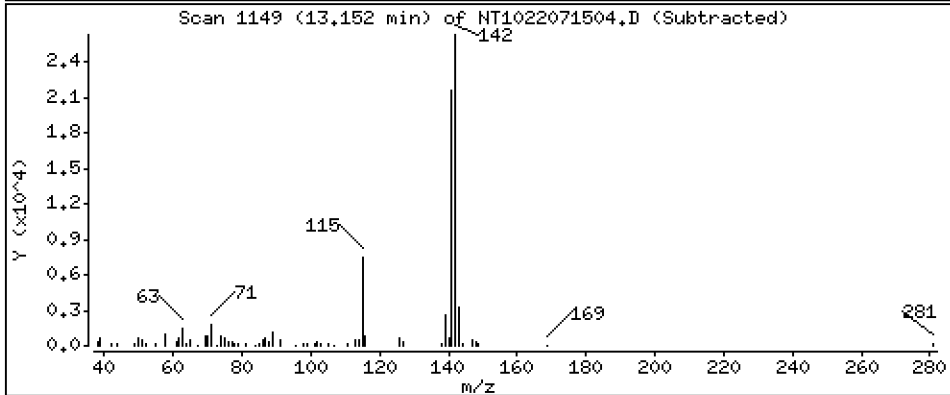
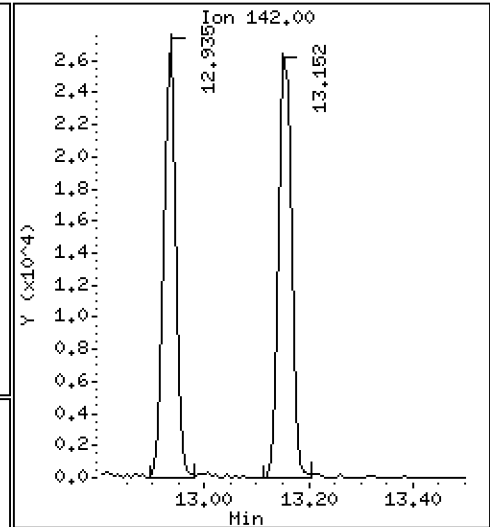
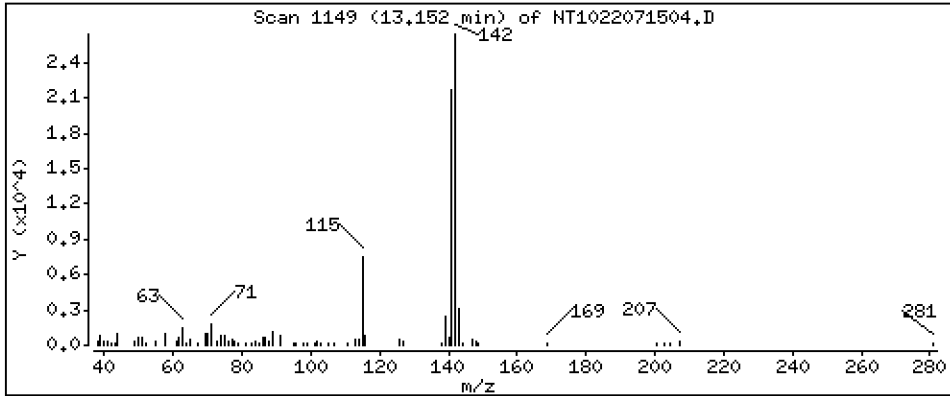
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1836 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

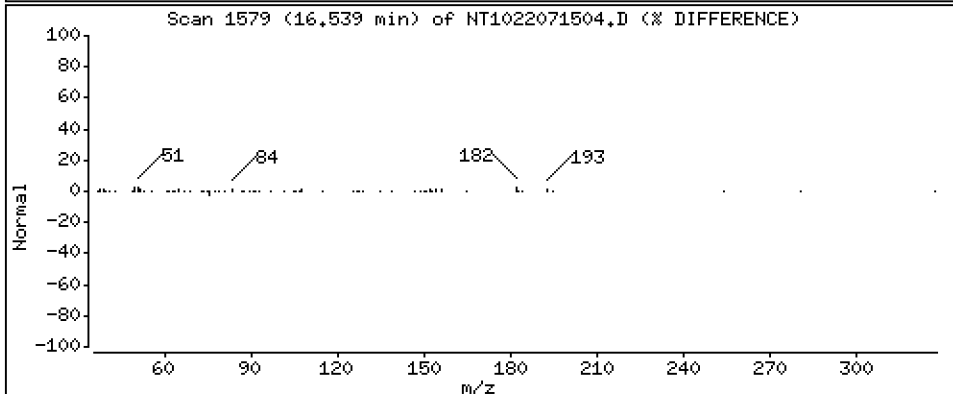
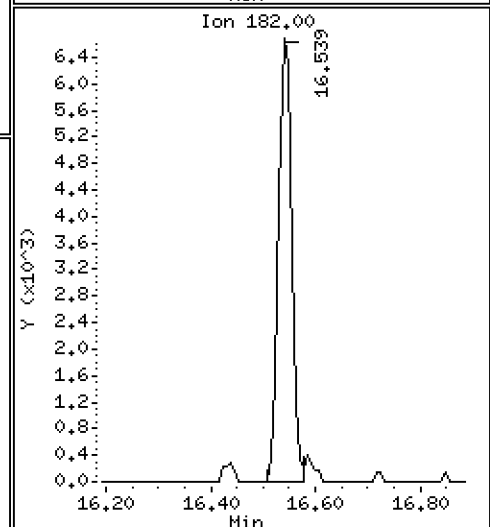
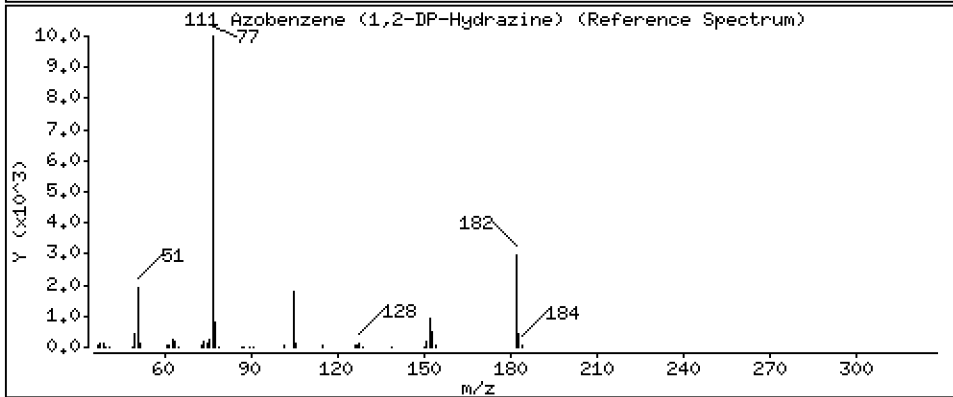
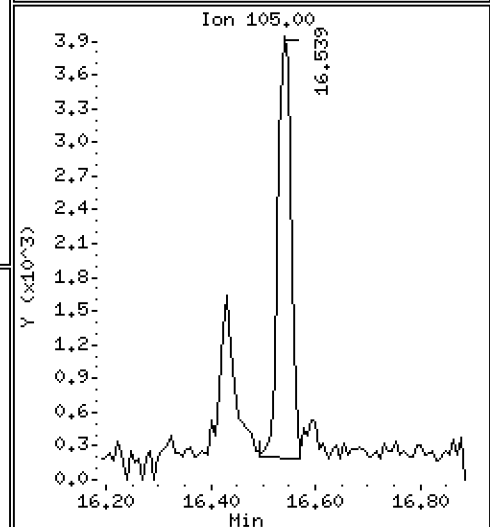
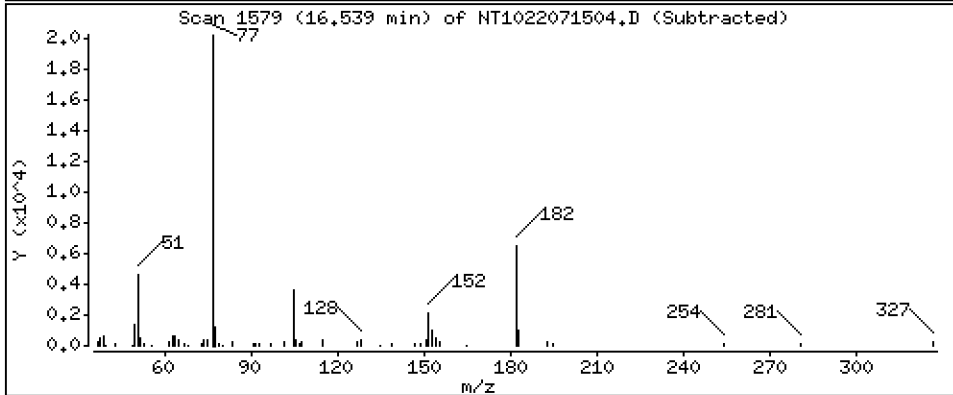
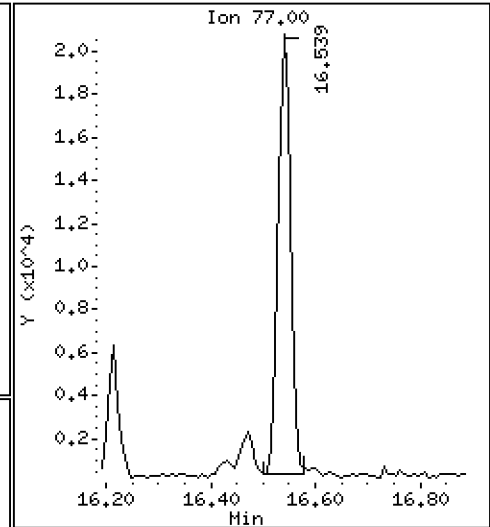
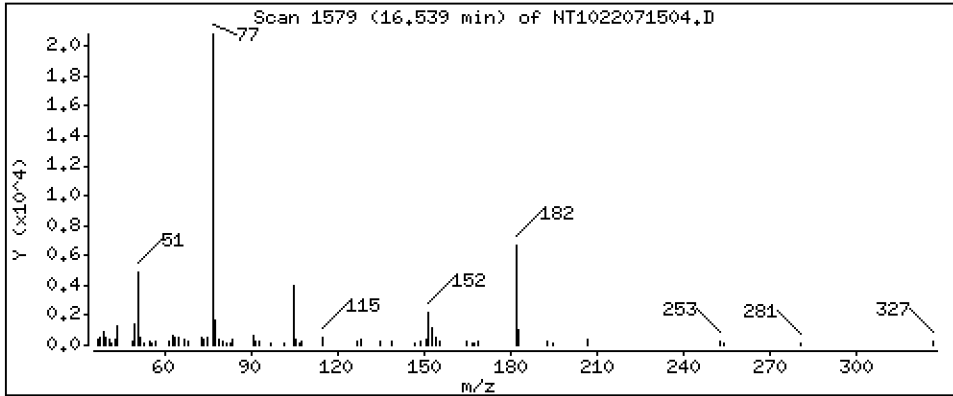
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,1688 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

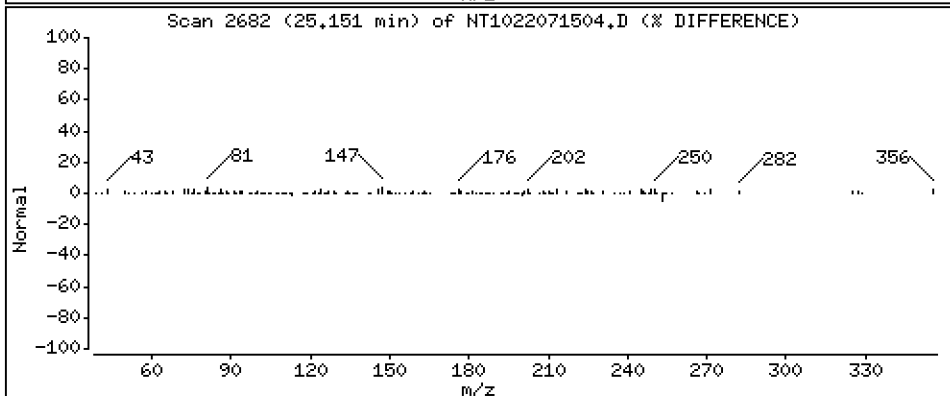
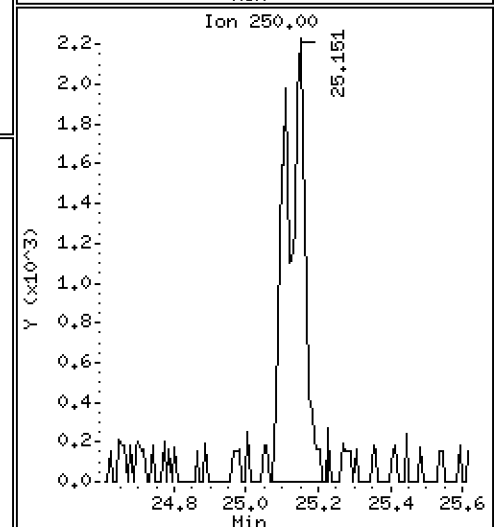
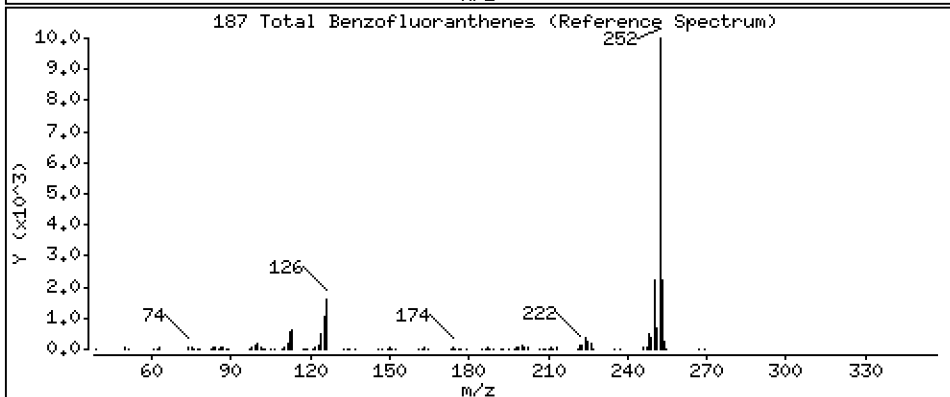
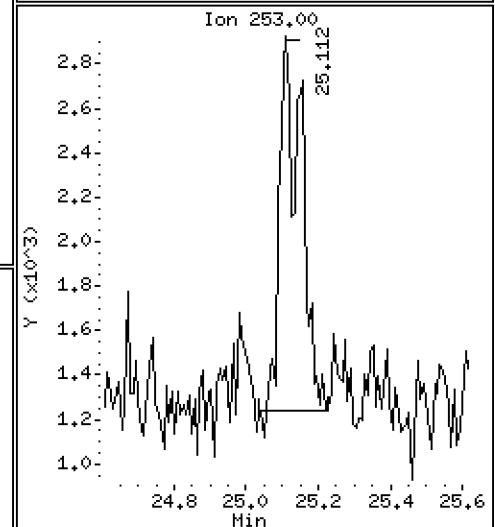
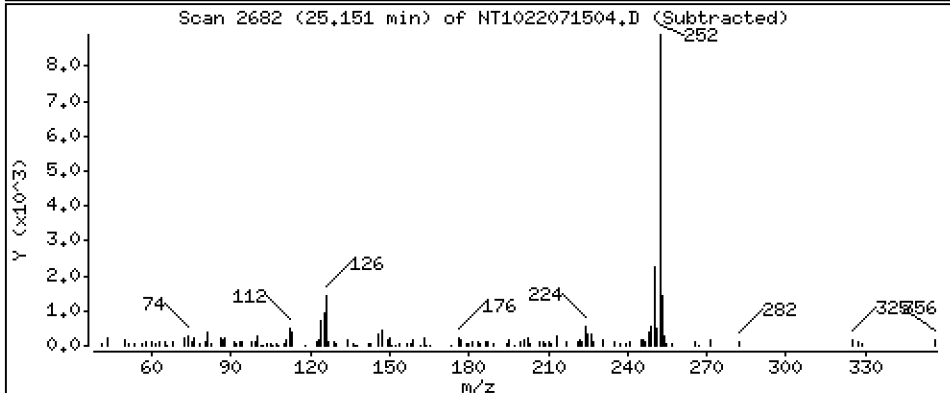
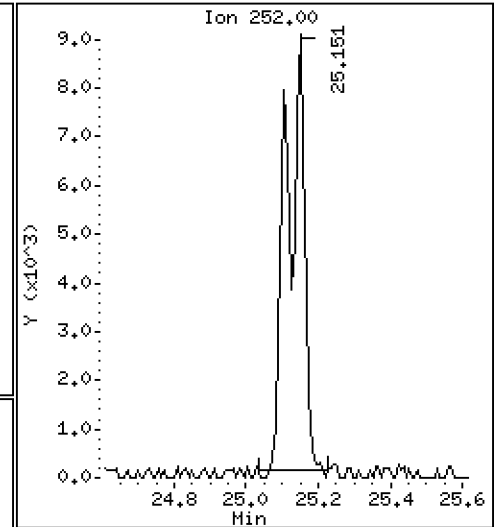
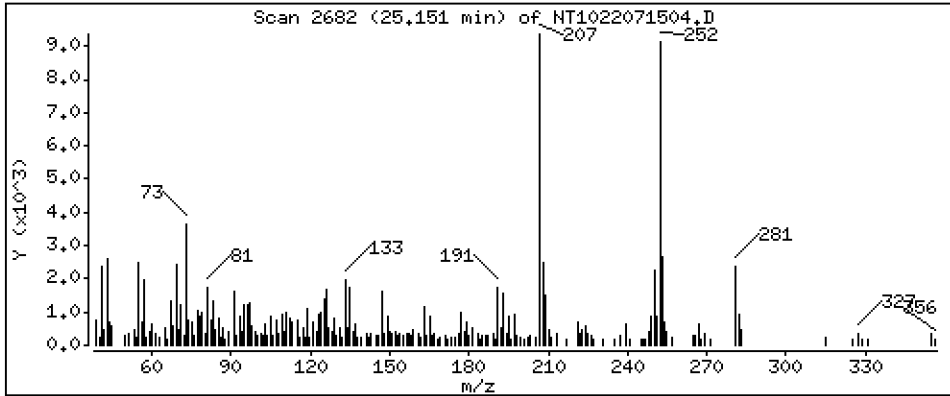
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,3634 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

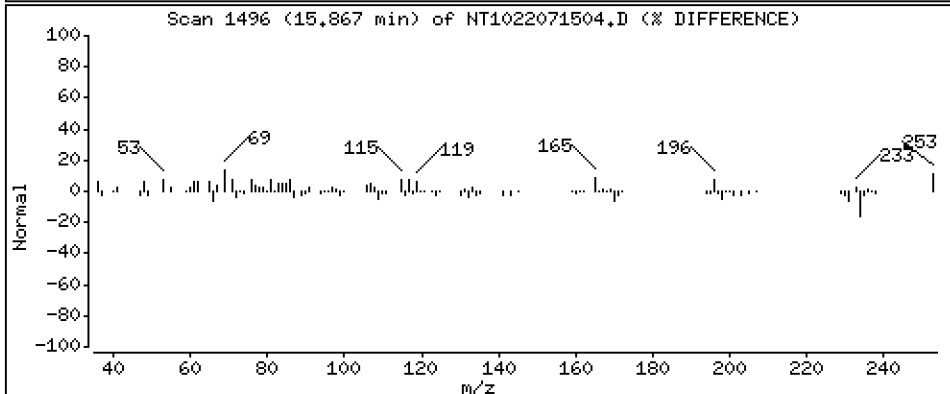
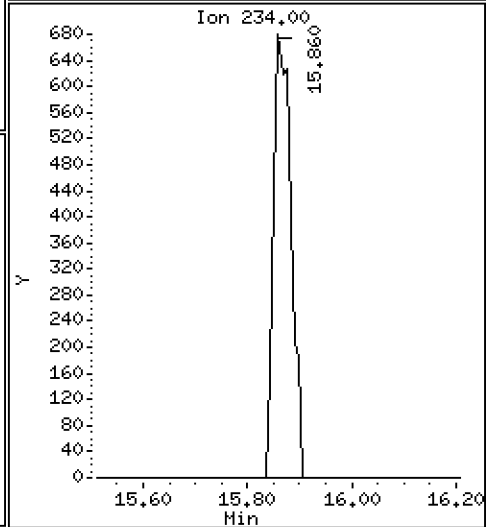
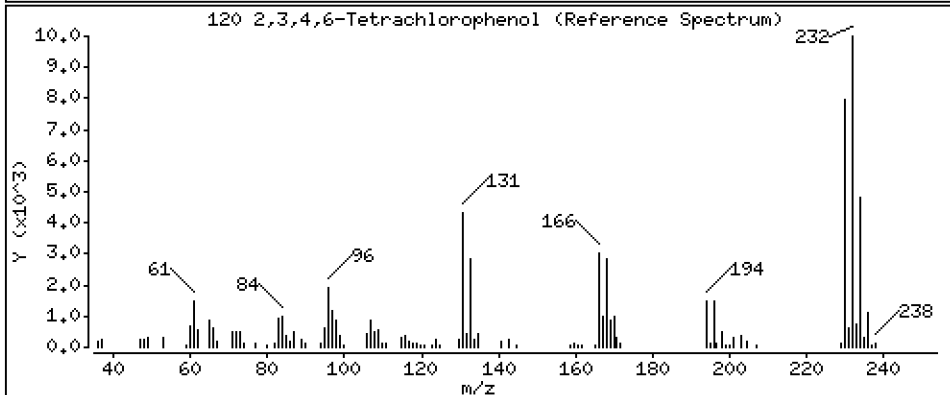
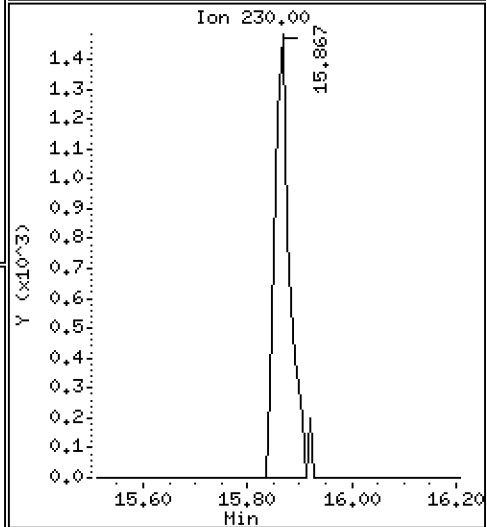
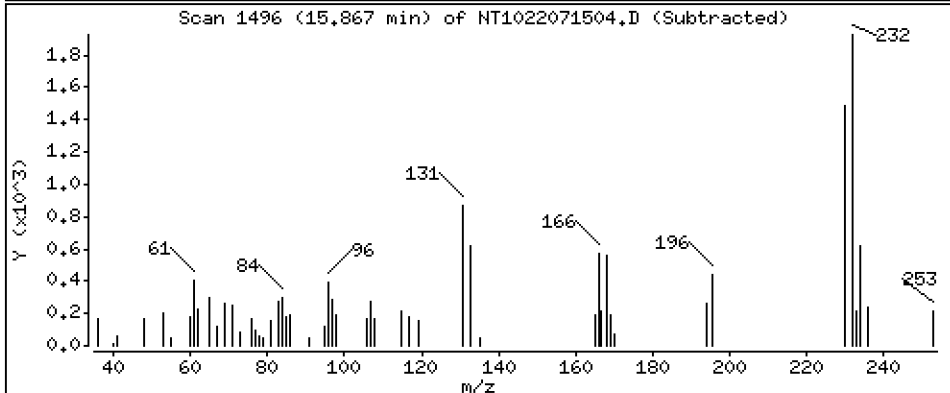
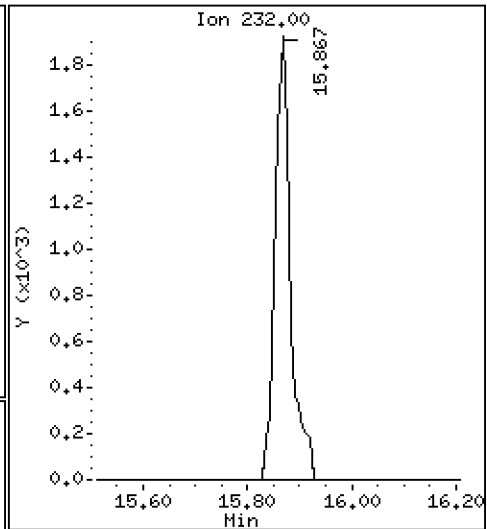
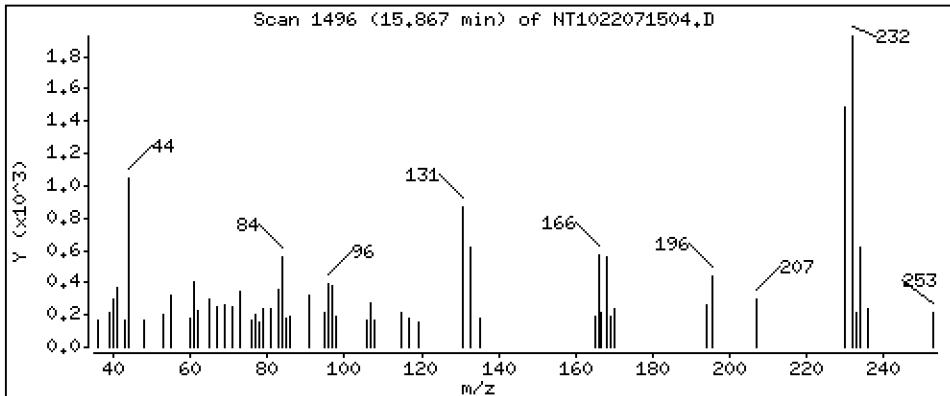
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0.09107 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071504.D
 Lab Smp Id: SKG0154-LCV2
 Inj Date : 15-JUL-2022 14:07
 Operator : VTS
 Smp Info : SKG0154-LCV2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.813	6.806	(0.756)	32115	0.28497	0.2850
\$ 2 Phenol-d5	99		8.405	8.398	(0.933)	38634	0.23104	0.2310
3 Phenol	94		8.428	8.421	(0.936)	25924	0.17791	0.1779
\$ 5 2-Chlorophenol-d4	132		8.660	8.652	(0.961)	33611	0.29270	0.2927
4 Bis(2-Chloroethyl)ether	93		8.552	8.552	(0.949)	23326	0.22243	0.2224
6 2-Chlorophenol	128		8.683	8.683	(0.964)	23761	0.20454	0.2045
7 1,3-Dichlorobenzene	146		8.946	8.939	(0.993)	28134	0.22392	0.2239
* 8 1,4-Dichlorobenzene-d4	152		9.008	9.001	(1.000)	308631	4.00000	
9 1,4-Dichlorobenzene	146		9.039	9.032	(1.003)	19355	0.19543	0.1954
\$ 10 1,2-Dichlorobenzene-d4	152		9.365	9.366	(1.040)	13898	0.19641	0.1964
12 1,2-Dichlorobenzene	146		9.396	9.389	(1.043)	22613	0.21508	0.2151
11 Benzyl alcohol	108		9.288	9.280	(1.031)	10040	0.17297	0.1730
14 2,2'-oxybis(1-Chloropropane)	121		9.583	9.575	(1.064)	6427	0.25848	0.2585 (M)
13 2-Methylphenol	108		9.528	9.529	(1.058)	17162	0.19103	0.1910
17 Hexachloroethane	117		9.979	9.979	(1.108)	8021	0.18168	0.1817
16 N-Nitroso-di-n-propylamine	70		9.831	9.831	(1.091)	11684	0.18700	0.1870
15 4-Methylphenol	108		9.800	9.793	(1.088)	18138	0.18892	0.1889
\$ 18 Nitrobenzene-d5	82		10.103	10.095	(0.879)	18134	0.18103	0.1810
19 Nitrobenzene	77		10.134	10.134	(0.882)	17687	0.17518	0.1752
20 Isophorone	82		10.584	10.584	(0.921)	23442	0.16050	0.1605
21 2-Nitrophenol	139		10.767	10.759	(0.937)	9204	0.14433	0.1443
22 2,4-Dimethylphenol	107		10.835	10.836	(0.943)	33486	0.43224	0.4322
23 Bis(2-Chloroethoxy)methane	93		11.014	11.014	(0.959)	19653	0.22396	0.2240
24 Benzoic acid	105		10.988	11.065	(0.956)	8001	0.20052	0.2005 (M)
25 2,4-Dichlorophenol	162		11.243	11.234	(0.979)	30640	0.38915	0.3892
26 1,2,4-Trichlorobenzene	180		11.411	11.403	(0.993)	20239	0.23948	0.2395
* 27 Naphthalene-d8	136		11.488	11.488	(1.000)	941421	4.00000	
28 Naphthalene	128		11.534	11.535	(1.004)	44488	0.18464	0.1846
29 4-Chloroaniline	127		11.666	11.666	(1.015)	36358	0.34175	0.3418
30 Hexachlorobutadiene	225		11.890	11.890	(1.035)	8710	0.21603	0.2160
31 4-Chloro-3-methylphenol	107		12.664	12.656	(1.102)	24576	0.26497	0.2650
32 2-Methylnaphthalene	142		12.935	12.927	(1.126)	42081	0.17573	0.1757
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT SIG					CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
34 2,4,6-Trichlorophenol	196	13.569	13.569	(0.898)	18133	0.33613	0.3361	
35 2,4,5-Trichlorophenol	196	13.662	13.647	(0.904)	18082	0.27900	0.2790	
§ 36 2-Fluorobiphenyl	172	13.716	13.716	(0.908)	44947	0.20925	0.2093	
37 2-Chloronaphthalene	162	13.925	13.925	(0.922)	38601	0.20385	0.2039	
38 2-Nitroaniline	65	14.188	14.188	(0.939)	14228	0.28090	0.2809	
39 Dimethylphthalate	163	14.622	14.622	(0.968)	37845	0.22735	0.2274	
40 Acenaphthylene	152	14.800	14.800	(0.980)	60005	0.21626	0.2163	
41 2,6-Dinitrotoluene	165	14.761	14.761	(0.977)	14153	0.36609	0.3661	
* 42 Acenaphthene-d10	164	15.109	15.109	(1.000)	474664	4.00000		
43 3-Nitroaniline	138	15.047	15.048	(0.996)	17074	0.37516	0.3752	
44 Acenaphthene	153	15.179	15.179	(1.005)	25195	0.18251	0.1825	
45 2,4-Dinitrophenol	184	Compound Not Detected.						
46 Dibenzofuran	168	15.511	15.511	(1.027)	42167	0.19220	0.1922	
47 4-Nitrophenol	109	15.442	15.419	(1.022)	2429	0.16361	0.1636 (M)	
48 2,4-Dinitrotoluene	165	15.581	15.581	(1.031)	14843	0.28726	0.2873	
50 Diethylphthalate	149	16.083	16.084	(1.064)	29360	0.20561	0.2056	
49 Fluorene	166	16.222	16.223	(1.074)	48228	0.18398	0.1840	
51 4-Chlorophenyl-phenylether	204	16.215	16.215	(1.073)	21748	0.18892	0.1889	
52 4-Nitroaniline	138	16.323	16.323	(1.080)	16722	0.36685	0.3668	
53 4,6-Dinitro-2-methylphenol	198	16.431	16.431	(0.905)	6147	0.18588	0.1859	
54 N-Nitrosodiphenylamine	169	16.469	16.469	(0.907)	32150	0.24252	0.2425	
§ 55 2,4,6-Tribromophenol	330	16.762	16.762	(1.109)	3787	0.17702	0.1770	
56 4-Bromophenyl-phenylether	248	17.225	17.217	(0.948)	12386	0.20166	0.2017	
57 Hexachlorobenzene	284	17.542	17.534	(0.966)	13899	0.23501	0.2350	
58 Pentachlorophenol	266	Compound Not Detected.						
* 59 Phenanthrene-d10	188	18.161	18.161	(1.000)	843064	4.00000		
60 Phenanthrene	178	18.207	18.207	(1.003)	40530	0.18299	0.1830	
61 Anthracene	178	18.300	18.300	(1.008)	40947	0.17348	0.1735	
62 Carbazole	167	18.641	18.641	(1.026)	42408	0.19475	0.1948	
63 Di-n-butylphthalate	149	19.445	19.445	(1.071)	52650	0.16145	0.1614	
64 Fluoranthene	202	20.606	20.606	(0.887)	62095	0.18590	0.1859	
65 Pyrene	202	21.031	21.031	(0.905)	64269	0.21993	0.2199	
§ 66 Terphenyl-d14	244	21.325	21.326	(0.918)	44672	0.26974	0.2697	
67 Butylbenzylphthalate	149	22.262	22.262	(0.958)	23435	0.24444	0.2444	
68 Benzo(a)anthracene	228	23.215	23.215	(0.999)	40243	0.20011	0.2001	
* 69 Chrysene-d12	240	23.238	23.246	(1.000)	474579	4.00000		
70 3,3'-Dichlorobenzidine	252	23.168	23.176	(0.997)	42158	0.64333	0.6433	
71 Chrysene	228	23.284	23.292	(1.002)	26334	0.19778	0.1978	
72 bis(2-Ethylhexyl)phthalate	149	23.308	23.308	(0.959)	18943	0.31438	0.3144	
* 134 Di-n-octylphthalate-d4	153	24.298	24.306	(1.000)	545143	4.00000		
73 Di-n-octylphthalate	149	24.314	24.314	(1.001)	25781	0.20807	0.2081	
74 Benzo(b)fluoranthene	252	25.104	25.112	(0.970)	16277	0.17807	0.1781	
75 Benzo(k)fluoranthene	252	25.150	25.158	(0.972)	18191	0.20696	0.2070	
76 Benzo(a)pyrene	252	25.762	25.762	(0.996)	14933	0.19961	0.1996	
* 77 Perylene-d12	264	25.878	25.878	(1.000)	201832	4.00000		
78 Indeno(1,2,3-cd)pyrene	276	28.544	28.544	(1.103)	12978	0.16248	0.1625	
79 Dibenzo(a,h)anthracene	278	28.552	28.560	(1.103)	10648	0.17413	0.1741	
80 Benzo(g,h,i)perylene	276	29.313	29.329	(1.133)	11601	0.18169	0.1817	
90 N-Nitrosodimethylamine	74	4.627	4.628	(0.514)	20270	0.27490	0.2749	
91 Aniline	93	8.467	8.467	(0.940)	62562	0.42929	0.4293	
93 Benzidine	184	20.846	20.846	(0.897)	42902	0.61277	0.6128	
103 Pyridine	79	4.666	4.651	(0.518)	32542	0.15569	0.1557	
105 1-methylnaphthalene	142	13.151	13.151	(1.145)	43191	0.18359	0.1836	
111 Azobenzene (1,2-DP-Hydrazine)	77	16.539	16.539	(1.095)	32001	0.16881	0.1688	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.150	25.112	(0.972)	30969	0.36337	0.3634
120 2,3,4,6-Tetrachlorophenol	232	15.867	15.859	(1.050)	3819	0.09107	0.09107

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071504.D Calibration Time: 12:41
 Lab Smp Id: SKG0154-LCV2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	308631	53.14
27 Naphthalene-d8	649654	324827	1299308	941421	44.91
42 Acenaphthene-d10	370460	185230	740920	474664	28.13
59 Phenanthrene-d10	647298	323649	1294596	843064	30.24
69 Chrysene-d12	221116	110558	442232	474579	114.63
134 Di-n-octylphthala	319144	159572	638288	545143	70.81
77 Perylene-d12	105234	52617	210468	201832	91.79

<-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.01	0.08
27 Naphthalene-d8	11.49	10.99	11.99	11.49	-0.00
42 Acenaphthene-d10	15.11	14.61	15.61	15.11	-0.00
59 Phenanthrene-d10	18.16	17.66	18.66	18.16	-0.00
69 Chrysene-d12	23.25	22.75	23.75	23.24	-0.03
134 Di-n-octylphthala	24.31	23.81	24.81	24.30	-0.03
77 Perylene-d12	25.88	25.38	26.38	25.88	-0.00

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

REVIEW SUMMARY FOR FILE - NT1022071504.D

Lab ID: SKG0154-LCV2
nt10.i, ABN.m, 15-JUL-2022 14:07

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.956	0.963	-0.0066	Benzoic acid

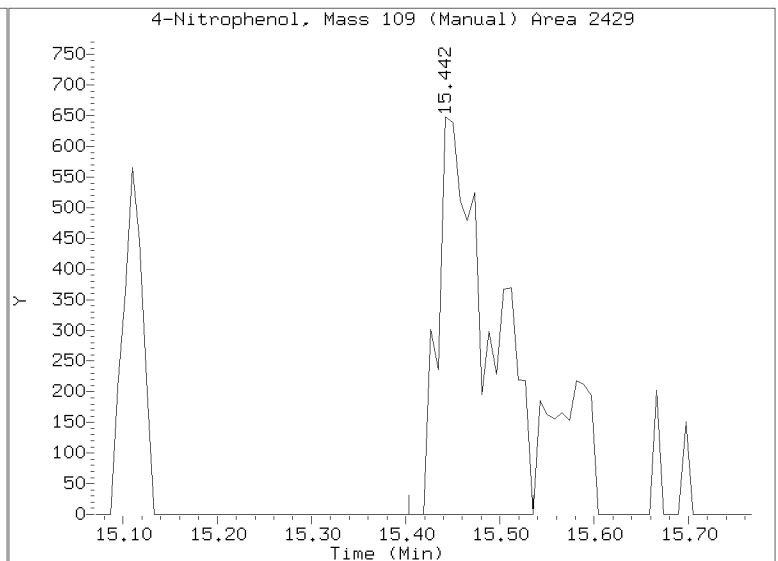
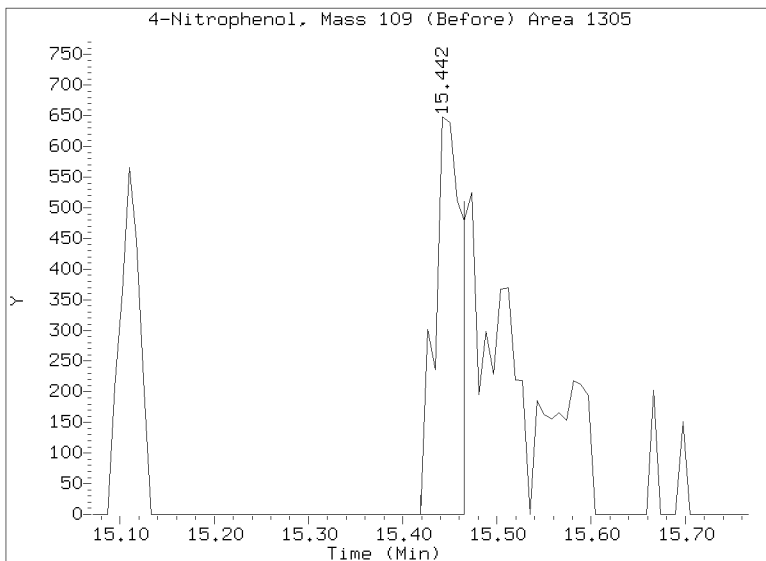
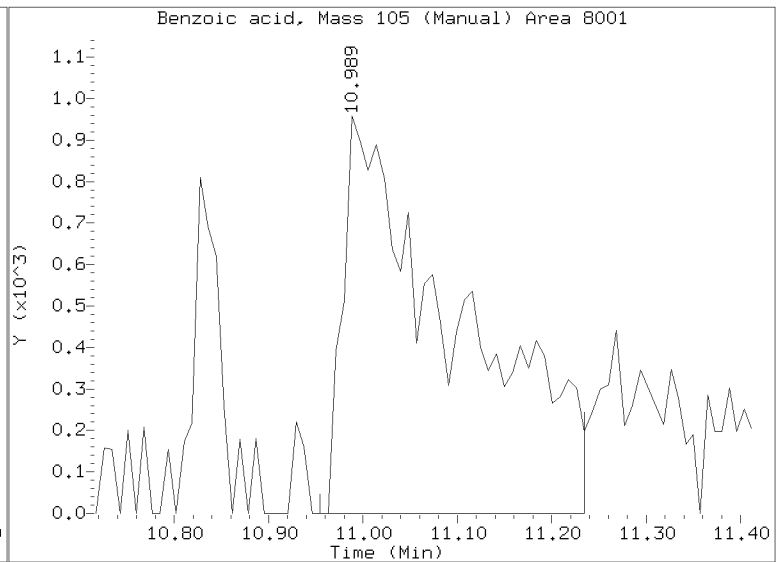
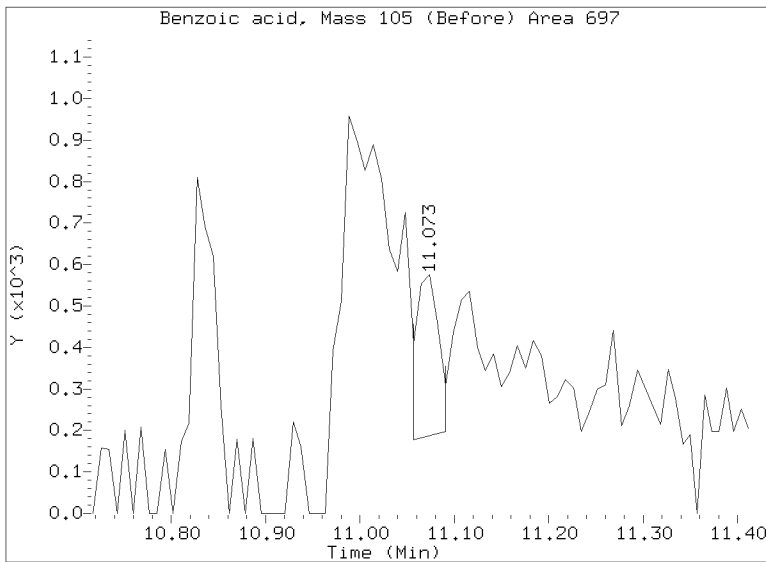
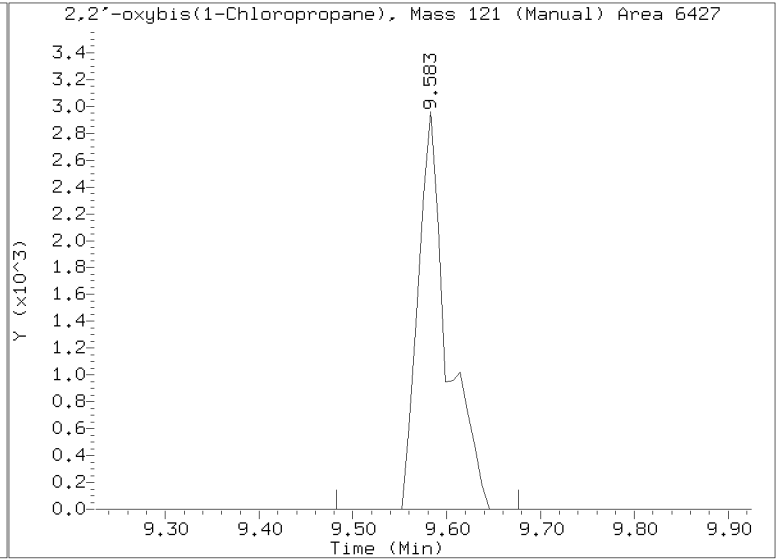
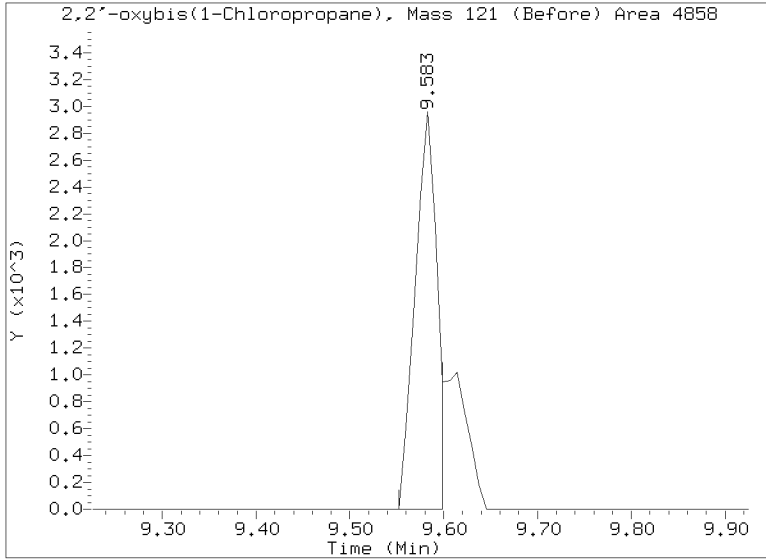
RRT check based on Ccal File: NT1022071502.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071504.D
Injection Date: 15-JUL-2022 14:07
Lab ID:SKG0154-LCV2 Client ID:
Report Date: 07/16/2022 09:01





**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FF00062

Laboratory ID: SKG0171-LCV1

Sequence: SKG0171

Standard ID: K005648

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.20000	0.2	-0.3	50.00
bis(2-chloroethyl) ether	0.20000	0.2	5.1	50.00
2-Chlorophenol	0.20000	0.2	0.4	50.00
1,3-Dichlorobenzene	0.20000	0.3	39.7	50.00
1,4-Dichlorobenzene	0.20000	0.2	0.3	50.00
1,2-Dichlorobenzene	0.20000	0.2	8.3	50.00
Benzyl Alcohol	0.20000	0.2	1.9	50.00
2,2'-Oxybis(1-chloropropane)	0.20000	0.3	27.4	50.00
2-Methylphenol	0.20000	0.2	-8.4	50.00
Hexachloroethane	0.20000	0.2	-6.7	50.00
N-Nitroso-di-n-Propylamine	0.20000	0.2	-0.06	50.00
4-Methylphenol	0.20000	0.2	-2.7	50.00
Nitrobenzene	0.20000	0.2	-13.5	50.00
Isophorone	0.20000	0.2	-22.1	50.00
2-Nitrophenol	0.20000	0.1	-32.5	50.00
2,4-Dimethylphenol	0.40000	0.4	-2.1	50.00
Bis(2-Chloroethoxy)methane	0.20000	0.2	7.6	50.00
2,4-Dichlorophenol	0.40000	0.4	-12.3	50.00
1,2,4-Trichlorobenzene	0.20000	0.3	37.2	50.00
Naphthalene	0.20000	0.2	-8.6	50.00
Benzoic acid	0.80000	0.04	-95.4	50.00
4-Chloroaniline	0.40000	0.3	-23.4	50.00
Hexachlorobutadiene	0.20000	0.3	36.4	50.00
4-Chloro-3-Methylphenol	0.40000	0.3	-33.1	50.00
2-Methylnaphthalene	0.20000	0.2	-12.3	50.00
2,4,6-Trichlorophenol	0.40000	0.2	-50.7	50.00
2,4,5-Trichlorophenol	0.40000	0.2	-53.1	50.00
2-Chloronaphthalene	0.20000	0.1	-33.7	50.00
2-Nitroaniline	0.40000	0.2	-53.6	50.00



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FF00062

Laboratory ID: SKG0171-LCV1

Sequence: SKG0171

Standard ID: K005648

Acenaphthylene	0.20000	0.1	-32.2	50.00
Dimethylphthalate	0.20000	0.1	-29.6	50.00
2,6-Dinitrotoluene	0.40000	0.2	-43.0	50.00
Acenaphthene	0.20000	0.2	-6.8	50.00
3-Nitroaniline	0.40000	0.2	-40.0	50.00
Dibenzofuran	0.20000	0.1	-27.9	50.00
4-Nitrophenol	0.40000	0.1	-63.0	50.00
2,4-Dinitrotoluene	0.40000	0.2	-54.4	50.00
Fluorene	0.20000	0.1	-47.1	50.00
4-Chlorophenylphenyl ether	0.20000	0.1	-48.4	50.00
Diethyl phthalate	0.20000	0.08	-60.0	50.00
4-Nitroaniline	0.40000	0.3	-30.0	50.00
4,6-Dinitro-2-methylphenol	0.80000	0.1	-83.1	50.00
N-Nitrosodiphenylamine	0.20000	0.2	24.2	50.00
4-Bromophenyl phenyl ether	0.20000	0.2	3.9	50.00
Hexachlorobenzene	0.20000	0.1	-25.8	50.00
Phenanthrene	0.20000	0.2	-10.3	50.00
Anthracene	0.20000	0.2	-16.0	50.00
Carbazole	0.20000	0.2	-5.3	50.00
Di-n-Butylphthalate	0.20000	0.2	-23.3	50.00
Fluoranthene	0.20000	0.2	-8.6	50.00
Pyrene	0.20000	0.2	11.7	50.00
Butylbenzylphthalate	0.20000	0.2	18.8	50.00
Benzo(a)anthracene	0.20000	0.2	2.1	50.00
3,3'-Dichlorobenzidine	0.60000	0.6	3.7	50.00
Chrysene	0.20000	0.2	-2.2	50.00
bis(2-Ethylhexyl)phthalate	0.20000	0.5	129	50.00
Di-n-Octylphthalate	0.20000	0.2	-3.1	50.00
Benzofluoranthenes, Total	0.40000	0.4	-10.9	50.00
Benzo(a)pyrene	0.20000	0.2	-10.4	50.00
Indeno(1,2,3-cd)pyrene	0.20000	0.2	-3.4	50.00



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Calibration: FF00062

Laboratory ID: SKG0171-LCV1

Sequence: SKG0171

Standard ID: K005648

Dibenzo(a,h)anthracene	0.20000	0.2	-0.8	50.00
Benzo(g,h,i)perylene	0.20000	0.2	4.6	50.00
1-Methylnaphthalene	0.20000	0.2	-12.0	50.00
2-Fluorophenol	0.30000	0.296	-1.4	50.00
Phenol-d5	0.30000	0.245	-18.5	50.00
2-Chlorophenol-d4	0.30000	0.303	0.9	50.00
1,2-Dichlorobenzene-d4	0.20000	0.210	4.9	50.00
Nitrobenzene-d5	0.20000	0.175	-12.6	50.00
2-Fluorobiphenyl	0.20000	0.136	-31.8	50.00
2,4,6-Tribromophenol	0.30000	0.0831	-72.3	50.00
p-Terphenyl-d14	0.20000	0.249	24.7	50.00

* Values outside of QC limits

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Date: 16-JUL-2022 10:19

Client ID:

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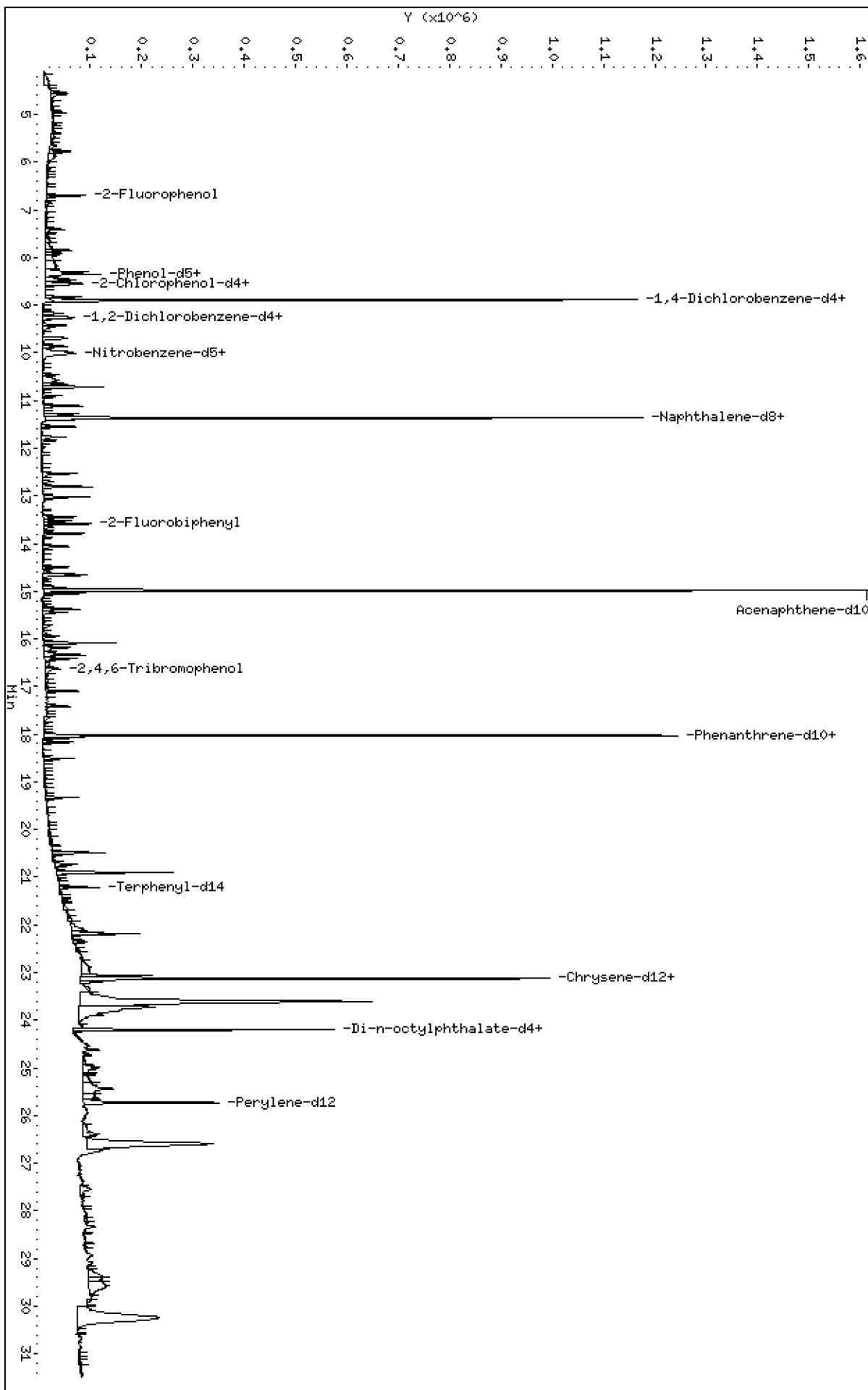
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

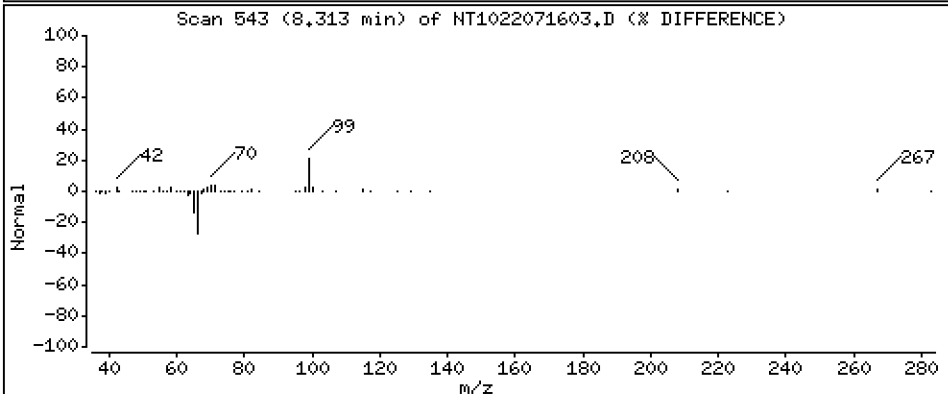
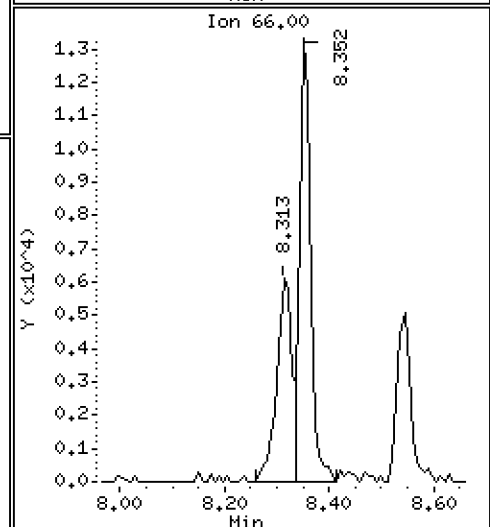
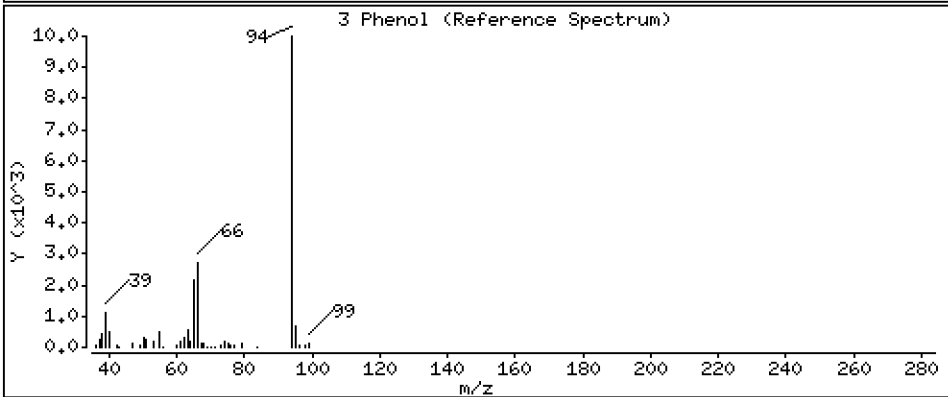
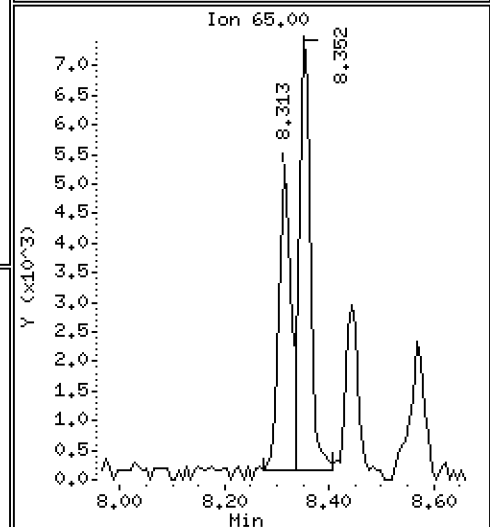
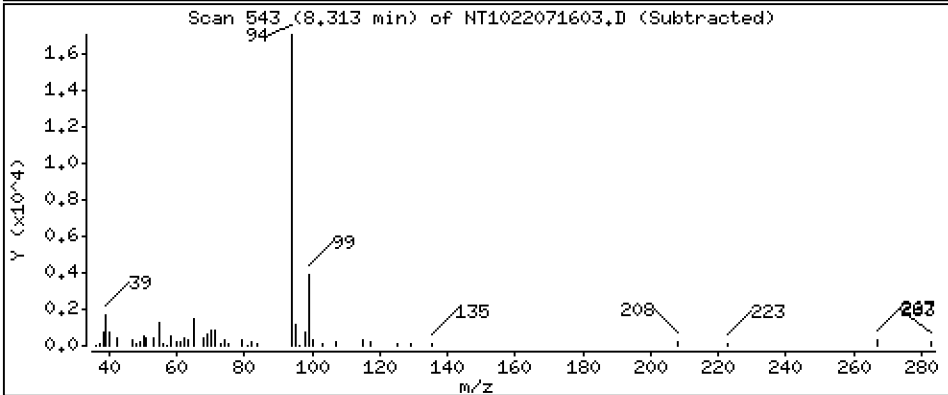
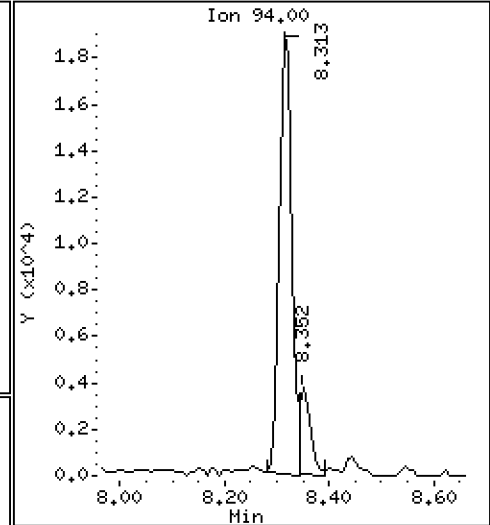
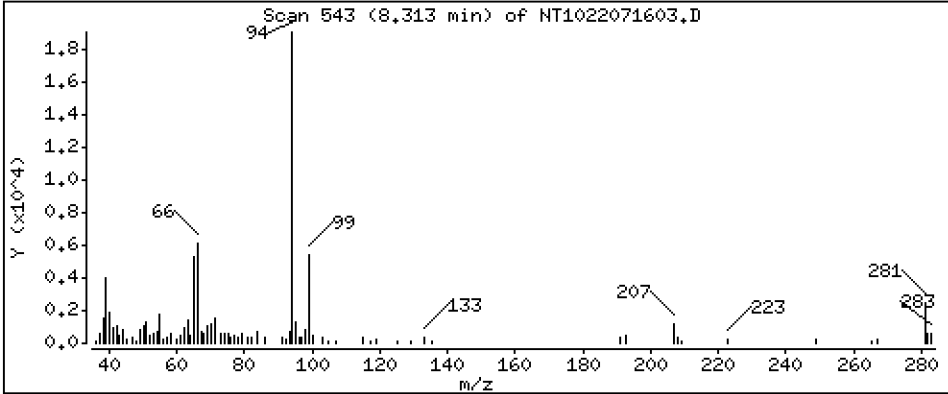
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,1994 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

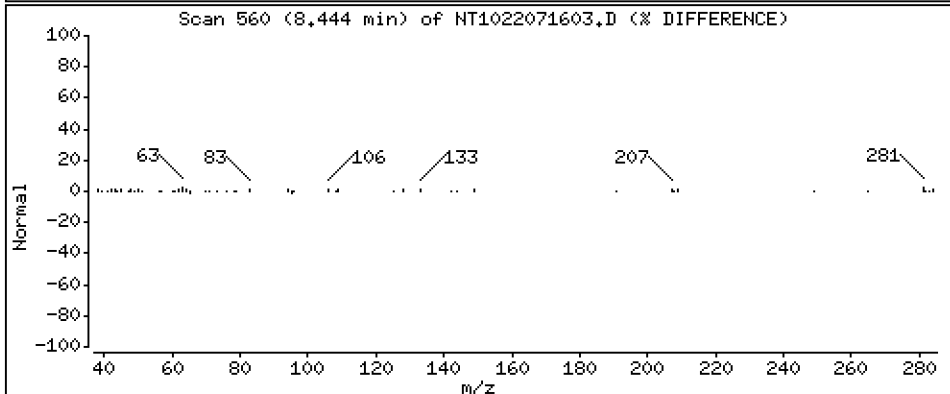
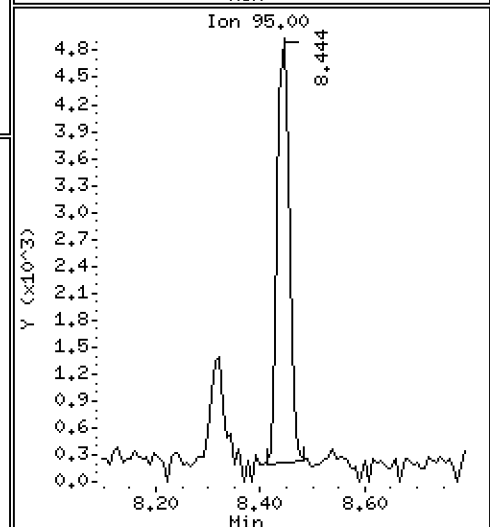
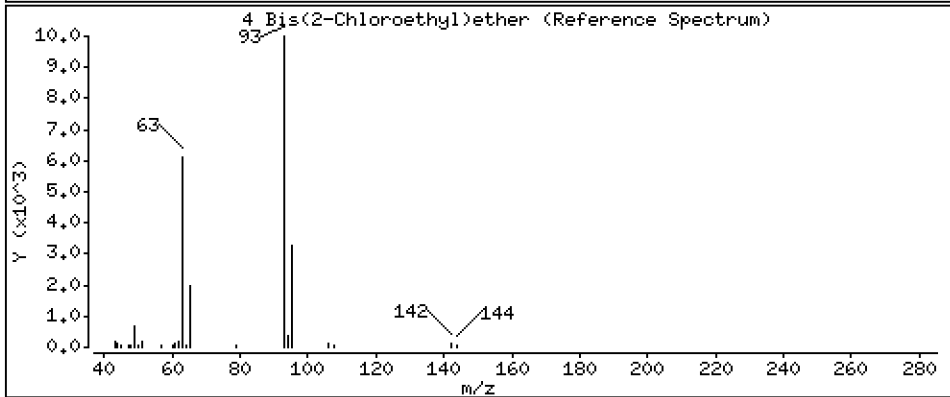
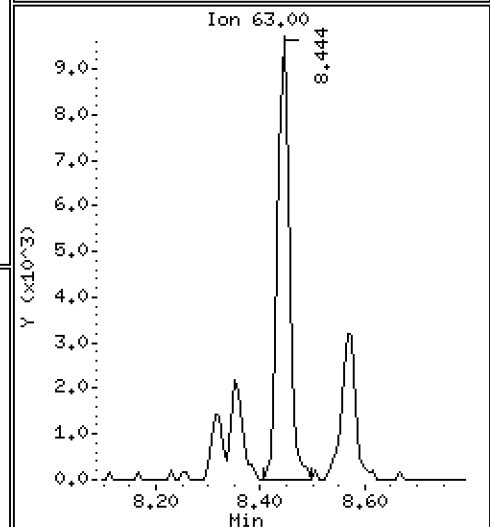
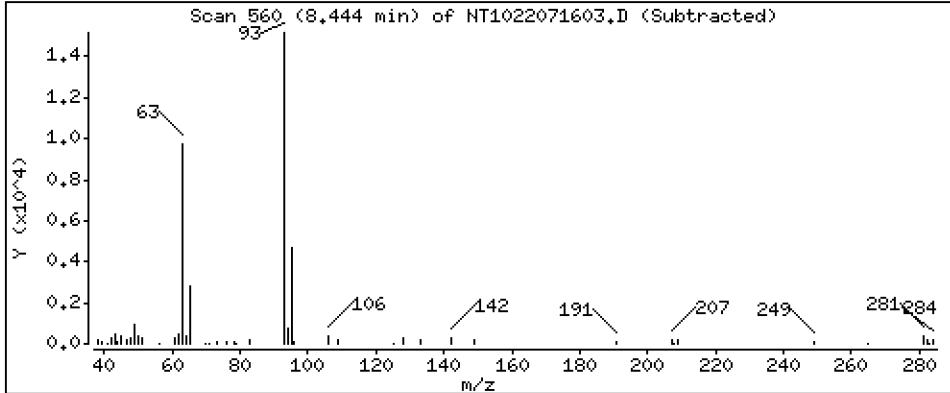
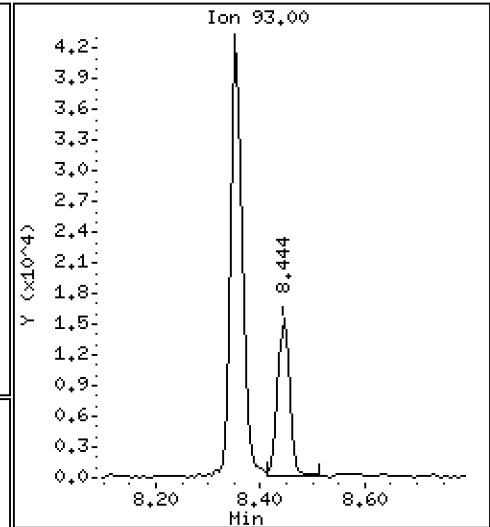
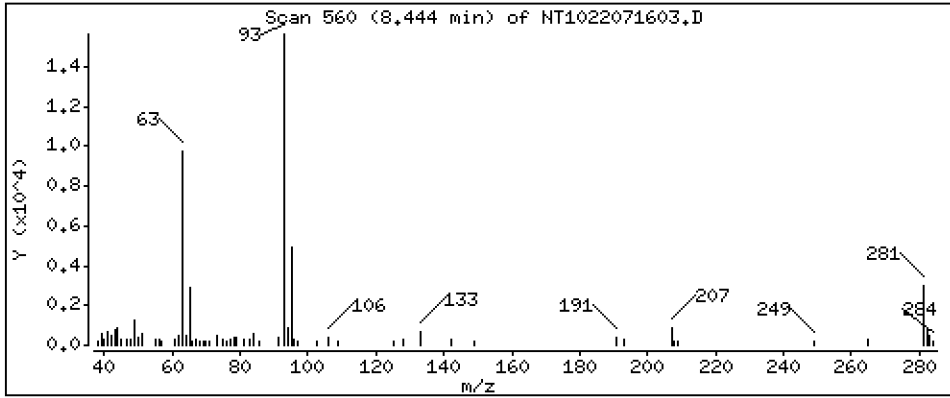
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2102 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

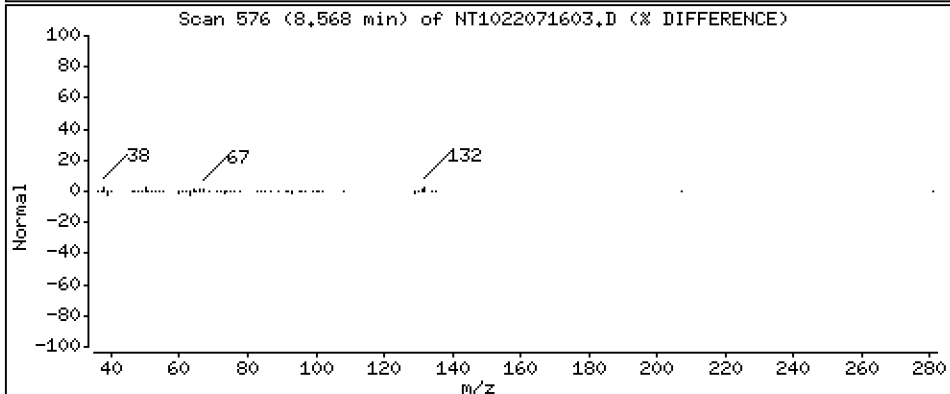
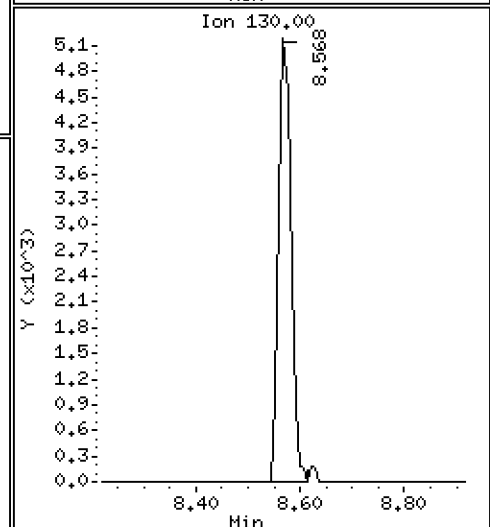
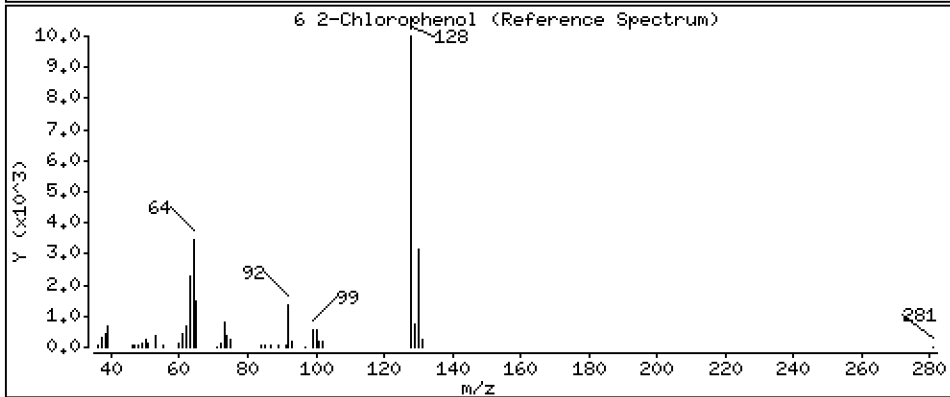
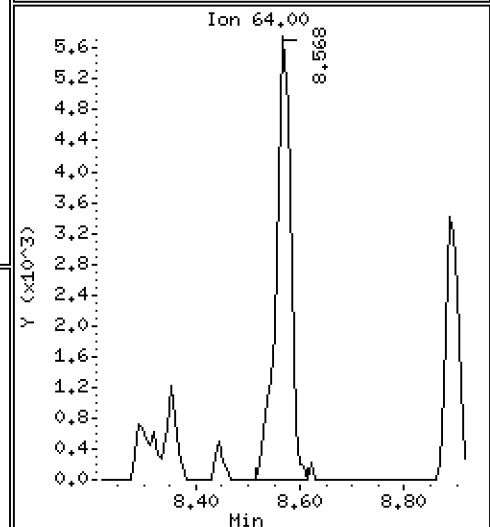
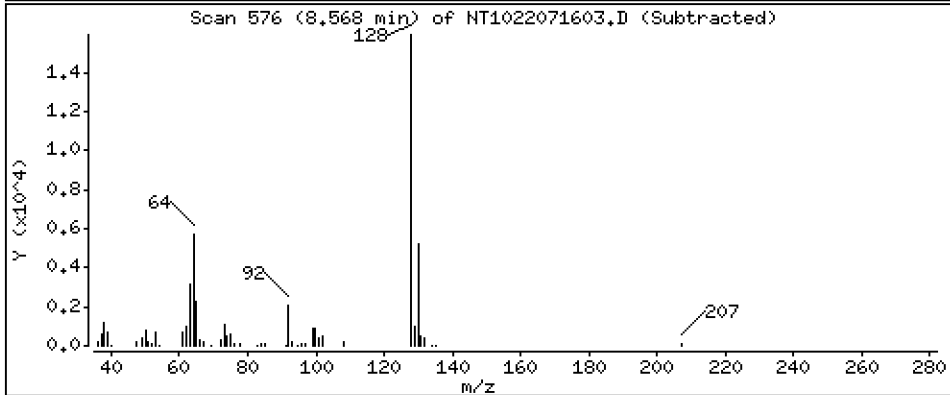
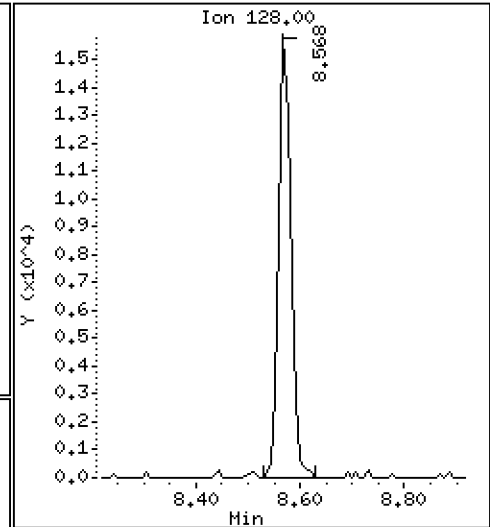
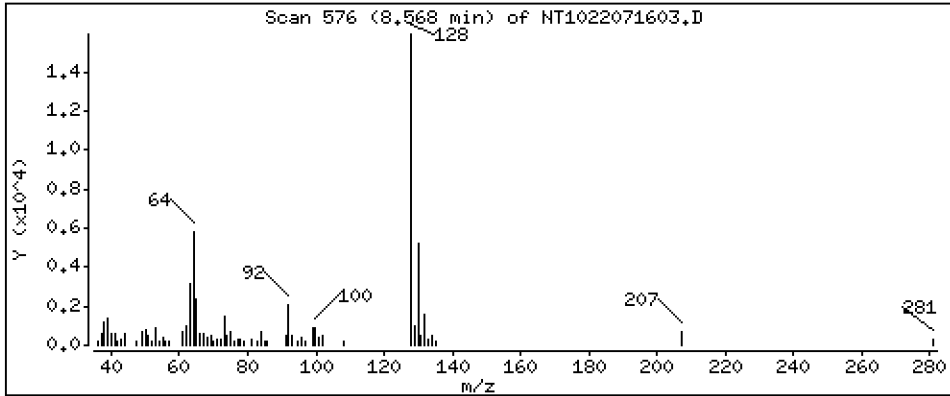
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,2009 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

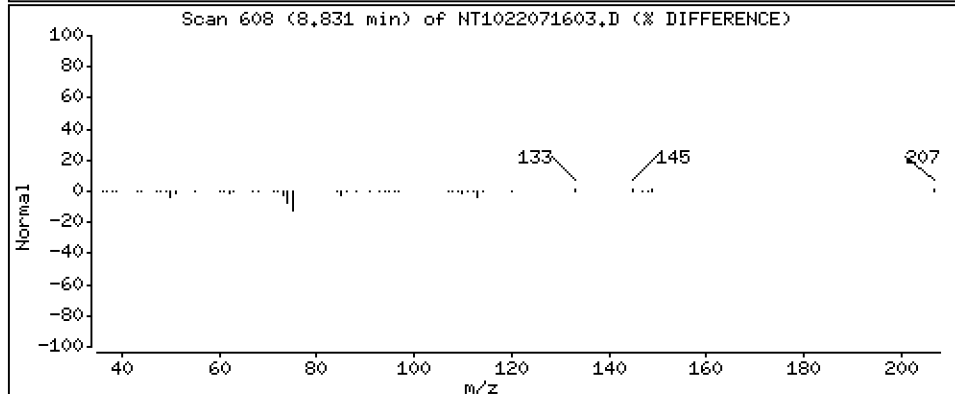
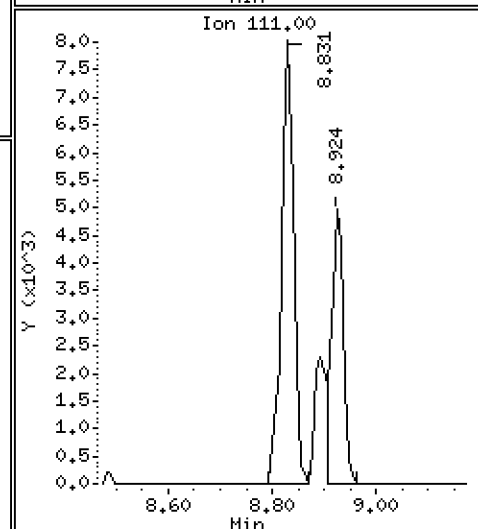
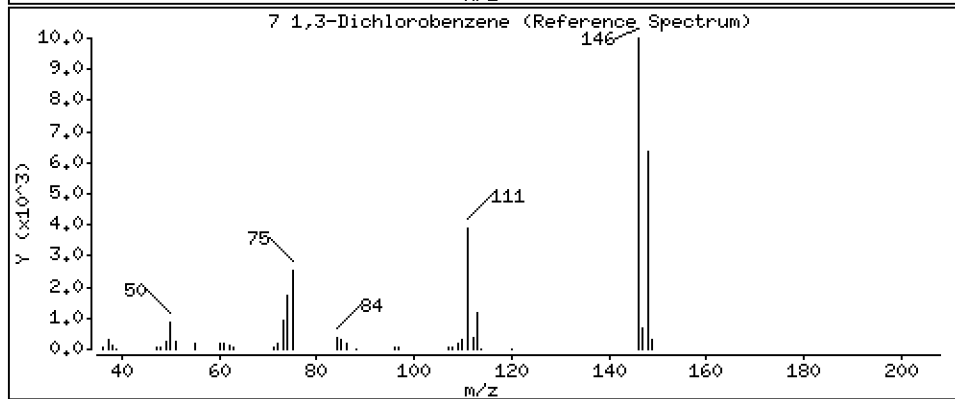
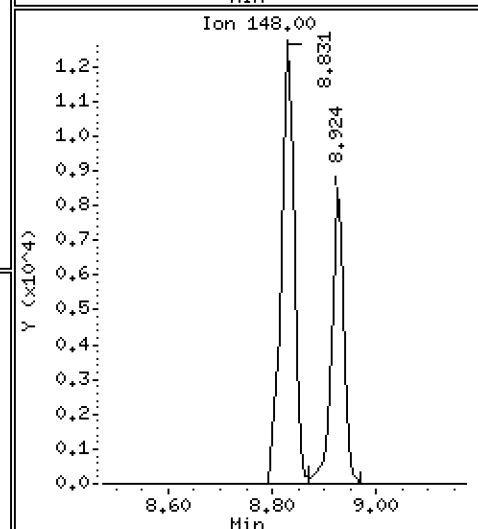
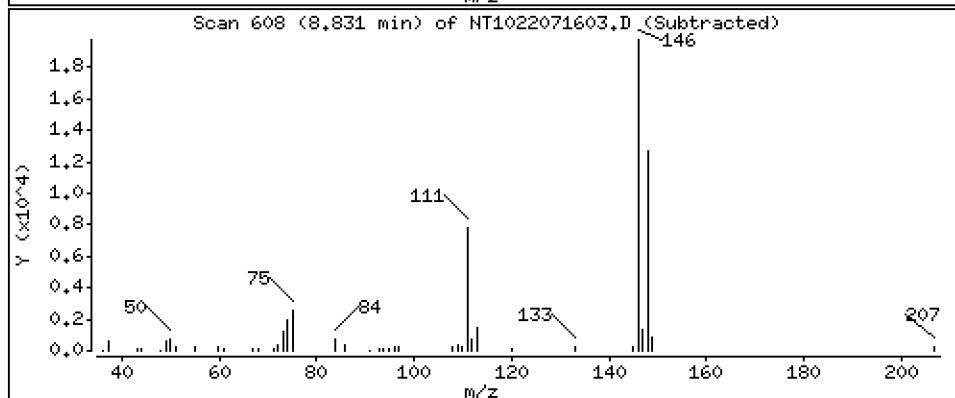
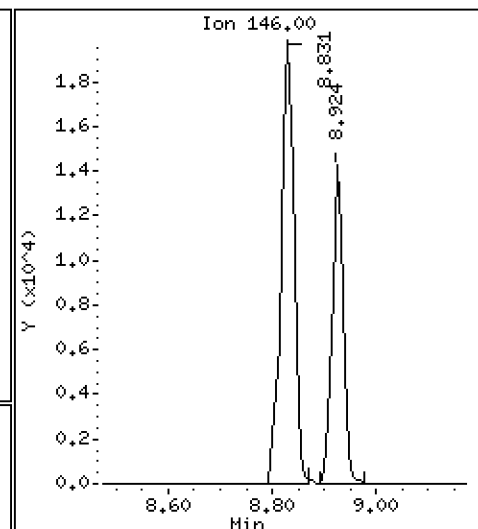
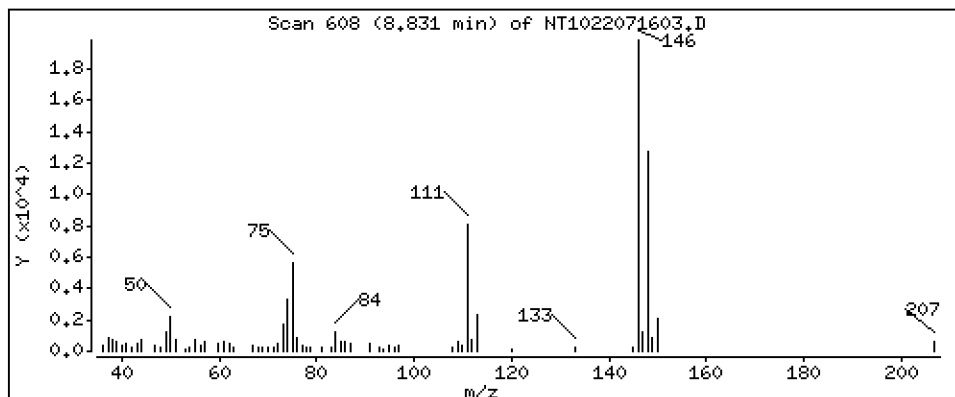
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2794 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

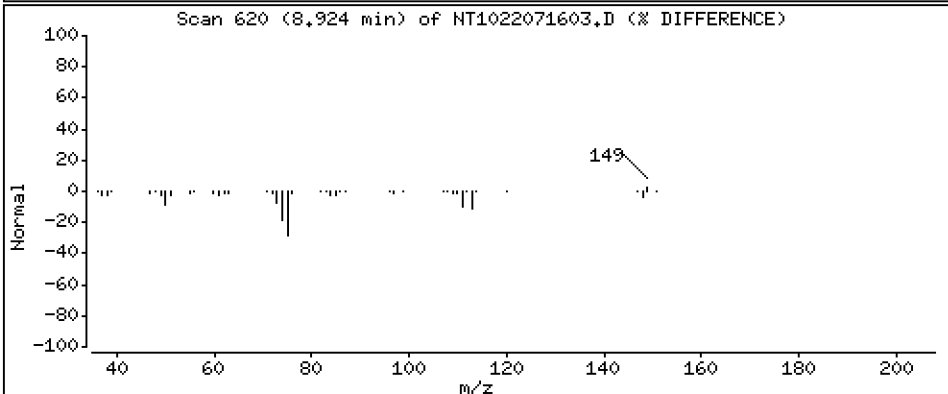
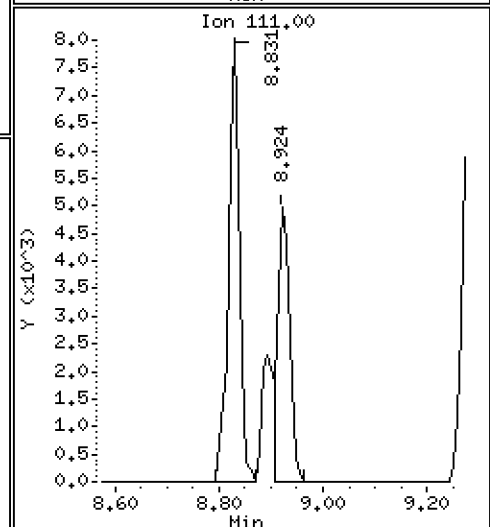
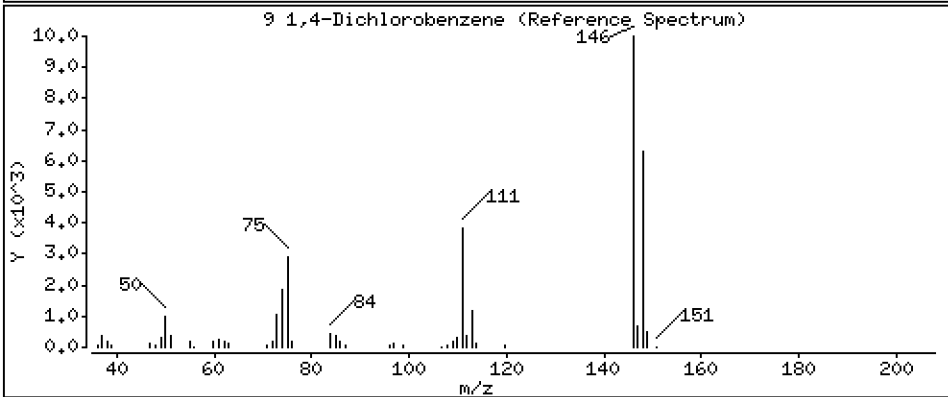
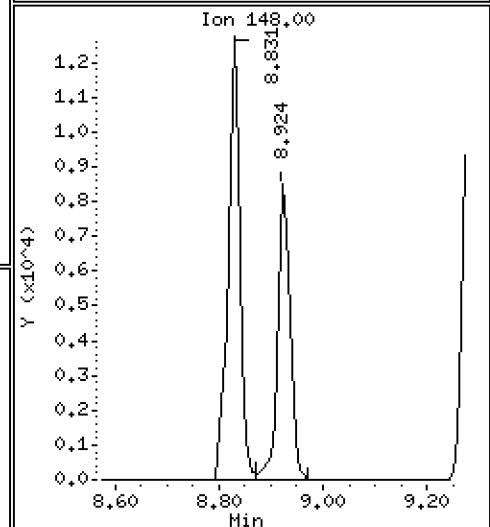
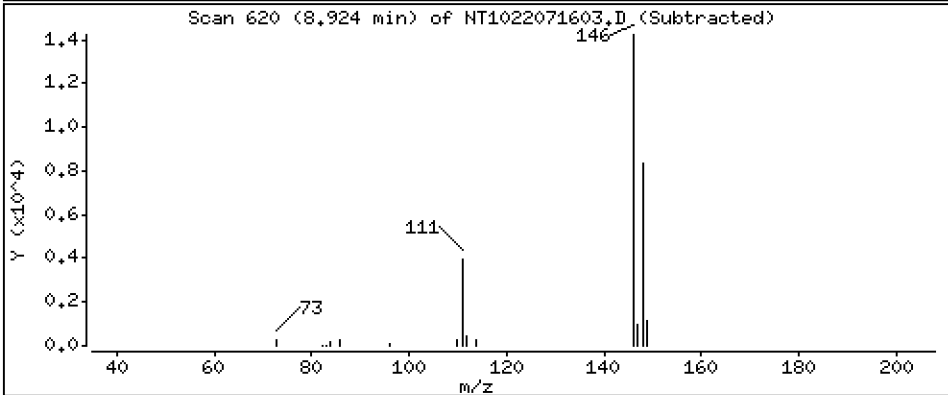
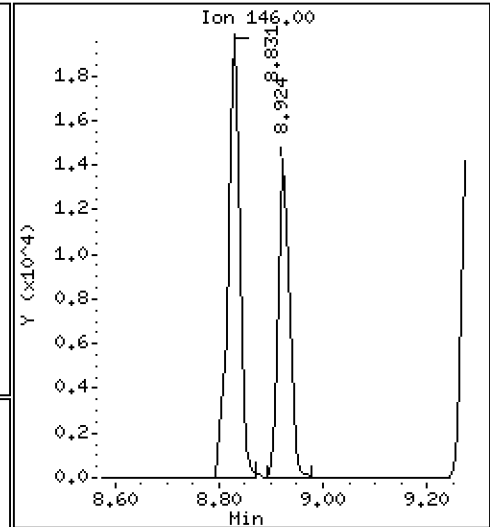
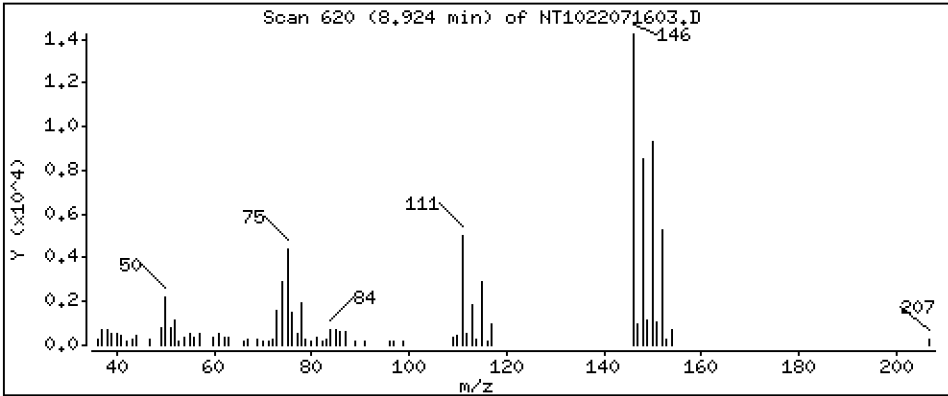
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2006 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

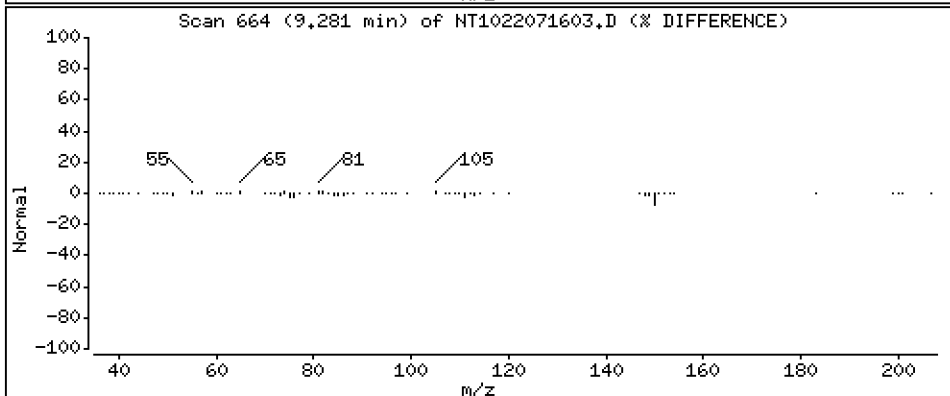
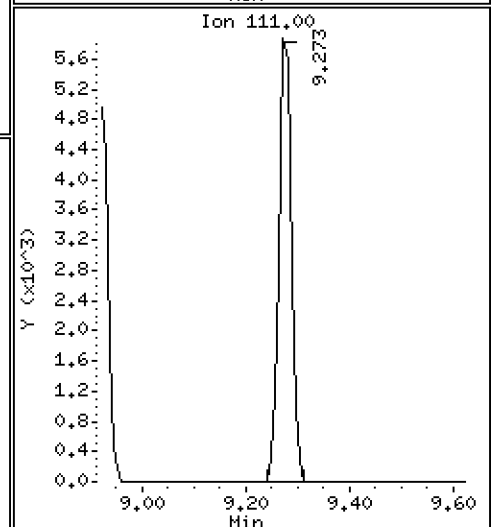
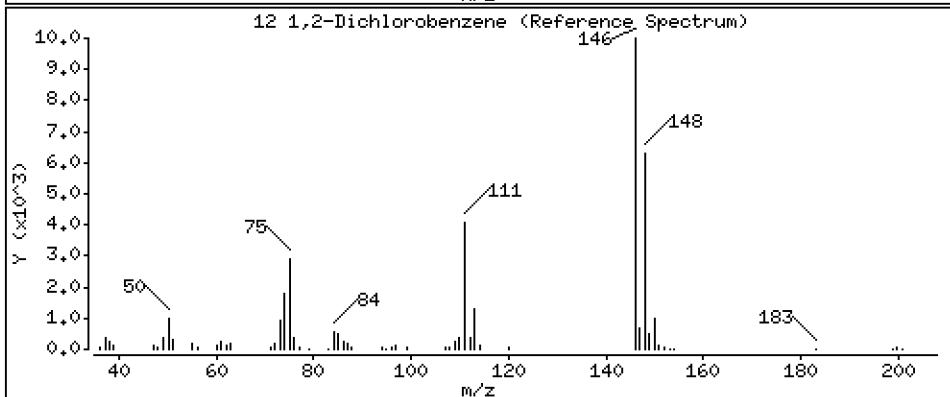
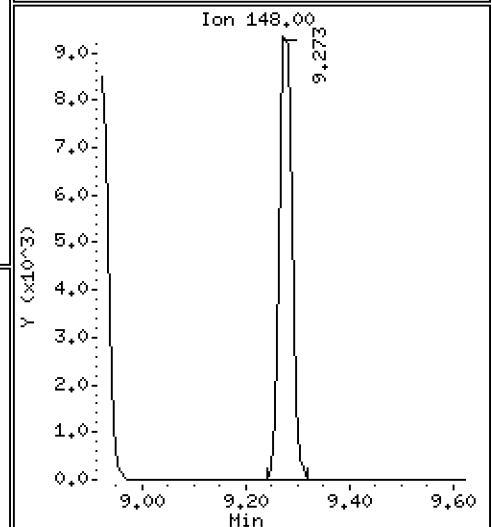
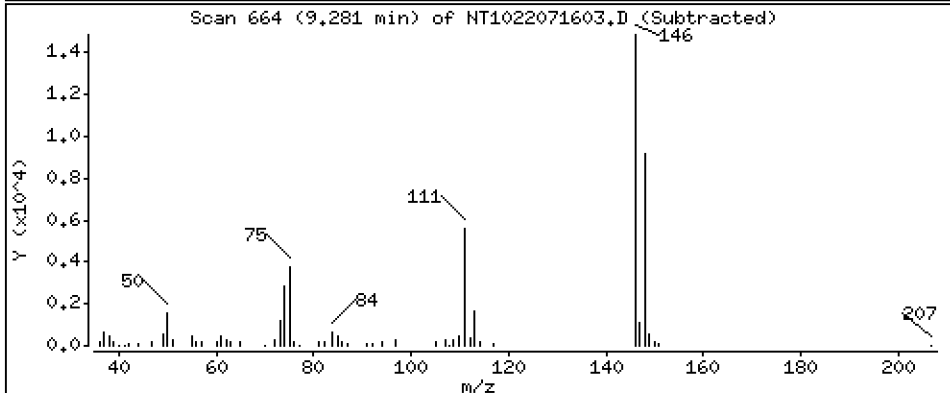
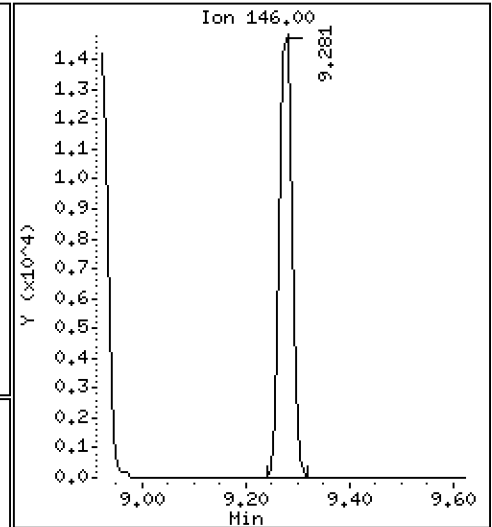
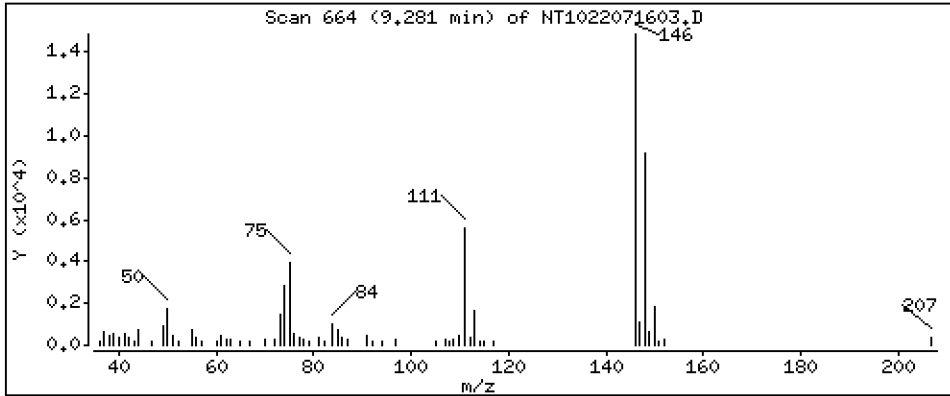
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2166 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

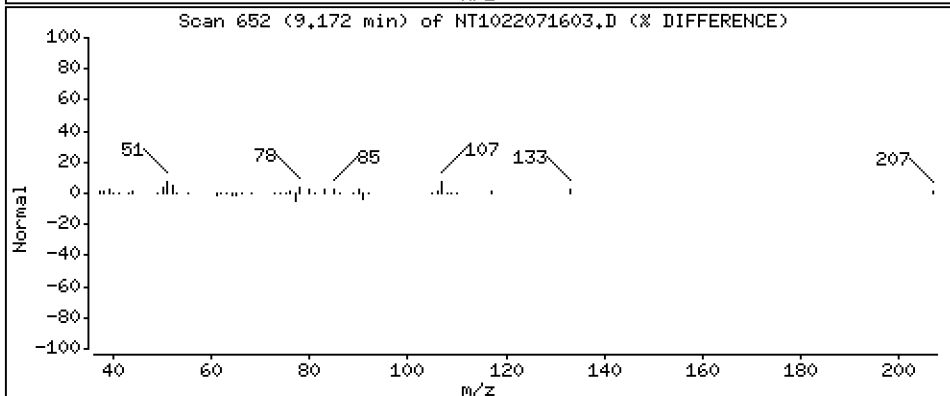
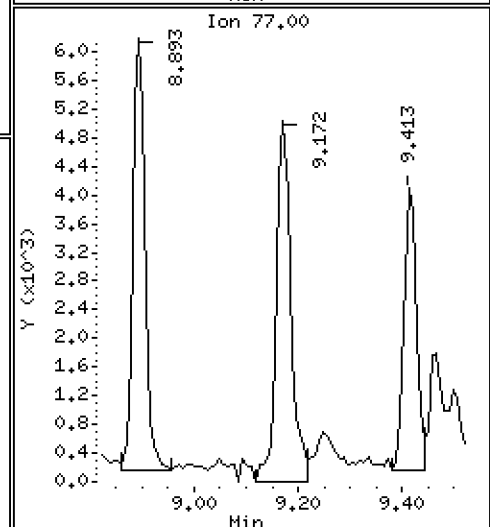
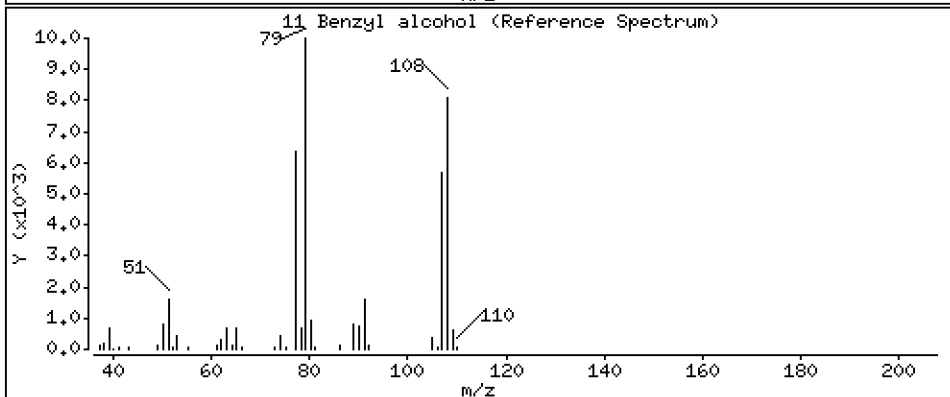
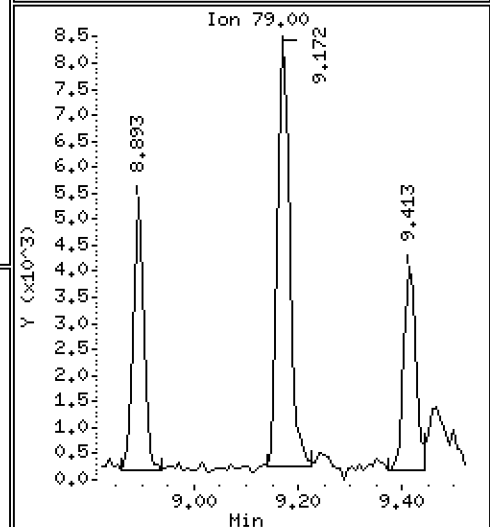
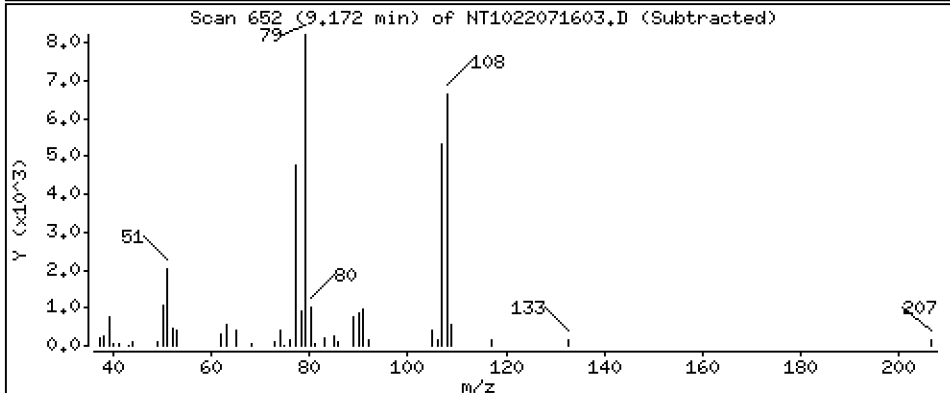
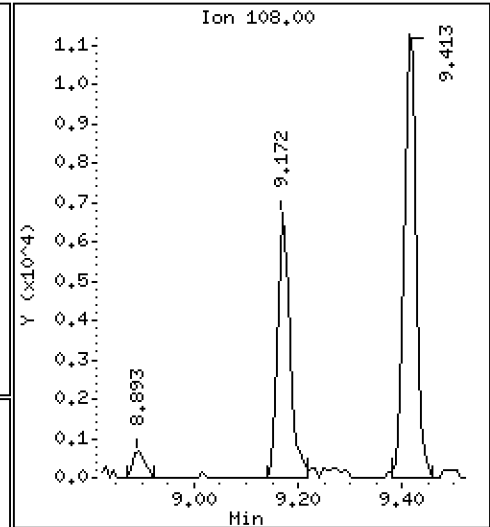
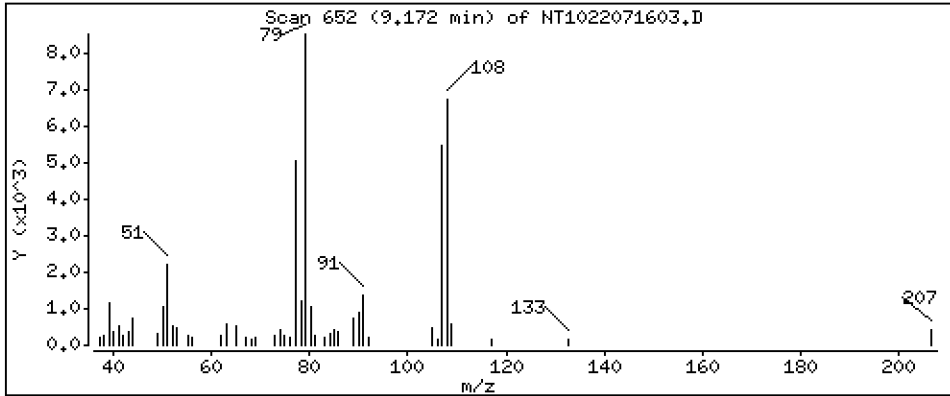
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,2039 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

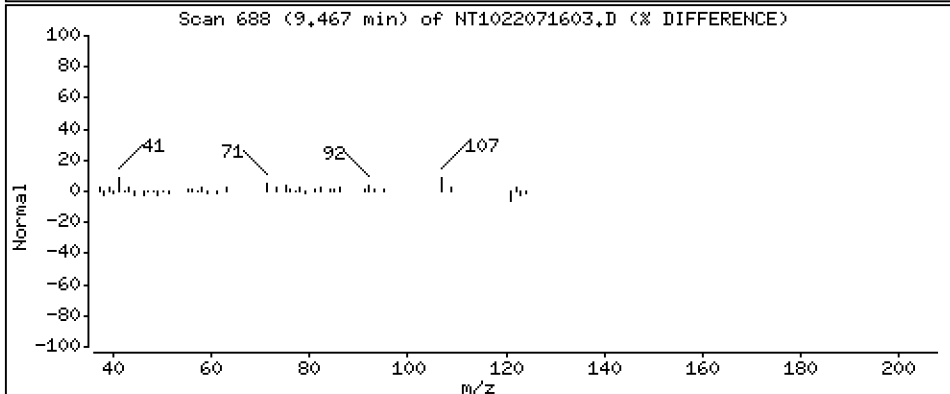
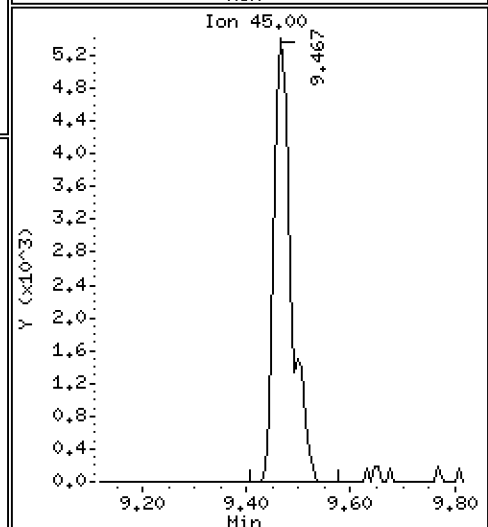
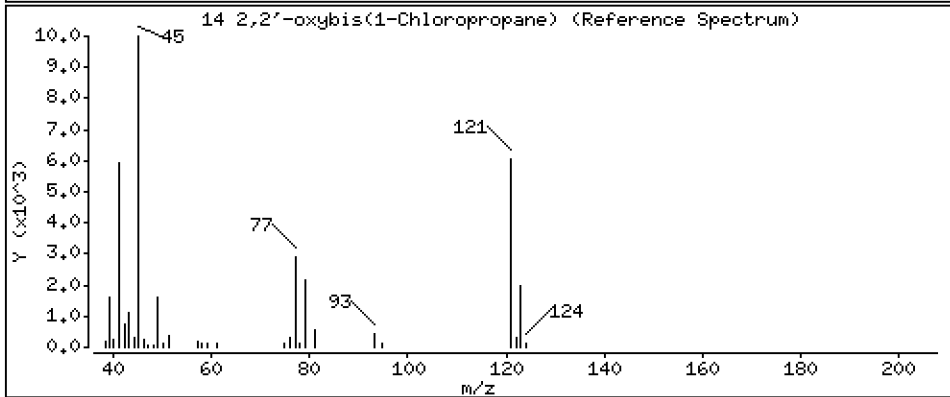
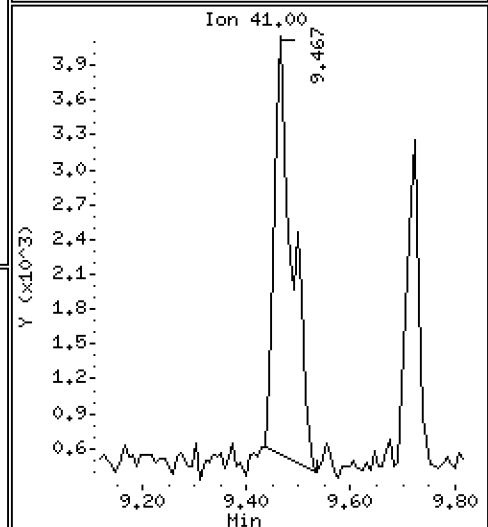
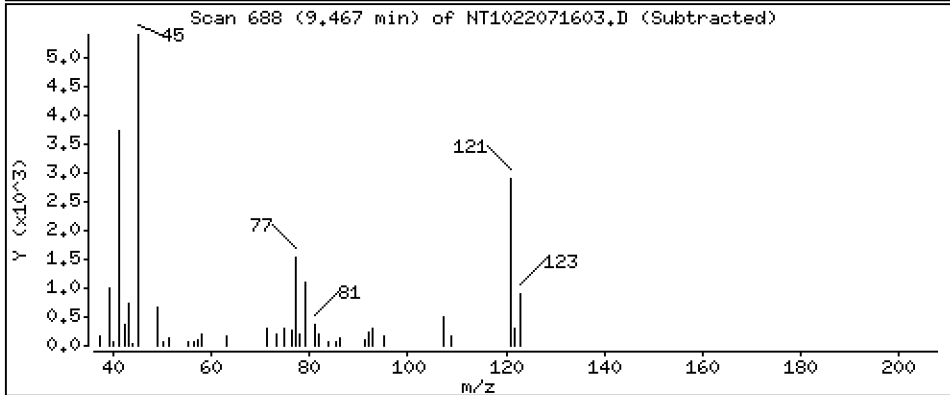
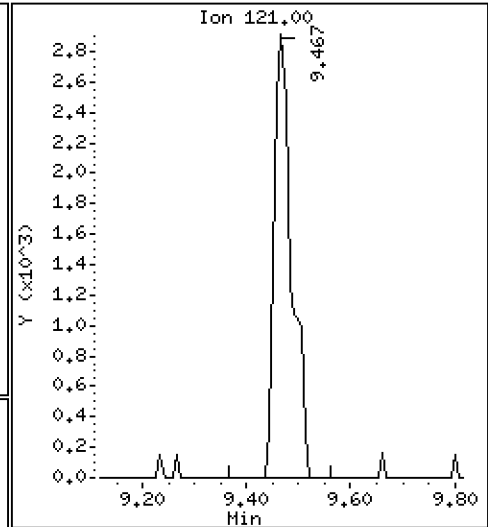
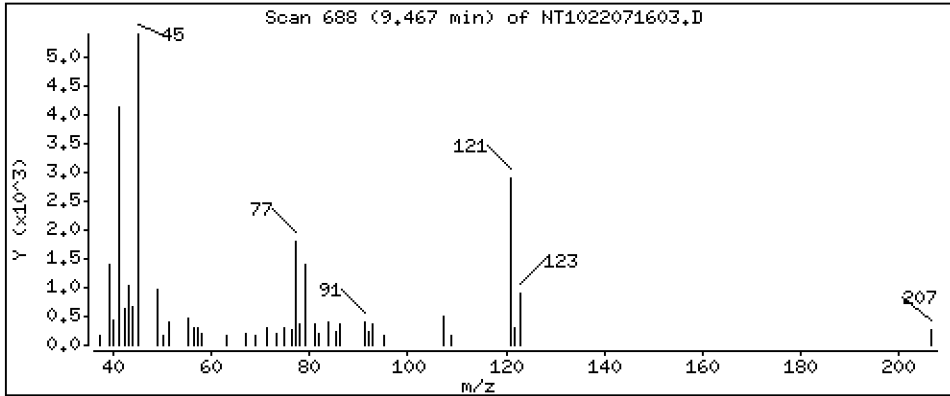
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2548 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

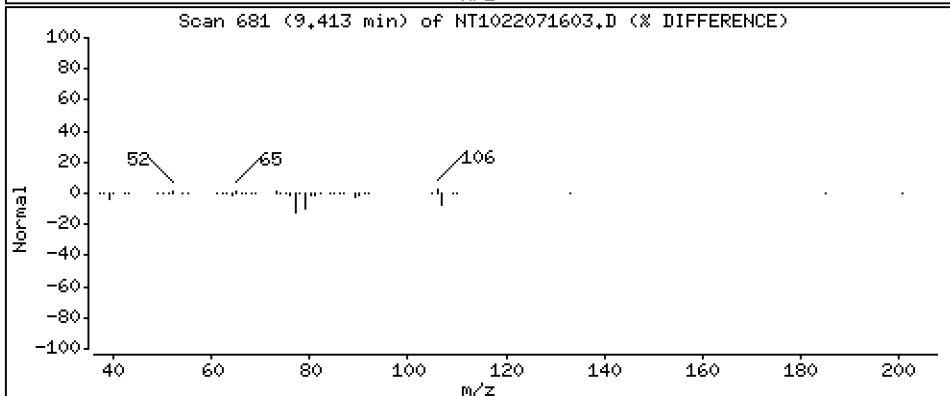
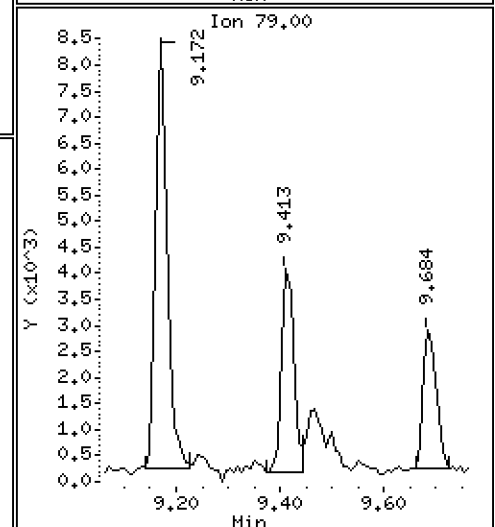
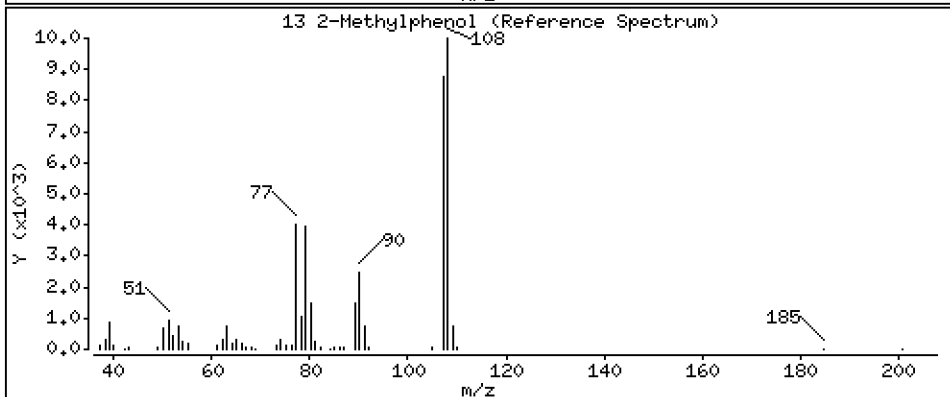
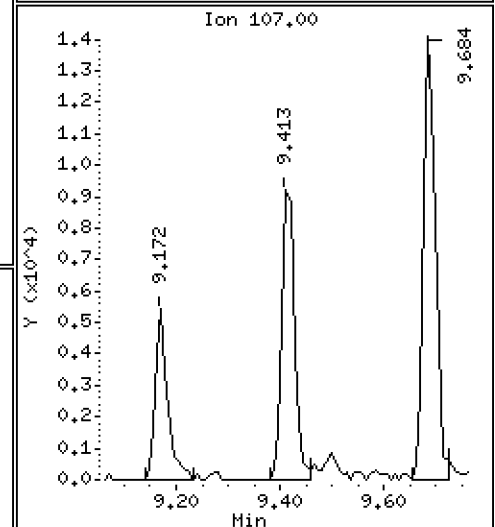
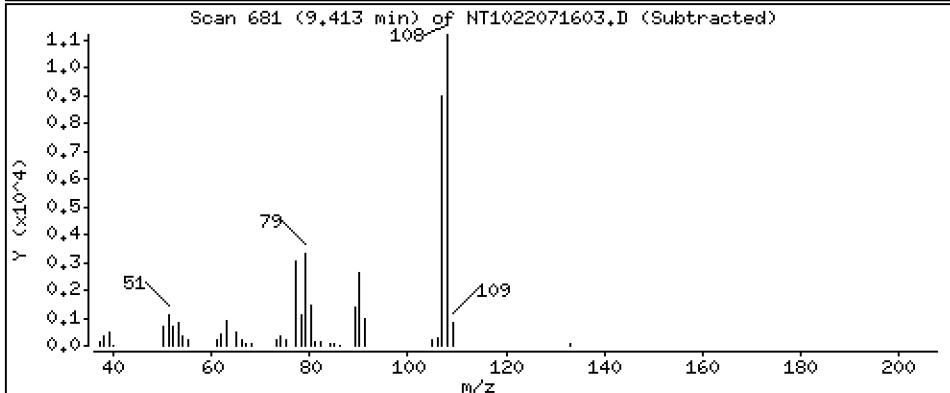
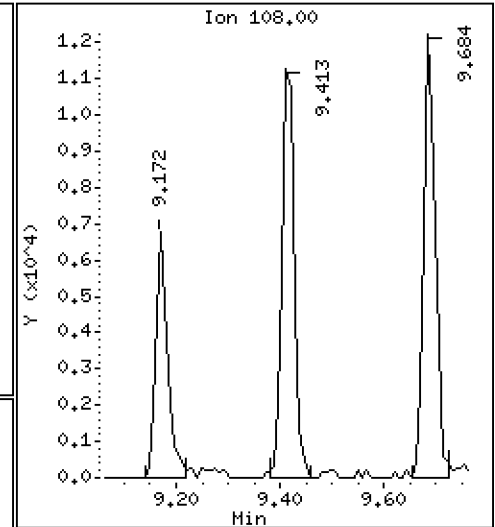
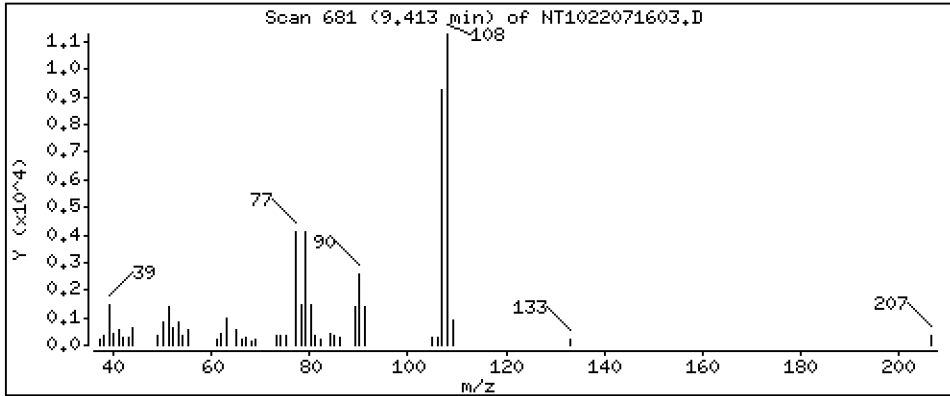
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1833 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

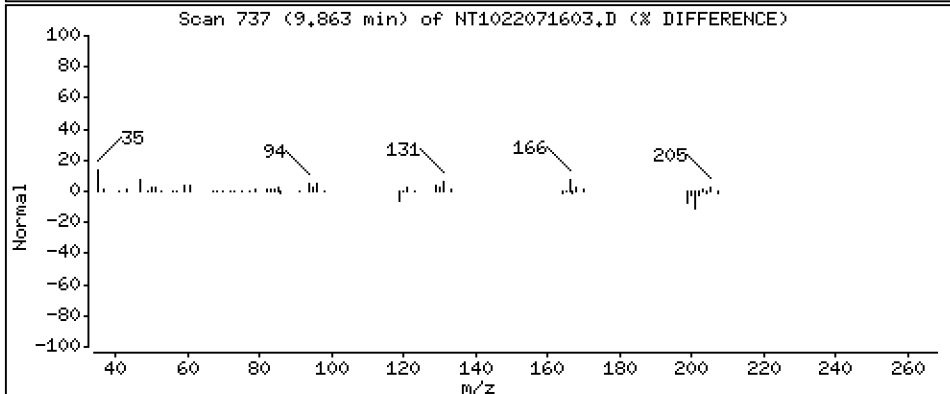
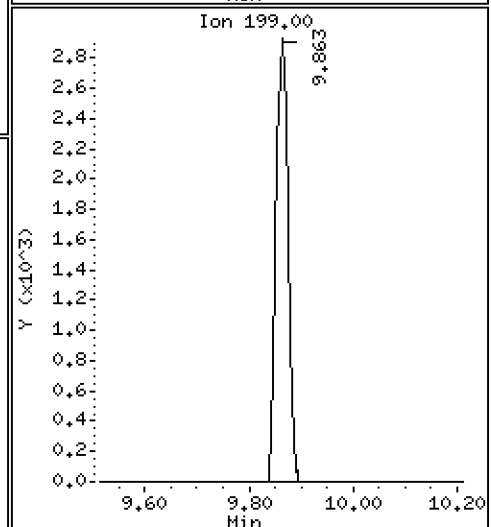
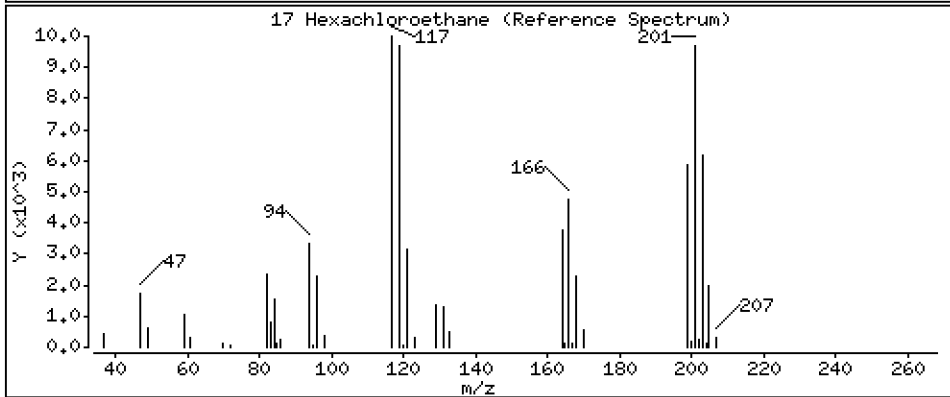
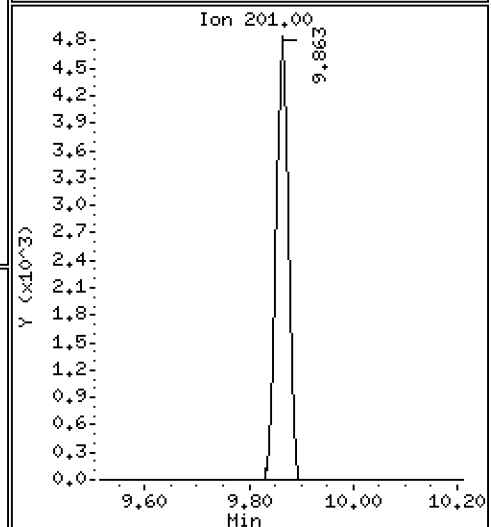
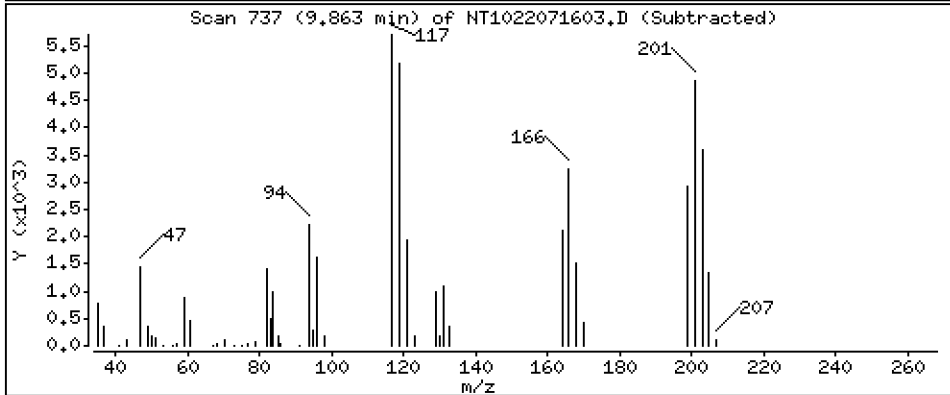
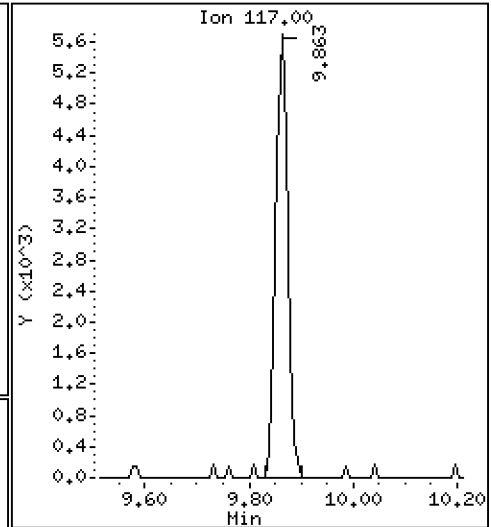
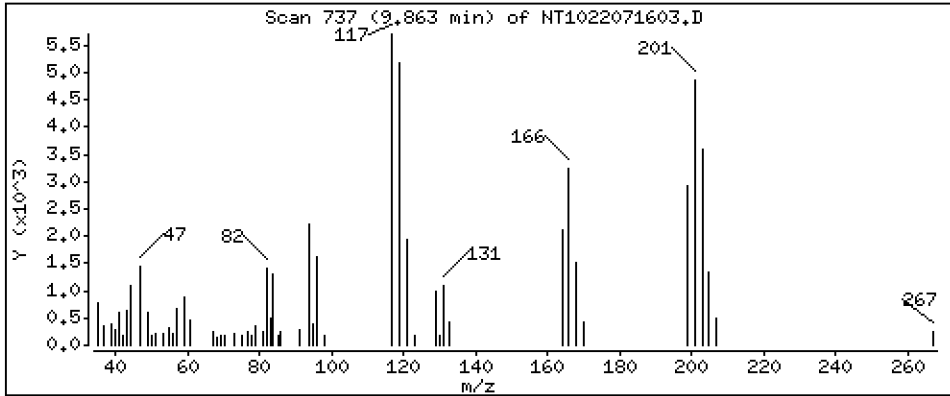
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1867 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

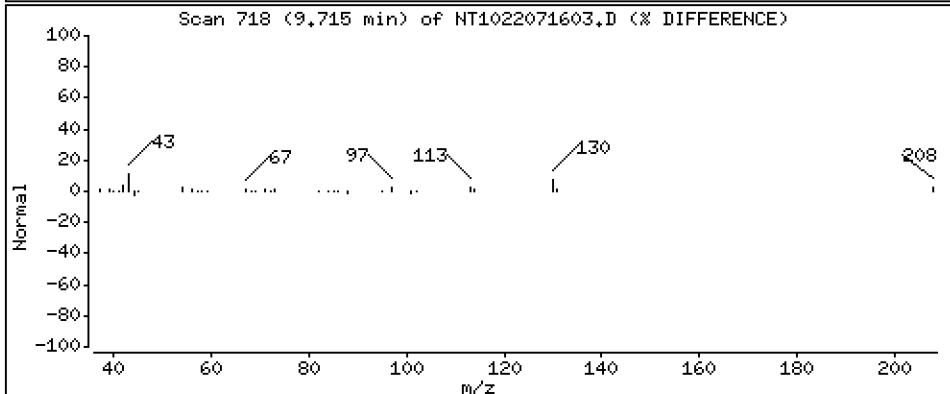
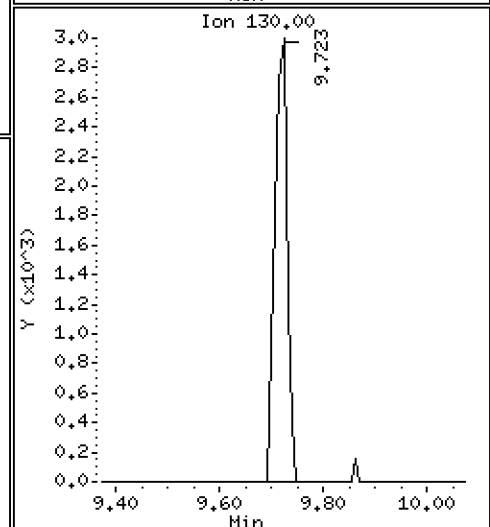
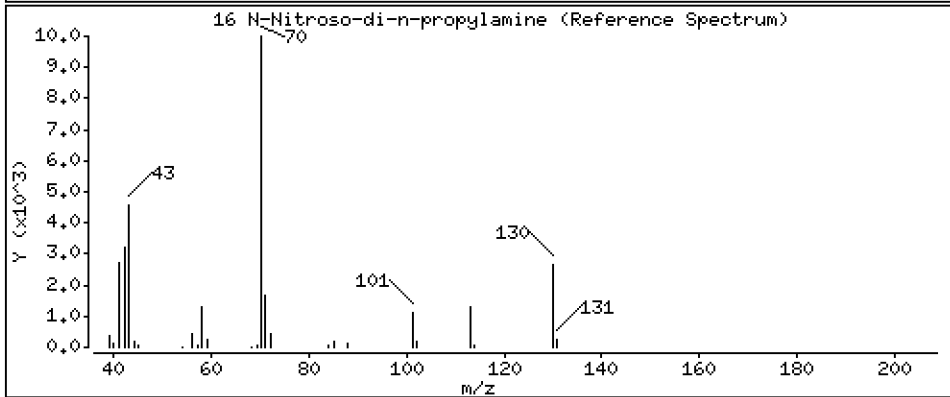
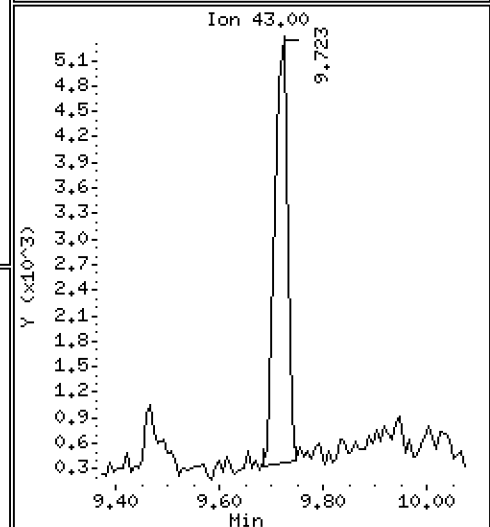
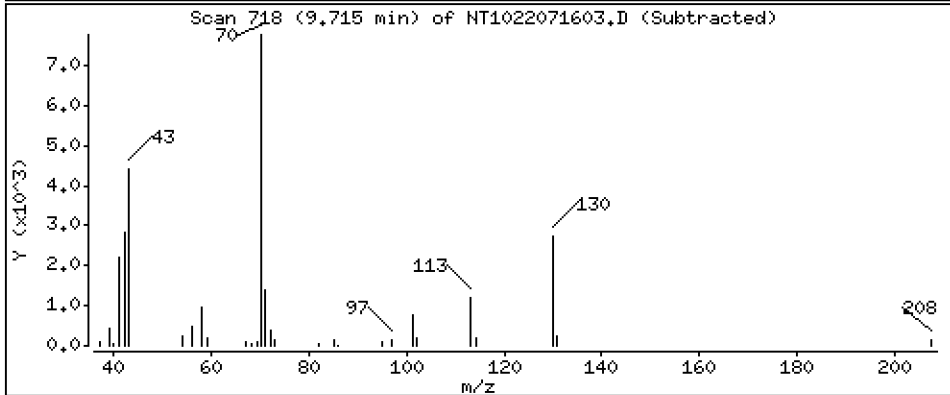
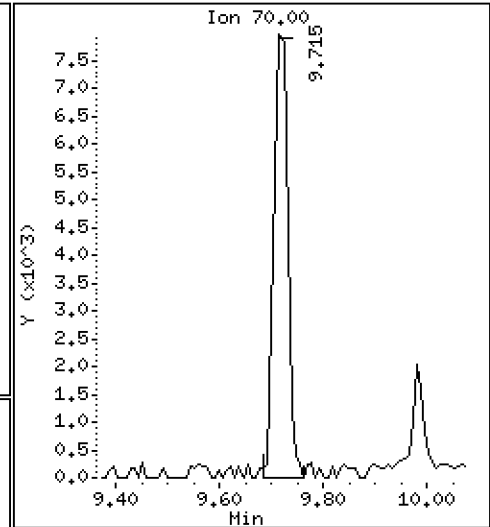
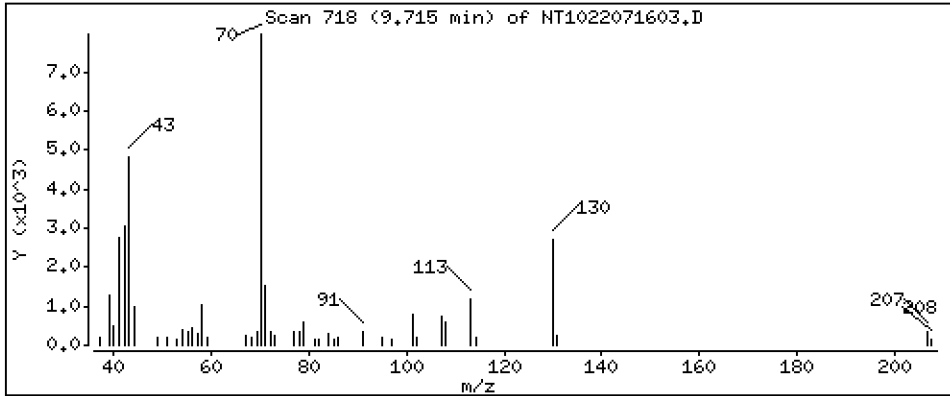
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.1999 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

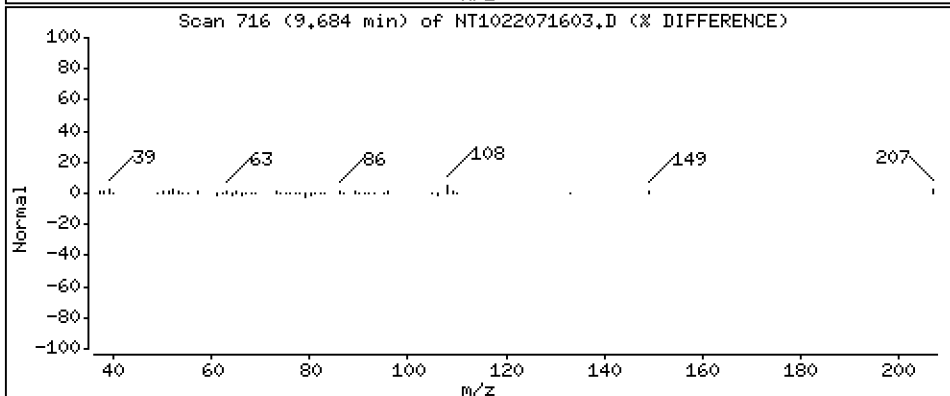
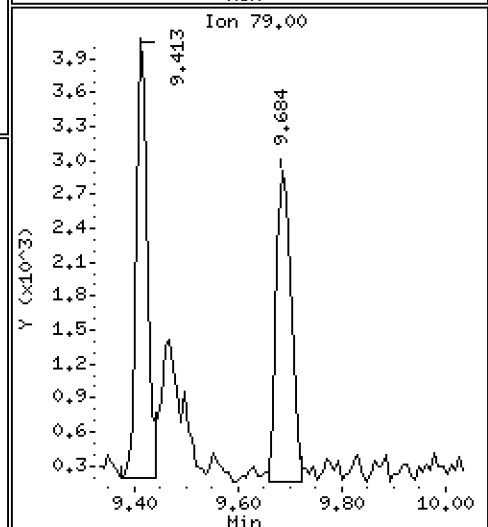
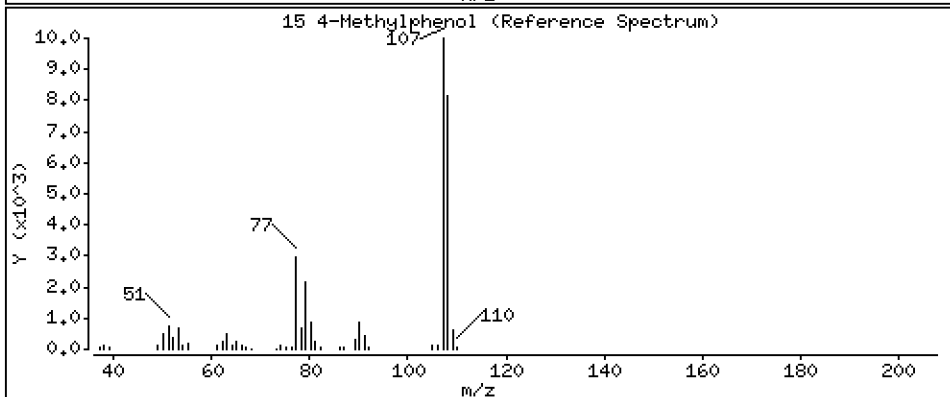
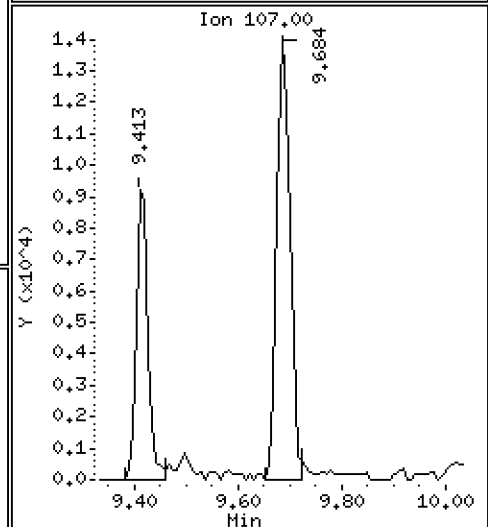
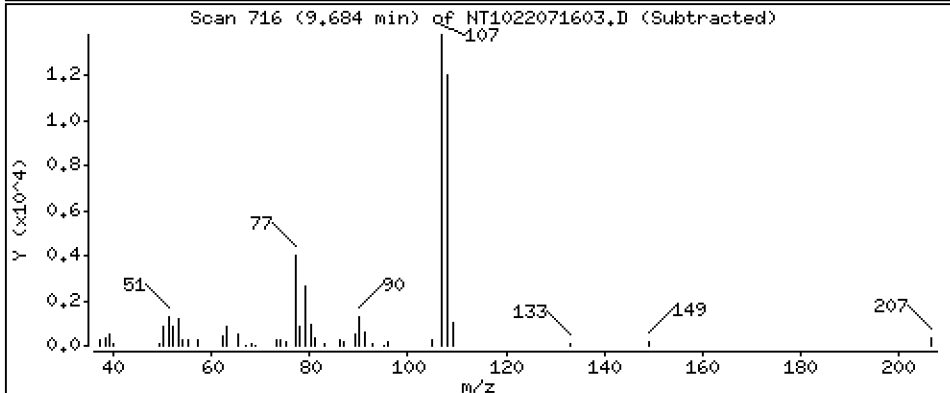
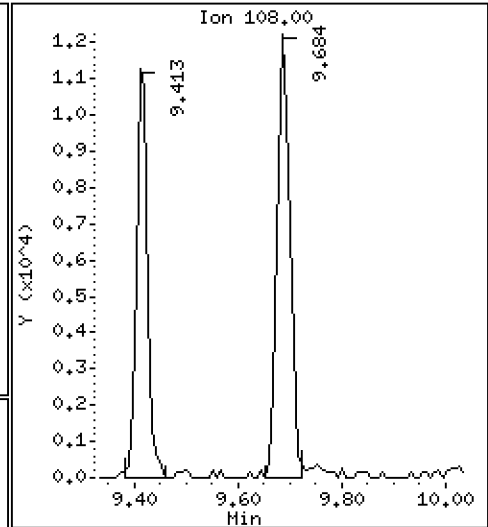
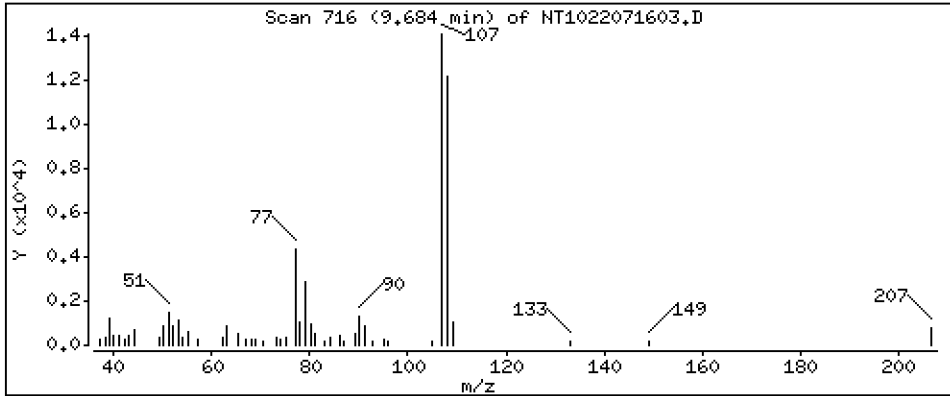
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.1945 ug/mL

15 4-Methylphenol



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

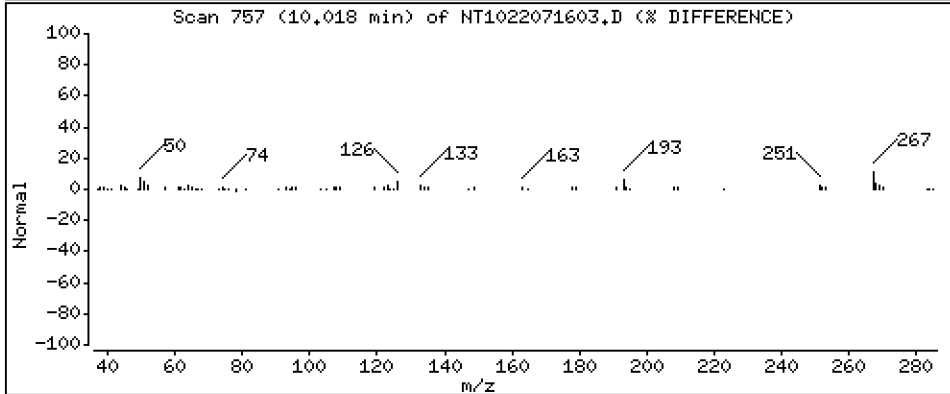
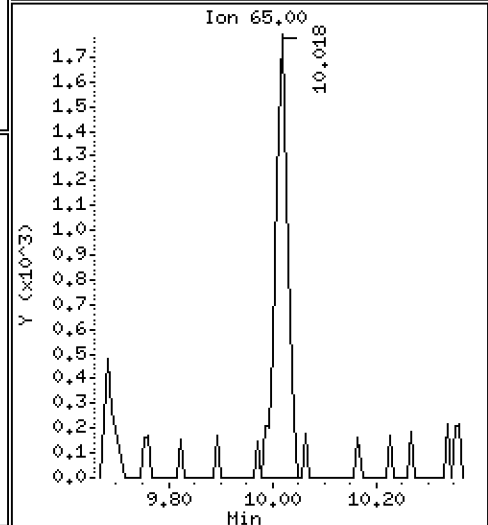
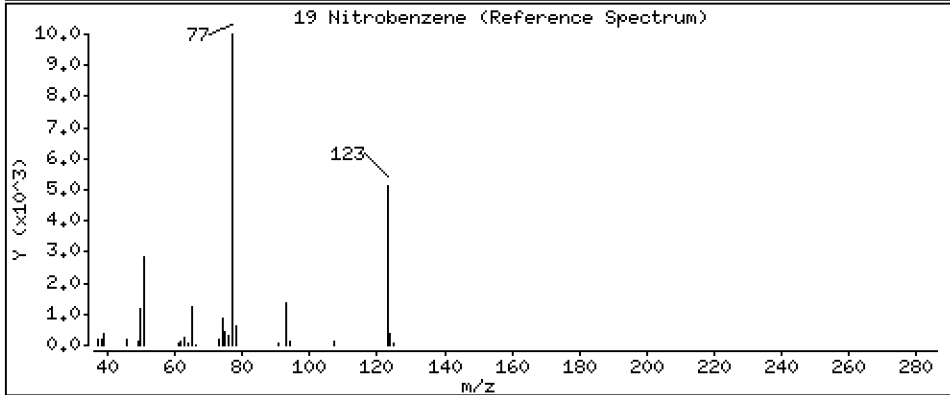
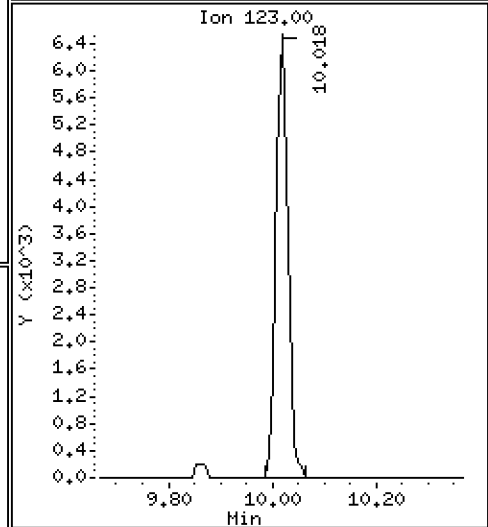
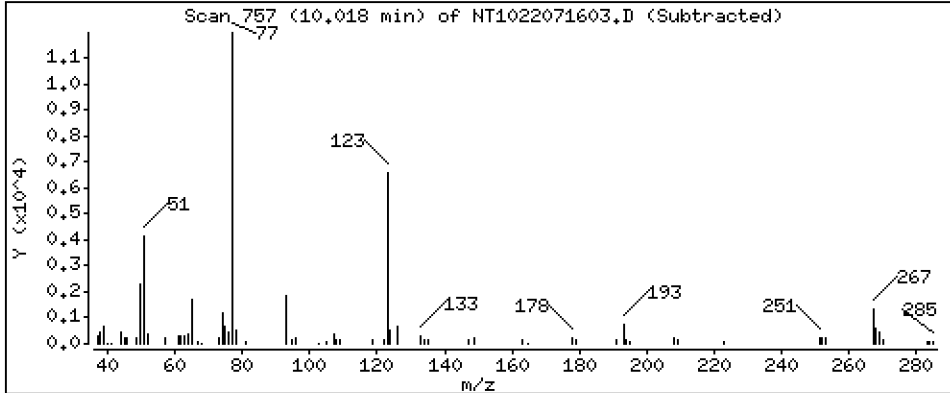
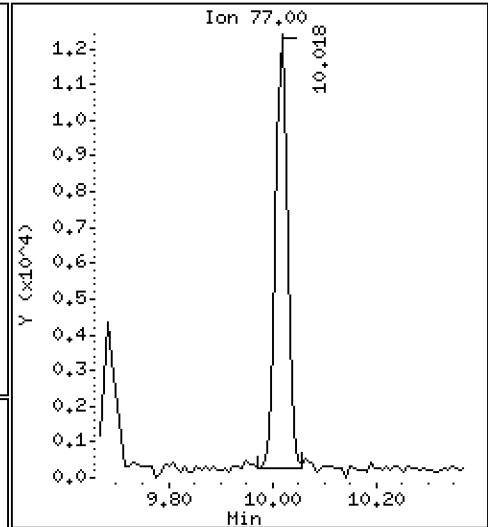
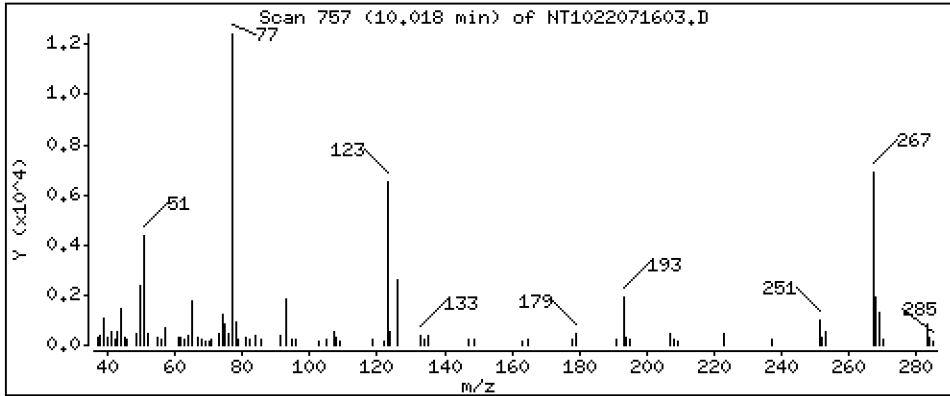
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,1729 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

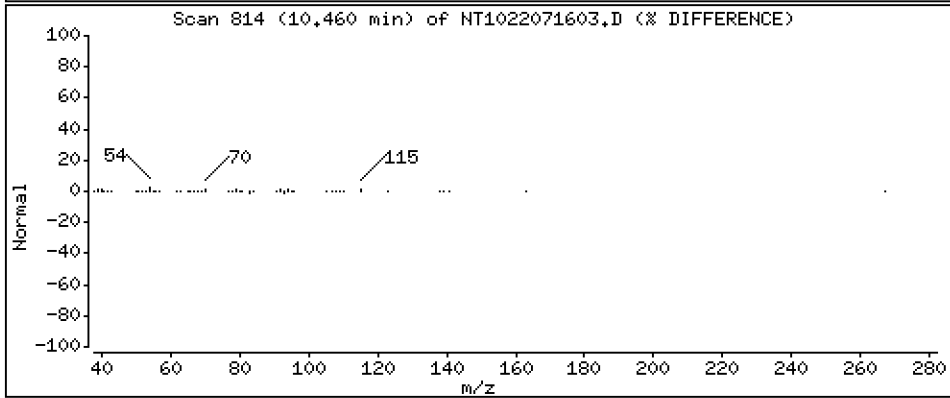
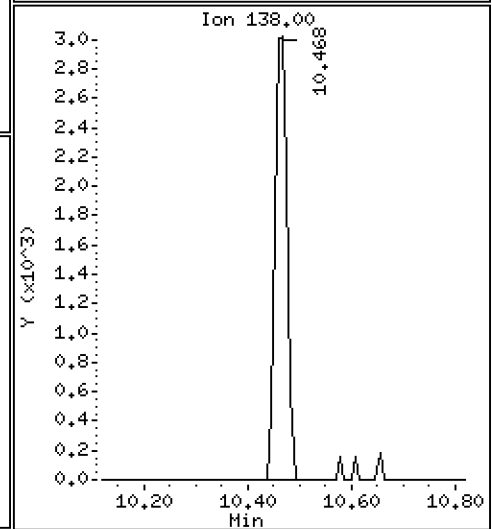
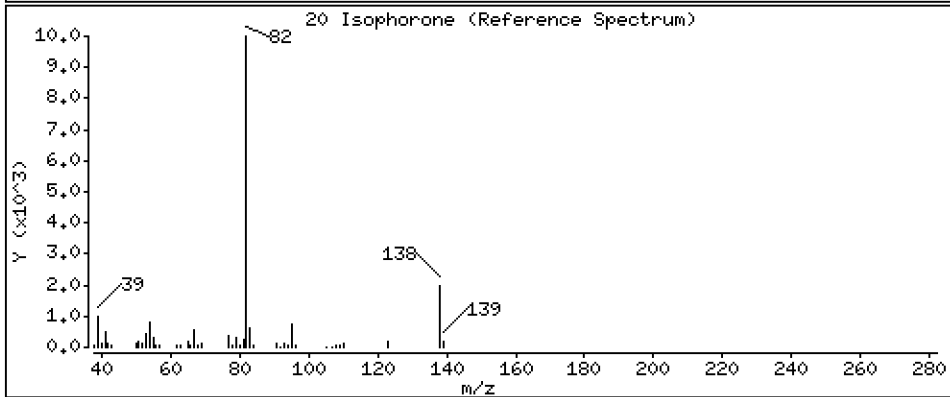
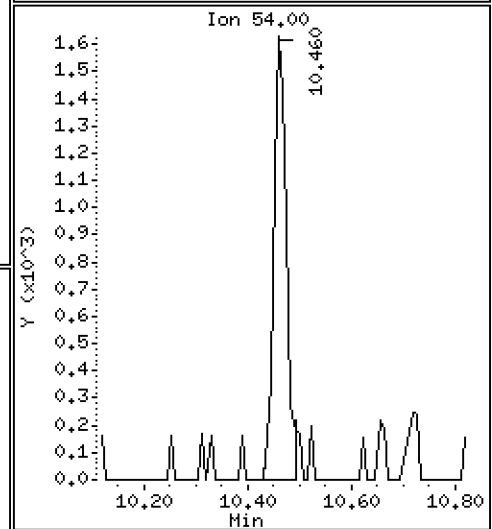
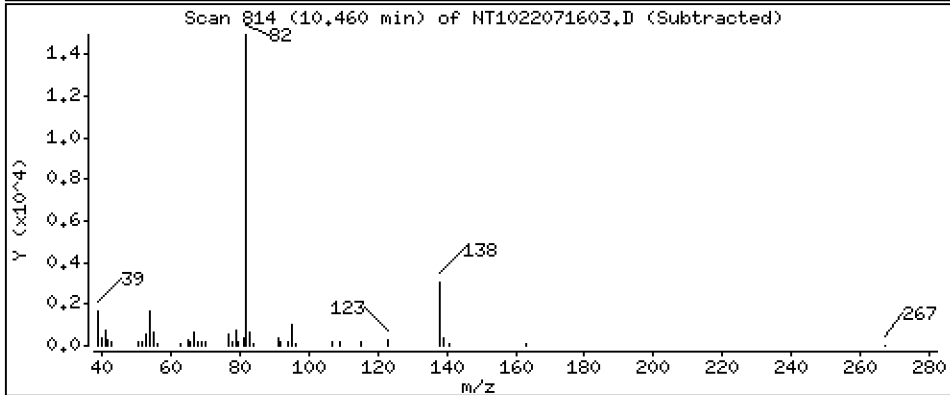
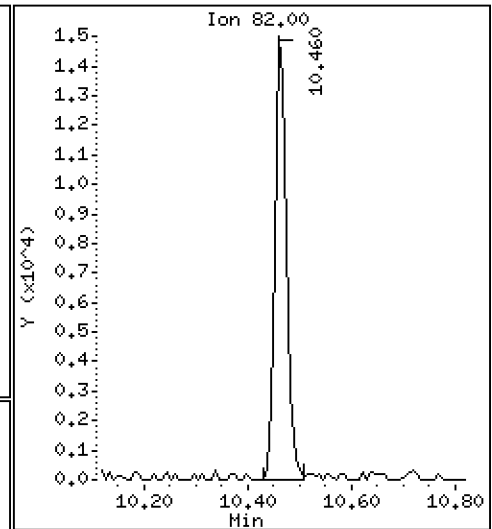
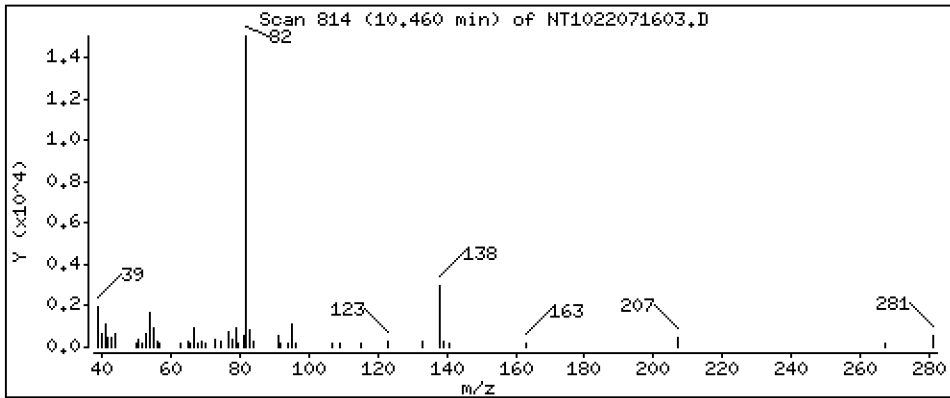
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,1557 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

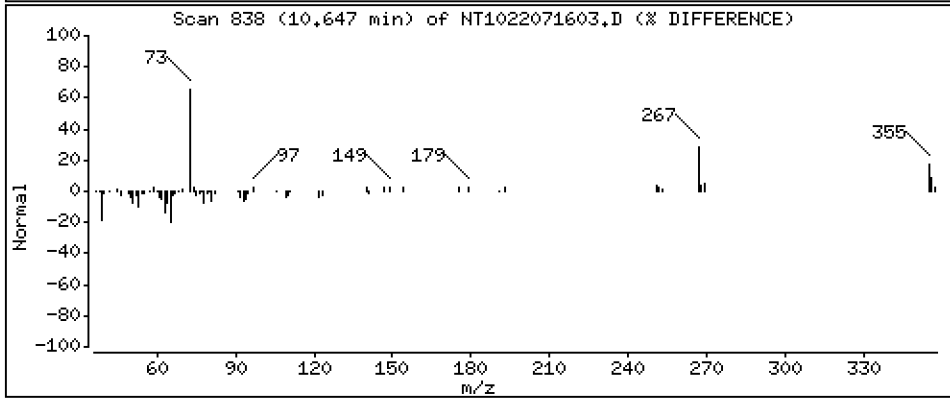
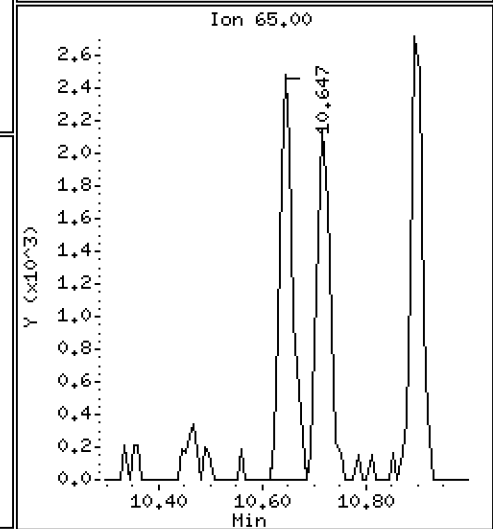
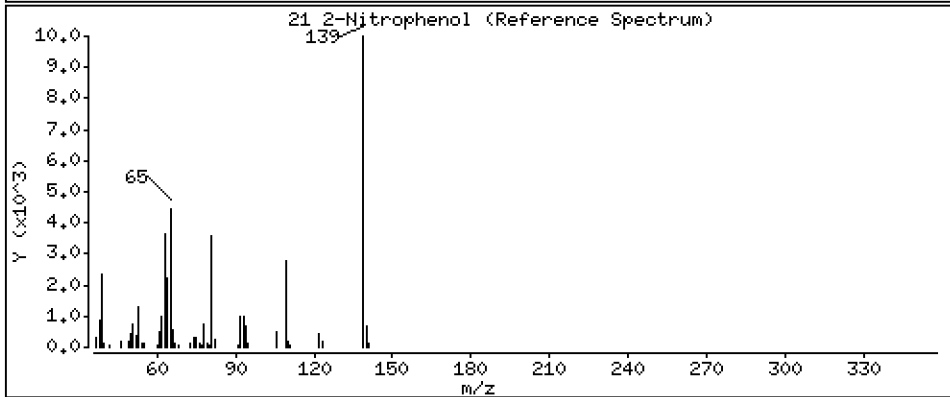
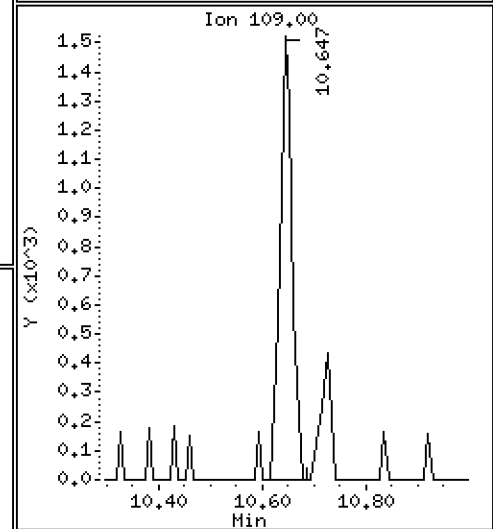
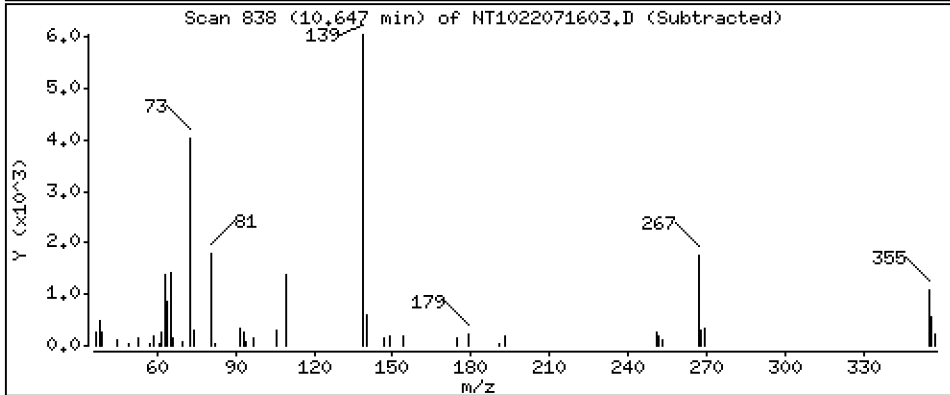
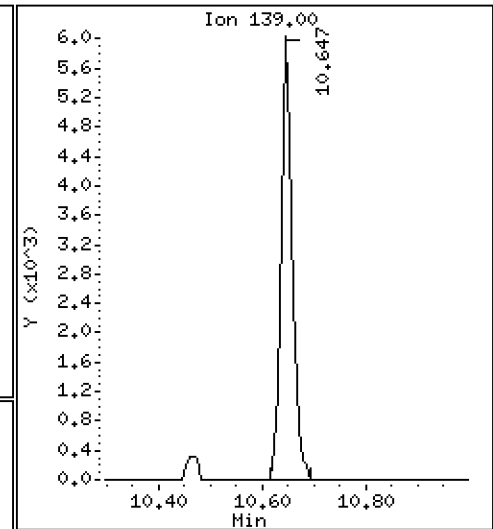
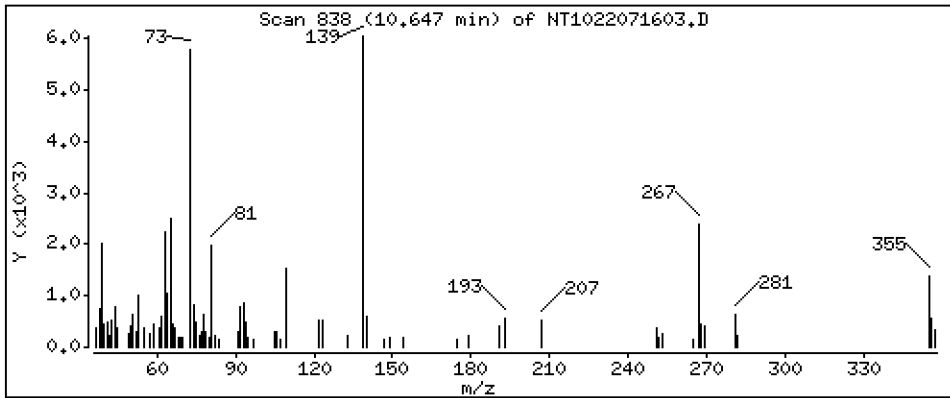
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1351 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

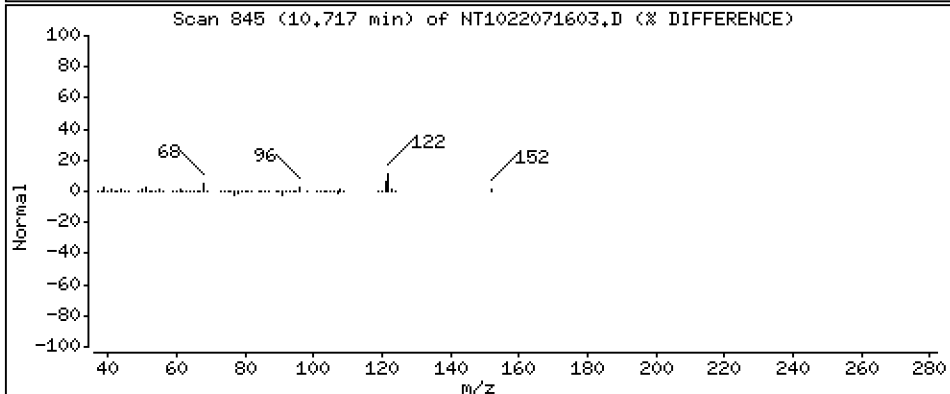
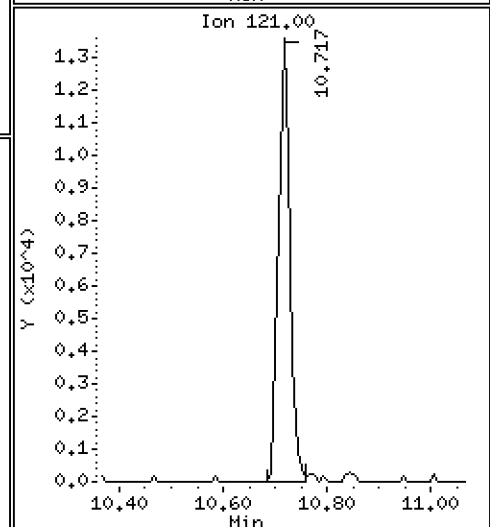
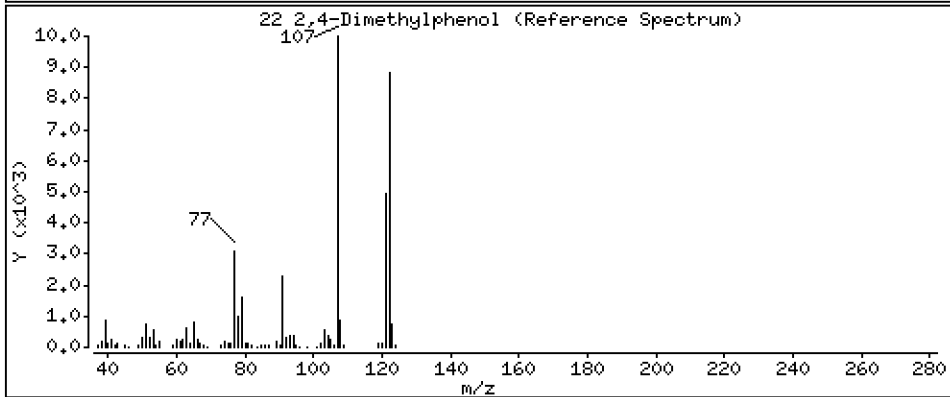
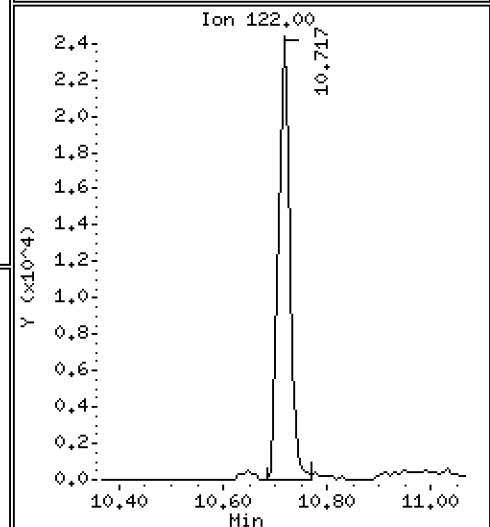
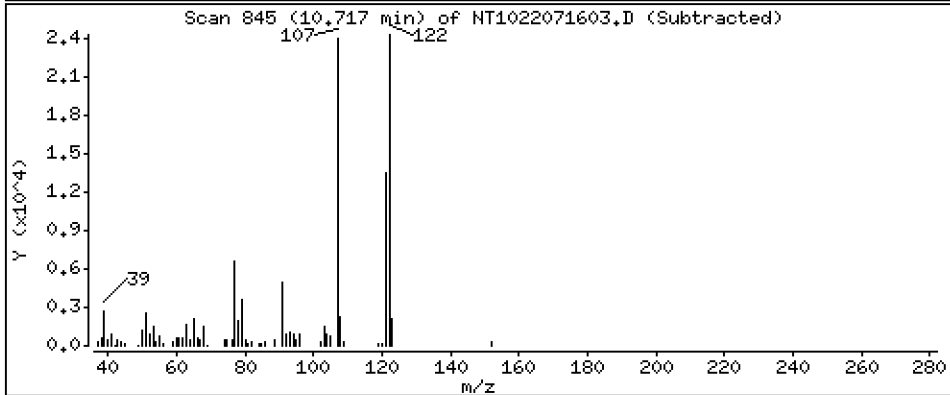
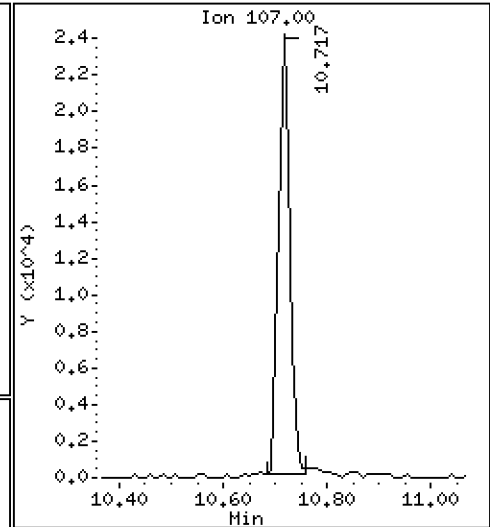
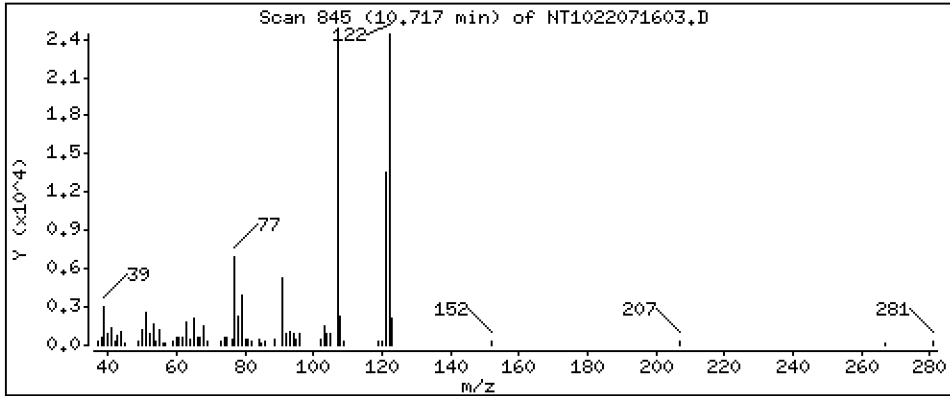
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,3915 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

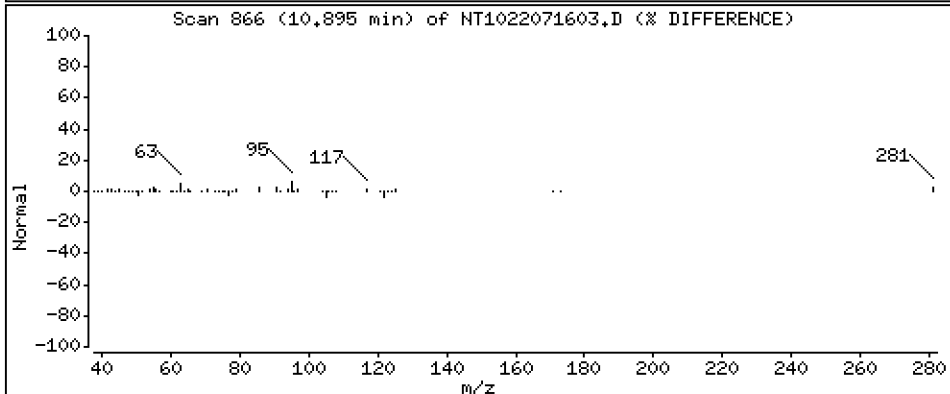
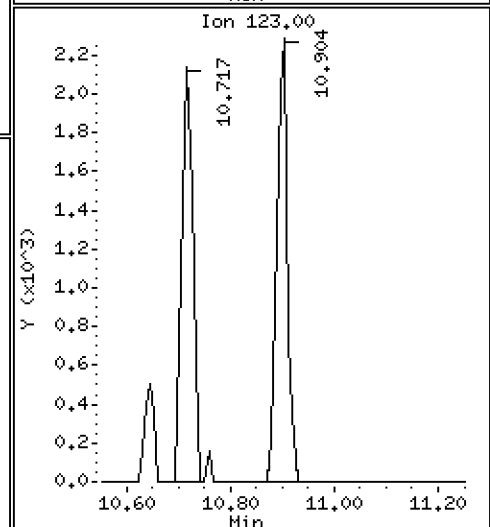
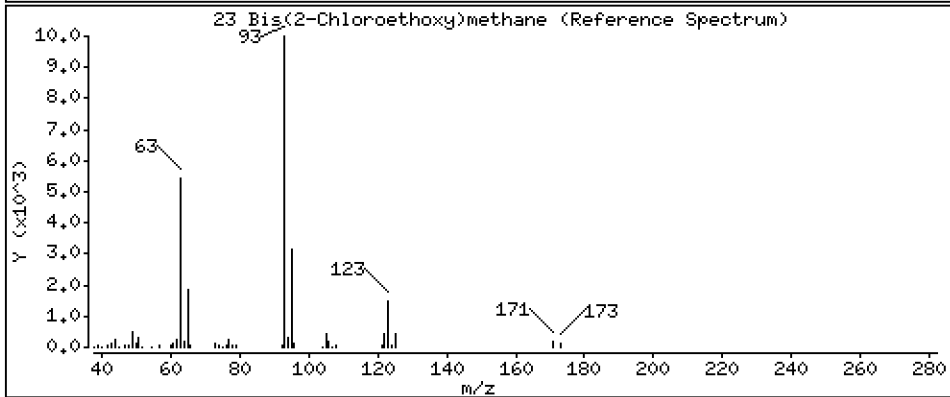
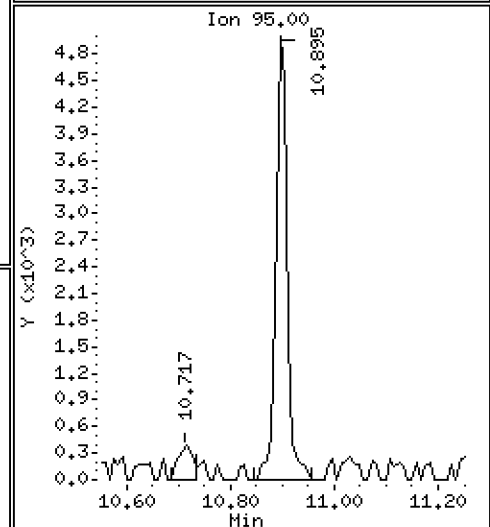
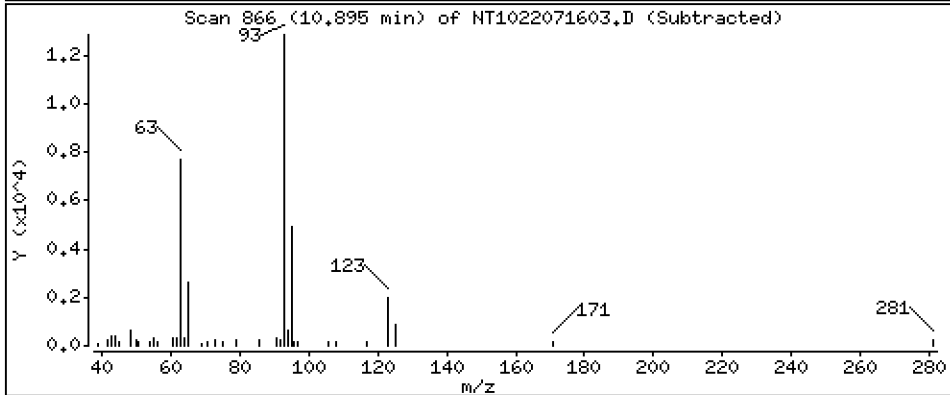
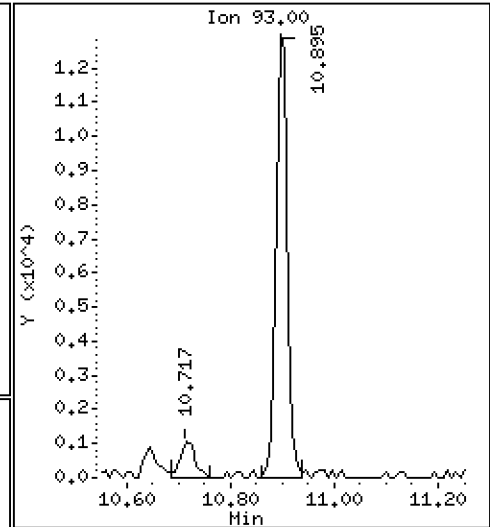
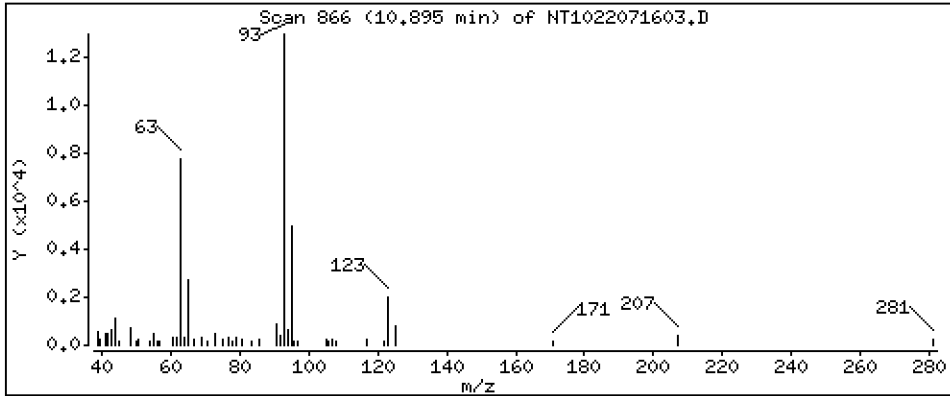
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,2151 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

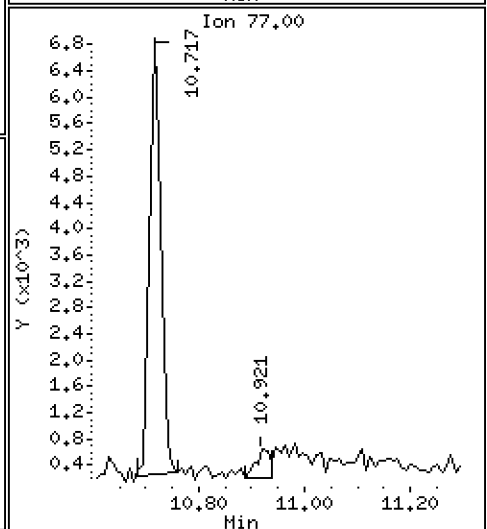
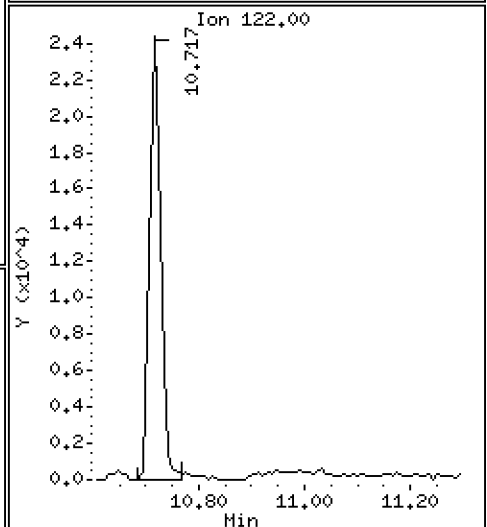
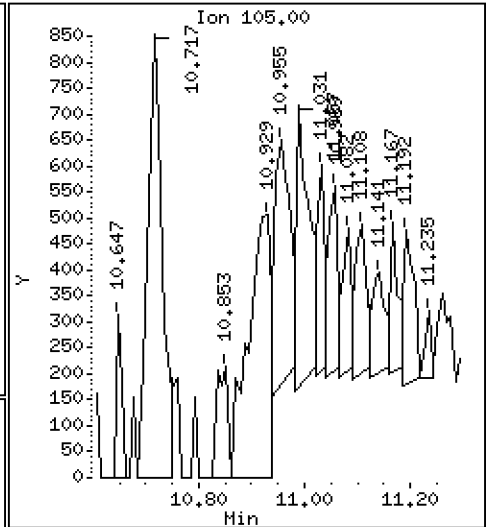
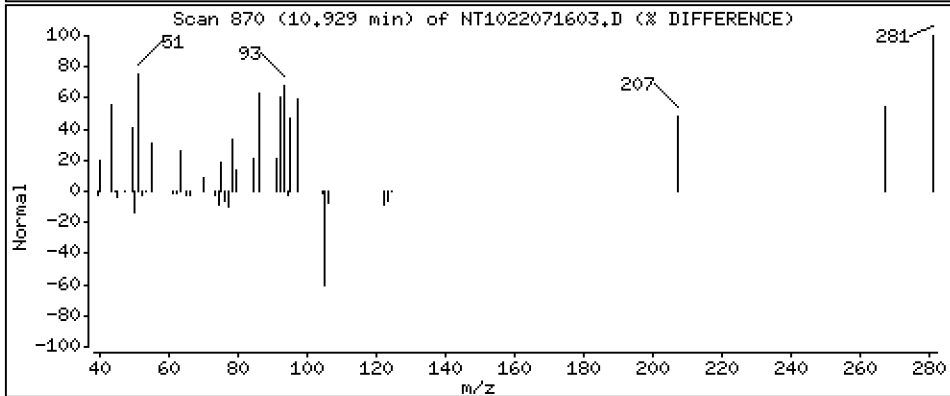
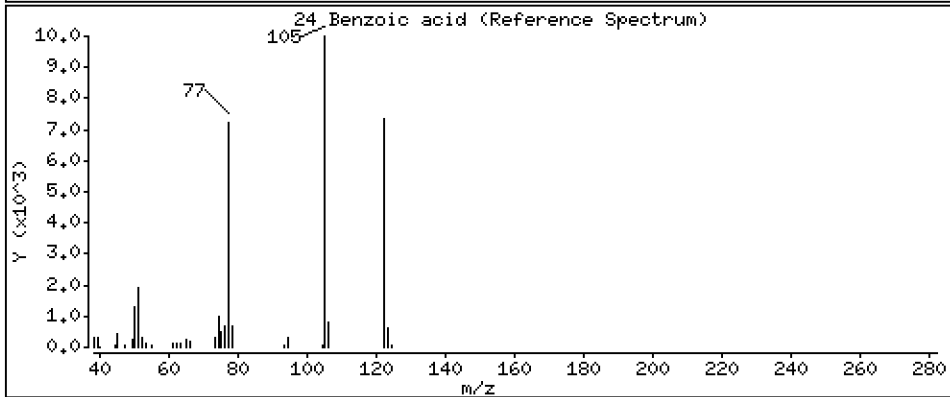
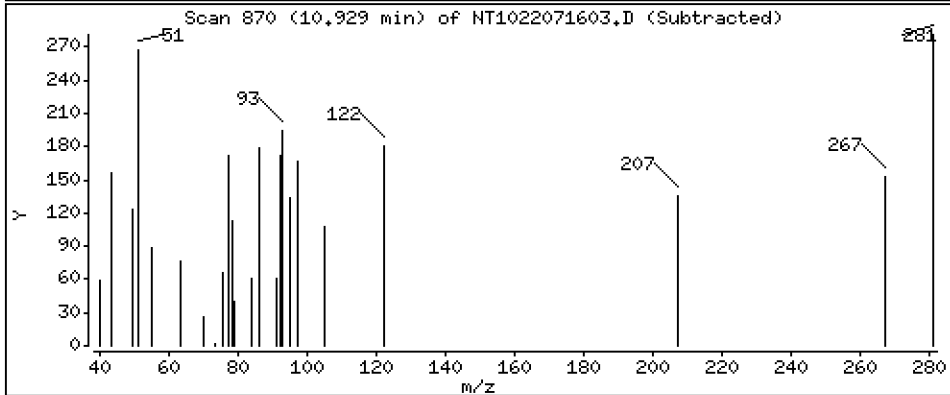
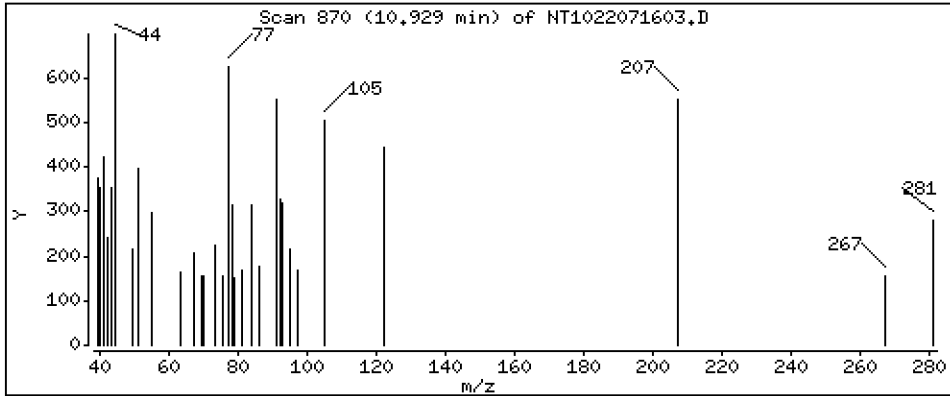
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.03670 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

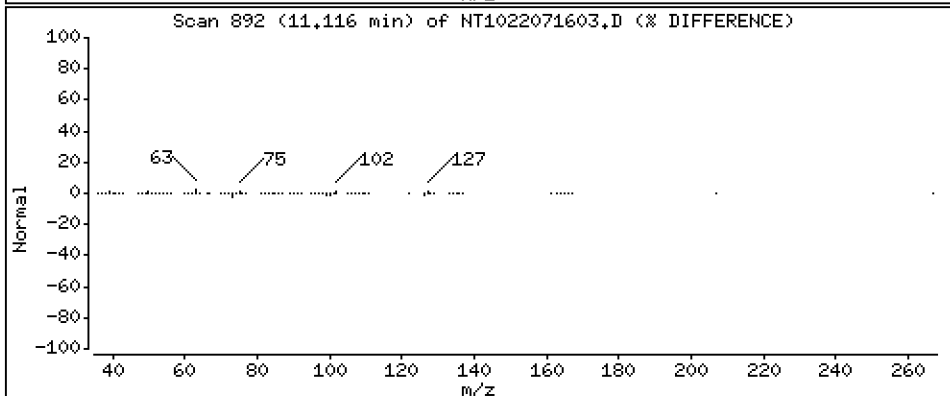
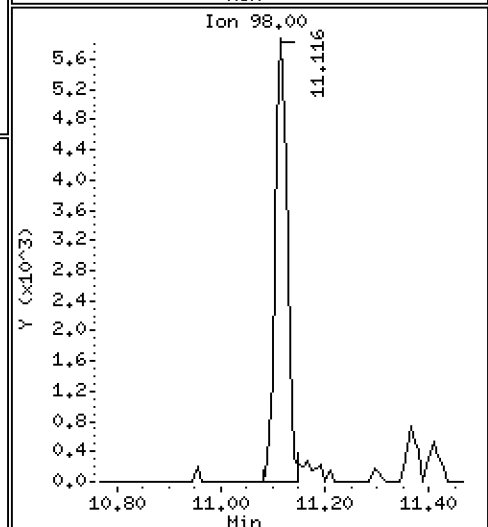
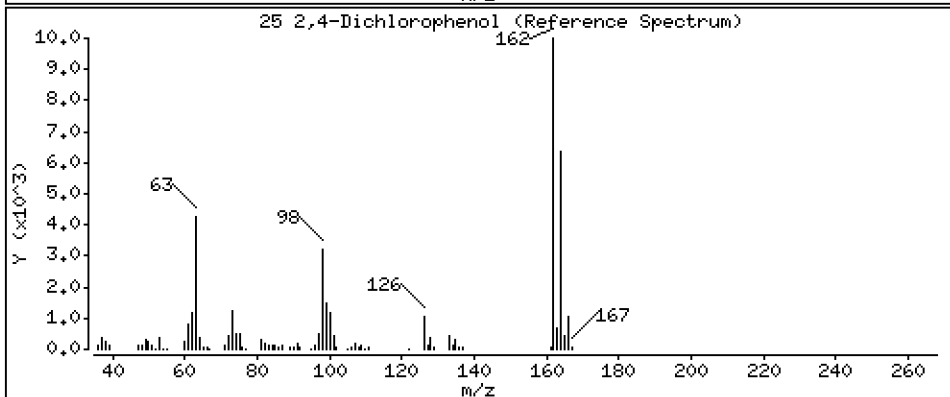
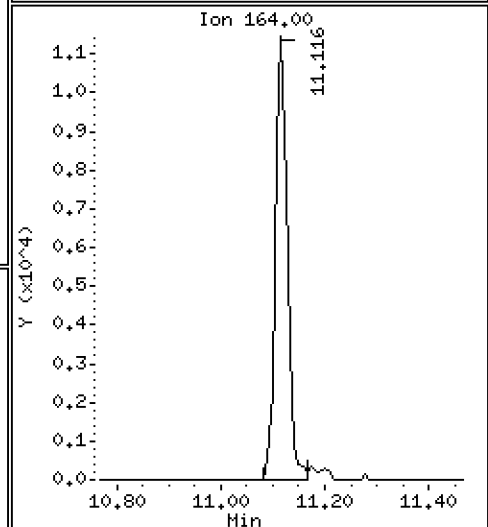
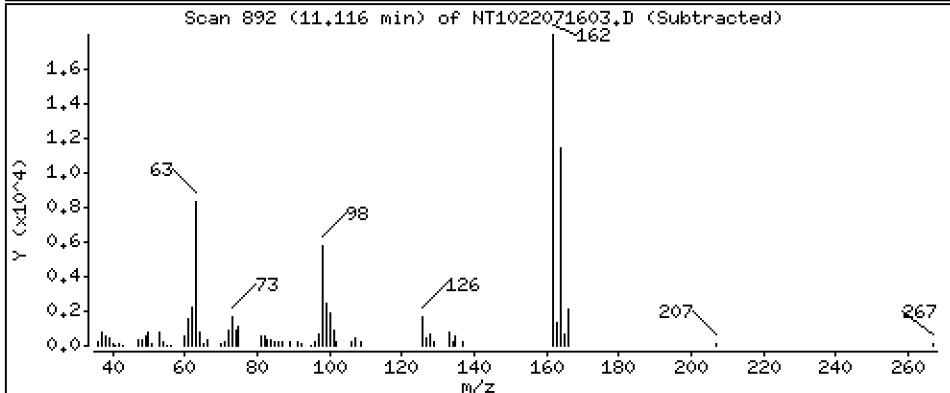
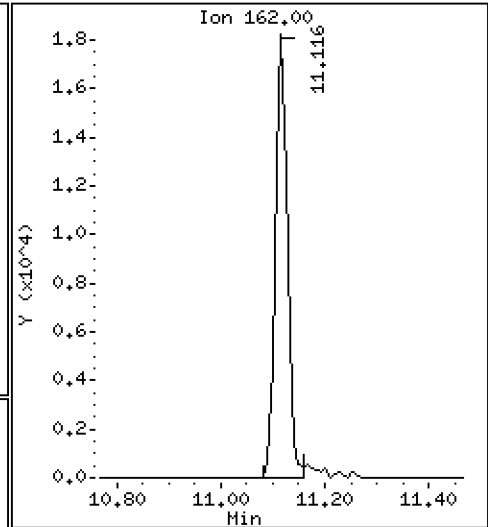
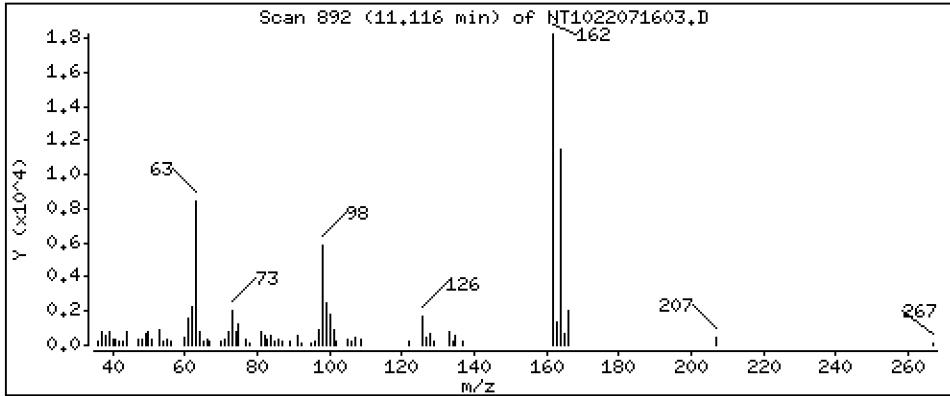
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3508 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

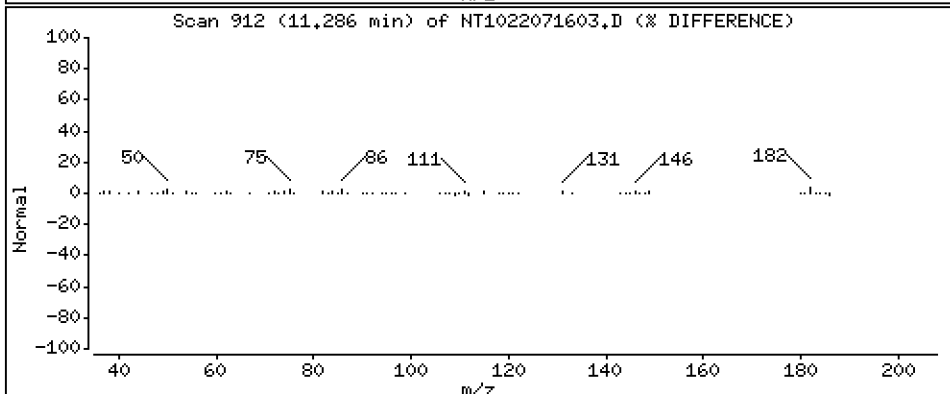
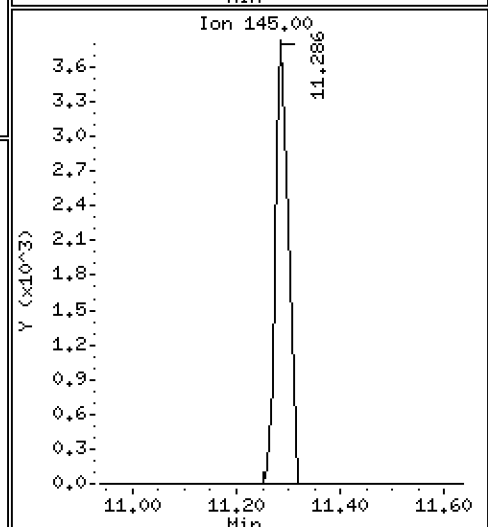
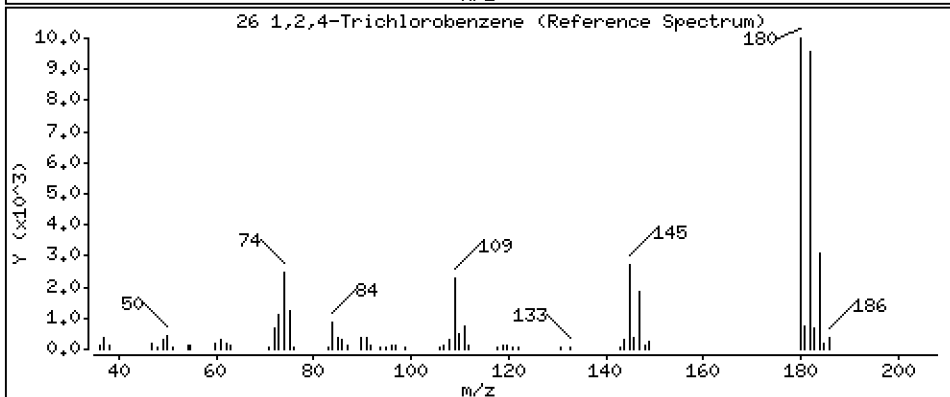
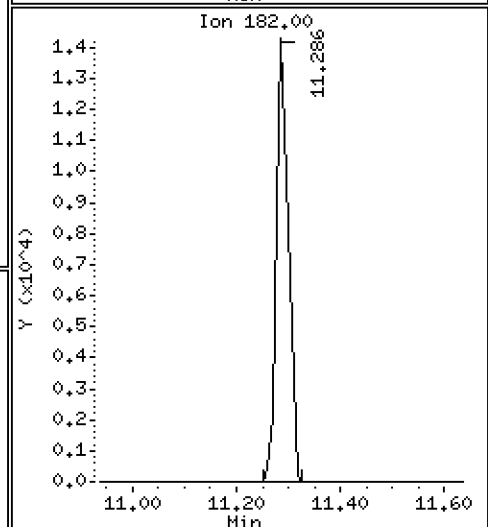
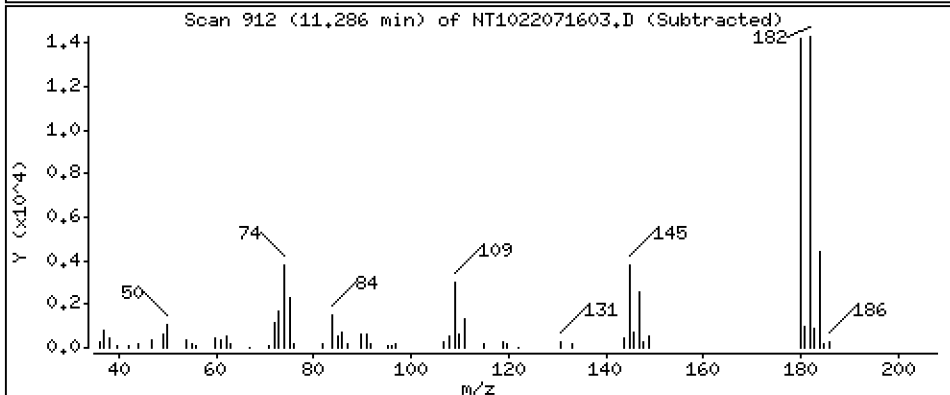
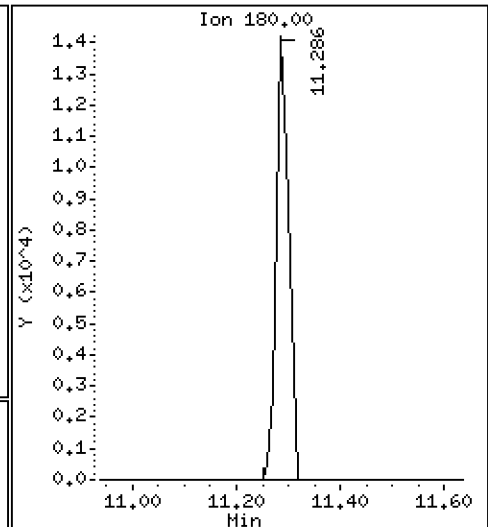
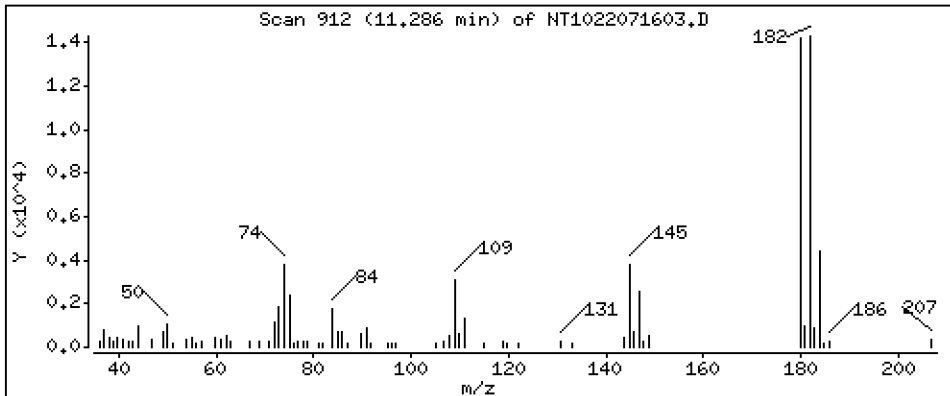
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2744 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

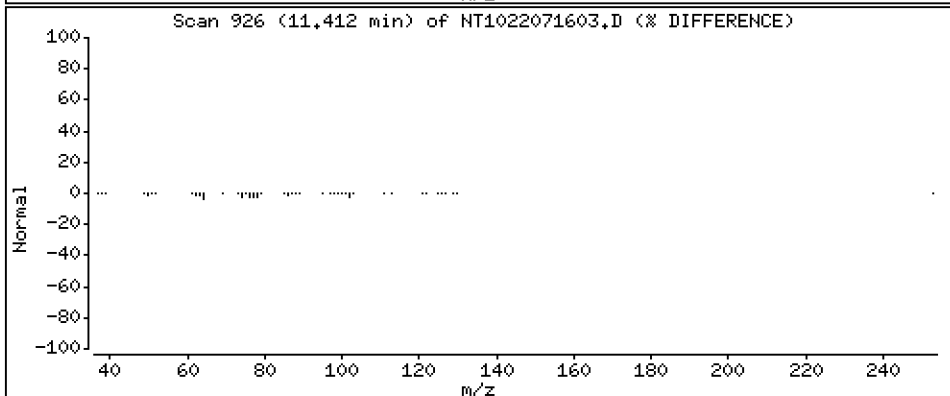
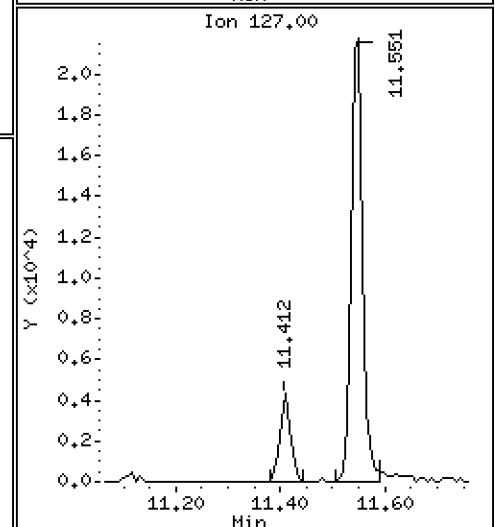
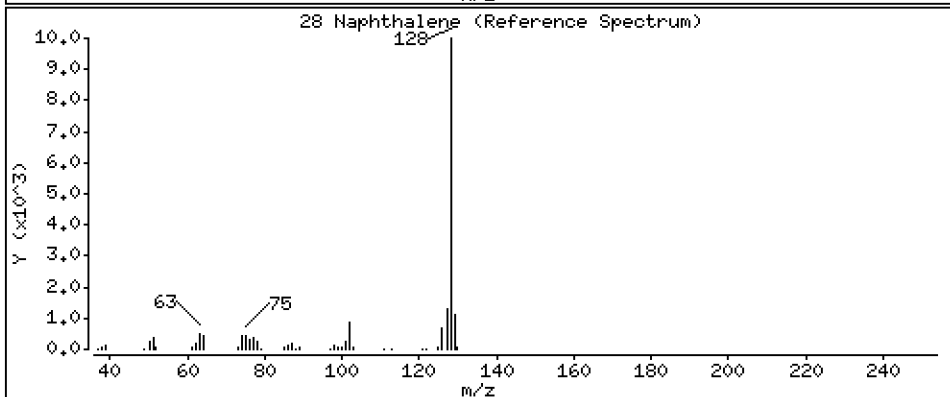
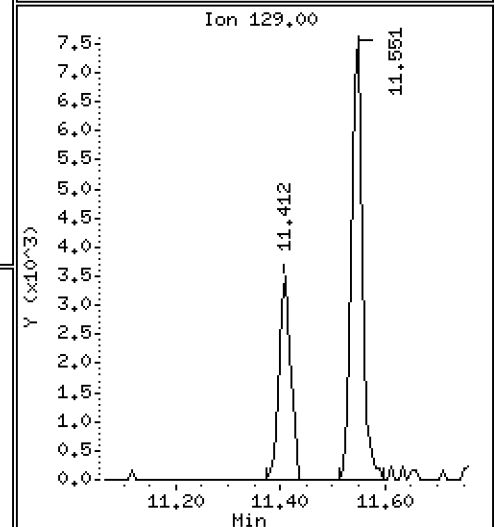
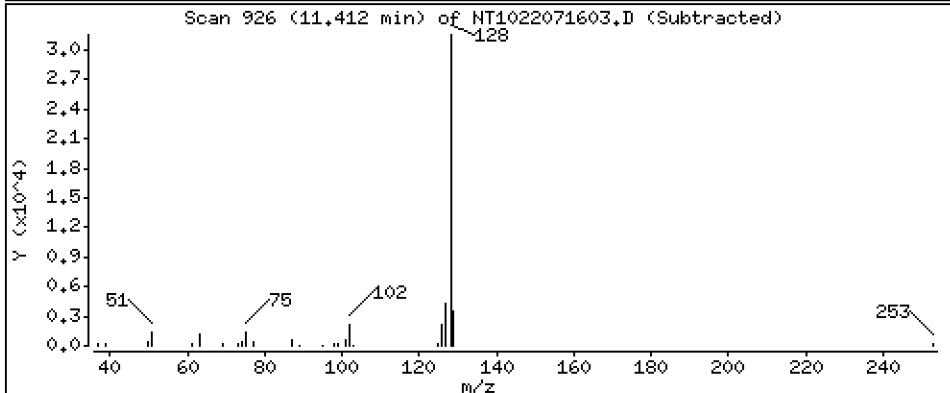
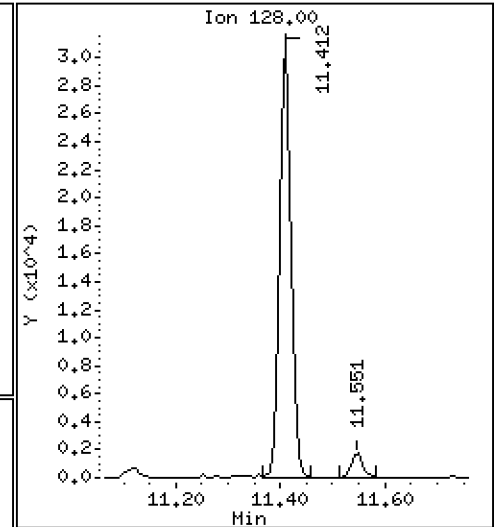
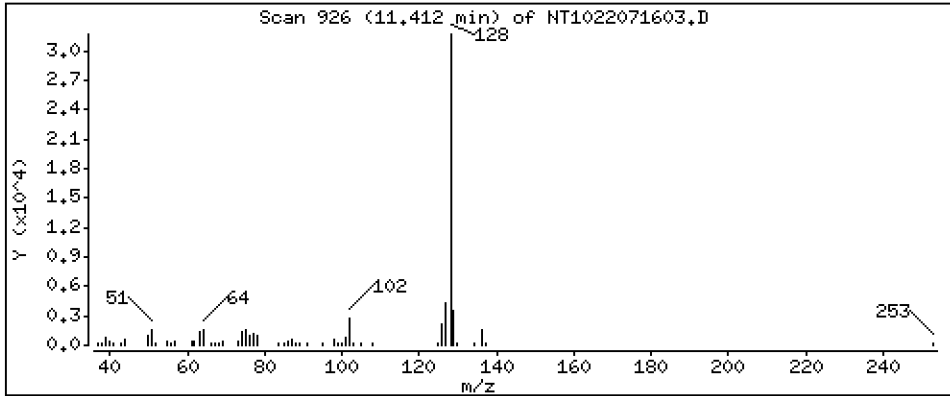
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,1828 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

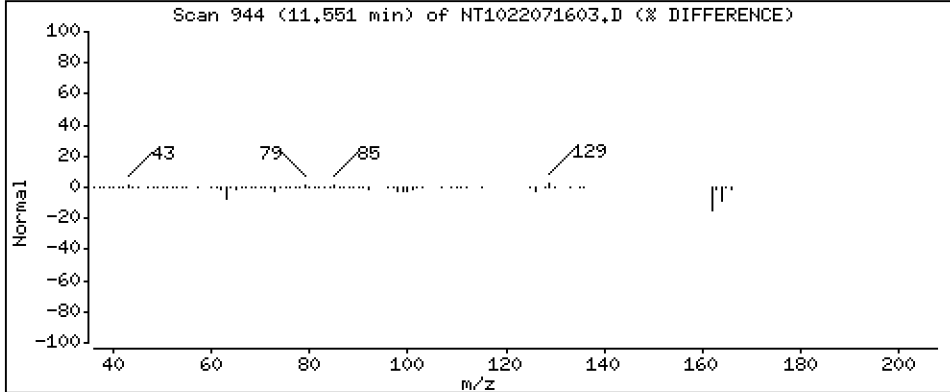
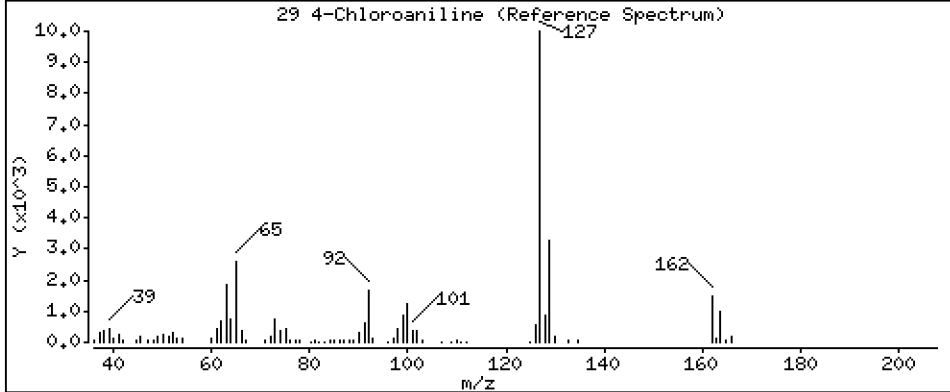
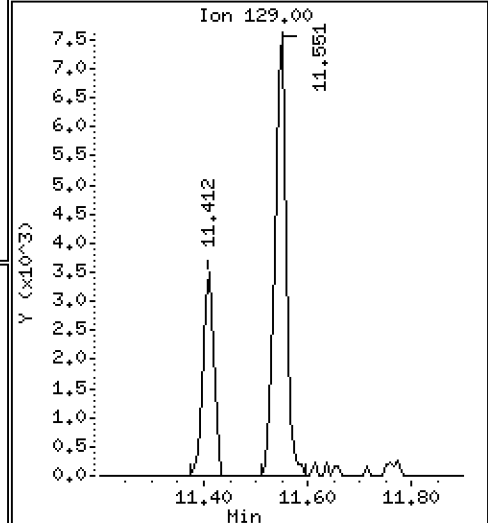
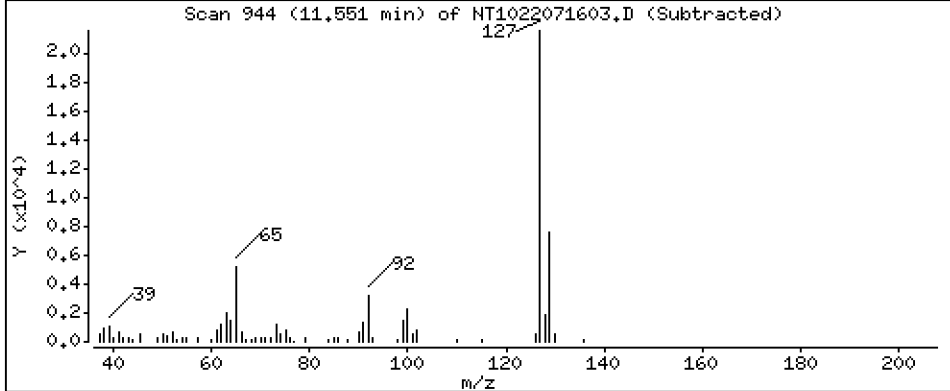
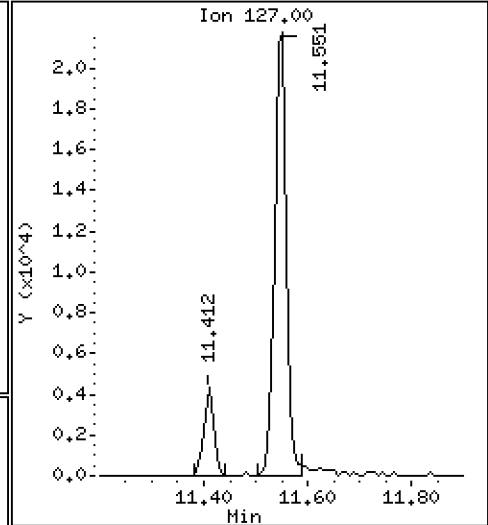
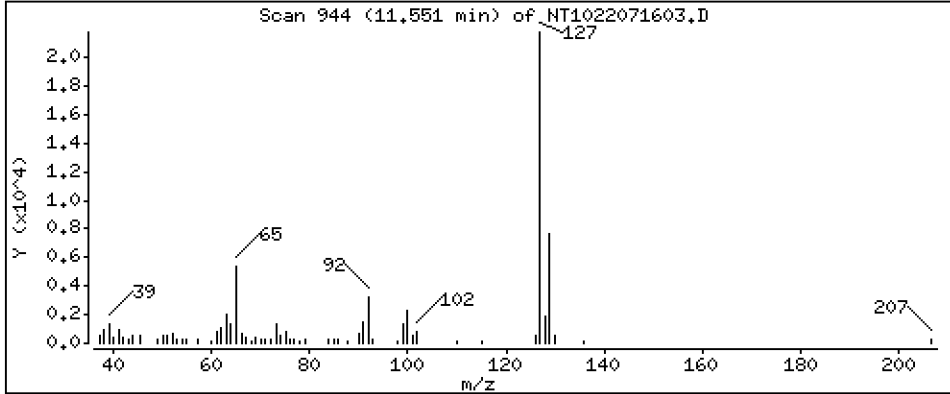
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3063 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

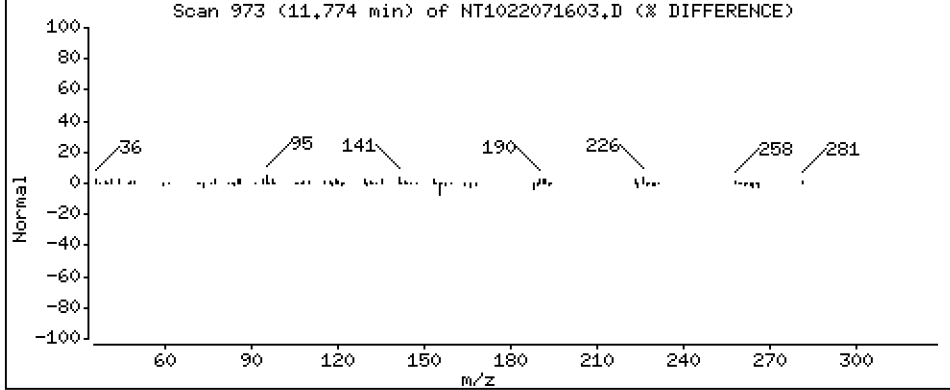
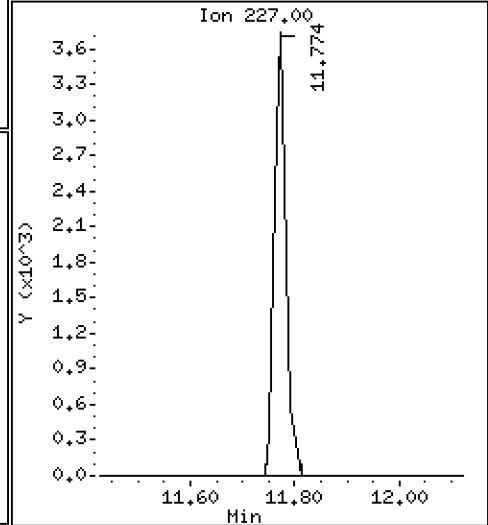
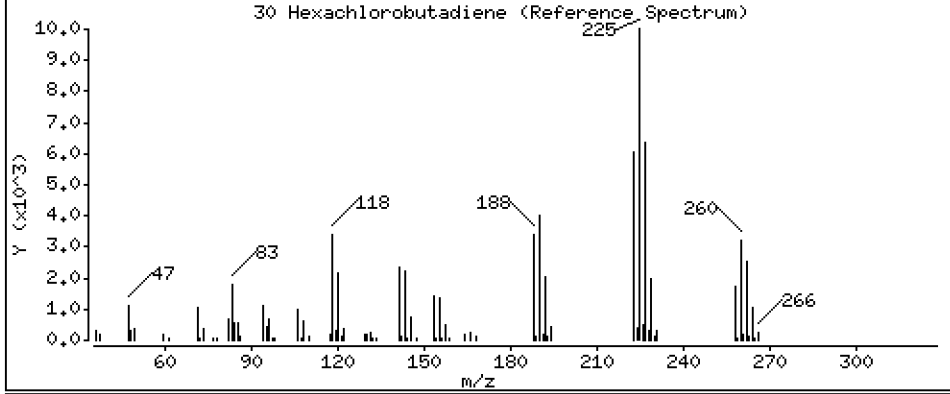
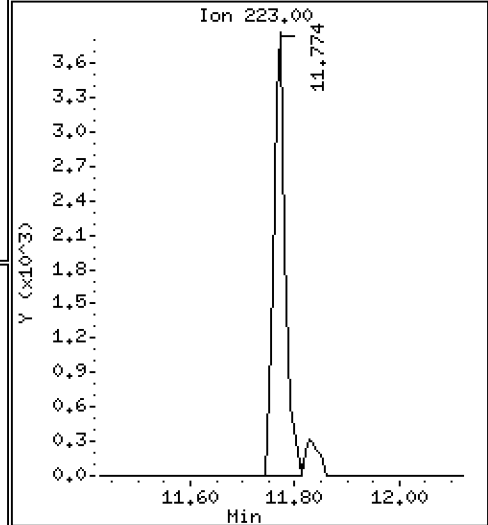
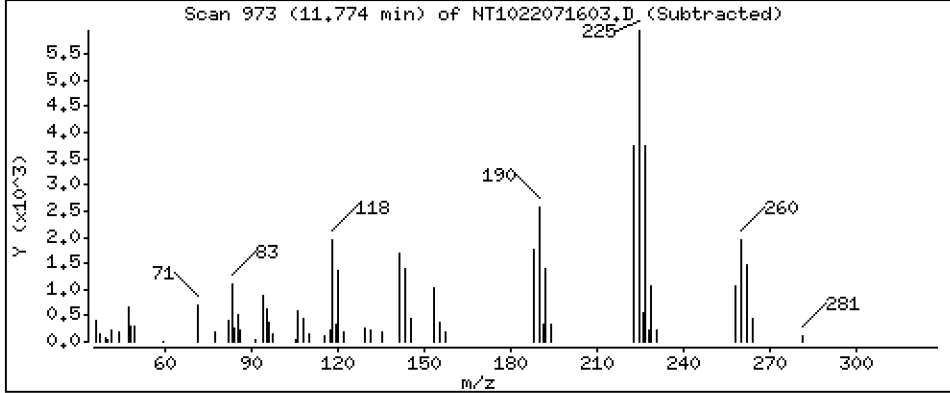
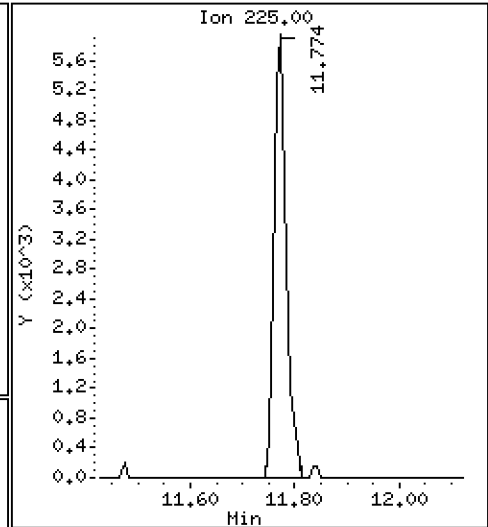
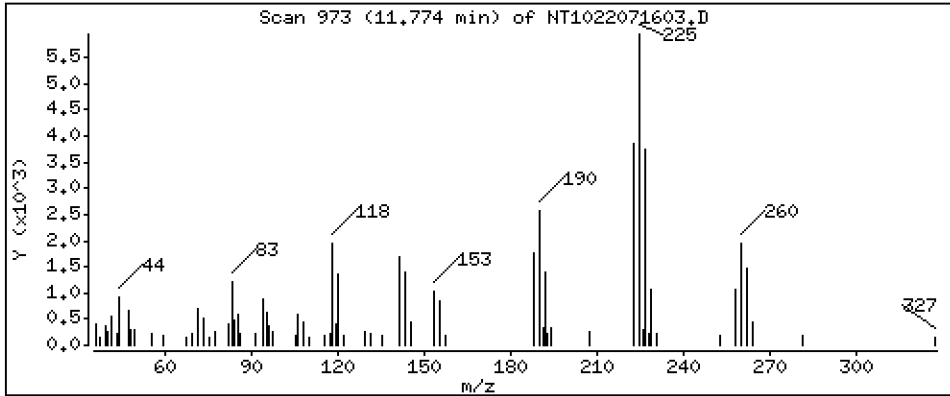
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2727 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

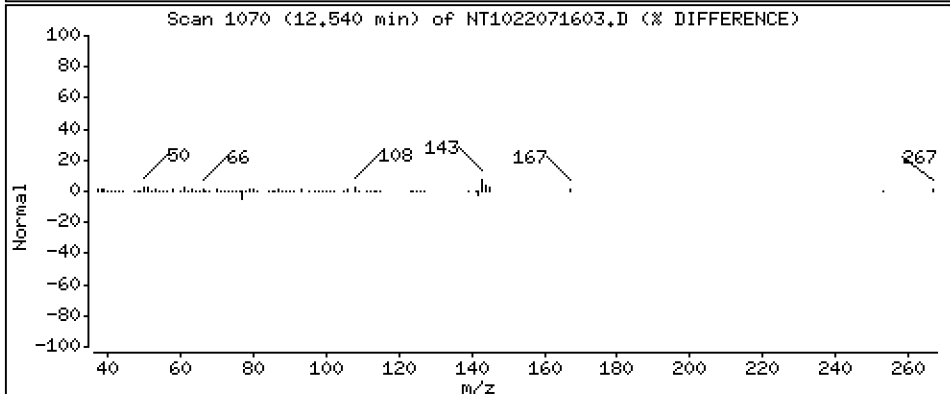
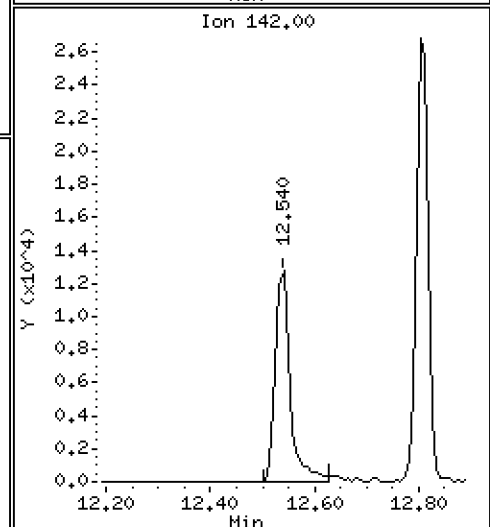
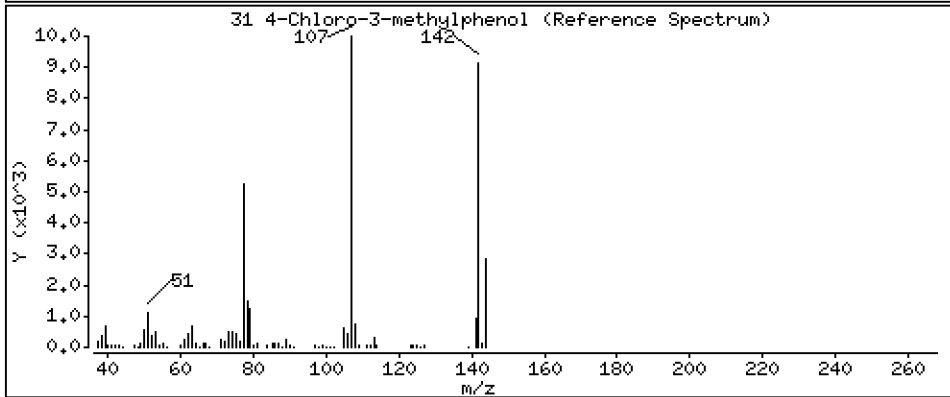
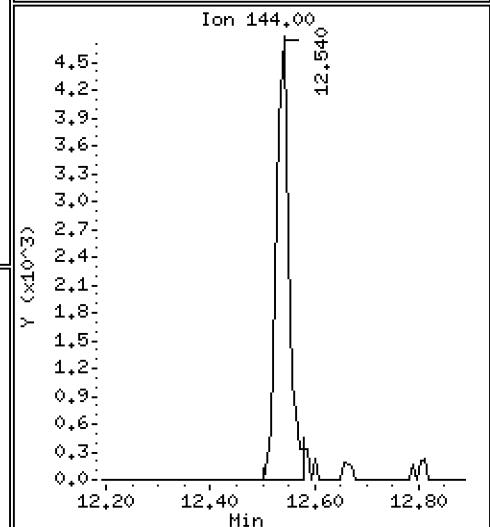
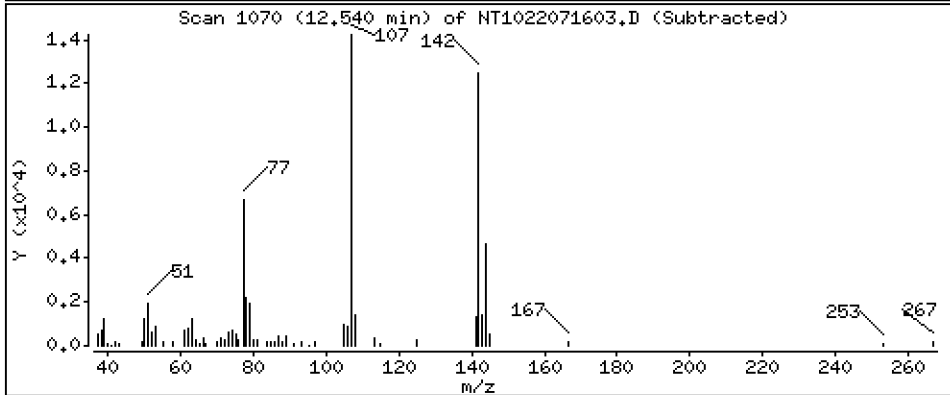
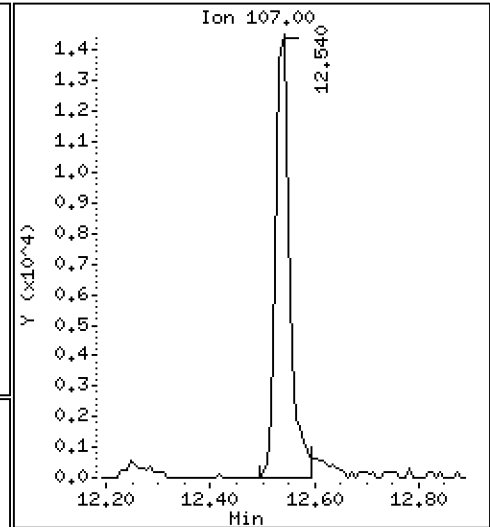
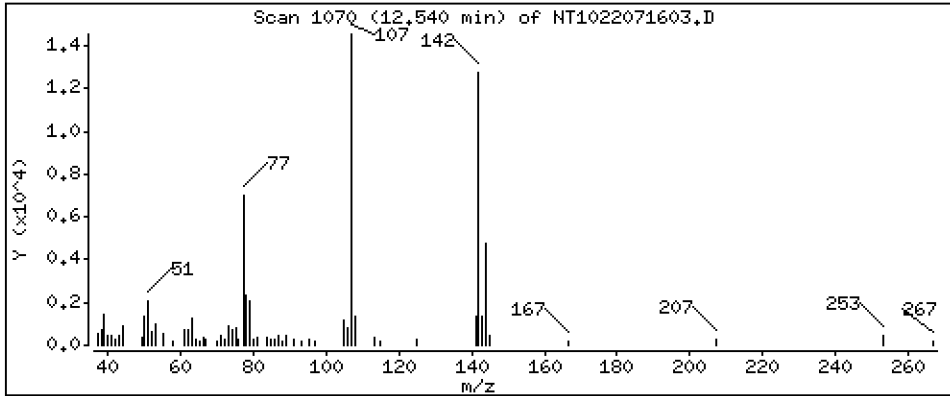
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,2676 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

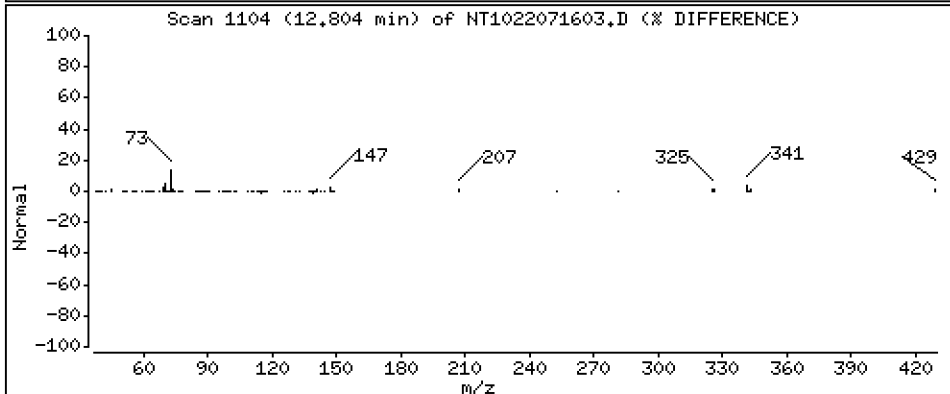
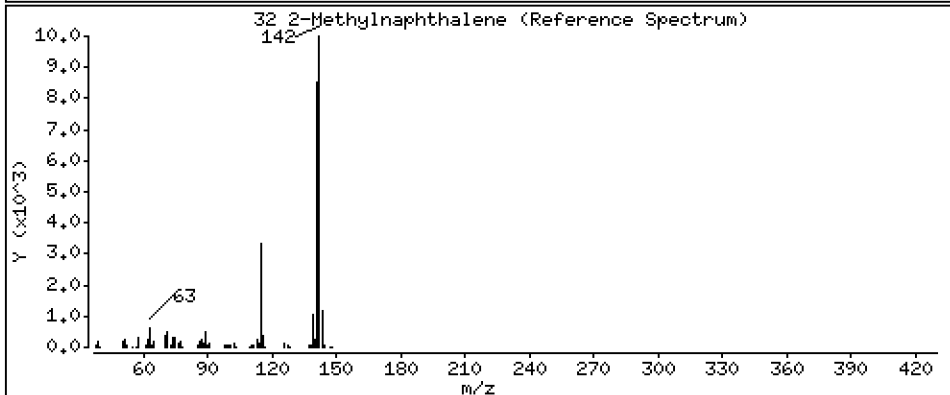
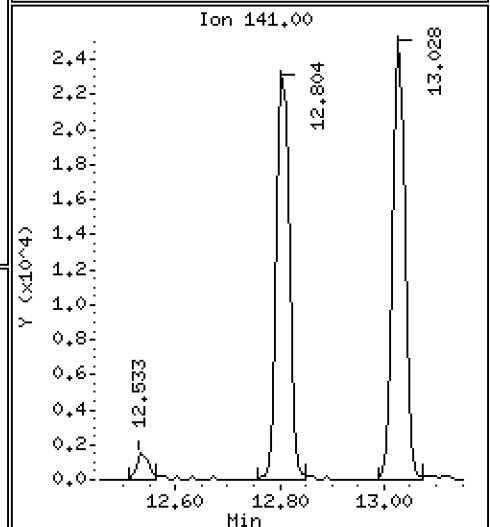
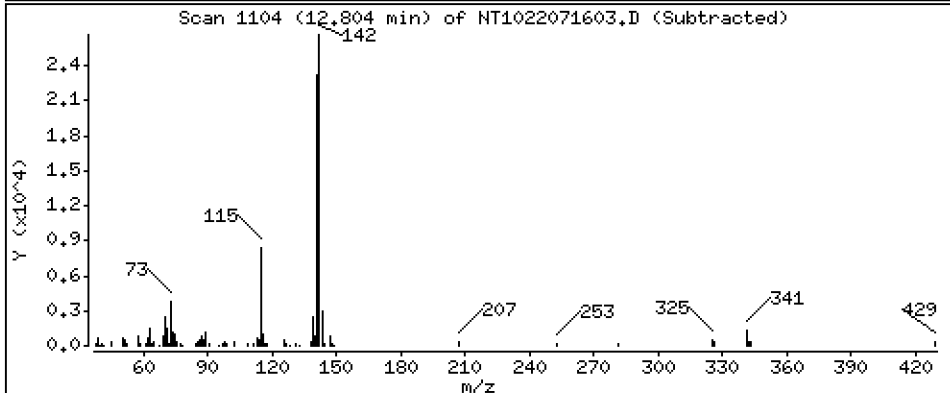
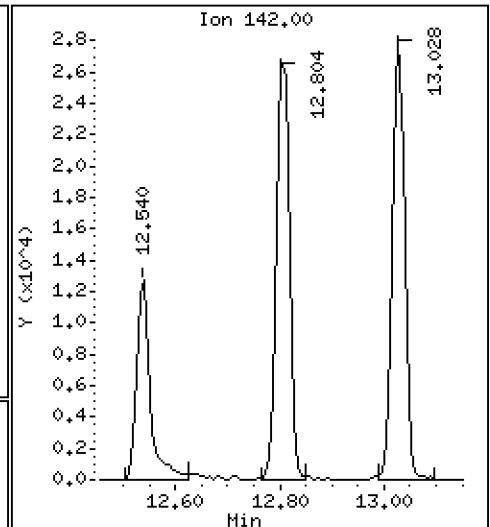
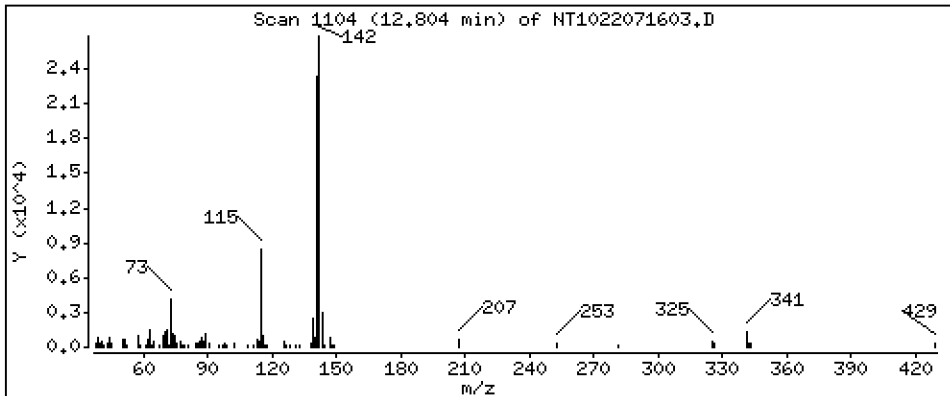
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1753 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

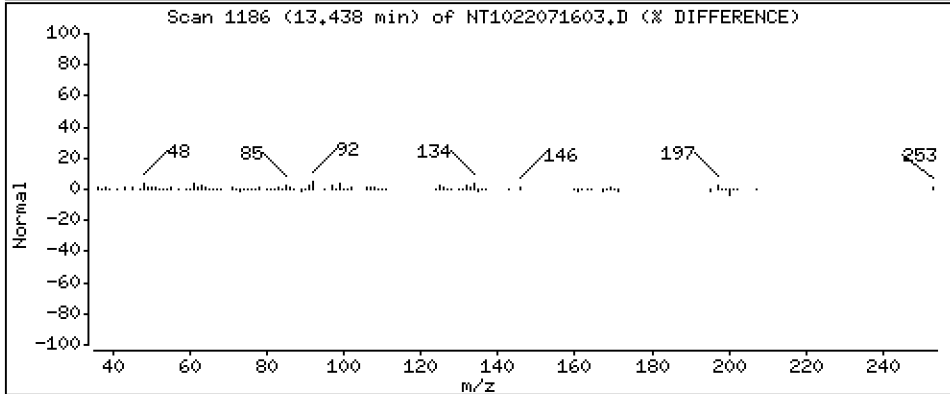
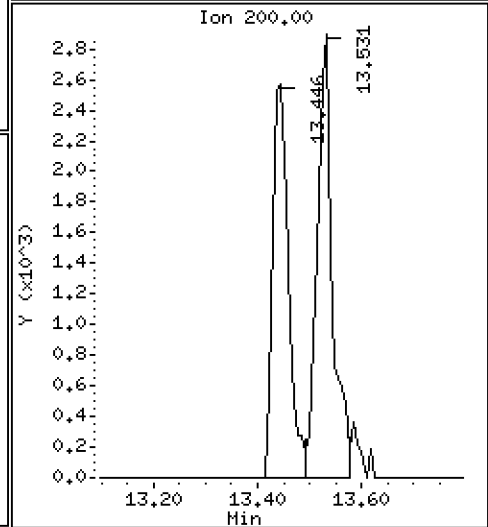
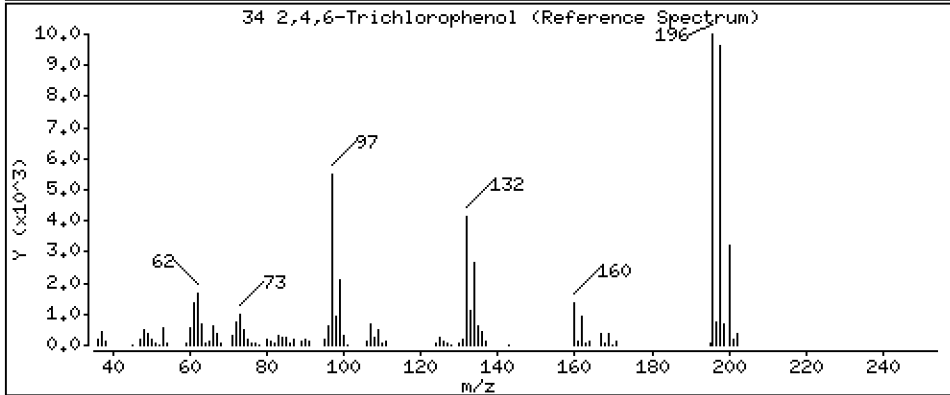
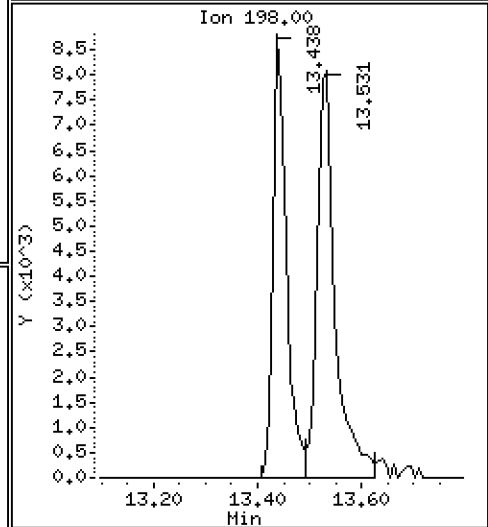
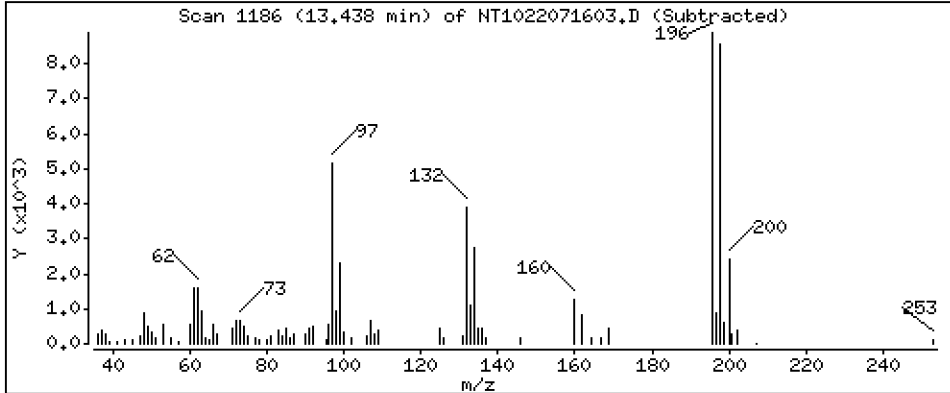
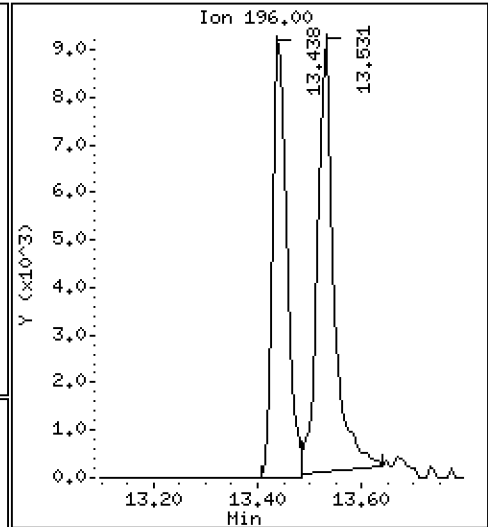
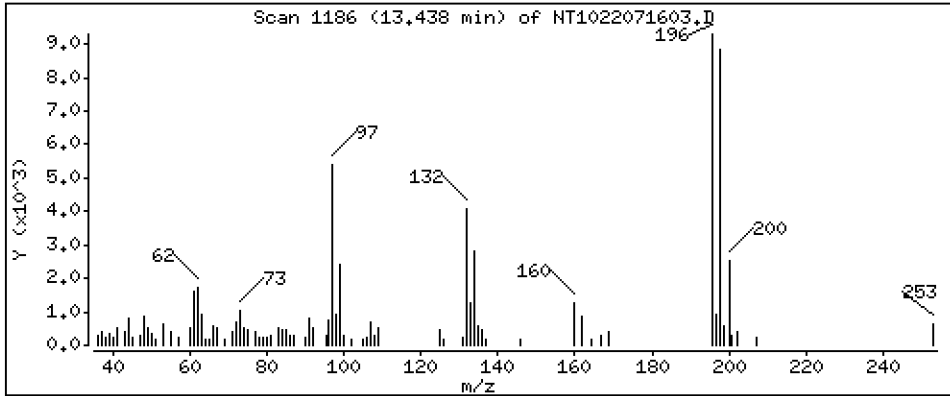
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,1972 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

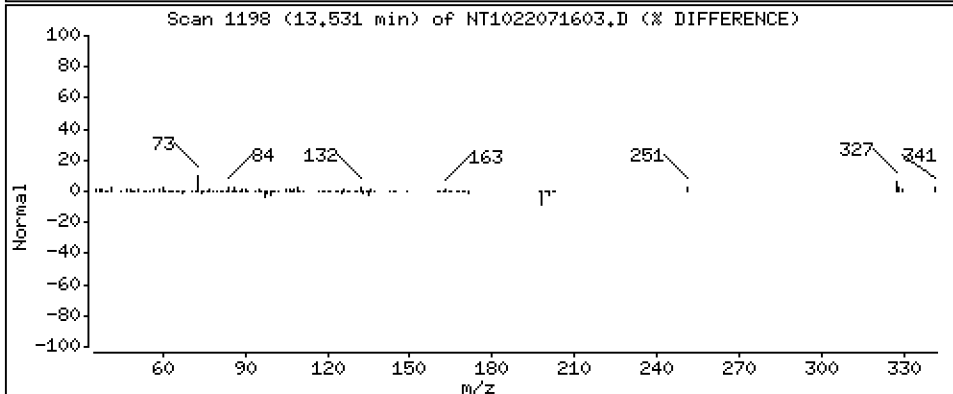
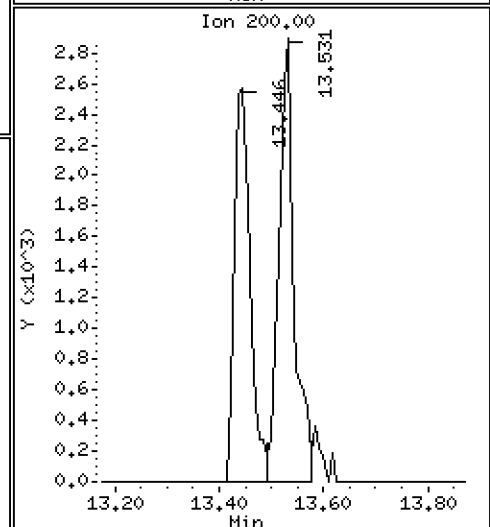
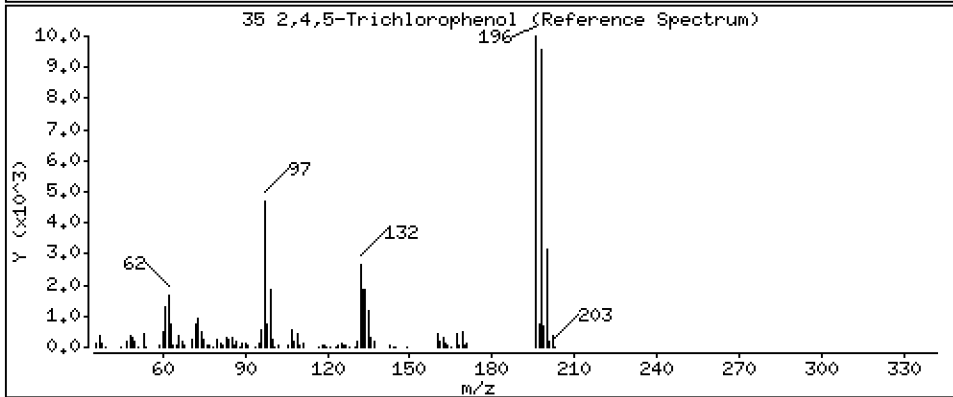
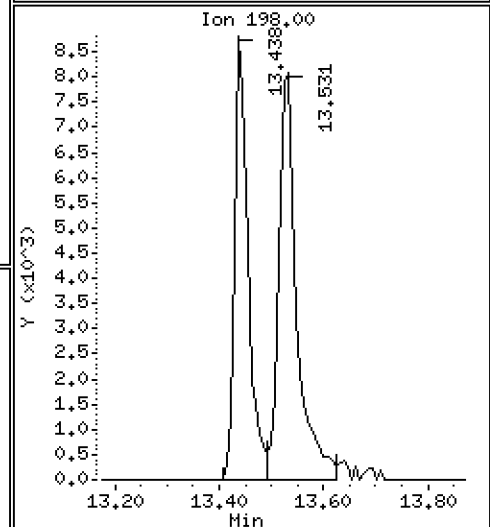
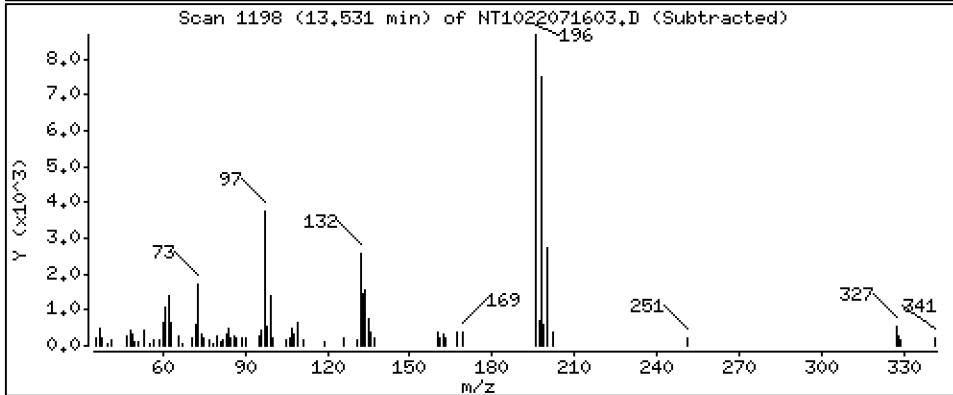
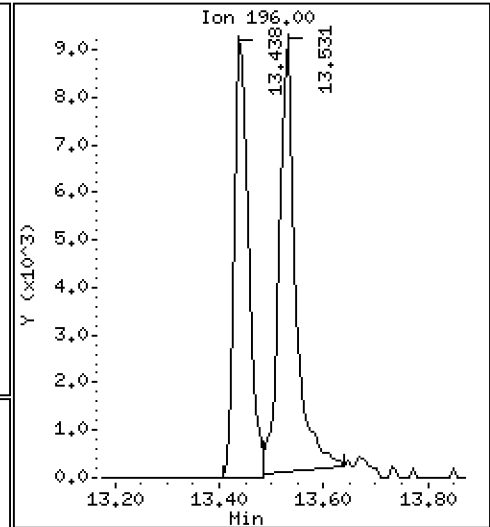
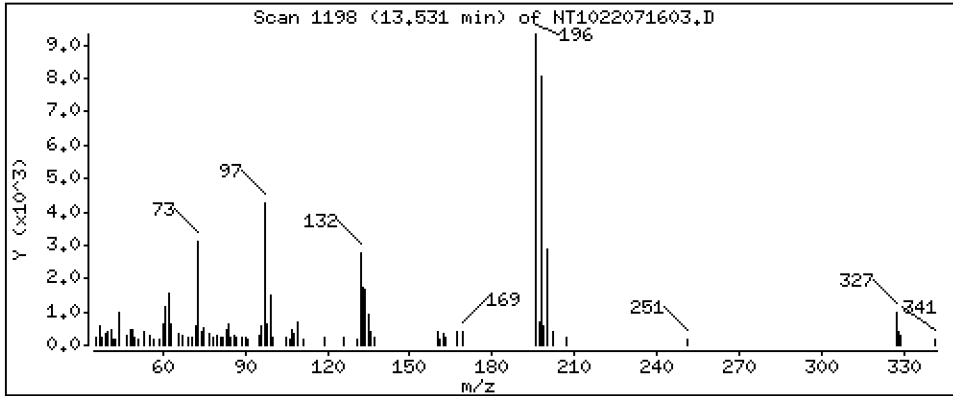
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,1874 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

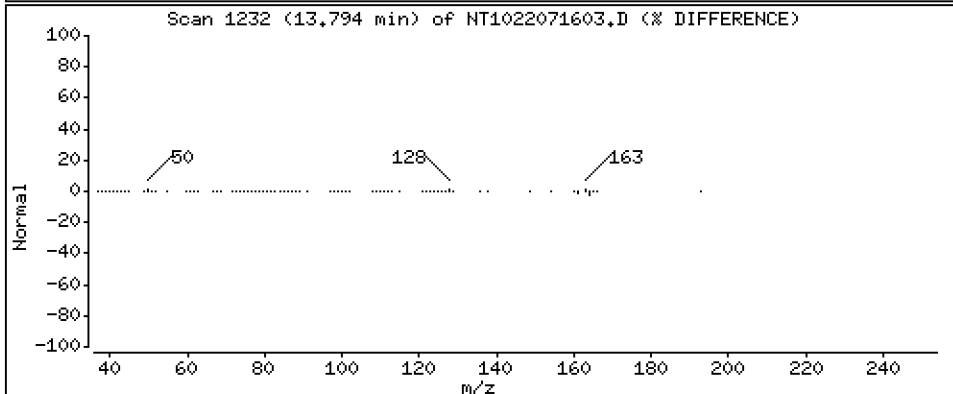
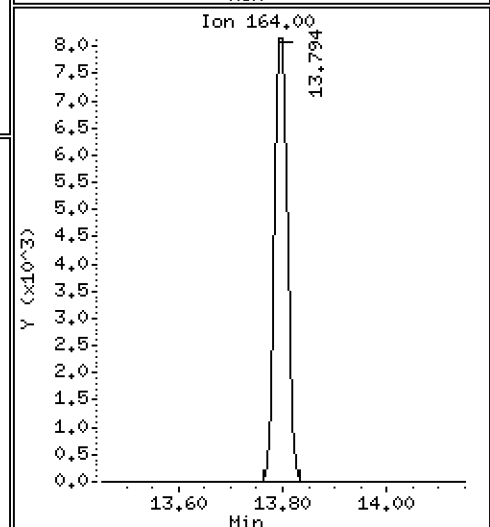
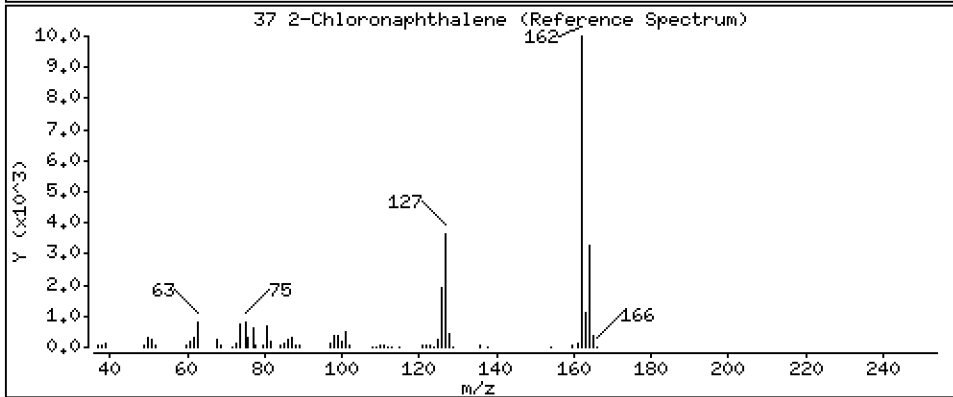
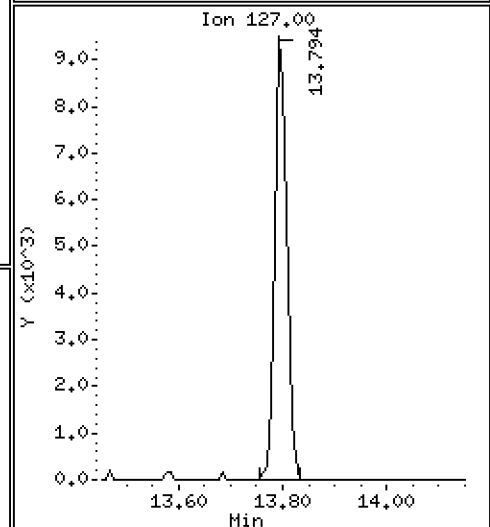
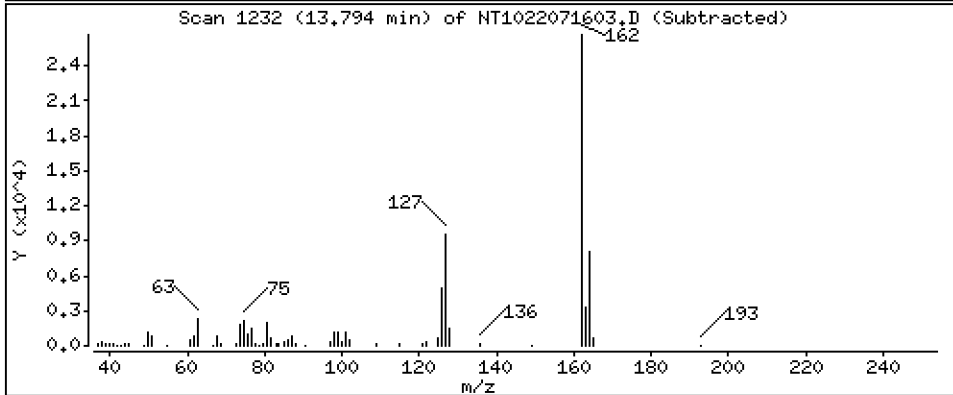
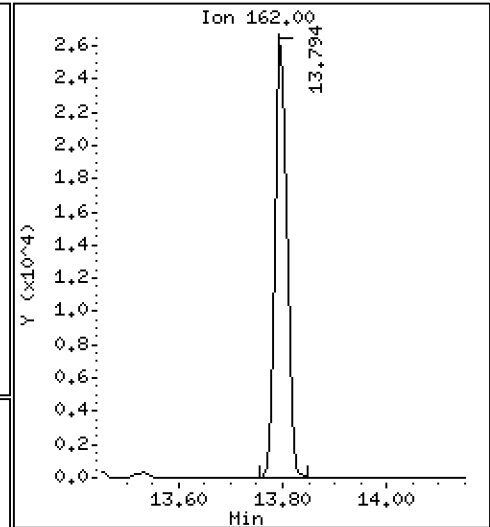
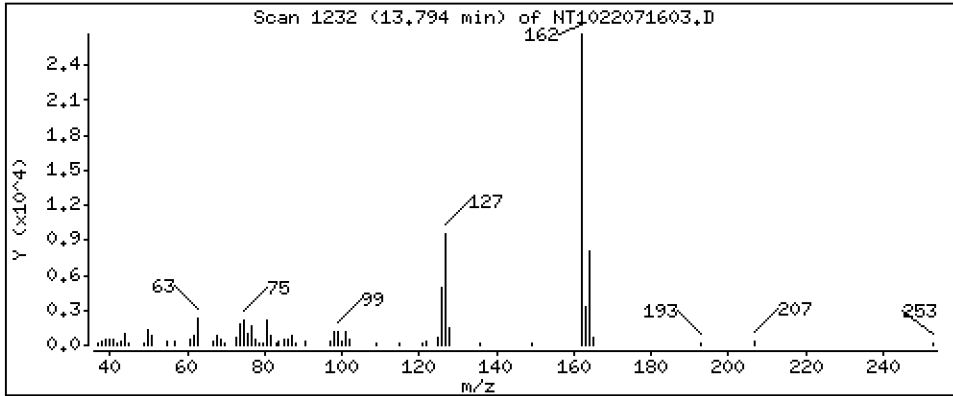
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,1325 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

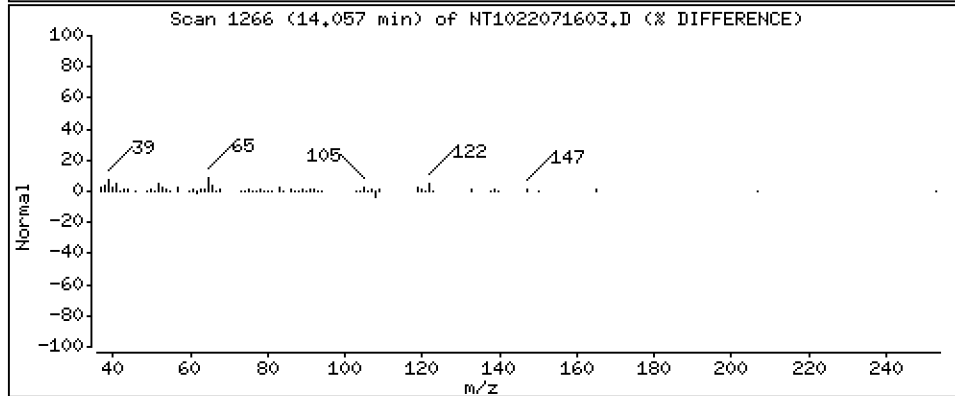
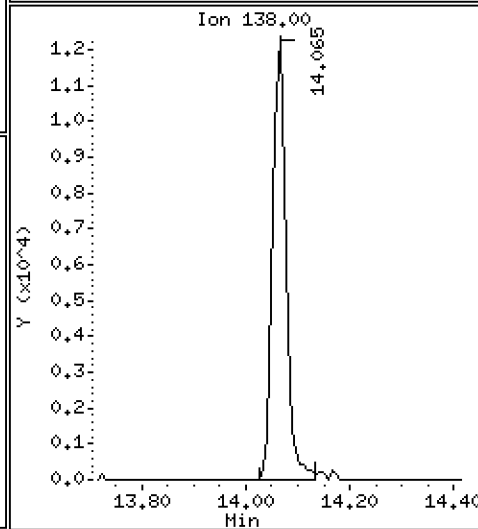
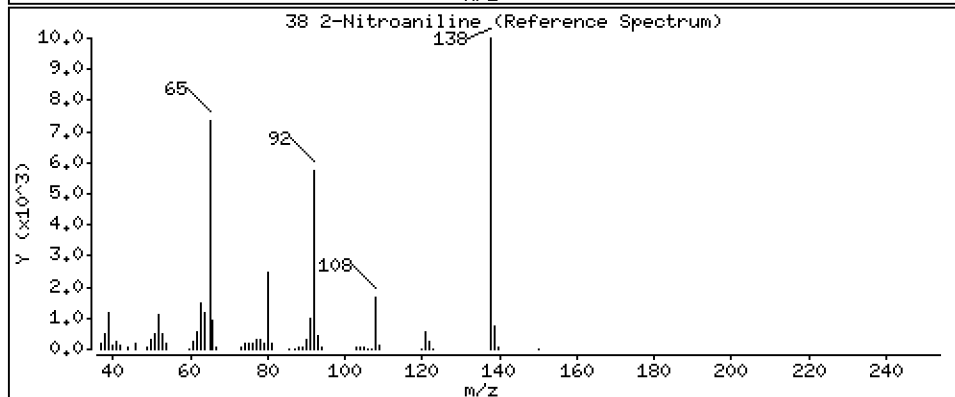
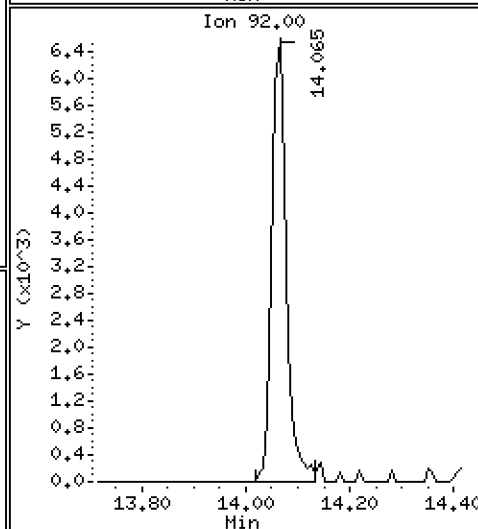
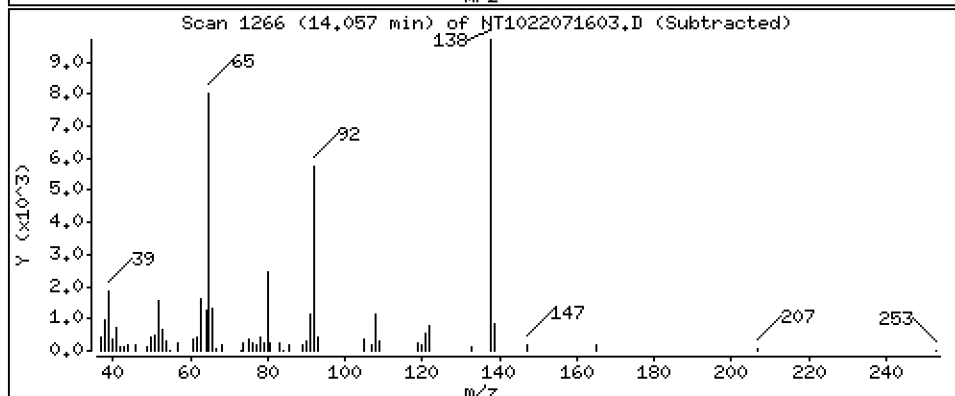
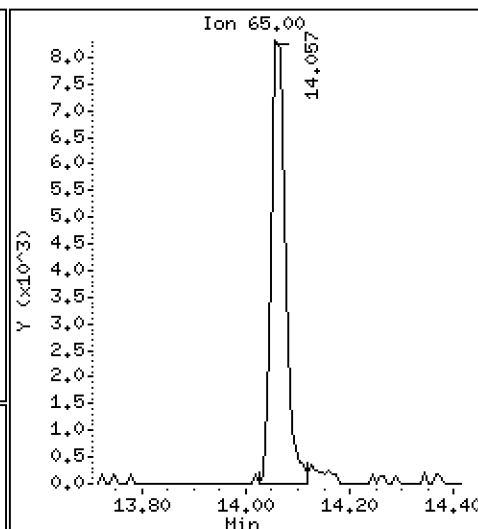
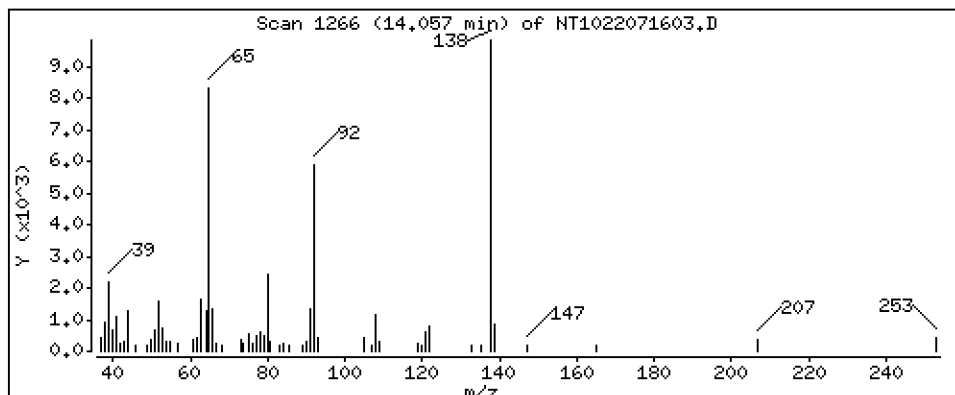
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,1858 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

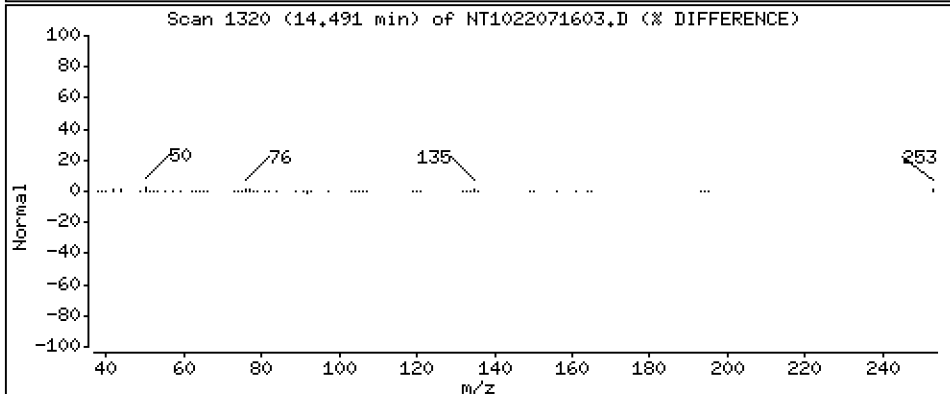
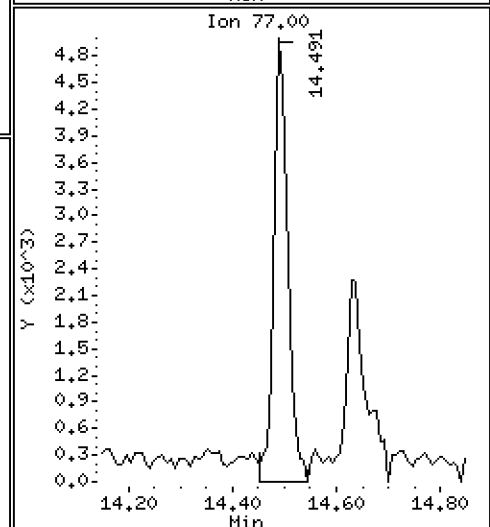
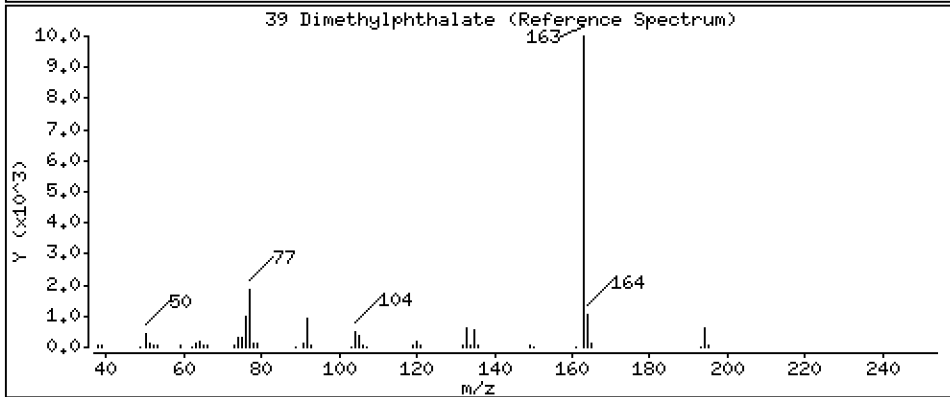
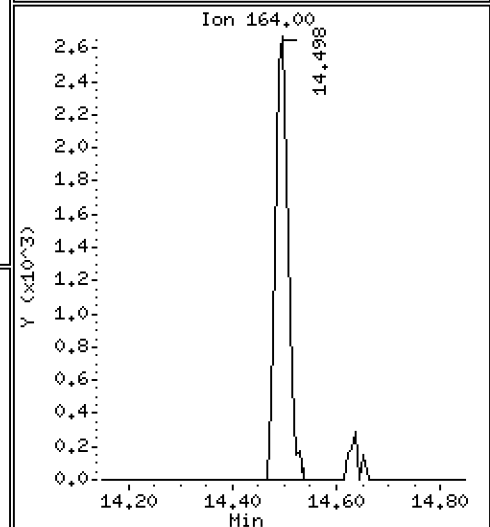
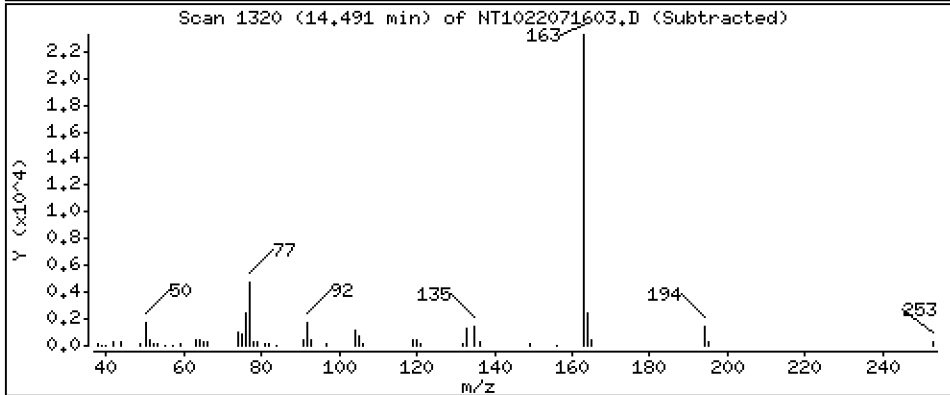
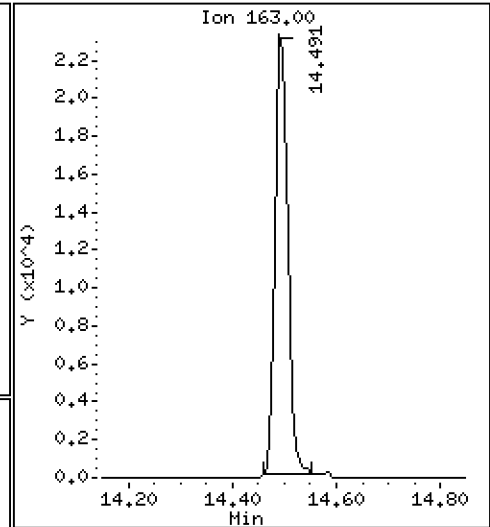
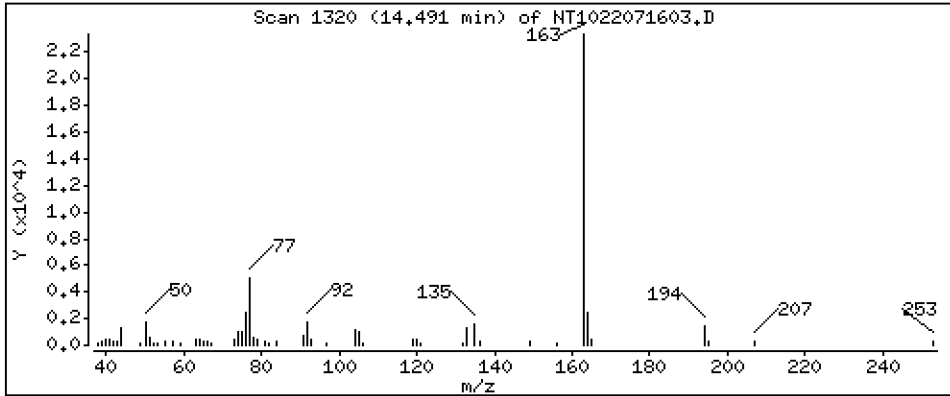
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,1407 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

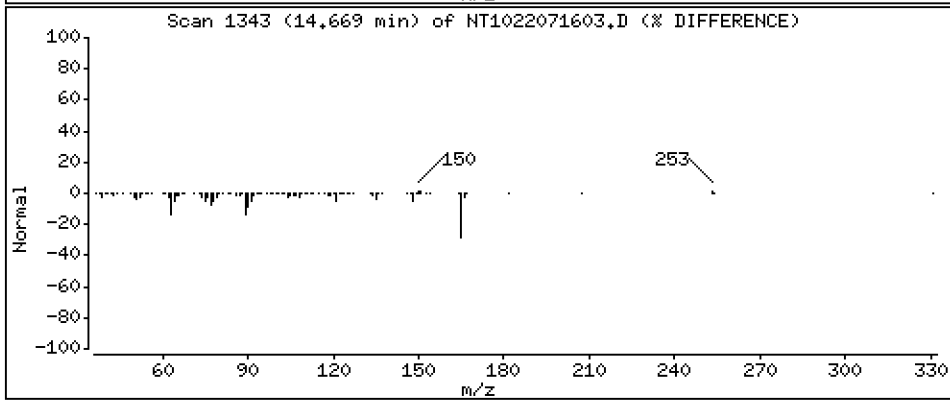
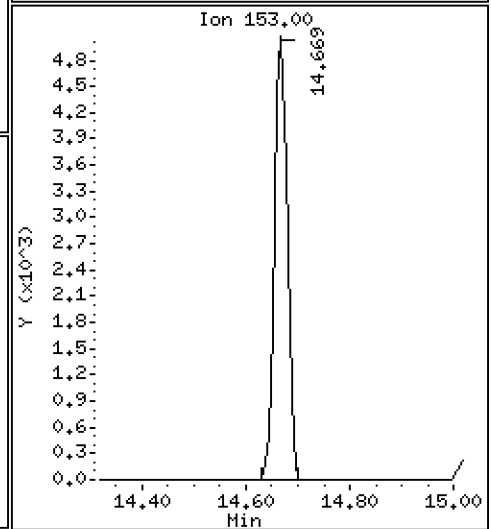
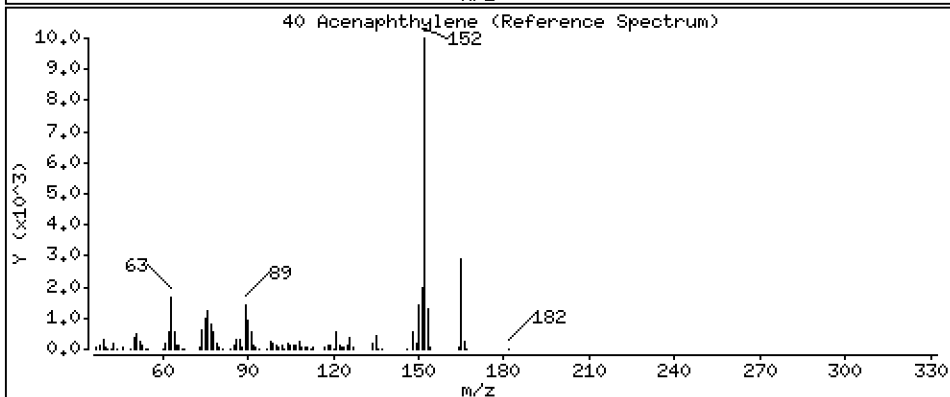
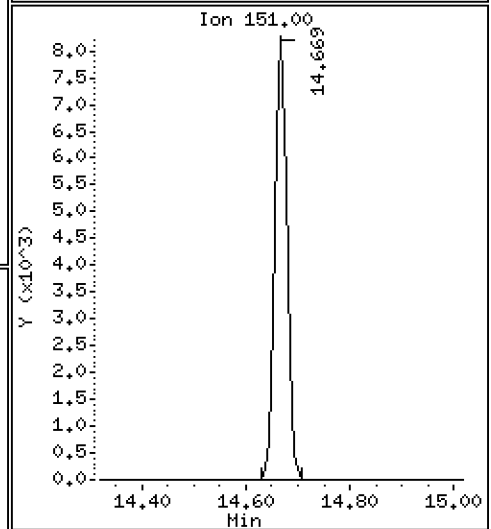
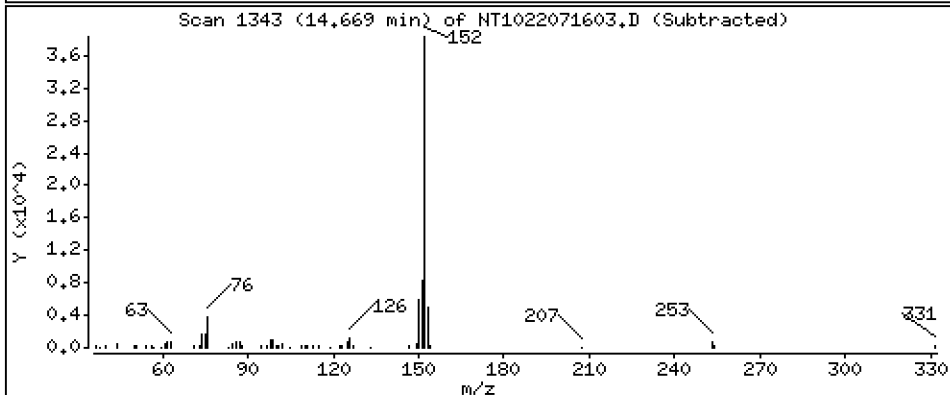
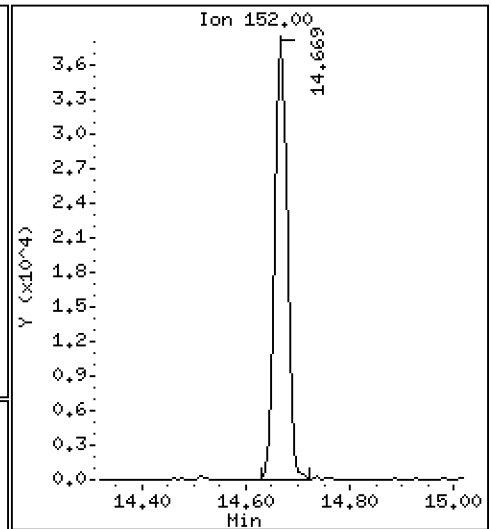
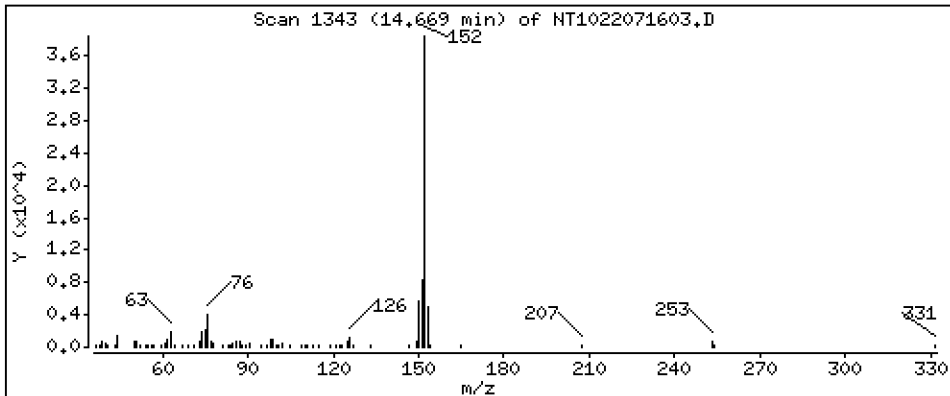
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,1356 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

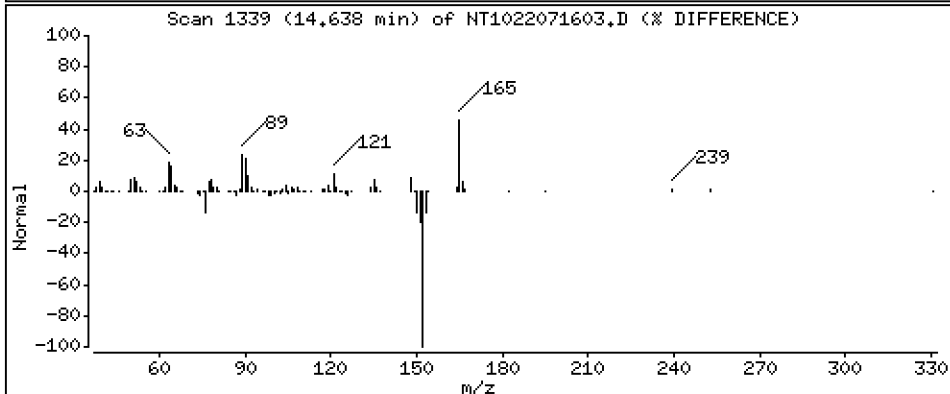
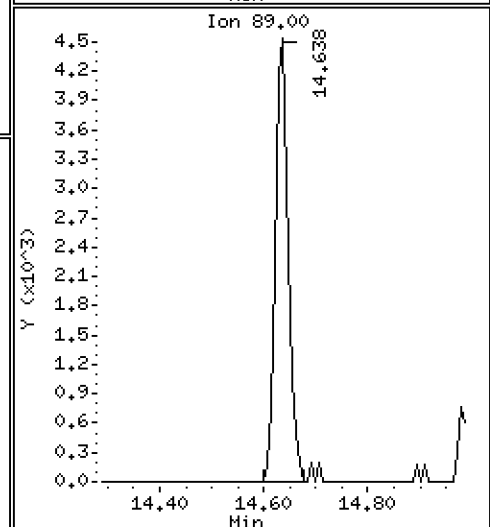
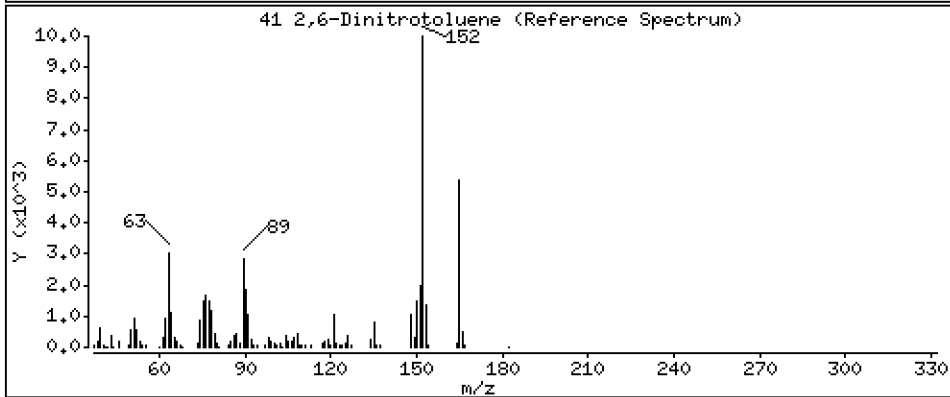
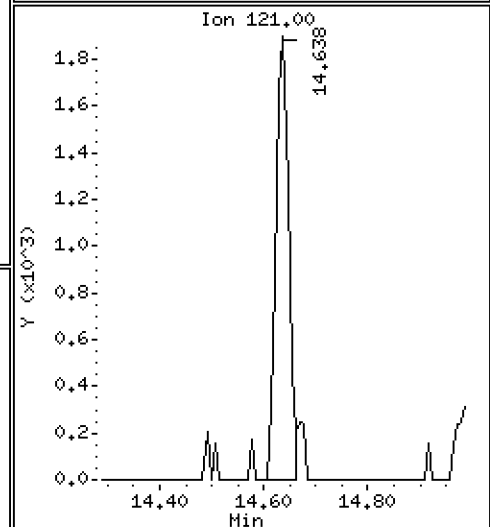
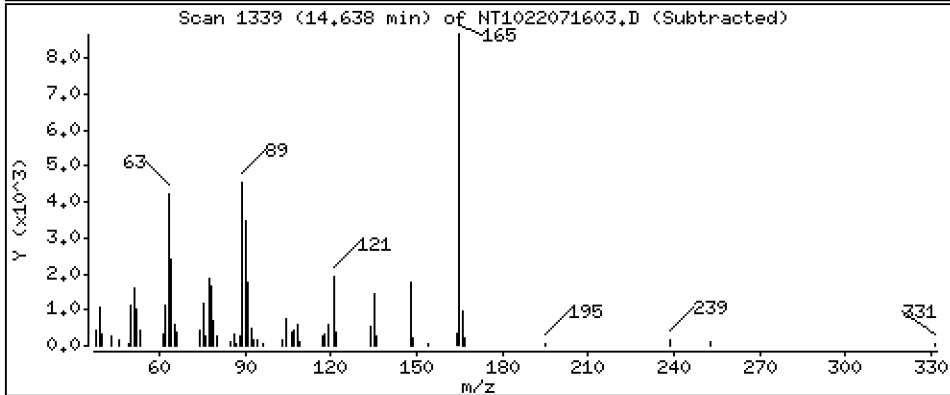
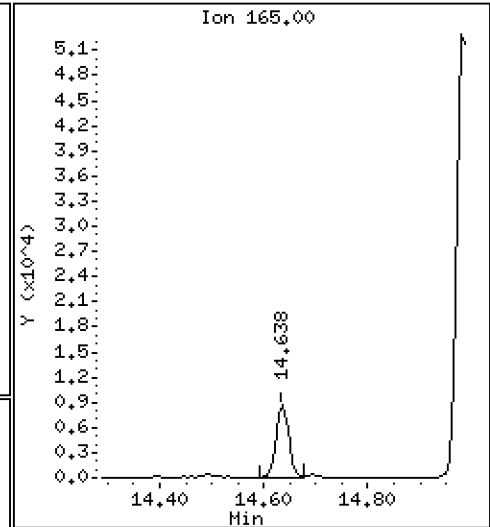
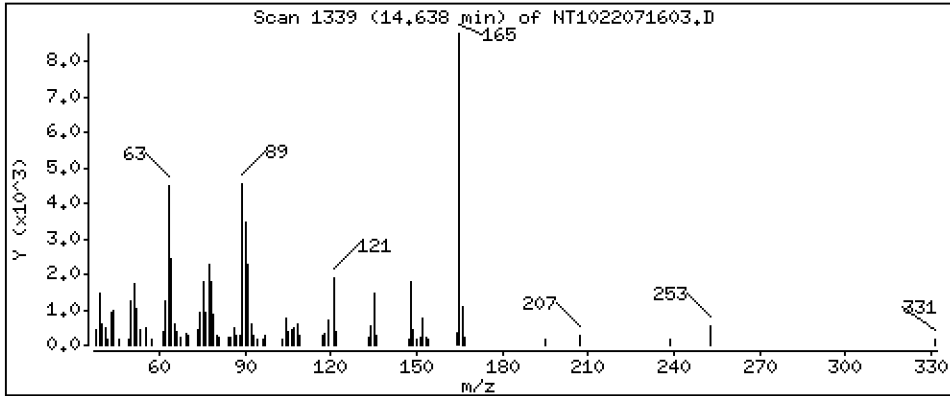
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.2278 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

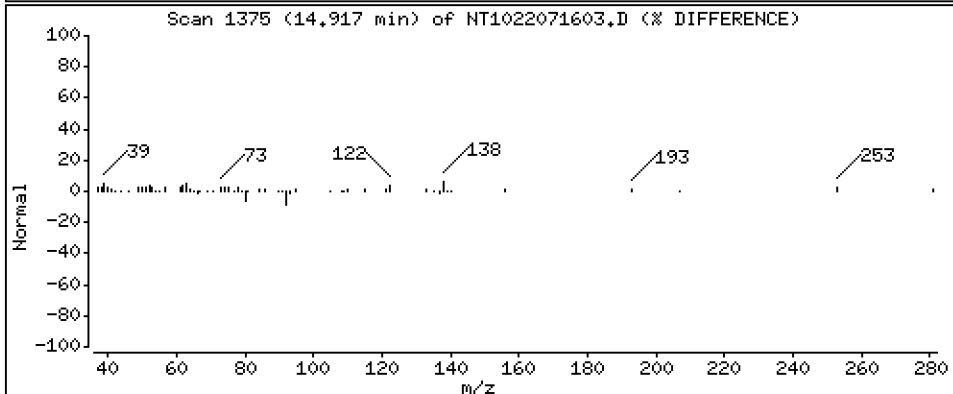
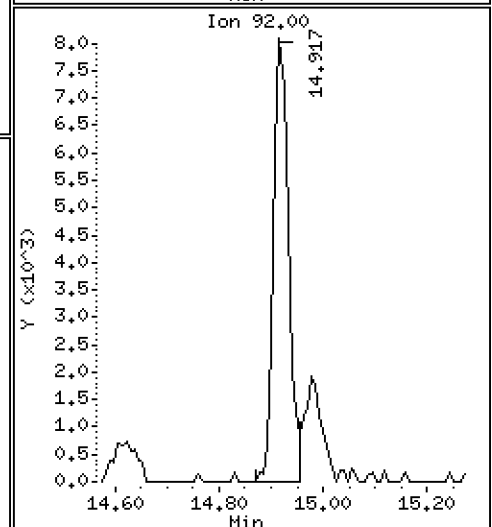
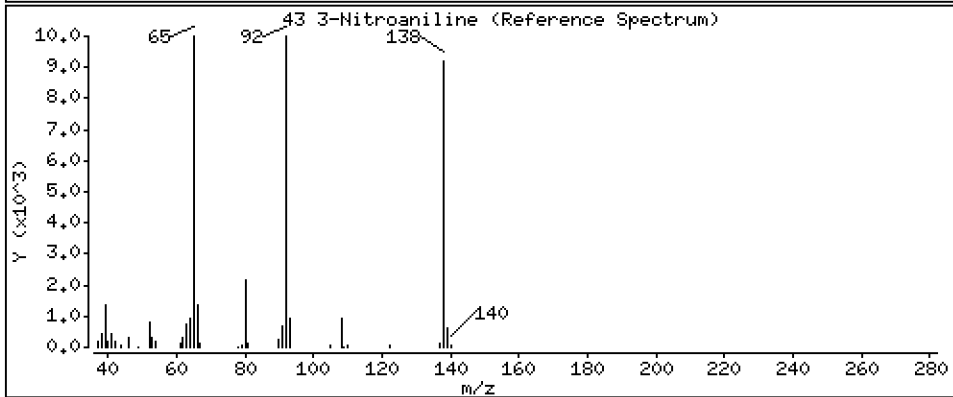
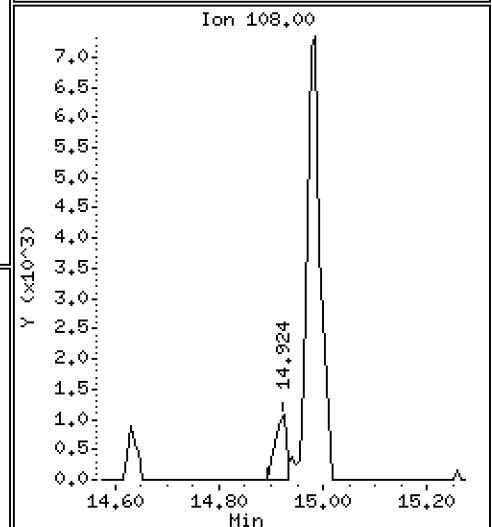
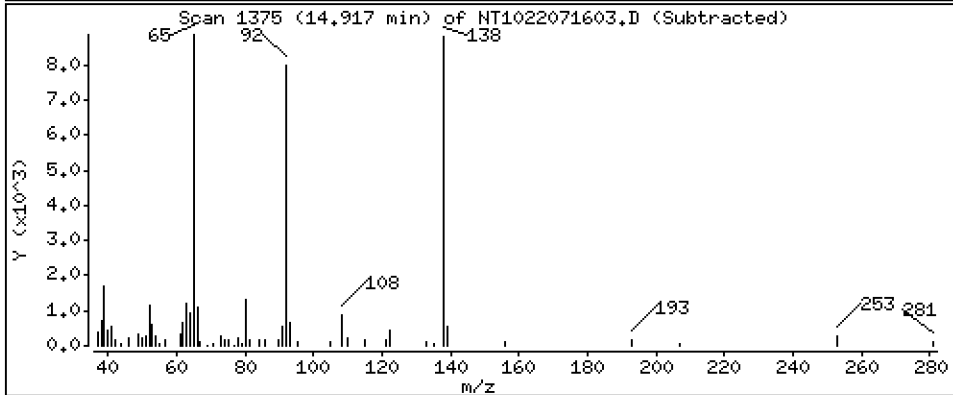
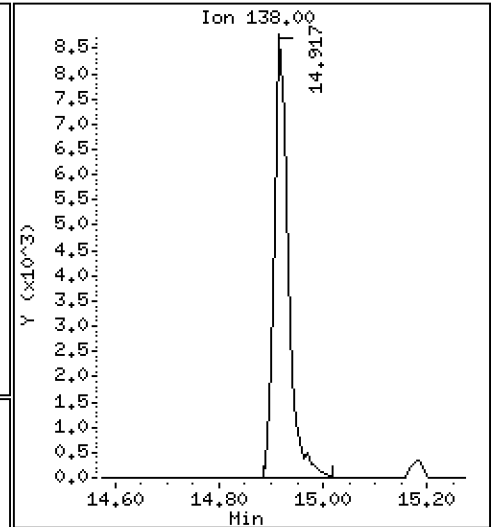
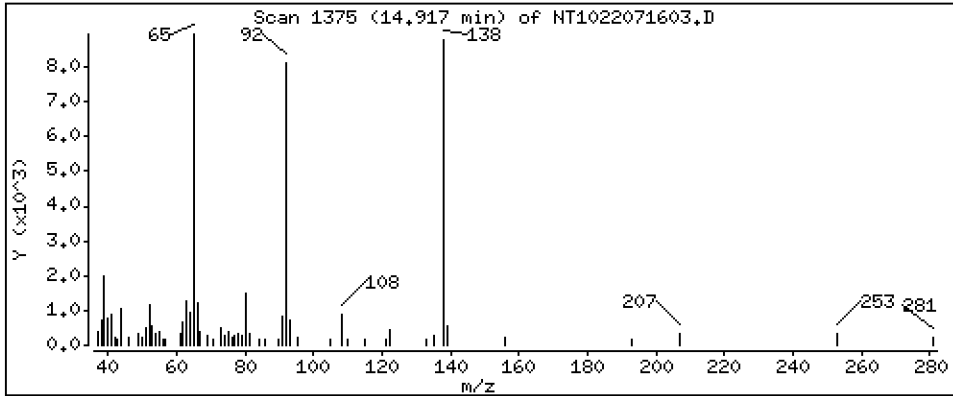
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2401 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

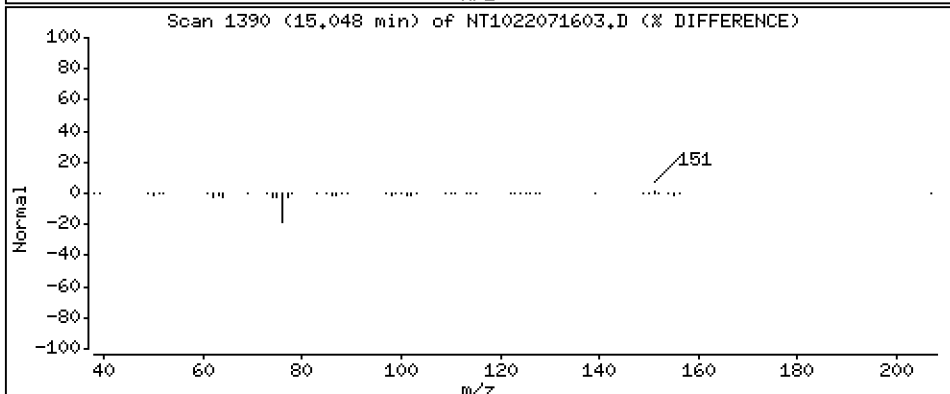
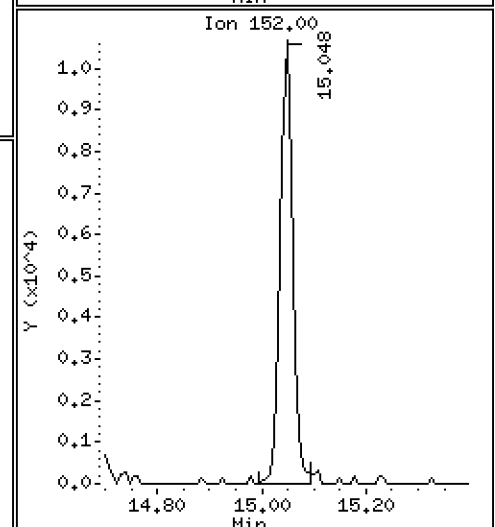
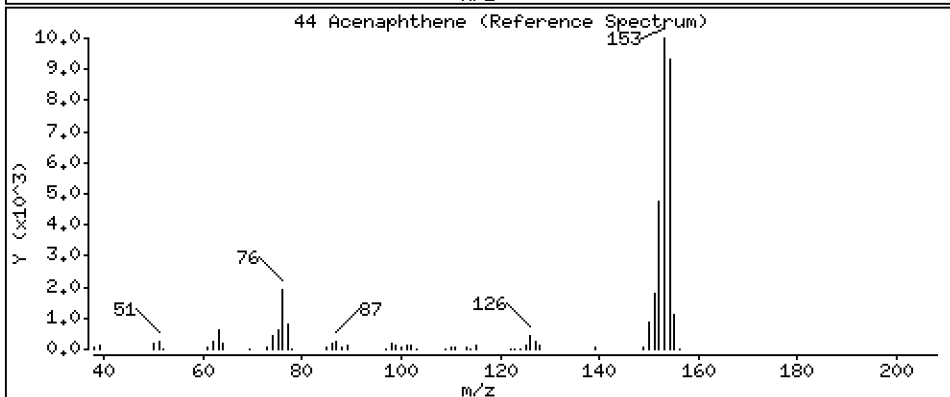
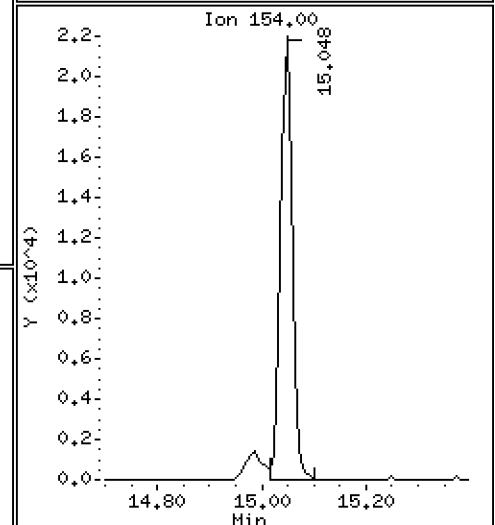
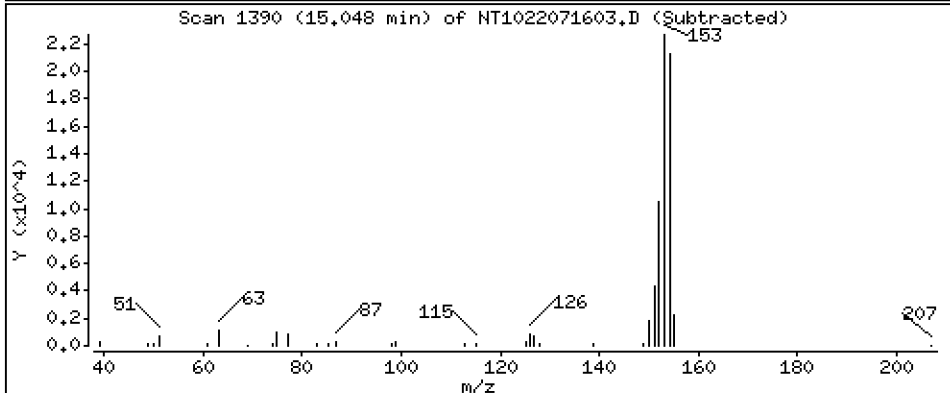
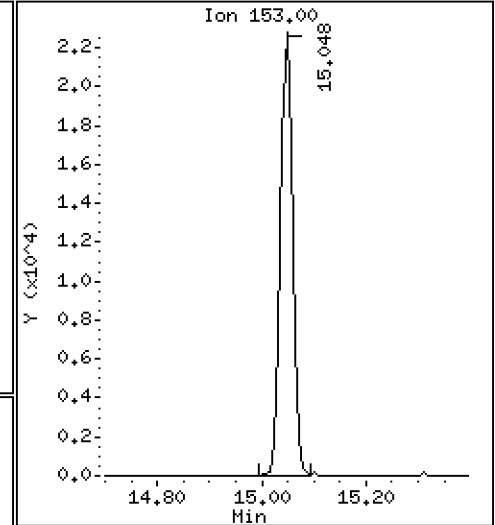
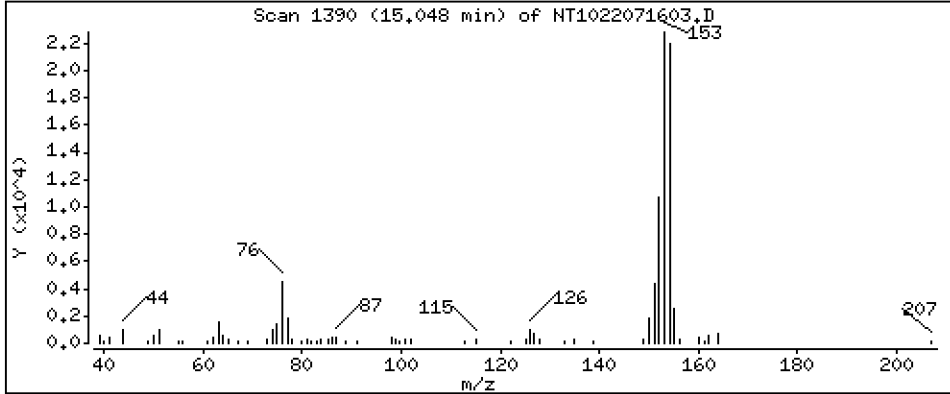
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.1864 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

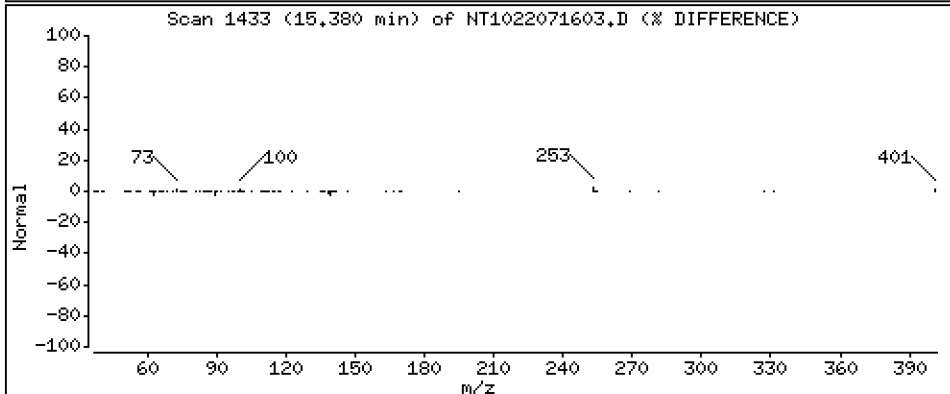
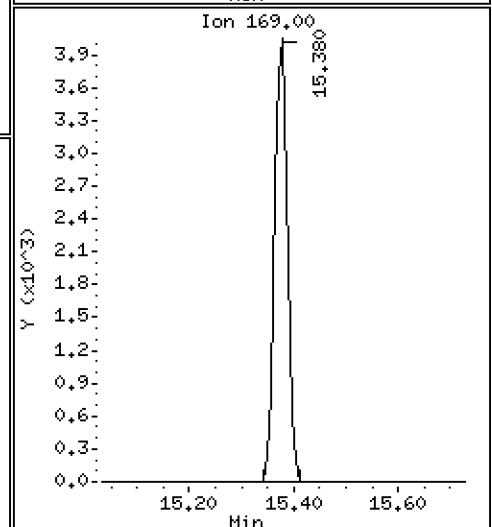
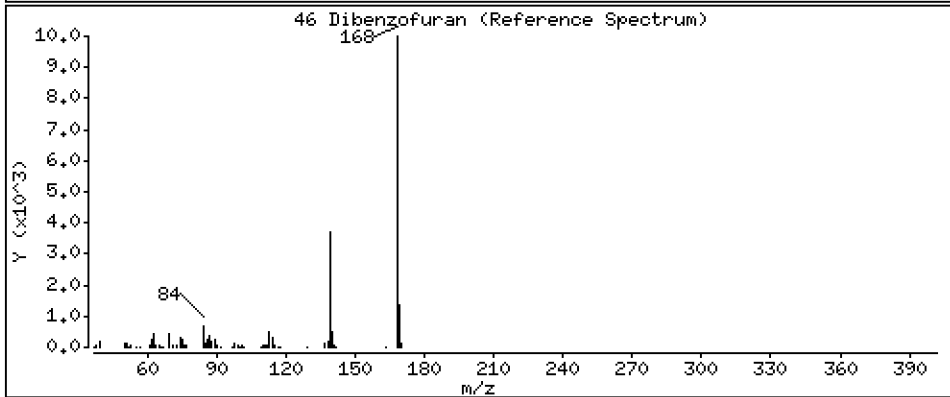
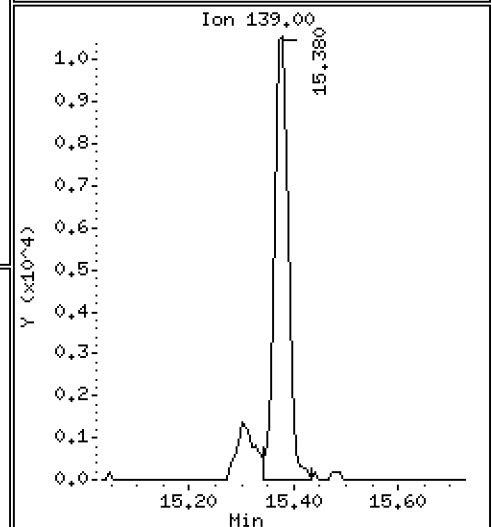
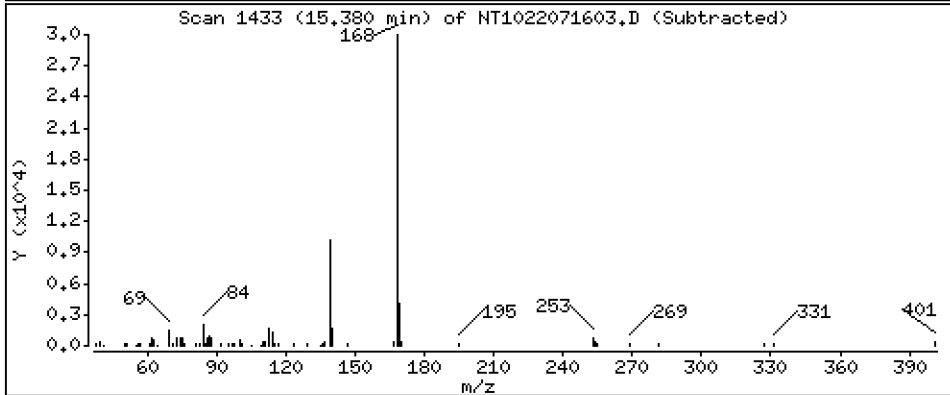
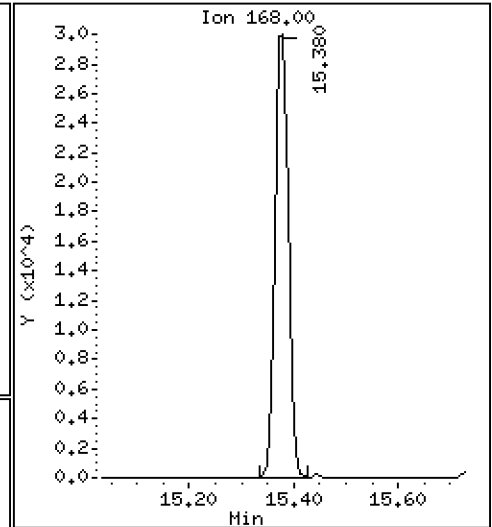
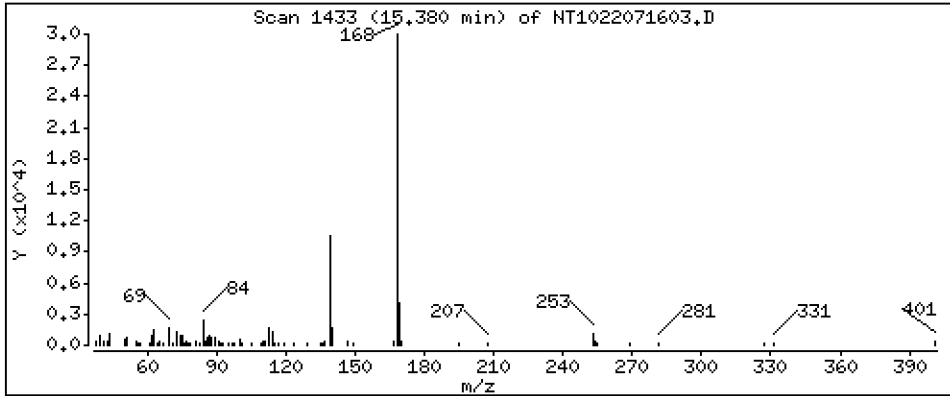
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1442 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

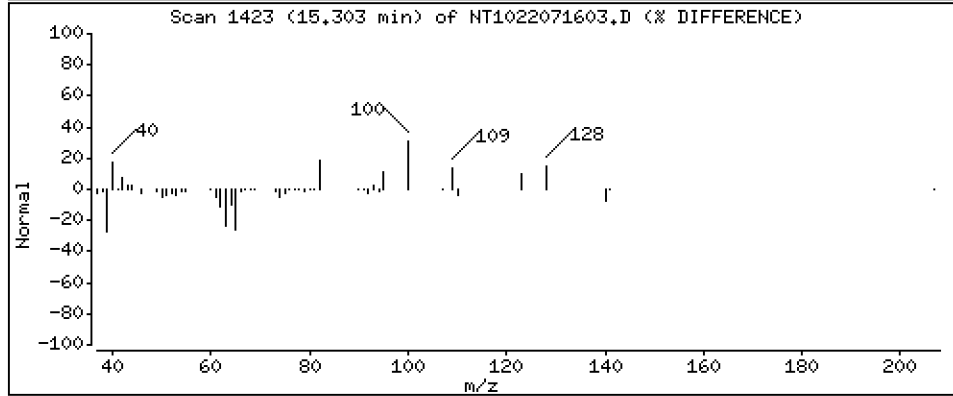
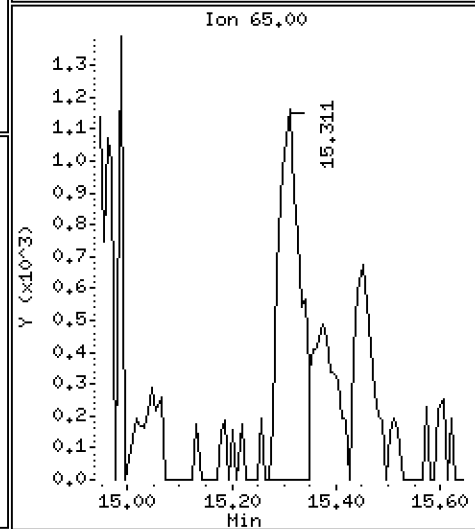
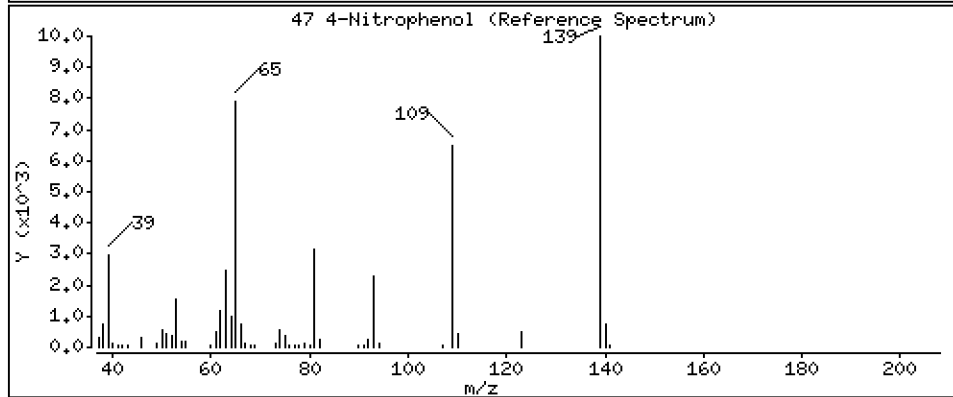
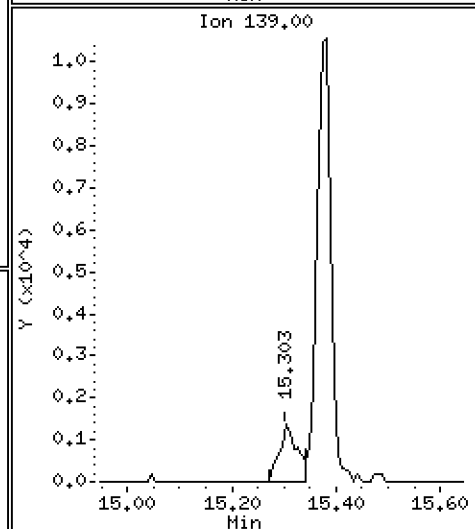
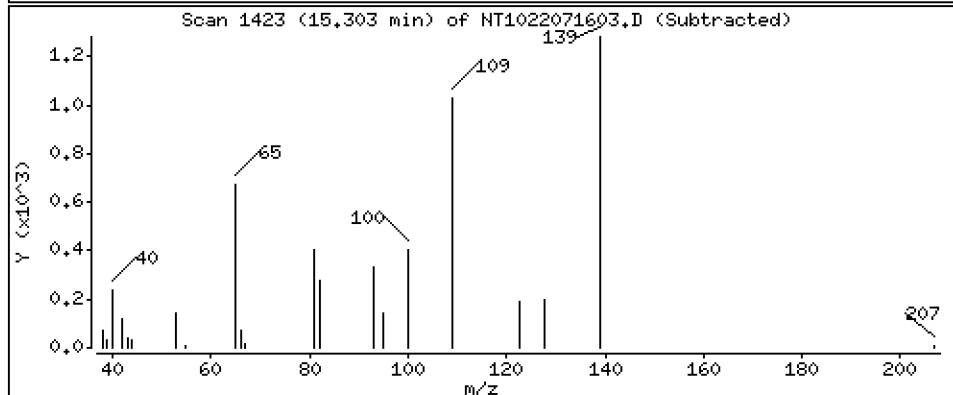
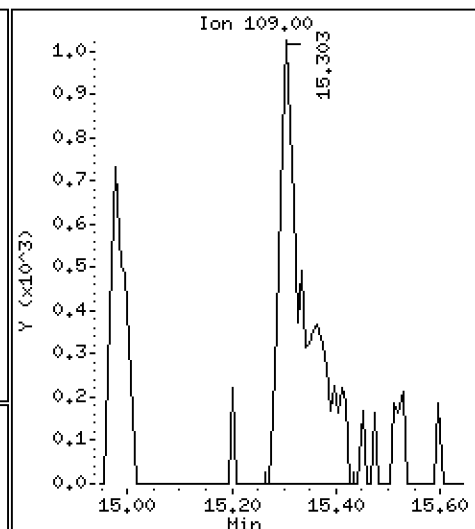
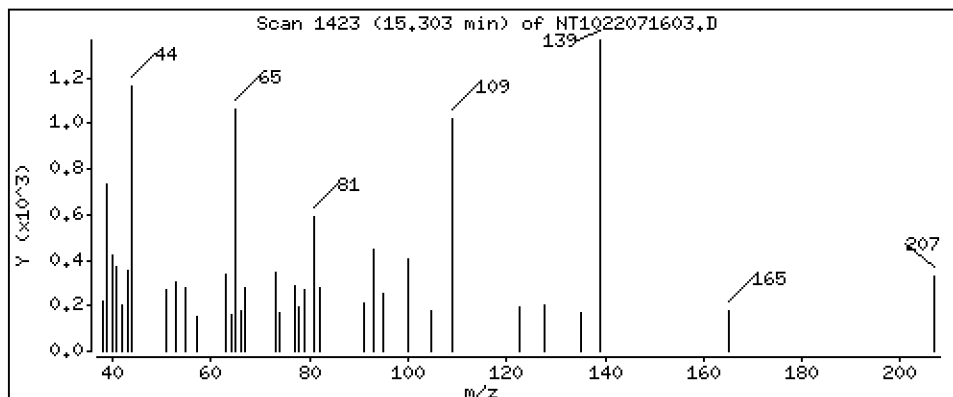
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.1482 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

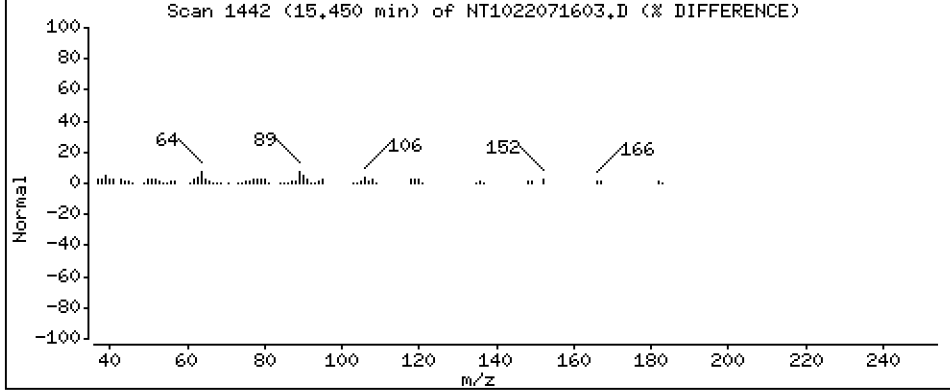
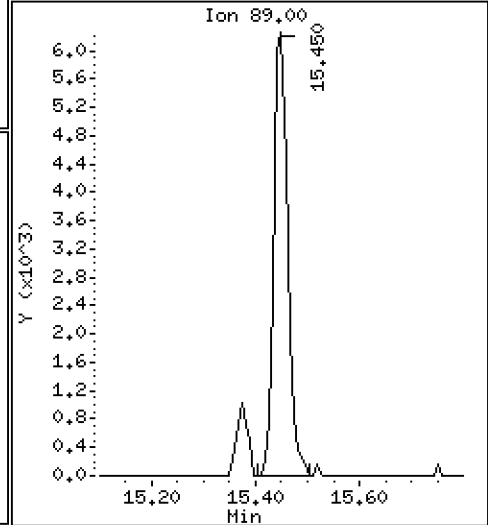
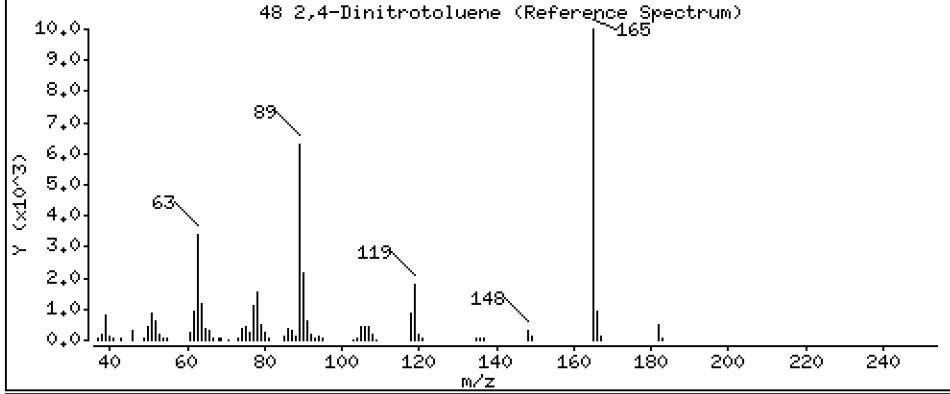
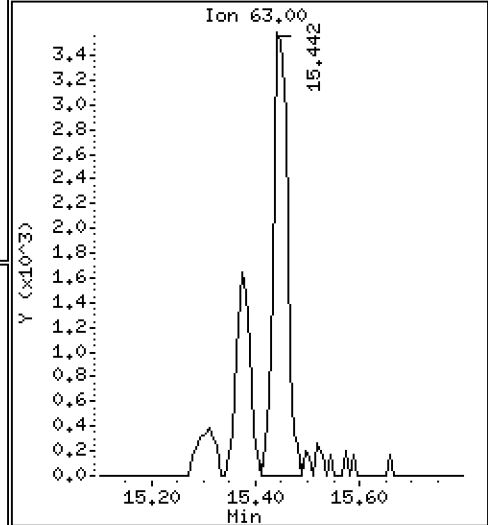
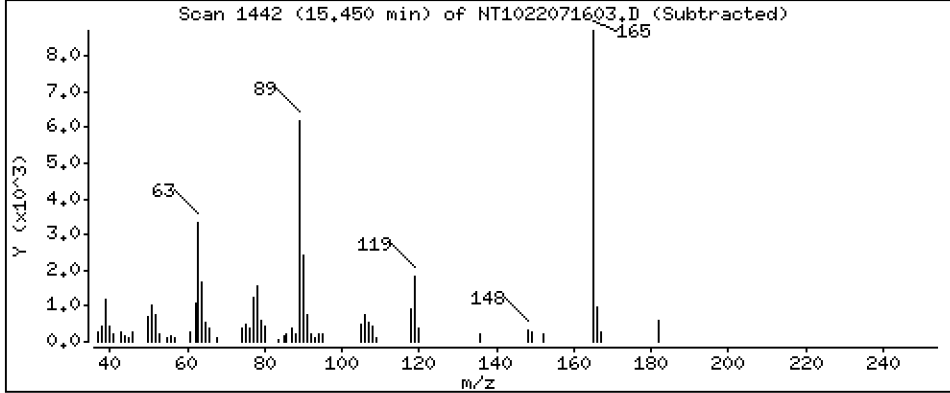
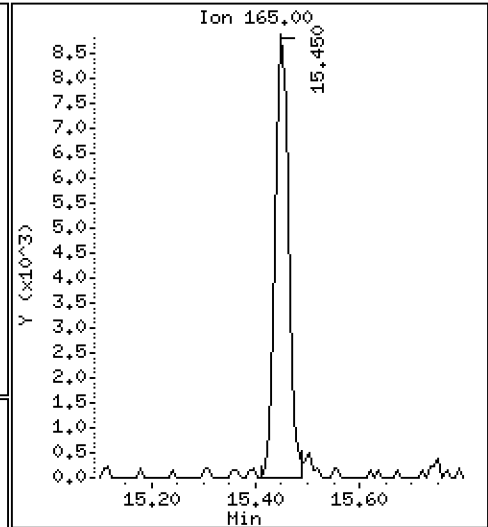
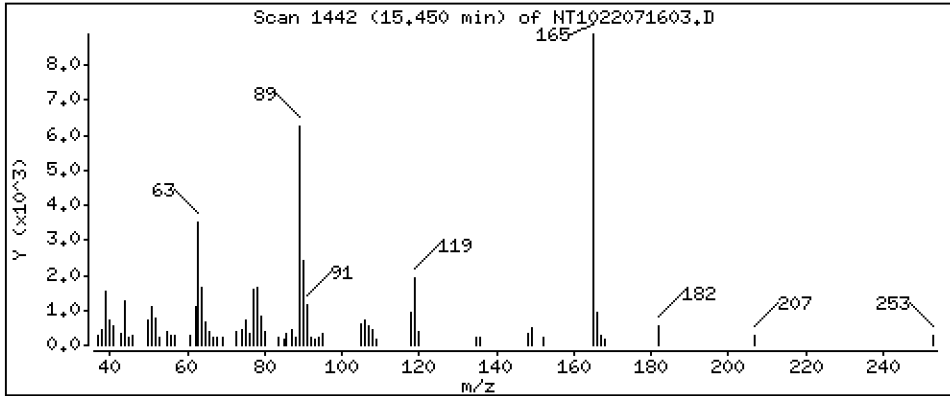
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.1824 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

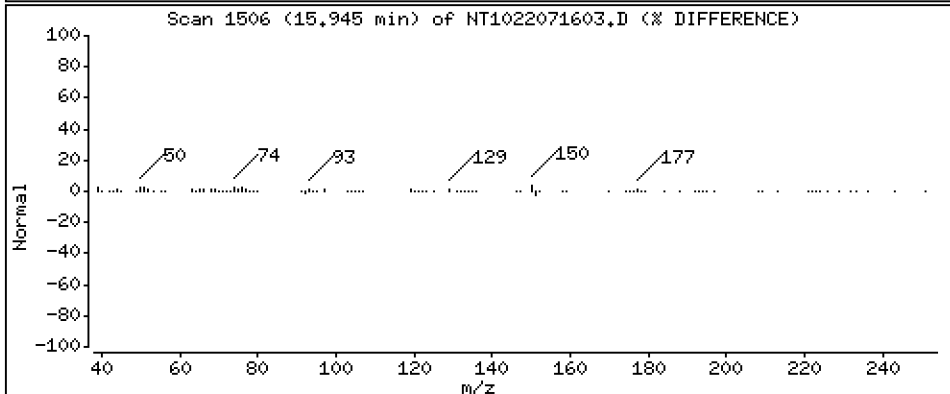
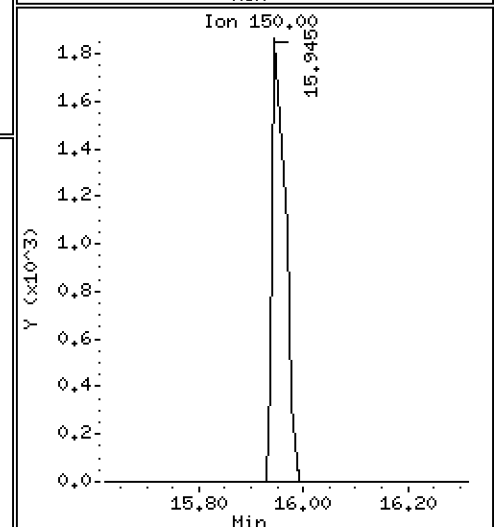
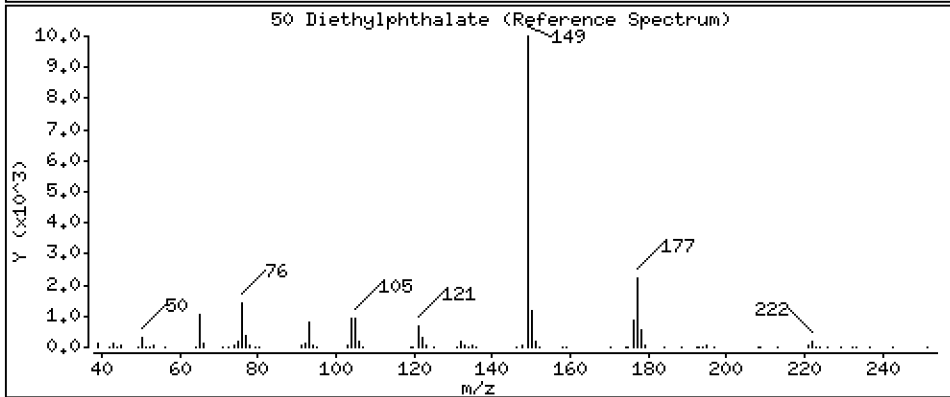
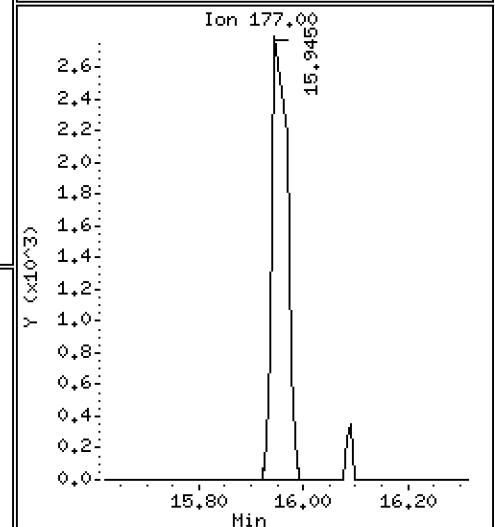
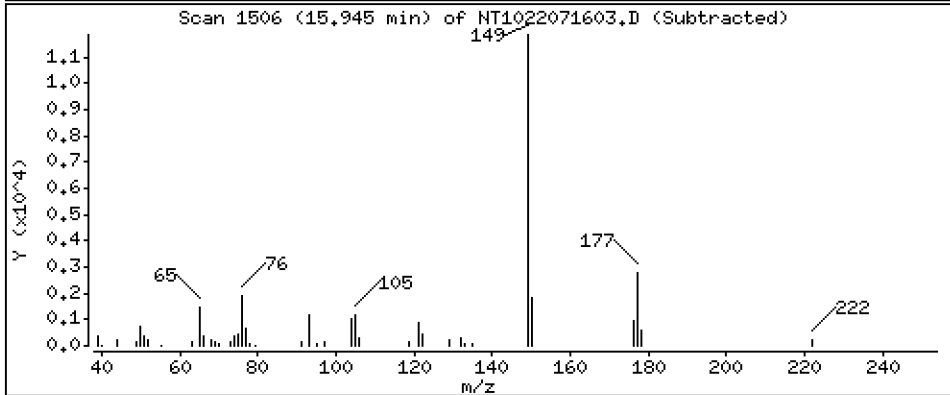
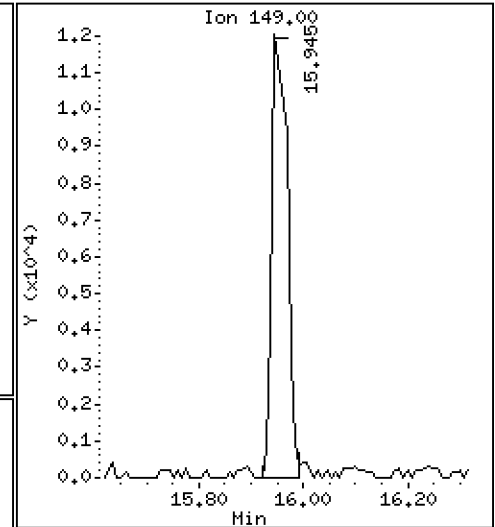
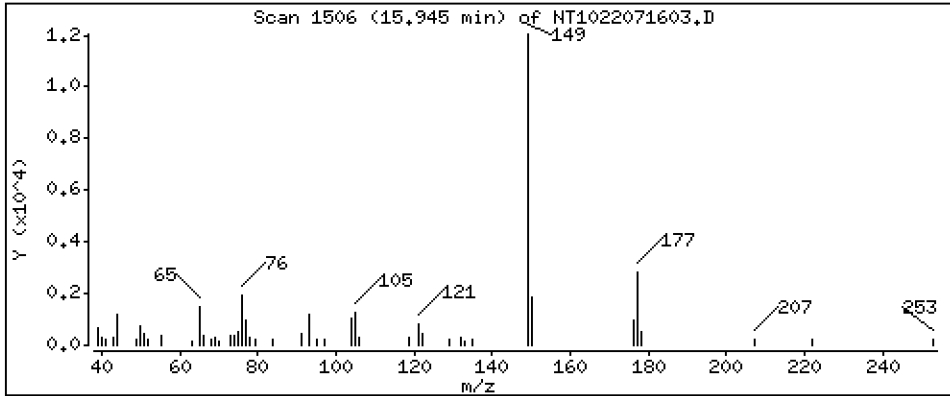
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,08009 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

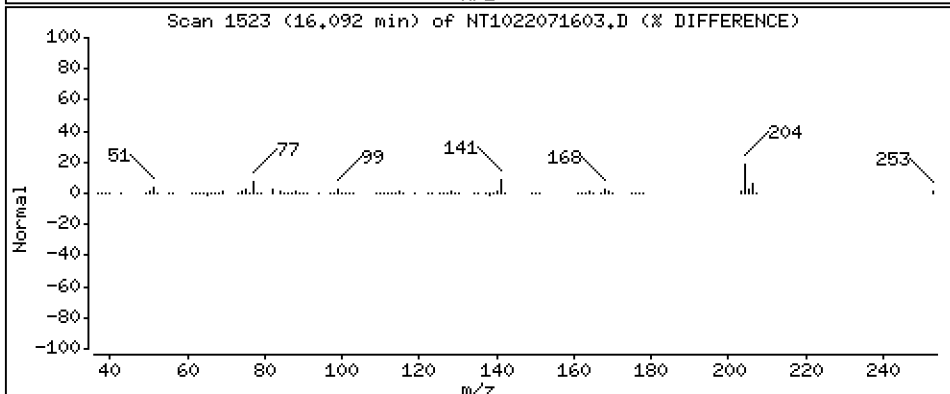
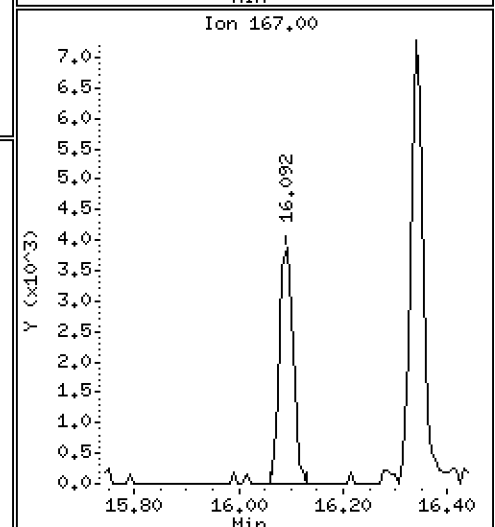
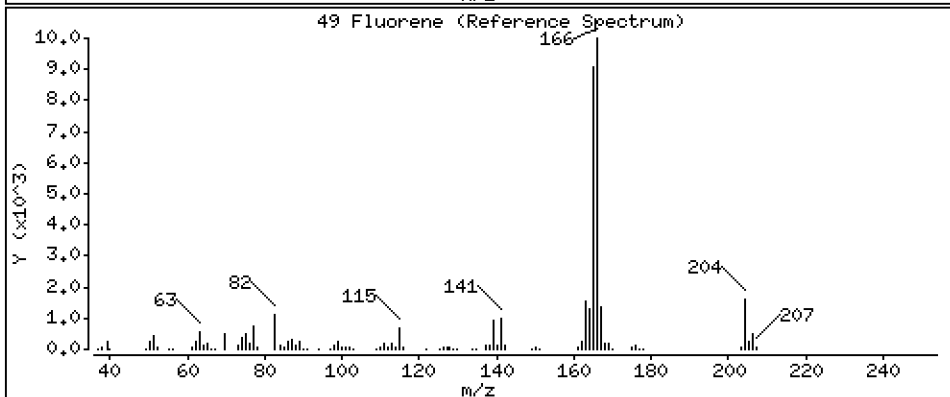
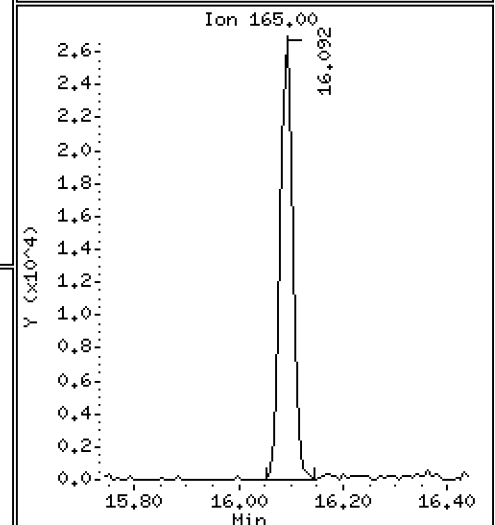
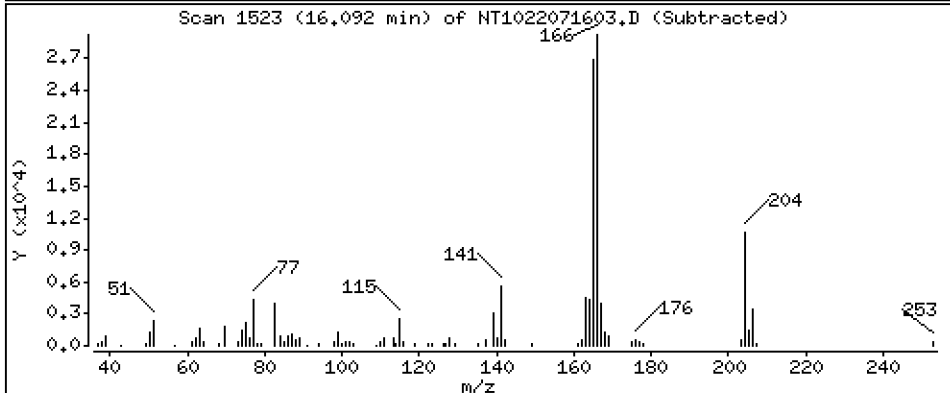
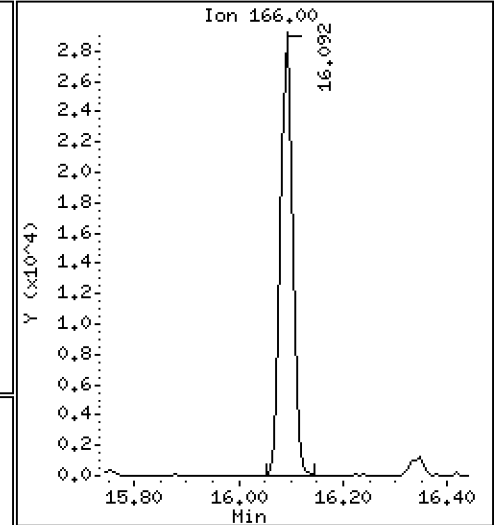
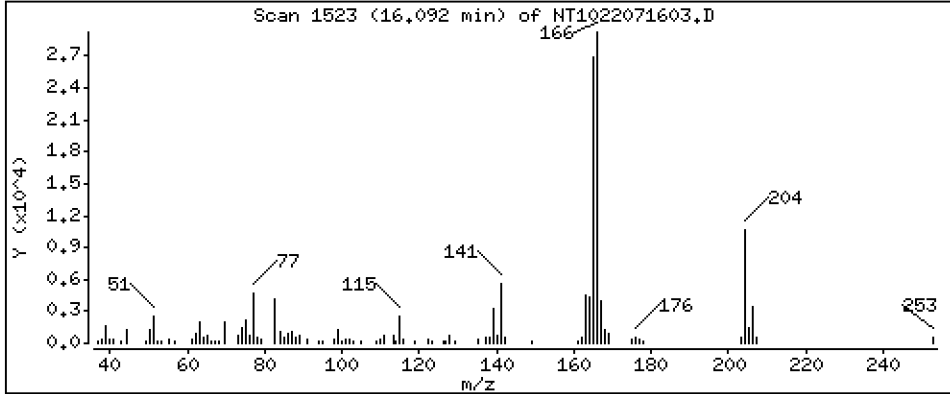
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,1059 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

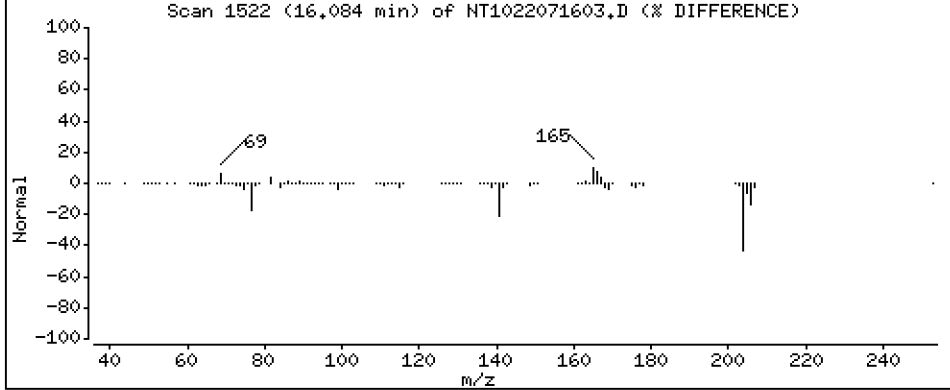
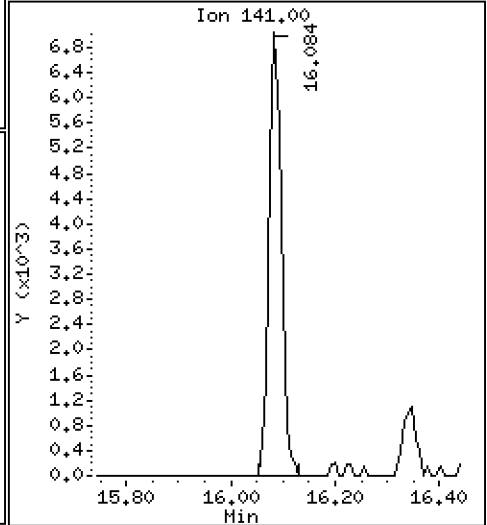
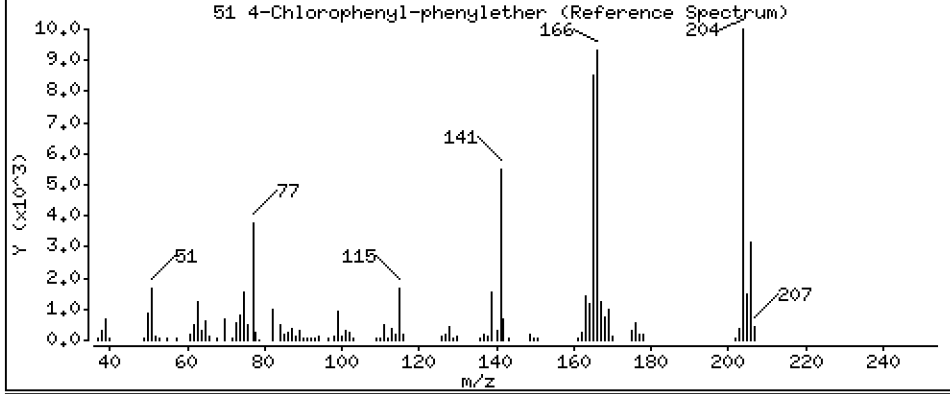
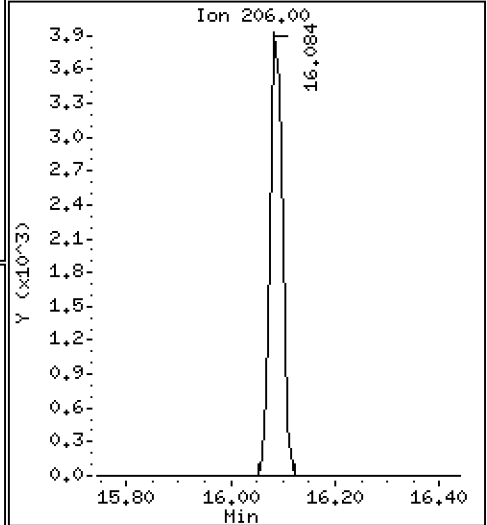
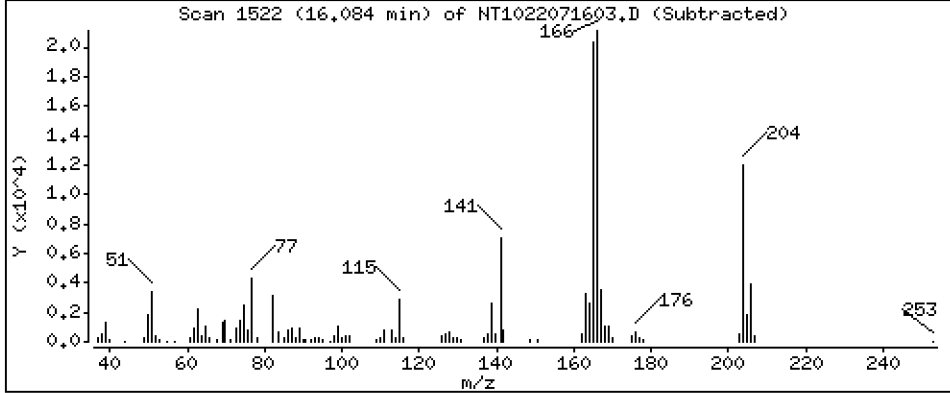
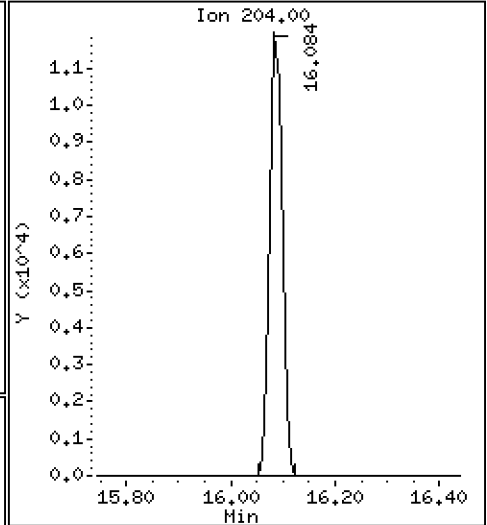
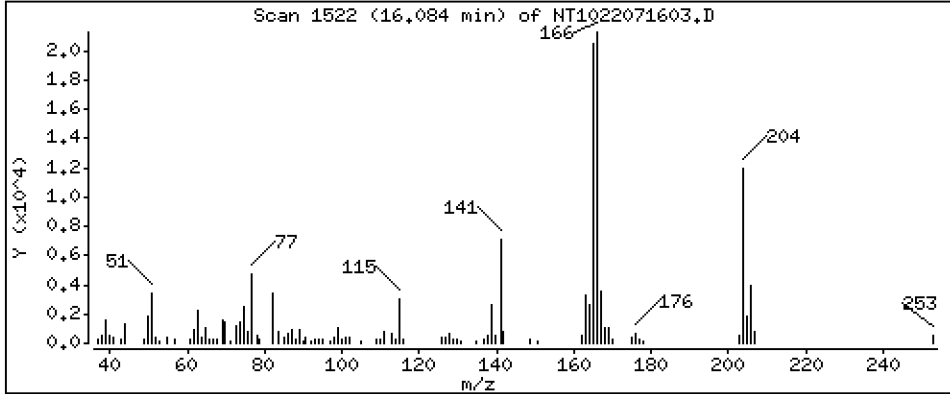
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,1032 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

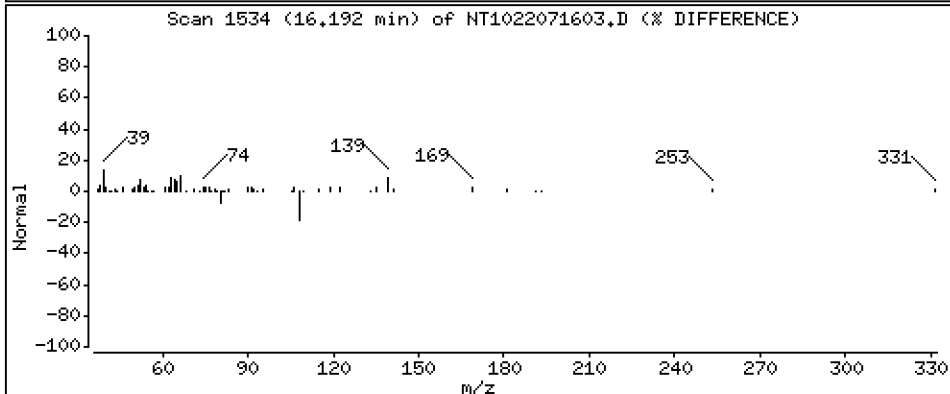
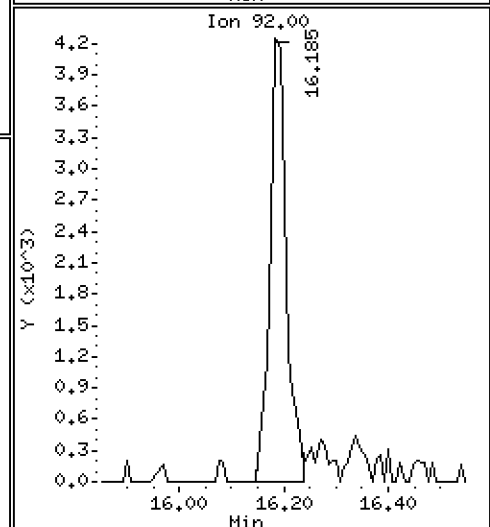
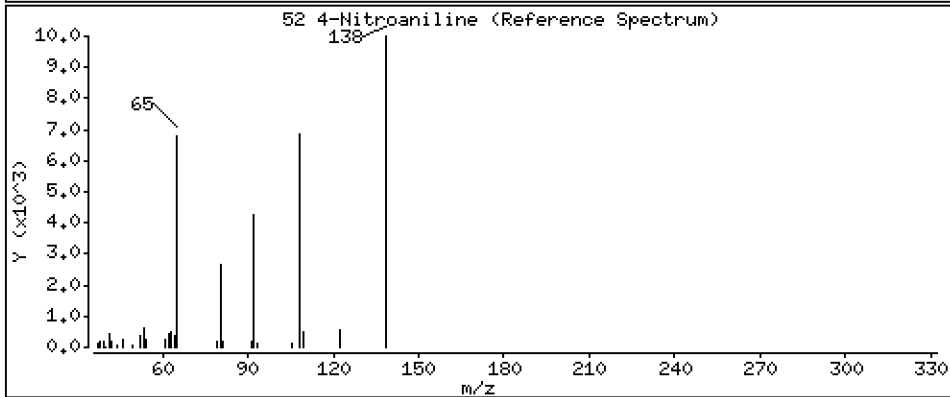
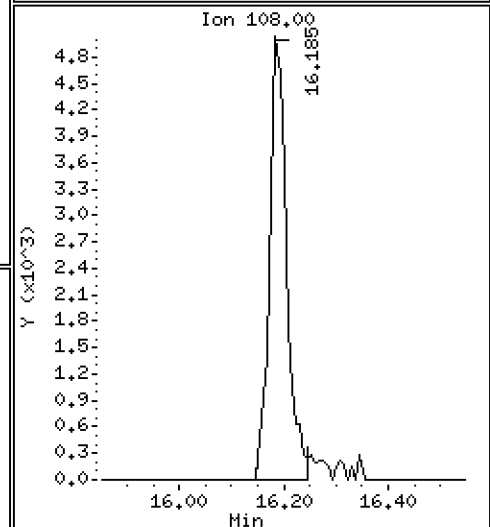
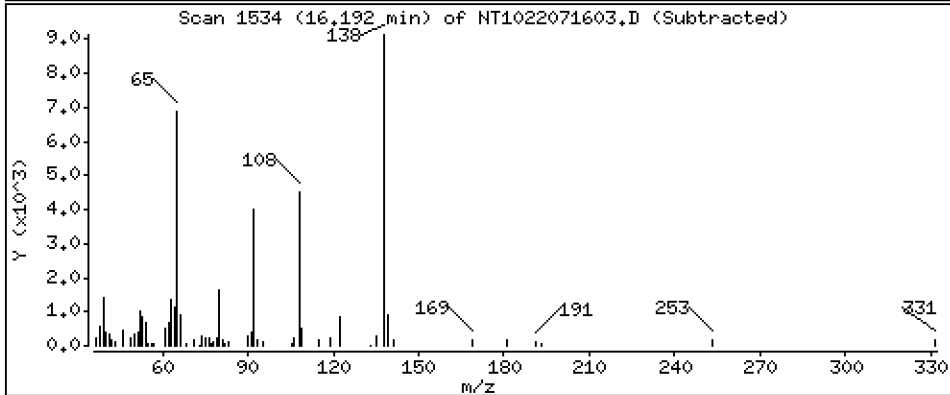
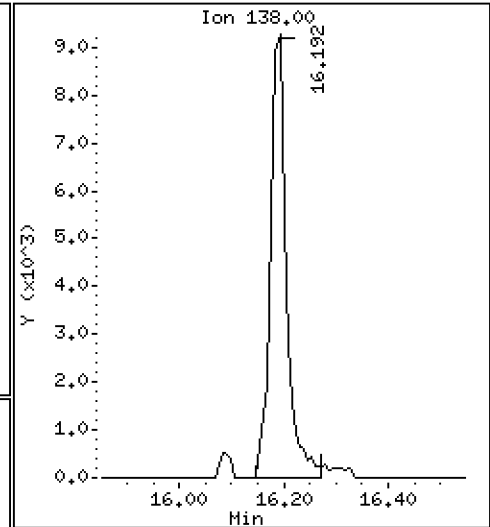
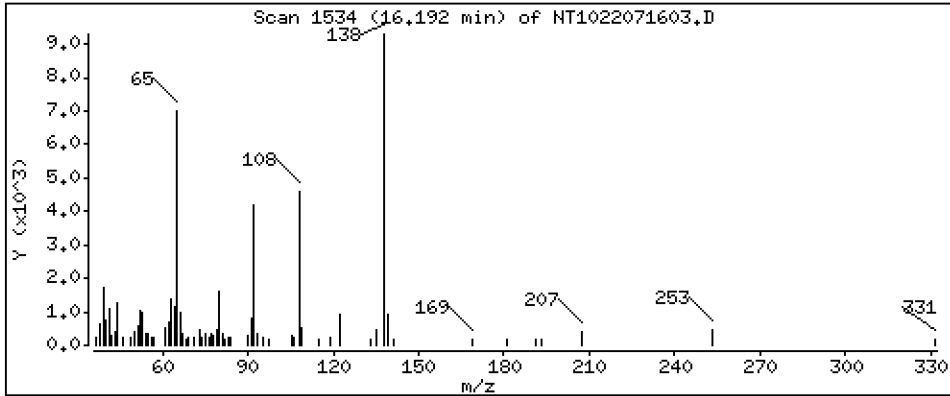
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2801 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

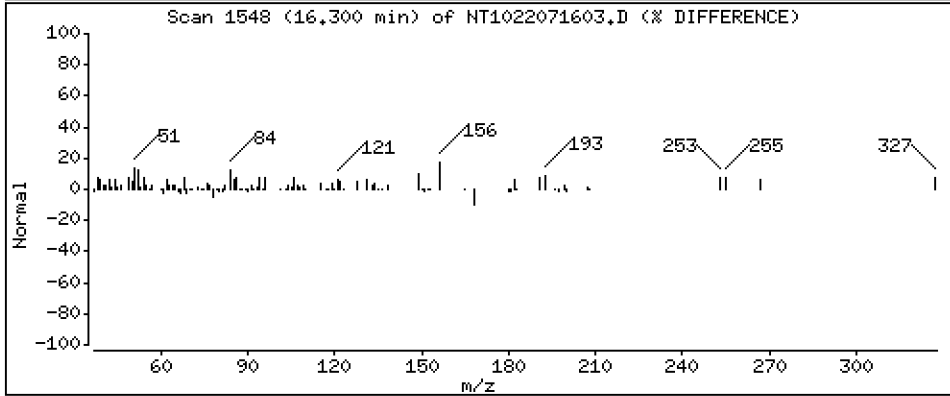
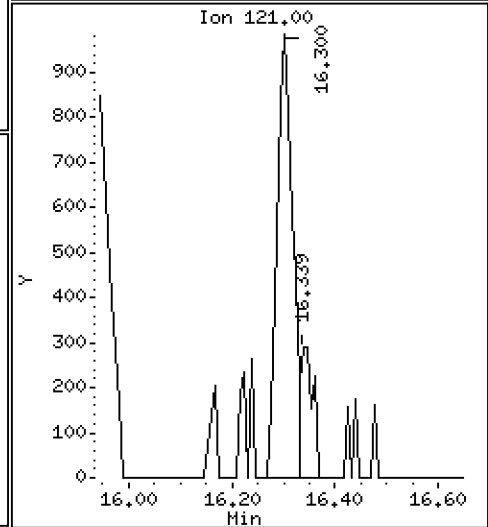
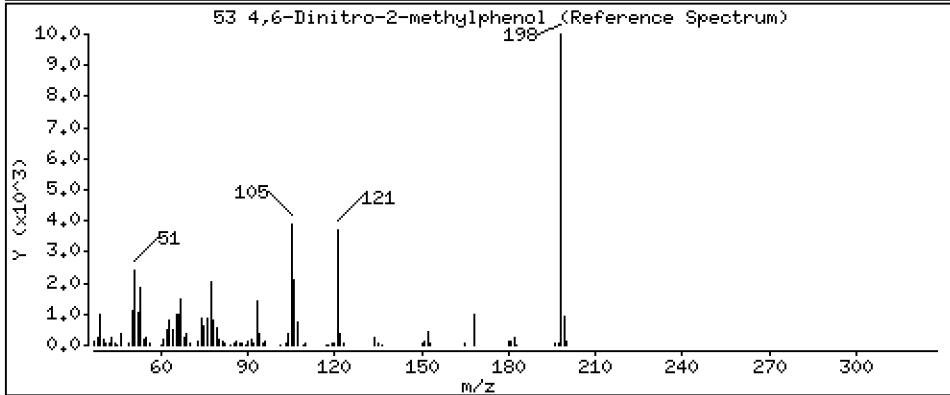
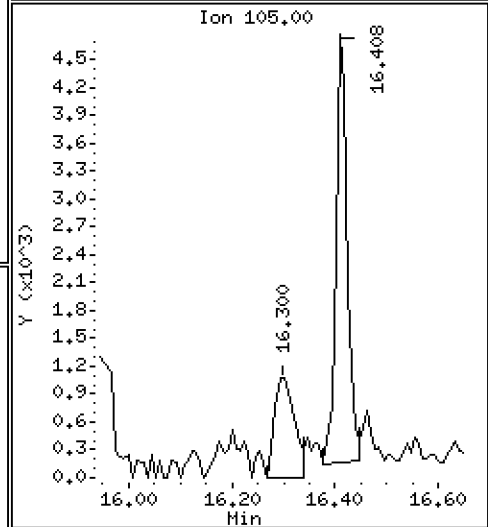
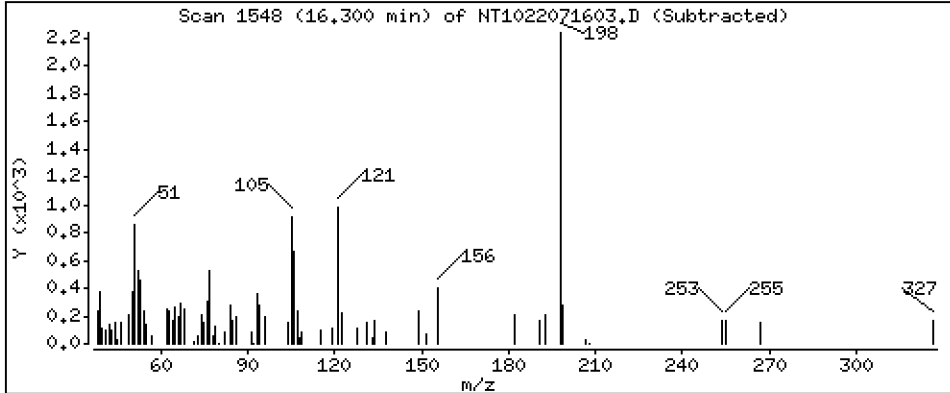
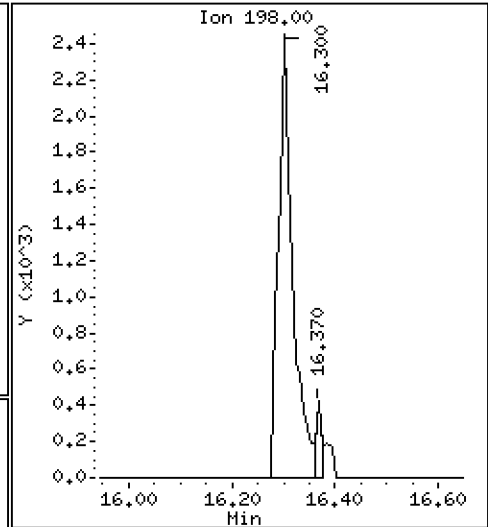
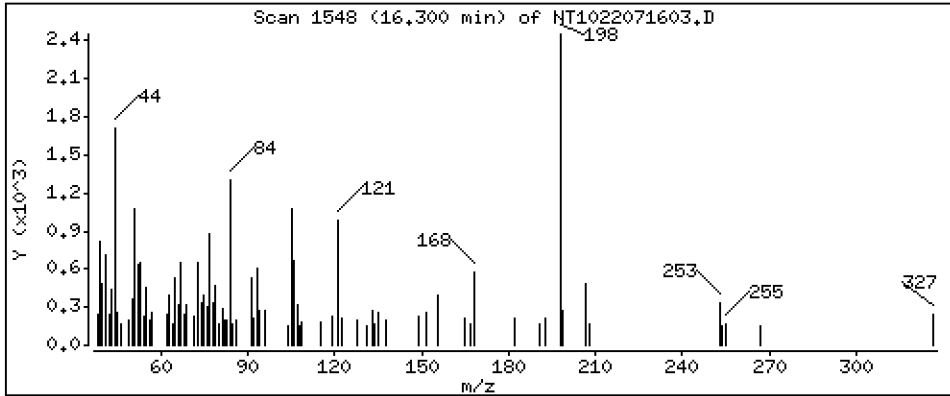
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,1356 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

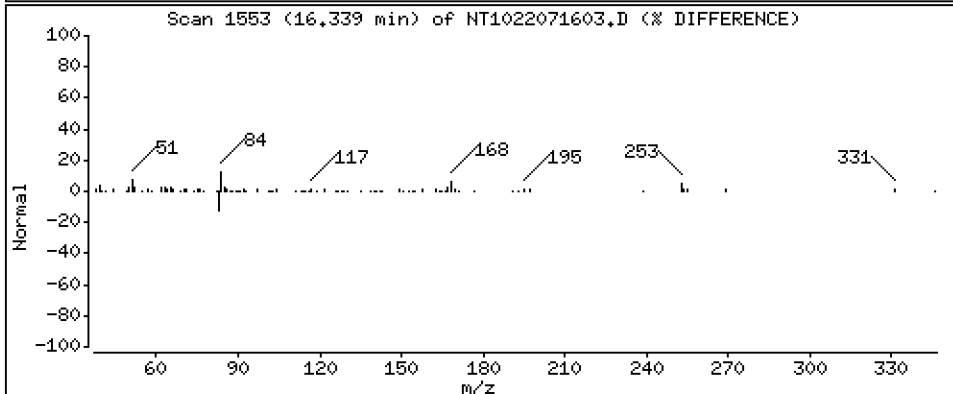
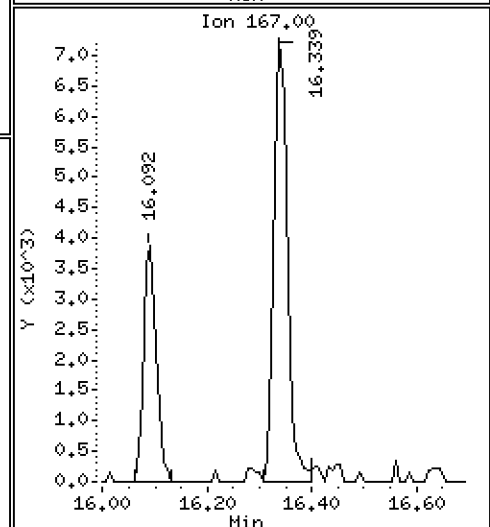
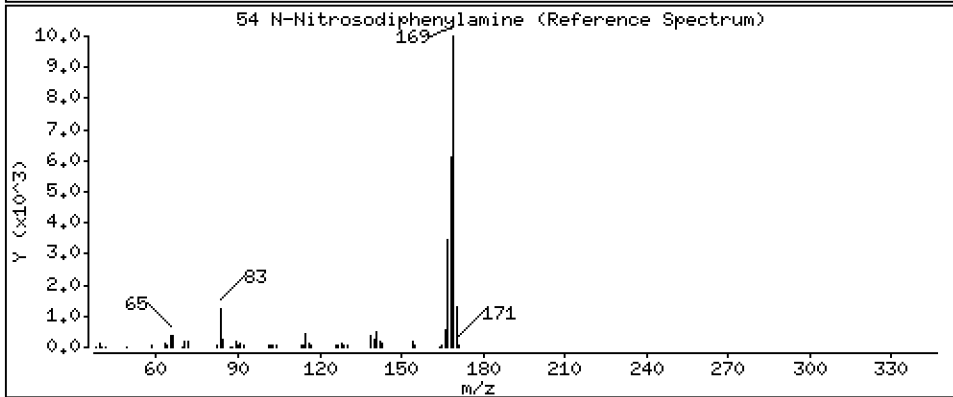
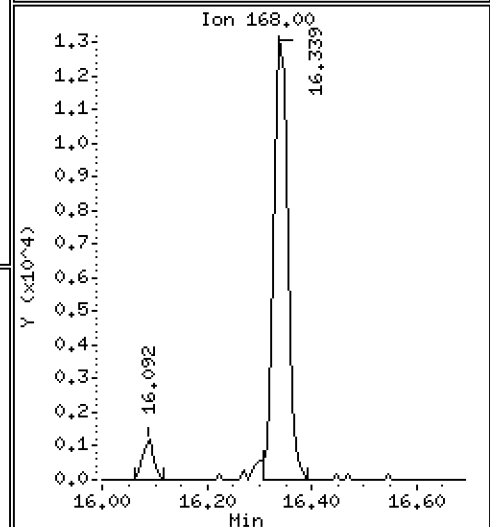
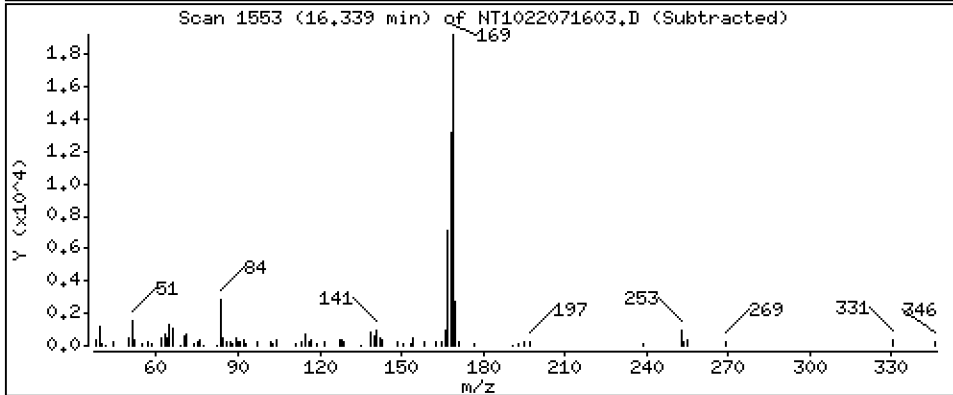
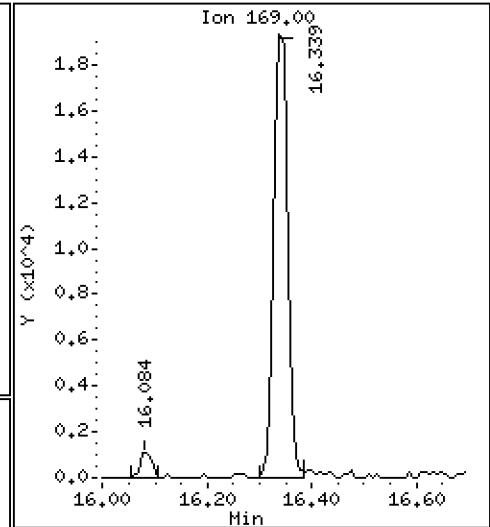
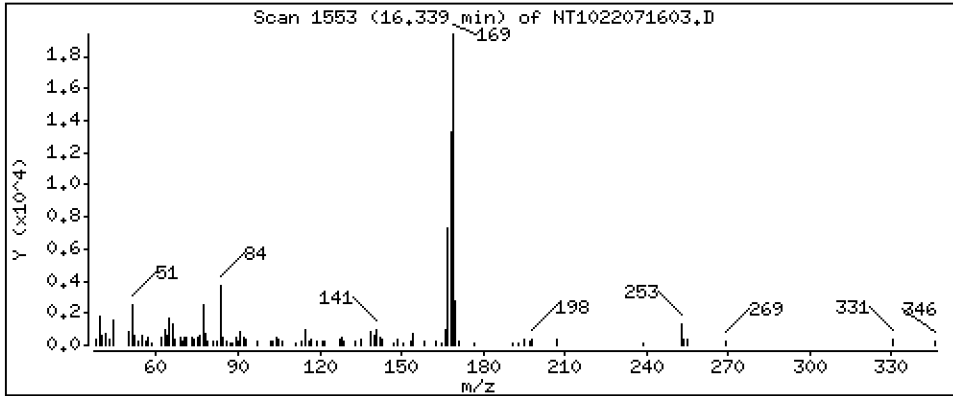
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2484 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

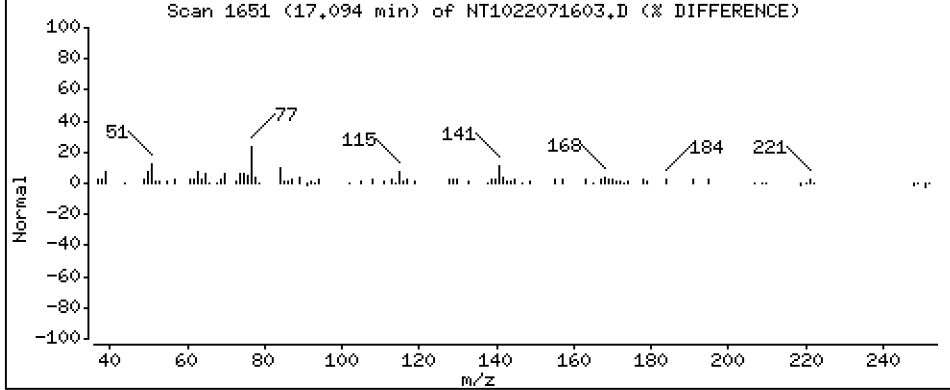
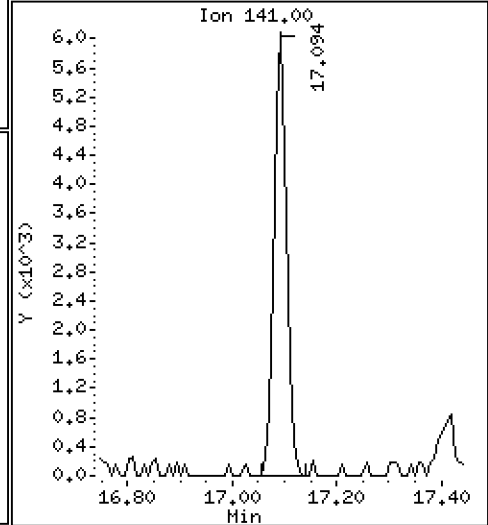
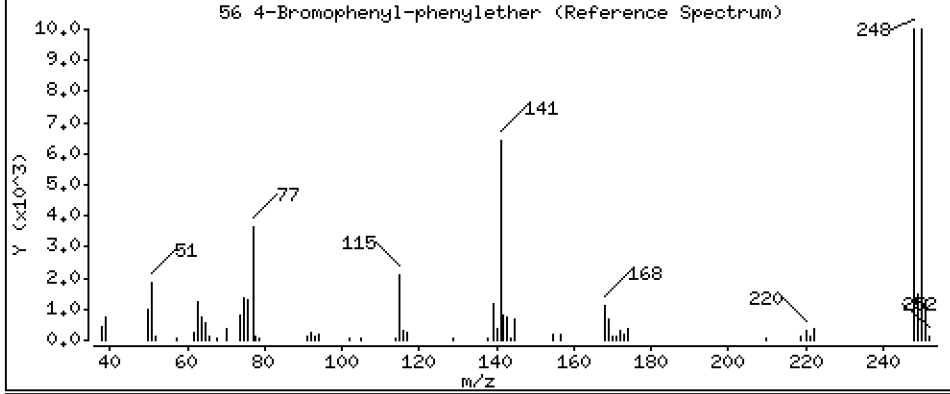
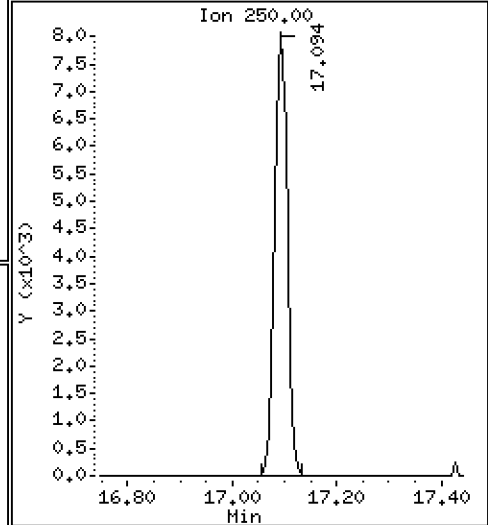
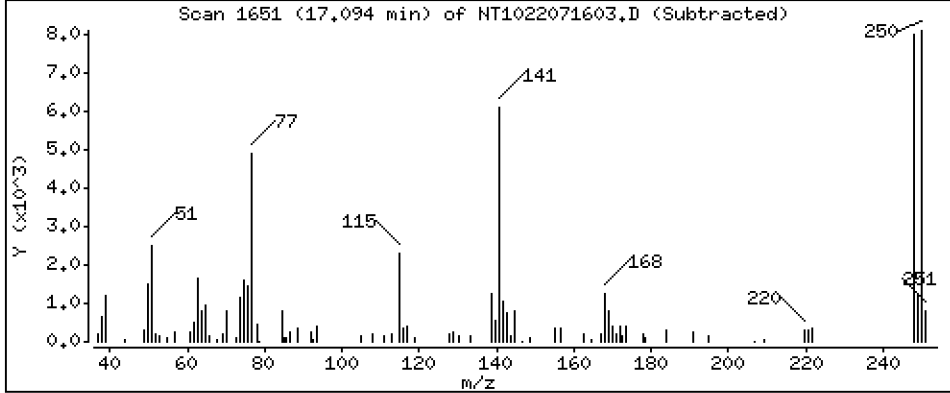
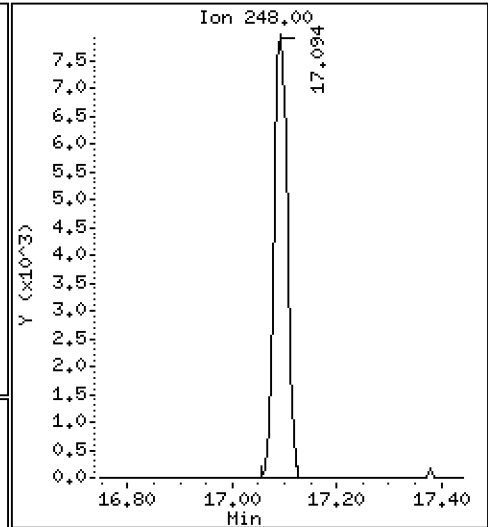
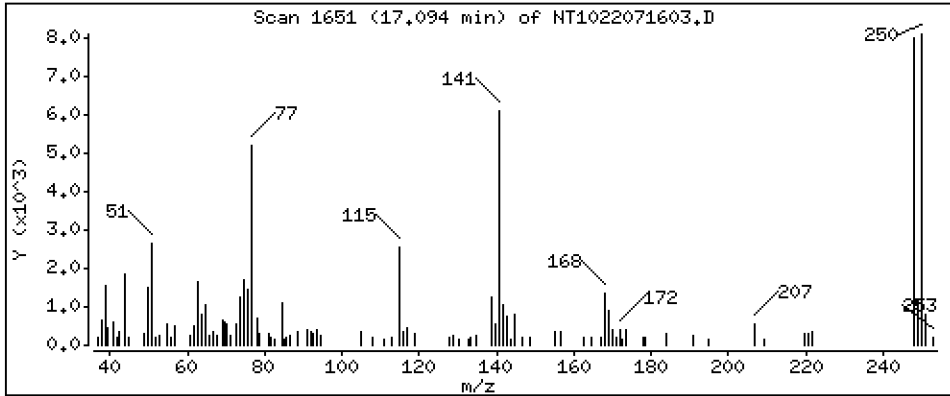
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2078 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

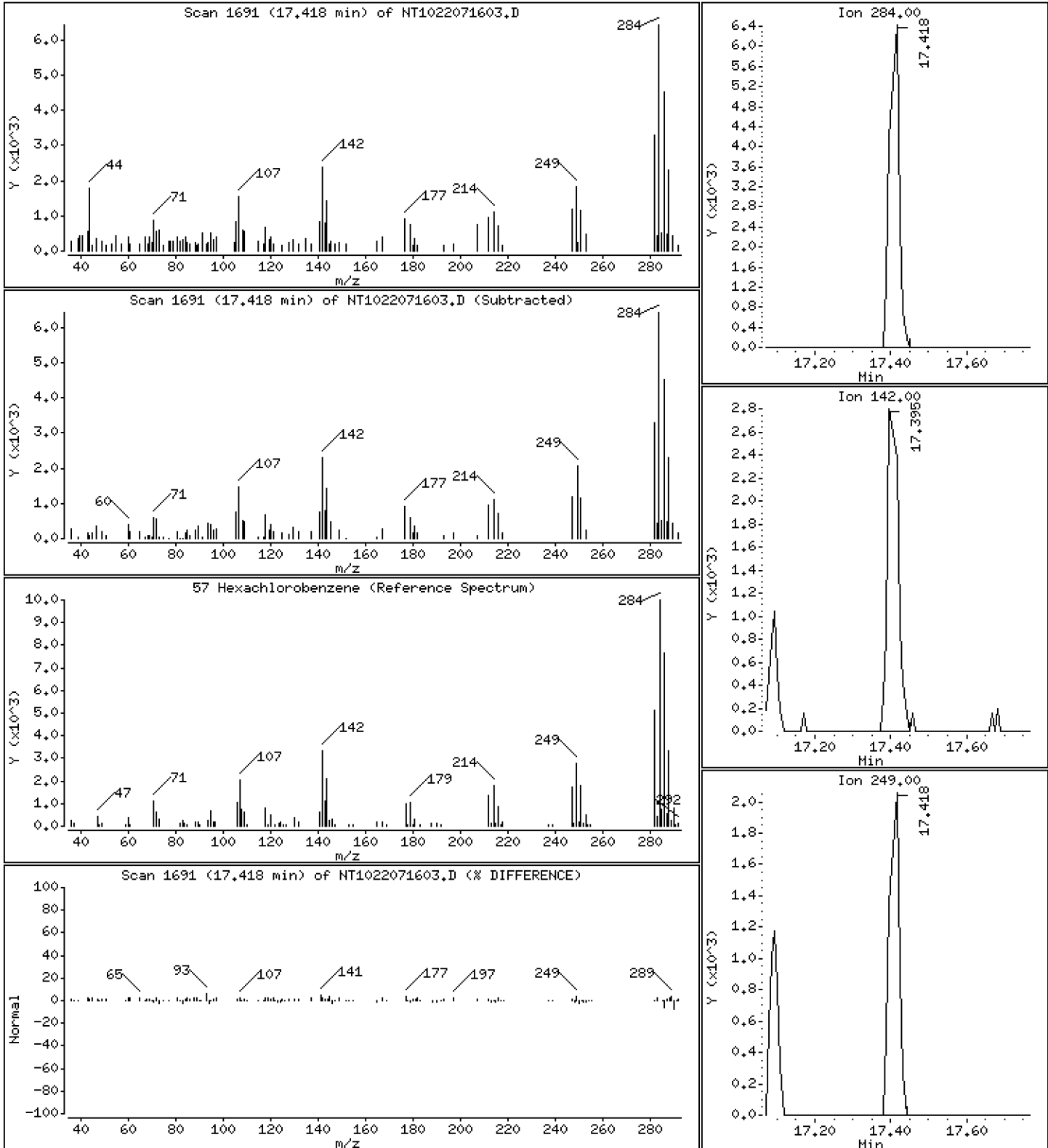
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,1484 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

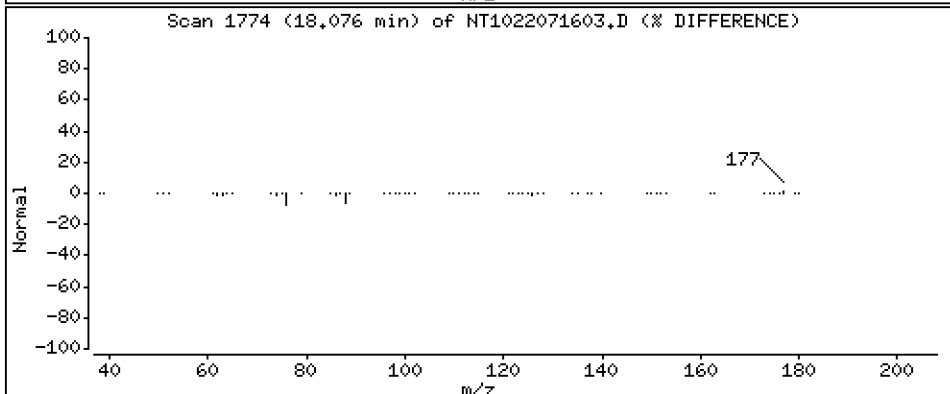
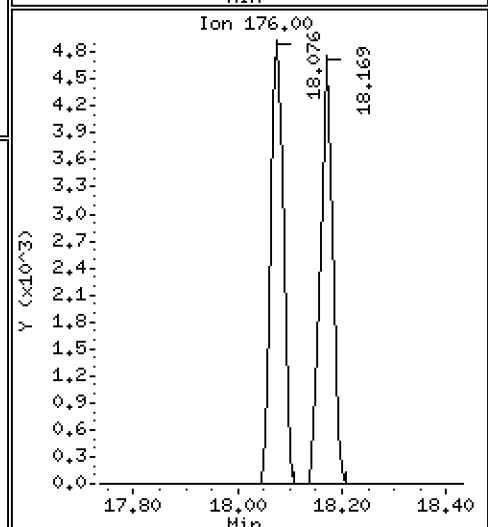
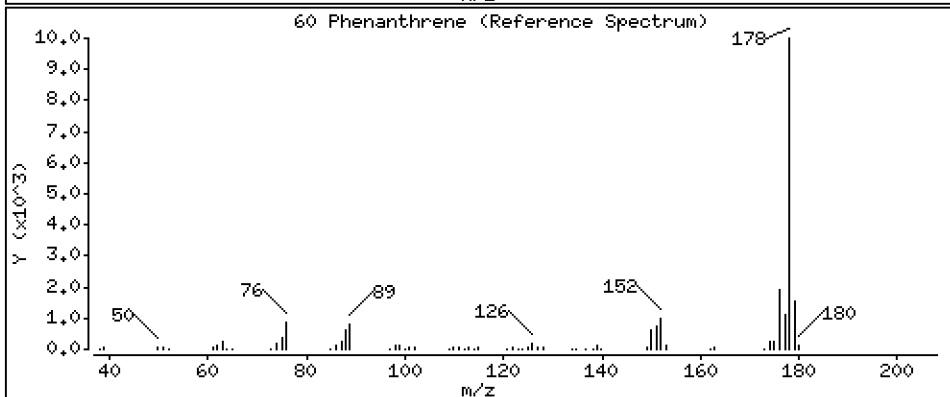
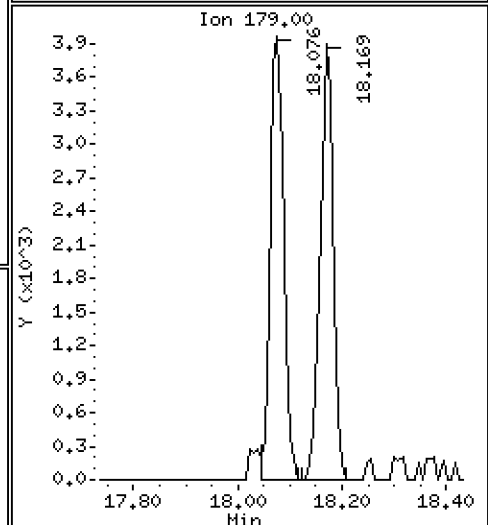
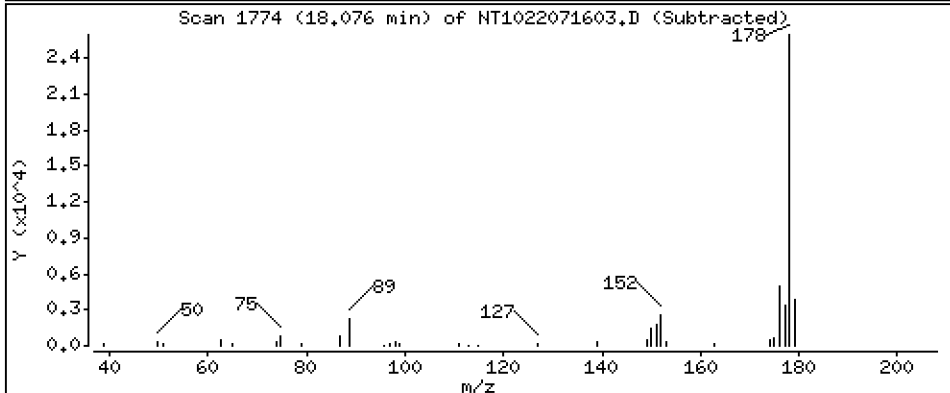
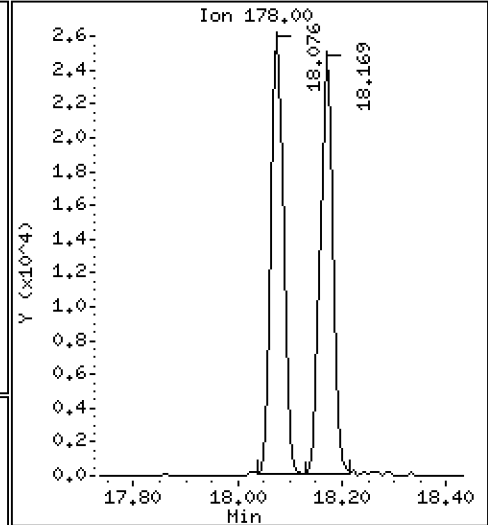
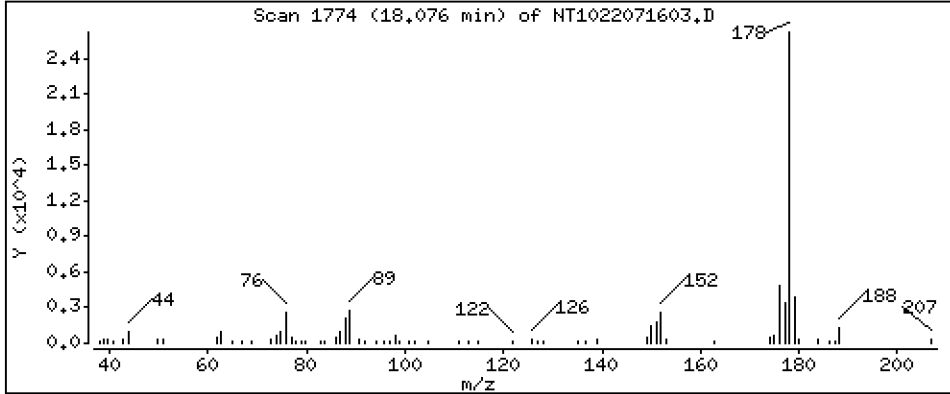
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,1795 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

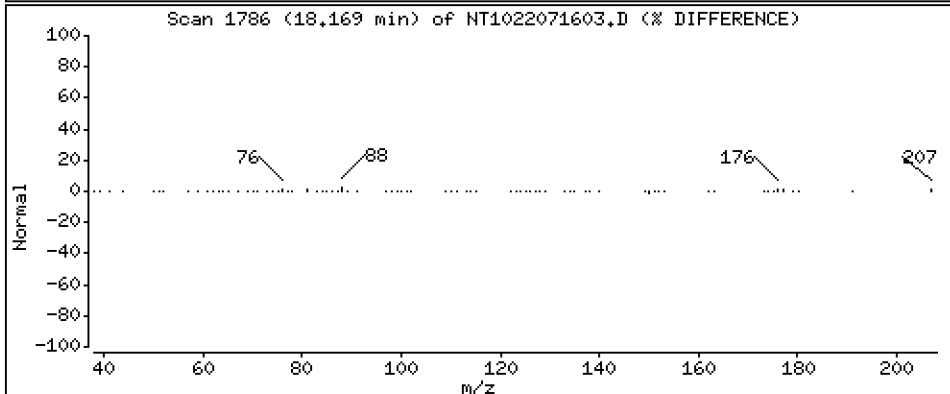
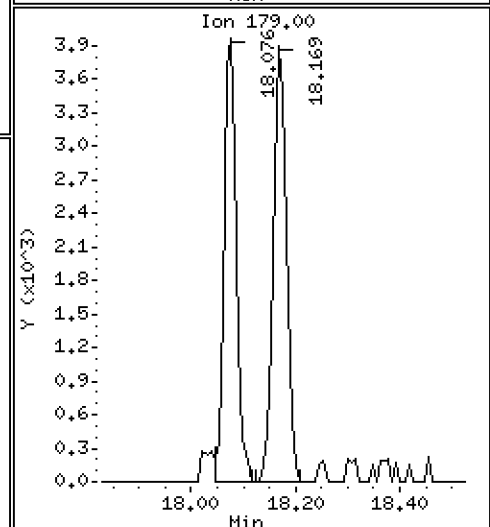
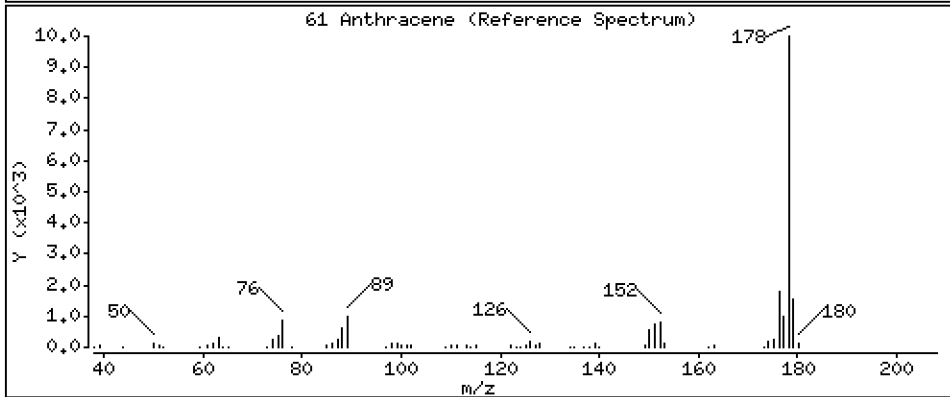
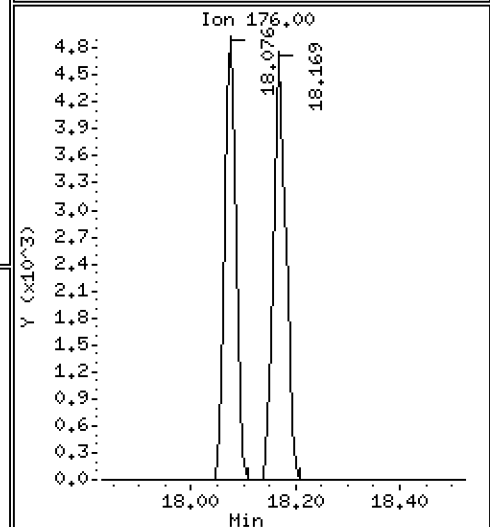
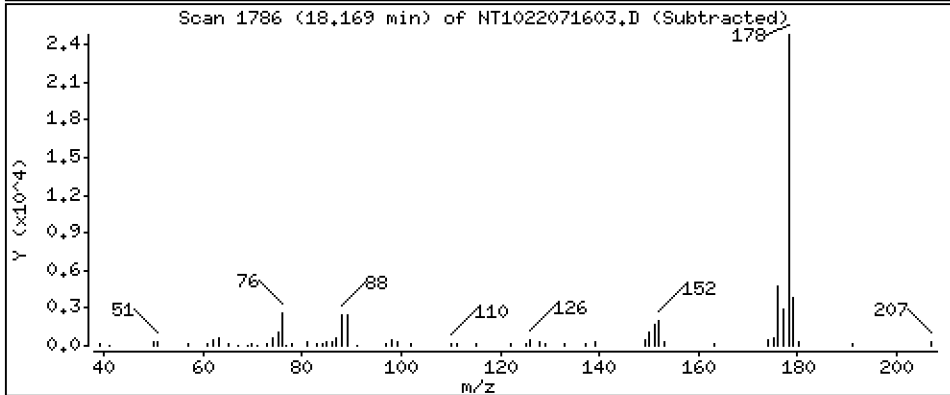
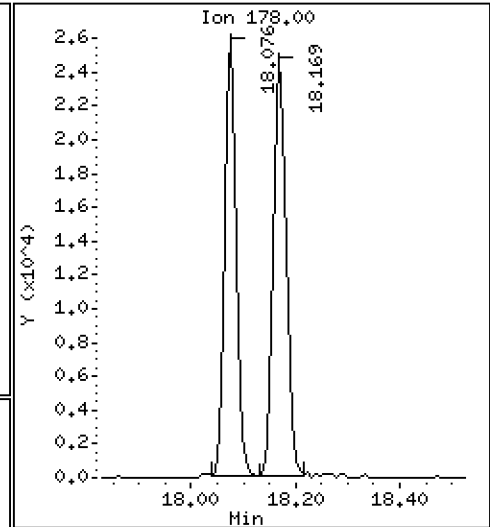
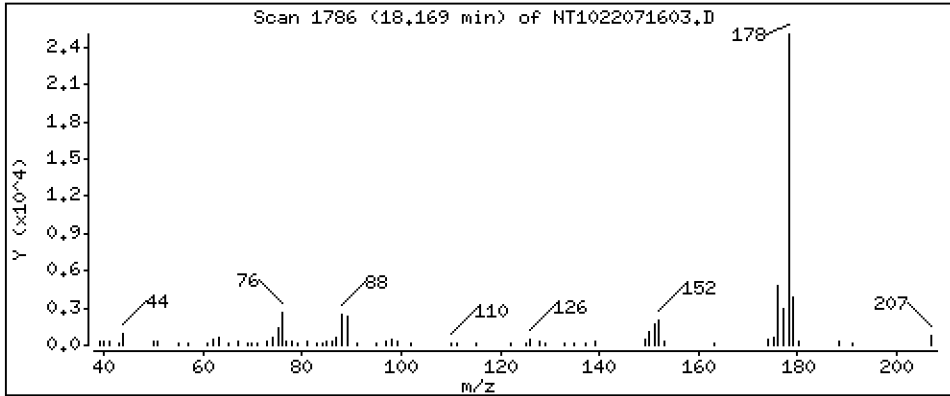
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 0.1679 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

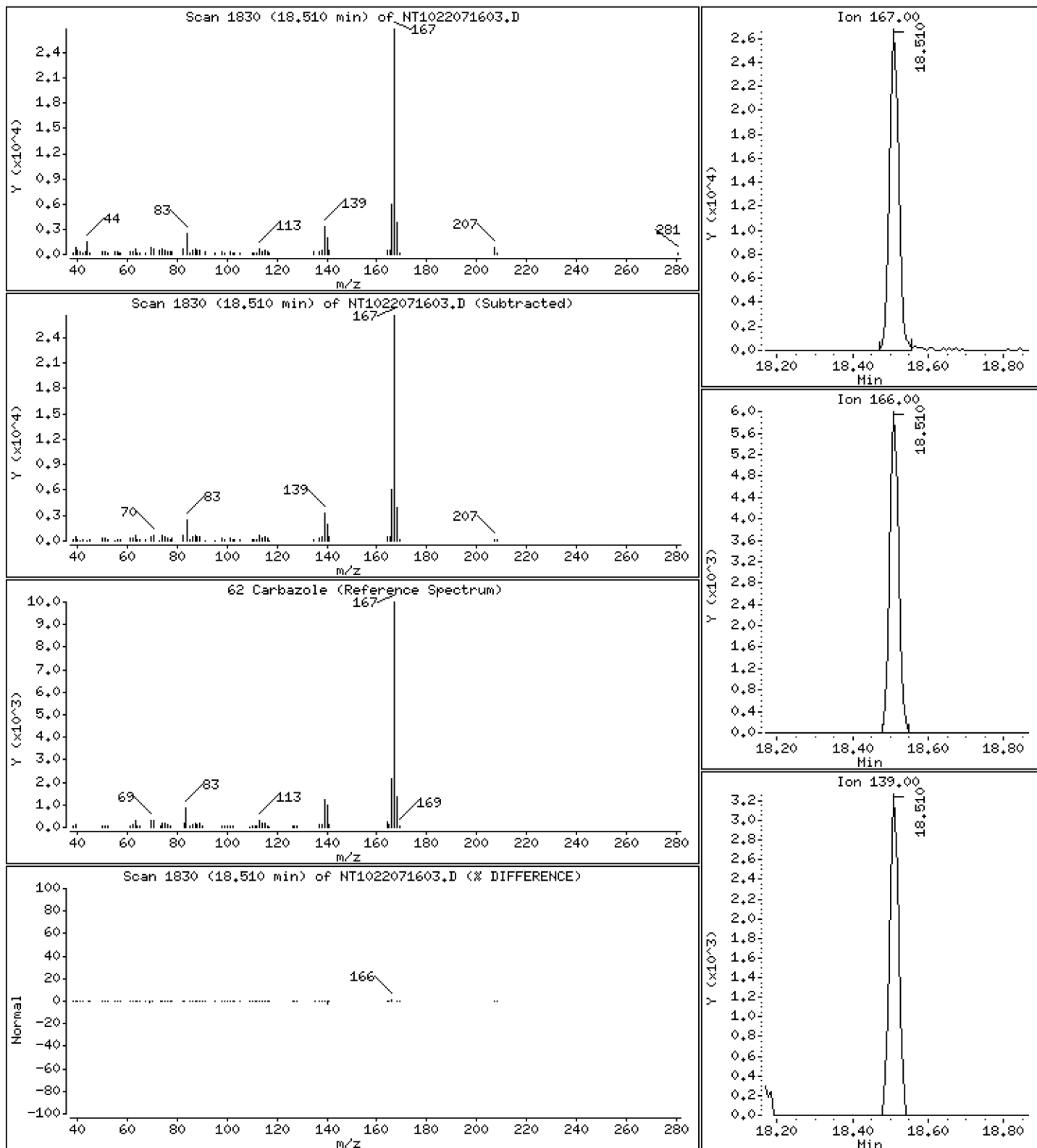
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1895 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

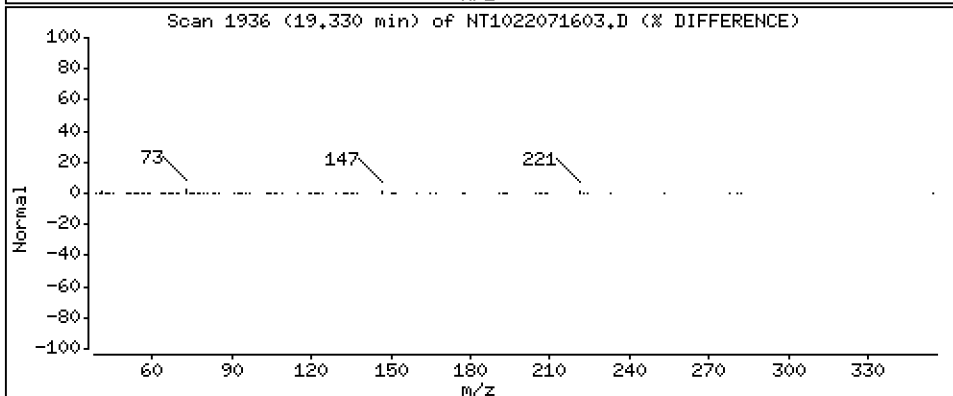
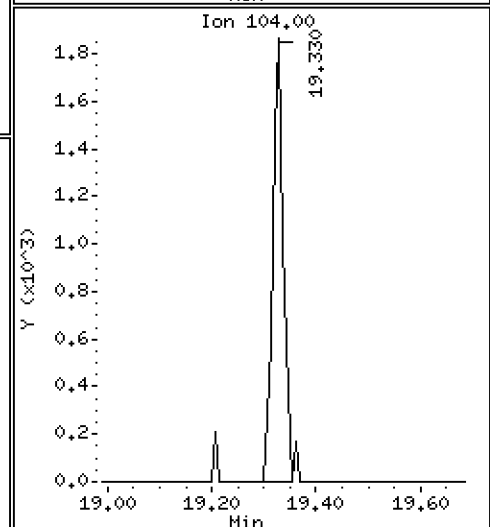
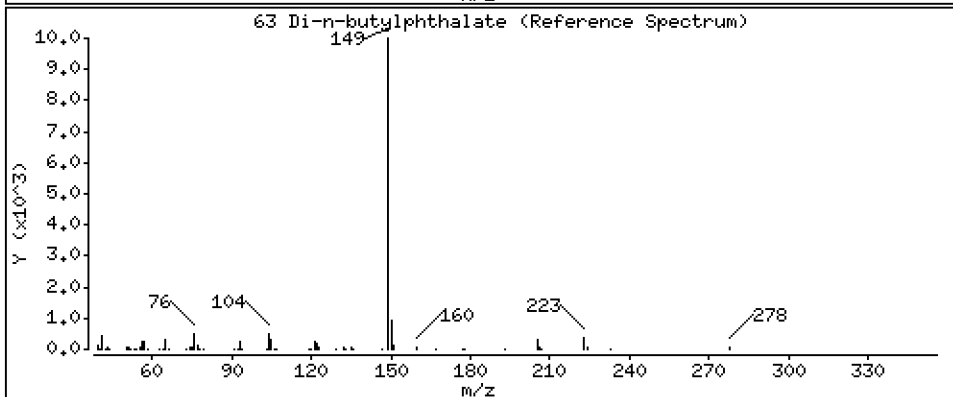
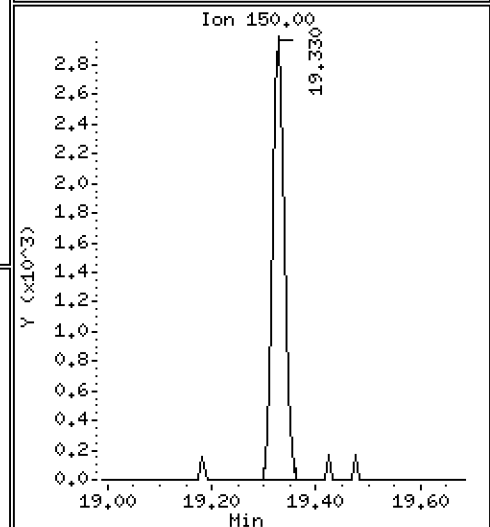
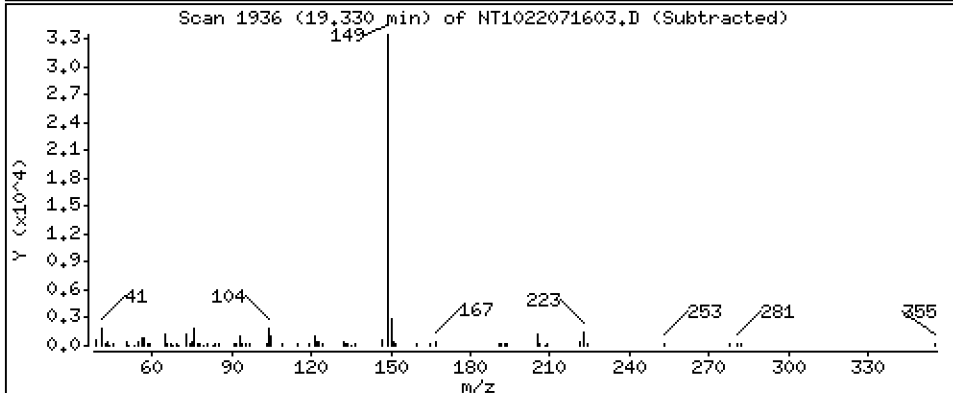
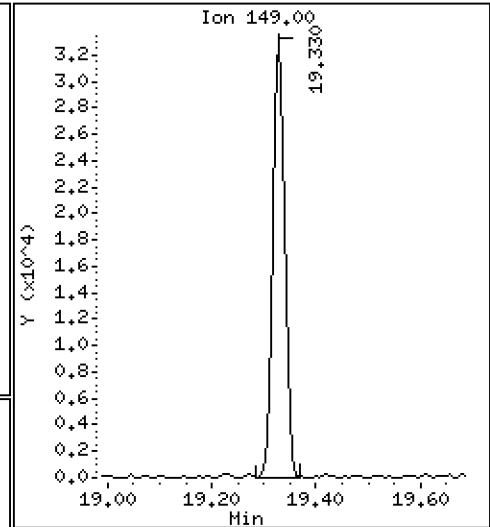
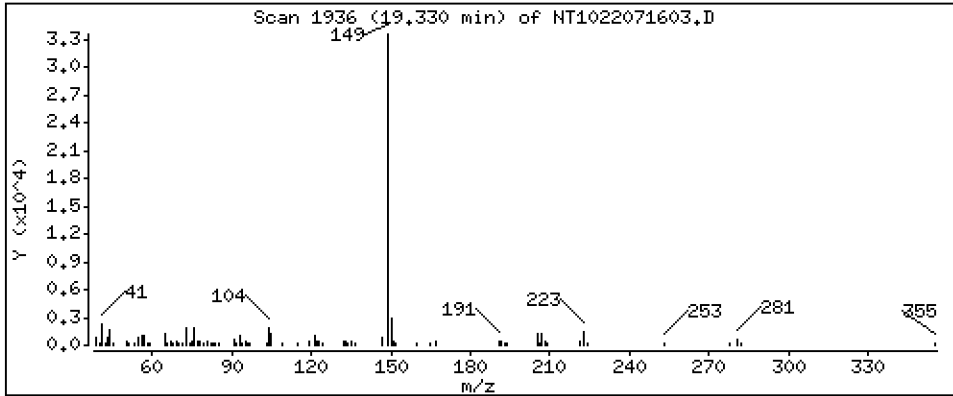
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1535 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

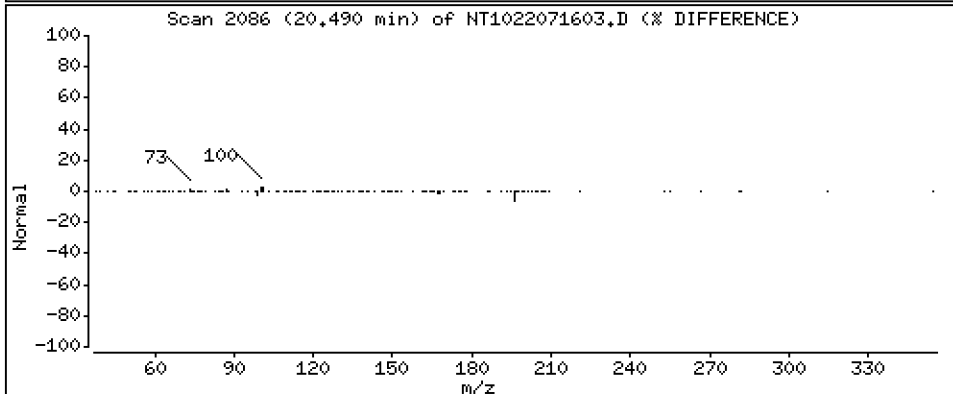
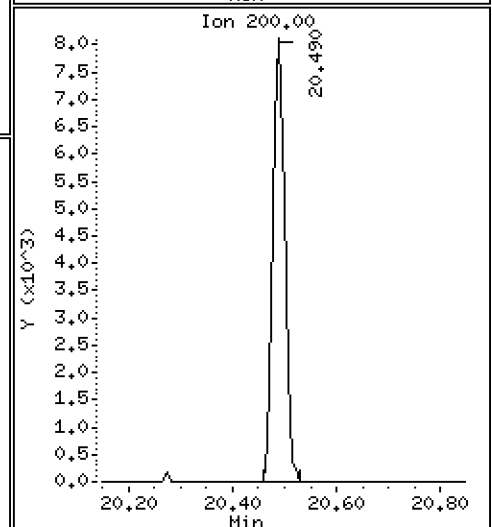
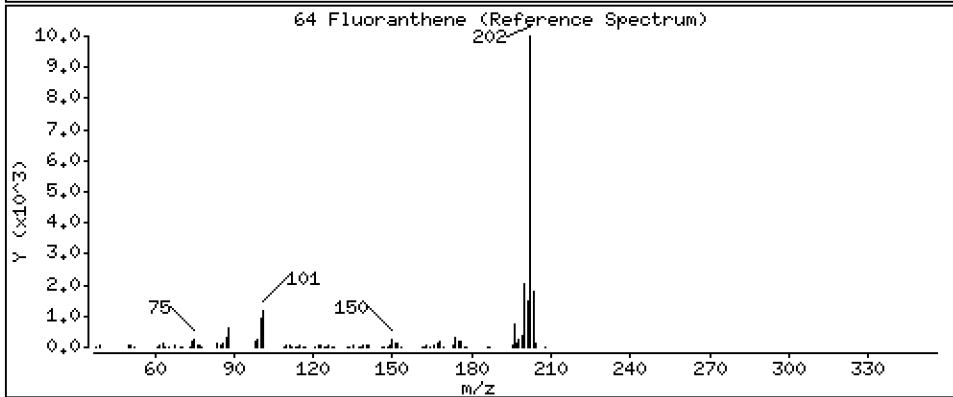
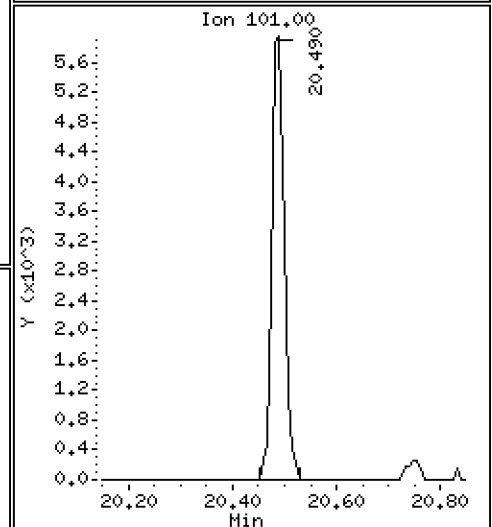
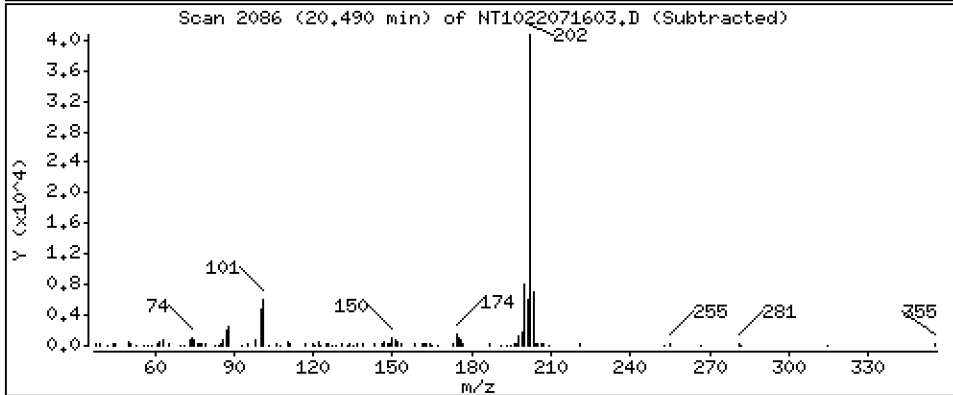
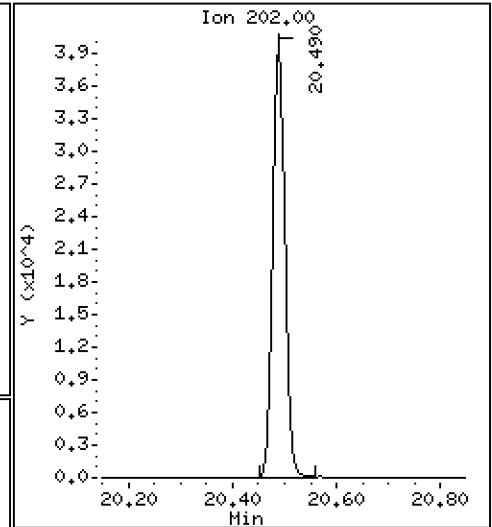
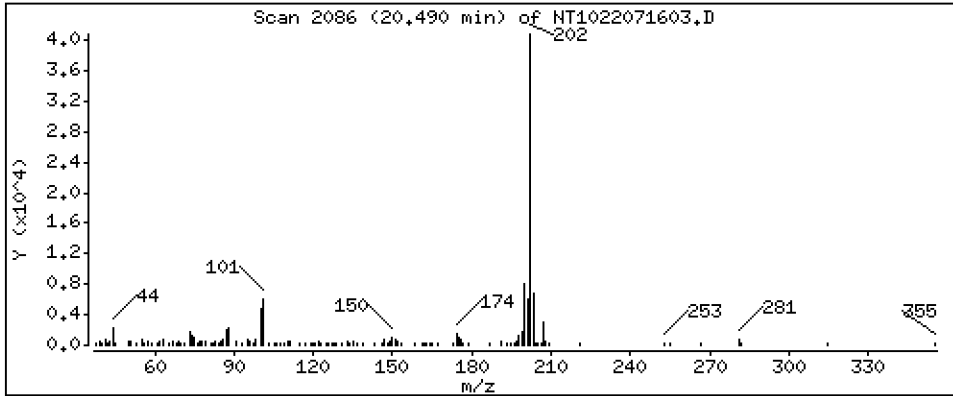
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,1828 ug/mL

64 Fluoranthene



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

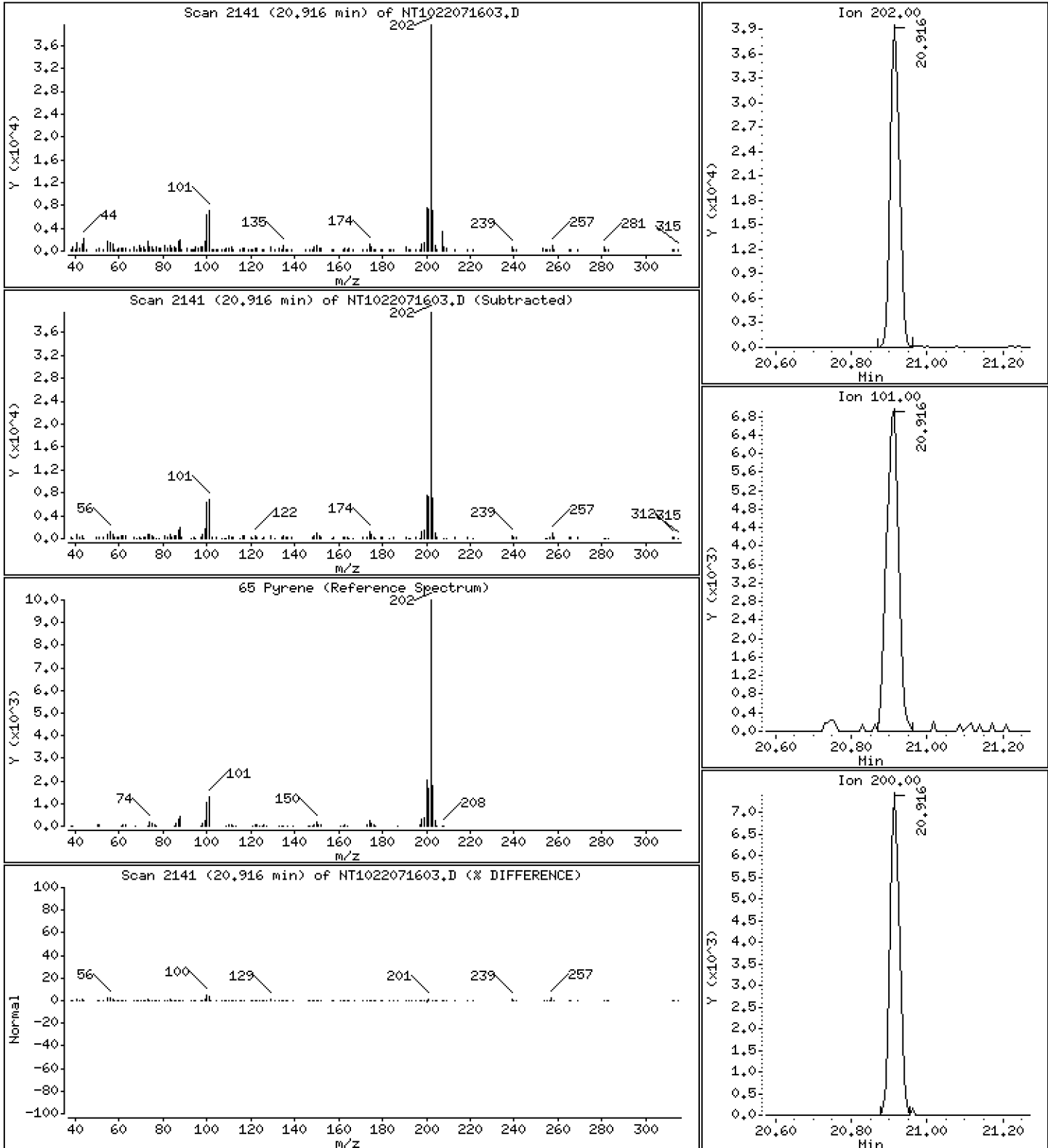
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,2235 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

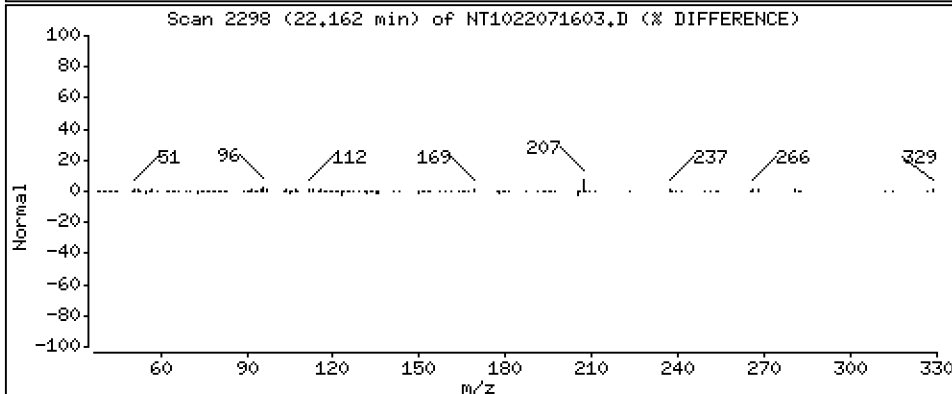
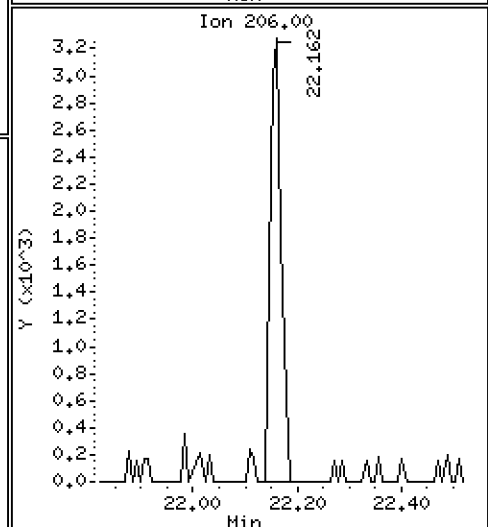
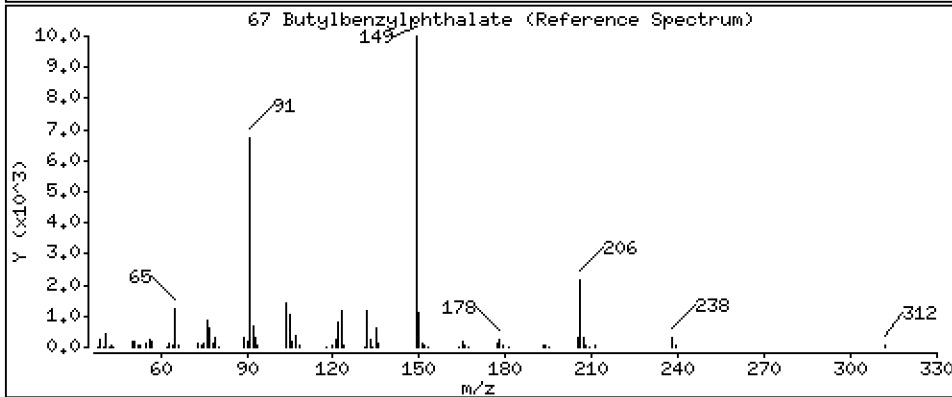
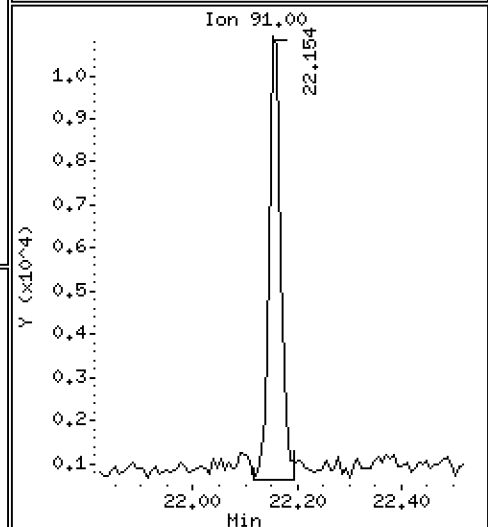
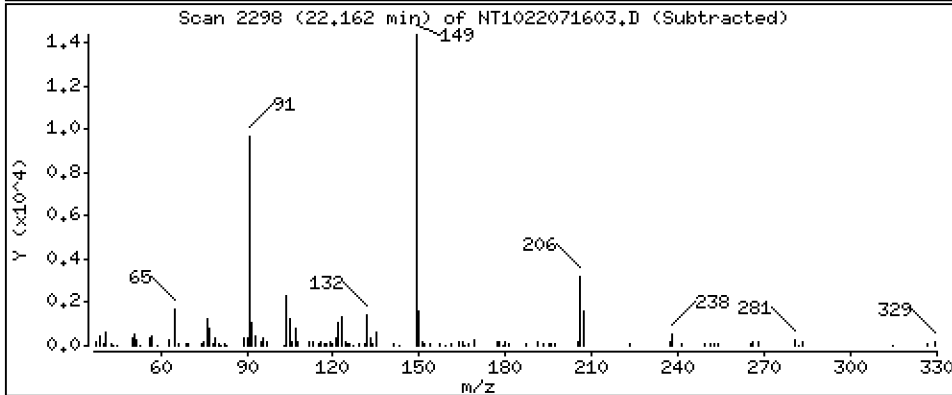
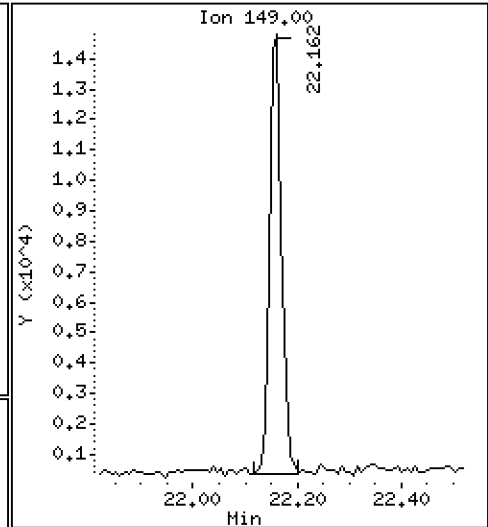
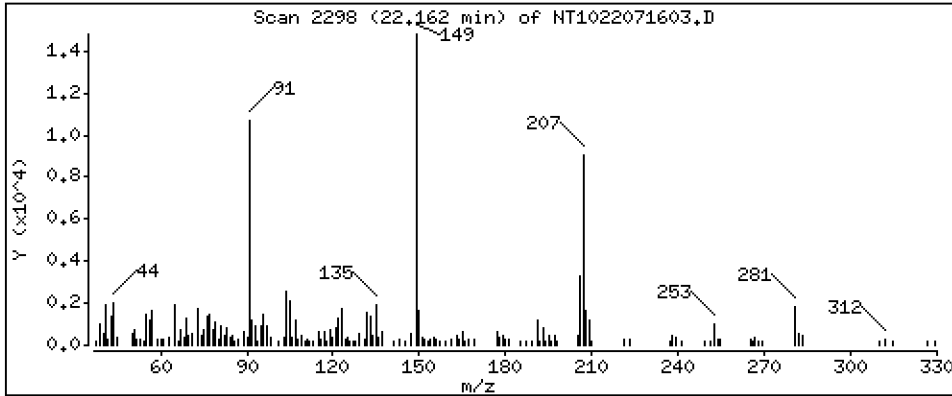
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,2375 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

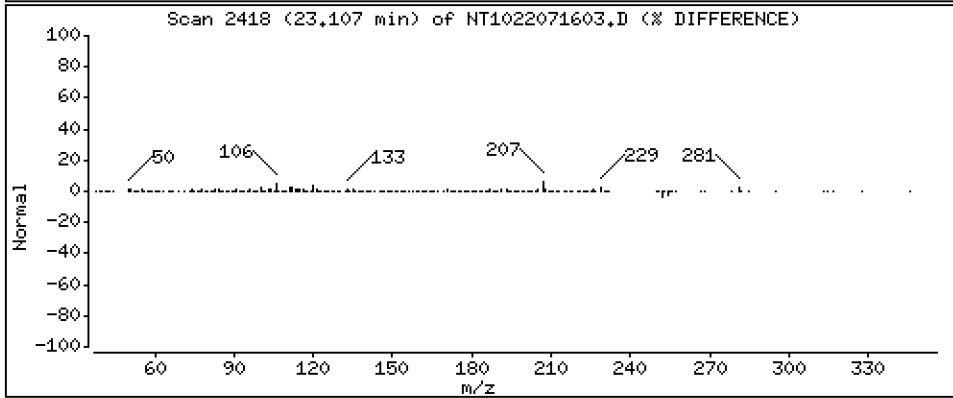
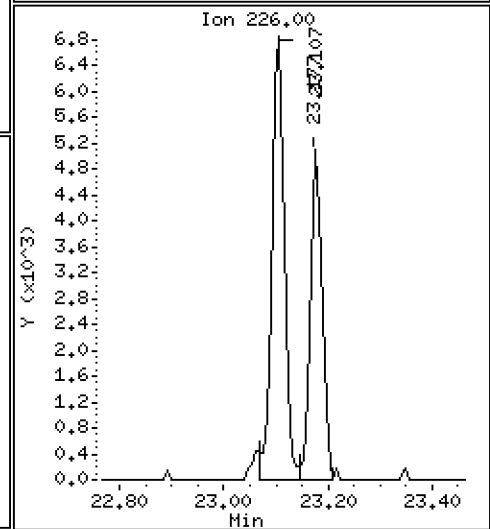
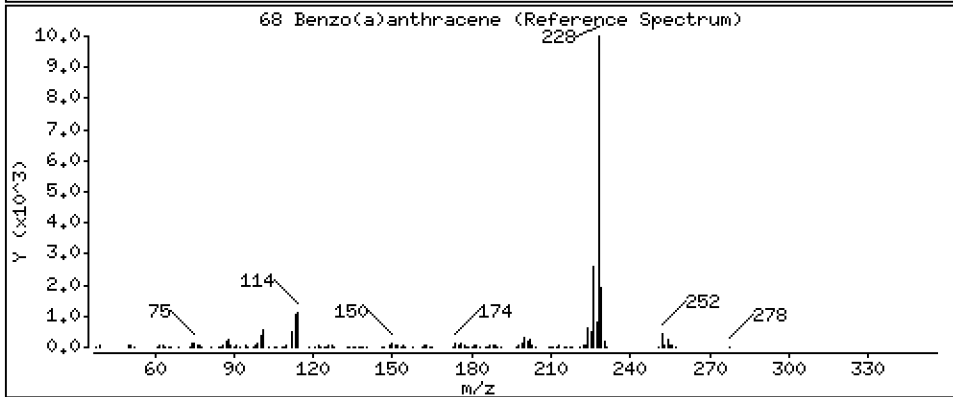
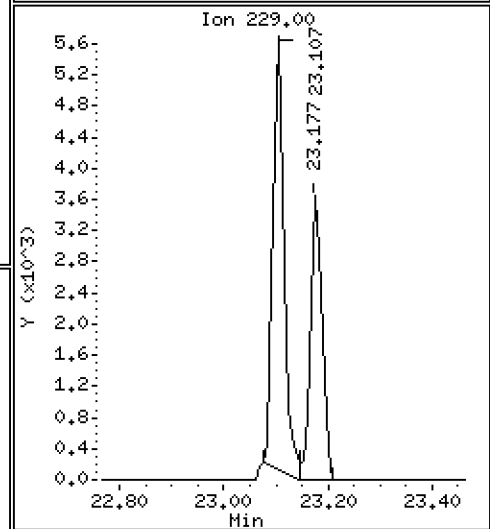
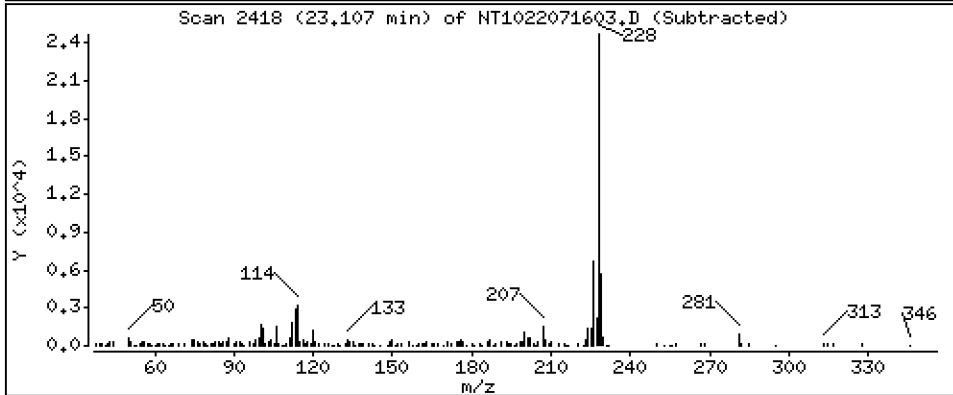
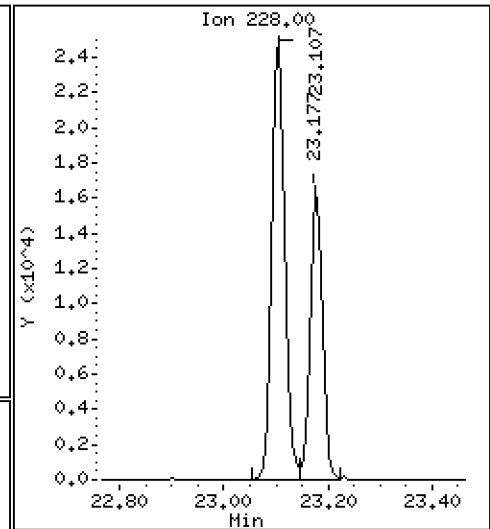
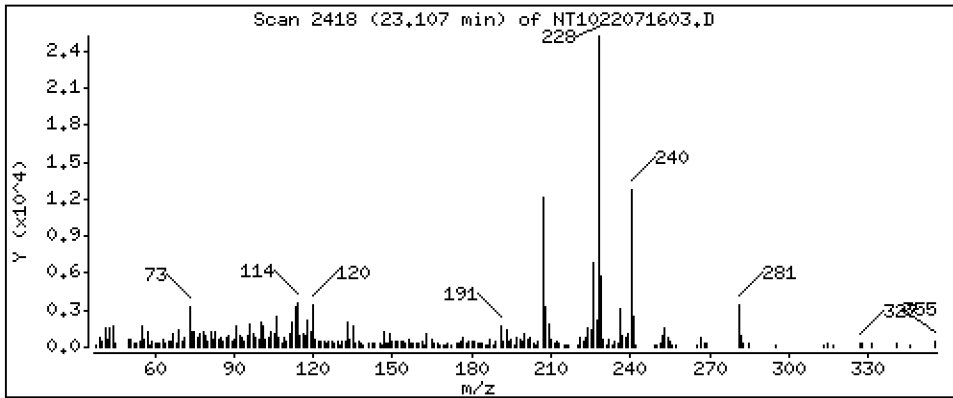
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2042 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

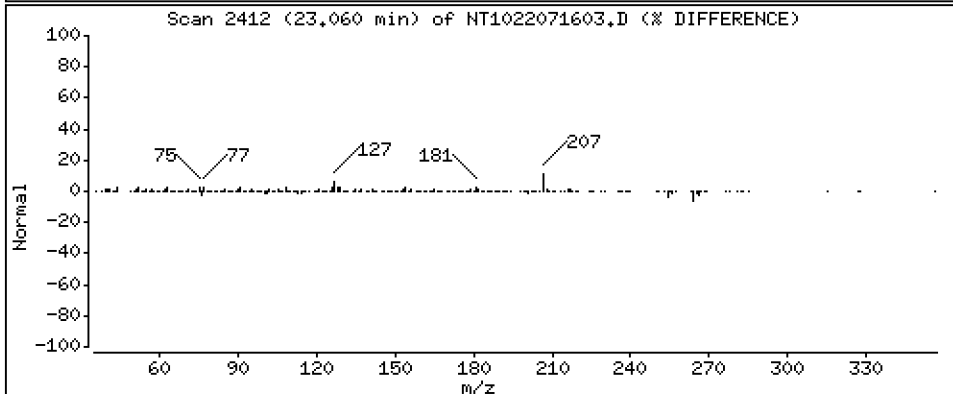
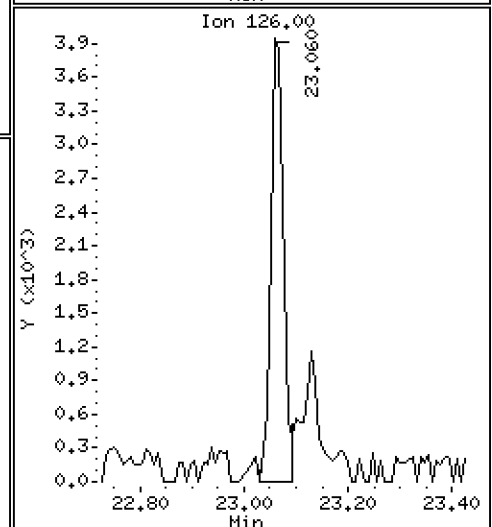
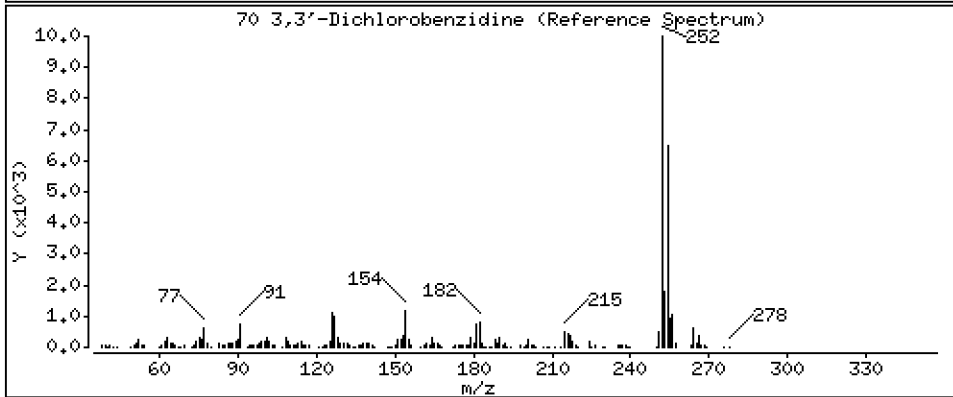
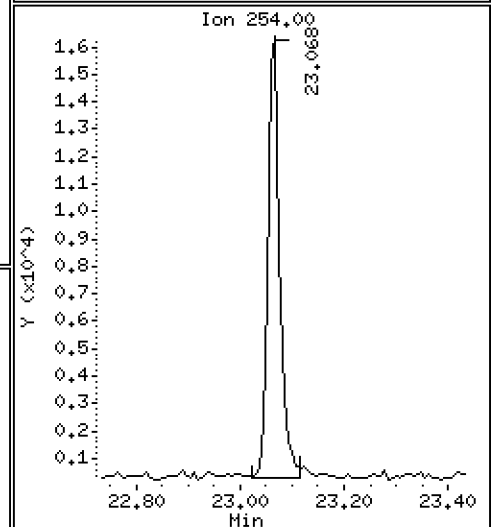
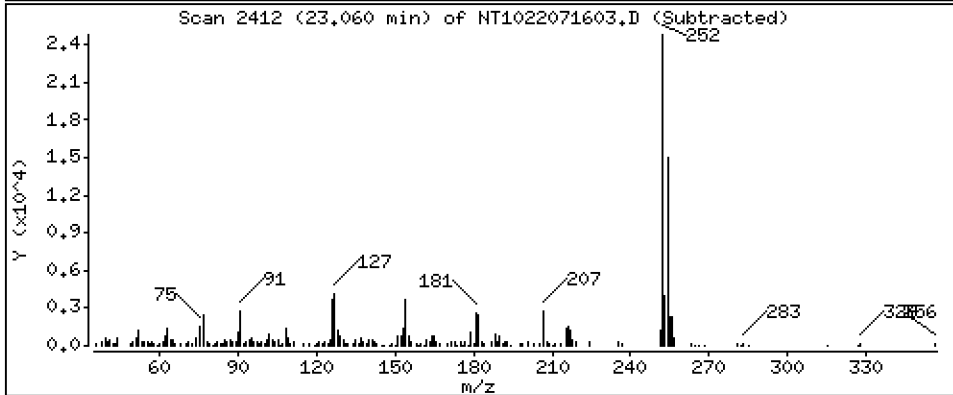
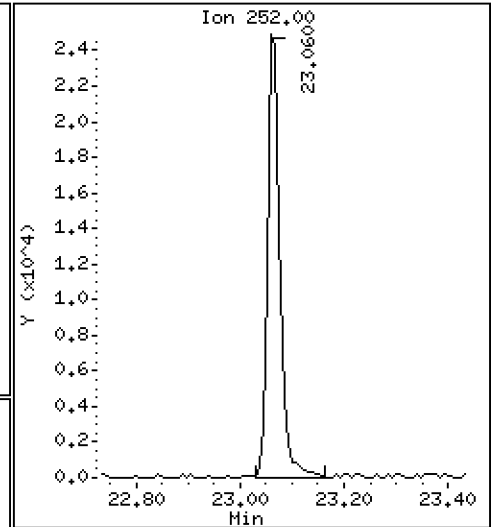
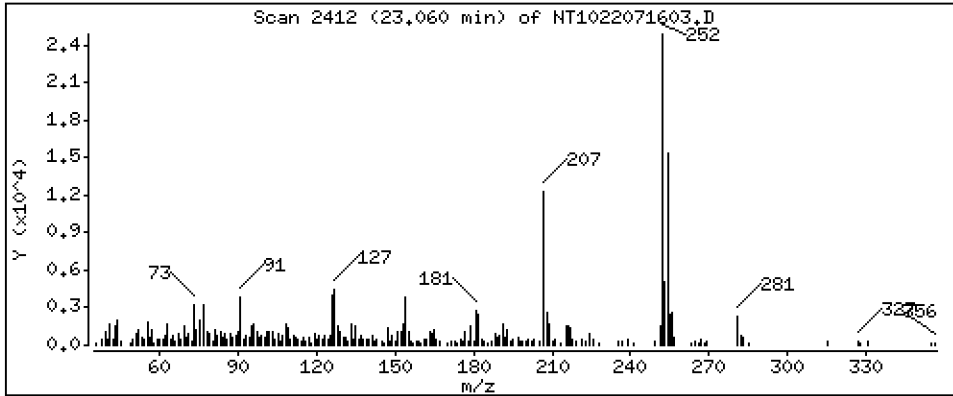
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,6220 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

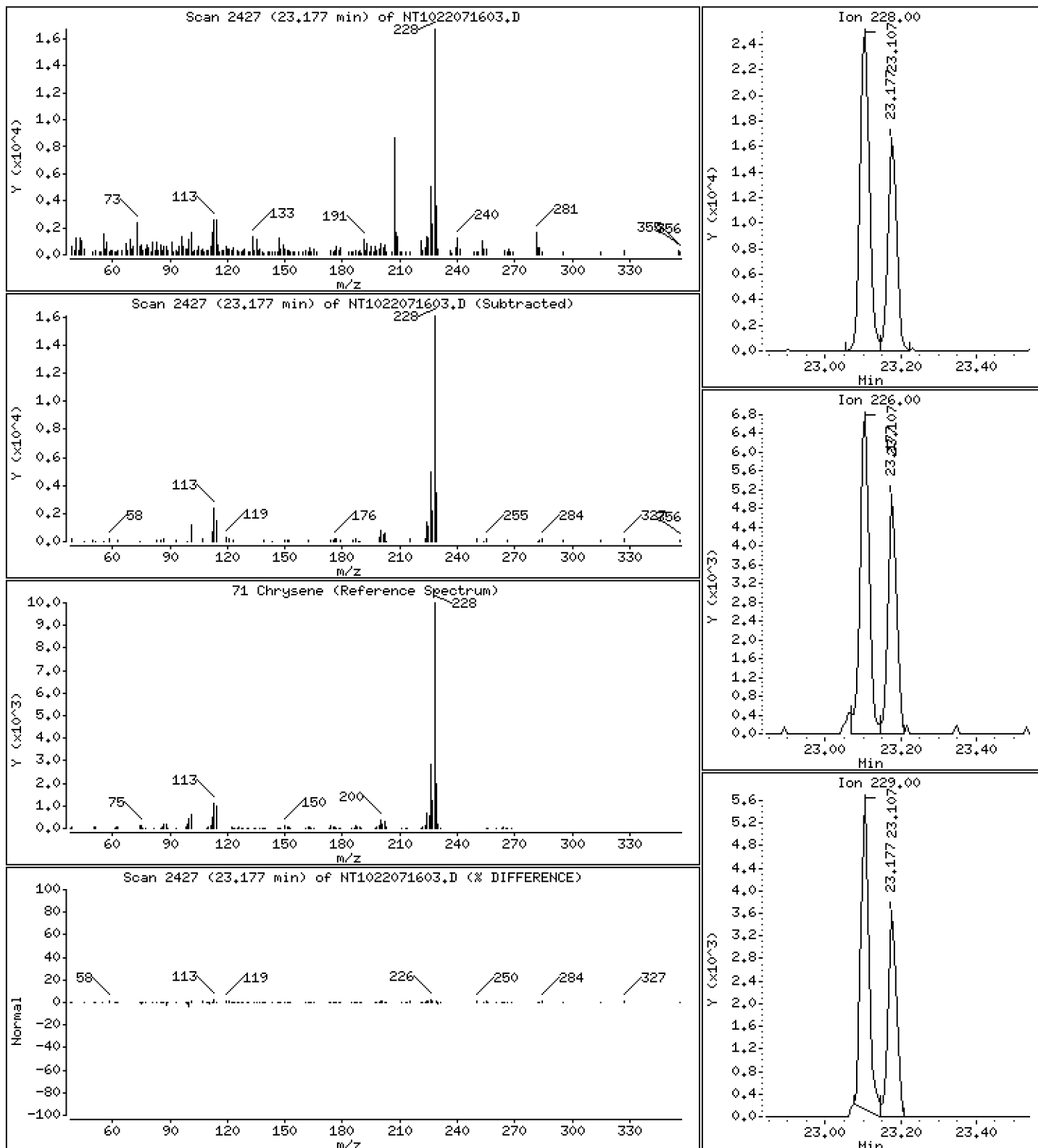
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,1957 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

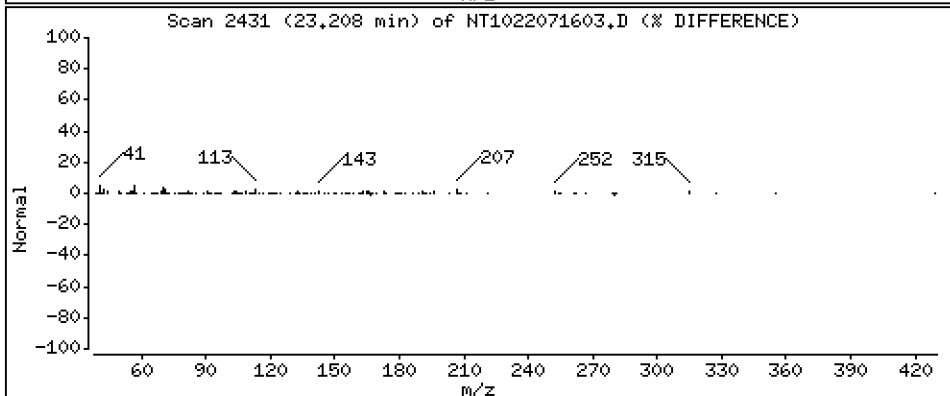
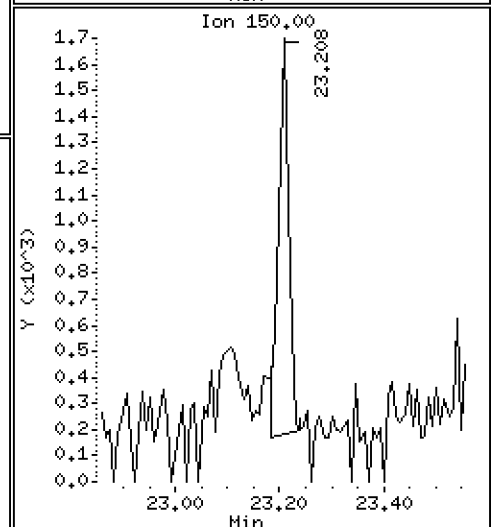
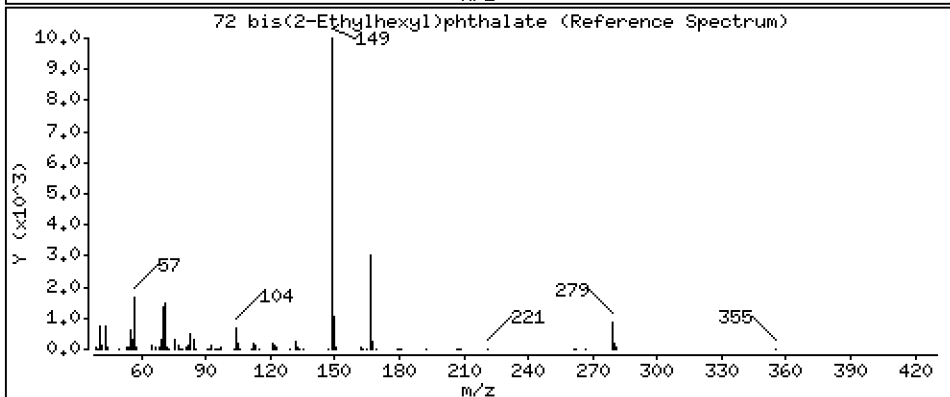
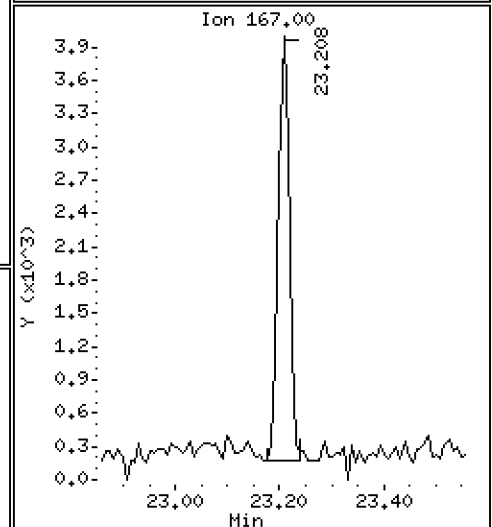
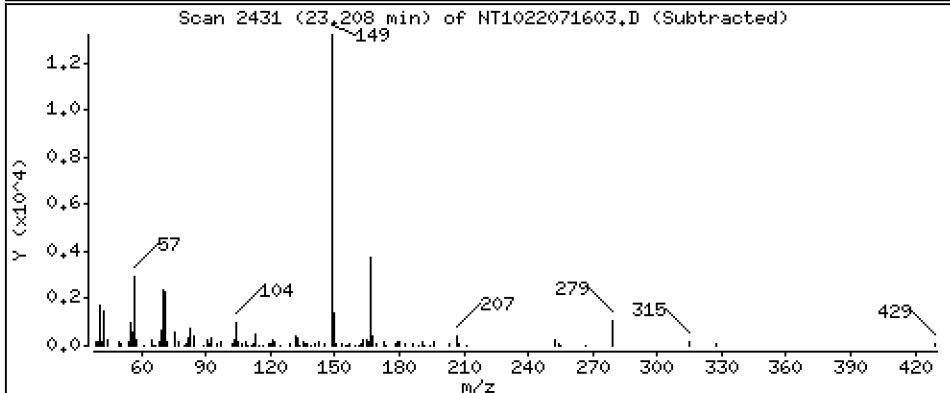
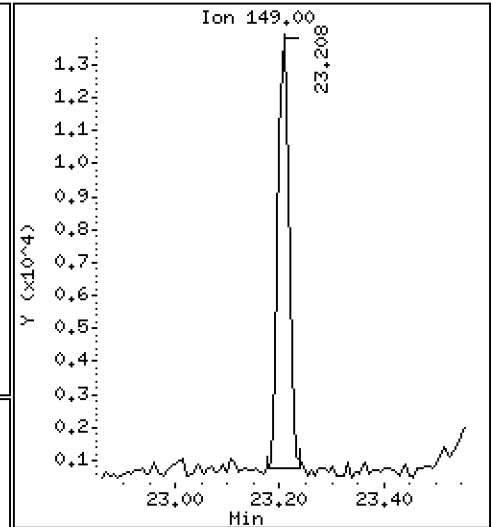
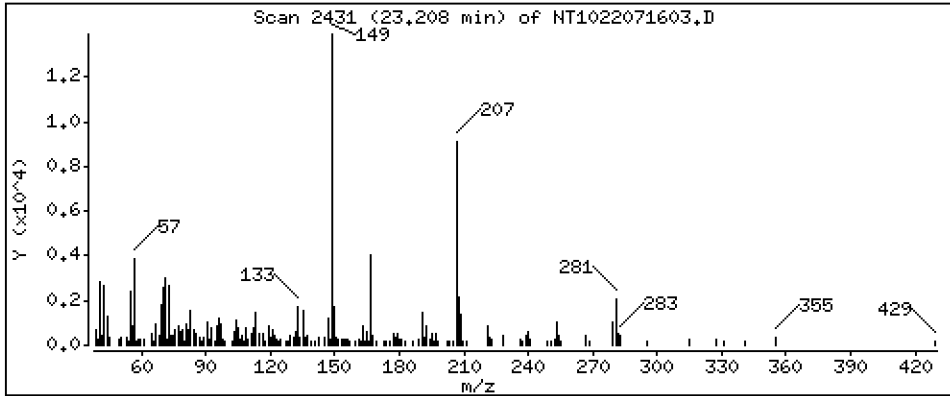
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4578 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

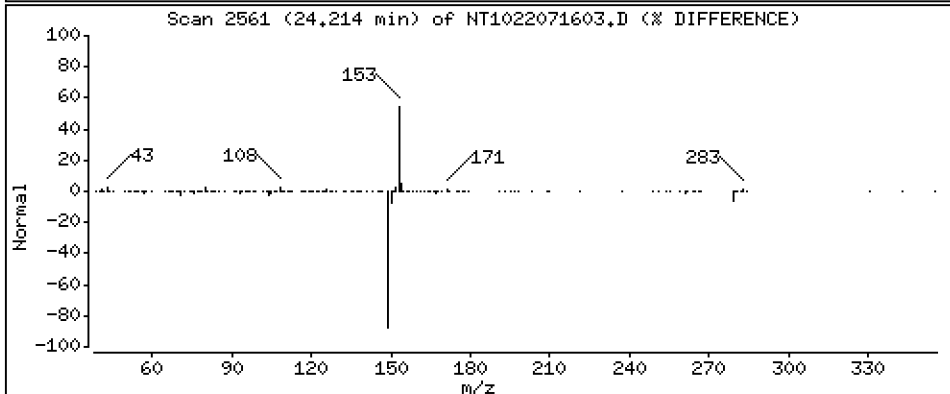
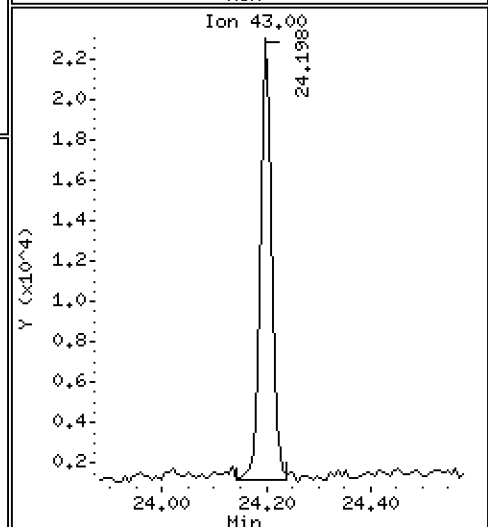
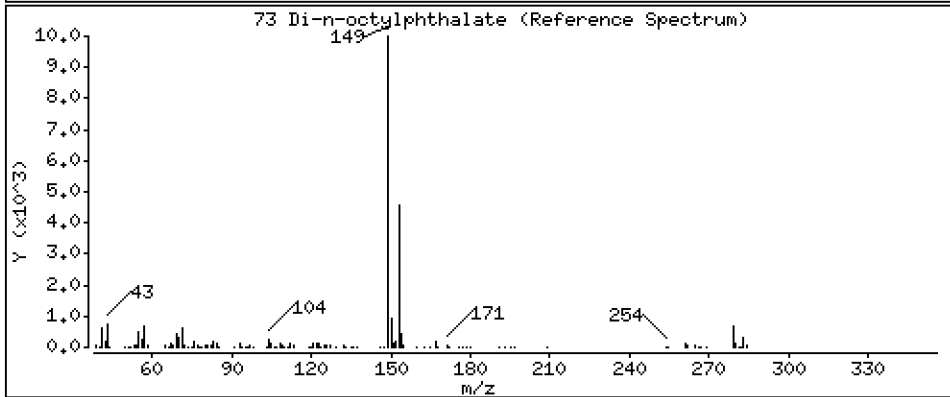
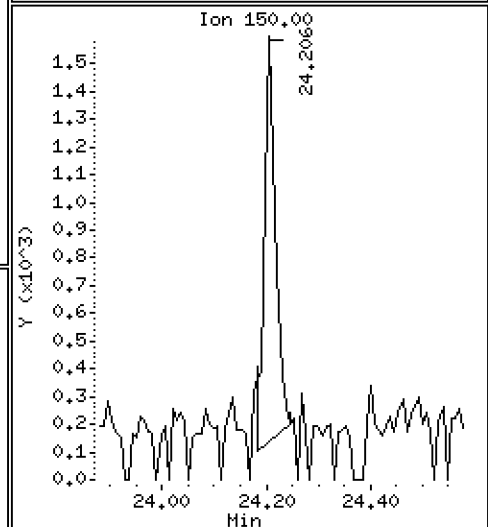
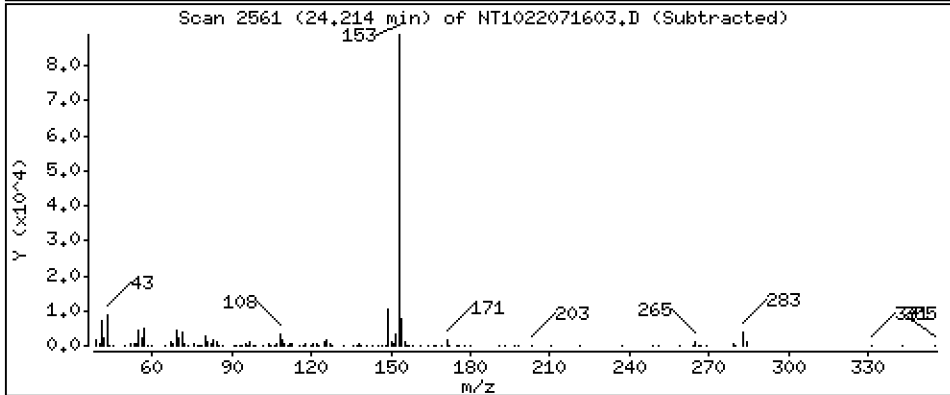
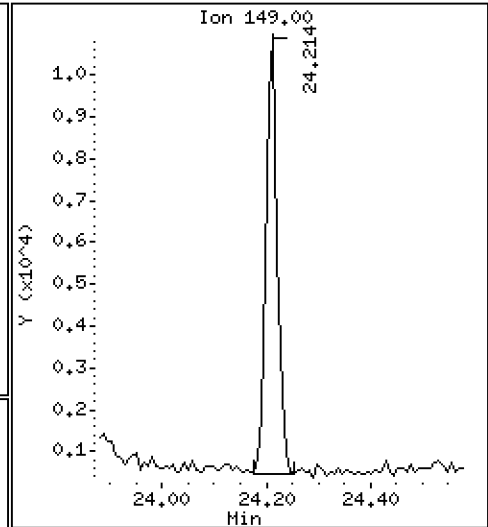
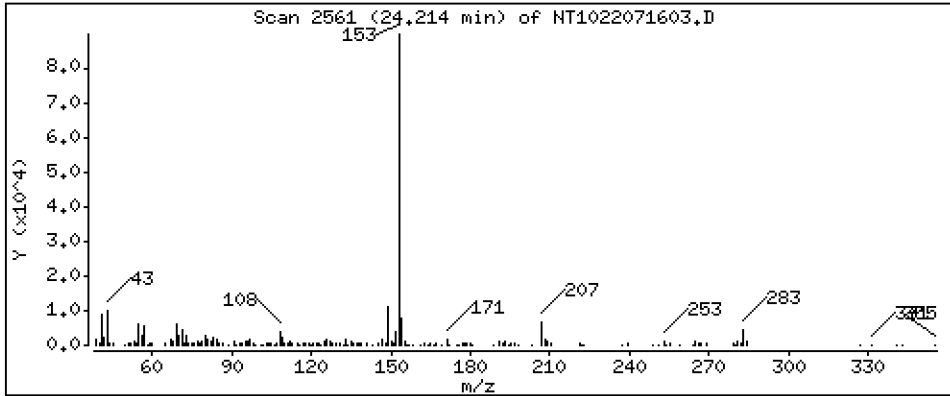
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,1938 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

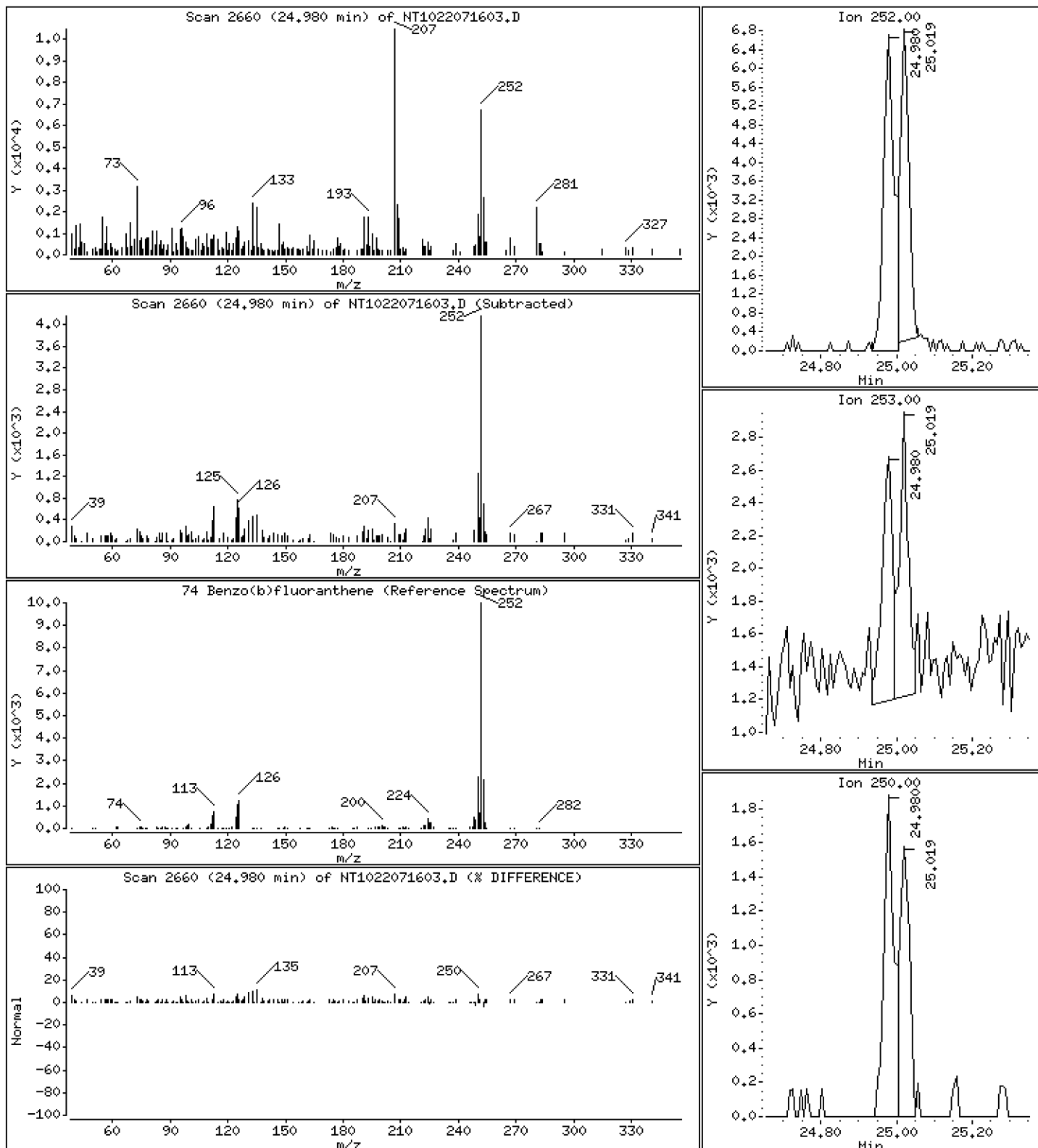
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,1814 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

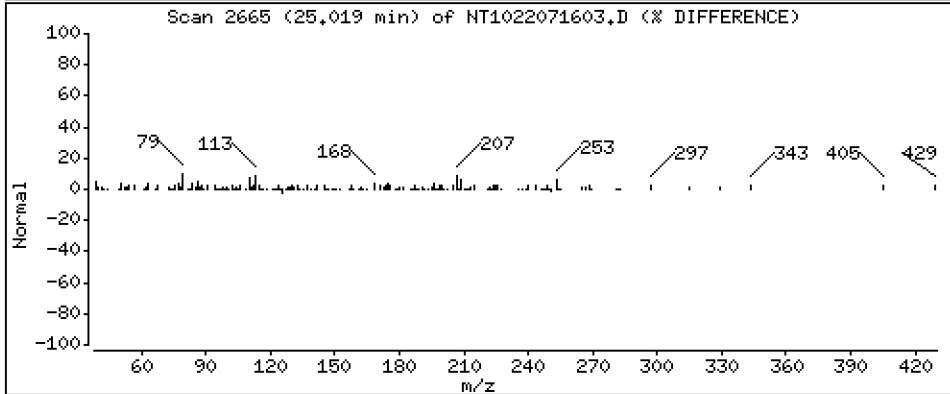
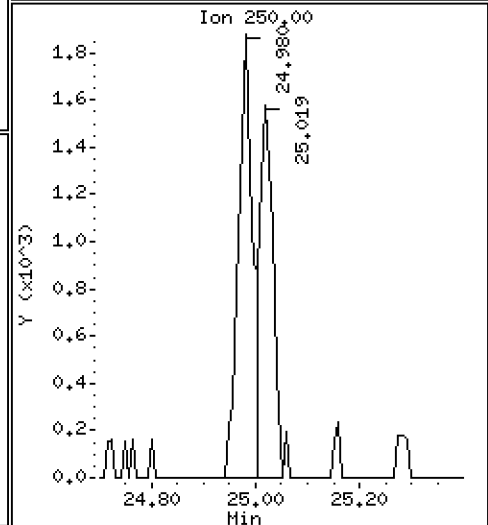
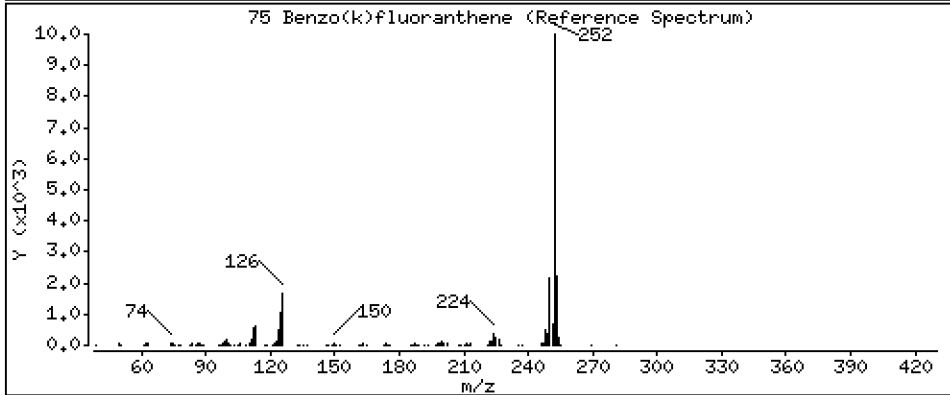
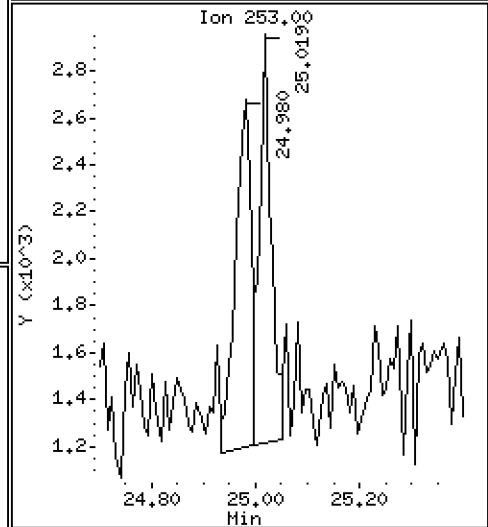
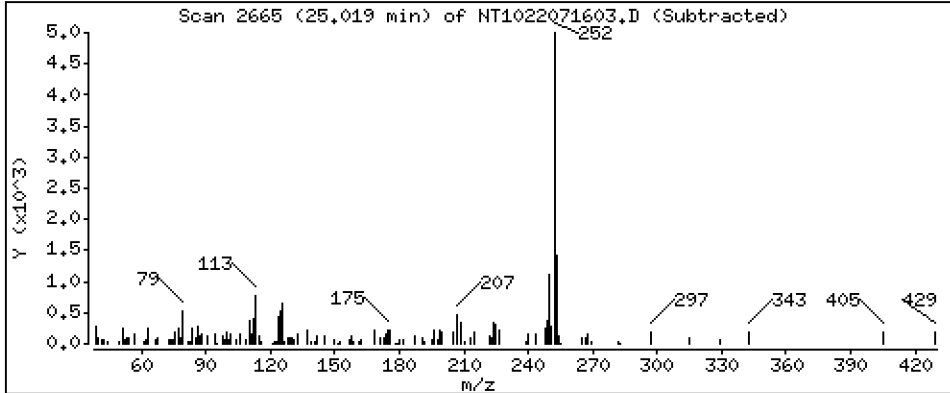
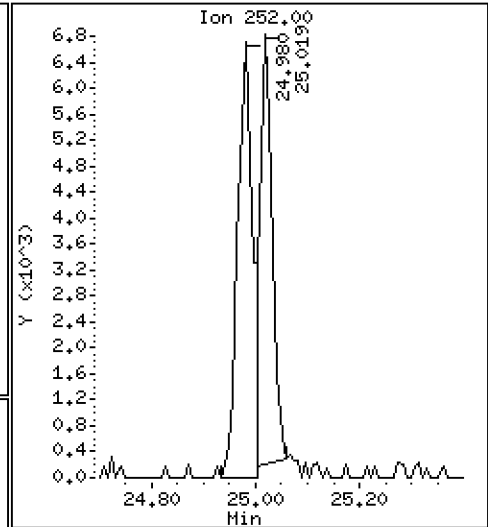
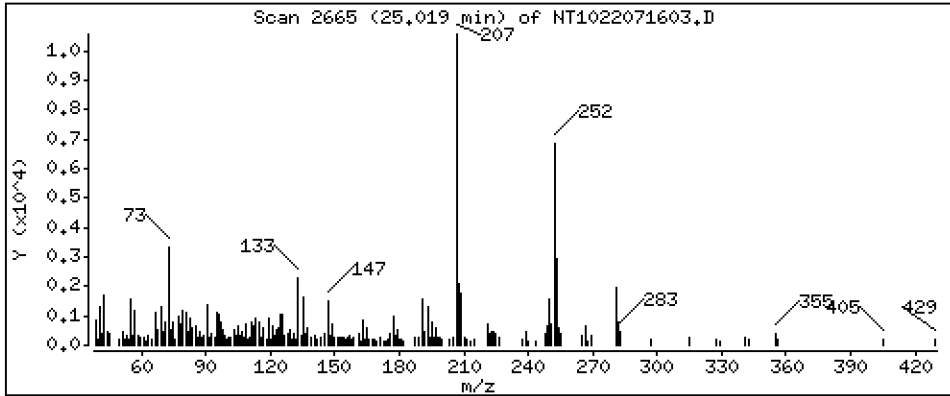
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,1605 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

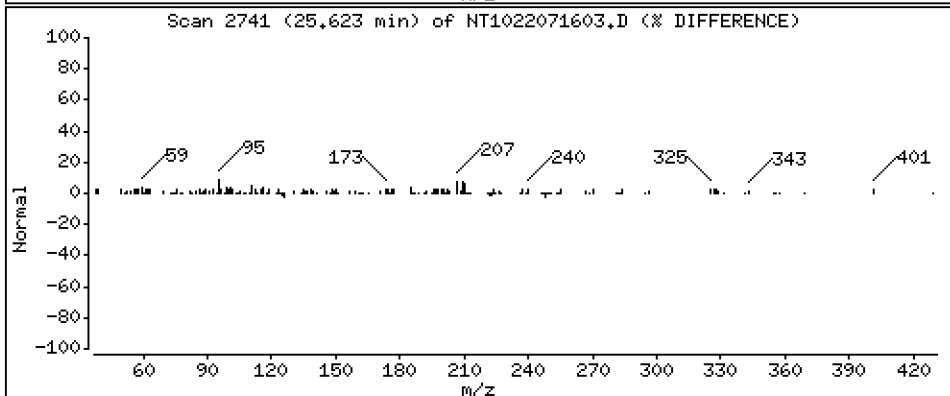
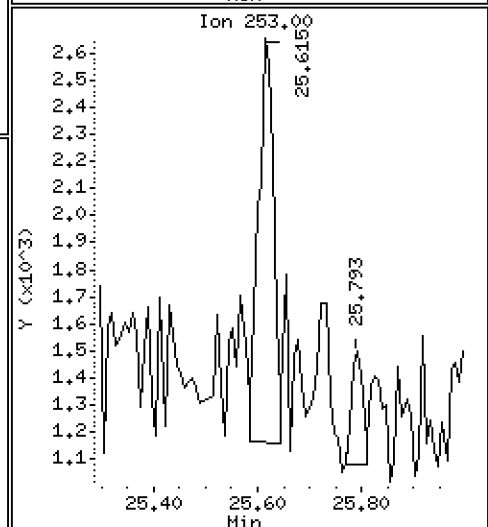
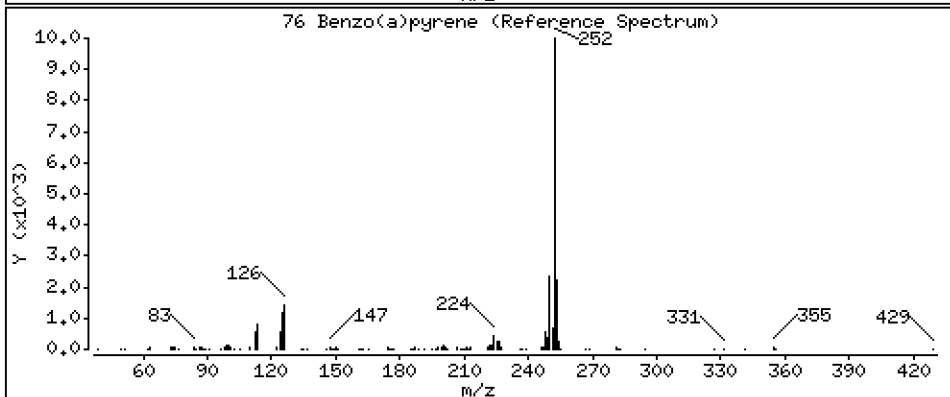
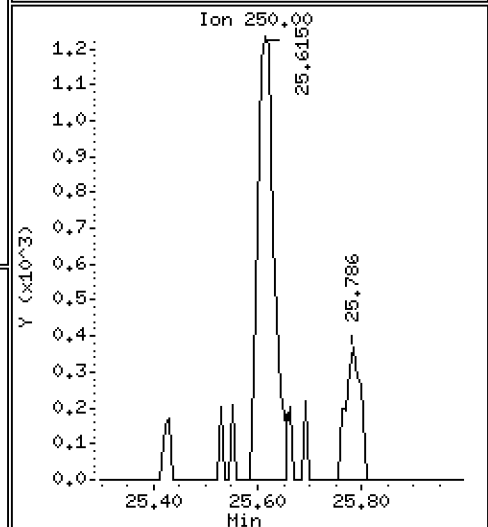
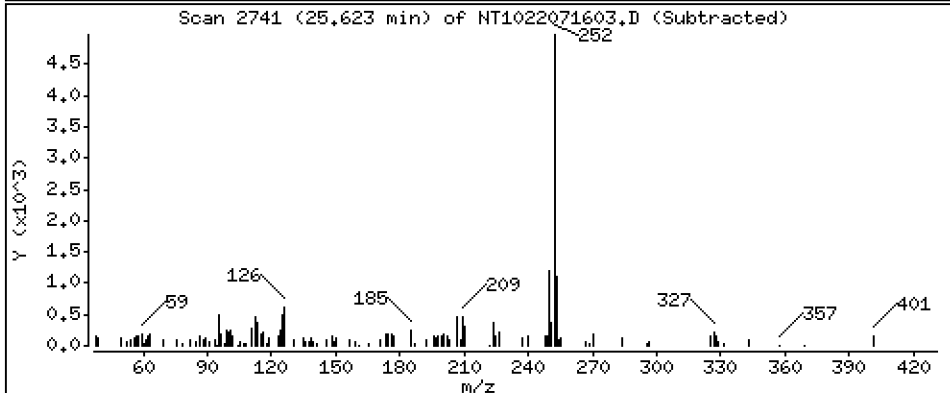
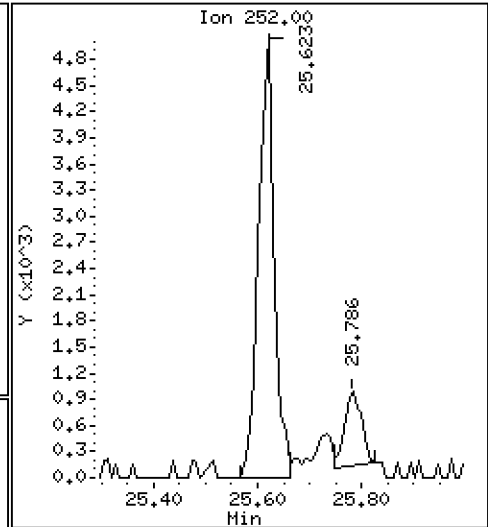
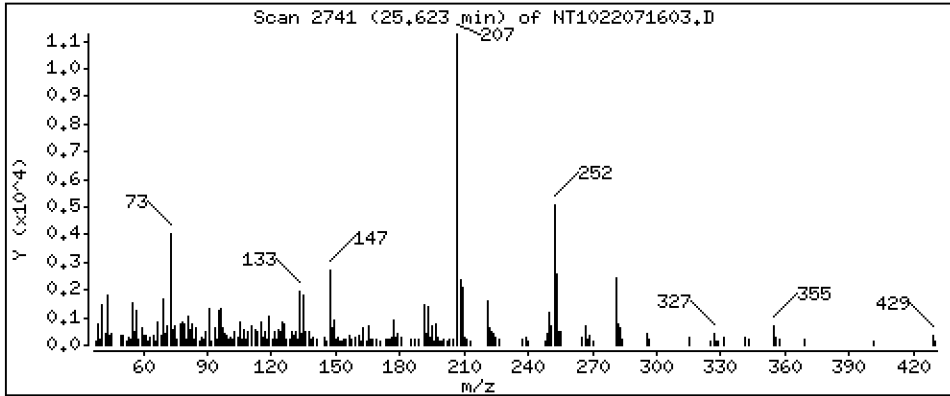
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,1792 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

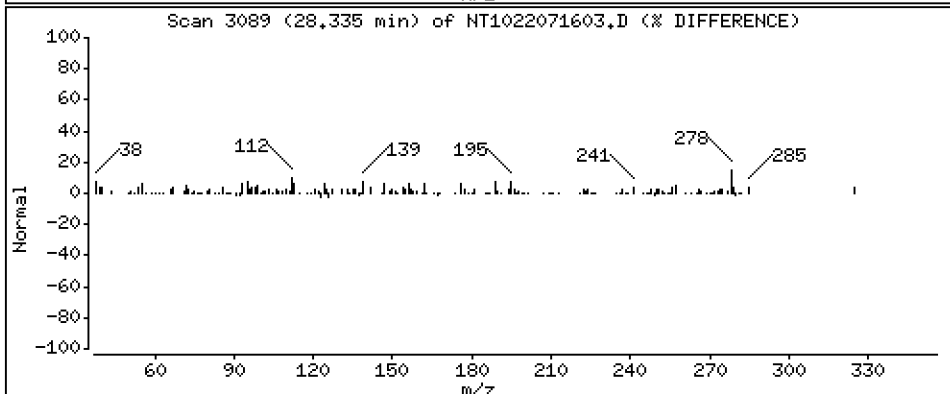
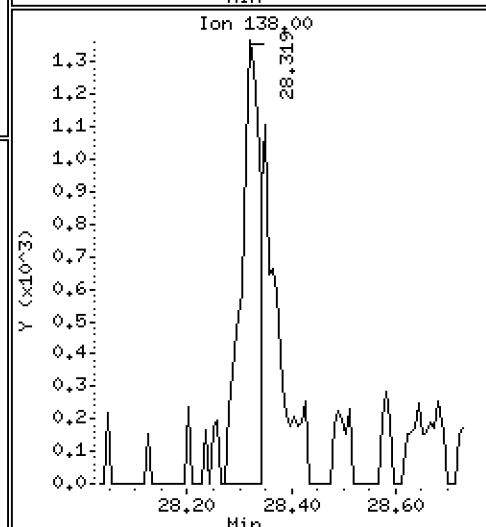
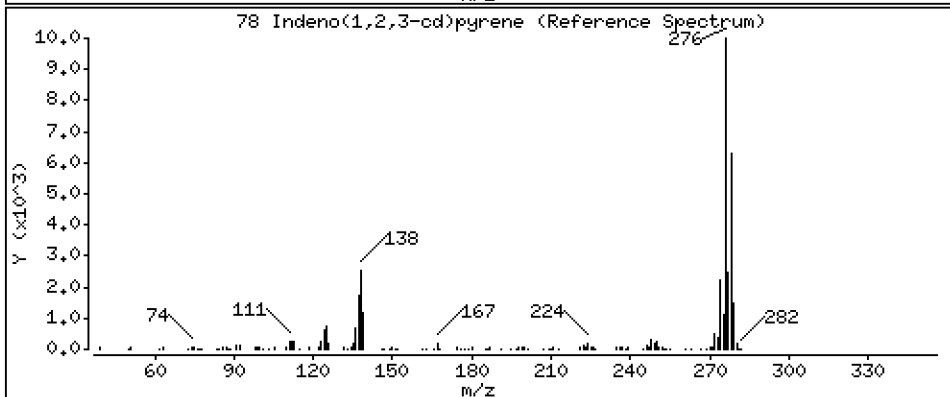
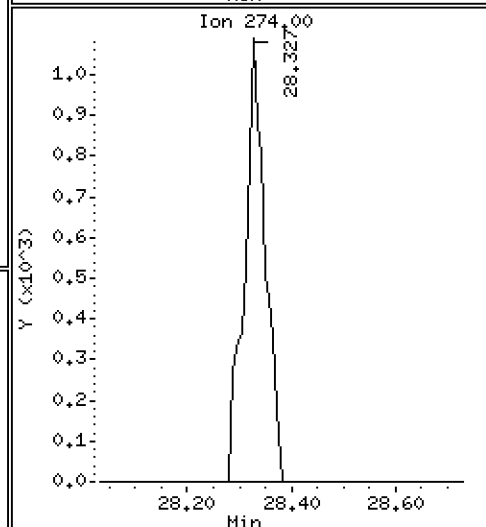
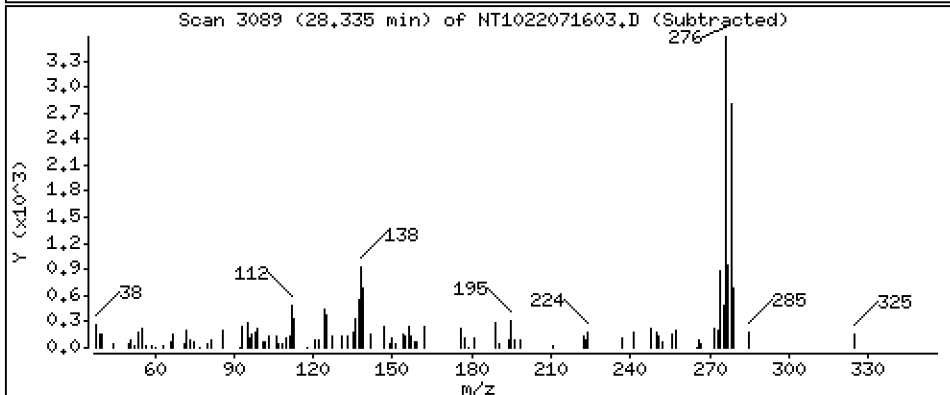
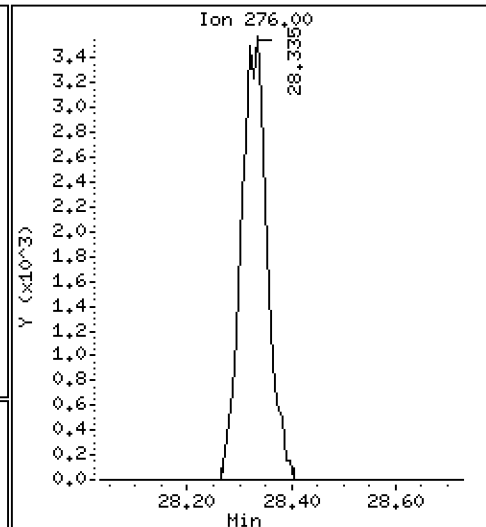
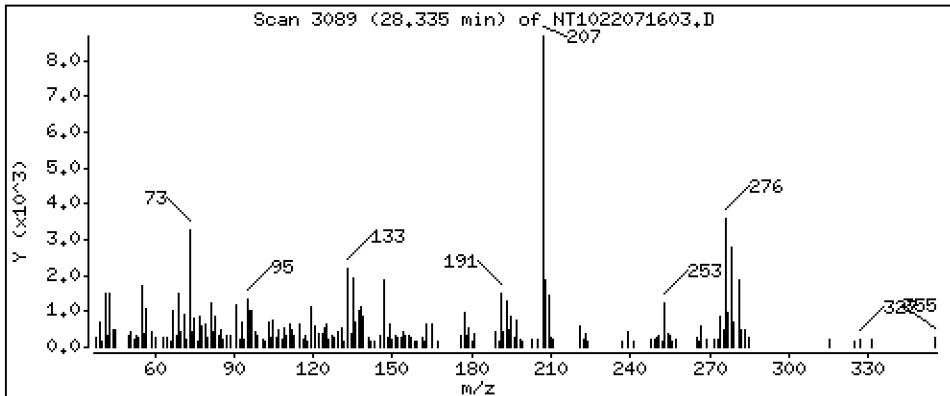
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,1931 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

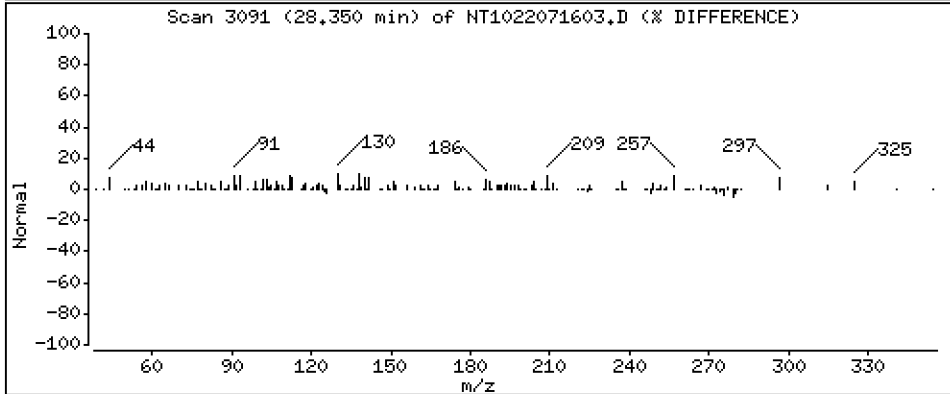
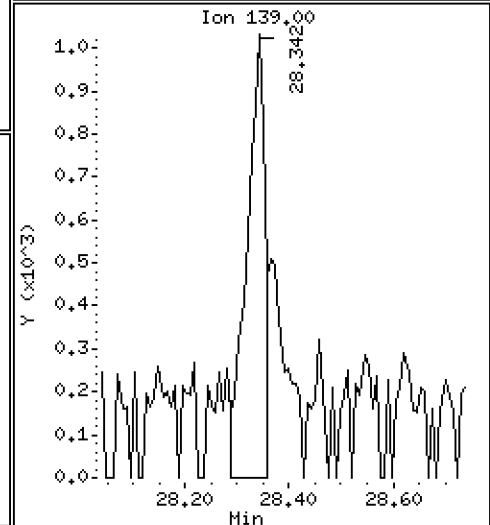
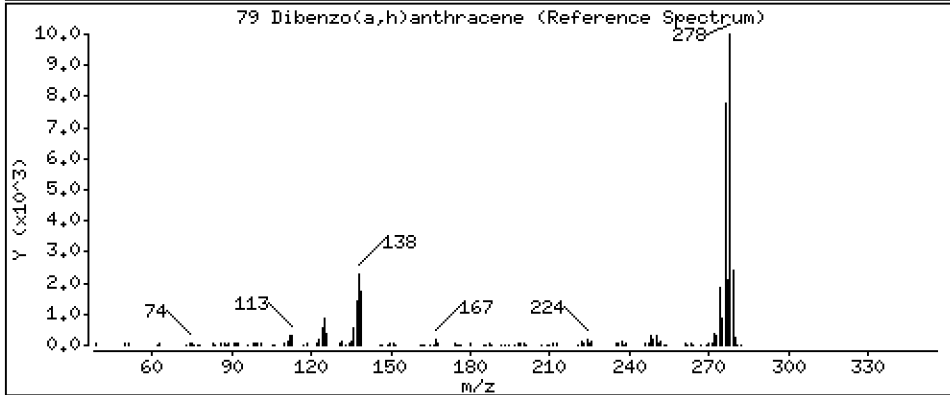
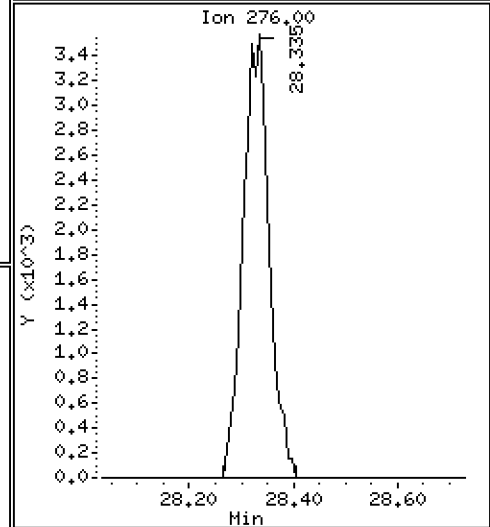
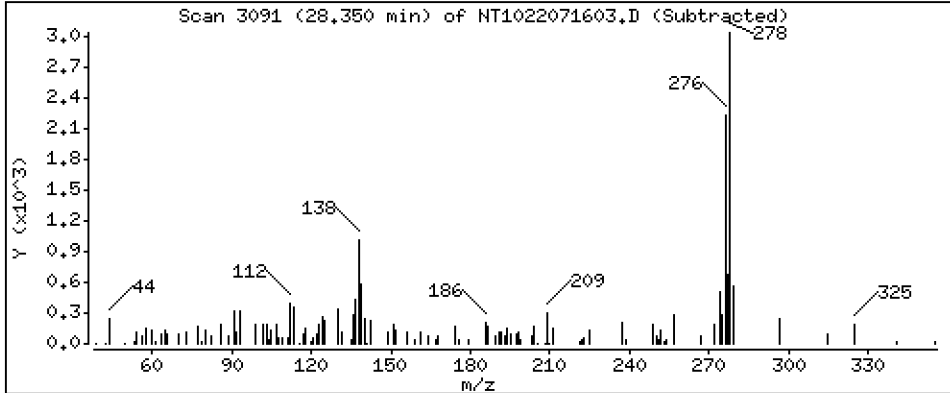
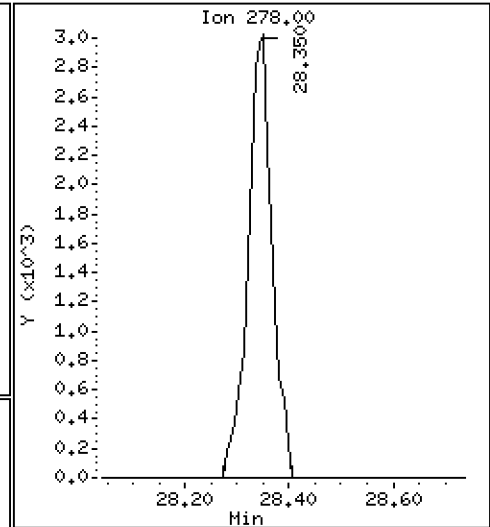
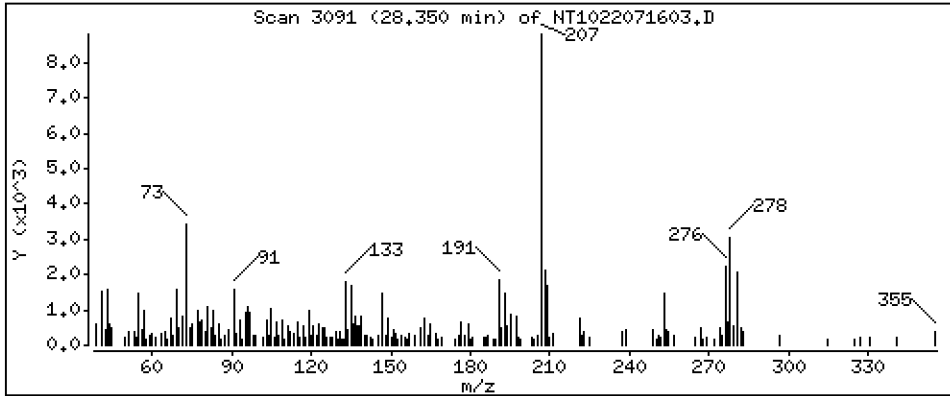
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1984 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

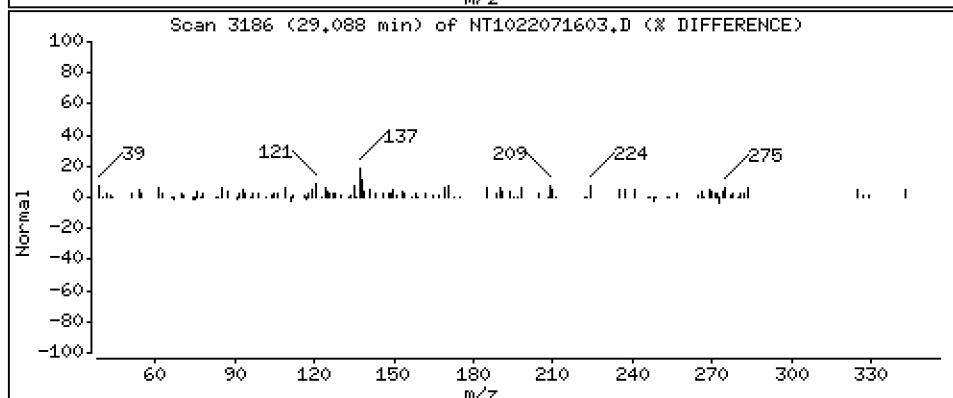
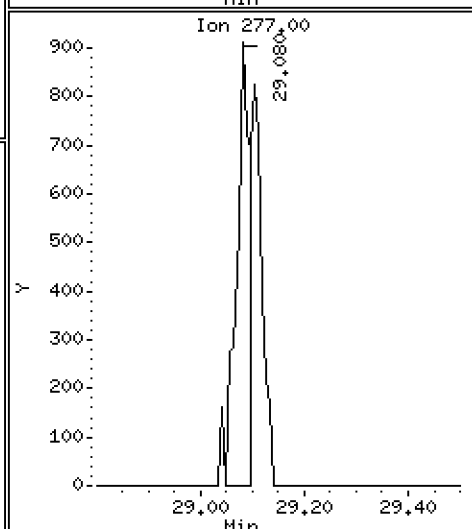
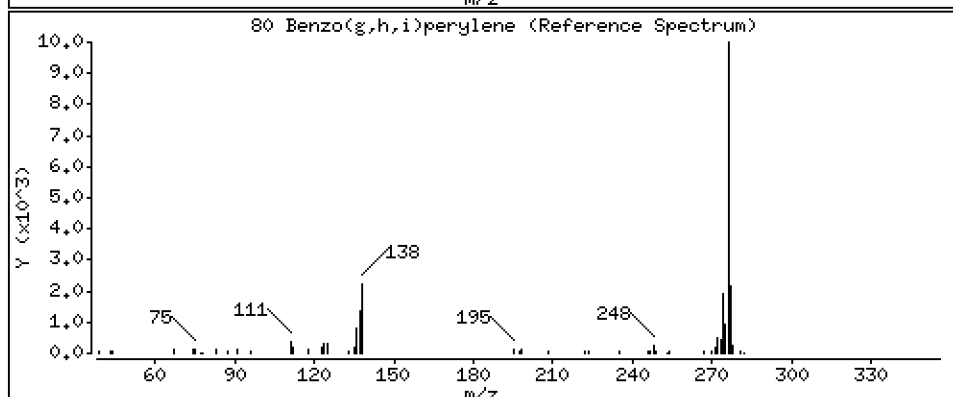
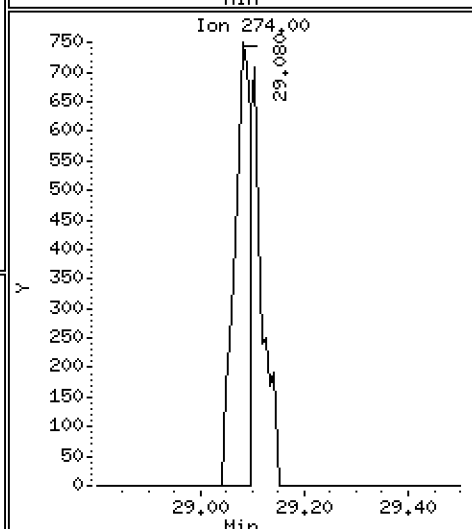
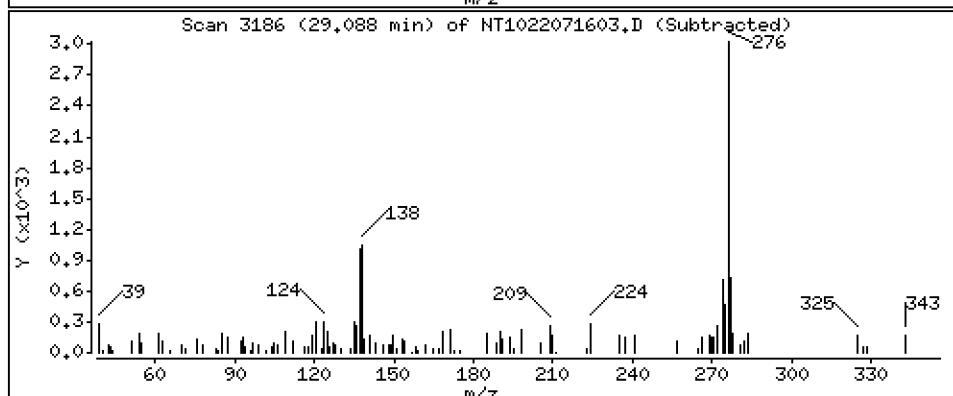
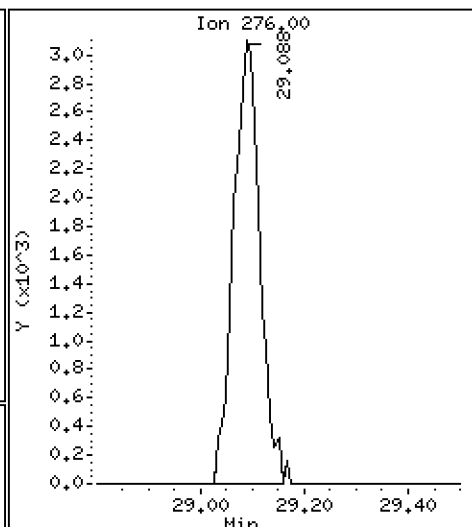
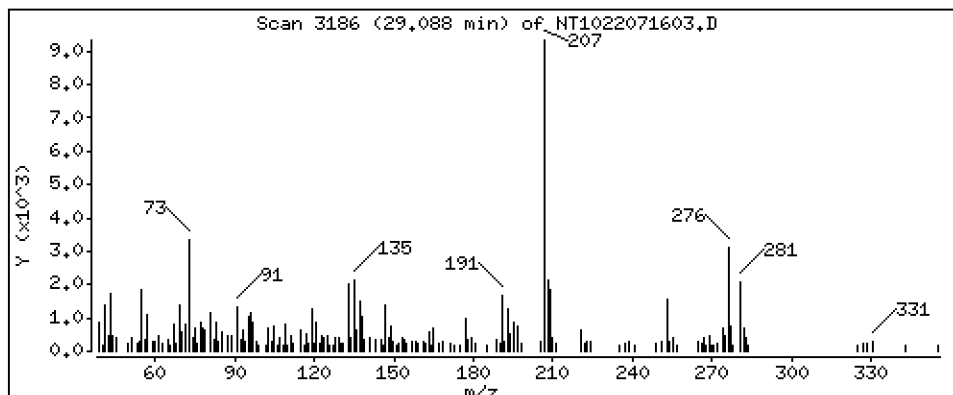
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2093 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

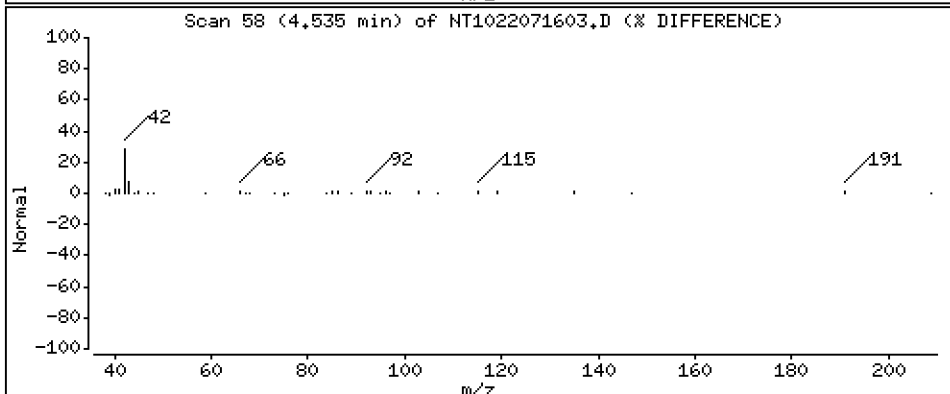
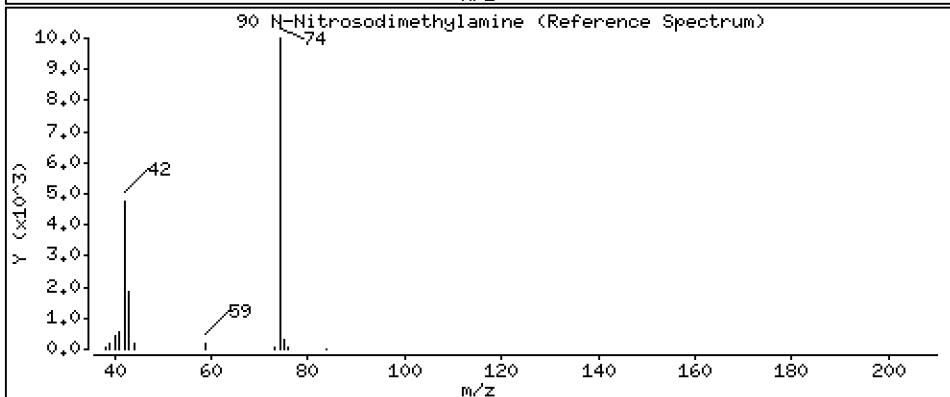
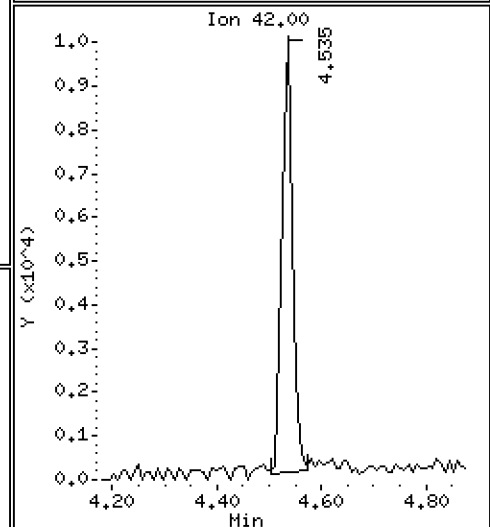
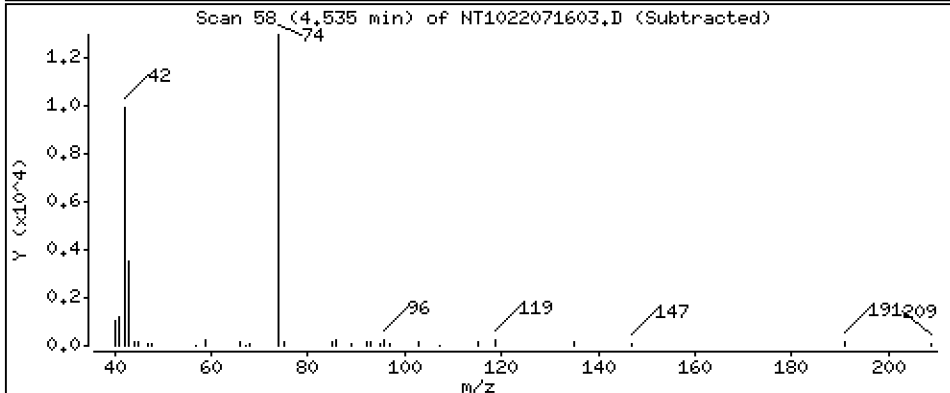
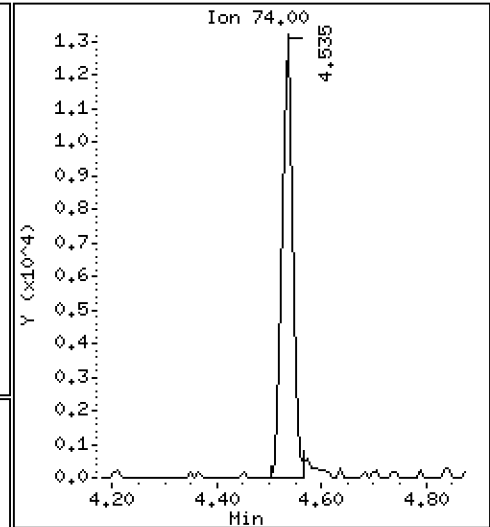
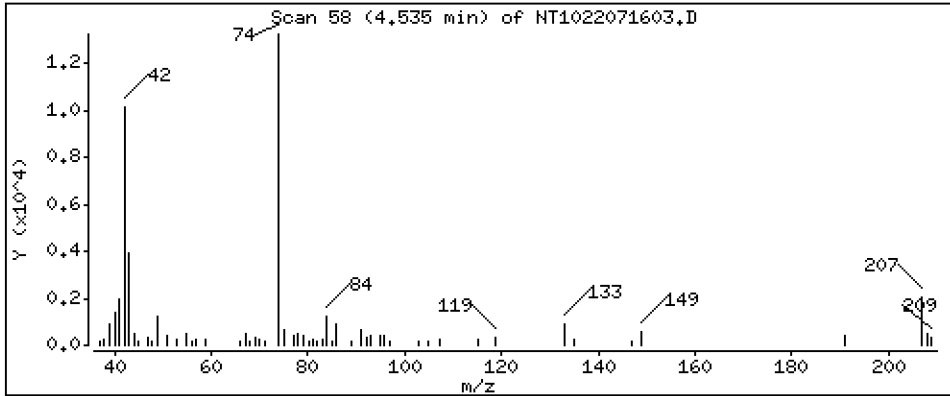
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 0.2367 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

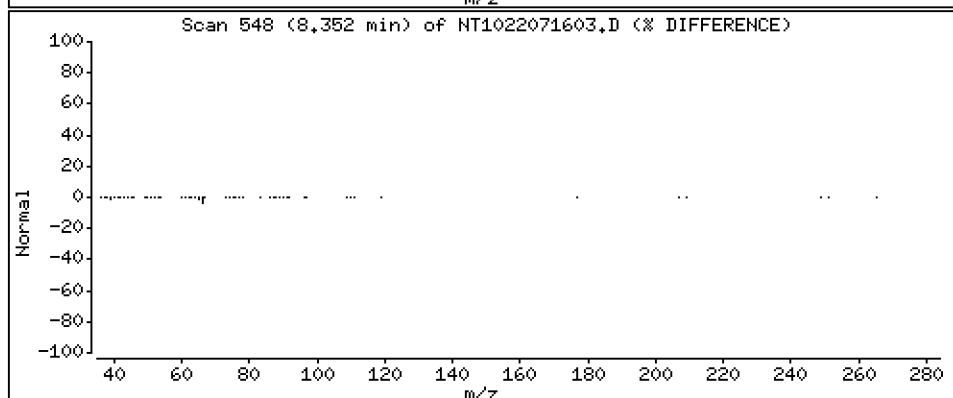
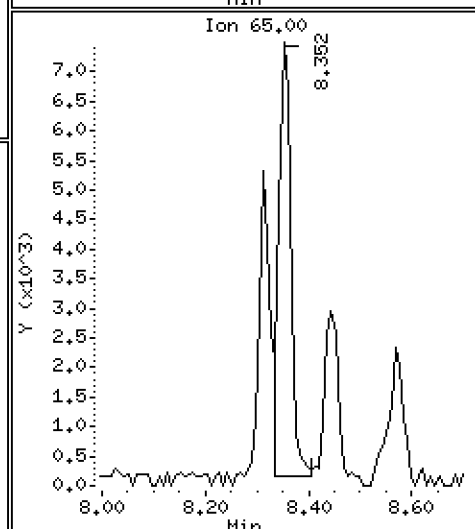
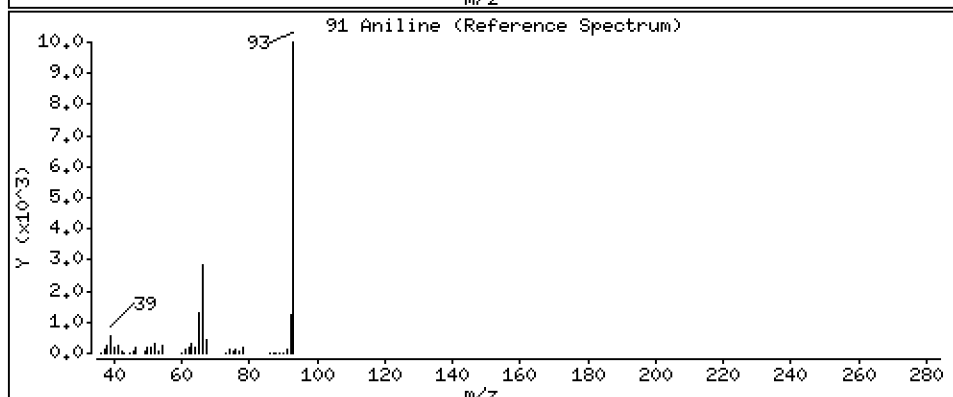
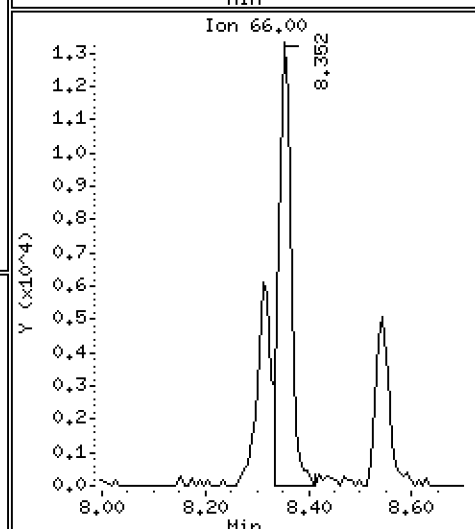
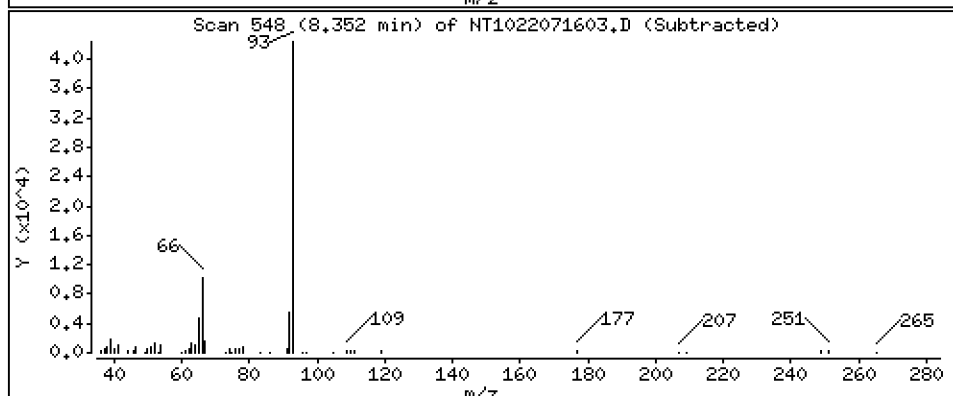
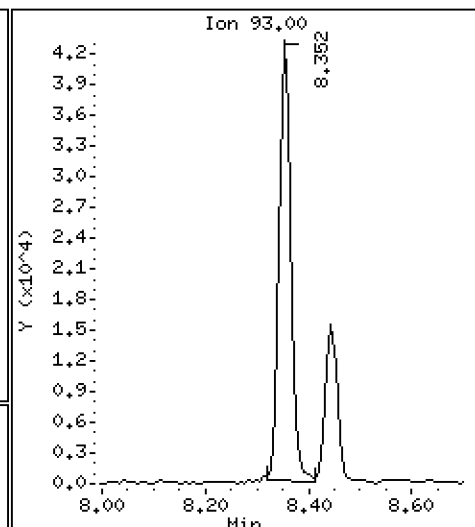
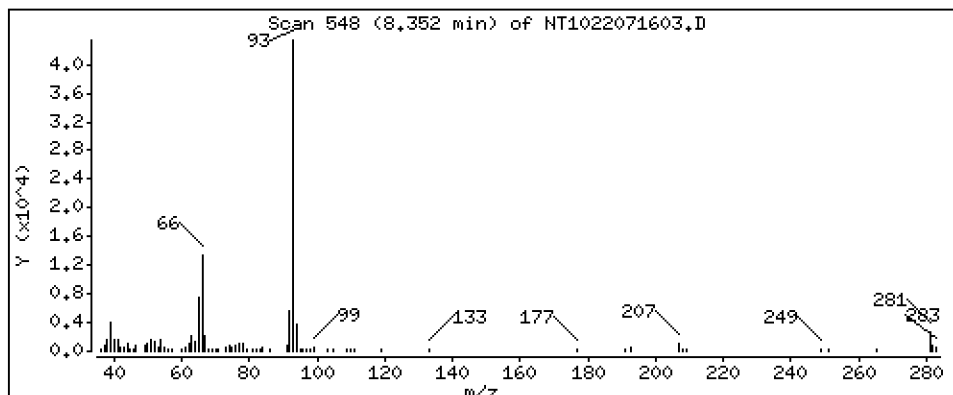
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,4129 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

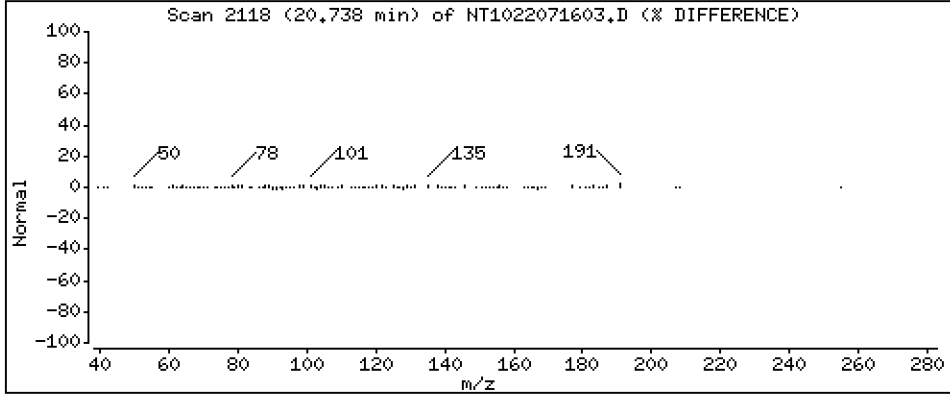
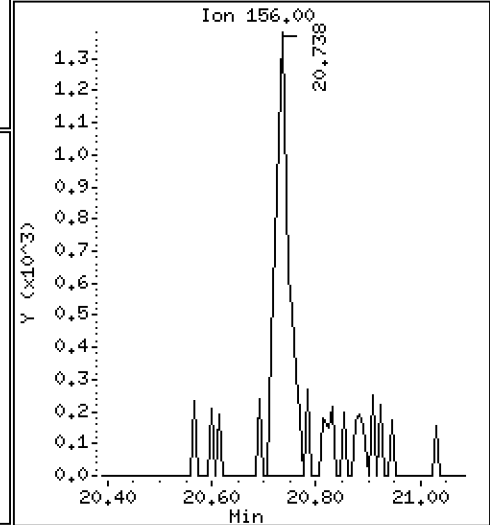
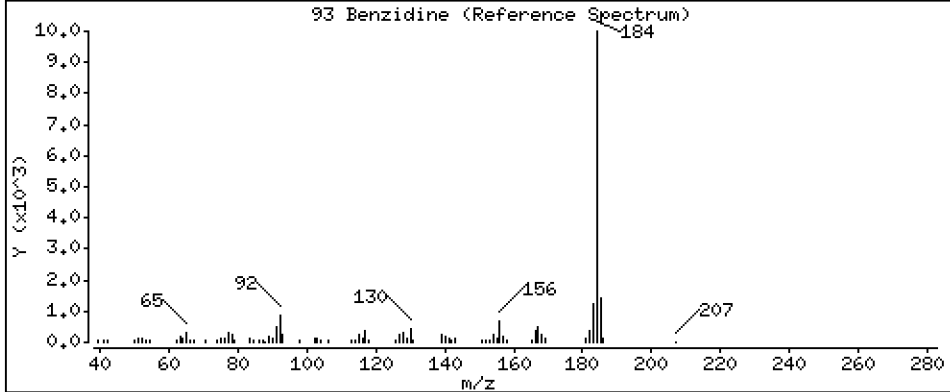
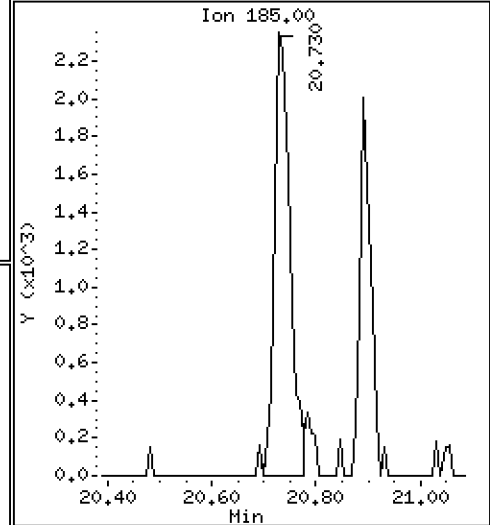
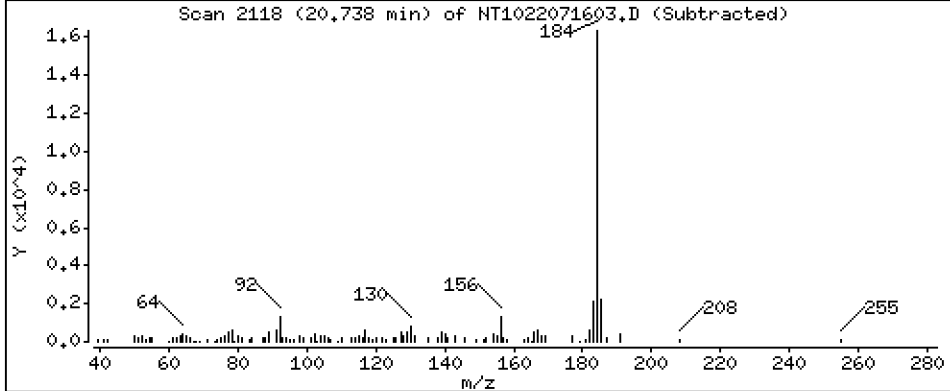
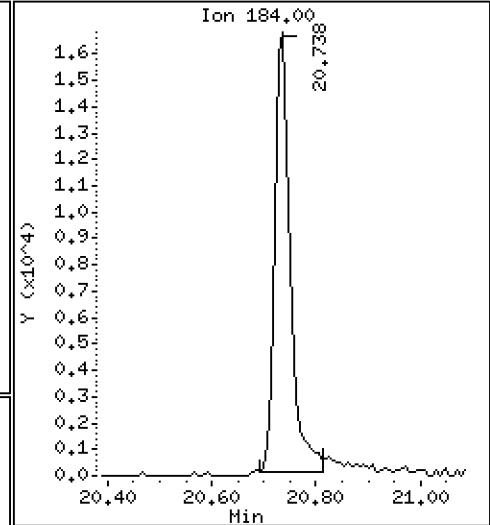
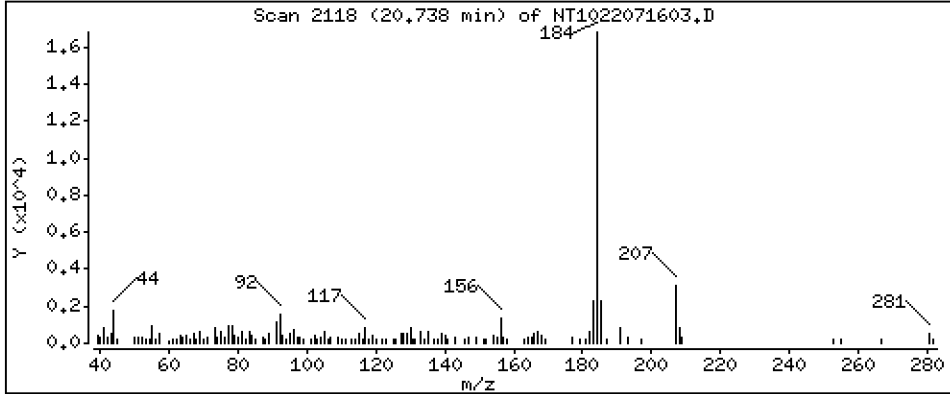
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,4753 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

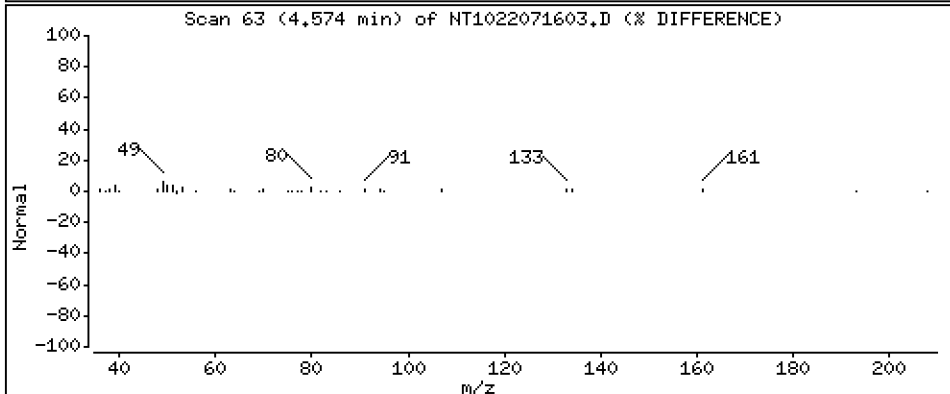
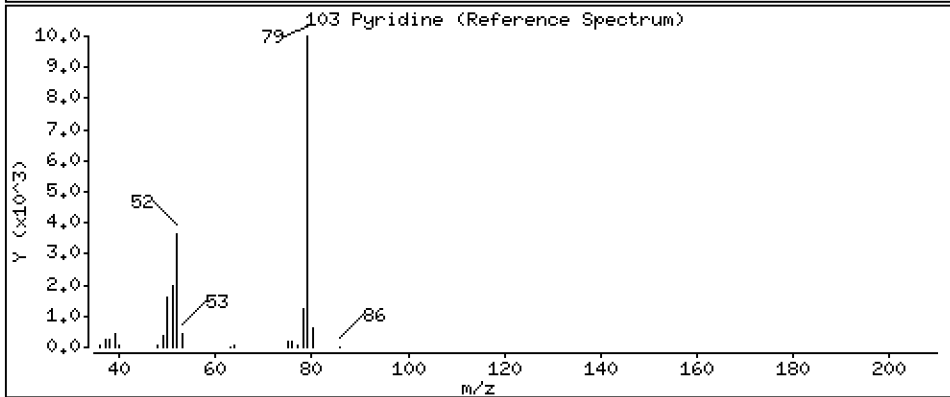
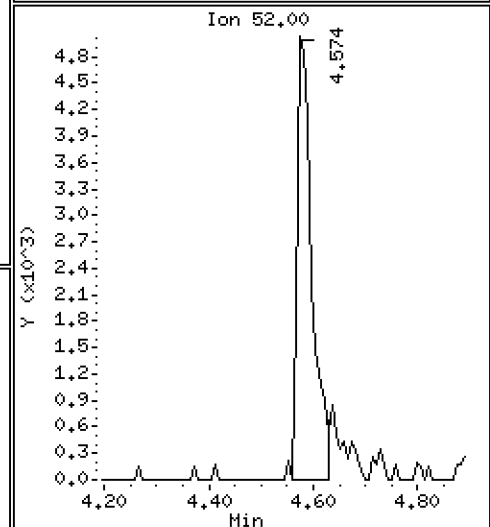
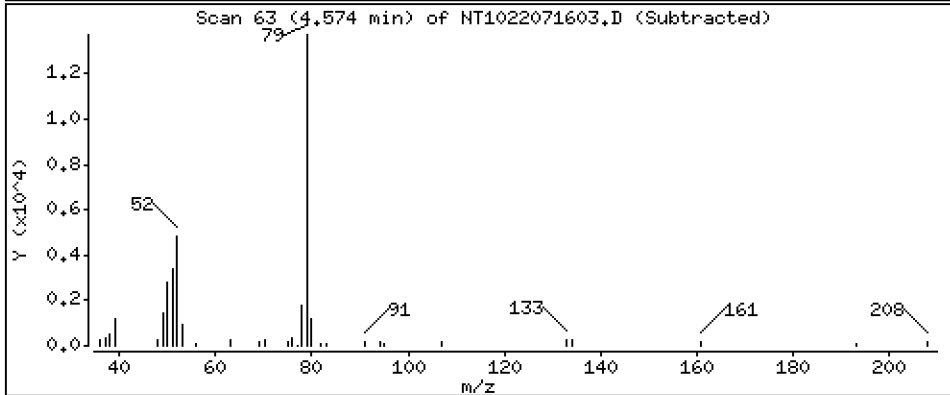
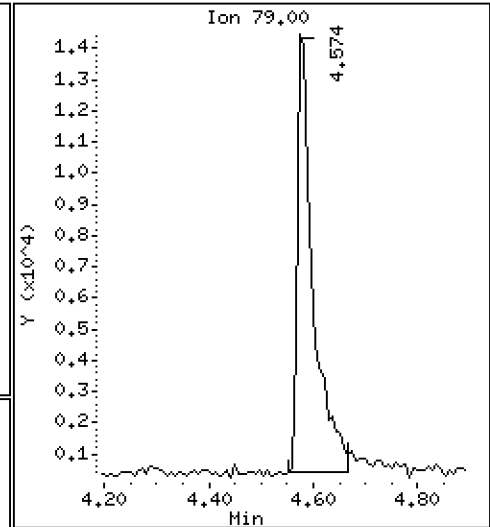
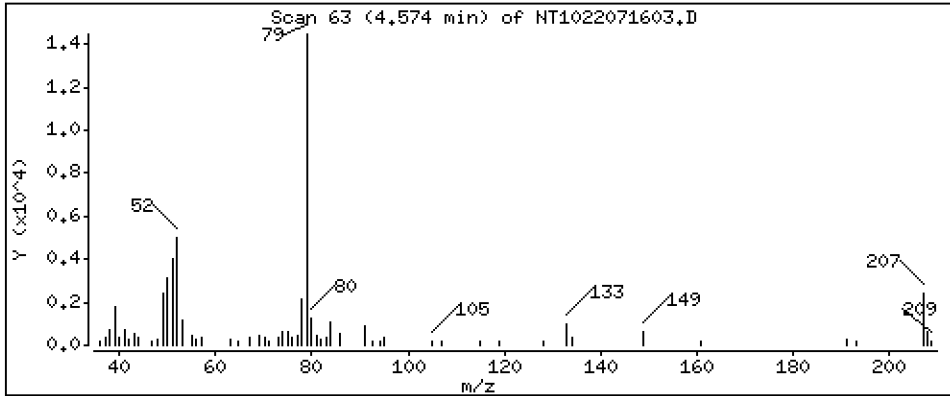
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,1371 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

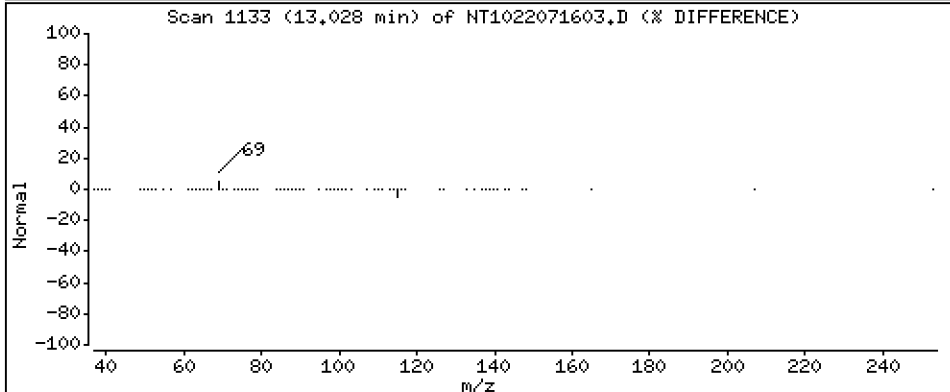
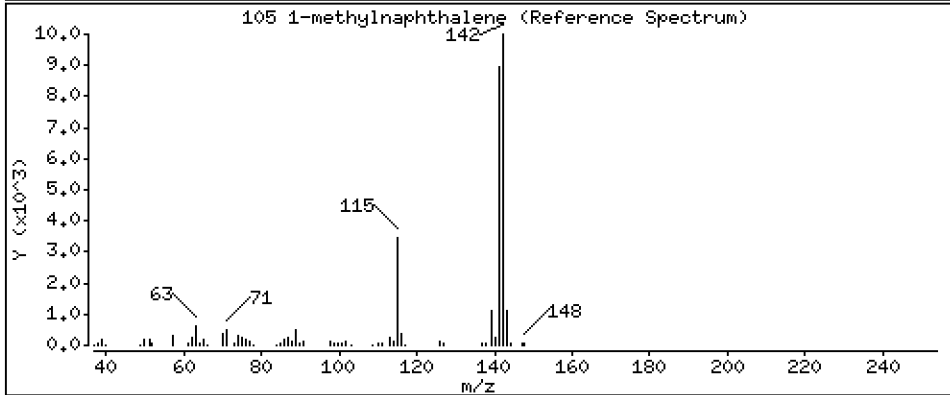
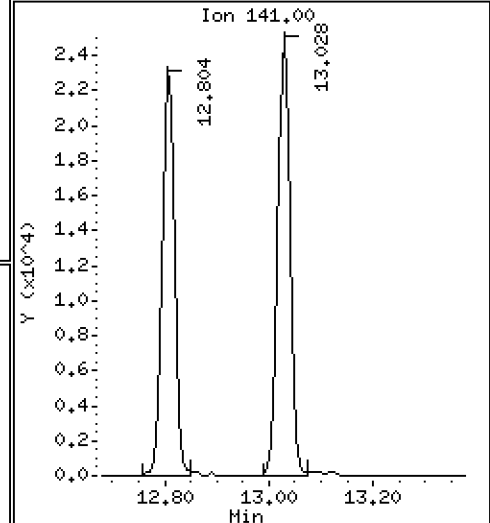
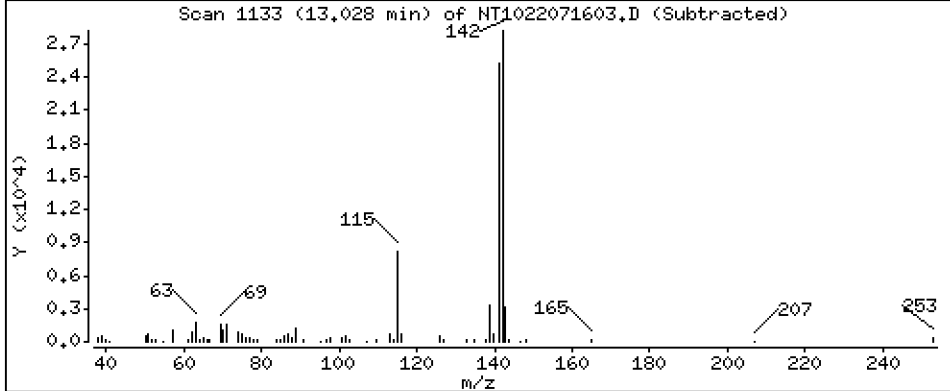
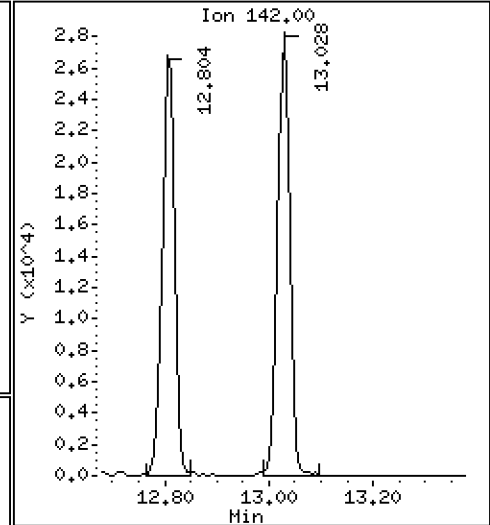
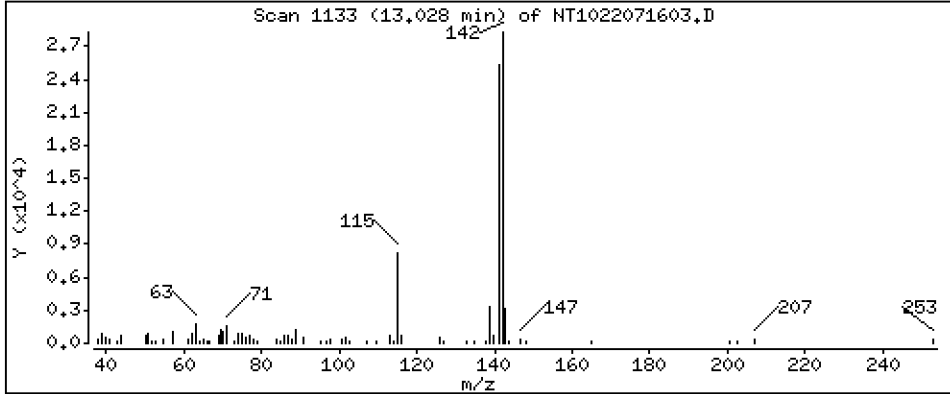
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1760 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

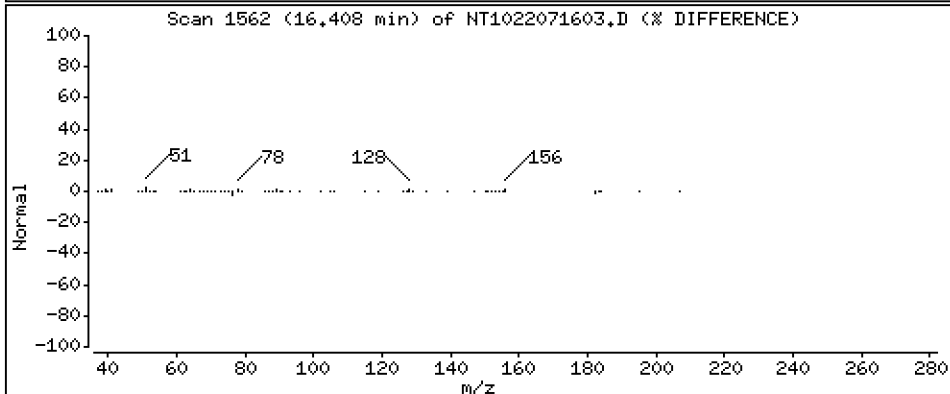
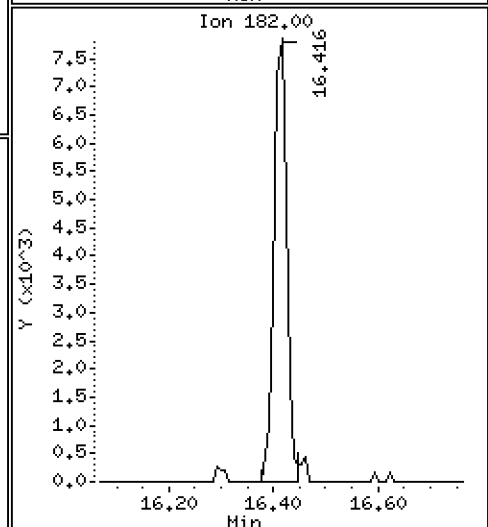
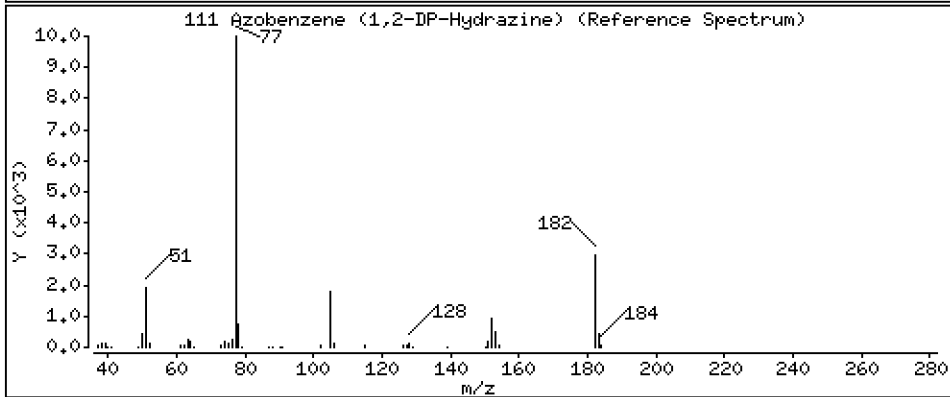
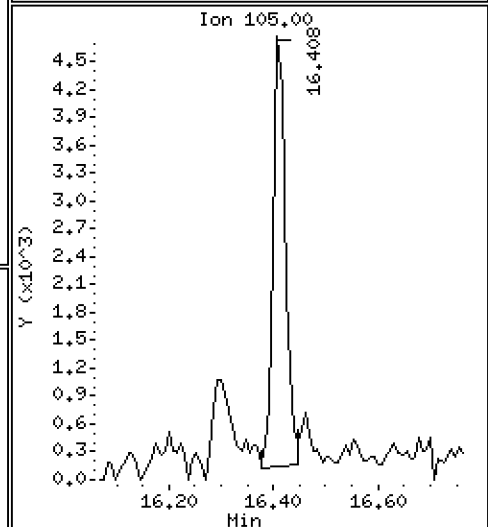
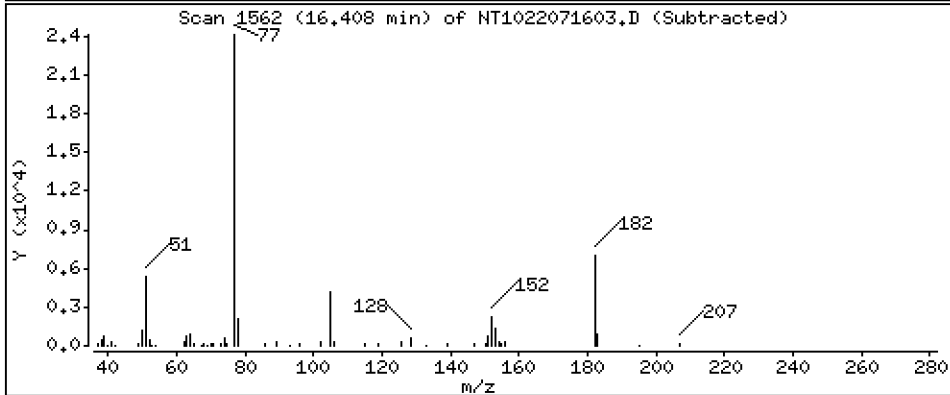
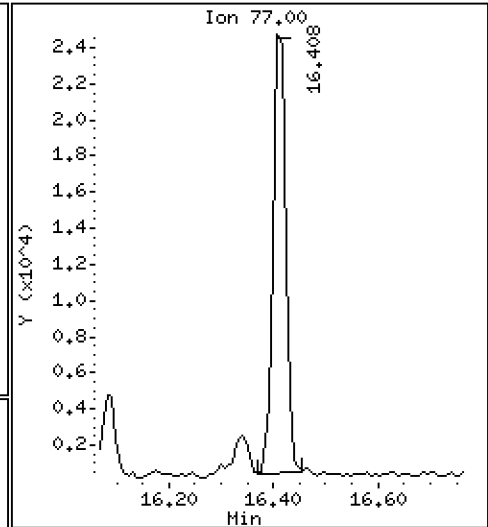
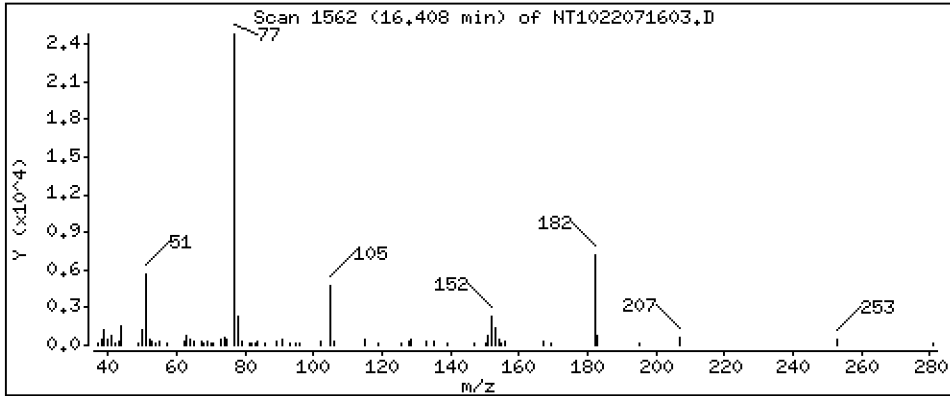
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,1258 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

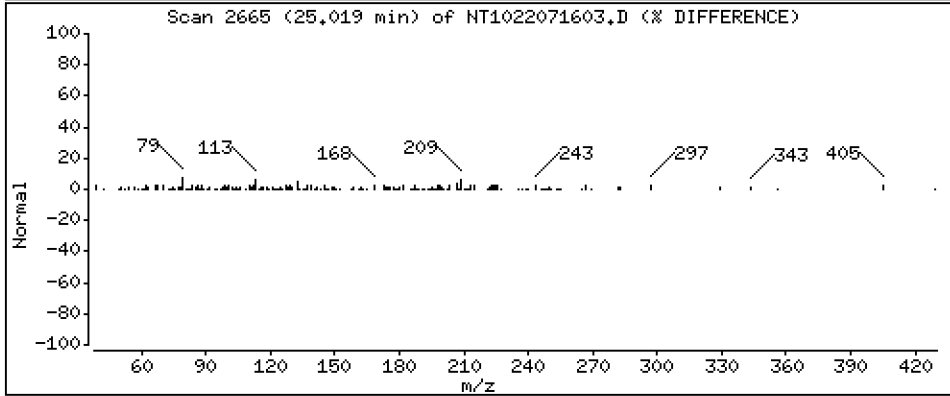
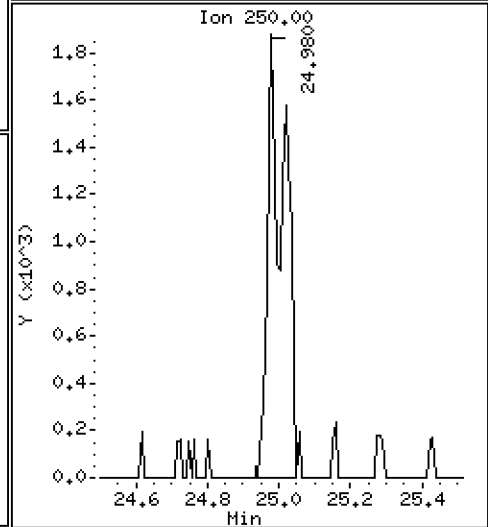
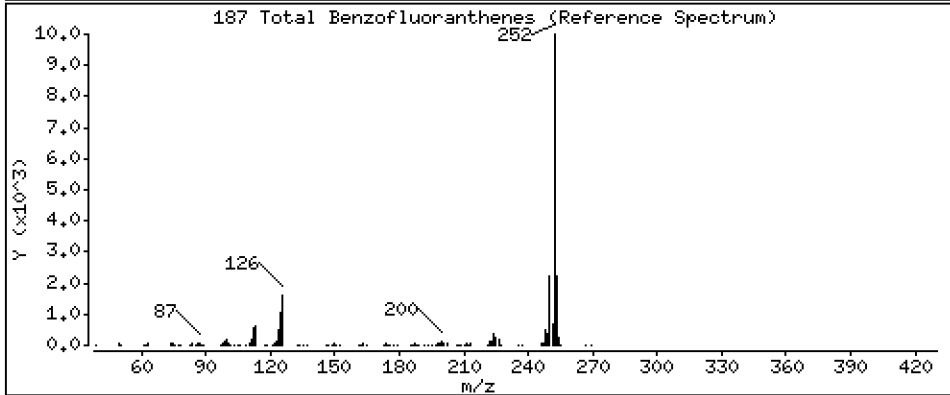
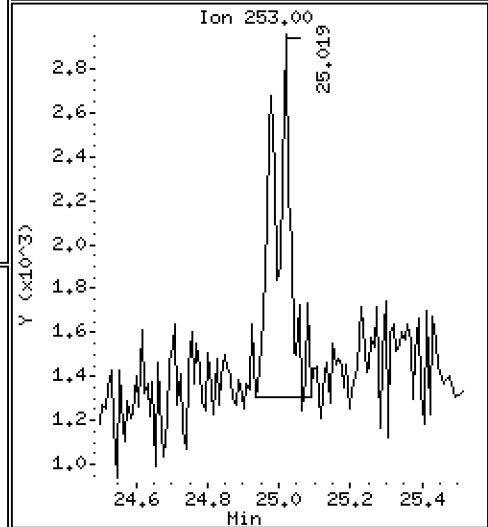
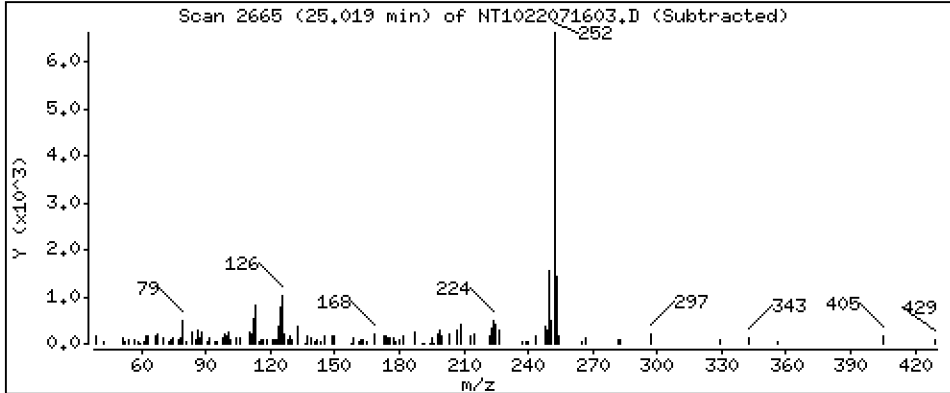
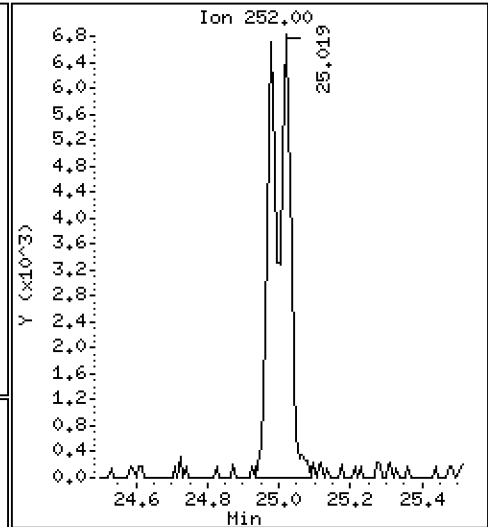
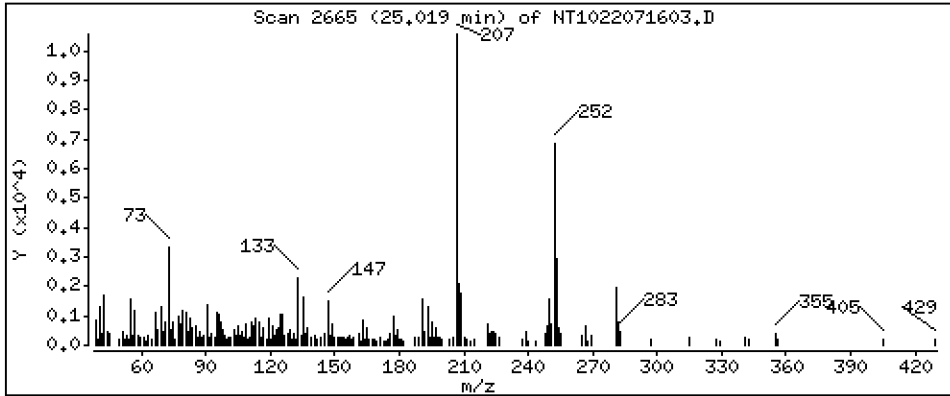
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,3563 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

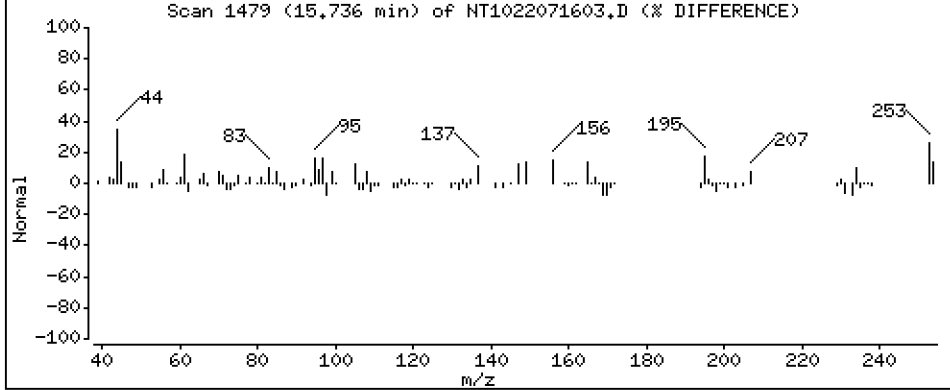
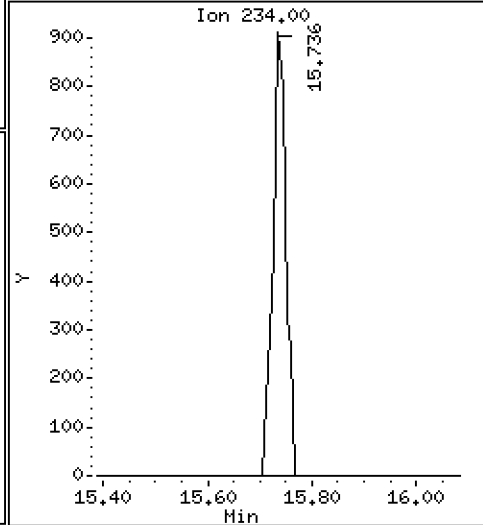
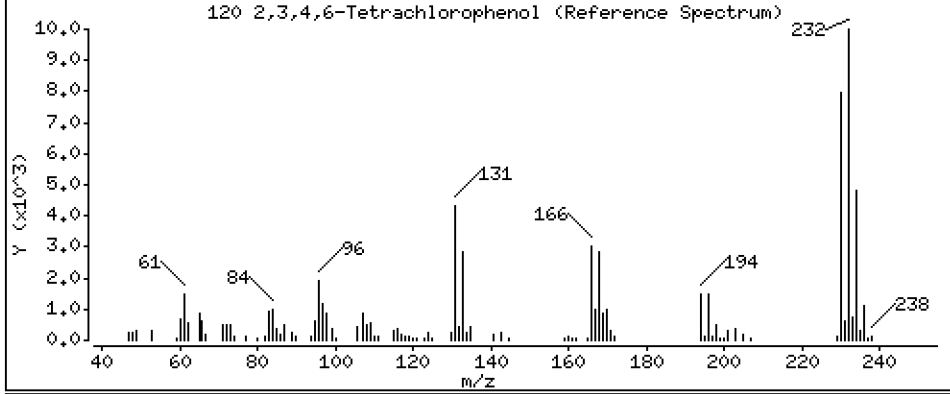
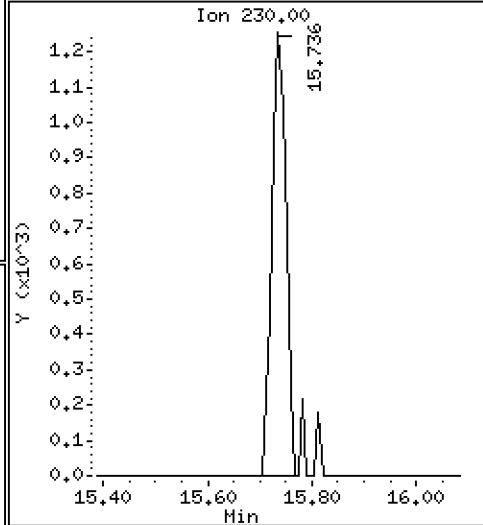
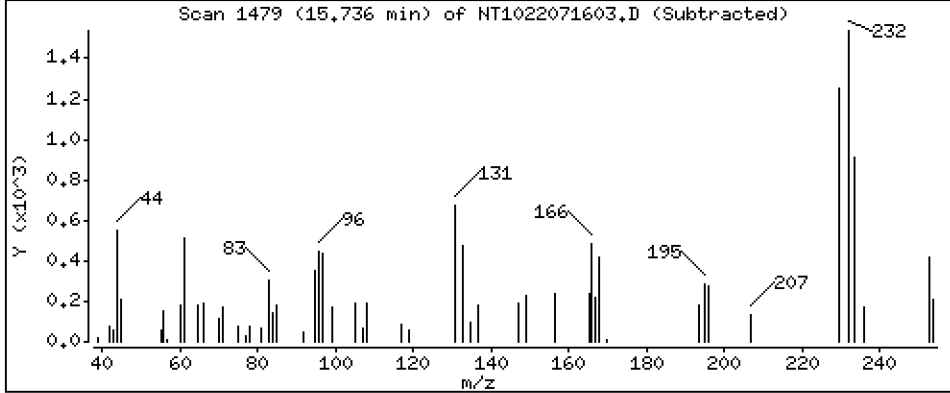
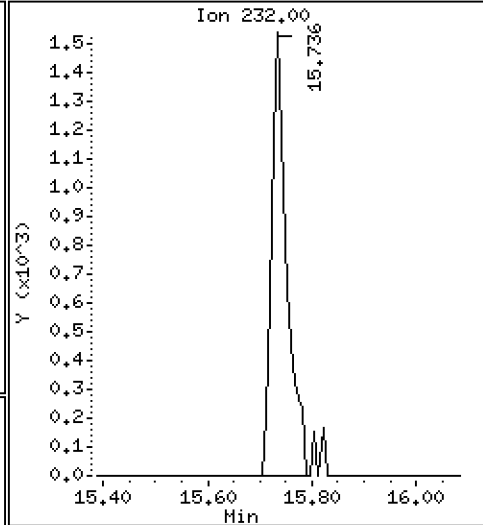
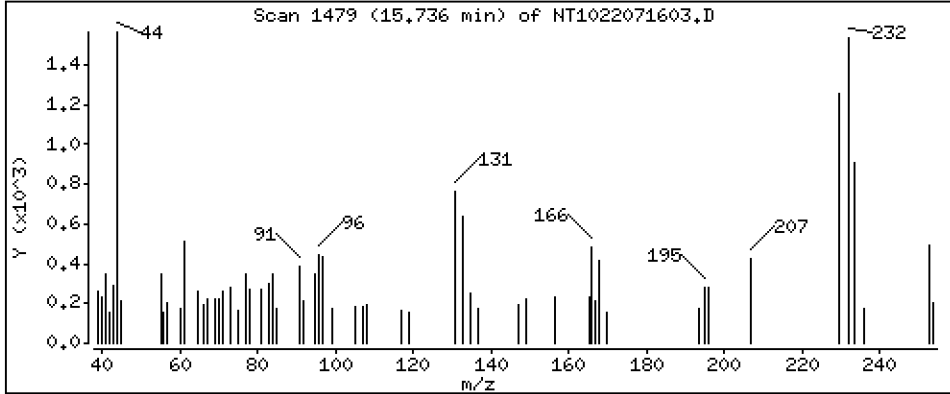
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,04442 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220716.b\NT1022071603.D
 Lab Smp Id: SKG0171-LCV1
 Inj Date : 16-JUL-2022 10:19
 Operator : VTS
 Smp Info : SKG0171-LCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220716.b\ABN.m
 Meth Date : 19-Jul-2022 10:48 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.705	6.697	(0.754)	35038	0.29588	0.2959
\$ 2 Phenol-d5	99		8.289	8.289	(0.932)	42961	0.24450	0.2445
3 Phenol	94		8.313	8.312	(0.935)	30528	0.19938	0.1994
\$ 5 2-Chlorophenol-d4	132		8.544	8.536	(0.961)	36519	0.30265	0.3026
4 Bis(2-Chloroethyl)ether	93		8.444	8.444	(0.950)	23158	0.21016	0.2102
6 2-Chlorophenol	128		8.567	8.567	(0.963)	24522	0.20089	0.2009
7 1,3-Dichlorobenzene	146		8.830	8.822	(0.993)	36884	0.27937	0.2794
* 8 1,4-Dichlorobenzene-d4	152		8.892	8.892	(1.000)	324306	4.00000	
9 1,4-Dichlorobenzene	146		8.923	8.923	(1.003)	20881	0.20064	0.2006
\$ 10 1,2-Dichlorobenzene-d4	152		9.249	9.249	(1.040)	15597	0.20977	0.2098
12 1,2-Dichlorobenzene	146		9.280	9.272	(1.044)	23929	0.21659	0.2166
11 Benzyl alcohol	108		9.171	9.171	(1.031)	12434	0.20386	0.2039
14 2,2'-oxybis(1-Chloropropane)	121		9.466	9.466	(1.065)	6657	0.25479	0.2548 (M)
13 2-Methylphenol	108		9.412	9.412	(1.058)	17302	0.18328	0.1833
17 Hexachloroethane	117		9.862	9.862	(1.109)	8659	0.18665	0.1867
16 N-Nitroso-di-n-propylamine	70		9.715	9.722	(1.093)	13123	0.19988	0.1999
15 4-Methylphenol	108		9.684	9.684	(1.089)	19626	0.19453	0.1945
\$ 18 Nitrobenzene-d5	82		9.979	9.979	(0.878)	18443	0.17481	0.1748
19 Nitrobenzene	77		10.018	10.017	(0.881)	18389	0.17294	0.1729
20 Isophorone	82		10.460	10.467	(0.920)	23953	0.15572	0.1557
21 2-Nitrophenol	139		10.646	10.646	(0.937)	9074	0.13510	0.1351
22 2,4-Dimethylphenol	107		10.717	10.716	(0.943)	31940	0.39147	0.3915
23 Bis(2-Chloroethoxy)methane	93		10.895	10.903	(0.959)	19879	0.21510	0.2151
24 Benzoic acid	105		10.929	10.954	(0.962)	1542	0.03670	0.03670 (H)
25 2,4-Dichlorophenol	162		11.116	11.115	(0.978)	29091	0.35082	0.3508
26 1,2,4-Trichlorobenzene	180		11.285	11.285	(0.993)	24424	0.27440	0.2744
* 27 Naphthalene-d8	136		11.365	11.365	(1.000)	991491	4.00000	
28 Naphthalene	128		11.411	11.411	(1.004)	46377	0.18276	0.1828
29 4-Chloroaniline	127		11.550	11.550	(1.016)	34318	0.30629	0.3063
30 Hexachlorobutadiene	225		11.774	11.774	(1.036)	11581	0.27274	0.2727
31 4-Chloro-3-methylphenol	107		12.540	12.540	(1.103)	26137	0.26756	0.2676
32 2-Methylnaphthalene	142		12.803	12.803	(1.127)	44216	0.17532	0.1753
33 Hexachlorocyclopentadiene	237							Compound Not Detected.

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.438	13.445	(0.897)	17115	0.19723	0.1972	
35 2,4,5-Trichlorophenol	196		13.531	13.523	(0.903)	19544	0.18745	0.1874	
§ 36 2-Fluorobiphenyl	172		13.585	13.592	(0.907)	47146	0.13645	0.1364	
37 2-Chloronaphthalene	162		13.794	13.801	(0.920)	40362	0.13251	0.1325	
38 2-Nitroaniline	65		14.057	14.064	(0.938)	15135	0.18576	0.1858	
39 Dimethylphthalate	163		14.490	14.498	(0.967)	37677	0.14071	0.1407	
40 Acenaphthylene	152		14.668	14.668	(0.979)	60509	0.13557	0.1356	
41 2,6-Dinitrotoluene	165		14.637	14.637	(0.977)	14169	0.22784	0.2278	
* 42 Acenaphthene-d10	164		14.986	14.978	(1.000)	763546	4.00000		
43 3-Nitroaniline	138		14.916	14.924	(0.995)	17576	0.24008	0.2401	
44 Acenaphthene	153		15.048	15.047	(1.004)	41400	0.18644	0.1864	
45 2,4-Dinitrophenol	184		Compound Not Detected.						
46 Dibenzofuran	168		15.380	15.380	(1.026)	50900	0.14423	0.1442	
47 4-Nitrophenol	109		15.303	15.295	(1.021)	3539	0.14819	0.1482 (M)	
48 2,4-Dinitrotoluene	165		15.450	15.449	(1.031)	15159	0.18238	0.1824	
50 Diethylphthalate	149		15.944	15.967	(1.064)	18397	0.08009	0.08009	
49 Fluorene	166		16.091	16.091	(1.074)	44644	0.10587	0.1059	
51 4-Chlorophenyl-phenylether	204		16.084	16.091	(1.073)	19112	0.10321	0.1032	
52 4-Nitroaniline	138		16.192	16.199	(1.080)	20541	0.28014	0.2801	
53 4,6-Dinitro-2-methylphenol	198		16.300	16.299	(0.904)	4645	0.13557	0.1356	
54 N-Nitrosodiphenylamine	169		16.338	16.346	(0.906)	34118	0.24841	0.2484	
§ 55 2,4,6-Tribromophenol	330		16.631	16.631	(1.110)	2858	0.08306	0.08306 (M)	
56 4-Bromophenyl-phenylether	248		17.094	17.094	(0.948)	13226	0.20784	0.2078	
57 Hexachlorobenzene	284		17.418	17.418	(0.966)	9105	0.14843	0.1484	
58 Pentachlorophenol	266		Compound Not Detected.						
* 59 Phenanthrene-d10	188		18.029	18.029	(1.000)	873486	4.00000		
60 Phenanthrene	178		18.076	18.083	(1.003)	41193	0.17950	0.1795	
61 Anthracene	178		18.169	18.176	(1.008)	41069	0.16794	0.1679	
62 Carbazole	167		18.509	18.517	(1.027)	42747	0.18947	0.1895	
63 Di-n-butylphthalate	149		19.329	19.337	(1.072)	51850	0.15347	0.1535	
64 Fluoranthene	202		20.490	20.497	(0.886)	61048	0.18277	0.1828	
65 Pyrene	202		20.915	20.923	(0.904)	65307	0.22347	0.2235	
§ 66 Terphenyl-d14	244		21.217	21.209	(0.917)	41307	0.24941	0.2494	
67 Butylbenzylphthalate	149		22.162	22.169	(0.958)	22775	0.23755	0.2375	
68 Benzo(a)anthracene	228		23.106	23.114	(0.999)	41070	0.20422	0.2042	
* 69 Chrysene-d12	240		23.130	23.130	(1.000)	474589	4.00000		
70 3,3'-Dichlorobenzidine	252		23.060	23.083	(0.997)	40758	0.62196	0.6220	
71 Chrysene	228		23.176	23.191	(1.002)	26055	0.19569	0.1957	
72 bis(2-Ethylhexyl)phthalate	149		23.207	23.207	(0.959)	18071	0.45783	0.4578	
* 134 Di-n-octylphthalate-d4	153		24.198	24.198	(1.000)	357102	4.00000		
73 Di-n-octylphthalate	149		24.213	24.229	(1.001)	15731	0.19381	0.1938	
74 Benzo(b)fluoranthene	252		24.980	25.003	(0.971)	13545	0.18138	0.1814	
75 Benzo(k)fluoranthene	252		25.019	25.049	(0.972)	11522	0.16046	0.1605	
76 Benzo(a)pyrene	252		25.623	25.646	(0.996)	10954	0.17922	0.1792	
* 77 Perylene-d12	264		25.731	25.723	(1.000)	164892	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.334	28.381	(1.101)	12604	0.19314	0.1931	
79 Dibenzo(a,h)anthracene	278		28.350	28.388	(1.102)	9913	0.19843	0.1984	
80 Benzo(g,h,i)perylene	276		29.088	29.150	(1.130)	10916	0.20926	0.2093	
90 N-Nitrosodimethylamine	74		4.535	4.527	(0.510)	18339	0.23669	0.2367	
91 Aniline	93		8.351	8.351	(0.939)	63237	0.41295	0.4129	
93 Benzidine	184		20.737	20.737	(0.897)	33280	0.47533	0.4753	
103 Pyridine	79		4.574	4.542	(0.514)	30109	0.13708	0.1371	
105 1-methylnaphthalene	142		13.028	13.027	(1.146)	43619	0.17605	0.1760	
111 Azobenzene (1,2-DP-Hydrazine)	77		16.408	16.415	(1.095)	38348	0.12575	0.1258	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252		25.019	25.003	(0.972)	24806	0.35626	0.3563
120 2,3,4,6-Tetrachlorophenol	232		15.736	15.735	(1.050)	2997	0.04442	0.04442

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 16-JUL-2022
 Lab File ID: NT1022071603.D Calibration Time: 09:31
 Lab Smp Id: SKG0171-LCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220716.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	222675	111338	445350	324306	45.64
27 Naphthalene-d8	784985	392493	1569970	991491	26.31
42 Acenaphthene-d10	558016	279008	1116032	763546	36.83
59 Phenanthrene-d10	687248	343624	1374496	873486	27.10
69 Chrysene-d12	262511	131256	525022	474589	80.79
134 Di-n-octylphthala	310811	155406	621622	357102	14.89
77 Perylene-d12	94855	47428	189710	164892	73.84

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.89	8.39	9.39	8.89	0.00
27 Naphthalene-d8	11.37	10.87	11.87	11.37	0.00
42 Acenaphthene-d10	14.98	14.48	15.48	14.99	0.05
59 Phenanthrene-d10	18.03	17.53	18.53	18.03	0.00
69 Chrysene-d12	23.13	22.63	23.63	23.13	0.00
134 Di-n-octylphthala	24.20	23.70	24.70	24.20	0.00
77 Perylene-d12	25.72	25.22	26.22	25.73	0.03

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

REVIEW SUMMARY FOR FILE - NT1022071603.D

Lab ID: SKG0171-LCV1
nt10.i, ABN.m, 16-JUL-2022 10:19

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.935	0.959	-0.0242	bis(2-Ethylhexyl)phthalate
0.950	1.000	-0.0504	1,4-Dichlorobenzene-d4
0.963	1.000	-0.0365	Naphthalene-d8
0.993	1.000	-0.0070	Acenaphthene-d10
1.044	1.000	0.0436	Di-n-octylphthalate-d4
1.031	1.000	0.0314	Perylene-d12
1.065	0.753	0.3114	2-Fluorophenol
1.058	0.932	0.1262	Phenol-d5
1.109	0.960	0.1491	2-Chlorophenol-d4
1.093	1.040	0.0524	1,2-Dichlorobenzene-d4
1.089	0.878	0.2110	Nitrobenzene-d5
0.881	0.907	-0.0260	2-Fluorobiphenyl
0.920	1.110	-0.1900	2,4,6-Tribromophenol
0.937	0.917	0.0198	Terphenyl-d14

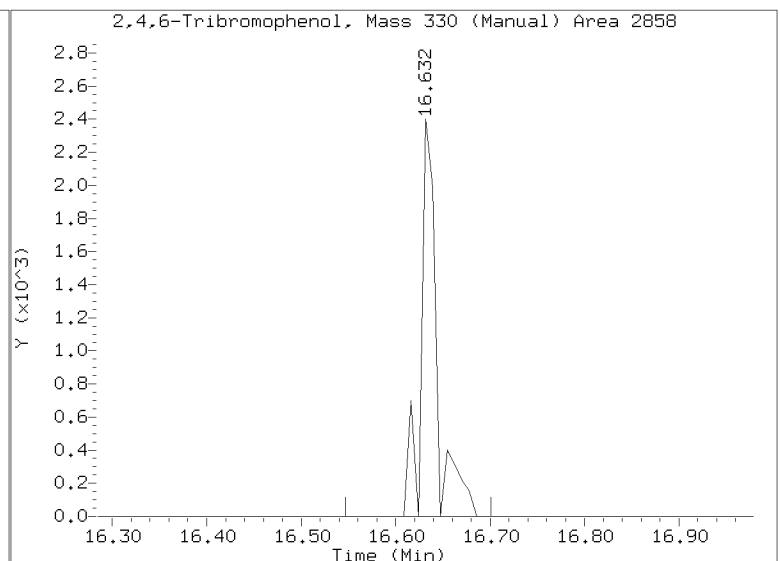
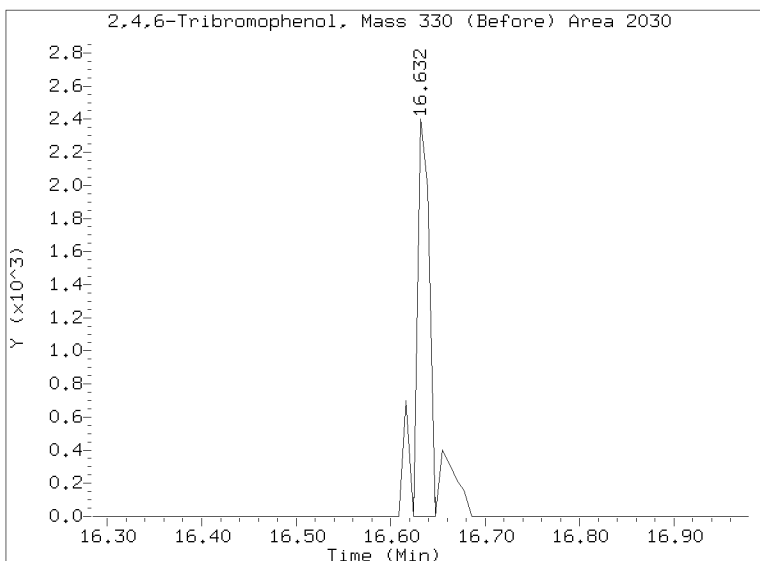
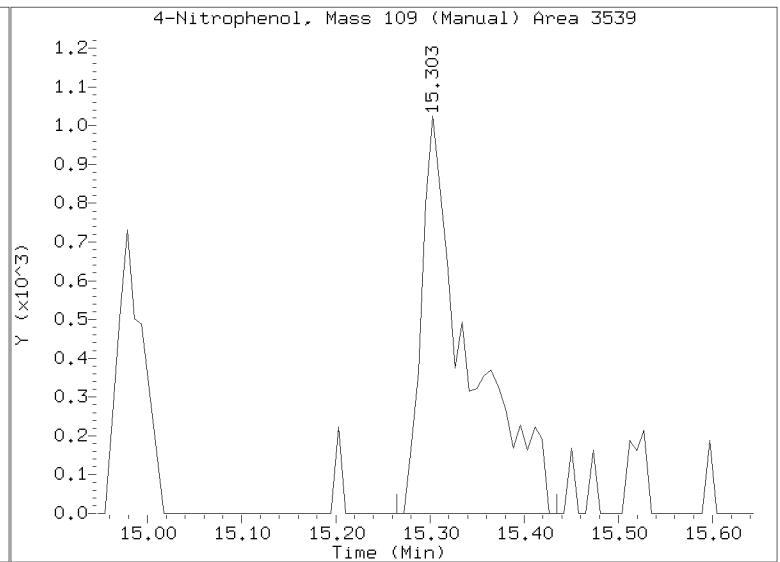
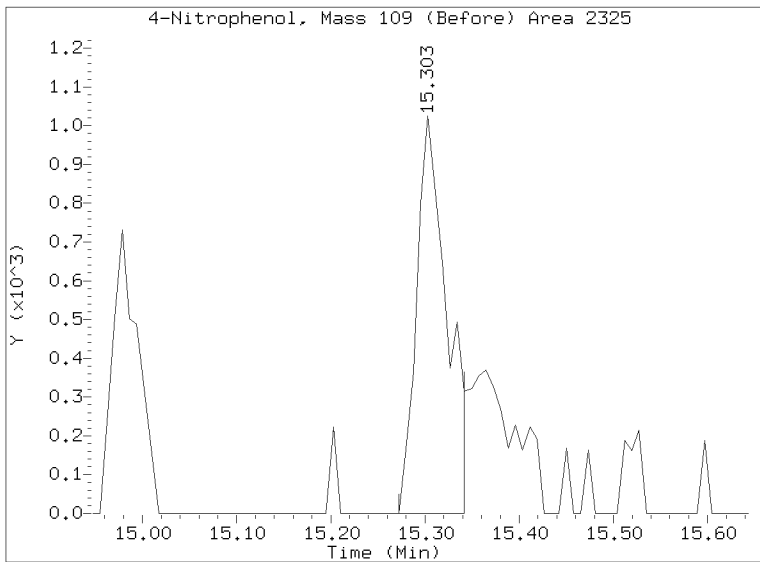
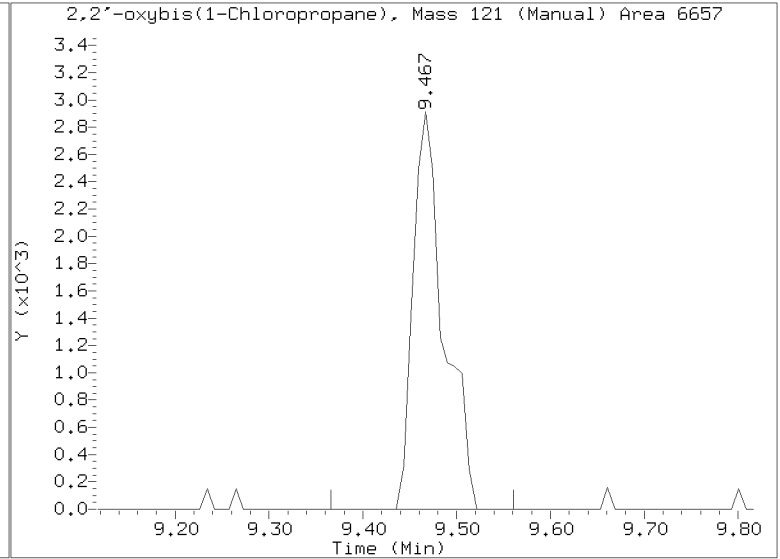
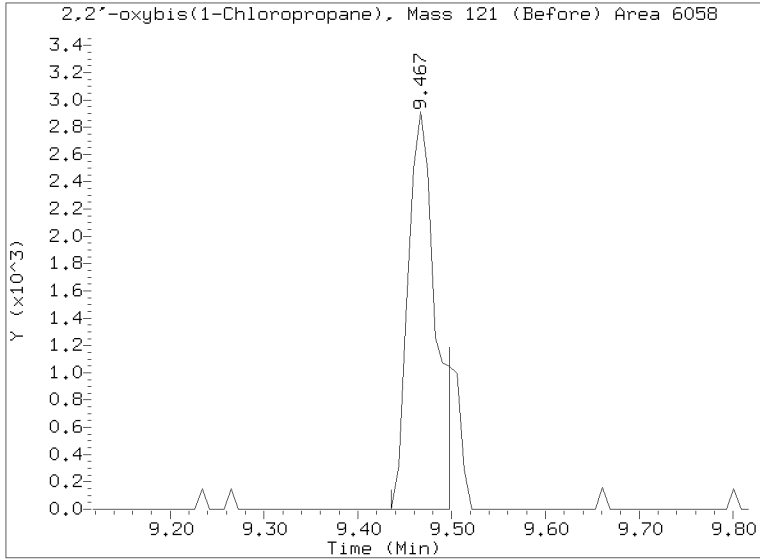
RRT check based on Ccal File: NT1022071602.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220716.b/NT1022071603.D
Injection Date: 16-JUL-2022 10:19
Lab ID:SKG0171-LCV1 Client ID:
Report Date: 07/19/2022 10:50





INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022062313.D

Calibration Date: 06/23/2022

Sequence: SKF0270

Injection Date: 06/23/22

Lab Sample ID: SKF0270-ICV1

Injection Time: 16:38

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Phenol	A	5.0000	5.1	1.8884920	1.9324470		2.3	+/-20
bis(2-chloroethyl) ether	A	5.0000	4.9	1.3591220	1.3447400		-1.1	+/-20
2-Chlorophenol	A	5.0000	4.9	1.5055700	1.4883630		-1.1	+/-20
1,3-Dichlorobenzene	A	5.0000	4.9	1.6284120	1.6069360		-1.3	+/-20
1,4-Dichlorobenzene	A	5.0000	5.1	1.2836070	1.3134160		2.3	+/-20
1,2-Dichlorobenzene	A	5.0000	5.1	1.3626570	1.3803280		1.3	+/-20
Benzyl Alcohol	A	5.0000	5.5	0.7522971	0.8256756		9.8	+/-20
2,2'-Oxybis(1-chloropropane)	A	5.0000	5.4	0.3222545	0.3476388		7.9	+/-20
2-Methylphenol	A	5.0000	5.1	1.1643690	1.1918510		2.4	+/-20
Hexachloroethane	A	5.0000	5.1	0.5721944	0.5860026		2.4	+/-20
N-Nitroso-di-n-Propylamine	A	5.0000	5.0	0.8097827	0.8109115		0.1	+/-20
4-Methylphenol	A	5.0000	5.1	1.2443490	1.2809280		2.9	+/-20
Nitrobenzene	A	5.0000	5.2	0.4289874	0.4428621		3.2	+/-20
Isophorone	A	5.0000	5.4	0.6205796	0.6699376		8.0	+/-20
2-Nitrophenol	A	5.0000	5.2	0.2709617	0.2800028		3.3	+/-20
2,4-Dimethylphenol	A	10.000	9.5	0.3291631	0.3139965		-4.6	+/-20
Bis(2-Chloroethoxy)methane	A	5.0000	4.8	0.3728438	0.3554021		-4.7	+/-20
2,4-Dichlorophenol	A	10.000	10.7	0.3345374	0.3576956		6.9	+/-20
1,2,4-Trichlorobenzene	A	5.0000	4.7	0.3494981	0.3372500		-6.1	+/-20
Naphthalene	A	5.0000	5.2	1.0237250	1.0689450		4.4	+/-20
Benzoic acid	A	20.000	16.7	0.1354719	0.1459495		-16.6	+/-20
4-Chloroaniline	A	10.000	11.6	0.4520265	0.5223109		15.5	+/-20
Hexachlorobutadiene	A	5.0000	5.2	0.1713061	0.1788034		4.4	+/-20
4-Chloro-3-Methylphenol	A	10.000	9.7	0.3652577	0.3930179		-2.8	+/-20
2-Methylnaphthalene	A	5.0000	5.4	1.0174370	1.0922310		7.4	+/-20
Hexachlorocyclopentadiene	A	10.000	8.8	0.1773971	0.2112684		-12.0	+/-20
2,4,6-Trichlorophenol	A	10.000	10.6	0.4546098	0.4799668		5.6	+/-20
2,4,5-Trichlorophenol	A	10.000	9.6	0.4787210	0.5192886		-4.1	+/-20
2-Chloronaphthalene	A	5.0000	5.2	1.5957070	1.6638960		4.3	+/-20
2-Nitroaniline	A	10.000	10.8	0.4268379	0.4597148		7.7	+/-20

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022062313.D

Calibration Date: 06/23/2022

Sequence: SKF0270

Injection Date: 06/23/22

Lab Sample ID: SKF0270-ICV1

Injection Time: 16:38

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Acenaphthylene	A	5.0000	4.6	2.3382150	2.1712350		-7.1	+/-20
Dimethylphthalate	A	5.0000	4.8	1.4027420	1.3511590		-3.7	+/-20
2,6-Dinitrotoluene	A	10.000	10.1	0.3257863	0.3302737		1.4	+/-20
Acenaphthene	A	5.0000	5.2	1.1633080	1.2003810		3.2	+/-20
3-Nitroaniline	A	10.000	9.8	0.3835195	0.3777144		-1.5	+/-20
2,4-Dinitrophenol	A	20.000	16.9	0.1087769	0.1268472		-15.6	+/-20
Dibenzofuran	A	5.0000	5.2	1.8487680	1.9137260		3.5	+/-20
4-Nitrophenol	A	10.000	9.6	0.1044372	0.1225420		-4.1	+/-20
2,4-Dinitrotoluene	A	10.000	10.8	0.4354293	0.4716538		8.3	+/-20
Fluorene	A	5.0000	4.3	2.2090760	1.9197970		-13.1	+/-20
4-Chlorophenylphenyl ether	A	5.0000	3.3	0.9701069	0.6439075		-33.6	+/-20 *
Diethyl phthalate	A	5.0000	5.1	1.2033170	1.2256130		1.9	+/-20
4-Nitroaniline	A	10.000	9.9	0.3841274	0.3804989		-0.9	+/-20
4,6-Dinitro-2-methylphenol	A	20.000	19.3	0.1197775	0.1505305		-3.6	+/-20
N-Nitrosodiphenylamine	A	5.0000	4.9	0.6289655	0.6138471		-2.4	+/-20
4-Bromophenyl phenyl ether	A	5.0000	5.2	0.2914116	0.3033543		4.1	+/-20
Hexachlorobenzene	A	5.0000	5.2	0.2851630	0.2761541		3.9	+/-20
Pentachlorophenol	A	10.000	8.1	0.0462824	0.0500148		-19.5	+/-20
Phenanthrene	A	5.0000	5.2	1.0508770	1.0881100		3.5	+/-20
Anthracene	A	5.0000	5.3	1.1198770	1.1790160		5.3	+/-20
Carbazole	A	5.0000	5.3	1.0331450	1.0856710		5.1	+/-20
Di-n-Butylphthalate	A	5.0000	5.1	1.4847320	1.6453920		2.5	+/-20
Fluoranthene	A	5.0000	4.9	2.5859780	2.8389890		-2.8	+/-20
Pyrene	A	5.0000	4.9	2.4339860	2.5108860		-2.2	+/-20
Butylbenzylphthalate	A	5.0000	5.2	0.8080700	0.8462404		4.7	+/-20
Benzo(a)anthracene	A	5.0000	5.3	1.6949770	1.7990220		6.1	+/-20
3,3'-Dichlorobenzidine	A	15.000	14.2	0.5523250	0.5219478		-5.5	+/-20
Chrysene	A	5.0000	4.8	1.1695310	1.1368770		-3.8	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	4.9	0.4421262	0.4332024		-2.0	+/-20
Di-n-Octylphthalate	A	5.0000	5.0	0.9091601	0.9097418		0.06	+/-20

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022062313.D

Calibration Date: 06/23/2022

Sequence: SKF0270

Injection Date: 06/23/22

Lab Sample ID: SKF0270-ICV1

Injection Time: 16:38

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Benzofluoranthenes, Total	A	10.000	10.8	1.6890580	1.8249480		8.0	+/-20
Benzo(a)pyrene	A	5.0000	5.1	1.4826420	1.4973310		1.0	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	5.5	1.5830350	1.7480810		10.4	+/-20
Dibenzo(a,h)anthracene	A	5.0000	5.4	1.2118700	1.3055940		7.7	+/-20
Benzo(g,h,i)perylene	A	5.0000	5.3	1.2654270	1.3358410		5.6	+/-20
1-Methylnaphthalene	A	5.0000	5.4	0.9995882	1.0738540		7.4	+/-20
2-Fluorophenol	A	7.5000	7.70	1.4606150	1.5000760		2.7	+/-20
Phenol-d5	A	7.5000	8.01	2.1672350	2.3147320		6.8	+/-20
2-Chlorophenol-d4	A	7.5000	7.45	1.4882780	1.4788940		-0.6	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	5.15	0.9170783	0.9442323		3.0	+/-20
Nitrobenzene-d5	A	5.0000	5.16	0.4256249	0.4387914		3.1	+/-20
2-Fluorobiphenyl	A	5.0000	5.11	1.8101110	1.8500500		2.2	+/-20
2,4,6-Tribromophenol	A	7.5000	7.14	0.1582114	0.1735075		-4.8	+/-20
p-Terphenyl-d14	A	5.0000	4.94	1.3958840	1.3794120		-1.2	+/-20
1,4-Dichlorobenzene-d4	A	4.0000	4.0	38854.2500	1.0000			
Naphthalene-d8	A	4.0000	4.0	122796.3000	1.0000			
Acenaphthene-d10	A	4.0000	4.0	70494.2500	1.0000			
Phenanthrene-d10	A	4.0000	4.0	124644.3000	1.0000			
Chrysene-d12	A	4.0000	4.0	65886.0000	1.0000			
Di-n-Octylphthalate-d4	A	4.0000	4.0	113292.5000	1.0000			
Perylene-d12	A	4.0000	4.0	43579.0000	1.0000			

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220623.1\NT1022062313.D

Date: 23-JUN-2022 16:38

Client ID:

Sample Info: SKF0270-ICW1

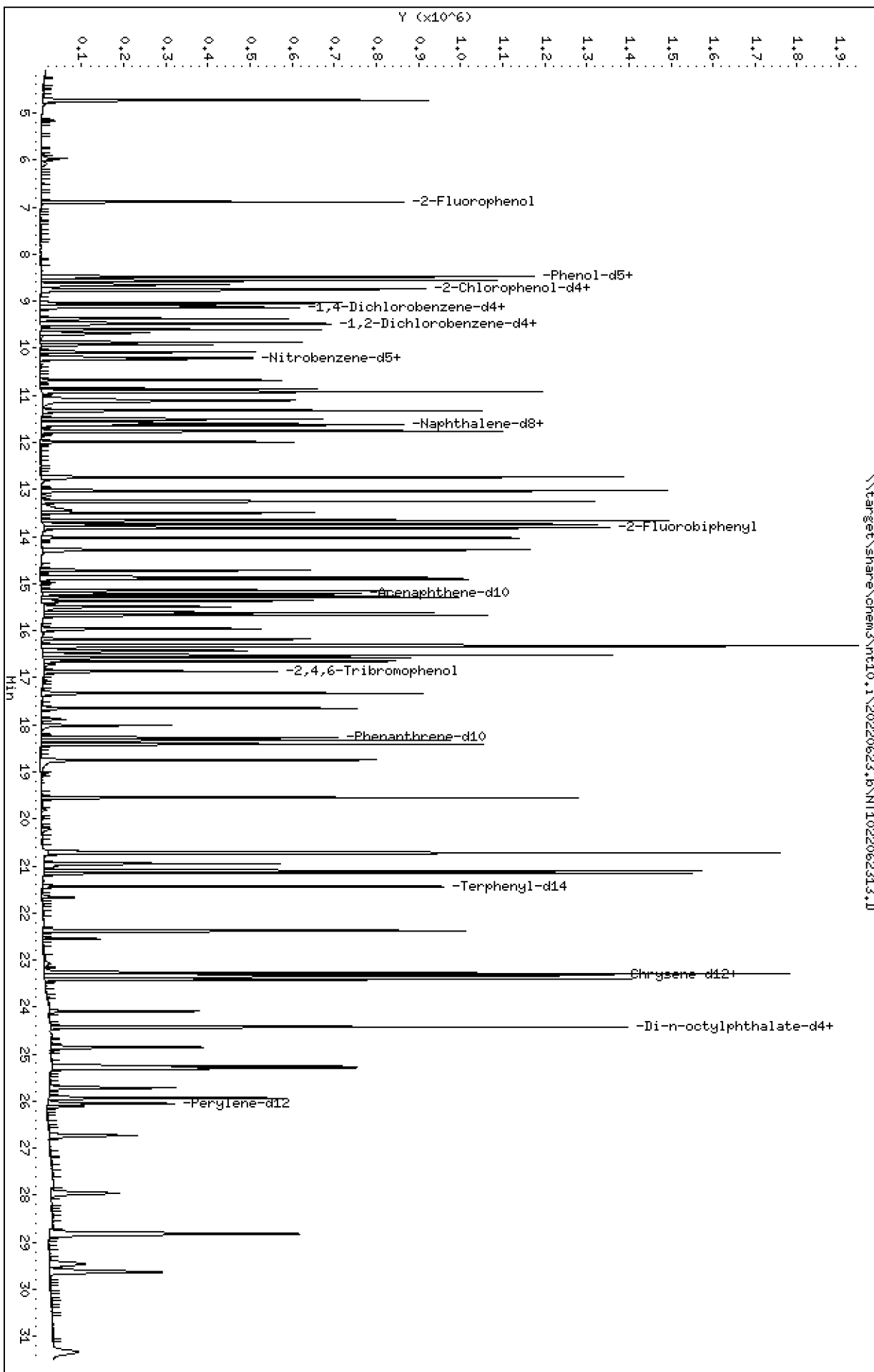
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220623.b\NT1022062313.D
 Lab Smp Id: SKF0270-ICV1
 Inj Date : 23-JUN-2022 16:38
 Operator : VTS
 Smp Info : SKF0270-ICV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Meth Date : 24-Jun-2022 14:05 yev
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT1022062308.D
 Continuing Calibration Sample
 Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.891	6.891	(0.757)	421092	7.50000	7.703
\$ 2 Phenol-d5	99		8.475	8.475	(0.931)	649777	7.50000	8.010
3 Phenol	94		8.498	8.498	(0.934)	361643	5.00000	5.116
\$ 5 2-Chlorophenol-d4	132		8.745	8.745	(0.961)	415146	7.50000	7.453
4 Bis(2-Chloroethyl)ether	93		8.645	8.645	(0.950)	251658	5.00000	4.947
6 2-Chlorophenol	128		8.776	8.776	(0.964)	278536	5.00000	4.943
7 1,3-Dichlorobenzene	146		9.039	9.039	(0.993)	300726	5.00000	4.934
* 8 1,4-Dichlorobenzene-d4	152		9.101	9.101	(1.000)	149714	4.00000	
9 1,4-Dichlorobenzene	146		9.132	9.132	(1.003)	245796	5.00000	5.116
\$ 10 1,2-Dichlorobenzene-d4	152		9.466	9.466	(1.040)	176706	5.00000	5.148
12 1,2-Dichlorobenzene	146		9.489	9.489	(1.043)	258318	5.00000	5.065
11 Benzyl alcohol	108		9.373	9.373	(1.030)	154519	5.00000	5.488
14 2,2'-oxybis(1-Chloropropane)	121		9.676	9.676	(1.063)	65058	5.00000	5.394
13 2-Methylphenol	108		9.606	9.606	(1.055)	223046	5.00000	5.118
17 Hexachloroethane	117		10.079	10.079	(1.107)	109666	5.00000	5.121
16 N-Nitroso-di-n-propylamine	70		9.924	9.924	(1.090)	151756	5.00000	5.007
15 4-Methylphenol	108		9.877	9.877	(1.085)	239716	5.00000	5.147
\$ 18 Nitrobenzene-d5	82		10.196	10.196	(0.880)	269481	5.00000	5.155
19 Nitrobenzene	77		10.227	10.227	(0.882)	271981	5.00000	5.162
20 Isophorone	82		10.677	10.677	(0.921)	411438	5.00000	5.398
21 2-Nitrophenol	139		10.859	10.859	(0.937)	171962	5.00000	5.167
22 2,4-Dimethylphenol	107		10.919	10.919	(0.942)	385678	10.0000	9.539
23 Bis(2-Chloroethoxy)methane	93		11.106	11.106	(0.958)	218268	5.00000	4.766
24 Benzoic acid	105		11.140	11.140	(0.961)	358536	20.0000	16.69
25 2,4-Dichlorophenol	162		11.326	11.326	(0.977)	439353	10.0000	10.69
26 1,2,4-Trichlorobenzene	180		11.504	11.504	(0.993)	207120	5.00000	4.696
* 27 Naphthalene-d8	136		11.589	11.589	(1.000)	491315	4.00000	
28 Naphthalene	128		11.635	11.635	(1.004)	656486	5.00000	5.221
29 4-Chloroaniline	127		11.758	11.758	(1.015)	641548	10.0000	11.55
30 Hexachlorobutadiene	225		11.990	11.990	(1.035)	109811	5.00000	5.219
31 4-Chloro-3-methylphenol	107		12.741	12.741	(1.099)	482739	10.0000	9.724
32 2-Methylnaphthalene	142		13.035	13.035	(1.125)	670787	5.00000	5.368
33 Hexachlorocyclopentadiene	237		13.499	13.499	(0.887)	151368	10.0000	8.800

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.662	13.662	(0.898)	343883	10.0000	10.56
35 2,4,5-Trichlorophenol	196	13.739	13.739	(0.903)	372056	10.0000	9.594
§ 36 2-Fluorobiphenyl	172	13.817	13.817	(0.908)	662755	5.00000	5.110
37 2-Chloronaphthalene	162	14.033	14.033	(0.922)	596068	5.00000	5.214
38 2-Nitroaniline	65	14.289	14.289	(0.939)	329373	10.0000	10.77
39 Dimethylphthalate	163	14.714	14.714	(0.967)	484034	5.00000	4.816
40 Acenaphthylene	152	14.908	14.908	(0.980)	777815	5.00000	4.643
41 2,6-Dinitrotoluene	165	14.862	14.862	(0.977)	236632	10.0000	10.14
* 42 Acenaphthene-d10	164	15.217	15.217	(1.000)	286589	4.00000	
43 3-Nitroaniline	138	15.148	15.148	(0.995)	270622	10.0000	9.849
44 Acenaphthene	153	15.287	15.287	(1.005)	430020	5.00000	5.159
45 2,4-Dinitrophenol	184	15.364	15.364	(1.010)	181765	20.0000	16.88
46 Dibenzofuran	168	15.619	15.619	(1.026)	685566	5.00000	5.176
47 4-Nitrophenol	109	15.488	15.488	(1.018)	87798	10.0000	9.588
48 2,4-Dinitrotoluene	165	15.673	15.673	(1.030)	337927	10.0000	10.83
50 Diethylphthalate	149	16.184	16.184	(1.063)	439059	5.00000	5.093
49 Fluorene	166	16.331	16.331	(1.073)	687741	5.00000	4.345
51 4-Chlorophenyl-phenylether	204	16.323	16.323	(1.073)	230671	5.00000	3.319
52 4-Nitroaniline	138	16.423	16.423	(1.079)	272617	10.0000	9.906
53 4,6-Dinitro-2-methylphenol	198	16.523	16.523	(0.904)	375438	20.0000	19.28
54 N-Nitrosodiphenylamine	169	16.570	16.570	(0.907)	382749	5.00000	4.880
§ 55 2,4,6-Tribromophenol	330	16.870	16.870	(1.109)	93235	7.50000	7.143
56 4-Bromophenyl-phenylether	248	17.333	17.333	(0.948)	189149	5.00000	5.205
57 Hexachlorobenzene	284	17.650	17.650	(0.966)	172189	5.00000	5.195
58 Pentachlorophenol	266	18.014	18.014	(0.986)	62371	10.0000	8.051 (M)
* 59 Phenanthrene-d10	188	18.277	18.277	(1.000)	498820	4.00000	
60 Phenanthrene	178	18.323	18.323	(1.003)	678464	5.00000	5.177
61 Anthracene	178	18.416	18.416	(1.008)	735146	5.00000	5.264
62 Carbazole	167	18.749	18.749	(1.026)	676943	5.00000	5.254
63 Di-n-butylphthalate	149	19.554	19.554	(1.070)	1025943	5.00000	5.124
64 Fluoranthene	202	20.722	20.722	(0.887)	1104704	5.00000	4.861
65 Pyrene	202	21.147	21.147	(0.906)	977033	5.00000	4.892
§ 66 Terphenyl-d14	244	21.441	21.441	(0.918)	536755	5.00000	4.941
67 Butylbenzylphthalate	149	22.371	22.371	(0.958)	329288	5.00000	5.236
68 Benzo(a)anthracene	228	23.331	23.331	(0.999)	700033	5.00000	5.307
* 69 Chrysene-d12	240	23.354	23.354	(1.000)	311295	4.00000	
70 3,3'-Dichlorobenzidine	252	23.284	23.284	(0.997)	609299	15.0000	14.18
71 Chrysene	228	23.400	23.400	(1.002)	442380	5.00000	4.812
72 bis(2-Ethylhexyl)phthalate	149	23.416	23.416	(0.959)	312979	5.00000	4.899
* 134 Di-n-octylphthalate-d4	153	24.422	24.422	(1.000)	577982	4.00000	
73 Di-n-octylphthalate	149	24.430	24.430	(1.000)	657268	5.00000	5.003
74 Benzo(b)fluoranthene	252	25.258	25.258	(0.970)	543761	5.00000	5.494
75 Benzo(k)fluoranthene	252	25.305	25.305	(0.971)	502729	5.00000	5.282
76 Benzo(a)pyrene	252	25.932	25.932	(0.996)	409052	5.00000	5.050
* 77 Perylene-d12	264	26.048	26.048	(1.000)	218550	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.814	28.814	(1.106)	477554	5.00000	5.521
79 Dibenzo(a,h)anthracene	278	28.830	28.830	(1.107)	356672	5.00000	5.387
80 Benzo(g,h,i)perylene	276	29.630	29.630	(1.137)	364935	5.00000	5.278
90 N-Nitrosodimethylamine	74	4.720	4.720	(0.519)	407952	10.0000	11.41
91 Aniline	93	8.560	8.560	(0.941)	691453	10.0000	9.781
93 Benzidine	184	20.954	20.954	(0.897)	400416	10.0000	8.719
103 Pyridine	79	4.736	4.736	(0.520)	512178	5.00000	5.051
105 1-methylnaphthalene	142	13.252	13.252	(1.144)	659501	5.00000	5.371
111 Azobenzene (1,2-DP-Hydrazine)	77	16.647	16.647	(1.094)	562132	5.00000	4.911

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	
187 Total Benzofluoranthenes	252		25.305	25.305	(0.971)	997106	10.0000	10.80
120 2,3,4,6-Tetrachlorophenol	232		15.959	15.959	(1.049)	121600	5.00000	4.866

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-JUN-2022
 Lab File ID: NT1022062313.D Calibration Time: 09:16
 Lab Smp Id: SKF0270-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	149714	74857	299428	149714	0.00
27 Naphthalene-d8	491315	245658	982630	491315	0.00
42 Acenaphthene-d10	286589	143295	573178	286589	0.00
59 Phenanthrene-d10	498820	249410	997640	498820	0.00
69 Chrysene-d12	311295	155648	622590	311295	0.00
134 Di-n-octylphthala	577982	288991	1155964	577982	0.00
77 Perylene-d12	218550	109275	437100	218550	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.10	0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.59	0.00
42 Acenaphthene-d10	15.22	14.72	15.72	15.22	0.00
59 Phenanthrene-d10	18.28	17.78	18.78	18.28	0.00
69 Chrysene-d12	23.35	22.85	23.85	23.35	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.05	25.55	26.55	26.05	0.00

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

REVIEW SUMMARY FOR FILE - NT1022062313.D

Lab ID: SKF0270-ICV1
nt10.i, ABN.m, 23-JUN-2022 16:38

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

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

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

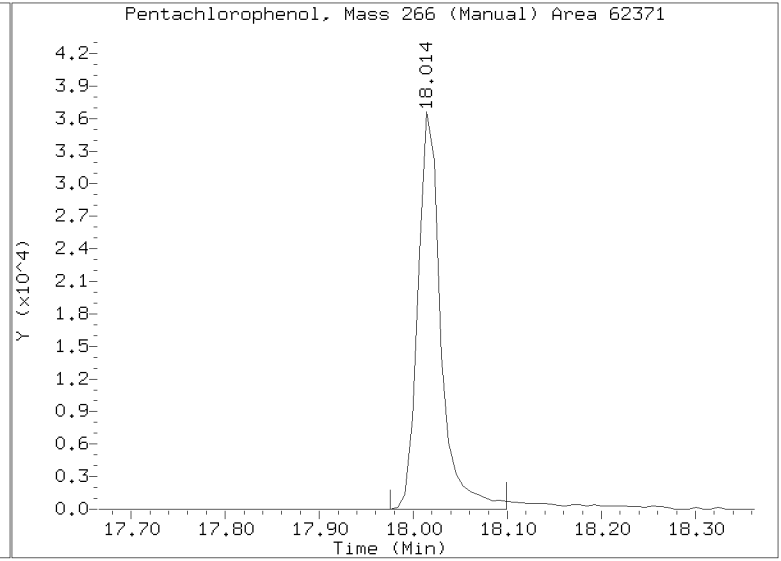
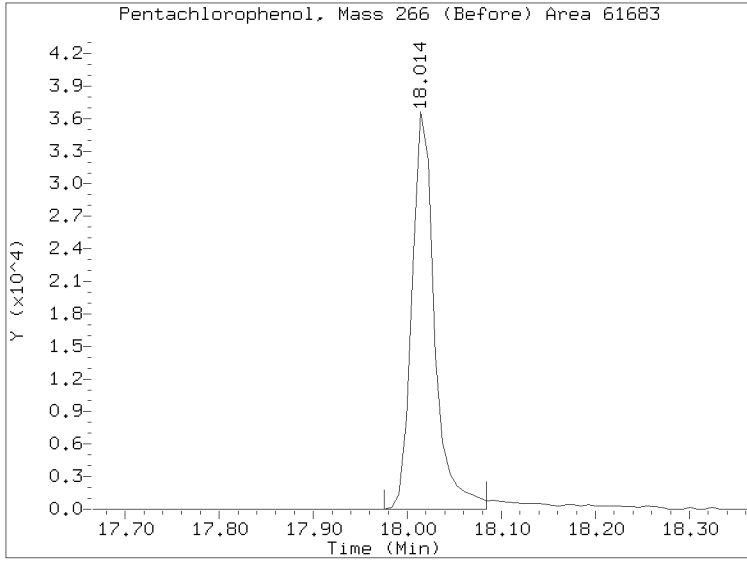
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220623.b/NT1022062313.D

Injection Date: 23-JUN-2022 16:38

Lab ID:SKF0270-ICV1 Client ID:

Report Date: 06/24/2022 14:05



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20220623.b

Instrument: nt10.i Date: 23-JUN-2022 Method: ABN.m

INITIAL CAL: 23-JUN-2022

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: NT1022062313.D 23-JUN-2022 16:38

Compound	%D

4-Chlorophenyl-phenylether	-33.63



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071402.D

Calibration Date: 06/23/2022

Sequence: SKG0139

Injection Date: 07/14/22

Lab Sample ID: SKG0139-ICV1

Injection Time: 14:12

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Naphthalene	A	5.0000	5.6	1.0237250	1.1420210		11.6	+/-20
2-Methylnaphthalene	A	5.0000	5.8	1.0174370	1.1880680		16.8	+/-20
Acenaphthene	A	5.0000	5.6	1.1633080	1.3017360		11.9	+/-20
Pentachlorophenol	A	10.000	6.8	0.0462824	0.0419399		-32.1	+/-20 *
Phenanthrene	A	5.0000	5.6	1.0508770	1.1821980		12.5	+/-20
Fluoranthene	A	5.0000	6.8	2.5859780	4.0326760		35.8	+/-20 *
Benzo(a)anthracene	A	5.0000	5.2	1.6949770	1.7747500		4.7	+/-20
Chrysene	A	5.0000	5.9	1.1695310	1.4034580		17.3	+/-20
Benzo(b)fluoranthene	A	5.0000	5.1	1.8115340	1.8351980		1.3	+/-20
Benzo(k)fluoranthene	A	5.0000	5.3	1.7419410	1.8416360		5.7	+/-20
Benzo(a)pyrene	A	5.0000	5.3	1.4826420	1.5638910		5.5	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	4.8	1.5830350	1.5139930		-4.4	+/-20
Dibenzo(a,h)anthracene	A	5.0000	5.0	1.2118700	1.2130760		0.1	+/-20
1-Methylnaphthalene	A	5.0000	5.8	0.9995882	1.1567140		15.7	+/-20
2-Fluorophenol	A	7.5000	7.80	1.4606150	1.5184620		4.0	+/-20
Phenol-d5	A	7.5000	7.75	2.1672350	2.2386790		3.3	+/-20
2-Chlorophenol-d4	A	7.5000	7.83	1.4882780	1.5528230		4.3	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	5.40	0.9170783	0.9908709		8.0	+/-20
Nitrobenzene-d5	A	5.0000	5.42	0.4256249	0.4612359		8.4	+/-20
2-Fluorobiphenyl	A	5.0000	5.51	1.8101110	1.9958020		10.3	+/-20
2,4,6-Tribromophenol	A	7.5000	7.85	0.1582114	0.1909448		4.7	+/-20
p-Terphenyl-d14	A	5.0000	6.75	1.3958840	1.8847790		35.0	+/-20 *
1,4-Dichlorobenzene-d4	A	4.0000	4.0	38854.2500	1.0000			
Naphthalene-d8	A	4.0000	4.0	122796.3000	1.0000			
Acenaphthene-d10	A	4.0000	4.0	70494.2500	1.0000			
Phenanthrene-d10	A	4.0000	4.0	124644.3000	1.0000			
Chrysene-d12	A	4.0000	4.0	65886.0000	1.0000			
Di-n-Octylphthalate-d4	A	4.0000	4.0	113292.5000	1.0000			
Perylene-d12	A	4.0000	4.0	43579.0000	1.0000			

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220714.6\NT1022071402.D

Date: 14-JUL-2022 14:12

Client ID:

Sample Info: SKC0139-ICW1

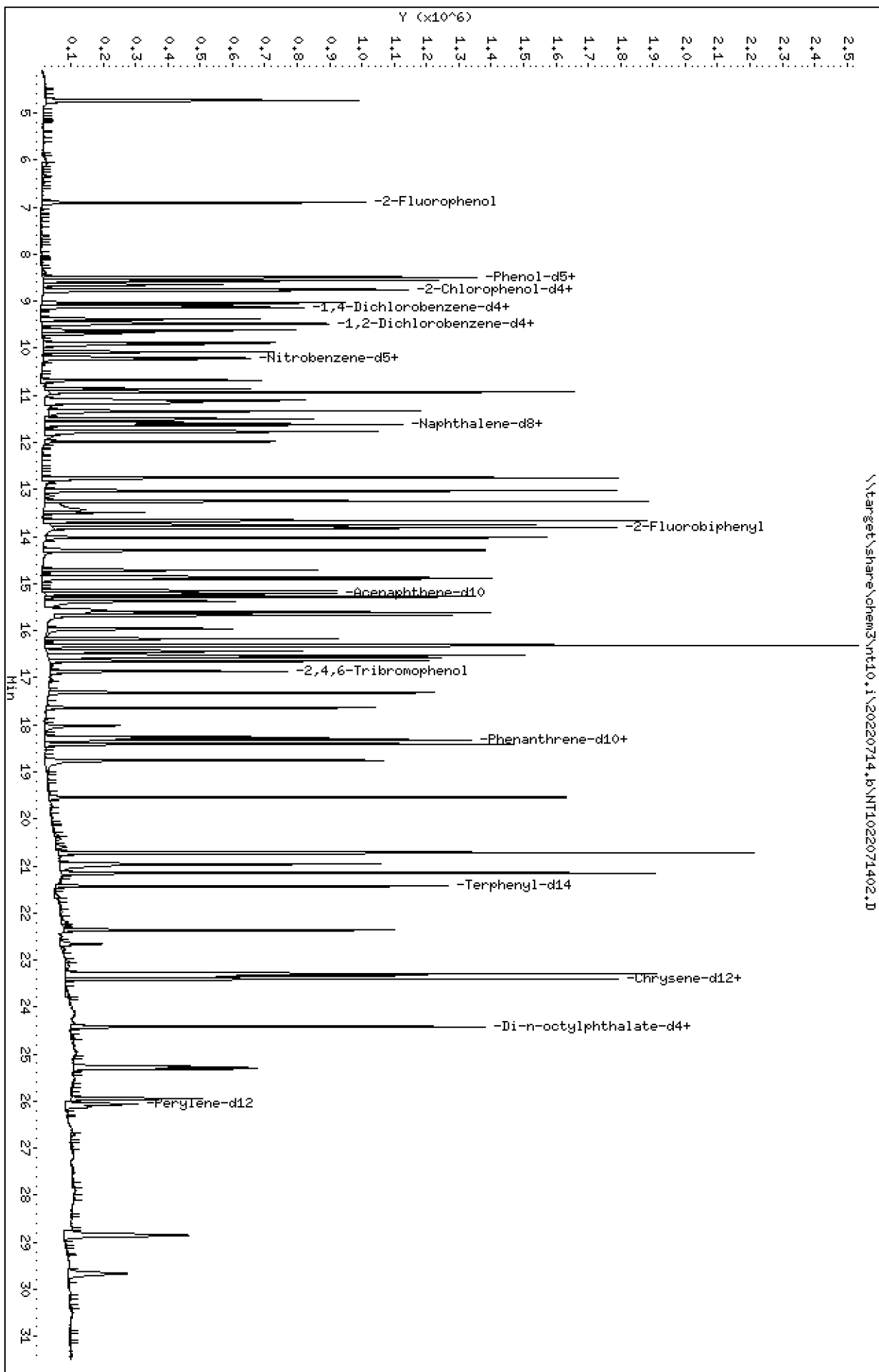
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071402.D
 Lab Smp Id: SKG0139-ICV1
 Inj Date : 14-JUL-2022 14:12
 Operator : VTS
 Smp Info : SKG0139-ICV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 14-Jul-2022 14:47 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT1022062308.D
 Continuing Calibration Sample
 Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.906	6.906	(0.759)	557565	7.50000	7.797
\$ 2 Phenol-d5	99		8.490	8.490	(0.933)	822022	7.50000	7.747
3 Phenol	94		8.513	8.513	(0.935)	464973	5.00000	5.029
\$ 5 2-Chlorophenol-d4	132		8.753	8.753	(0.962)	570182	7.50000	7.825
4 Bis(2-Chloroethyl)ether	93		8.645	8.645	(0.950)	346553	5.00000	5.208
6 2-Chlorophenol	128		8.776	8.776	(0.964)	379532	5.00000	5.149
7 1,3-Dichlorobenzene	146		9.039	9.039	(0.993)	407648	5.00000	5.113
* 8 1,4-Dichlorobenzene-d4	152		9.101	9.101	(1.000)	195835	4.00000	
9 1,4-Dichlorobenzene	146		9.132	9.132	(1.003)	338256	5.00000	5.382
\$ 10 1,2-Dichlorobenzene-d4	152		9.466	9.466	(1.040)	242559	5.00000	5.402
12 1,2-Dichlorobenzene	146		9.489	9.489	(1.043)	350081	5.00000	5.247
11 Benzyl alcohol	108		9.380	9.380	(1.031)	205749	5.00000	5.586
14 2,2'-oxybis(1-Chloropropane)	121		9.668	9.668	(1.062)	81248	5.00000	5.150
13 2-Methylphenol	108		9.613	9.613	(1.056)	301686	5.00000	5.292
17 Hexachloroethane	117		10.079	10.079	(1.107)	156199	5.00000	5.576
16 N-Nitroso-di-n-propylamine	70		9.924	9.924	(1.090)	193130	5.00000	4.871
15 4-Methylphenol	108		9.885	9.885	(1.086)	317175	5.00000	5.206
\$ 18 Nitrobenzene-d5	82		10.195	10.195	(0.880)	360939	5.00000	5.418
19 Nitrobenzene	77		10.227	10.227	(0.882)	356857	5.00000	5.315
20 Isophorone	82		10.677	10.677	(0.921)	609967	5.00000	6.280
21 2-Nitrophenol	139		10.859	10.859	(0.937)	238804	5.00000	5.631
22 2,4-Dimethylphenol	107		10.927	10.927	(0.943)	566005	10.0000	10.99
23 Bis(2-Chloroethoxy)methane	93		11.106	11.106	(0.958)	292830	5.00000	5.018
24 Benzoic acid	105		11.165	11.165	(0.963)	611509	20.0000	22.10
25 2,4-Dichlorophenol	162		11.335	11.335	(0.978)	550727	10.0000	10.52
26 1,2,4-Trichlorobenzene	180		11.504	11.504	(0.993)	273663	5.00000	4.869
* 27 Naphthalene-d8	136		11.589	11.589	(1.000)	626038	4.00000	
28 Naphthalene	128		11.627	11.627	(1.003)	893686	5.00000	5.578
29 4-Chloroaniline	127		11.766	11.766	(1.015)	801190	10.0000	11.32
30 Hexachlorobutadiene	225		11.990	11.990	(1.035)	147965	5.00000	5.519
31 4-Chloro-3-methylphenol	107		12.749	12.749	(1.100)	697084	10.0000	10.98
32 2-Methylnaphthalene	142		13.027	13.027	(1.124)	929720	5.00000	5.839
33 Hexachlorocyclopentadiene	237		13.492	13.492	(0.887)	65477	10.0000	3.081

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.662	13.662	(0.898)	494241	10.0000	11.86
35 2,4,5-Trichlorophenol	196	13.755	13.755	(0.904)	543652	10.0000	10.97
\$ 36 2-Fluorobiphenyl	172	13.809	13.809	(0.908)	914606	5.00000	5.513
37 2-Chloronaphthalene	162	14.026	14.026	(0.922)	828527	5.00000	5.665
38 2-Nitroaniline	65	14.289	14.289	(0.939)	453827	10.0000	11.60
39 Dimethylphthalate	163	14.714	14.714	(0.967)	650502	5.00000	5.060
40 Acenaphthylene	152	14.900	14.900	(0.980)	1152675	5.00000	5.379
41 2,6-Dinitrotoluene	165	14.862	14.862	(0.977)	355900	10.0000	11.92
* 42 Acenaphthene-d10	164	15.210	15.210	(1.000)	366612	4.00000	
43 3-Nitroaniline	138	15.156	15.156	(0.996)	378557	10.0000	10.77
44 Acenaphthene	153	15.279	15.279	(1.005)	596540	5.00000	5.595
45 2,4-Dinitrophenol	184	15.372	15.372	(1.011)	262007	20.0000	18.92
46 Dibenzofuran	168	15.612	15.612	(1.026)	980998	5.00000	5.789
47 4-Nitrophenol	109	15.565	15.565	(1.023)	87556	10.0000	7.510
48 2,4-Dinitrotoluene	165	15.681	15.681	(1.031)	486964	10.0000	12.20
50 Diethylphthalate	149	16.176	16.176	(1.064)	604289	5.00000	5.479
49 Fluorene	166	16.323	16.323	(1.073)	727257	5.00000	3.592
51 4-Chlorophenyl-phenylether	204	16.323	16.323	(1.073)	178161	5.00000	2.004
52 4-Nitroaniline	138	16.439	16.439	(1.081)	431686	10.0000	12.26
53 4,6-Dinitro-2-methylphenol	198	16.531	16.531	(0.905)	505178	20.0000	20.38
54 N-Nitrosodiphenylamine	169	16.570	16.570	(0.907)	515164	5.00000	5.158
\$ 55 2,4,6-Tribromophenol	330	16.870	16.870	(1.109)	131255	7.50000	7.852
56 4-Bromophenyl-phenylether	248	17.318	17.318	(0.948)	259666	5.00000	5.612
57 Hexachlorobenzene	284	17.642	17.642	(0.966)	220732	5.00000	5.233
58 Pentachlorophenol	266	18.022	18.022	(0.986)	66594	10.0000	6.793
* 59 Phenanthrene-d10	188	18.269	18.269	(1.000)	635137	4.00000	
60 Phenanthrene	178	18.316	18.316	(1.003)	938572	5.00000	5.625
61 Anthracene	178	18.416	18.416	(1.008)	1058033	5.00000	5.950
62 Carbazole	167	18.757	18.757	(1.027)	1040611	5.00000	6.343
63 Di-n-butylphthalate	149	19.546	19.546	(1.070)	1476495	5.00000	5.762
64 Fluoranthene	202	20.722	20.722	(0.887)	1364950	5.00000	6.792
65 Pyrene	202	21.147	21.147	(0.905)	1285669	5.00000	7.235
\$ 66 Terphenyl-d14	244	21.434	21.434	(0.917)	637946	5.00000	6.751
67 Butylbenzylphthalate	149	22.363	22.363	(0.957)	365767	5.00000	6.687
68 Benzo(a)anthracene	228	23.331	23.331	(0.999)	600704	5.00000	5.235
* 69 Chrysene-d12	240	23.362	23.362	(1.000)	270778	4.00000	
70 3,3'-Dichlorobenzidine	252	23.292	23.292	(0.997)	656639	15.0000	17.56
71 Chrysene	228	23.408	23.408	(1.002)	475032	5.00000	5.865
72 bis(2-Ethylhexyl)phthalate	149	23.400	23.400	(0.959)	390666	5.00000	6.971
* 134 Di-n-octylphthalate-d4	153	24.407	24.407	(1.000)	507031	4.00000	
73 Di-n-octylphthalate	149	24.422	24.422	(1.001)	647740	5.00000	5.621
74 Benzo(b)fluoranthene	252	25.266	25.266	(0.969)	390225	5.00000	5.065
75 Benzo(k)fluoranthene	252	25.313	25.313	(0.971)	391594	5.00000	5.286
76 Benzo(a)pyrene	252	25.948	25.948	(0.996)	332536	5.00000	5.274
* 77 Perylene-d12	264	26.064	26.064	(1.000)	170107	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.845	28.845	(1.107)	321926	5.00000	4.782
79 Dibenzo(a,h)anthracene	278	28.853	28.853	(1.107)	257941	5.00000	5.005
80 Benzo(g,h,i)perylene	276	29.661	29.661	(1.138)	283378	5.00000	5.266
90 N-Nitrosodimethylamine	74	4.720	4.720	(0.519)	454810	10.0000	9.721
91 Aniline	93	8.560	8.560	(0.941)	862104	10.0000	9.323
93 Benzidine	184	20.962	20.962	(0.897)	865858	10.0000	21.68
103 Pyridine	79	4.743	4.743	(0.521)	607664	5.00000	4.582
105 1-methylnaphthalene	142	13.252	13.252	(1.144)	905184	5.00000	5.786
111 Azobenzene (1,2-DP-Hydrazine)	77	16.639	16.639	(1.094)	777165	5.00000	5.308

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252		25.313	25.313	(0.971)	744003	10.0000	10.36
120 2,3,4,6-Tetrachlorophenol	232		15.959	15.959	(1.049)	160450	5.00000	5.021

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 09-JUL-2022
 Lab File ID: NT1022071402.D Calibration Time: 12:38
 Lab Smp Id: SKG0139-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	163836	81918	327672	195835	19.53
27 Naphthalene-d8	537891	268946	1075782	626038	16.39
42 Acenaphthene-d10	314737	157369	629474	366612	16.48
59 Phenanthrene-d10	550120	275060	1100240	635137	15.45
69 Chrysene-d12	165340	82670	330680	270778	63.77
134 Di-n-octylphthala	340905	170453	681810	507031	48.73
77 Perylene-d12	117366	58683	234732	170107	44.94

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.08
27 Naphthalene-d8	11.60	11.10	12.10	11.59	-0.13
42 Acenaphthene-d10	15.23	14.73	15.73	15.21	-0.15
59 Phenanthrene-d10	18.29	17.79	18.79	18.27	-0.13
69 Chrysene-d12	23.39	22.89	23.89	23.36	-0.10
134 Di-n-octylphthala	24.45	23.95	24.95	24.41	-0.16
77 Perylene-d12	26.11	25.61	26.61	26.06	-0.18

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

REVIEW SUMMARY FOR FILE - NT1022071402.D

Lab ID: SKG0139-ICV1
nt10.i, ABN.m, 14-JUL-2022 14:12

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

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

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

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20220714.b

Instrument: nt10.i Date: 14-JUL-2022 Method: ABN.m

INITIAL CAL: 23-JUN-2022

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: NT1022071402.D 14-JUL-2022 14:12

Compound	%D

Isophorone	25.60
Hexachlorocyclopentadiene	-69.2
4-Nitrophenol	-24.9
2,4-Dinitrotoluene	22.02
Fluorene	-28.16
4-Chlorophenyl-phenylether	-59.92
4-Nitroaniline	22.62
Pentachlorophenol	-32.1
Carbazole	26.87
Fluoranthene	35.8
Pyrene	44.7
Butylbenzylphthalate	33.73
bis(2-Ethylhexyl)phthalate	39.42
Benzidine	116.75
Terphenyl-d14	35.02



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071502.D

Calibration Date: 06/23/2022

Sequence: SKG0154

Injection Date: 07/15/22

Lab Sample ID: SKG0154-ICV1

Injection Time: 12:41

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Naphthalene	A	5.0000	5.3	1.0237250	1.0799740		5.5	+/-20
2-Methylnaphthalene	A	5.0000	5.7	1.0174370	1.1521510		13.2	+/-20
Acenaphthene	A	5.0000	5.3	1.1633080	1.2366740		6.3	+/-20
Pentachlorophenol	A	10.000	7.0	0.0462824	0.0433167		-29.9	+/-20 *
Phenanthrene	A	5.0000	5.2	1.0508770	1.1012710		4.8	+/-20
Fluoranthene	A	5.0000	6.2	2.5859780	3.6332640		23.1	+/-20 *
Benzo(a)anthracene	A	5.0000	4.5	1.6949770	1.5396550		-9.2	+/-20
Chrysene	A	5.0000	3.5	1.1695310	0.8255612		-29.1	+/-20 *
Benzo(b)fluoranthene	A	5.0000	4.7	1.8115340	1.7143130		-5.4	+/-20
Benzo(k)fluoranthene	A	5.0000	4.6	1.7419410	1.6000760		-8.1	+/-20
Benzo(a)pyrene	A	5.0000	4.3	1.4826420	1.2867400		-13.2	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	5.1	1.5830350	1.6055190		1.4	+/-20
Dibenzo(a,h)anthracene	A	5.0000	5.3	1.2118700	1.2856		6.1	+/-20
1-Methylnaphthalene	A	5.0000	5.3	0.9995882	1.0655580		6.6	+/-20
2-Fluorophenol	A	7.5000	7.44	1.4606150	1.4497400		-0.7	+/-20
Phenol-d5	A	7.5000	7.95	2.1672350	2.2982810		6.1	+/-20
2-Chlorophenol-d4	A	7.5000	7.60	1.4882780	1.5075030		1.3	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	5.16	0.9170783	0.9457790		3.1	+/-20
Nitrobenzene-d5	A	5.0000	5.11	0.4256249	0.4350611		2.2	+/-20
2-Fluorobiphenyl	A	5.0000	5.37	1.8101110	1.9445300		7.4	+/-20
2,4,6-Tribromophenol	A	7.5000	8.01	0.1582114	0.1948468		6.8	+/-20
p-Terphenyl-d14	A	5.0000	6.08	1.3958840	1.6966010		21.5	+/-20 *
1,4-Dichlorobenzene-d4	A	4.0000	4.0	38854.2500	1.0000			
Naphthalene-d8	A	4.0000	4.0	122796.3000	1.0000			
Acenaphthene-d10	A	4.0000	4.0	70494.2500	1.0000			
Phenanthrene-d10	A	4.0000	4.0	124644.3000	1.0000			
Chrysene-d12	A	4.0000	4.0	65886.0000	1.0000			
Di-n-Octylphthalate-d4	A	4.0000	4.0	113292.5000	1.0000			
Perylene-d12	A	4.0000	4.0	43579.0000	1.0000			

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220715.6\NT1022071502.D

Date: 15-JUL-2022 12:41

Client ID:

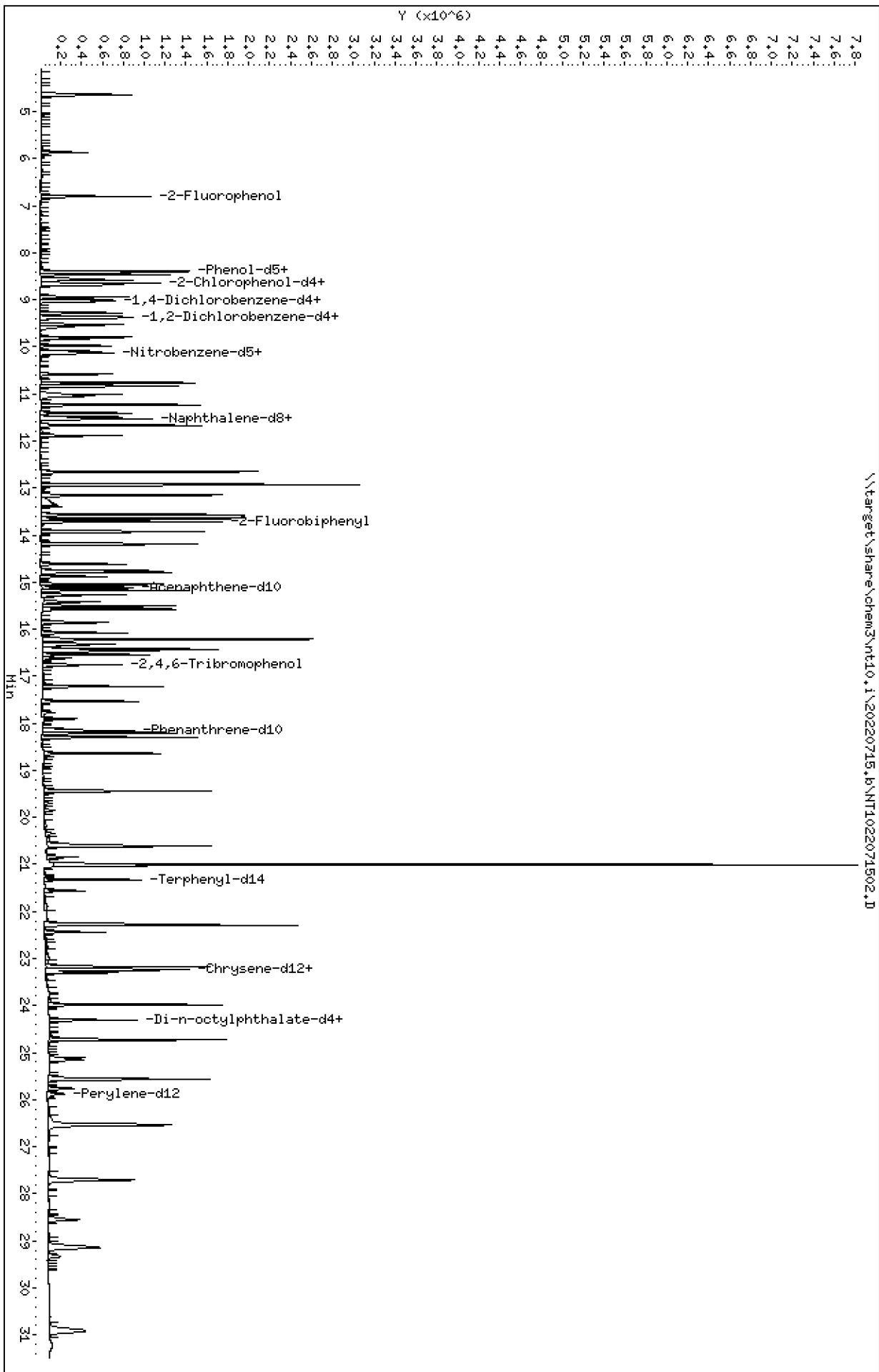
Sample Info: SKC0154-ICW1

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071502.D
 Lab Smp Id: SKG0154-ICV1
 Inj Date : 15-JUL-2022 12:41
 Operator : VTS
 Smp Info : SKG0154-ICV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT1022062308.D
 Continuing Calibration Sample
 Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.806	6.806	(0.756)	547833	7.50000	7.444
\$ 2 Phenol-d5	99		8.398	8.398	(0.933)	868483	7.50000	7.954
3 Phenol	94		8.421	8.421	(0.936)	486034	5.00000	5.108
\$ 5 2-Chlorophenol-d4	132		8.652	8.652	(0.961)	569661	7.50000	7.597
4 Bis(2-Chloroethyl)ether	93		8.552	8.552	(0.950)	323508	5.00000	4.724
6 2-Chlorophenol	128		8.683	8.683	(0.965)	375218	5.00000	4.946
7 1,3-Dichlorobenzene	146		8.939	8.939	(0.993)	396164	5.00000	4.829
* 8 1,4-Dichlorobenzene-d4	152		9.001	9.001	(1.000)	201538	4.00000	
9 1,4-Dichlorobenzene	146		9.032	9.032	(1.003)	327589	5.00000	5.065
\$ 10 1,2-Dichlorobenzene-d4	152		9.366	9.366	(1.041)	238263	5.00000	5.156
12 1,2-Dichlorobenzene	146		9.389	9.389	(1.043)	341521	5.00000	4.974
11 Benzyl alcohol	108		9.280	9.280	(1.031)	218892	5.00000	5.775
14 2,2'-oxybis(1-Chloropropane)	121		9.575	9.575	(1.064)	78989	5.00000	4.865
13 2-Methylphenol	108		9.529	9.529	(1.059)	294335	5.00000	5.017
17 Hexachloroethane	117		9.979	9.979	(1.109)	145599	5.00000	5.050
16 N-Nitroso-di-n-propylamine	70		9.831	9.831	(1.092)	185889	5.00000	4.556
15 4-Methylphenol	108		9.793	9.793	(1.088)	317500	5.00000	5.064
\$ 18 Nitrobenzene-d5	82		10.095	10.095	(0.879)	353299	5.00000	5.111
19 Nitrobenzene	77		10.134	10.134	(0.882)	348556	5.00000	5.003
20 Isophorone	82		10.584	10.584	(0.921)	548339	5.00000	5.440
21 2-Nitrophenol	139		10.759	10.759	(0.937)	246880	5.00000	5.610
22 2,4-Dimethylphenol	107		10.836	10.836	(0.943)	432840	10.0000	8.096
23 Bis(2-Chloroethoxy)methane	93		11.014	11.014	(0.959)	300353	5.00000	4.960
24 Benzoic acid	105		11.065	11.065	(0.963)	493201	20.0000	17.34
25 2,4-Dichlorophenol	162		11.234	11.234	(0.978)	614199	10.0000	11.30
26 1,2,4-Trichlorobenzene	180		11.403	11.403	(0.993)	277919	5.00000	4.765
* 27 Naphthalene-d8	136		11.488	11.488	(1.000)	649654	4.00000	
28 Naphthalene	128		11.535	11.535	(1.004)	877012	5.00000	5.275
29 4-Chloroaniline	127		11.666	11.666	(1.015)	829318	10.0000	11.30
30 Hexachlorobutadiene	225		11.890	11.890	(1.035)	150415	5.00000	5.406
31 4-Chloro-3-methylphenol	107		12.656	12.656	(1.102)	680461	10.0000	10.35
32 2-Methylnaphthalene	142		12.927	12.927	(1.125)	935624	5.00000	5.662
33 Hexachlorocyclopentadiene	237		13.399	13.399	(0.887)	42582	10.0000	1.995

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.569	13.569	(0.898)	506320	10.0000	12.03
35 2,4,5-Trichlorophenol	196	13.647	13.647	(0.903)	550457	10.0000	11.00
§ 36 2-Fluorobiphenyl	172	13.716	13.716	(0.908)	900463	5.00000	5.371
37 2-Chloronaphthalene	162	13.925	13.925	(0.922)	813398	5.00000	5.504
38 2-Nitroaniline	65	14.188	14.188	(0.939)	422570	10.0000	10.69
39 Dimethylphthalate	163	14.622	14.622	(0.968)	656976	5.00000	5.057
40 Acenaphthylene	152	14.800	14.800	(0.980)	1036901	5.00000	4.788
41 2,6-Dinitrotoluene	165	14.761	14.761	(0.977)	327453	10.0000	10.85
* 42 Acenaphthene-d10	164	15.109	15.109	(1.000)	370460	4.00000	
43 3-Nitroaniline	138	15.048	15.048	(0.996)	433391	10.0000	12.20
44 Acenaphthene	153	15.179	15.179	(1.005)	572673	5.00000	5.315
45 2,4-Dinitrophenol	184	15.272	15.272	(1.011)	258841	20.0000	18.51
46 Dibenzofuran	168	15.511	15.511	(1.027)	957742	5.00000	5.594
47 4-Nitrophenol	109	15.419	15.419	(1.020)	113014	10.0000	9.548
48 2,4-Dinitrotoluene	165	15.581	15.581	(1.031)	474381	10.0000	11.76
50 Diethylphthalate	149	16.084	16.084	(1.064)	582774	5.00000	5.229
49 Fluorene	166	16.223	16.223	(1.074)	1022802	5.00000	4.999
51 4-Chlorophenyl-phenylether	204	16.215	16.215	(1.073)	461440	5.00000	5.136
52 4-Nitroaniline	138	16.323	16.323	(1.080)	428846	10.0000	12.05
53 4,6-Dinitro-2-methylphenol	198	16.431	16.431	(0.905)	511481	20.0000	20.25
54 N-Nitrosodiphenylamine	169	16.469	16.469	(0.907)	523370	5.00000	5.142
§ 55 2,4,6-Tribromophenol	330	16.762	16.762	(1.109)	135343	7.50000	8.011
56 4-Bromophenyl-phenylether	248	17.217	17.217	(0.948)	258486	5.00000	5.481
57 Hexachlorobenzene	284	17.534	17.534	(0.965)	222985	5.00000	5.184
58 Pentachlorophenol	266	17.906	17.906	(0.986)	70097	10.0000	7.008
* 59 Phenanthrene-d10	188	18.161	18.161	(1.000)	647298	4.00000	
60 Phenanthrene	178	18.207	18.207	(1.003)	891063	5.00000	5.240
61 Anthracene	178	18.300	18.300	(1.008)	994707	5.00000	5.489
62 Carbazole	167	18.641	18.641	(1.026)	964765	5.00000	5.771
63 Di-n-butylphthalate	149	19.445	19.445	(1.071)	1280601	5.00000	4.936
64 Fluoranthene	202	20.606	20.606	(0.886)	1004216	5.00000	6.153
65 Pyrene	202	21.031	21.031	(0.905)	727675	5.00000	5.119
§ 66 Terphenyl-d14	244	21.326	21.326	(0.917)	468932	5.00000	6.077
67 Butylbenzylphthalate	149	22.262	22.262	(0.958)	297536	5.00000	6.661
68 Benzo(a)anthracene	228	23.215	23.215	(0.999)	425553	5.00000	4.542
* 69 Chrysene-d12	240	23.246	23.246	(1.000)	221116	4.00000	
70 3,3'-Dichlorobenzidine	252	23.176	23.176	(0.997)	433799	15.0000	14.21
71 Chrysene	228	23.292	23.292	(1.002)	228181	5.00000	3.547
72 bis(2-Ethylhexyl)phthalate	149	23.308	23.308	(0.959)	203803	5.00000	5.777
* 134 Di-n-octylphthalate-d4	153	24.306	24.306	(1.000)	319144	4.00000	
73 Di-n-octylphthalate	149	24.314	24.314	(1.000)	376591	5.00000	5.192
74 Benzo(b)fluoranthene	252	25.112	25.112	(0.970)	225505	5.00000	4.732
75 Benzo(k)fluoranthene	252	25.158	25.158	(0.972)	210478	5.00000	4.593
76 Benzo(a)pyrene	252	25.762	25.762	(0.996)	169261	5.00000	4.339
* 77 Perylene-d12	264	25.878	25.878	(1.000)	105234	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.544	28.544	(1.103)	211194	5.00000	5.071
79 Dibenzo(a,h)anthracene	278	28.560	28.560	(1.104)	169111	5.00000	5.304
80 Benzo(g,h,i)perylene	276	29.329	29.329	(1.133)	153906	5.00000	4.623
90 N-Nitrosodimethylamine	74	4.628	4.628	(0.514)	444395	10.0000	9.229
91 Aniline	93	8.467	8.467	(0.941)	834095	10.0000	8.765
93 Benzidine	184	20.846	20.846	(0.897)	255505	10.0000	7.833
103 Pyridine	79	4.651	4.651	(0.517)	540861	5.00000	3.963
105 1-methylnaphthalene	142	13.151	13.151	(1.145)	865305	5.00000	5.330
111 Azobenzene (1,2-DP-Hydrazine)	77	16.539	16.539	(1.095)	684582	5.00000	4.627

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252		25.112	25.112	(0.970)	416517	10.0000	9.373
120 2,3,4,6-Tetrachlorophenol	232		15.859	15.859	(1.050)	147139	5.00000	4.551

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071502.D Calibration Time: 10:46
 Lab Smp Id: SKG0154-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	192489	96245	384978	201538	4.70
27 Naphthalene-d8	672295	336148	1344590	649654	-3.37
42 Acenaphthene-d10	364038	182019	728076	370460	1.76
59 Phenanthrene-d10	523956	261978	1047912	647298	23.54
69 Chrysene-d12	202400	101200	404800	221116	9.25
134 Di-n-octylphthala	299701	149851	599402	319144	6.49
77 Perylene-d12	102711	51356	205422	105234	2.46

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.01	8.51	9.51	9.00	-0.08
27 Naphthalene-d8	11.49	10.99	11.99	11.49	0.00
42 Acenaphthene-d10	15.11	14.61	15.61	15.11	0.00
59 Phenanthrene-d10	18.15	17.65	18.65	18.16	0.04
69 Chrysene-d12	23.24	22.74	23.74	23.25	0.03
134 Di-n-octylphthala	24.30	23.80	24.80	24.31	0.03
77 Perylene-d12	25.88	25.38	26.38	25.88	0.00

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

REVIEW SUMMARY FOR FILE - NT1022071502.D

Lab ID: SKG0154-ICV1
nt10.i, ABN.m, 15-JUL-2022 12:41

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

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

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

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20220715.b

Instrument: nt10.i Date: 15-JUL-2022 Method: ABN.m

INITIAL CAL: 23-JUN-2022

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: NT1022071502.D 15-JUL-2022 12:41

Compound	%D

Hexachlorocyclopentadiene	-80.0
3-Nitroaniline	22.01
4-Nitroaniline	20.54
Pentachlorophenol	-29.9
Fluoranthene	23.1
Butylbenzylphthalate	33.22
Chrysene	-29.1
Benzidine	-21.67
Pyridine	-20.75
Terphenyl-d14	21.54



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071602.D

Calibration Date: 06/23/2022

Sequence: SKG0171

Injection Date: 07/16/22

Lab Sample ID: SKG0171-ICV1

Injection Time: 09:31

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
bis(2-Ethylhexyl)phthalate	A	5.0000	5.5	0.4421262	0.4890123		10.6	+/-20
2-Fluorophenol	A	7.5000	7.50	1.4606150	1.4599430		-0.04	+/-20
Phenol-d5	A	7.5000	8.27	2.1672350	2.3901960		10.3	+/-20
2-Chlorophenol-d4	A	7.5000	7.60	1.4882780	1.5088470		1.4	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	6.86	0.9170783	1.2584440		37.2	+/-20 *
Nitrobenzene-d5	A	5.0000	4.84	0.4256249	0.4123401		-3.1	+/-20
2-Fluorobiphenyl	A	5.0000	3.97	1.8101110	1.4369600		-20.6	+/-20 *
2,4,6-Tribromophenol	A	7.5000	5.17	0.1582114	0.1252380		-31.1	+/-20 *
p-Terphenyl-d14	A	5.0000	6.06	1.3958840	1.6922480		21.2	+/-20 *
1,4-Dichlorobenzene-d4	A	4.0000	4.0	38854.2500	1.0000			
Naphthalene-d8	A	4.0000	4.0	122796.3000	1.0000			
Acenaphthene-d10	A	4.0000	4.0	70494.2500	1.0000			
Phenanthrene-d10	A	4.0000	4.0	124644.3000	1.0000			
Chrysene-d12	A	4.0000	4.0	65886.0000	1.0000			
Di-n-Octylphthalate-d4	A	4.0000	4.0	113292.5000	1.0000			
Perylene-d12	A	4.0000	4.0	43579.0000	1.0000			

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220716.1\NT1022071602.D

Date: 16-JUL-2022 09:31

Client ID:

Sample Info: SKC0171-ICW1

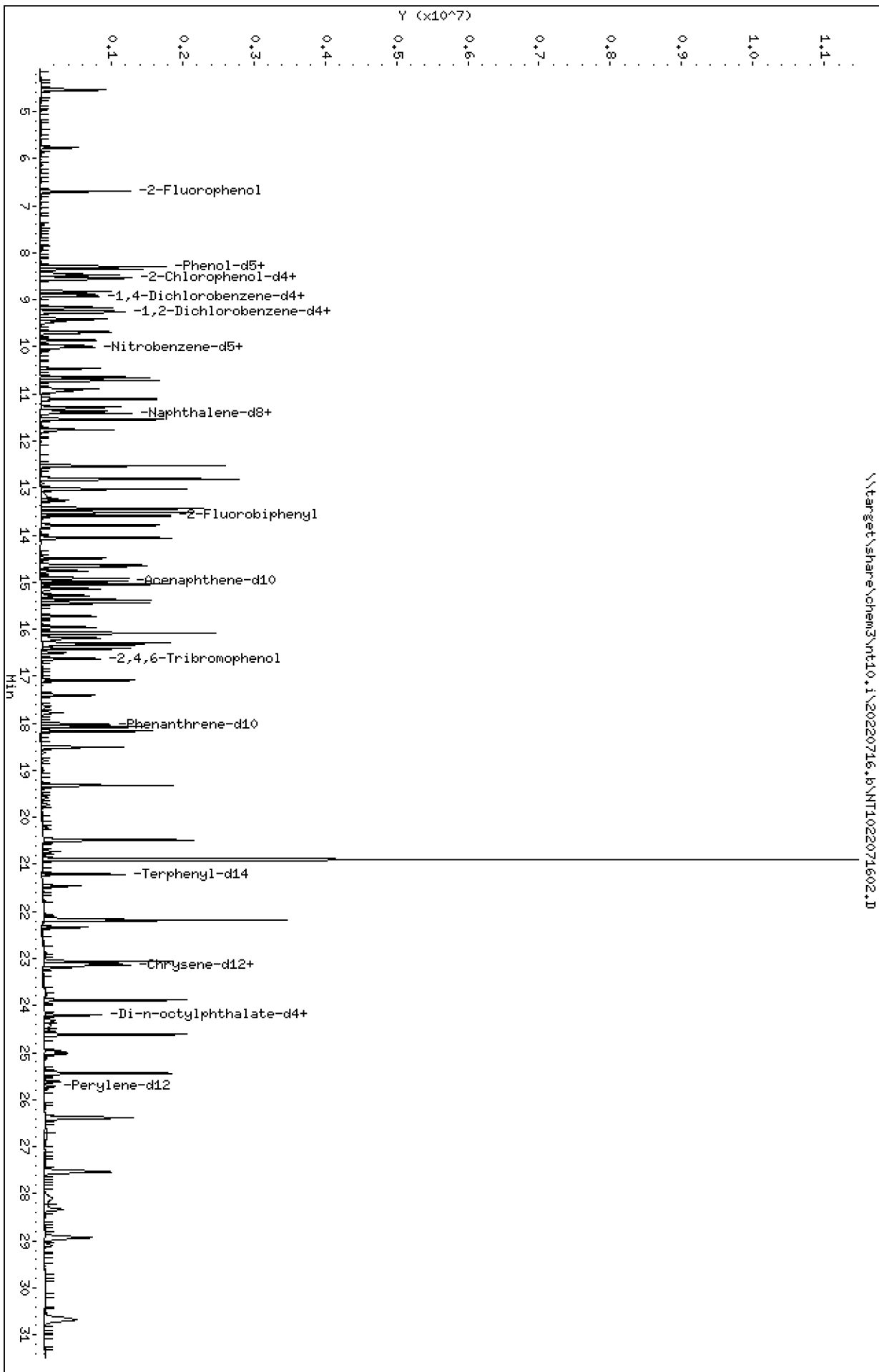
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20220716.1\NT1022071602.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220716.b\NT1022071602.D
 Lab Smp Id: SKG0171-ICV1
 Inj Date : 16-JUL-2022 09:31
 Operator : VTS
 Smp Info : SKG0171-ICV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220716.b\ABN.m
 Meth Date : 19-Jul-2022 10:30 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT1022062308.D
 Continuing Calibration Sample
 Compound Sublist: BIS.sub

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
\$ 1 2-Fluorophenol	112		6.697	6.697	(0.753)	609549	7.50000	7.497
\$ 2 Phenol-d5	99		8.289	8.289	(0.932)	997944	7.50000	8.272
\$ 5 2-Chlorophenol-d4	132		8.536	8.536	(0.960)	629967	7.50000	7.604
* 8 1,4-Dichlorobenzene-d4	152		8.892	8.892	(1.000)	222675	4.00000	
\$ 10 1,2-Dichlorobenzene-d4	152		9.249	9.249	(1.040)	350280	5.00000	6.861
\$ 18 Nitrobenzene-d5	82		9.979	9.979	(0.878)	404601	5.00000	4.844
* 27 Naphthalene-d8	136		11.365	11.365	(1.000)	784985	4.00000	
\$ 36 2-Fluorobiphenyl	172		13.592	13.592	(0.907)	1002308	5.00000	3.969
* 42 Acenaphthene-d10	164		14.978	14.978	(1.000)	558016	4.00000	
\$ 55 2,4,6-Tribromophenol	330		16.631	16.631	(1.110)	131034	7.50000	5.171
* 59 Phenanthrene-d10	188		18.029	18.029	(1.000)	687248	4.00000	
\$ 66 Terphenyl-d14	244		21.209	21.209	(0.917)	555292	5.00000	6.062
* 69 Chrysene-d12	240		23.130	23.130	(1.000)	262511	4.00000	
72 bis(2-Ethylhexyl)phthalate	149		23.207	23.207	(0.959)	189988	5.00000	5.530
* 134 Di-n-octylphthalate-d4	153		24.198	24.198	(1.000)	310811	4.00000	
* 77 Perylene-d12	264		25.723	25.723	(1.000)	94855	4.00000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 16-JUL-2022
 Lab File ID: NT1022071602.D Calibration Time: 13:33
 Lab Smp Id: SKG0171-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220716.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	202557	101279	405114	222675	9.93
27 Naphthalene-d8	703953	351977	1407906	784985	11.51
42 Acenaphthene-d10	510125	255063	1020250	558016	9.39
59 Phenanthrene-d10	646092	323046	1292184	687248	6.37
69 Chrysene-d12	349304	174652	698608	262511	-24.85
134 Di-n-octylphthala	599143	299572	1198286	310811	-48.12
77 Perylene-d12	184274	92137	368548	94855	-48.53

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.89	8.39	9.39	8.89	0.00
27 Naphthalene-d8	11.37	10.87	11.87	11.37	-0.07
42 Acenaphthene-d10	14.99	14.49	15.49	14.98	-0.05
59 Phenanthrene-d10	18.03	17.53	18.53	18.03	0.00
69 Chrysene-d12	23.15	22.65	23.65	23.13	-0.07
134 Di-n-octylphthala	24.22	23.72	24.72	24.20	-0.10
77 Perylene-d12	25.75	25.25	26.25	25.72	-0.12

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

REVIEW SUMMARY FOR FILE - NT1022071602.D

Lab ID: SKG0171-ICV1
nt10.i, ABN.m, 16-JUL-2022 09:31

RT CO-ELUTION COMPOUNDS



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022062332.D

Calibration Date: 06/23/2022

Sequence: SKF0270

Injection Date: 06/24/22

Lab Sample ID: SKF0270-CCV1

Injection Time: 04:54

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	5.0000	5.0	1.8884920	1.8990370		0.6	+/-50
bis(2-chloroethyl) ether	A	5.0000	4.9	1.3591220	1.3198970		-2.9	+/-50
2-Chlorophenol	A	5.0000	5.0	1.5055700	1.4966870		-0.6	+/-50
1,3-Dichlorobenzene	A	5.0000	4.9	1.6284120	1.5915440		-2.3	+/-50
1,4-Dichlorobenzene	A	5.0000	5.1	1.2836070	1.3114460		2.2	+/-50
1,2-Dichlorobenzene	A	5.0000	5.0	1.3626570	1.3619860		-0.05	+/-50
Benzyl Alcohol	A	5.0000	6.0	0.7522971	0.8987263		19.5	+/-50
2,2'-Oxybis(1-chloropropane)	A	5.0000	4.9	0.3222545	0.3182964		-1.2	+/-50
2-Methylphenol	A	5.0000	5.2	1.1643690	1.2112290		4.0	+/-50
Hexachloroethane	A	5.0000	4.5	0.5721944	0.5147946		-10.0	+/-50
N-Nitroso-di-n-Propylamine	A	5.0000	4.9	0.8097827	0.7936129		-2.0	+/-50
4-Methylphenol	A	5.0000	5.1	1.2443490	1.2800220		2.9	+/-50
Nitrobenzene	A	5.0000	5.1	0.4289874	0.4387365		2.3	+/-50
Isophorone	A	5.0000	5.4	0.6205796	0.6724531		8.4	+/-50
2-Nitrophenol	A	5.0000	5.3	0.2709617	0.2846833		5.1	+/-50
2,4-Dimethylphenol	A	10.000	9.7	0.3291631	0.3183693		-3.3	+/-50
Bis(2-Chloroethoxy)methane	A	5.0000	4.7	0.3728438	0.3485503		-6.5	+/-50
2,4-Dichlorophenol	A	10.000	10.3	0.3345374	0.3455362		3.3	+/-50
1,2,4-Trichlorobenzene	A	5.0000	4.6	0.3494981	0.3277170		-8.7	+/-50
Naphthalene	A	5.0000	5.2	1.0237250	1.0606650		3.6	+/-50
Benzoic acid	A	20.000	21.6	0.1354719	0.1904231		7.8	+/-50
4-Chloroaniline	A	10.000	11.4	0.4520265	0.5134714		13.6	+/-50
Hexachlorobutadiene	A	5.0000	5.0	0.1713061	0.1723680		0.6	+/-50
4-Chloro-3-Methylphenol	A	10.000	9.9	0.3652577	0.4019285		-0.6	+/-50
2-Methylnaphthalene	A	5.0000	5.3	1.0174370	1.0851480		6.7	+/-50
Hexachlorocyclopentadiene	A	10.000	2.0	0.1773971	0.0451338		-80.4	+/-50 *
2,4,6-Trichlorophenol	A	10.000	11.5	0.4546098	0.5232949		15.1	+/-50
2,4,5-Trichlorophenol	A	10.000	10.5	0.4787210	0.5701706		5.4	+/-50
2-Chloronaphthalene	A	5.0000	5.2	1.5957070	1.6569930		3.8	+/-50
2-Nitroaniline	A	10.000	10.9	0.4268379	0.4642442		8.8	+/-50
Acenaphthylene	A	5.0000	4.8	2.3382150	2.2360110		-4.4	+/-50
Dimethylphthalate	A	5.0000	4.9	1.4027420	1.3620720		-2.9	+/-50
2,6-Dinitrotoluene	A	10.000	10.3	0.3257863	0.3349100		2.8	+/-50

* Values outside of QC limits



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022062332.D

Calibration Date: 06/23/2022

Sequence: SKF0270

Injection Date: 06/24/22

Lab Sample ID: SKF0270-CCV1

Injection Time: 04:54

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Acenaphthene	A	5.0000	5.3	1.1633080	1.2257300		5.4	+/-50
3-Nitroaniline	A	10.000	10.4	0.3835195	0.3989627		4.0	+/-50
2,4-Dinitrophenol	A	20.000	18.3	0.1087769	0.1379360		-8.6	+/-50
Dibenzofuran	A	5.0000	5.3	1.8487680	1.9758720		6.9	+/-50
4-Nitrophenol	A	10.000	10.8	0.1044372	0.1379346		7.6	+/-50
2,4-Dinitrotoluene	A	10.000	10.9	0.4354293	0.4742356		8.9	+/-50
Fluorene	A	5.0000	3.7	2.2090760	1.6488990		-25.4	+/-50
4-Chlorophenylphenyl ether	A	5.0000	2.3	0.9701069	0.4411048		-54.5	+/-50 *
Diethyl phthalate	A	5.0000	5.2	1.2033170	1.2427630		3.3	+/-50
4-Nitroaniline	A	10.000	10.9	0.3841274	0.4203448		9.4	+/-50
4,6-Dinitro-2-methylphenol	A	20.000	22.5	0.1197775	0.1757567		12.6	+/-50
N-Nitrosodiphenylamine	A	5.0000	5.8	0.6289655	0.7299763		16.1	+/-50
4-Bromophenyl phenyl ether	A	5.0000	5.7	0.2914116	0.3304383		13.4	+/-50
Hexachlorobenzene	A	5.0000	5.5	0.2851630	0.2904225		9.6	+/-50
Pentachlorophenol	A	10.000	11.1	0.0462824	0.0701134		11.1	+/-50
Phenanthrene	A	5.0000	5.2	1.0508770	1.0824980		3.0	+/-50
Anthracene	A	5.0000	5.1	1.1198770	1.1417810		2.0	+/-50
Carbazole	A	5.0000	4.8	1.0331450	0.9951296		-3.7	+/-50
Di-n-Butylphthalate	A	5.0000	4.3	1.4847320	1.3739500		-13.9	+/-50
Fluoranthene	A	5.0000	4.7	2.5859780	2.7628120		-5.3	+/-50
Pyrene	A	5.0000	4.7	2.4339860	2.4238610		-5.4	+/-50
Butylbenzylphthalate	A	5.0000	6.2	0.8080700	1.0082330		24.8	+/-50
Benzo(a)anthracene	A	5.0000	4.5	1.6949770	1.5358020		-9.4	+/-50
3,3'-Dichlorobenzidine	A	15.000	12.8	0.5523250	0.4708531		-14.8	+/-50
Chrysene	A	5.0000	5.4	1.1695310	1.2767420		7.4	+/-50
bis(2-Ethylhexyl)phthalate	A	5.0000	6.3	0.4421262	0.5574101		26.1	+/-50
Di-n-Octylphthalate	A	5.0000	5.3	0.9091601	0.9613518		5.7	+/-50
Benzo(a)fluoranthene, Total	A	10.000	8.6	1.6890580	1.4486900		-14.2	+/-50
Benzo(a)pyrene	A	5.0000	4.5	1.4826420	1.3263910		-10.5	+/-50
Indeno(1,2,3-cd)pyrene	A	5.0000	4.0	1.5830350	1.2558890		-20.7	+/-50
Dibenzo(a,h)anthracene	A	5.0000	4.3	1.2118700	1.0424860		-14.0	+/-50
Benzo(g,h,i)perylene	A	5.0000	3.4	1.2654270	0.8499629		-32.8	+/-50
1-Methylnaphthalene	A	5.0000	5.3	0.9995882	1.0572100		5.8	+/-50
2-Fluorophenol	A	7.5000	7.55	1.4606150	1.4695270		0.6	+/-50

* Values outside of QC limits



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22G0019</u>
Client:	<u>GeoEngineers</u>	Project:	<u>RG Haley Site-Bellingham</u>
Instrument ID:	<u>NT10</u>	Calibration:	<u>FF00062</u>
Lab File ID:	<u>NT1022062332.D</u>	Calibration Date:	<u>06/23/2022</u>
Sequence:	<u>SKF0270</u>	Injection Date:	<u>06/24/22</u>
Lab Sample ID:	<u>SKF0270-CCV1</u>	Injection Time:	<u>04:54</u>
Sequence Name:	<u>ABN 5</u>		

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol-d5	A	7.5000	7.99	2.1672350	2.3091140		6.5	+/-50
2-Chlorophenol-d4	A	7.5000	7.53	1.4882780	1.4940820		0.4	+/-50
1,2-Dichlorobenzene-d4	A	5.0000	5.05	0.9170783	0.9254303		0.9	+/-50
Nitrobenzene-d5	A	5.0000	5.14	0.4256249	0.4375978		2.8	+/-50
2-Fluorobiphenyl	A	5.0000	5.16	1.8101110	1.8694780		3.3	+/-50
2,4,6-Tribromophenol	A	7.5000	7.10	0.1582114	0.1723915		-5.4	+/-50
p-Terphenyl-d14	A	5.0000	4.84	1.3958840	1.3518320		-3.2	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220623.1\NT1022062332.D

Date: 24-JUN-2022 04:54

Client ID:

Sample Info: SKF0270-CCW1

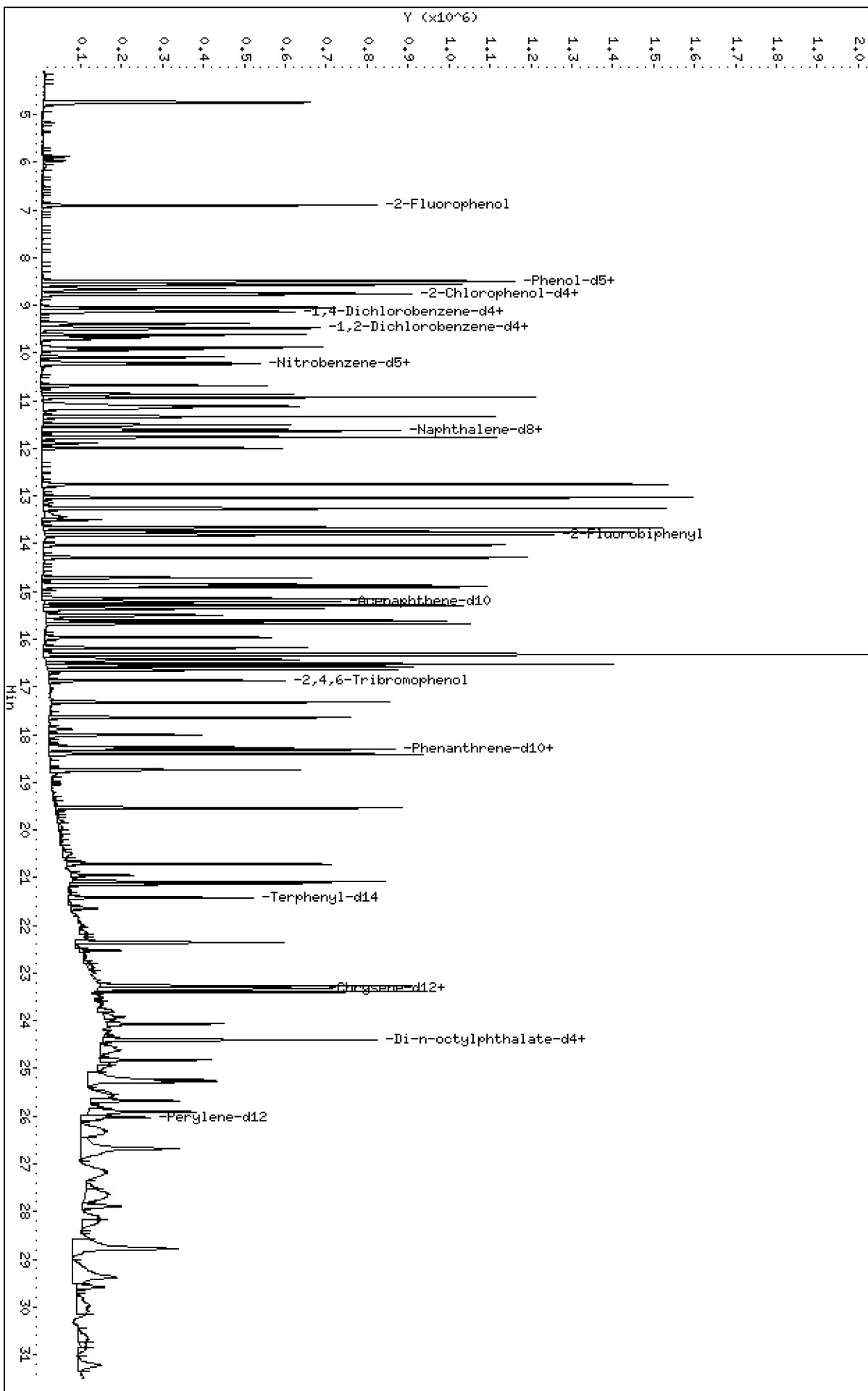
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

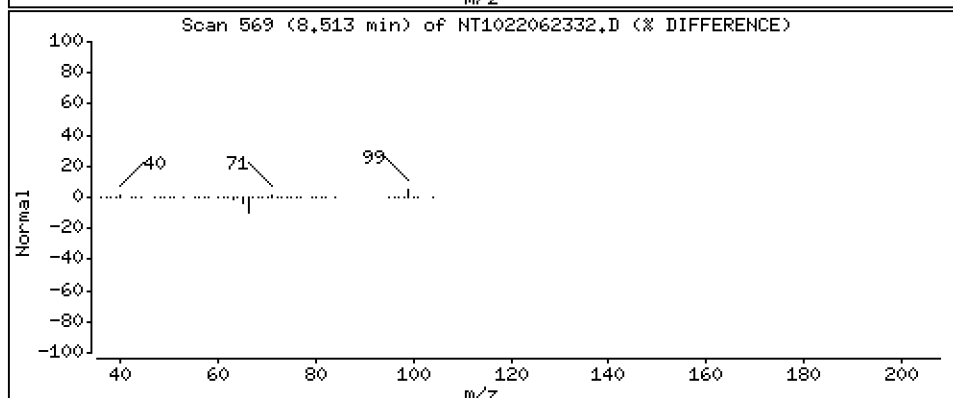
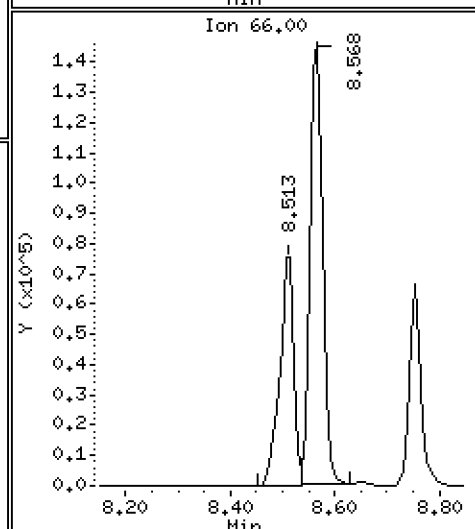
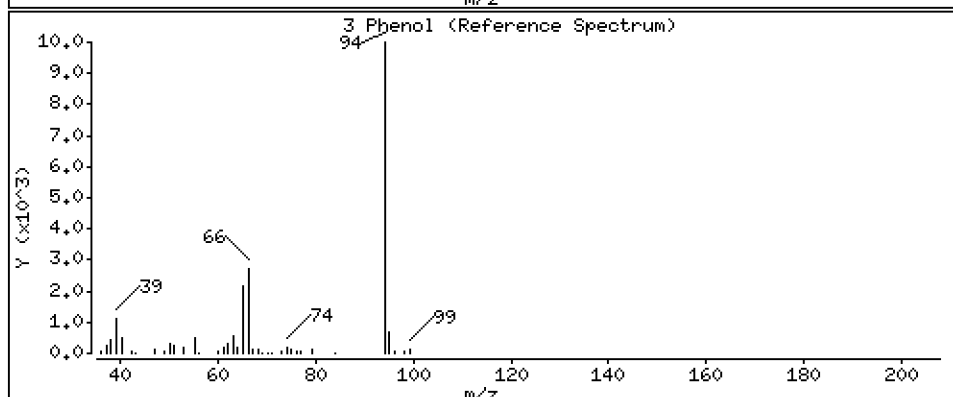
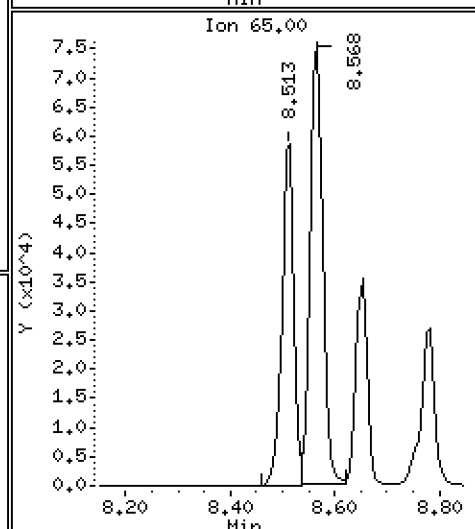
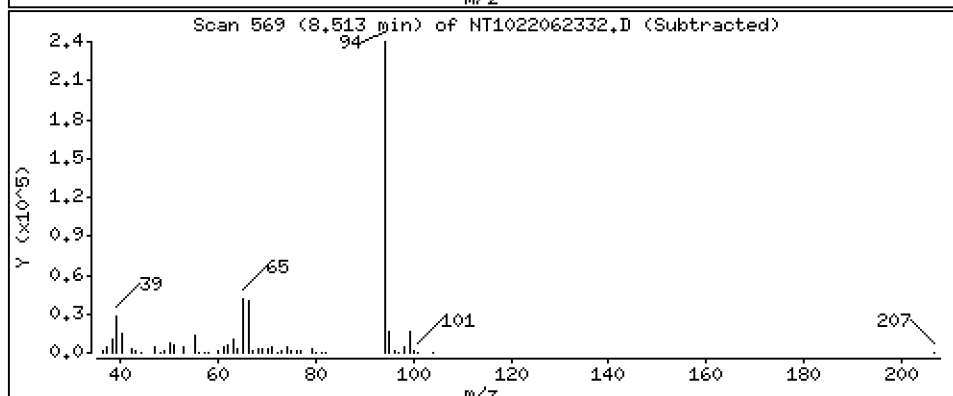
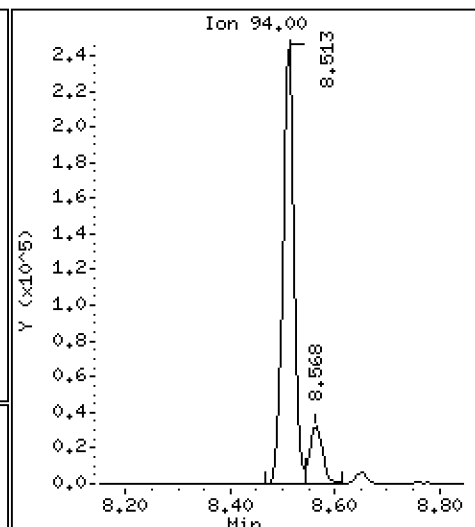
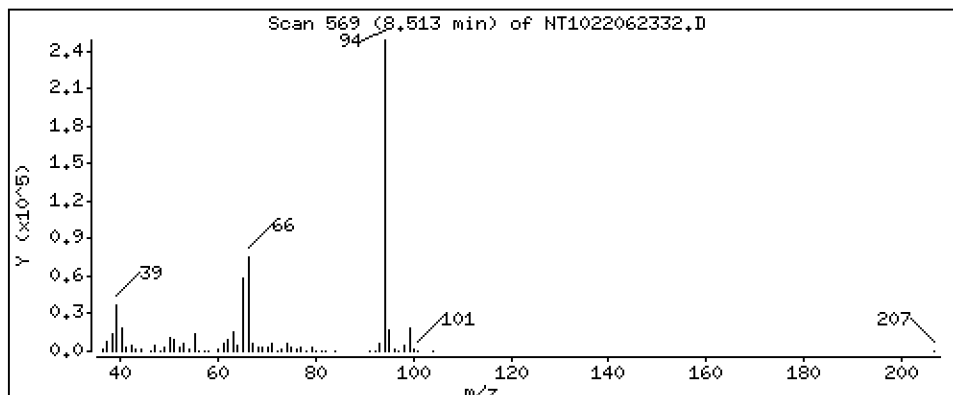
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 5,028 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

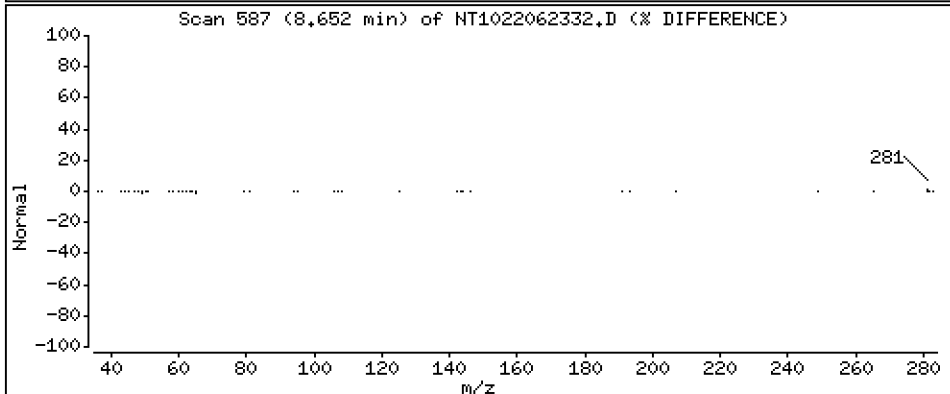
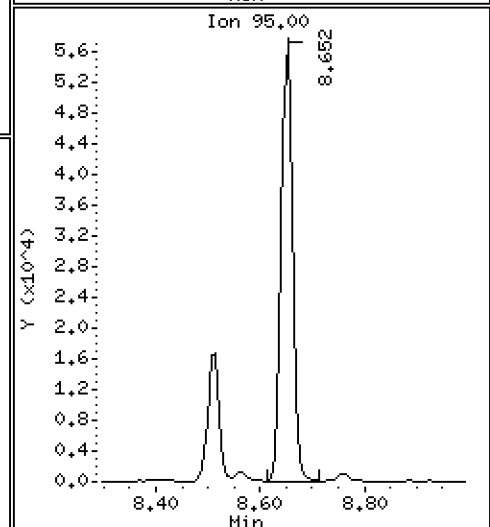
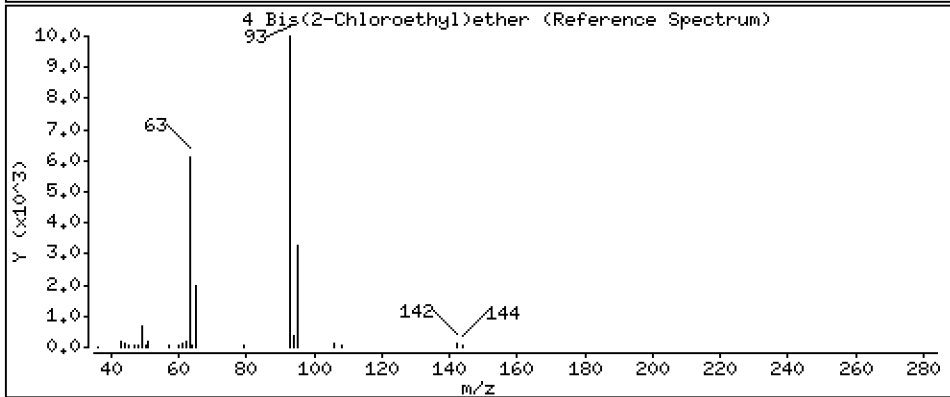
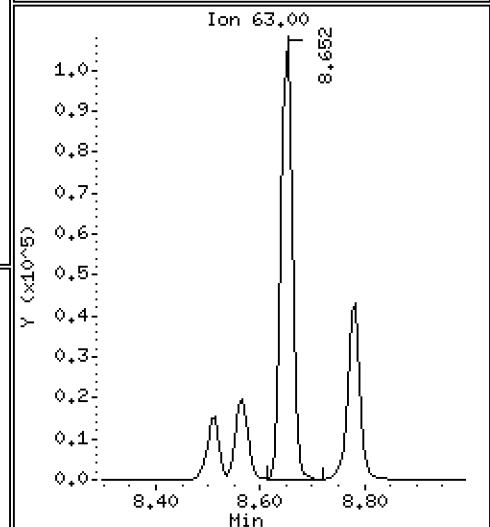
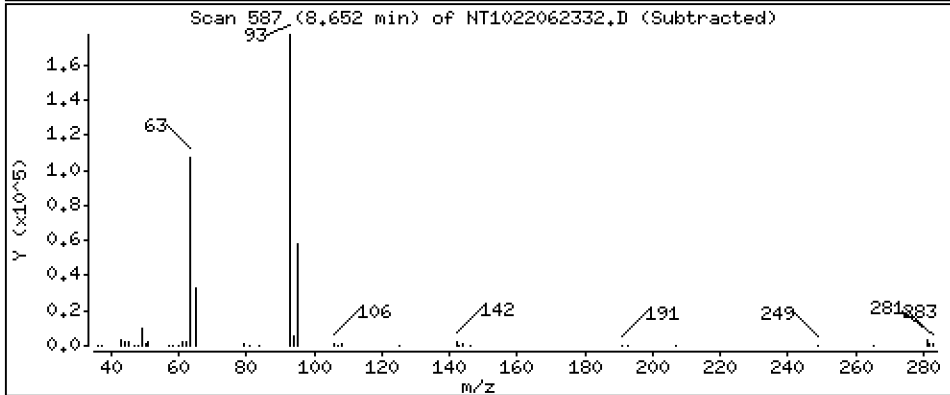
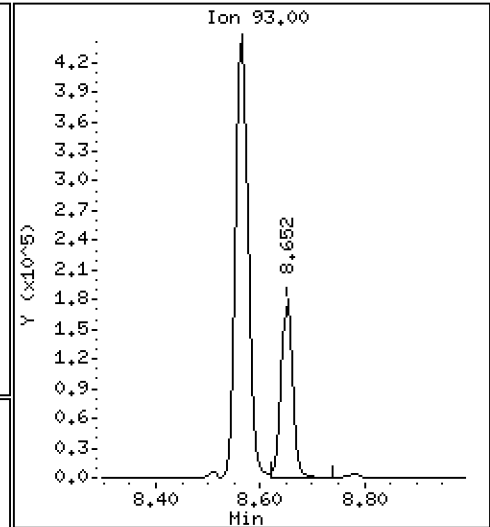
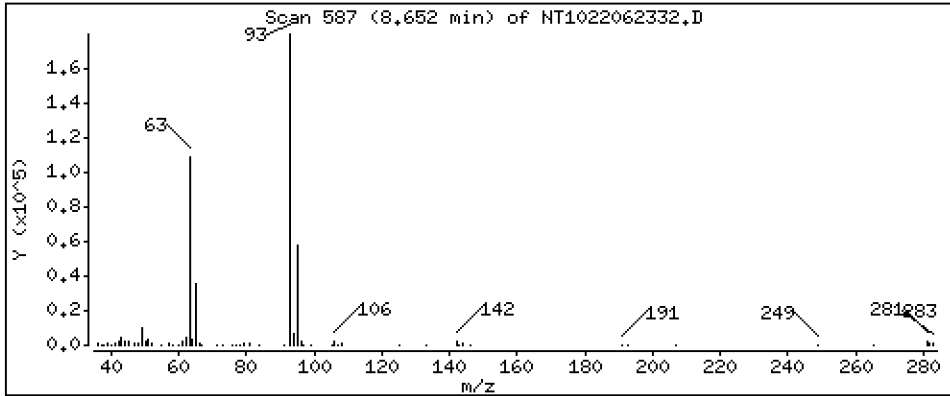
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,856 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

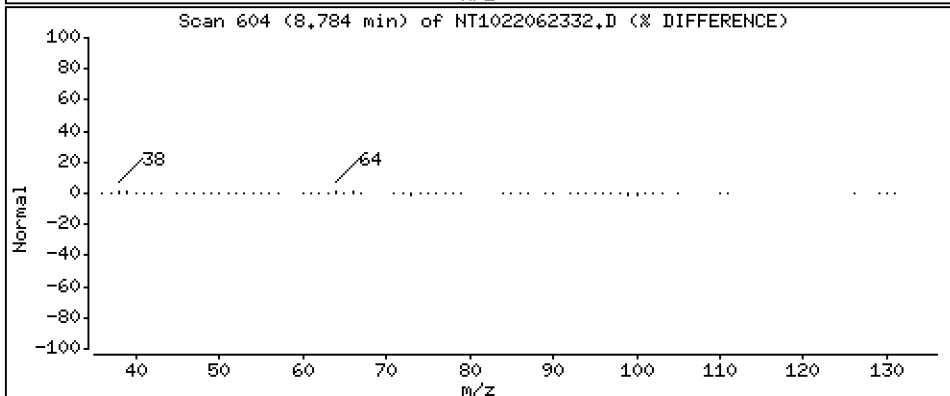
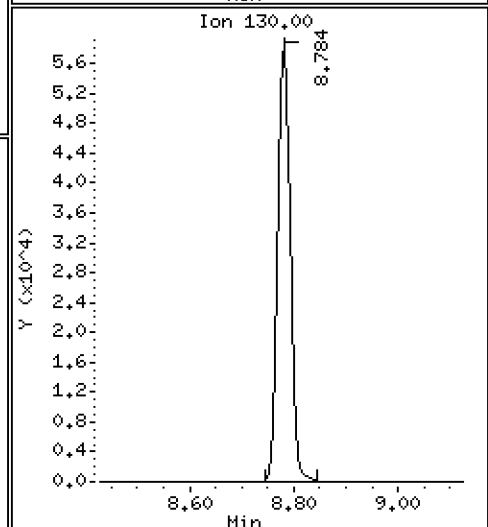
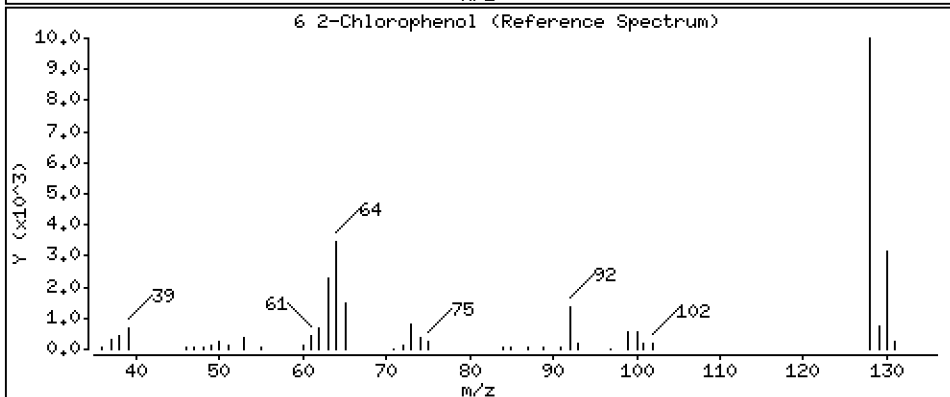
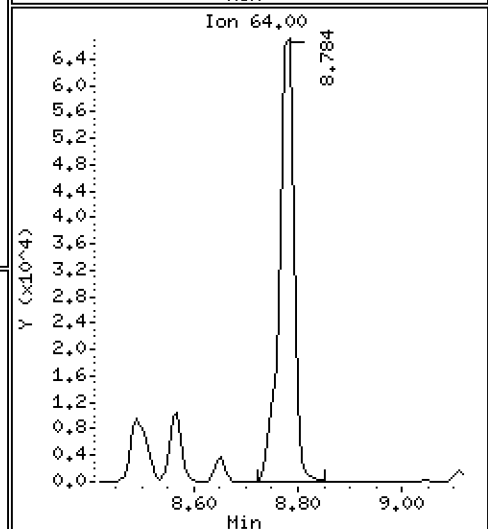
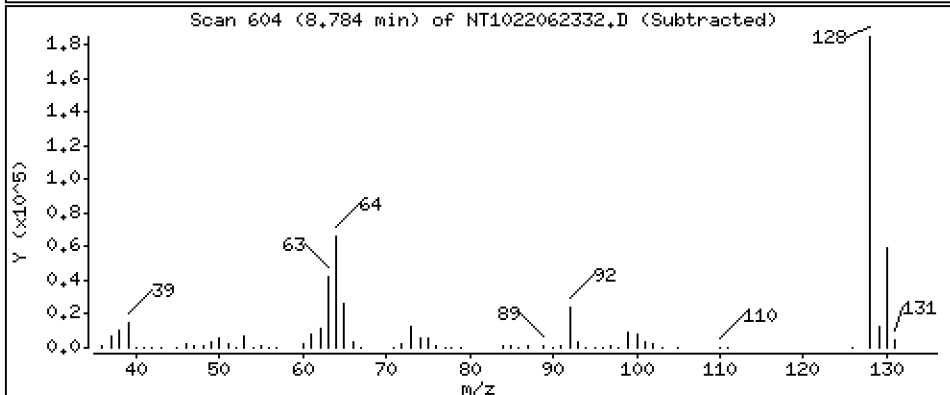
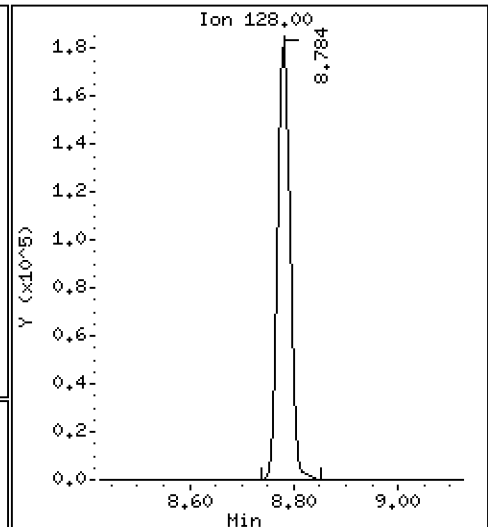
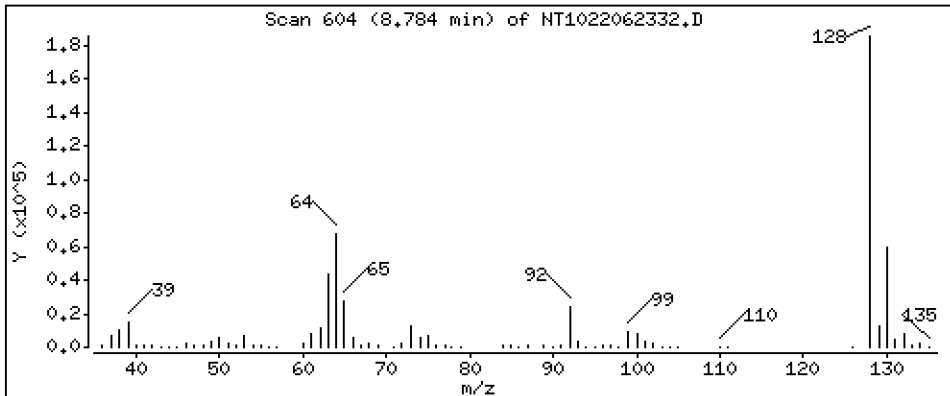
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,971 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

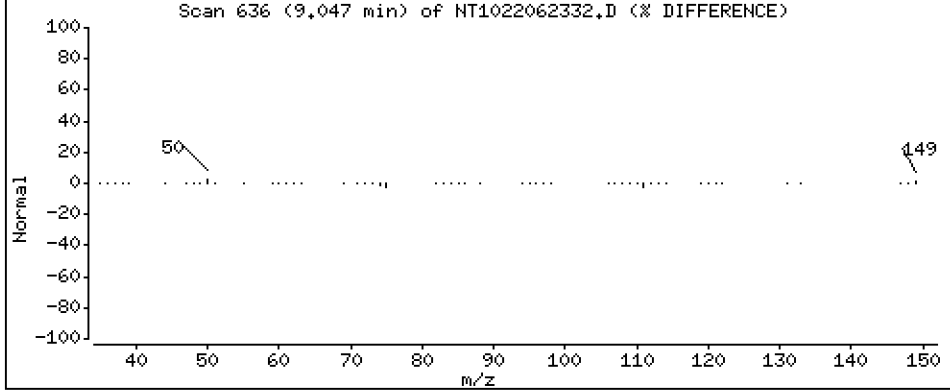
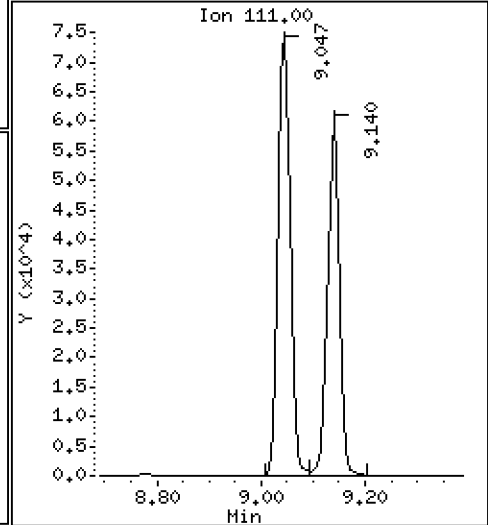
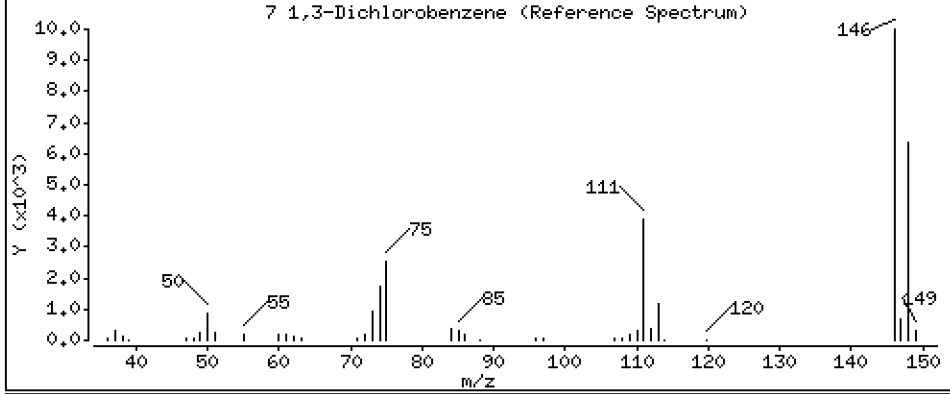
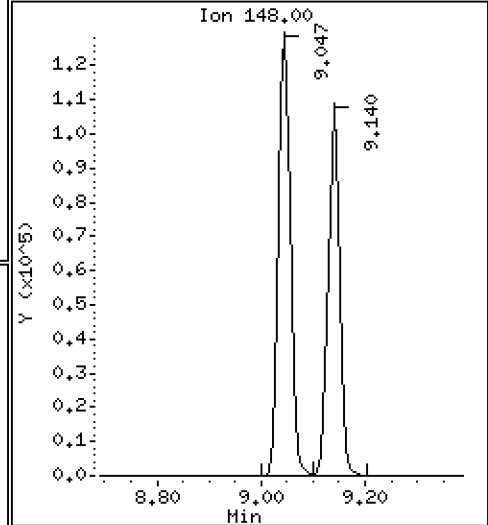
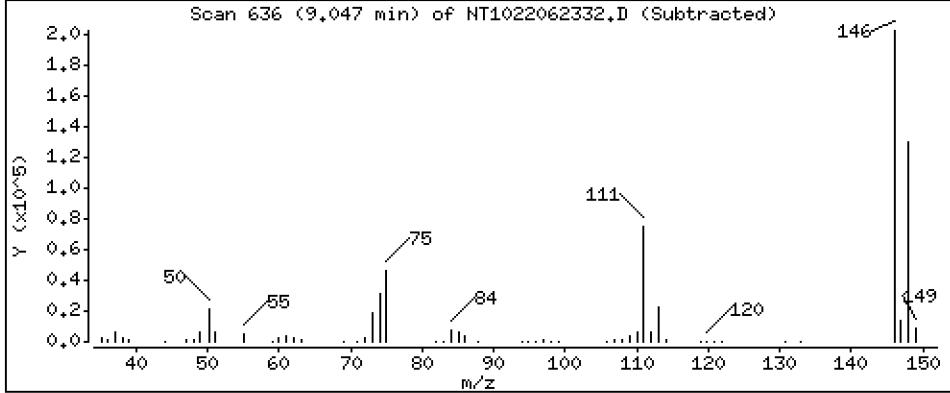
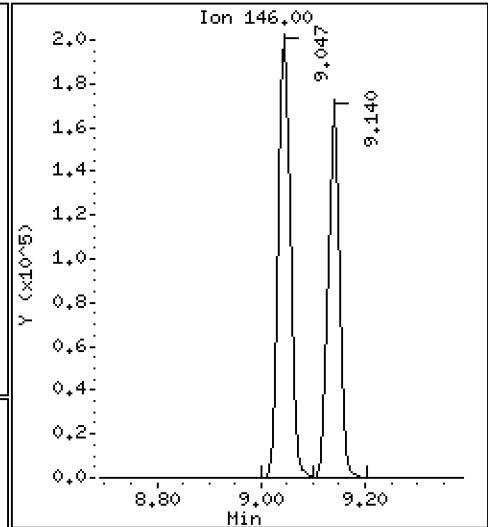
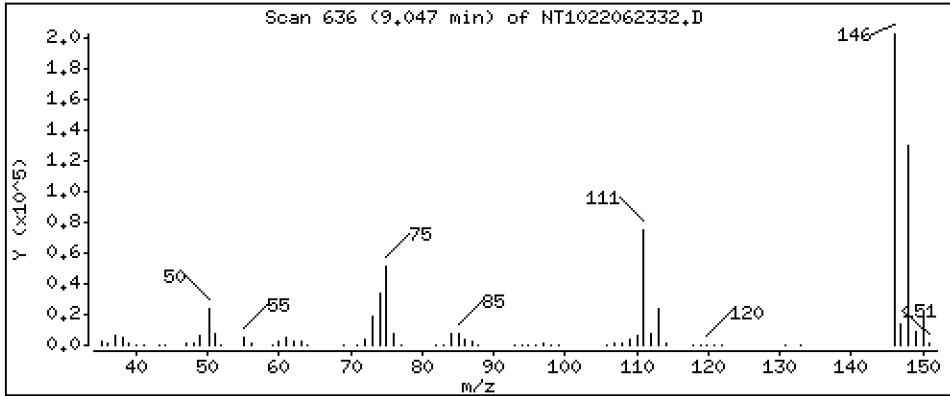
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,887 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

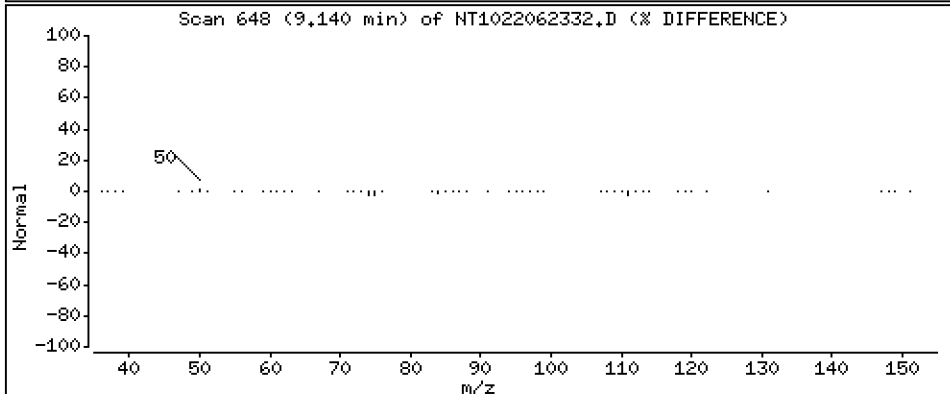
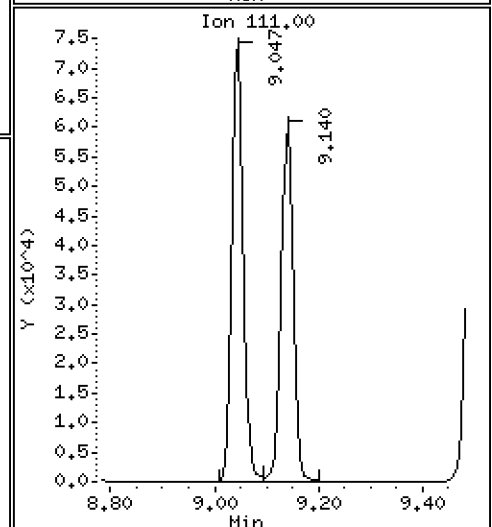
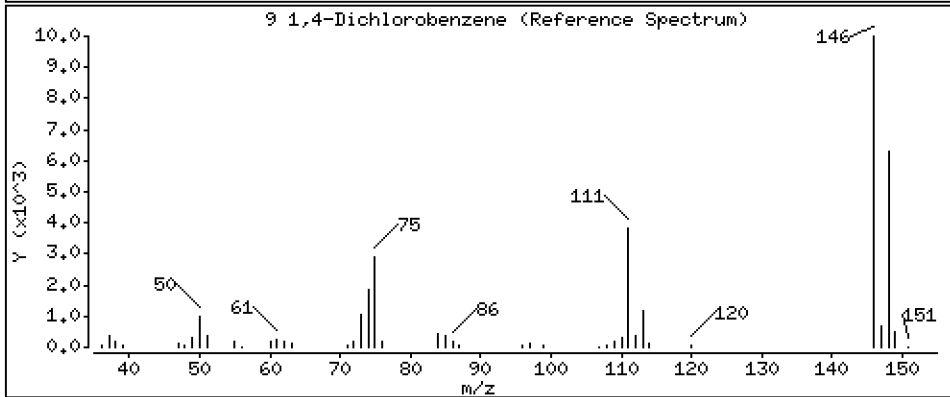
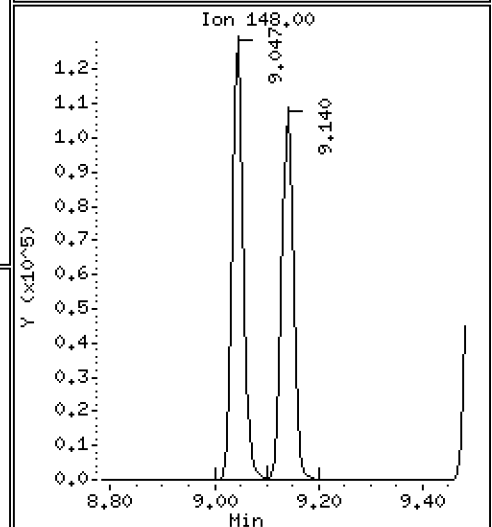
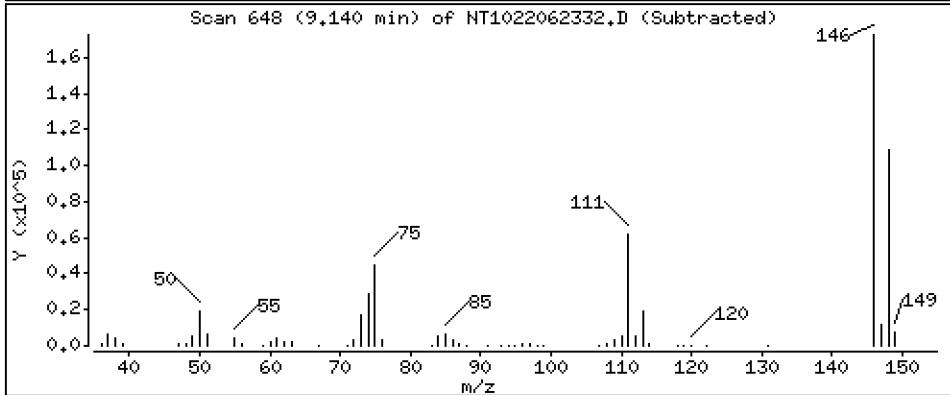
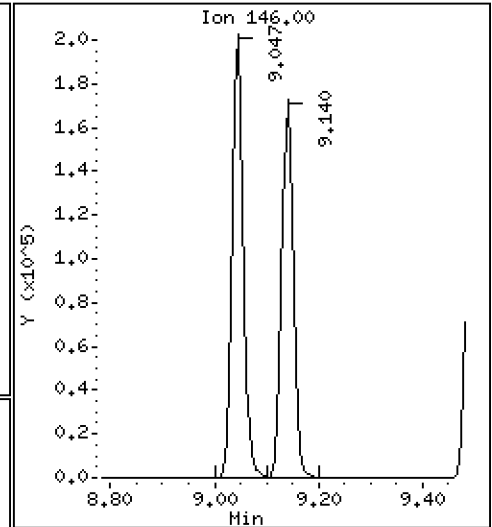
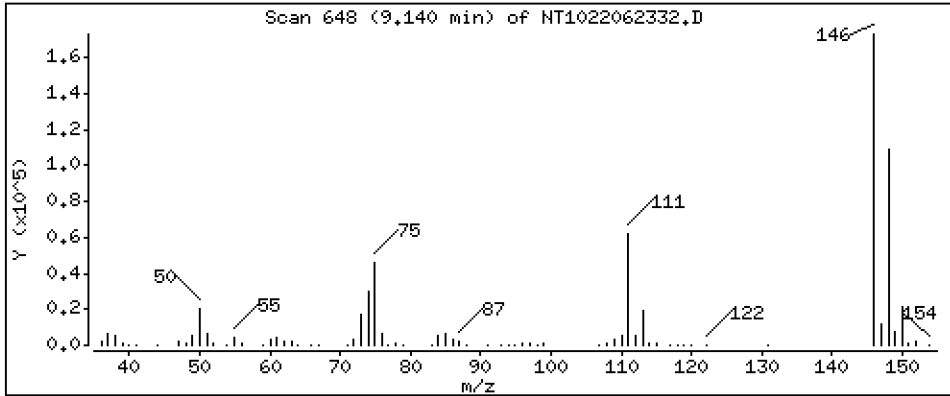
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 5,108 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

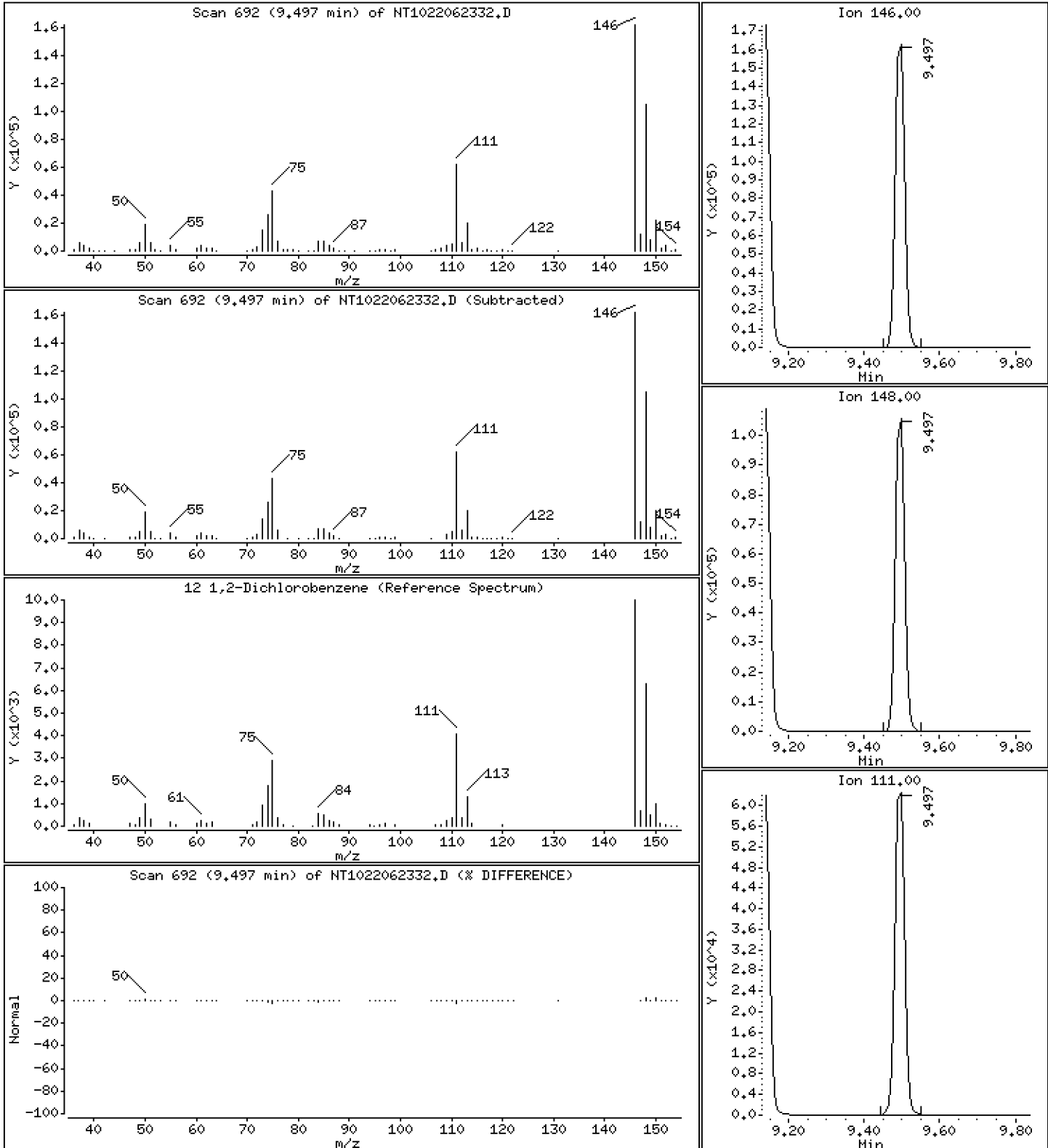
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,998 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

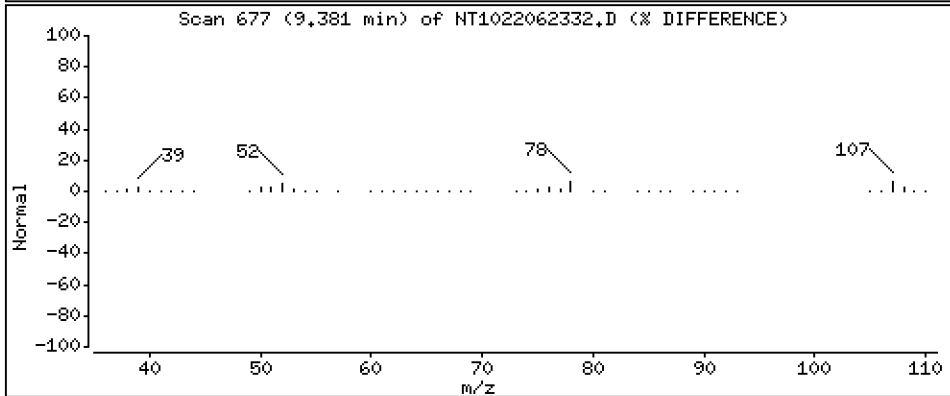
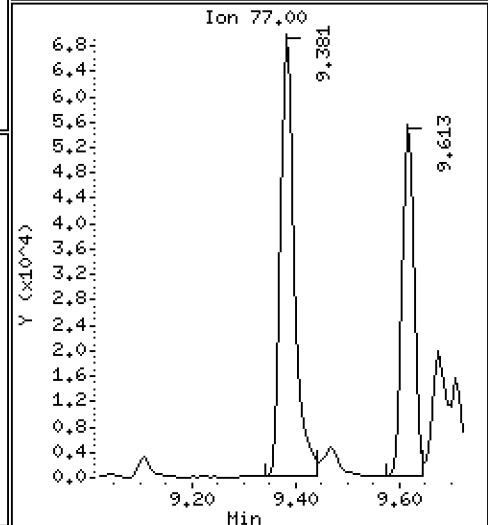
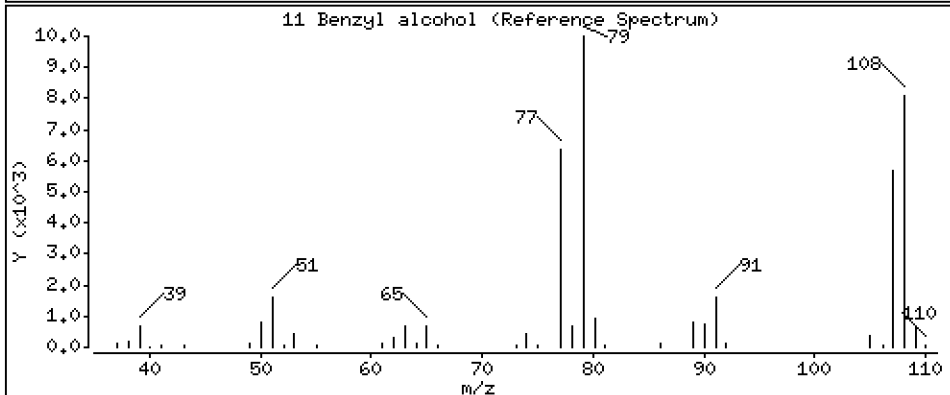
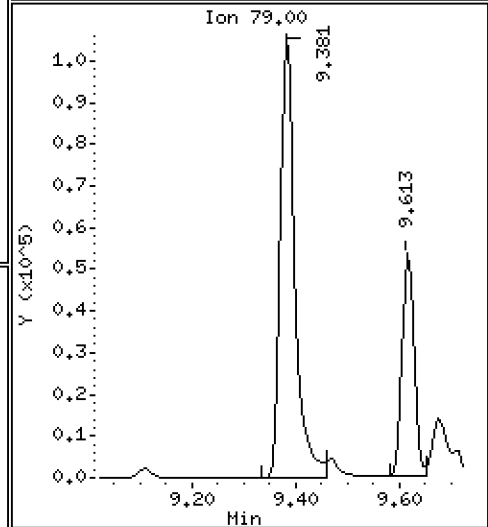
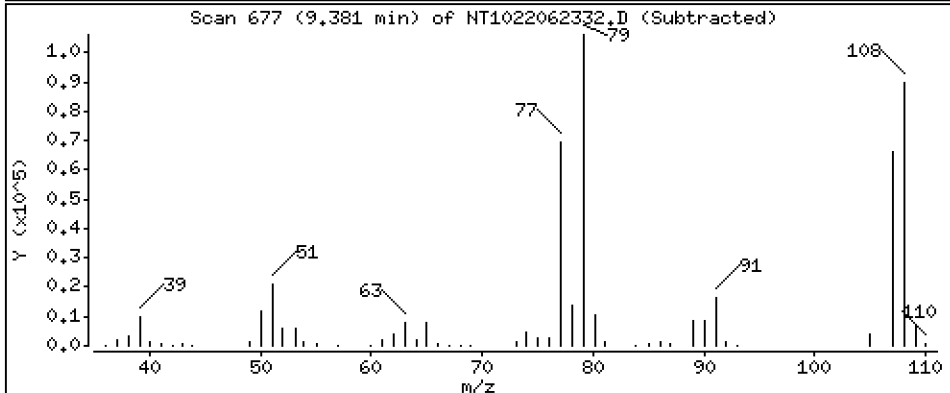
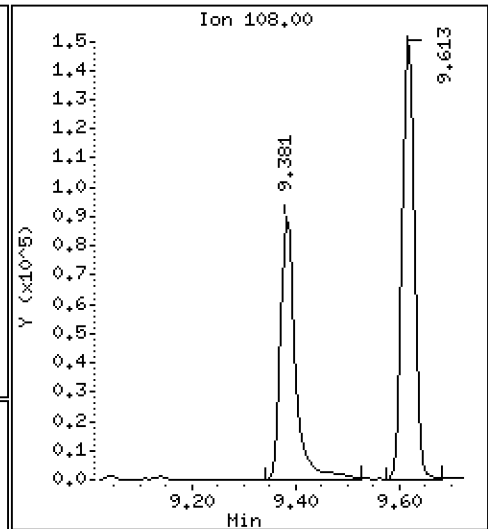
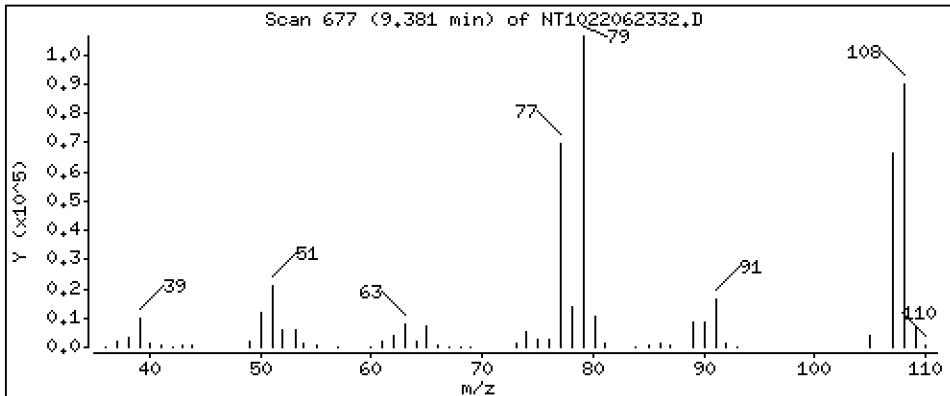
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 5.973 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

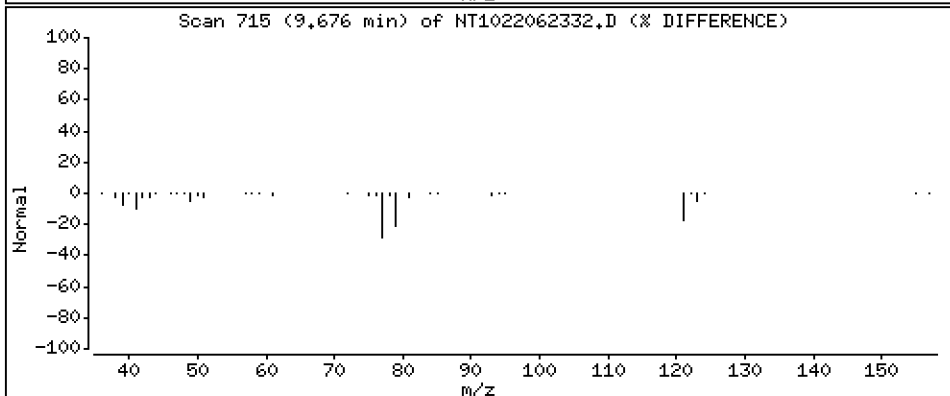
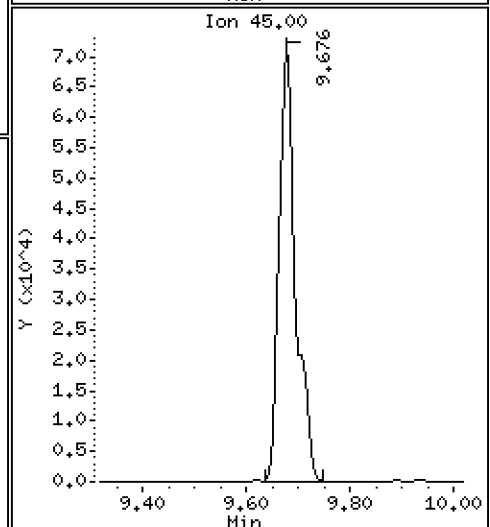
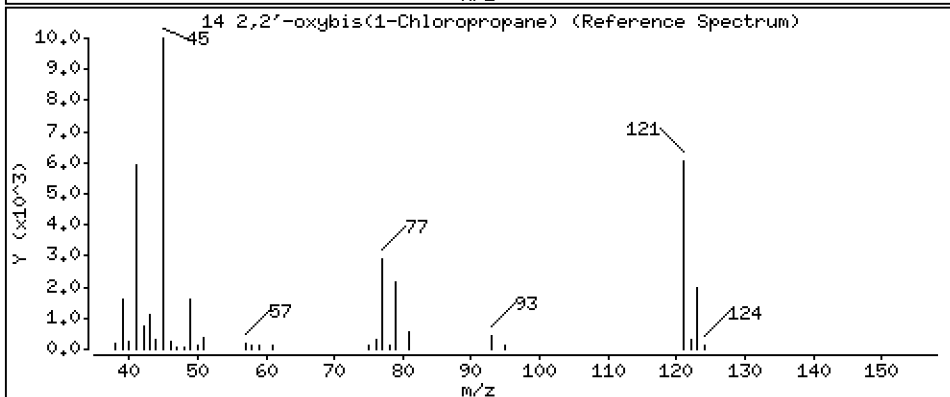
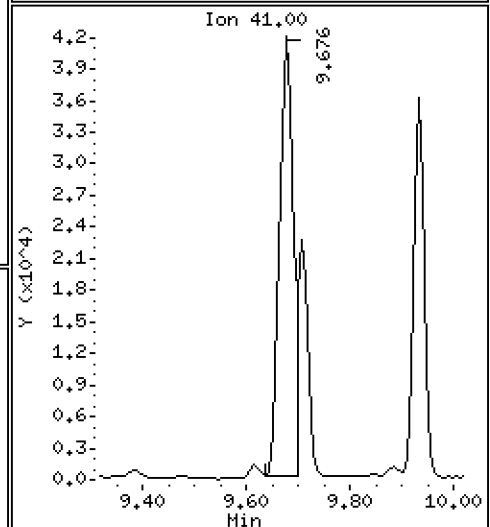
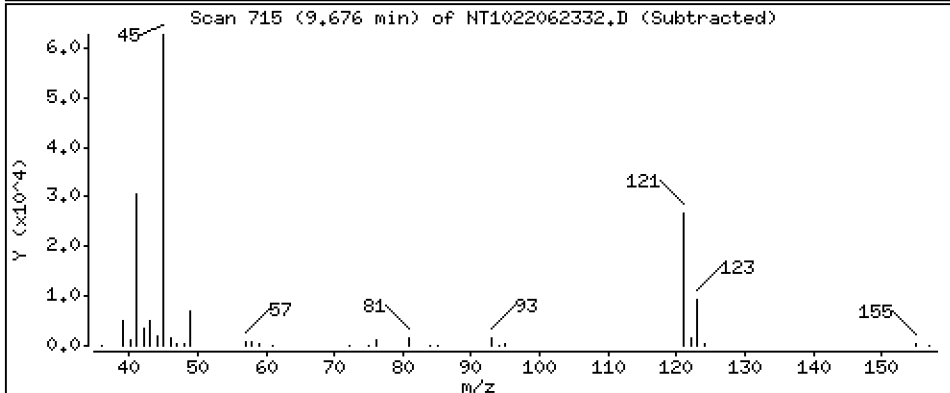
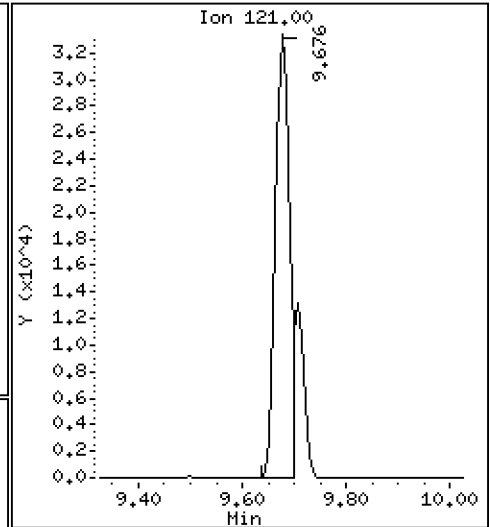
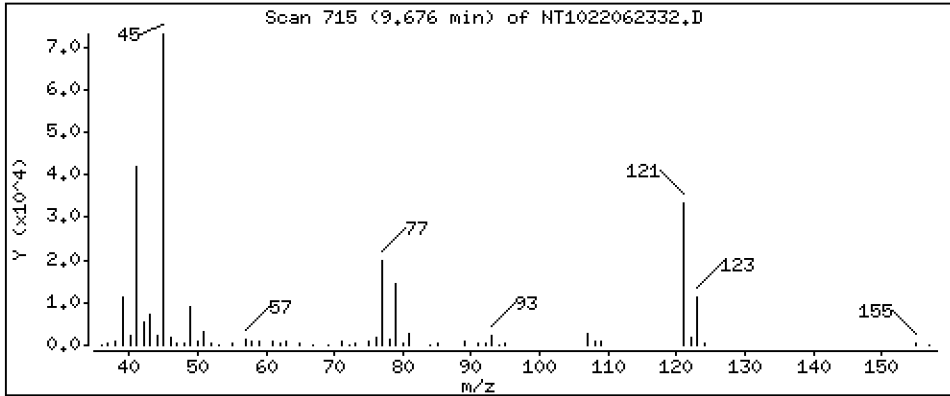
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,939 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

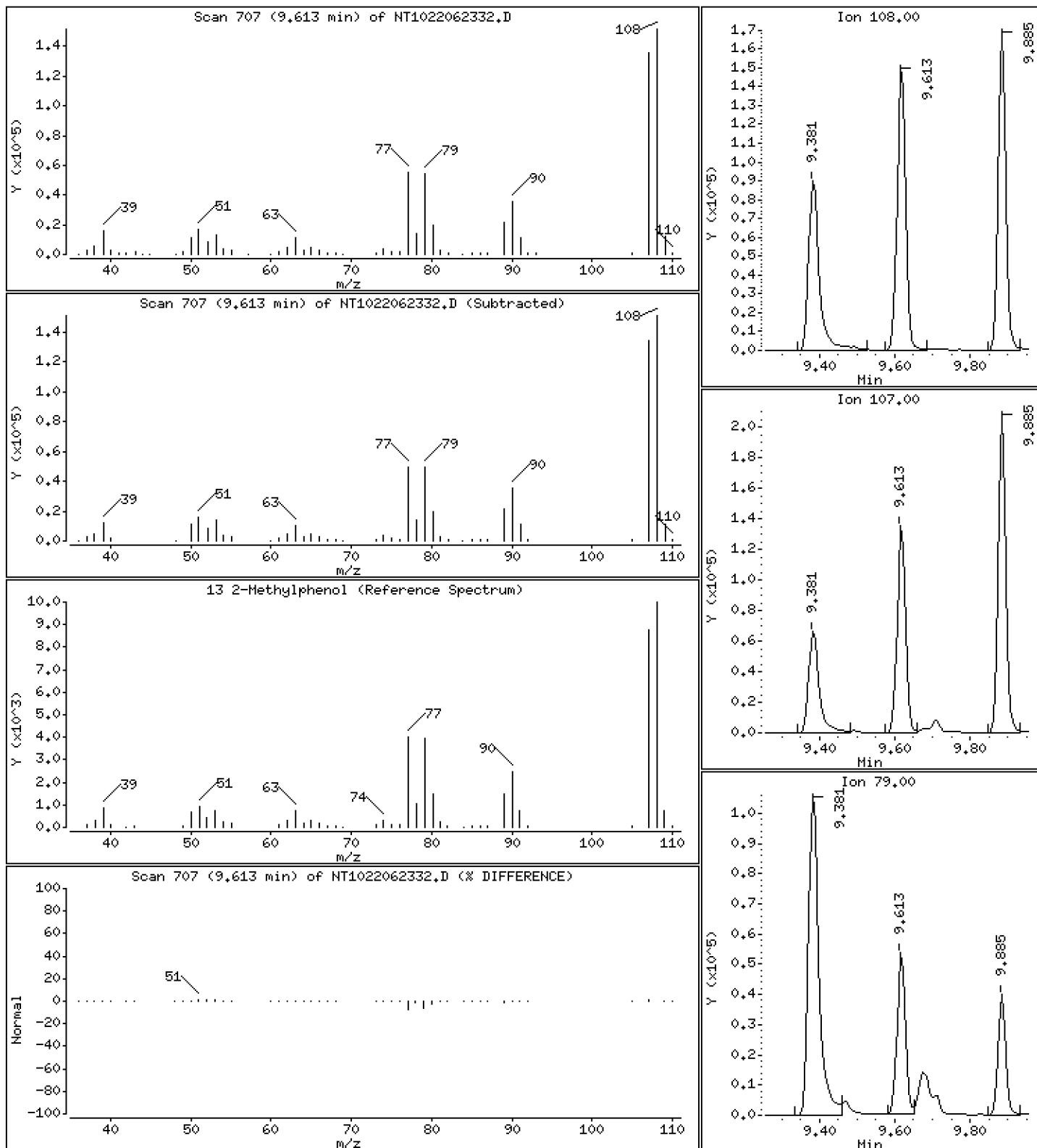
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 5.201 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

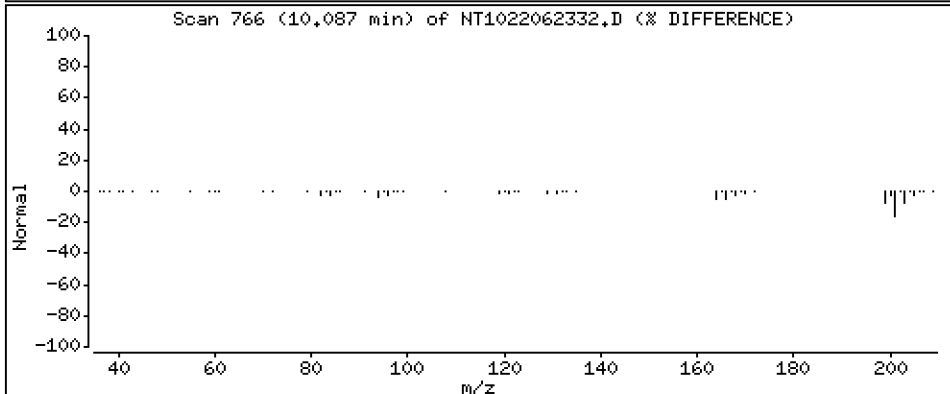
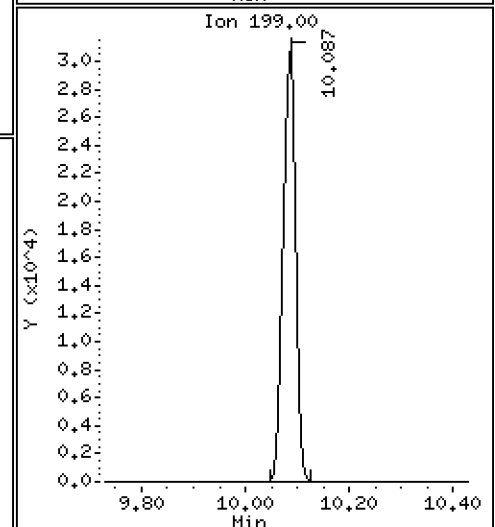
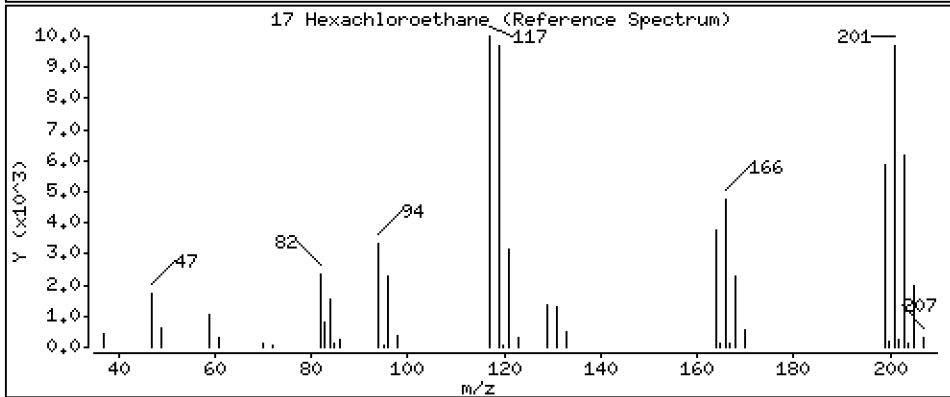
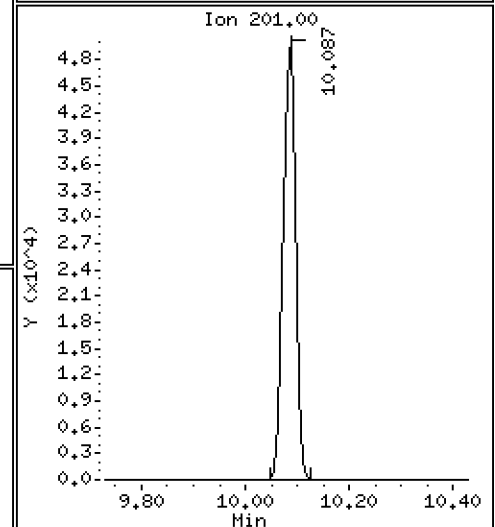
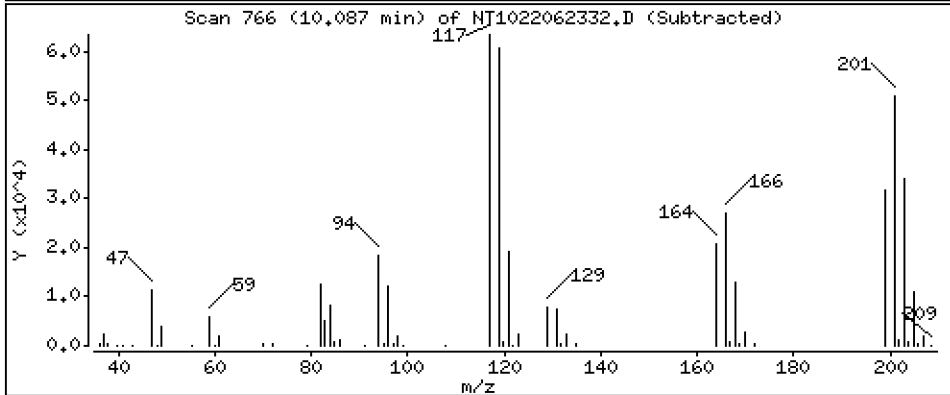
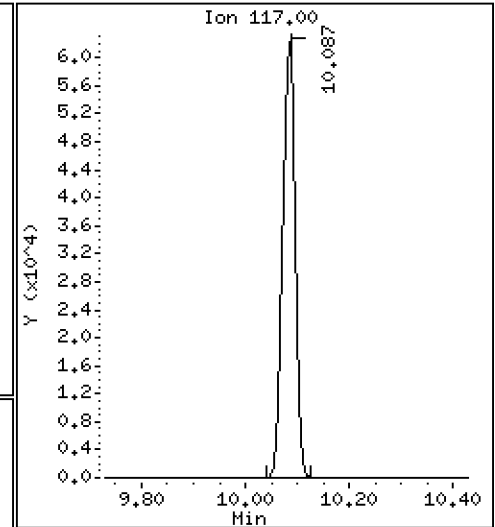
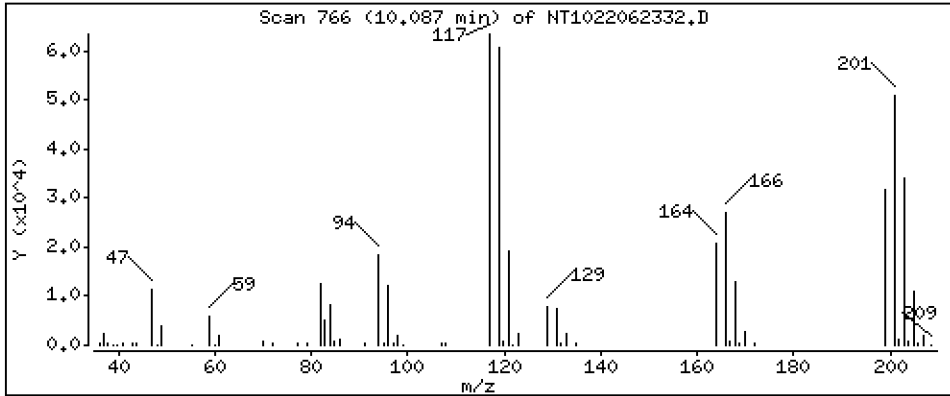
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 4,498 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

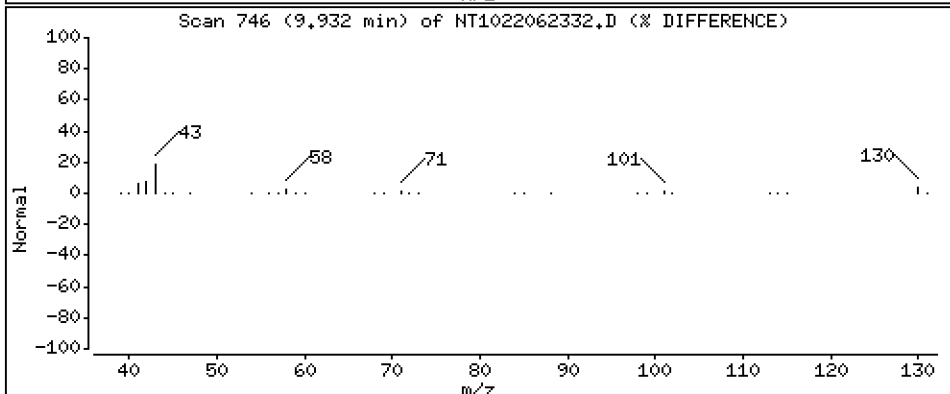
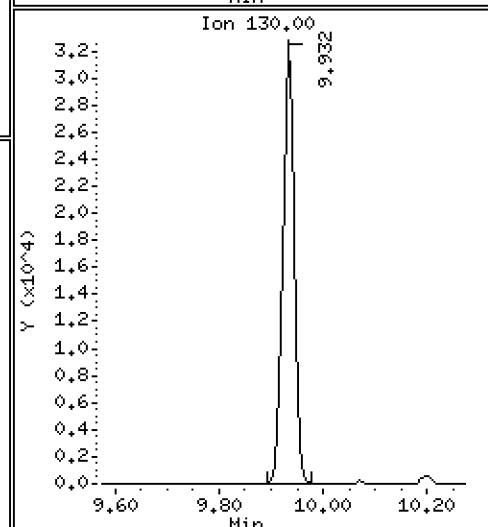
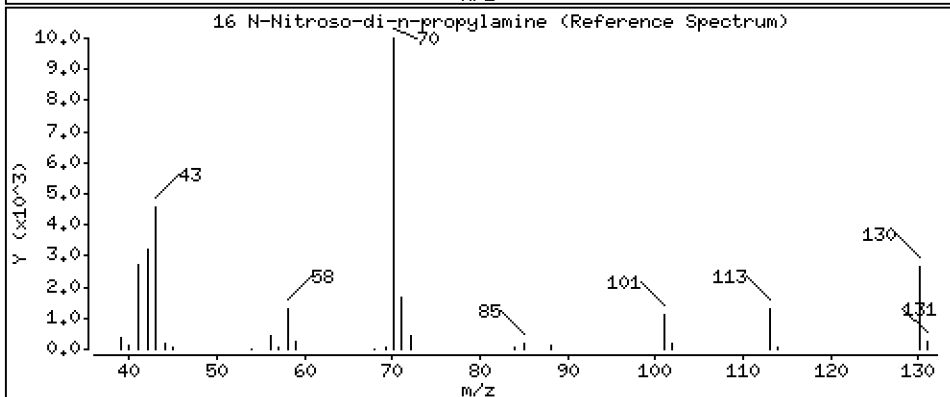
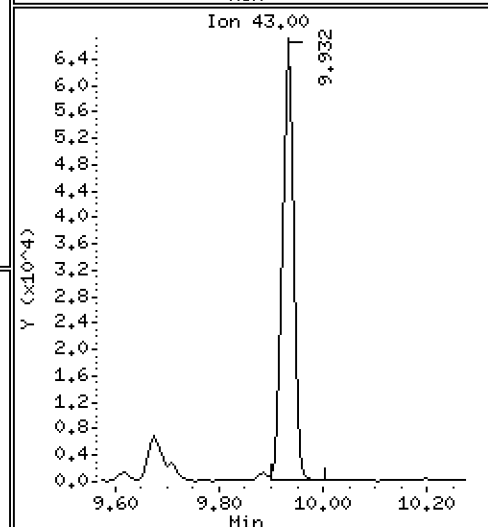
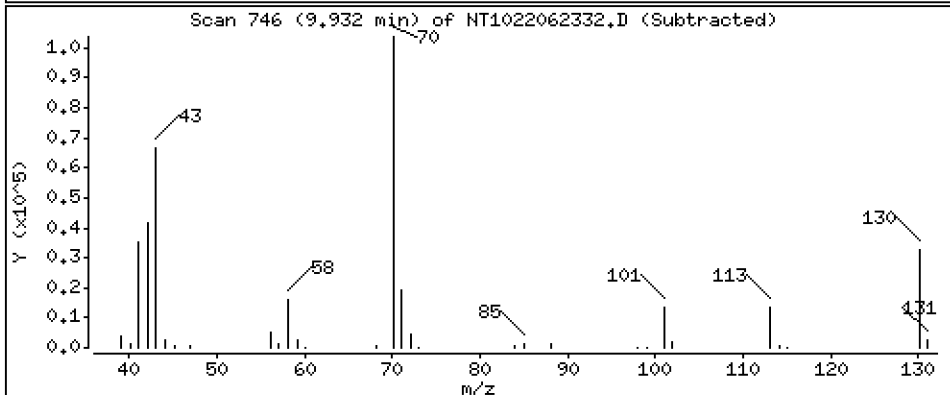
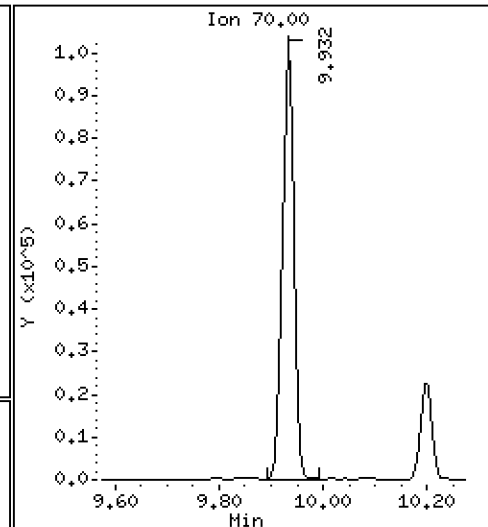
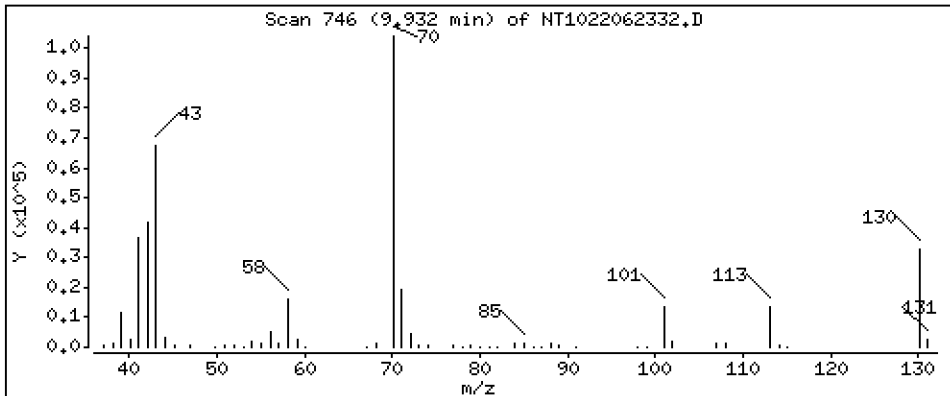
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 4,900 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

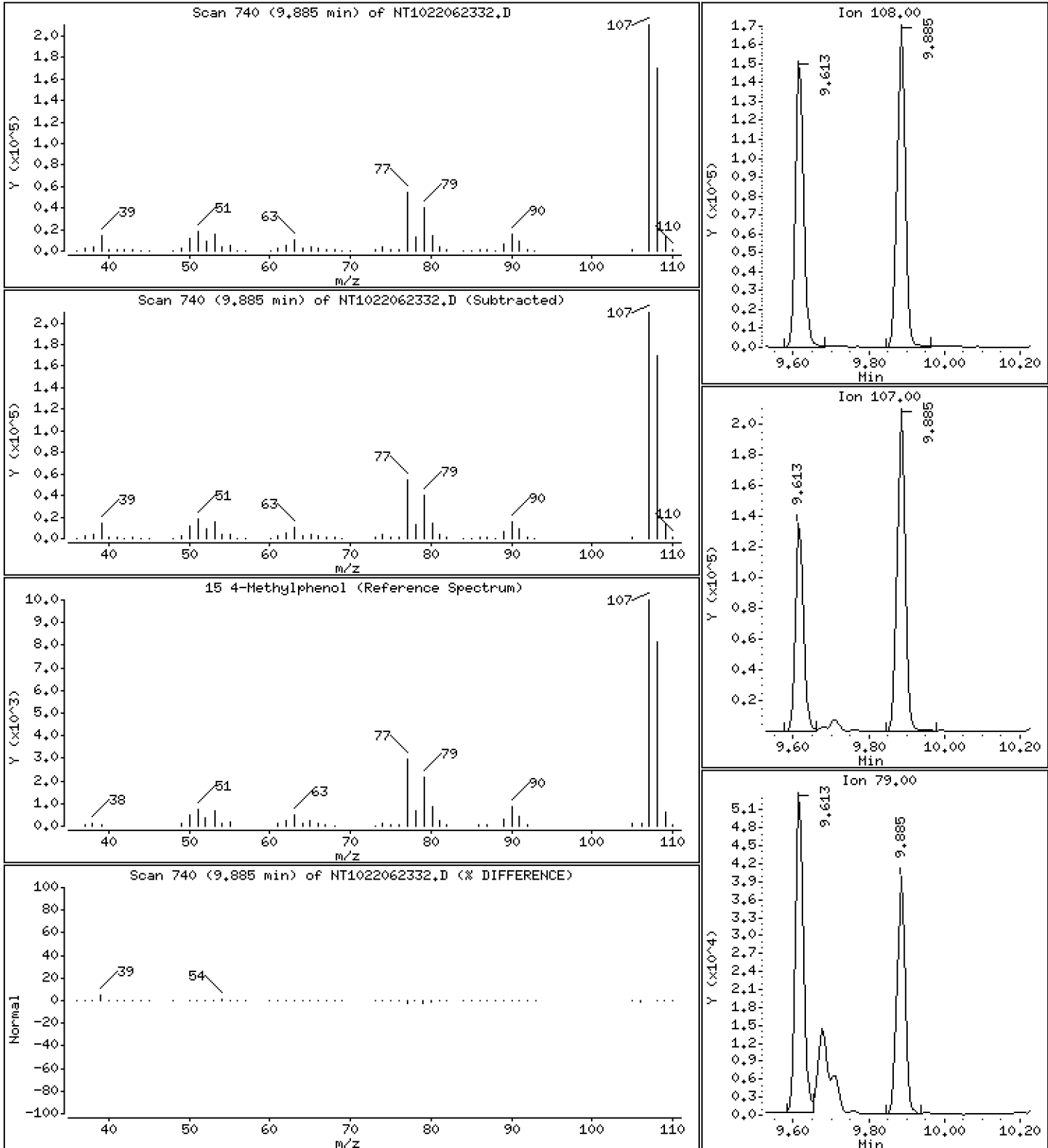
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 5.143 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

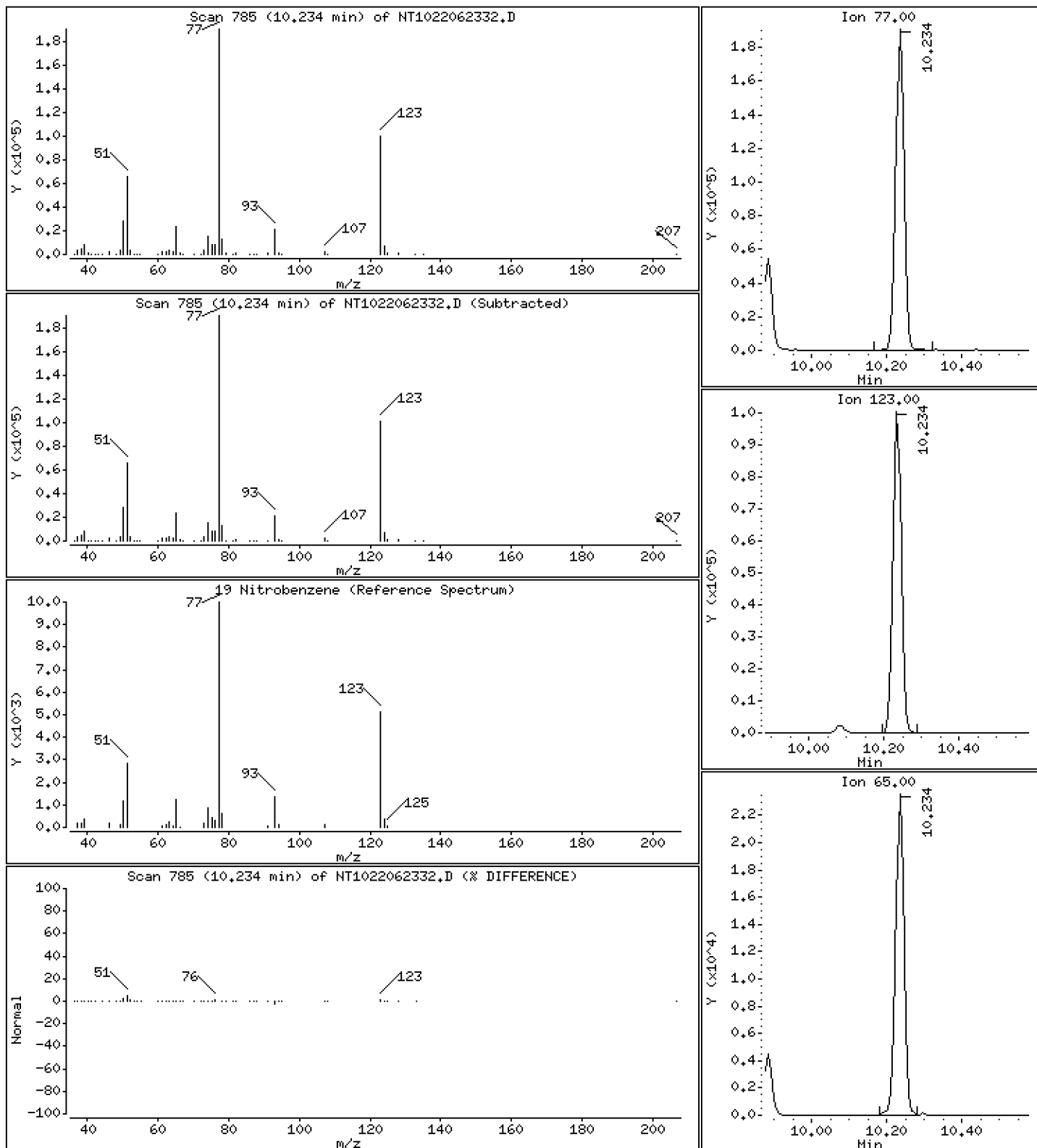
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 5,114 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

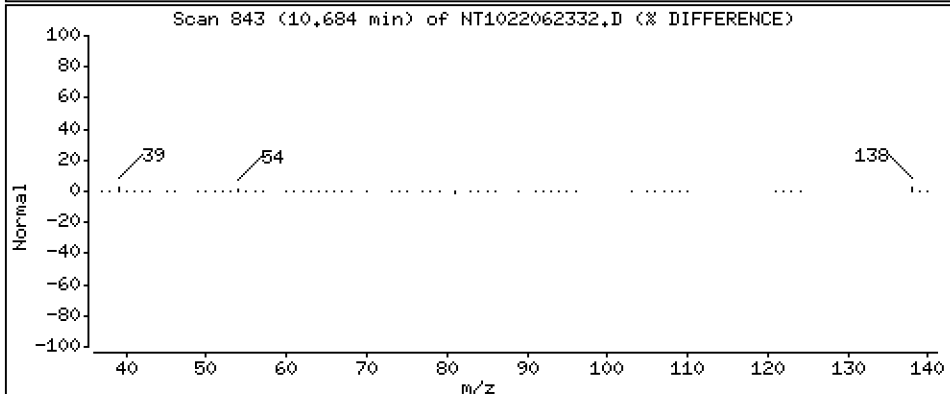
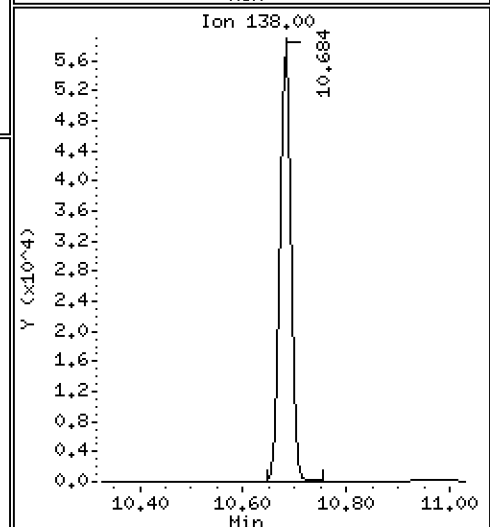
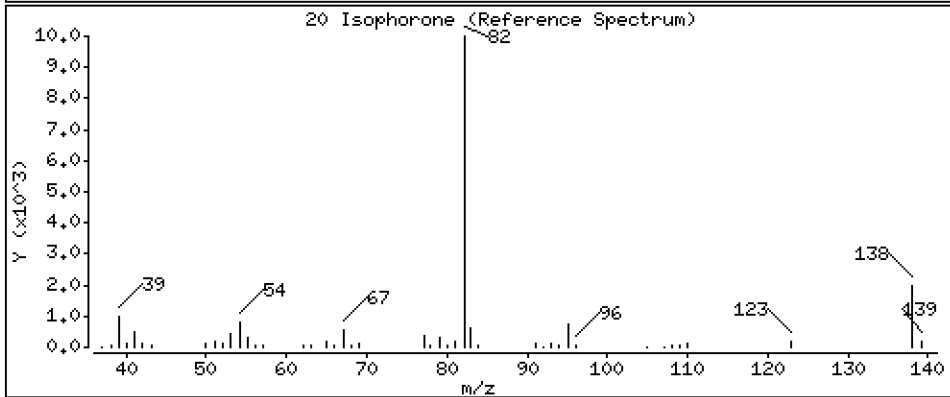
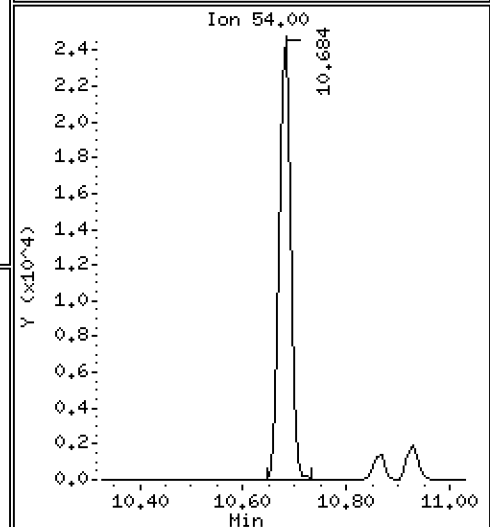
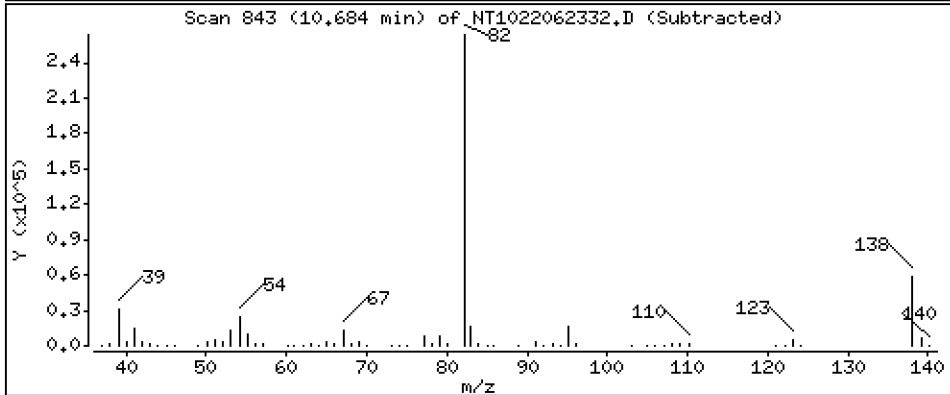
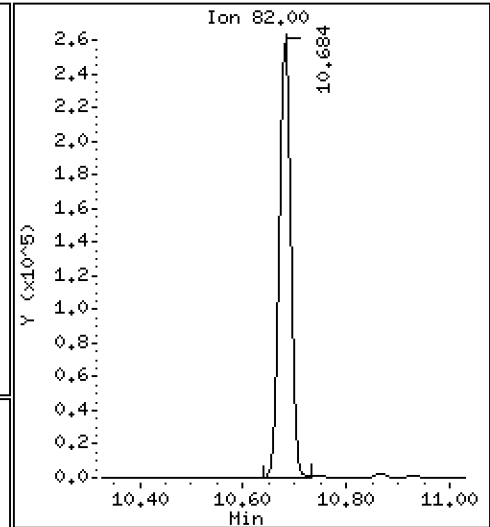
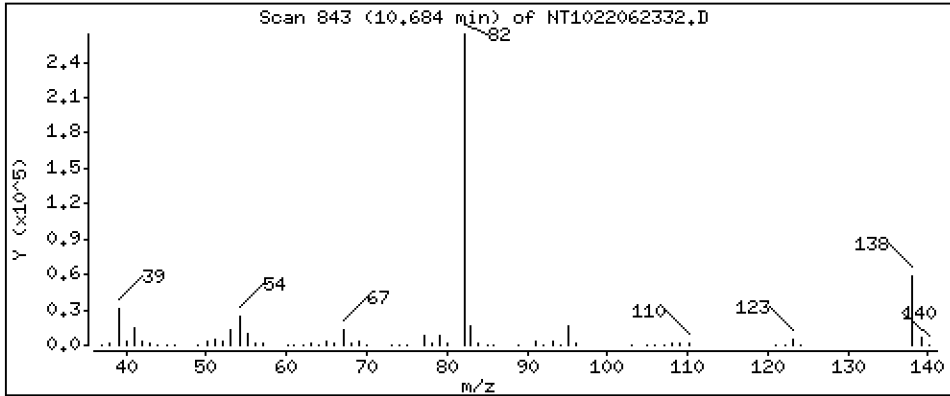
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,418 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

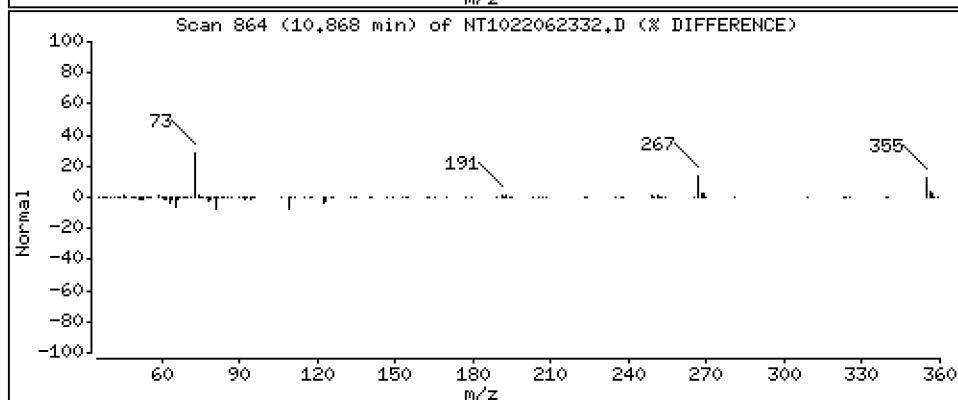
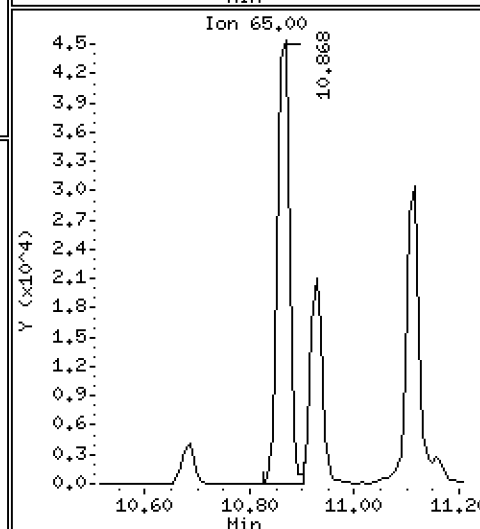
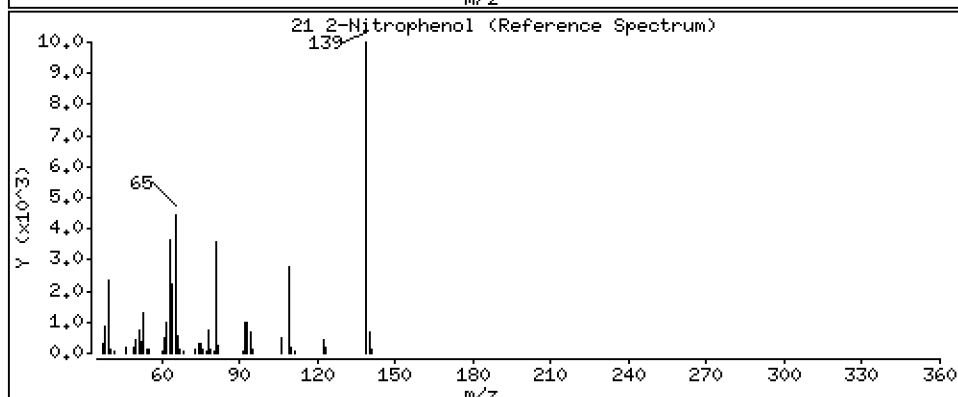
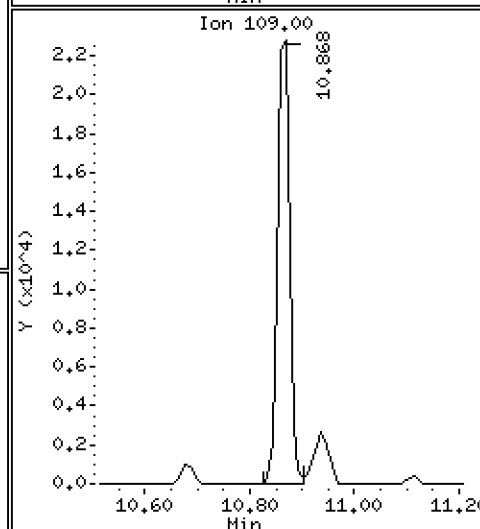
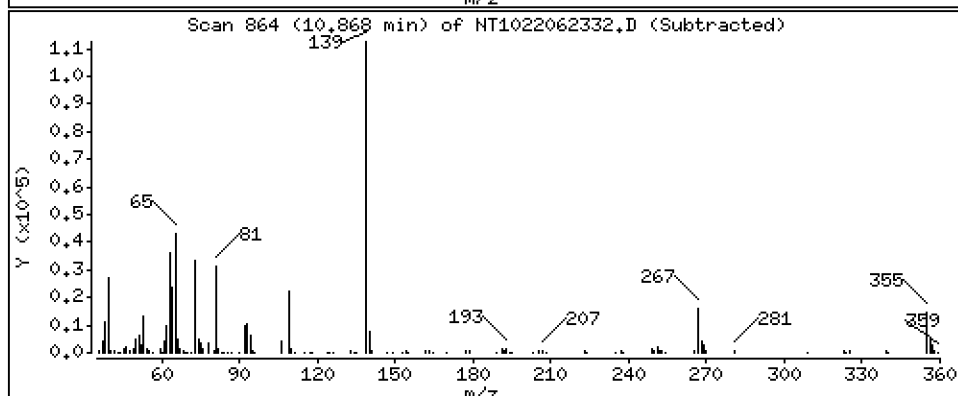
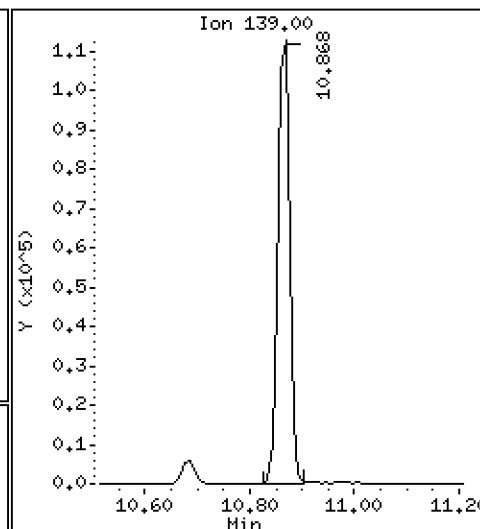
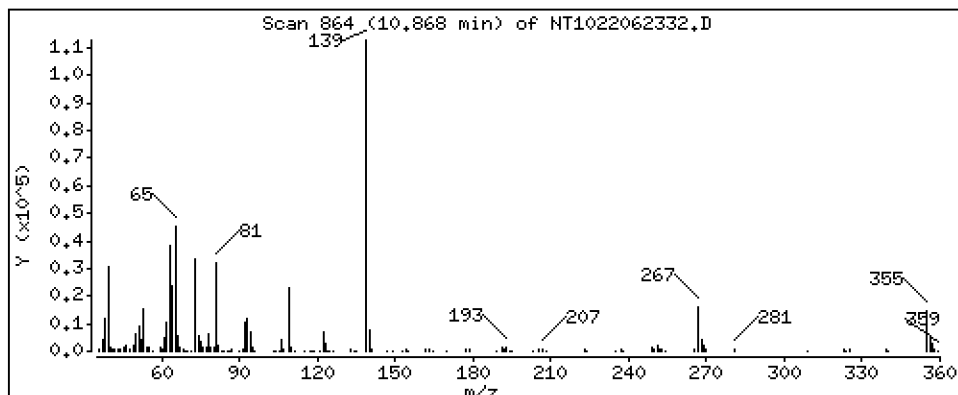
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,253 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

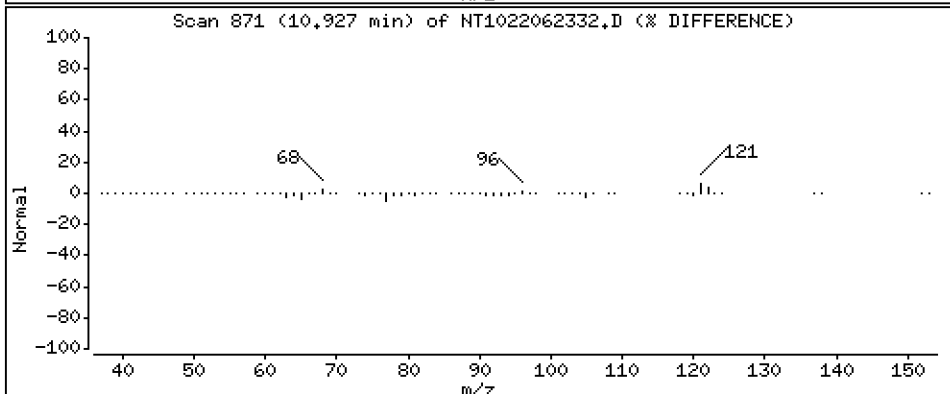
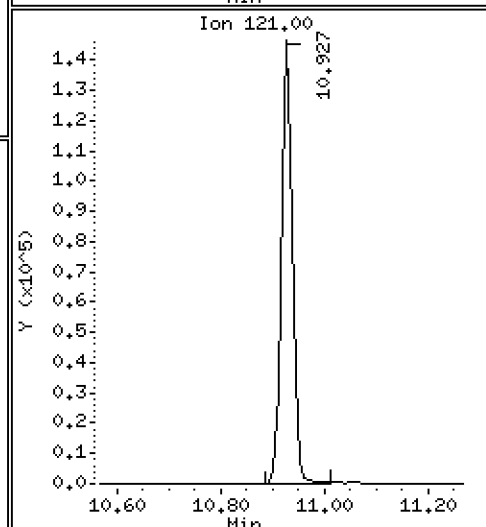
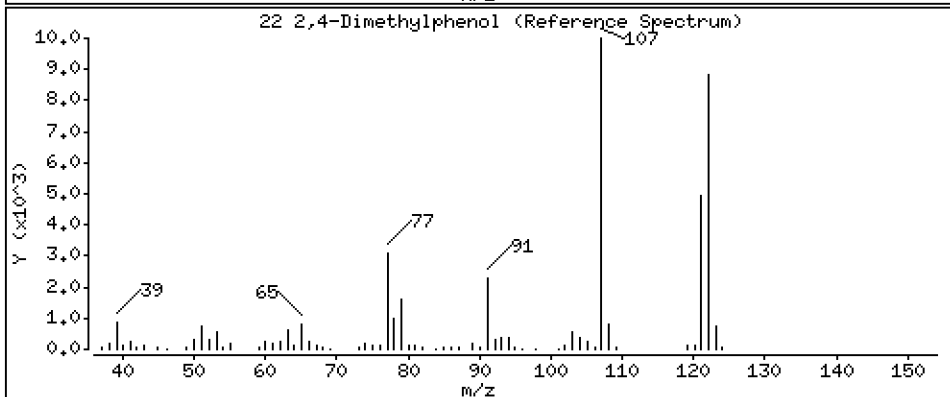
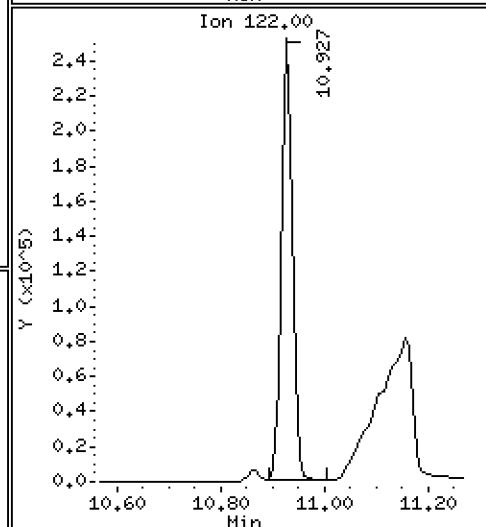
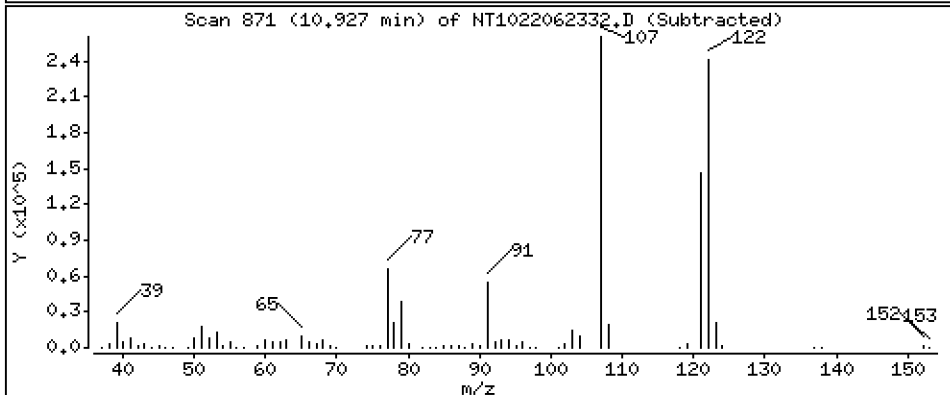
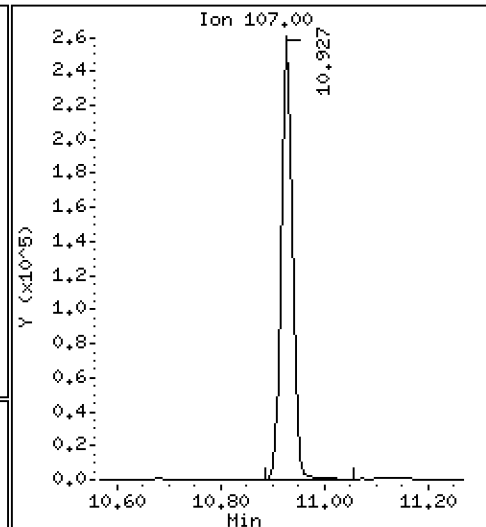
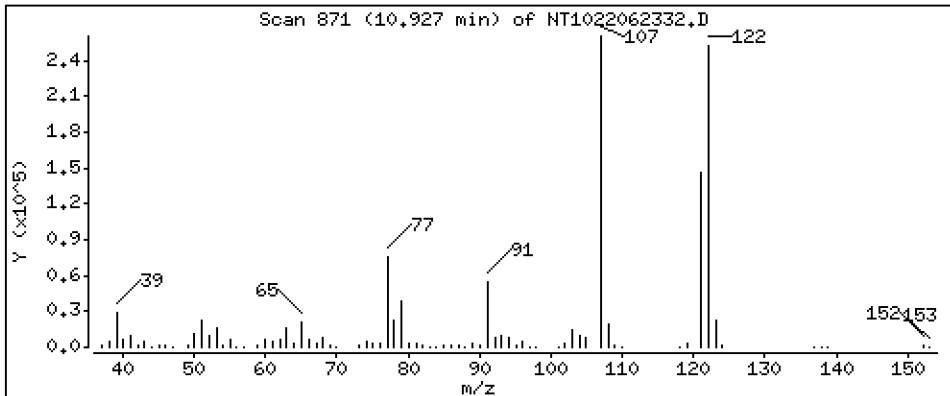
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 9,672 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

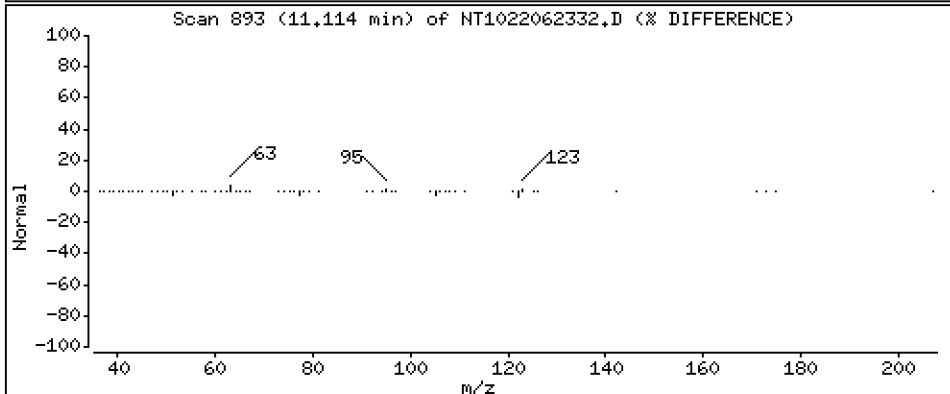
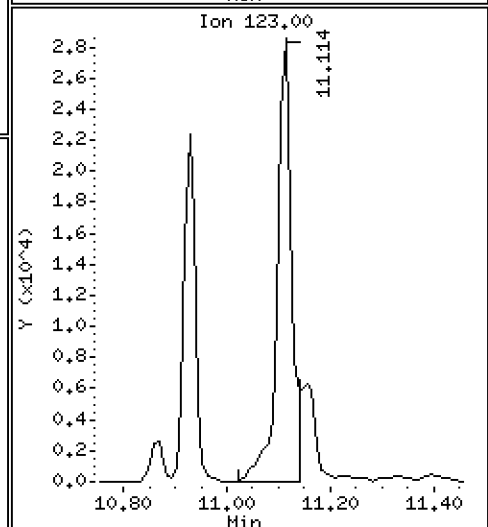
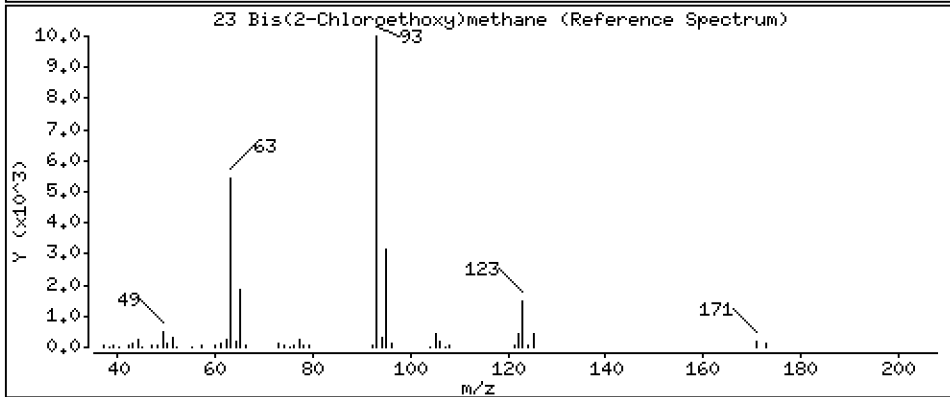
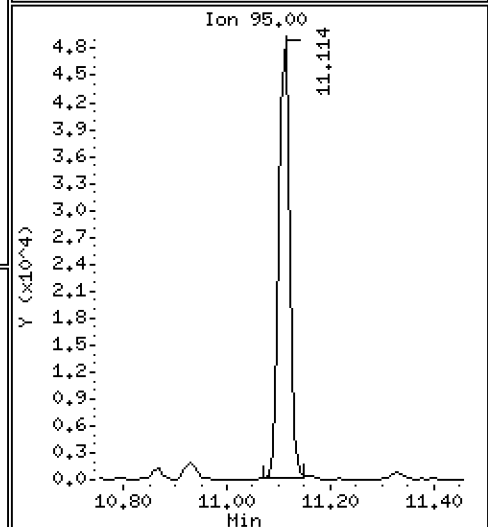
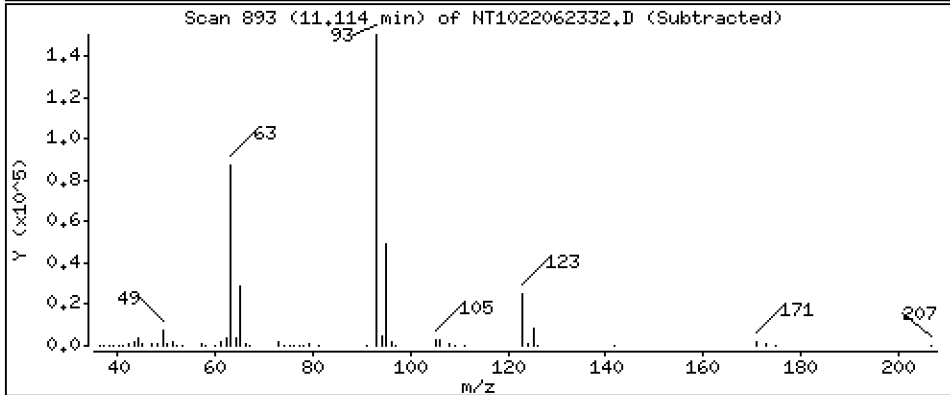
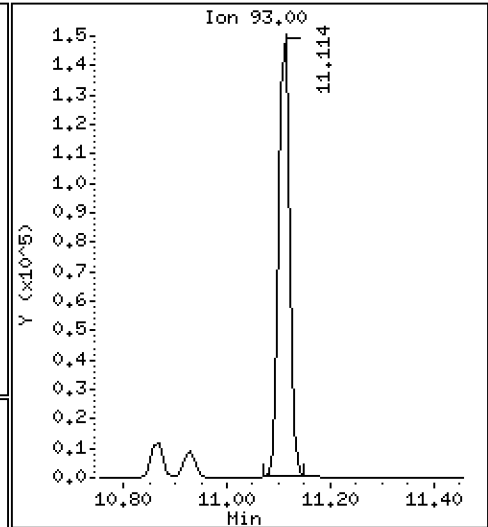
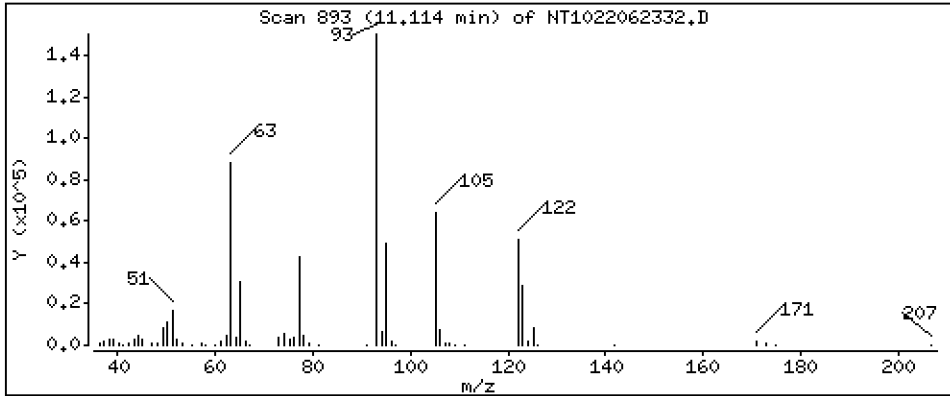
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 4,674 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

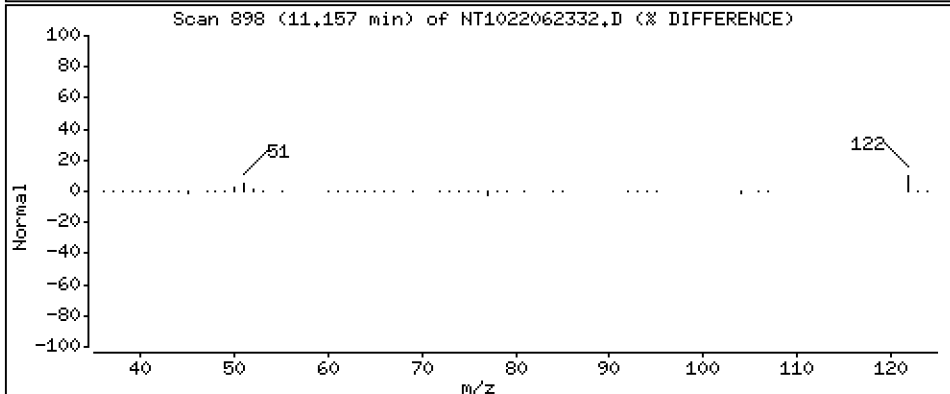
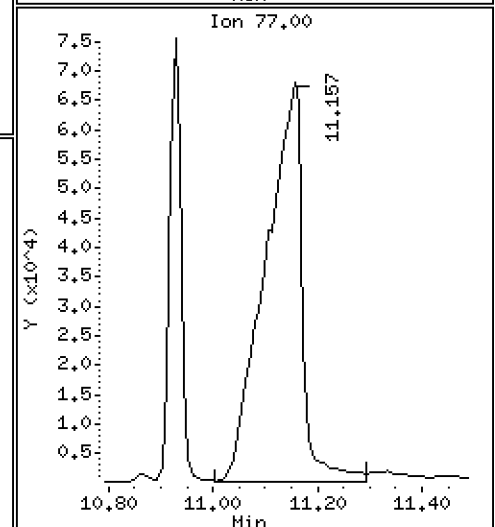
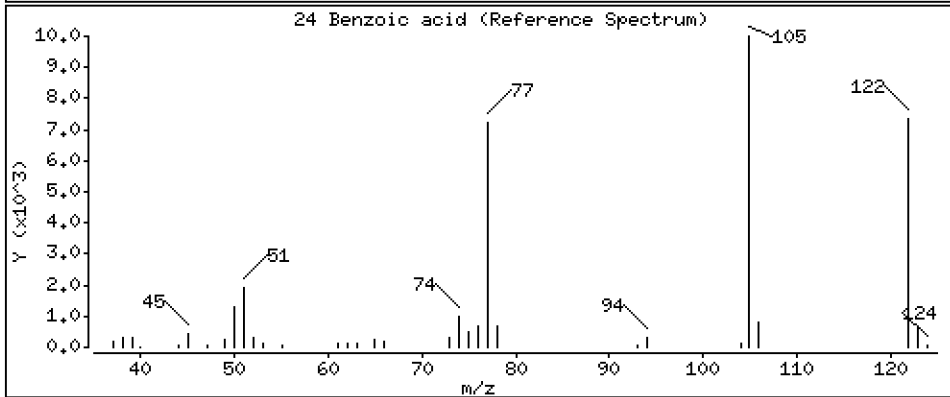
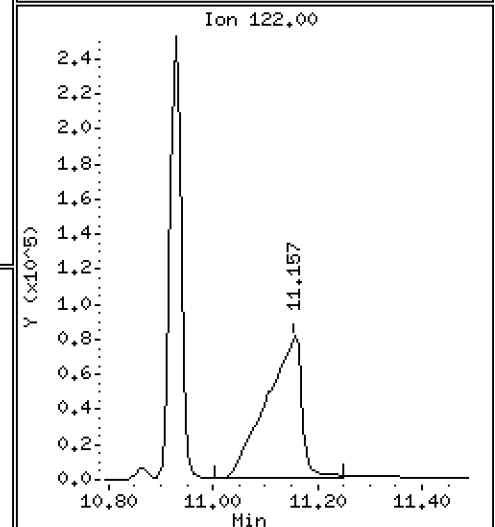
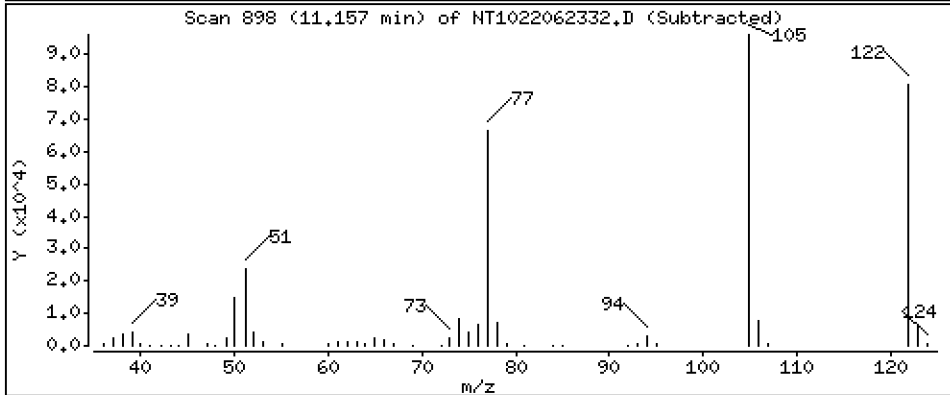
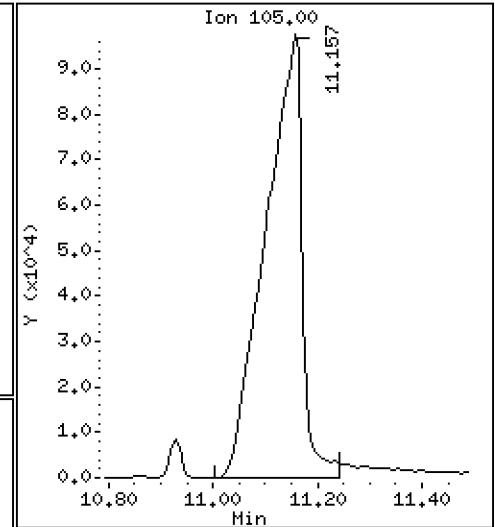
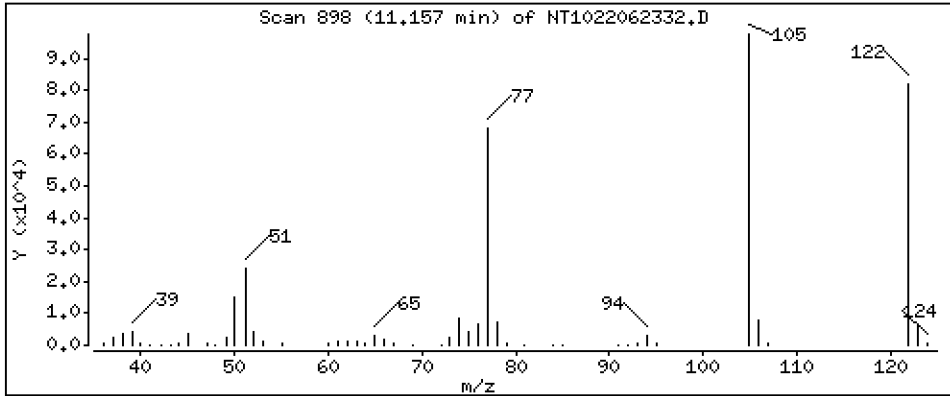
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 21,57 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

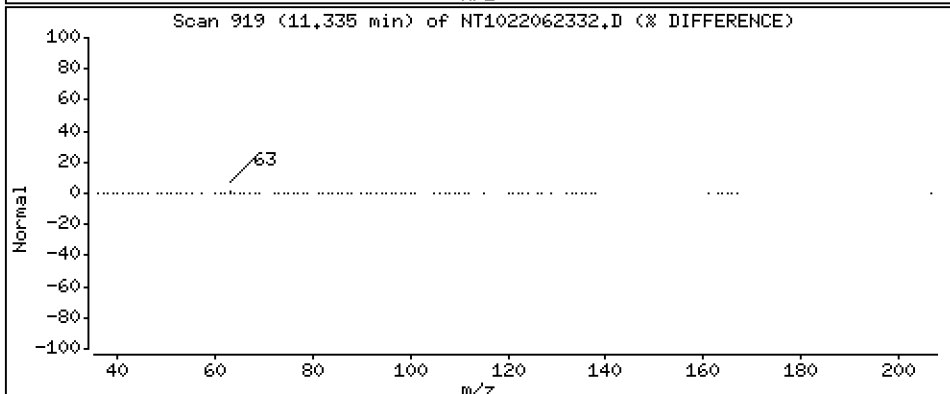
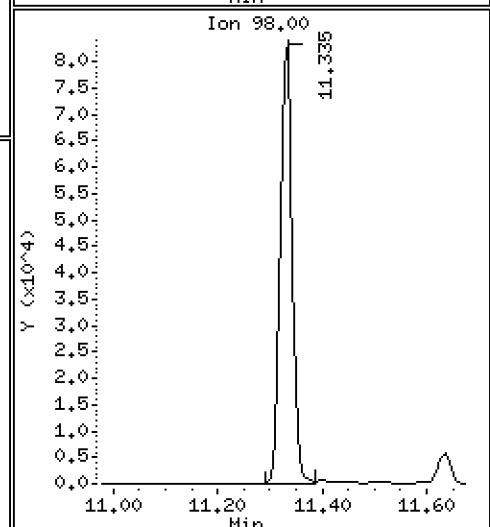
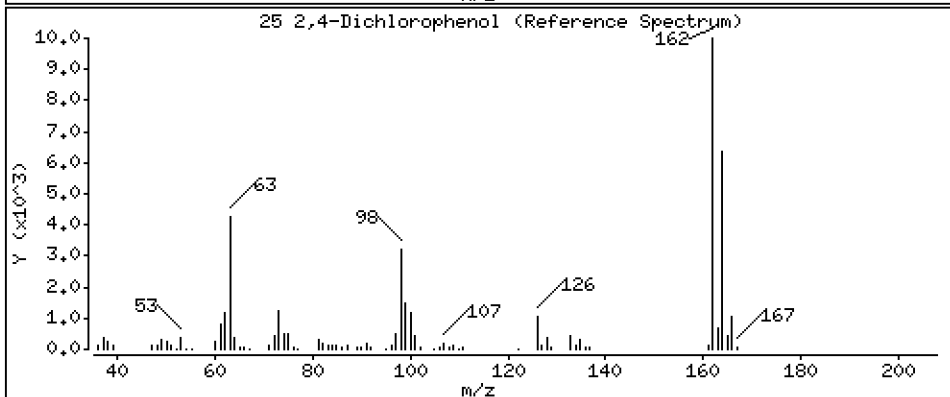
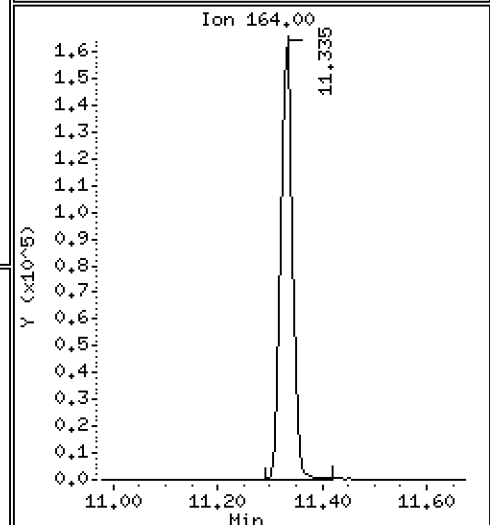
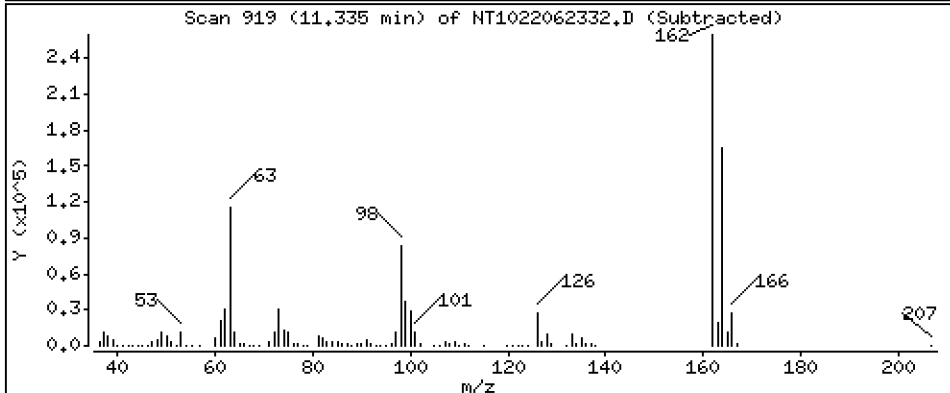
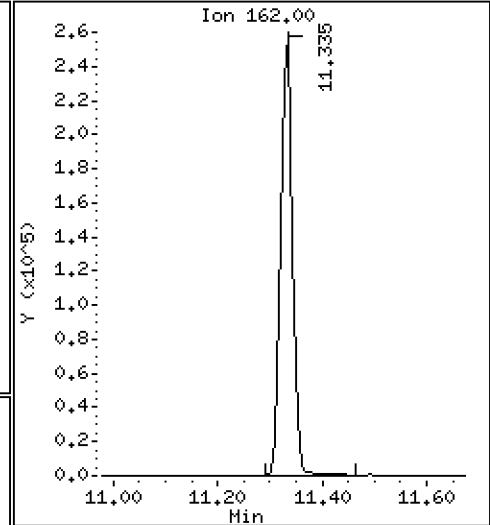
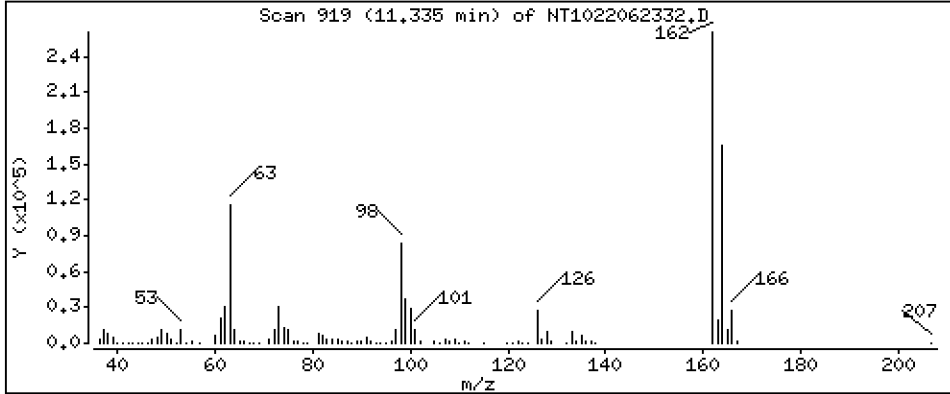
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 10,33 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

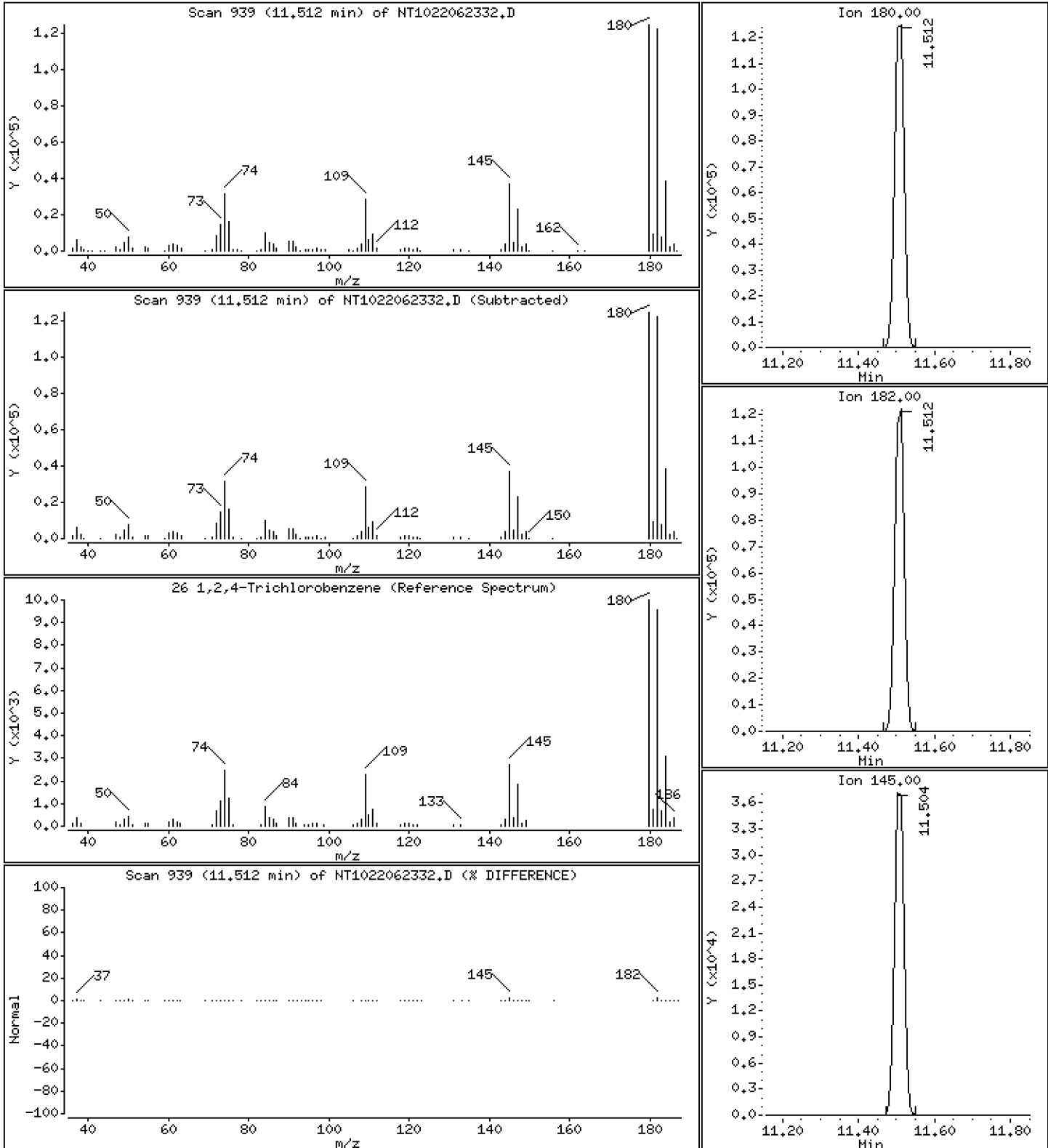
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,563 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

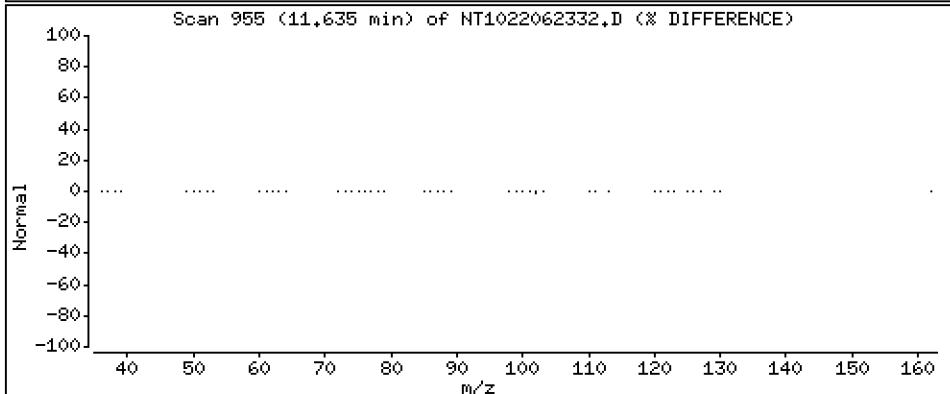
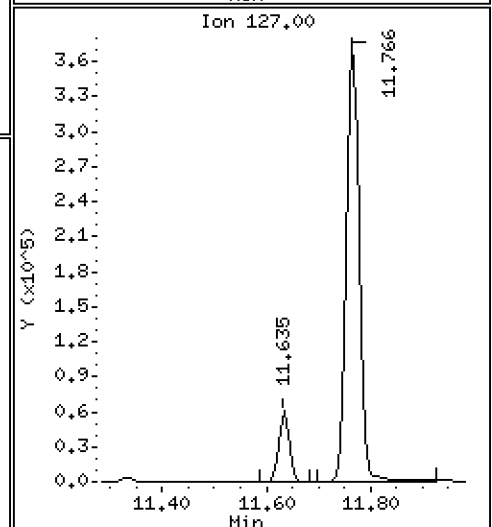
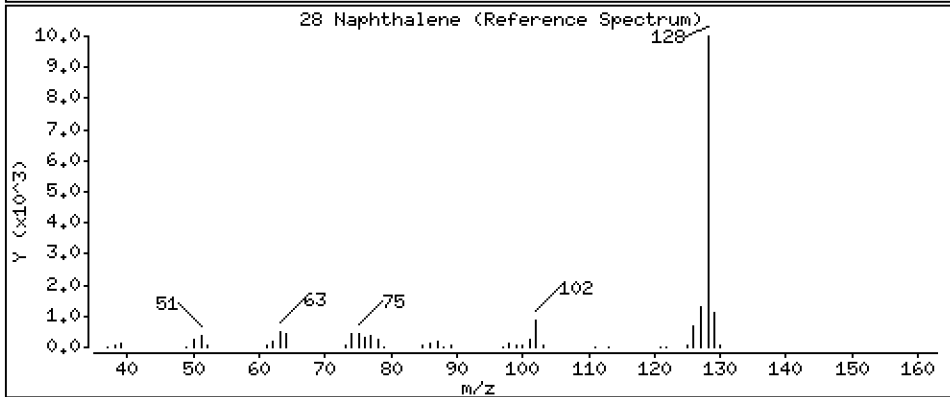
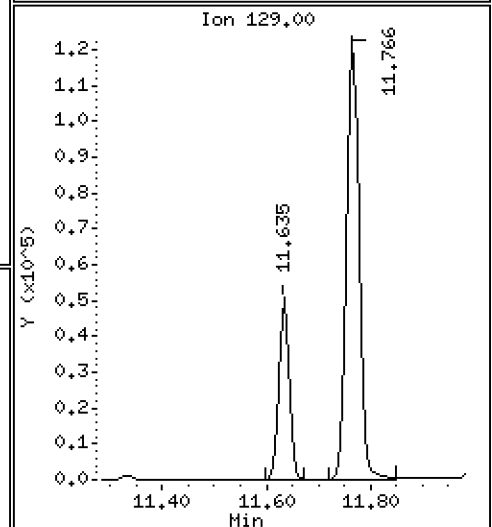
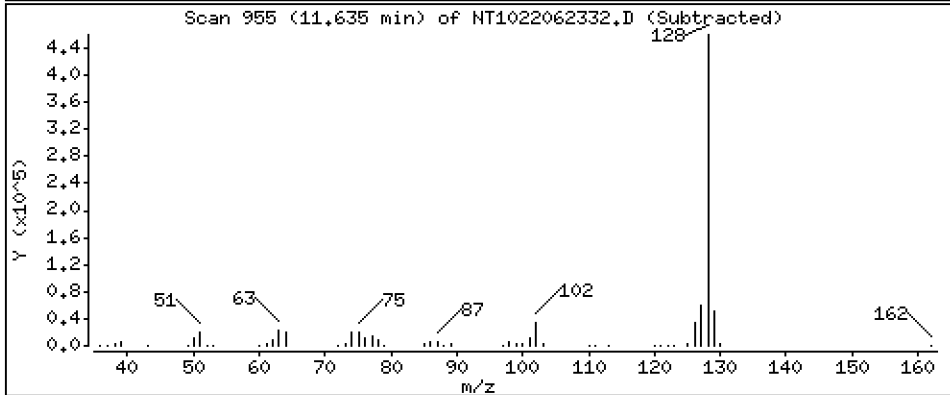
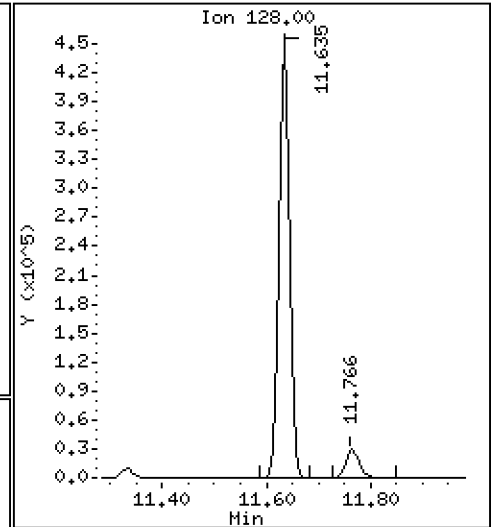
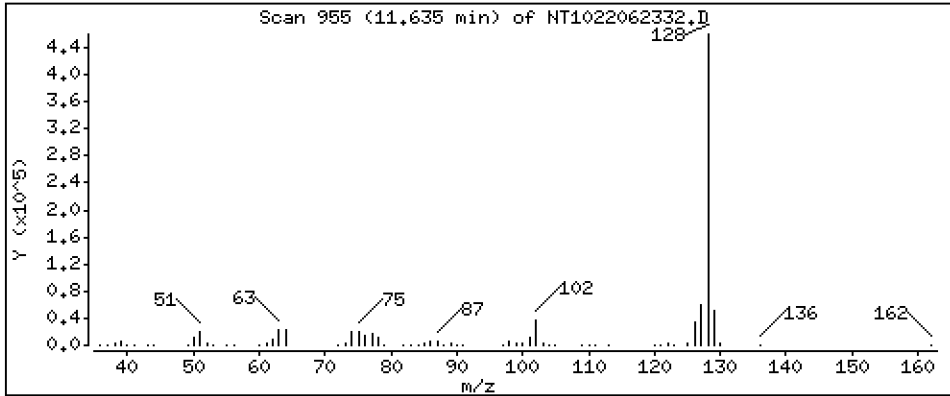
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 5,180 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

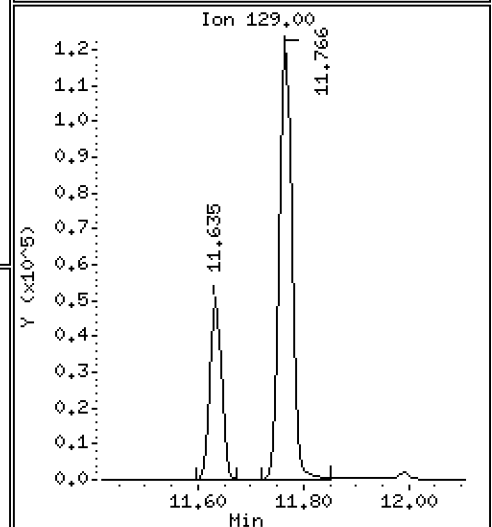
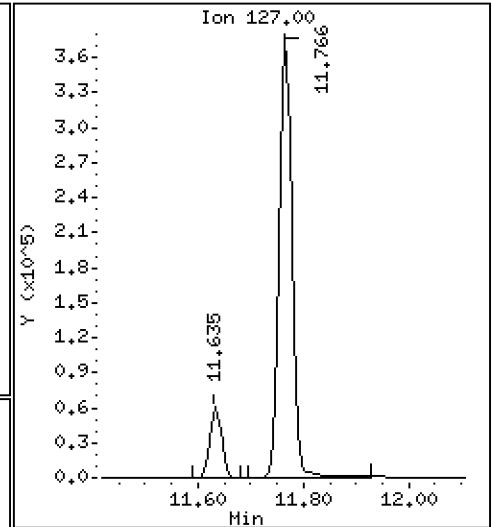
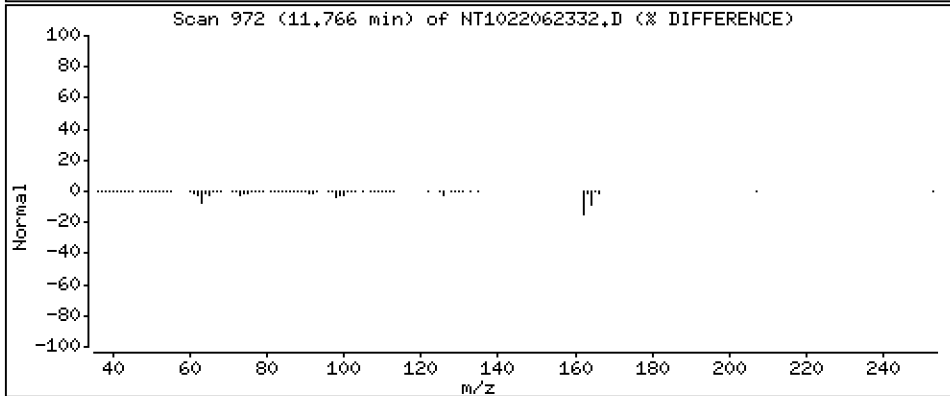
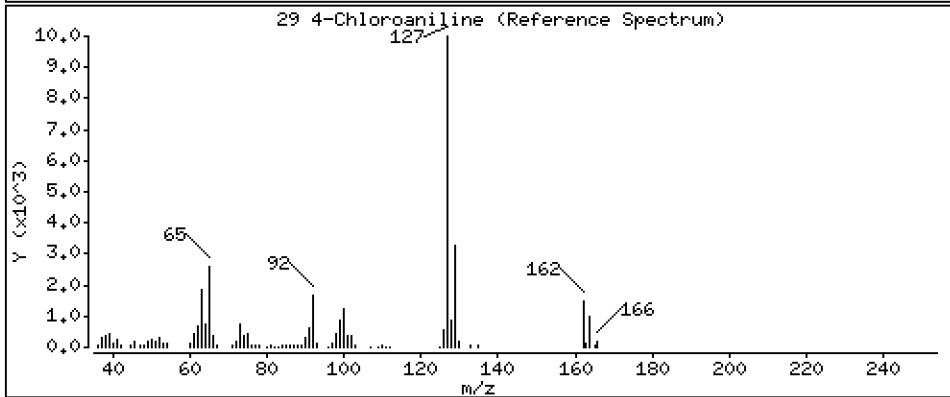
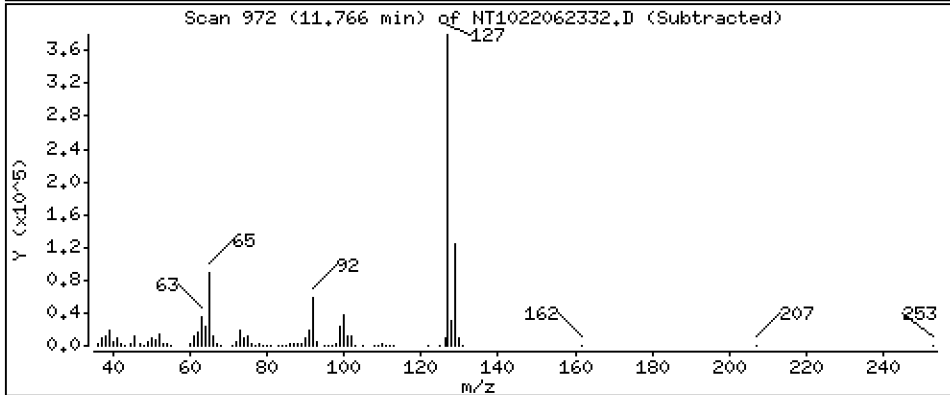
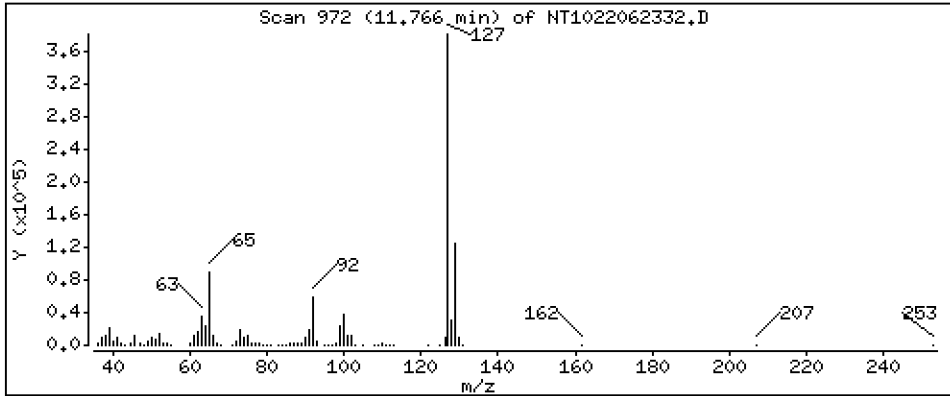
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 11,36 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

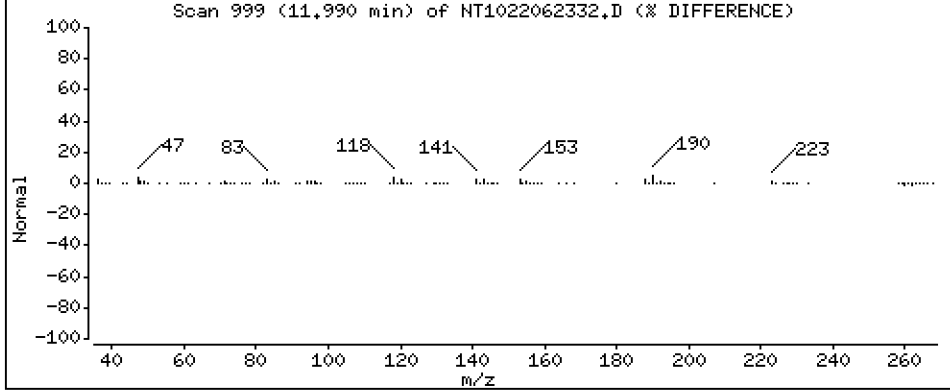
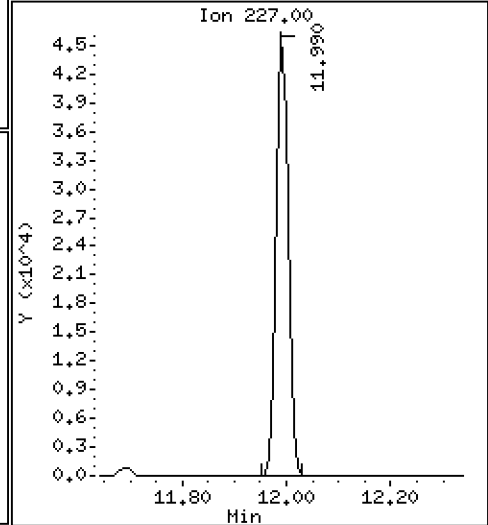
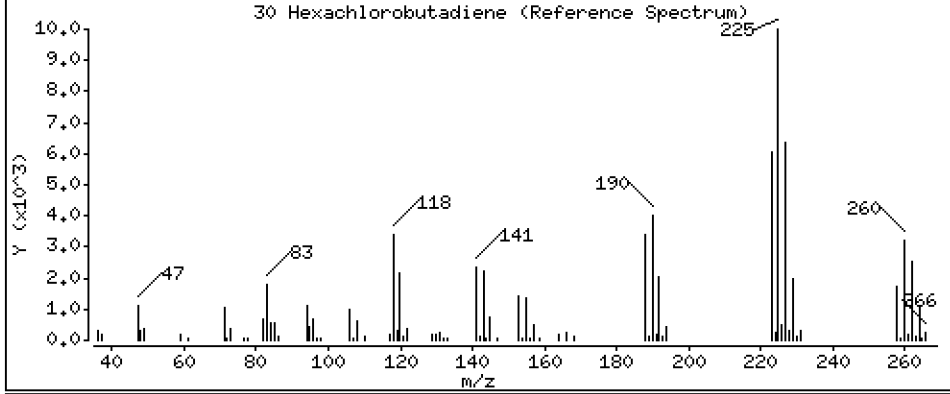
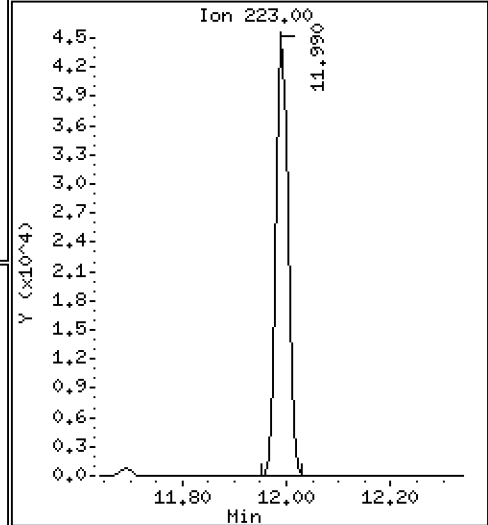
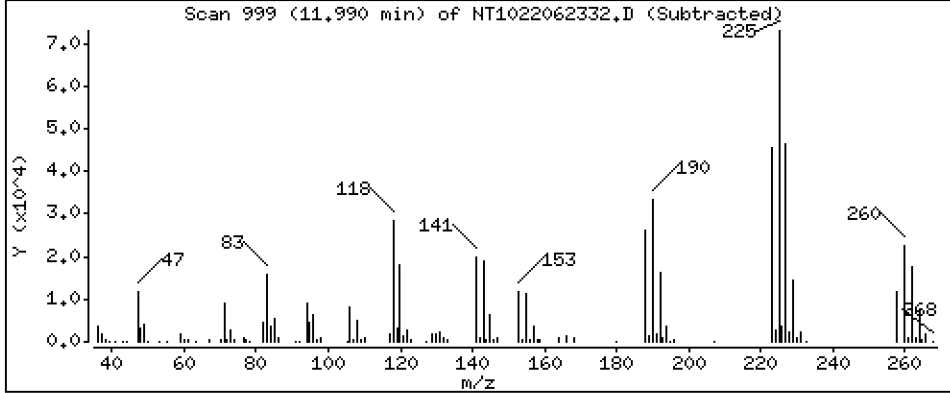
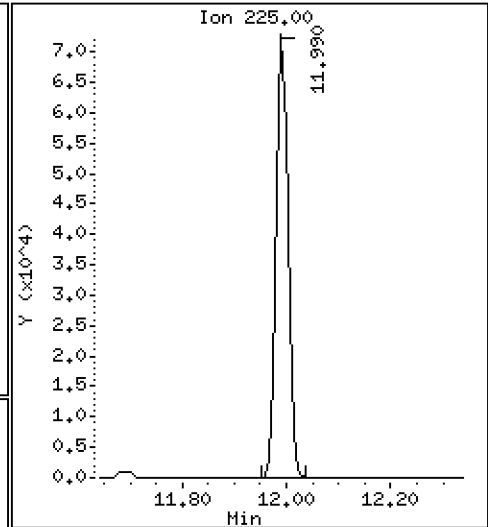
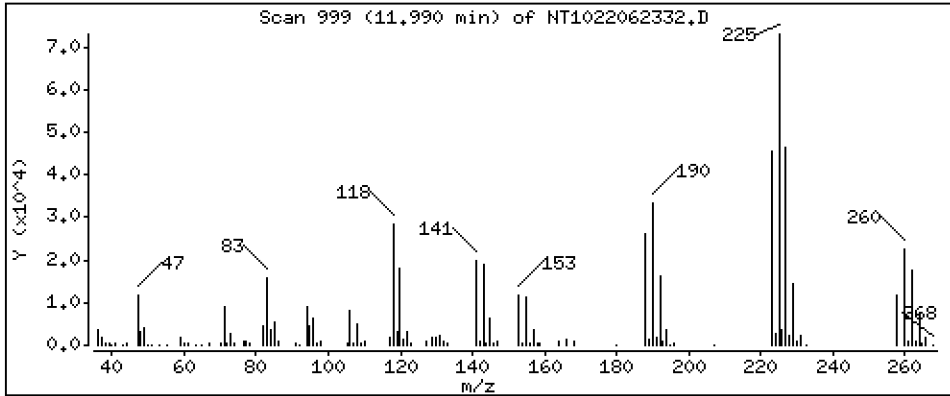
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 5,031 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

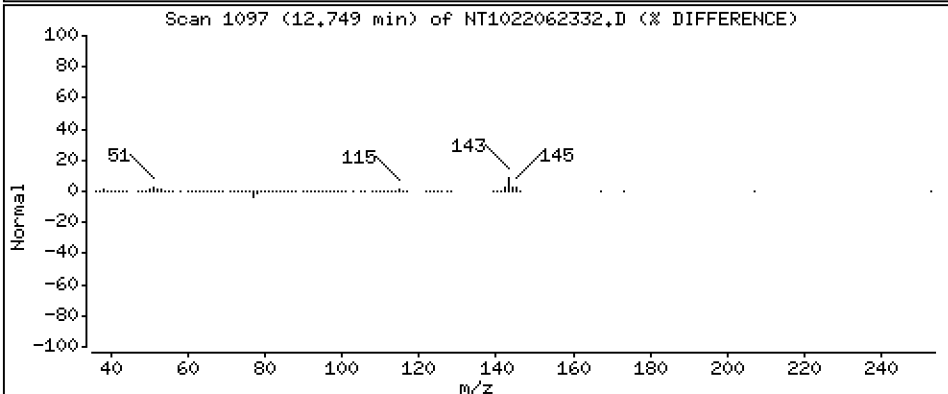
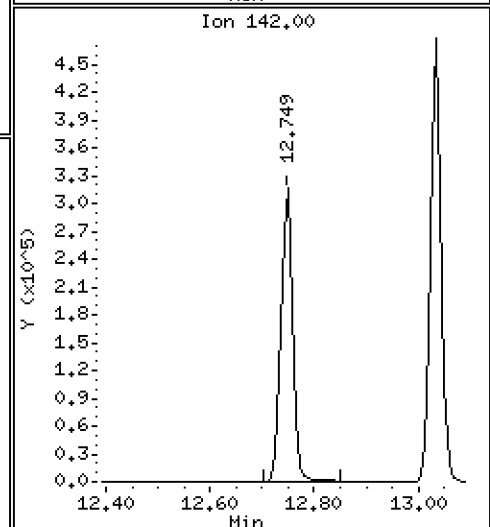
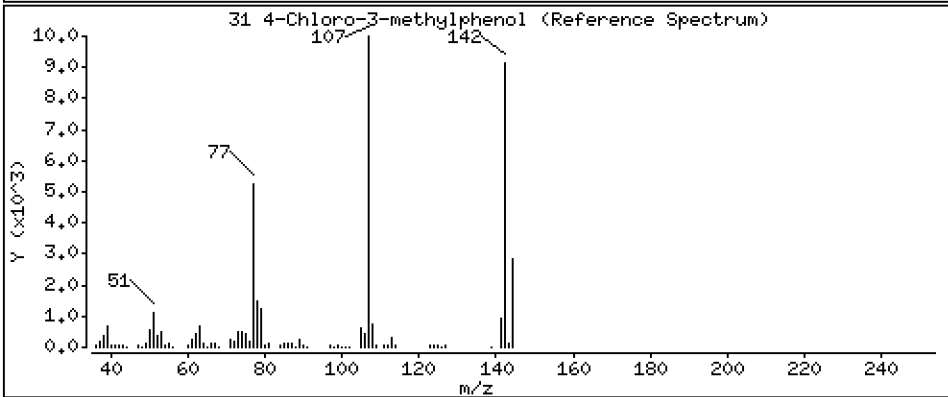
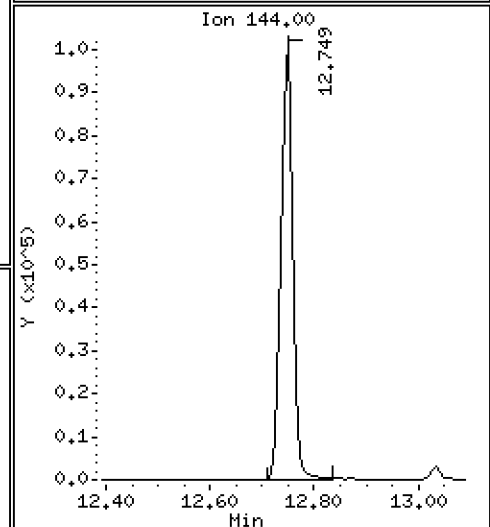
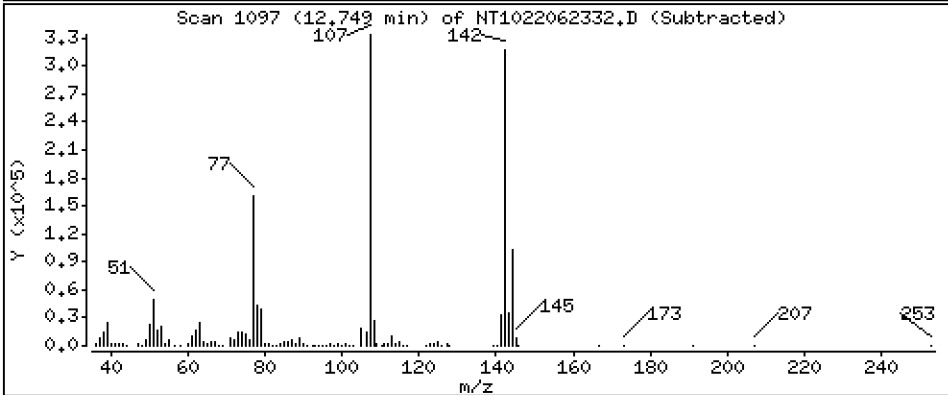
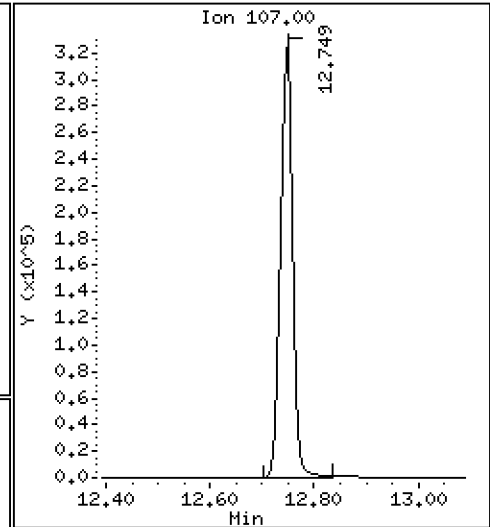
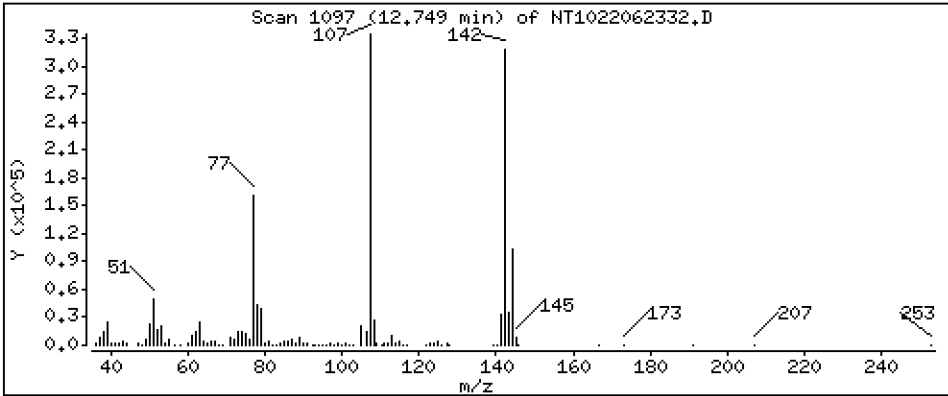
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 9,939 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

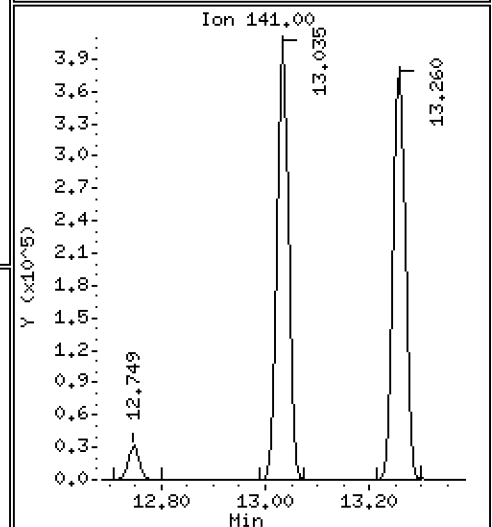
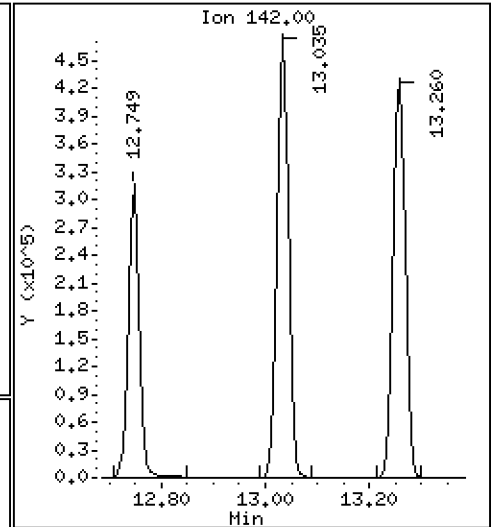
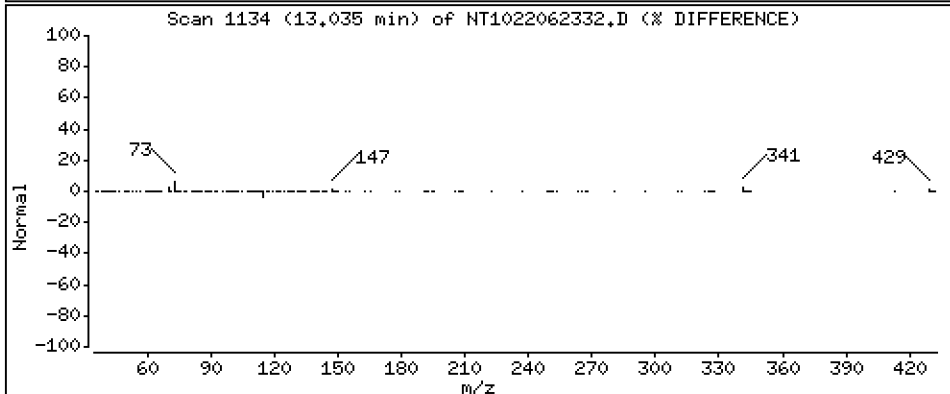
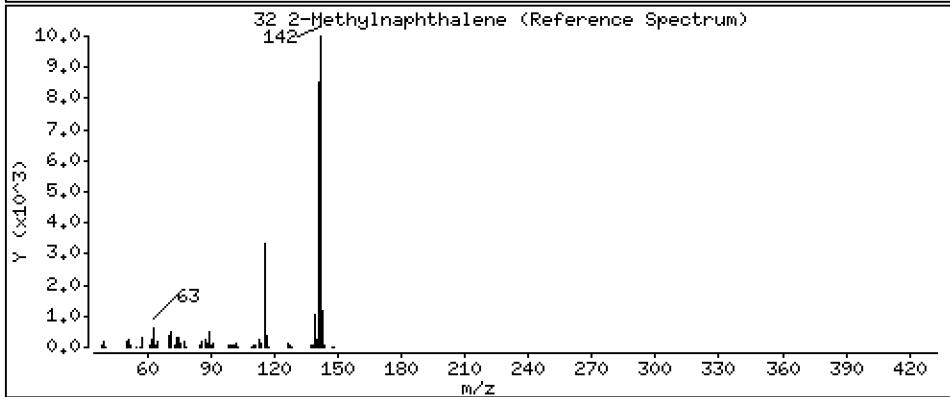
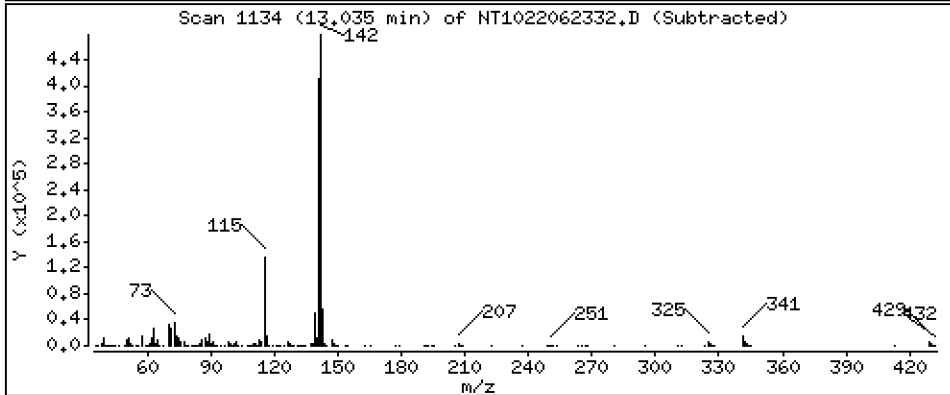
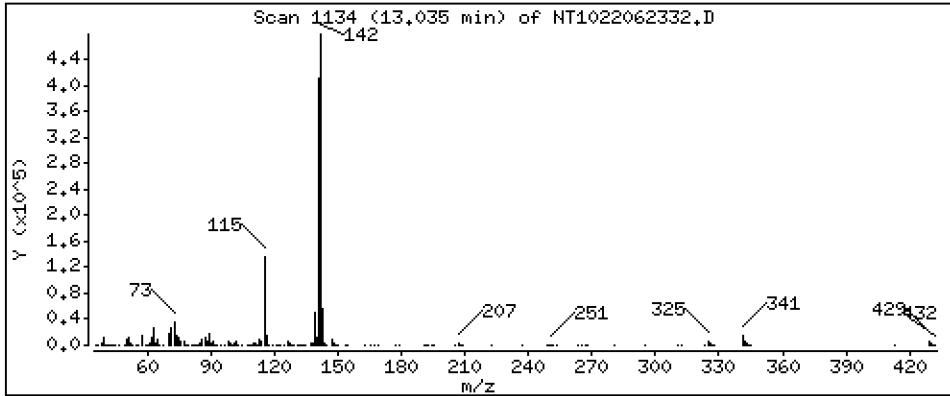
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 5,333 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

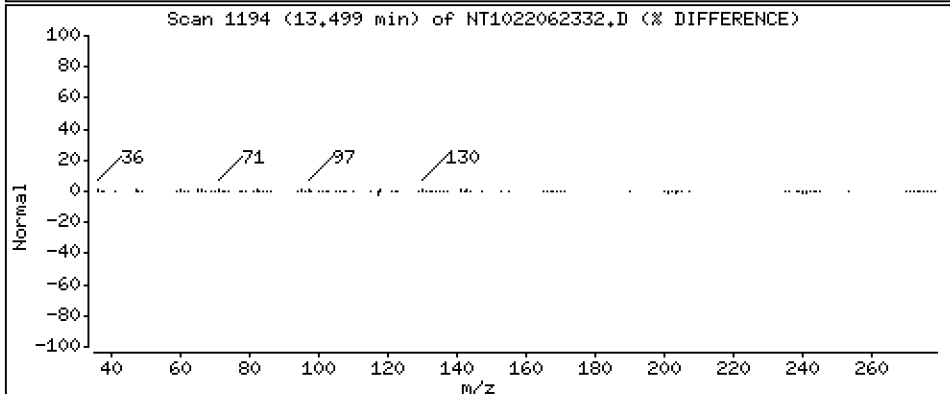
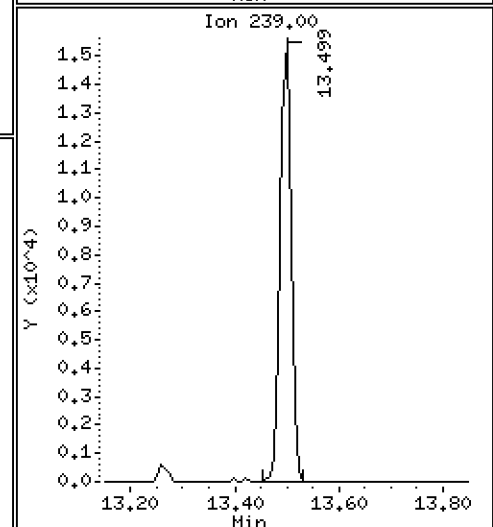
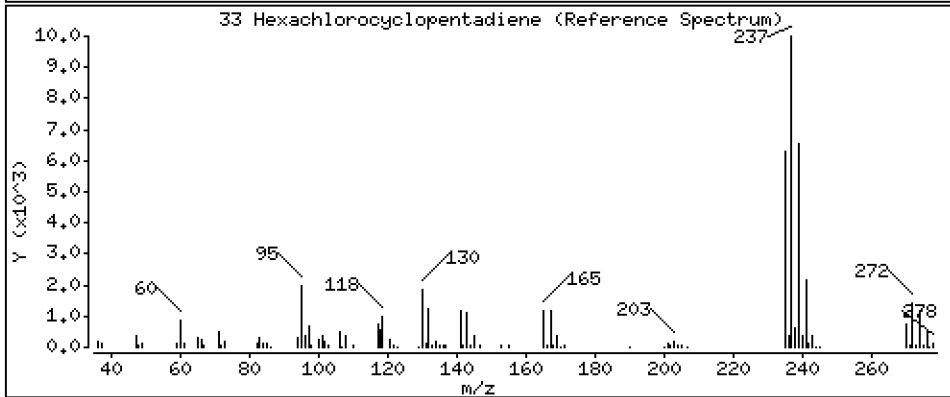
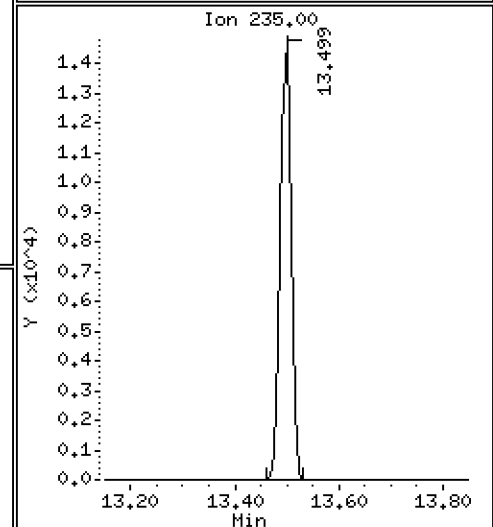
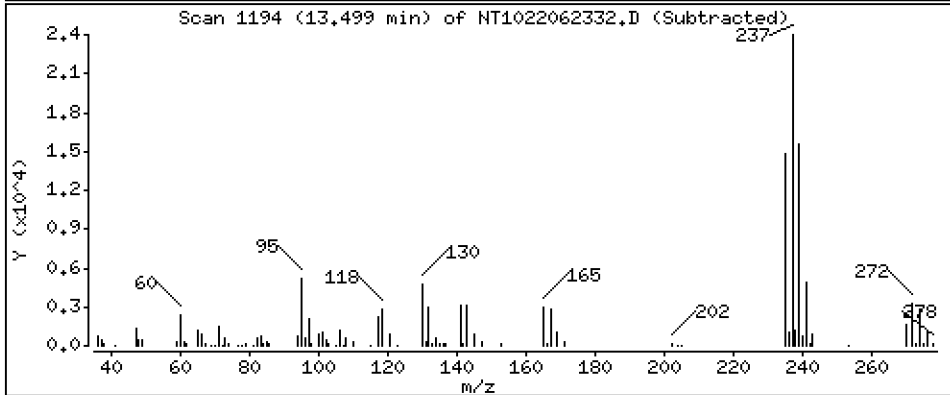
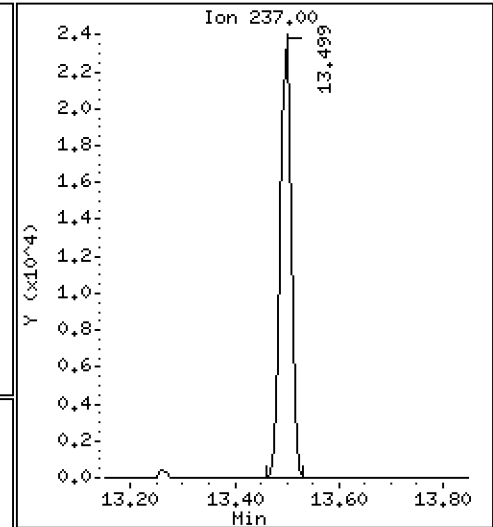
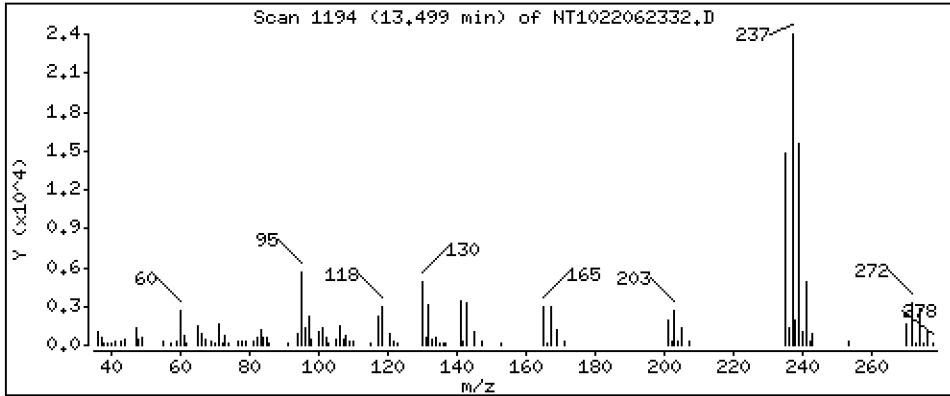
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 1,959 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

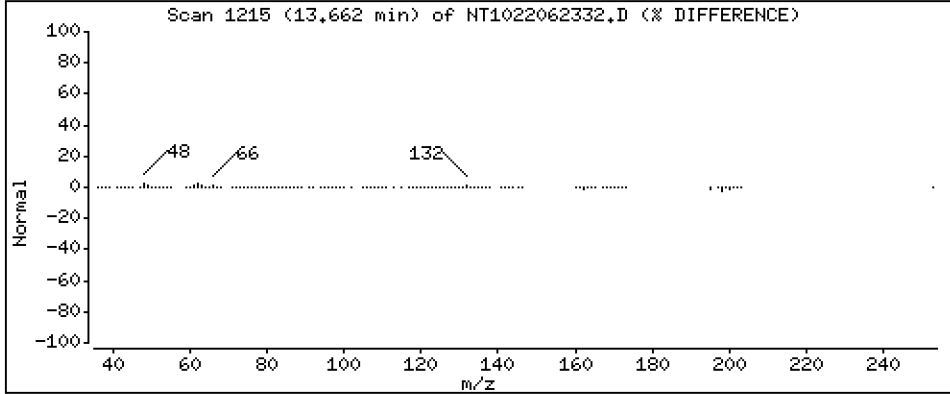
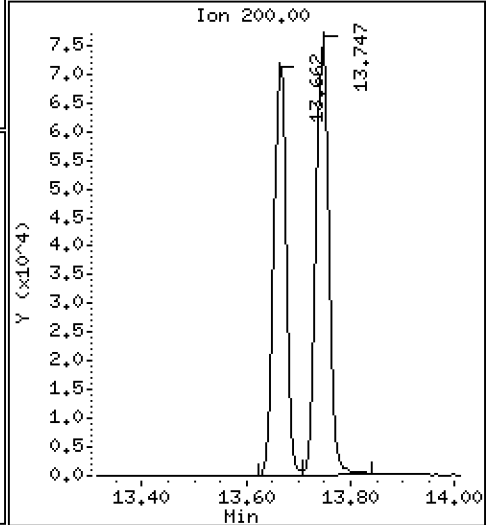
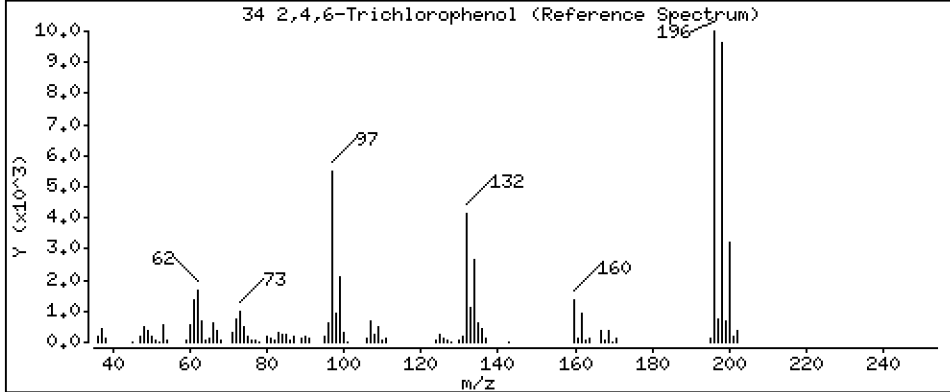
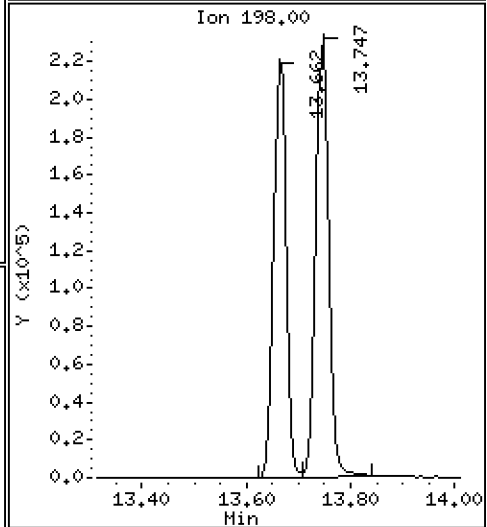
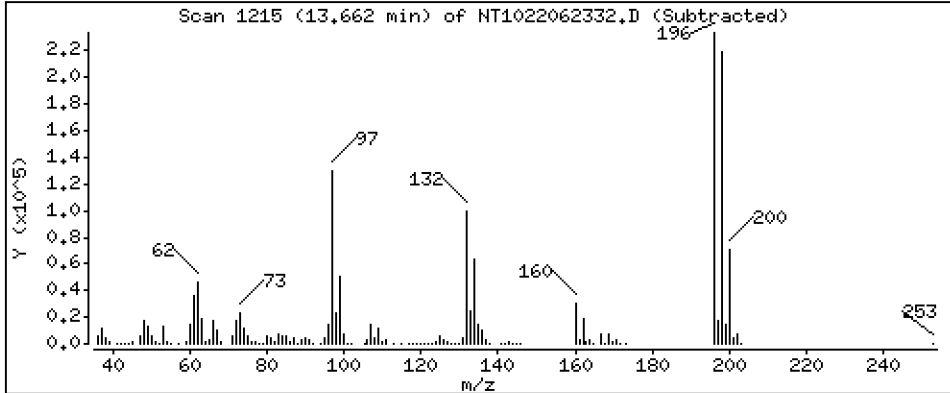
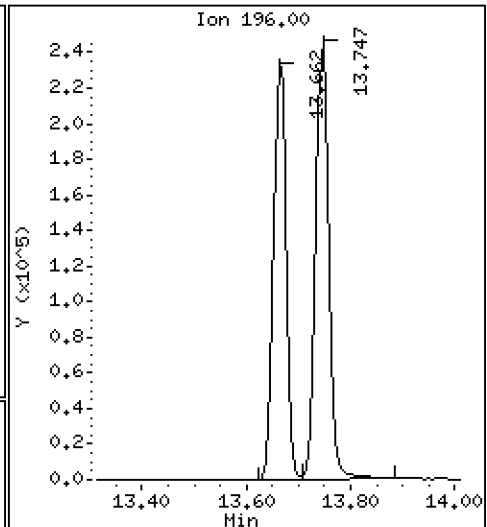
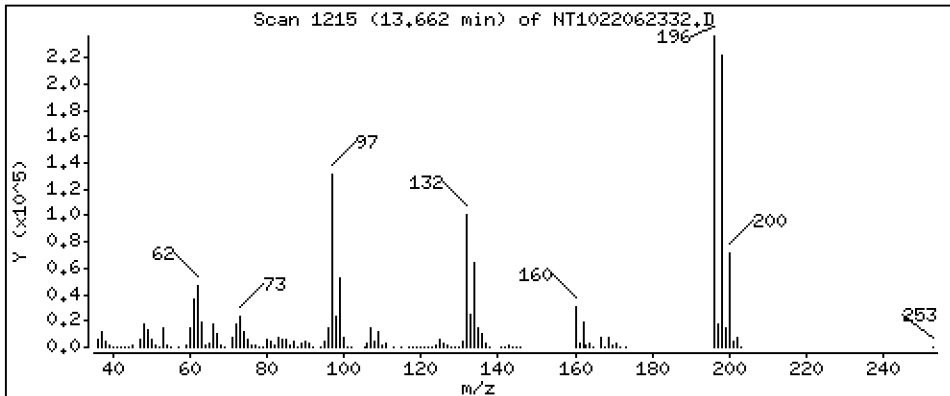
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 11,51 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

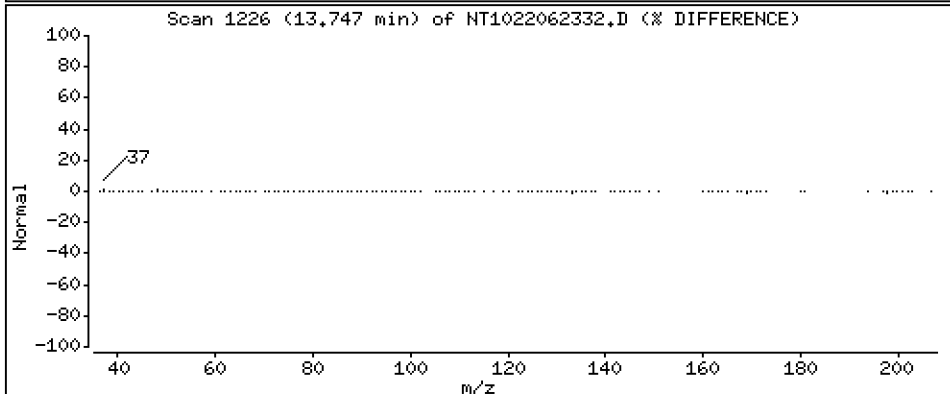
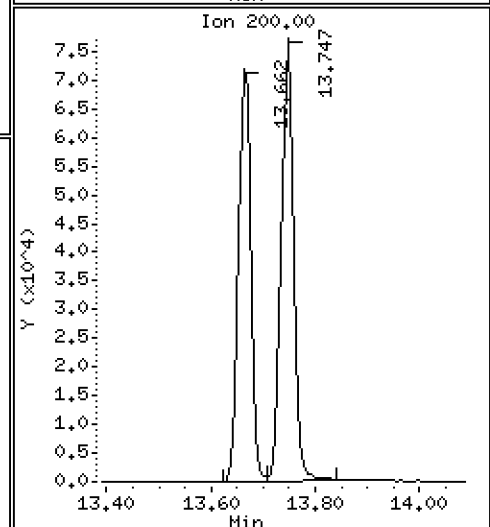
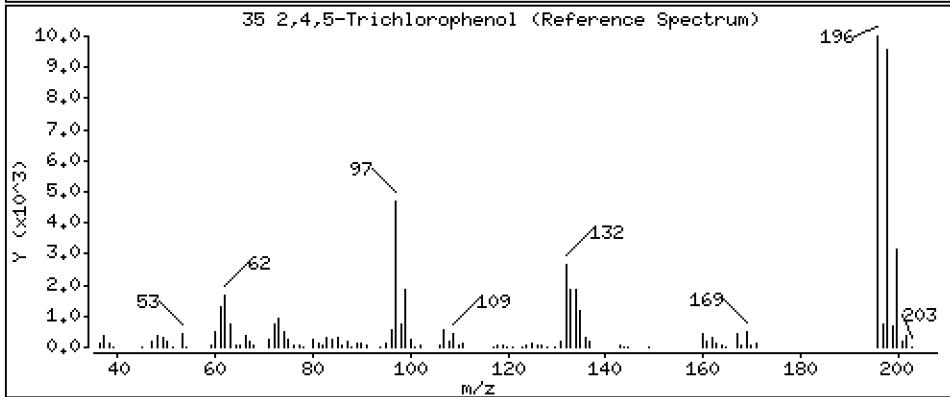
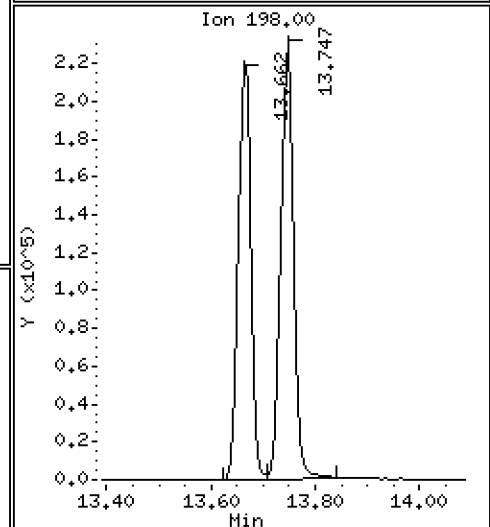
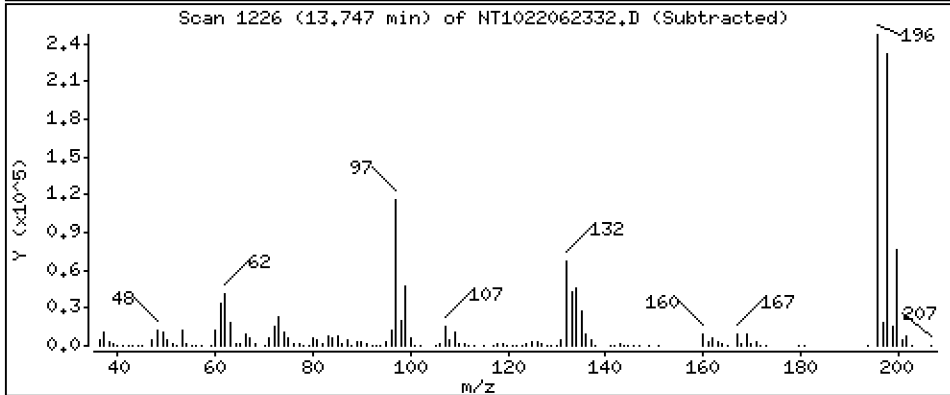
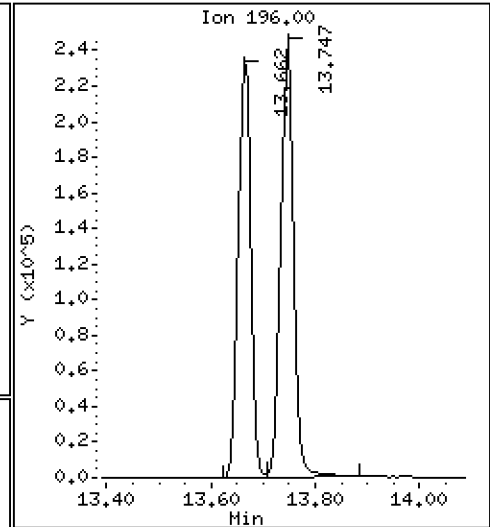
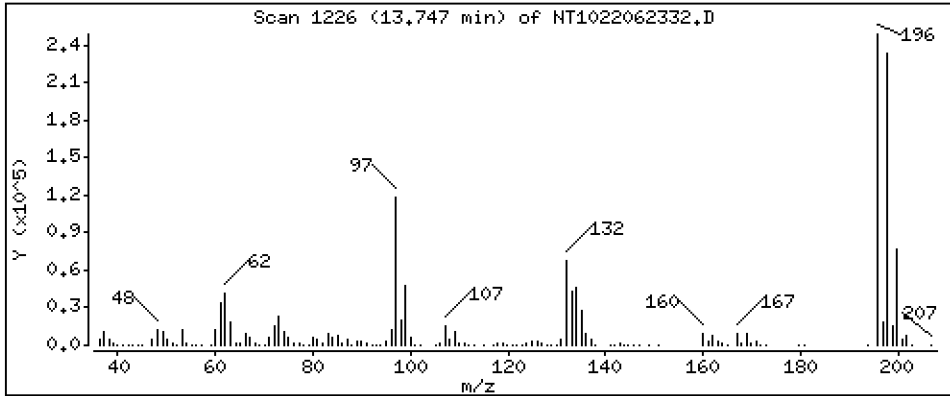
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 10,54 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

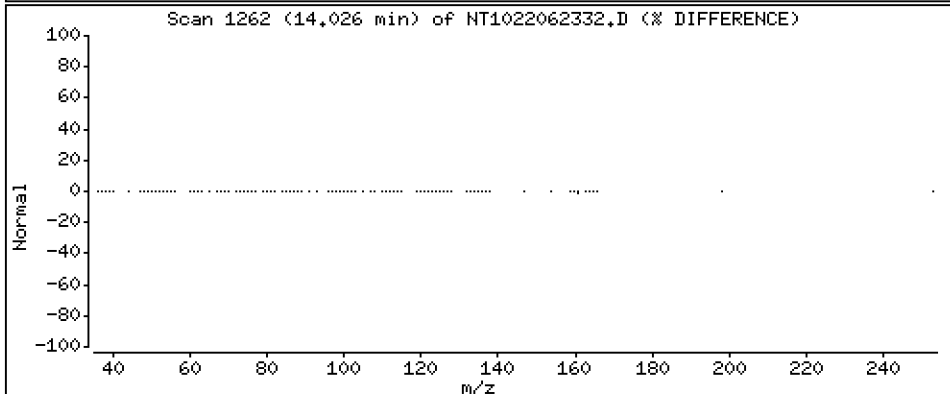
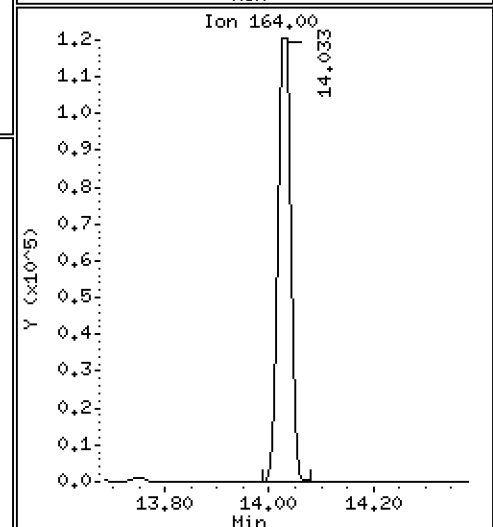
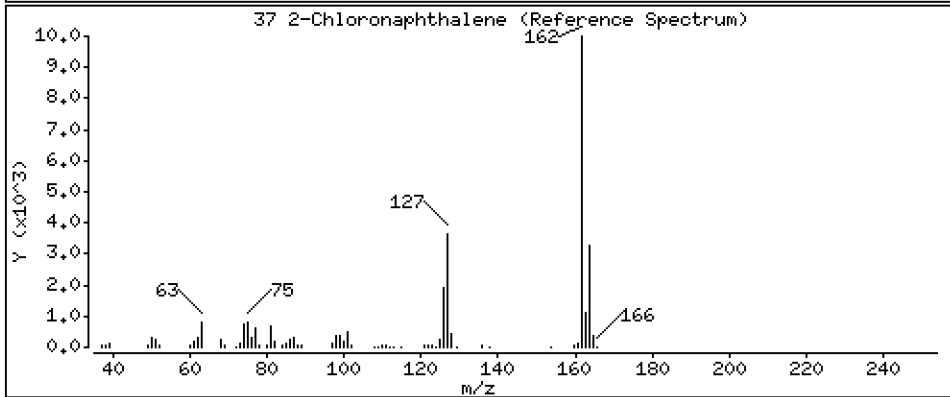
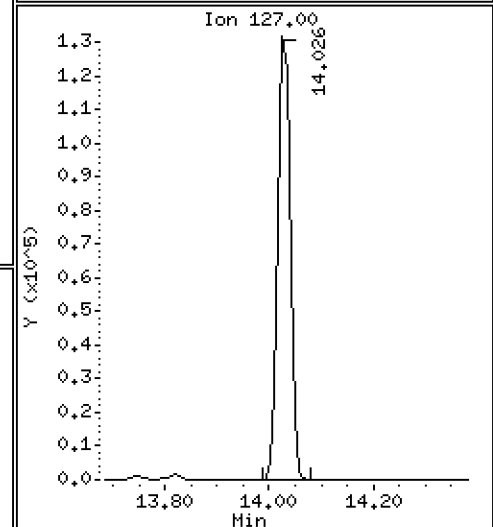
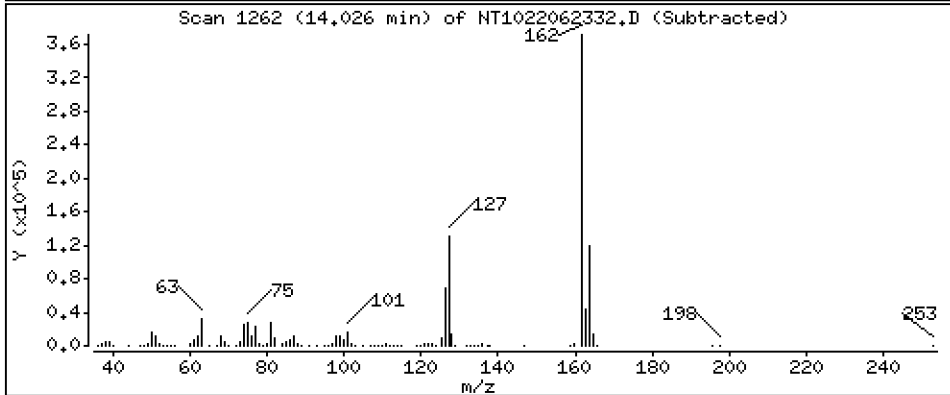
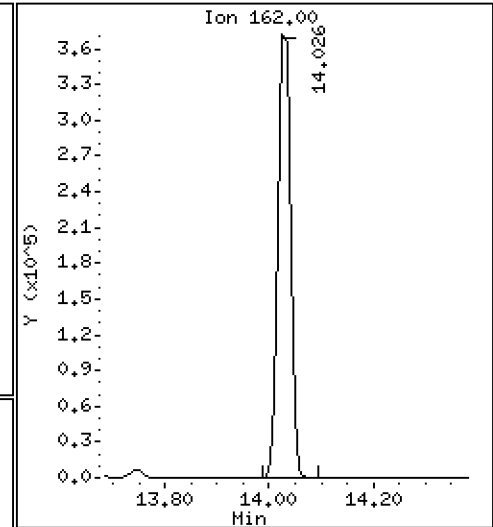
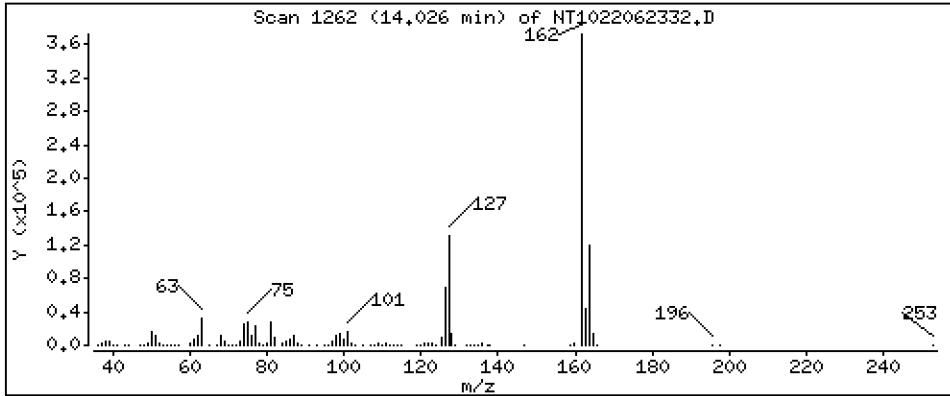
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 5,192 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

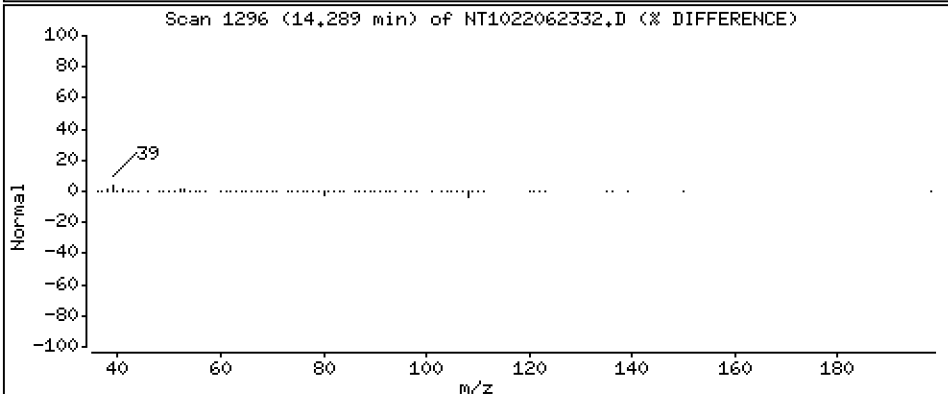
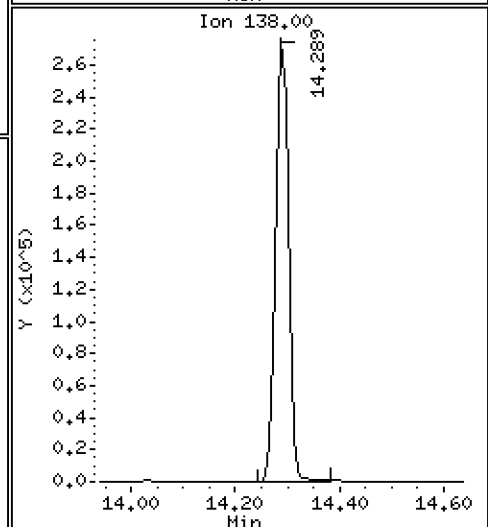
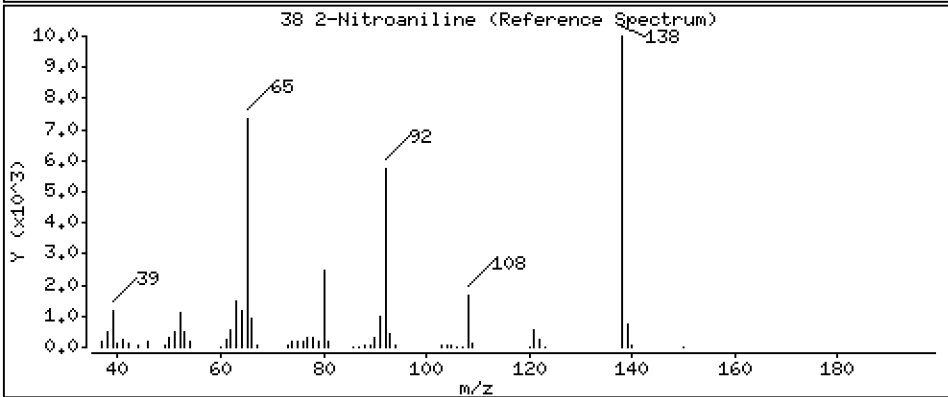
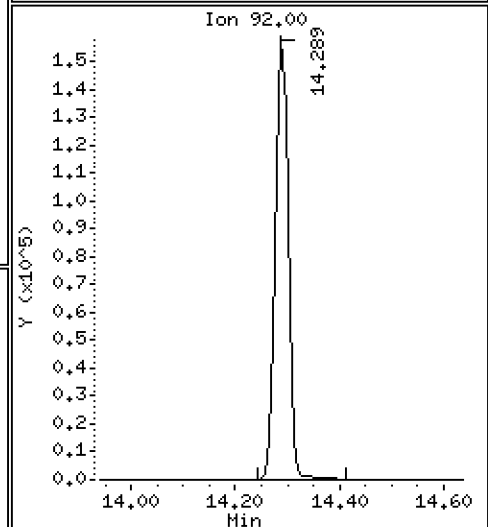
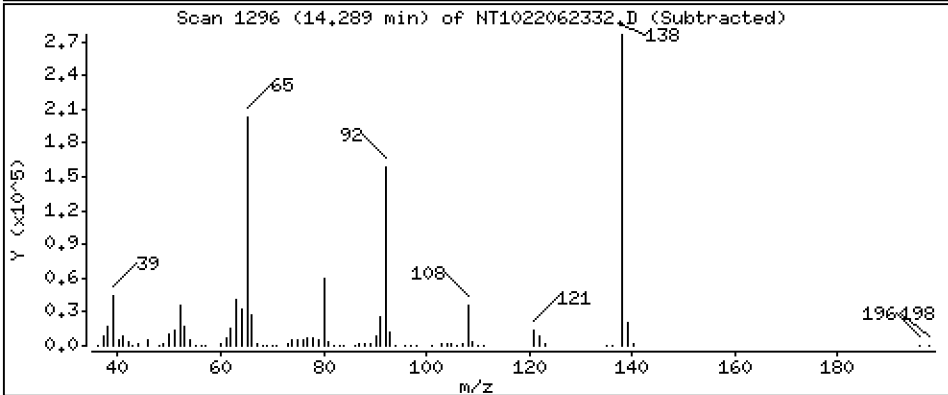
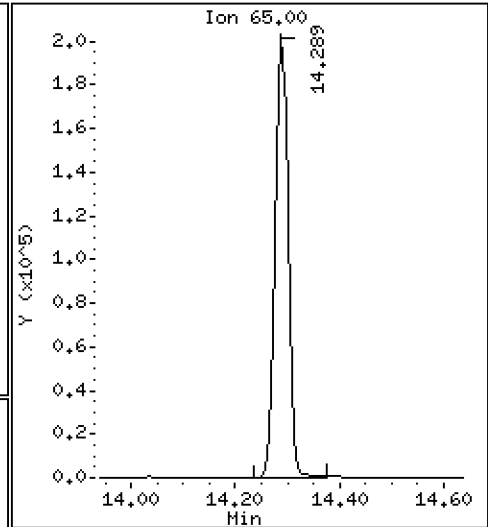
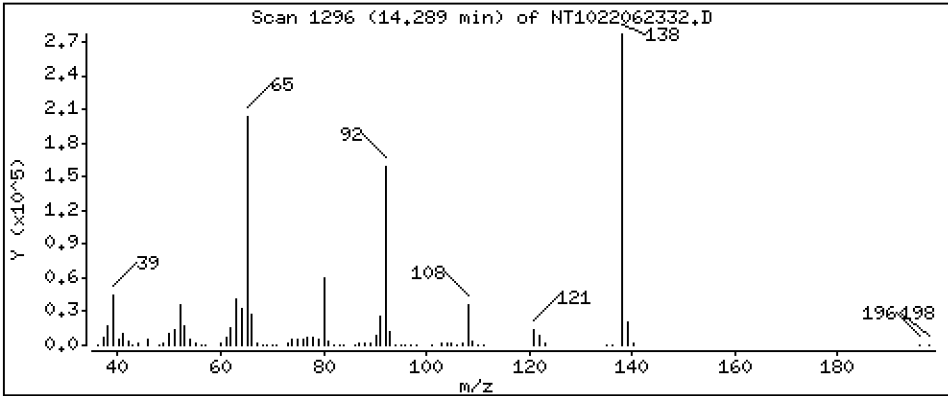
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 10,88 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

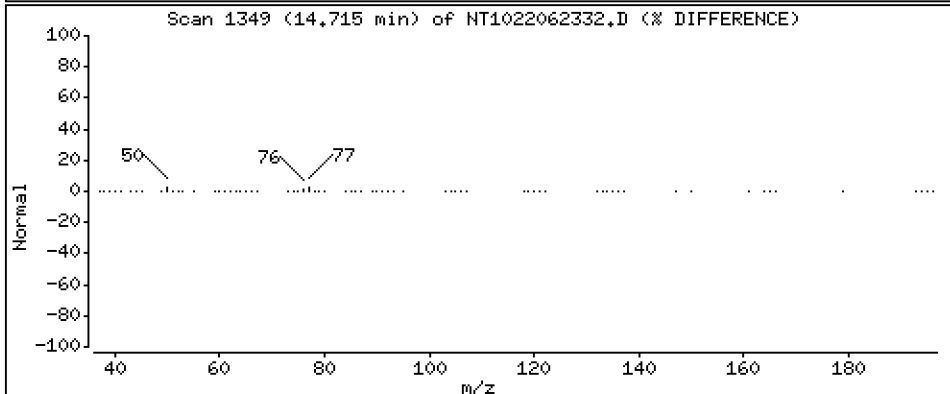
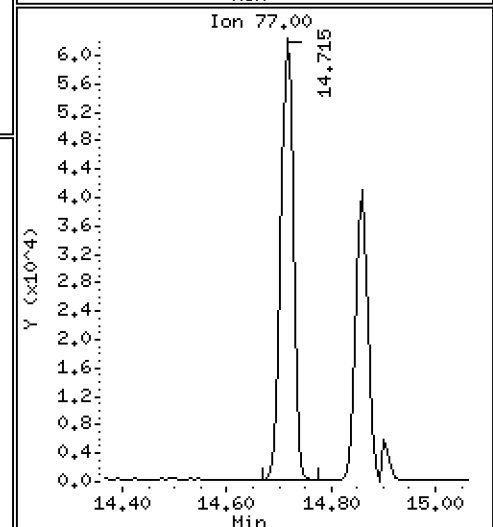
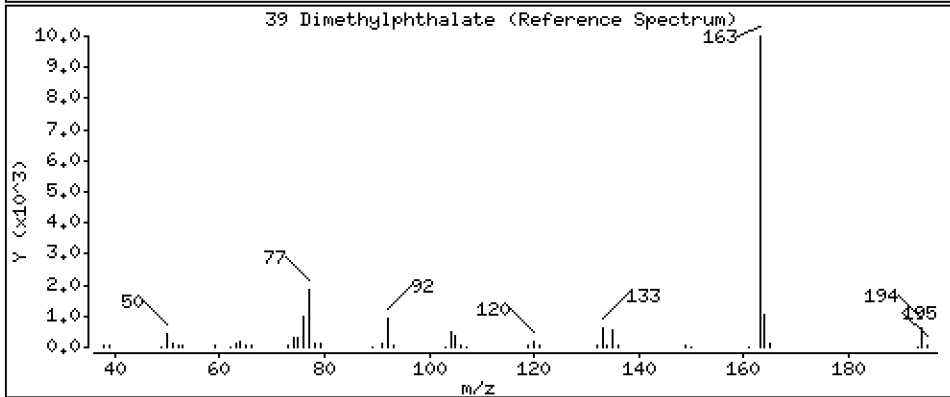
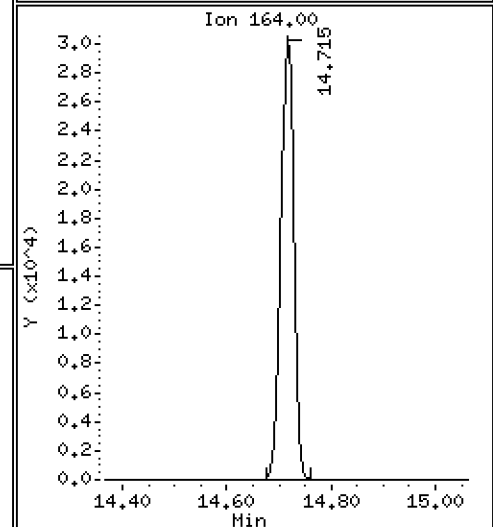
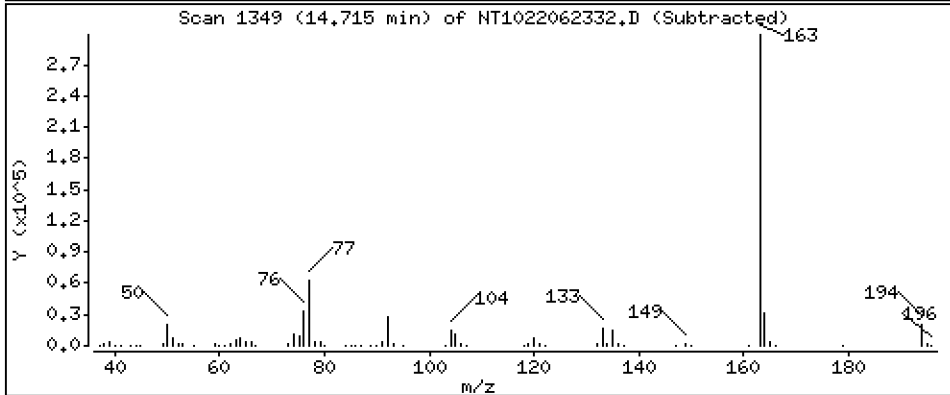
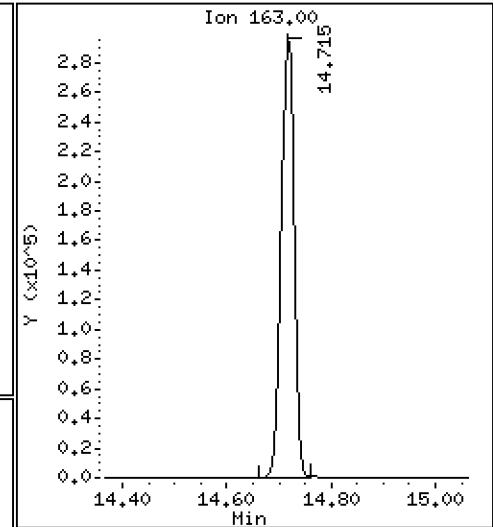
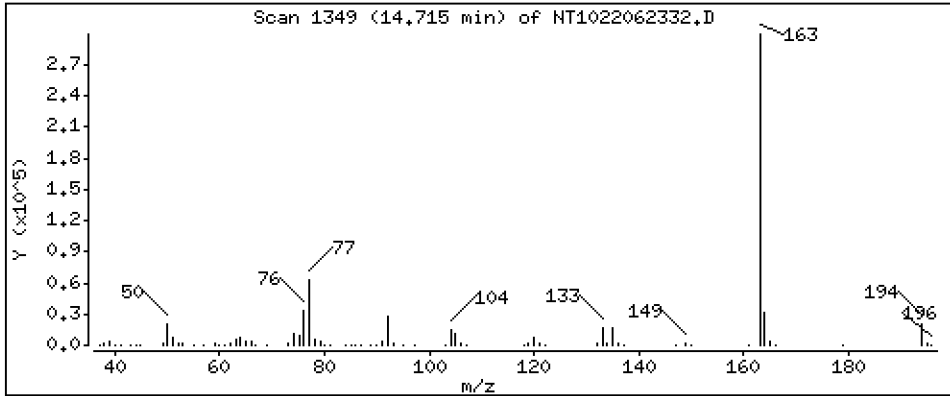
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,855 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

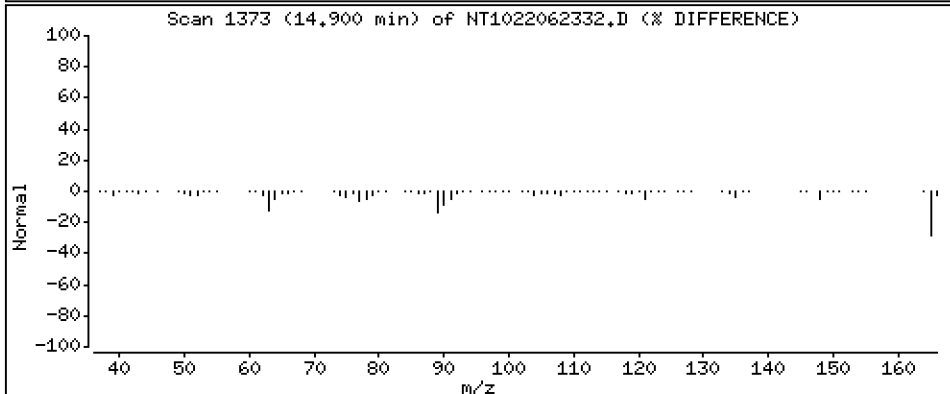
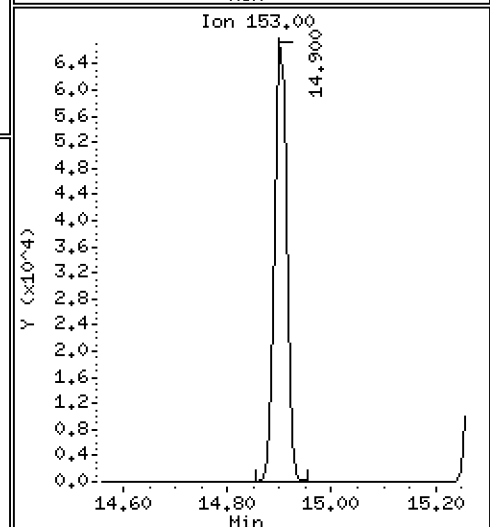
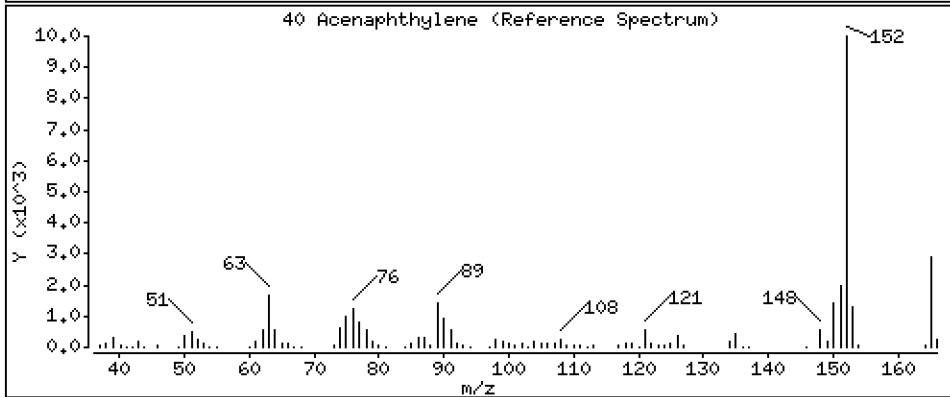
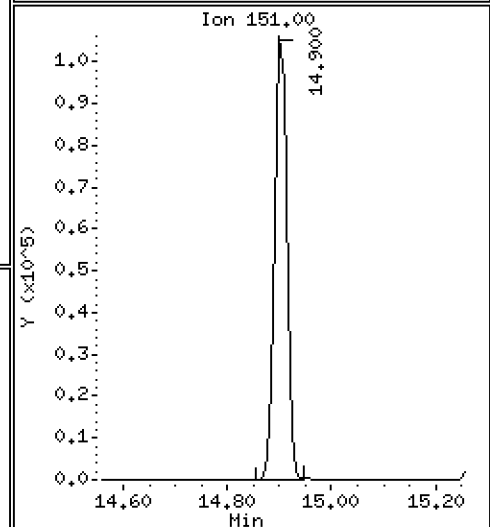
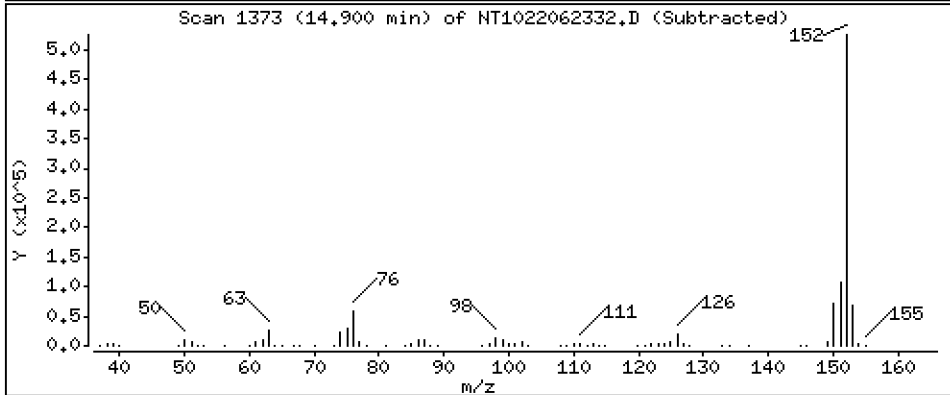
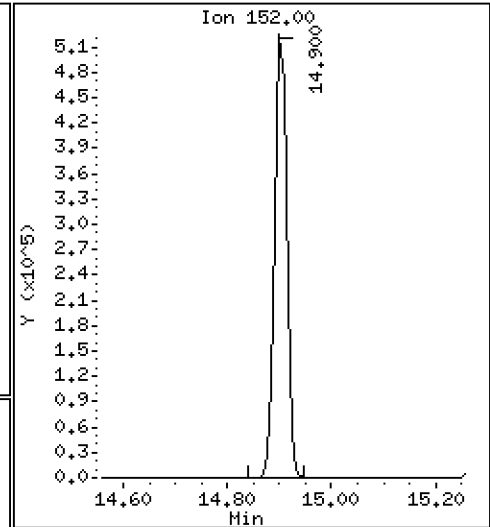
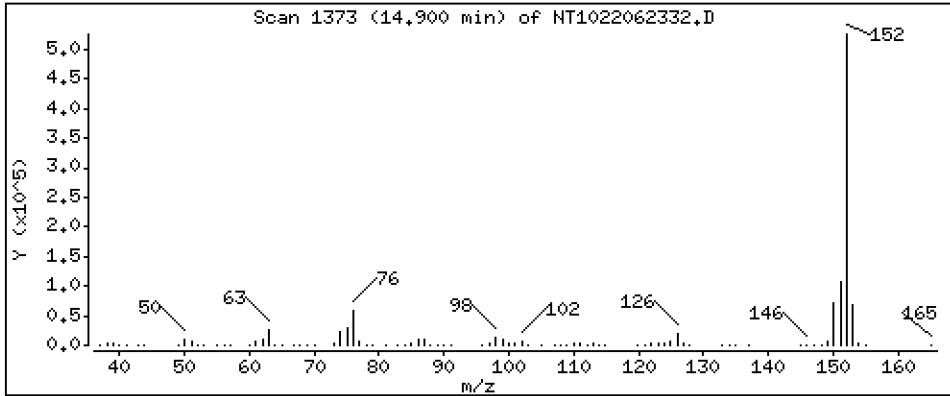
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,781 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

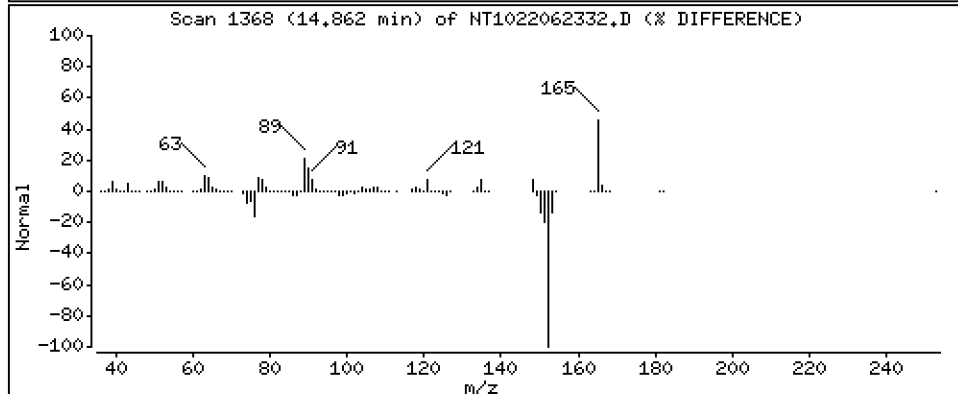
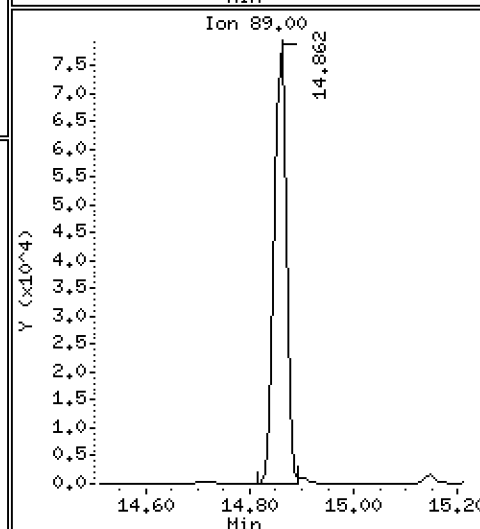
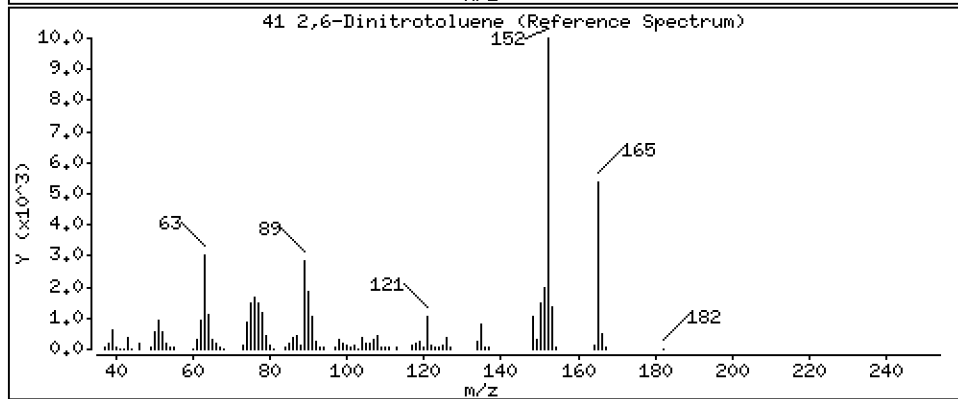
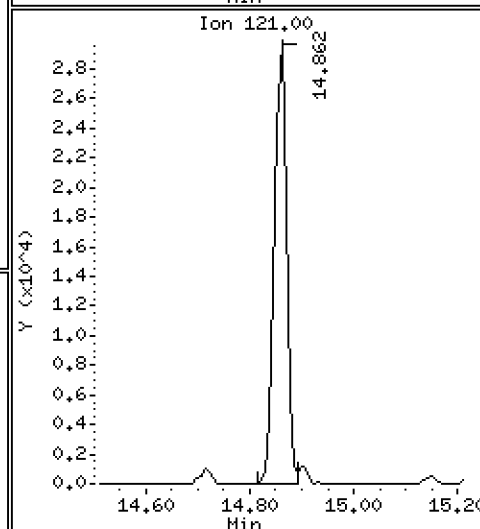
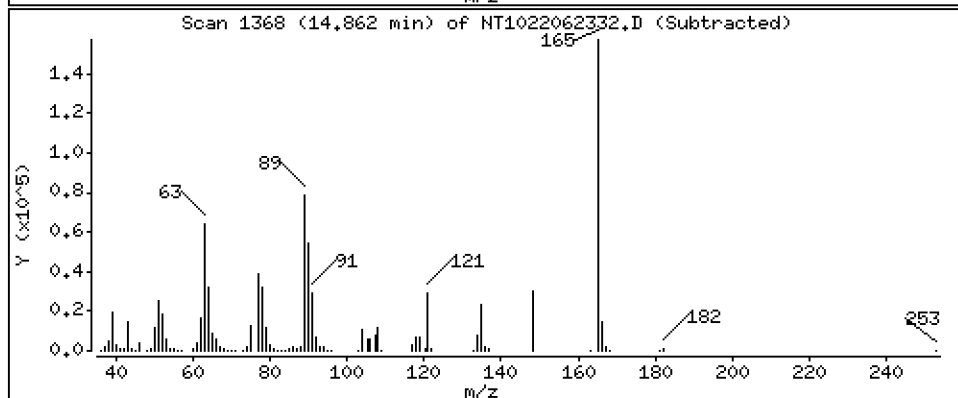
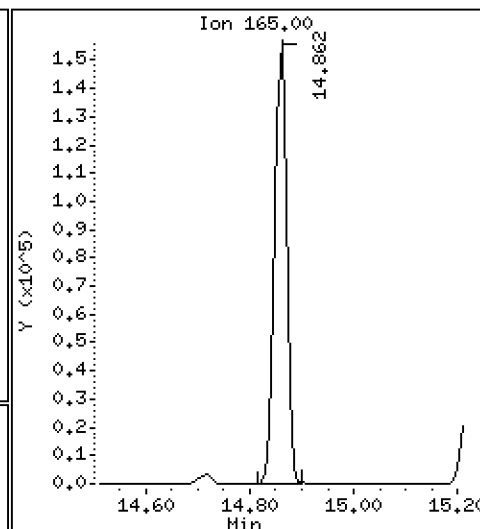
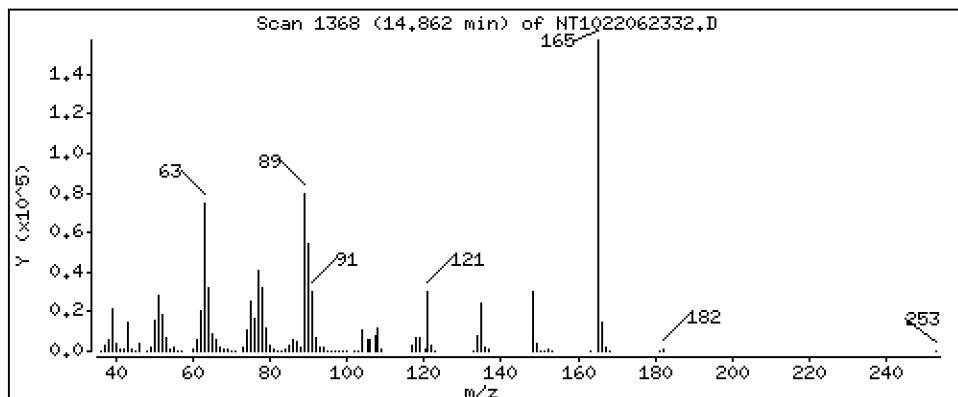
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 10,28 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

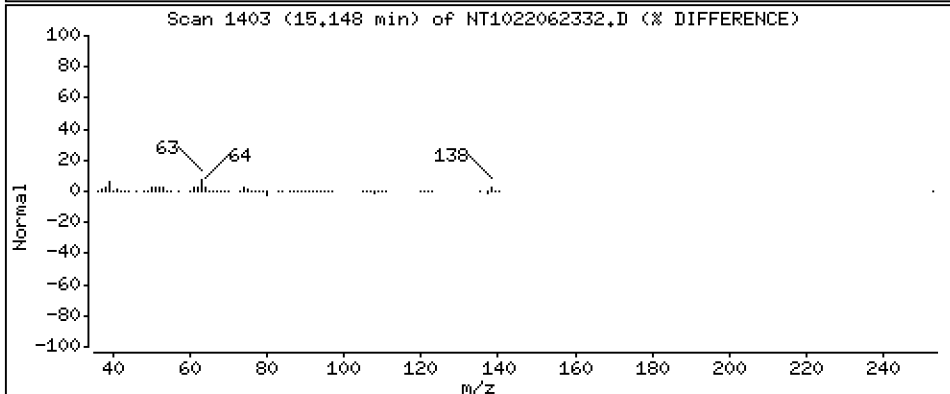
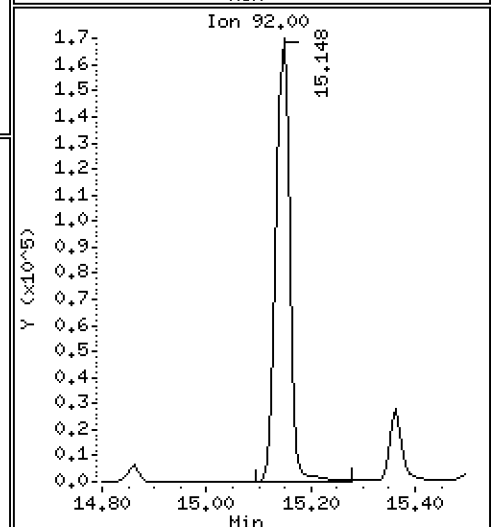
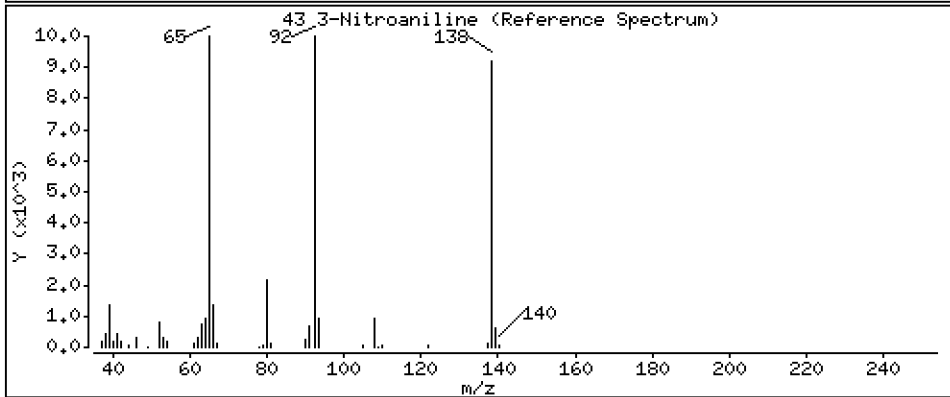
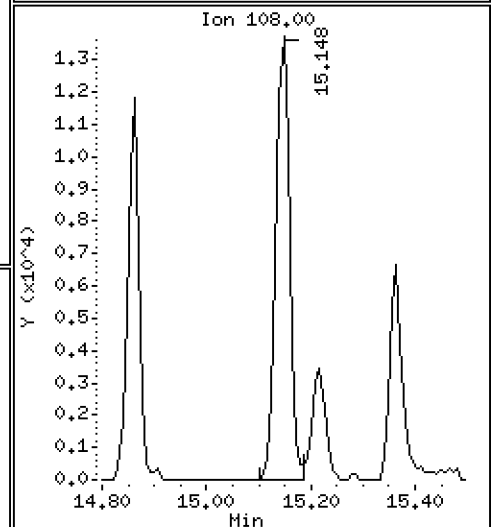
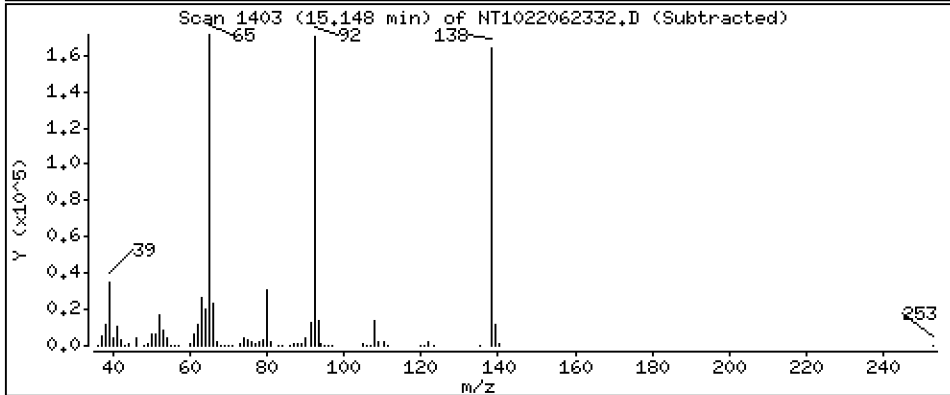
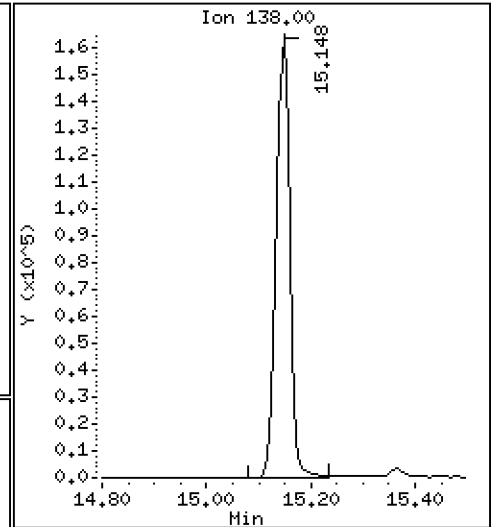
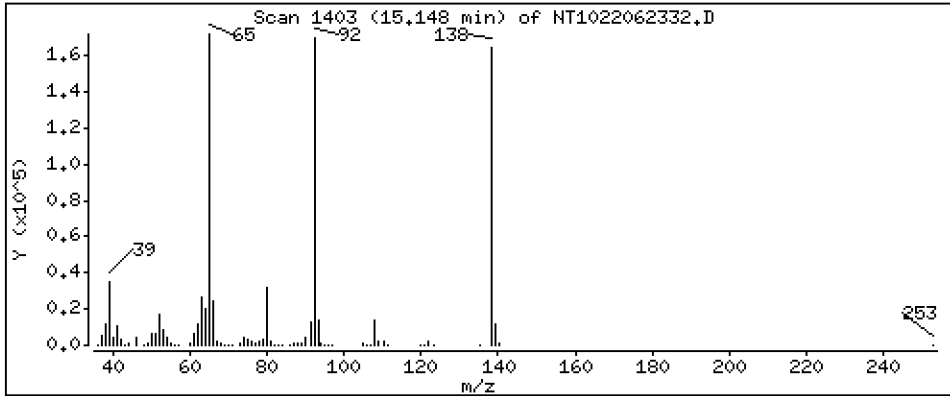
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 10,40 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

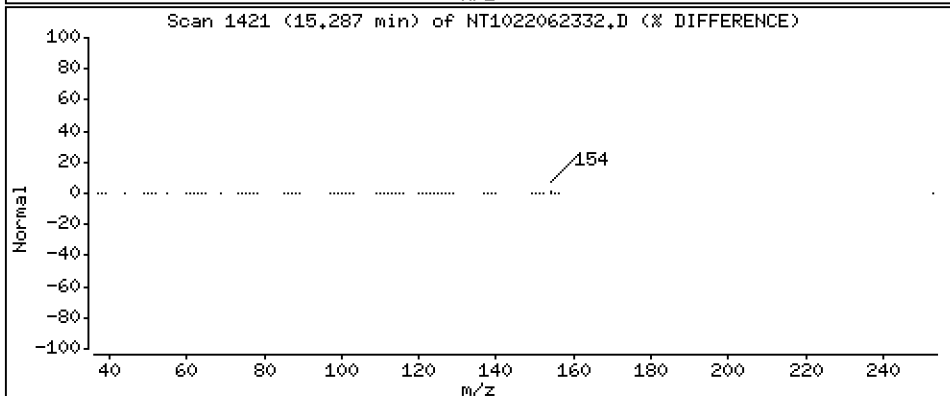
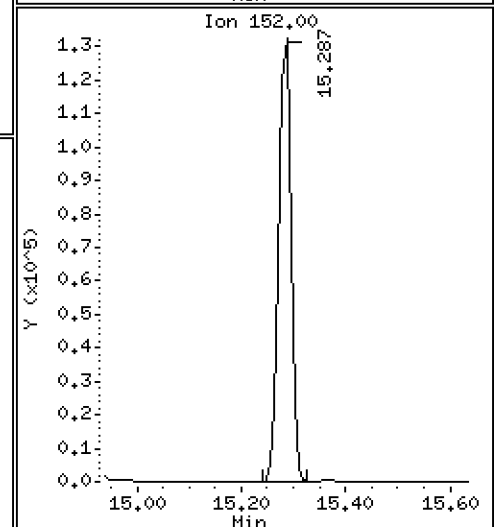
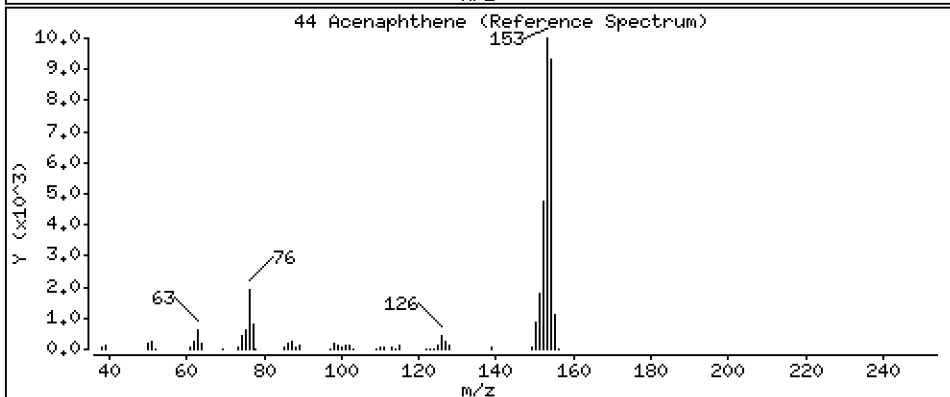
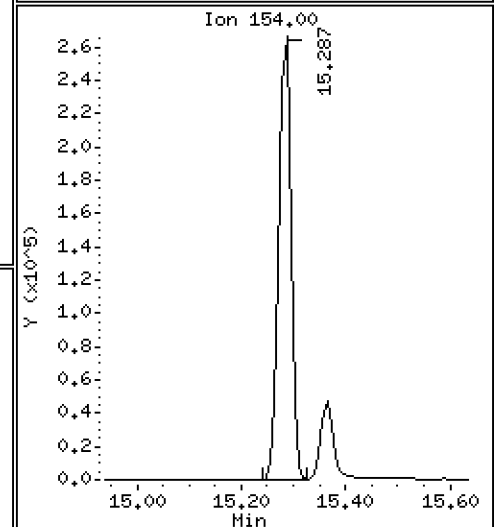
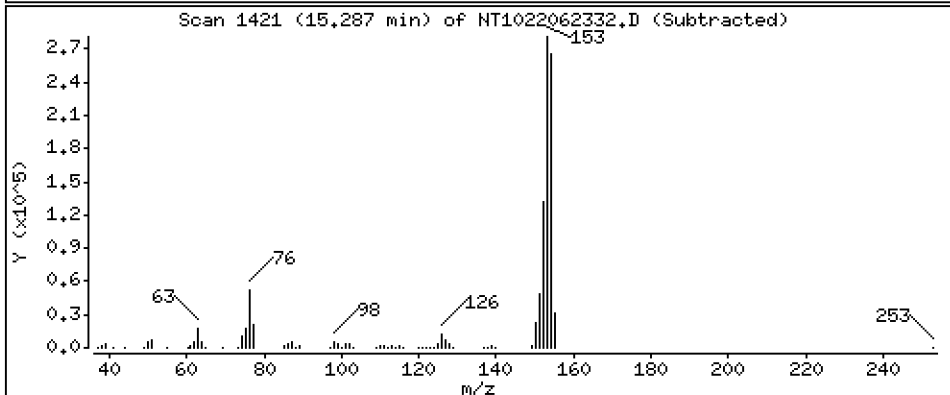
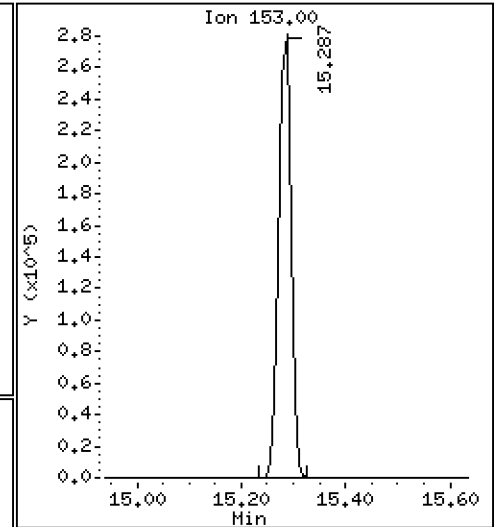
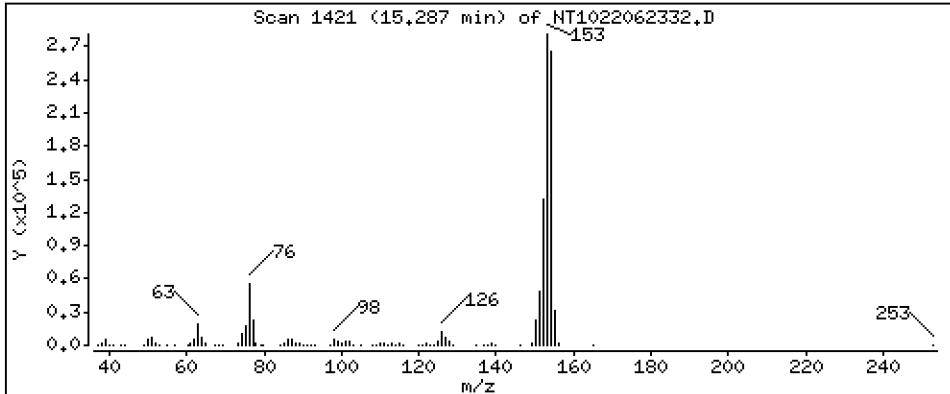
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 5,268 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

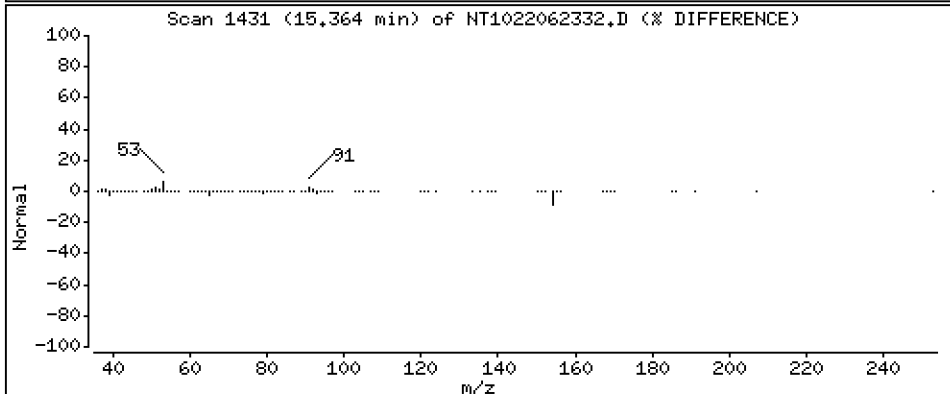
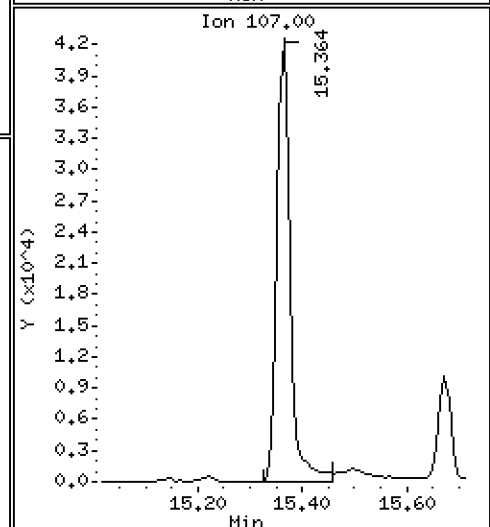
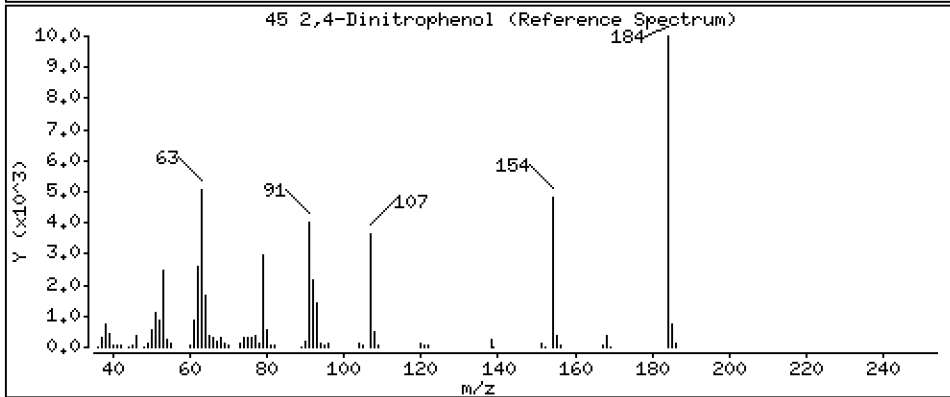
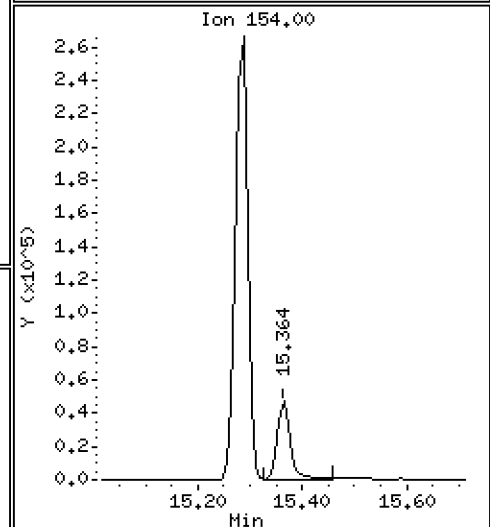
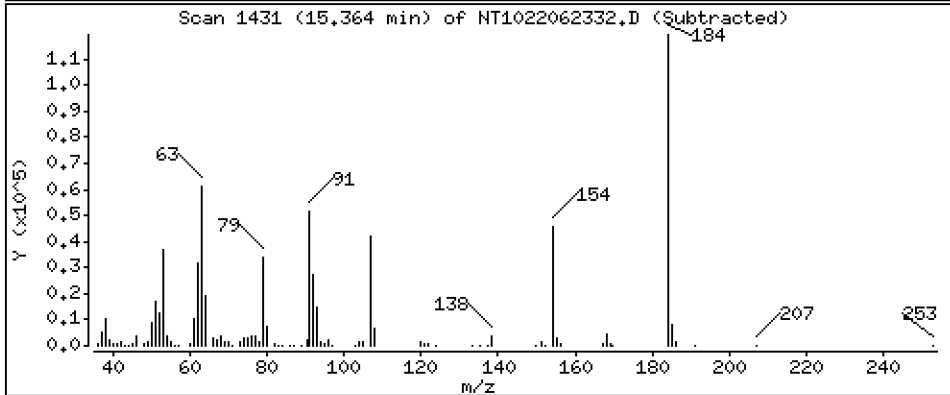
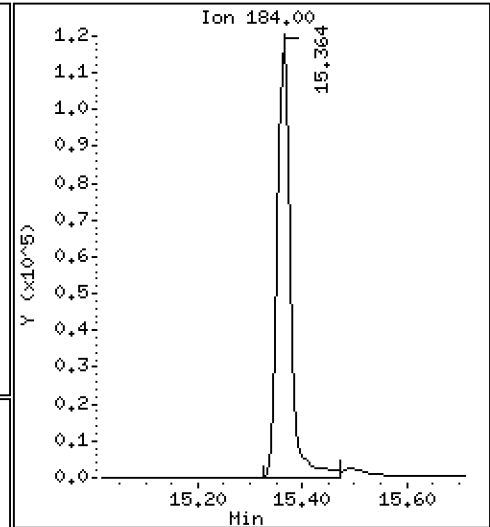
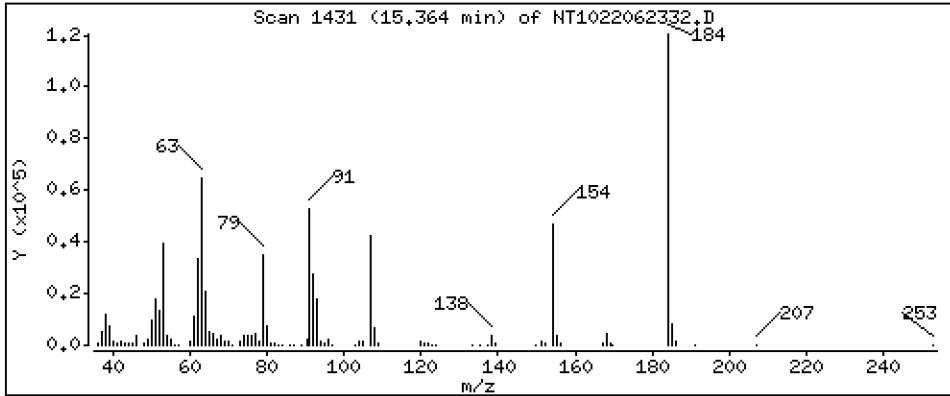
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 18,29 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

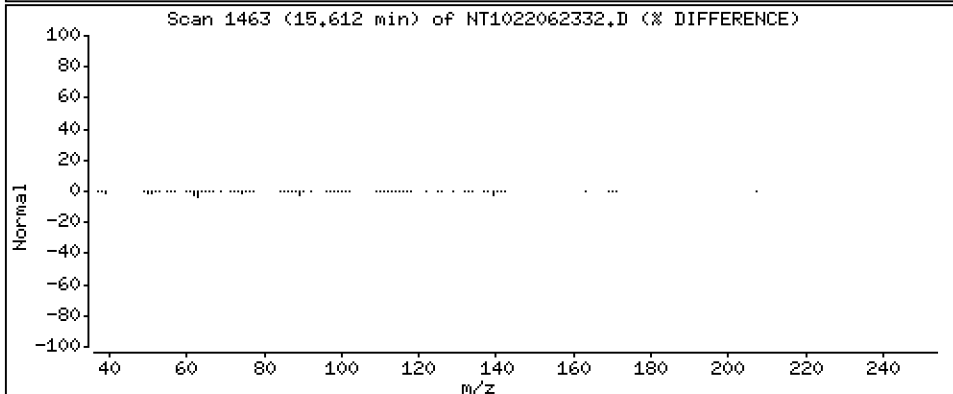
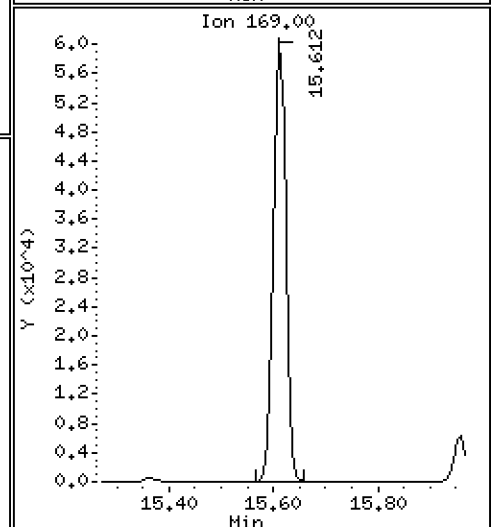
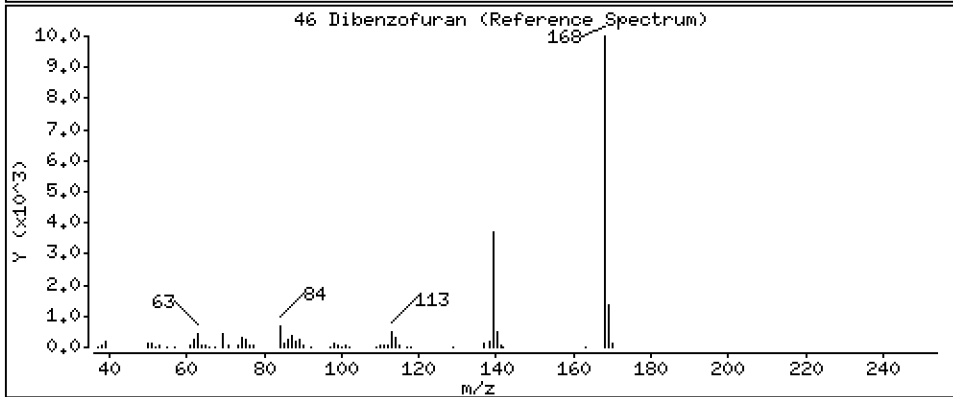
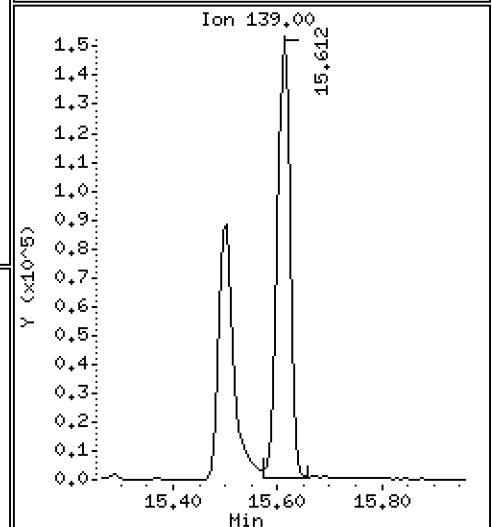
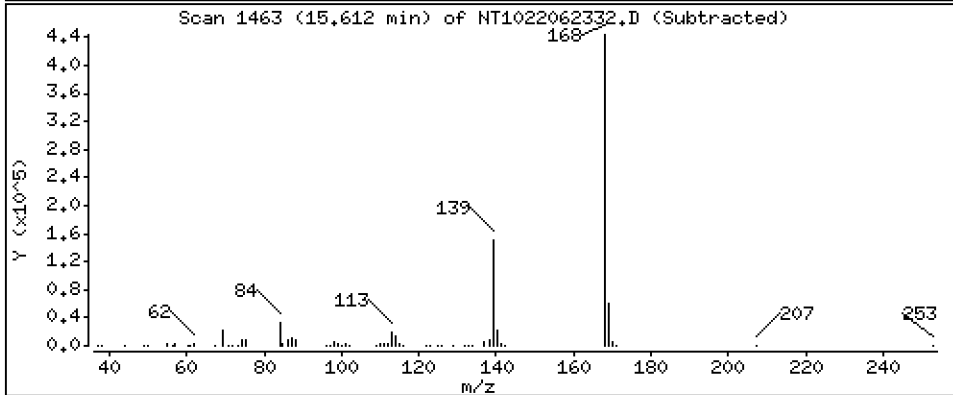
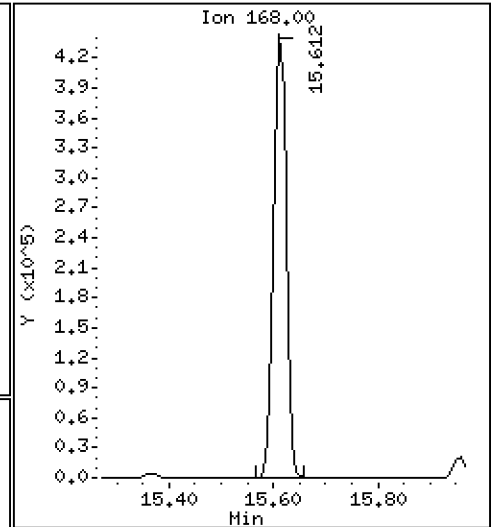
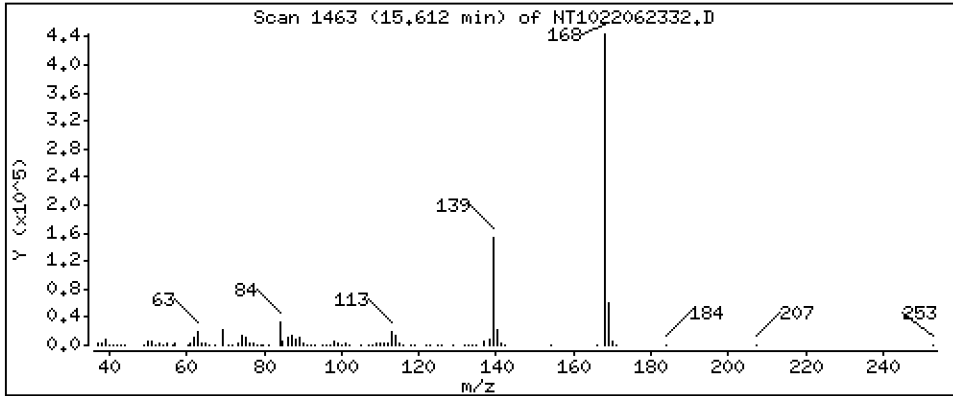
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 5,344 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

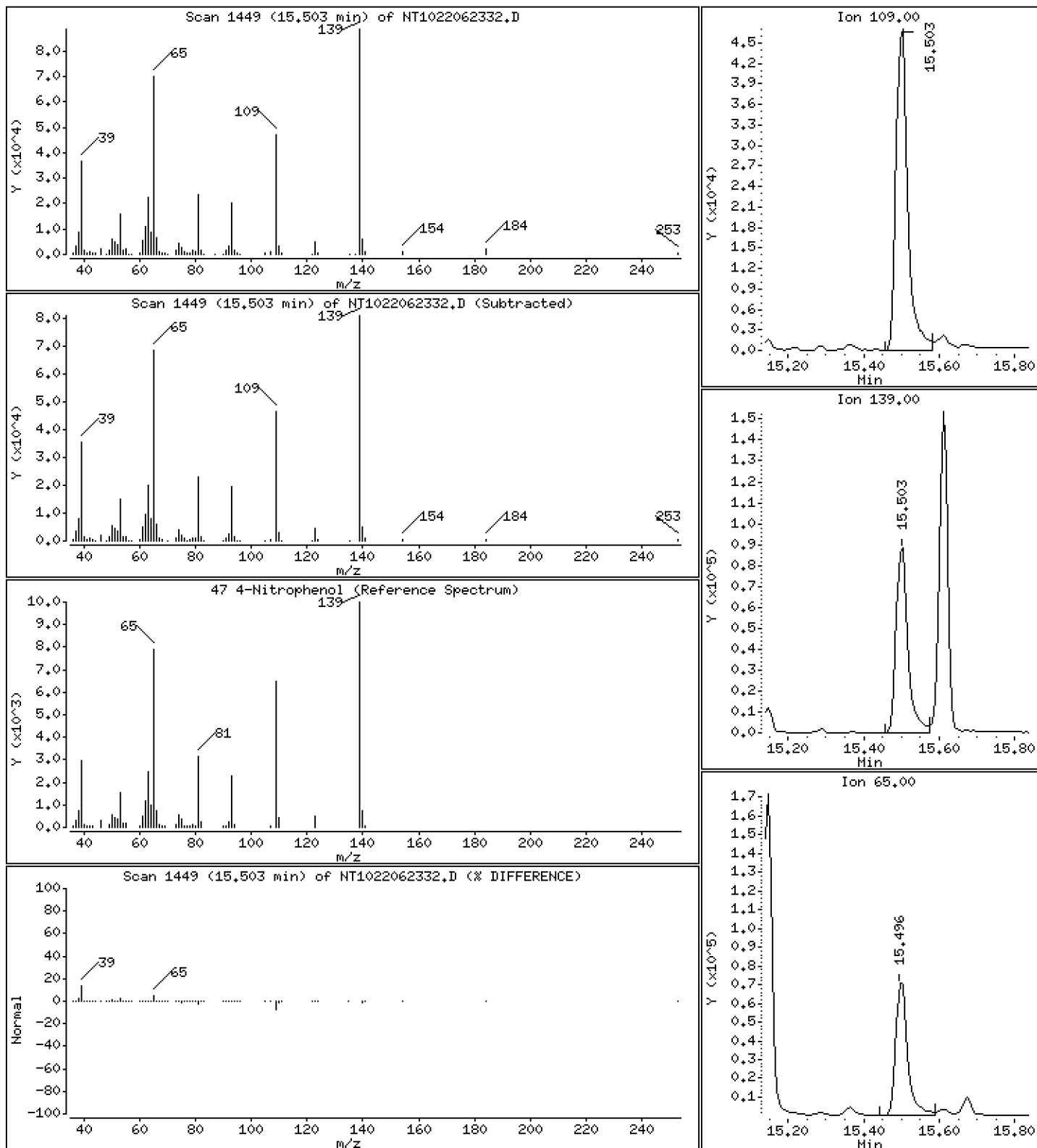
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 10,76 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

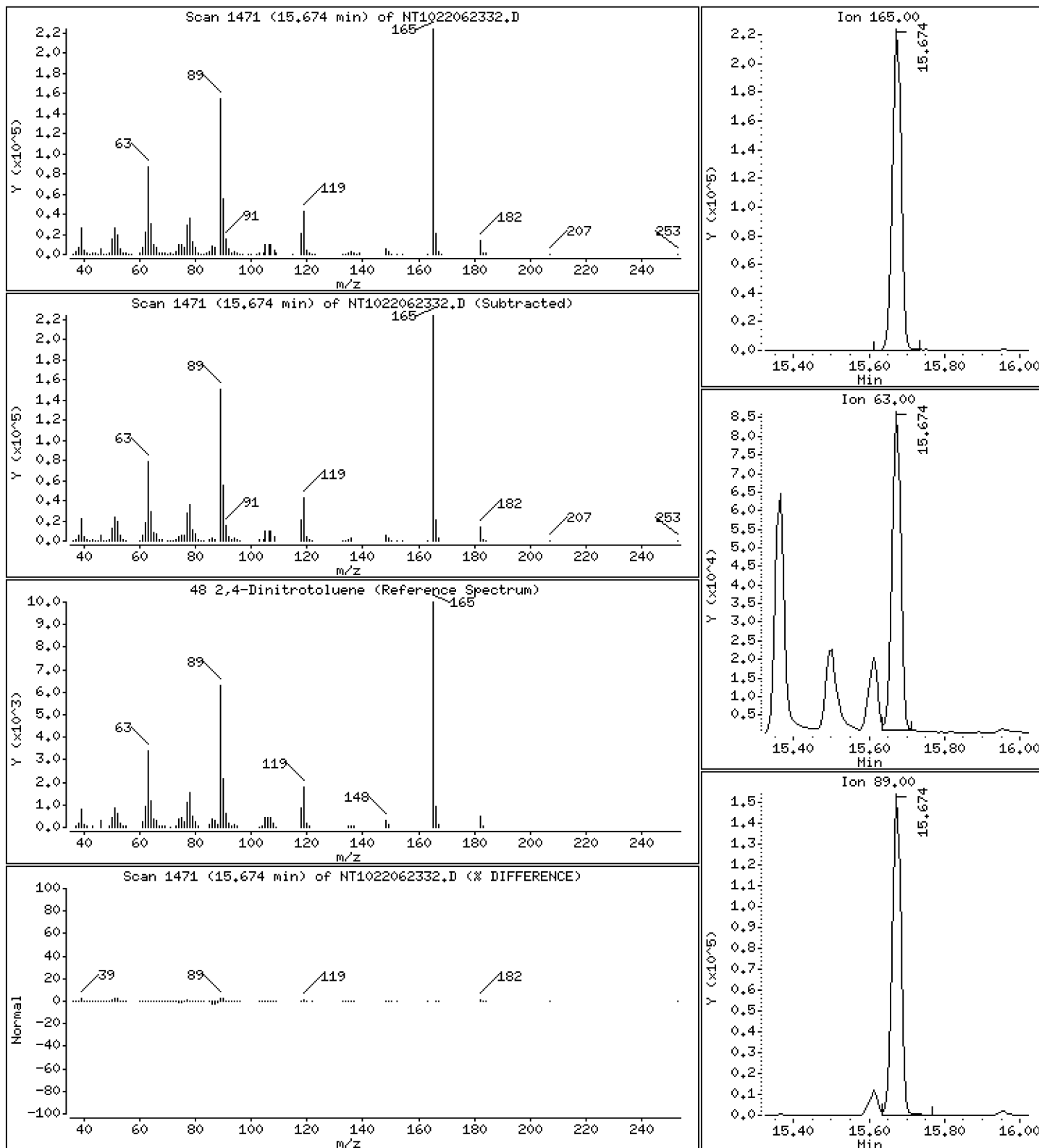
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 10,89 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

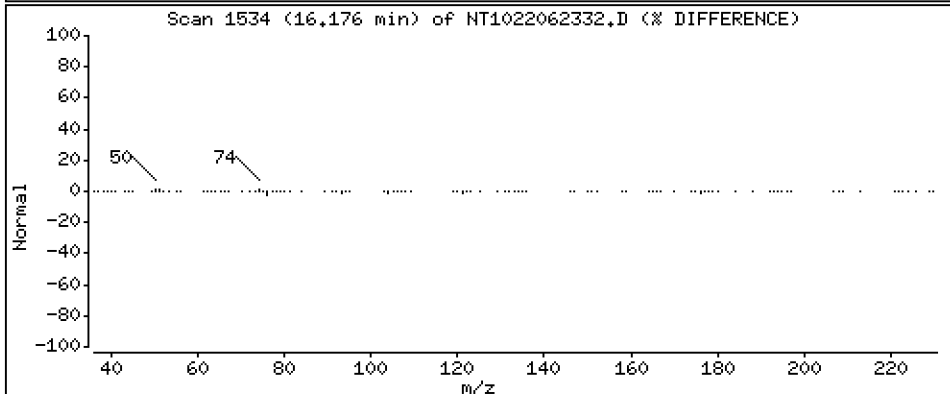
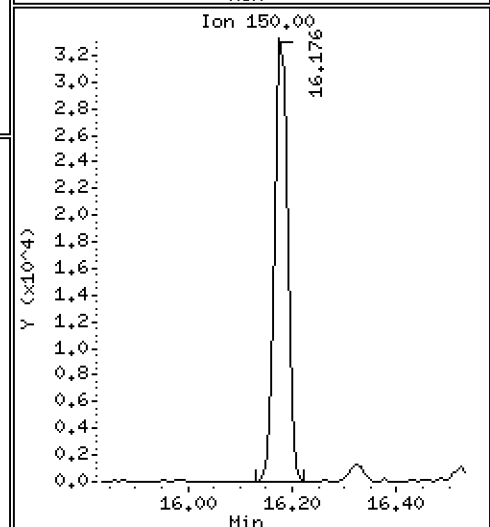
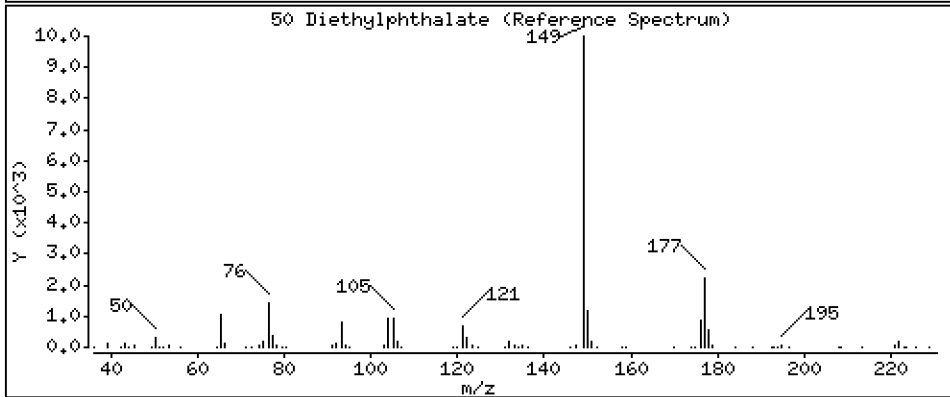
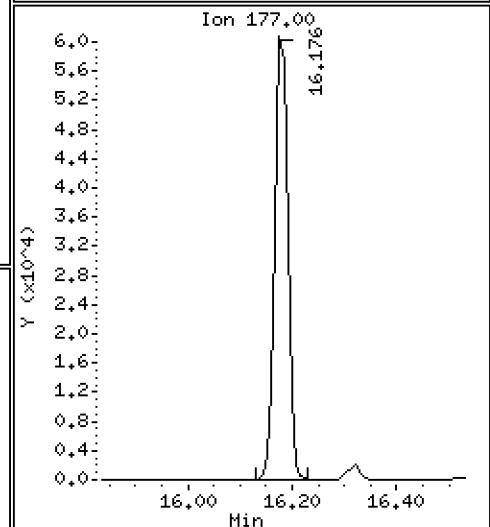
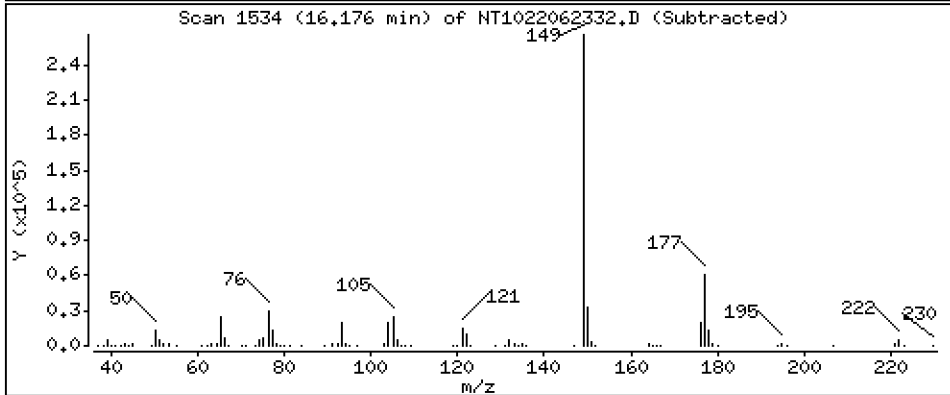
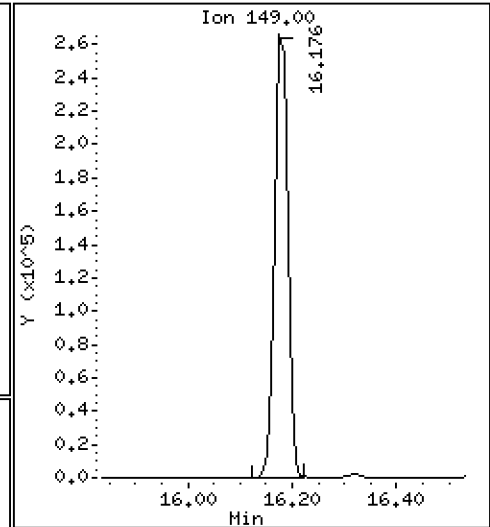
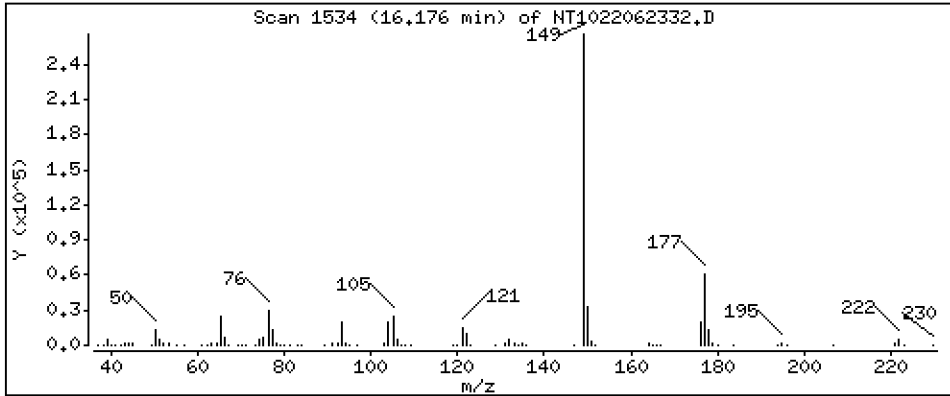
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,164 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

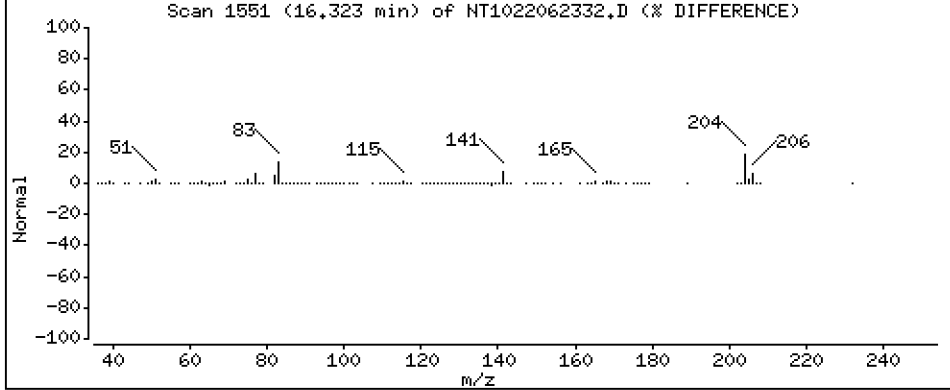
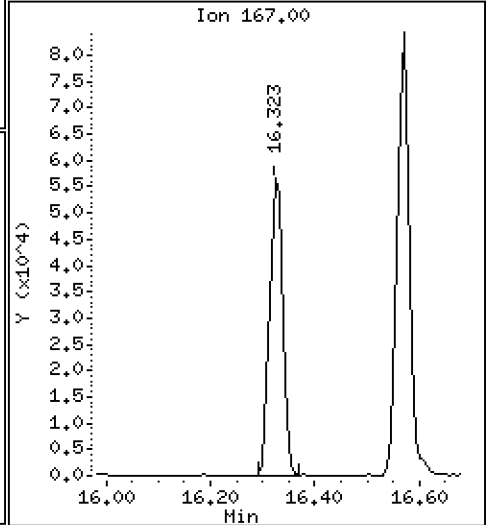
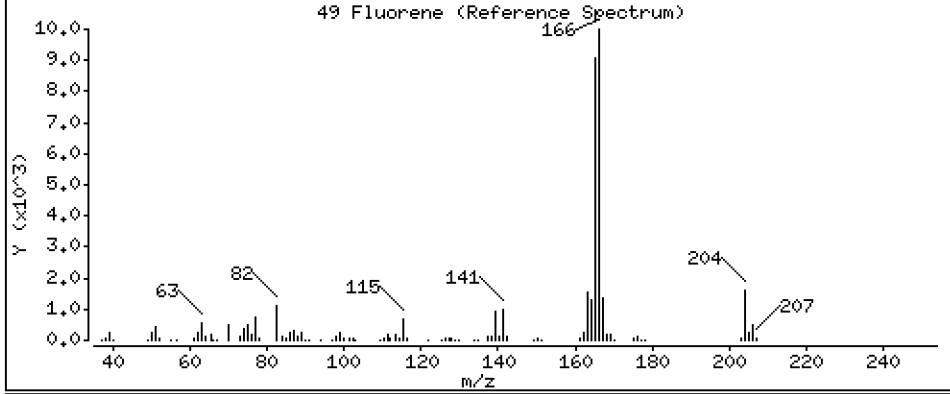
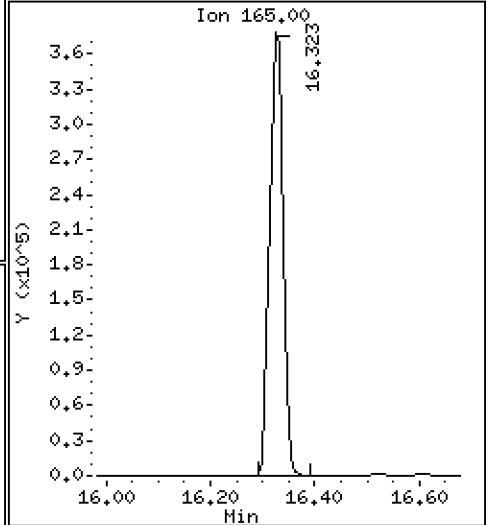
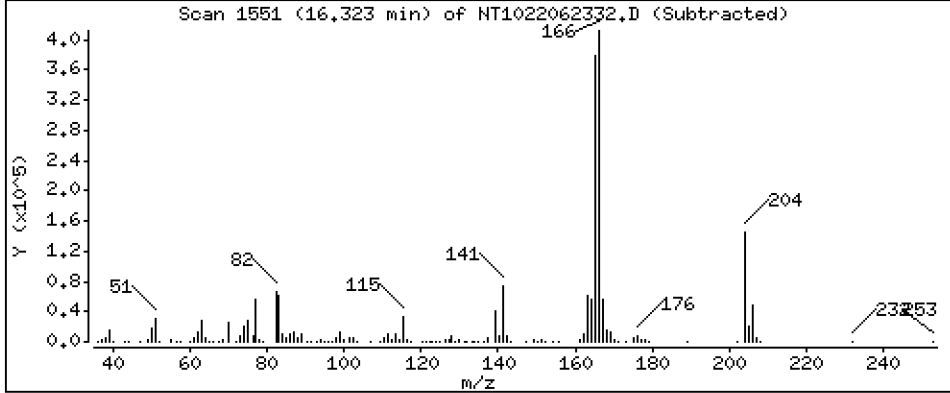
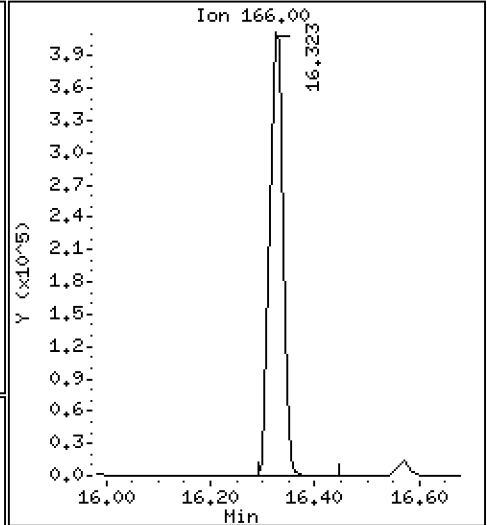
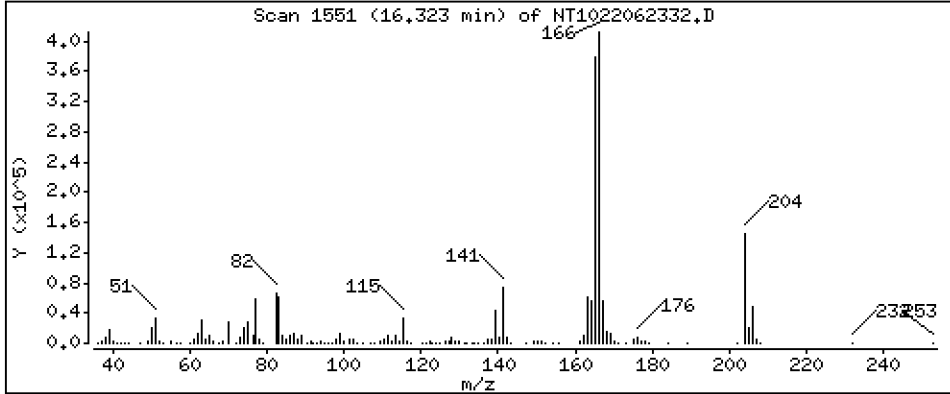
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 3,732 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

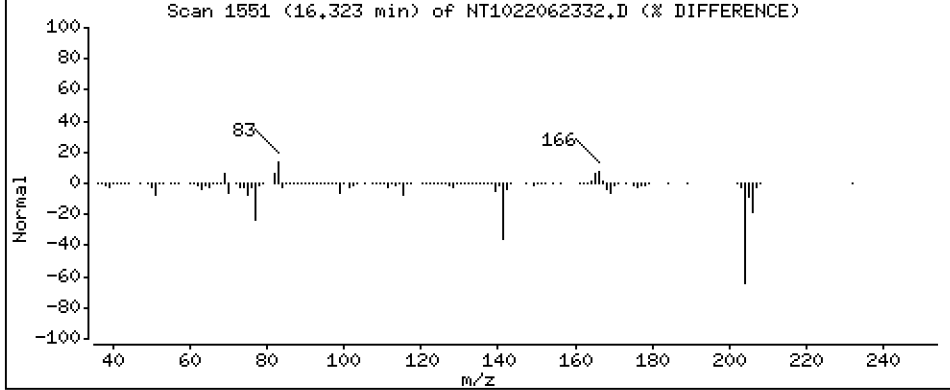
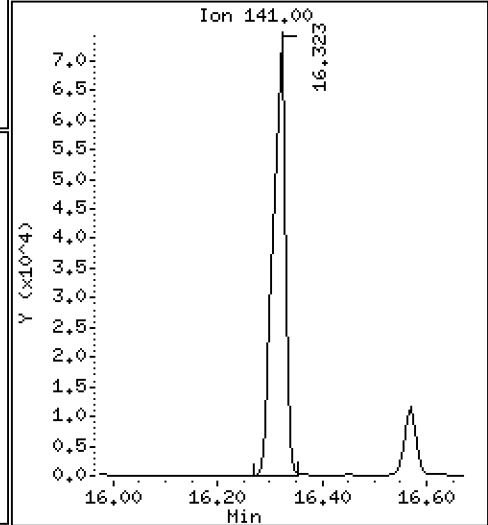
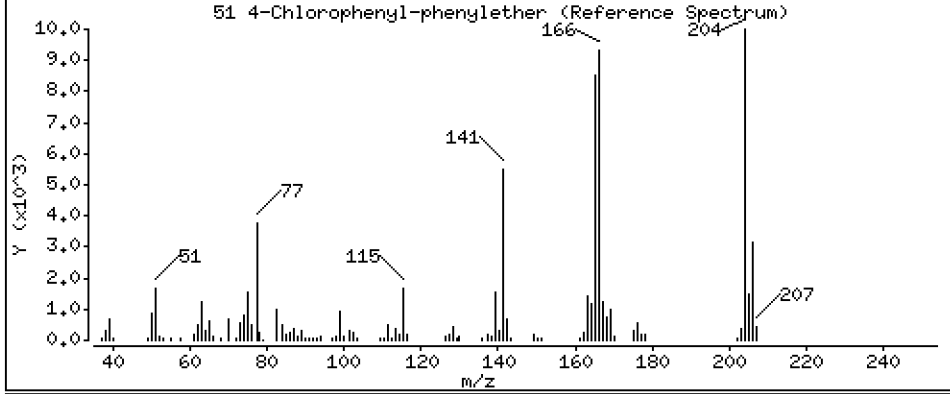
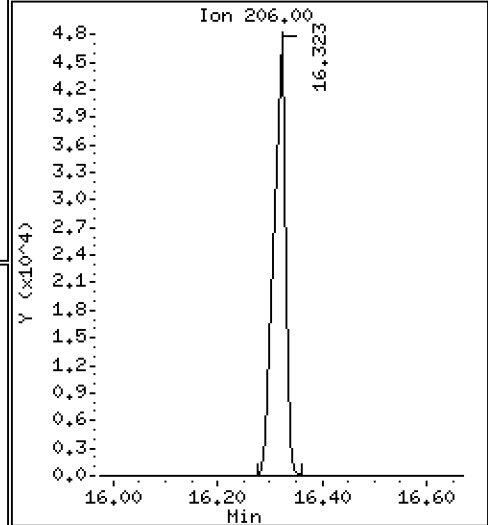
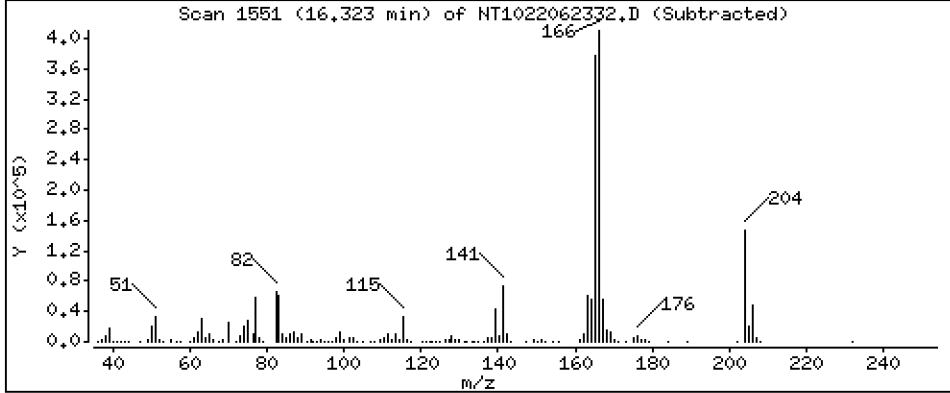
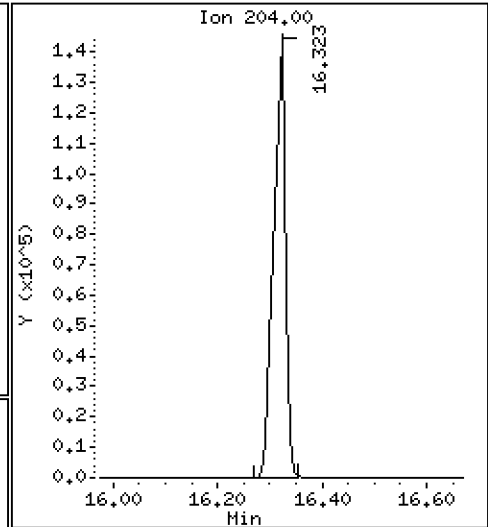
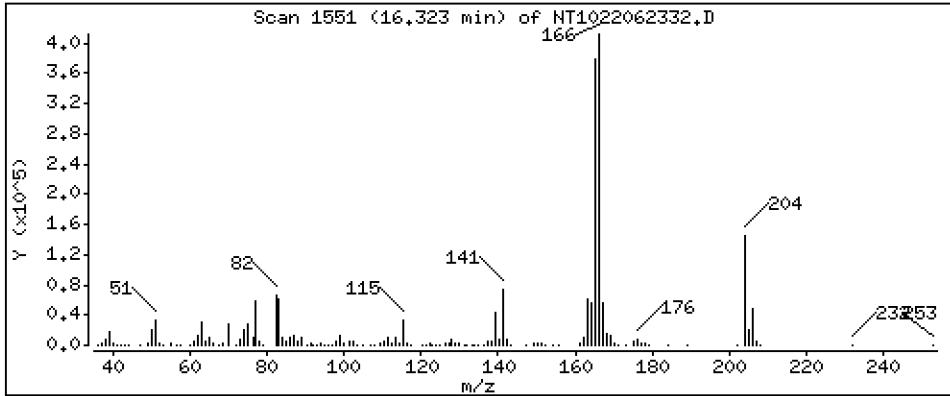
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 2,273 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

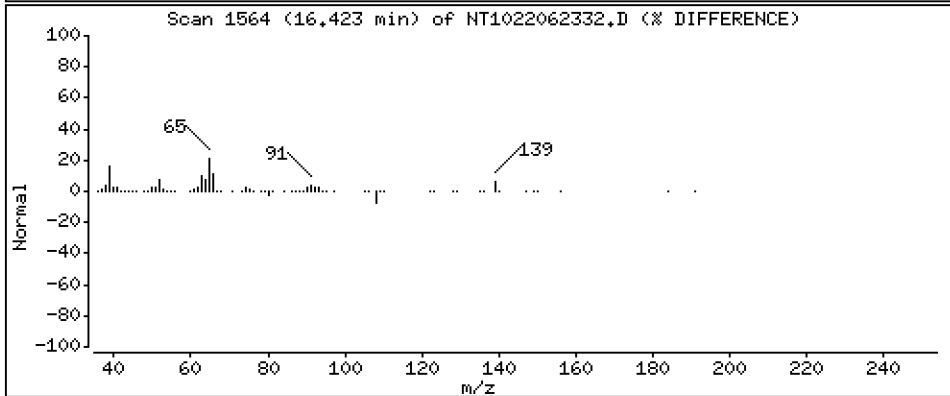
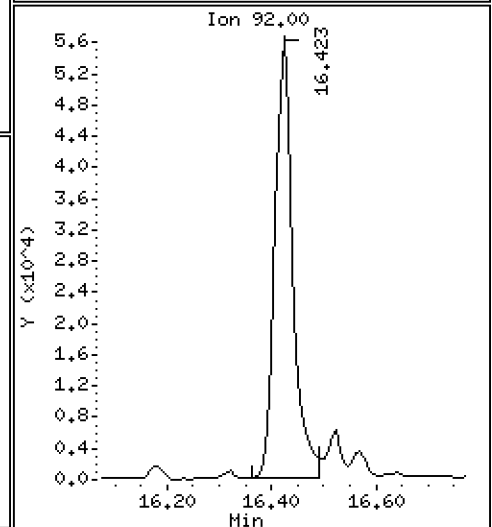
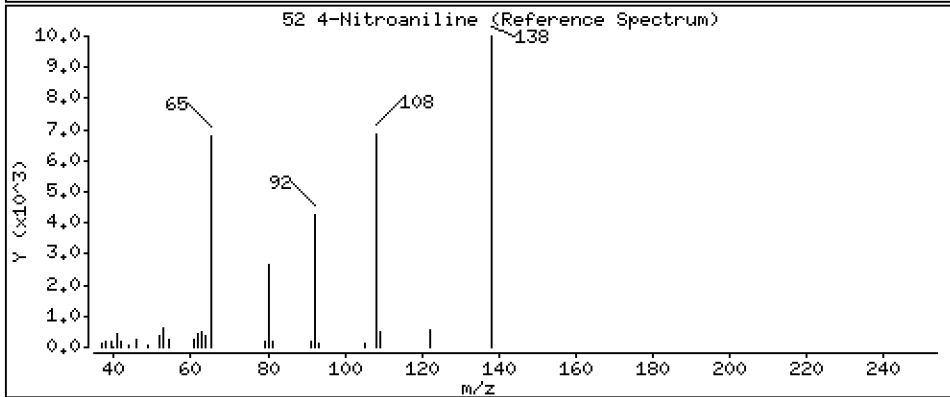
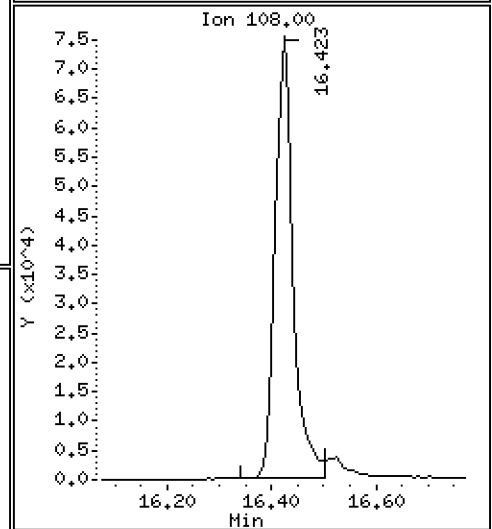
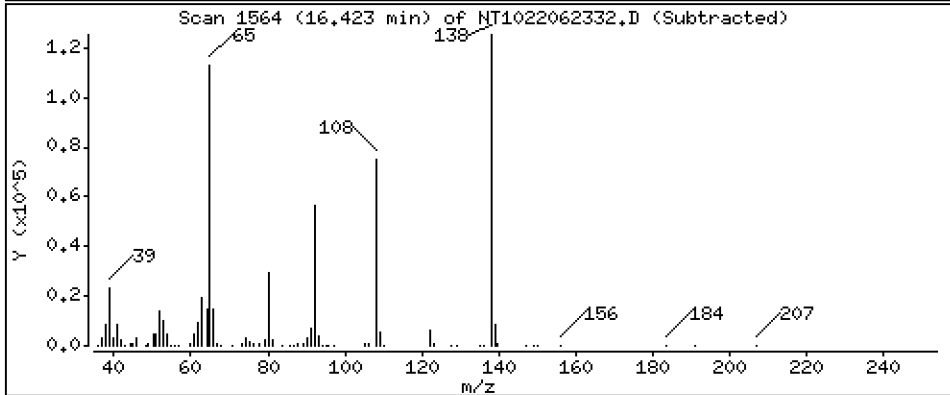
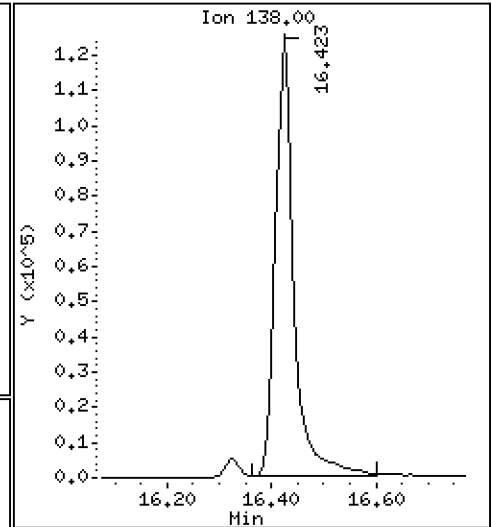
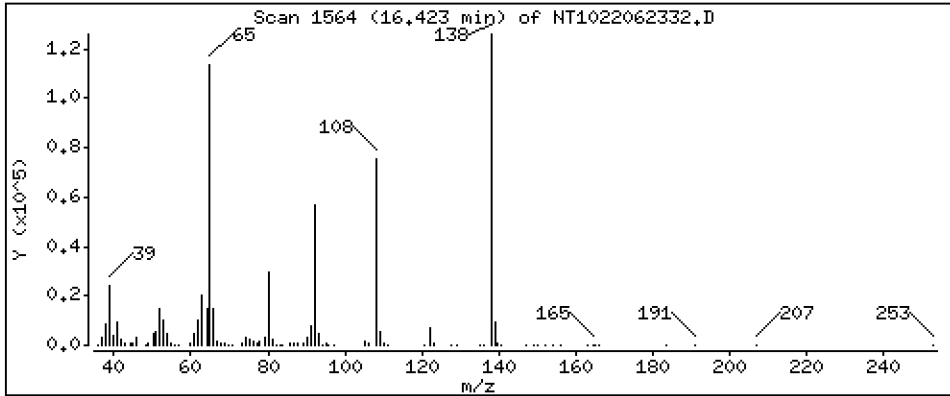
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 10,94 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

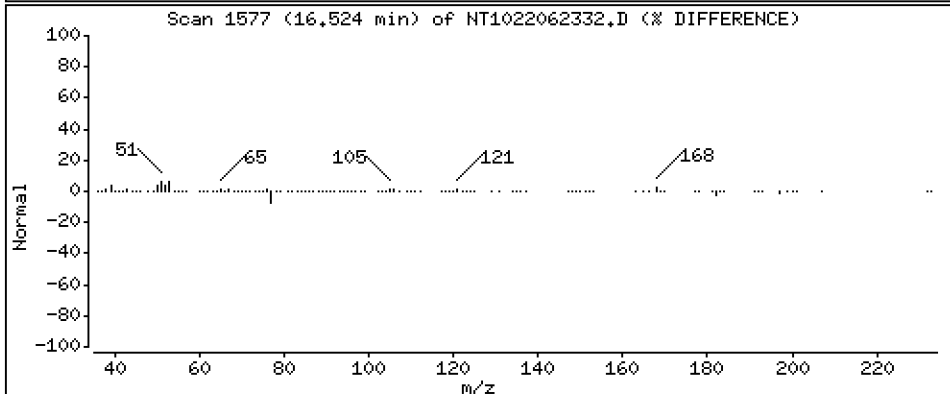
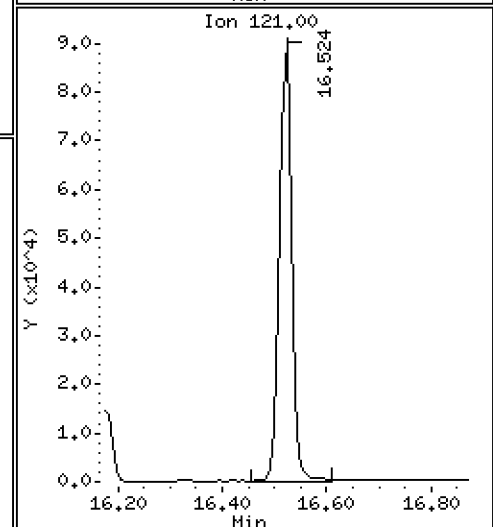
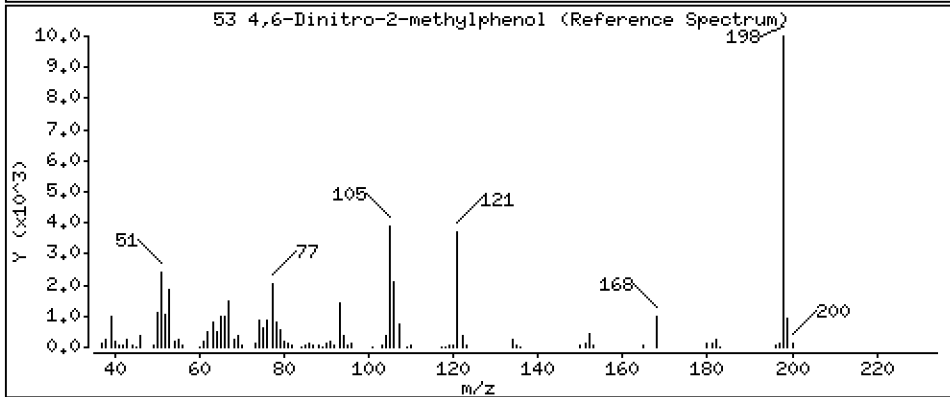
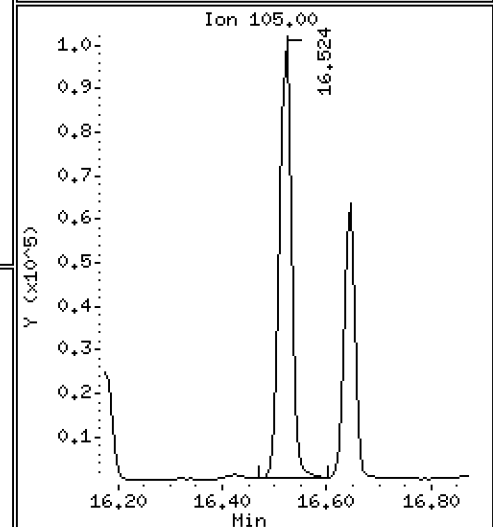
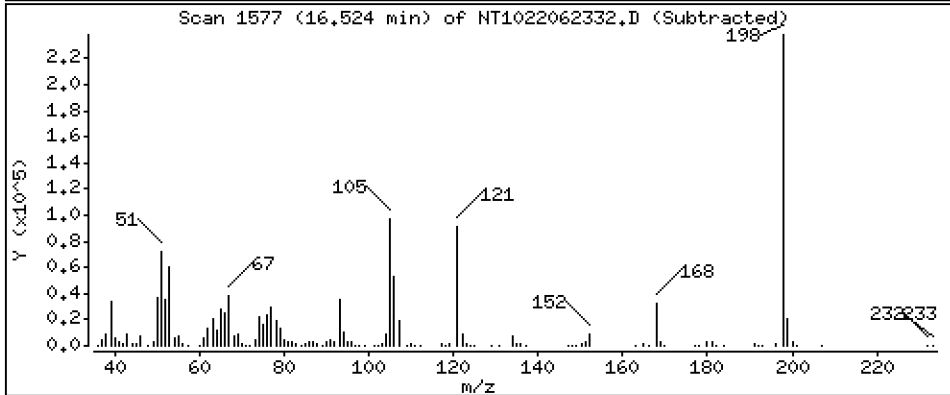
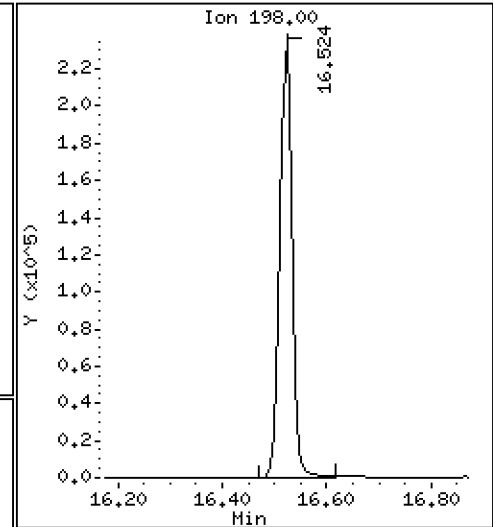
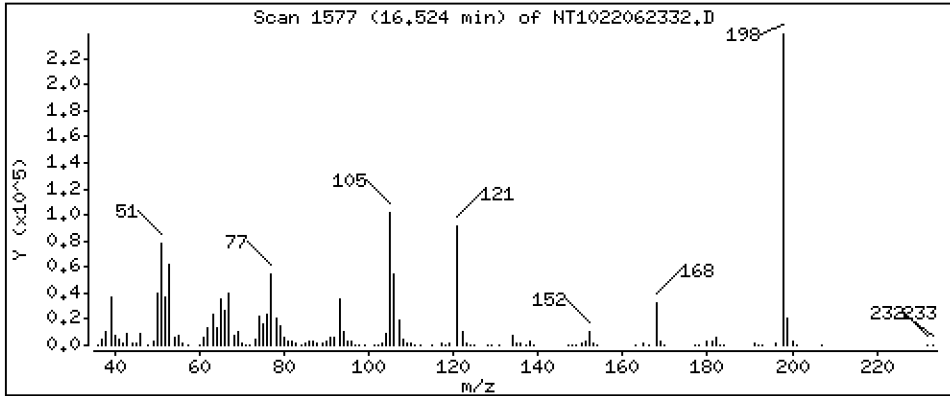
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 22,53 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

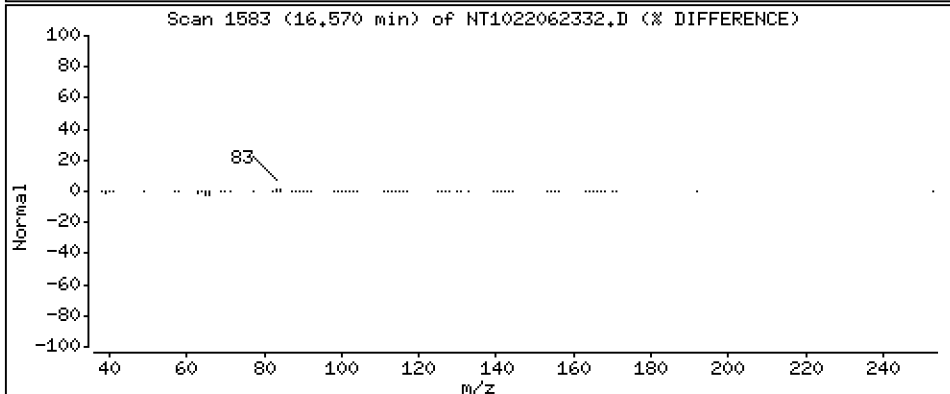
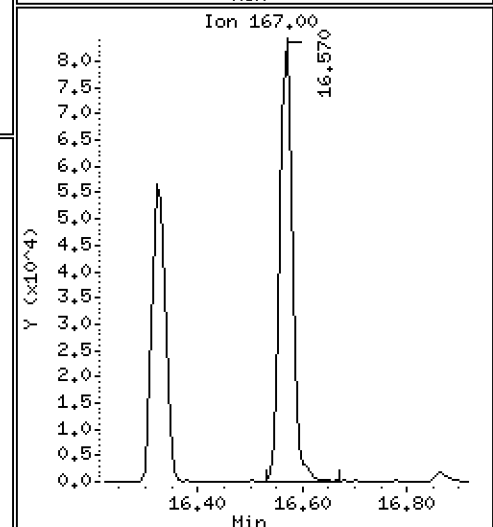
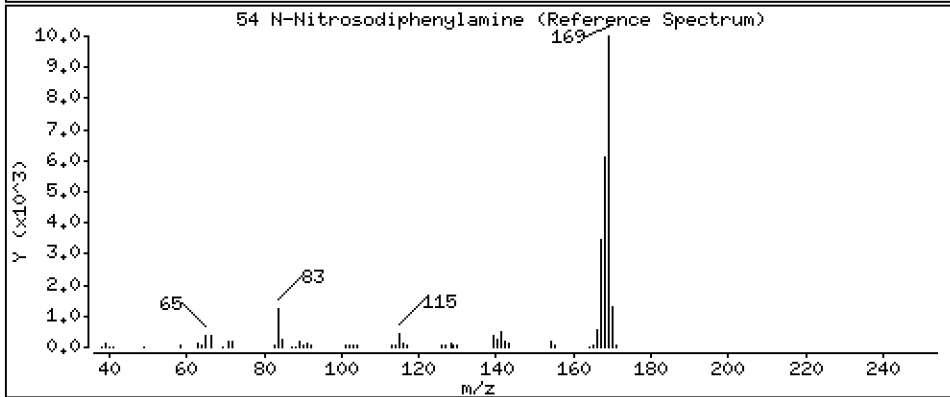
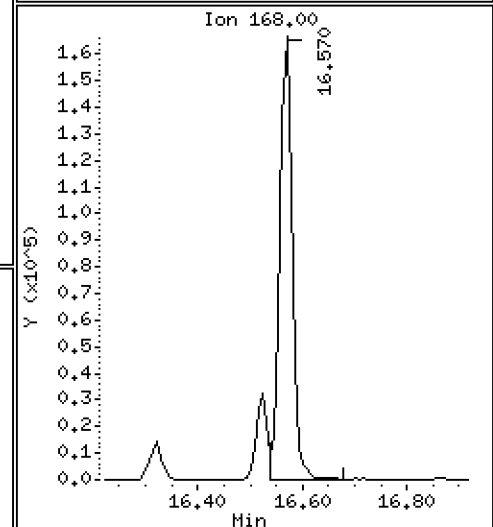
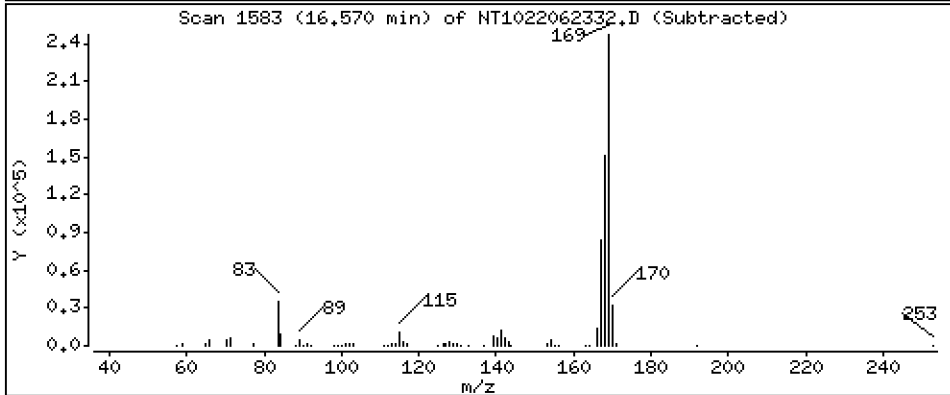
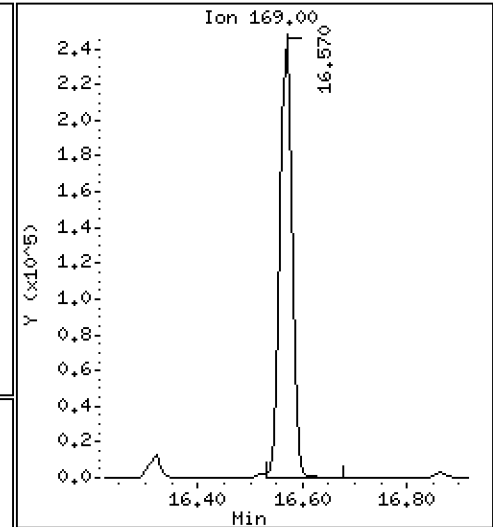
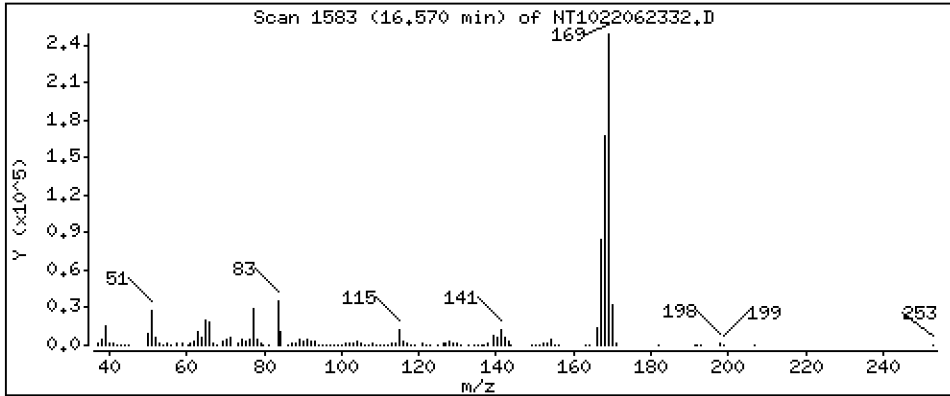
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 5,803 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

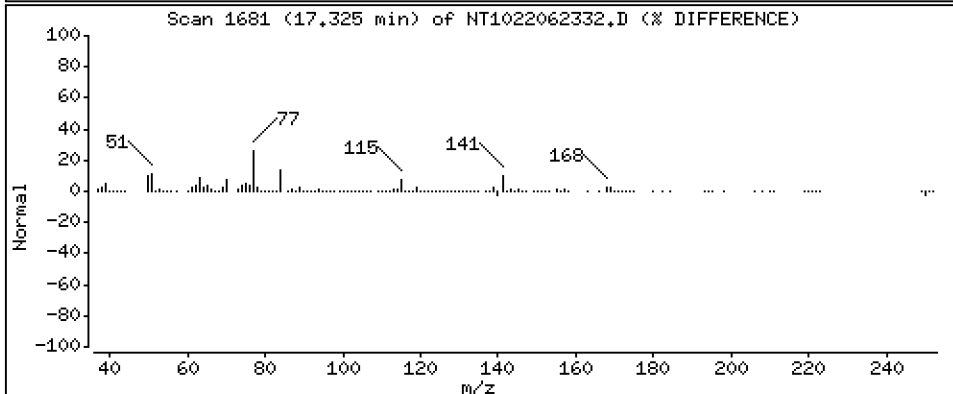
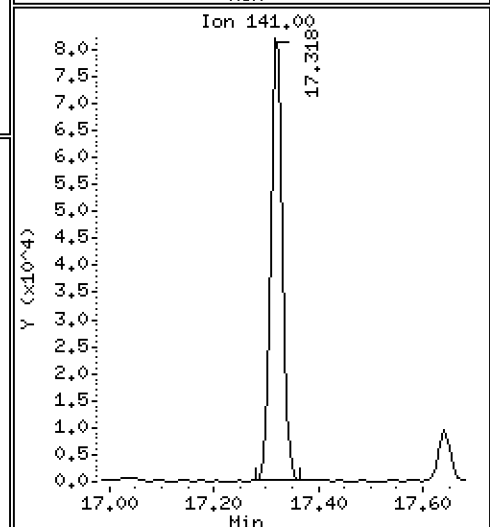
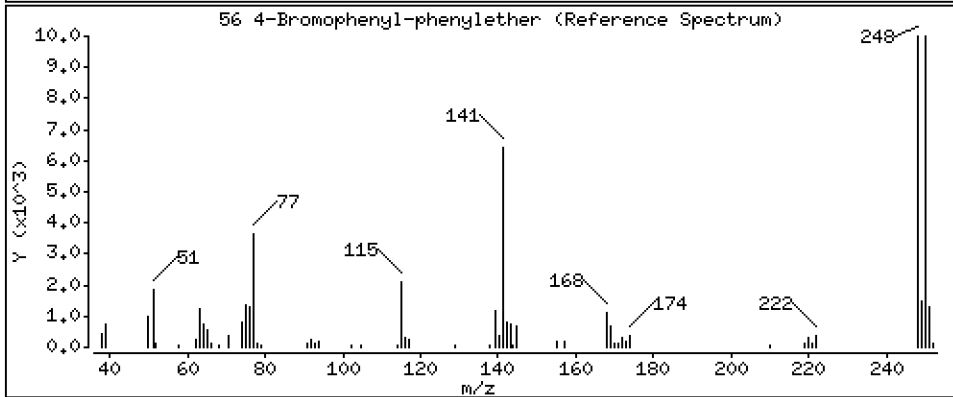
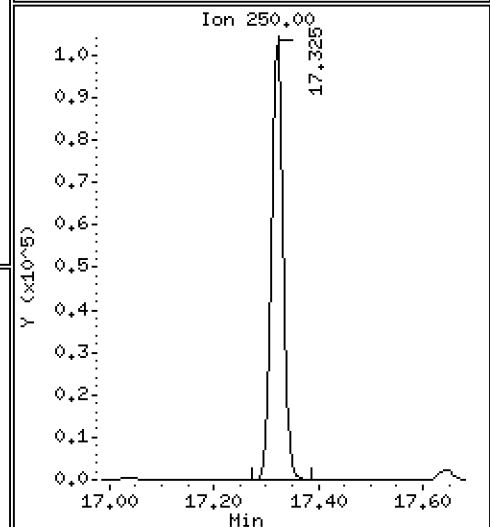
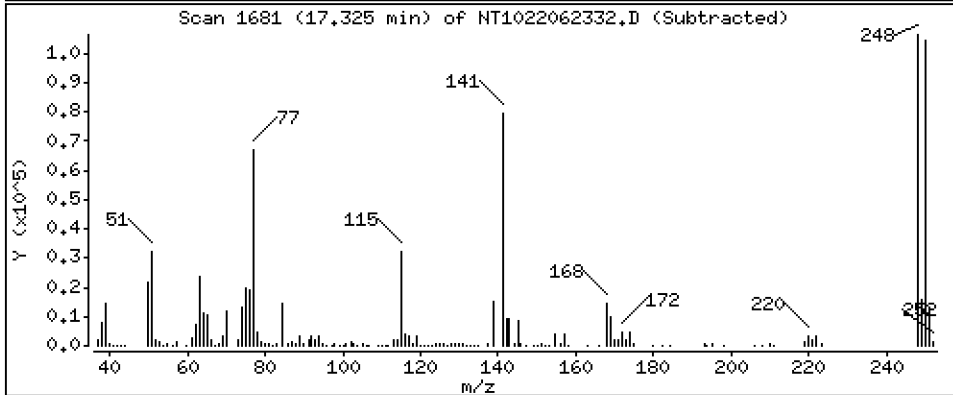
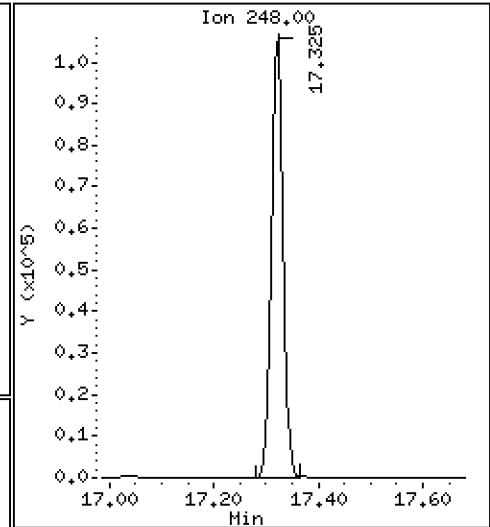
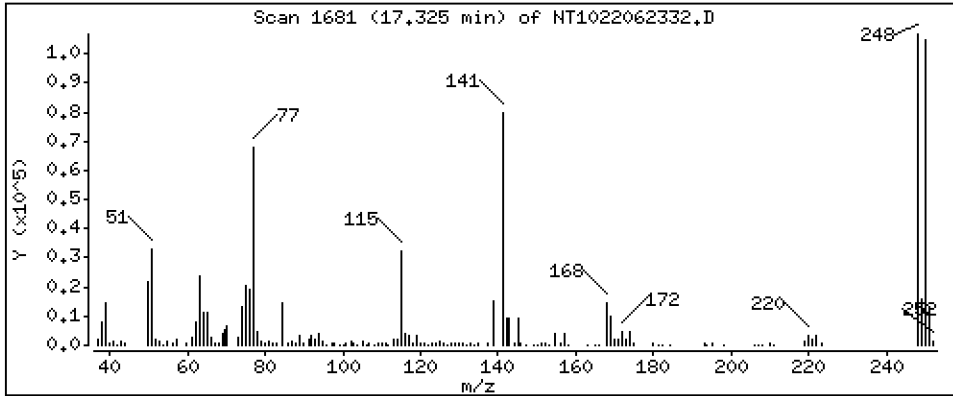
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,670 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

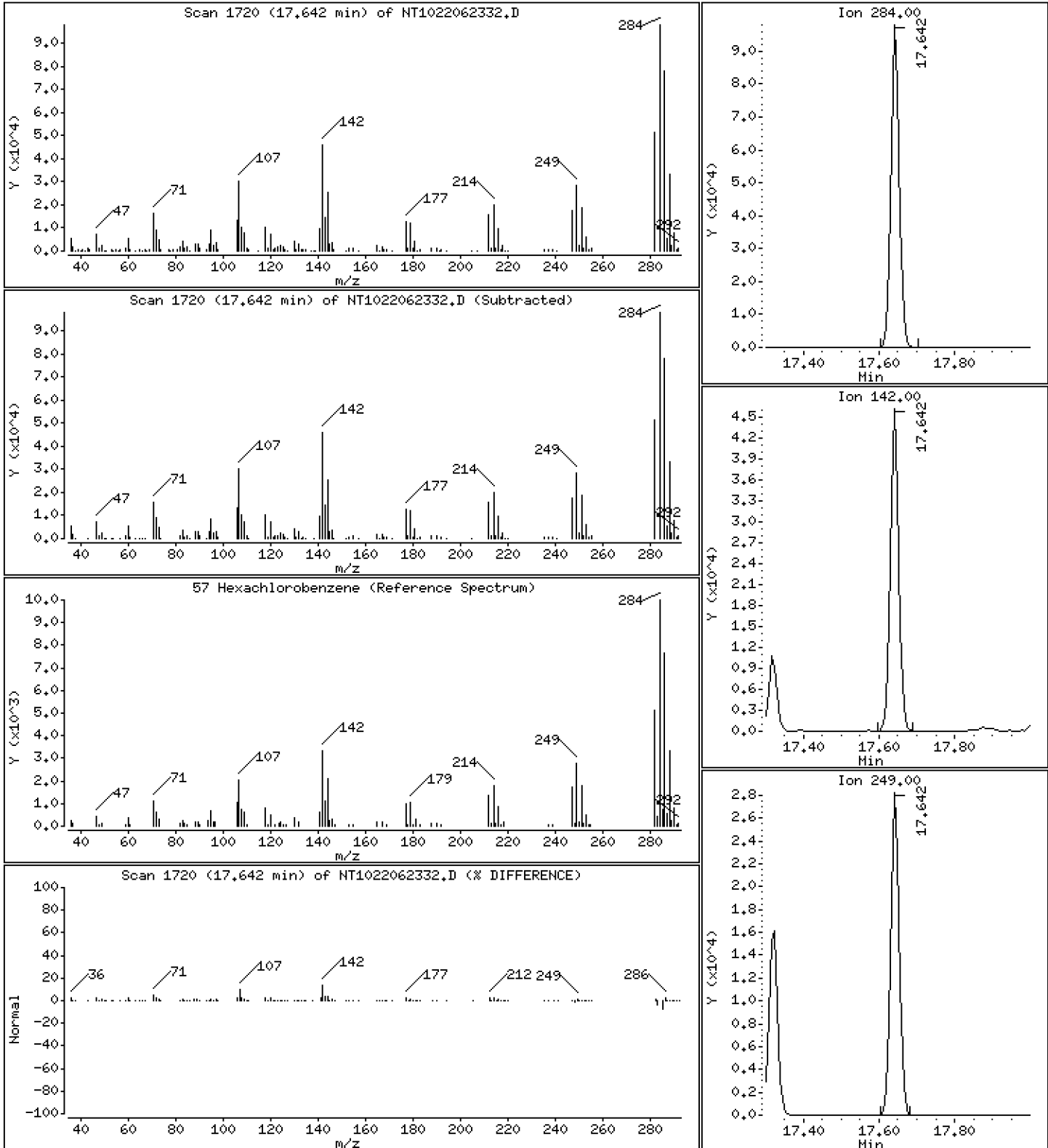
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 5,479 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

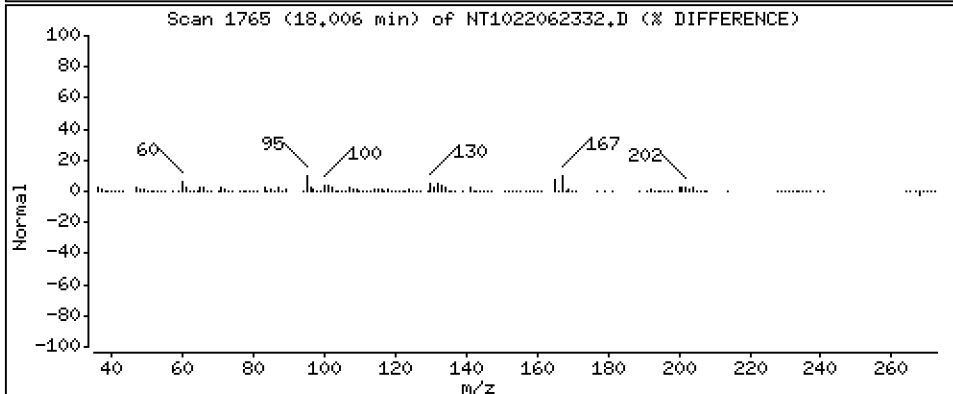
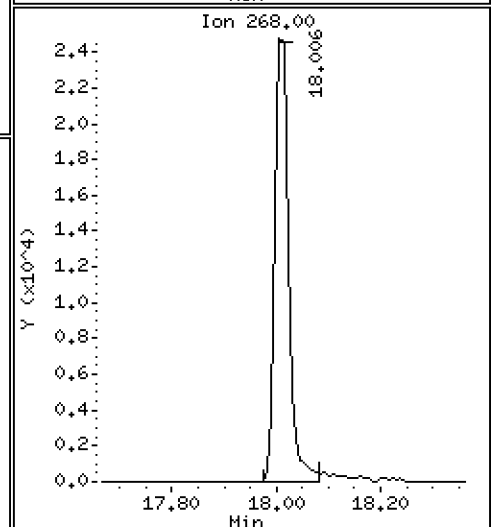
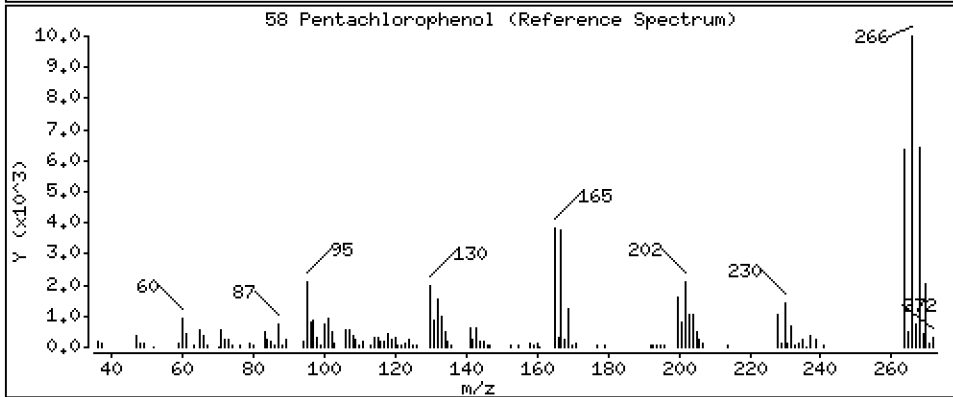
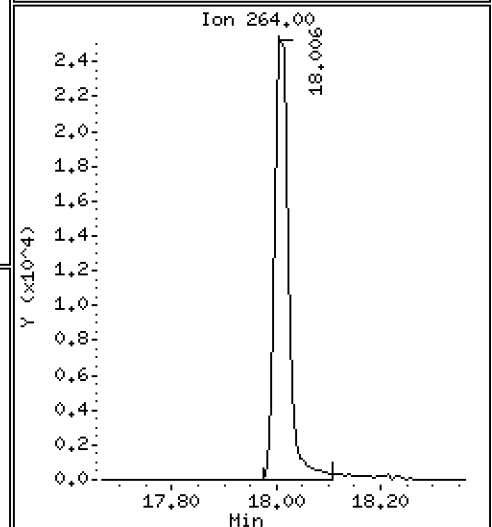
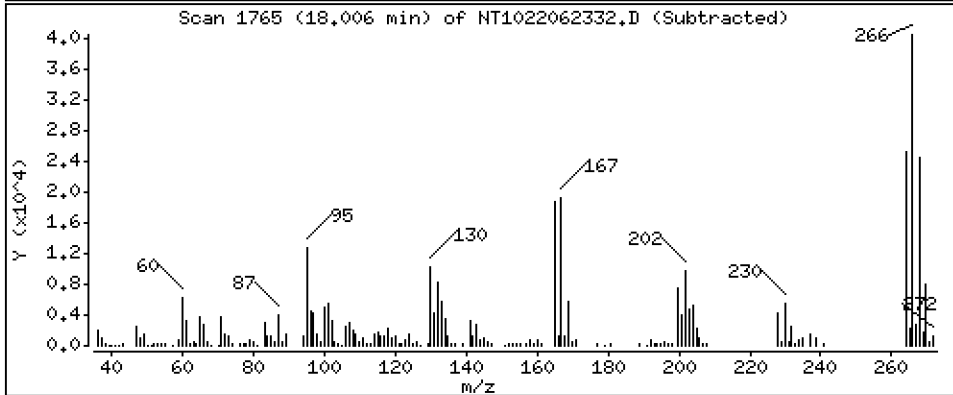
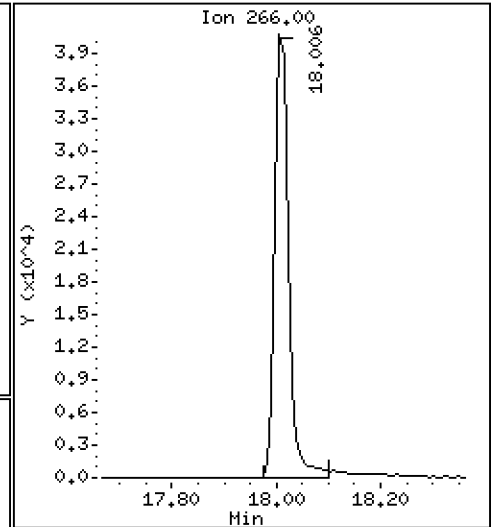
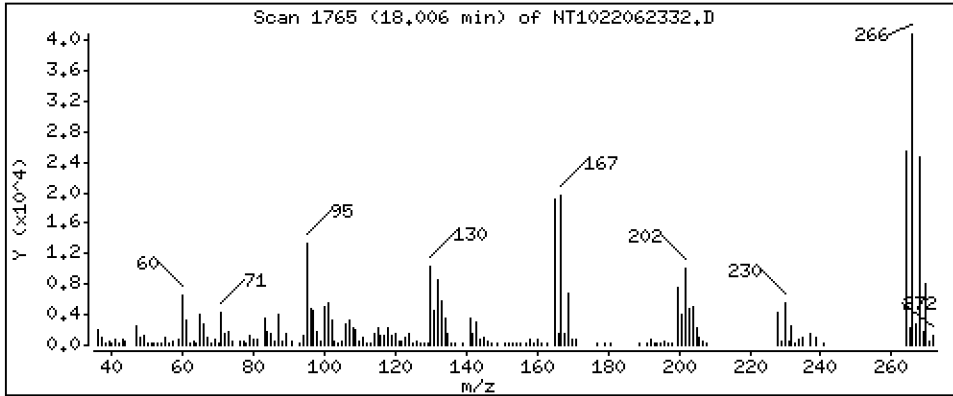
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 11,11 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

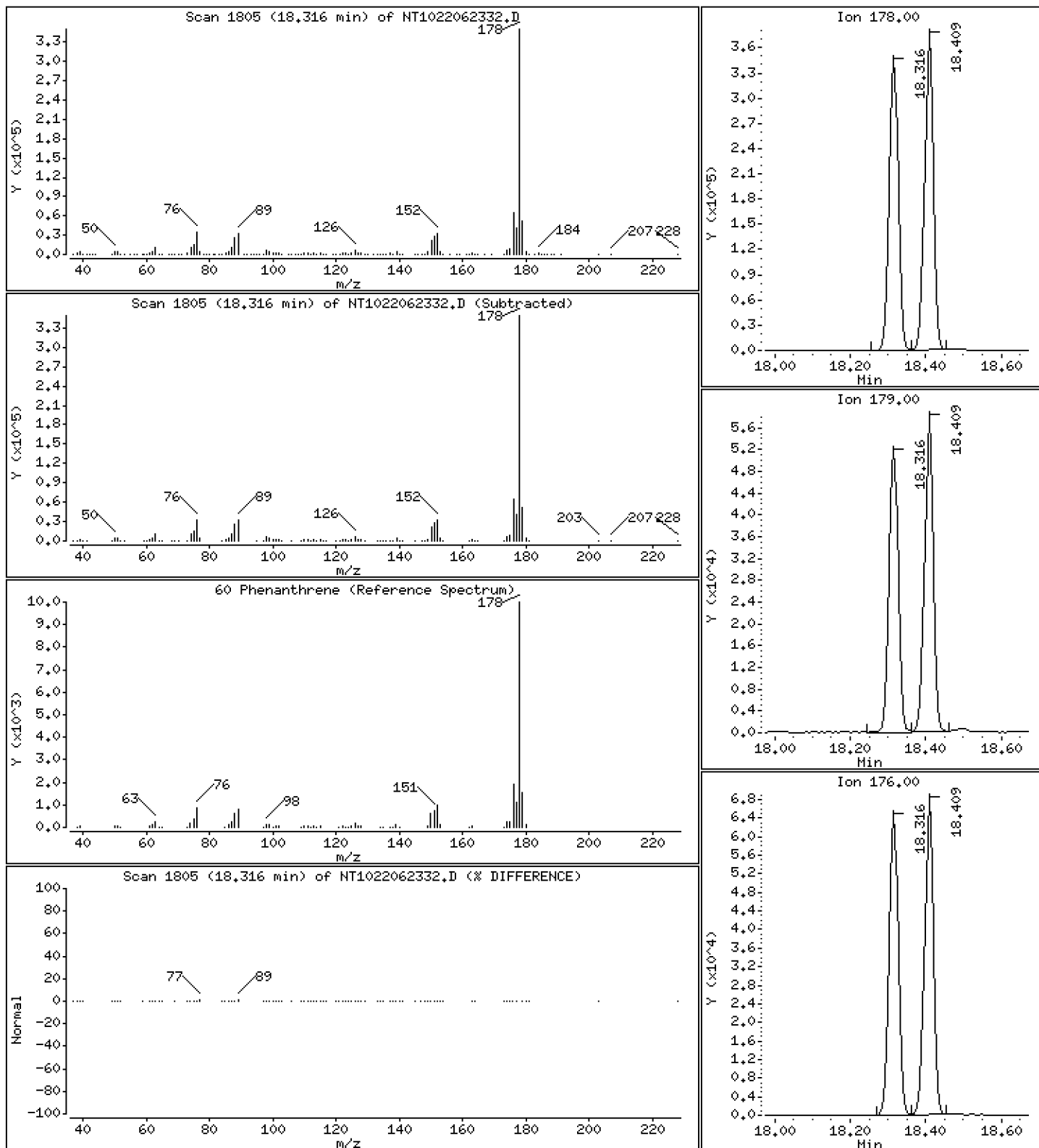
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 5,150 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

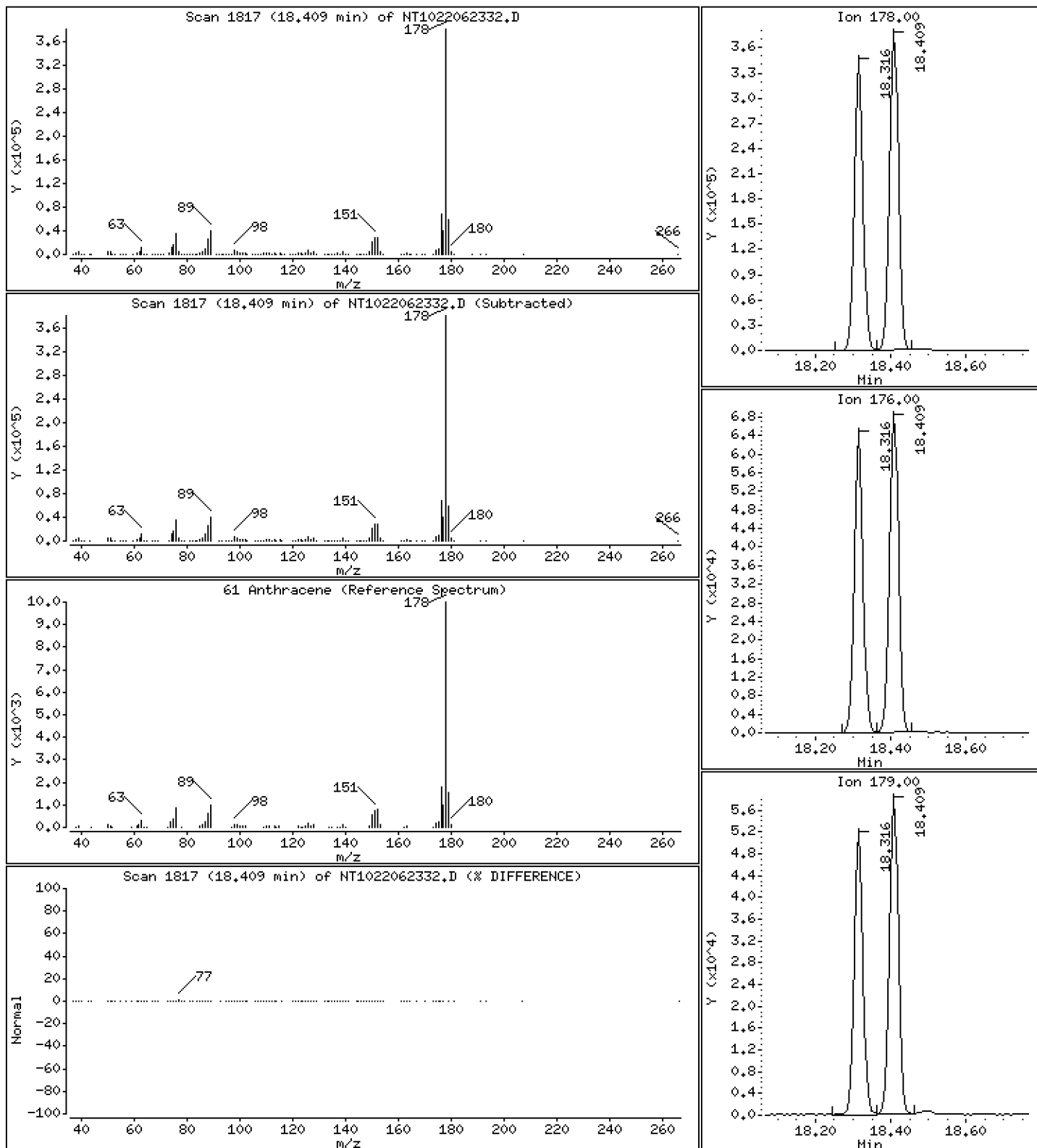
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 5,098 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

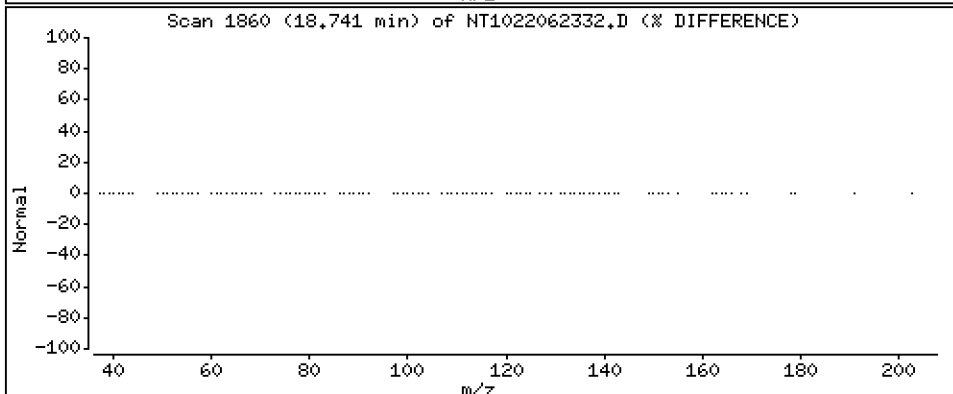
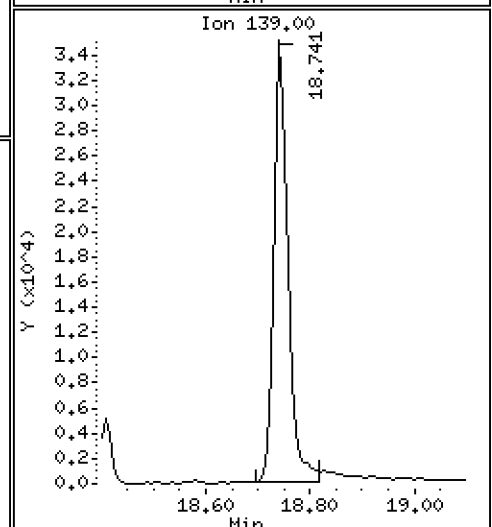
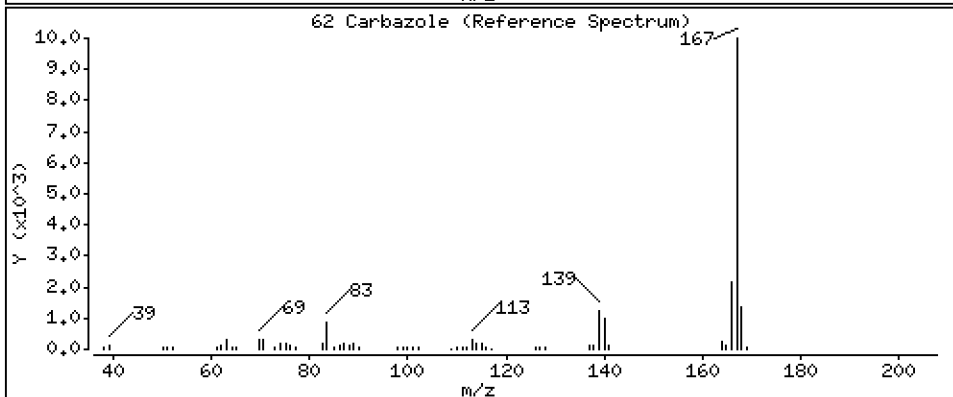
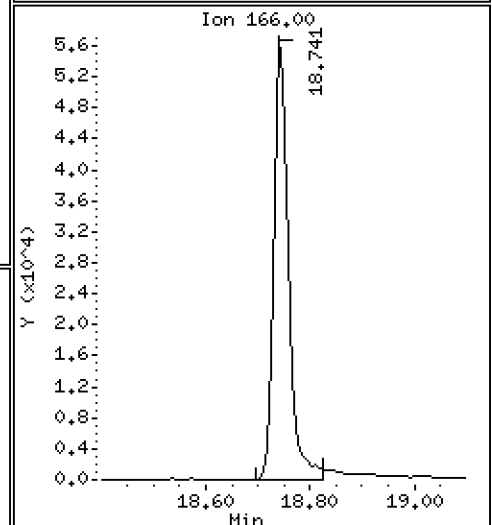
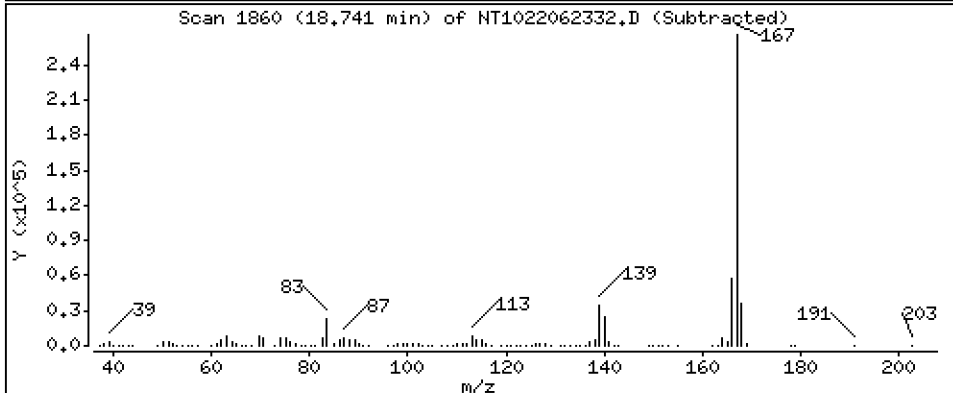
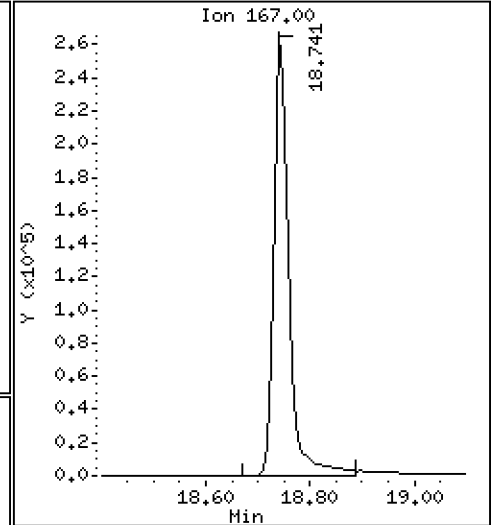
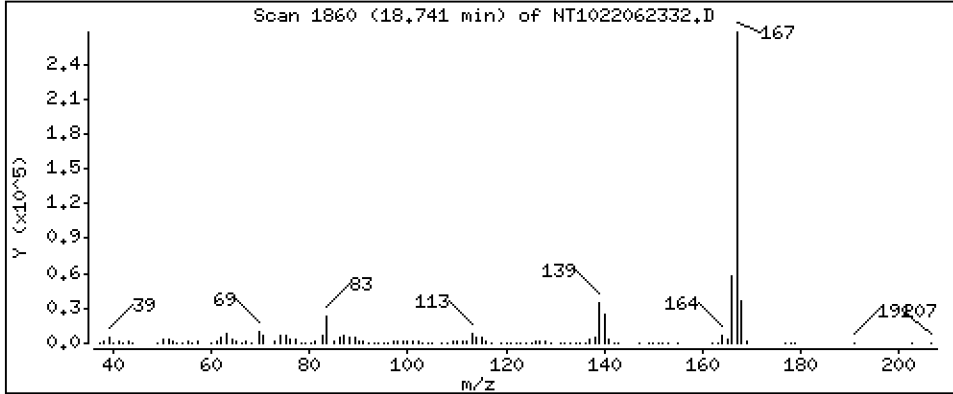
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,816 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

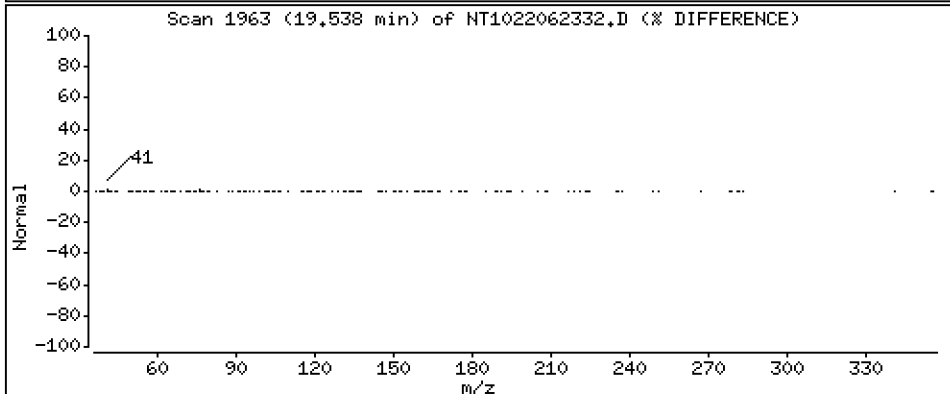
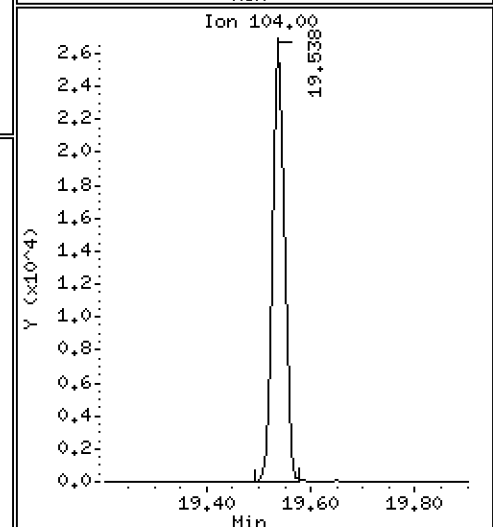
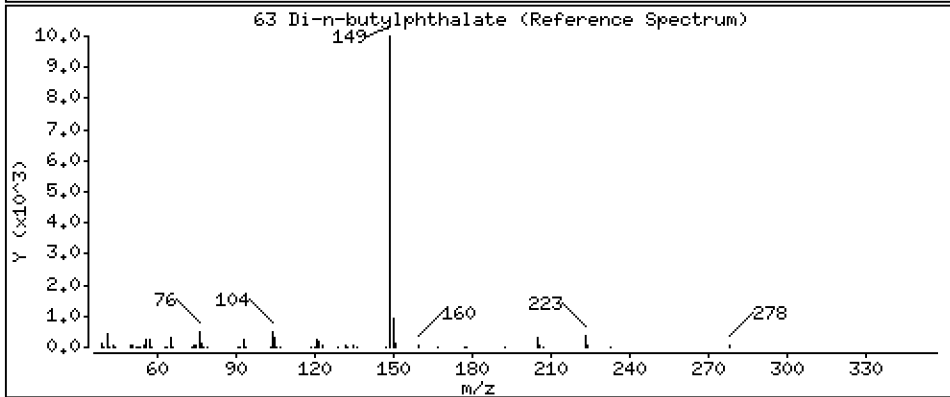
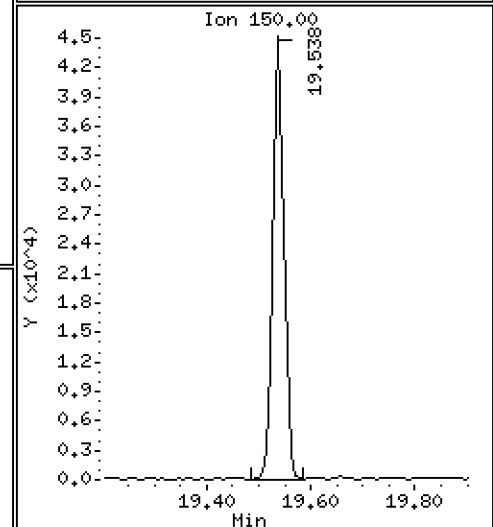
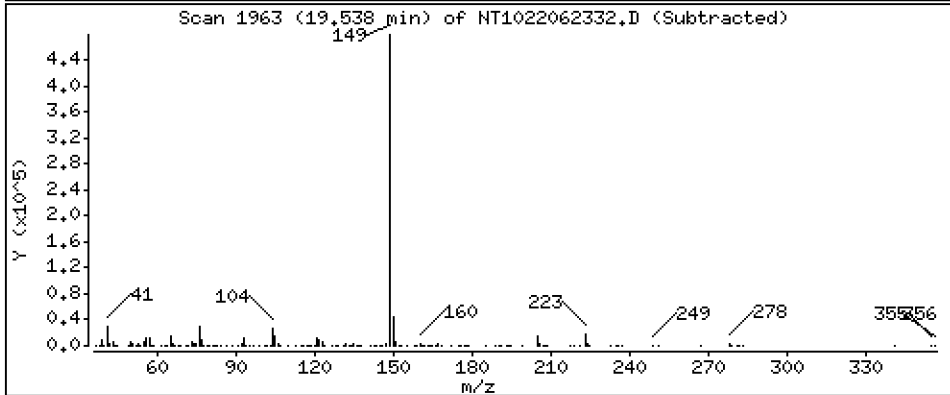
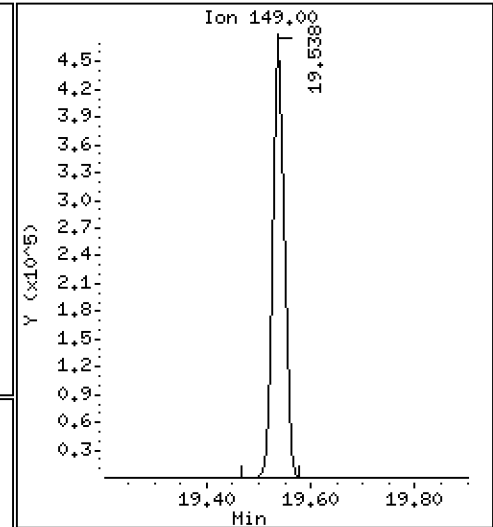
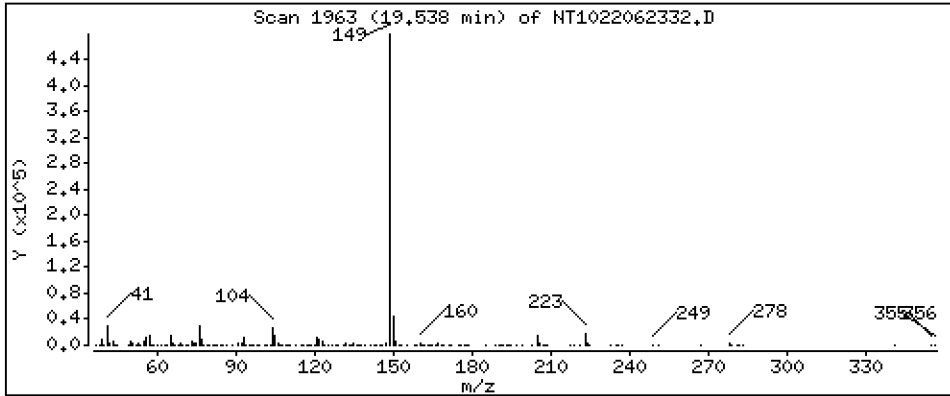
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,306 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

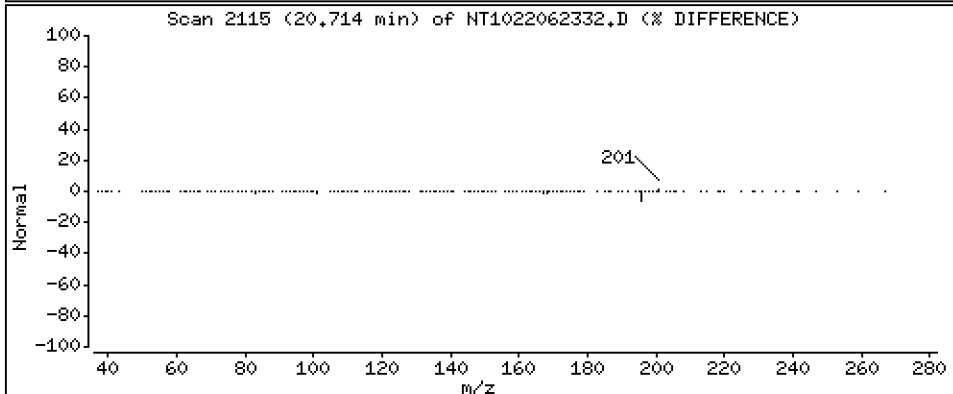
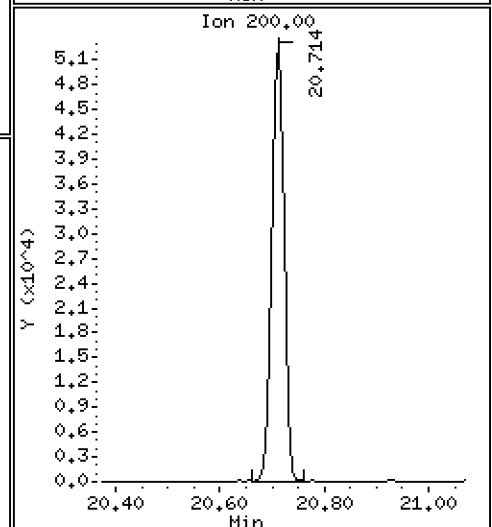
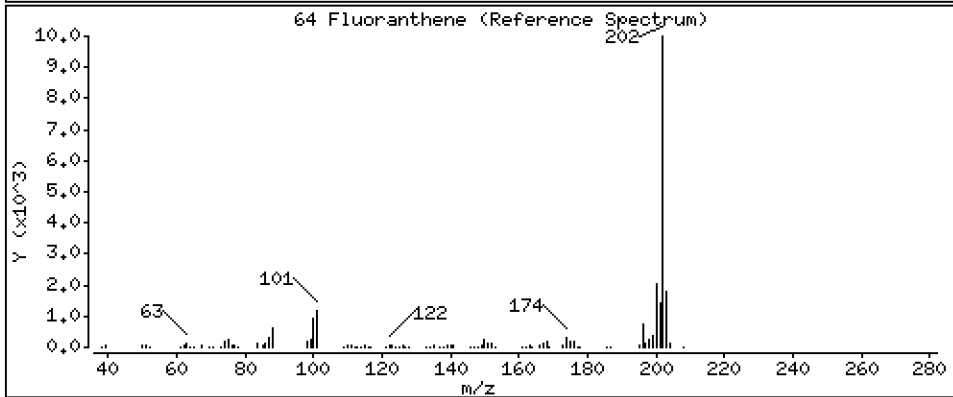
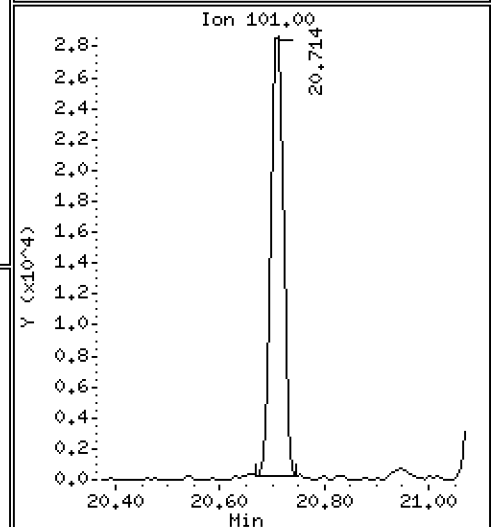
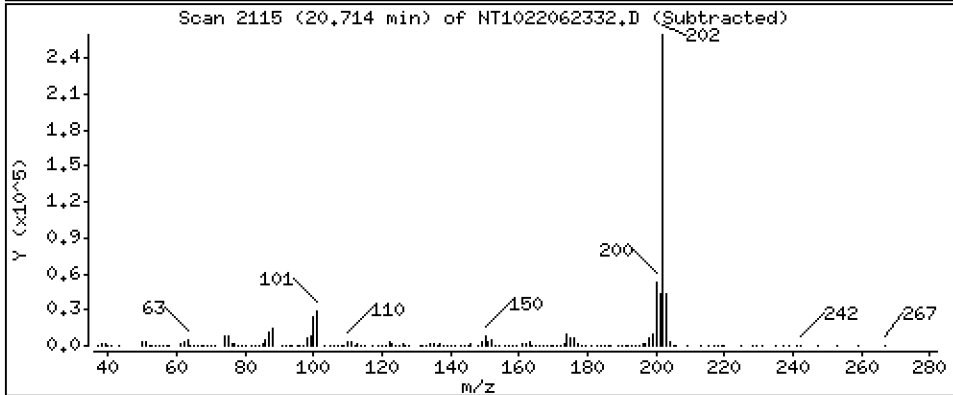
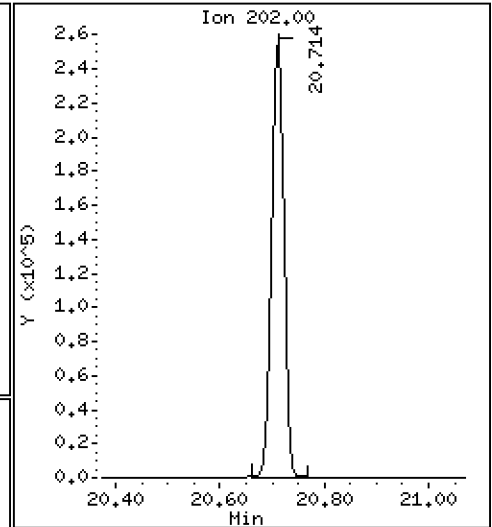
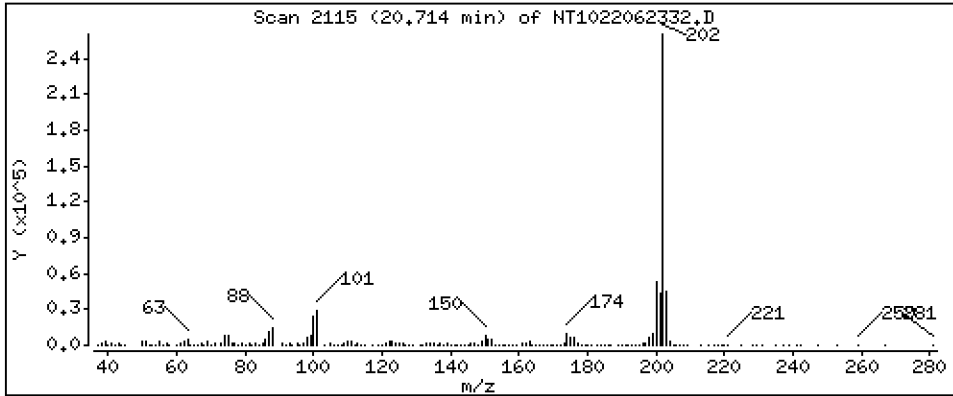
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,735 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

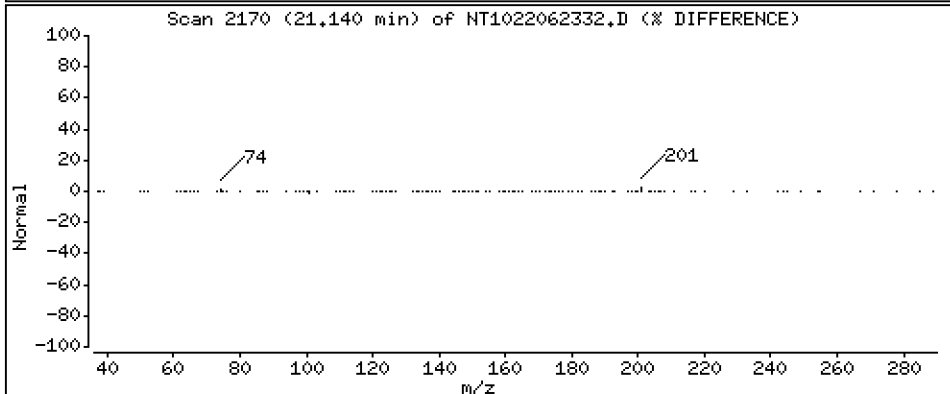
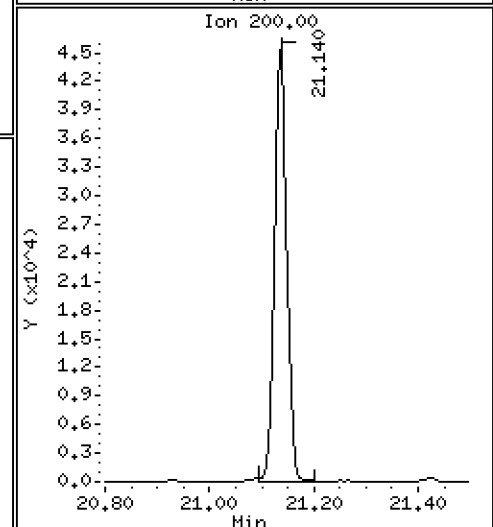
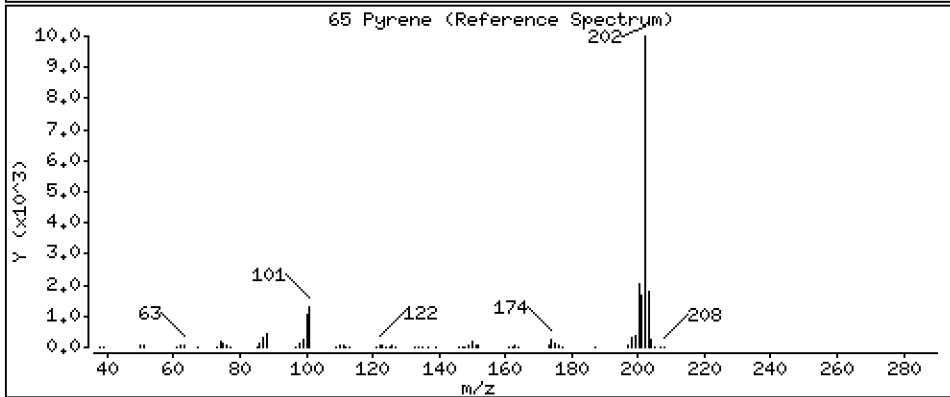
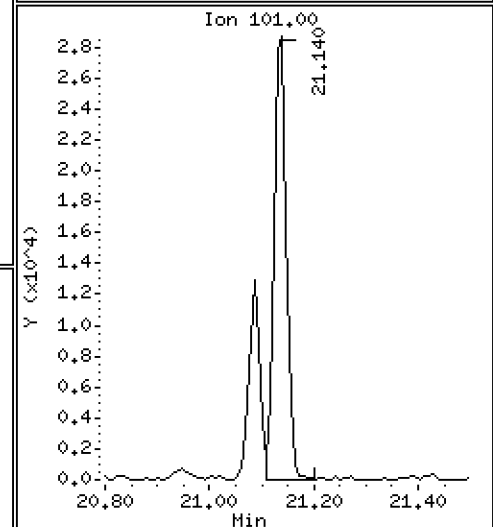
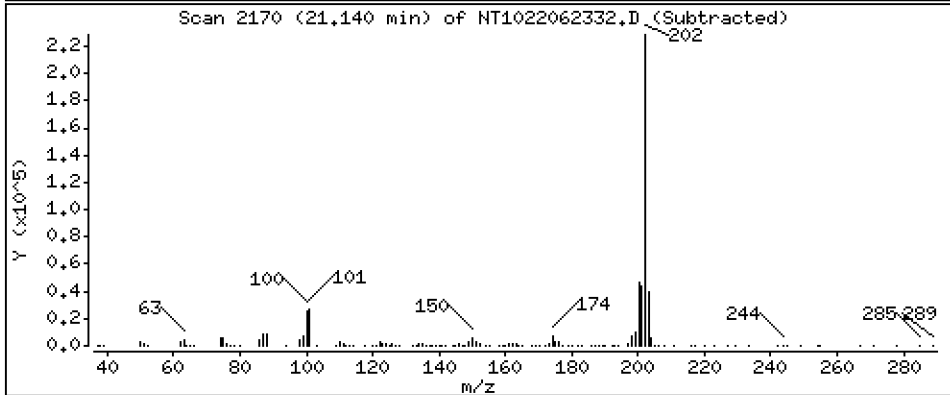
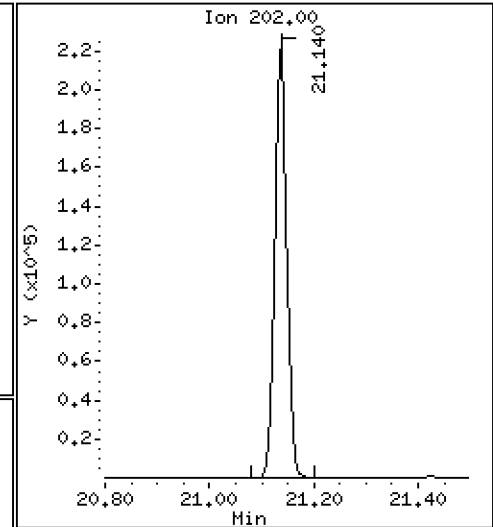
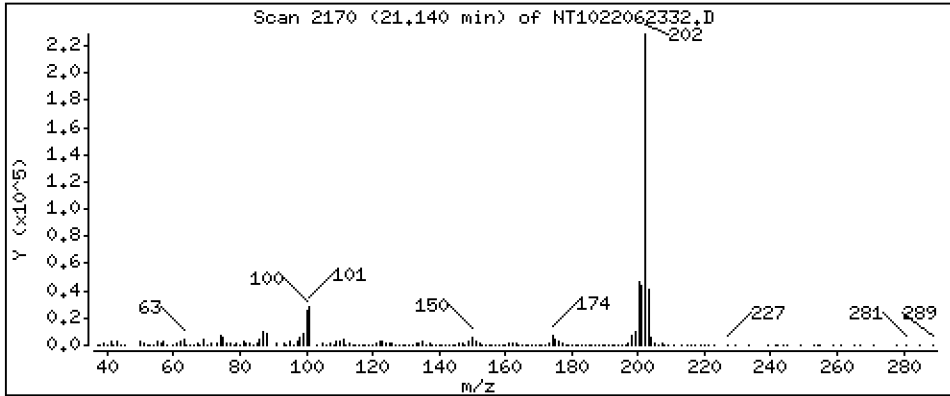
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,730 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

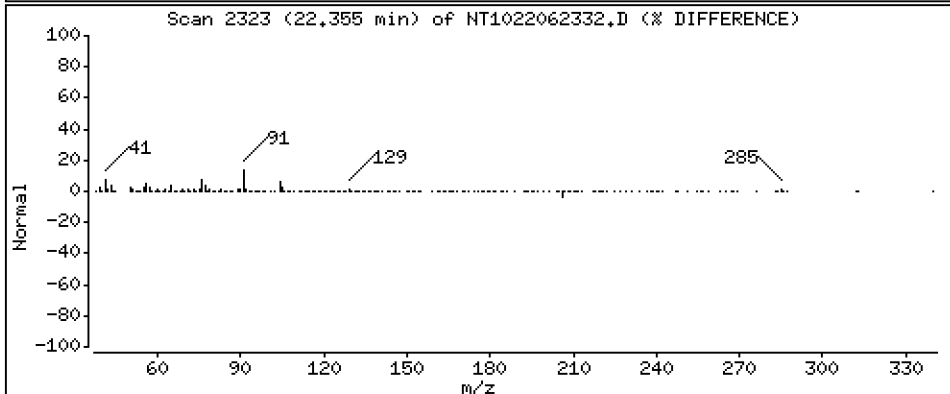
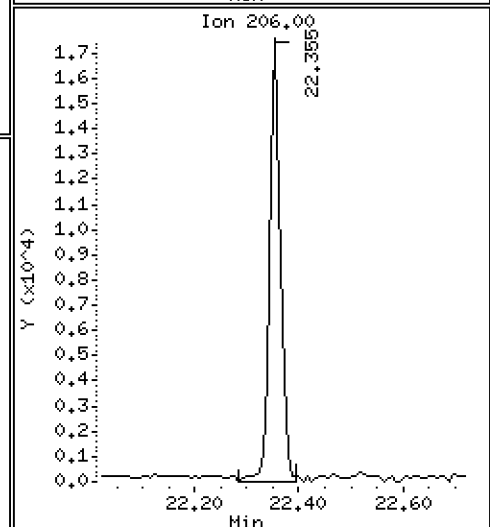
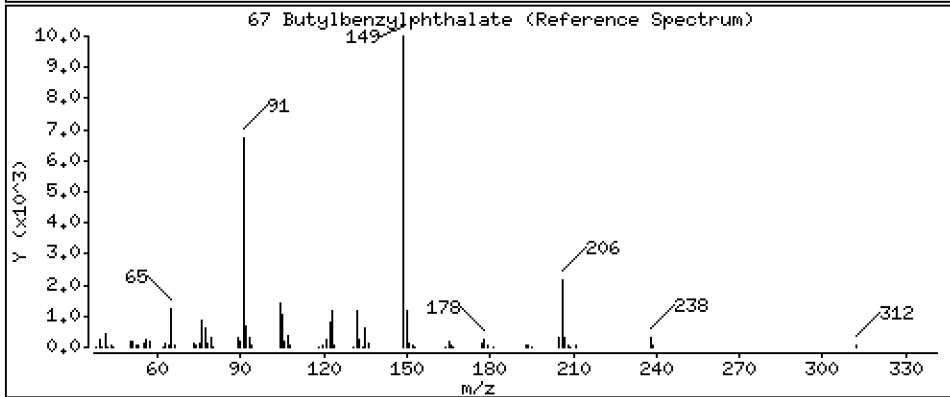
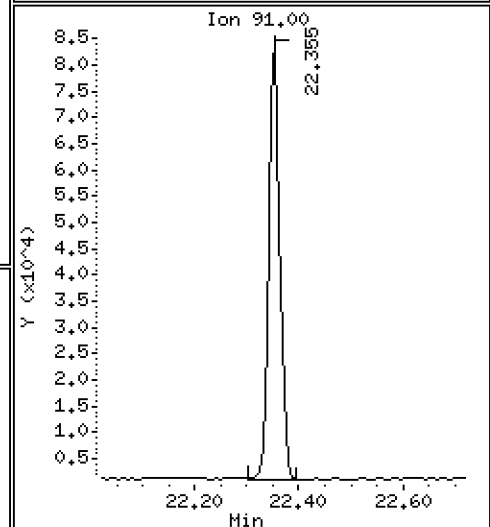
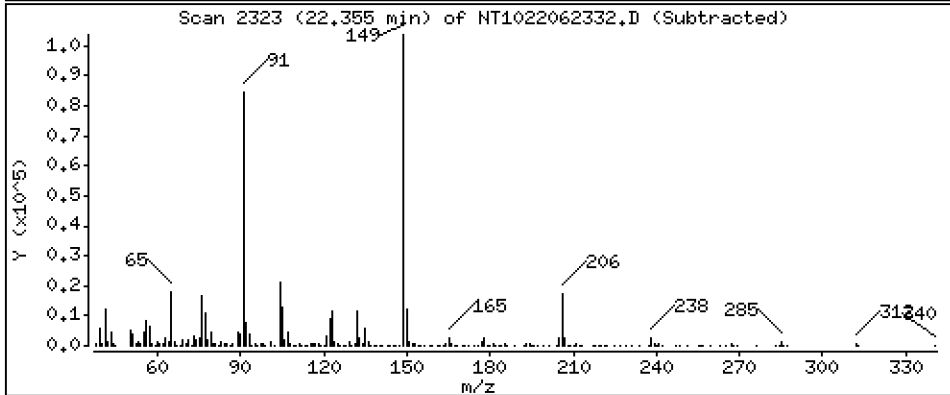
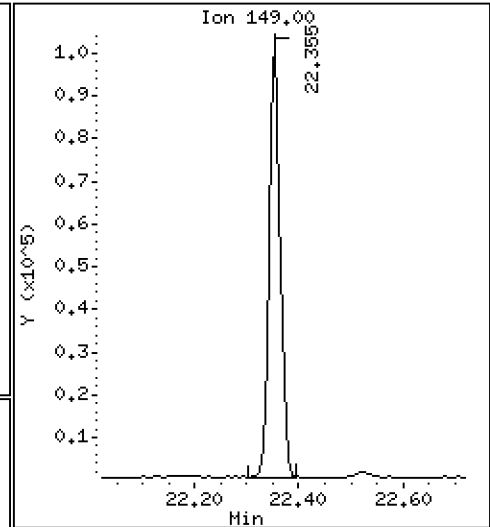
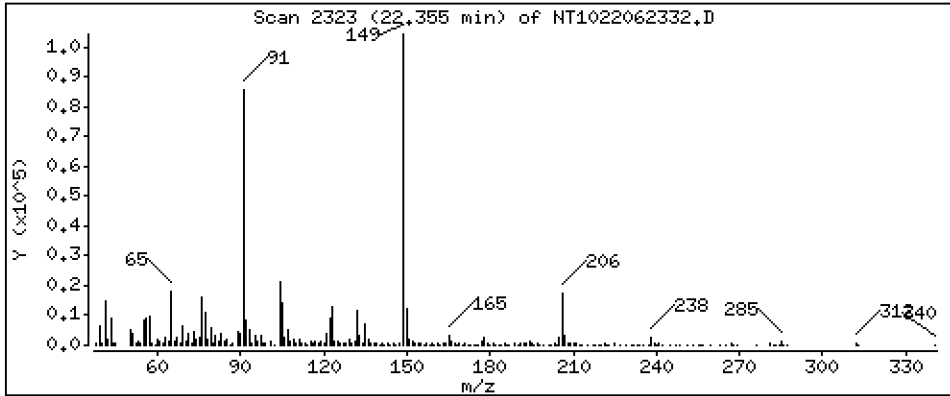
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 6,239 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

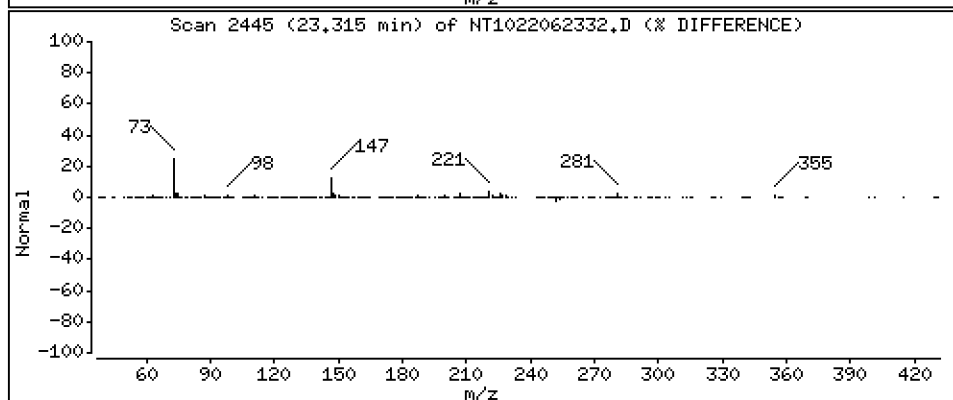
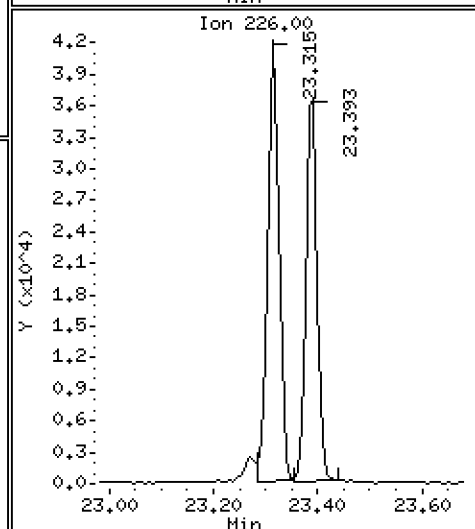
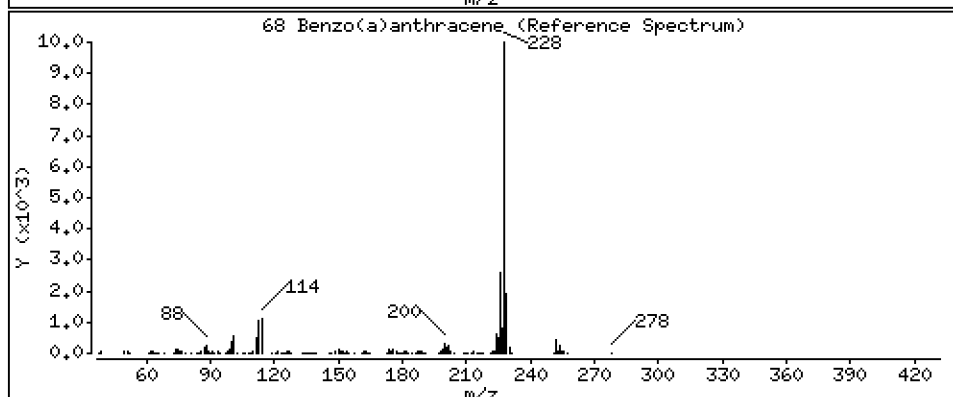
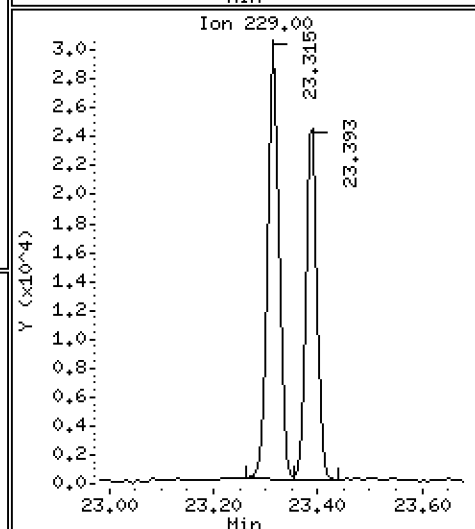
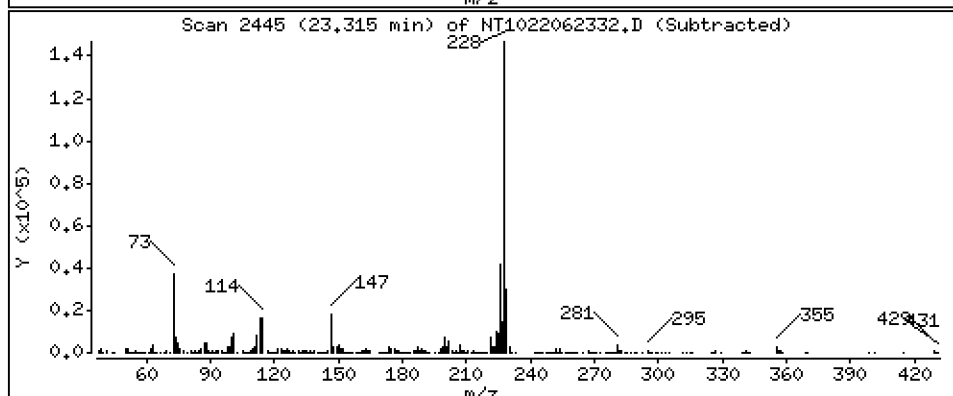
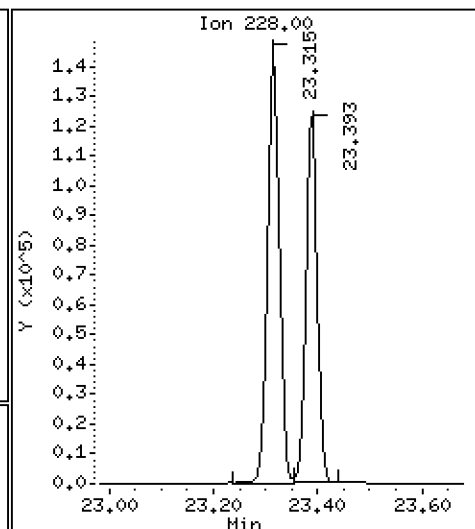
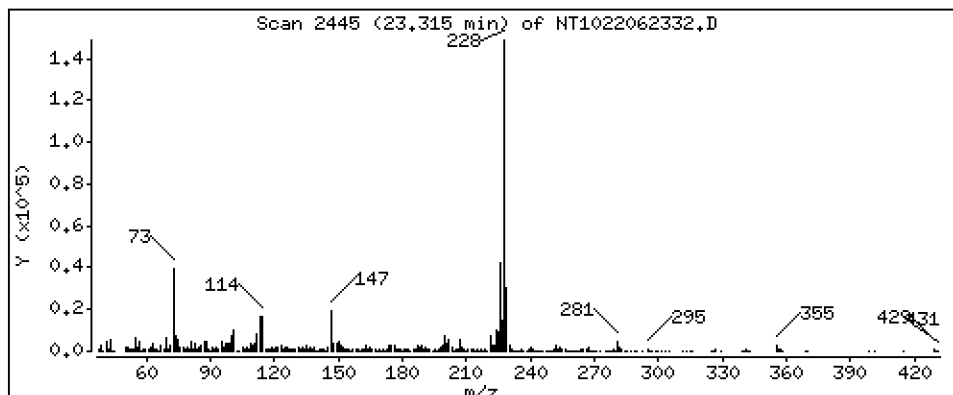
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,530 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

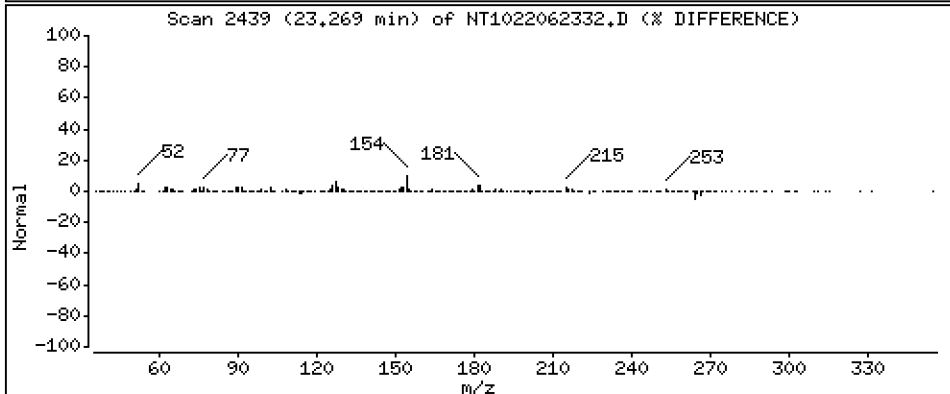
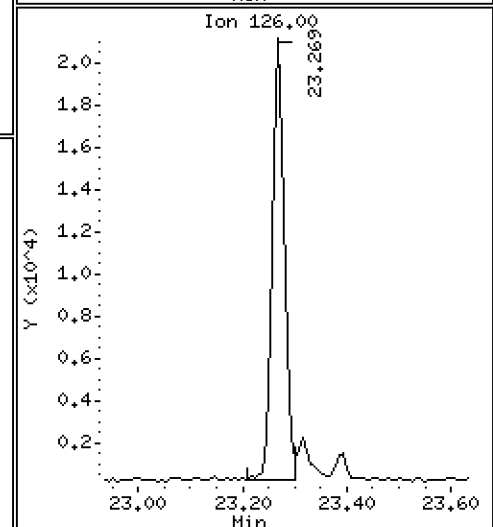
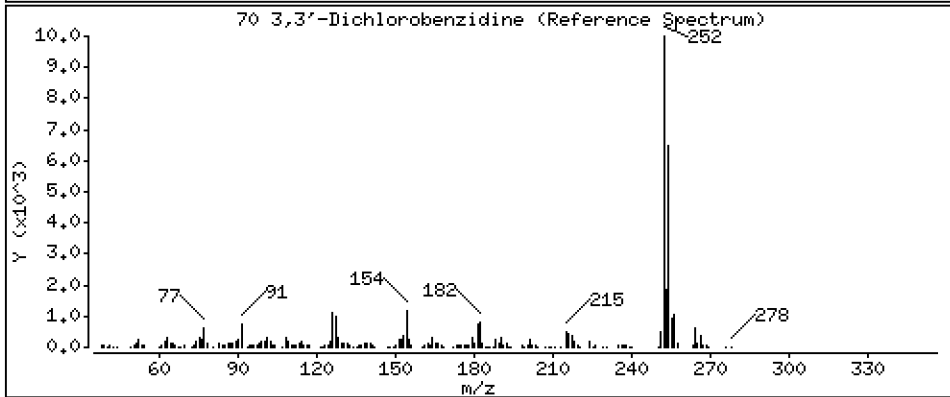
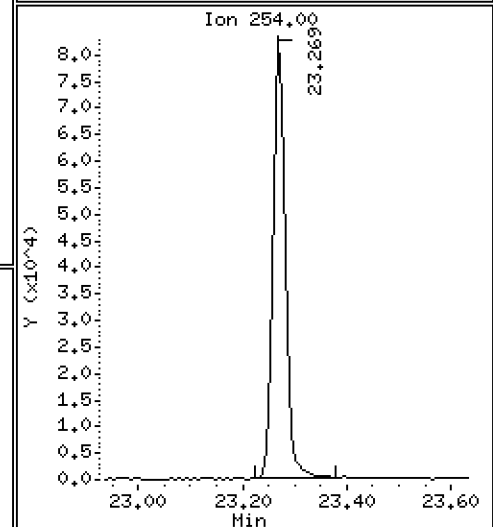
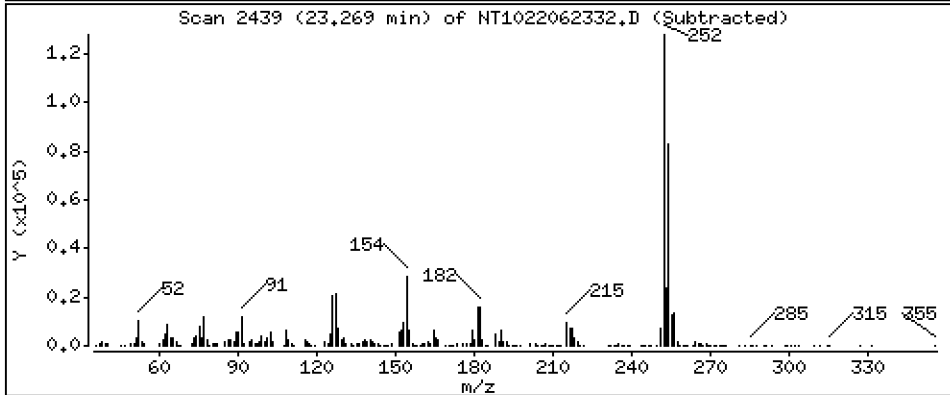
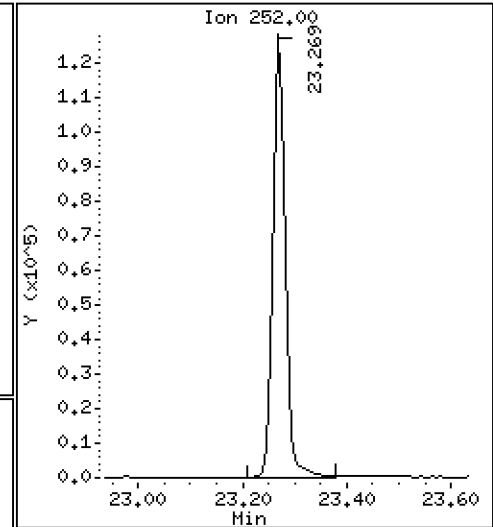
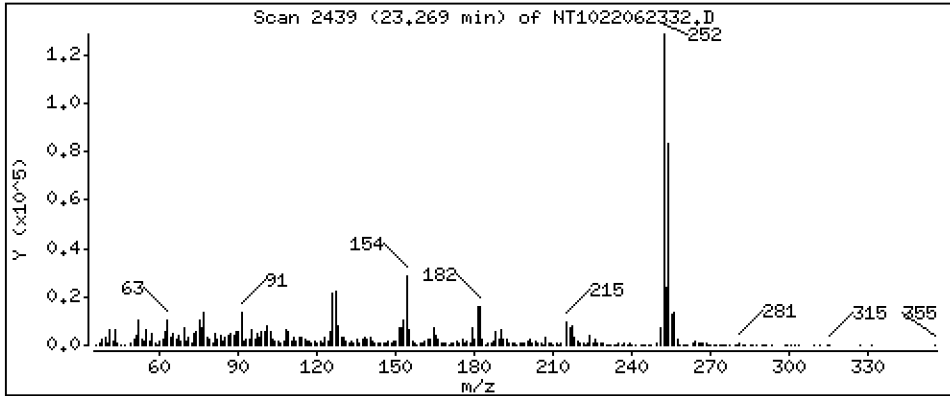
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 12,79 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

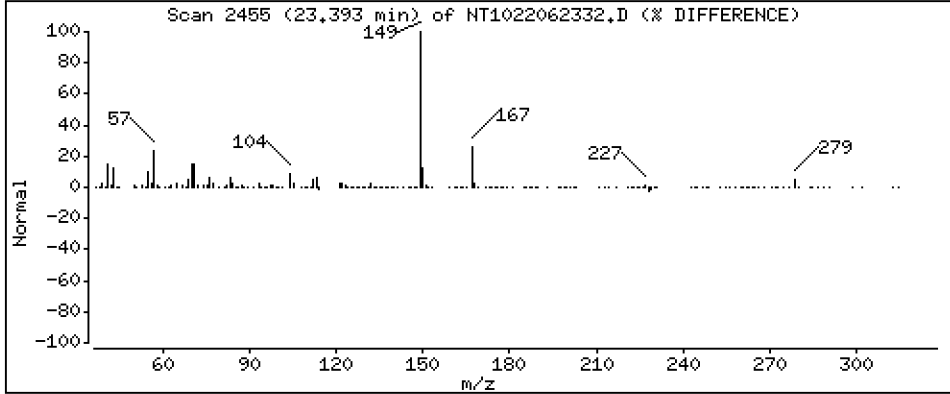
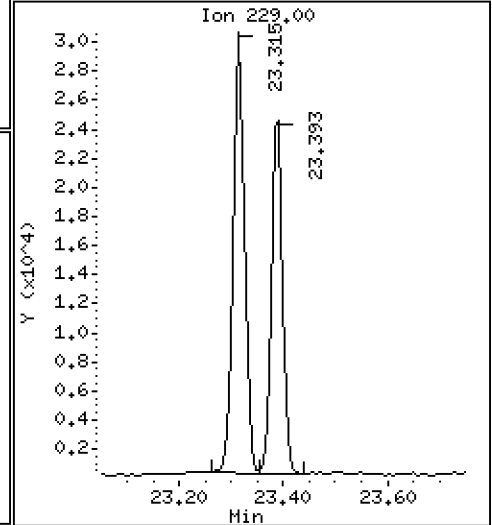
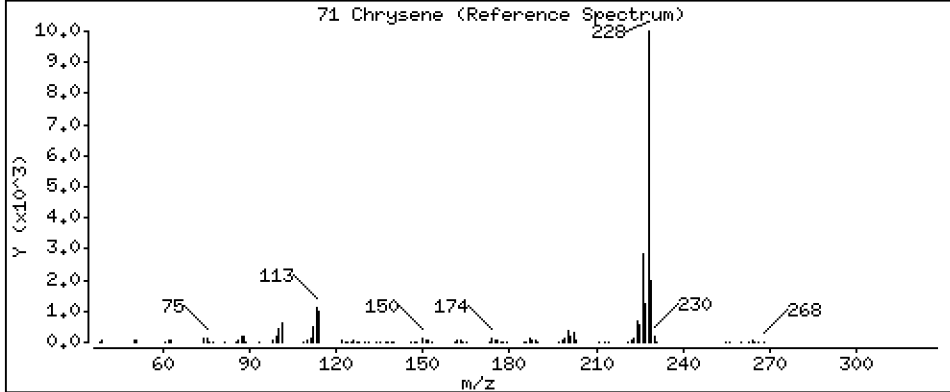
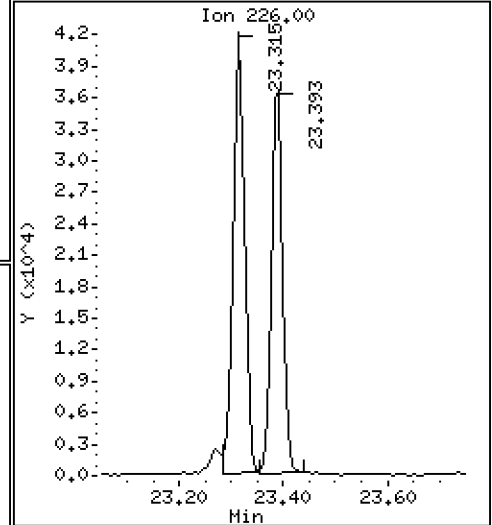
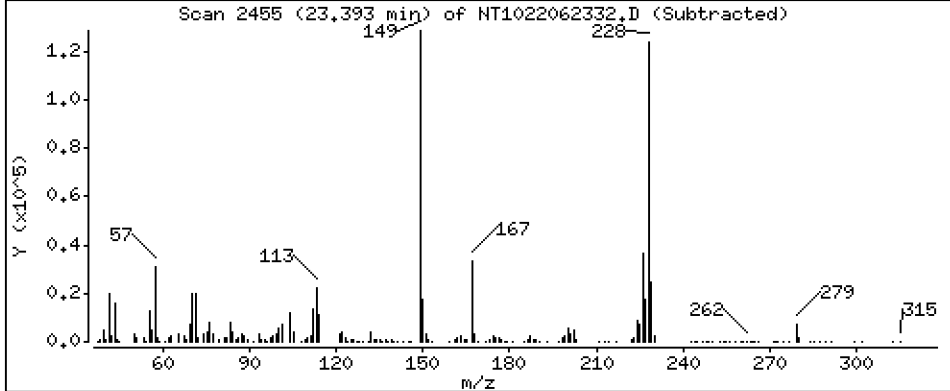
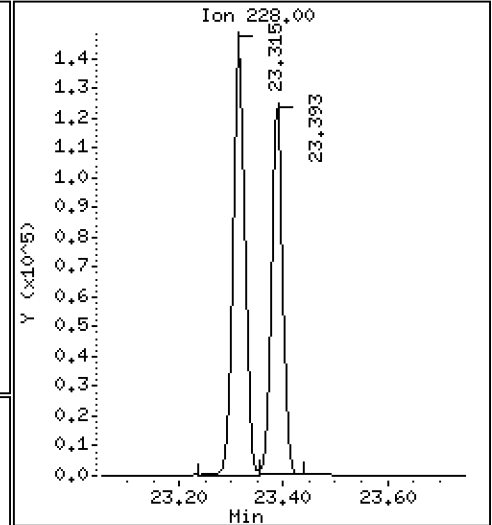
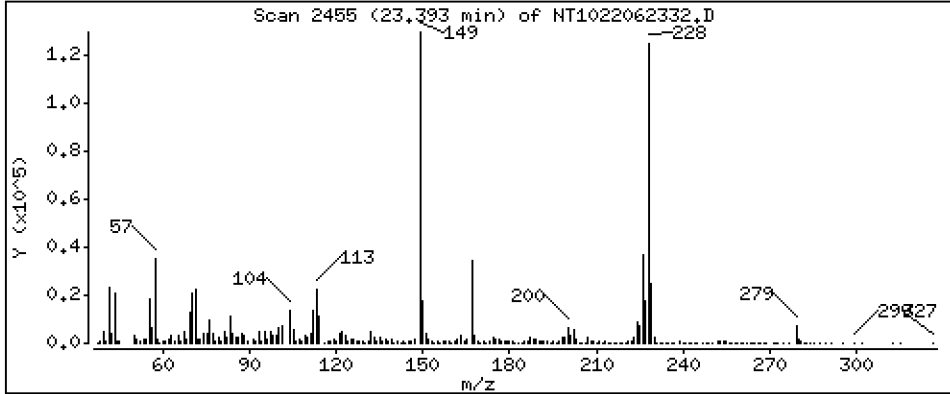
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 5,368 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

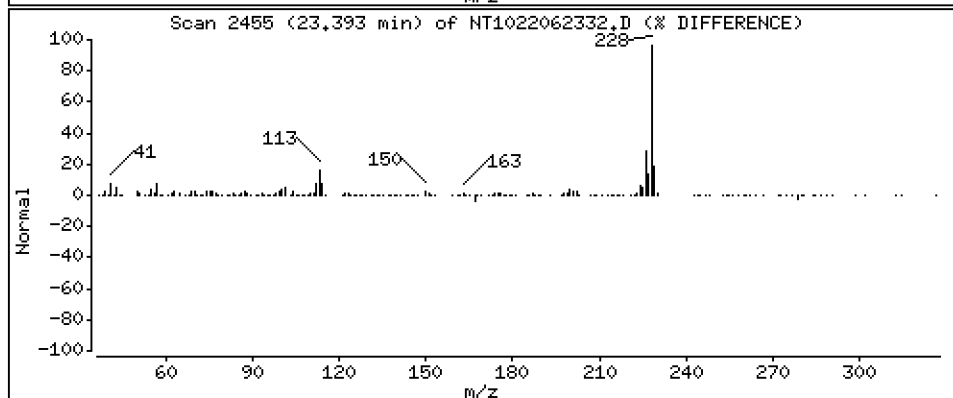
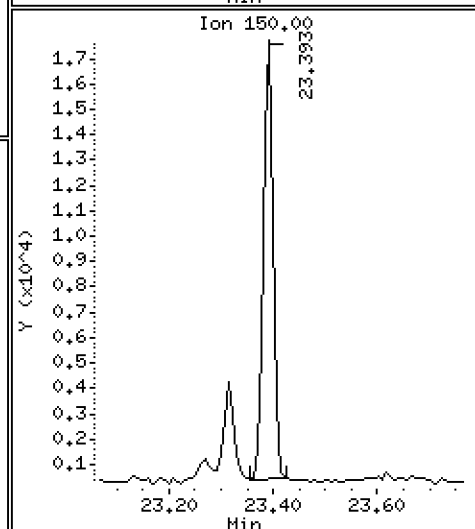
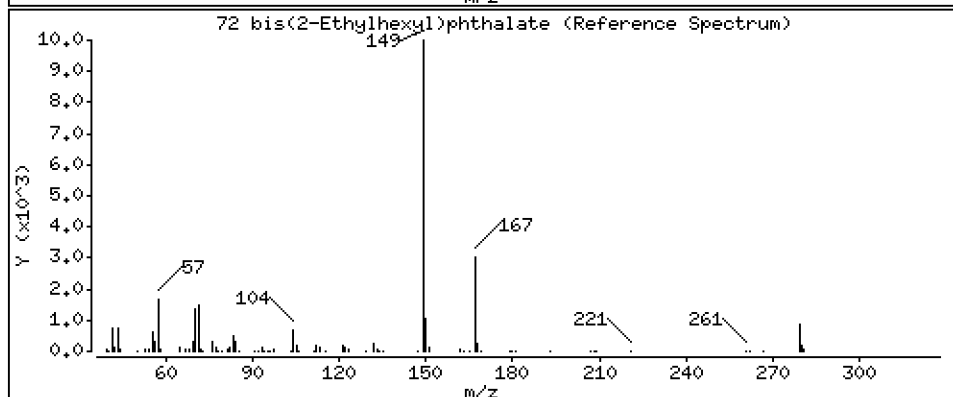
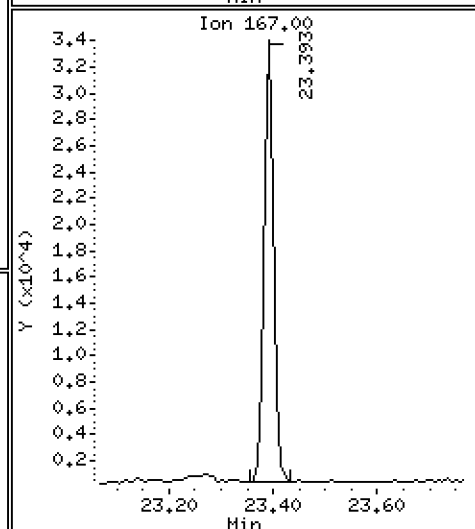
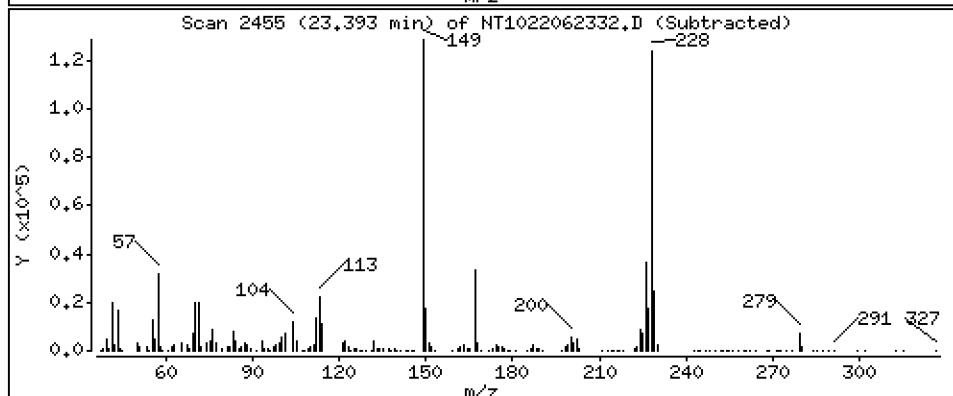
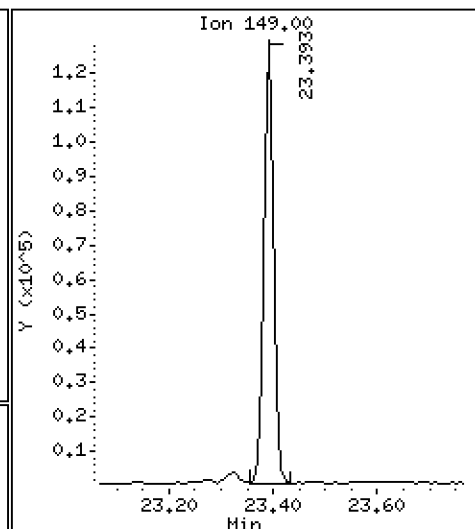
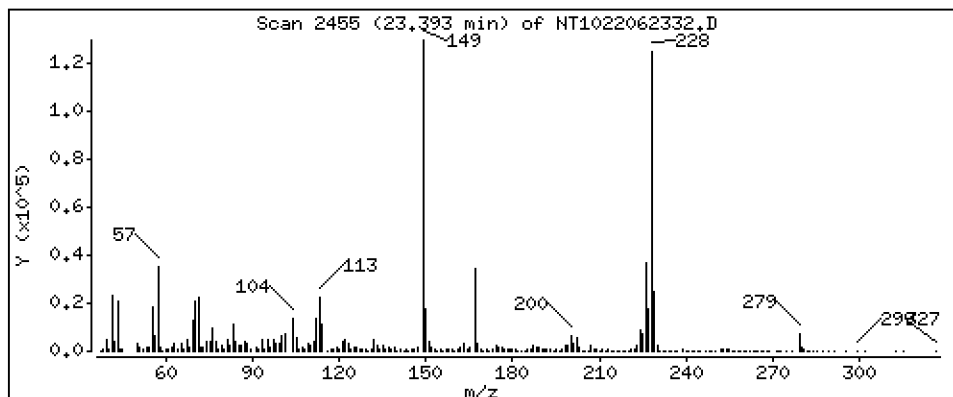
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 6,304 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

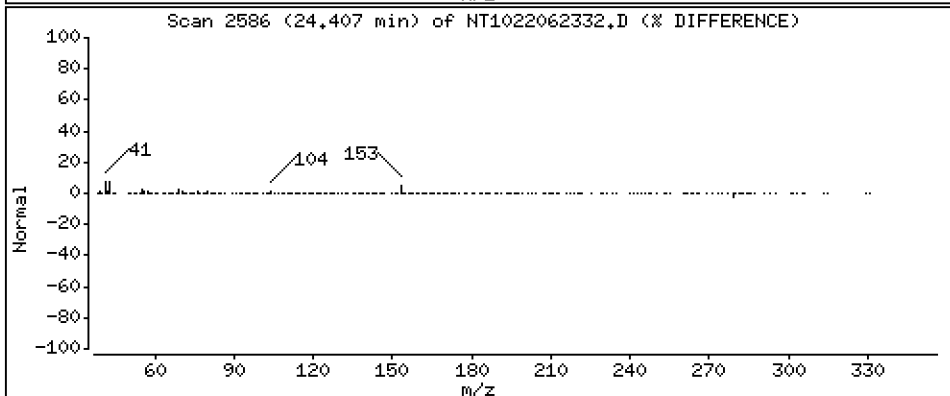
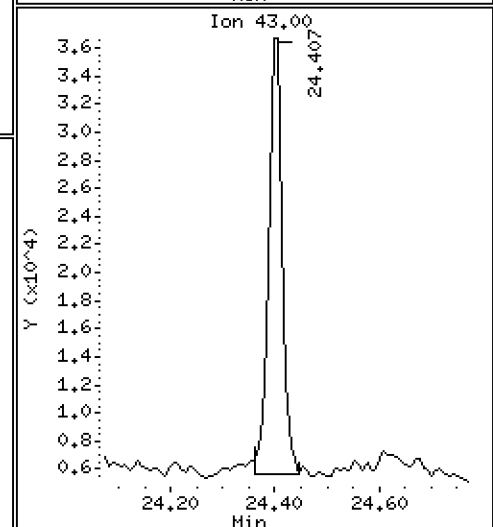
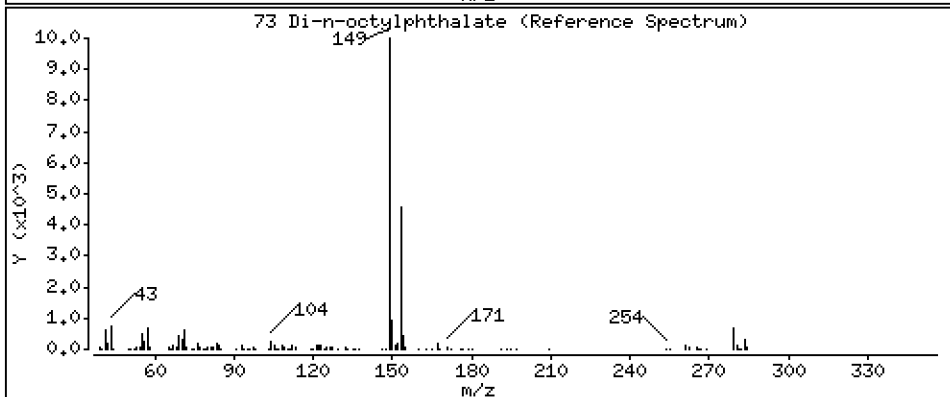
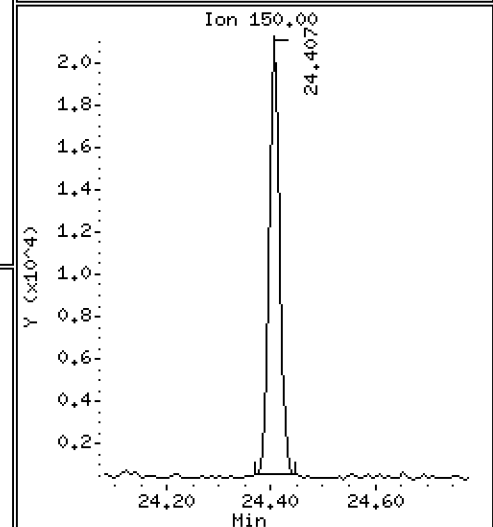
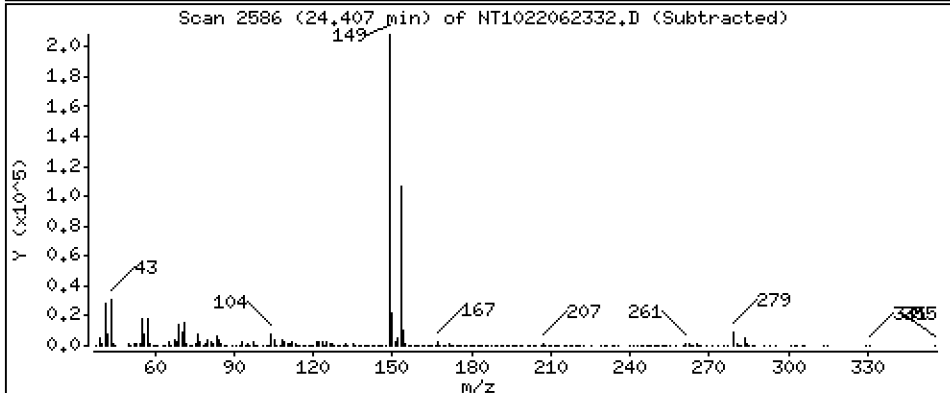
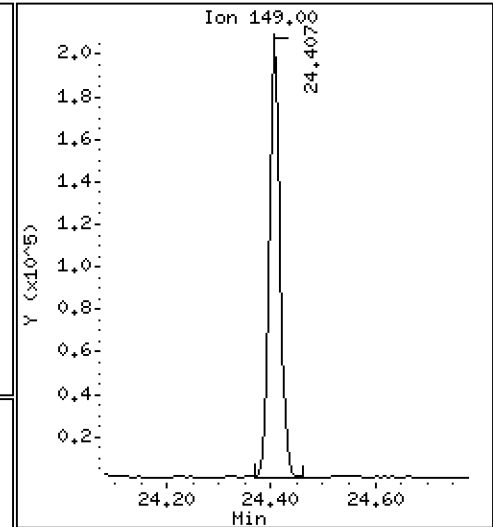
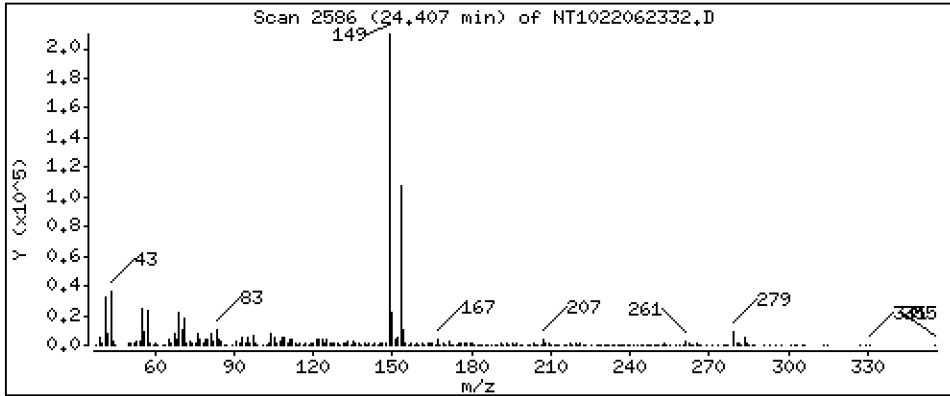
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,287 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

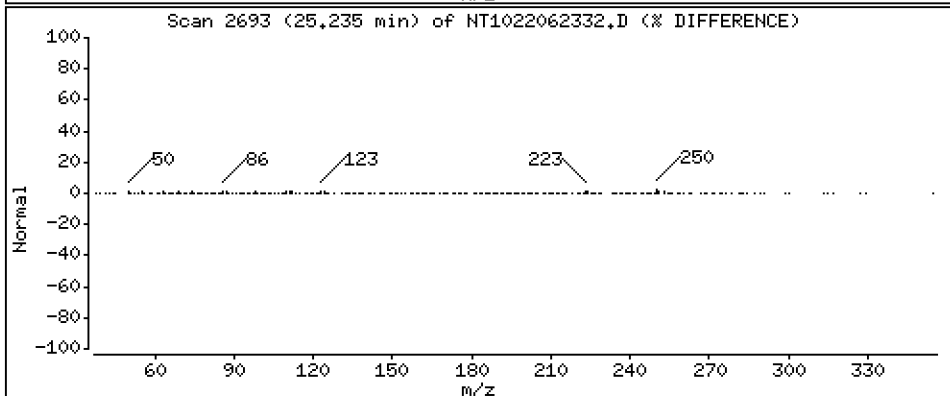
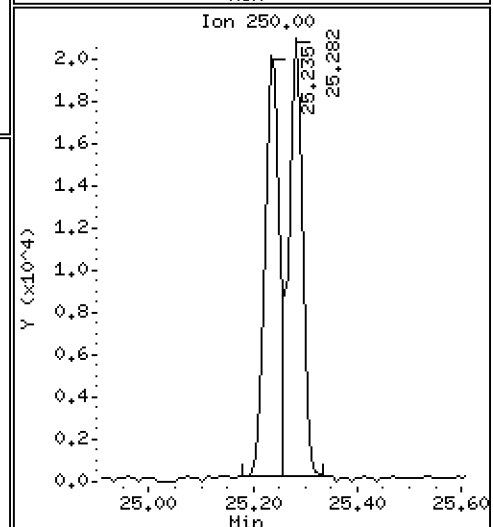
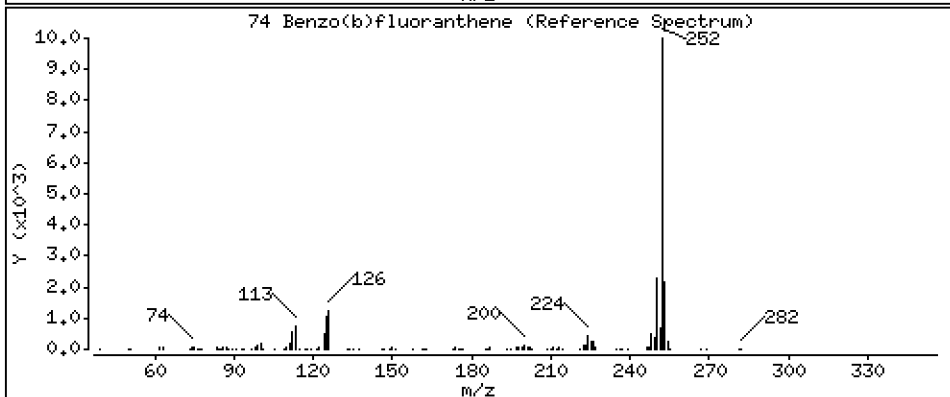
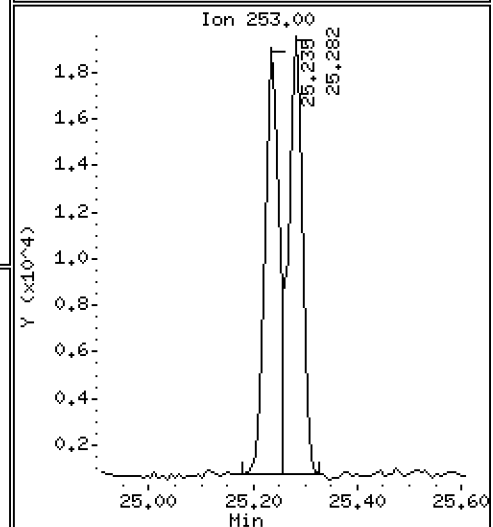
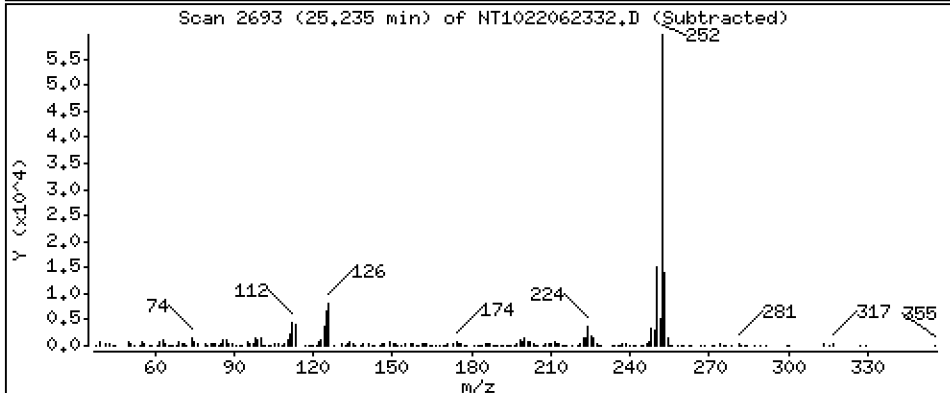
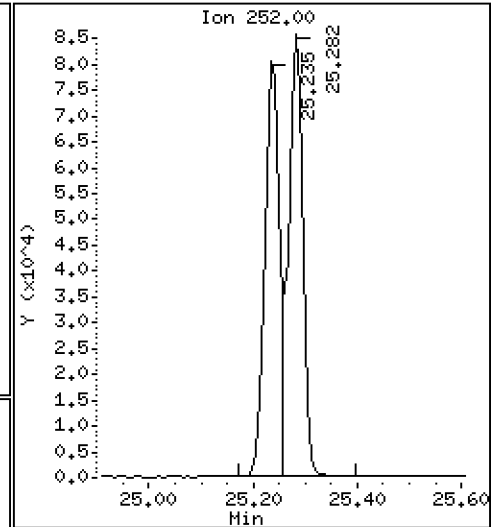
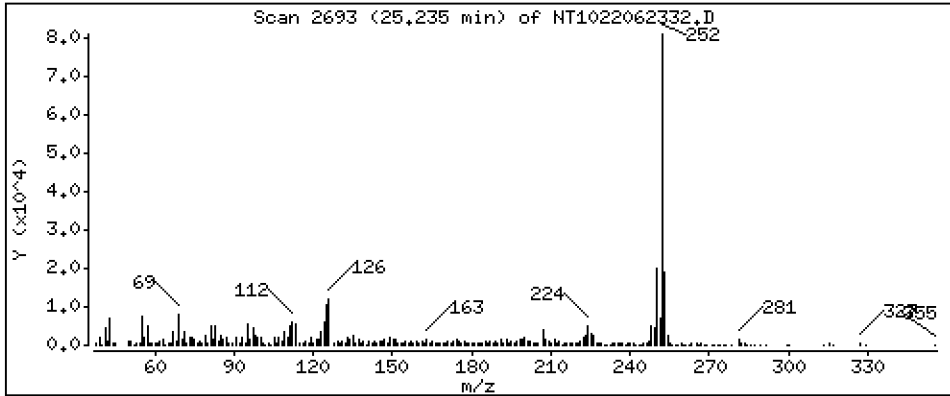
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,125 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

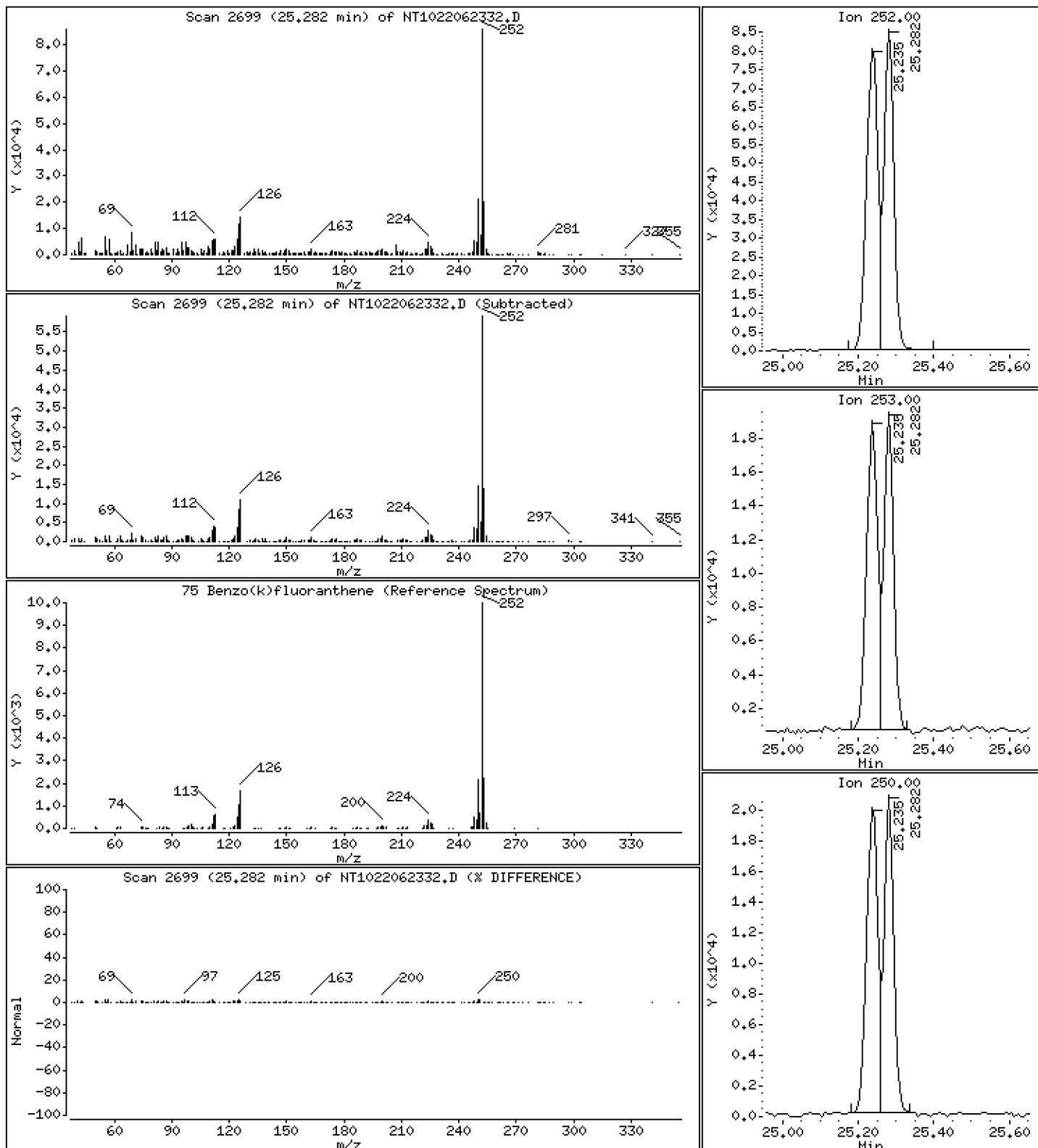
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,433 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

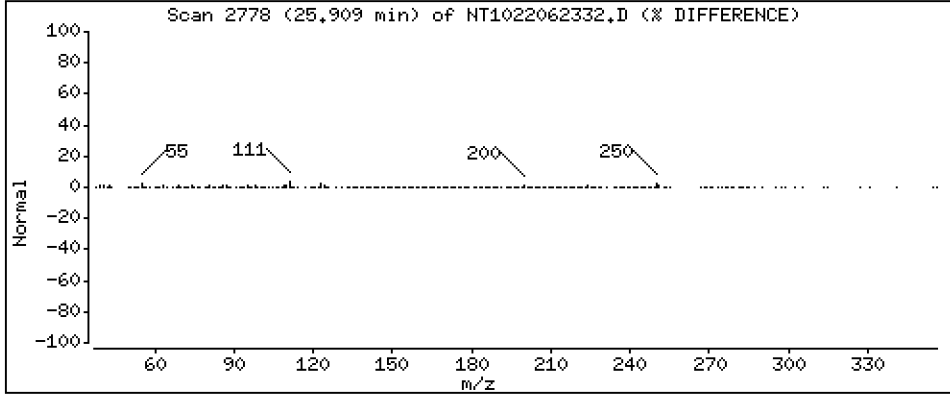
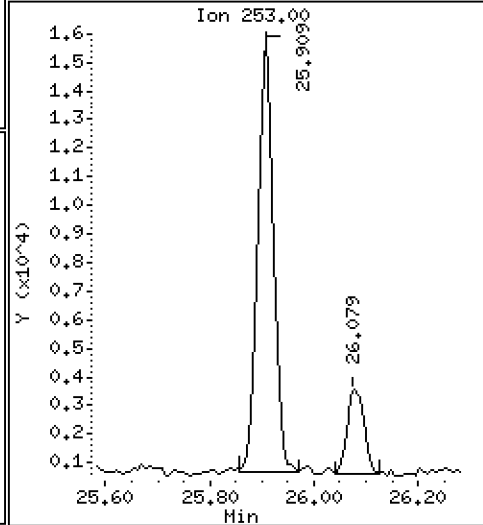
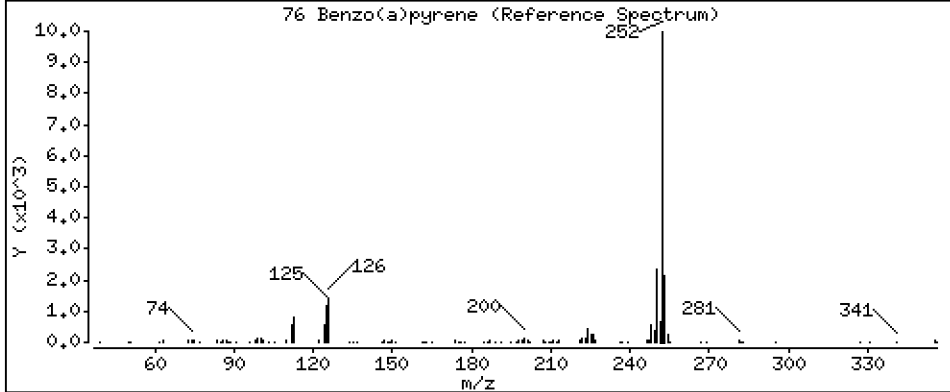
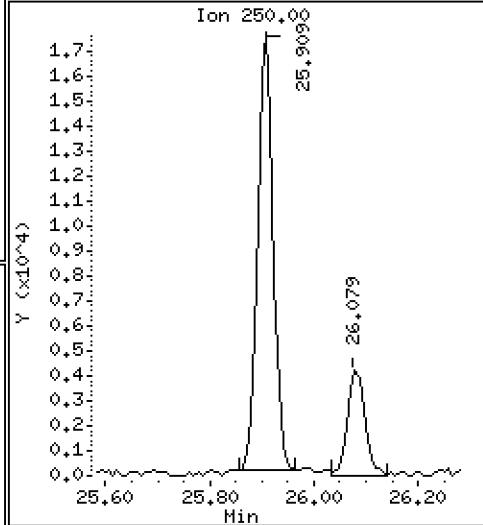
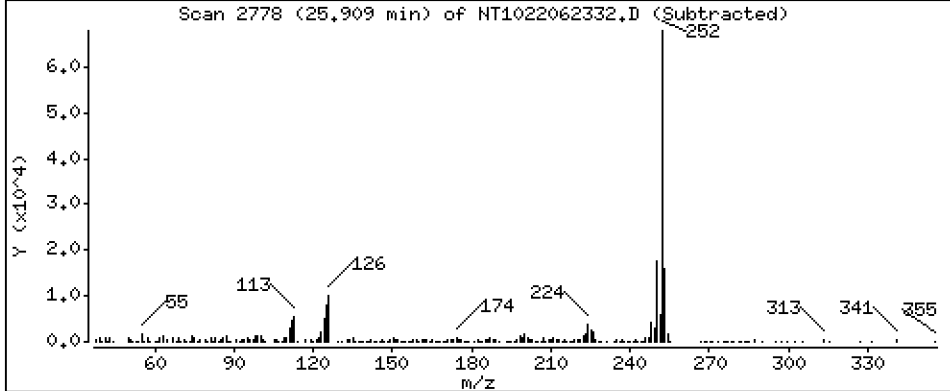
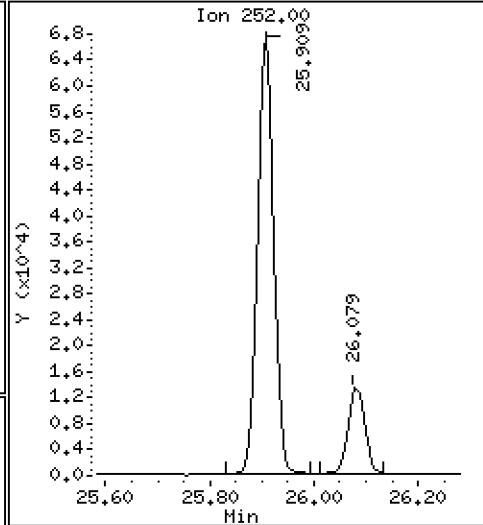
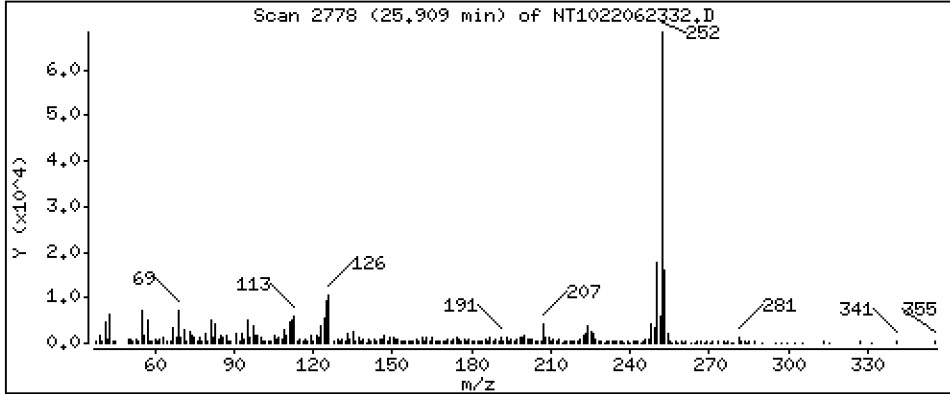
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,473 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

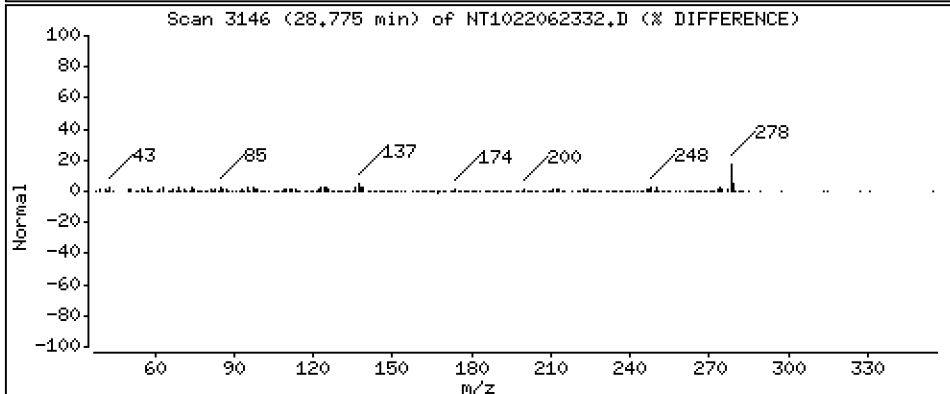
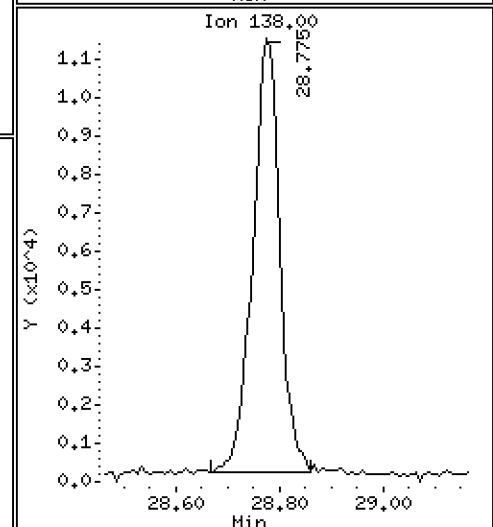
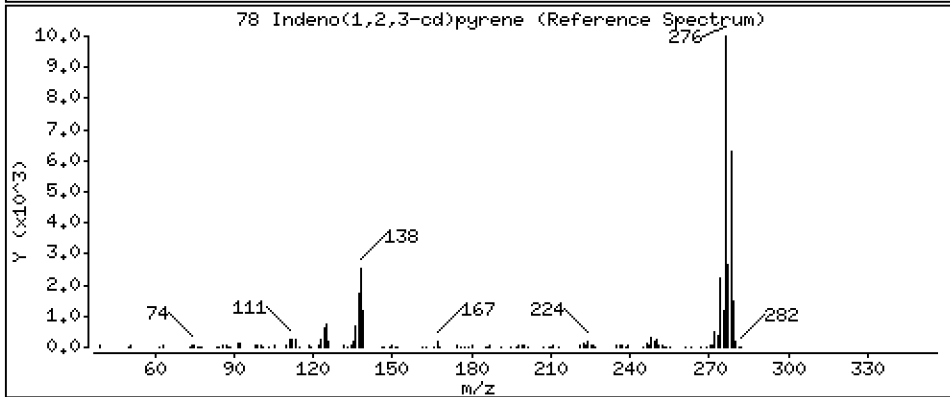
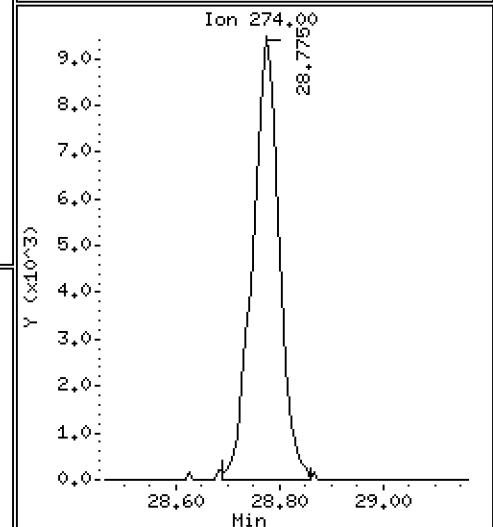
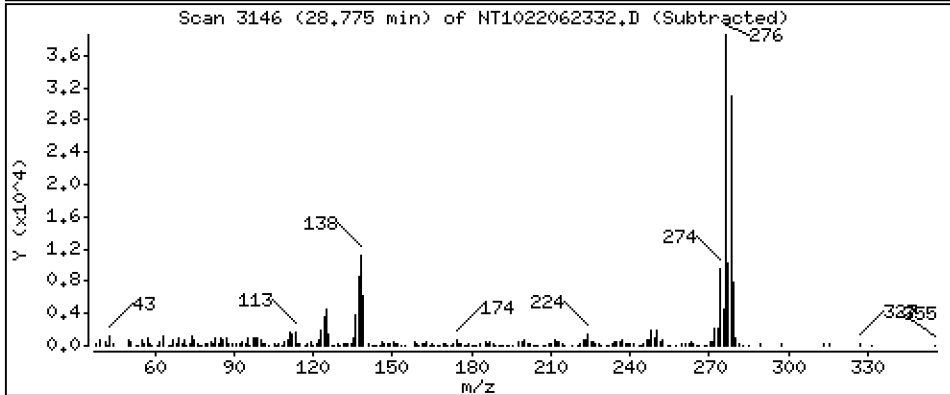
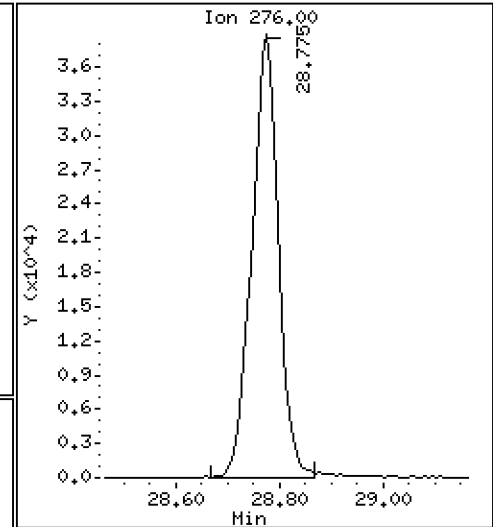
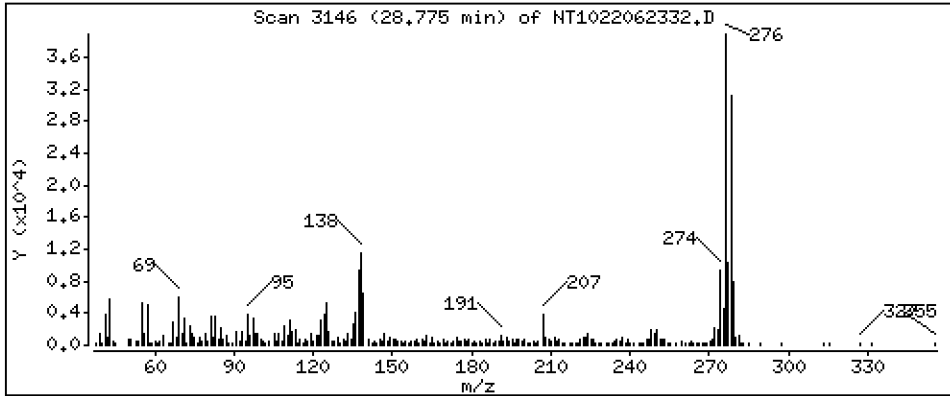
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 3,967 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

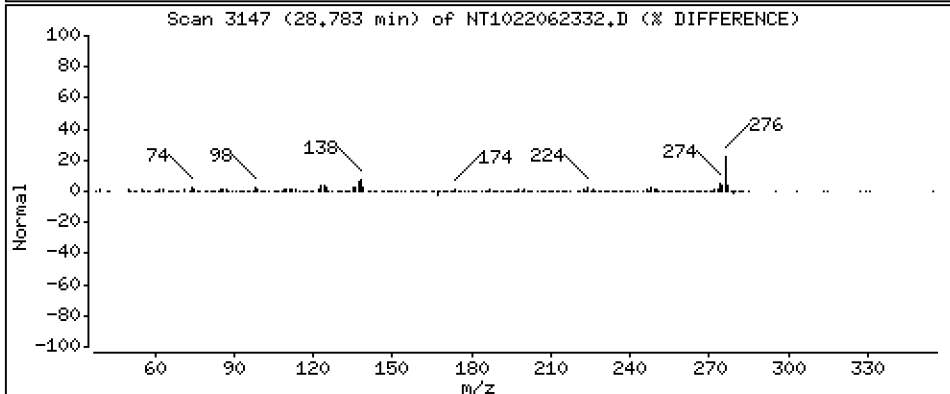
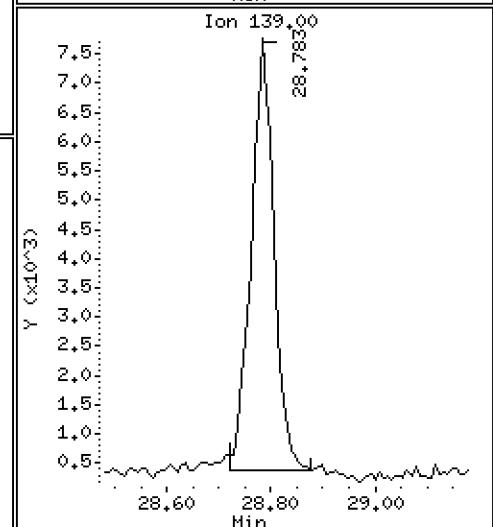
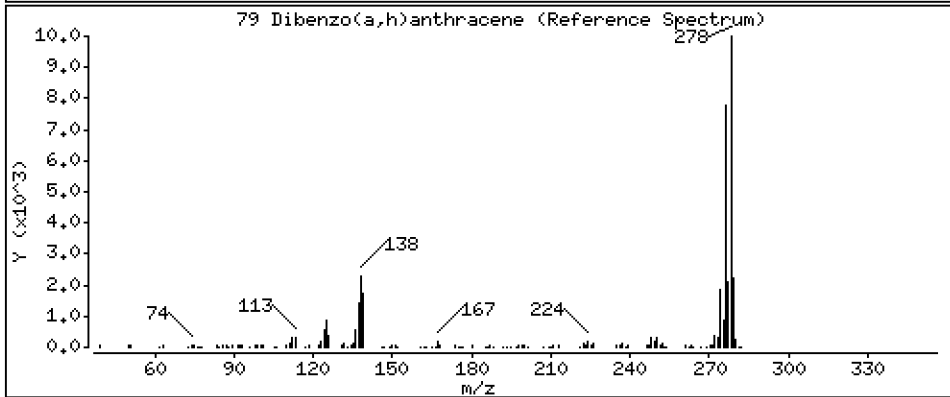
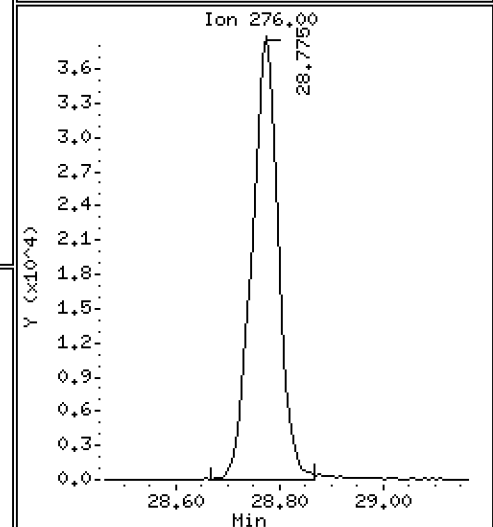
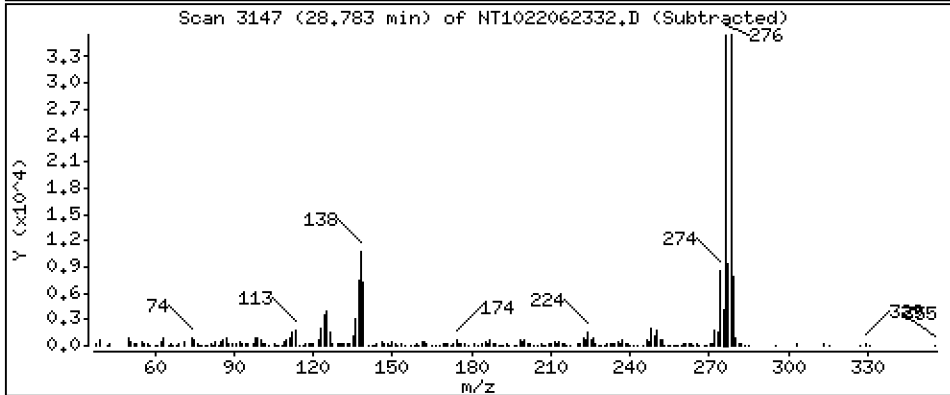
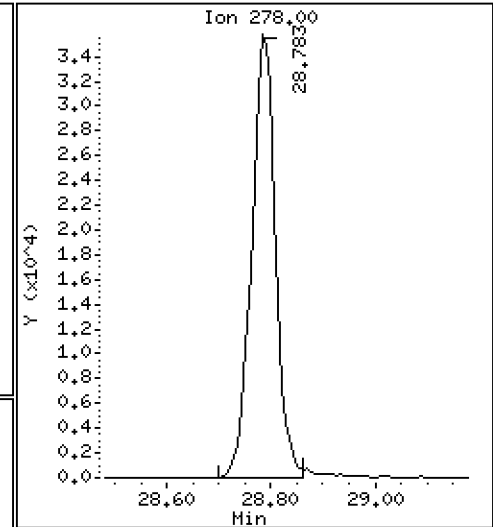
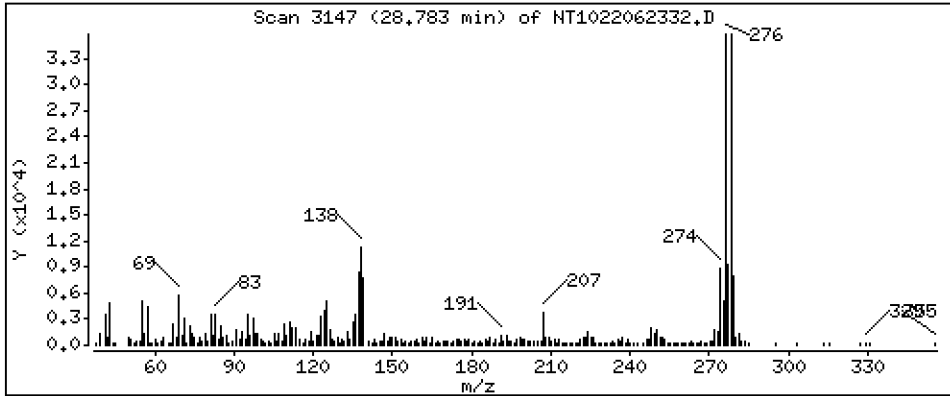
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,301 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

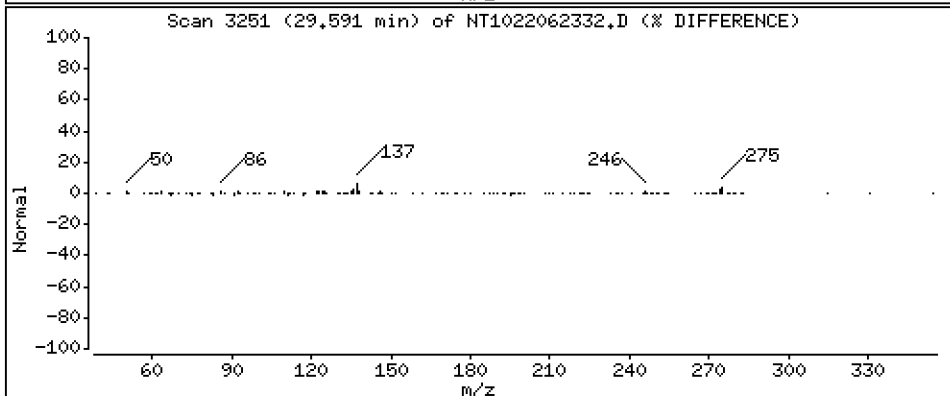
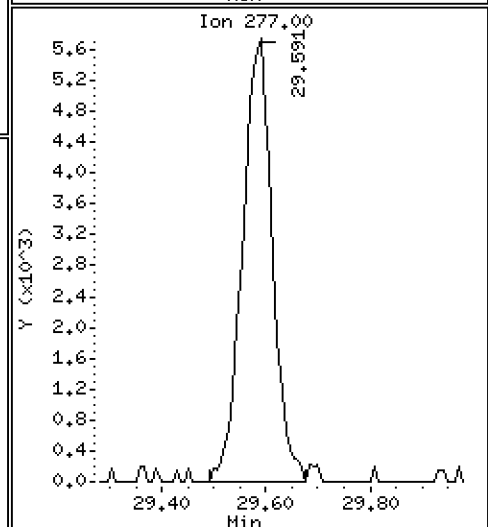
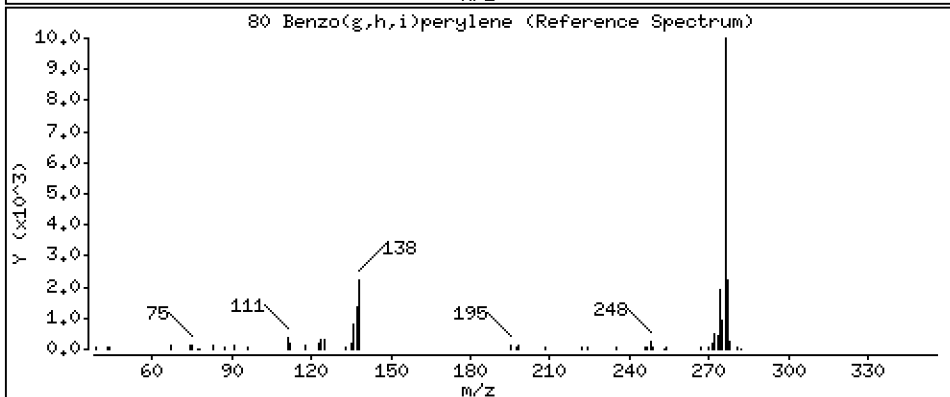
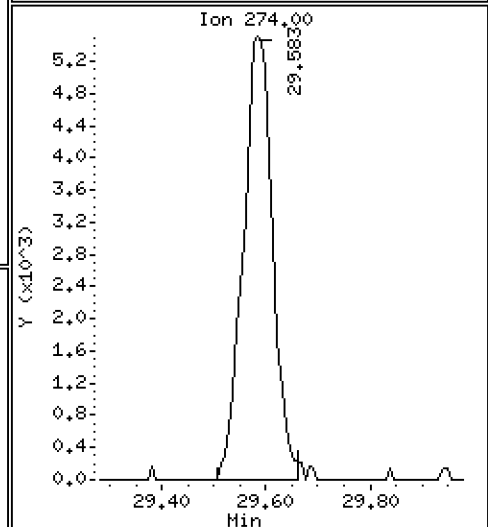
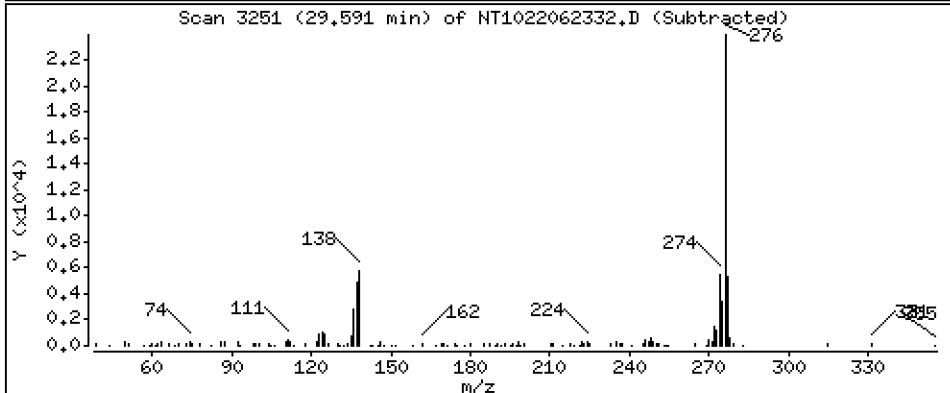
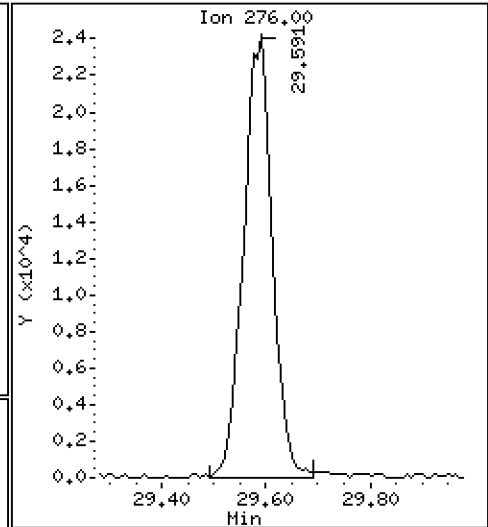
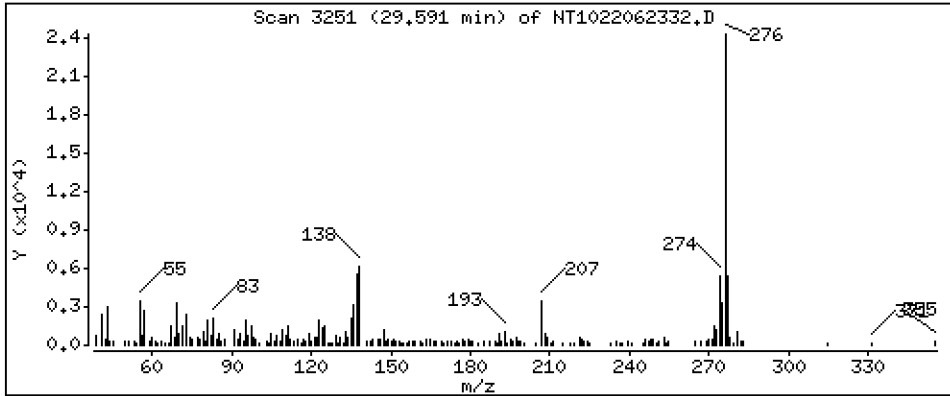
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 3,358 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

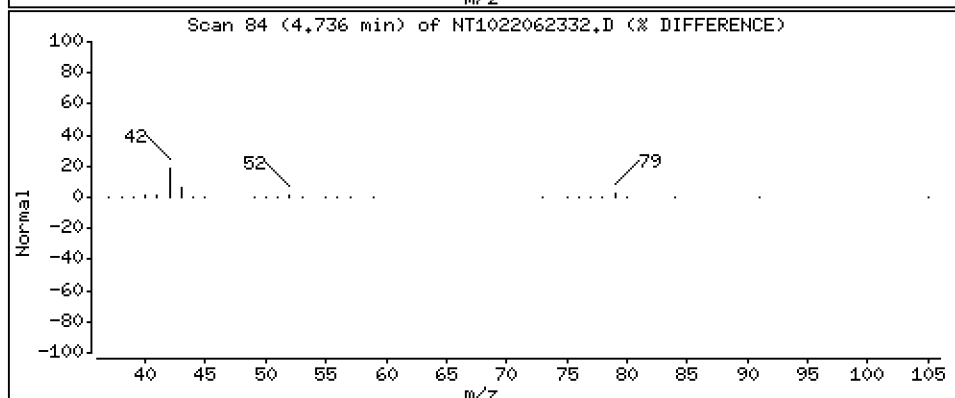
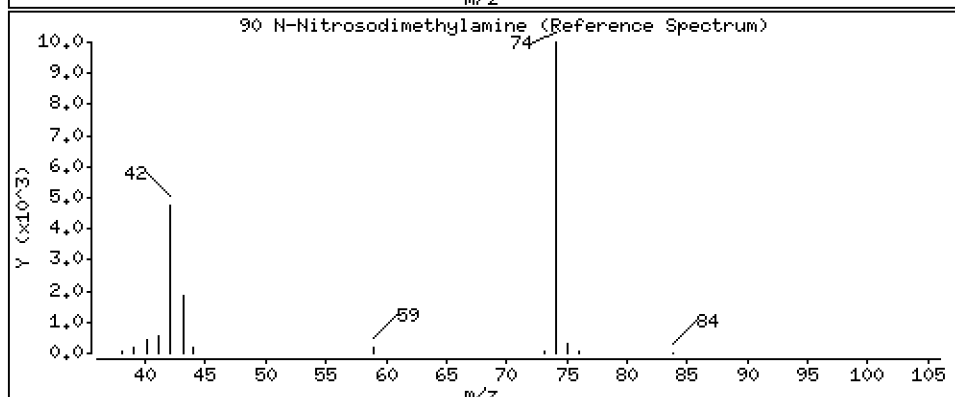
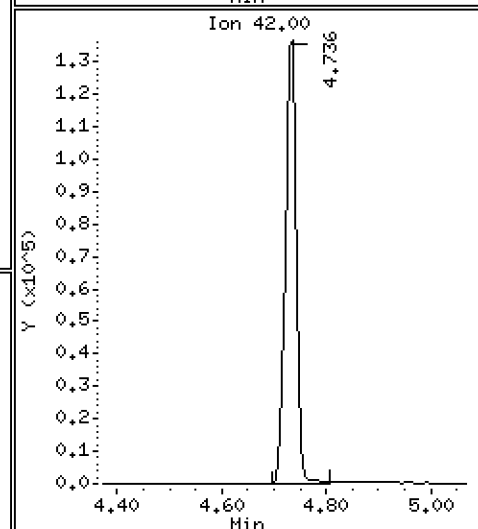
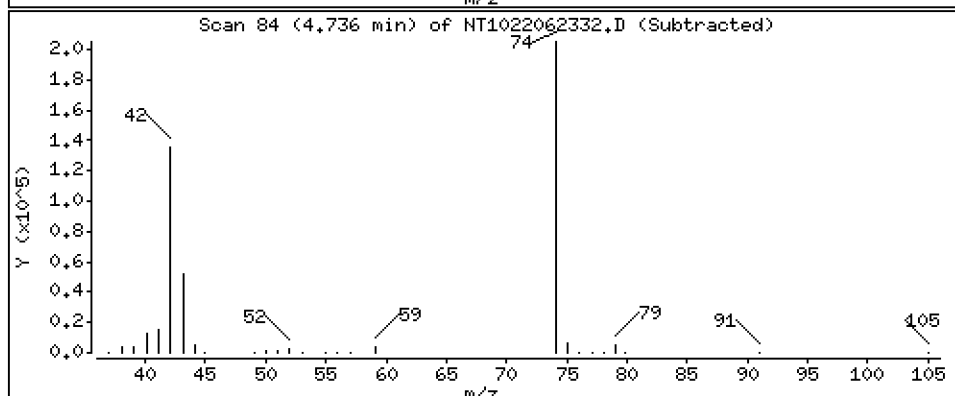
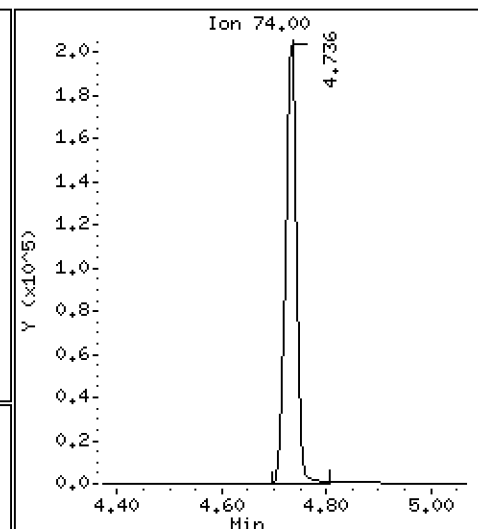
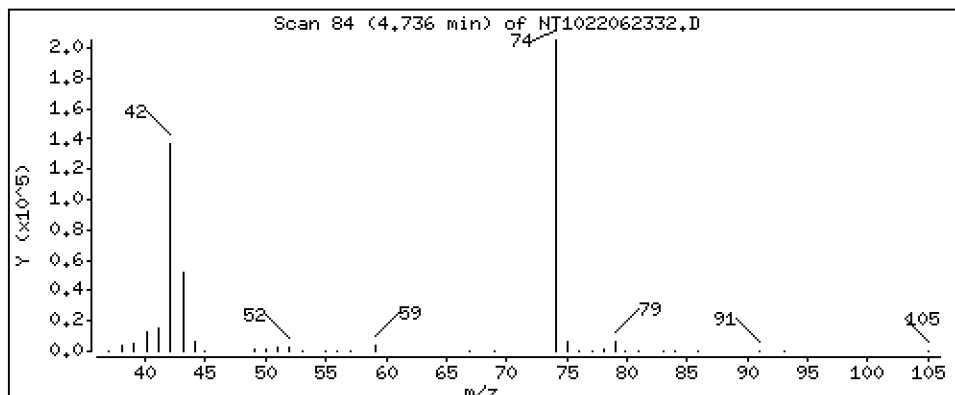
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 8,104 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

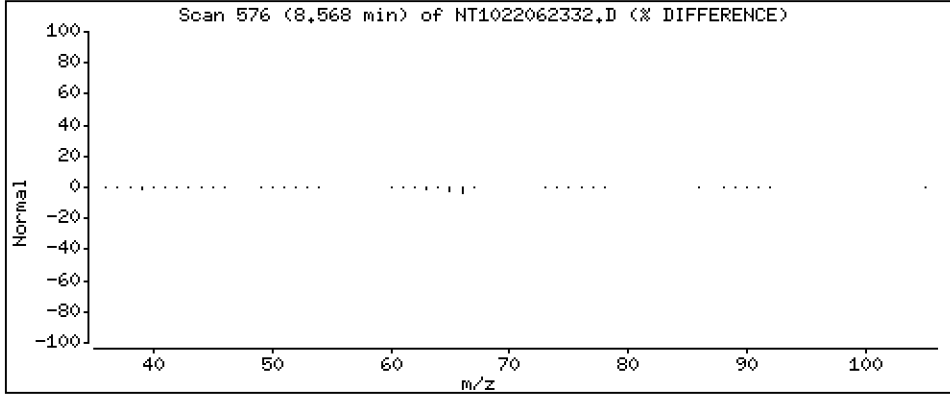
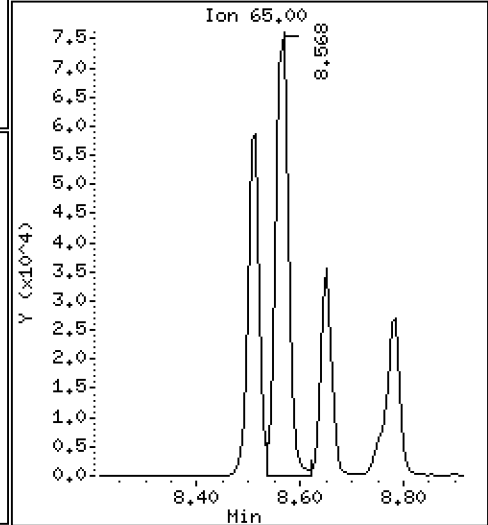
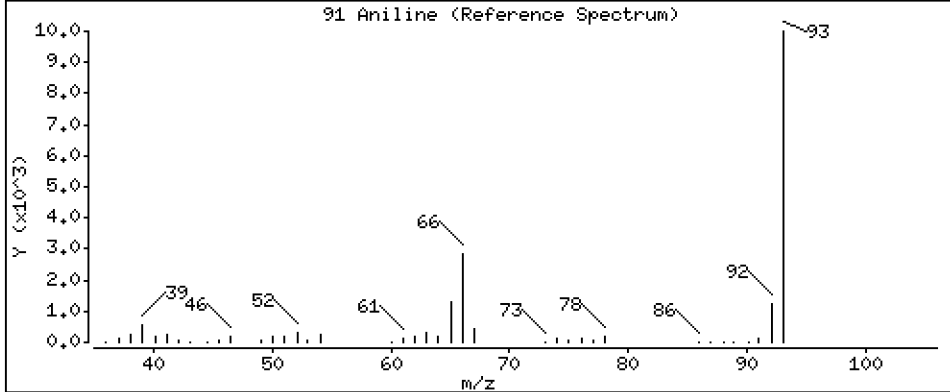
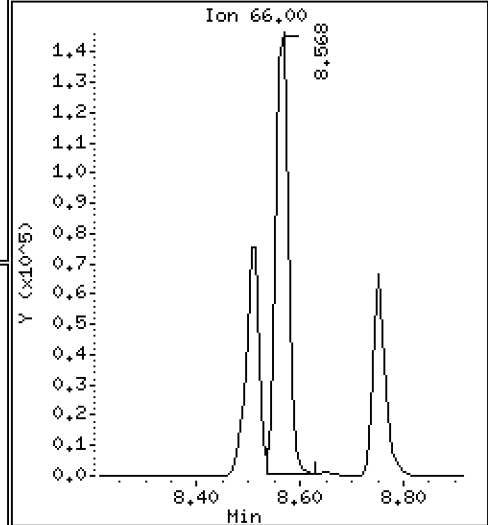
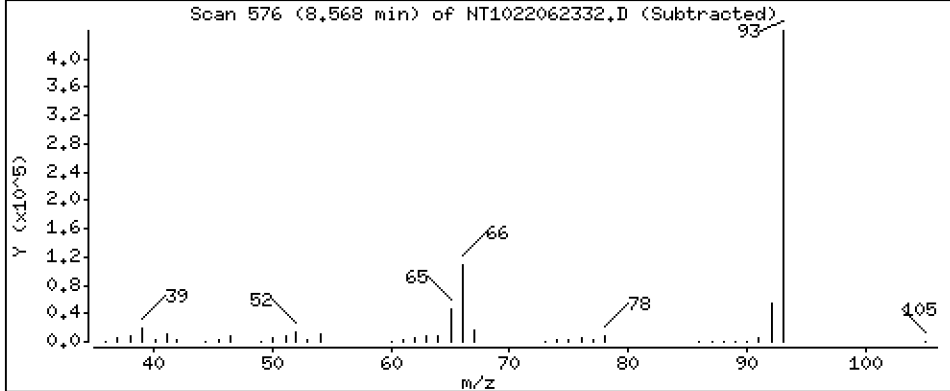
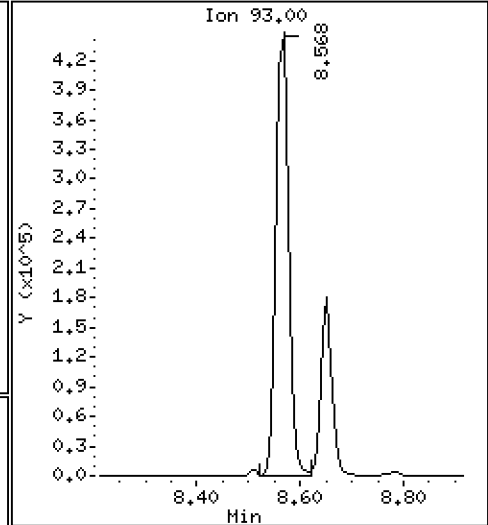
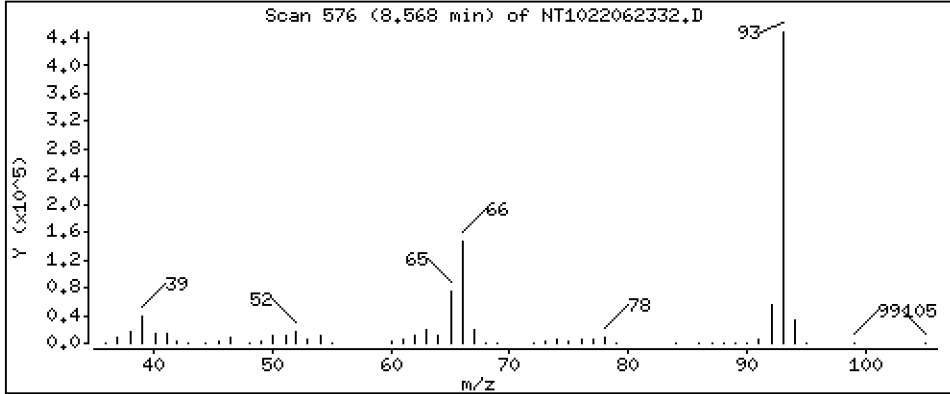
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 9,738 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

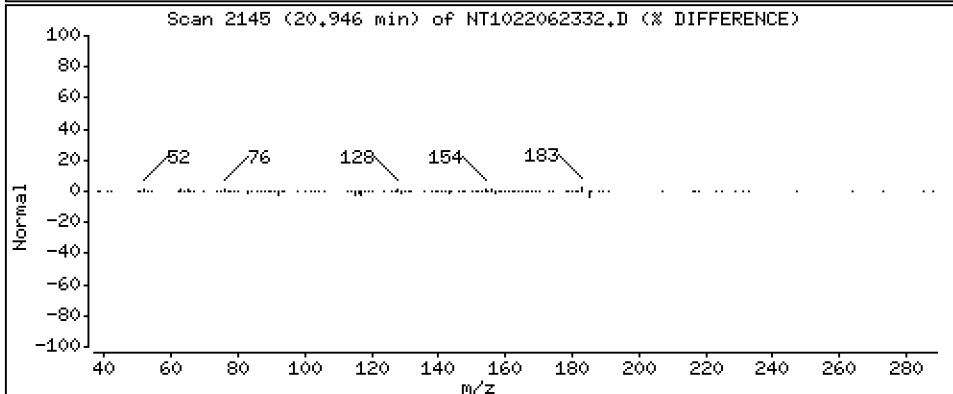
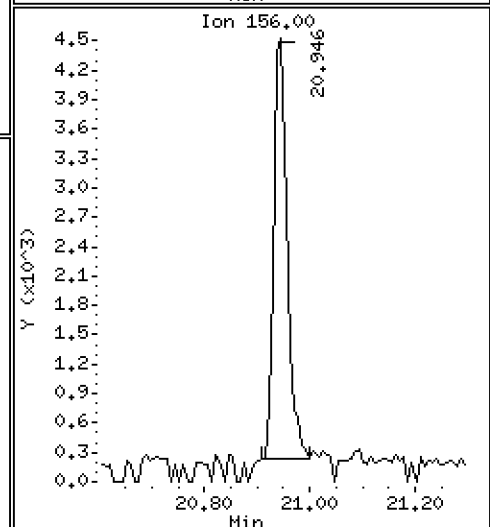
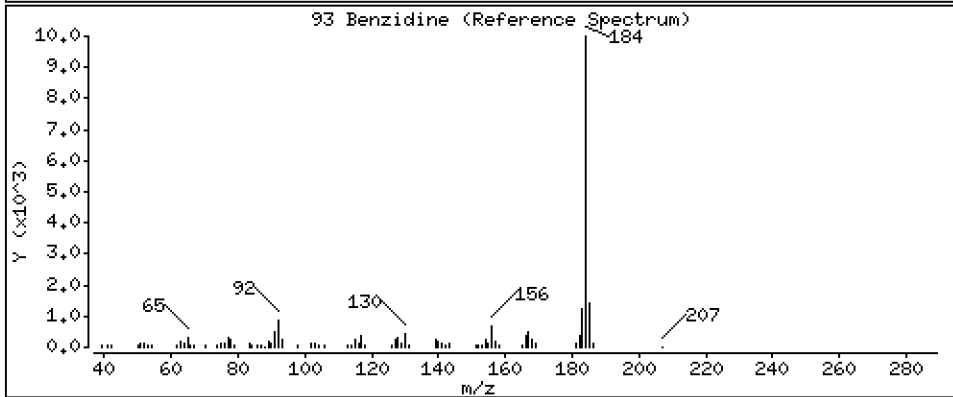
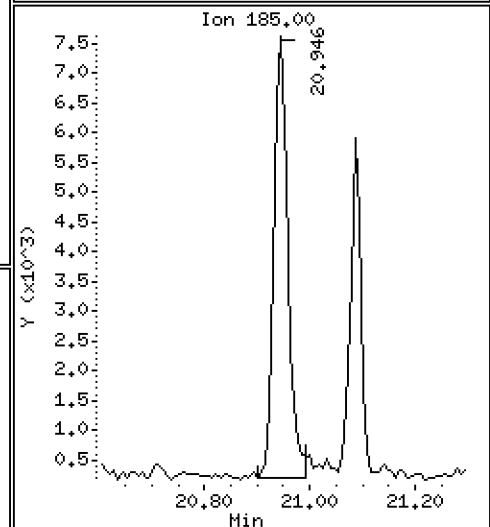
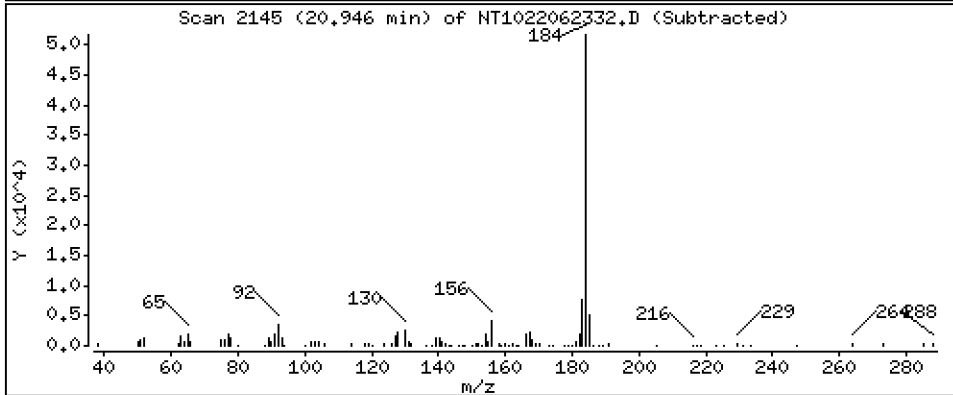
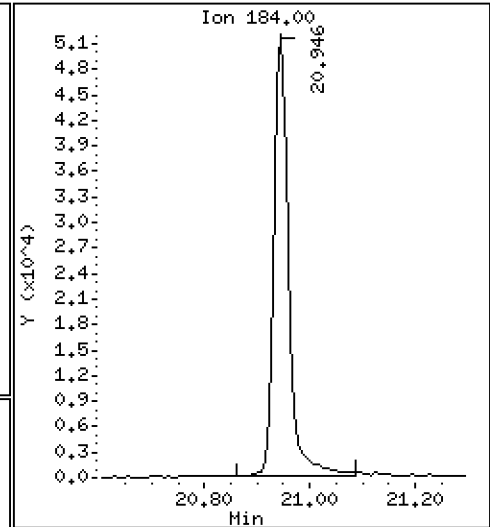
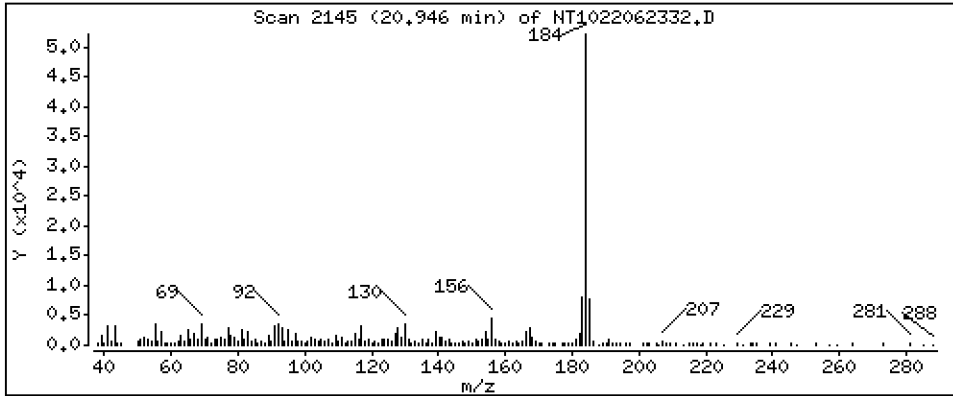
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 5,779 ug/mL

93 Benzidine



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

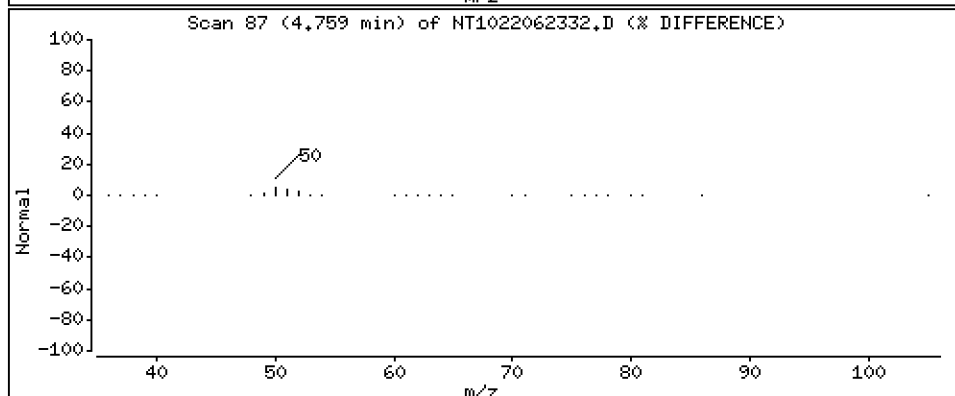
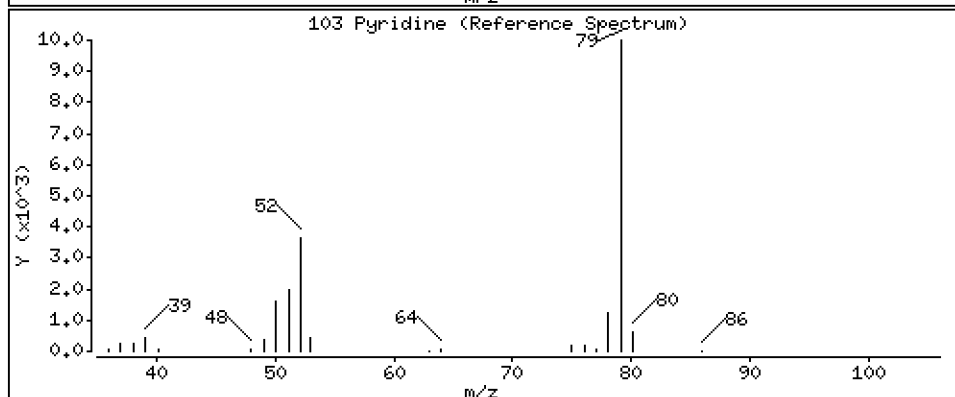
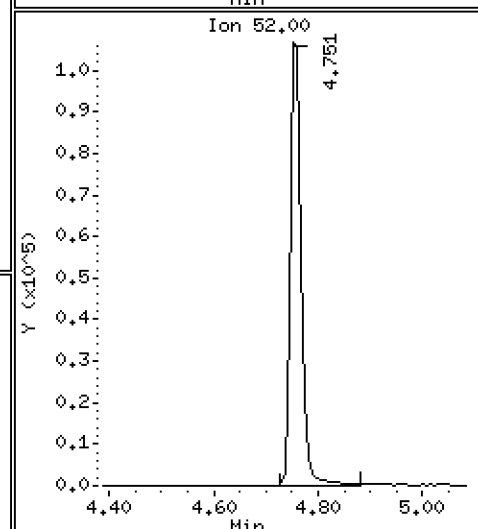
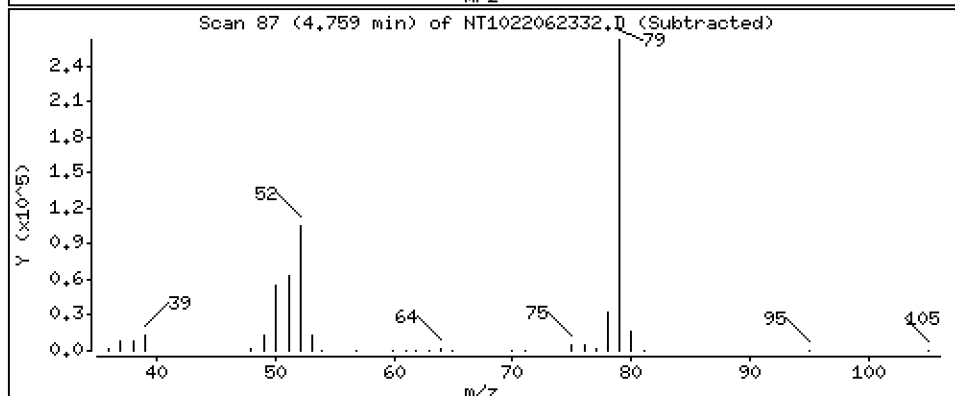
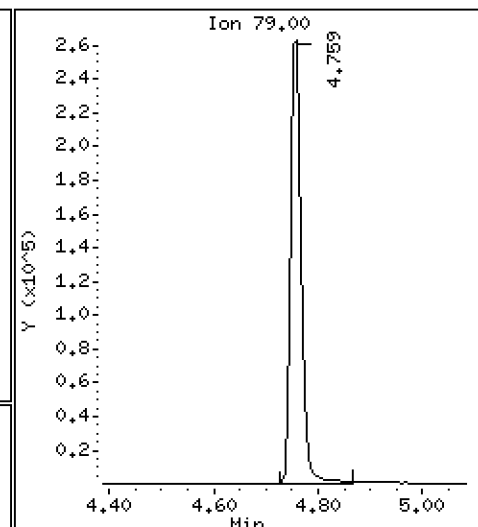
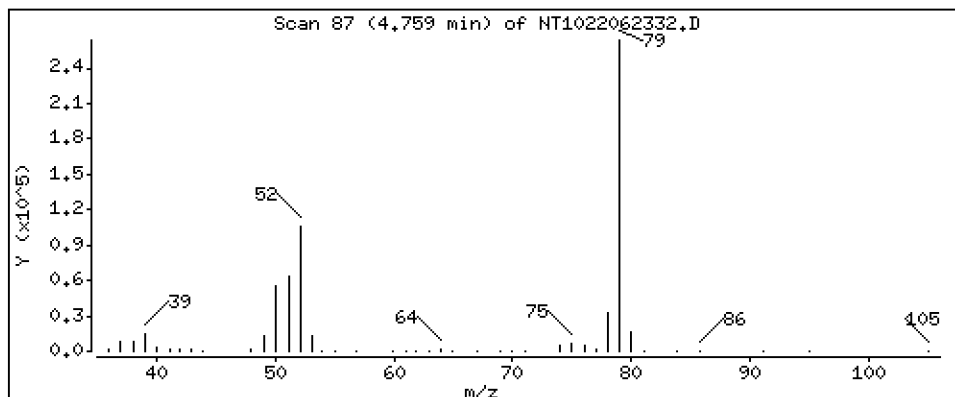
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 3.775 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

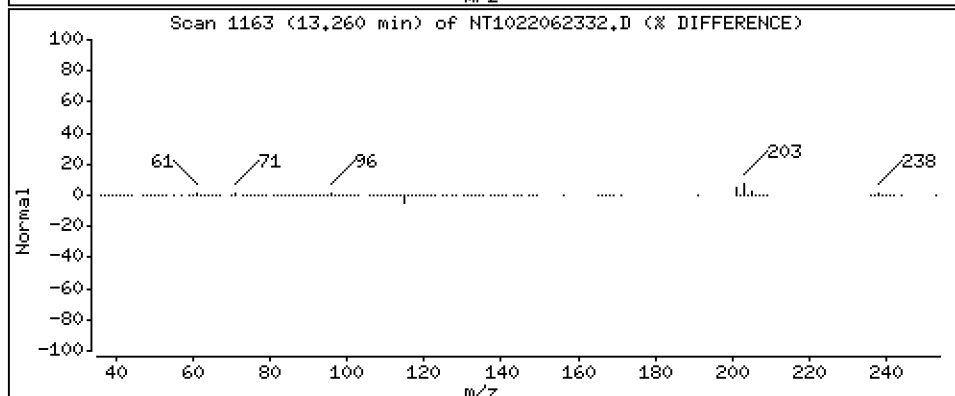
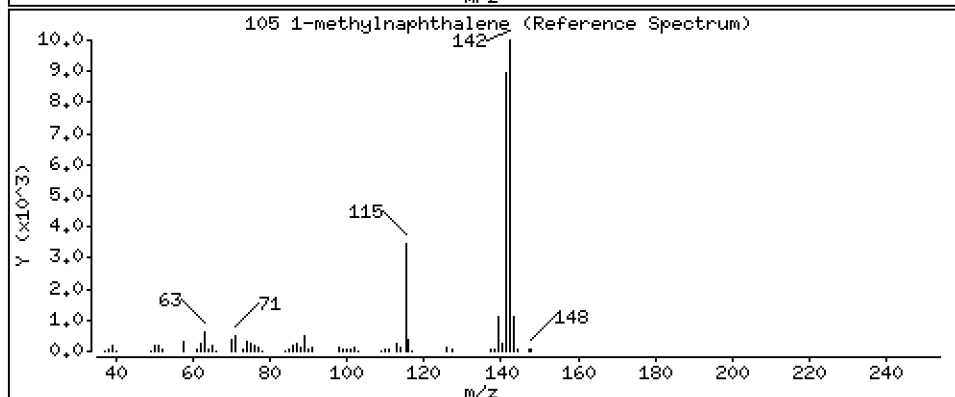
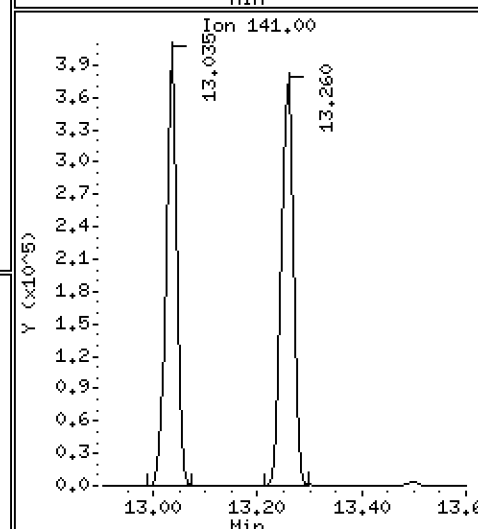
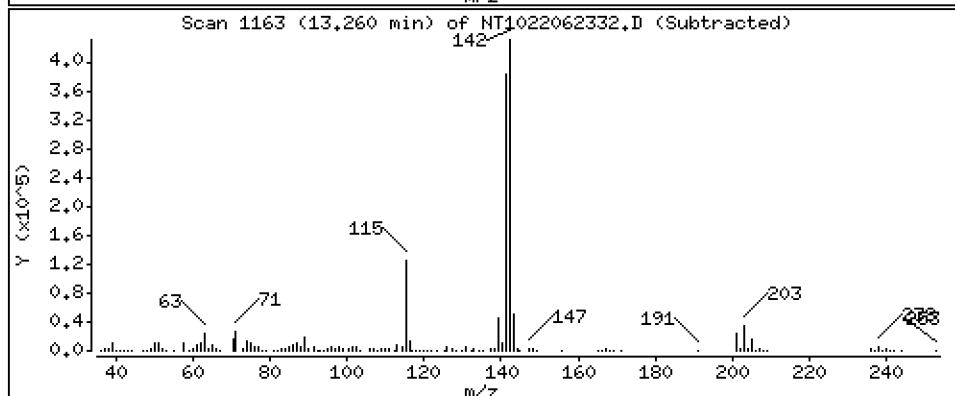
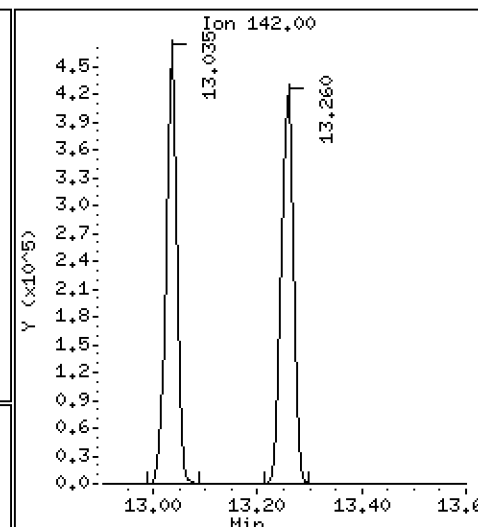
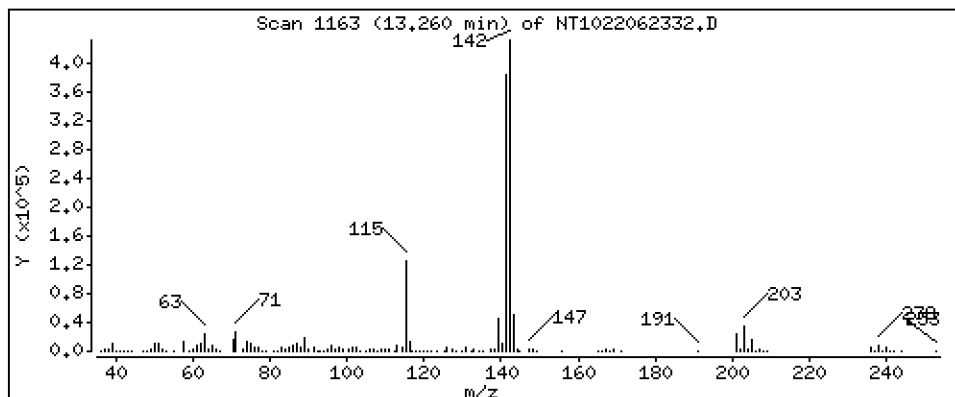
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,288 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

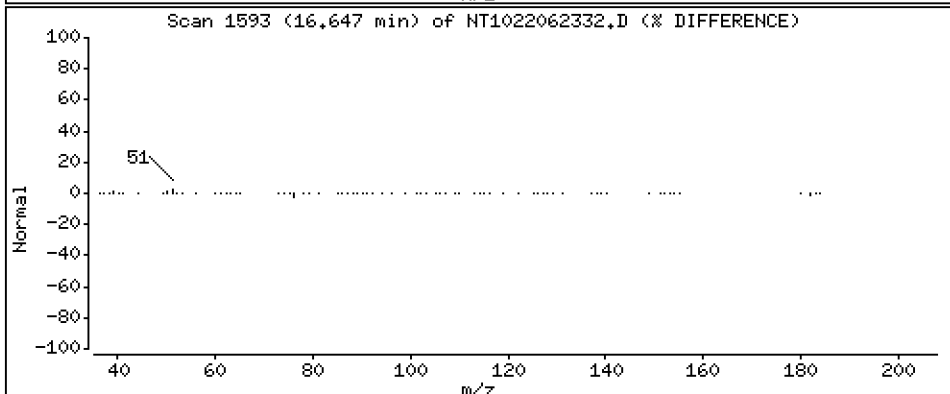
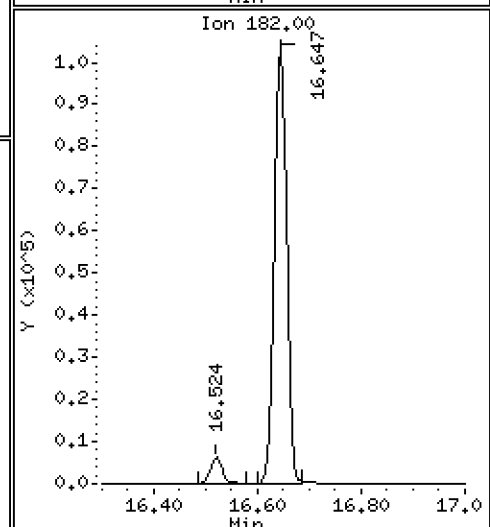
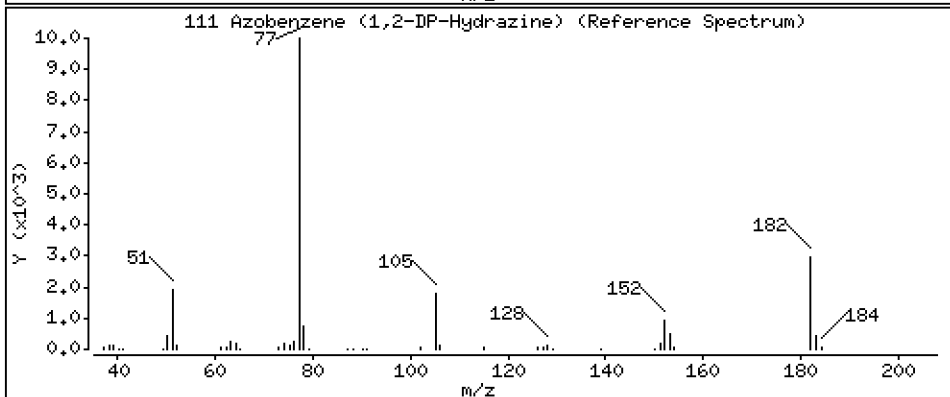
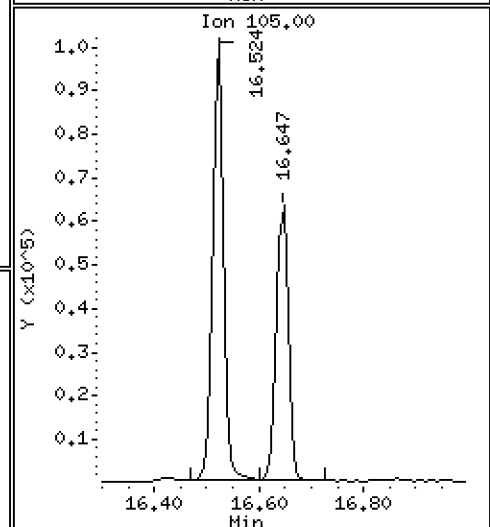
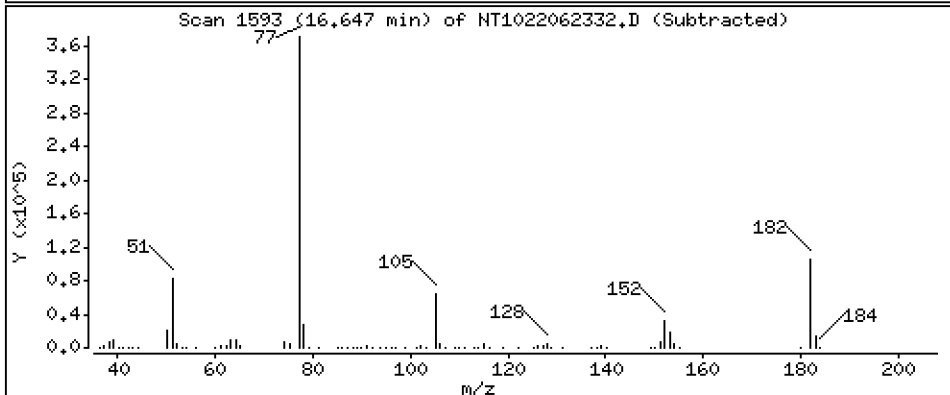
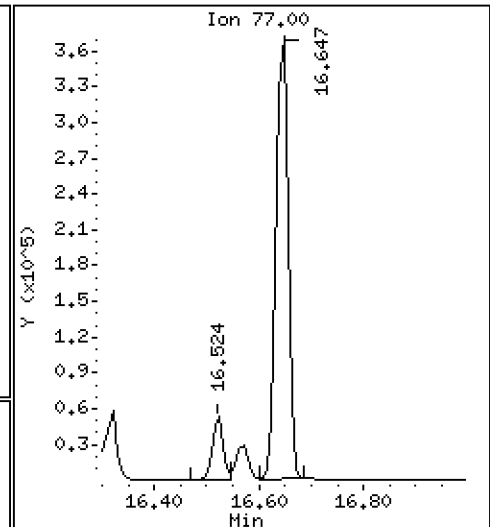
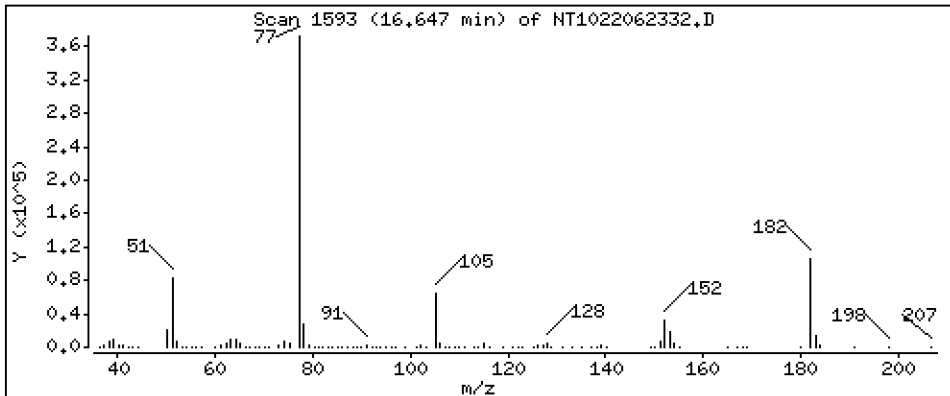
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,933 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

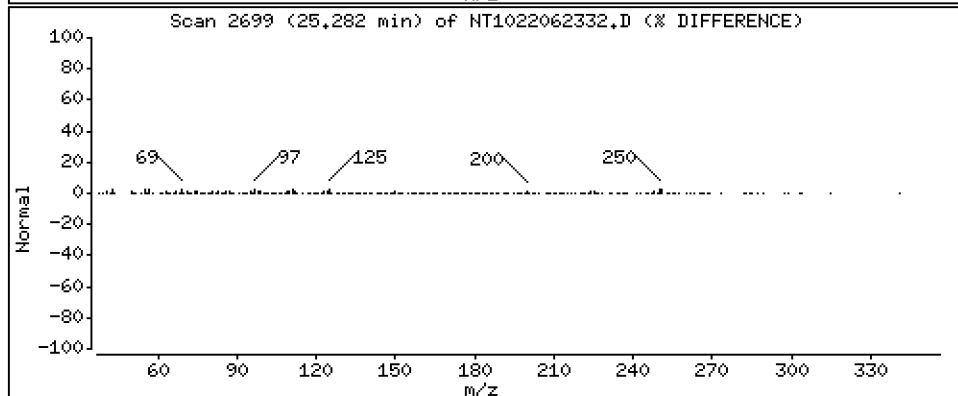
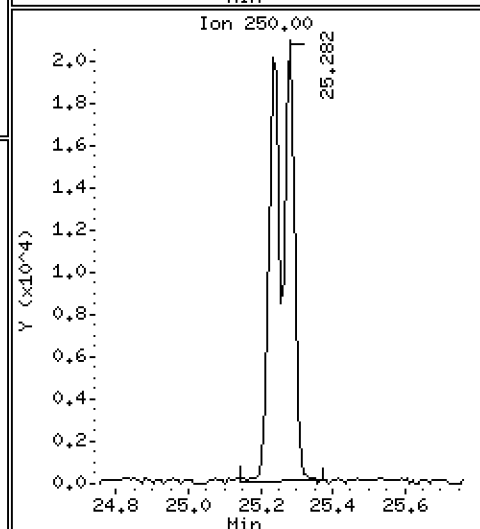
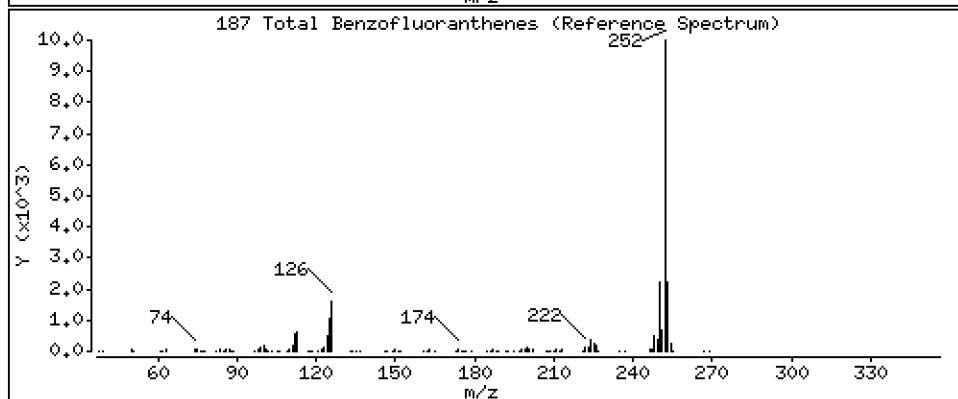
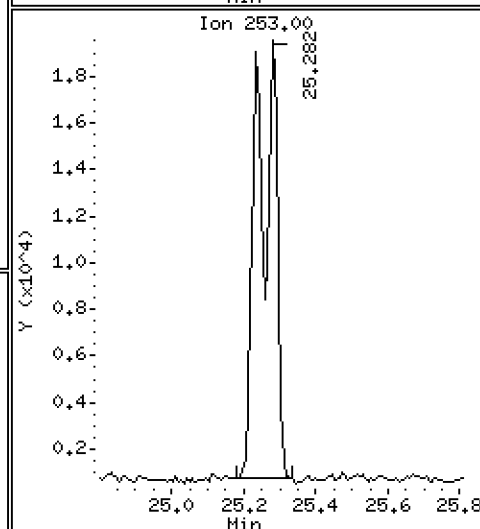
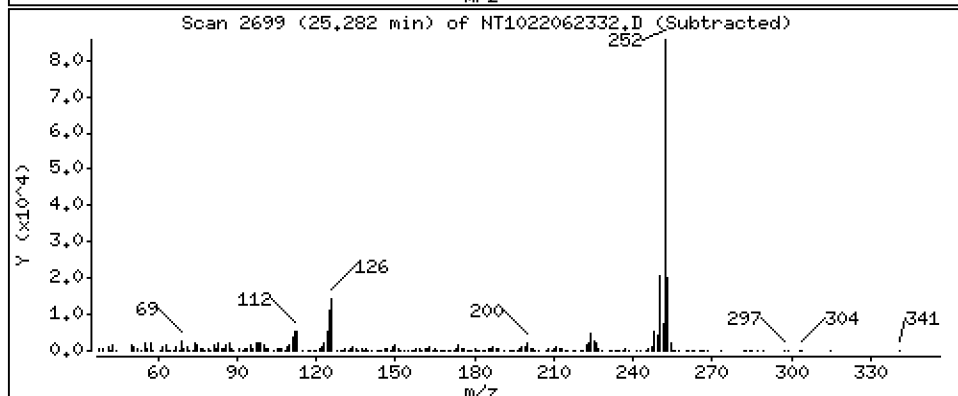
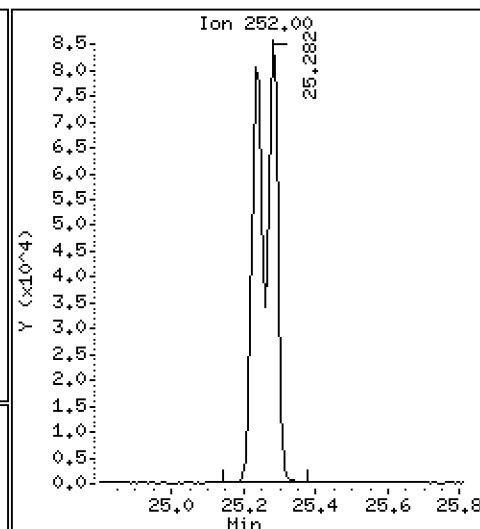
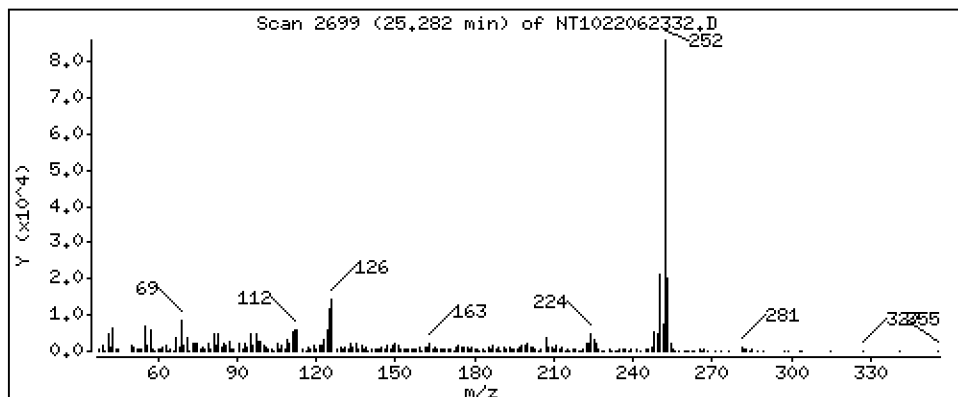
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 8,577 ug/mL



Date : 24-JUN-2022 04:54

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-CCV1

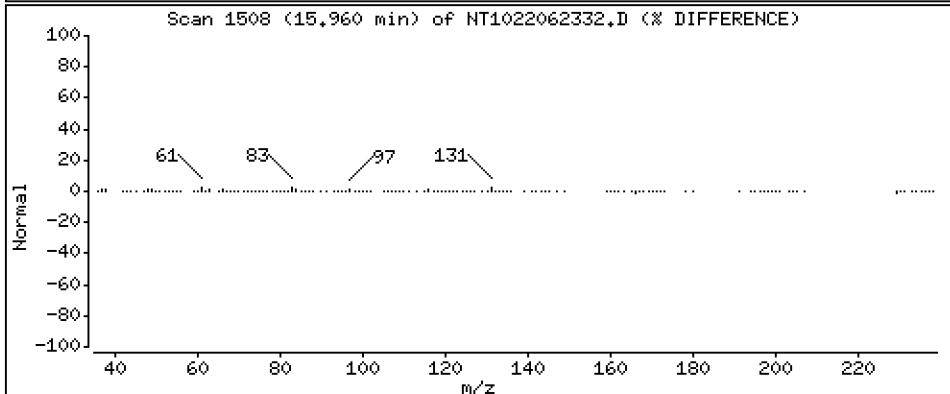
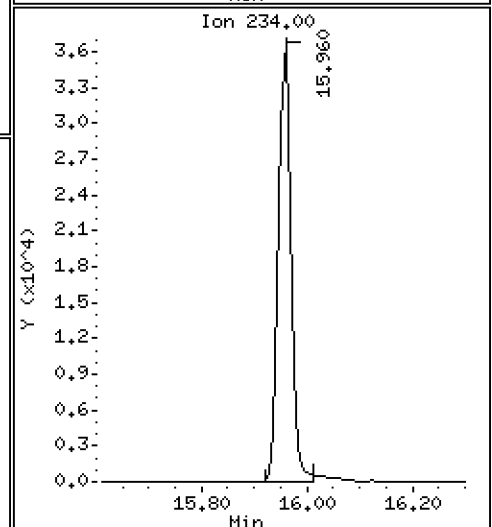
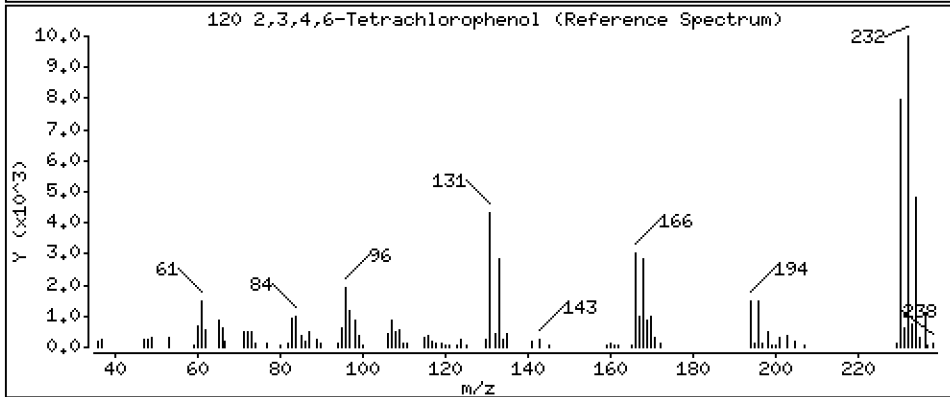
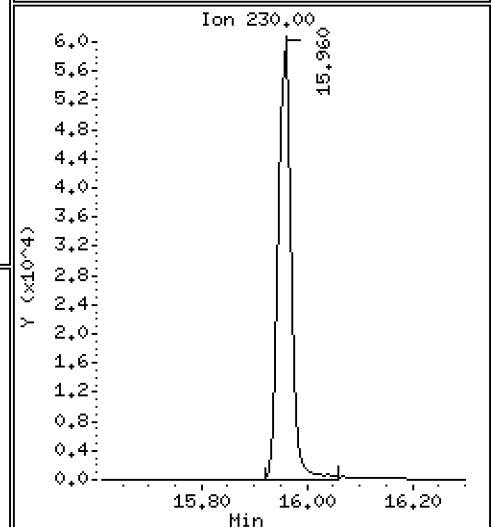
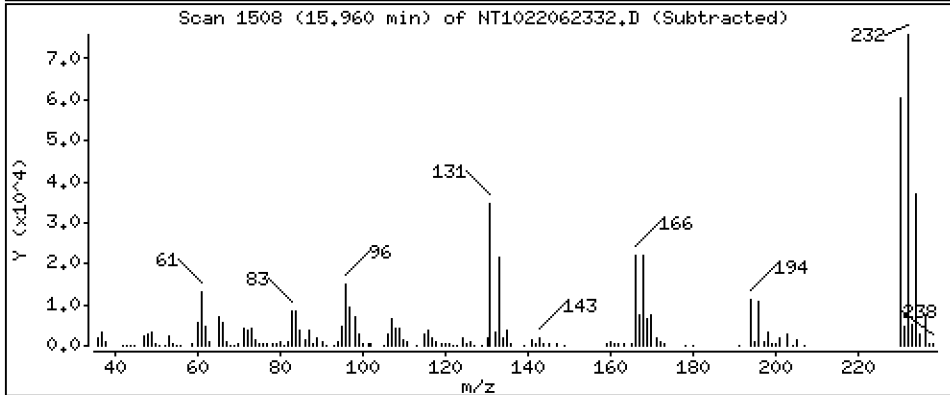
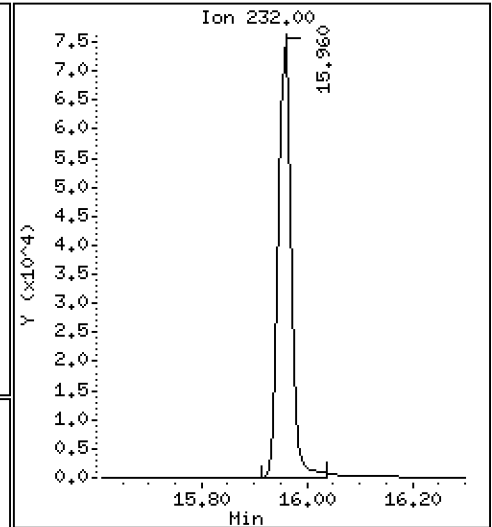
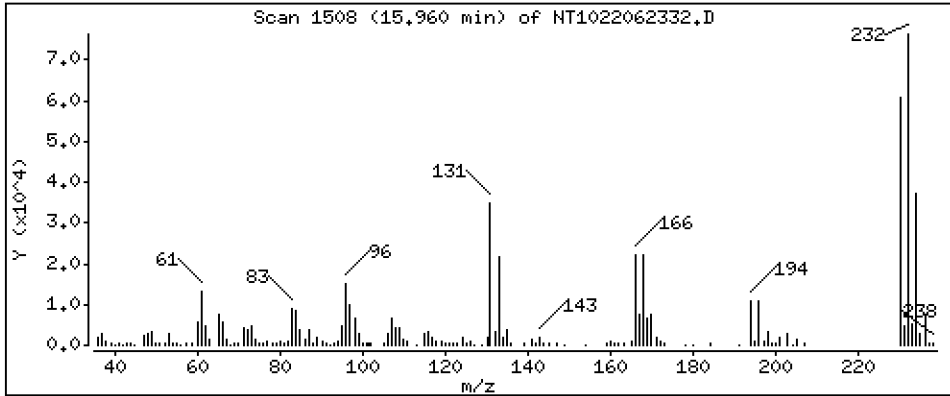
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,881 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220623.b\NT1022062332.D
 Lab Smp Id: SKF0270-CCV1
 Inj Date : 24-JUN-2022 04:54
 Operator : VTS
 Smp Info : SKF0270-CCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Meth Date : 24-Jun-2022 14:05 yev
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.906	6.891	(0.758)	427255	7.54576	7.546
\$ 2 Phenol-d5	99		8.490	8.475	(0.932)	671359	7.99099	7.991
3 Phenol	94		8.513	8.498	(0.935)	368088	5.02792	5.028
\$ 5 2-Chlorophenol-d4	132		8.752	8.745	(0.961)	434394	7.52925	7.529
4 Bis(2-Chloroethyl)ether	93		8.652	8.645	(0.950)	255834	4.85570	4.856
6 2-Chlorophenol	128		8.783	8.776	(0.964)	290101	4.97050	4.971
7 1,3-Dichlorobenzene	146		9.046	9.039	(0.993)	308487	4.88680	4.887
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.101	(1.000)	155063	4.00000	
9 1,4-Dichlorobenzene	146		9.140	9.132	(1.003)	254196	5.10844	5.108
\$ 10 1,2-Dichlorobenzene-d4	152		9.465	9.466	(1.039)	179375	5.04554	5.046
12 1,2-Dichlorobenzene	146		9.497	9.489	(1.043)	263992	4.99754	4.998
11 Benzyl alcohol	108		9.380	9.373	(1.030)	174199	5.97321	5.973
14 2,2'-oxybis(1-Chloropropane)	121		9.675	9.676	(1.062)	61695	4.93859	4.939
13 2-Methylphenol	108		9.613	9.606	(1.055)	234771	5.20122	5.201
17 Hexachloroethane	117		10.086	10.079	(1.107)	99782	4.49842	4.498
16 N-Nitroso-di-n-propylamine	70		9.931	9.924	(1.090)	153825	4.90016	4.900
15 4-Methylphenol	108		9.885	9.877	(1.085)	248105	5.14334	5.143
\$ 18 Nitrobenzene-d5	82		10.195	10.196	(0.879)	275918	5.14065	5.141
19 Nitrobenzene	77		10.234	10.227	(0.883)	276636	5.11363	5.114
20 Isophorone	82		10.684	10.677	(0.921)	424001	5.41794	5.418
21 2-Nitrophenol	139		10.868	10.859	(0.937)	179501	5.25320	5.253
22 2,4-Dimethylphenol	107		10.927	10.919	(0.942)	401482	9.67208	9.672
23 Bis(2-Chloroethoxy)methane	93		11.114	11.106	(0.958)	219771	4.67421	4.674
24 Benzoic acid	105		11.156	11.140	(0.962)	480269	21.5689	21.57
25 2,4-Dichlorophenol	162		11.334	11.326	(0.977)	435741	10.3288	10.33
26 1,2,4-Trichlorobenzene	180		11.511	11.504	(0.993)	206635	4.56320	4.563
* 27 Naphthalene-d8	136		11.596	11.589	(1.000)	504423	4.00000	
28 Naphthalene	128		11.635	11.635	(1.003)	668780	5.18042	5.180
29 4-Chloroaniline	127		11.766	11.758	(1.015)	647517	11.3593	11.36
30 Hexachlorobutadiene	225		11.990	11.990	(1.034)	108683	5.03100	5.031
31 4-Chloro-3-methylphenol	107		12.748	12.741	(1.099)	506855	9.93873	9.939
32 2-Methylnaphthalene	142		13.035	13.035	(1.124)	684217	5.33275	5.333
33 Hexachlorocyclopentadiene	237		13.499	13.499	(0.887)	32285	1.95899	1.959

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.661	13.662	(0.898)	374322	11.5109	11.51	
35 2,4,5-Trichlorophenol	196		13.747	13.739	(0.903)	407853	10.5442	10.54	
§ 36 2-Fluorobiphenyl	172		13.816	13.817	(0.908)	668635	5.16399	5.164	
37 2-Chloronaphthalene	162		14.025	14.033	(0.922)	592638	5.19203	5.192	
38 2-Nitroaniline	65		14.288	14.289	(0.939)	332082	10.8764	10.88	
39 Dimethylphthalate	163		14.714	14.714	(0.967)	487157	4.85503	4.855	
40 Acenaphthylene	152		14.900	14.908	(0.979)	799729	4.78145	4.781	
41 2,6-Dinitrotoluene	165		14.861	14.862	(0.977)	239567	10.2801	10.28	
* 42 Acenaphthene-d10	164		15.217	15.217	(1.000)	286127	4.00000		
43 3-Nitroaniline	138		15.147	15.148	(0.995)	285385	10.4027	10.40	
44 Acenaphthene	153		15.287	15.287	(1.005)	438393	5.26829	5.268	
45 2,4-Dinitrophenol	184		15.364	15.364	(1.010)	197336	18.2860	18.29	
46 Dibenzofuran	168		15.611	15.619	(1.026)	706688	5.34375	5.344	
47 4-Nitrophenol	109		15.503	15.488	(1.019)	98667	10.7623	10.76	
48 2,4-Dinitrotoluene	165		15.673	15.673	(1.030)	339229	10.8912	10.89	
50 Diethylphthalate	149		16.176	16.184	(1.063)	444485	5.16390	5.164	
49 Fluorene	166		16.323	16.331	(1.073)	589743	3.73210	3.732	
51 4-Chlorophenyl-phenylether	204		16.323	16.323	(1.073)	157765	2.27349	2.273	
52 4-Nitroaniline	138		16.423	16.423	(1.079)	300680	10.9428	10.94	
53 4,6-Dinitro-2-methylphenol	198		16.523	16.523	(0.904)	360651	22.5288	22.53	
54 N-Nitrosodiphenylamine	169		16.569	16.570	(0.907)	374476	5.80299	5.803	
§ 55 2,4,6-Tribromophenol	330		16.862	16.870	(1.108)	92486	7.09733	7.097	
56 4-Bromophenyl-phenylether	248		17.325	17.333	(0.948)	169514	5.66961	5.670	
57 Hexachlorobenzene	284		17.642	17.650	(0.966)	148986	5.47942	5.479	
58 Pentachlorophenol	266		18.006	18.014	(0.986)	71936	11.1121	11.11	
* 59 Phenanthrene-d10	188		18.269	18.277	(1.000)	410398	4.00000		
60 Phenanthrene	178		18.315	18.323	(1.003)	555319	5.15045	5.150	
61 Anthracene	178		18.408	18.416	(1.008)	585731	5.09780	5.098	
62 Carbazole	167		18.741	18.749	(1.026)	510499	4.81602	4.816	
63 Di-n-butylphthalate	149		19.538	19.554	(1.069)	704833	4.30584	4.306	
64 Fluoranthene	202		20.714	20.722	(0.888)	398767	4.73521	4.735	
65 Pyrene	202		21.139	21.147	(0.906)	349845	4.73006	4.730	
§ 66 Terphenyl-d14	244		21.426	21.441	(0.918)	195115	4.84221	4.842	
67 Butylbenzylphthalate	149		22.355	22.371	(0.958)	145522	6.23852	6.239	
68 Benzo(a)anthracene	228		23.315	23.331	(0.999)	221668	4.53045	4.530	
* 69 Chrysene-d12	240		23.338	23.354	(1.000)	115467	4.00000		
70 3,3'-Dichlorobenzidine	252		23.268	23.284	(0.997)	203880	12.7874	12.79	
71 Chrysene	228		23.392	23.400	(1.002)	184277	5.36803	5.368	
72 bis(2-Ethylhexyl)phthalate	149		23.392	23.416	(0.959)	173512	6.30374	6.304	
* 134 Di-n-octylphthalate-d4	153		24.399	24.422	(1.000)	249026	4.00000		
73 Di-n-octylphthalate	149		24.406	24.430	(1.000)	299252	5.28703	5.287	
74 Benzo(b)fluoranthene	252		25.235	25.258	(0.970)	166199	4.12513	4.125	
75 Benzo(k)fluoranthene	252		25.281	25.305	(0.971)	171756	4.43337	4.433	
76 Benzo(a)pyrene	252		25.908	25.932	(0.996)	147498	4.47306	4.473	
* 77 Perylene-d12	264		26.025	26.048	(1.000)	88962	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.775	28.814	(1.106)	139658	3.96671	3.967	
79 Dibenzo(a,h)anthracene	278		28.783	28.830	(1.106)	115927	4.30114	4.301	
80 Benzo(g,h,i)perylene	276		29.591	29.630	(1.137)	94518	3.35840	3.358	
90 N-Nitrosodimethylamine	74		4.735	4.720	(0.520)	300244	8.10448	8.104	
91 Aniline	93		8.567	8.560	(0.941)	713026	9.73819	9.738	
93 Benzidine	184		20.946	20.954	(0.897)	98446	5.77918	5.779	
103 Pyridine	79		4.758	4.736	(0.522)	396483	3.77540	3.775	
105 1-methylnaphthalene	142		13.259	13.252	(1.143)	666601	5.28823	5.288	
111 Azobenzene (1,2-DP-Hydrazine)	77		16.646	16.647	(1.094)	563668	4.93258	4.933	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.281	25.305	(0.971)	322196	8.57691	8.577
120 2,3,4,6-Tetrachlorophenol	232	15.959	15.959	(1.049)	121772	4.88055	4.881

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-JUN-2022
 Lab File ID: NT1022062332.D Calibration Time: 16:38
 Lab Smp Id: SKF0270-CCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	149714	74857	299428	155063	3.57
27 Naphthalene-d8	491315	245658	982630	504423	2.67
42 Acenaphthene-d10	286589	143295	573178	286127	-0.16
59 Phenanthrene-d10	498820	249410	997640	410398	-17.73
69 Chrysene-d12	311295	155648	622590	115467	-62.91 <-
134 Di-n-octylphthala	577982	288991	1155964	249026	-56.91 <-
77 Perylene-d12	218550	109275	437100	88962	-59.29 <-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.11	0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.06
42 Acenaphthene-d10	15.22	14.72	15.72	15.22	-0.00
59 Phenanthrene-d10	18.28	17.78	18.78	18.27	-0.04
69 Chrysene-d12	23.35	22.85	23.85	23.34	-0.07
134 Di-n-octylphthala	24.42	23.92	24.92	24.40	-0.10
77 Perylene-d12	26.05	25.55	26.55	26.03	-0.09

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

REVIEW SUMMARY FOR FILE - NT1022062332.D

Lab ID: SKF0270-CCV1
nt10.i, ABN.m, 24-JUN-2022 04:54

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022062313.D

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

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



**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022062311.D

Calibration Date: 06/23/2022

Sequence: SKF0270

Injection Date: 06/23/22

Lab Sample ID: SKF0270-SCV1

Injection Time: 15:20

Sequence Name: SCV 5.0

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	5.0000	5.1	1.8884920	1.9393230		2.7	+/-20
bis(2-chloroethyl) ether	A	5.0000	5.8	1.3591220	1.5744080		15.8	+/-20
2-Chlorophenol	A	5.0000	5.2	1.5055700	1.5654720		4.0	+/-20
1,3-Dichlorobenzene	A	5.0000	5.0	1.6284120	1.6328710		0.3	+/-20
1,4-Dichlorobenzene	A	5.0000	5.3	1.2836070	1.3597700		5.9	+/-20
1,2-Dichlorobenzene	A	5.0000	5.1	1.3626570	1.3864860		1.7	+/-20
Benzyl Alcohol	A	5.0000	5.5	0.7522971	0.8246505		9.6	+/-20
2,2'-Oxybis(1-chloropropane)	A	5.0000	7.1	0.3222545	0.4552230		41.3	+/-20 *
2-Methylphenol	A	5.0000	4.4	1.1643690	1.0343570		-11.2	+/-20
Hexachloroethane	A	5.0000	5.3	0.5721944	0.6060907		5.9	+/-20
N-Nitroso-di-n-Propylamine	A	5.0000	5.1	0.8097827	0.8285358		2.3	+/-20
4-Methylphenol	A	5.0000	4.6	1.2443490	1.1428940		-8.2	+/-20
Nitrobenzene	A	5.0000	5.1	0.4289874	0.4408691		2.8	+/-20
Isophorone	A	5.0000	7.4	0.6205796	0.9199261		48.2	+/-20 *
2-Nitrophenol	A	5.0000	5.1	0.2709617	0.2778991		2.6	+/-20
2,4-Dimethylphenol	A	5.0000	4.7	0.3291631	0.3117705		-5.3	+/-20
Bis(2-Chloroethoxy)methane	A	5.0000	5.7	0.3728438	0.4276634		14.7	+/-20
2,4-Dichlorophenol	A	5.0000	5.5	0.3345374	0.3709848		10.9	+/-20
1,2,4-Trichlorobenzene	A	5.0000	4.9	0.3494981	0.3510726		-2.2	+/-20
Naphthalene	A	5.0000	4.9	1.0237250	1.0128380		-1.1	+/-20
Benzoic acid	A	10.0000	6.6	0.1354719	0.1135757		-33.8	+/-20 *
4-Chloroaniline	A	5.0000	4.6	0.4520265	0.4200531		-7.1	+/-20
Hexachlorobutadiene	A	5.0000	5.3	0.1713061	0.1829250		6.8	+/-20
4-Chloro-3-Methylphenol	A	5.0000	4.9	0.3652577	0.3870998		-2.9	+/-20
2-Methylnaphthalene	A	5.0000	5.2	1.0174370	1.0609290		4.3	+/-20
Hexachlorocyclopentadiene	A	5.0000	3.3	0.1773971	0.1544752		-33.5	+/-20 *
2,4,6-Trichlorophenol	A	5.0000	5.2	0.4546098	0.4766452		4.8	+/-20
2,4,5-Trichlorophenol	A	5.0000	4.4	0.4787210	0.4816381		-11.5	+/-20
2-Chloronaphthalene	A	5.0000	5.5	1.5957070	1.7432630		9.2	+/-20
2-Nitroaniline	A	5.0000	5.3	0.4268379	0.4560520		6.8	+/-20
Acenaphthylene	A	5.0000	4.5	2.3382150	2.0933440		-10.5	+/-20
Dimethylphthalate	A	5.0000	5.0	1.4027420	1.3952980		-0.5	+/-20
2,6-Dinitrotoluene	A	5.0000	5.3	0.3257863	0.3424649		5.1	+/-20
Acenaphthene	A	5.0000	4.9	1.1633080	1.1492060		-1.2	+/-20

* Values outside of QC limits



**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022062311.D

Calibration Date: 06/23/2022

Sequence: SKF0270

Injection Date: 06/23/22

Lab Sample ID: SKF0270-SCV1

Injection Time: 15:20

Sequence Name: SCV 5.0

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	5.0000	5.4	0.3835195	0.4125686		7.6	+/-20
2,4-Dinitrophenol	A	5.0000	2.0	0.1087769	0.0586628		-59.5	+/-20 *
Dibenzofuran	A	5.0000	5.3	1.8487680	1.9746660		6.8	+/-20
4-Nitrophenol	A	5.0000	4.4	0.1044372	0.1120260		-11.3	+/-20
2,4-Dinitrotoluene	A	5.0000	5.3	0.4354293	0.4622604		6.2	+/-20
Fluorene	A	5.0000	4.6	2.2090760	2.0296210		-8.1	+/-20
4-Chlorophenylphenyl ether	A	5.0000	5.4	0.9701069	1.0489830		8.1	+/-20
Diethyl phthalate	A	5.0000	5.4	1.2033170	1.2929400		7.4	+/-20
4-Nitroaniline	A	5.0000	5.1	0.3841274	0.3913343		1.9	+/-20
4,6-Dinitro-2-methylphenol	A	5.0000	4.3	0.1197775	0.1352422		-13.7	+/-20
N-Nitrosodiphenylamine	A	5.0000	5.0	0.6289655	0.6267986		-0.3	+/-20
4-Bromophenyl phenyl ether	A	5.0000	5.5	0.2914116	0.3180082		9.1	+/-20
Hexachlorobenzene	A	5.0000	5.1	0.2851630	0.2720373		2.3	+/-20
Pentachlorophenol	A	5.0000	3.2	0.0462824	0.0393238		-35.2	+/-20 *
Phenanthrene	A	5.0000	4.9	1.0508770	1.0284350		-2.1	+/-20
Anthracene	A	5.0000	4.8	1.1198770	1.0813170		-3.4	+/-20
Carbazole	A	5.0000	5.6	1.0331450	1.1503950		11.3	+/-20
Di-n-Butylphthalate	A	5.0000	5.3	1.4847320	1.7139300		6.6	+/-20
Fluoranthene	A	5.0000	4.2	2.5859780	2.4351860		-16.2	+/-20
Pyrene	A	5.0000	4.6	2.4339860	2.3392170		-8.6	+/-20
Butylbenzylphthalate	A	5.0000	4.9	0.8080700	0.7854907		-2.8	+/-20
Benzo(a)anthracene	A	5.0000	4.9	1.6949770	1.6446550		-3.0	+/-20
3,3'-Dichlorobenzidine	A	10.000	11.8	0.5523250	0.6499649		17.7	+/-20
Chrysene	A	5.0000	4.7	1.1695310	1.1149910		-5.5	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	5.1	0.4421262	0.4475114		1.2	+/-20
Di-n-Octylphthalate	A	5.0000	5.5	0.9091601	1.0004300		10.0	+/-20
Benzo(a)fluoranthene, Total	A	10.000	9.8	1.6890580	1.6606010		-1.7	+/-20
Benzo(a)pyrene	A	5.0000	4.9	1.4826420	1.4530540		-2.0	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	4.8	1.5830350	1.5078500		-4.7	+/-20
Dibenzo(a,h)anthracene	A	5.0000	4.7	1.2118700	1.1331100		-6.5	+/-20
Benzo(g,h,i)perylene	A	5.0000	4.9	1.2654270	1.2430470		-1.8	+/-20
1-Methylnaphthalene	A	5.0000	5.2	0.9995882	1.0319840		3.2	+/-20

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220623.16\NT1022062311.D

Date: 23-JUN-2022 15:20

Client ID:

Sample Info: SKF0270-SCW1

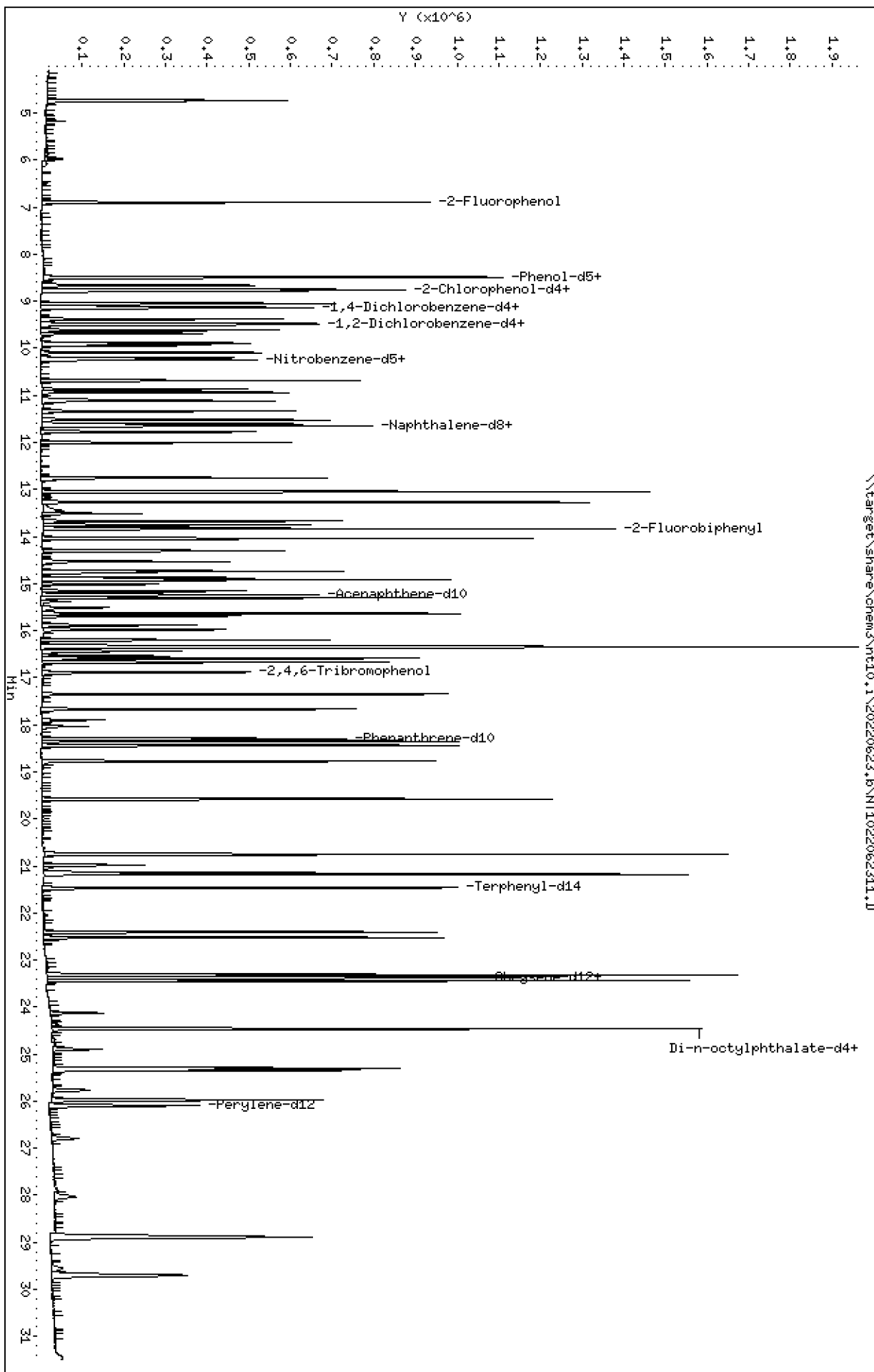
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

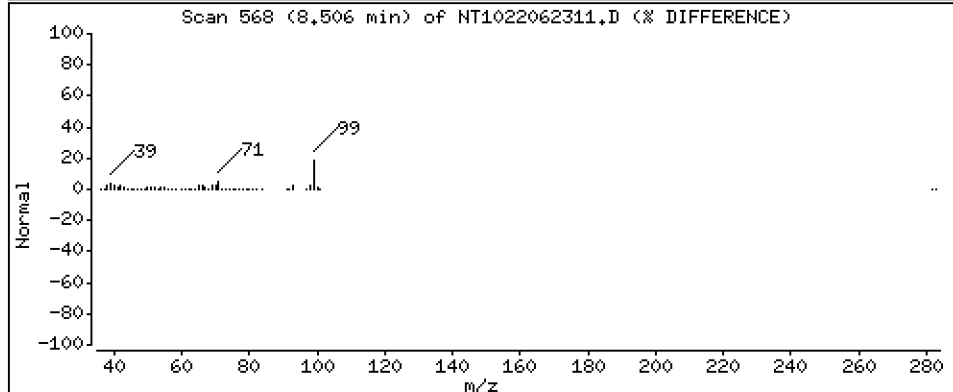
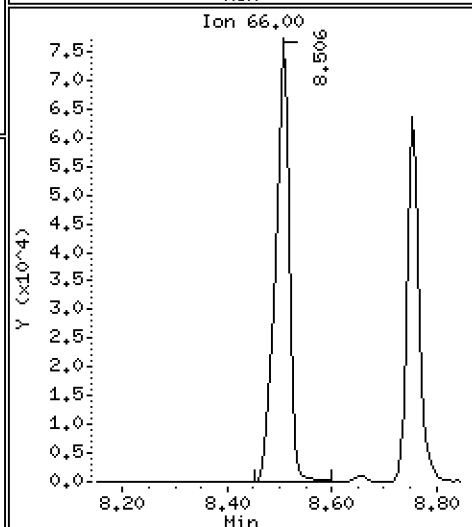
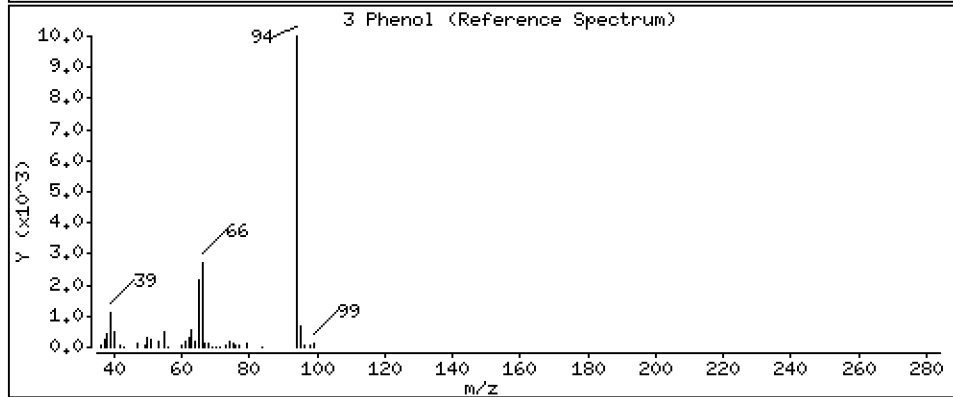
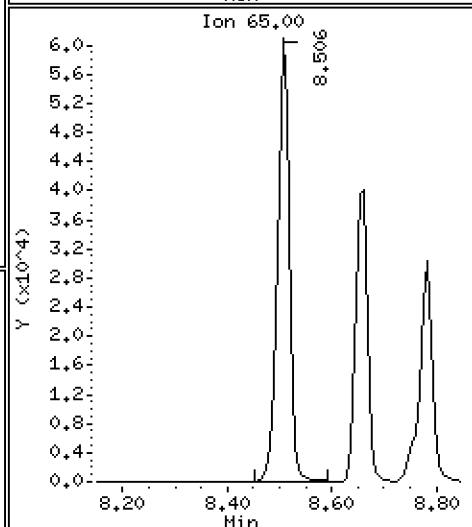
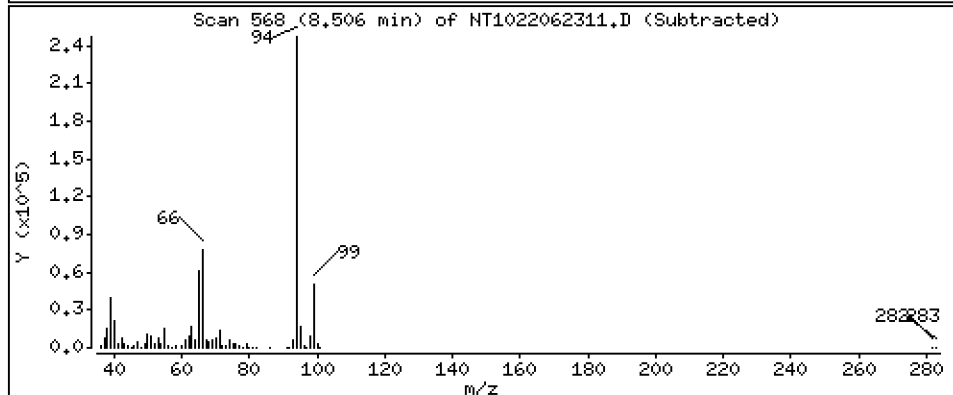
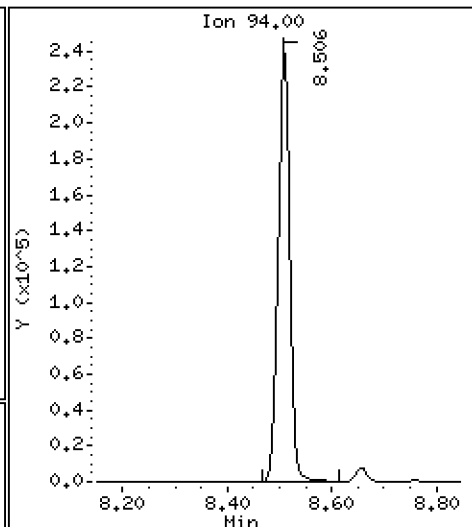
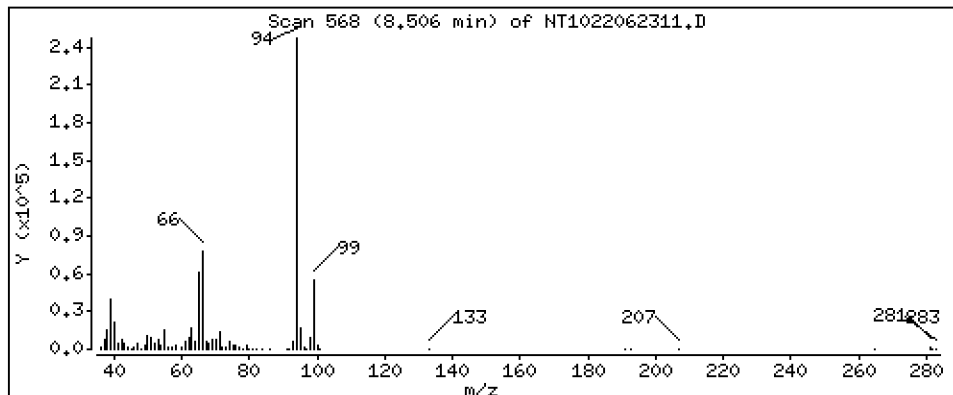
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 5,135 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

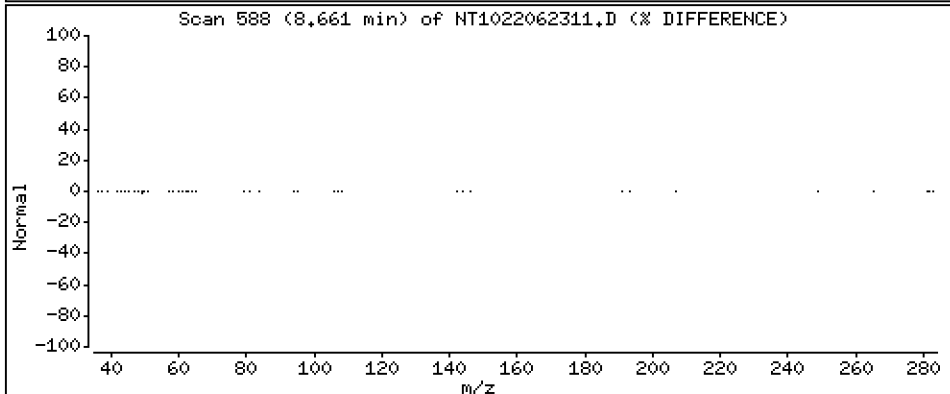
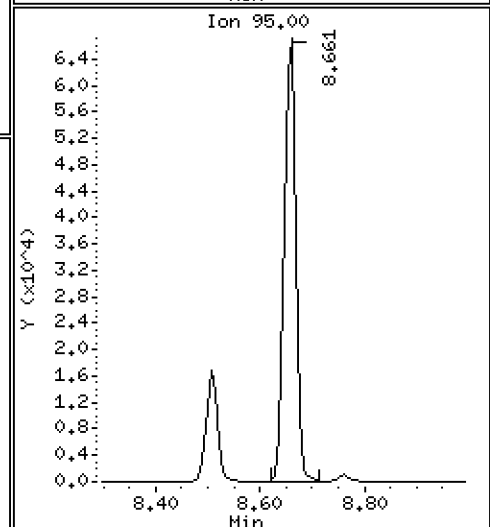
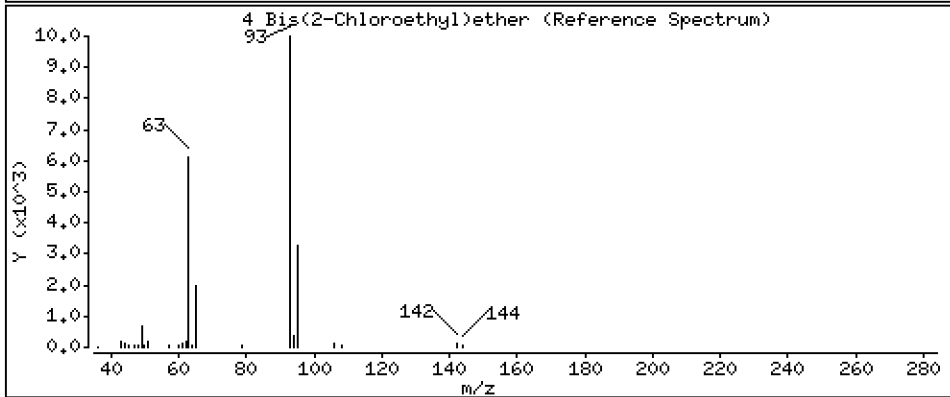
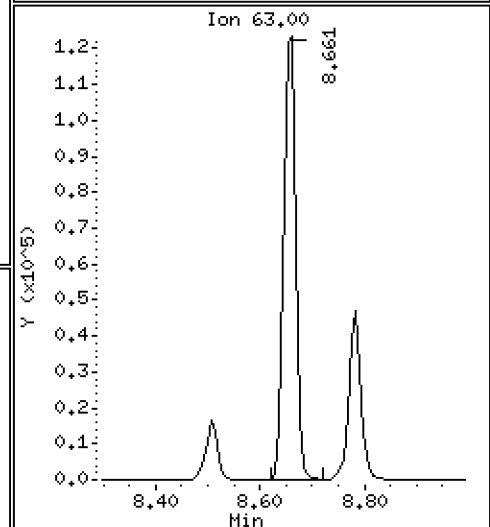
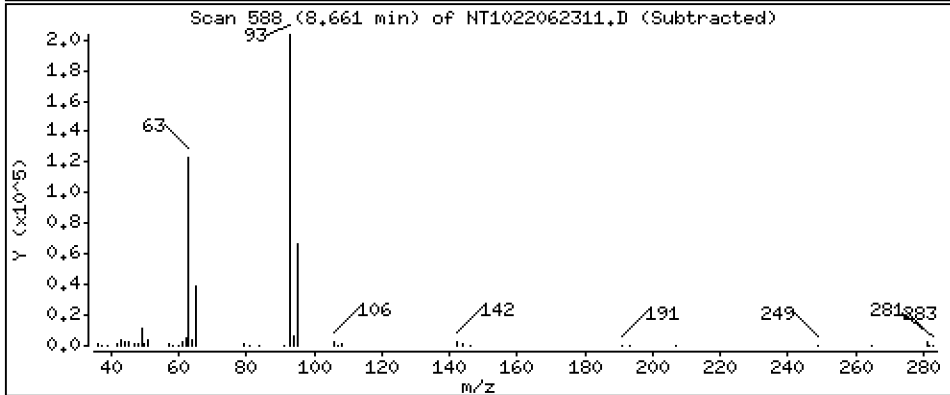
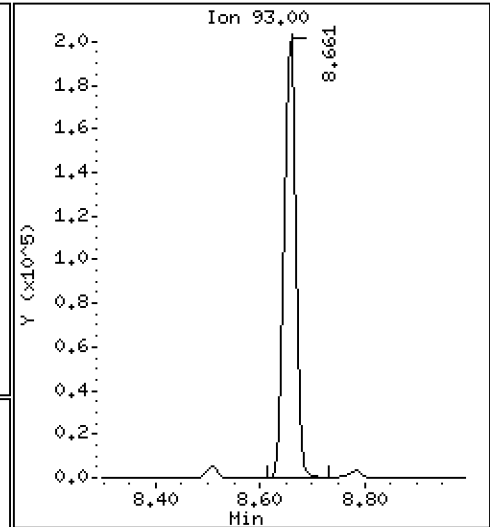
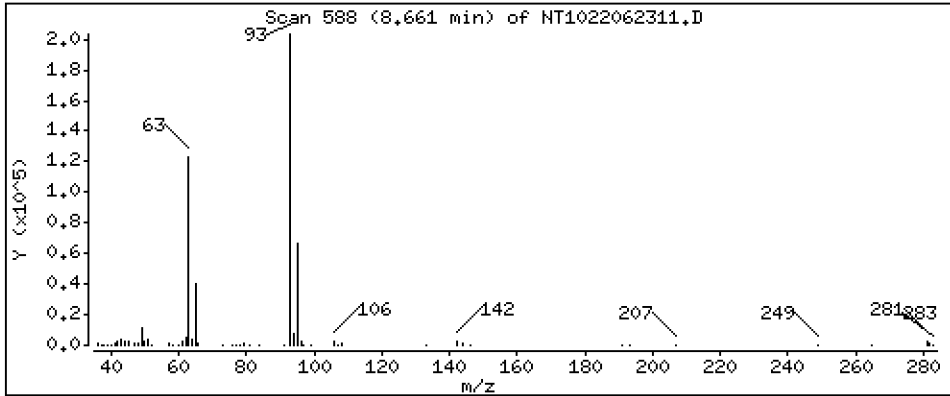
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,792 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

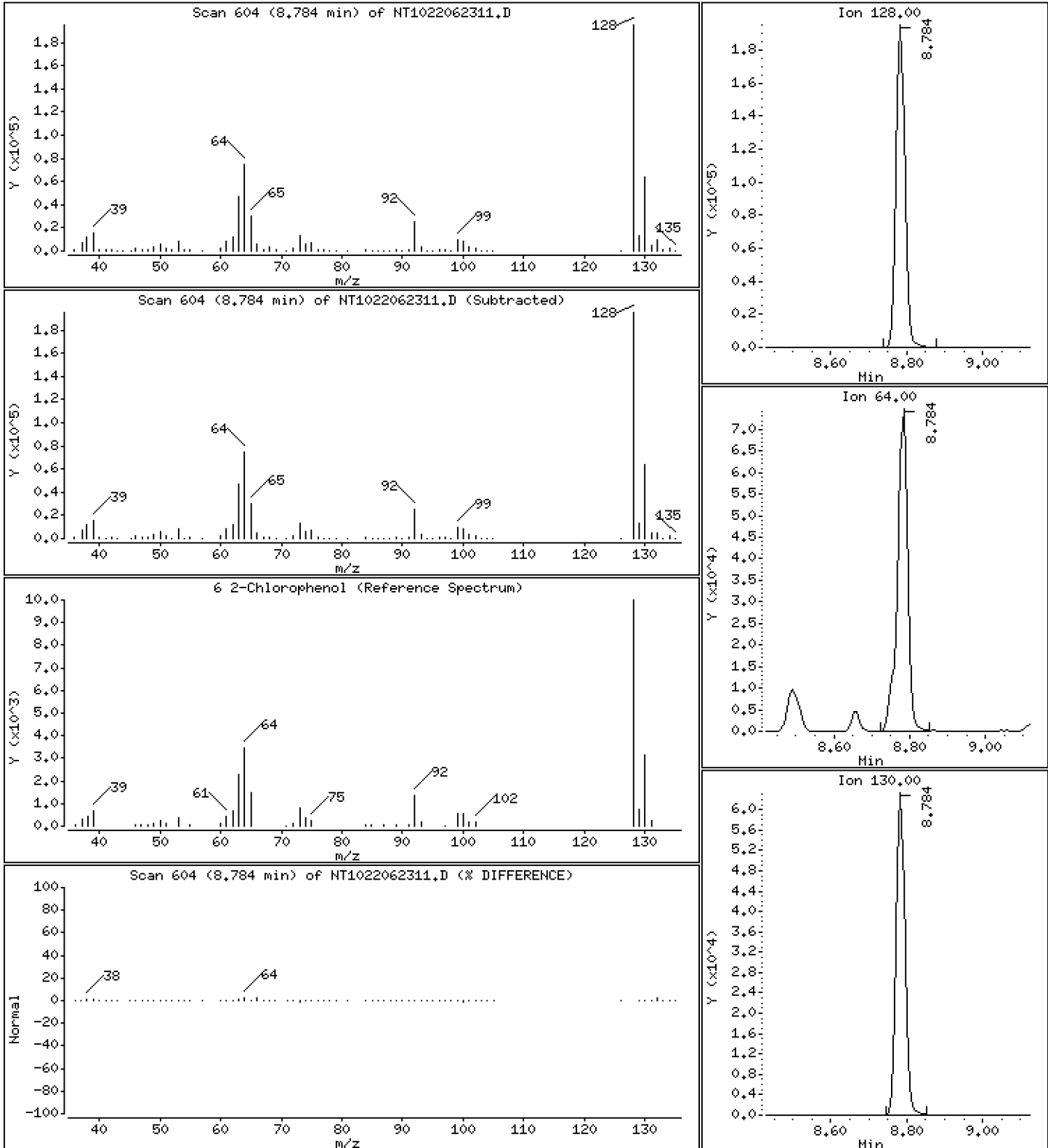
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 5,199 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

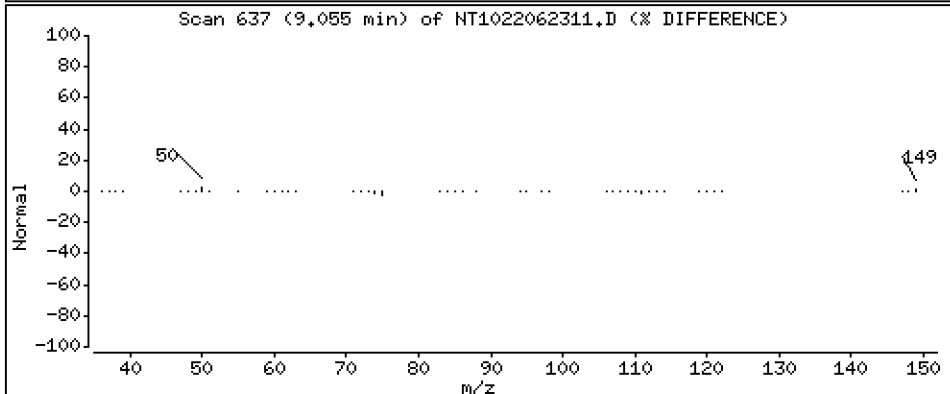
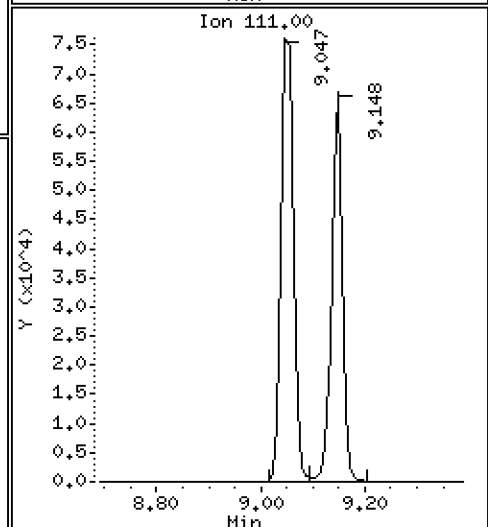
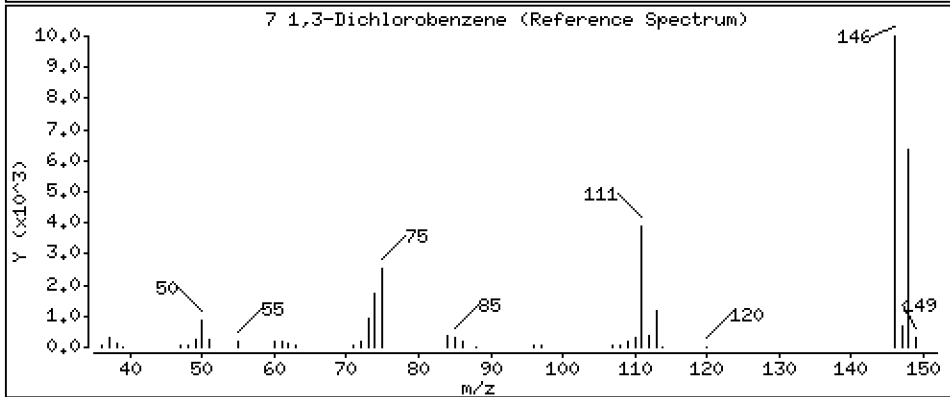
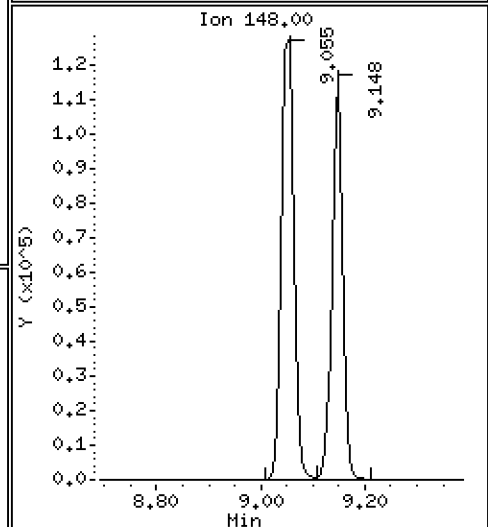
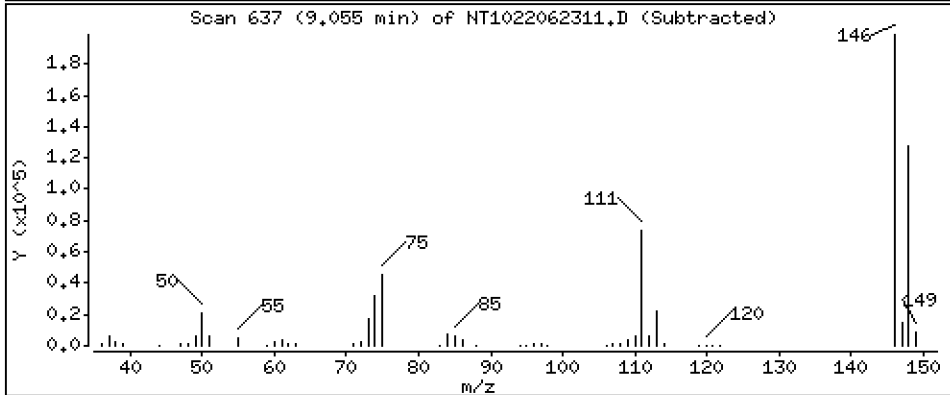
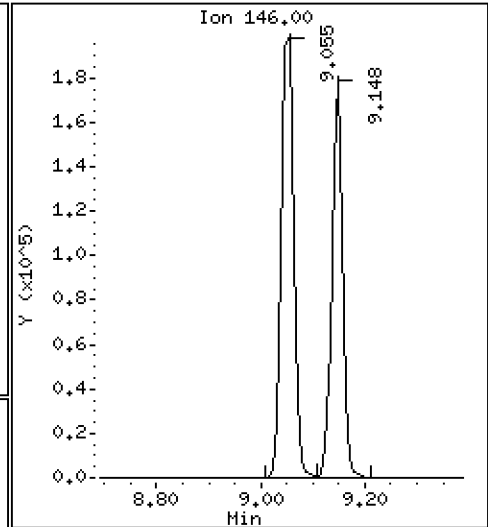
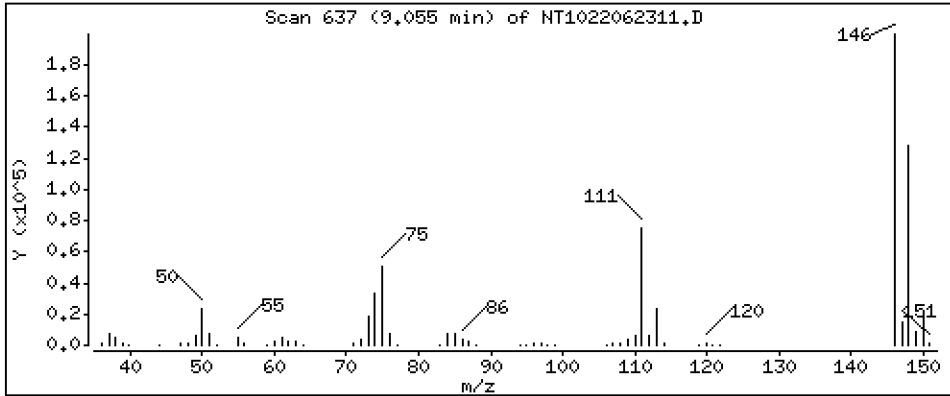
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 5,014 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

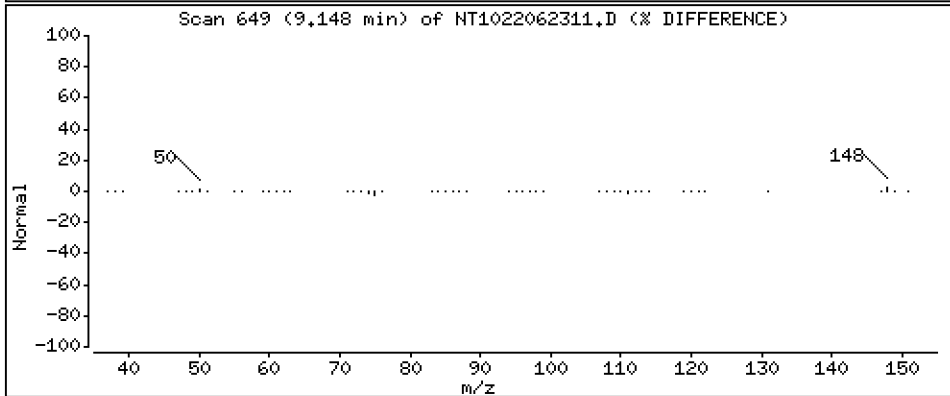
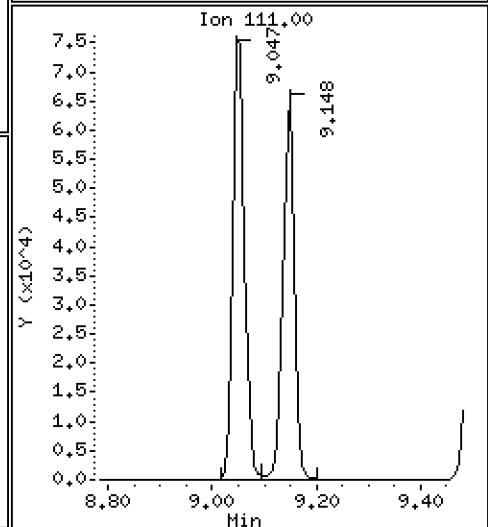
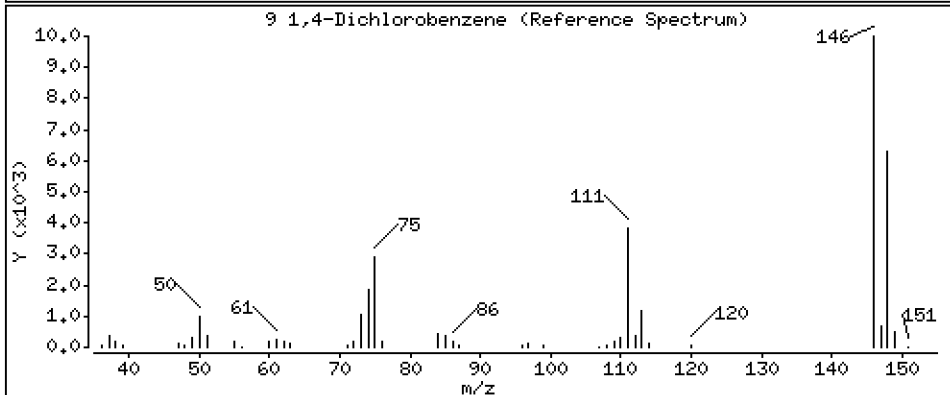
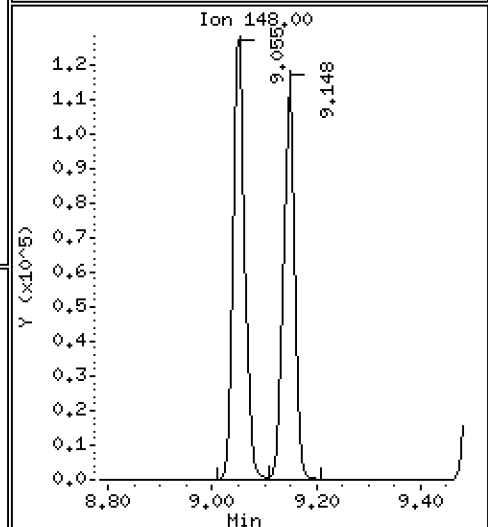
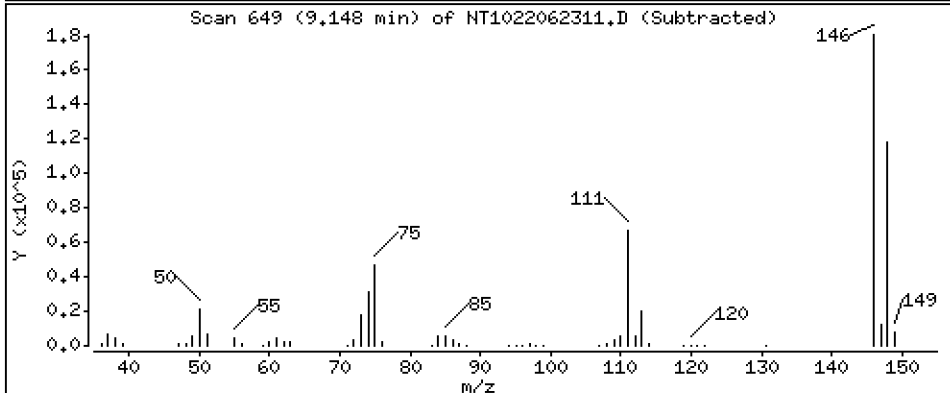
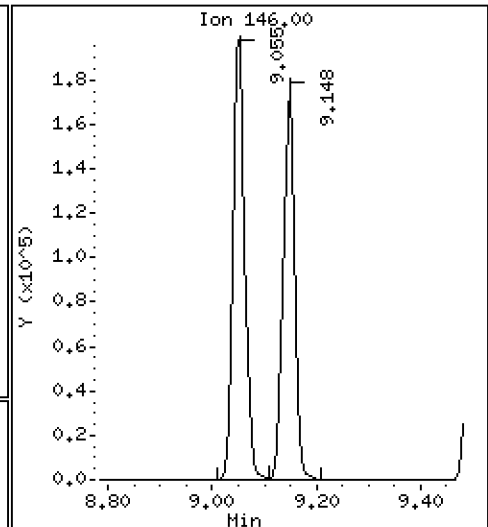
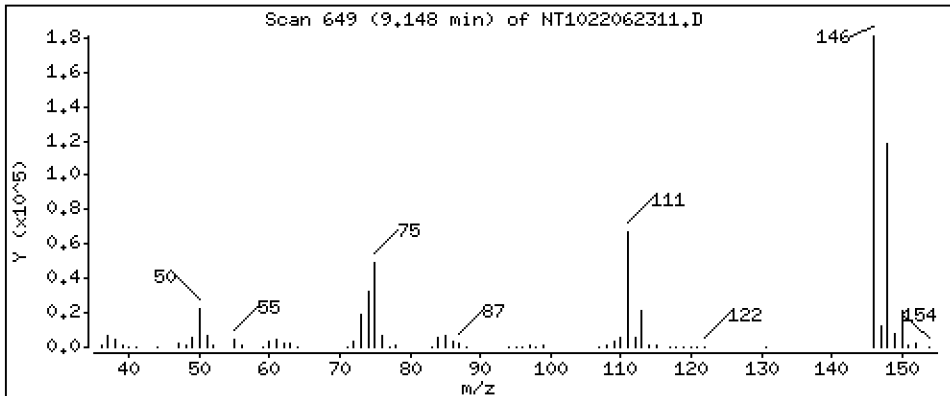
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 5,297 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

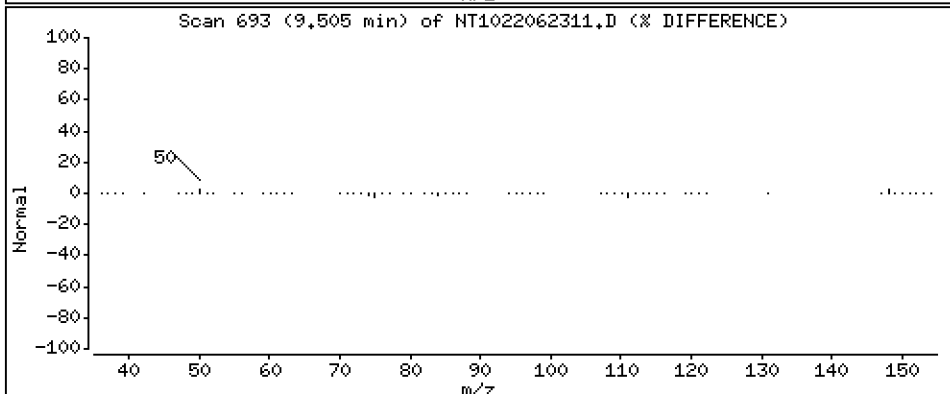
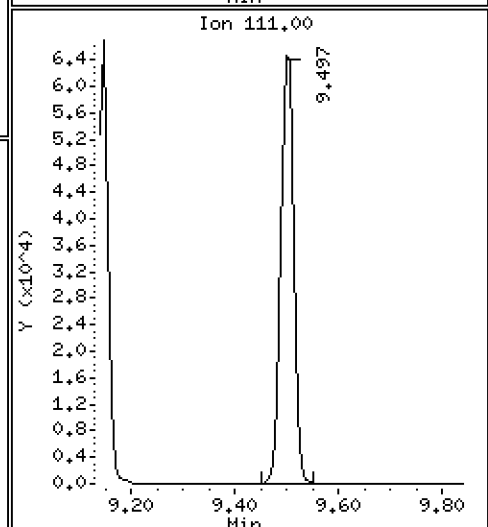
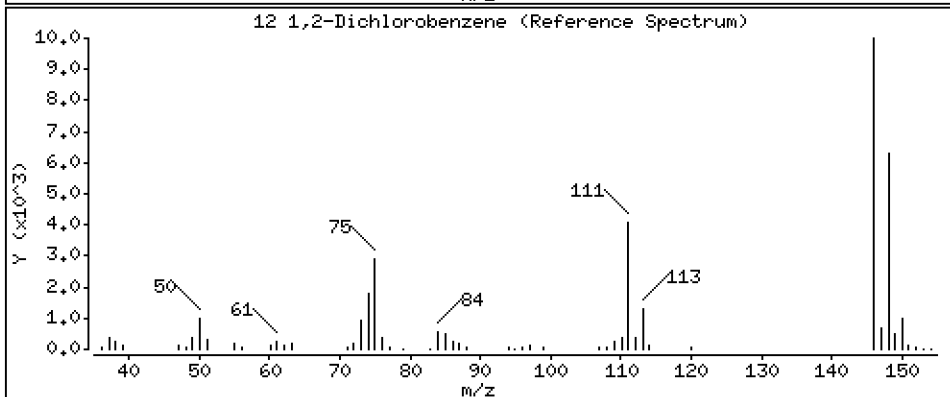
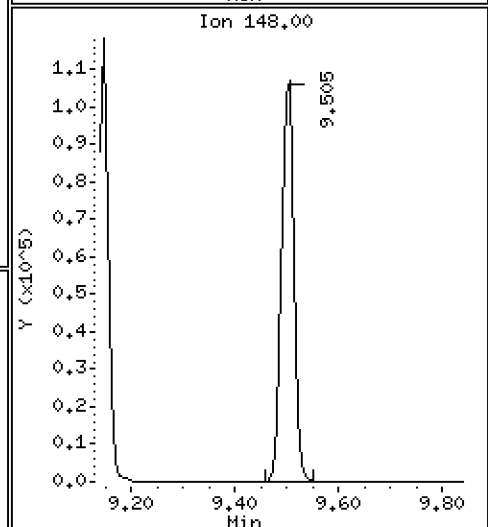
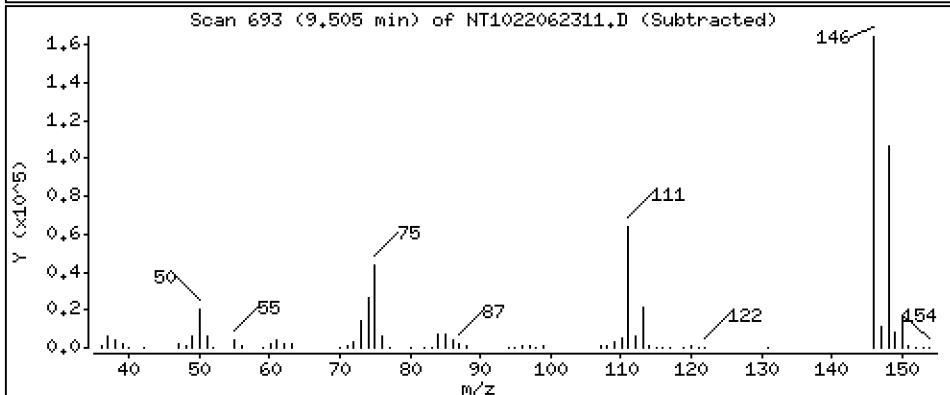
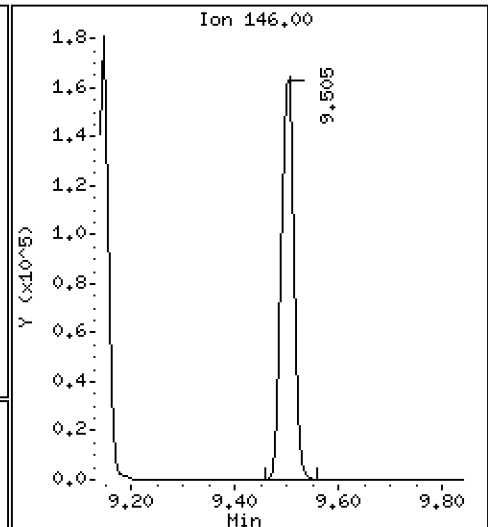
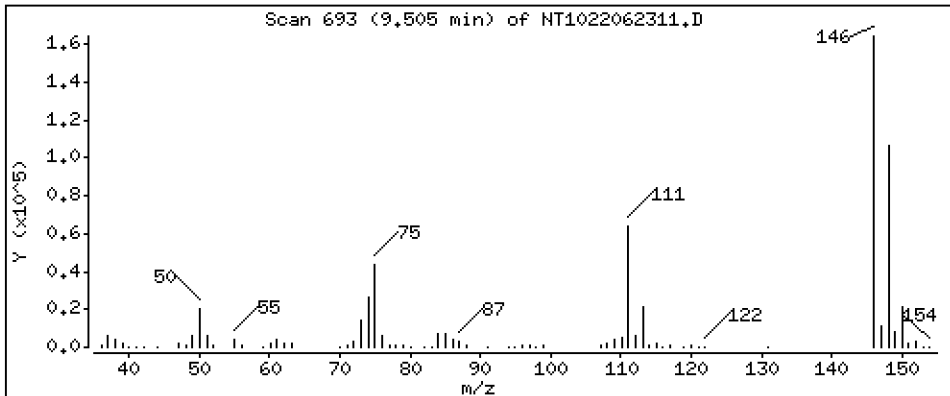
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 5,087 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

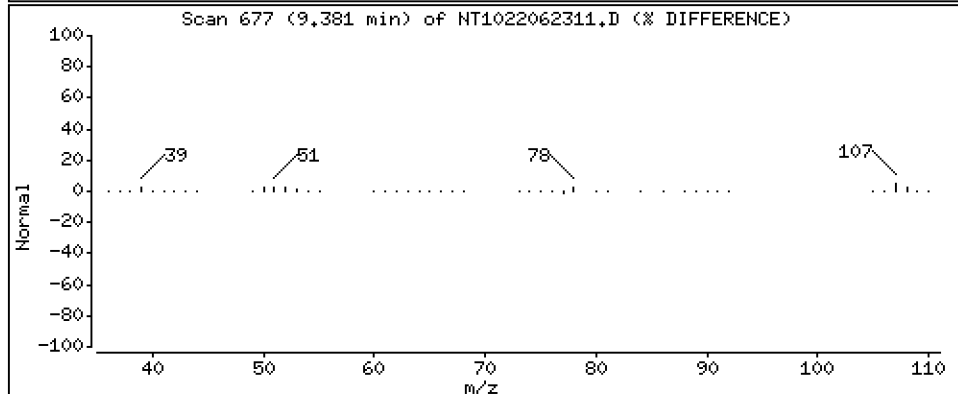
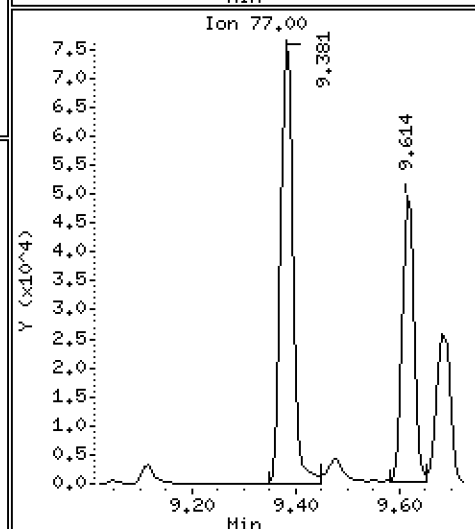
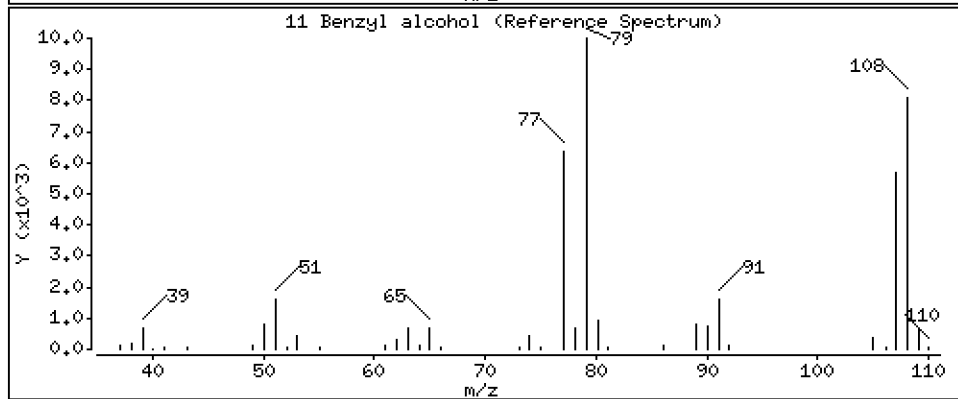
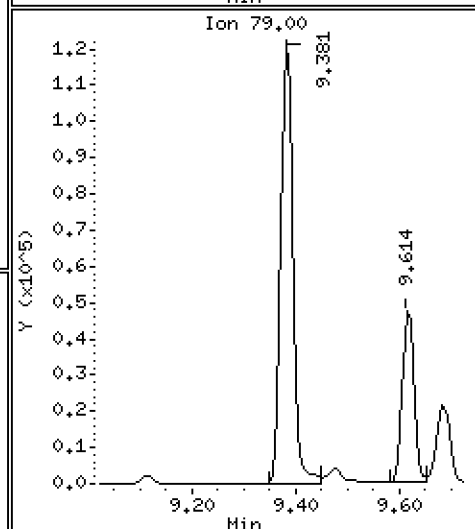
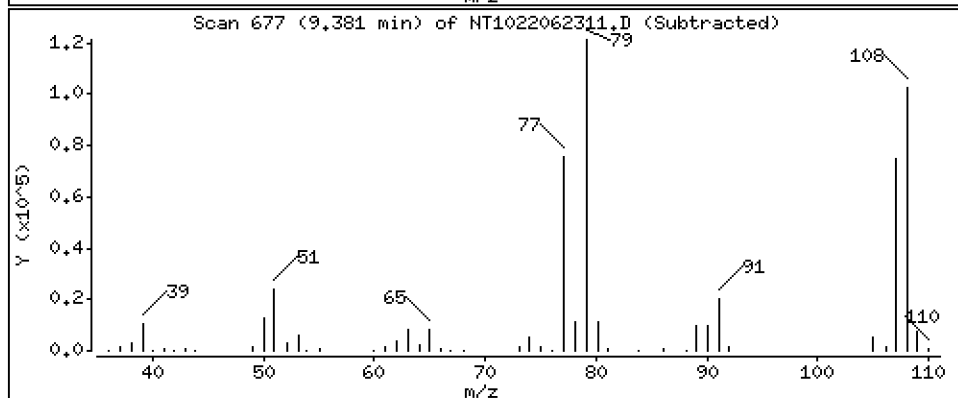
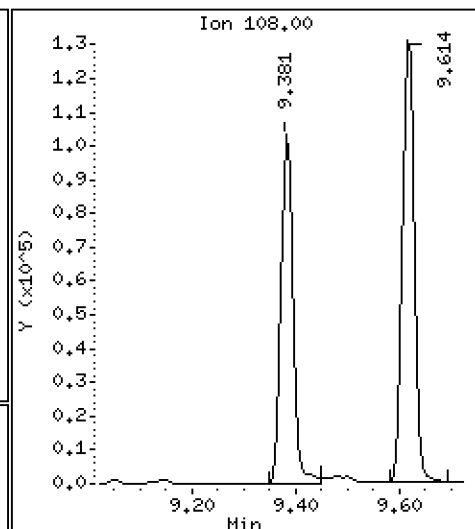
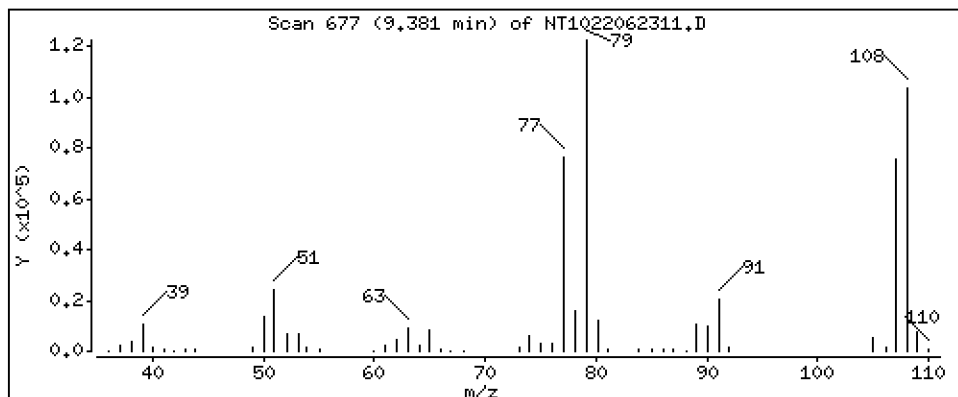
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 5.481 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

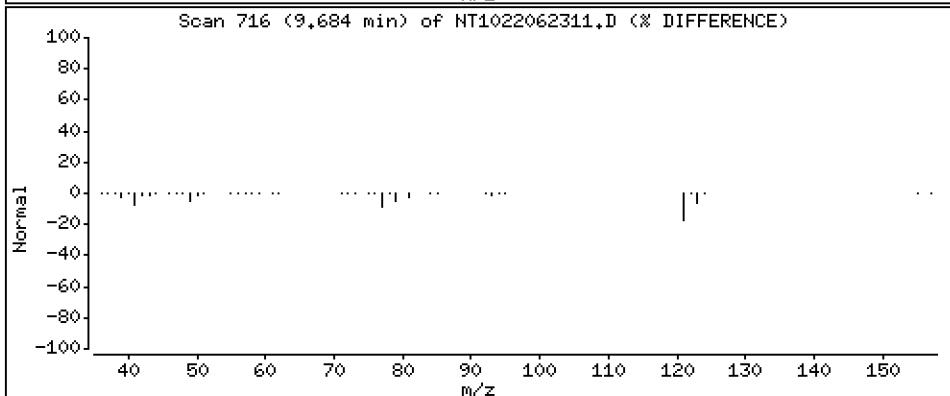
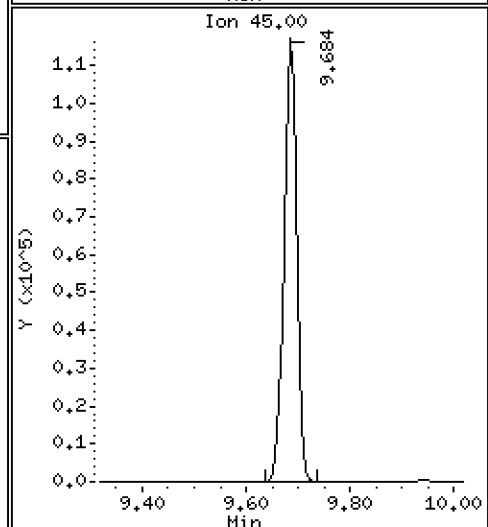
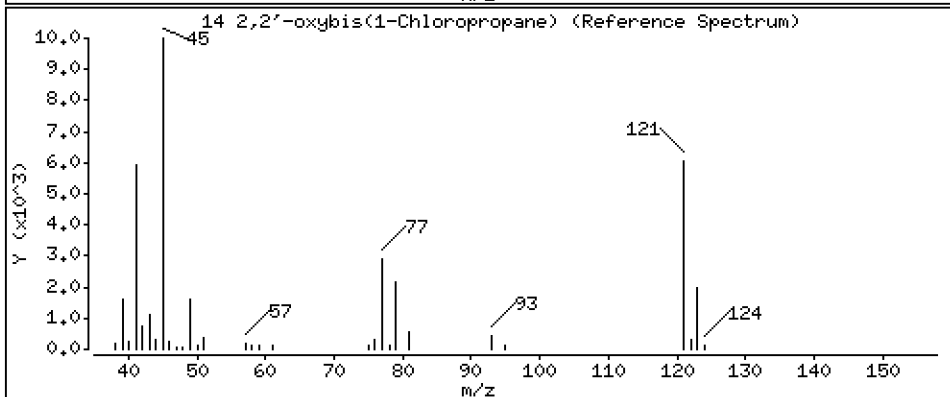
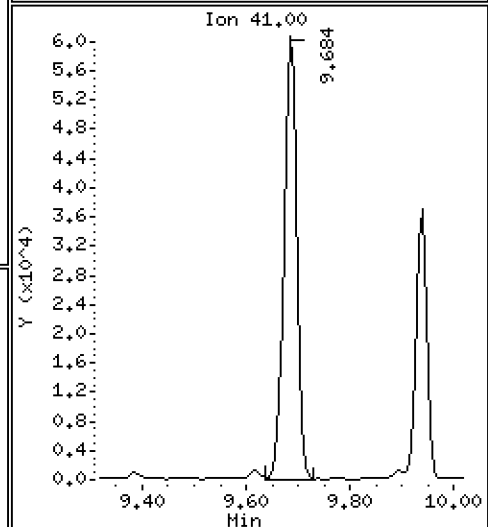
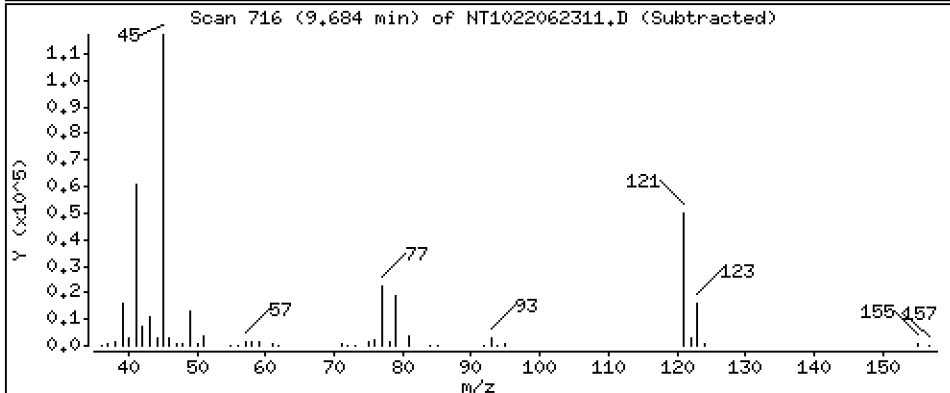
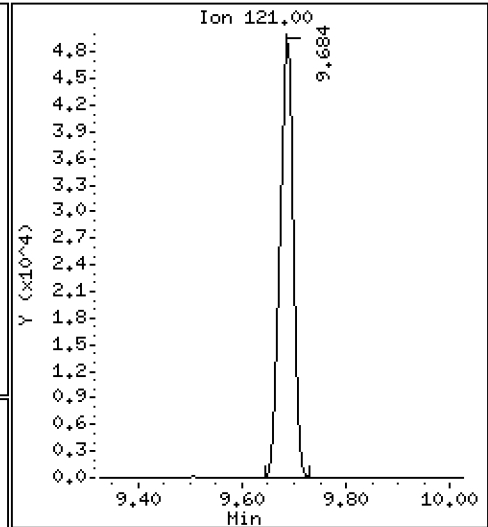
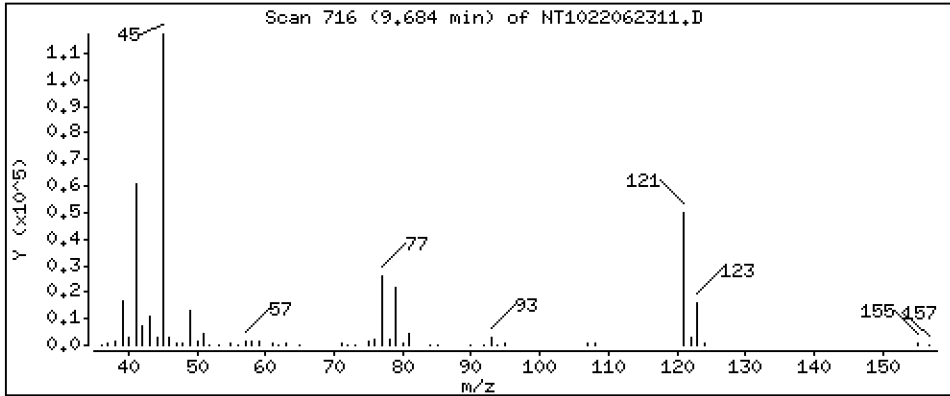
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 7,063 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

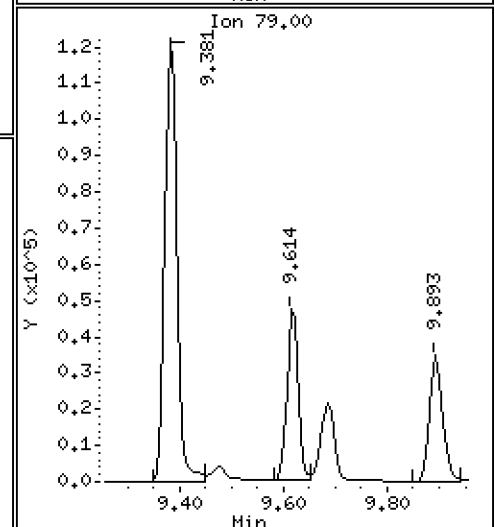
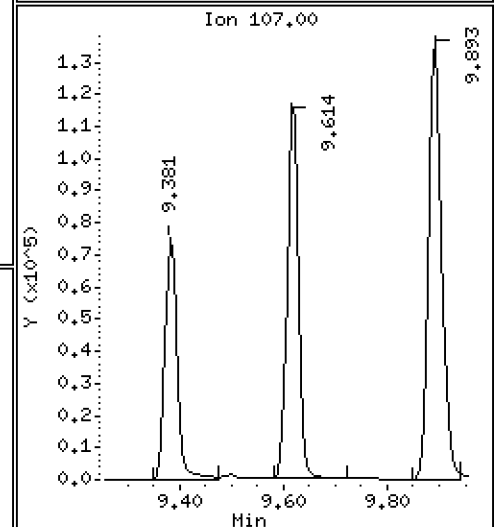
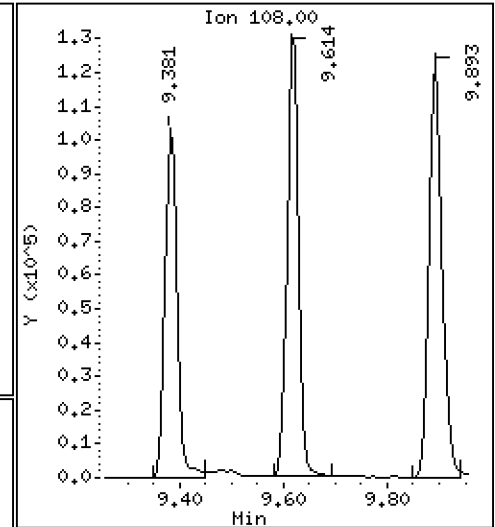
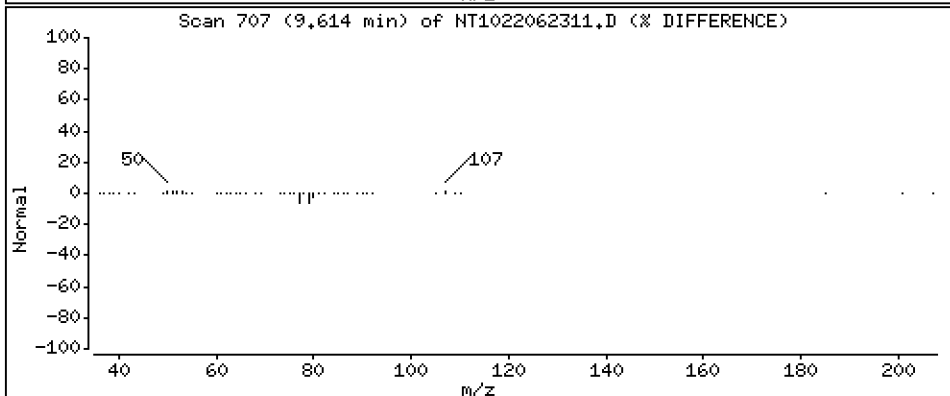
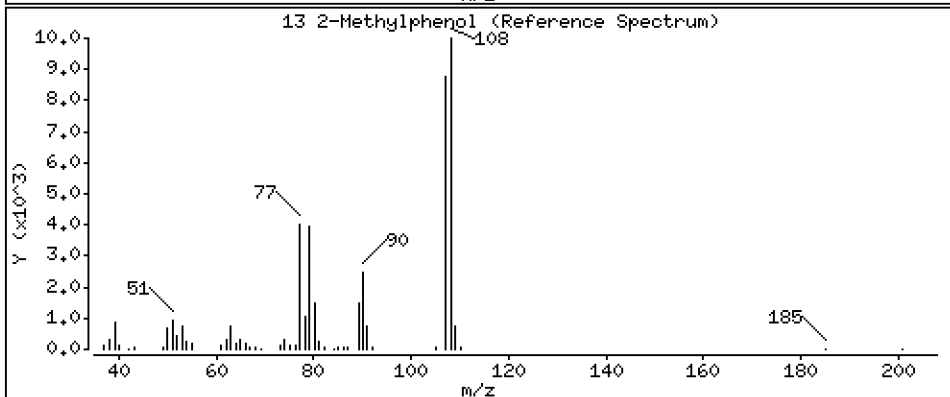
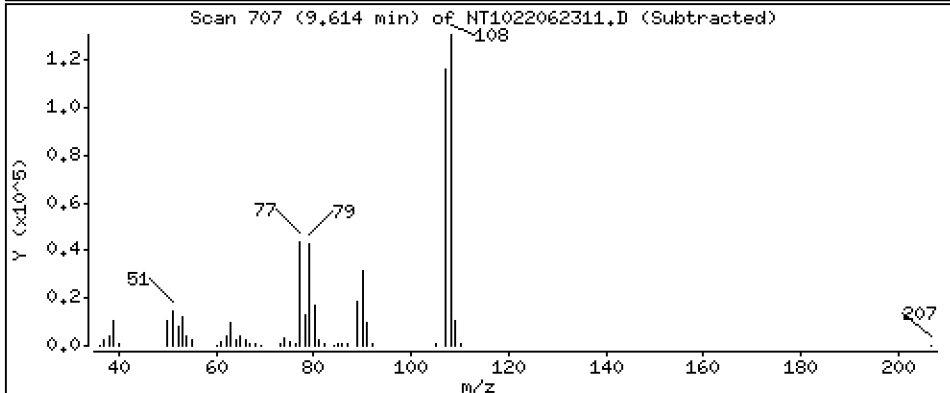
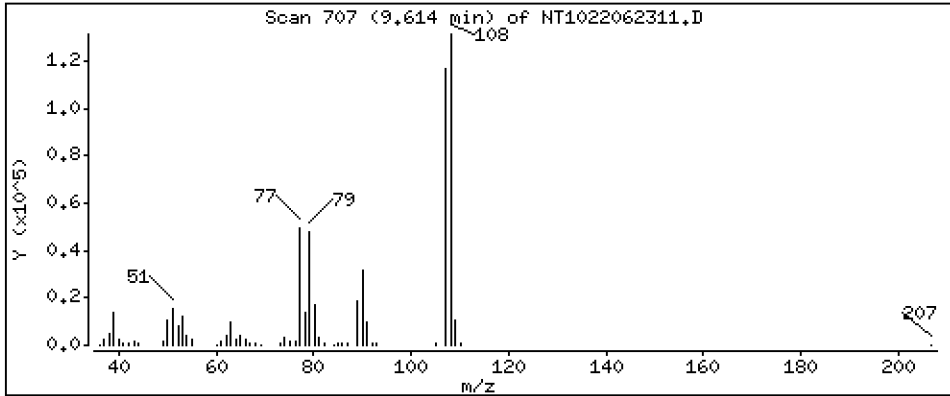
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.442 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

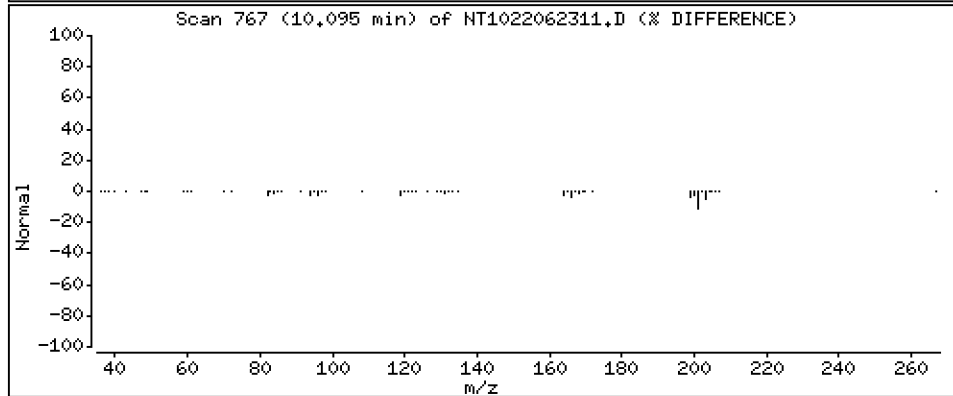
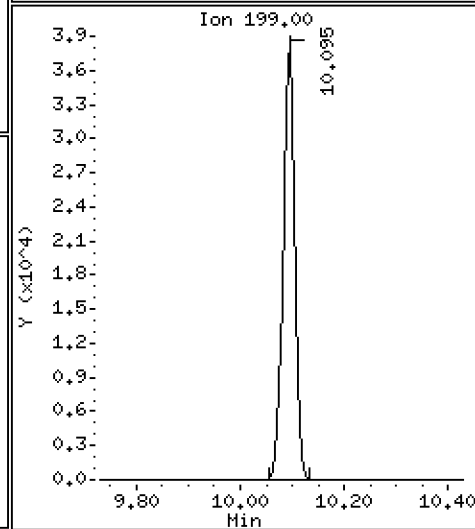
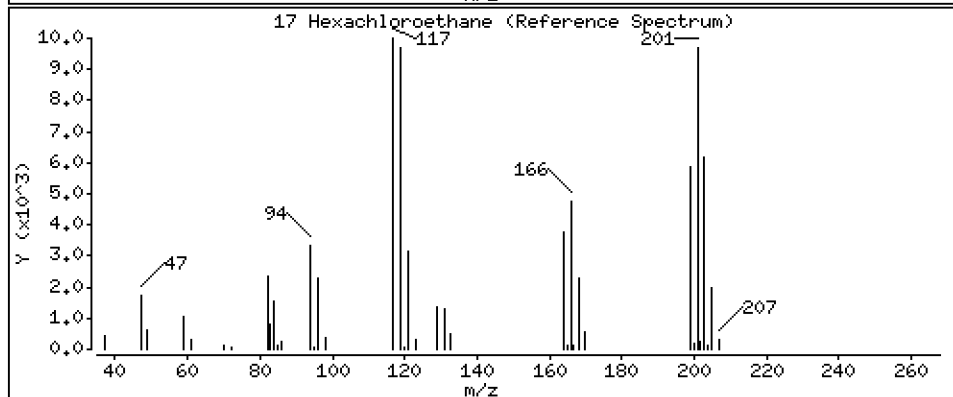
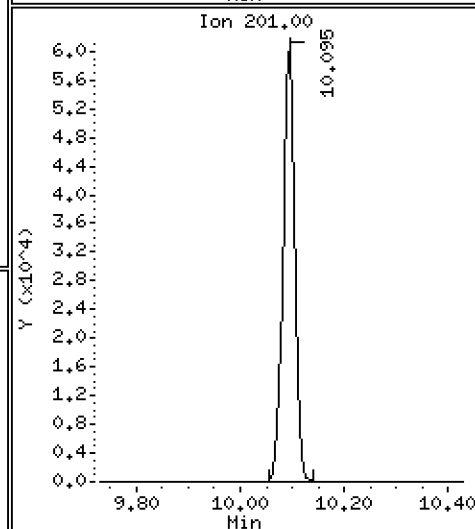
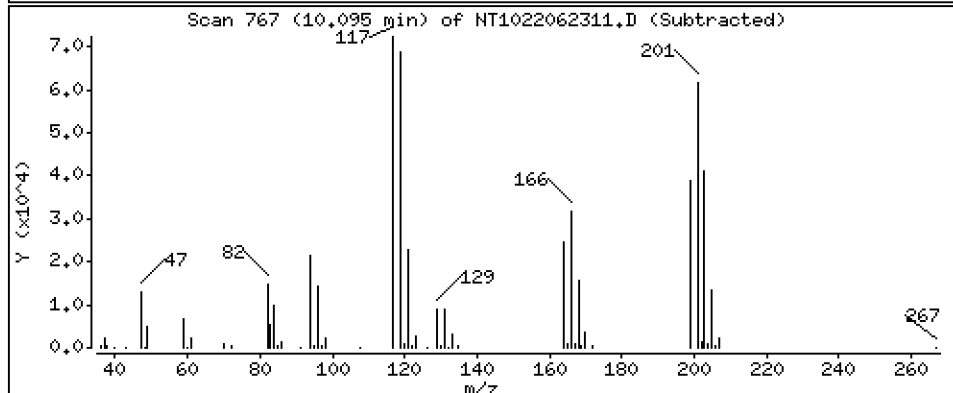
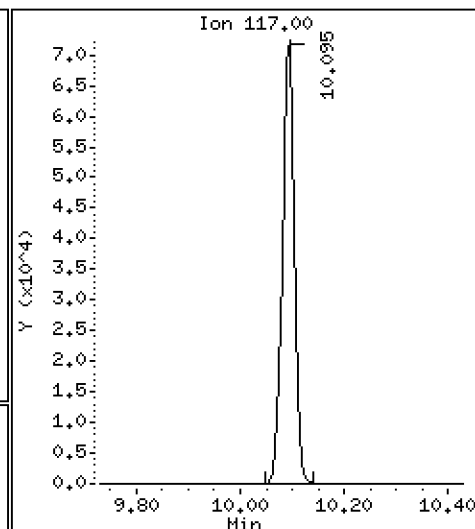
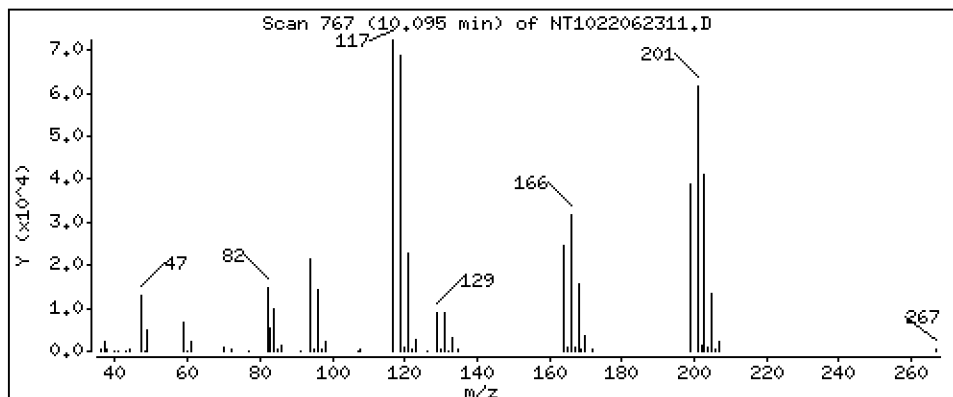
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,296 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

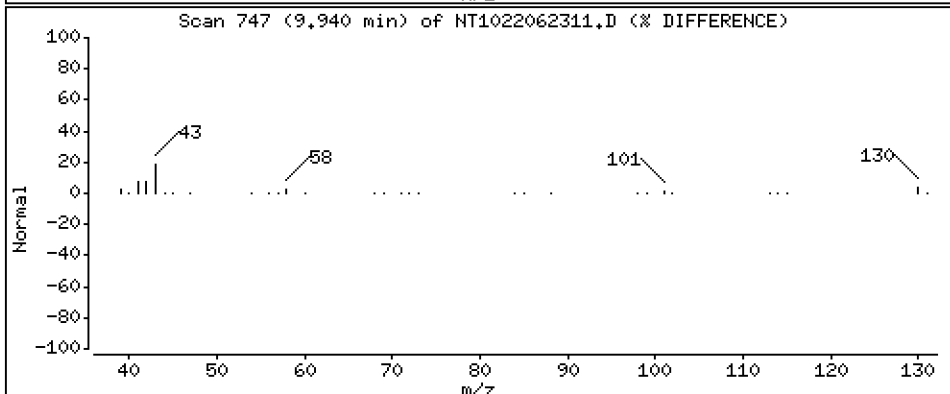
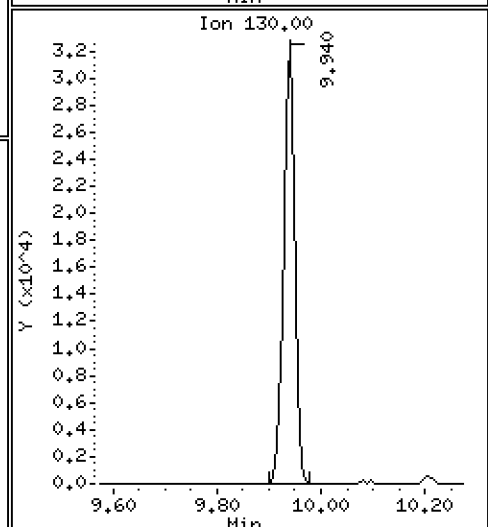
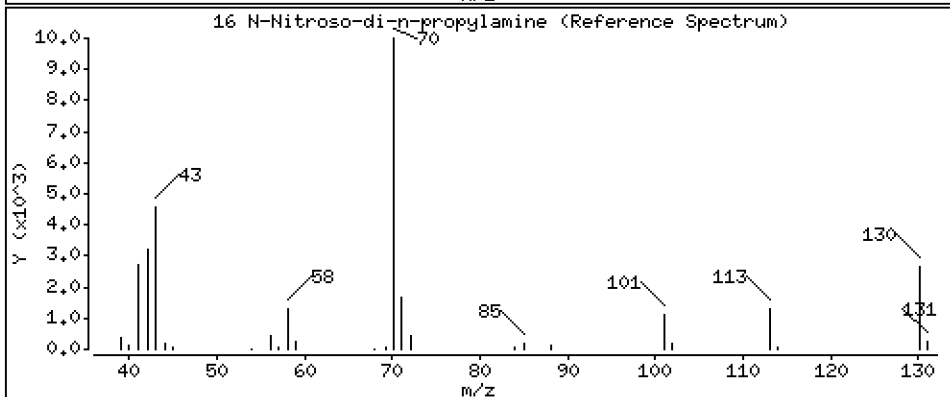
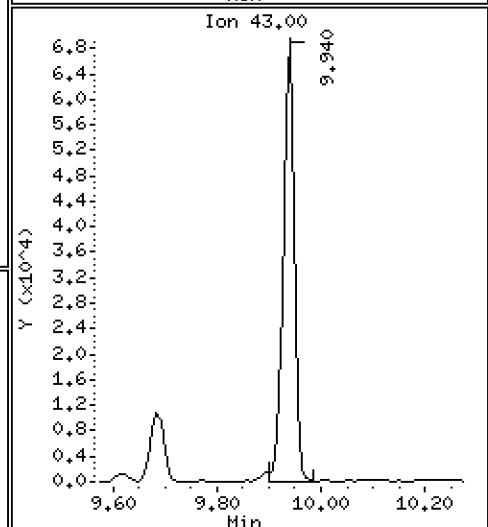
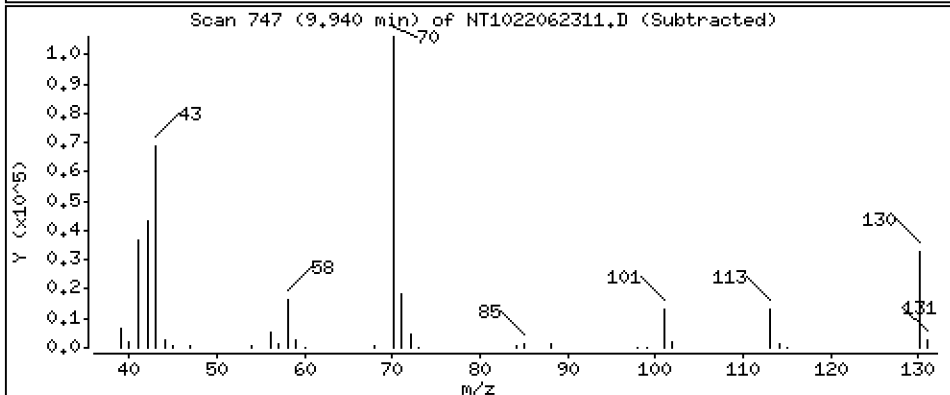
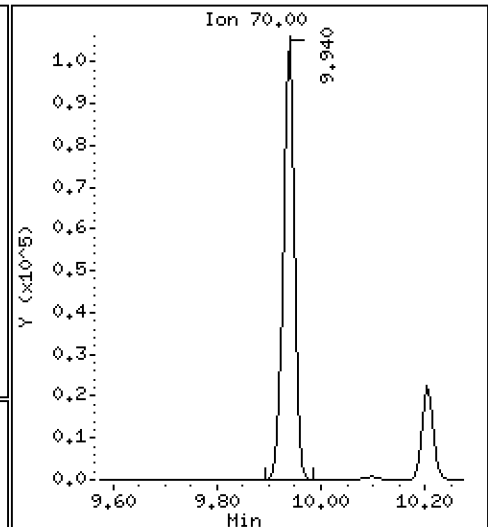
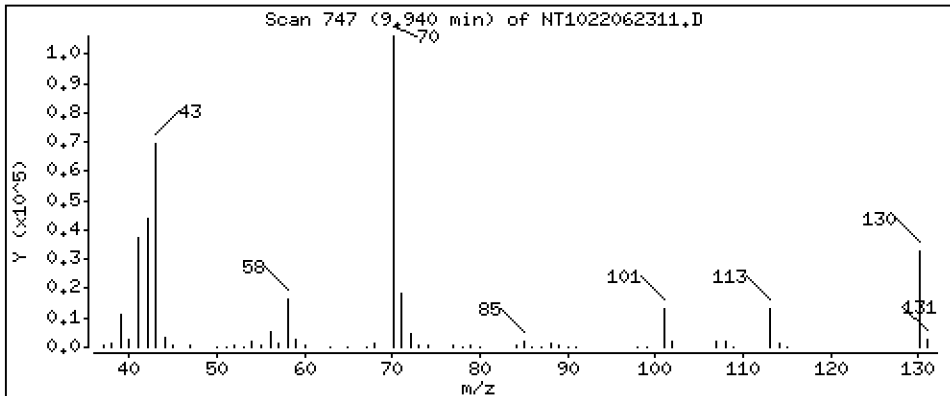
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,116 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

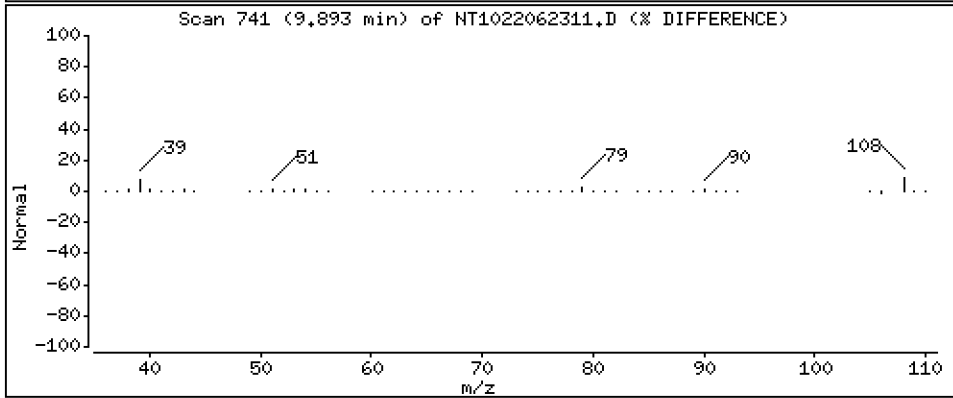
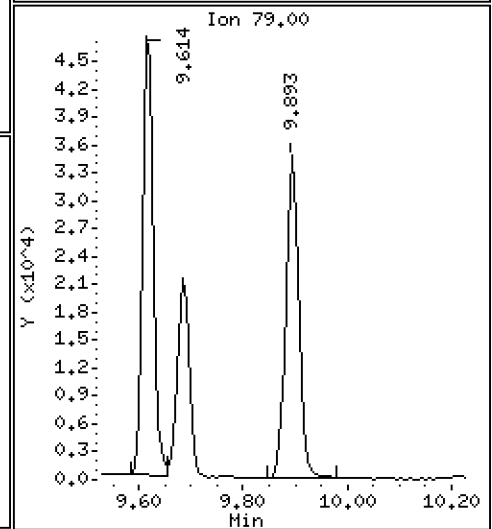
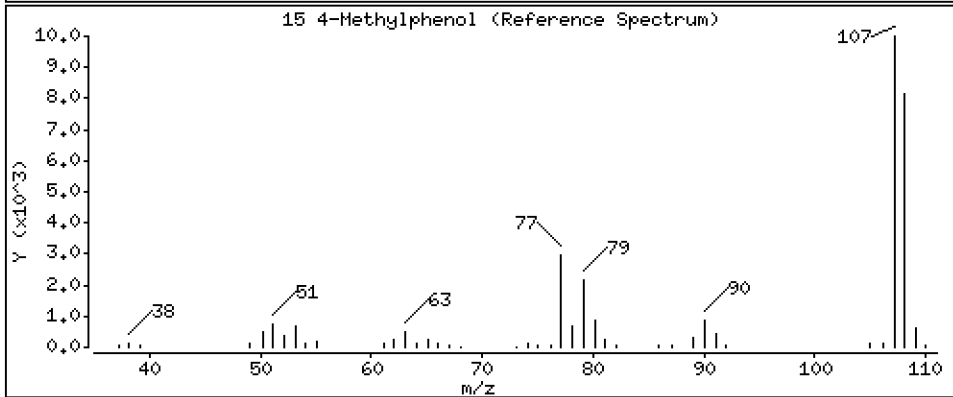
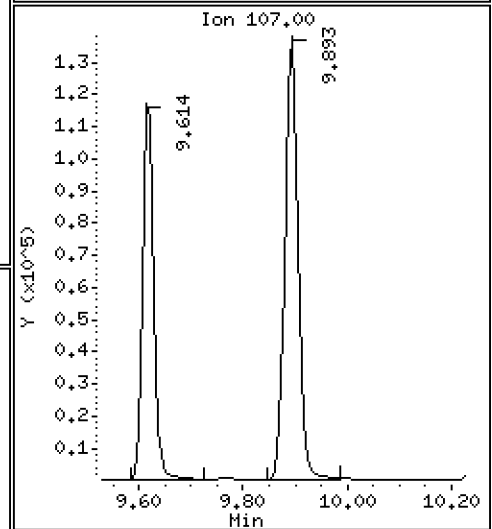
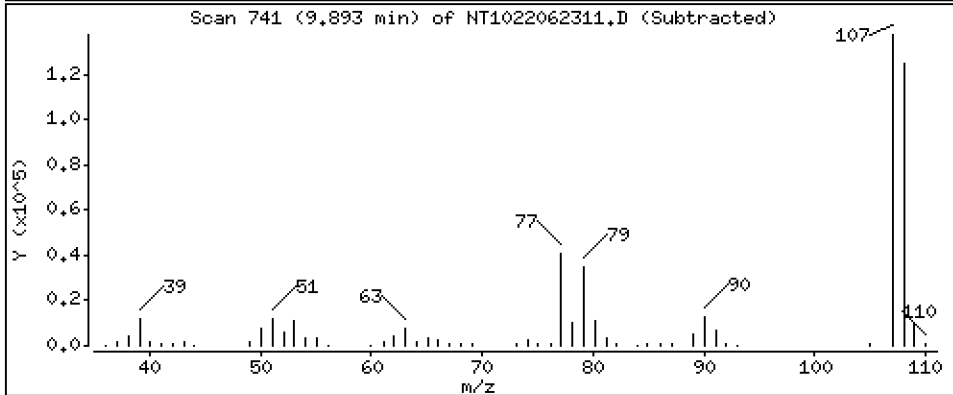
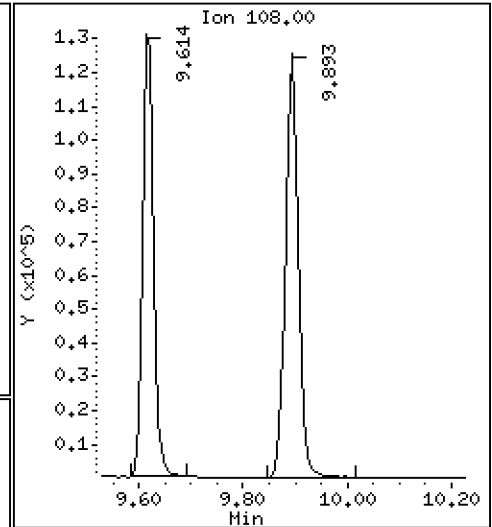
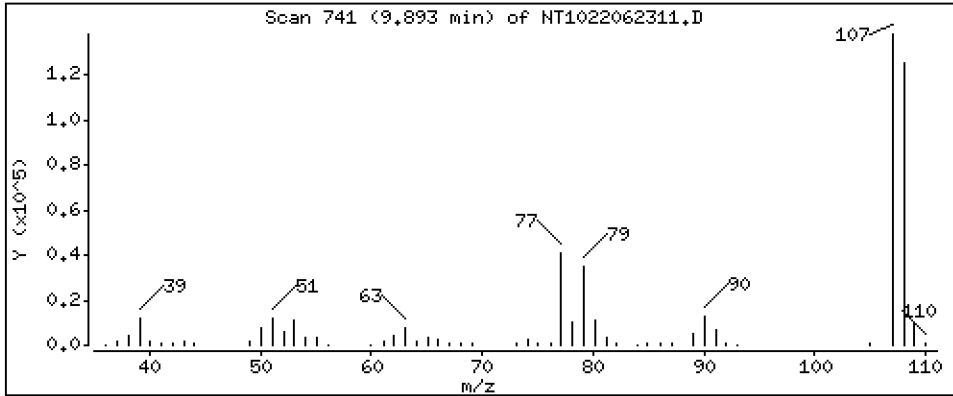
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,592 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

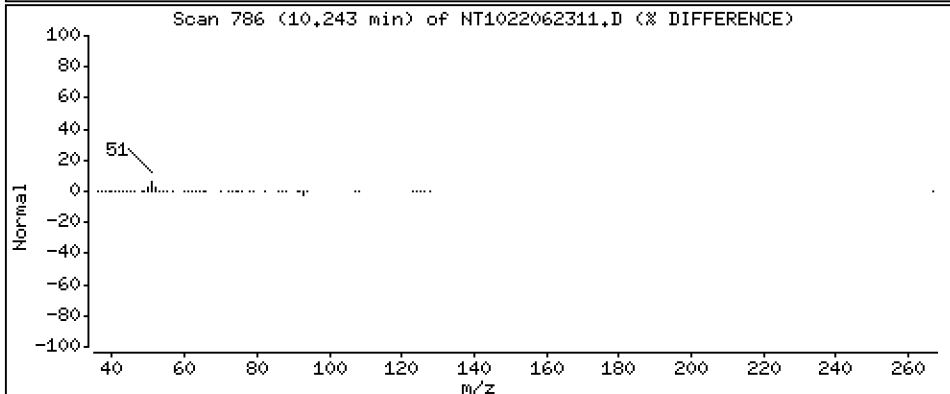
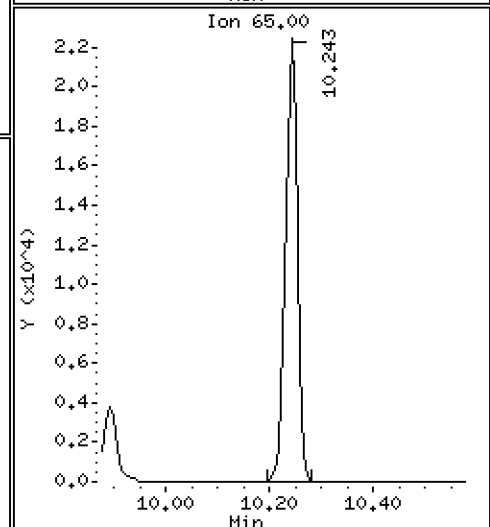
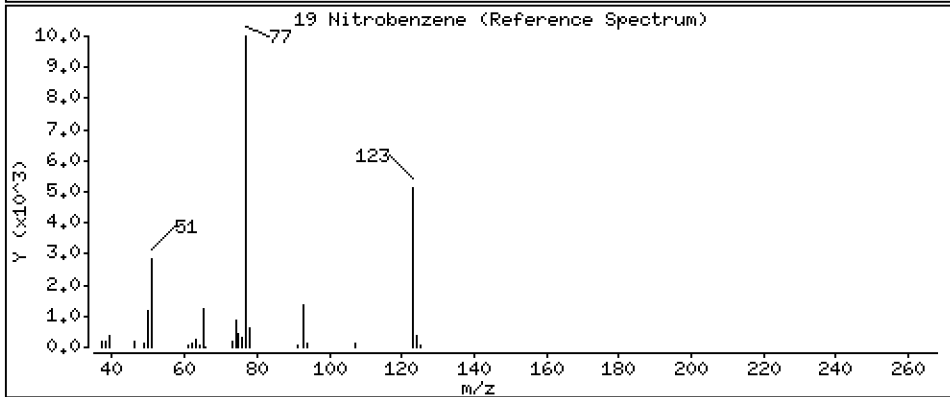
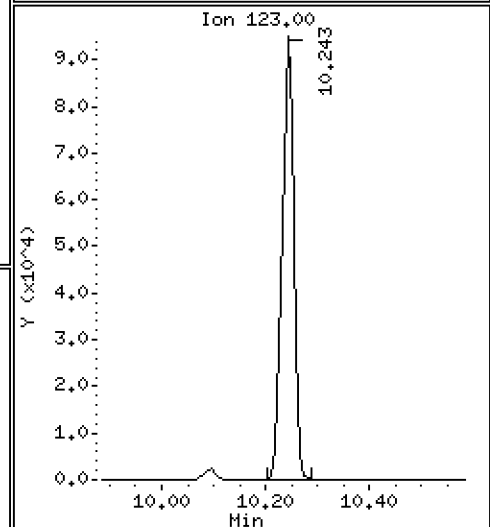
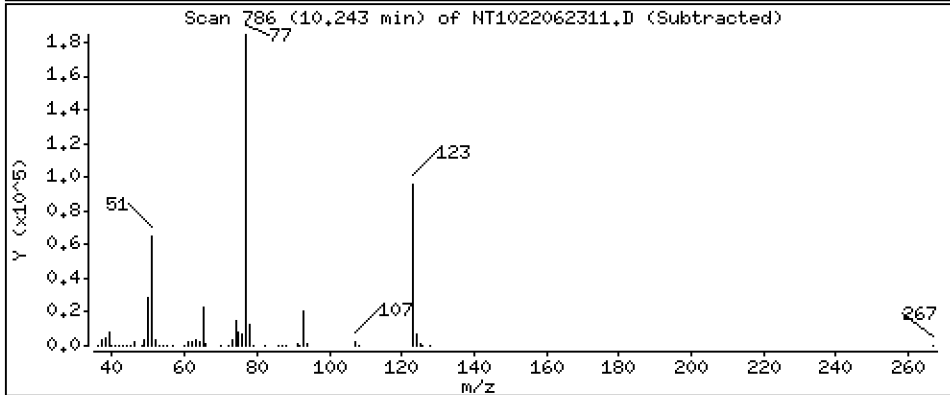
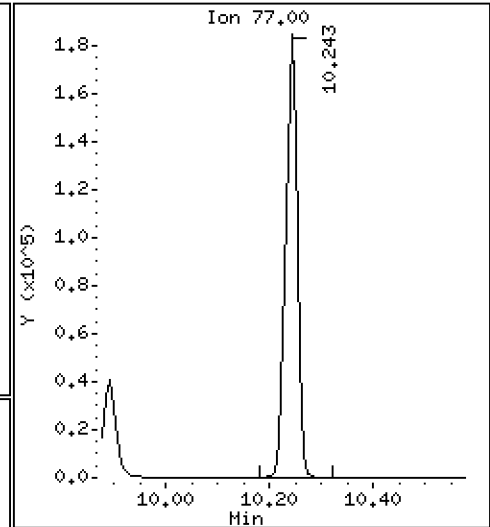
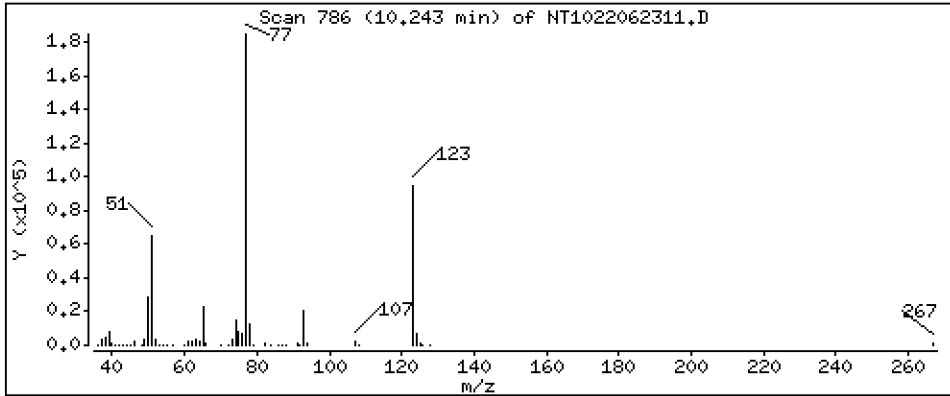
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 5,138 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

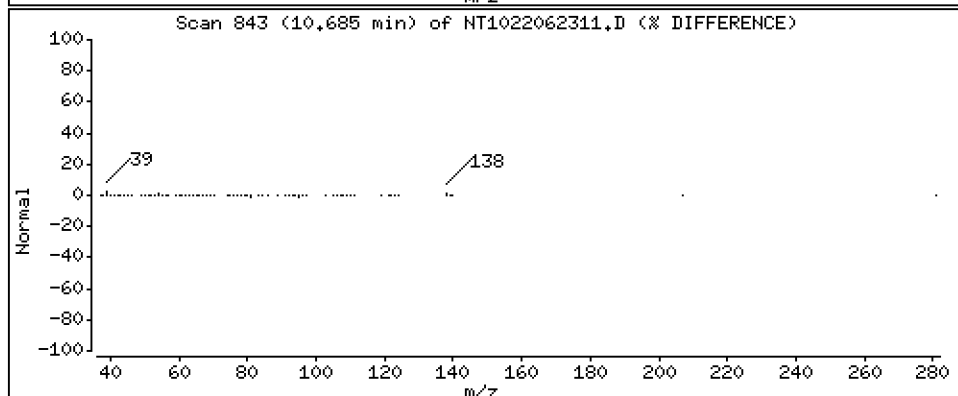
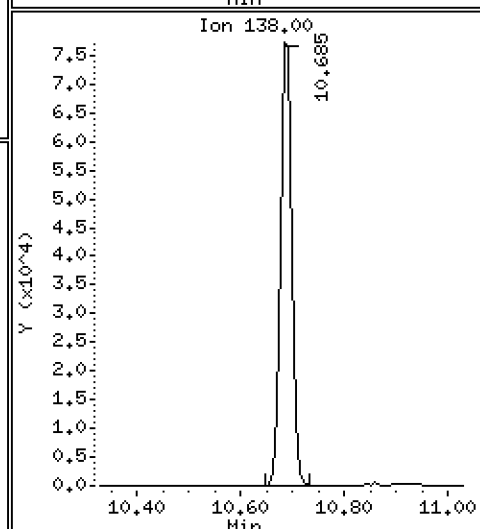
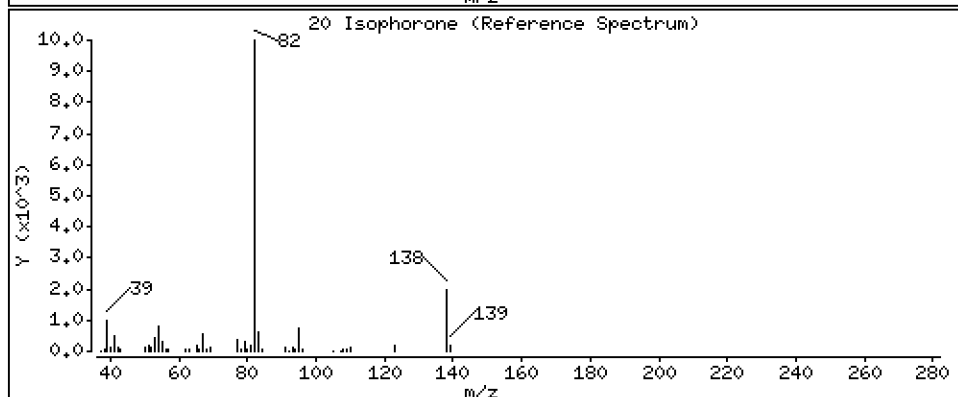
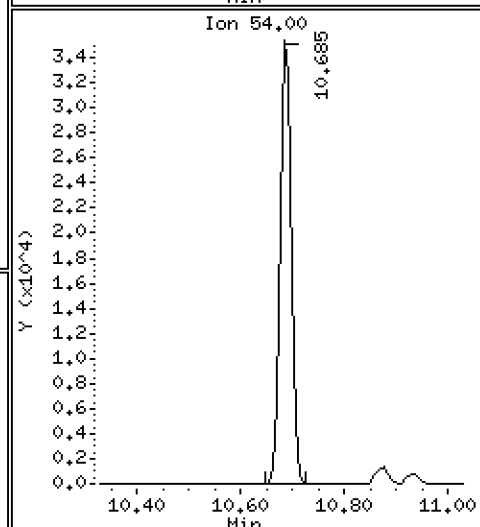
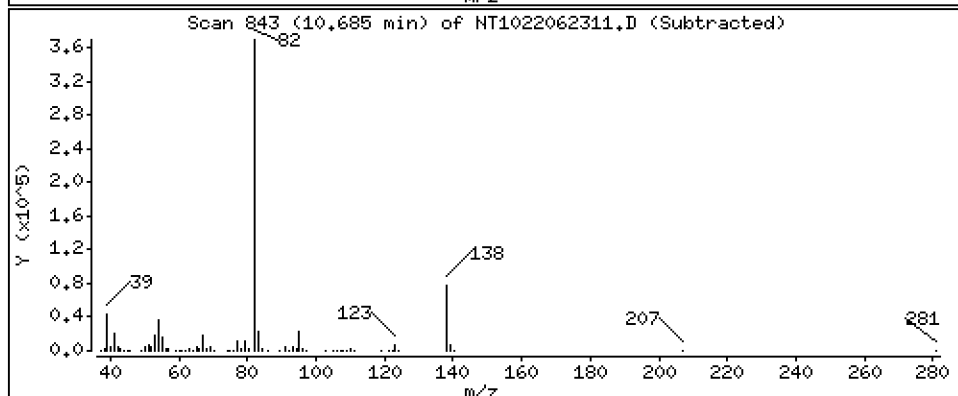
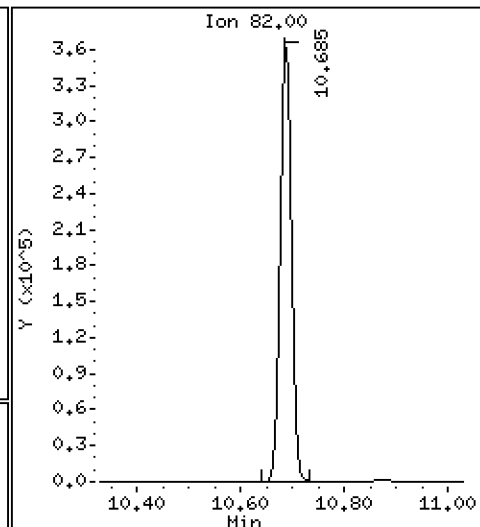
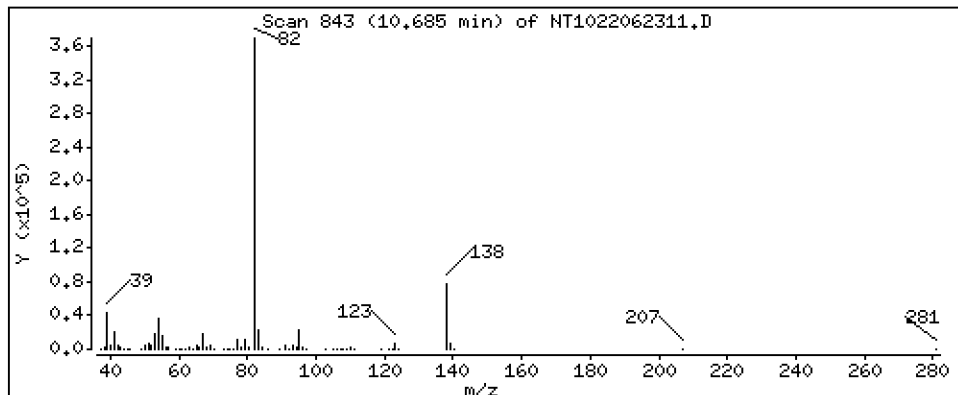
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 7,412 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

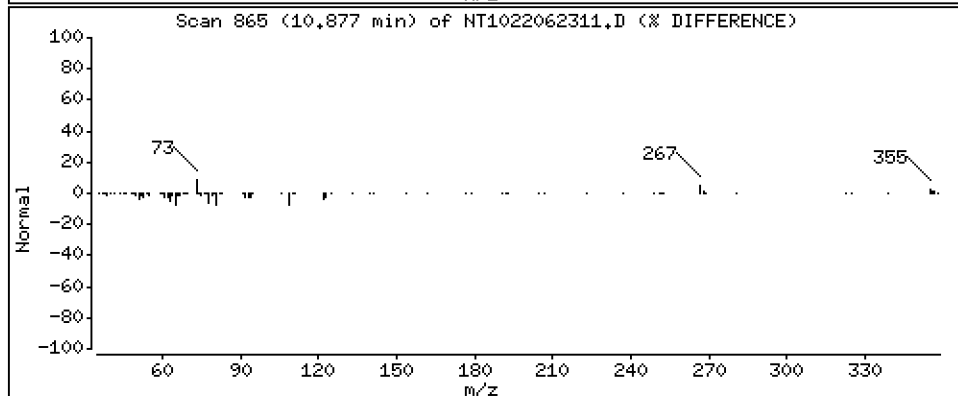
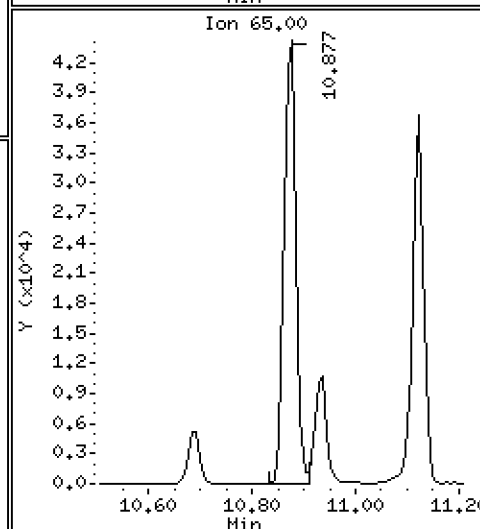
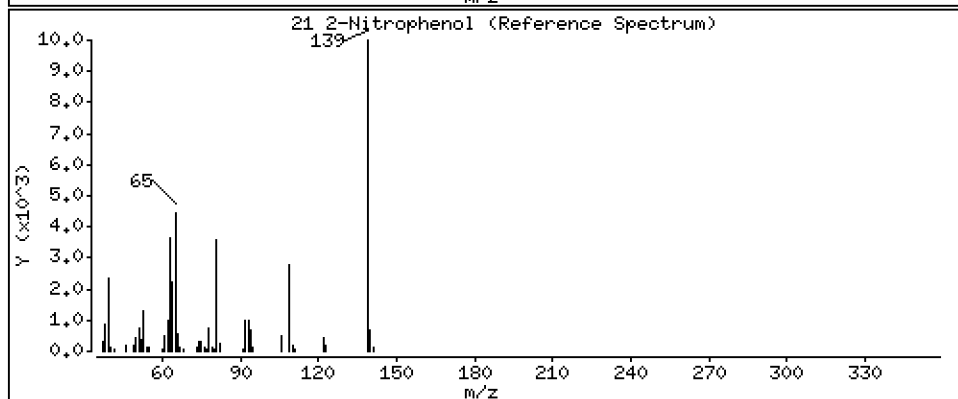
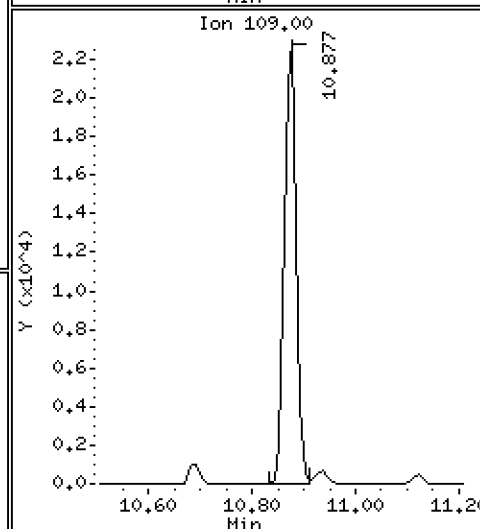
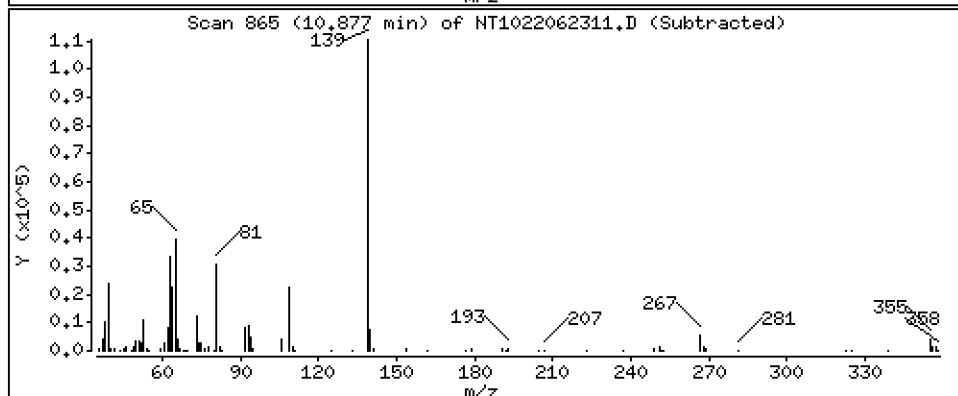
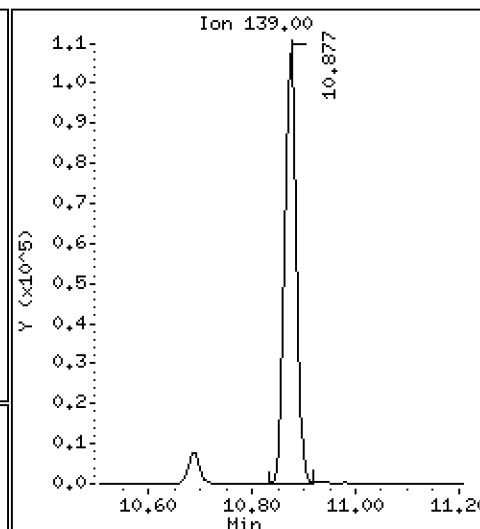
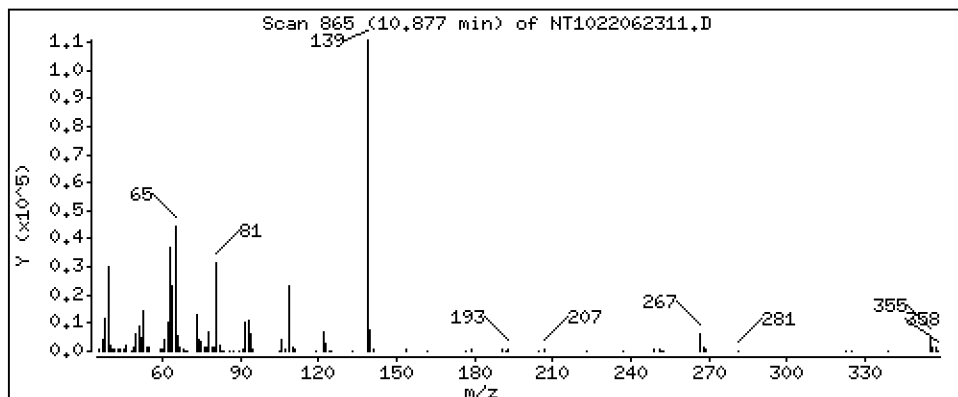
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,128 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

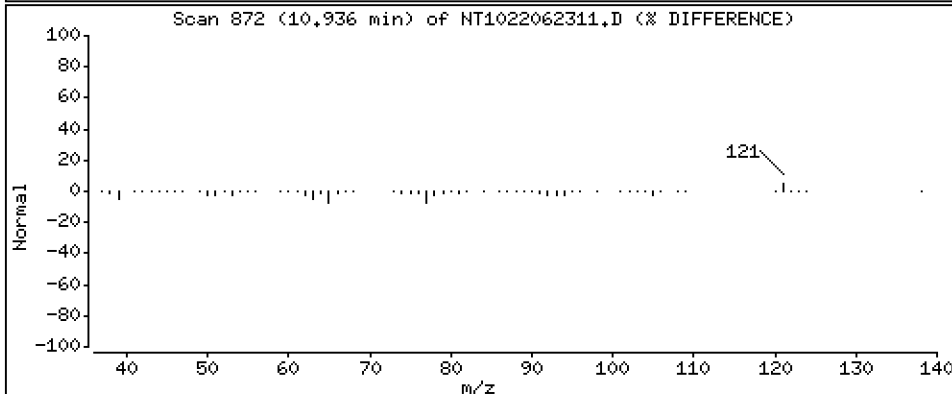
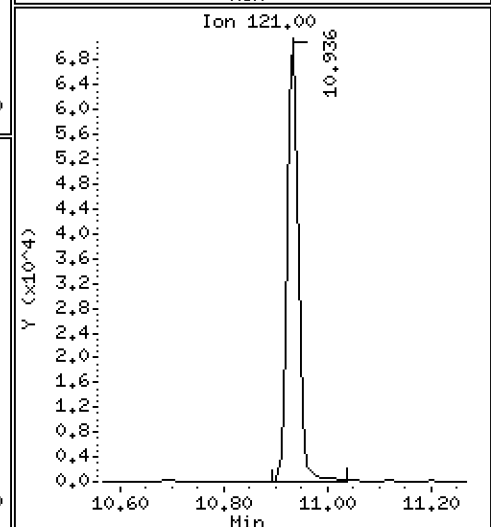
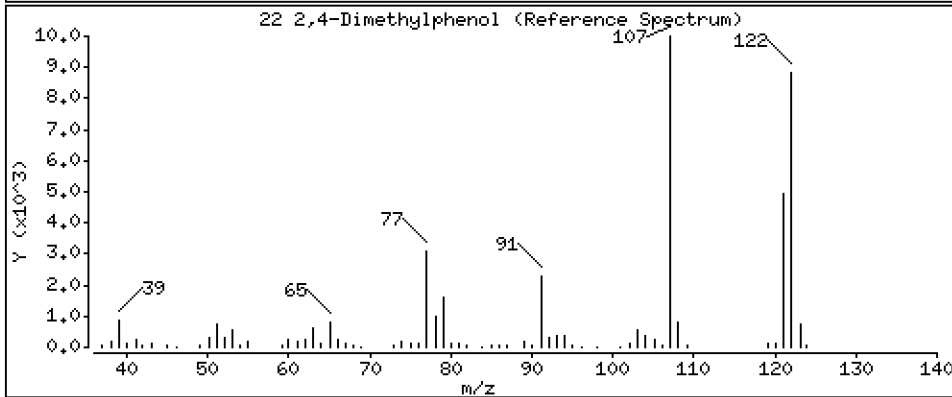
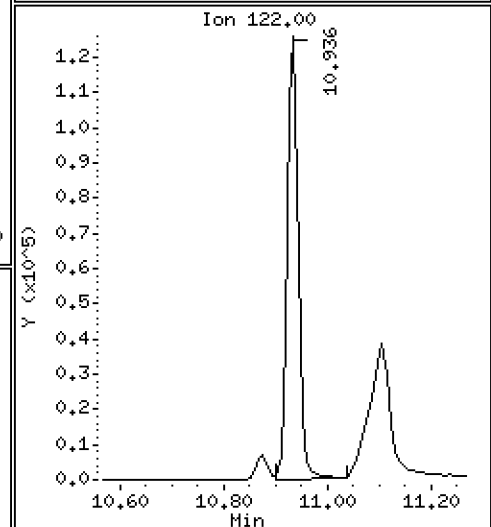
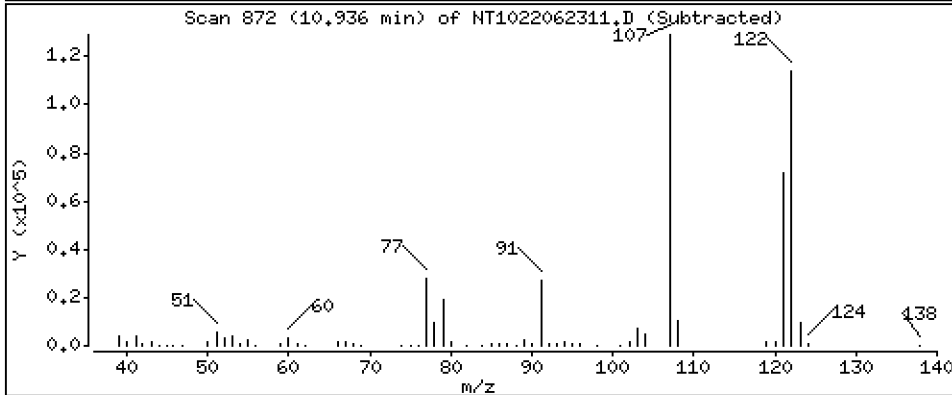
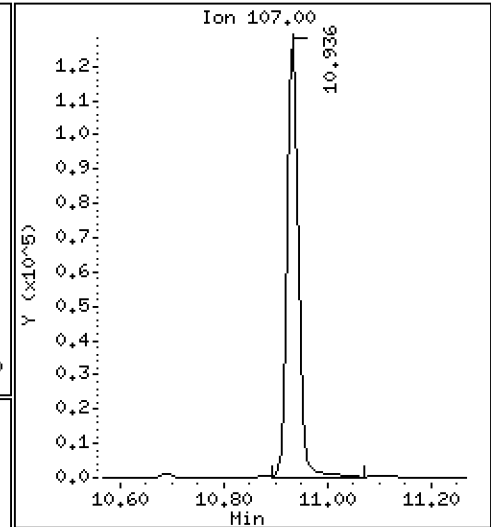
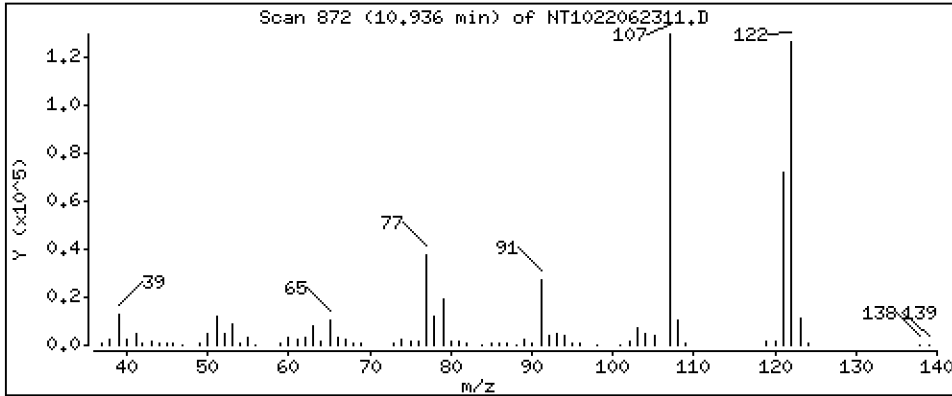
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 4,736 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

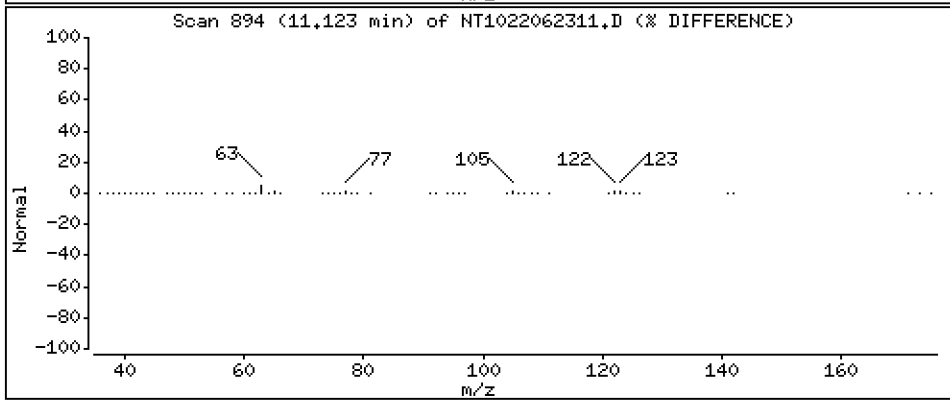
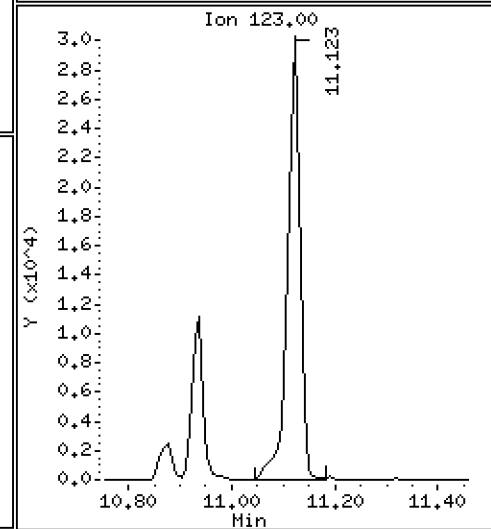
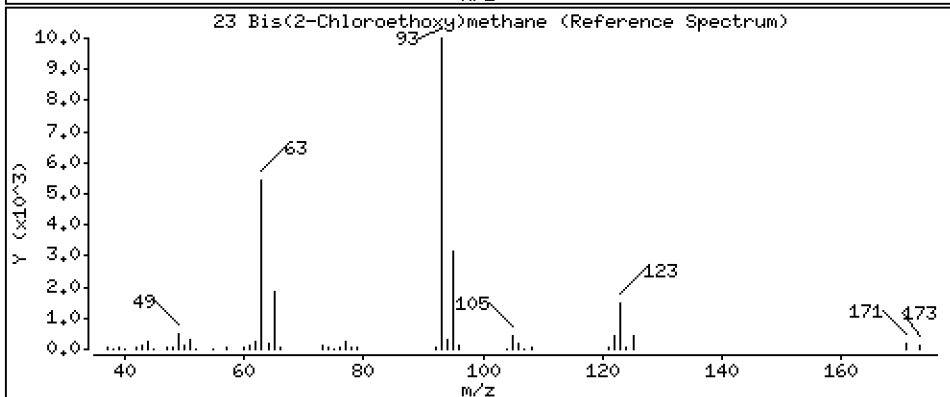
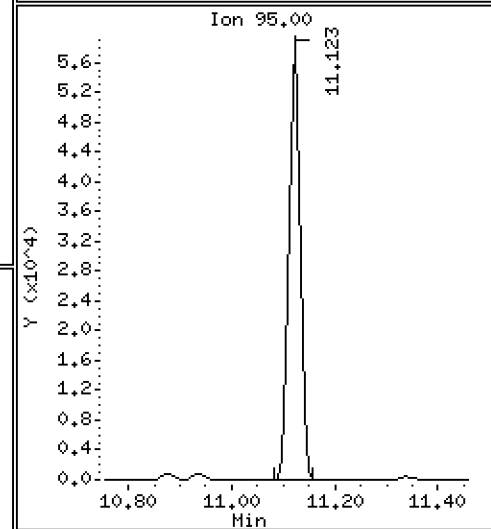
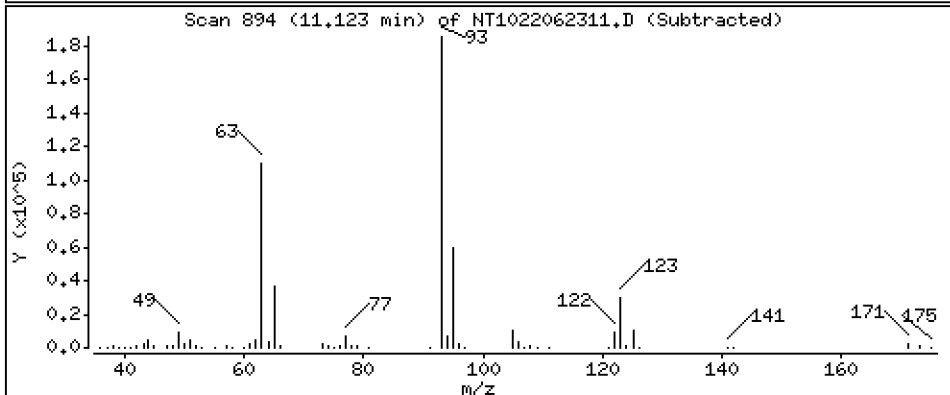
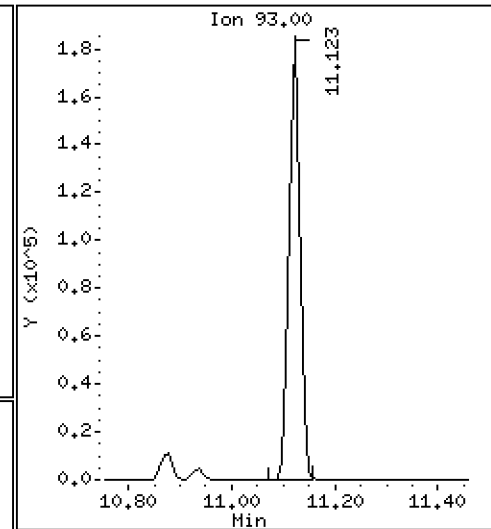
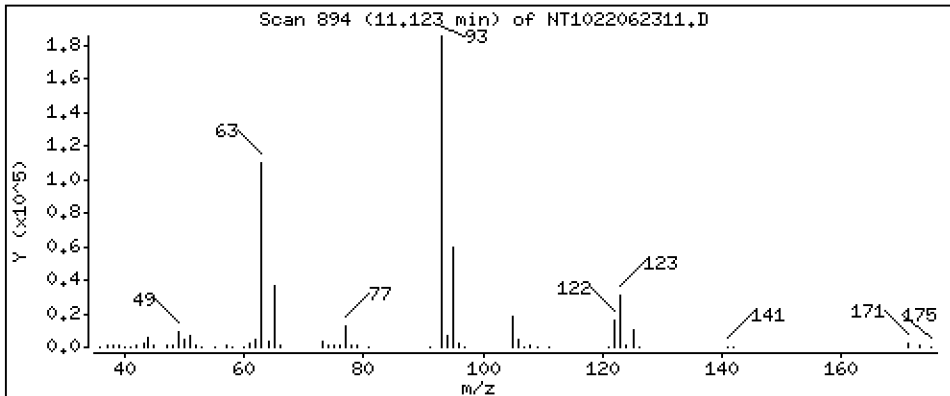
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,735 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

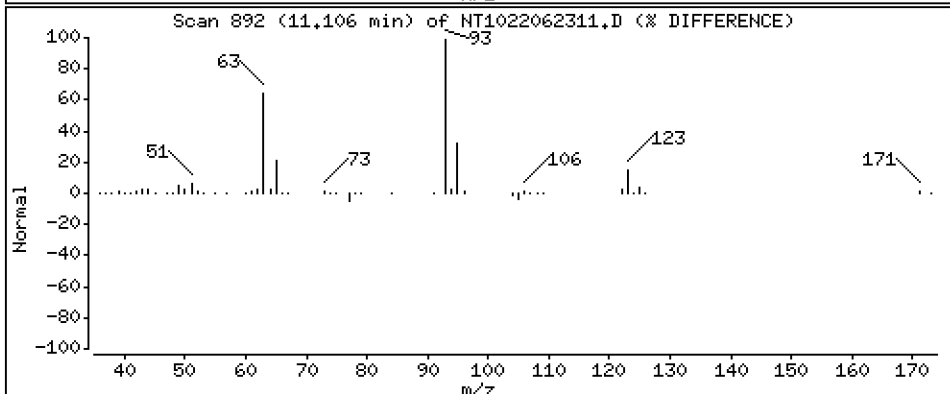
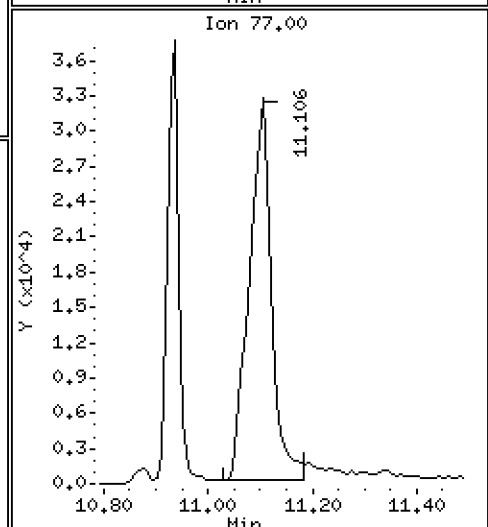
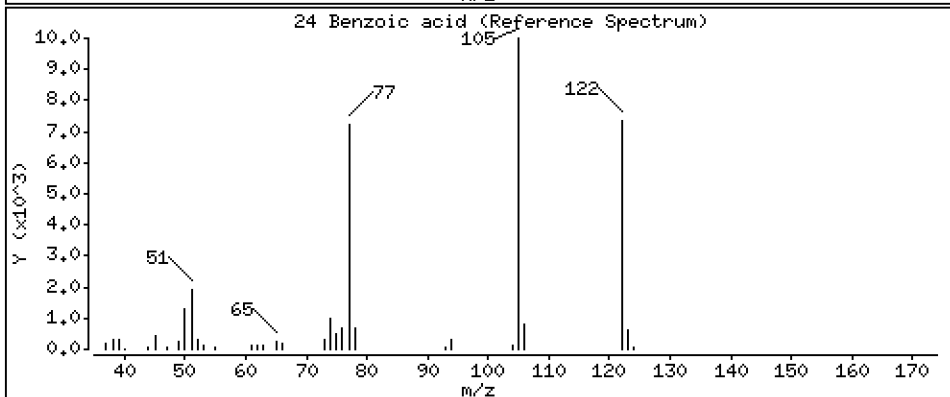
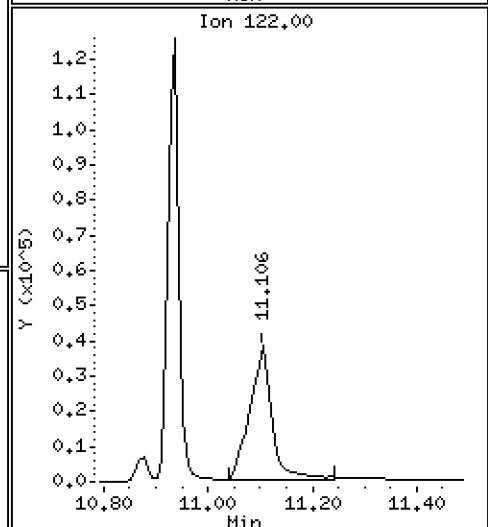
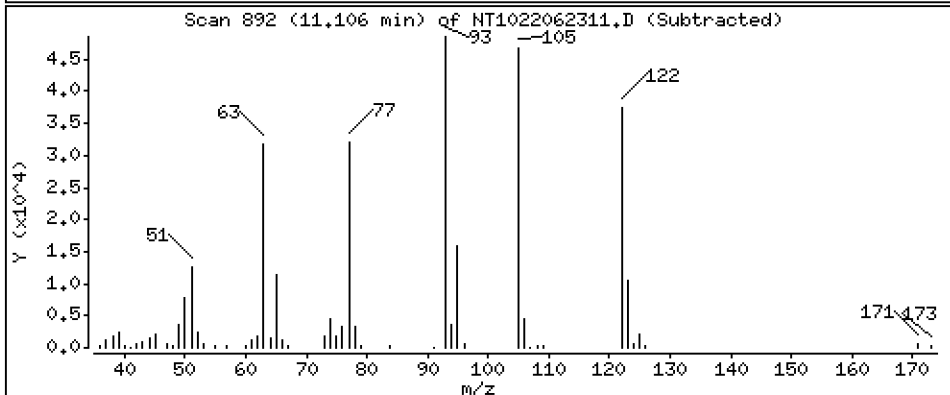
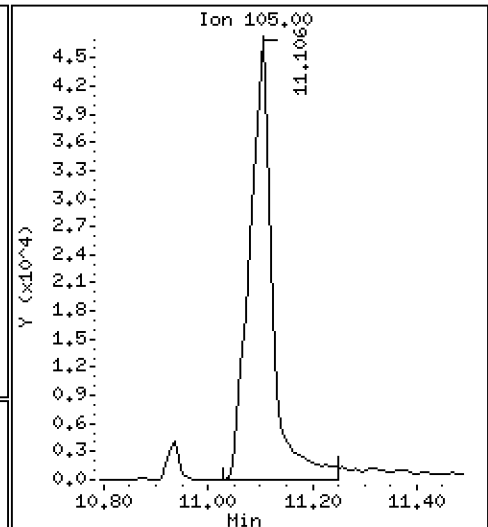
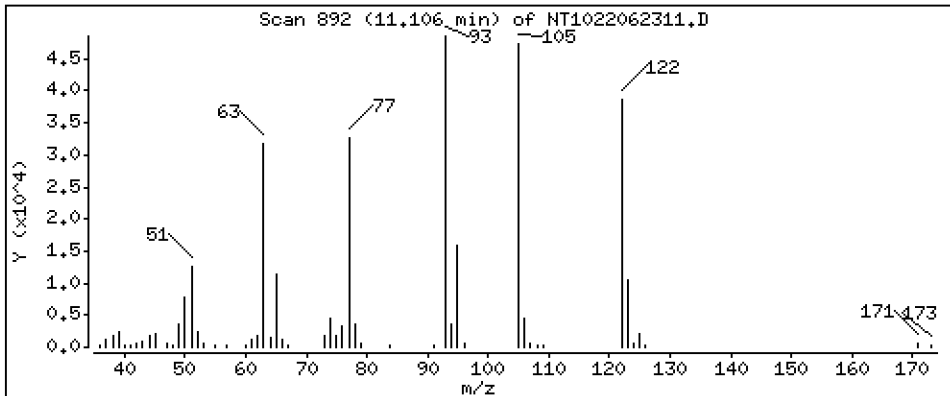
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 6,621 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

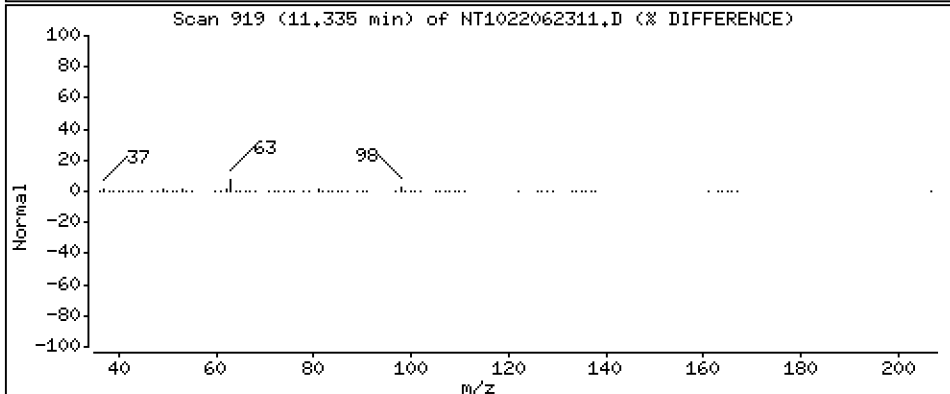
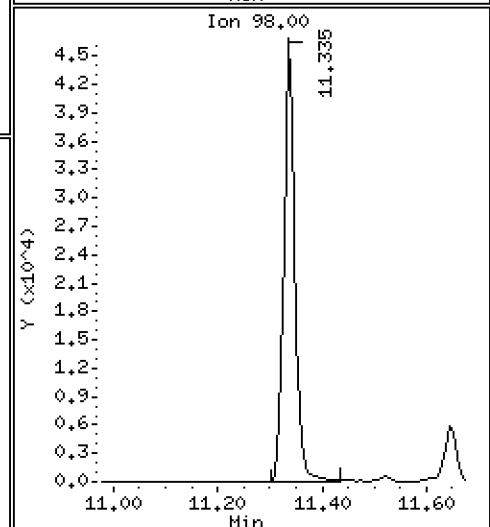
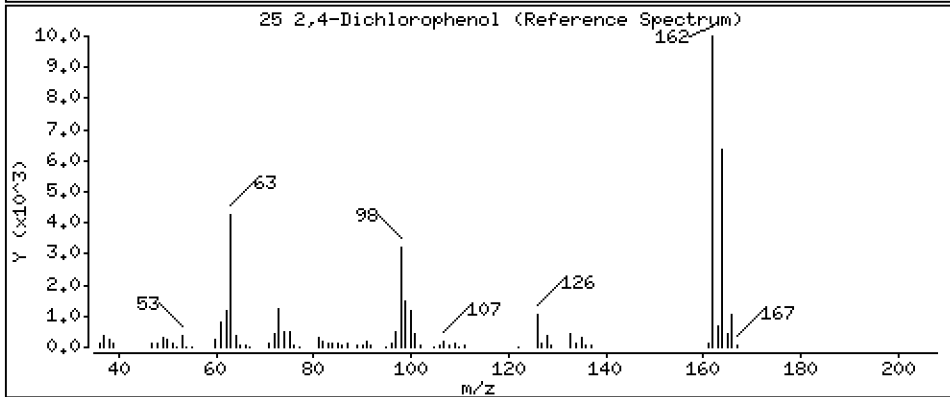
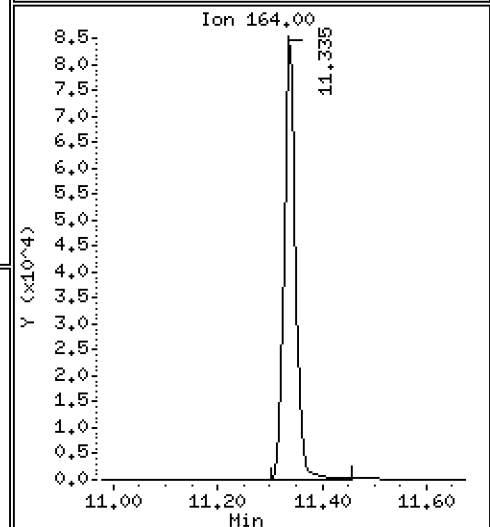
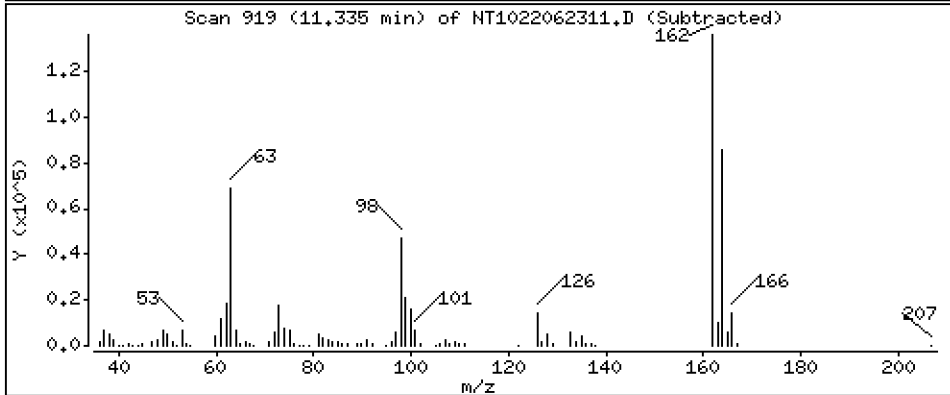
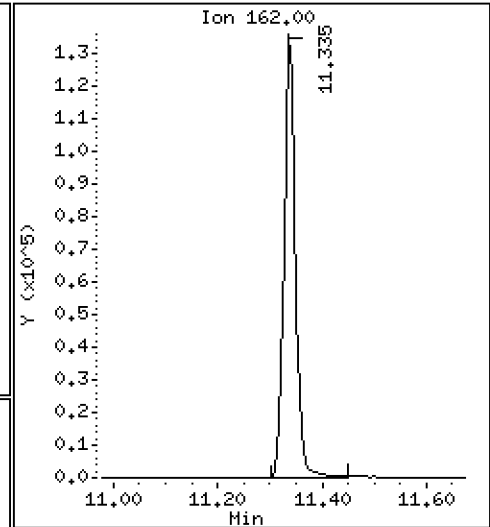
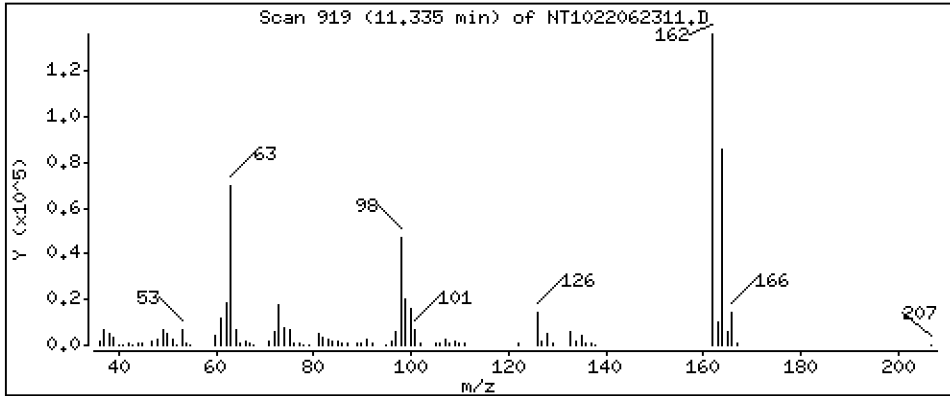
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 5,545 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

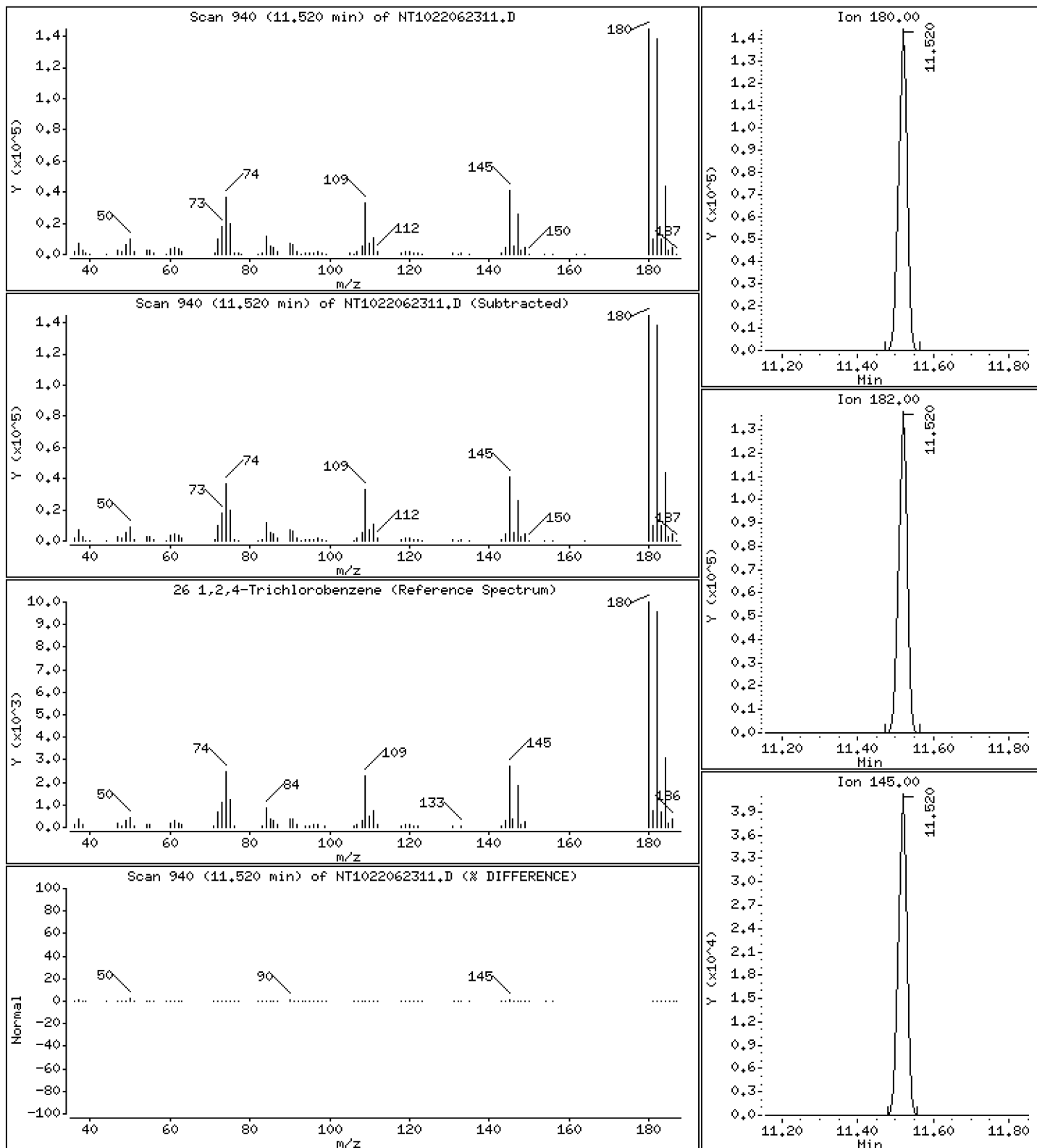
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,888 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

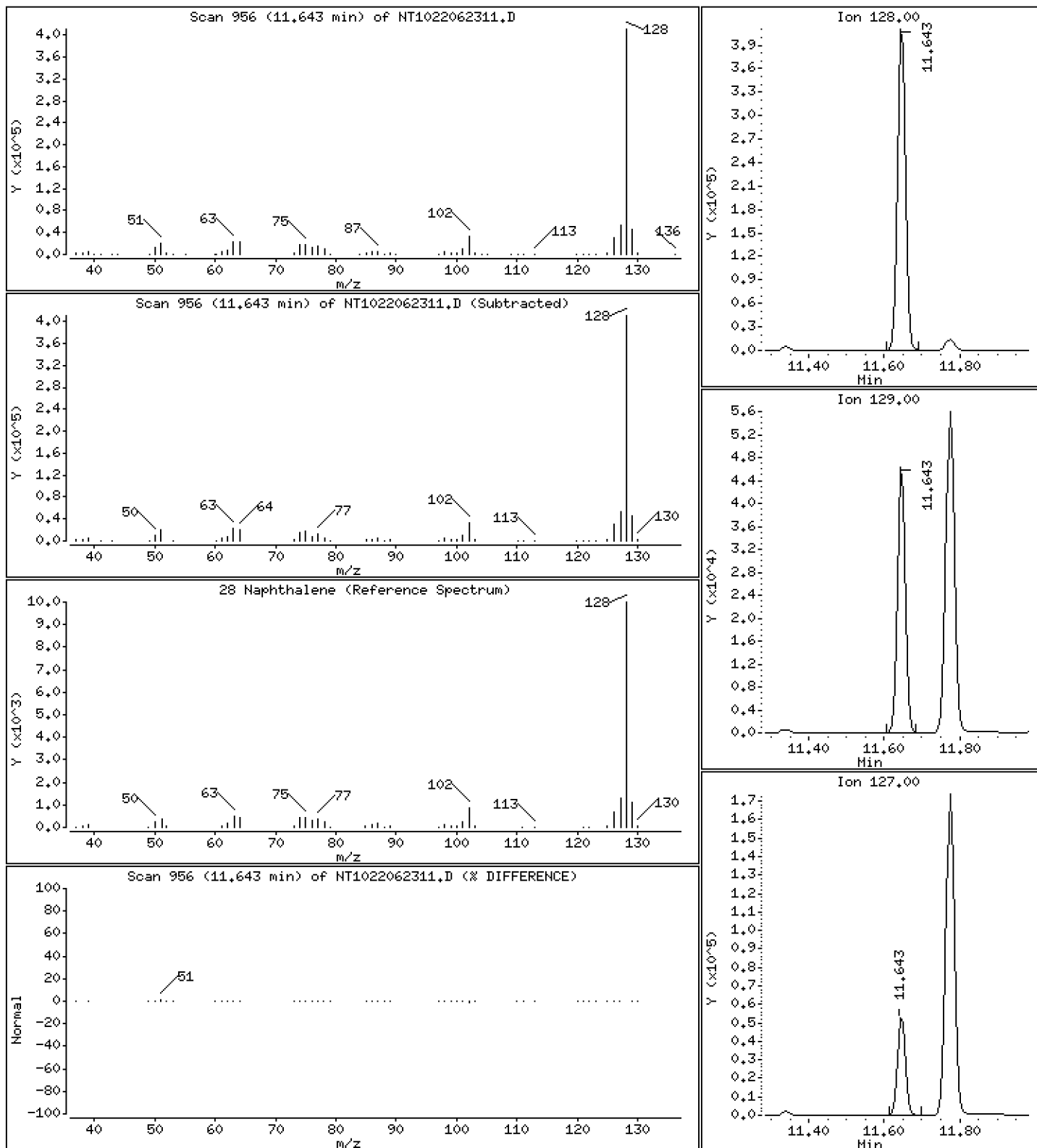
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,947 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

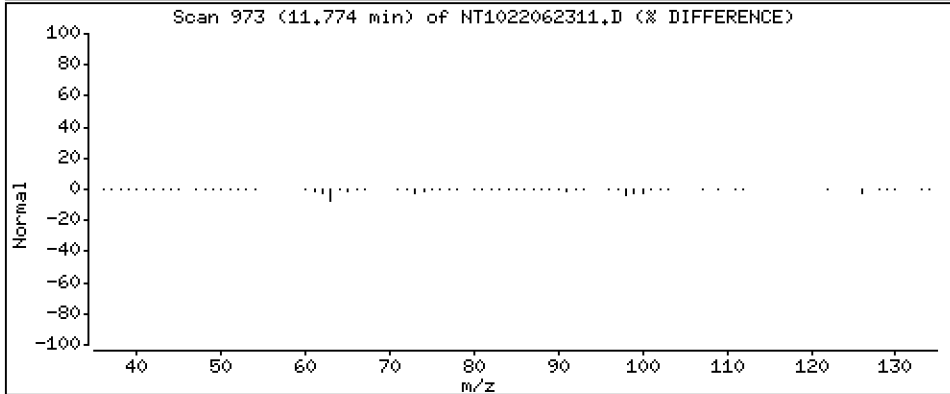
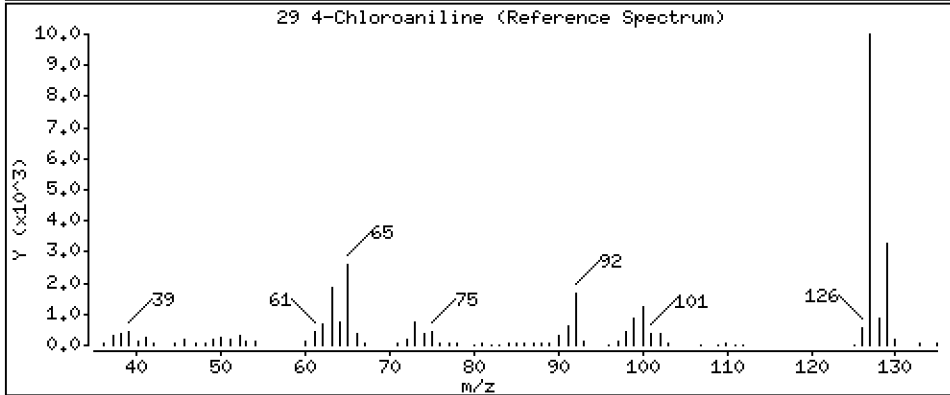
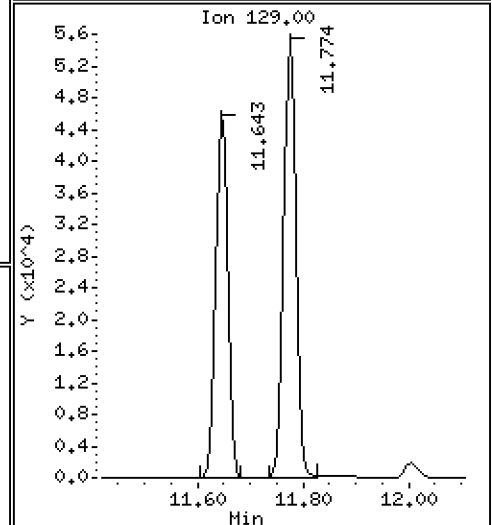
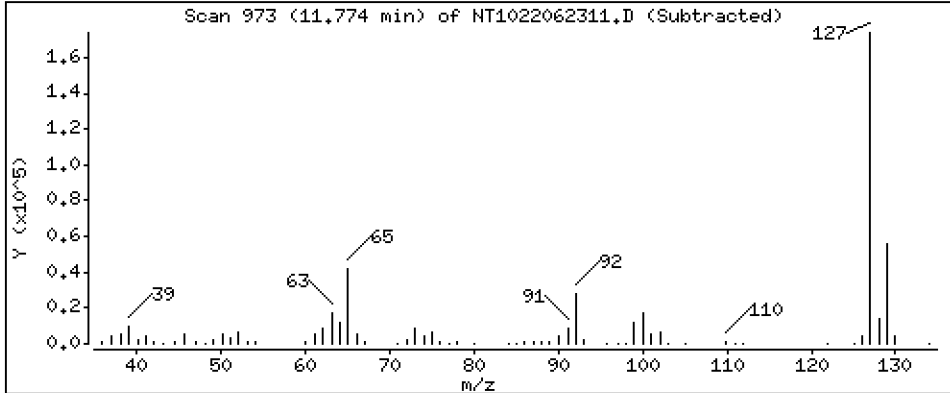
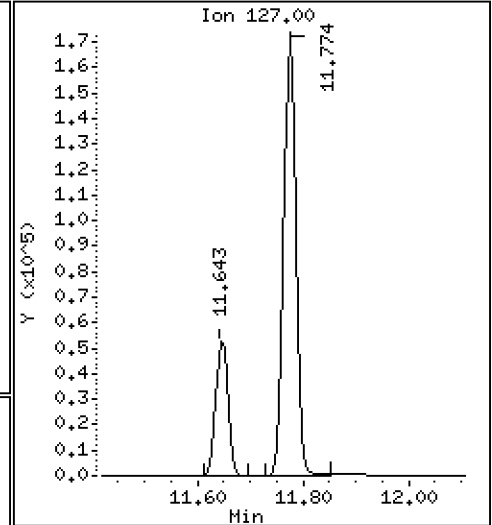
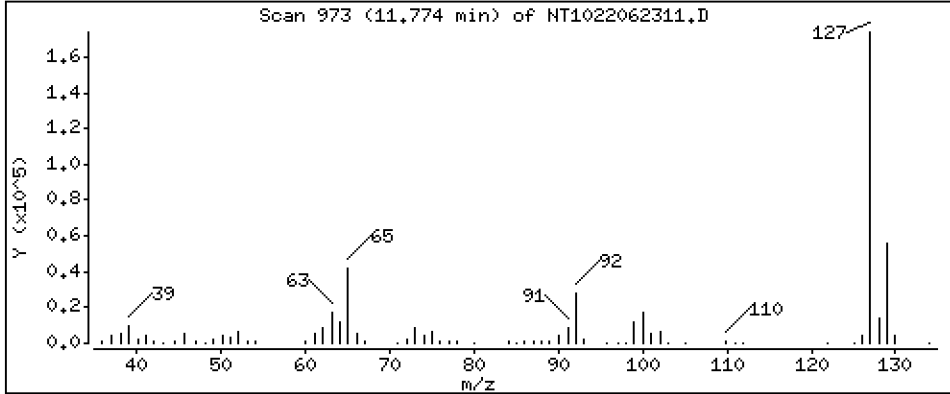
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 4,646 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

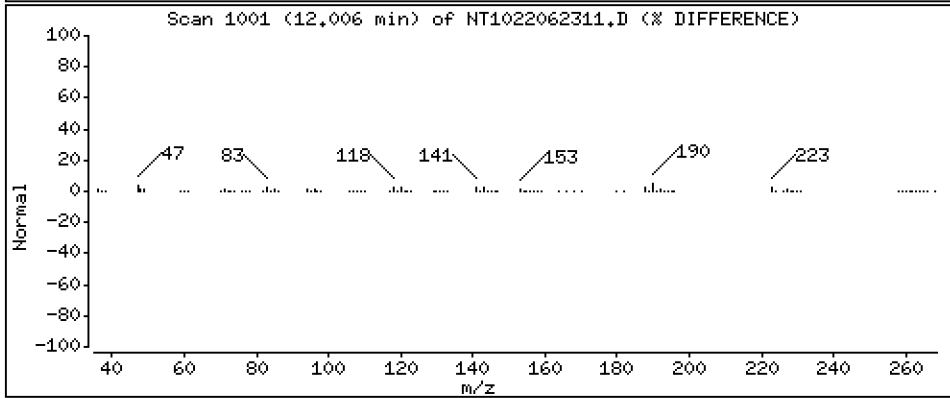
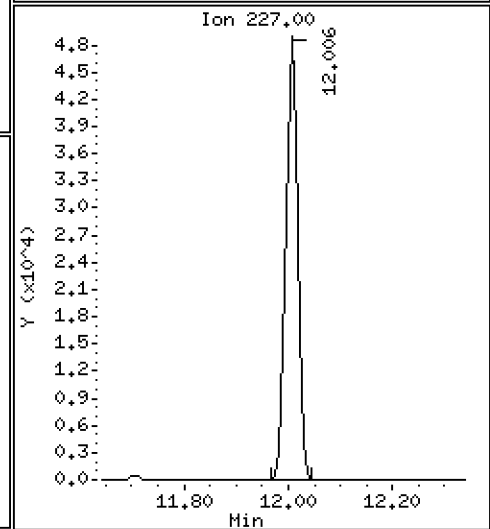
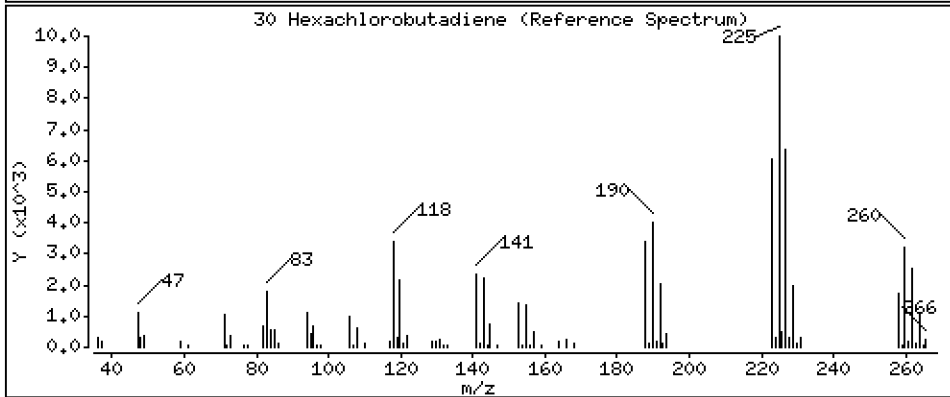
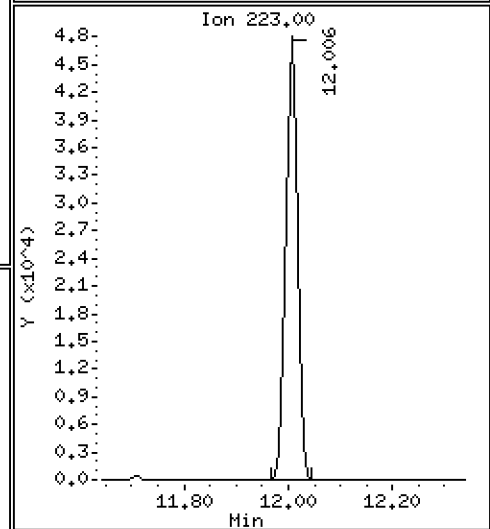
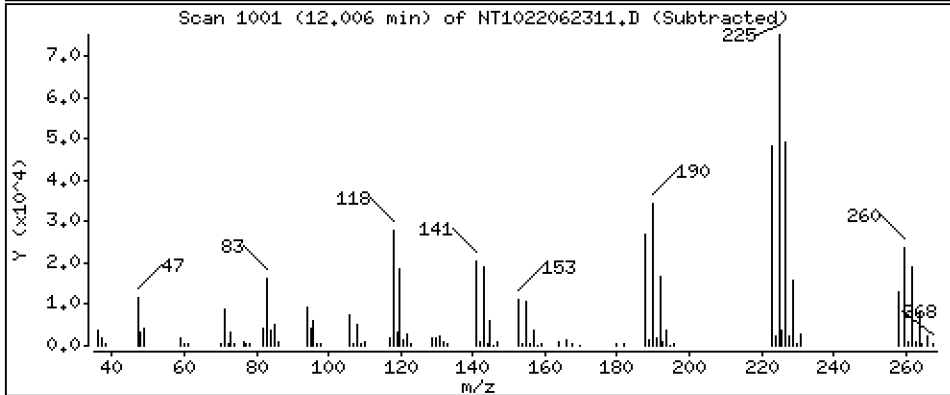
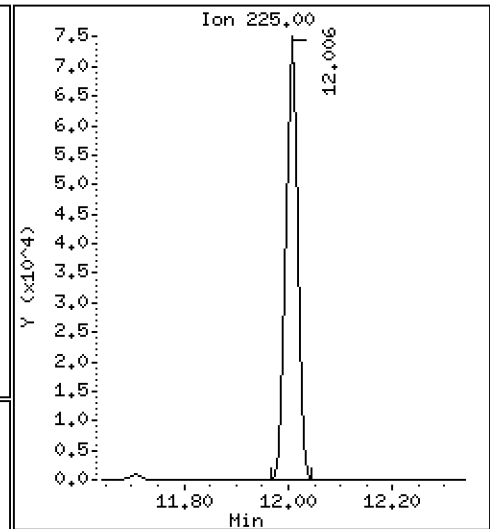
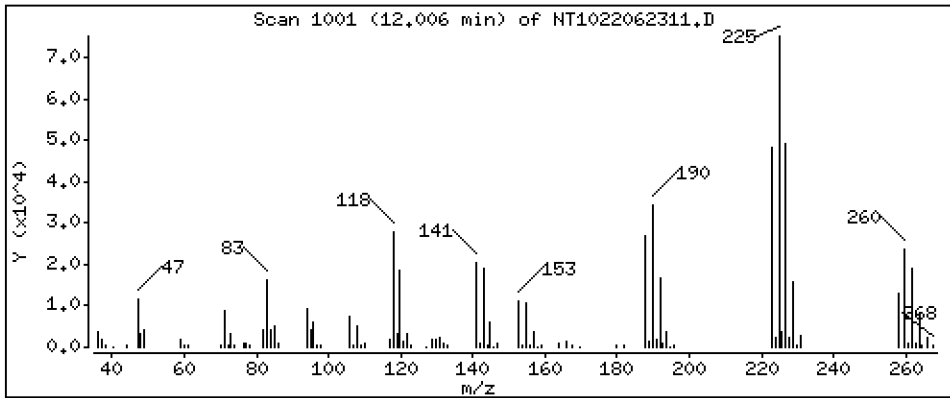
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 5,339 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

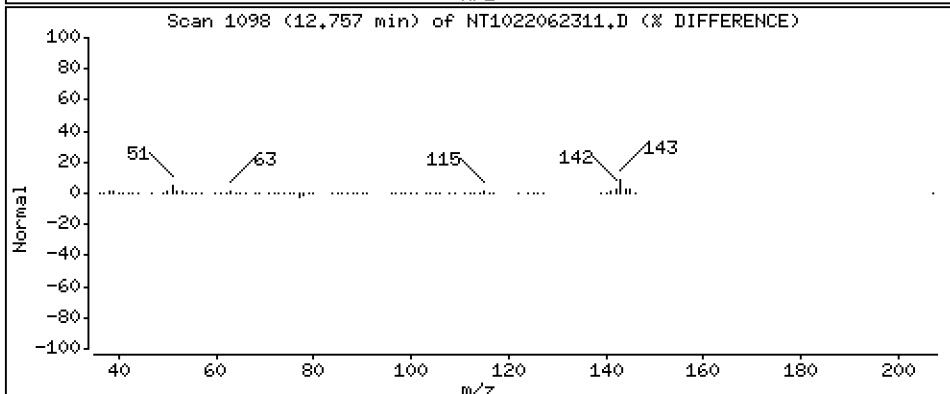
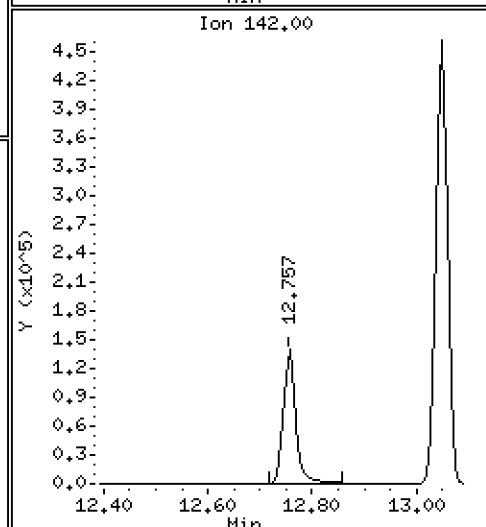
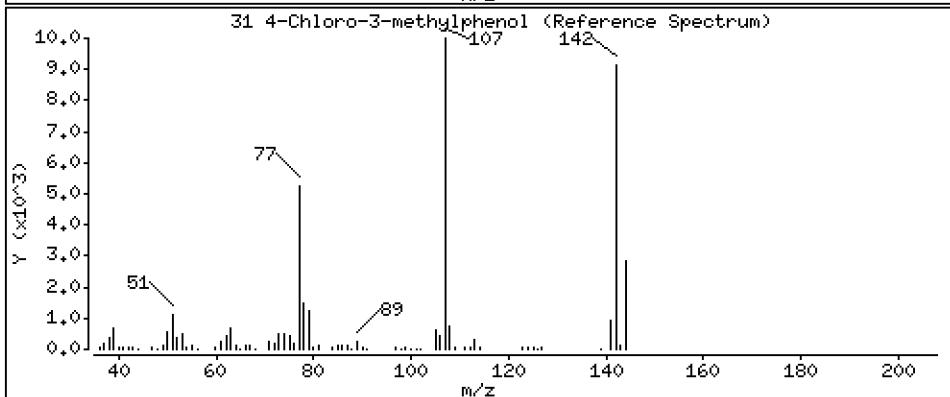
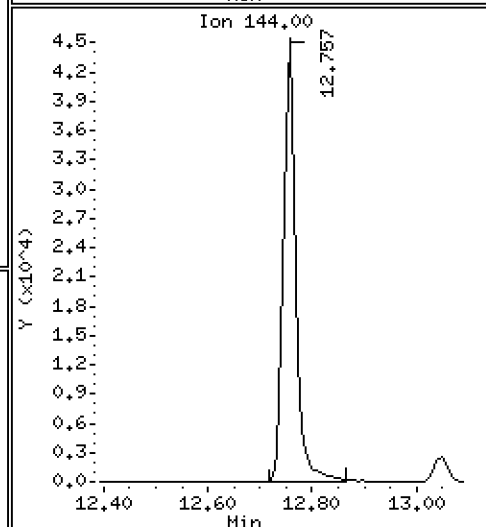
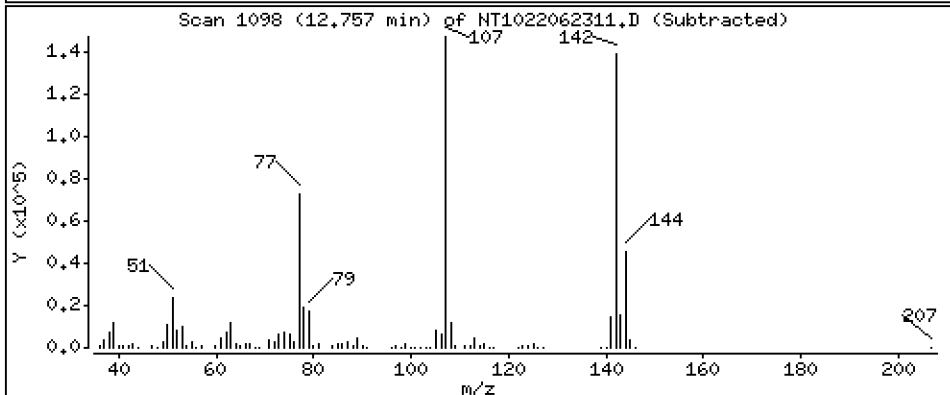
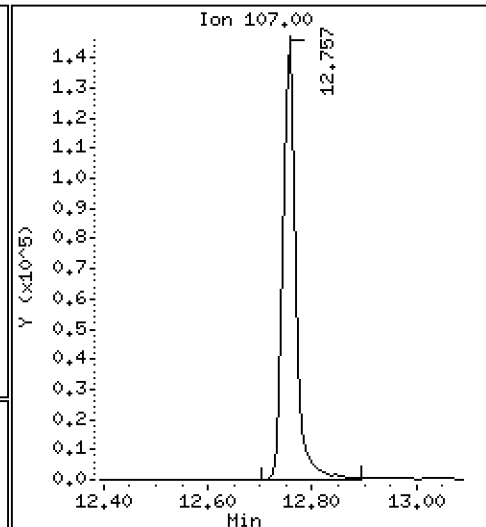
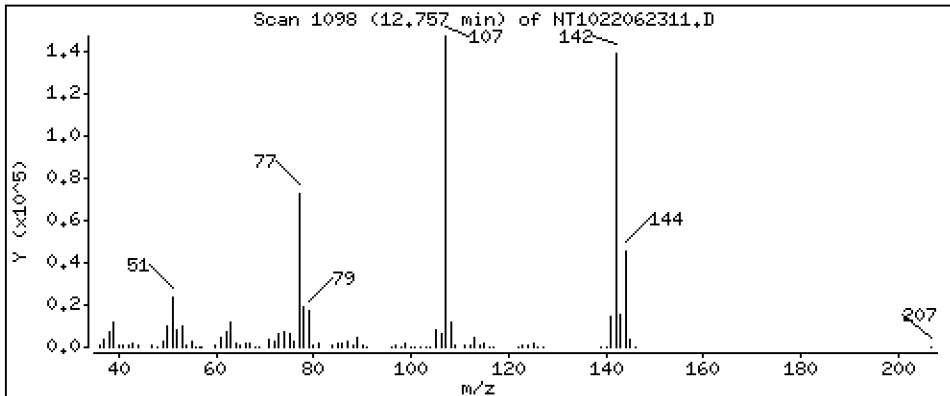
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 4,853 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

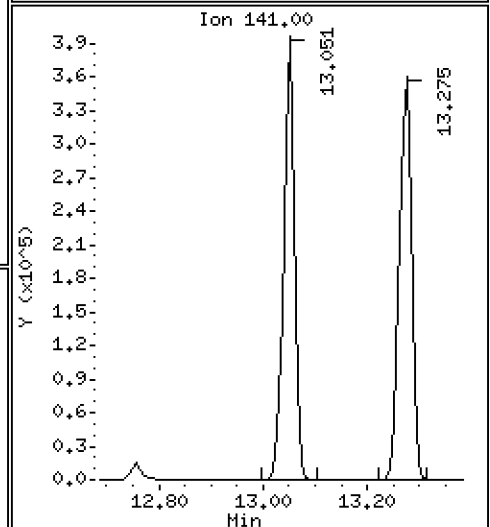
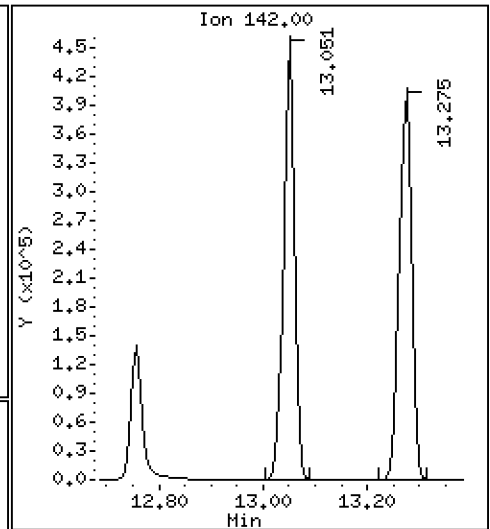
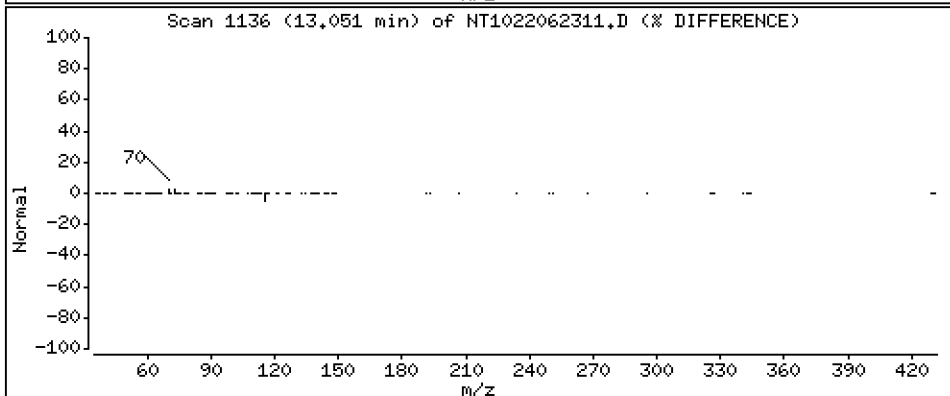
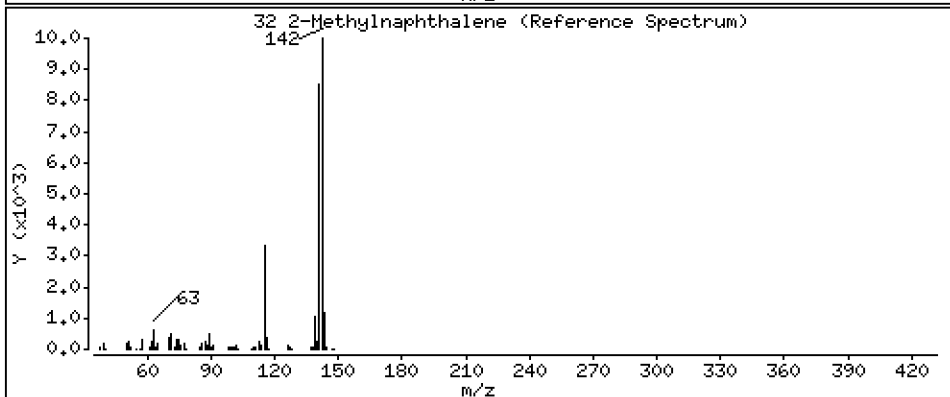
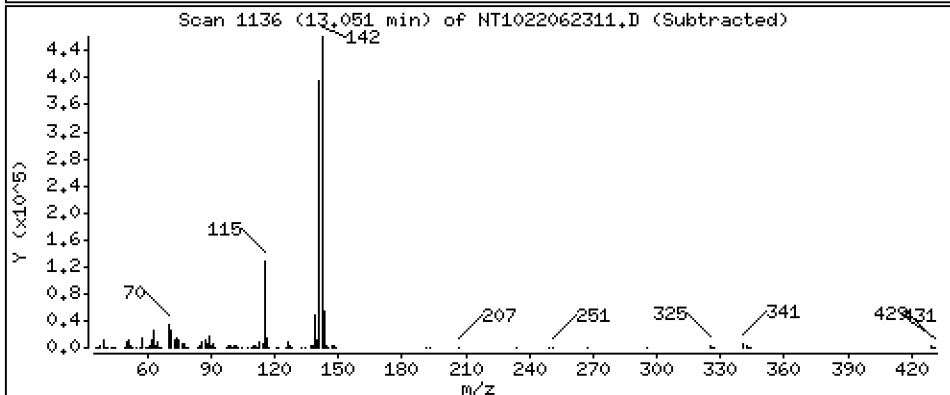
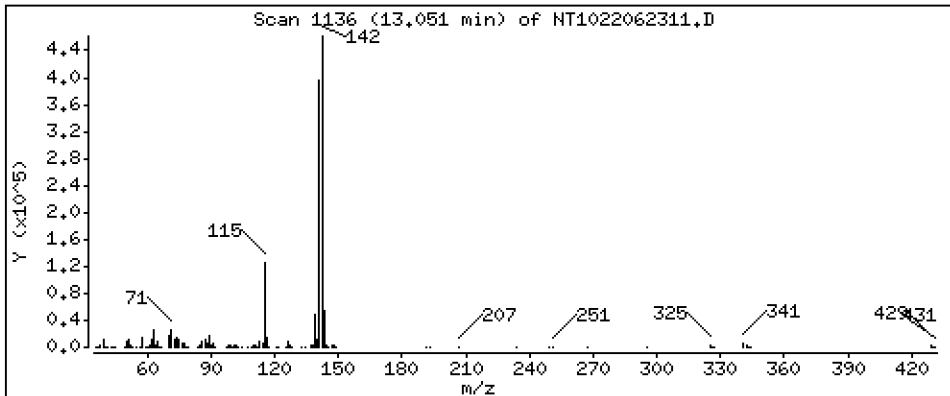
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 5,214 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

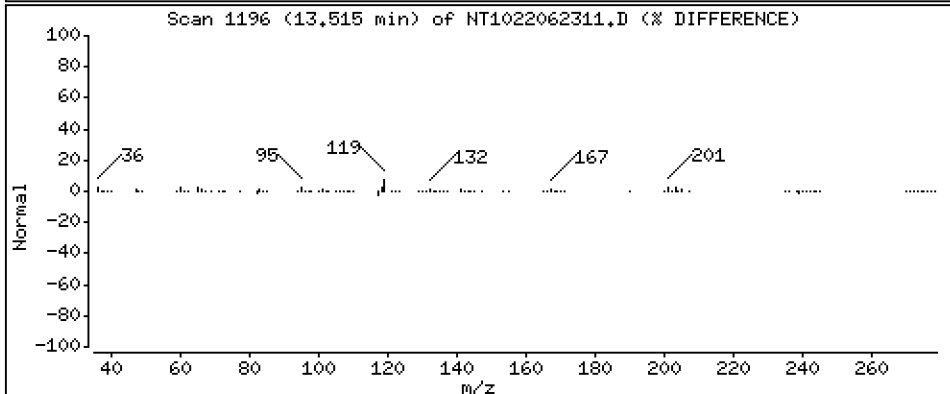
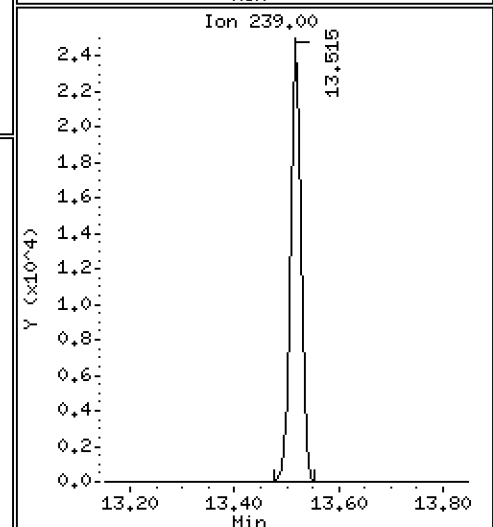
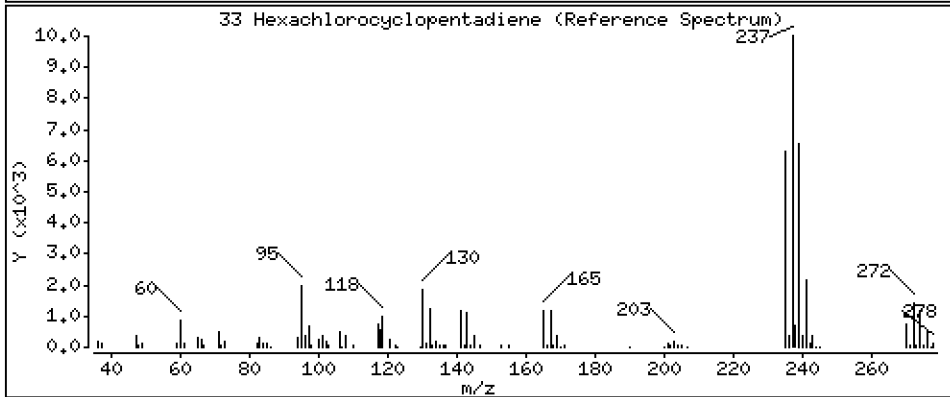
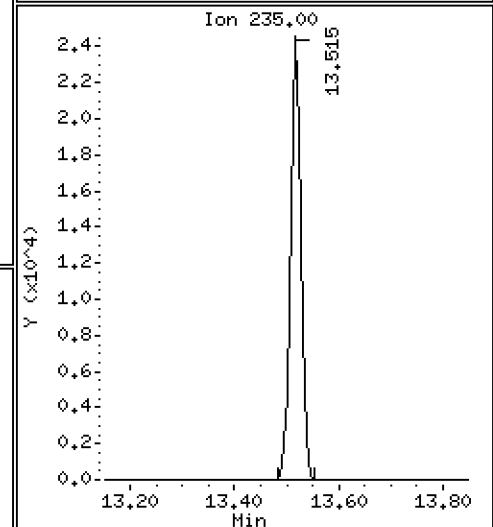
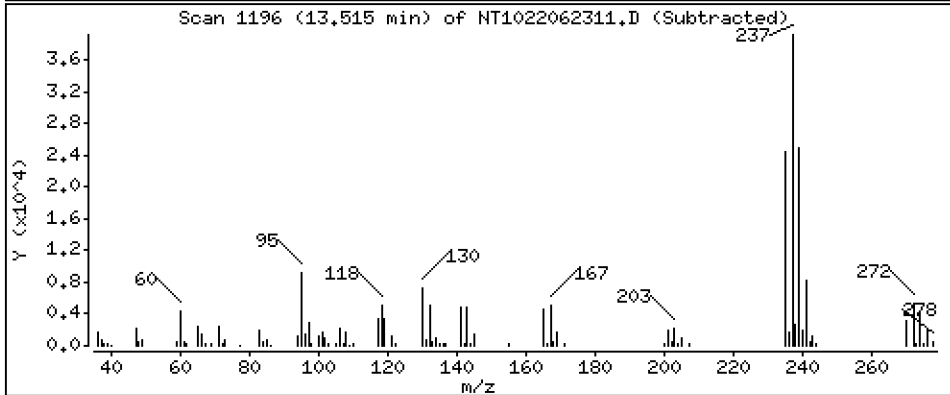
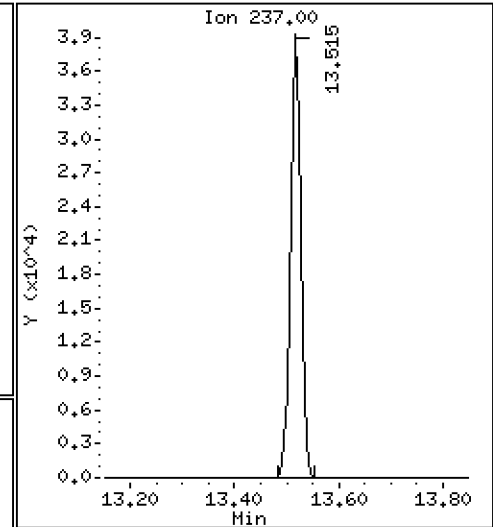
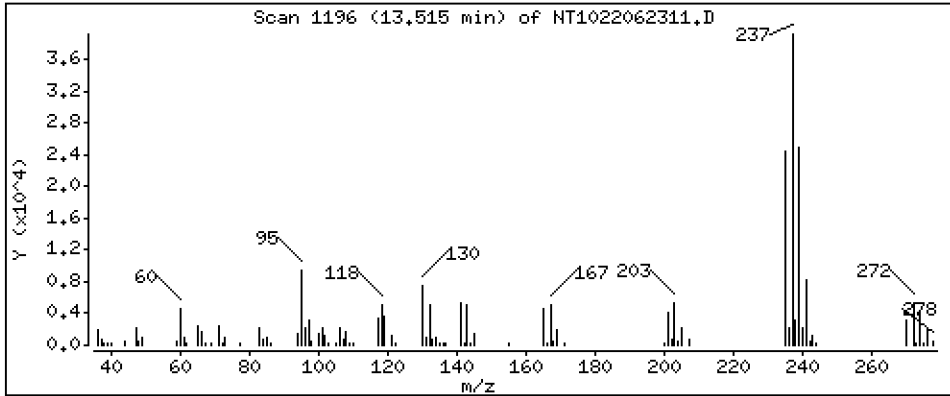
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 3,326 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

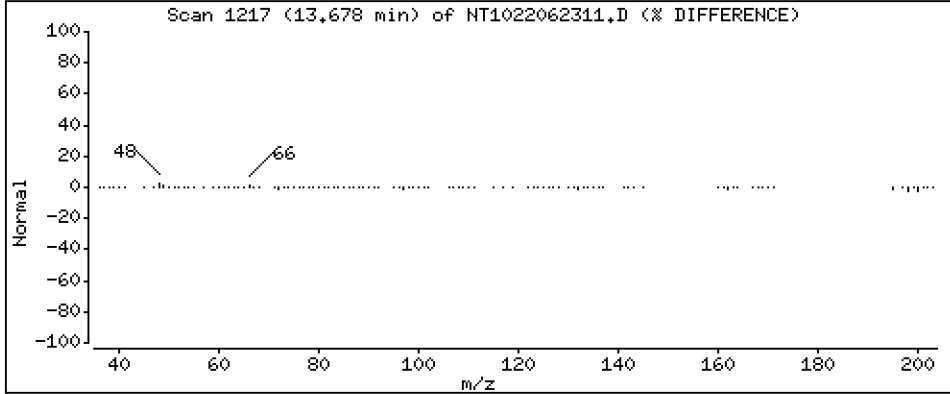
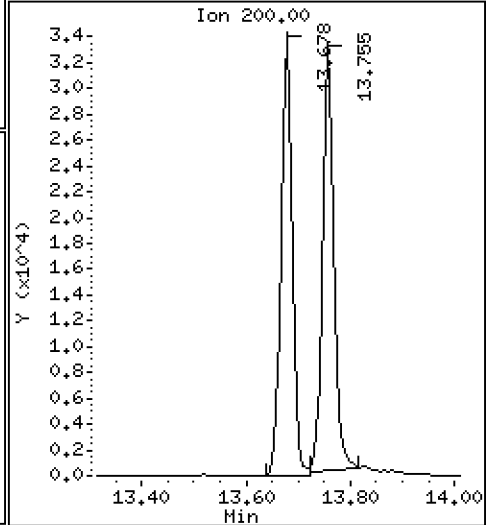
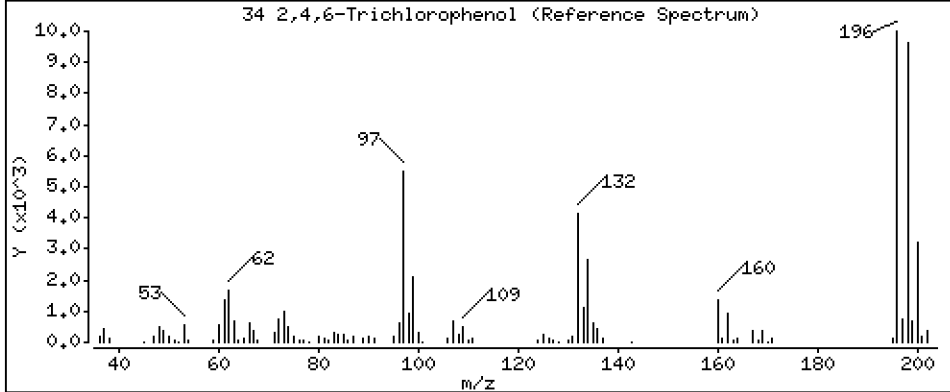
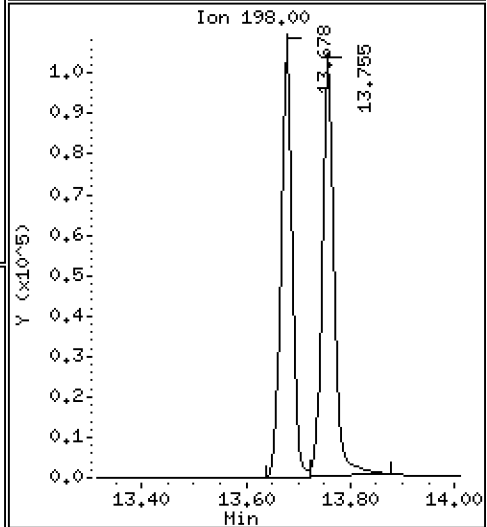
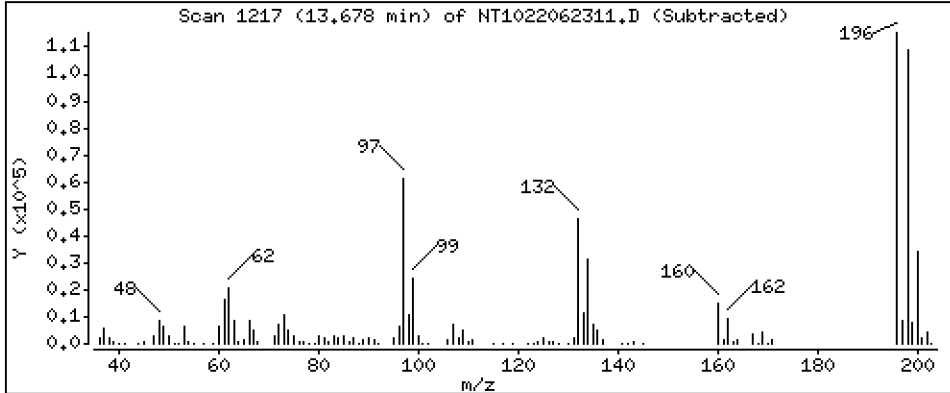
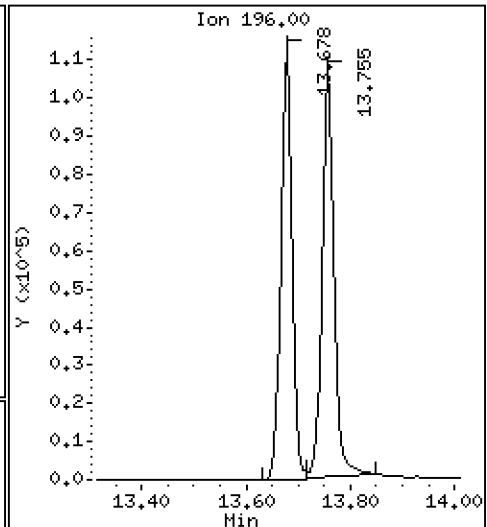
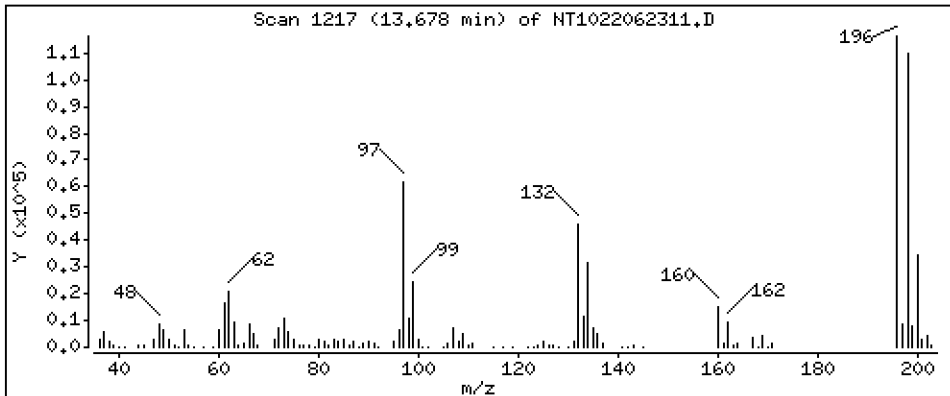
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 5,242 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

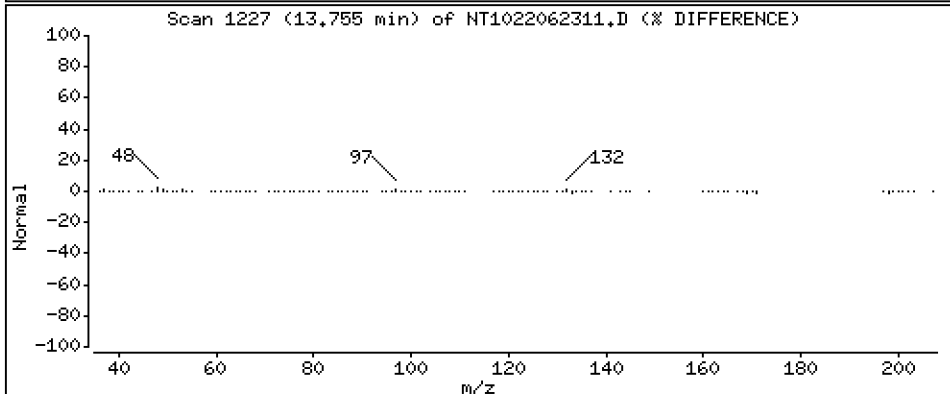
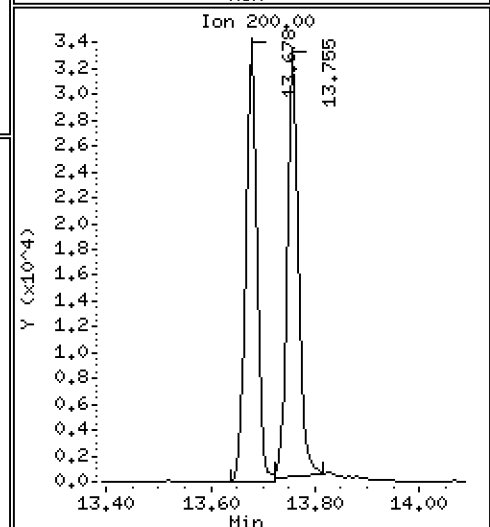
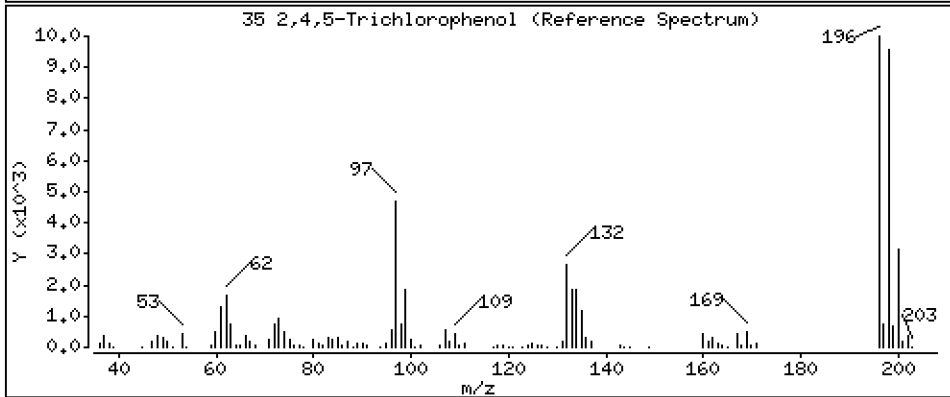
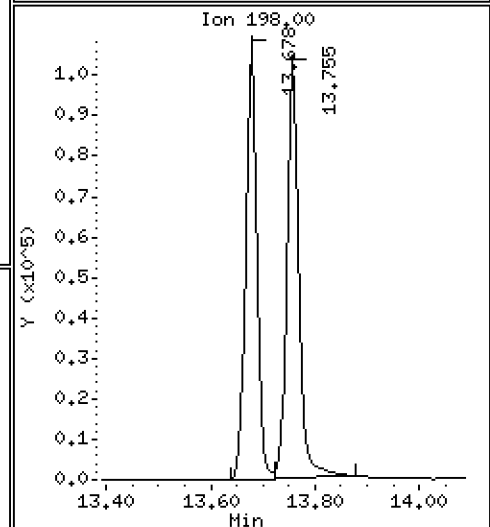
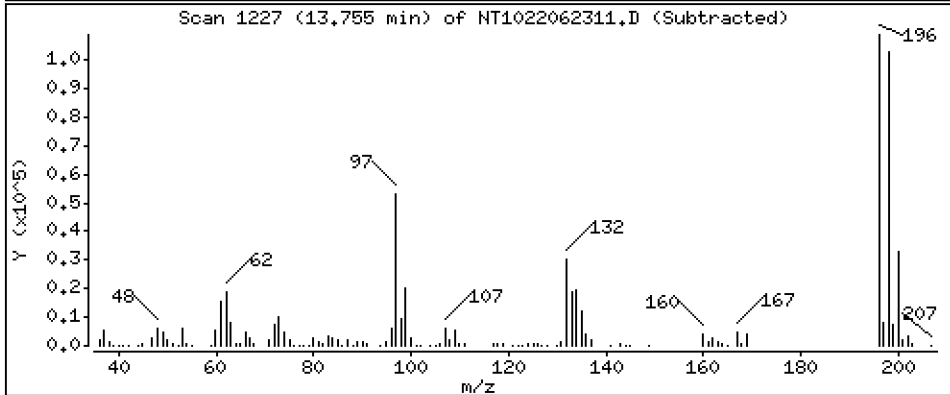
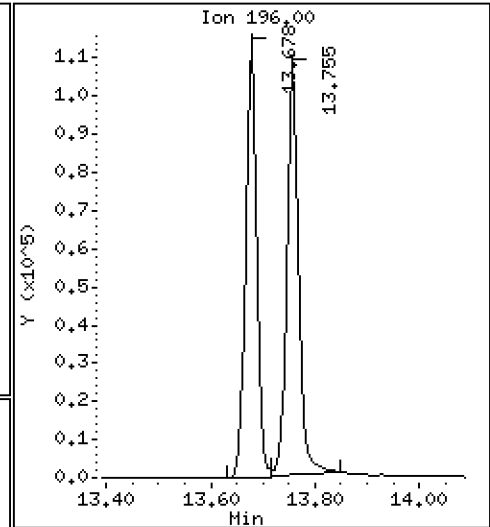
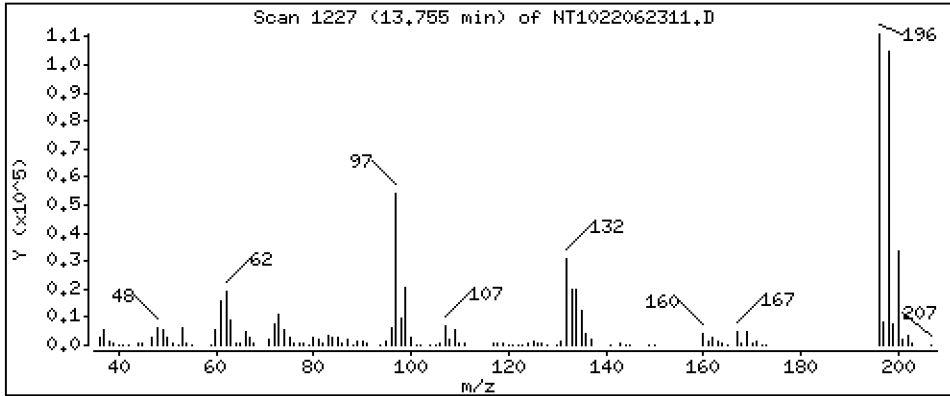
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,427 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

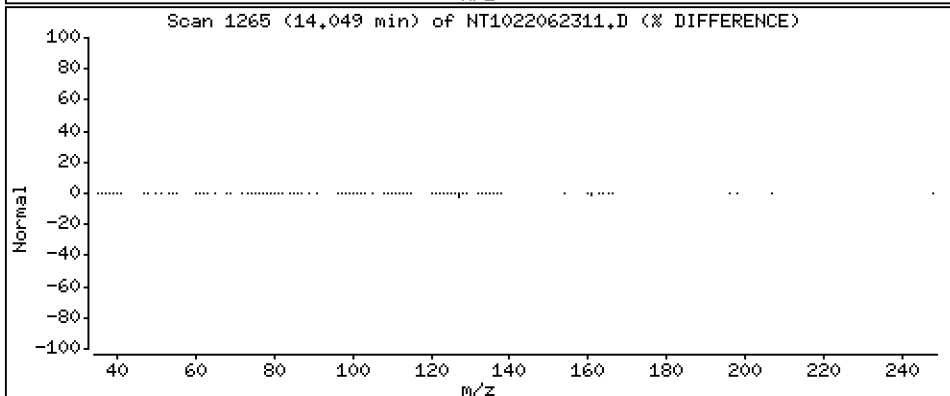
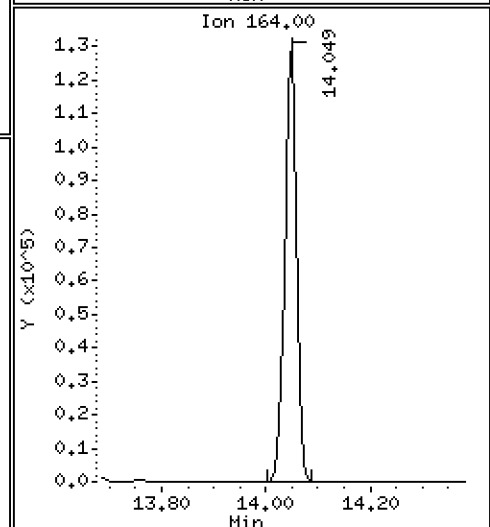
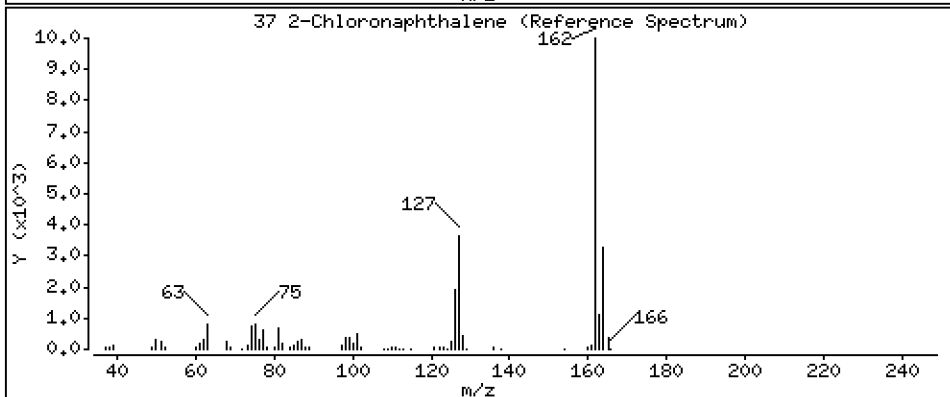
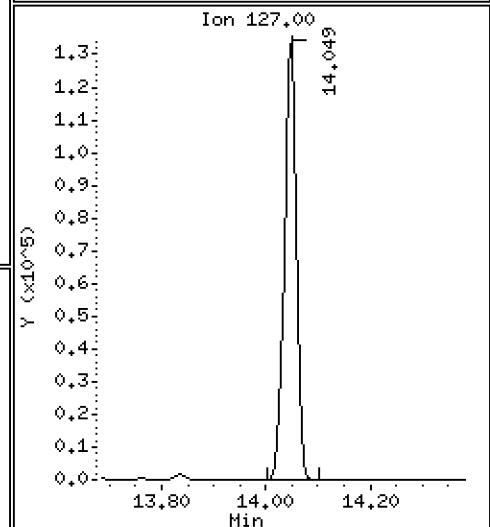
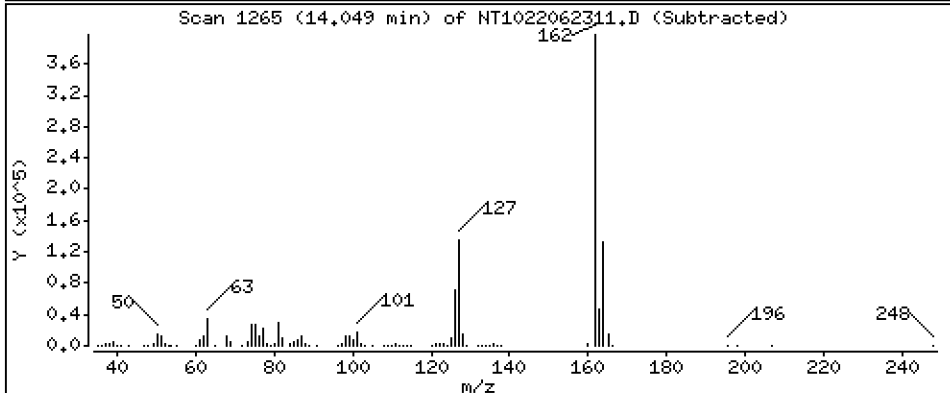
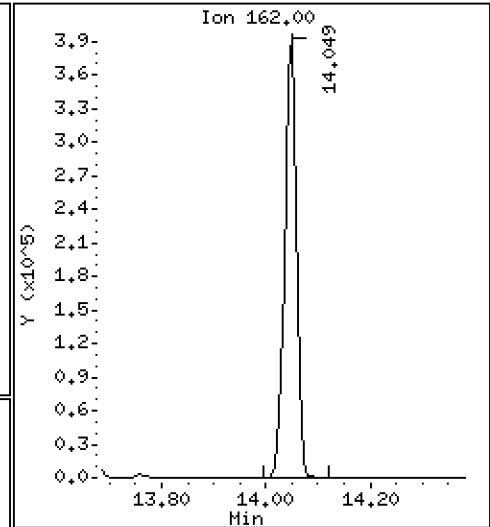
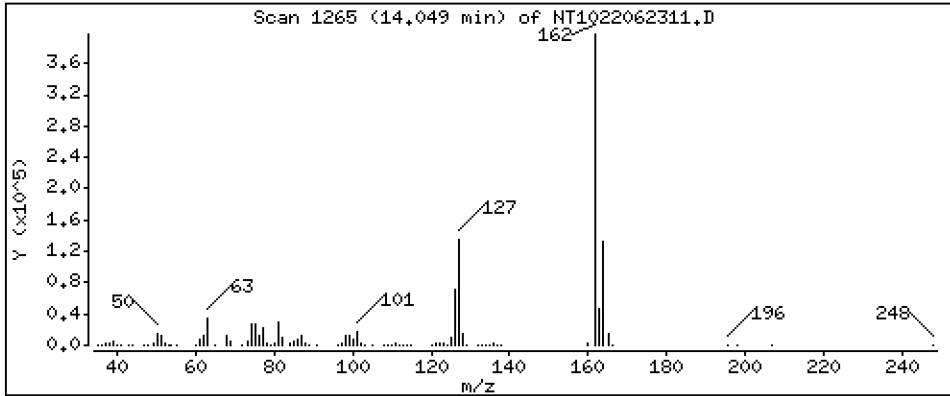
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 5,462 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

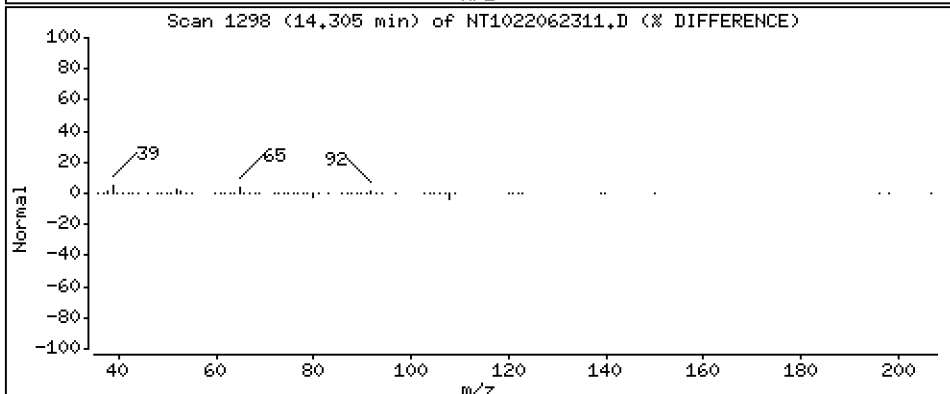
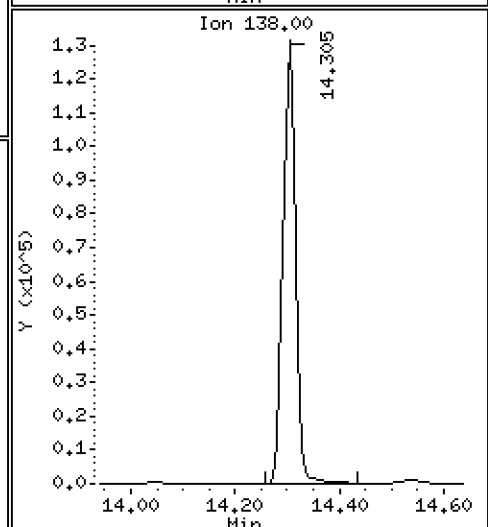
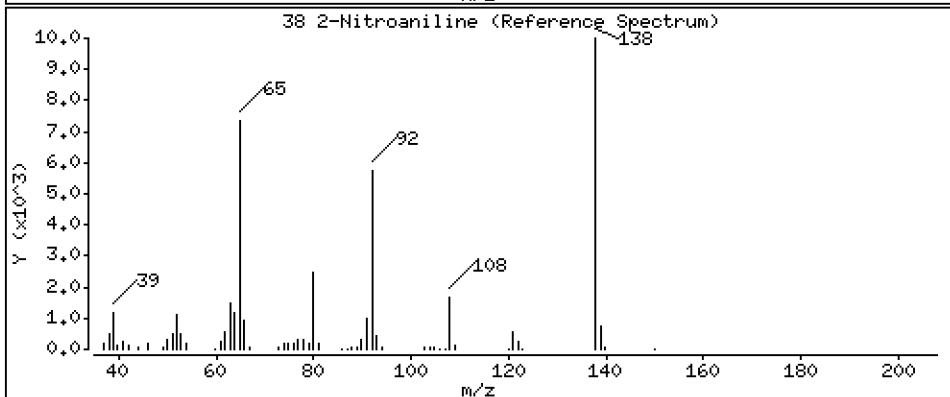
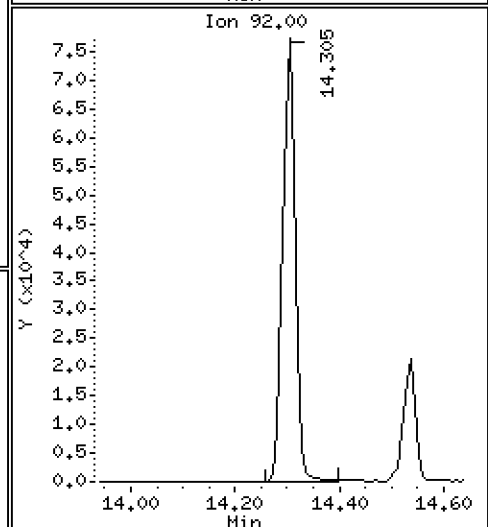
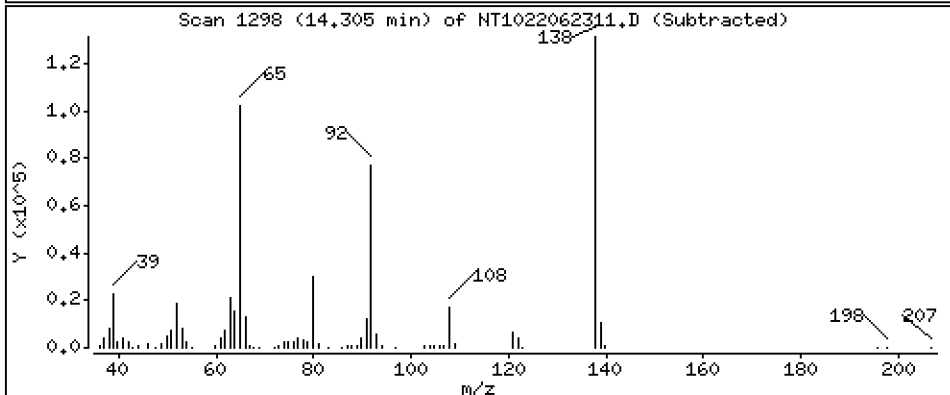
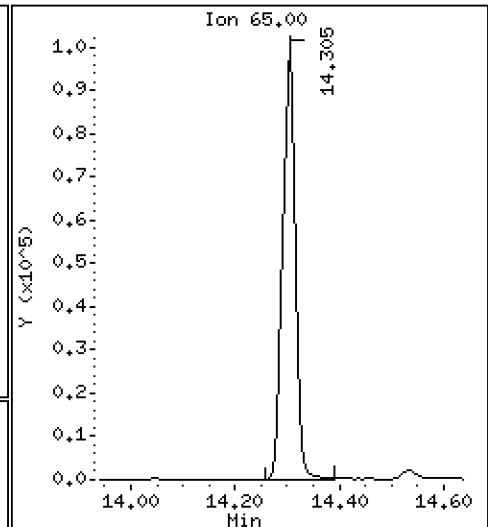
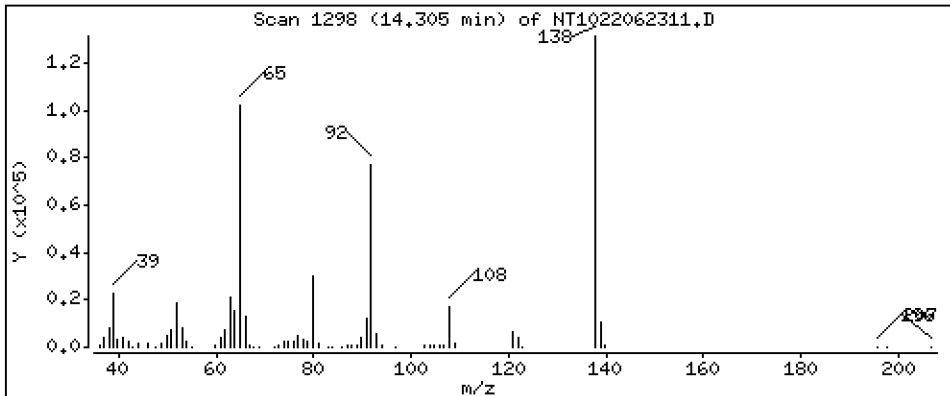
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 5,342 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

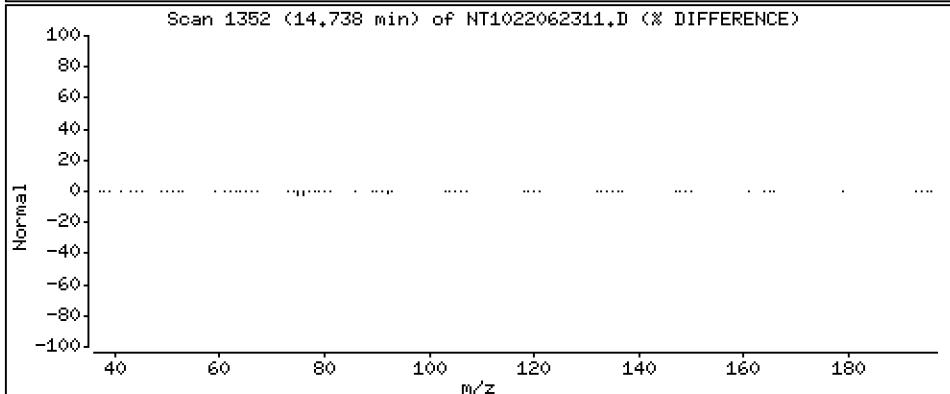
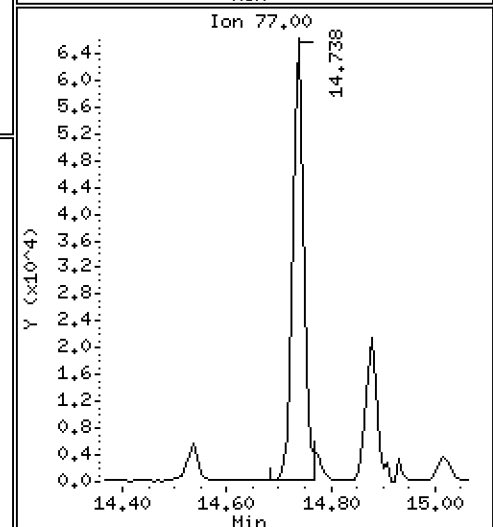
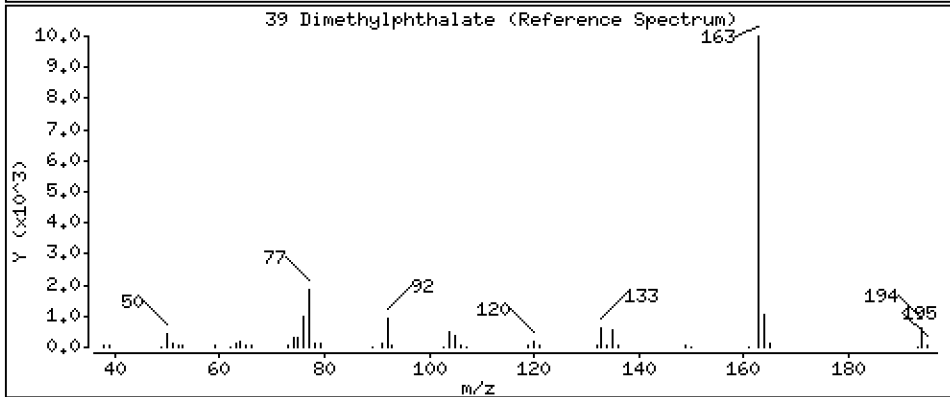
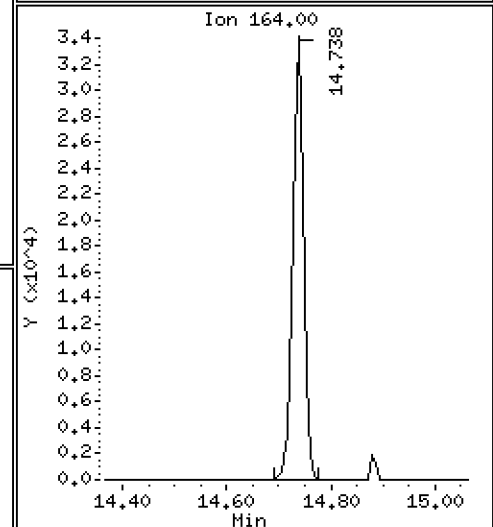
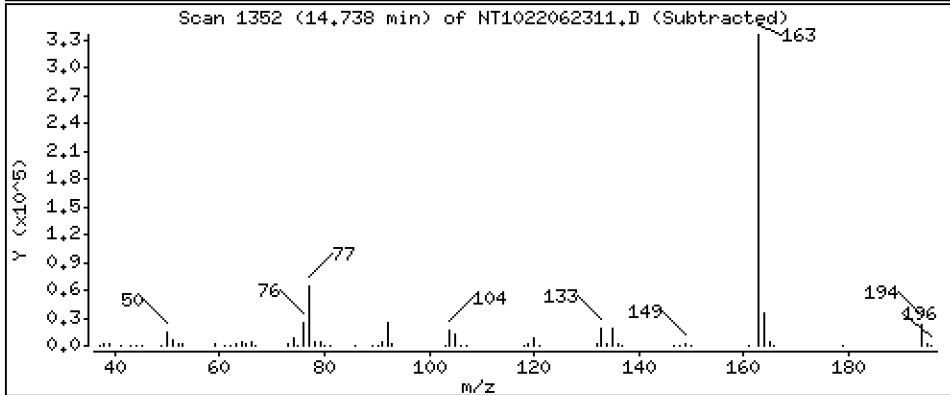
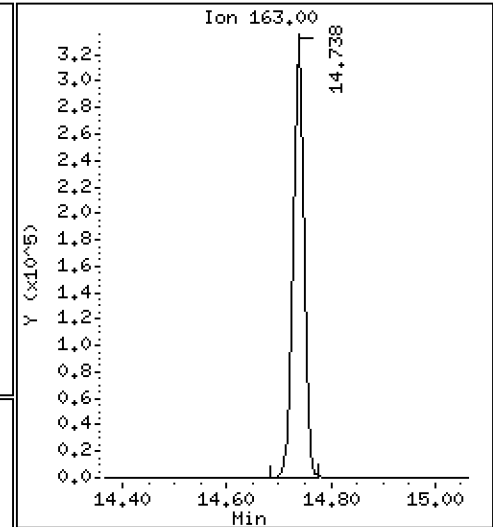
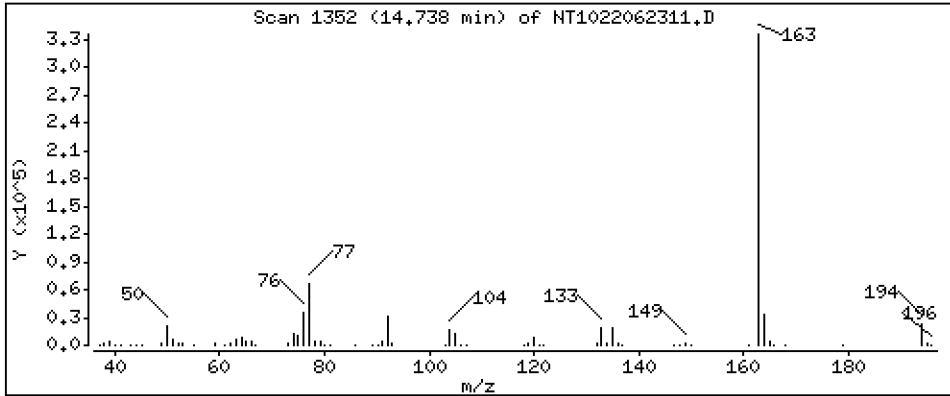
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,973 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

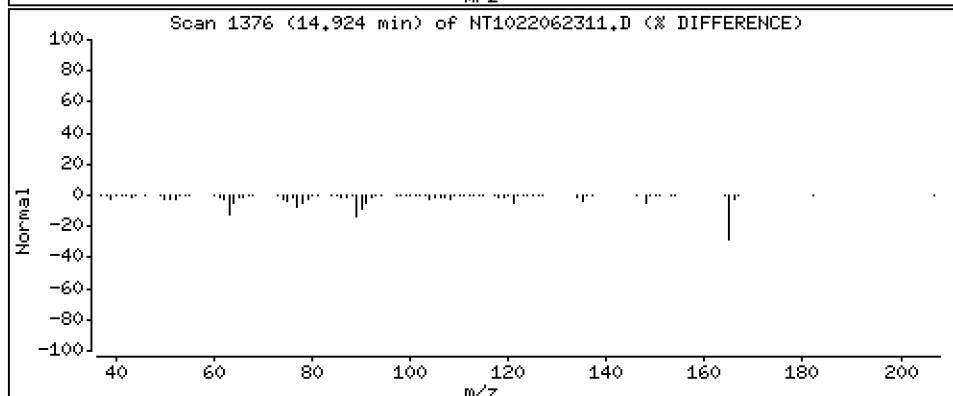
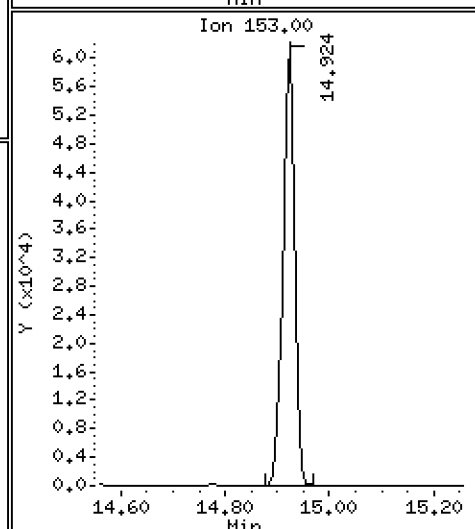
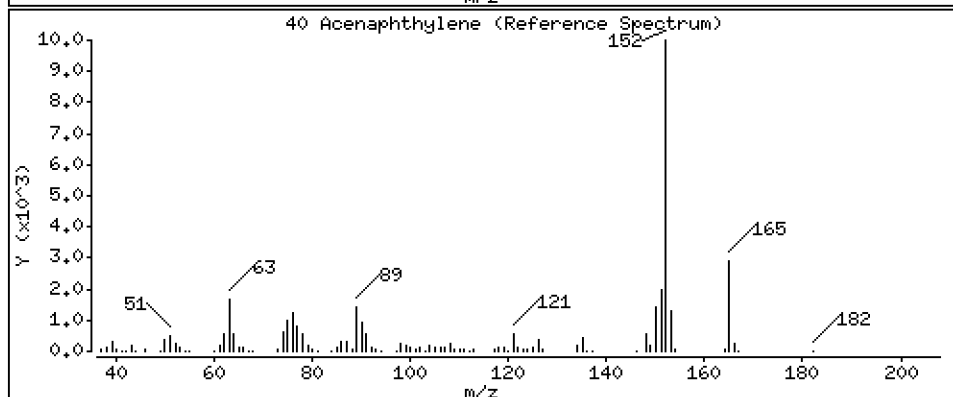
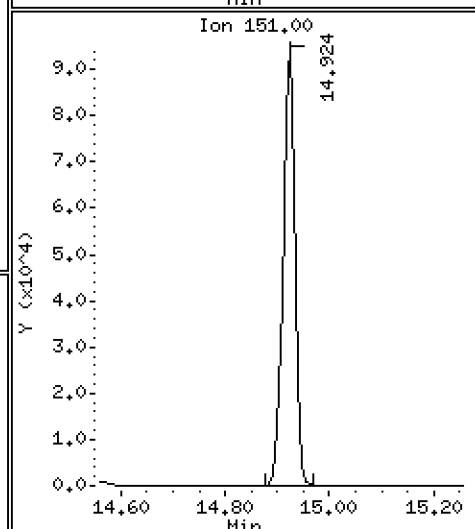
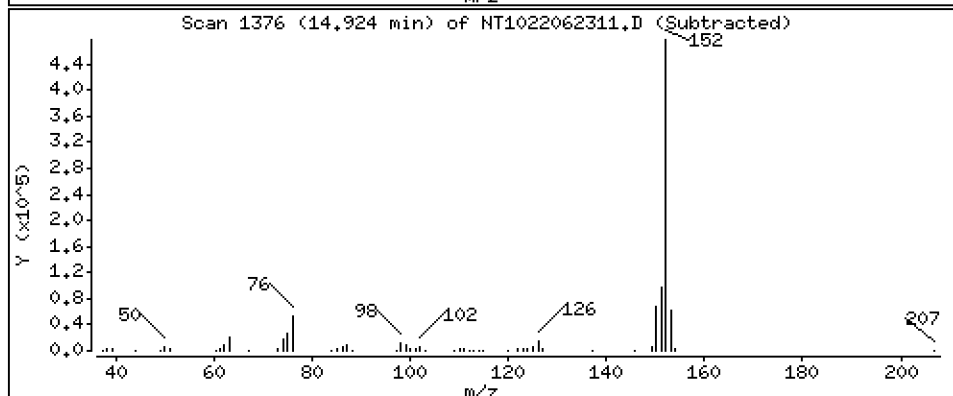
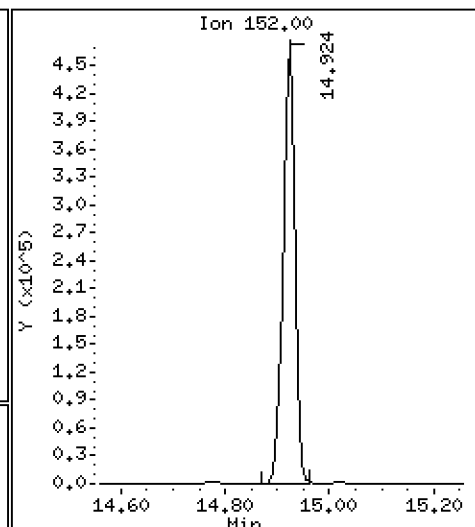
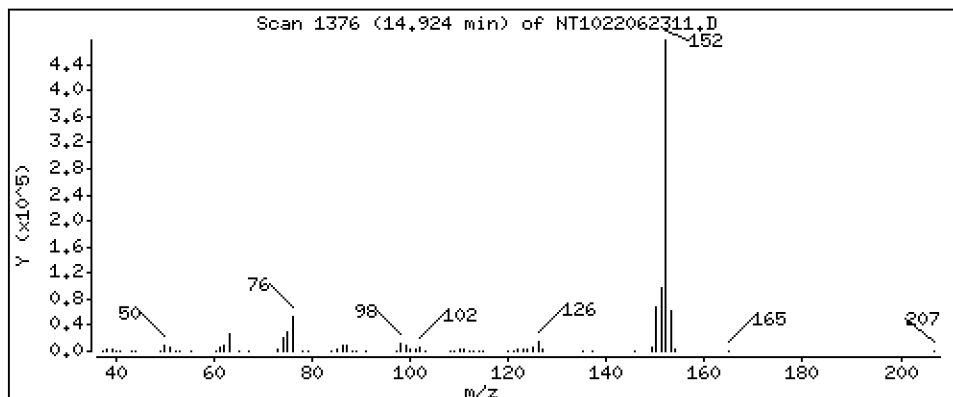
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,476 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

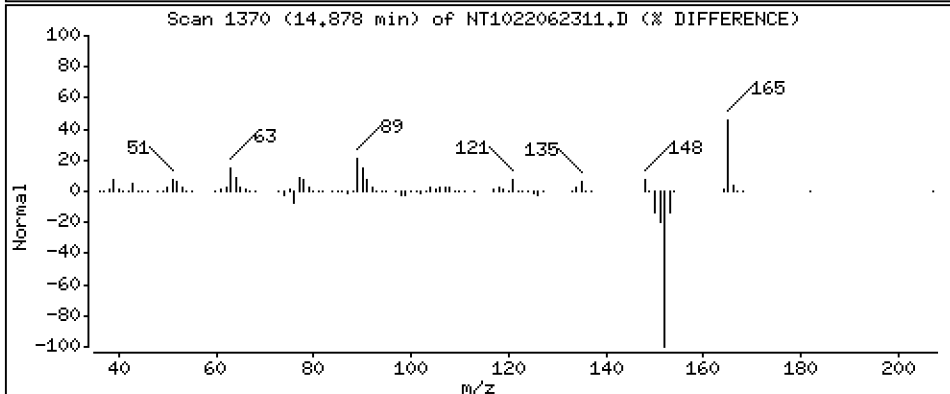
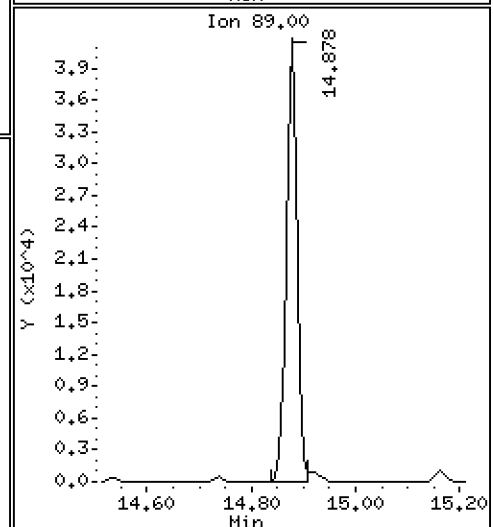
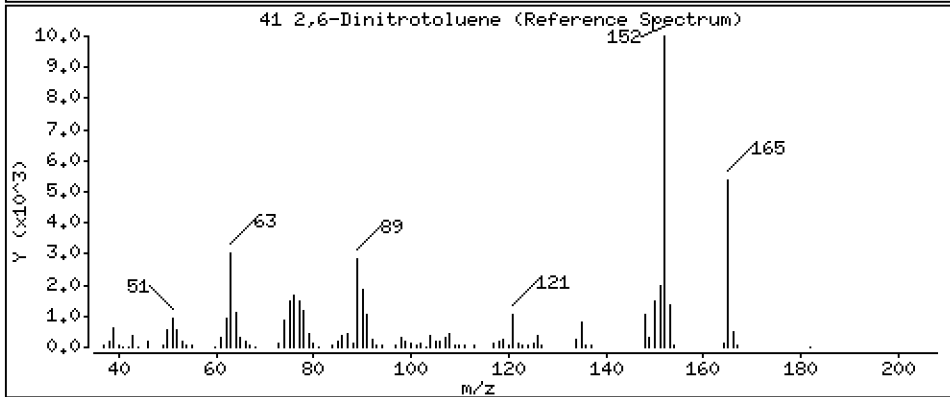
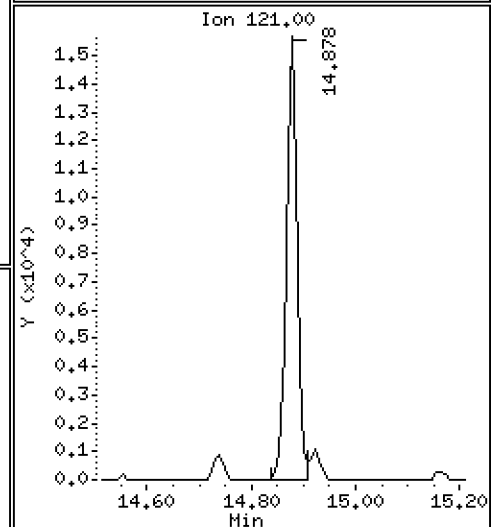
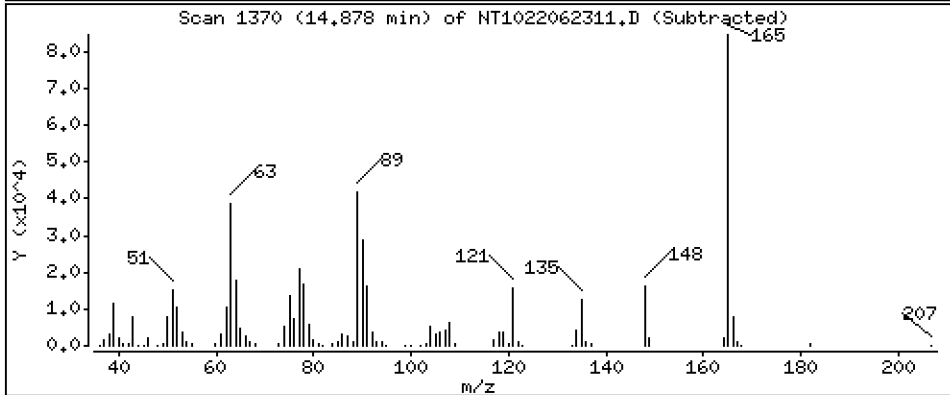
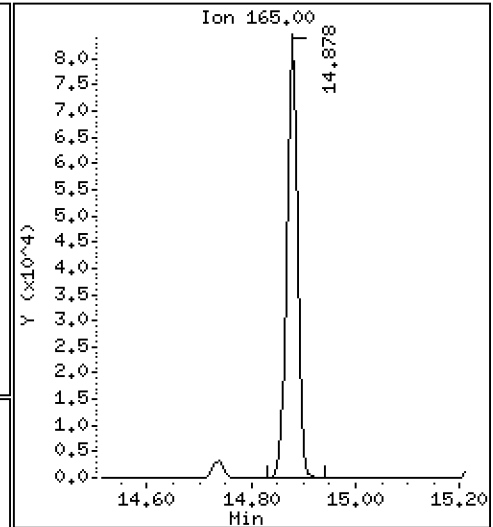
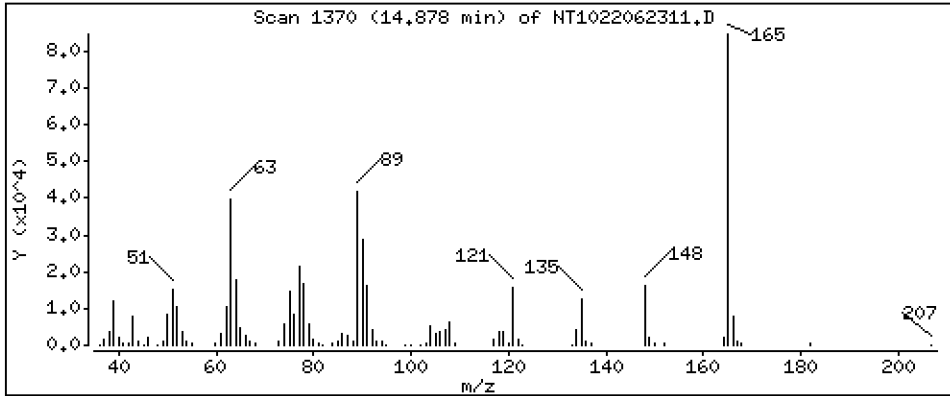
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,256 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

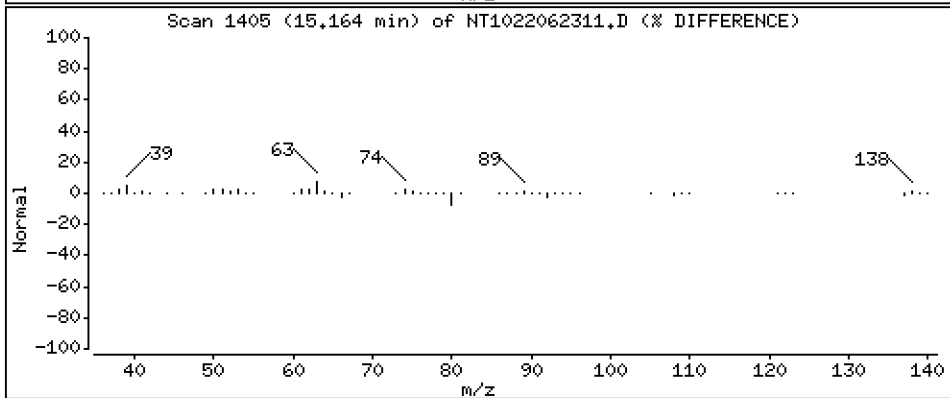
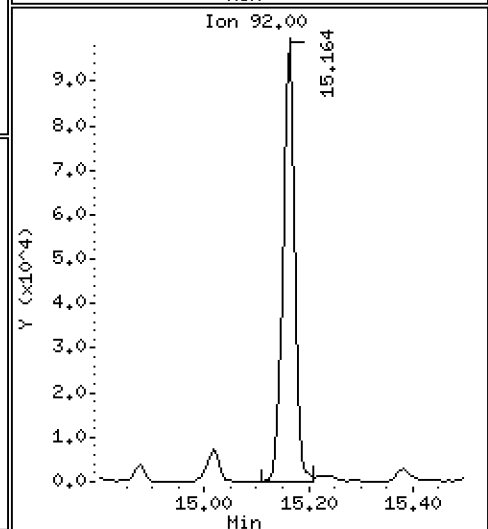
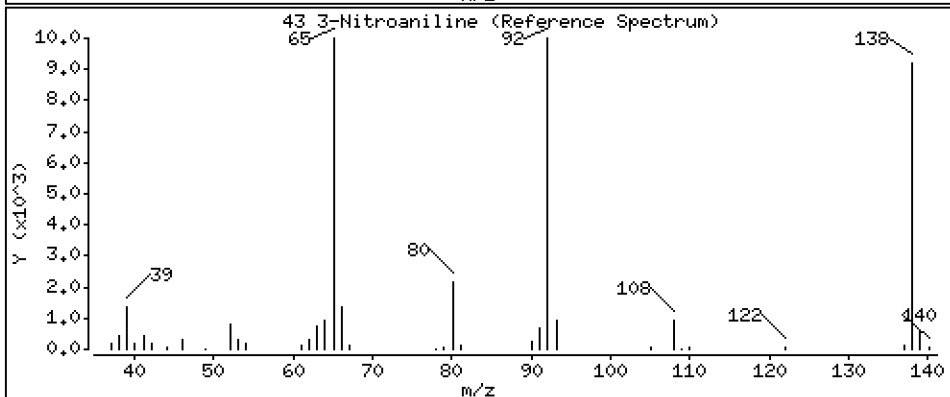
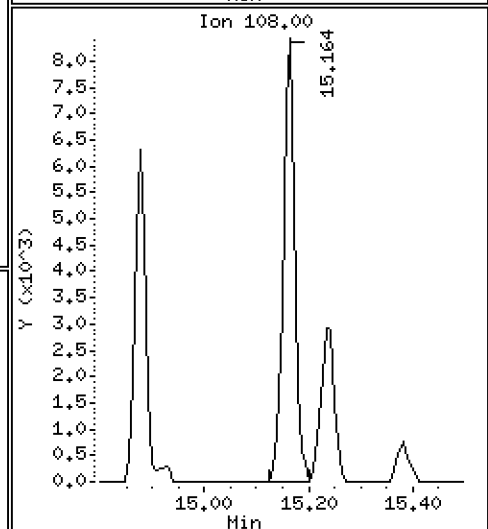
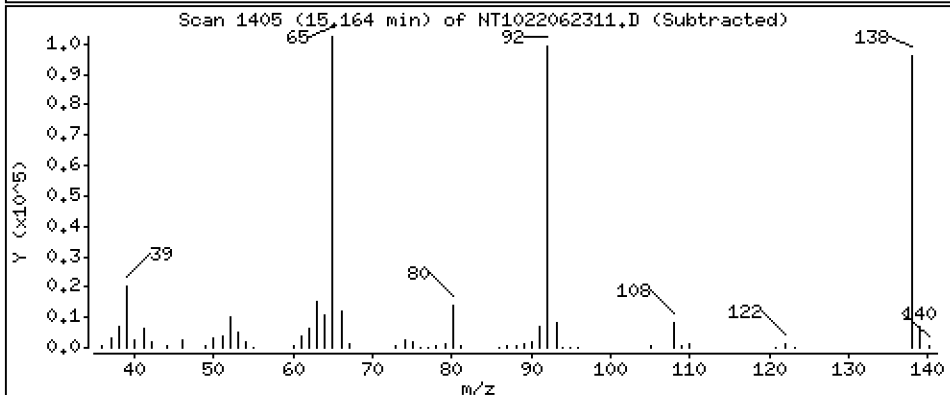
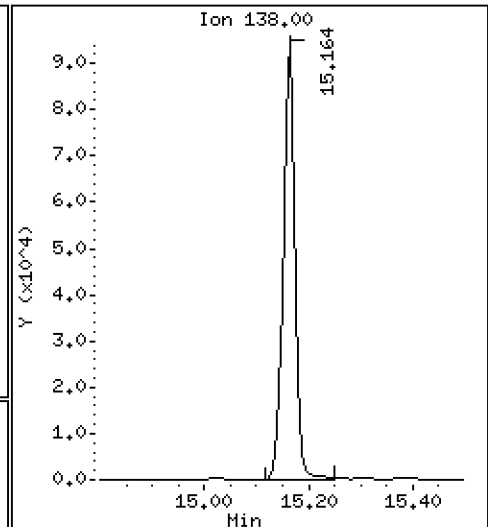
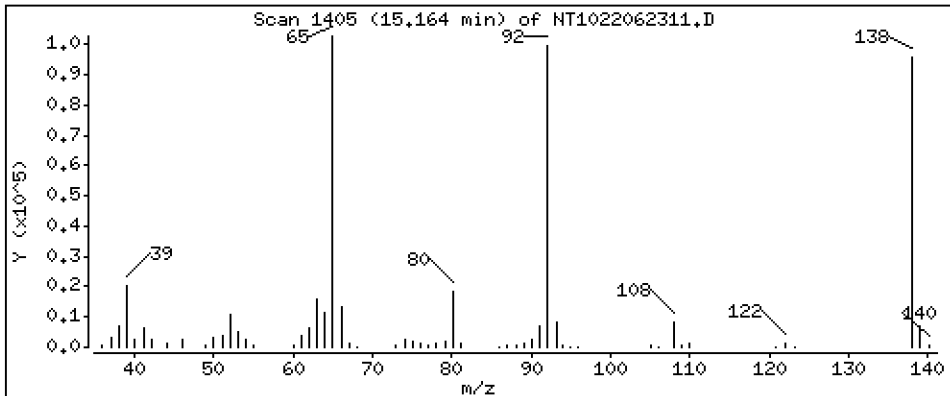
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 5,379 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

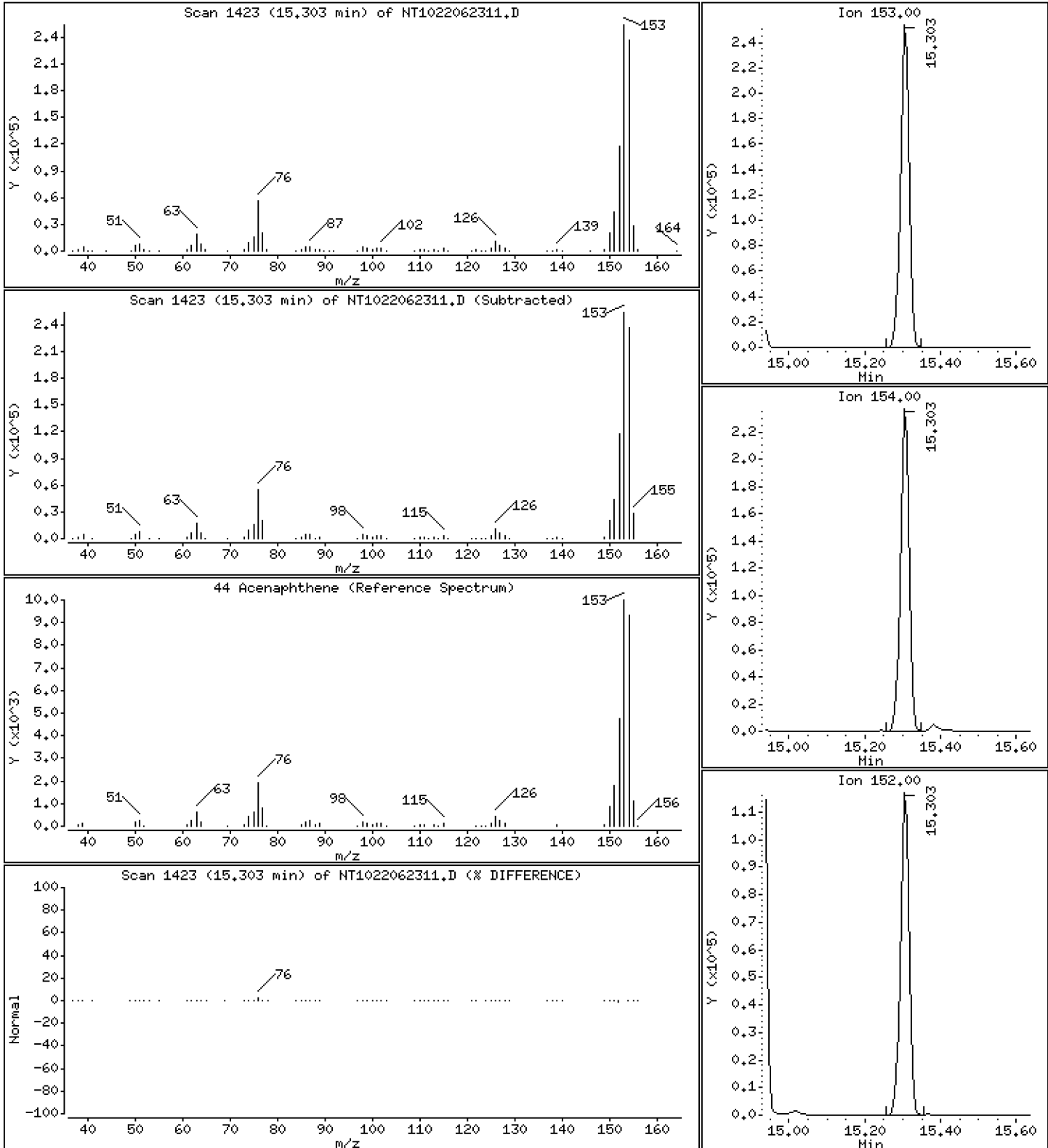
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,939 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

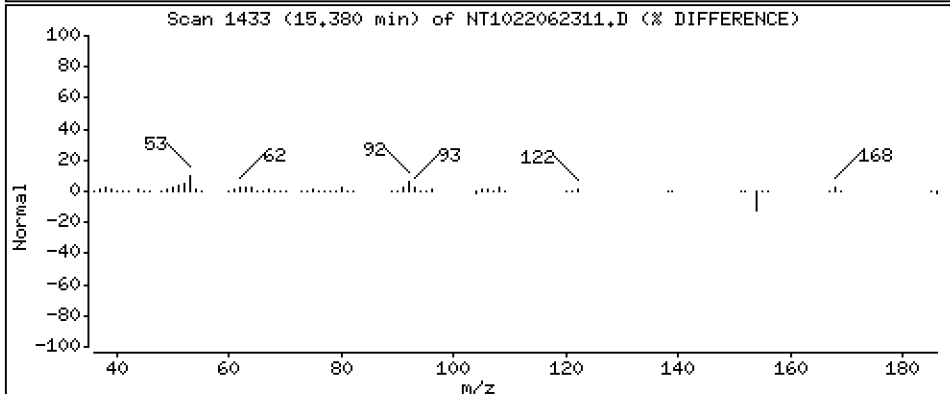
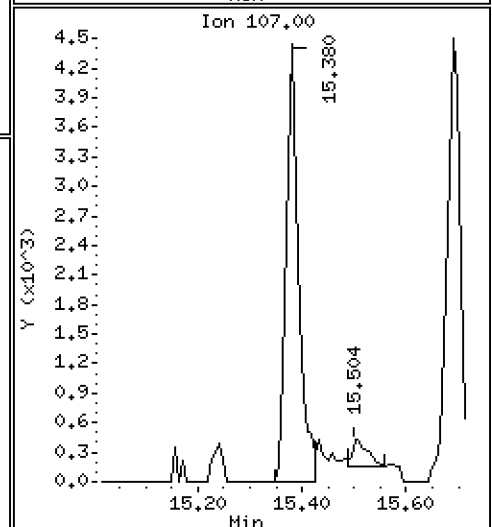
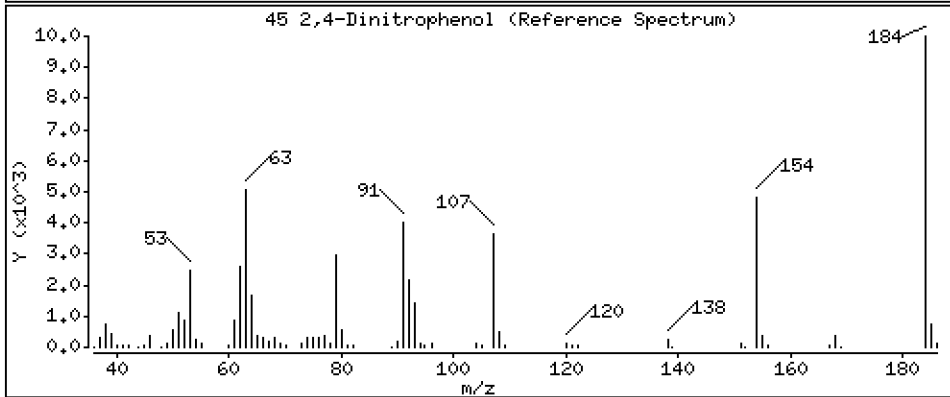
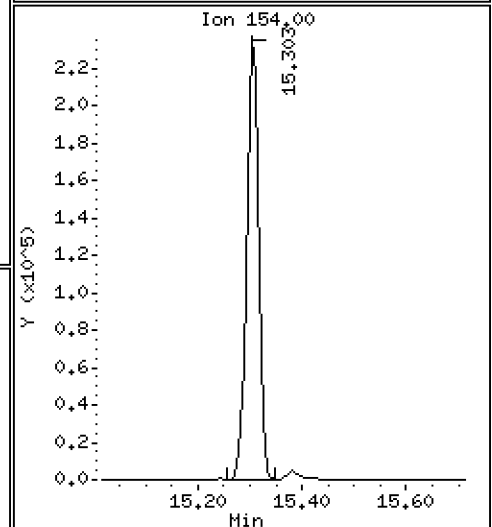
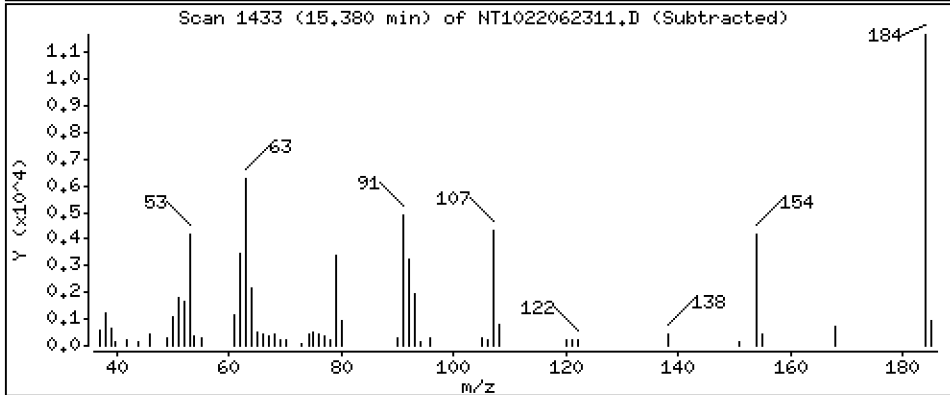
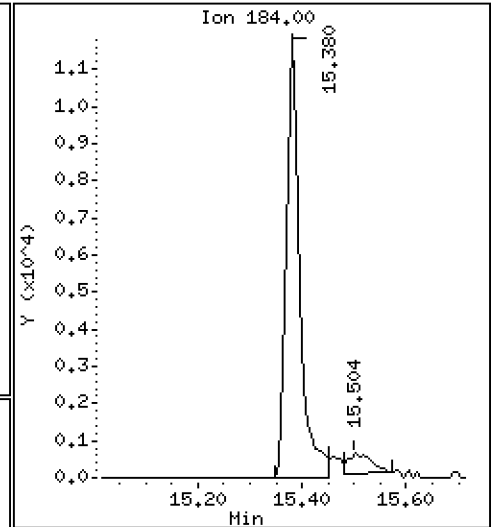
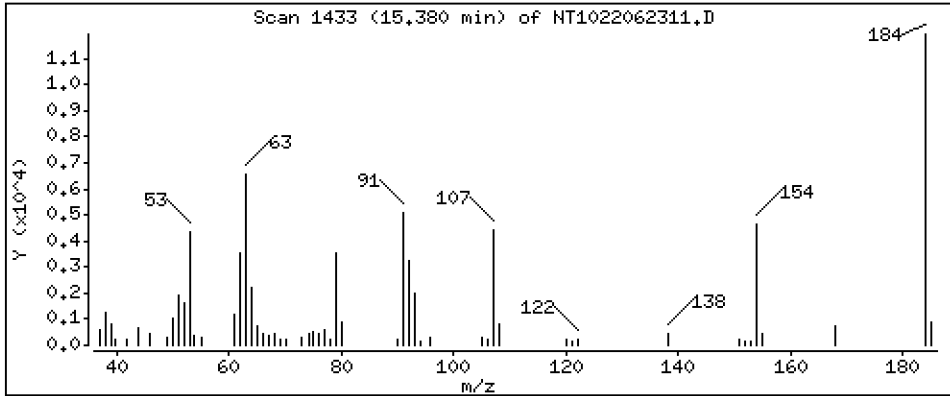
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 2,023 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

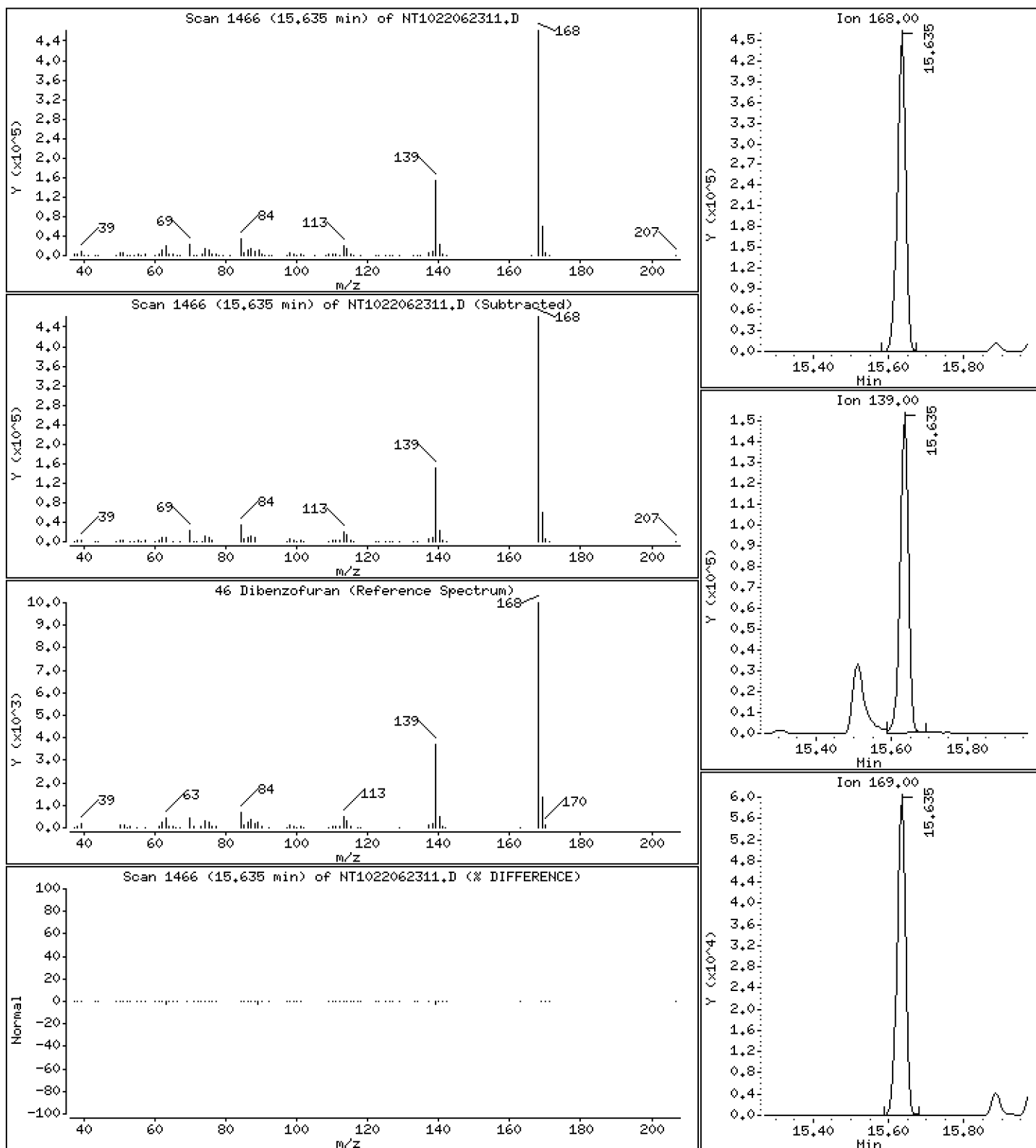
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 5,340 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

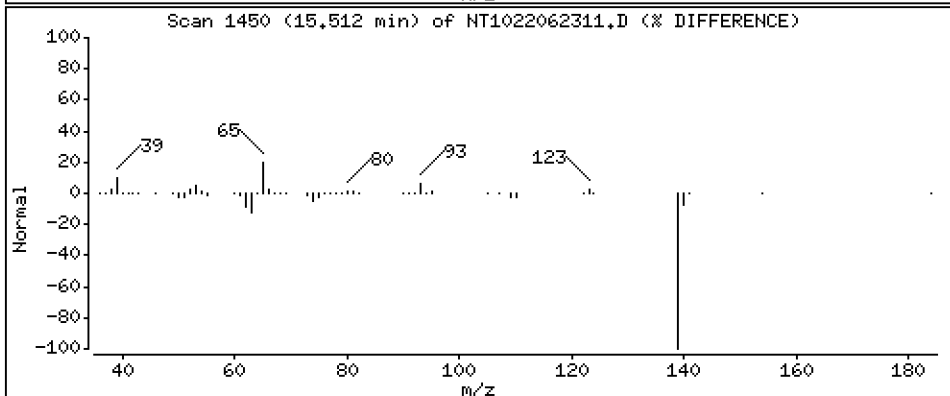
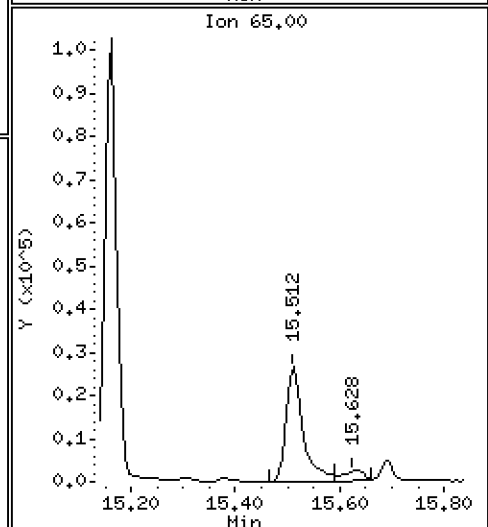
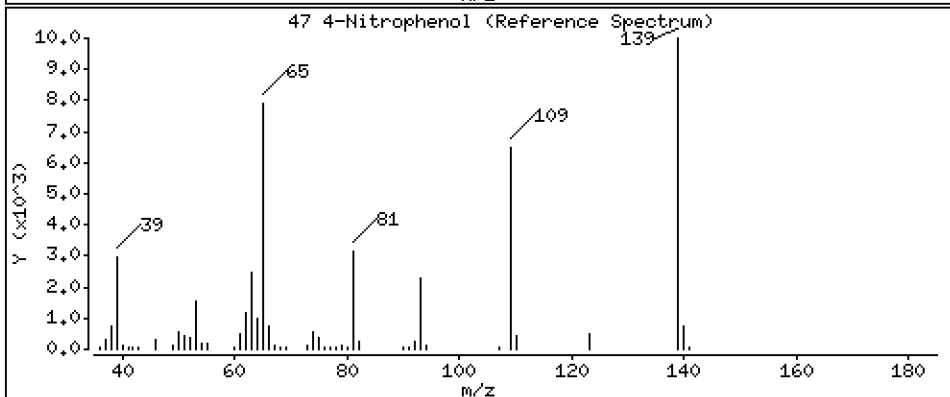
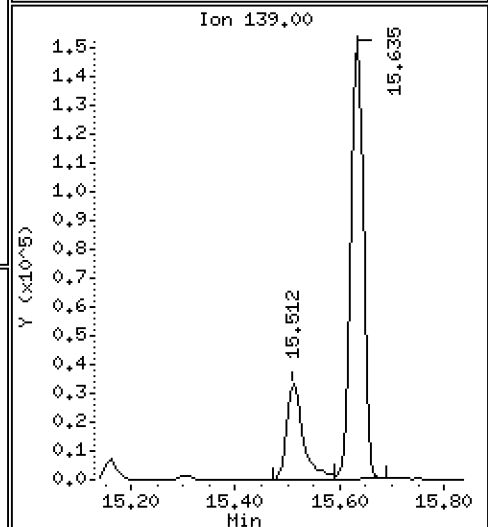
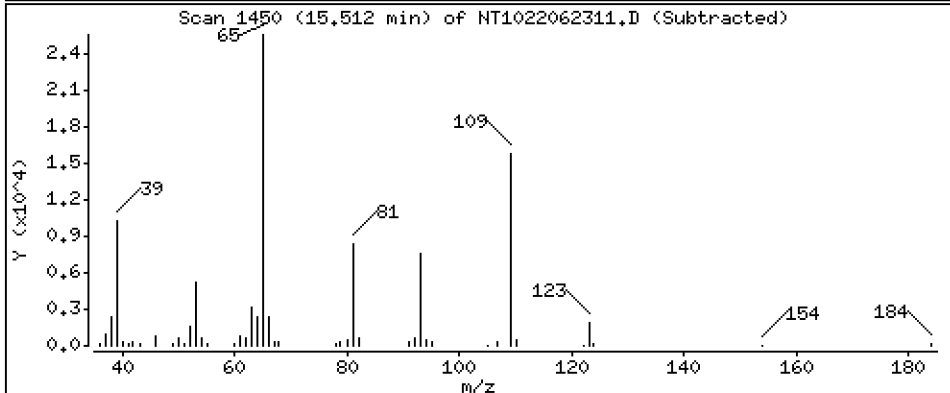
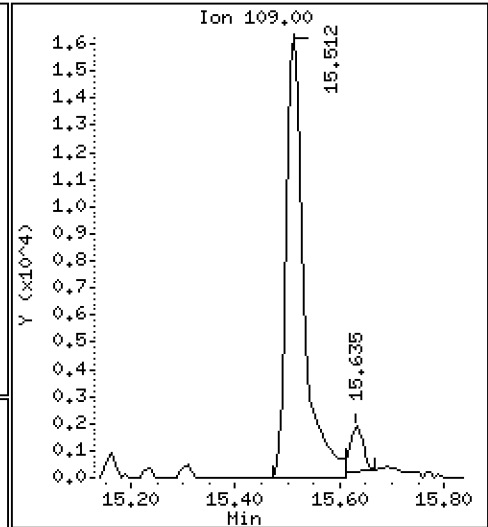
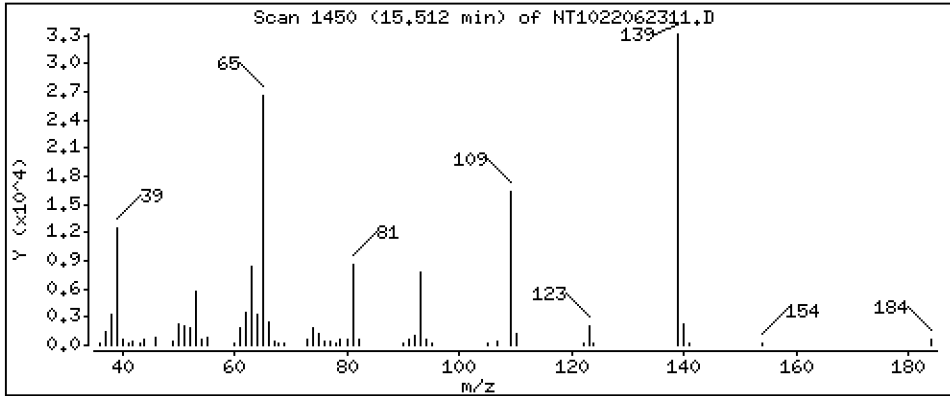
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 4,435 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

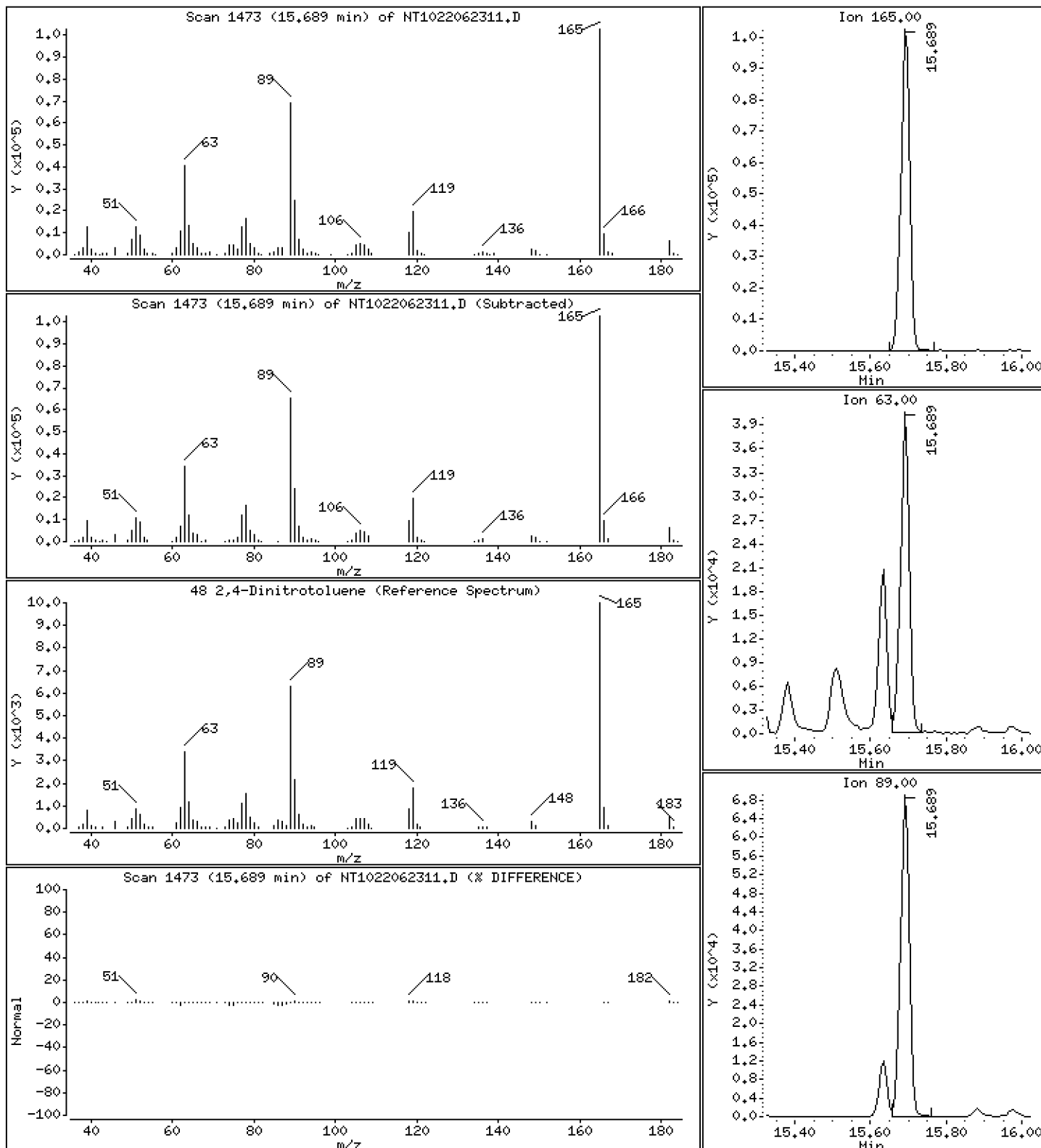
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 5,308 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

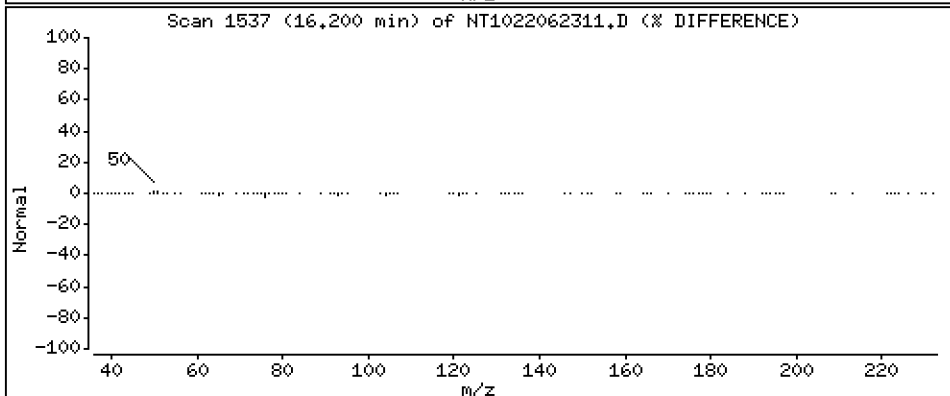
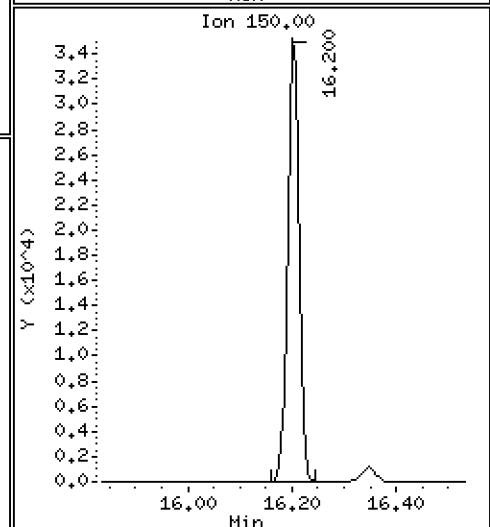
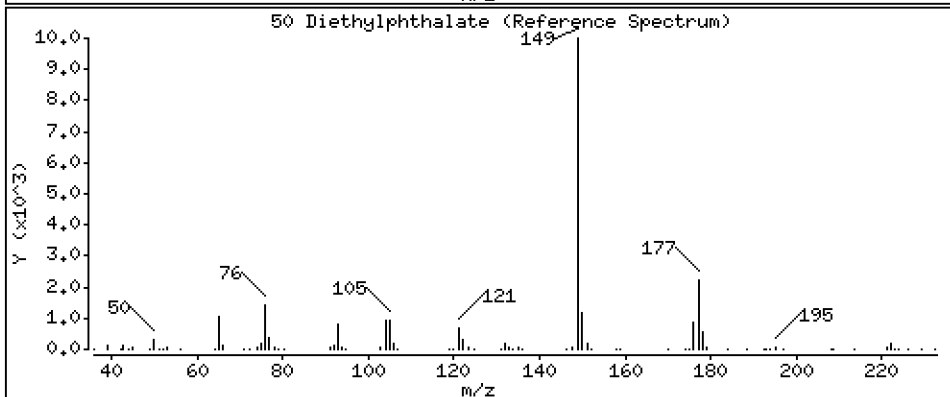
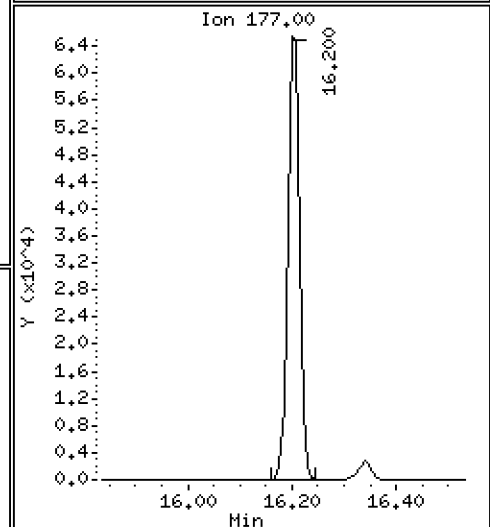
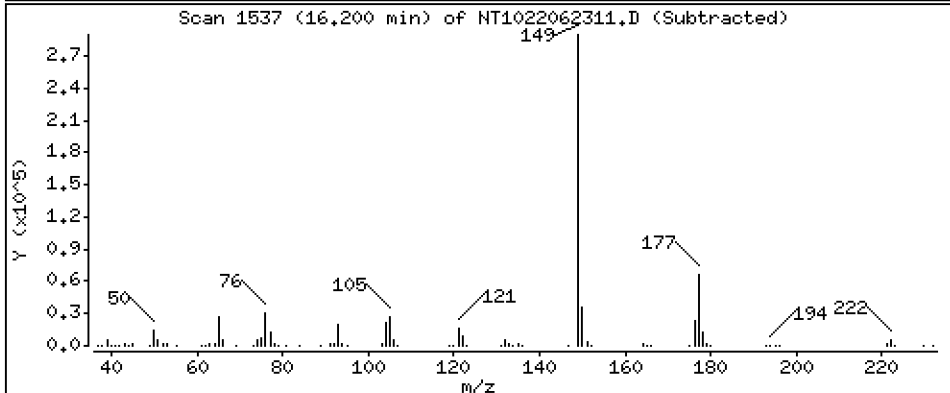
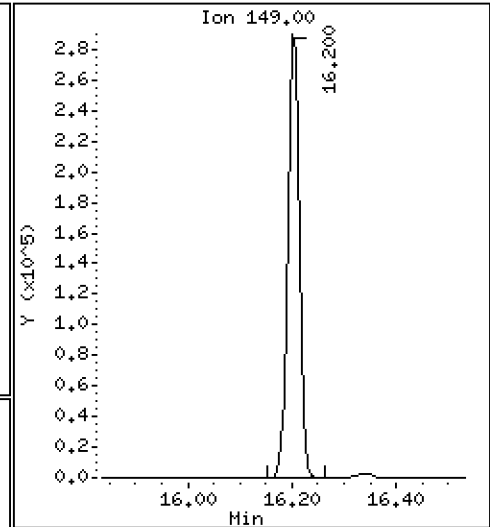
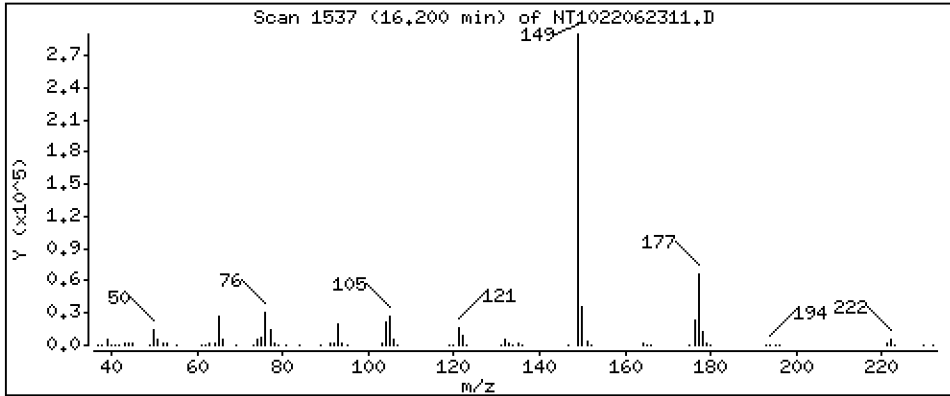
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,372 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

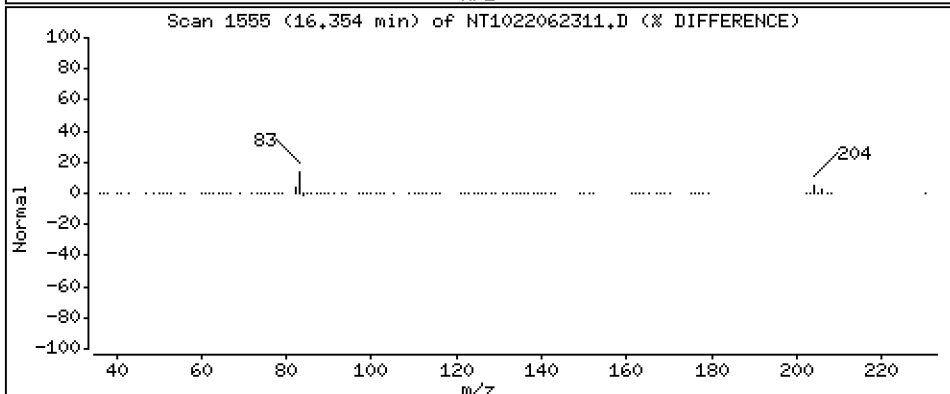
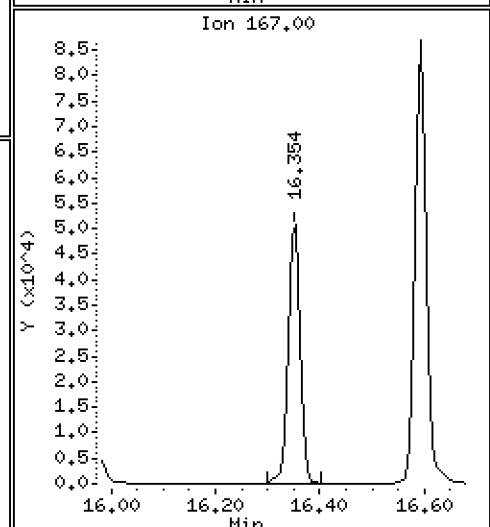
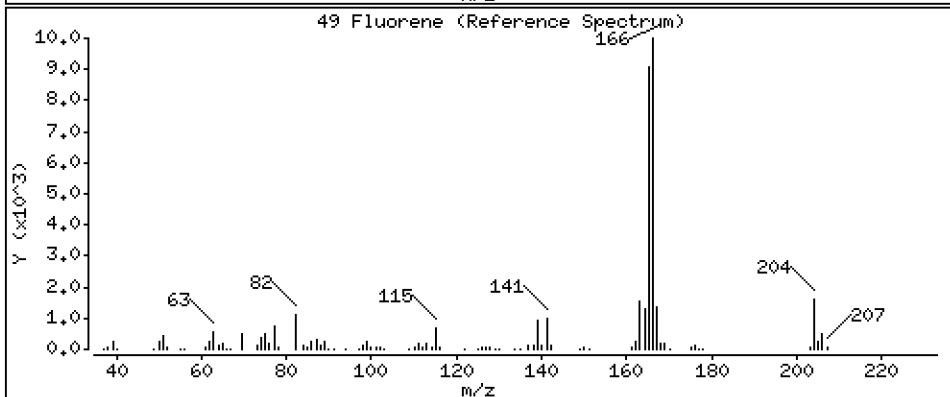
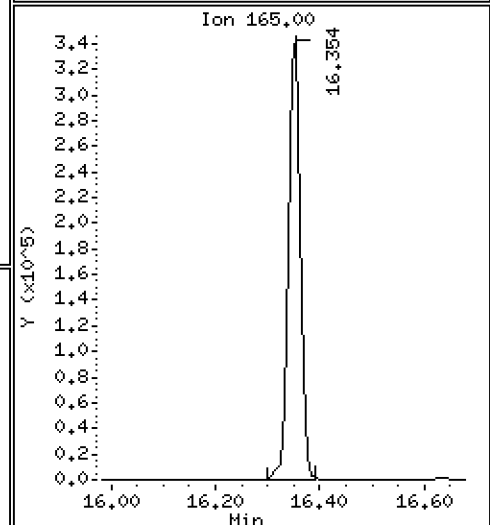
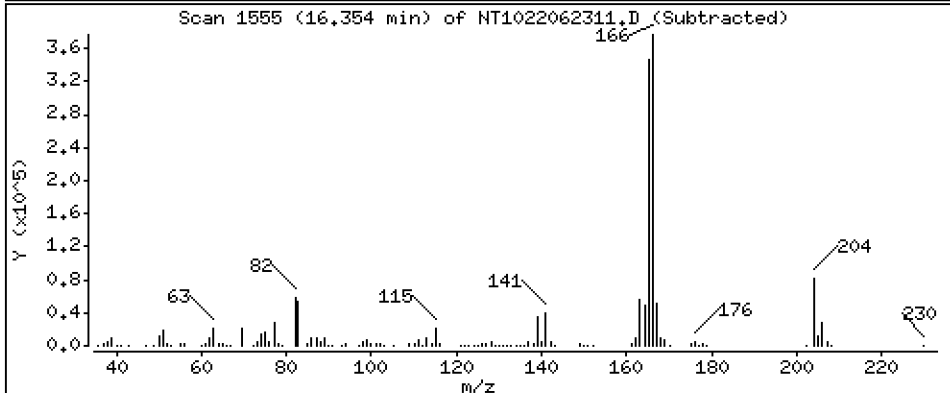
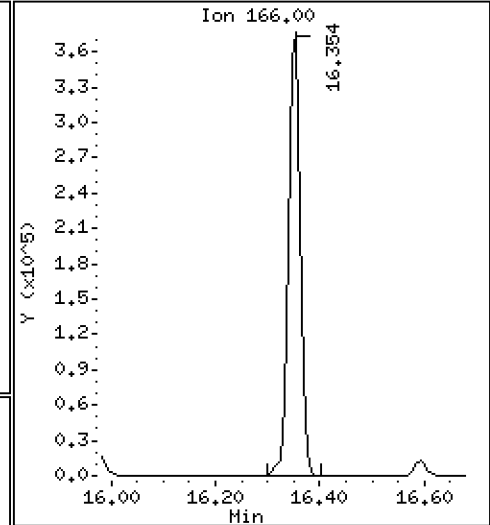
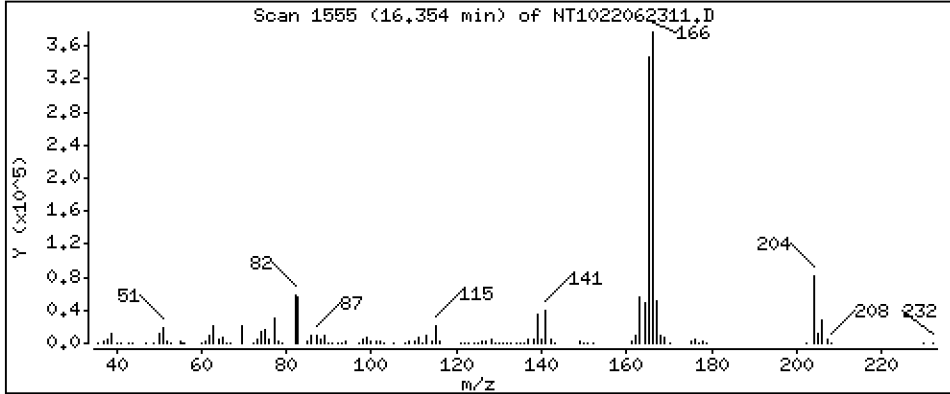
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,594 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

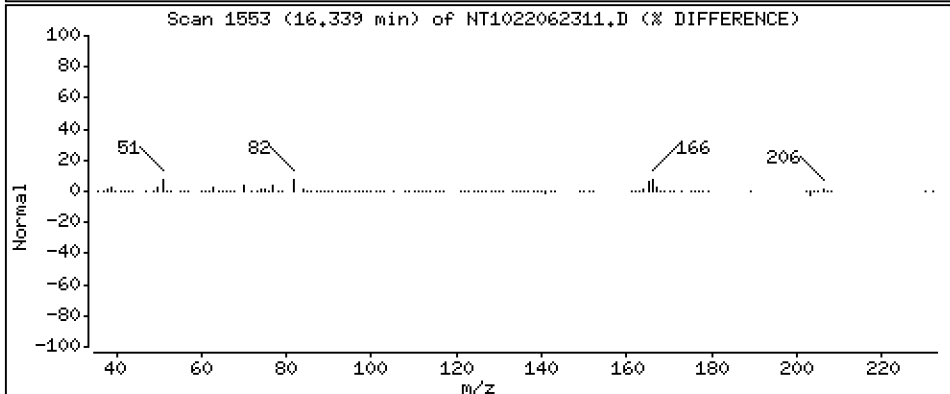
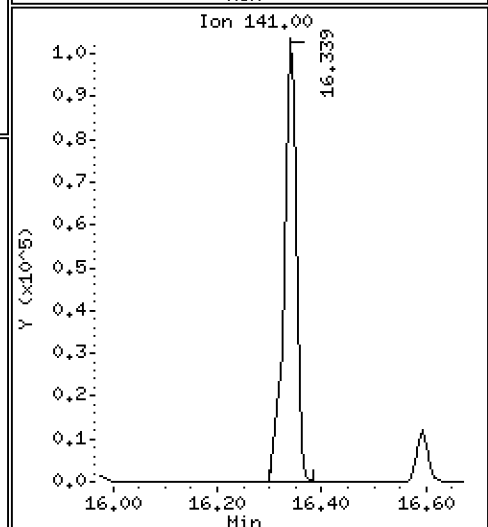
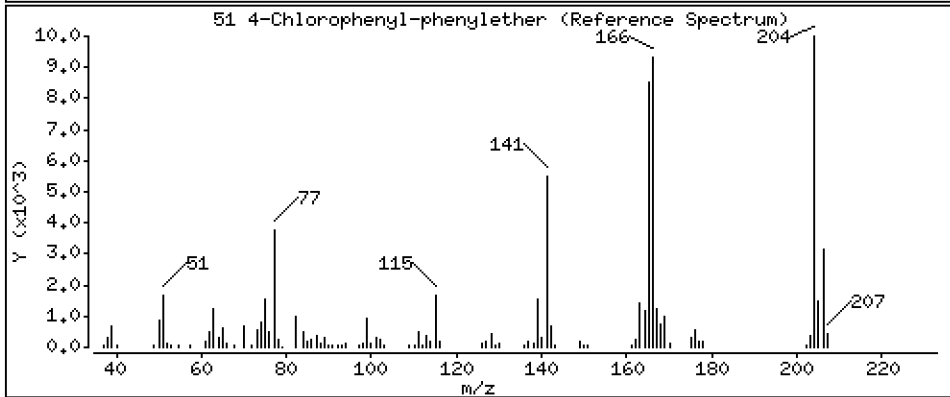
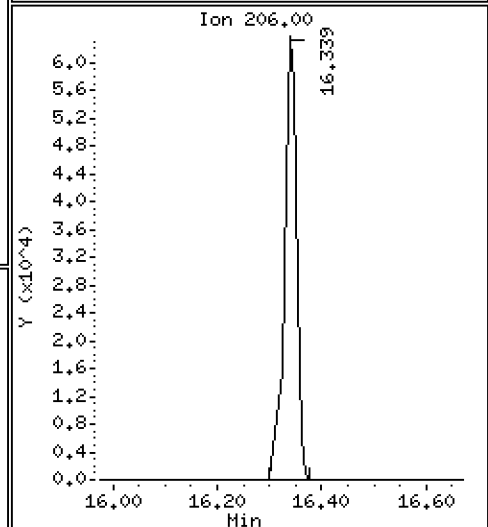
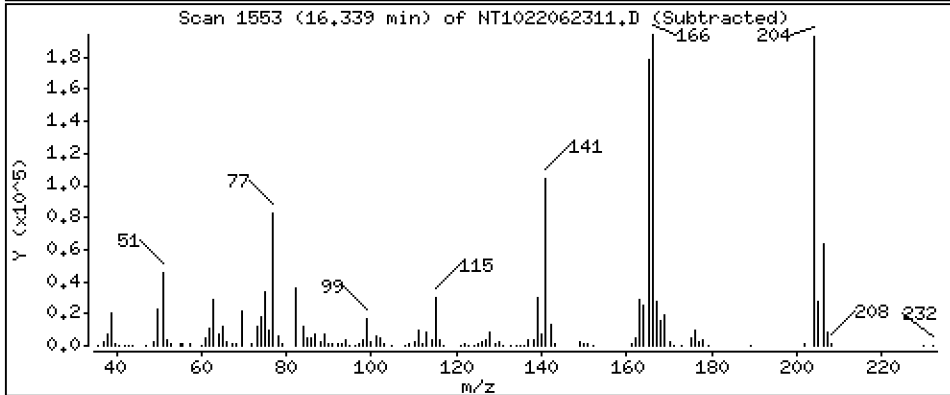
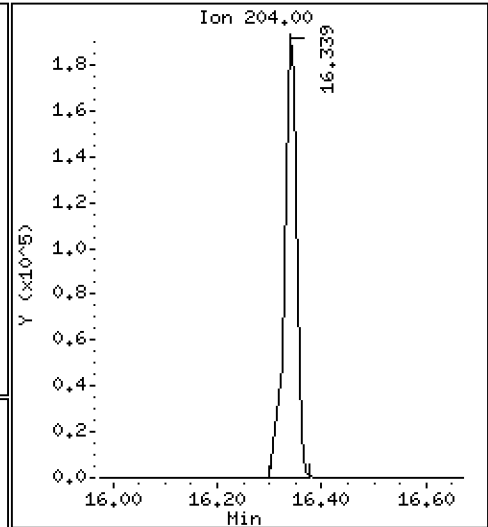
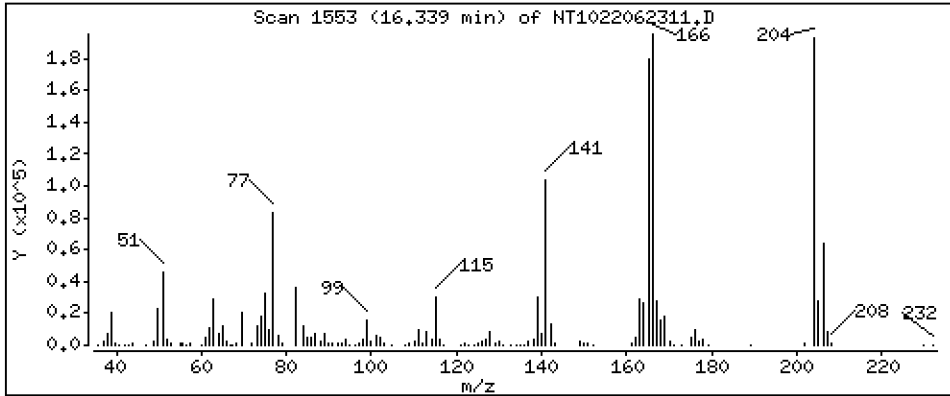
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 5,407 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

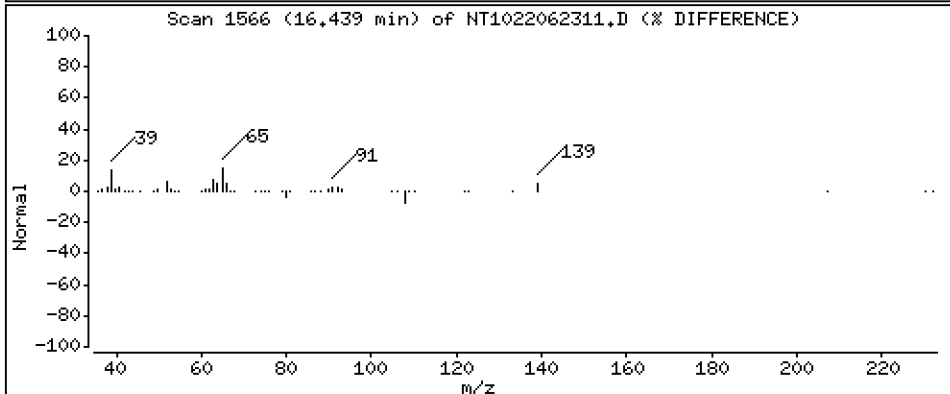
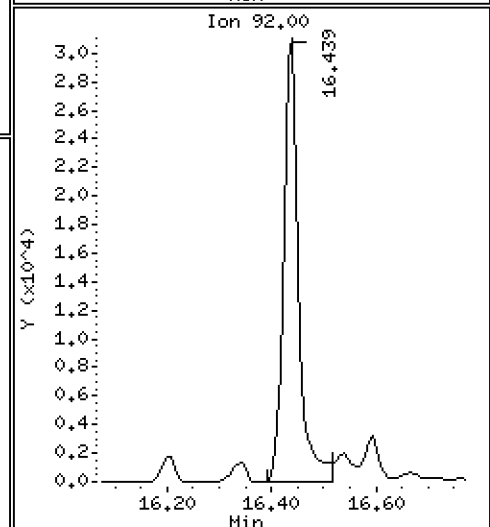
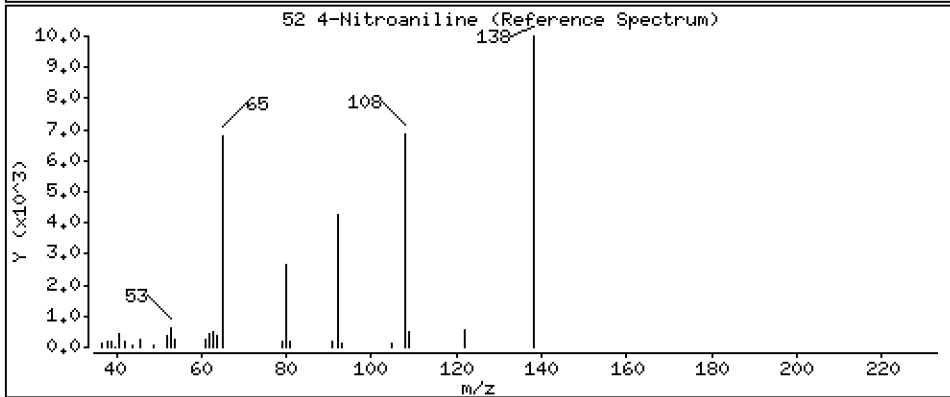
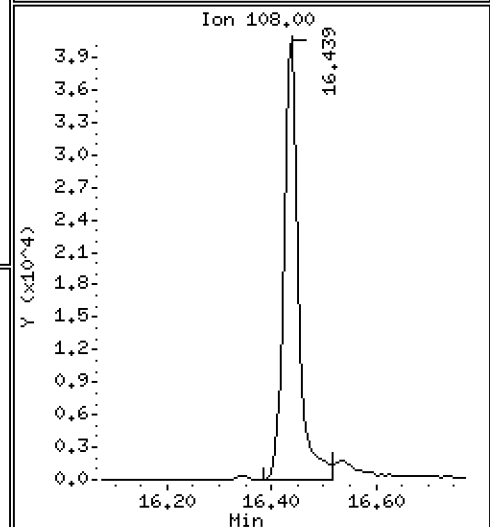
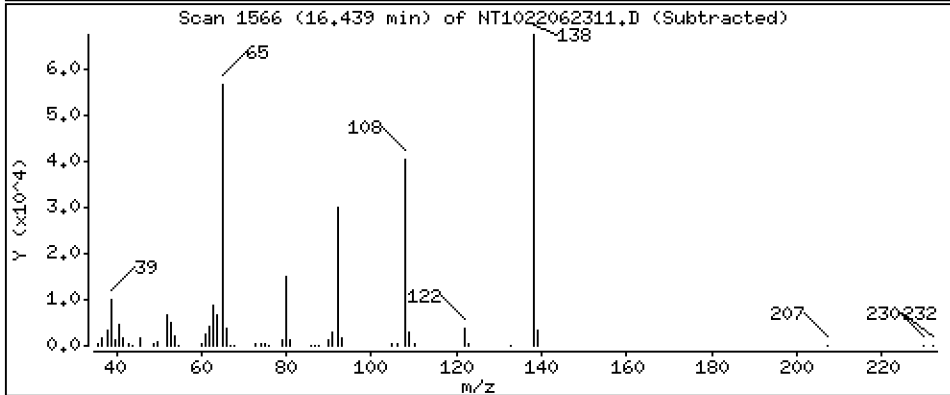
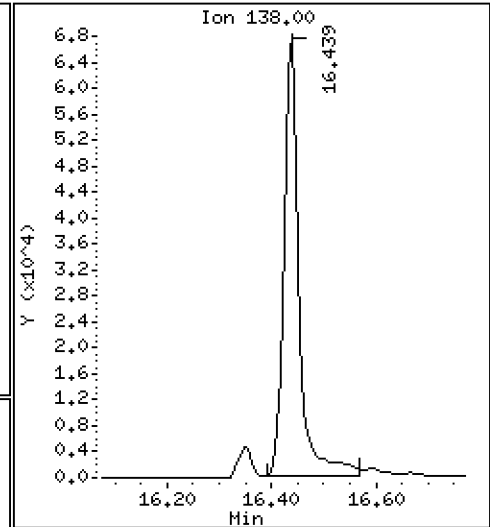
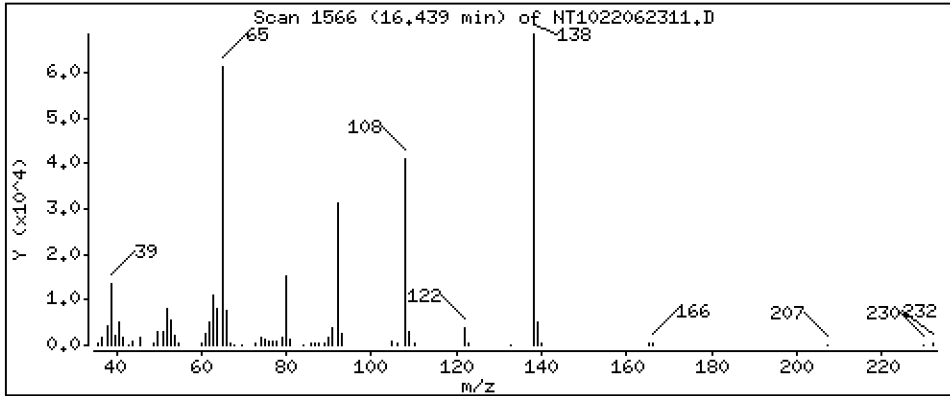
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 5,094 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

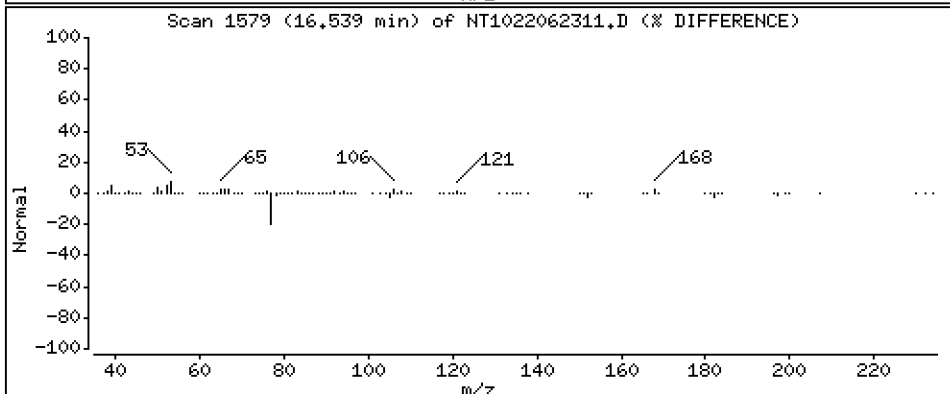
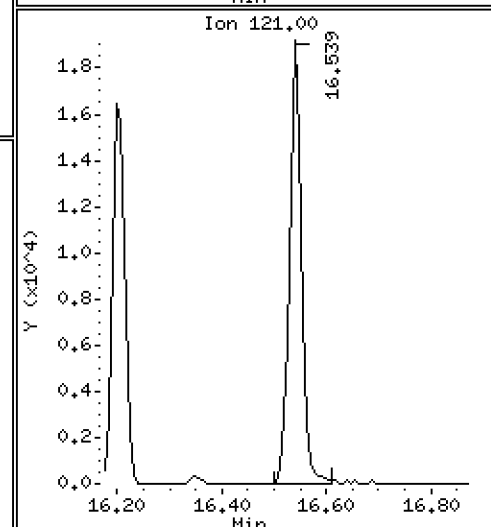
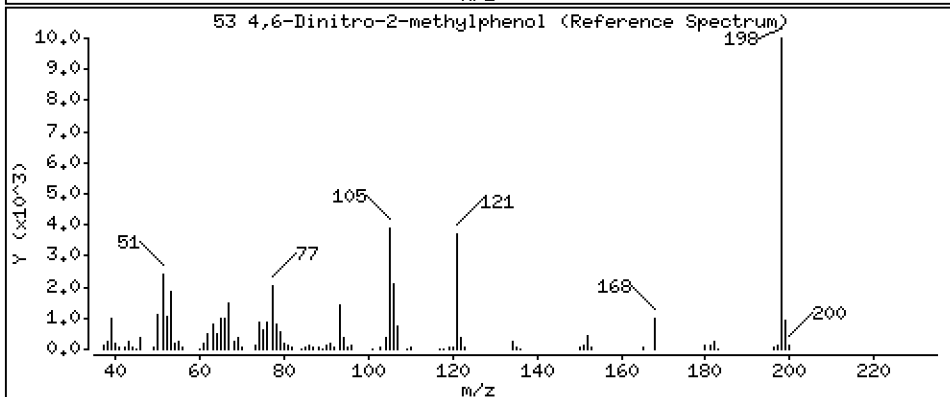
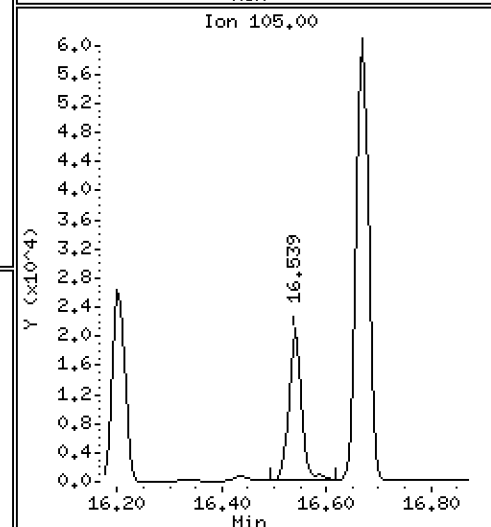
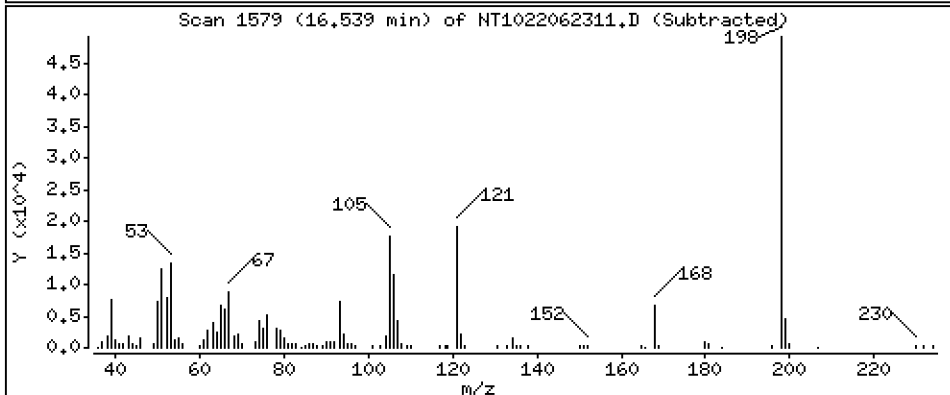
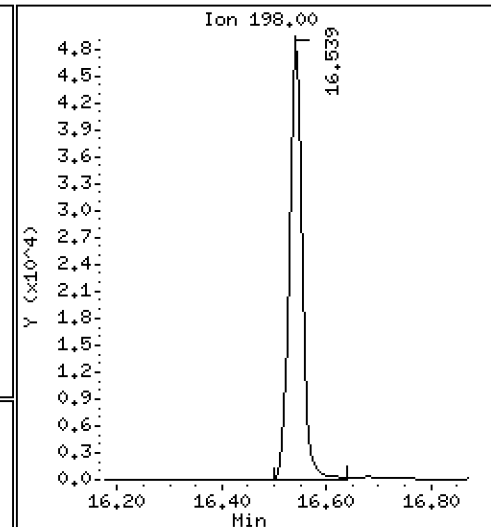
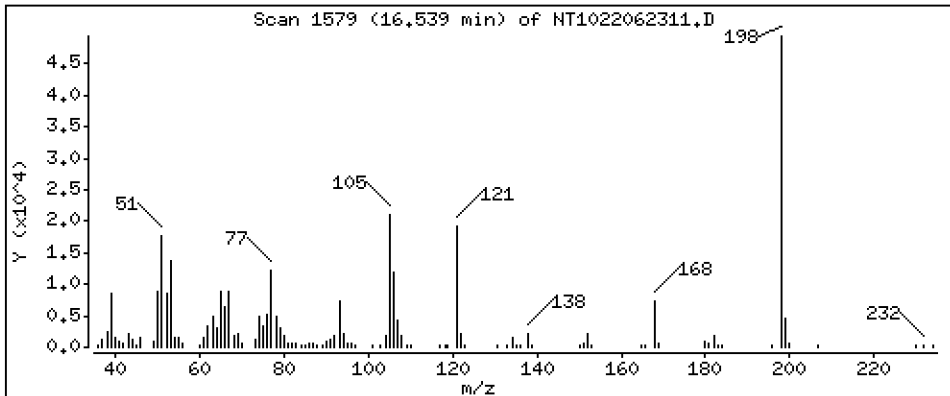
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 4,314 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

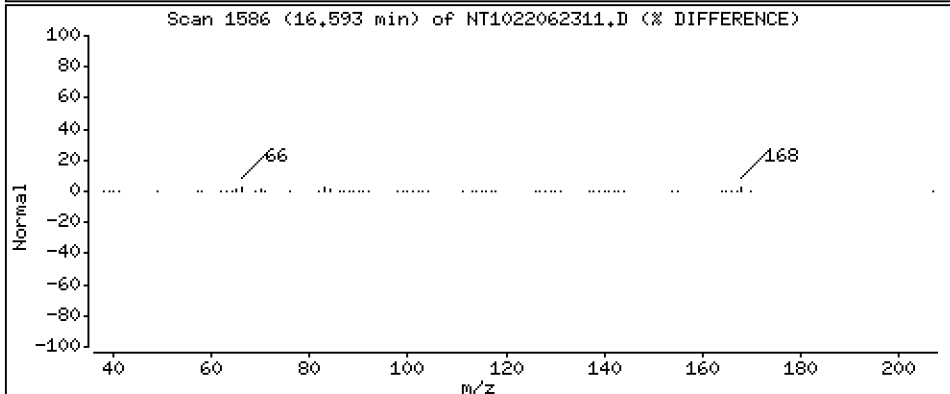
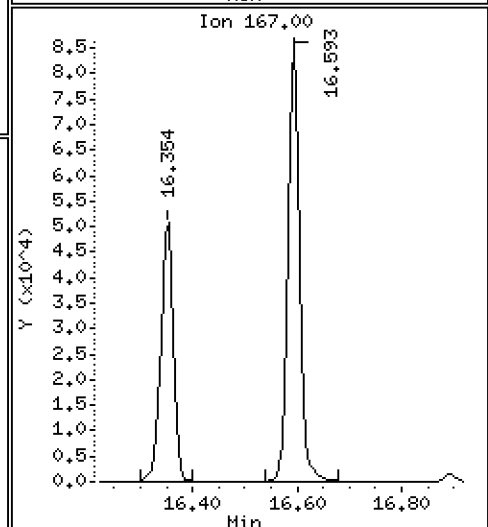
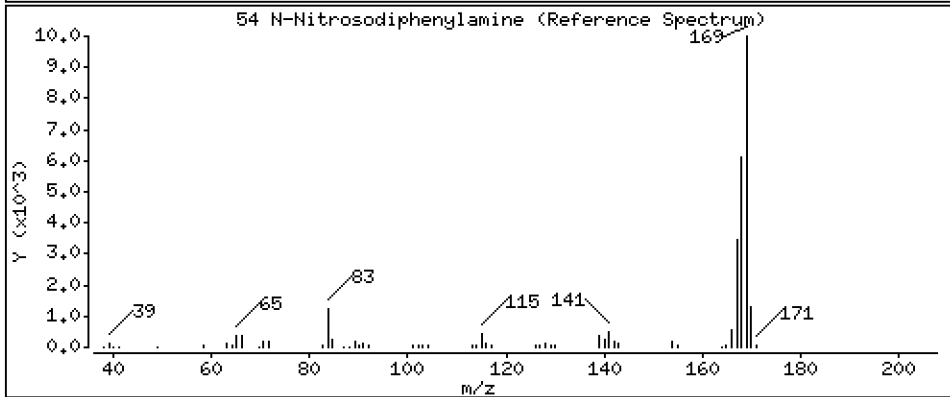
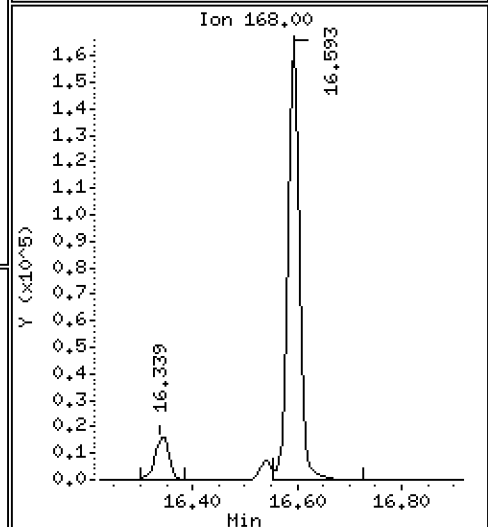
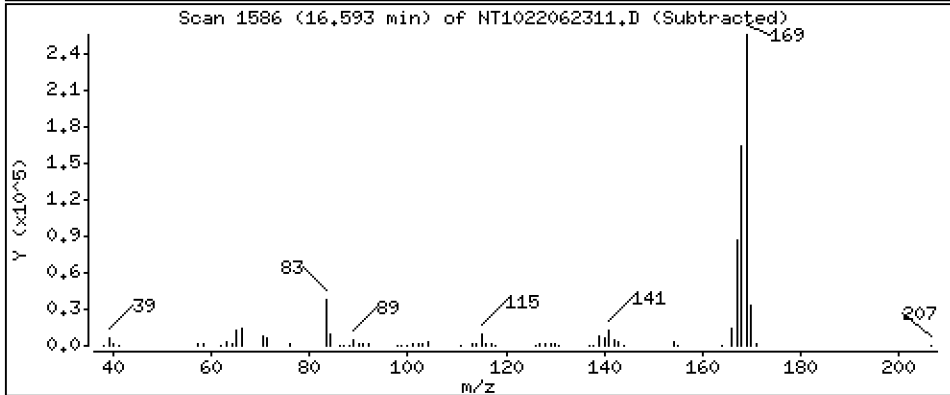
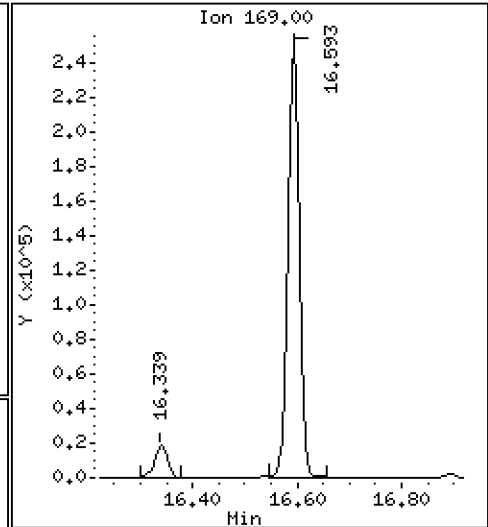
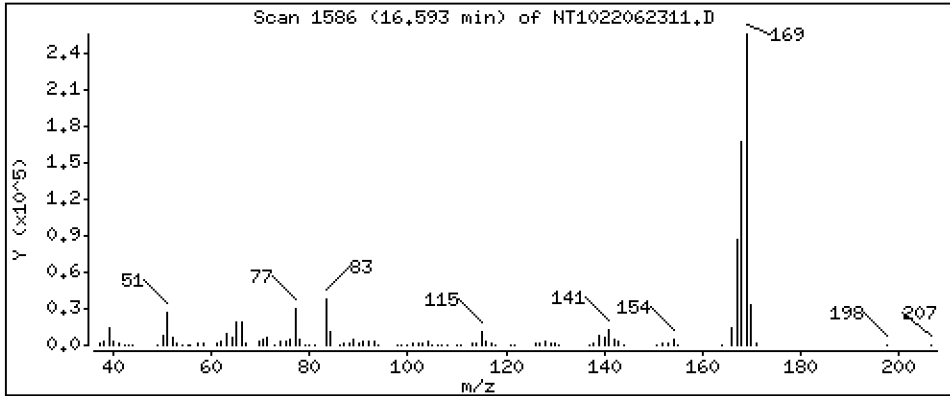
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,983 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

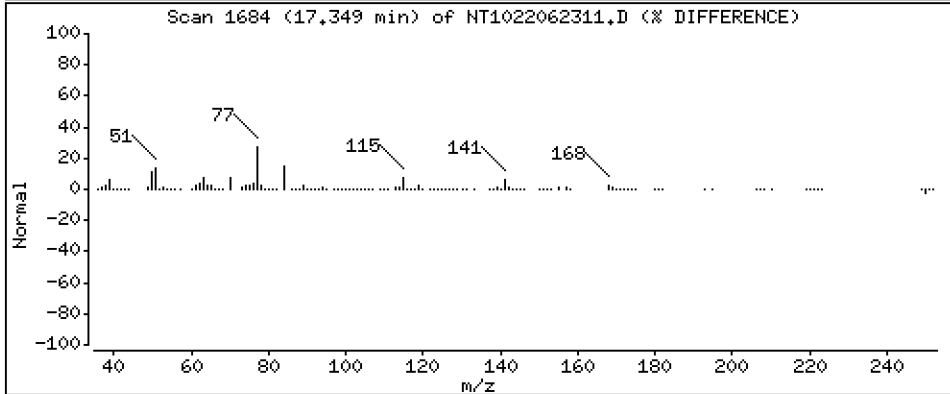
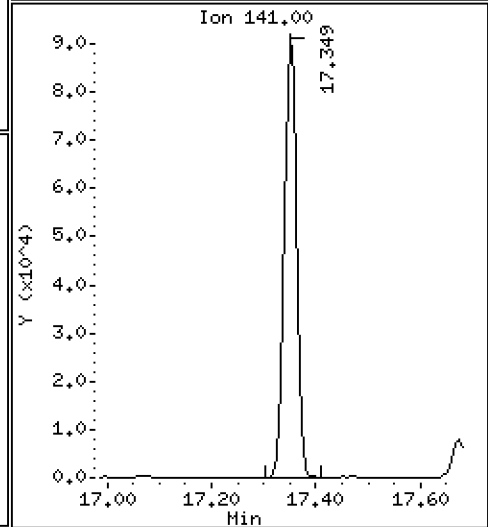
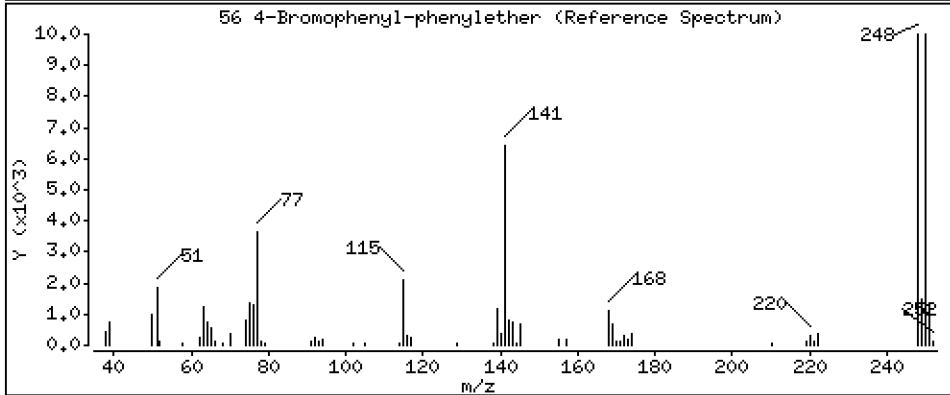
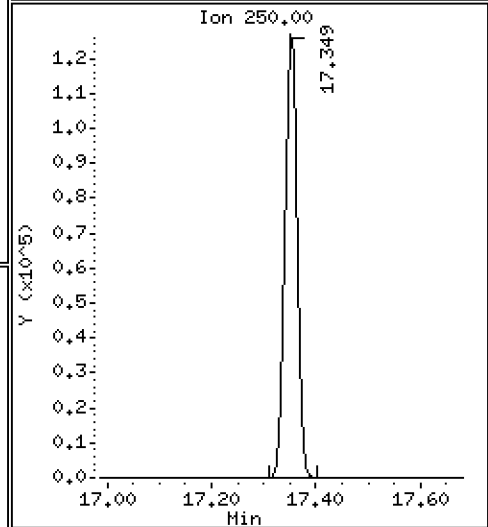
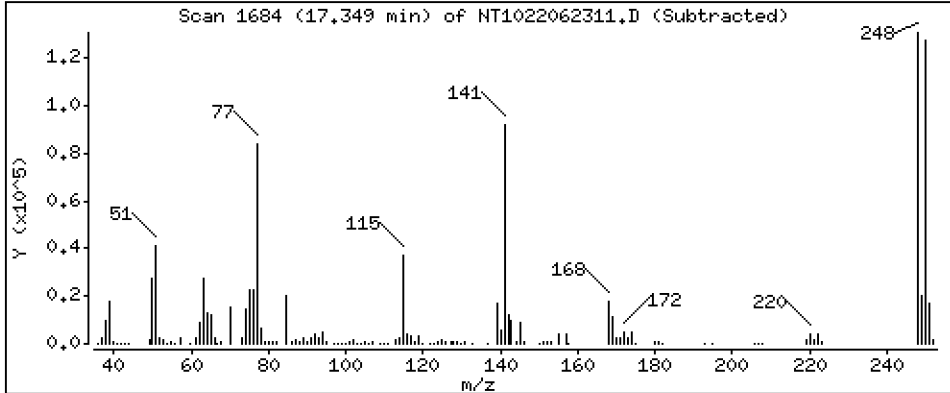
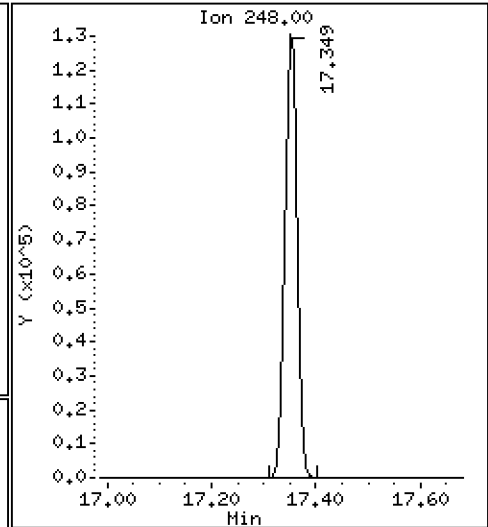
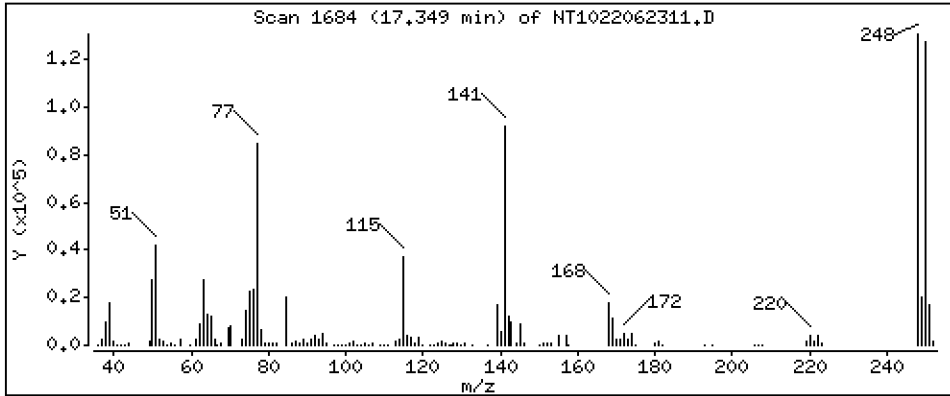
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,456 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

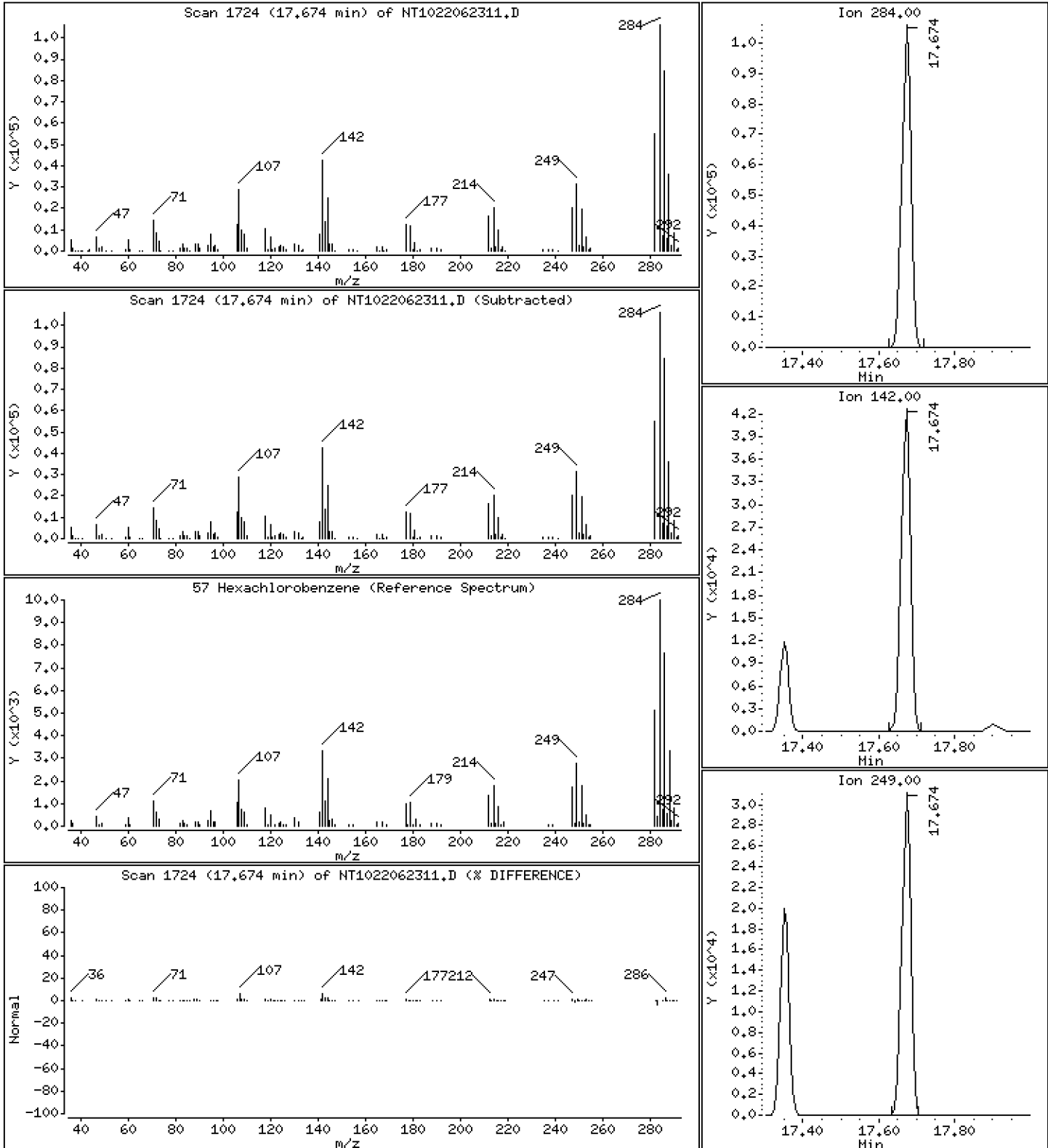
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 5,114 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

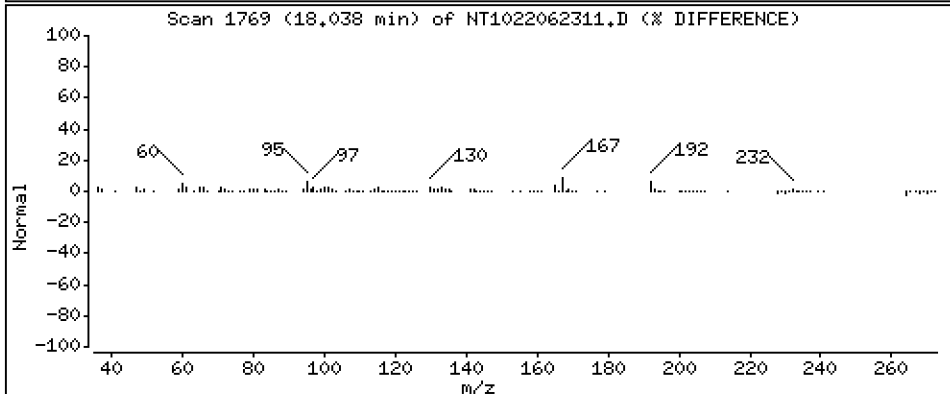
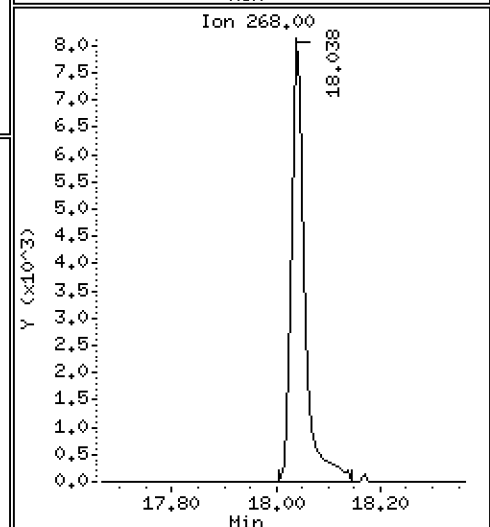
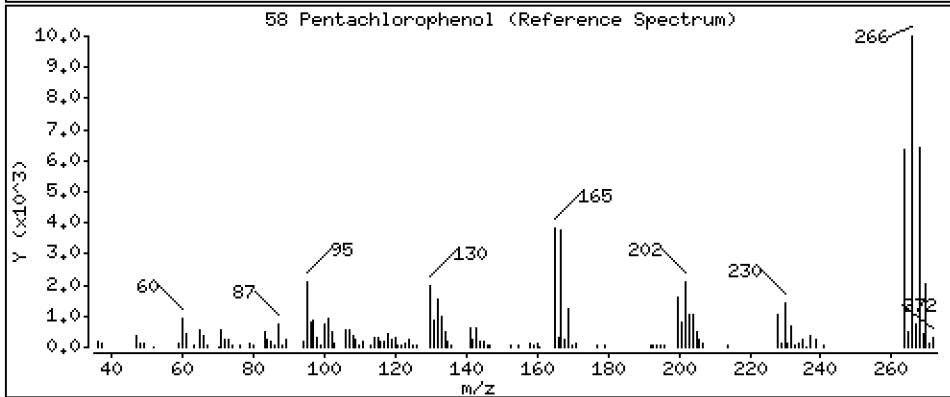
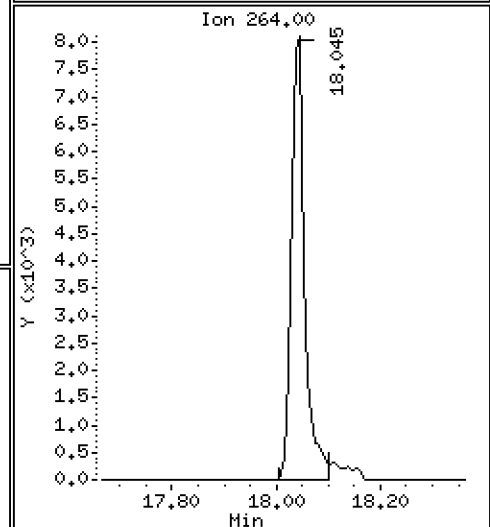
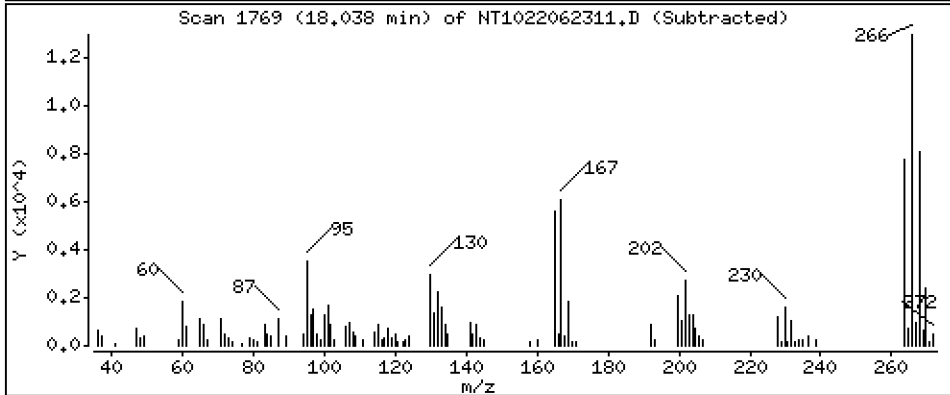
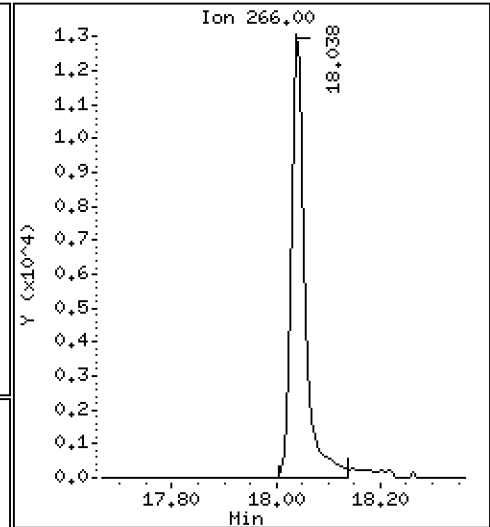
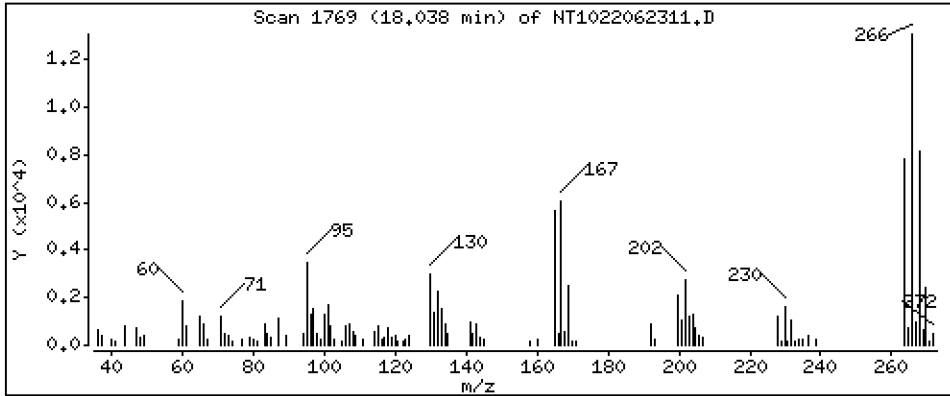
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,238 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

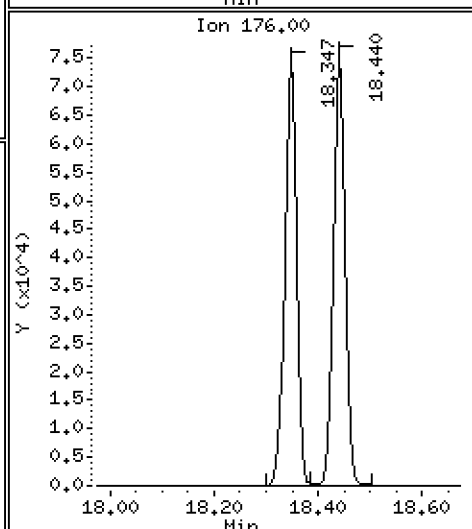
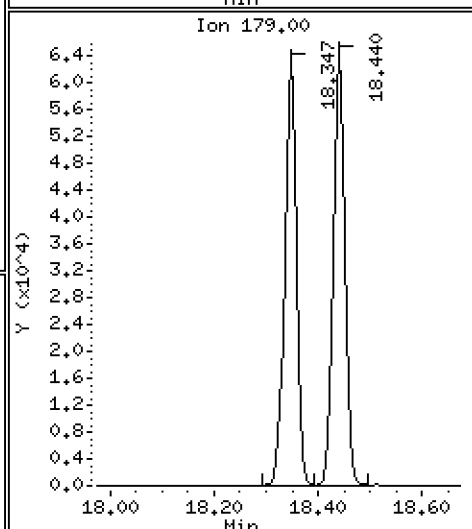
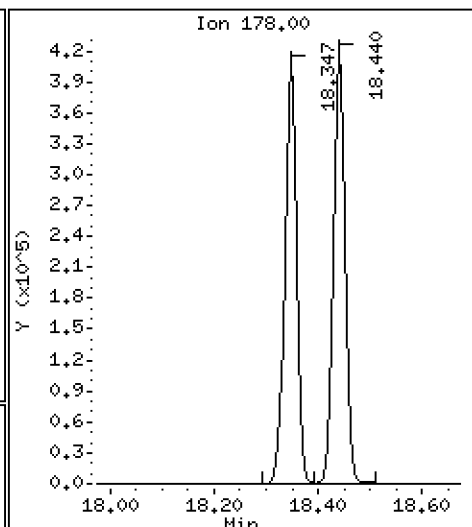
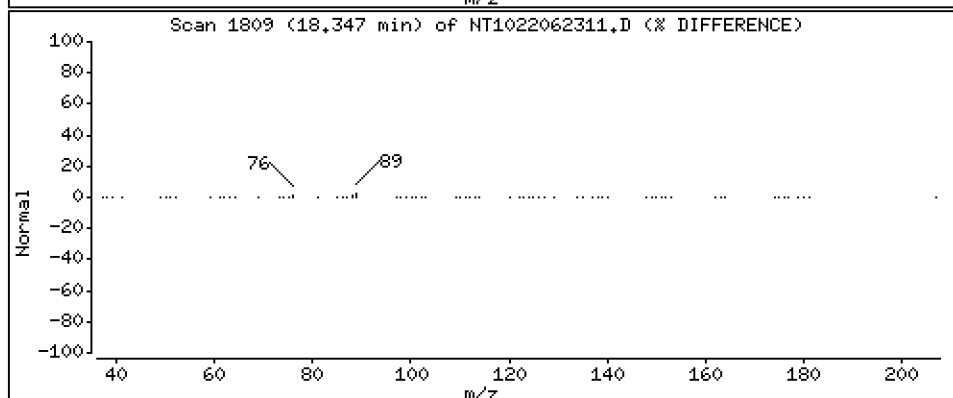
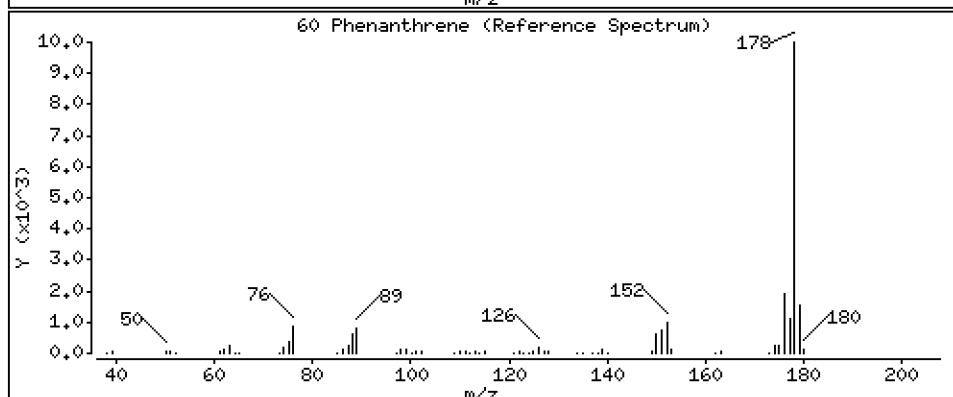
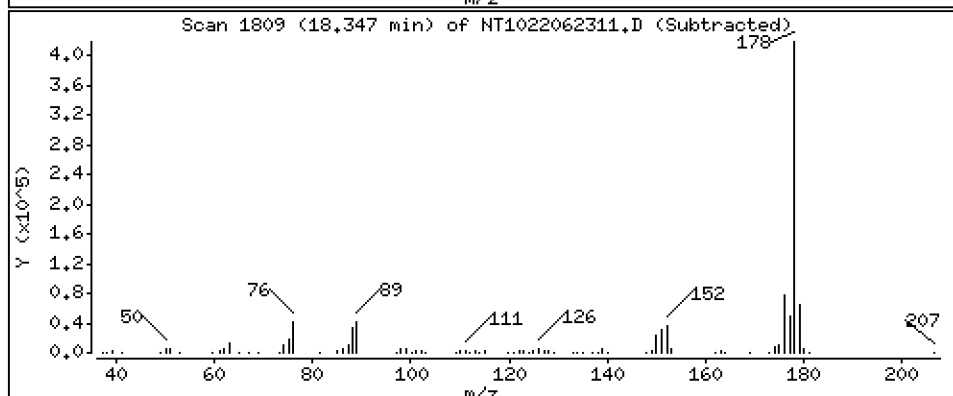
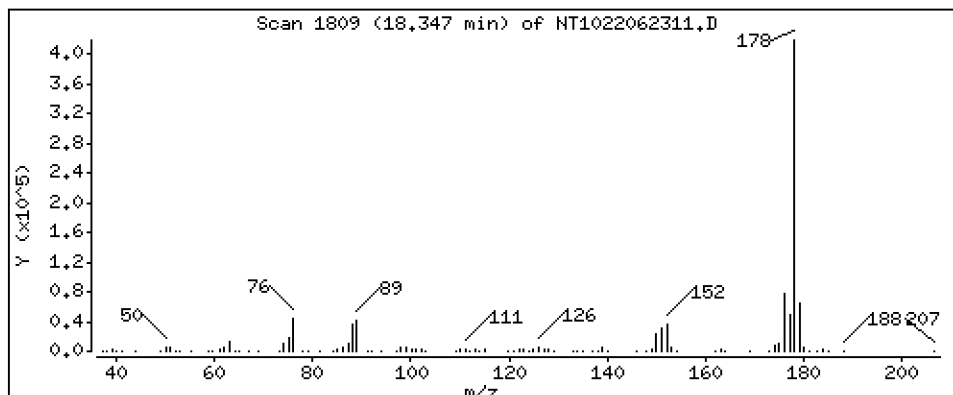
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,893 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

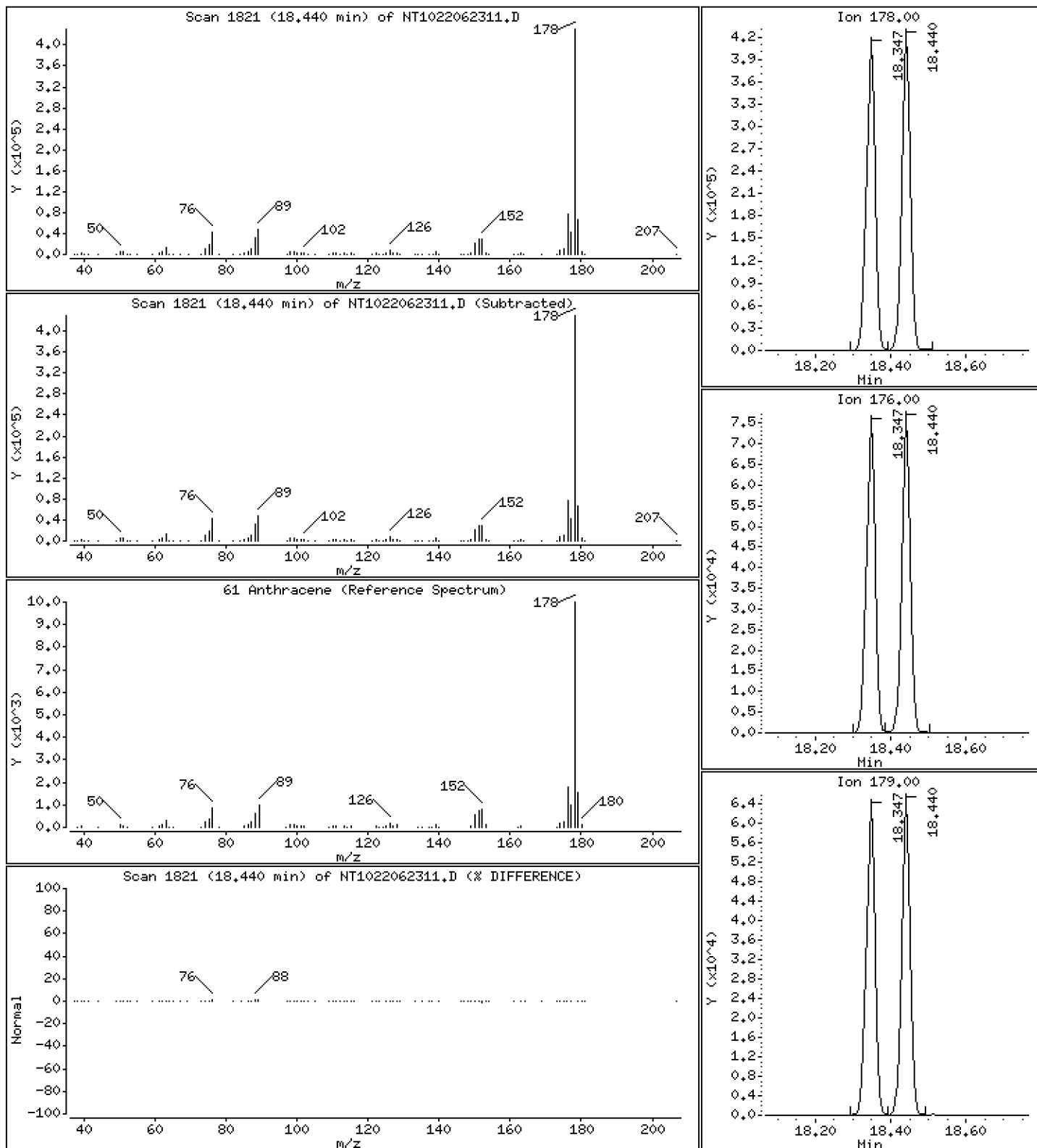
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,828 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

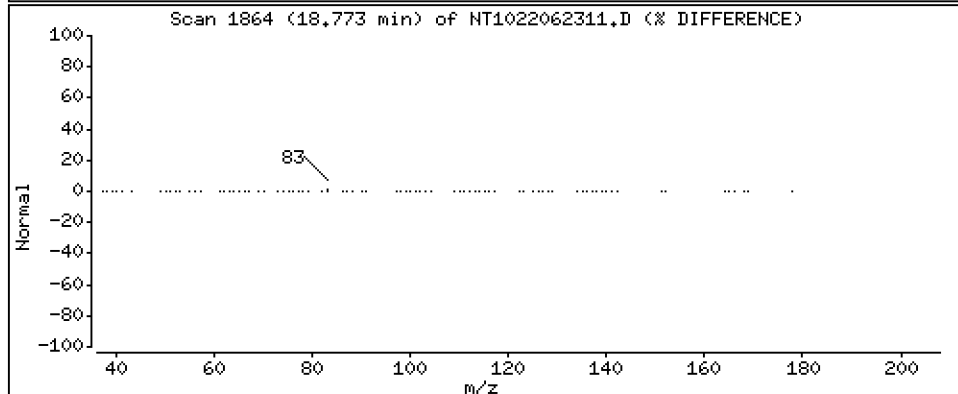
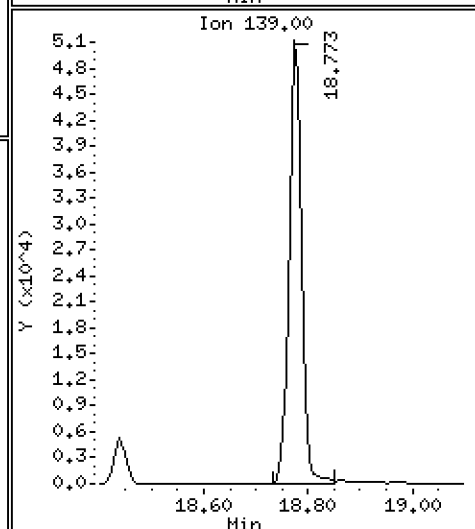
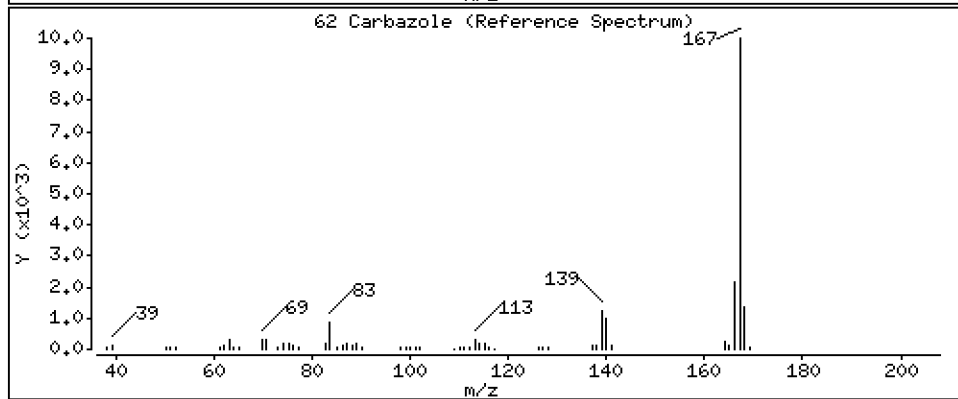
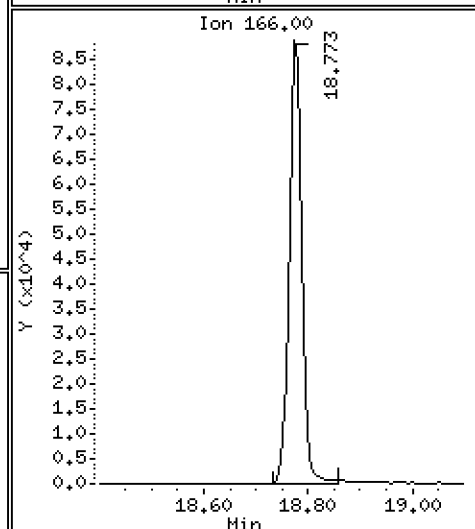
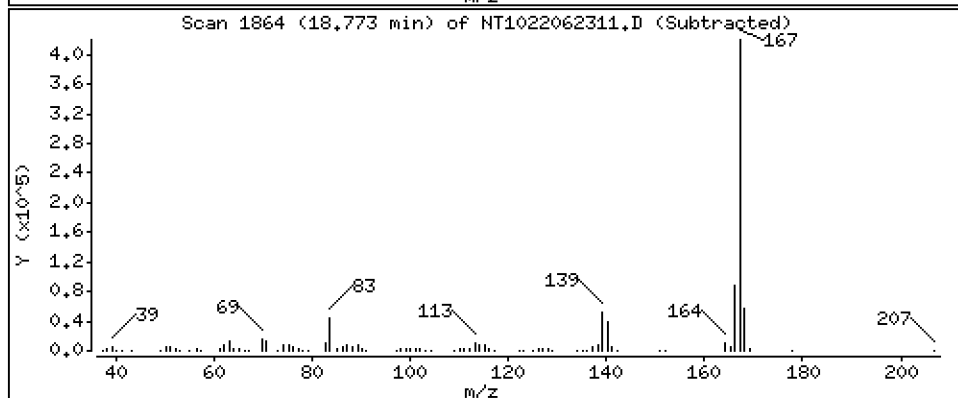
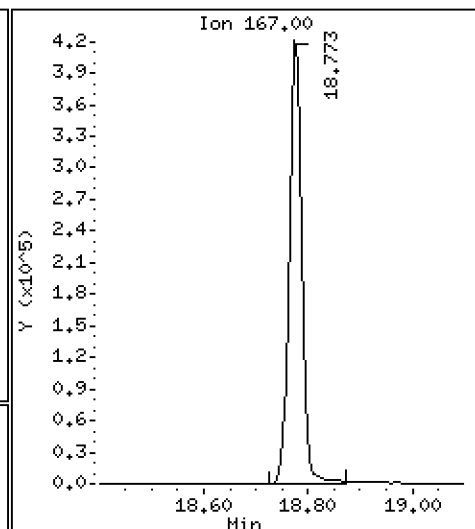
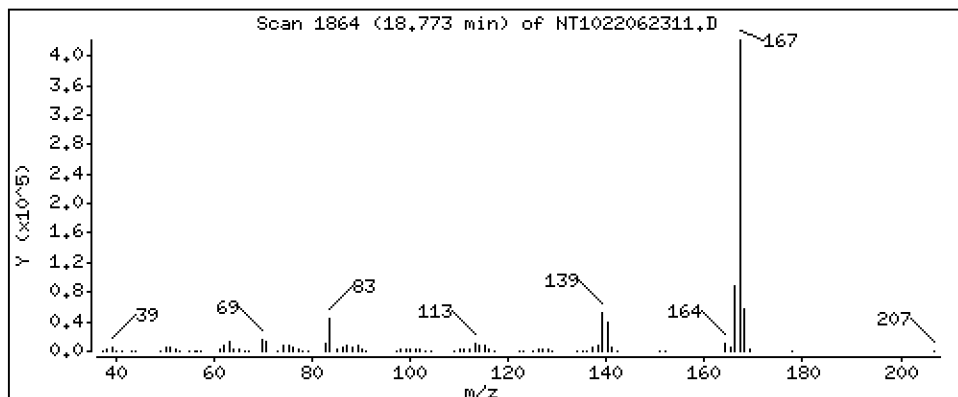
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,567 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

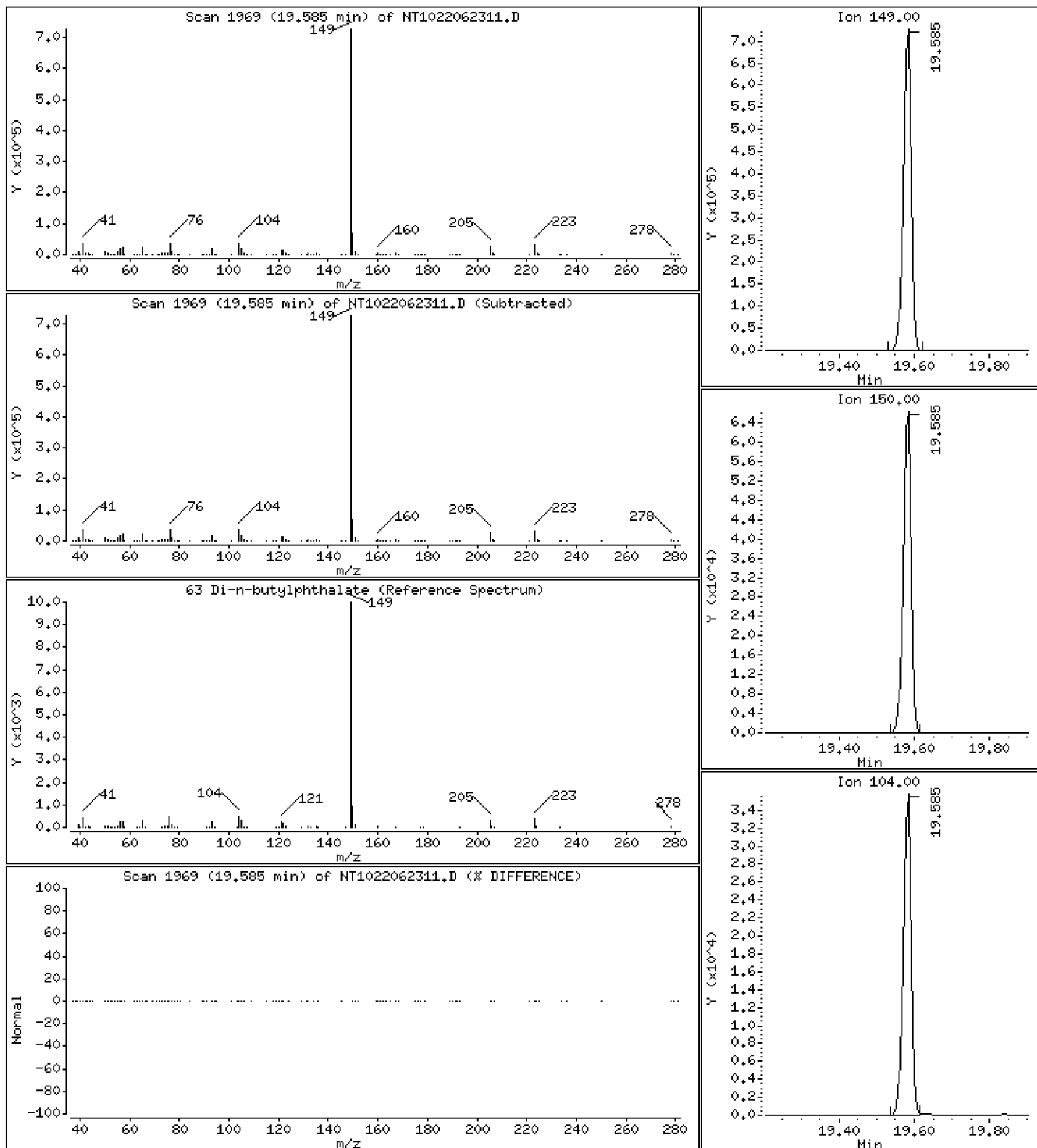
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 5.328 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

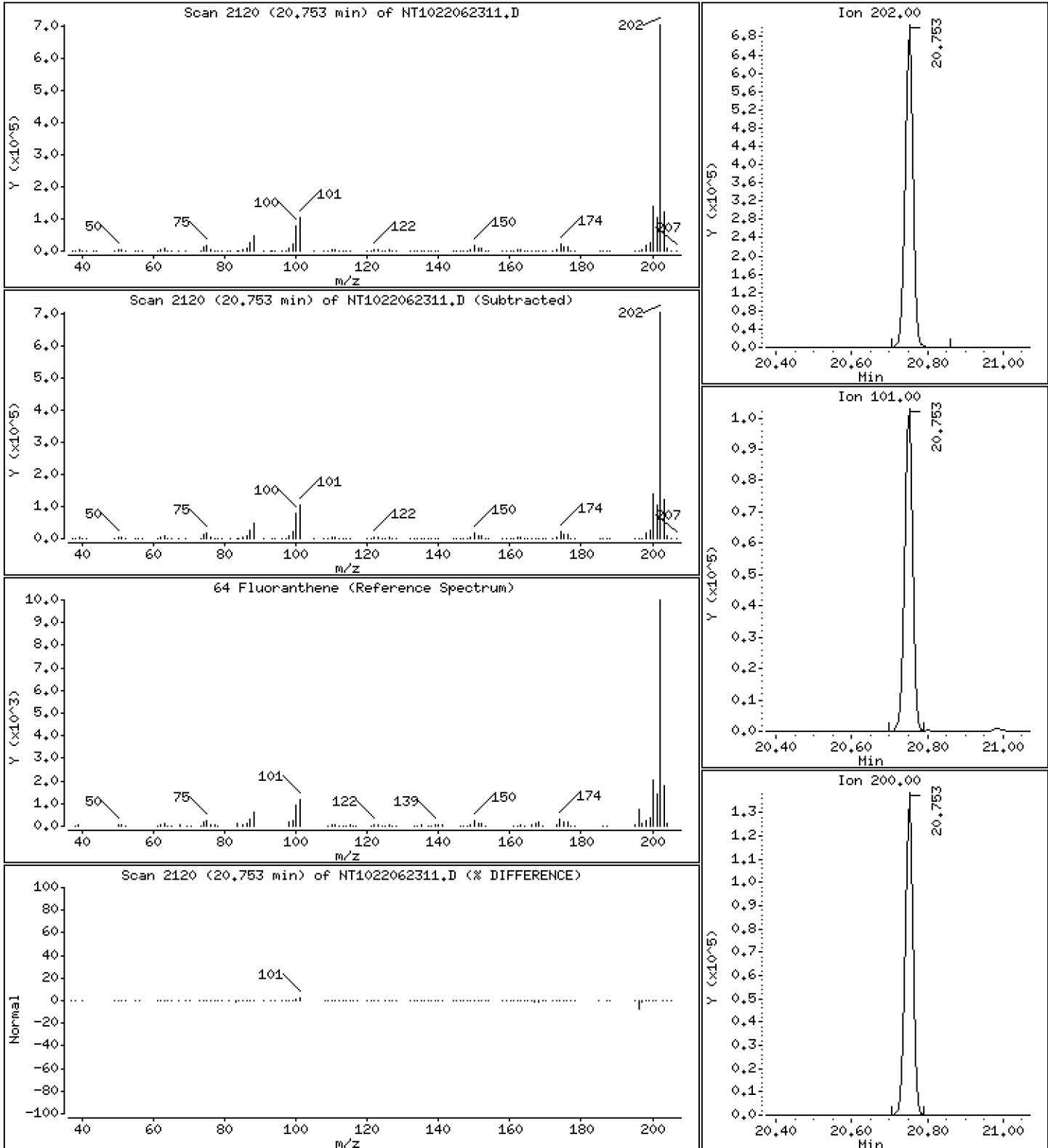
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,192 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

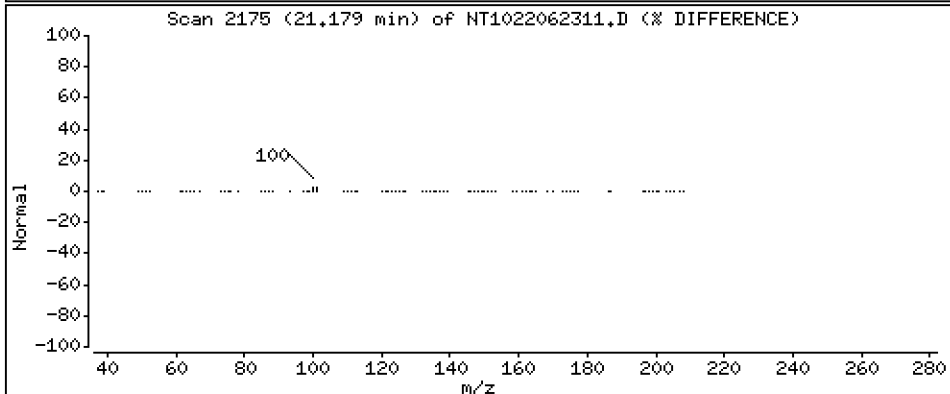
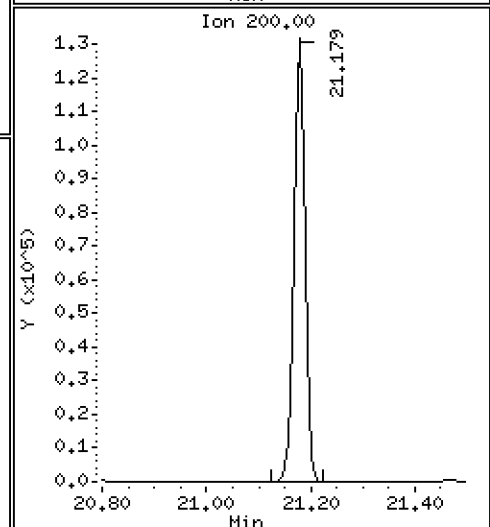
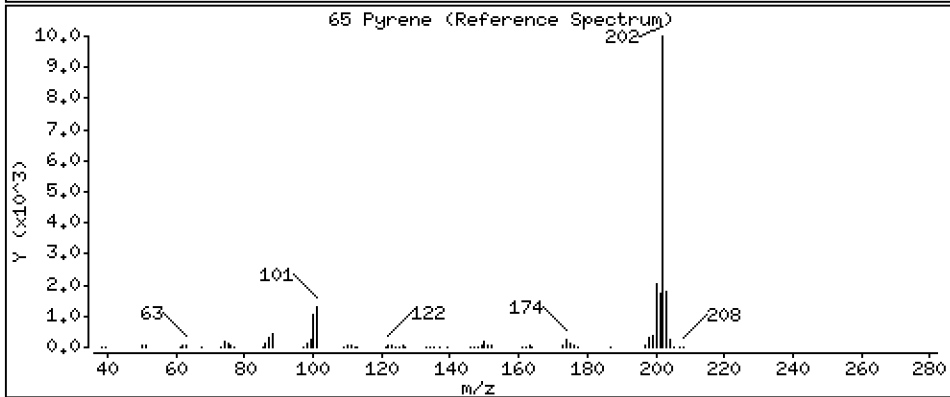
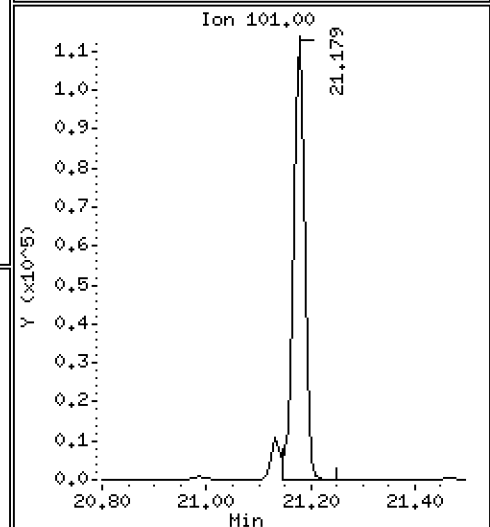
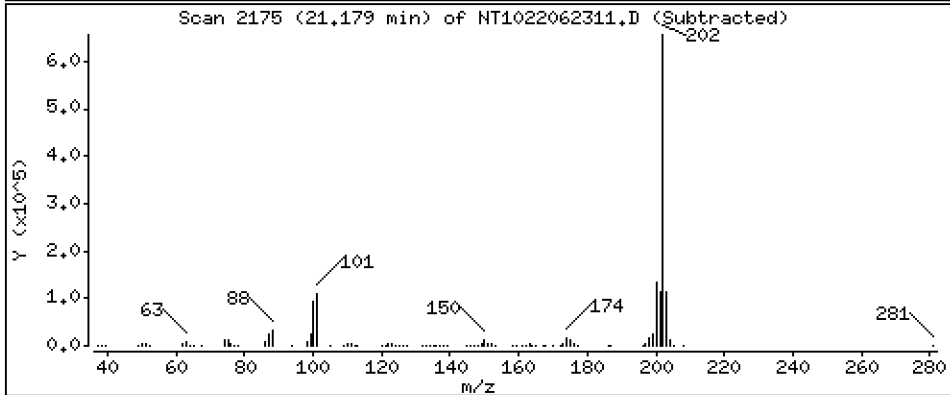
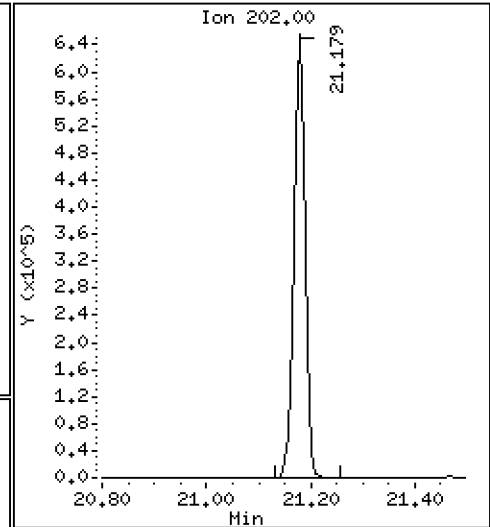
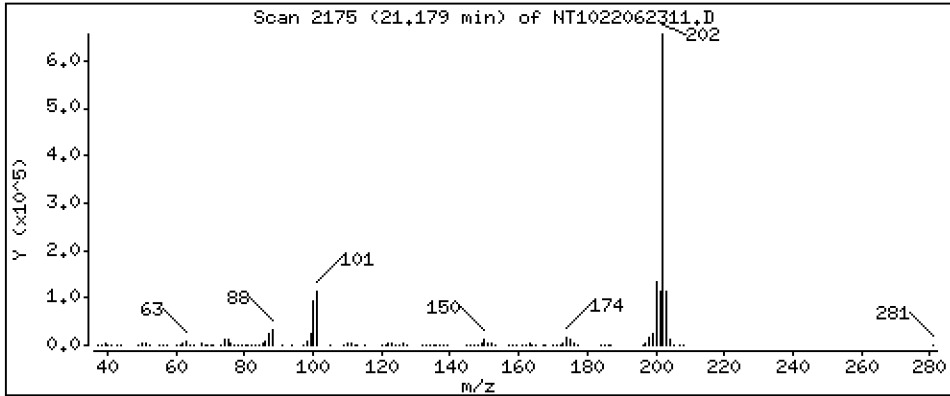
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,572 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

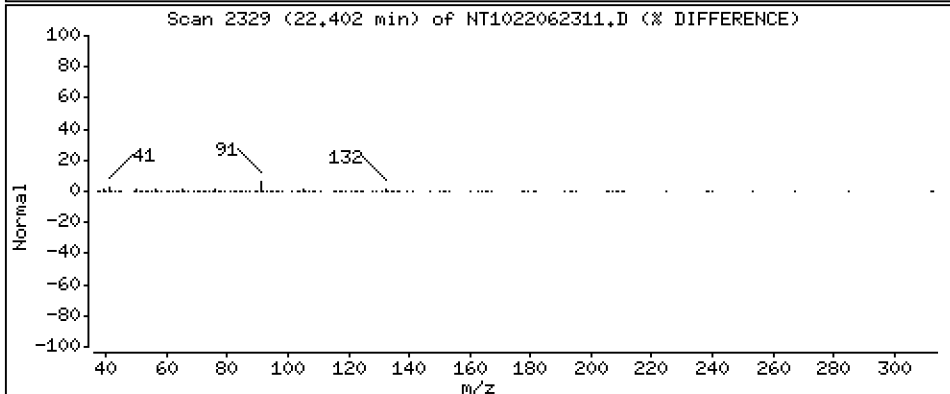
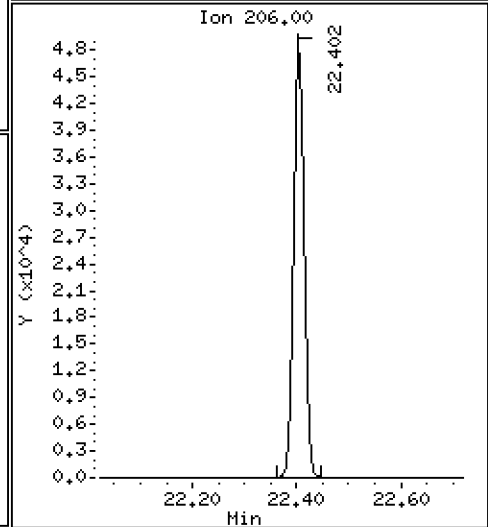
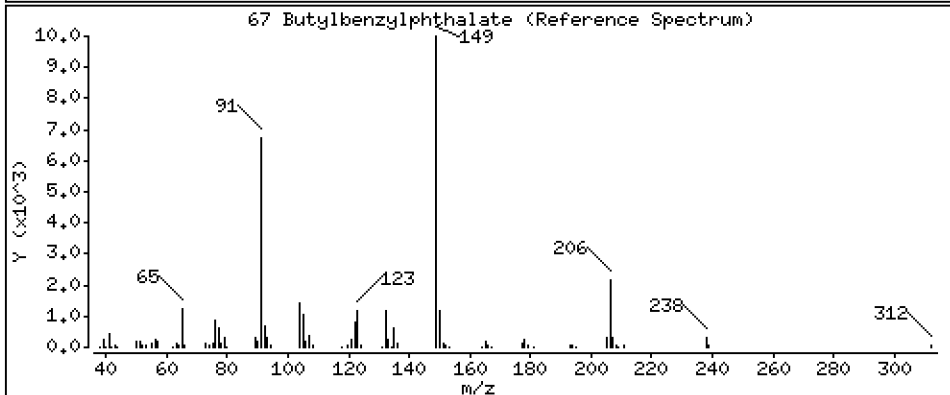
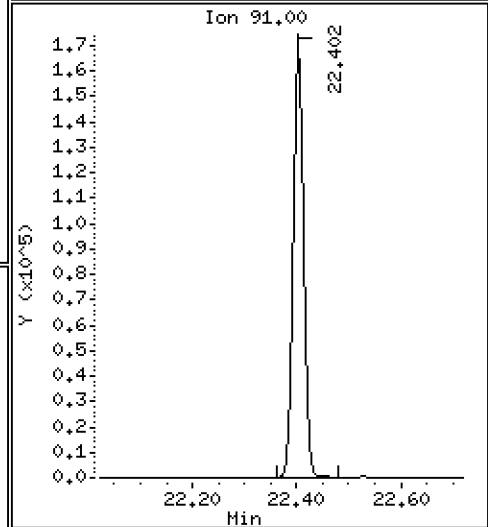
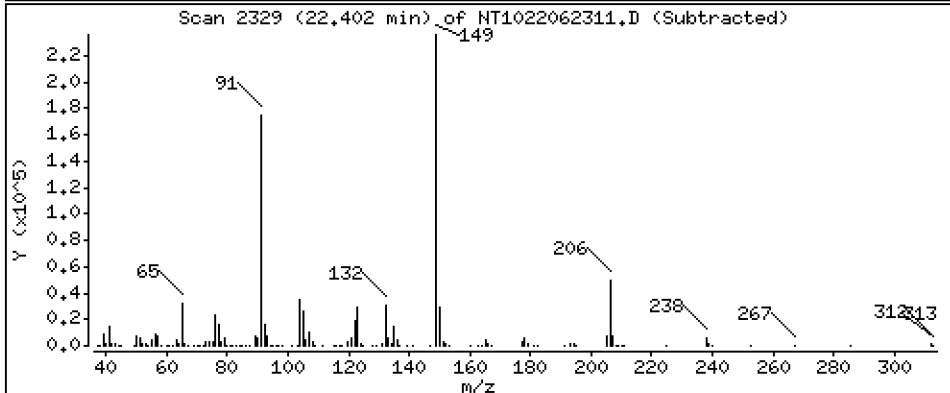
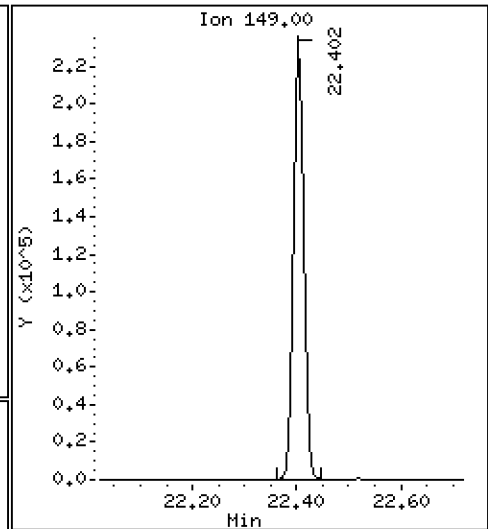
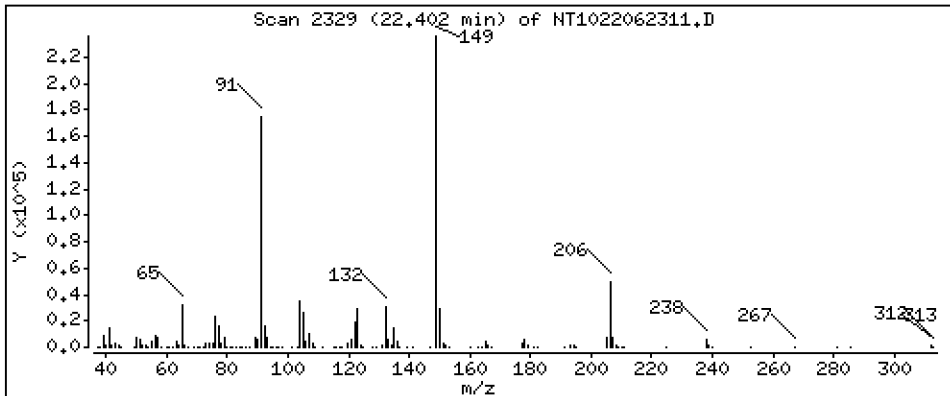
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,860 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

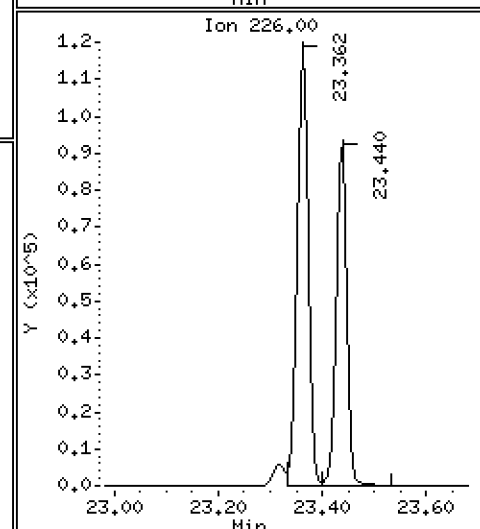
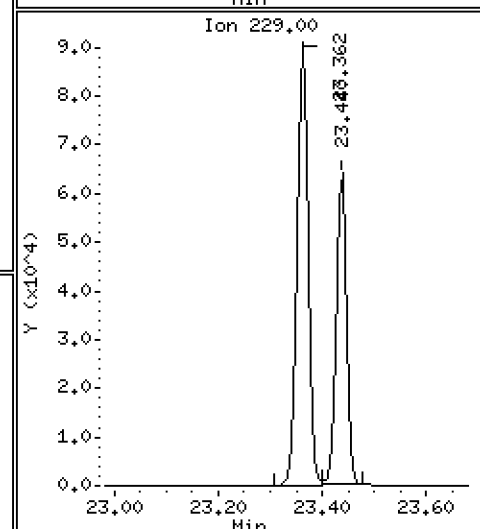
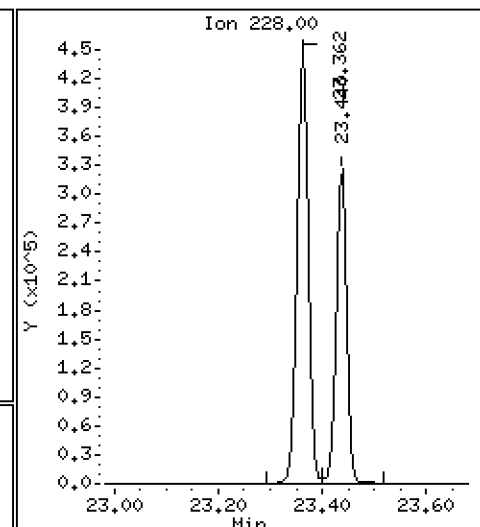
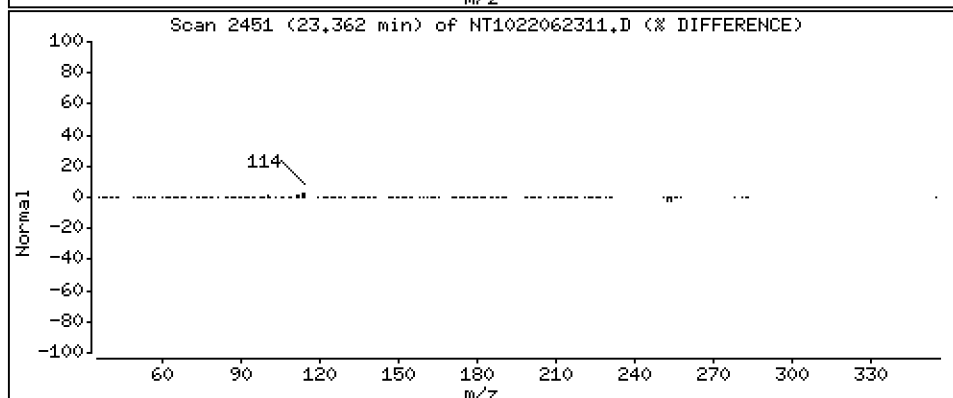
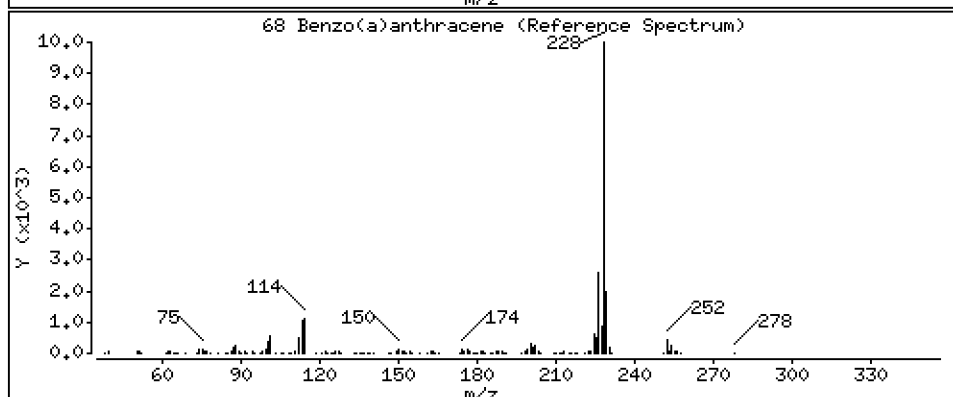
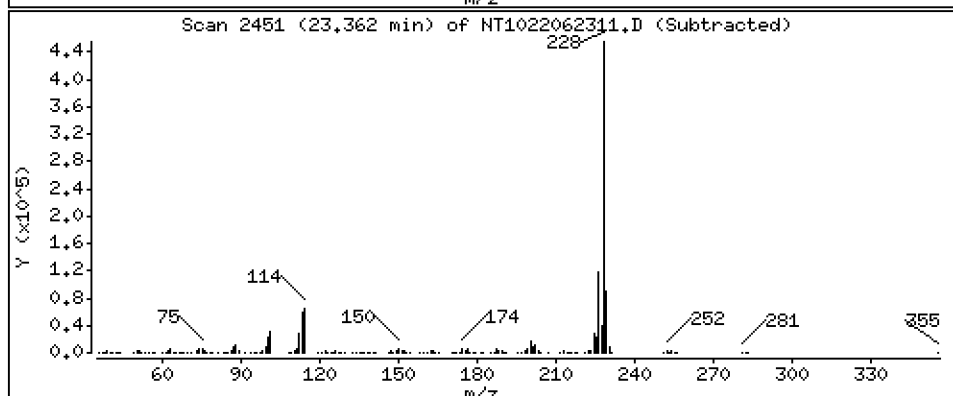
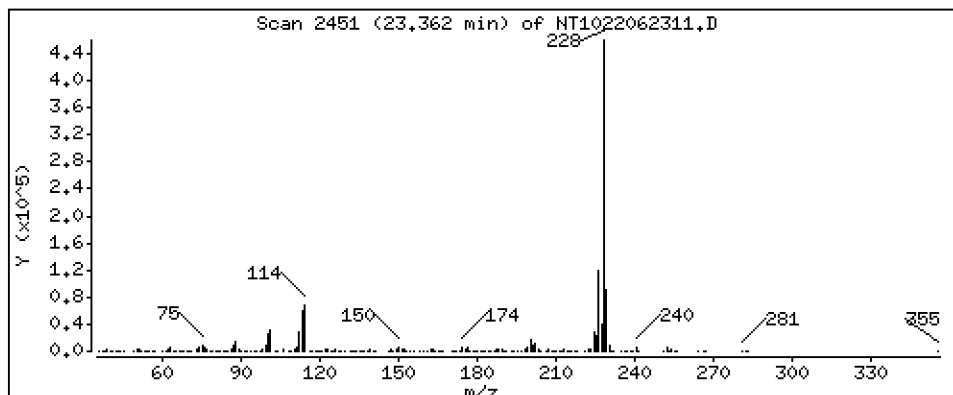
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,852 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

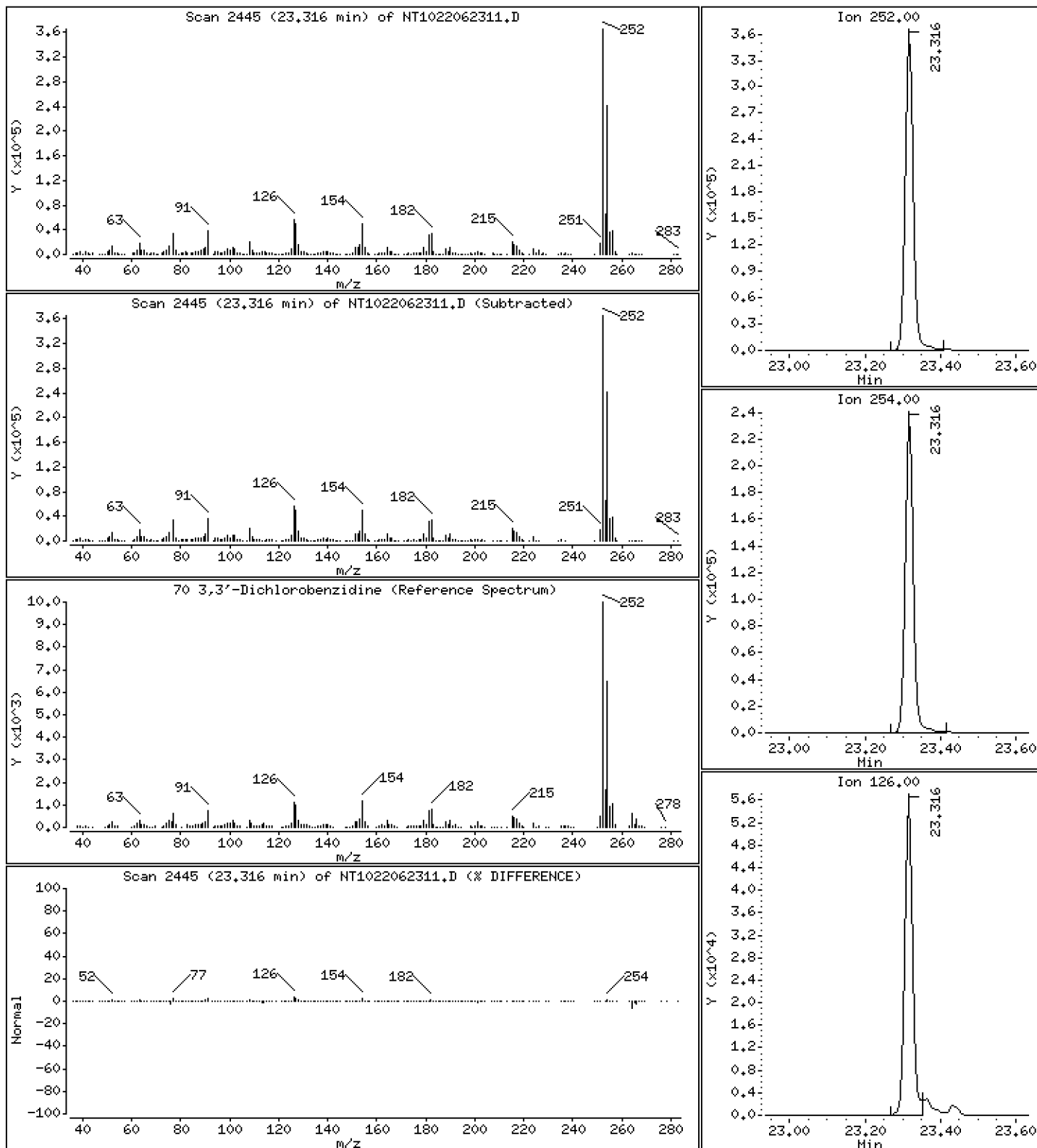
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 11,77 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

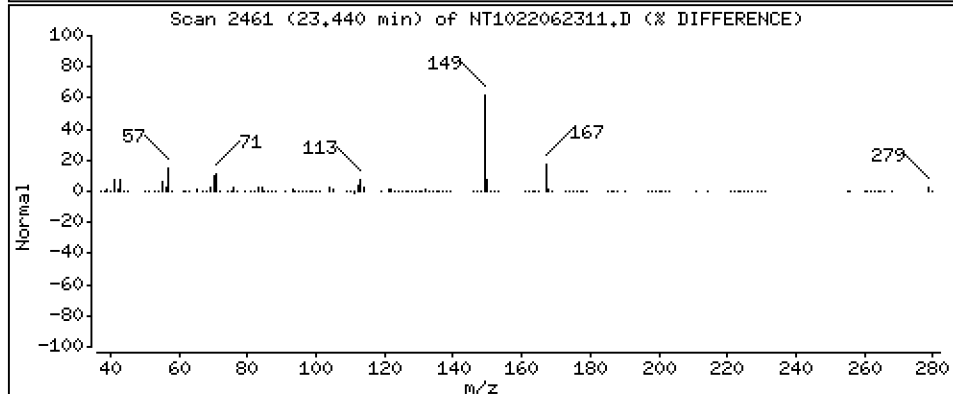
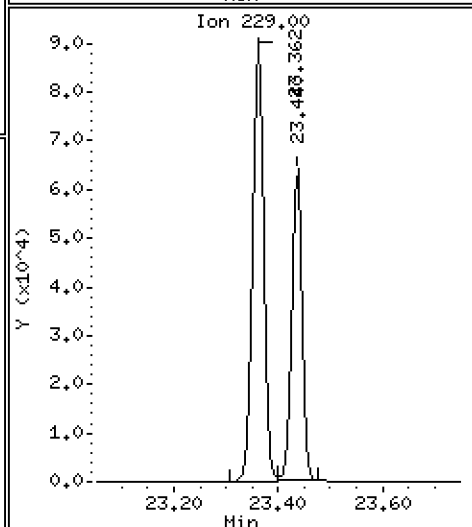
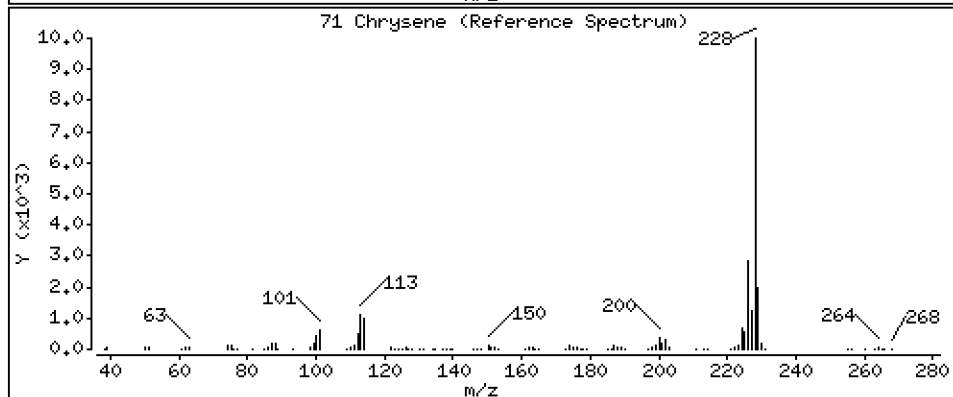
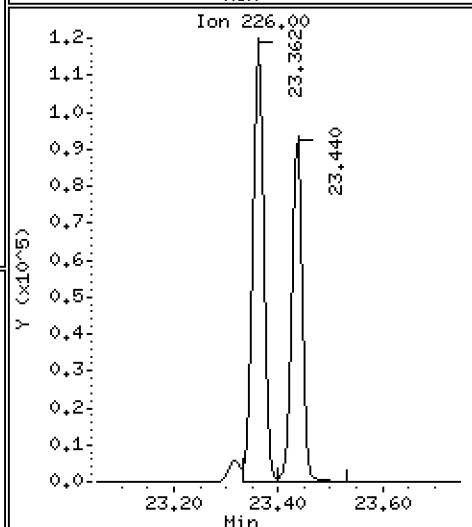
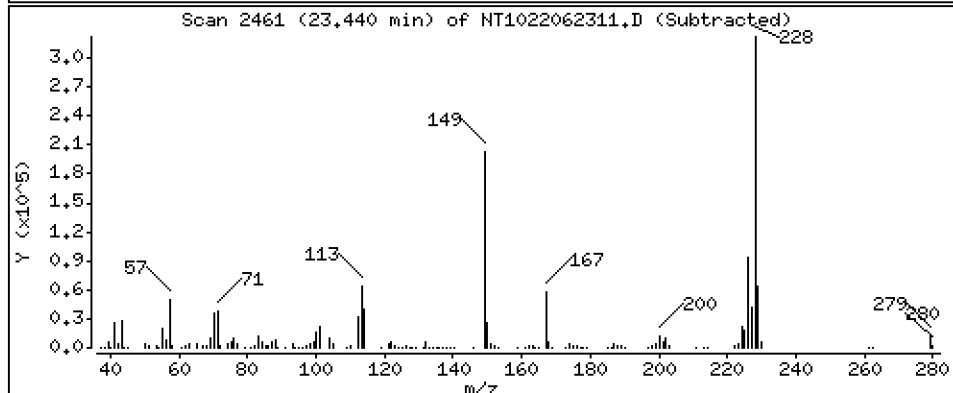
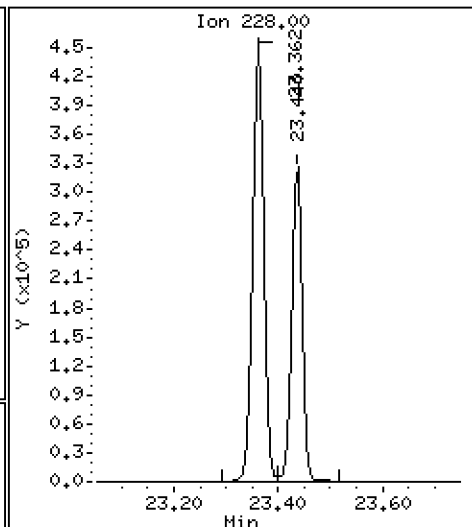
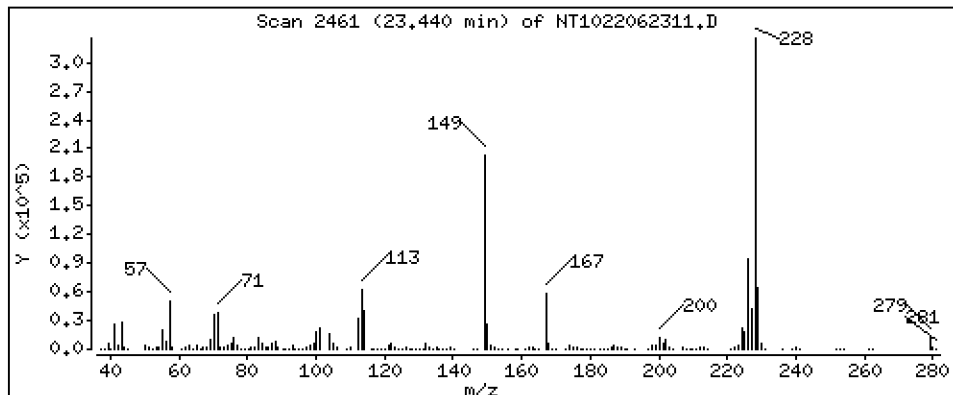
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,725 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

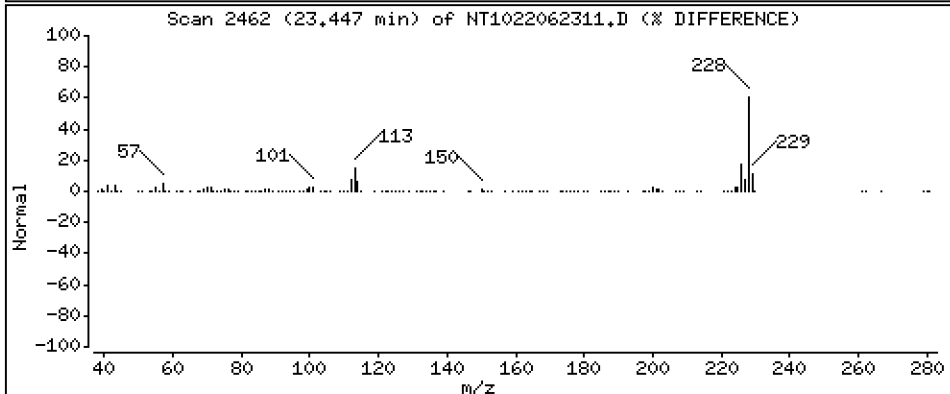
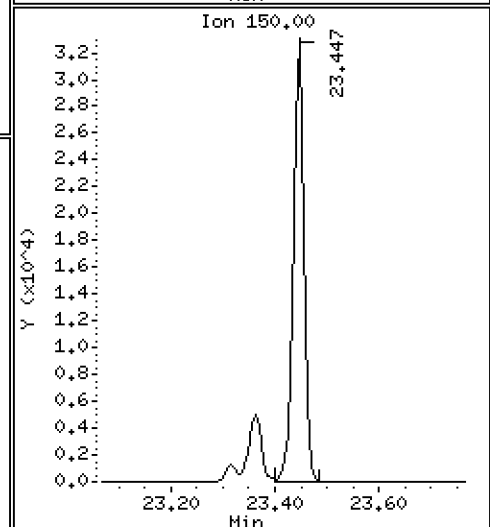
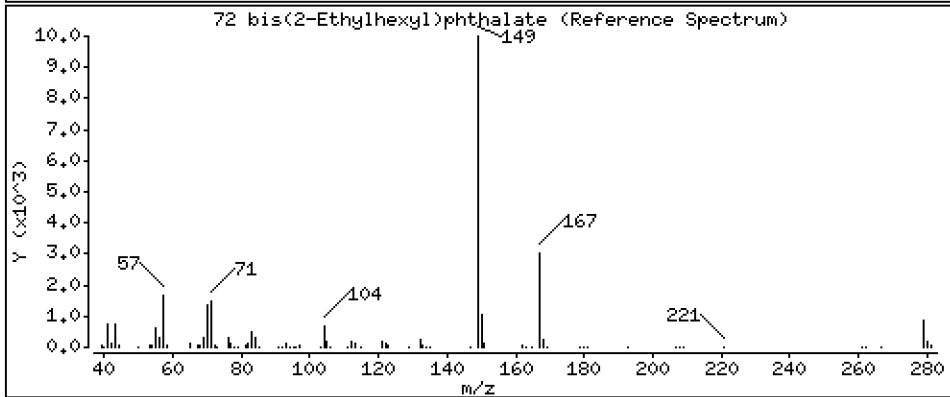
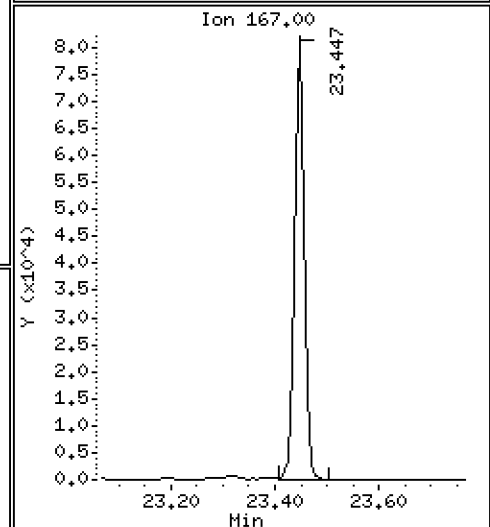
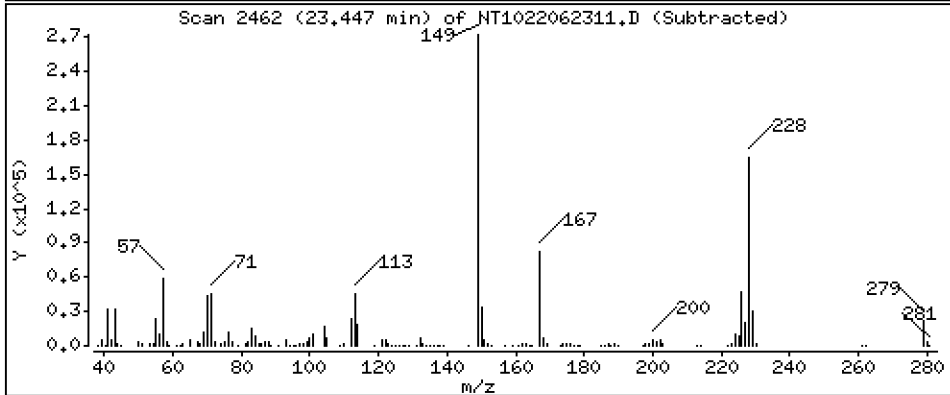
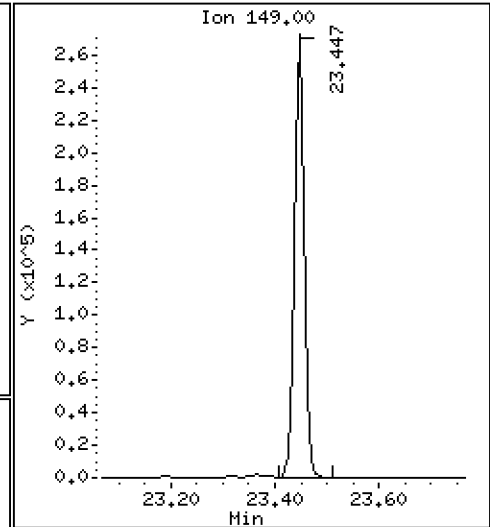
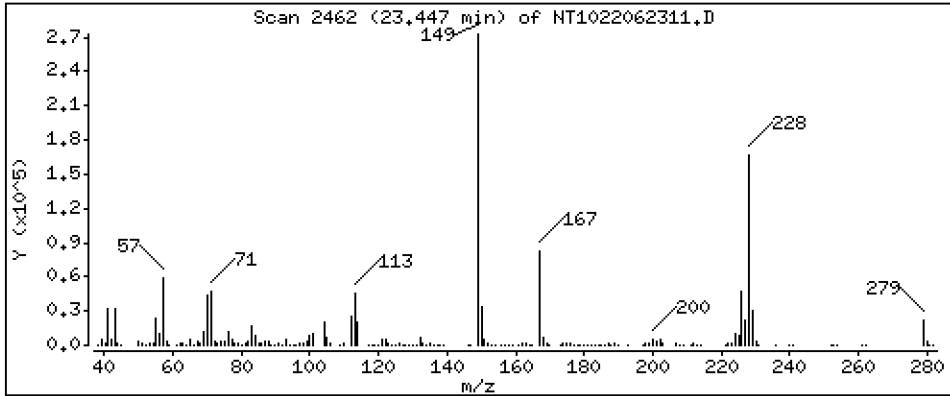
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,061 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

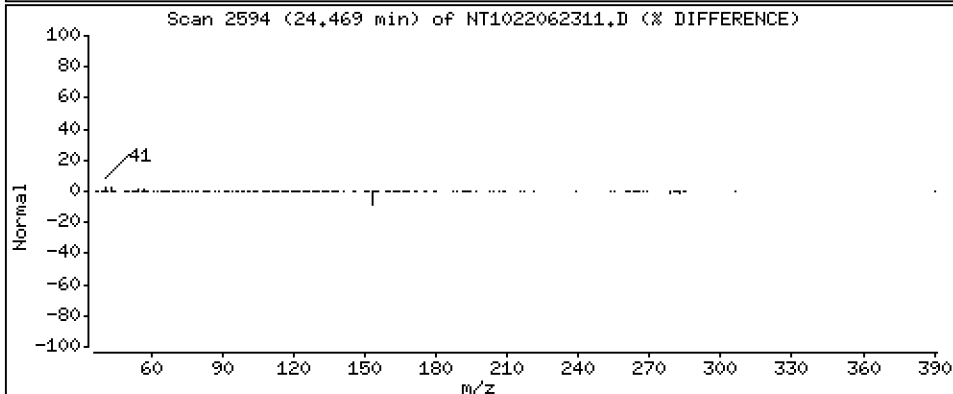
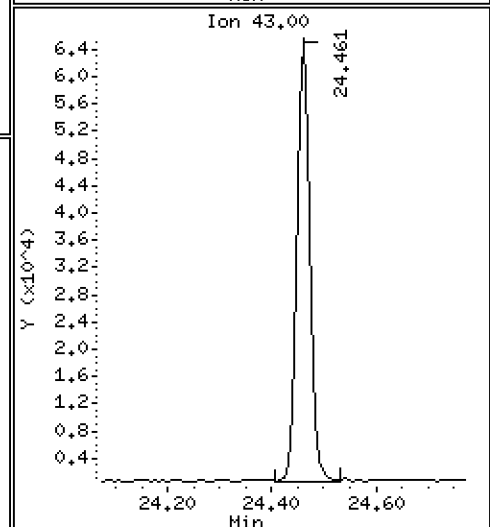
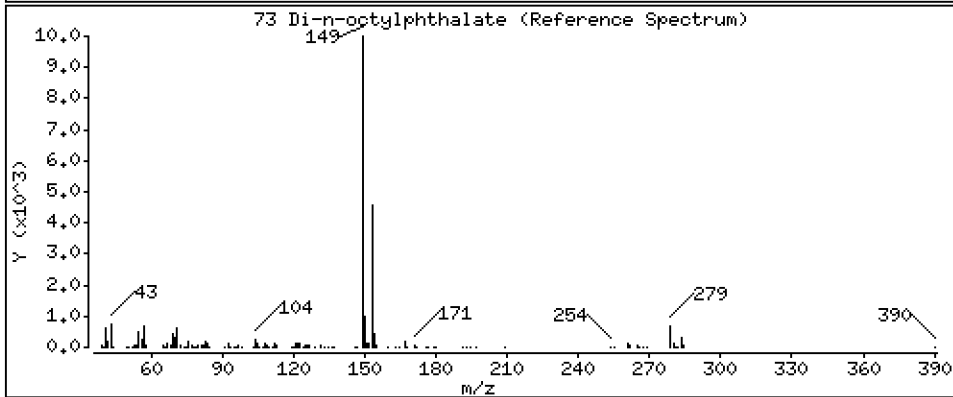
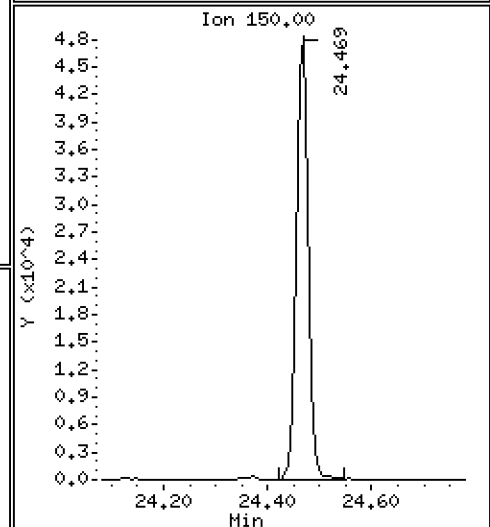
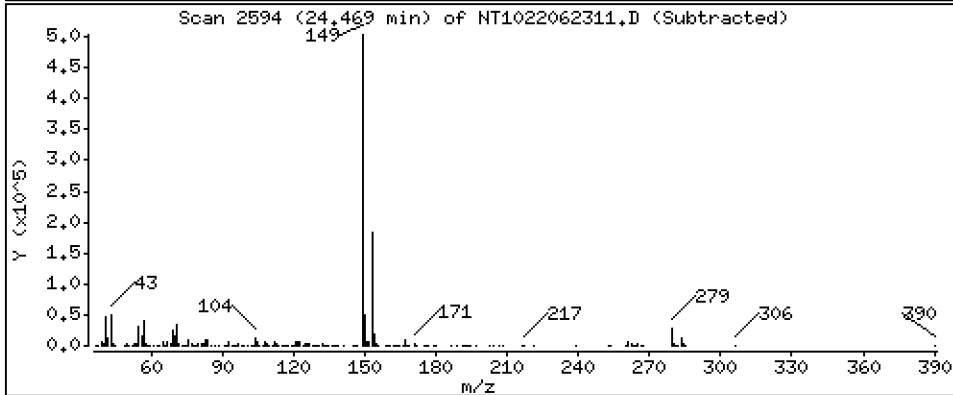
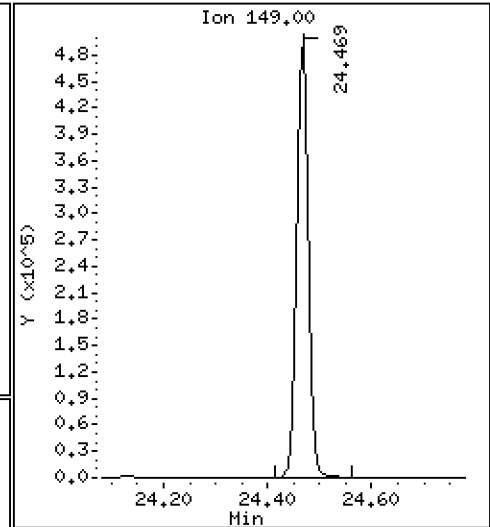
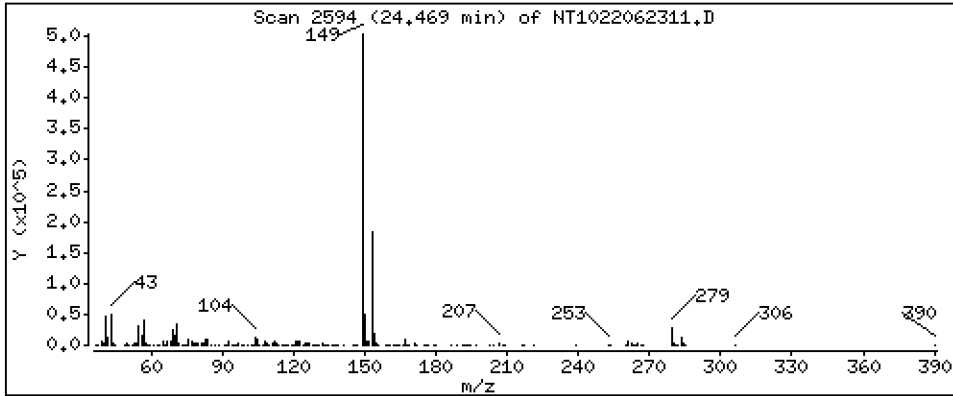
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,502 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

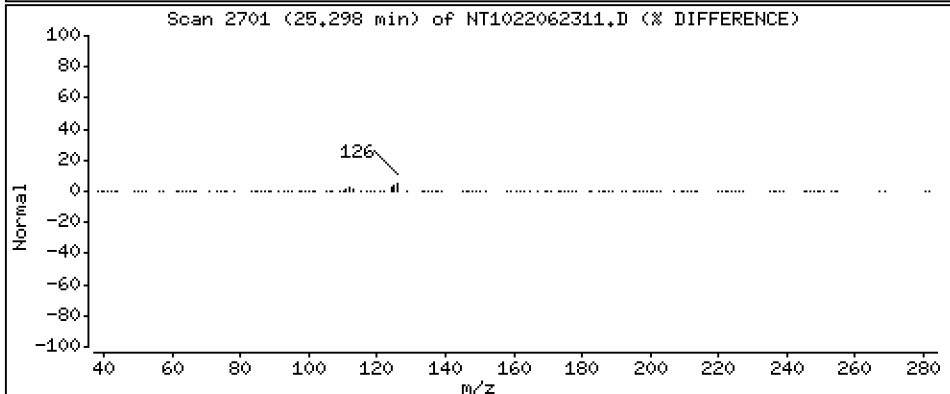
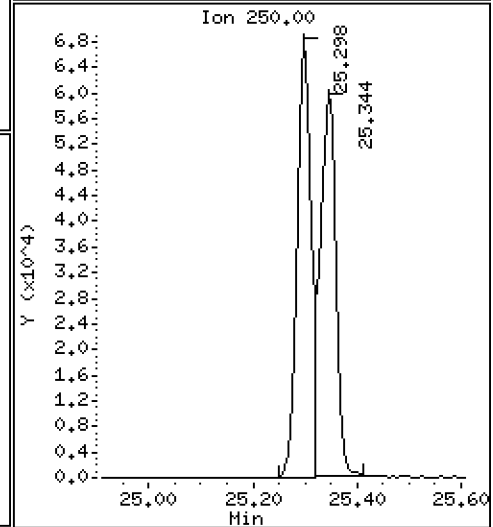
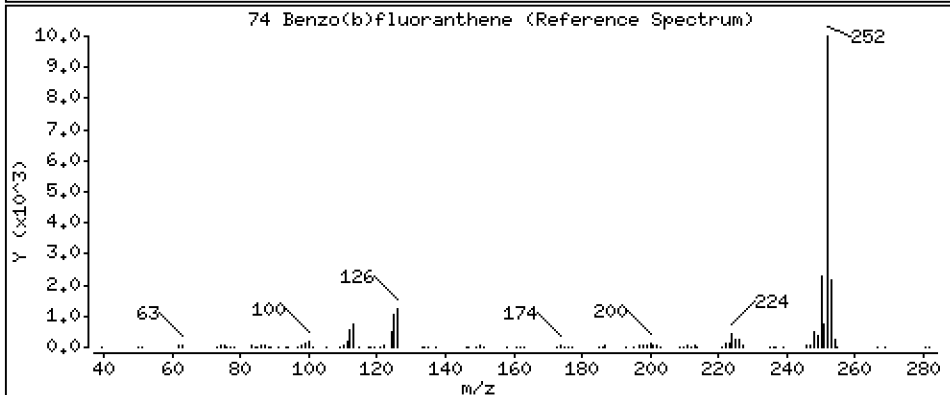
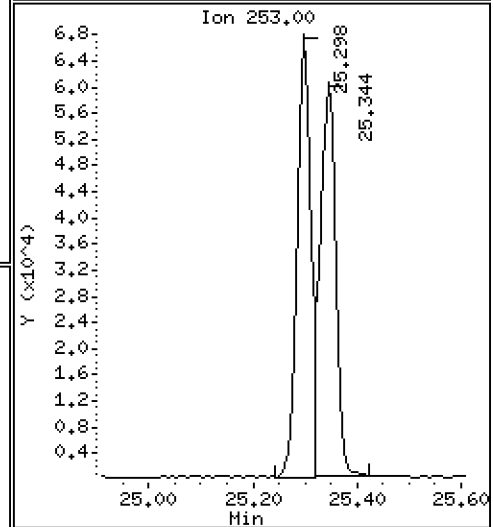
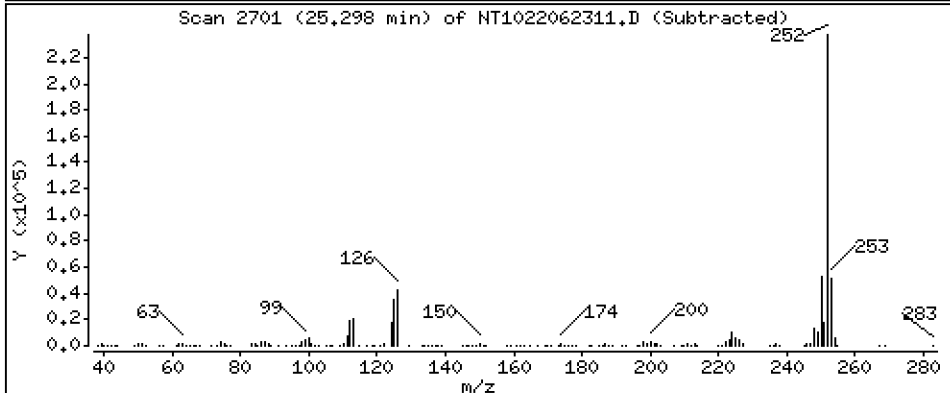
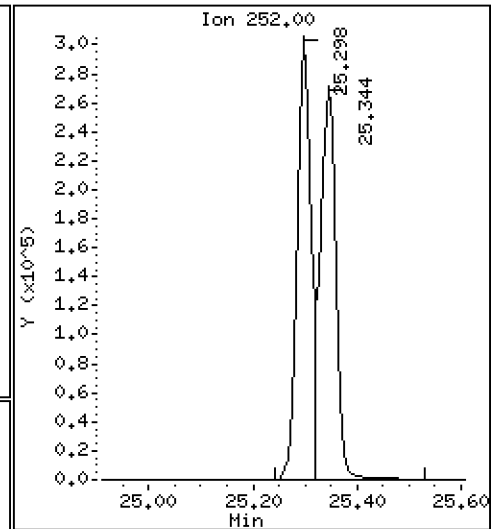
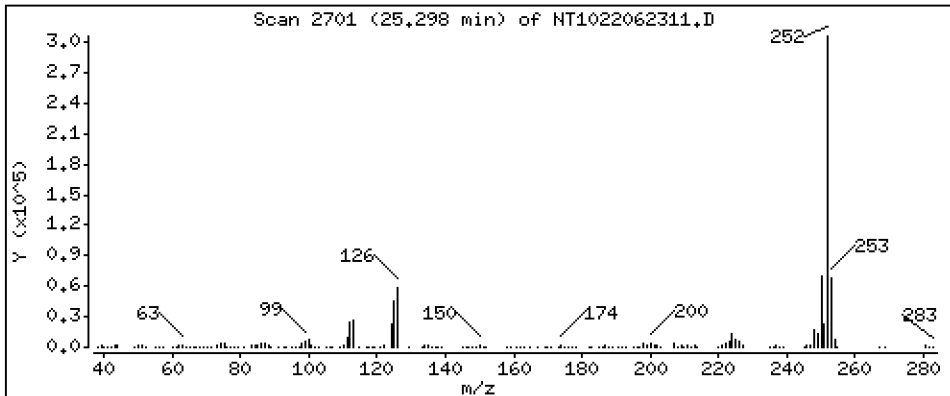
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,955 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

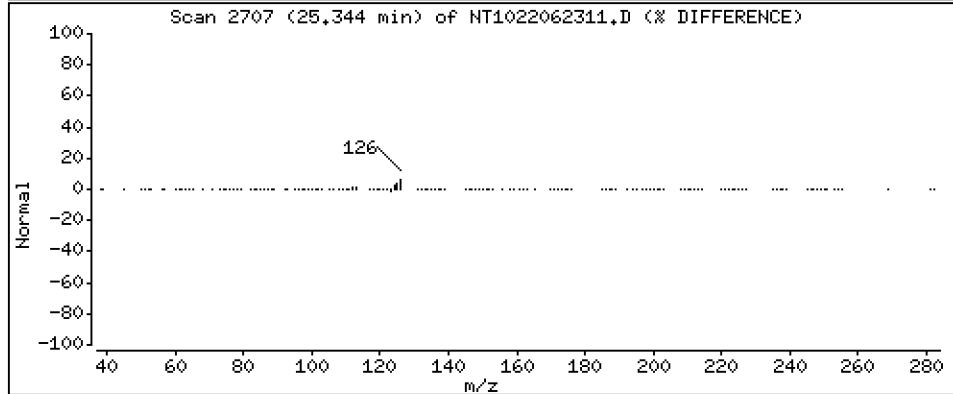
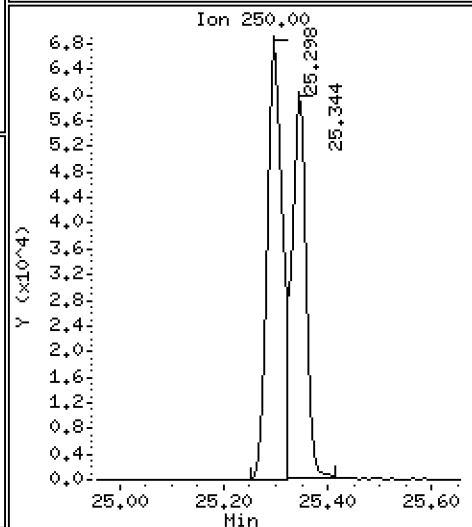
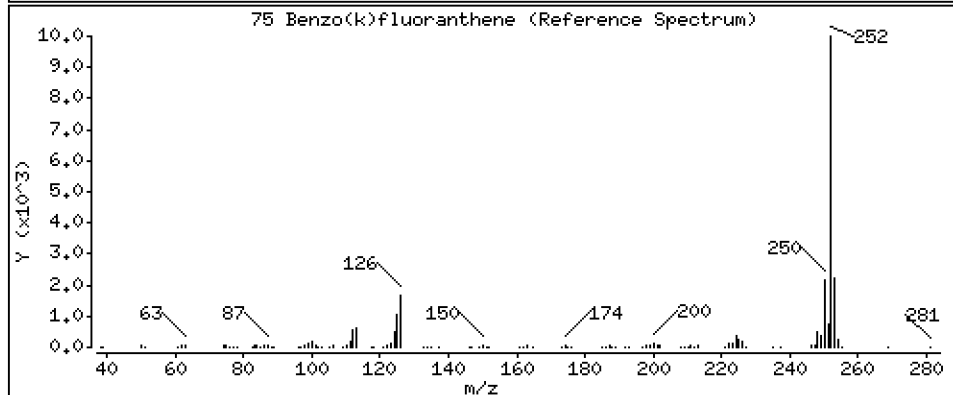
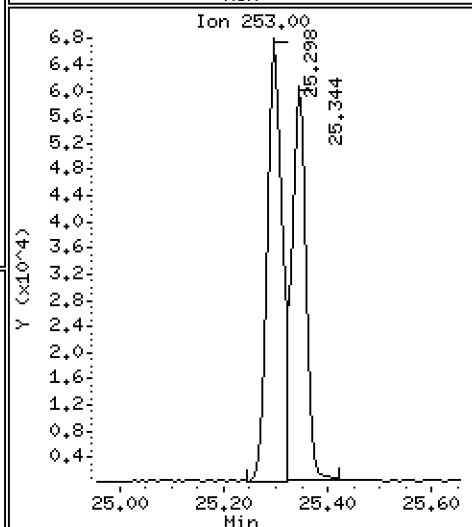
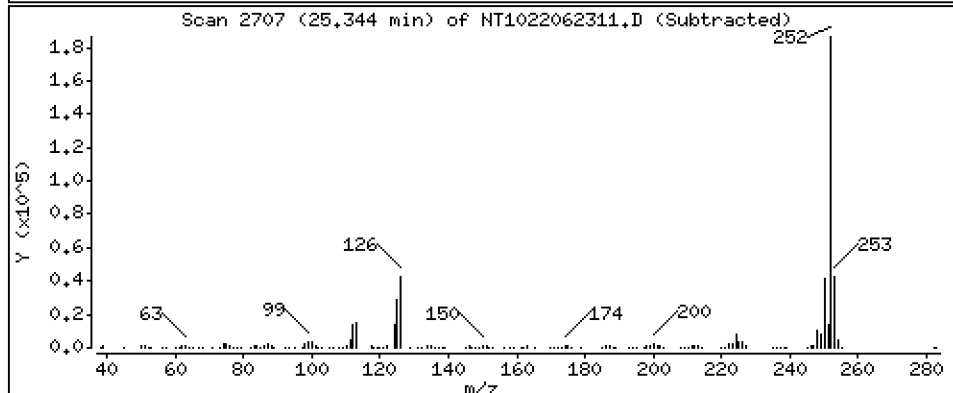
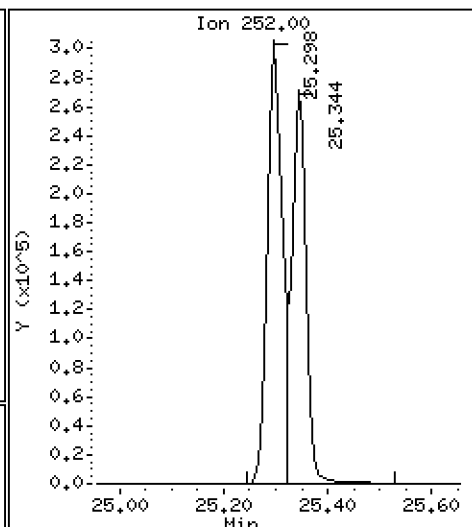
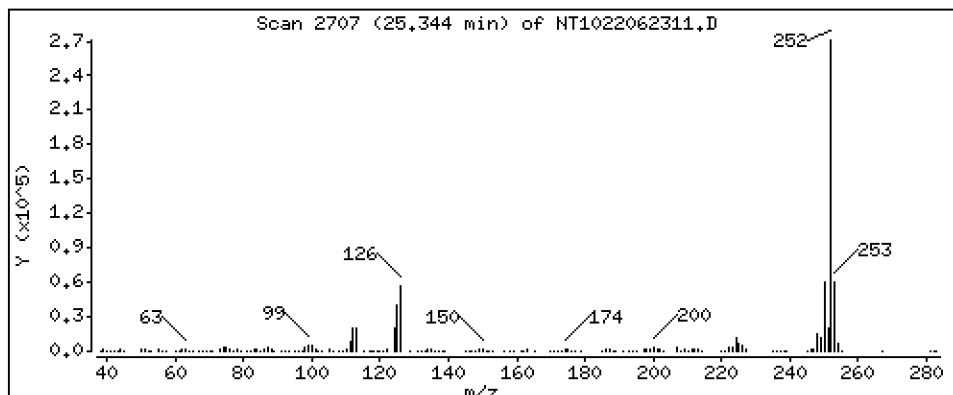
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 5,262 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

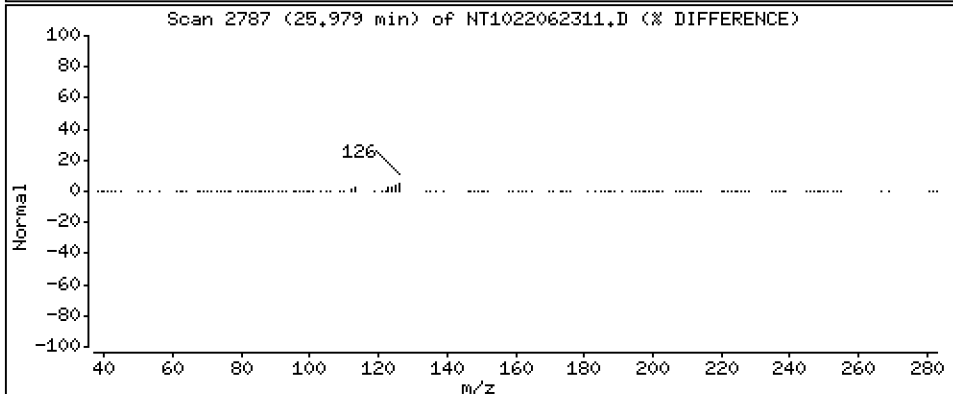
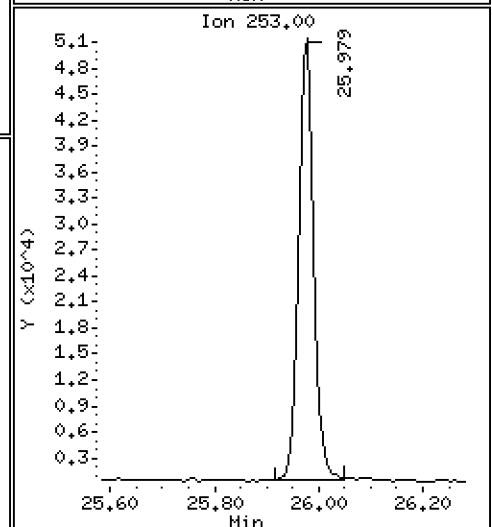
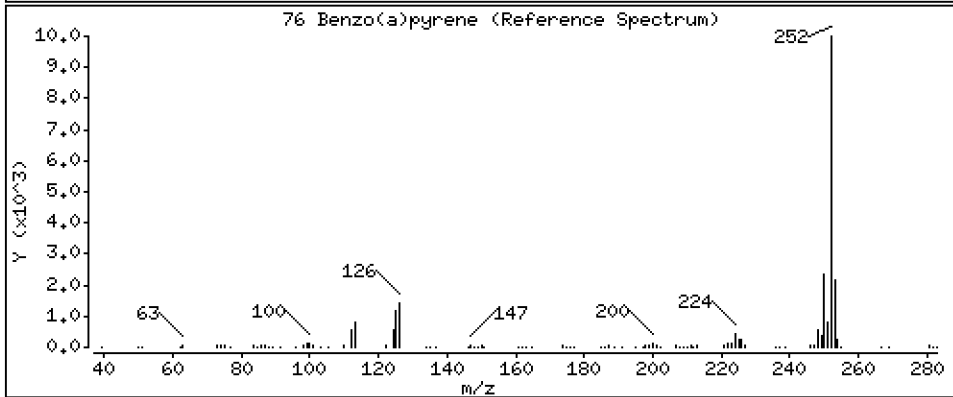
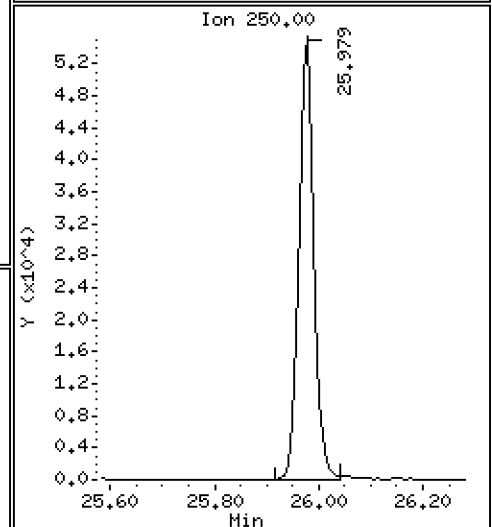
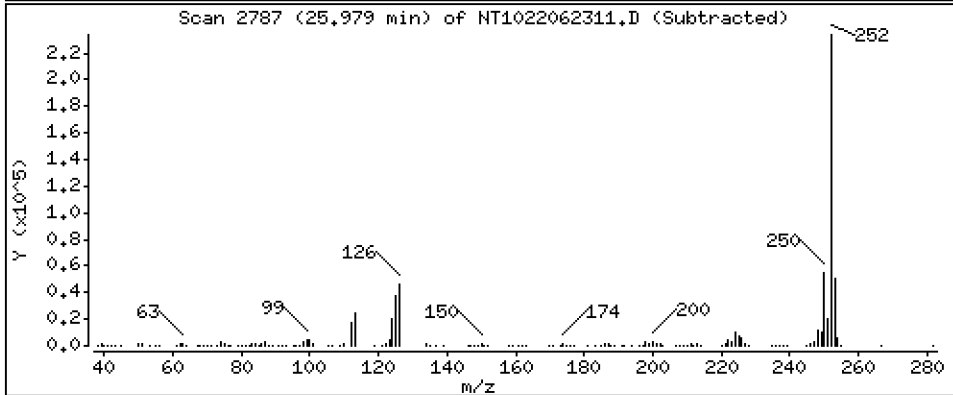
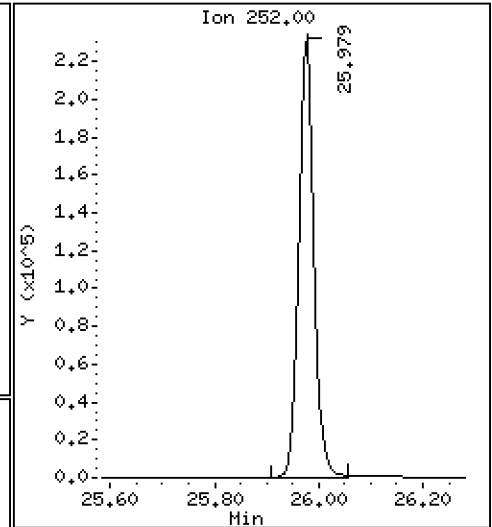
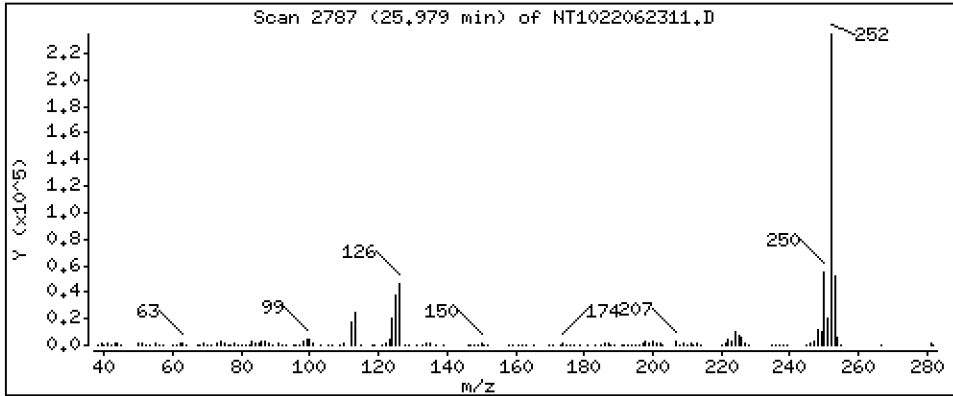
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,900 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

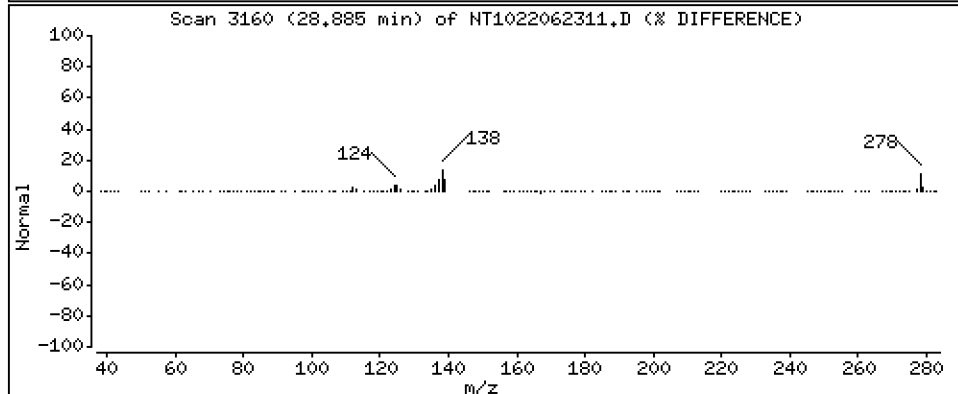
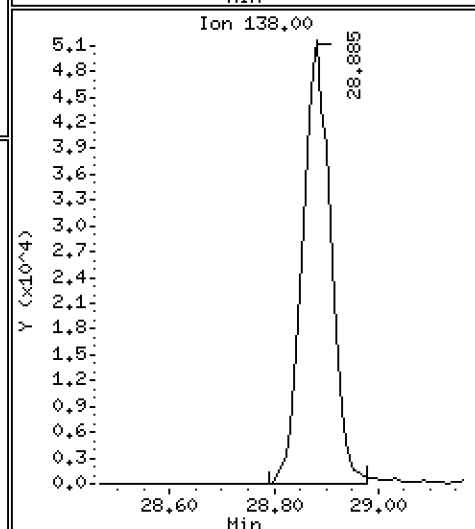
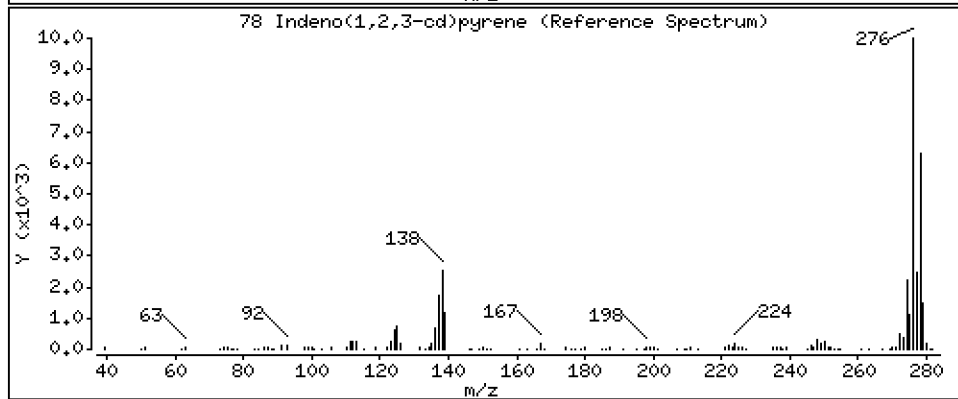
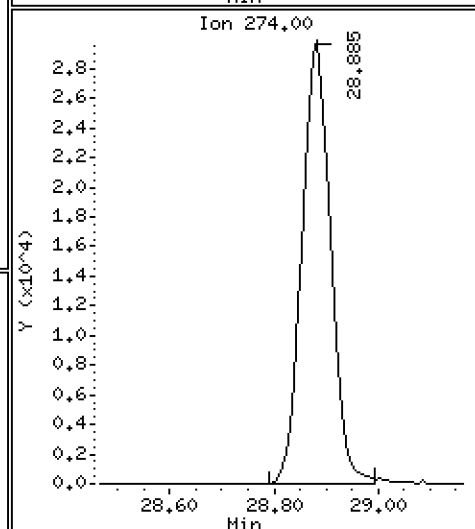
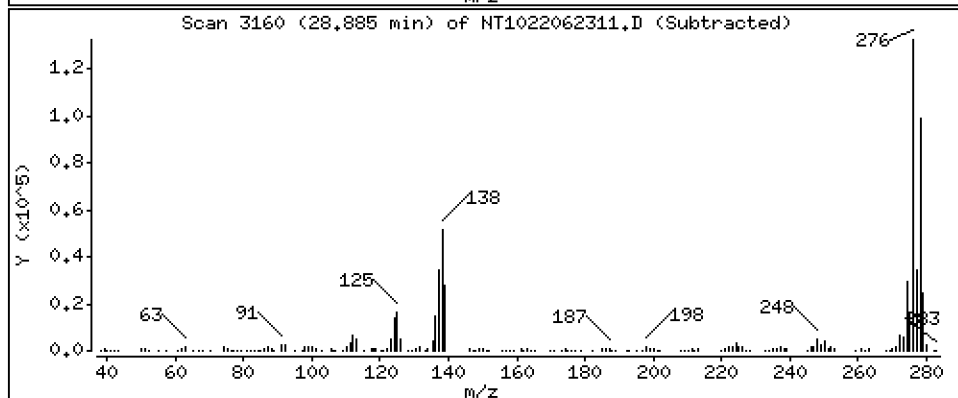
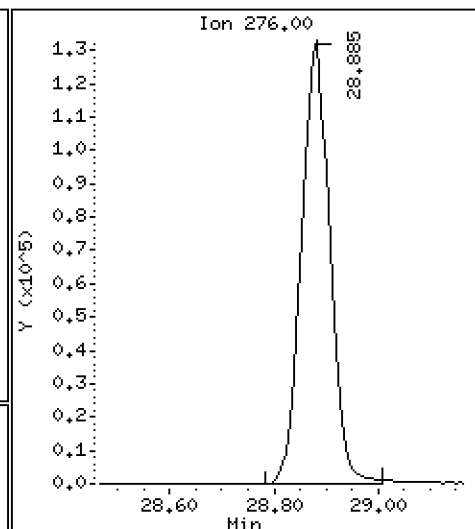
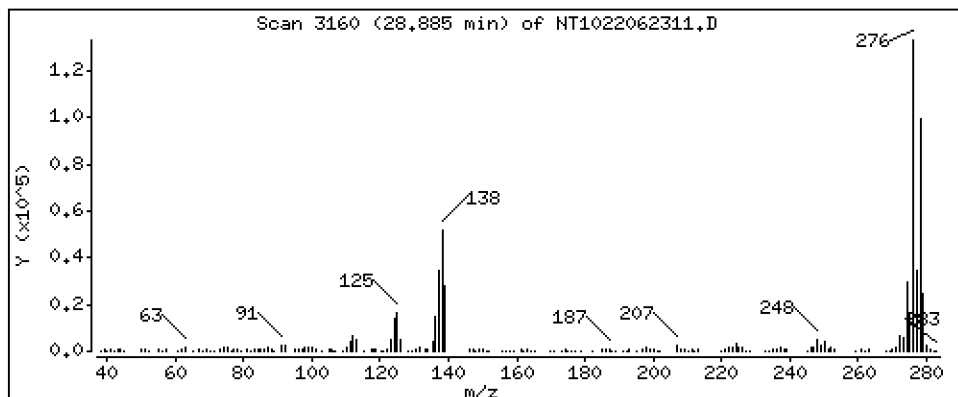
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,763 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

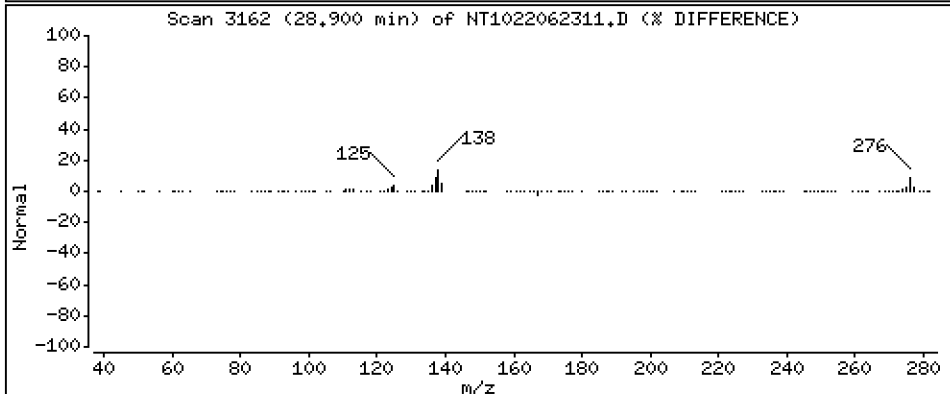
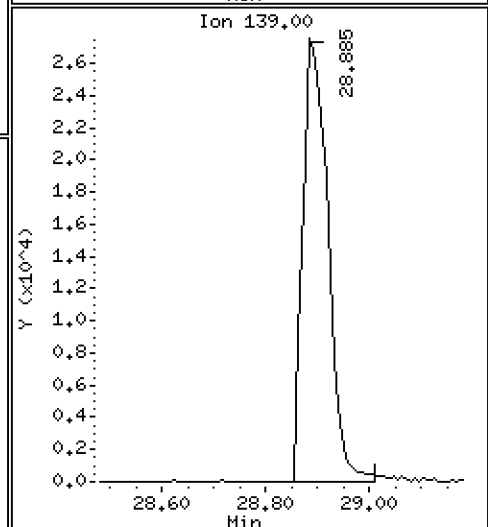
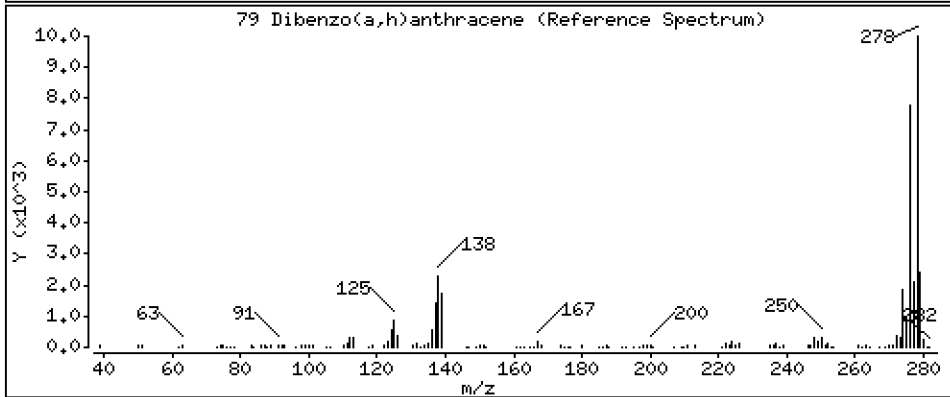
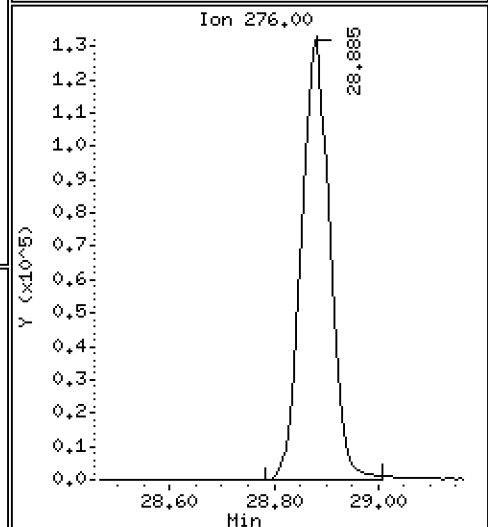
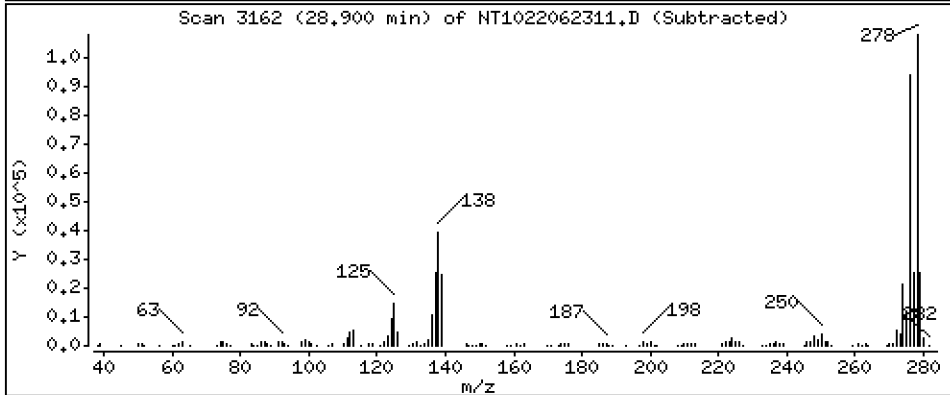
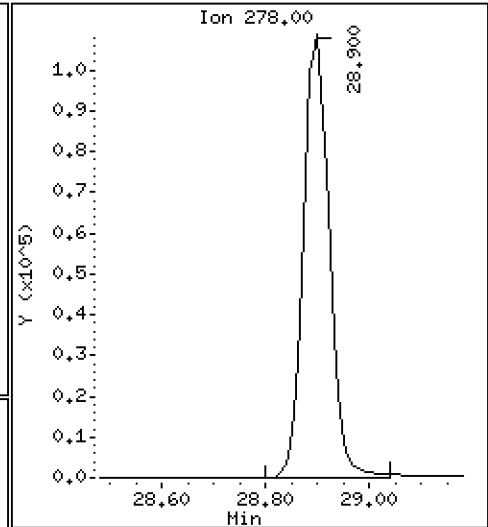
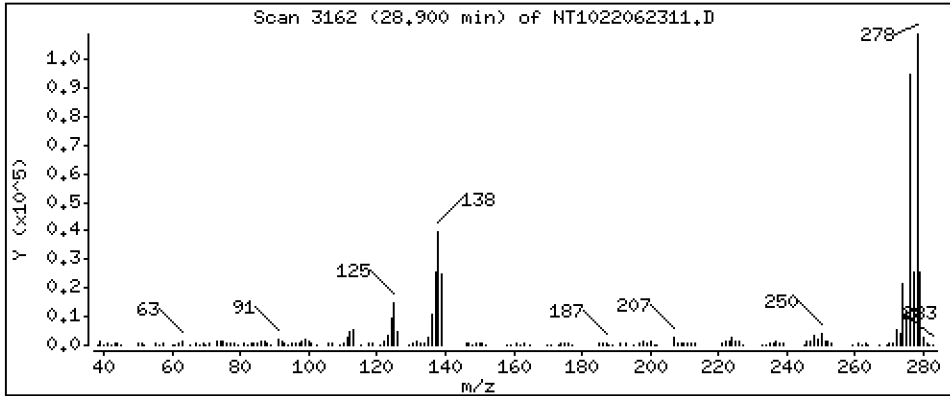
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,675 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

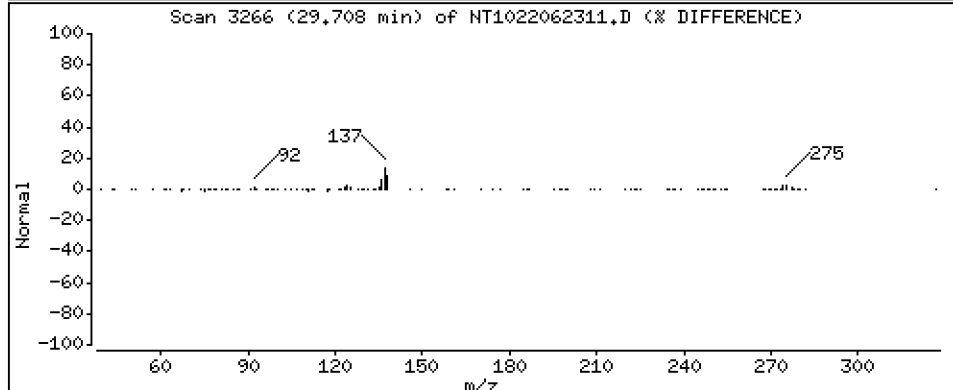
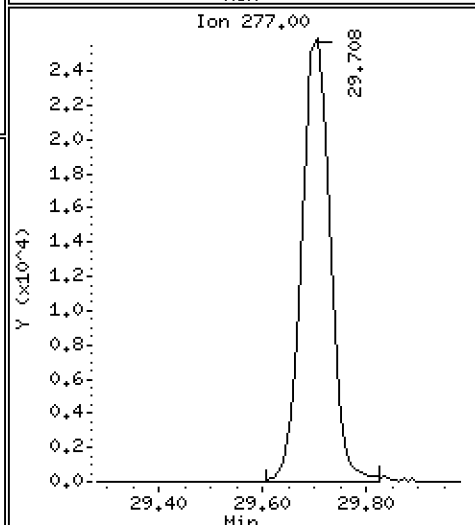
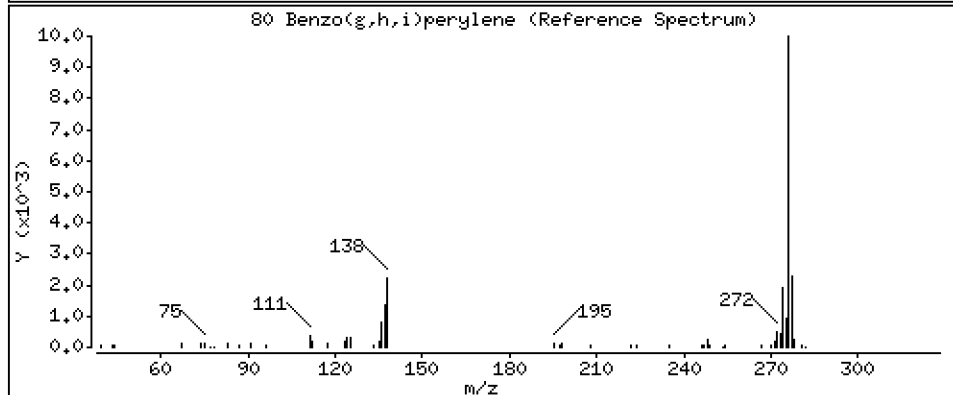
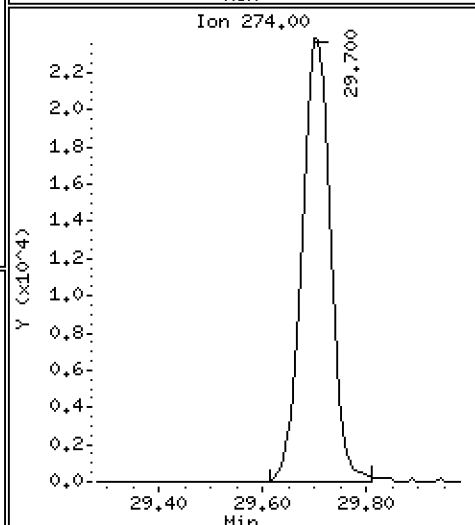
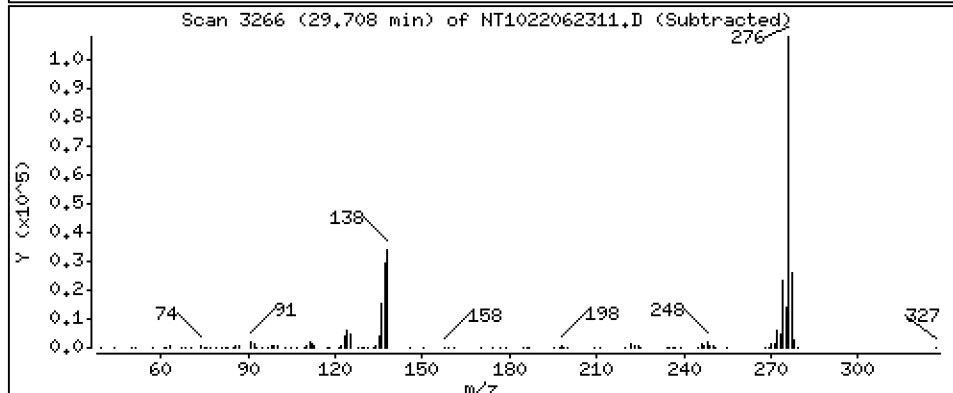
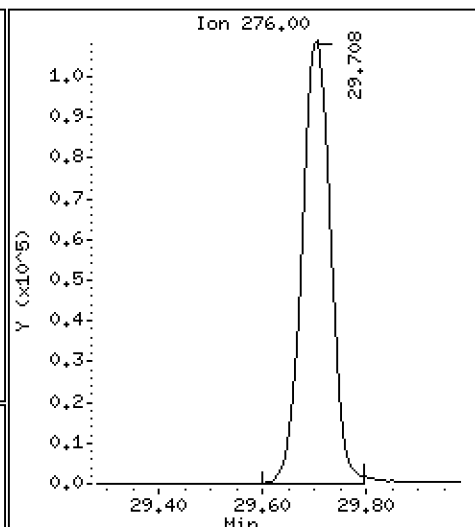
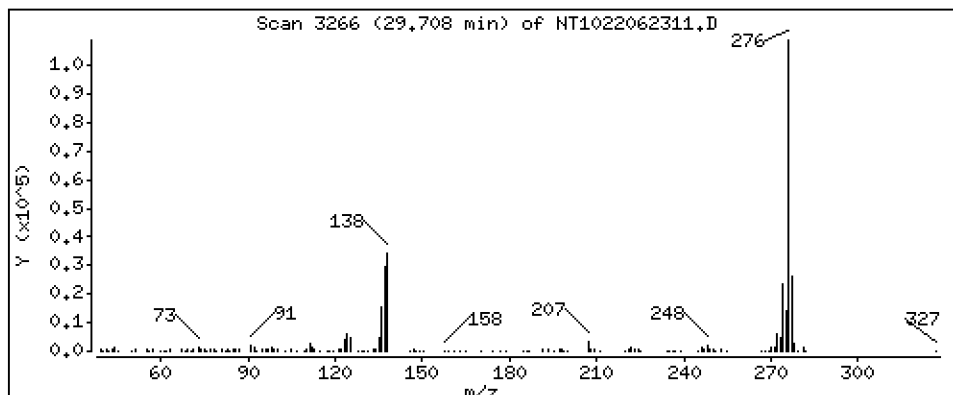
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,912 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

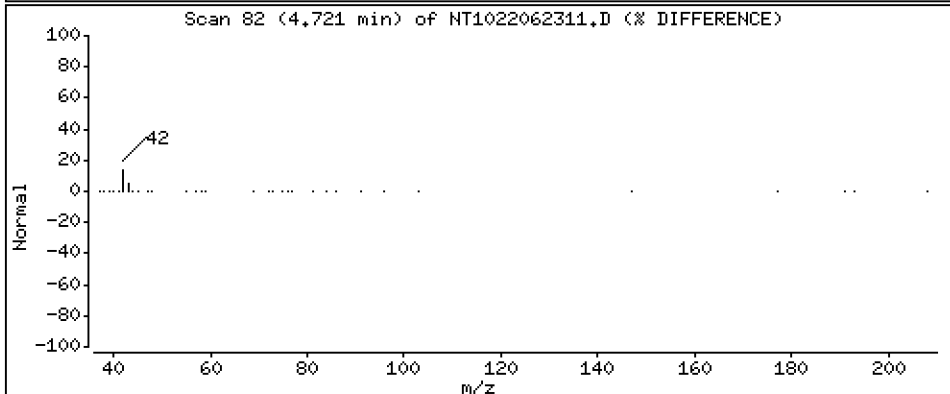
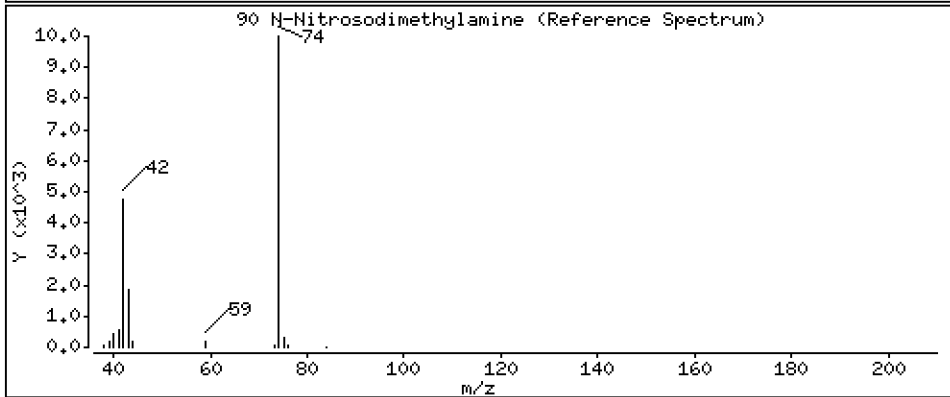
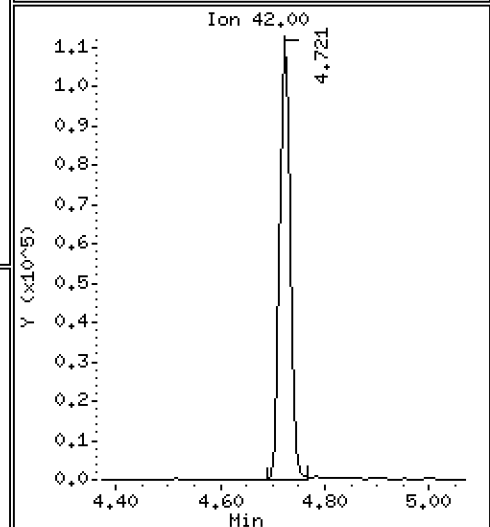
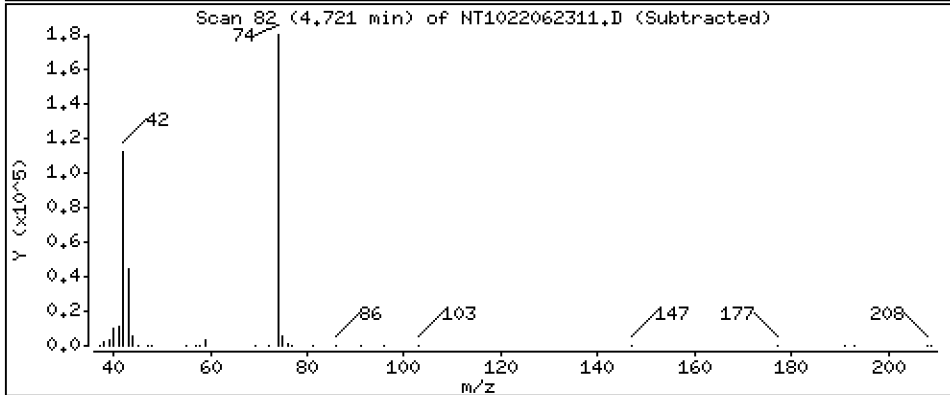
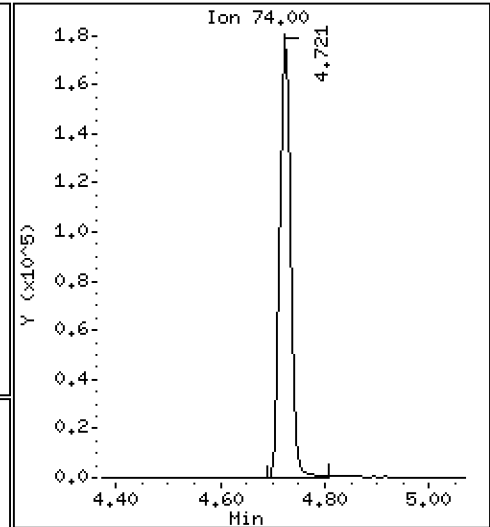
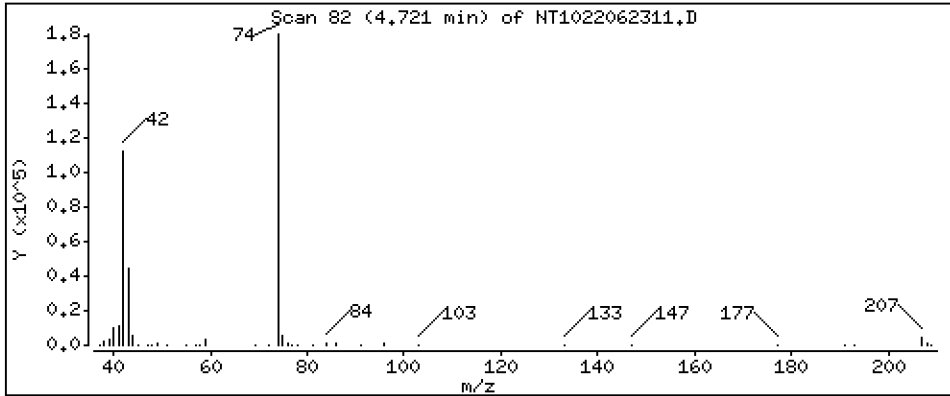
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 6,686 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

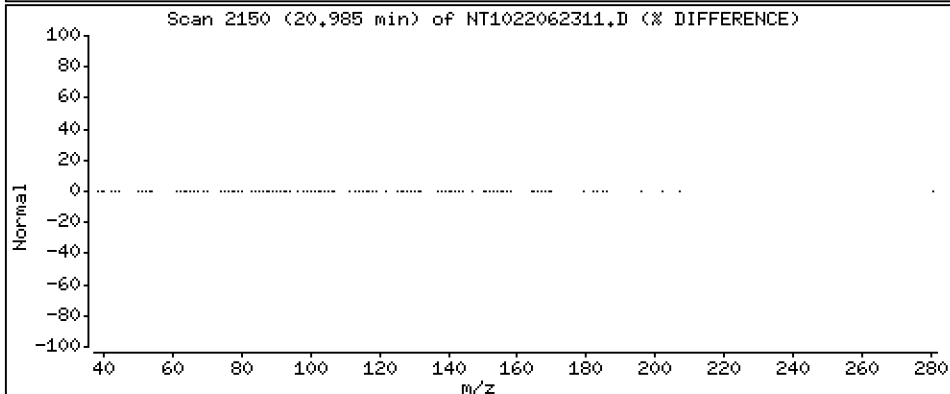
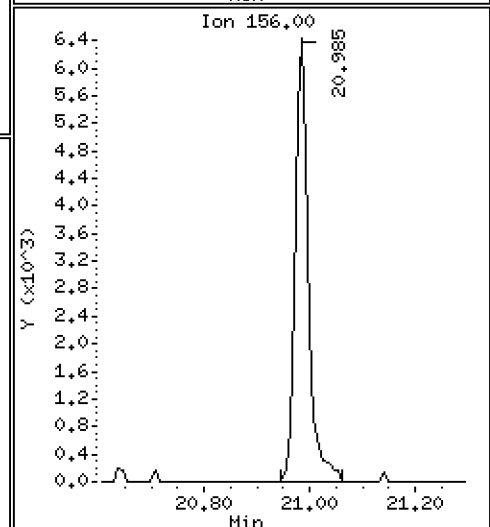
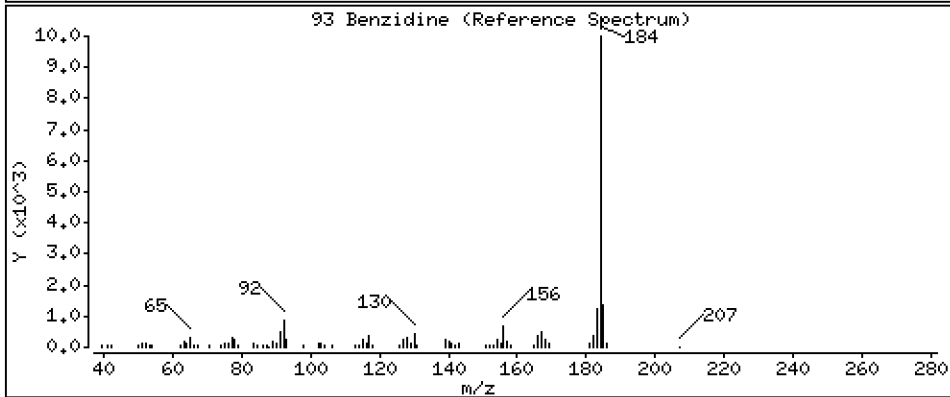
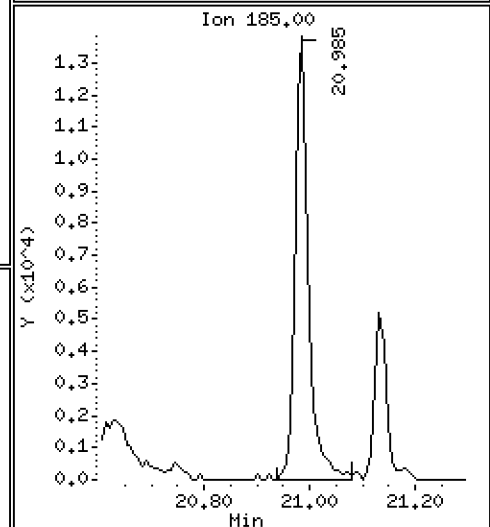
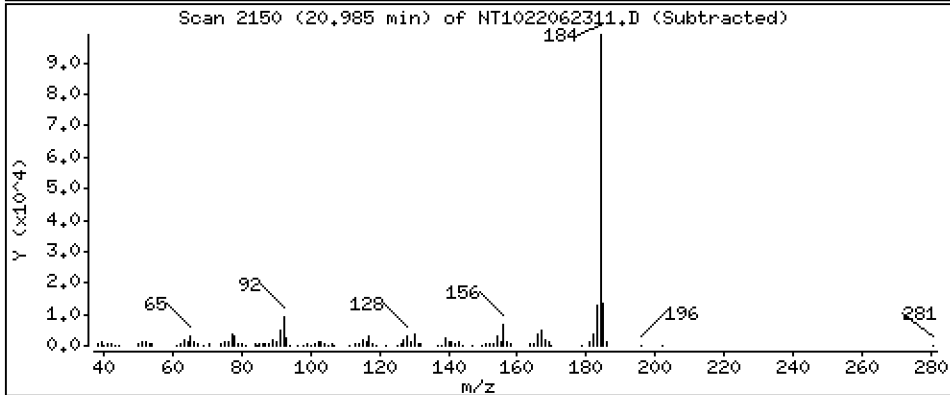
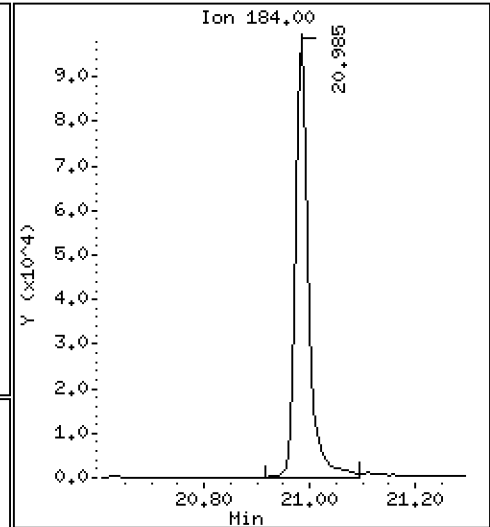
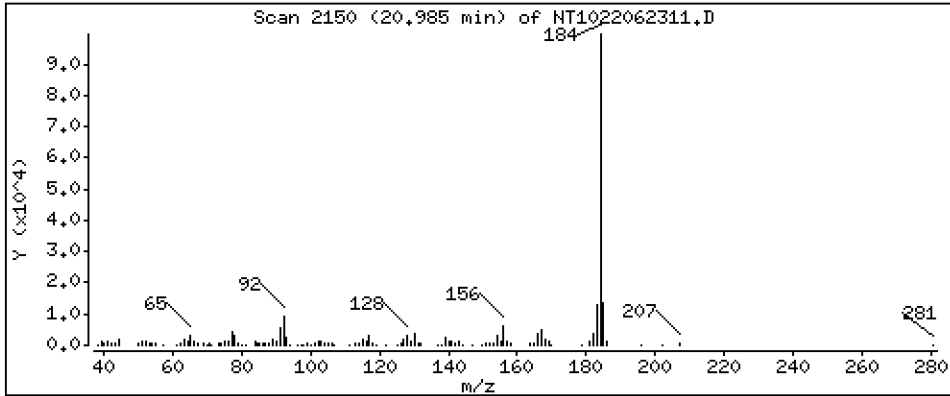
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 3,485 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

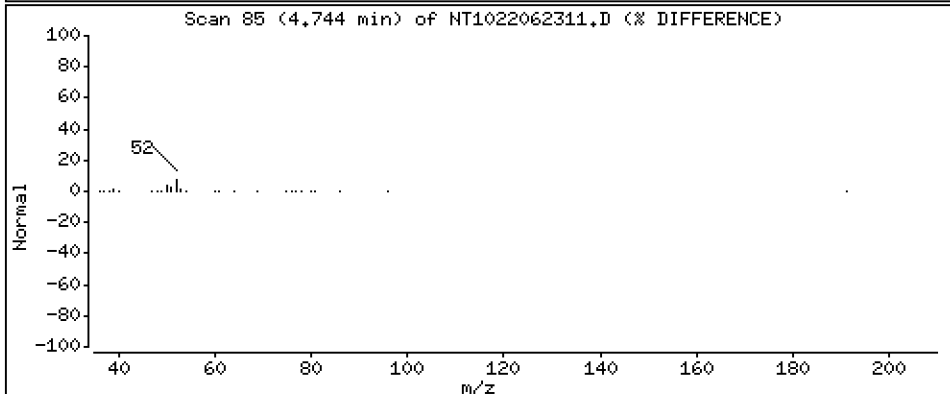
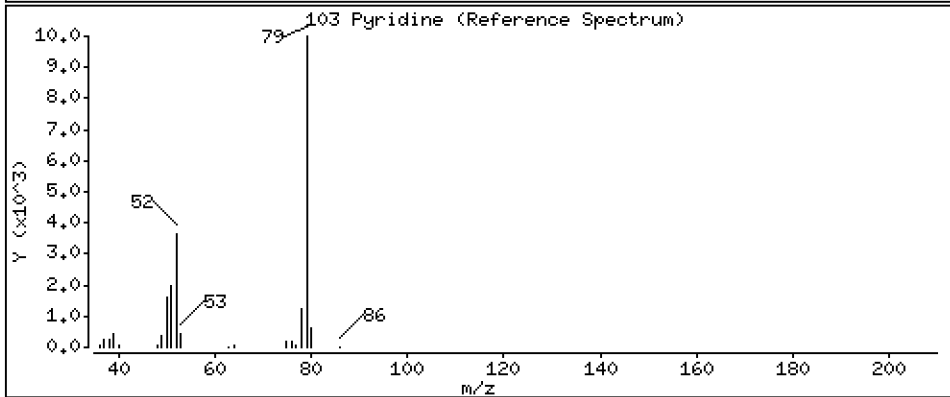
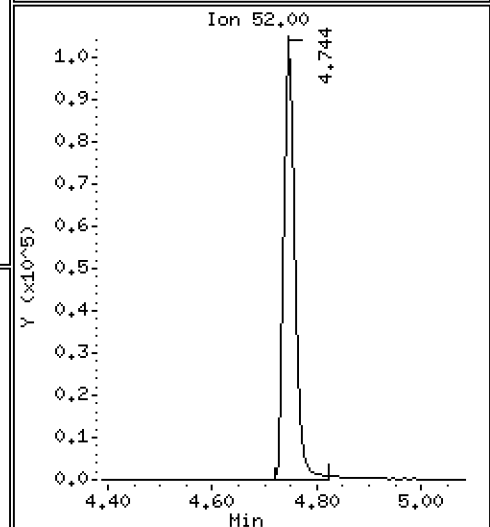
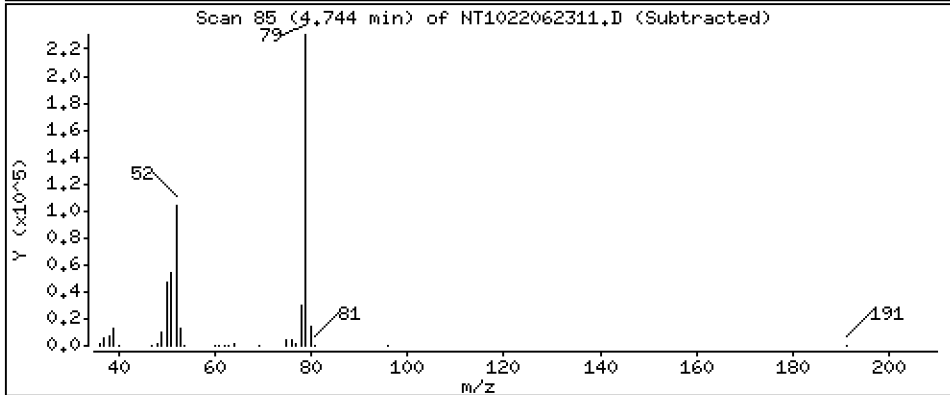
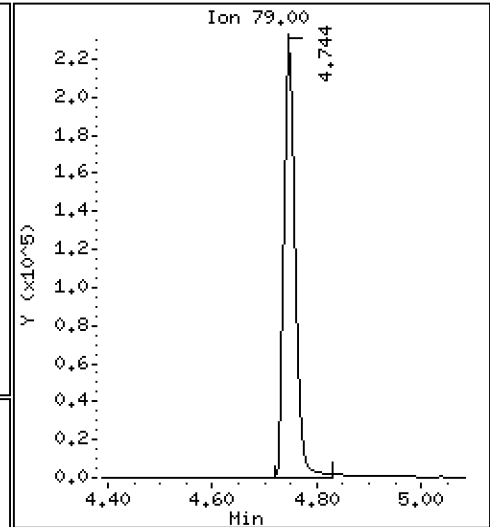
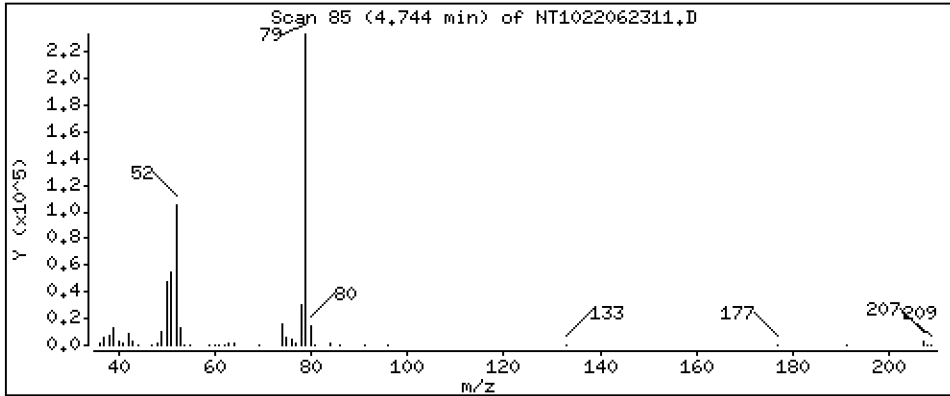
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 3,149 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

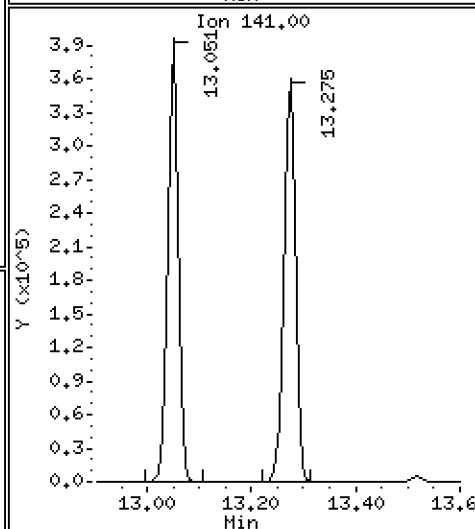
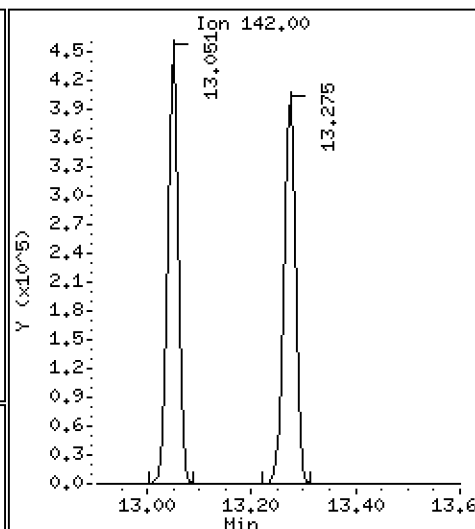
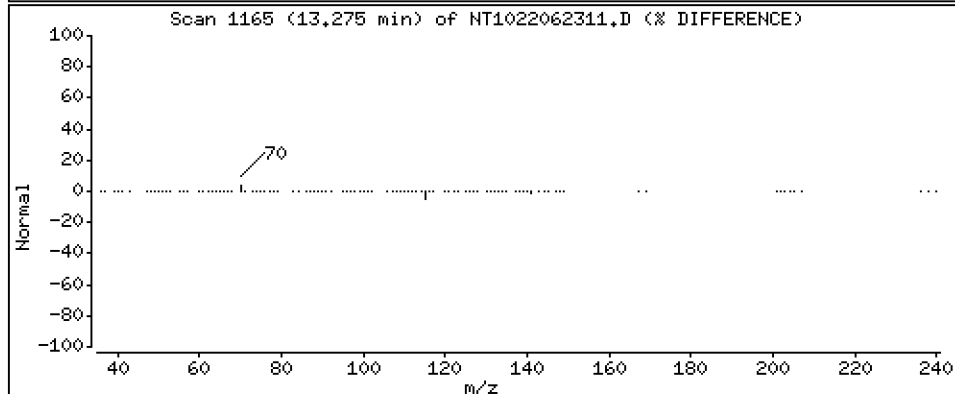
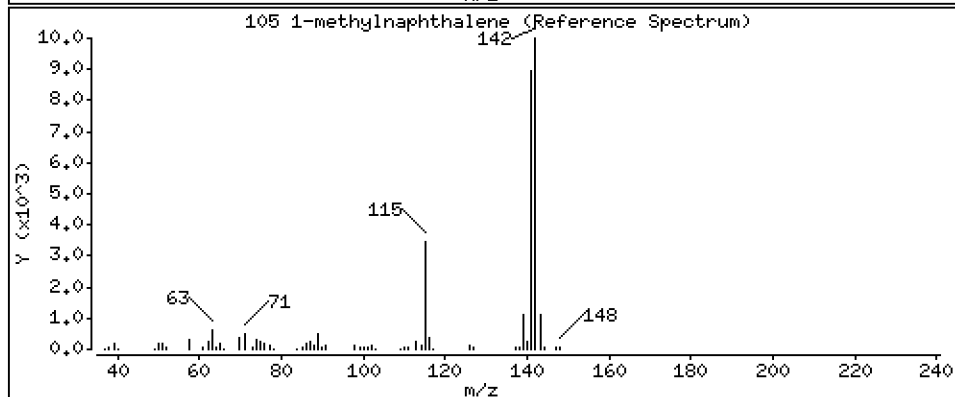
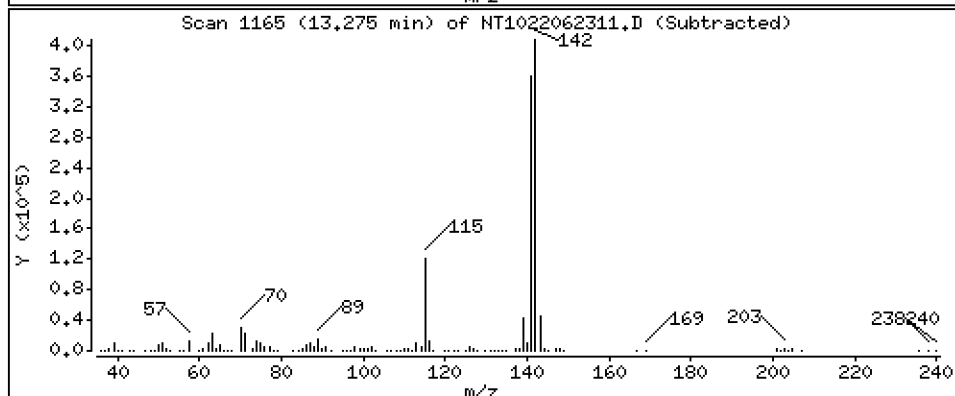
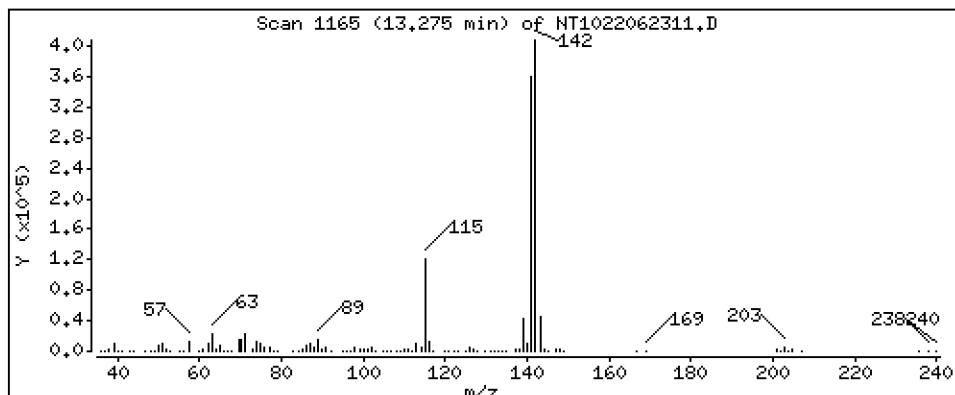
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,162 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

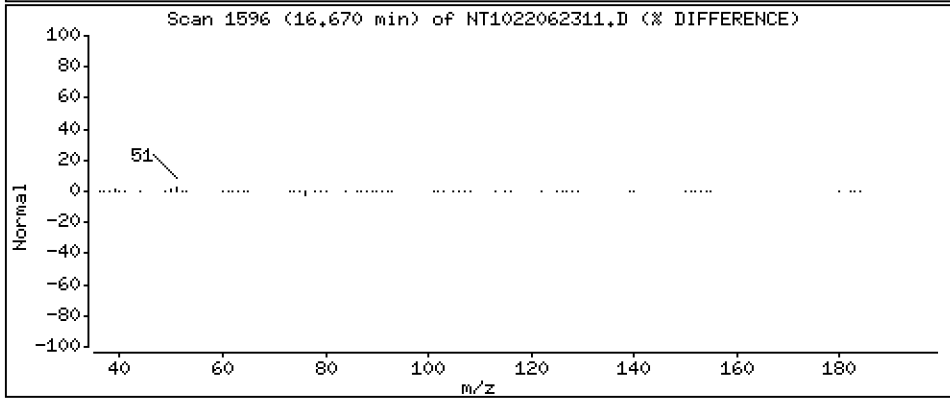
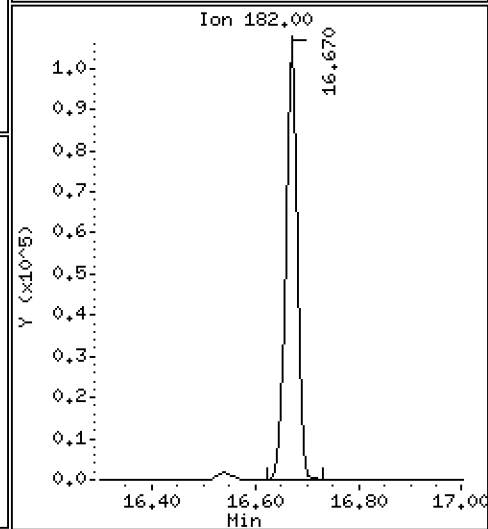
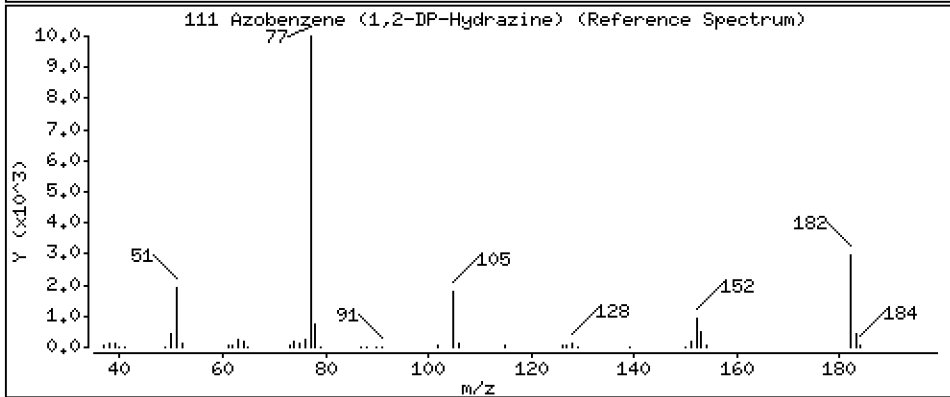
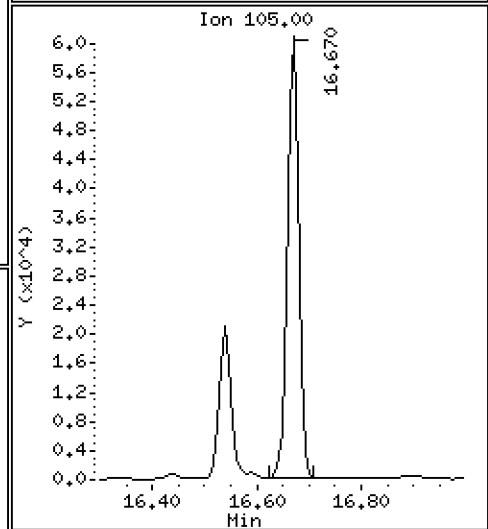
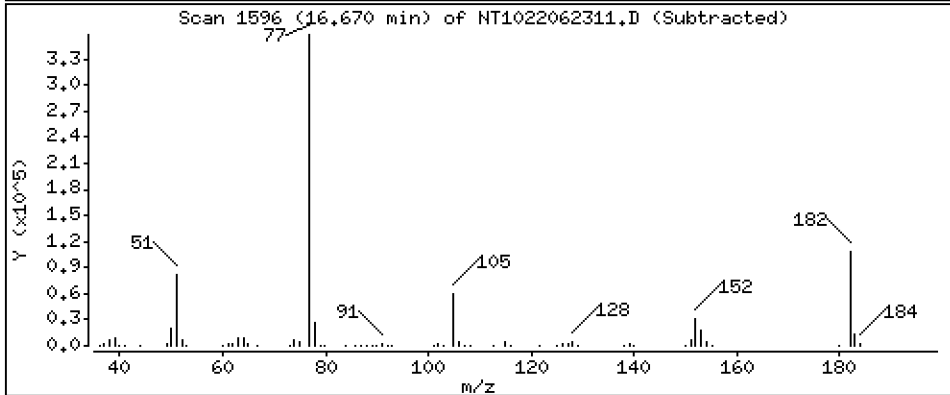
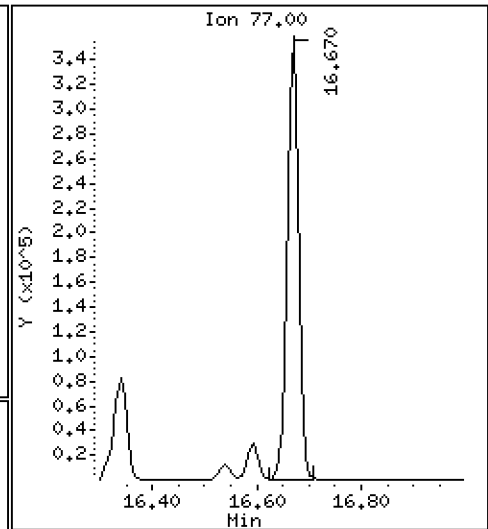
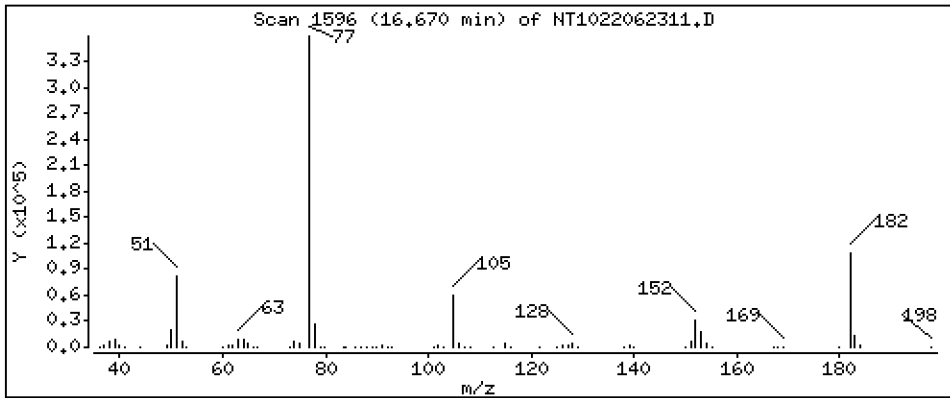
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,882 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

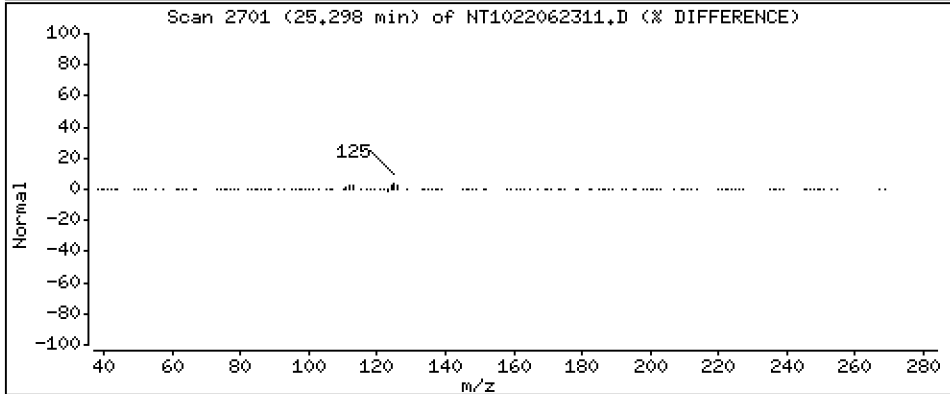
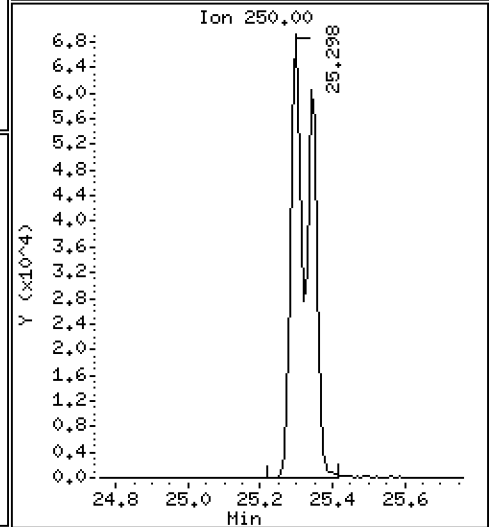
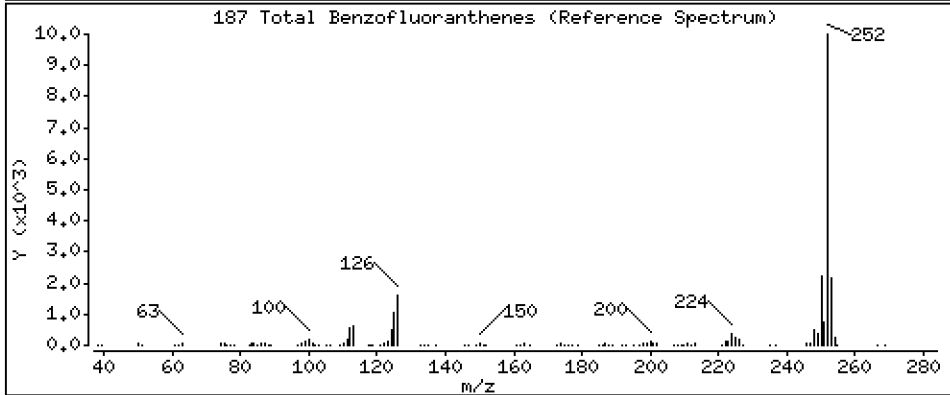
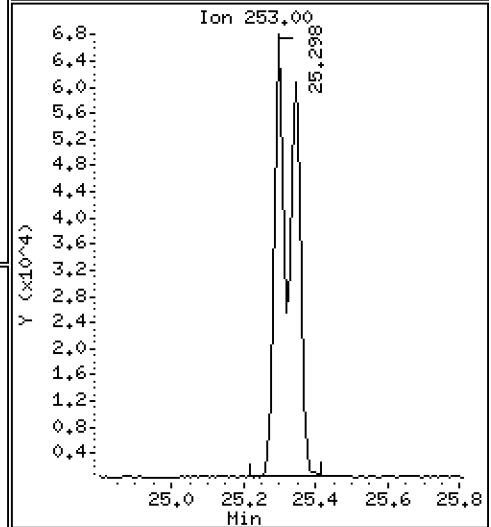
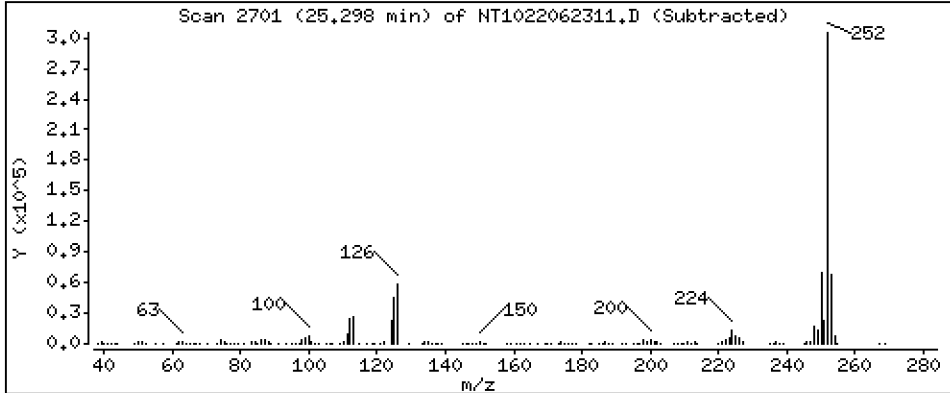
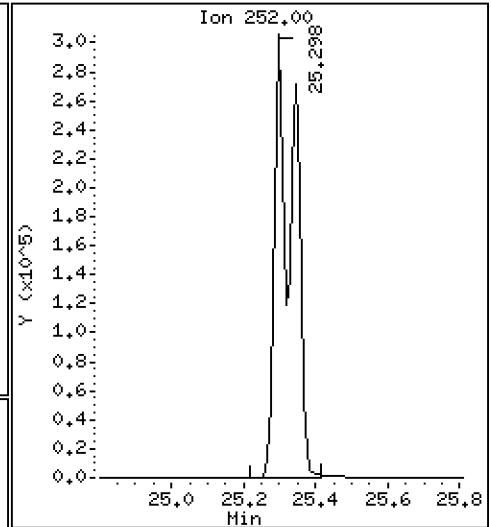
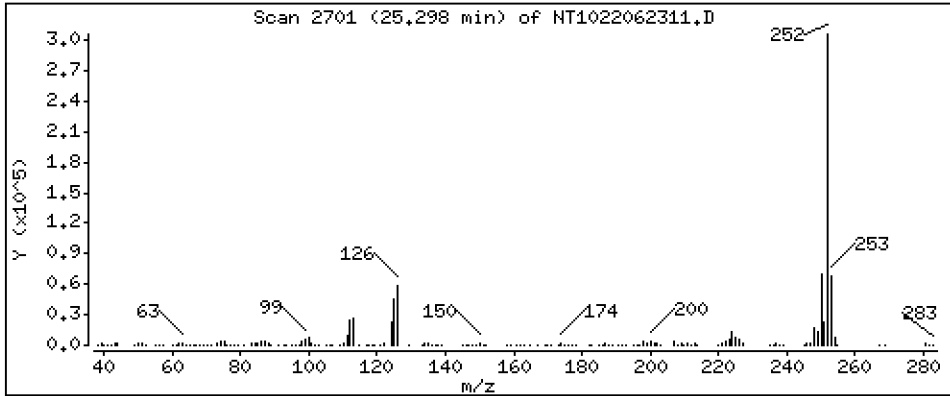
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,832 ug/mL



Date : 23-JUN-2022 15:20

Client ID:

Instrument: nt10.i

Sample Info: SKF0270-SCV1

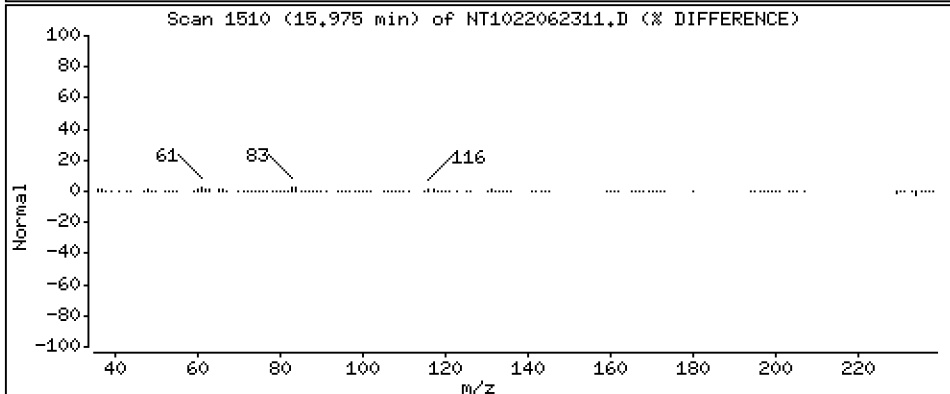
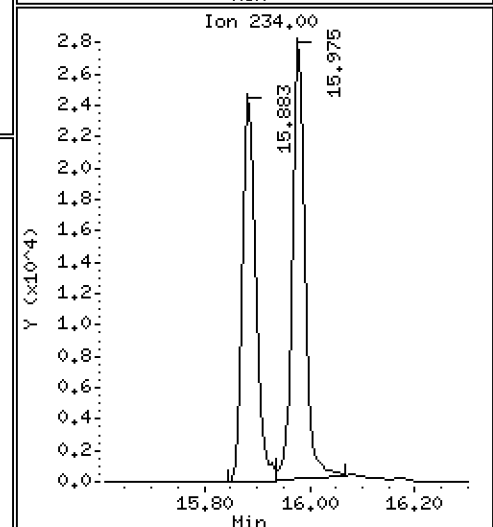
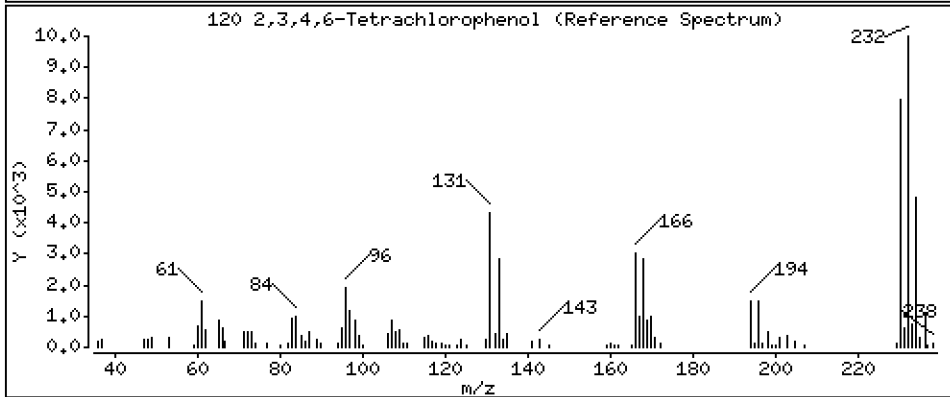
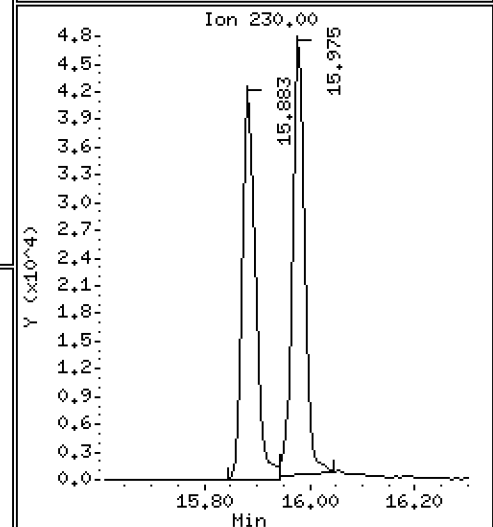
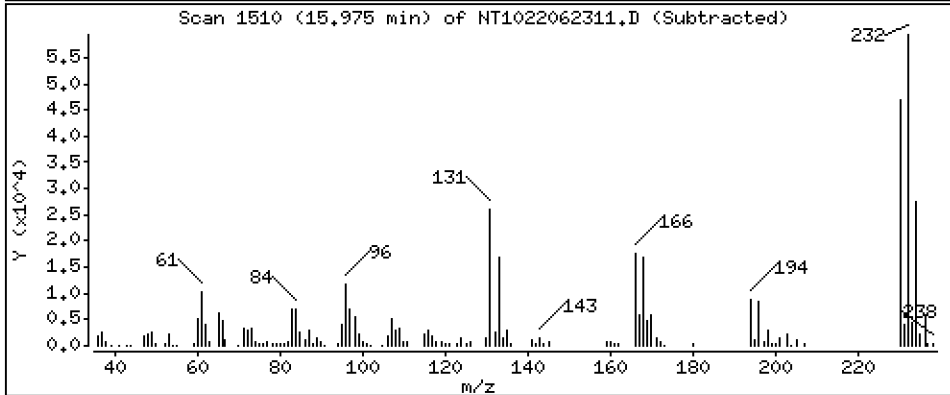
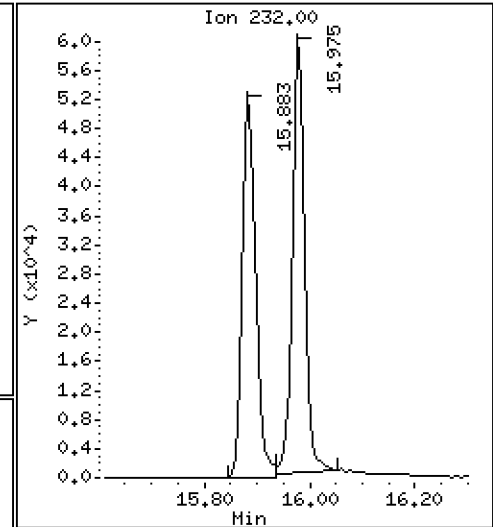
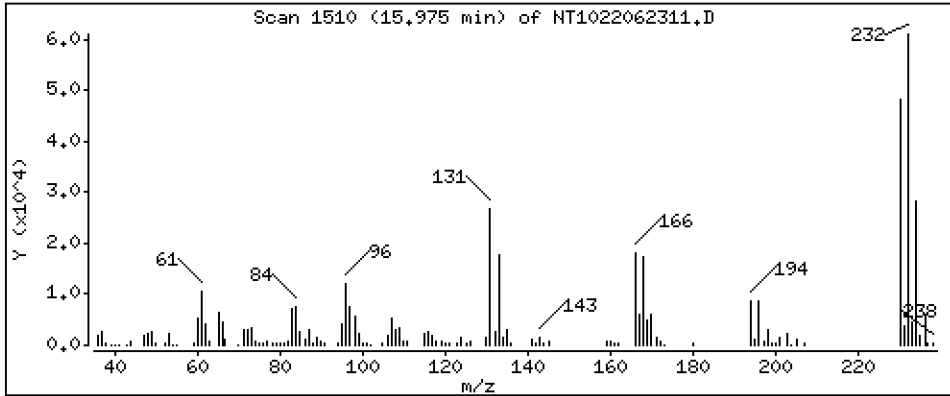
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,000 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220623.b\NT1022062311.D
 Lab Smp Id: SKF0270-SCV1
 Inj Date : 23-JUN-2022 15:20
 Operator : VTS
 Smp Info : SKF0270-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Meth Date : 24-Jun-2022 08:38 yev
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.898	6.891 (0.757)		447953	8.01867	8.019
\$ 2 Phenol-d5	99		8.482	8.475 (0.930)		653204	7.88040	7.880
3 Phenol	94		8.506	8.498 (0.933)		370864	5.13458	5.135
\$ 5 2-Chlorophenol-d4	132		8.753	8.745 (0.960)		431694	7.58399	7.584
4 Bis(2-Chloroethyl)ether	93		8.660	8.645 (0.950)		301080	5.79201	5.792
6 2-Chlorophenol	128		8.784	8.776 (0.963)		299371	5.19893	5.199
7 1,3-Dichlorobenzene	146		9.055	9.039 (0.993)		312260	5.01369	5.014
* 8 1,4-Dichlorobenzene-d4	152		9.117	9.101 (1.000)		152987	4.00000	
9 1,4-Dichlorobenzene	146		9.148	9.132 (1.003)		260034	5.29668	5.297
\$ 10 1,2-Dichlorobenzene-d4	152		9.474	9.466 (1.039)		174442	4.97336	4.973
12 1,2-Dichlorobenzene	146		9.505	9.489 (1.043)		265143	5.08744	5.087
11 Benzyl alcohol	108		9.380	9.373 (1.029)		157701	5.48088	5.481
14 2,2'-oxybis(1-Chloropropane)	121		9.683	9.676 (1.062)		87054	7.06310	7.063
13 2-Methylphenol	108		9.613	9.606 (1.054)		197804	4.44171	4.442
17 Hexachloroethane	117		10.095	10.079 (1.107)		115905	5.29620	5.296
16 N-Nitroso-di-n-propylamine	70		9.939	9.924 (1.090)		158444	5.11579	5.116
15 4-Methylphenol	108		9.893	9.877 (1.085)		218560	4.59234	4.592
\$ 18 Nitrobenzene-d5	82		10.203	10.196 (0.879)		266032	4.94671	4.947
19 Nitrobenzene	77		10.242	10.227 (0.883)		278529	5.13849	5.138
20 Isophorone	82		10.684	10.677 (0.921)		581184	7.41183	7.412
21 2-Nitrophenol	139		10.876	10.859 (0.937)		175569	5.12801	5.128
22 2,4-Dimethylphenol	107		10.936	10.919 (0.942)		196968	4.73580	4.736
23 Bis(2-Chloroethoxy)methane	93		11.123	11.106 (0.959)		270186	5.73516	5.735
24 Benzoic acid	105		11.106	11.140 (0.957)		143508	6.62128	6.621
25 2,4-Dichlorophenol	162		11.335	11.326 (0.977)		234378	5.54474	5.545
26 1,2,4-Trichlorobenzene	180		11.519	11.504 (0.993)		221798	4.88841	4.888
* 27 Naphthalene-d8	136		11.604	11.589 (1.000)		505418	4.00000	
28 Naphthalene	128		11.643	11.635 (1.003)		639883	4.94683	4.947
29 4-Chloroaniline	127		11.774	11.758 (1.015)		265378	4.64633	4.646
30 Hexachlorobutadiene	225		12.006	11.990 (1.035)		115567	5.33913	5.339
31 4-Chloro-3-methylphenol	107		12.756	12.741 (1.099)		244559	4.85270	4.853
32 2-Methylnaphthalene	142		13.050	13.035 (1.125)		670266	5.21373	5.214
33 Hexachlorocyclopentadiene	237		13.515	13.499 (0.887)		55412	3.32629	3.326

Compounds	QUANT SIG					CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
34 2,4,6-Trichlorophenol	196	13.677	13.662	(0.898)	170978	5.24236	5.242	
35 2,4,5-Trichlorophenol	196	13.755	13.739	(0.903)	172769	4.42727	4.427	
§ 36 2-Fluorobiphenyl	172	13.832	13.817	(0.908)	683222	5.26116	5.261	
37 2-Chloronaphthalene	162	14.049	14.033	(0.922)	625328	5.46235	5.462	
38 2-Nitroaniline	65	14.304	14.289	(0.939)	163591	5.34222	5.342	
39 Dimethylphthalate	163	14.738	14.714	(0.967)	500509	4.97347	4.973	
40 Acenaphthylene	152	14.923	14.908	(0.980)	750906	4.47637	4.476	
41 2,6-Dinitrotoluene	165	14.877	14.862	(0.977)	122846	5.25597	5.256	
* 42 Acenaphthene-d10	164	15.233	15.217	(1.000)	286969	4.00000		
43 3-Nitroaniline	138	15.163	15.148	(0.995)	147993	5.37872	5.379	
44 Acenaphthene	153	15.302	15.287	(1.005)	412233	4.93939	4.939	
45 2,4-Dinitrophenol	184	15.380	15.364	(1.010)	21043	2.02332	2.023	
46 Dibenzofuran	168	15.635	15.619	(1.026)	708335	5.34049	5.340	
47 4-Nitrophenol	109	15.511	15.488	(1.018)	40185	4.43466	4.435	
48 2,4-Dinitrotoluene	165	15.689	15.673	(1.030)	165818	5.30810	5.308	
50 Diethylphthalate	149	16.199	16.184	(1.063)	463792	5.37240	5.372	
49 Fluorene	166	16.354	16.331	(1.074)	728048	4.59382	4.594	
51 4-Chlorophenyl-phenylether	204	16.338	16.323	(1.073)	376282	5.40653	5.407	
52 4-Nitroaniline	138	16.439	16.423	(1.079)	140376	5.09381	5.094	
53 4,6-Dinitro-2-methylphenol	198	16.539	16.523	(0.904)	85433	4.31421	4.314	
54 N-Nitrosodiphenylamine	169	16.593	16.570	(0.907)	395951	4.98277	4.983	
§ 55 2,4,6-Tribromophenol	330	16.894	16.870	(1.109)	90754	6.94559	6.946	
56 4-Bromophenyl-phenylether	248	17.348	17.333	(0.948)	200887	5.45634	5.456	
57 Hexachlorobenzene	284	17.673	17.650	(0.966)	171847	5.11363	5.114	
58 Pentachlorophenol	266	18.037	18.014	(0.986)	24841	3.23849	3.238	
* 59 Phenanthrene-d10	188	18.300	18.277	(1.000)	505363	4.00000		
60 Phenanthrene	178	18.347	18.323	(1.003)	649666	4.89322	4.893	
61 Anthracene	178	18.439	18.416	(1.008)	683072	4.82784	4.828	
62 Carbazole	167	18.772	18.749	(1.026)	726709	5.56744	5.567	
63 Di-n-butylphthalate	149	19.584	19.554	(1.070)	1082696	5.32836	5.328	
64 Fluoranthene	202	20.753	20.722	(0.887)	1048305	4.19233	4.192	
65 Pyrene	202	21.178	21.147	(0.905)	1006992	4.57159	4.572	
§ 66 Terphenyl-d14	244	21.465	21.441	(0.918)	561068	4.66854	4.669	
67 Butylbenzylphthalate	149	22.401	22.371	(0.958)	338140	4.86029	4.860	
68 Benzo(a)anthracene	228	23.362	23.331	(0.999)	707995	4.85155	4.852	
* 69 Chrysene-d12	240	23.393	23.354	(1.000)	344386	4.00000		
70 3,3'-Dichlorobenzidine	252	23.315	23.284	(0.997)	559597	11.7678	11.77	
71 Chrysene	228	23.439	23.400	(1.002)	479984	4.72467	4.725	
72 bis(2-Ethylhexyl)phthalate	149	23.447	23.416	(0.959)	366071	5.06090	5.061	
* 134 Di-n-octylphthalate-d4	153	24.453	24.422	(1.000)	654412	4.00000		
73 Di-n-octylphthalate	149	24.469	24.430	(1.001)	818367	5.50195	5.502	
74 Benzo(b)fluoranthene	252	25.297	25.258	(0.969)	600074	4.95534	4.955	
75 Benzo(k)fluoranthene	252	25.344	25.305	(0.971)	612767	5.26231	5.262	
76 Benzo(a)pyrene	252	25.979	25.932	(0.996)	485665	4.90022	4.900	
* 77 Perylene-d12	264	26.095	26.048	(1.000)	267390	4.00000		
78 Indeno(1,2,3-cd)pyrene	276	28.884	28.814	(1.107)	503980	4.76253	4.763	
79 Dibenzo(a,h)anthracene	278	28.900	28.830	(1.107)	378728	4.67505	4.675	
80 Benzo(g,h,i)perylene	276	29.707	29.630	(1.138)	415473	4.91157	4.912	
90 N-Nitrosodimethylamine	74	4.720	4.720	(0.518)	244386	6.68622	6.686	
91 Aniline	93	Compound Not Detected.						
93 Benzidine	184	20.985	20.954	(0.897)	177079	3.48536	3.485	
103 Pyridine	79	4.743	4.736	(0.520)	326265	3.14892	3.149	
105 1-methylnaphthalene	142	13.275	13.252	(1.144)	651979	5.16205	5.162	
111 Azobenzene (1,2-DP-Hydrazine)	77	16.670	16.647	(1.094)	559493	4.88168	4.882	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.297	25.305	(0.969)	1110070	9.83152	9.832
120 2,3,4,6-Tetrachlorophenol	232	15.975	15.959	(1.049)	100330	3.99993	4.000

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-JUN-2022
 Lab File ID: NT1022062311.D Calibration Time: 16:38
 Lab Smp Id: SKF0270-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220623.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	149714	74857	299428	152987	2.19
27 Naphthalene-d8	491315	245658	982630	505418	2.87
42 Acenaphthene-d10	286589	143295	573178	286969	0.13
59 Phenanthrene-d10	498820	249410	997640	505363	1.31
69 Chrysene-d12	311295	155648	622590	344386	10.63
134 Di-n-octylphthala	577982	288991	1155964	654412	13.22
77 Perylene-d12	218550	109275	437100	267390	22.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.12	0.17
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.13
42 Acenaphthene-d10	15.22	14.72	15.72	15.23	0.10
59 Phenanthrene-d10	18.28	17.78	18.78	18.30	0.13
69 Chrysene-d12	23.35	22.85	23.85	23.39	0.17
134 Di-n-octylphthala	24.42	23.92	24.92	24.45	0.13
77 Perylene-d12	26.05	25.55	26.55	26.10	0.18

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

REVIEW SUMMARY FOR FILE - NT1022062311.D

Lab ID: SKF0270-SCV1
nt10.i, ABN.m, 23-JUN-2022 15:20

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022062313.D

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

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



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071422.D

Calibration Date: 06/23/2022

Sequence: SKG0139

Injection Date: 07/15/22

Lab Sample ID: SKG0139-CCV1

Injection Time: 03:18

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Naphthalene	A	5.0000	5.5	1.0237250	1.1228590		9.7	+/-50
2-Methylnaphthalene	A	5.0000	5.9	1.0174370	1.1924190		17.2	+/-50
Acenaphthene	A	5.0000	5.5	1.1633080	1.2896710		10.9	+/-50
Pentachlorophenol	A	10.000	5.8	0.0462824	0.0358748		-41.6	+/-50
Phenanthrene	A	5.0000	5.4	1.0508770	1.1434520		8.8	+/-50
Fluoranthene	A	5.0000	3.6	2.5859780	2.0755410		-28.2	+/-50
Benzo(a)anthracene	A	5.0000	4.8	1.6949770	1.6339790		-3.6	+/-50
Chrysene	A	5.0000	6.1	1.1695310	1.4699220		22.4	+/-50
Benzo(b)fluoranthene	A	5.0000	4.8	1.8115340	1.7214960		-5.0	+/-50
Benzo(k)fluoranthene	A	5.0000	5.4	1.7419410	1.8644380		7.0	+/-50
Benzo(a)pyrene	A	5.0000	4.9	1.4826420	1.4675230		-1.0	+/-50
Indeno(1,2,3-cd)pyrene	A	5.0000	2.8	1.5830350	0.8814133		-44.3	+/-50
Dibenzo(a,h)anthracene	A	5.0000	3.3	1.2118700	0.7978001		-34.2	+/-50
1-Methylnaphthalene	A	5.0000	5.8	0.9995882	1.1591800		16.0	+/-50
2-Fluorophenol	A	7.5000	7.43	1.4606150	1.4460220		-1.0	+/-50
Phenol-d5	A	7.5000	7.22	2.1672350	2.0858390		-3.8	+/-50
2-Chlorophenol-d4	A	7.5000	7.83	1.4882780	1.5535010		4.4	+/-50
1,2-Dichlorobenzene-d4	A	5.0000	5.35	0.9170783	0.9817581		7.1	+/-50
Nitrobenzene-d5	A	5.0000	4.86	0.4256249	0.4135733		-2.8	+/-50
2-Fluorobiphenyl	A	5.0000	5.37	1.8101110	1.9448010		7.4	+/-50
2,4,6-Tribromophenol	A	7.5000	8.26	0.1582114	0.2009399		10.1	+/-50
p-Terphenyl-d14	A	5.0000	4.92	1.3958840	1.3732020		-1.6	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220714.1\NT1022071422.D

Date: 15-JUL-2022 03:18

Client ID:

Sample Info: SKC0139-CCW1

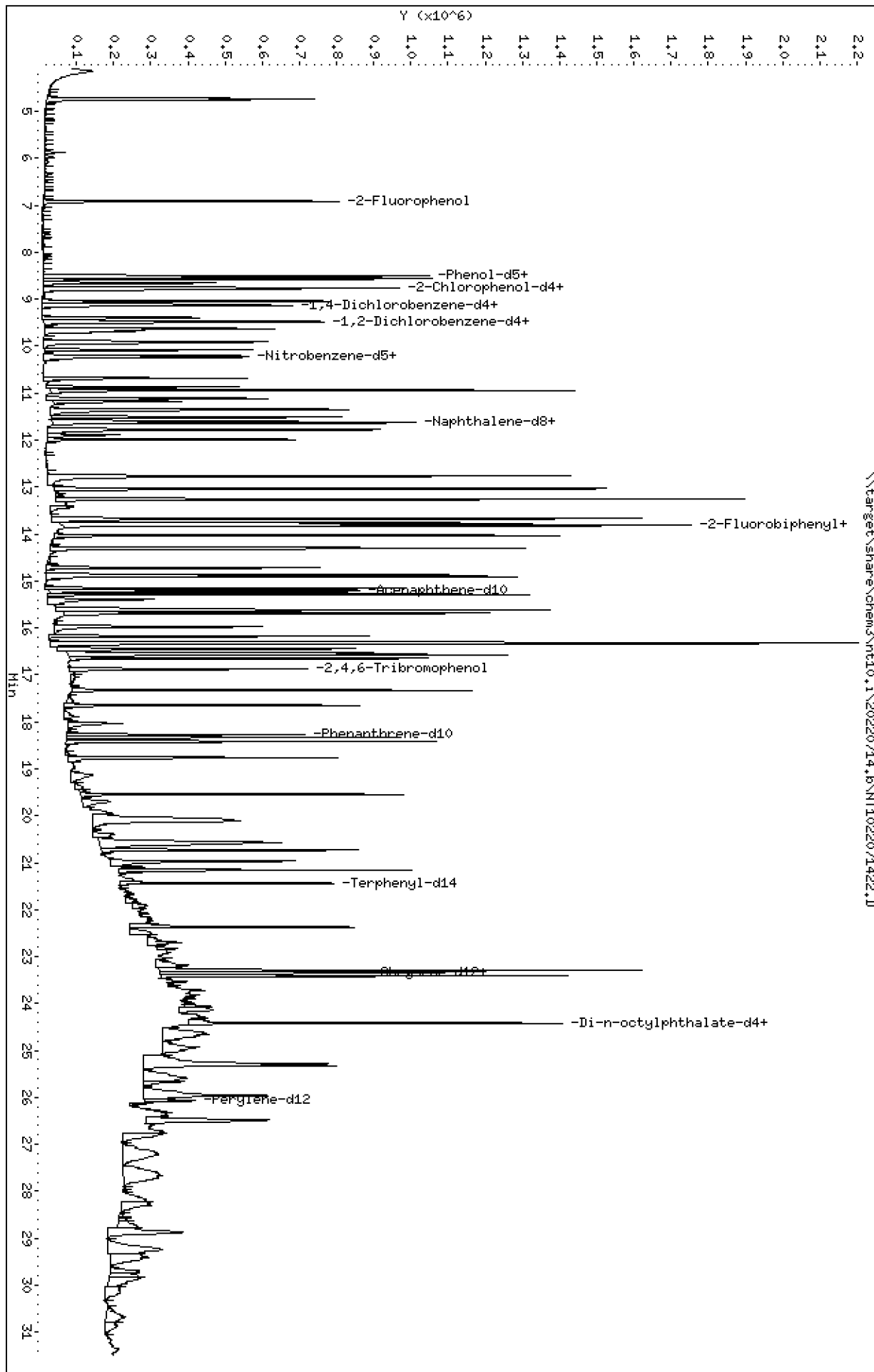
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

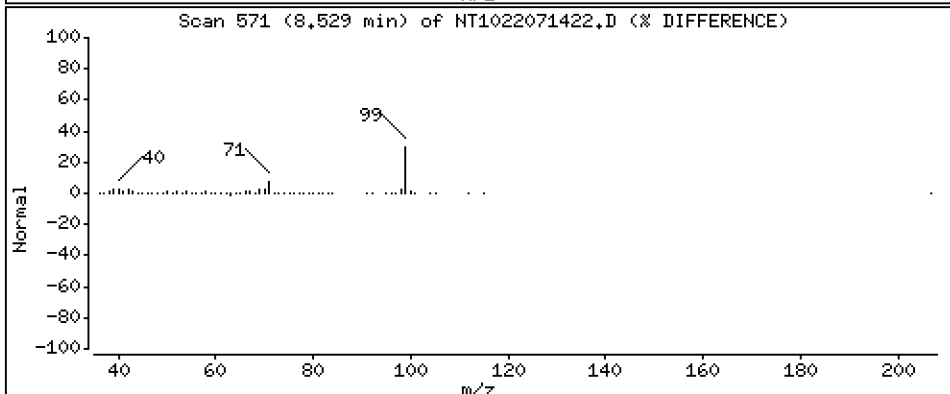
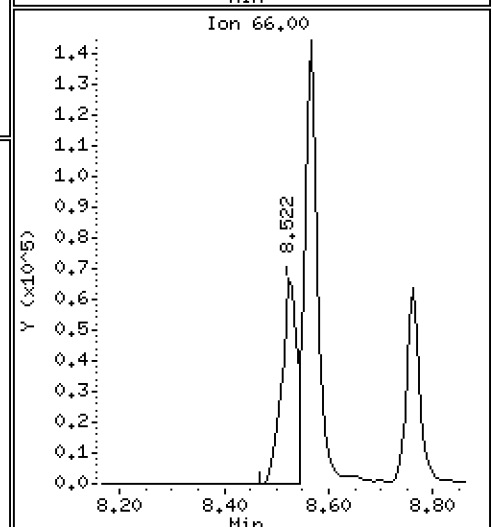
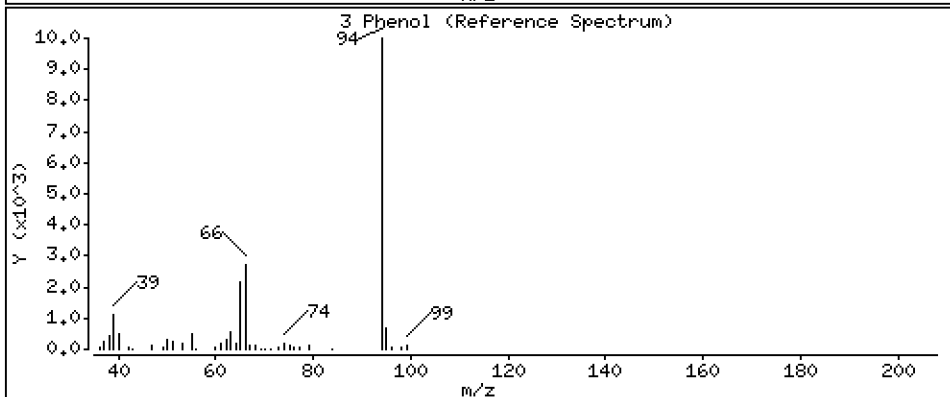
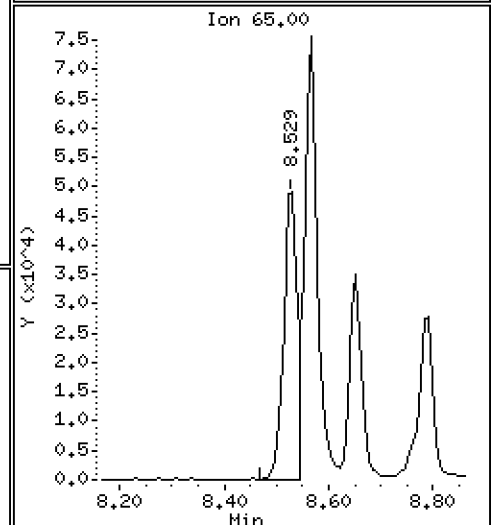
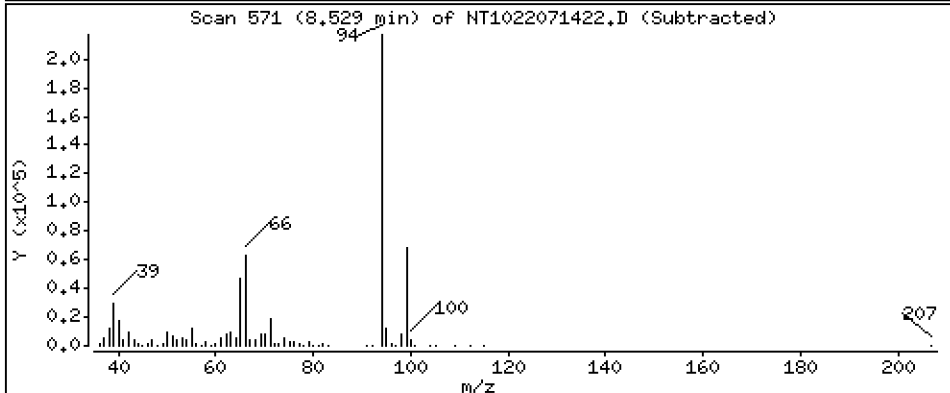
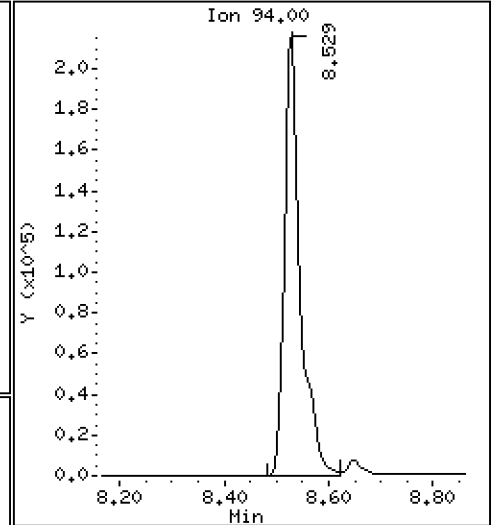
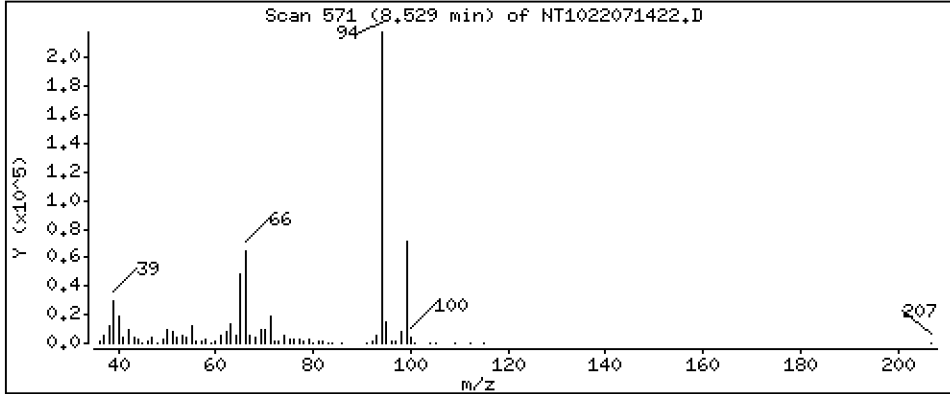
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 5,371 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

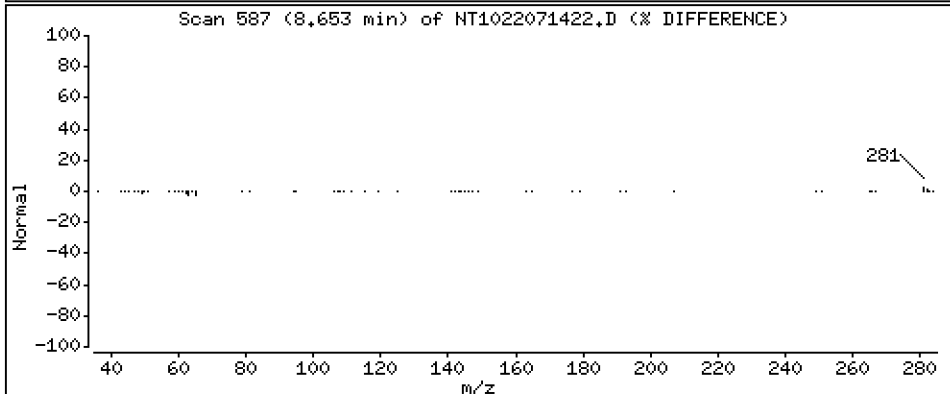
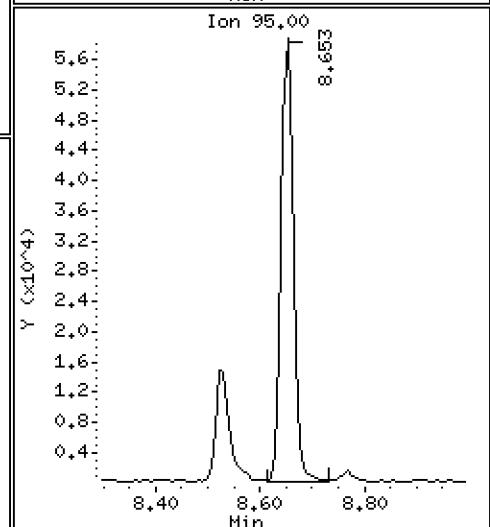
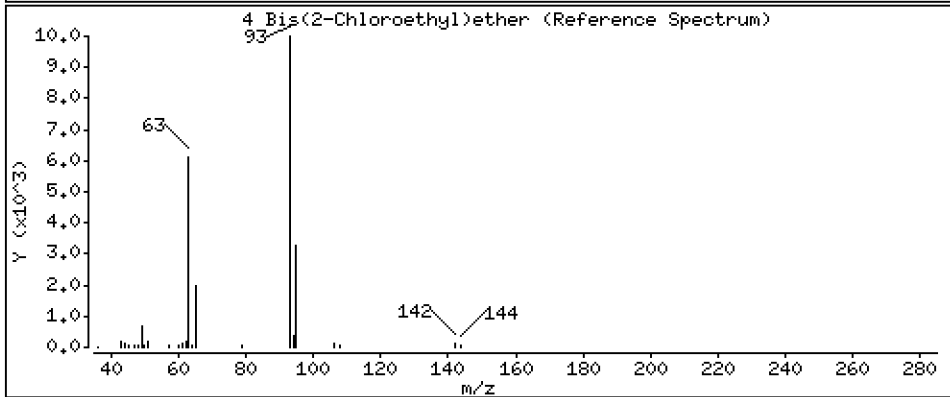
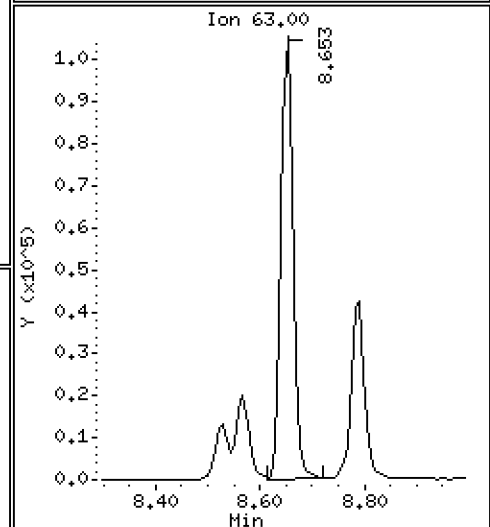
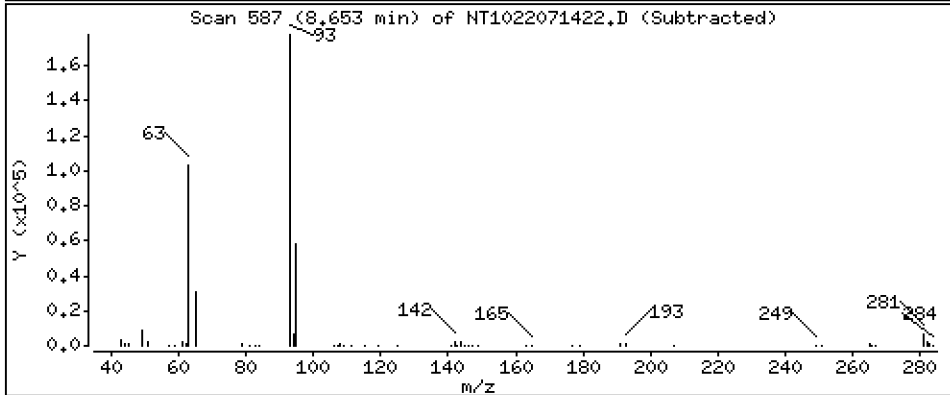
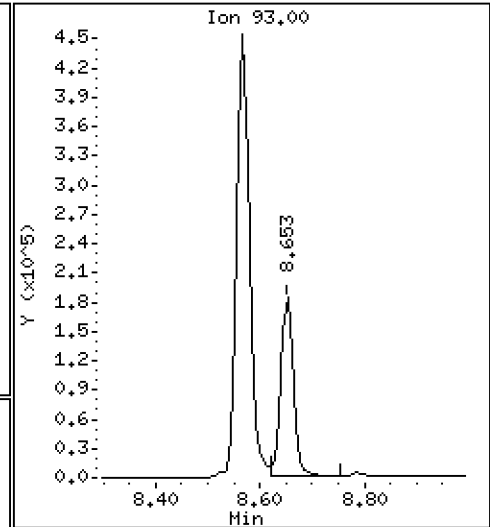
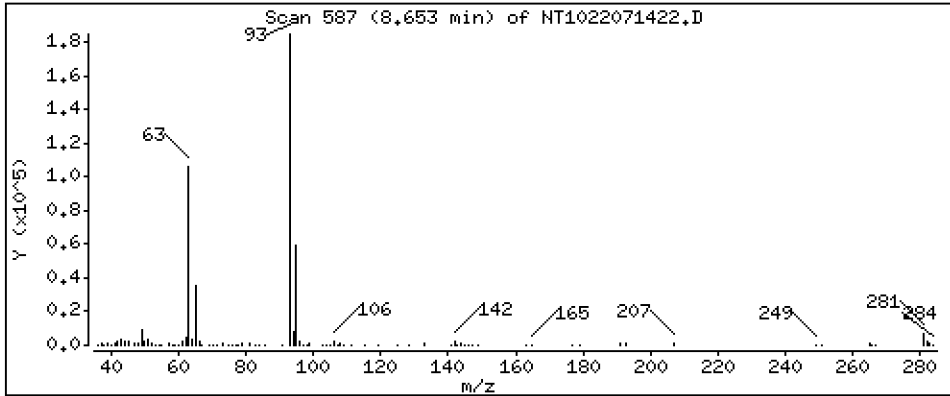
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,658 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

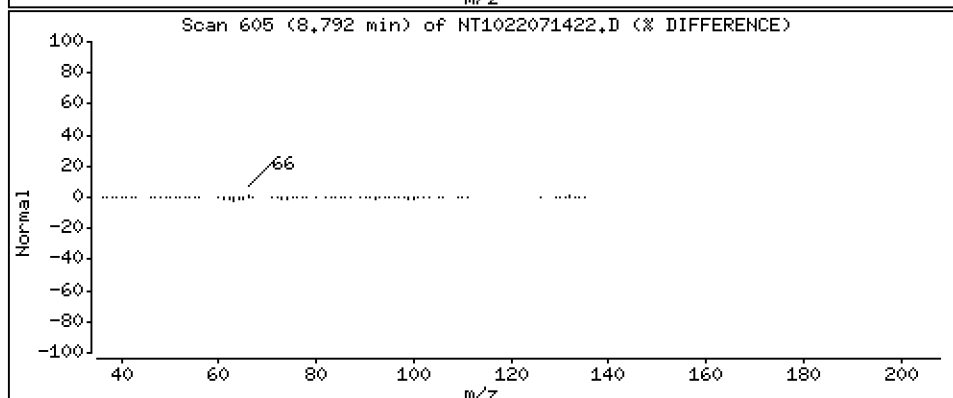
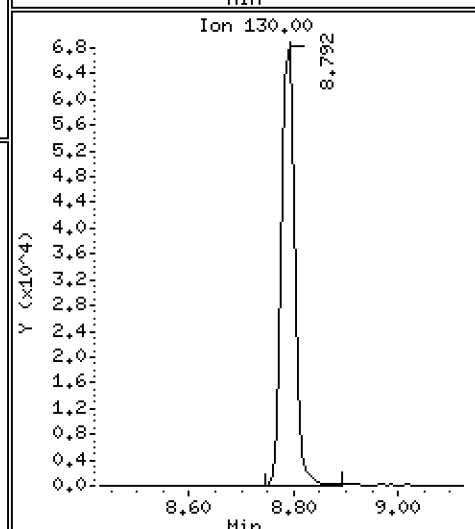
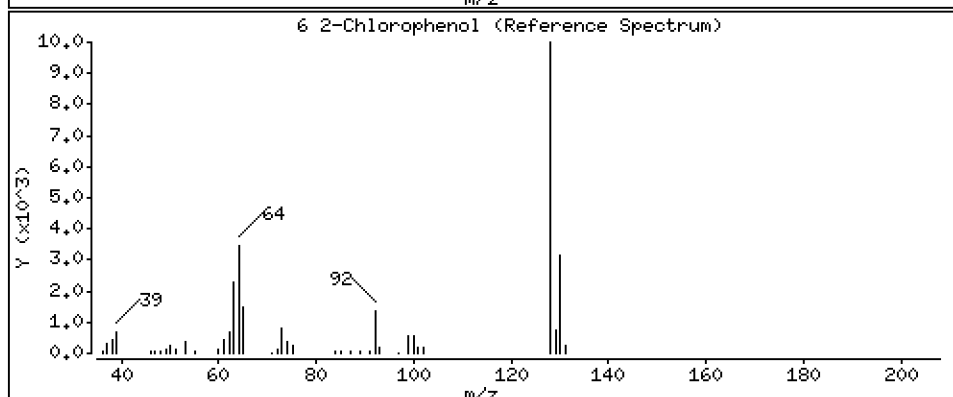
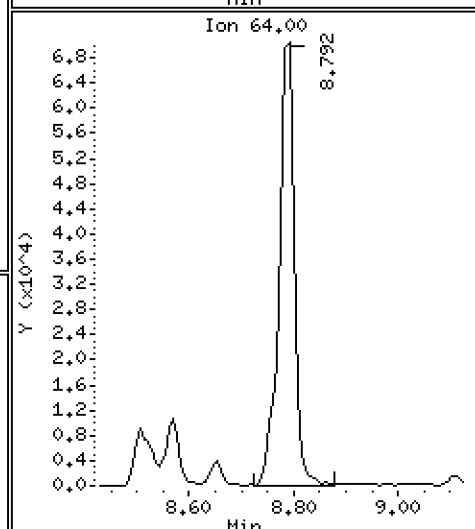
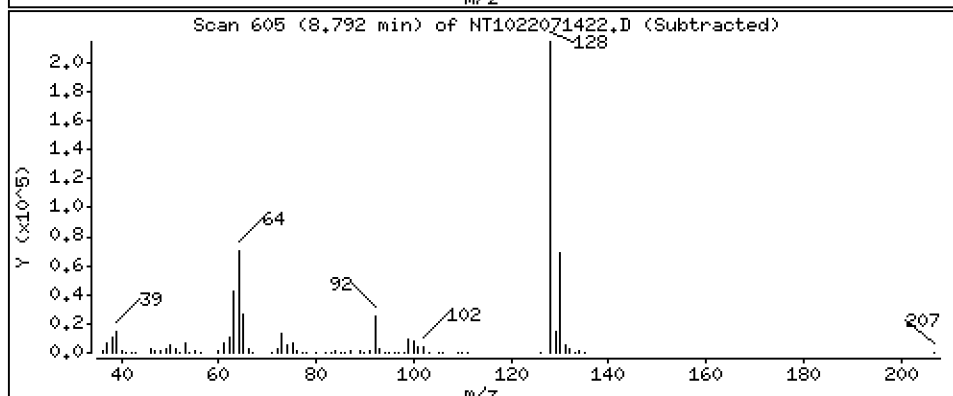
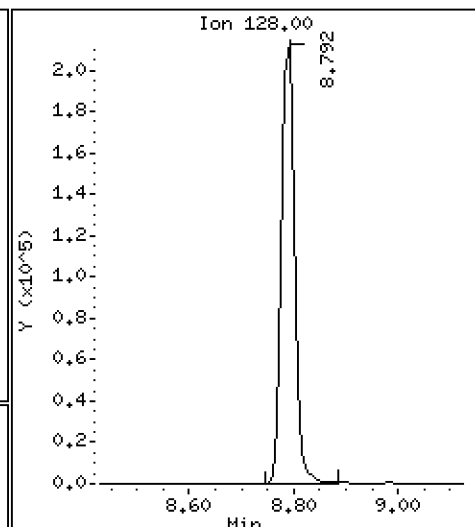
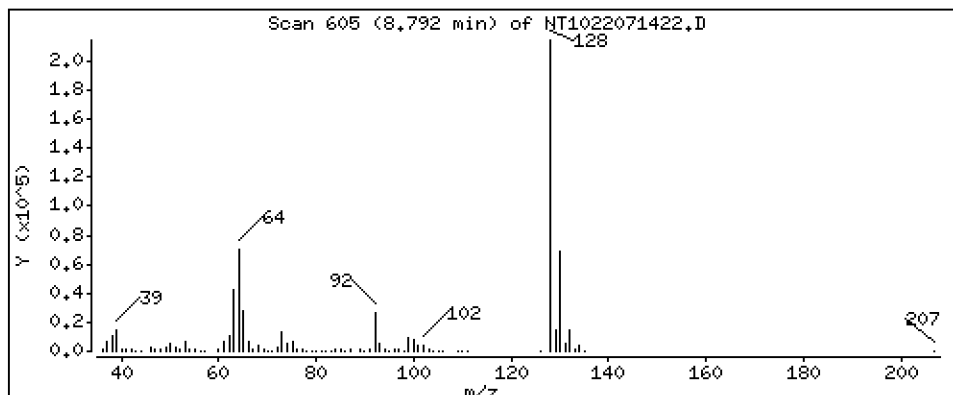
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 5,136 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

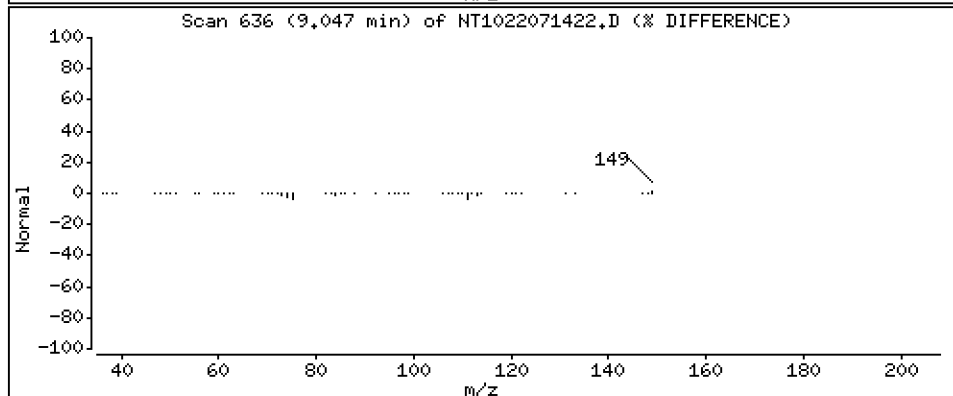
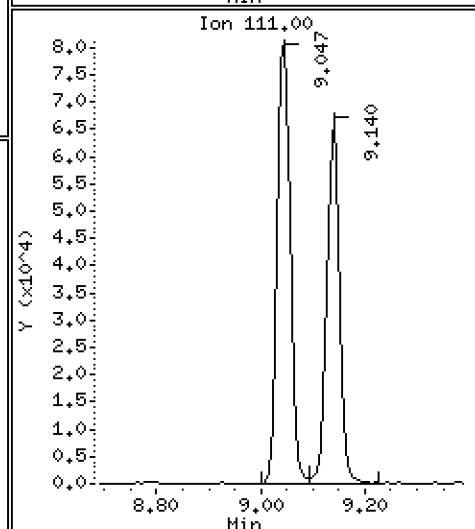
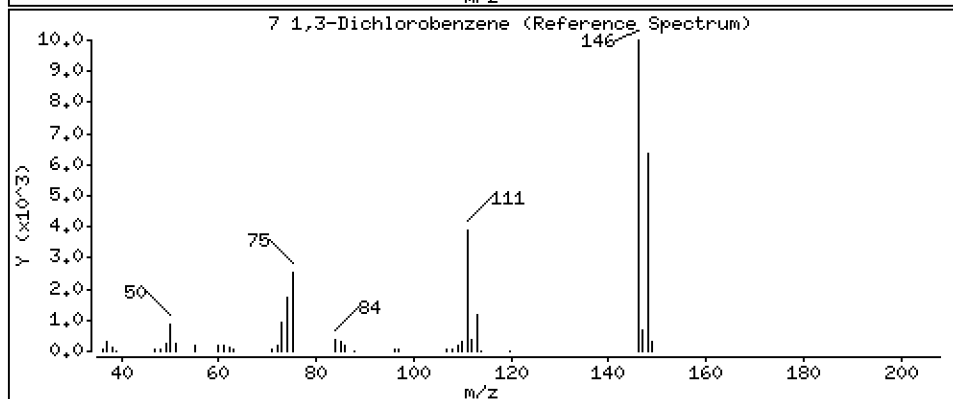
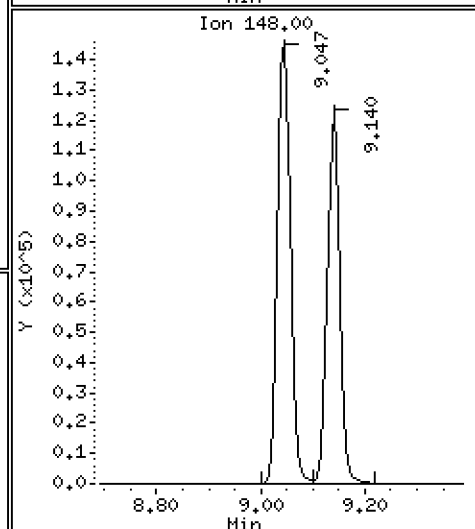
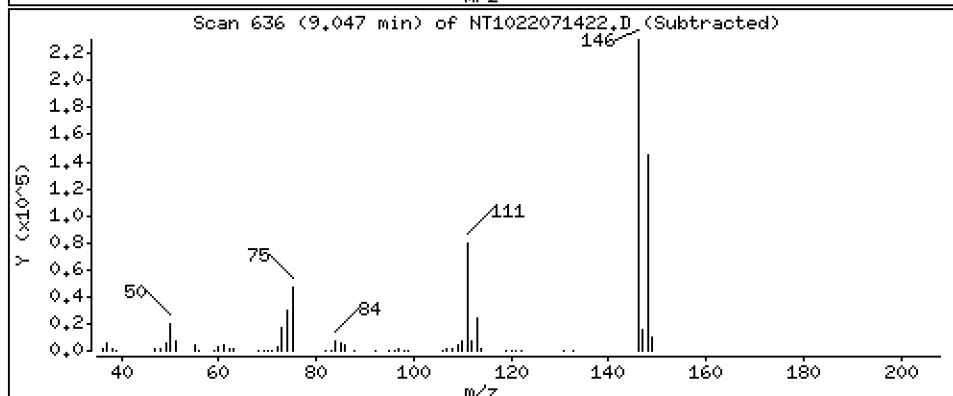
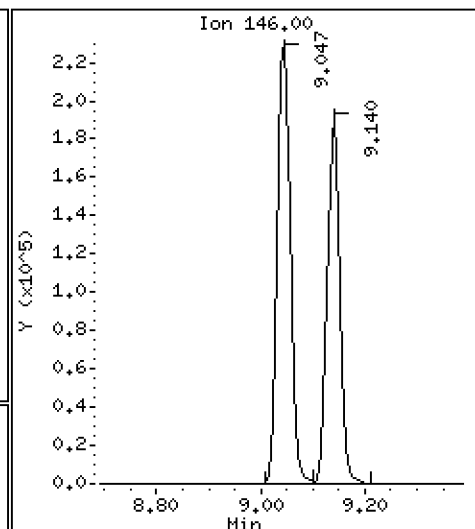
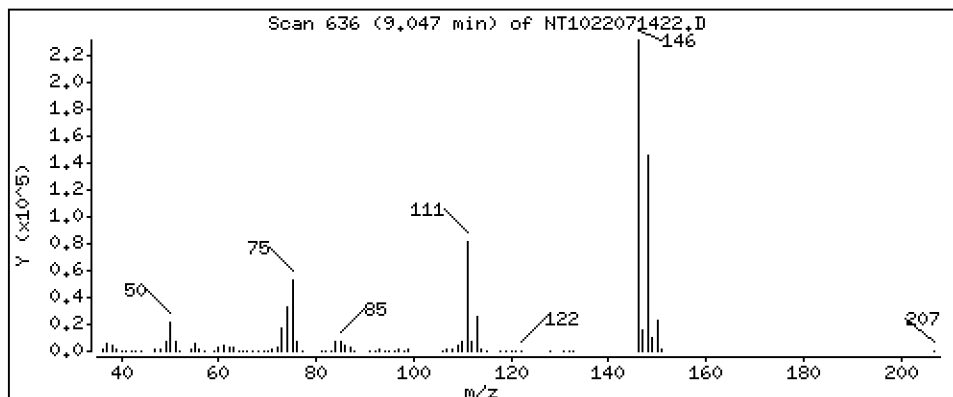
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 5,151 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

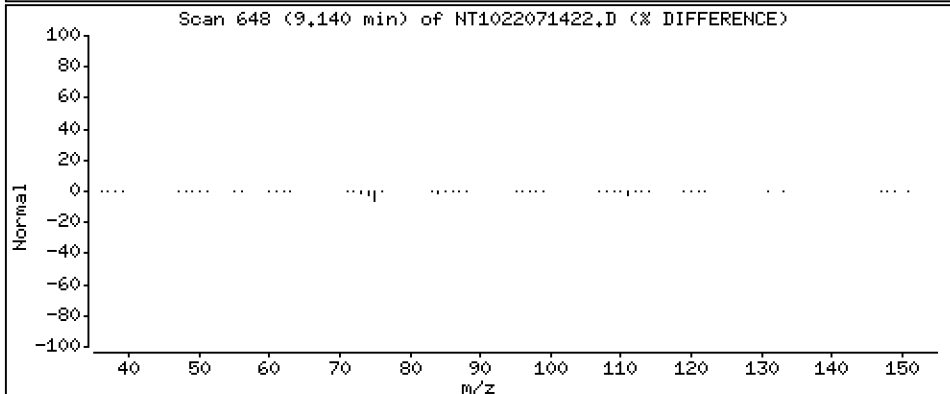
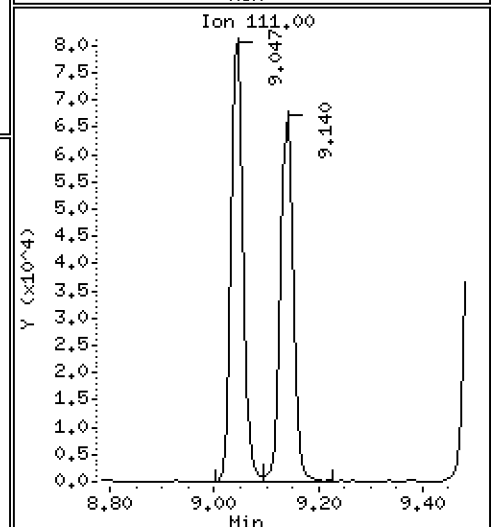
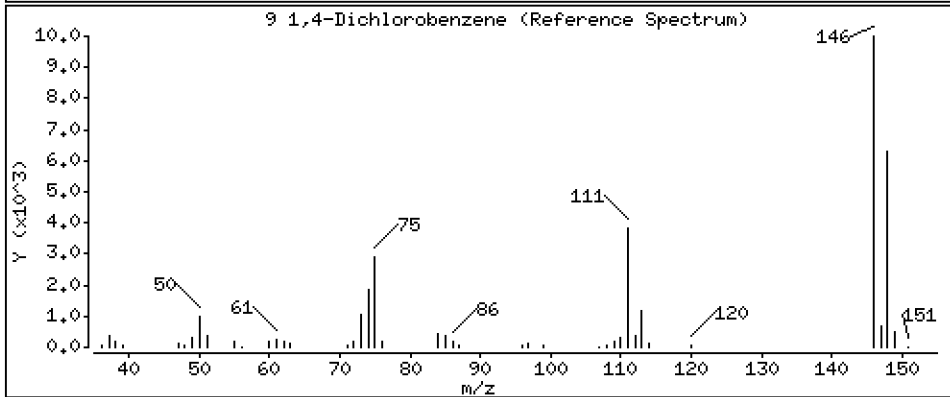
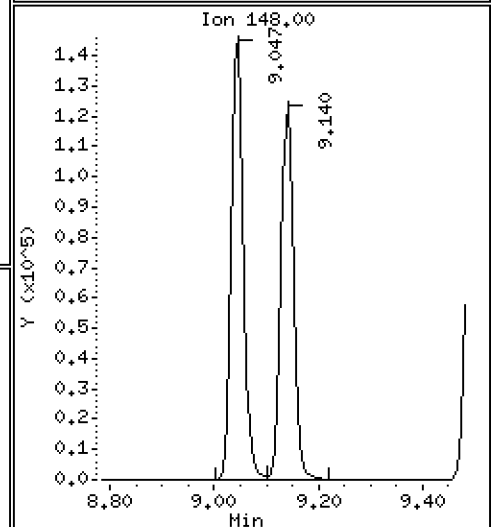
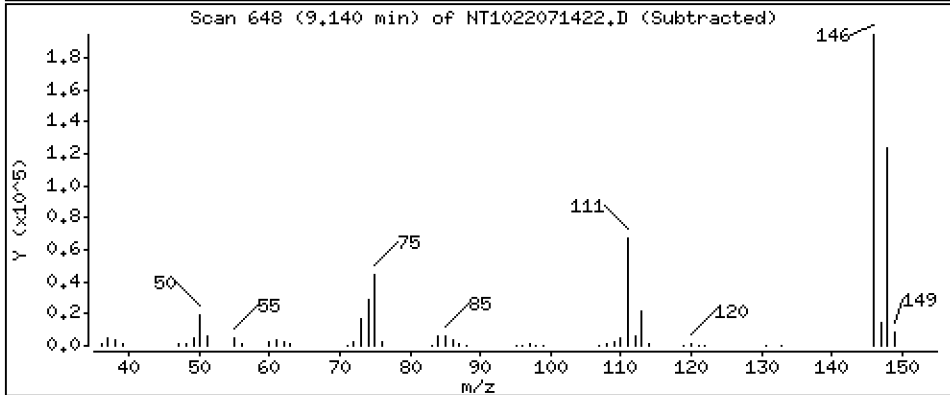
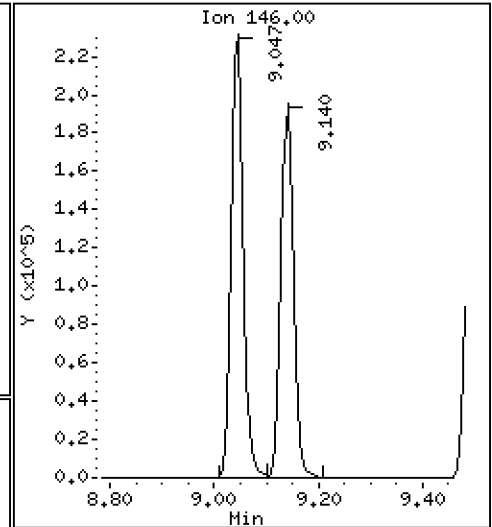
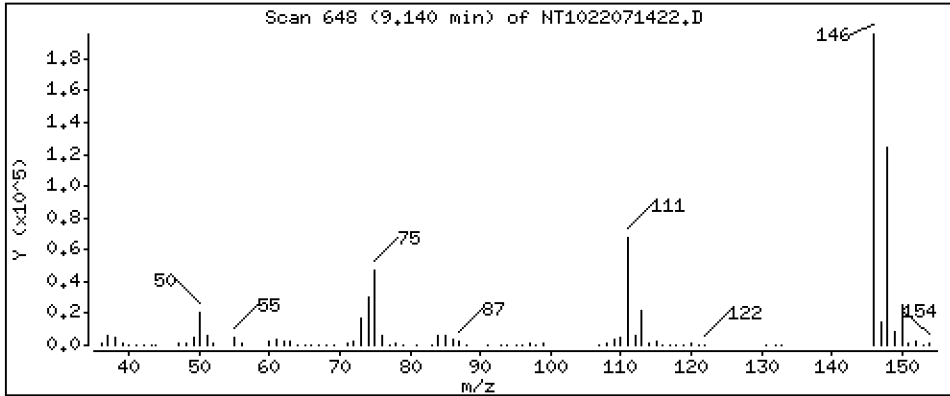
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 5,289 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

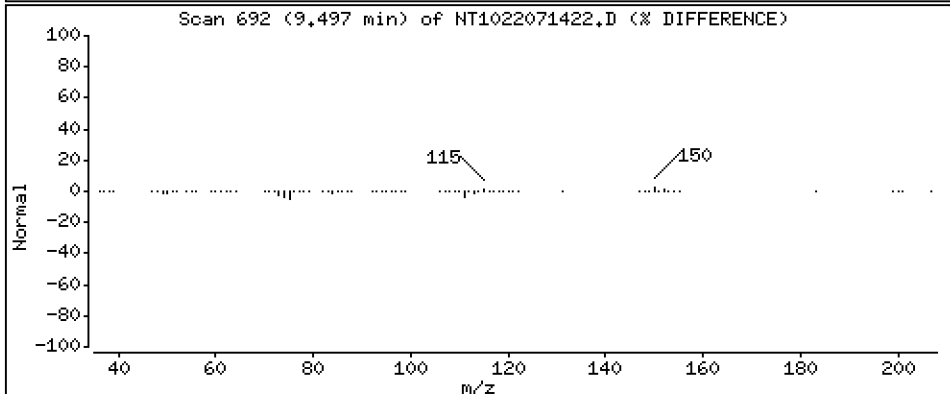
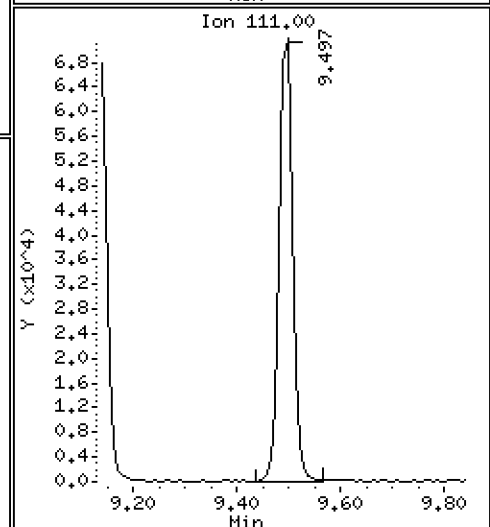
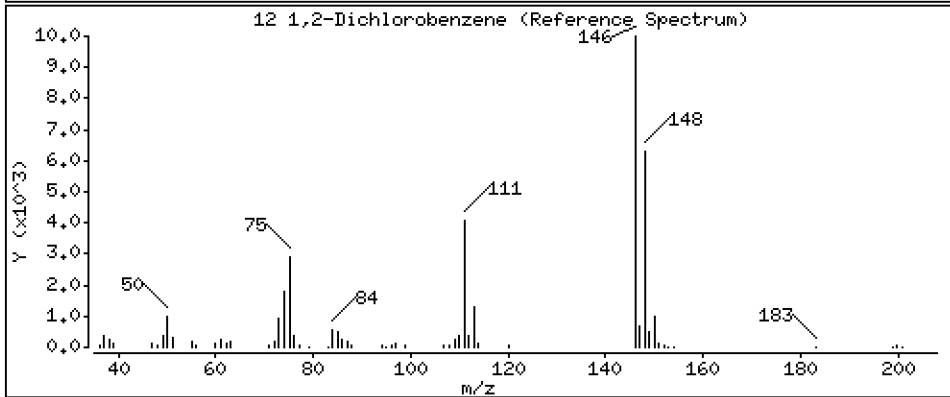
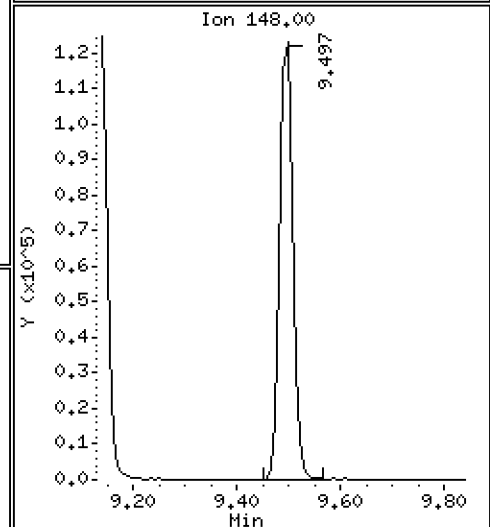
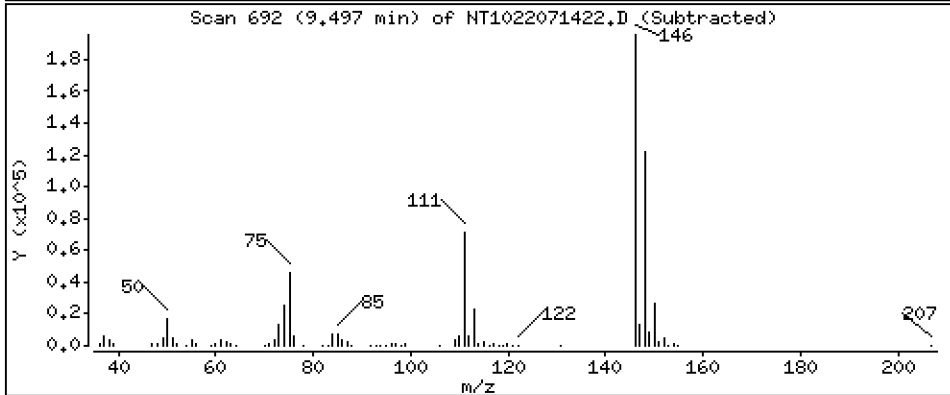
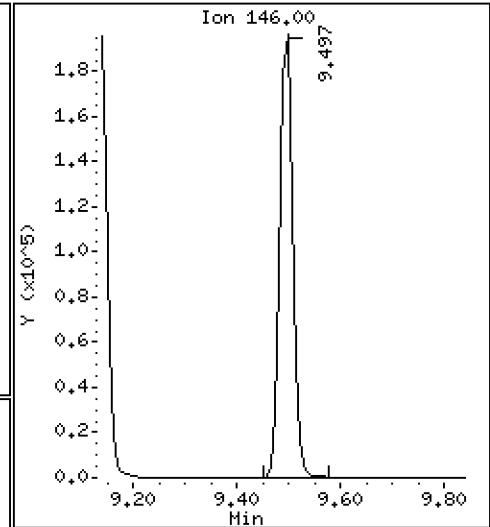
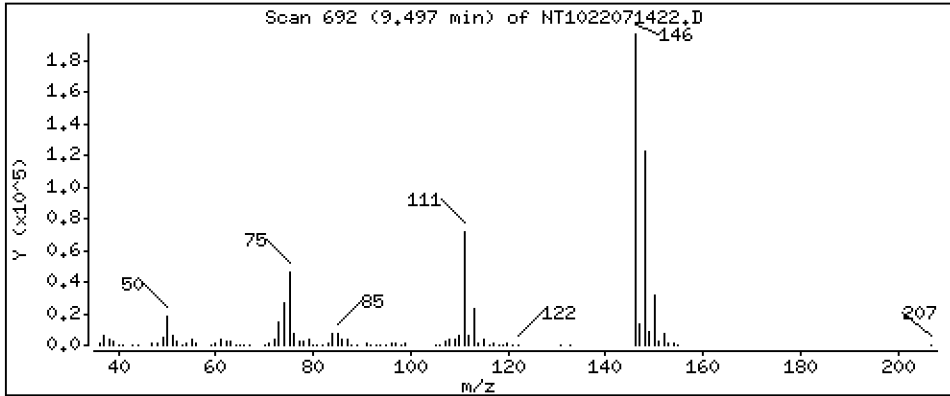
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 5,192 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

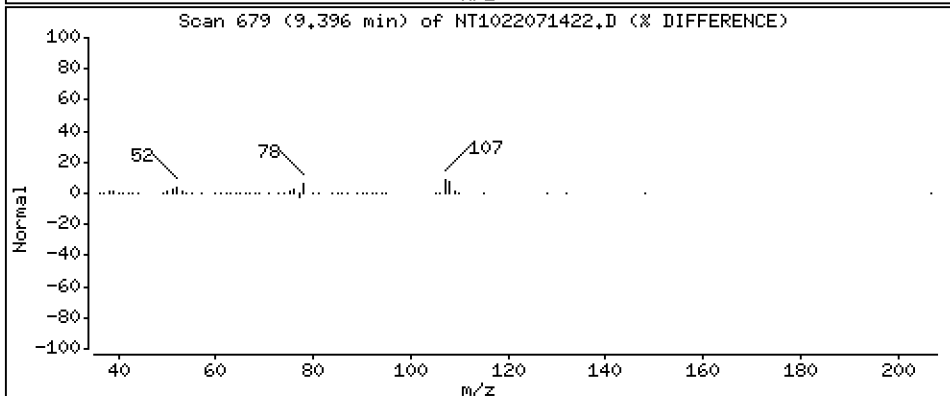
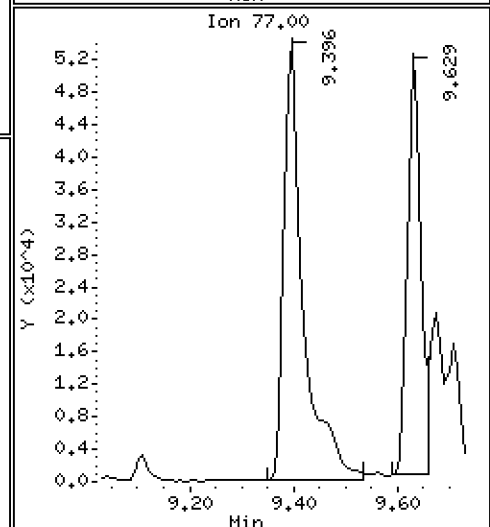
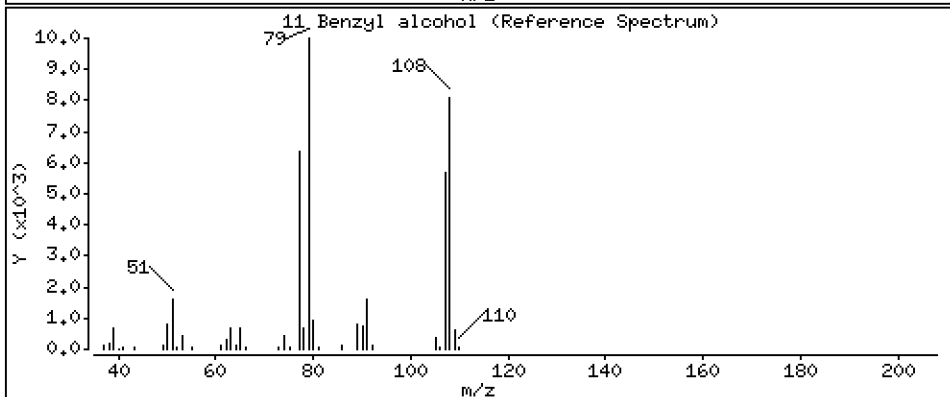
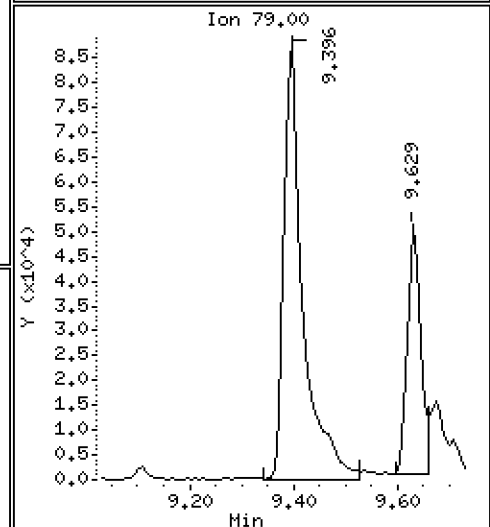
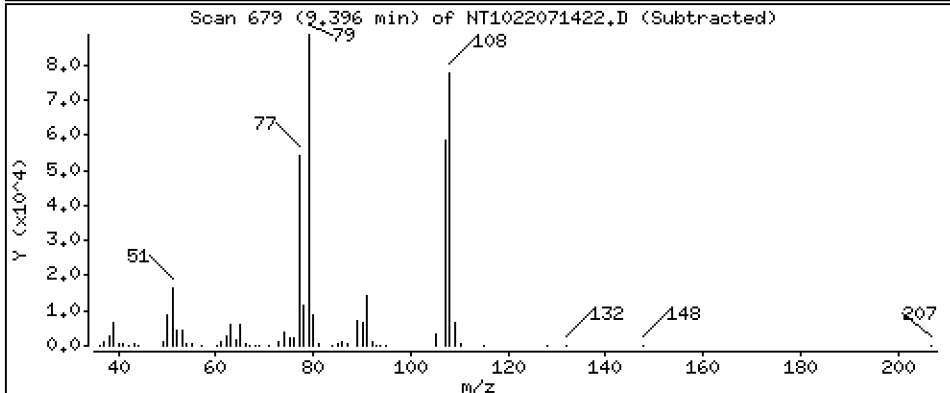
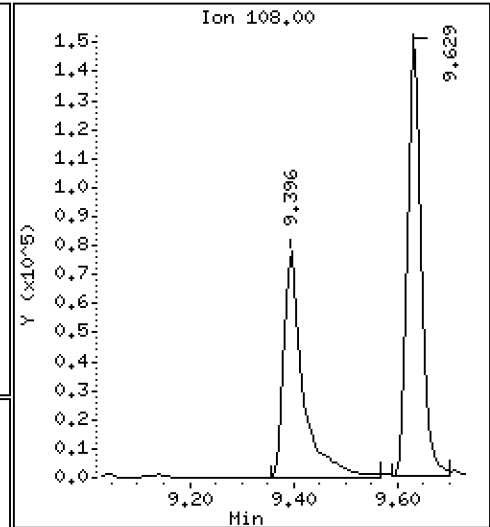
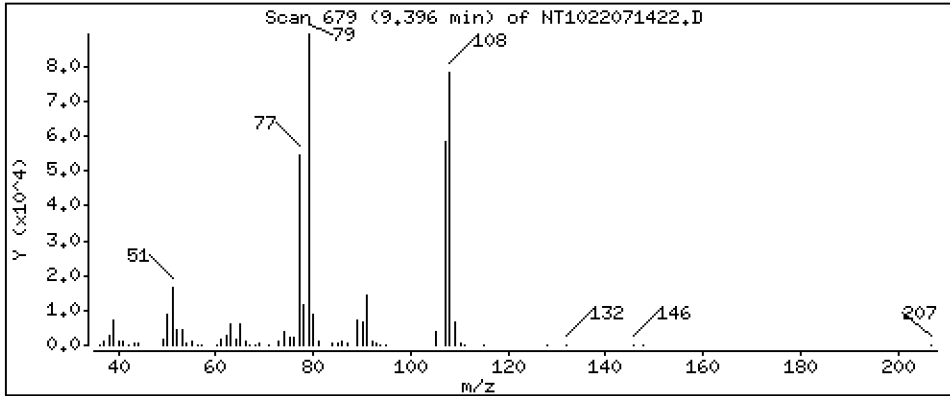
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 5,752 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

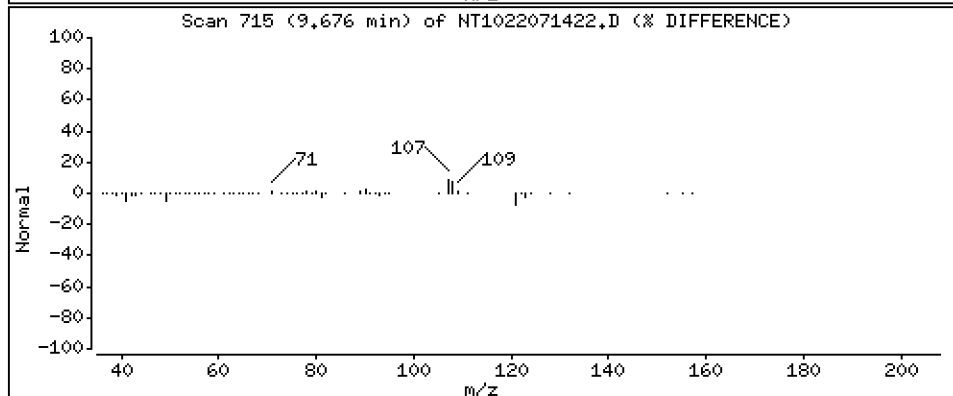
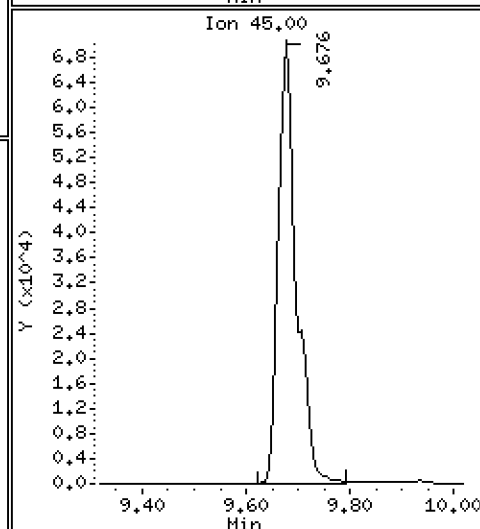
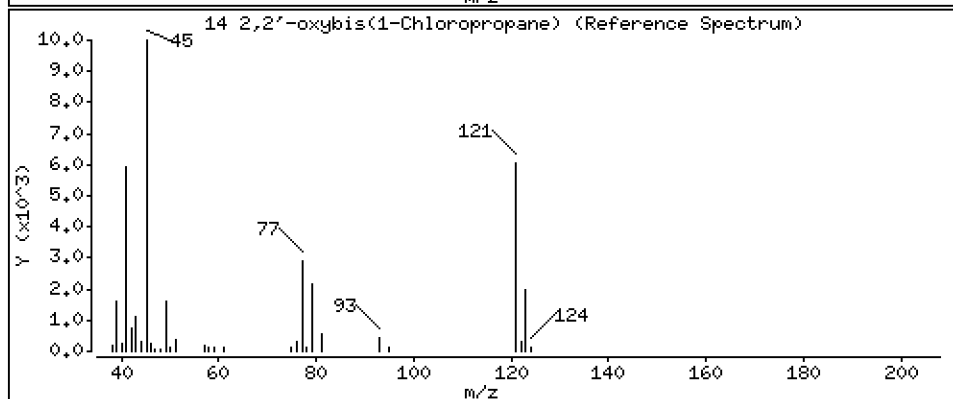
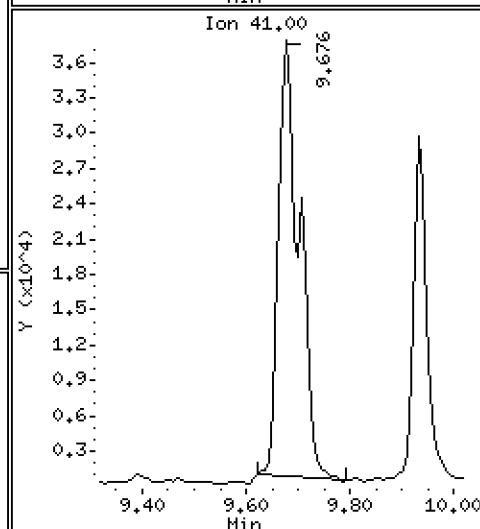
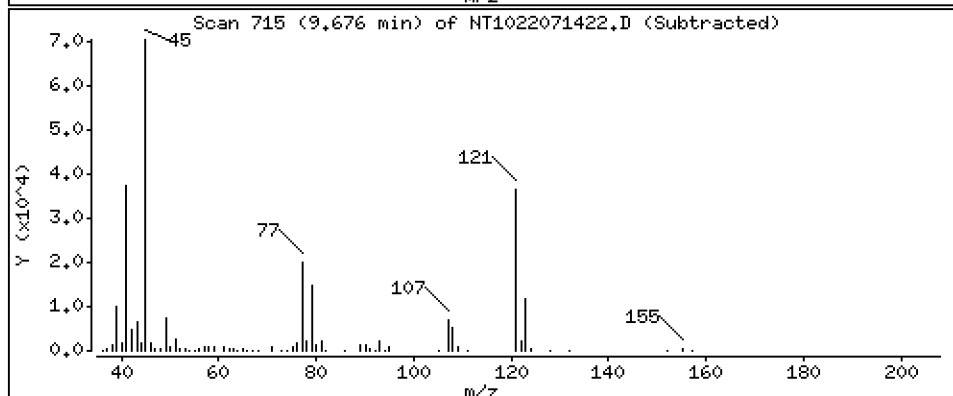
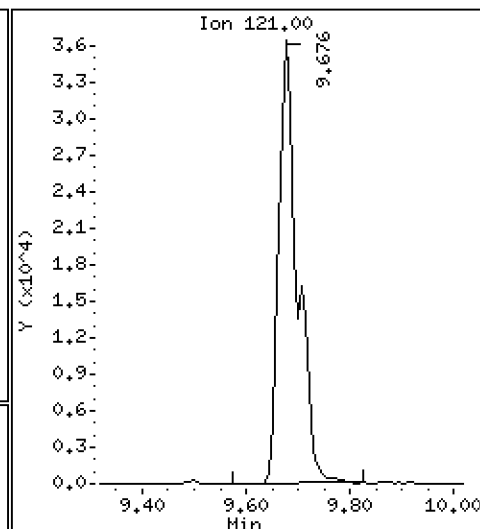
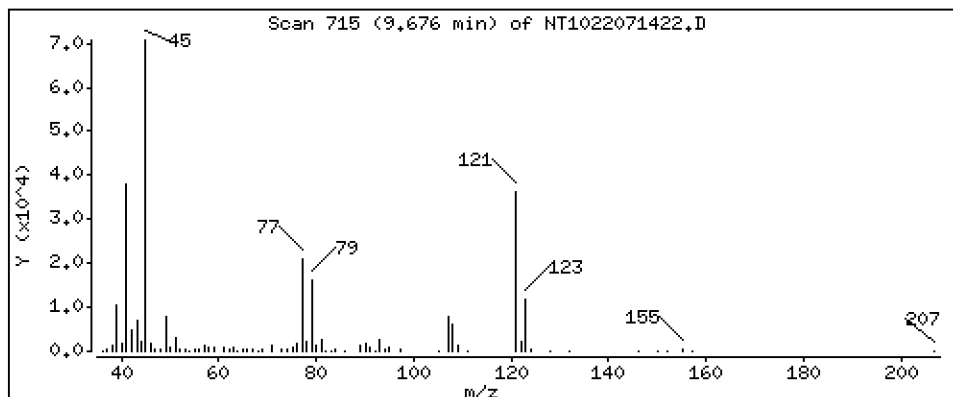
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 6,565 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

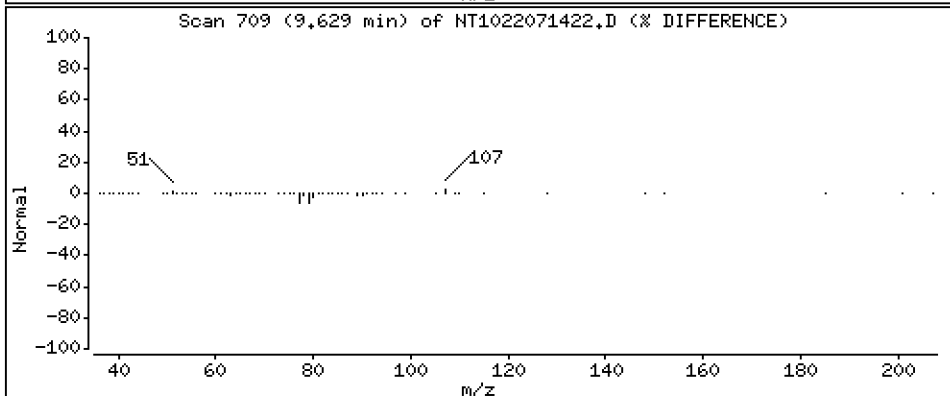
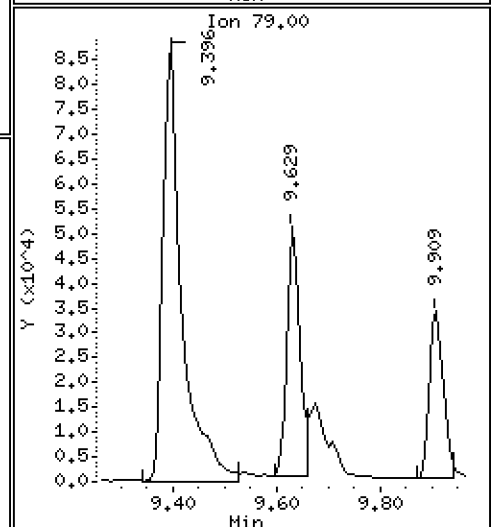
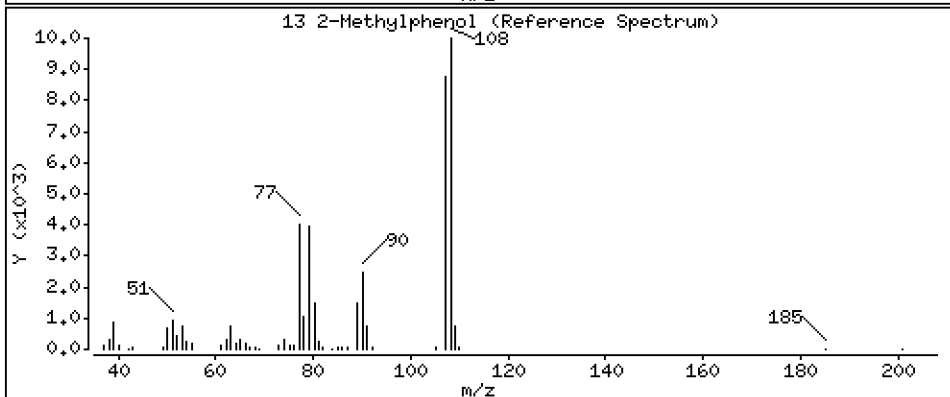
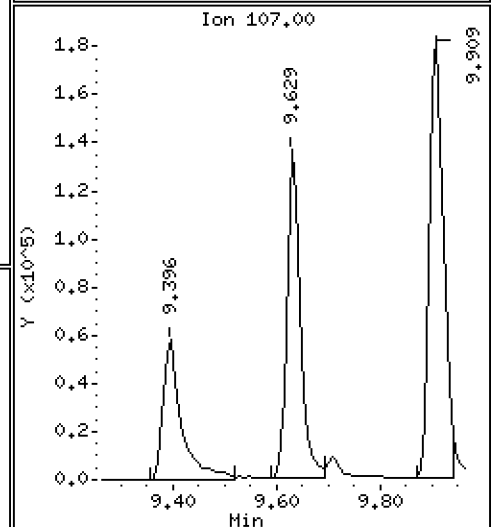
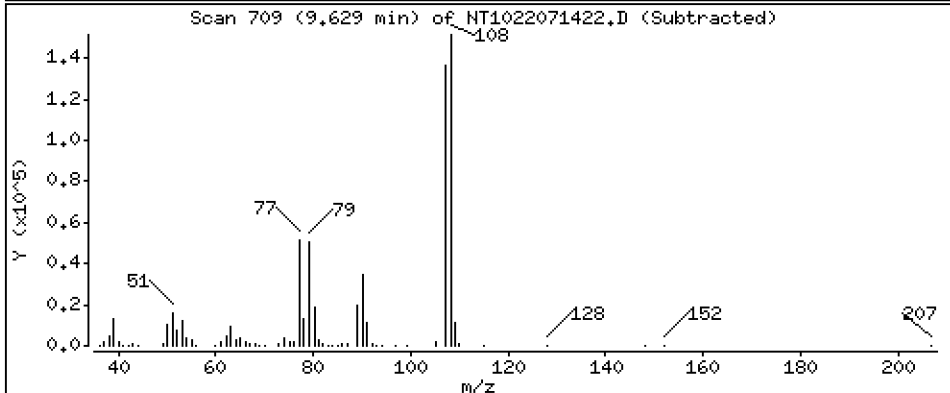
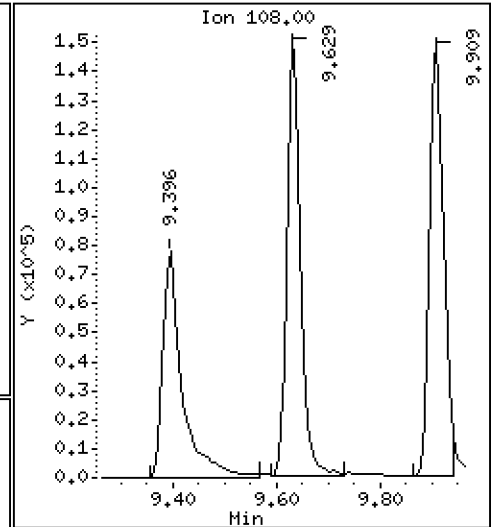
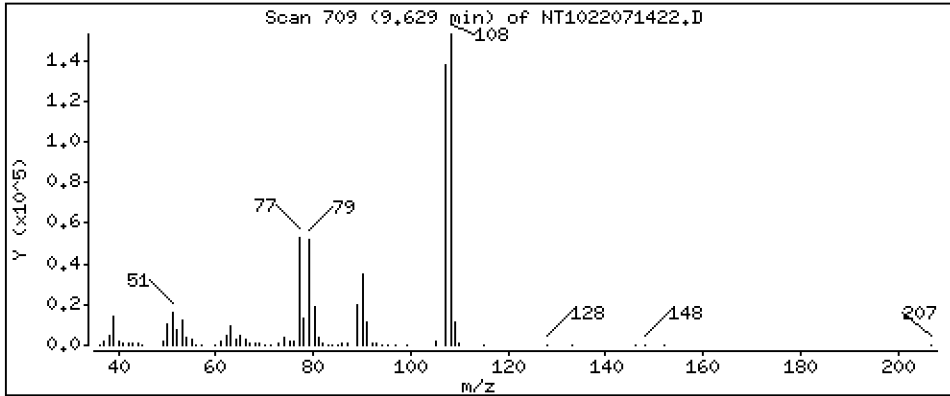
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 5,200 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

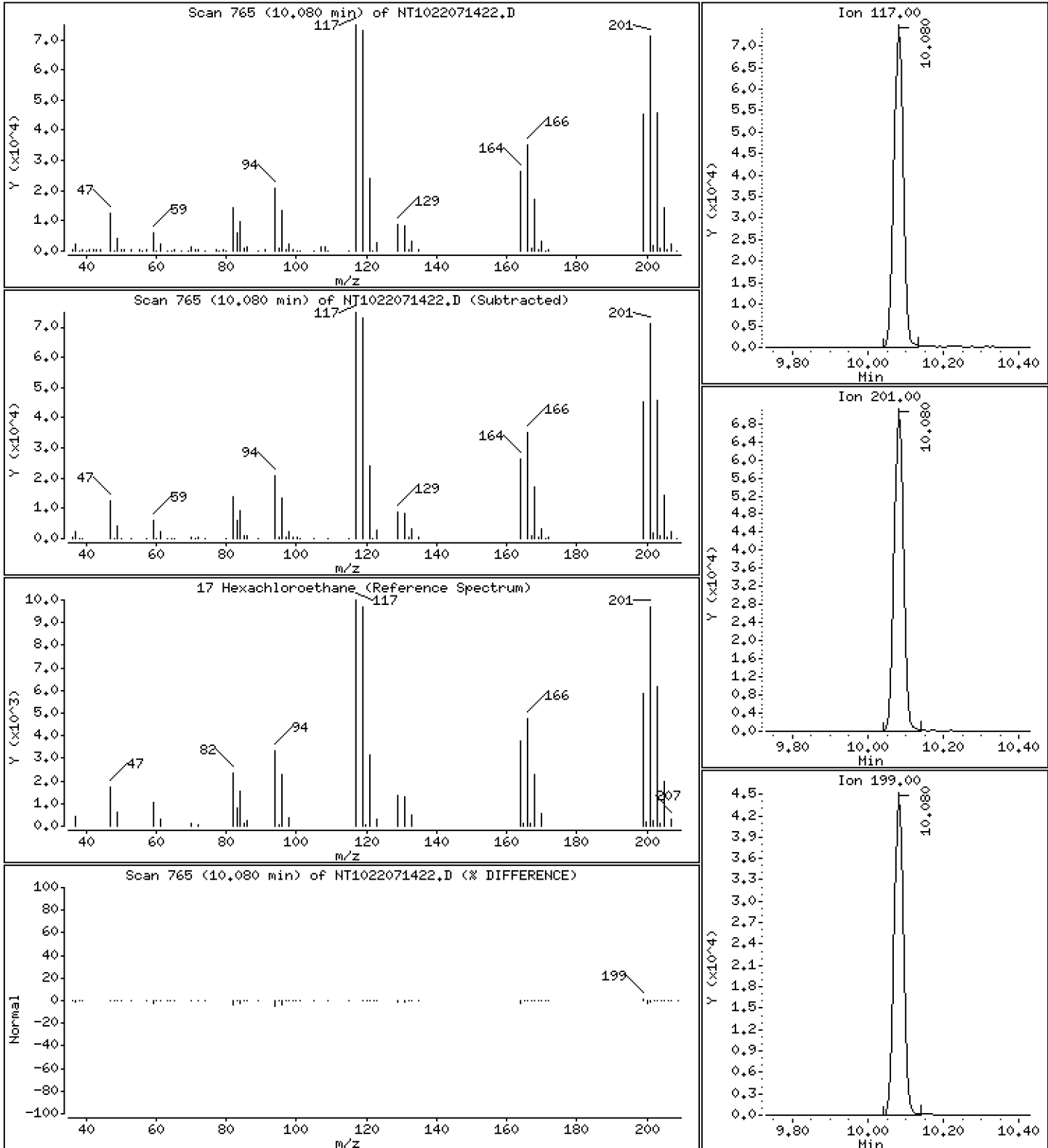
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 4,658 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

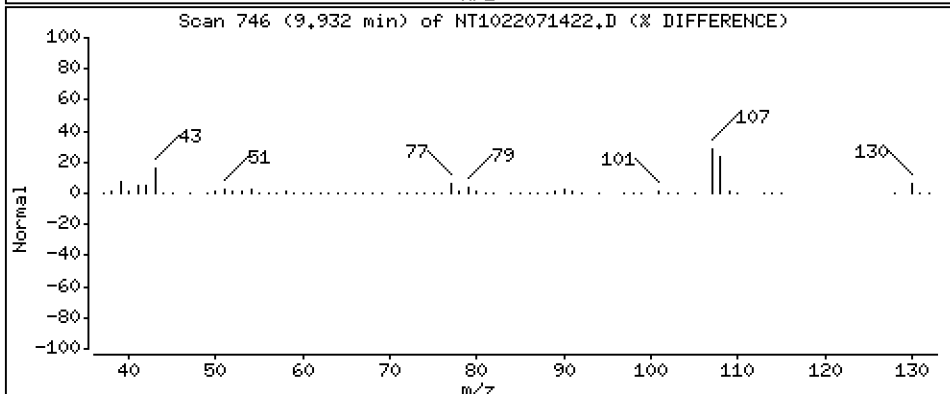
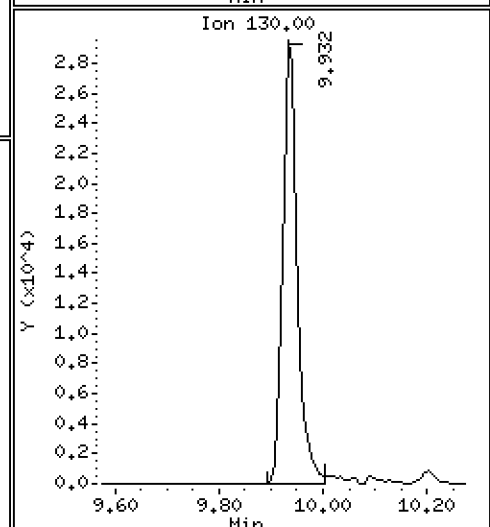
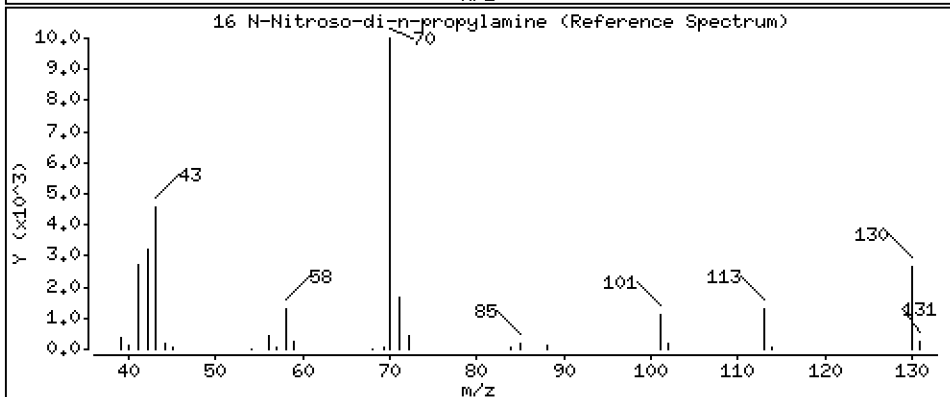
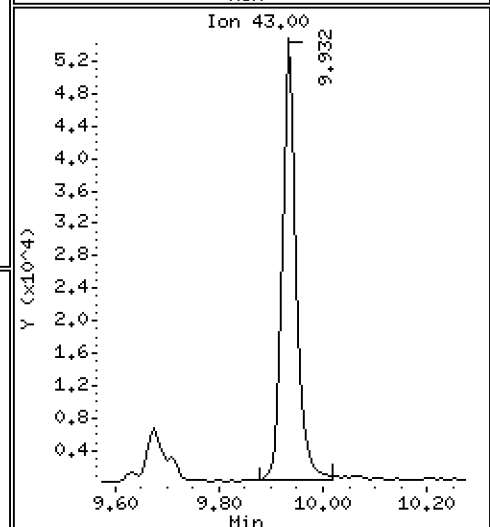
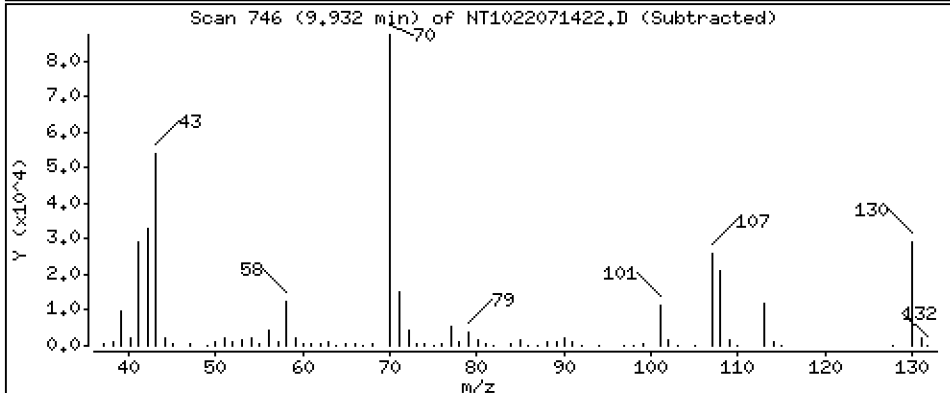
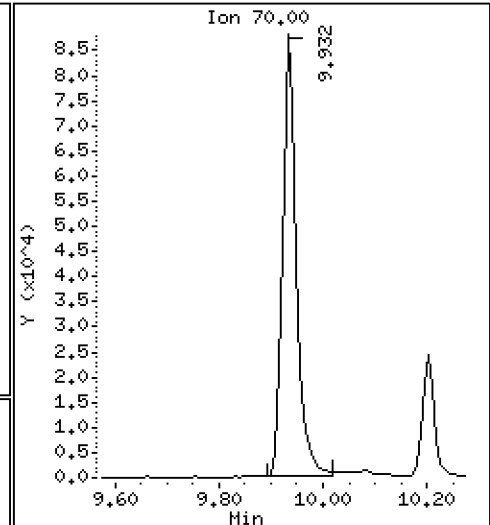
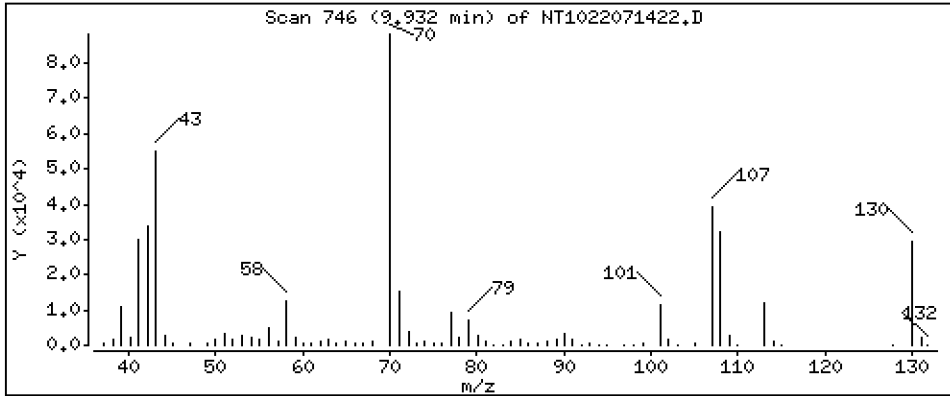
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 4,283 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

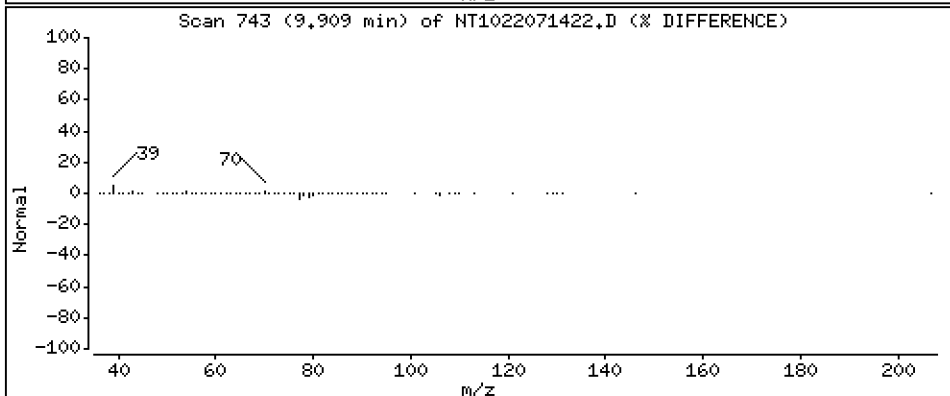
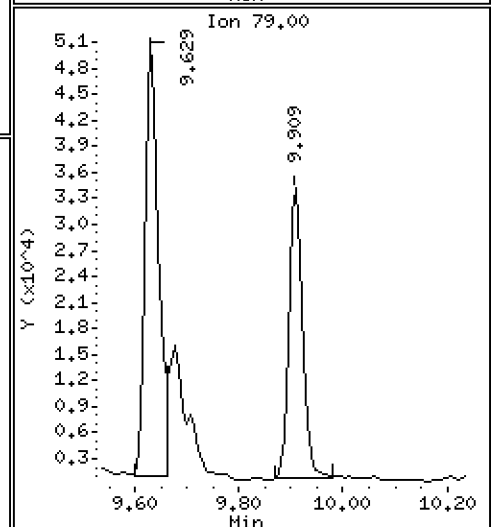
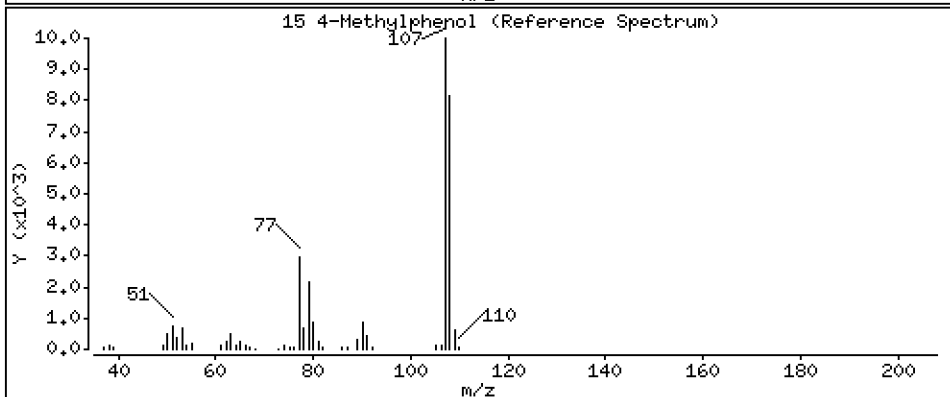
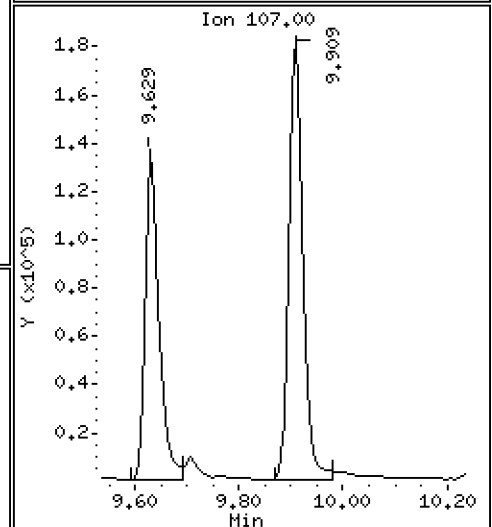
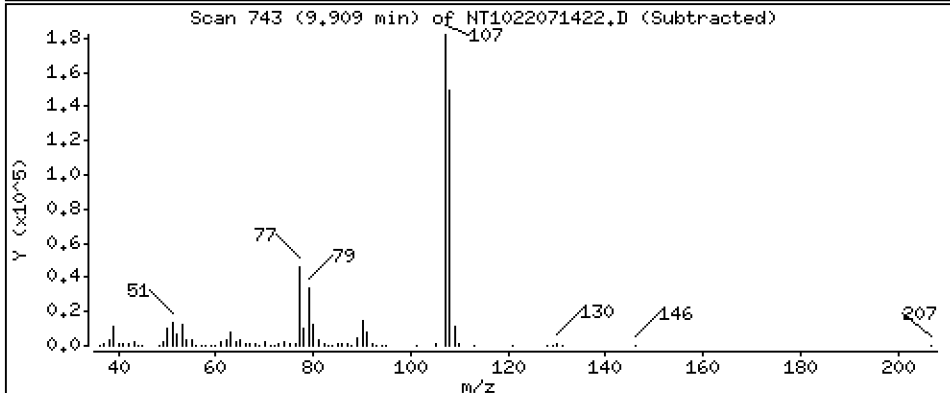
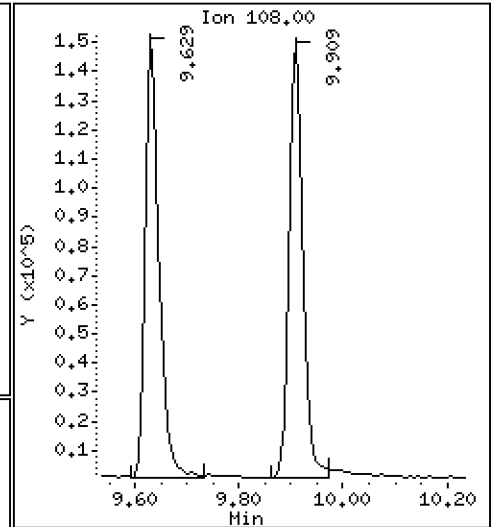
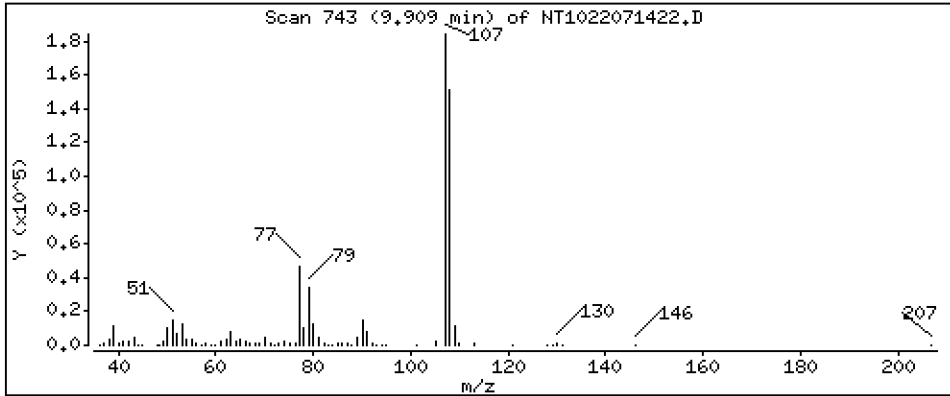
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 5,042 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

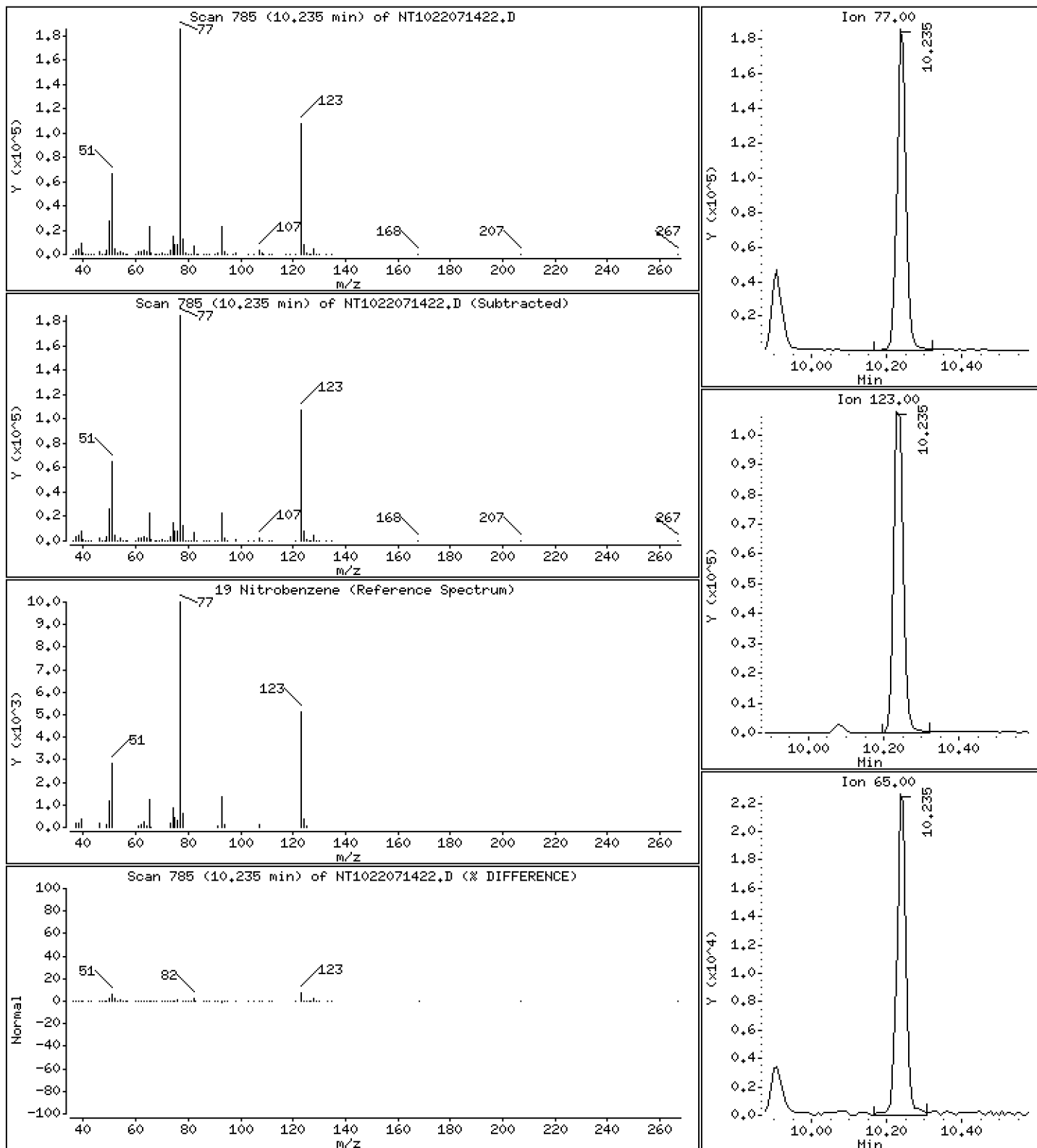
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,753 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

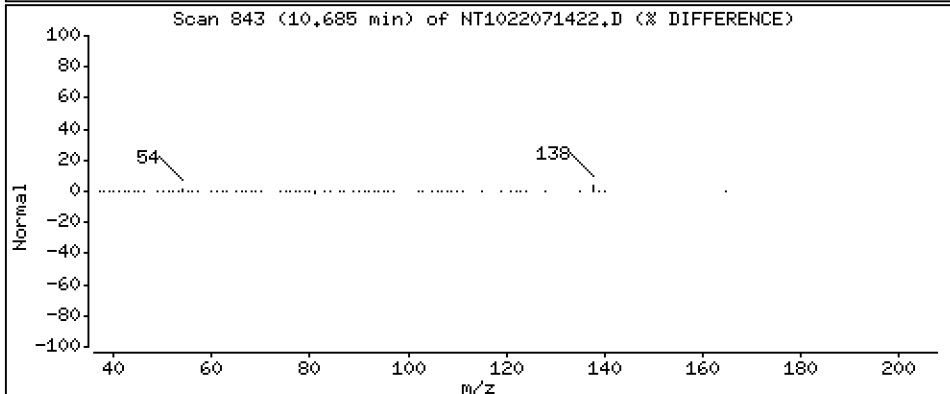
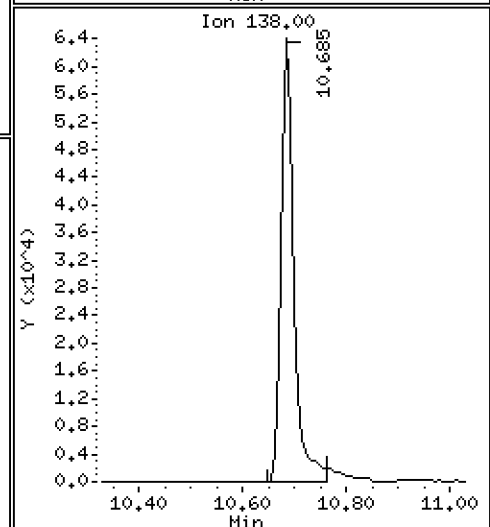
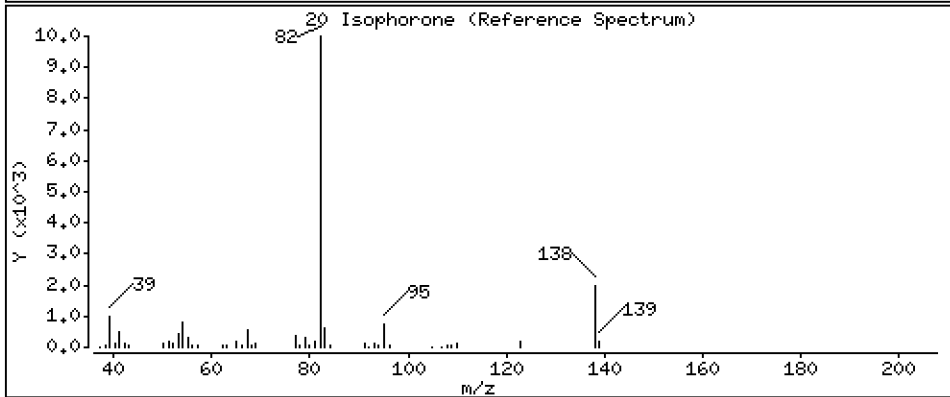
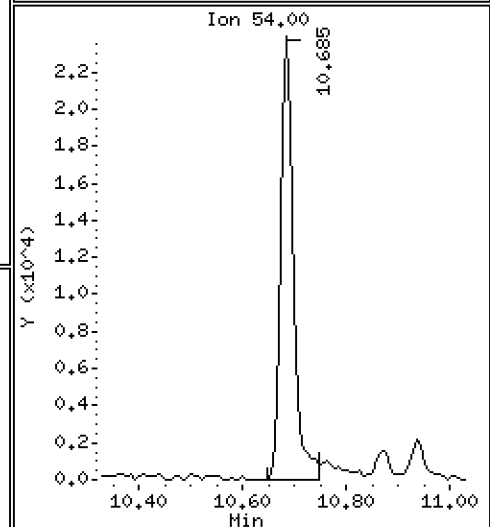
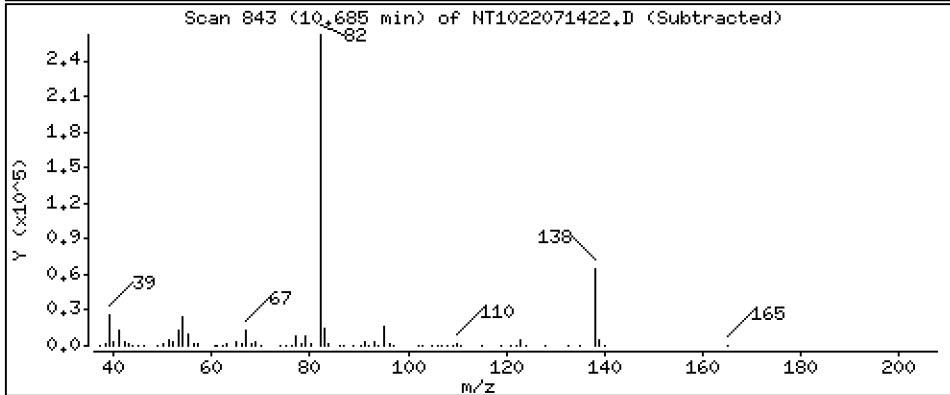
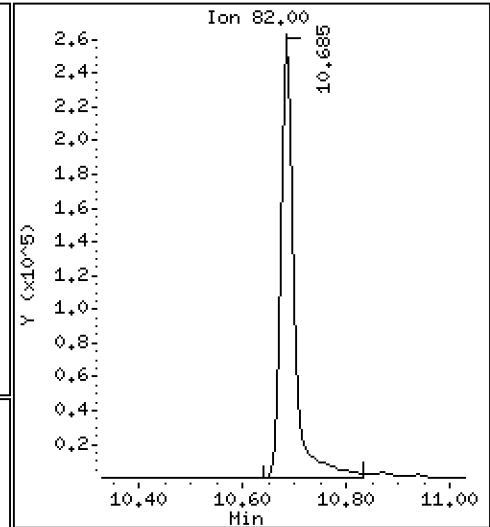
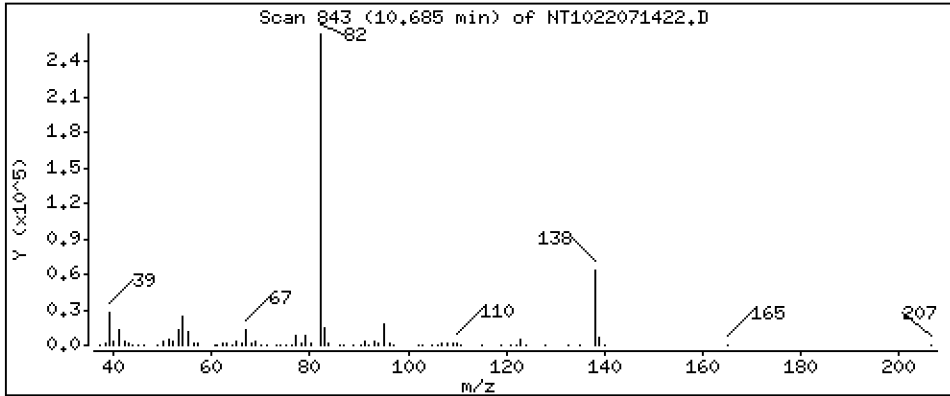
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,705 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

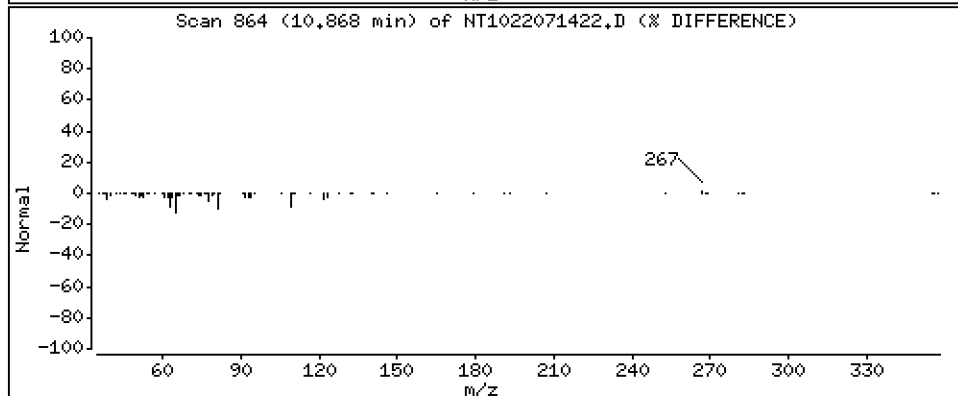
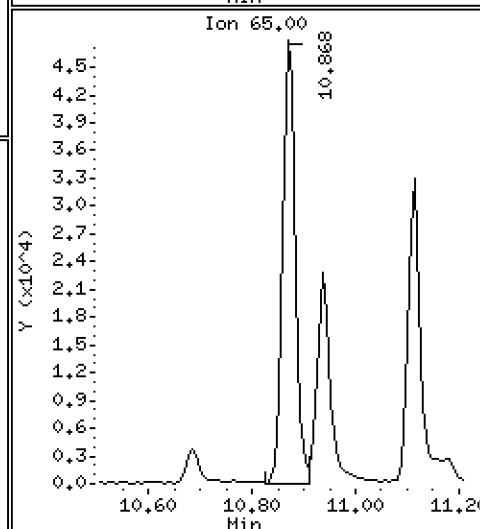
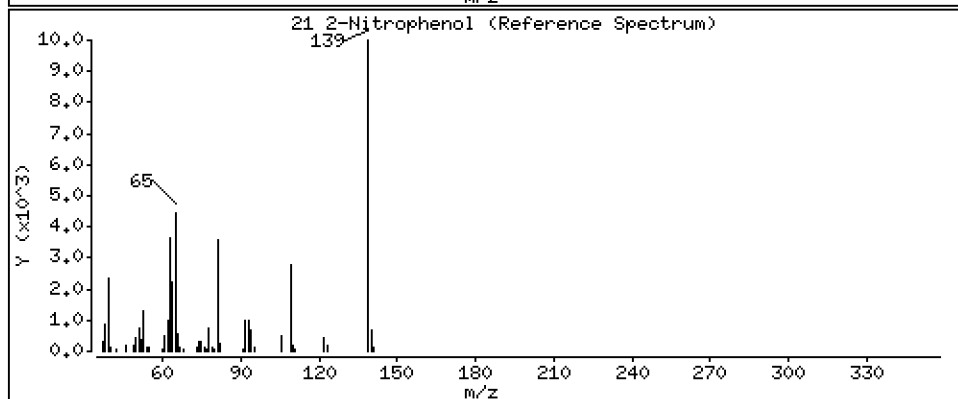
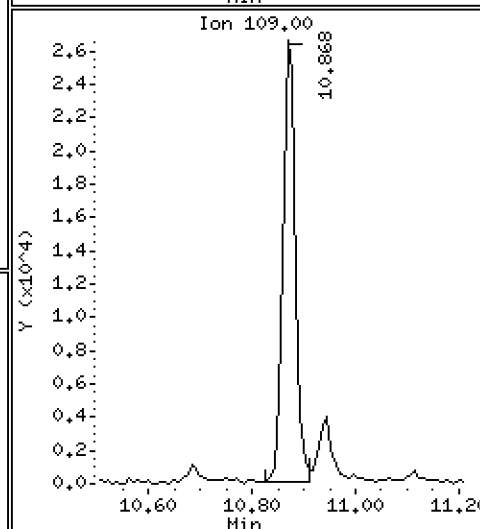
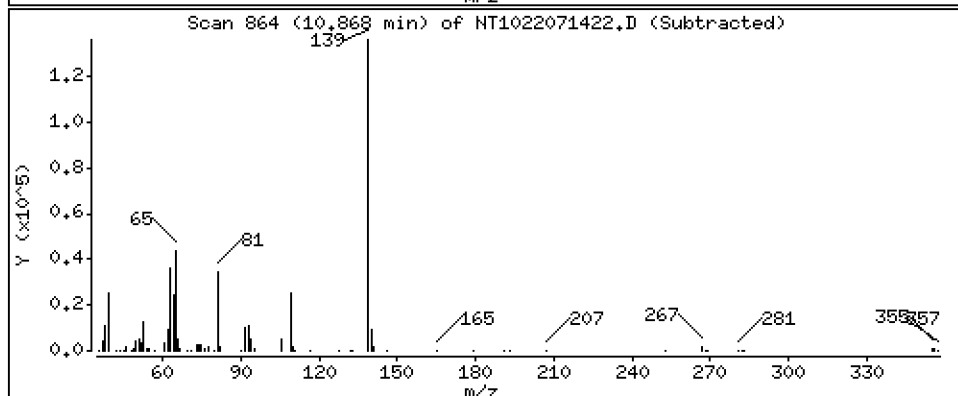
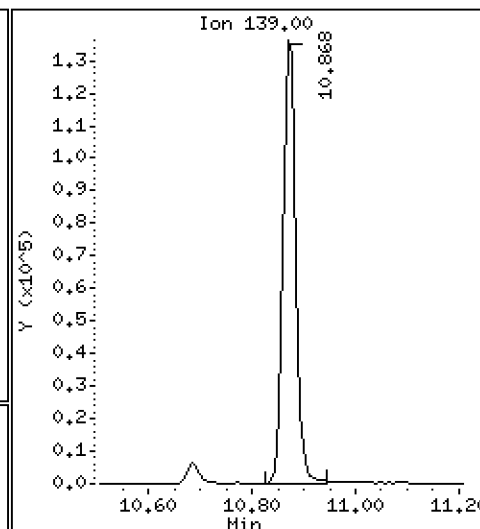
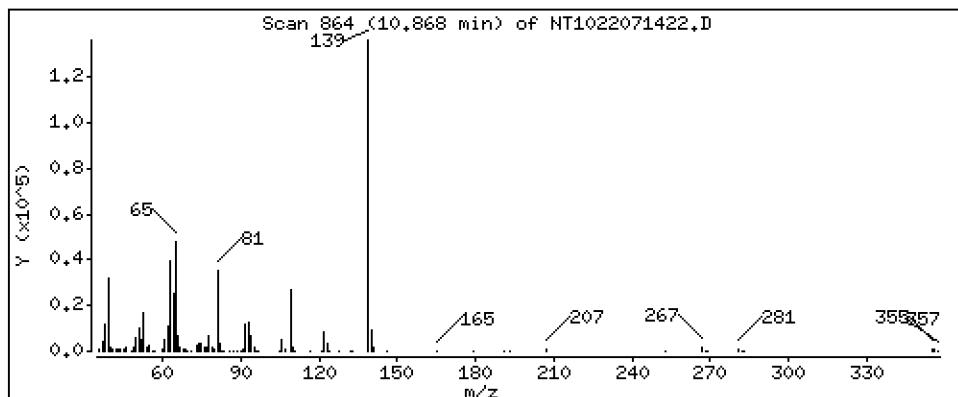
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,842 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

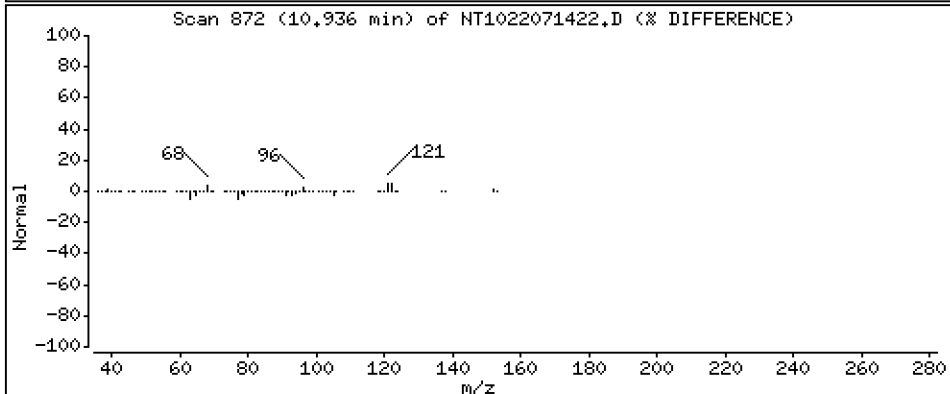
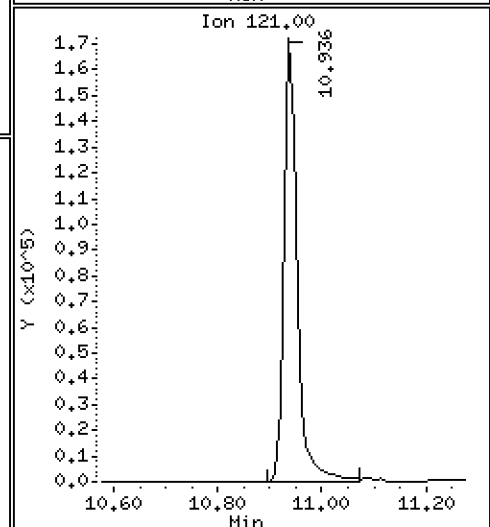
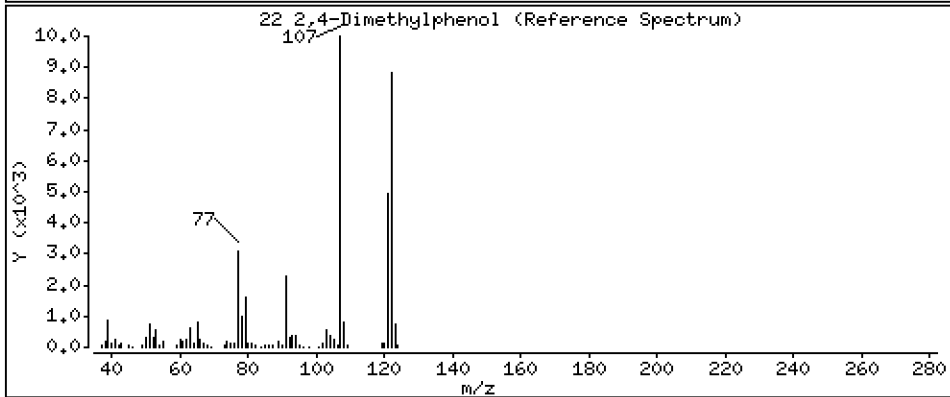
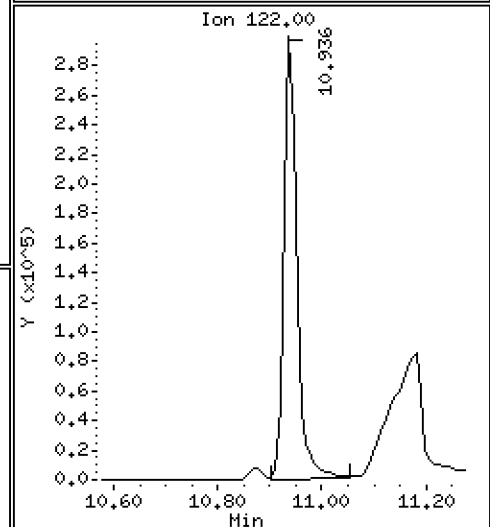
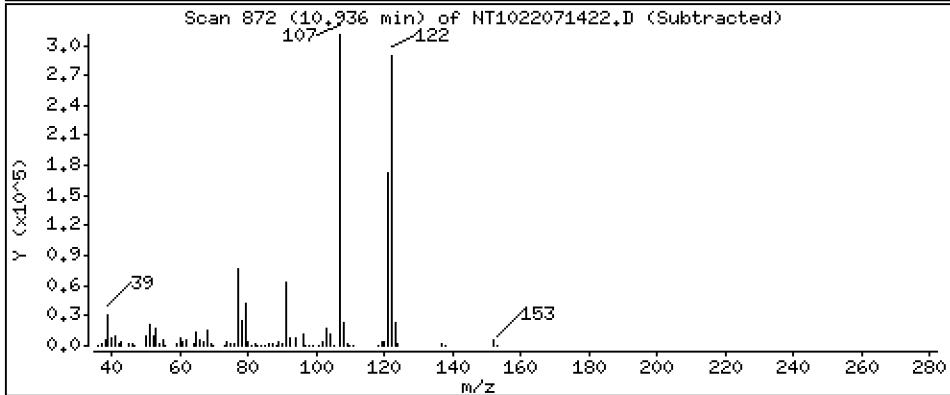
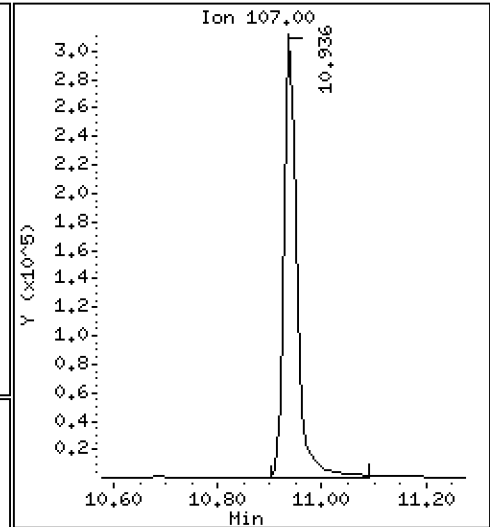
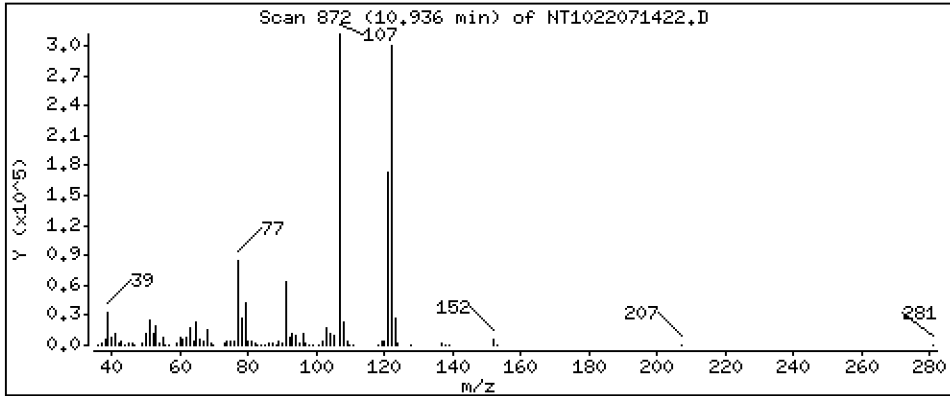
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 10,84 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

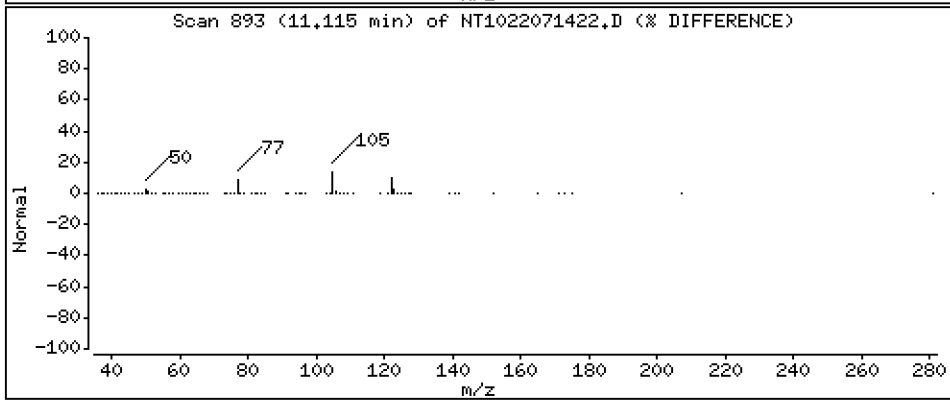
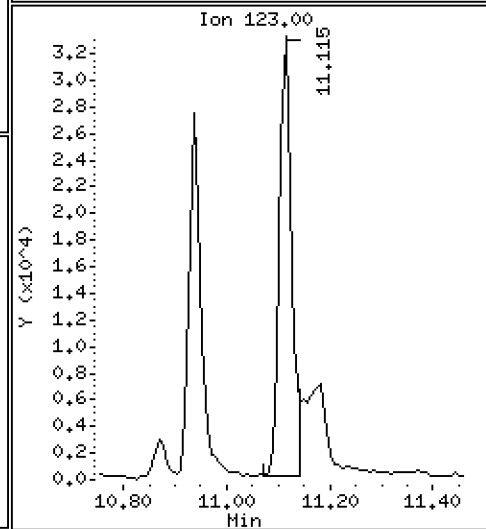
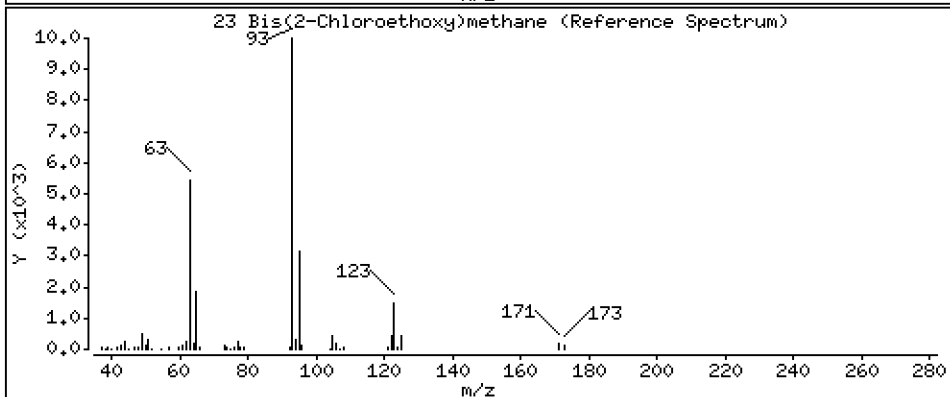
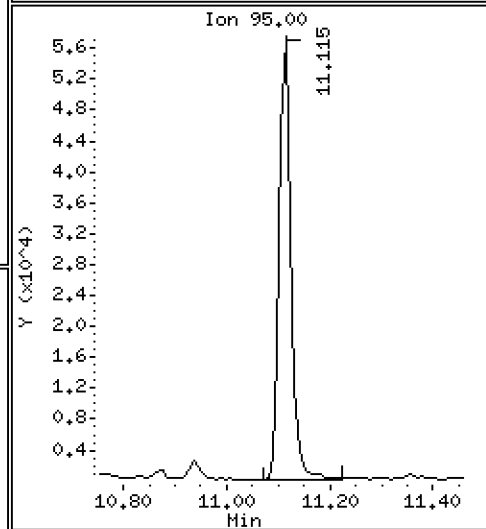
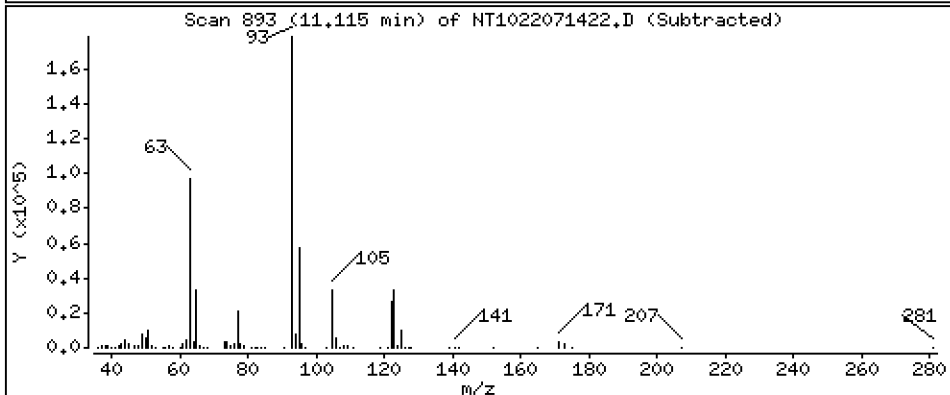
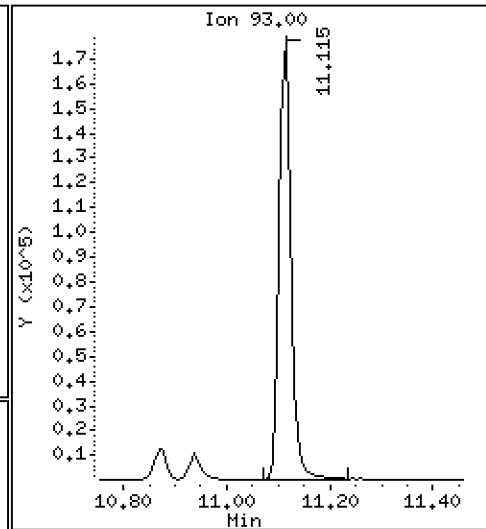
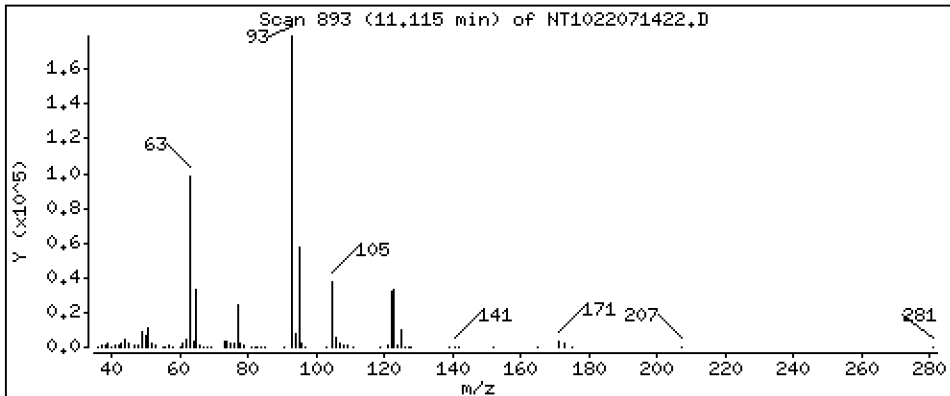
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,052 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

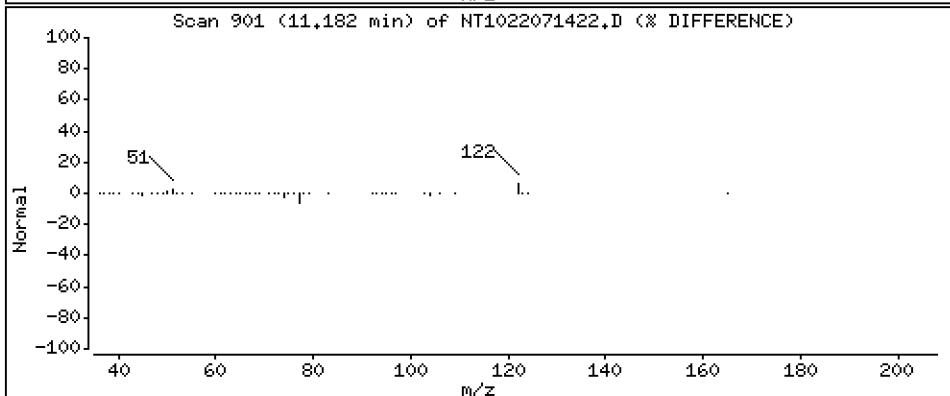
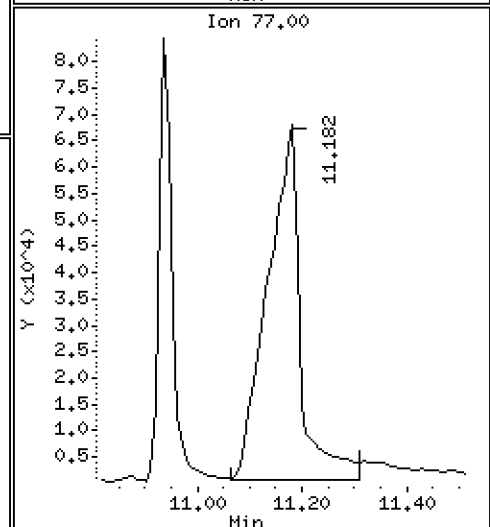
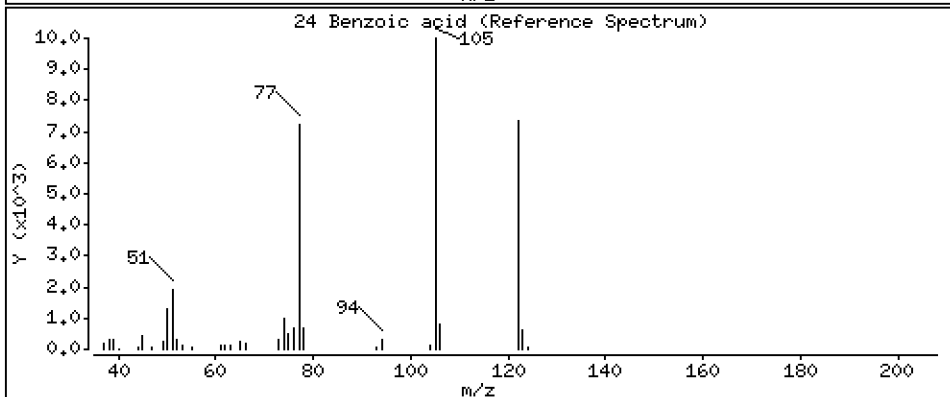
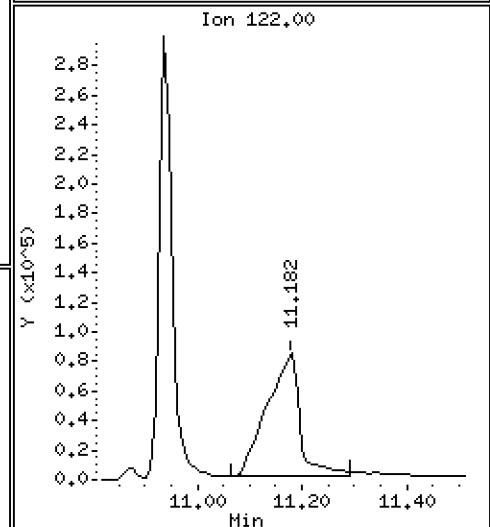
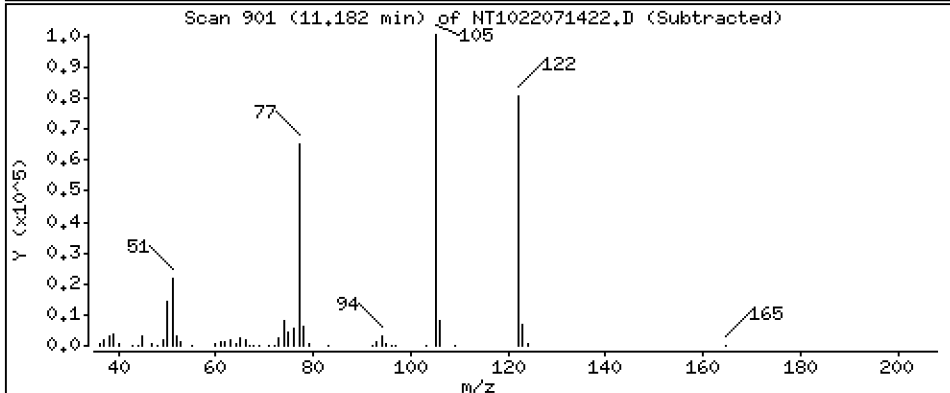
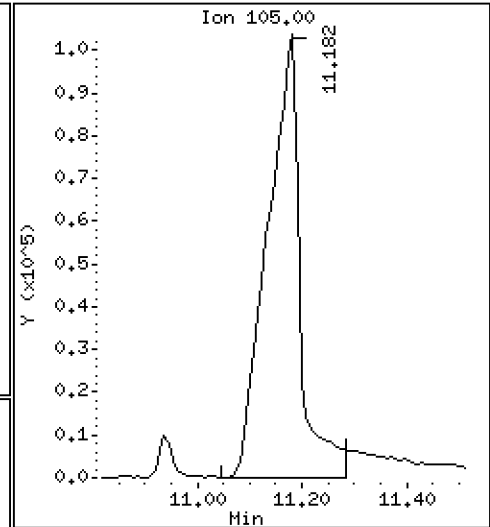
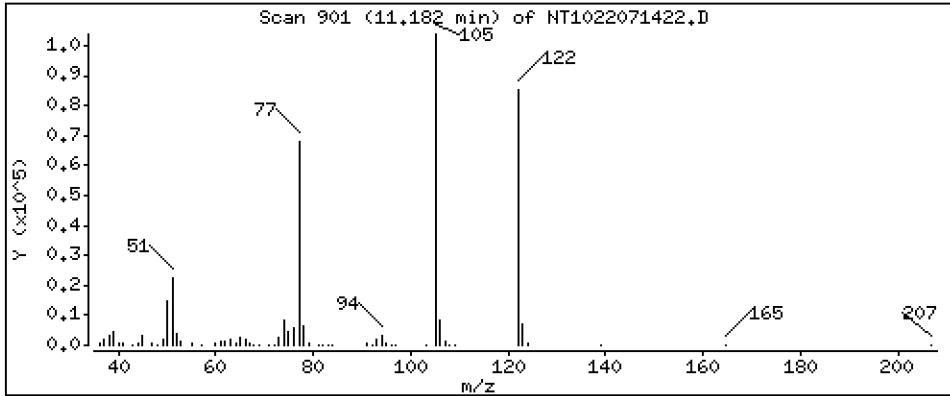
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 17,24 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

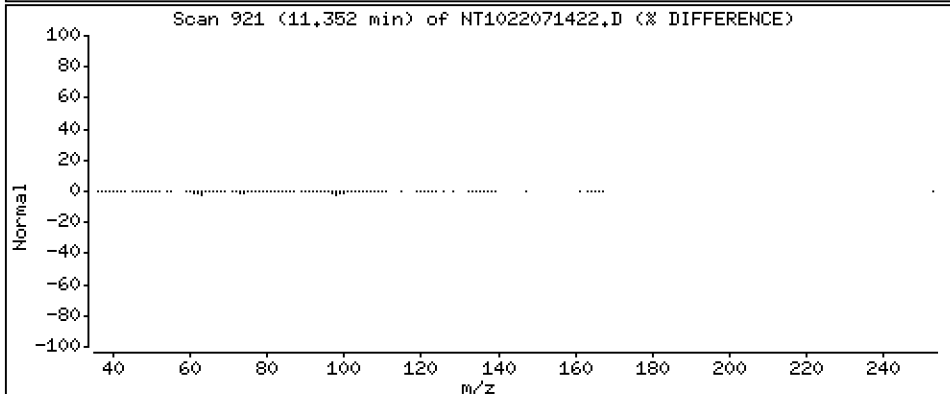
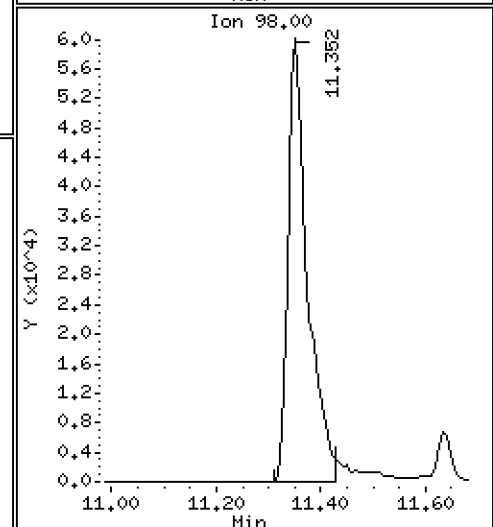
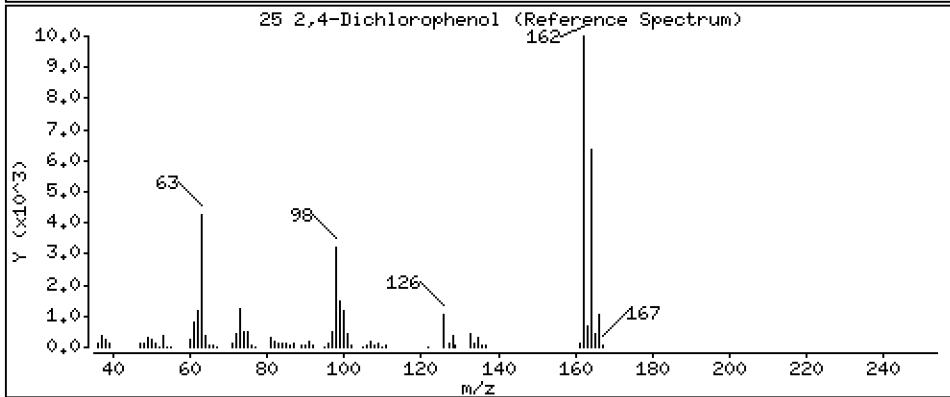
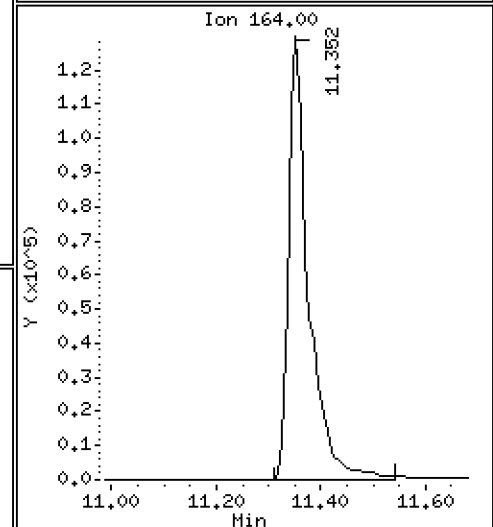
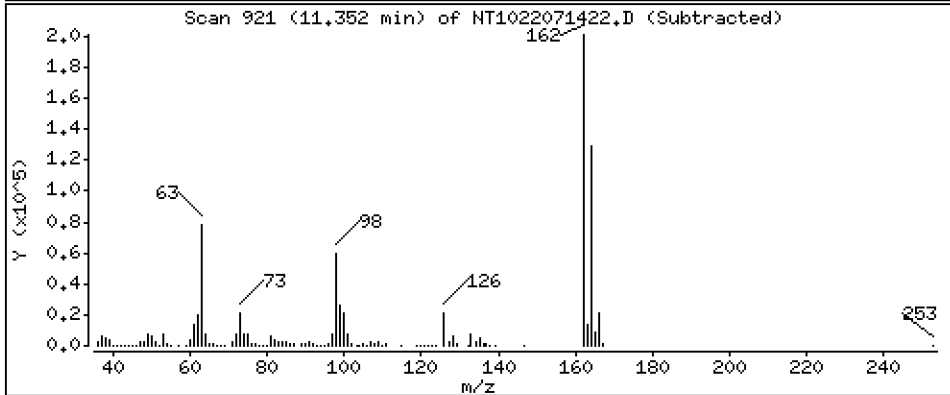
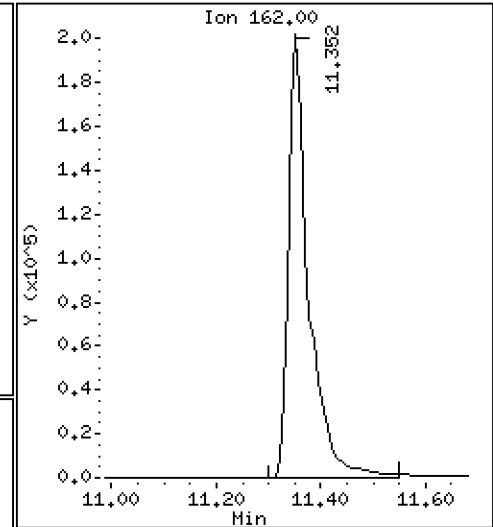
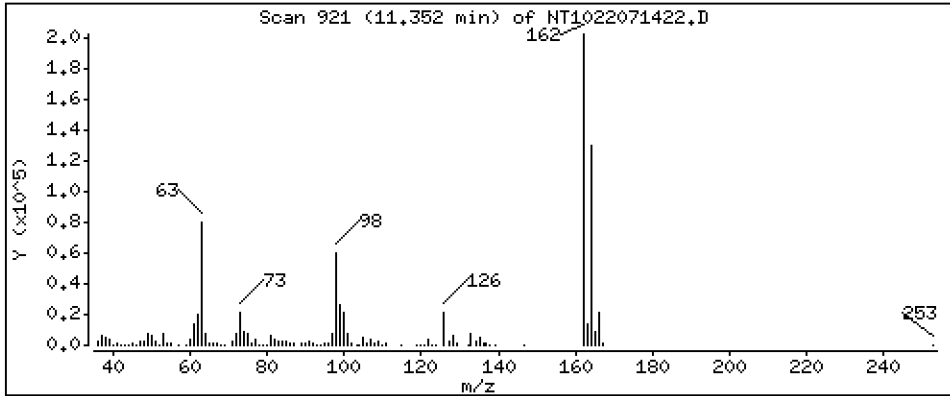
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 10,32 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

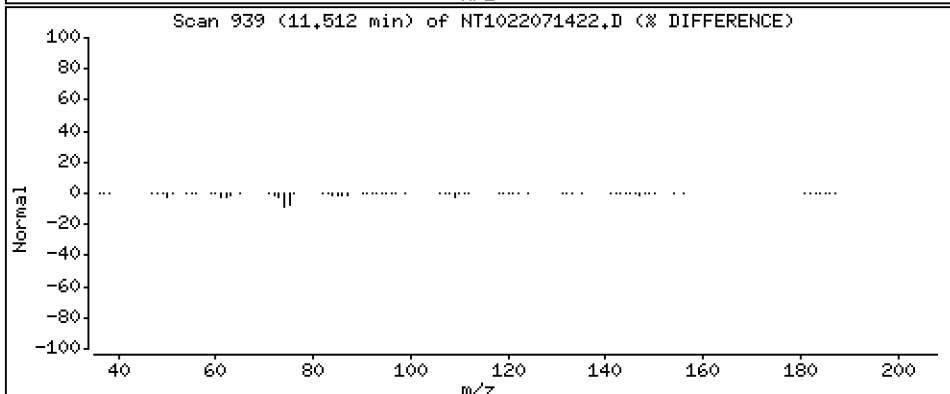
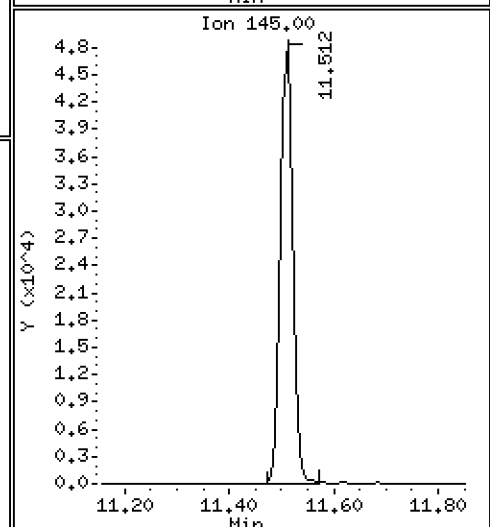
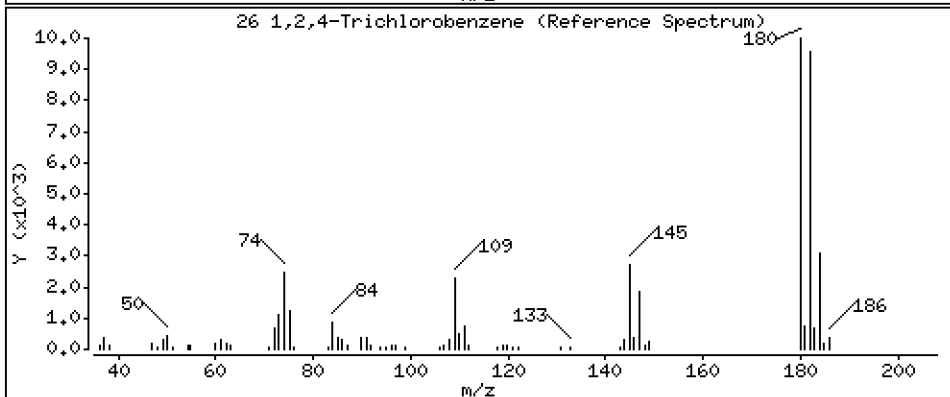
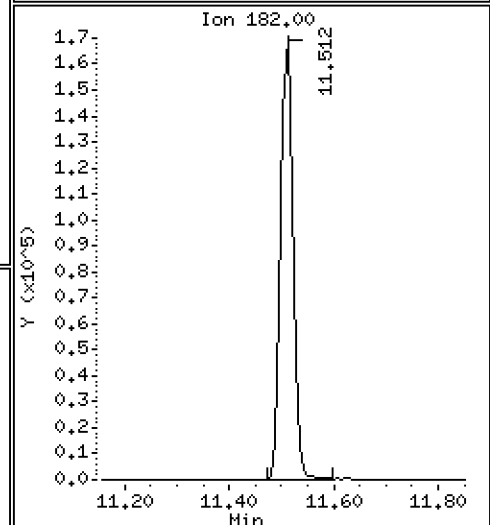
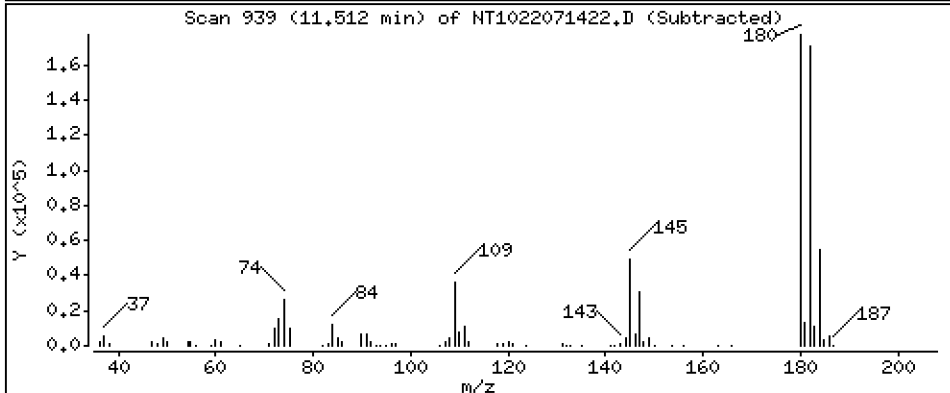
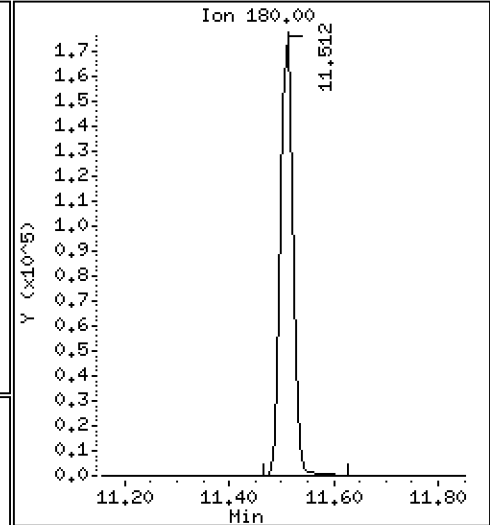
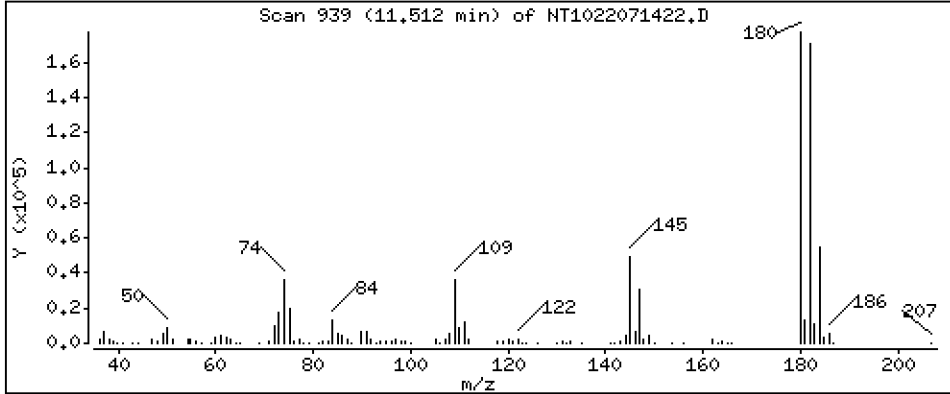
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 5,149 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

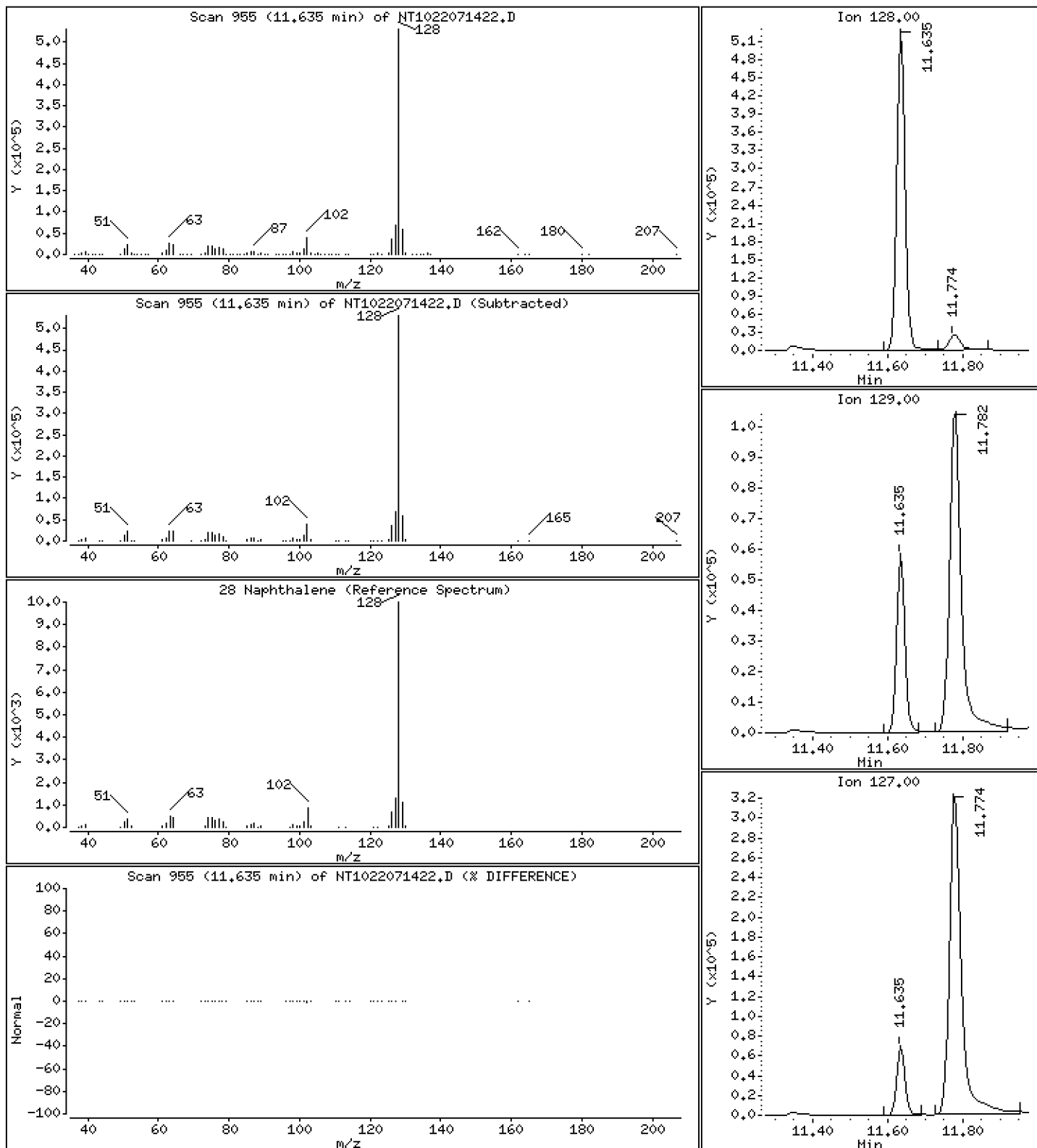
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 5.484 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

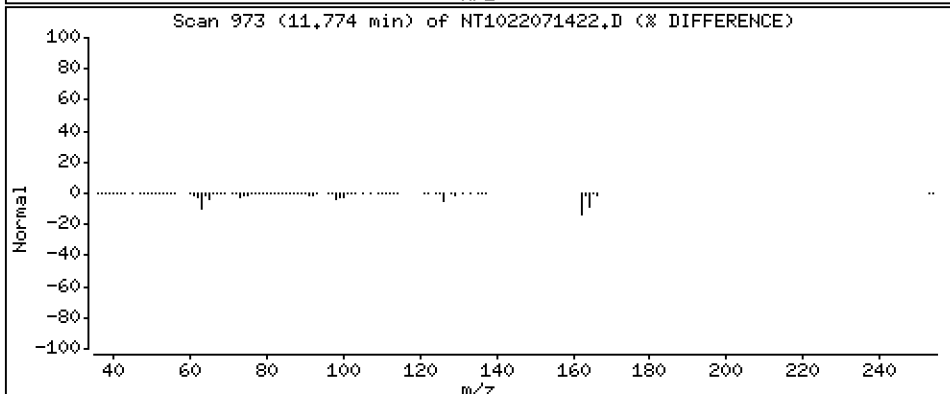
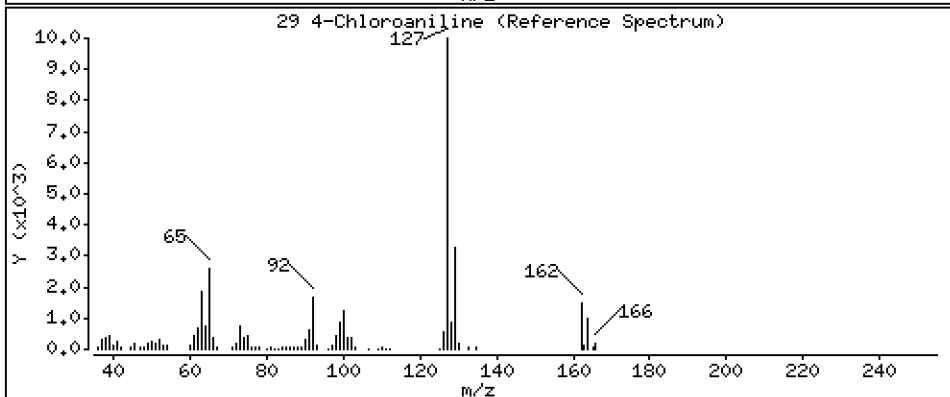
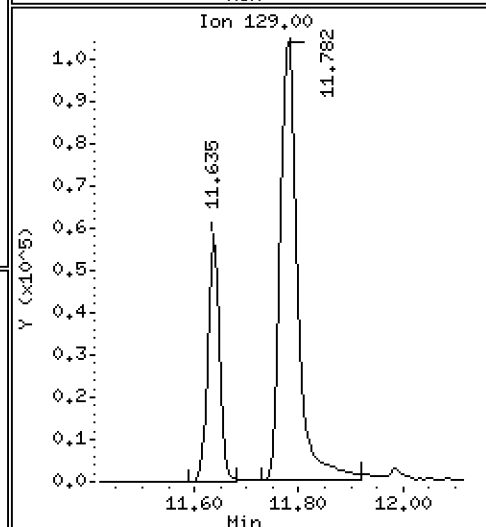
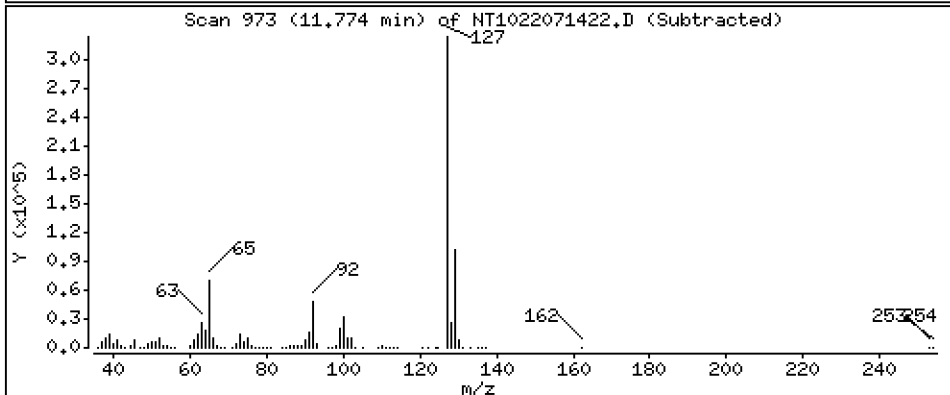
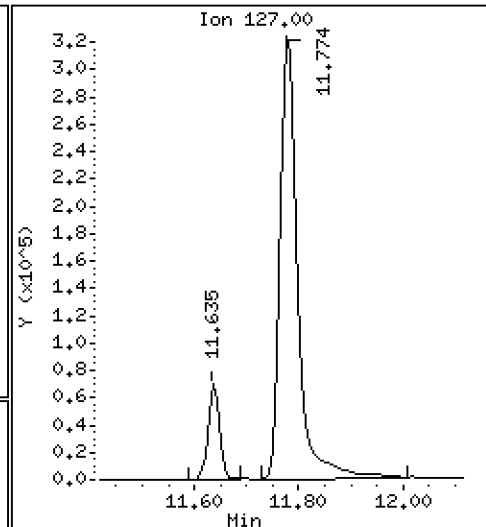
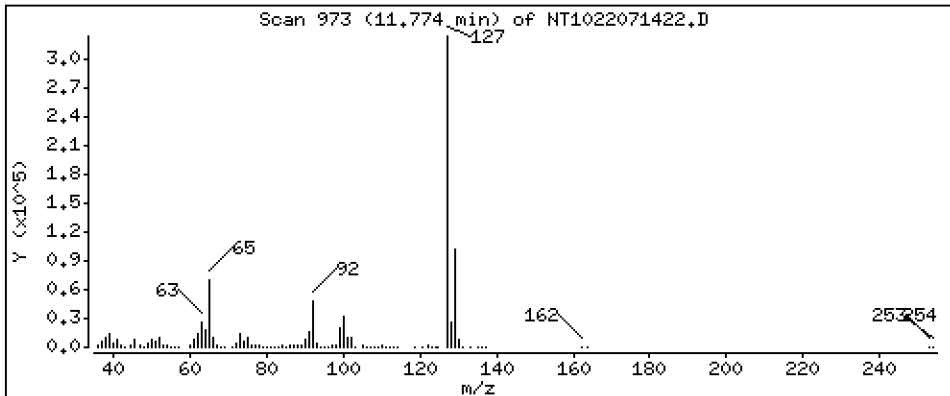
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 11,51 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

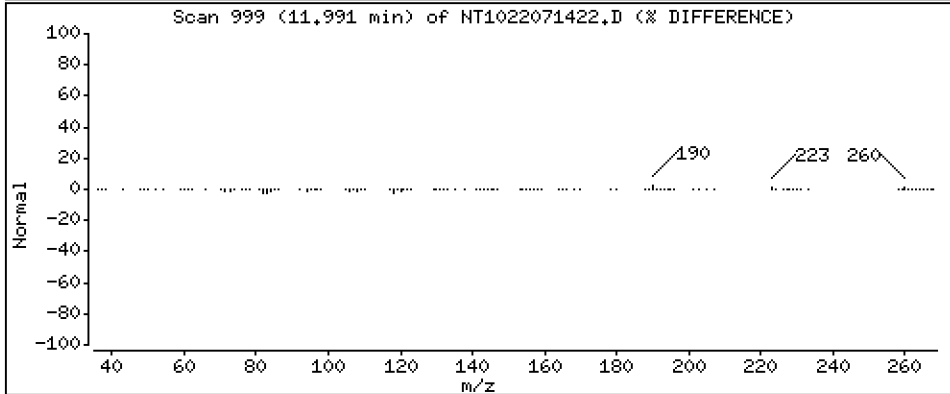
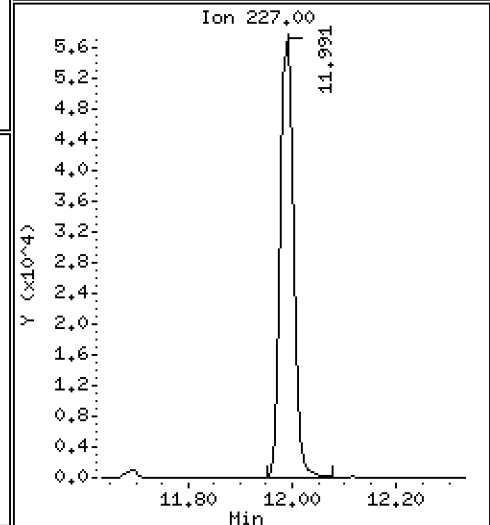
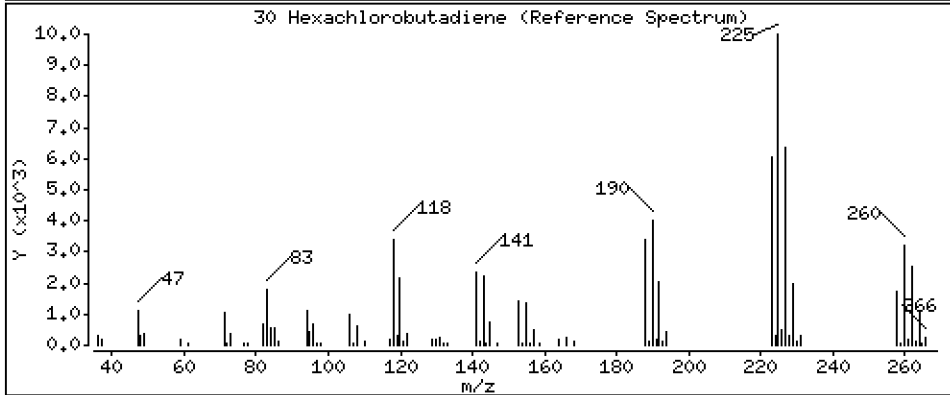
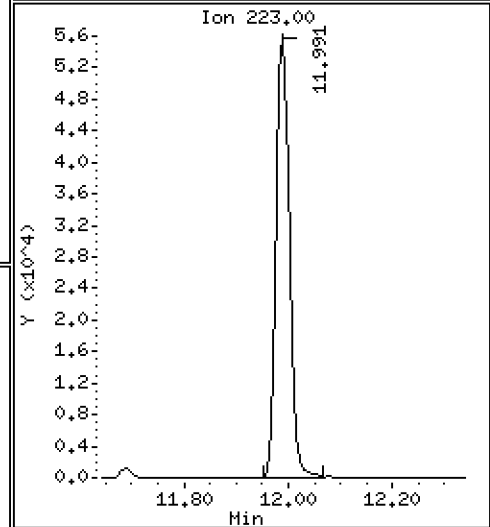
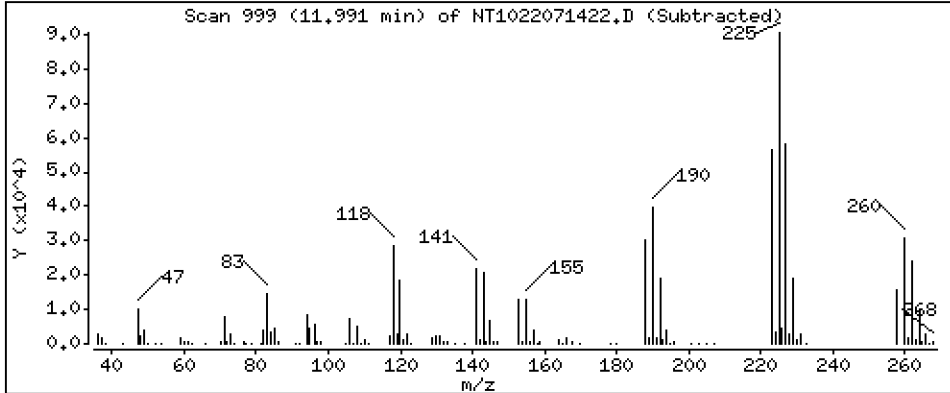
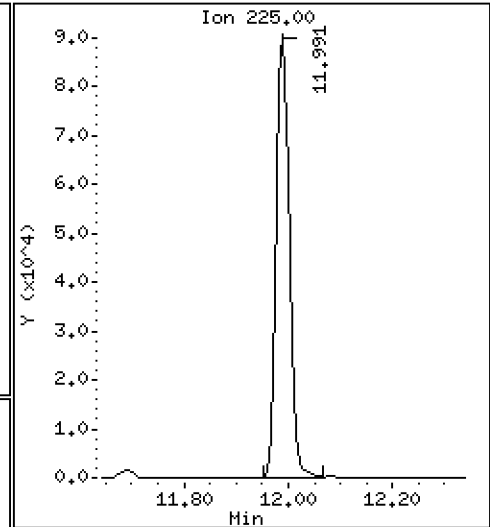
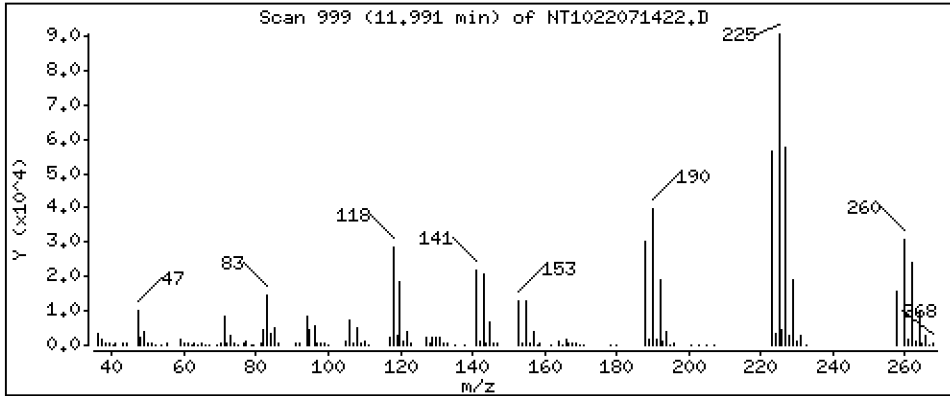
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 5,877 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

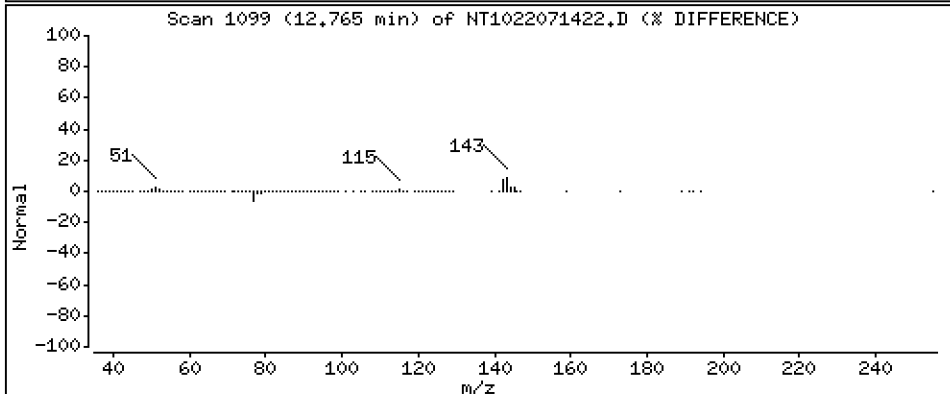
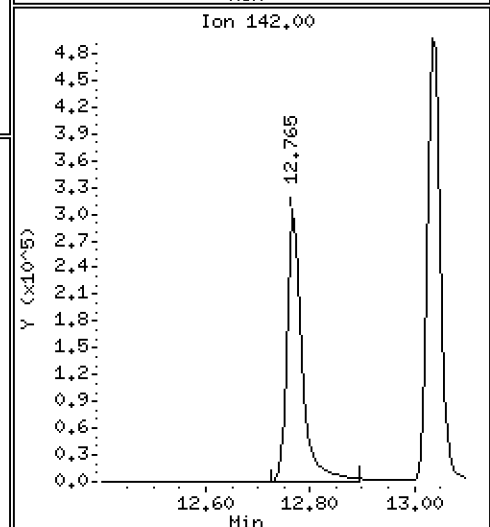
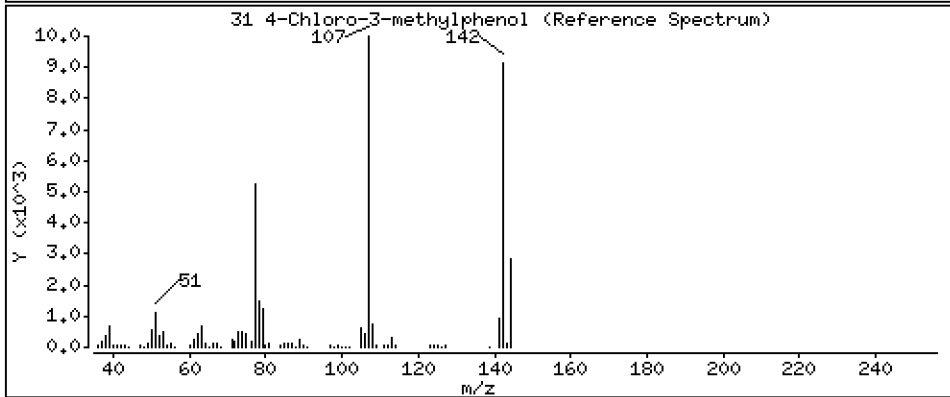
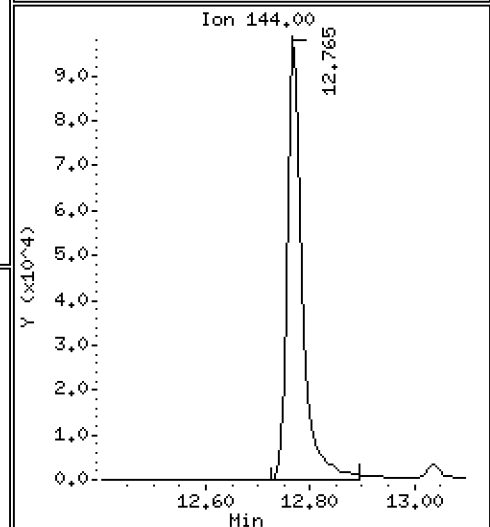
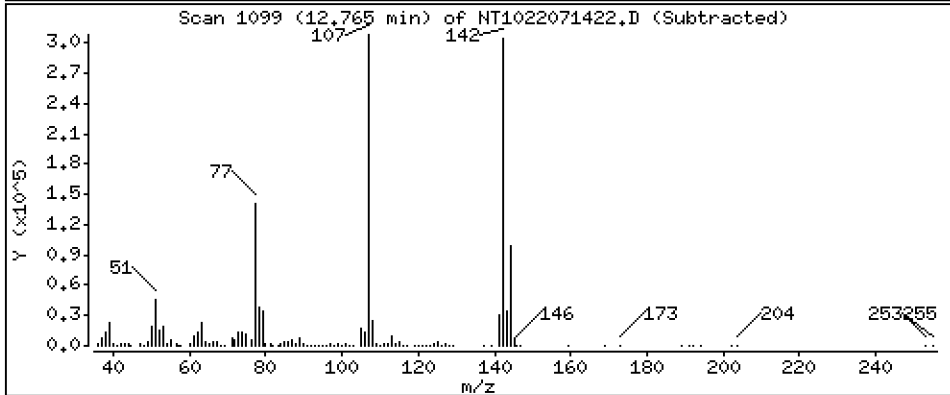
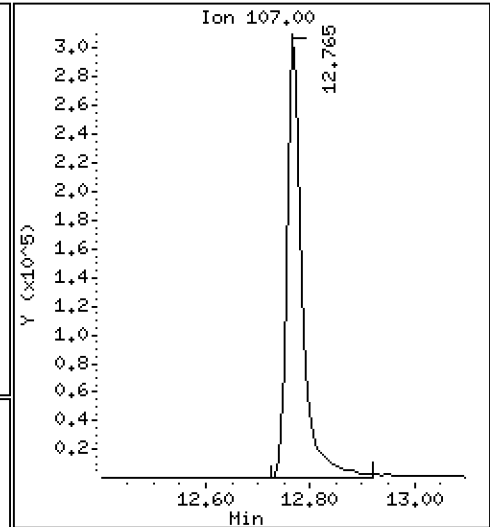
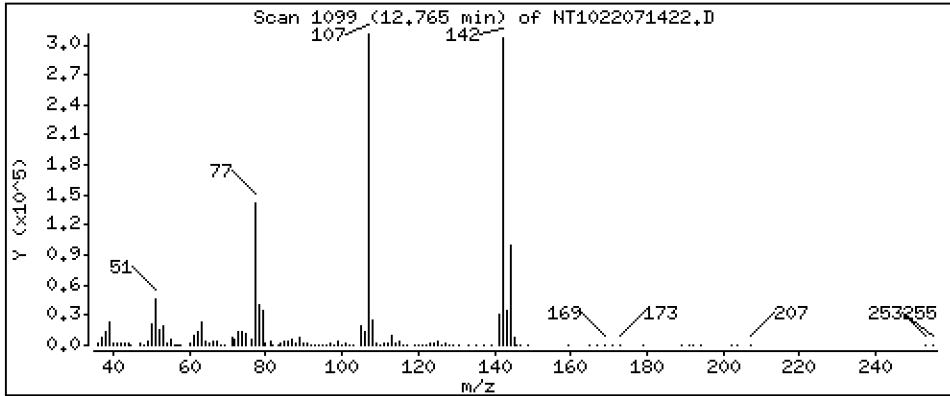
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 10,58 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

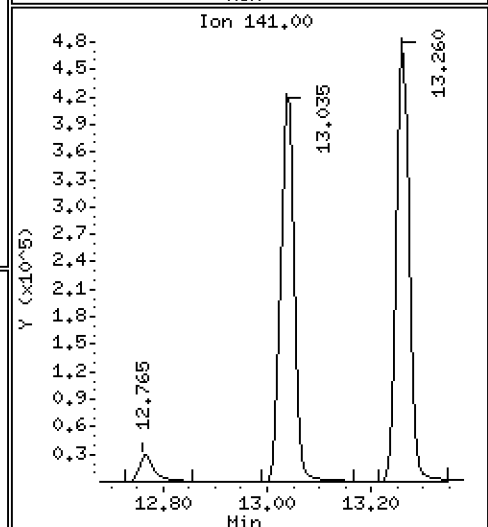
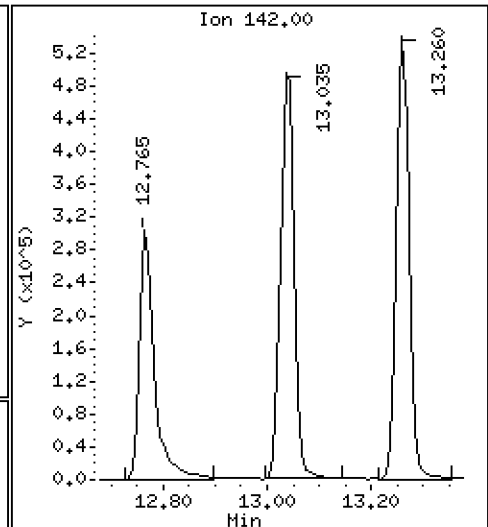
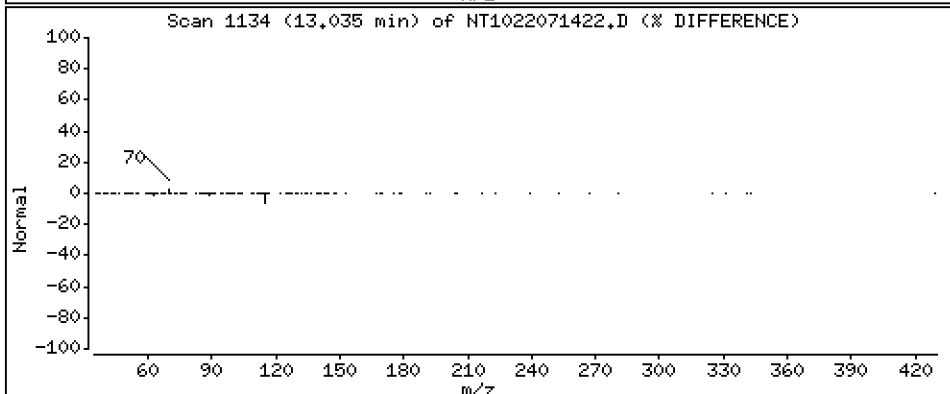
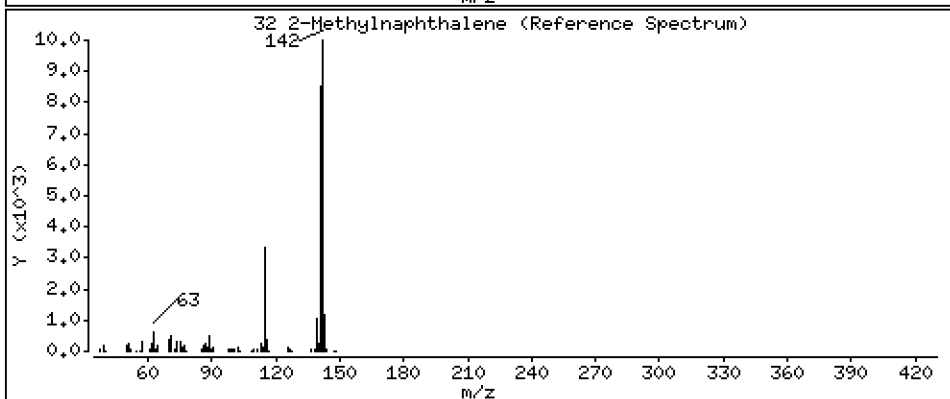
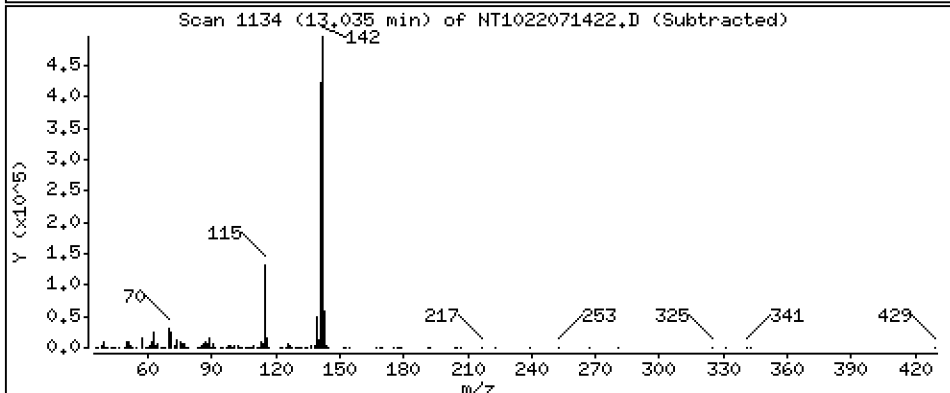
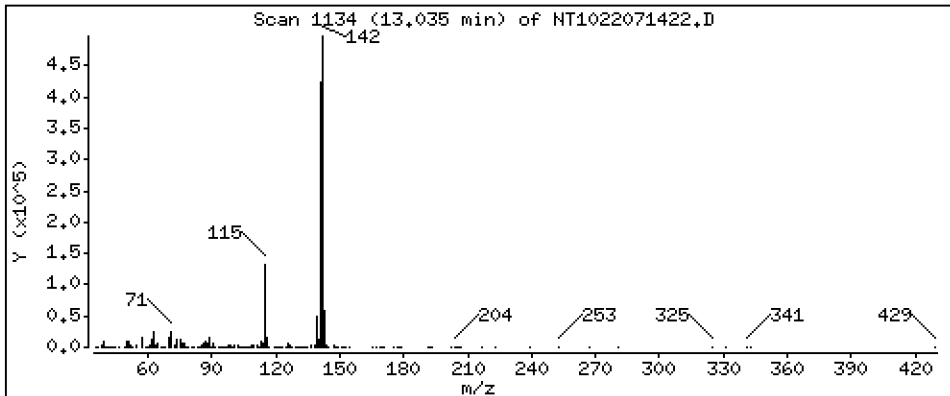
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 5,860 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

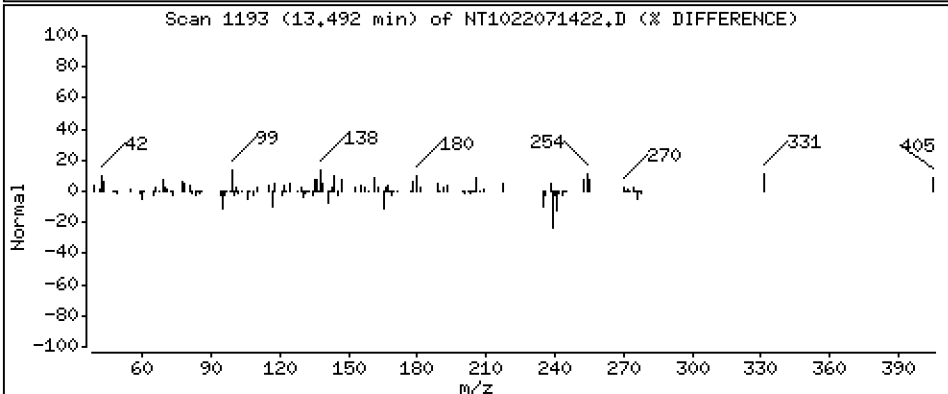
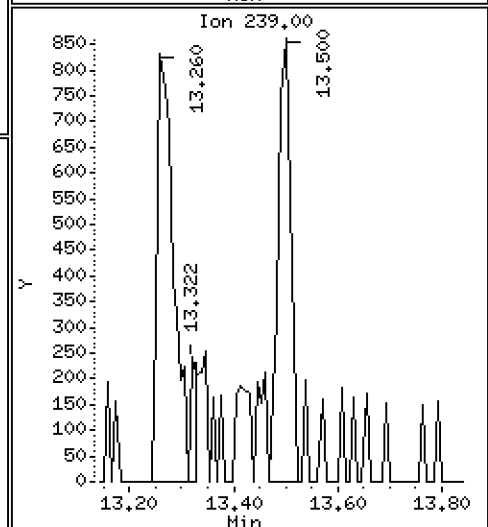
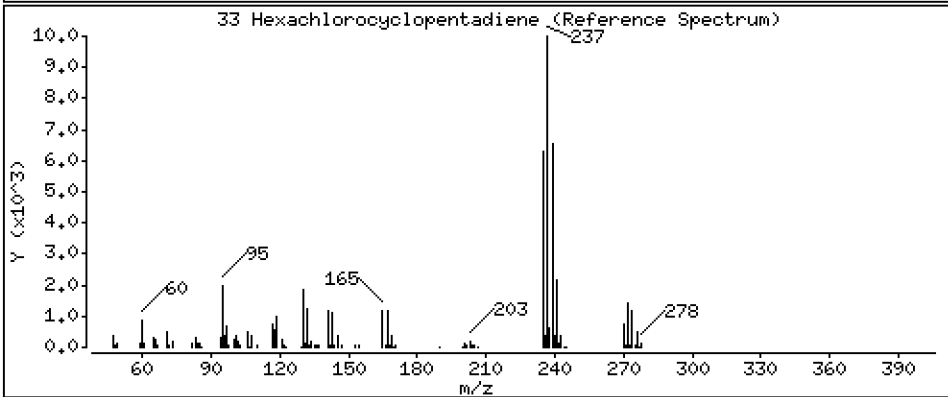
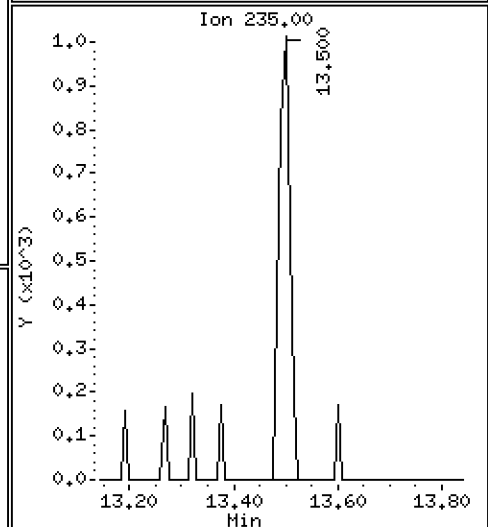
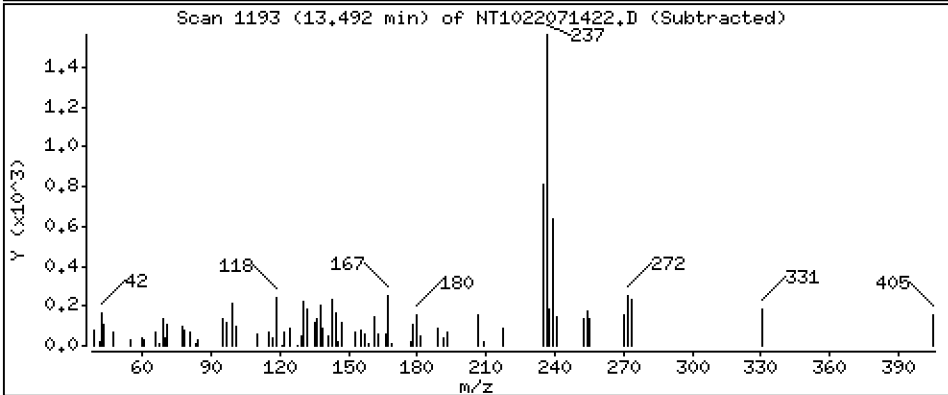
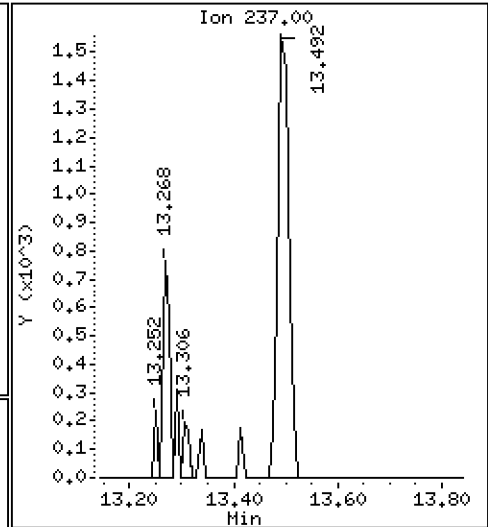
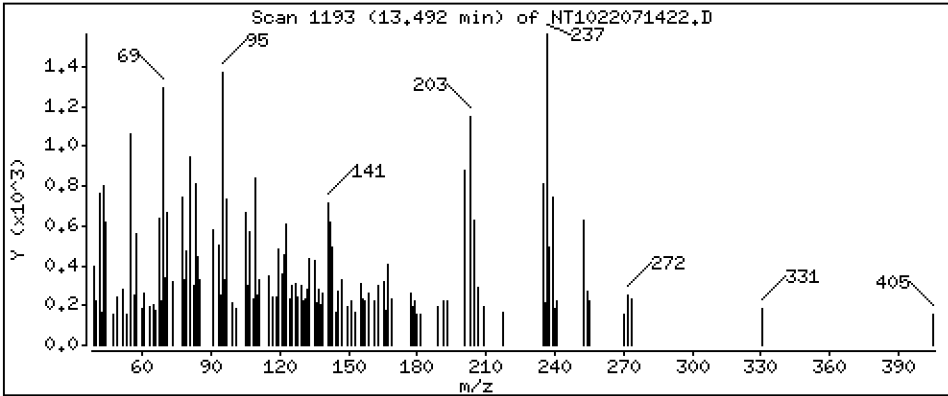
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,1045 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

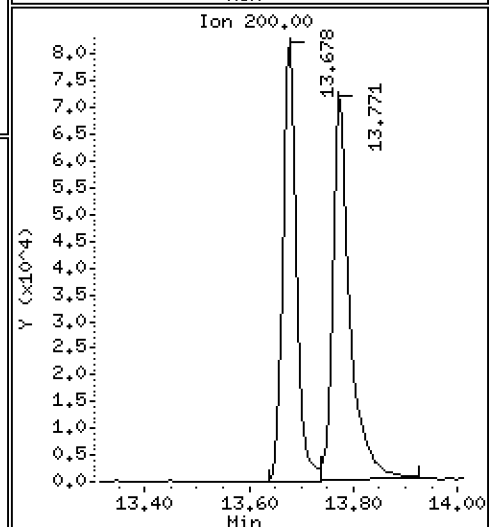
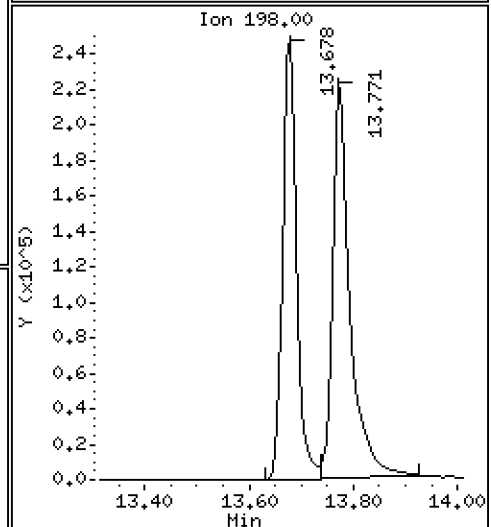
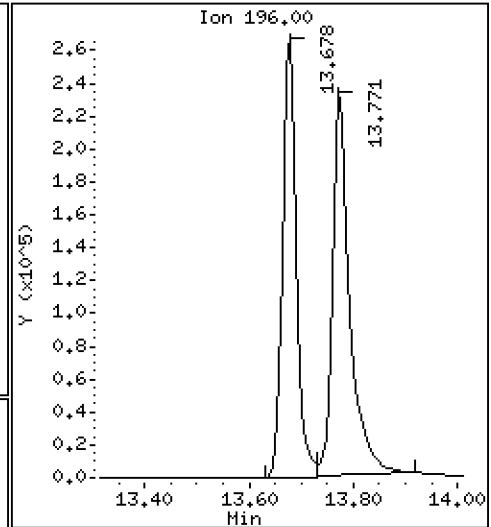
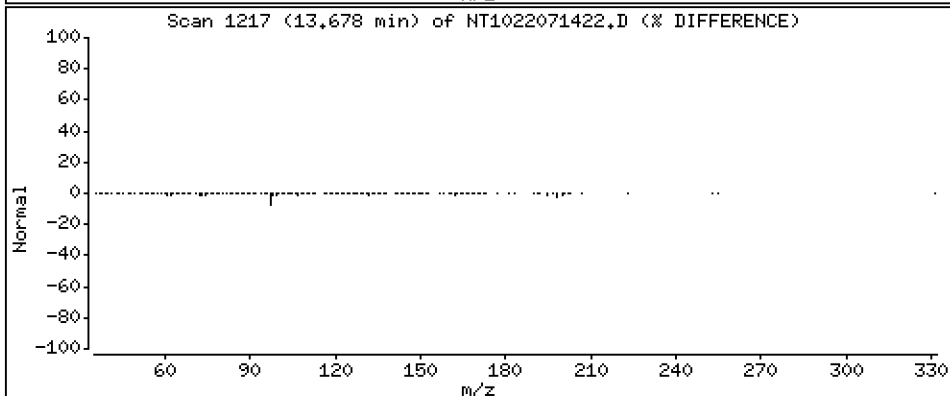
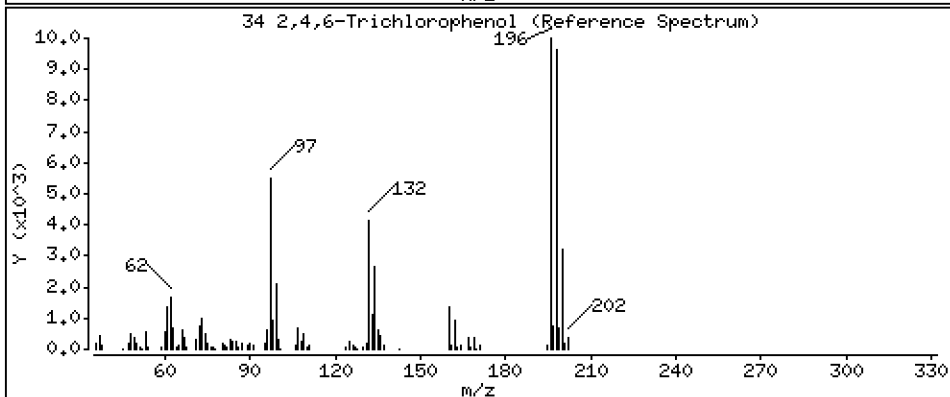
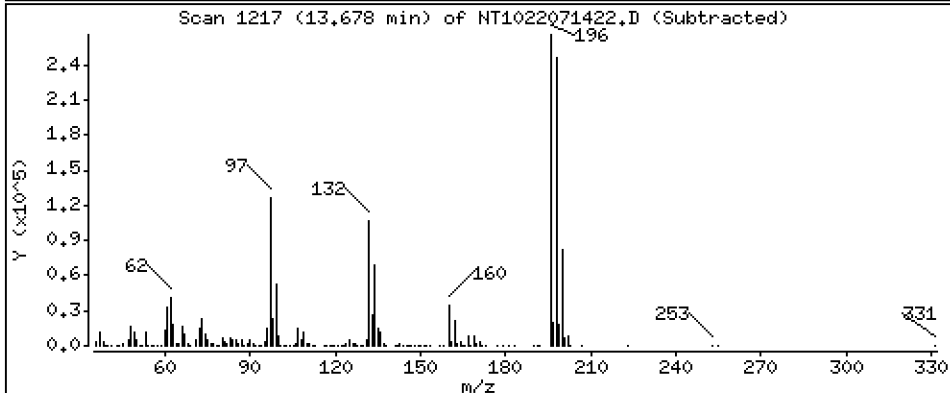
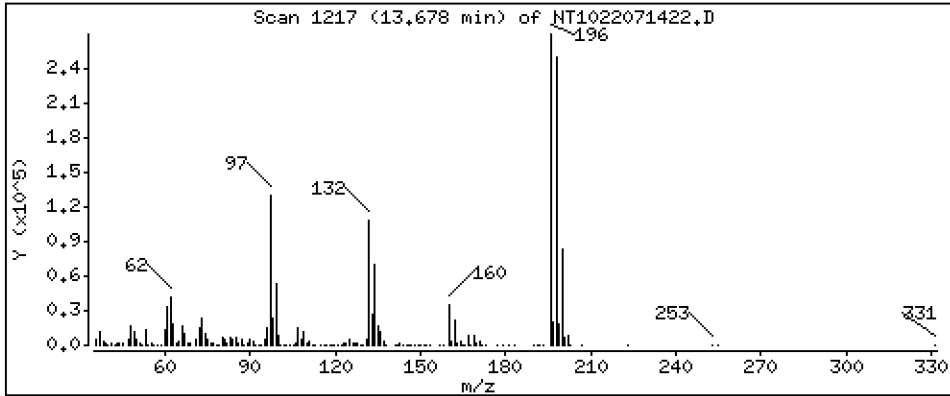
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 12,14 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

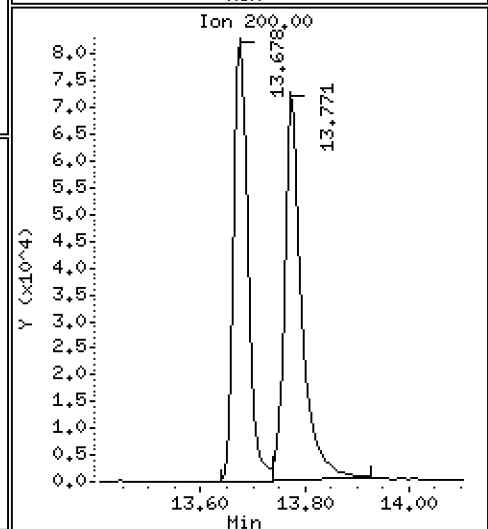
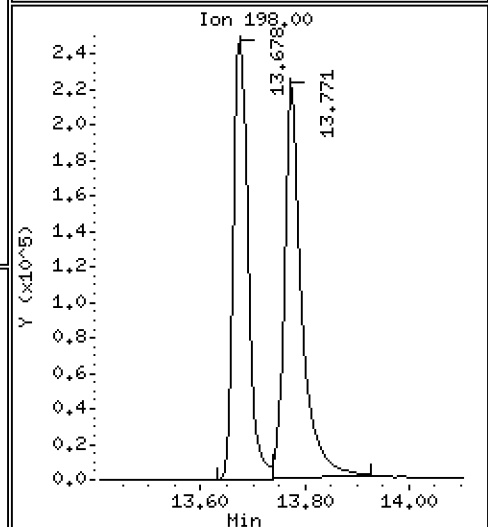
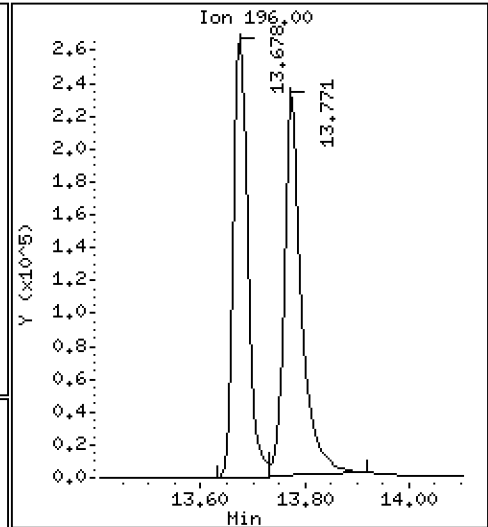
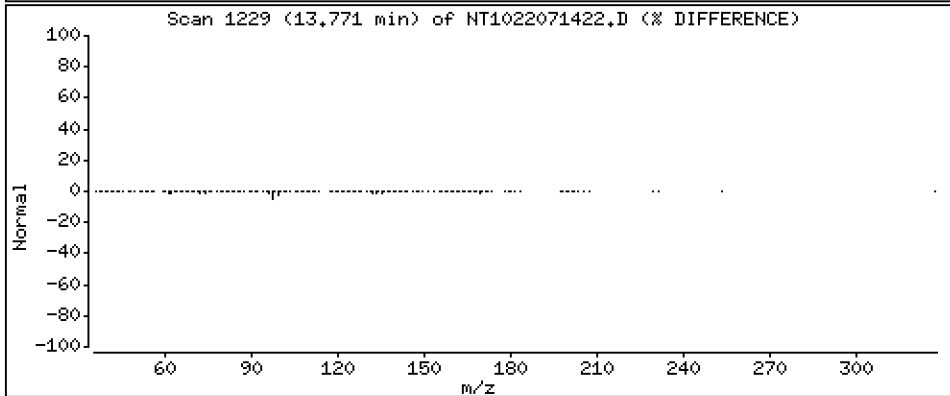
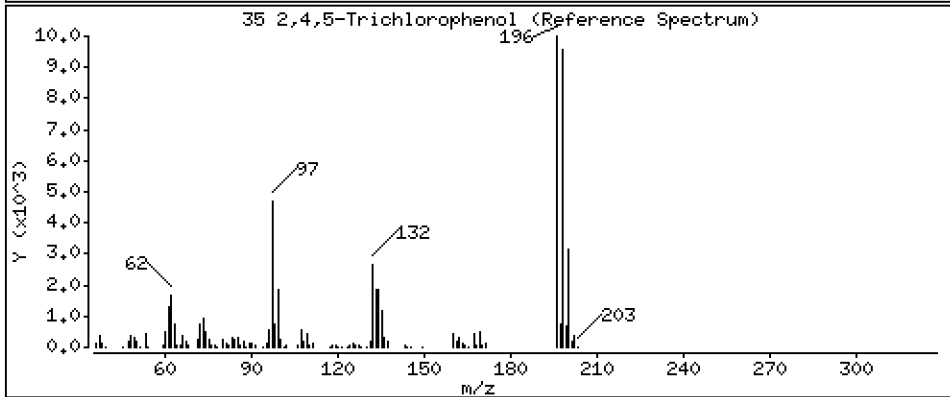
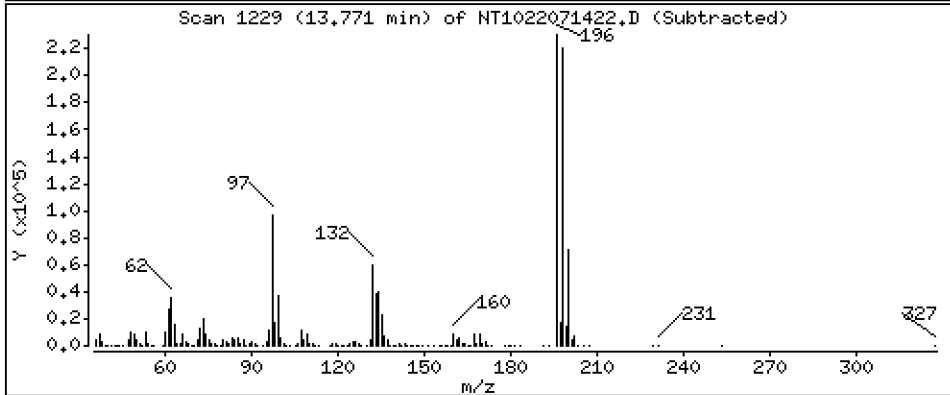
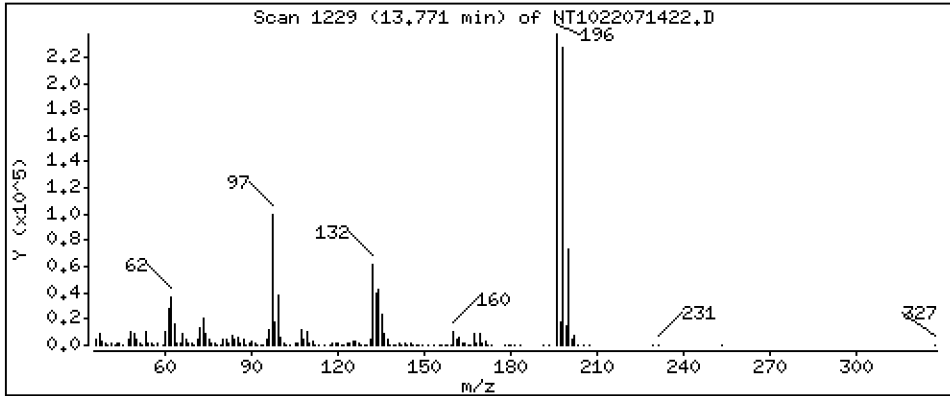
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 11,20 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

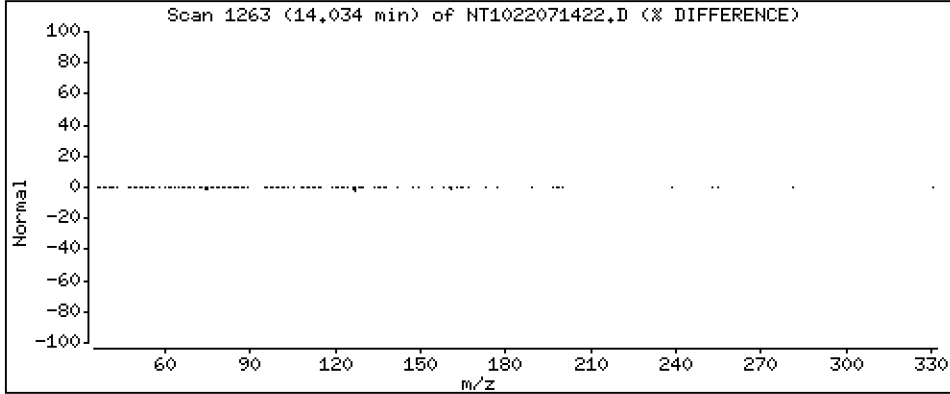
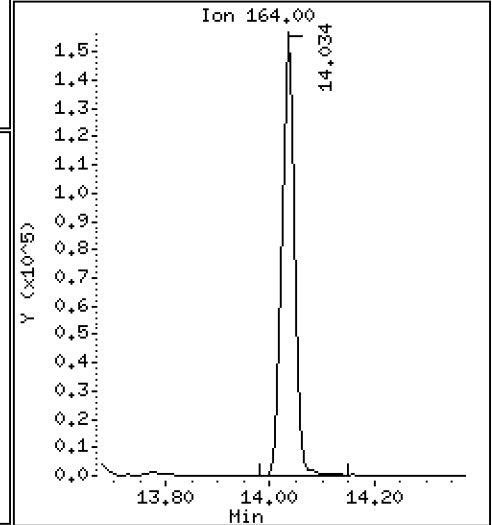
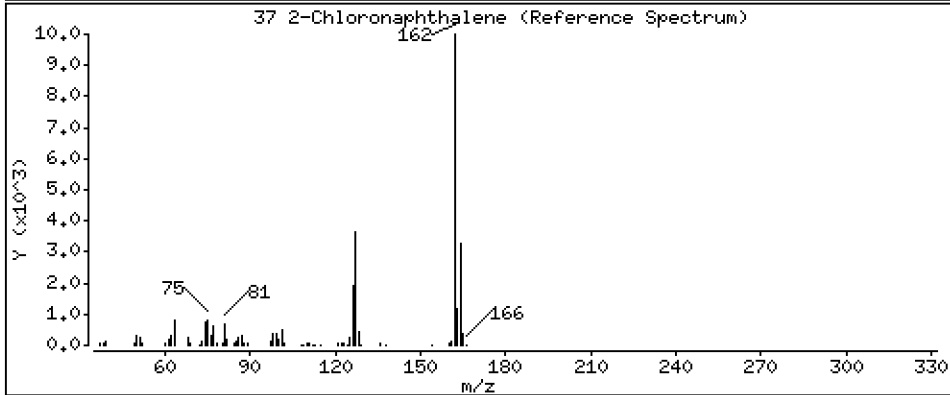
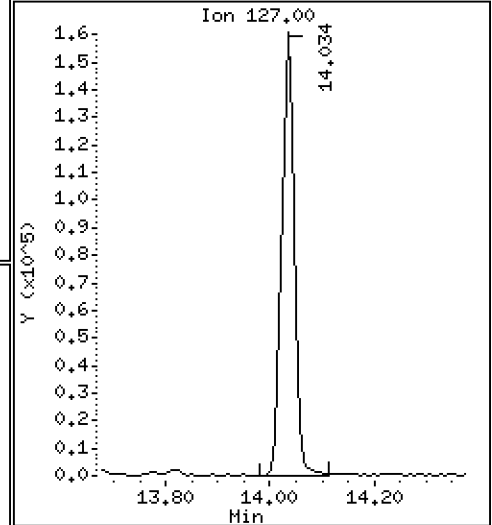
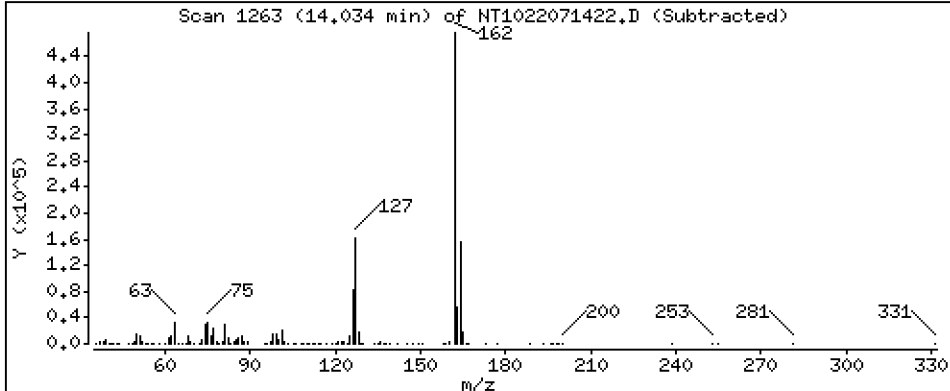
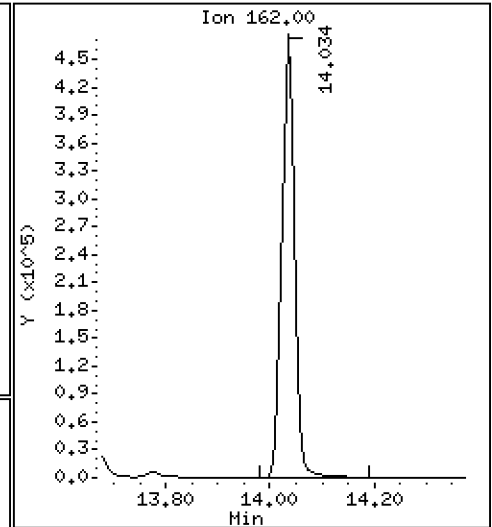
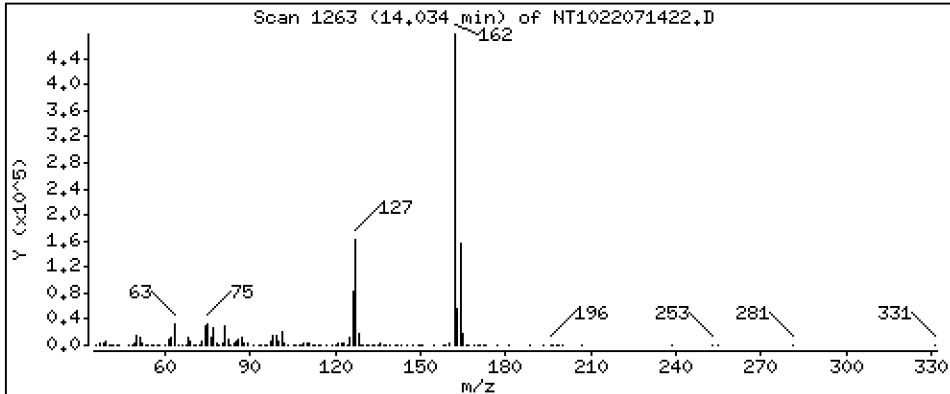
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 5,494 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

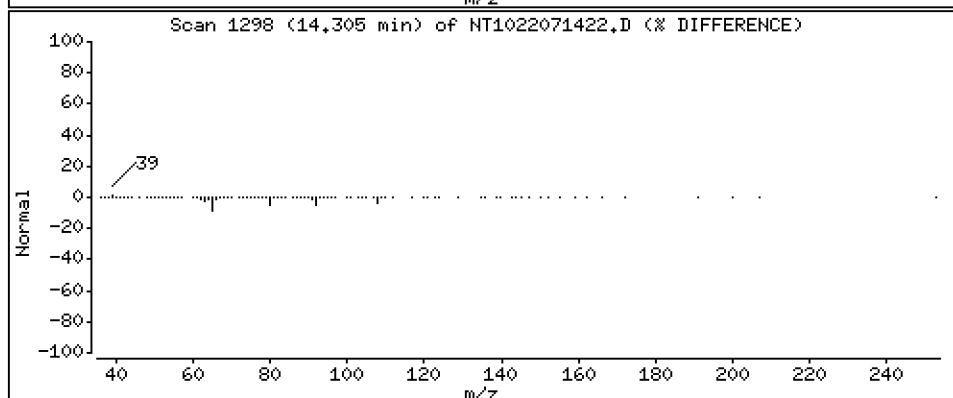
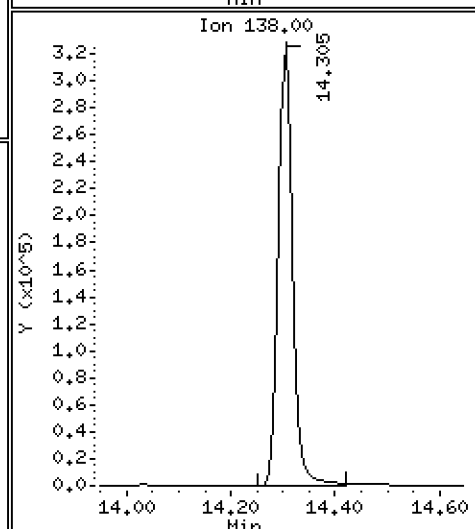
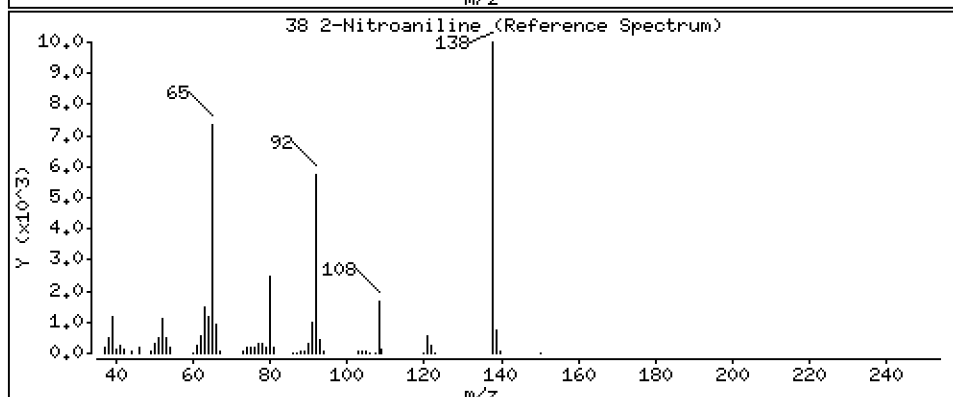
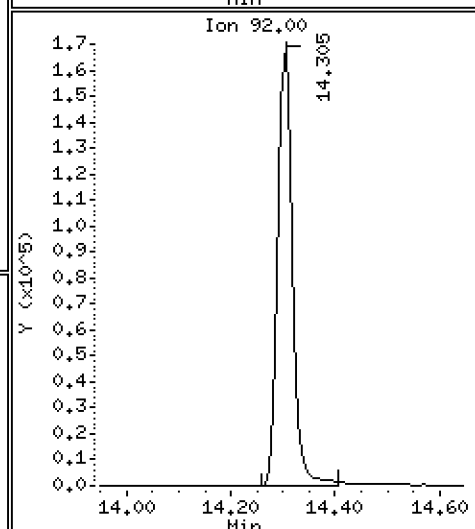
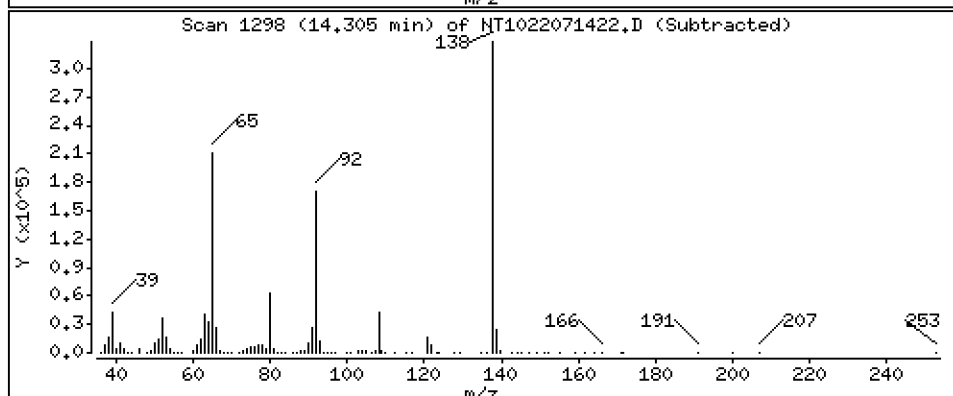
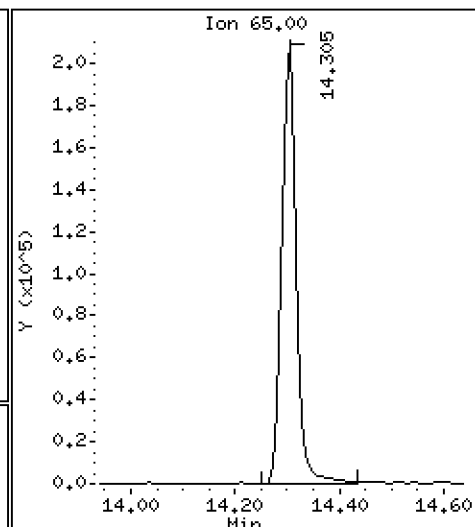
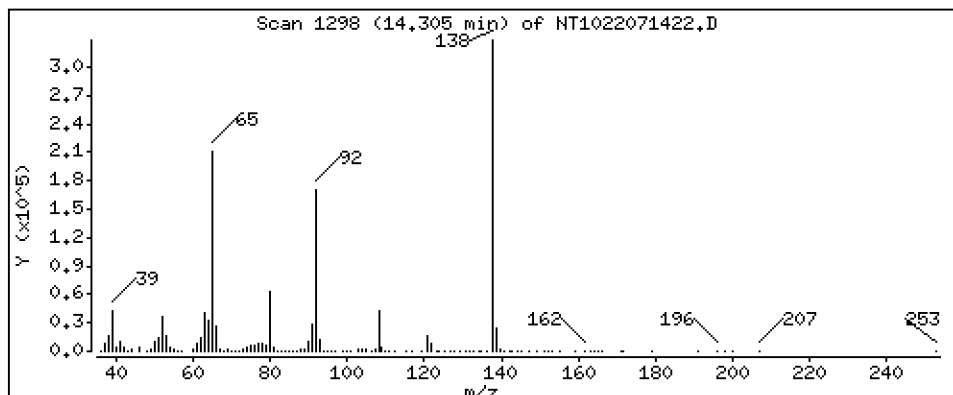
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 10,04 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

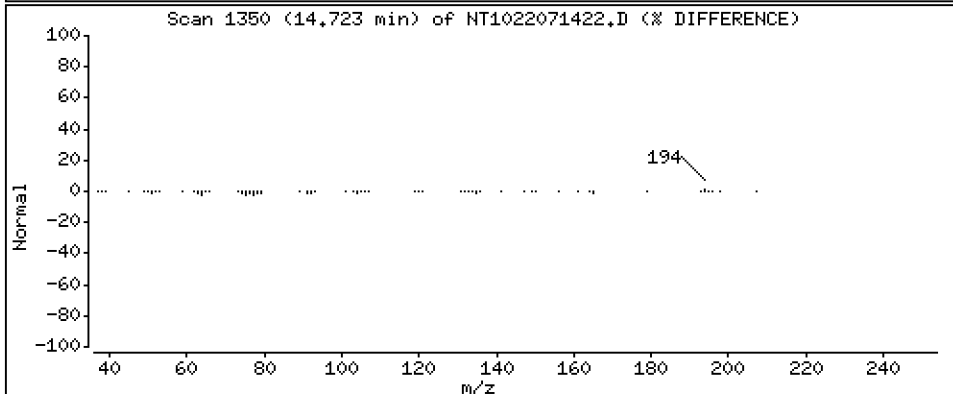
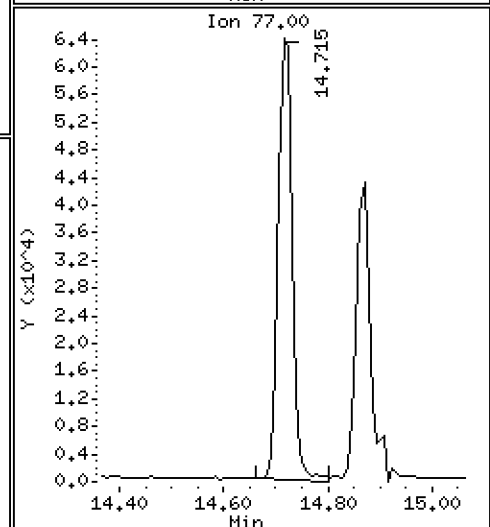
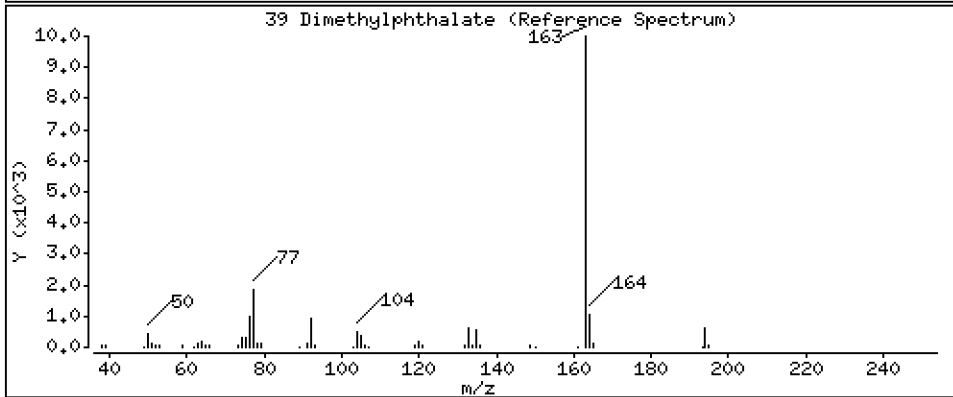
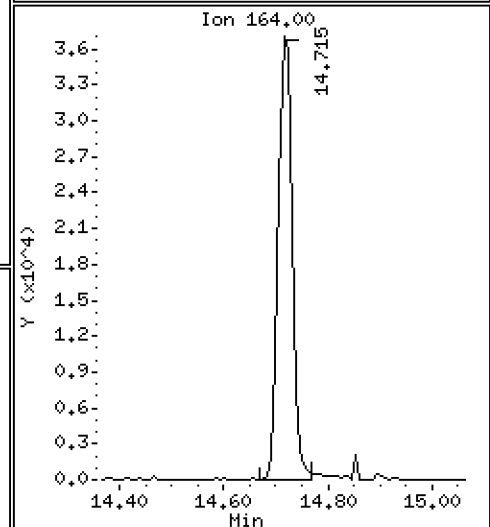
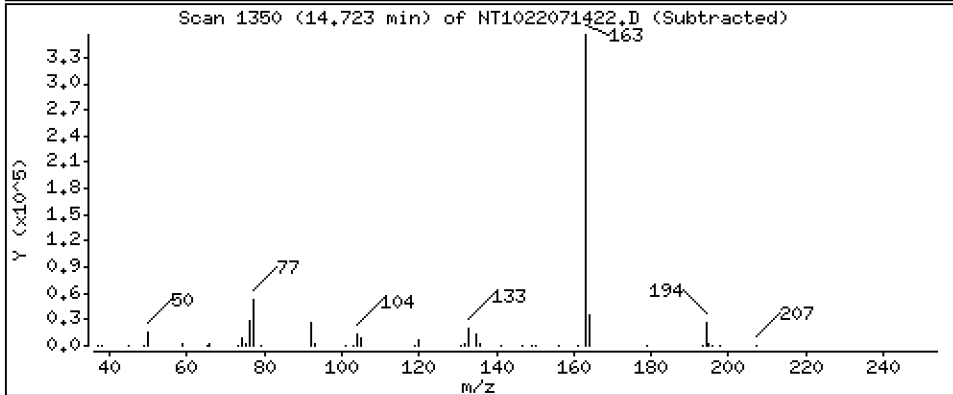
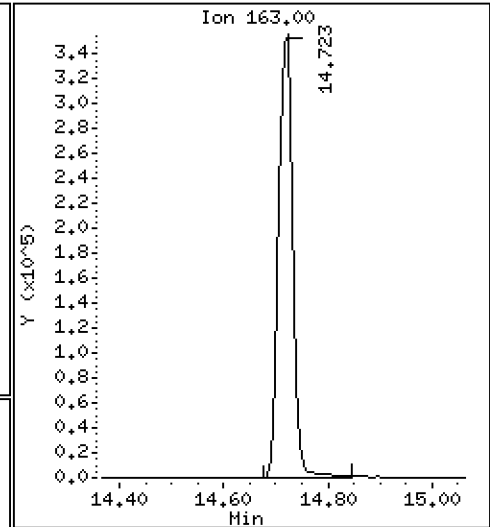
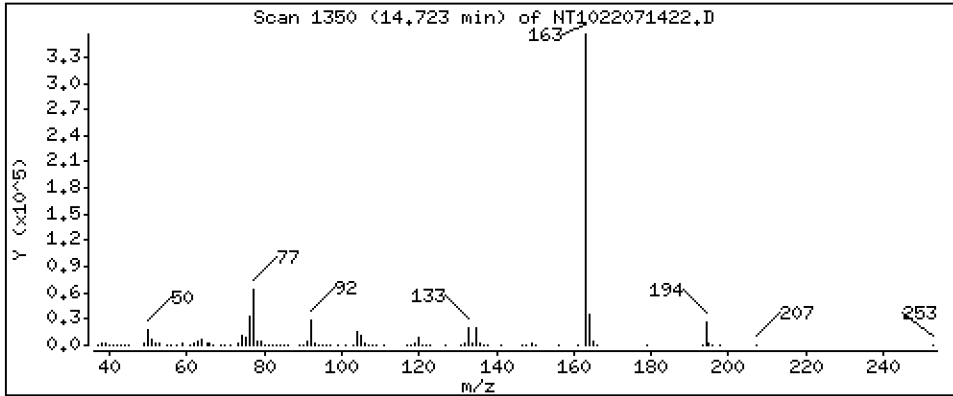
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,082 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

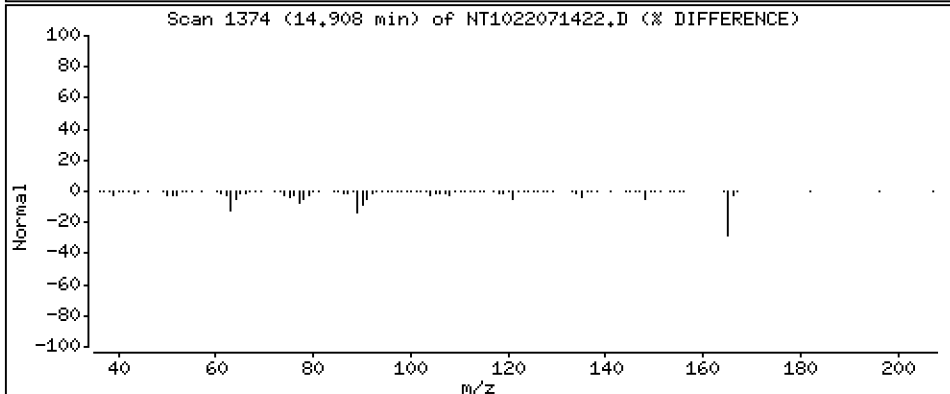
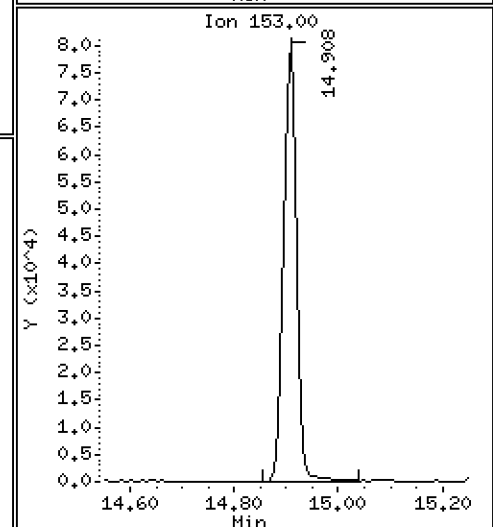
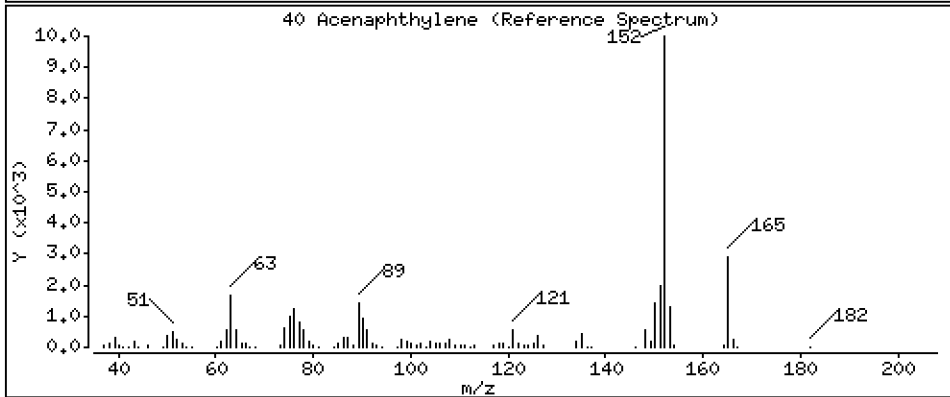
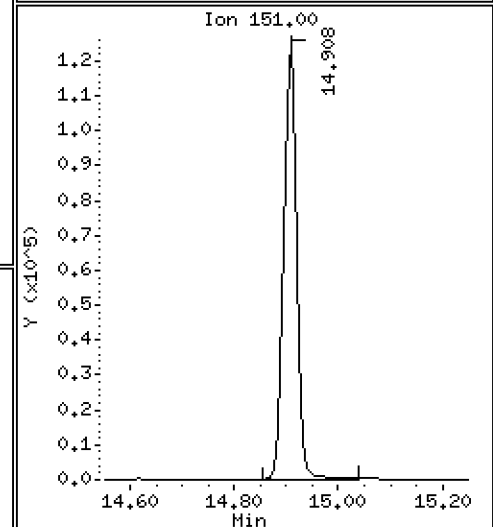
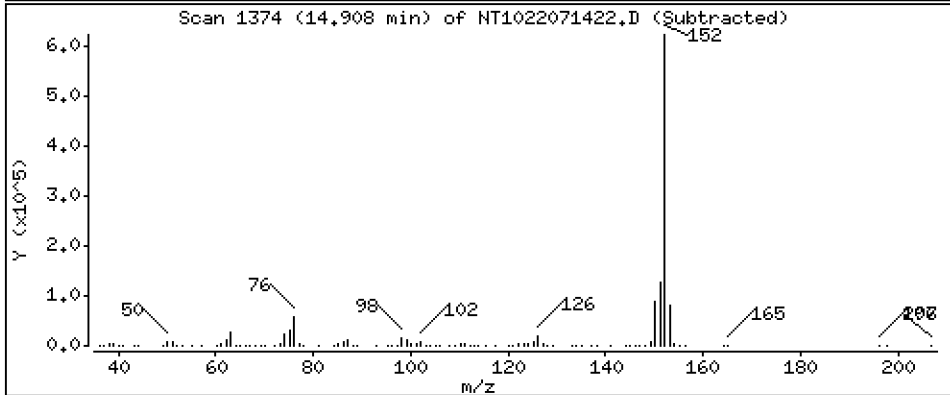
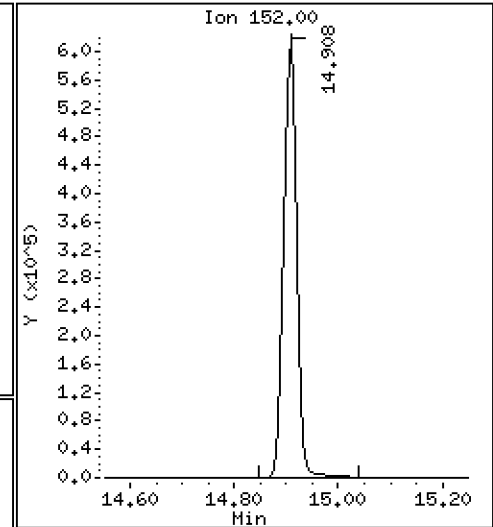
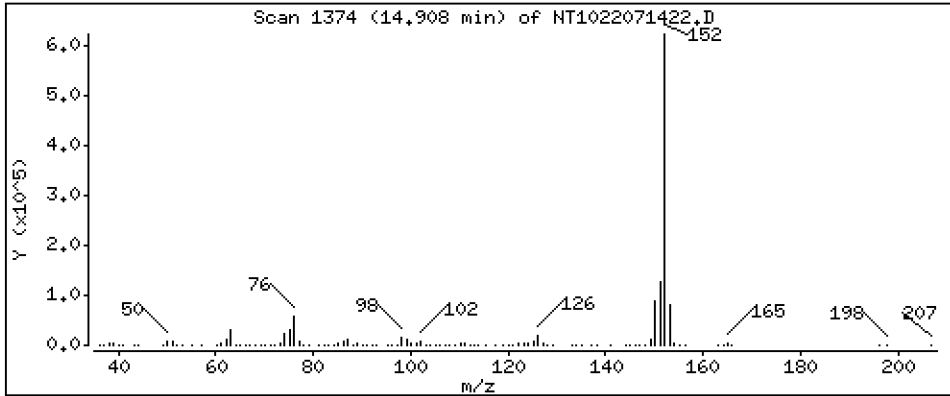
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 5,374 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

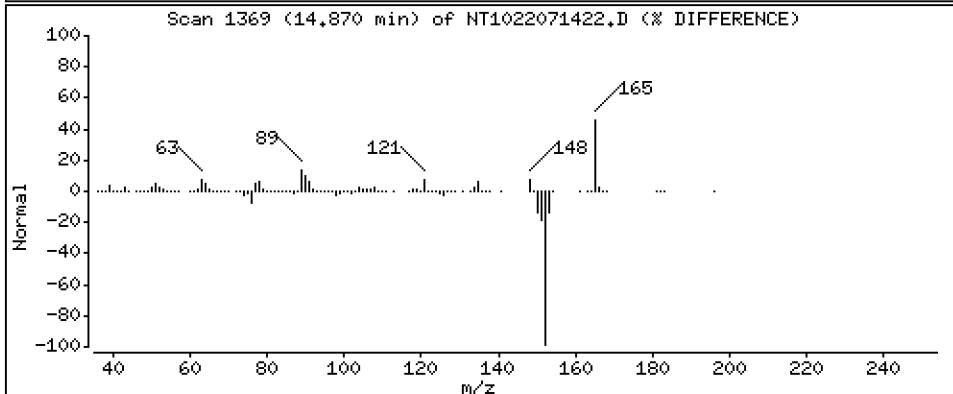
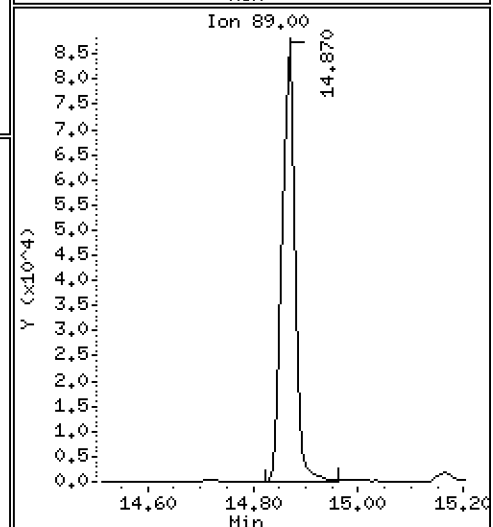
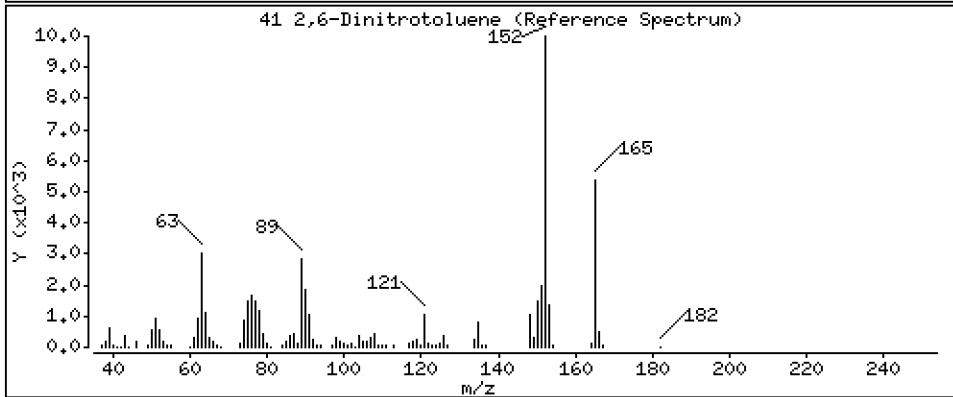
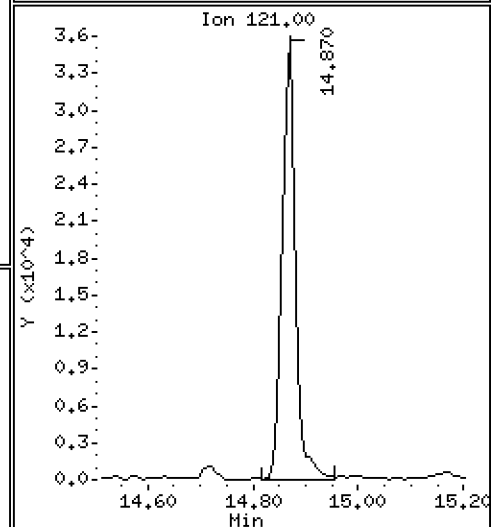
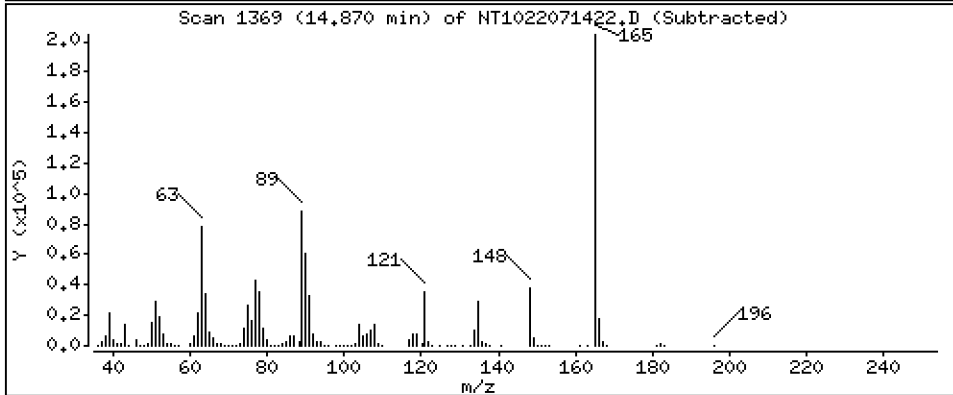
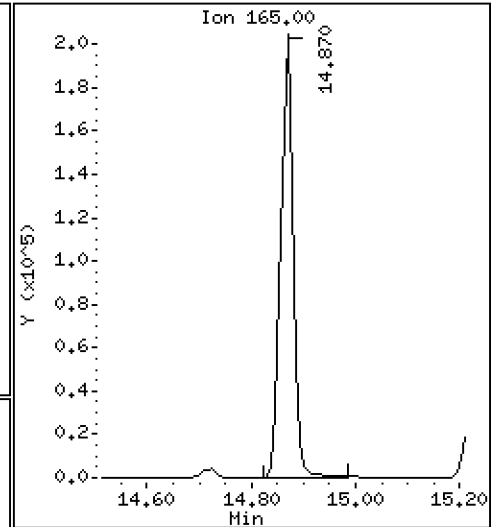
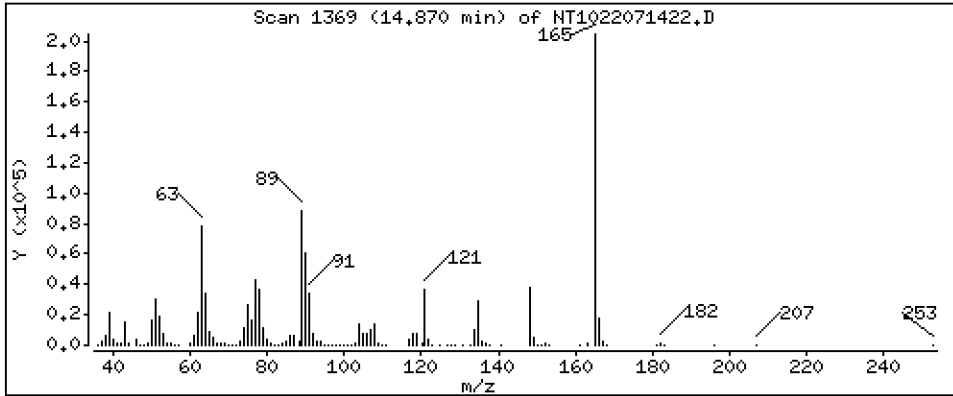
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 11,14 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

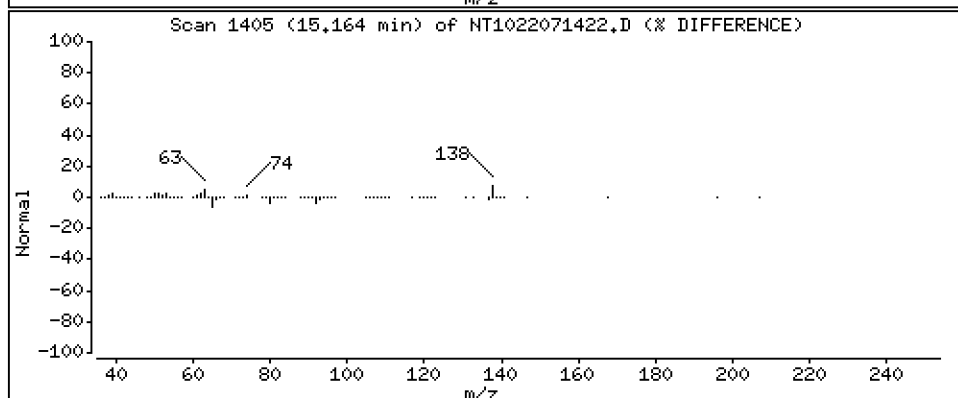
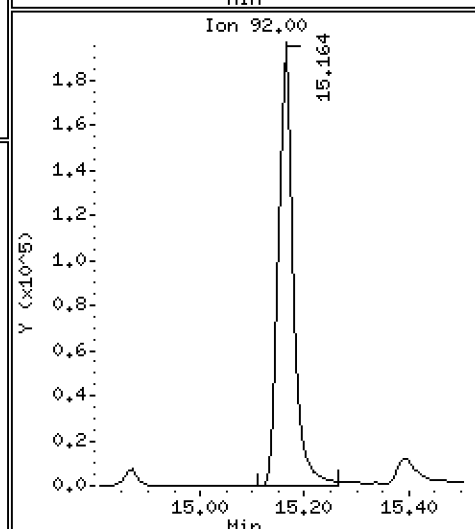
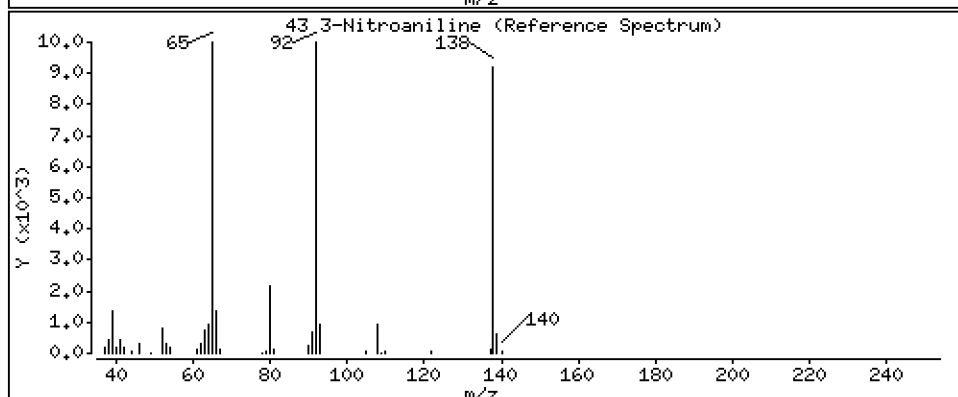
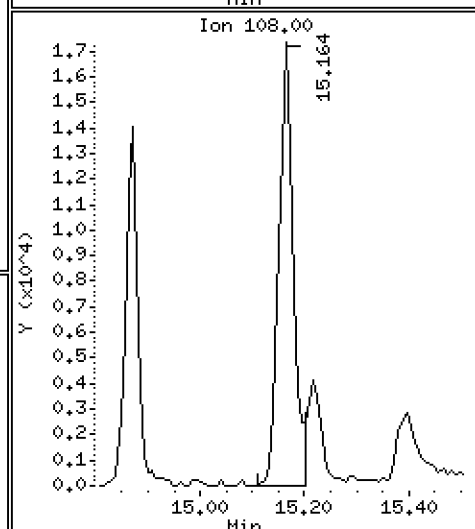
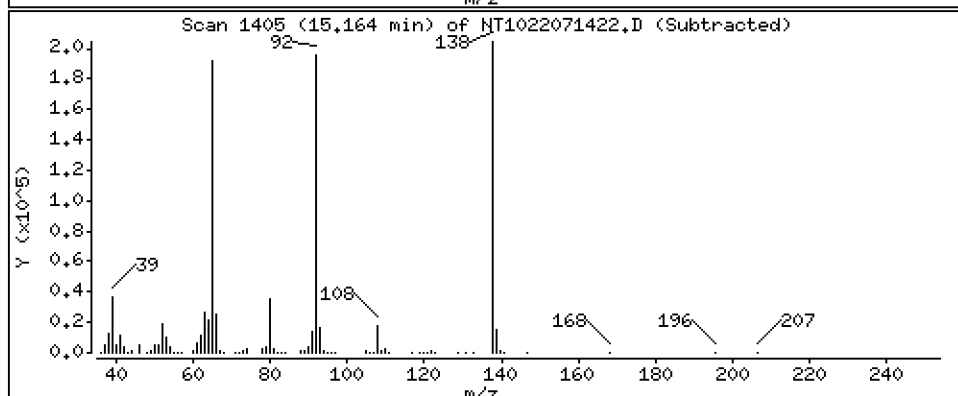
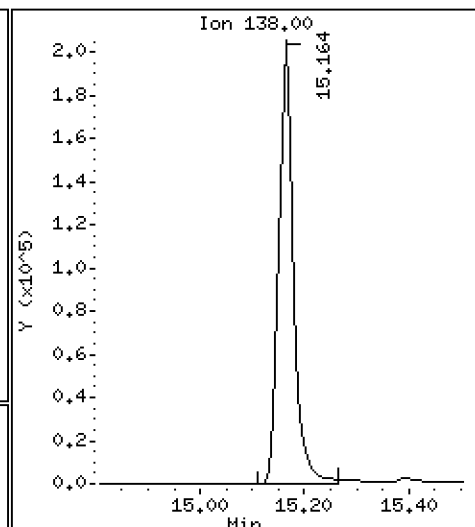
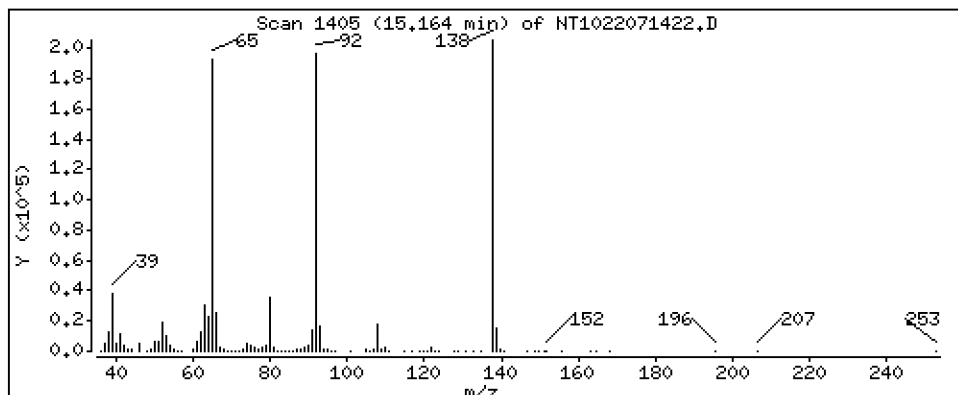
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 11,29 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

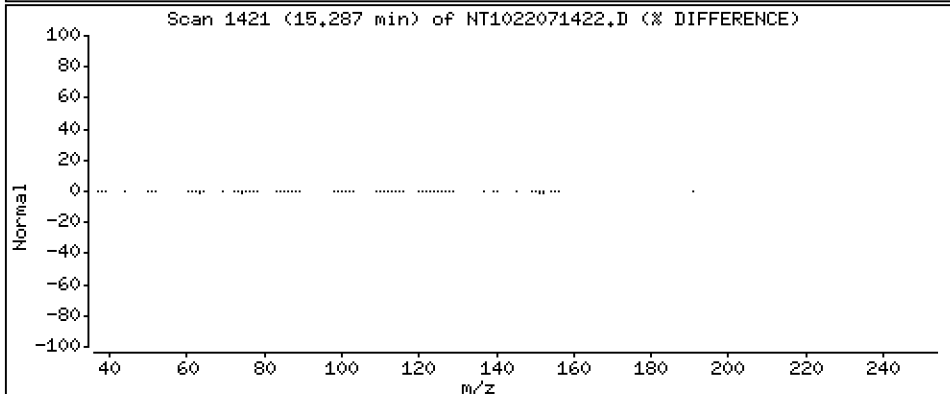
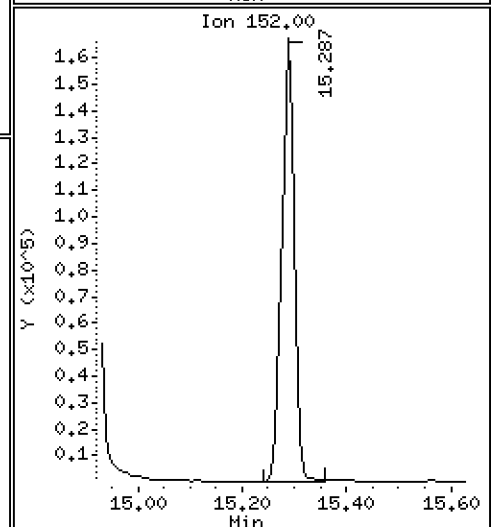
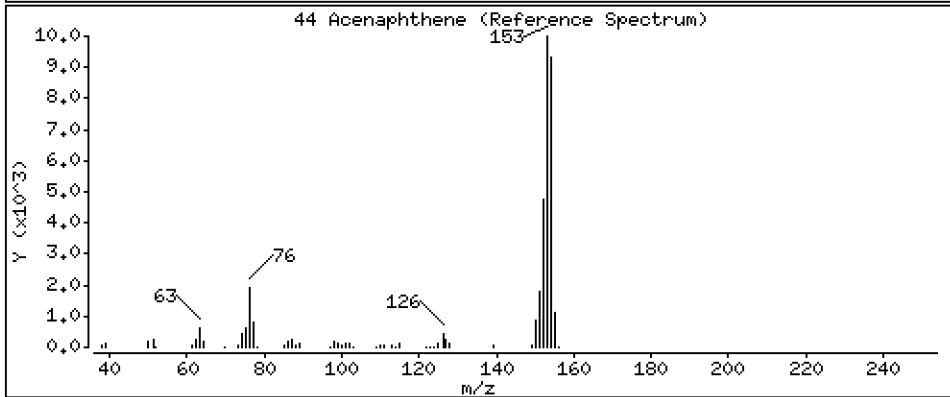
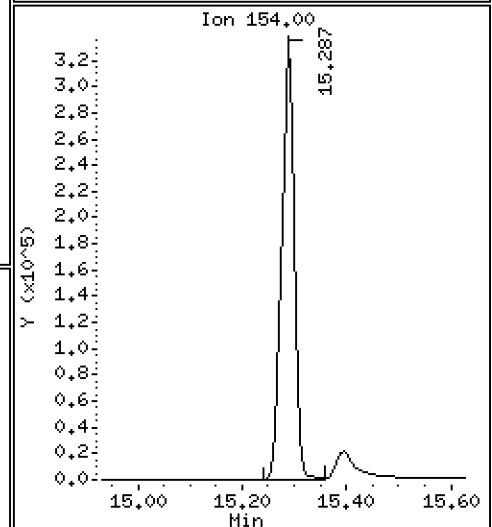
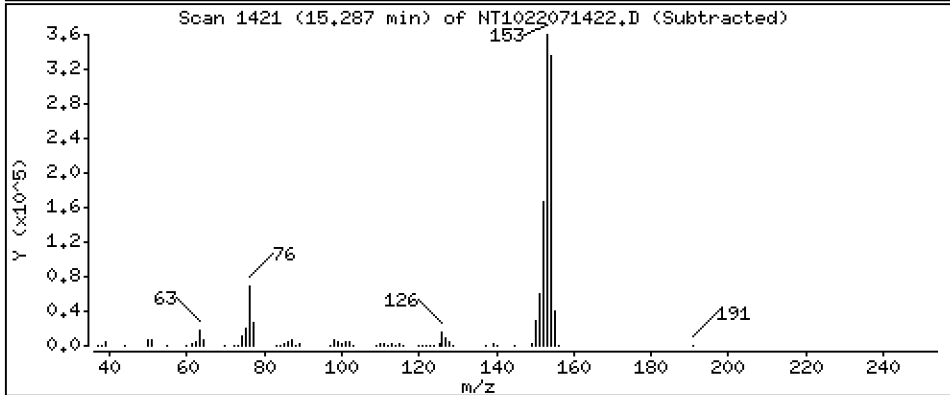
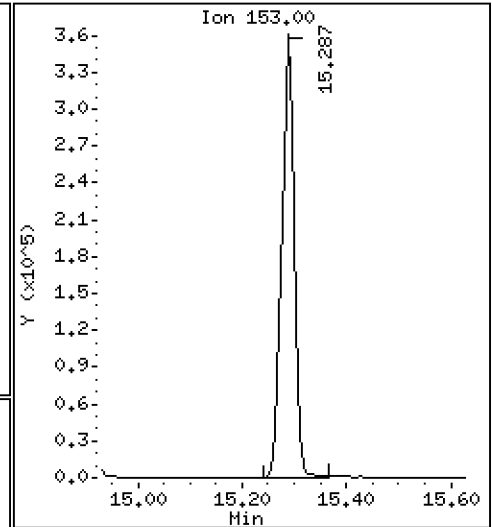
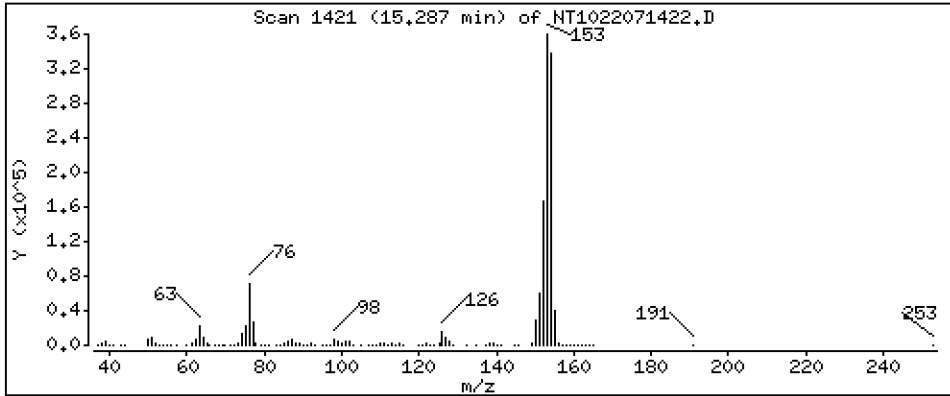
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 5,543 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

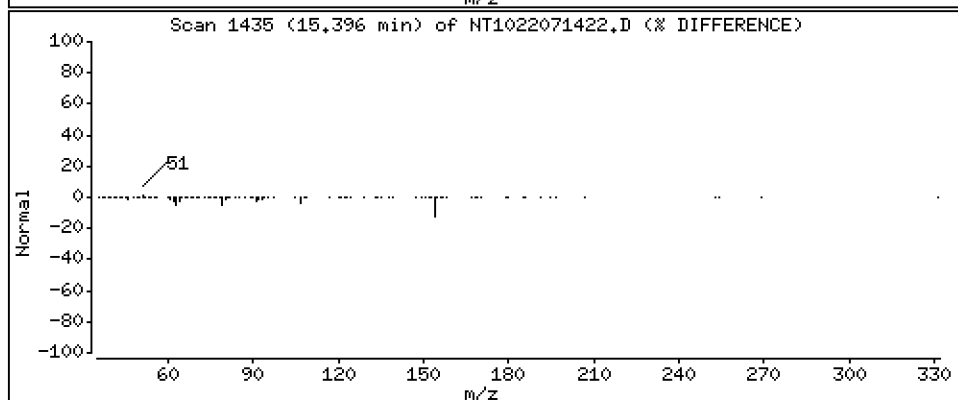
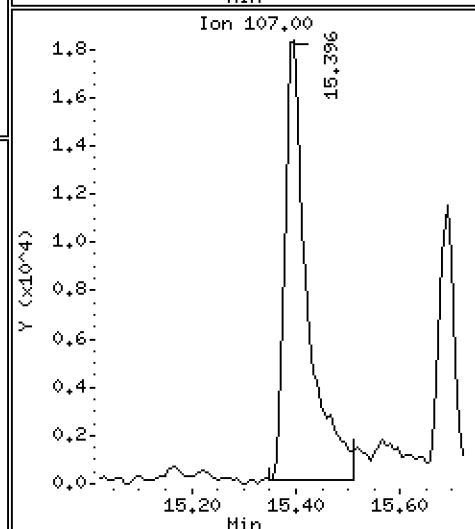
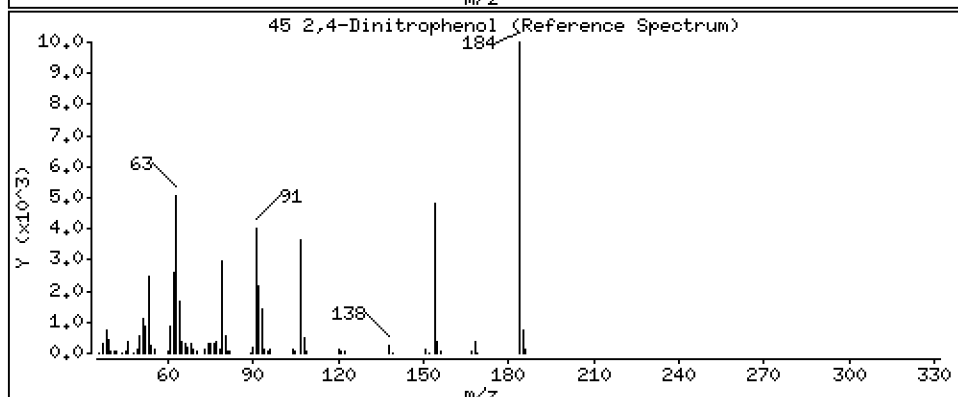
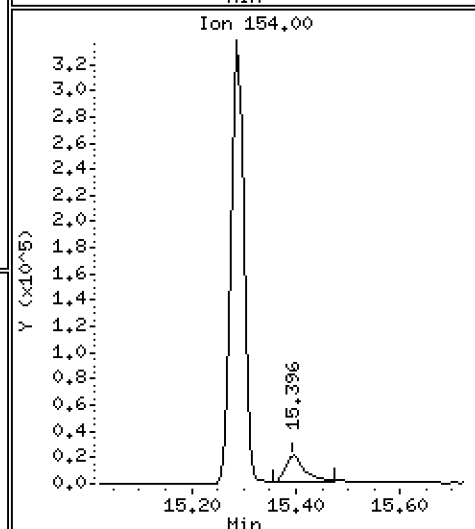
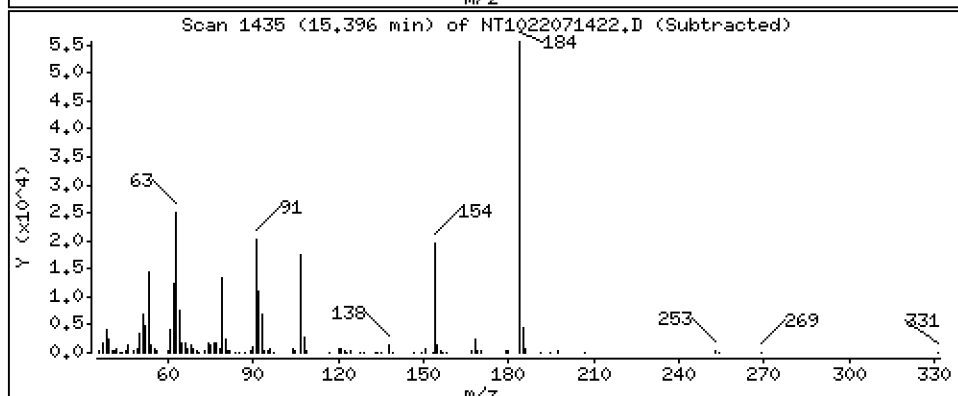
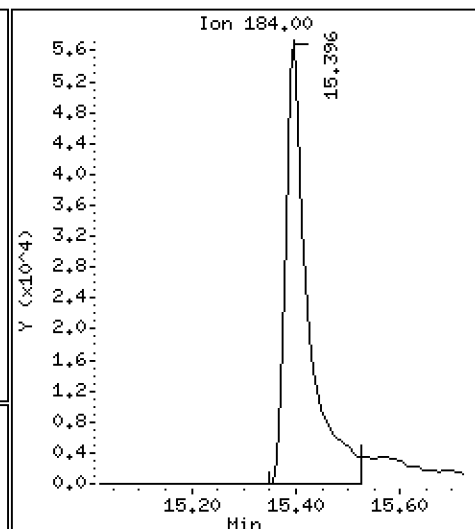
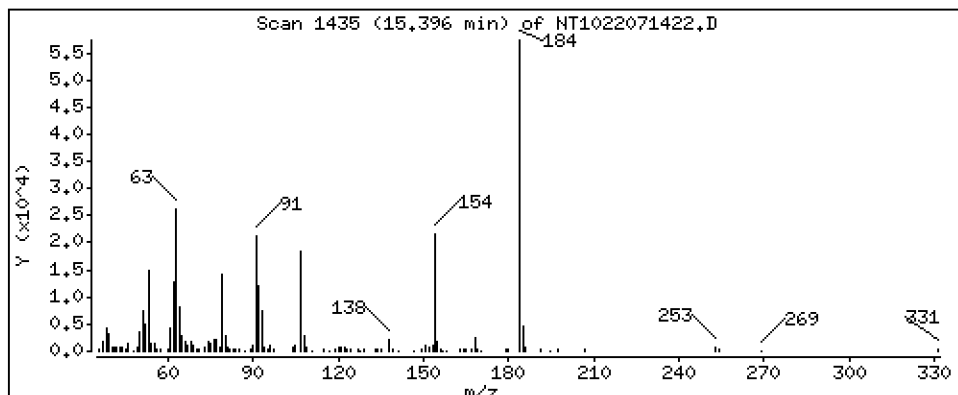
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 12,84 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

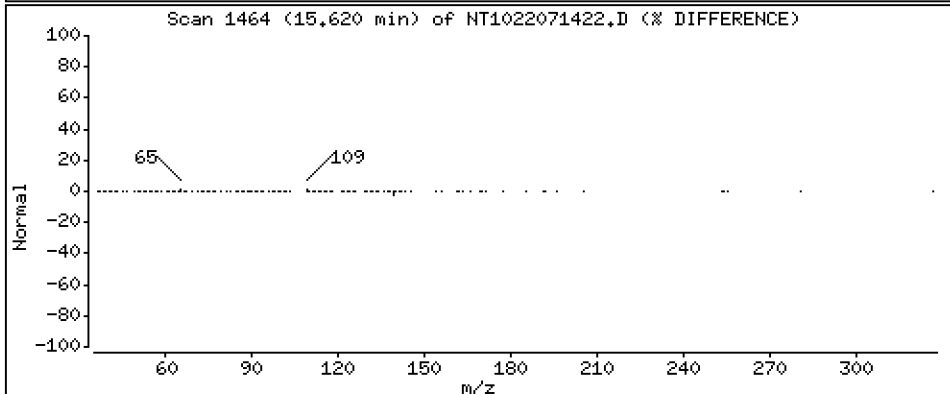
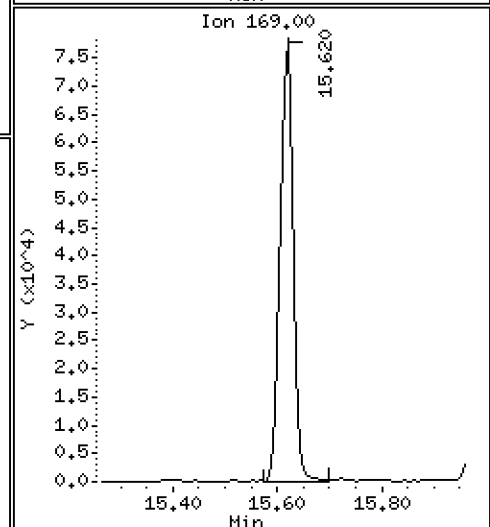
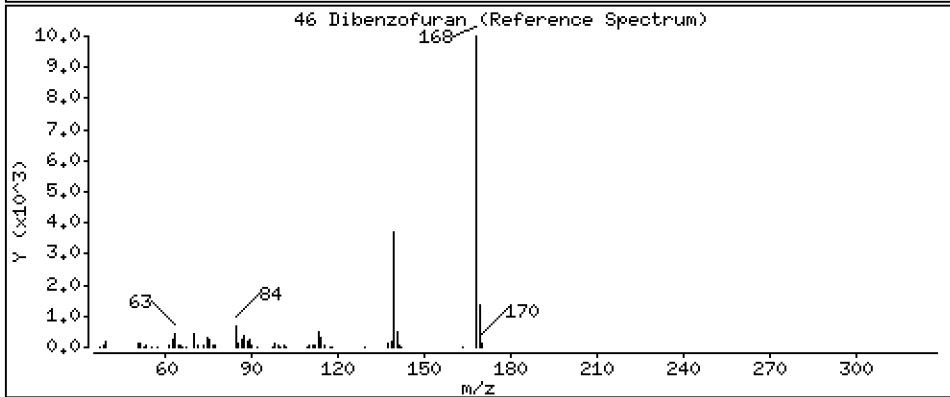
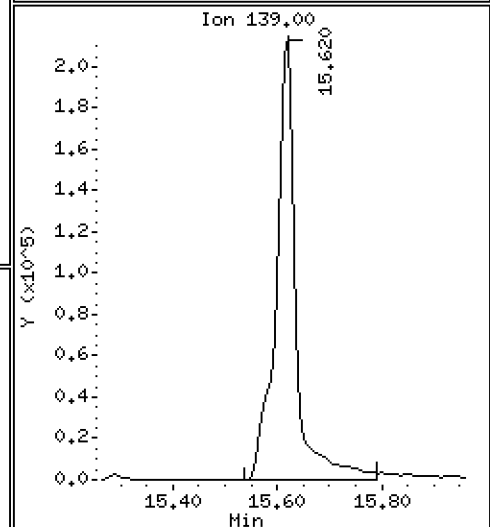
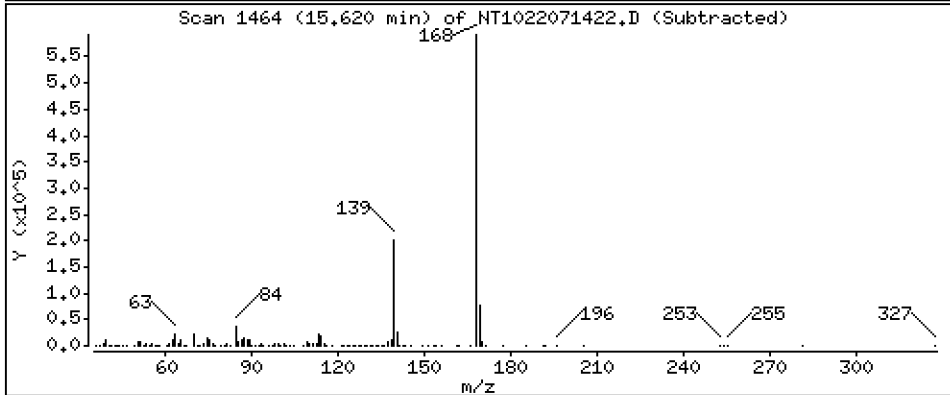
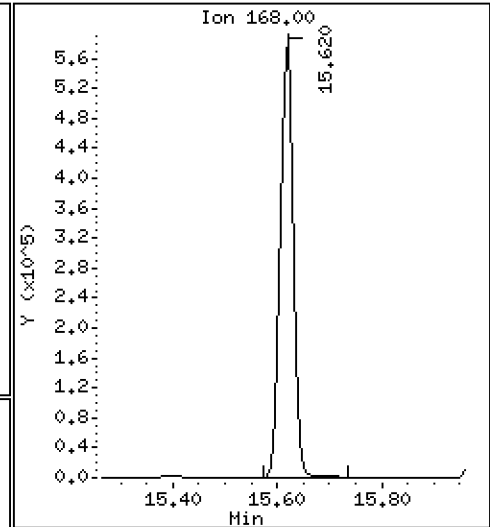
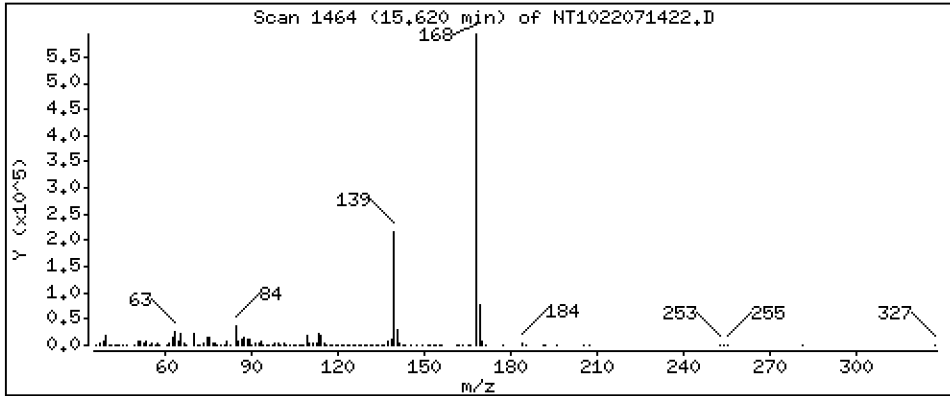
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 5,879 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

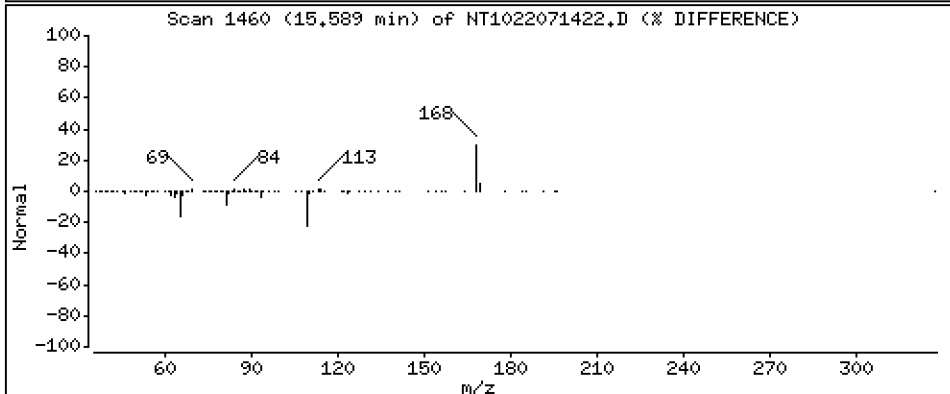
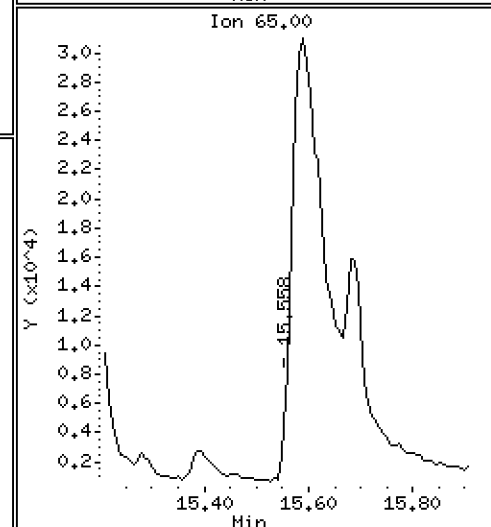
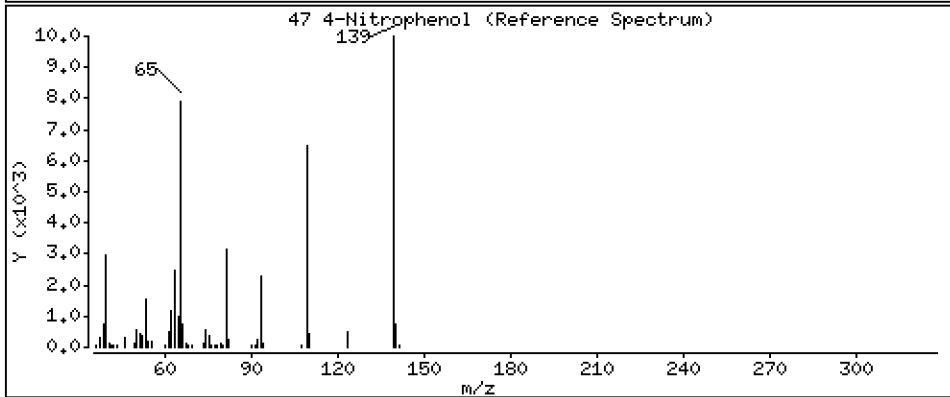
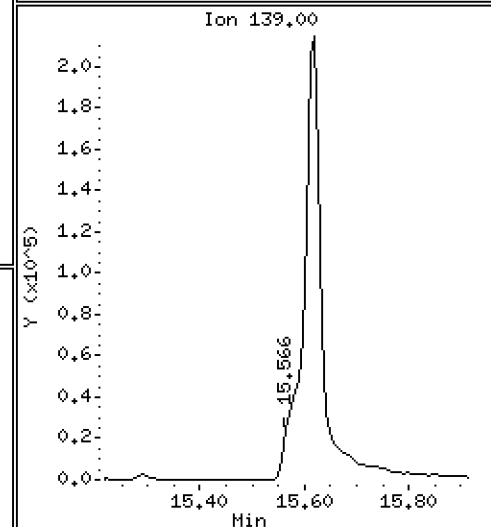
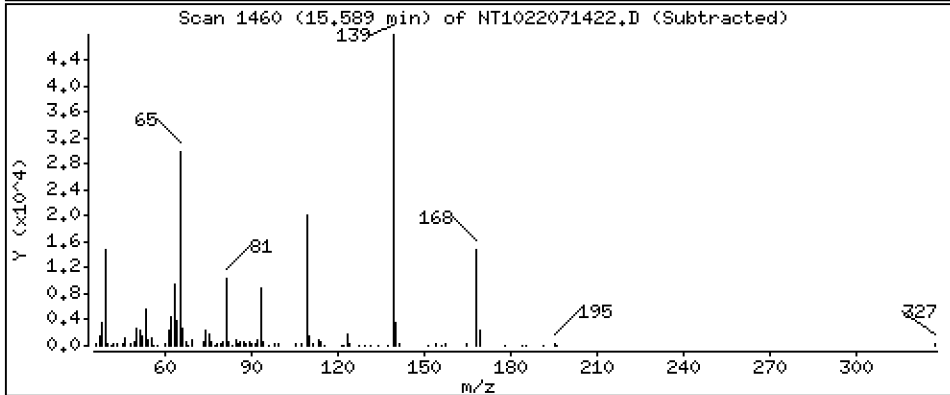
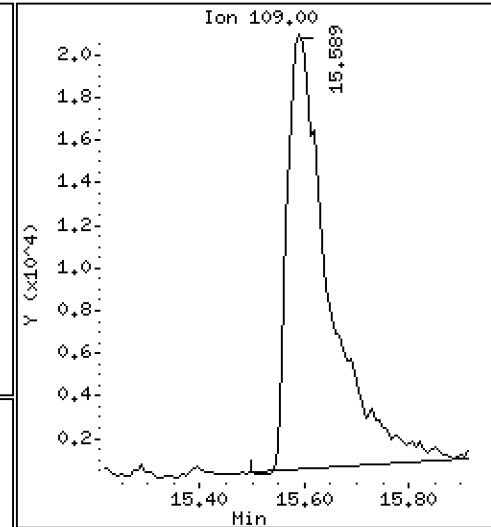
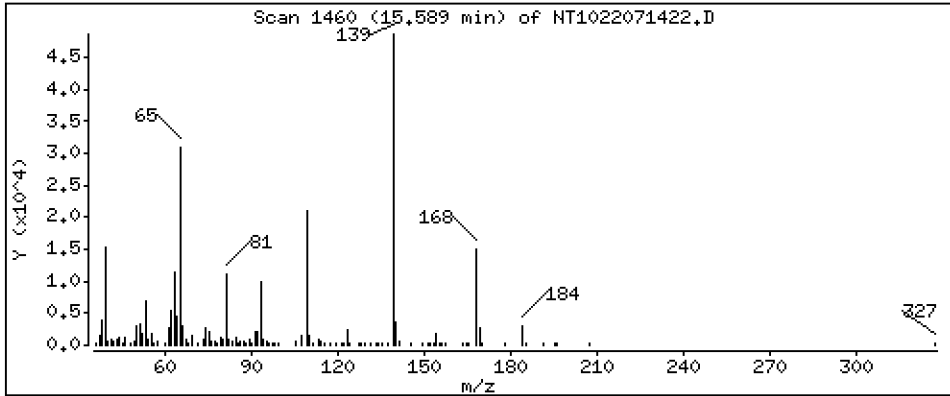
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 9,896 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

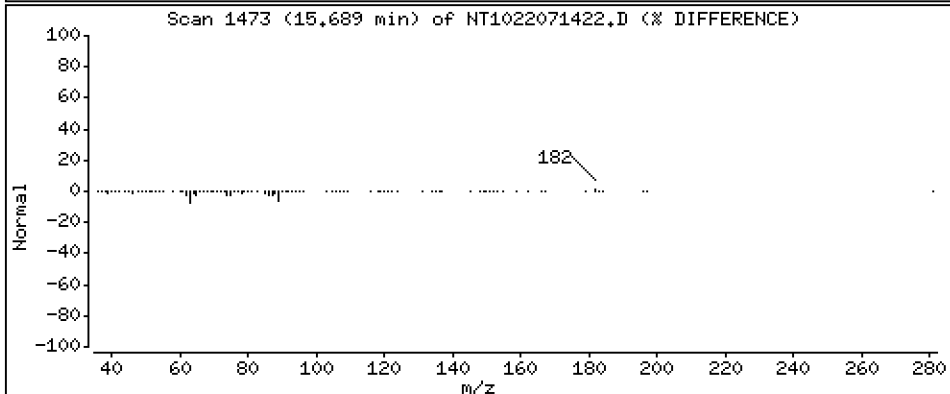
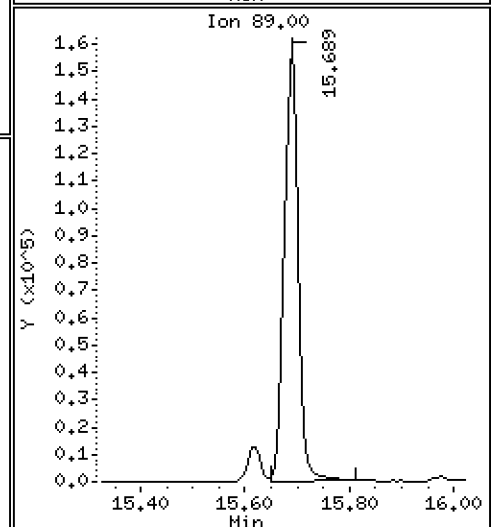
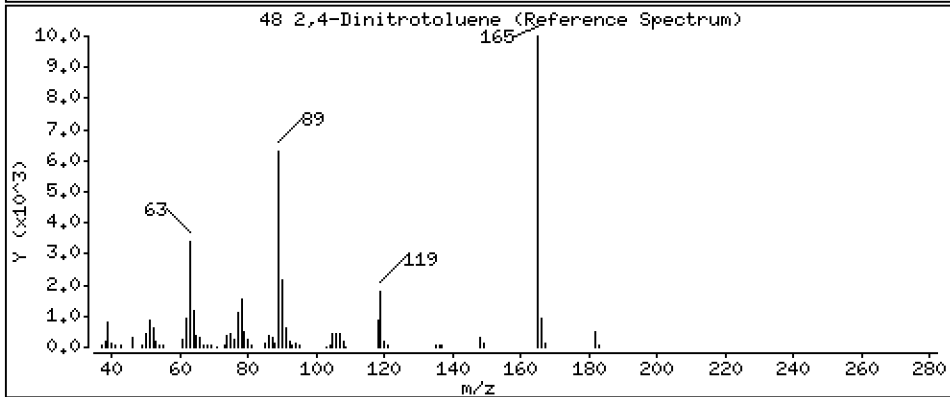
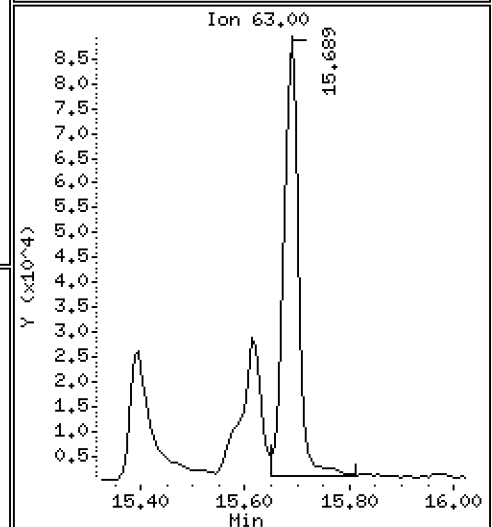
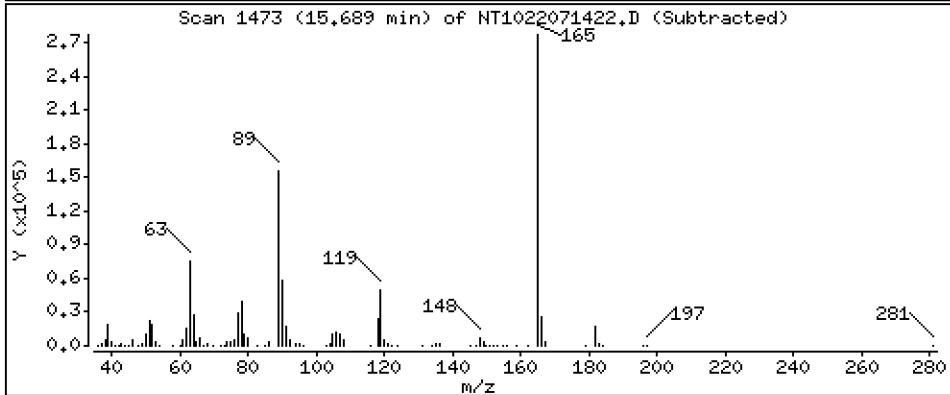
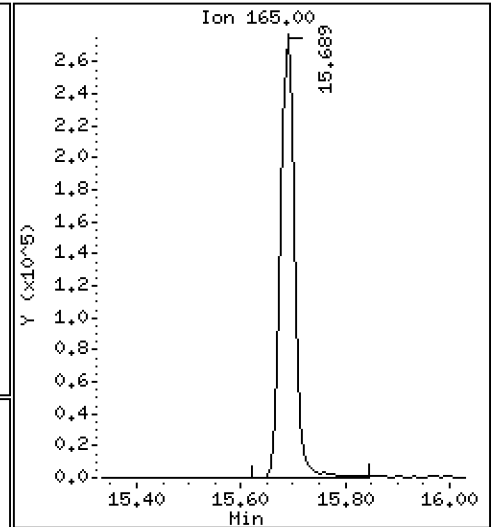
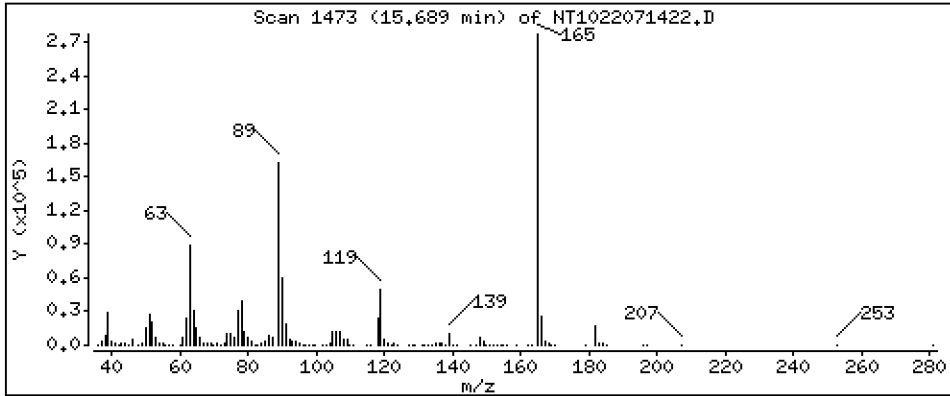
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 12,60 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

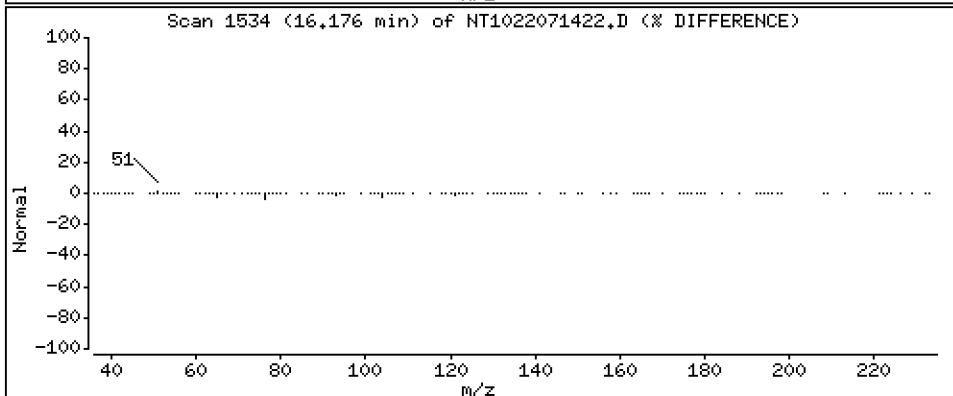
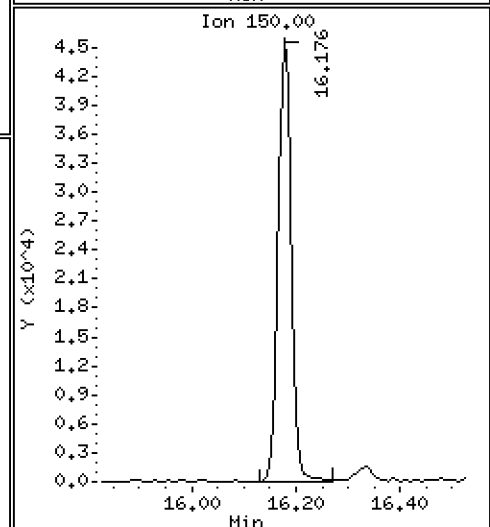
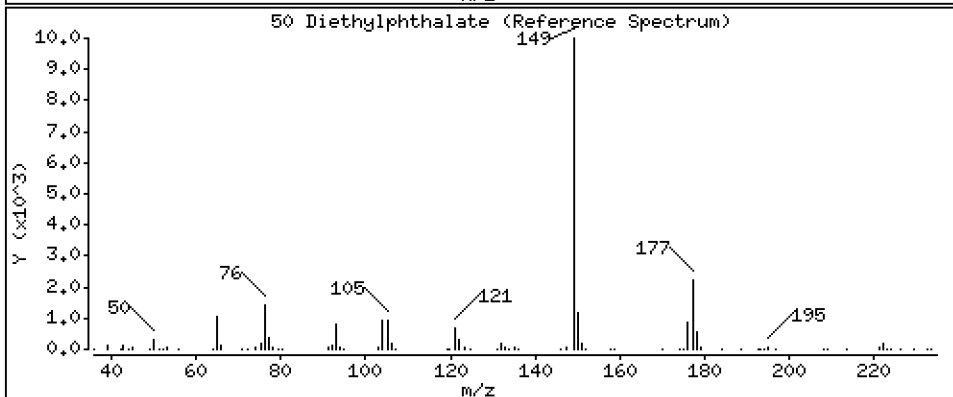
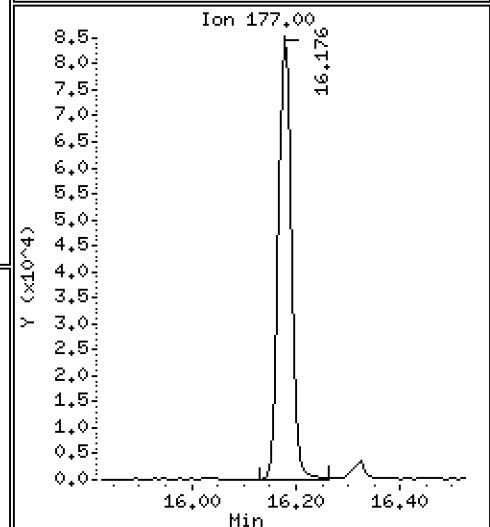
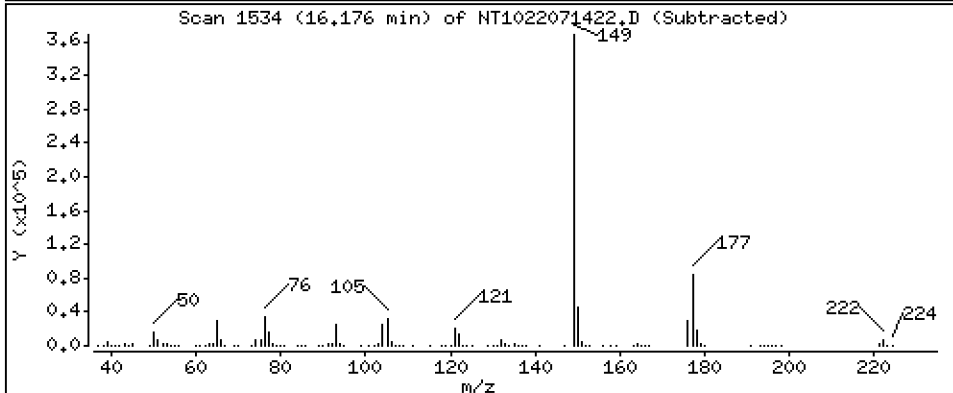
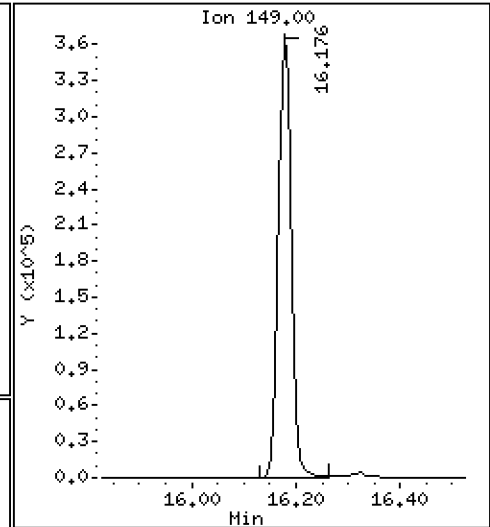
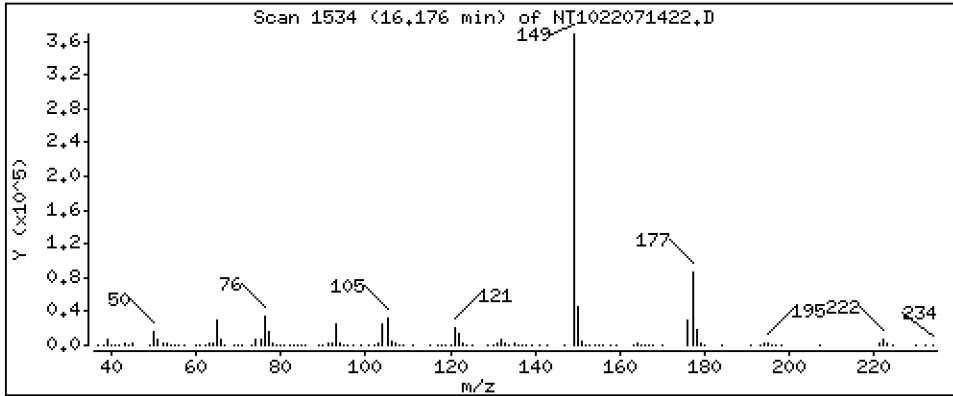
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,535 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

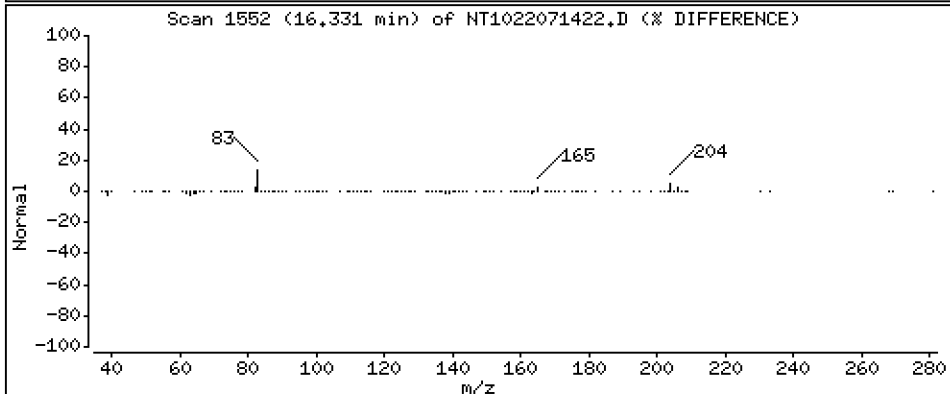
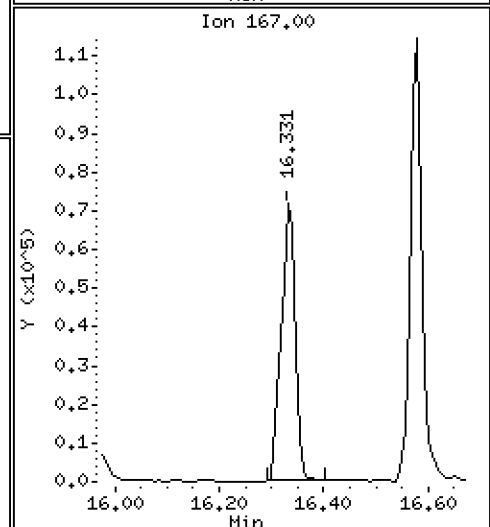
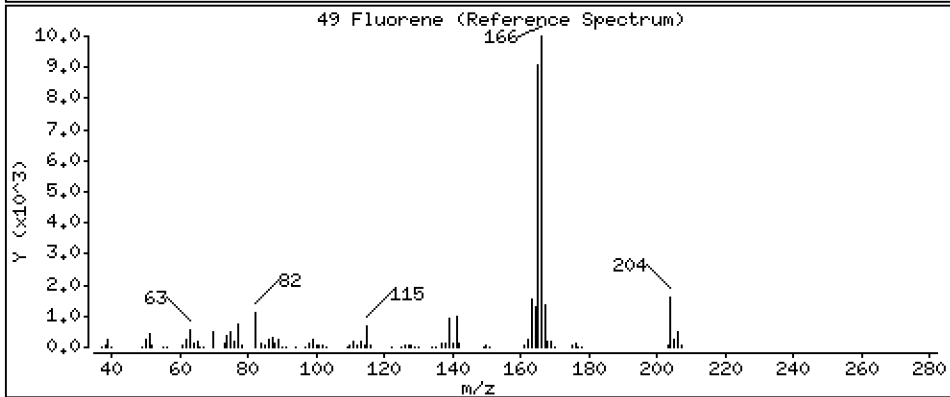
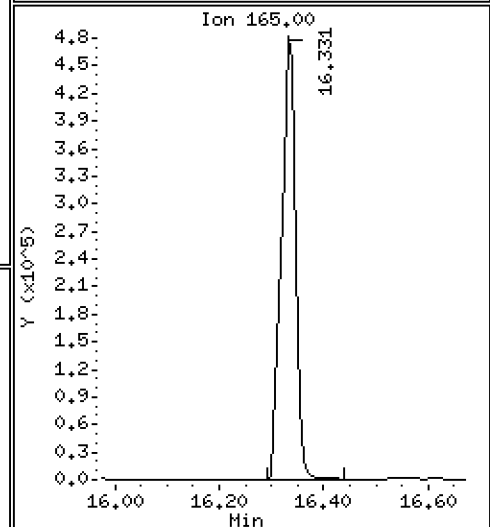
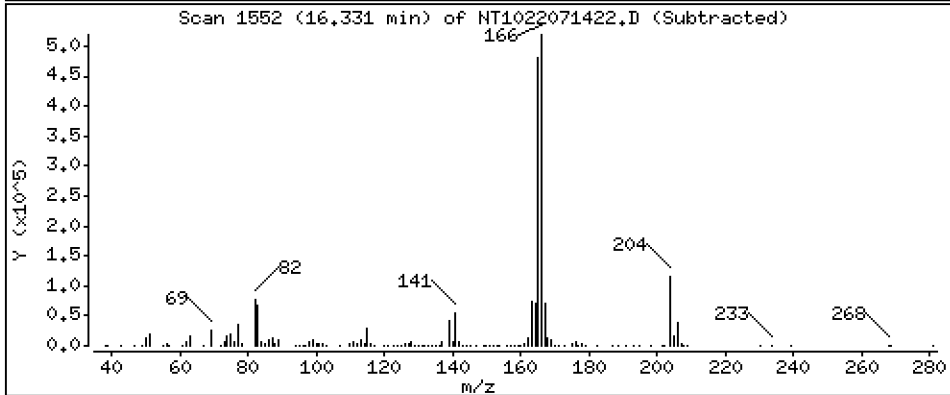
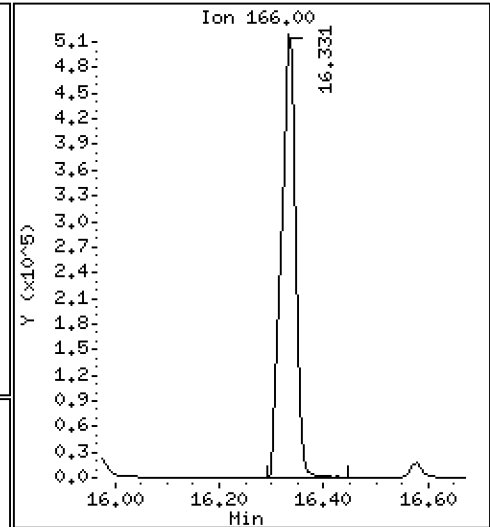
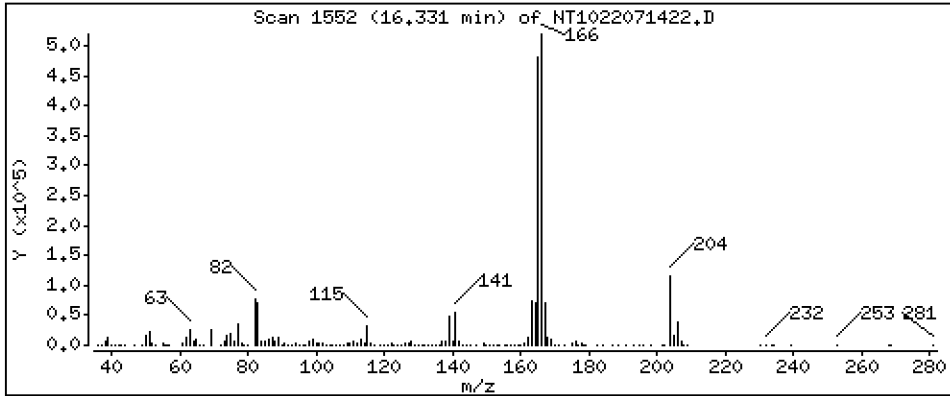
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,555 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

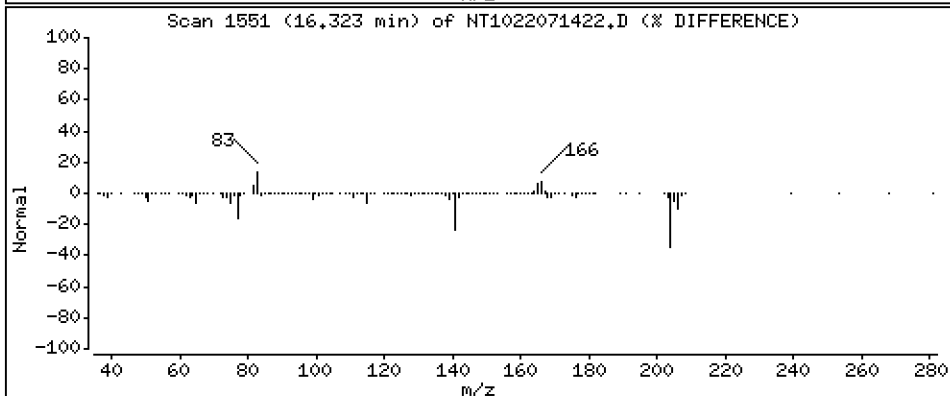
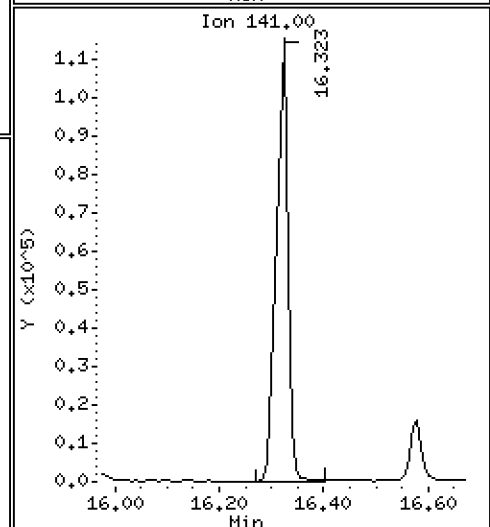
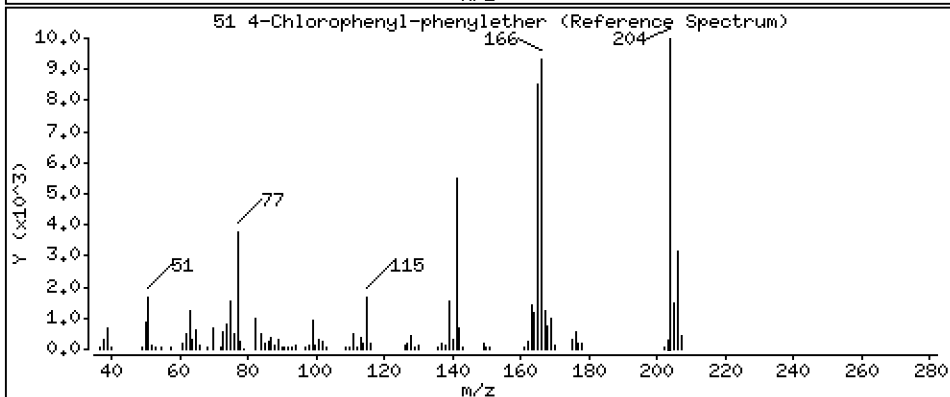
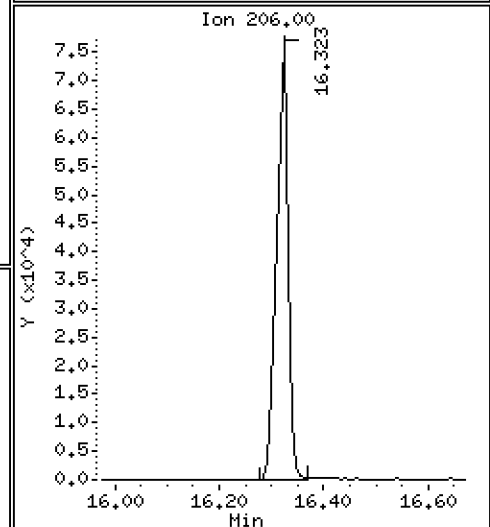
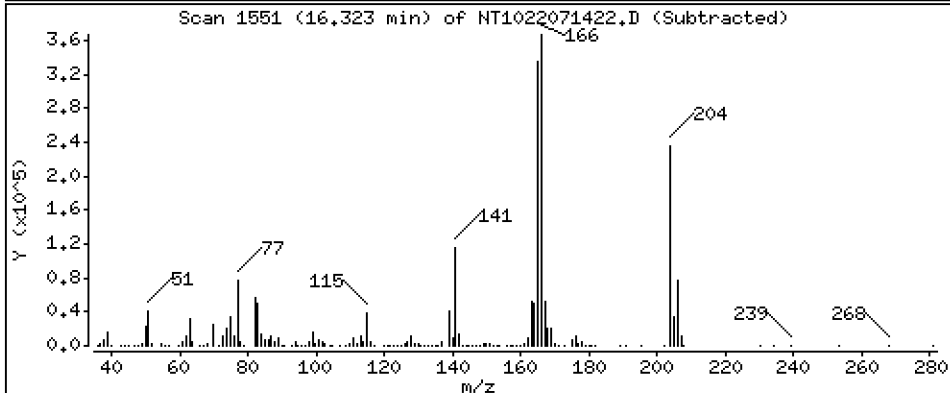
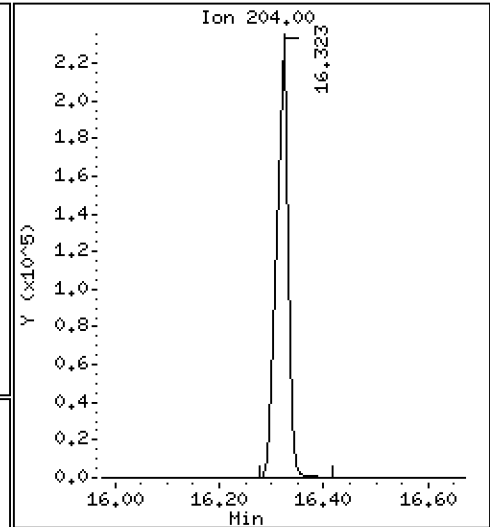
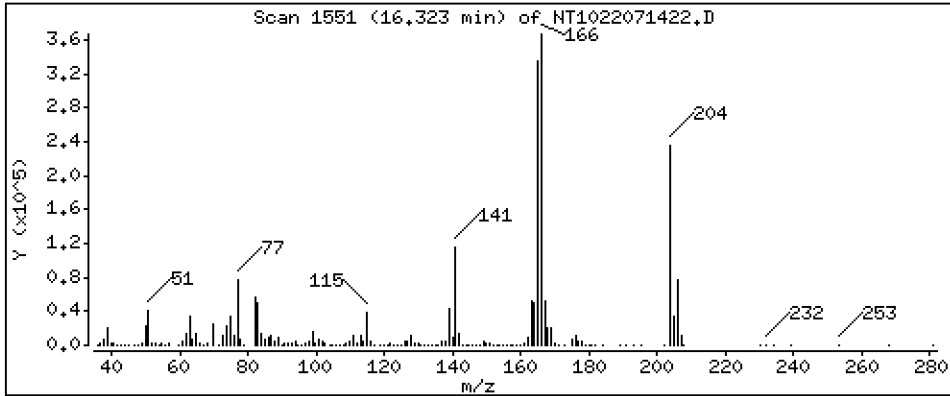
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 2,698 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

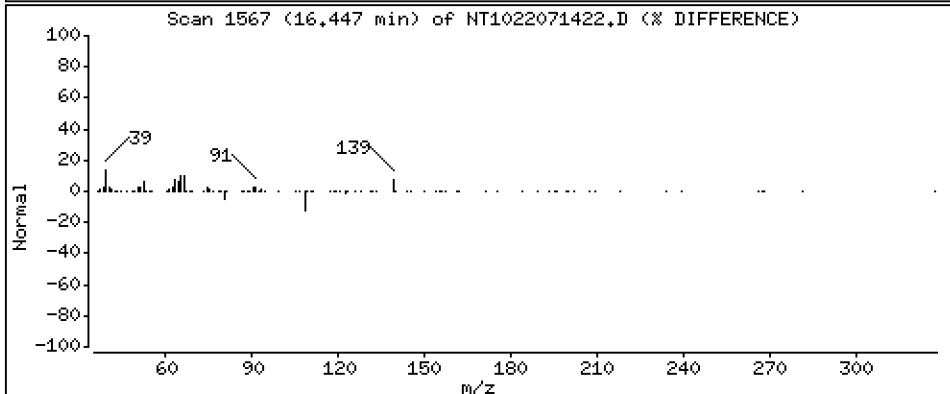
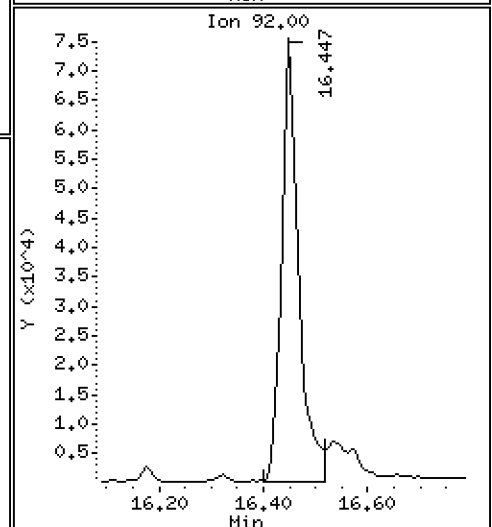
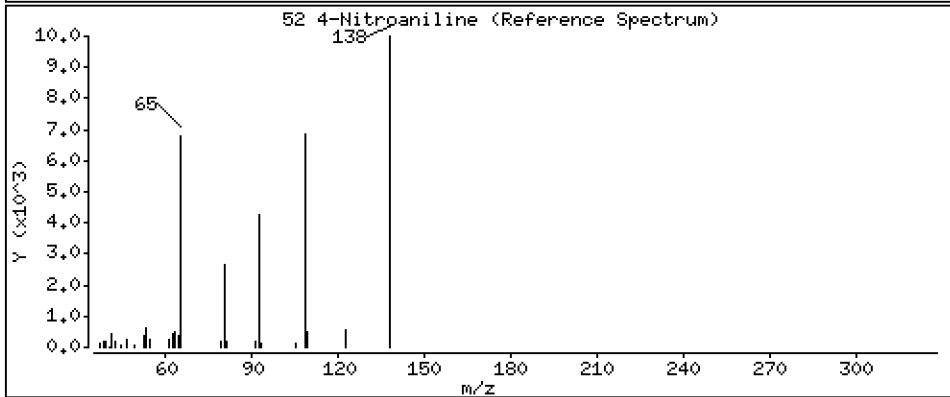
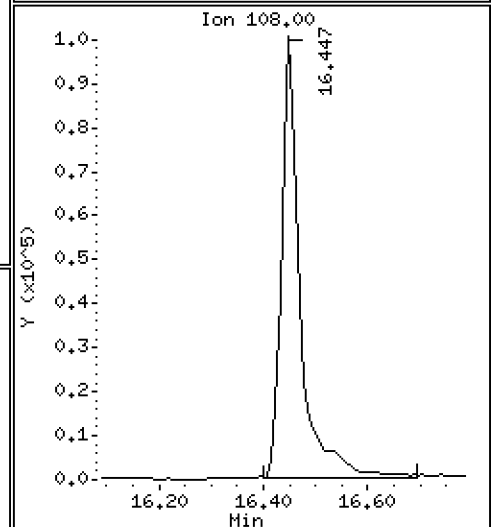
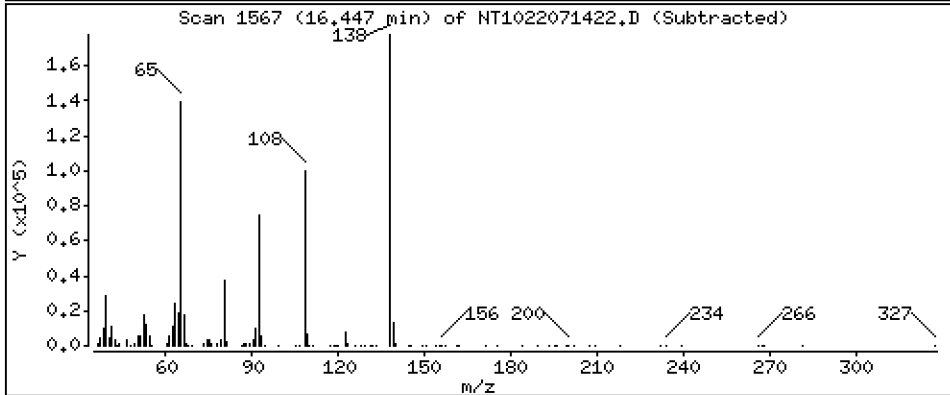
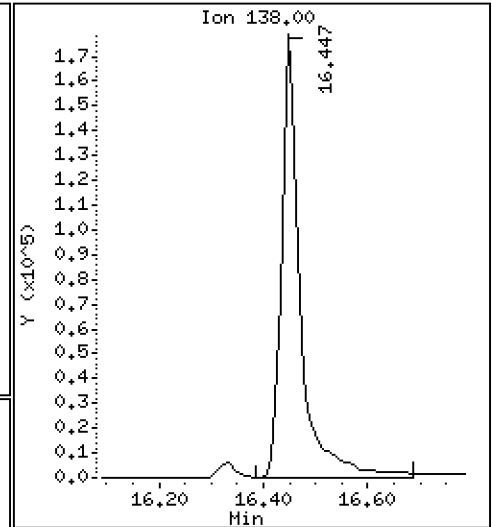
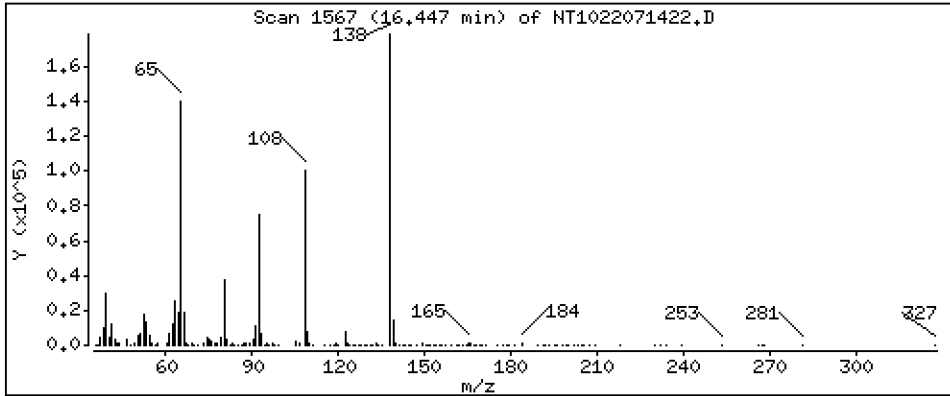
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 12,91 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

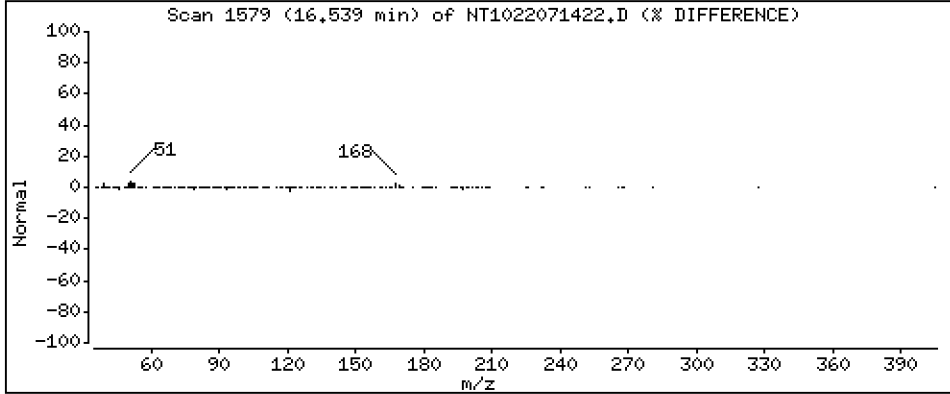
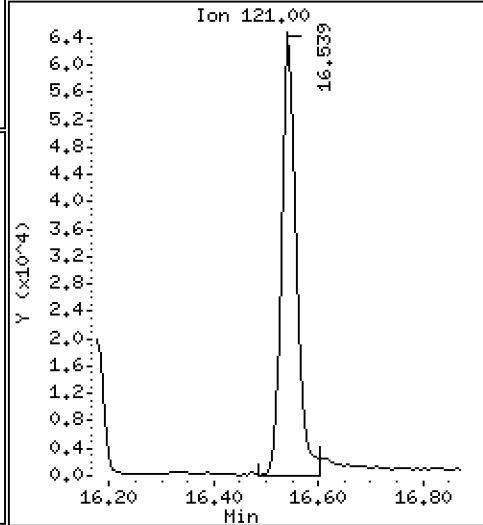
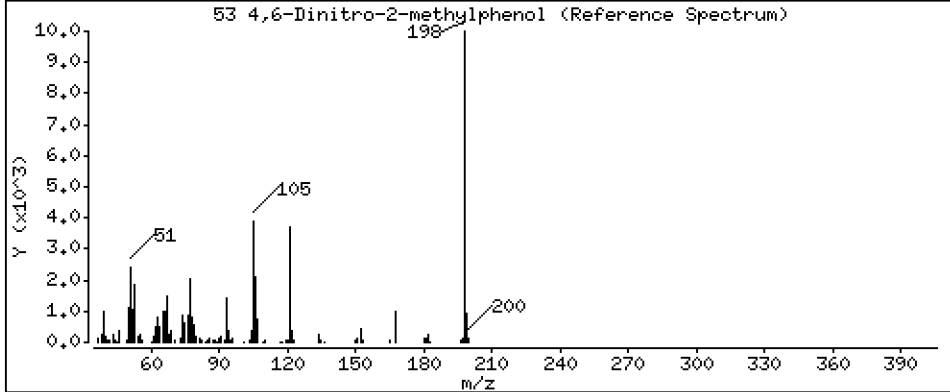
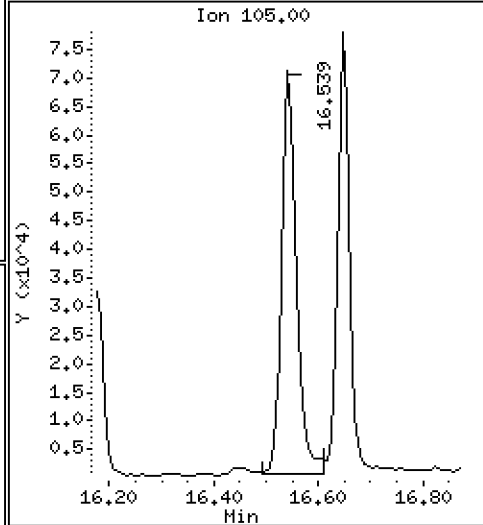
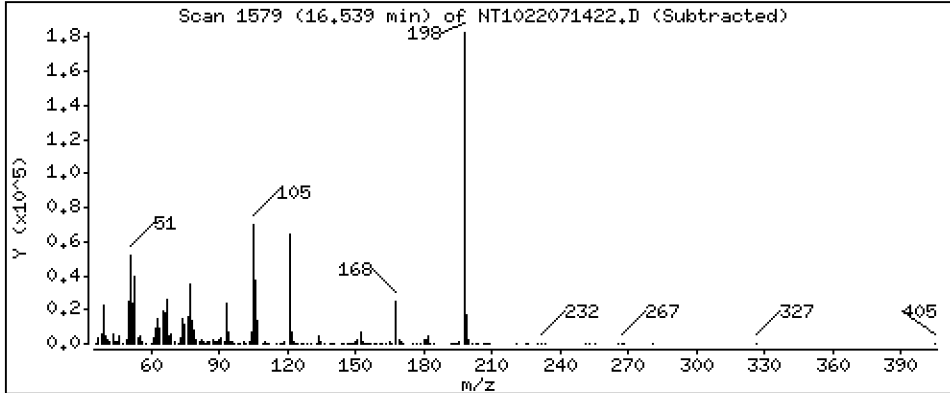
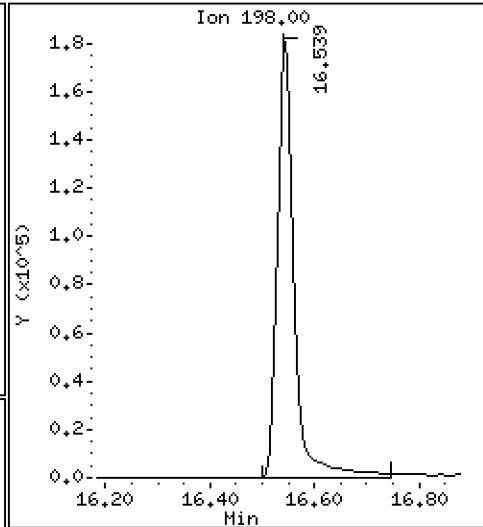
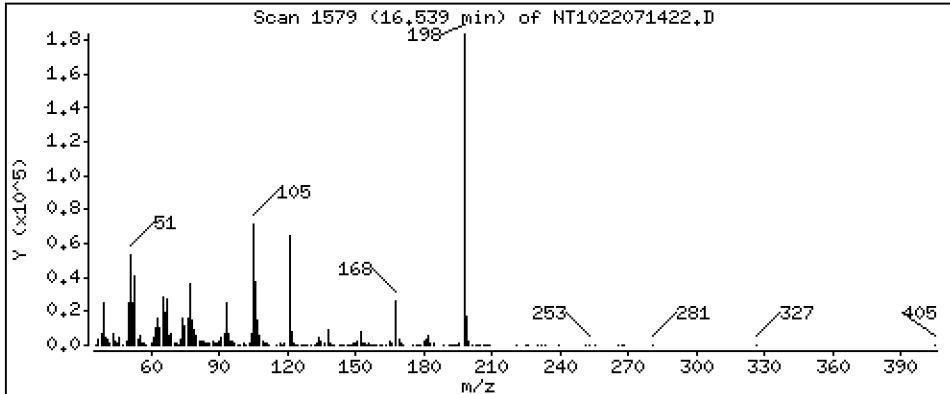
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 22,14 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

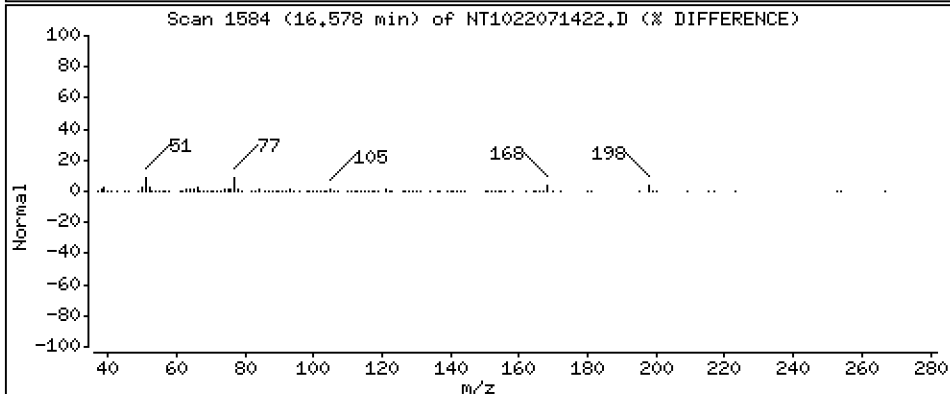
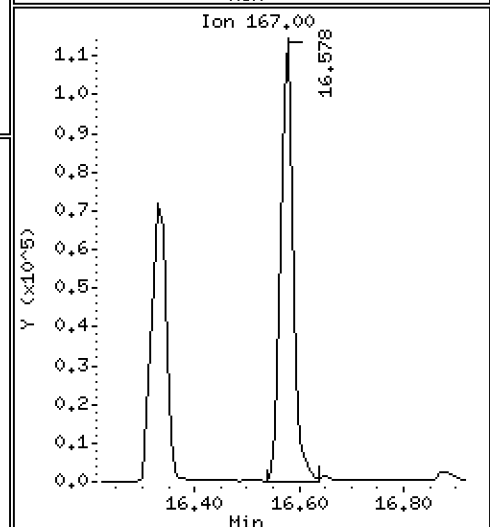
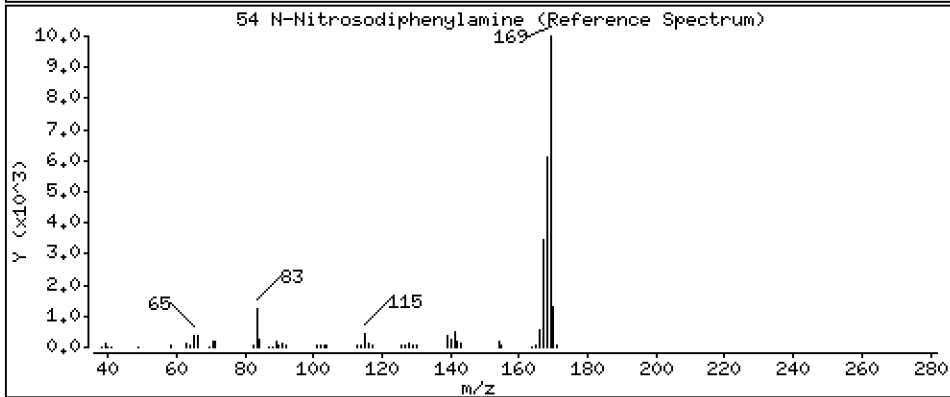
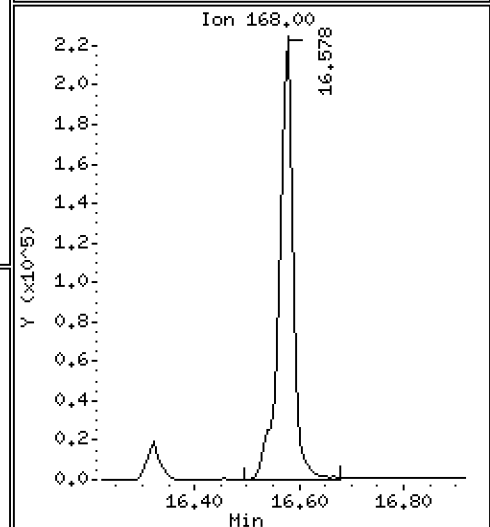
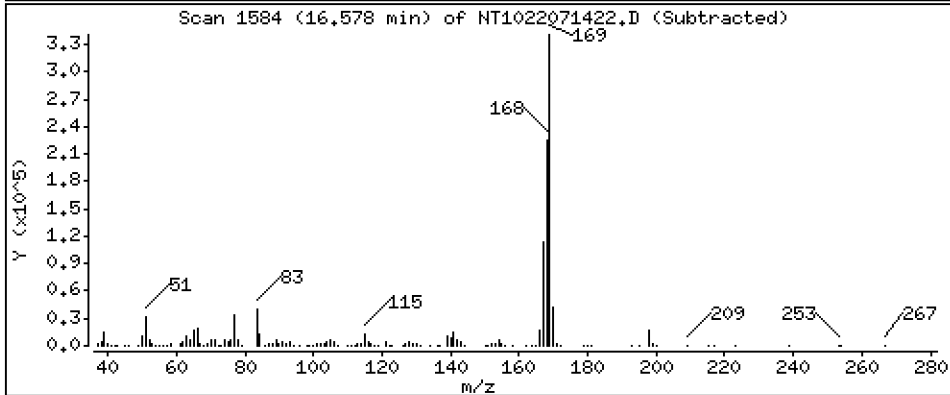
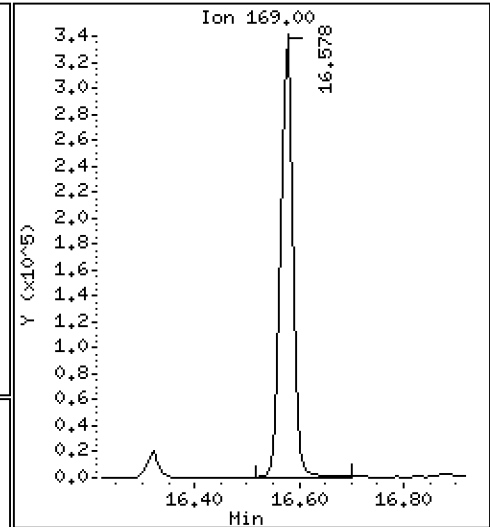
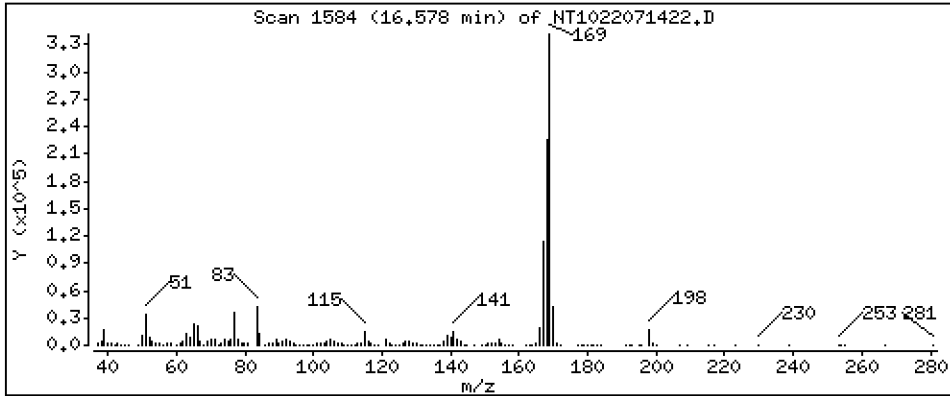
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 7,344 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

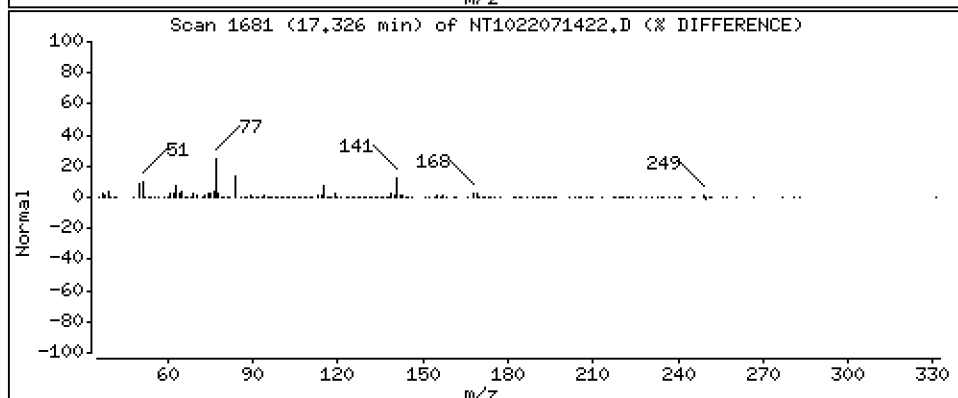
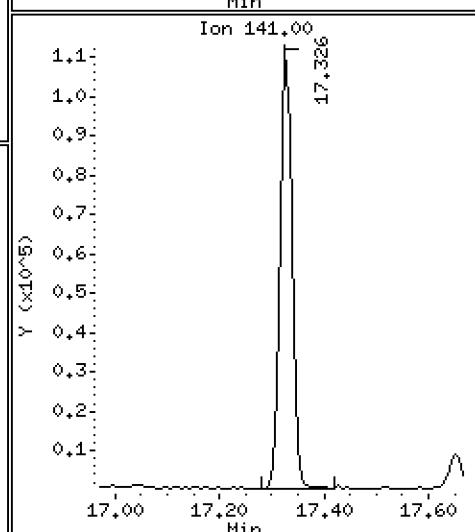
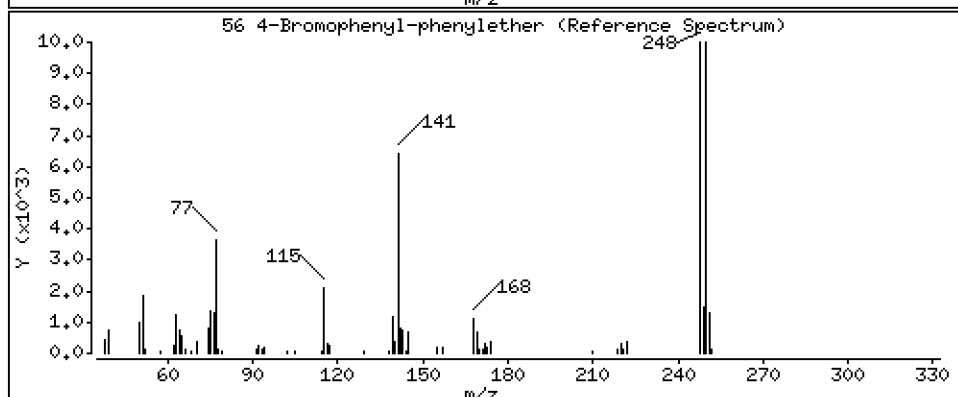
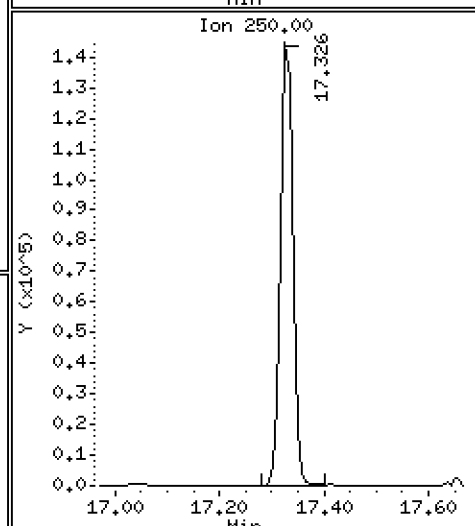
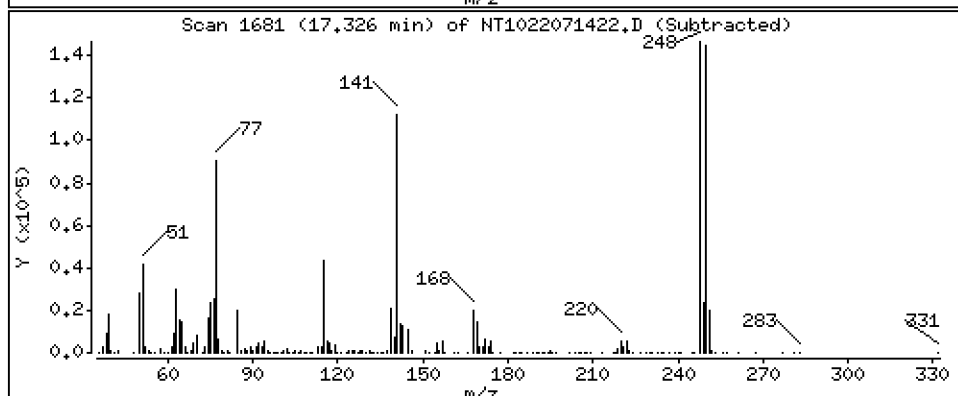
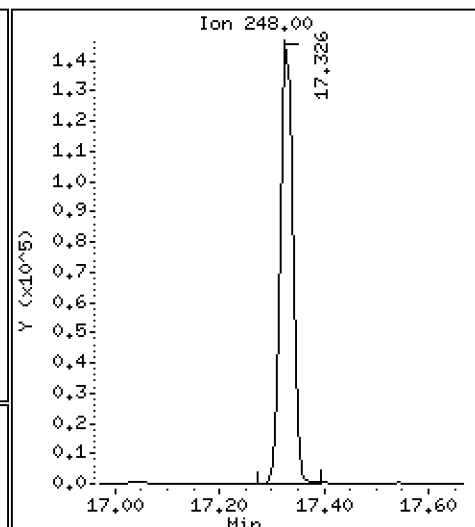
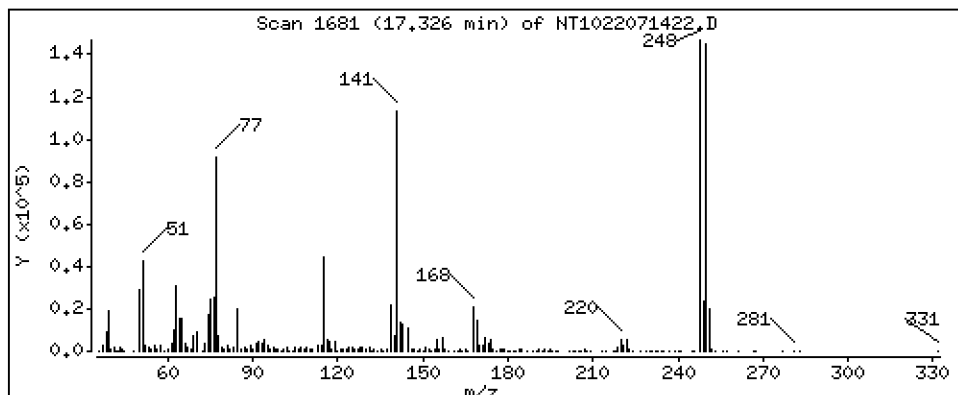
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 6,732 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

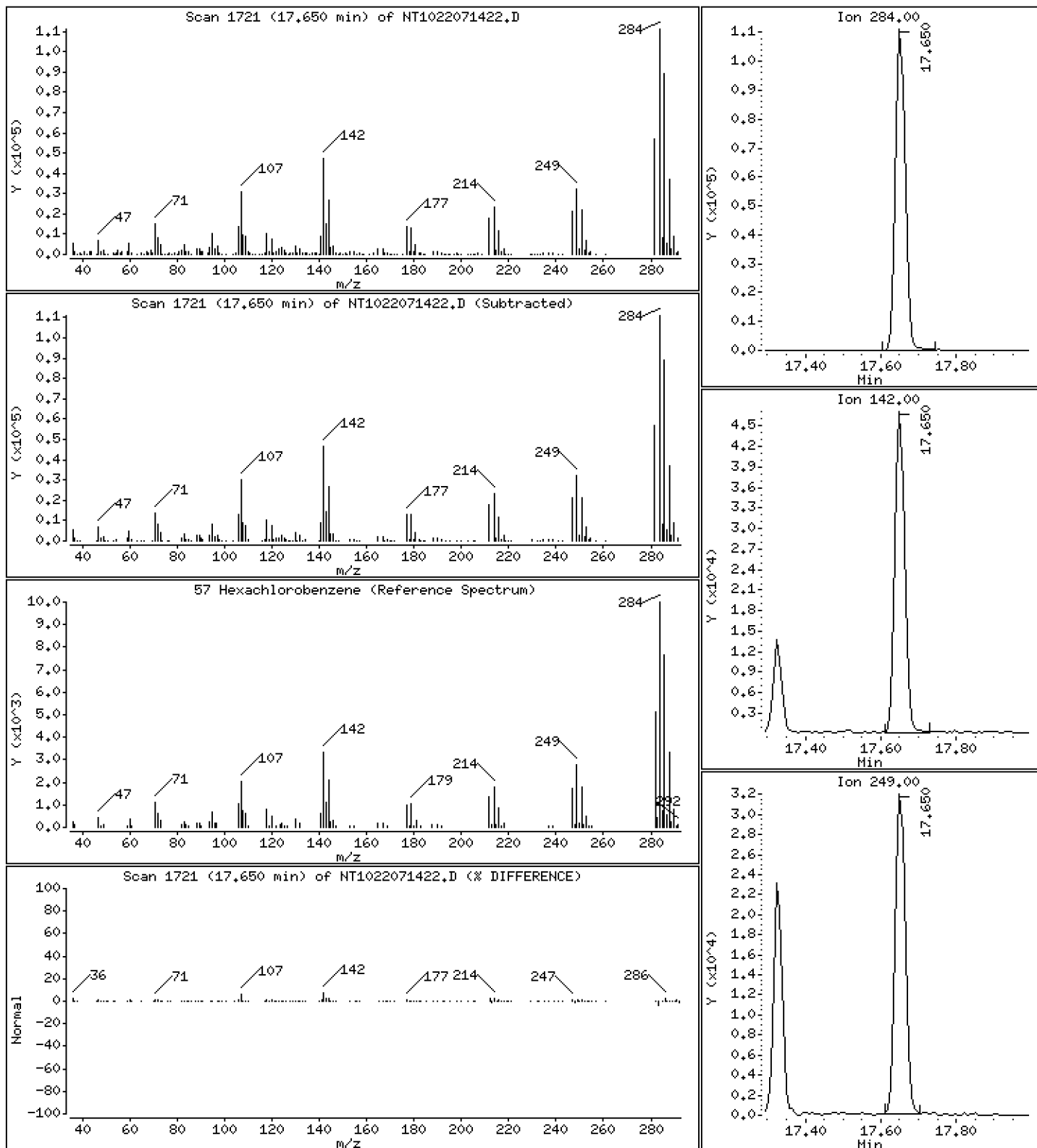
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 6,260 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

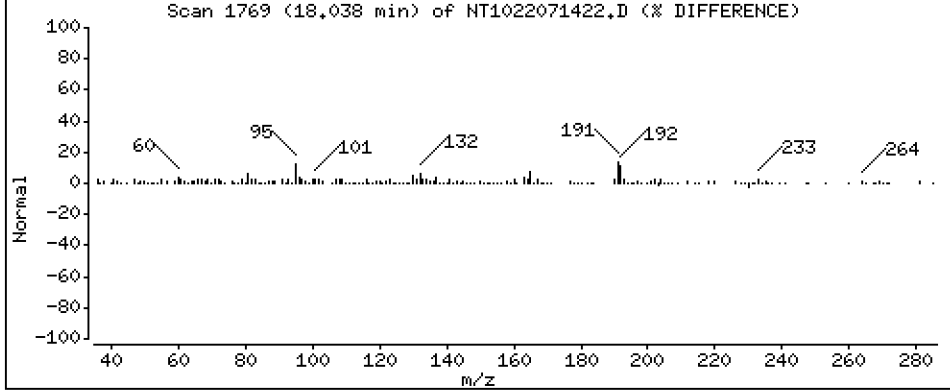
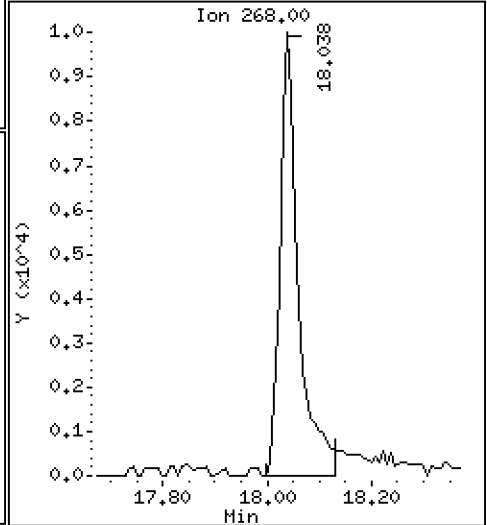
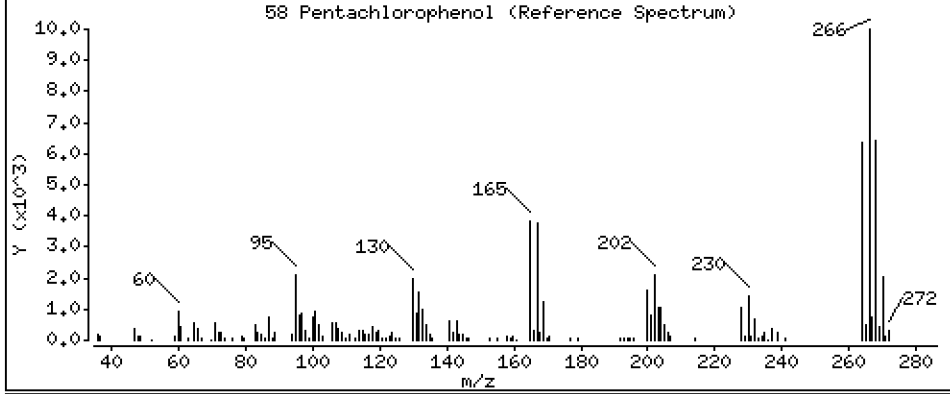
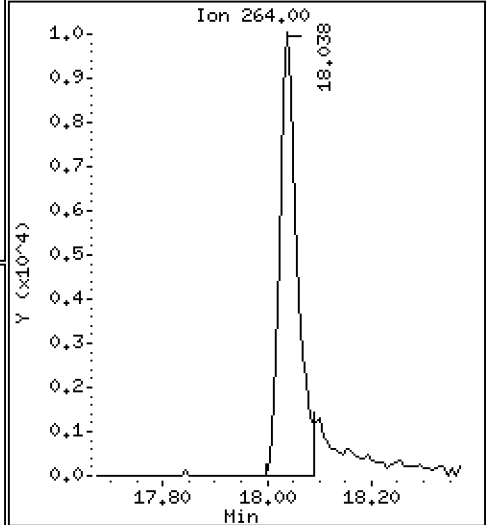
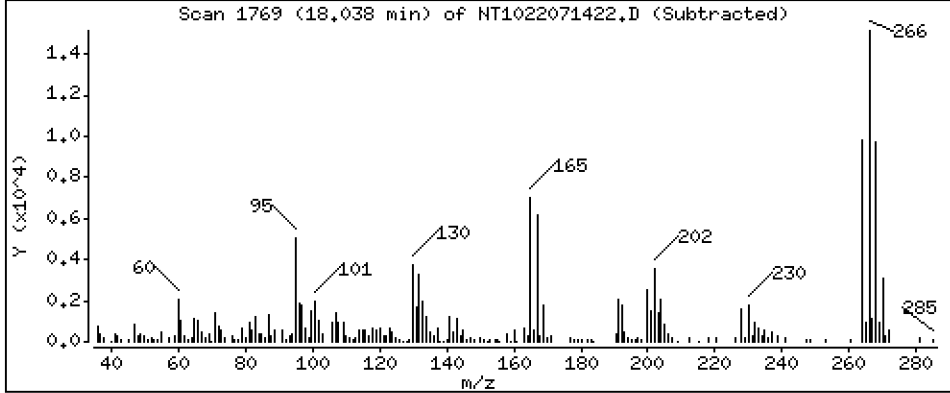
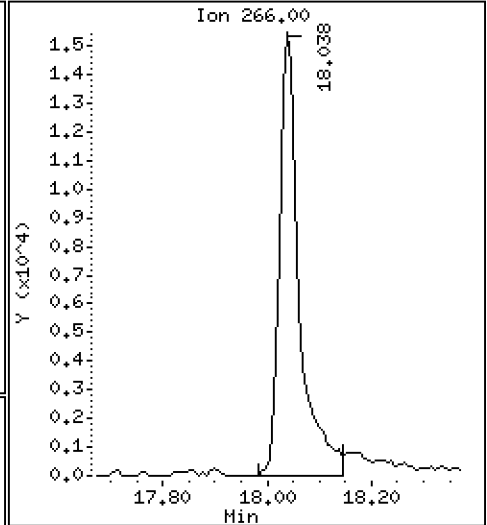
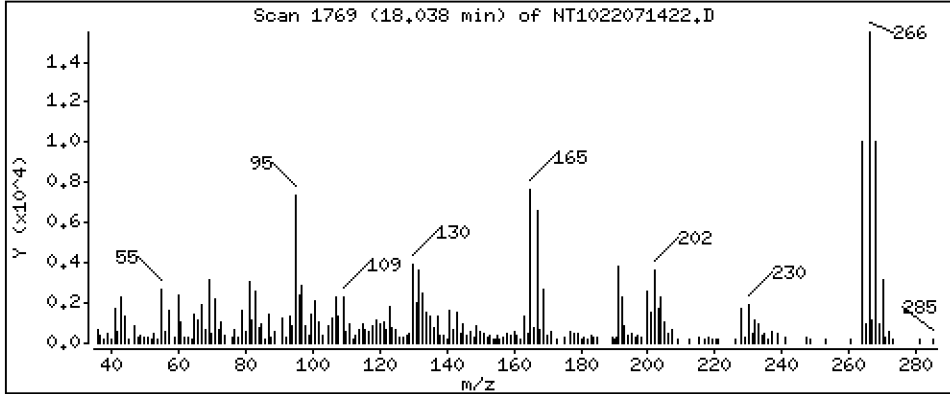
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 5,837 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

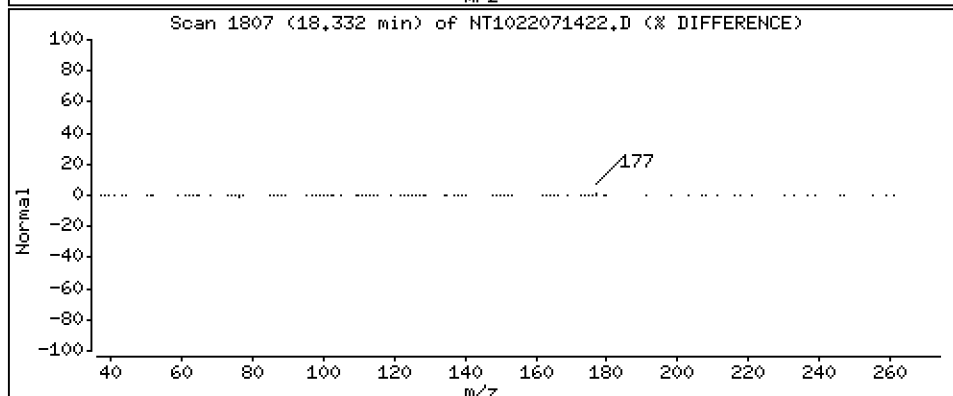
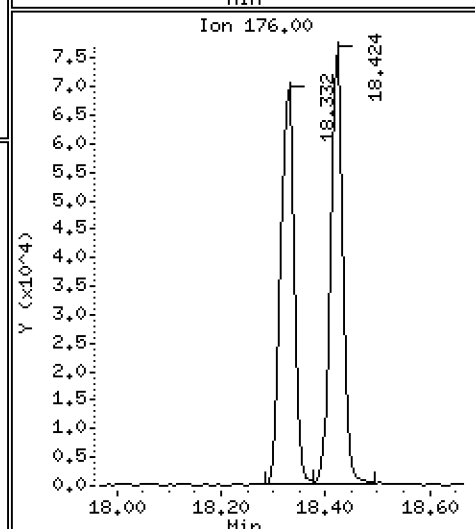
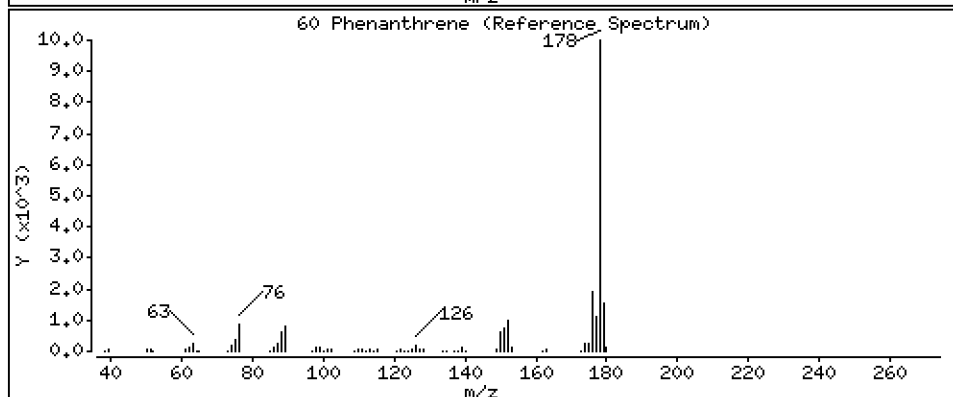
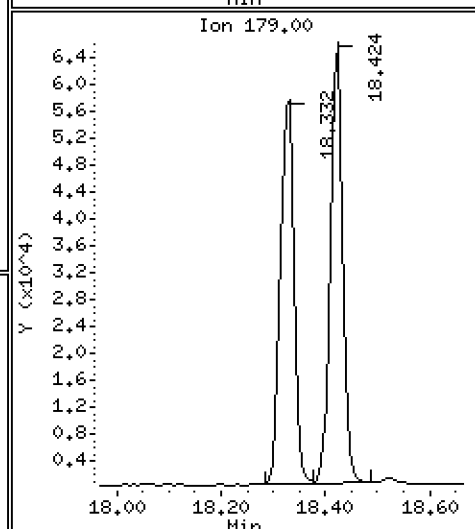
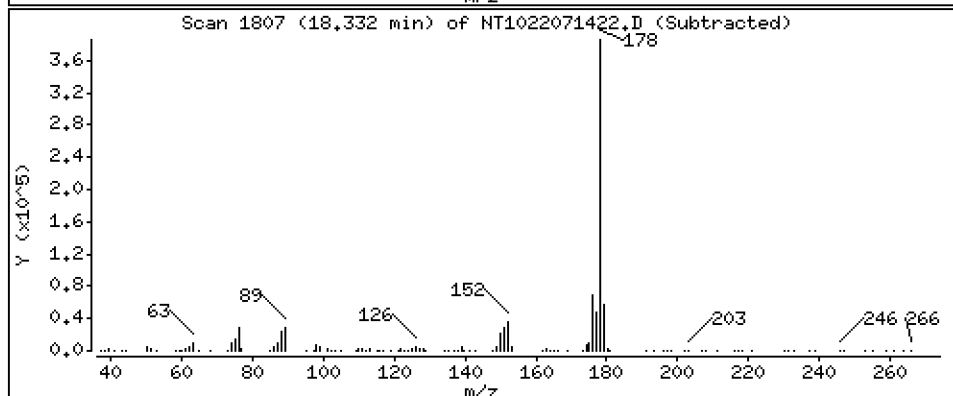
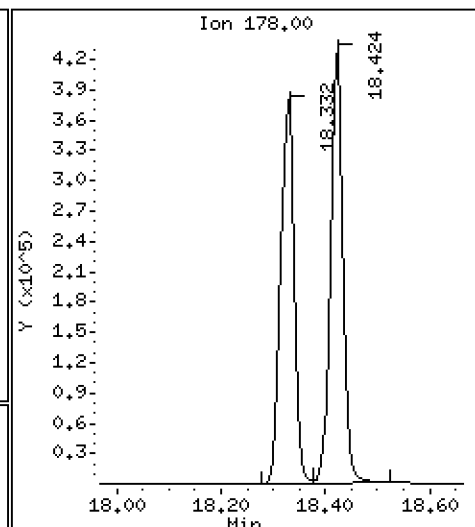
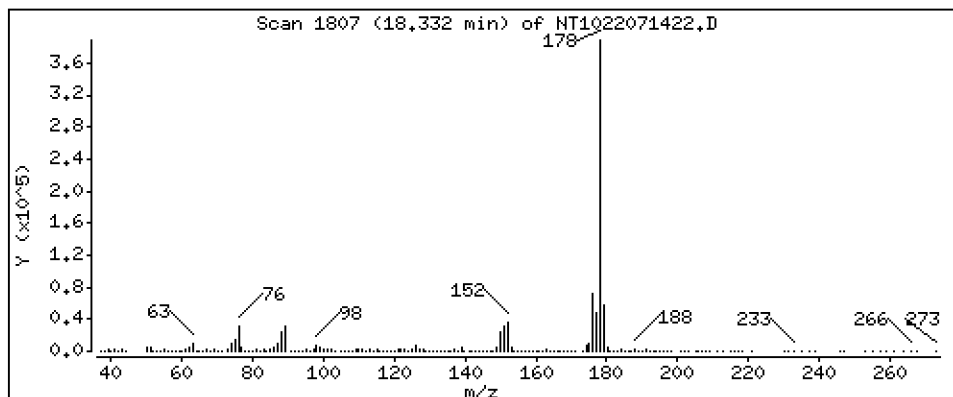
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 5,440 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

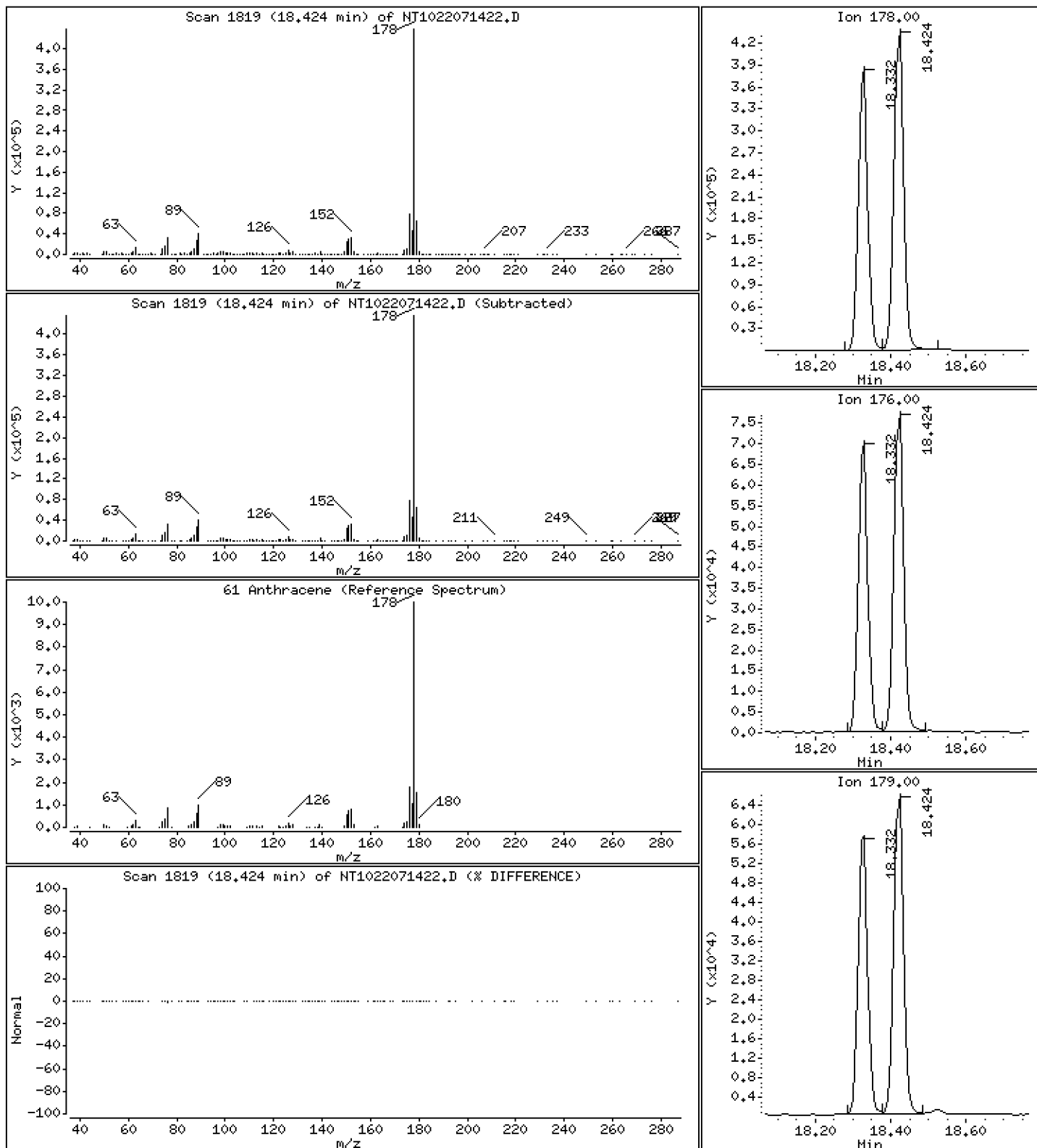
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 5,622 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

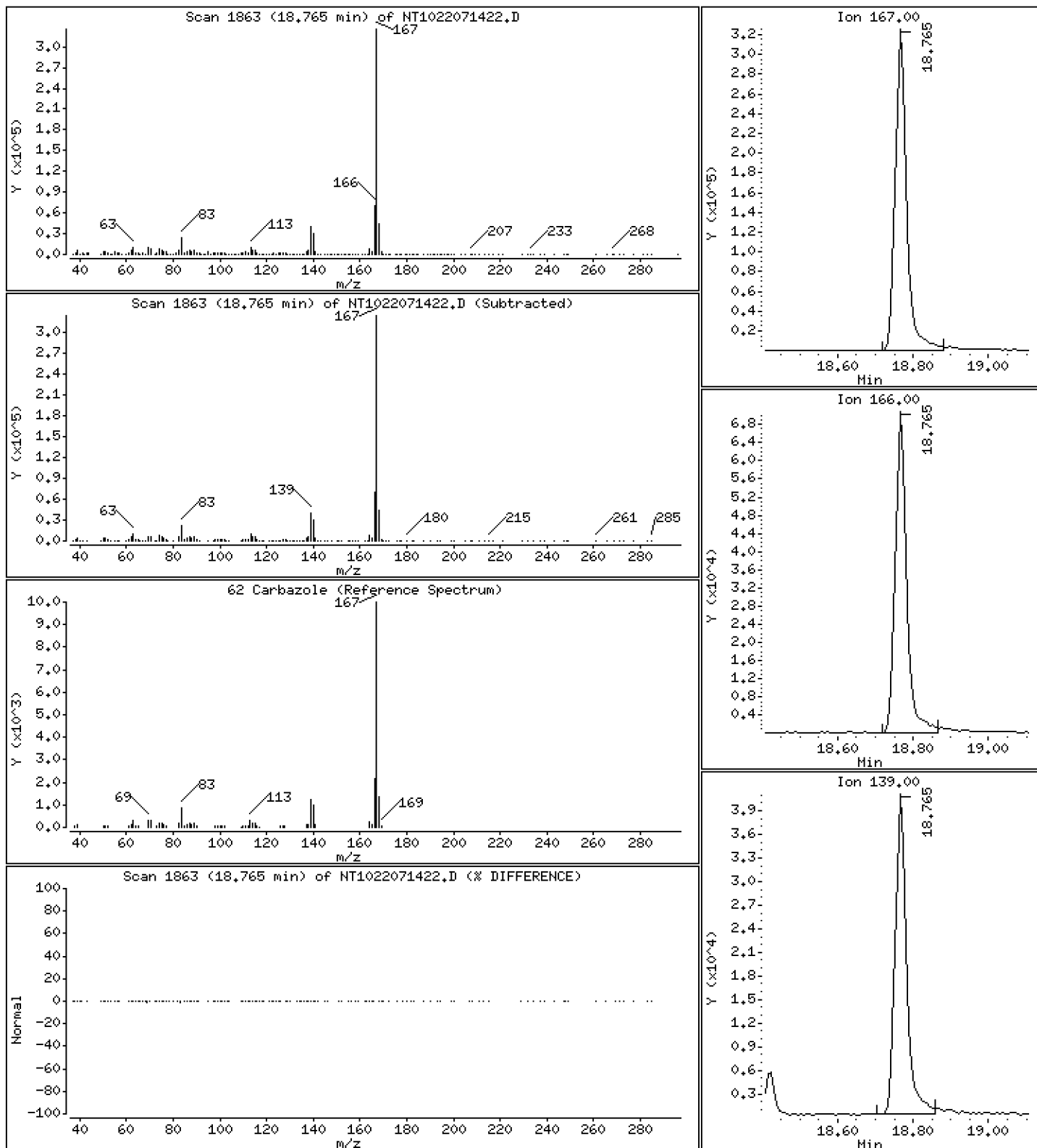
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,562 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

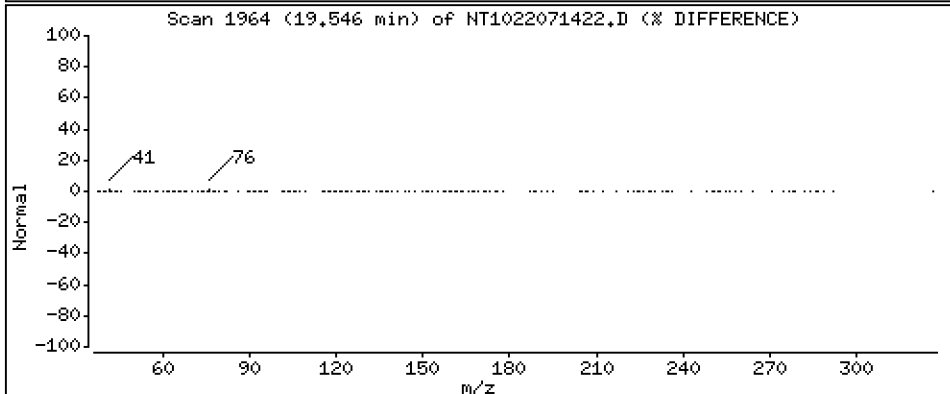
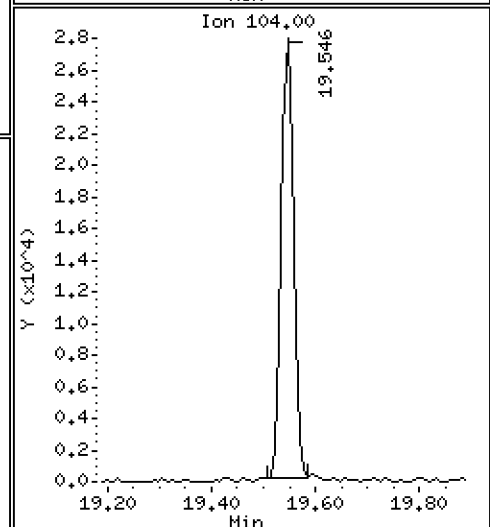
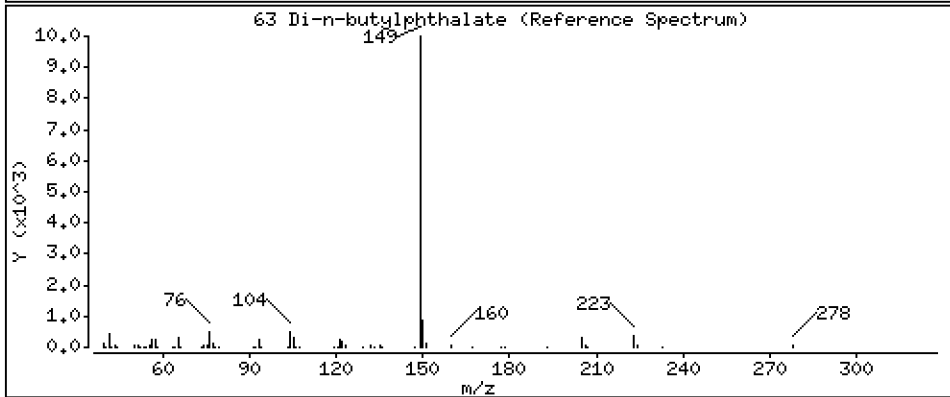
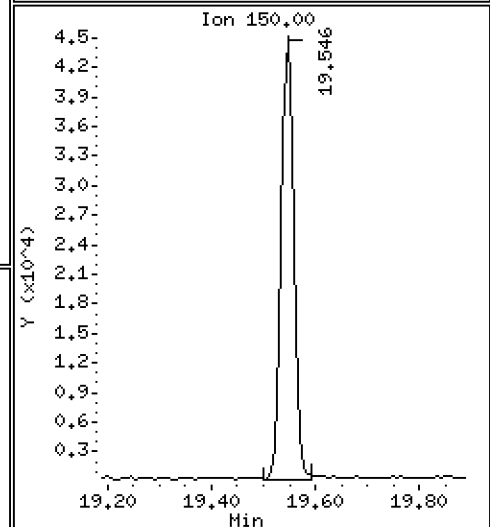
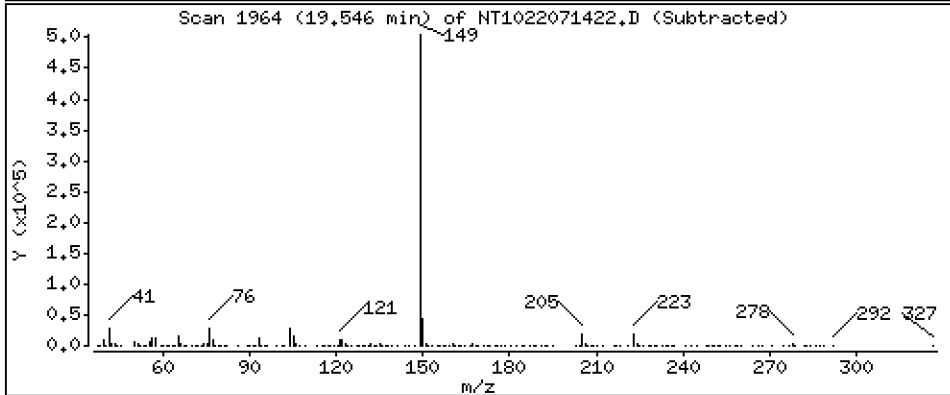
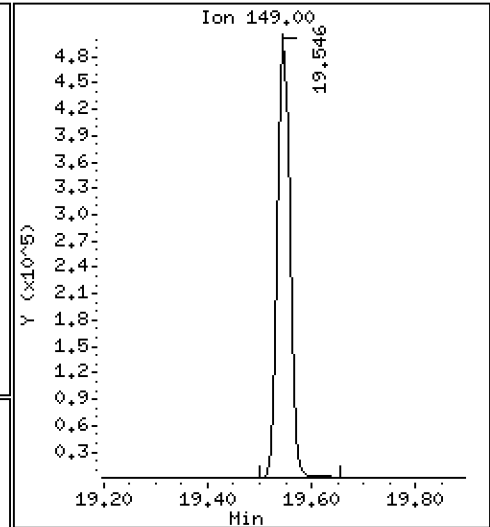
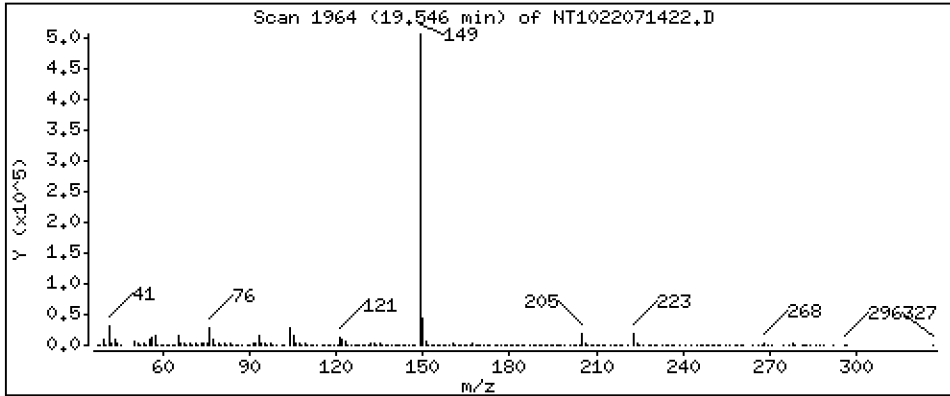
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,273 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

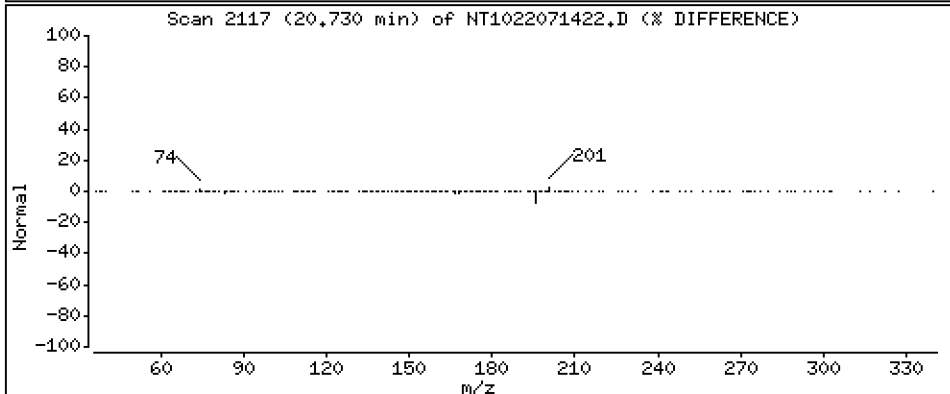
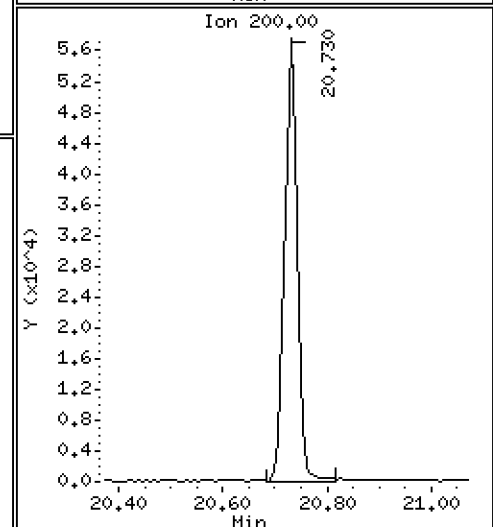
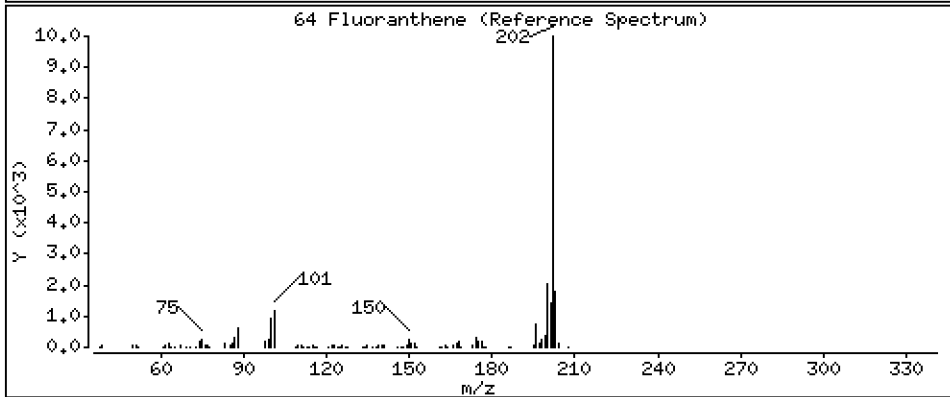
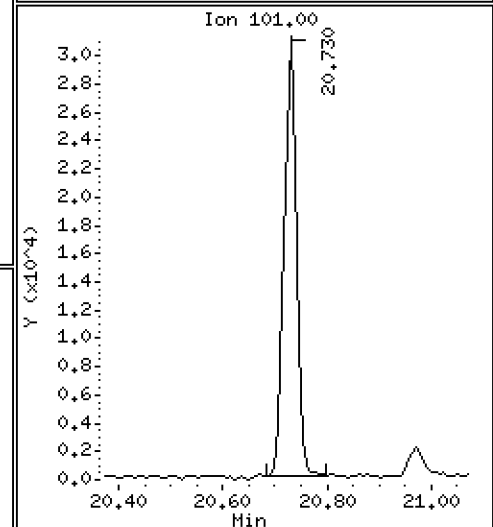
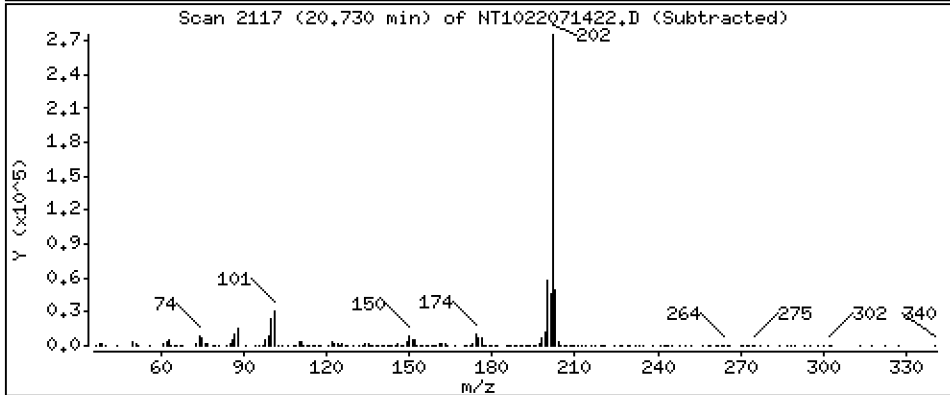
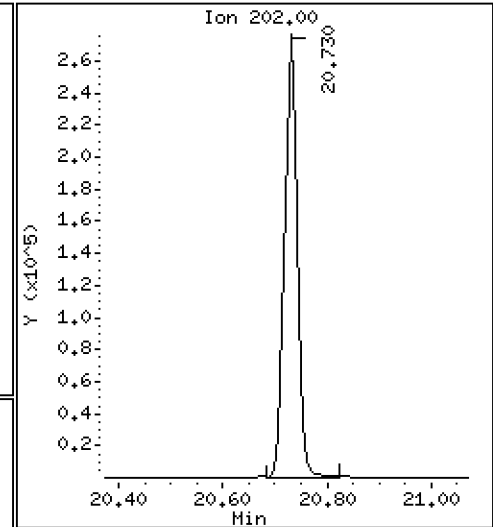
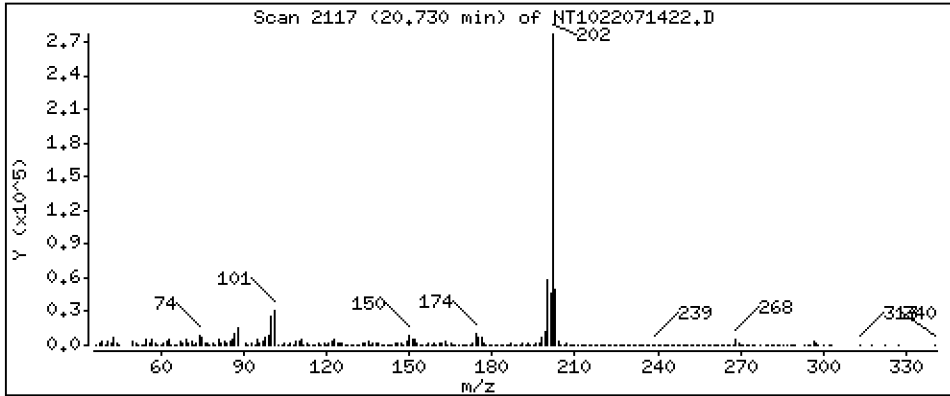
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 3,591 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

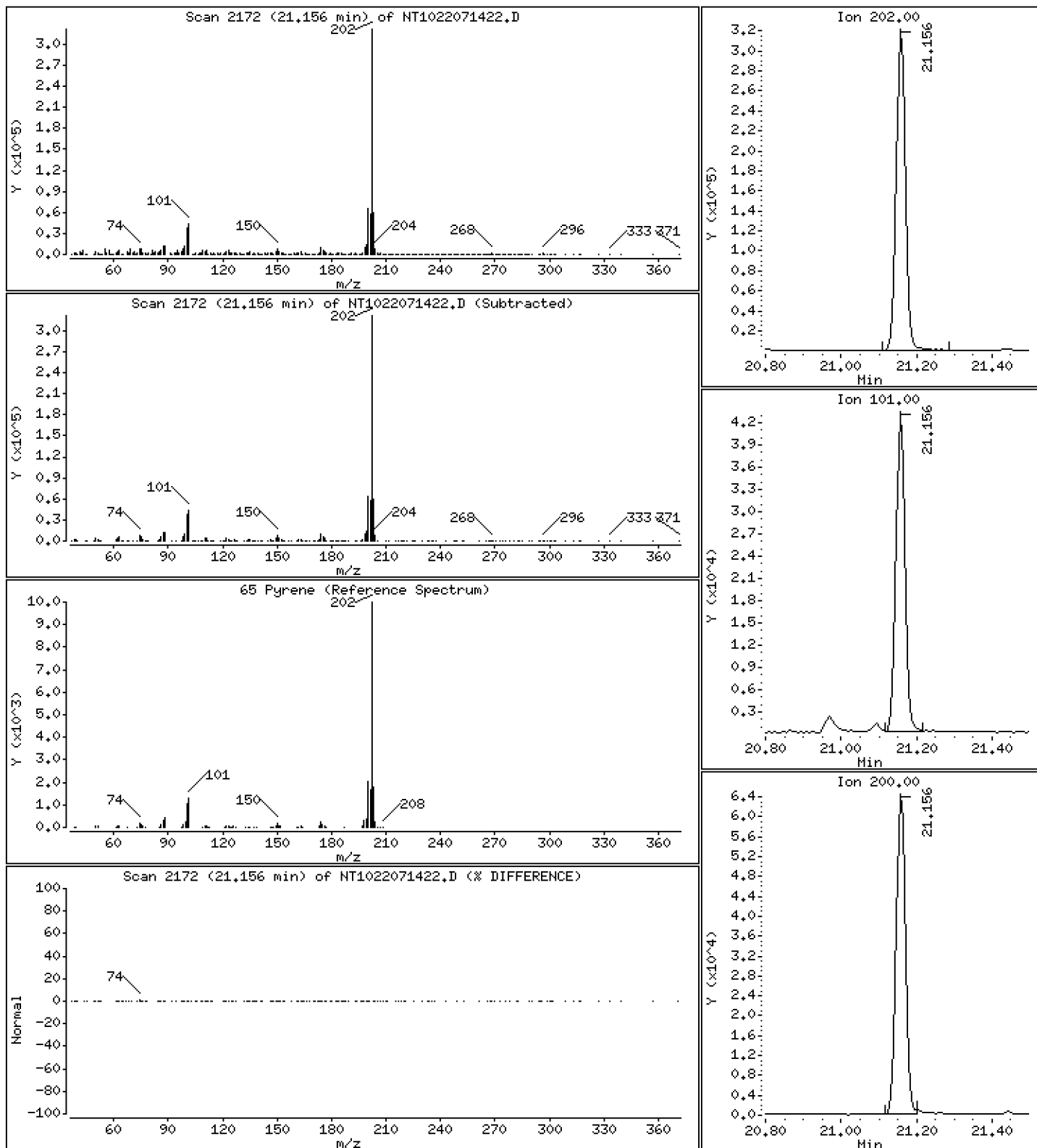
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,596 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

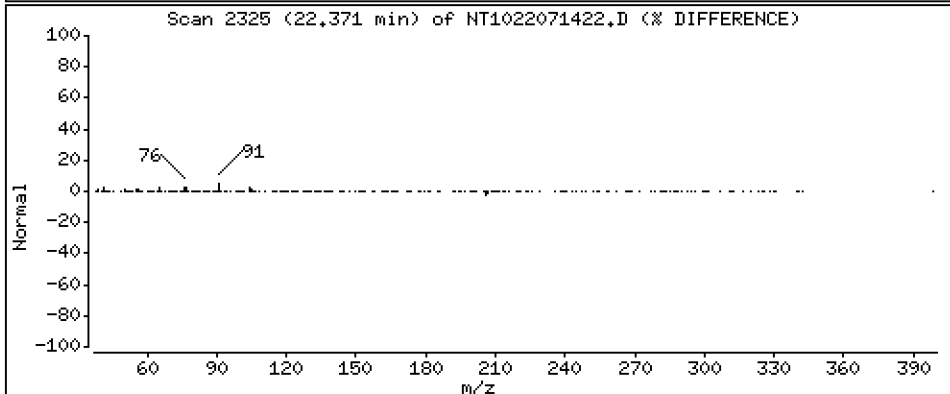
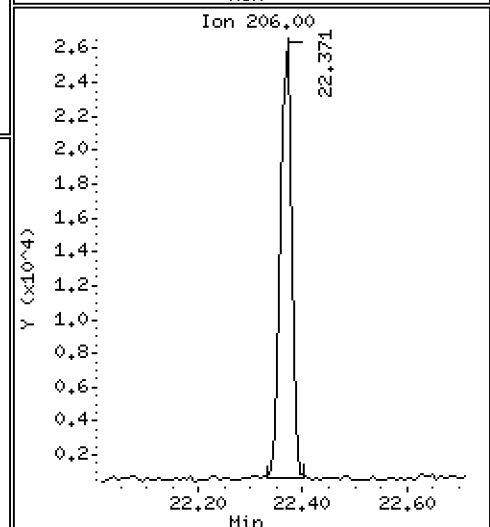
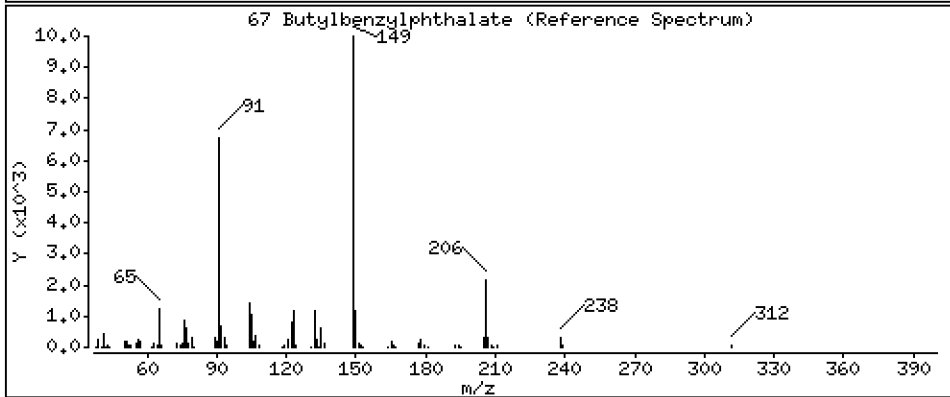
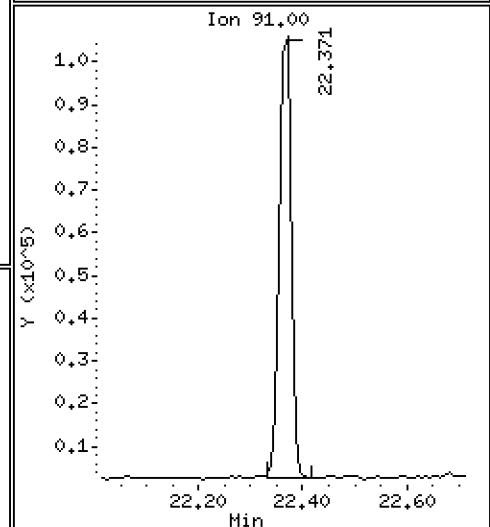
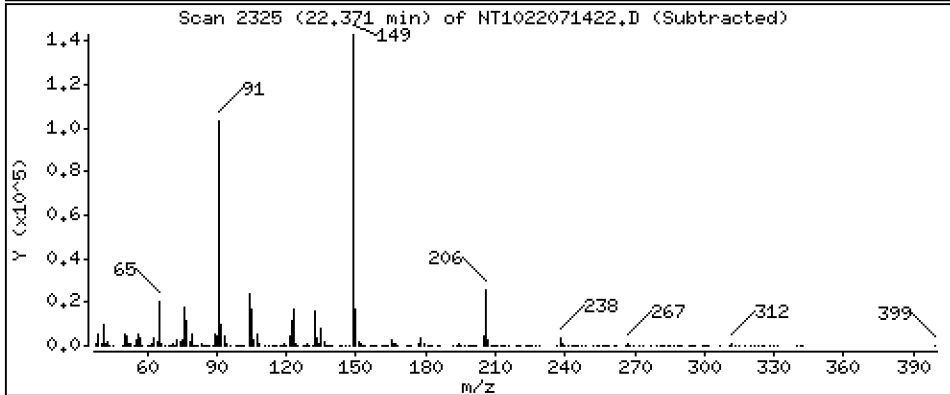
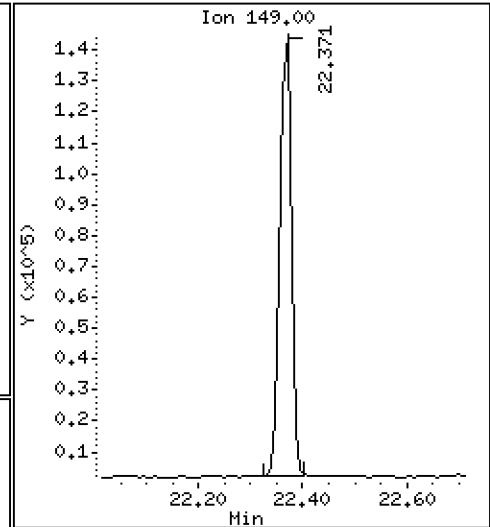
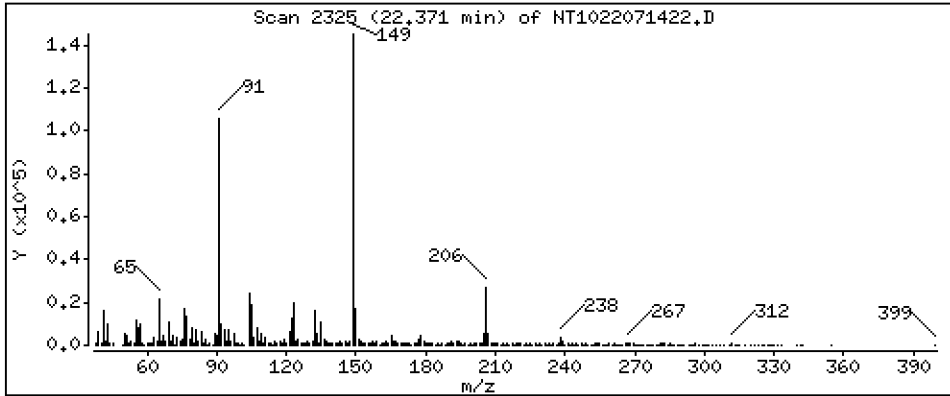
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,786 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

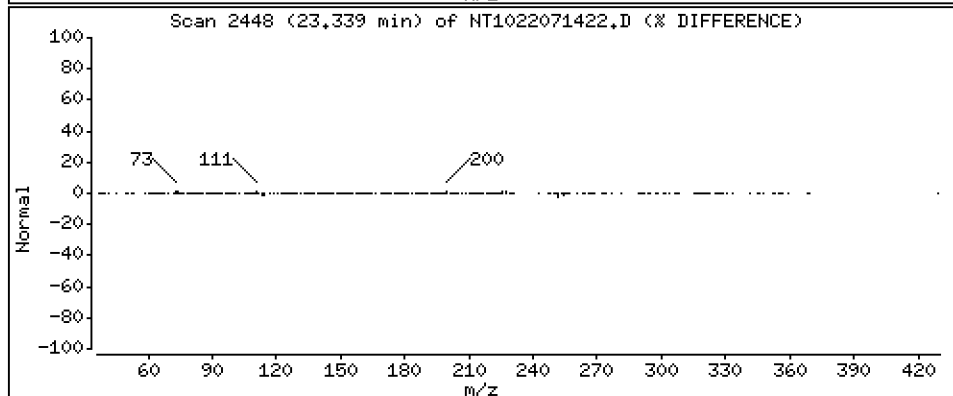
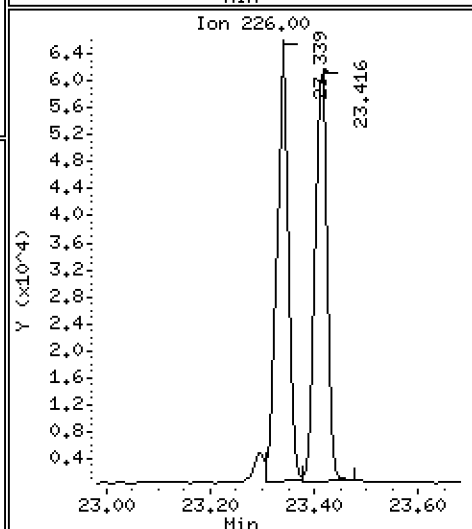
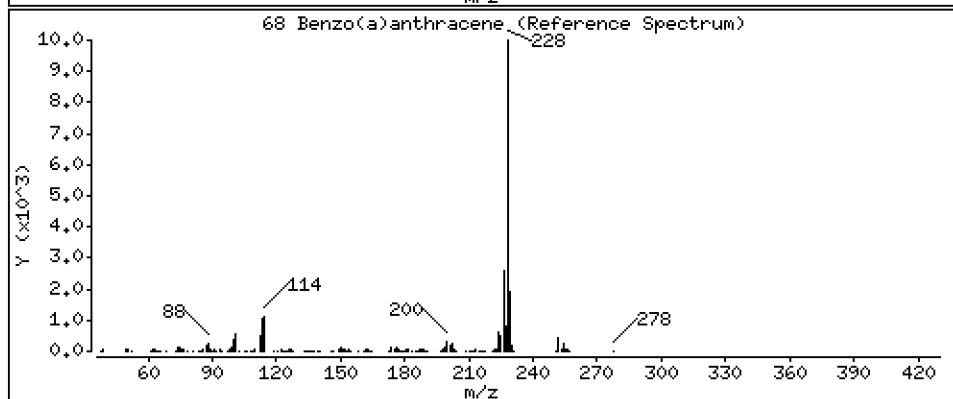
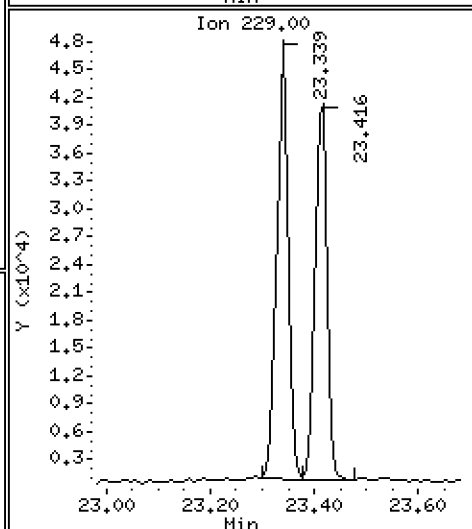
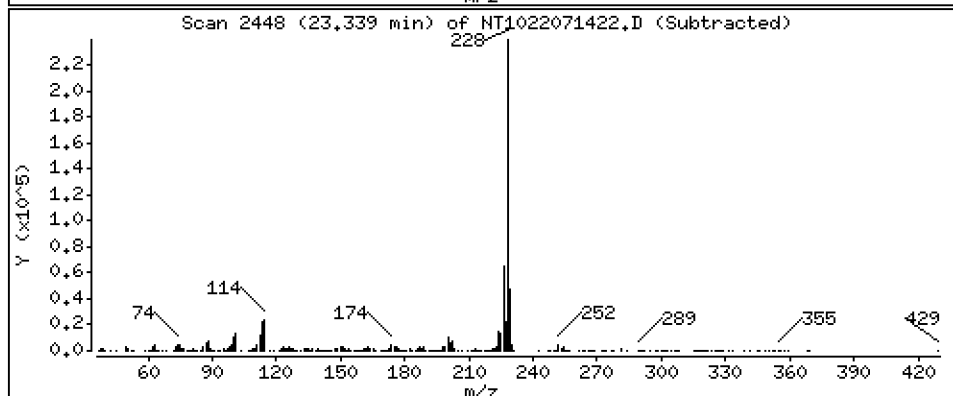
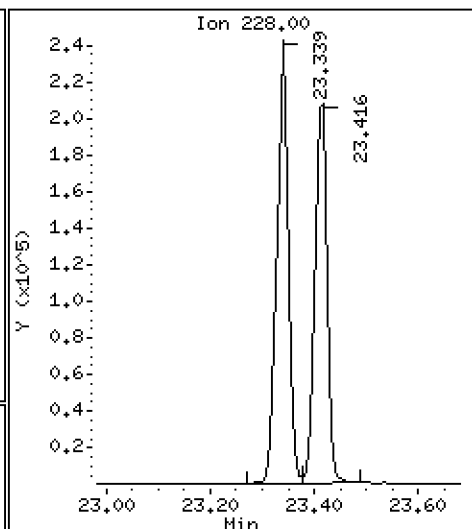
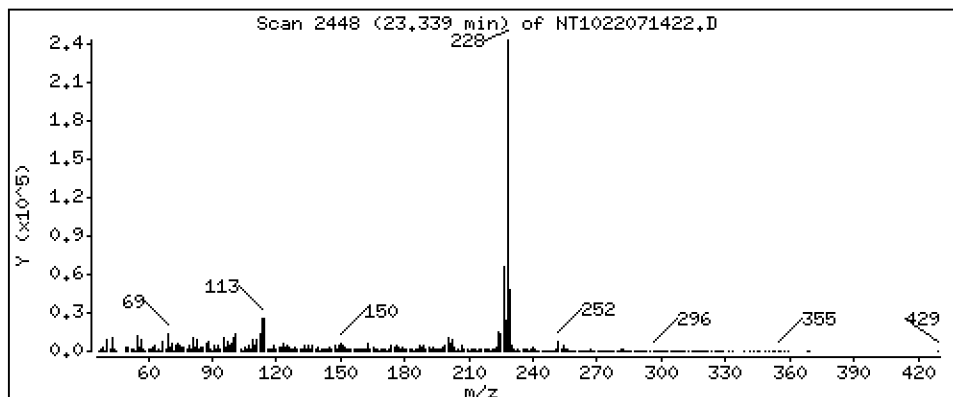
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,820 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

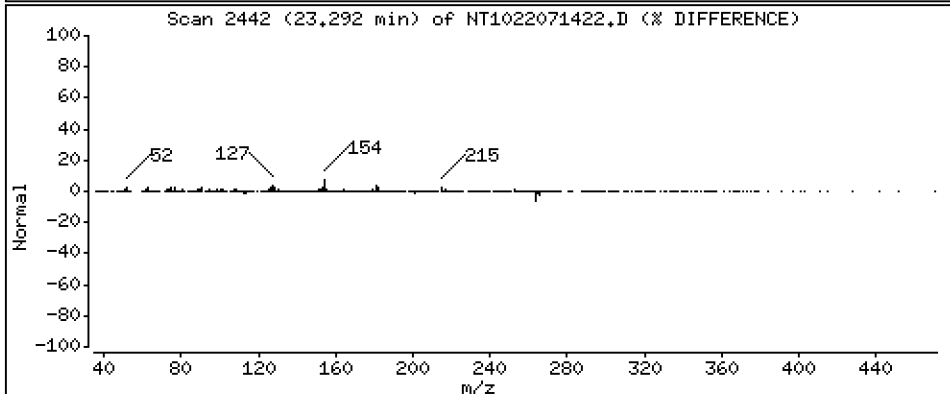
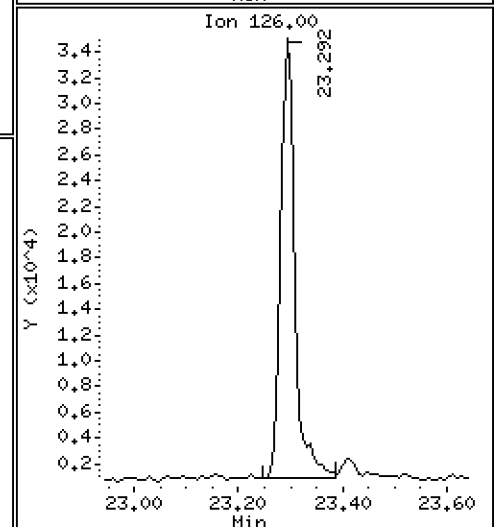
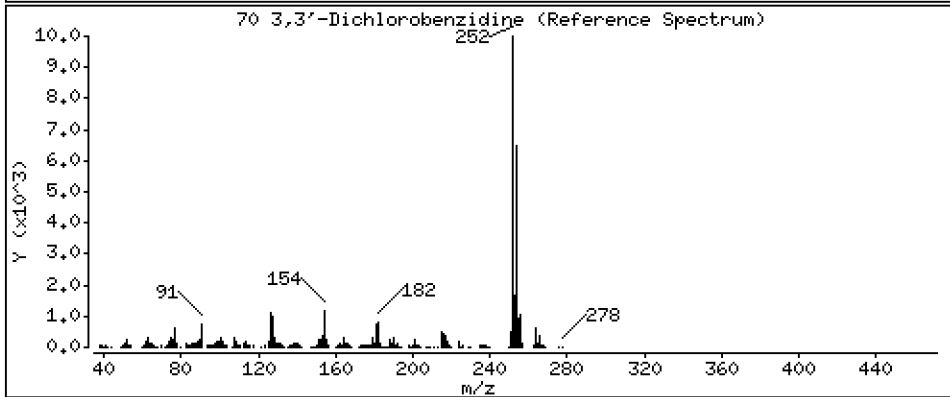
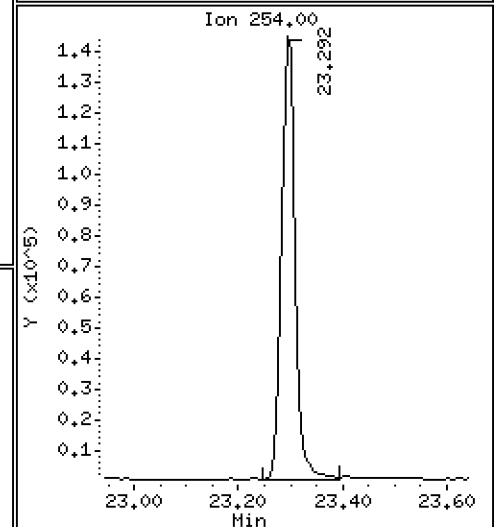
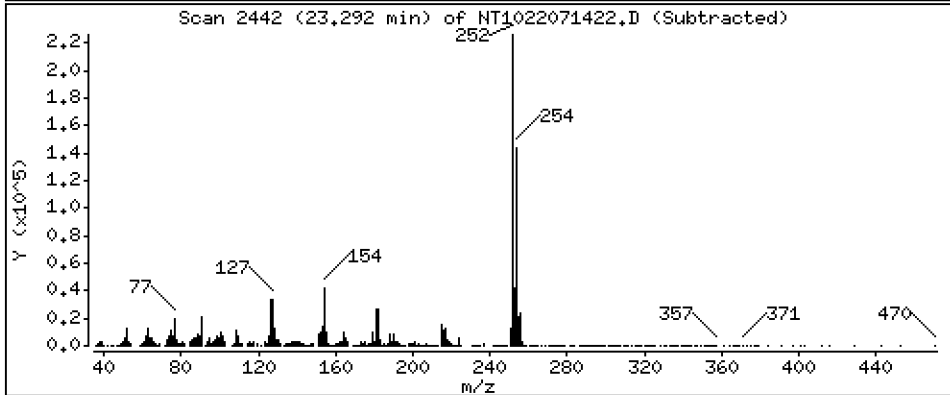
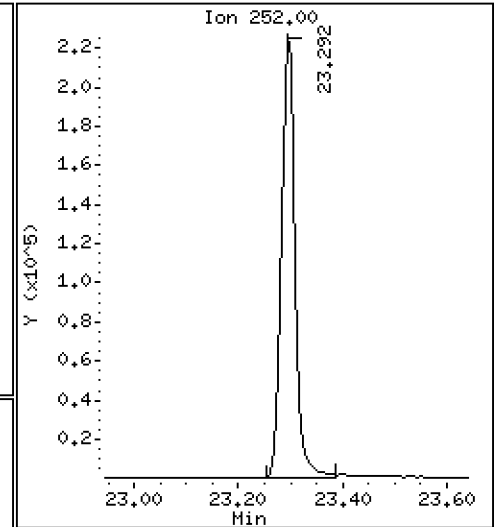
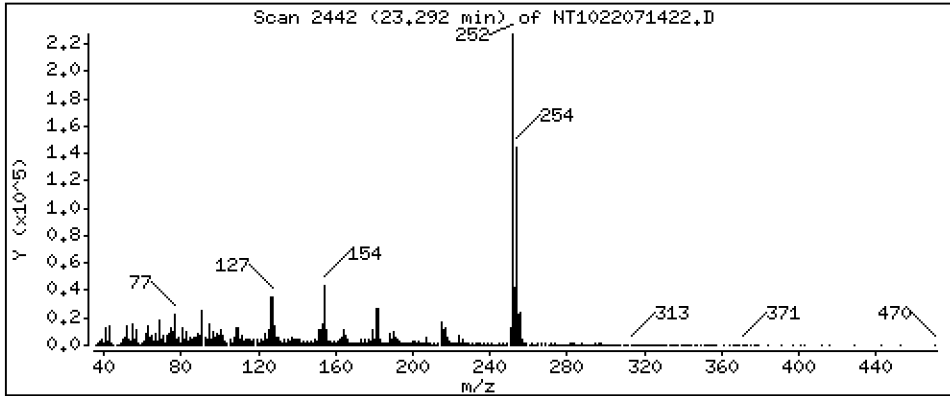
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 15,87 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

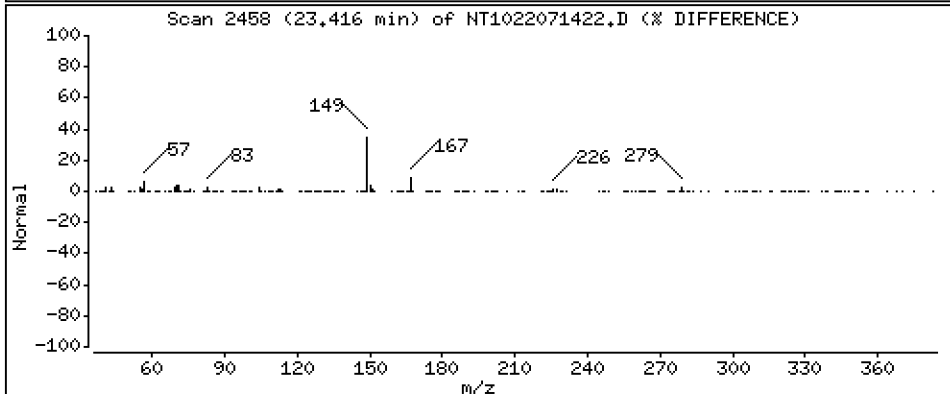
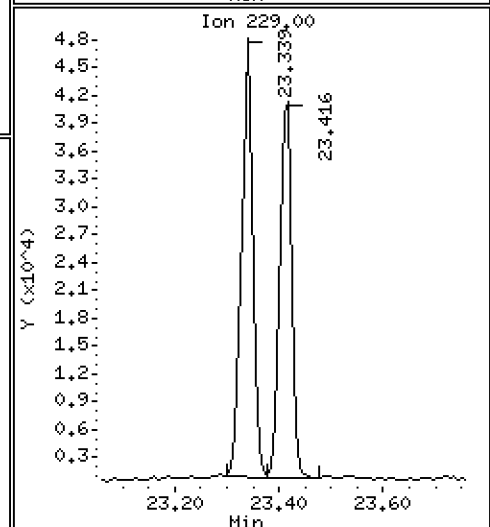
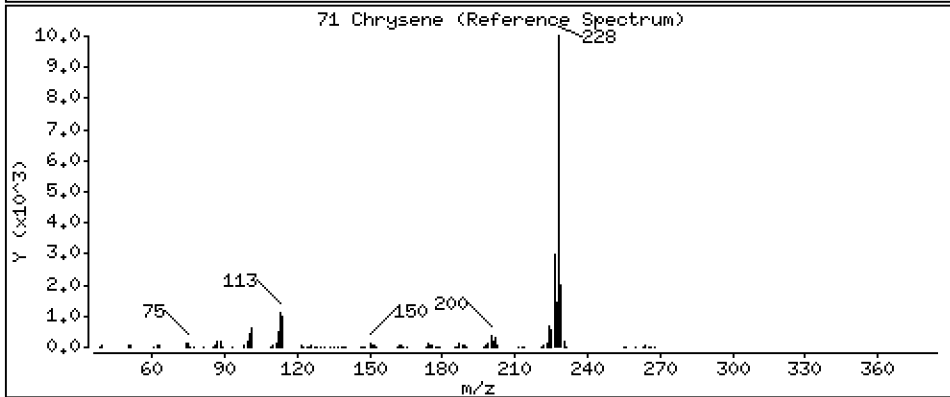
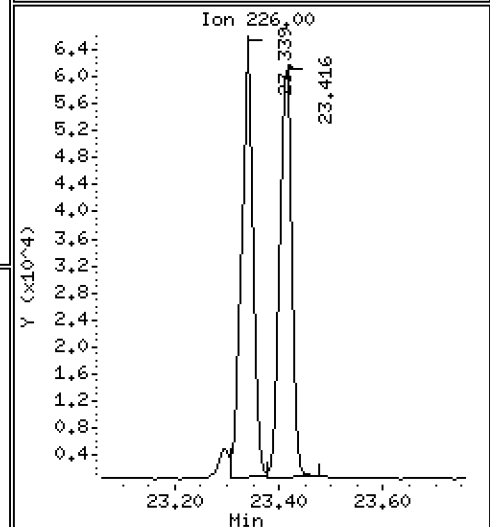
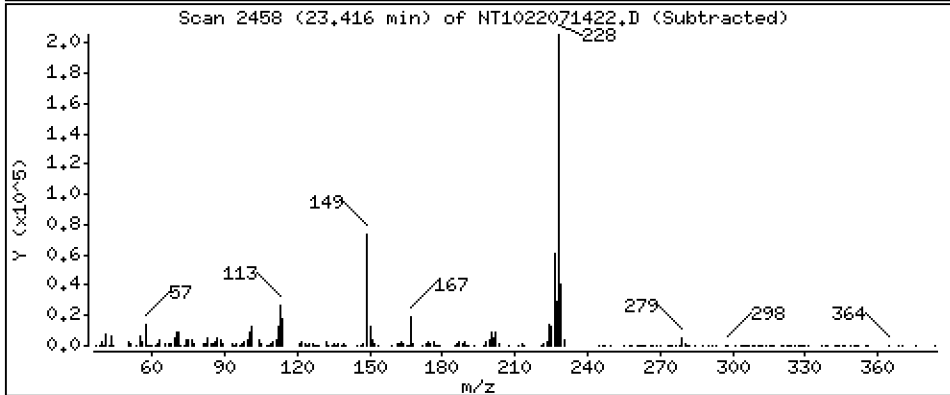
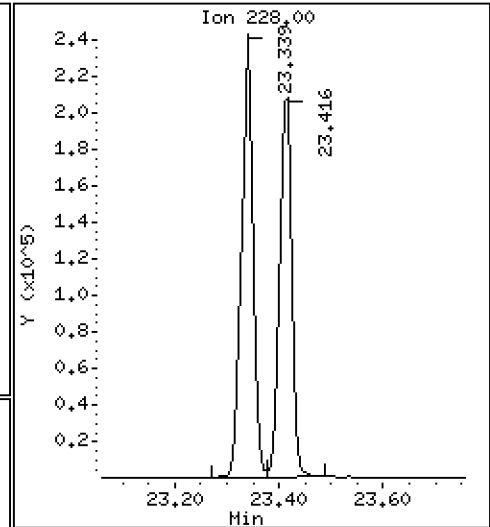
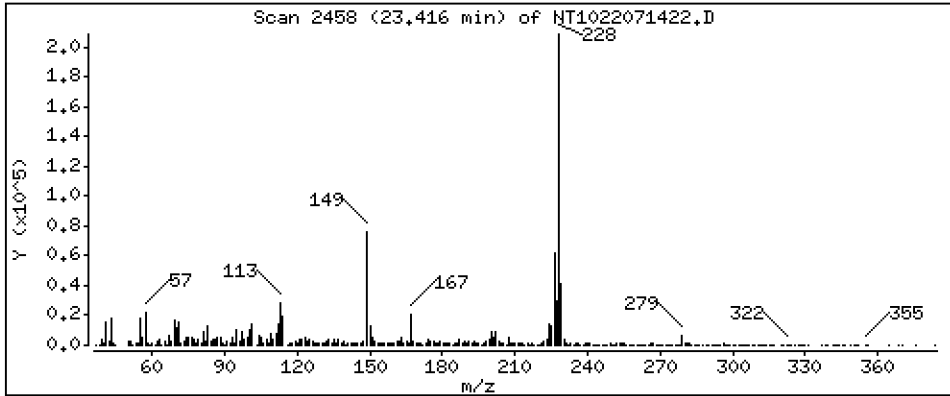
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 6,122 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

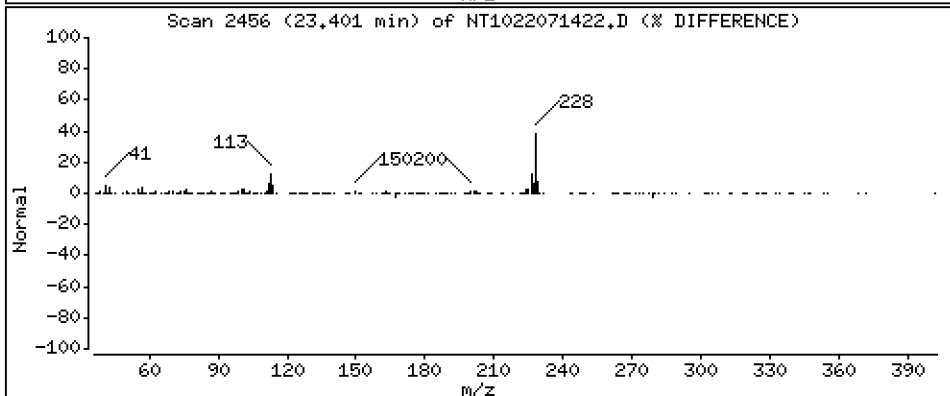
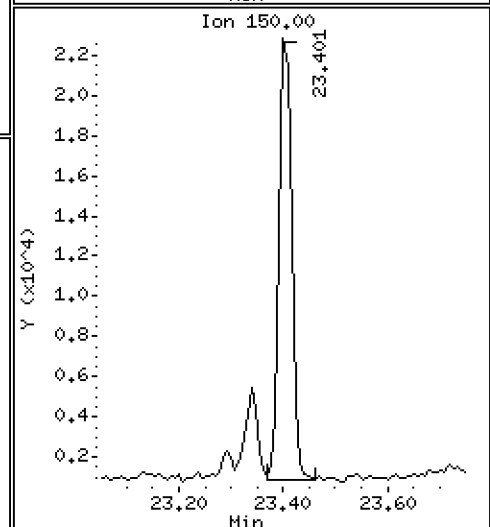
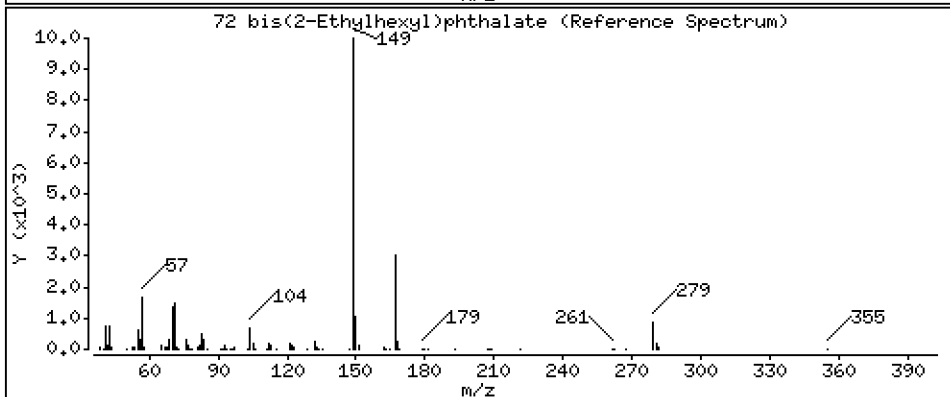
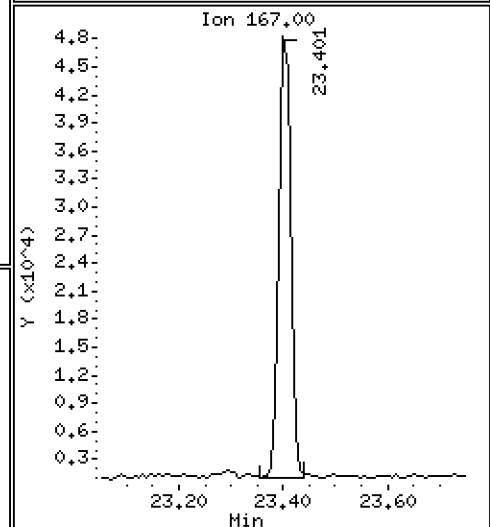
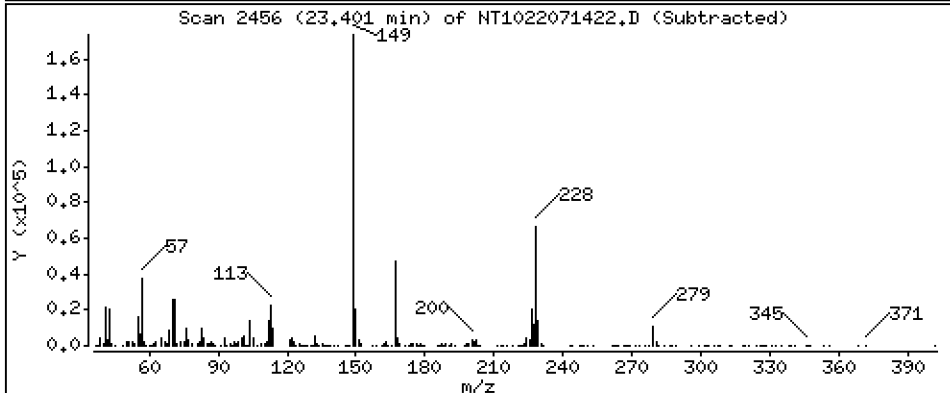
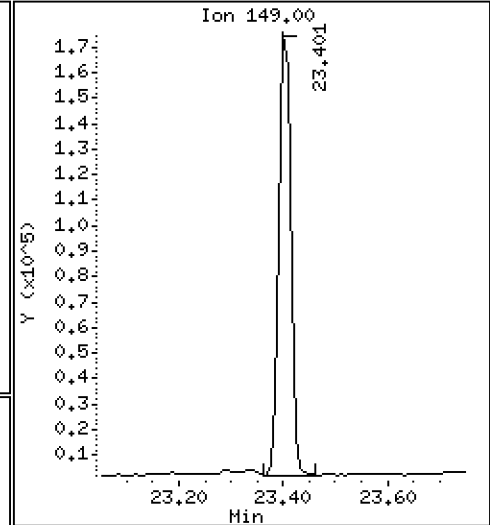
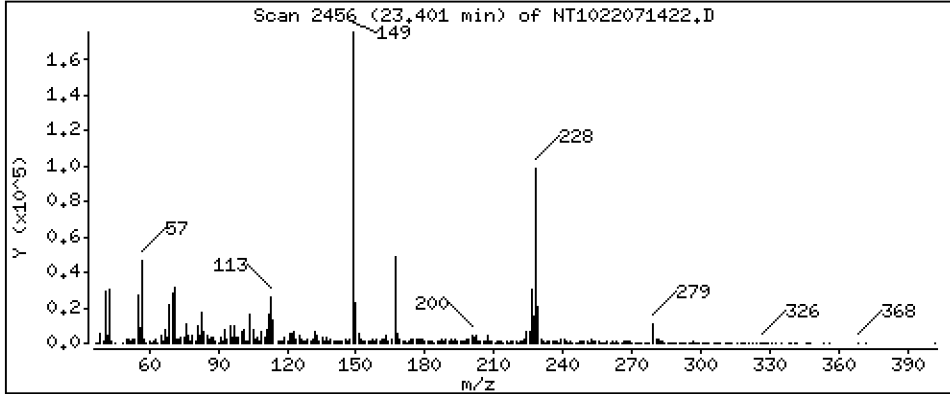
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 6,386 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

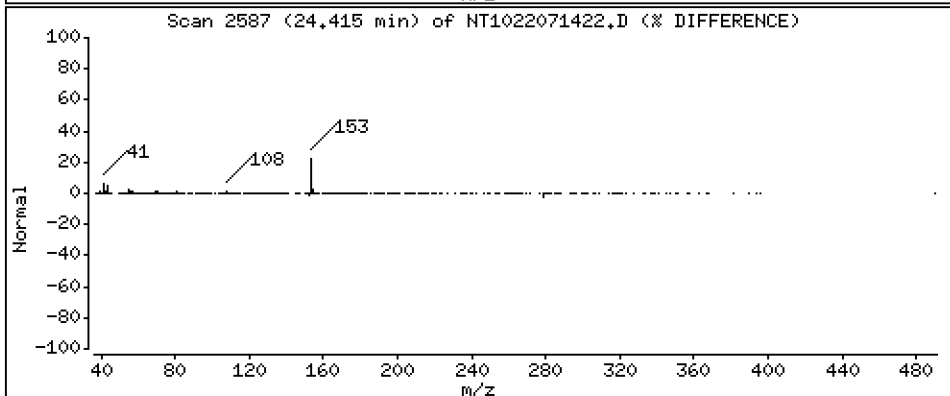
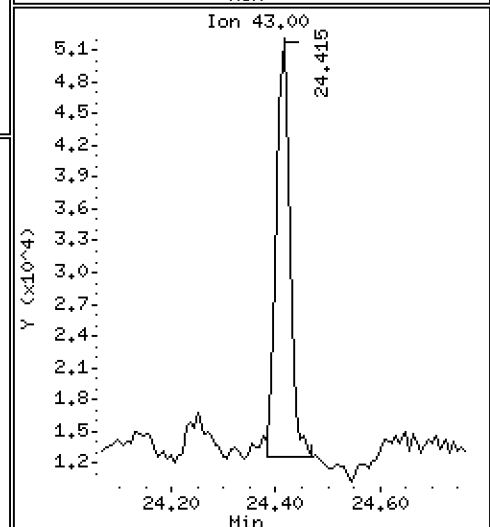
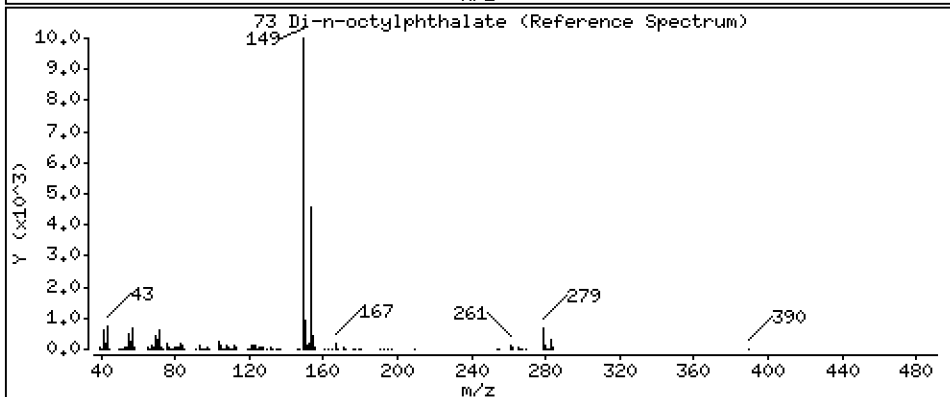
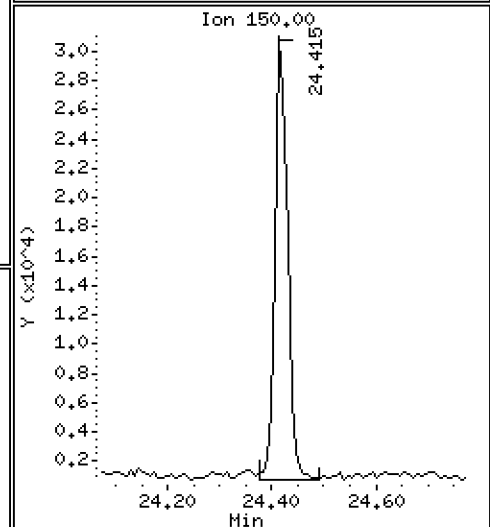
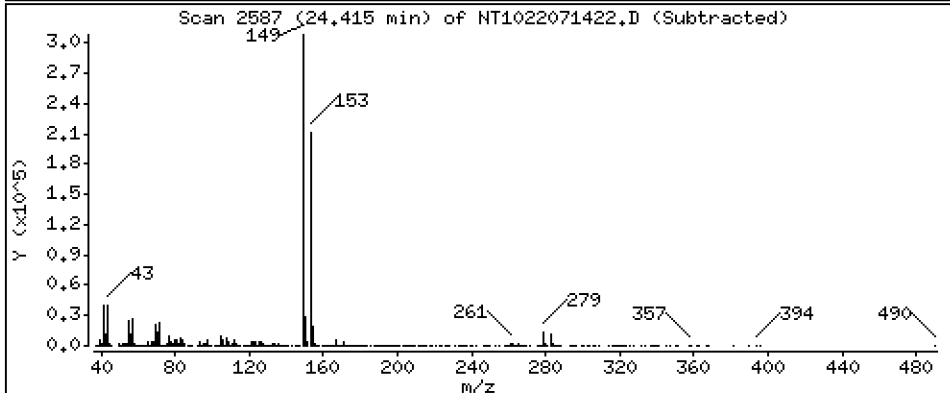
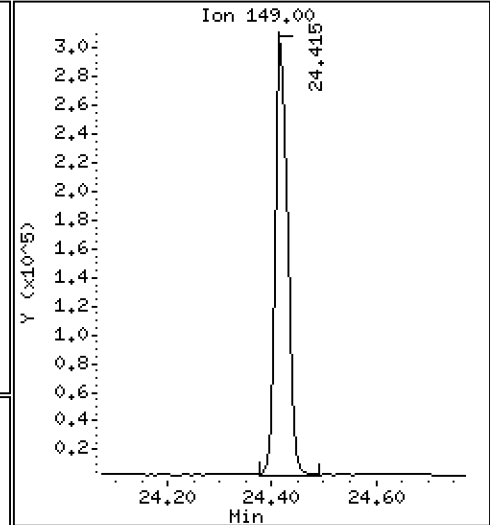
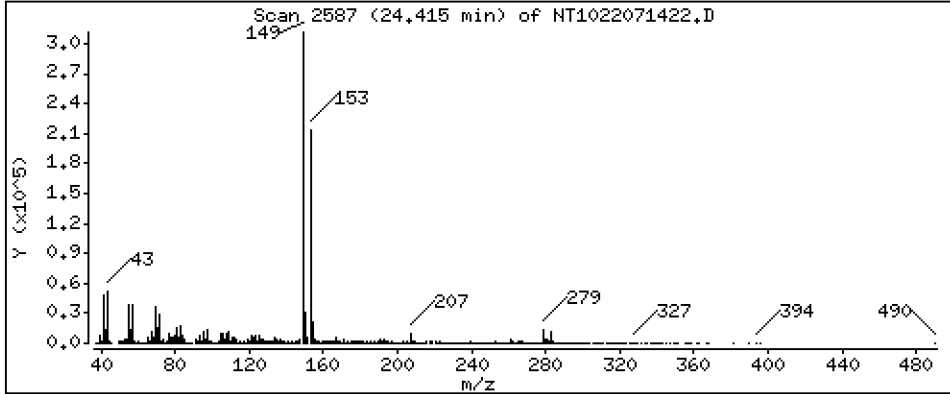
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,685 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

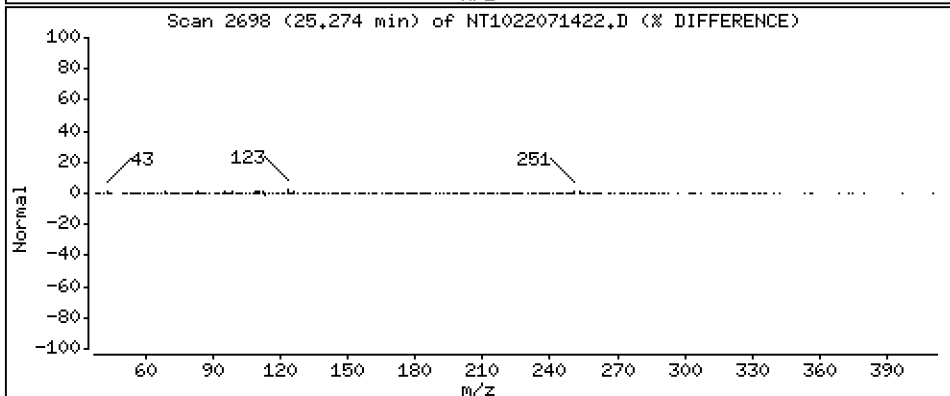
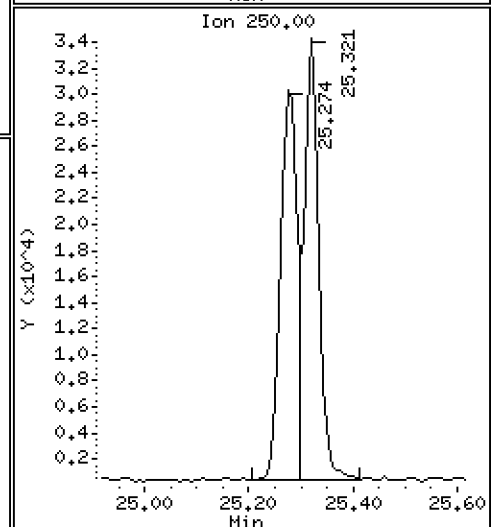
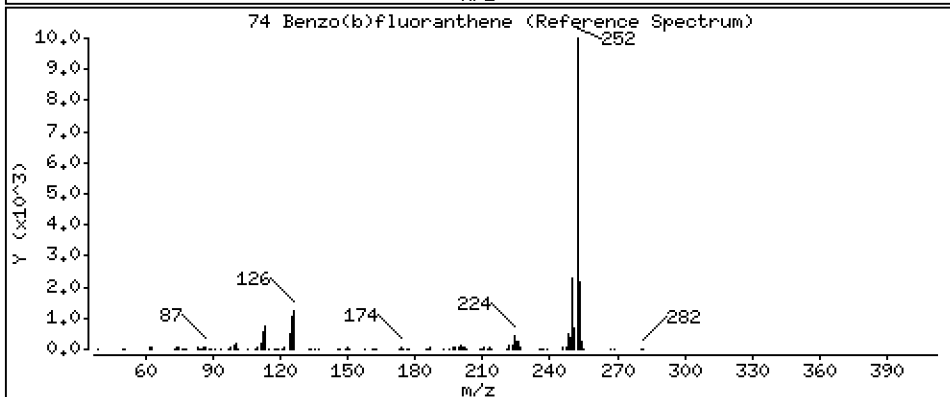
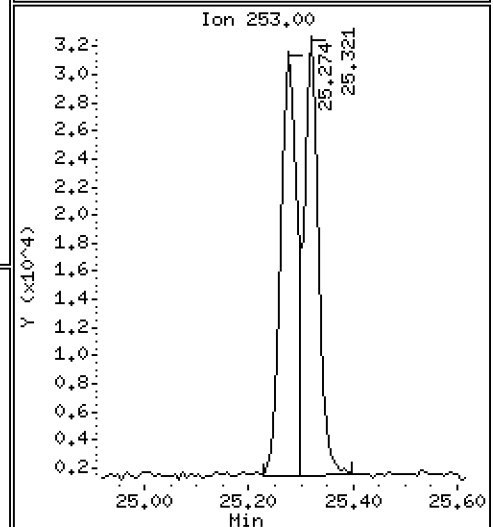
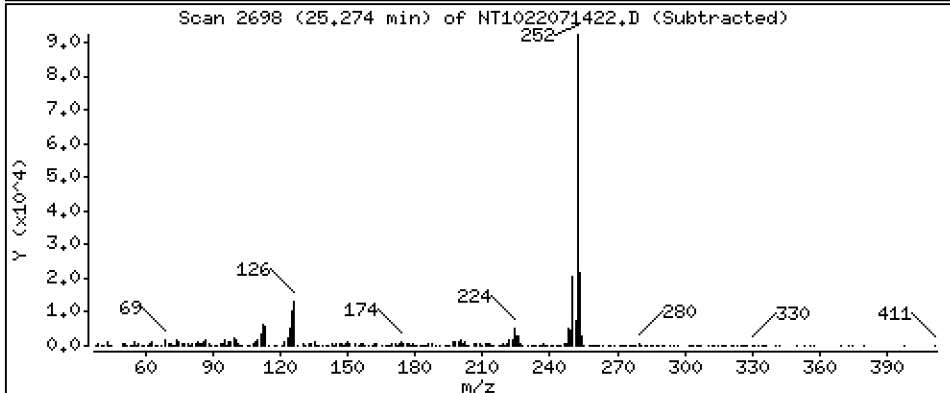
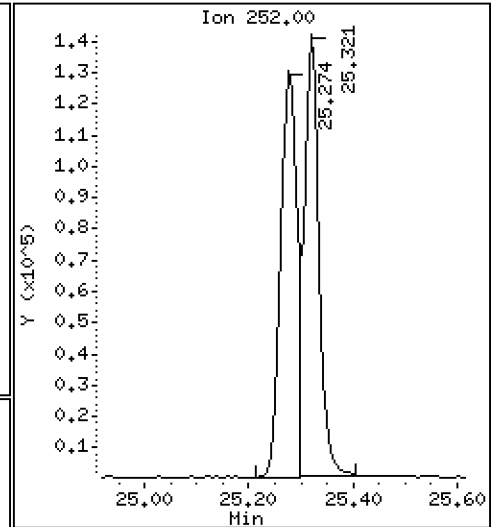
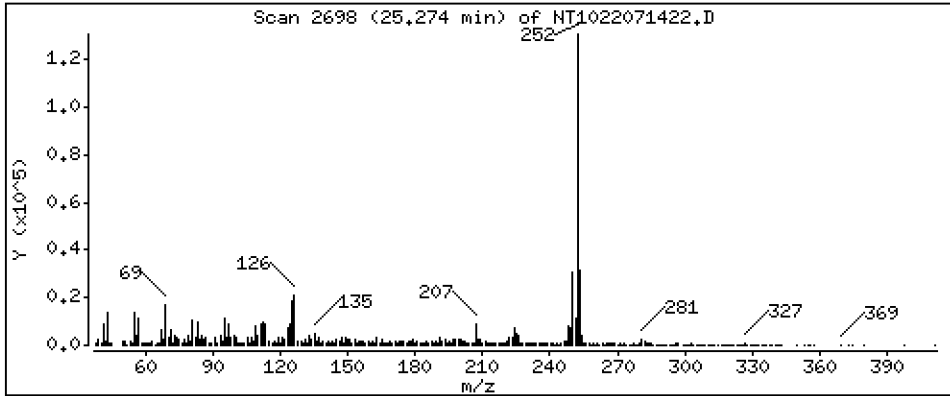
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,751 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

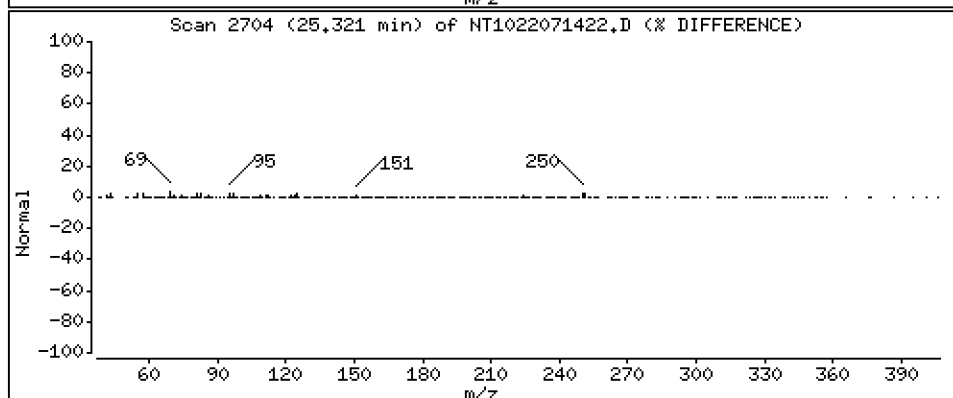
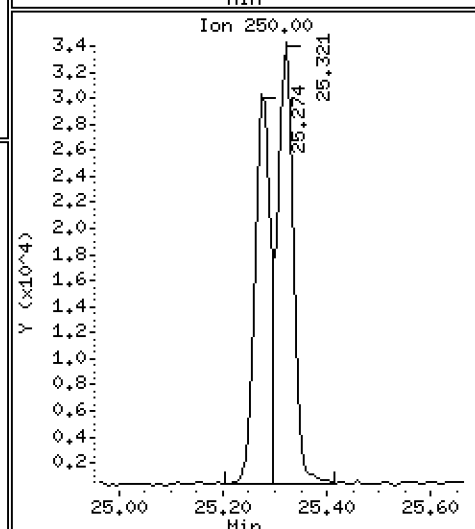
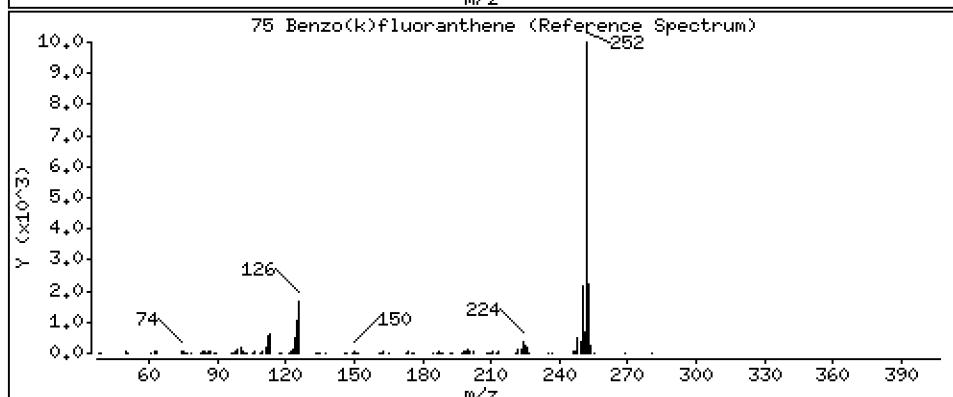
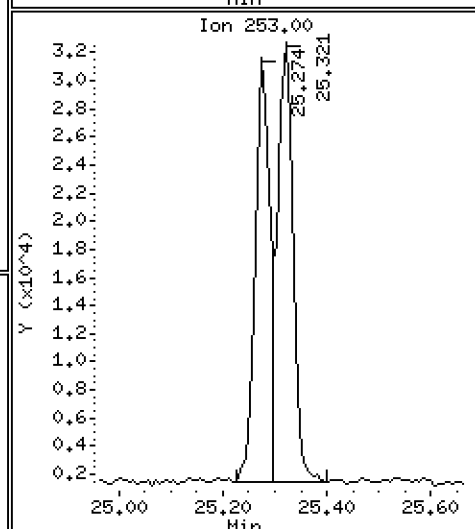
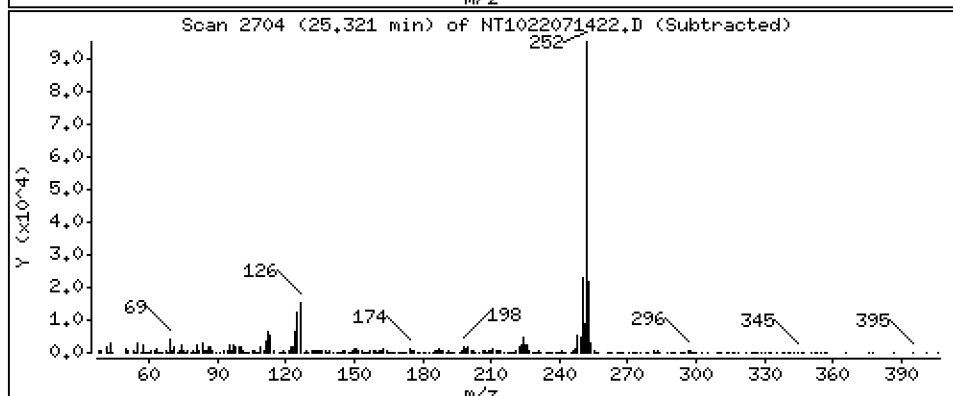
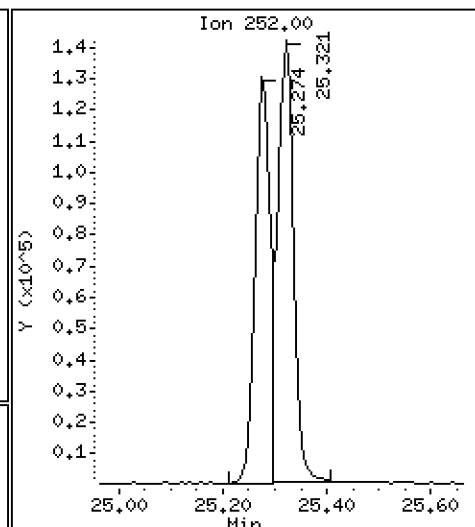
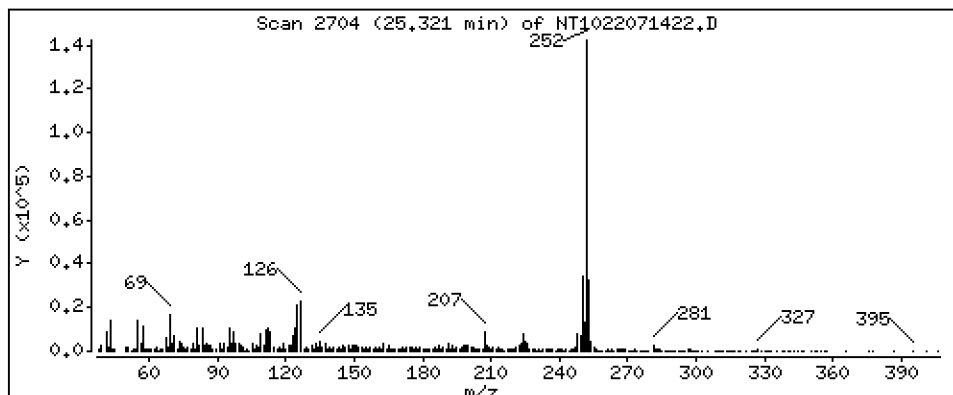
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 5,352 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

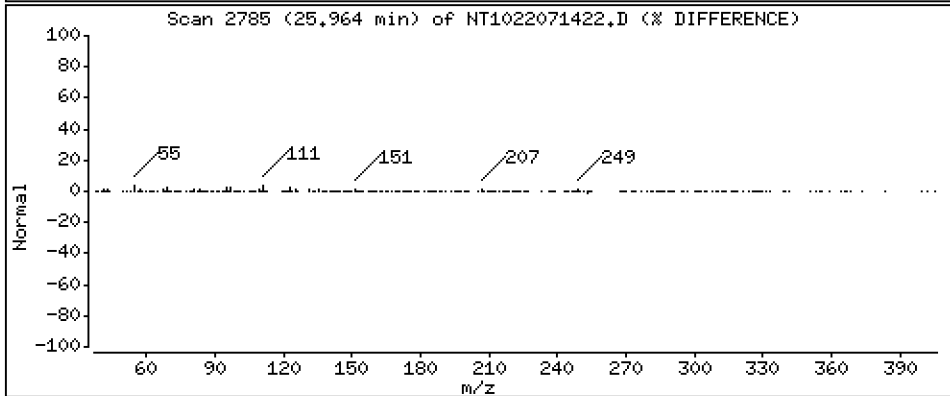
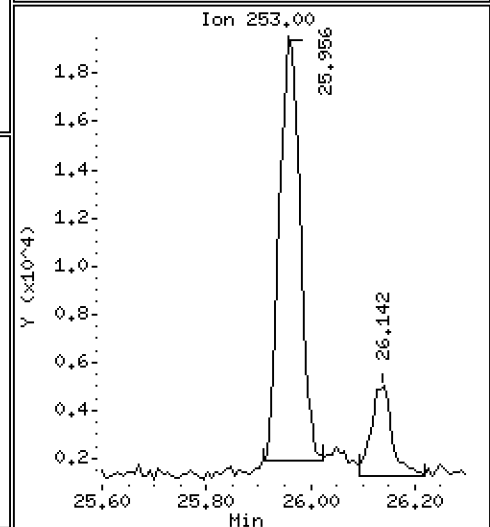
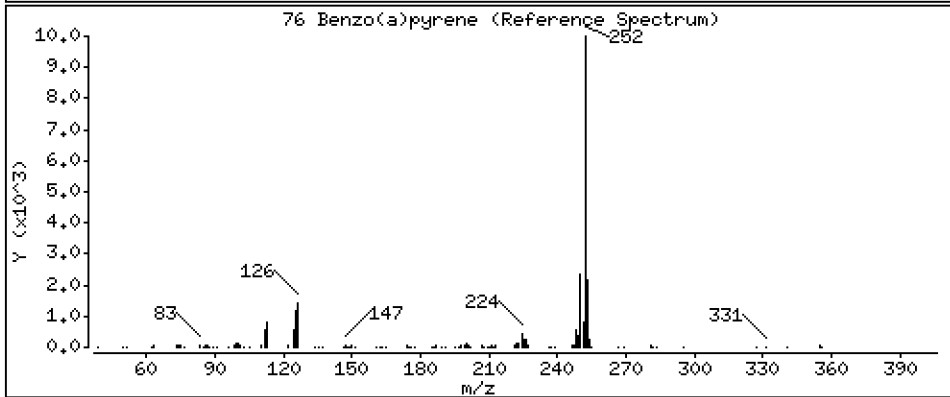
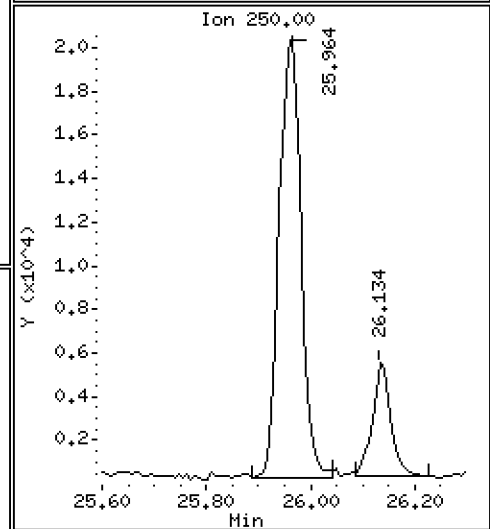
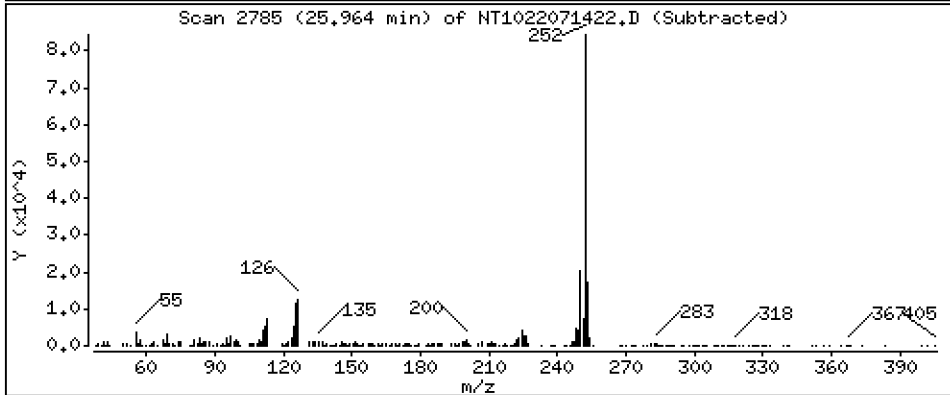
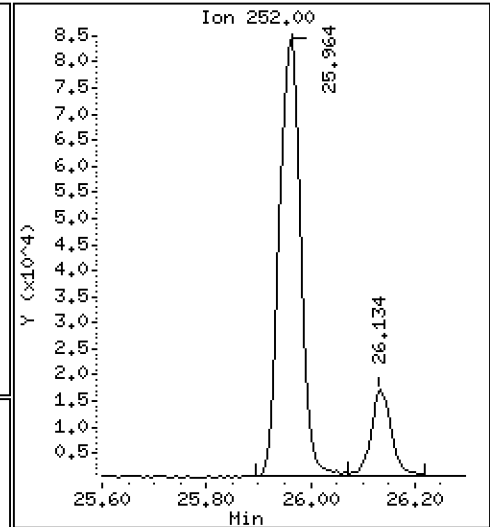
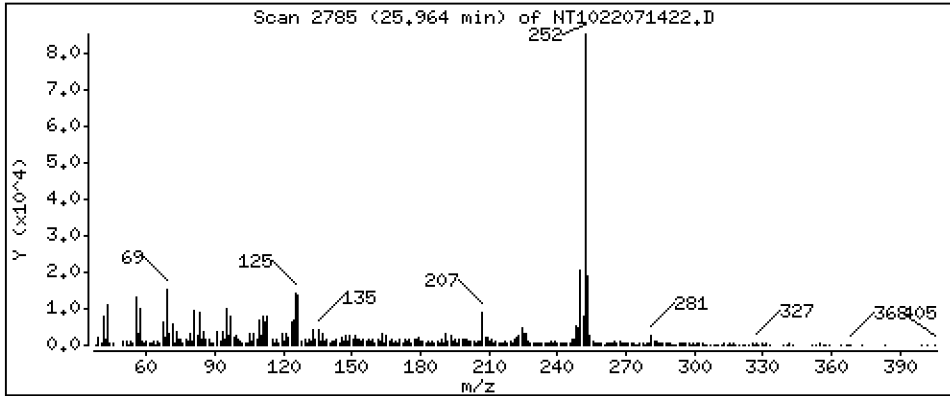
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,949 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

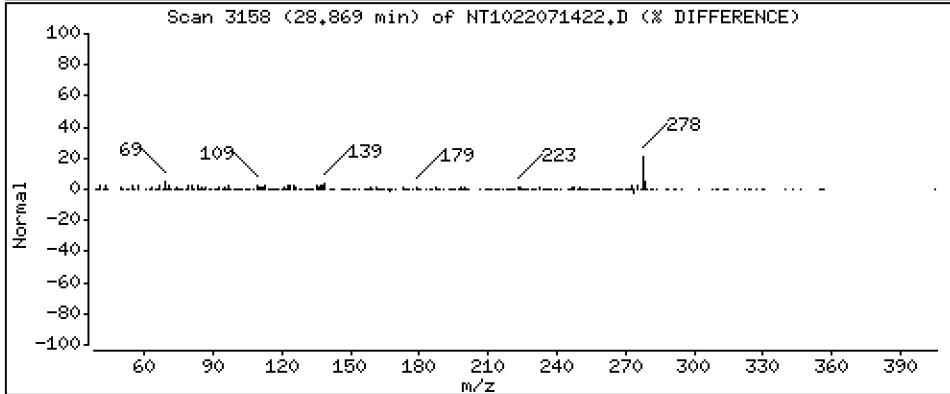
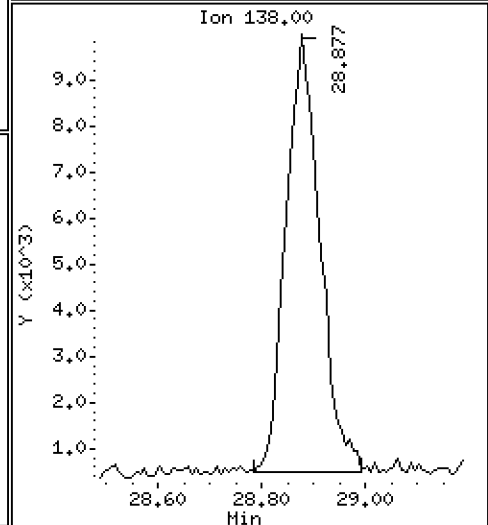
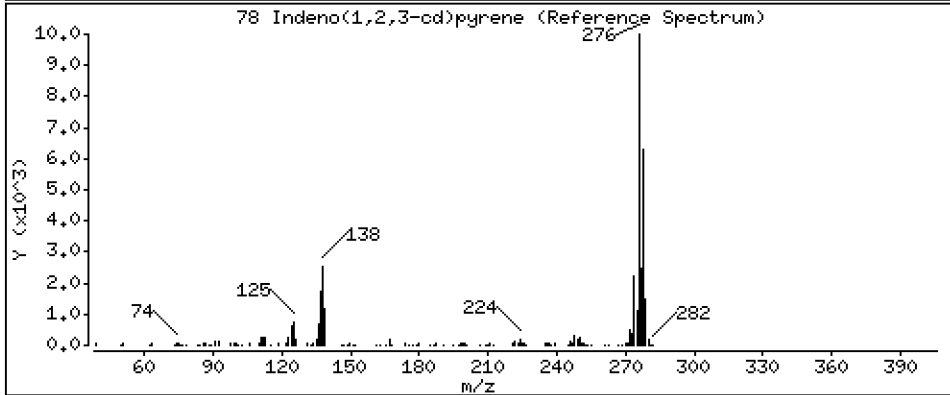
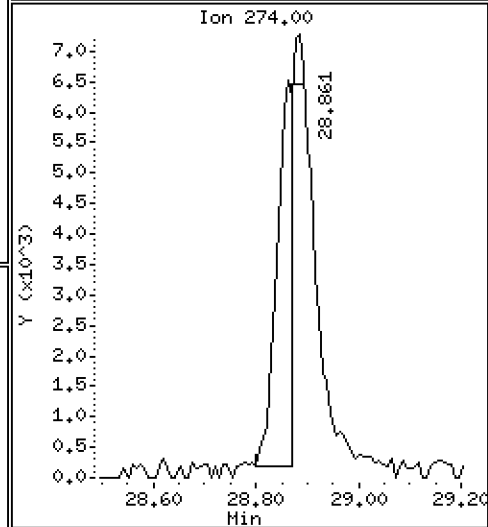
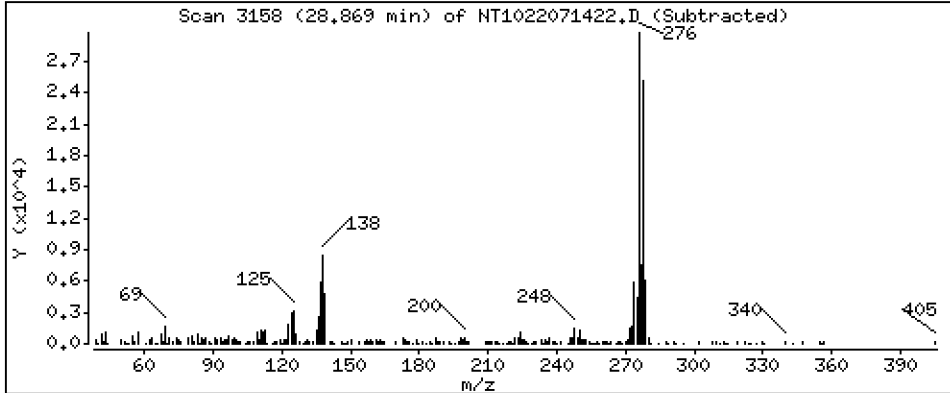
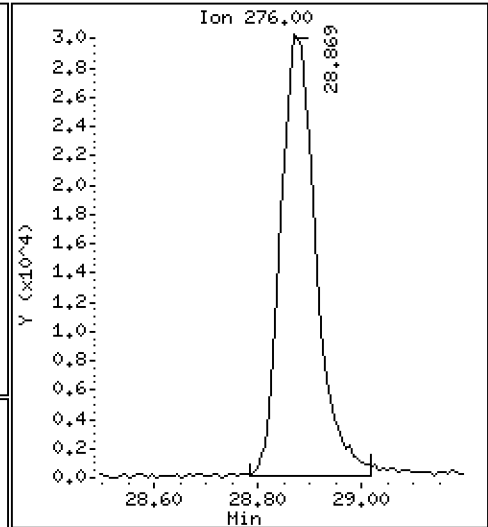
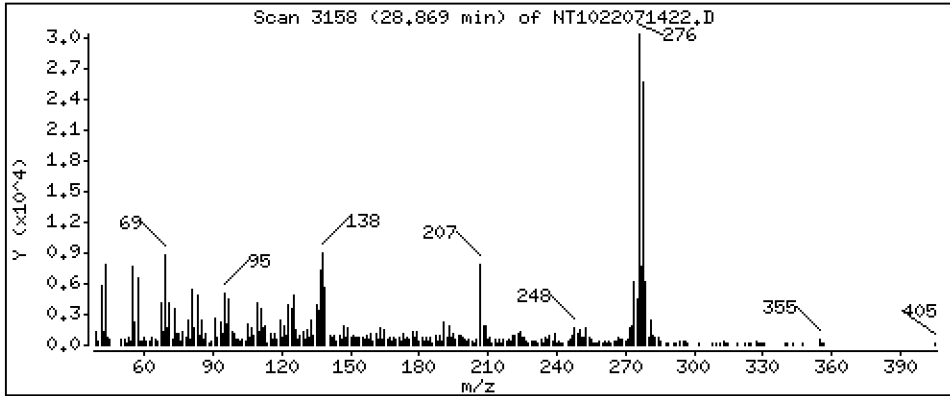
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 2,784 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

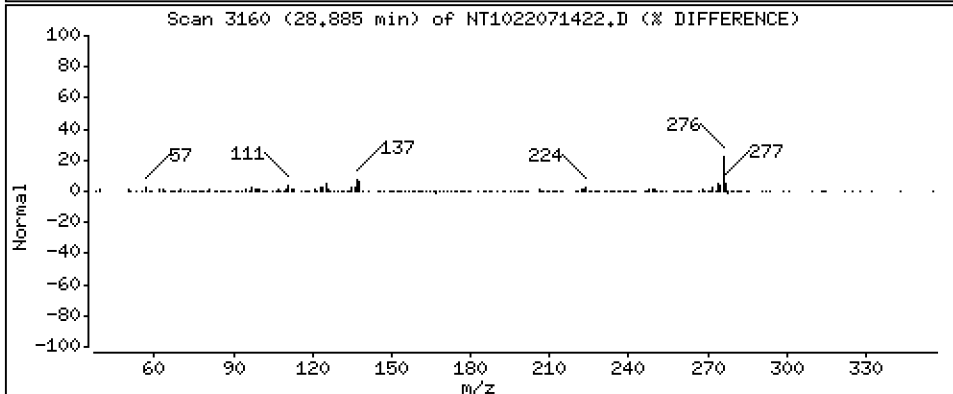
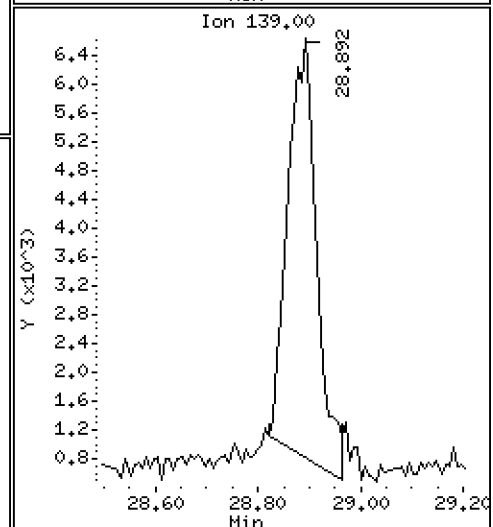
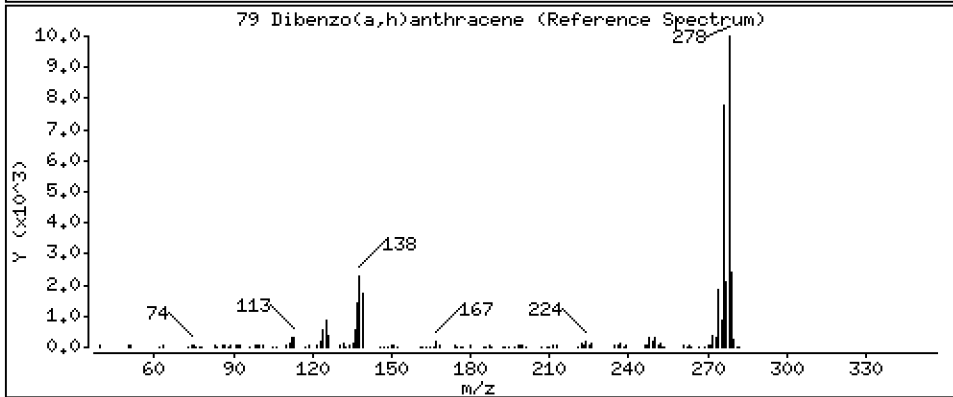
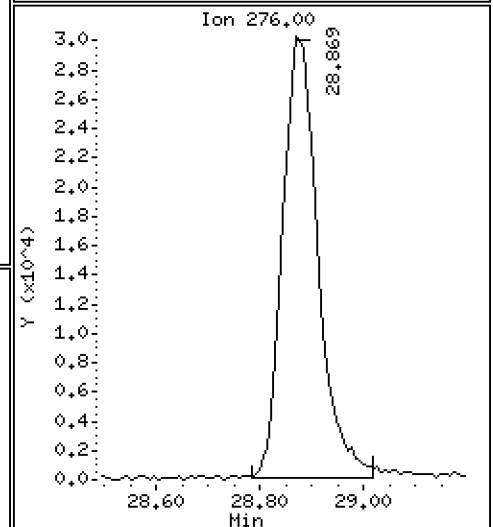
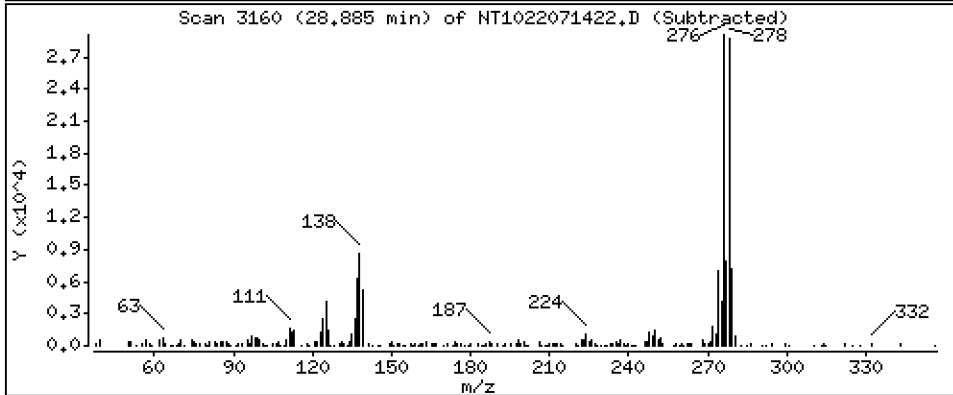
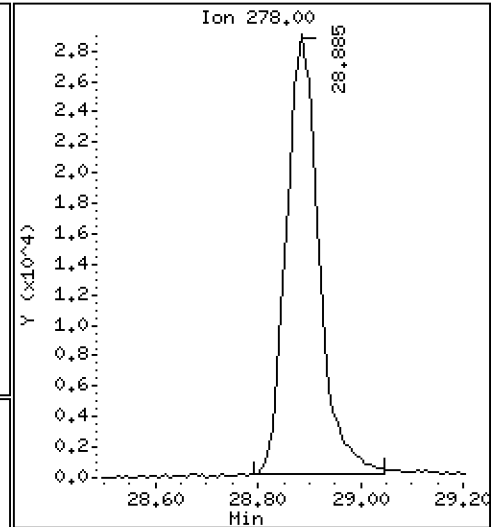
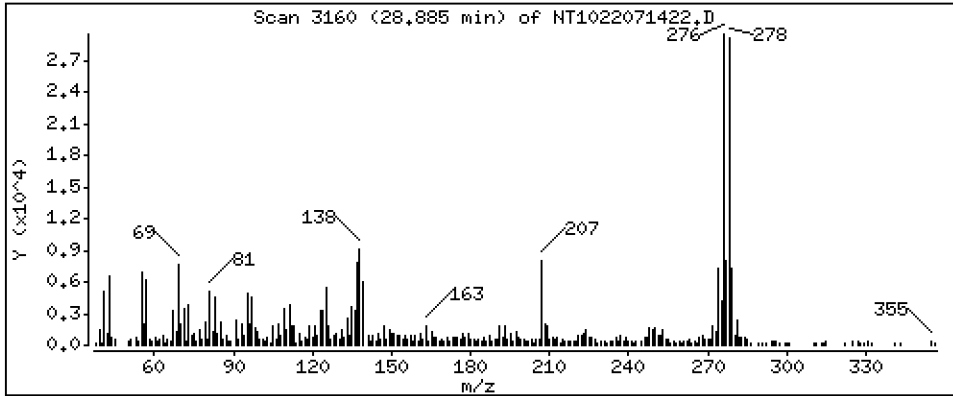
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 3,292 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

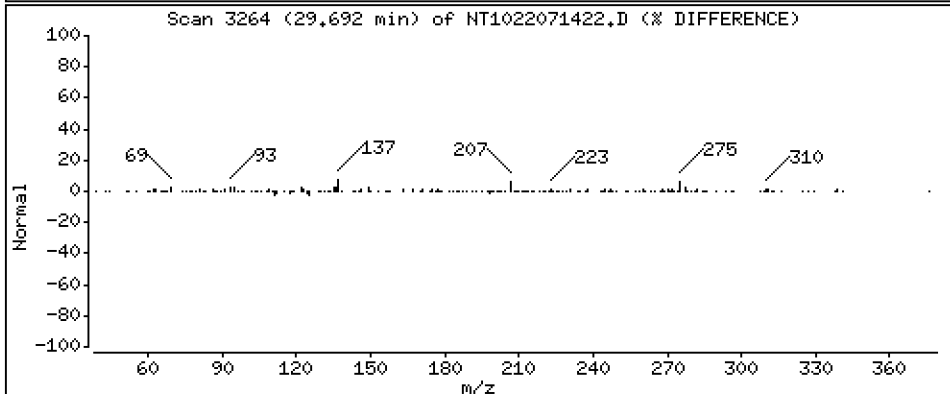
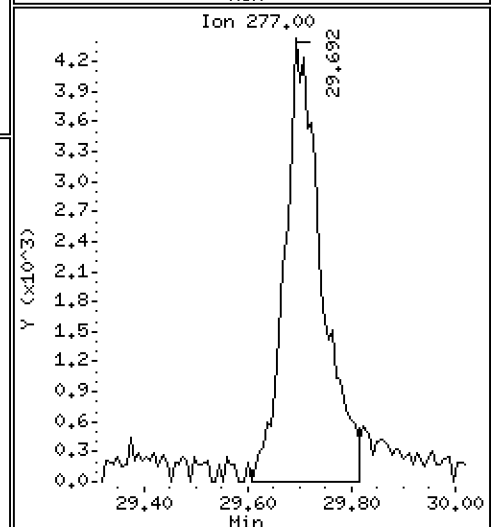
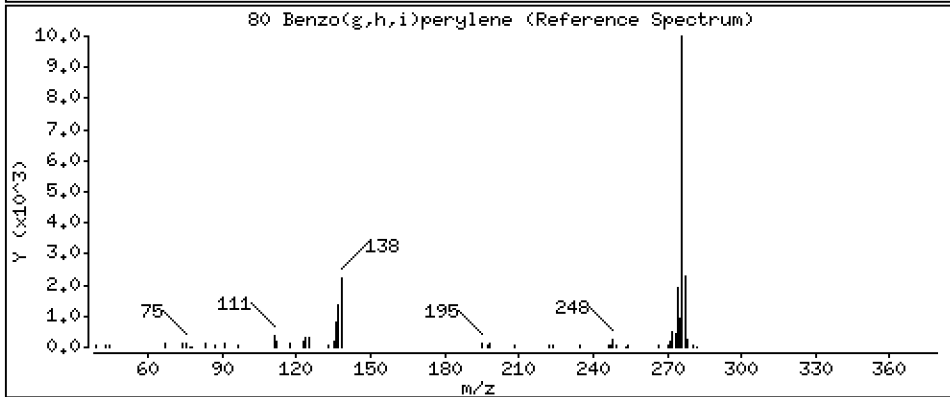
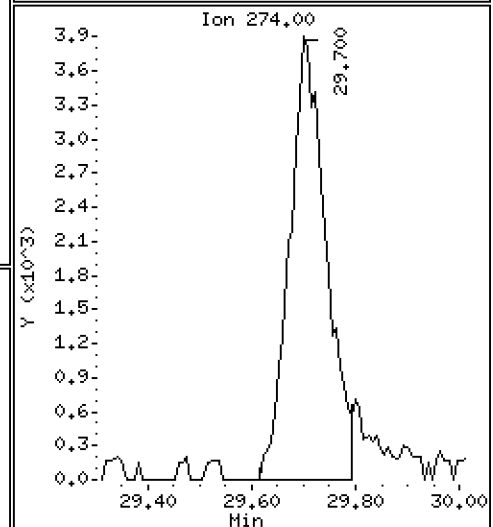
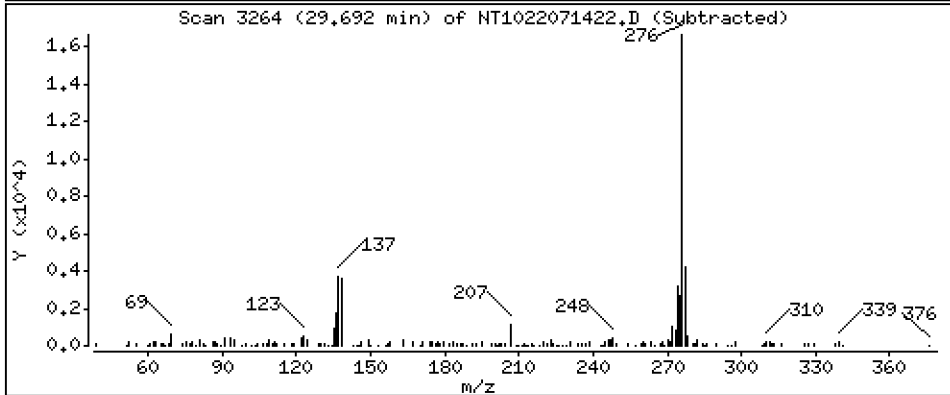
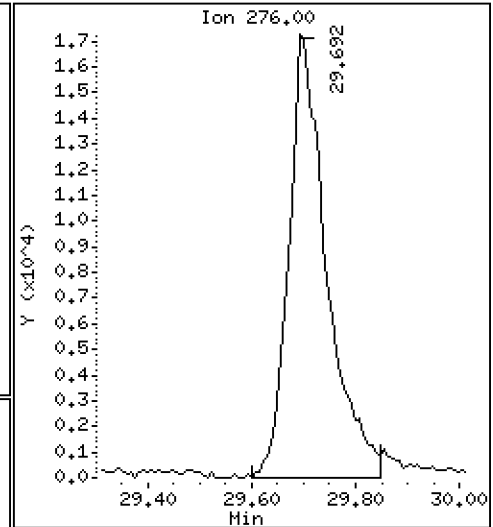
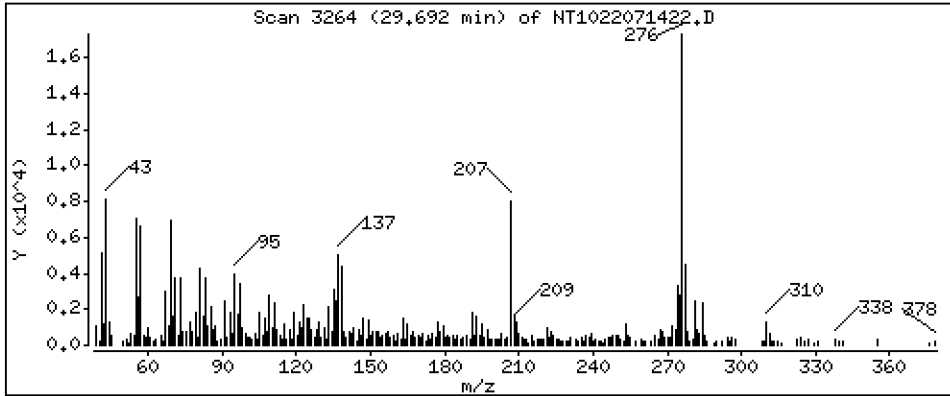
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 2,146 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

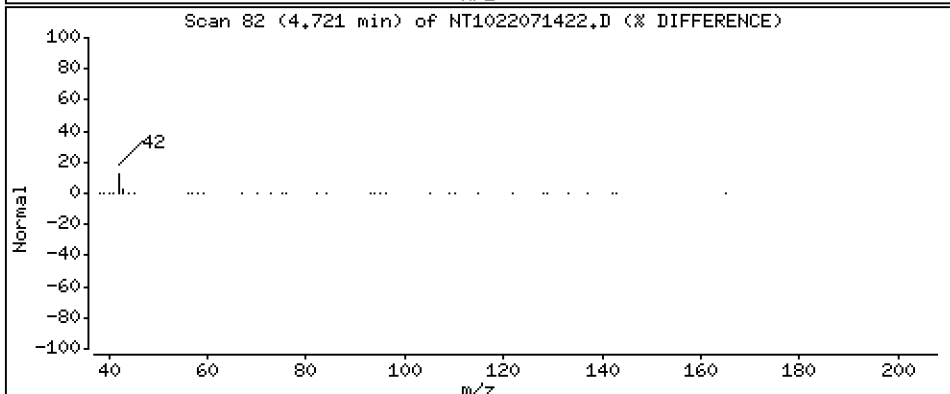
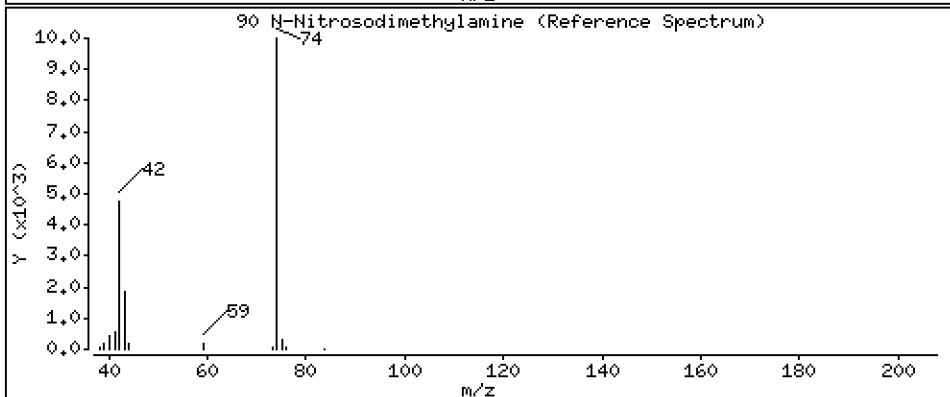
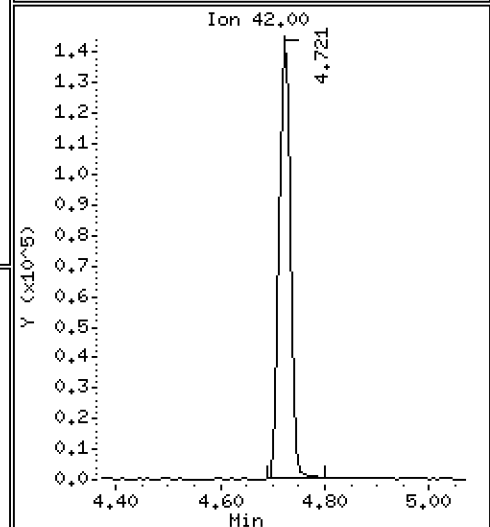
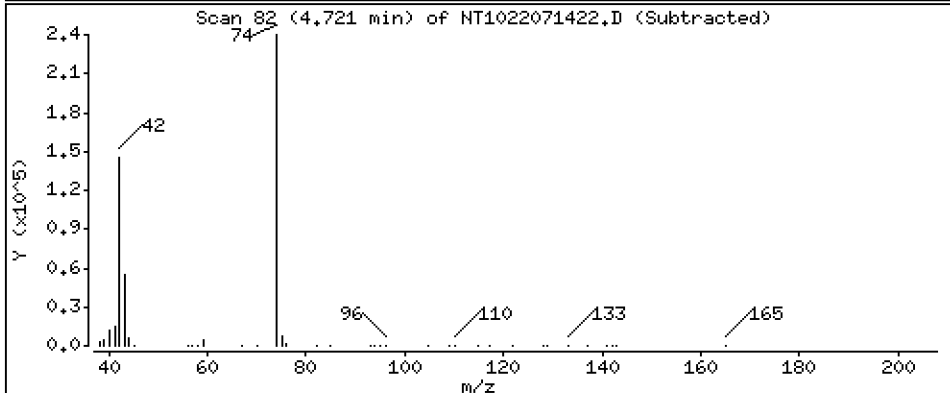
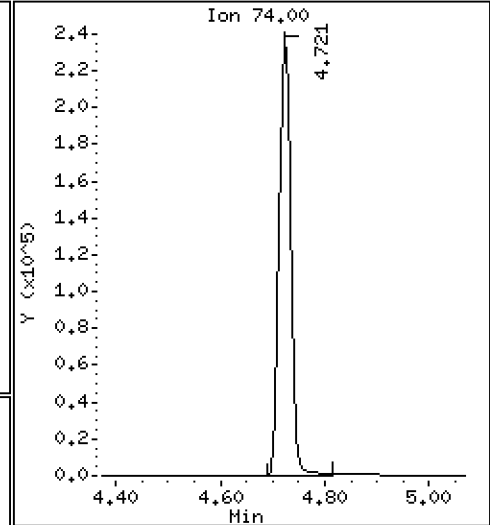
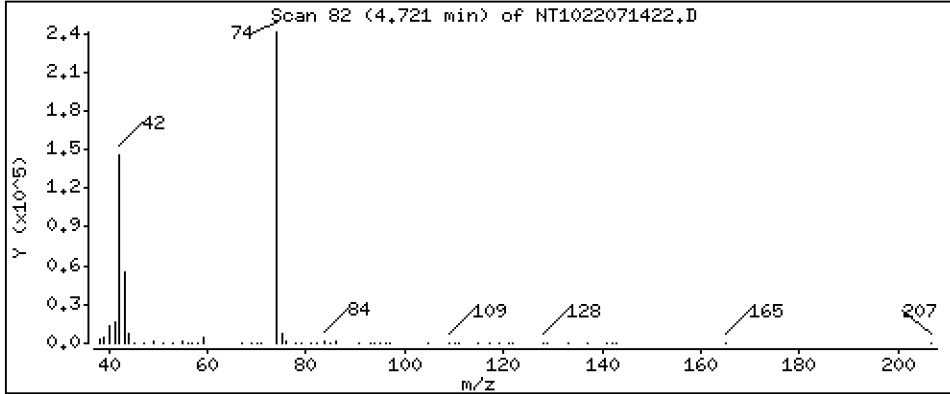
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 8.052 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

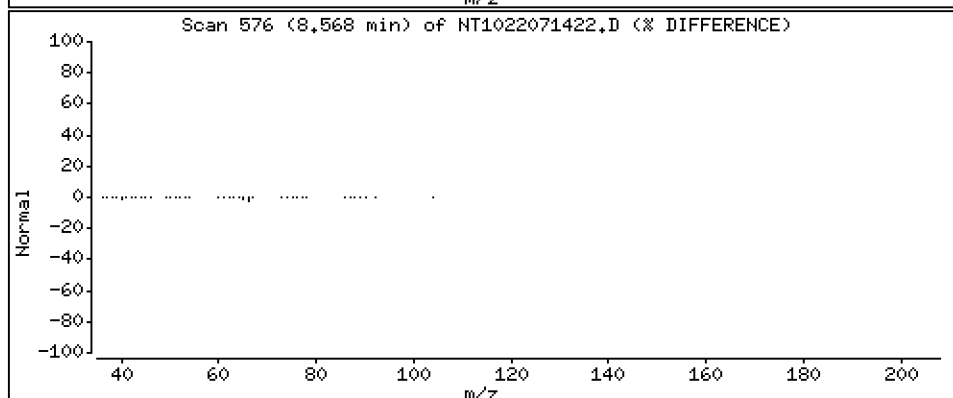
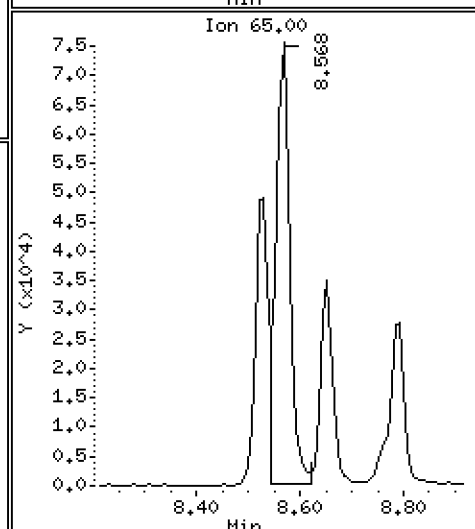
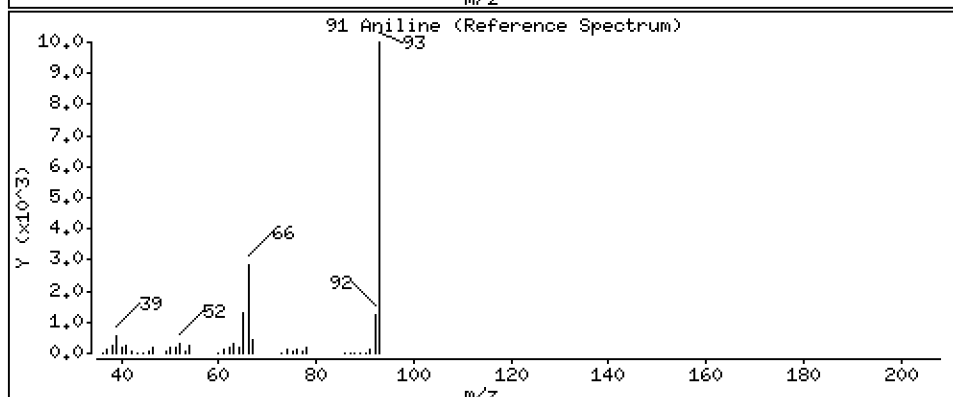
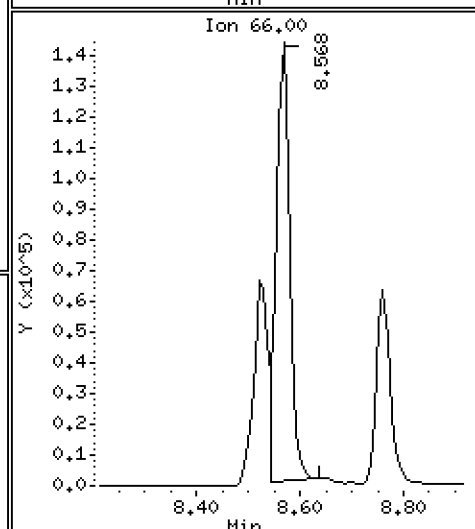
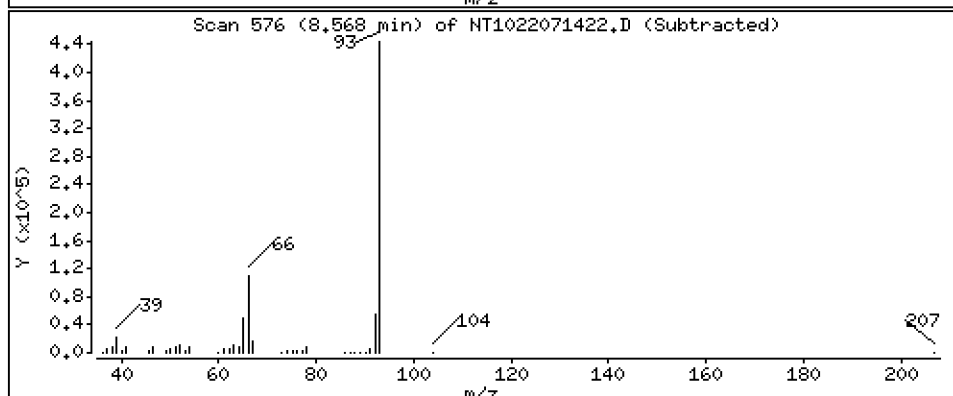
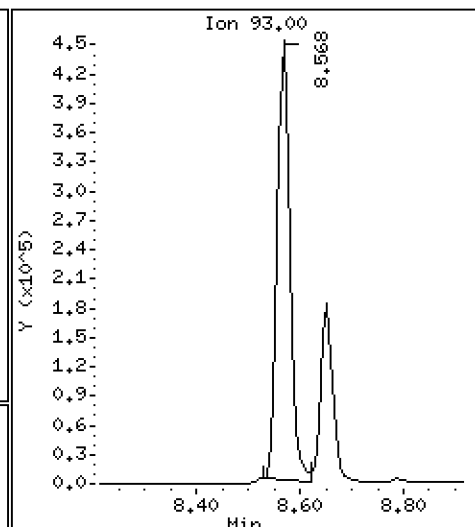
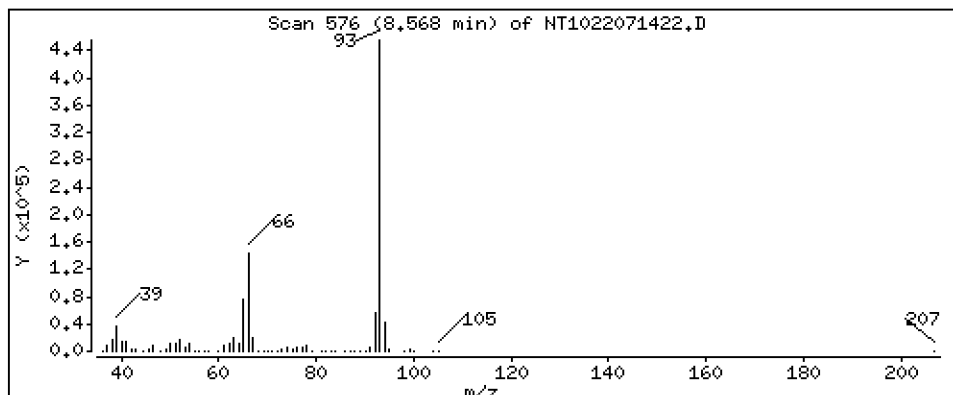
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 8.412 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

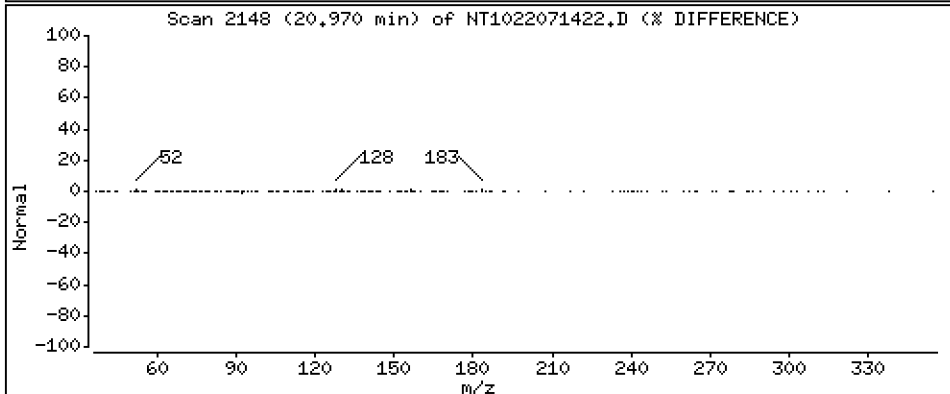
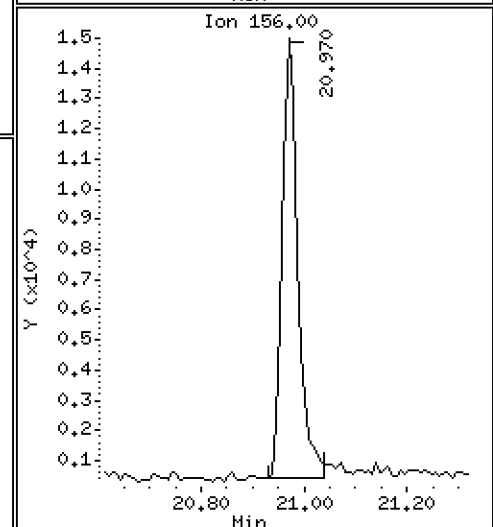
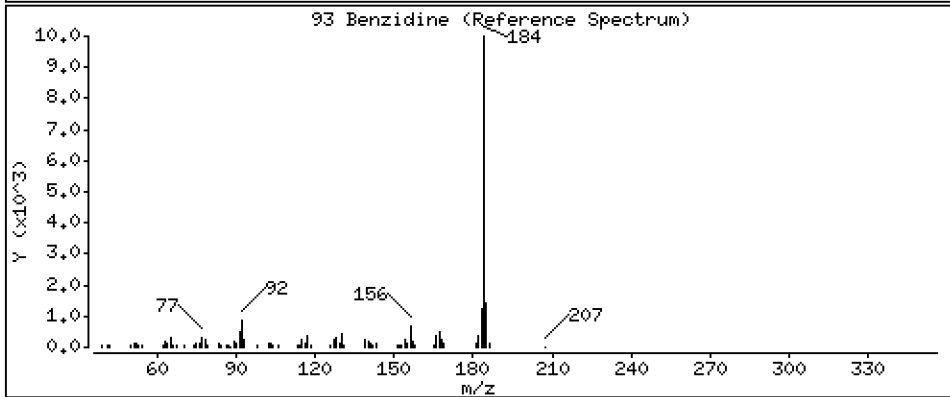
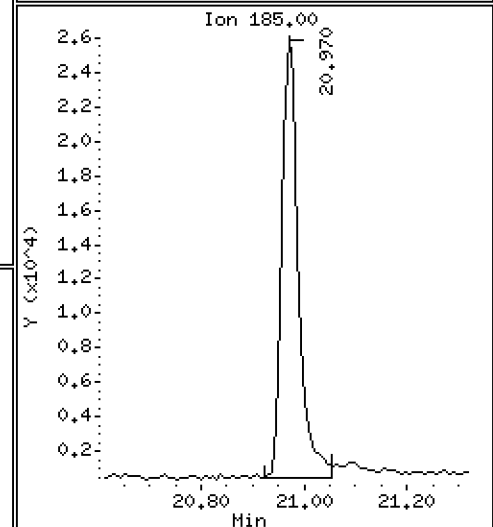
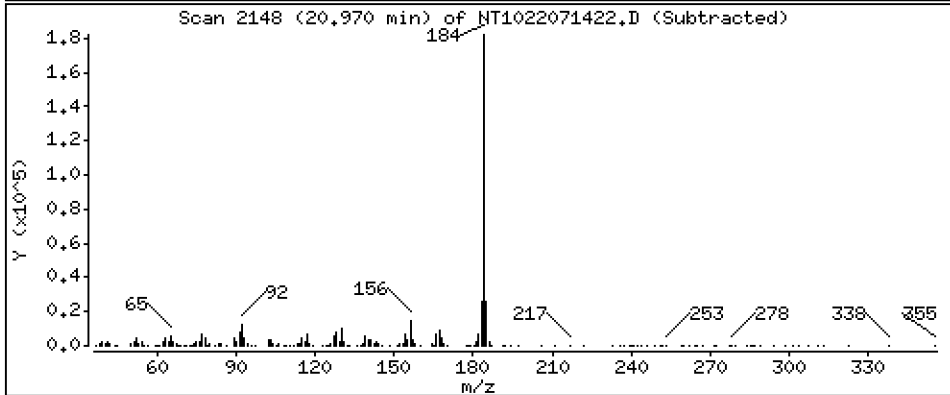
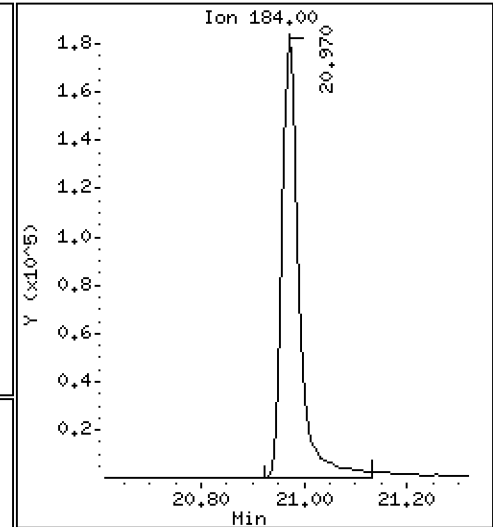
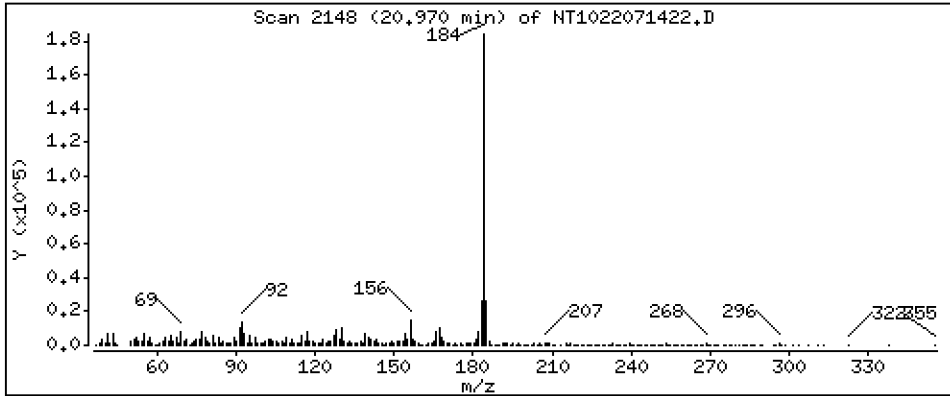
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 15,51 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

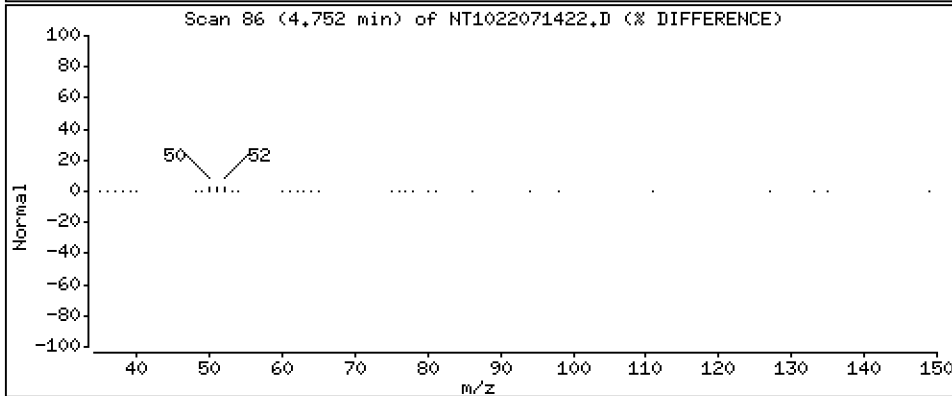
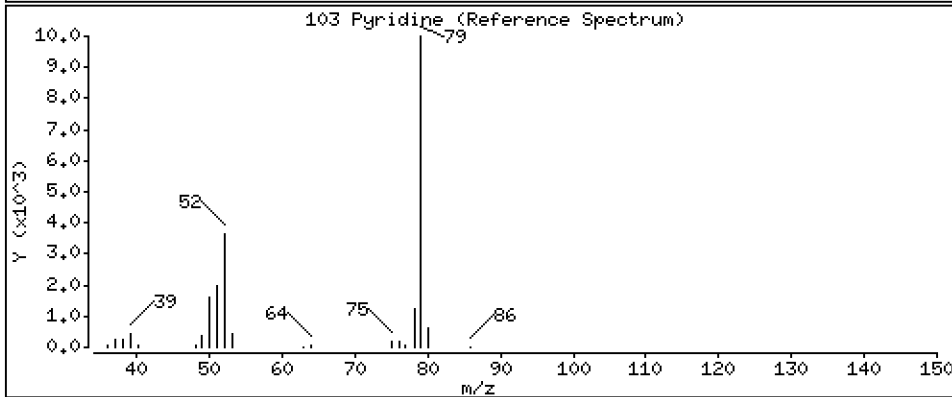
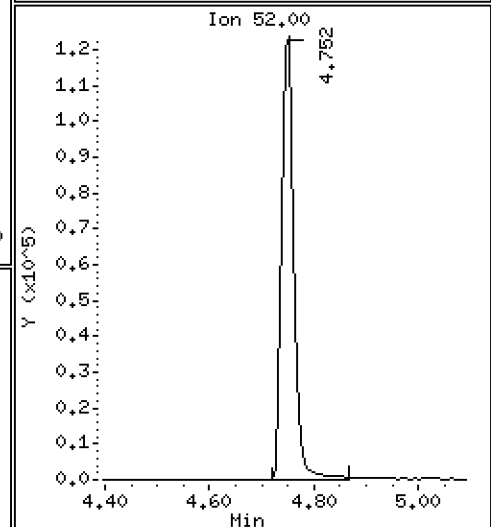
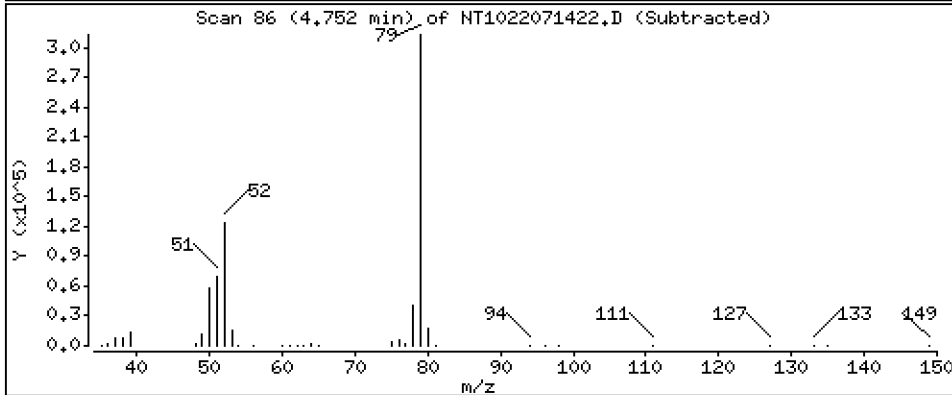
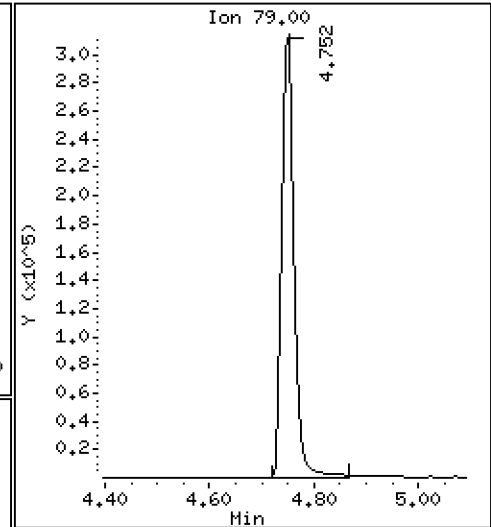
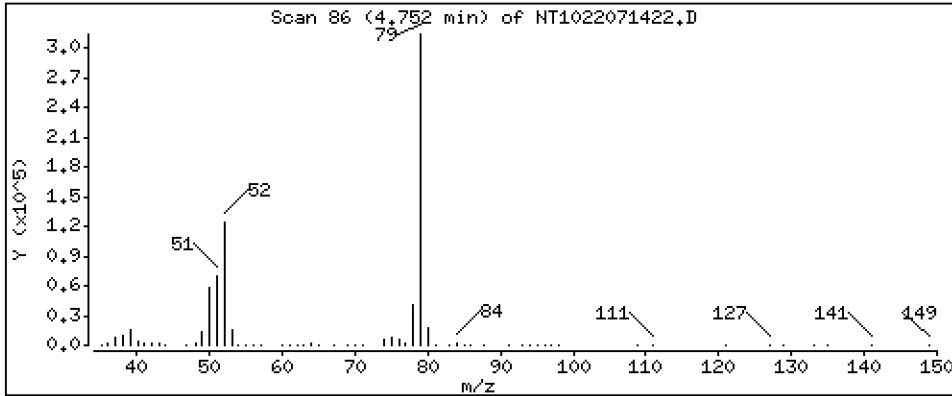
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 4,024 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

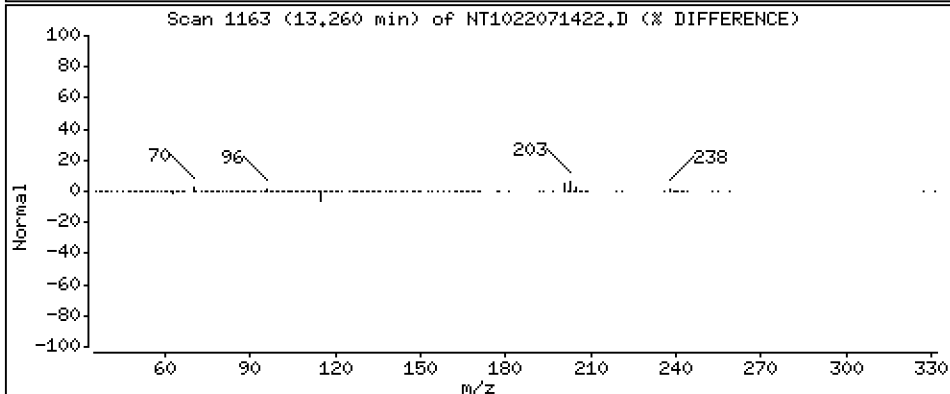
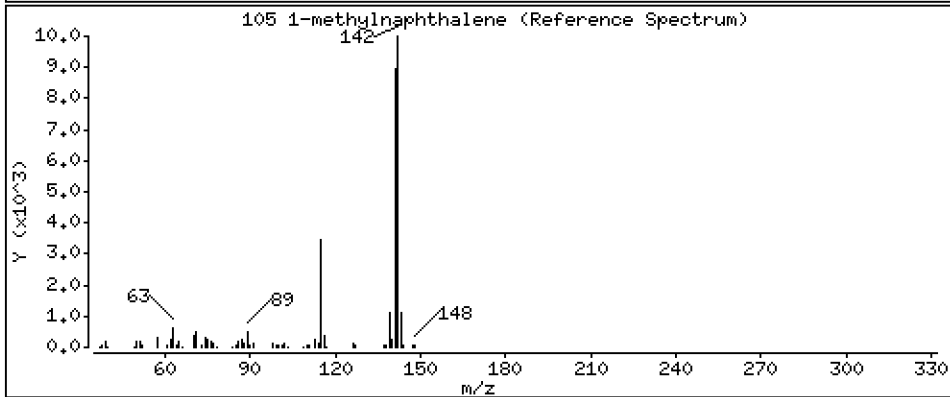
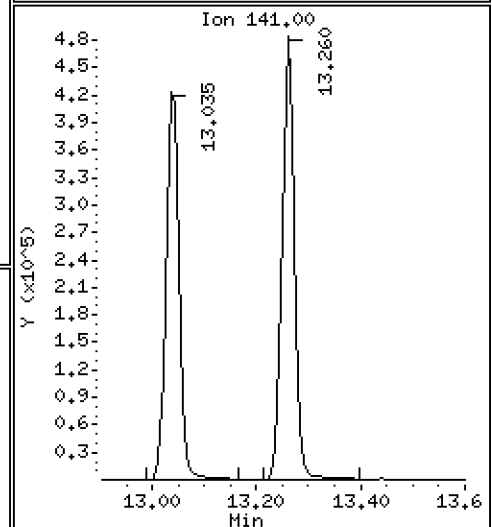
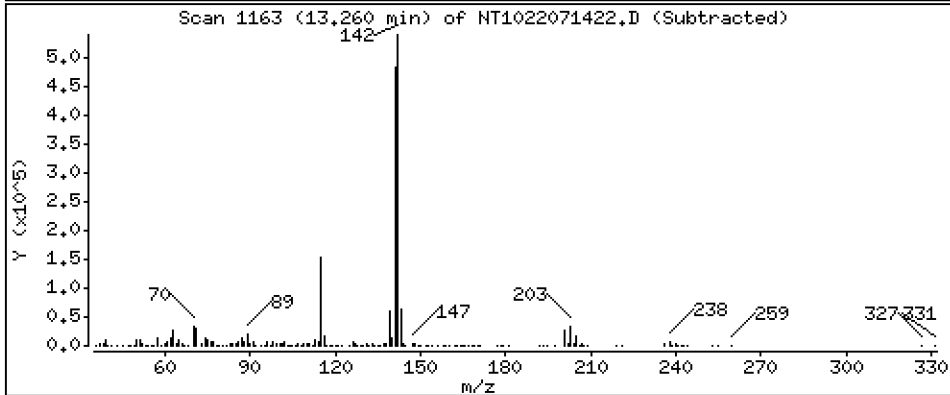
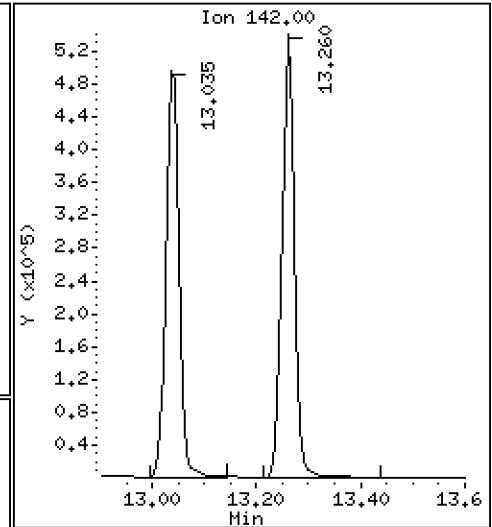
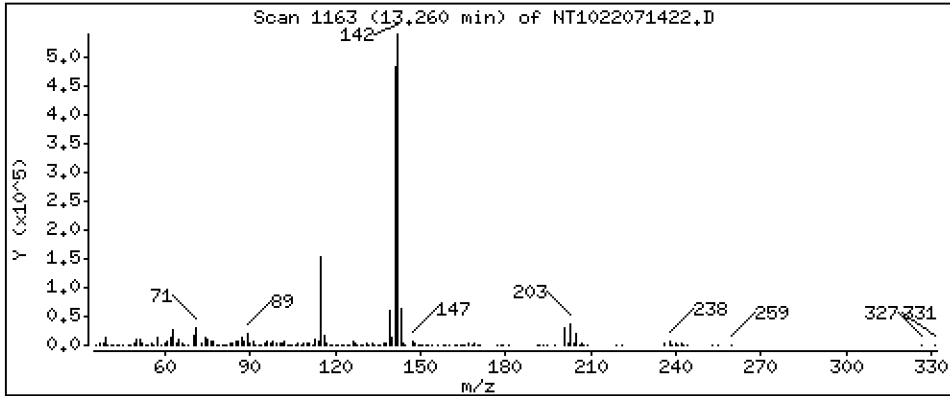
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,798 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

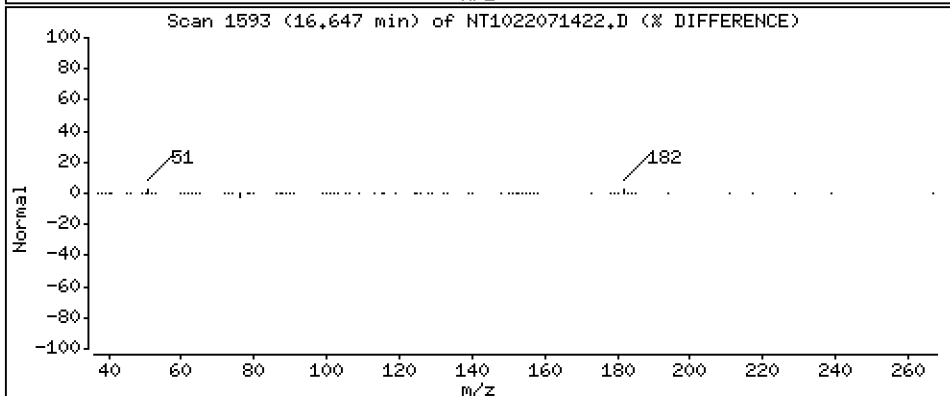
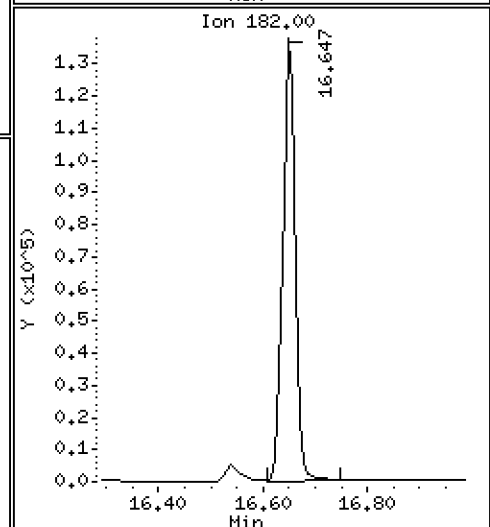
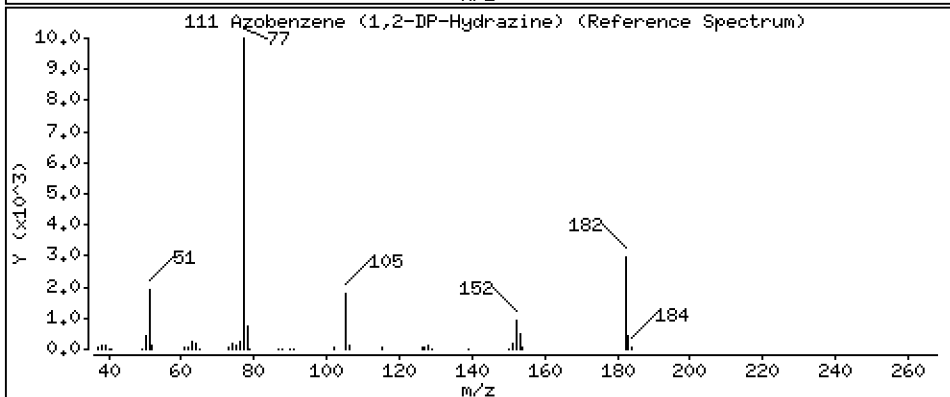
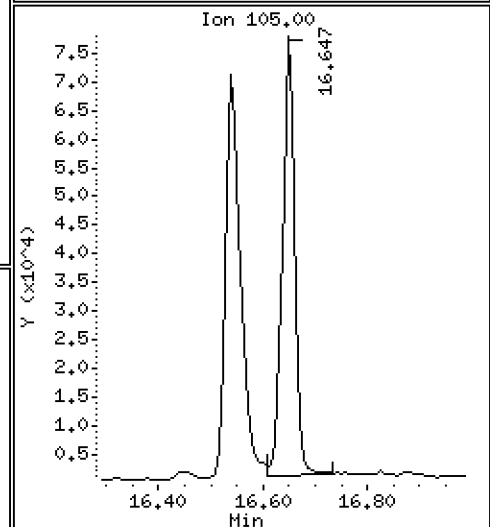
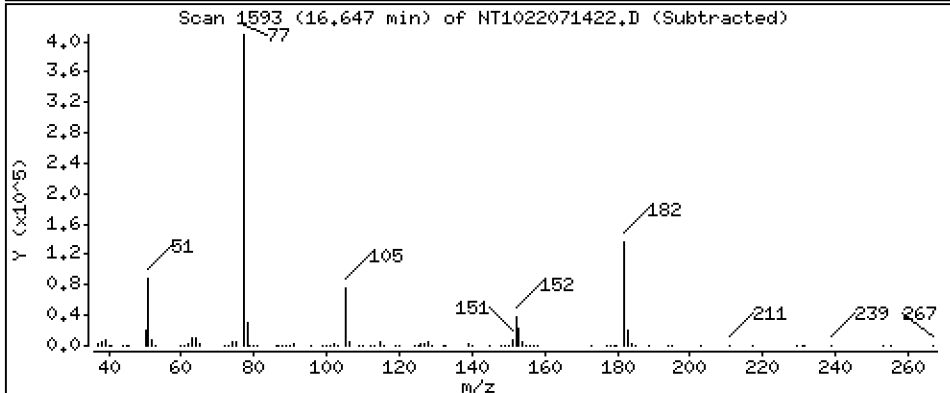
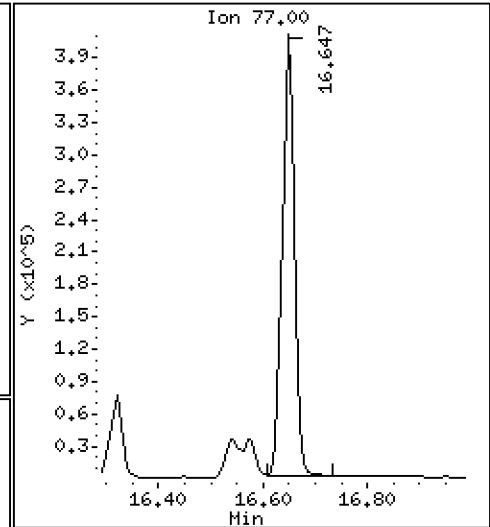
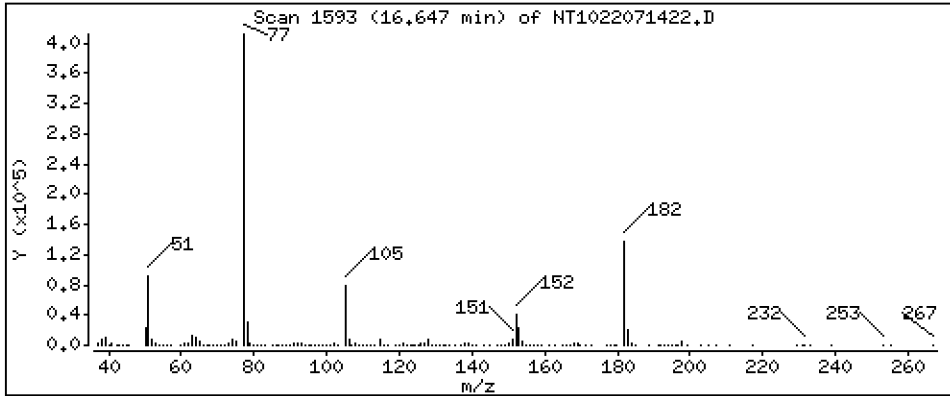
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,494 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

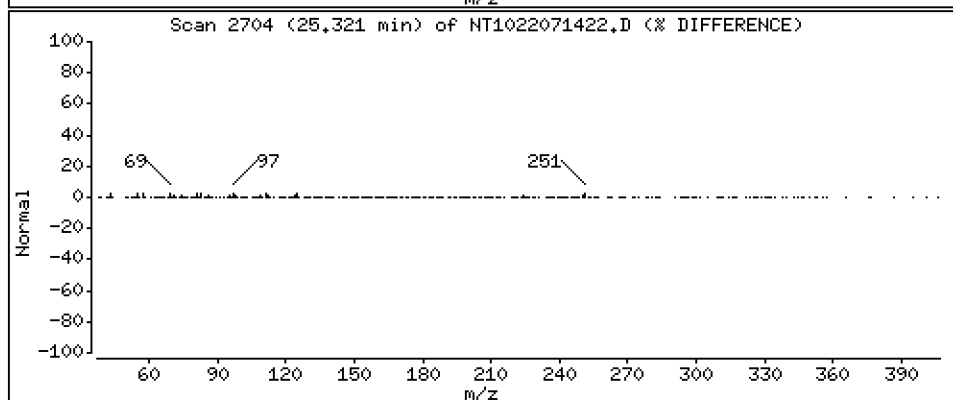
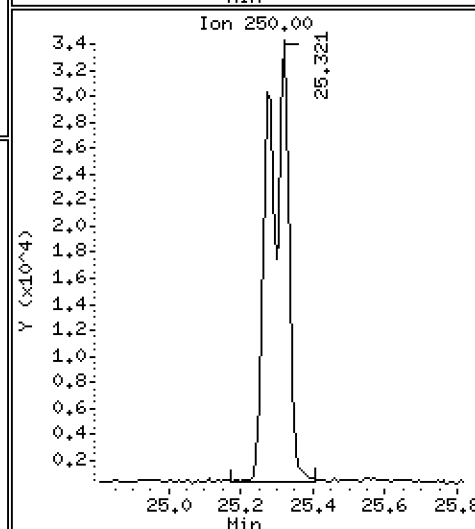
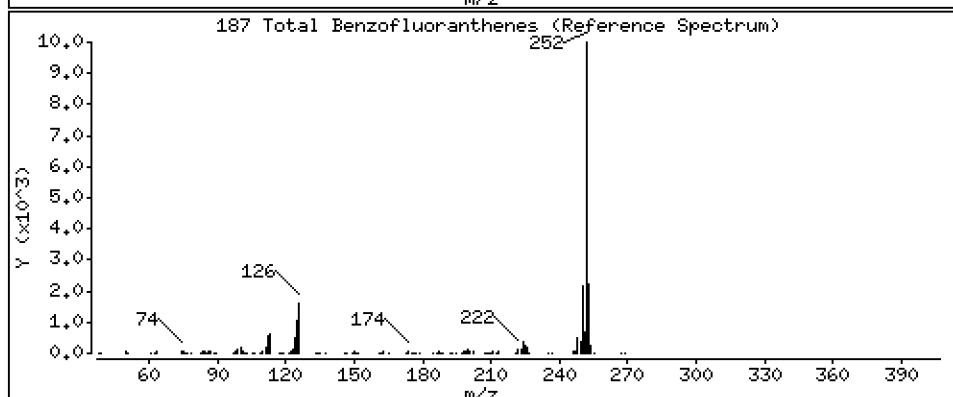
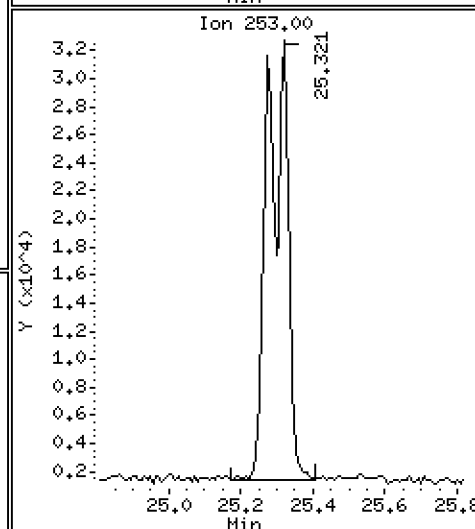
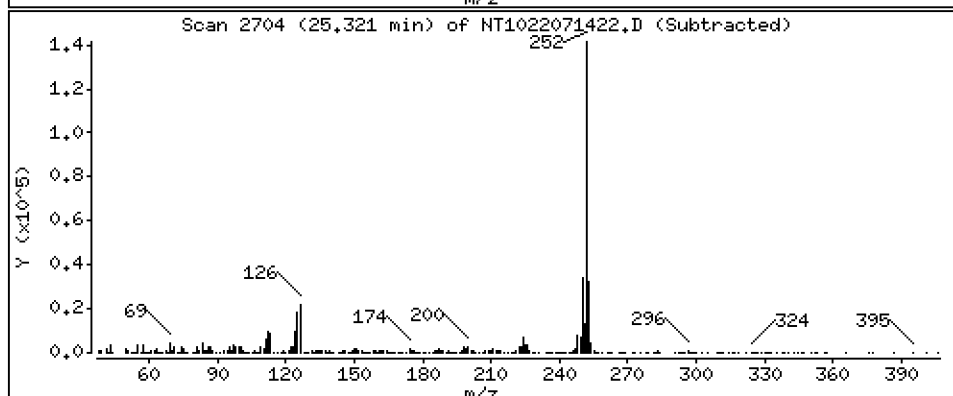
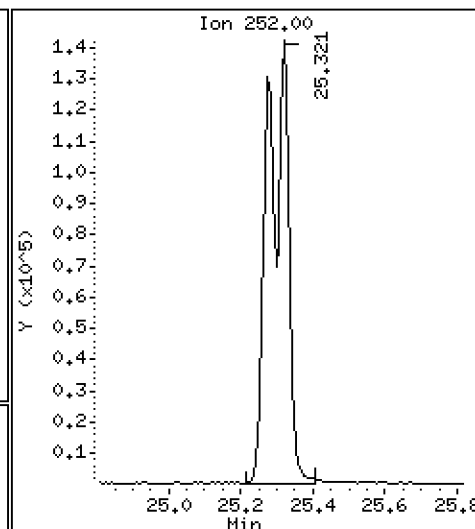
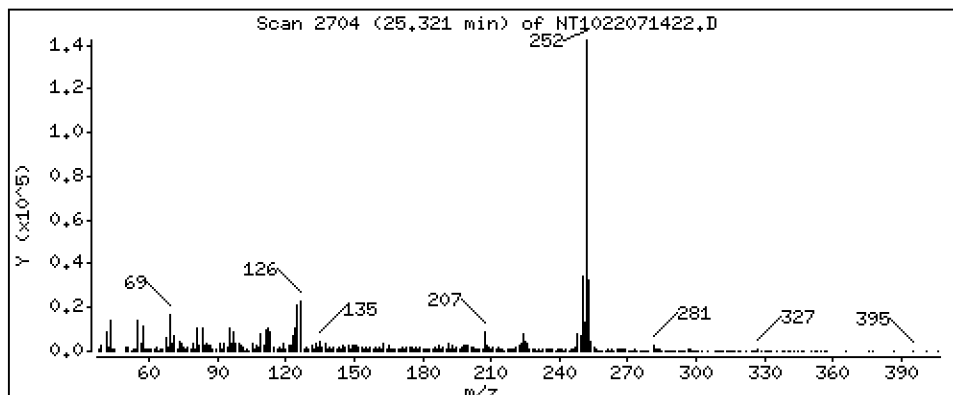
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 10,11 ug/mL



Date : 15-JUL-2022 03:18

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-CCV1

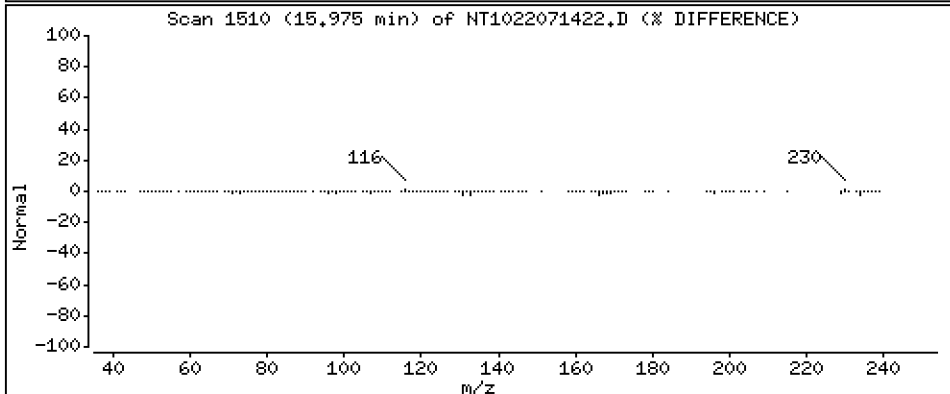
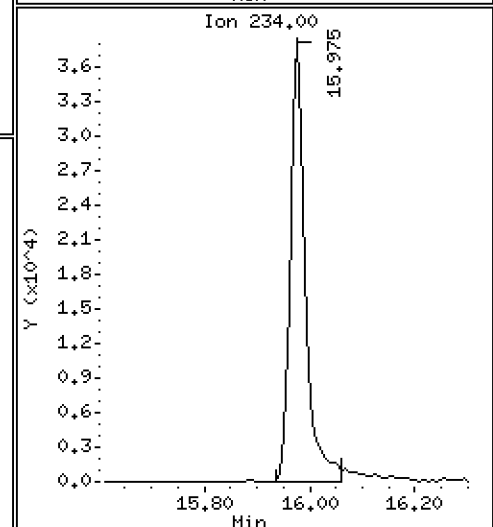
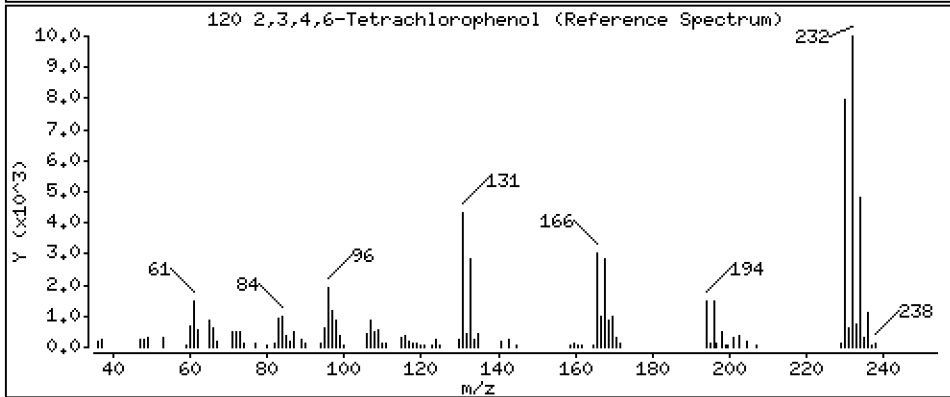
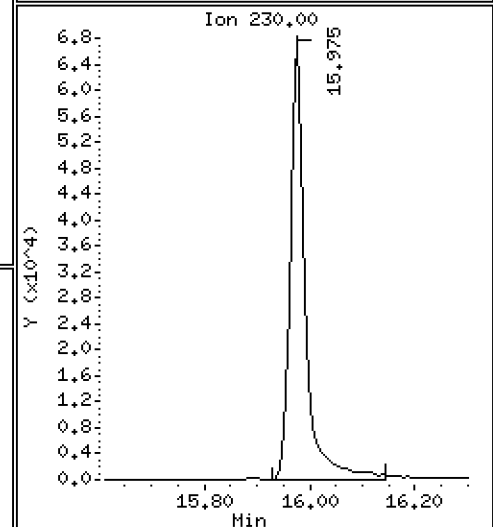
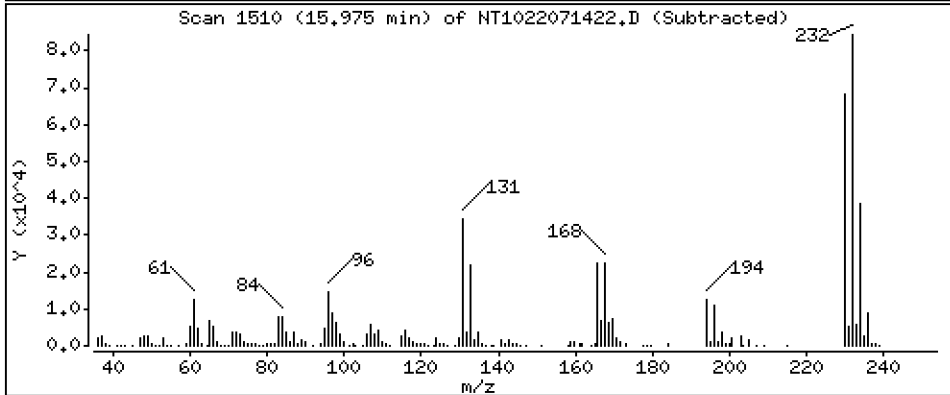
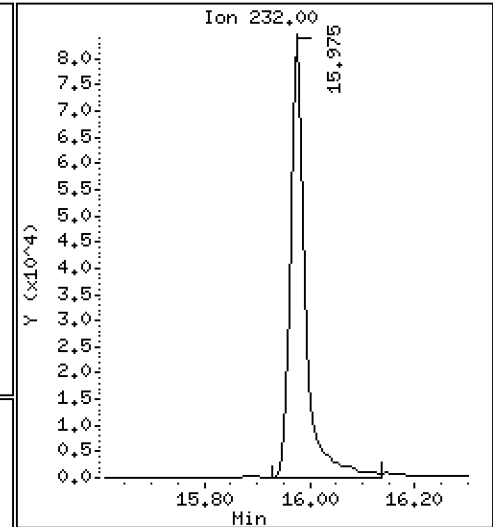
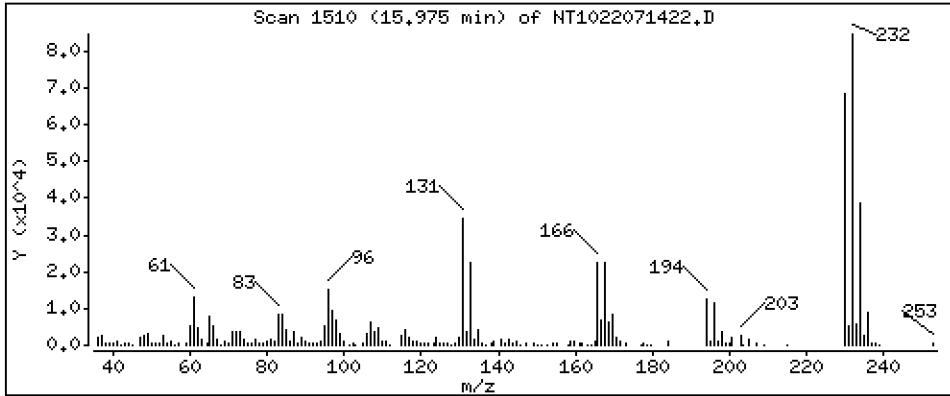
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 5,791 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071422.D
 Lab Smp Id: SKG0139-CCV1
 Inj Date : 15-JUL-2022 03:18
 Operator : VTS
 Smp Info : SKG0139-CCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Meth Date : 14-Jul-2022 14:47 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.914	6.906	(0.759)	495174	7.42507	7.425
\$ 2 Phenol-d5	99		8.506	8.490	(0.934)	714272	7.21832	7.218
3 Phenol	94		8.529	8.513	(0.936)	463086	5.37063	5.371
\$ 5 2-Chlorophenol-d4	132		8.760	8.753	(0.962)	531979	7.82869	7.829
4 Bis(2-Chloroethyl)ether	93		8.652	8.645	(0.950)	289072	4.65828	4.658
6 2-Chlorophenol	128		8.791	8.776	(0.965)	353055	5.13594	5.136
7 1,3-Dichlorobenzene	146		9.047	9.039	(0.993)	382956	5.15066	5.151
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.101	(1.000)	182634	4.00000	
9 1,4-Dichlorobenzene	146		9.140	9.132	(1.003)	309949	5.28855	5.289
\$ 10 1,2-Dichlorobenzene-d4	152		9.466	9.466	(1.039)	224128	5.35264	5.353
12 1,2-Dichlorobenzene	146		9.497	9.489	(1.043)	323033	5.19205	5.192
11 Benzyl alcohol	108		9.396	9.380	(1.032)	197563	5.75168	5.752
14 2,2'-oxybis(1-Chloropropane)	121		9.675	9.668	(1.062)	96592	6.56479	6.565 (M)
13 2-Methylphenol	108		9.629	9.613	(1.057)	276430	5.19963	5.200
17 Hexachloroethane	117		10.079	10.079	(1.107)	121697	4.65816	4.658
16 N-Nitroso-di-n-propylamine	70		9.932	9.924	(1.090)	158355	4.28294	4.283
15 4-Methylphenol	108		9.908	9.885	(1.088)	286472	5.04218	5.042
\$ 18 Nitrobenzene-d5	82		10.203	10.195	(0.880)	309420	4.85842	4.858
19 Nitrobenzene	77		10.234	10.227	(0.883)	305129	4.75349	4.753
20 Isophorone	82		10.684	10.677	(0.921)	529715	5.70452	5.705
21 2-Nitrophenol	139		10.868	10.859	(0.937)	236847	5.84163	5.842
22 2,4-Dimethylphenol	107		10.936	10.927	(0.943)	534096	10.8438	10.84
23 Bis(2-Chloroethoxy)methane	93		11.114	11.106	(0.958)	281873	5.05243	5.052
24 Benzoic acid	105		11.182	11.165	(0.964)	451701	17.2448	17.24
25 2,4-Dichlorophenol	162		11.352	11.335	(0.979)	516520	10.3185	10.32
26 1,2,4-Trichlorobenzene	180		11.511	11.504	(0.993)	276681	5.14937	5.149
* 27 Naphthalene-d8	136		11.596	11.589	(1.000)	598530	4.00000	
28 Naphthalene	128		11.635	11.627	(1.003)	840081	5.48418	5.484
29 4-Chloroaniline	127		11.774	11.766	(1.015)	778526	11.5102	11.51
30 Hexachlorobutadiene	225		11.990	11.990	(1.034)	150645	5.87700	5.877
31 4-Chloro-3-methylphenol	107		12.764	12.749	(1.101)	641458	10.5815	10.58
32 2-Methylnaphthalene	142		13.035	13.027	(1.124)	892123	5.85991	5.860
33 Hexachlorocyclopentadiene	237		13.492	13.492	(0.887)	2157	0.10452	0.1045

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34			196	13.677	13.662	(0.899)	499666	12.1441	12.14
35			196	13.770	13.755	(0.905)	547578	11.1956	11.20
§ 36			172	13.817	13.809	(0.908)	880081	5.37205	5.372
37			162	14.033	14.026	(0.922)	793394	5.49362	5.494
38			65	14.304	14.289	(0.940)	387893	10.0409	10.04
39			163	14.722	14.714	(0.967)	645188	5.08196	5.082
40			152	14.908	14.900	(0.980)	1137293	5.37416	5.374
41			165	14.869	14.862	(0.977)	328410	11.1380	11.14
* 42			164	15.217	15.210	(1.000)	362024	4.00000	
43			138	15.163	15.156	(0.996)	391869	11.2895	11.29
44			153	15.287	15.279	(1.005)	583615	5.54312	5.543
45			184	15.395	15.372	(1.012)	172908	12.8407	12.84
46			168	15.619	15.612	(1.026)	983635	5.87860	5.879
47			109	15.588	15.565	(1.024)	114554	9.89578	9.896 (M)
48			165	15.689	15.681	(1.031)	496461	12.5977	12.60
50			149	16.176	16.176	(1.063)	602806	5.53503	5.535
49			166	16.331	16.323	(1.073)	910624	4.55461	4.555
51			204	16.323	16.323	(1.073)	236902	2.69819	2.698
52			138	16.446	16.439	(1.081)	448794	12.9091	12.91
53			198	16.539	16.531	(0.905)	400831	22.1429	22.14
54			169	16.577	16.570	(0.907)	535829	7.34375	7.344
§ 55			330	16.878	16.870	(1.109)	136397	8.25793	8.258
56			248	17.325	17.318	(0.948)	227569	6.73170	6.732
57			284	17.650	17.642	(0.966)	190969	6.26012	6.260
58			266	18.037	18.022	(0.987)	41617	5.83718	5.837
* 59			188	18.277	18.269	(1.000)	464025	4.00000	
60			178	18.331	18.316	(1.003)	663238	5.44047	5.440
61			178	18.424	18.416	(1.008)	730377	5.62206	5.622
62			167	18.764	18.757	(1.027)	666598	5.56187	5.562
63			149	19.546	19.546	(1.069)	790686	4.27316	4.273
64			202	20.730	20.722	(0.887)	454336	3.59063	3.591
65			202	21.155	21.147	(0.906)	514959	4.59646	4.596
§ 66			244	21.441	21.434	(0.918)	300594	4.91876	4.919
67			149	22.371	22.363	(0.958)	204683	5.78572	5.786
68			228	23.338	23.331	(0.999)	357678	4.82006	4.820
* 69			240	23.362	23.362	(1.000)	175120	4.00000	
70			252	23.292	23.292	(0.997)	383705	15.8682	15.87
71			228	23.416	23.408	(1.002)	321766	6.12244	6.122
72			149	23.400	23.400	(0.959)	259790	6.38608	6.386
* 134			153	24.407	24.407	(1.000)	368046	4.00000	
73			149	24.415	24.422	(1.000)	475550	5.68478	5.685
74			252	25.274	25.266	(0.969)	280152	4.75149	4.751
75			252	25.320	25.313	(0.971)	303414	5.35161	5.352
76			252	25.963	25.948	(0.996)	238821	4.94901	4.949
* 77			264	26.079	26.064	(1.000)	130190	4.00000	
78			276	28.869	28.845	(1.107)	143439	2.78393	2.784
79			278	28.884	28.853	(1.108)	129832	3.29161	3.292
80			276	29.692	29.661	(1.139)	88399	2.14631	2.146
90			74	4.720	4.720	(0.518)	351339	8.05200	8.052
91			93	8.567	8.560	(0.941)	725397	8.41153	8.412
93			184	20.969	20.962	(0.898)	400665	15.5086	15.51
103			79	4.751	4.743	(0.522)	497686	4.02365	4.024
105			142	13.259	13.252	(1.143)	867255	5.79829	5.798
111			77	16.647	16.639	(1.094)	649758	4.49390	4.494

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.320	25.313	(0.971)	555827	10.1106	10.11
120 2,3,4,6-Tetrachlorophenol	232	15.975	15.959	(1.050)	182377	5.79113	5.791

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071422.D Calibration Time: 14:12
 Lab Smp Id: SKG0139-CCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	182634	-6.74
27 Naphthalene-d8	626038	313019	1252076	598530	-4.39
42 Acenaphthene-d10	366612	183306	733224	362024	-1.25
59 Phenanthrene-d10	635137	317569	1270274	464025	-26.94
69 Chrysene-d12	270778	135389	541556	175120	-35.33
134 Di-n-octylphthala	507031	253516	1014062	368046	-27.41
77 Perylene-d12	170107	85054	340214	130190	-23.47

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.11	0.09
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.07
42 Acenaphthene-d10	15.21	14.71	15.71	15.22	0.05
59 Phenanthrene-d10	18.27	17.77	18.77	18.28	0.04
69 Chrysene-d12	23.36	22.86	23.86	23.36	0.00
134 Di-n-octylphthala	24.41	23.91	24.91	24.41	0.00
77 Perylene-d12	26.06	25.56	26.56	26.08	0.06

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

REVIEW SUMMARY FOR FILE - NT1022071422.D

Lab ID: SKG0139-CCV1
nt10.i, ABN.m, 15-JUL-2022 03:18

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

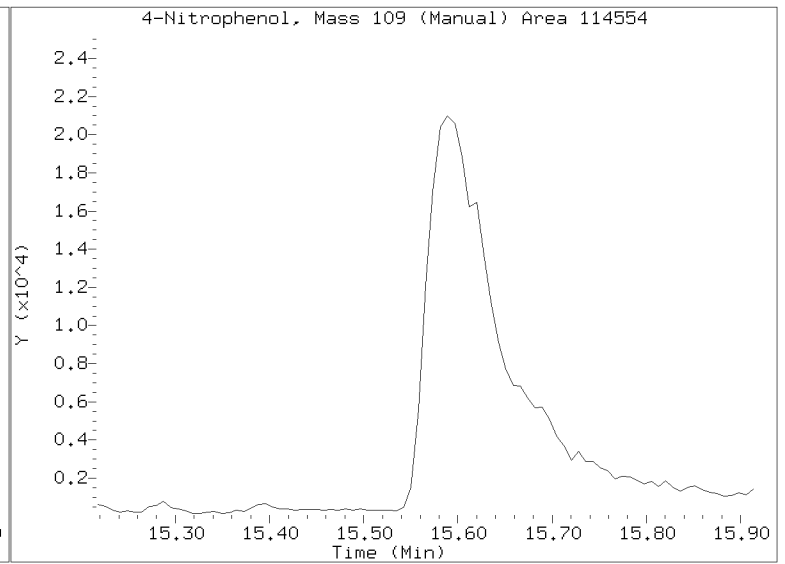
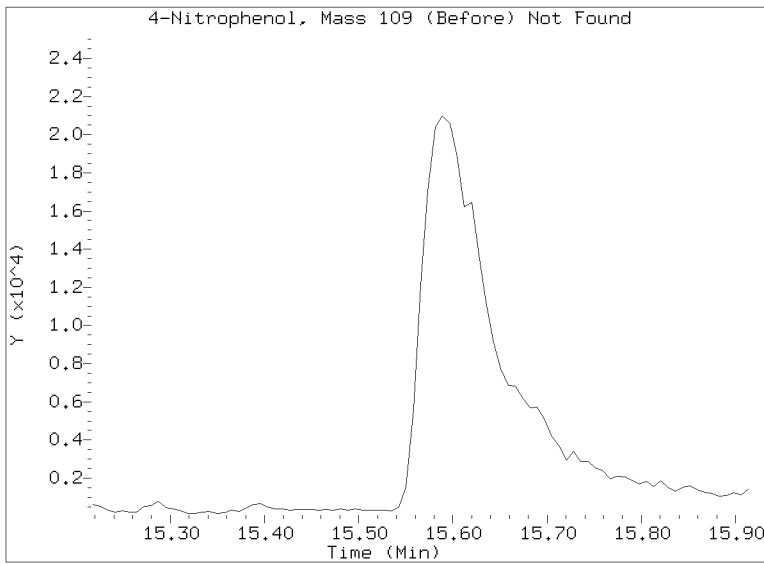
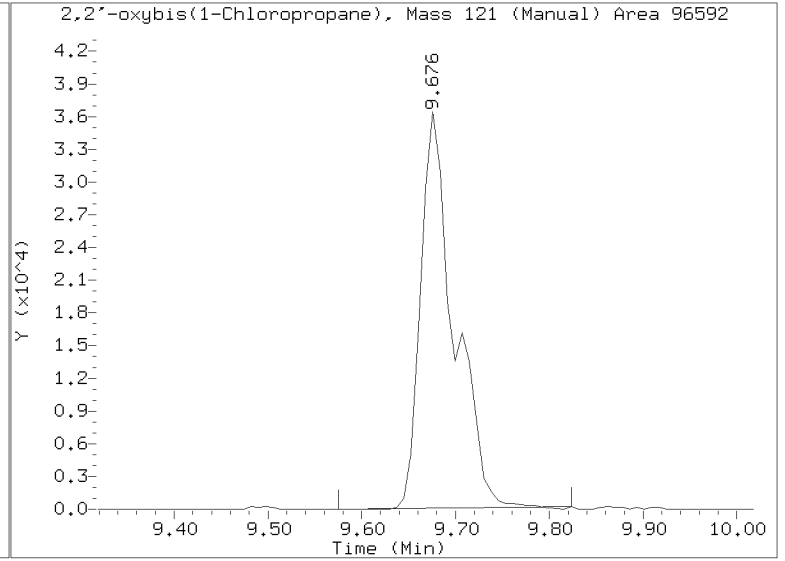
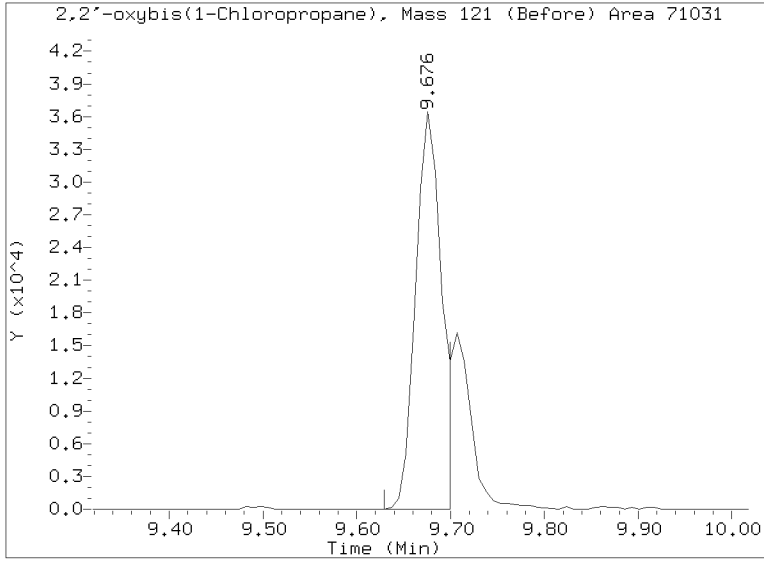
RRT check based on Ccal File: NT1022071402.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071422.D
Injection Date: 15-JUL-2022 03:18
Lab ID:SKG0139-CCV1 Client ID:
Report Date: 07/19/2022 12:56





**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071403.D

Calibration Date: 06/23/2022

Sequence: SKG0139

Injection Date: 07/14/22

Lab Sample ID: SKG0139-LCV1

Injection Time: 15:00

Sequence Name: ABN 0.5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Naphthalene	A	0.50000	0.5	1.0237250	1.0870850		6.2	+/-50
2-Methylnaphthalene	A	0.50000	0.4	1.0174370	0.8788863		-13.6	+/-50
Acenaphthene	A	0.50000	0.5	1.1633080	1.2090000		3.9	+/-50
Pentachlorophenol	A	1.0000	0.07	0.0462824	0.0040591		-93.2	+/-50
Phenanthrene	A	0.50000	0.5	1.0508770	1.1535490		9.8	+/-50
Fluoranthene	A	0.50000	0.8	2.5859780	4.6654620		64.9	+/-50
Benzo(a)anthracene	A	0.50000	0.7	1.6949770	2.3257180		37.2	+/-50
Chrysene	A	0.50000	0.7	1.1695310	1.5029860		33.3	+/-50
Benzo(b)fluoranthene	A	0.50000	0.5	1.8115340	1.7421590		-3.8	+/-50
Benzo(k)fluoranthene	A	0.50000	0.6	1.7419410	2.0378530		17.0	+/-50
Benzo(a)pyrene	A	0.50000	0.5	1.4826420	1.4875880		0.3	+/-50
Indeno(1,2,3-cd)pyrene	A	0.50000	0.6	1.5830350	1.7584580		11.1	+/-50
Dibenzo(a,h)anthracene	A	0.50000	0.6	1.2118700	1.4984720		23.7	+/-50
1-Methylnaphthalene	A	0.50000	0.4	0.9995882	0.7800066		-22.0	+/-50
2-Fluorophenol	A	0.75000	0.811	1.4606150	1.5801100		8.2	+/-50
Phenol-d5	A	0.75000	0.550	2.1672350	1.5893620		-26.7	+/-50
2-Chlorophenol-d4	A	0.75000	0.747	1.4882780	1.4822230		-0.4	+/-50
1,2-Dichlorobenzene-d4	A	0.50000	0.576	0.9170783	1.0562570		15.2	+/-50
Nitrobenzene-d5	A	0.50000	0.481	0.4256249	0.4093045		-3.8	+/-50
2-Fluorobiphenyl	A	0.50000	0.540	1.8101110	1.9544040		8.0	+/-50
2,4,6-Tribromophenol	A	0.75000	0.352	0.1582114	0.0846425		-53.1	+/-50
p-Terphenyl-d14	A	0.50000	1.03	1.3958840	2.8821120		106	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220714.6\NT1022071403.D

Date: 14-JUL-2022 15:00

Client ID:

Sample Info: SKC0139-LCW1

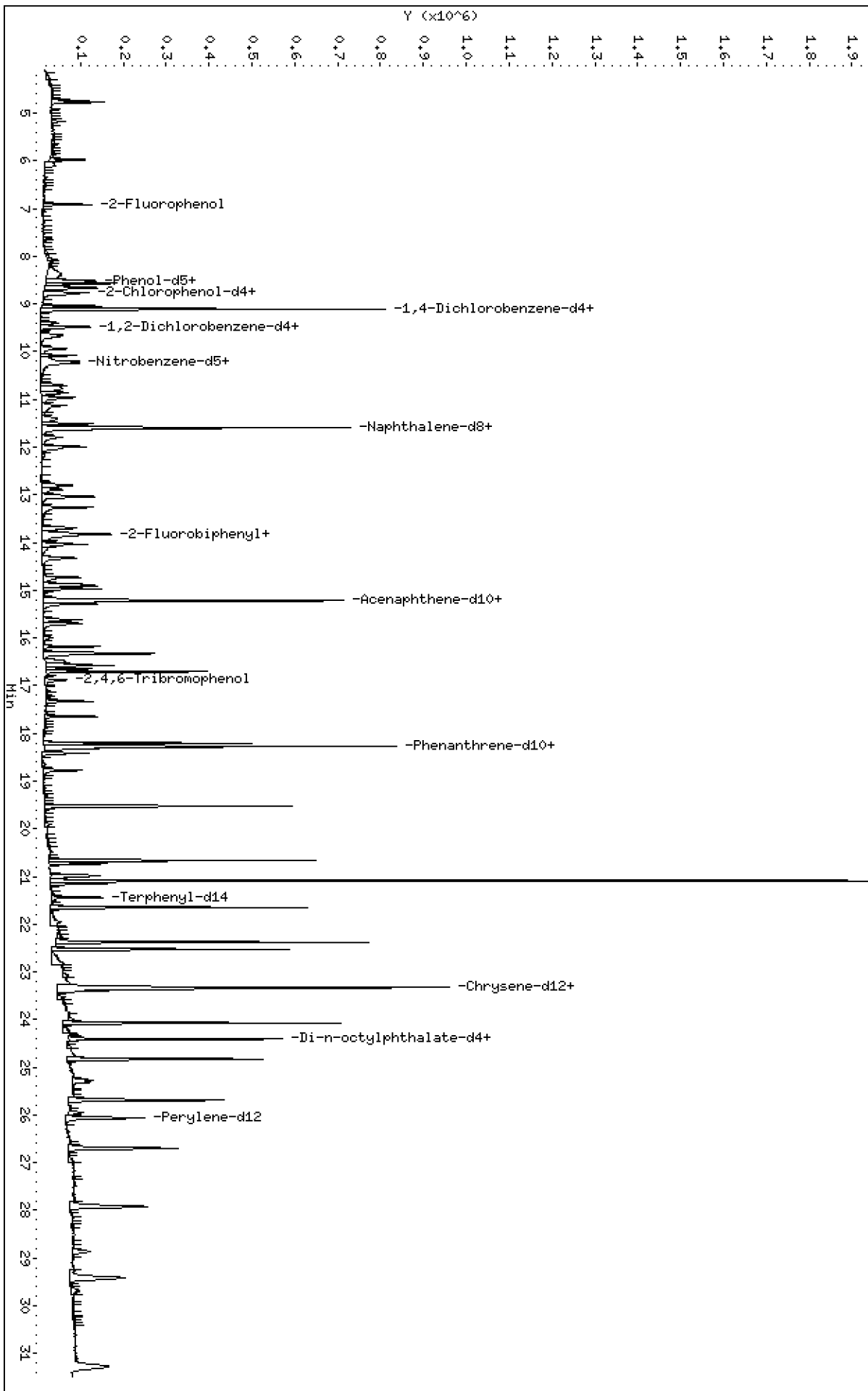
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

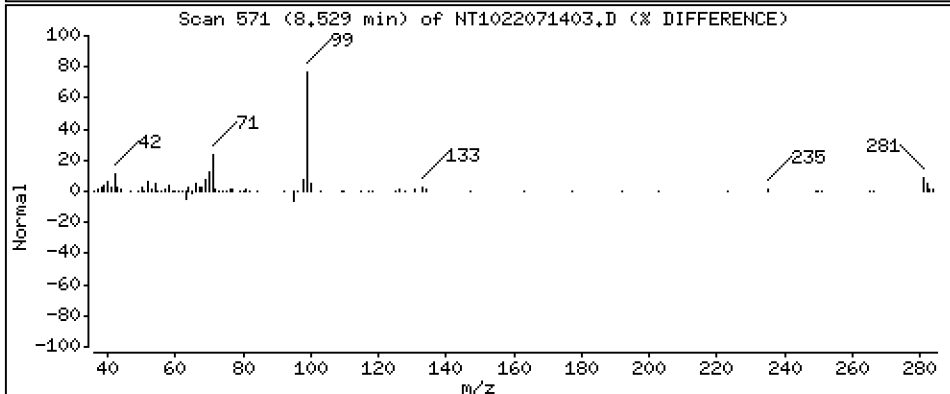
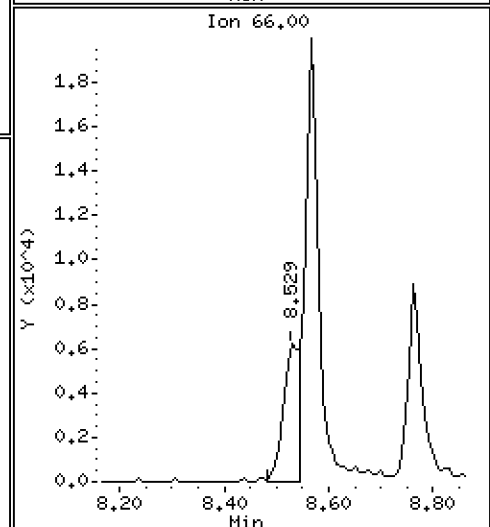
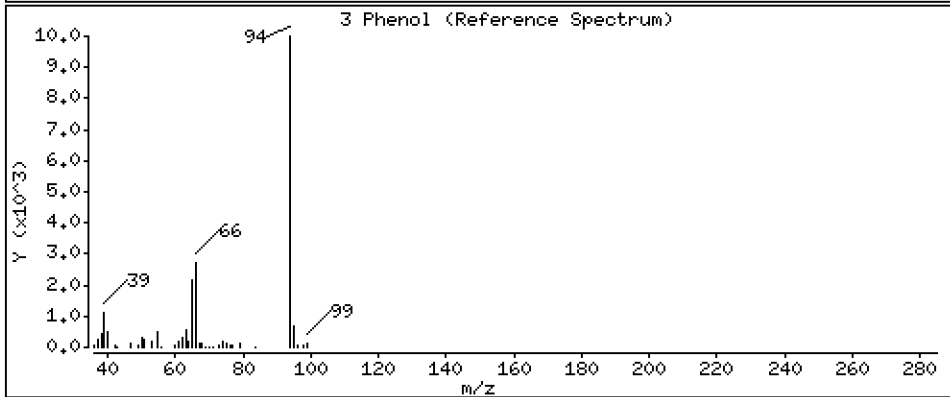
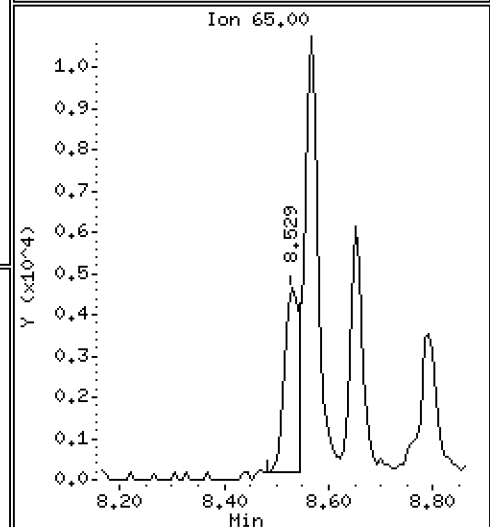
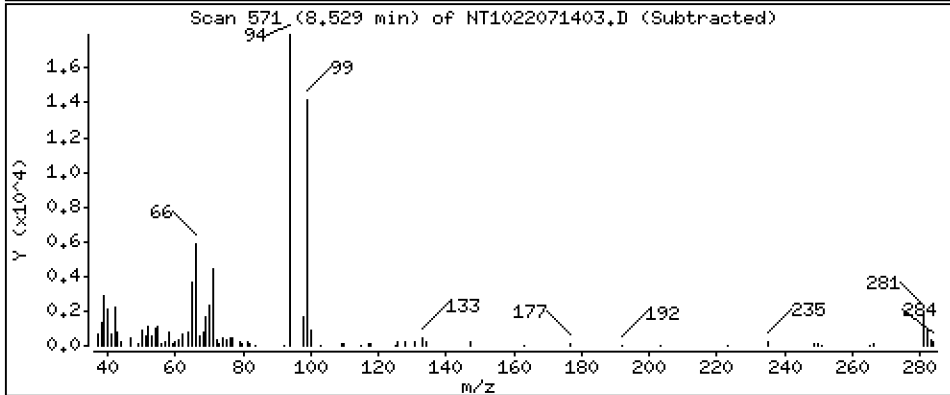
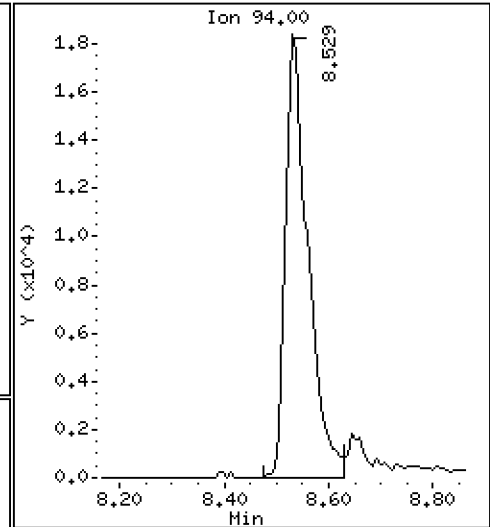
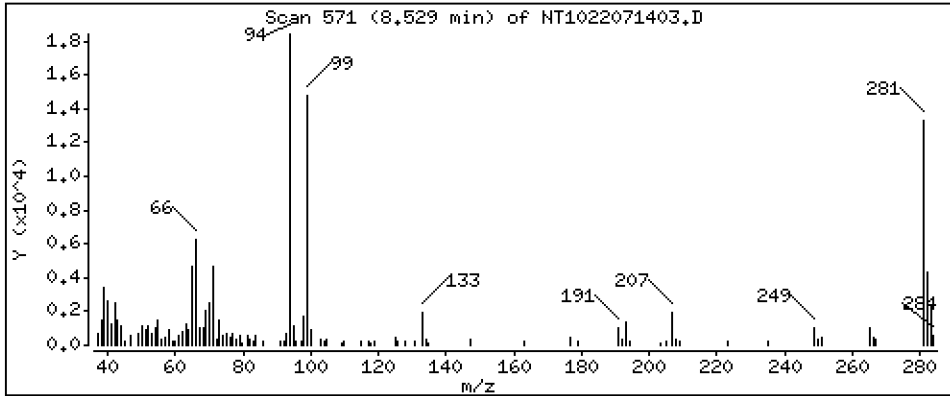
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,5077 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

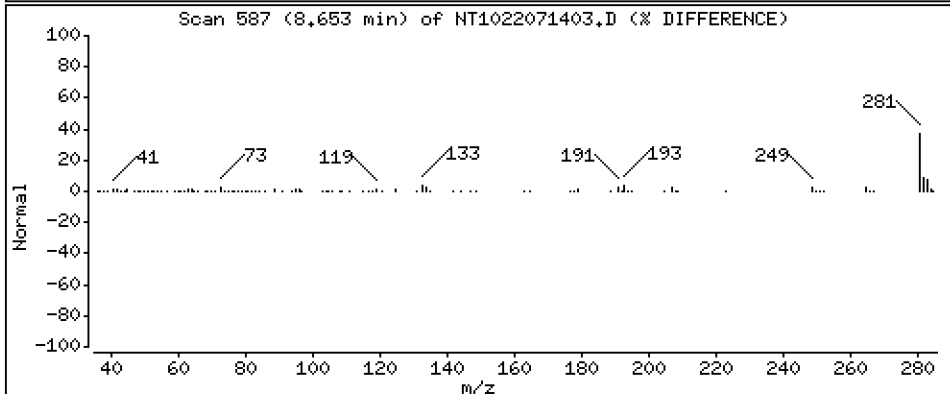
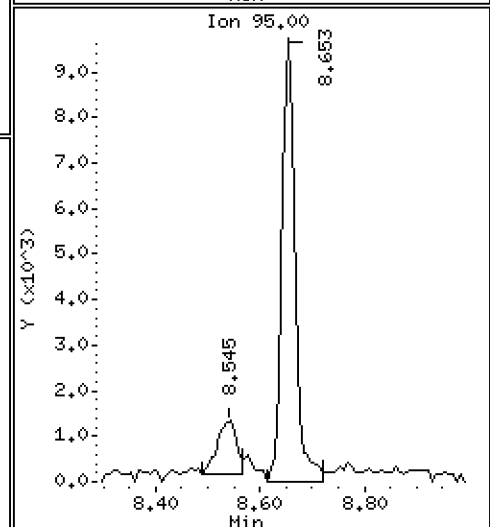
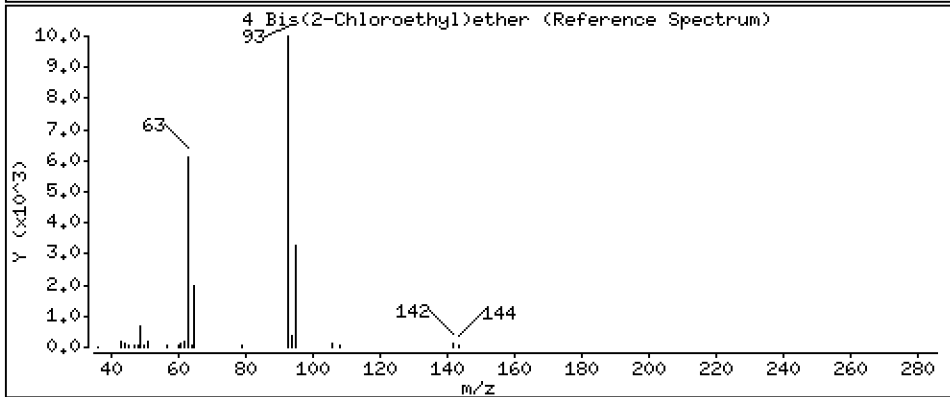
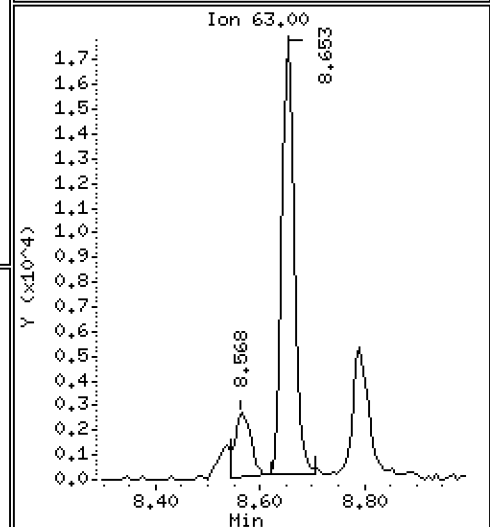
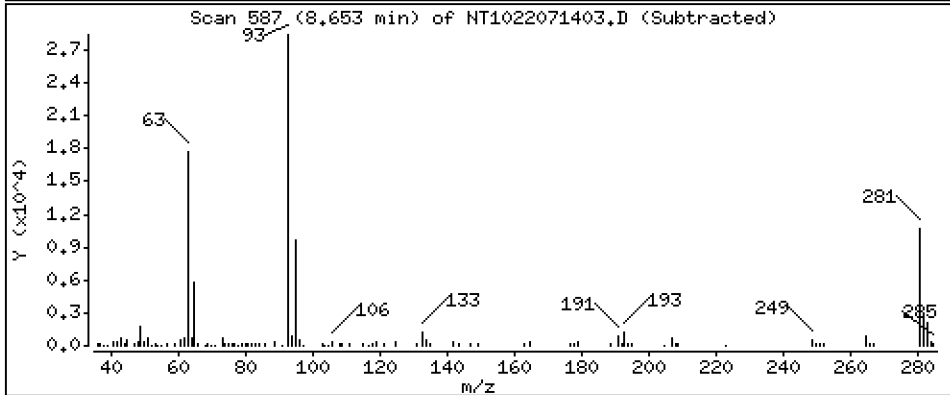
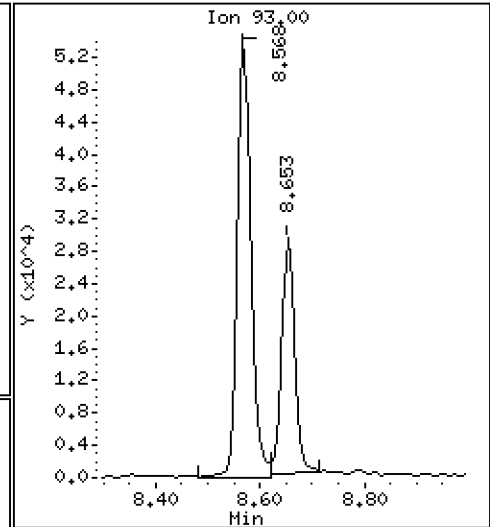
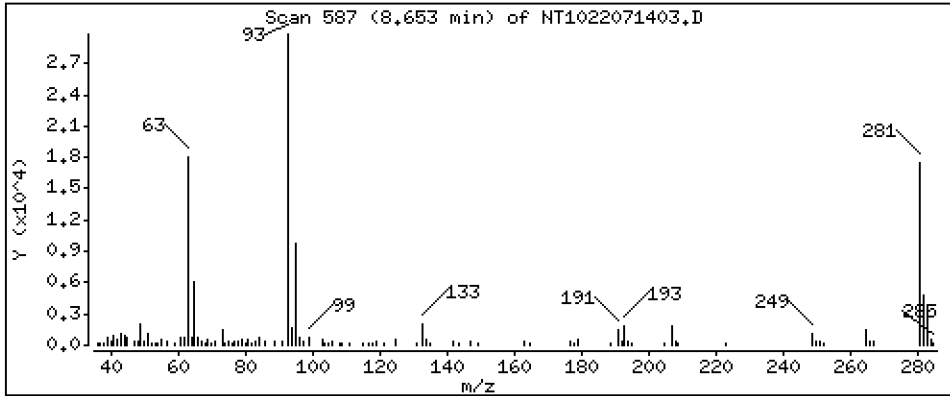
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,6009 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

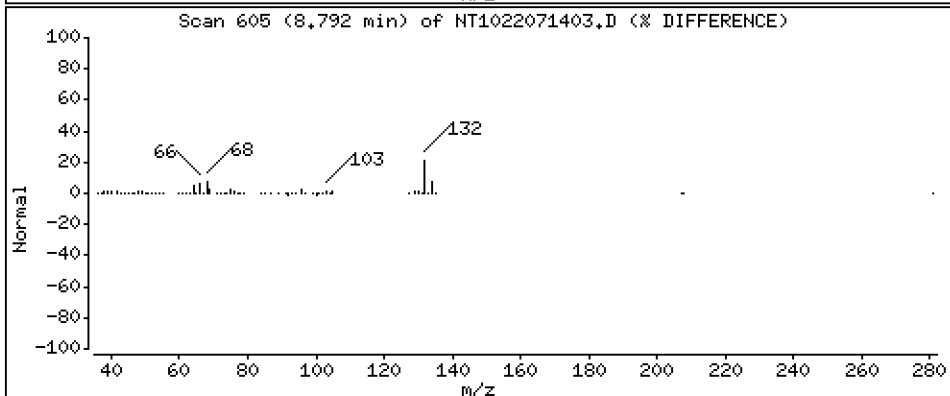
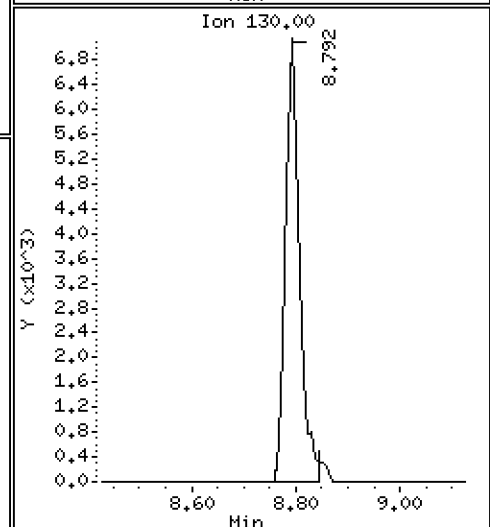
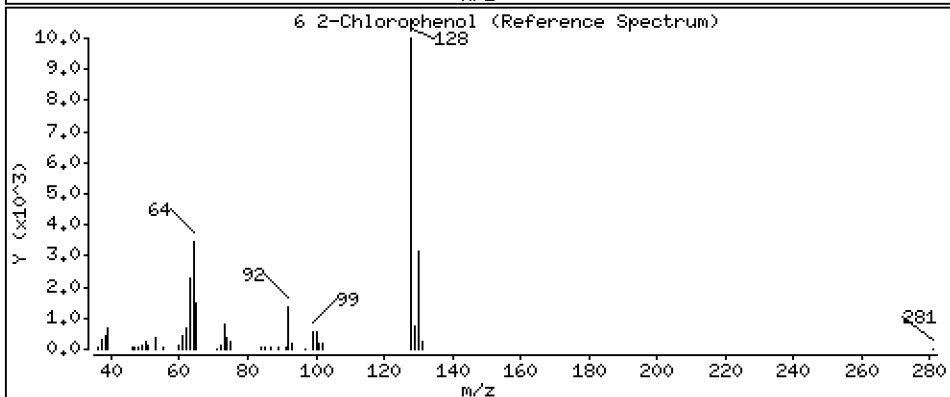
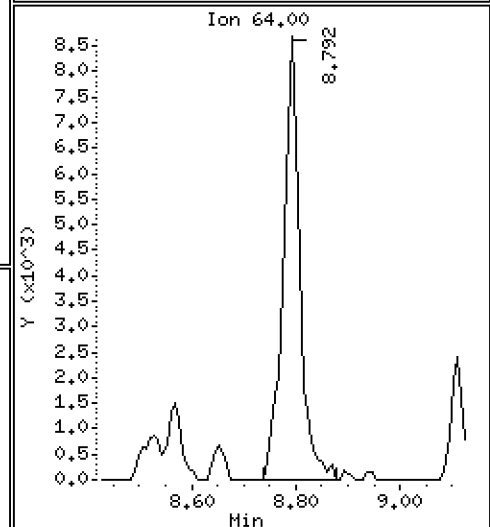
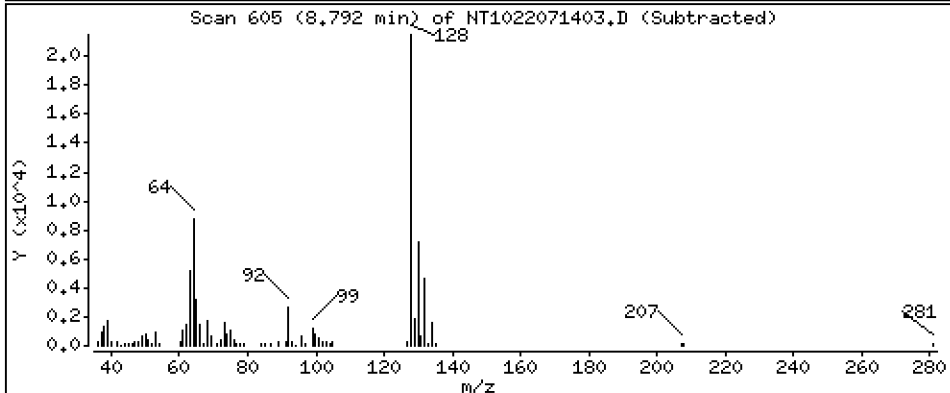
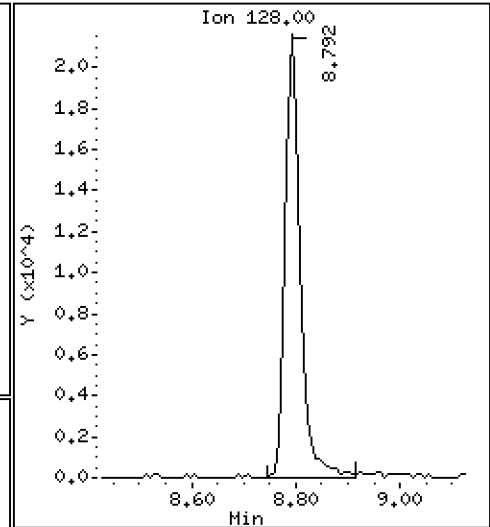
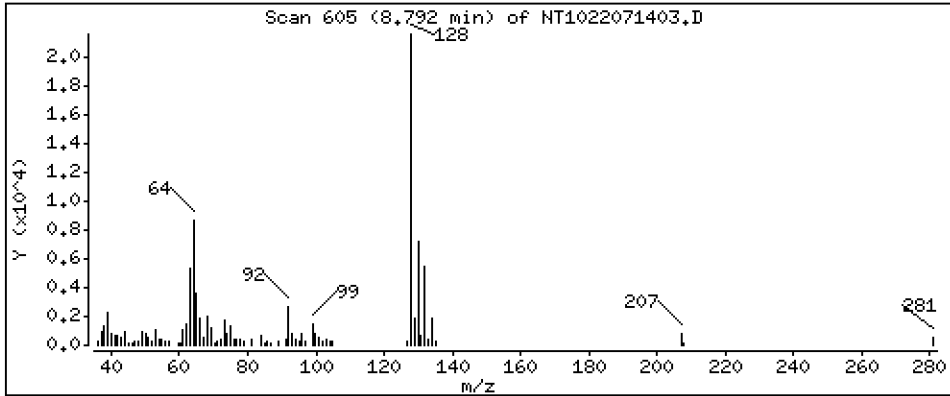
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,5269 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

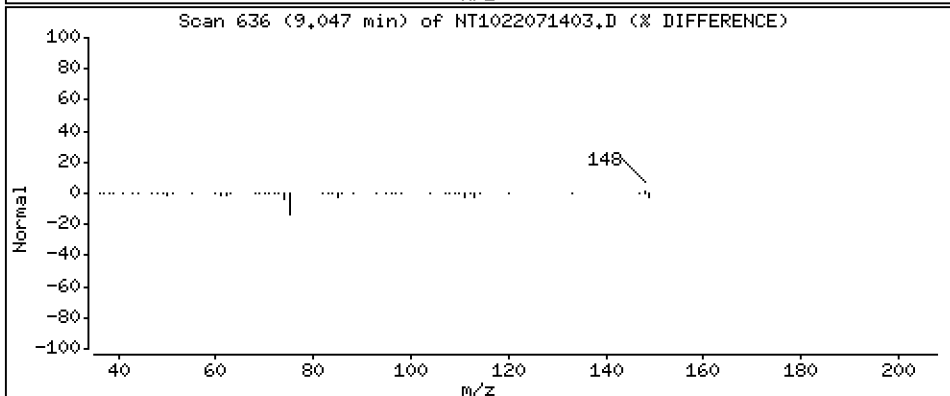
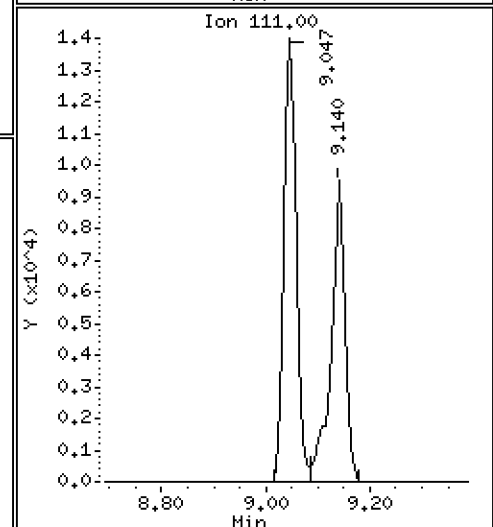
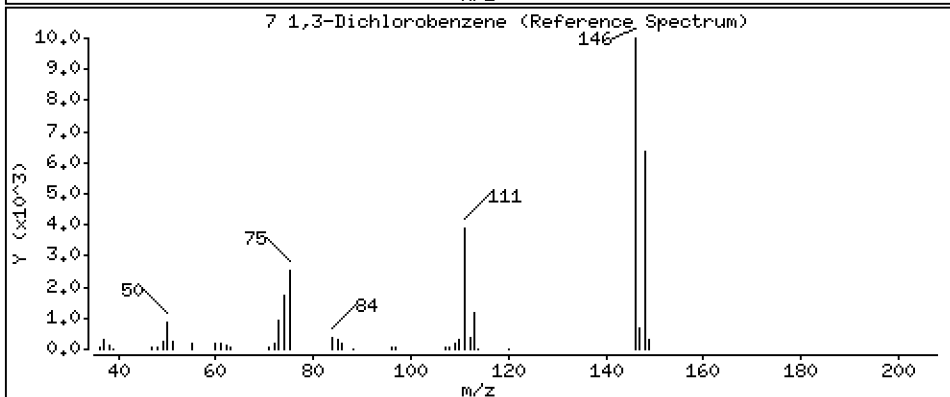
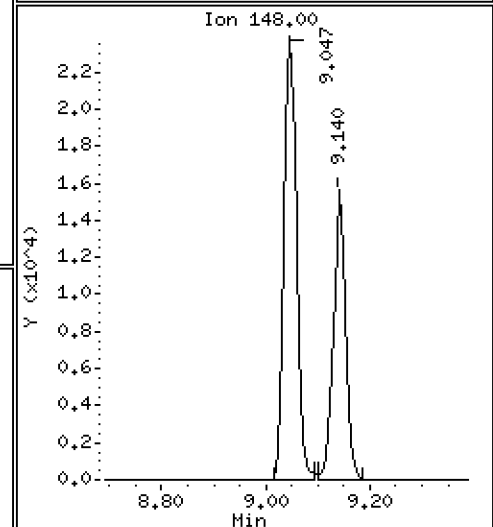
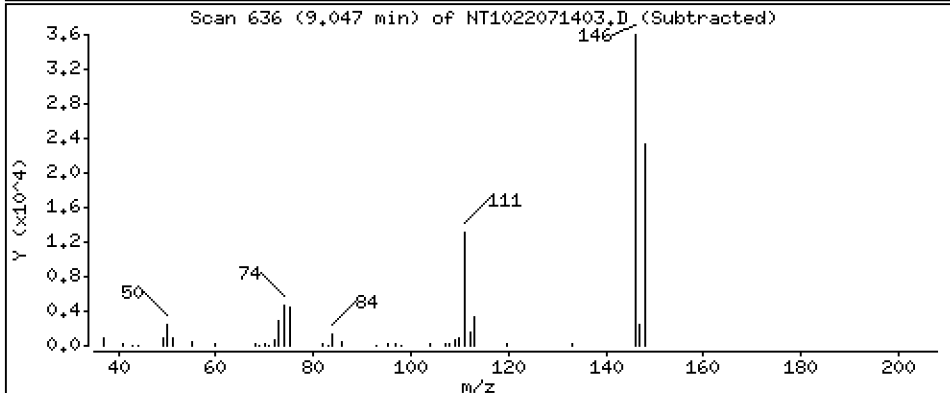
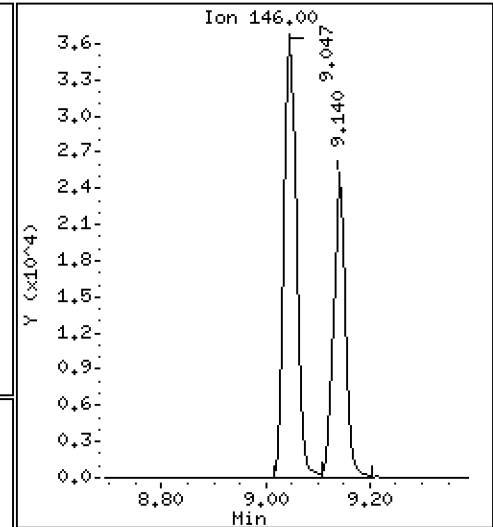
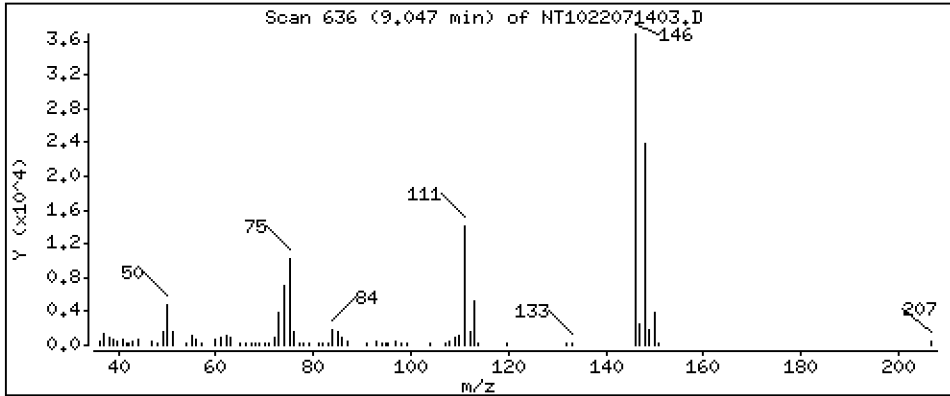
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,6128 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

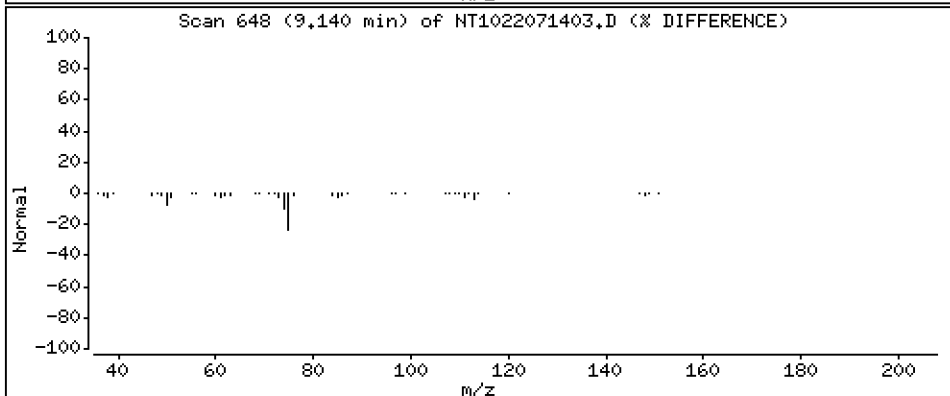
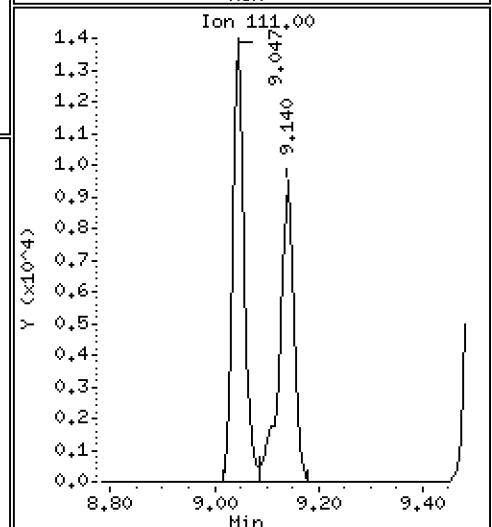
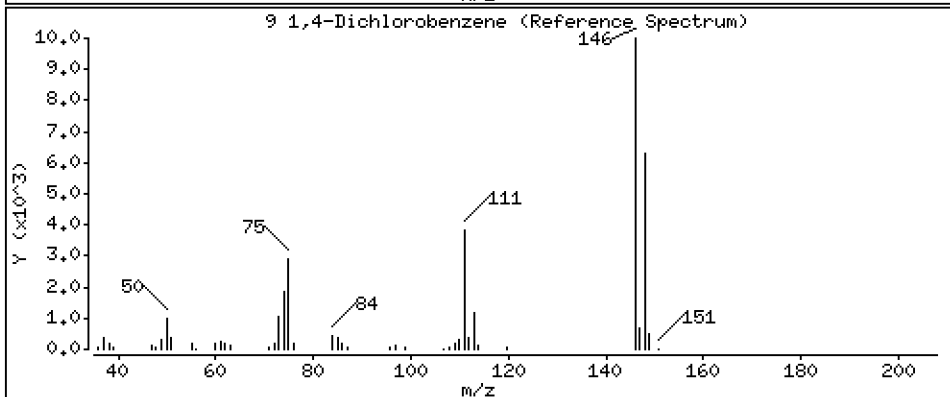
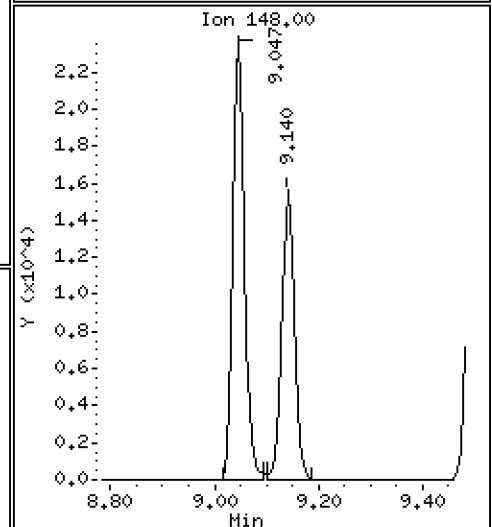
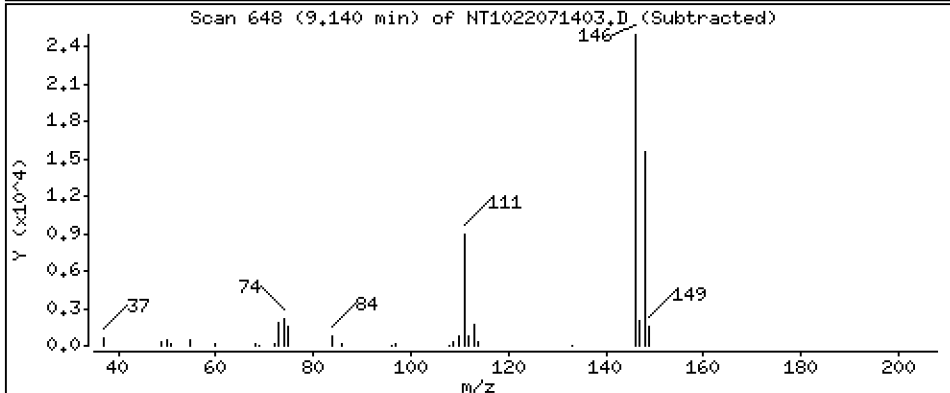
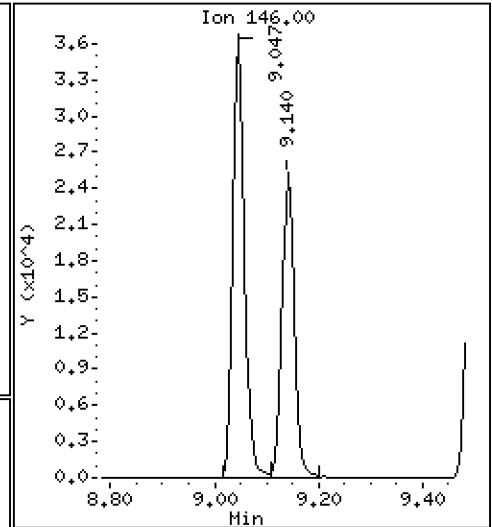
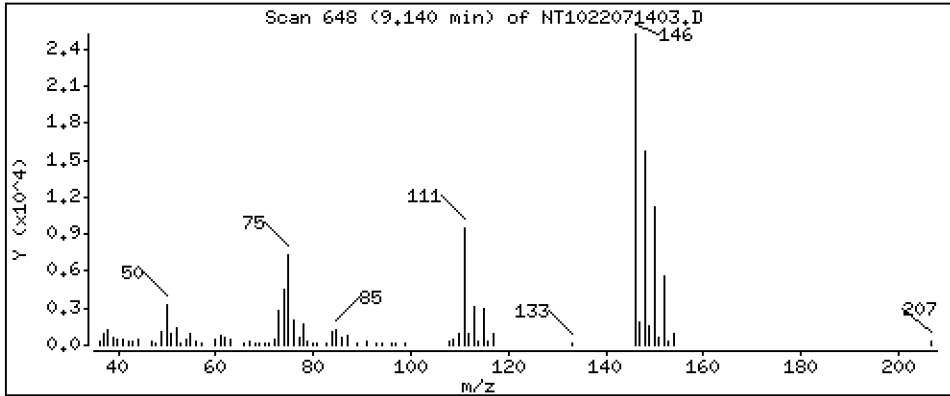
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,5269 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

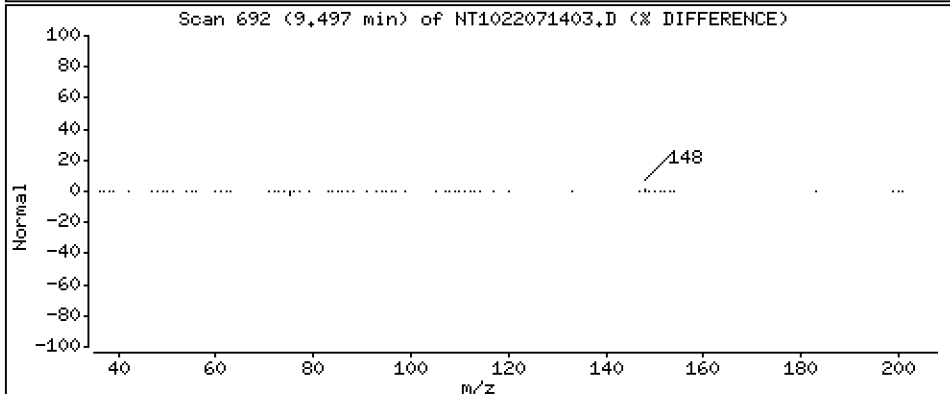
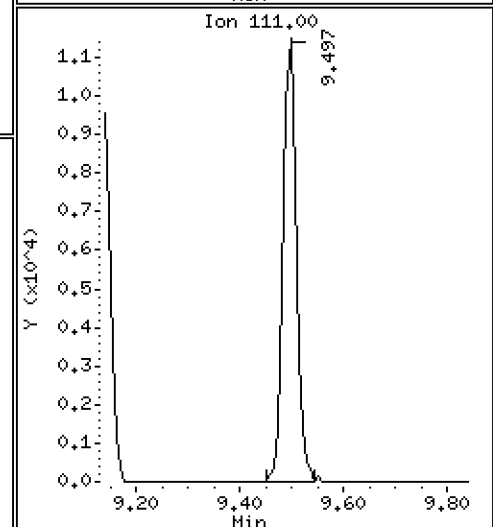
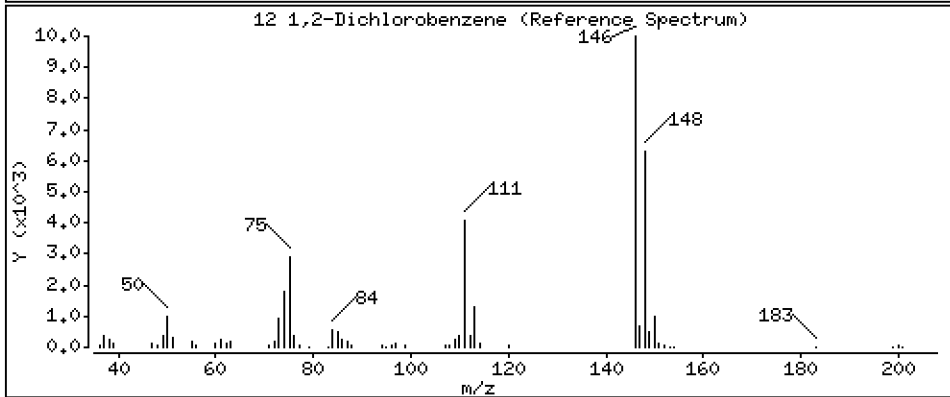
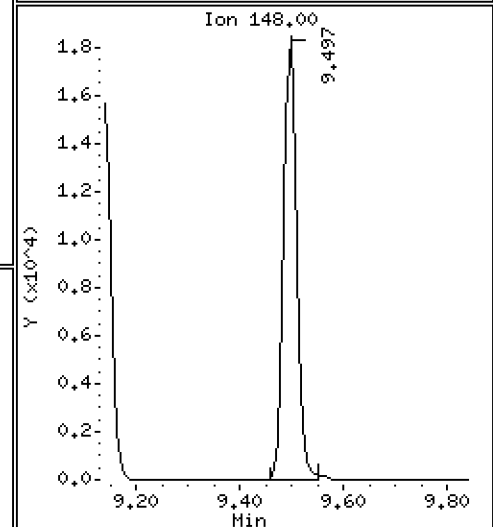
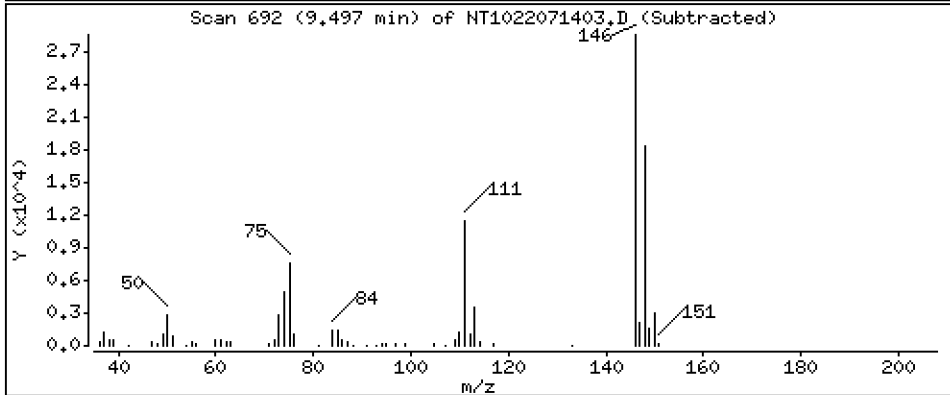
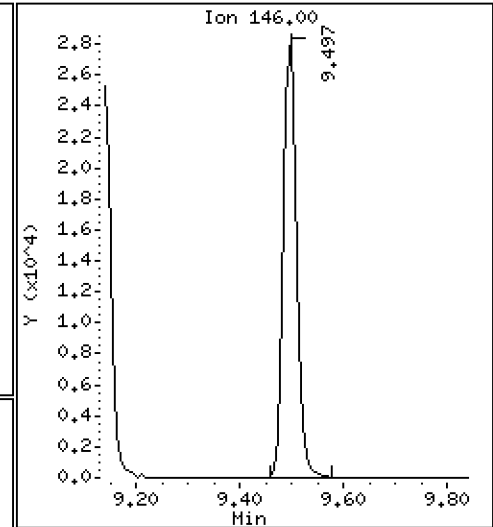
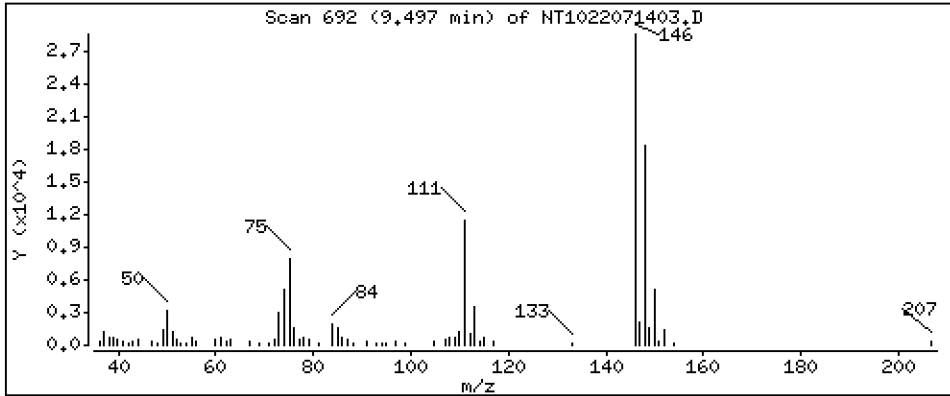
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.6021 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

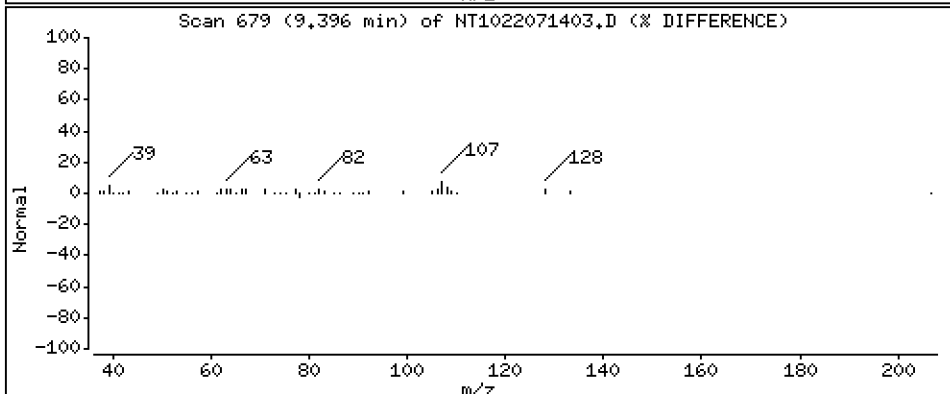
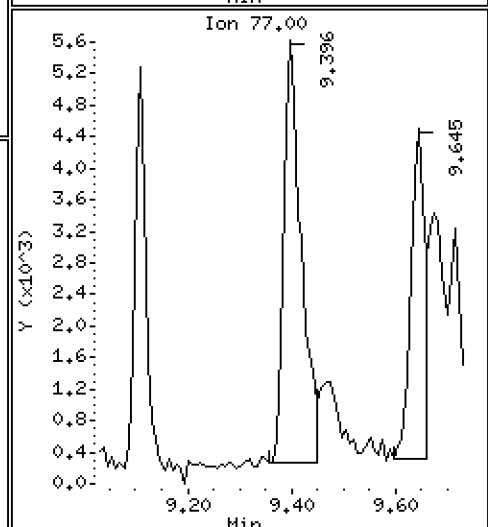
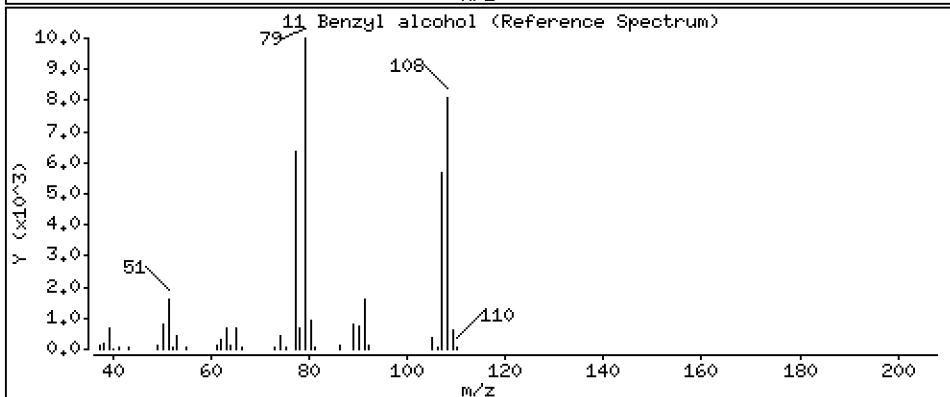
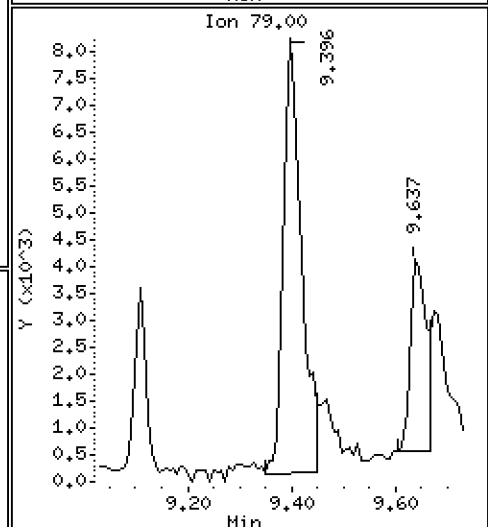
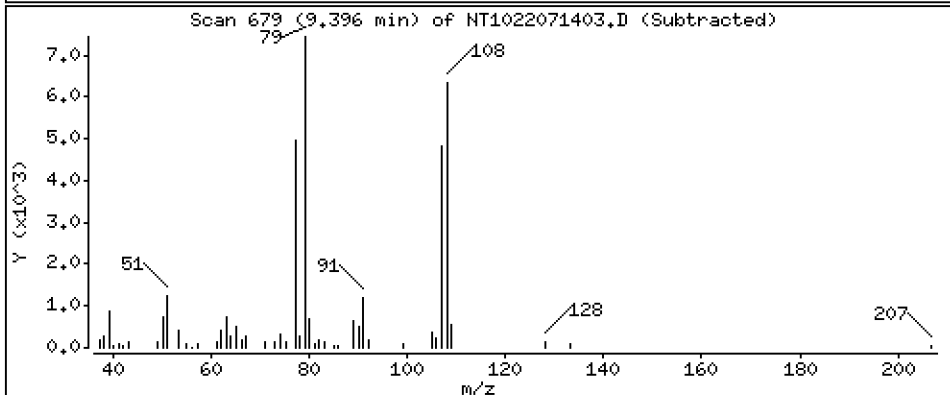
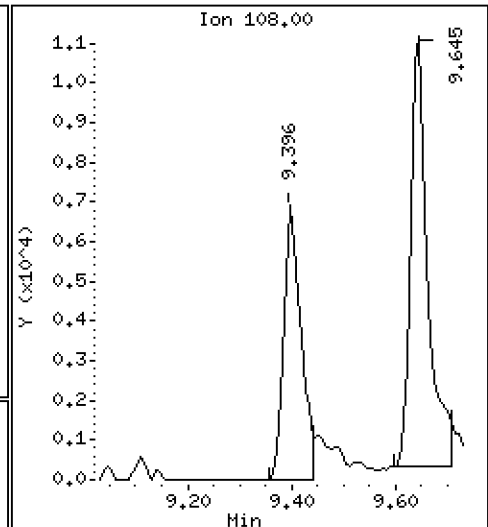
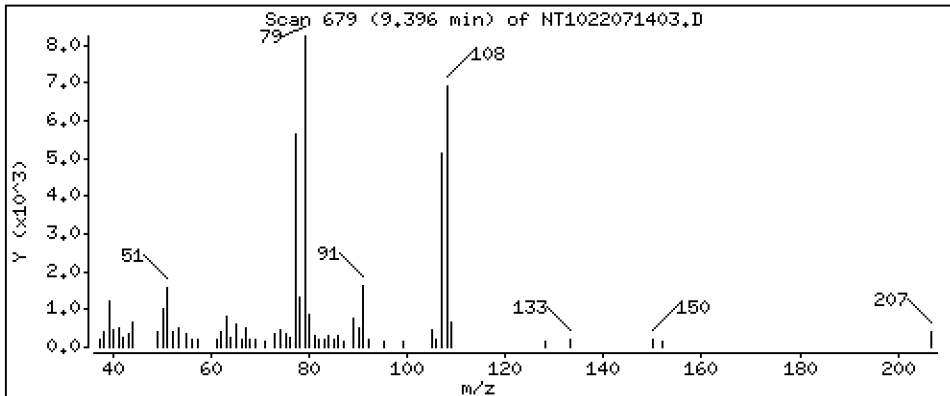
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.3678 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

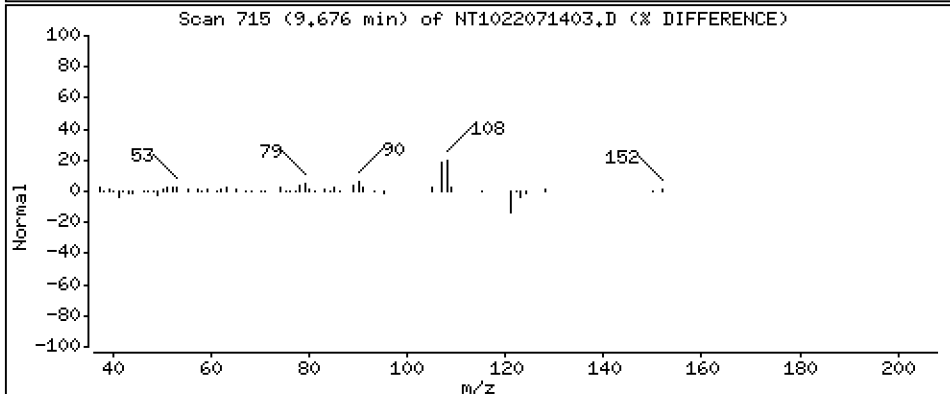
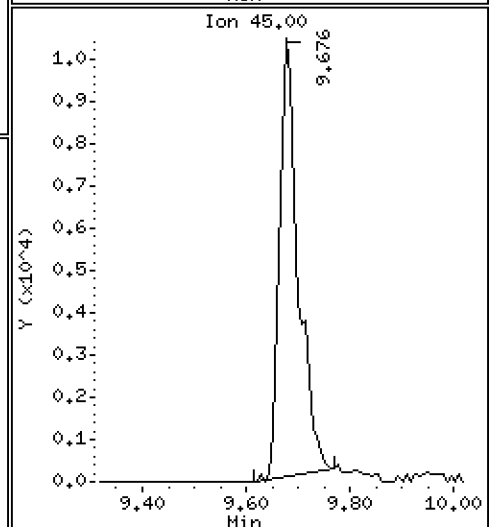
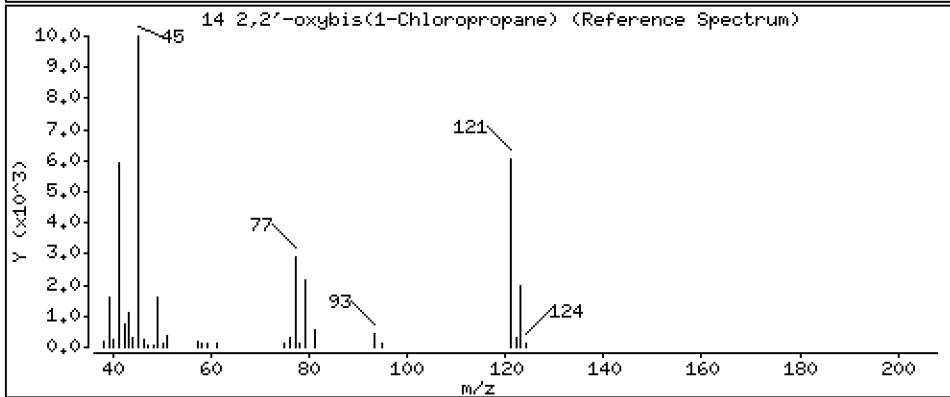
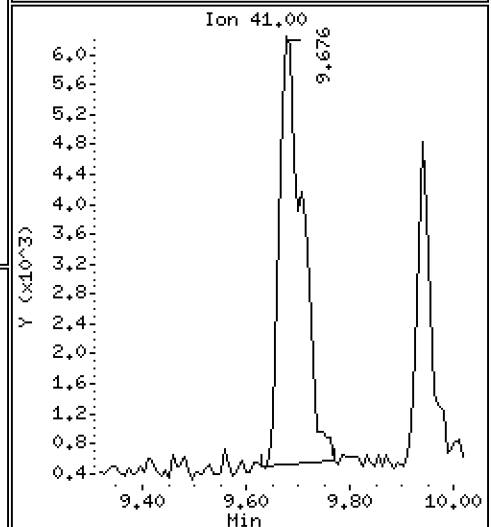
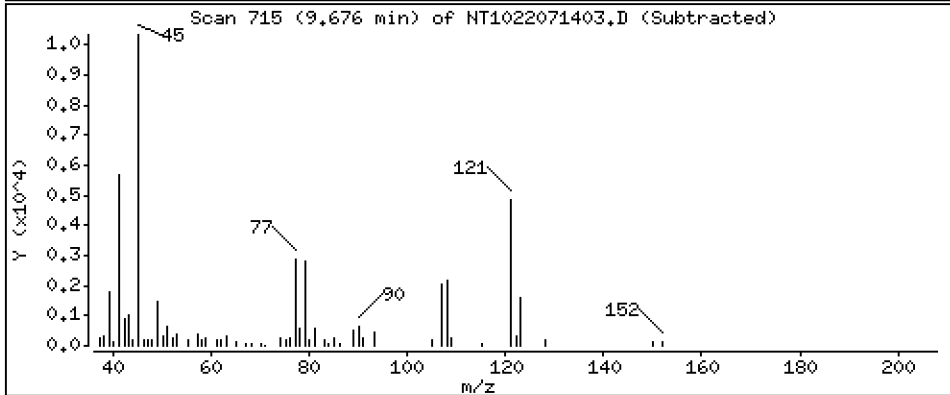
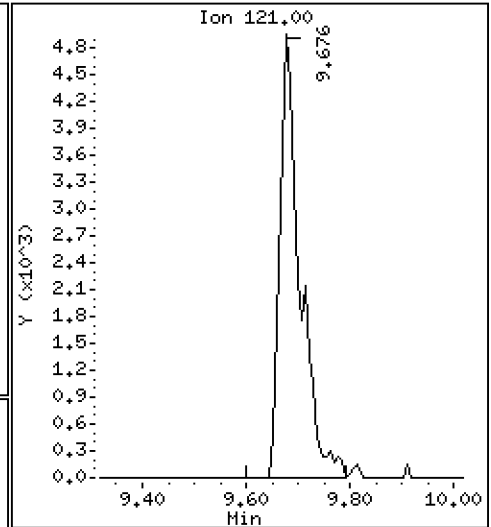
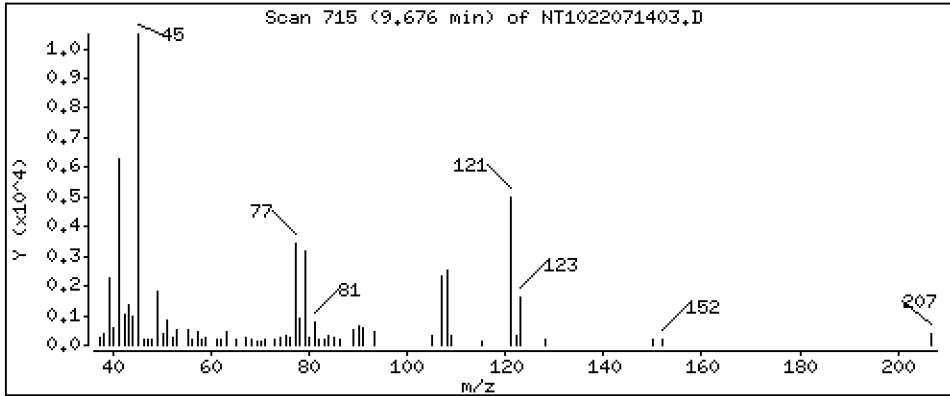
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,7190 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

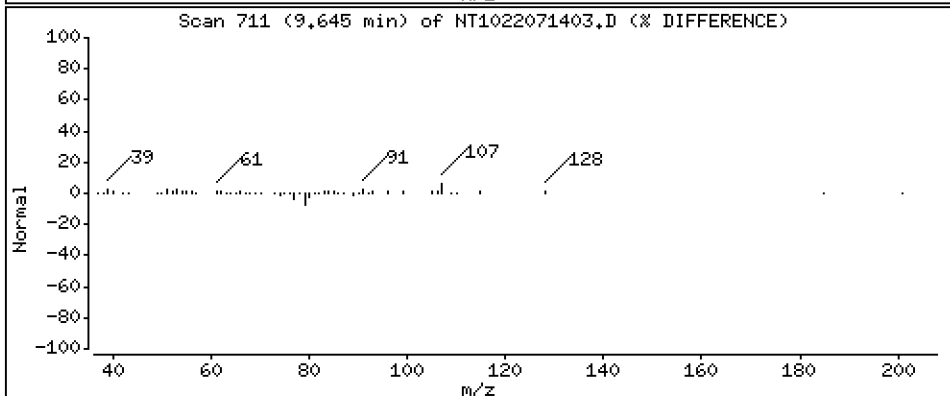
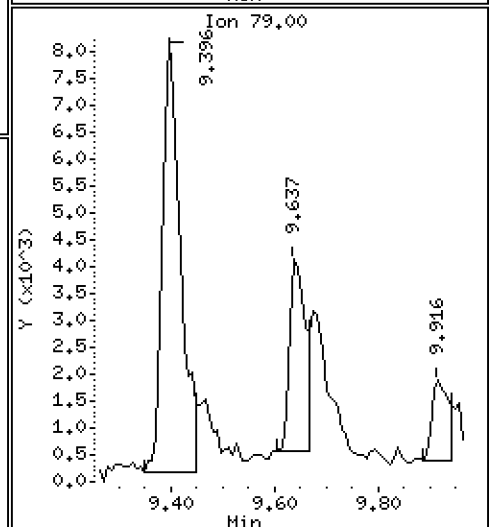
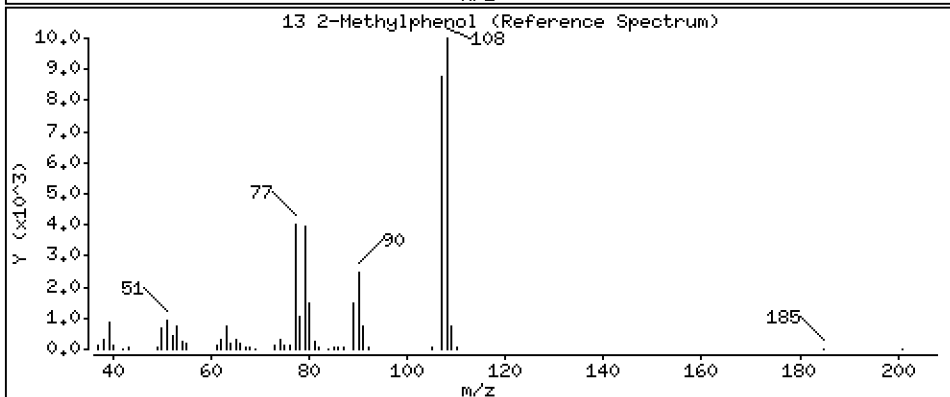
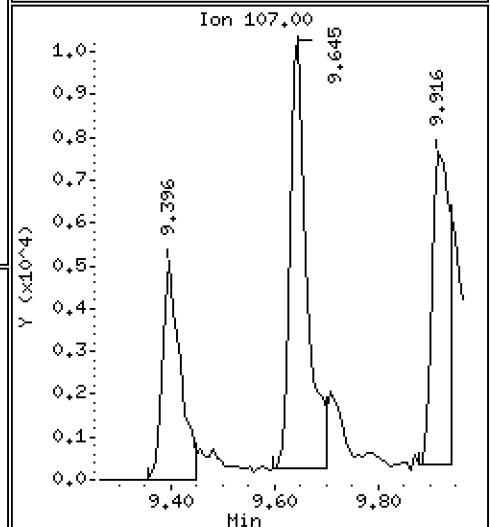
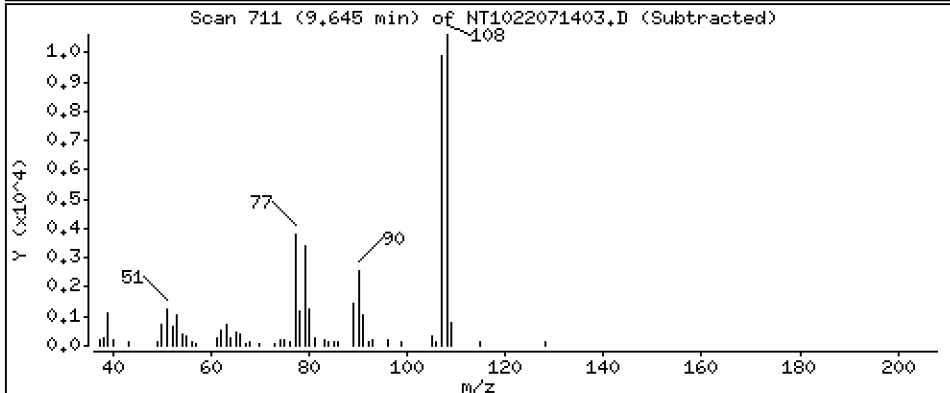
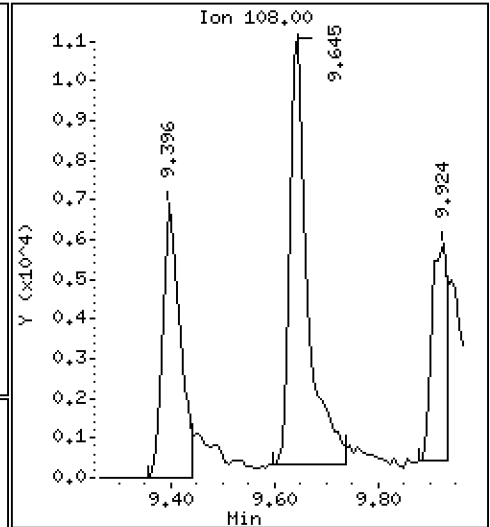
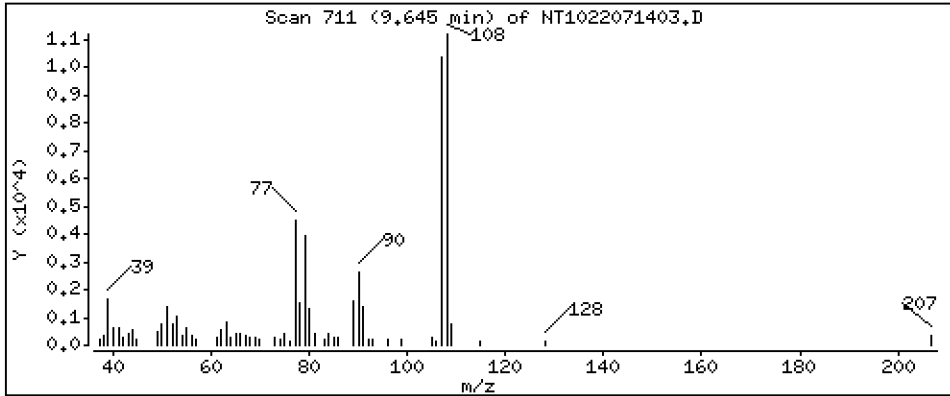
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.3960 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

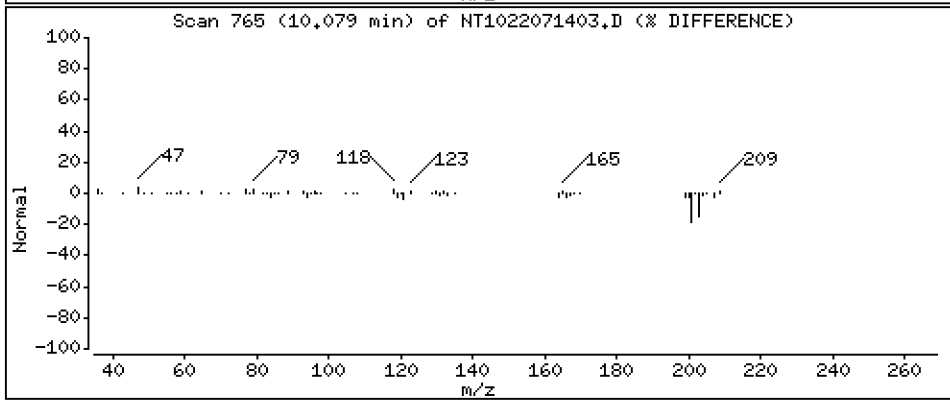
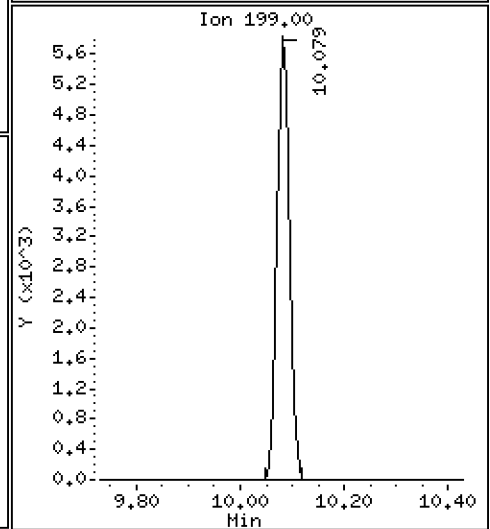
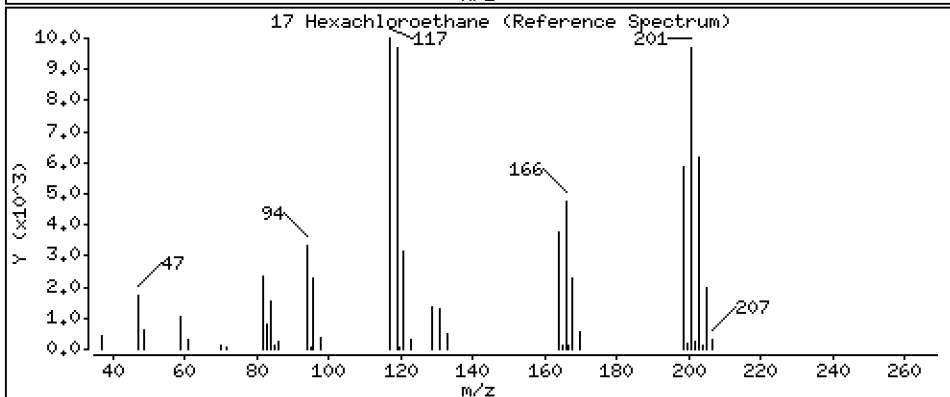
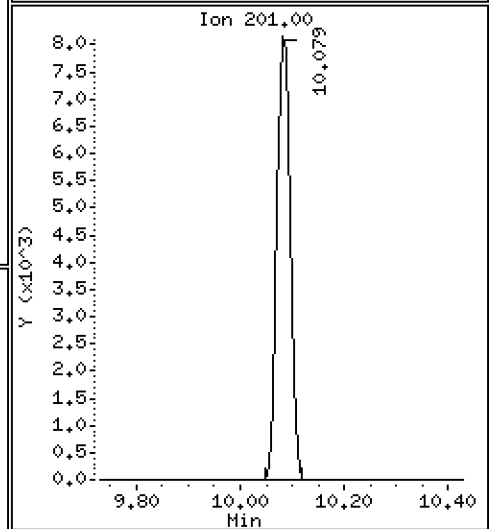
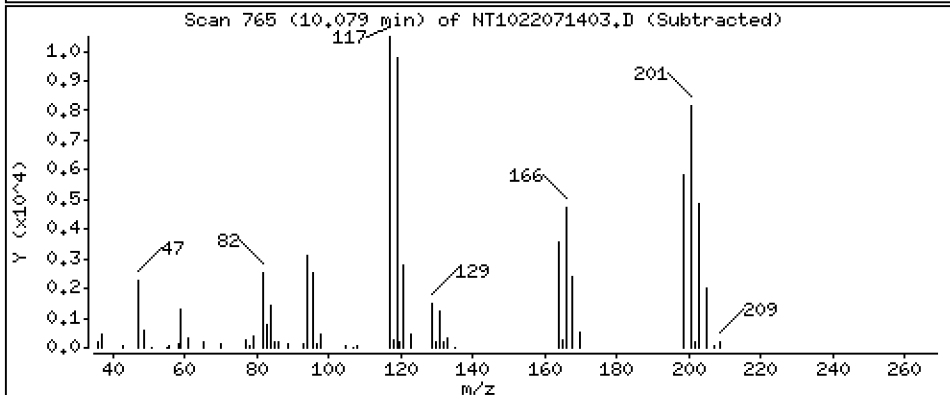
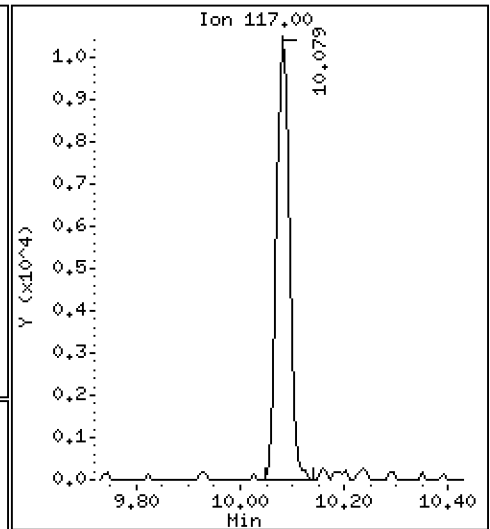
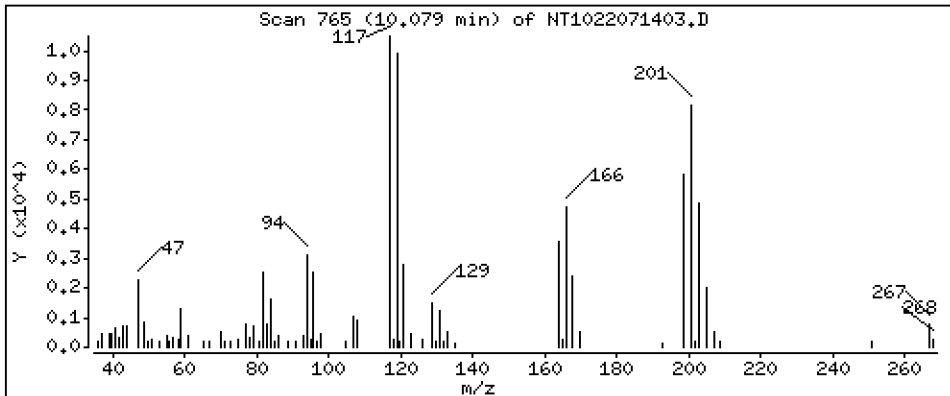
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,5211 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

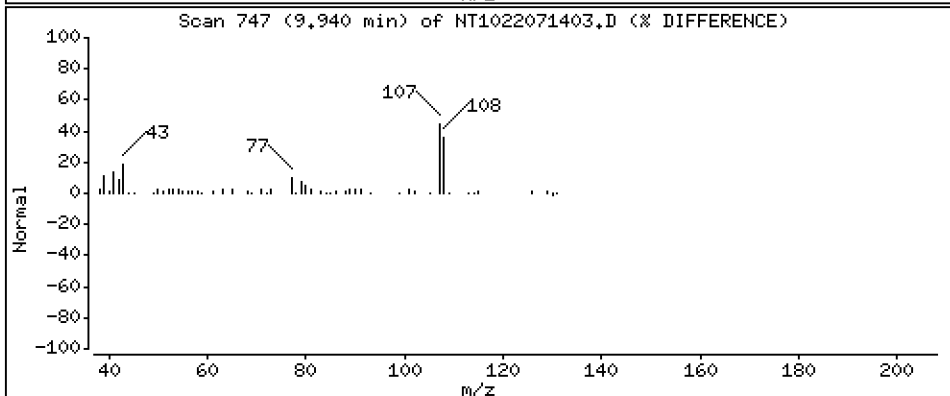
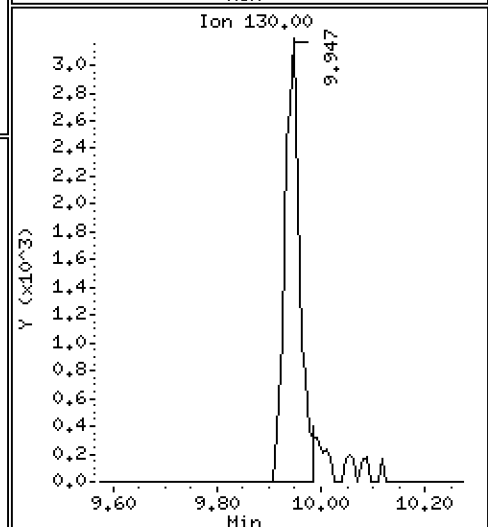
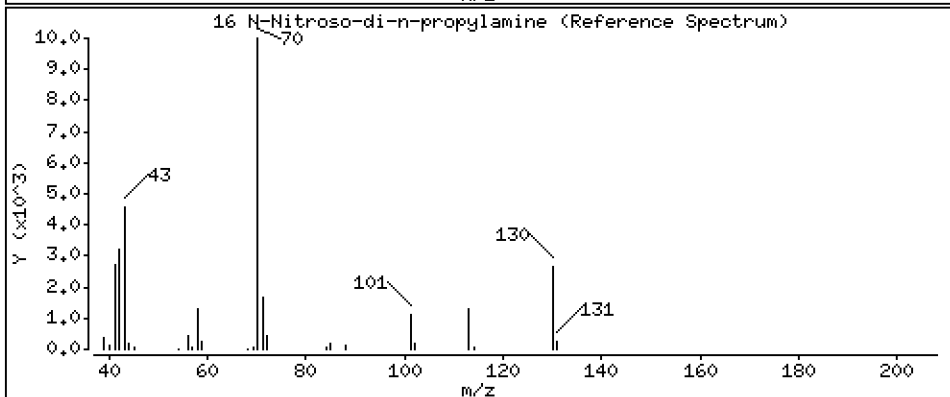
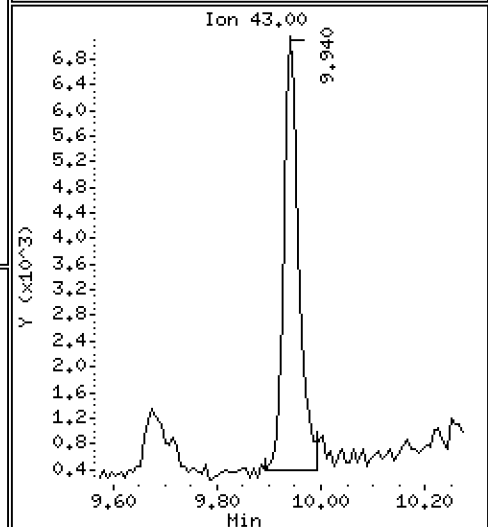
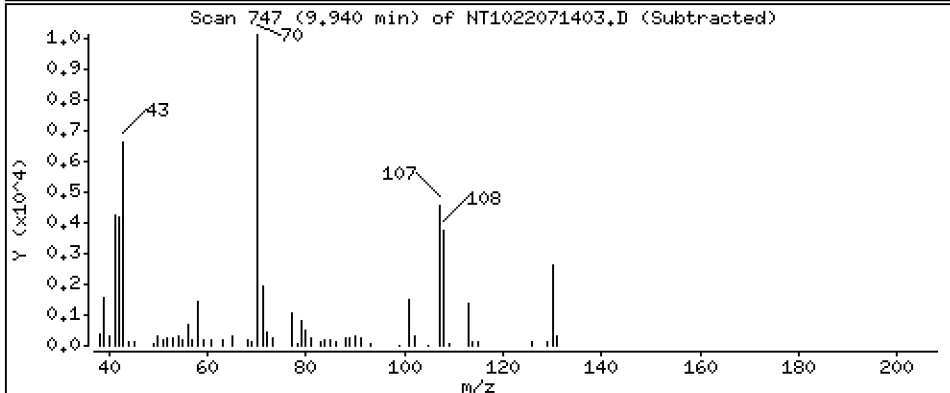
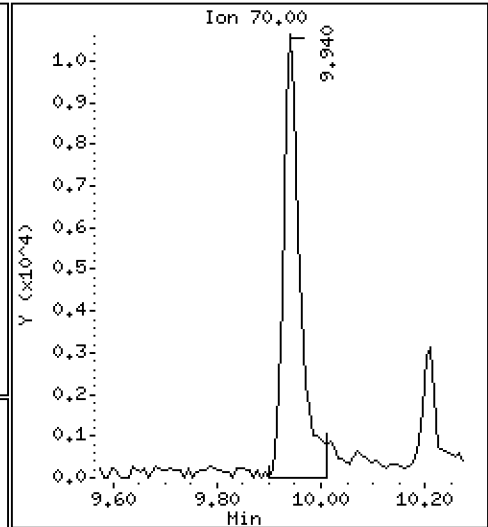
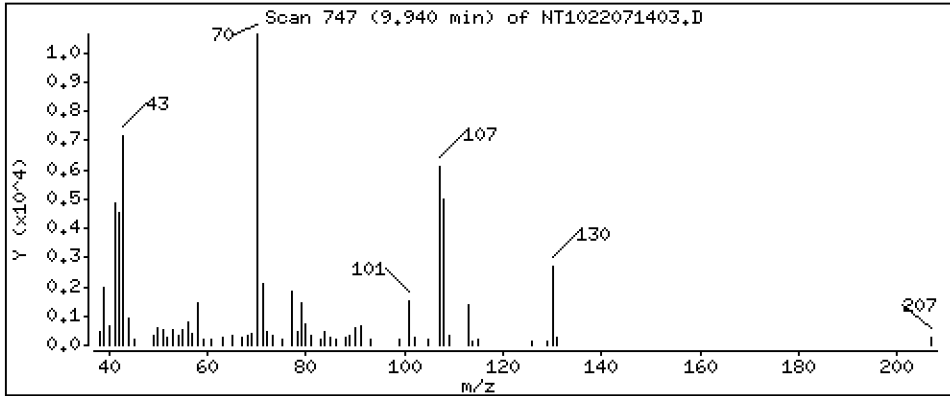
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,5134 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

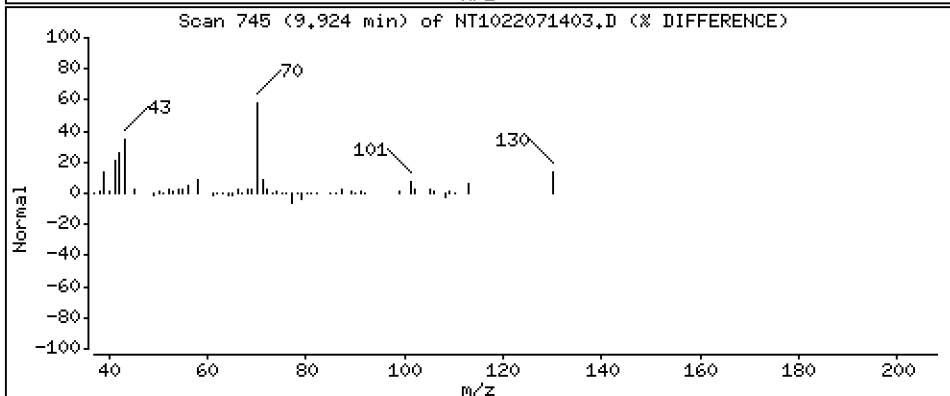
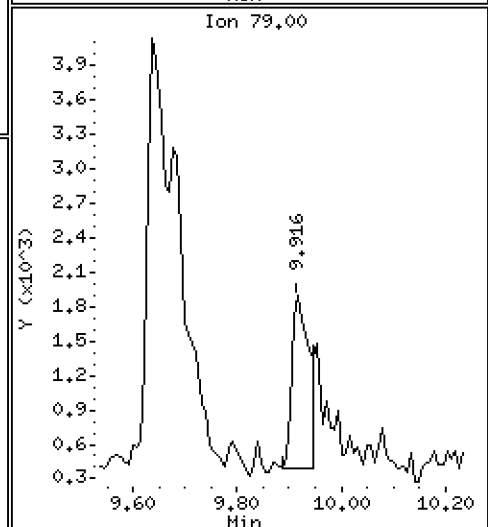
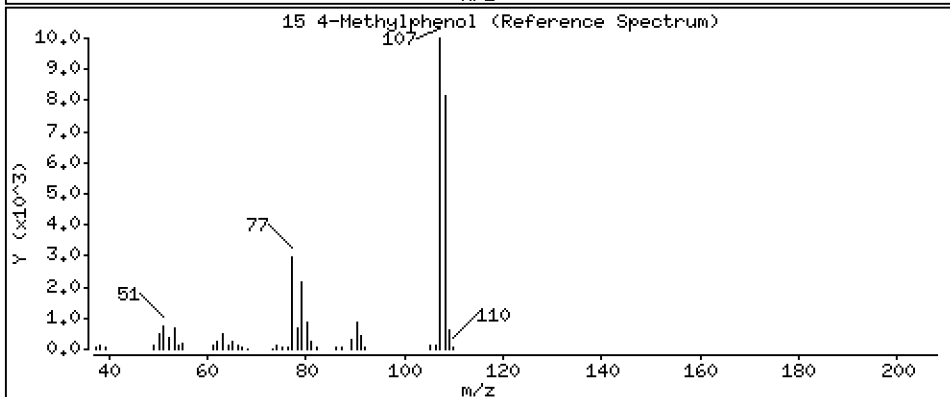
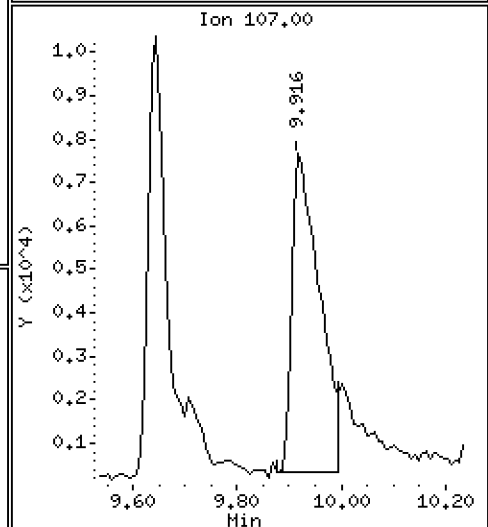
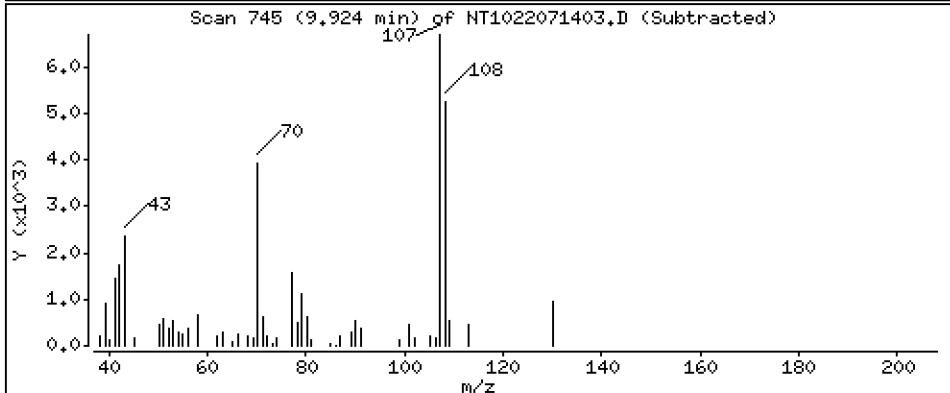
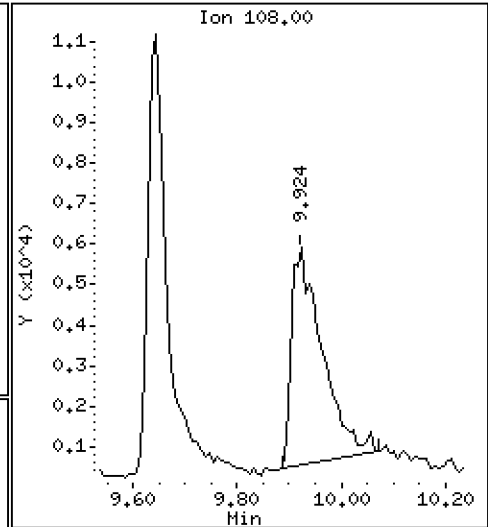
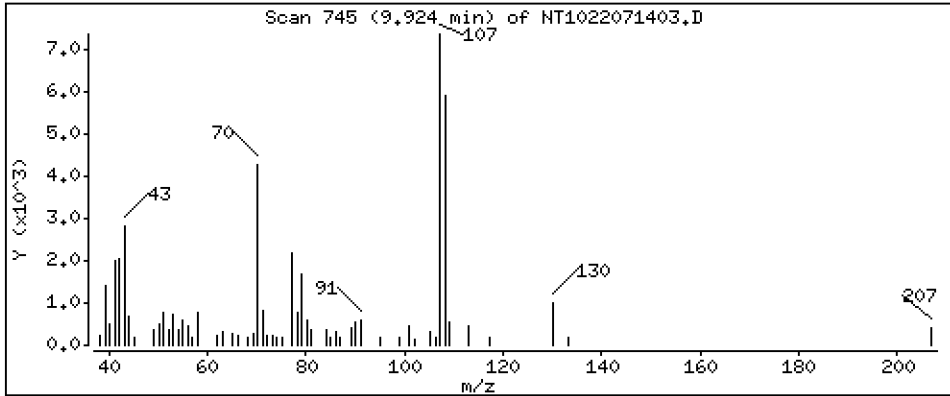
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.3110 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

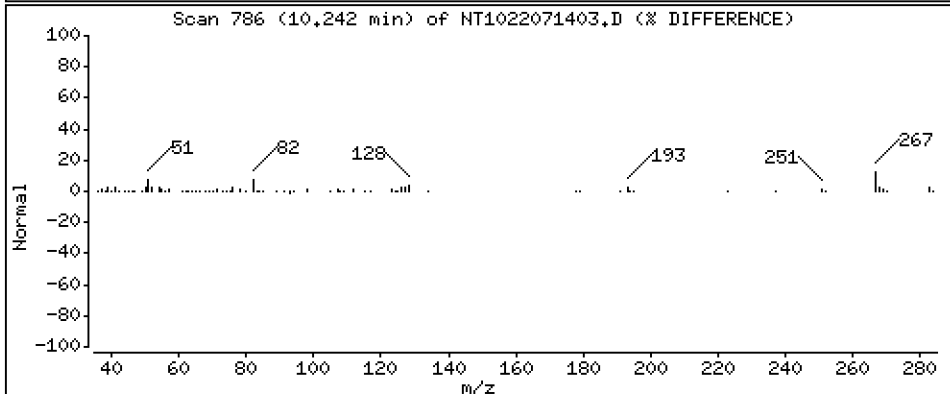
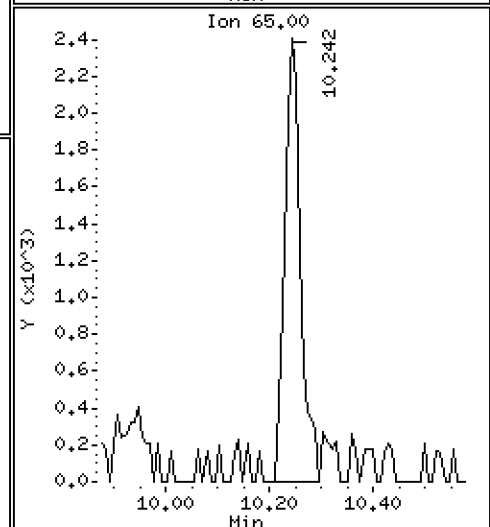
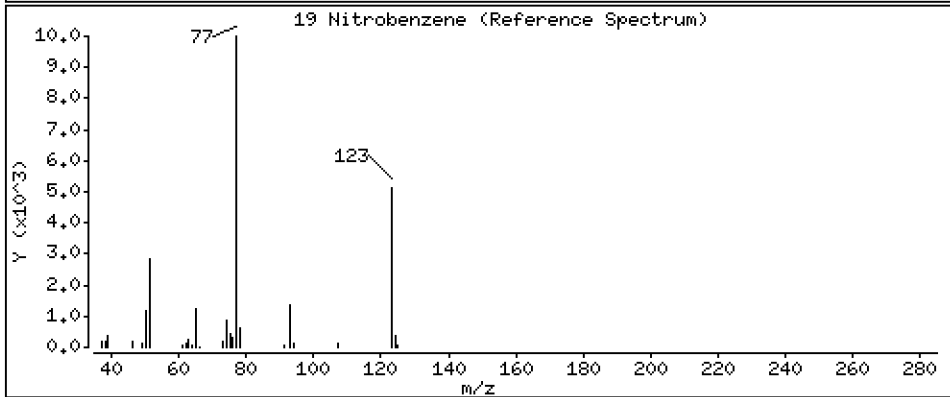
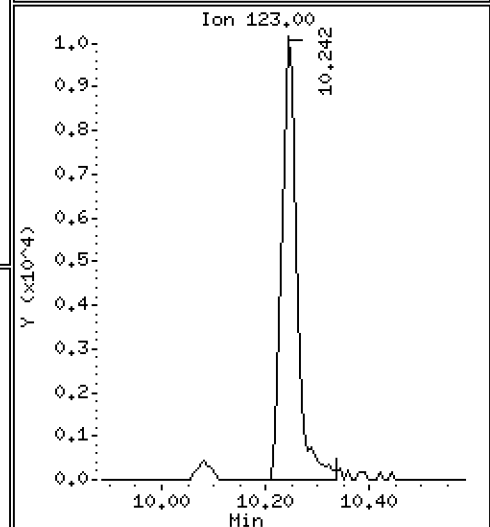
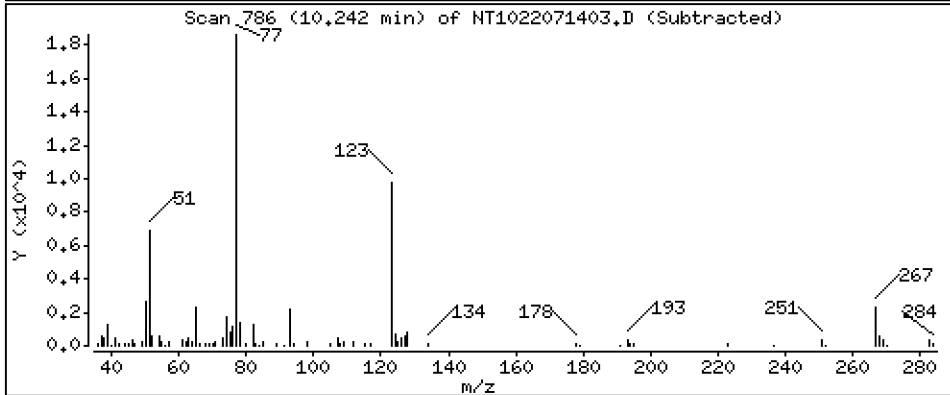
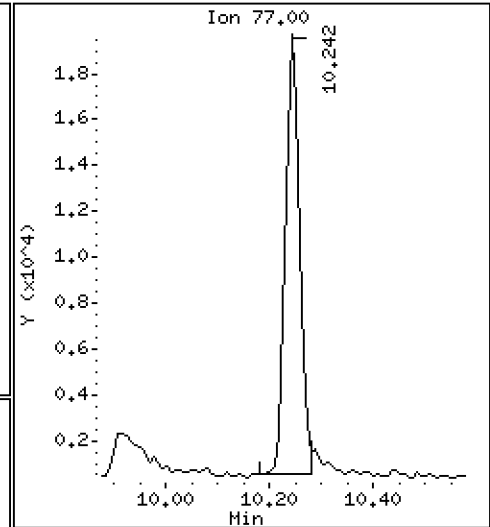
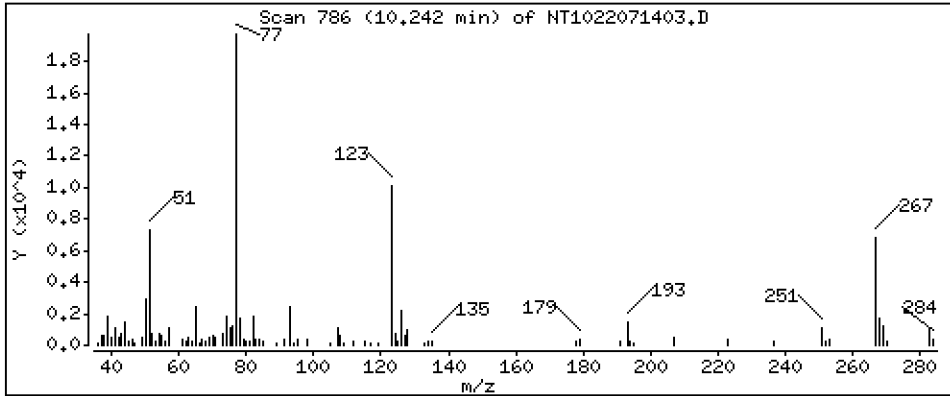
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,4818 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

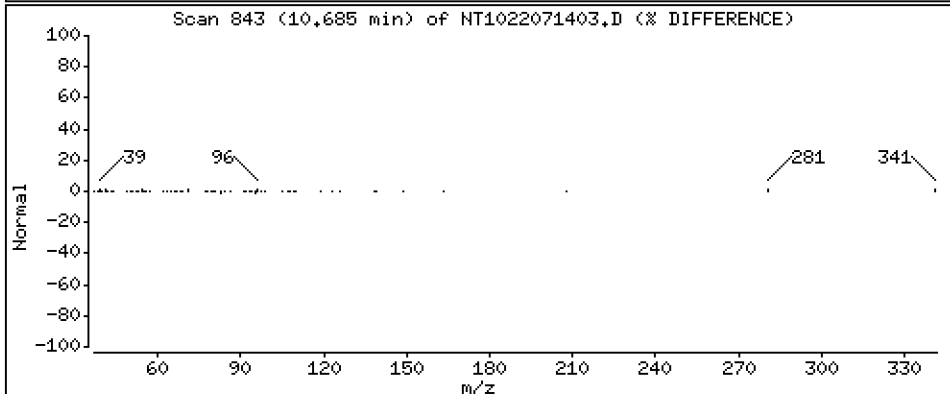
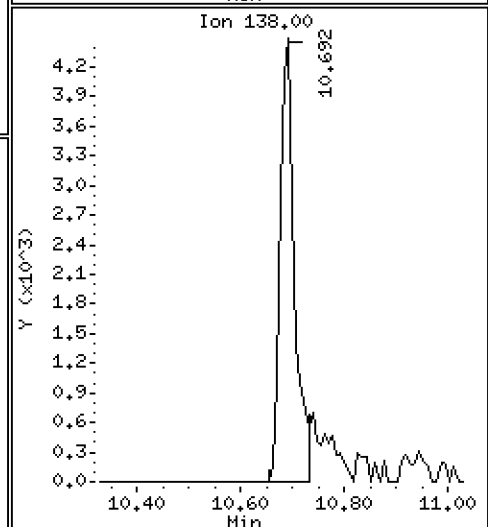
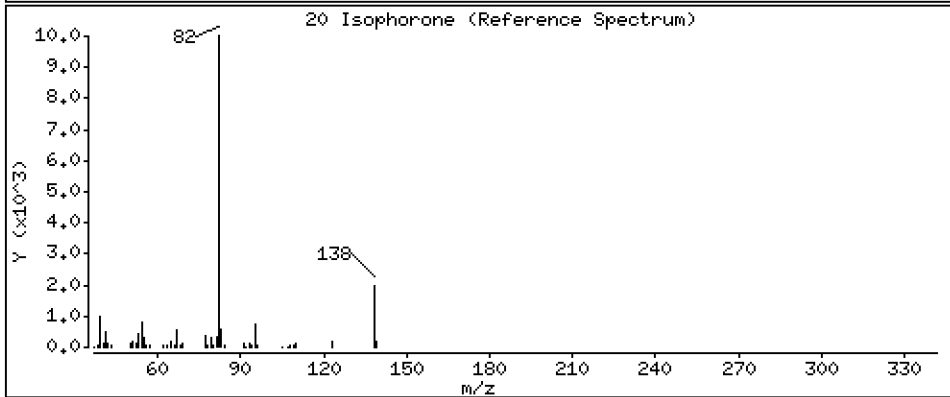
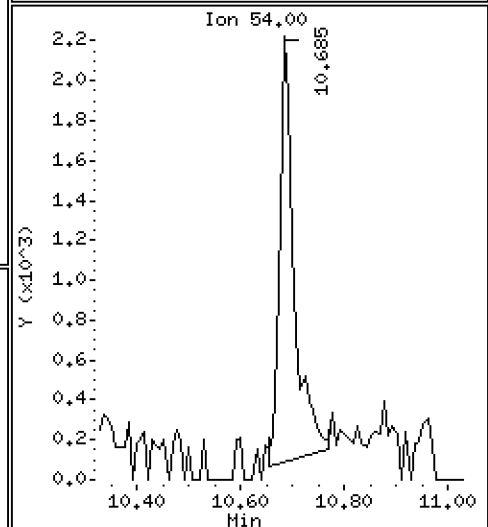
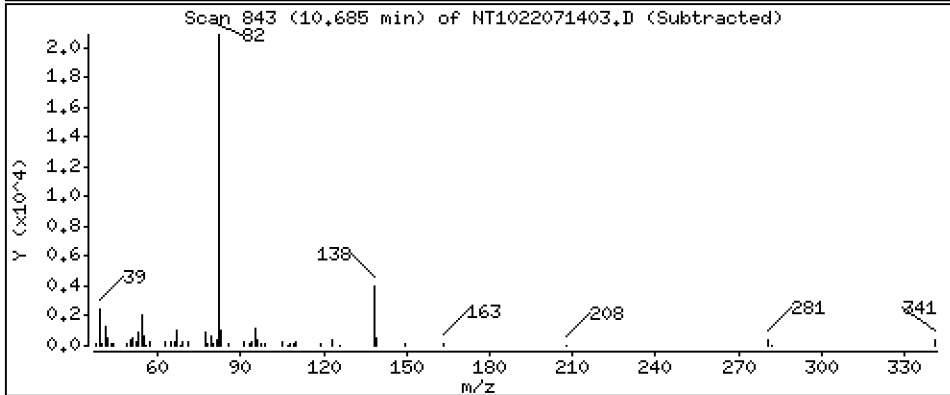
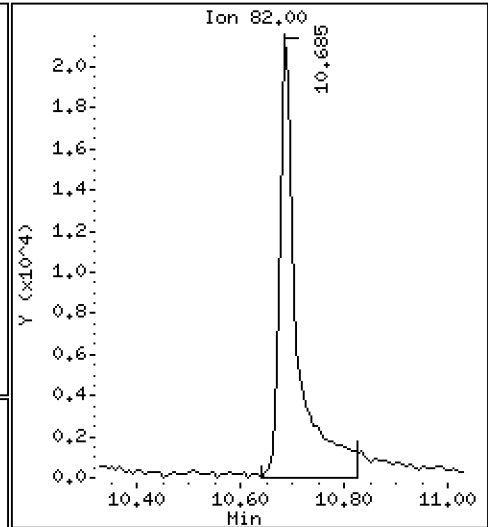
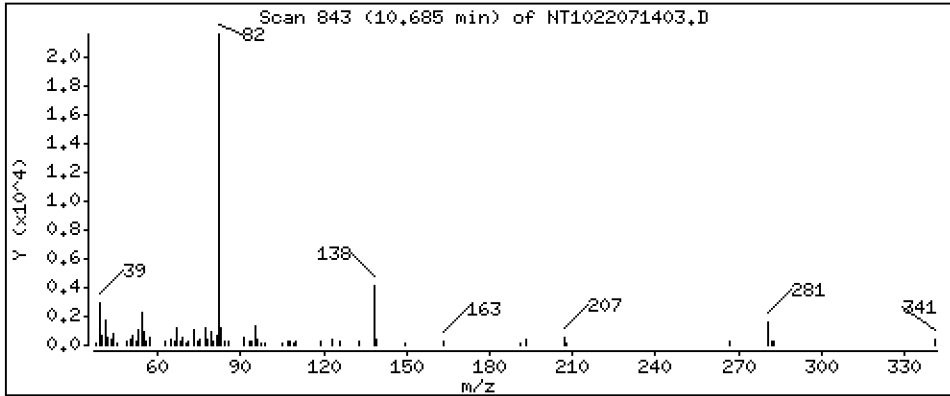
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,5116 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

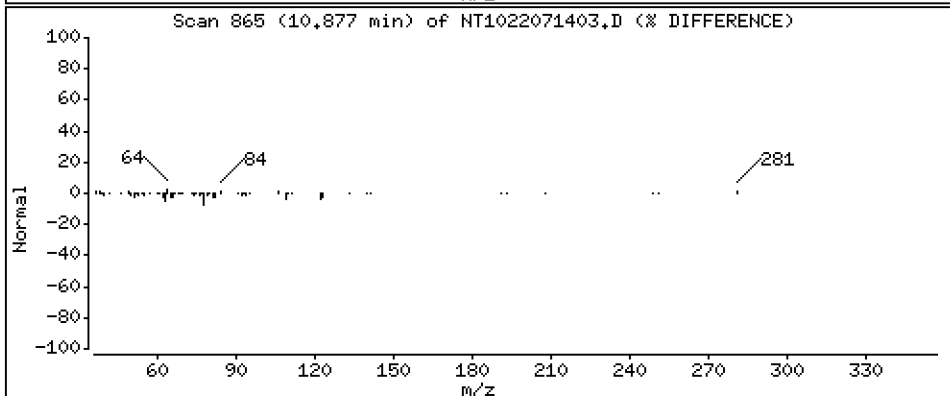
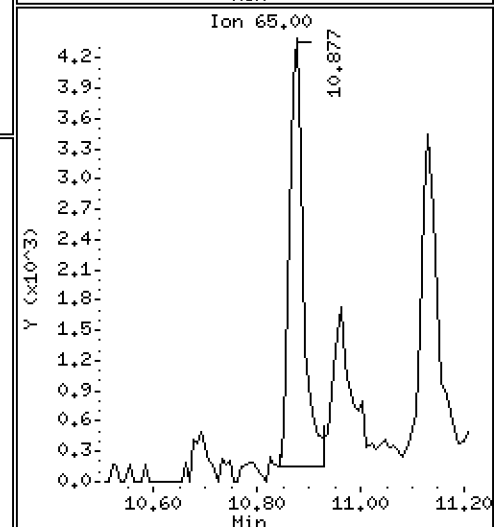
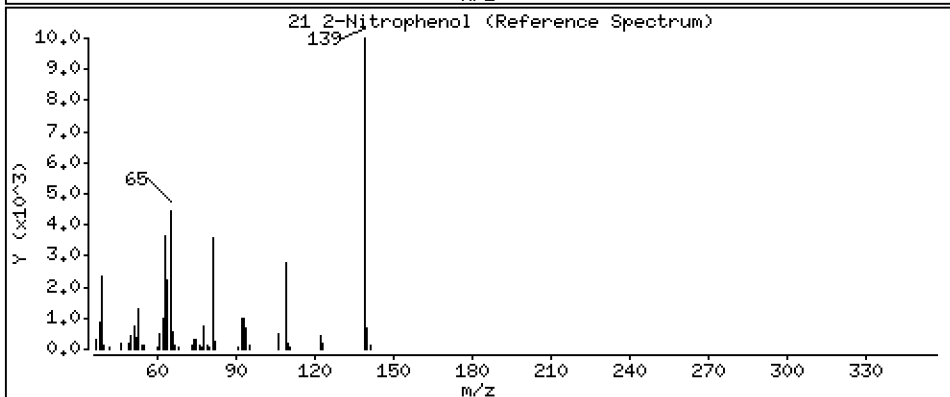
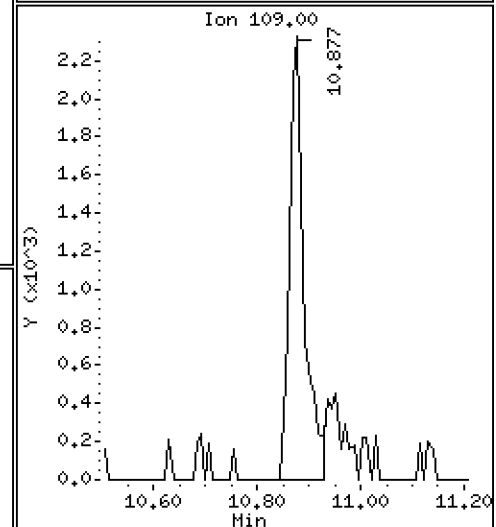
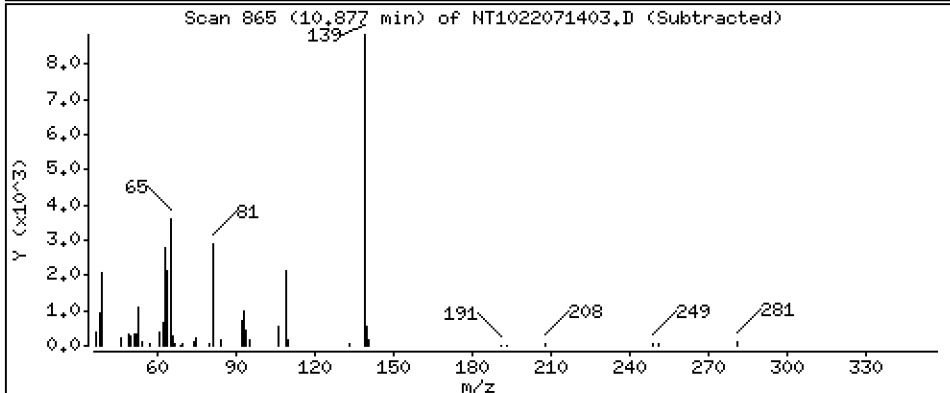
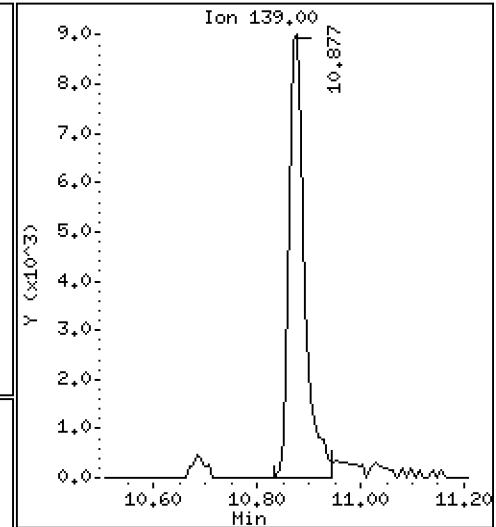
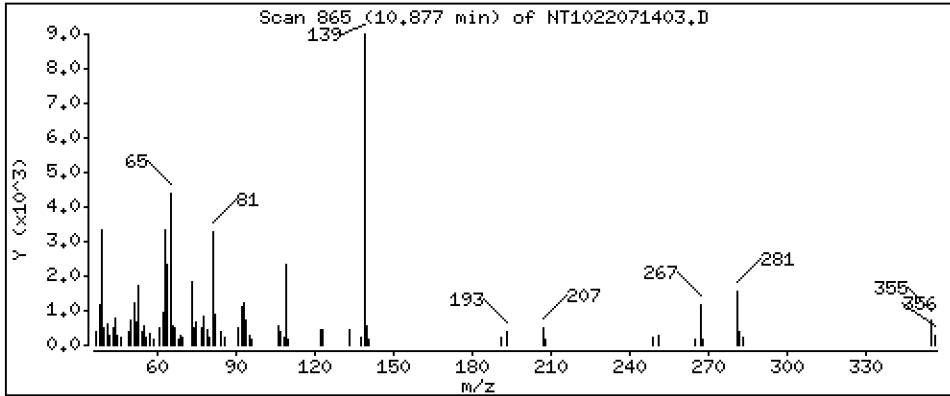
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,4089 ug/mL

21 2-Nitrophenol



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

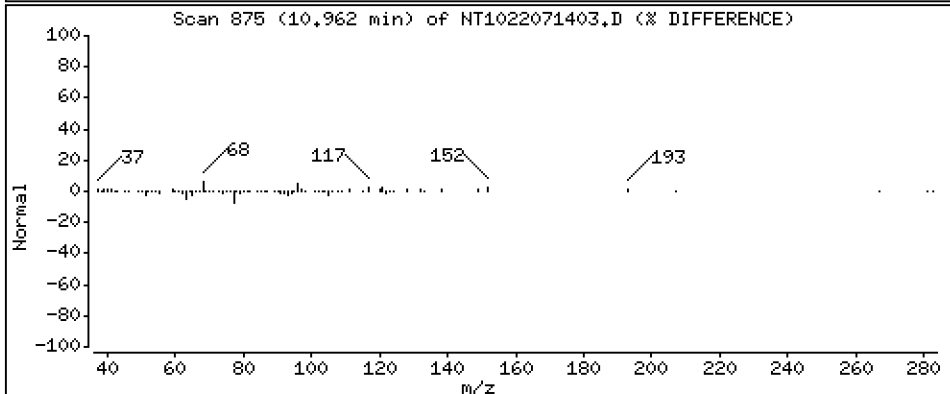
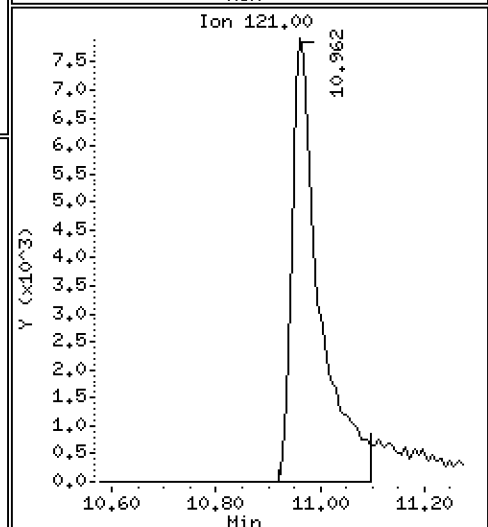
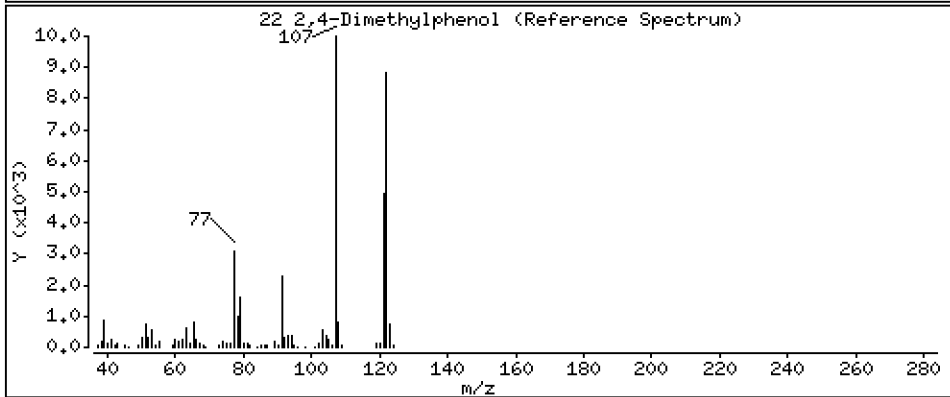
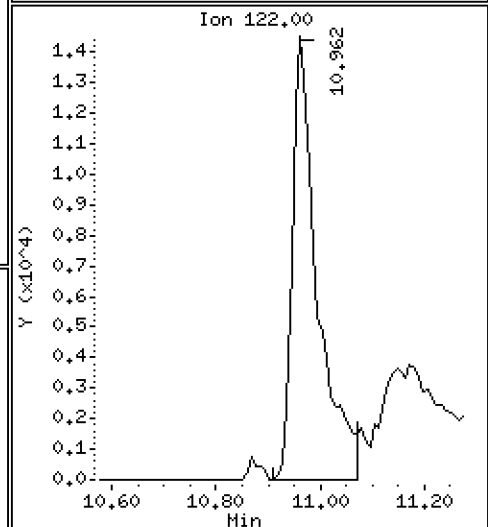
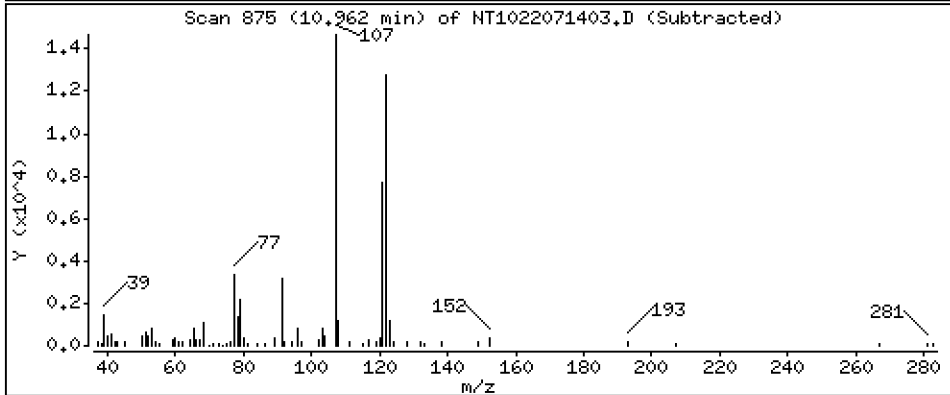
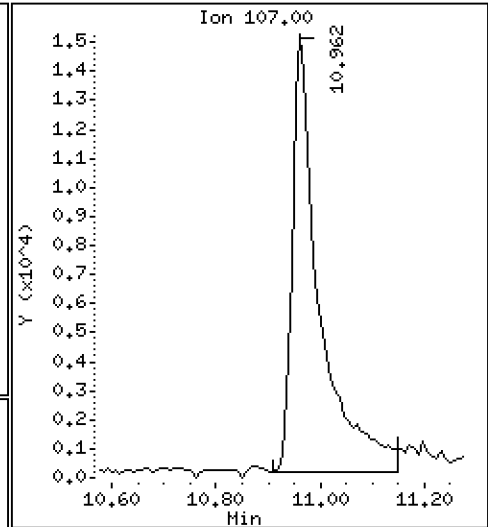
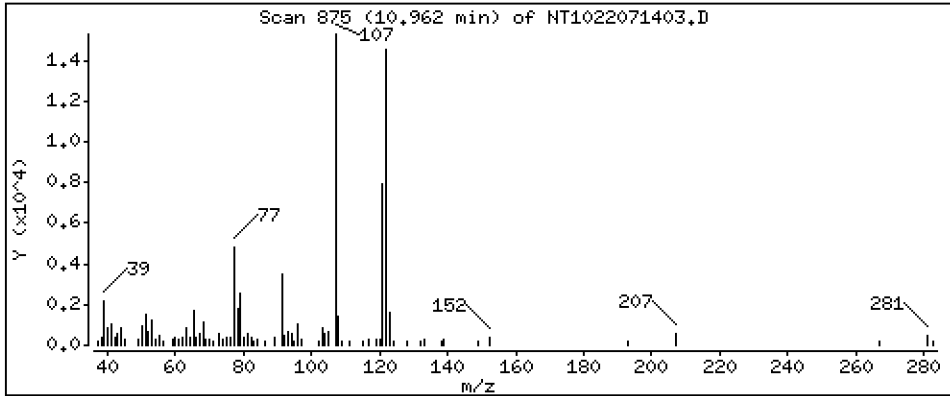
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.9557 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

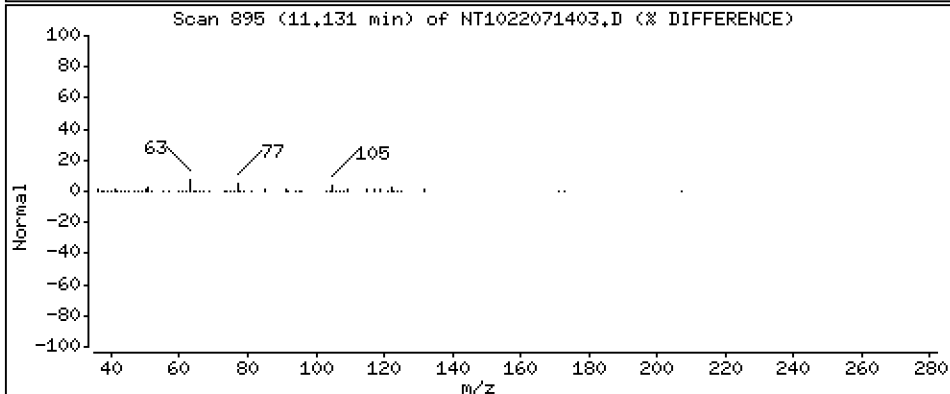
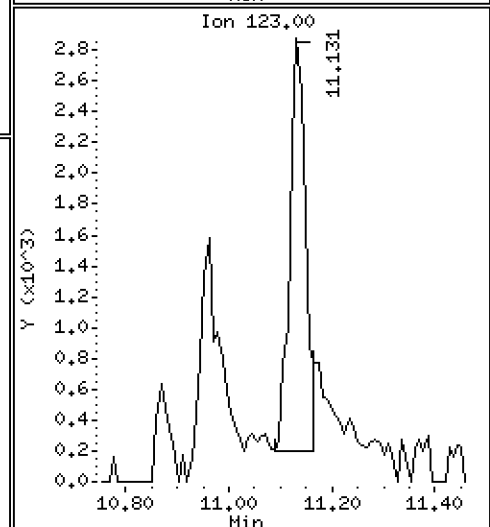
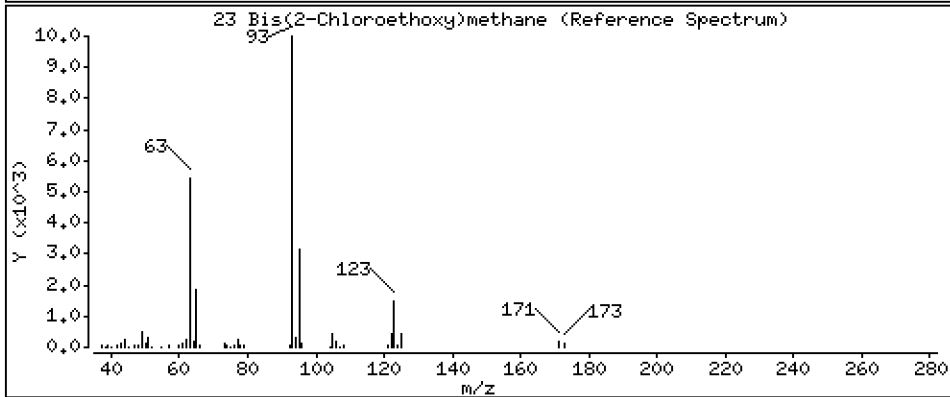
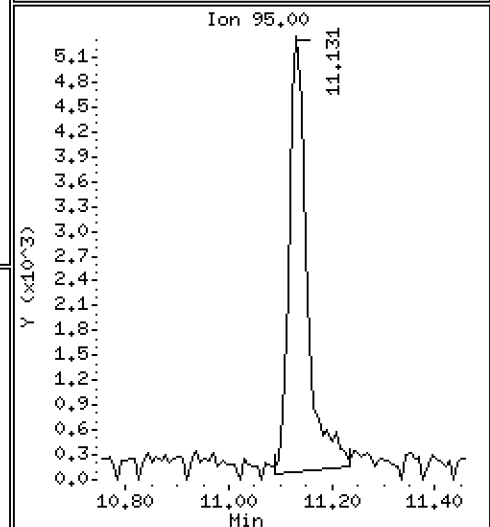
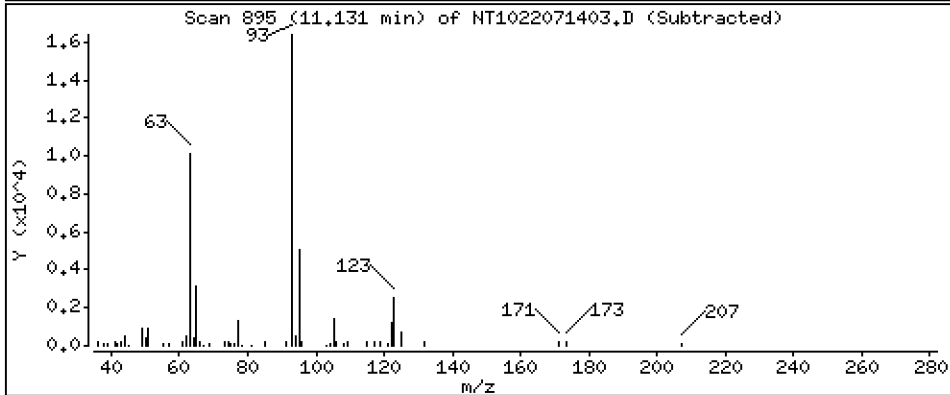
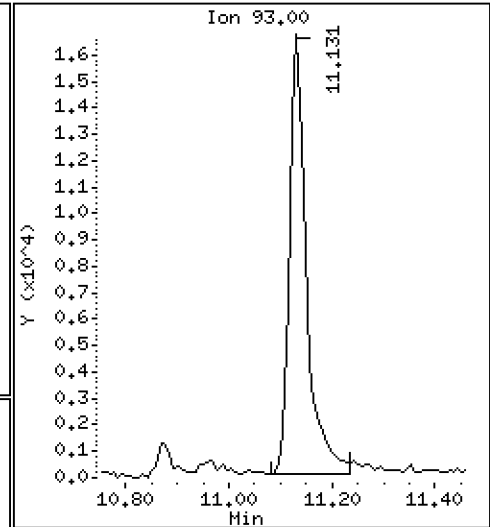
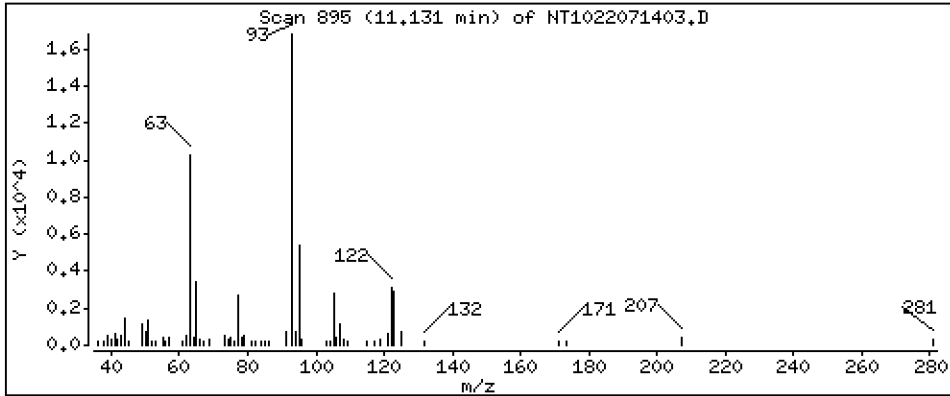
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,5739 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

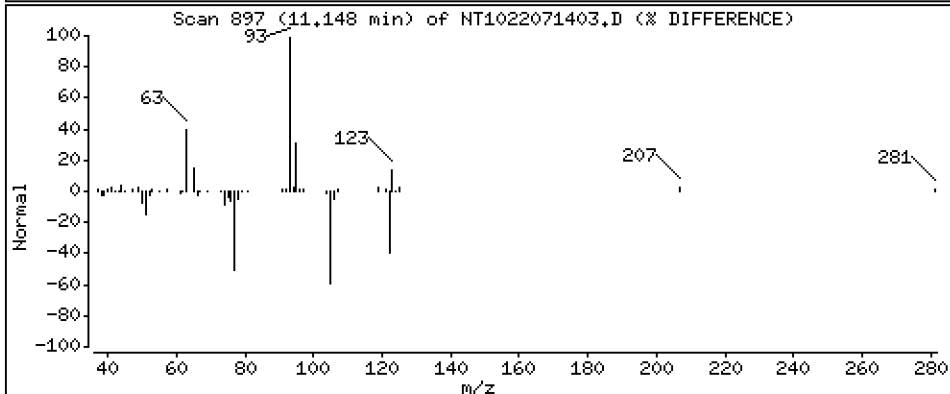
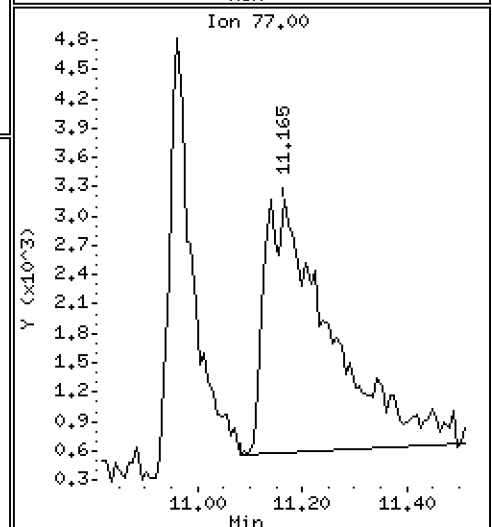
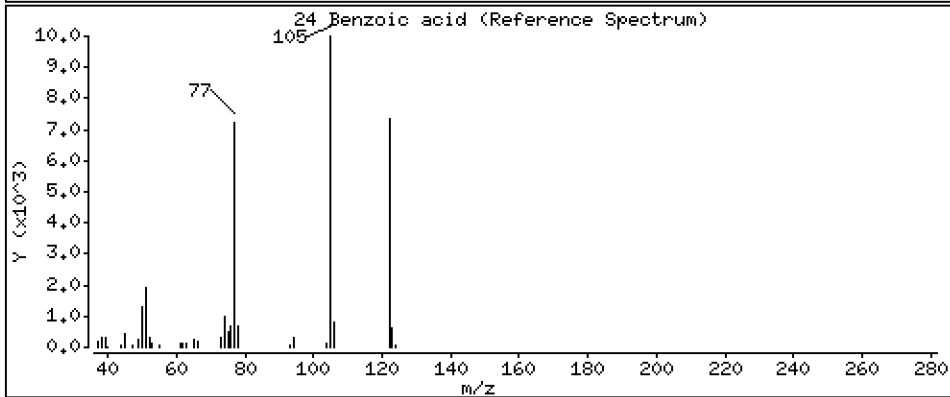
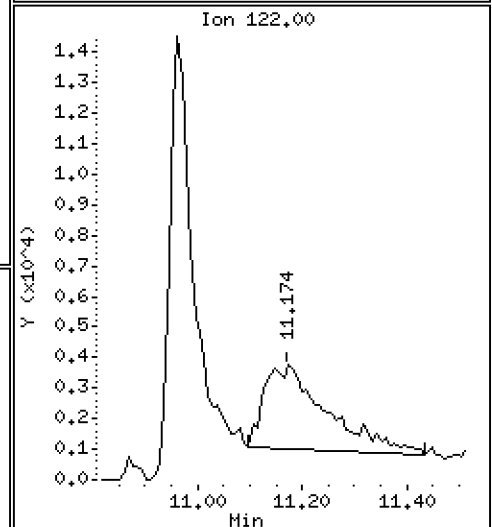
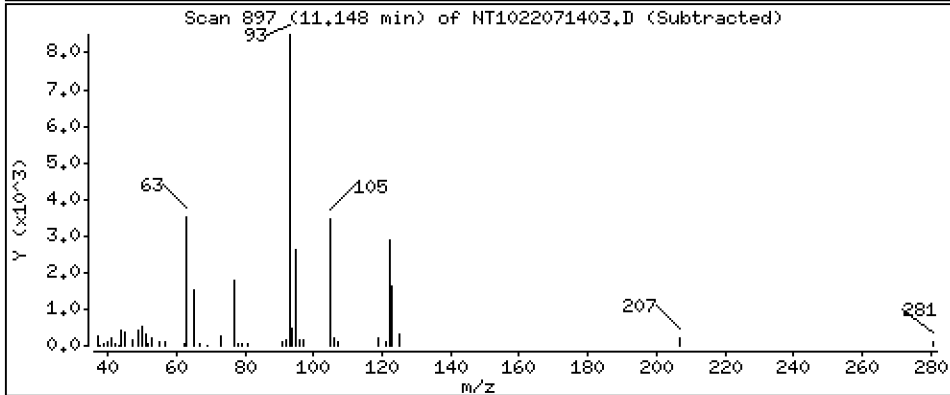
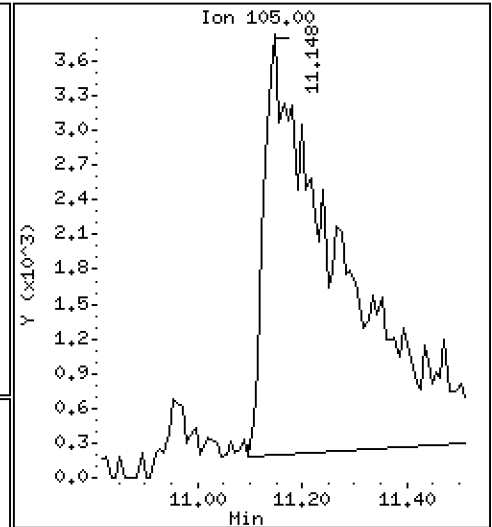
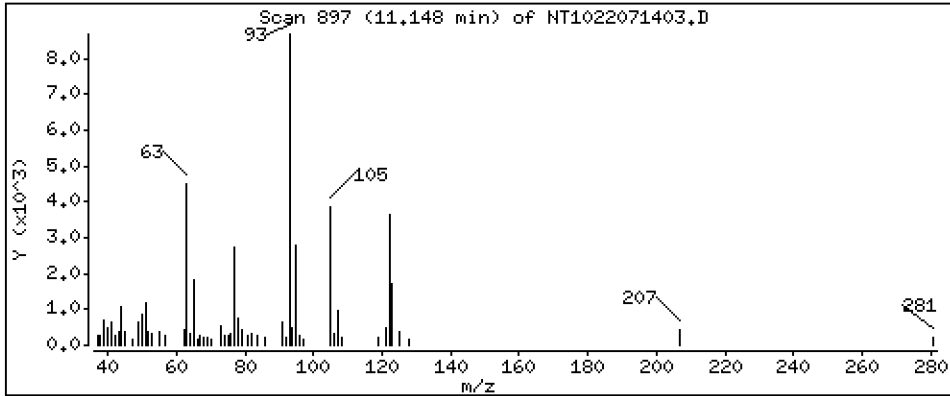
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 1.282 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

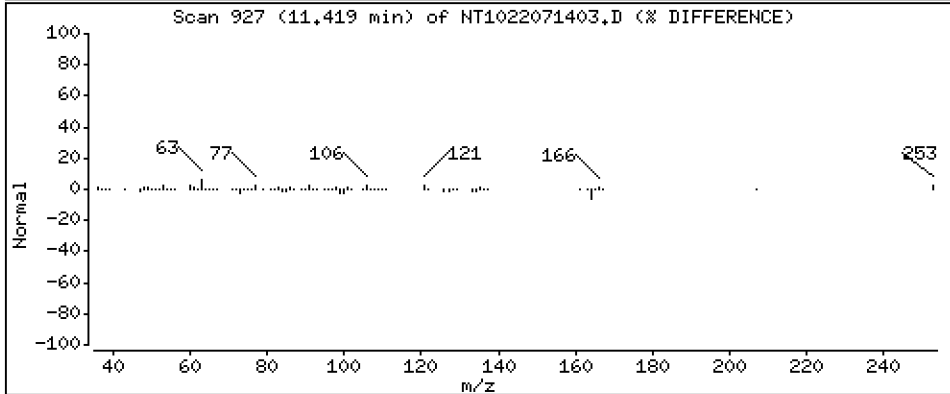
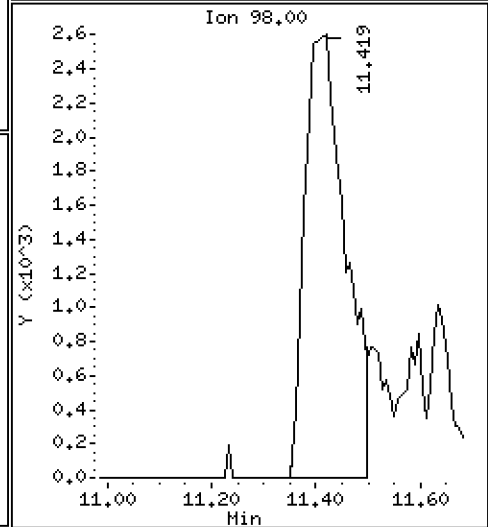
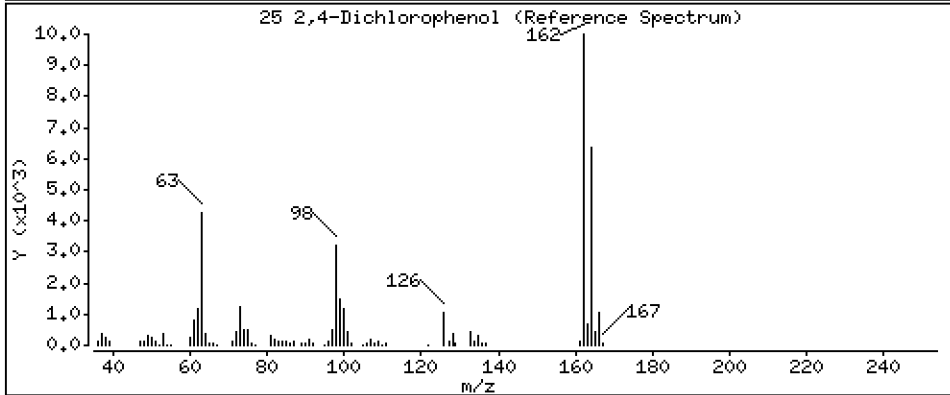
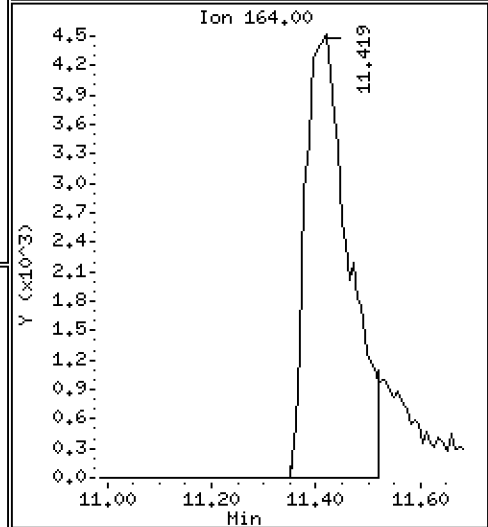
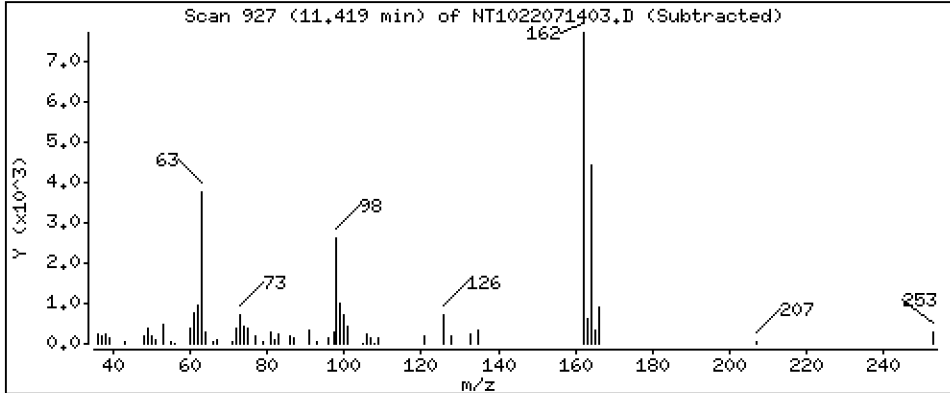
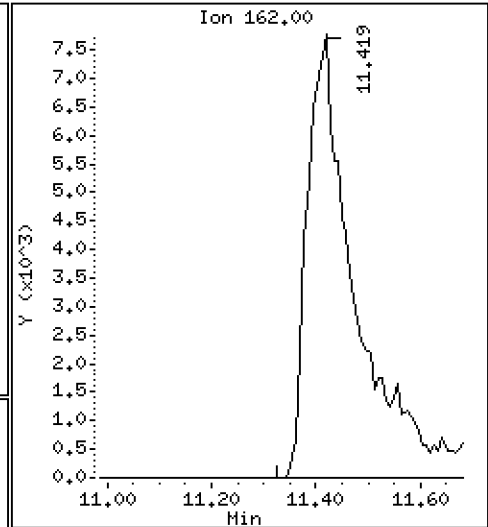
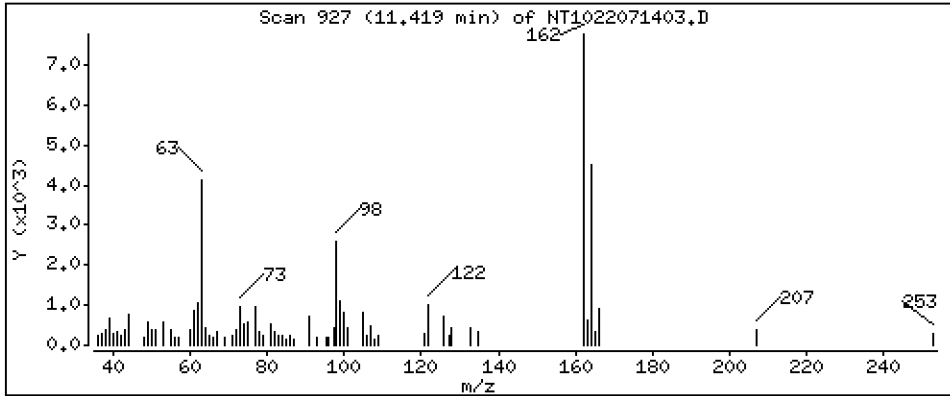
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,8348 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

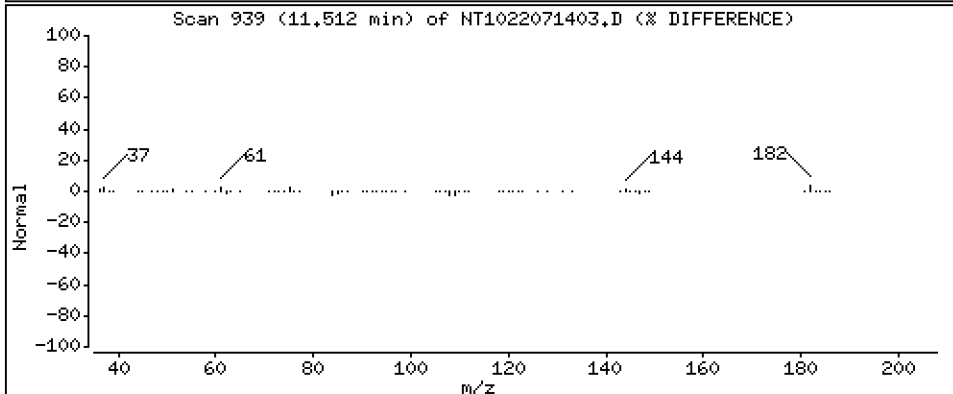
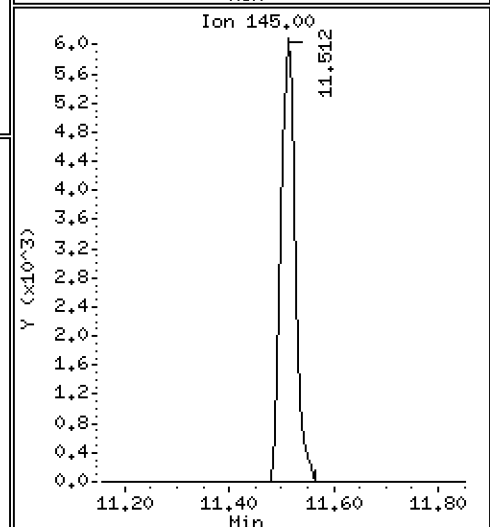
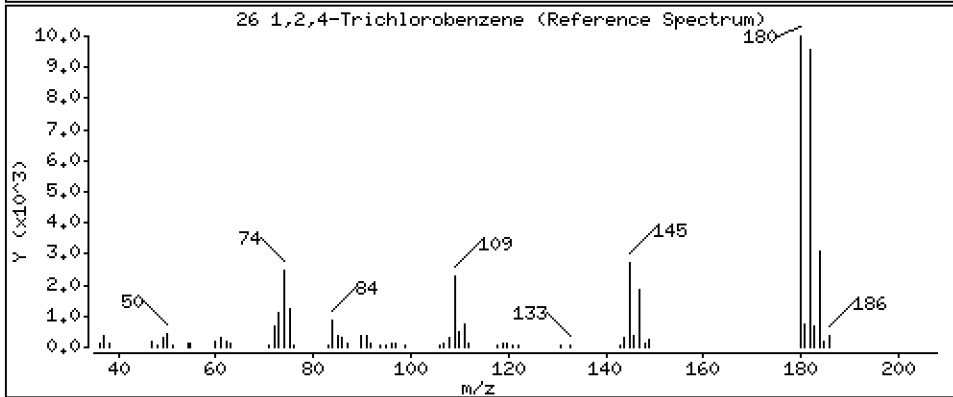
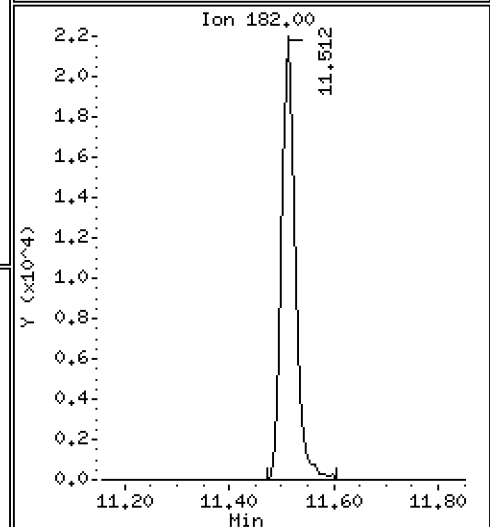
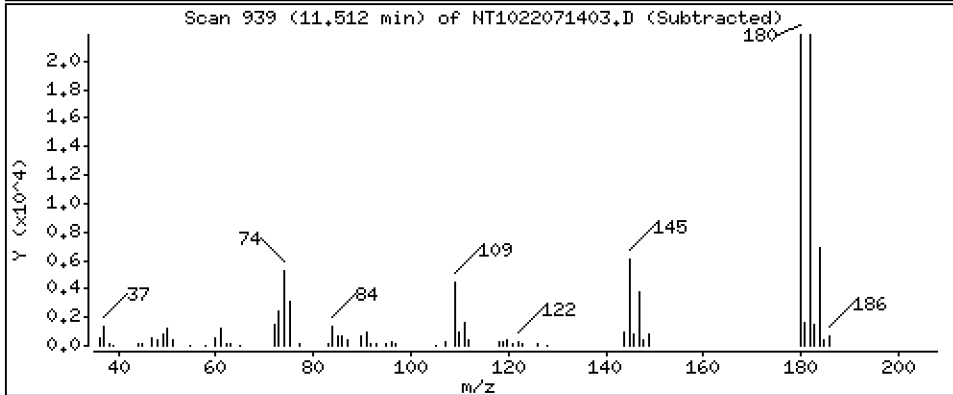
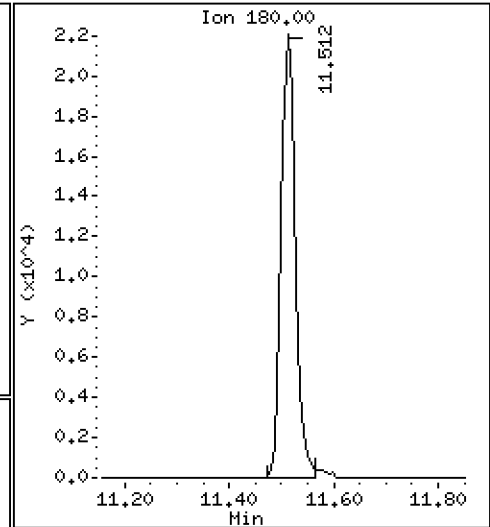
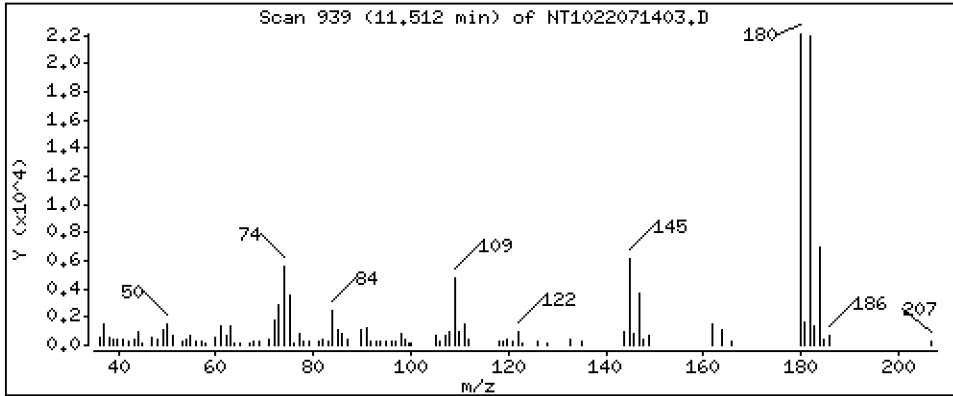
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,6352 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

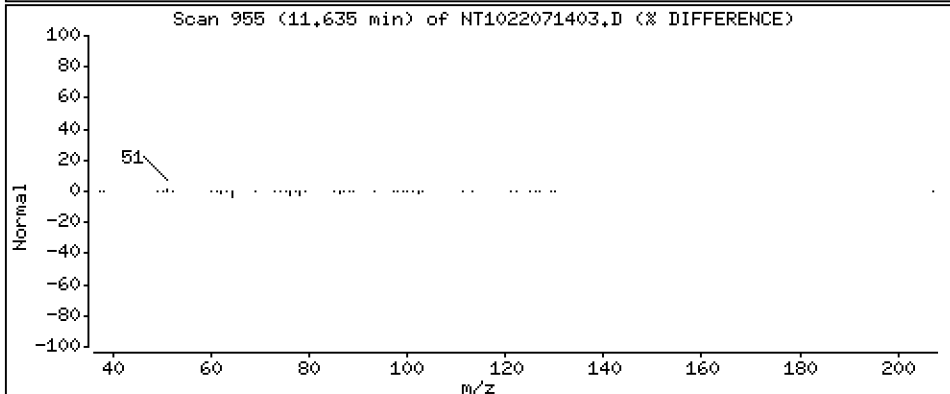
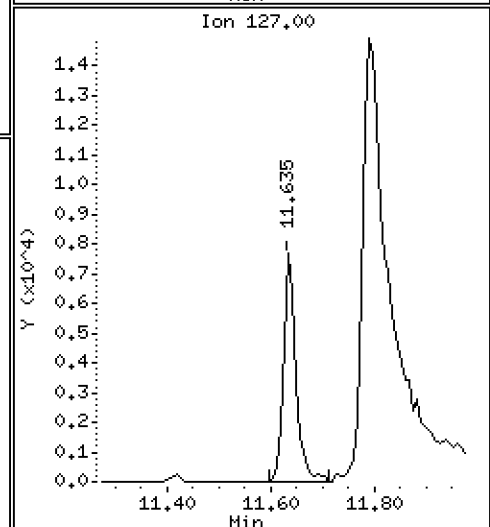
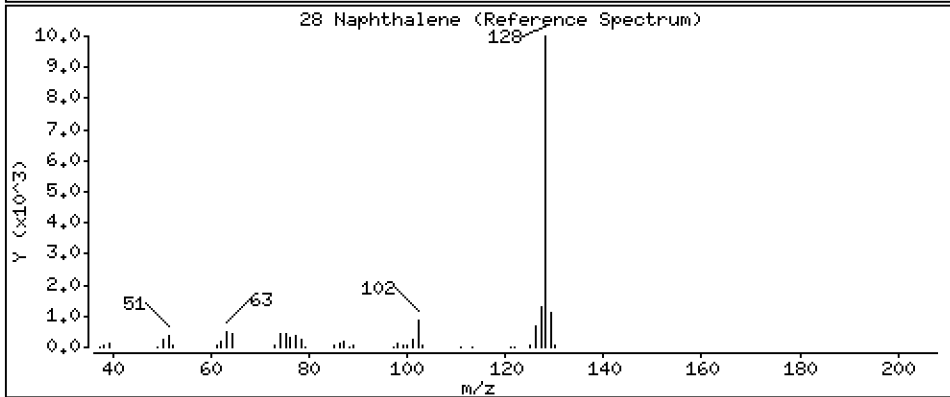
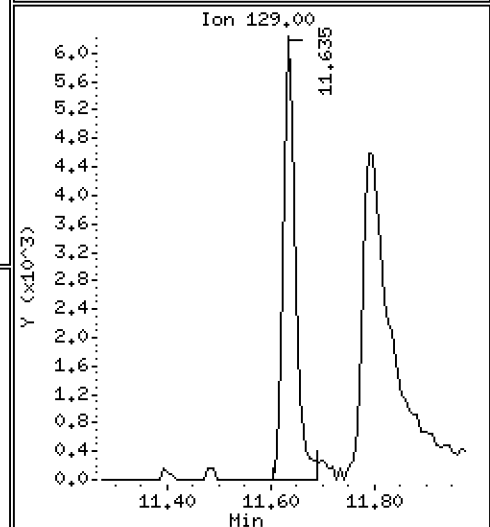
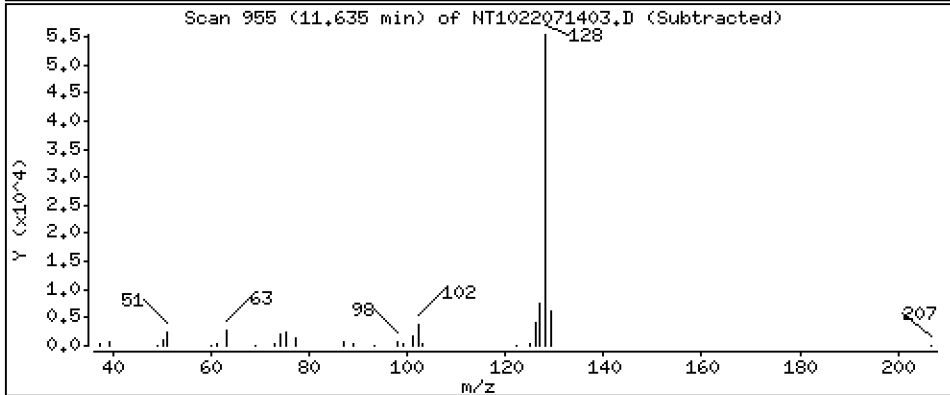
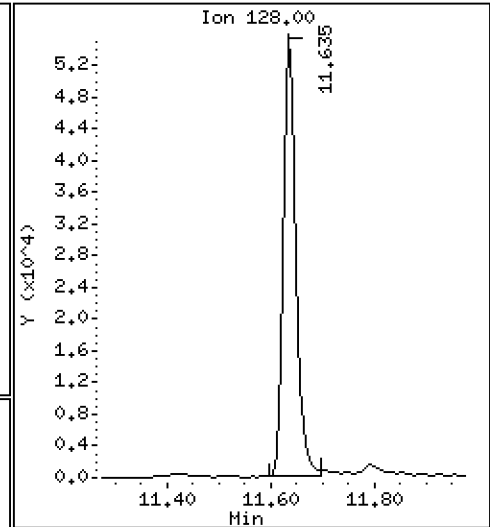
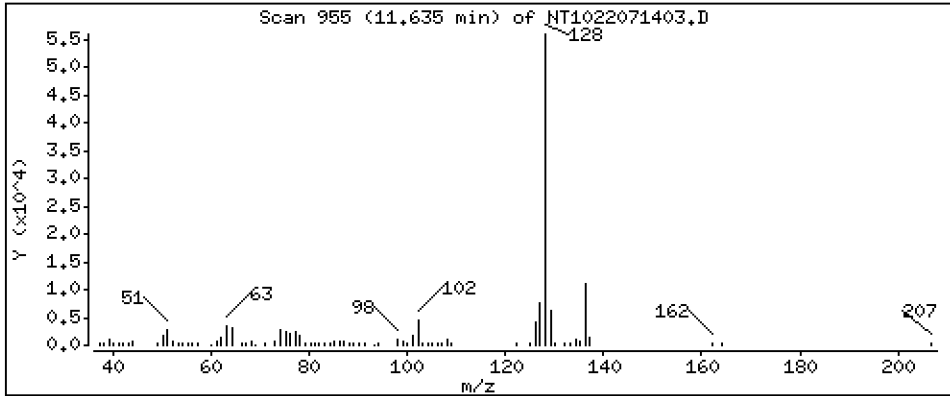
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,5309 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

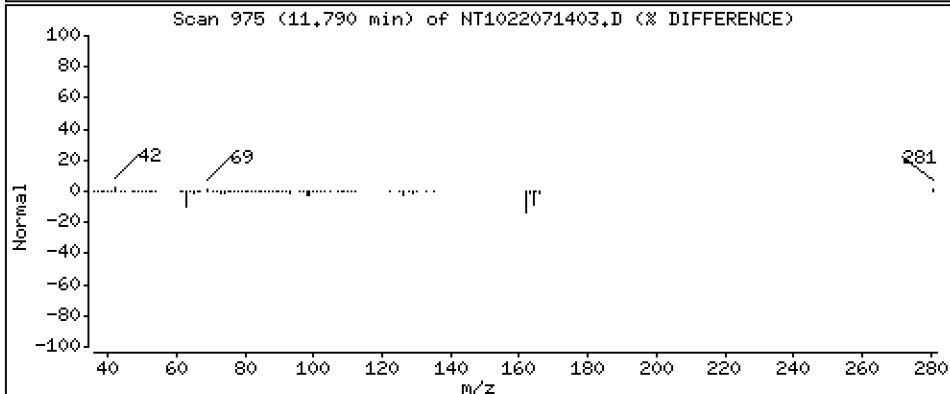
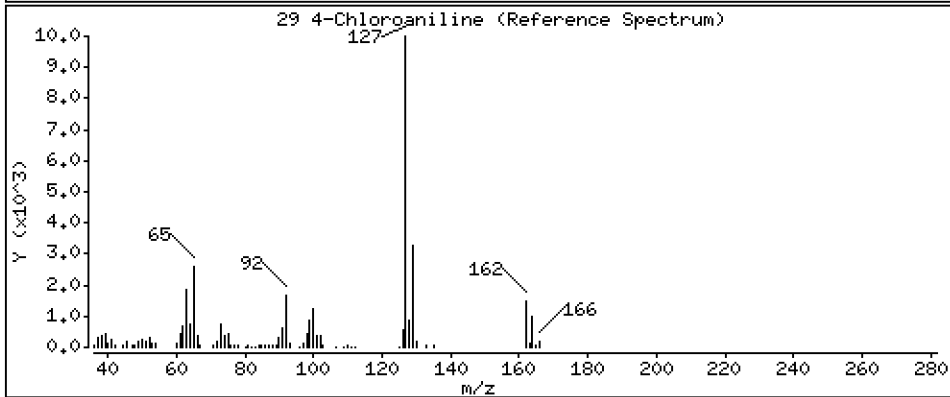
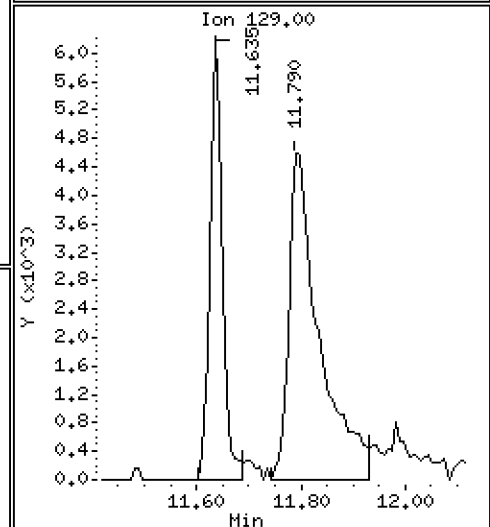
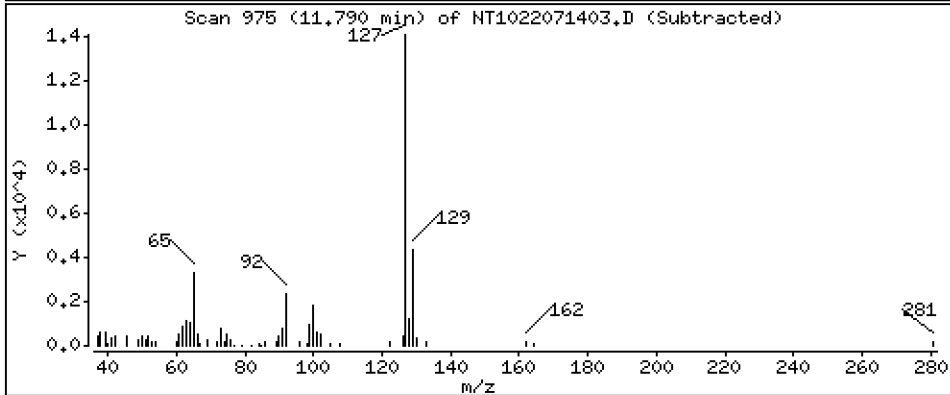
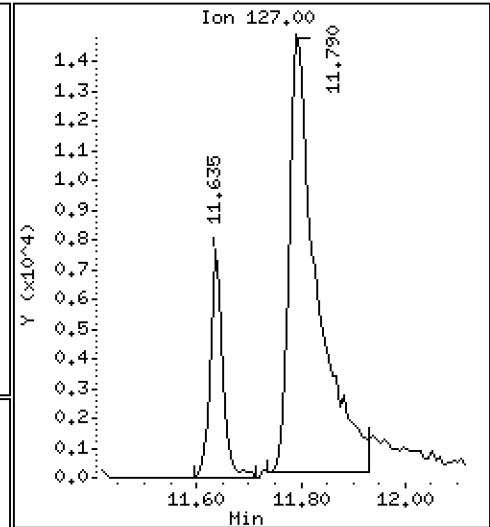
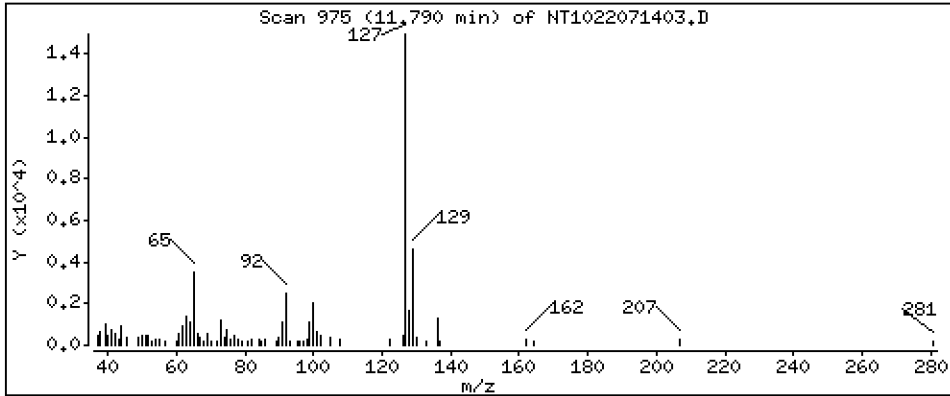
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

29 4-Chloroaniline

Concentration: 0.7318 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

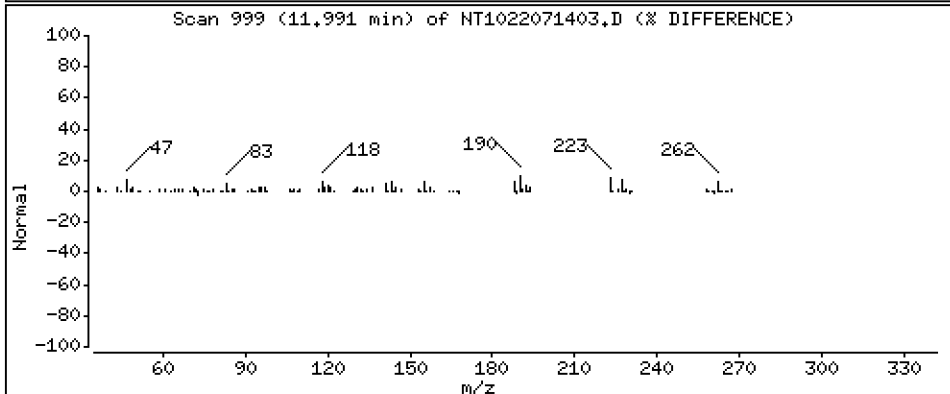
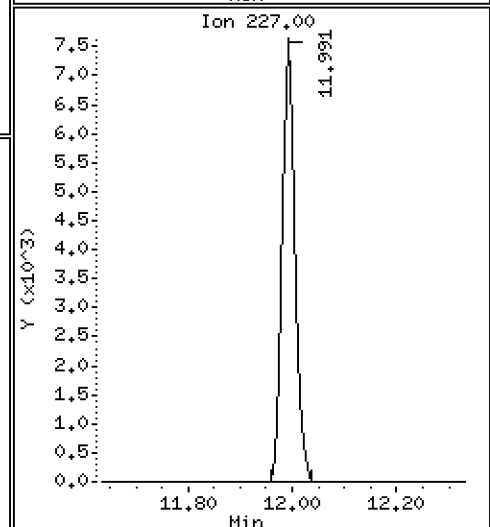
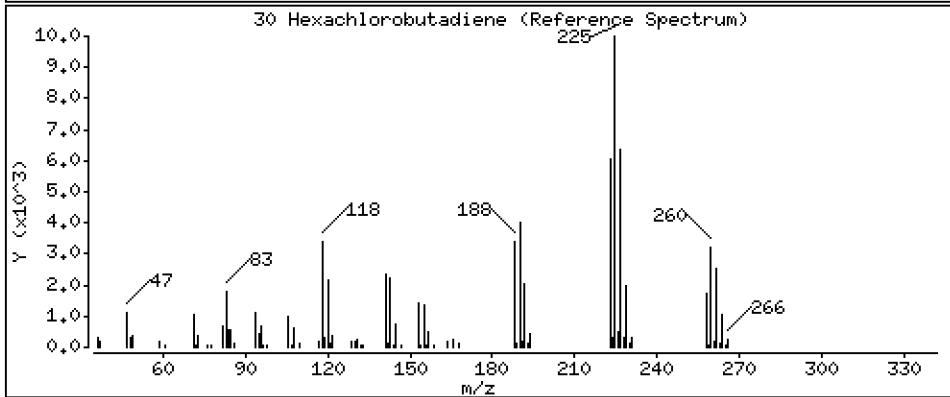
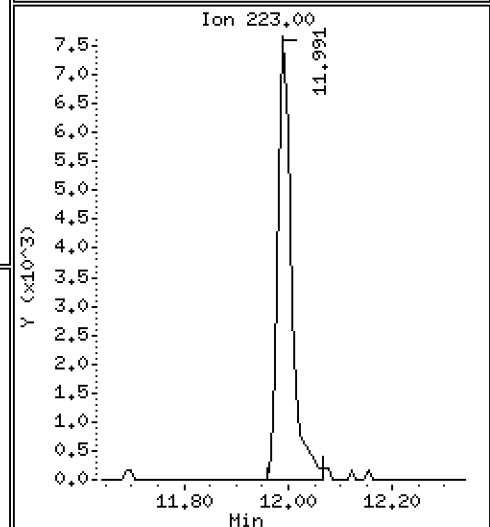
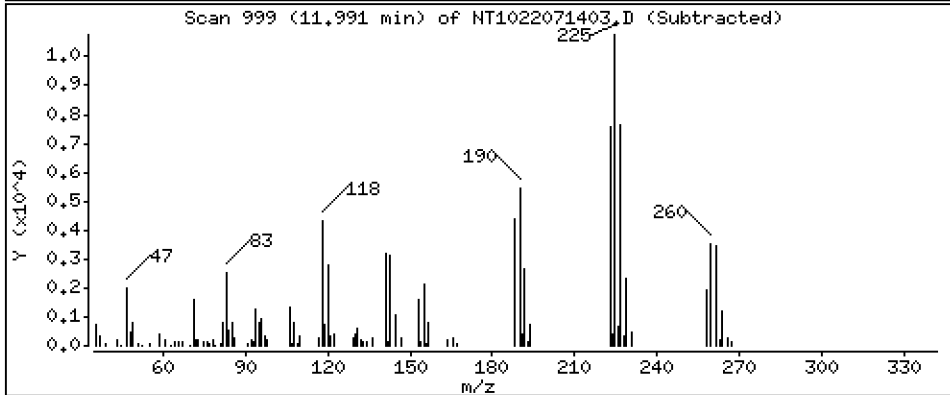
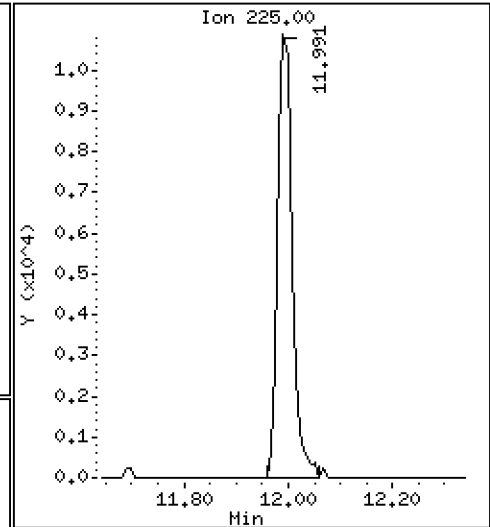
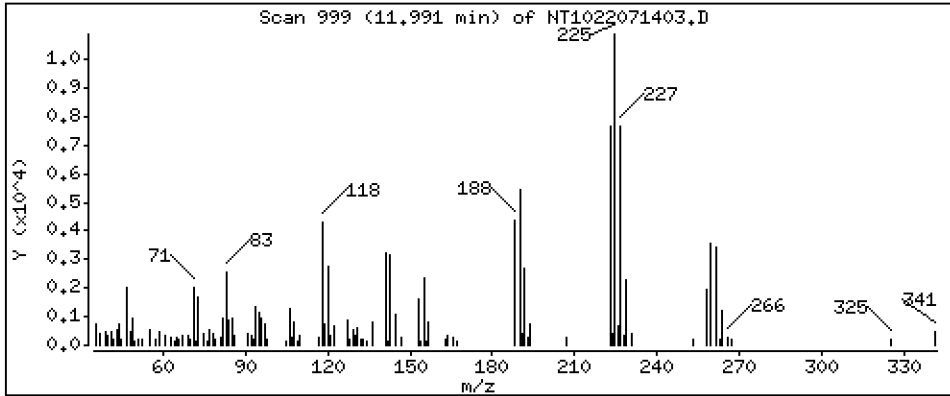
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,6722 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

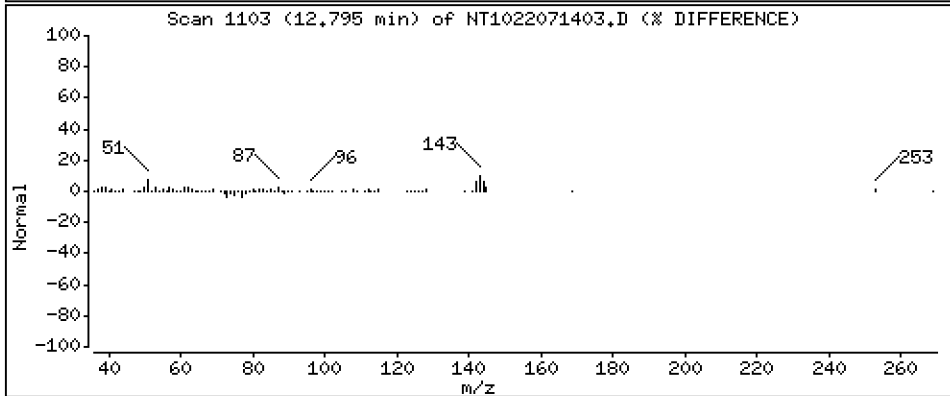
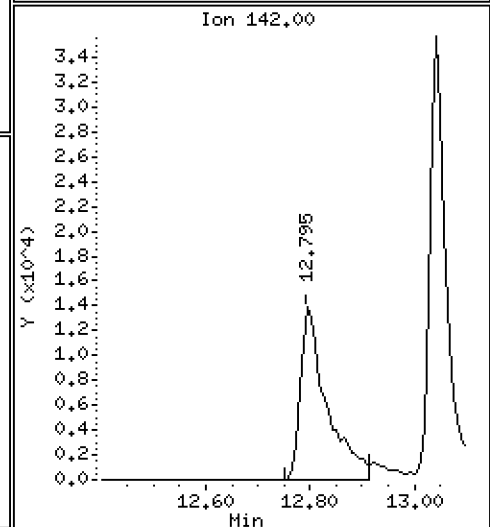
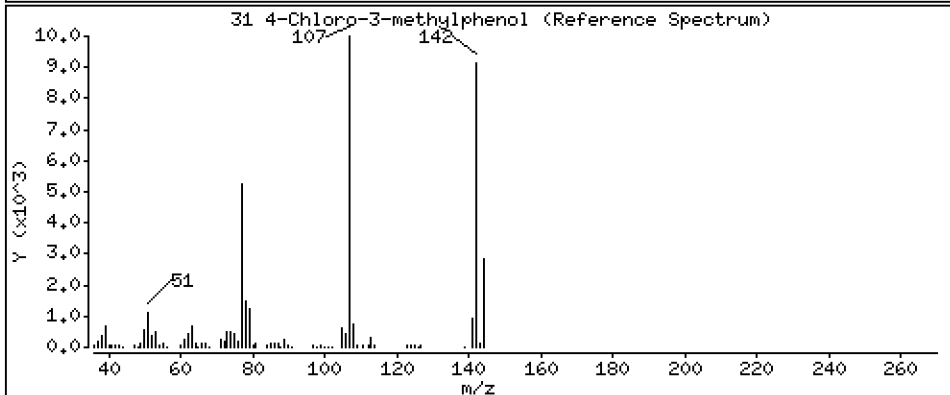
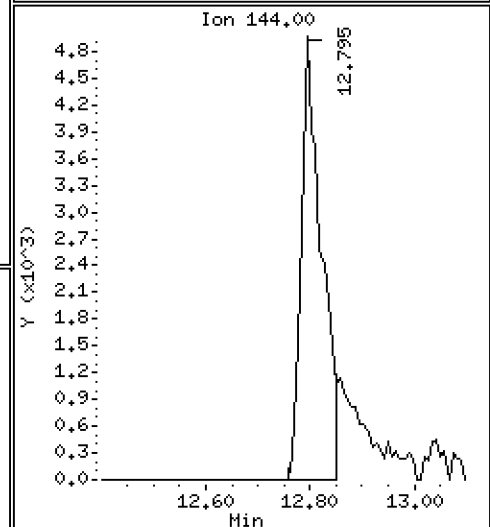
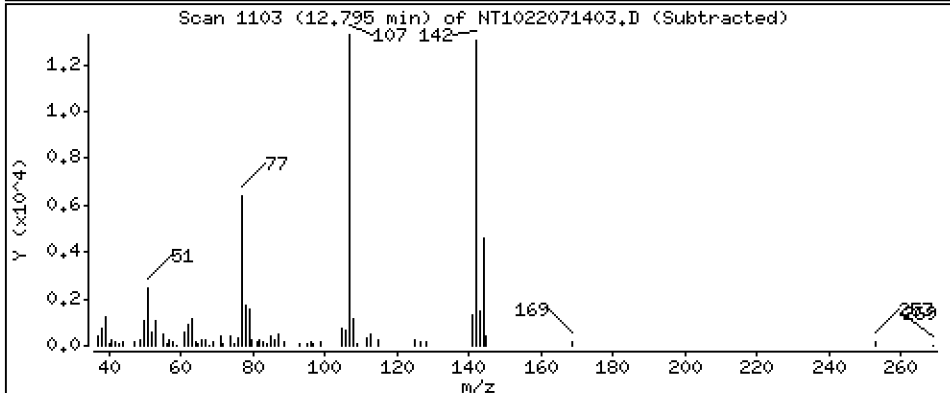
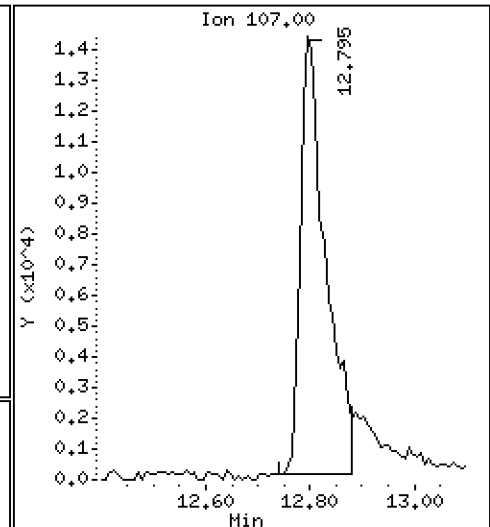
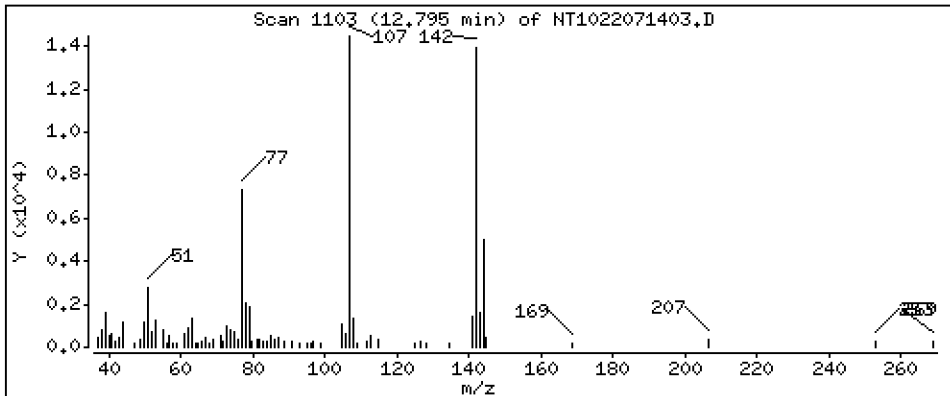
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,7084 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

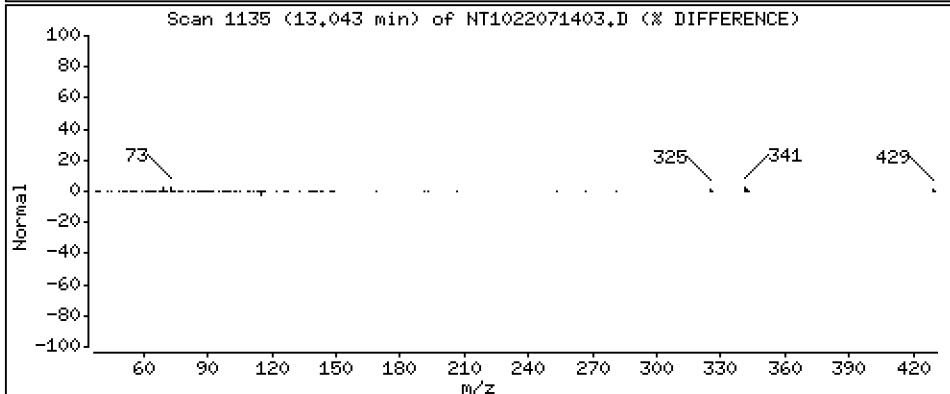
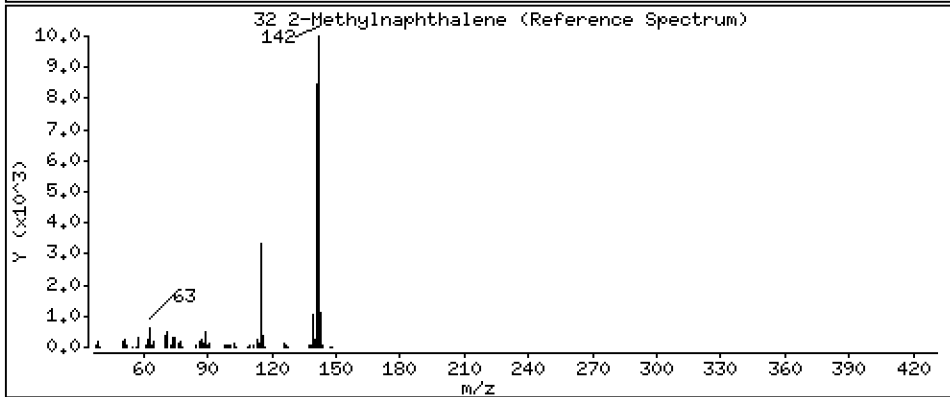
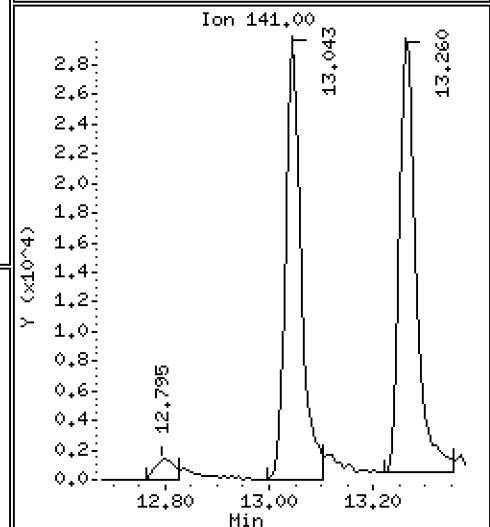
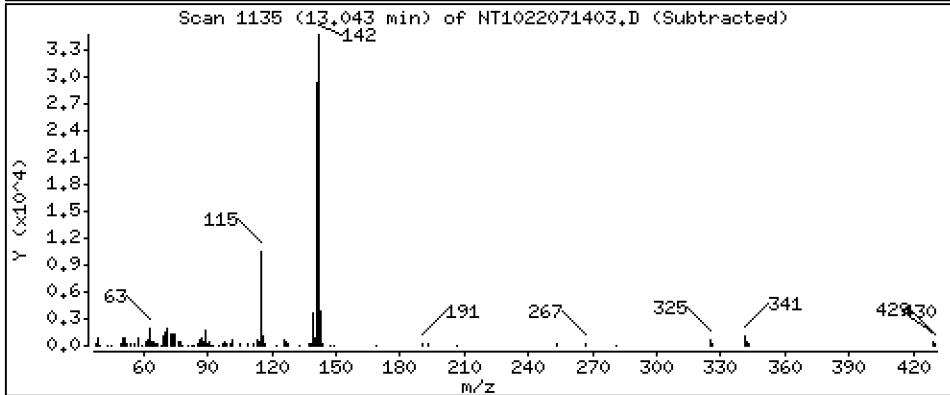
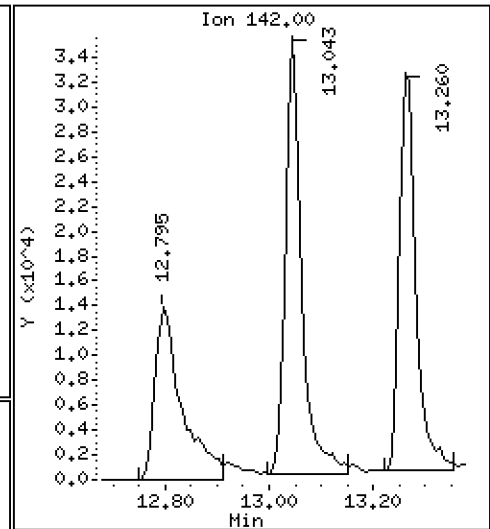
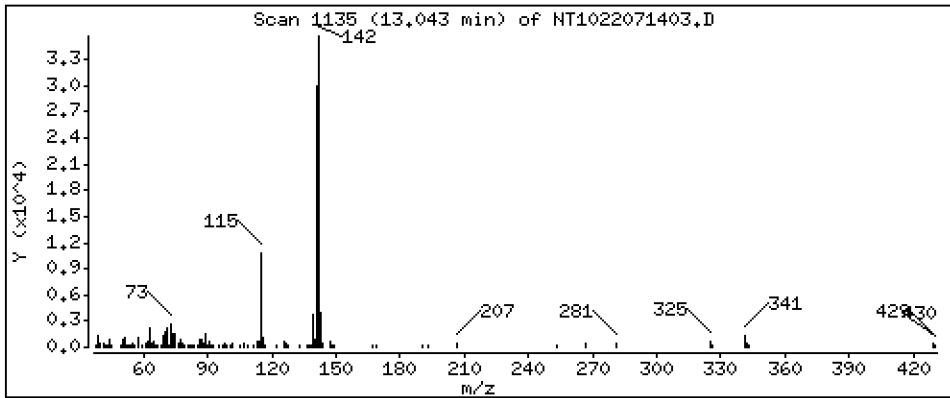
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,4319 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

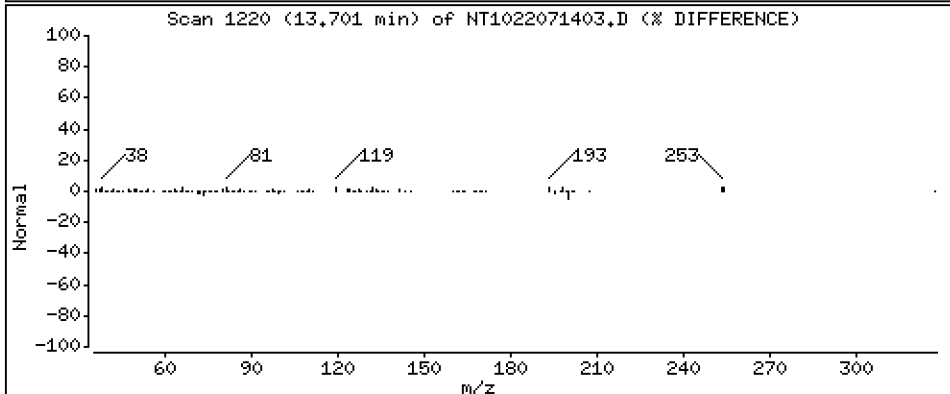
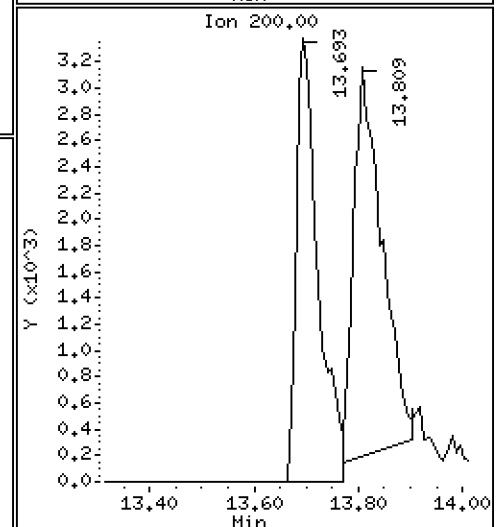
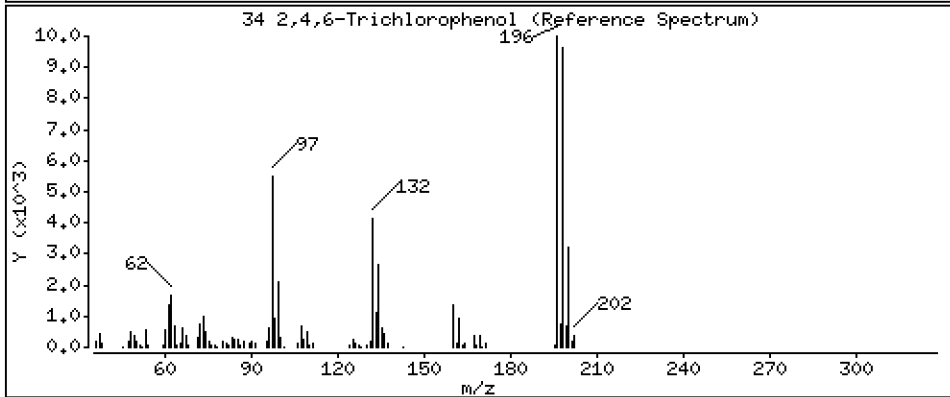
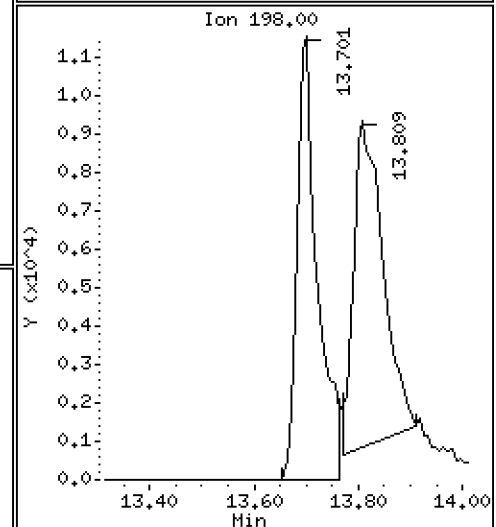
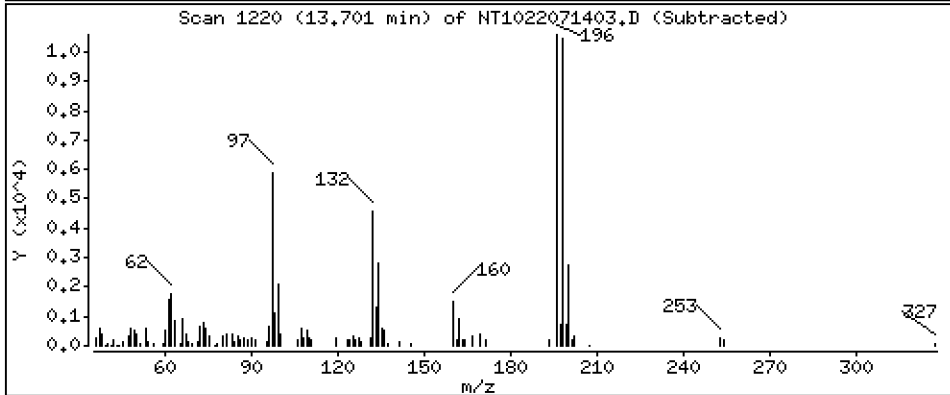
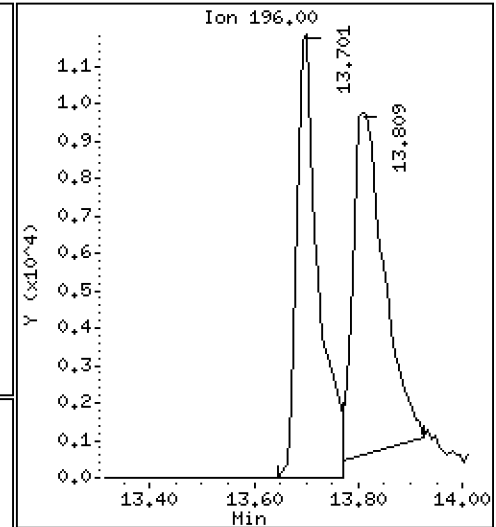
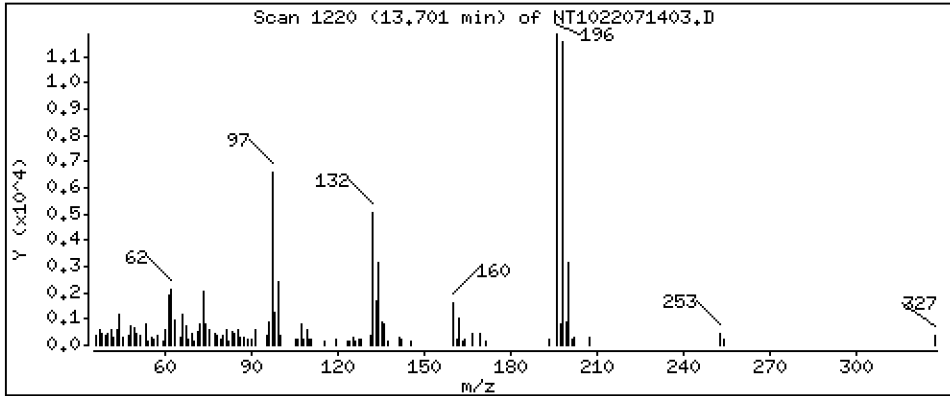
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,8414 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

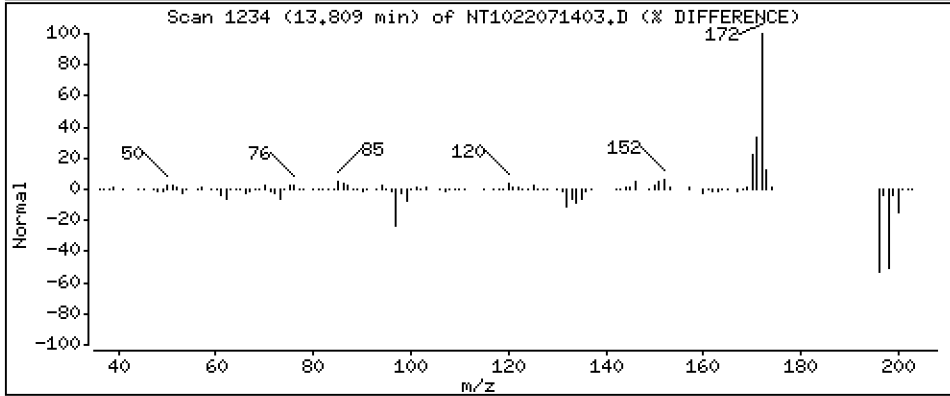
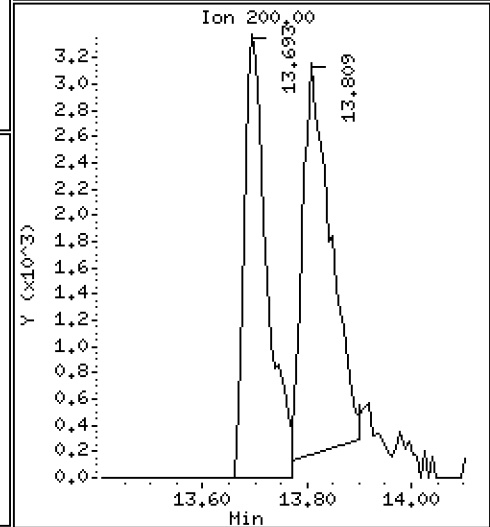
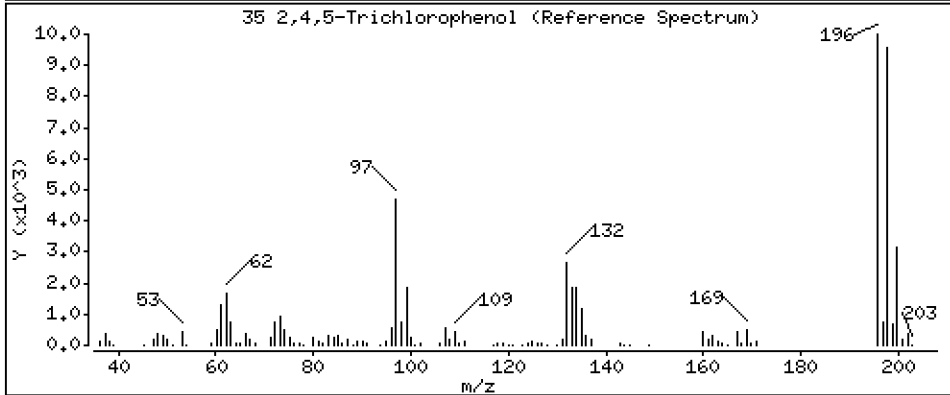
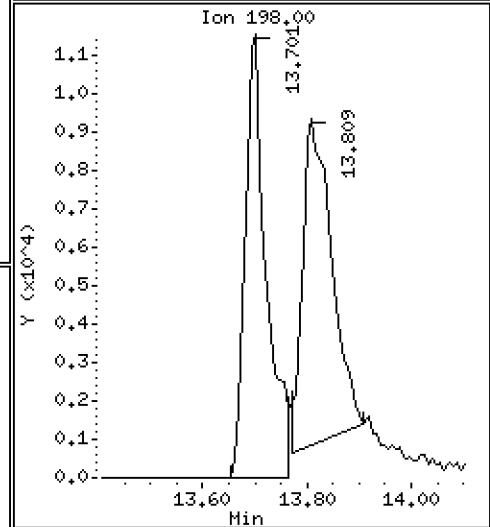
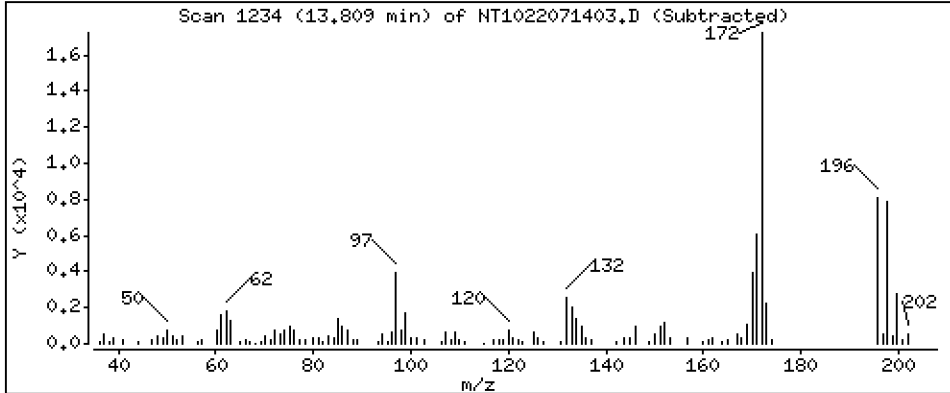
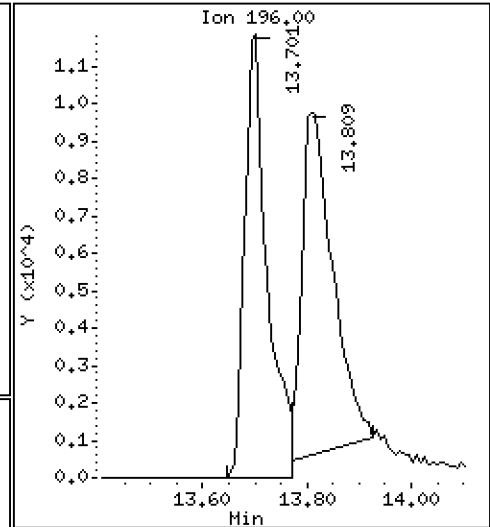
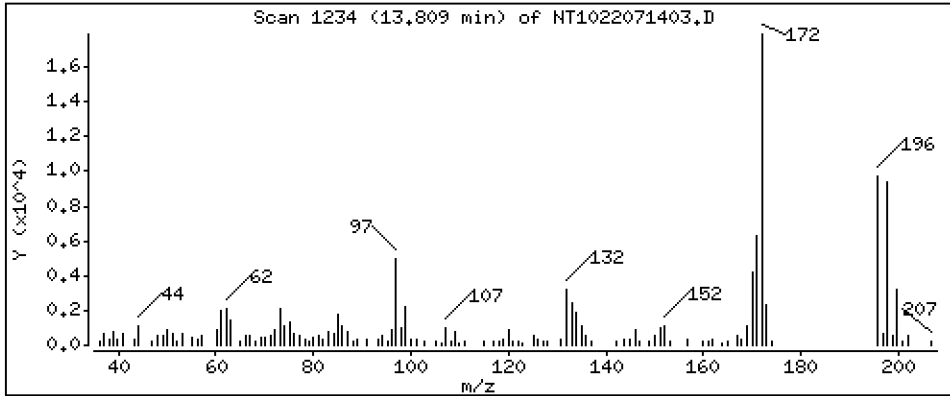
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

35 2,4,5-Trichlorophenol

Concentration: 0.7449 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

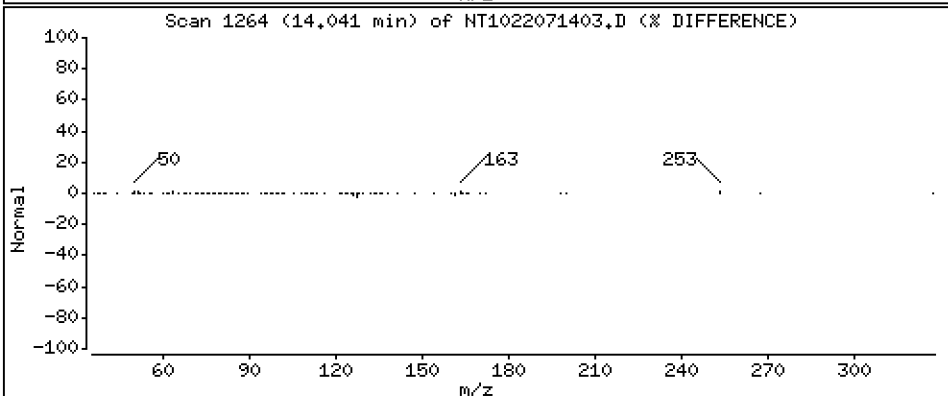
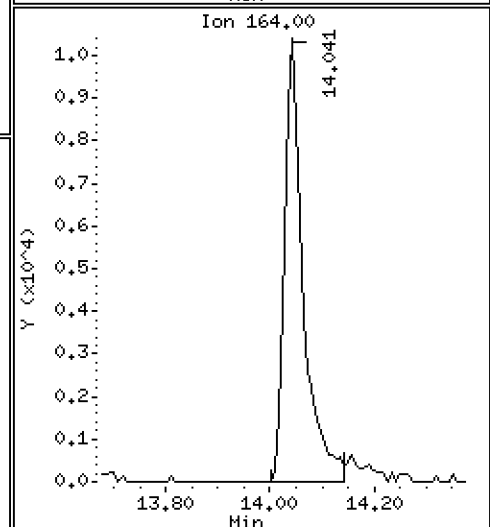
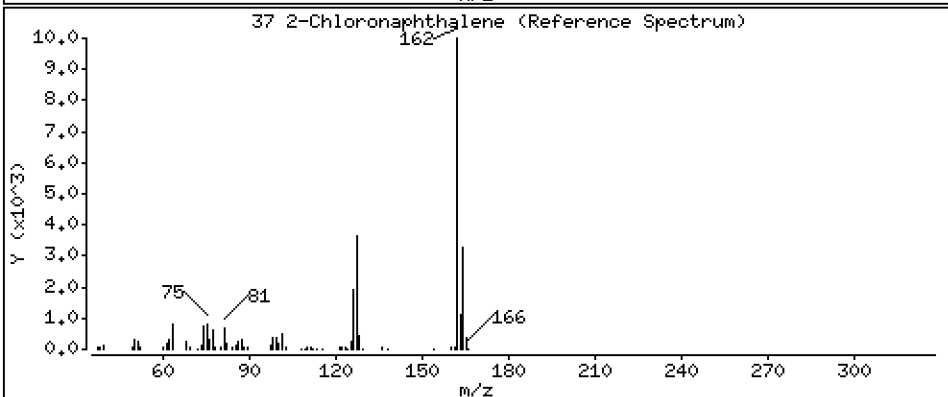
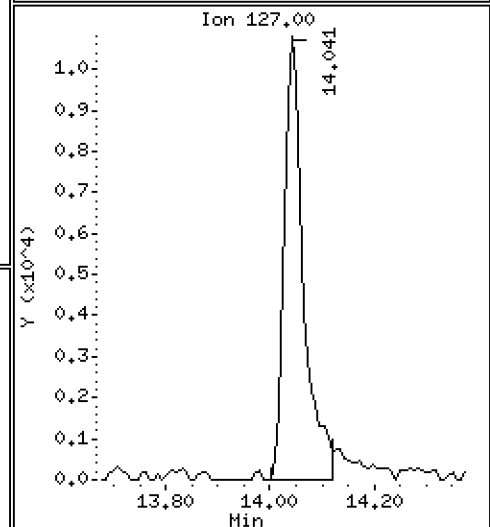
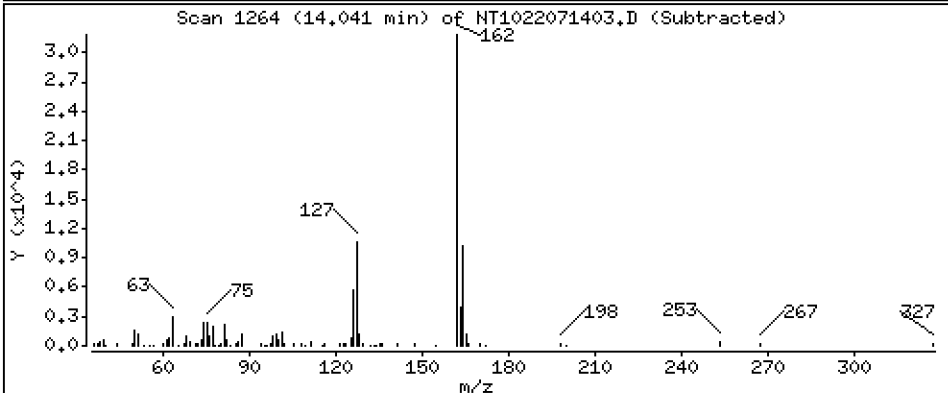
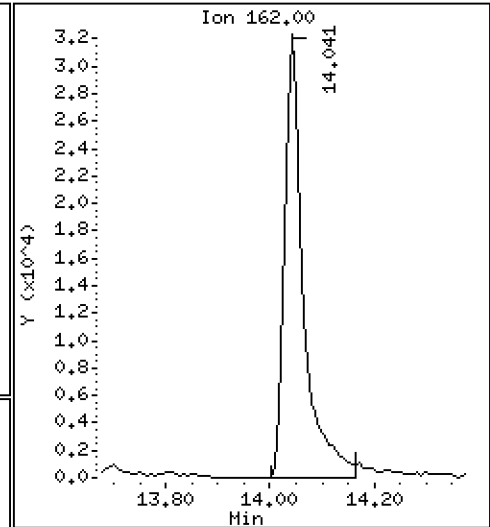
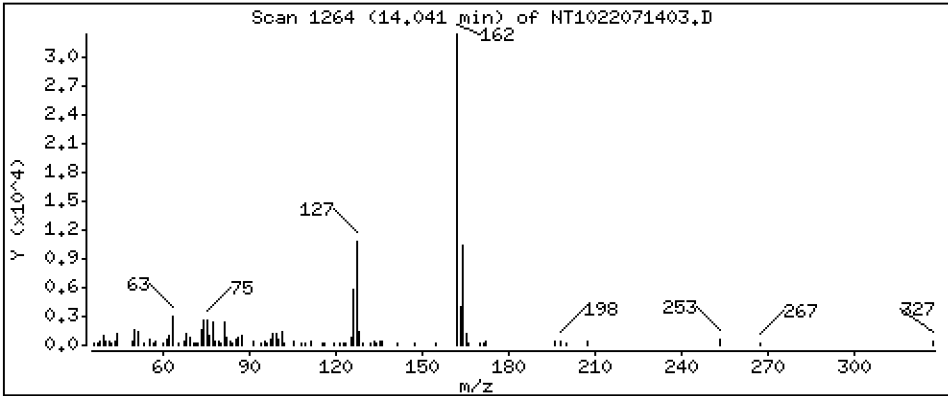
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,5400 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

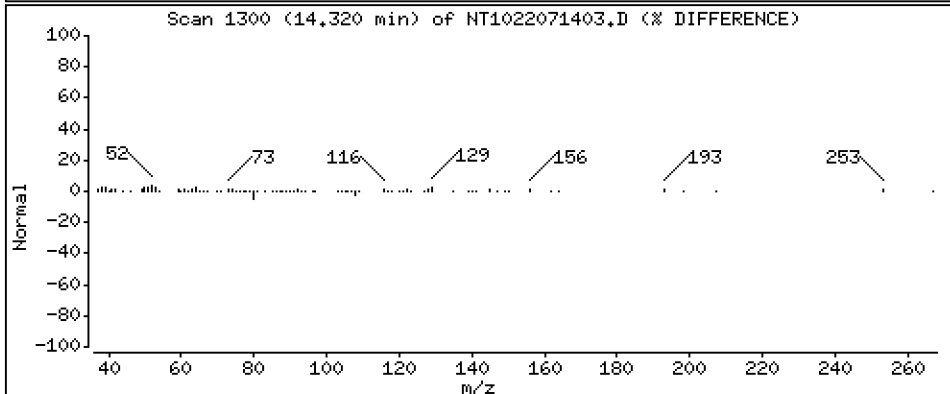
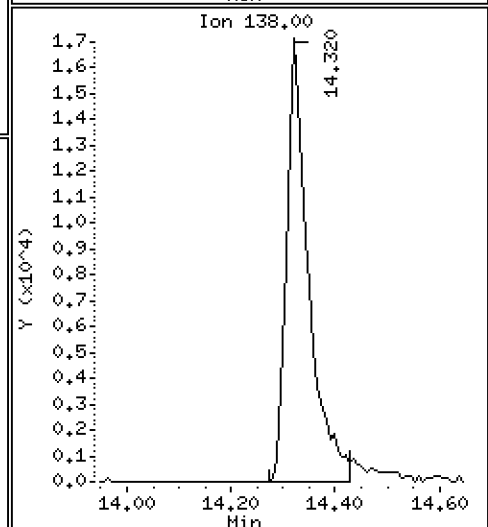
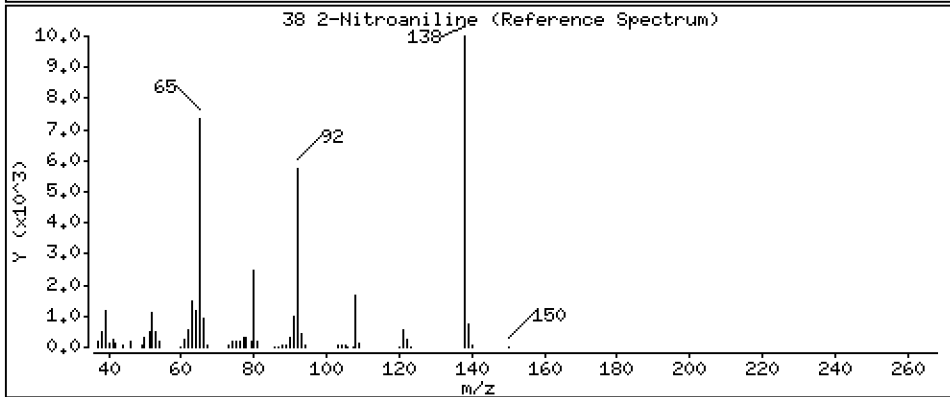
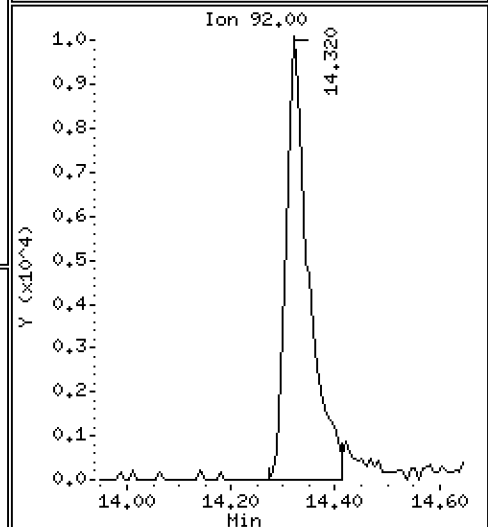
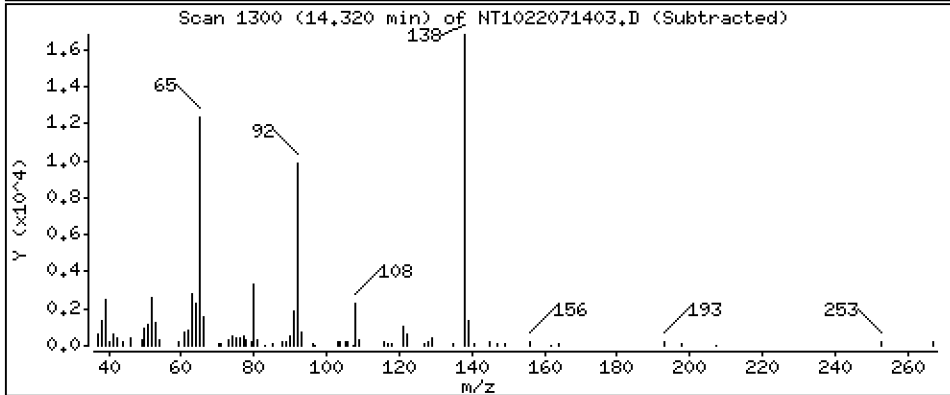
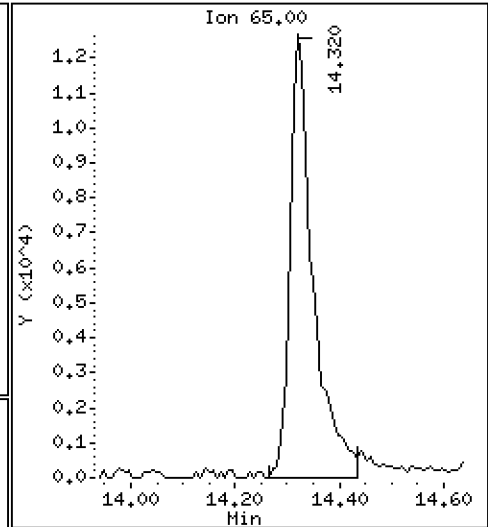
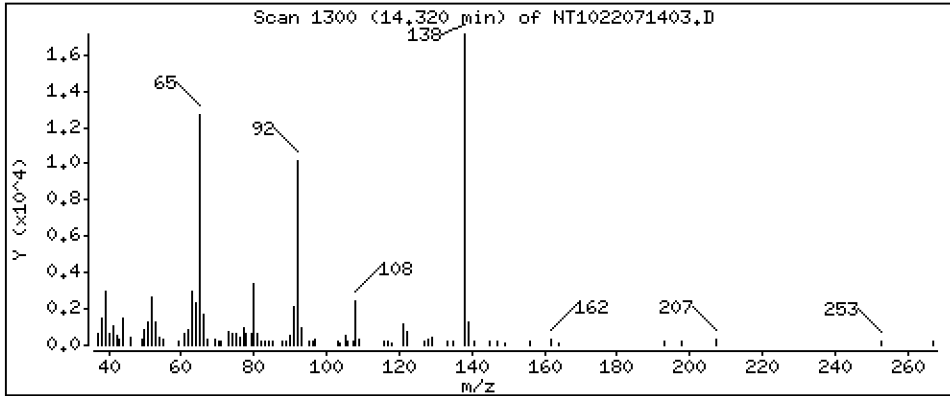
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,004 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

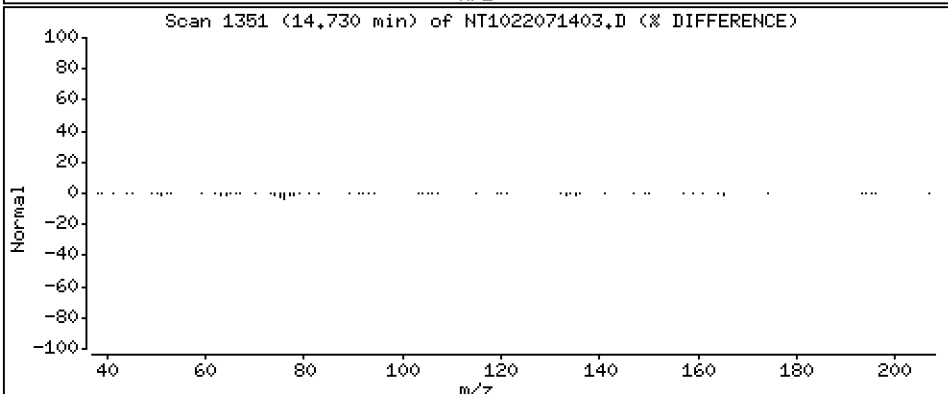
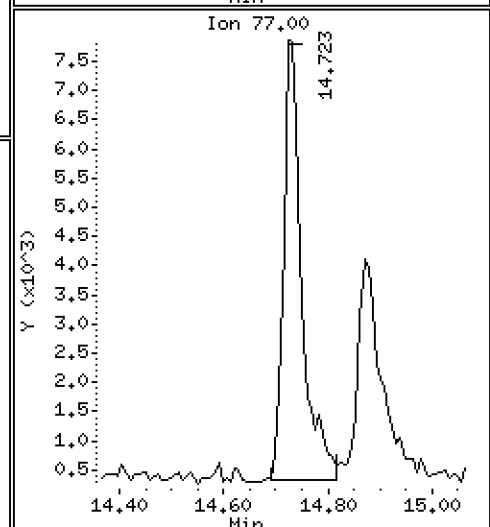
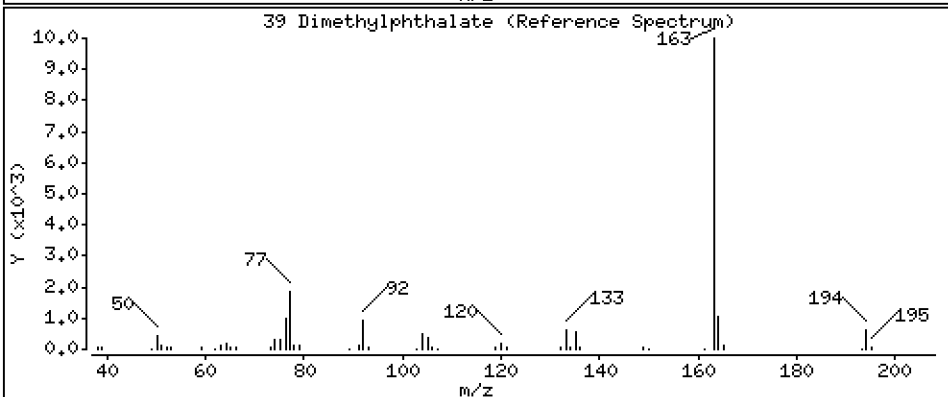
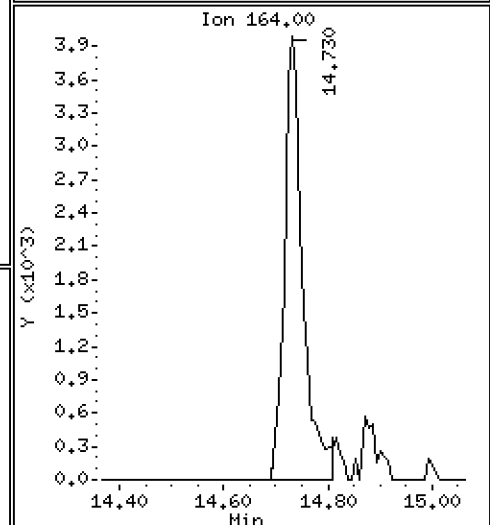
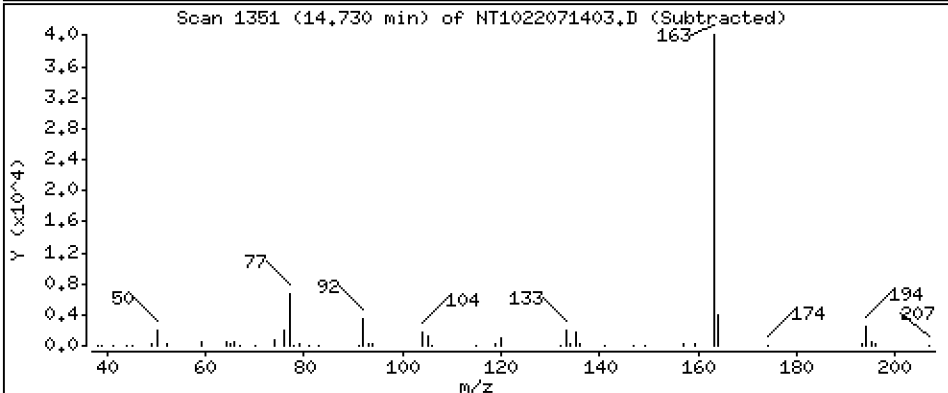
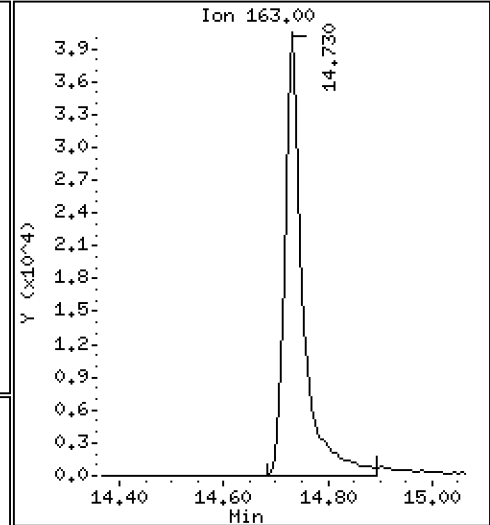
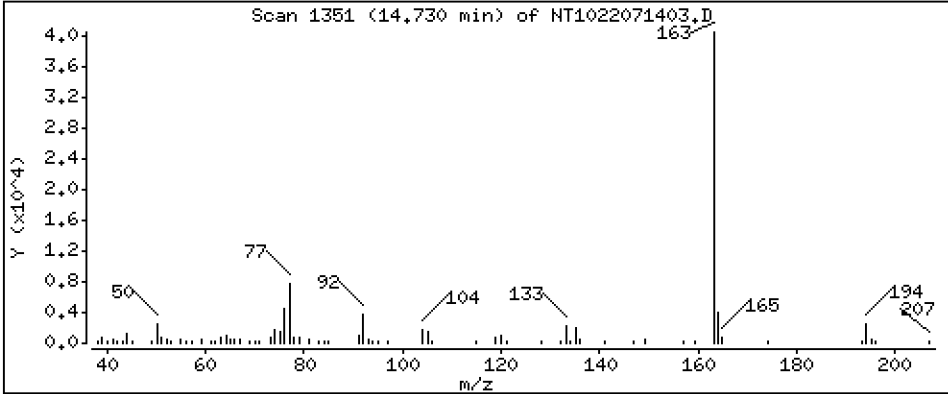
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,7539 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

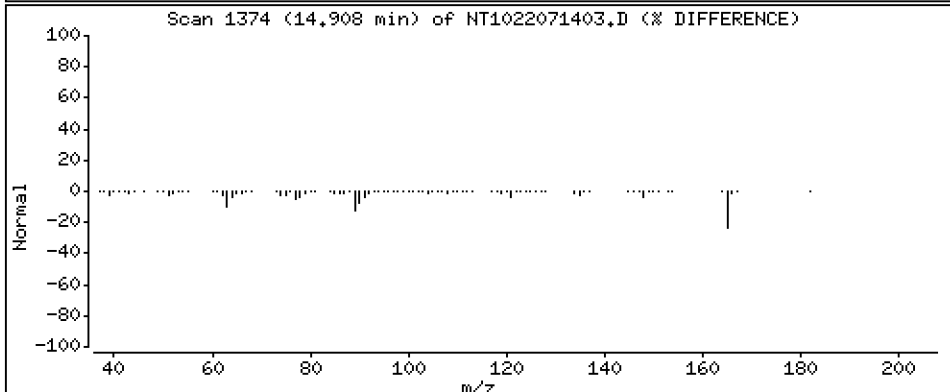
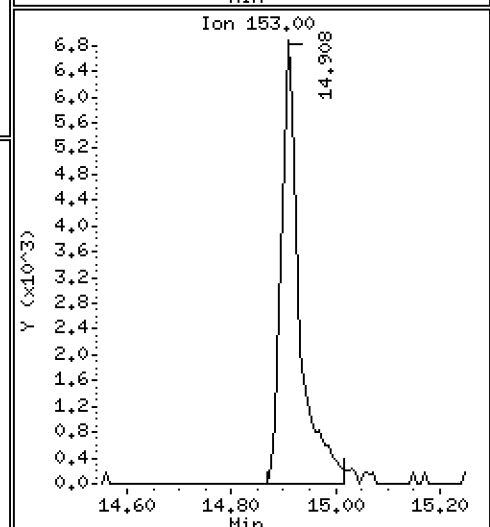
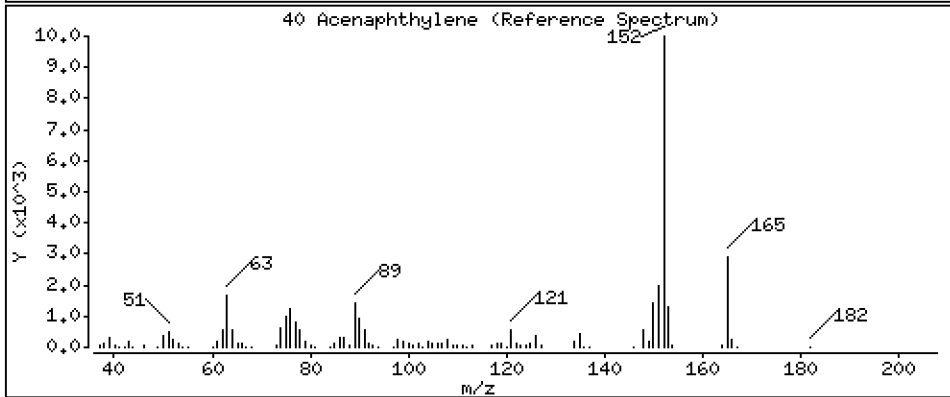
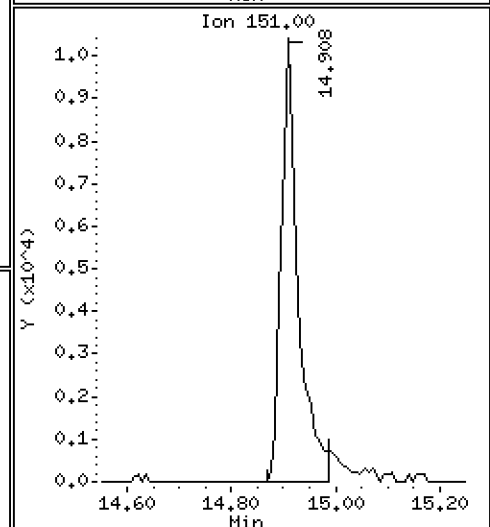
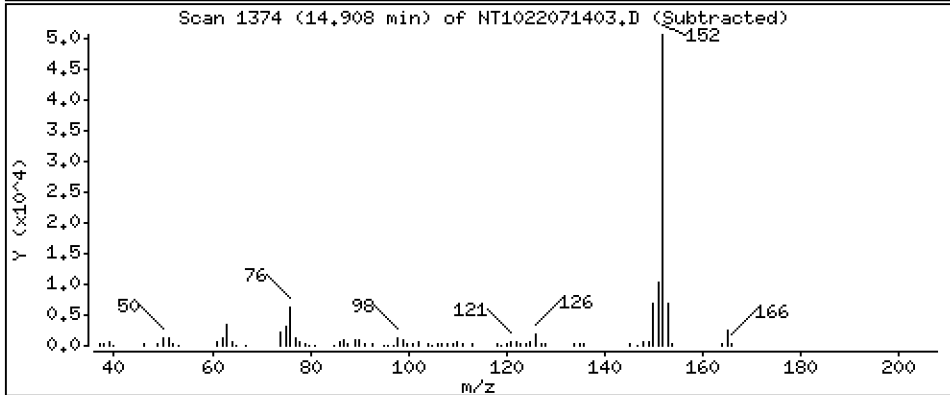
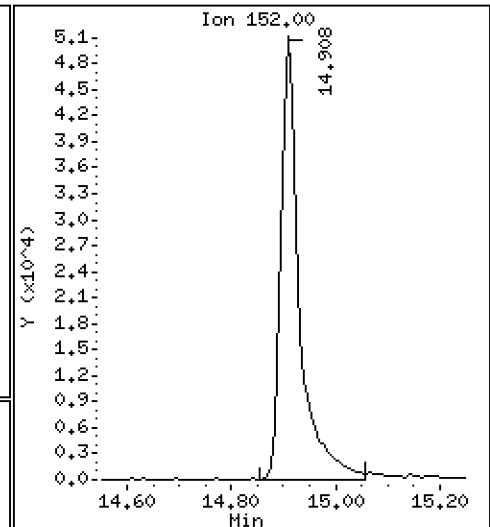
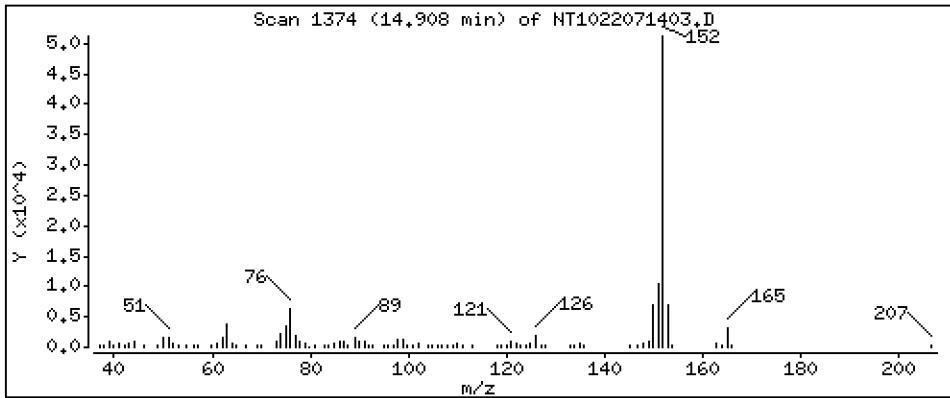
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,6125 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

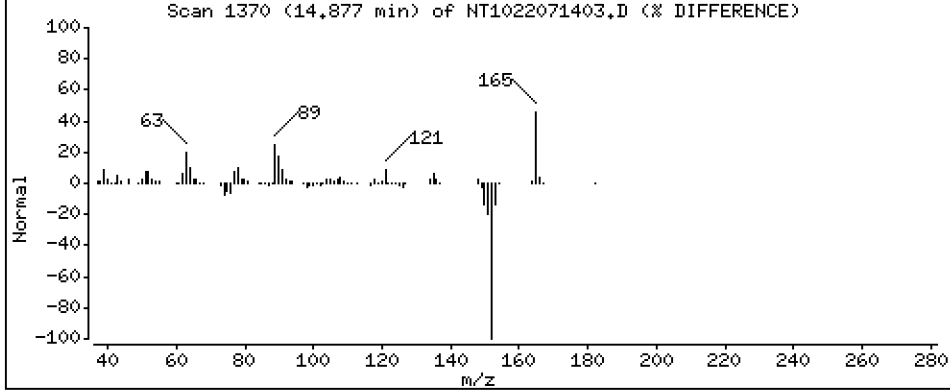
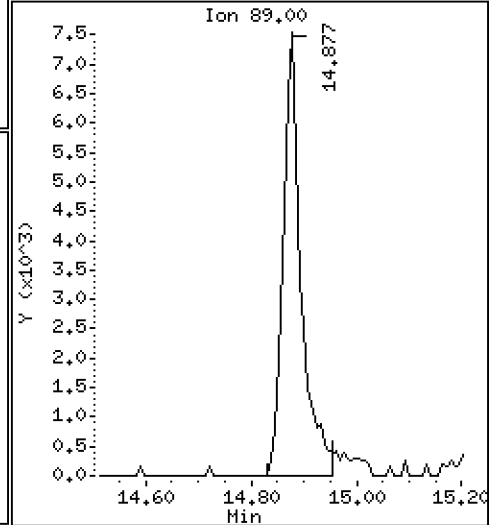
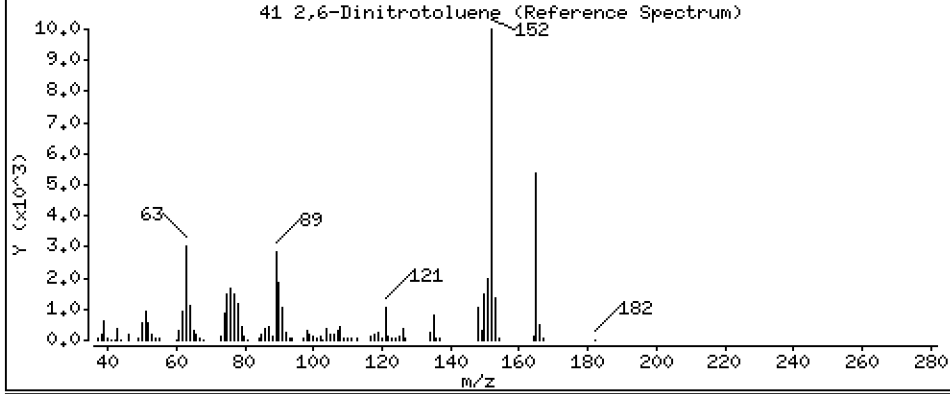
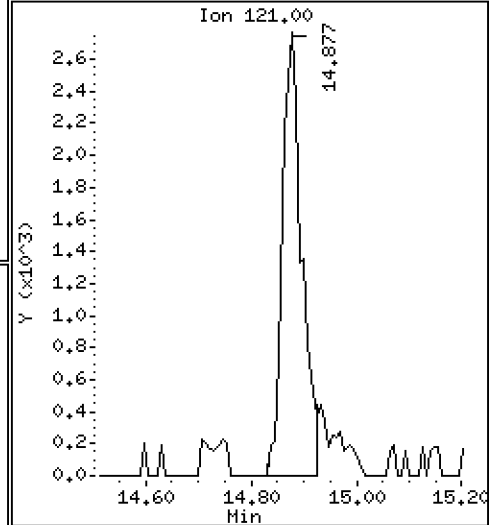
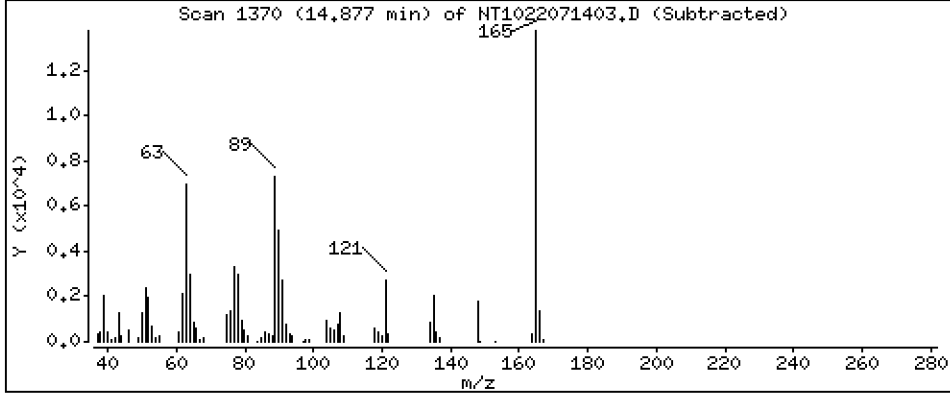
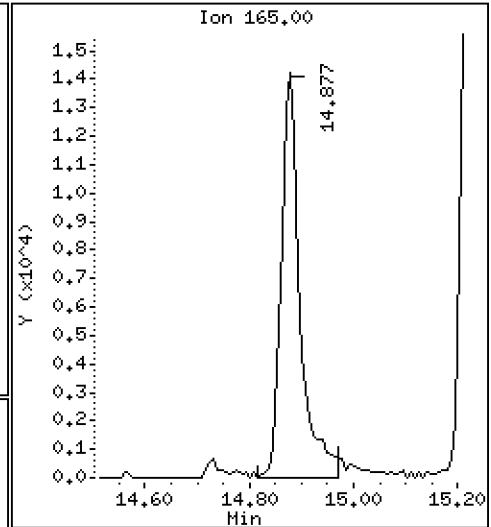
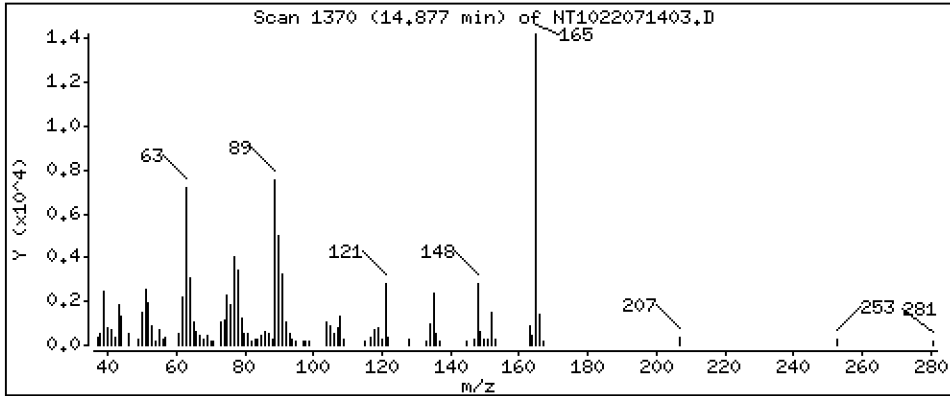
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 1,174 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

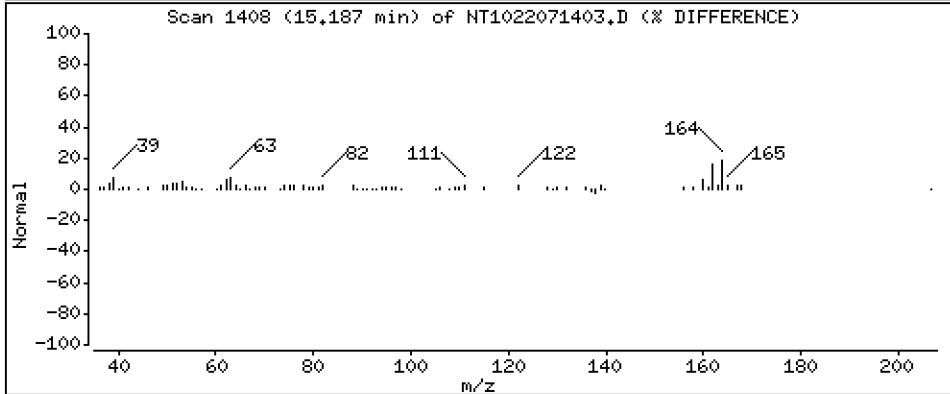
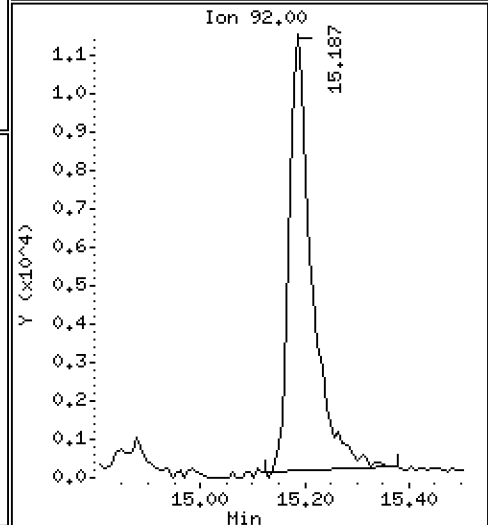
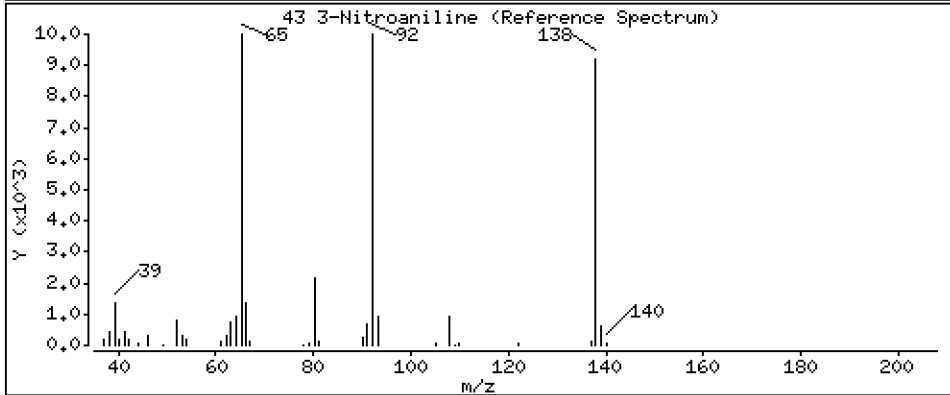
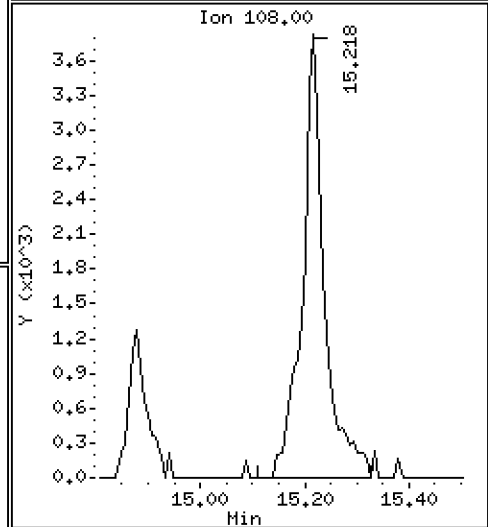
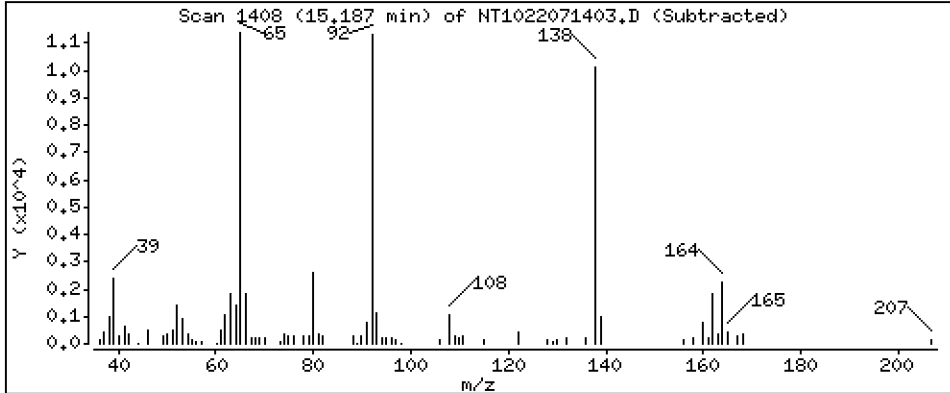
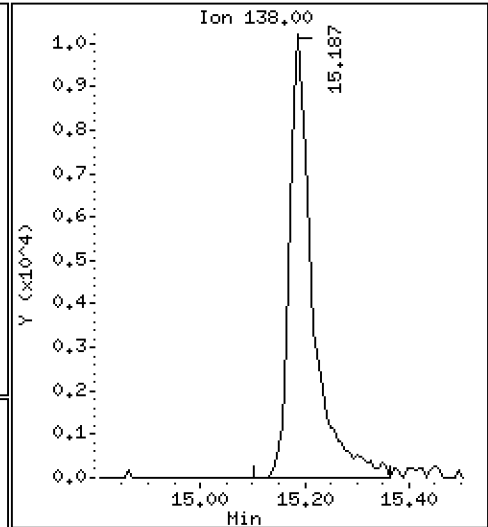
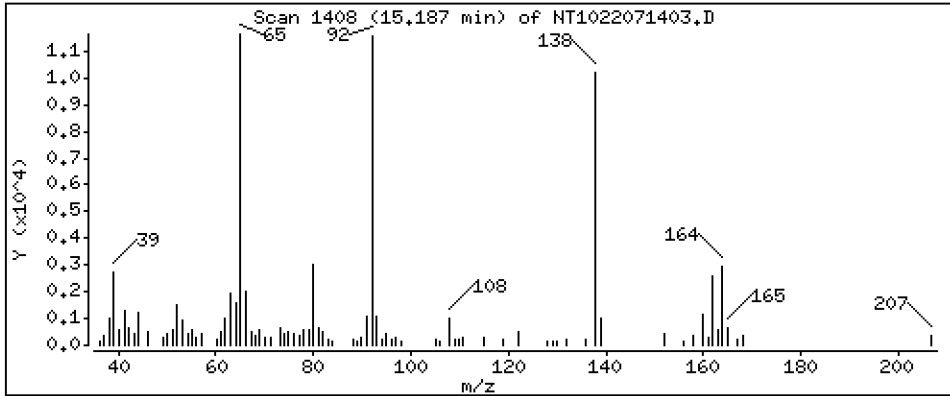
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,9027 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

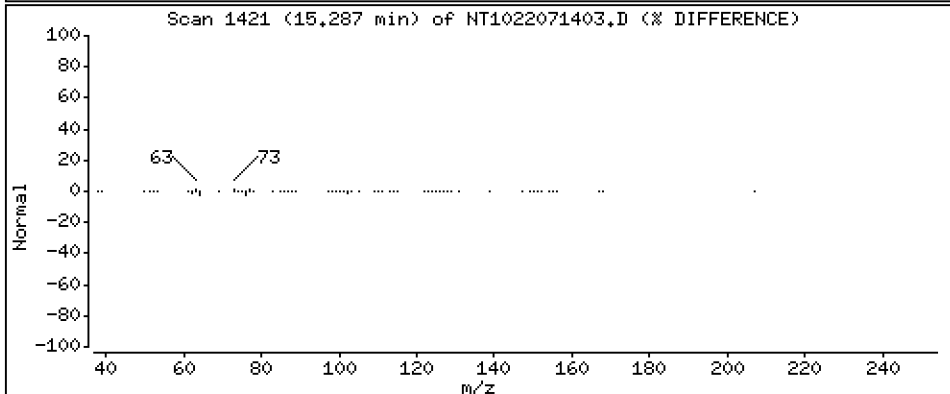
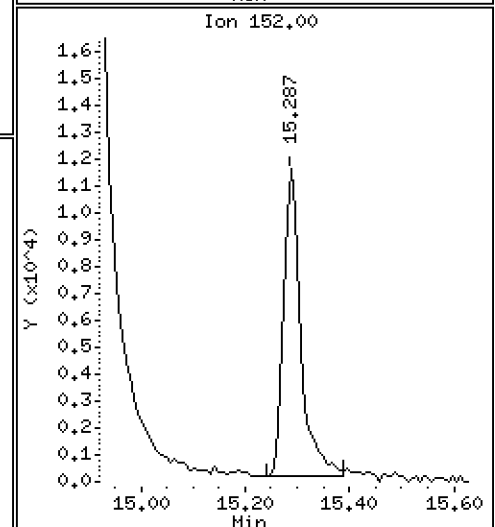
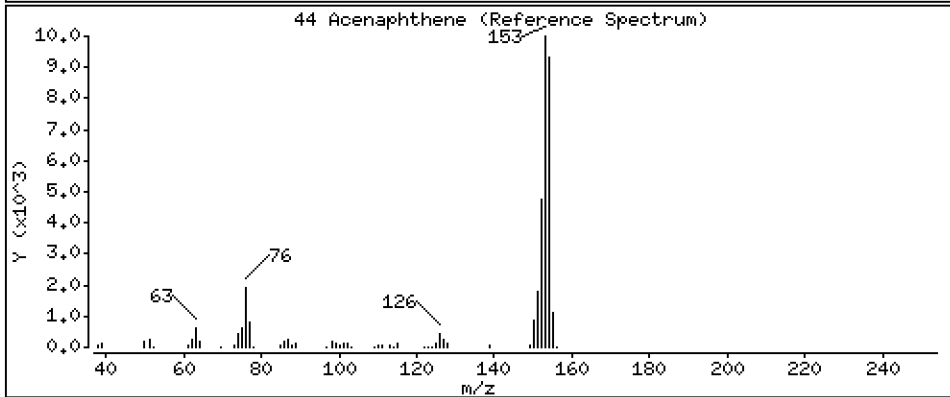
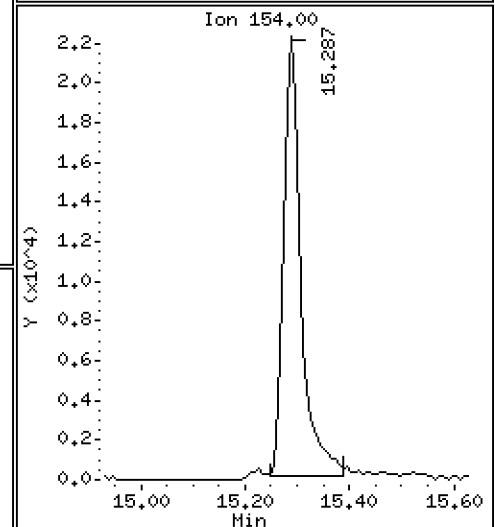
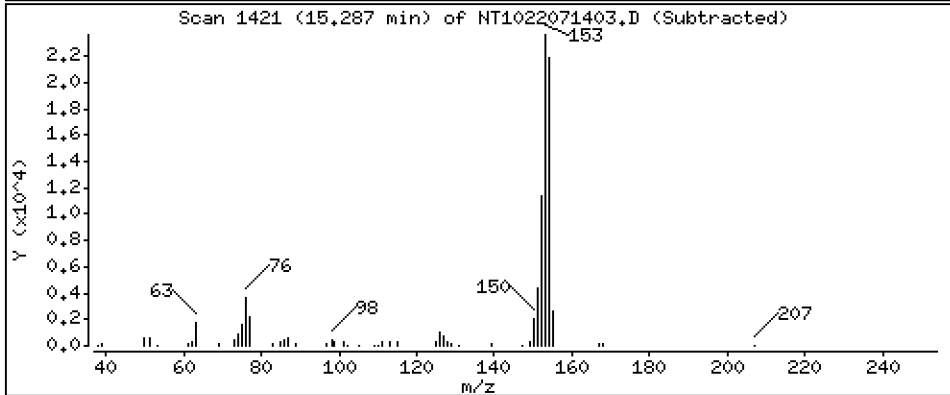
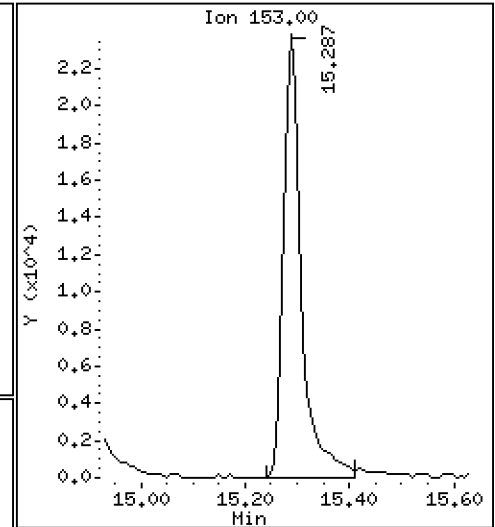
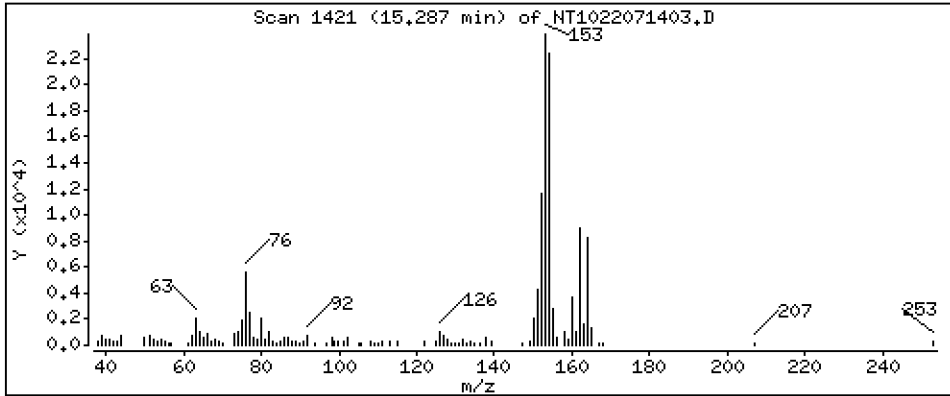
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5196 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

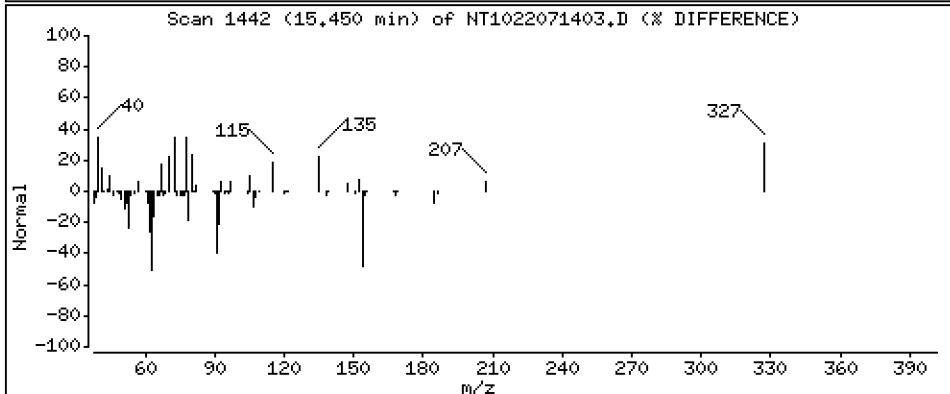
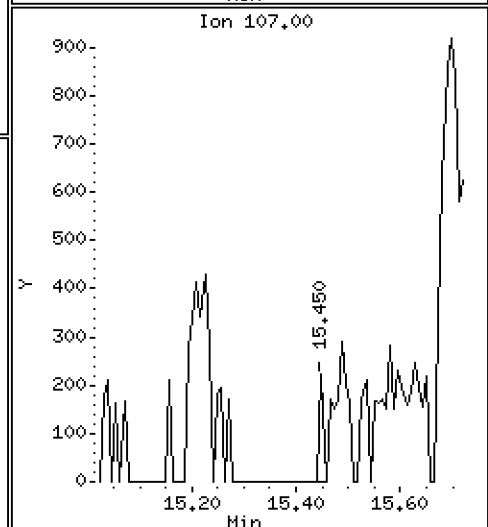
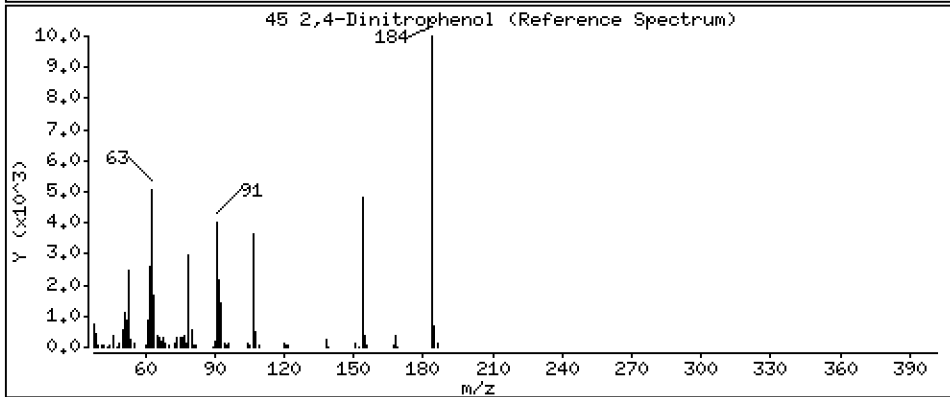
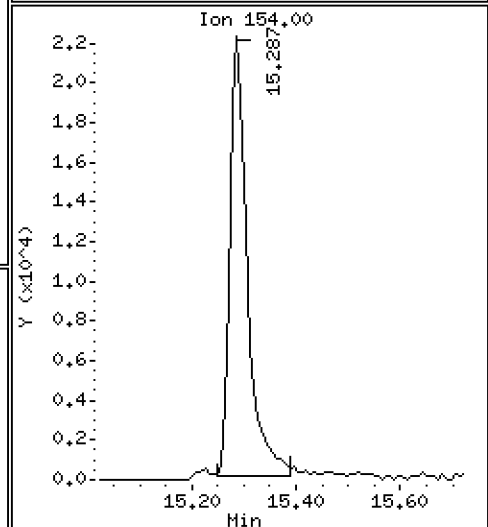
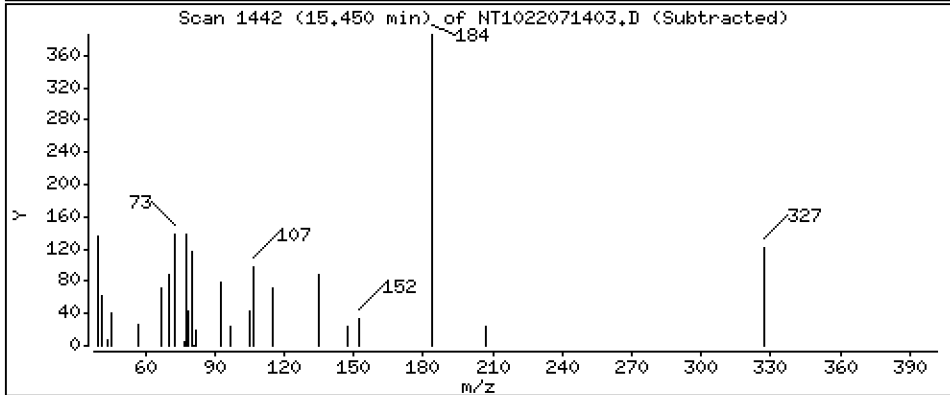
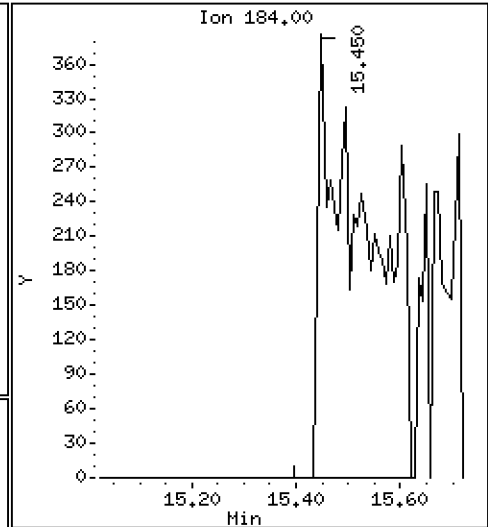
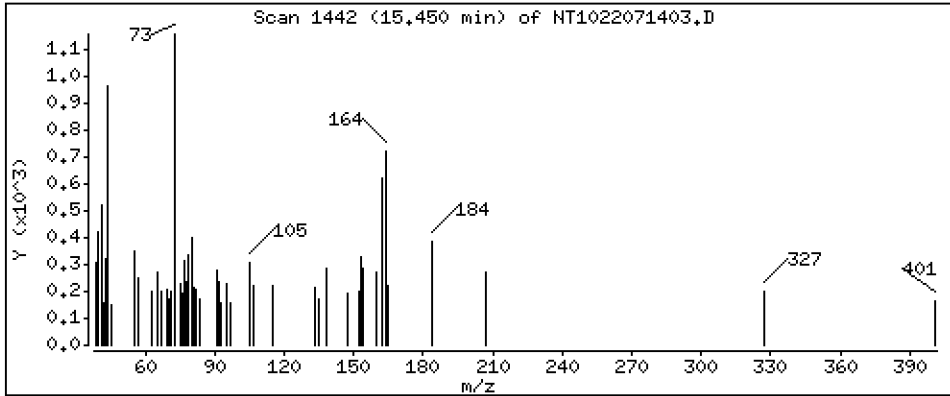
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,1784 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

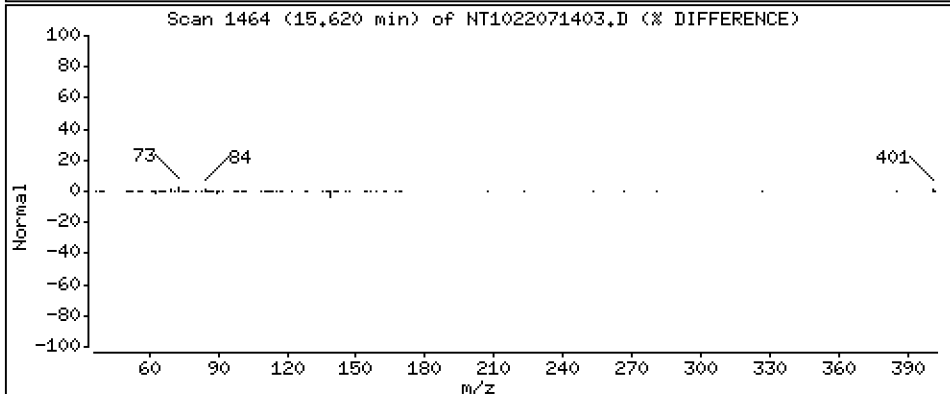
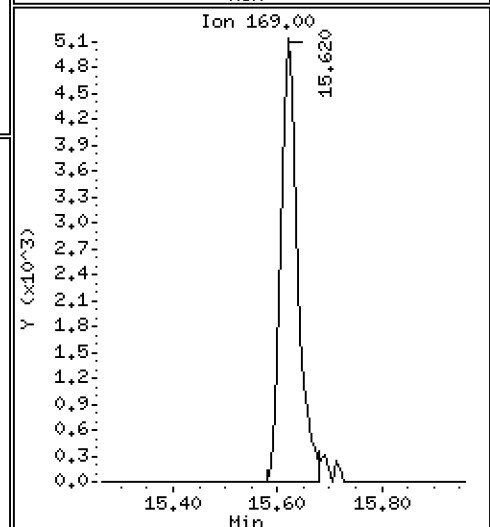
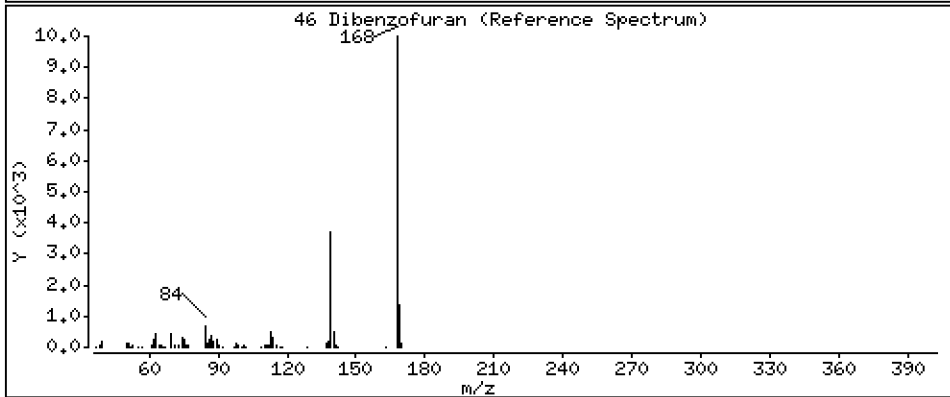
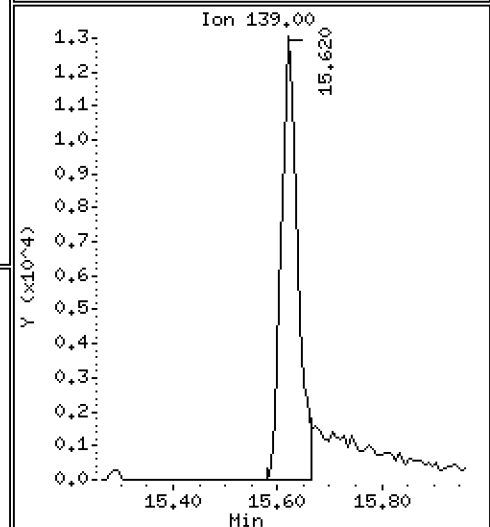
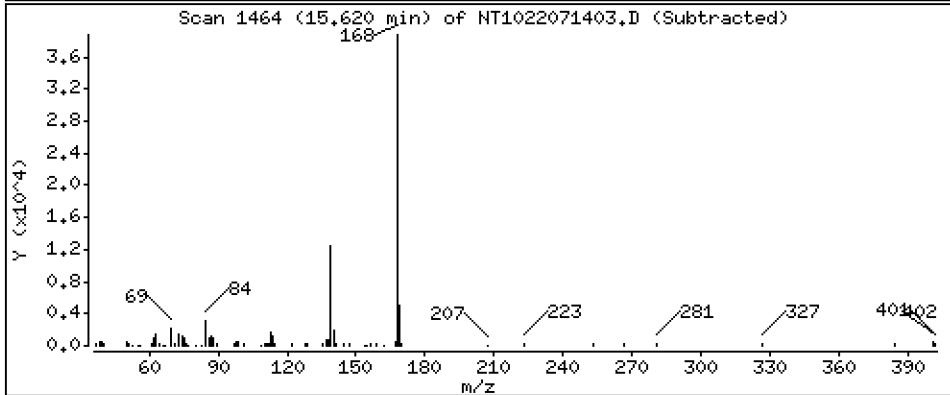
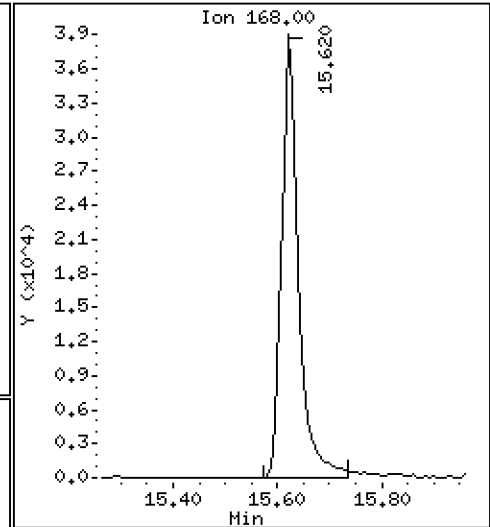
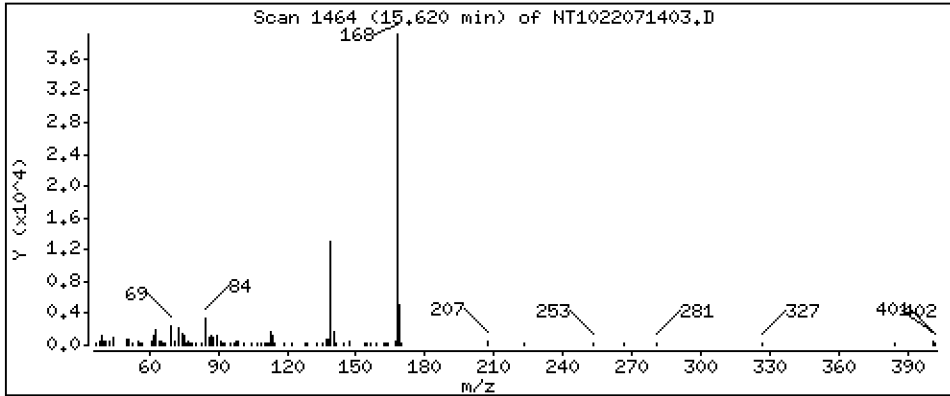
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5021 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

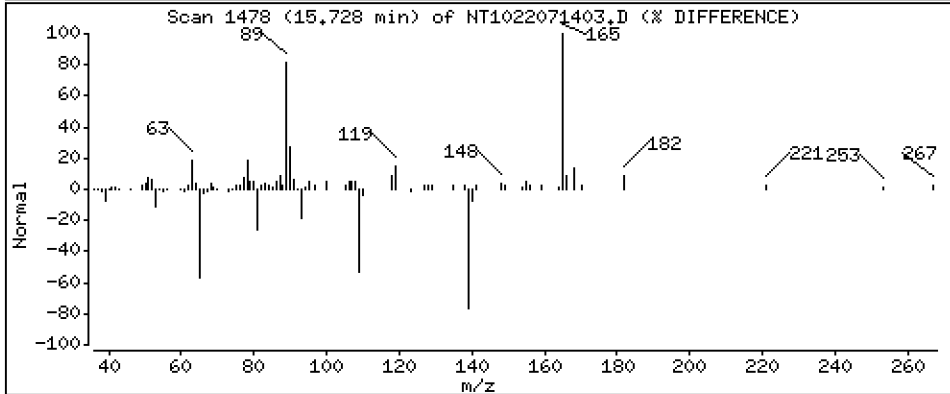
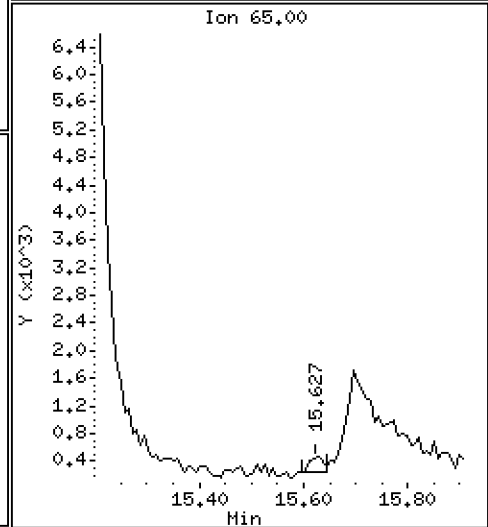
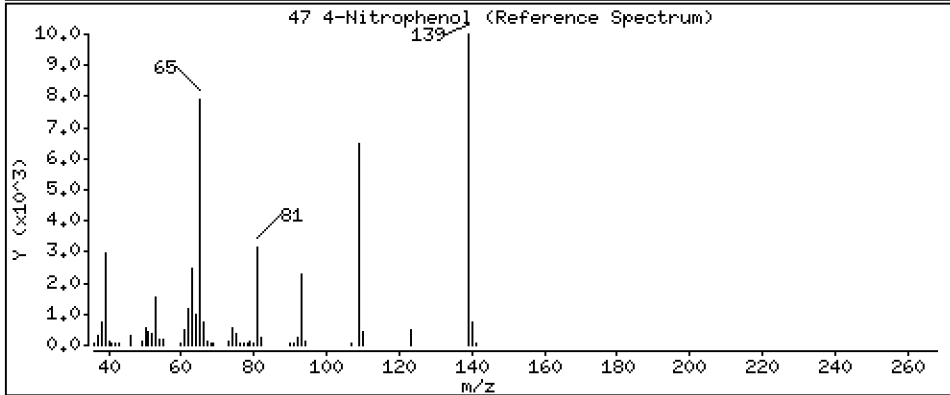
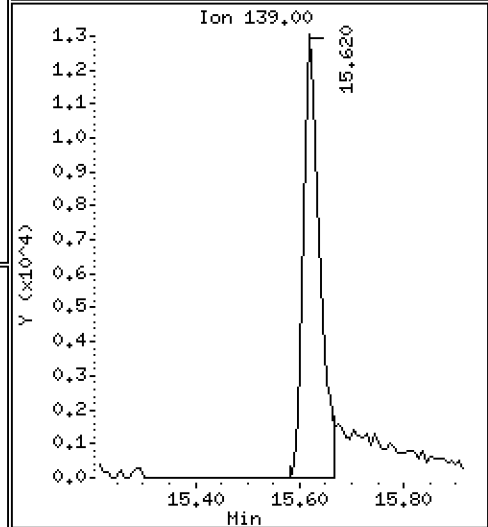
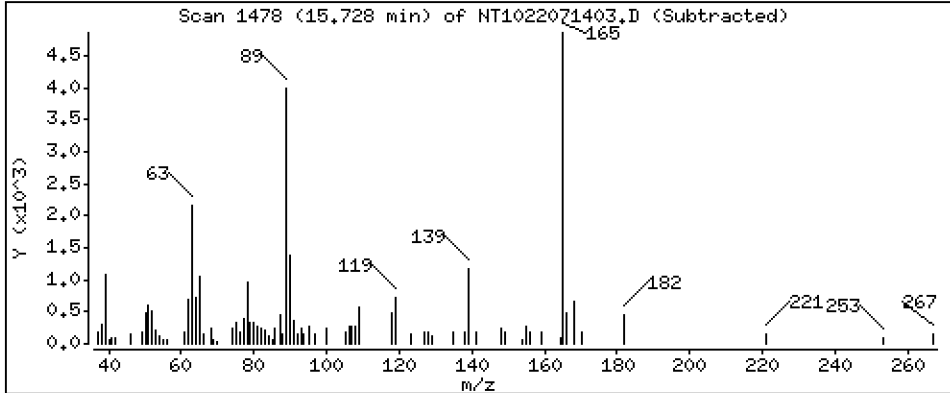
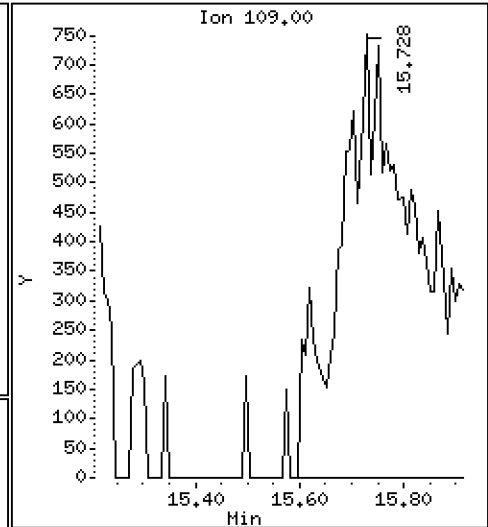
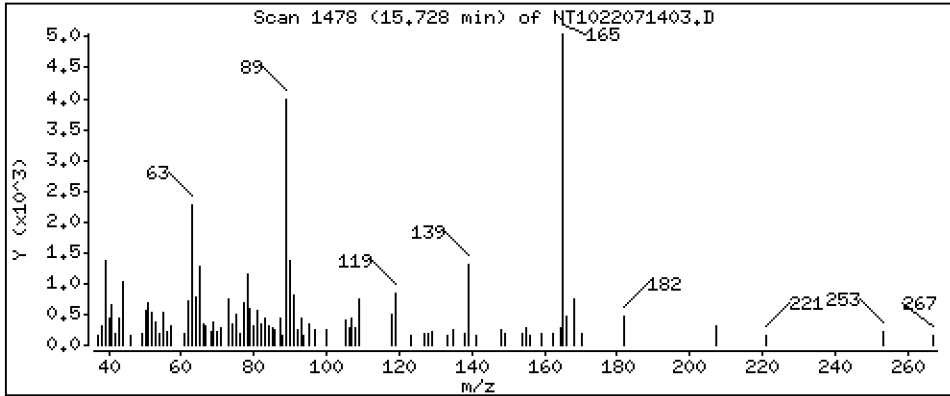
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.9245 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

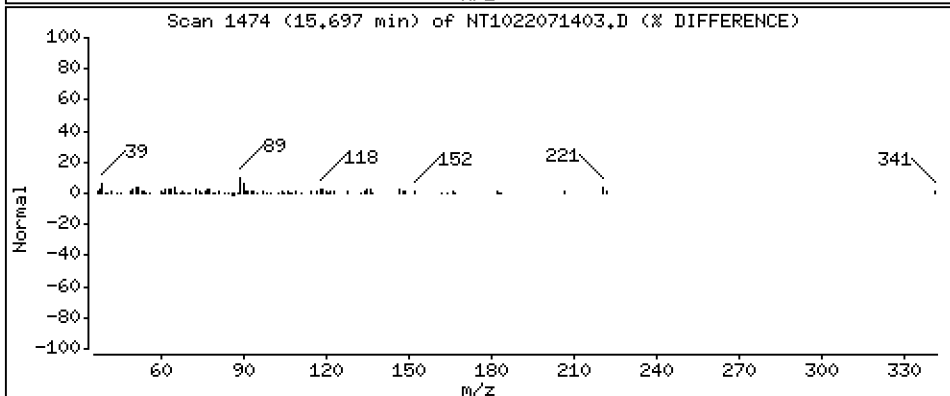
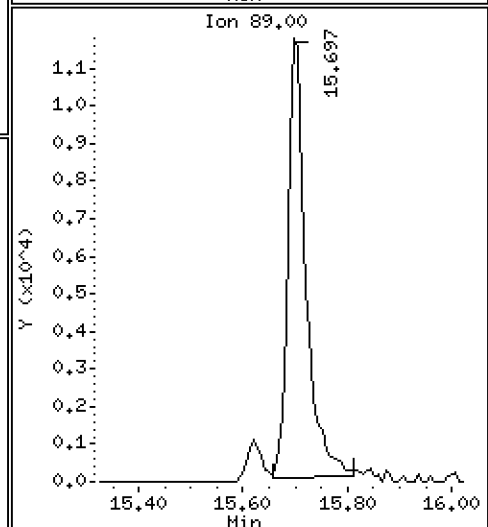
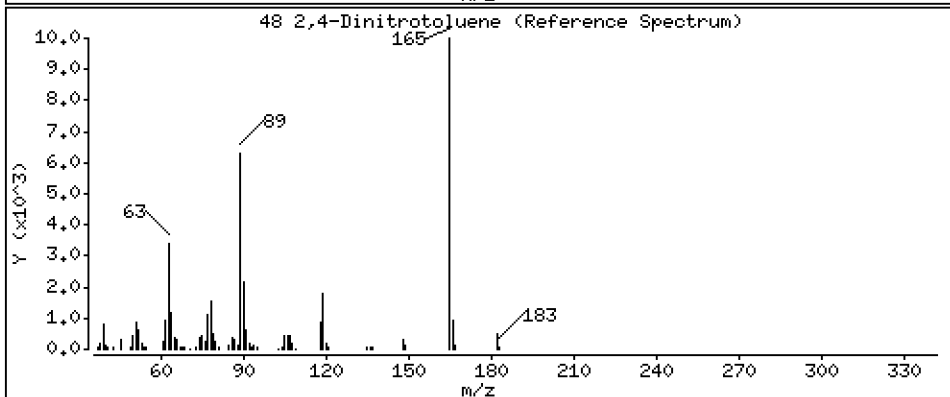
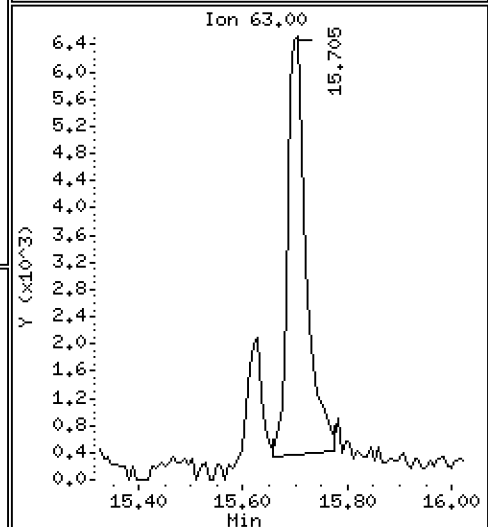
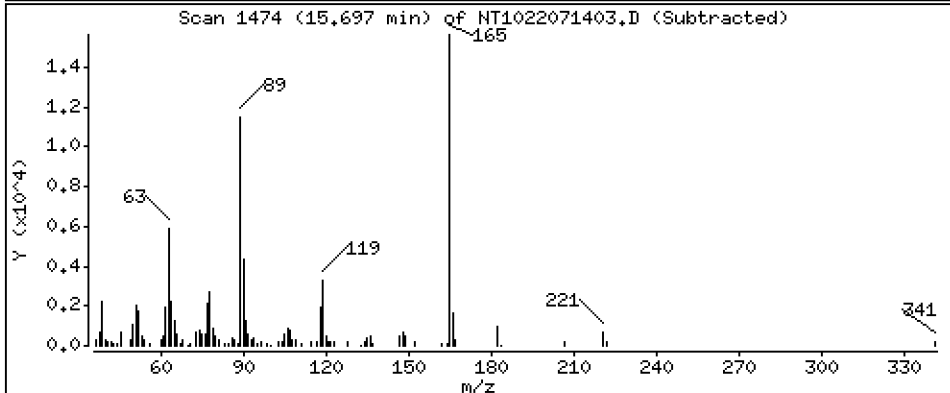
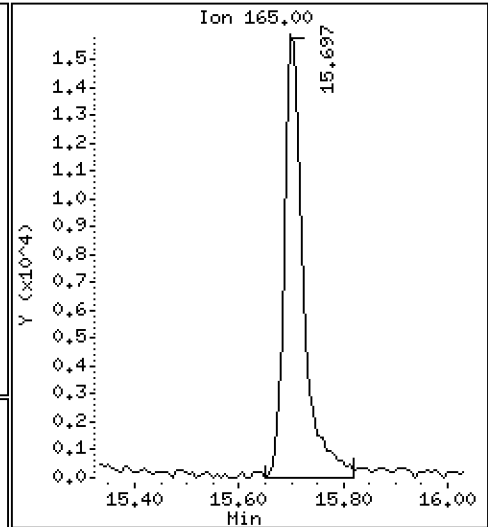
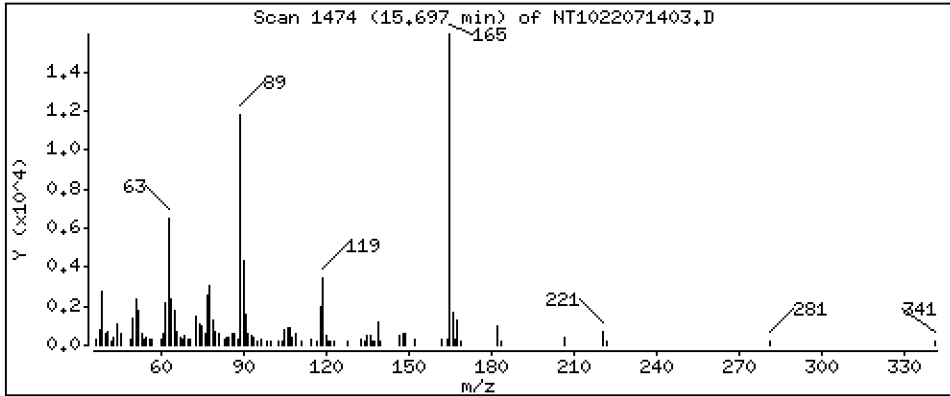
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 1,028 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

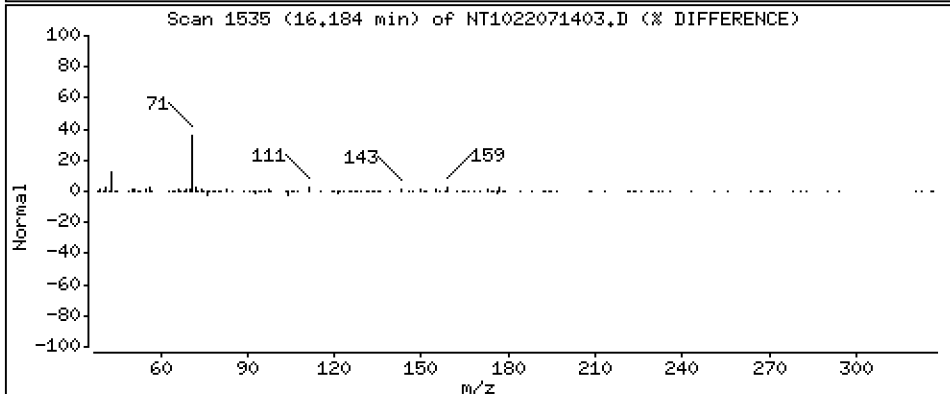
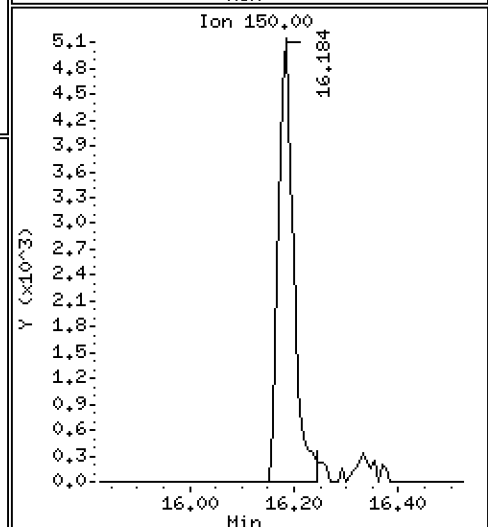
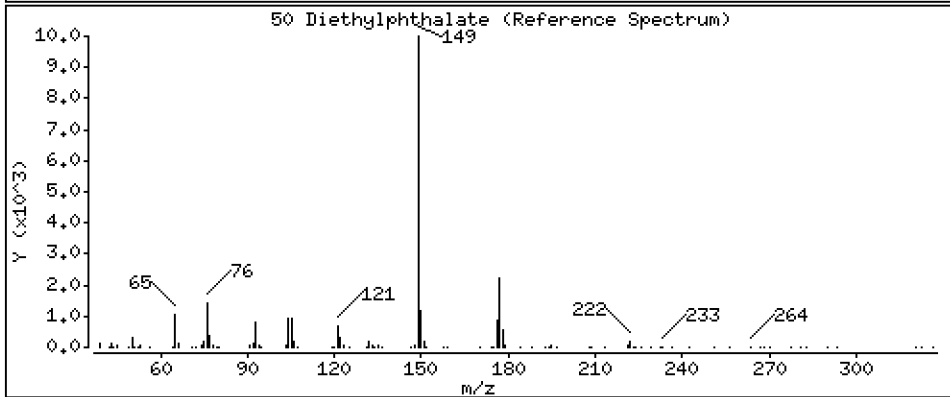
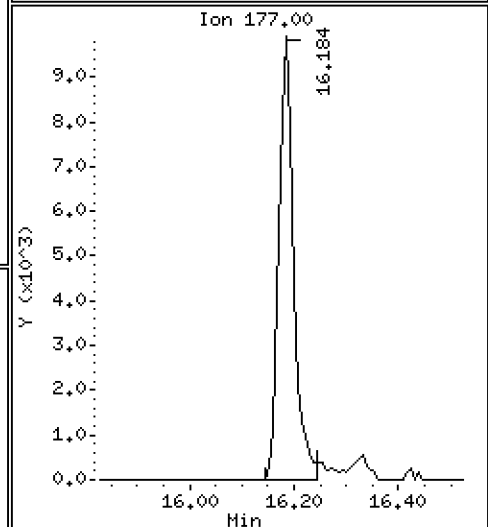
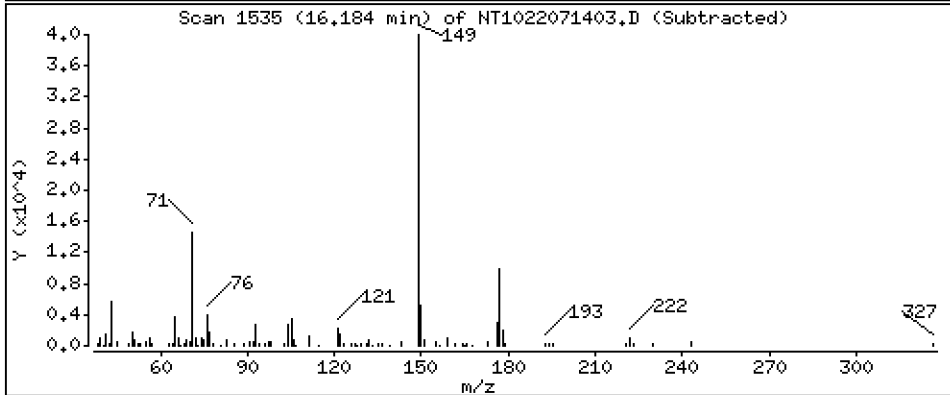
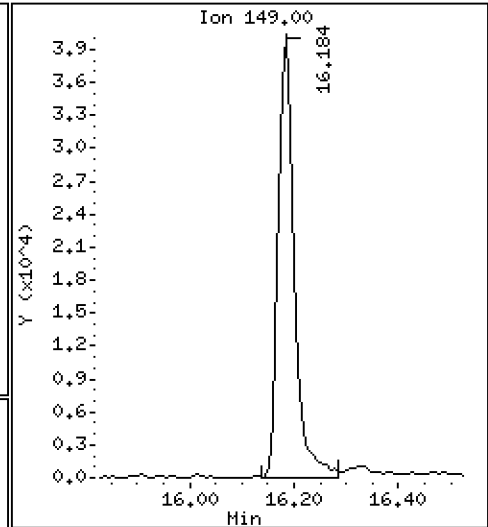
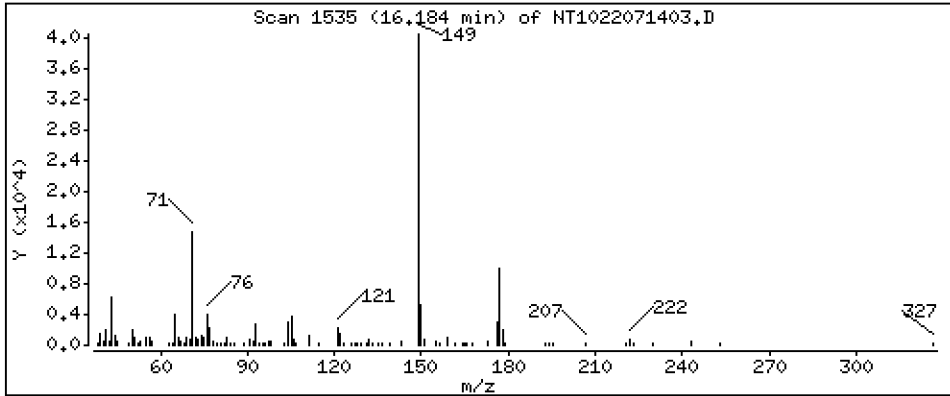
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,7548 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

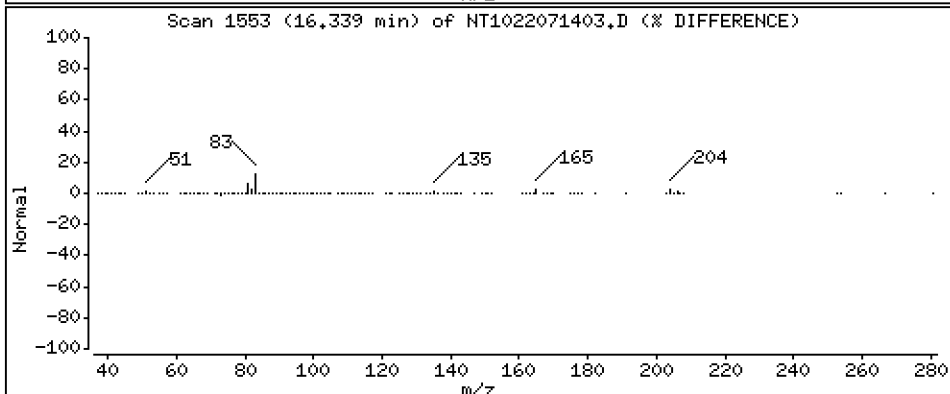
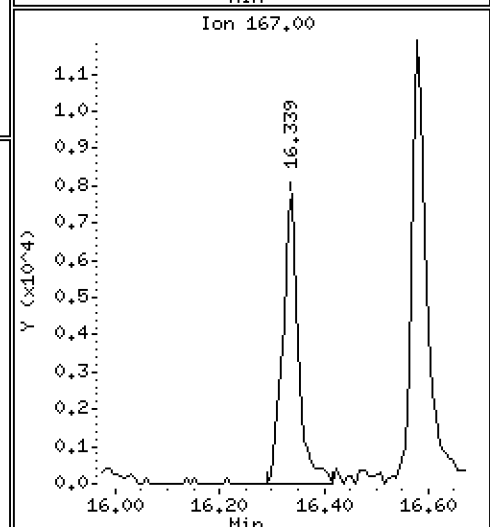
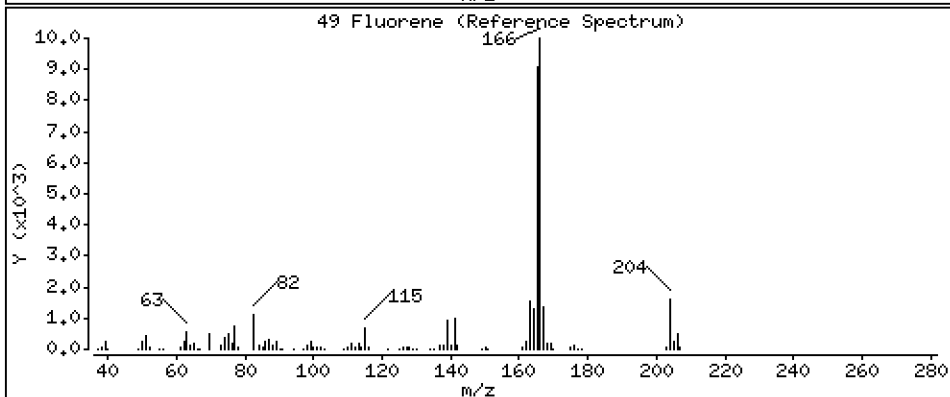
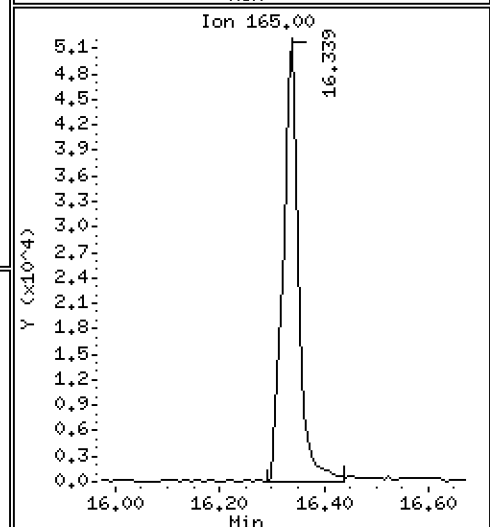
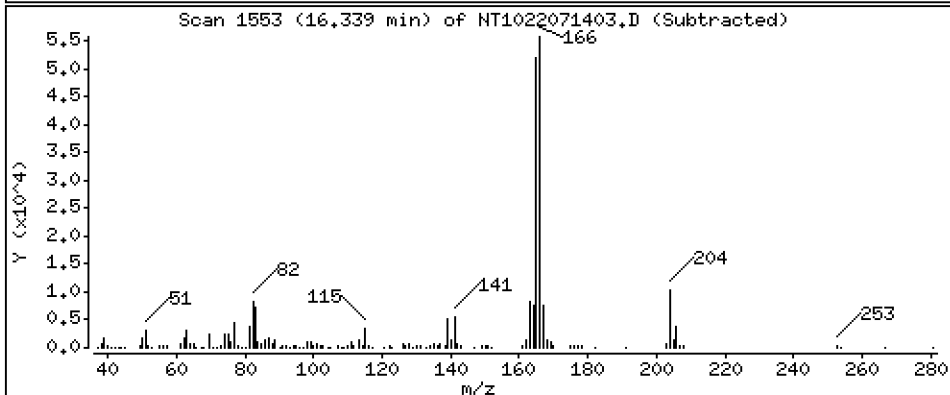
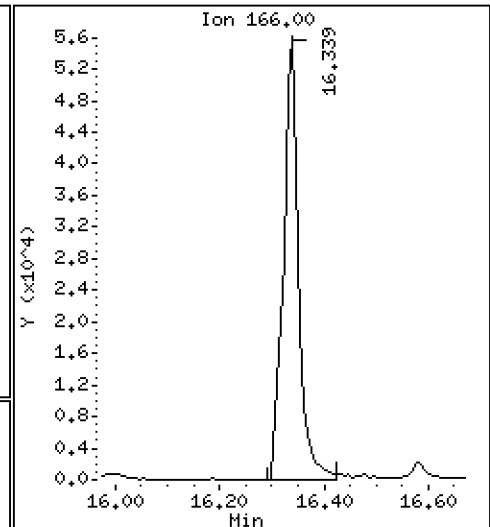
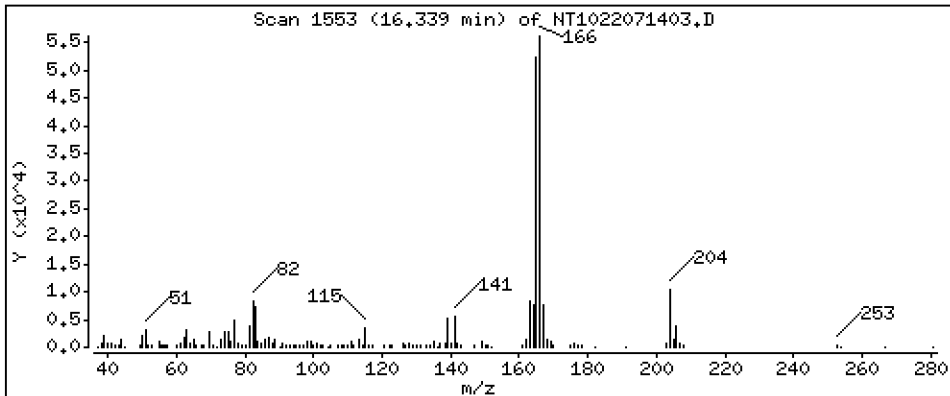
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5564 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

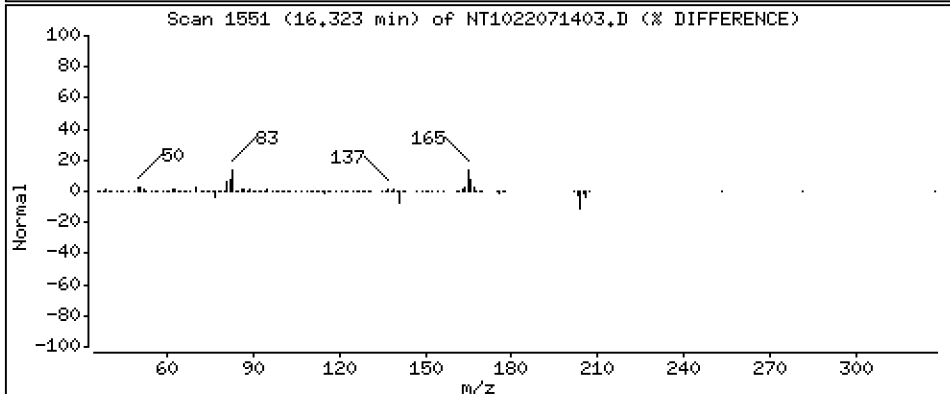
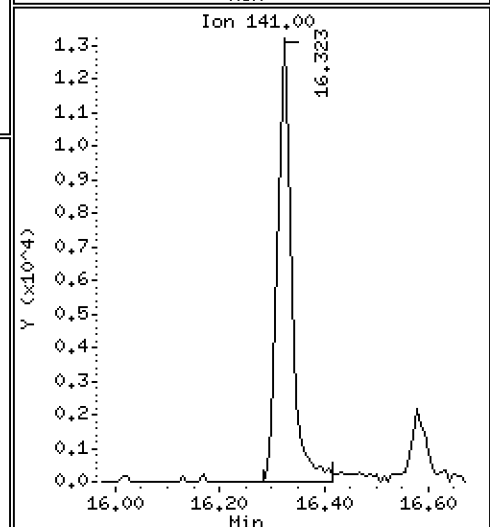
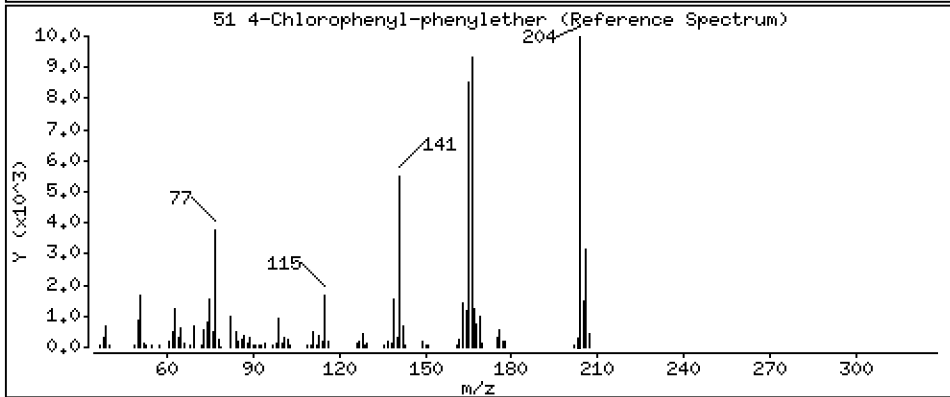
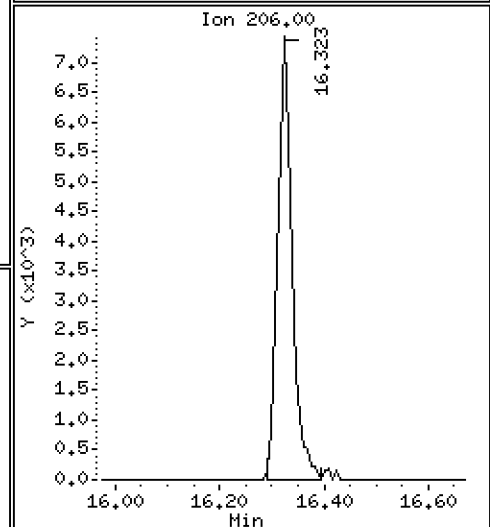
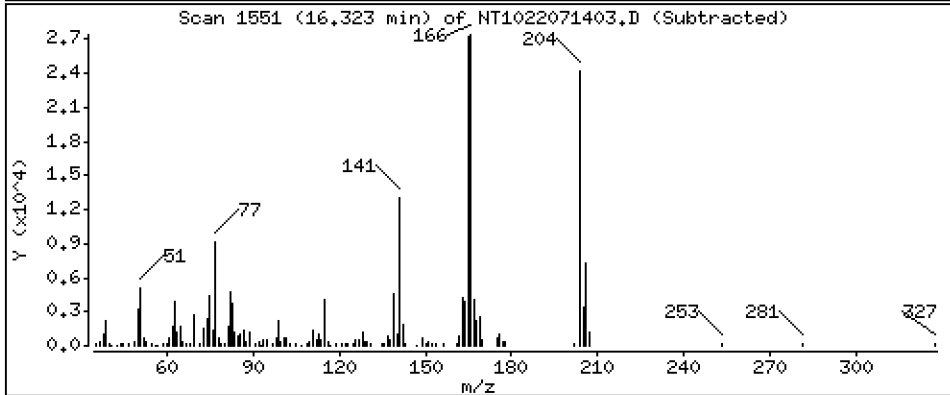
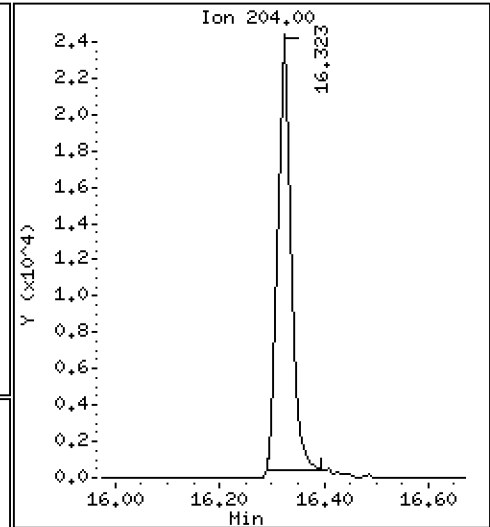
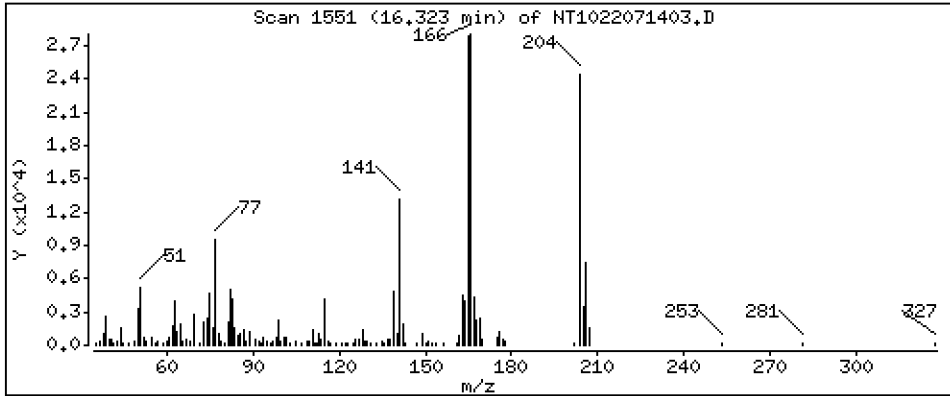
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,3834 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

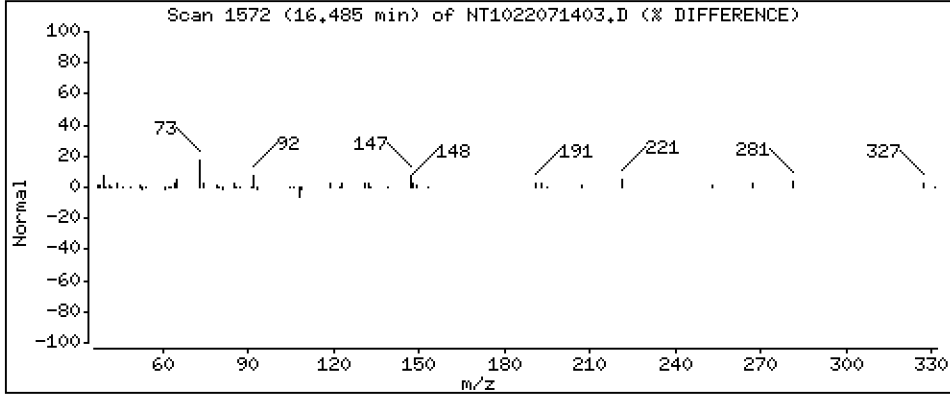
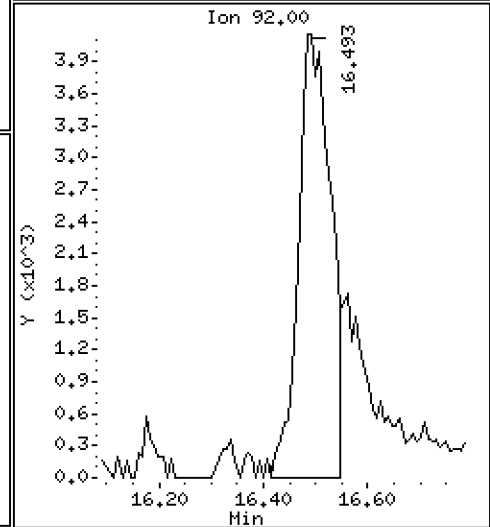
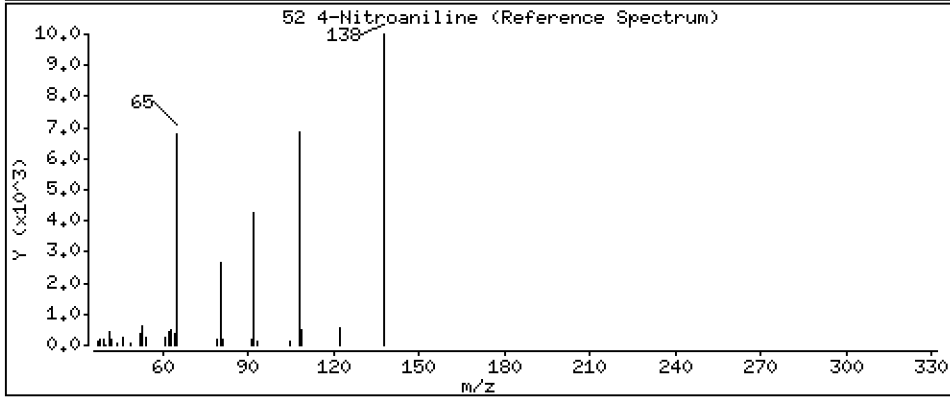
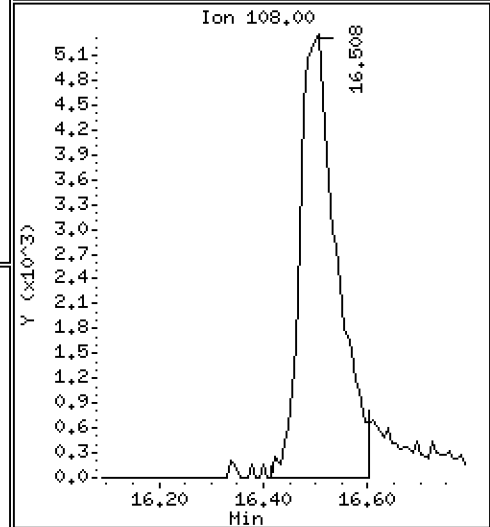
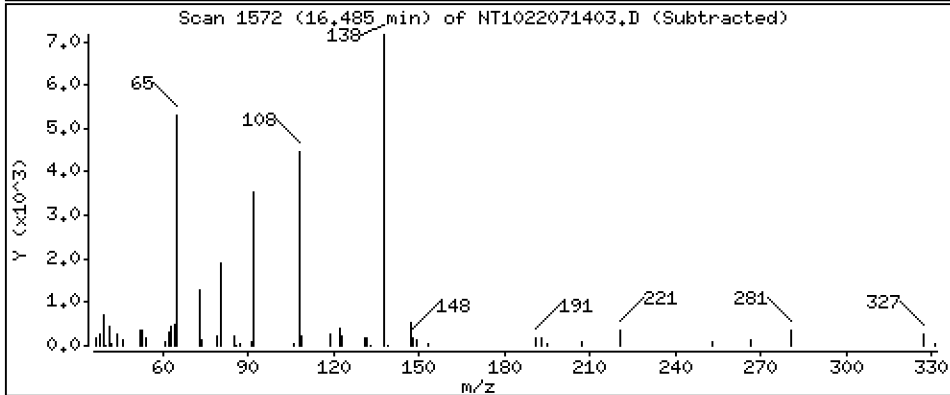
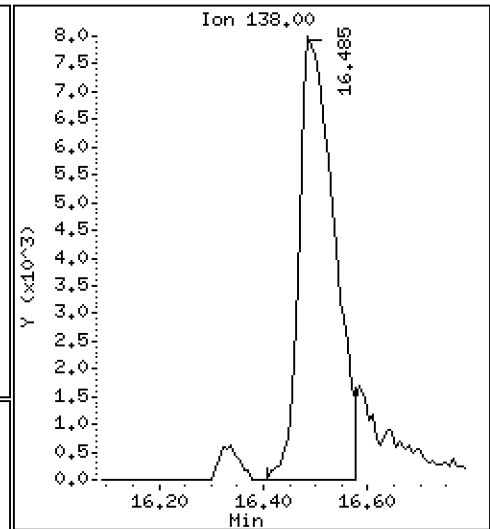
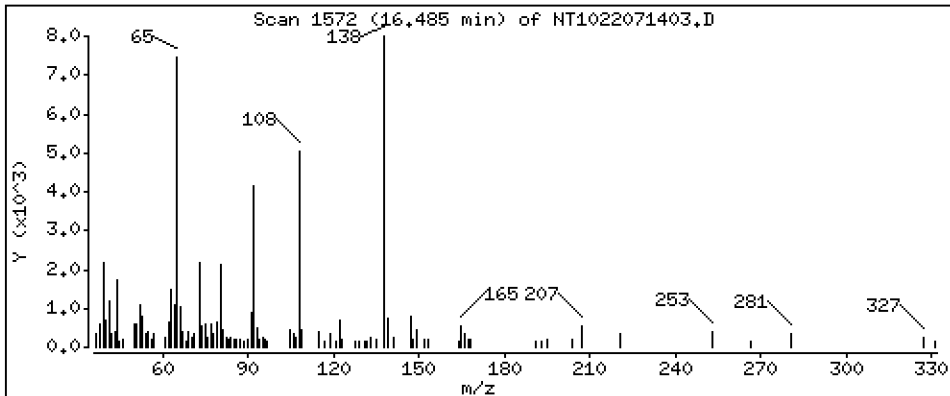
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

52 4-Nitroaniline

Concentration: 1.048 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

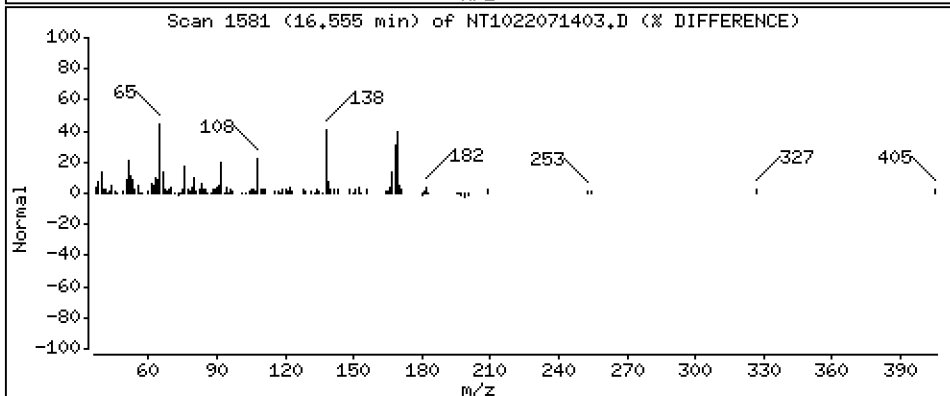
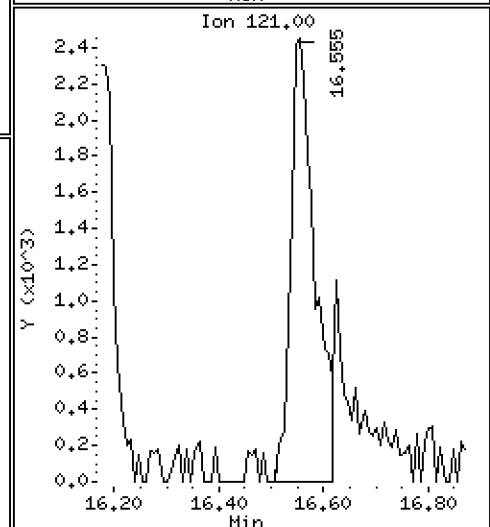
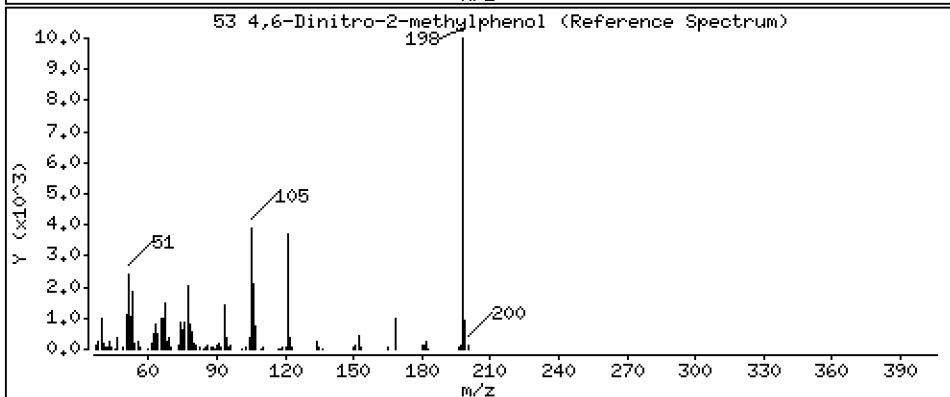
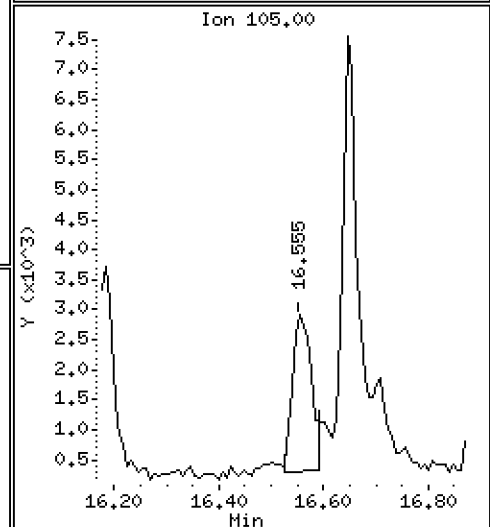
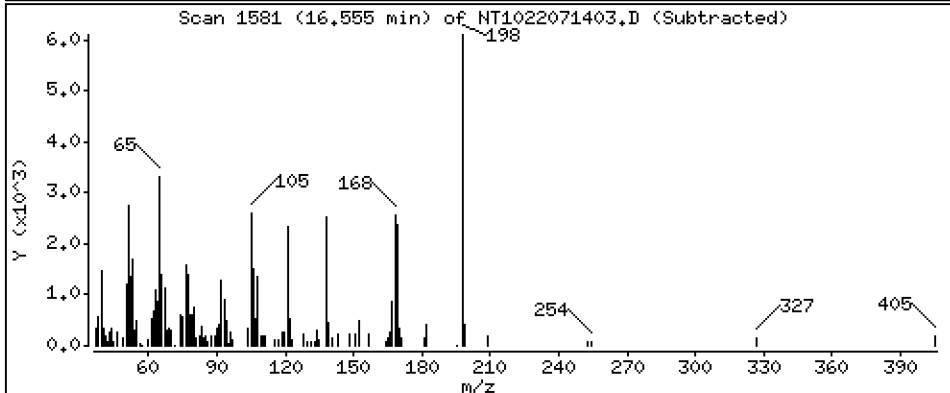
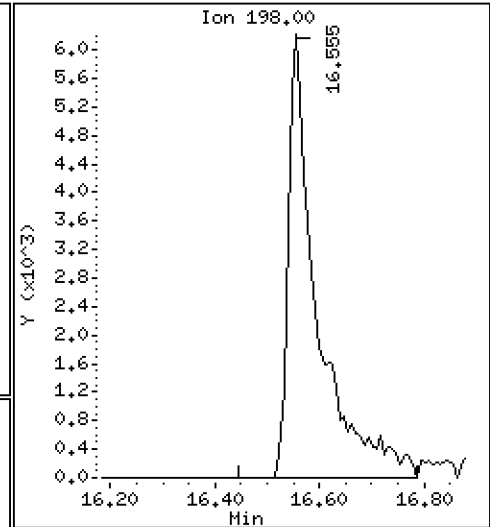
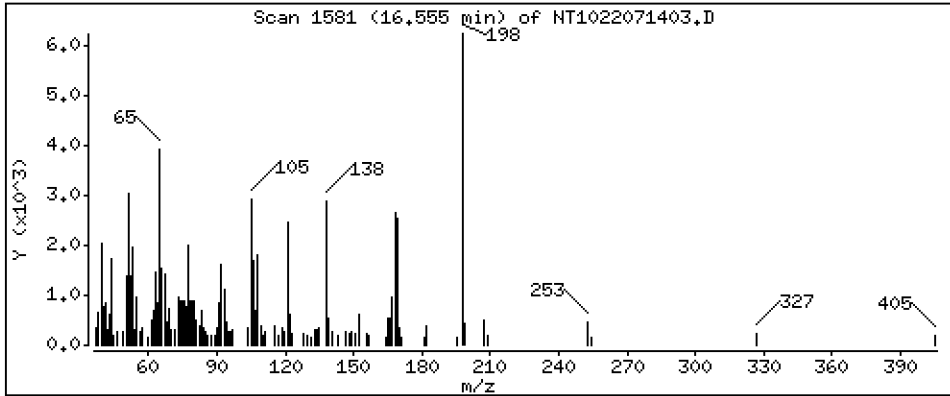
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.9795 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

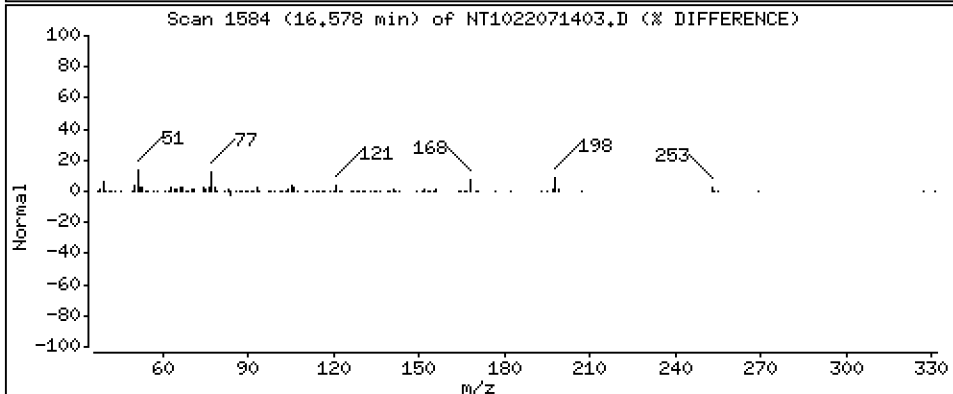
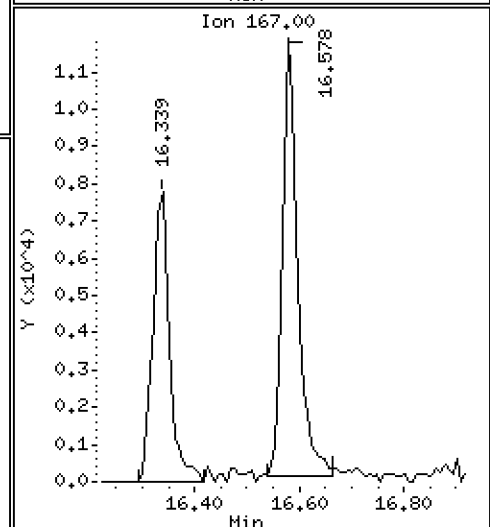
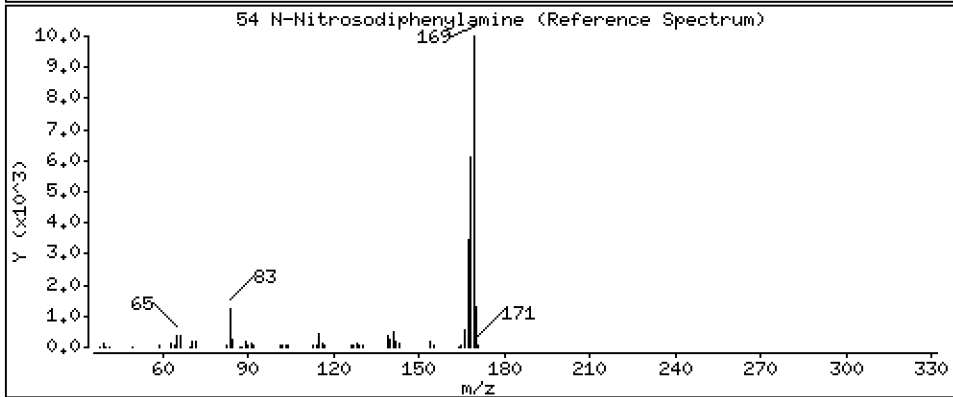
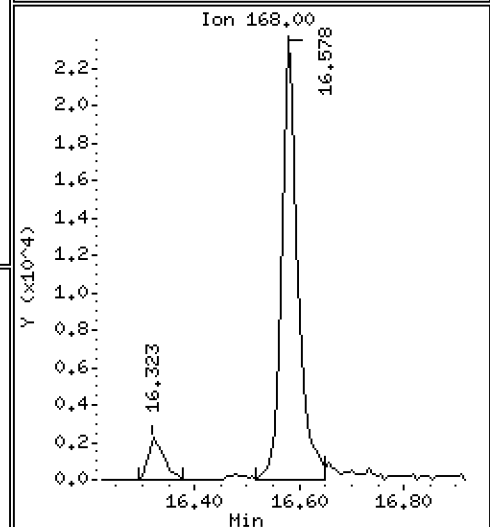
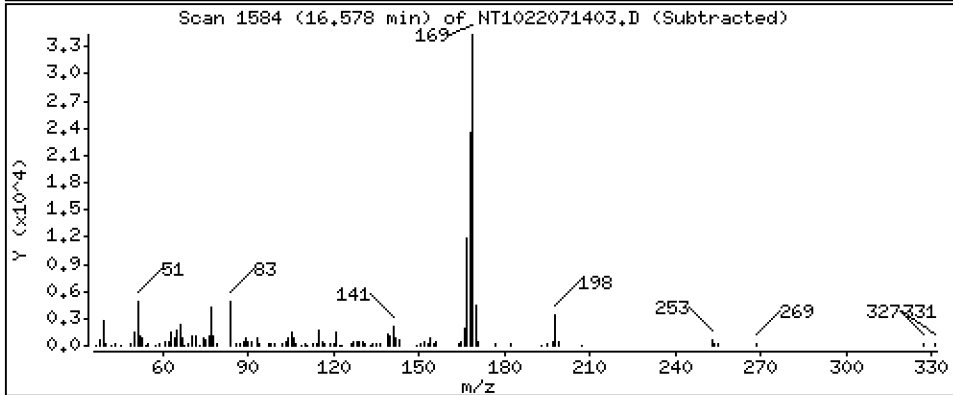
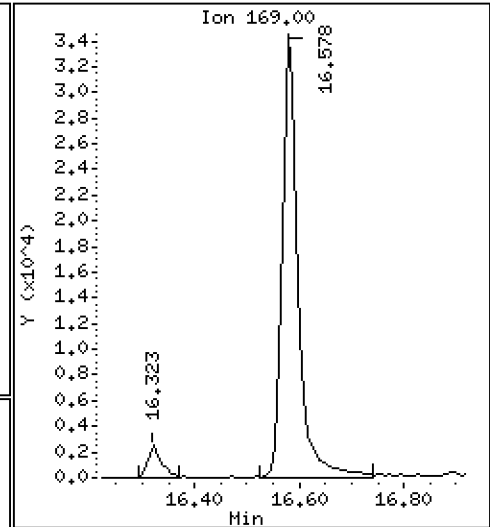
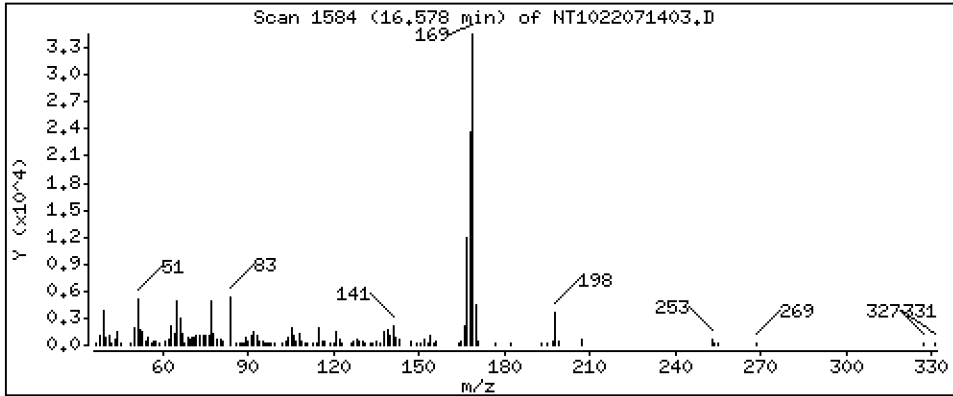
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,7290 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

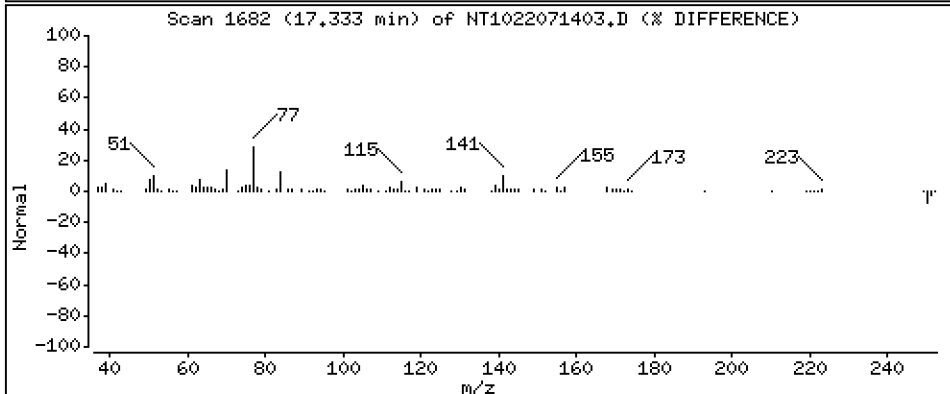
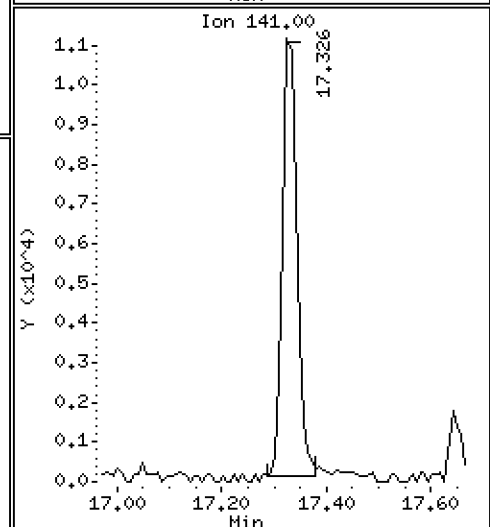
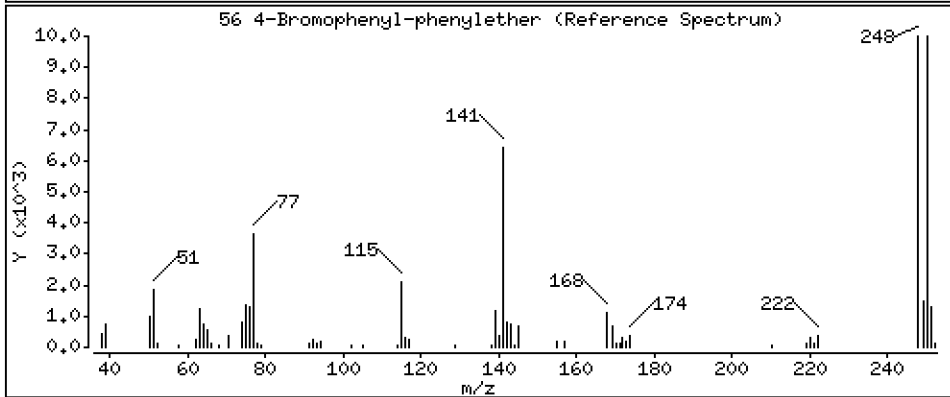
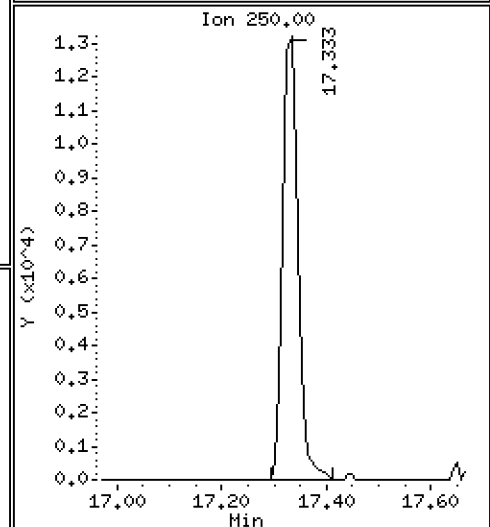
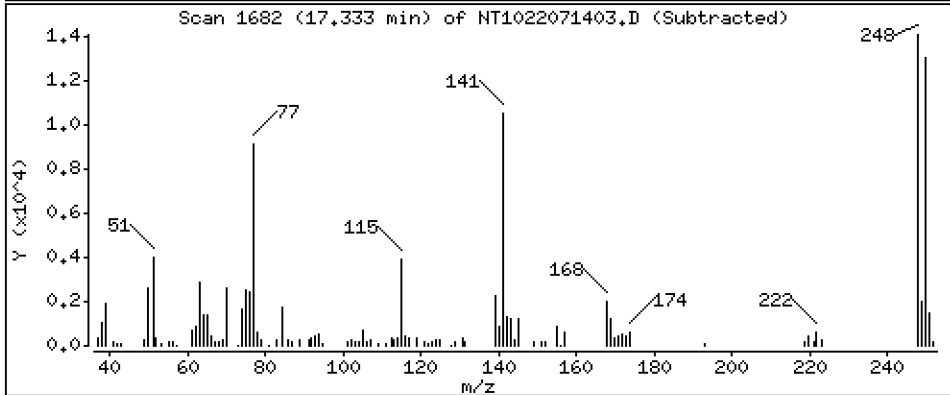
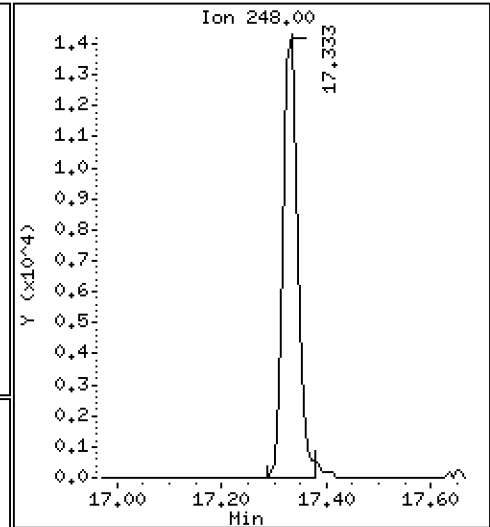
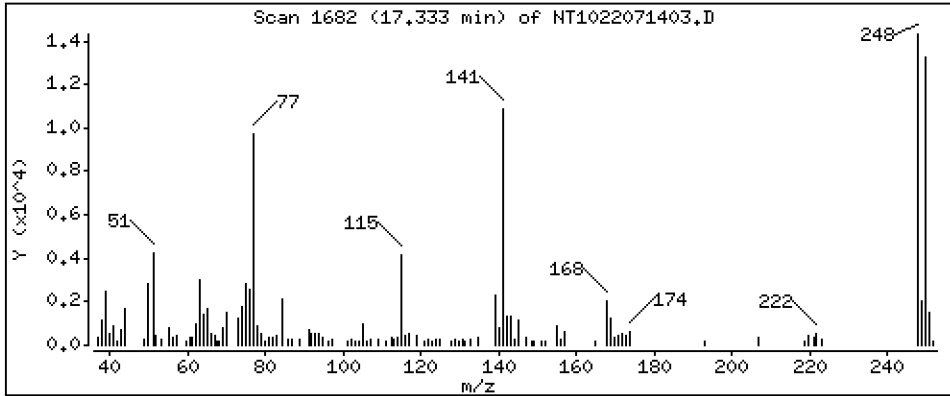
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,5777 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

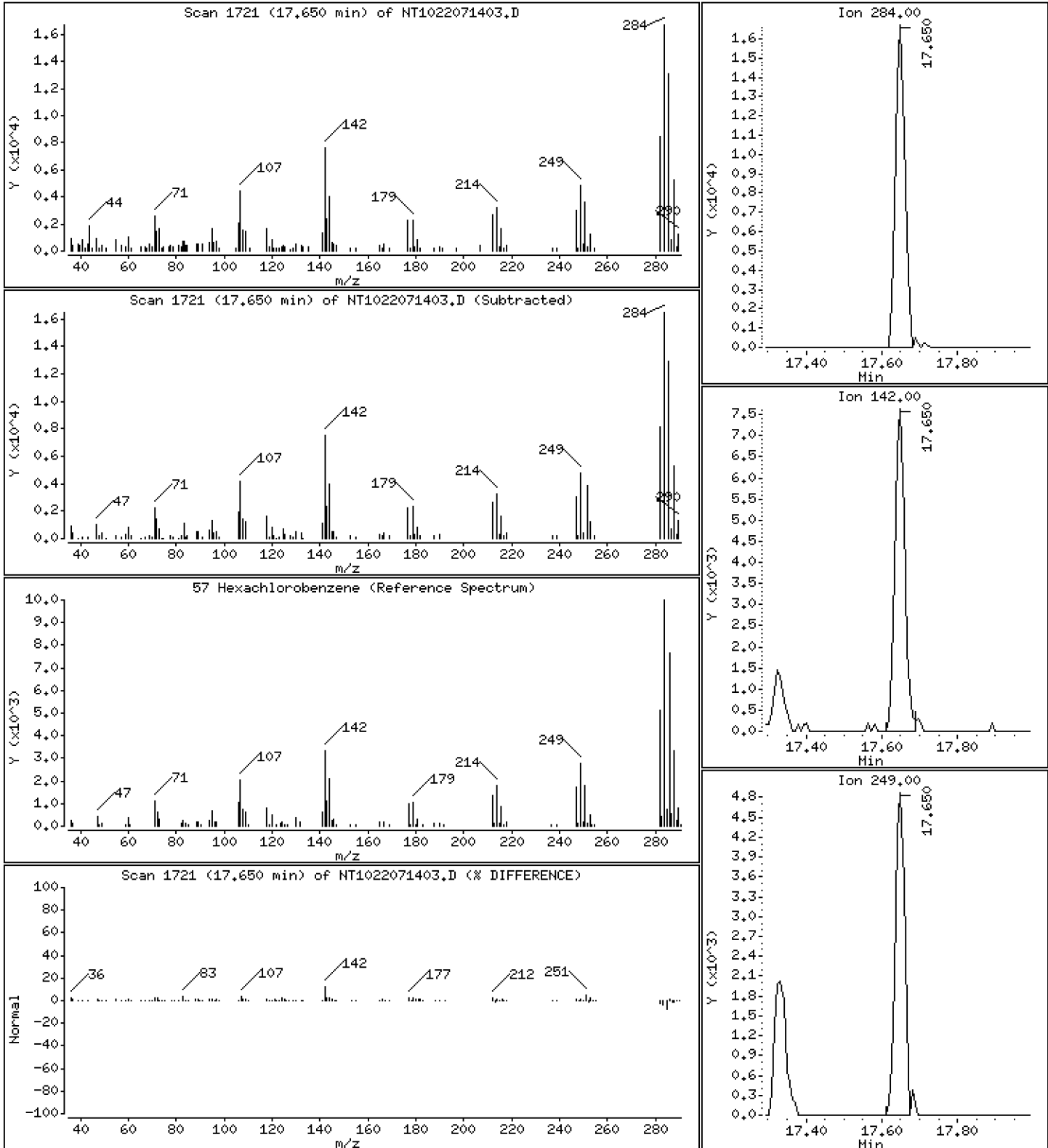
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,6249 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

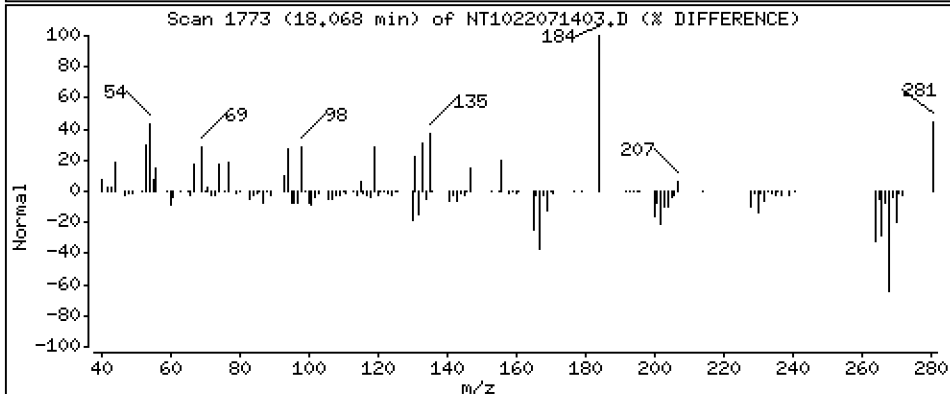
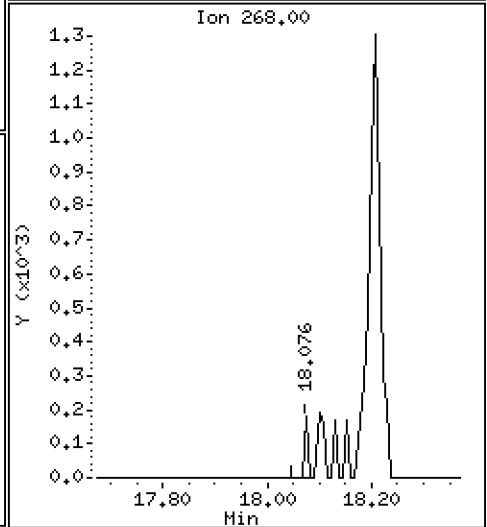
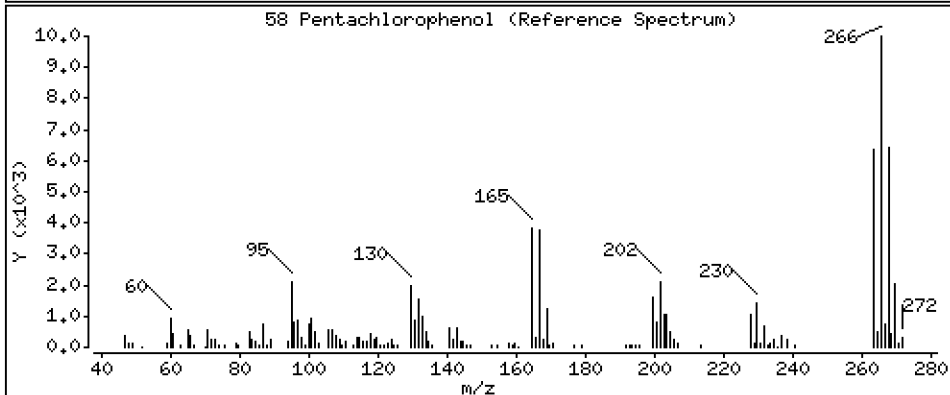
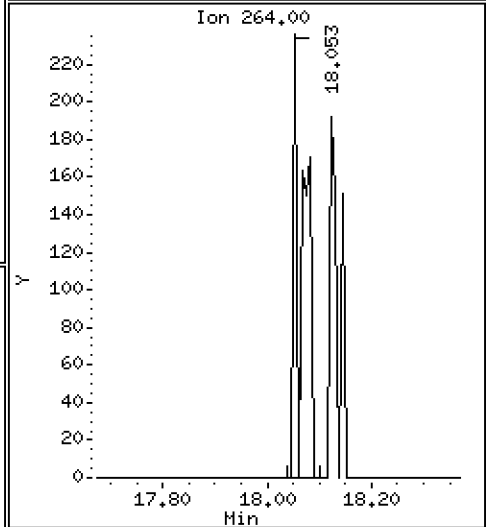
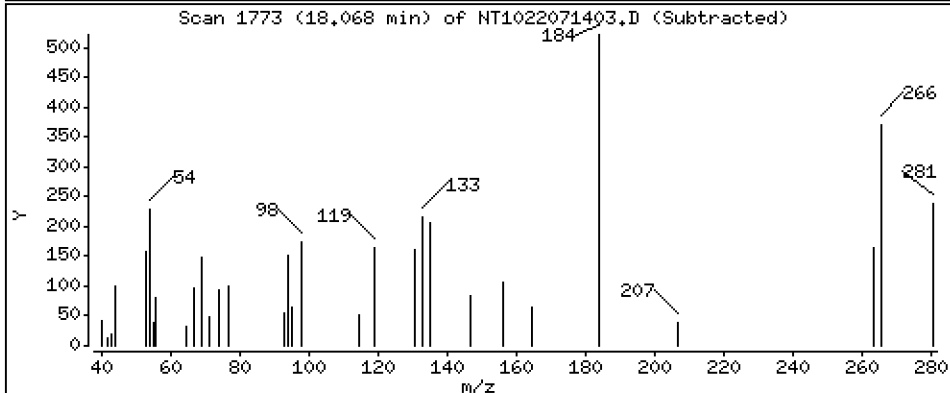
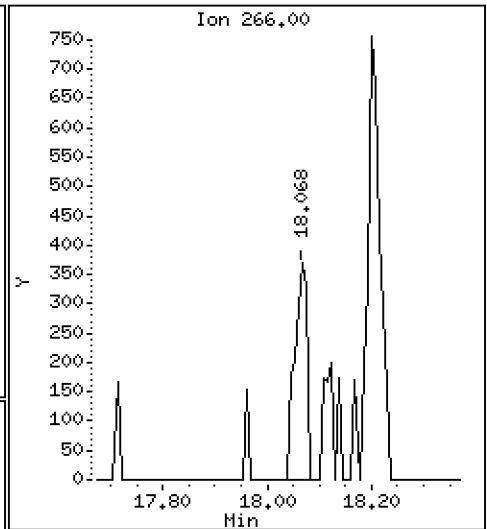
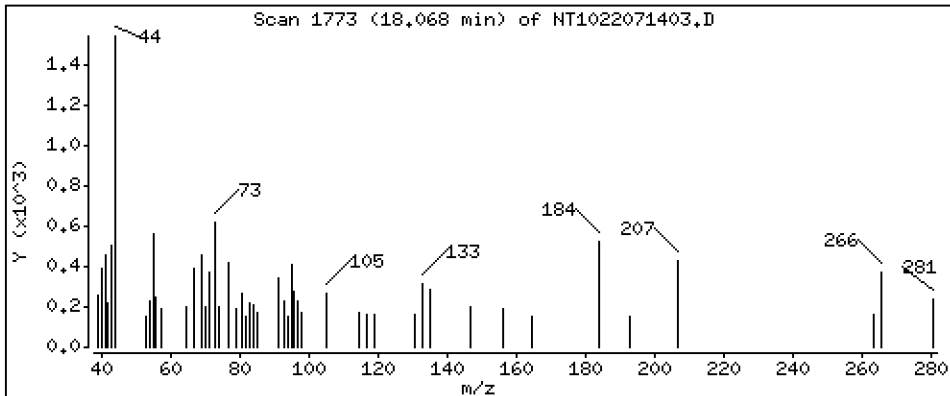
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,06782 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

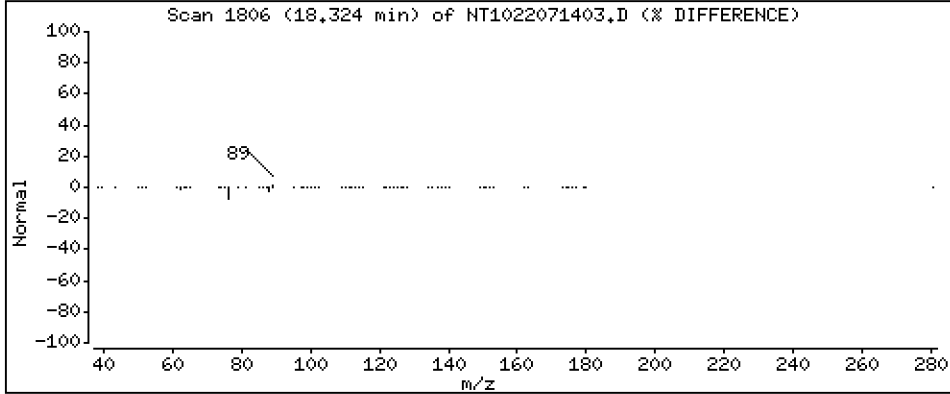
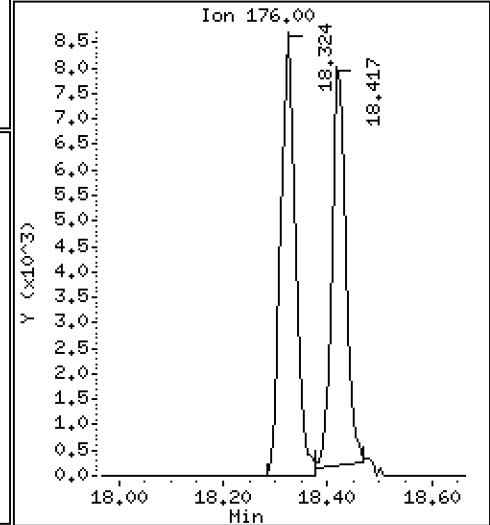
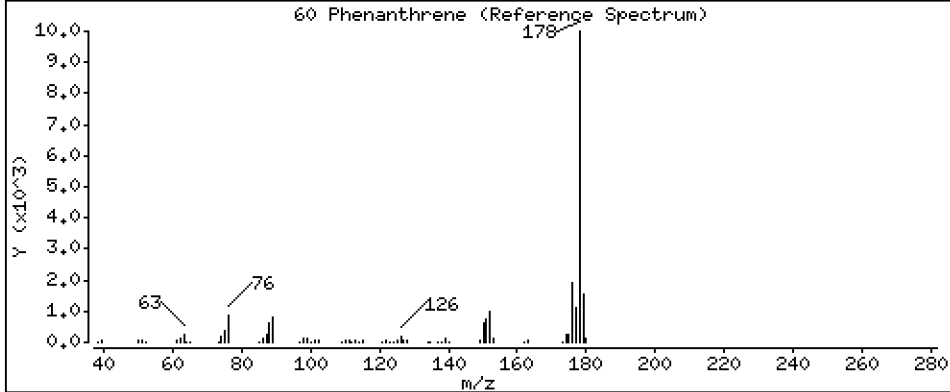
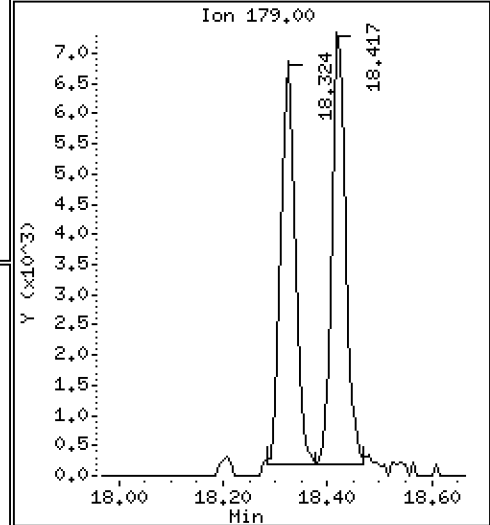
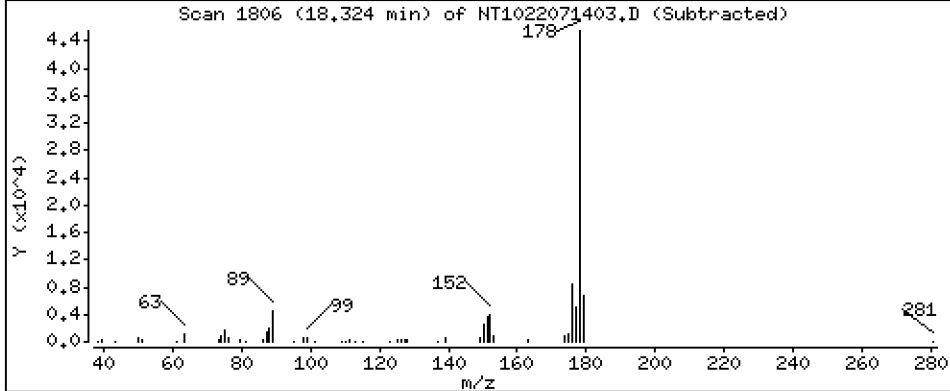
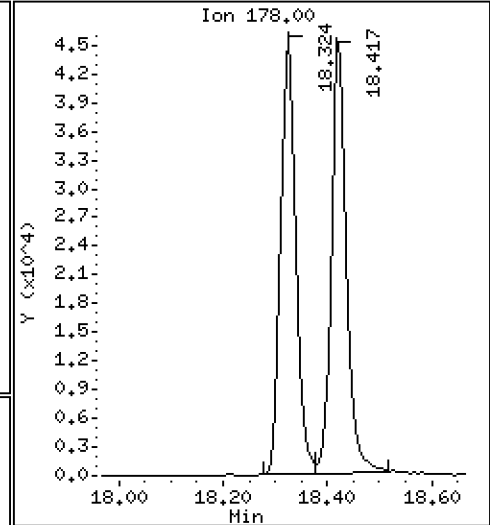
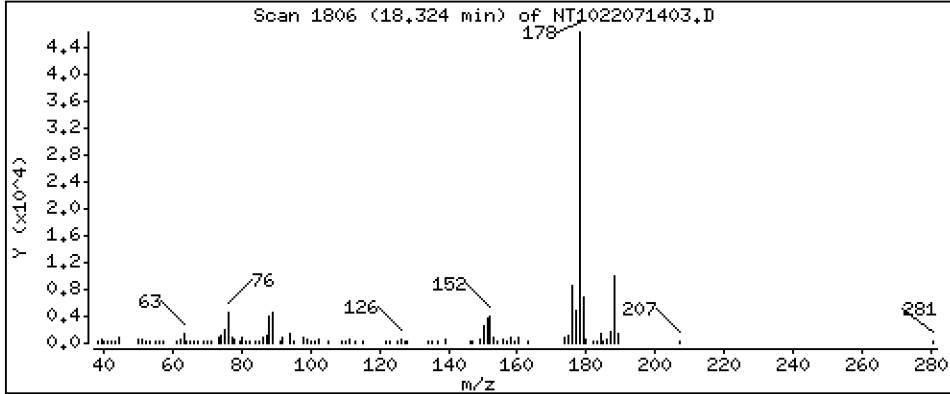
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5489 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

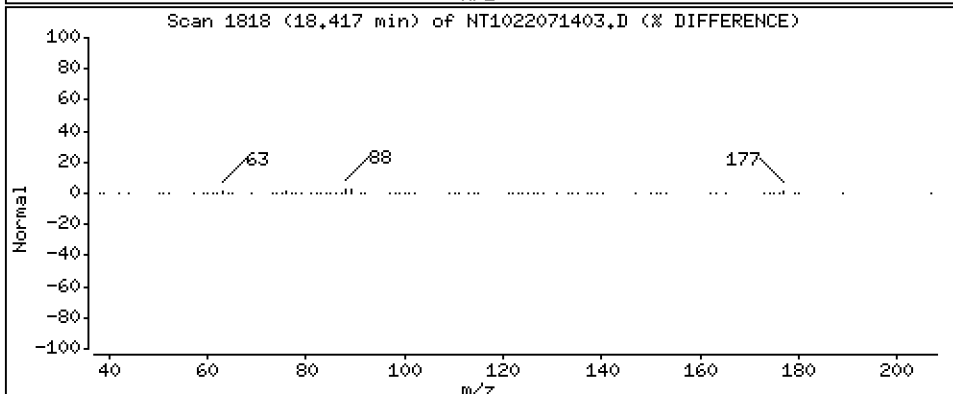
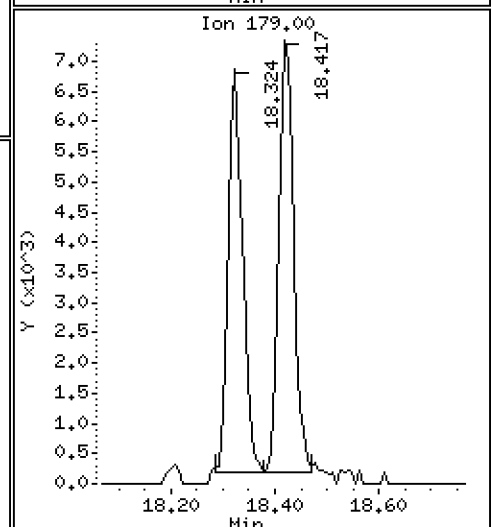
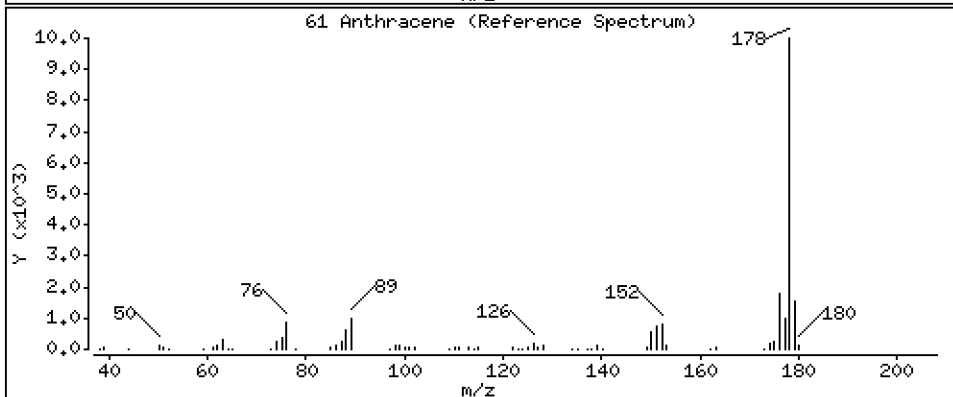
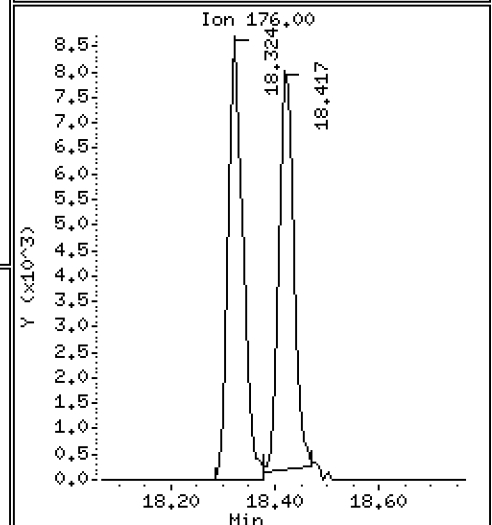
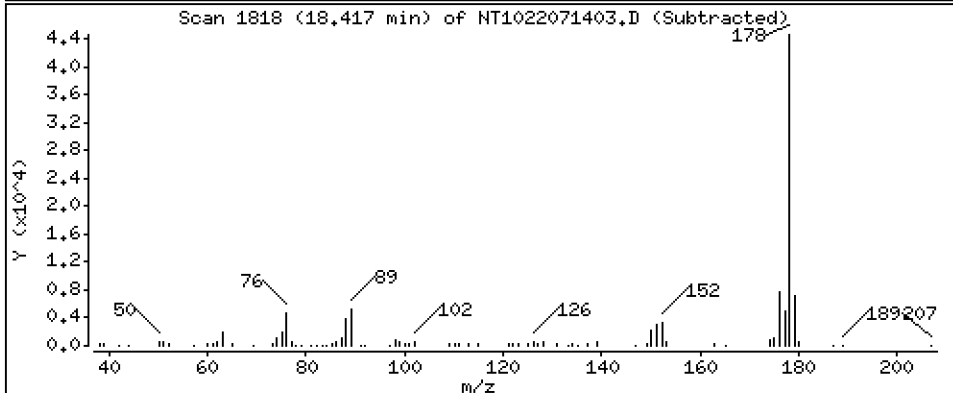
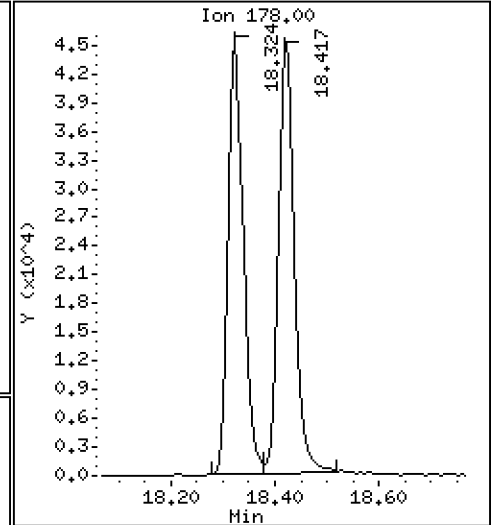
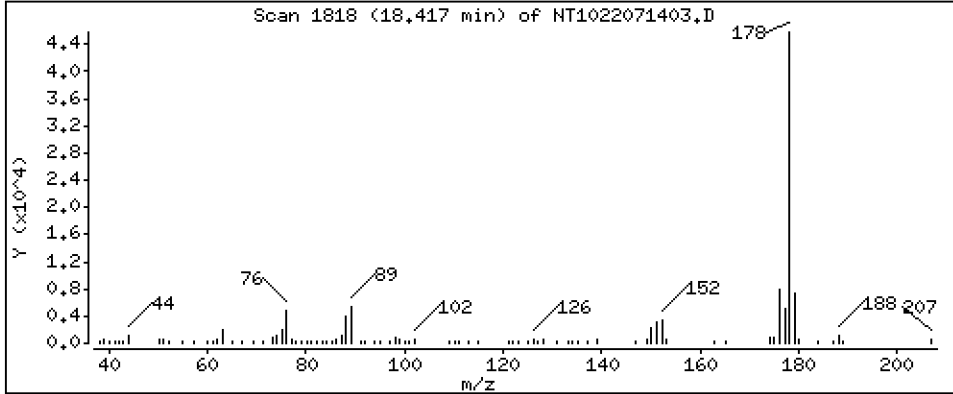
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5249 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

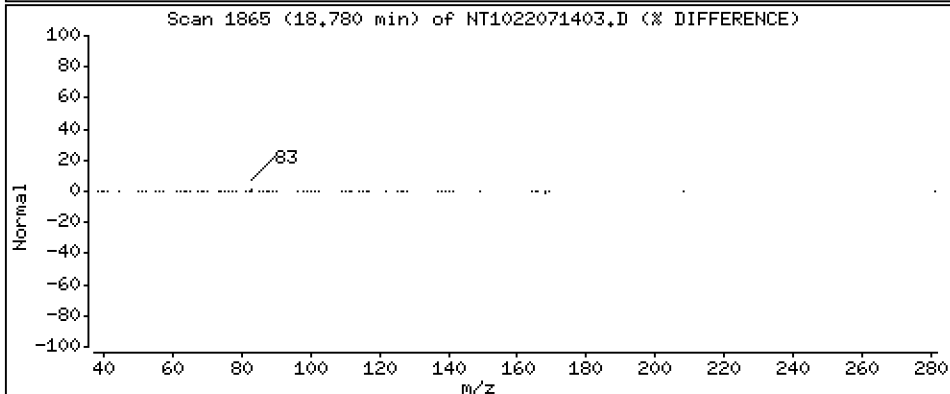
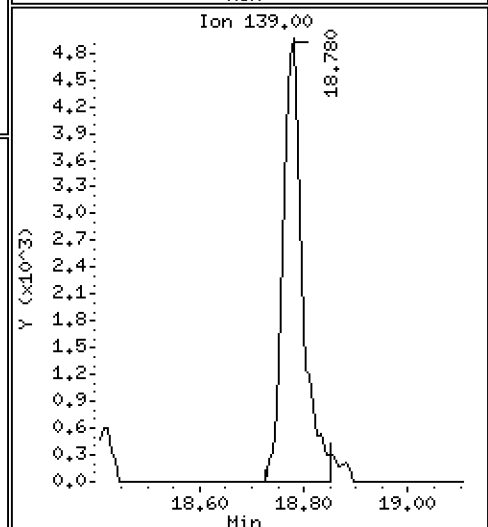
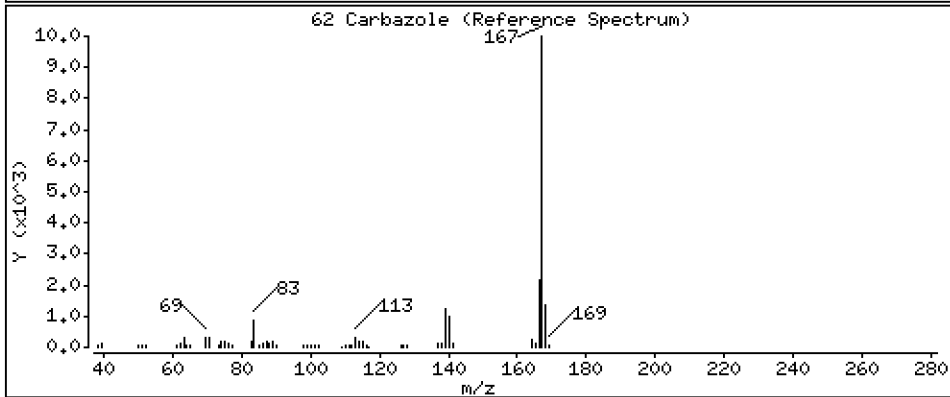
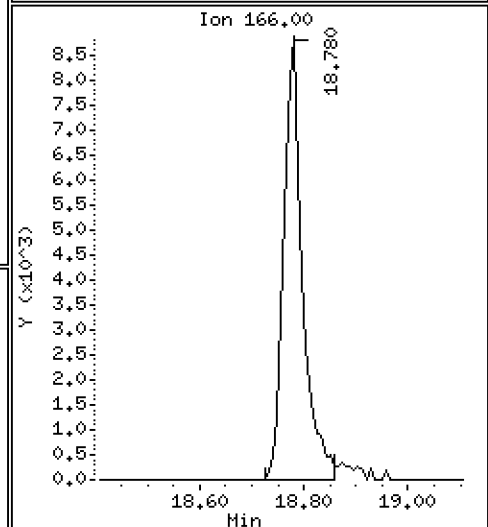
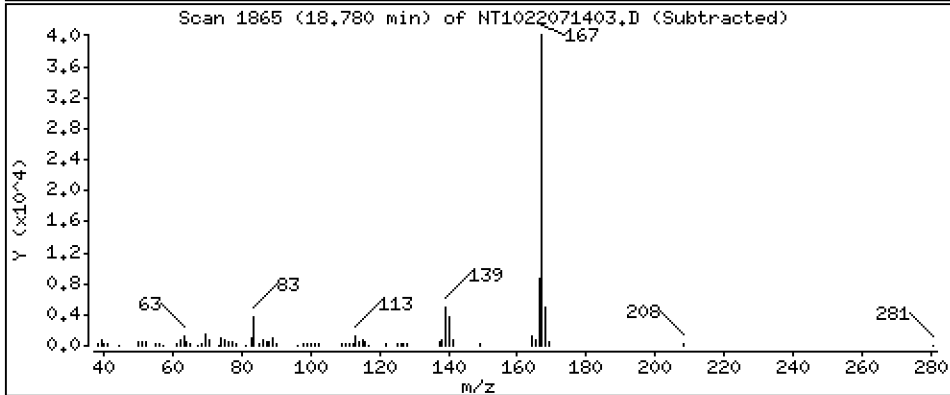
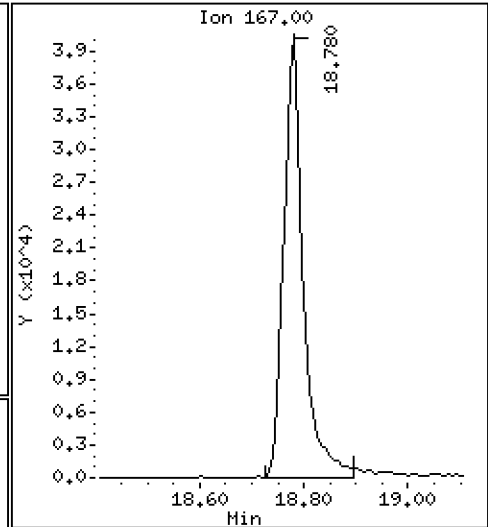
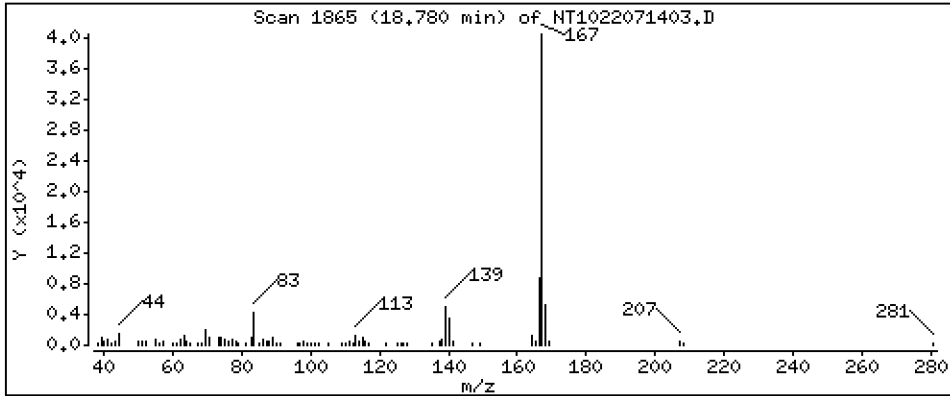
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,6446 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

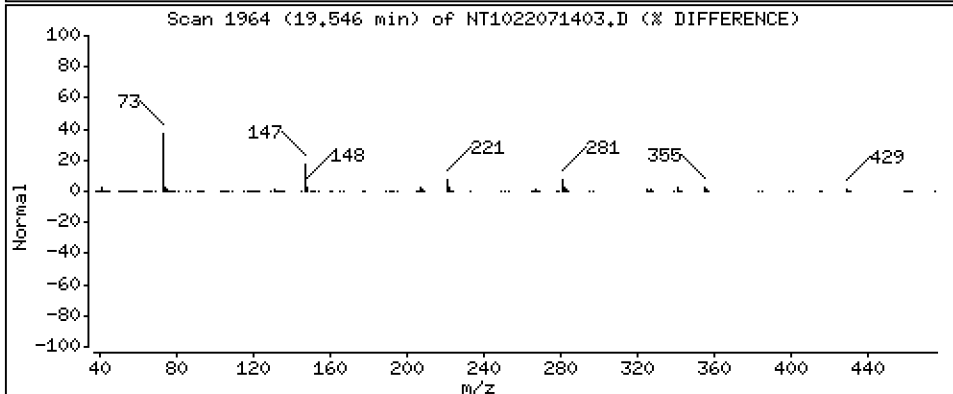
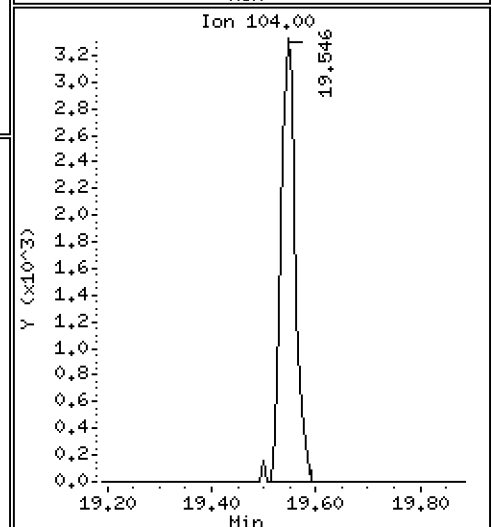
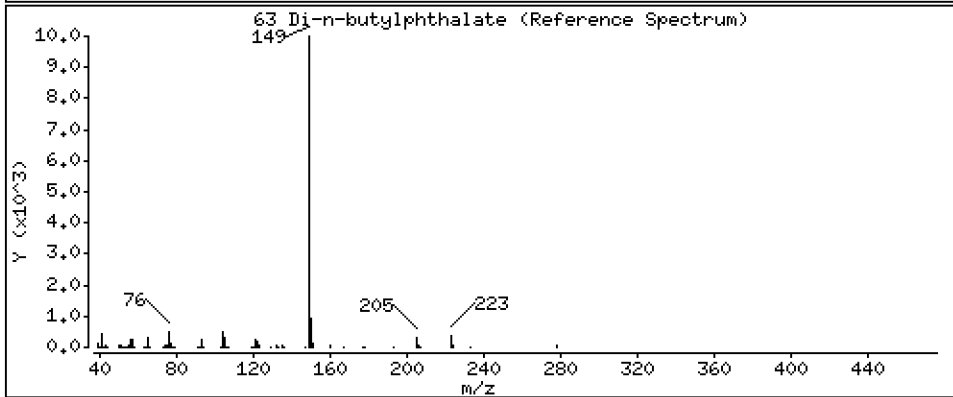
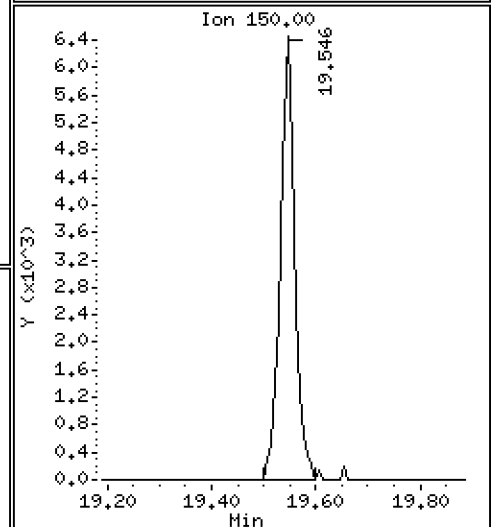
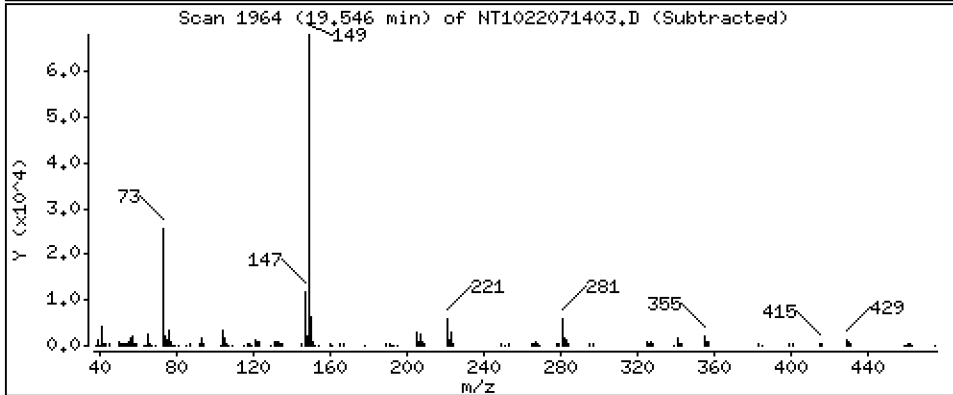
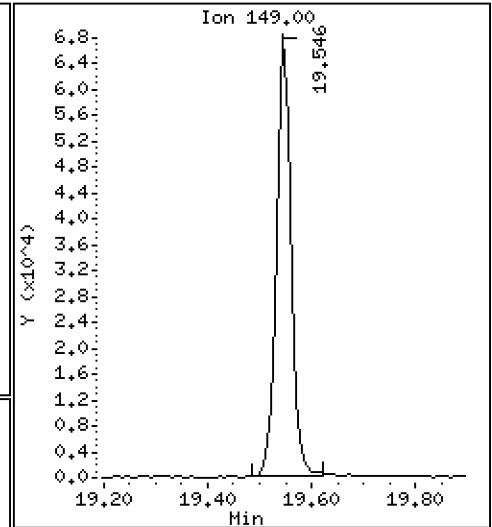
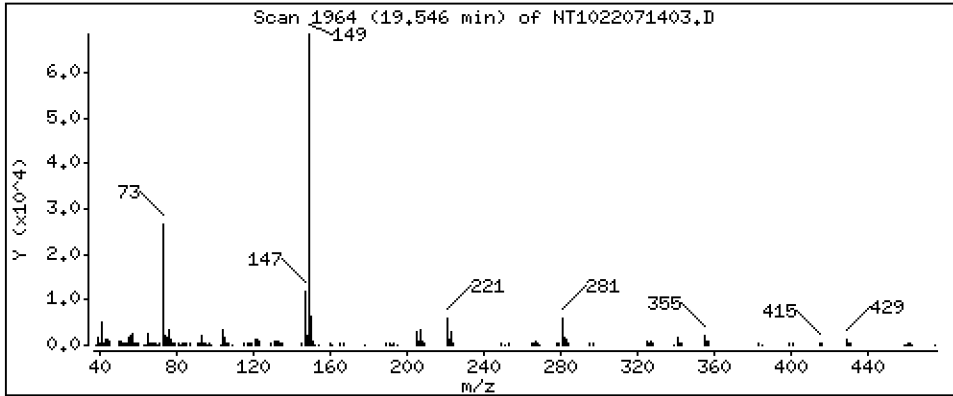
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,5142 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

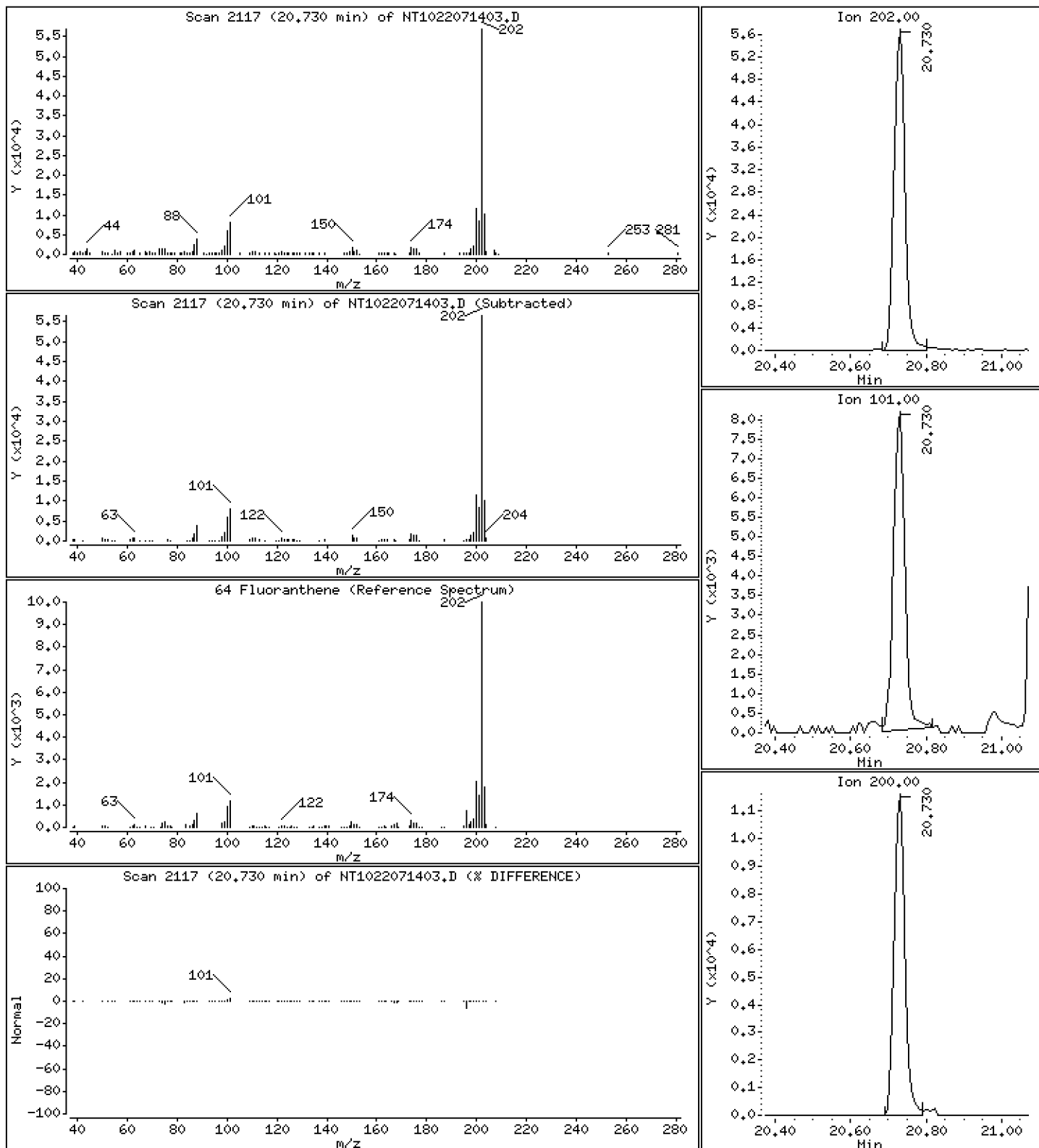
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,8247 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

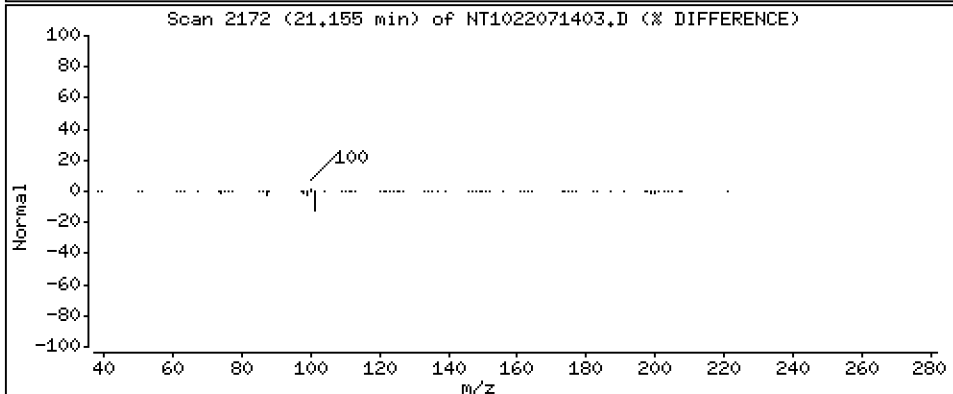
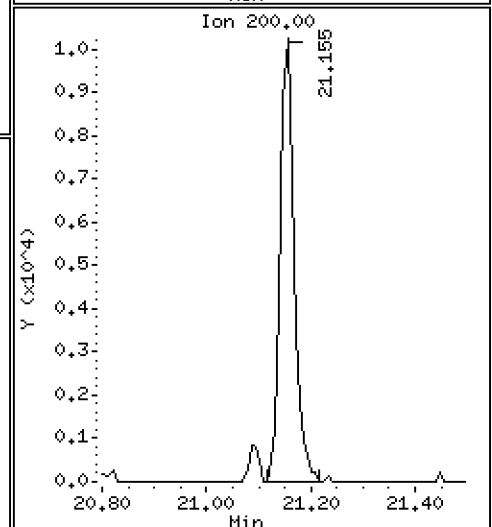
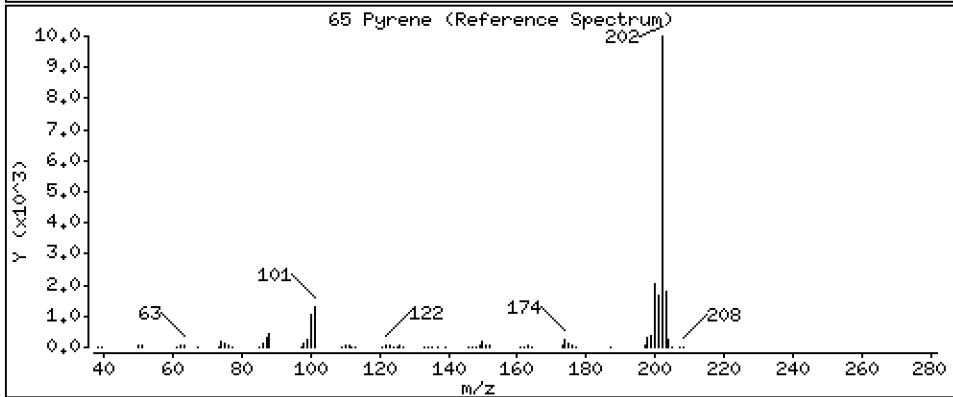
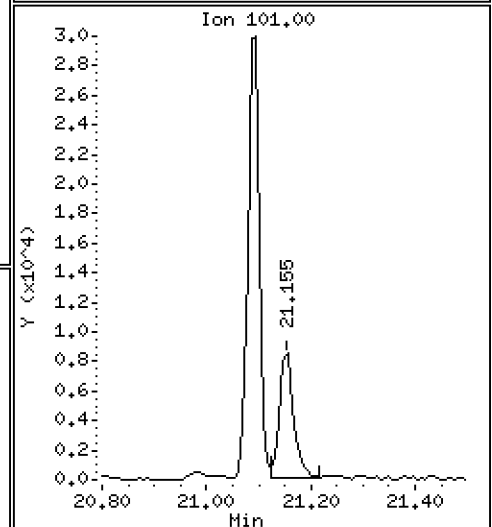
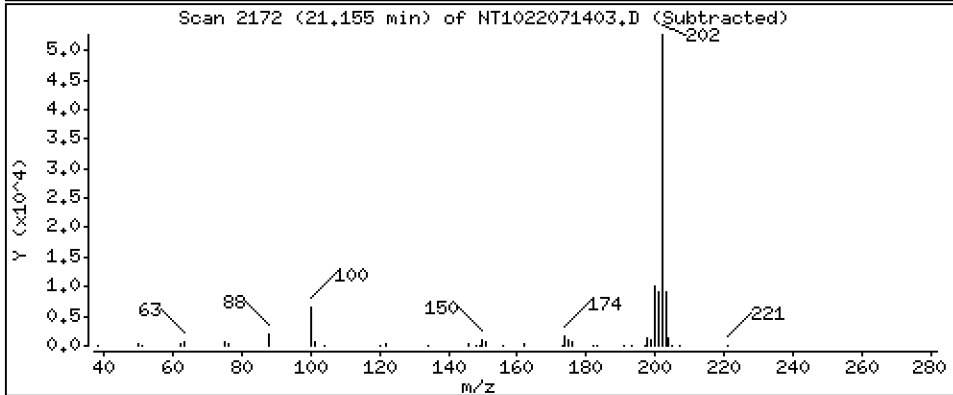
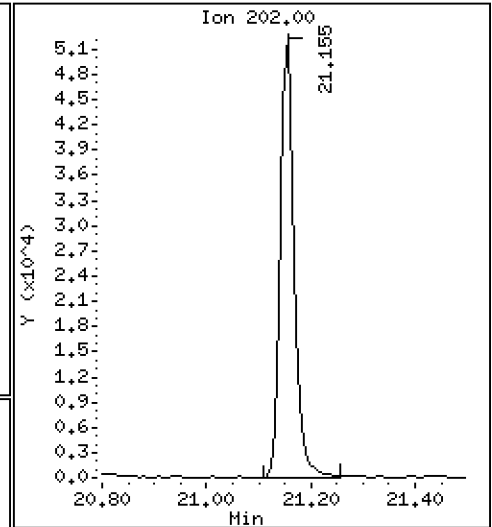
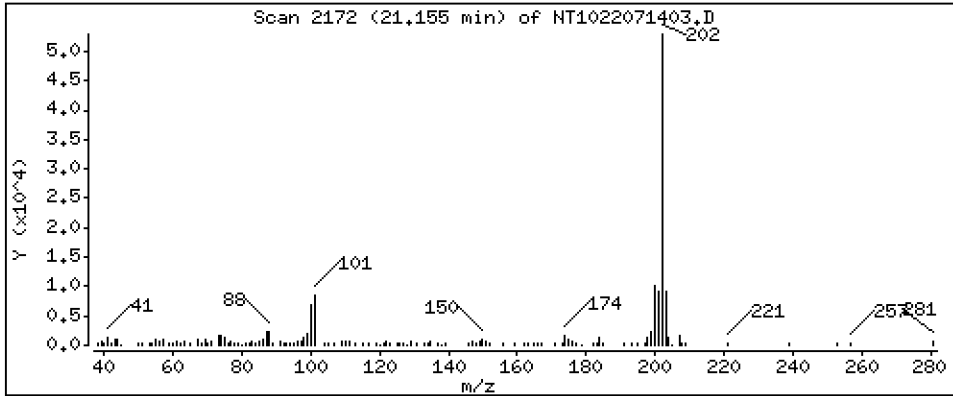
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 0.7816 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

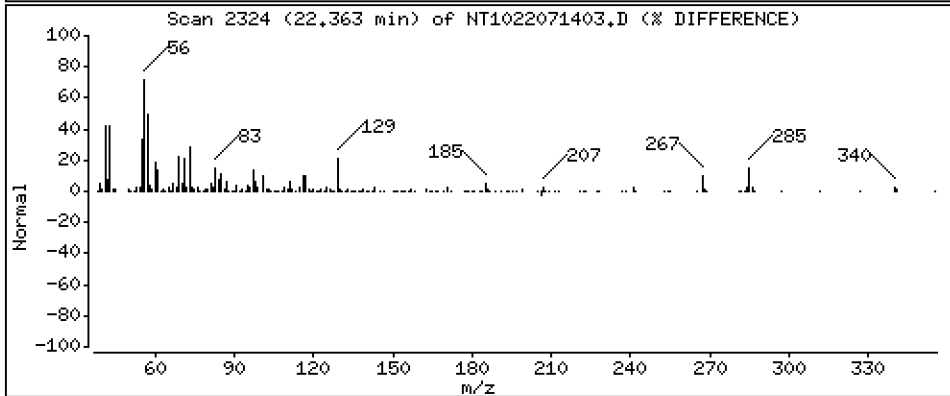
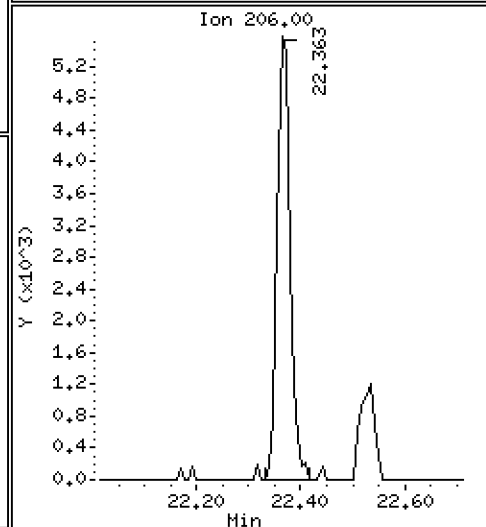
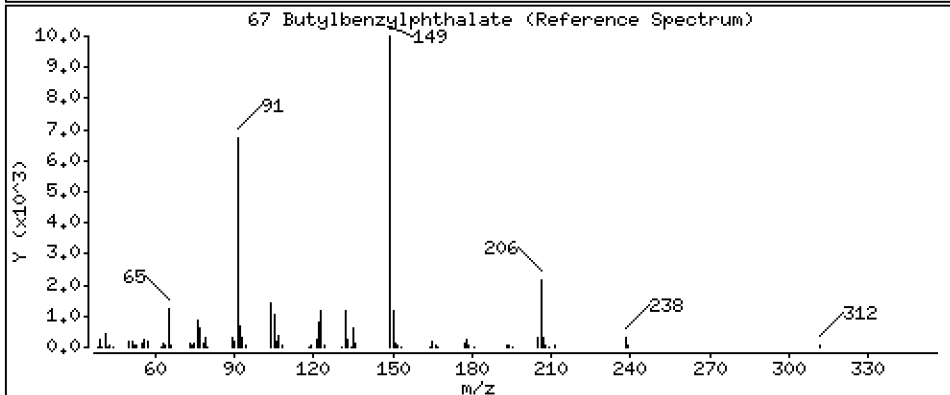
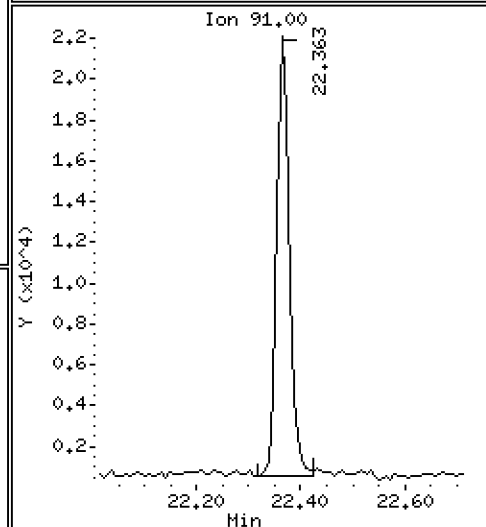
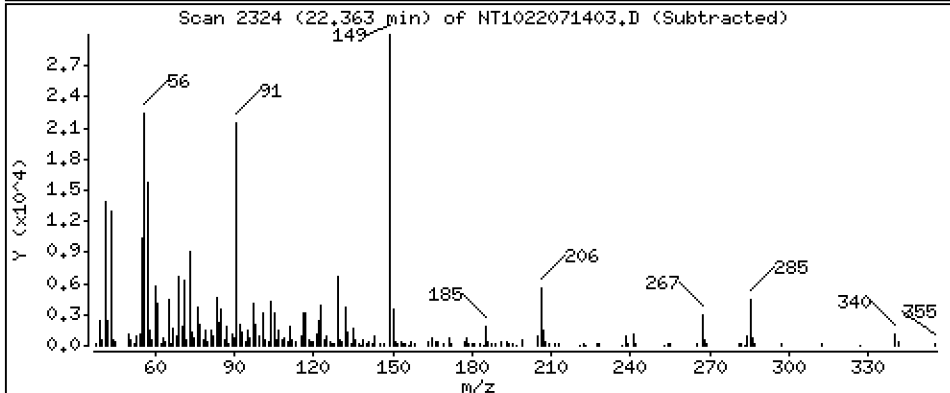
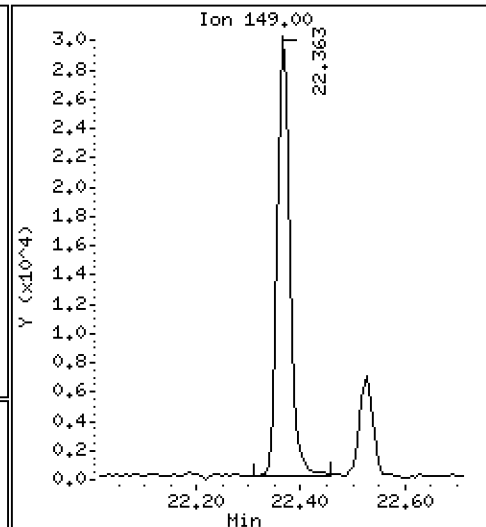
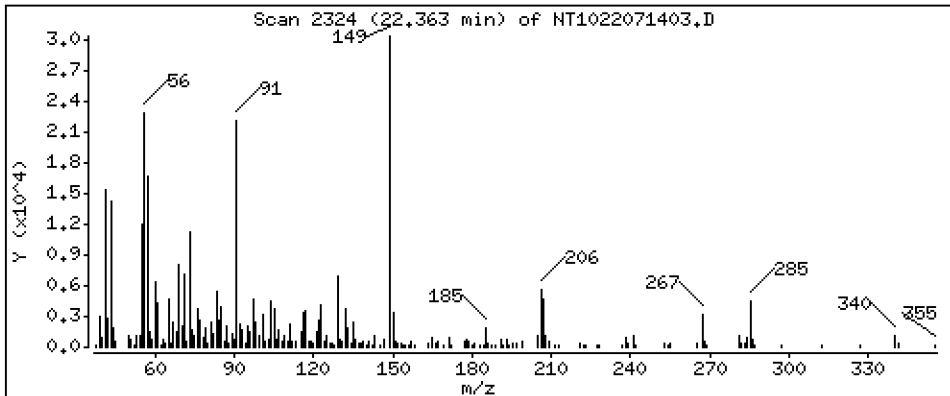
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 1,276 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

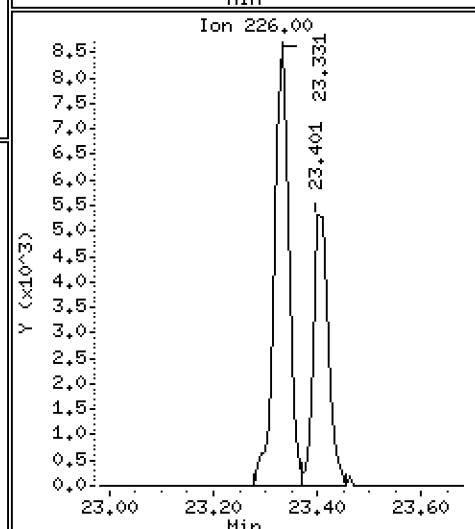
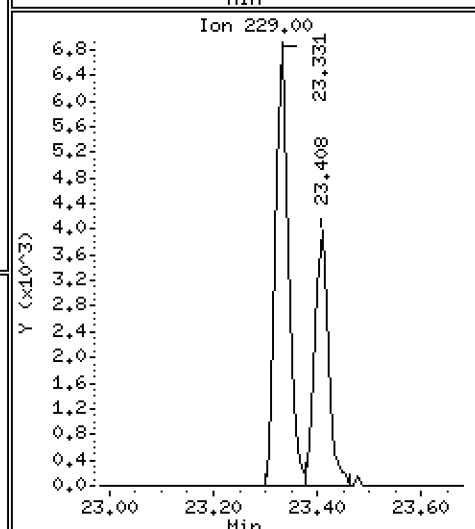
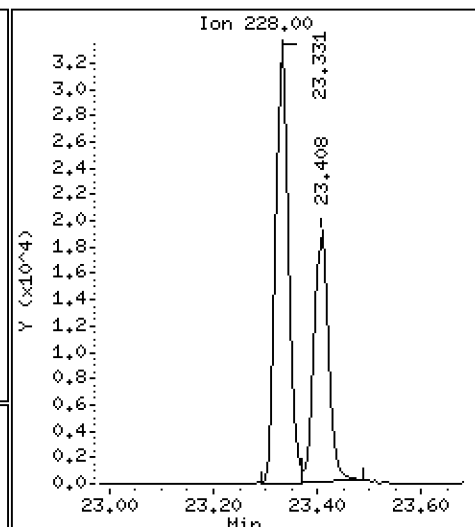
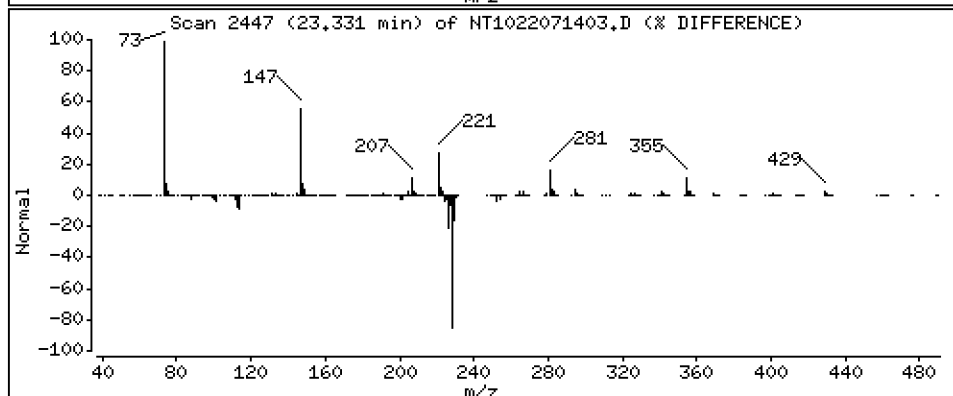
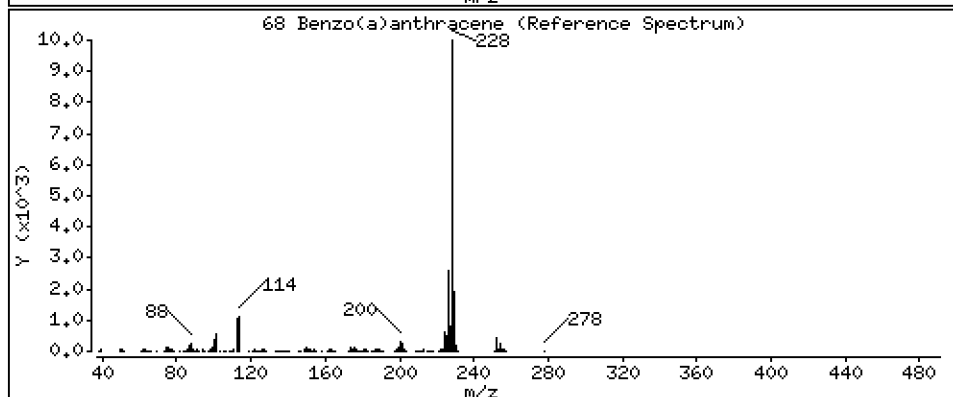
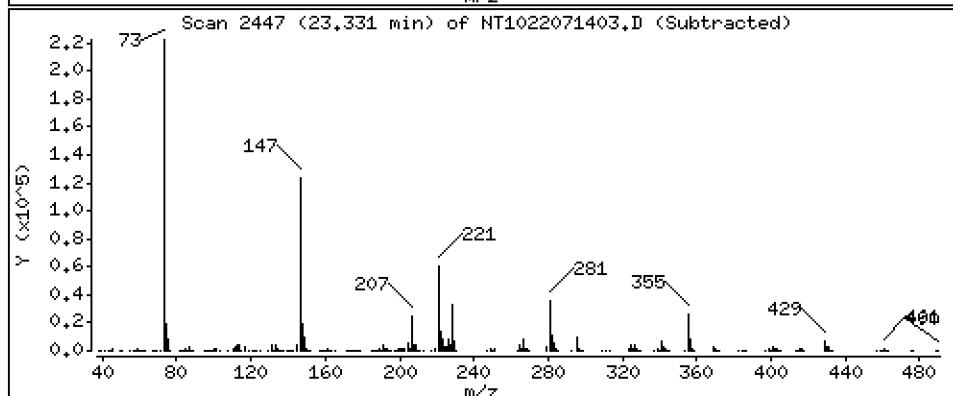
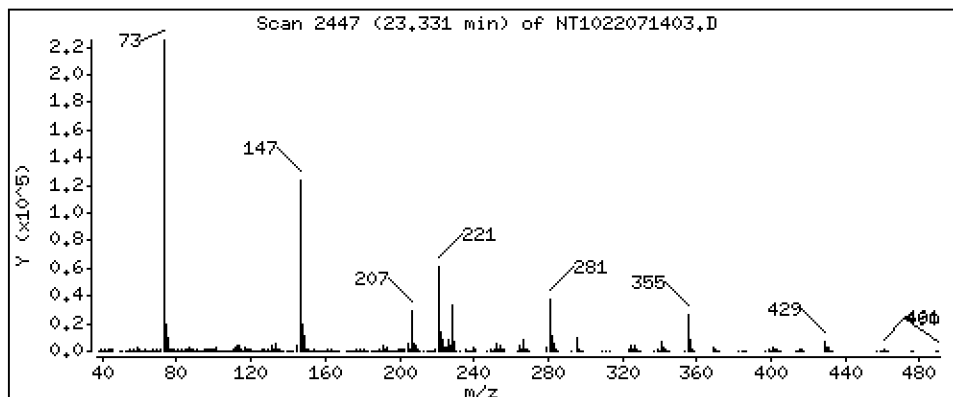
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,6861 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

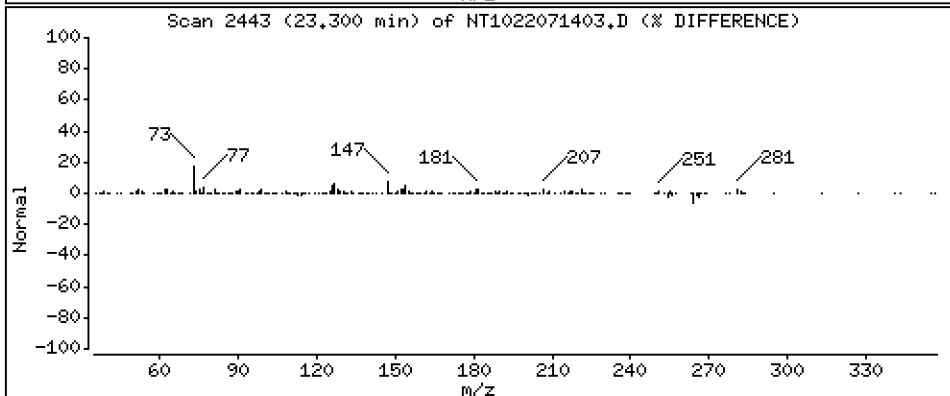
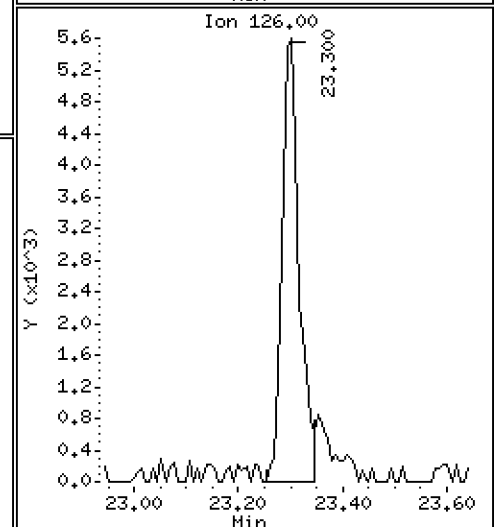
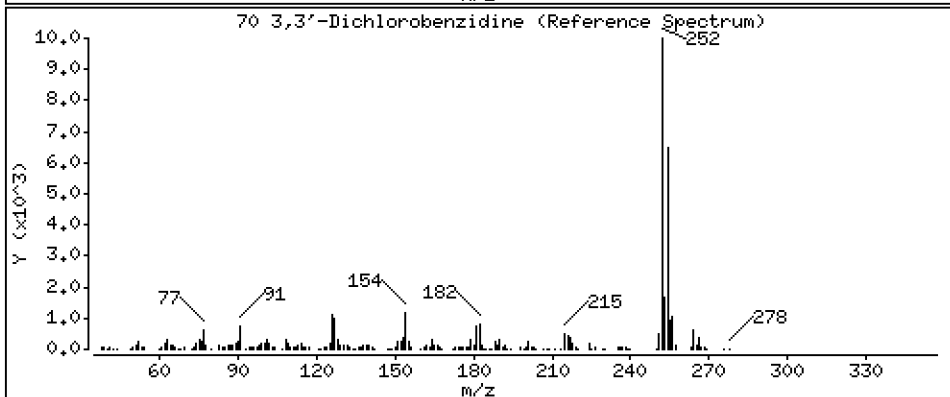
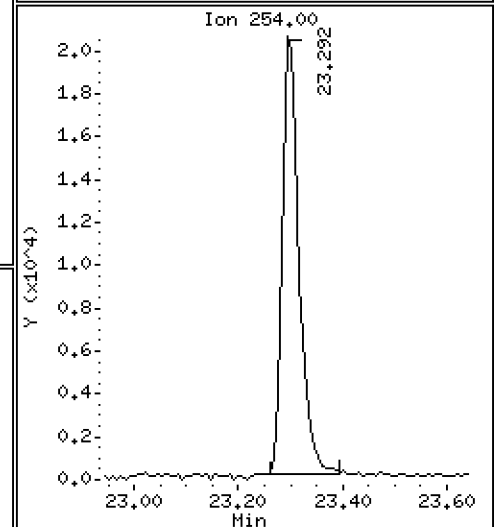
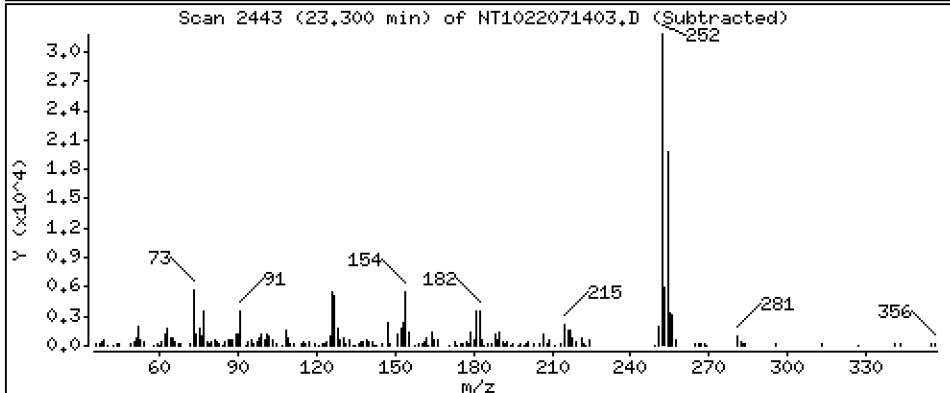
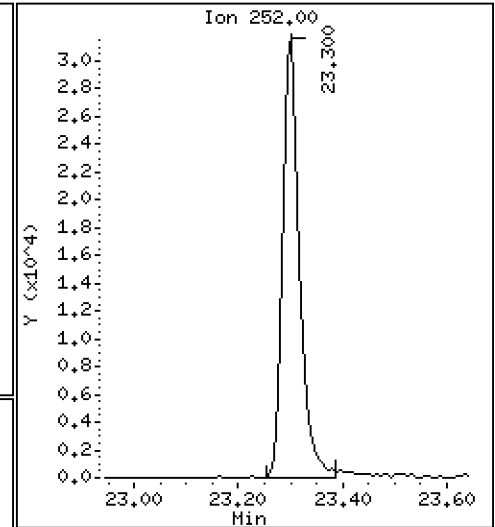
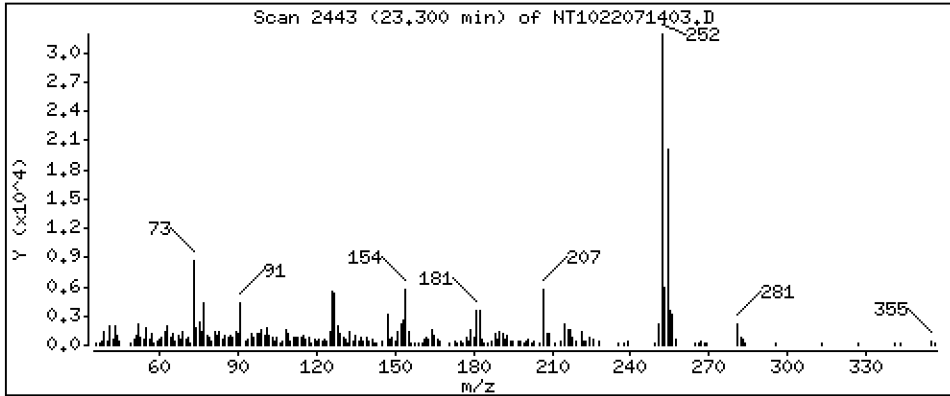
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 2,680 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

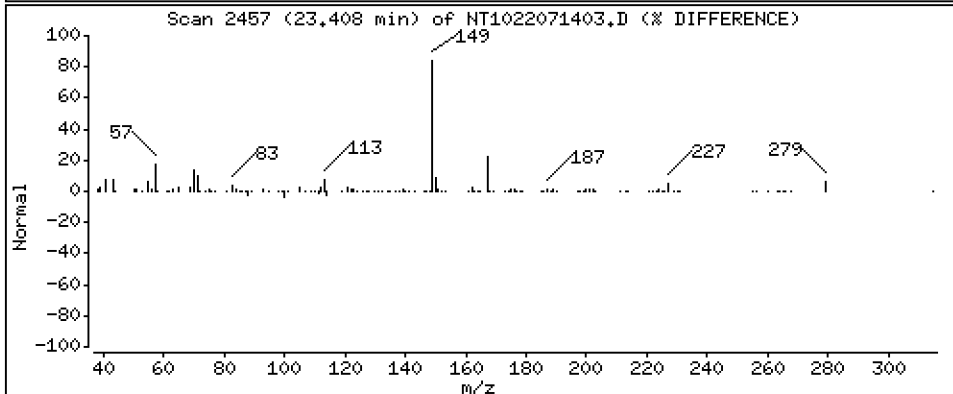
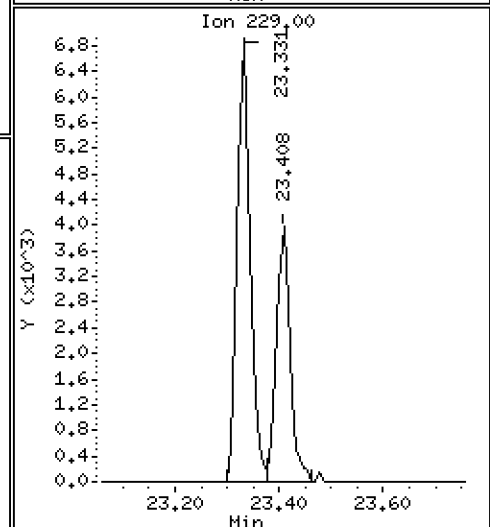
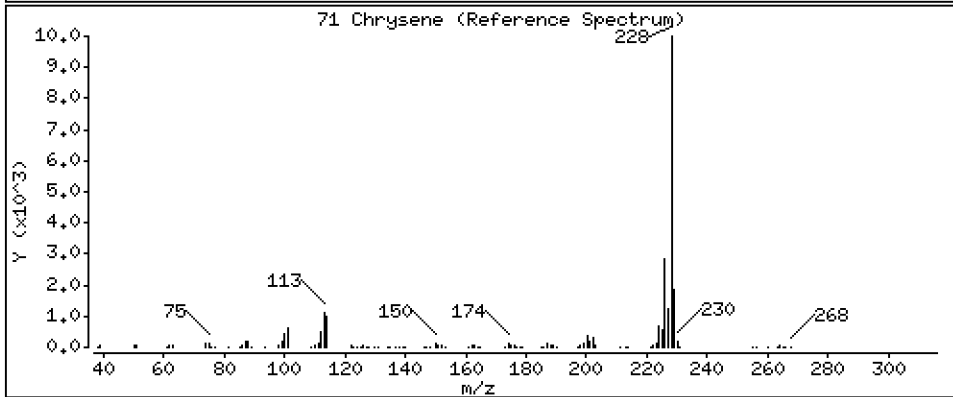
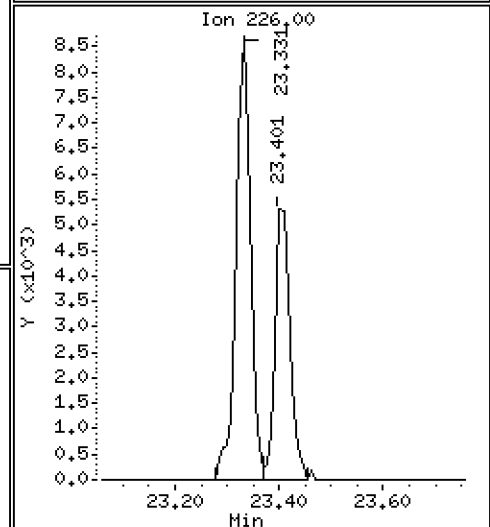
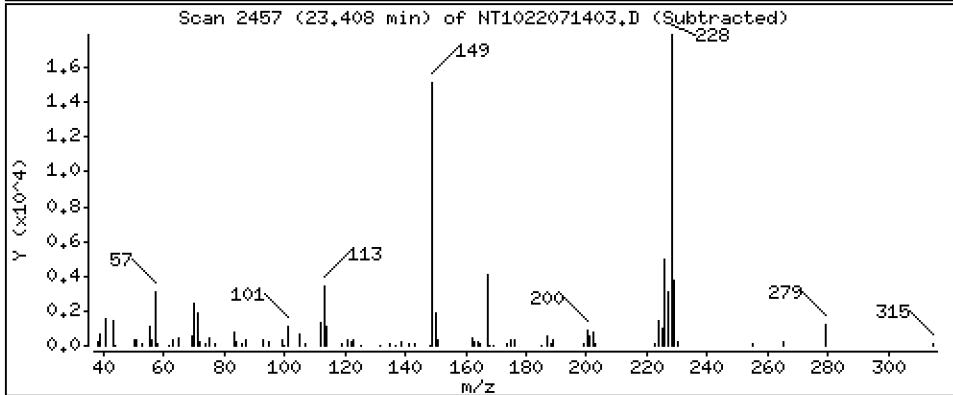
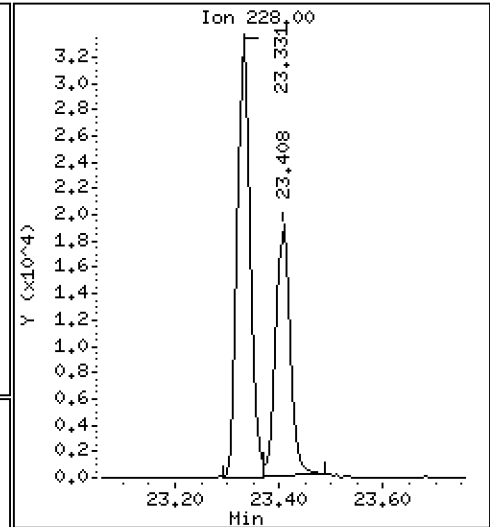
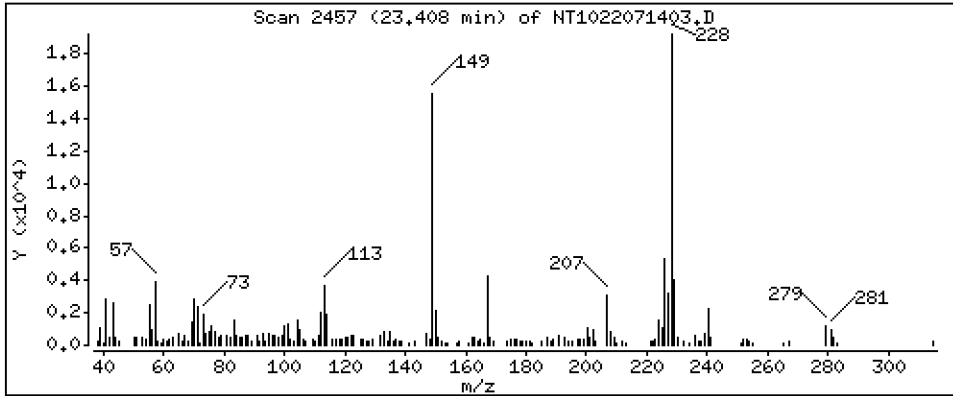
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,6664 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

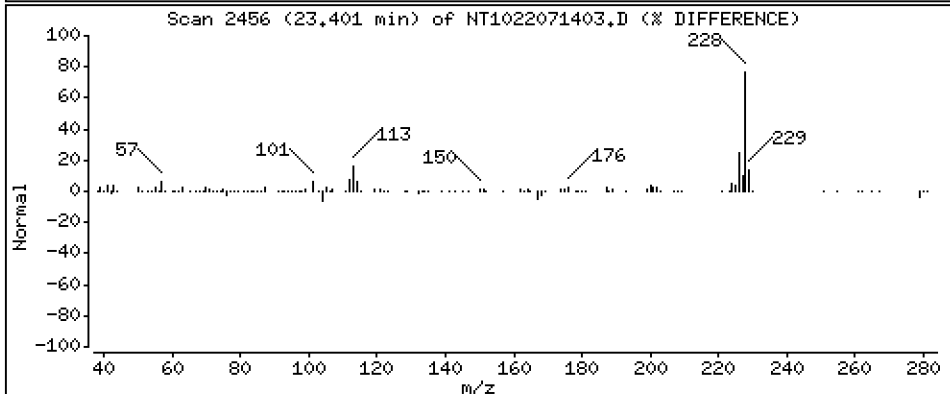
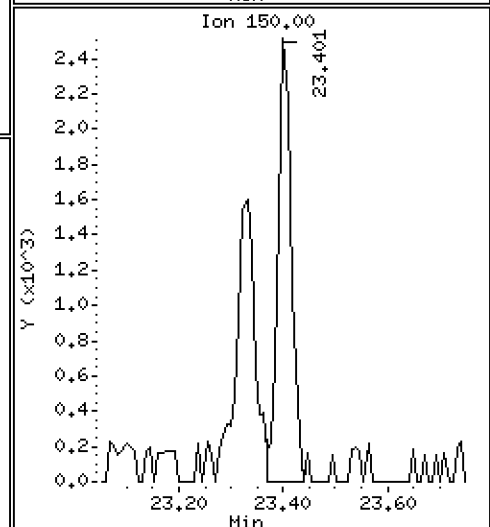
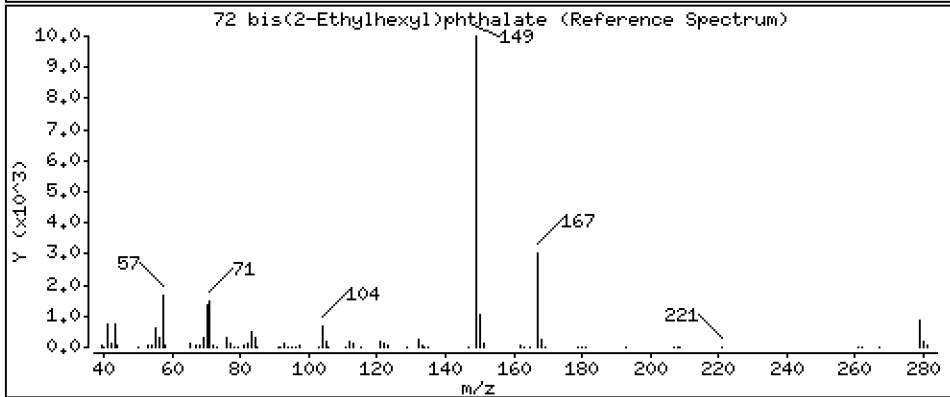
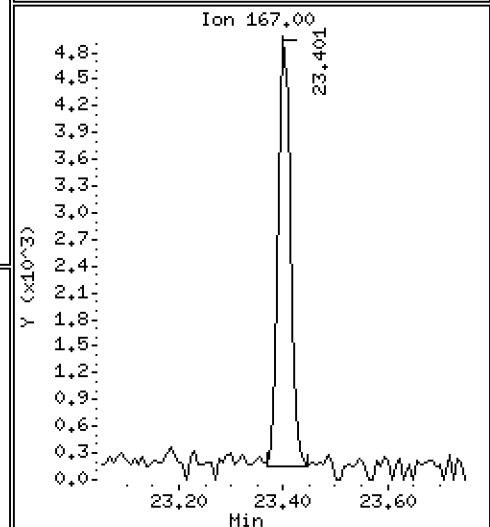
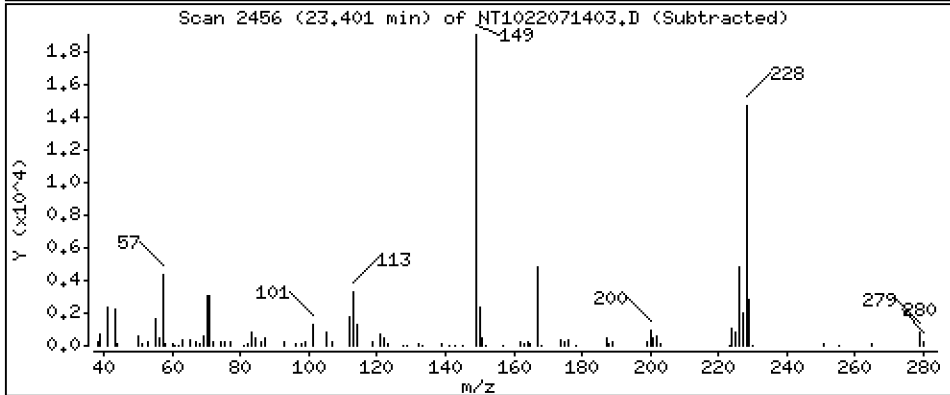
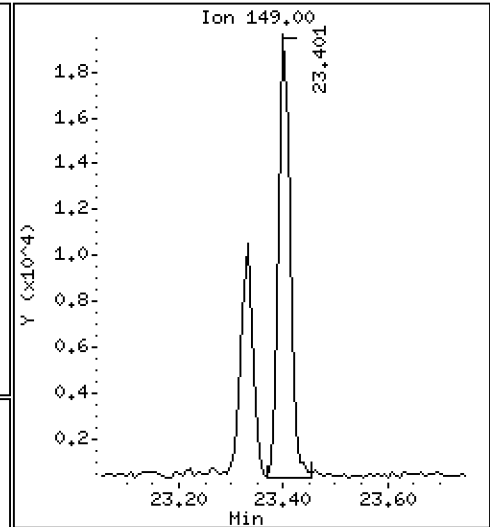
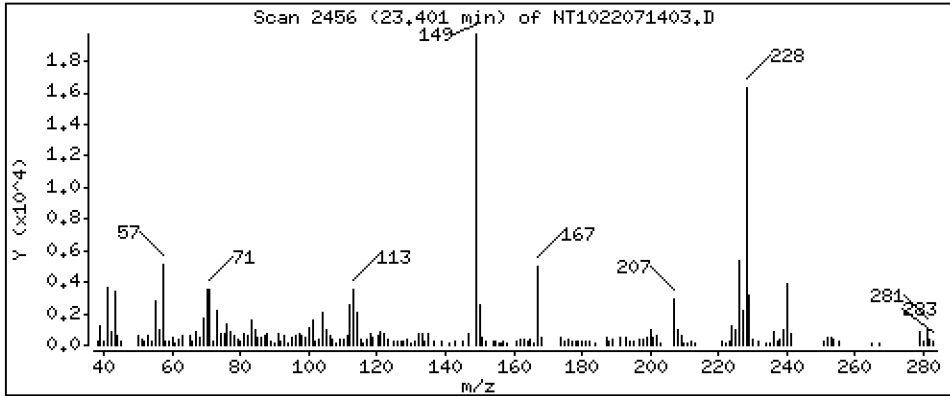
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,6718 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

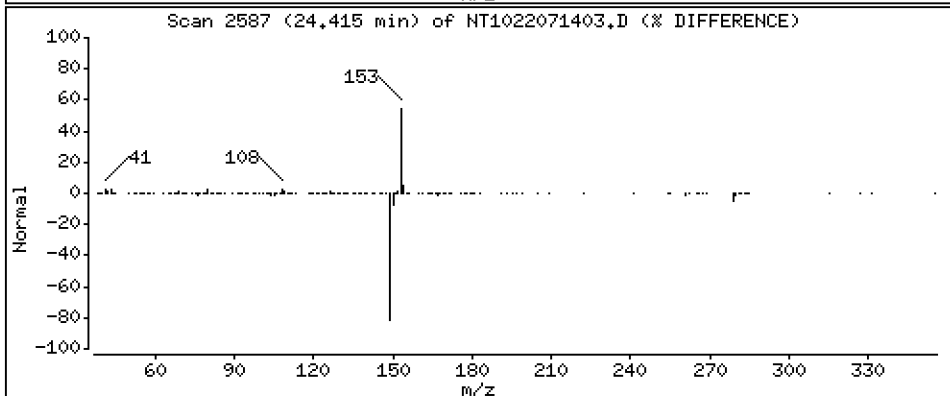
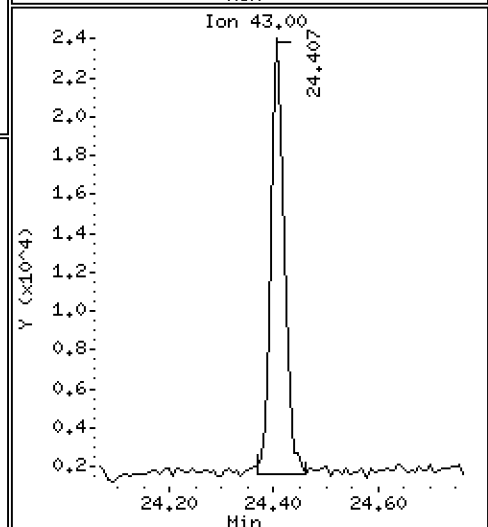
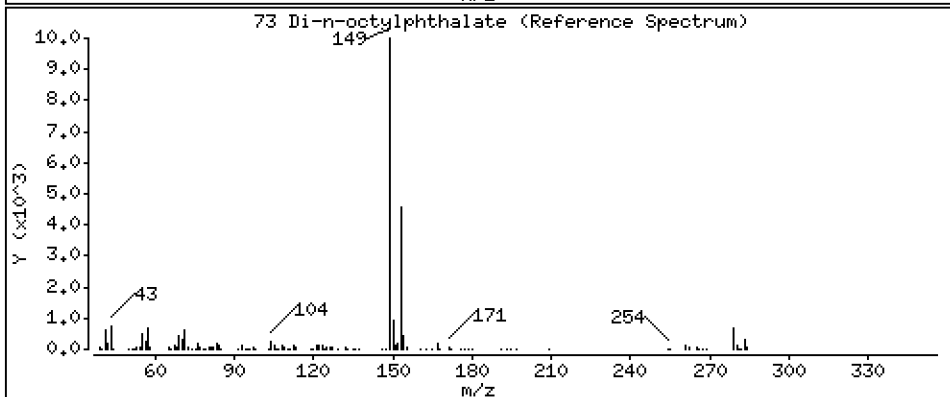
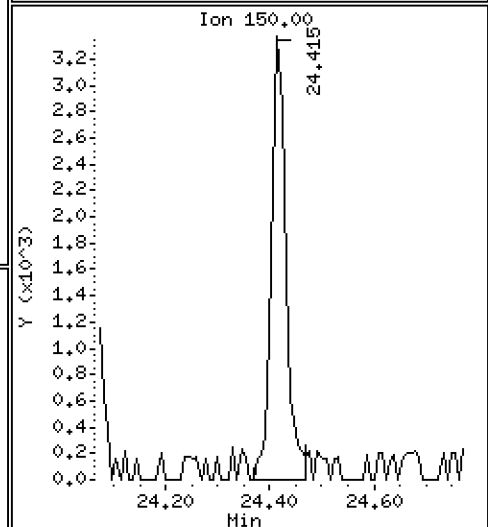
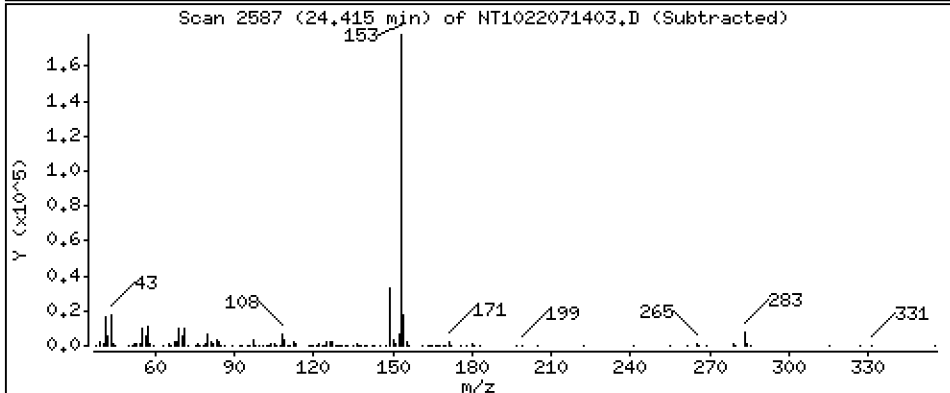
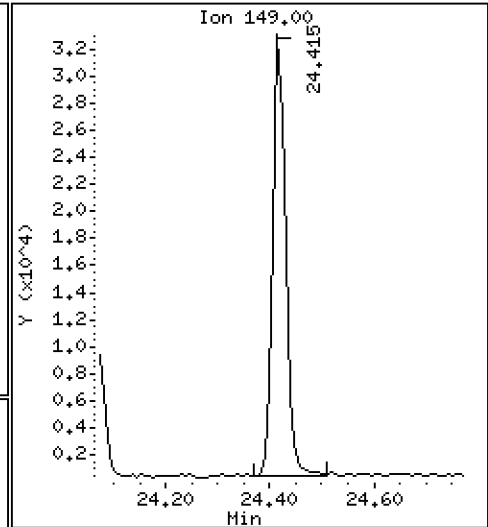
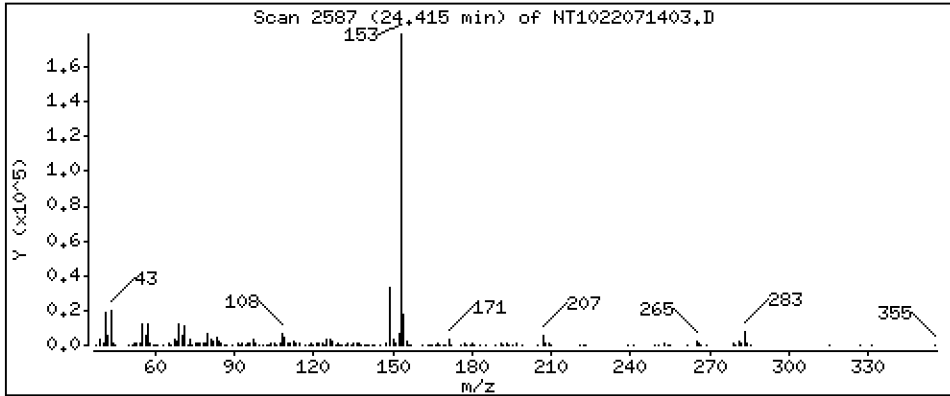
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,6192 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

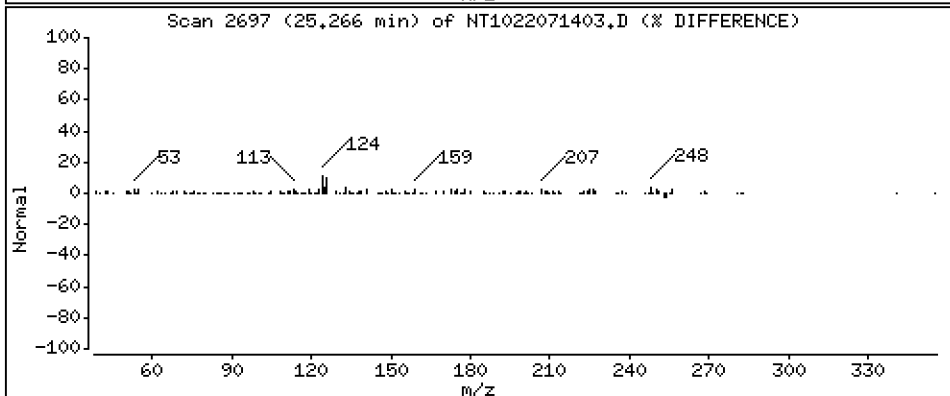
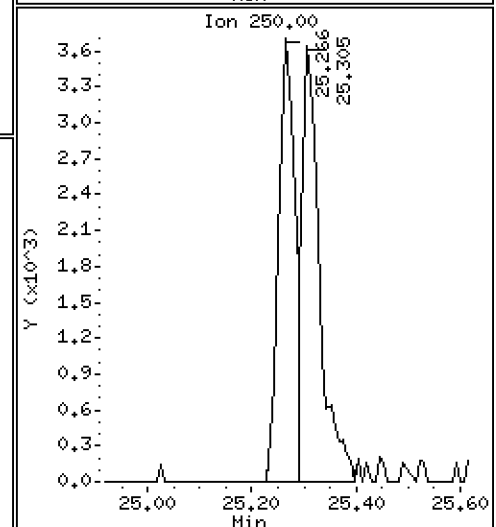
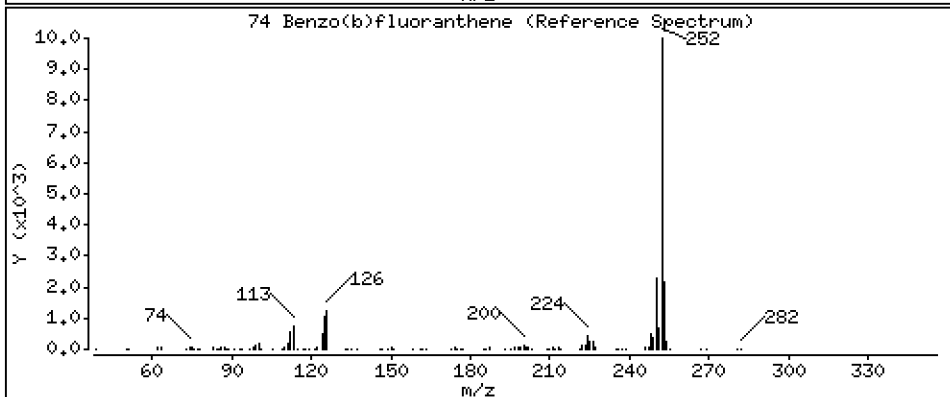
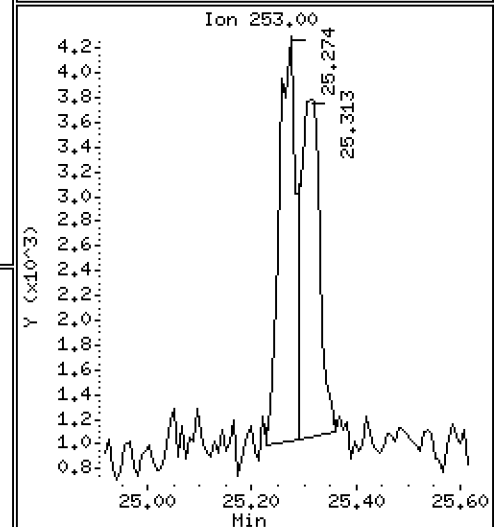
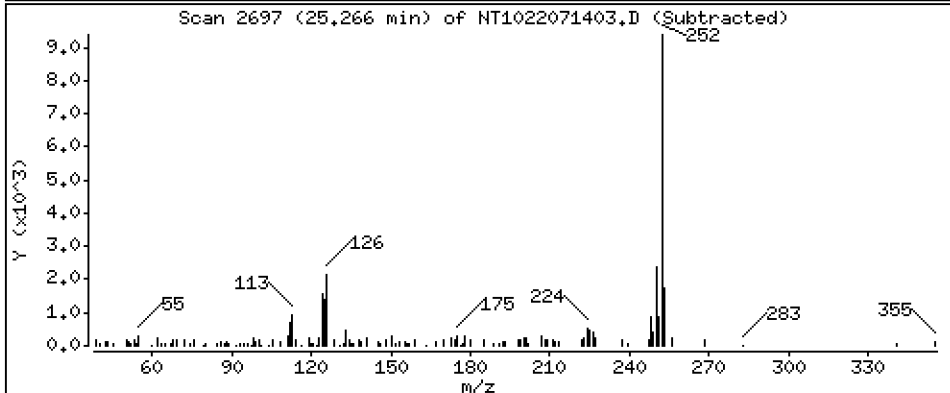
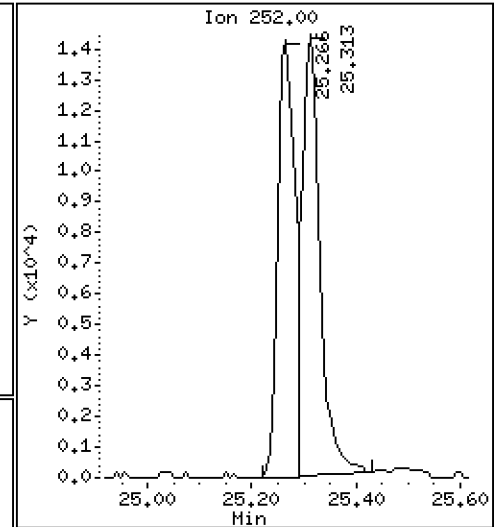
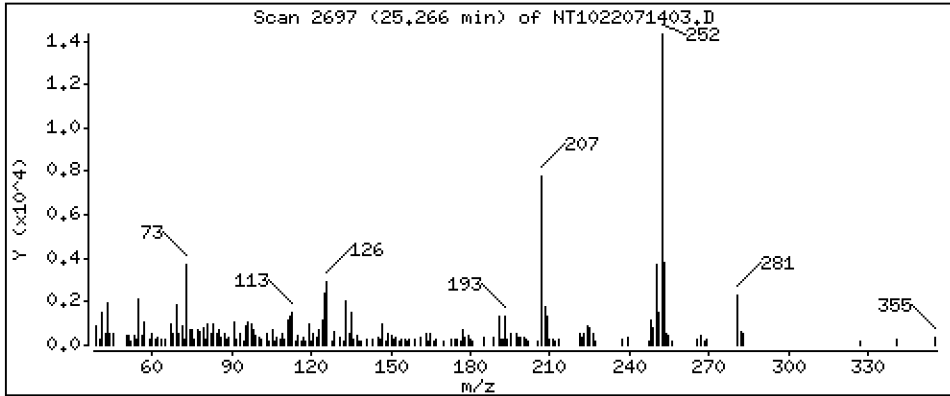
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,4809 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

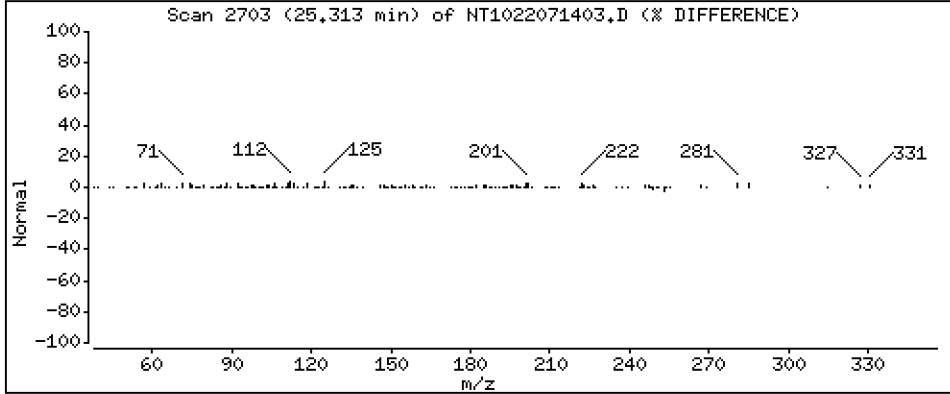
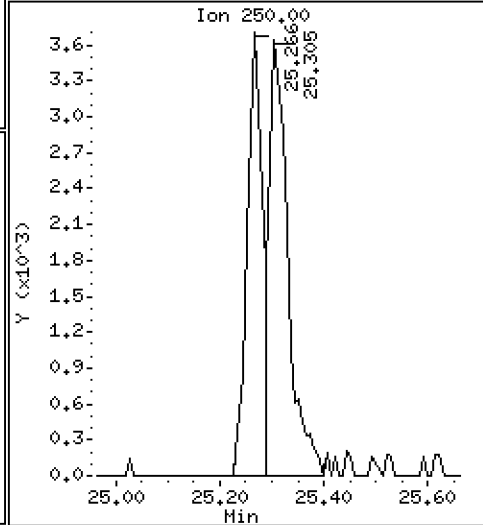
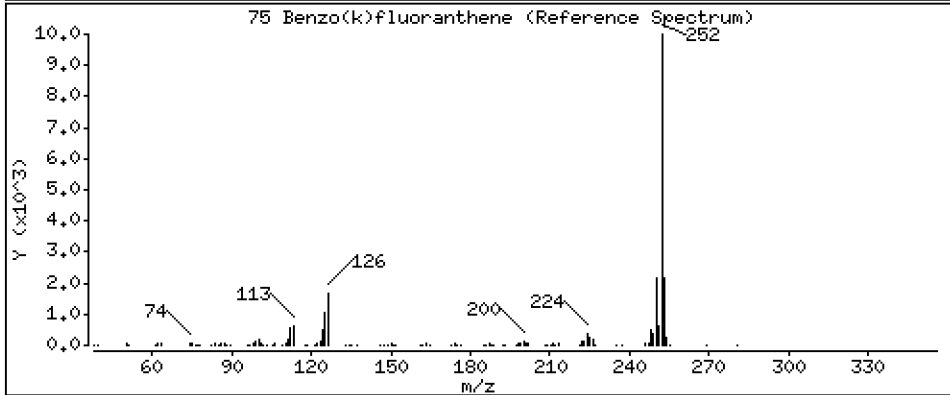
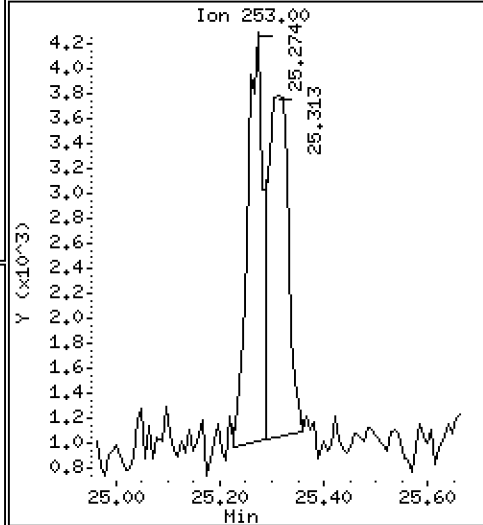
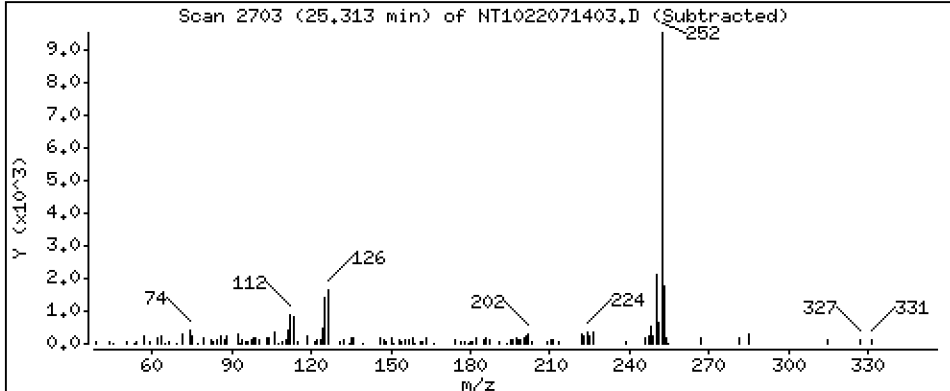
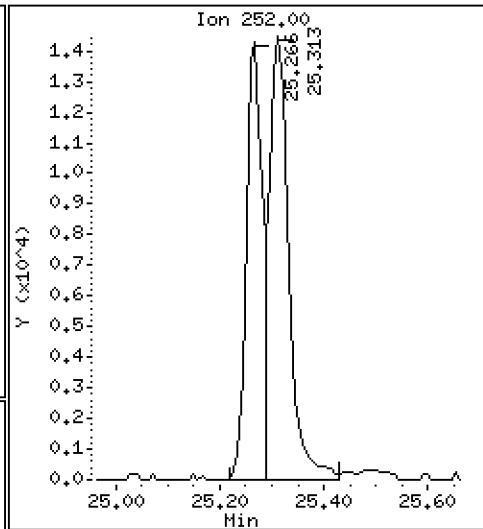
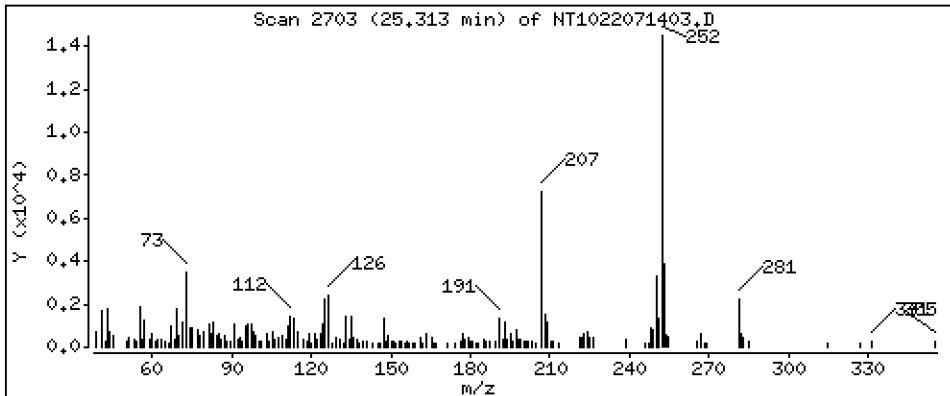
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,5849 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

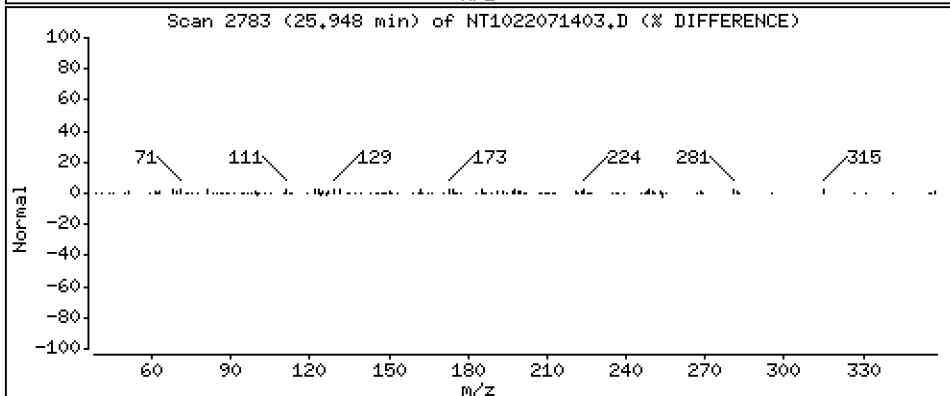
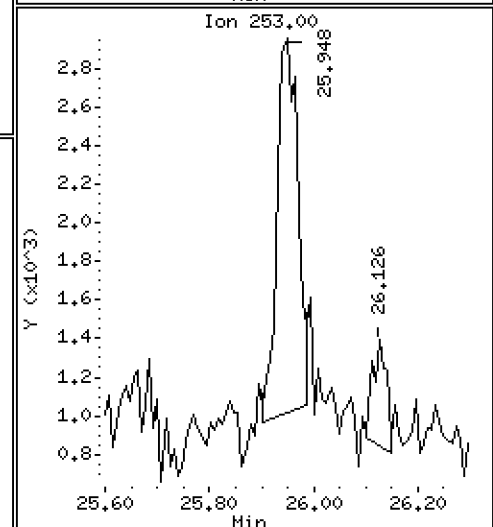
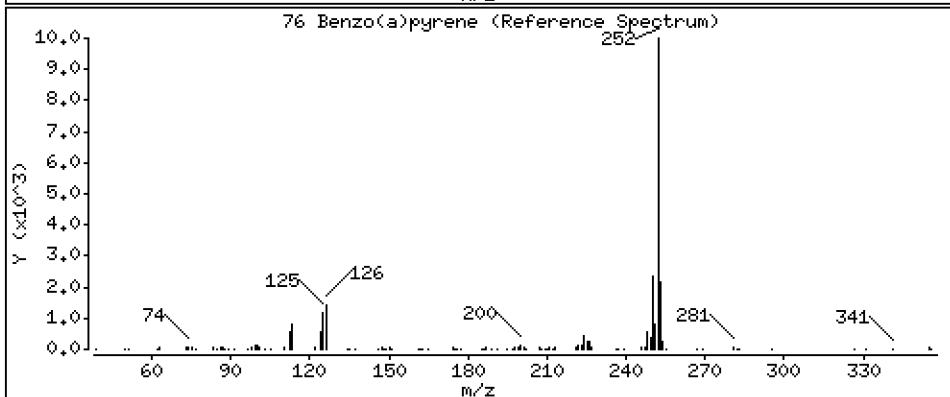
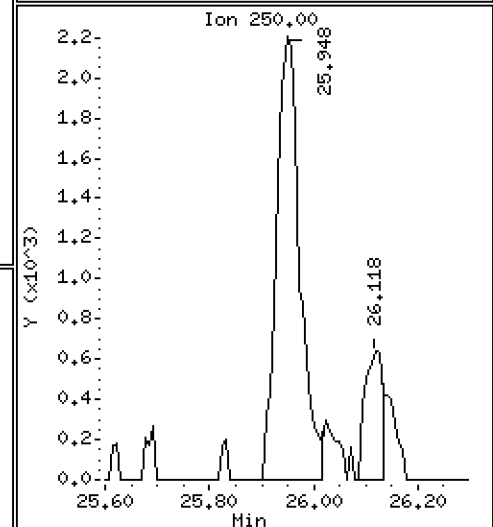
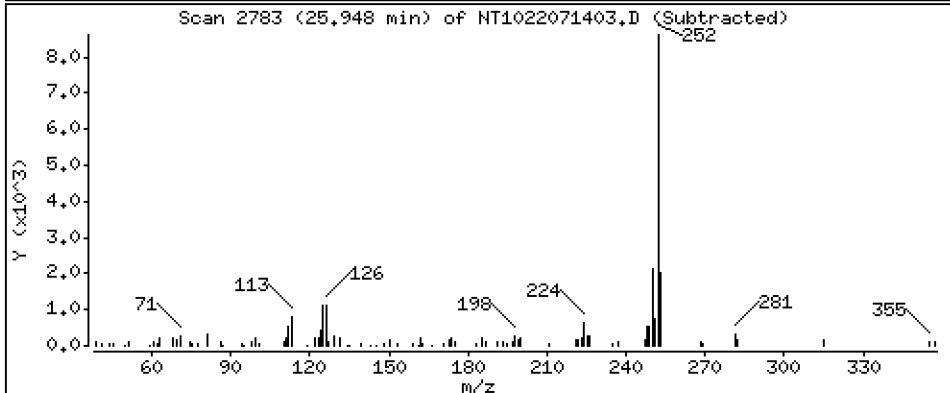
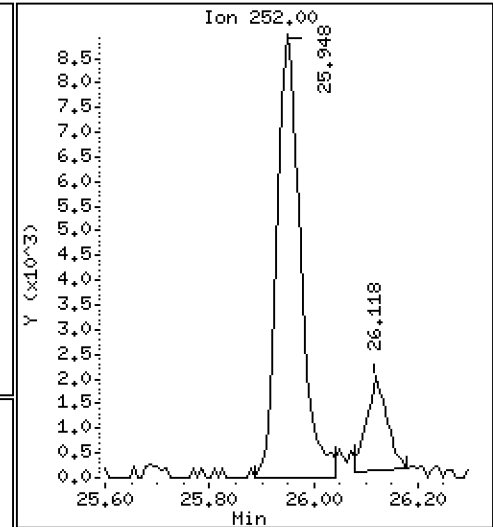
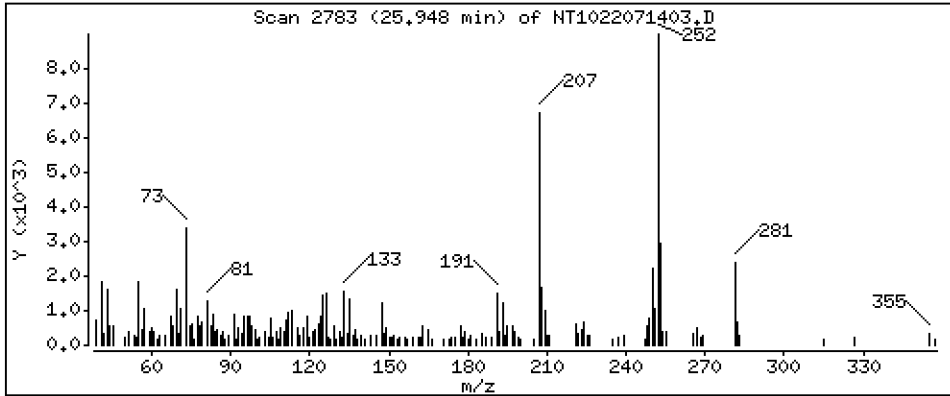
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5017 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

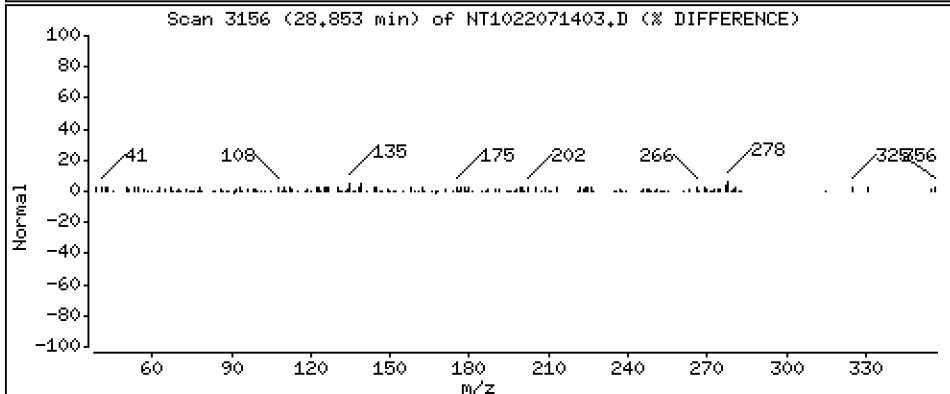
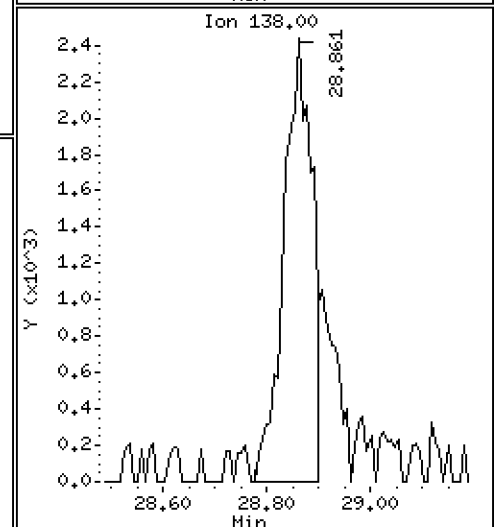
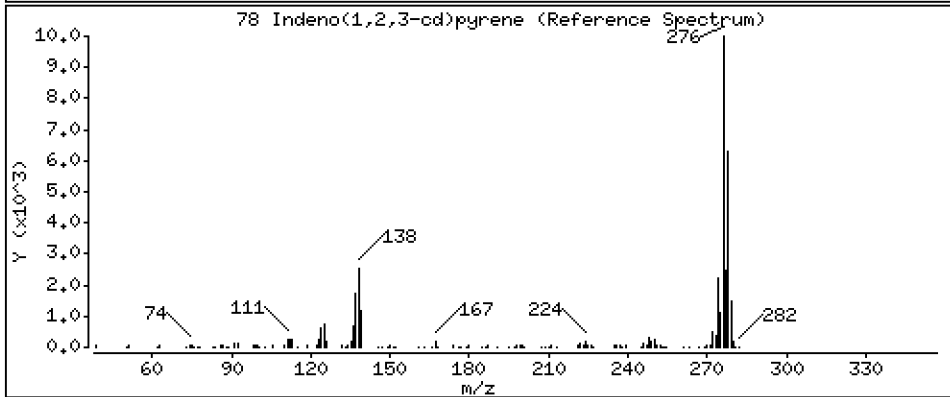
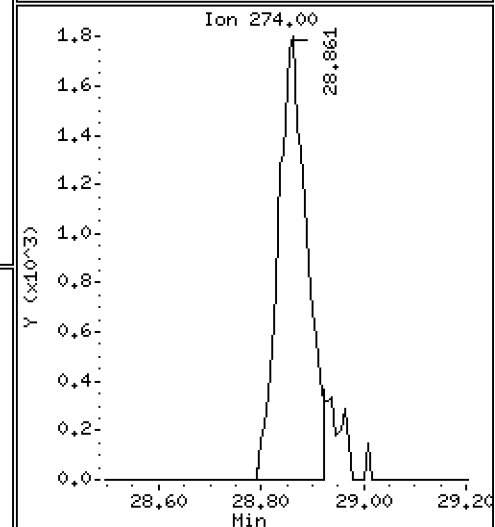
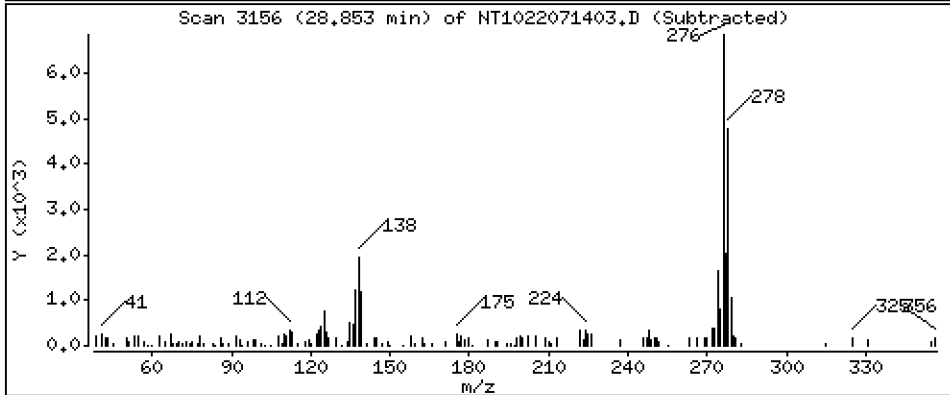
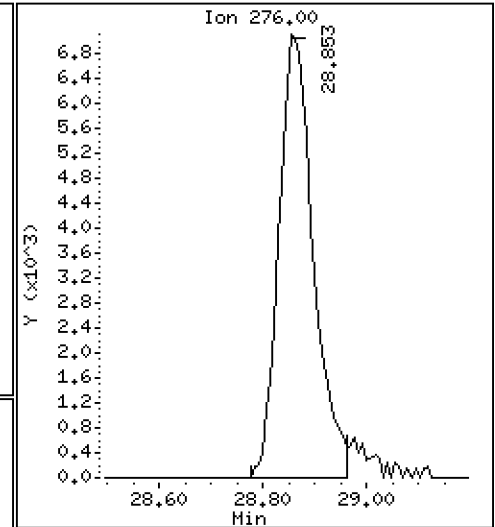
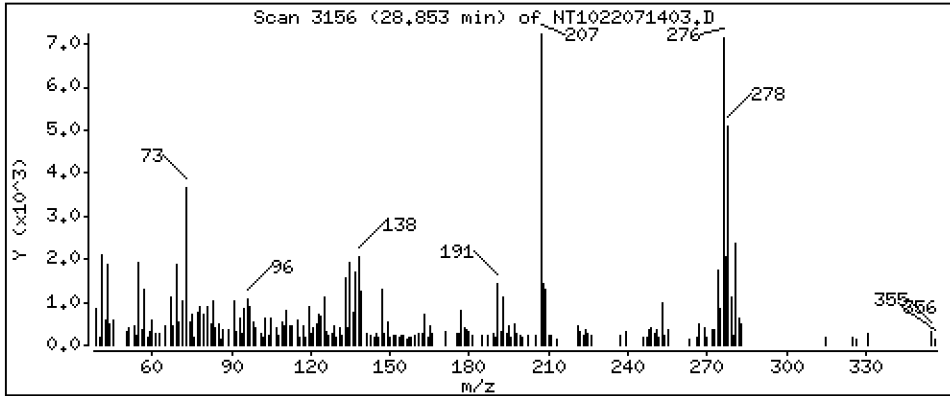
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 0.5554 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

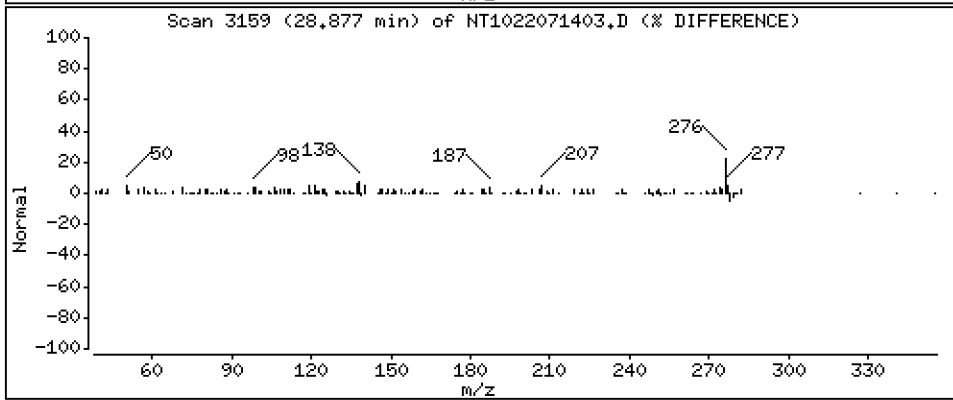
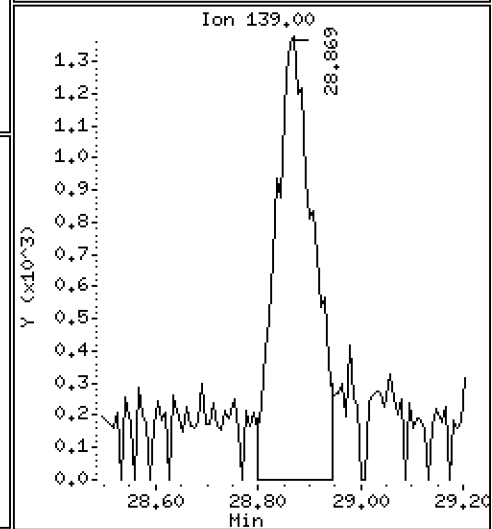
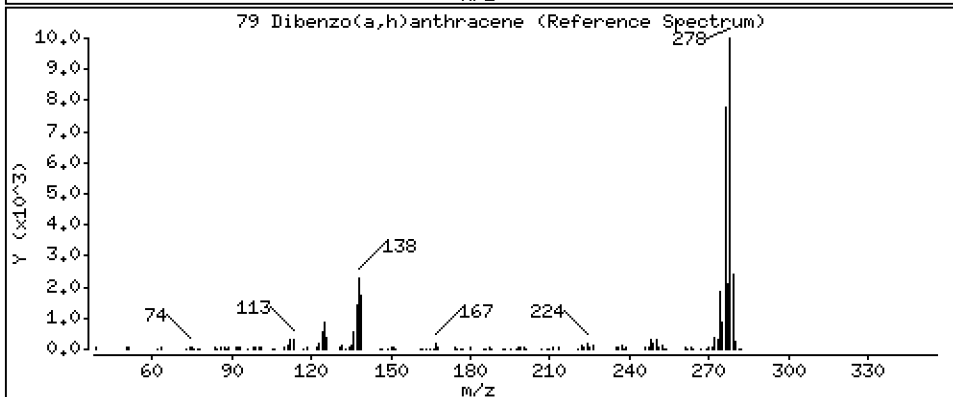
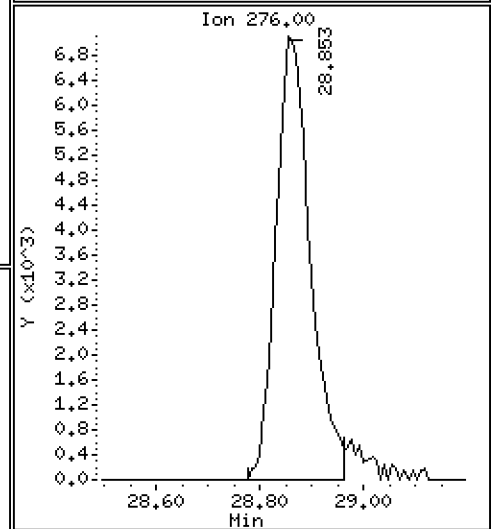
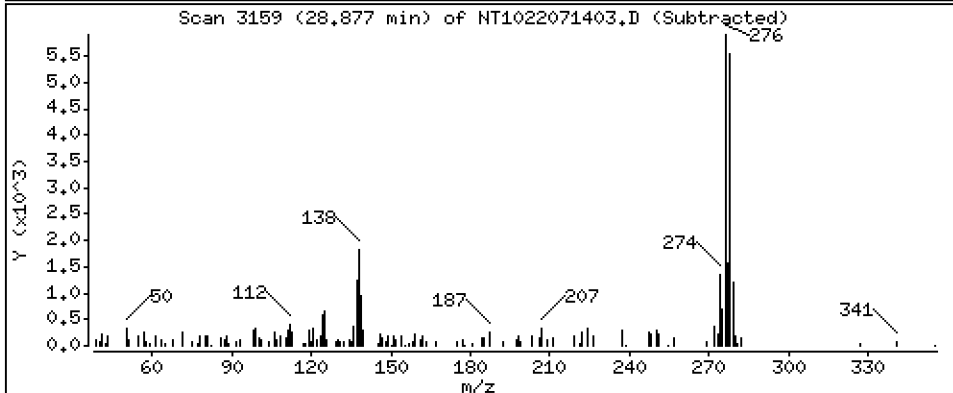
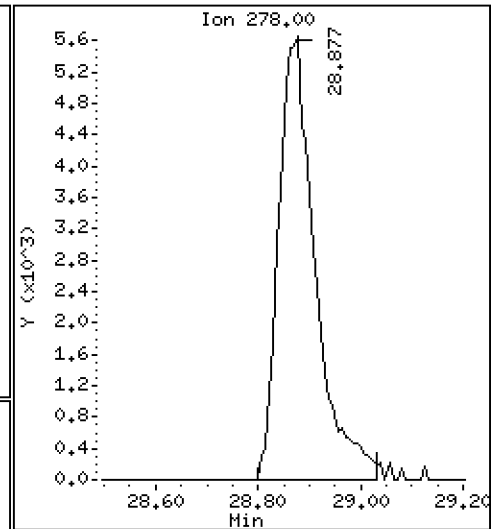
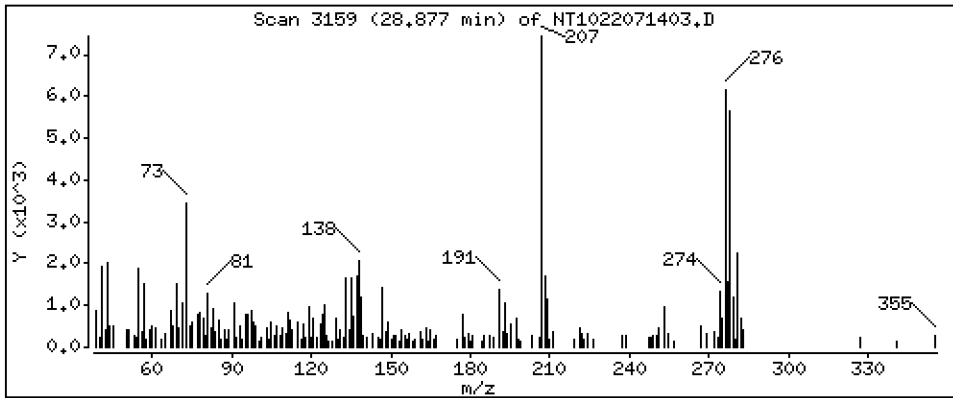
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,6182 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

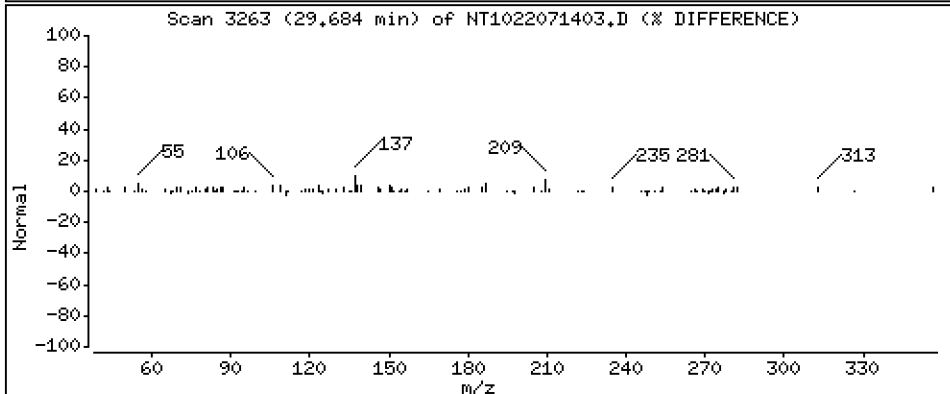
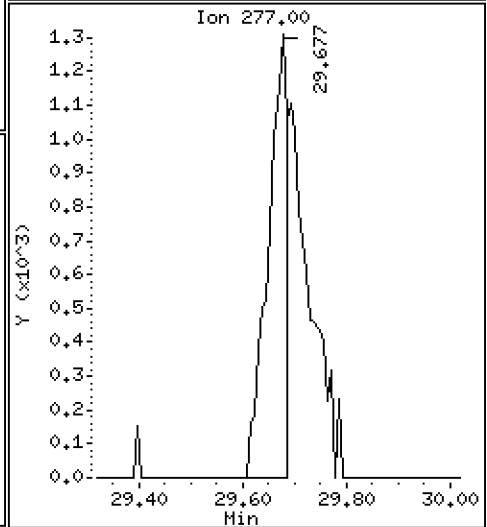
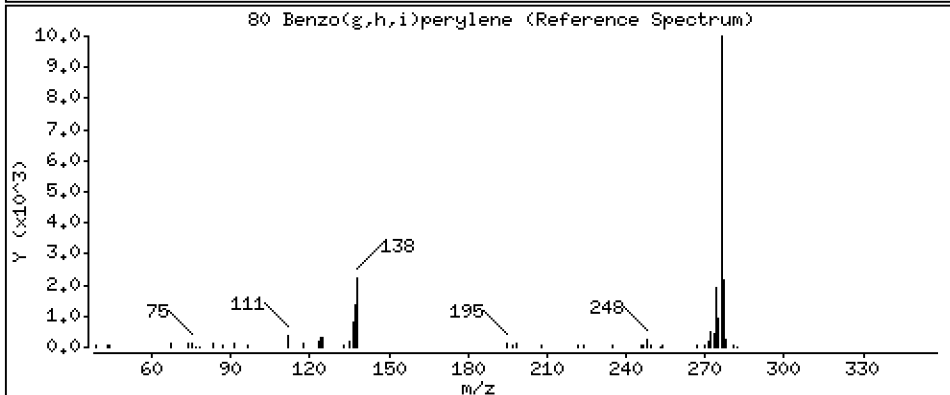
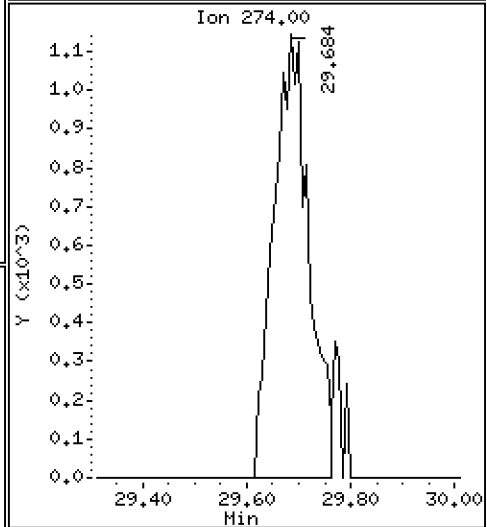
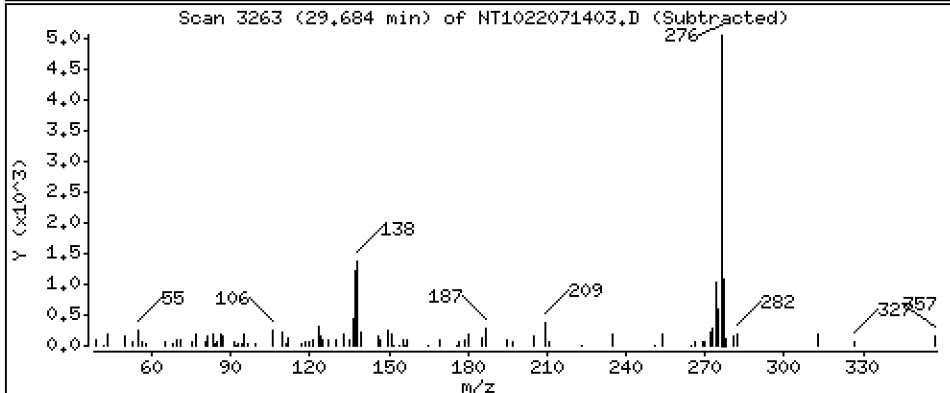
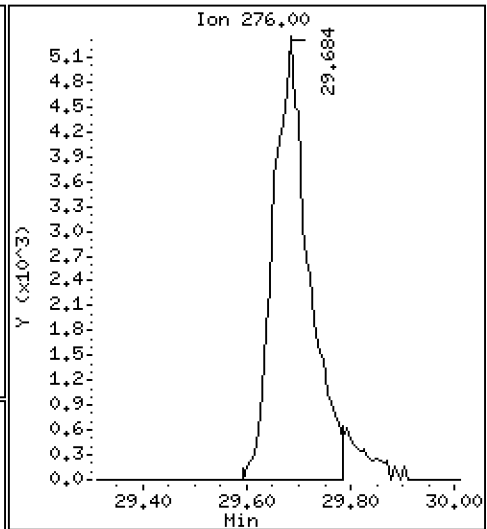
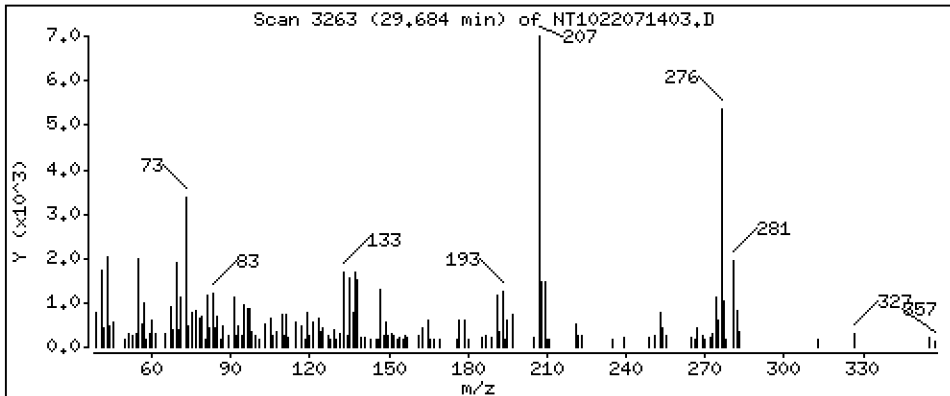
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,5389 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

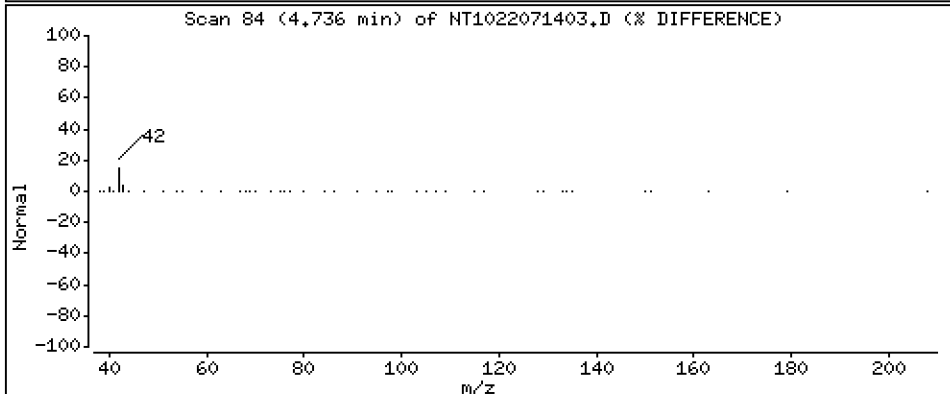
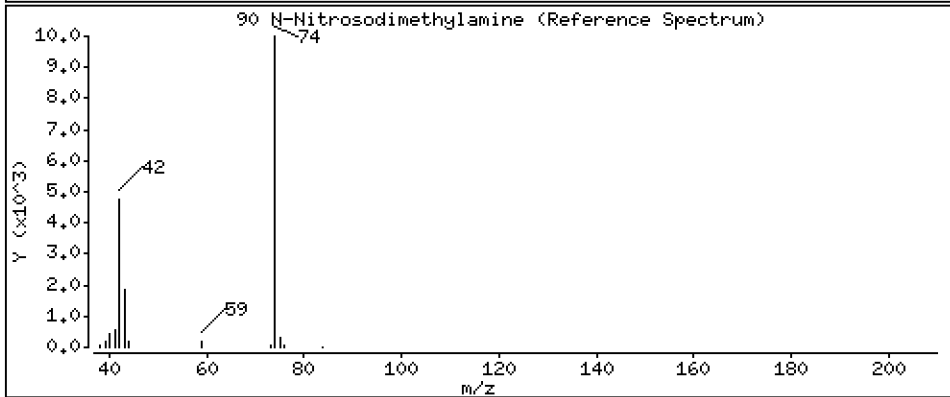
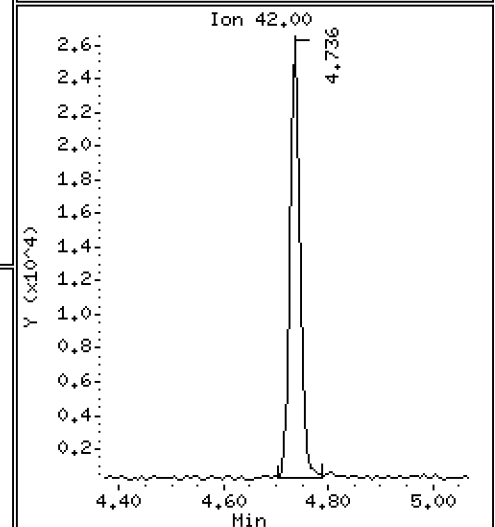
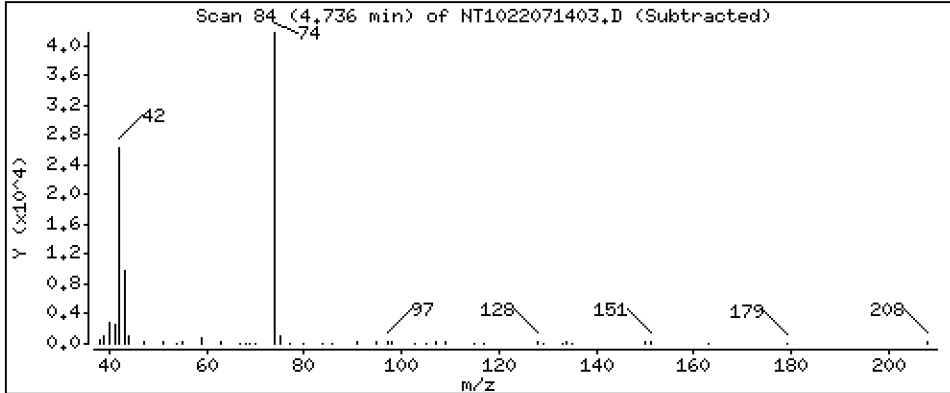
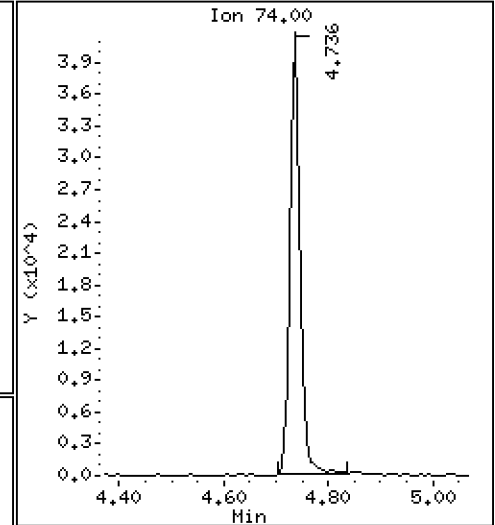
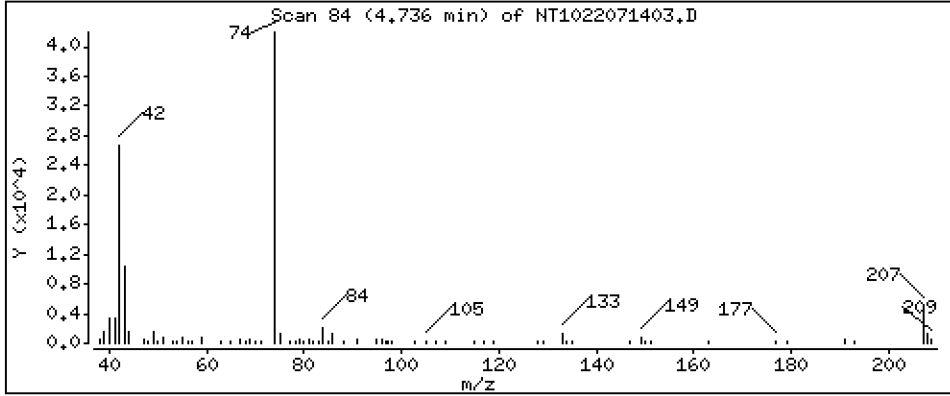
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 1,033 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

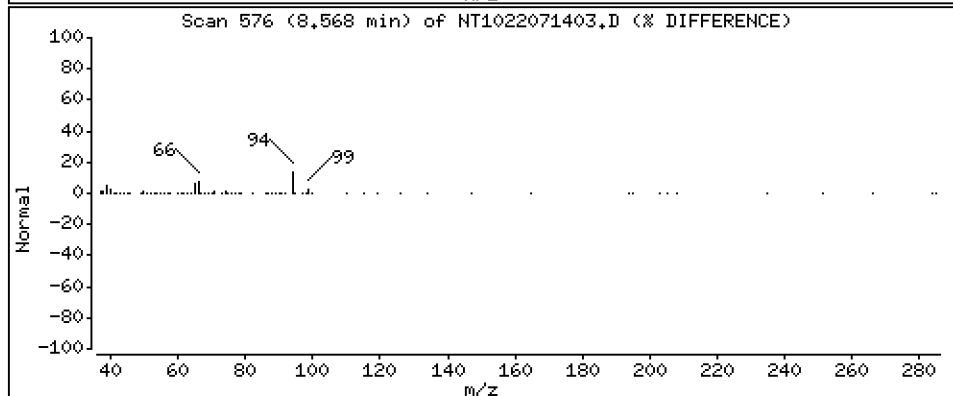
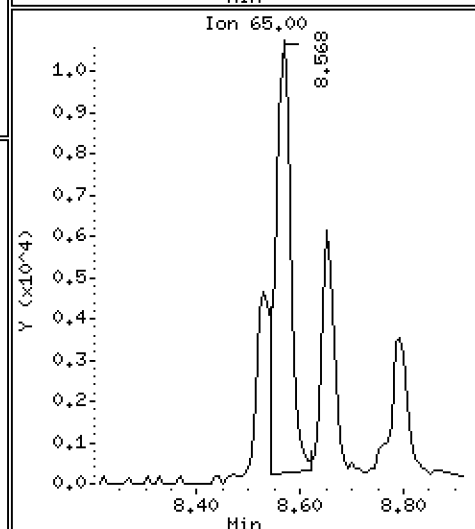
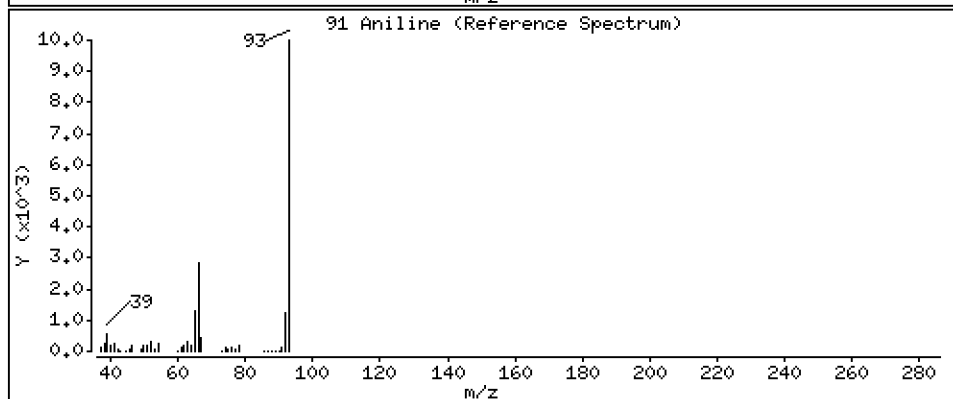
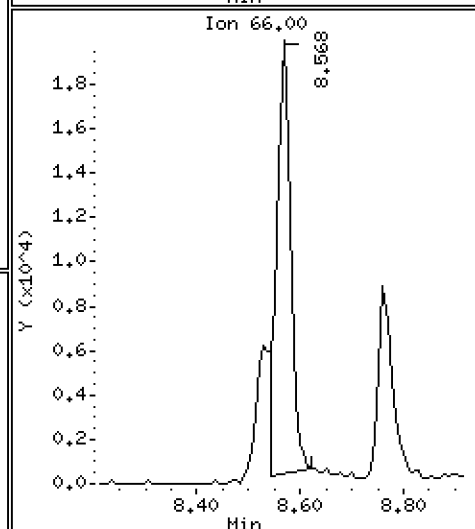
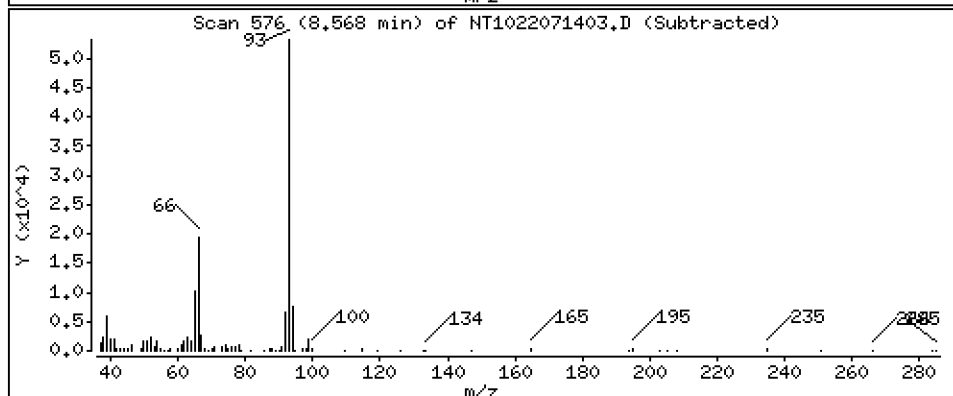
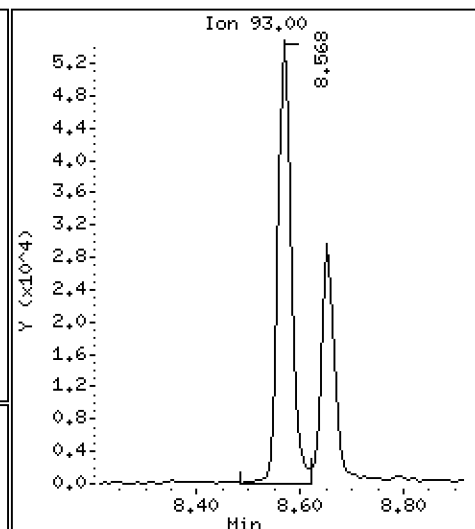
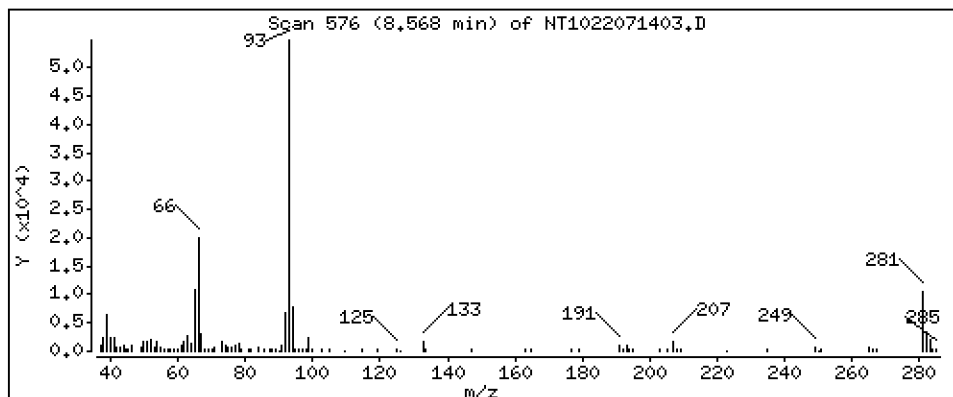
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,8644 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

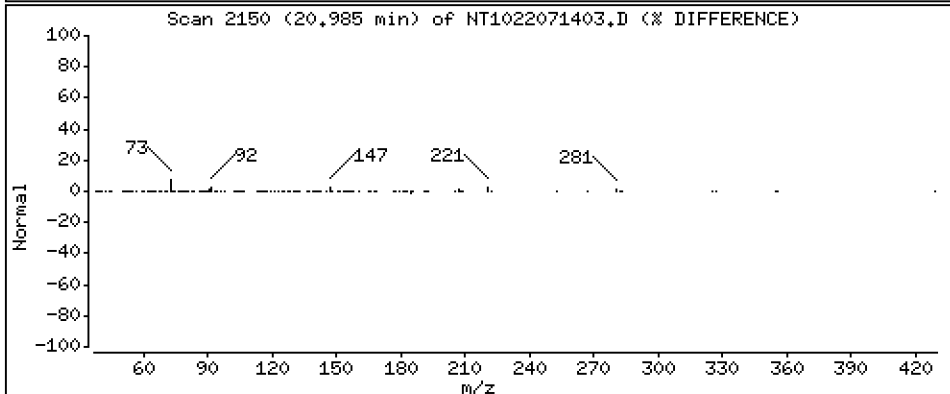
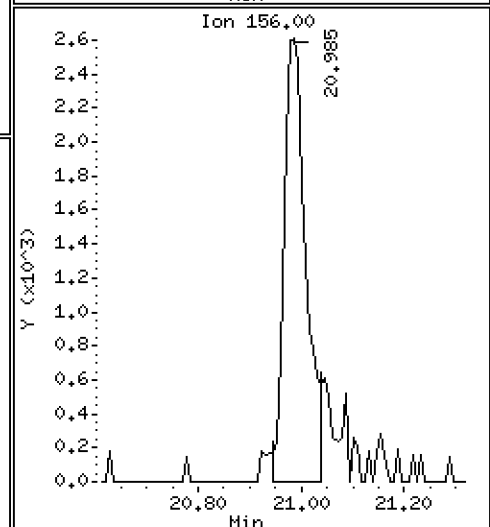
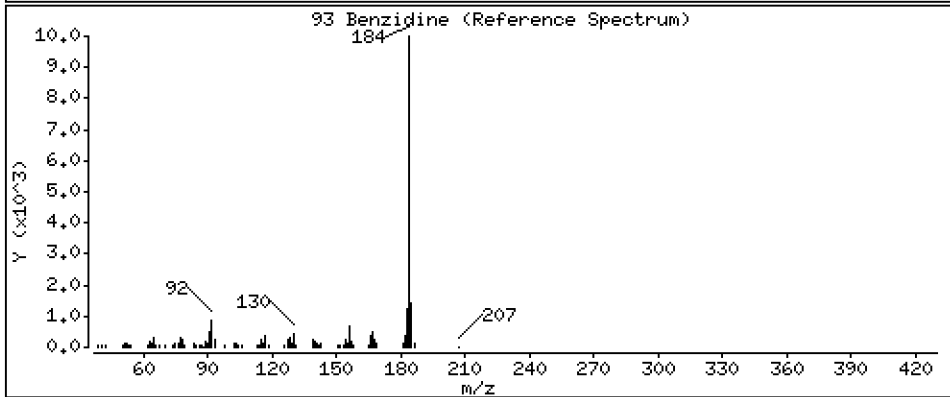
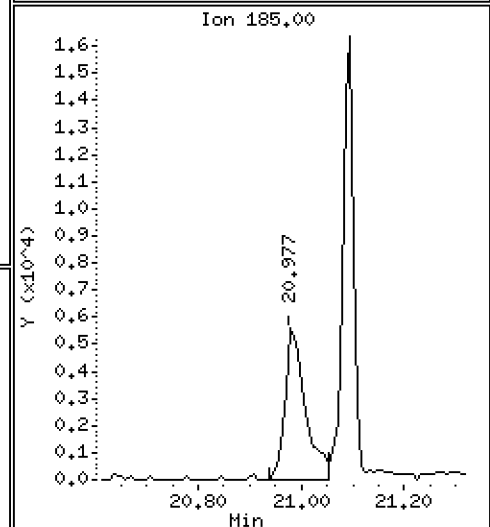
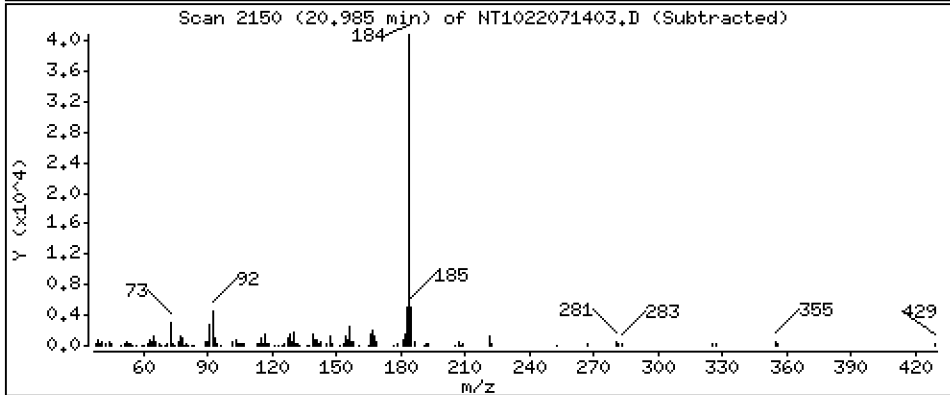
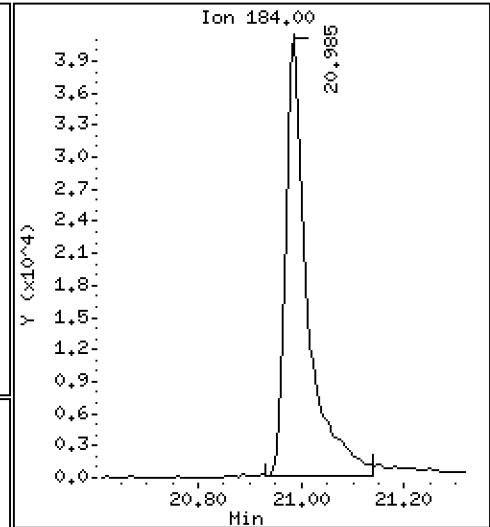
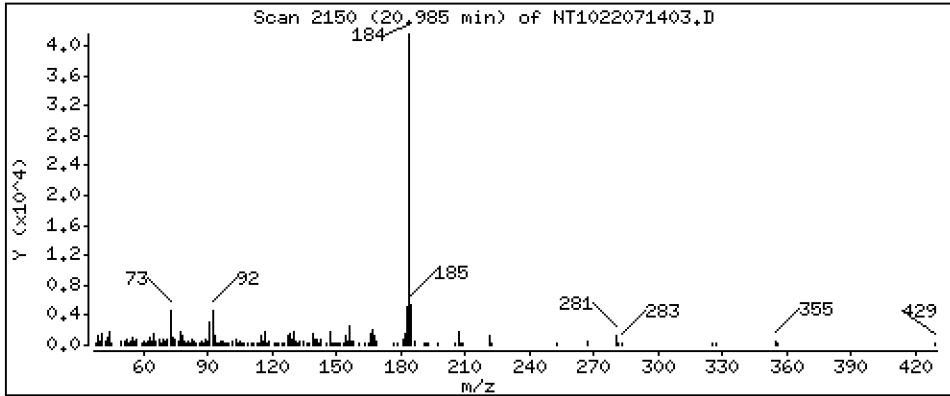
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,389 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

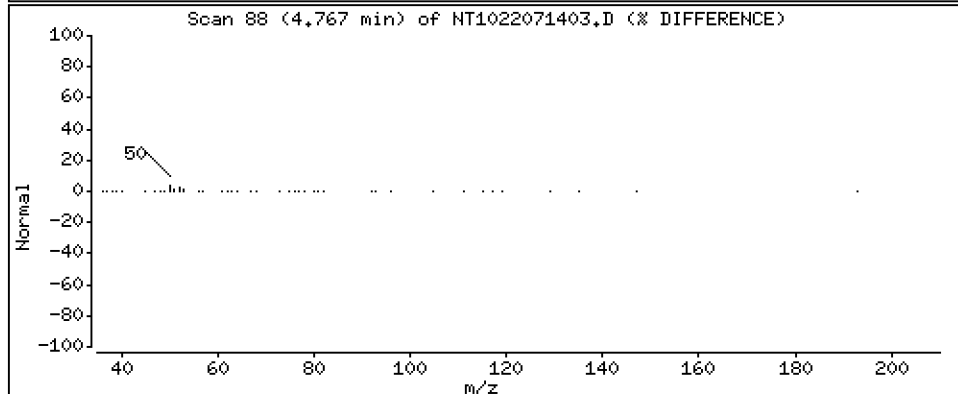
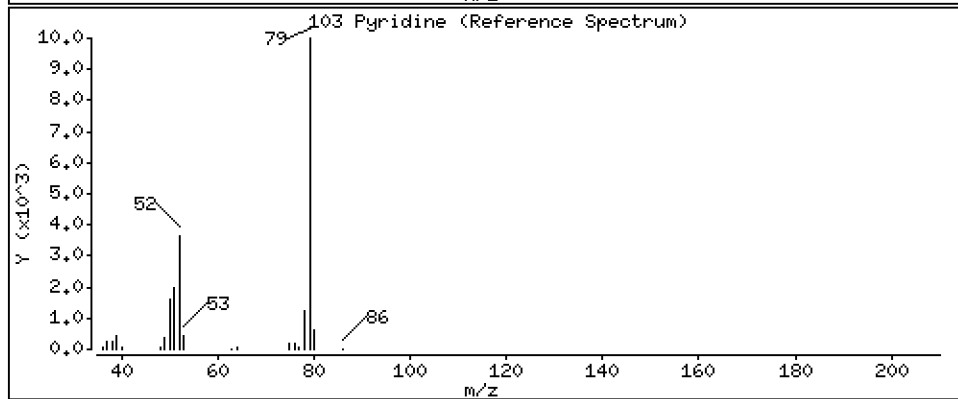
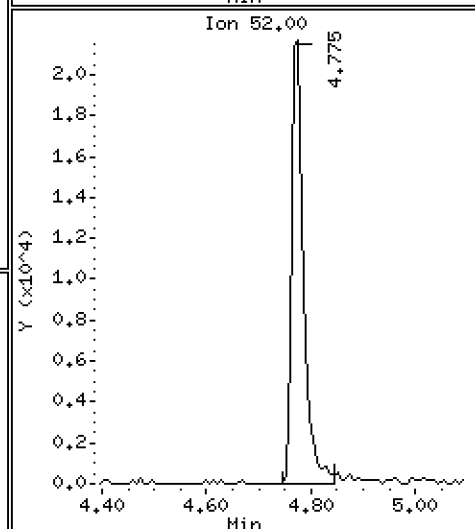
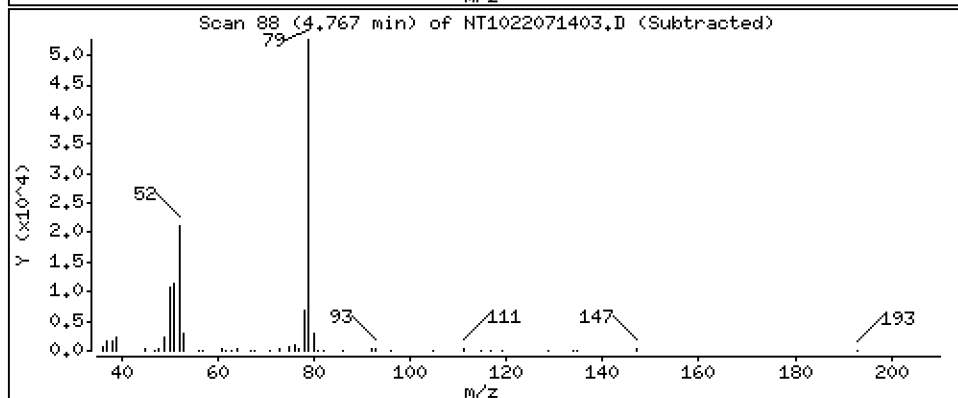
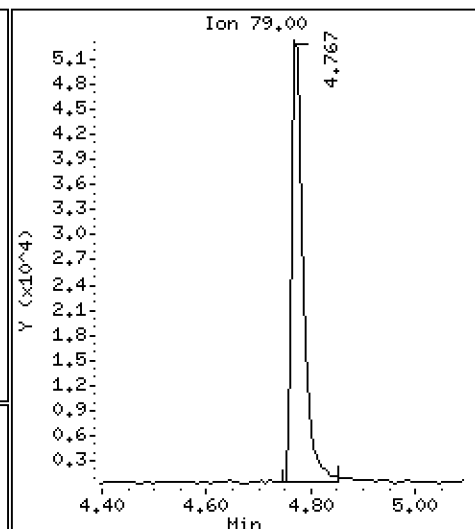
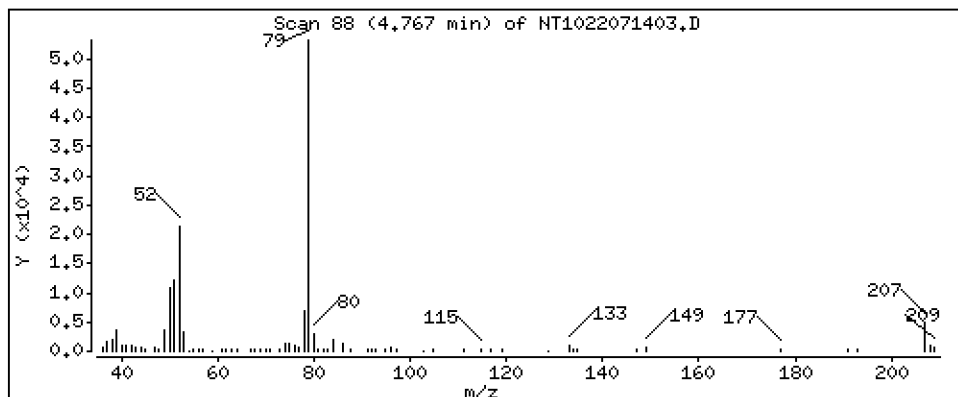
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,5537 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

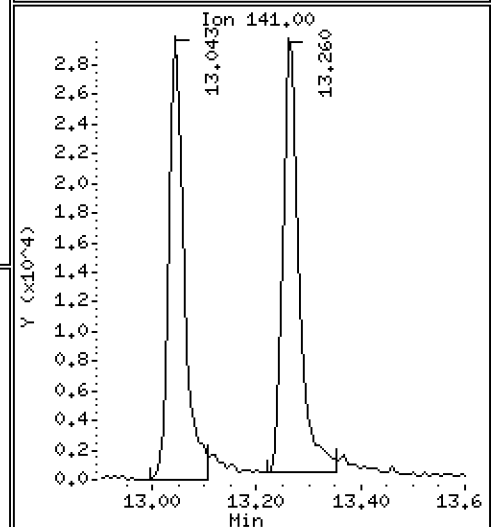
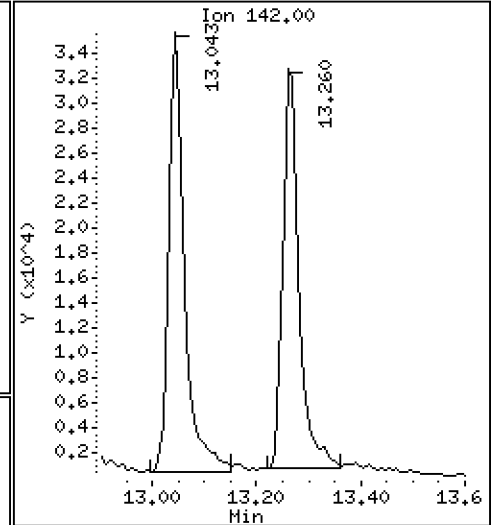
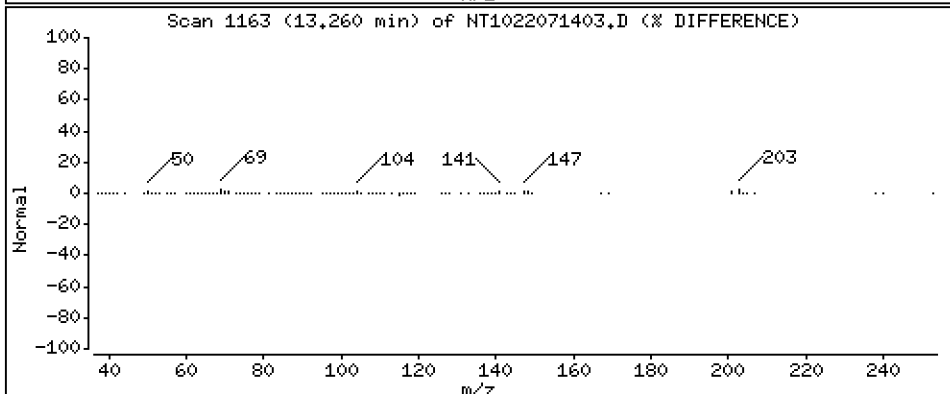
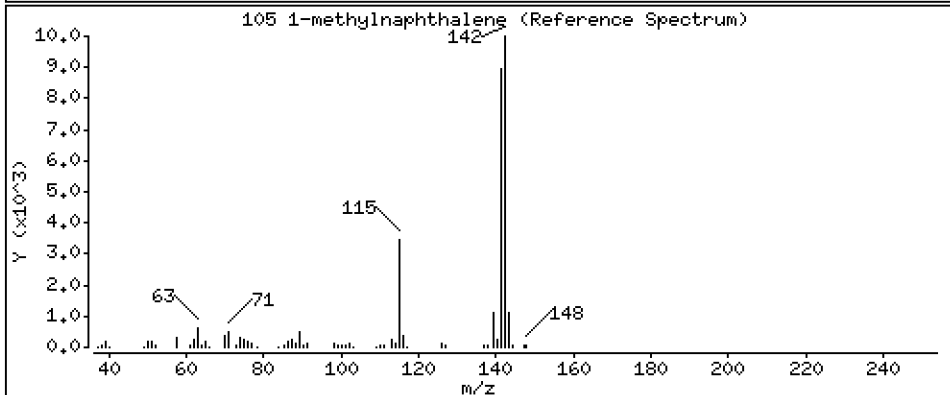
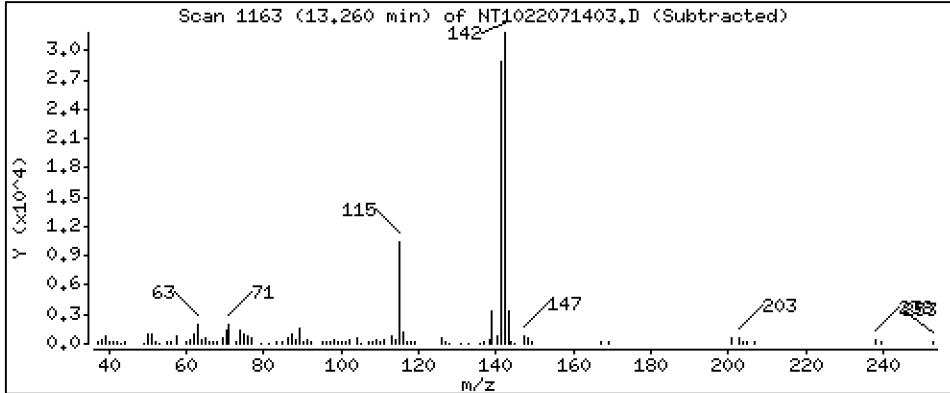
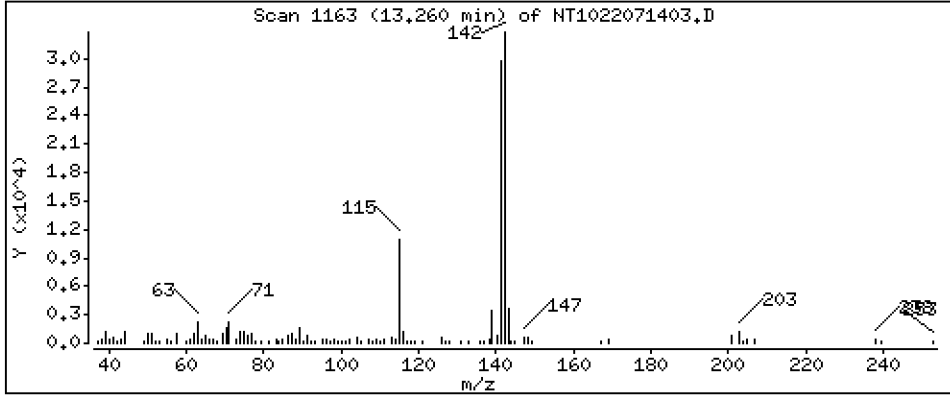
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,3902 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

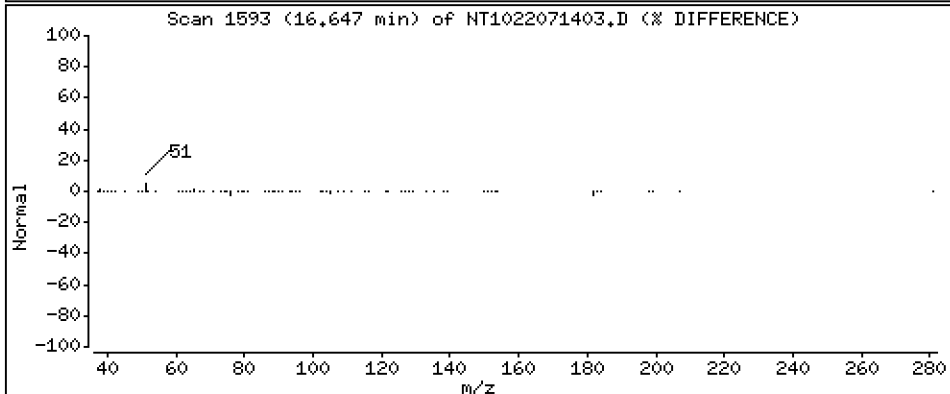
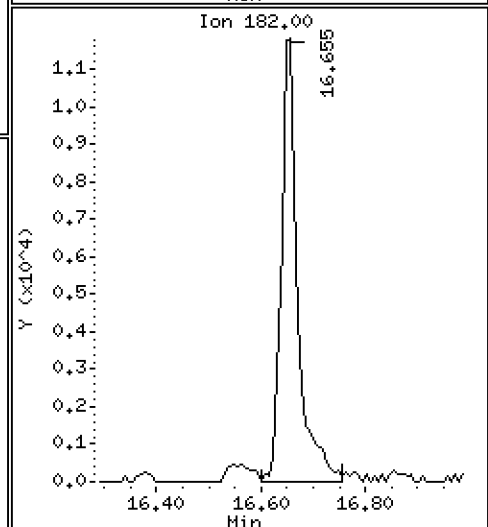
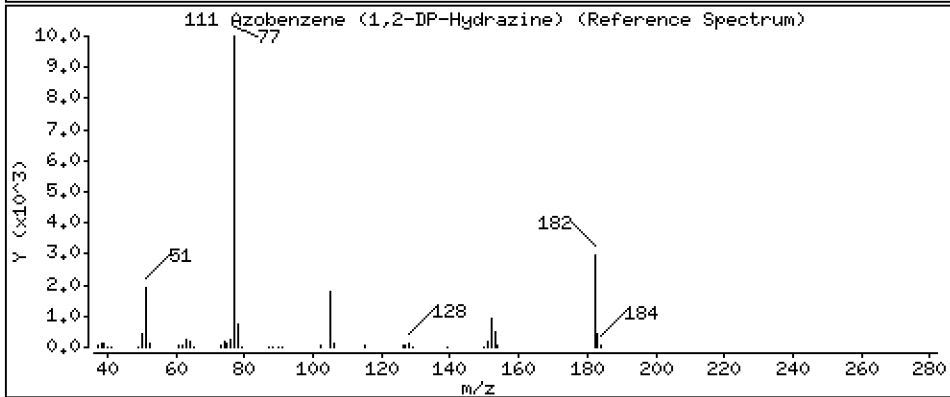
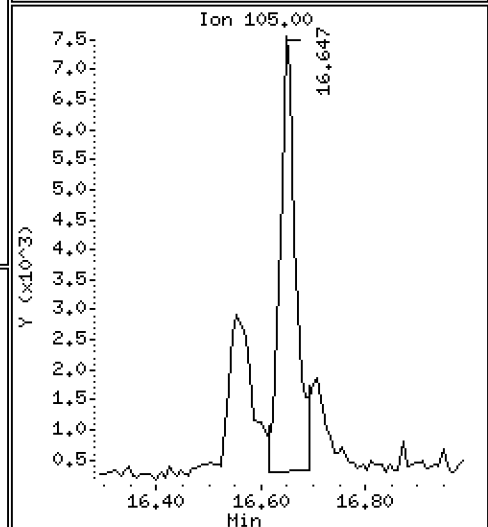
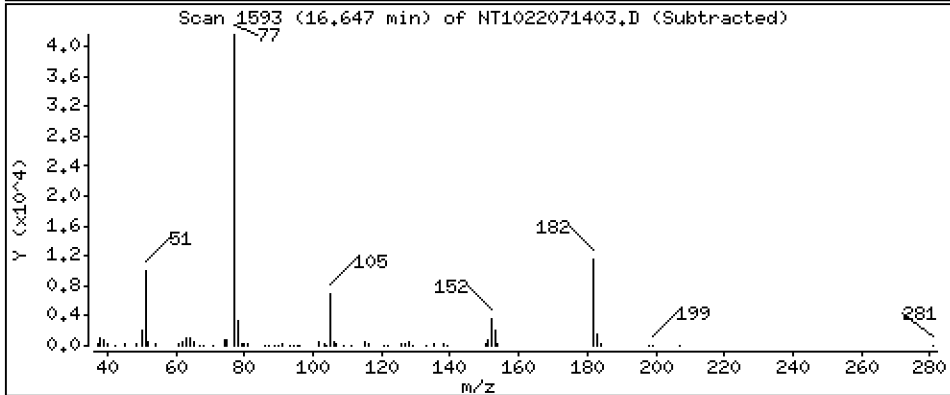
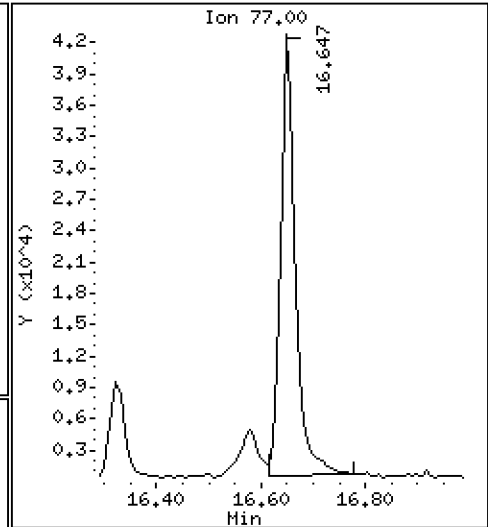
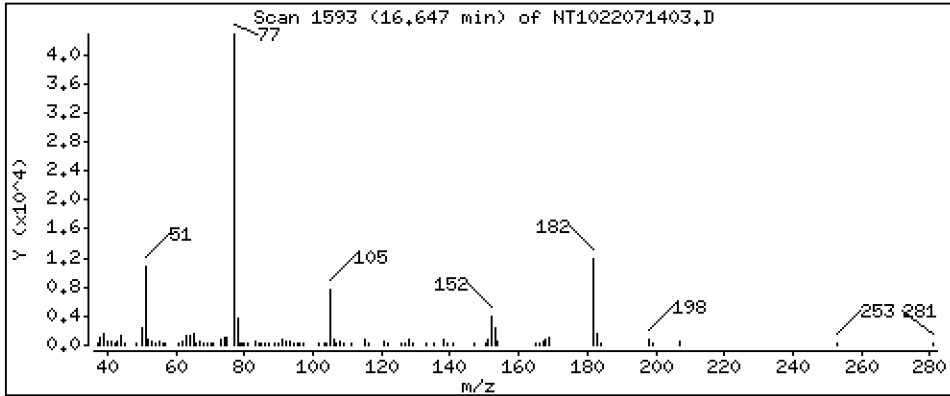
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5495 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

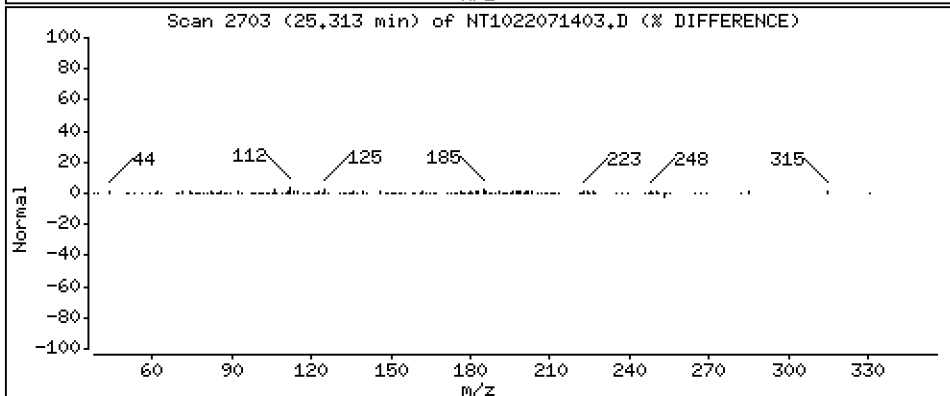
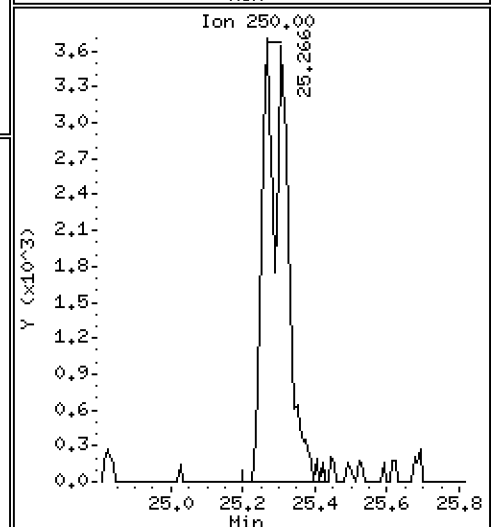
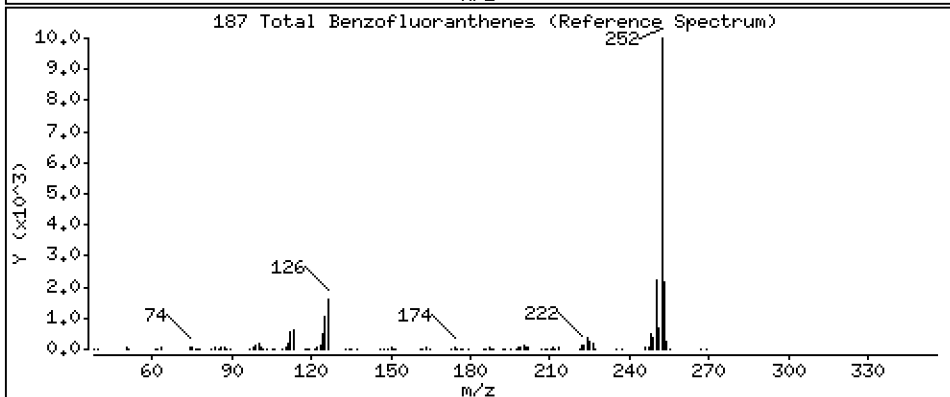
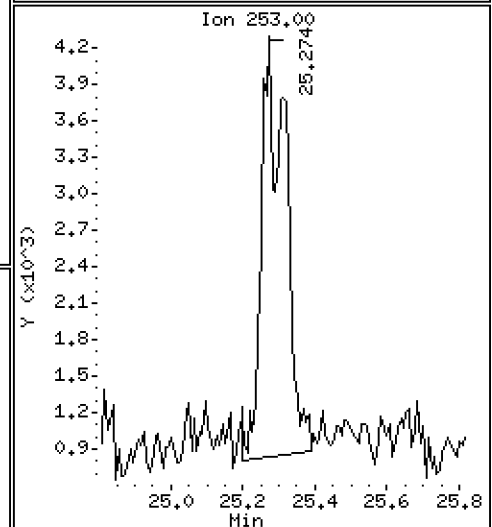
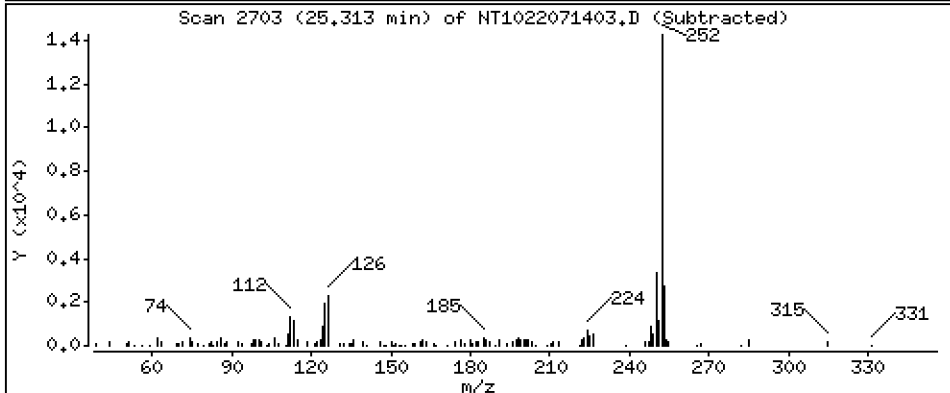
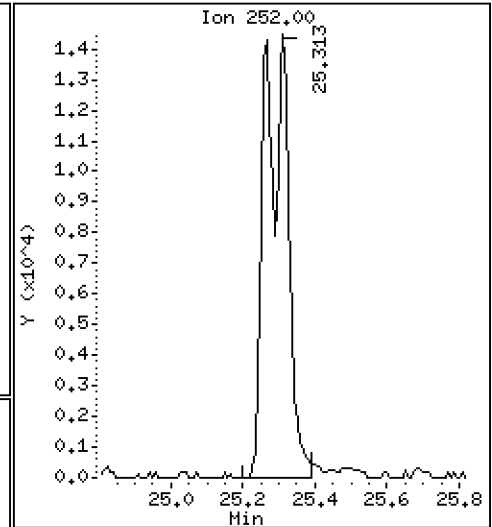
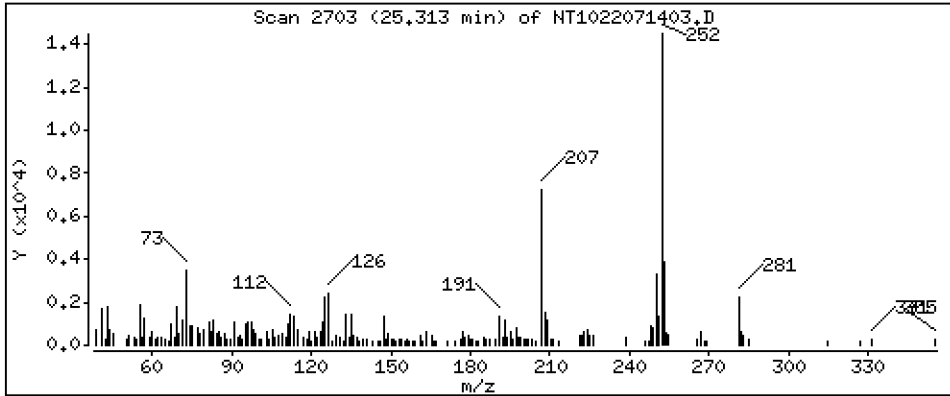
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,049 ug/mL



Date : 14-JUL-2022 15:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0139-LCV1

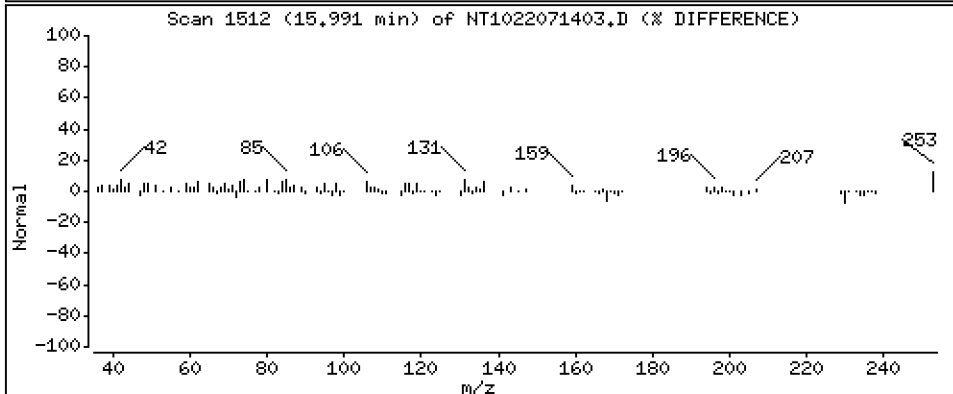
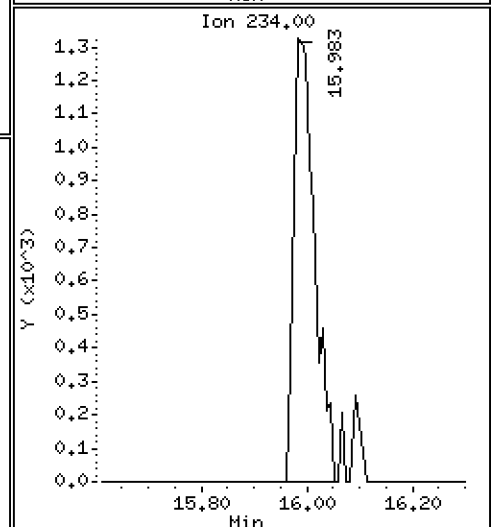
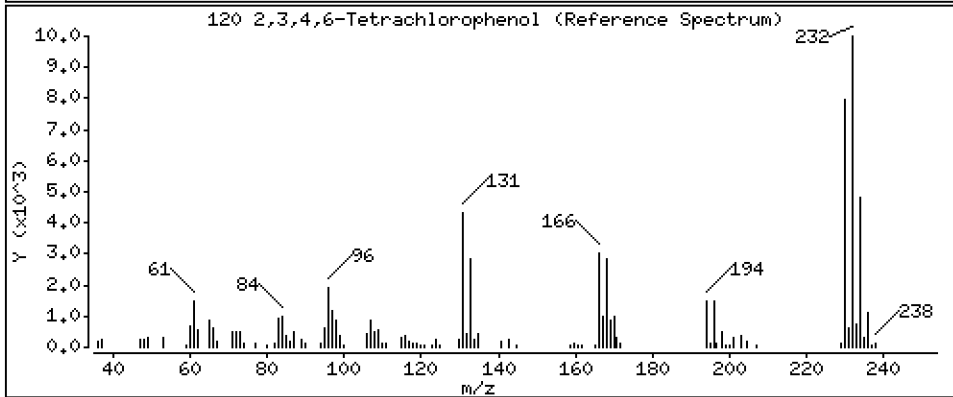
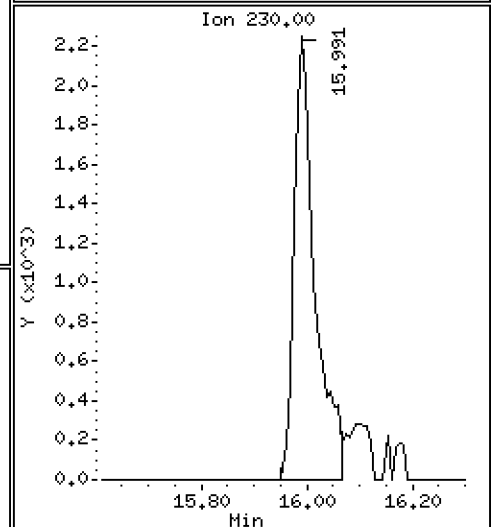
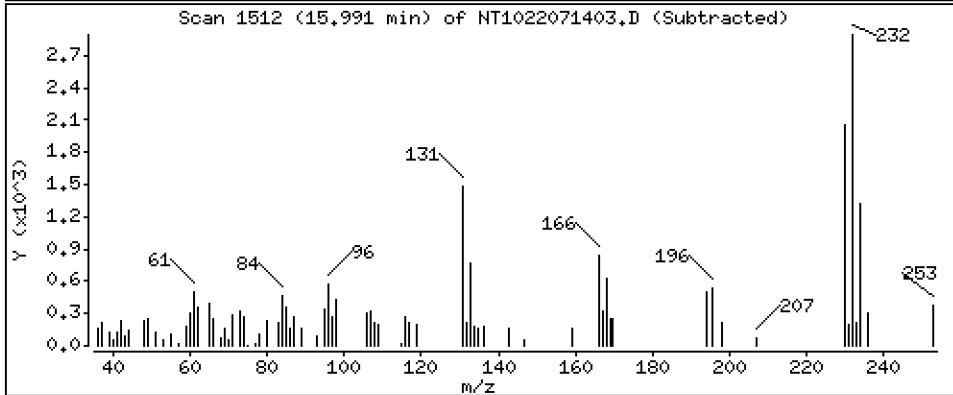
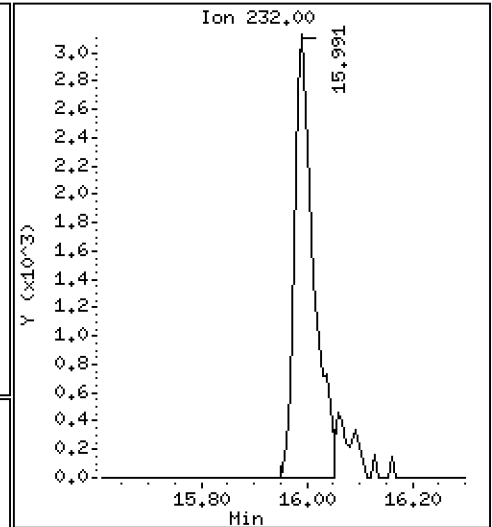
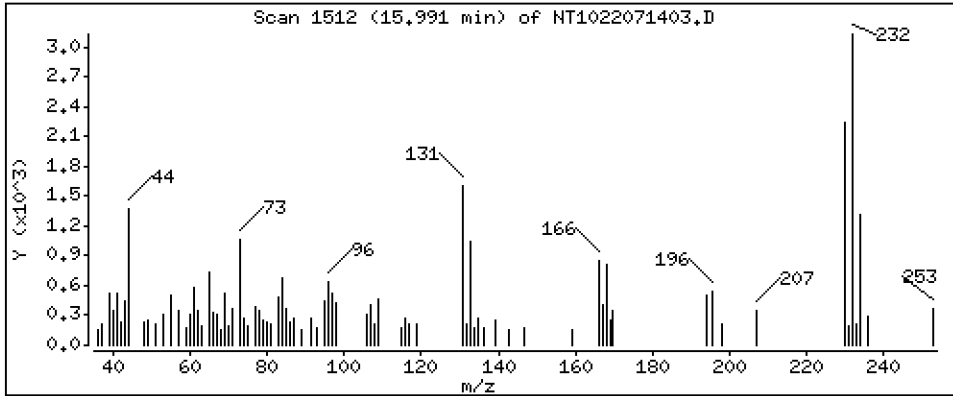
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,2460 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220714.b\NT1022071403.D
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 Inj Date : 14-JUL-2022 15:00
 Operator : VTS
 Smp Info : SKG0139-LCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220714.b\ABN.m
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 Cal Date : 23-JUN-2022 13:07
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.914	6.906	(0.759)	68653	0.81136	0.8114
\$ 2 Phenol-d5	99		8.505	8.490	(0.934)	69055	0.55002	0.5500
3 Phenol	94		8.529	8.513	(0.936)	55541	0.50768	0.5077
\$ 5 2-Chlorophenol-d4	132		8.760	8.753	(0.962)	64400	0.74695	0.7469
4 Bis(2-Chloroethyl)ether	93		8.652	8.645	(0.950)	47309	0.60086	0.6009
6 2-Chlorophenol	128		8.791	8.776	(0.965)	45960	0.52695	0.5269
7 1,3-Dichlorobenzene	146		9.047	9.039	(0.993)	57811	0.61282	0.6128
* 8 1,4-Dichlorobenzene-d4	152		9.109	9.101	(1.000)	231724	4.00000	
9 1,4-Dichlorobenzene	146		9.140	9.132	(1.003)	39182	0.52692	0.5269
\$ 10 1,2-Dichlorobenzene-d4	152		9.473	9.466	(1.040)	30595	0.57588	0.5759
12 1,2-Dichlorobenzene	146		9.497	9.489	(1.043)	47531	0.60211	0.6021
11 Benzyl alcohol	108		9.396	9.380	(1.032)	16028	0.36777	0.3678
14 2,2'-oxybis(1-Chloropropane)	121		9.675	9.668	(1.062)	13423	0.71902	0.7190 (M)
13 2-Methylphenol	108		9.644	9.613	(1.059)	26709	0.39596	0.3960
17 Hexachloroethane	117		10.079	10.079	(1.107)	17272	0.52106	0.5211
16 N-Nitroso-di-n-propylamine	70		9.939	9.924	(1.091)	24085	0.51341	0.5134
15 4-Methylphenol	108		9.924	9.885	(1.089)	22416	0.31096	0.3110 (M)
\$ 18 Nitrobenzene-d5	82		10.211	10.195	(0.881)	35955	0.48083	0.4808
19 Nitrobenzene	77		10.242	10.227	(0.883)	36316	0.48185	0.4818
20 Isophorone	82		10.684	10.677	(0.921)	55776	0.51157	0.5116
21 2-Nitrophenol	139		10.876	10.859	(0.938)	19466	0.40891	0.4089
22 2,4-Dimethylphenol	107		10.961	10.927	(0.945)	55267	0.95568	0.9557
23 Bis(2-Chloroethoxy)methane	93		11.131	11.106	(0.960)	37590	0.57386	0.5739
24 Benzoic acid	105		11.148	11.165	(0.961)	38265	1.28219	1.282 (M)
25 2,4-Dichlorophenol	162		11.419	11.335	(0.985)	49065	0.83480	0.8348 (M)
26 1,2,4-Trichlorobenzene	180		11.511	11.504	(0.993)	40076	0.63525	0.6352
* 27 Naphthalene-d8	136		11.596	11.589	(1.000)	702753	4.00000	
28 Naphthalene	128		11.635	11.627	(1.003)	95494	0.53095	0.5309
29 4-Chloroaniline	127		11.789	11.766	(1.017)	58118	0.73182	0.7318
30 Hexachlorobutadiene	225		11.990	11.990	(1.034)	20232	0.67224	0.6722
31 4-Chloro-3-methylphenol	107		12.795	12.749	(1.103)	49103	0.70839	0.7084
32 2-Methylnaphthalene	142		13.043	13.027	(1.125)	77205	0.43191	0.4319
33 Hexachlorocyclopentadiene	237							Compound Not Detected.

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.700	13.662	(0.900)	35779	0.84139	0.8414
35 2,4,5-Trichlorophenol	196	13.809	13.755	(0.907)	38038	0.74492	0.7449
§ 36 2-Fluorobiphenyl	172	13.824	13.809	(0.908)	91406	0.53986	0.5399
37 2-Chloronaphthalene	162	14.041	14.026	(0.923)	80607	0.54004	0.5400
38 2-Nitroaniline	65	14.320	14.289	(0.941)	40066	1.00351	1.004
39 Dimethylphthalate	163	14.730	14.714	(0.968)	98919	0.75390	0.7539
40 Acenaphthylene	152	14.908	14.900	(0.980)	133960	0.61249	0.6125
41 2,6-Dinitrotoluene	165	14.877	14.862	(0.978)	35766	1.17367	1.174
* 42 Acenaphthene-d10	164	15.217	15.210	(1.000)	374154	4.00000	
43 3-Nitroaniline	138	15.186	15.156	(0.998)	32383	0.90269	0.9027 (M)
44 Acenaphthene	153	15.287	15.279	(1.005)	56544	0.51964	0.5196
45 2,4-Dinitrophenol	184	15.449	15.372	(1.015)	2409	0.17841	0.1784 (M)
46 Dibenzofuran	168	15.619	15.612	(1.026)	86821	0.50206	0.5021
47 4-Nitrophenol	109	15.727	15.565	(1.034)	10837	0.92446	0.9245 (M)
48 2,4-Dinitrotoluene	165	15.696	15.681	(1.031)	41884	1.02835	1.028
50 Diethylphthalate	149	16.184	16.176	(1.064)	84962	0.75484	0.7548
49 Fluorene	166	16.338	16.323	(1.074)	114963	0.55636	0.5564
51 4-Chlorophenyl-phenylether	204	16.323	16.323	(1.073)	34790	0.38339	0.3834
52 4-Nitroaniline	138	16.485	16.439	(1.083)	37662	1.04818	1.048
53 4,6-Dinitro-2-methylphenol	198	16.554	16.531	(0.906)	24188	0.97945	0.9795 (M)
54 N-Nitrosodiphenylamine	169	16.577	16.570	(0.907)	72186	0.72905	0.7290
§ 55 2,4,6-Tribromophenol	330	16.886	16.870	(1.110)	5938	0.35203	0.3520 (M)
56 4-Bromophenyl-phenylether	248	17.333	17.318	(0.948)	26502	0.57770	0.5777
57 Hexachlorobenzene	284	17.650	17.642	(0.966)	27477	0.62488	0.6249
58 Pentachlorophenol	266	18.068	18.022	(0.989)	639	0.06782	0.06782 (M)
* 59 Phenanthrene-d10	188	18.277	18.269	(1.000)	629695	4.00000	
60 Phenanthrene	178	18.323	18.316	(1.003)	90798	0.54885	0.5489
61 Anthracene	178	18.416	18.416	(1.008)	92531	0.52486	0.5249
62 Carbazole	167	18.780	18.757	(1.028)	104841	0.64461	0.6446
63 Di-n-butylphthalate	149	19.546	19.546	(1.069)	125559	0.51419	0.5142
64 Fluoranthene	202	20.729	20.722	(0.887)	109762	0.82466	0.8247
65 Pyrene	202	21.155	21.147	(0.906)	91007	0.78160	0.7816
§ 66 Terphenyl-d14	244	21.441	21.434	(0.918)	67806	1.03236	1.032
67 Butylbenzylphthalate	149	22.363	22.363	(0.957)	48504	1.27568	1.276
68 Benzo(a)anthracene	228	23.331	23.331	(0.999)	54716	0.68606	0.6861
* 69 Chrysene-d12	240	23.362	23.362	(1.000)	188212	4.00000	
70 3,3'-Dichlorobenzidine	252	23.300	23.292	(0.997)	69653	2.68014	2.680
71 Chrysene	228	23.408	23.408	(1.002)	35360	0.66640	0.6664
72 bis(2-Ethylhexyl)phthalate	149	23.400	23.400	(0.959)	28099	0.67179	0.6718
* 134 Di-n-octylphthalate-d4	153	24.407	24.407	(1.000)	378415	4.00000	
73 Di-n-octylphthalate	149	24.414	24.422	(1.000)	53256	0.61918	0.6192
74 Benzo(b)fluoranthene	252	25.266	25.266	(0.969)	32493	0.48085	0.4809
75 Benzo(k)fluoranthene	252	25.312	25.313	(0.971)	38008	0.58494	0.5849
76 Benzo(a)pyrene	252	25.947	25.948	(0.996)	27745	0.50167	0.5017
* 77 Perylene-d12	264	26.064	26.064	(1.000)	149208	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.853	28.845	(1.107)	32797	0.55541	0.5554
79 Dibenzo(a,h)anthracene	278	28.876	28.853	(1.108)	27948	0.61825	0.6182
80 Benzo(g,h,i)perylene	276	29.684	29.661	(1.139)	25436	0.53886	0.5389
90 N-Nitrosodimethylamine	74	4.735	4.720	(0.520)	57175	1.03275	1.033
91 Aniline	93	8.567	8.560	(0.941)	94582	0.86441	0.8644
93 Benzidine	184	20.985	20.962	(0.898)	121873	4.38921	4.389
103 Pyridine	79	4.766	4.743	(0.523)	86896	0.55370	0.5537
105 1-methylnaphthalene	142	13.259	13.252	(1.143)	68519	0.39016	0.3902
111 Azobenzene (1,2-DP-Hydrazine)	77	16.647	16.639	(1.094)	82108	0.54947	0.5495

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252		25.312	25.313	(0.971)	66086	1.04890	1.049
120 2,3,4,6-Tetrachlorophenol	232		15.990	15.959	(1.051)	8129	0.24604	0.2460

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 14-JUL-2022
 Lab File ID: NT1022071403.D Calibration Time: 14:12
 Lab Smp Id: SKG0139-LCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220714.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	195835	97918	391670	231724	18.33
27 Naphthalene-d8	626038	313019	1252076	702753	12.25
42 Acenaphthene-d10	366612	183306	733224	374154	2.06
59 Phenanthrene-d10	635137	317569	1270274	629695	-0.86
69 Chrysene-d12	270778	135389	541556	188212	-30.49
134 Di-n-octylphthala	507031	253516	1014062	378415	-25.37
77 Perylene-d12	170107	85054	340214	149208	-12.29

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.10	8.60	9.60	9.11	0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.60	0.07
42 Acenaphthene-d10	15.21	14.71	15.71	15.22	0.05
59 Phenanthrene-d10	18.27	17.77	18.77	18.28	0.04
69 Chrysene-d12	23.36	22.86	23.86	23.36	-0.00
134 Di-n-octylphthala	24.41	23.91	24.91	24.41	-0.00
77 Perylene-d12	26.06	25.56	26.56	26.06	-0.00

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

REVIEW SUMMARY FOR FILE - NT1022071403.D

Lab ID: SKG0139-LCV1
nt10.i, ABN.m, 14-JUL-2022 15:00

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.985	0.978	0.0066	2,4-Dichlorophenol
1.034	1.023	0.0101	4-Nitrophenol

RRT check based on Ccal File: NT1022071402.D

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

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

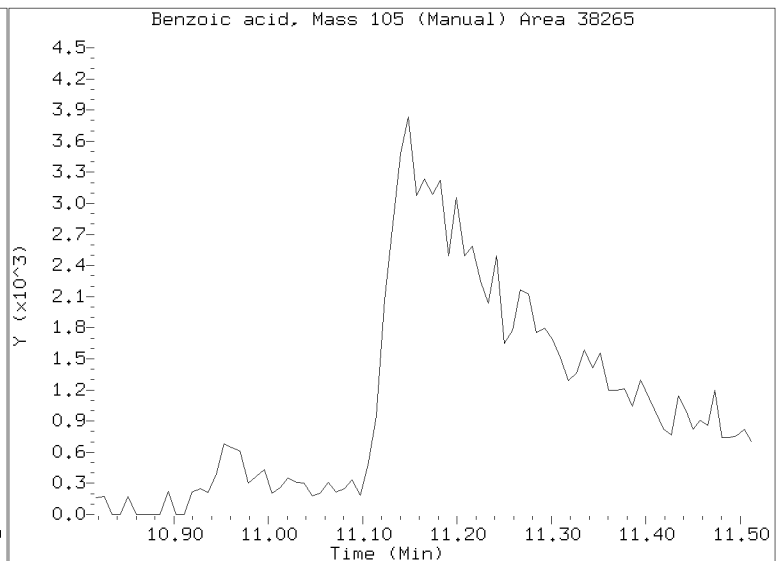
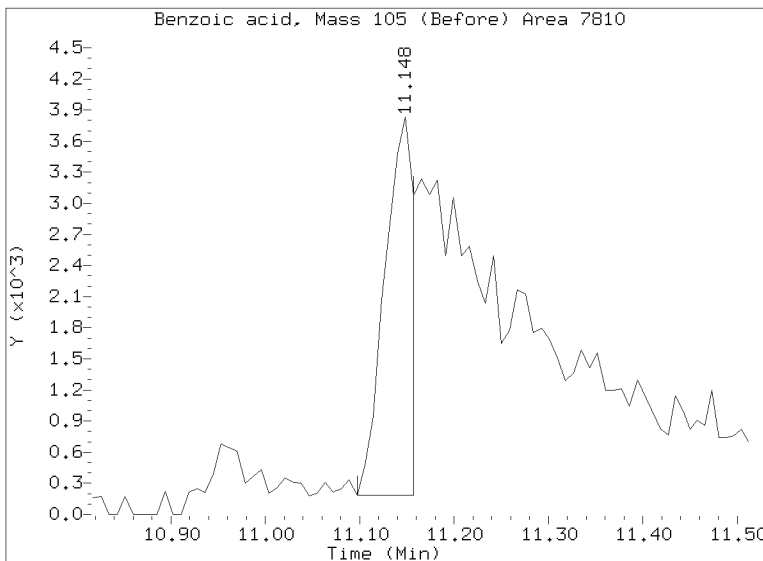
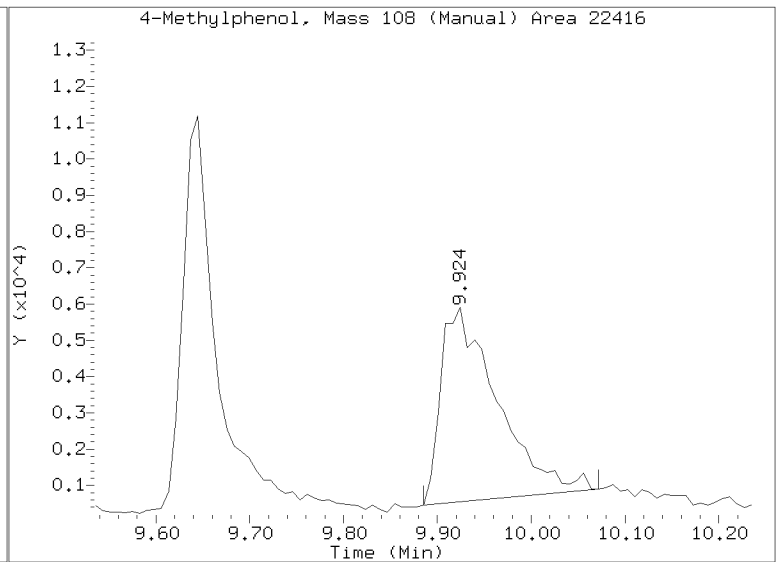
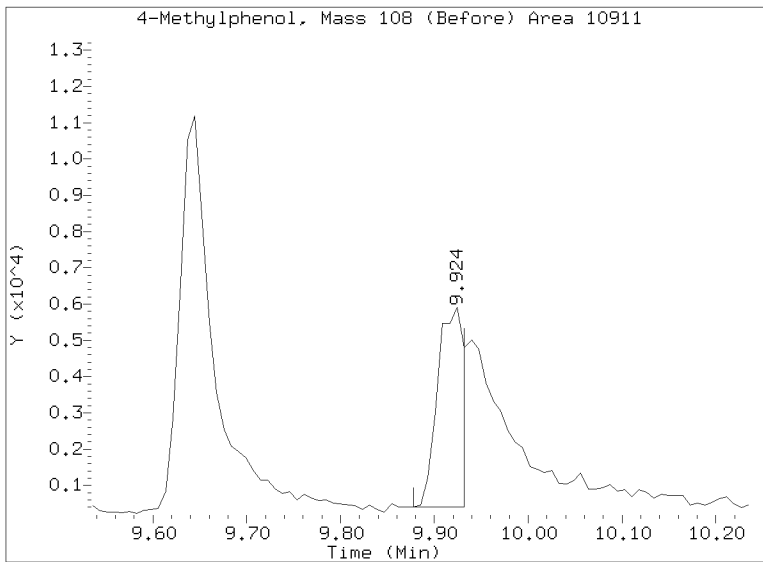
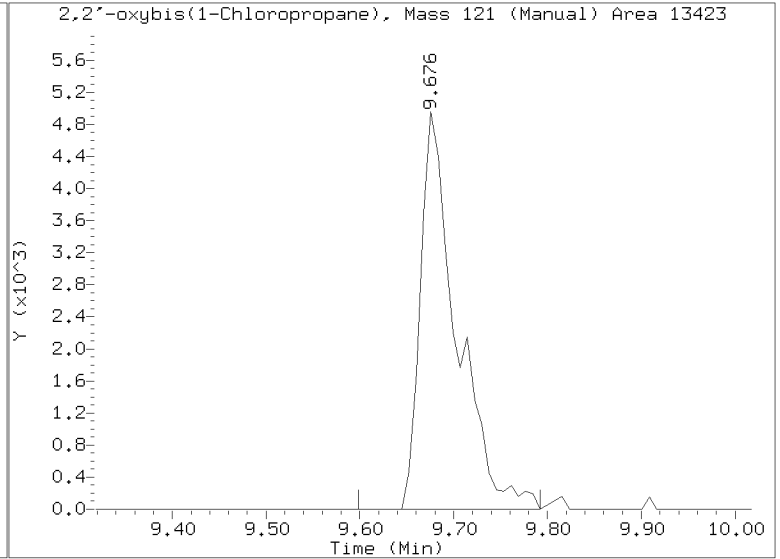
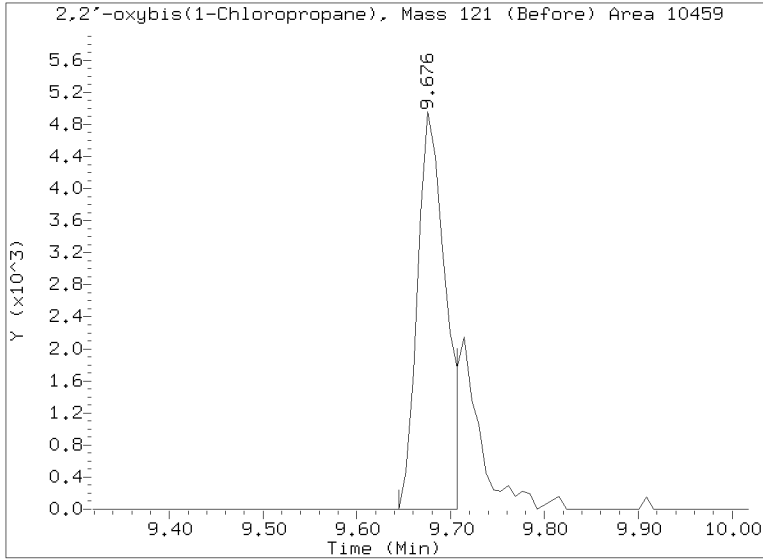
Quant Ion Manual Peak Adjustment Report

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Injection Date: 14-JUL-2022 15:00

Lab ID:SKG0139-LCV1 Client ID:

Report Date: 07/19/2022 12:55



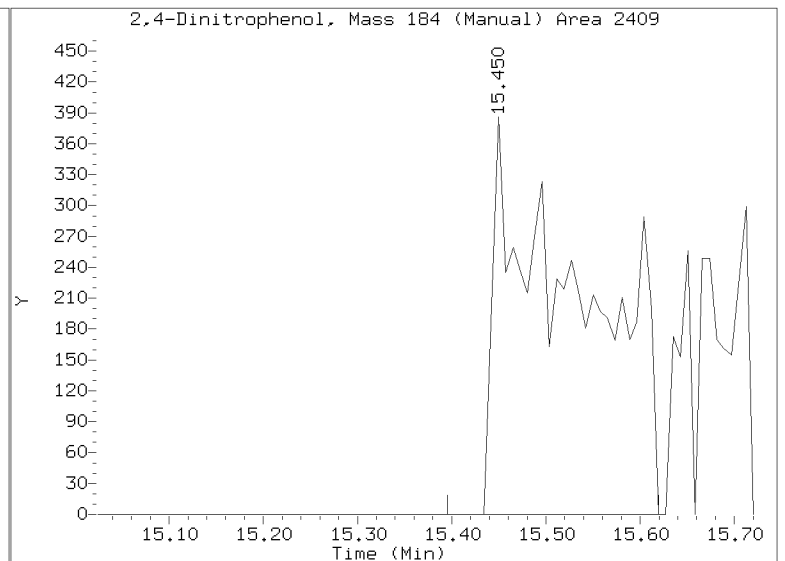
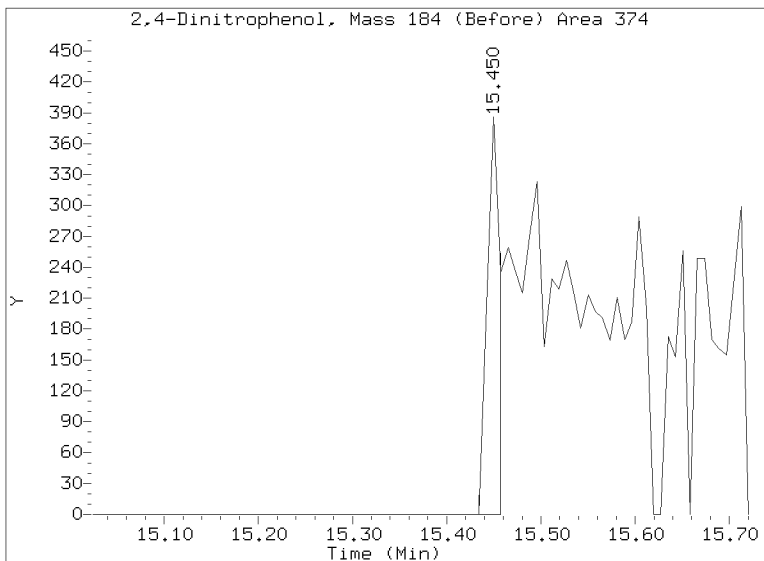
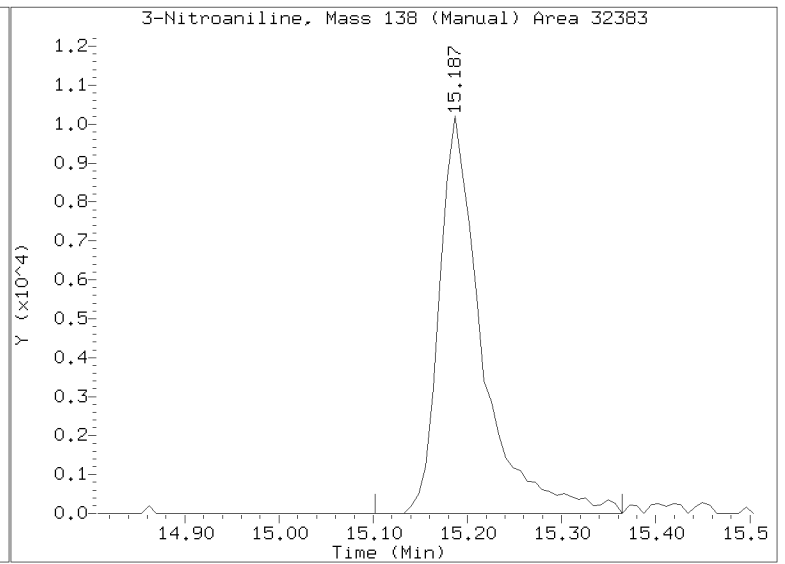
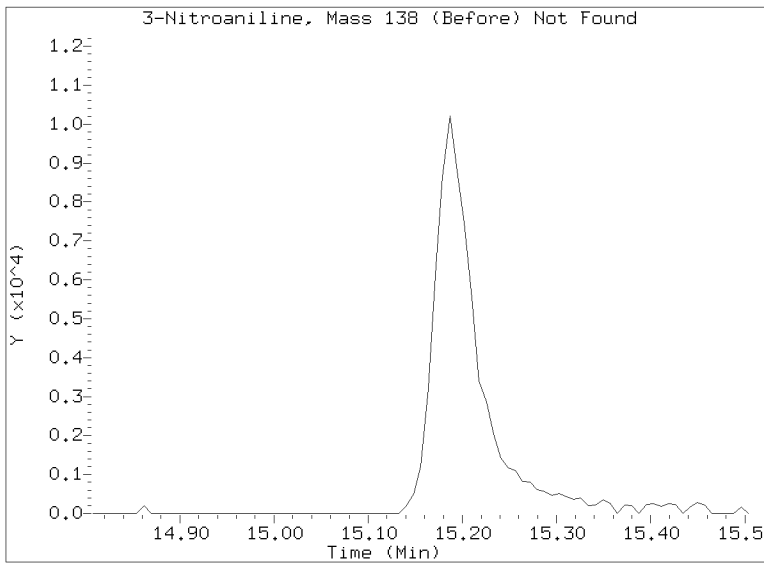
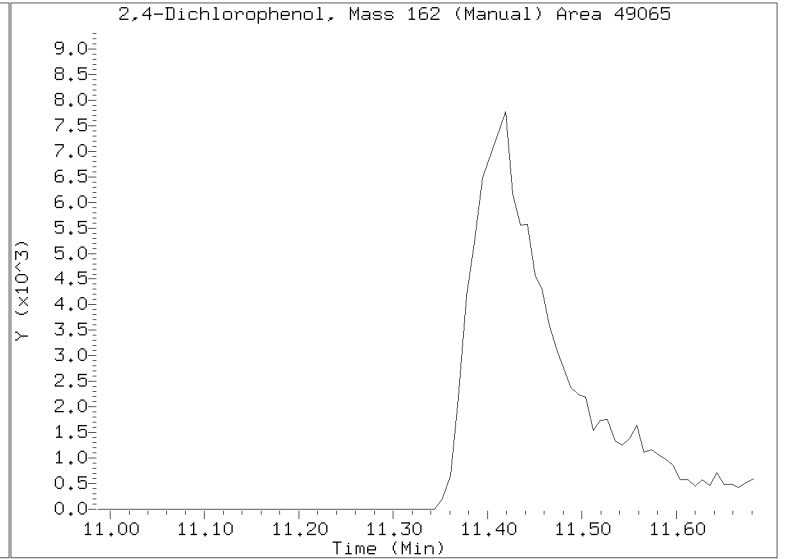
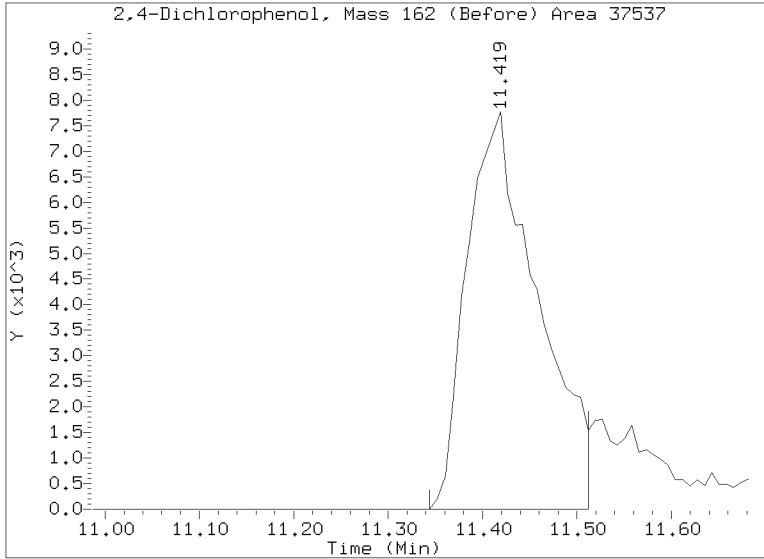
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Injection Date: 14-JUL-2022 15:00

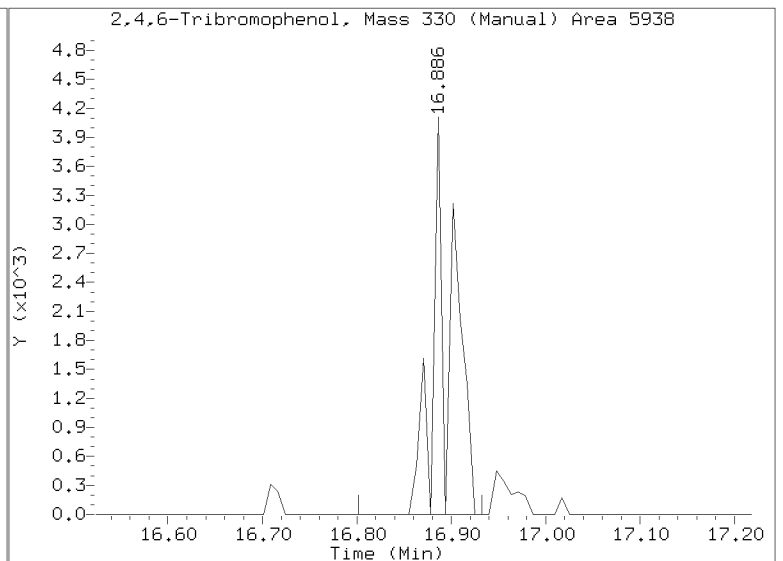
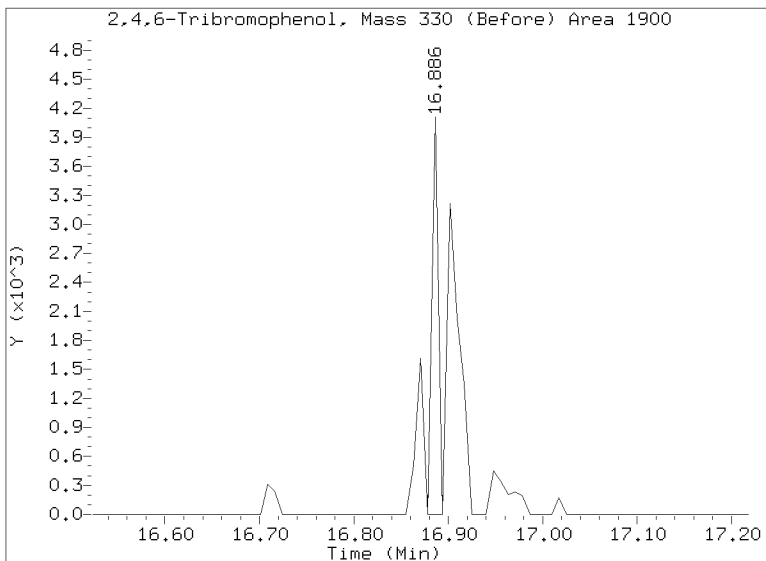
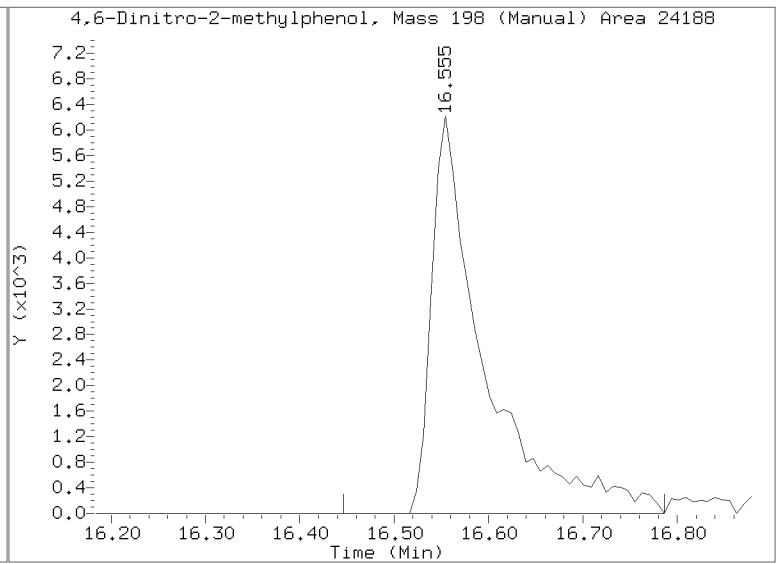
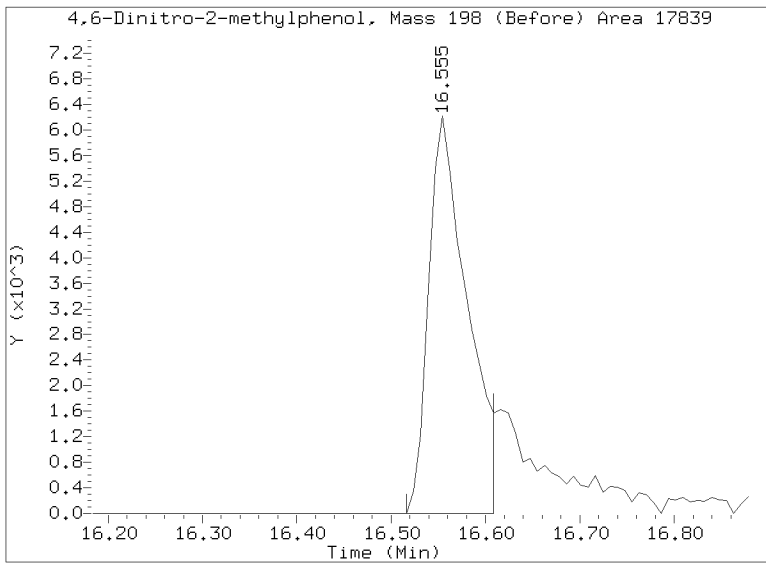
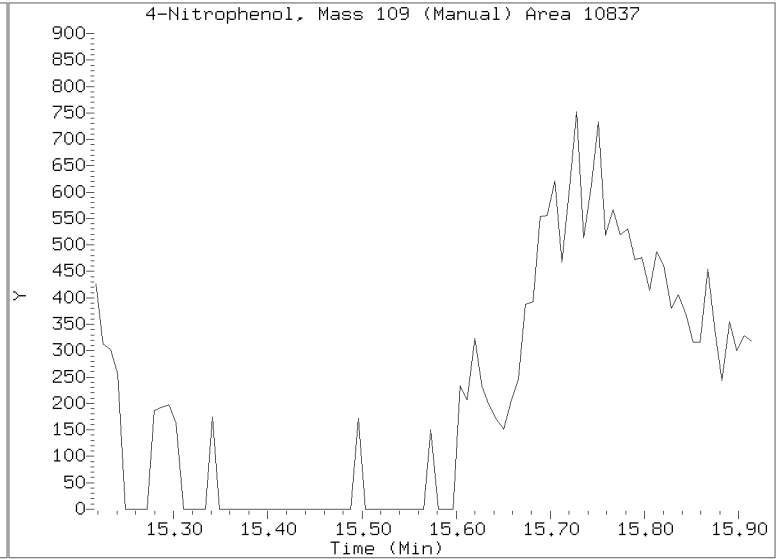
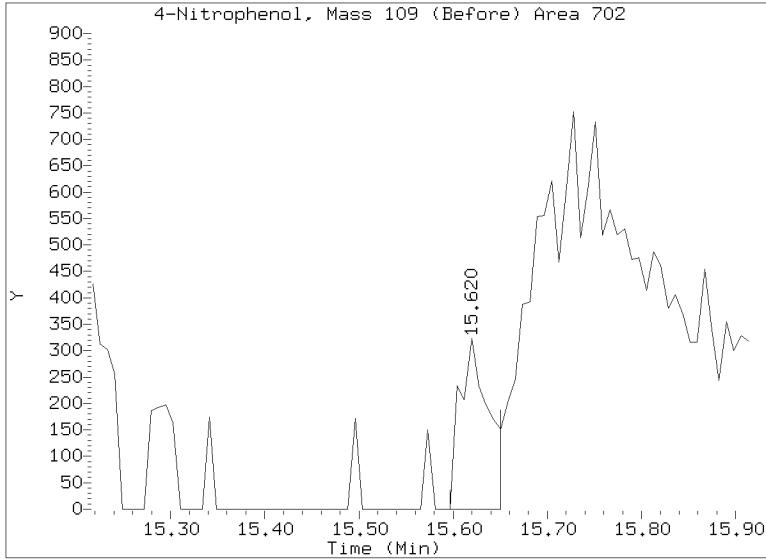
Lab ID:SKG0139-LCV1 Client ID:

Report Date: 07/19/2022 12:55



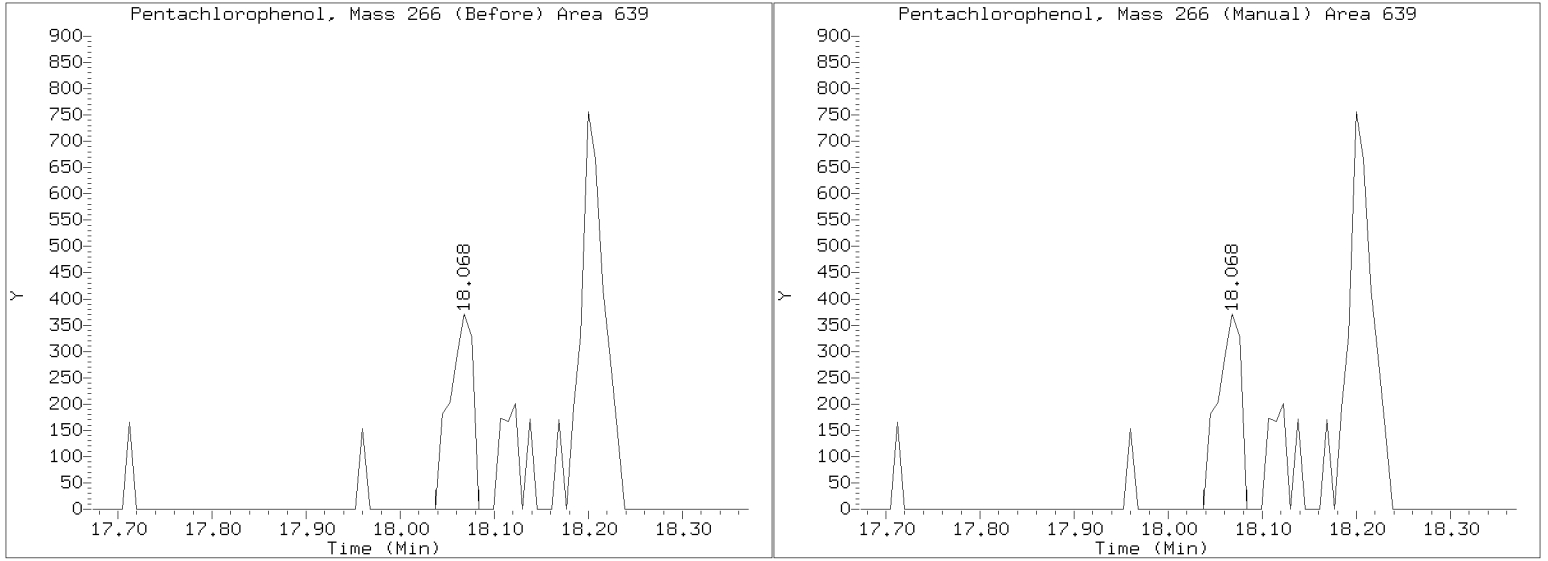
Quant Ion Manual Peak Adjustment Report

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Injection Date: 14-JUL-2022 15:00
Lab ID:SKG0139-LCV1 Client ID:
Report Date: 07/19/2022 12:55



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220714.b/NT1022071403.D
Injection Date: 14-JUL-2022 15:00
Lab ID:SKG0139-LCV1 Client ID:
Report Date: 07/19/2022 12:55





CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071521.D

Calibration Date: 06/23/2022

Sequence: SKG0154

Injection Date: 07/16/22

Lab Sample ID: SKG0154-CCV1

Injection Time: 01:11

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Naphthalene	A	5.0000	5.3	1.0237250	1.0811440		5.6	+/-50
2-Methylnaphthalene	A	5.0000	5.6	1.0174370	1.1398140		12.0	+/-50
Acenaphthene	A	5.0000	5.5	1.1633080	1.2699670		9.2	+/-50
Pentachlorophenol	A	10.000	4.8	0.0462824	0.0292880		-52.1	+/-50 *
Phenanthrene	A	5.0000	5.3	1.0508770	1.1054430		5.2	+/-50
Fluoranthene	A	5.0000	6.6	2.5859780	3.9014610		31.7	+/-50
Benzo(a)anthracene	A	5.0000	4.1	1.6949770	1.3782490		-18.7	+/-50
Chrysene	A	5.0000	3.4	1.1695310	0.8001353		-31.2	+/-50
Benzo(b)fluoranthene	A	5.0000	4.4	1.8115340	1.6105290		-11.1	+/-50
Benzo(k)fluoranthene	A	5.0000	4.6	1.7419410	1.6066920		-7.8	+/-50
Benzo(a)pyrene	A	5.0000	4.3	1.4826420	1.2699460		-14.3	+/-50
Indeno(1,2,3-cd)pyrene	A	5.0000	4.9	1.5830350	1.5630460		-1.3	+/-50
Dibenzo(a,h)anthracene	A	5.0000	5.2	1.2118700	1.2570700		3.7	+/-50
1-Methylnaphthalene	A	5.0000	5.4	0.9995882	1.0702030		7.1	+/-50
2-Fluorophenol	A	7.5000	7.59	1.4606150	1.4779870		1.2	+/-50
Phenol-d5	A	7.5000	8.10	2.1672350	2.3416840		8.0	+/-50
2-Chlorophenol-d4	A	7.5000	7.64	1.4882780	1.5151050		1.8	+/-50
1,2-Dichlorobenzene-d4	A	5.0000	5.17	0.9170783	0.9477957		3.3	+/-50
Nitrobenzene-d5	A	5.0000	5.08	0.4256249	0.4327676		1.7	+/-50
2-Fluorobiphenyl	A	5.0000	5.58	1.8101110	2.0189960		11.5	+/-50
2,4,6-Tribromophenol	A	7.5000	7.19	0.1582114	0.1747250		-4.1	+/-50
p-Terphenyl-d14	A	5.0000	5.86	1.3958840	1.6361390		17.2	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220715.6\NT1022071521.D

Date: 16-JUL-2022 01:11

Client ID:

Sample Info: SKC0154-CCW1

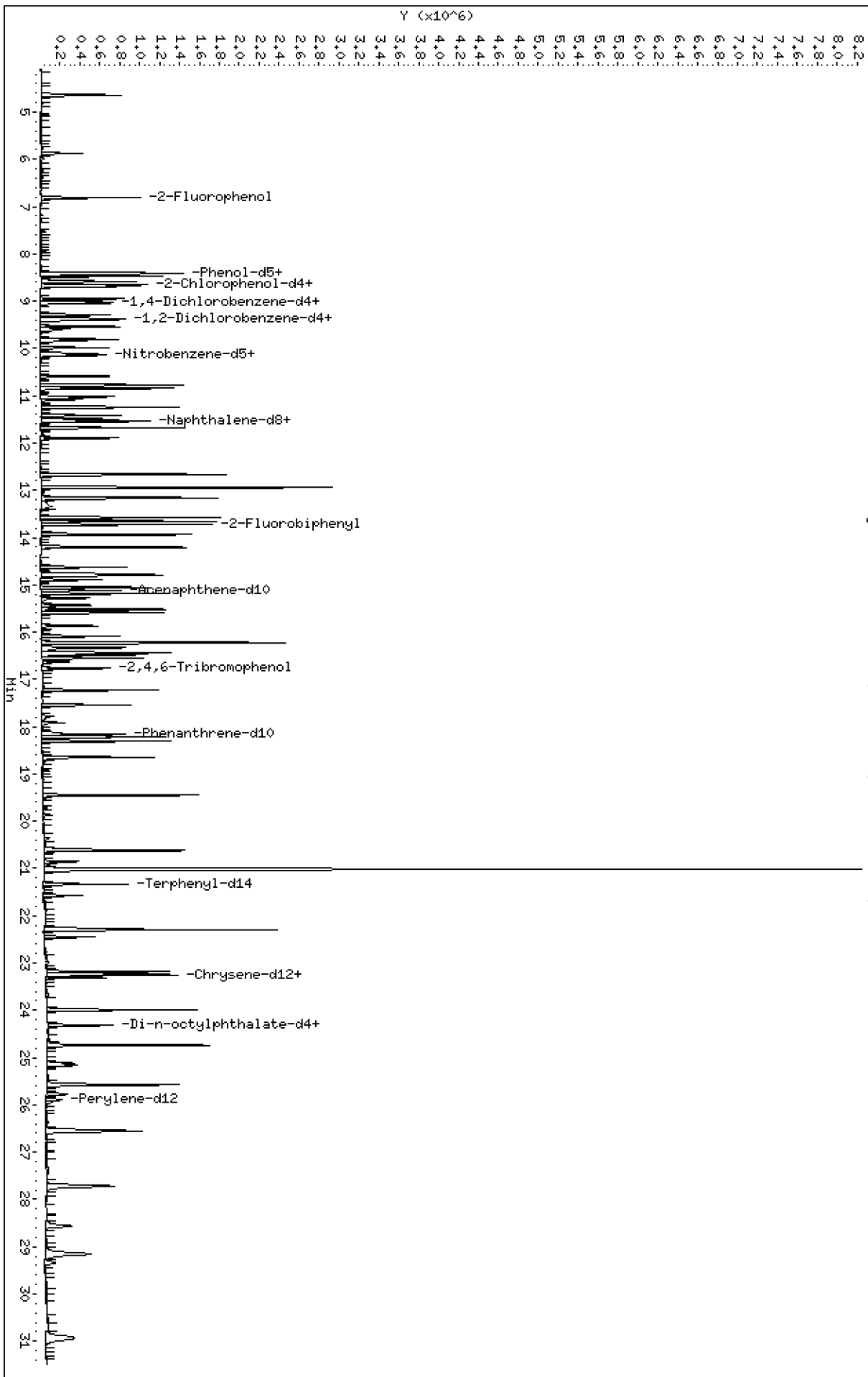
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20220715.6\NT1022071521.D



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

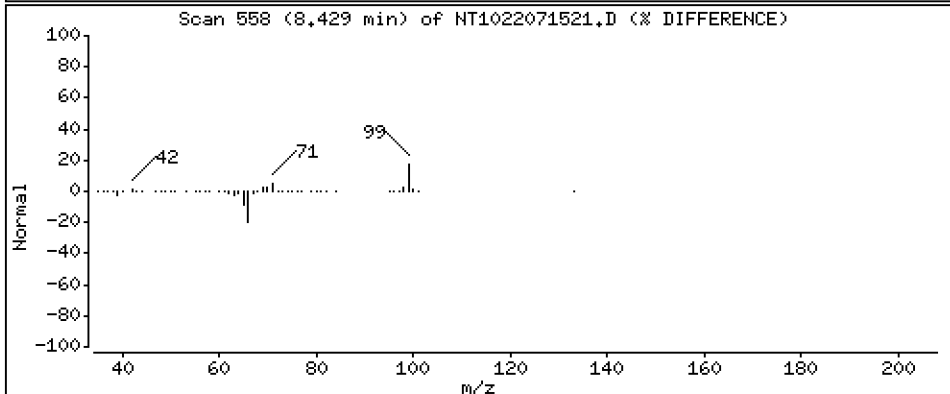
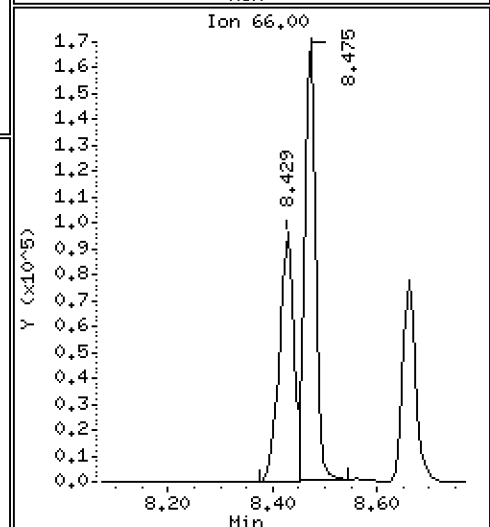
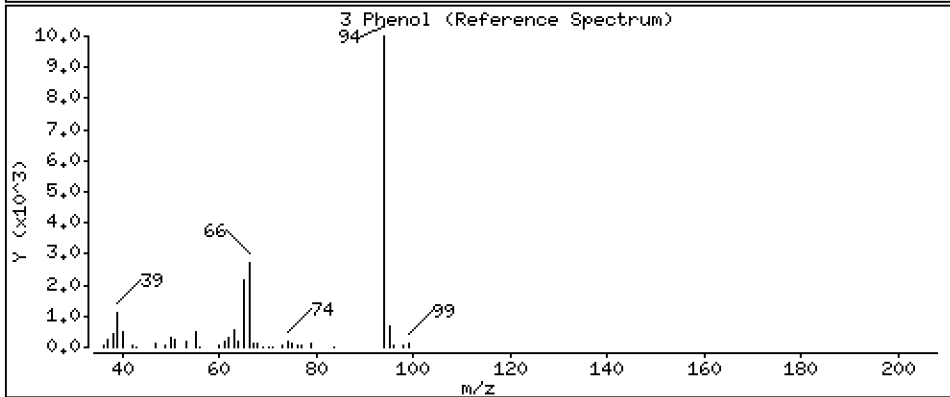
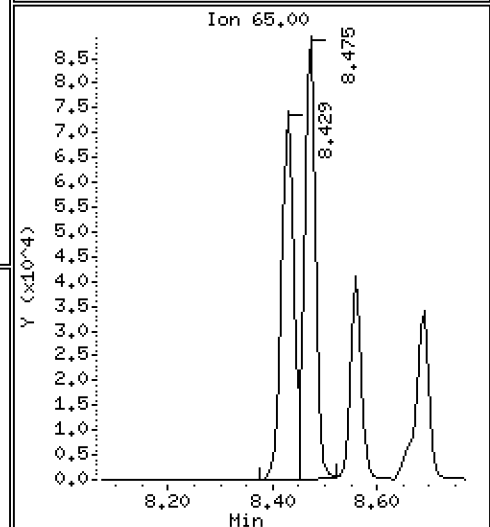
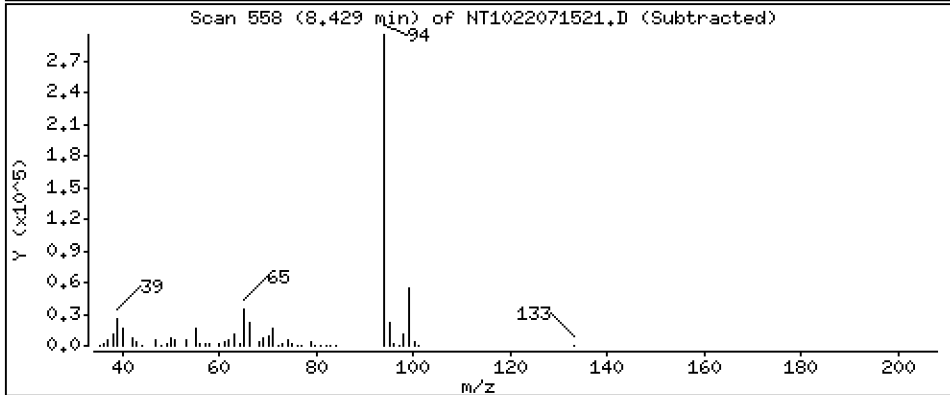
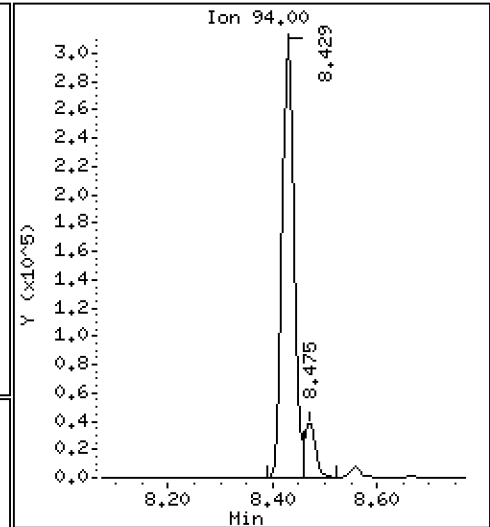
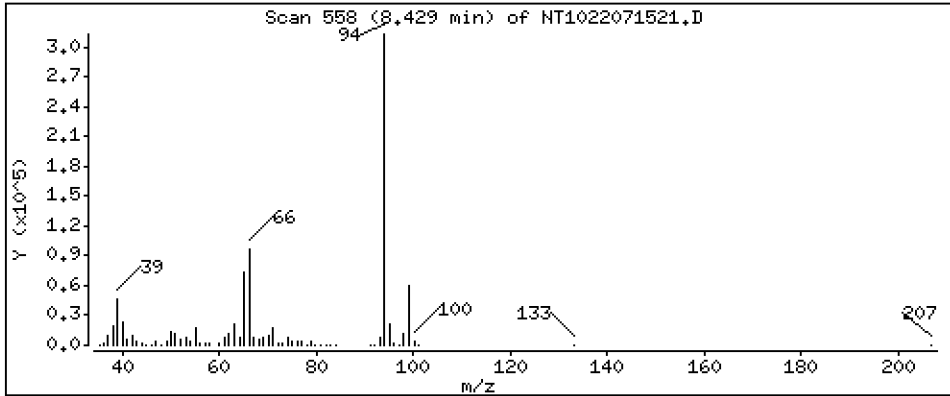
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 5,165 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

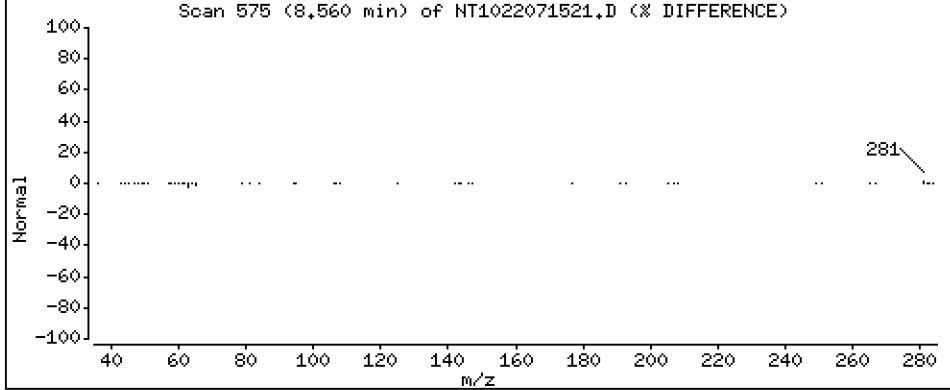
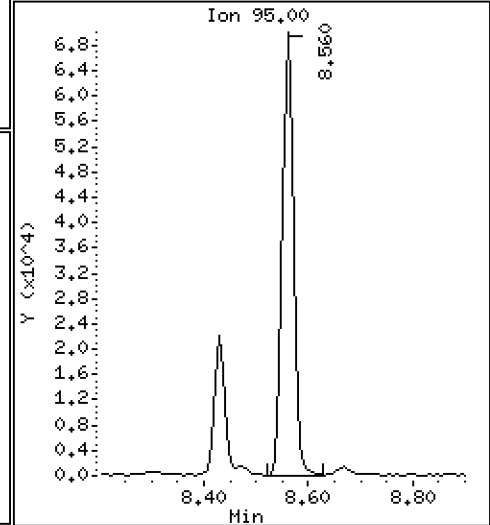
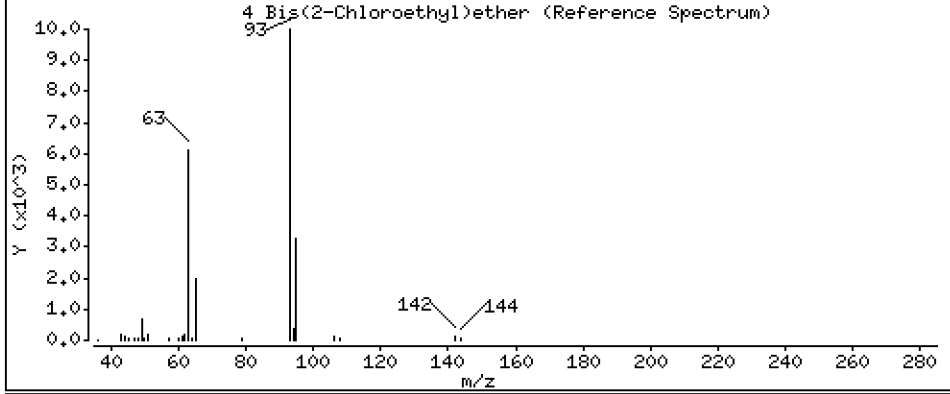
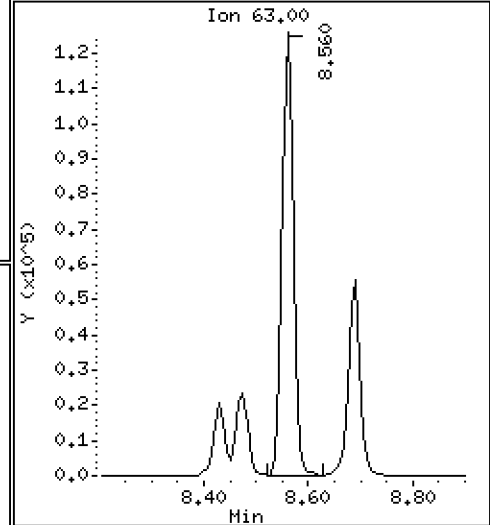
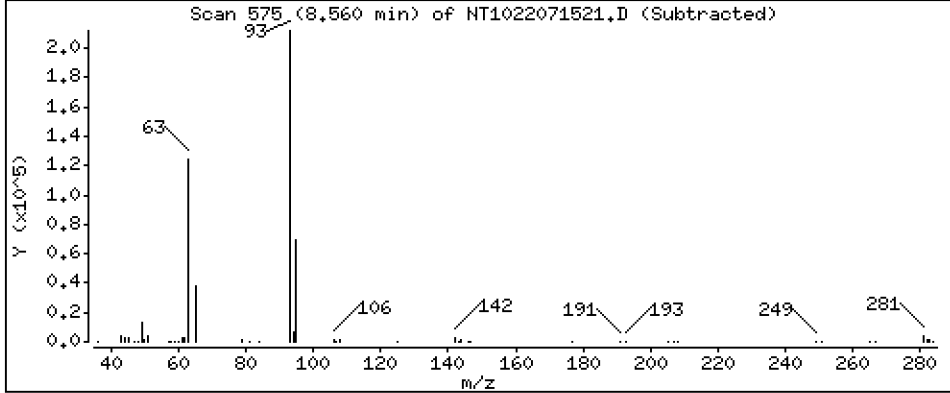
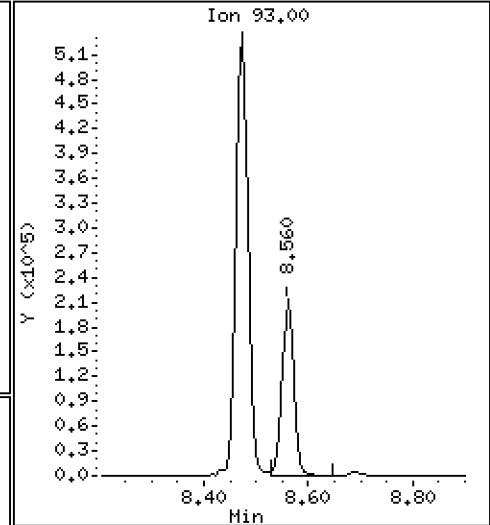
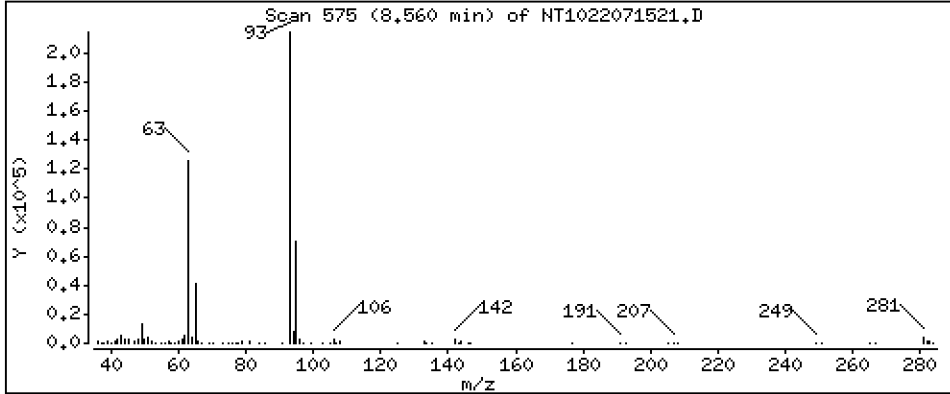
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,738 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

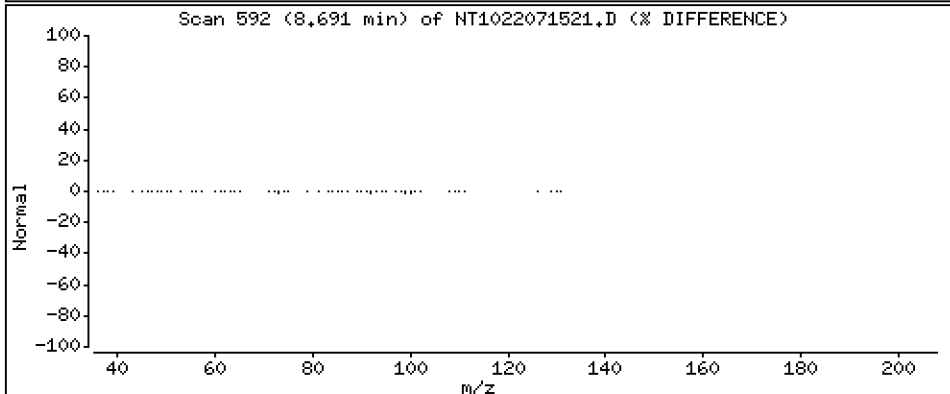
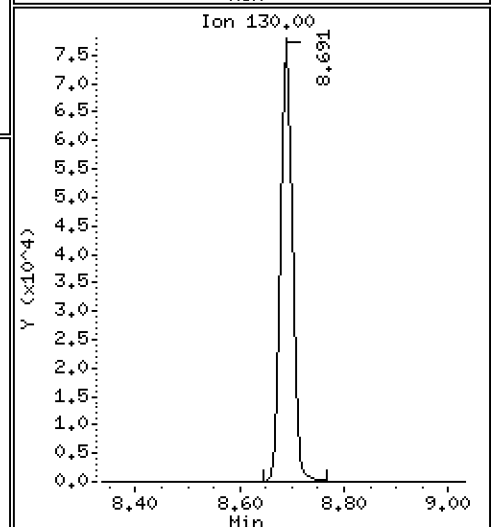
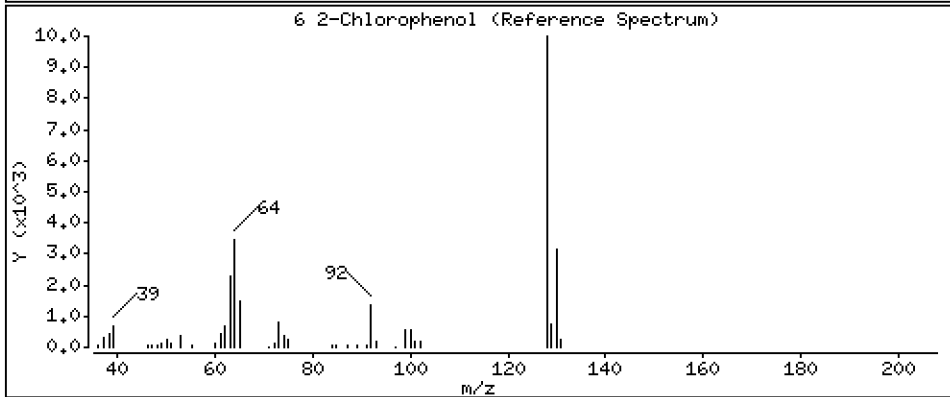
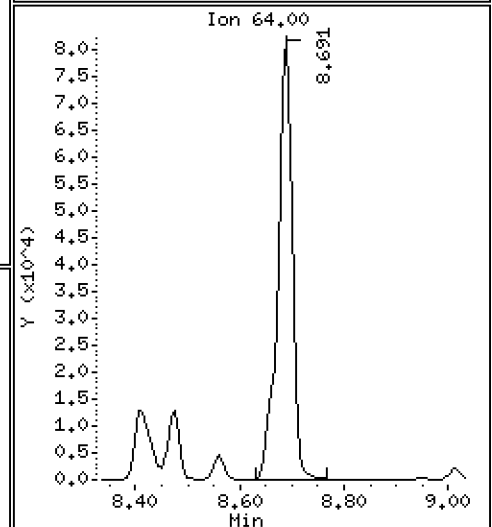
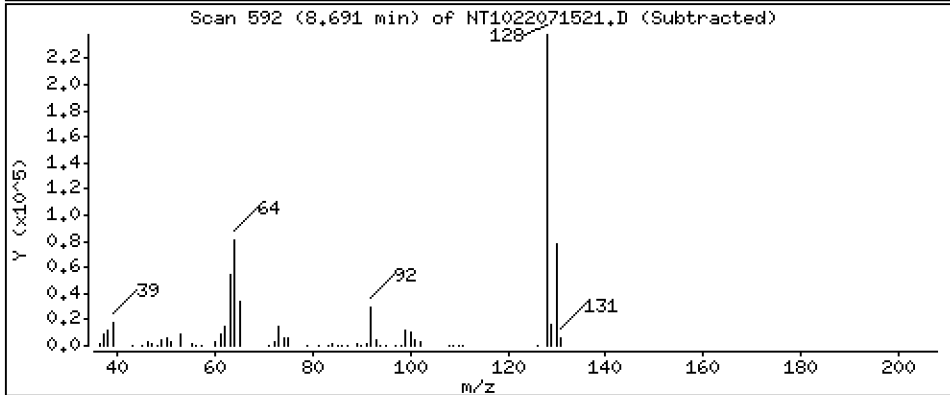
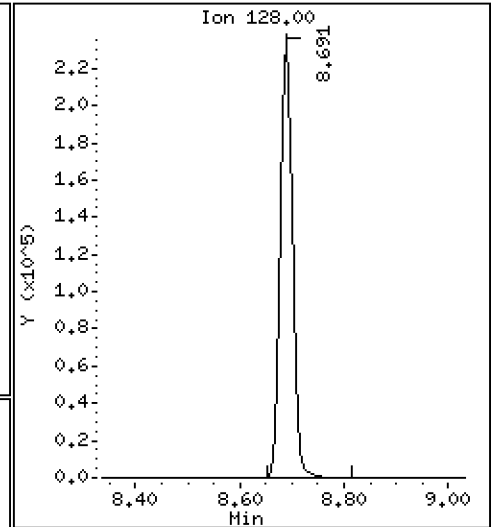
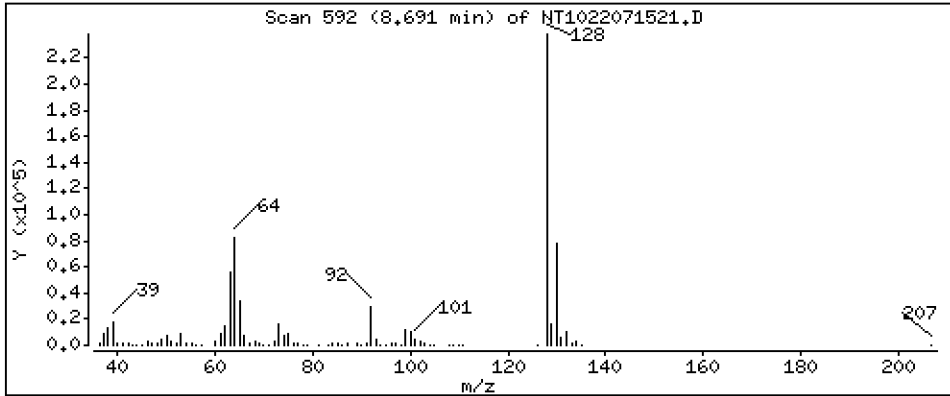
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 5,547 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

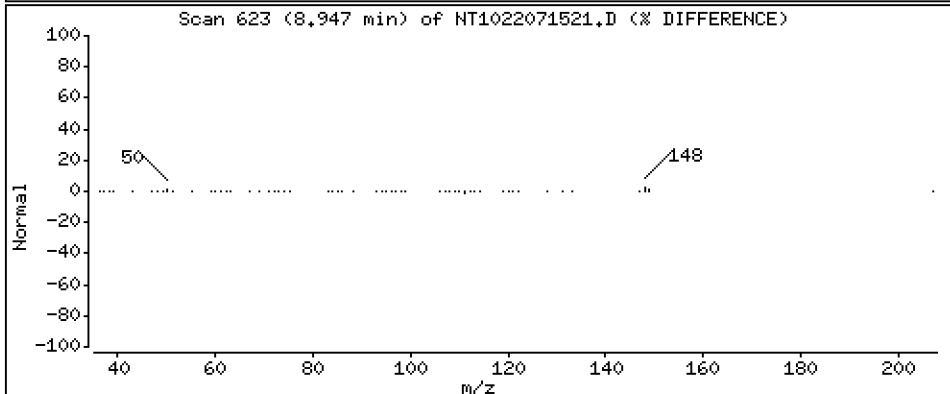
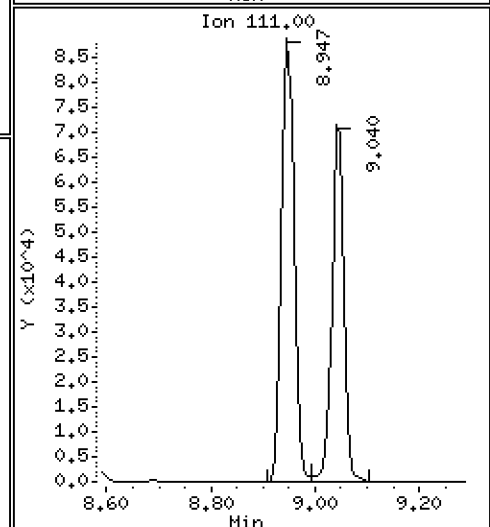
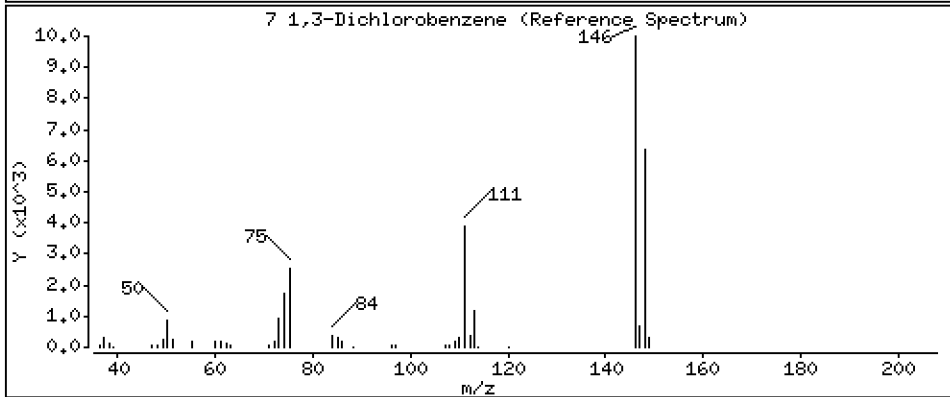
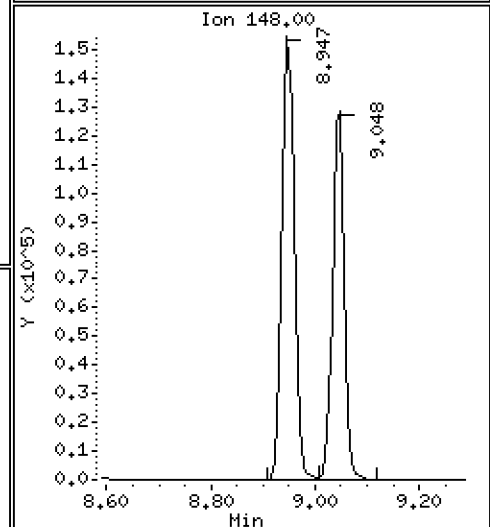
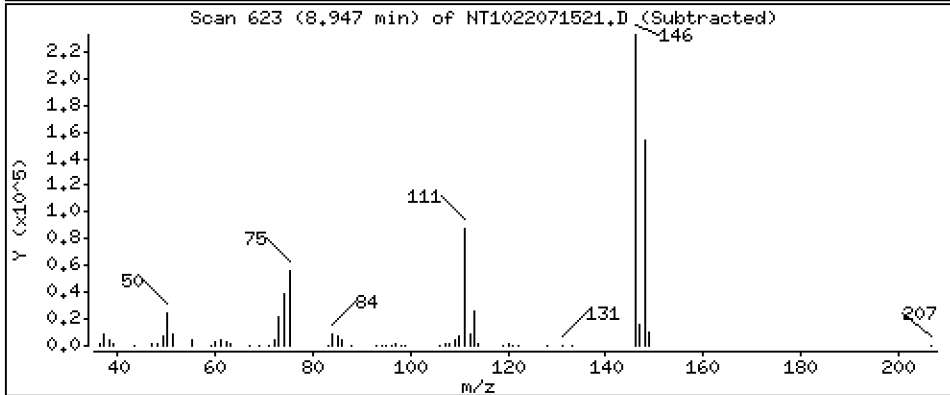
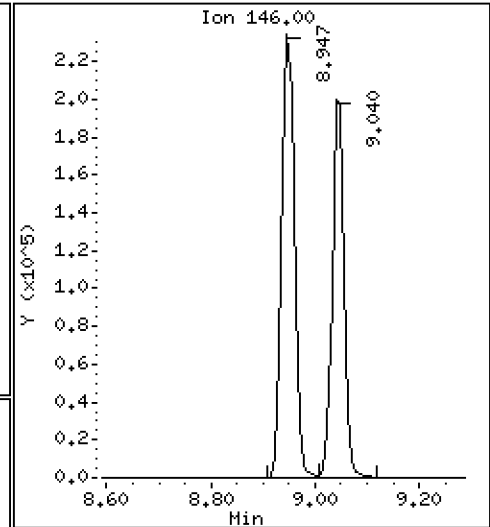
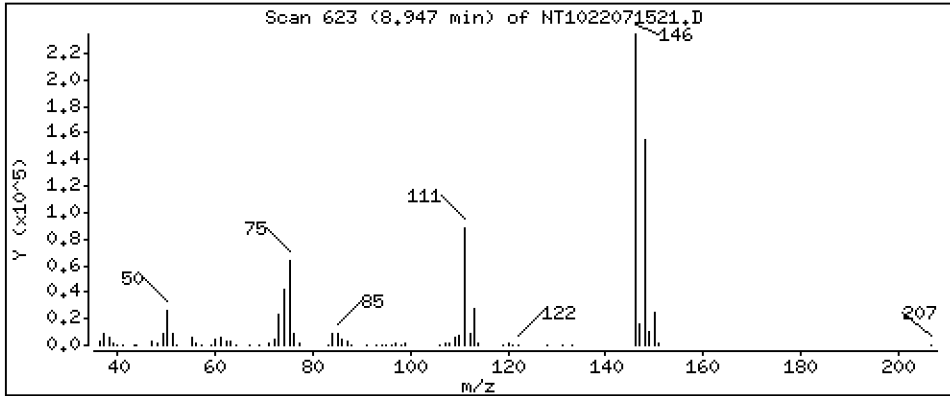
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,892 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

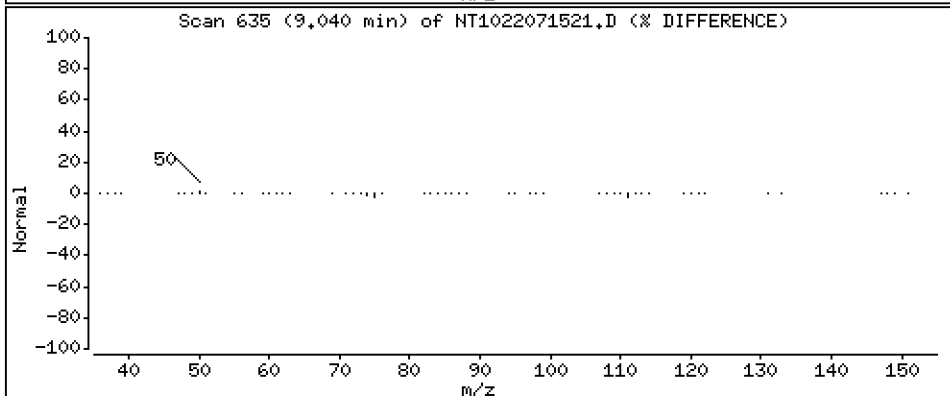
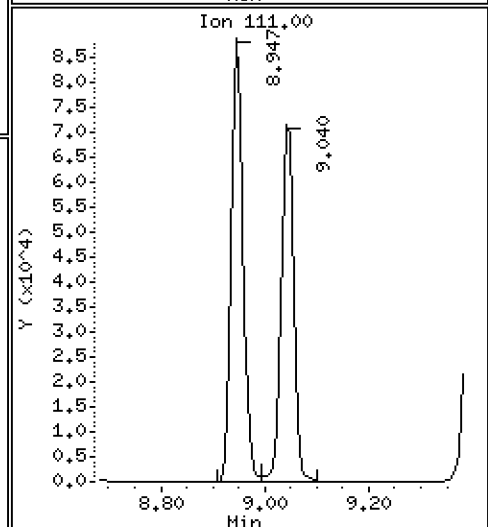
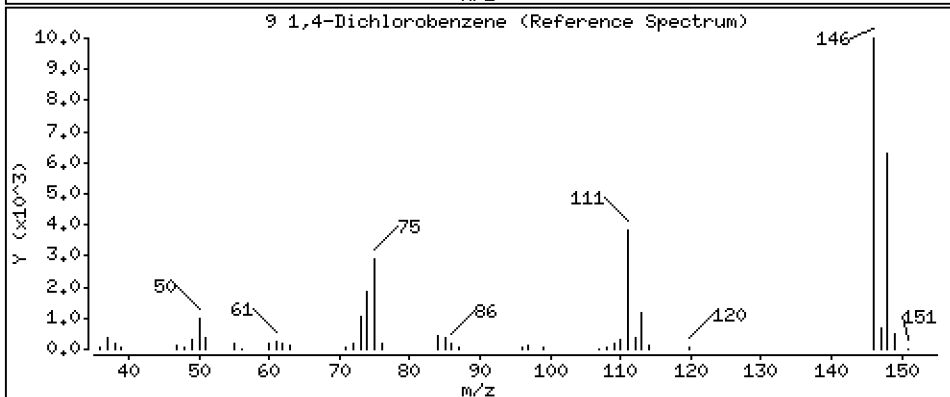
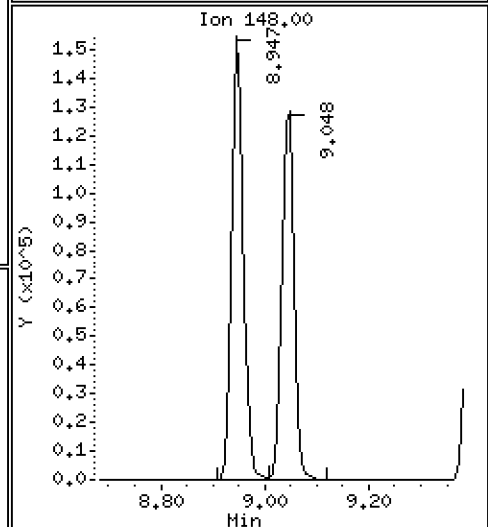
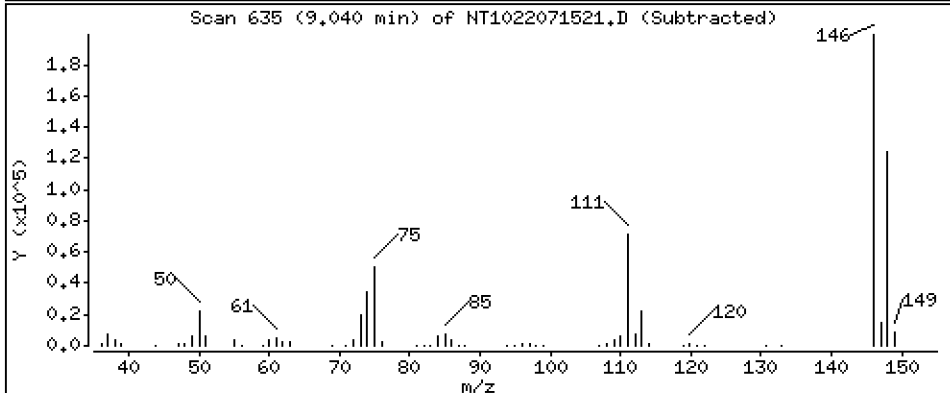
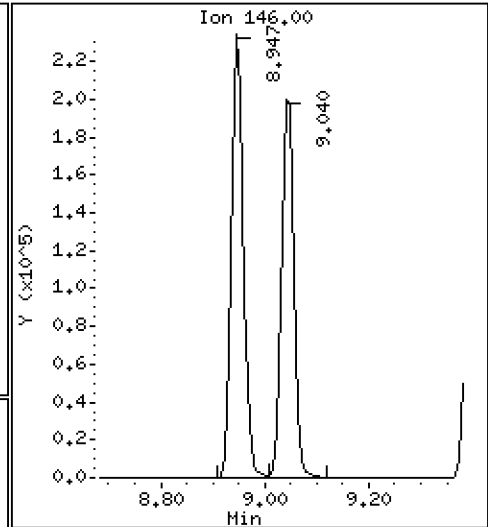
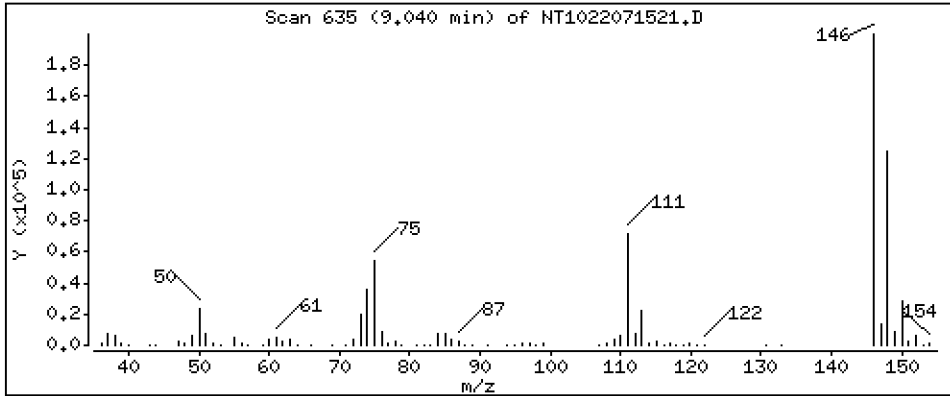
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 5,148 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

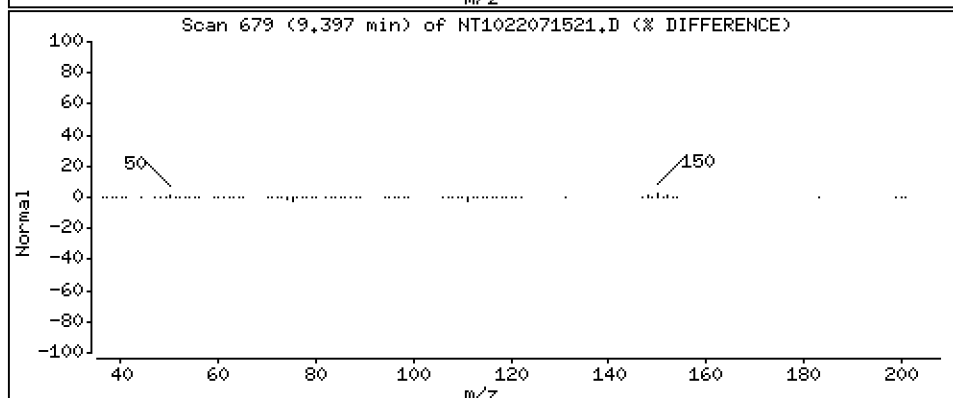
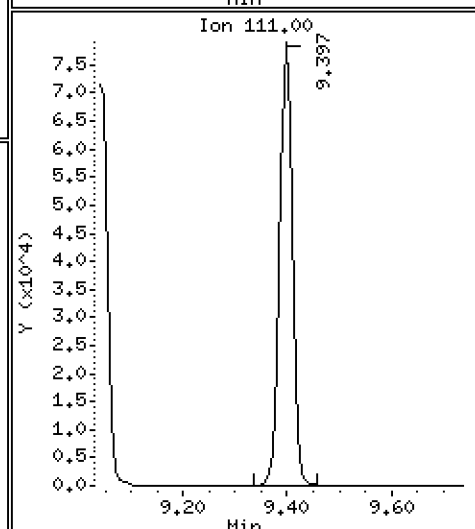
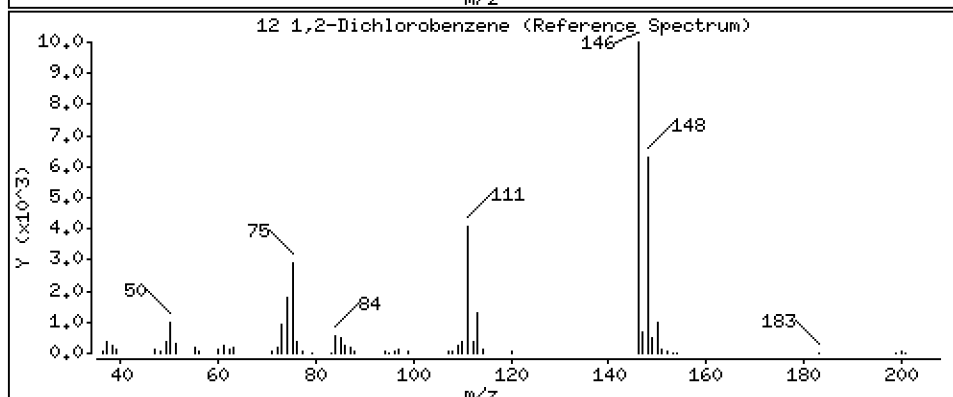
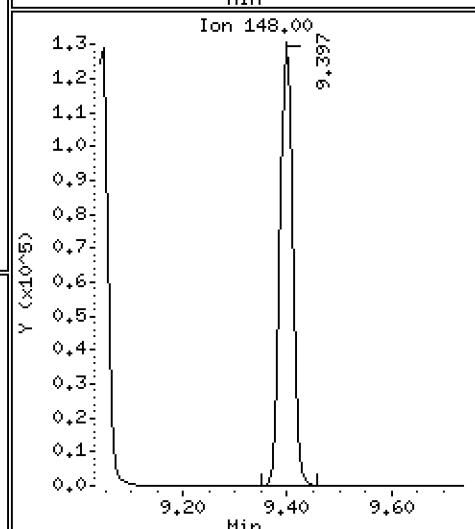
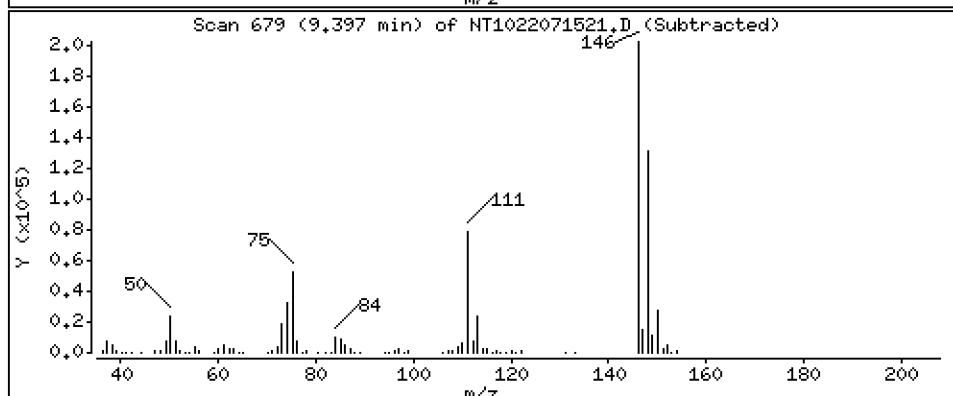
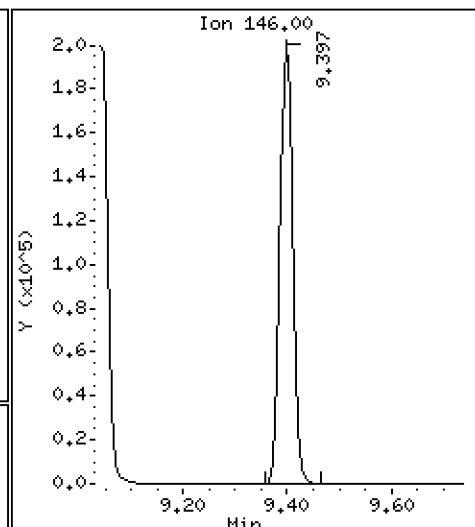
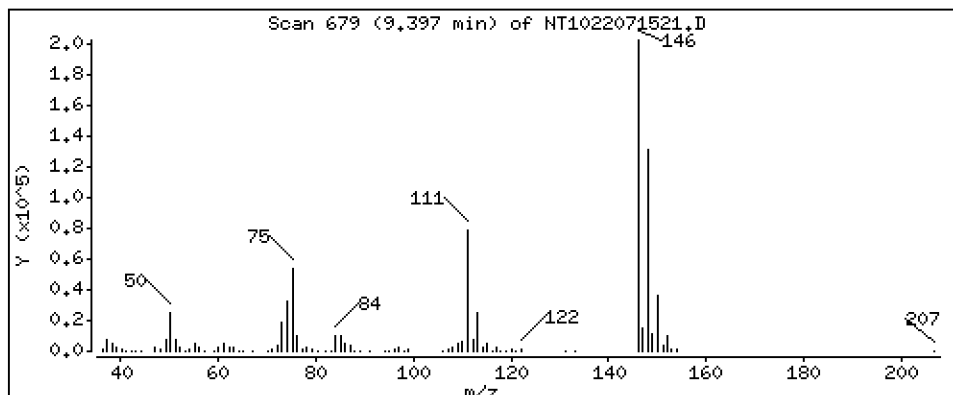
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 5,012 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

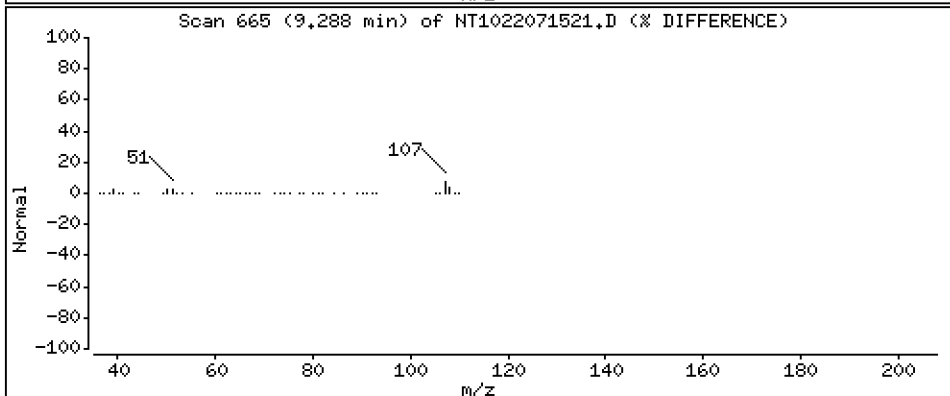
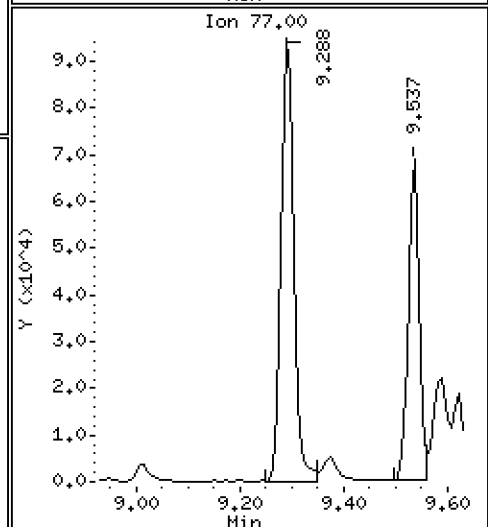
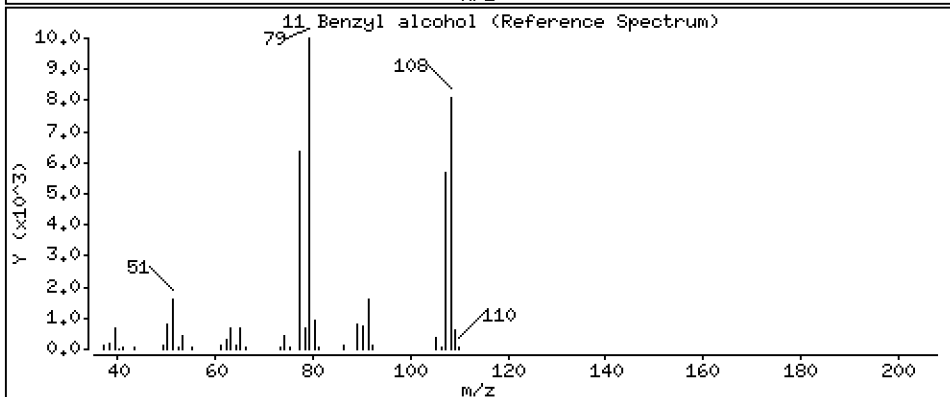
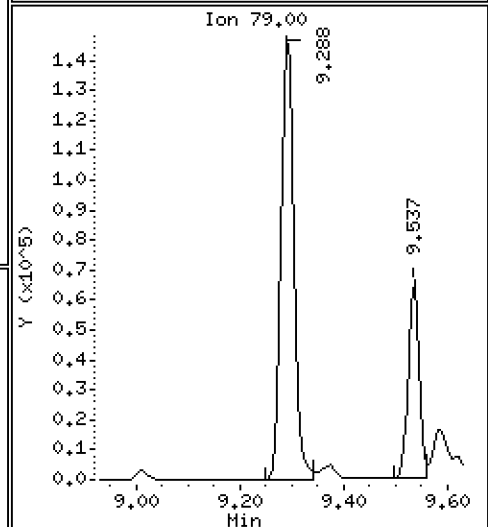
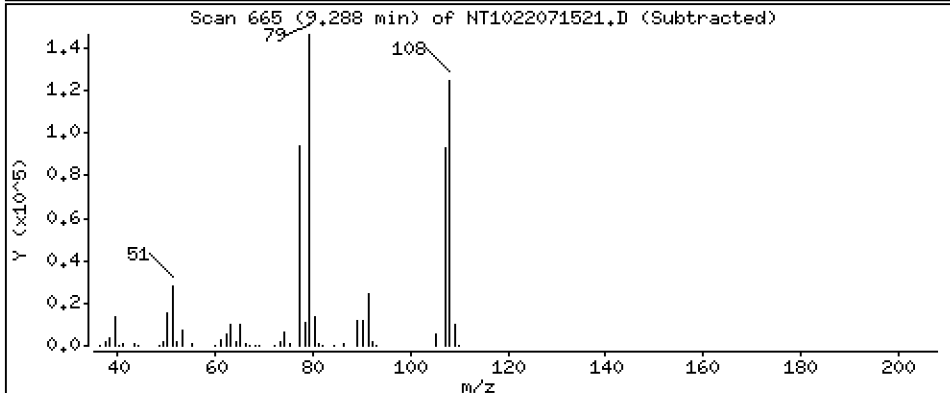
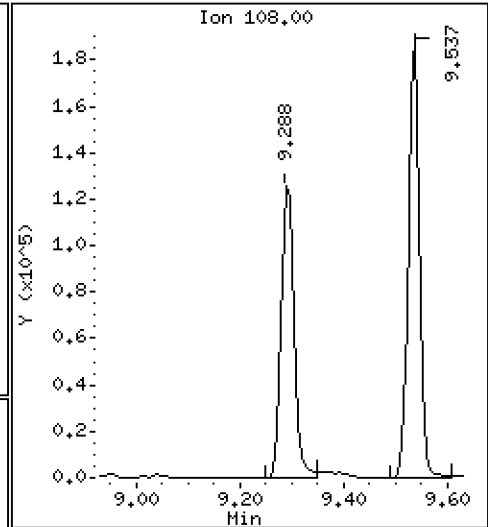
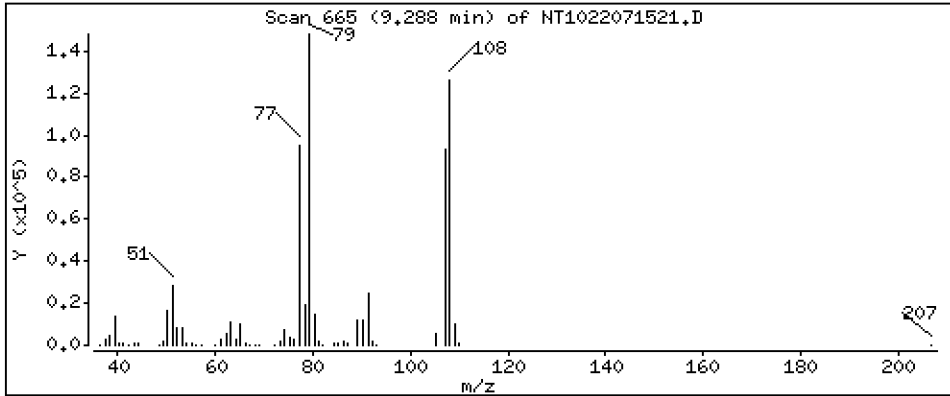
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 5,793 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

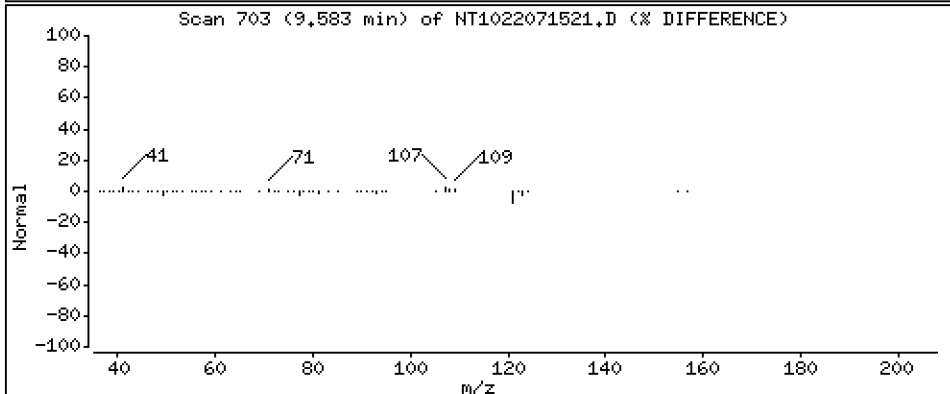
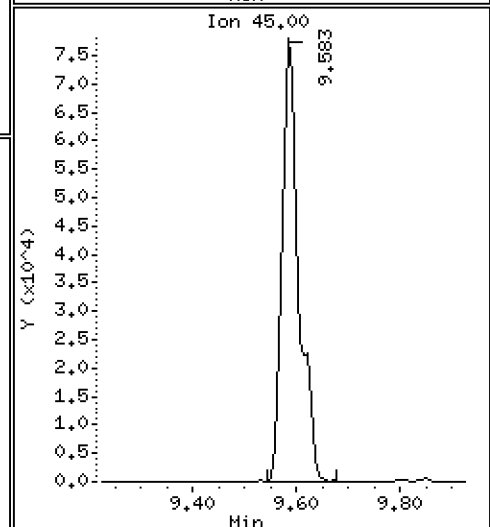
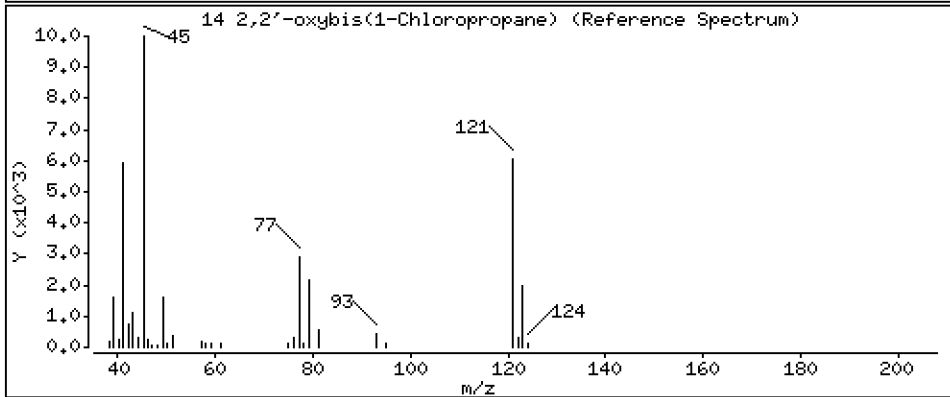
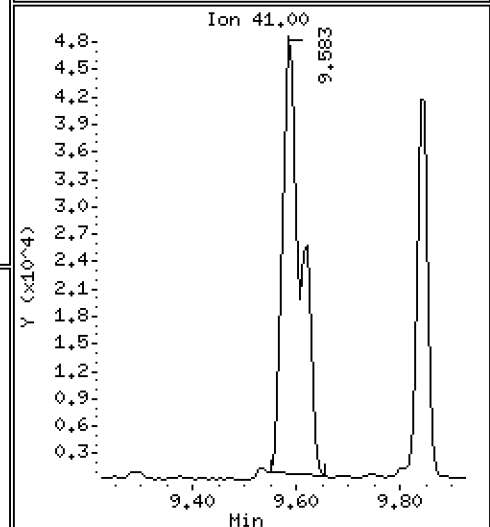
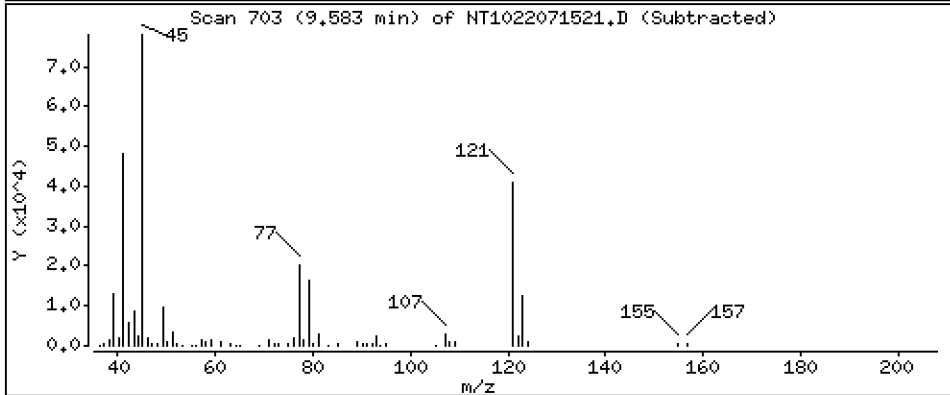
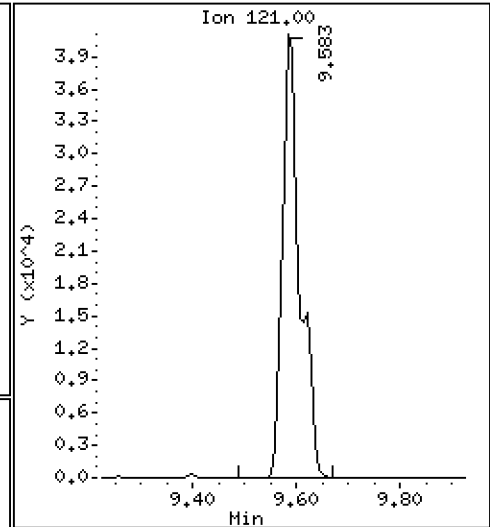
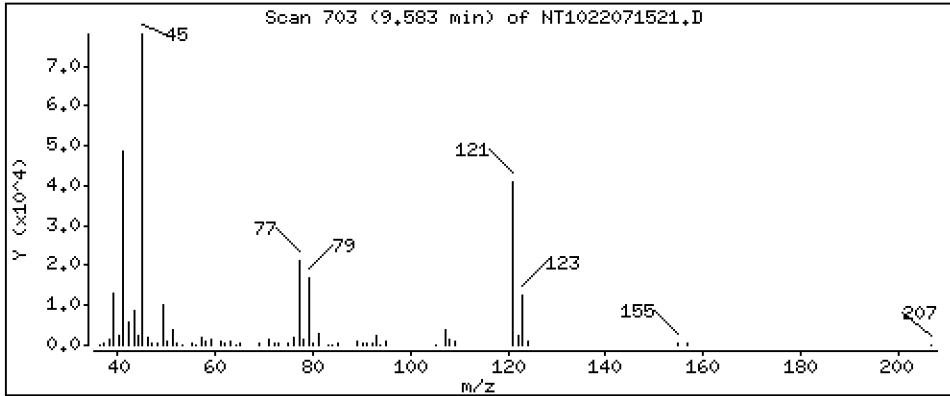
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 6,269 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

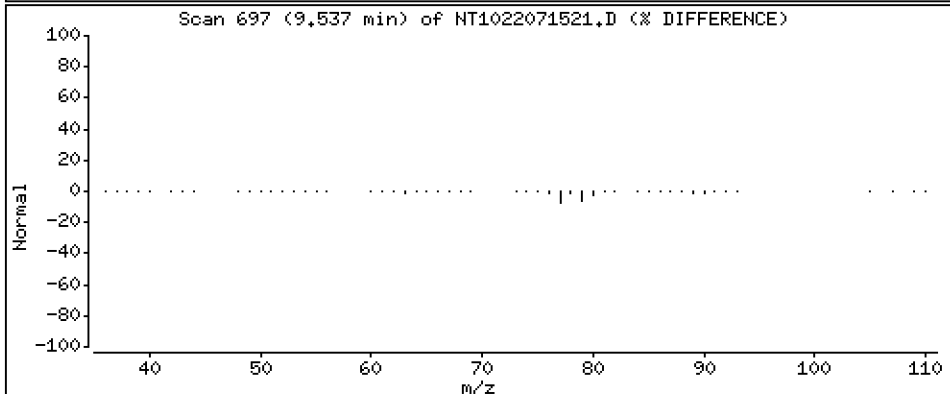
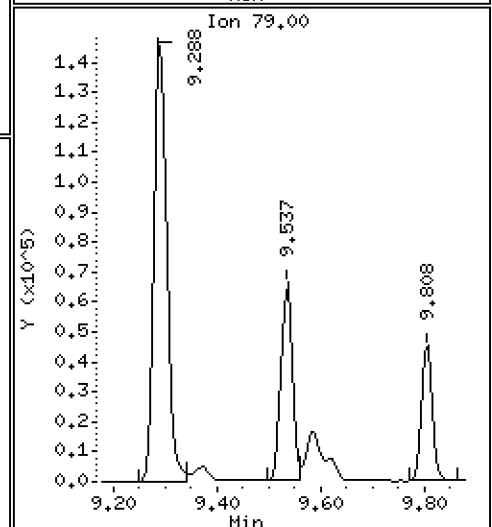
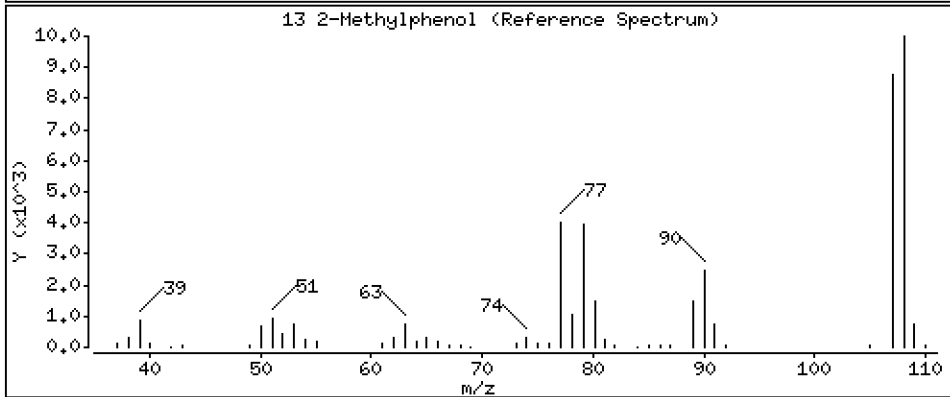
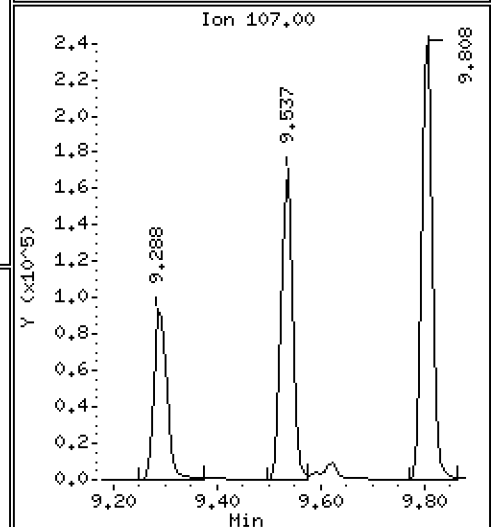
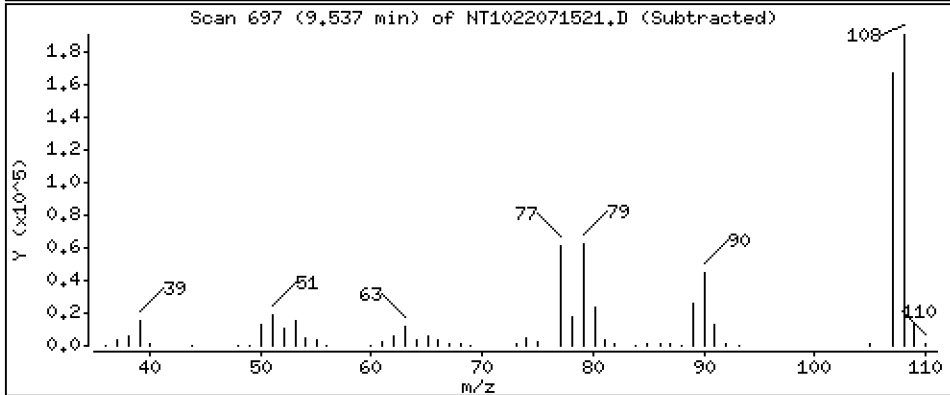
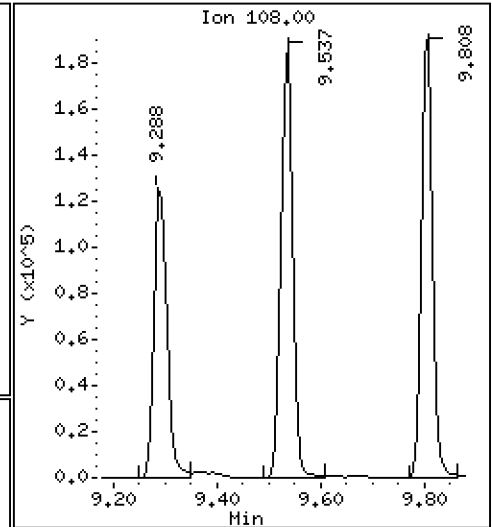
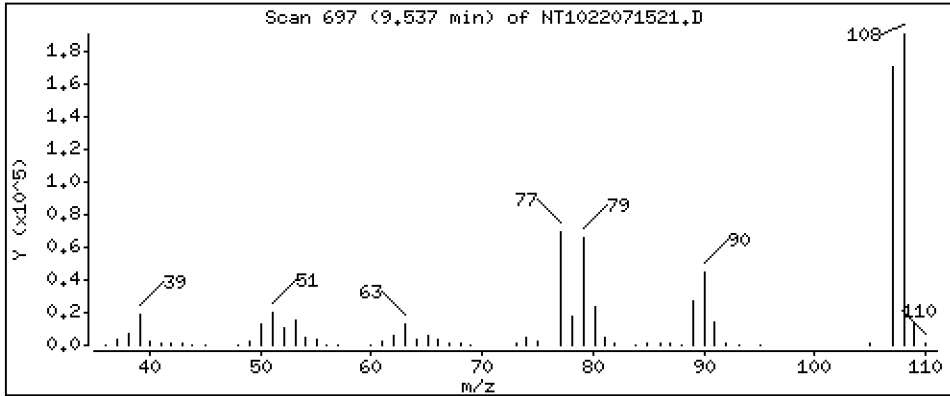
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 5.129 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

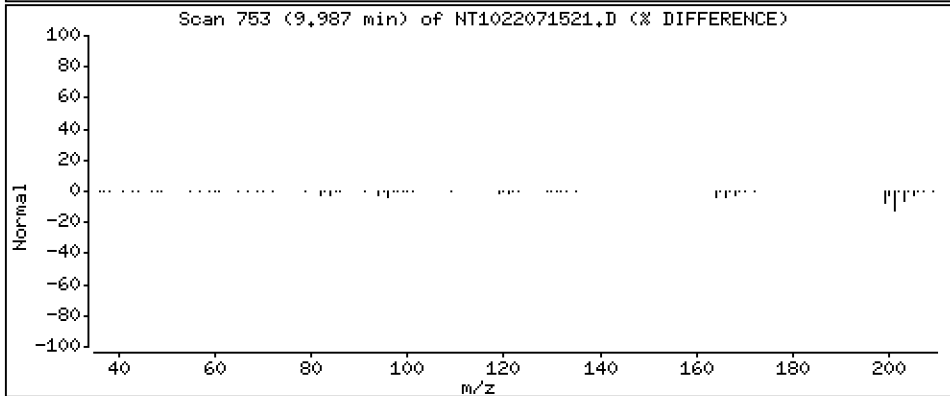
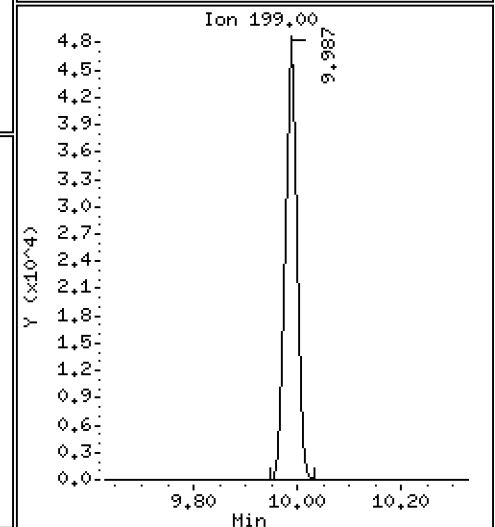
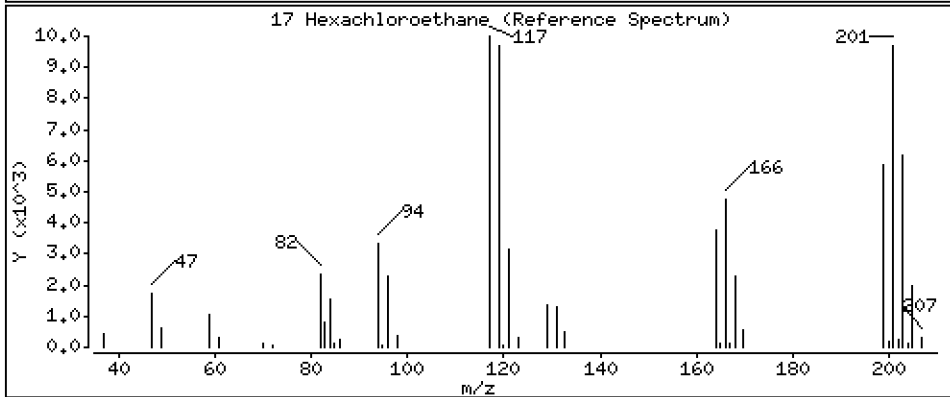
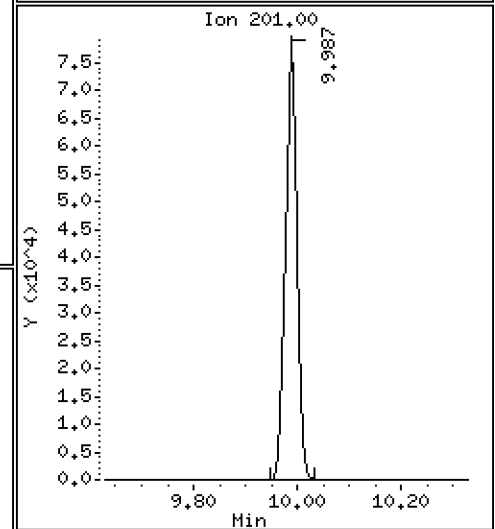
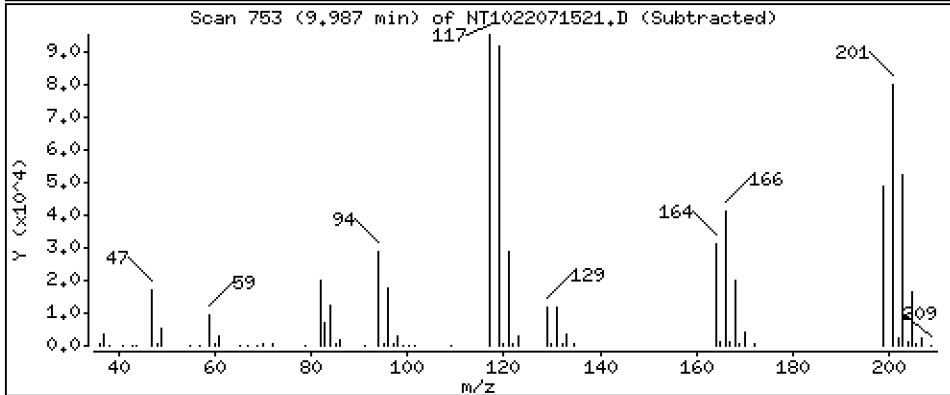
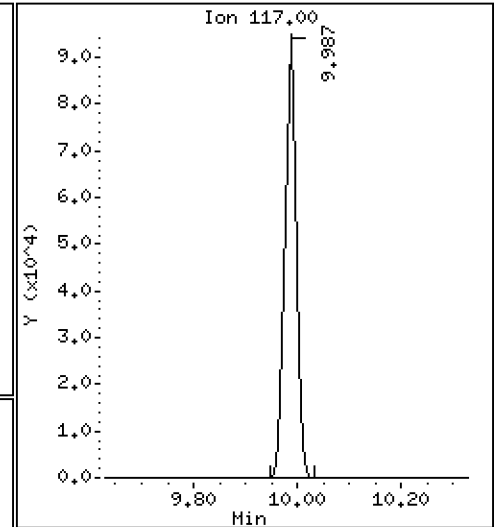
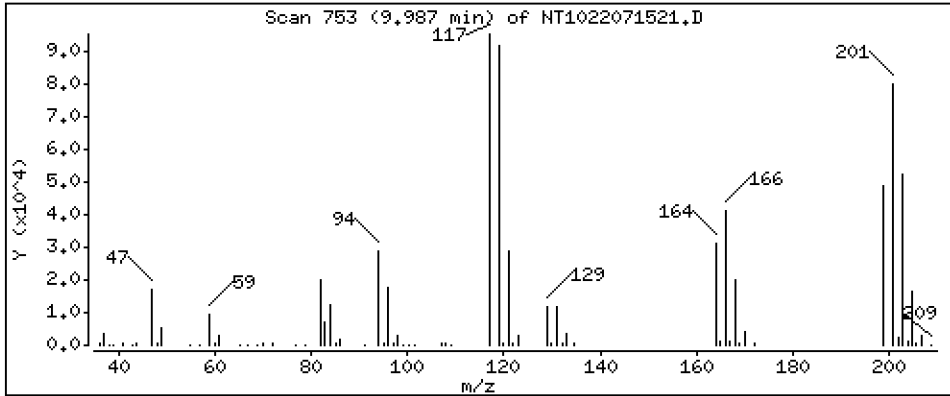
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,110 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

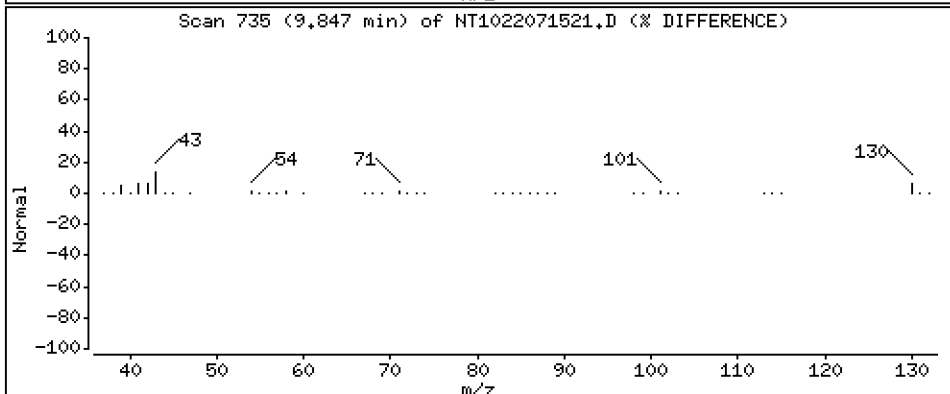
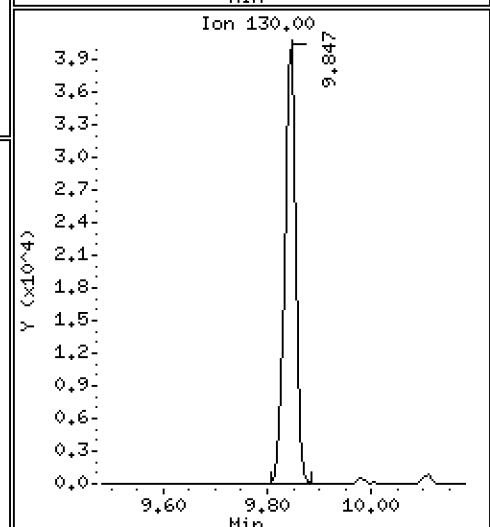
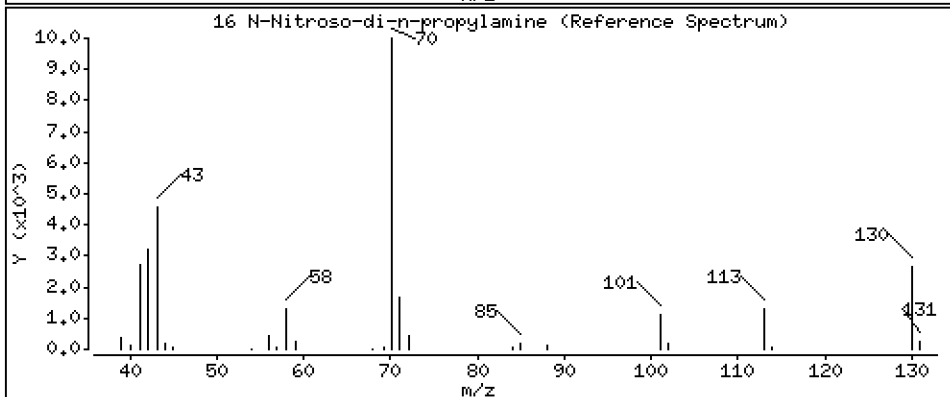
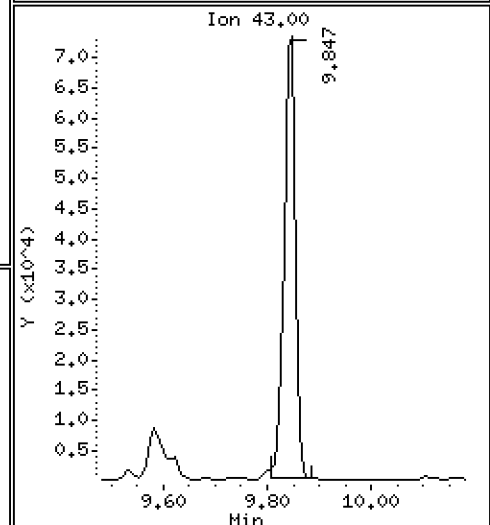
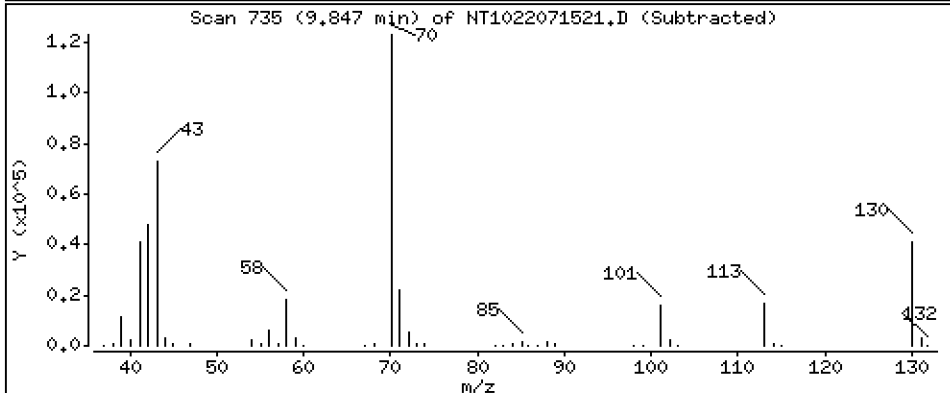
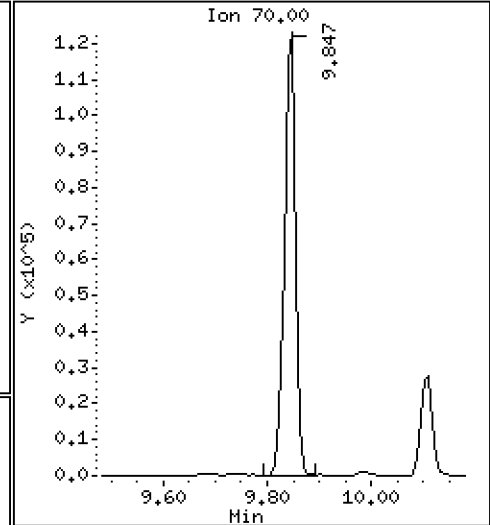
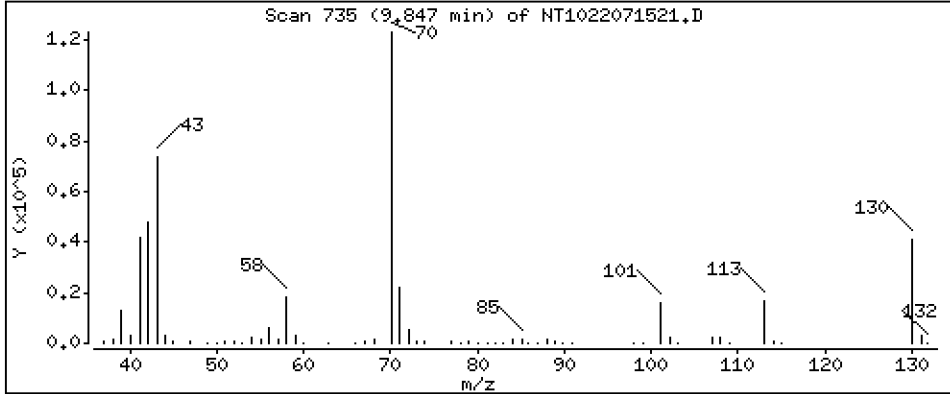
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 4,722 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

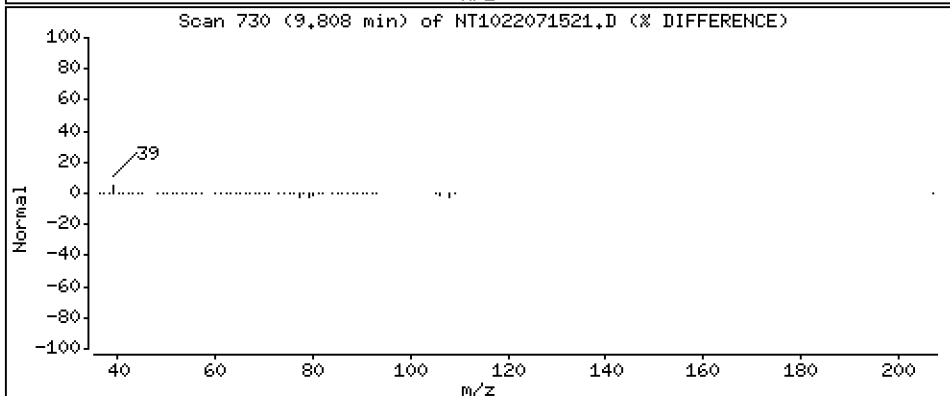
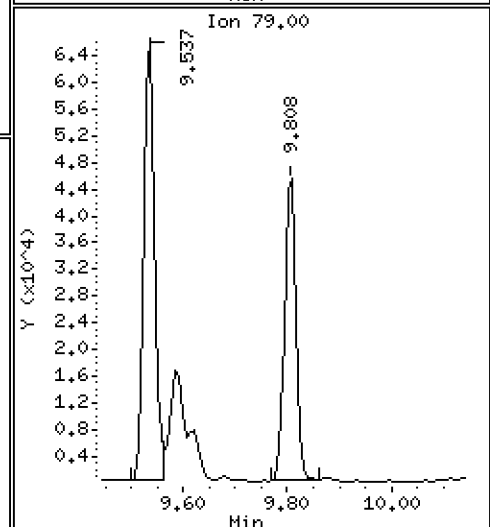
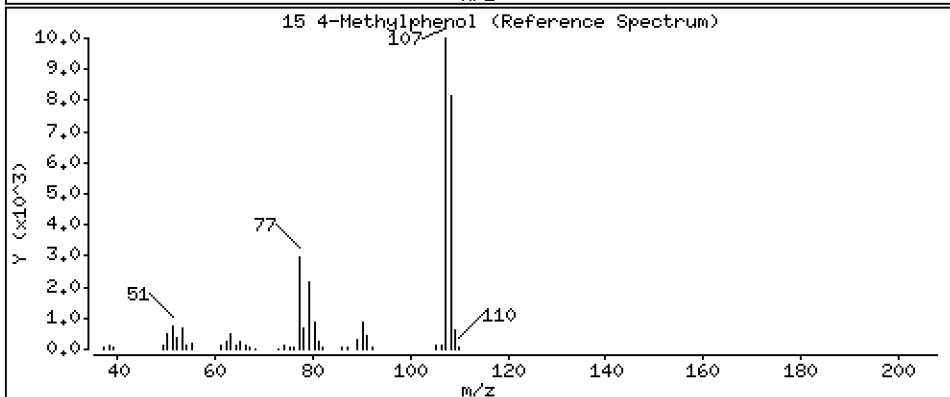
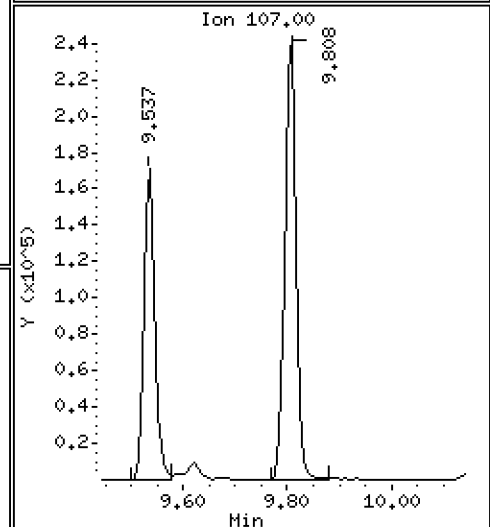
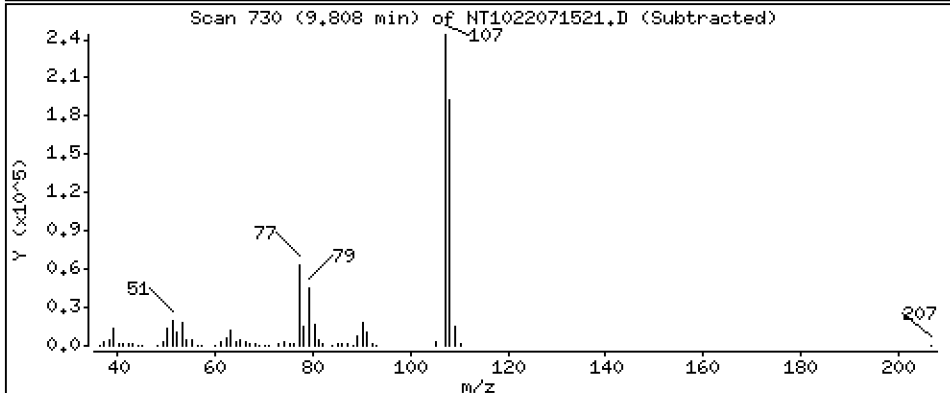
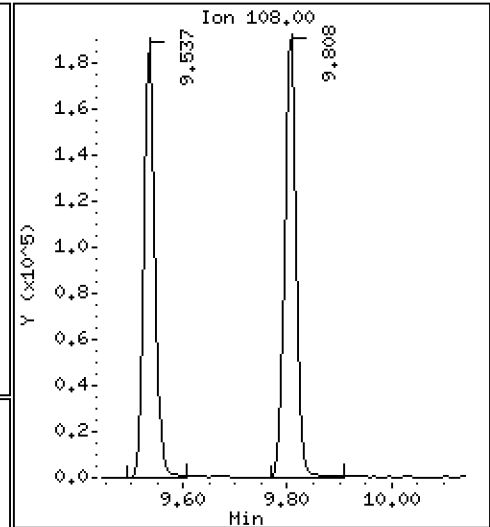
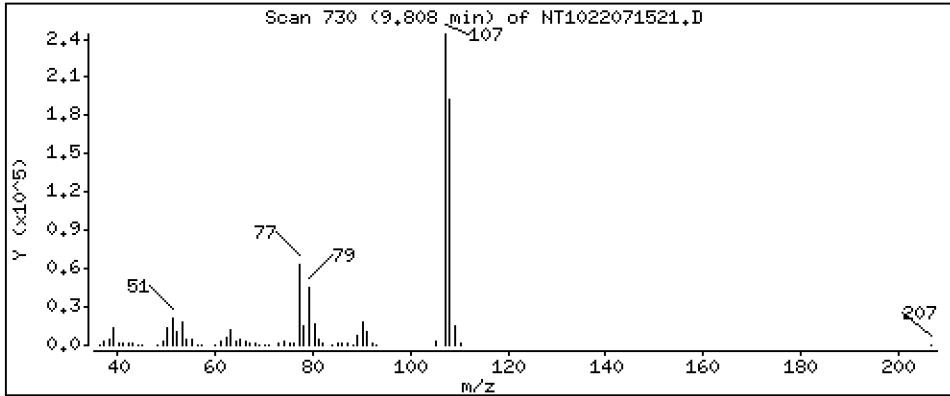
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,996 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

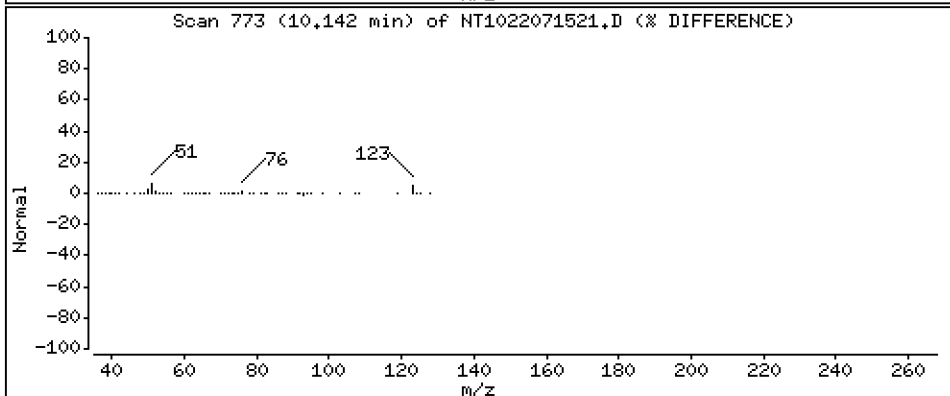
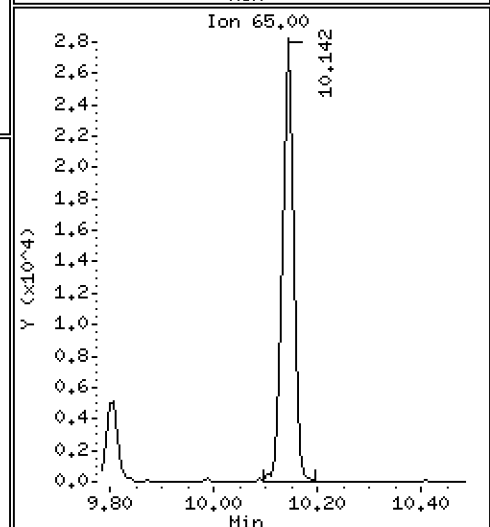
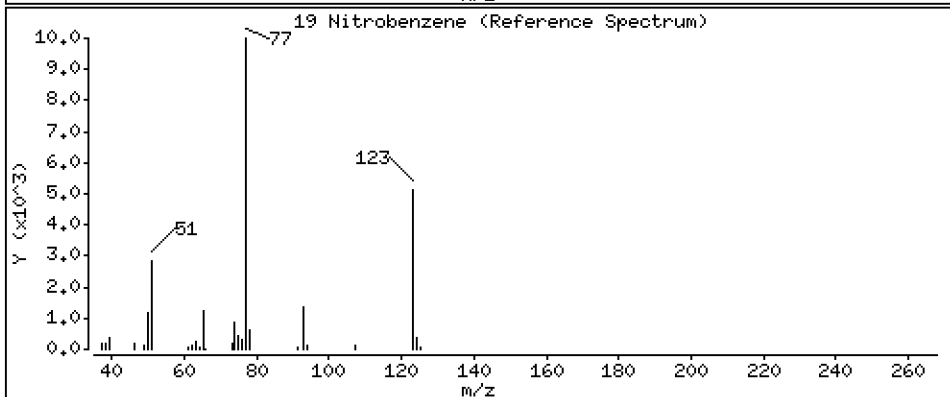
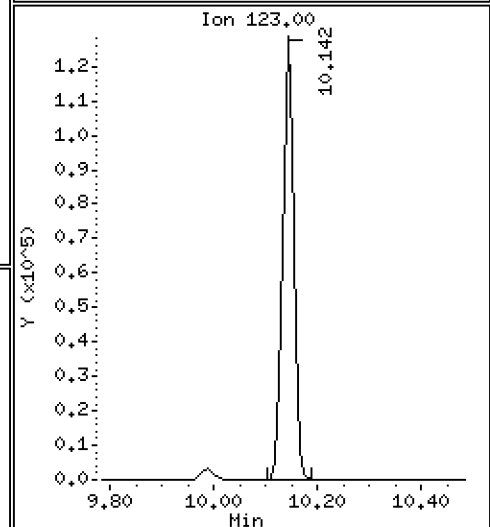
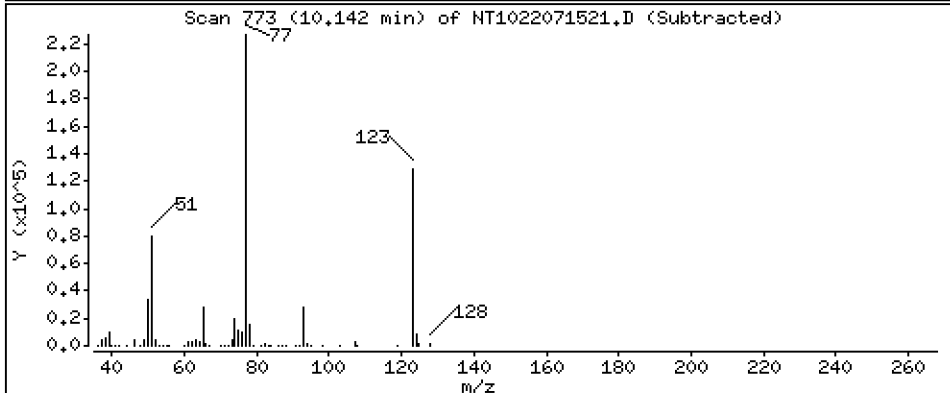
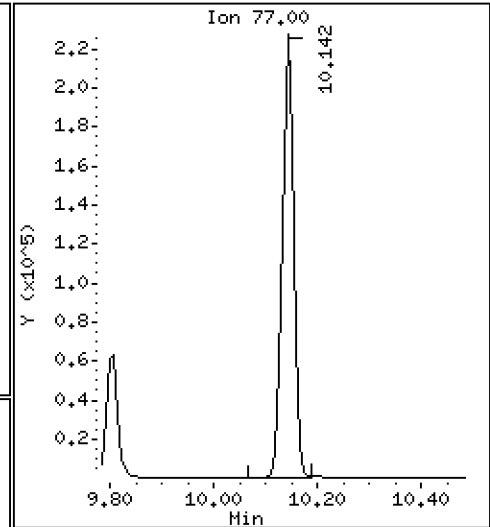
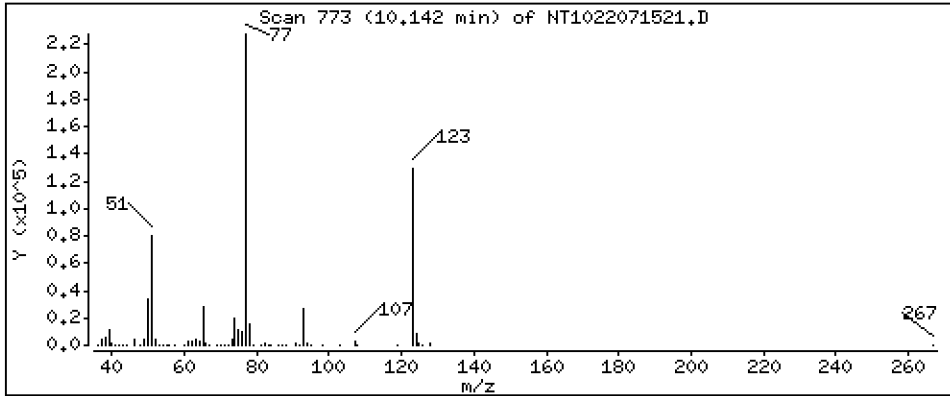
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 5,004 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

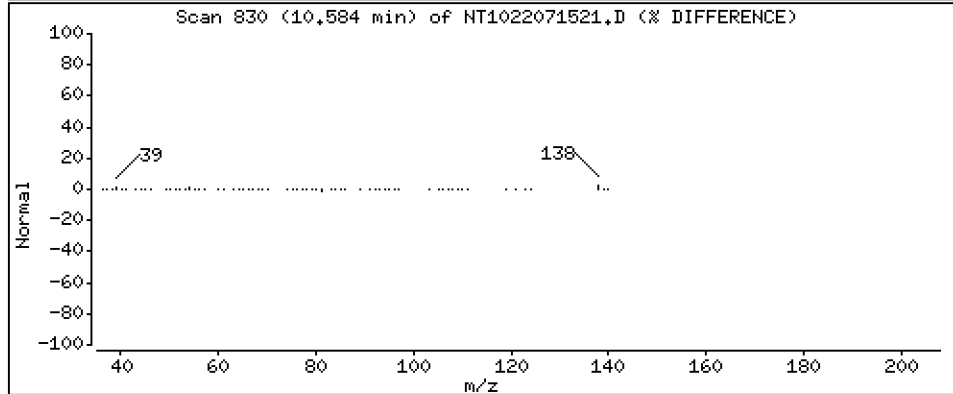
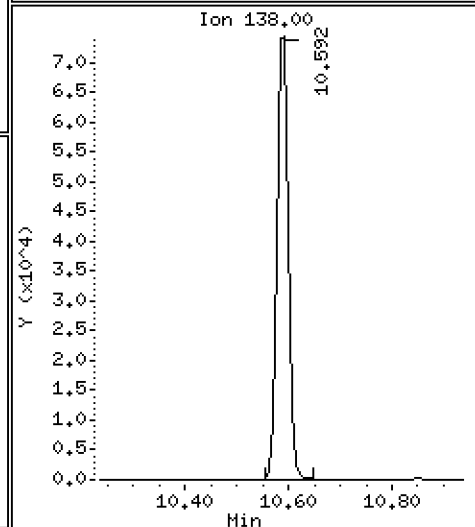
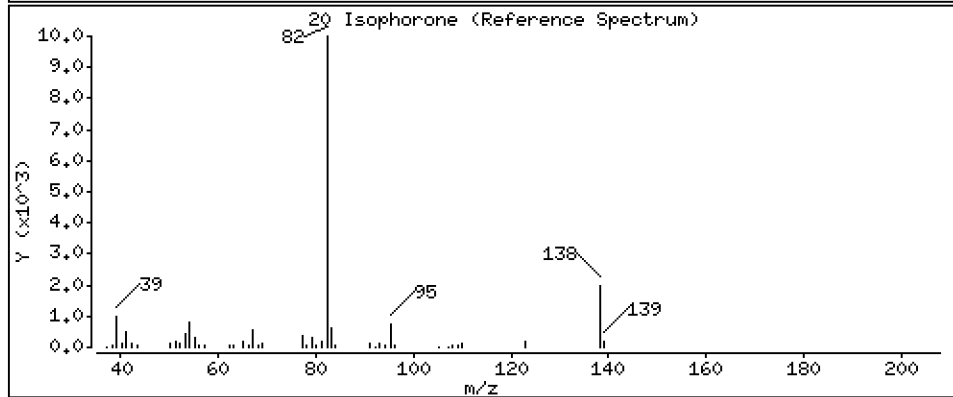
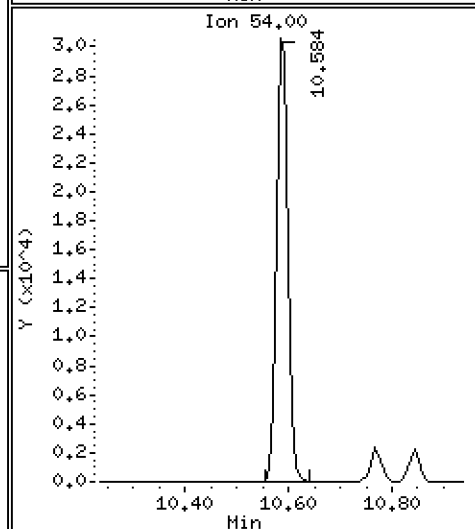
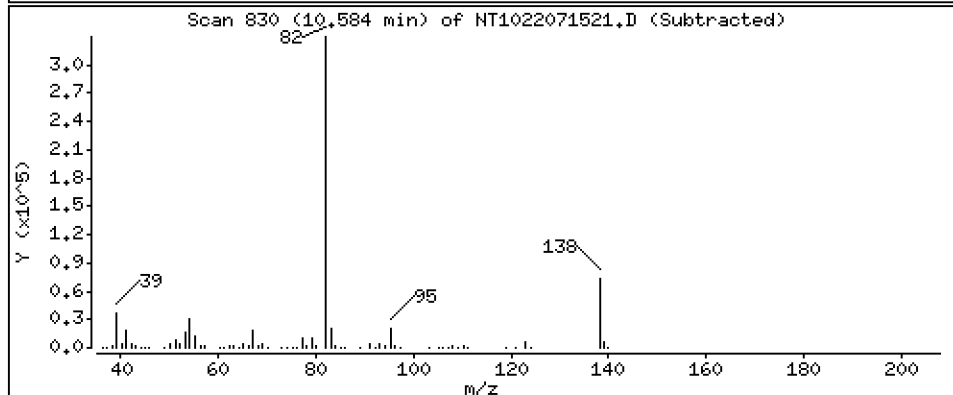
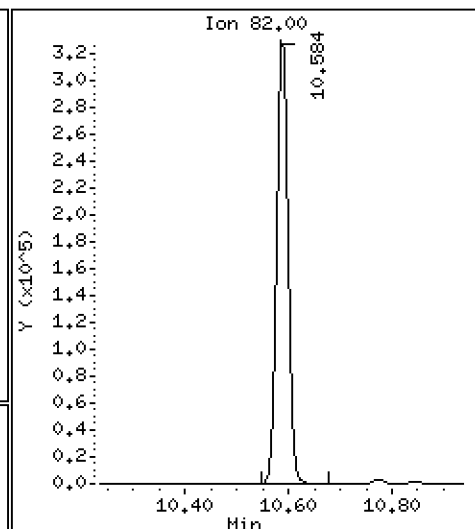
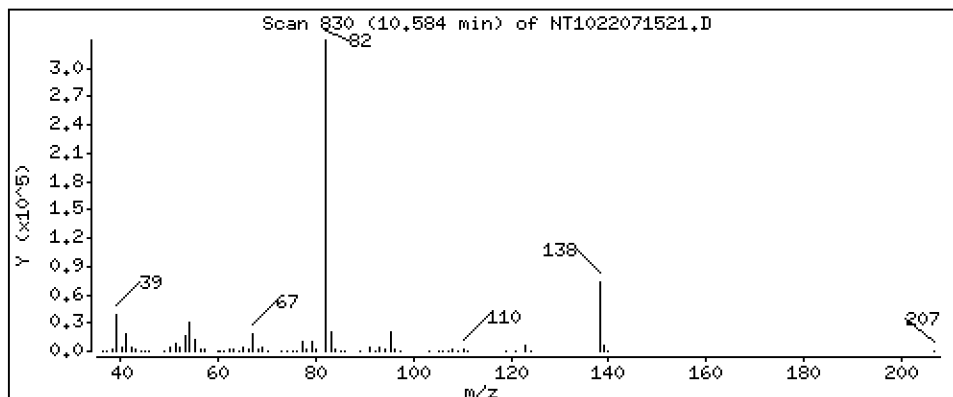
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,424 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

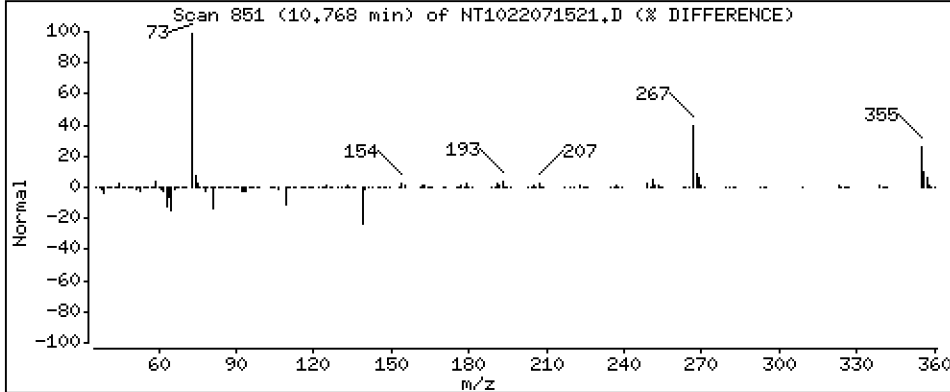
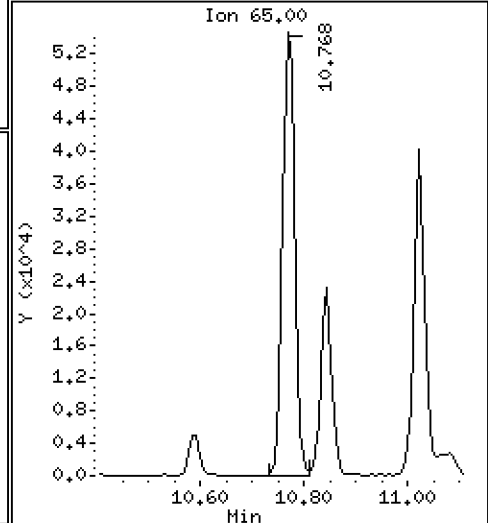
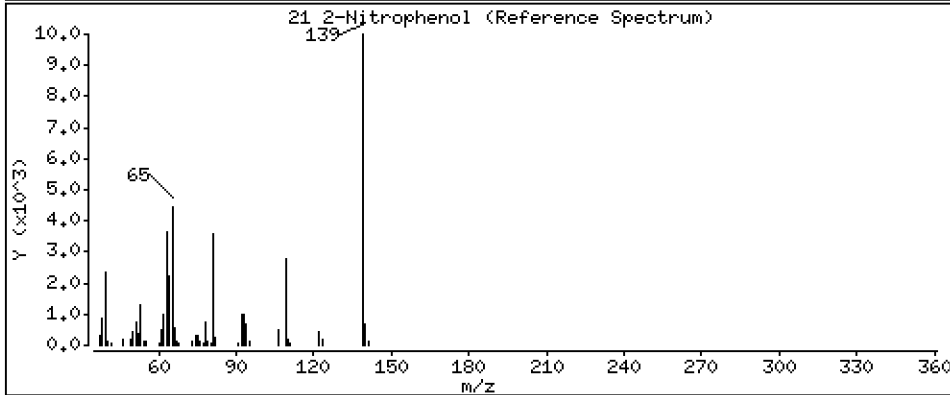
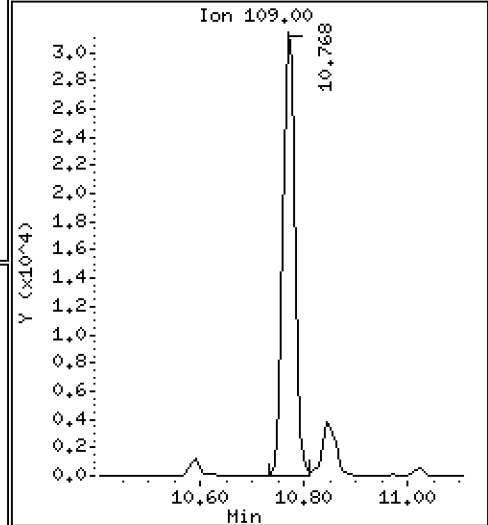
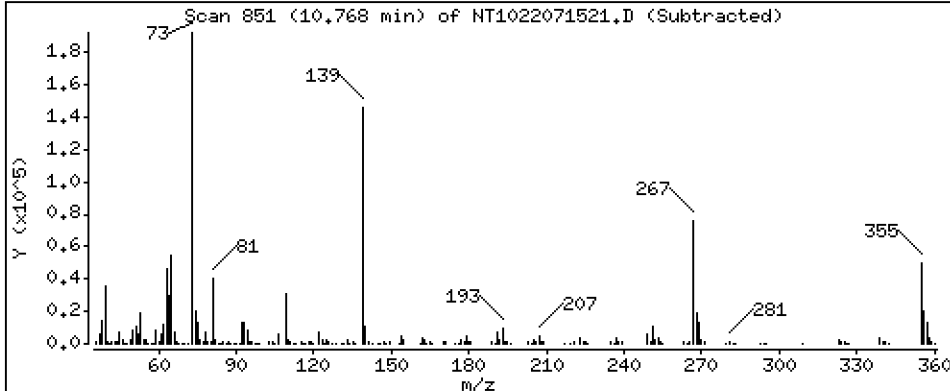
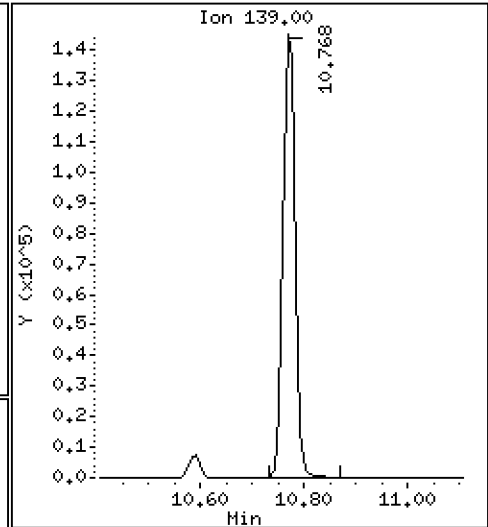
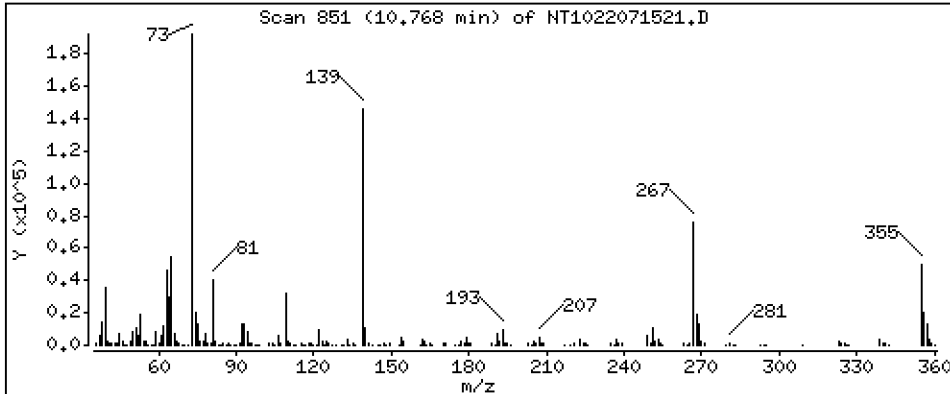
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,656 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

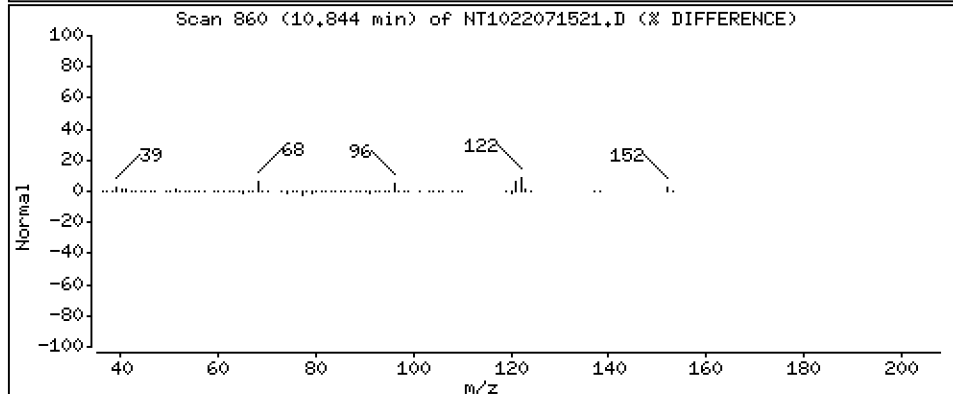
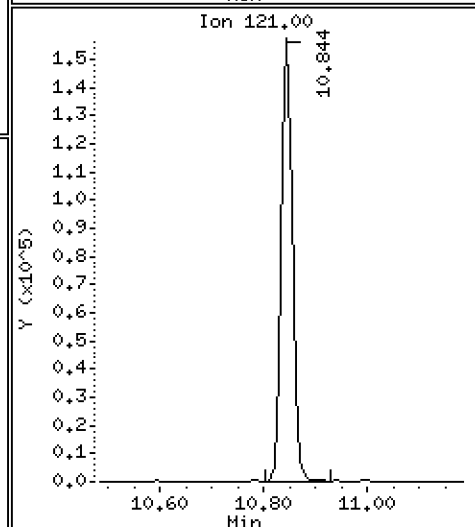
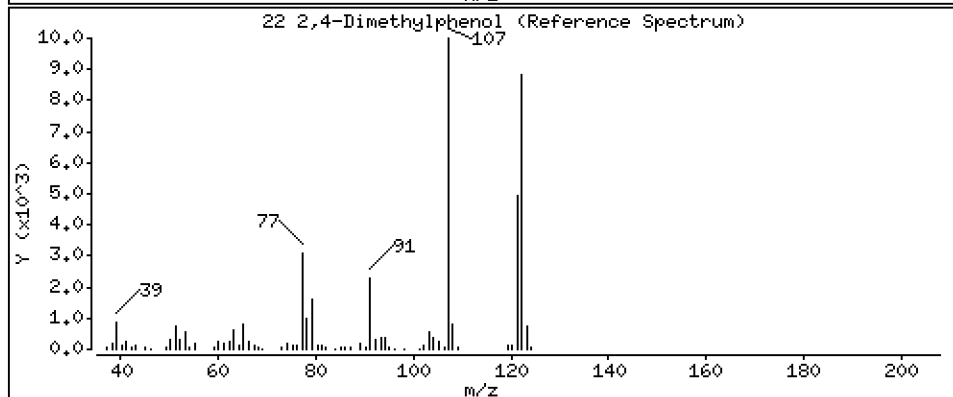
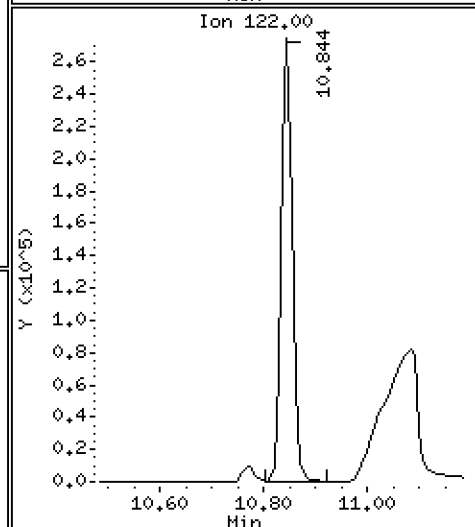
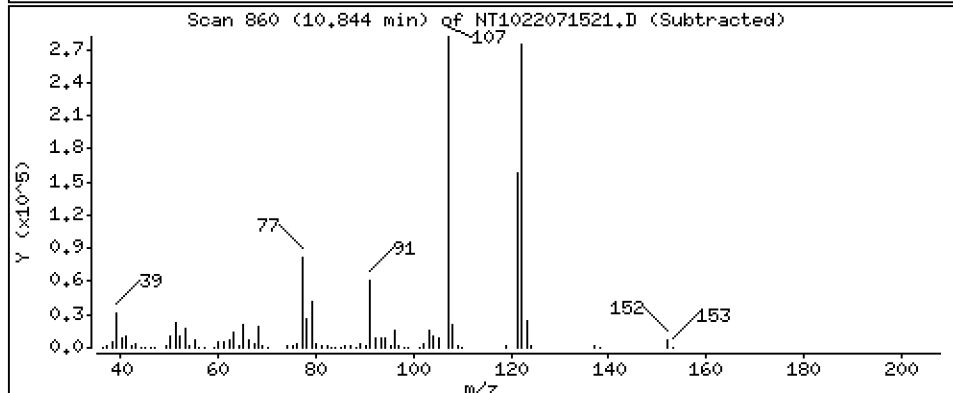
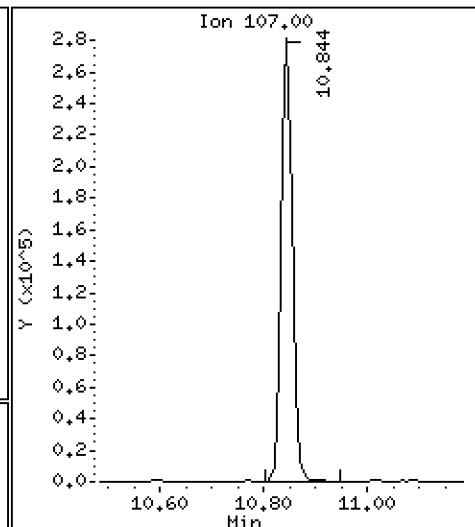
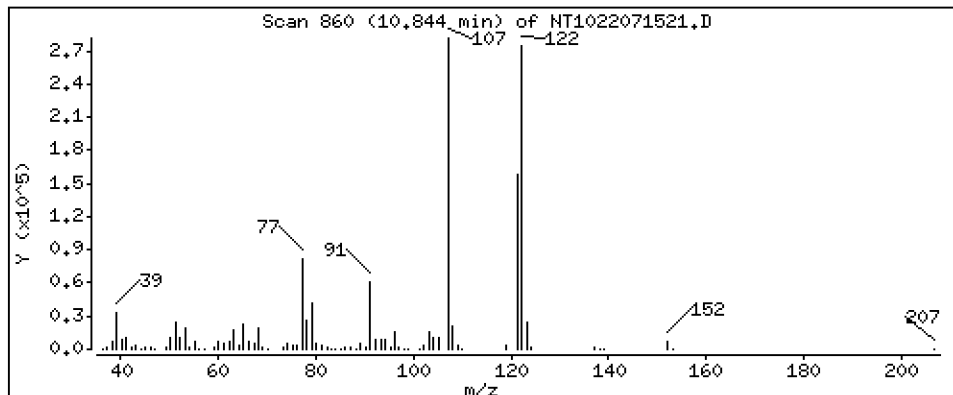
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 8,224 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

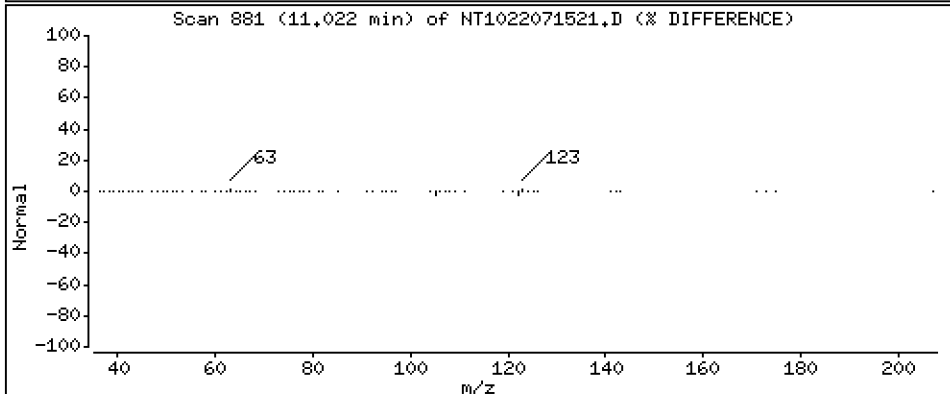
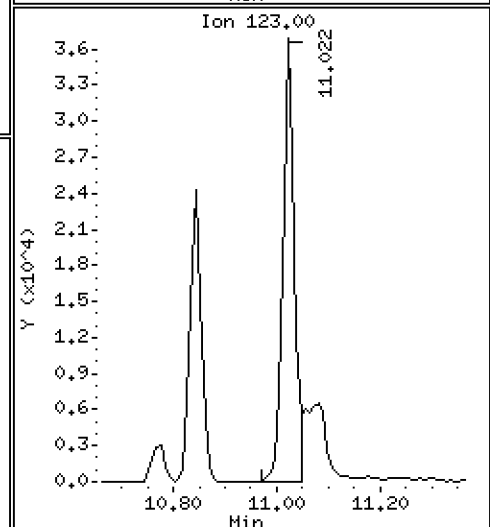
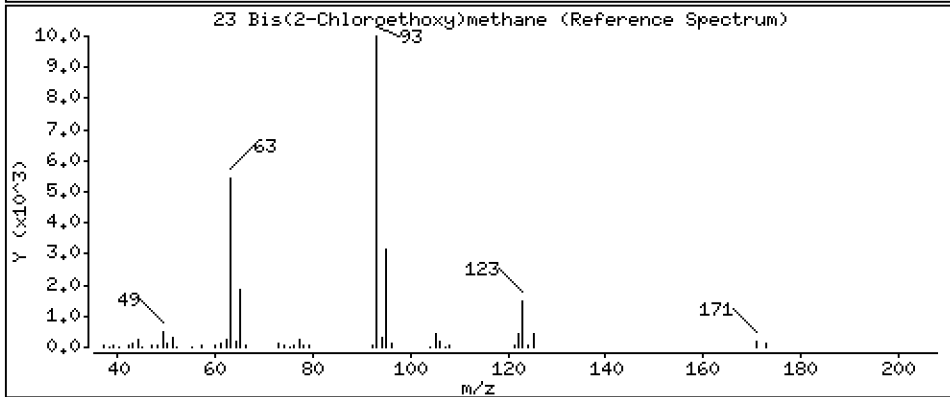
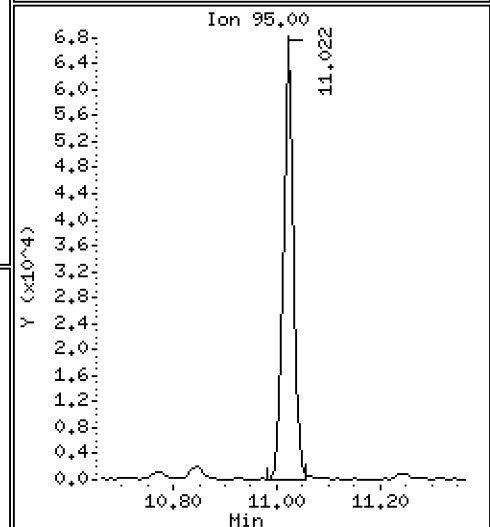
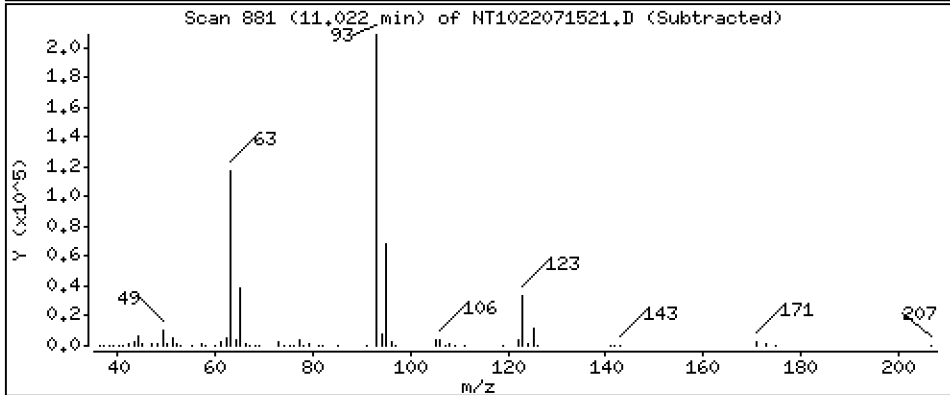
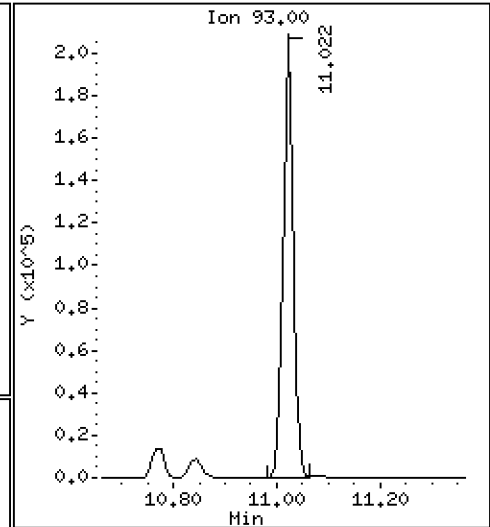
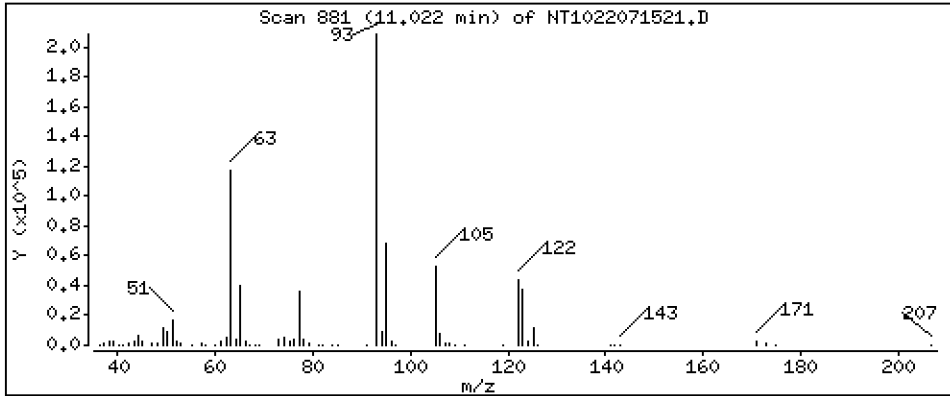
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 4,978 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

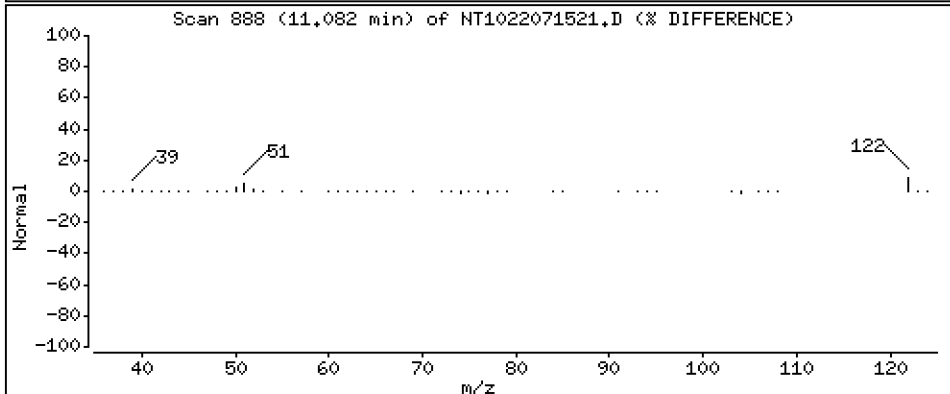
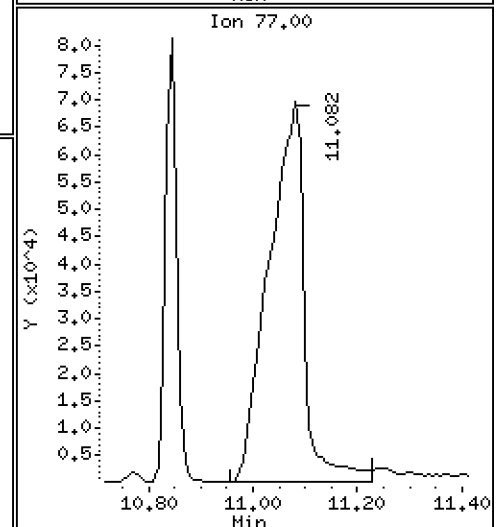
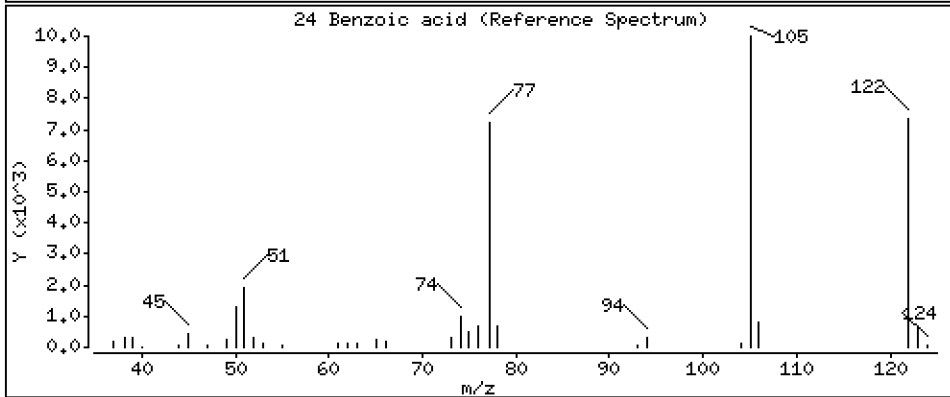
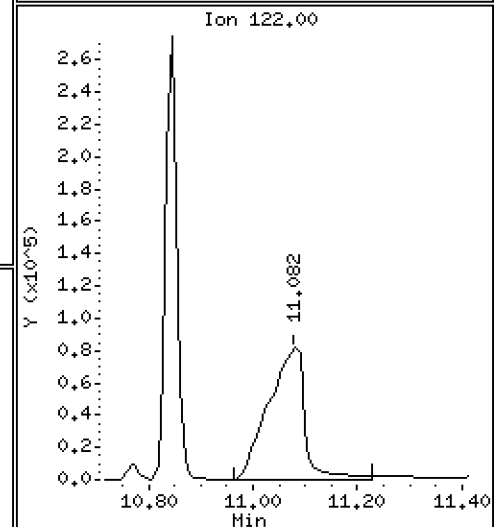
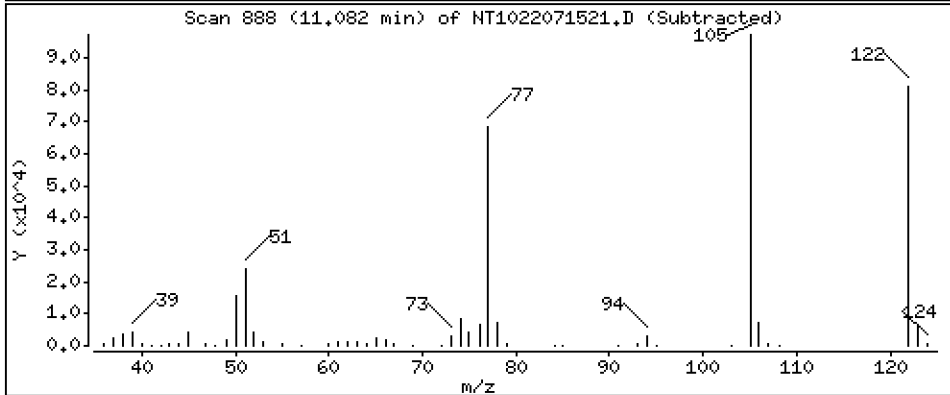
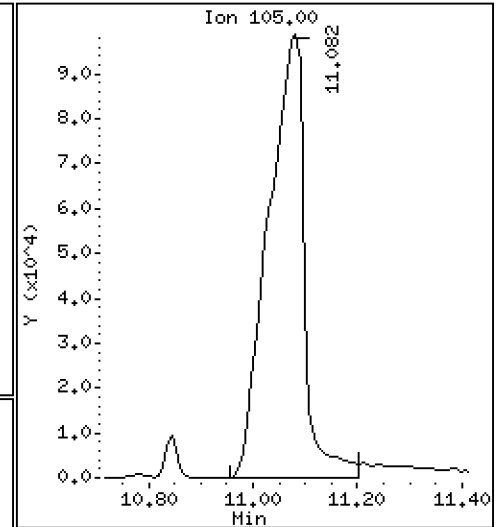
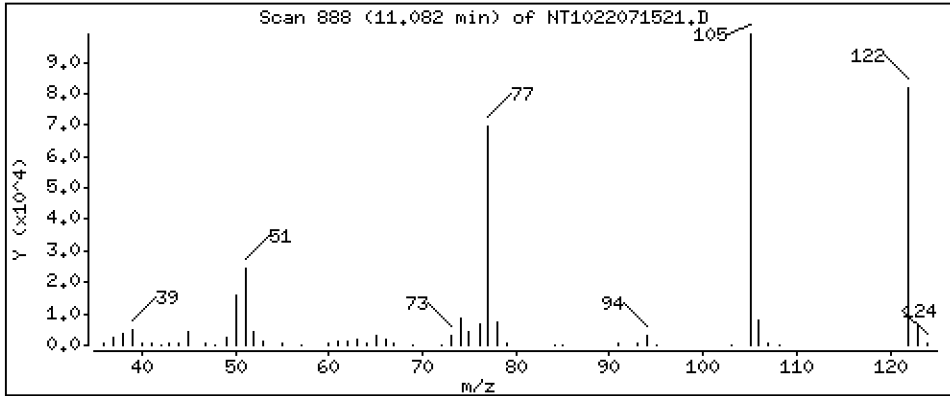
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 17,27 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

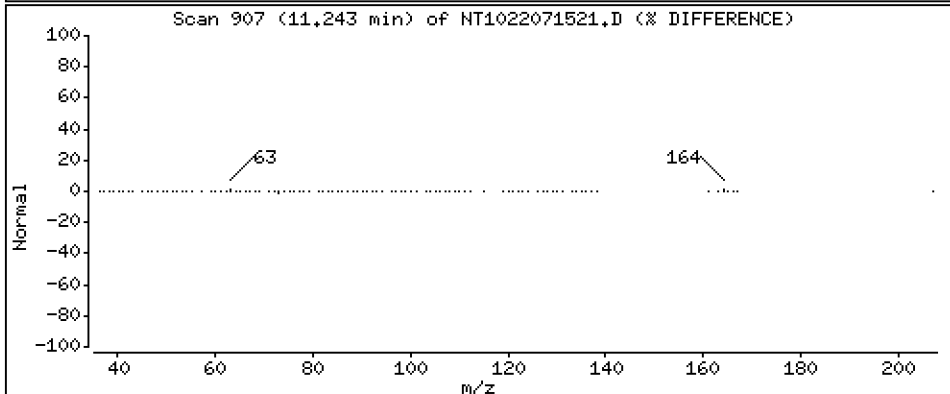
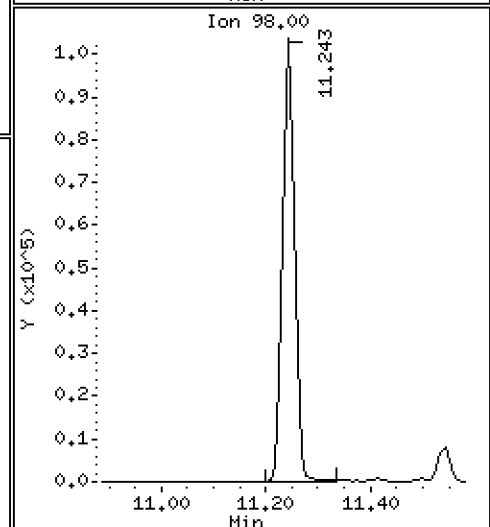
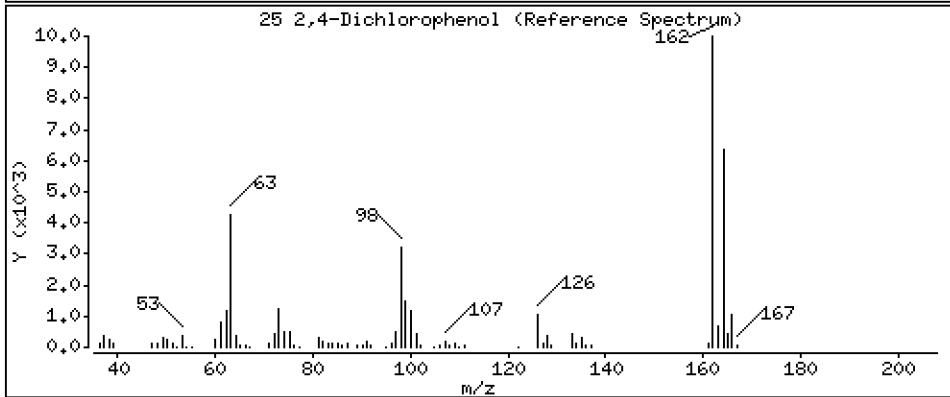
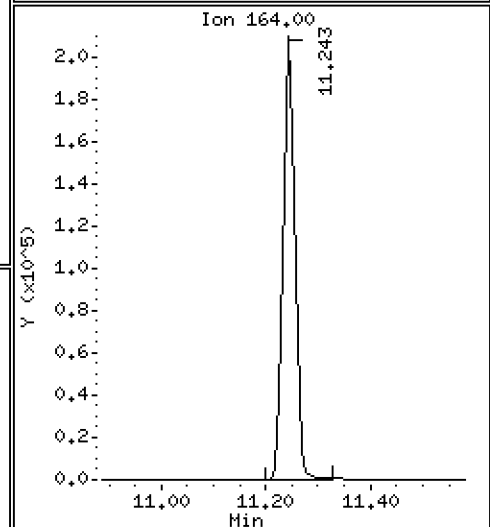
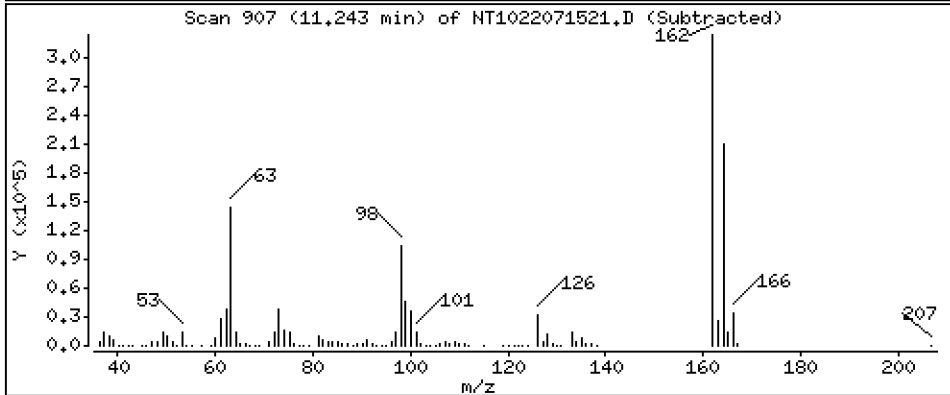
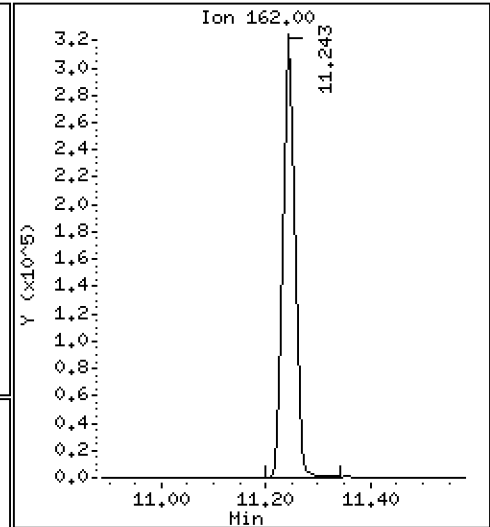
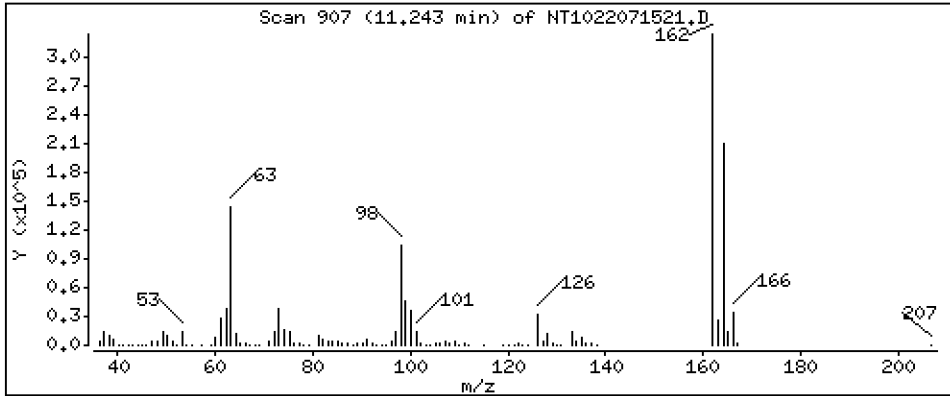
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 10,83 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

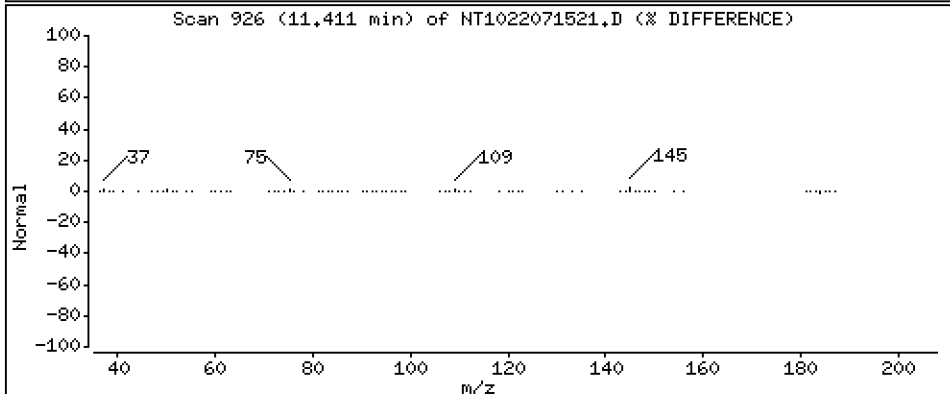
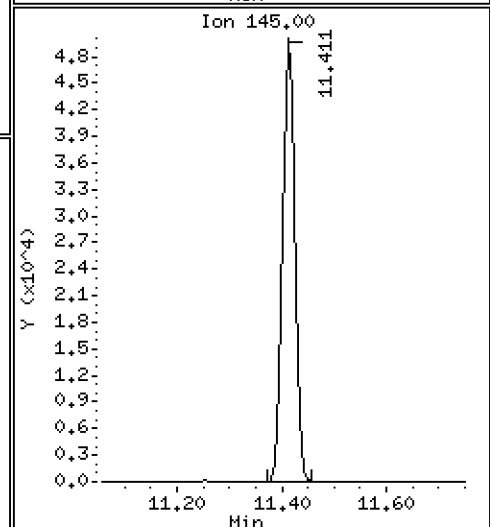
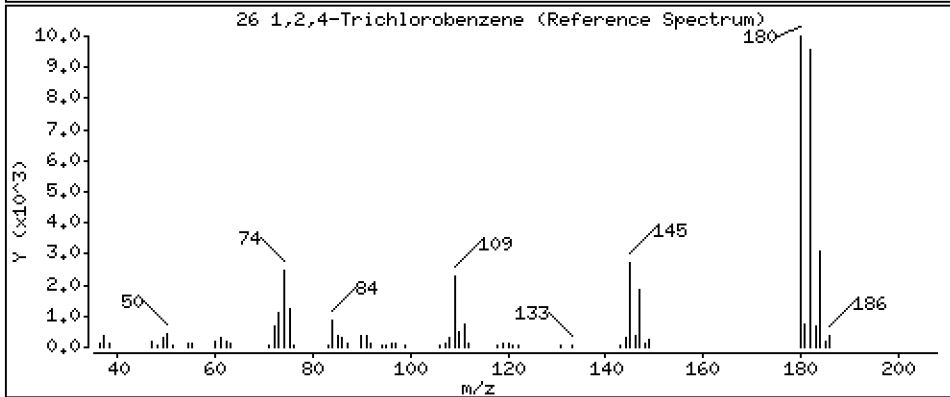
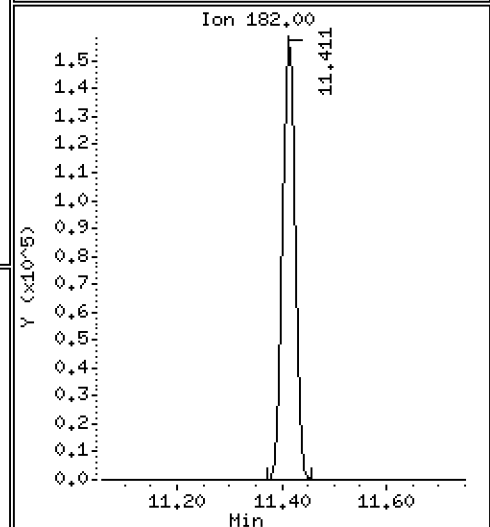
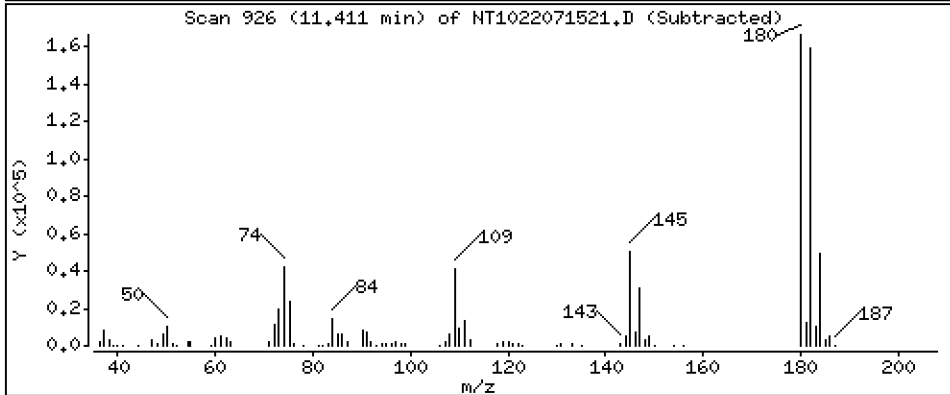
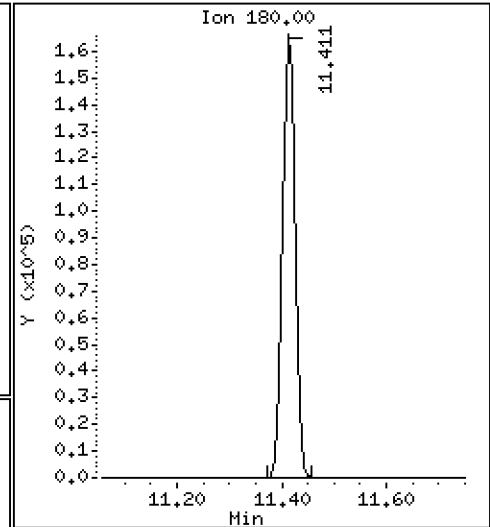
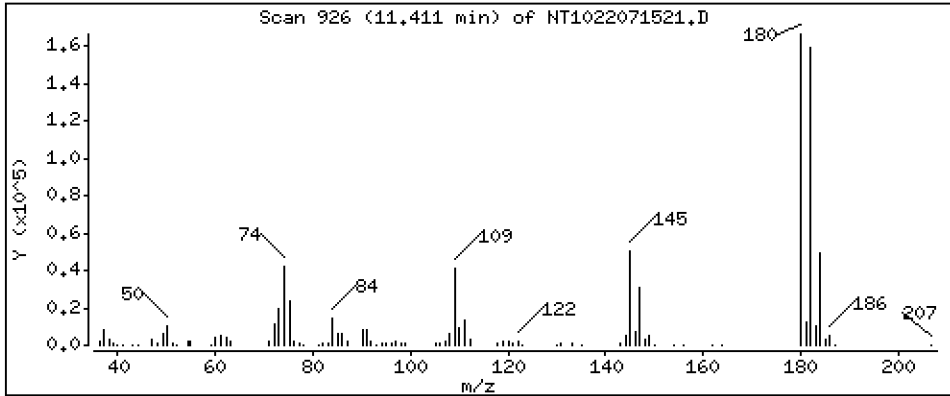
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,669 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

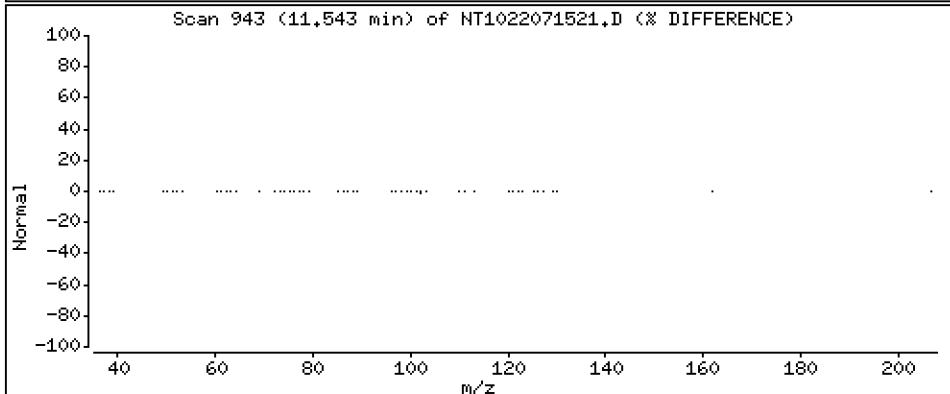
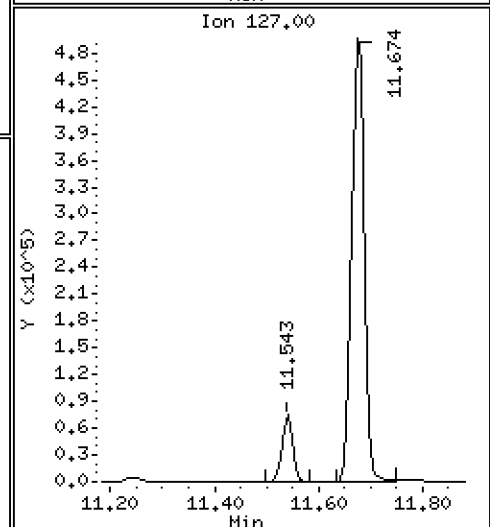
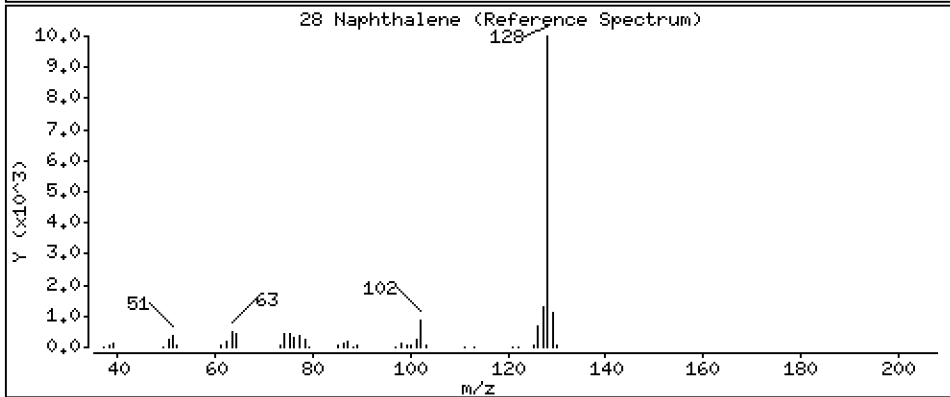
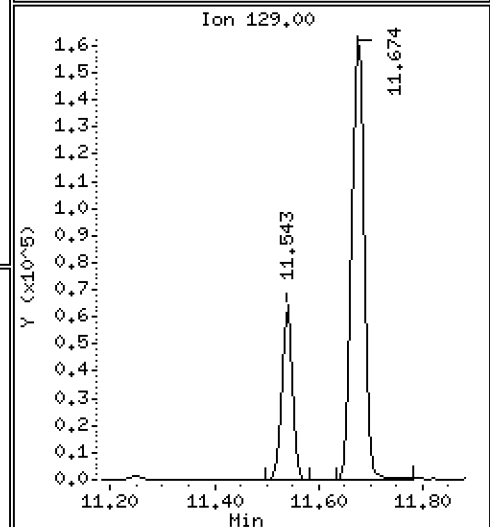
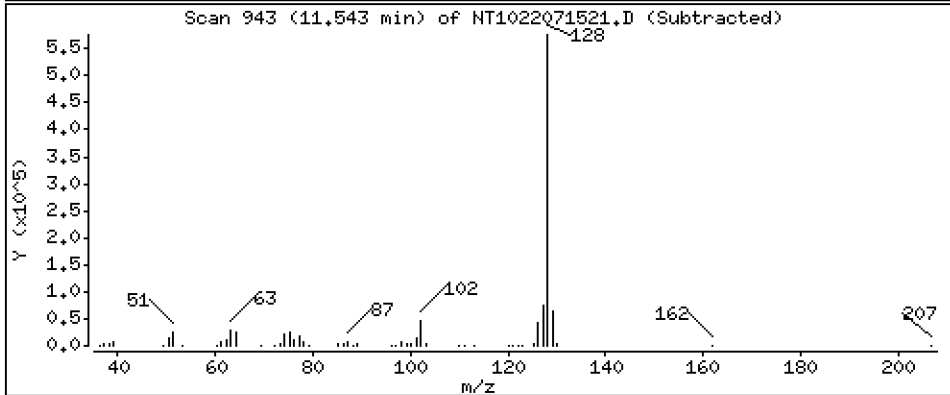
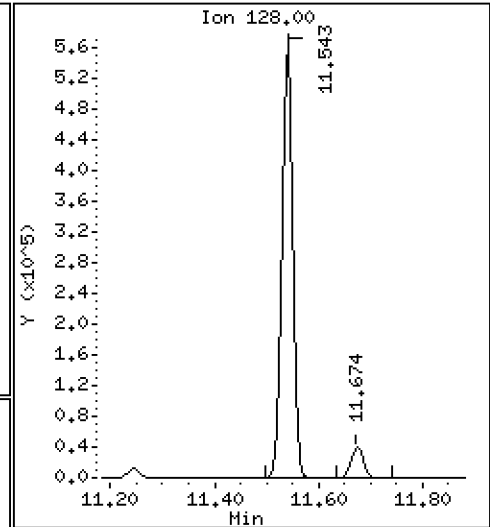
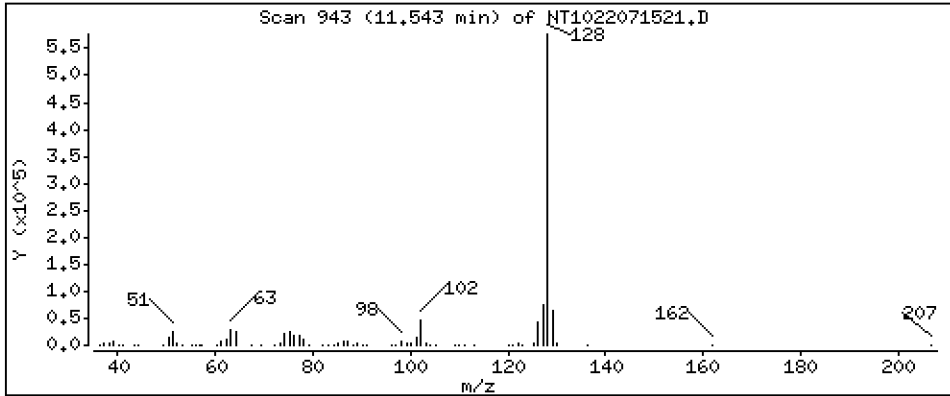
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 5,280 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

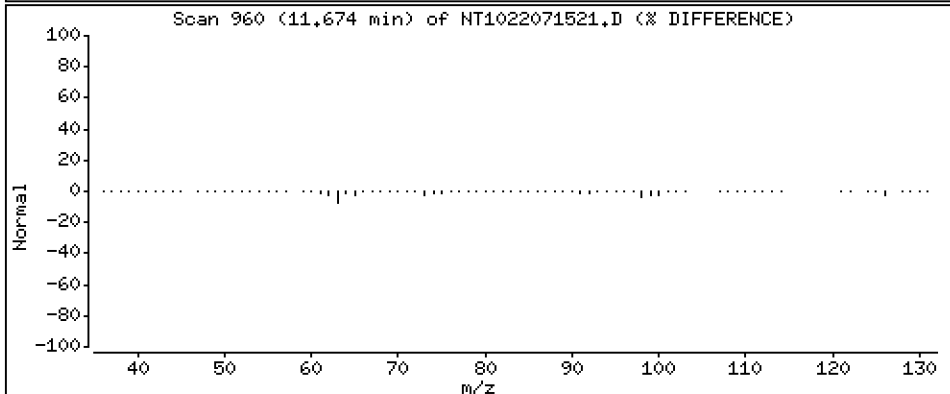
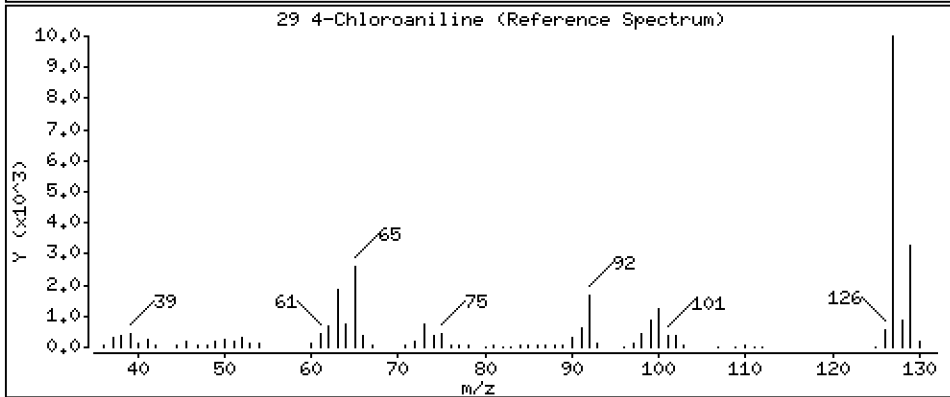
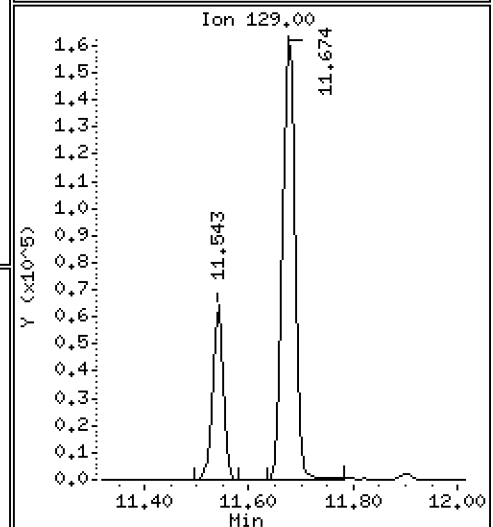
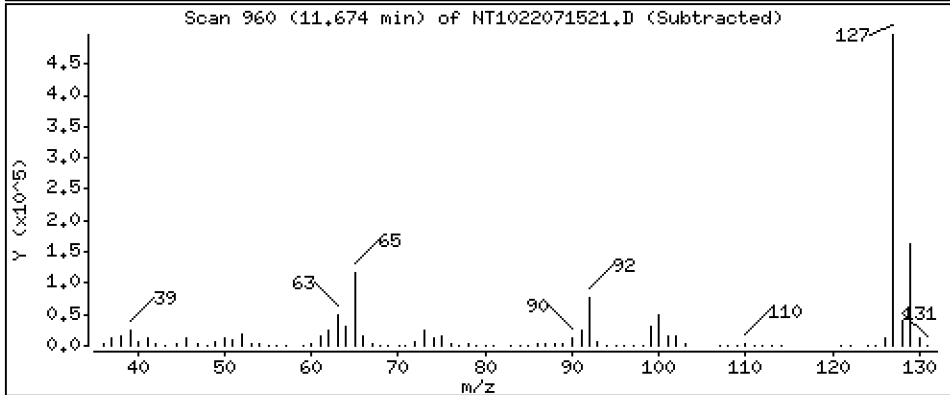
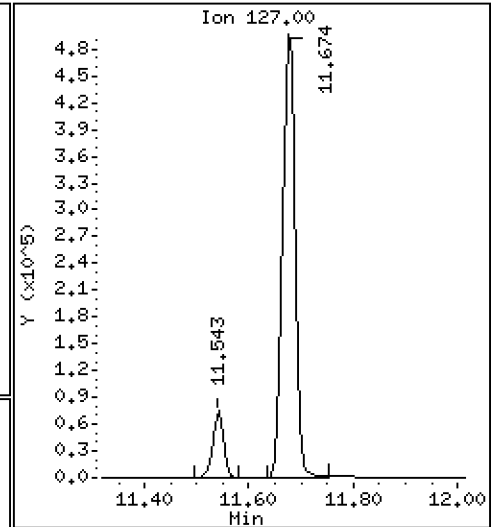
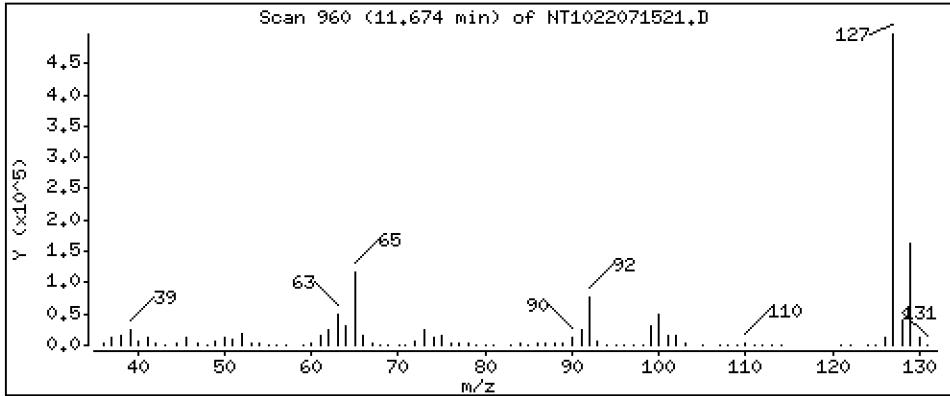
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 11,10 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

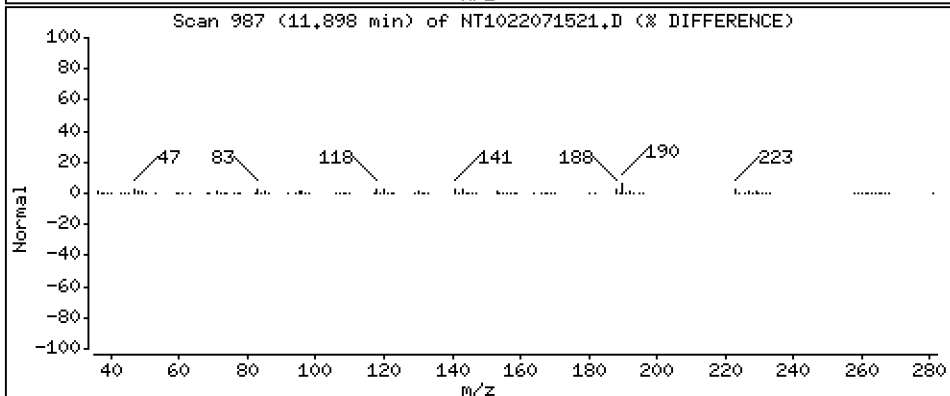
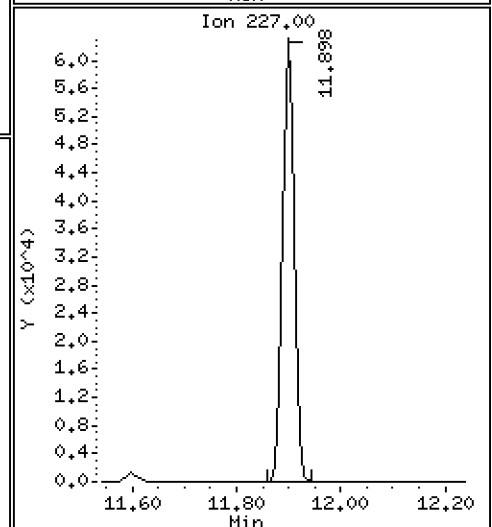
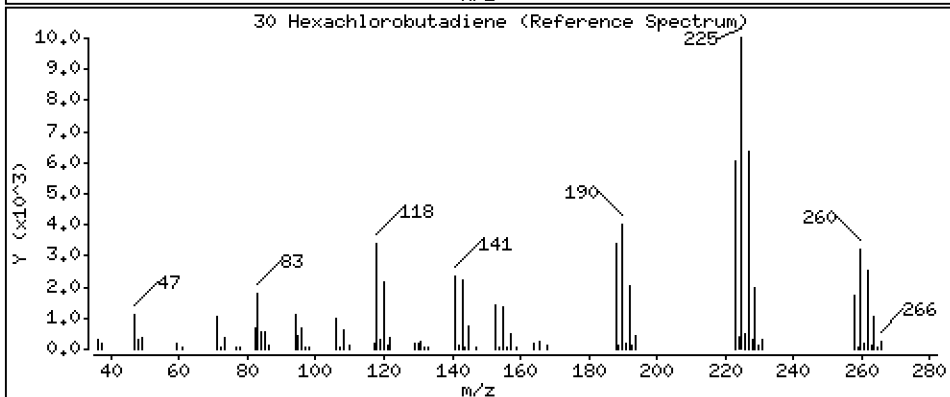
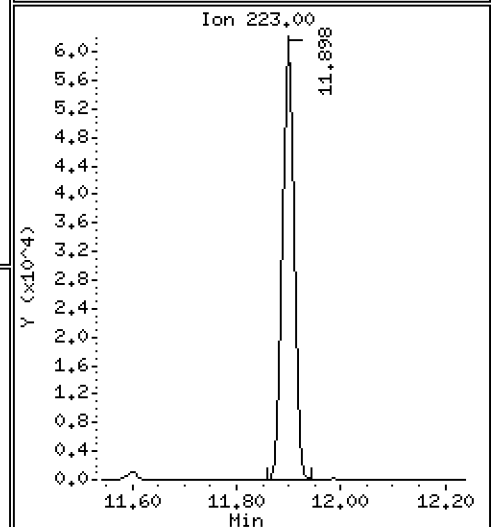
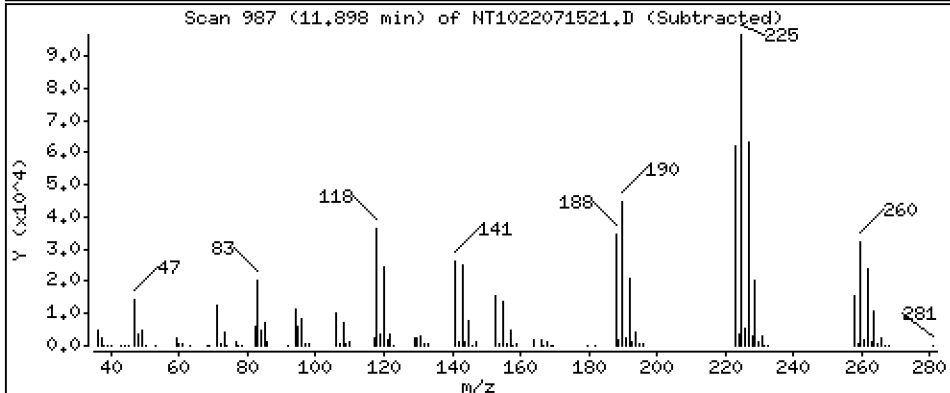
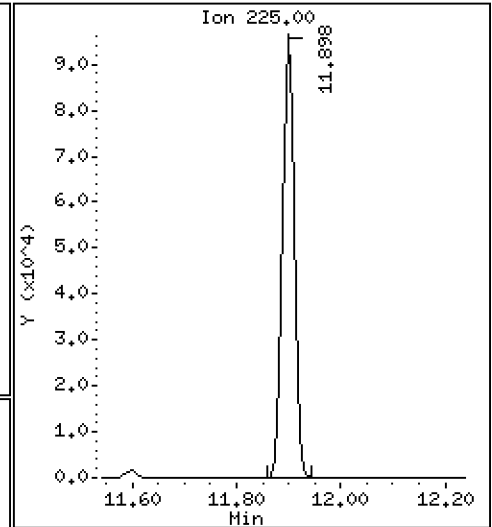
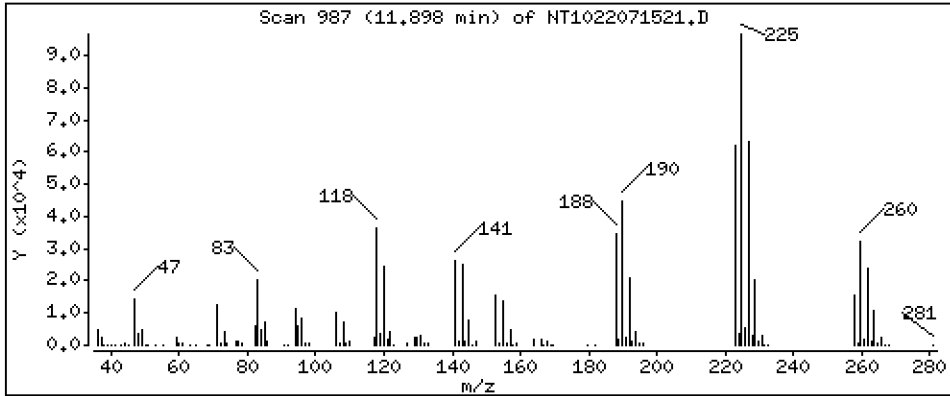
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 5,294 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

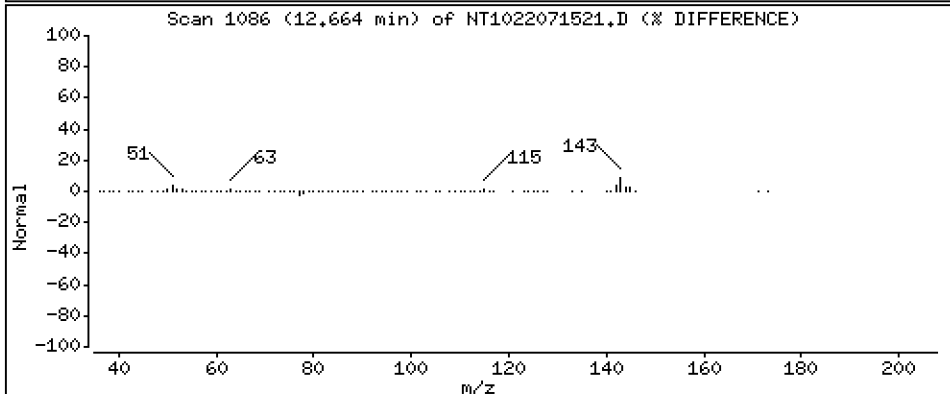
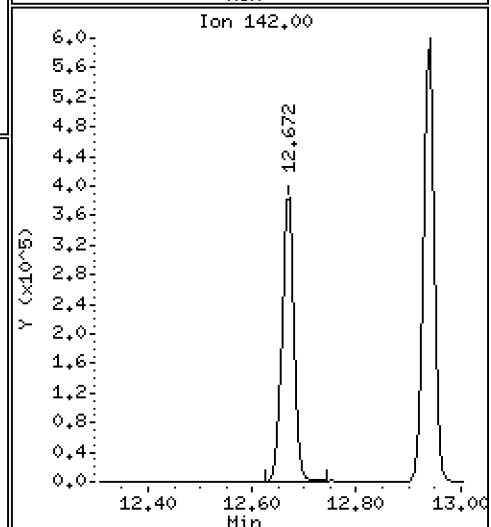
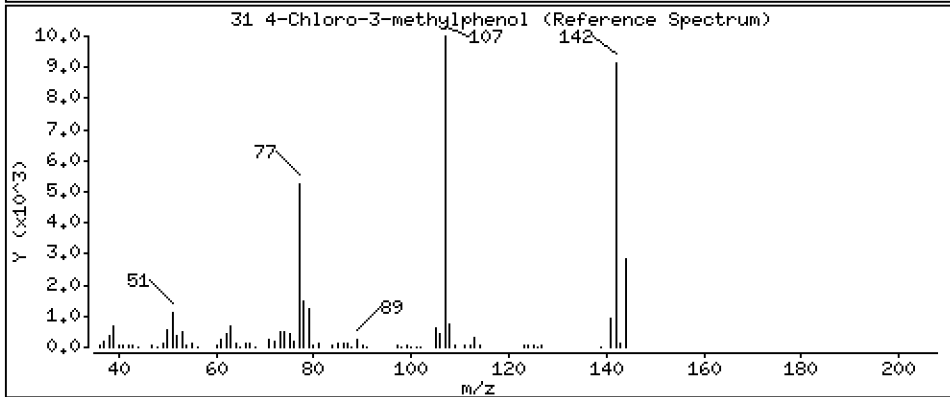
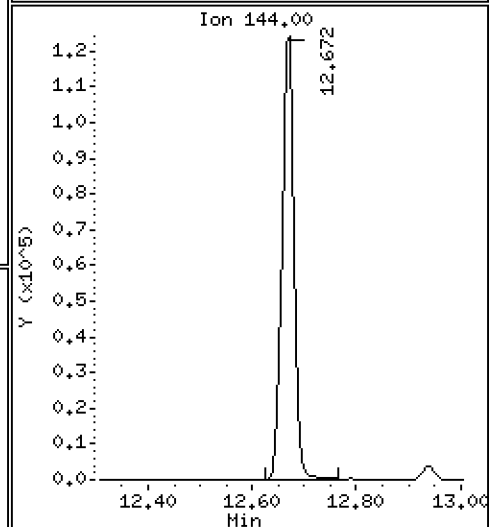
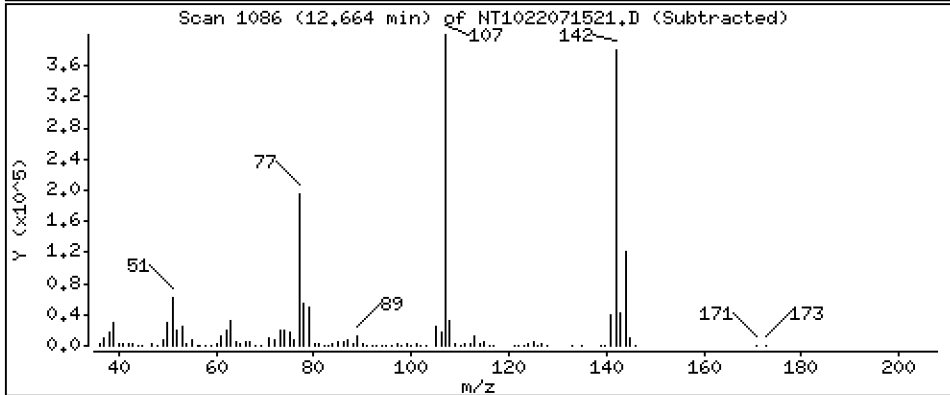
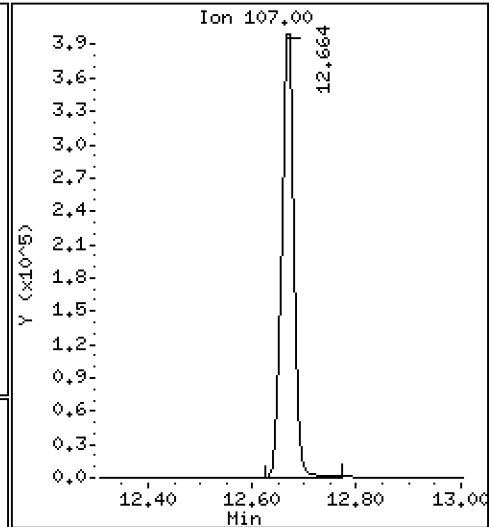
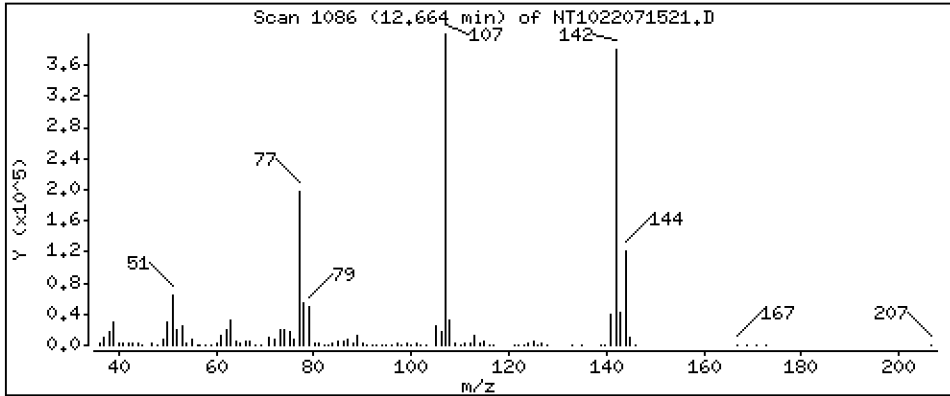
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 10,26 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

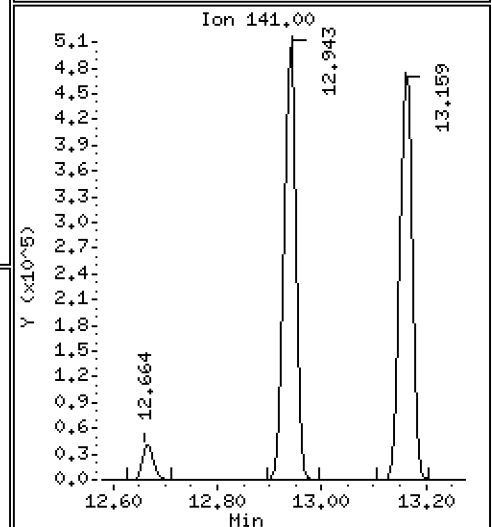
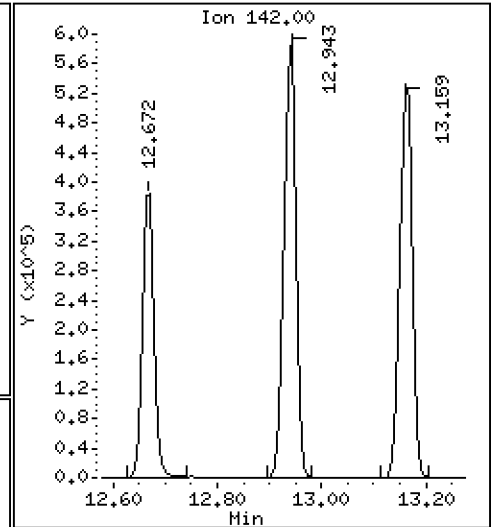
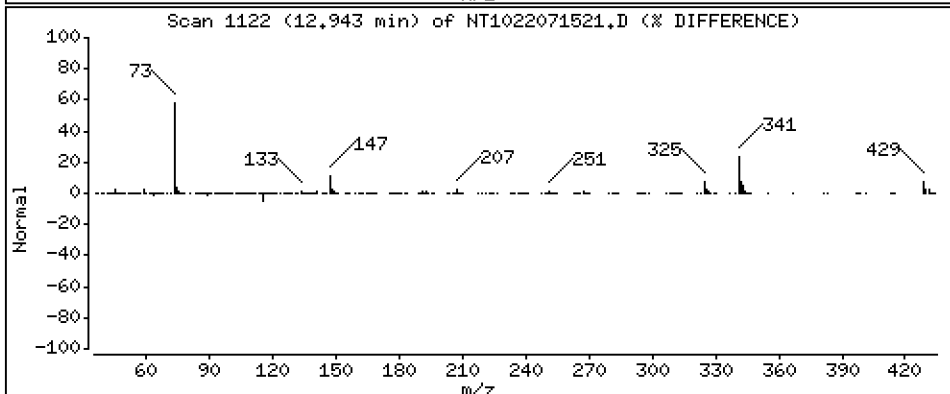
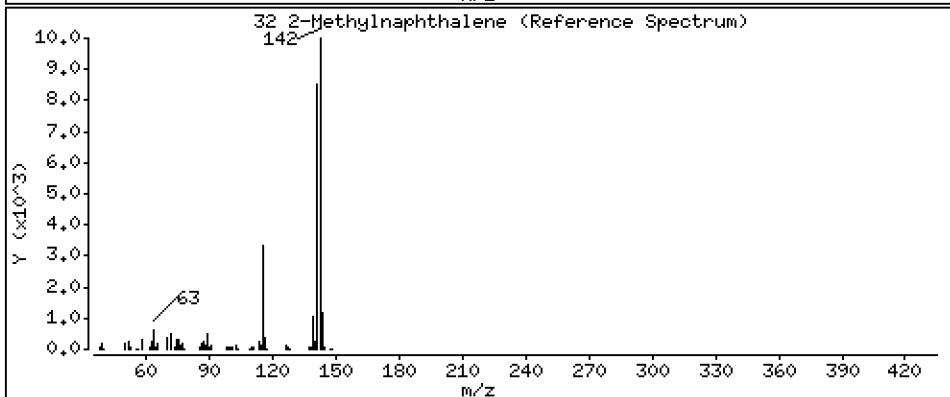
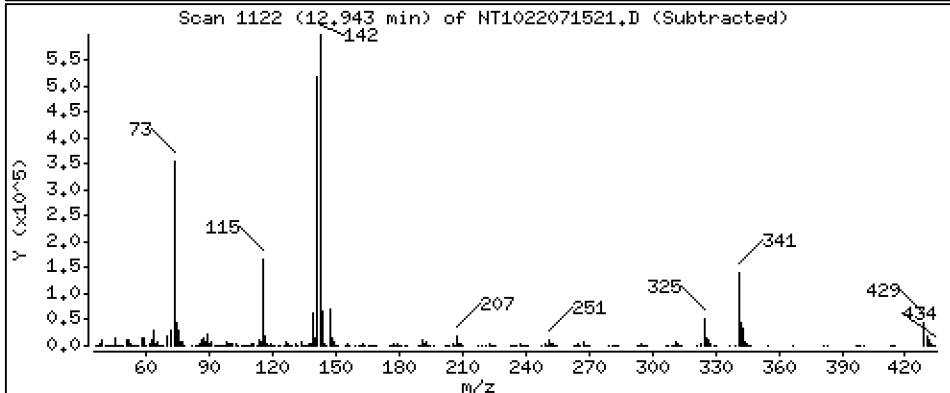
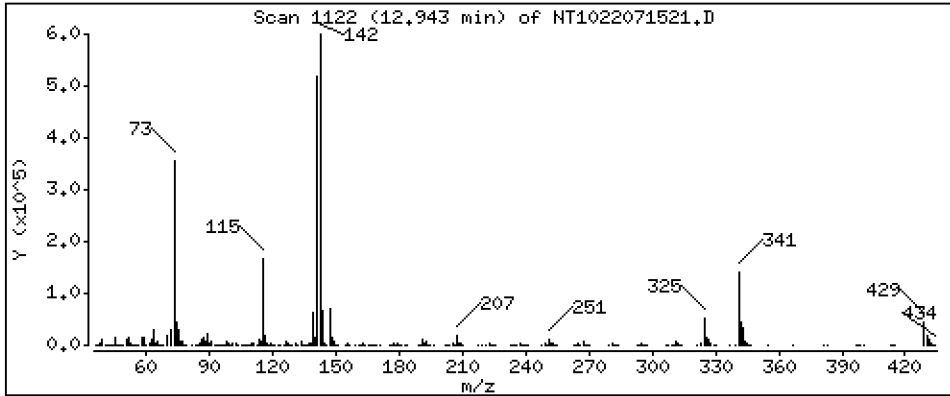
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 5,601 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

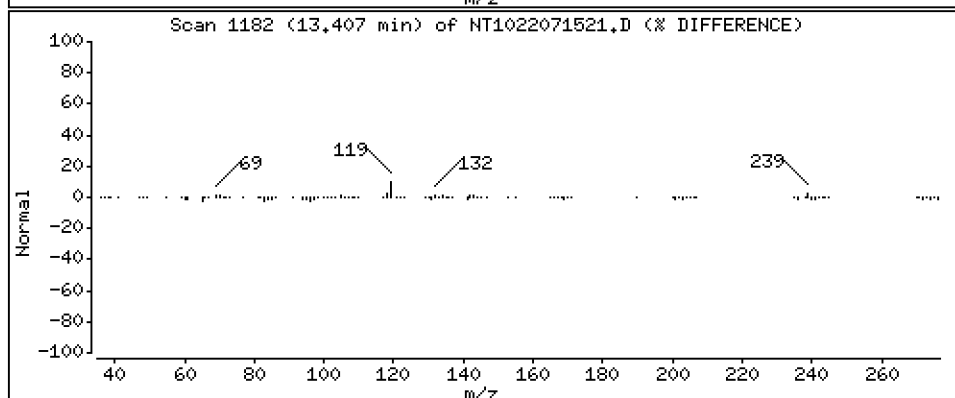
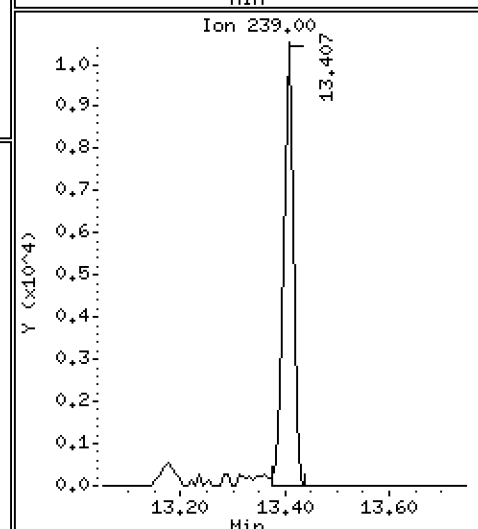
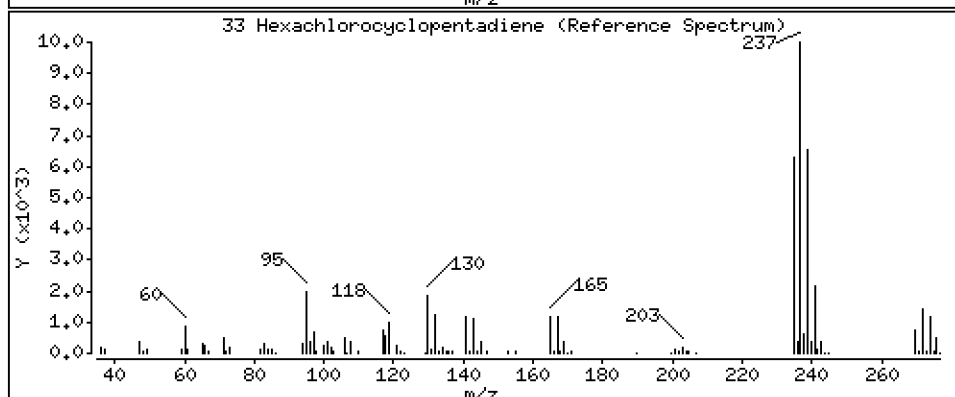
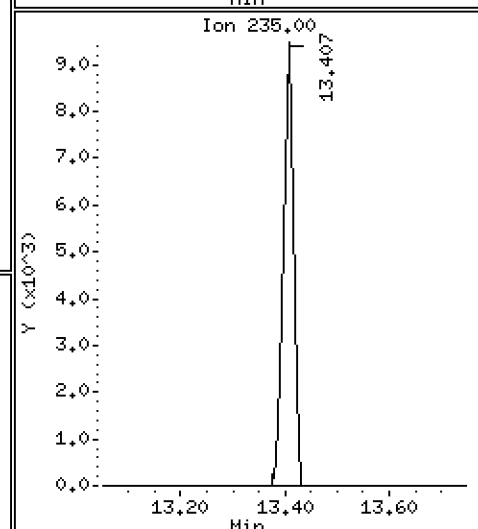
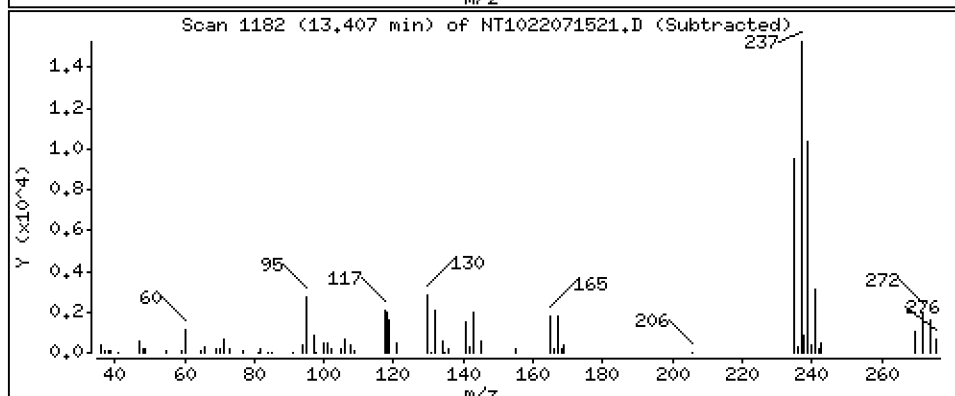
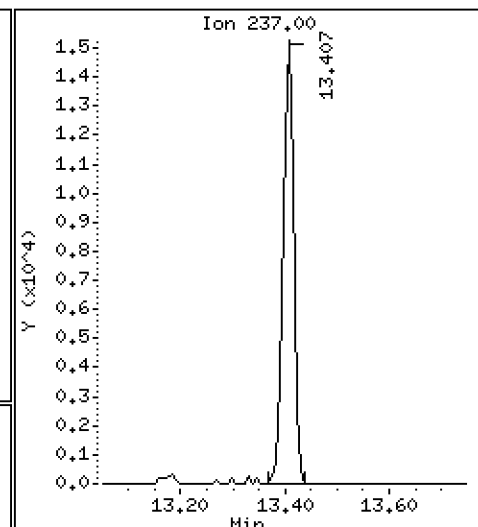
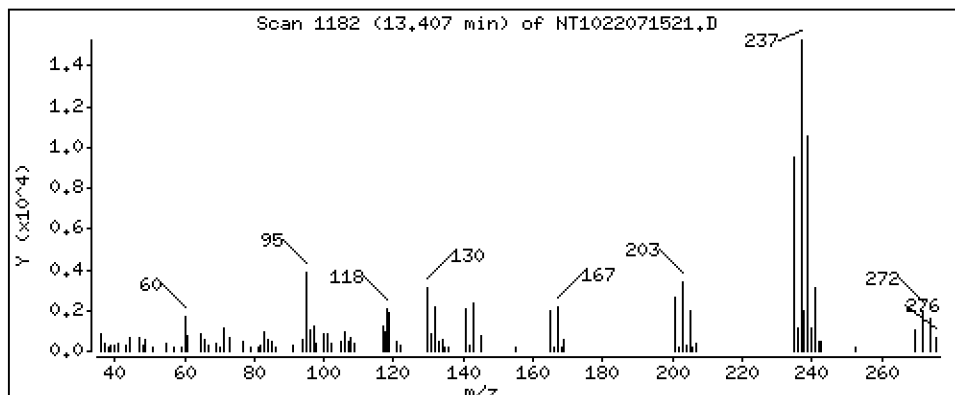
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 1,076 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

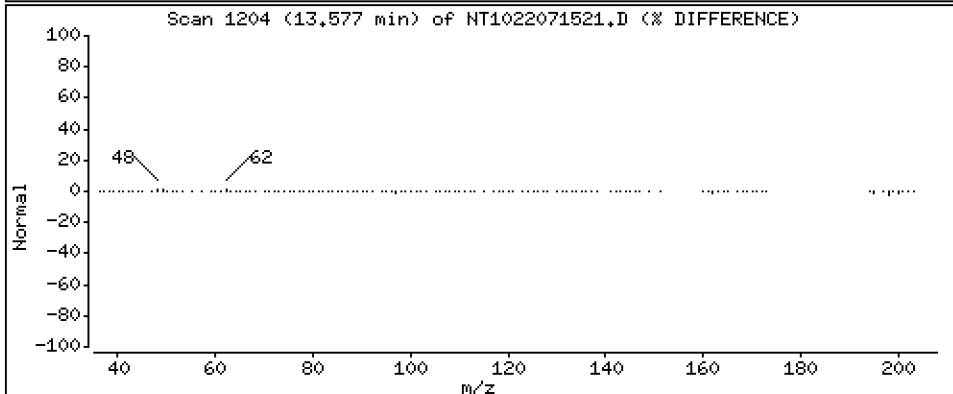
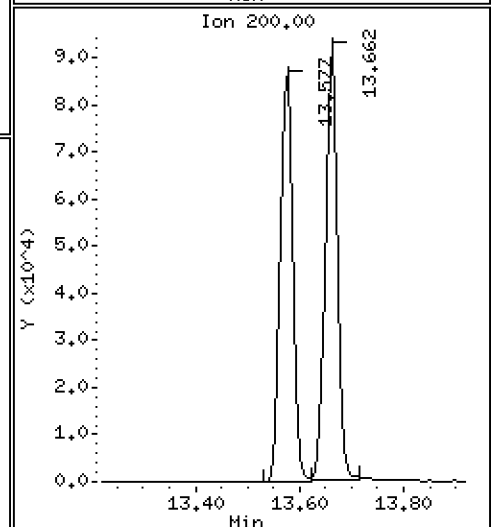
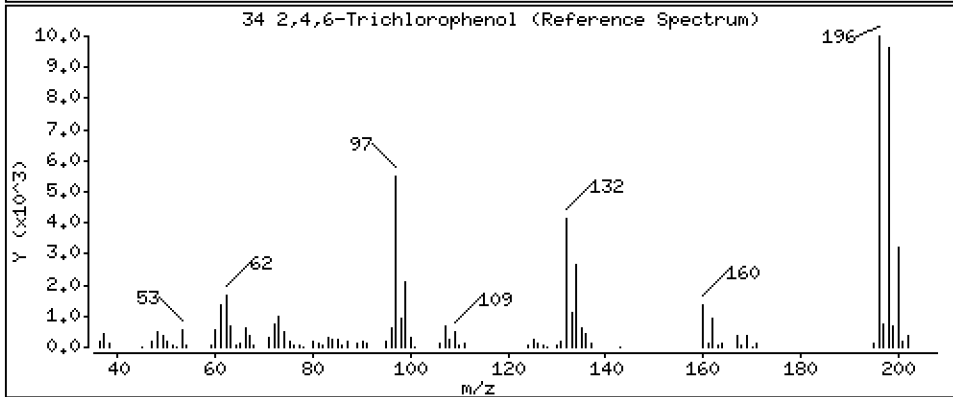
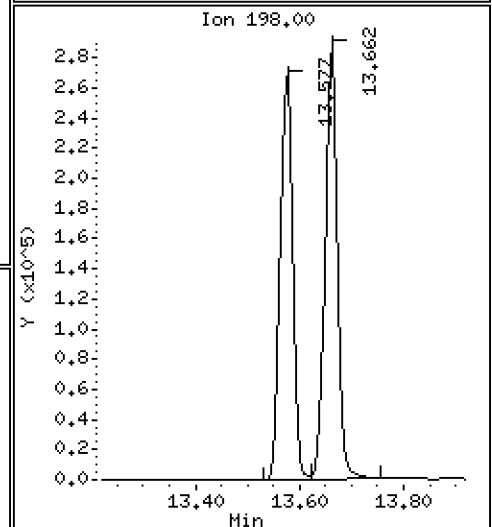
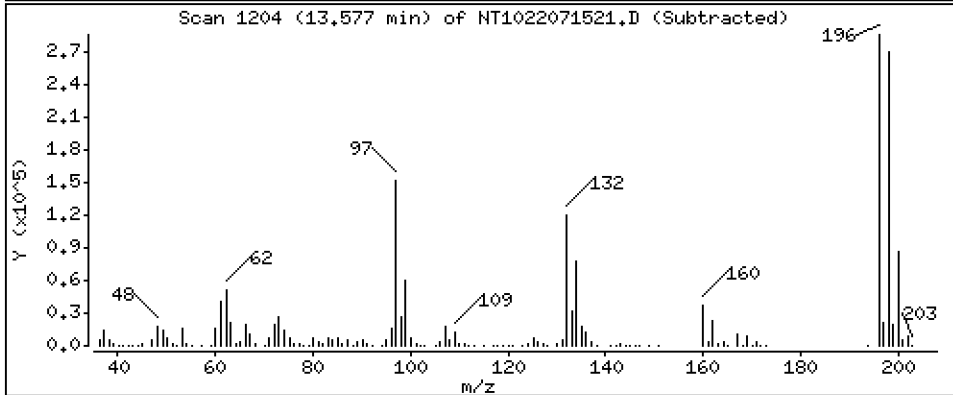
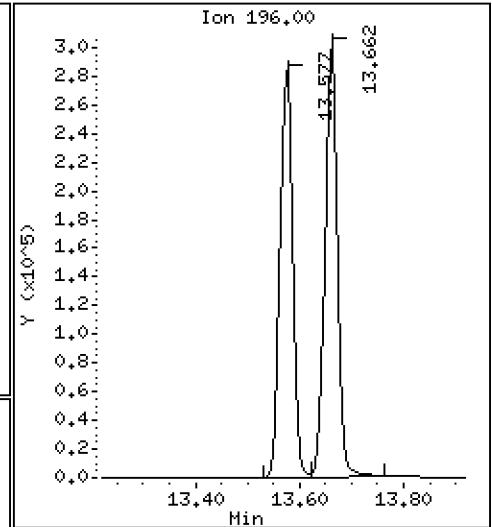
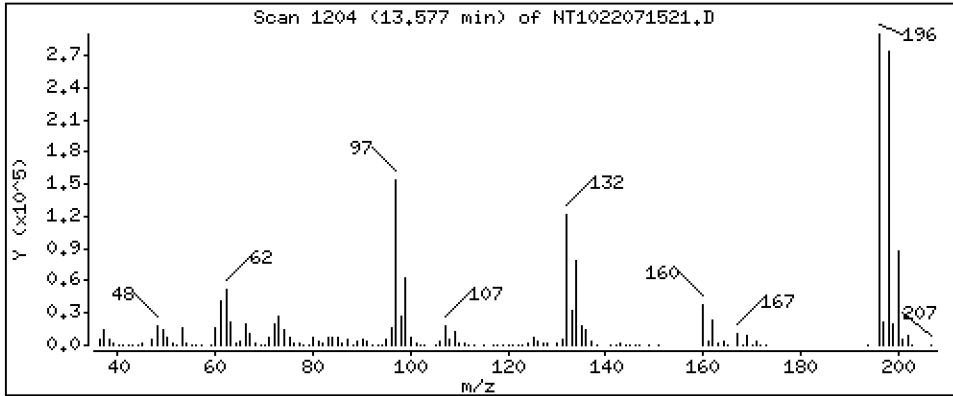
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 11,96 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

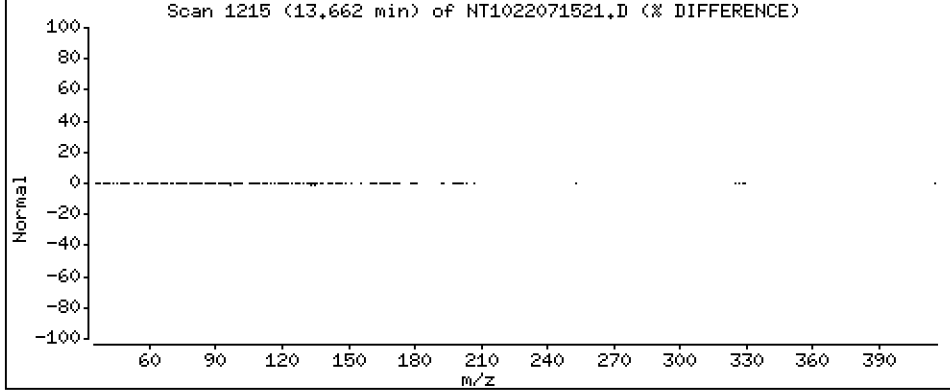
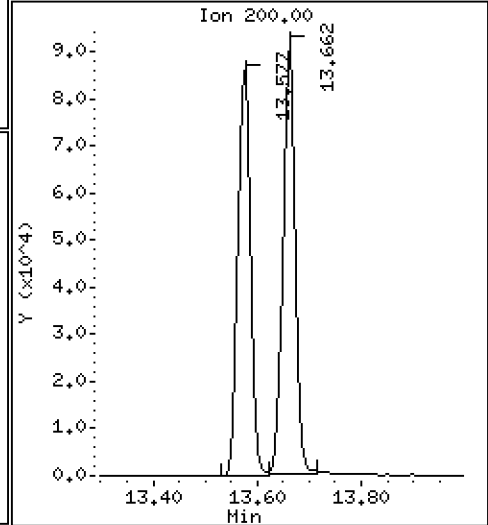
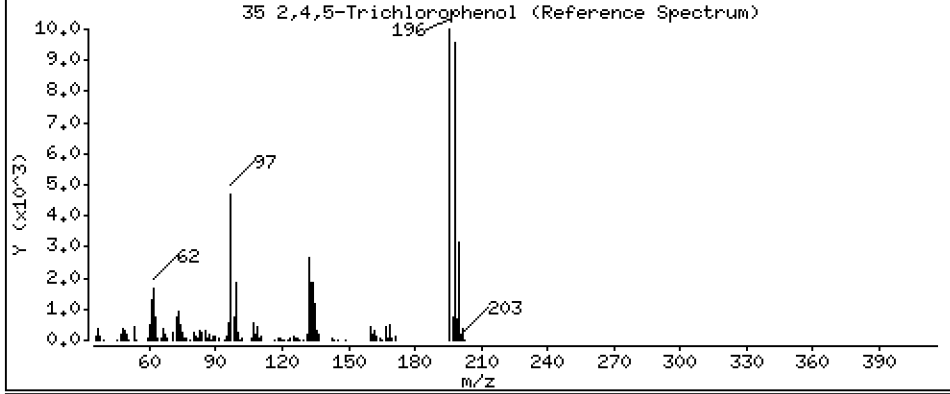
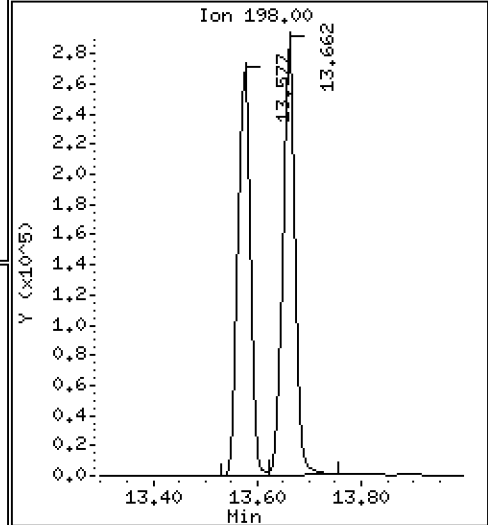
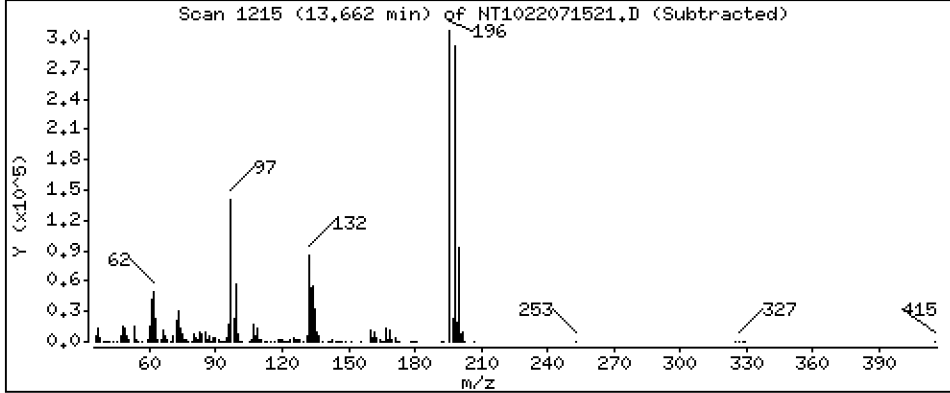
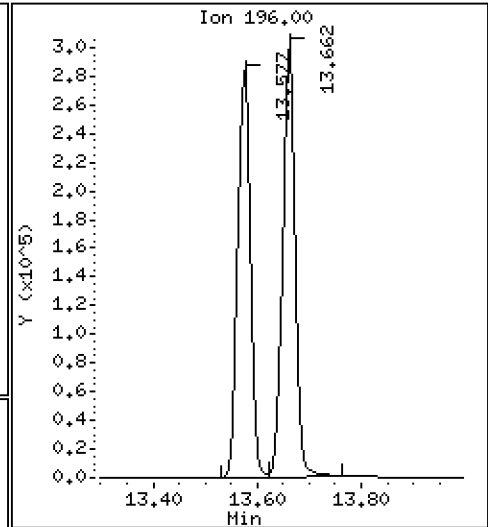
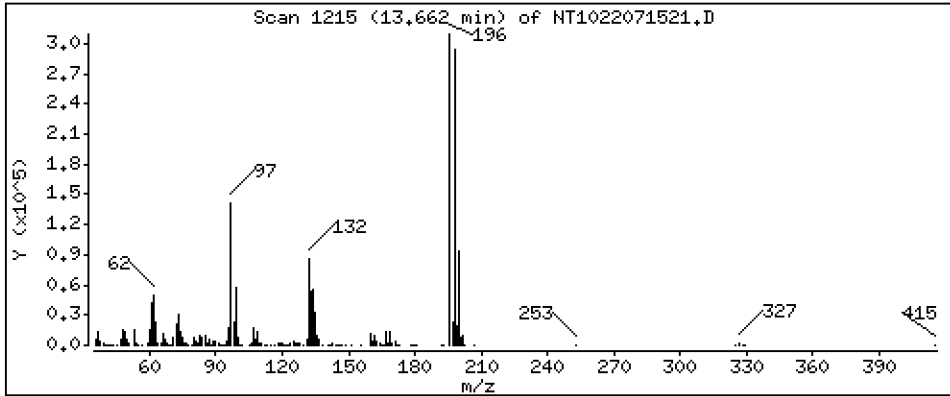
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

35 2,4,5-Trichlorophenol

Concentration: 10.89 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

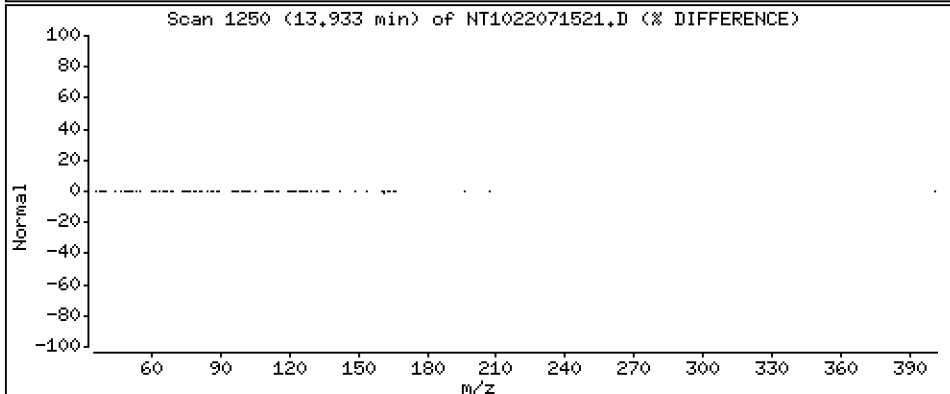
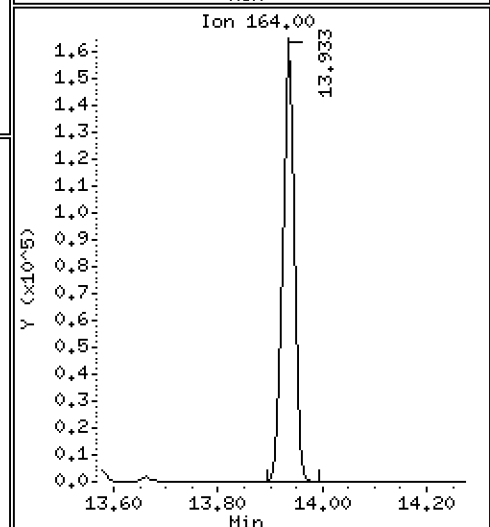
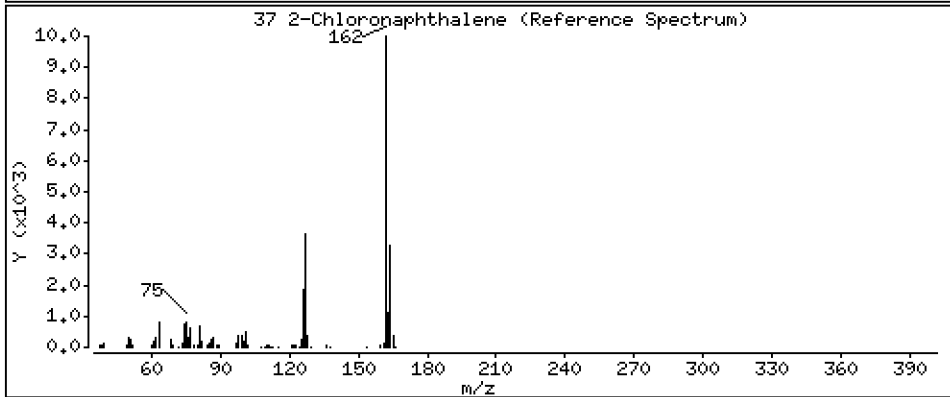
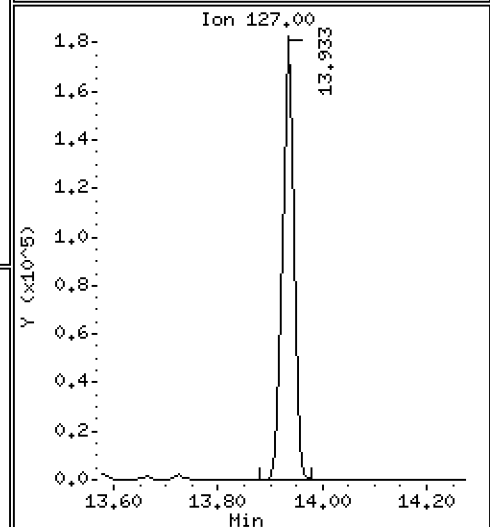
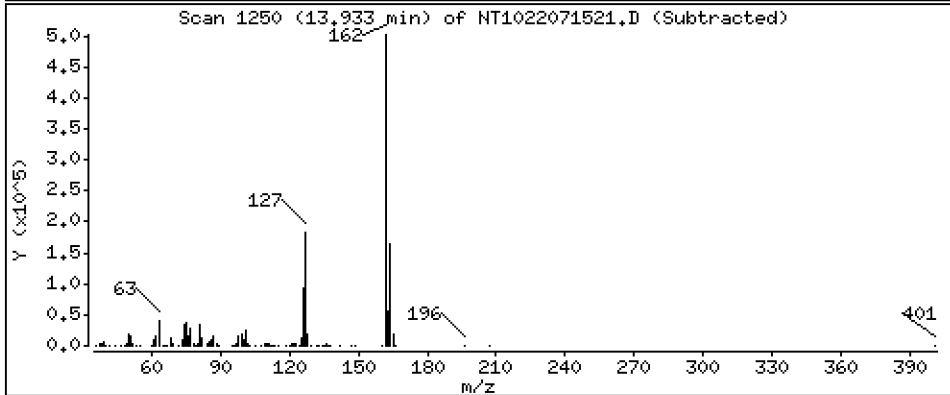
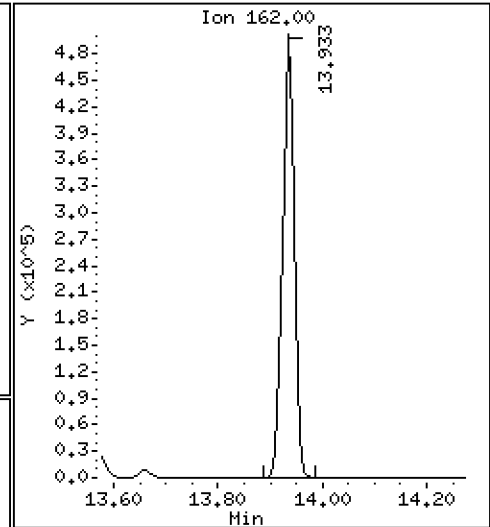
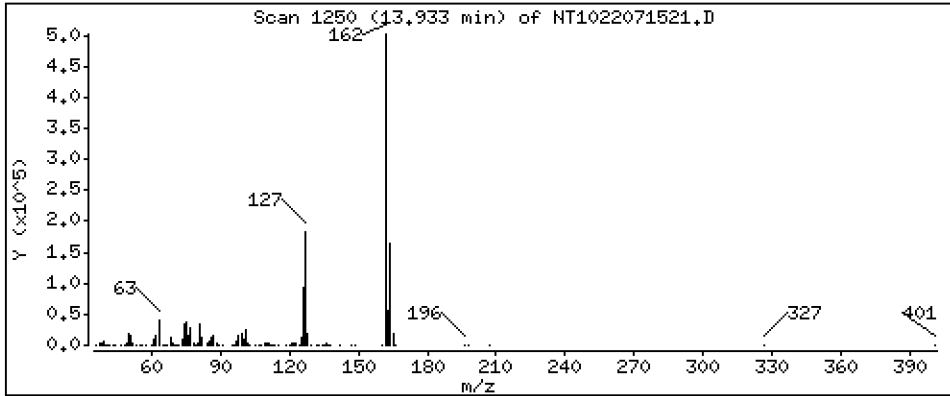
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 5,592 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

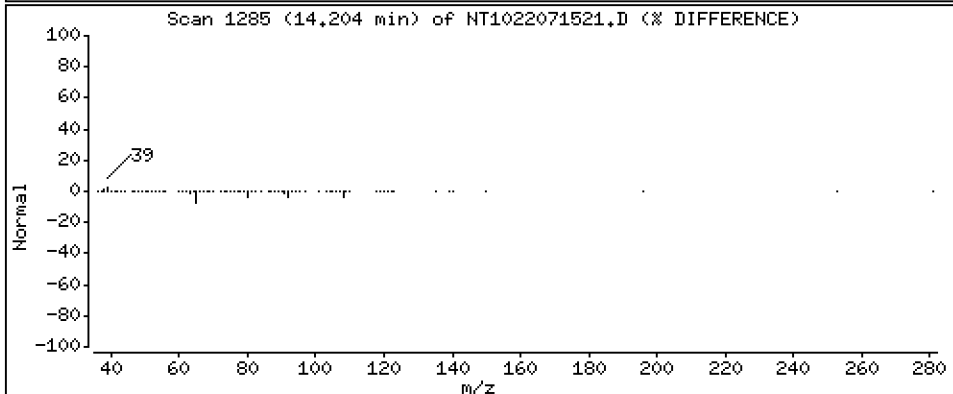
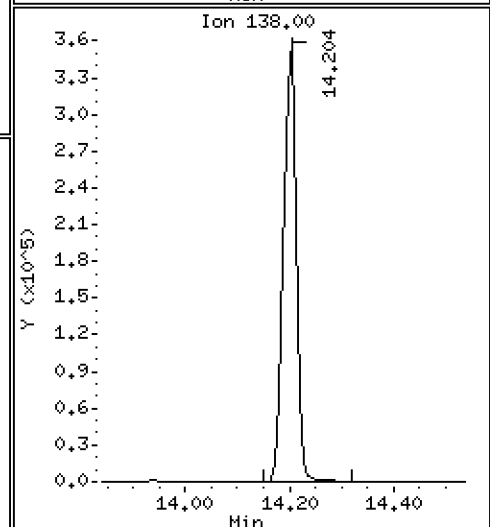
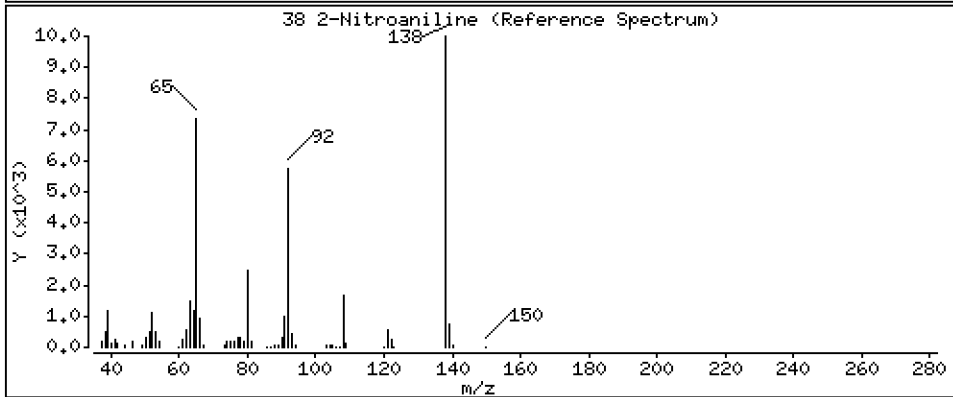
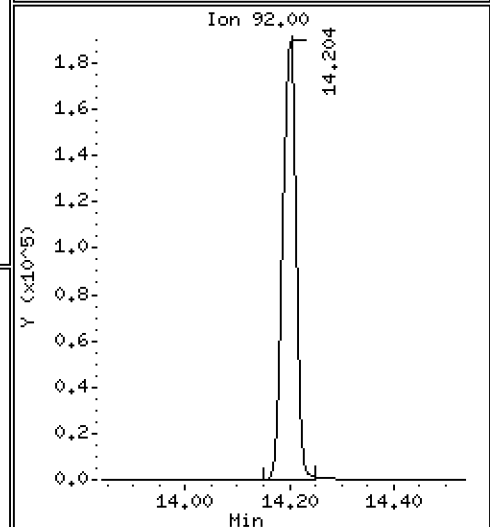
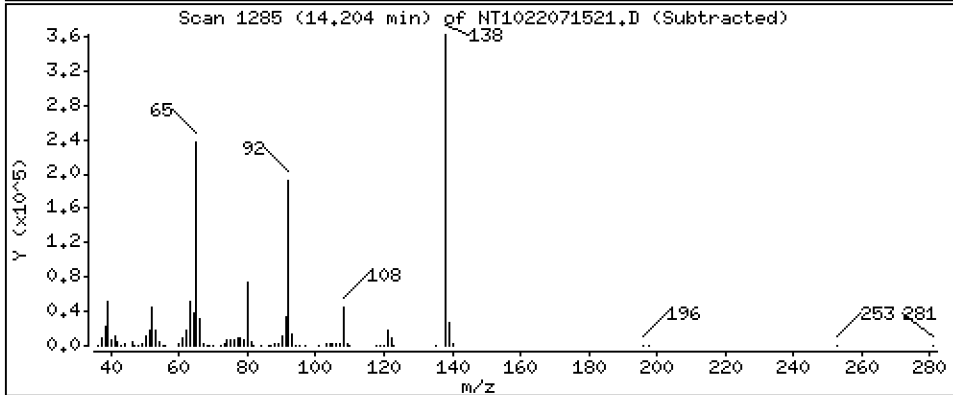
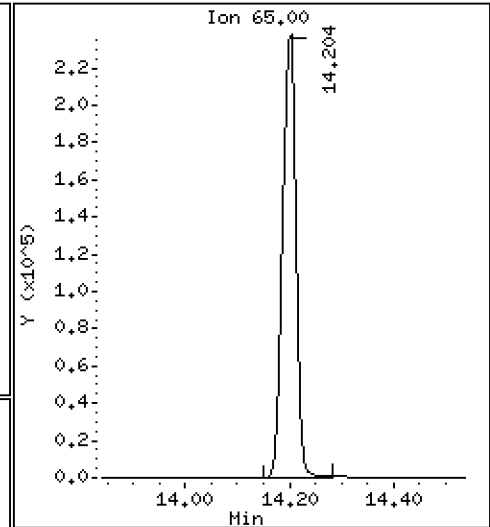
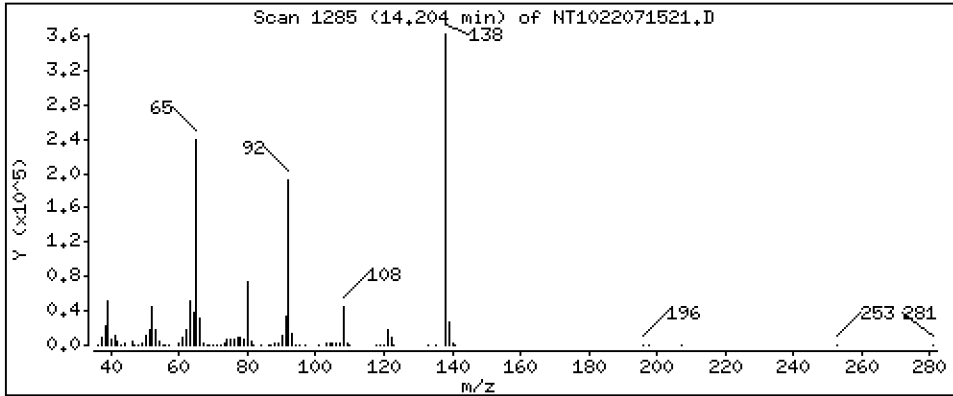
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 11,07 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

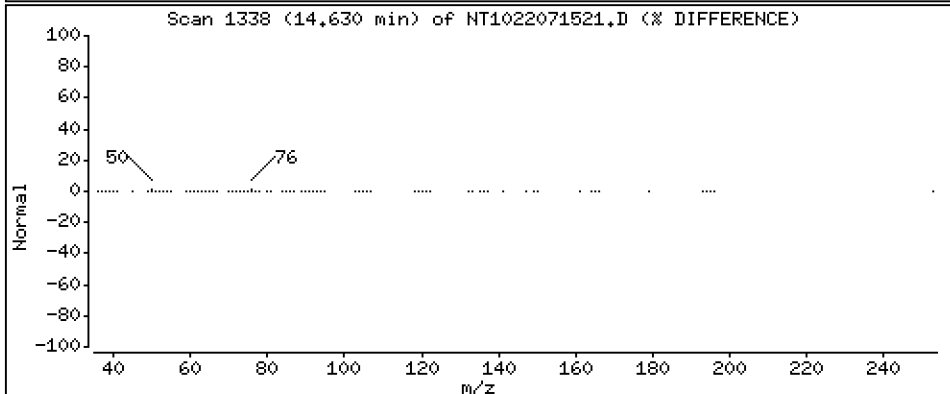
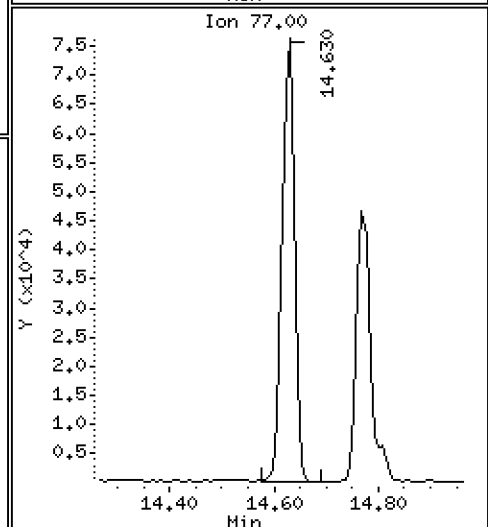
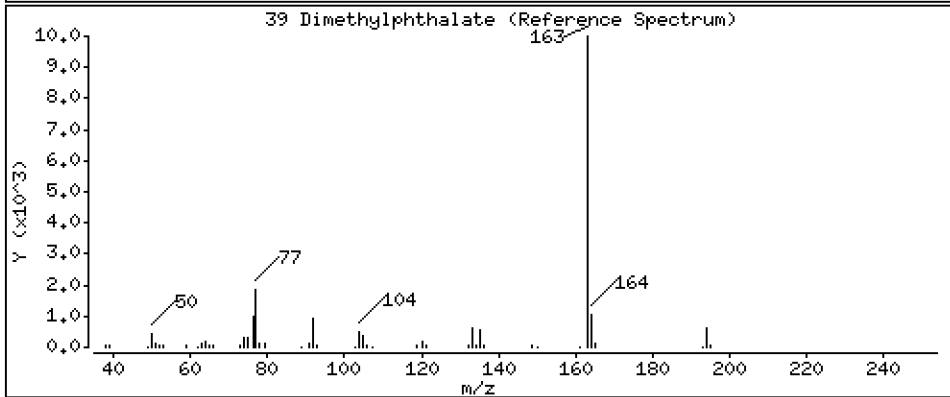
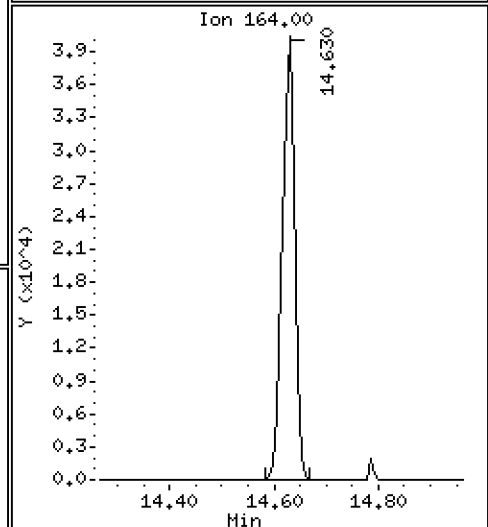
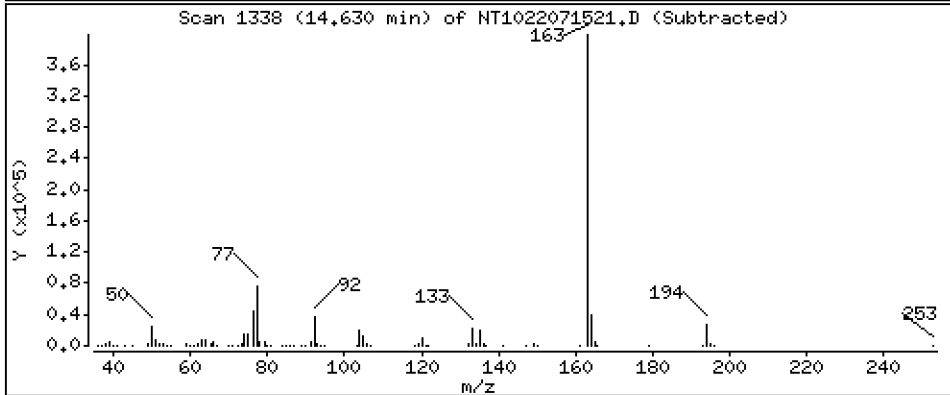
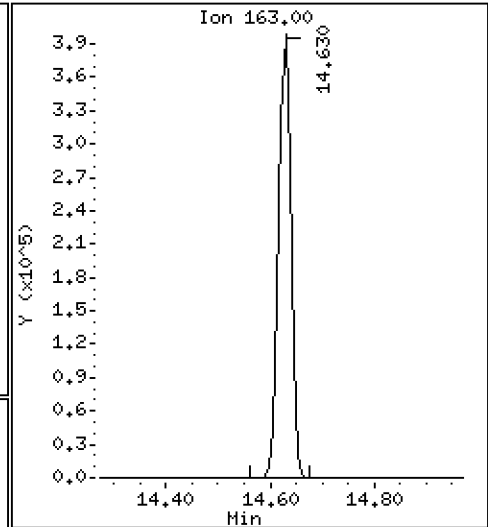
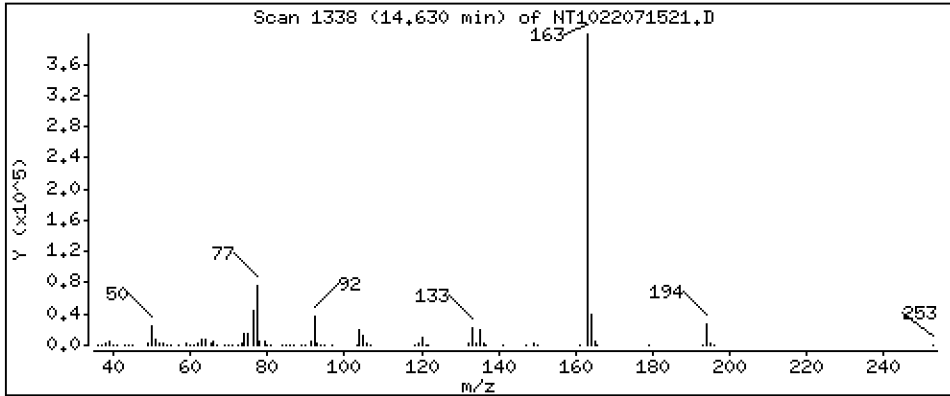
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,231 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

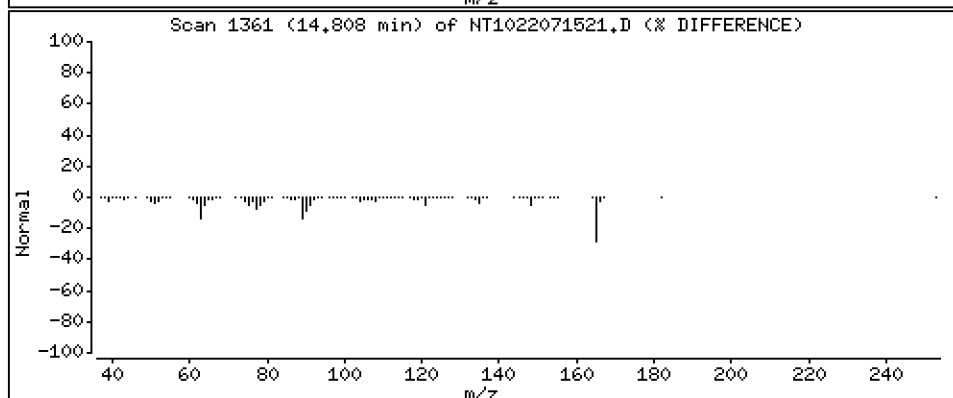
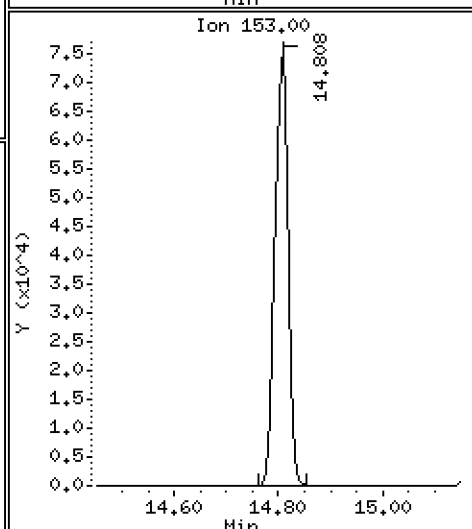
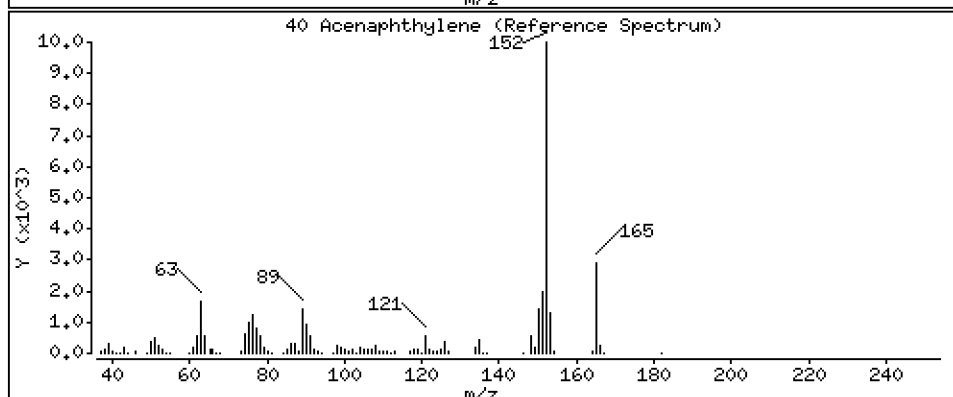
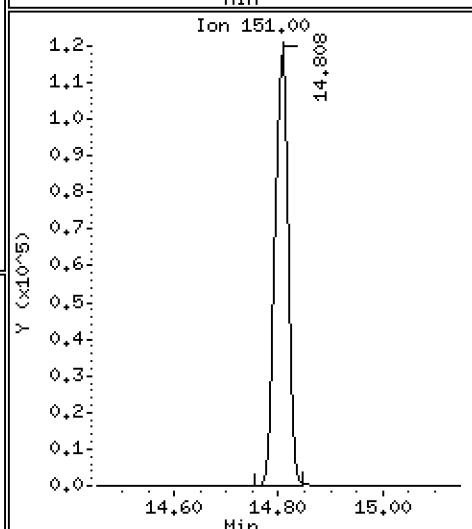
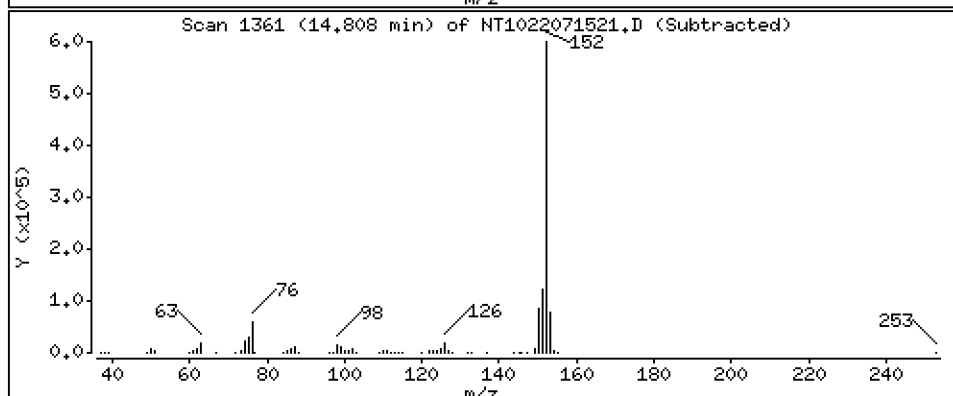
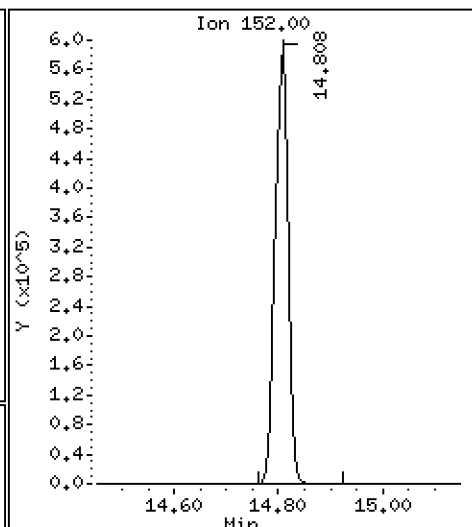
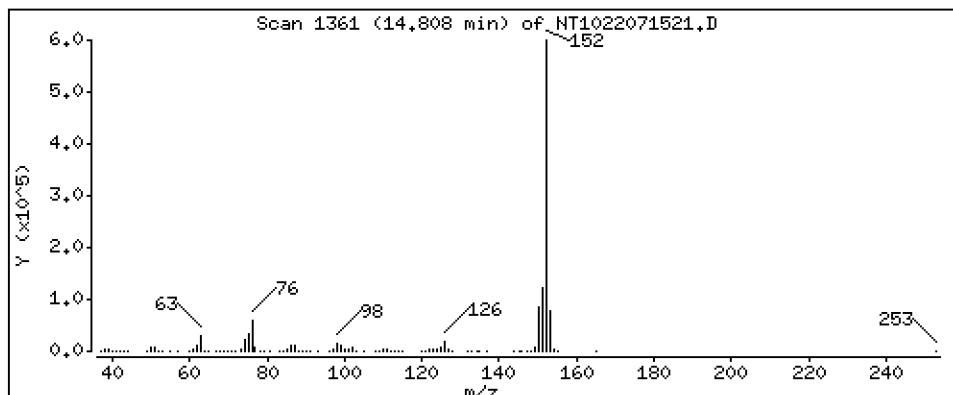
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,954 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

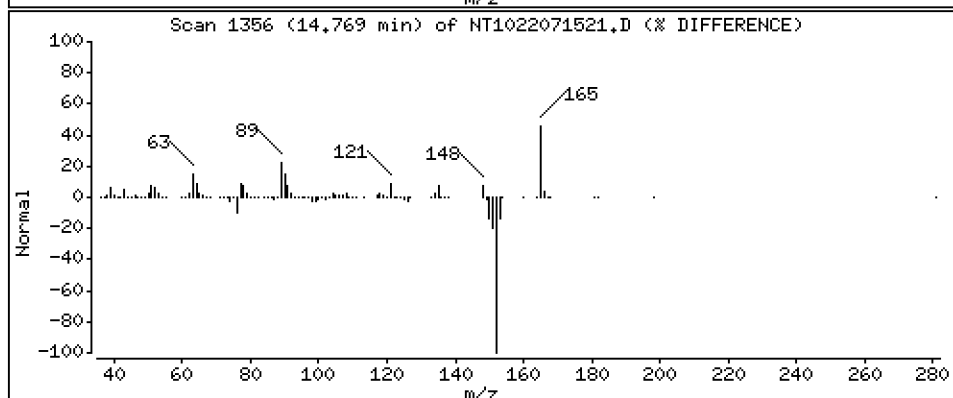
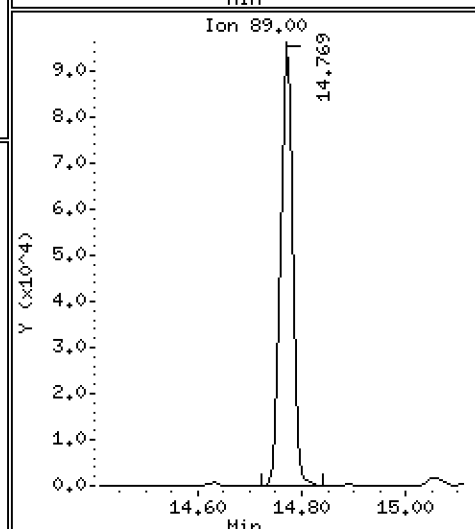
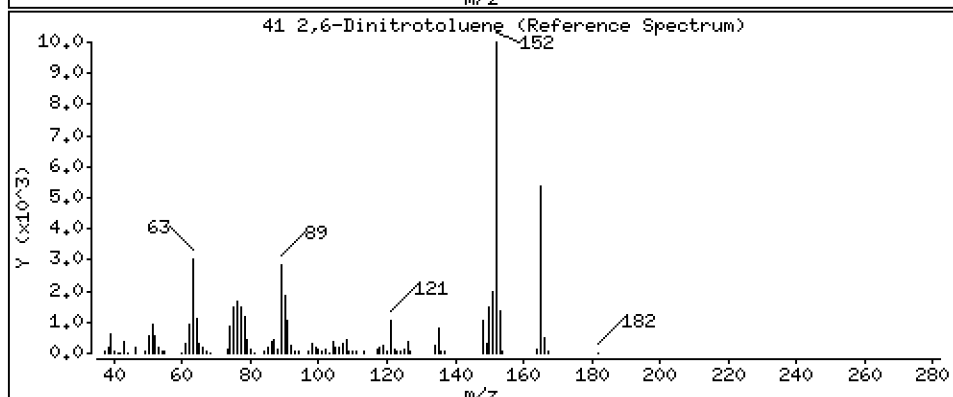
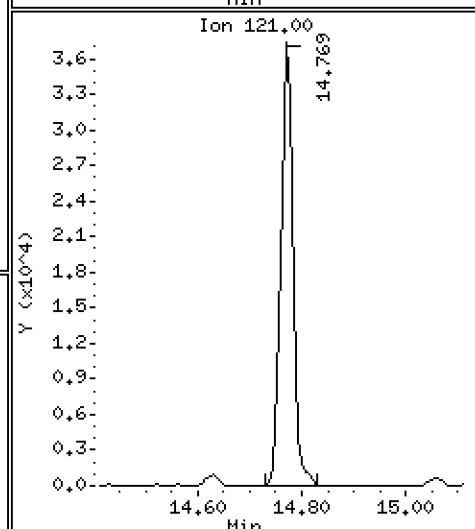
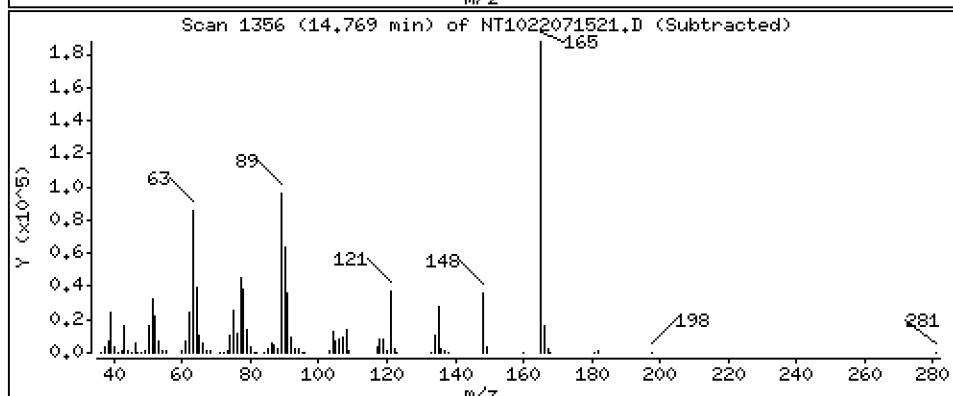
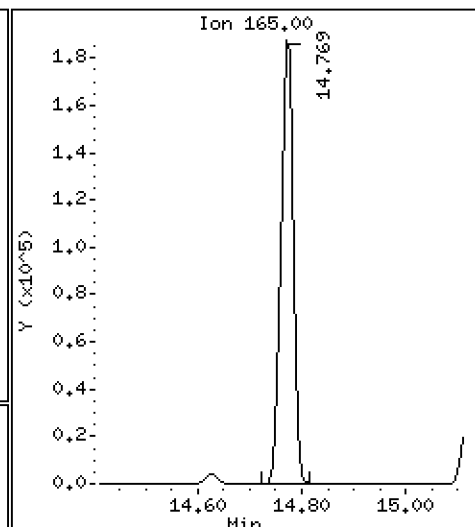
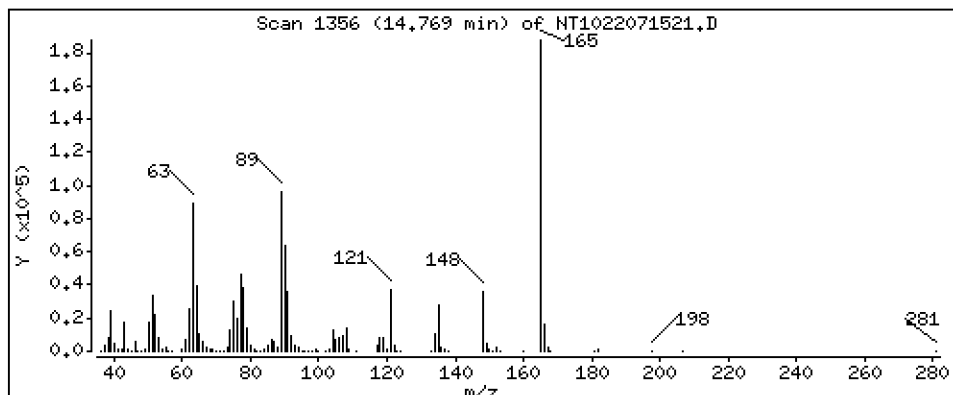
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 11,01 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

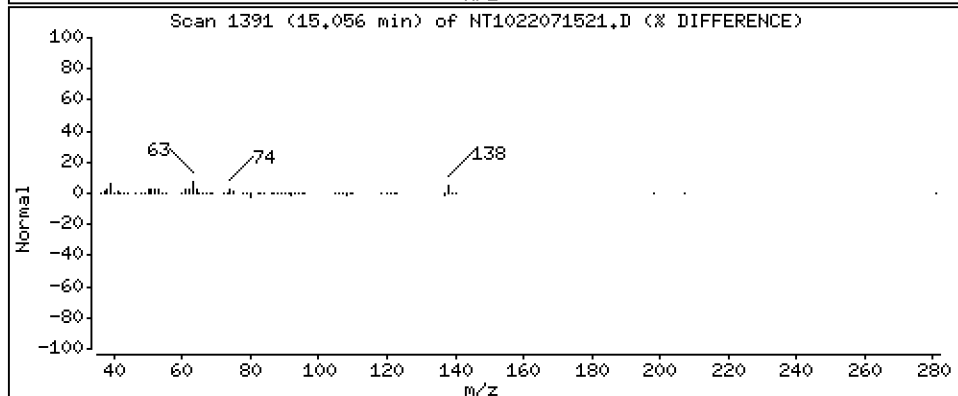
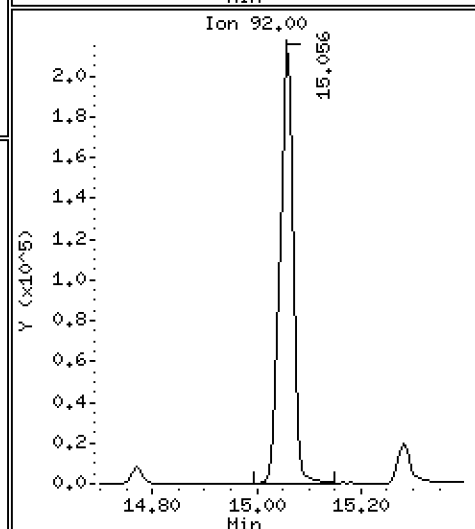
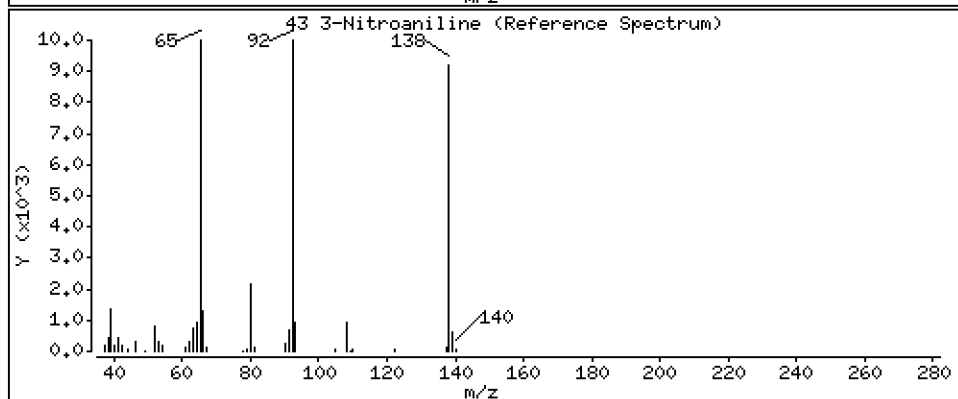
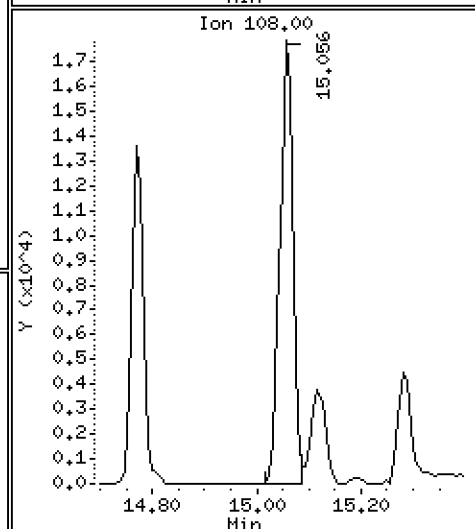
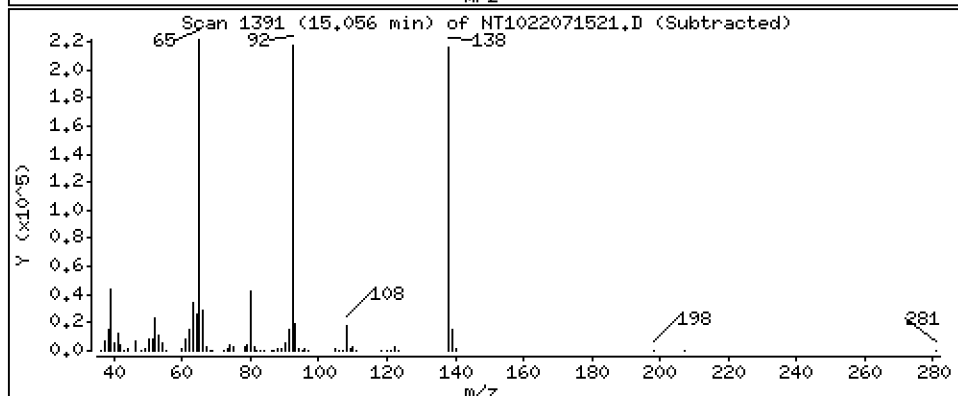
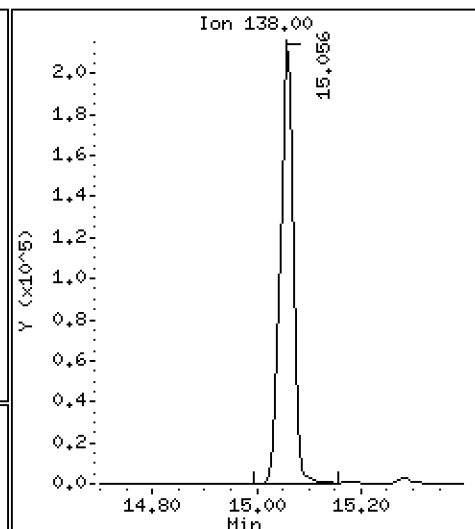
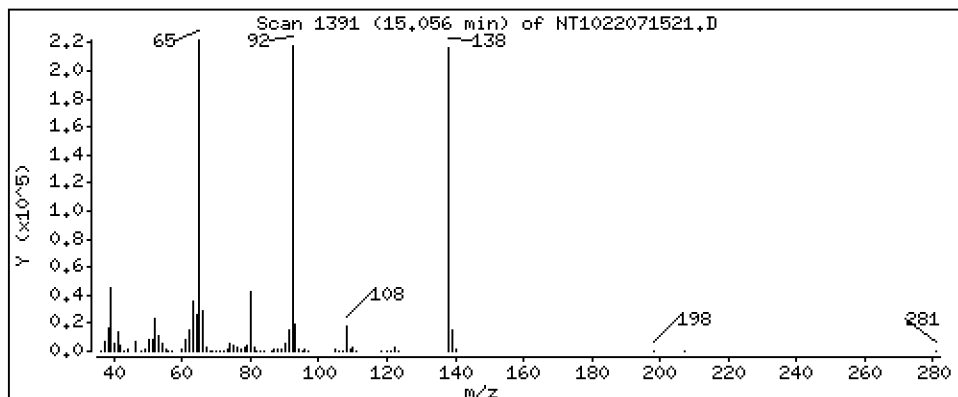
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 12,36 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

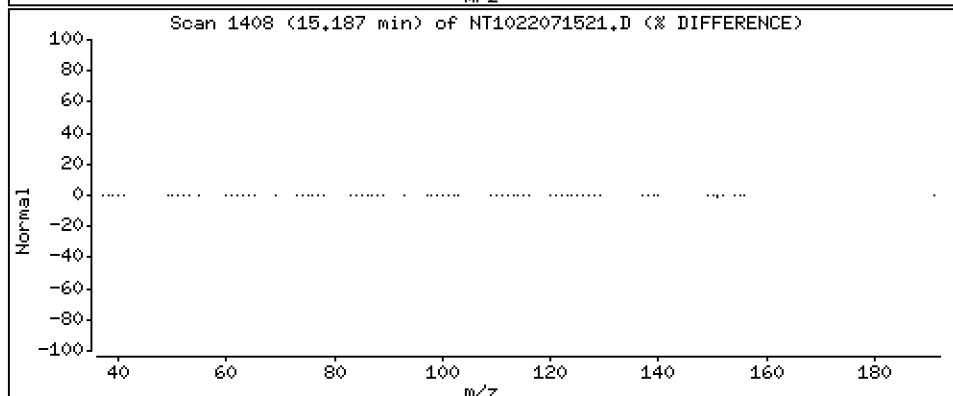
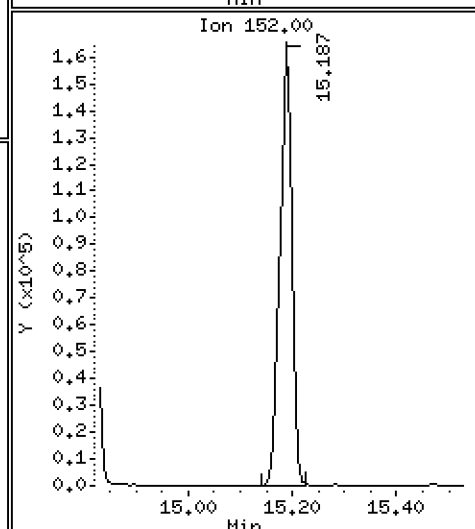
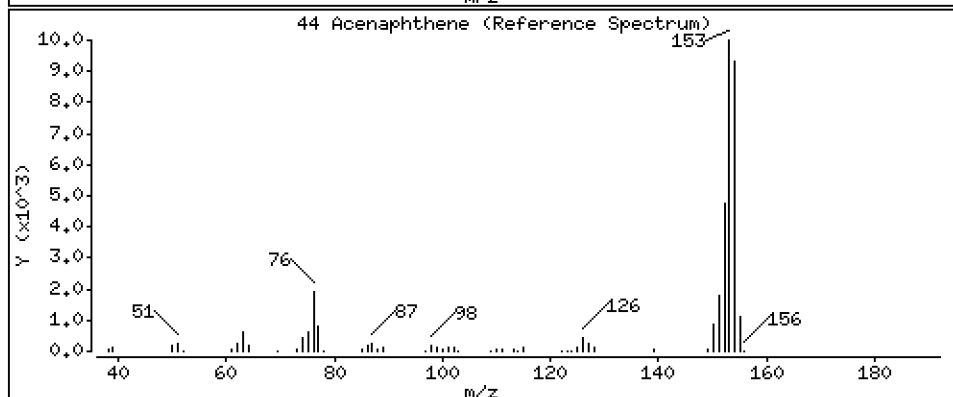
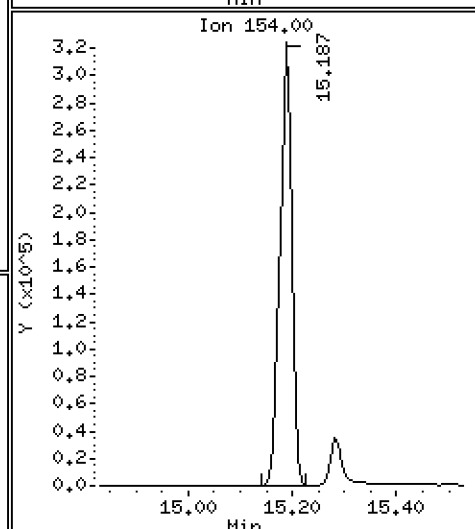
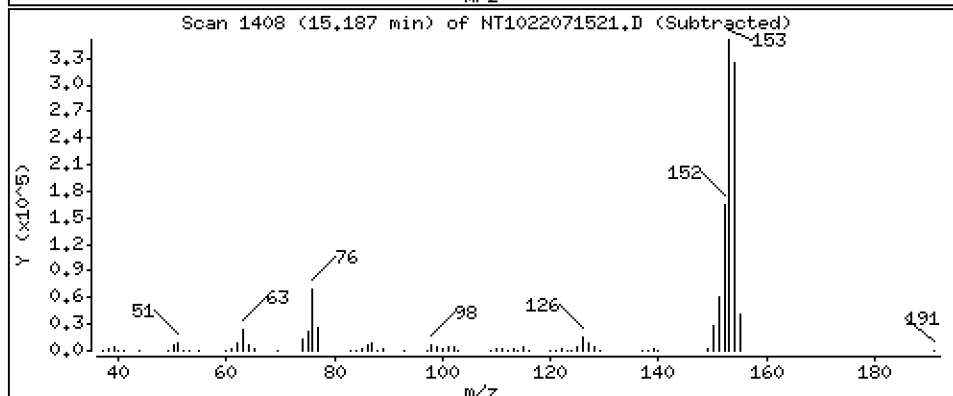
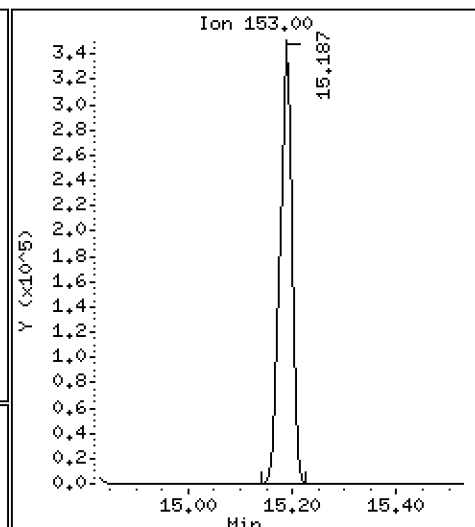
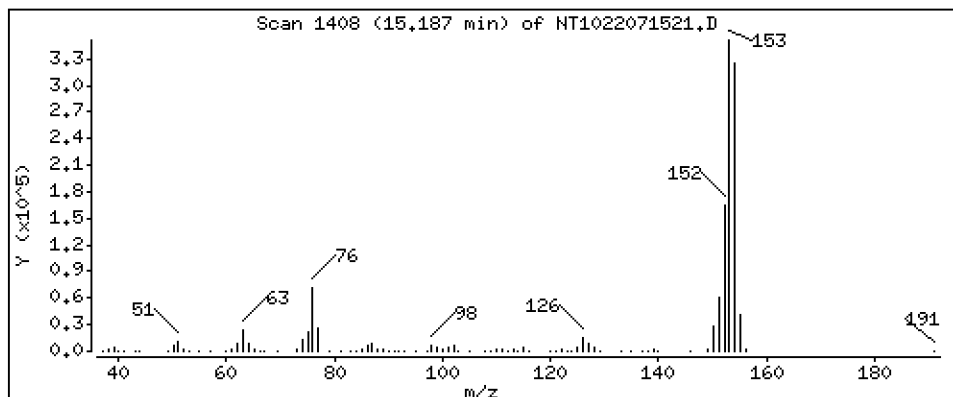
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 5,458 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

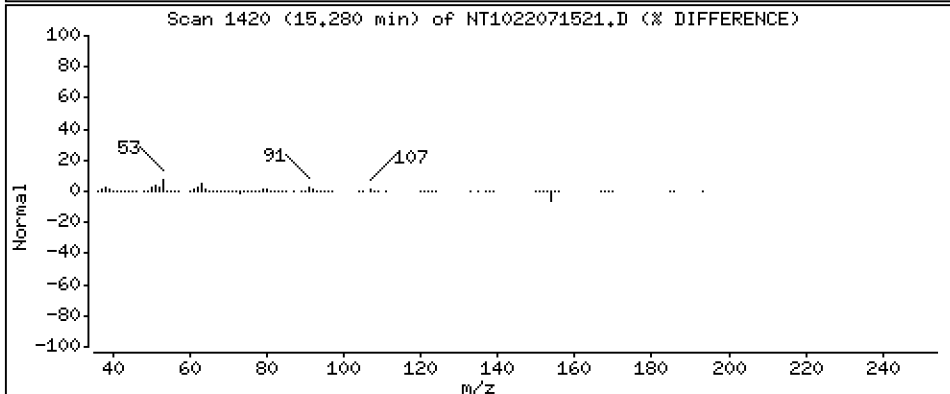
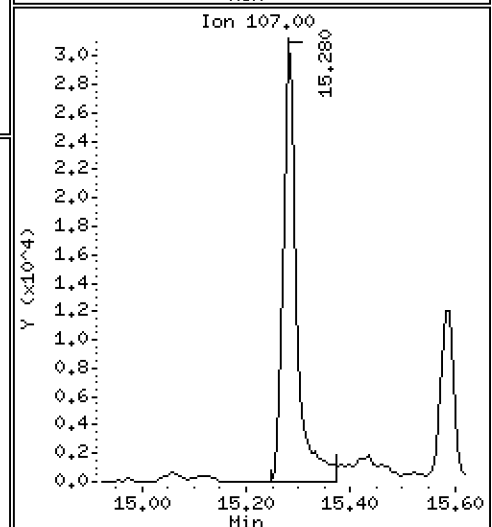
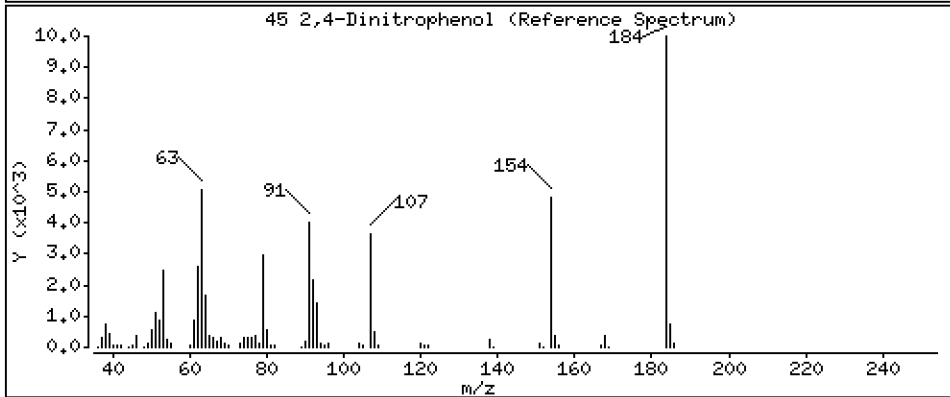
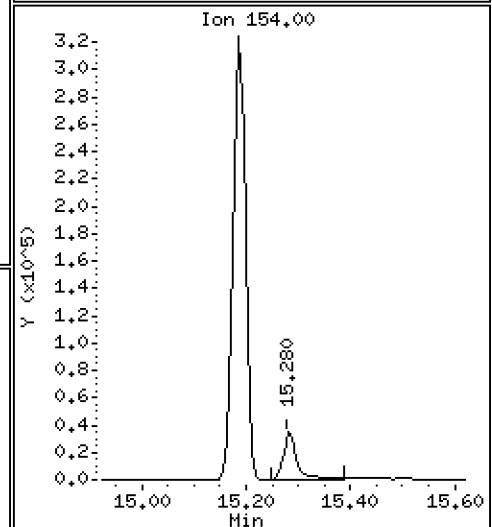
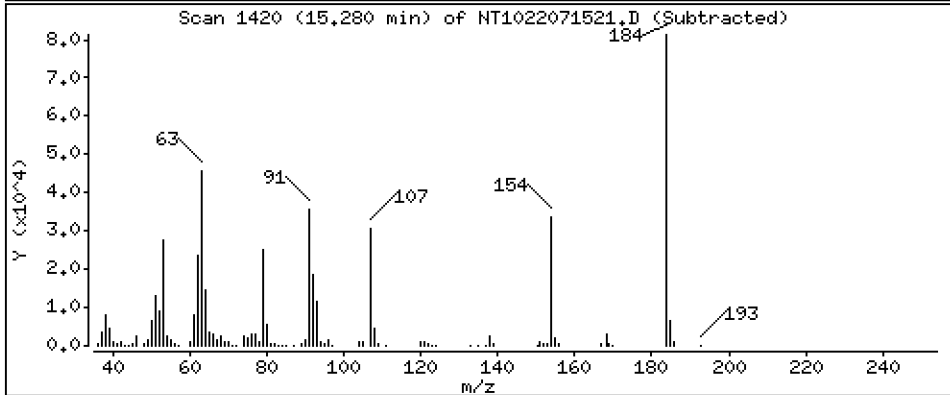
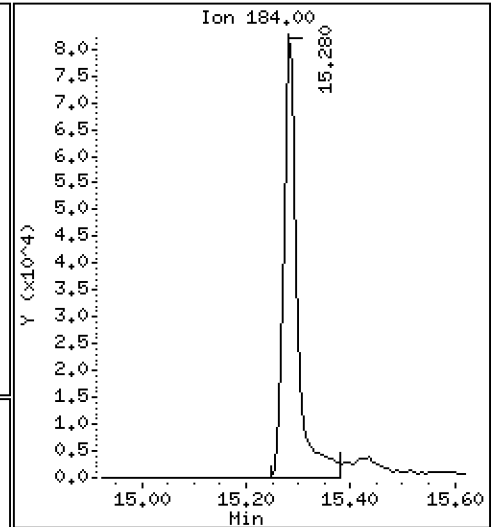
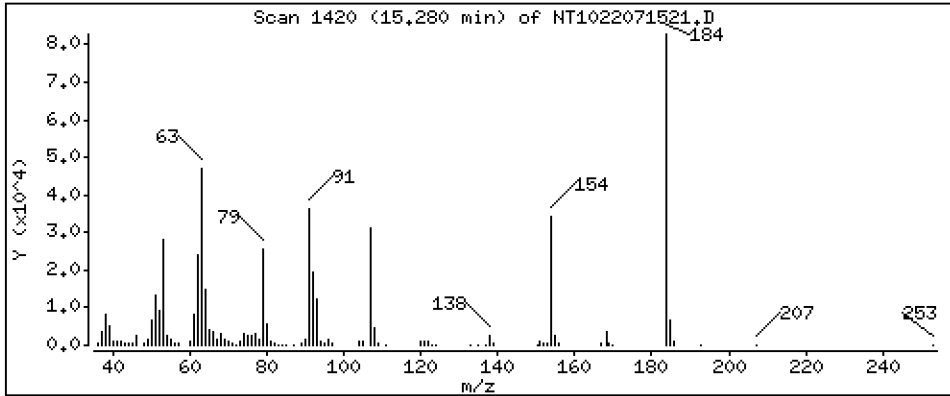
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 11,84 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

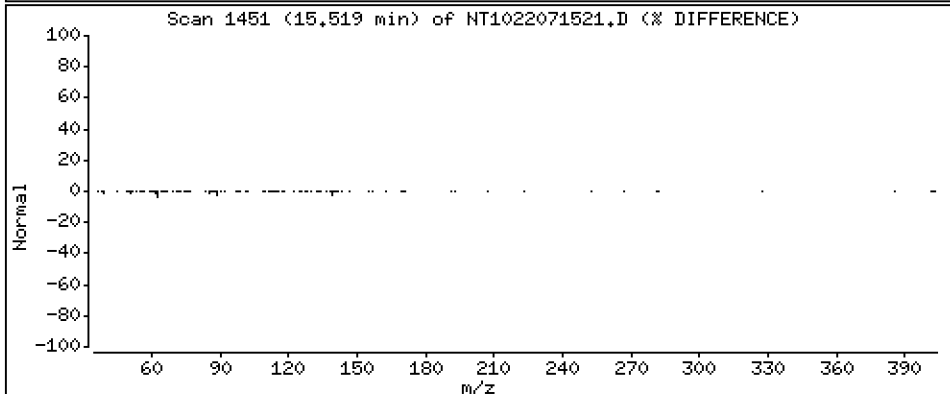
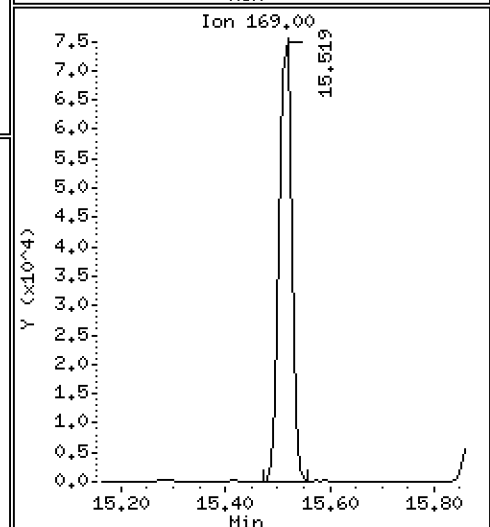
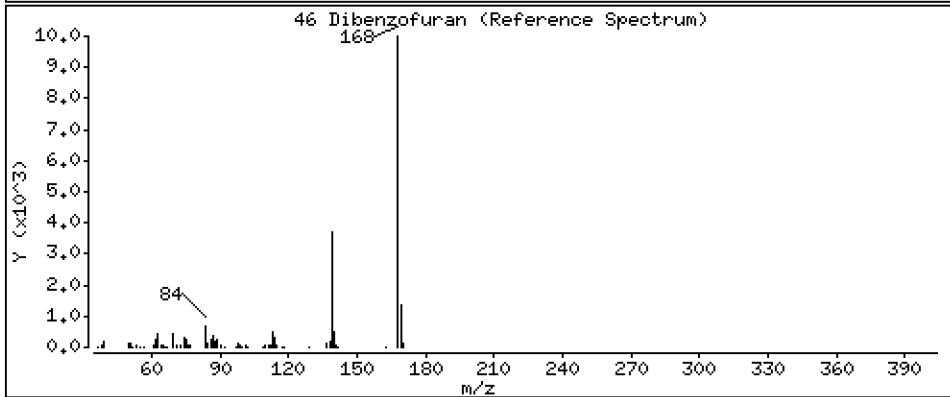
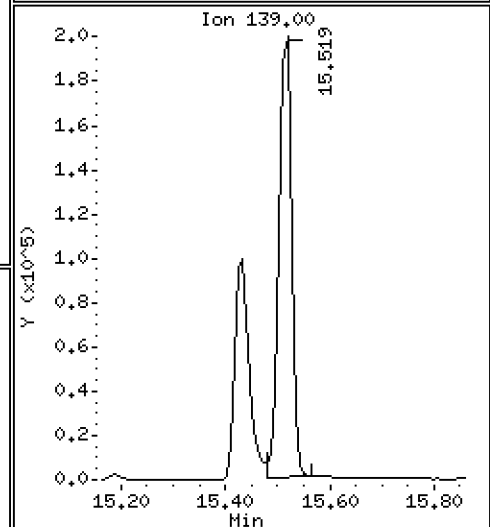
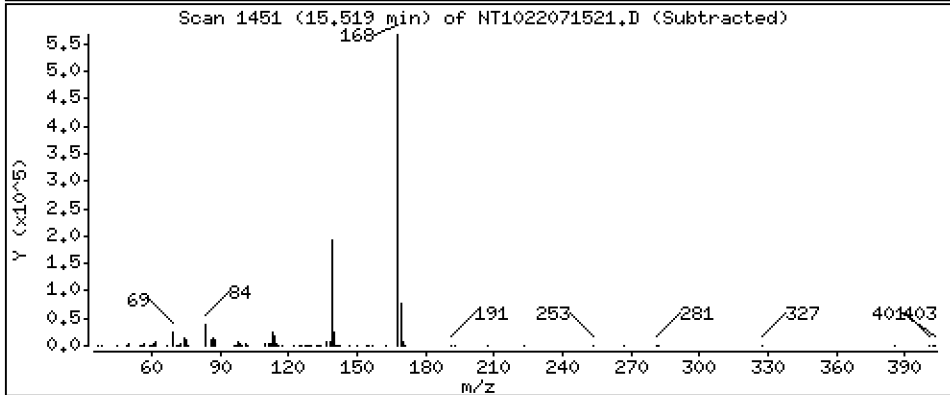
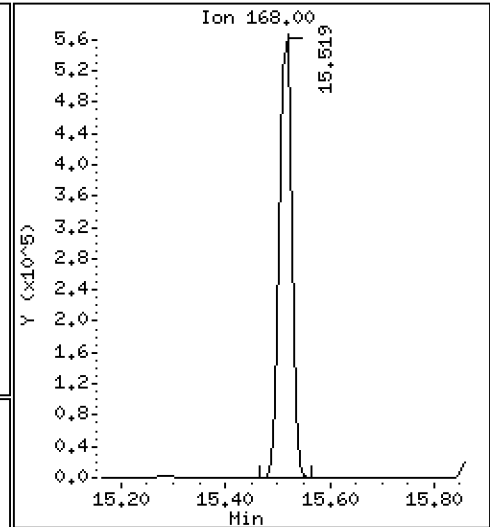
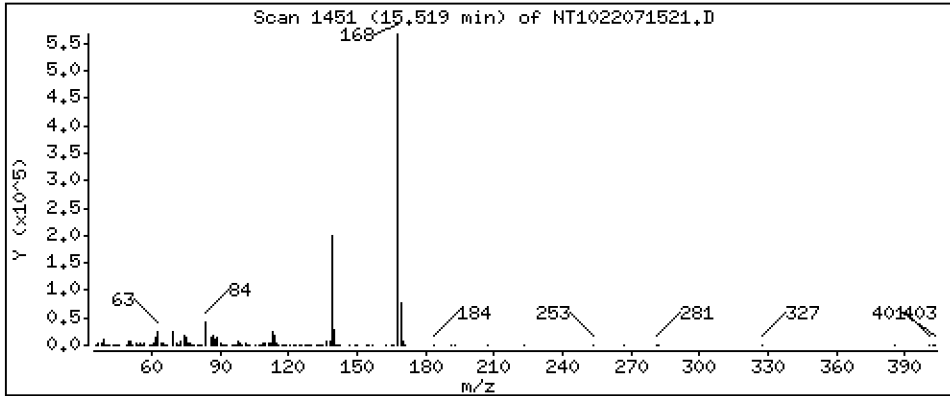
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 5,590 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

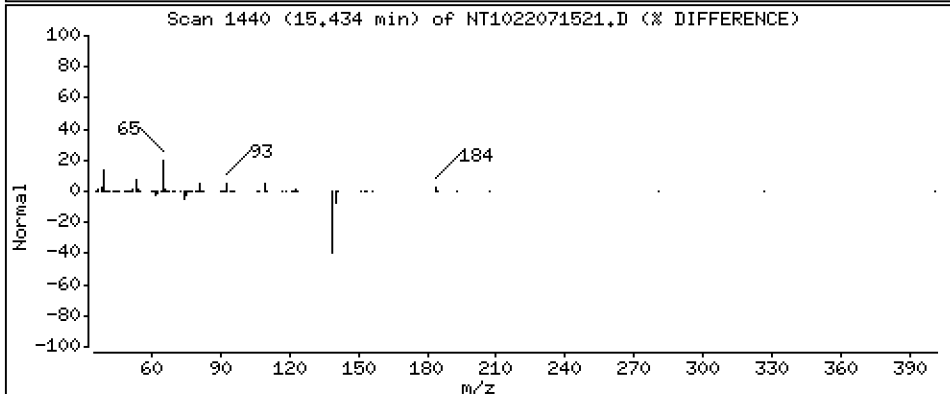
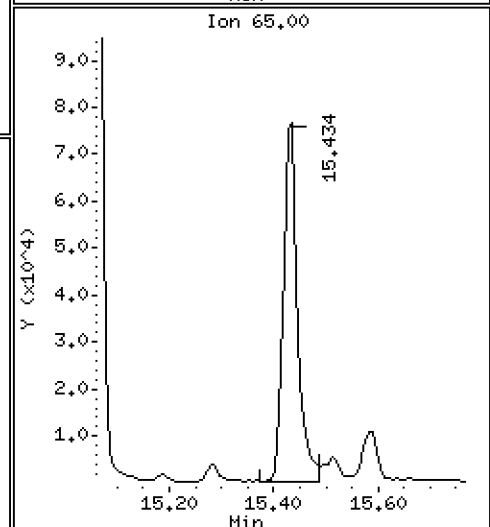
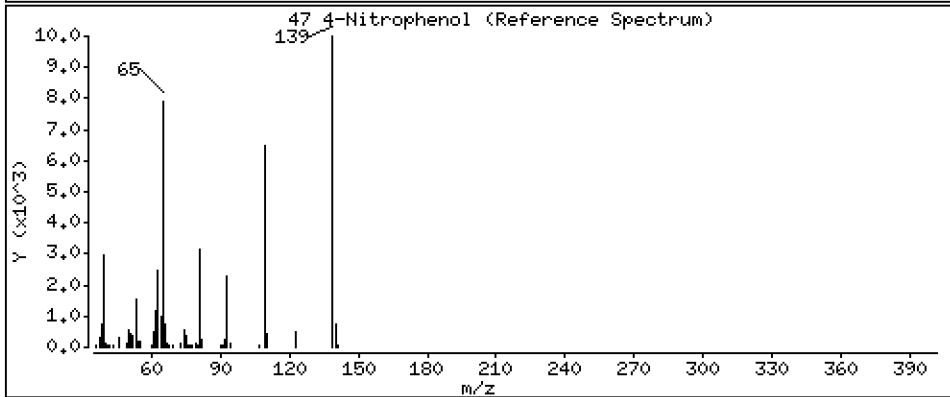
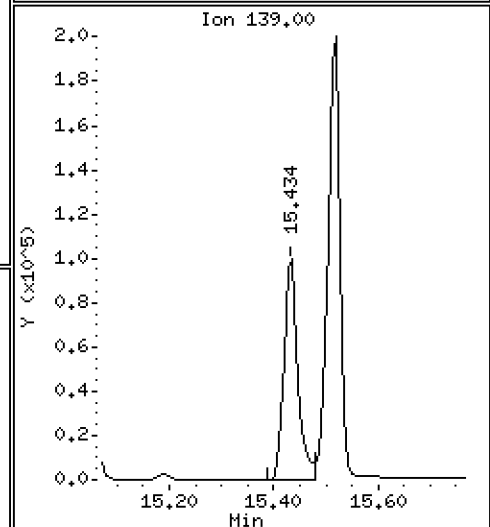
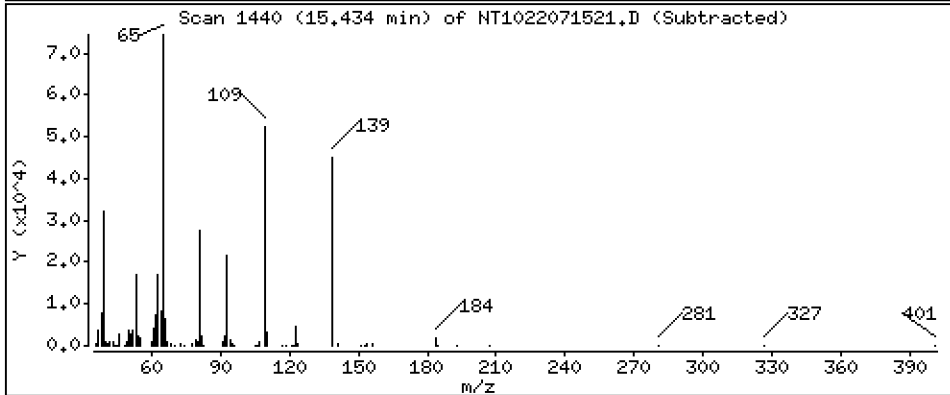
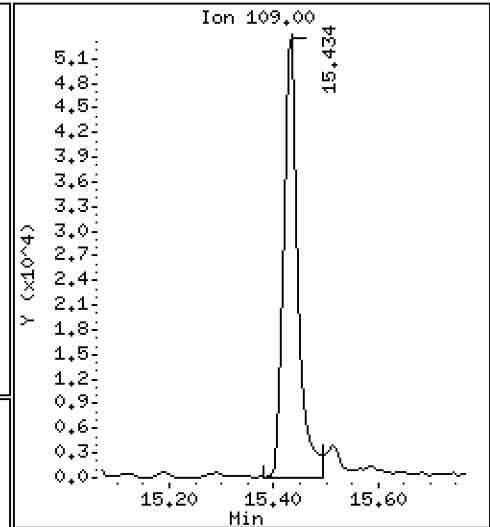
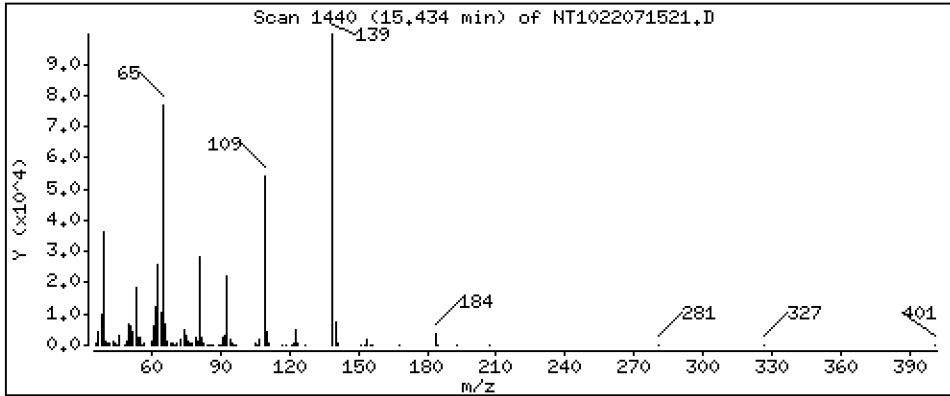
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 9,493 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

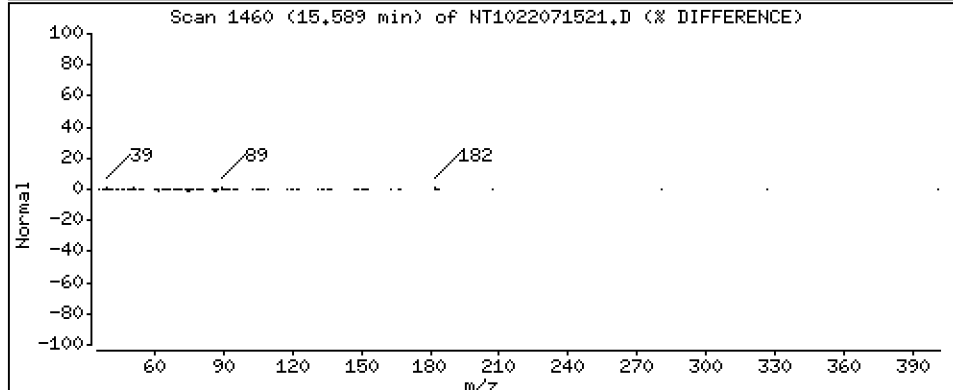
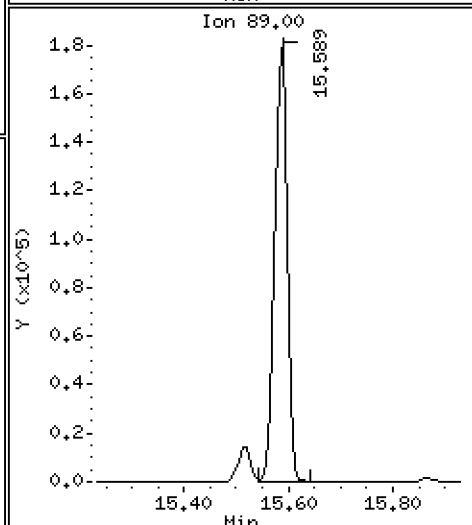
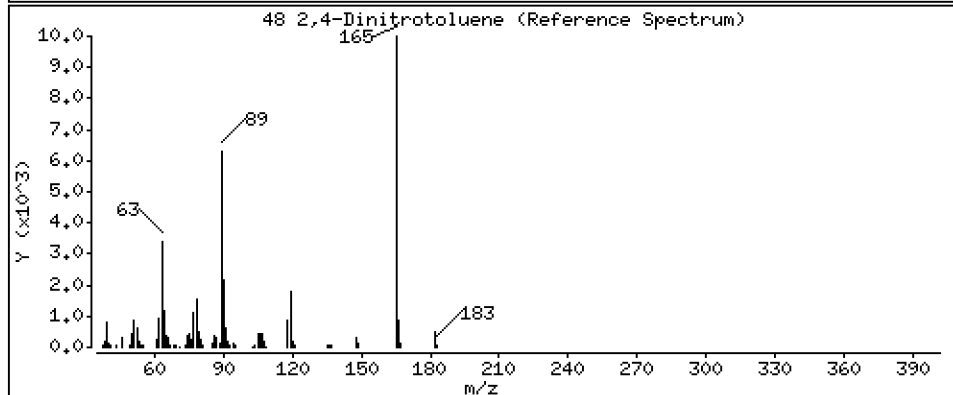
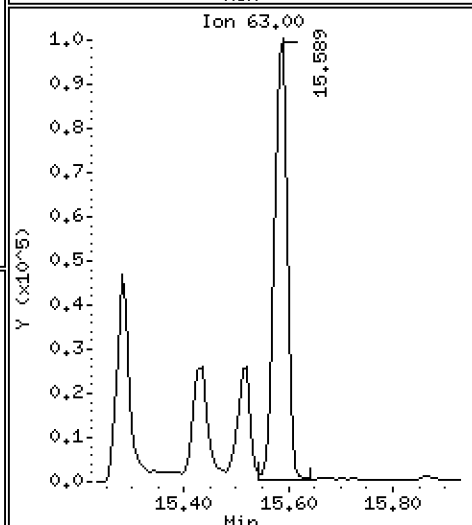
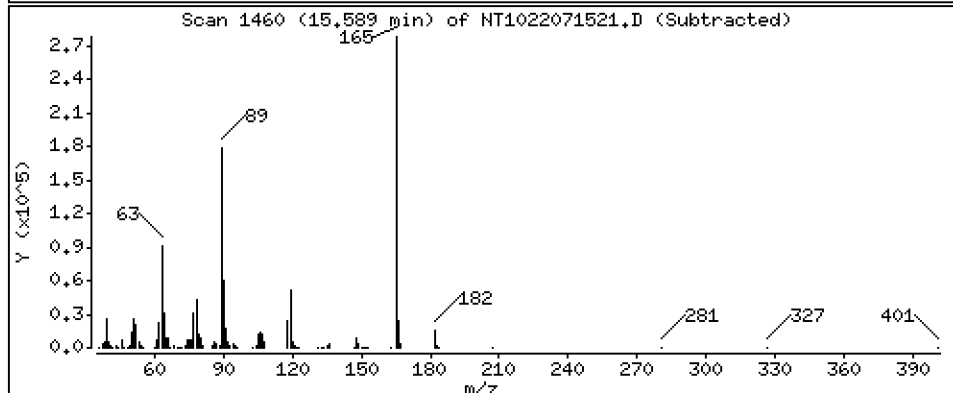
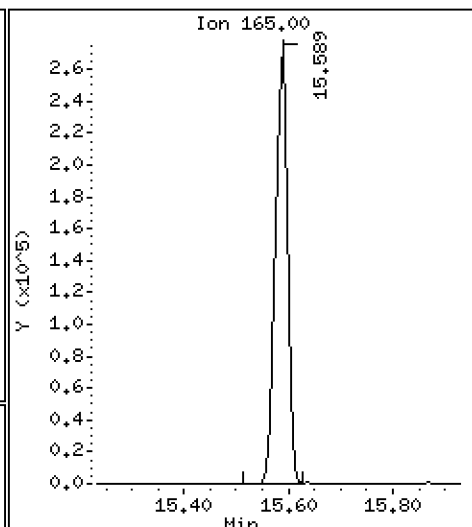
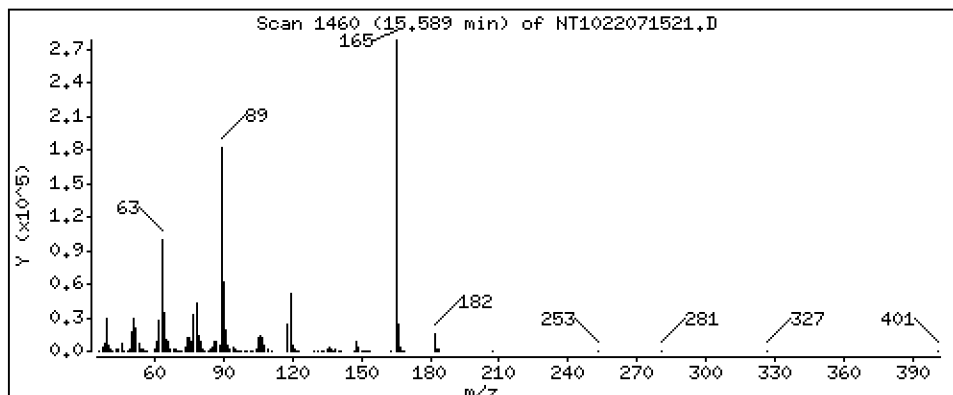
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 11,57 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

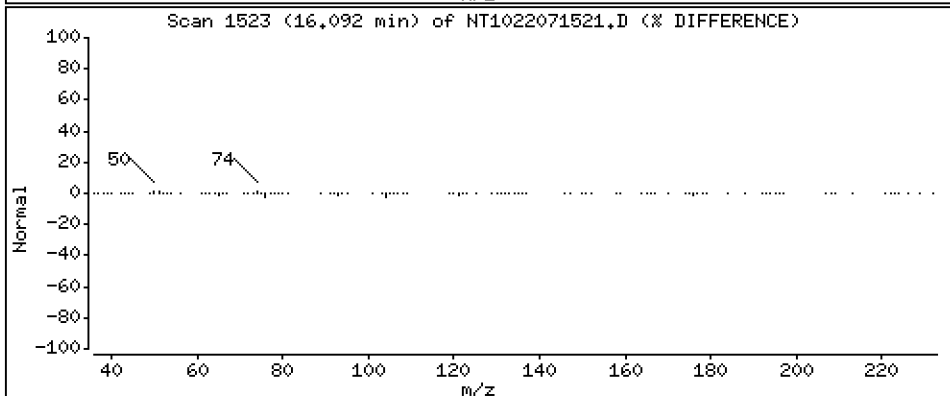
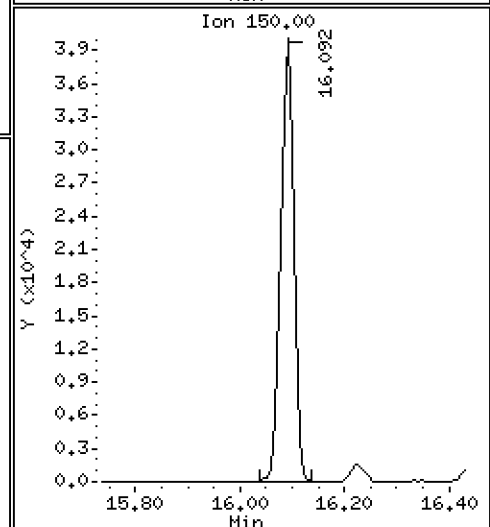
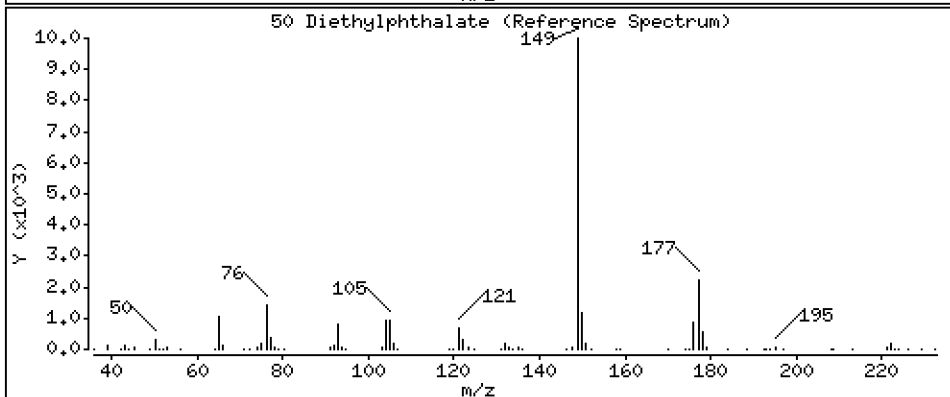
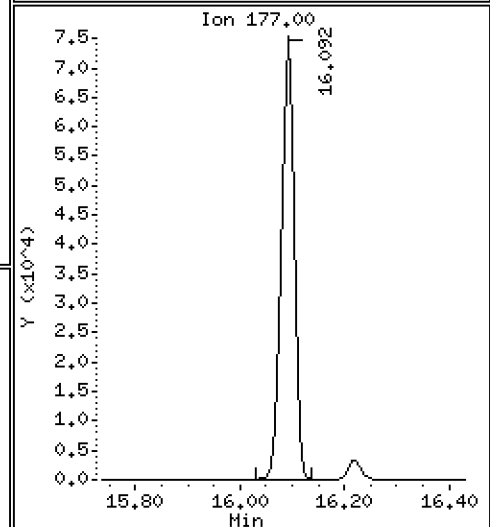
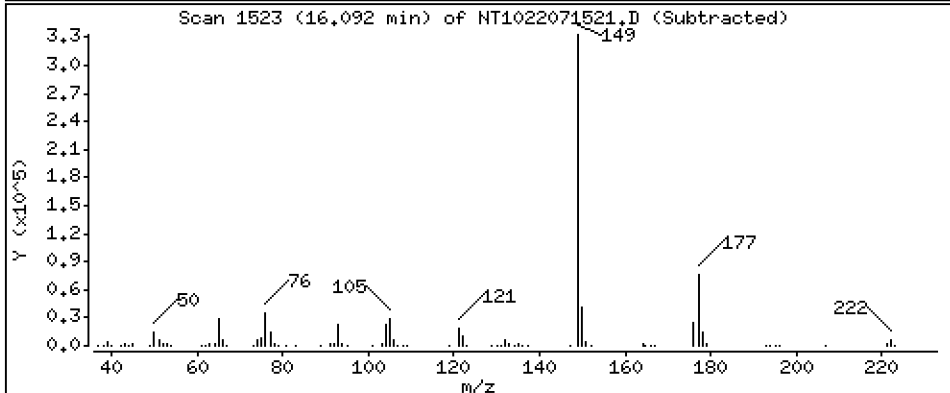
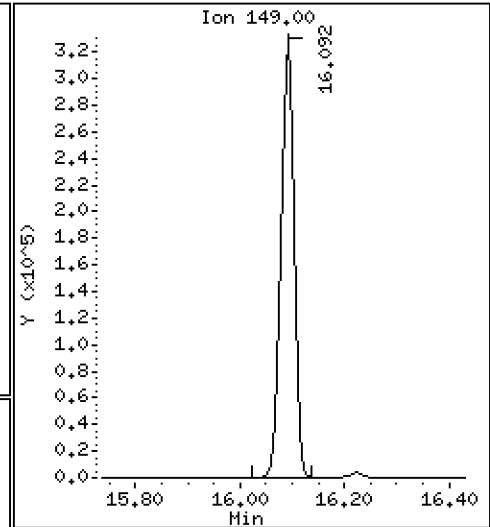
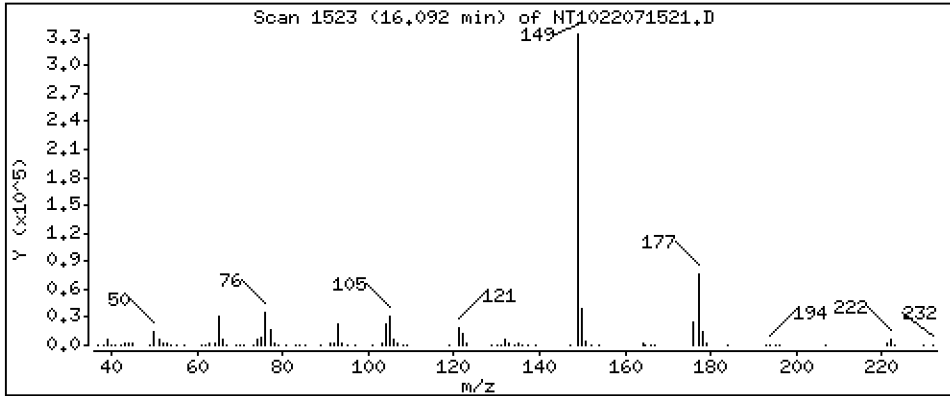
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,457 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

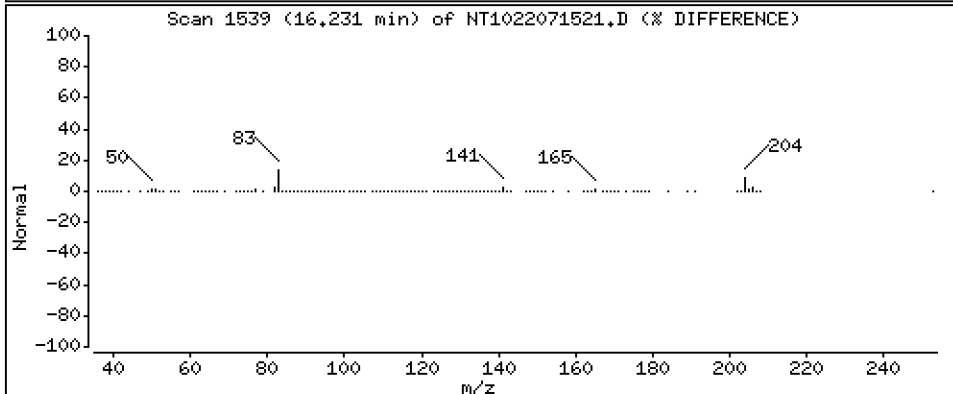
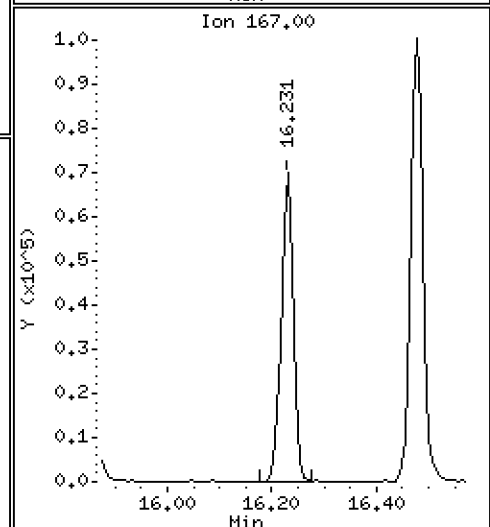
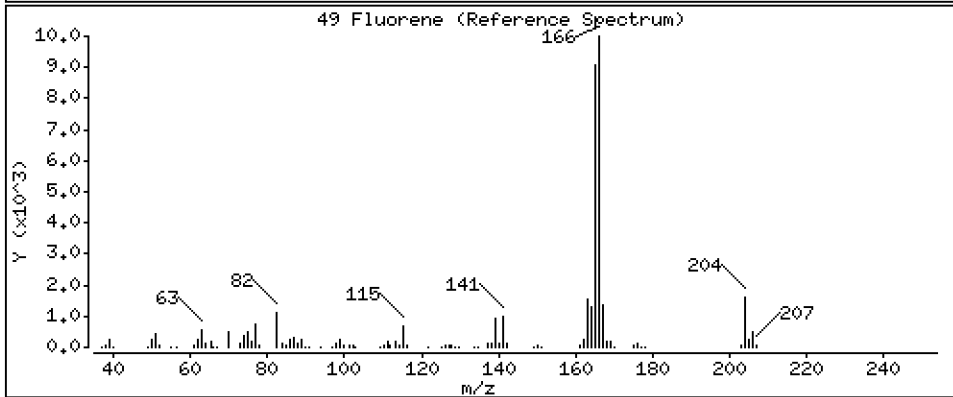
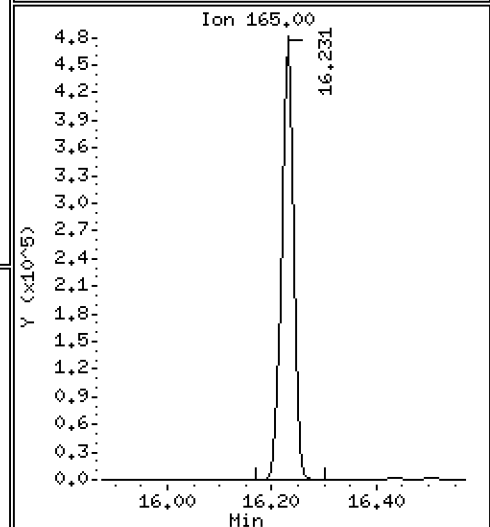
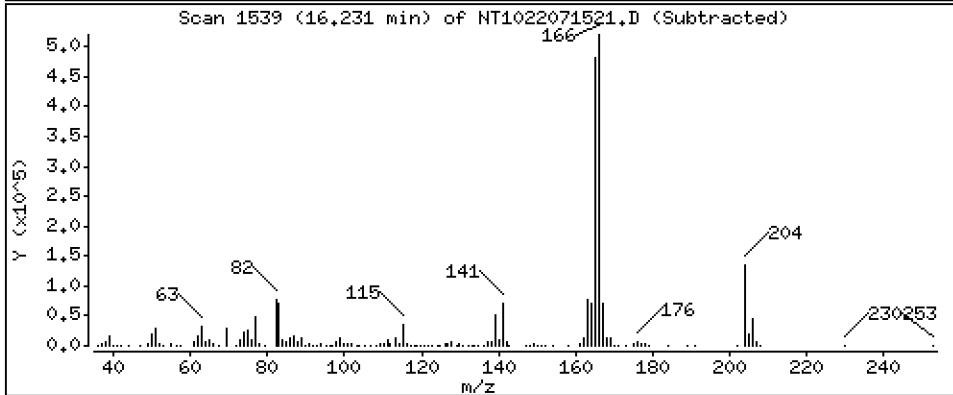
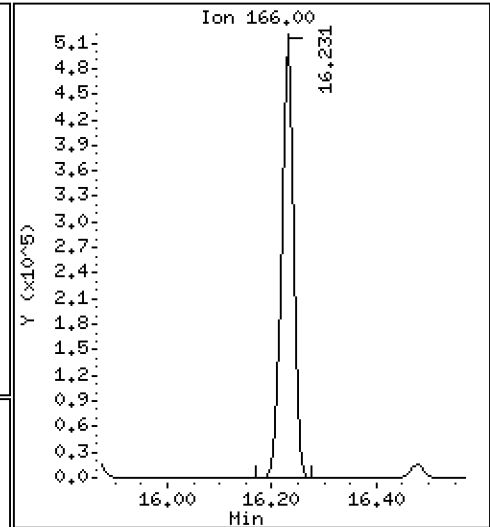
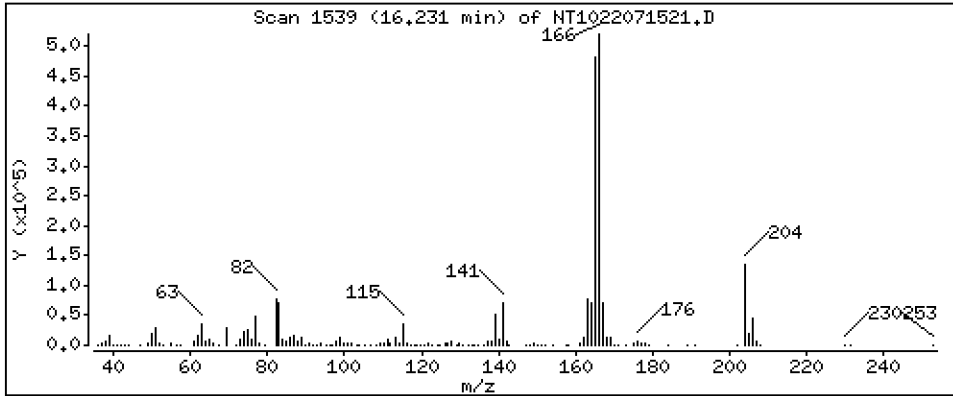
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,391 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

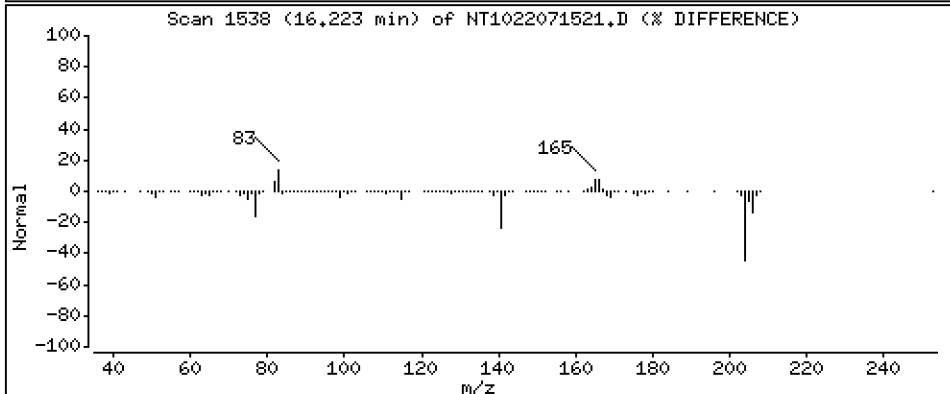
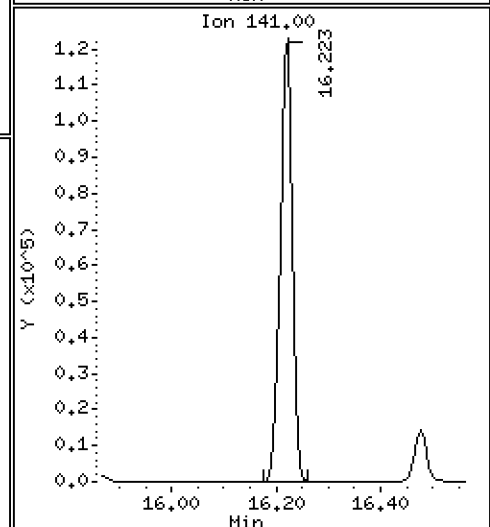
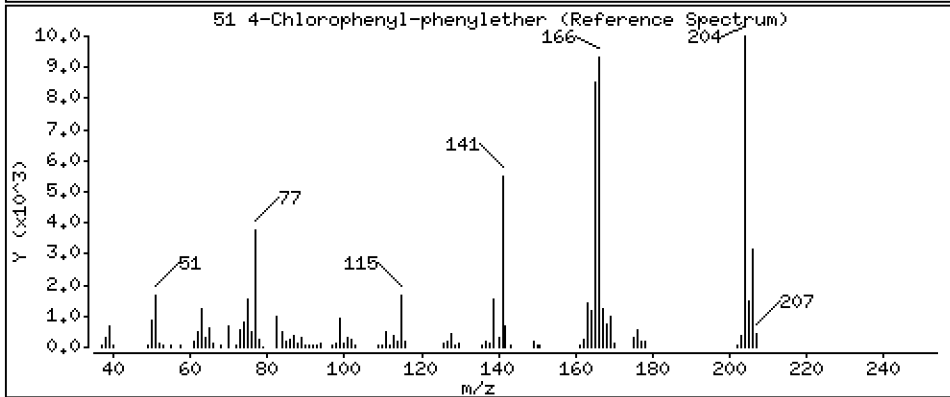
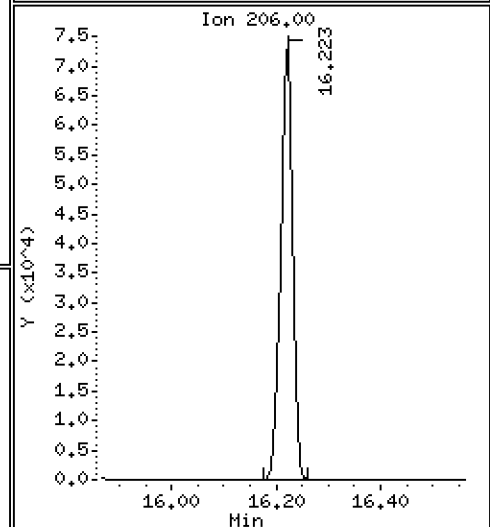
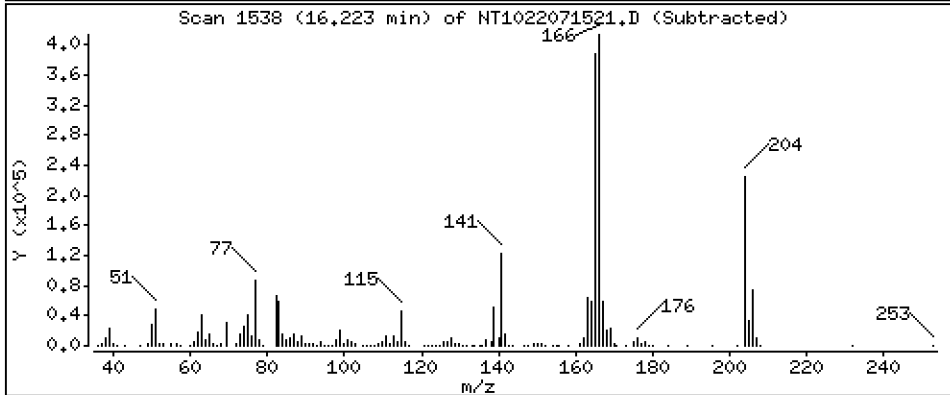
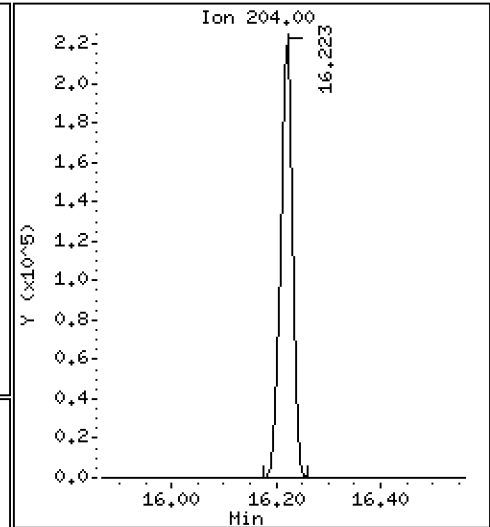
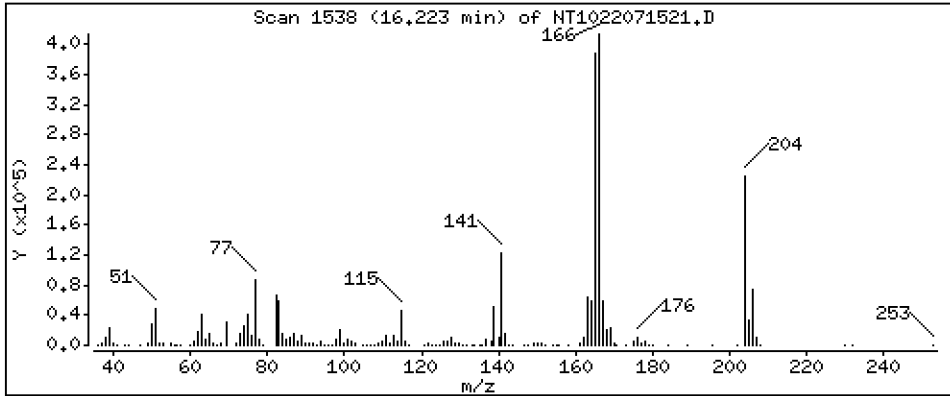
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,290 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

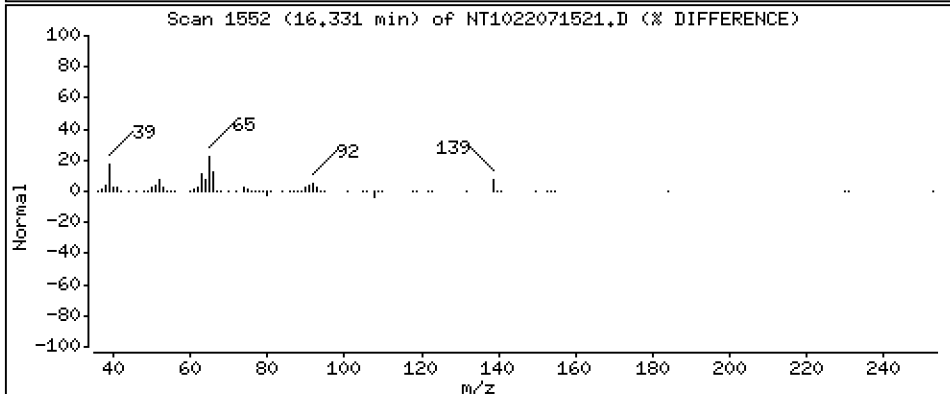
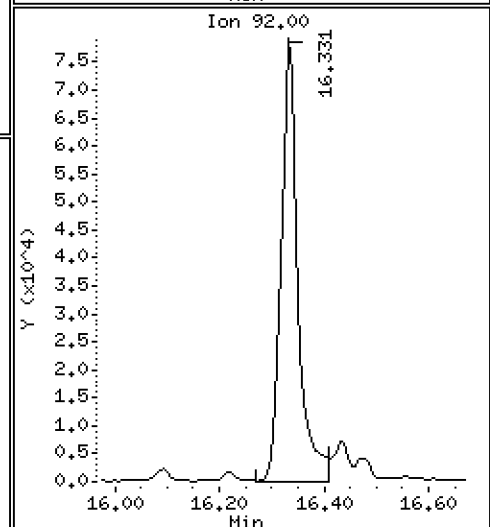
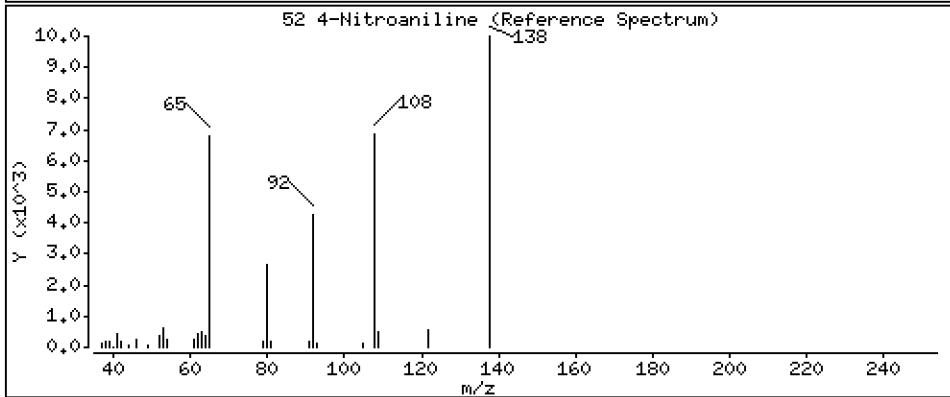
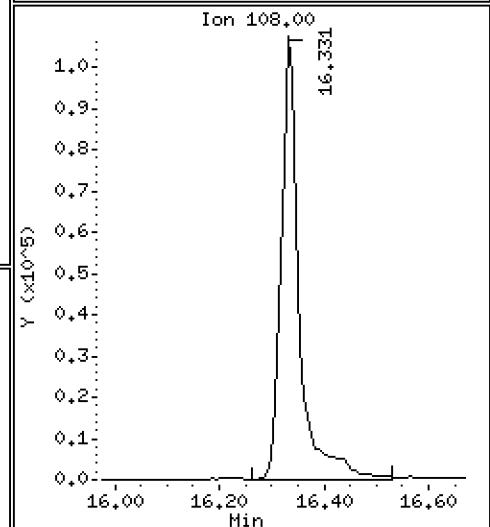
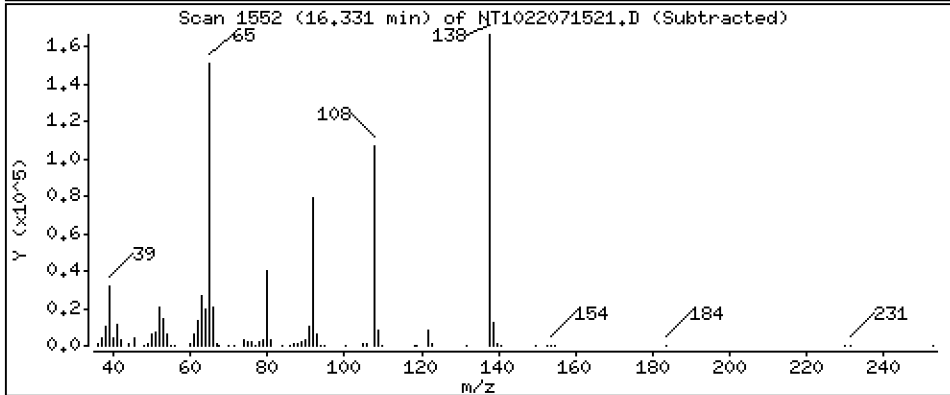
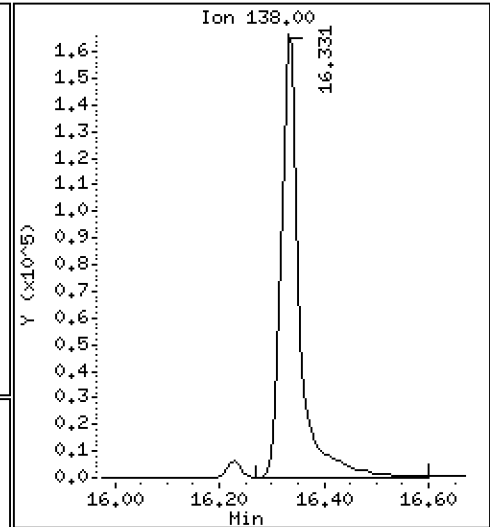
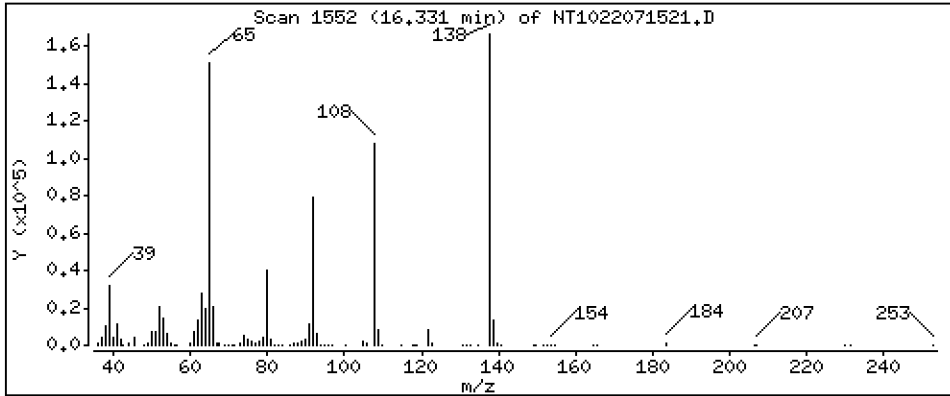
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 12,36 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

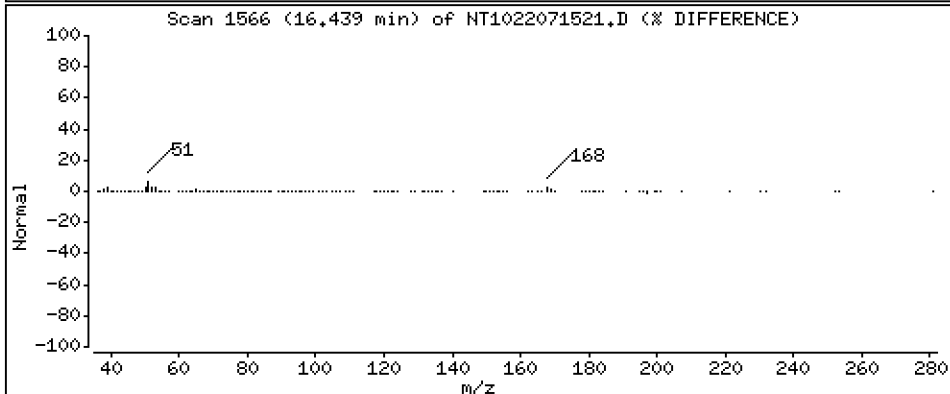
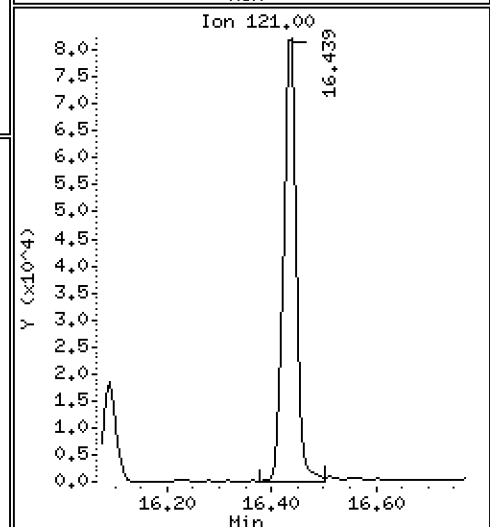
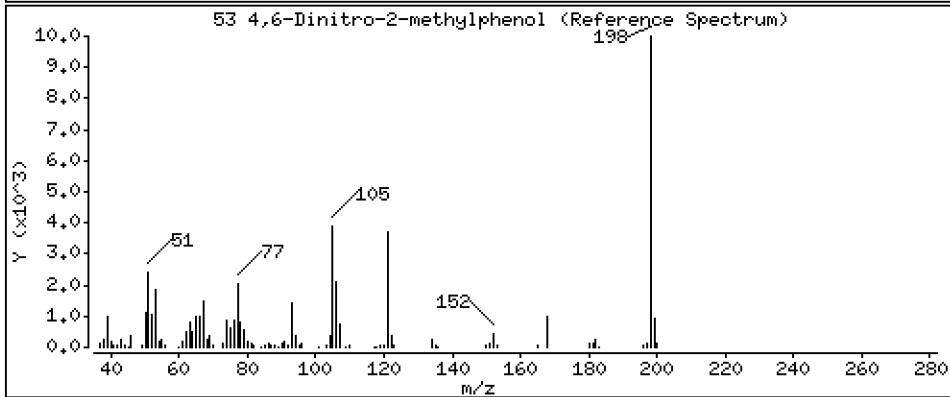
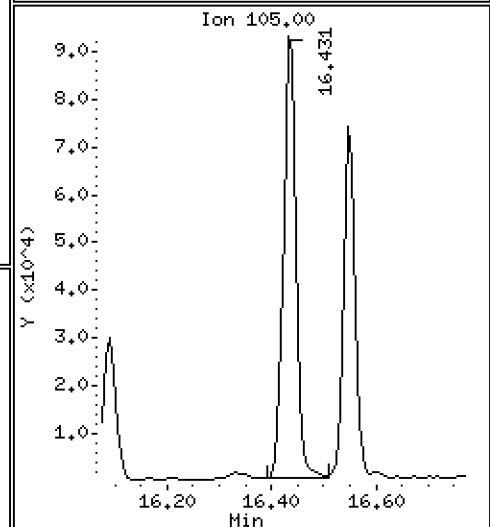
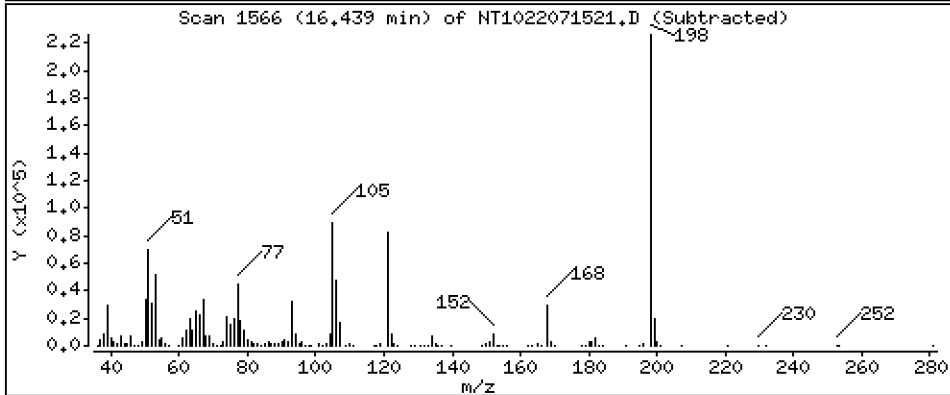
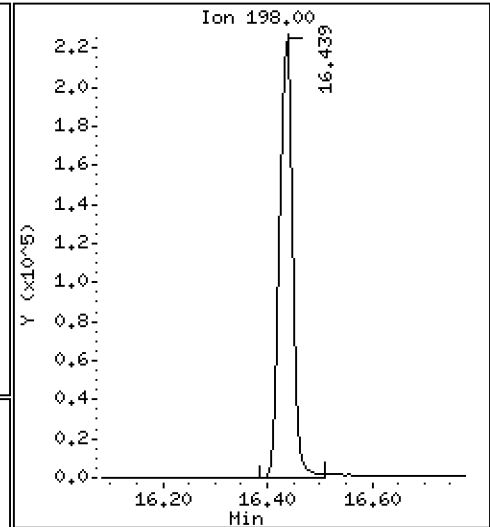
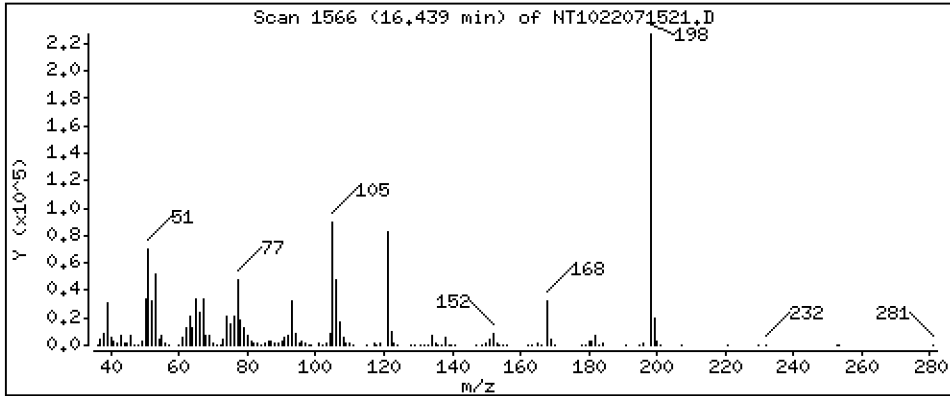
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 16,29 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

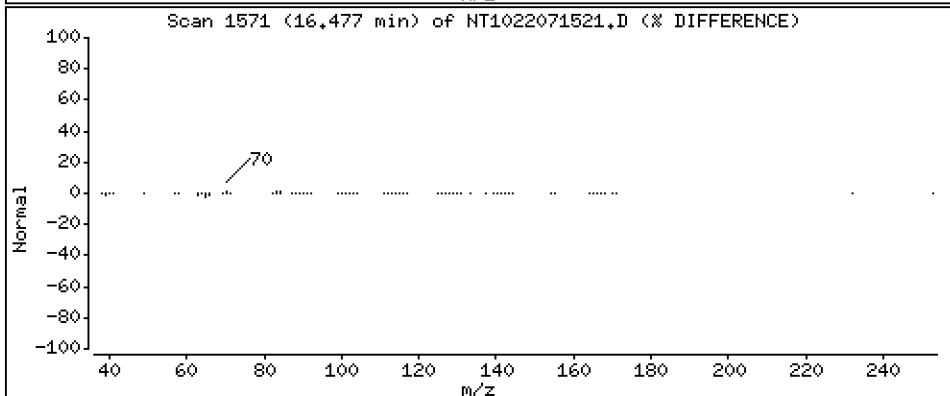
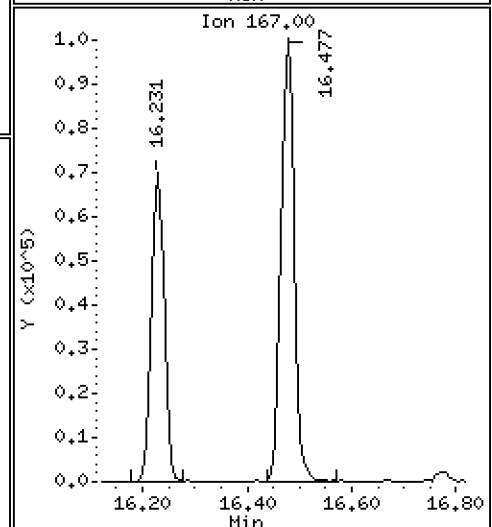
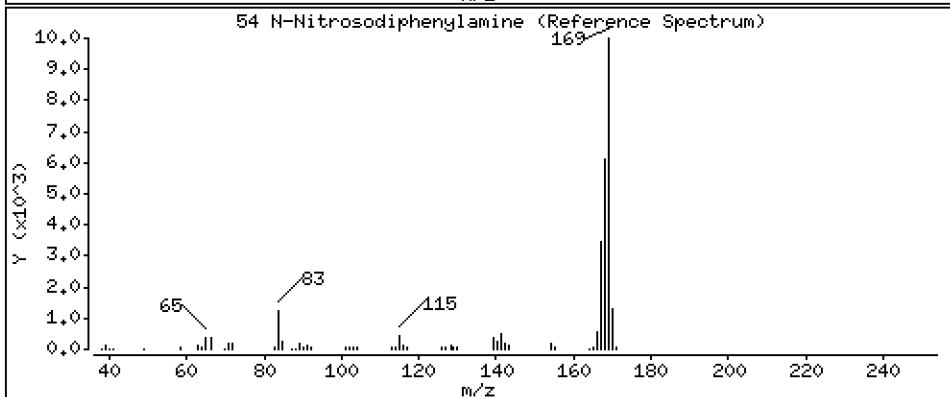
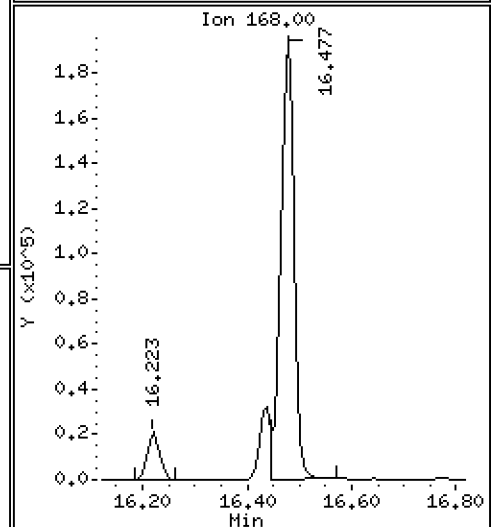
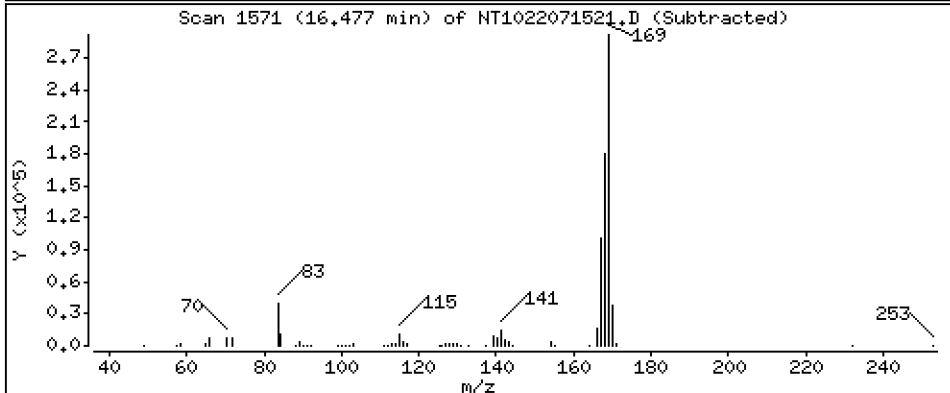
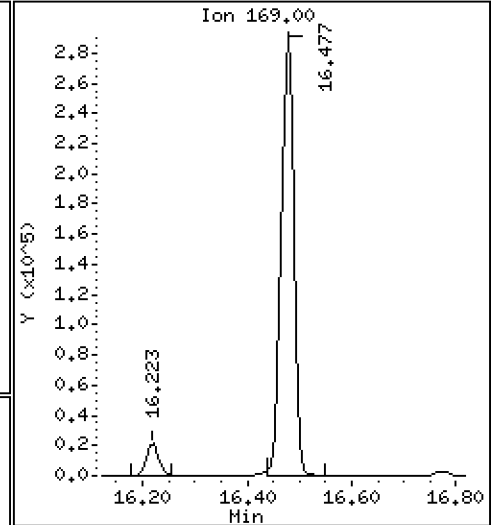
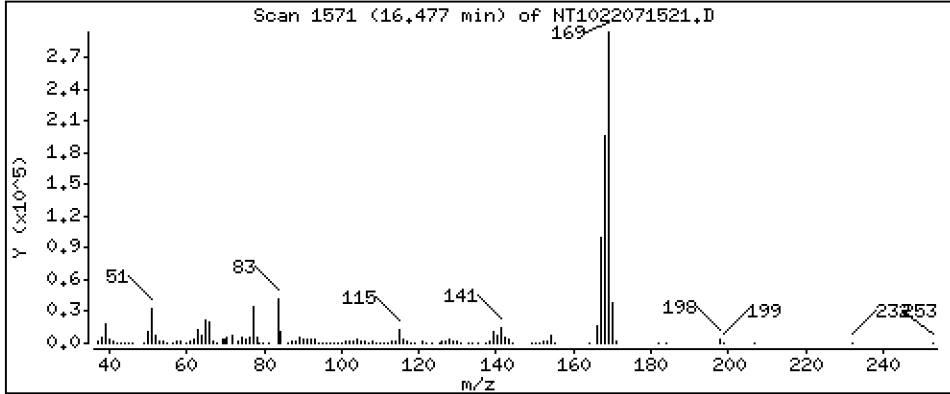
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 5,125 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

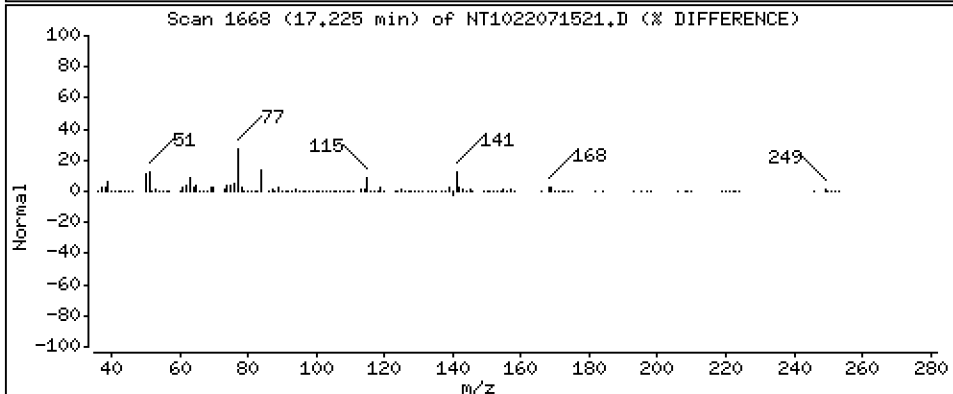
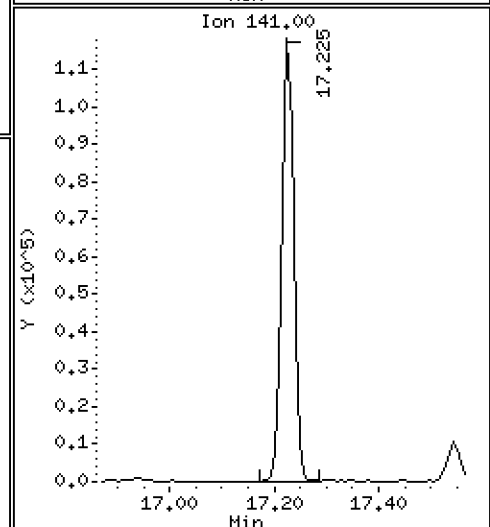
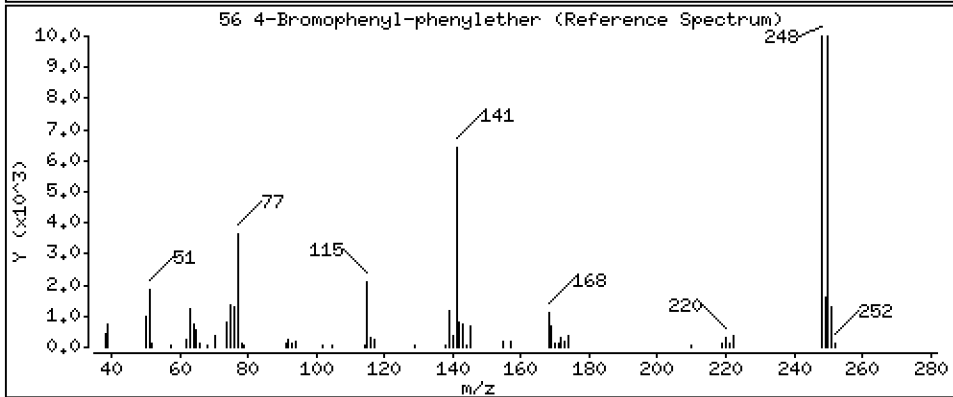
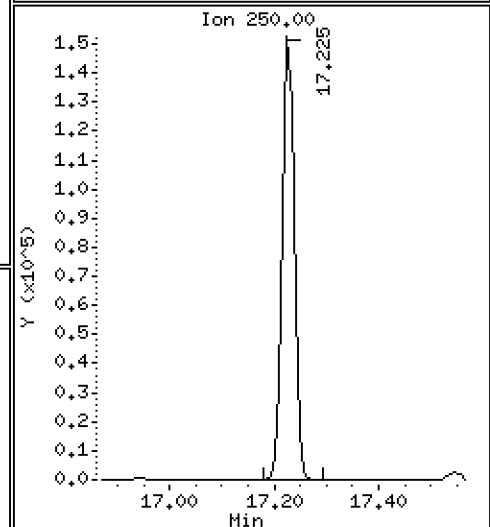
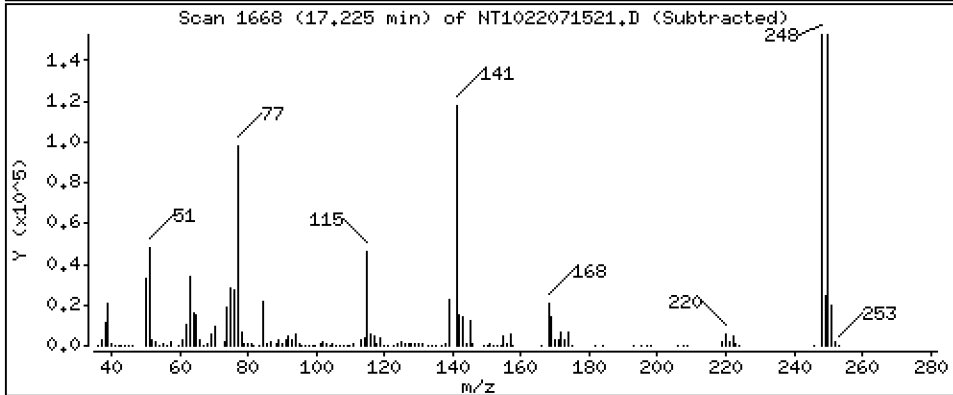
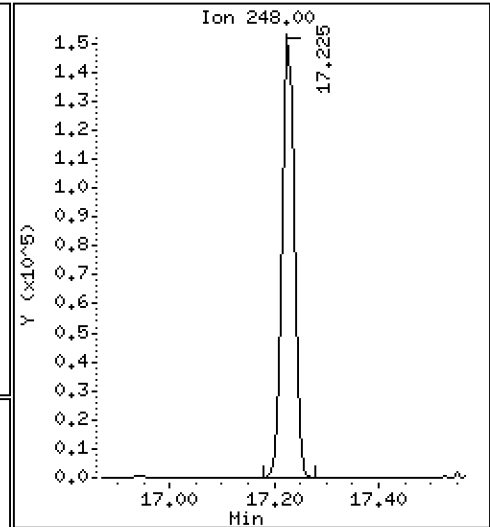
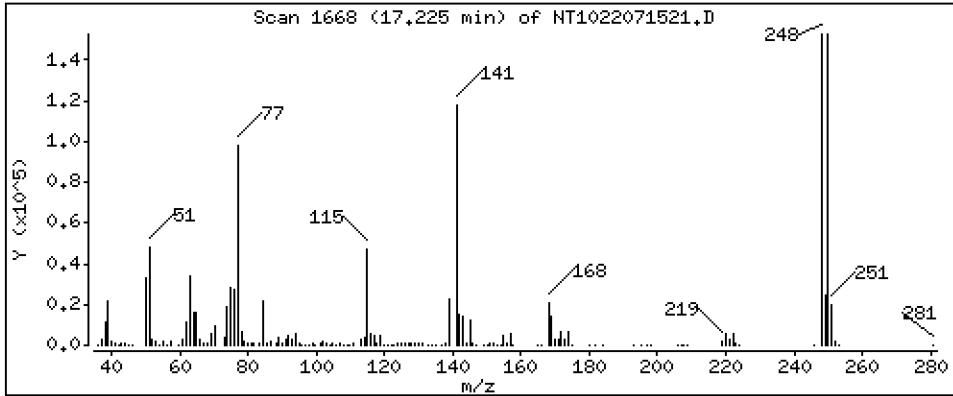
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,377 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

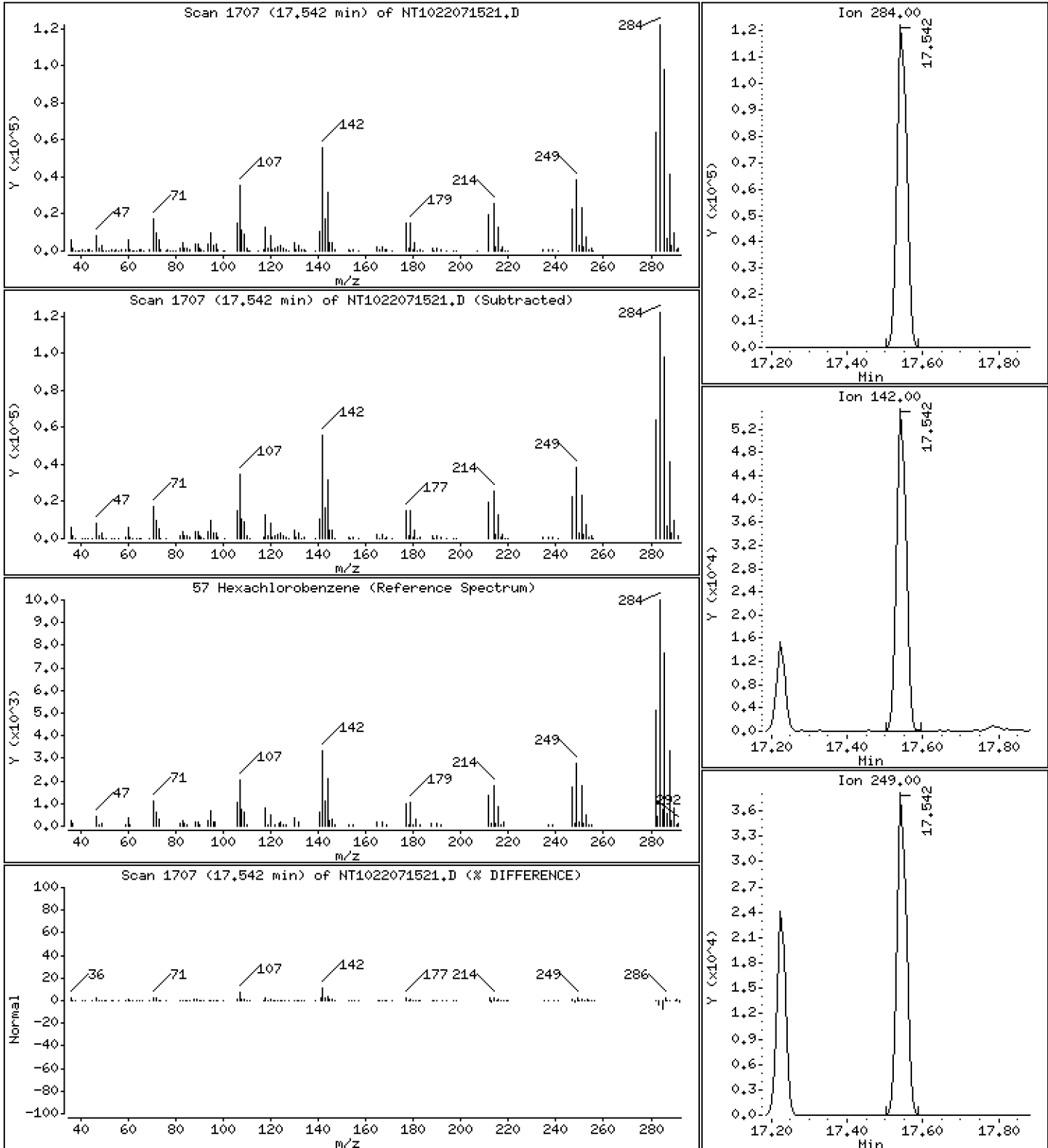
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 5,217 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

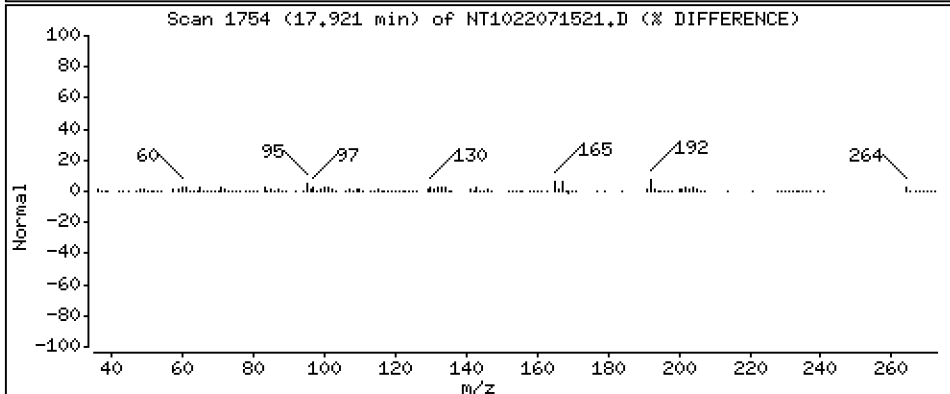
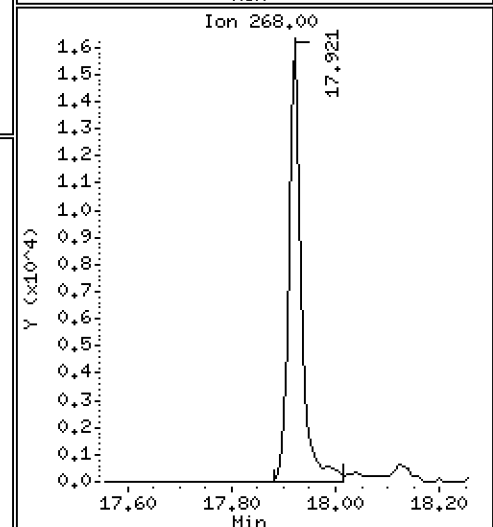
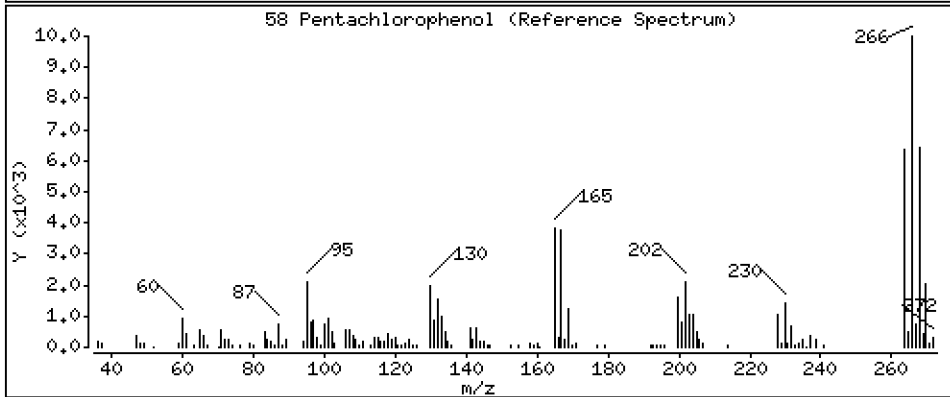
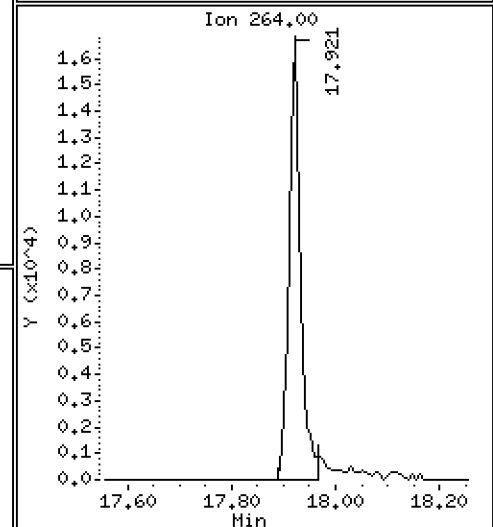
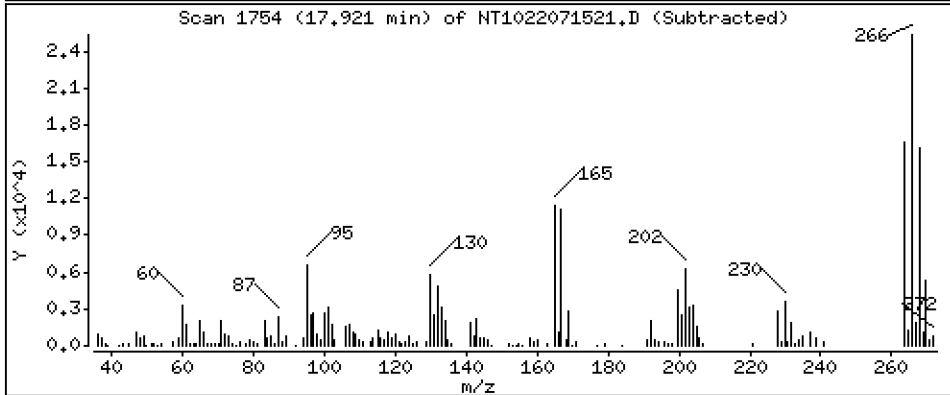
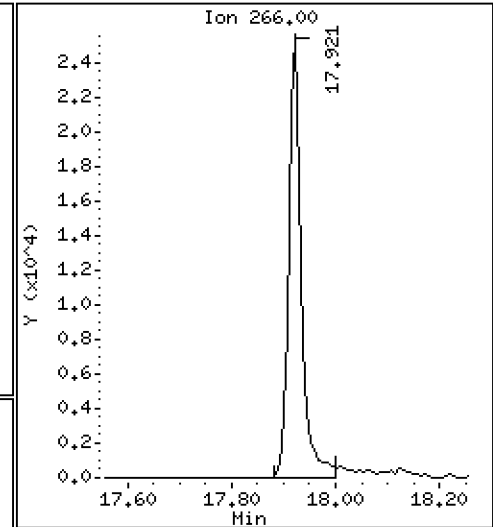
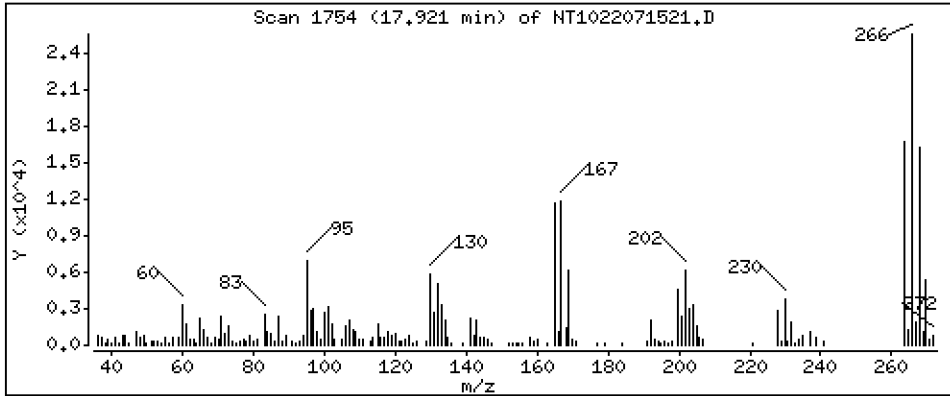
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,789 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

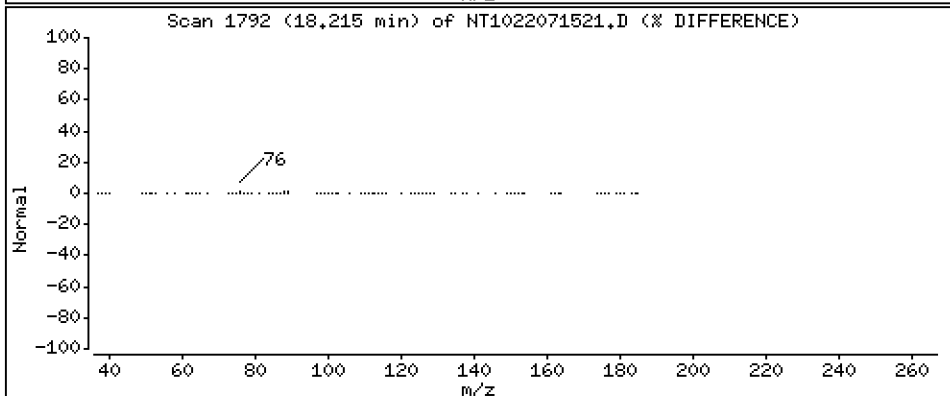
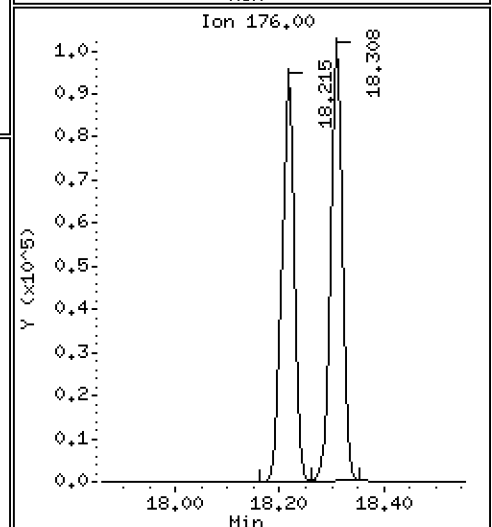
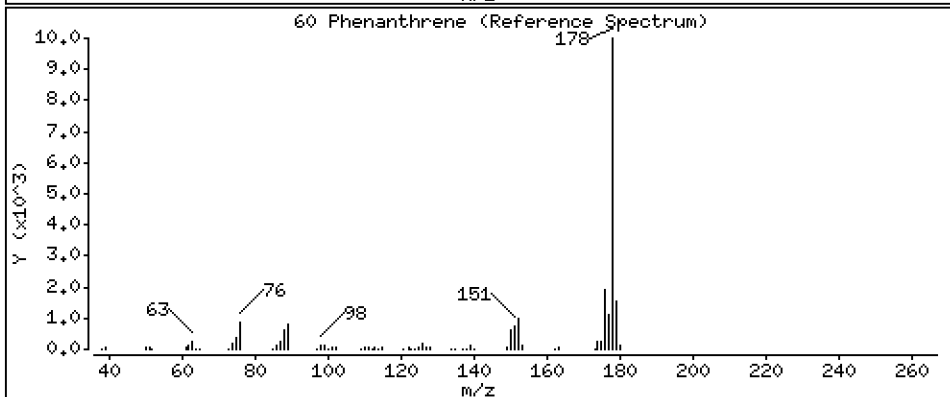
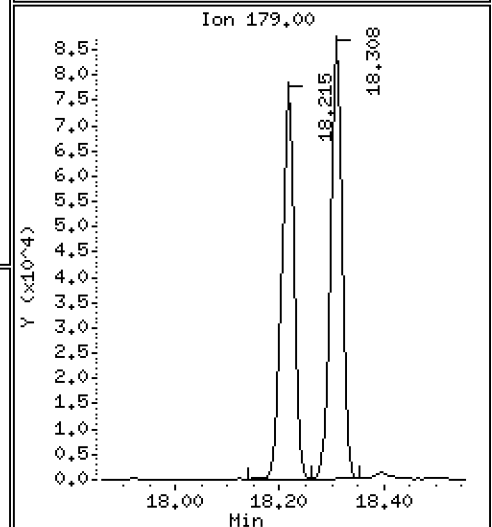
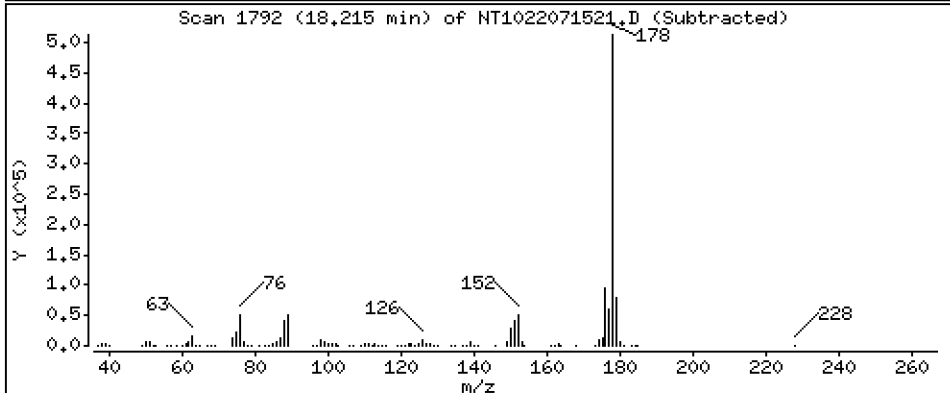
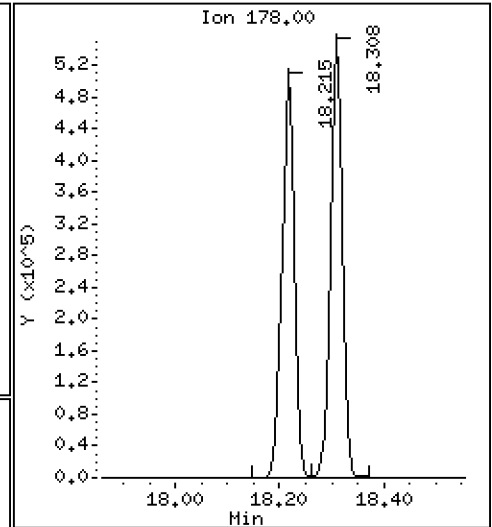
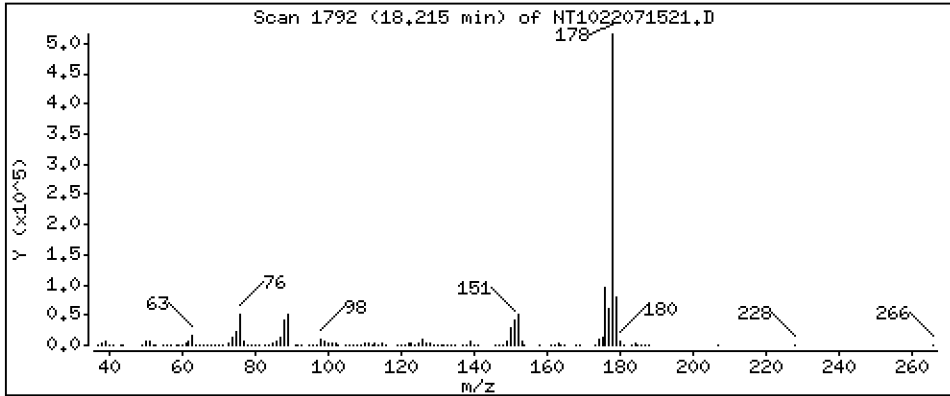
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 5,260 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

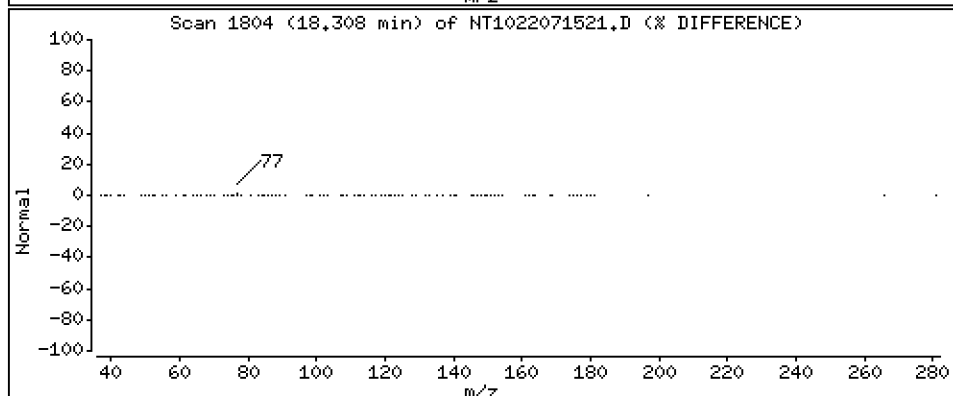
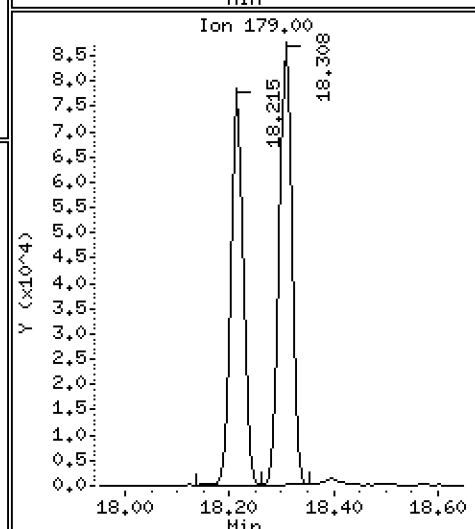
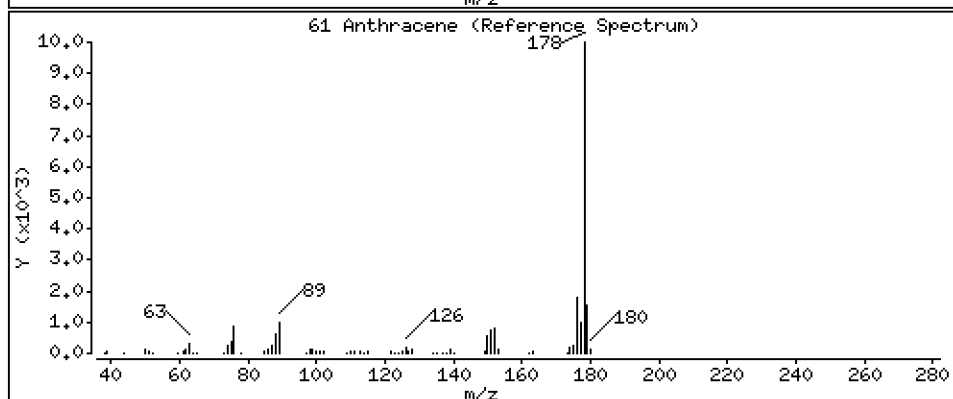
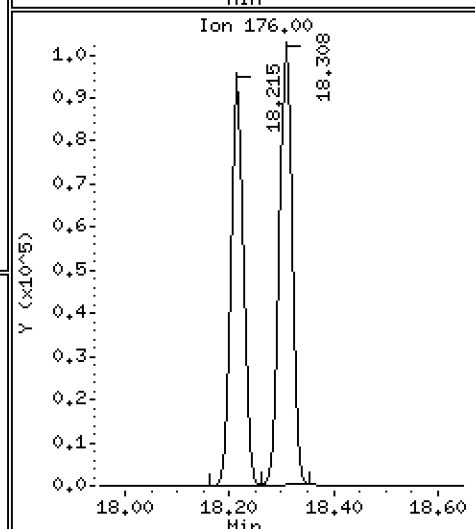
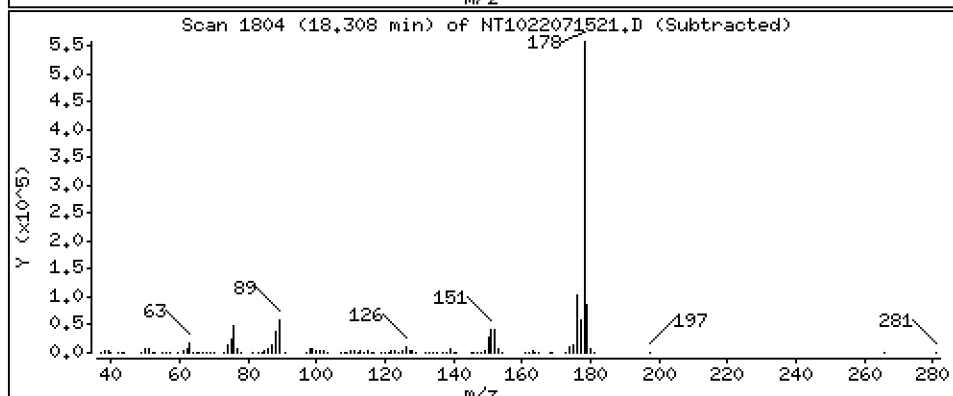
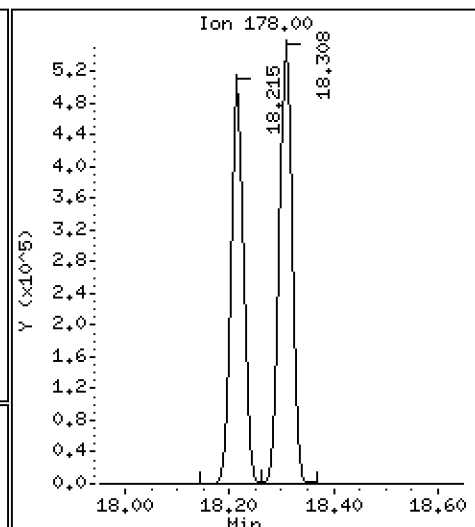
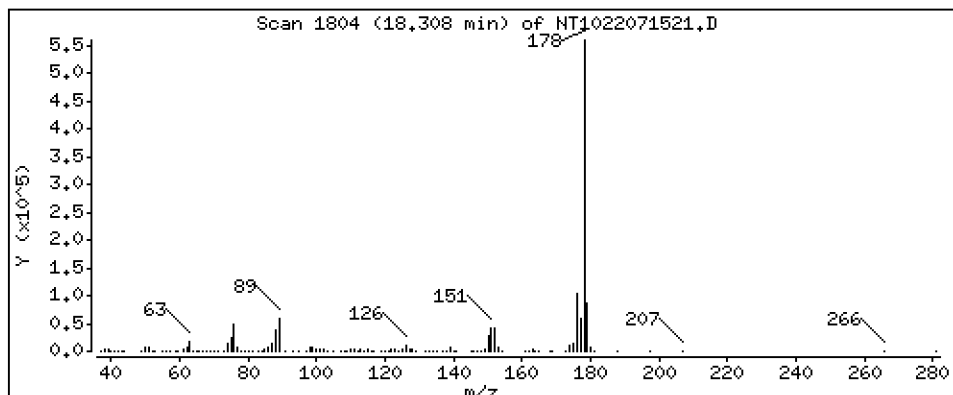
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 5,414 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

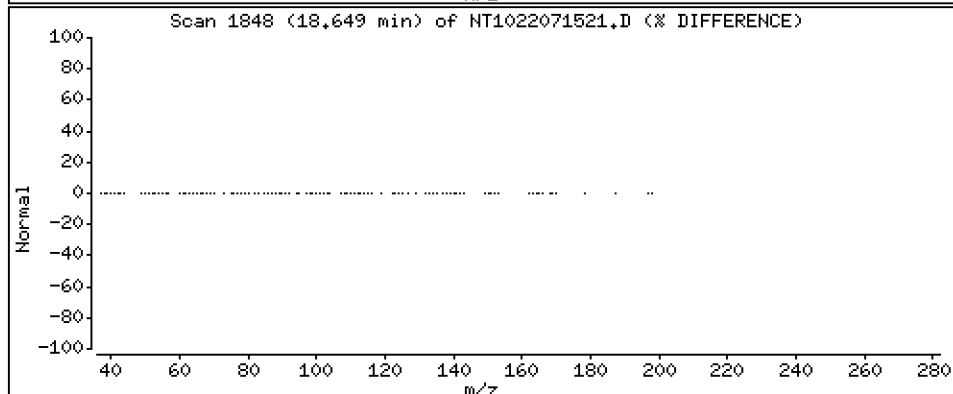
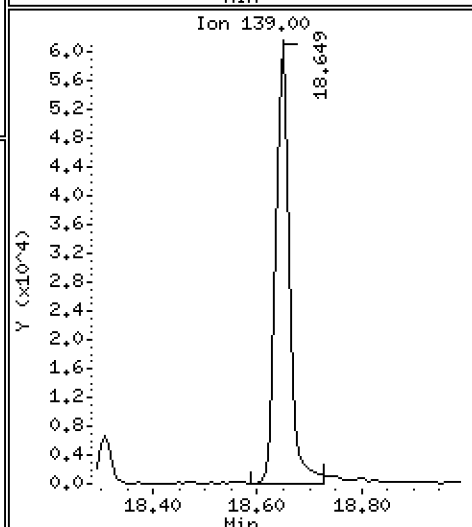
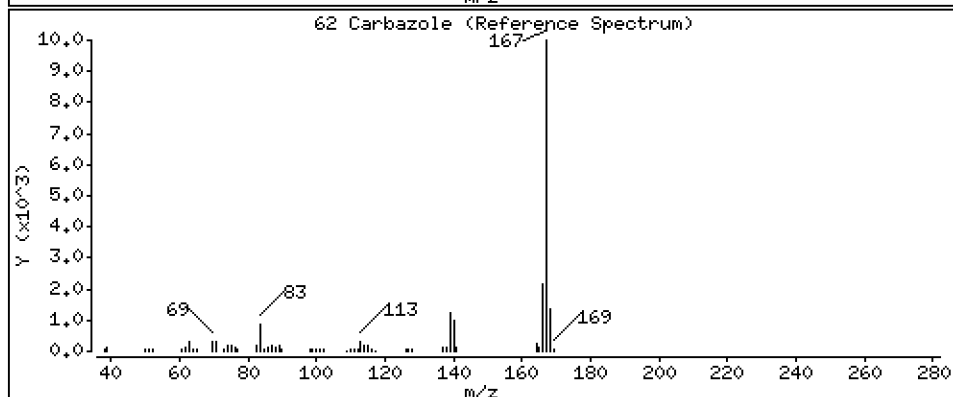
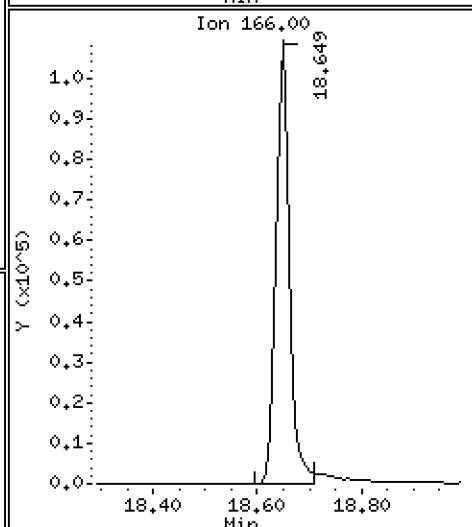
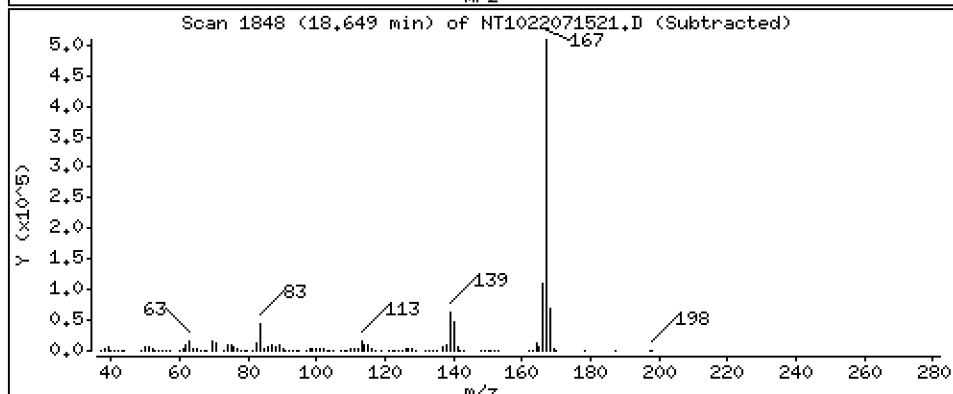
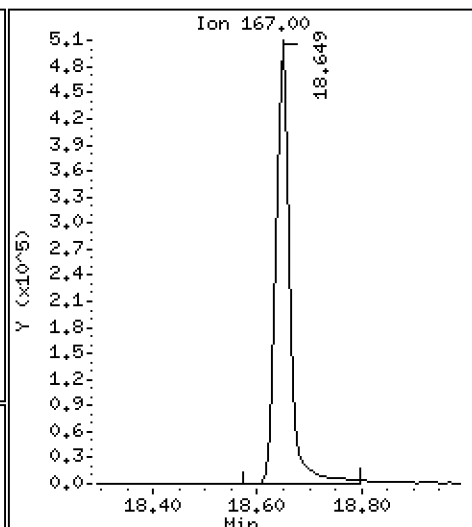
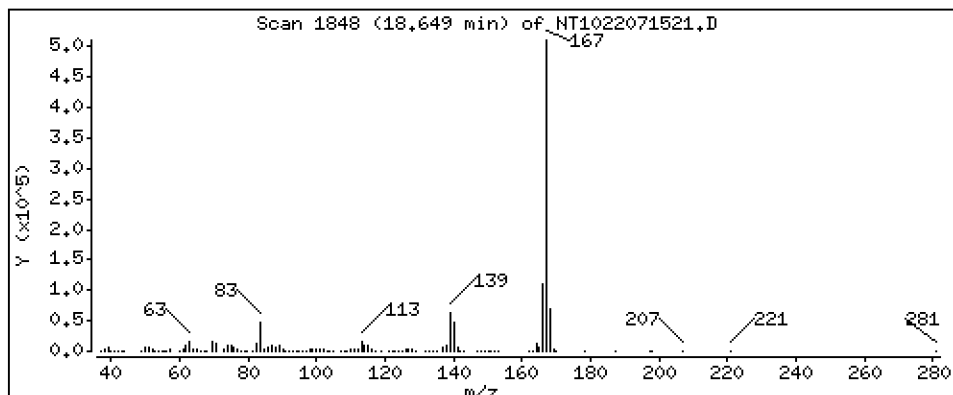
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 6,005 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

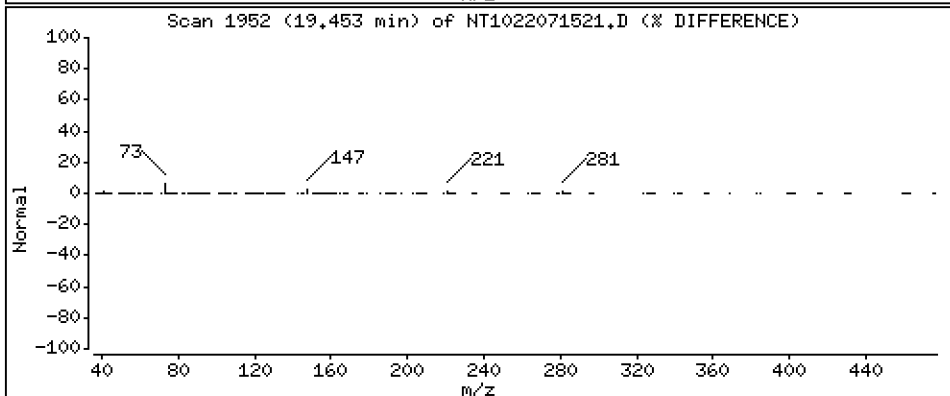
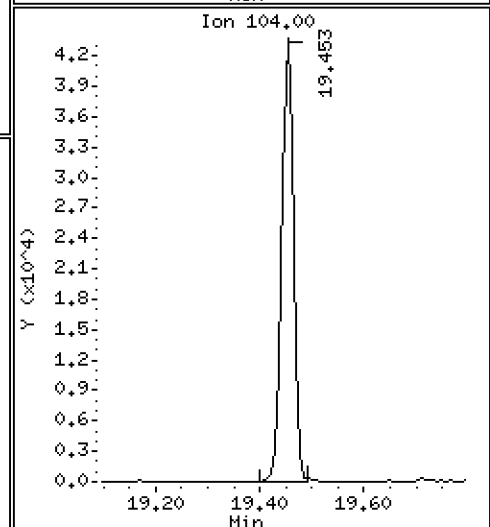
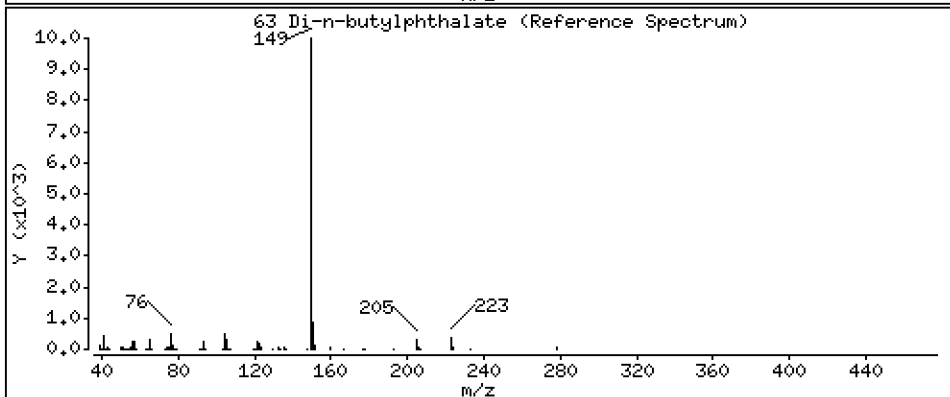
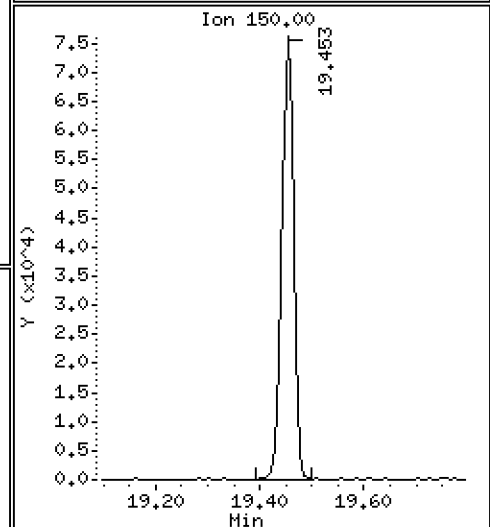
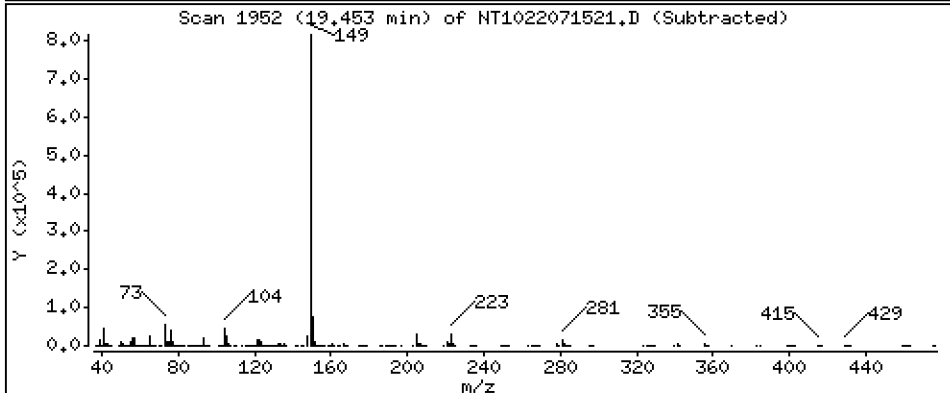
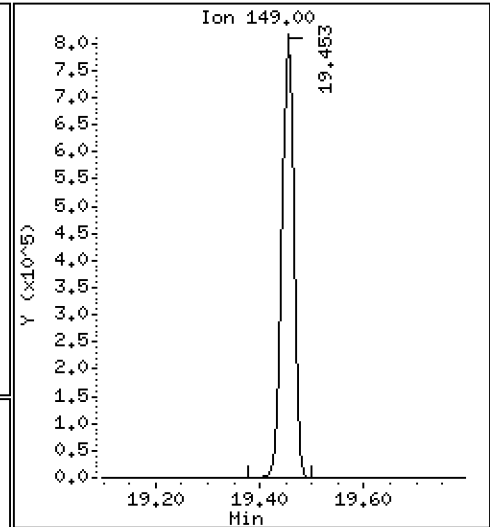
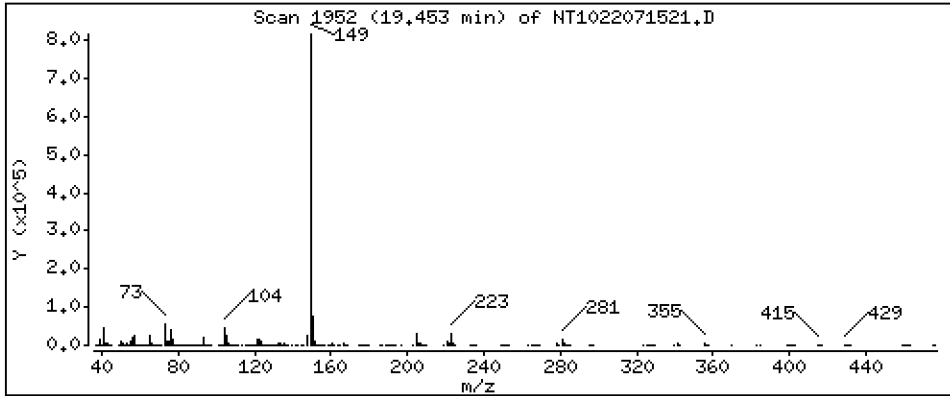
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,133 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

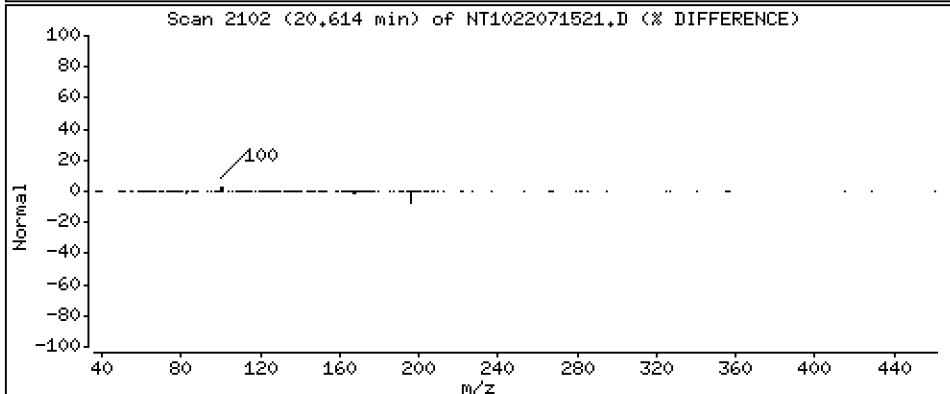
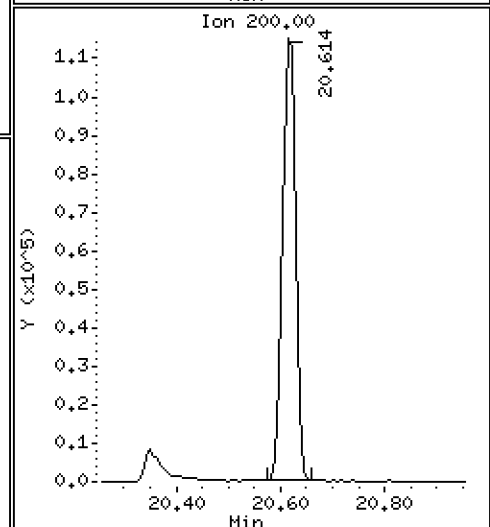
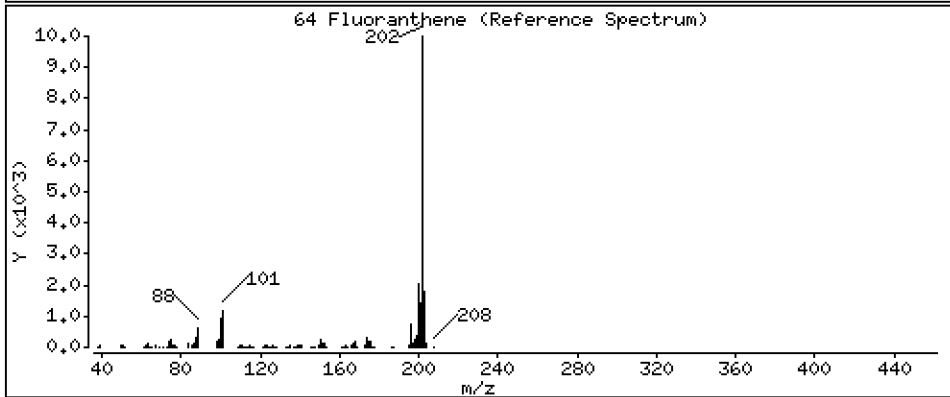
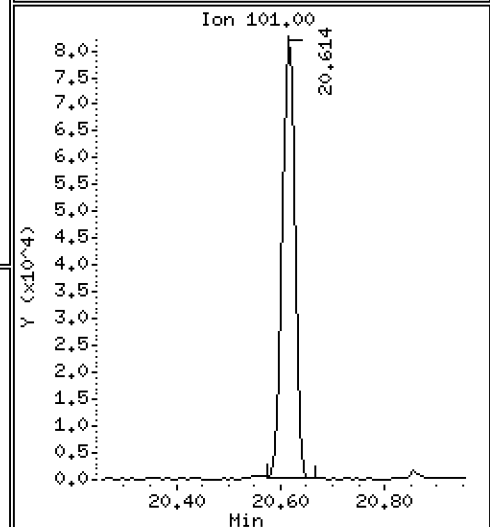
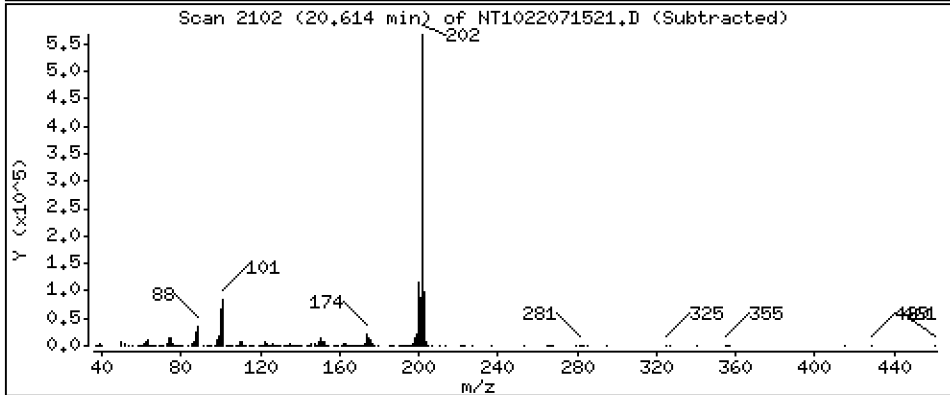
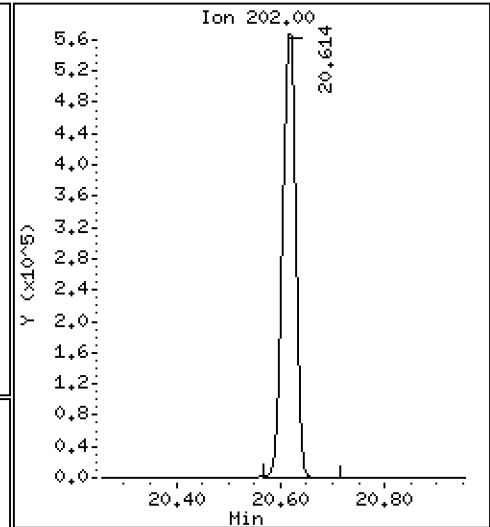
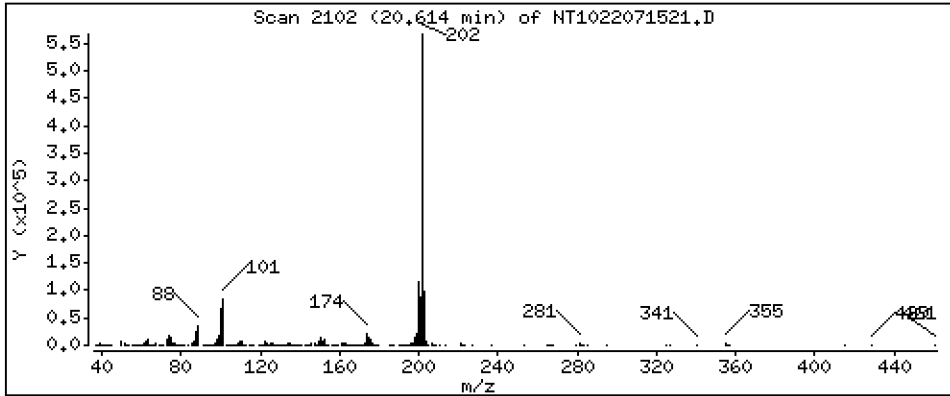
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 6,583 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

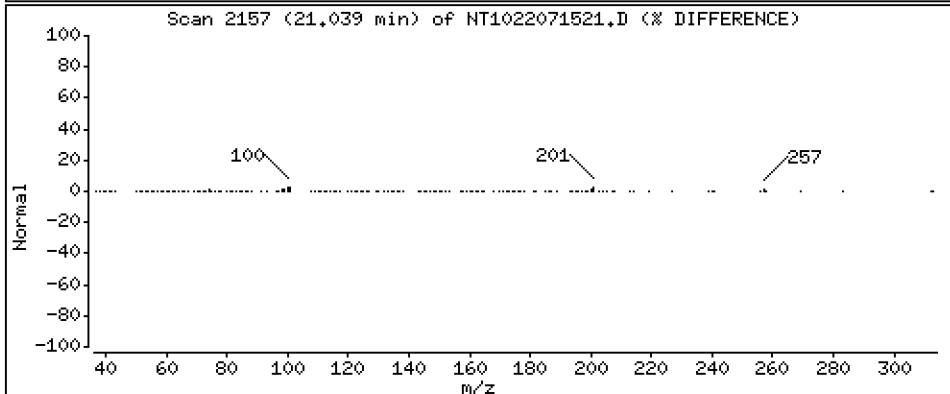
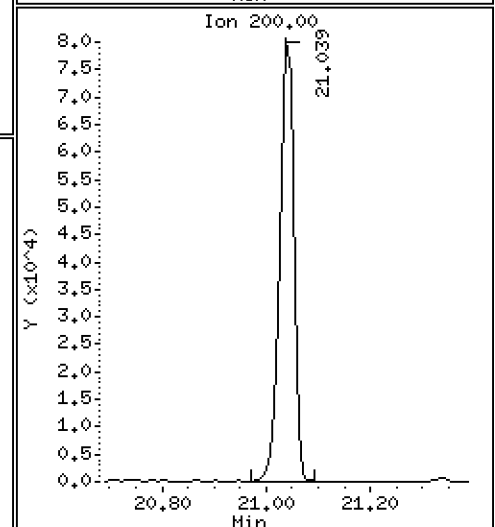
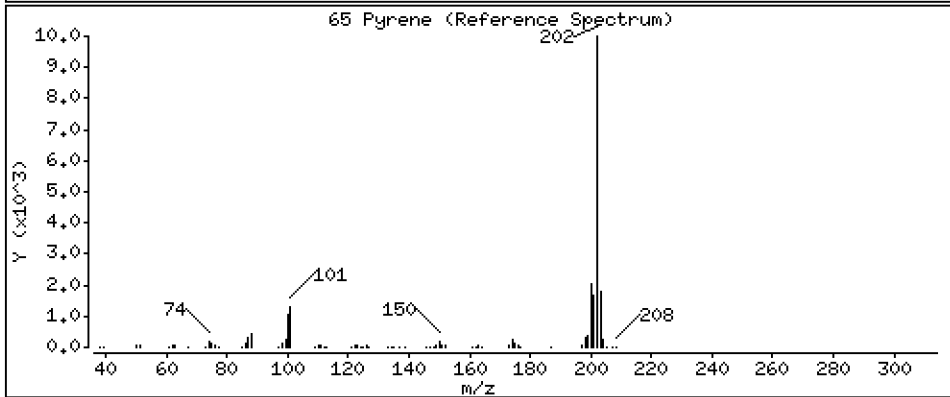
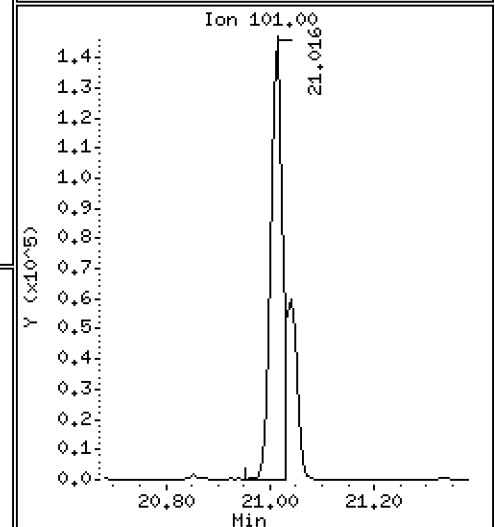
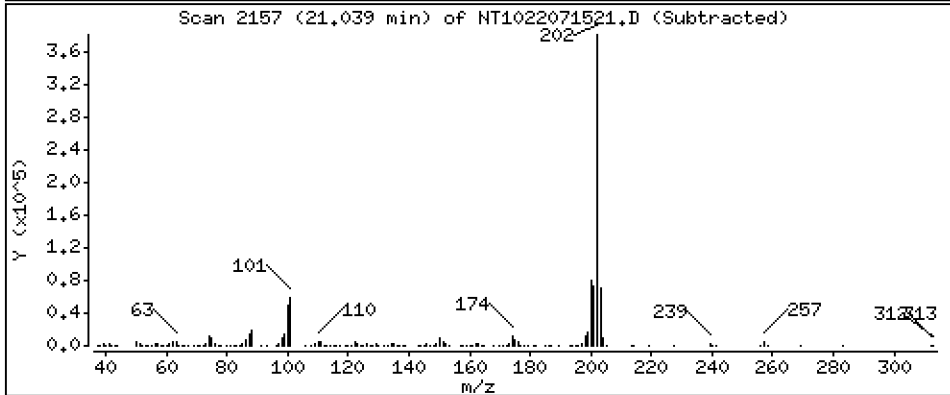
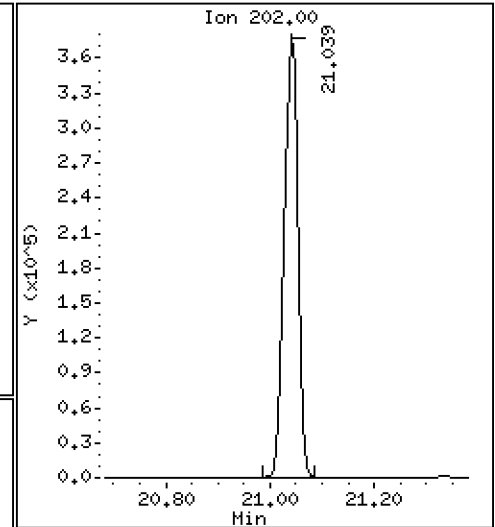
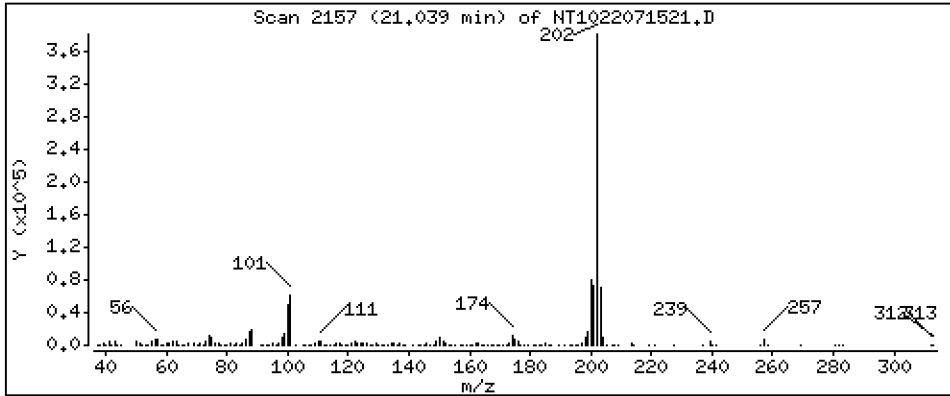
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 5,248 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

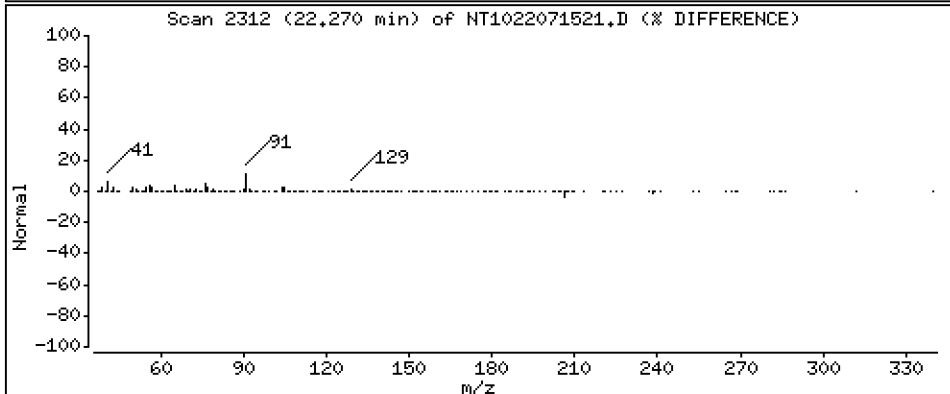
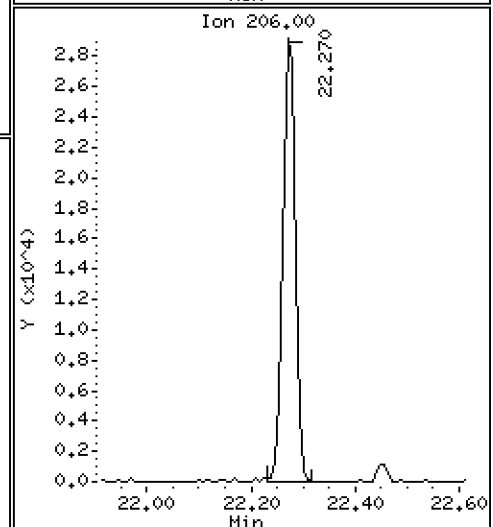
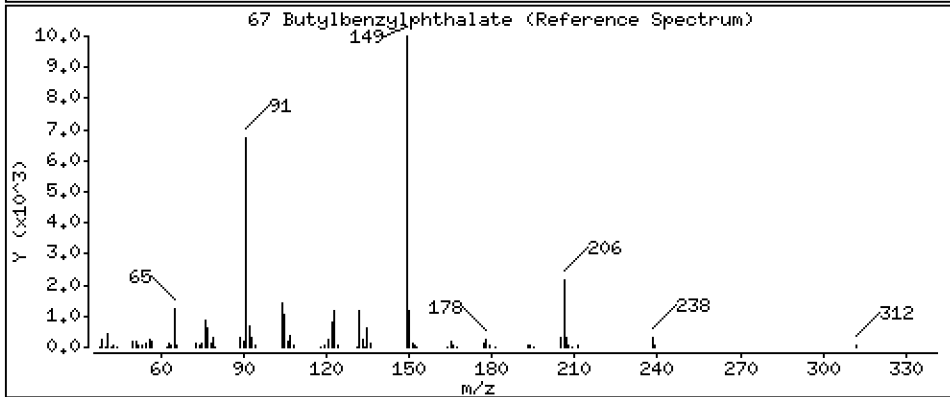
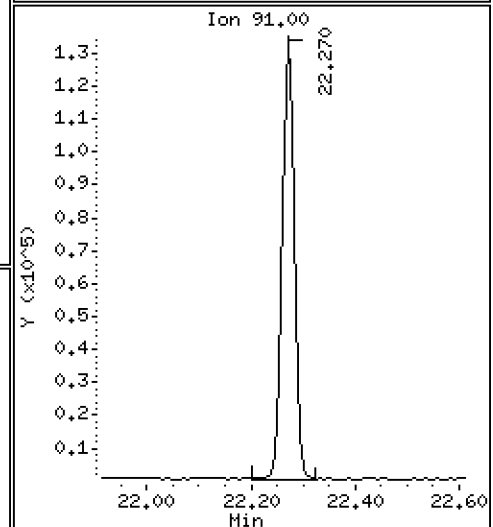
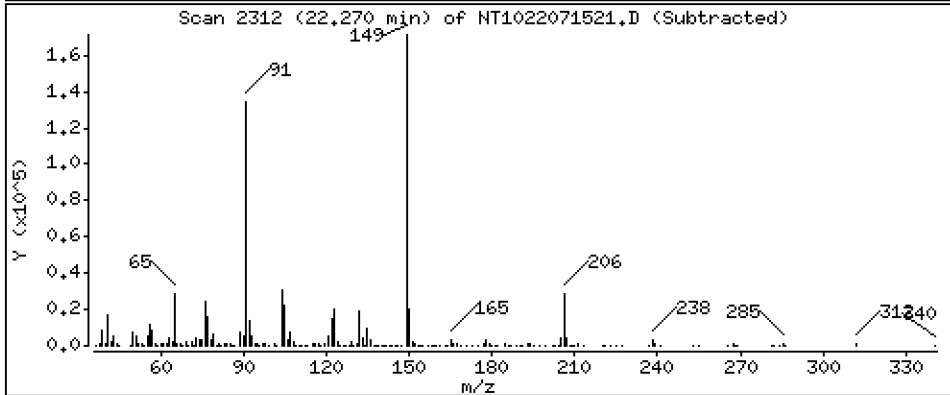
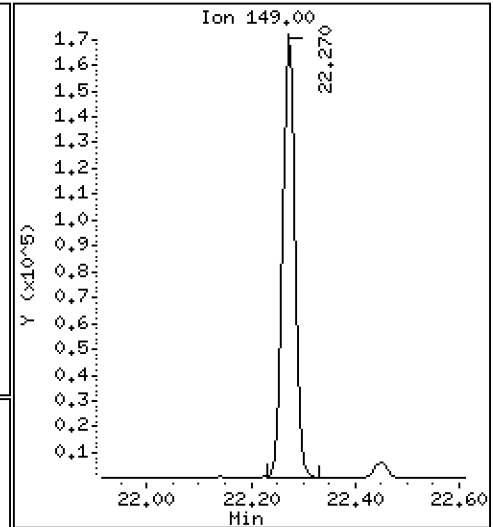
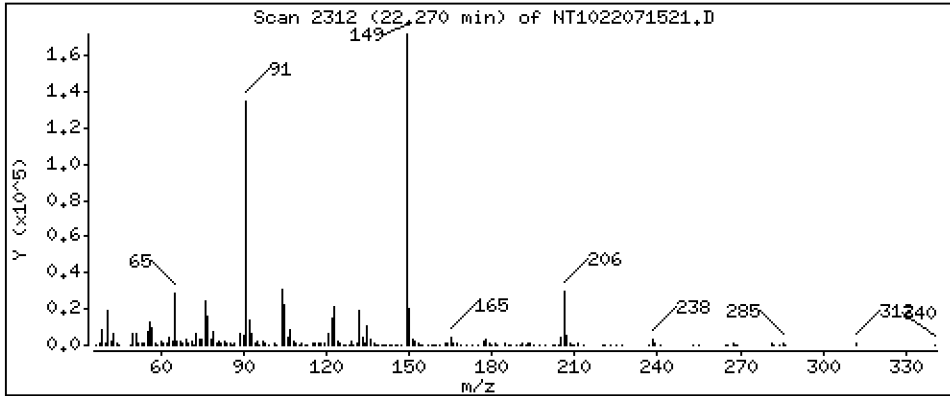
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 6,727 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

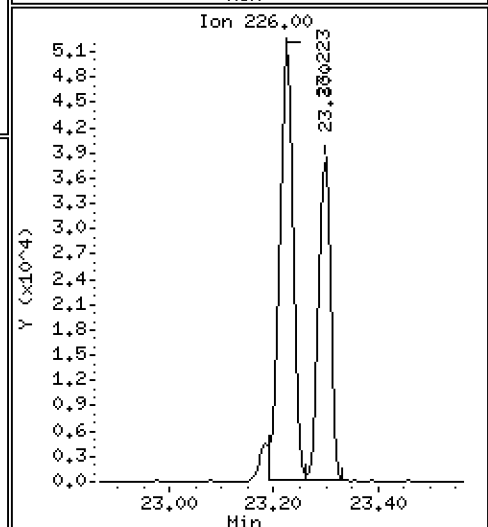
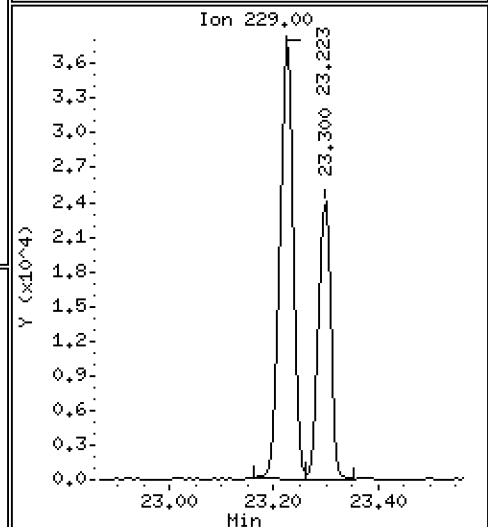
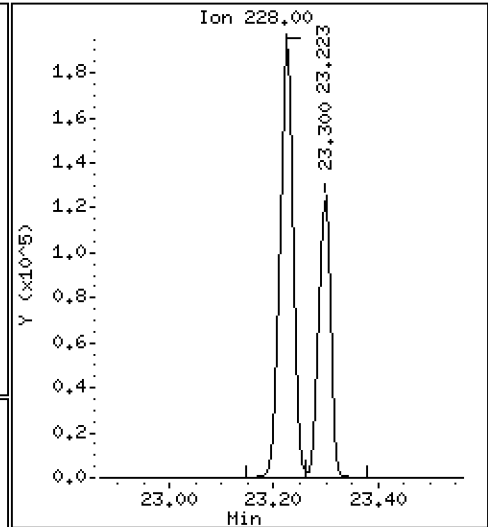
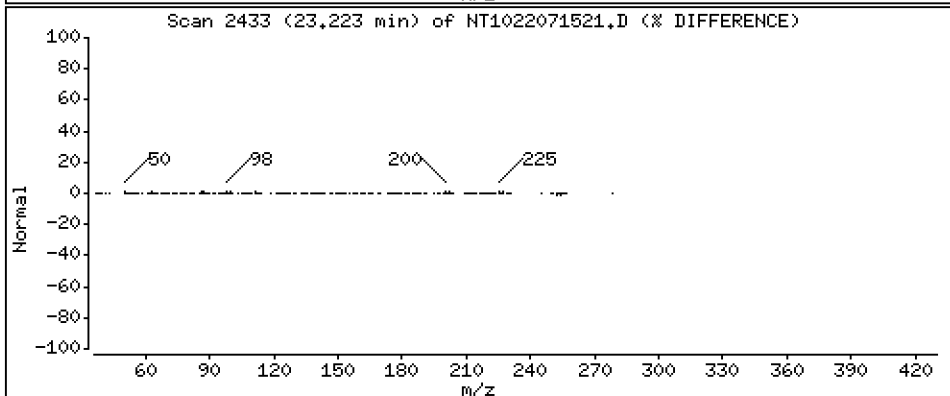
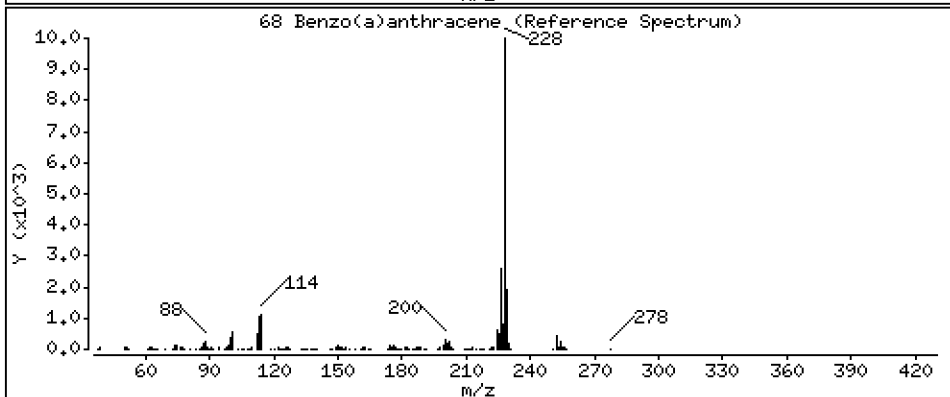
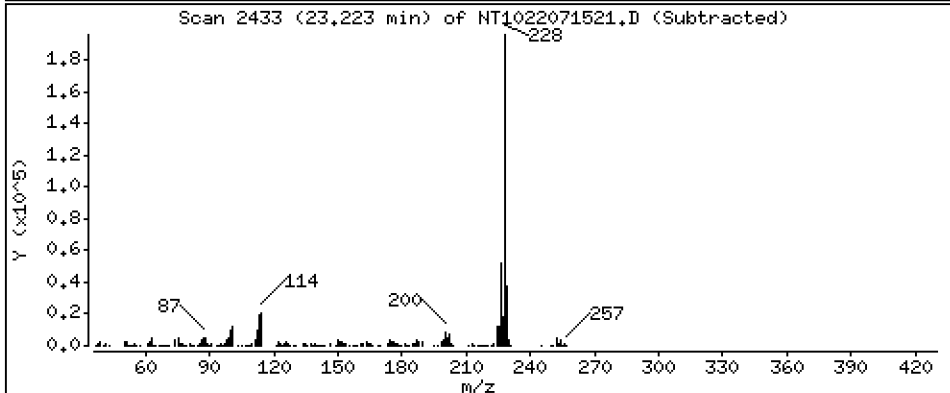
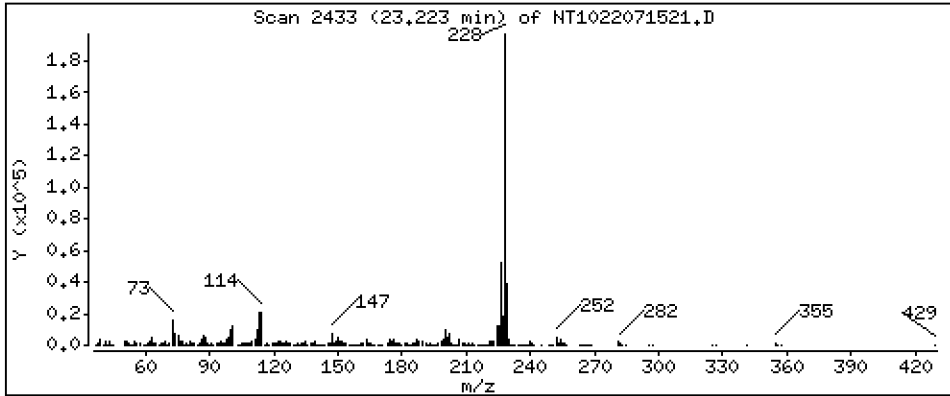
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,066 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

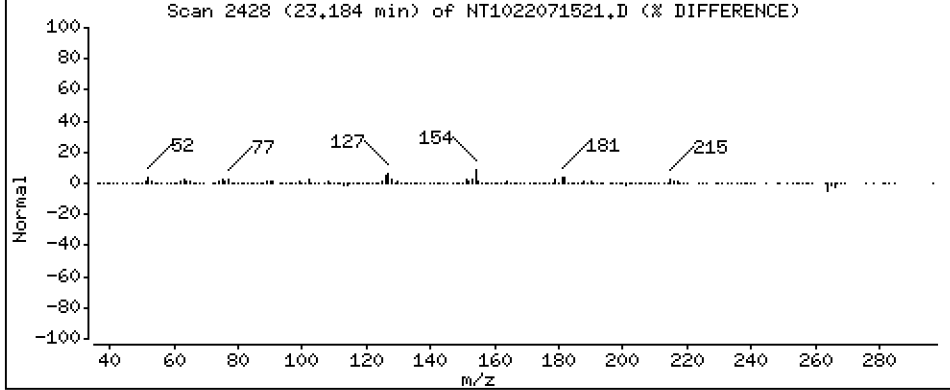
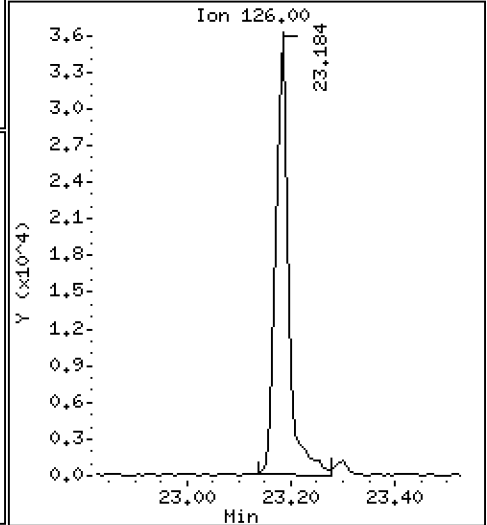
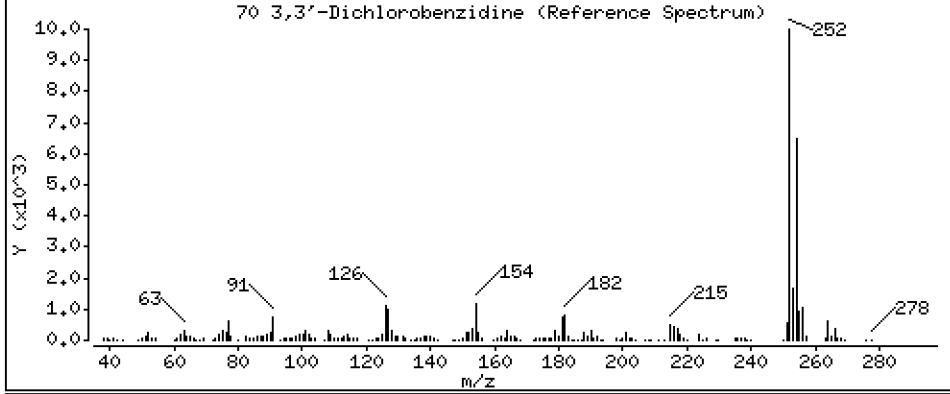
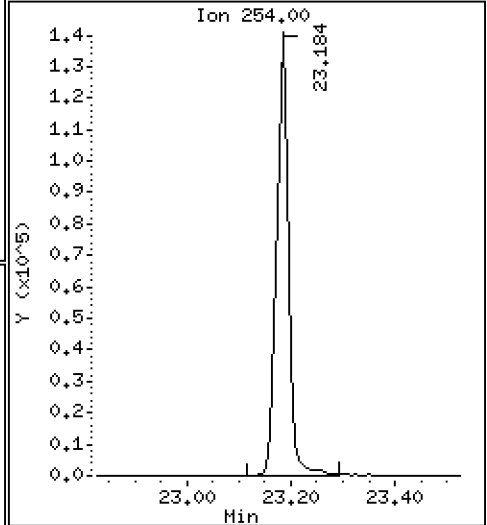
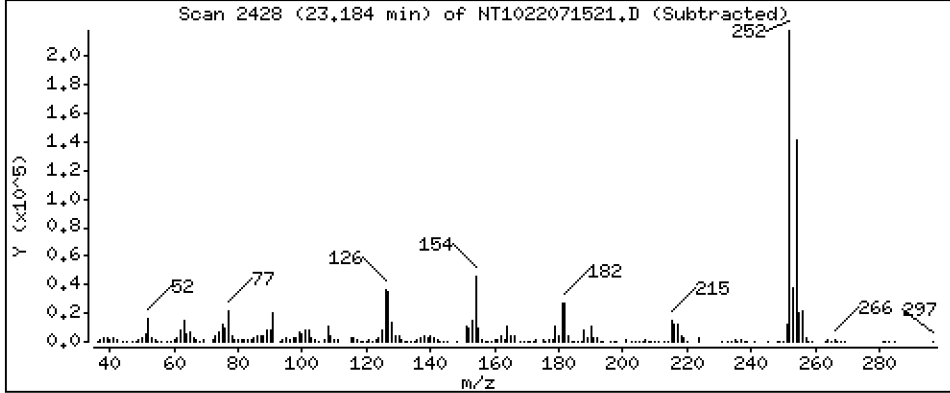
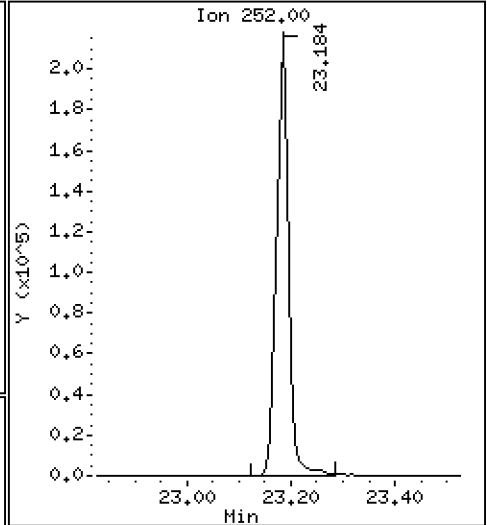
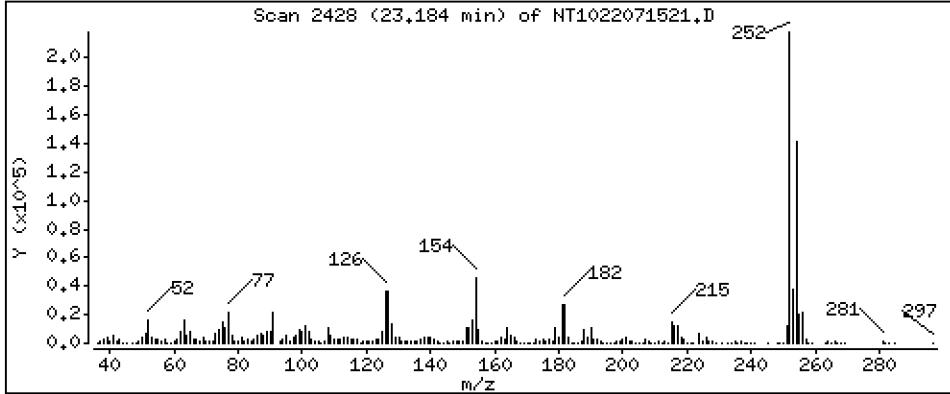
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 12,52 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

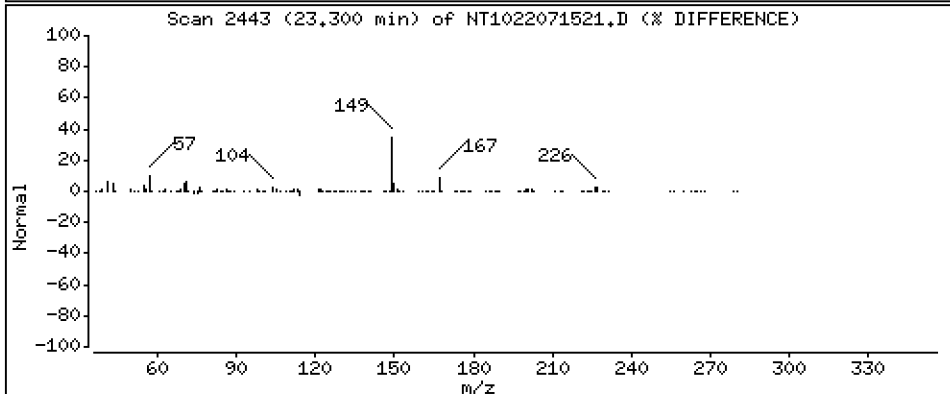
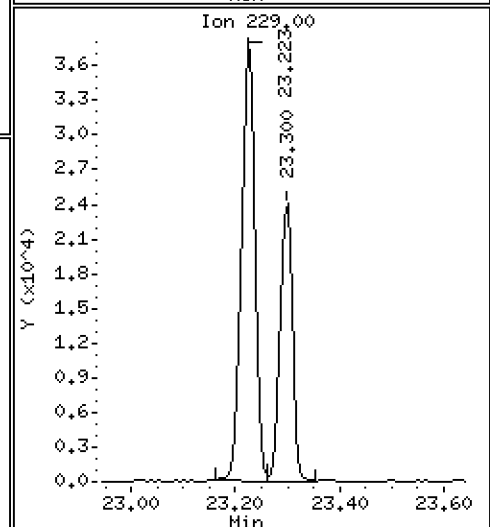
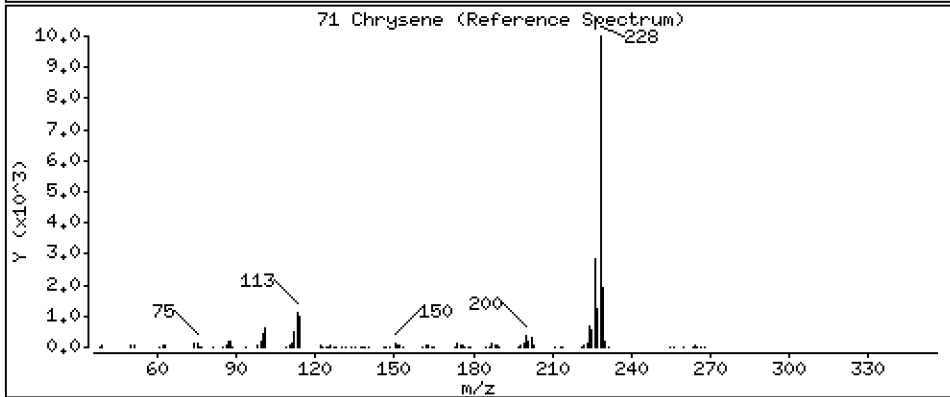
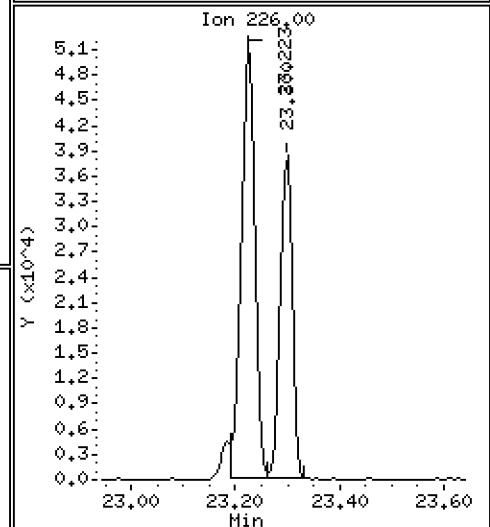
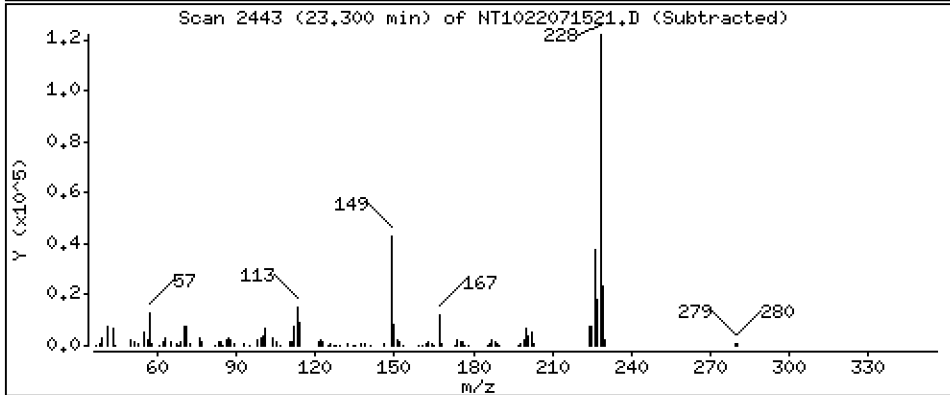
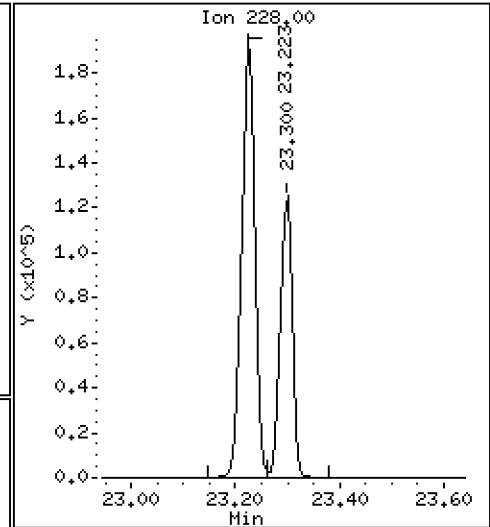
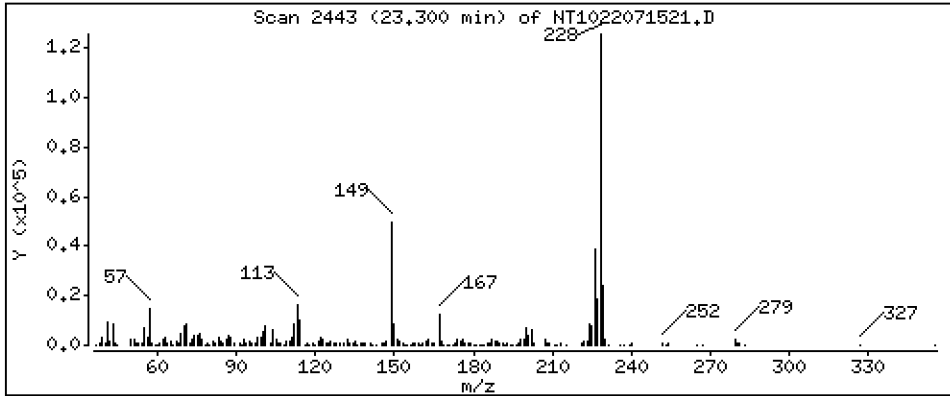
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 3,442 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

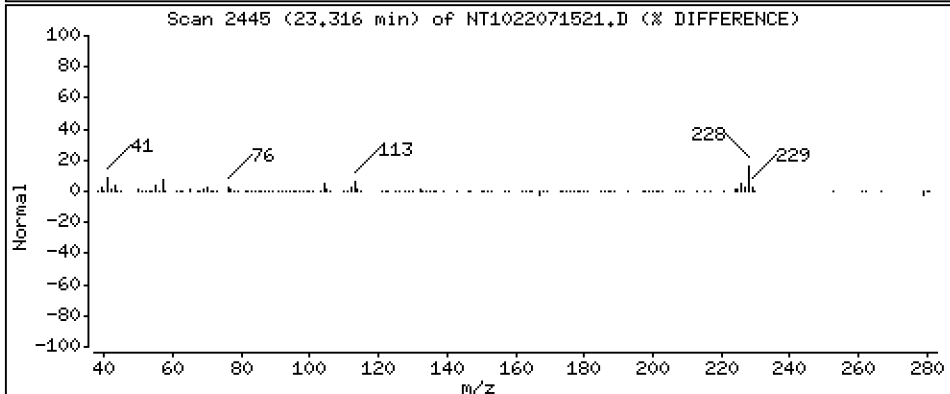
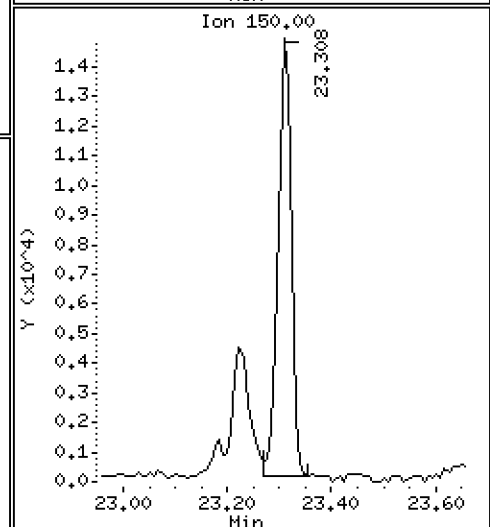
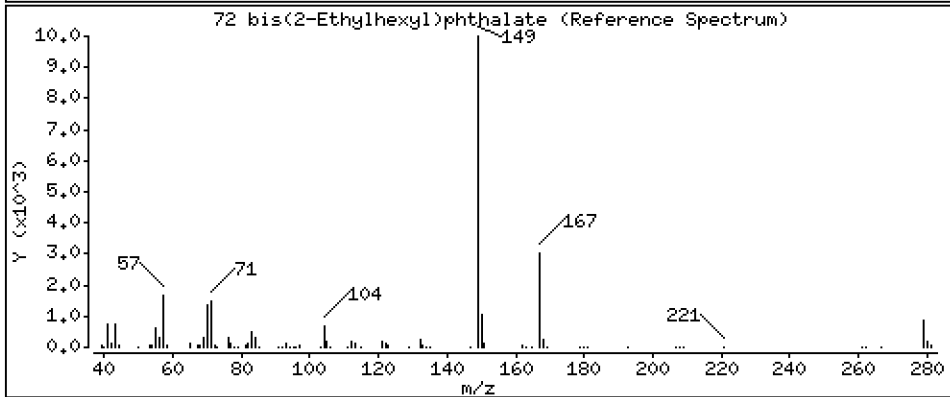
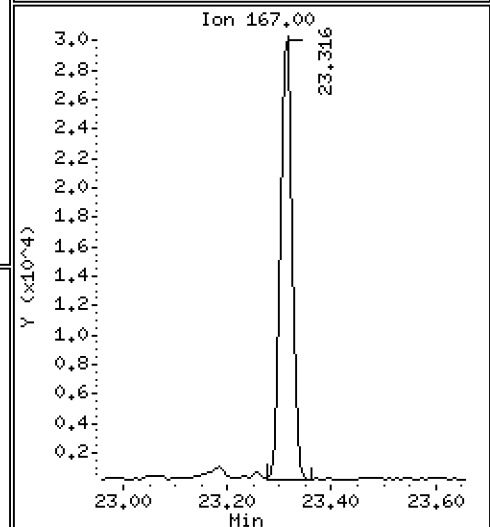
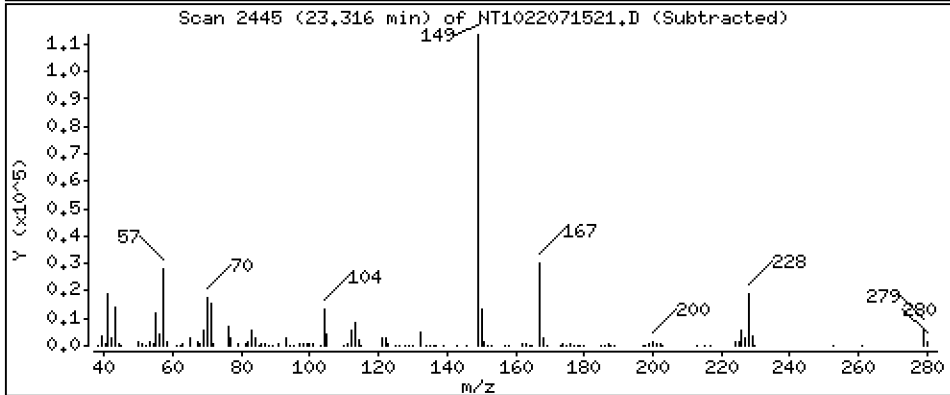
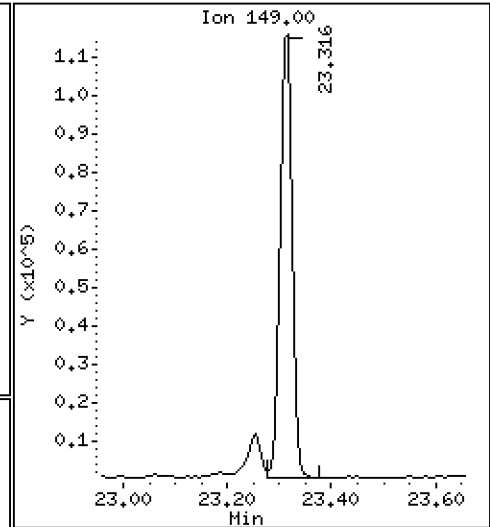
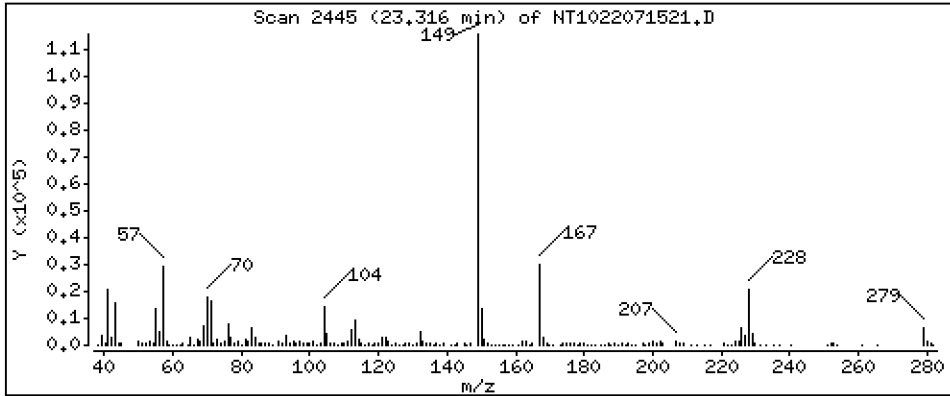
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,817 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

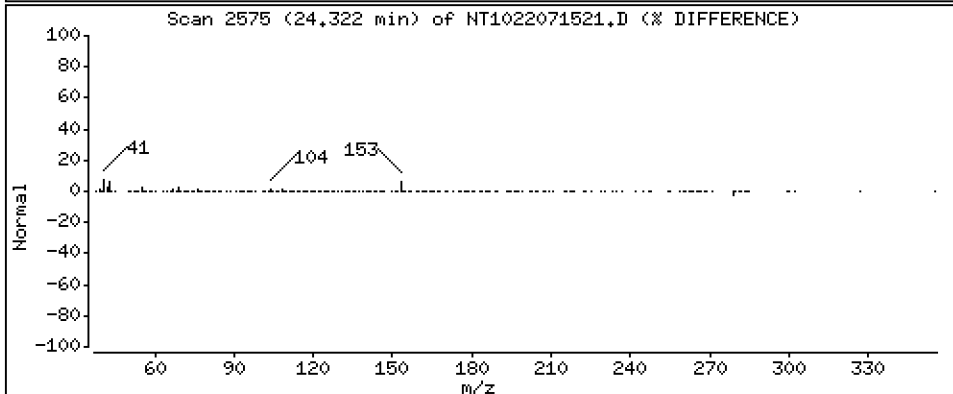
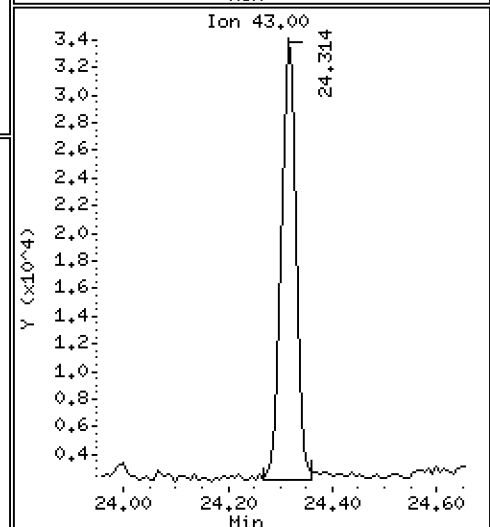
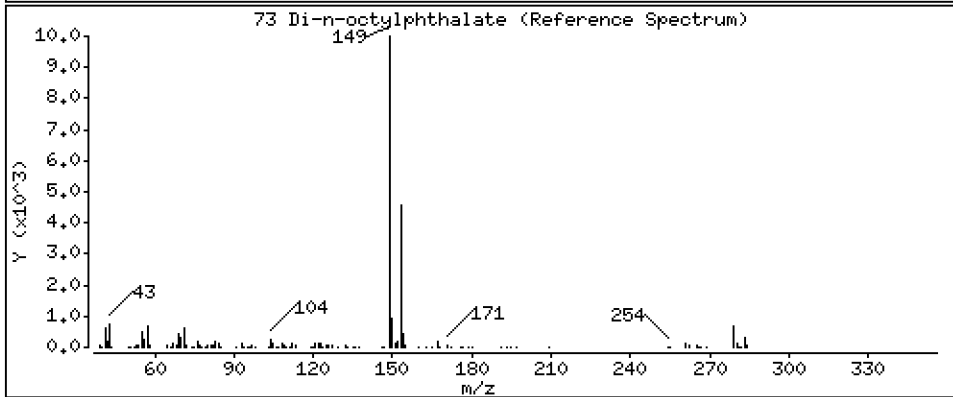
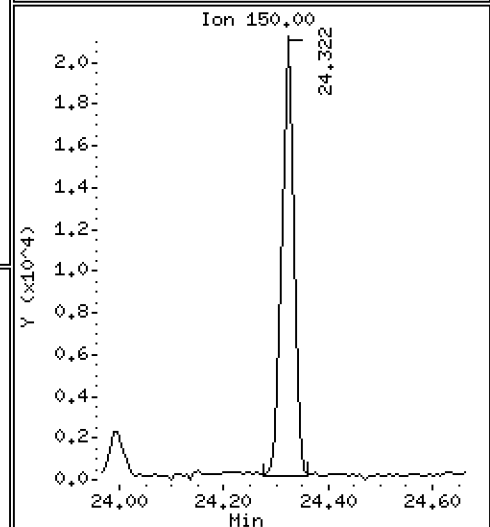
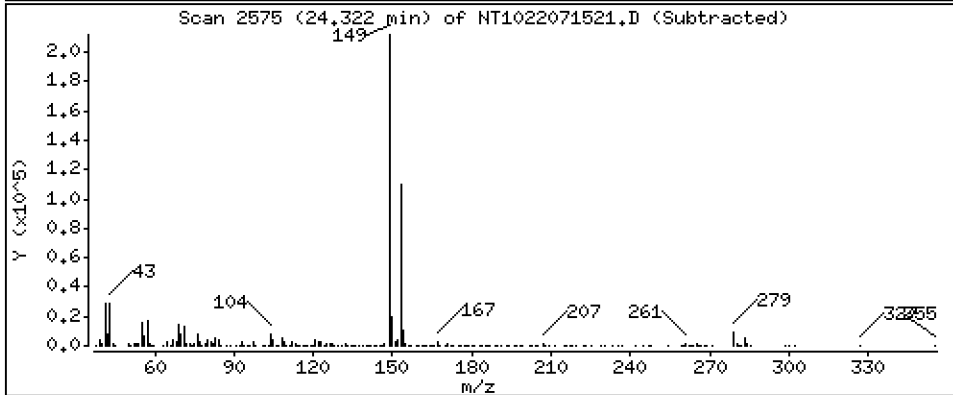
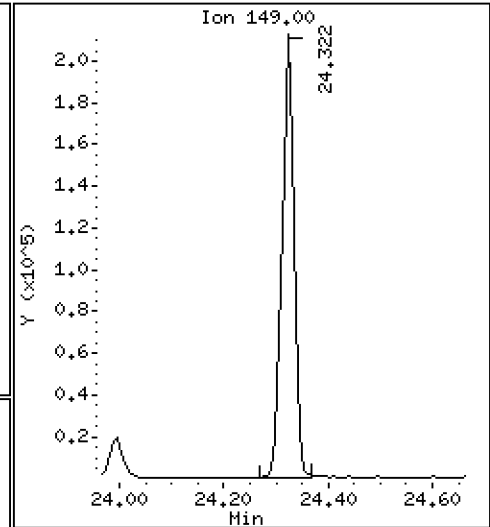
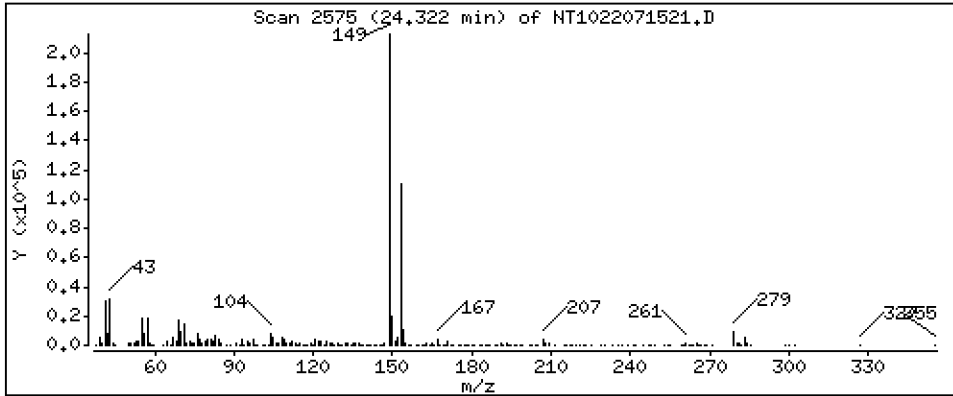
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,262 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

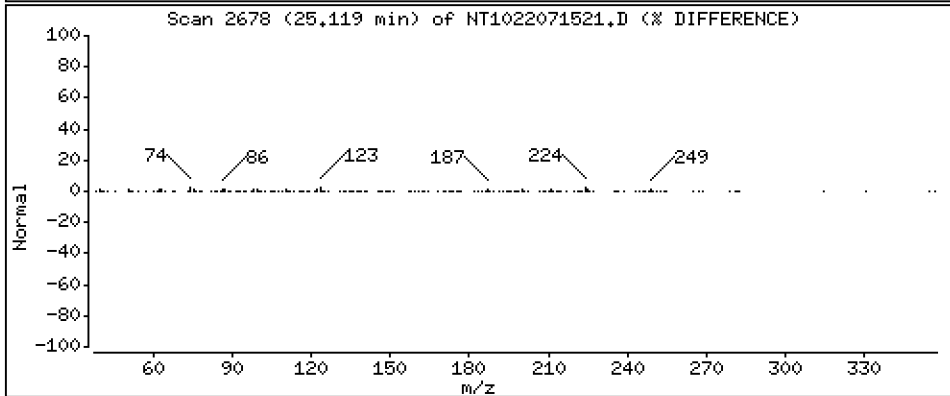
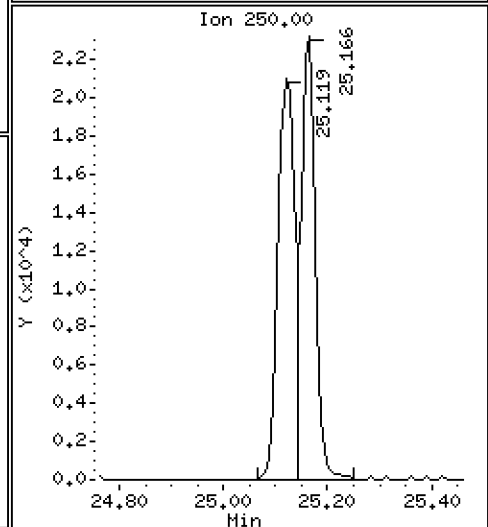
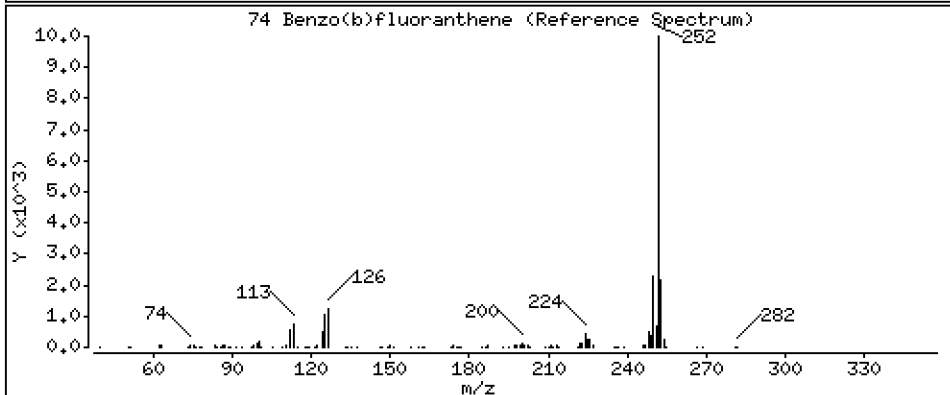
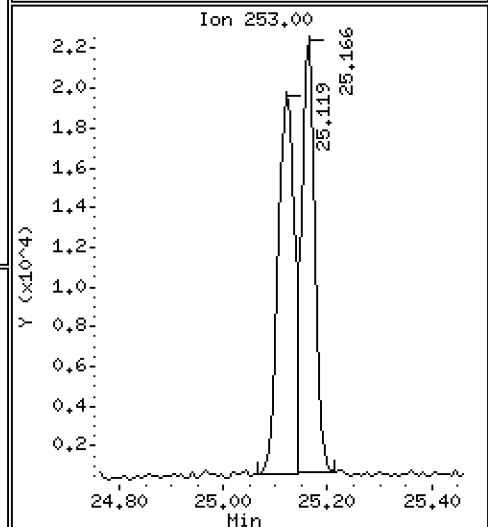
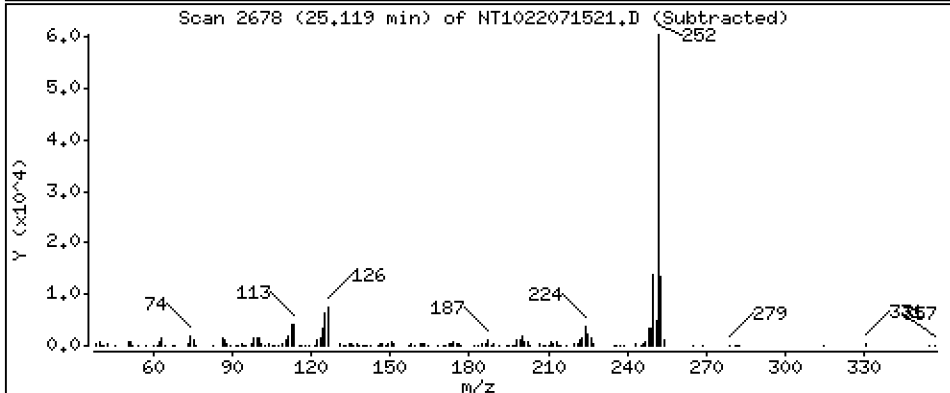
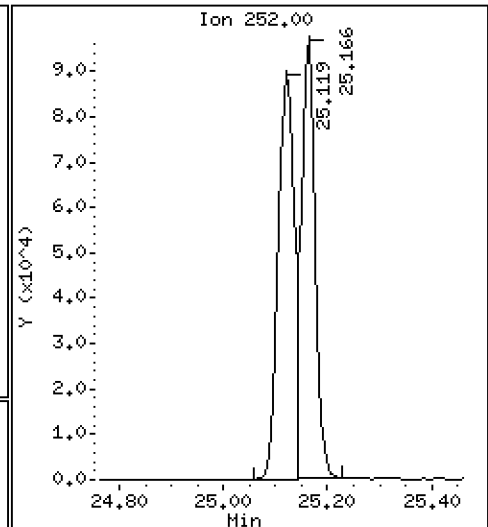
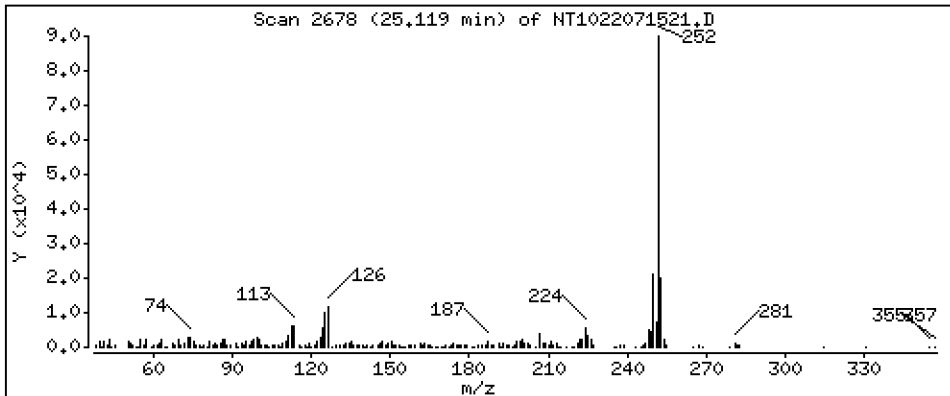
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,445 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

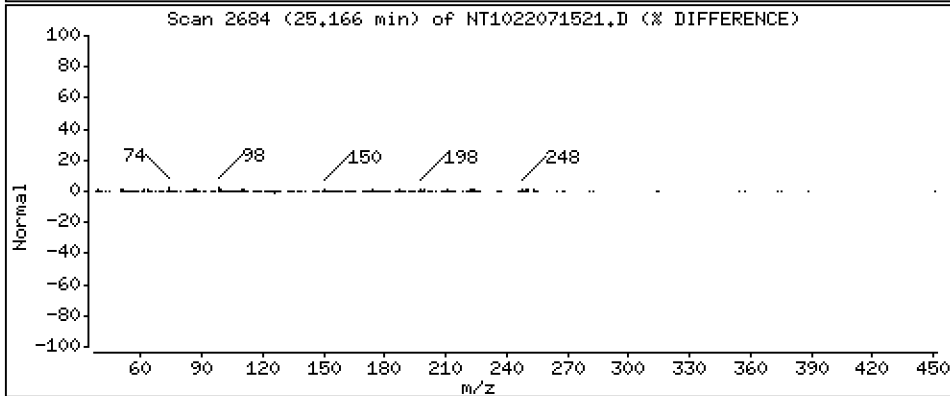
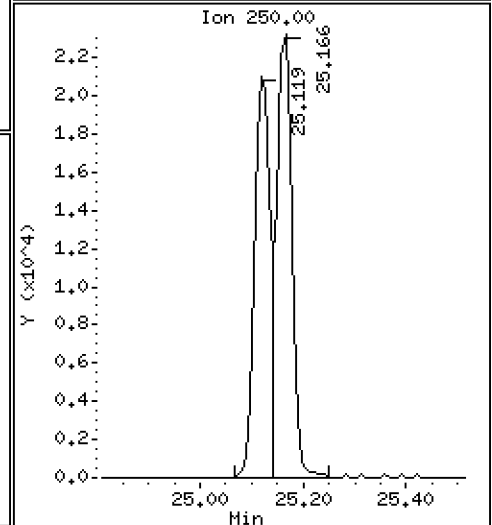
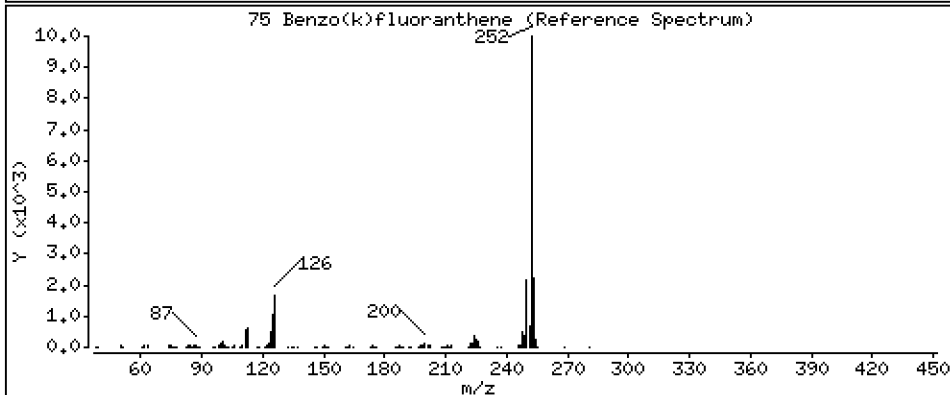
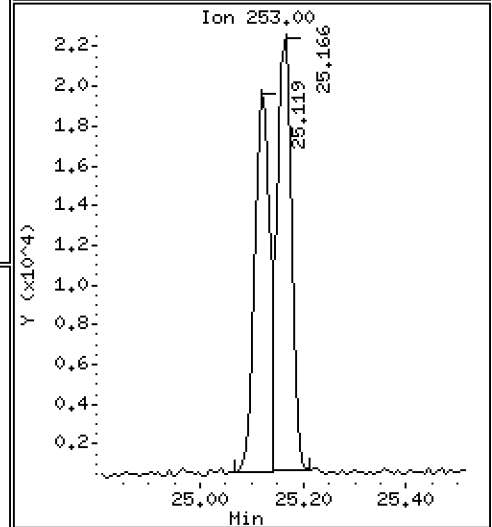
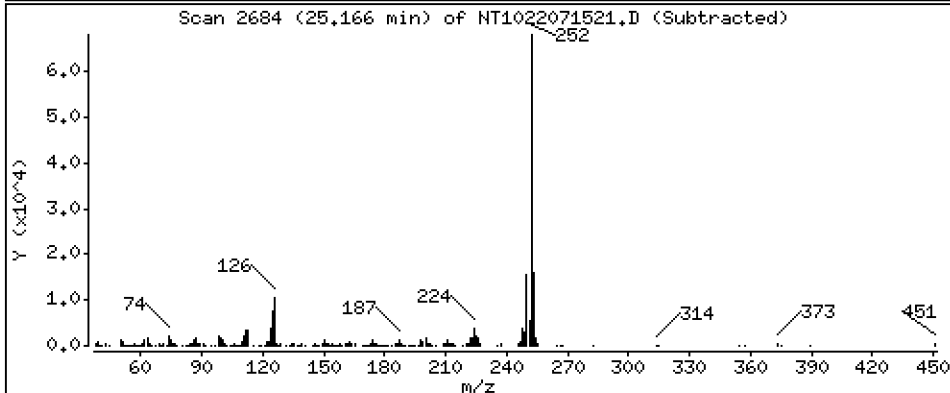
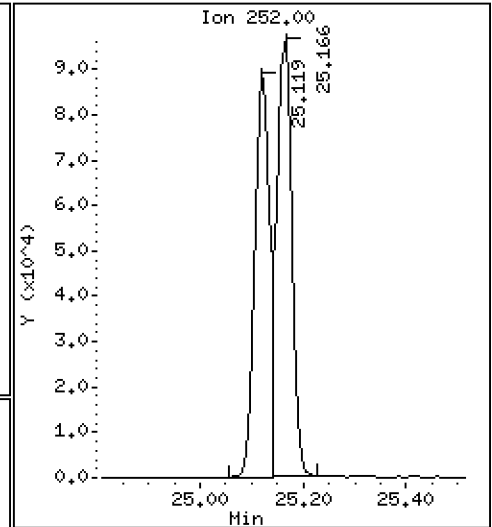
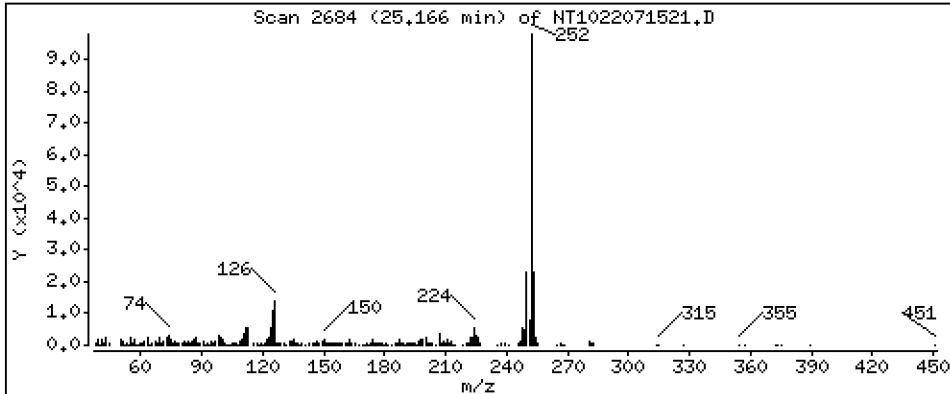
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,612 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

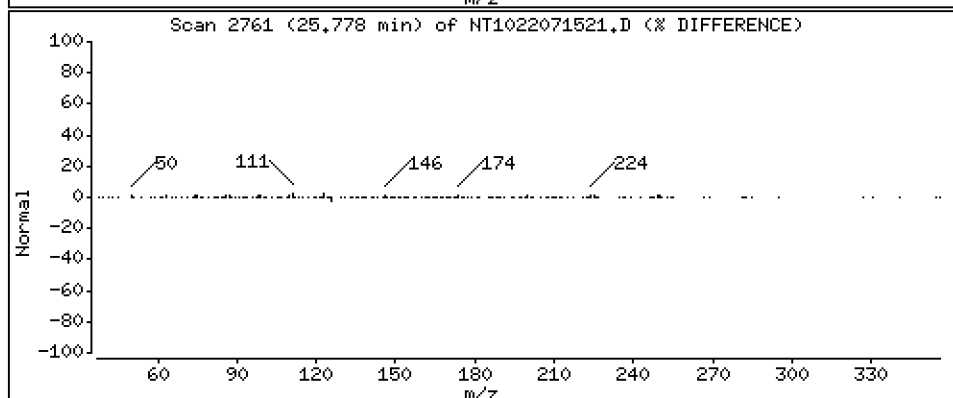
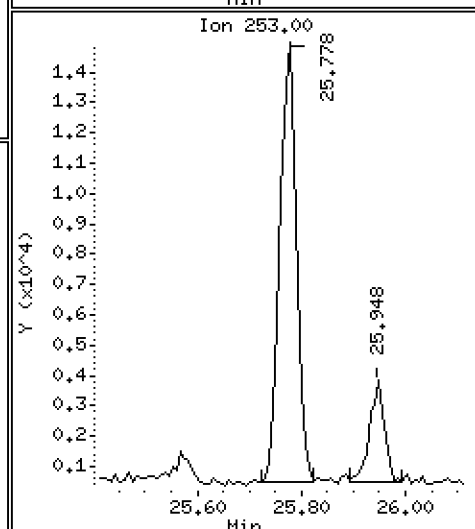
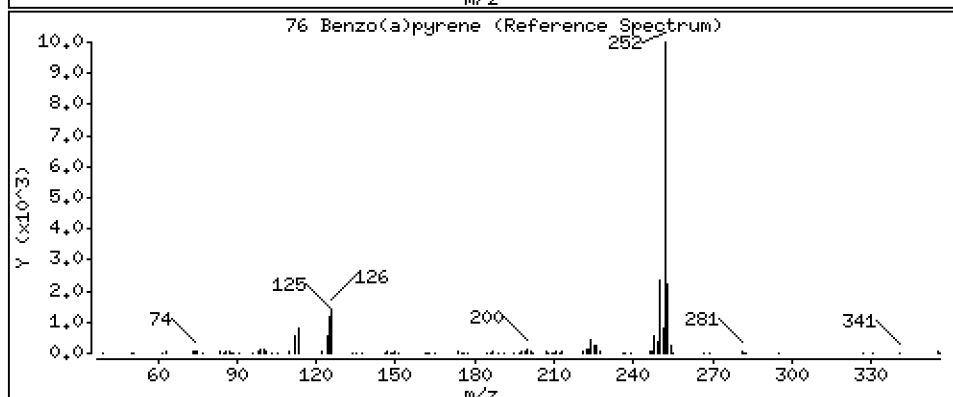
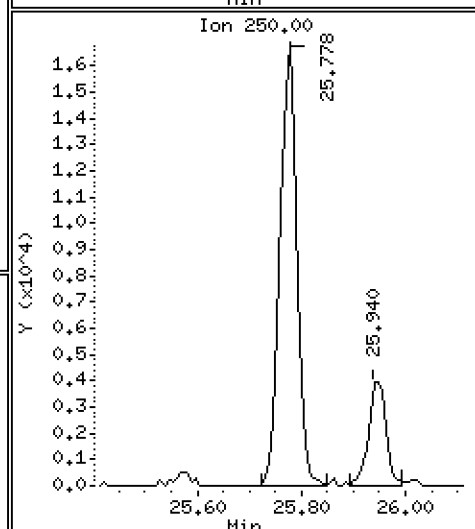
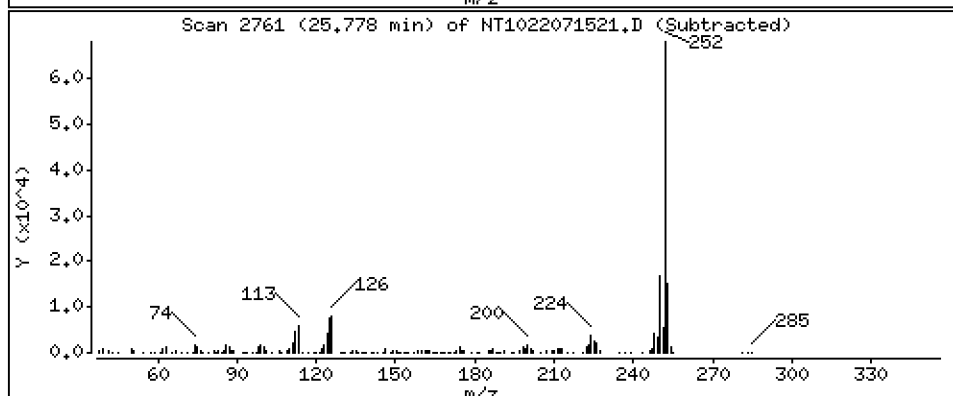
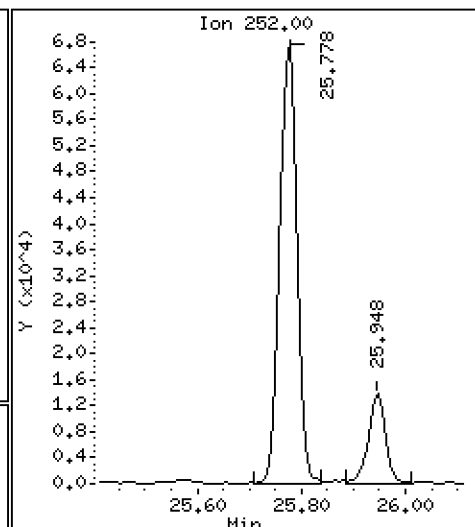
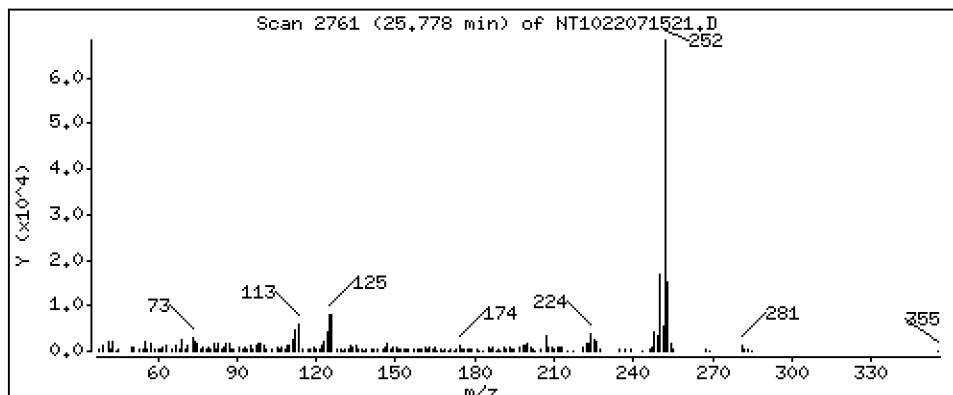
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,283 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

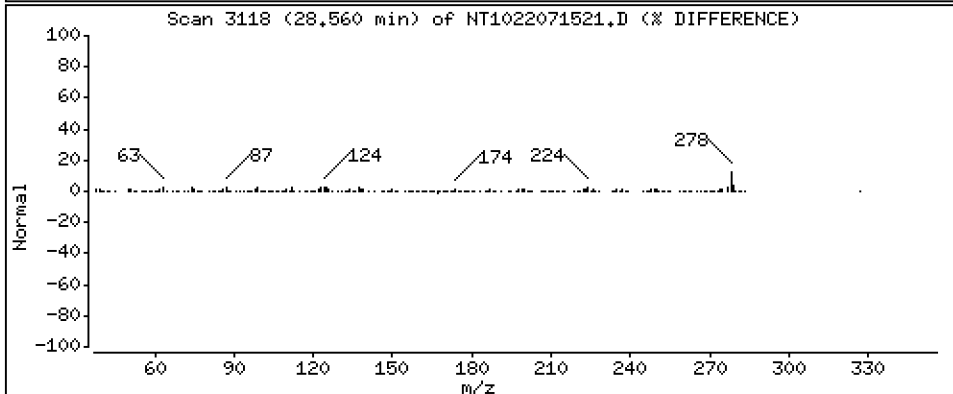
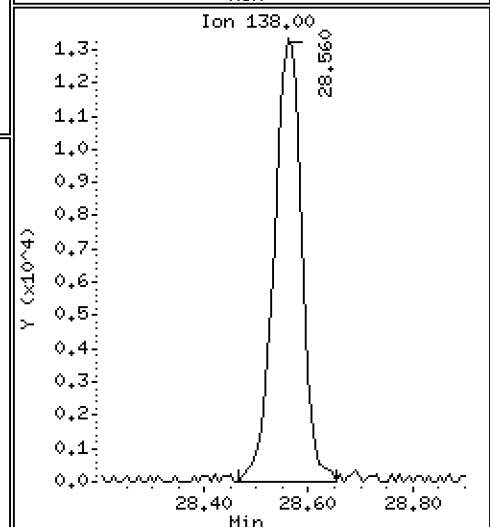
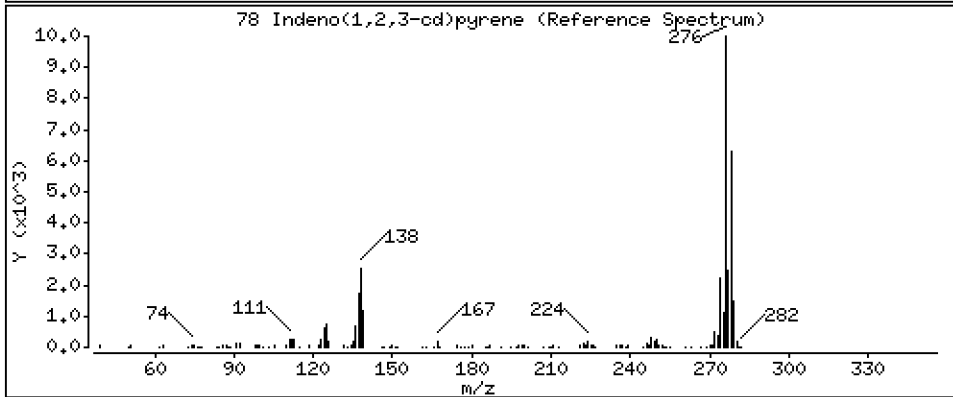
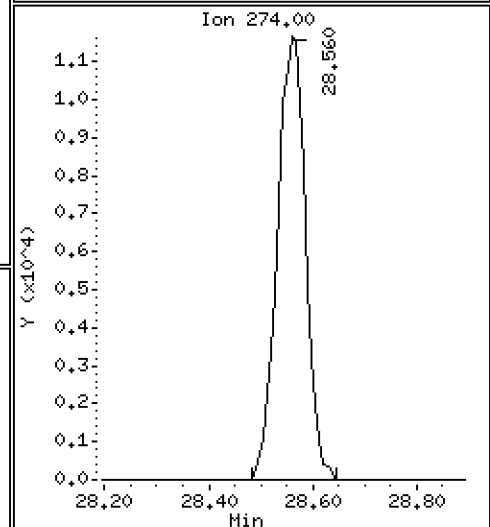
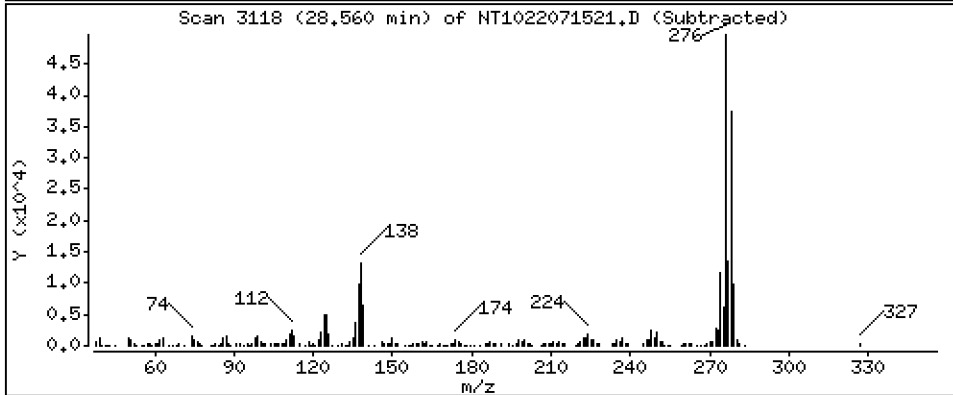
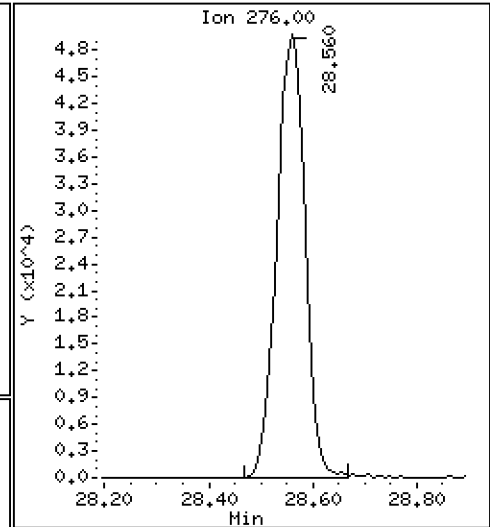
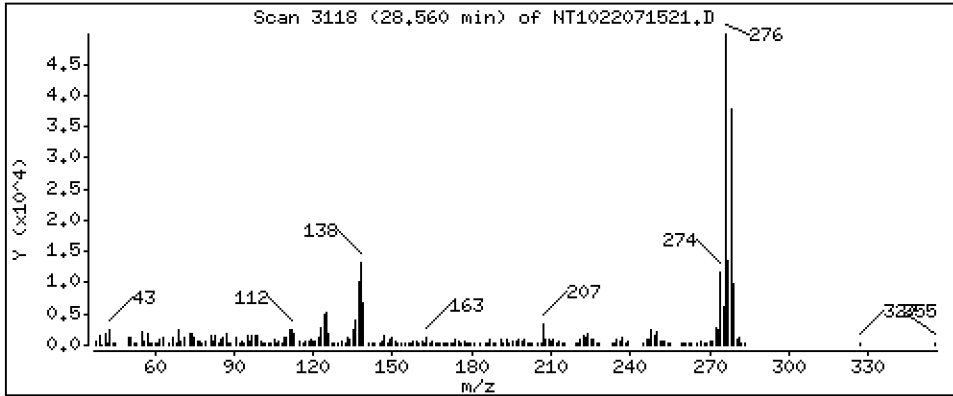
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,937 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

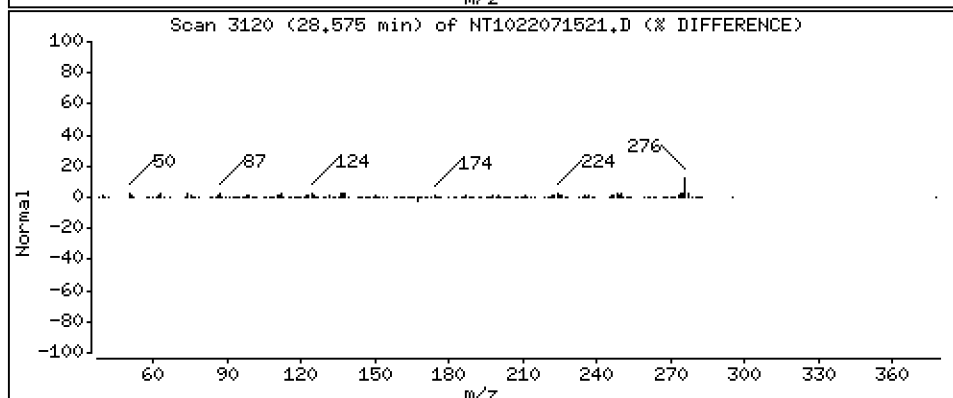
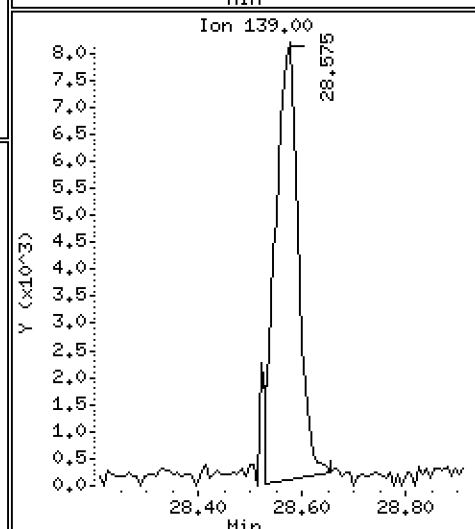
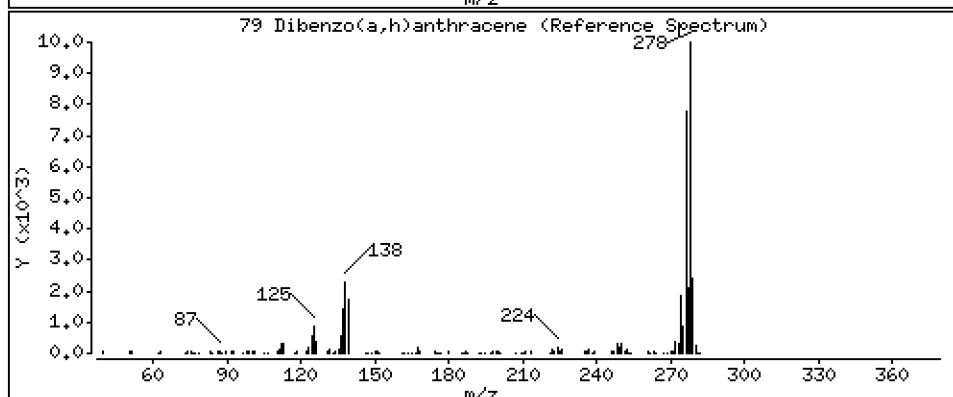
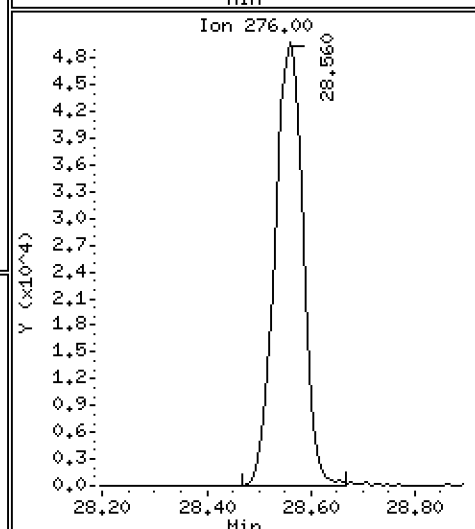
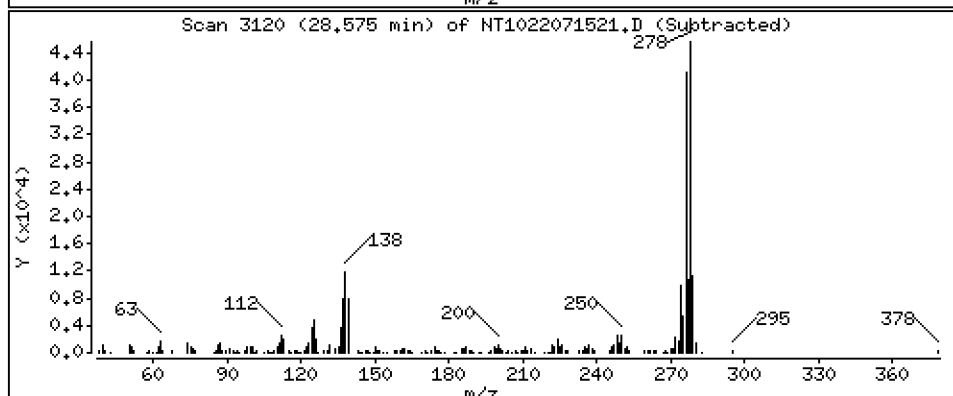
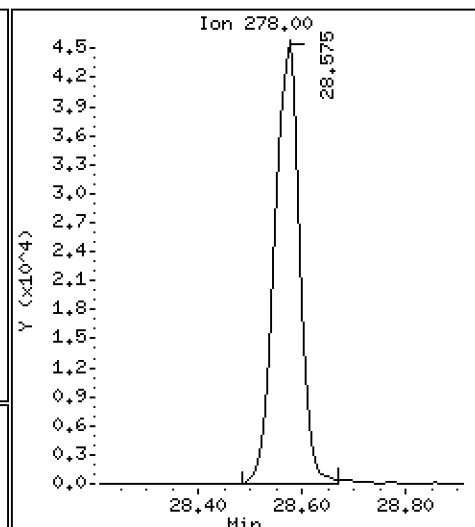
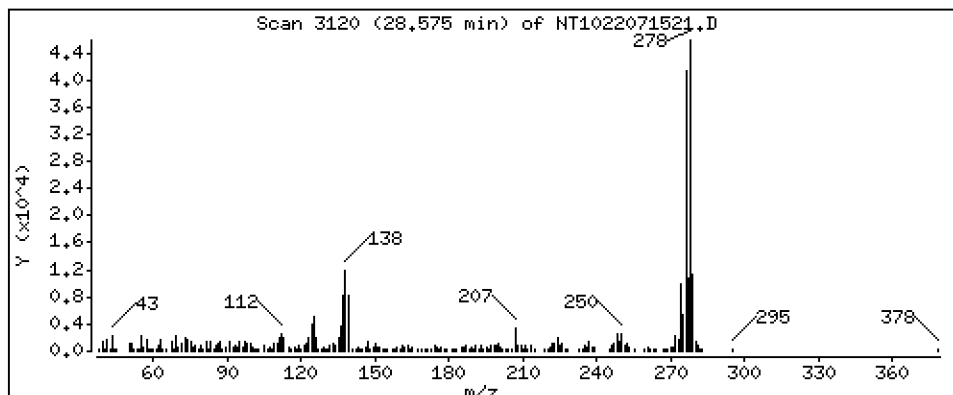
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 5,186 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

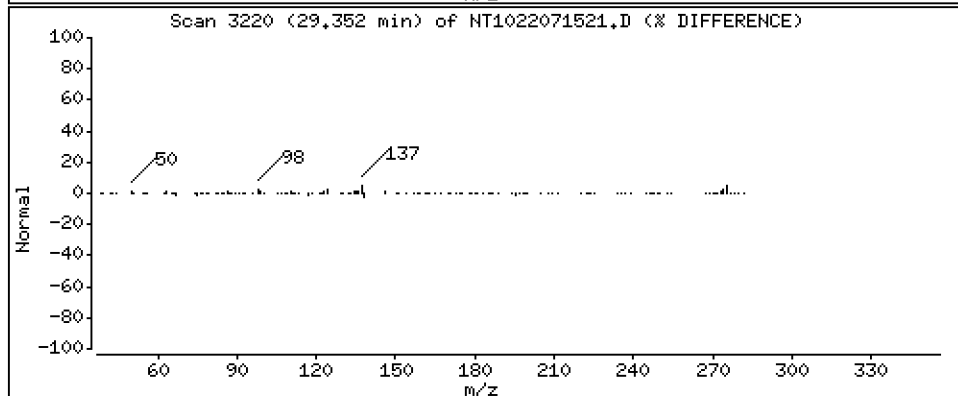
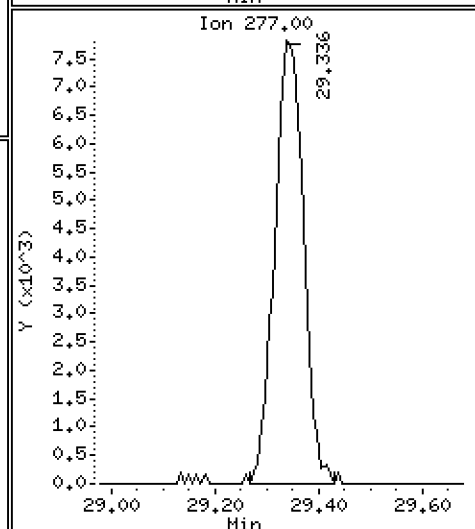
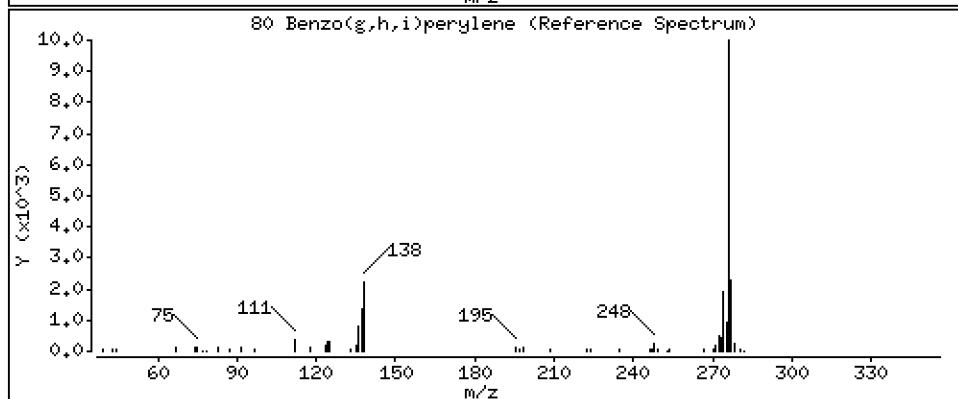
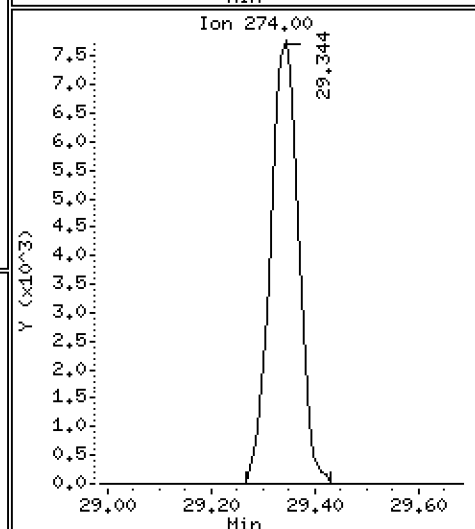
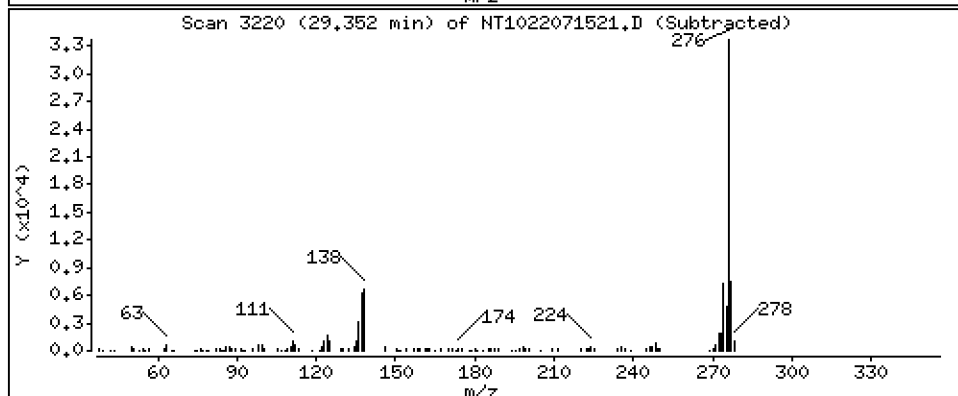
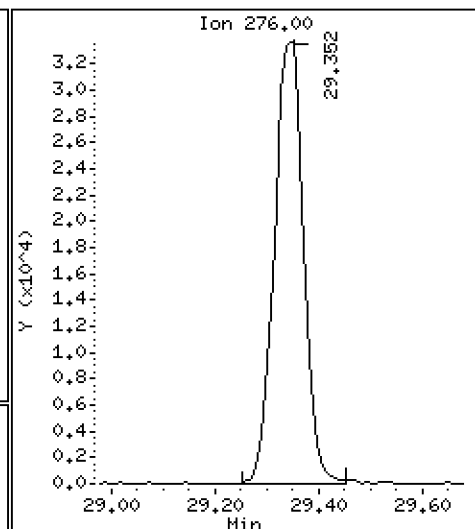
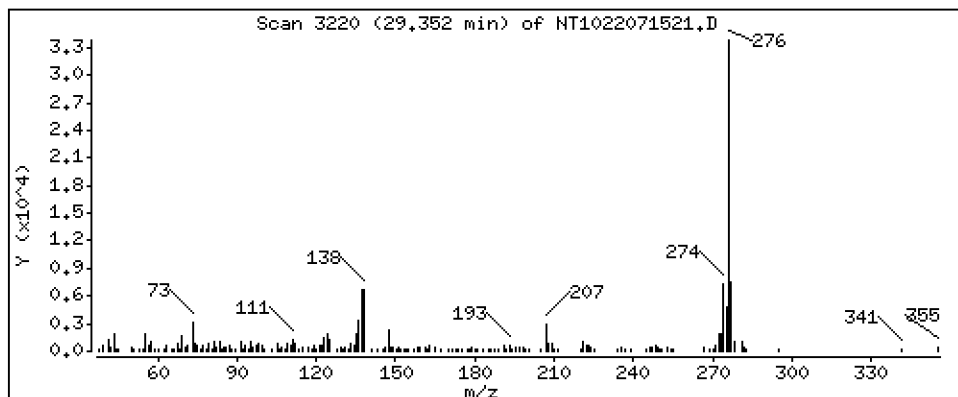
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,309 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

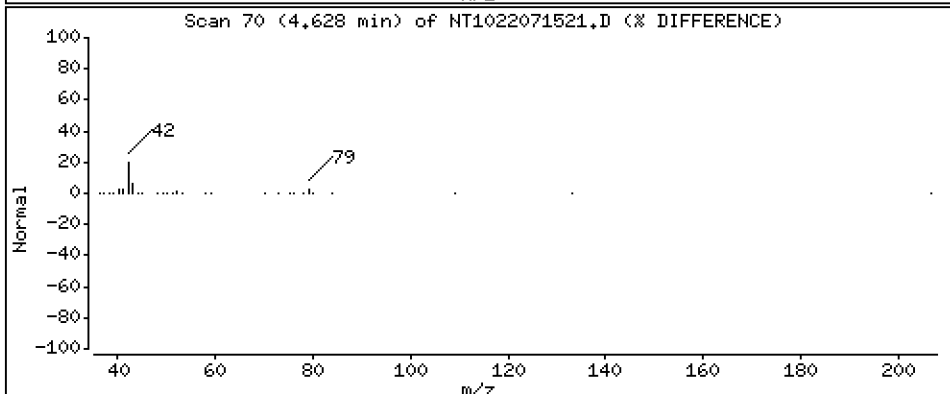
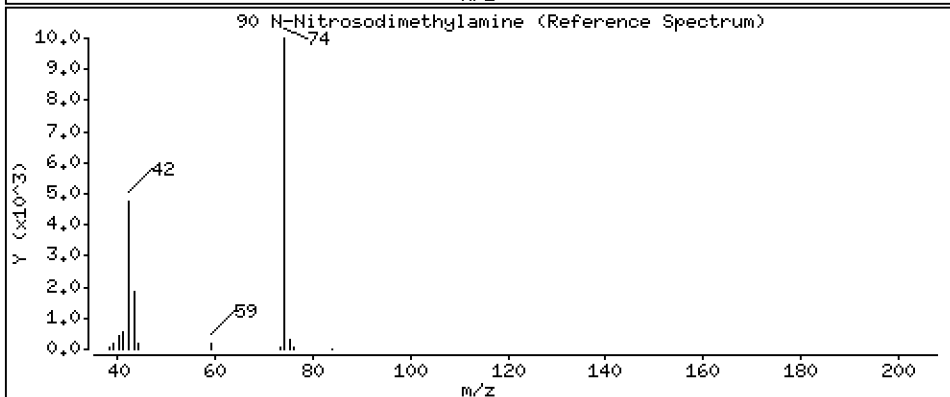
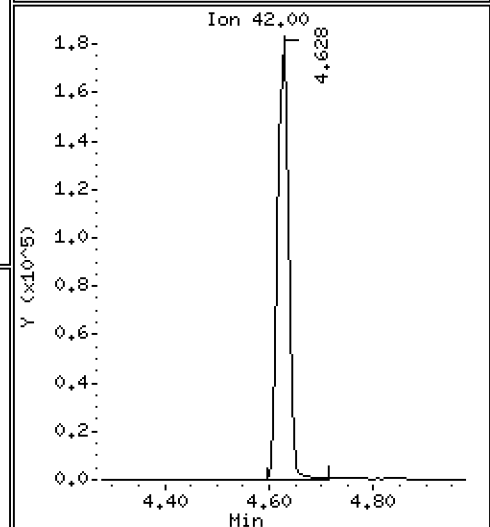
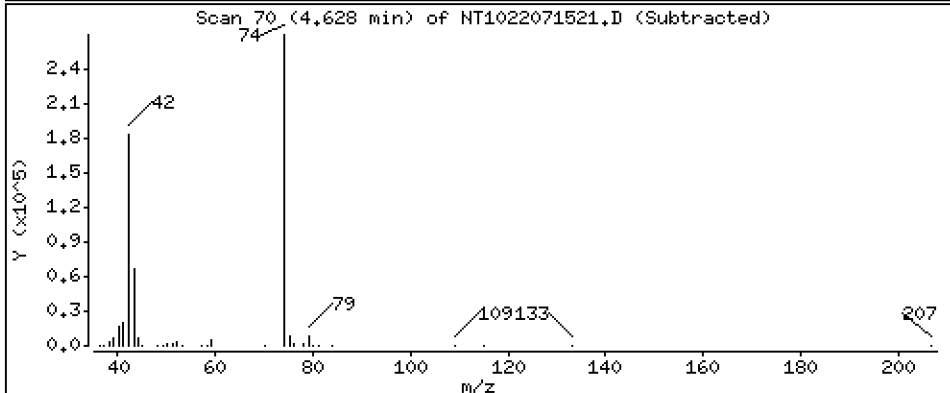
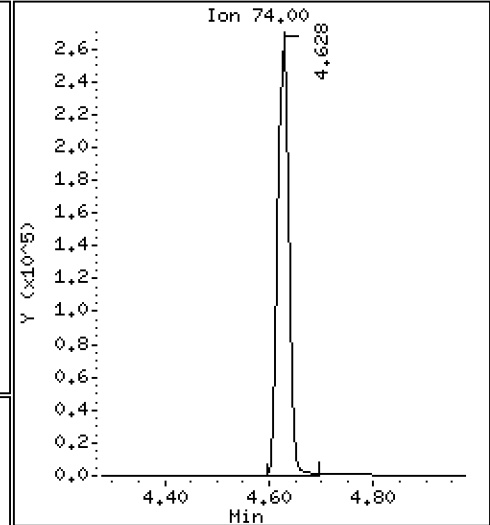
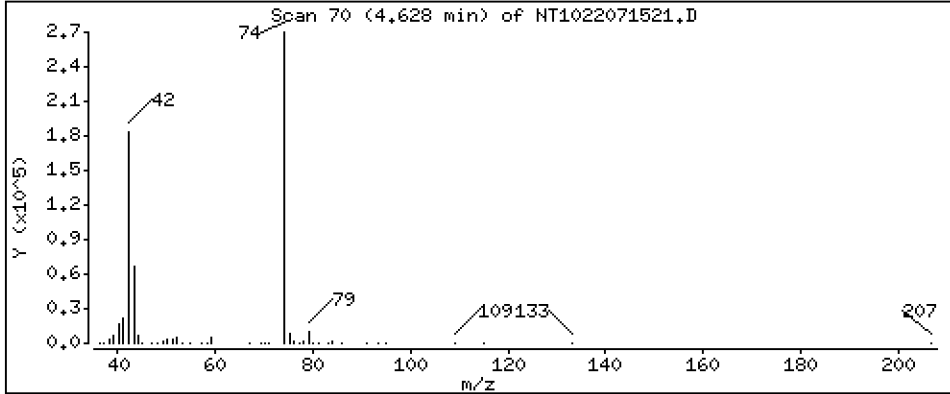
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 8.041 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

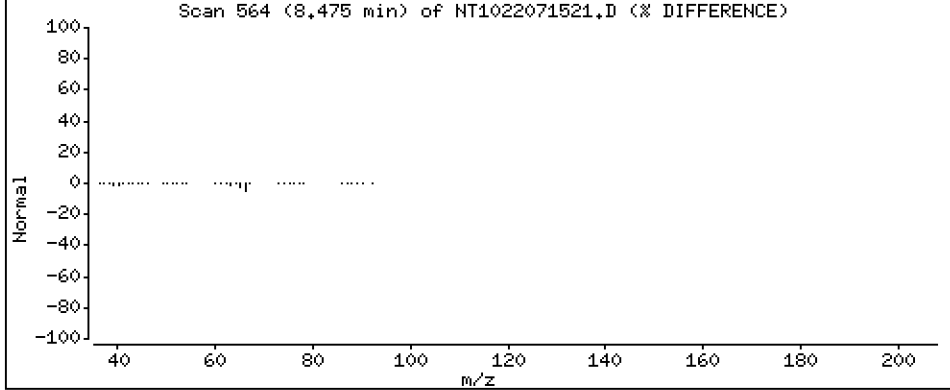
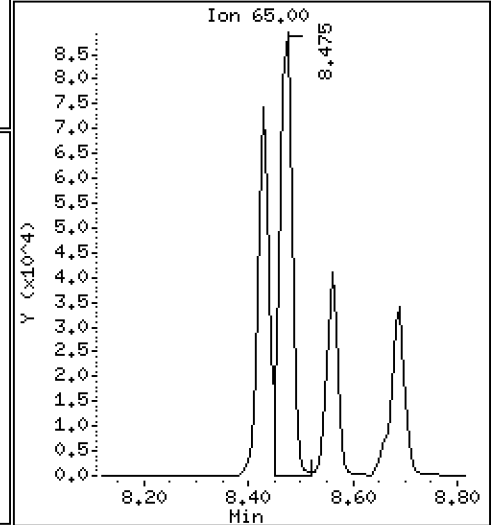
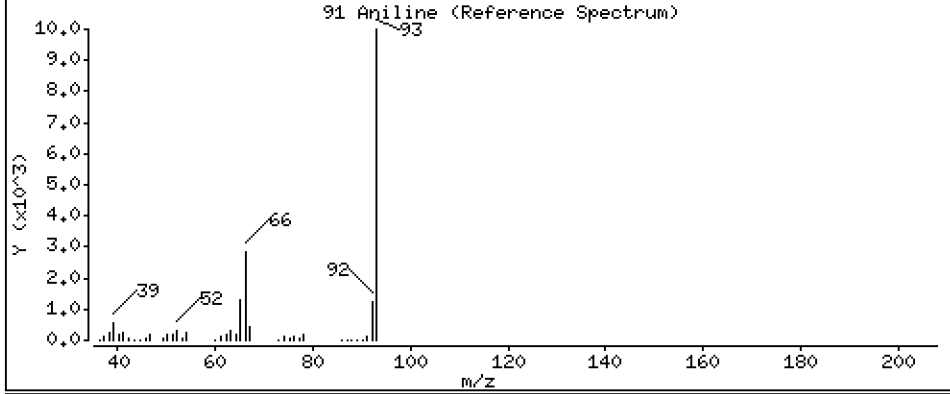
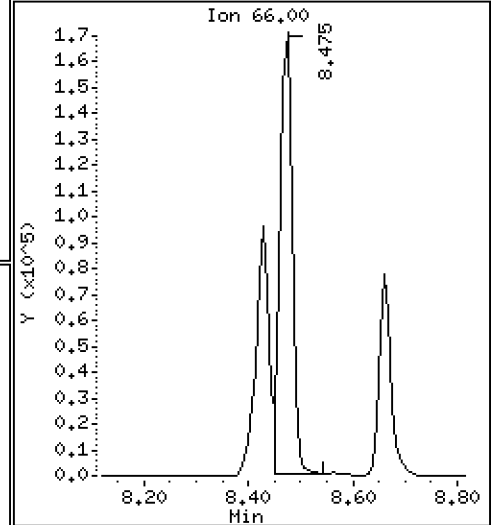
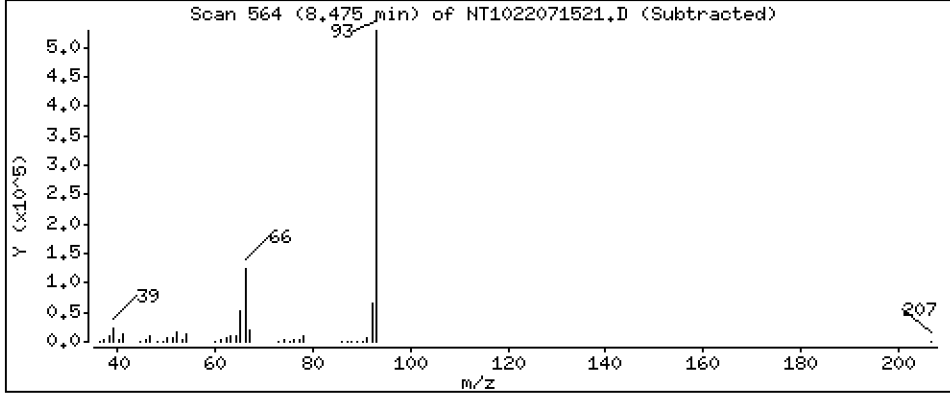
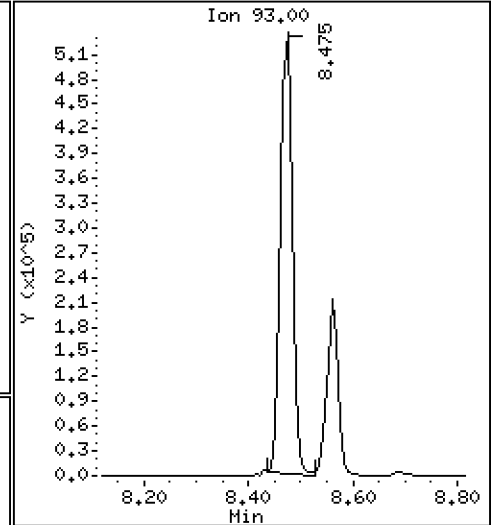
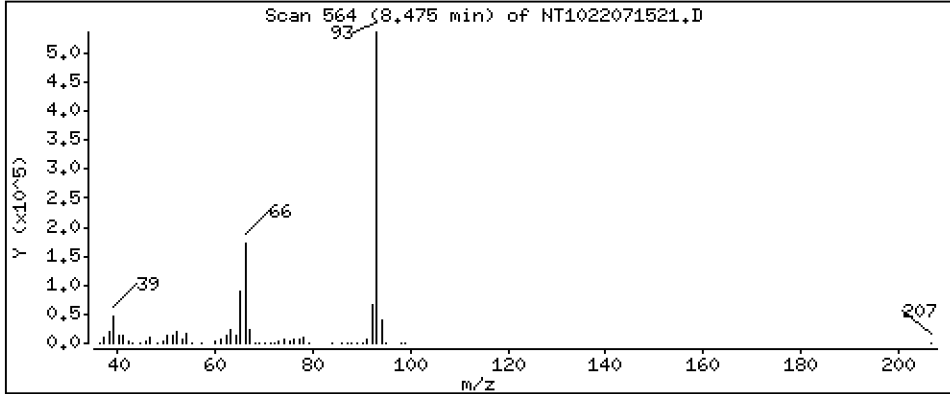
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 8,929 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

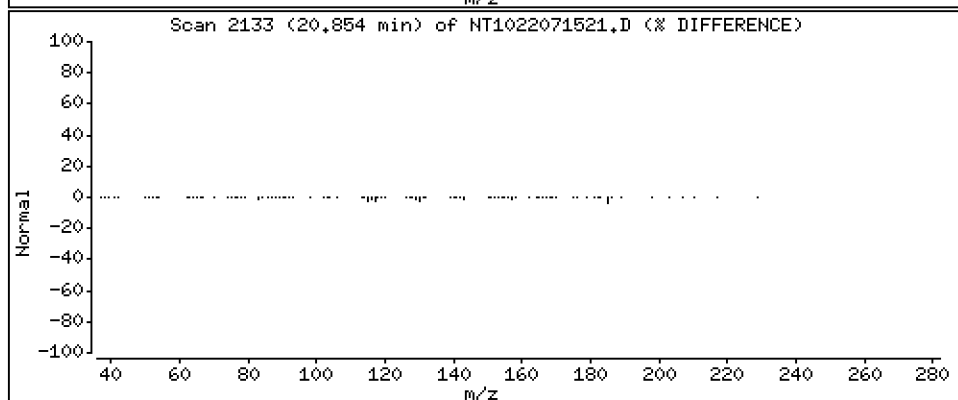
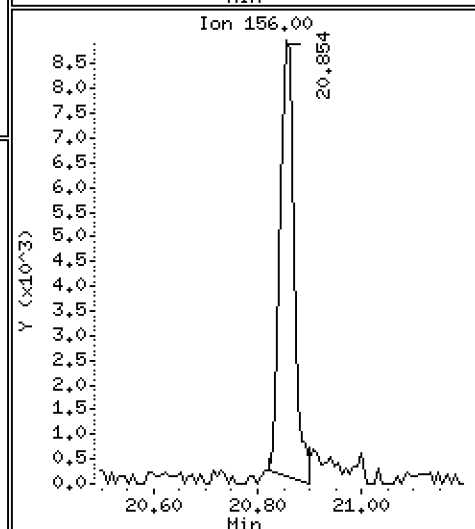
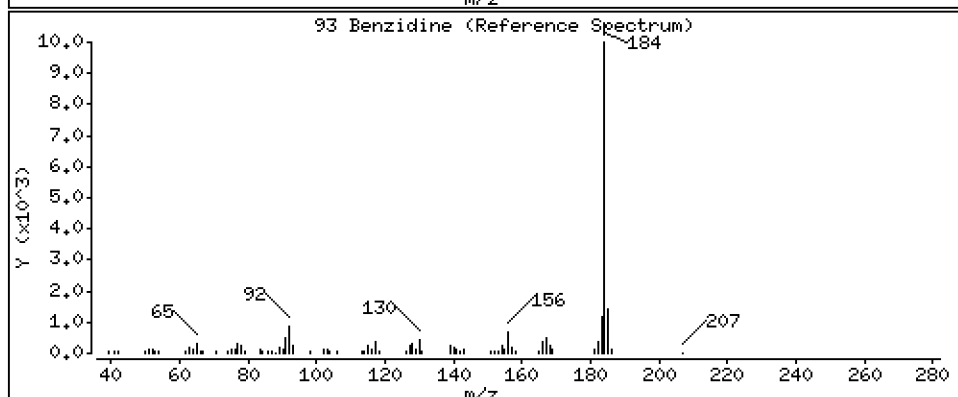
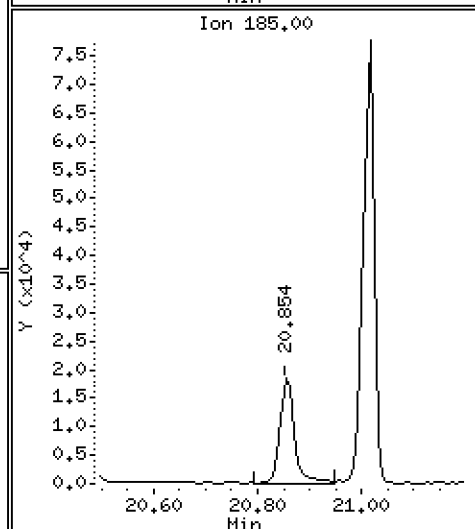
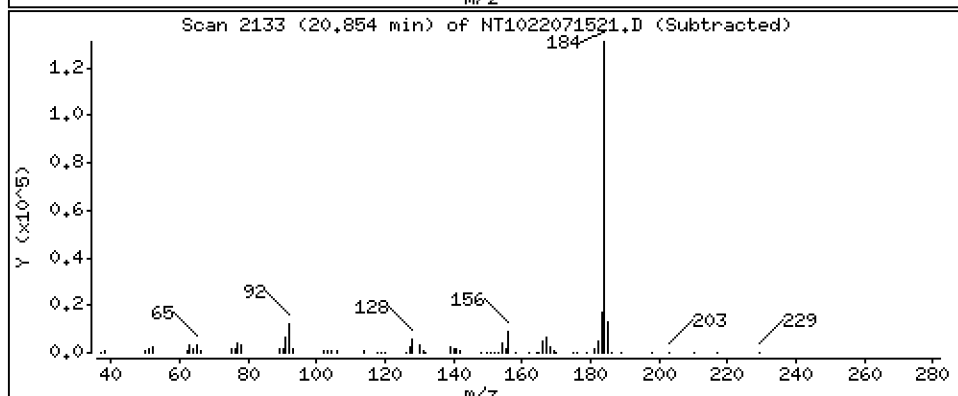
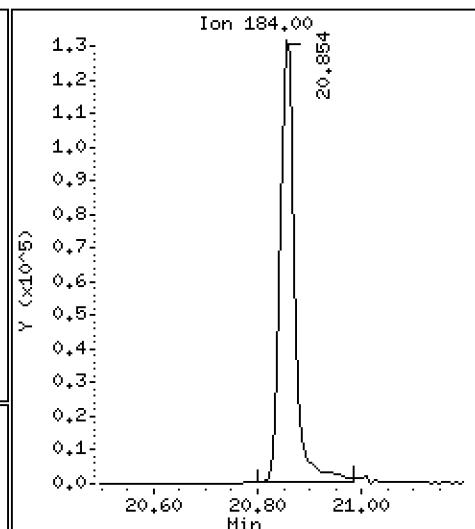
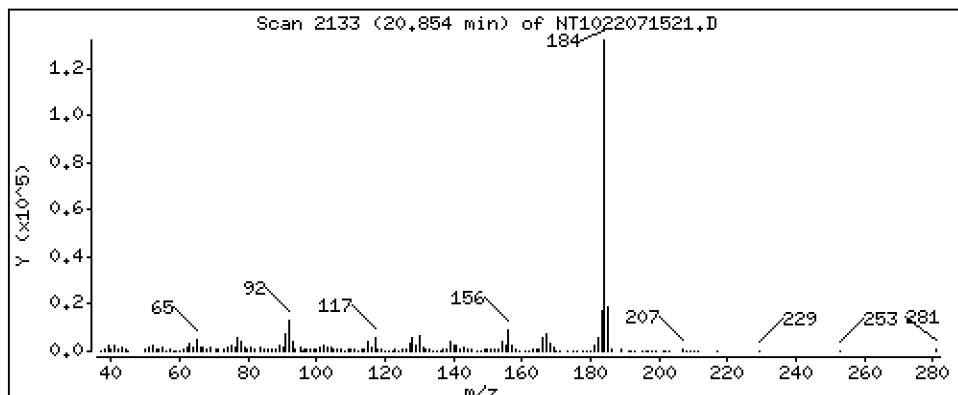
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 8,597 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

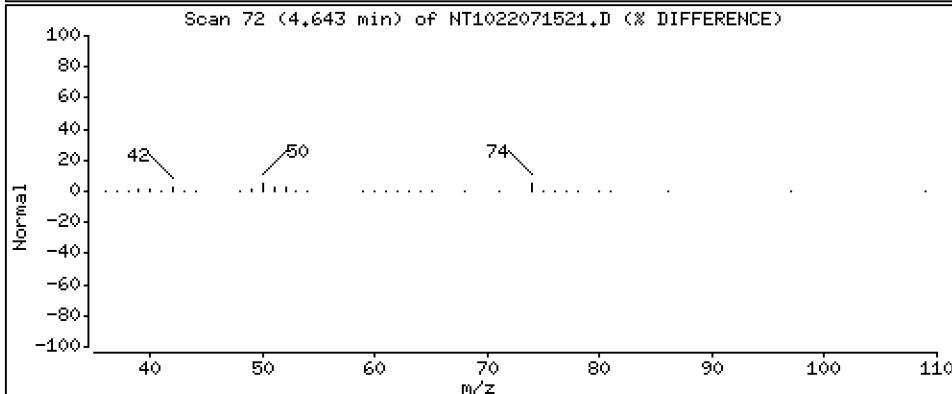
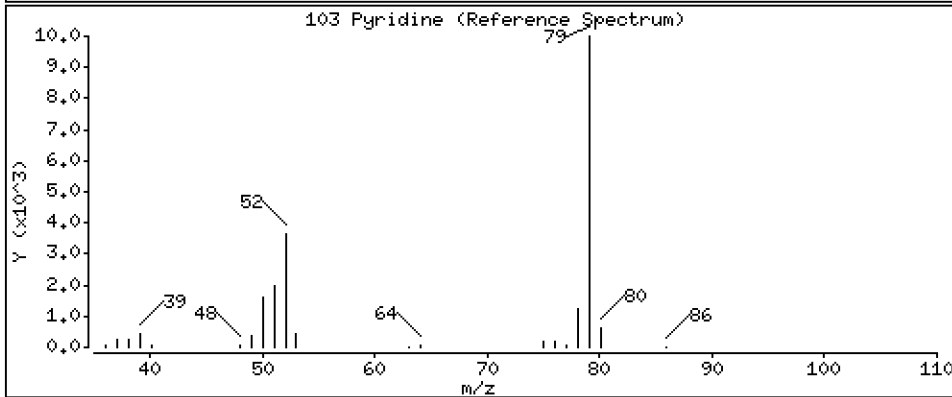
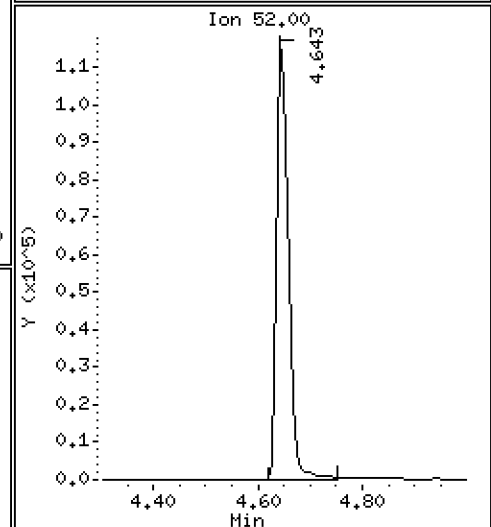
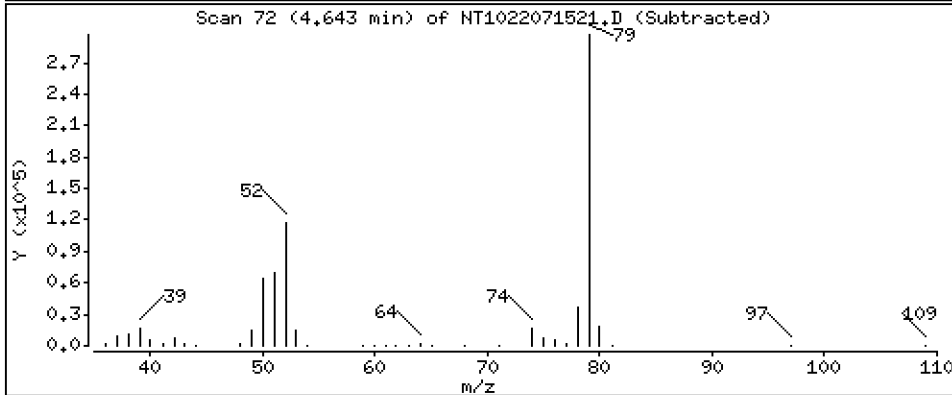
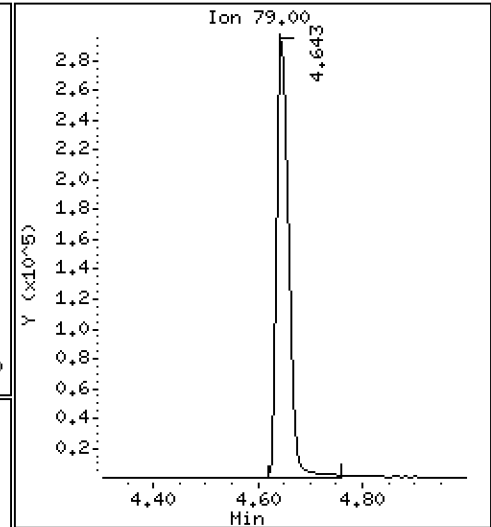
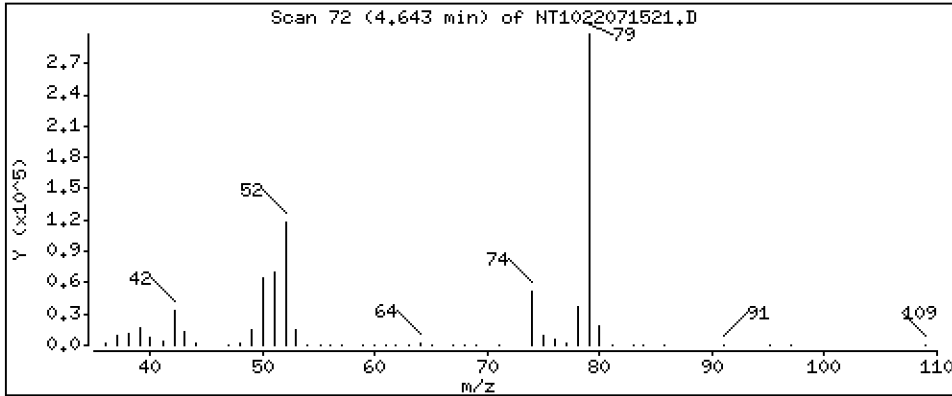
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 3.507 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

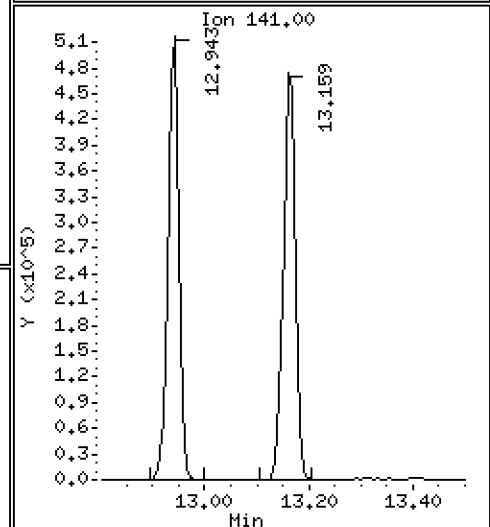
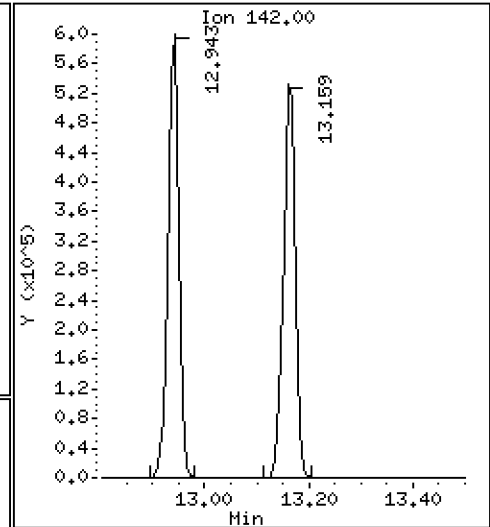
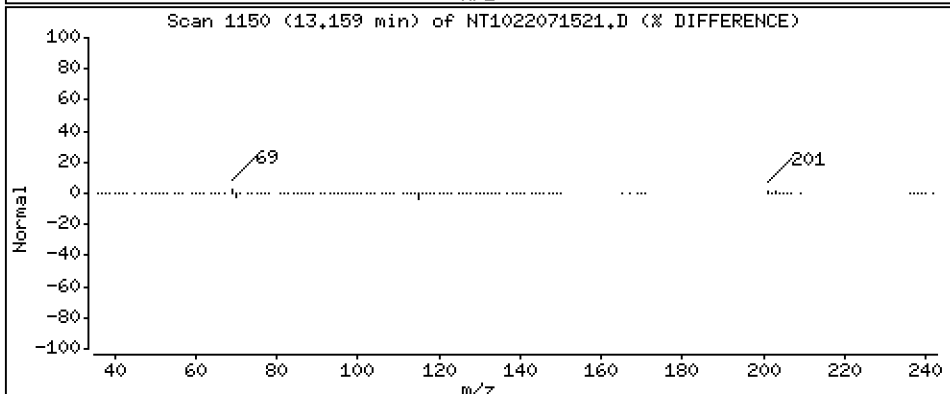
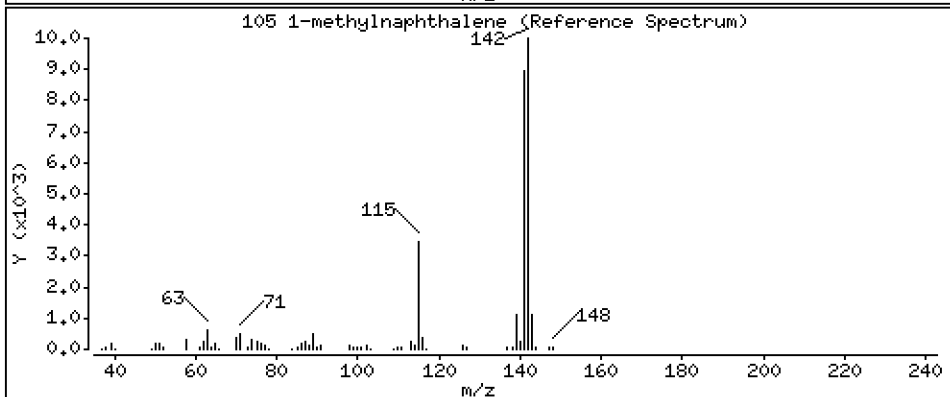
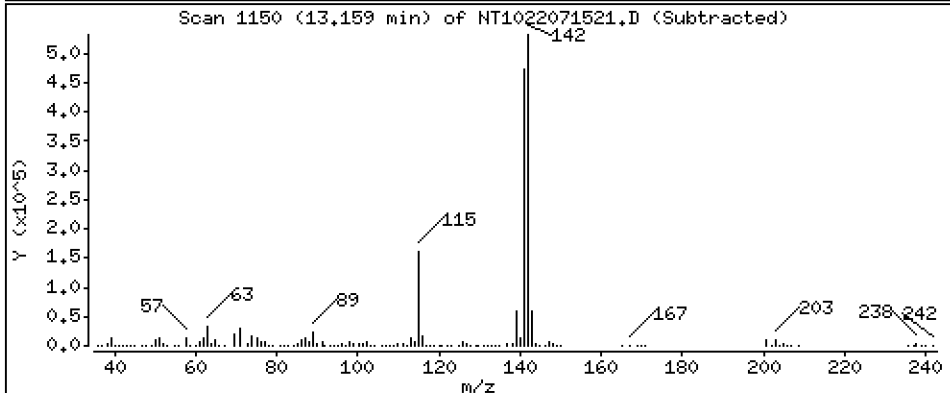
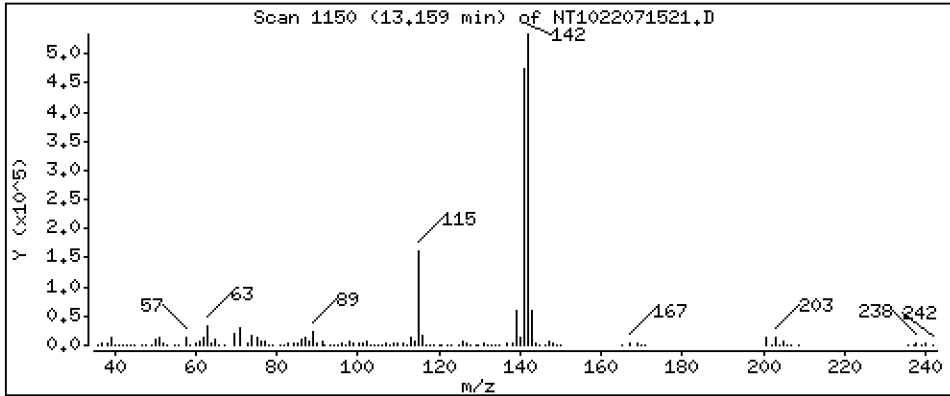
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,353 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

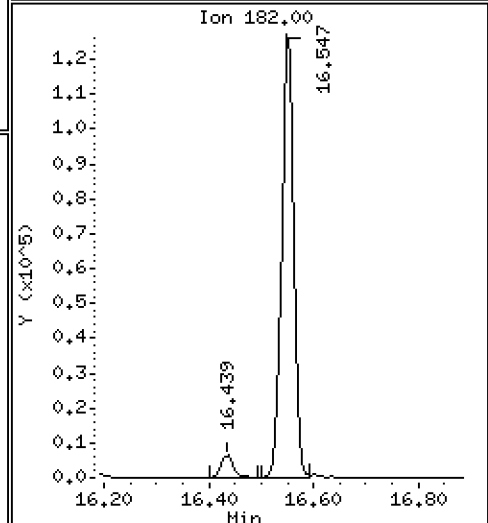
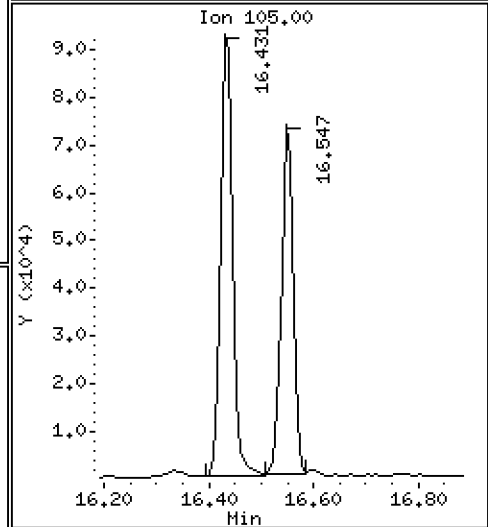
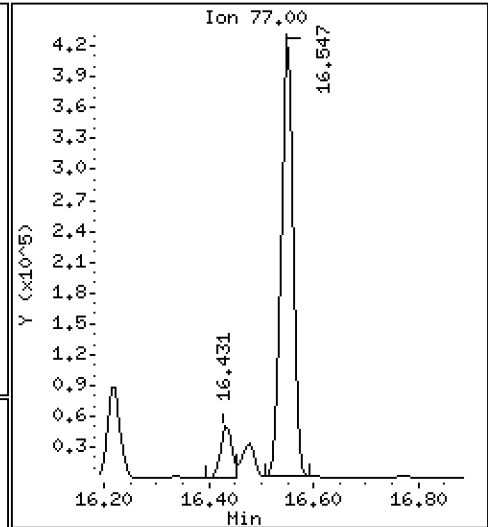
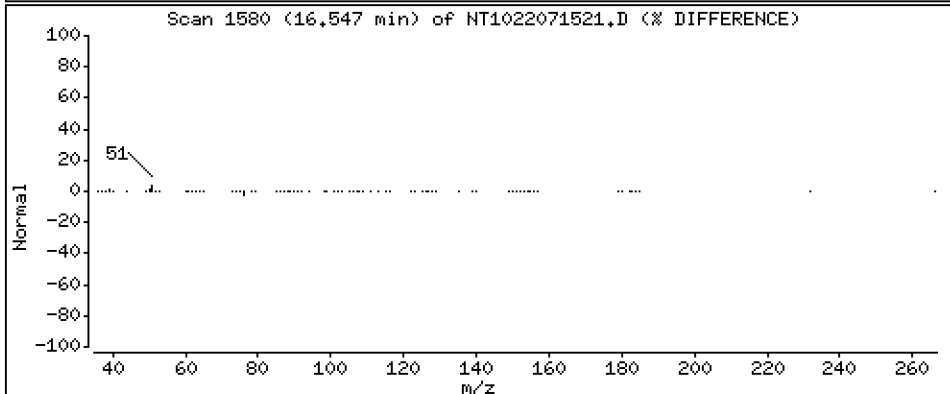
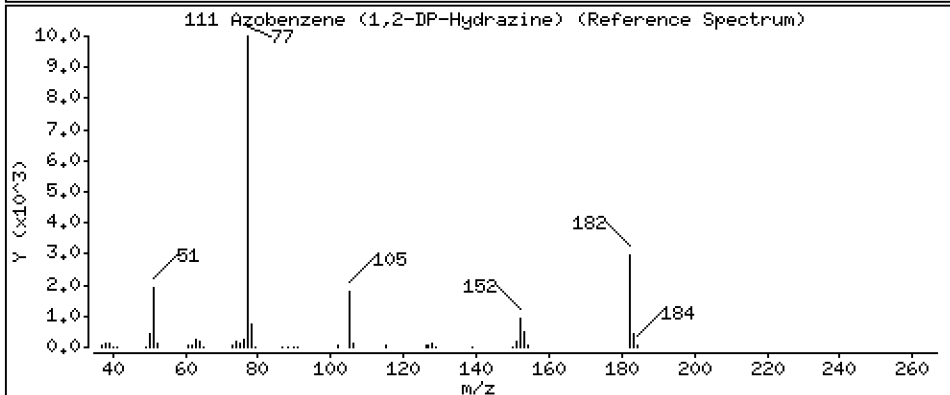
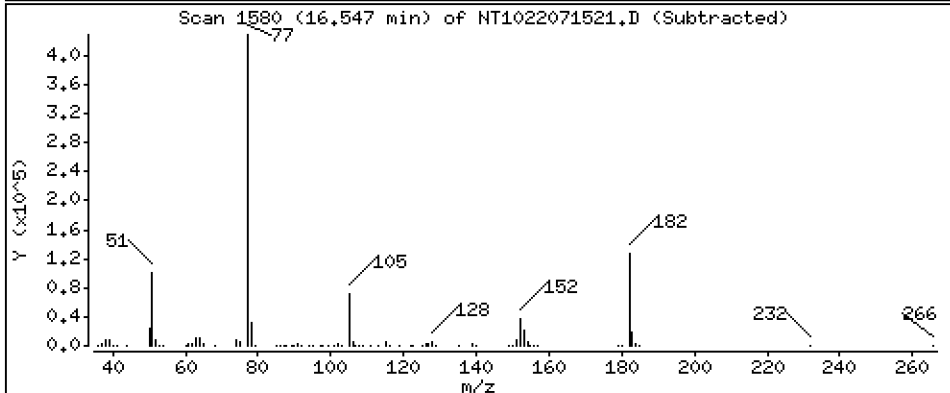
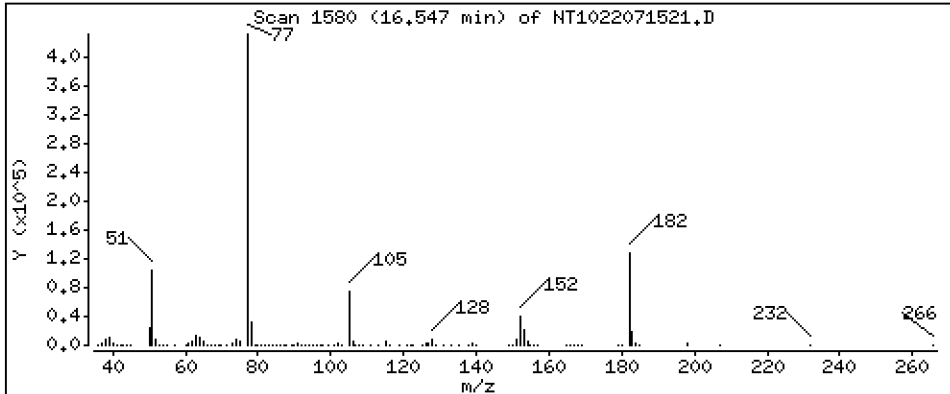
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,899 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

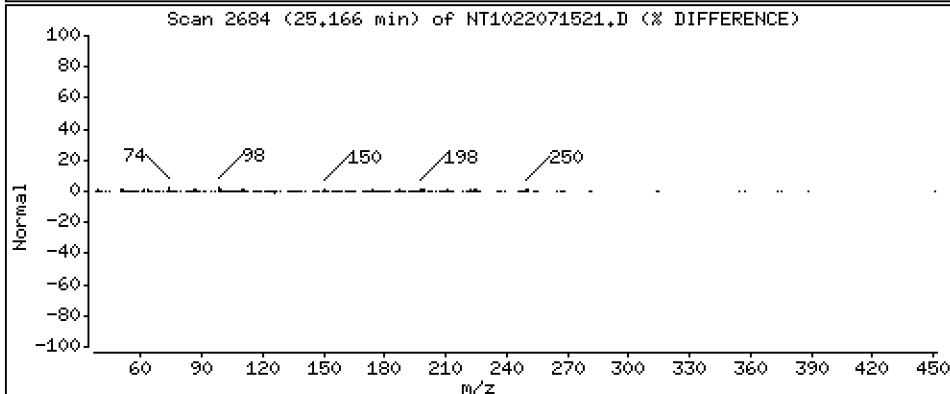
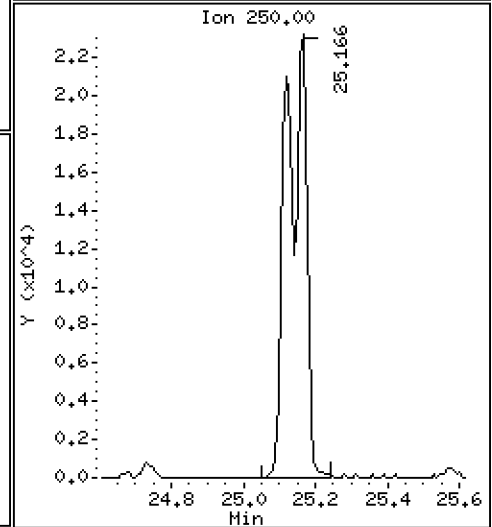
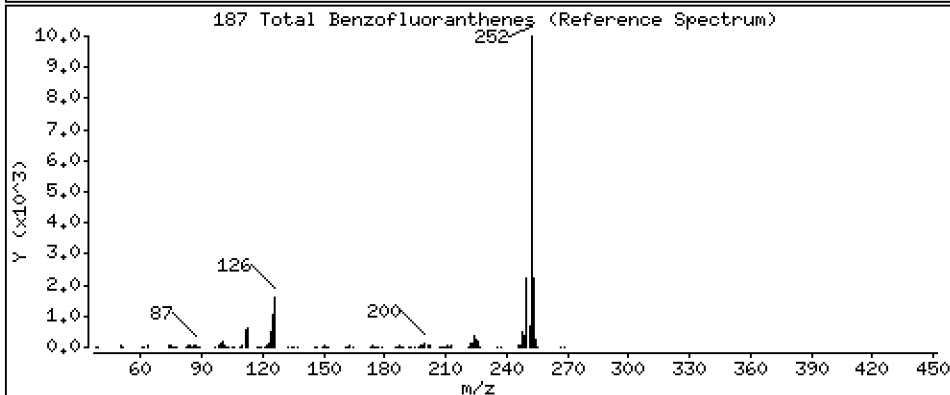
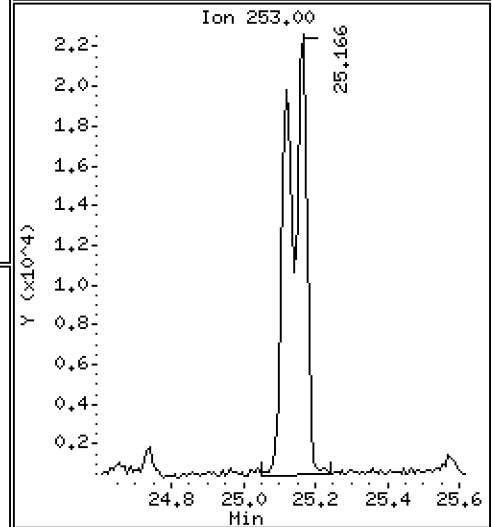
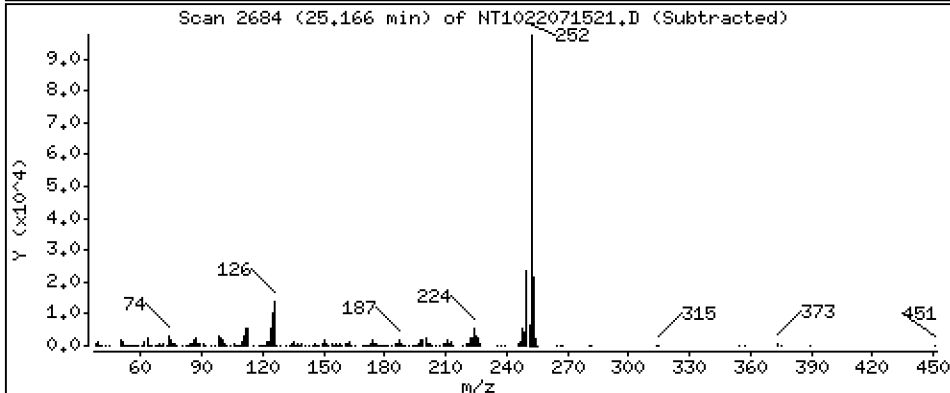
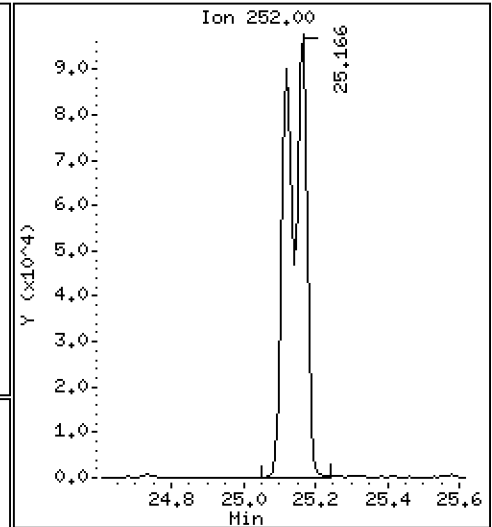
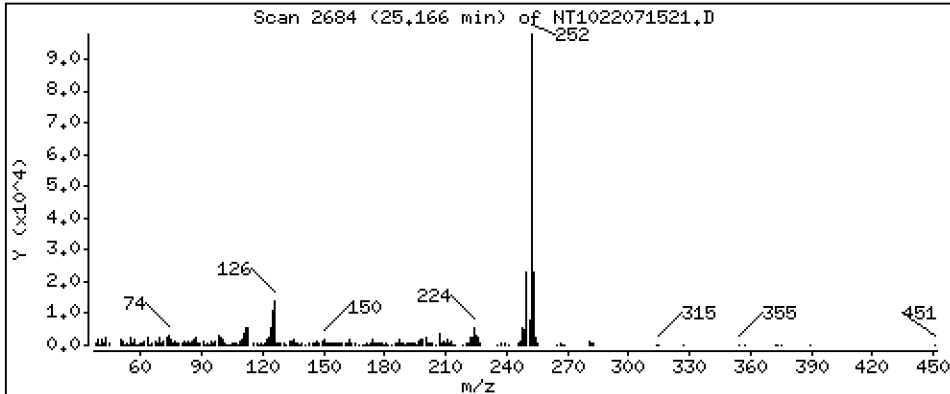
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,048 ug/mL



Date : 16-JUL-2022 01:11

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-CCV1

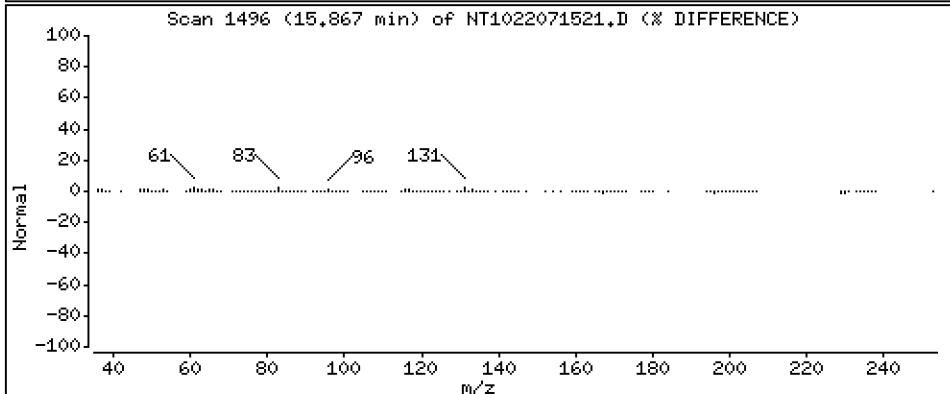
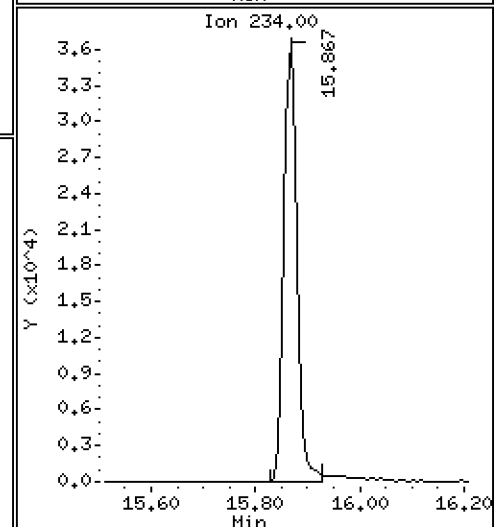
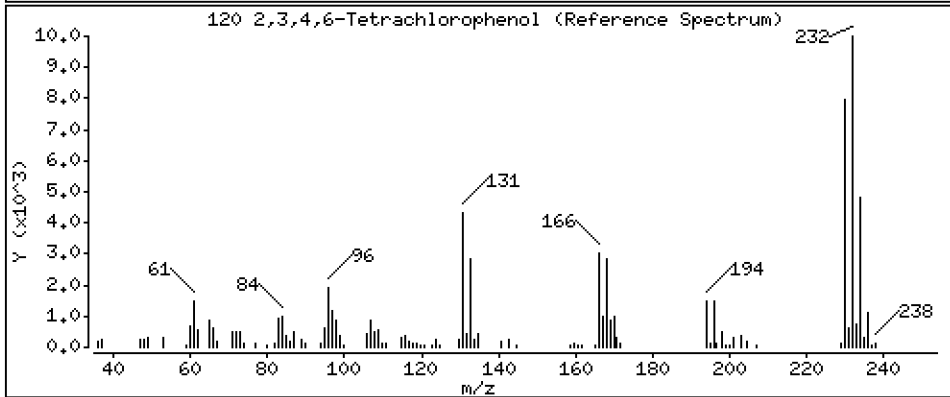
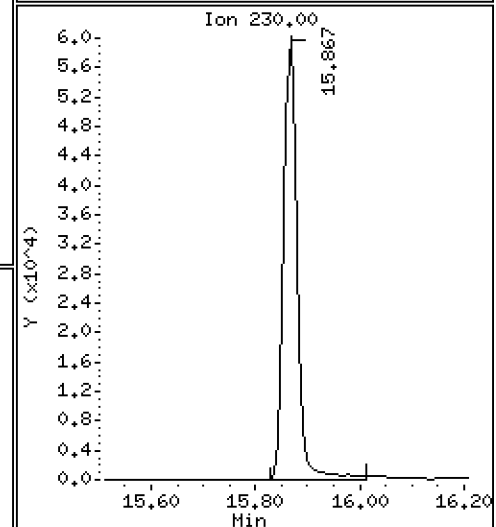
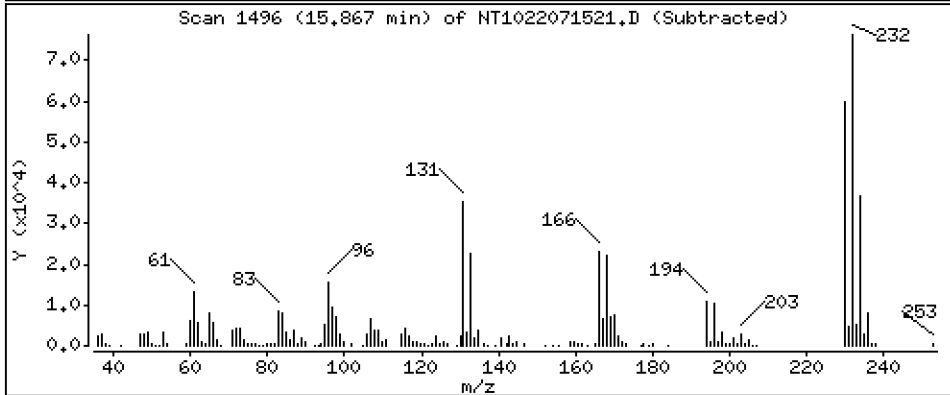
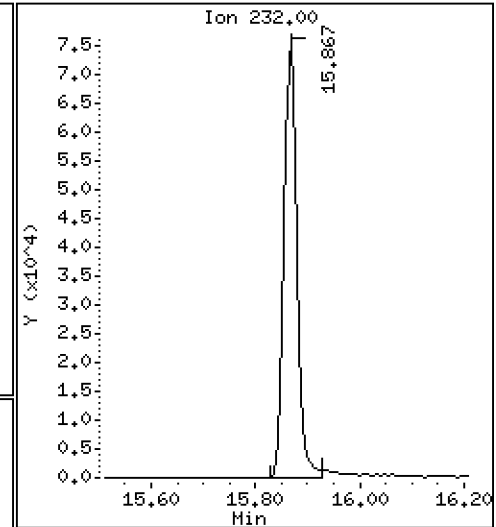
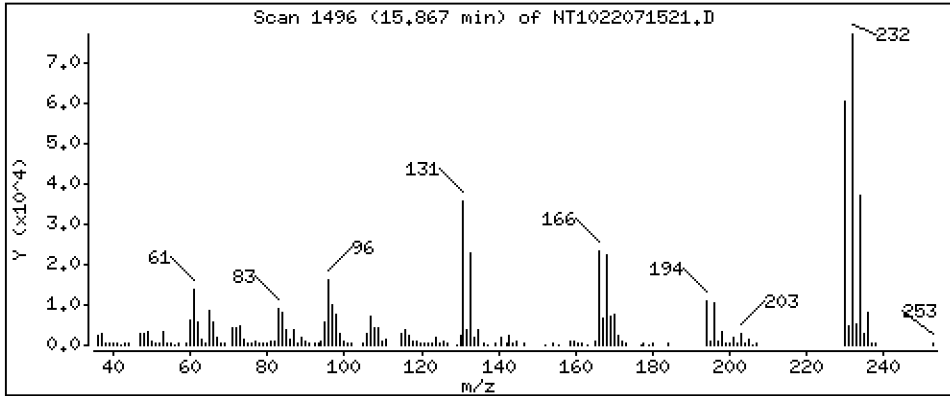
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,124 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071521.D
 Lab Smp Id: SKG0154-CCV1
 Inj Date : 16-JUL-2022 01:11
 Operator : VTS
 Smp Info : SKG0154-CCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.813	6.806	(0.756)	529271	7.58920	7.589
\$ 2 Phenol-d5	99		8.405	8.398	(0.932)	838563	8.10371	8.104
3 Phenol	94		8.428	8.421	(0.935)	465695	5.16464	5.165
\$ 5 2-Chlorophenol-d4	132		8.660	8.652	(0.961)	542563	7.63519	7.635
4 Bis(2-Chloroethyl)ether	93		8.559	8.552	(0.949)	307439	4.73756	4.738
6 2-Chlorophenol	128		8.691	8.683	(0.964)	398743	5.54685	5.547
7 1,3-Dichlorobenzene	146		8.946	8.939	(0.992)	380333	4.89163	4.892
* 8 1,4-Dichlorobenzene-d4	152		9.016	9.001	(1.000)	190988	4.00000	
9 1,4-Dichlorobenzene	146		9.039	9.032	(1.003)	315540	5.14845	5.148
\$ 10 1,2-Dichlorobenzene-d4	152		9.373	9.366	(1.040)	226272	5.16747	5.167
12 1,2-Dichlorobenzene	146		9.396	9.389	(1.042)	326114	5.01230	5.012
11 Benzyl alcohol	108		9.288	9.280	(1.030)	208094	5.79327	5.793
14 2,2'-oxybis(1-Chloropropane)	121		9.583	9.575	(1.063)	96457	6.26886	6.269 (M)
13 2-Methylphenol	108		9.536	9.529	(1.058)	285121	5.12852	5.129
17 Hexachloroethane	117		9.986	9.979	(1.108)	139605	5.10989	5.110
16 N-Nitroso-di-n-propylamine	70		9.847	9.831	(1.092)	182565	4.72175	4.722
15 4-Methylphenol	108		9.808	9.793	(1.088)	296844	4.99620	4.996
\$ 18 Nitrobenzene-d5	82		10.103	10.095	(0.879)	340428	5.08391	5.084
19 Nitrobenzene	77		10.141	10.134	(0.882)	337692	5.00352	5.004
20 Isophorone	82		10.584	10.584	(0.921)	529547	5.42384	5.424
21 2-Nitrophenol	139		10.767	10.759	(0.937)	241093	5.65557	5.656
22 2,4-Dimethylphenol	107		10.844	10.836	(0.943)	425877	8.22380	8.224
23 Bis(2-Chloroethoxy)methane	93		11.022	11.014	(0.959)	292014	4.97824	4.978
24 Benzoic acid	105		11.081	11.065	(0.964)	475607	17.2687	17.27
25 2,4-Dichlorophenol	162		11.243	11.234	(0.978)	569775	10.8258	10.83
26 1,2,4-Trichlorobenzene	180		11.411	11.403	(0.993)	263763	4.66889	4.669
* 27 Naphthalene-d8	136		11.496	11.488	(1.000)	629304	4.00000	
28 Naphthalene	128		11.542	11.535	(1.004)	850460	5.28044	5.280
29 4-Chloroaniline	127		11.673	11.666	(1.015)	789063	11.0955	11.10
30 Hexachlorobutadiene	225		11.897	11.890	(1.035)	142681	5.29411	5.294
31 4-Chloro-3-methylphenol	107		12.664	12.656	(1.102)	653127	10.2564	10.26
32 2-Methylnaphthalene	142		12.942	12.927	(1.126)	896612	5.60140	5.601
33 Hexachlorocyclopentadiene	237		13.406	13.399	(0.887)	21134	1.07633	1.076

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.577	13.569	(0.898)	465582	11.9574	11.96
35 2,4,5-Trichlorophenol	196	13.662	13.647	(0.904)	504379	10.8941	10.89
§ 36 2-Fluorobiphenyl	172	13.724	13.716	(0.908)	864620	5.57700	5.577
37 2-Chloronaphthalene	162	13.933	13.925	(0.922)	764316	5.59242	5.592
38 2-Nitroaniline	65	14.204	14.188	(0.940)	404533	11.0655	11.07
39 Dimethylphthalate	163	14.629	14.622	(0.968)	628416	5.23058	5.231
40 Acenaphthylene	152	14.807	14.800	(0.980)	992063	4.95376	4.954
41 2,6-Dinitrotoluene	165	14.769	14.761	(0.977)	307145	11.0076	11.01
* 42 Acenaphthene-d10	164	15.117	15.109	(1.000)	342594	4.00000	
43 3-Nitroaniline	138	15.055	15.048	(0.996)	406017	12.3605	12.36
44 Acenaphthene	153	15.186	15.179	(1.005)	543854	5.45843	5.458
45 2,4-Dinitrophenol	184	15.279	15.272	(1.011)	150512	11.8408	11.84
46 Dibenzofuran	168	15.519	15.511	(1.027)	885131	5.58992	5.590
47 4-Nitrophenol	109	15.434	15.419	(1.021)	103898	9.49322	9.493
48 2,4-Dinitrotoluene	165	15.588	15.581	(1.031)	431396	11.5675	11.57
50 Diethylphthalate	149	16.091	16.084	(1.064)	562433	5.45721	5.457
49 Fluorene	166	16.230	16.223	(1.074)	830815	4.39111	4.391
51 4-Chlorophenyl-phenylether	204	16.222	16.215	(1.073)	356482	4.29040	4.290
52 4-Nitroaniline	138	16.330	16.323	(1.080)	406516	12.3561	12.36
53 4,6-Dinitro-2-methylphenol	198	16.438	16.431	(0.905)	378438	16.2936	16.29
54 N-Nitrosodiphenylamine	169	16.477	16.469	(0.907)	479052	5.12456	5.125
§ 55 2,4,6-Tribromophenol	330	16.770	16.762	(1.109)	112237	7.19235	7.192
56 4-Bromophenyl-phenylether	248	17.225	17.217	(0.948)	232890	5.37706	5.377
57 Hexachlorobenzene	284	17.542	17.534	(0.965)	206034	5.21706	5.217
58 Pentachlorophenol	266	17.921	17.906	(0.986)	43530	4.78923	4.789
* 59 Phenanthrene-d10	188	18.168	18.161	(1.000)	594510	4.00000	
60 Phenanthrene	178	18.215	18.207	(1.003)	821496	5.25962	5.260
61 Anthracene	178	18.308	18.300	(1.008)	901133	5.41401	5.414
62 Carbazole	167	18.648	18.641	(1.026)	922045	6.00470	6.005
63 Di-n-butylphthalate	149	19.453	19.445	(1.071)	1225005	5.13266	5.133
64 Fluoranthene	202	20.613	20.606	(0.886)	951742	6.58292	6.583
65 Pyrene	202	21.039	21.031	(0.905)	659266	5.24830	5.248
§ 66 Terphenyl-d14	244	21.333	21.326	(0.917)	399128	5.86059	5.861
67 Butylbenzylphthalate	149	22.270	22.262	(0.958)	265199	6.72668	6.727
68 Benzo(a)anthracene	228	23.222	23.215	(0.999)	336217	4.06569	4.066
* 69 Chrysene-d12	240	23.253	23.246	(1.000)	195156	4.00000	
70 3,3'-Dichlorobenzidine	252	23.184	23.176	(0.997)	337461	12.5230	12.52
71 Chrysene	228	23.300	23.292	(1.002)	195189	3.44179	3.442
72 bis(2-Ethylhexyl)phthalate	149	23.315	23.308	(0.959)	178291	5.81680	5.817
* 134 Di-n-octylphthalate-d4	153	24.314	24.306	(1.000)	277306	4.00000	
73 Di-n-octylphthalate	149	24.322	24.314	(1.000)	331689	5.26249	5.262
74 Benzo(b)fluoranthene	252	25.119	25.112	(0.970)	193505	4.44521	4.445
75 Benzo(k)fluoranthene	252	25.165	25.158	(0.972)	193044	4.61179	4.612
76 Benzo(a)pyrene	252	25.777	25.762	(0.996)	152584	4.28271	4.283
* 77 Perylene-d12	264	25.893	25.878	(1.000)	96120	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.559	28.544	(1.103)	187800	4.93686	4.937
79 Dibenzo(a,h)anthracene	278	28.575	28.560	(1.104)	151037	5.18649	5.186
80 Benzo(g,h,i)perylene	276	29.352	29.329	(1.134)	131043	4.30946	4.309
90 N-Nitrosodimethylamine	74	4.627	4.628	(0.513)	366899	8.04080	8.041
91 Aniline	93	8.475	8.467	(0.940)	805218	8.92870	8.929
93 Benzidine	184	20.853	20.846	(0.897)	247505	8.59663	8.597
103 Pyridine	79	4.643	4.651	(0.515)	453589	3.50673	3.507
105 1-methylnaphthalene	142	13.159	13.151	(1.145)	841854	5.35322	5.353
111 Azobenzene (1,2-DP-Hydrazine)	77	16.546	16.539	(1.095)	670265	4.89865	4.899

Compounds	QUANT SIG	CONCENTRATIONS					
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====	=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252	25.165	25.112	(0.972)	367239	9.04796	9.048
120 2,3,4,6-Tetrachlorophenol	232	15.867	15.859	(1.050)	123444	4.12374	4.124

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071521.D Calibration Time: 12:41
 Lab Smp Id: SKG0154-CCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	190988	-5.23
27 Naphthalene-d8	649654	324827	1299308	629304	-3.13
42 Acenaphthene-d10	370460	185230	740920	342594	-7.52
59 Phenanthrene-d10	647298	323649	1294596	594510	-8.16
69 Chrysene-d12	221116	110558	442232	195156	-11.74
134 Di-n-octylphthala	319144	159572	638288	277306	-13.11
77 Perylene-d12	105234	52617	210468	96120	-8.66

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.02	0.17
27 Naphthalene-d8	11.49	10.99	11.99	11.50	0.06
42 Acenaphthene-d10	15.11	14.61	15.61	15.12	0.05
59 Phenanthrene-d10	18.16	17.66	18.66	18.17	0.04
69 Chrysene-d12	23.25	22.75	23.75	23.25	0.03
134 Di-n-octylphthala	24.31	23.81	24.81	24.31	0.03
77 Perylene-d12	25.88	25.38	26.38	25.89	0.06

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

REVIEW SUMMARY FOR FILE - NT1022071521.D

Lab ID: SKG0154-CCV1
nt10.i, ABN.m, 16-JUL-2022 01:11

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1022071502.D

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

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

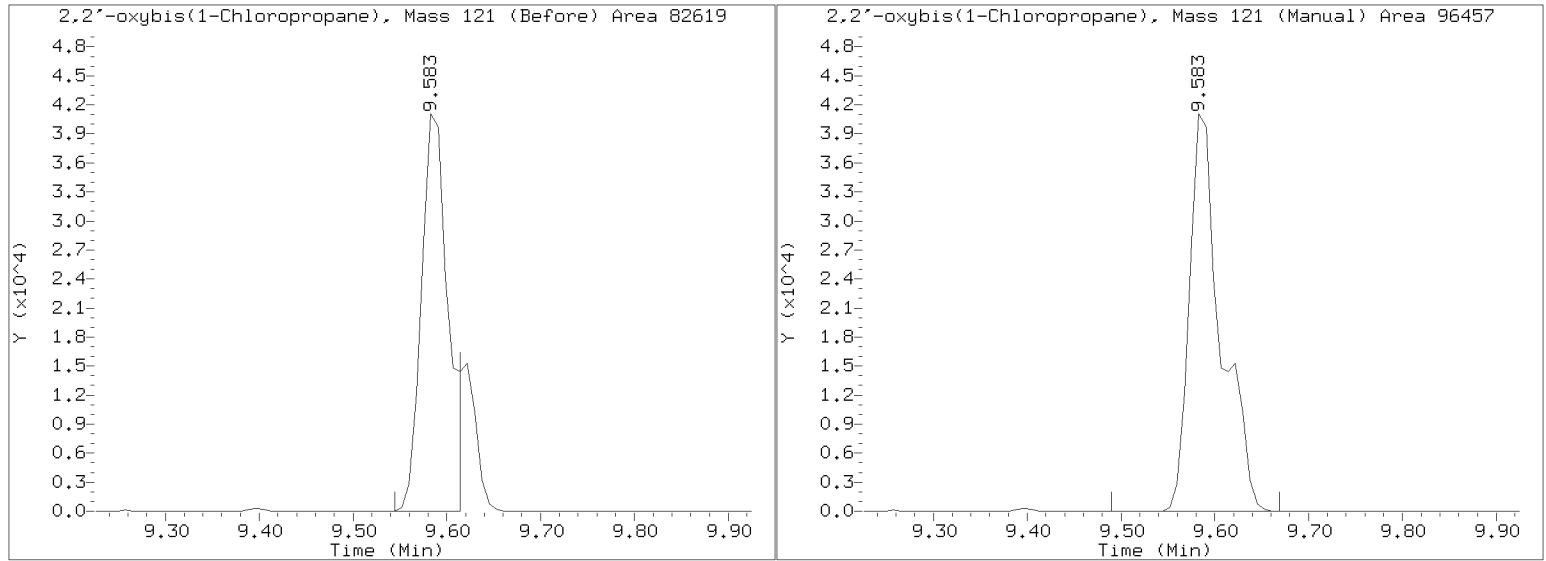
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071521.D

Injection Date: 16-JUL-2022 01:11

Lab ID:SKG0154-CCV1 Client ID:

Report Date: 07/16/2022 09:04





**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071503.D

Calibration Date: 06/23/2022

Sequence: SKG0154

Injection Date: 07/15/22

Lab Sample ID: SKG0154-LCV1

Injection Time: 13:28

Sequence Name: ABN 0.5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Naphthalene	A	0.50000	0.6	1.0237250	1.1350370		10.9	+/-50
2-Methylnaphthalene	A	0.50000	0.5	1.0174370	1.0031870		-1.4	+/-50
Acenaphthene	A	0.50000	0.6	1.1633080	1.3098100		12.6	+/-50
Pentachlorophenol	A	1.0000	0.2	0.0462824	0.0090709		-84.9	+/-50
Phenanthrene	A	0.50000	0.6	1.0508770	1.1785260		12.1	+/-50
Fluoranthene	A	0.50000	0.7	2.5859780	4.0735610		44.1	+/-50
Benzo(a)anthracene	A	0.50000	0.6	1.6949770	1.9656740		16.0	+/-50
Chrysene	A	0.50000	0.4	1.1695310	0.9865979		-12.3	+/-50
Benzo(b)fluoranthene	A	0.50000	0.5	1.8115340	1.9335520		6.7	+/-50
Benzo(k)fluoranthene	A	0.50000	0.5	1.7419410	1.6749920		-3.8	+/-50
Benzo(a)pyrene	A	0.50000	0.5	1.4826420	1.4524540		-2.0	+/-50
Indeno(1,2,3-cd)pyrene	A	0.50000	0.5	1.5830350	1.7163180		8.4	+/-50
Dibenzo(a,h)anthracene	A	0.50000	0.6	1.2118700	1.3925320		14.9	+/-50
1-Methylnaphthalene	A	0.50000	0.5	0.9995882	0.9097192		-9.0	+/-50
2-Fluorophenol	A	0.75000	0.845	1.4606150	1.6449830		12.6	+/-50
Phenol-d5	A	0.75000	0.699	2.1672350	2.0187860		-6.8	+/-50
2-Chlorophenol-d4	A	0.75000	0.830	1.4882780	1.6462390		10.6	+/-50
1,2-Dichlorobenzene-d4	A	0.50000	0.571	0.9170783	1.0471020		14.2	+/-50
Nitrobenzene-d5	A	0.50000	0.531	0.4256249	0.4517930		6.1	+/-50
2-Fluorobiphenyl	A	0.50000	0.604	1.8101110	2.1862100		20.8	+/-50
2,4,6-Tribromophenol	A	0.75000	0.610	0.1582114	0.1467508		-18.7	+/-50
p-Terphenyl-d14	A	0.50000	0.919	1.3958840	2.5651480		83.8	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220715.6\NT1022071503.D

Date: 15-JUL-2022 13:28

Client ID:

Sample Info: SKC0154-LCW1

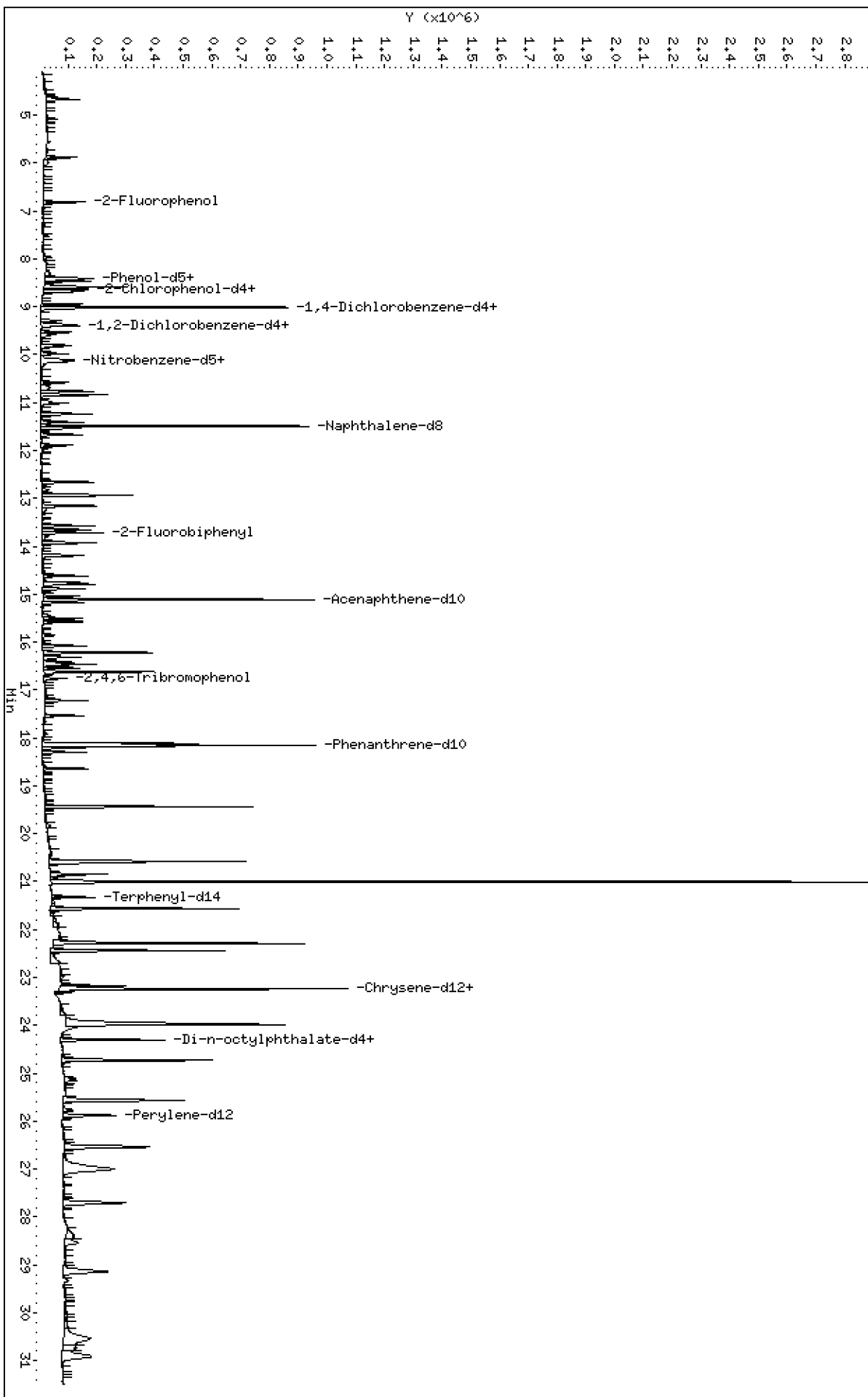
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

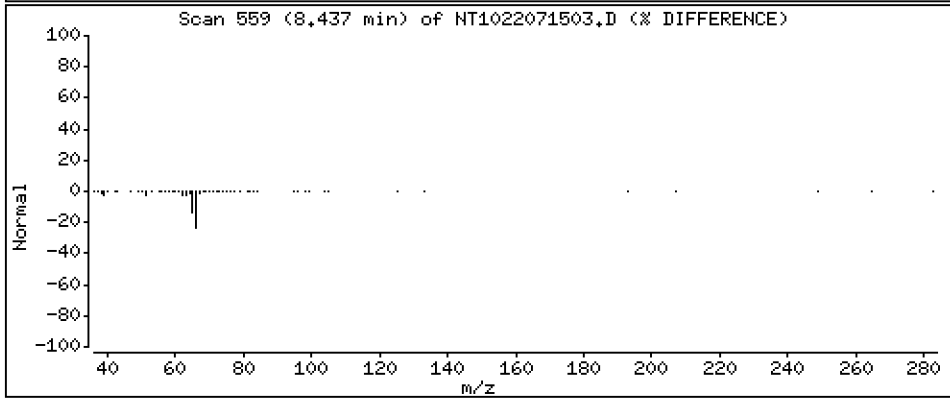
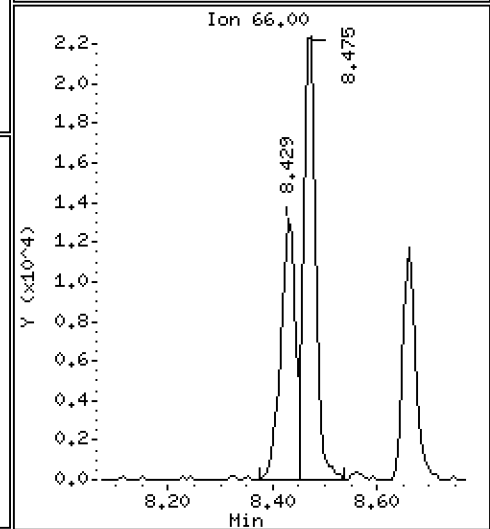
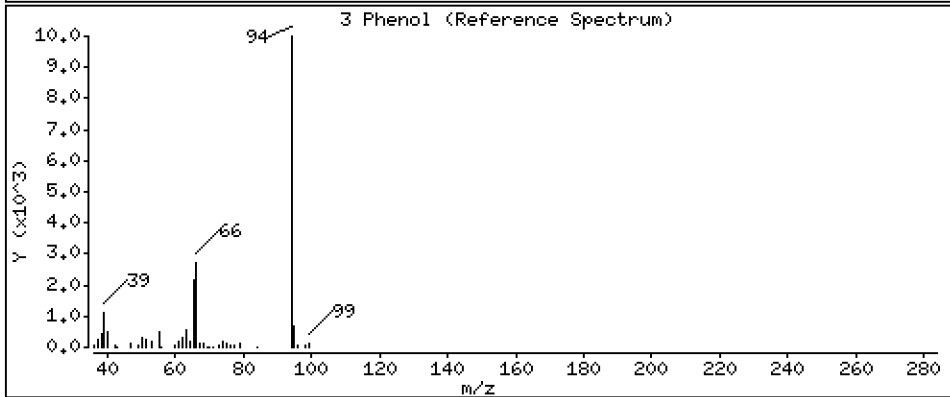
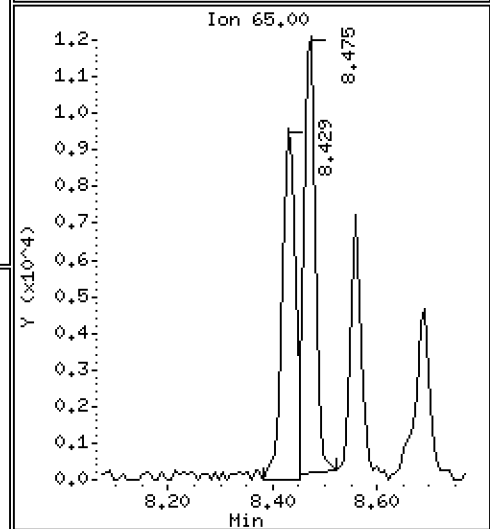
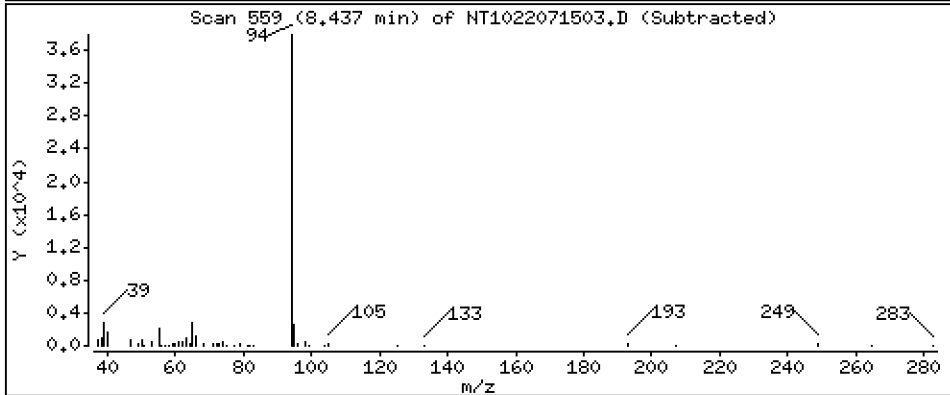
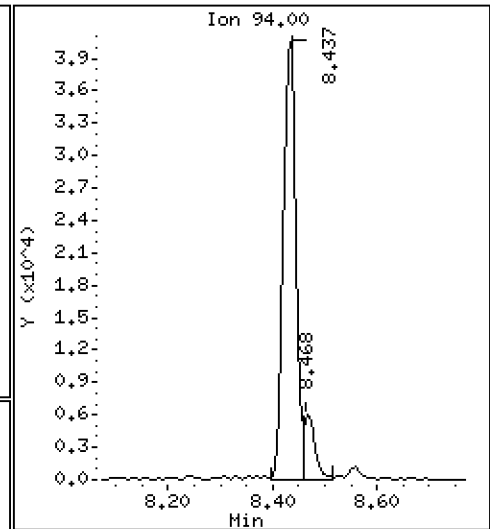
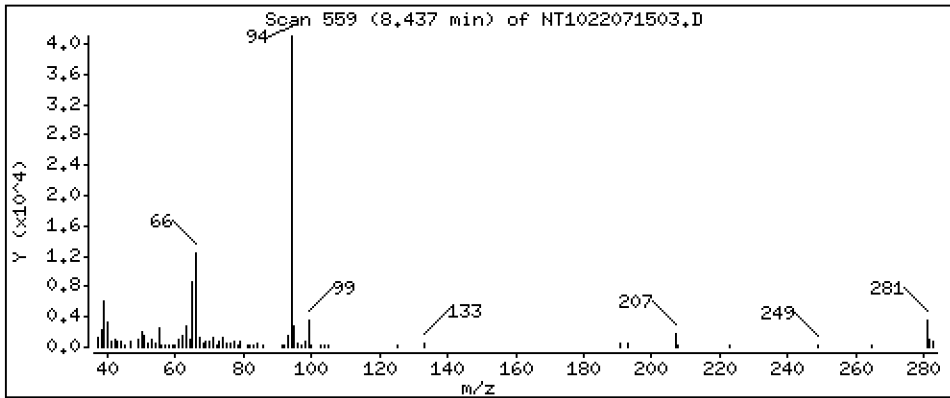
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,5505 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

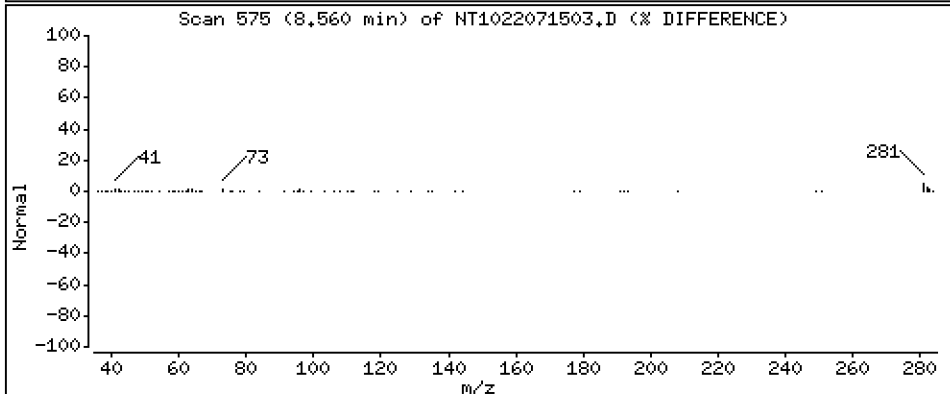
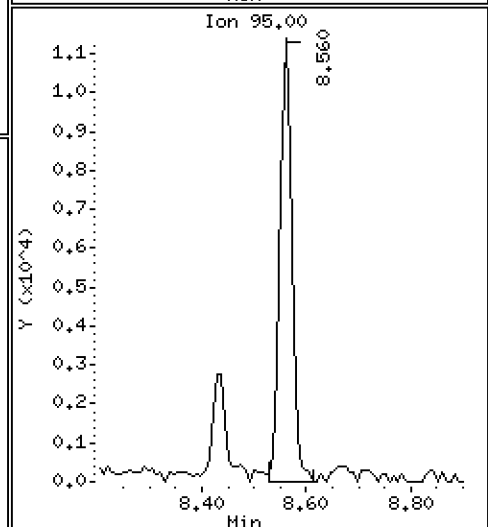
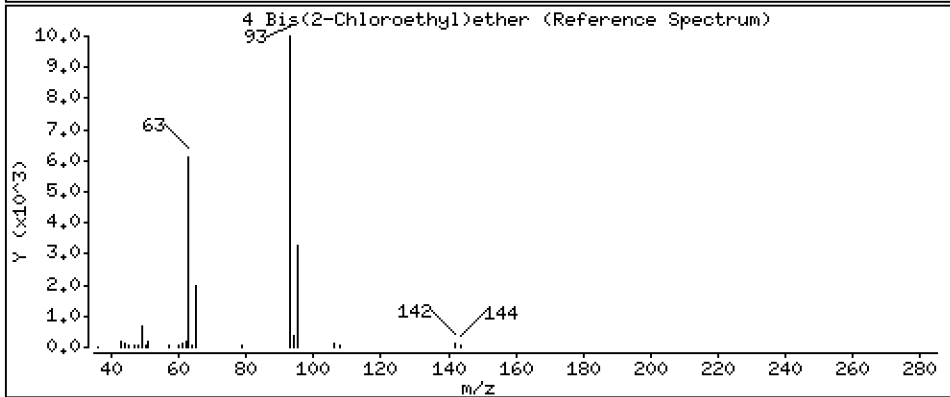
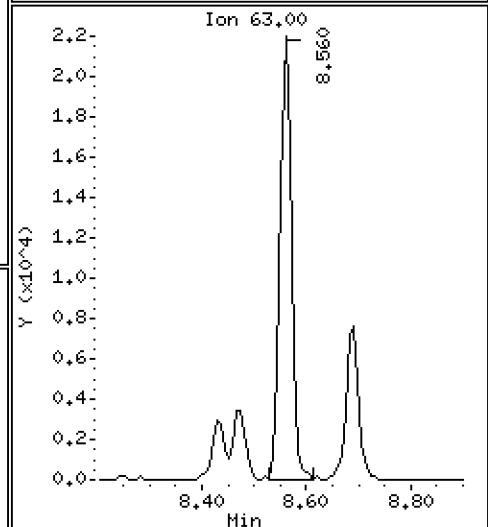
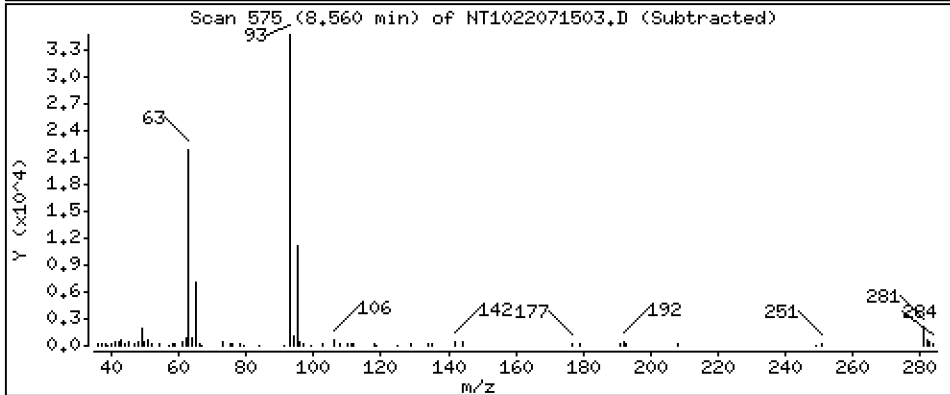
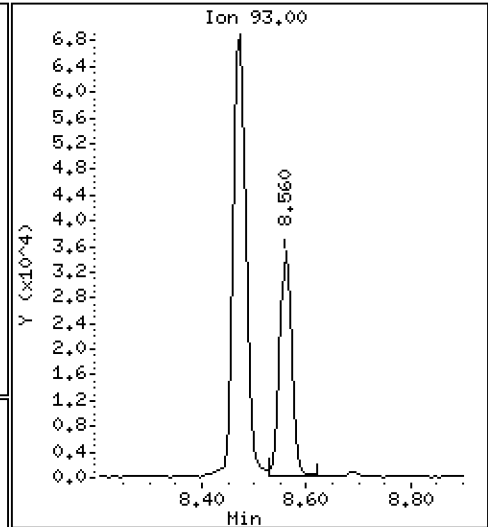
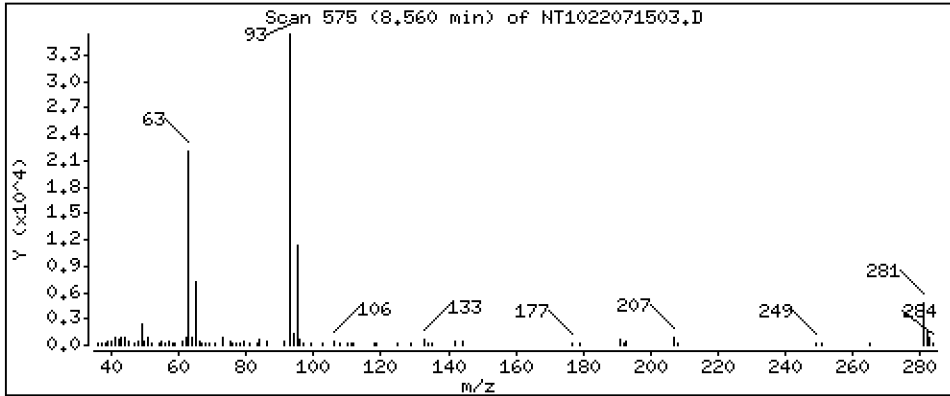
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,6186 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

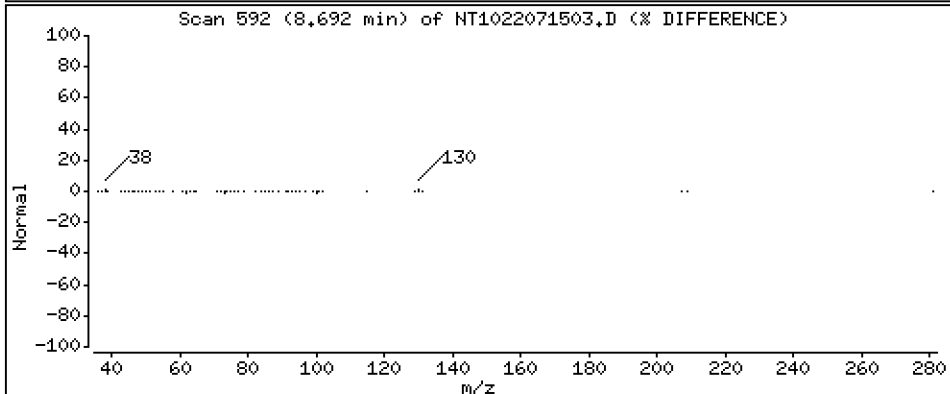
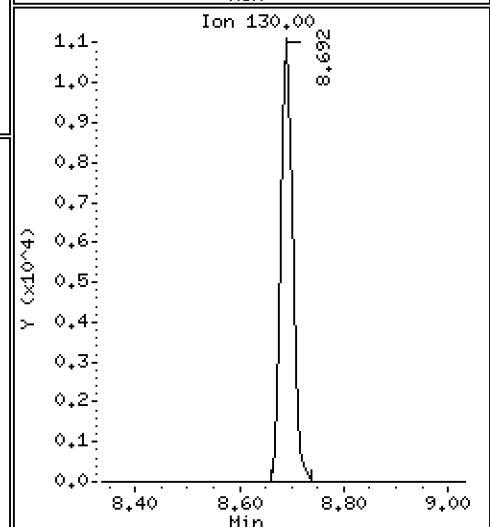
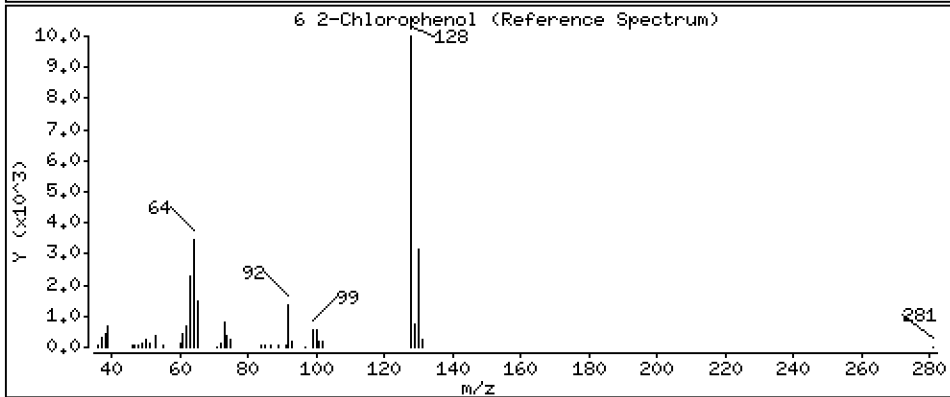
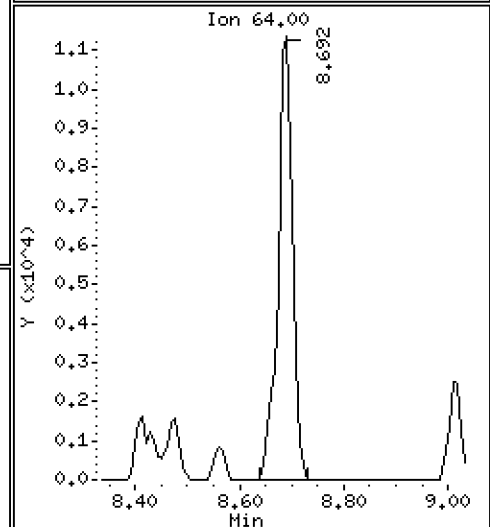
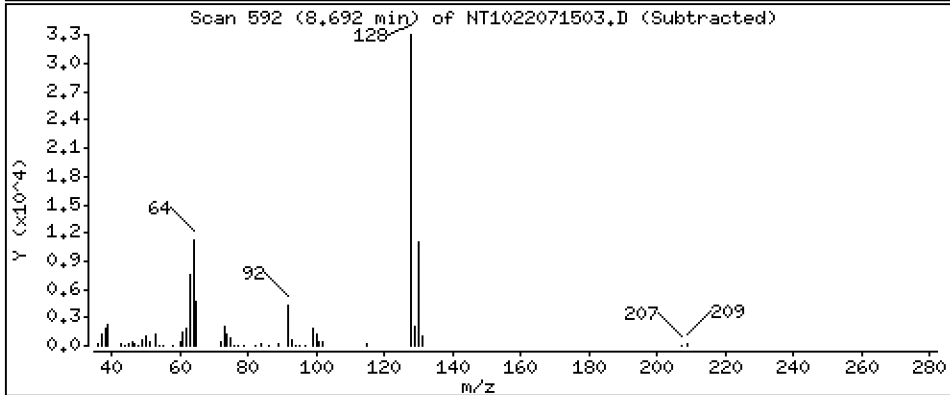
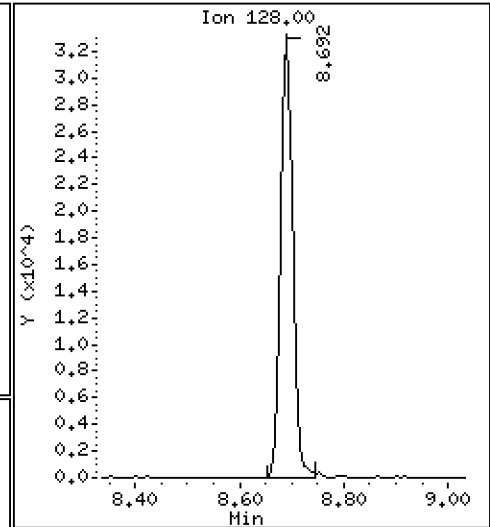
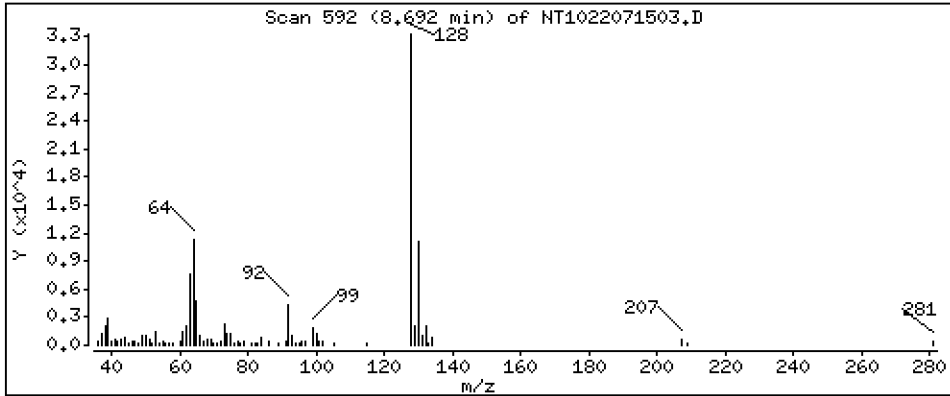
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,5288 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

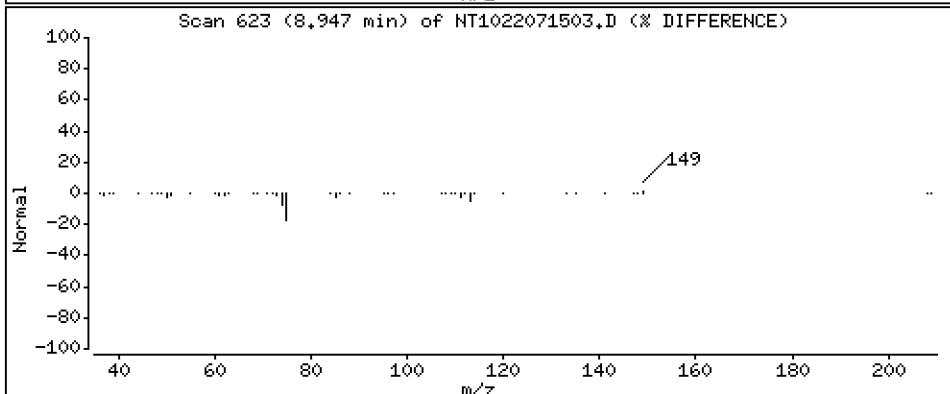
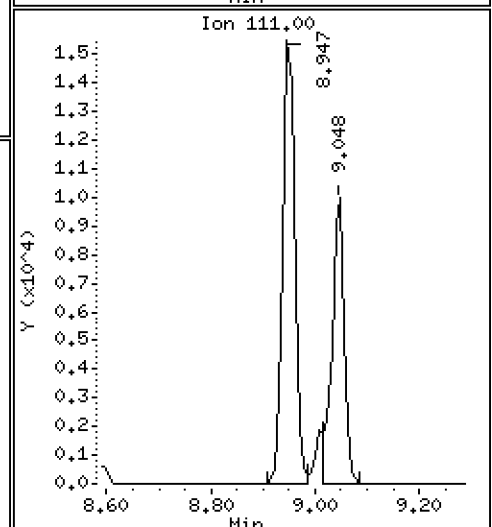
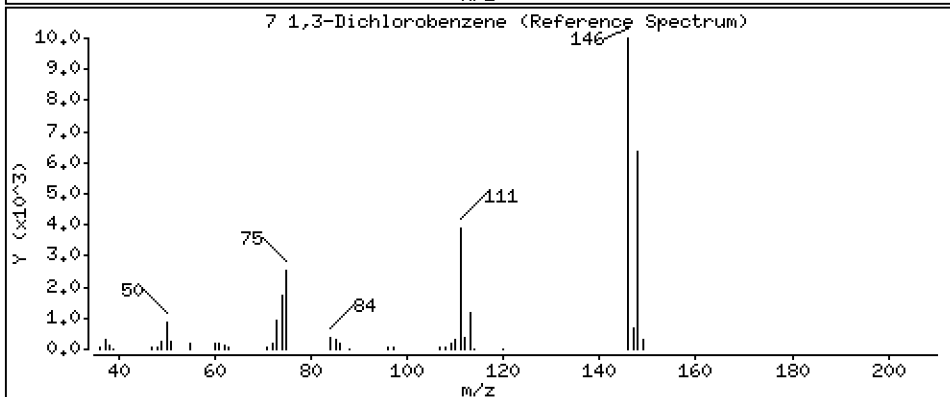
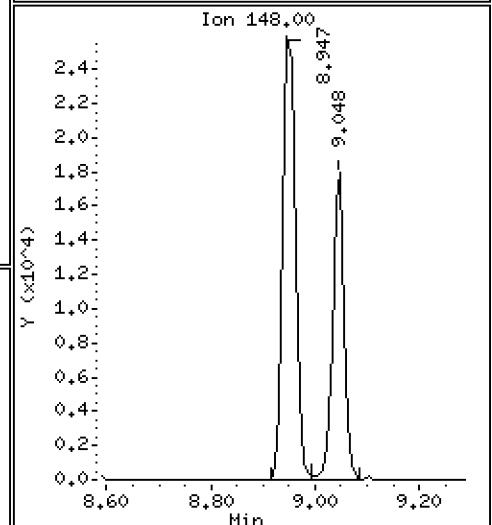
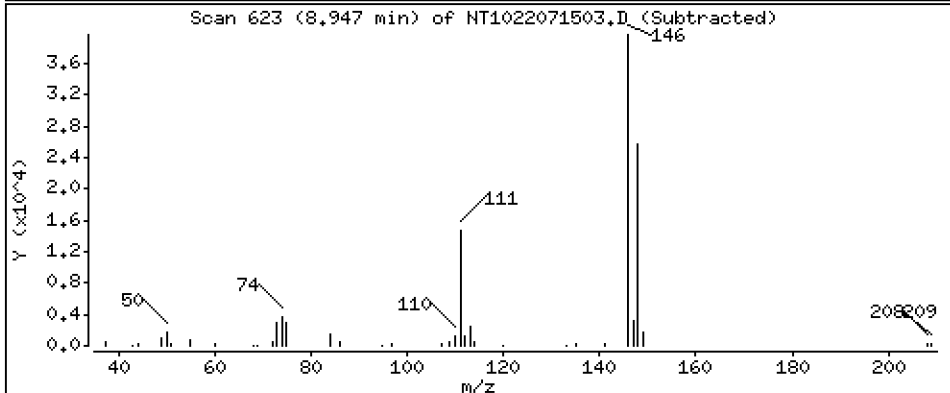
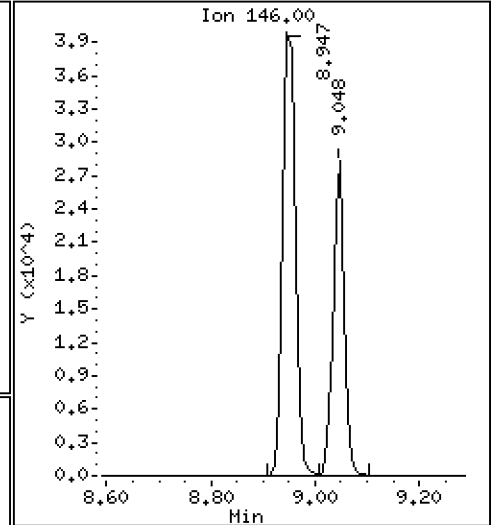
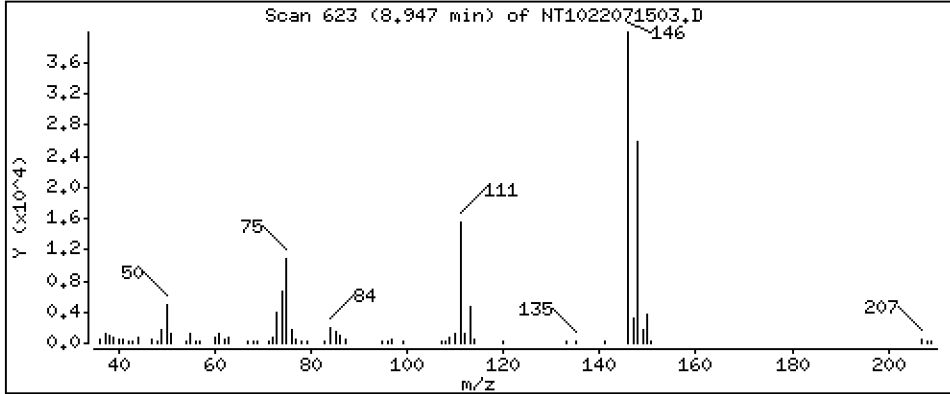
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.6211 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

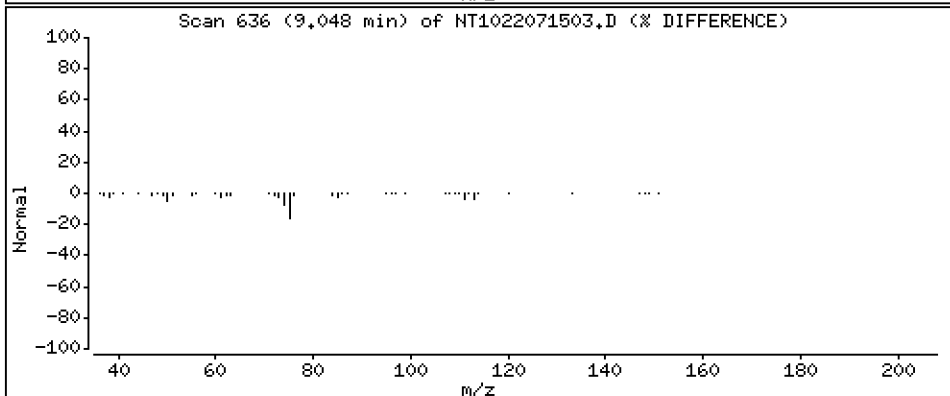
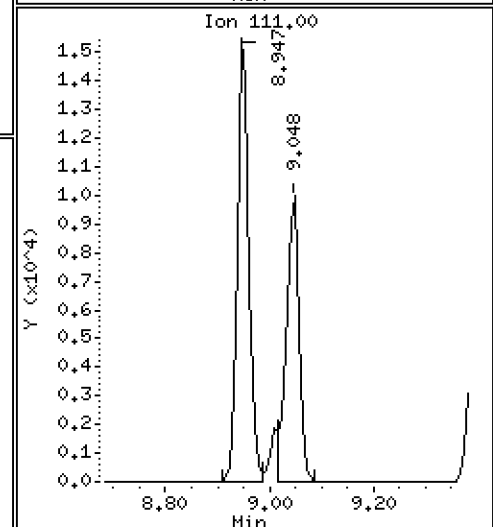
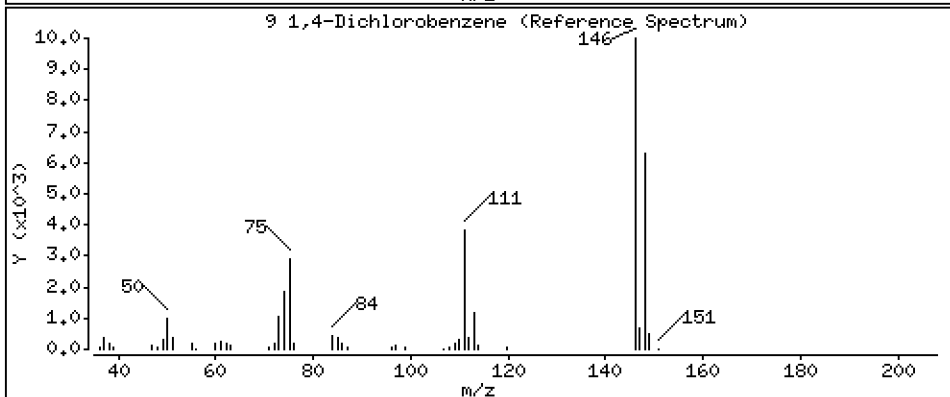
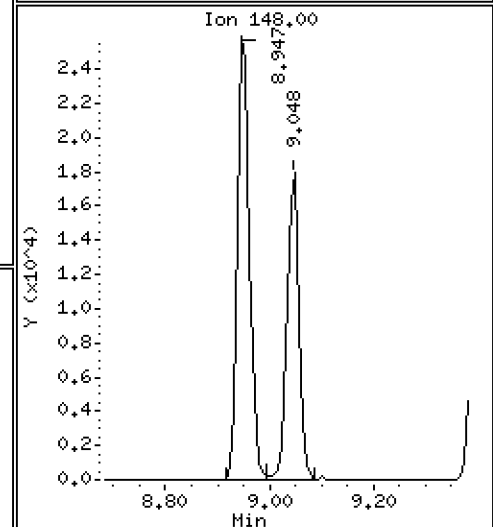
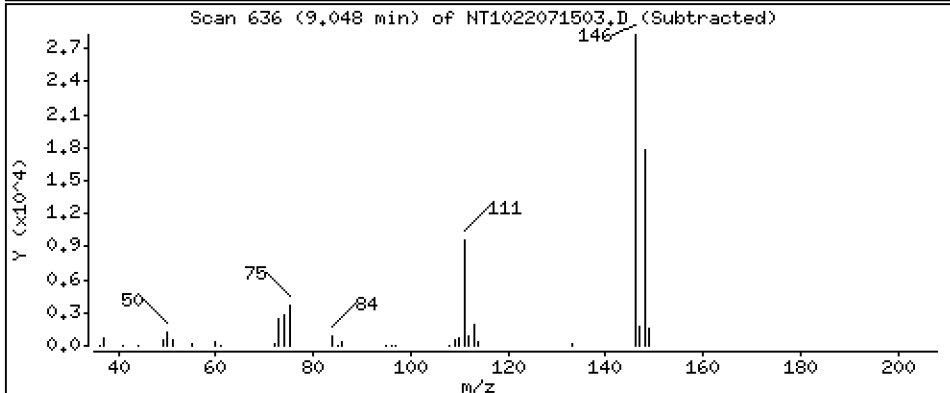
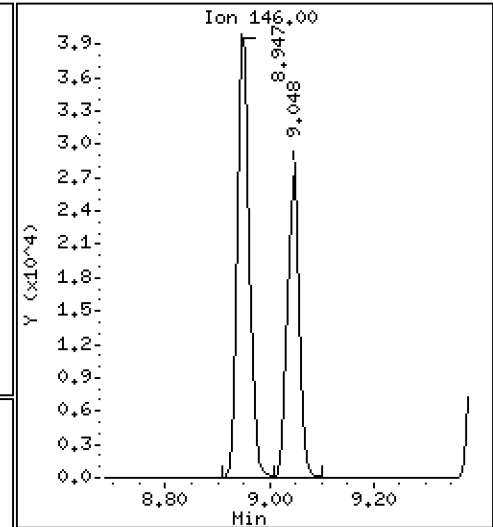
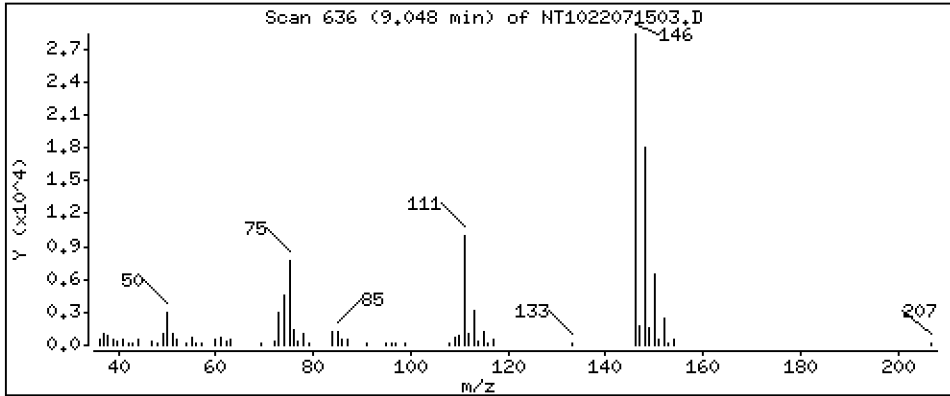
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 0.5152 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

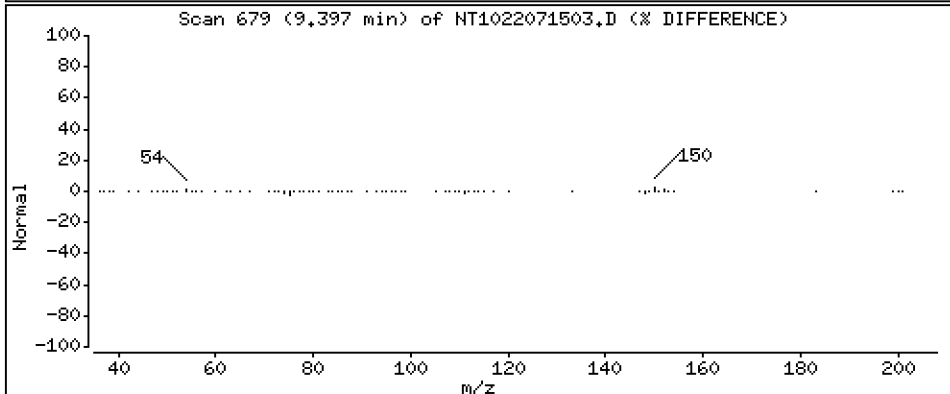
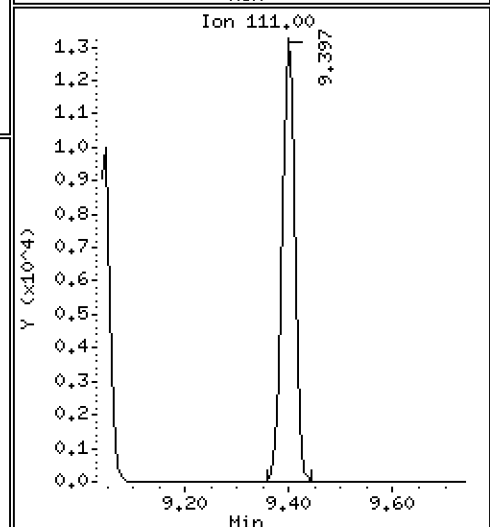
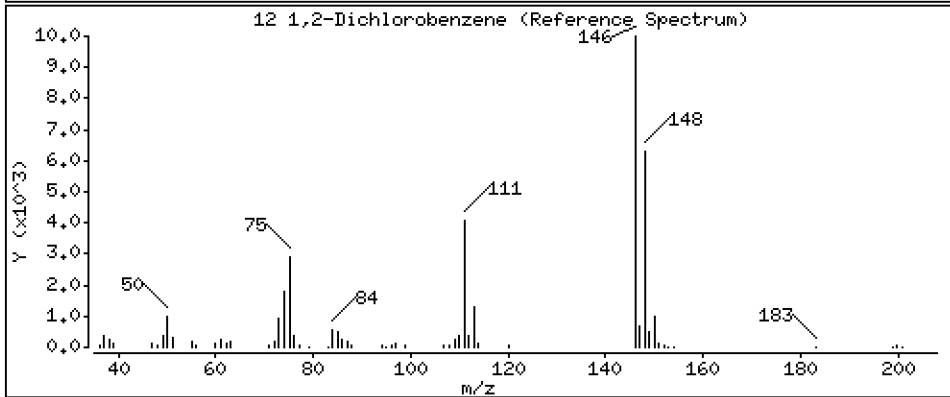
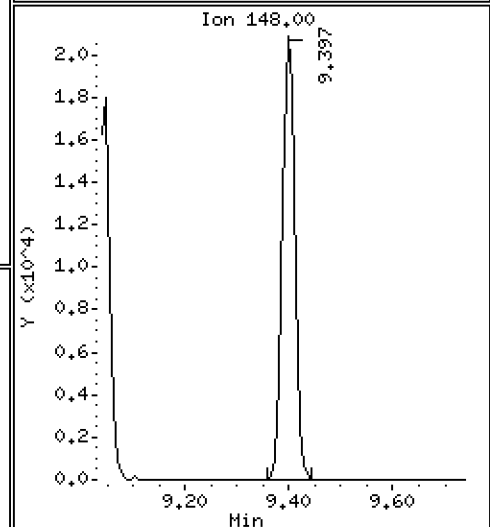
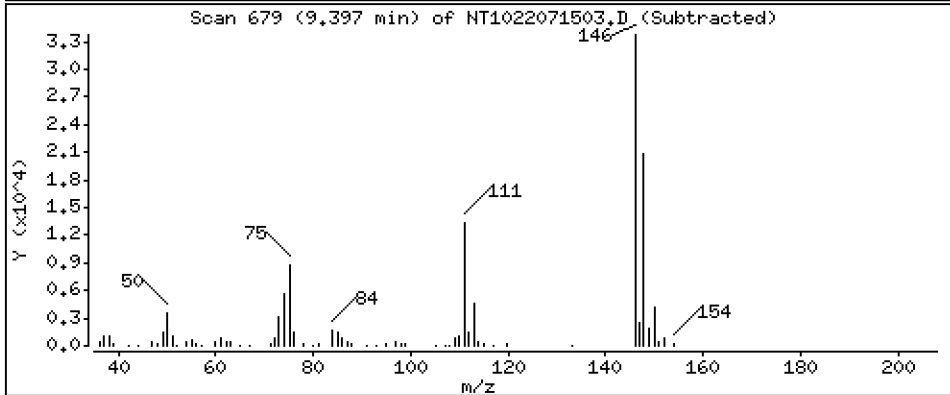
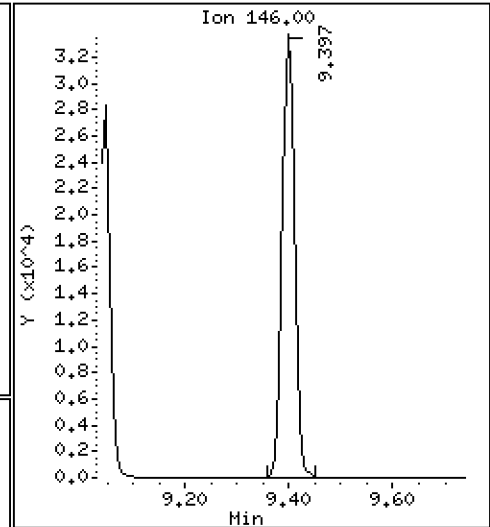
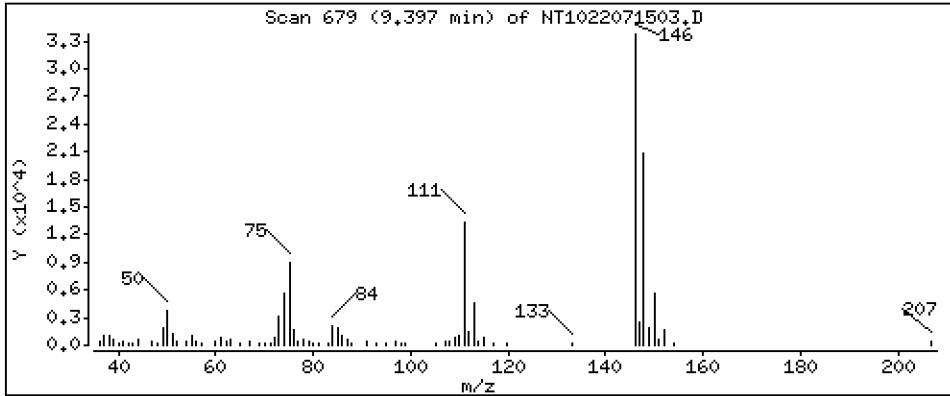
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.6121 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

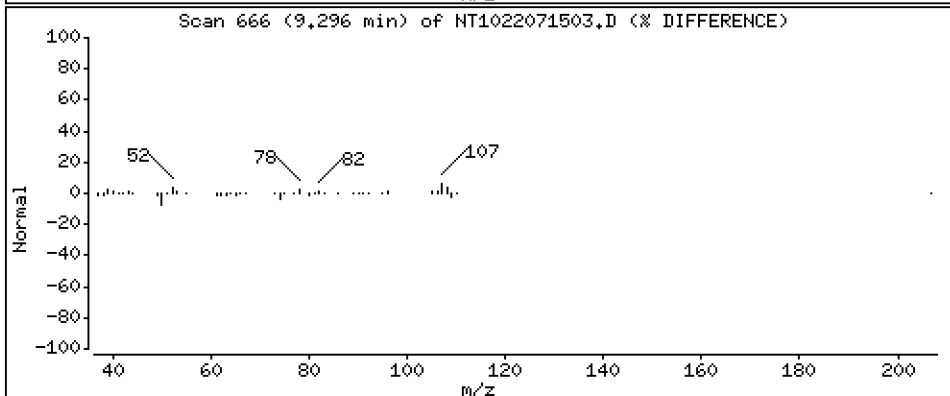
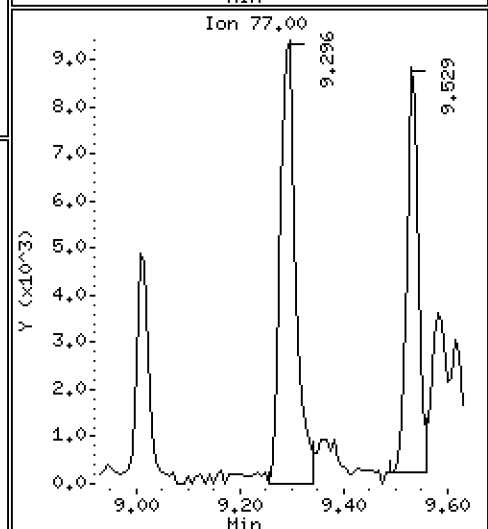
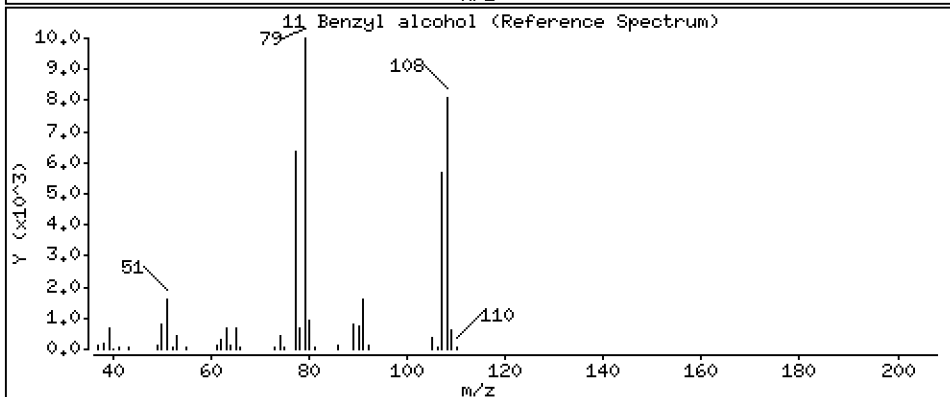
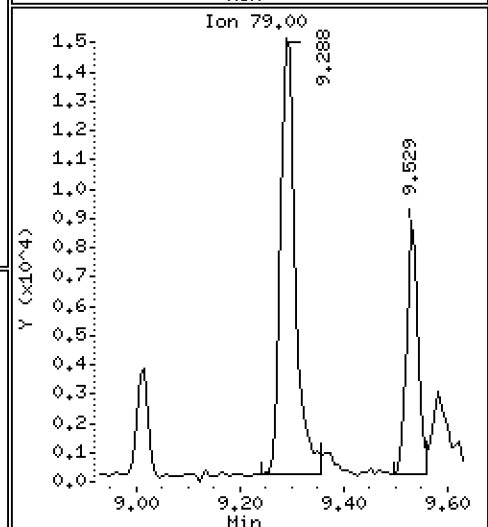
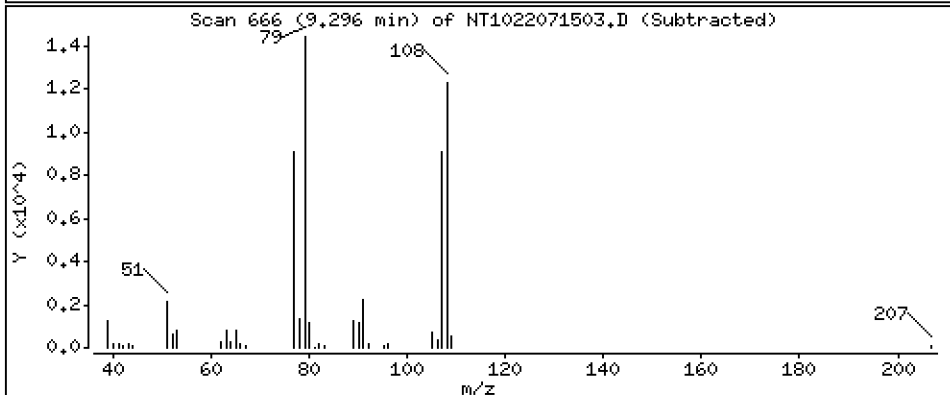
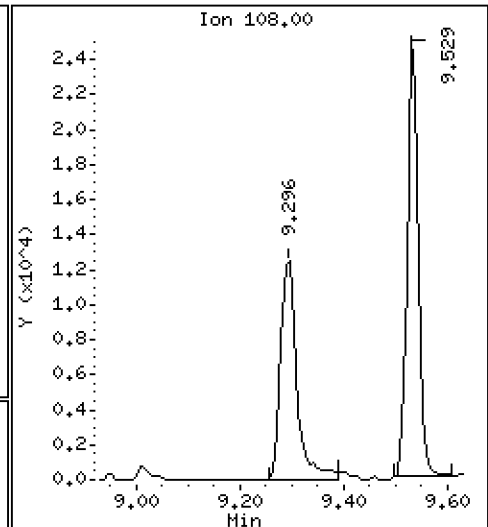
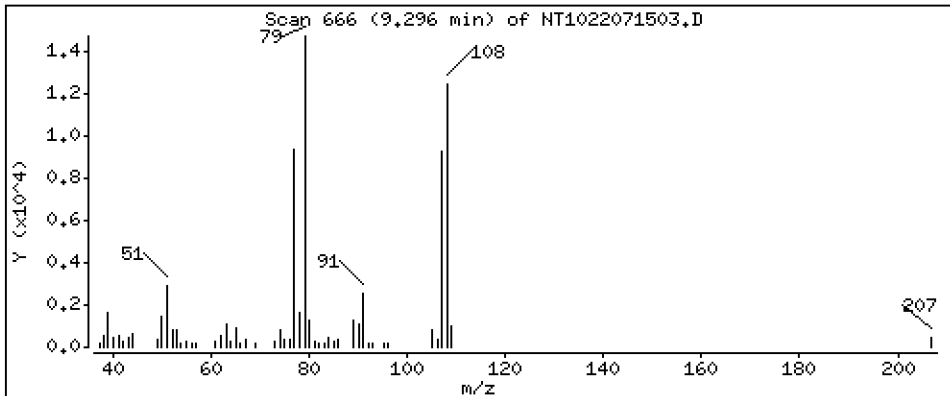
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,5570 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

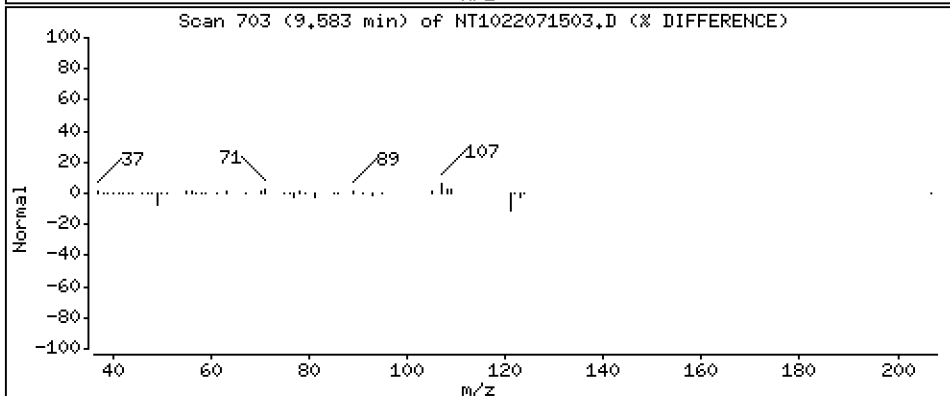
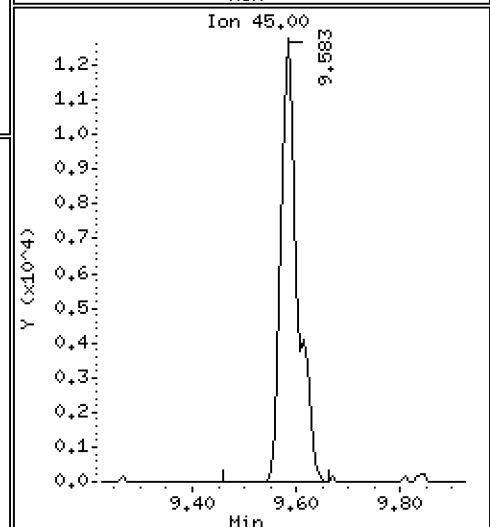
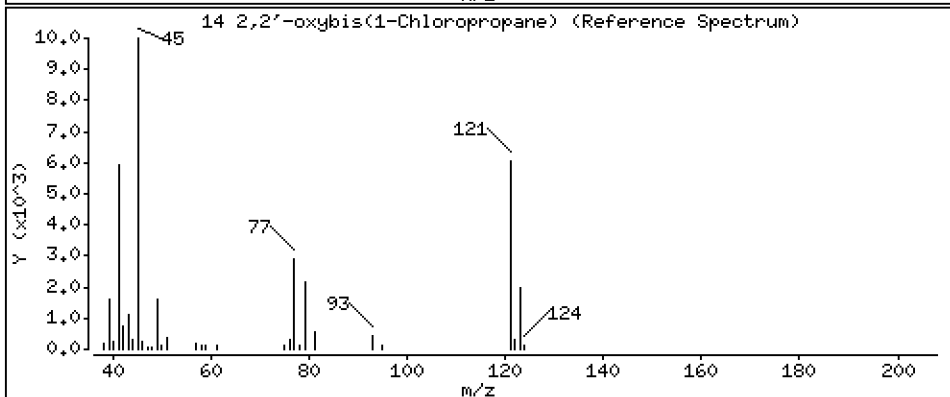
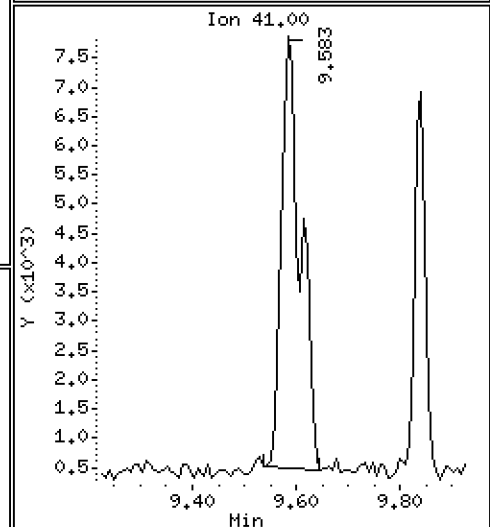
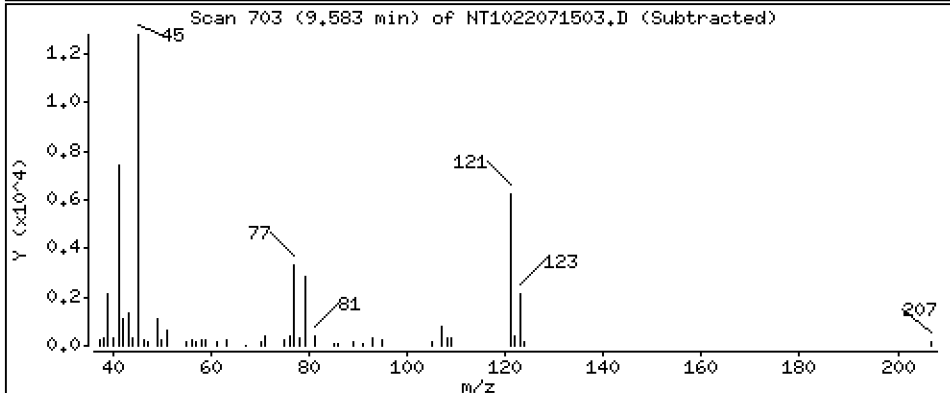
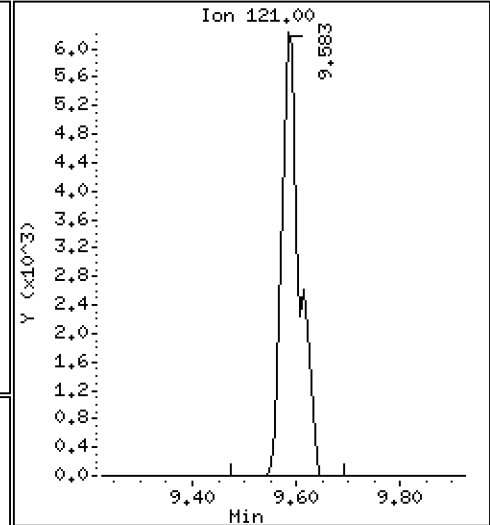
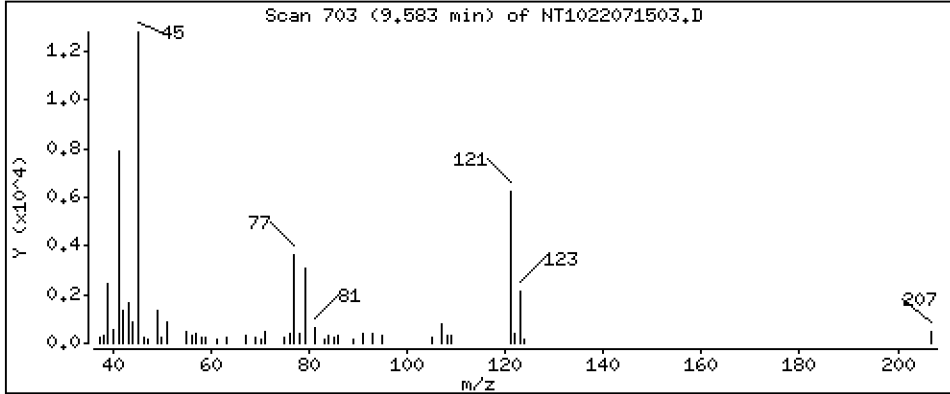
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,7305 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

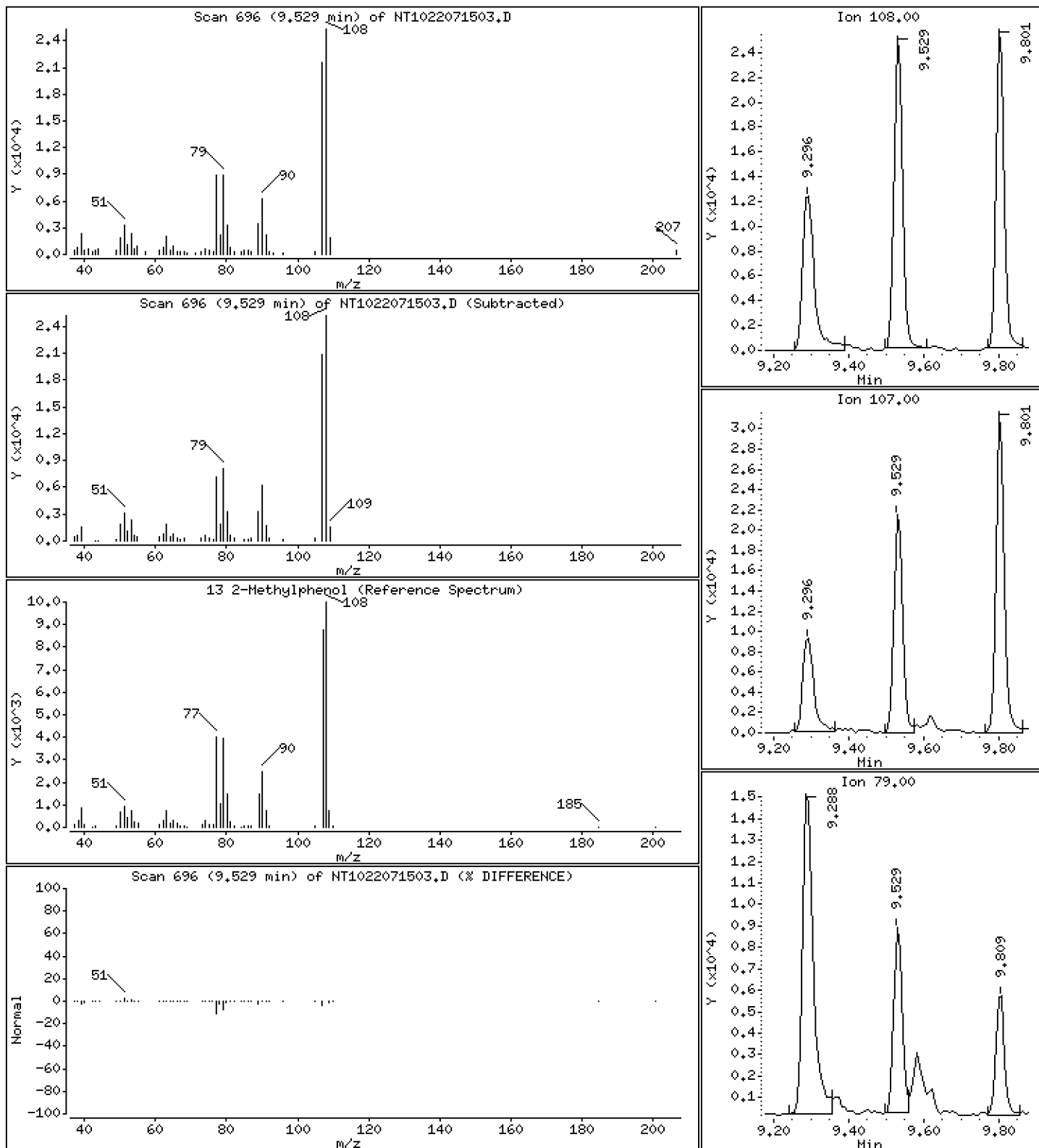
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.4978 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

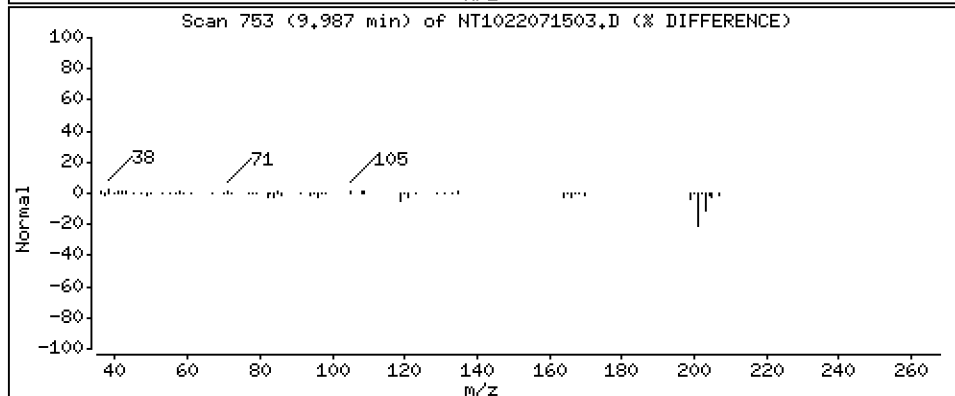
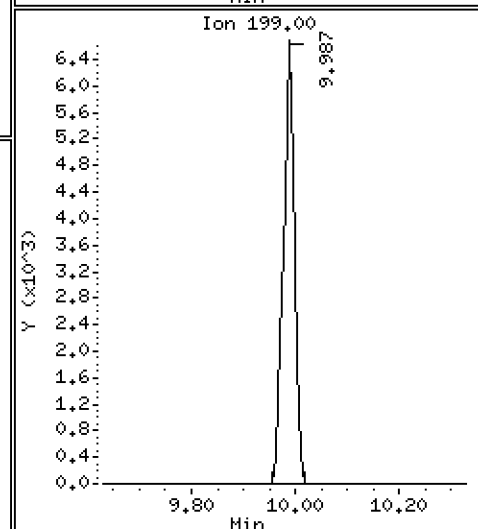
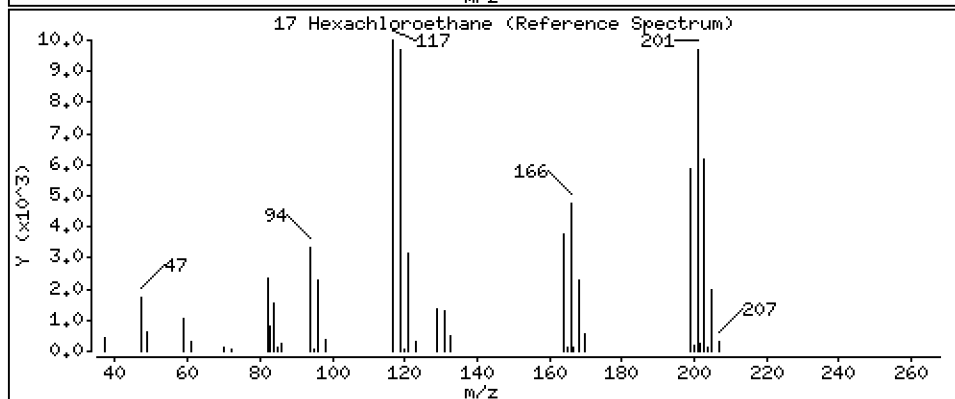
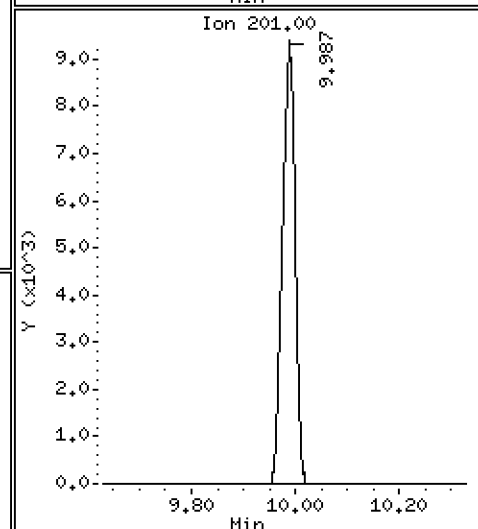
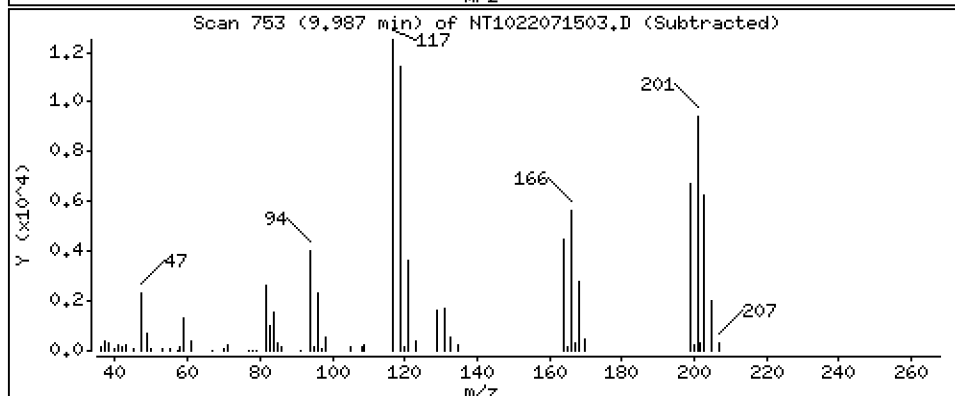
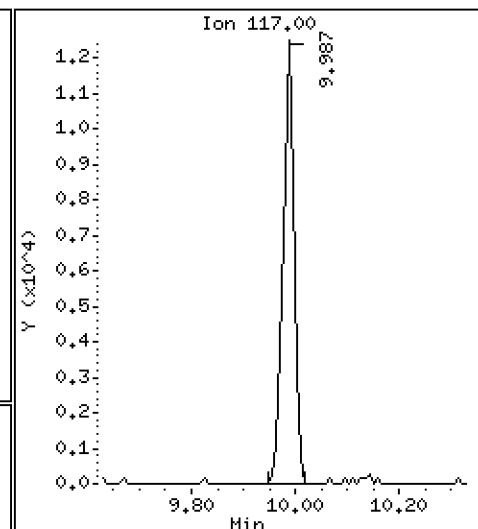
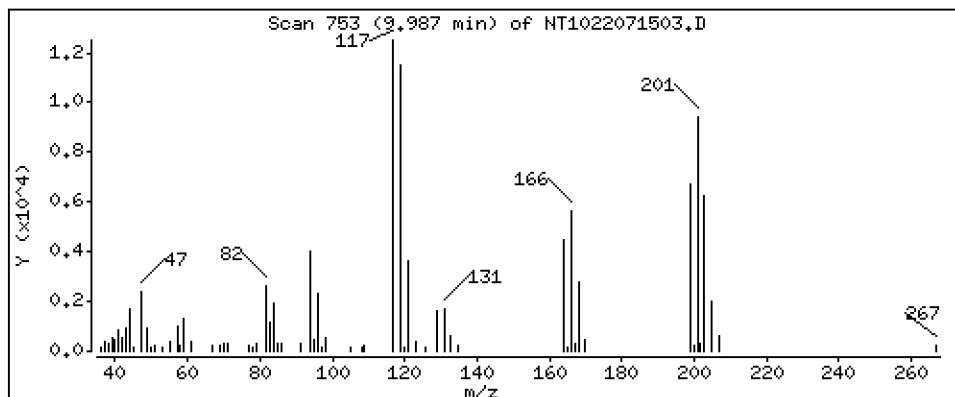
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,4938 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

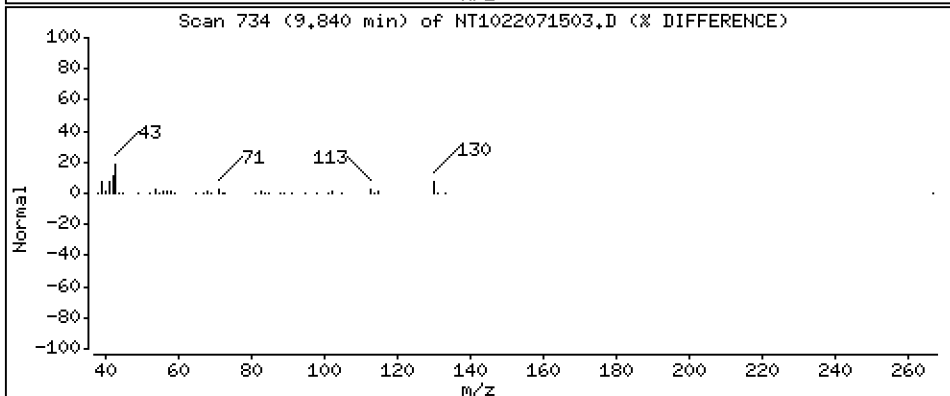
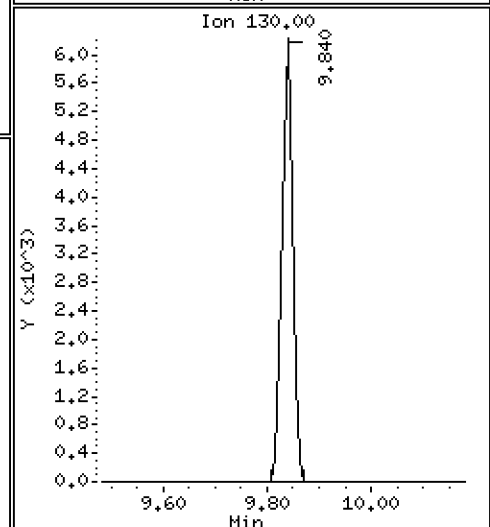
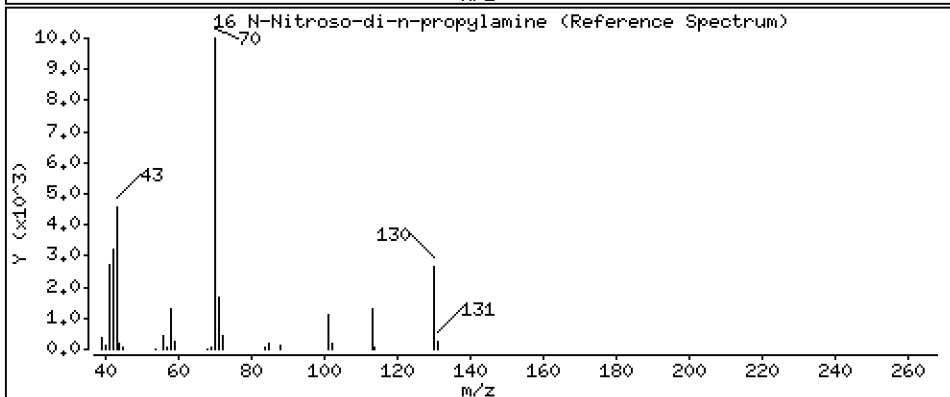
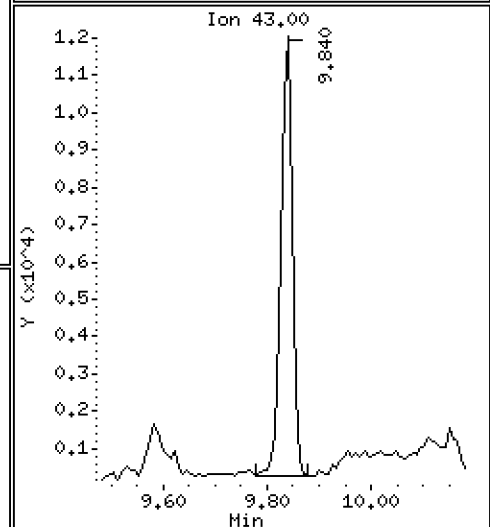
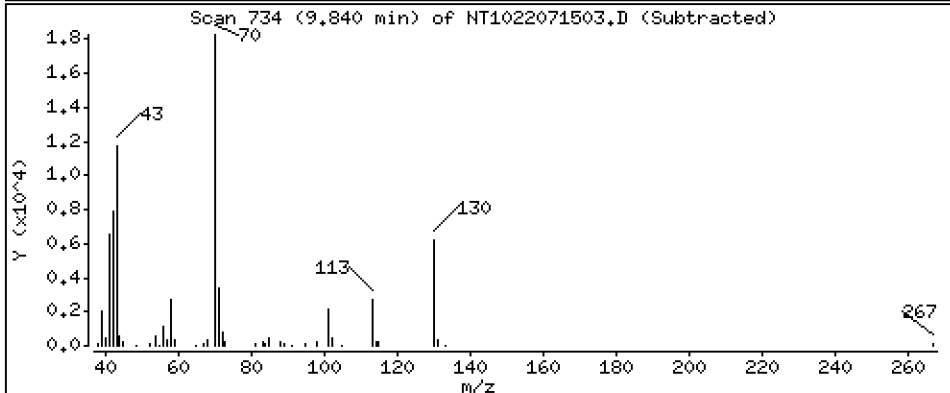
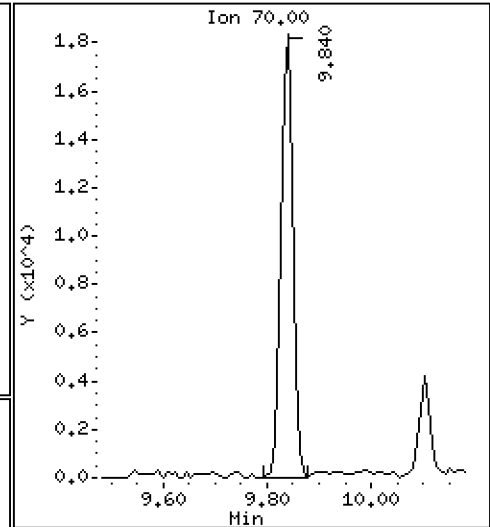
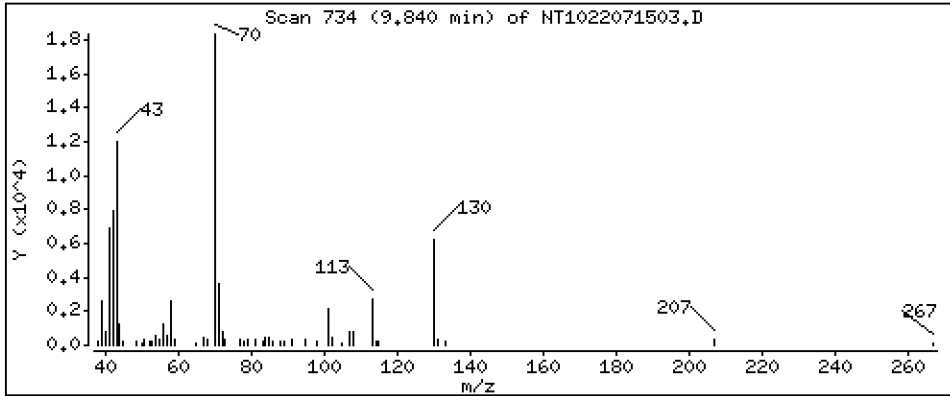
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,5534 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

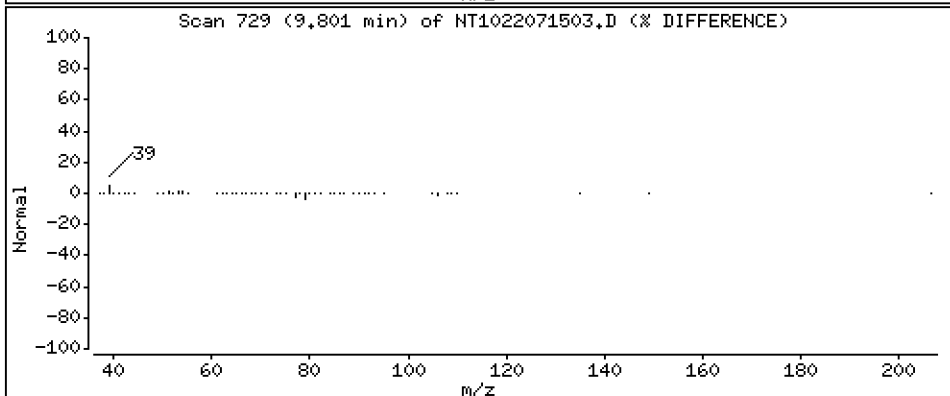
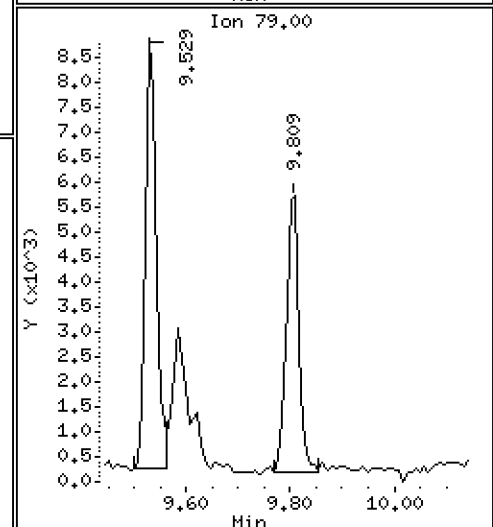
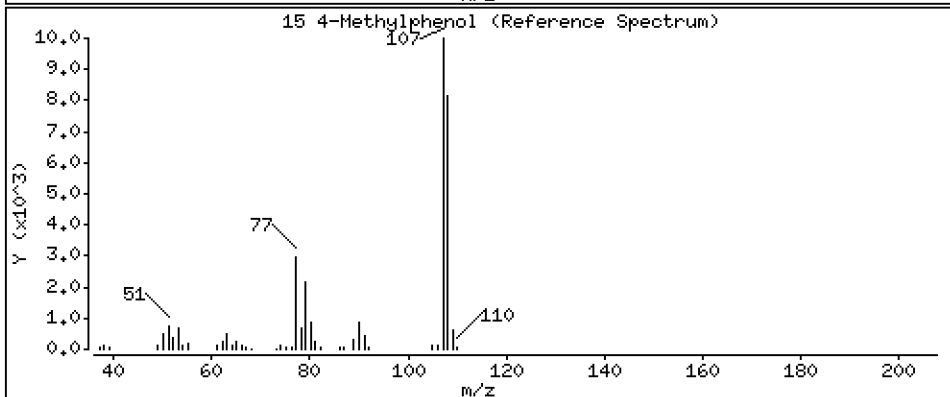
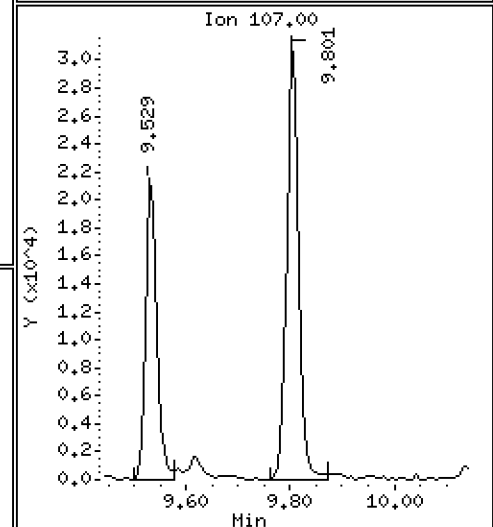
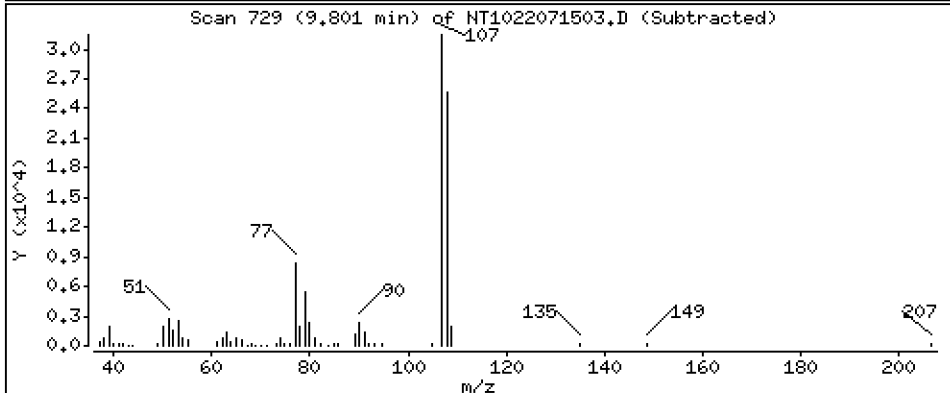
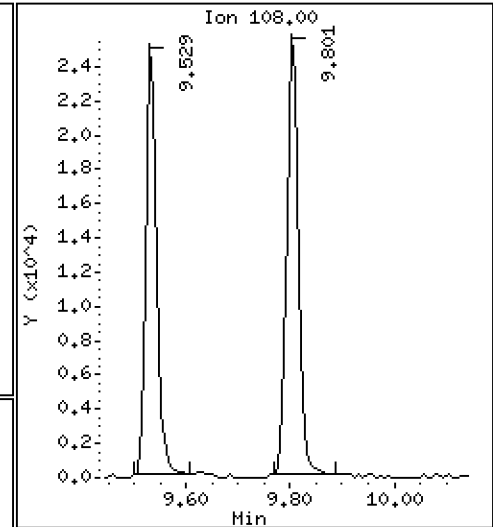
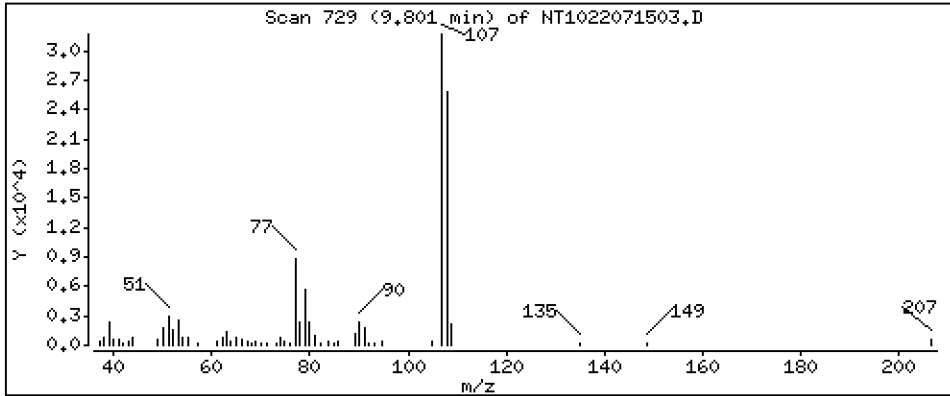
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,5044 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

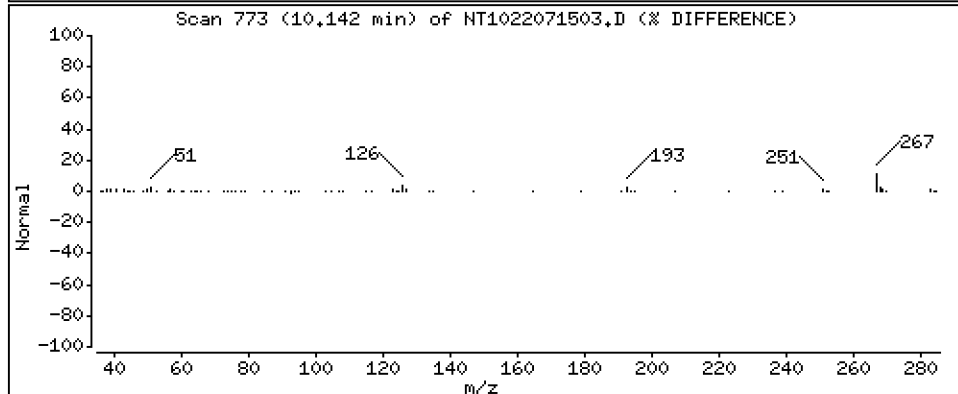
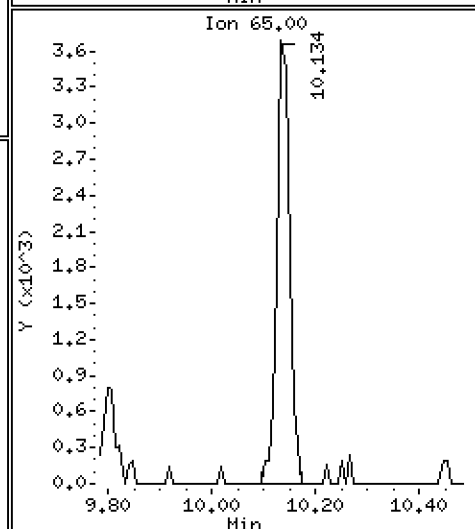
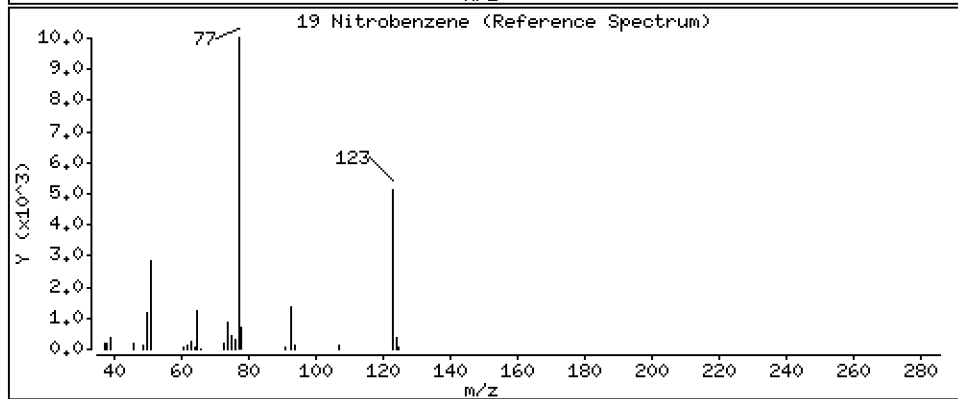
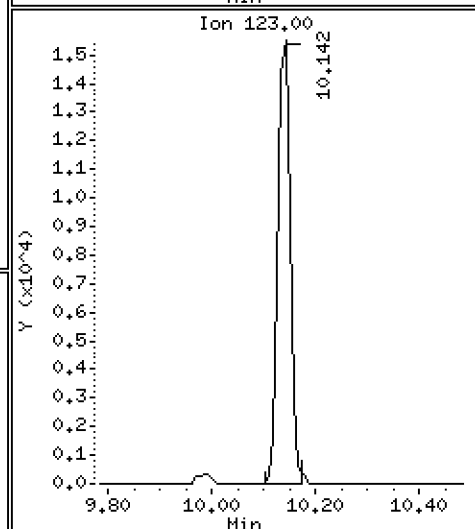
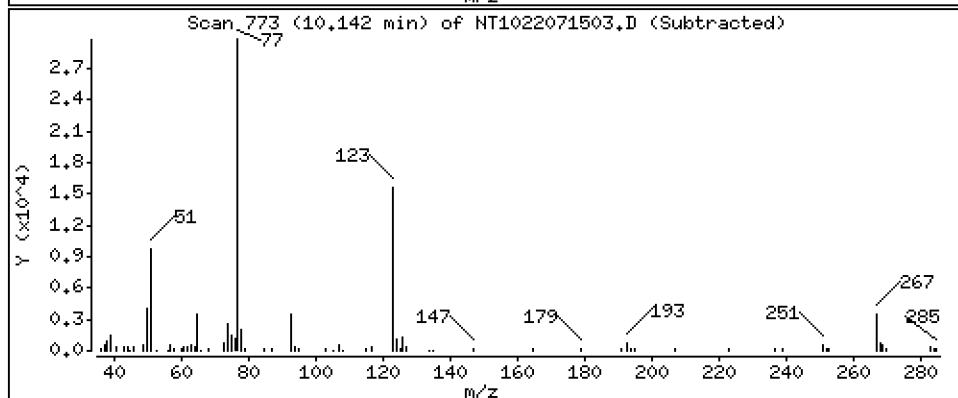
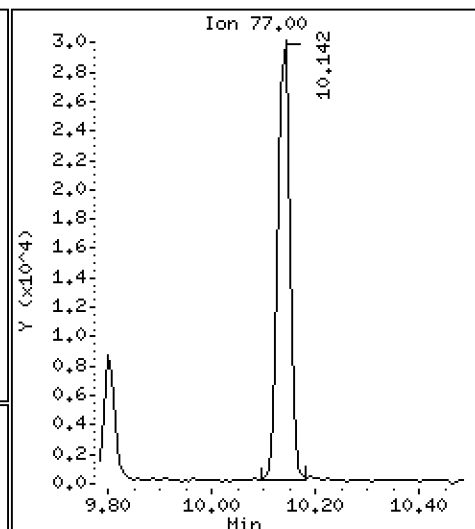
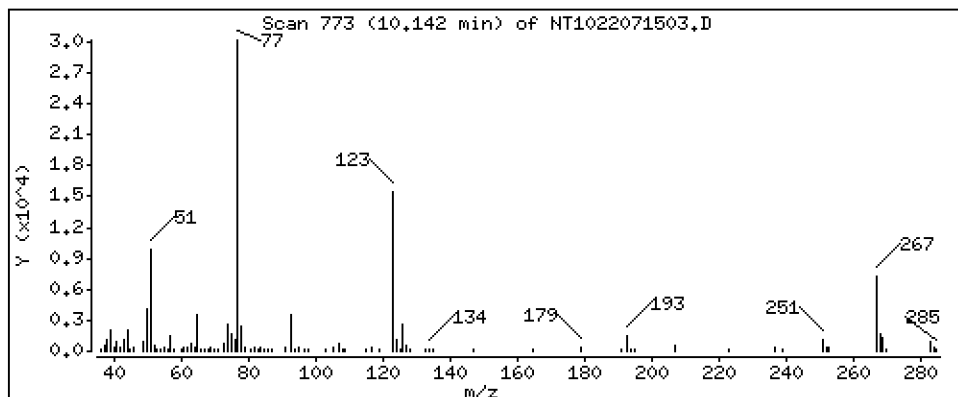
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,5462 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

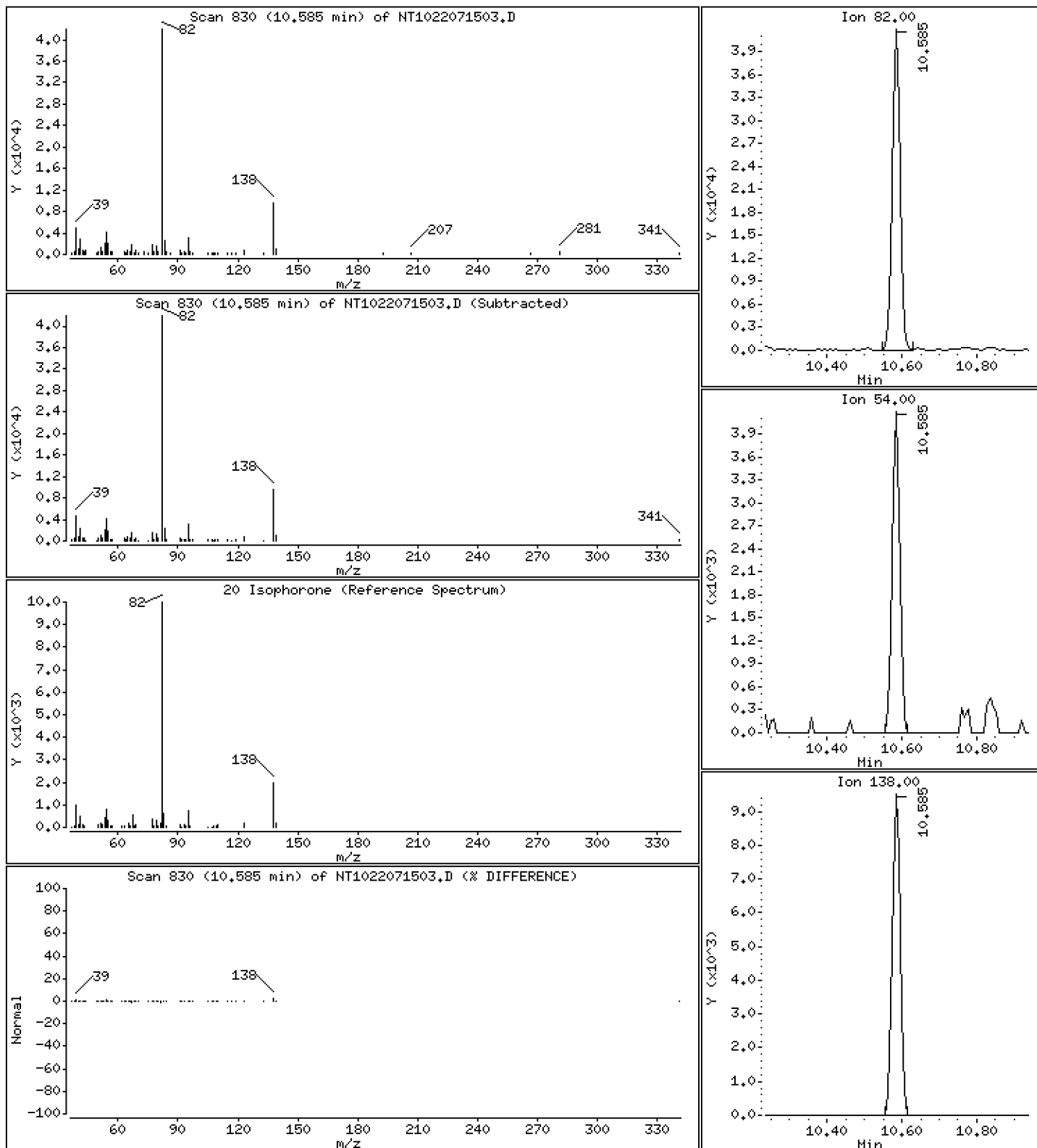
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,5322 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

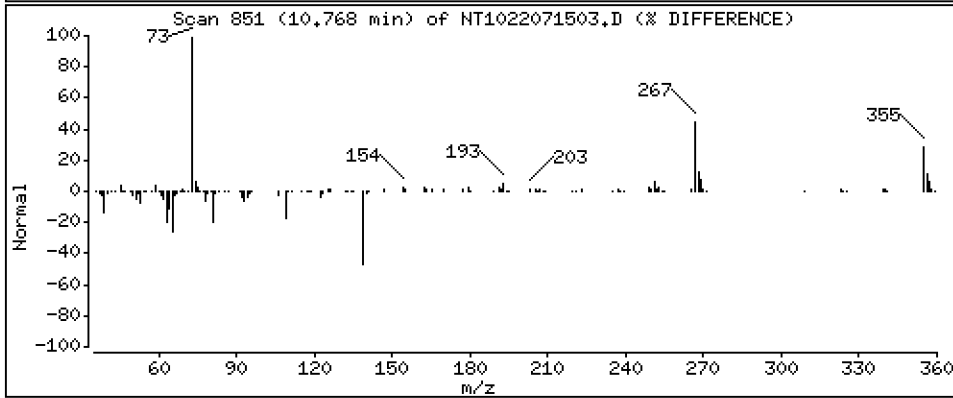
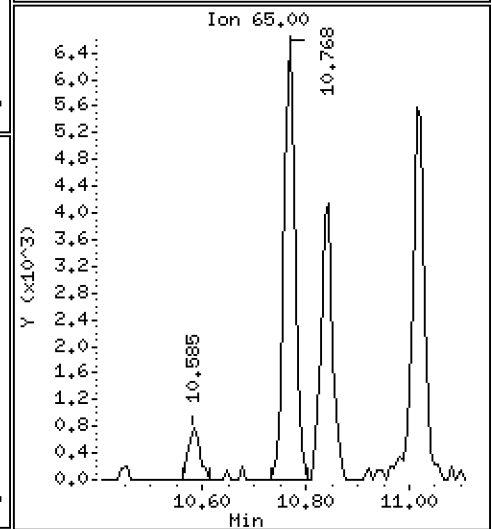
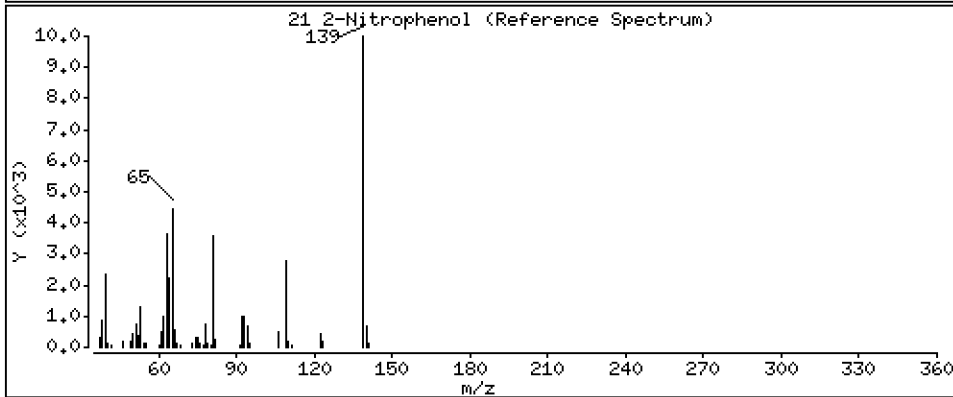
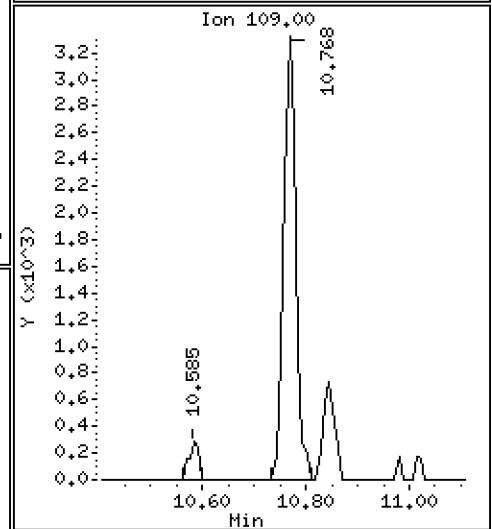
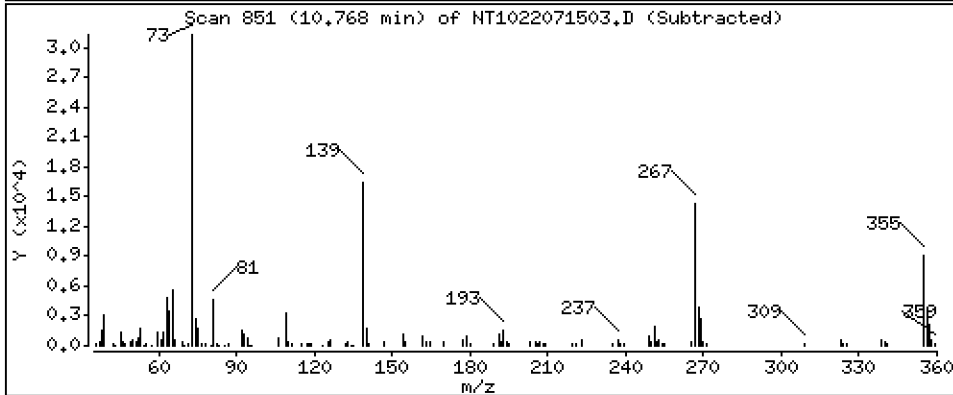
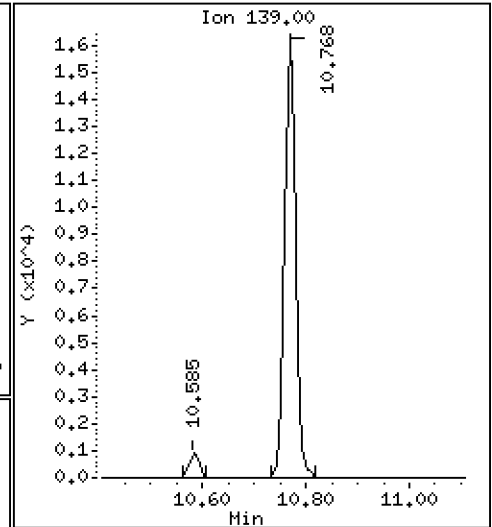
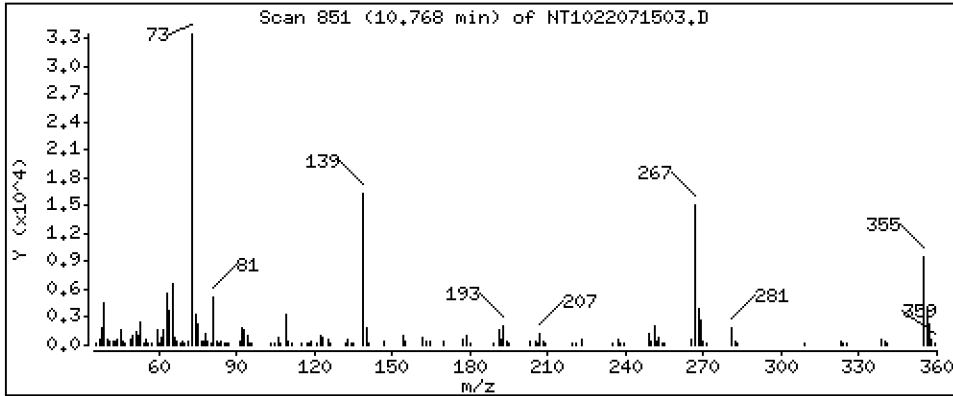
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,4647 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

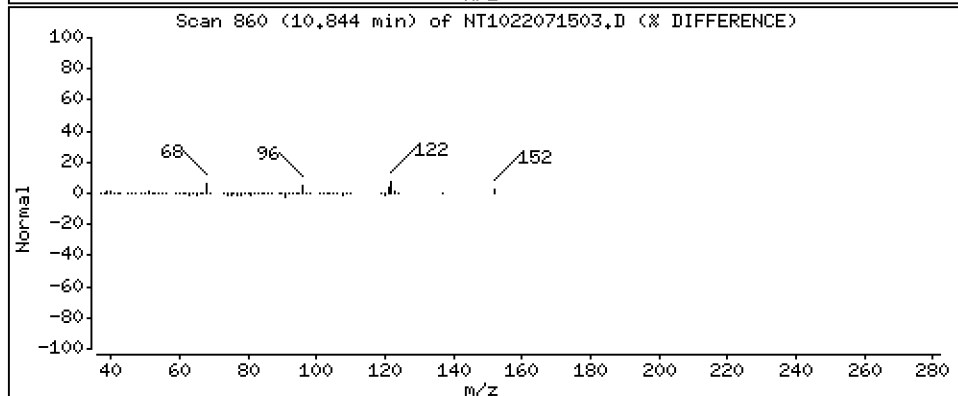
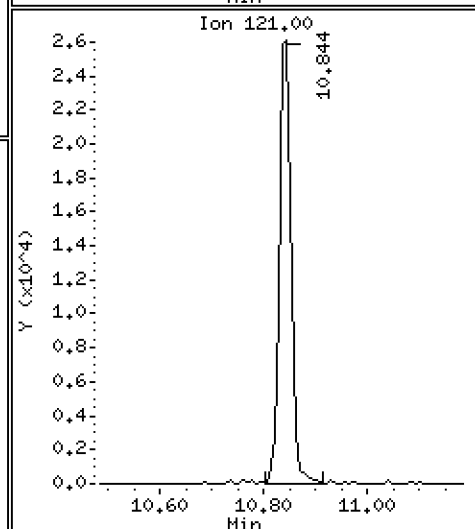
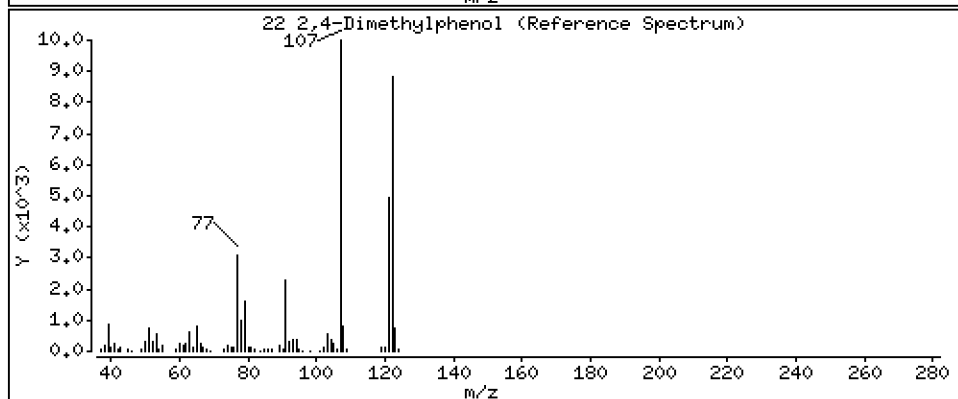
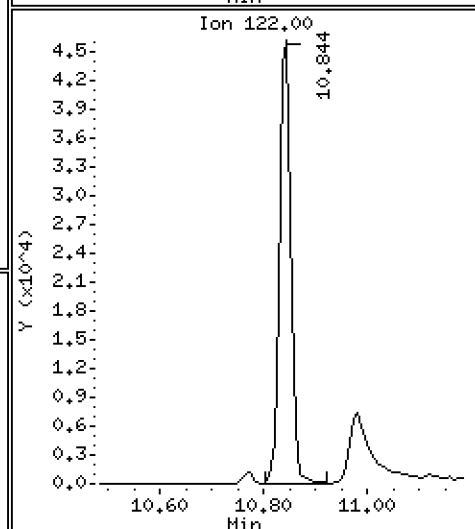
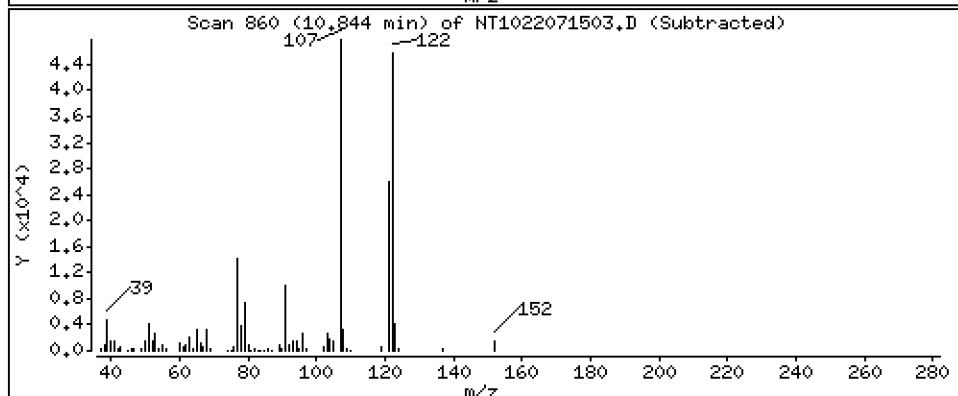
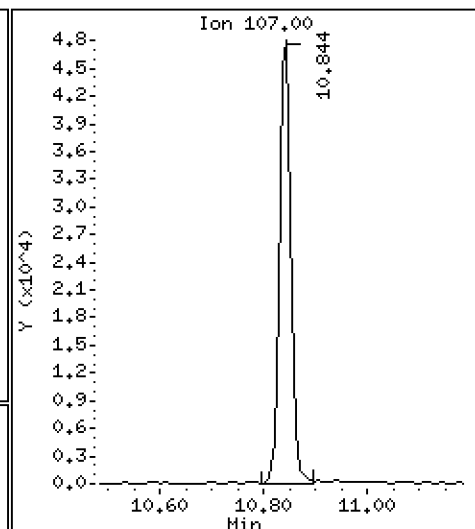
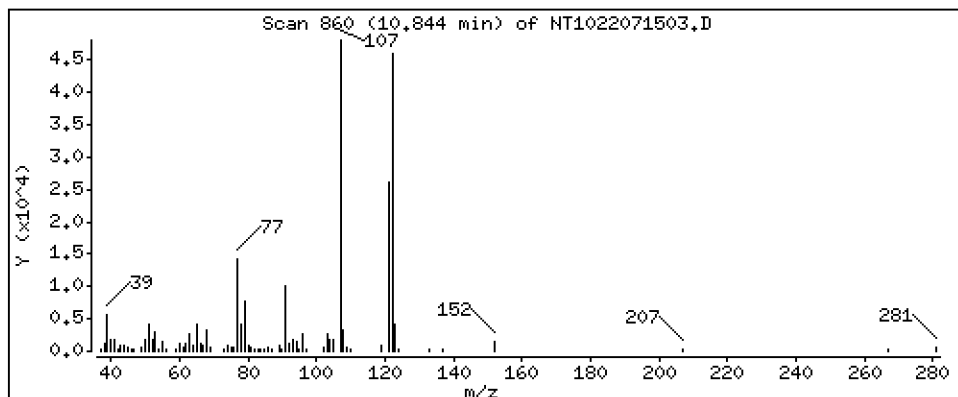
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,173 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

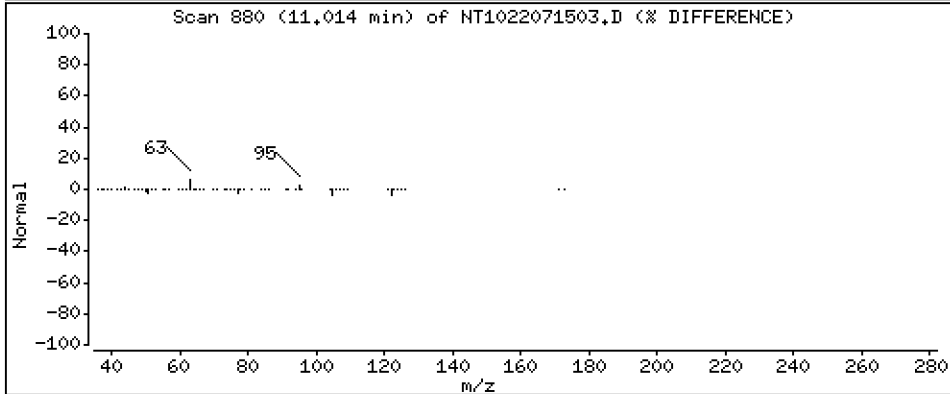
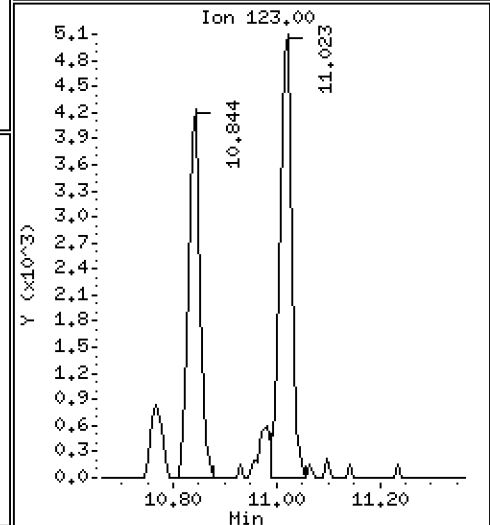
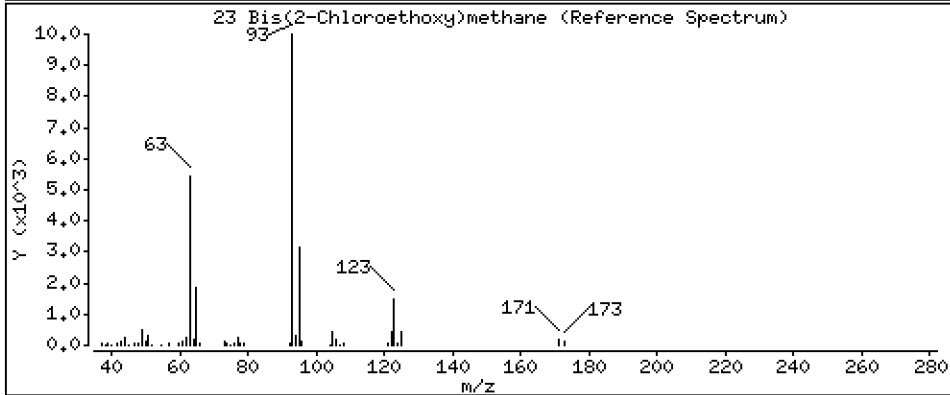
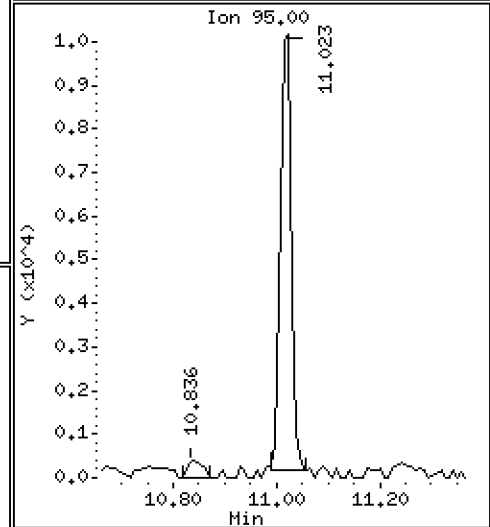
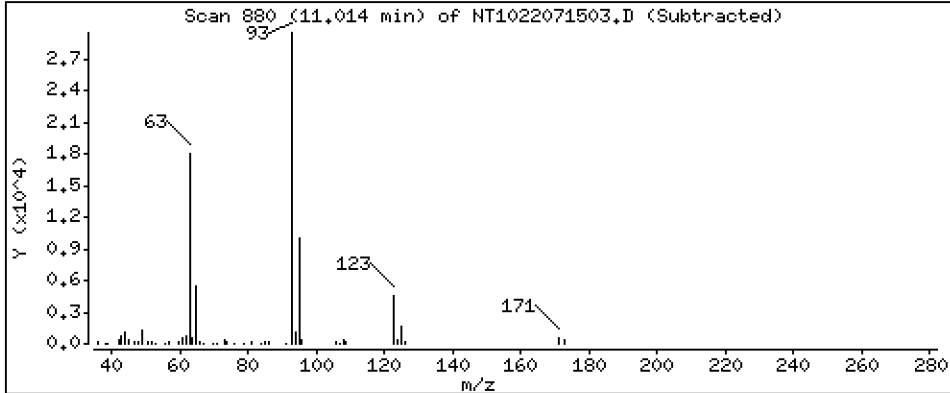
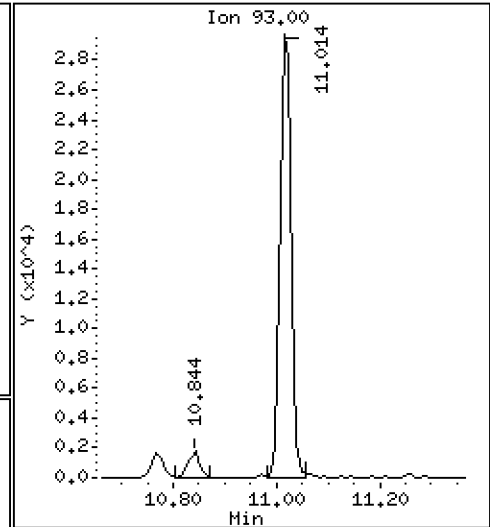
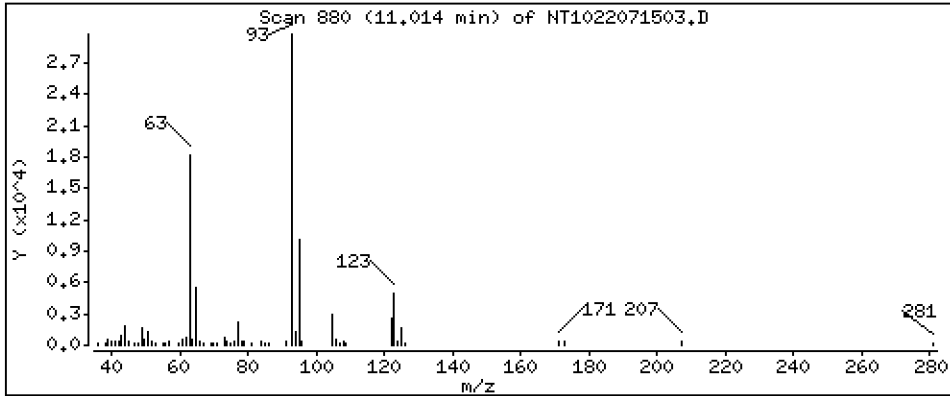
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,6259 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

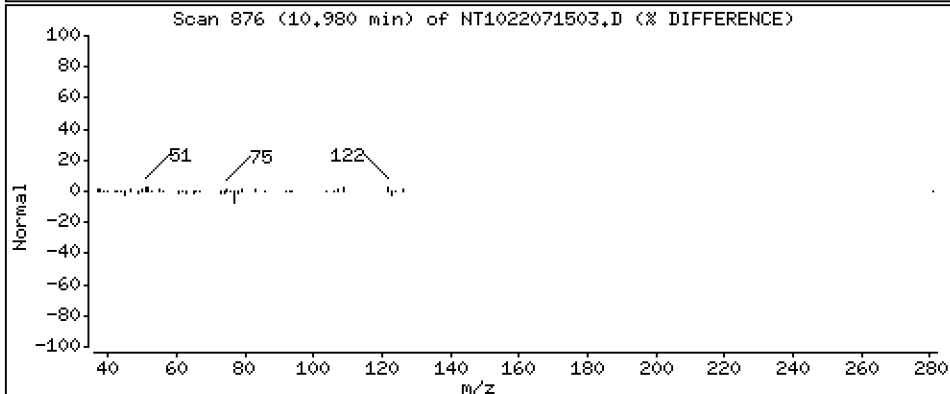
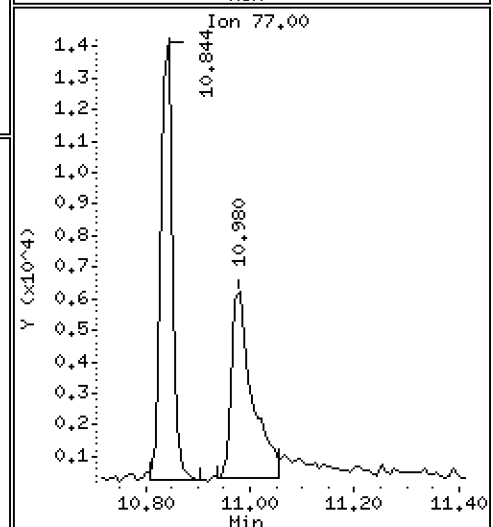
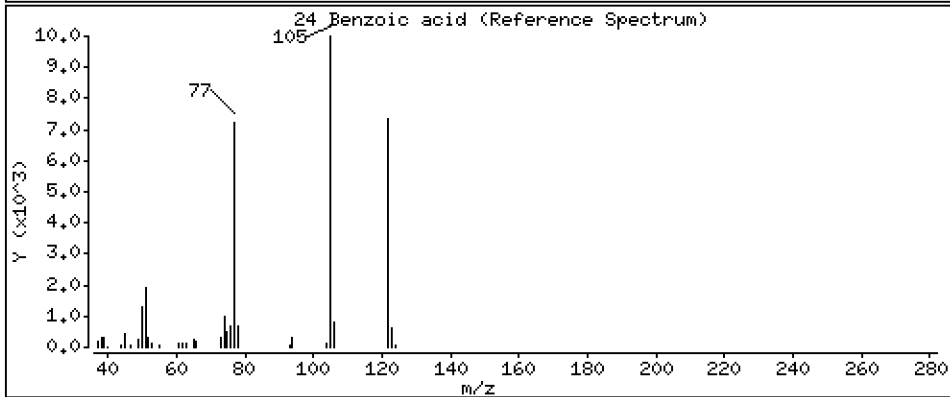
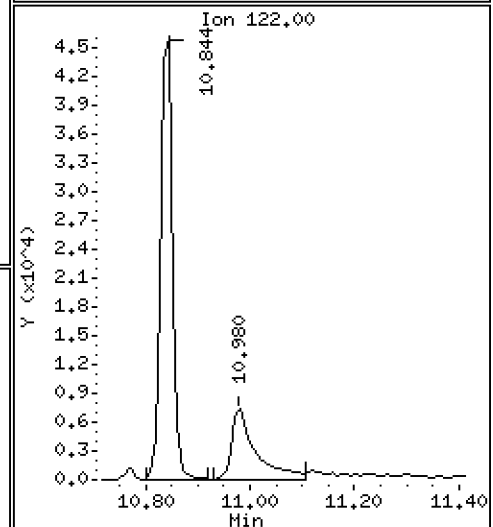
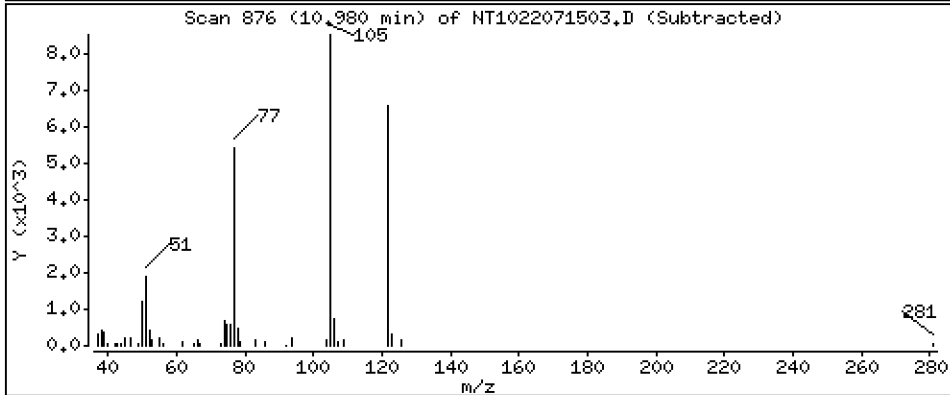
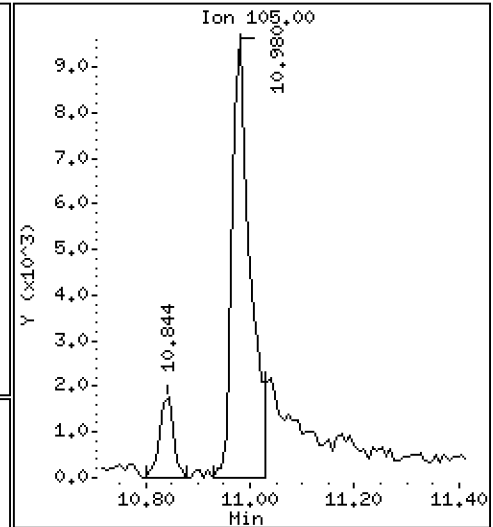
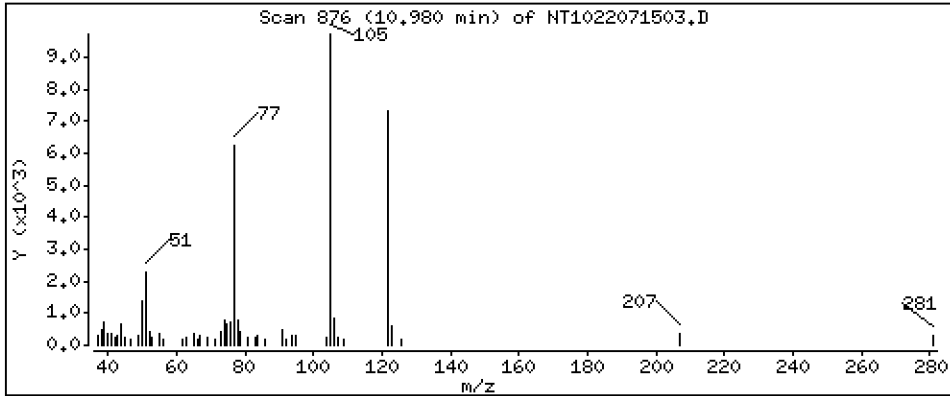
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,7215 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

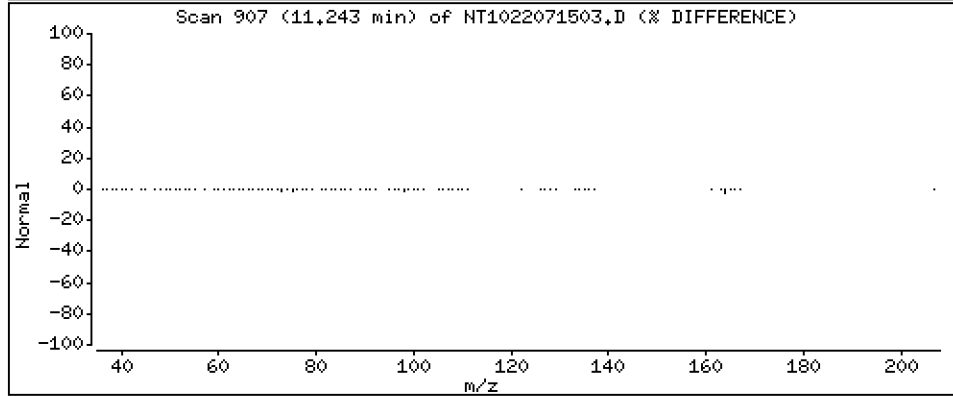
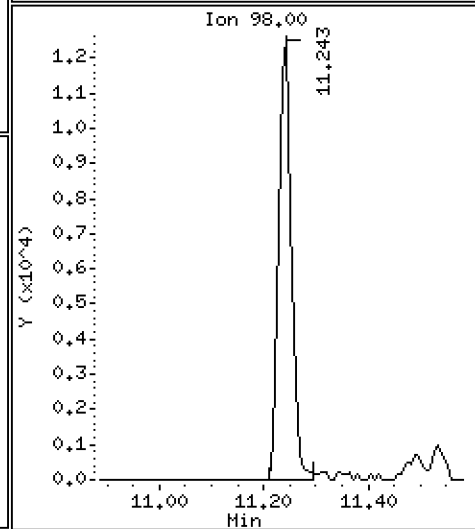
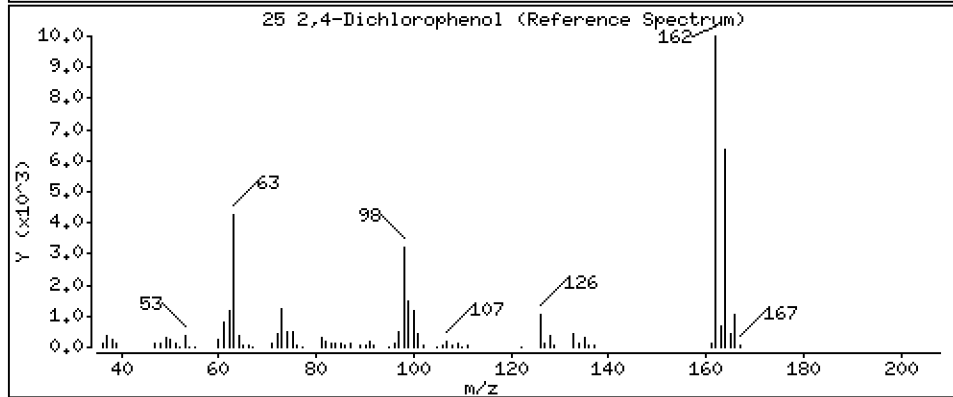
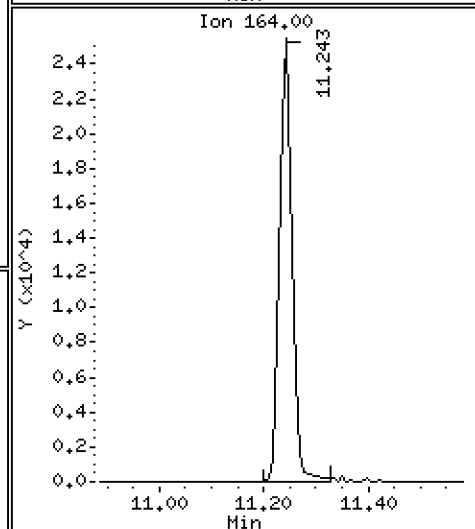
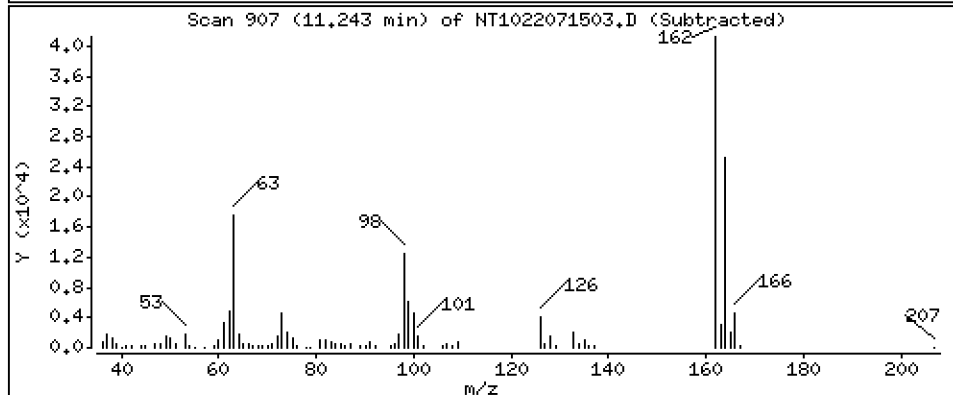
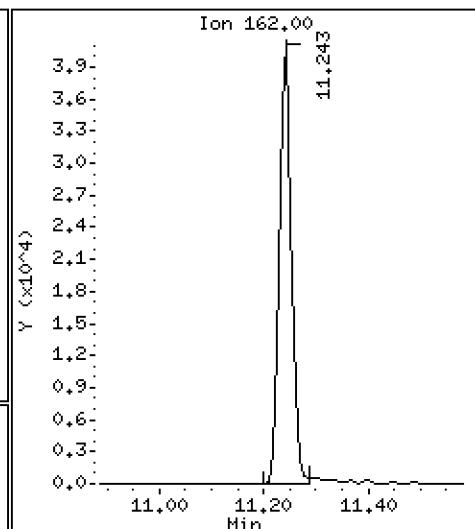
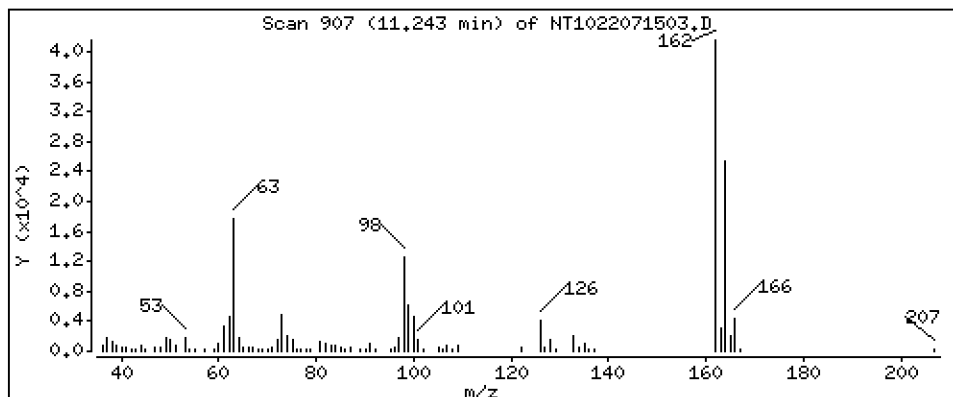
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 1,017 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

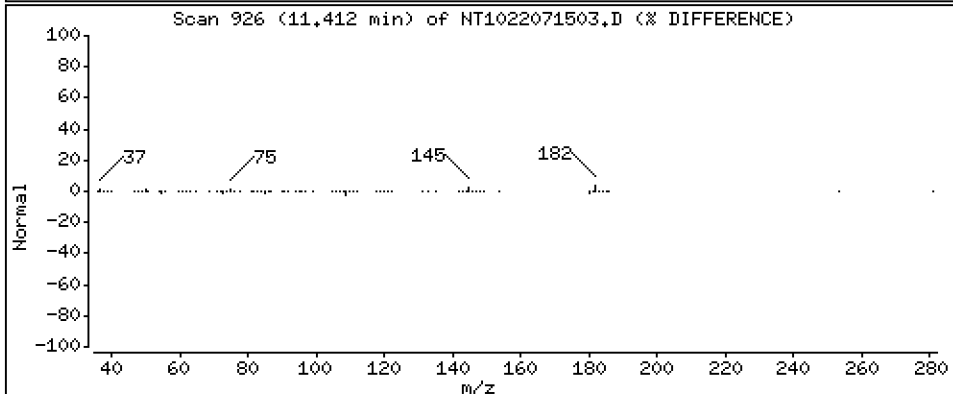
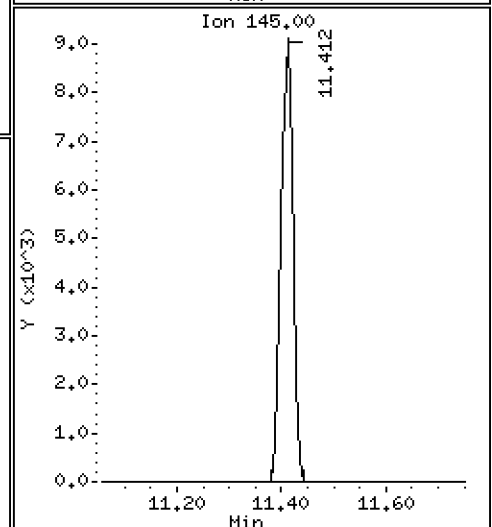
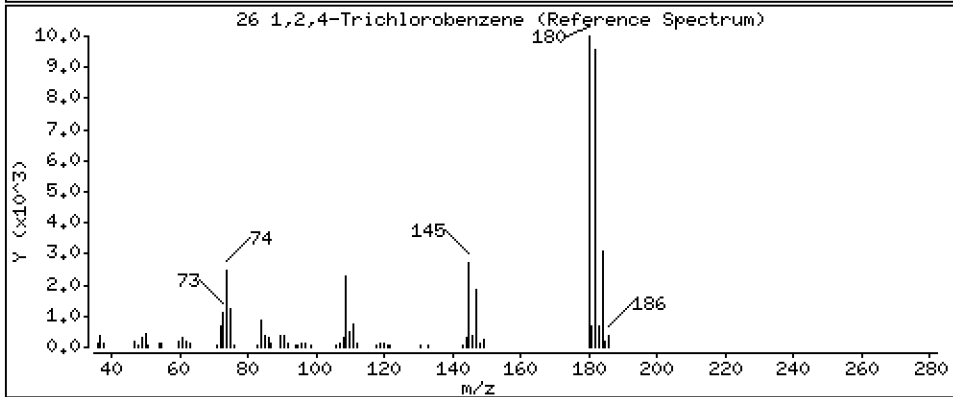
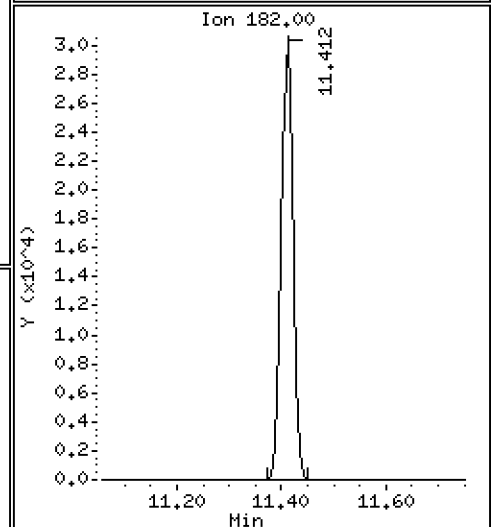
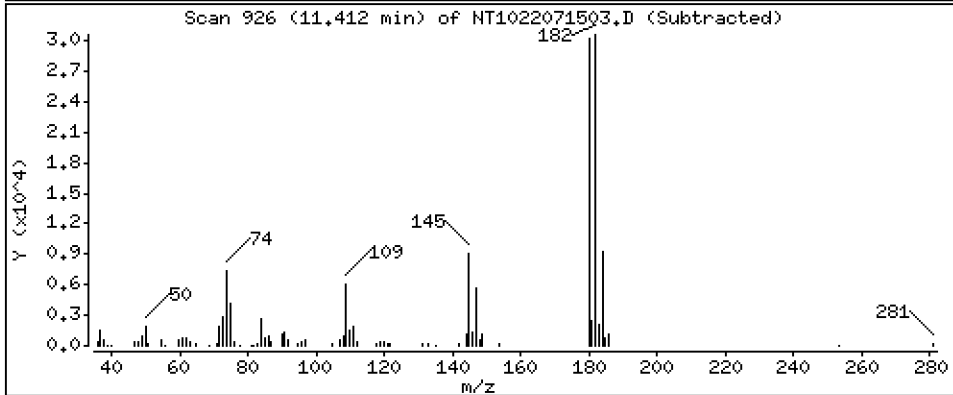
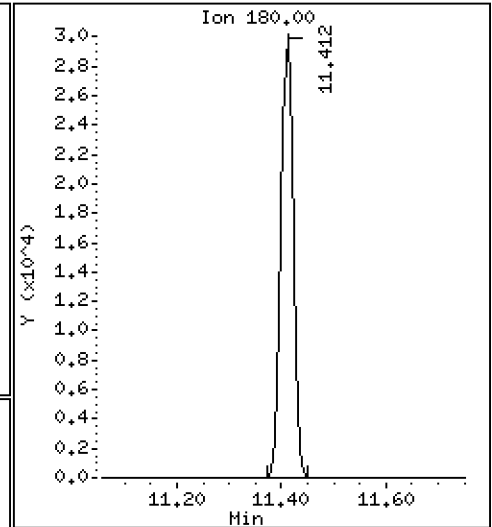
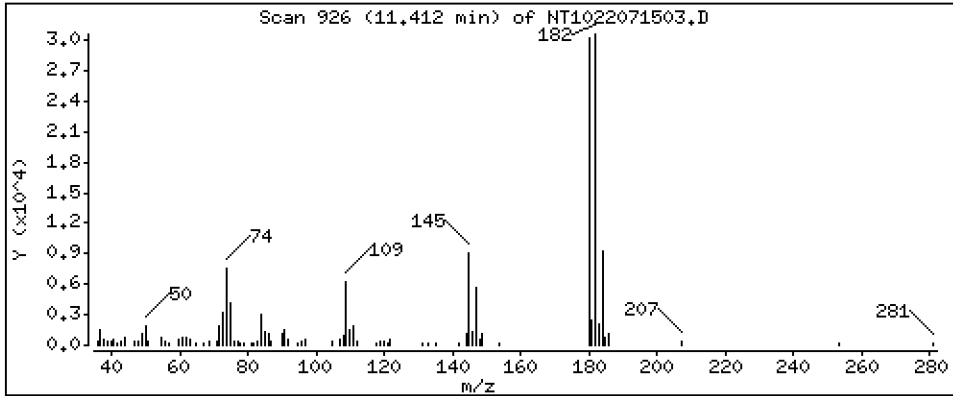
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,6750 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

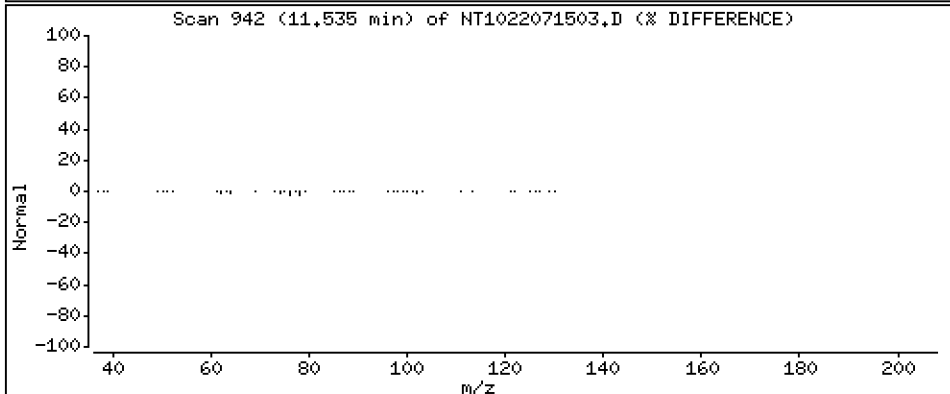
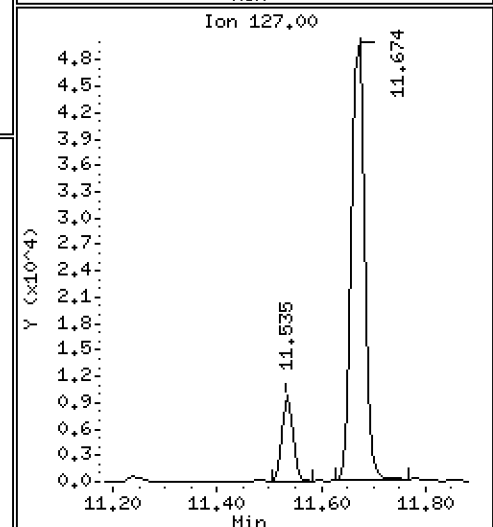
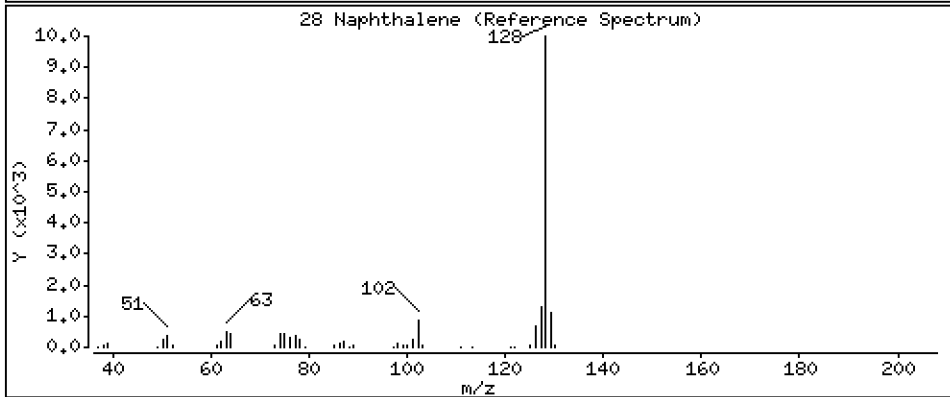
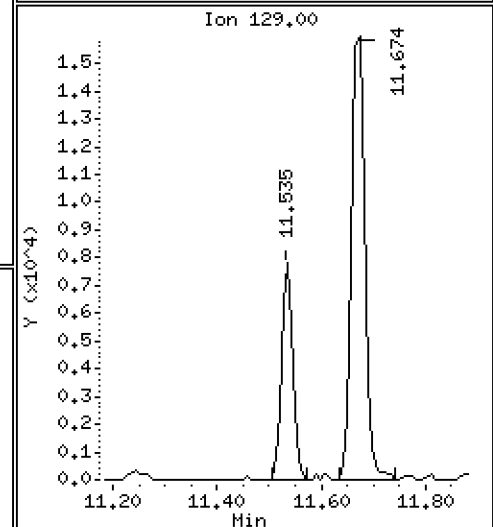
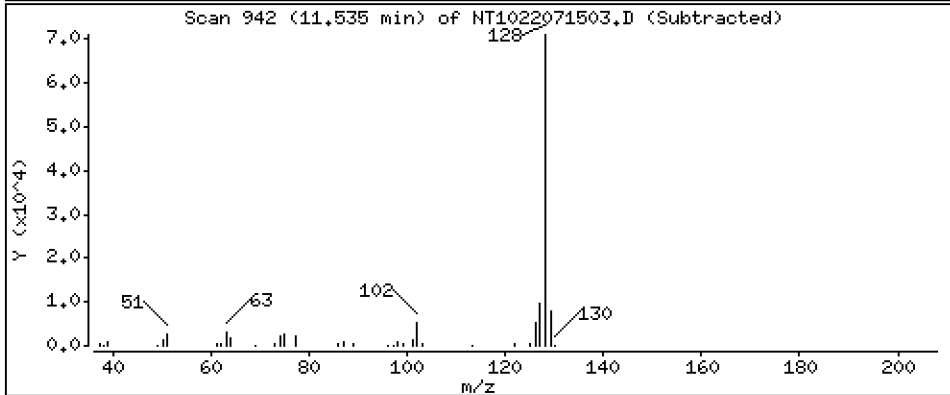
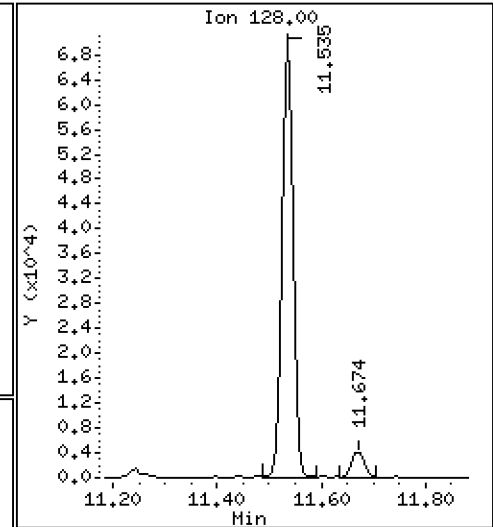
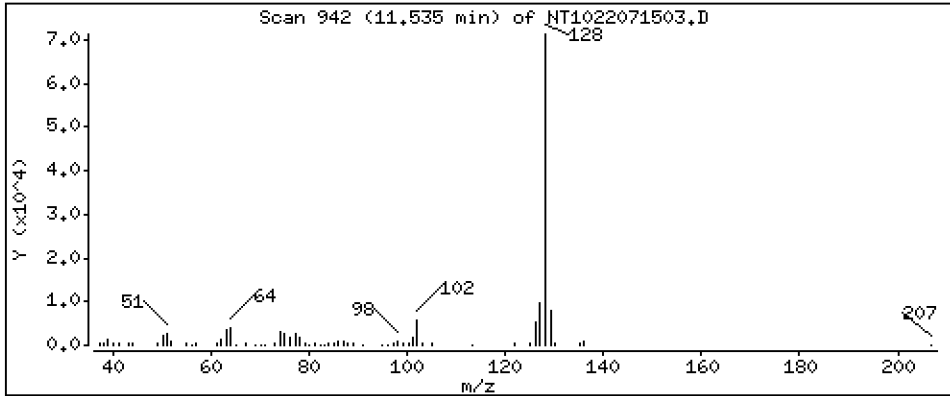
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.5544 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

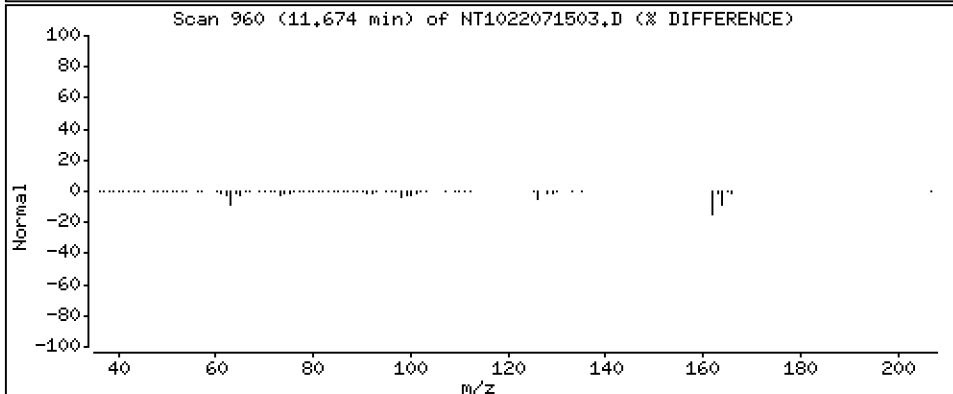
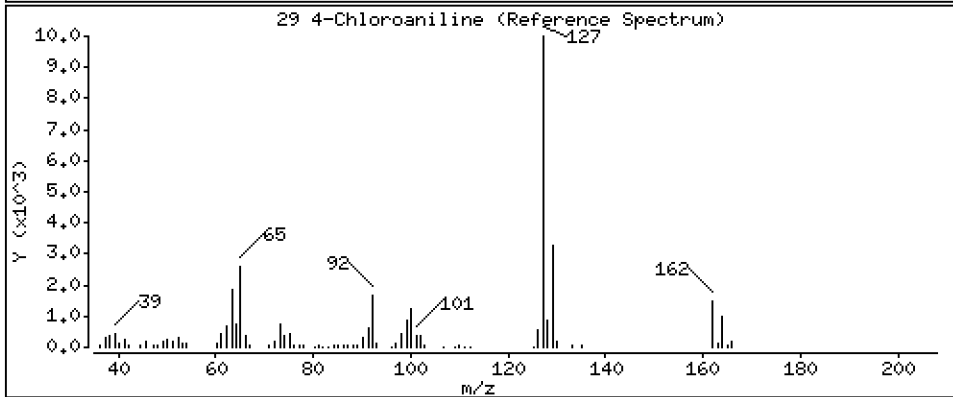
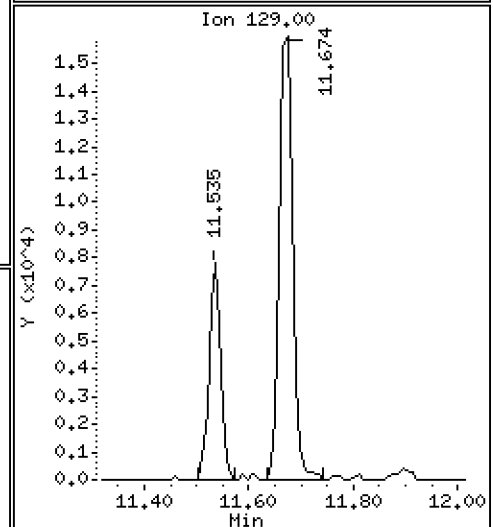
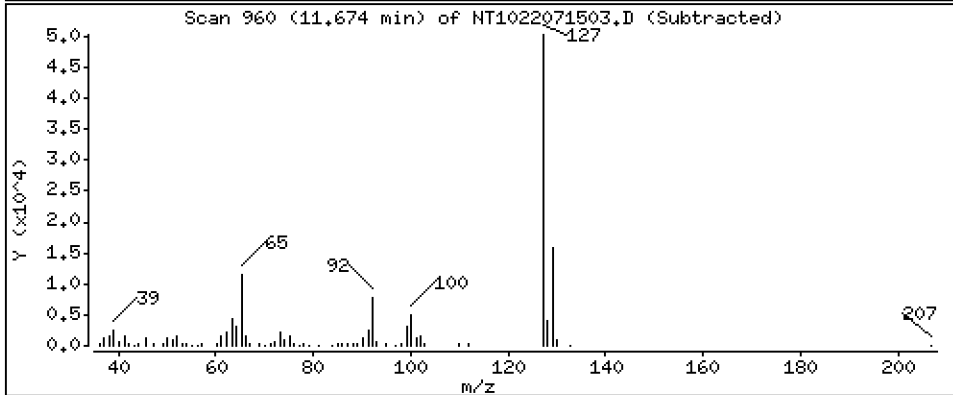
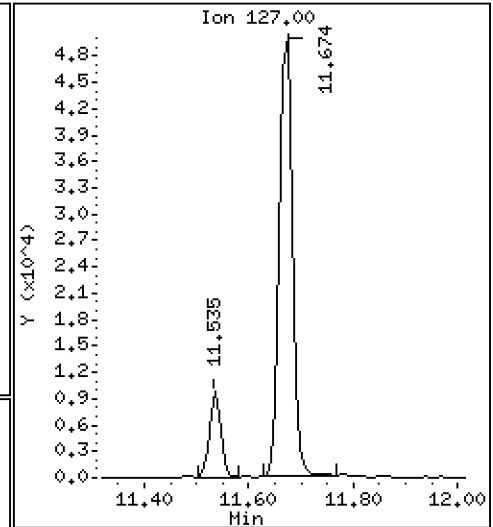
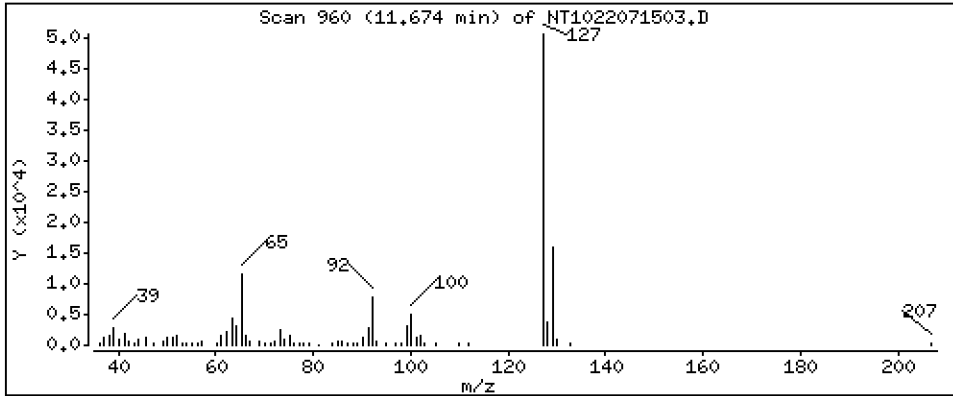
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,9426 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

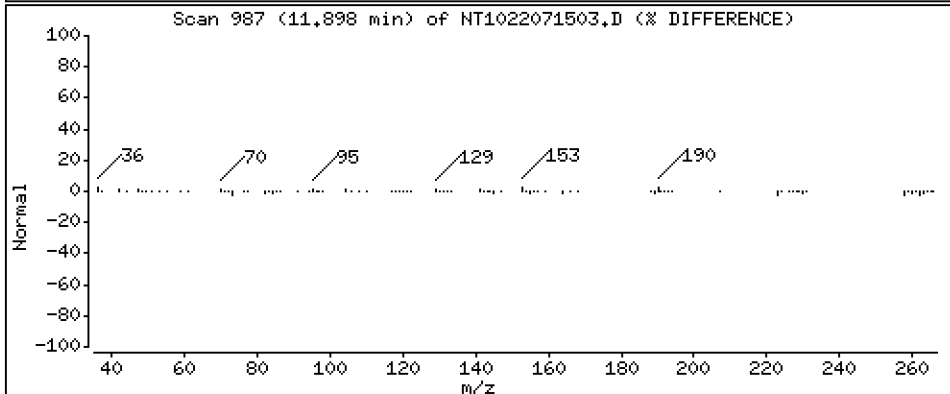
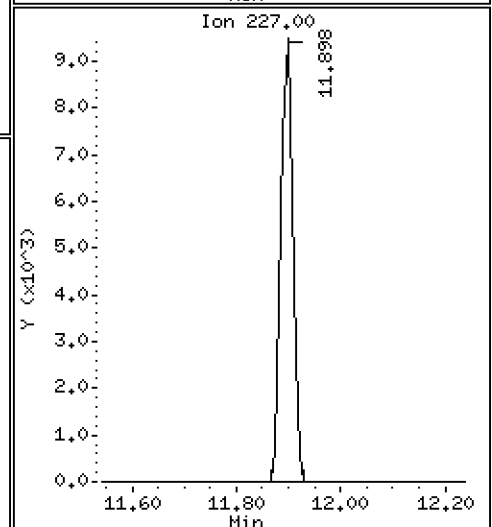
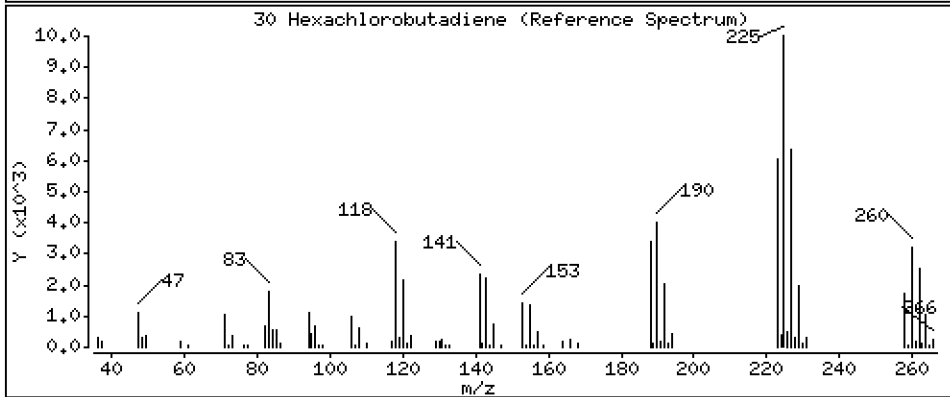
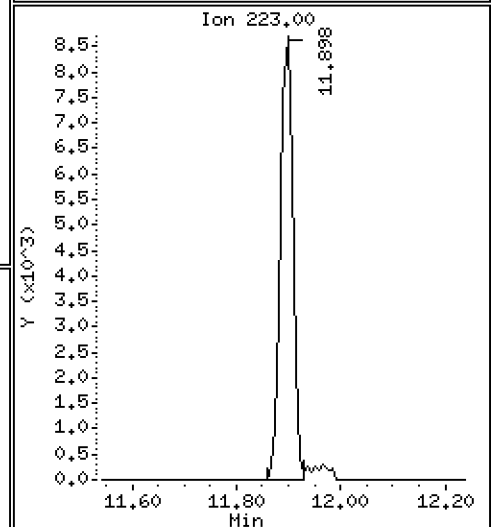
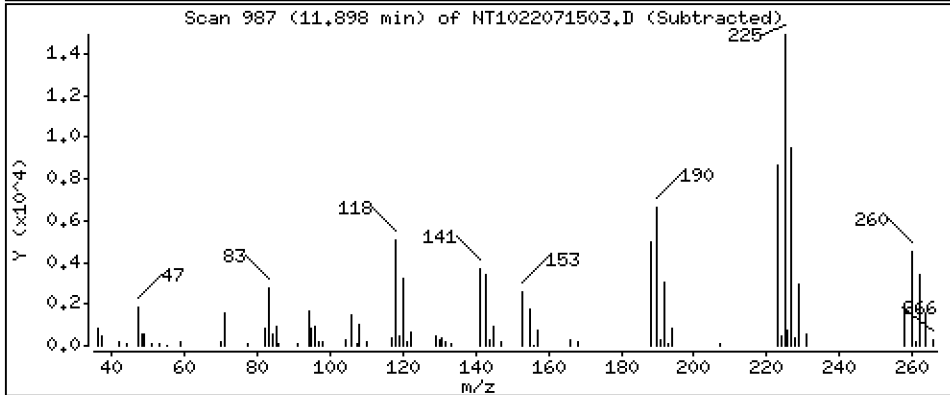
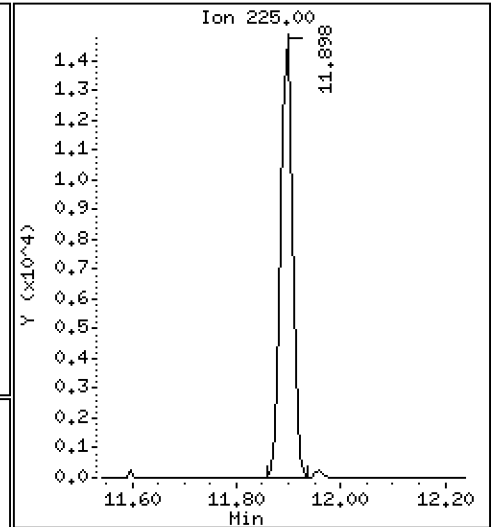
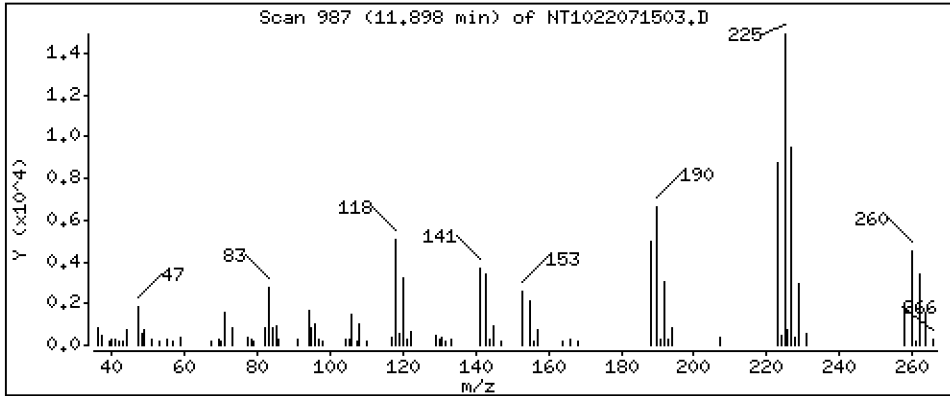
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,6662 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

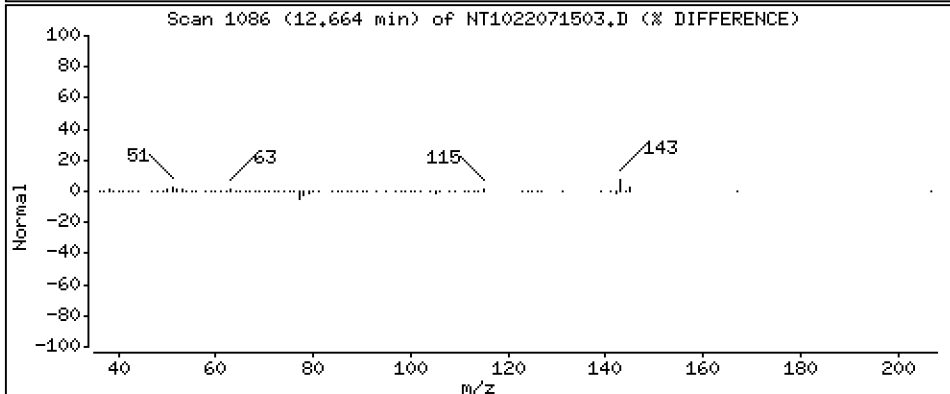
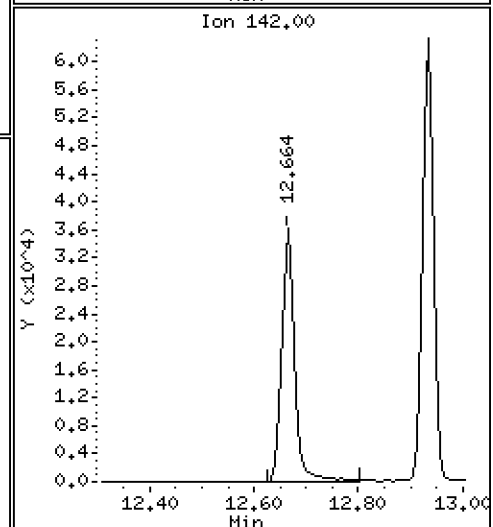
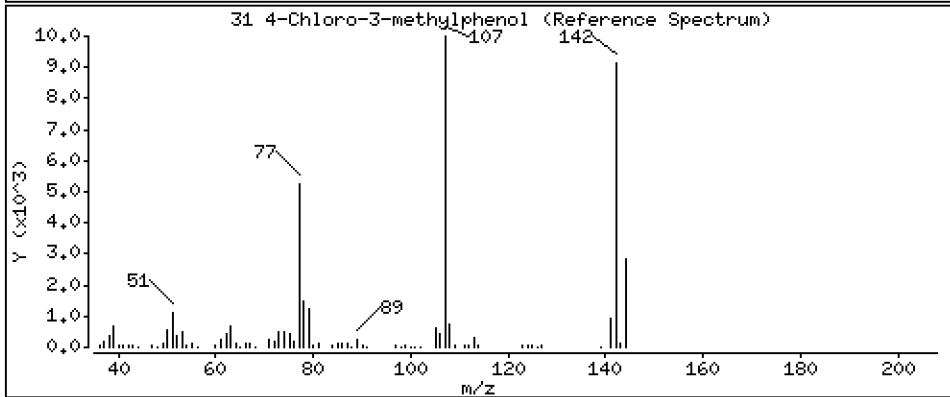
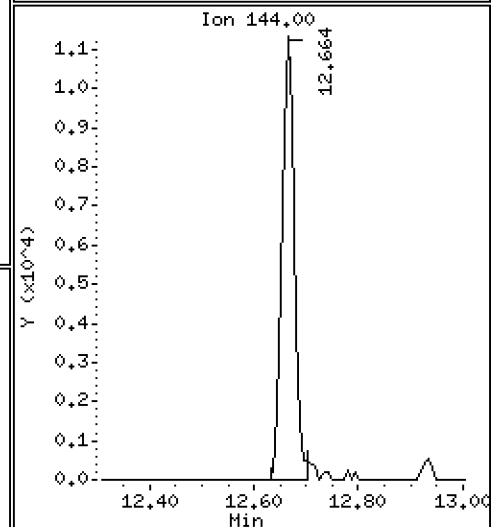
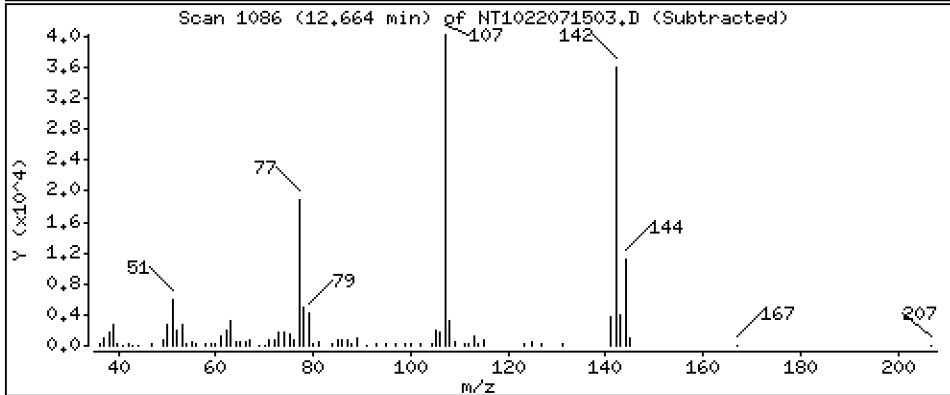
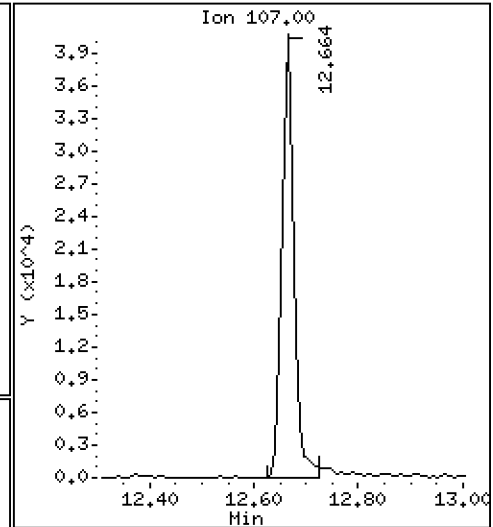
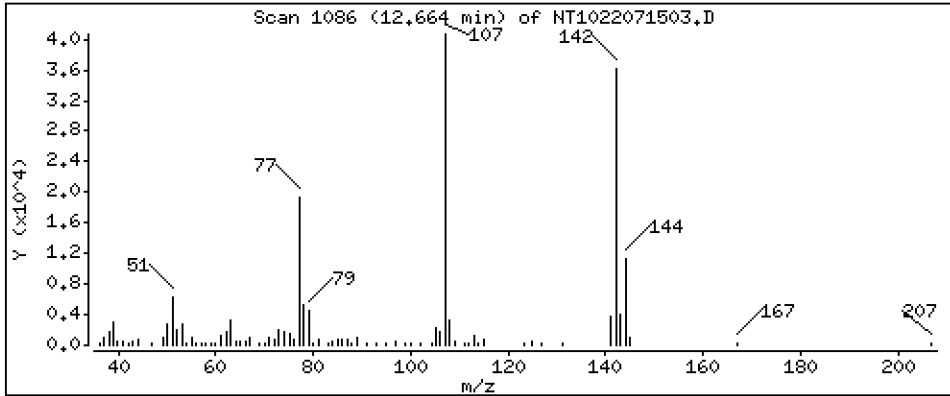
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,8386 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

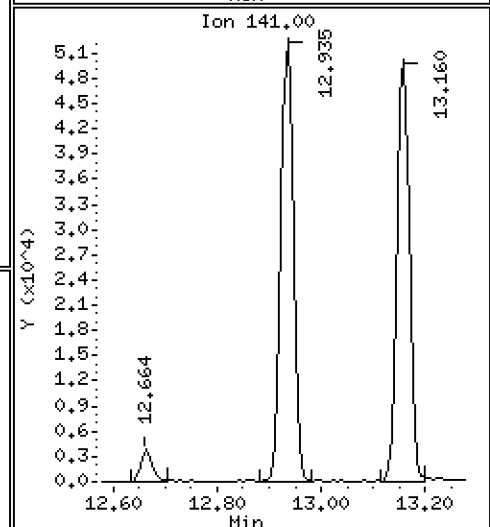
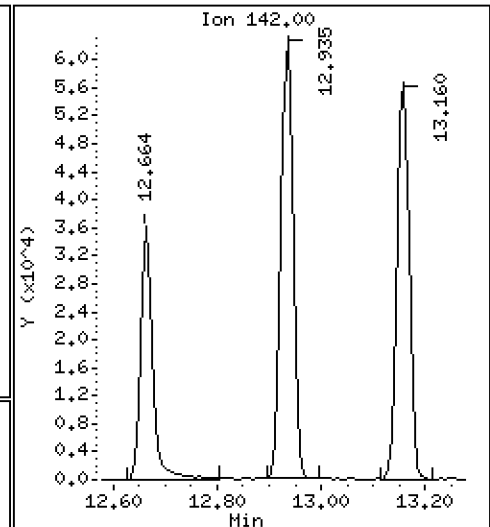
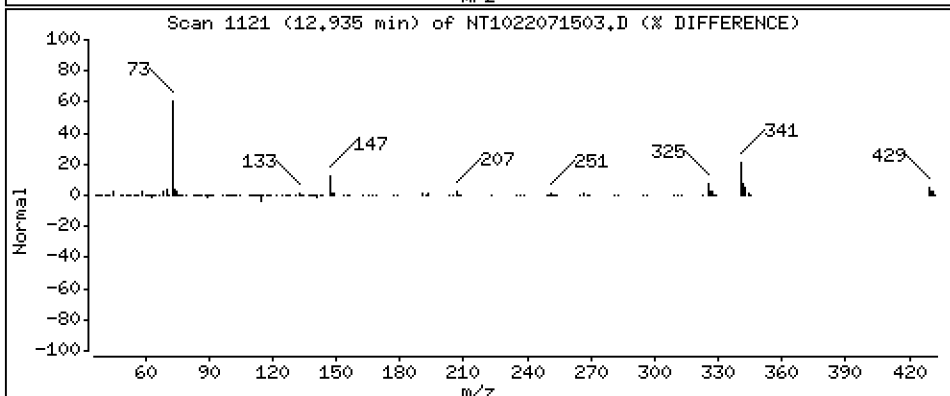
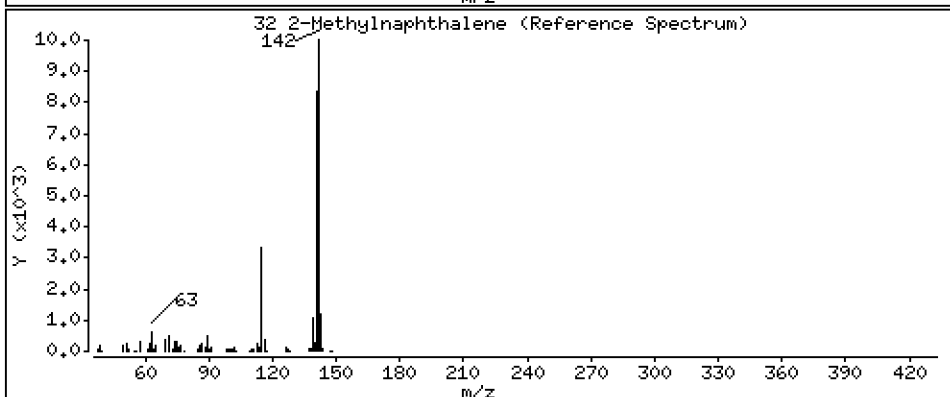
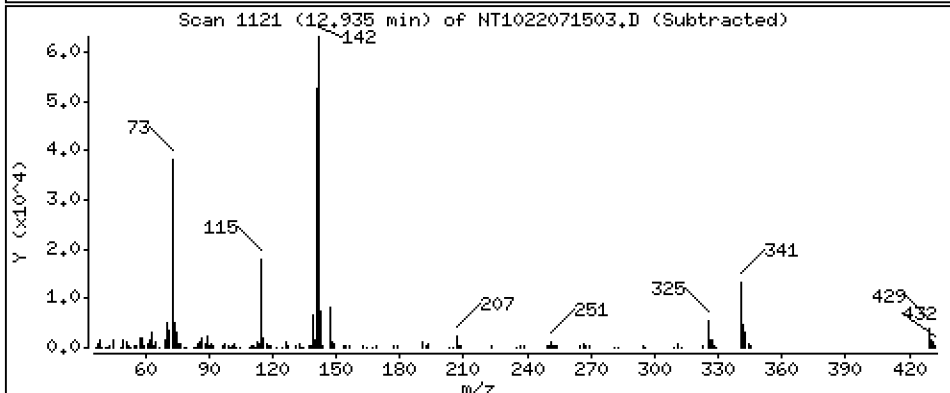
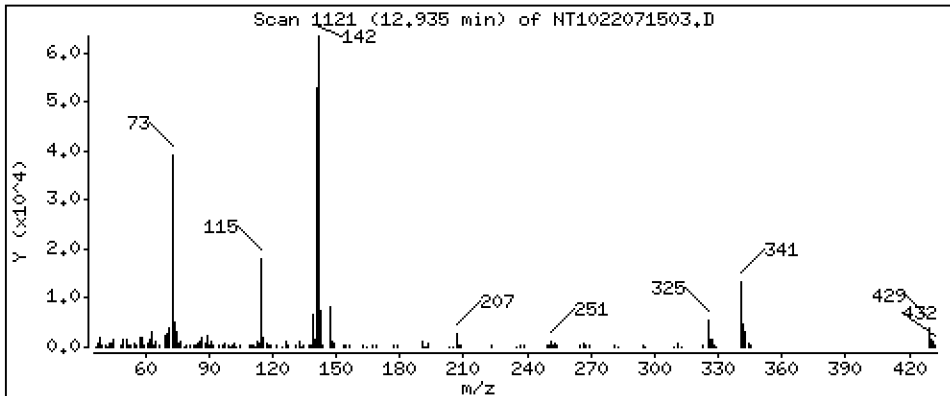
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,4930 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

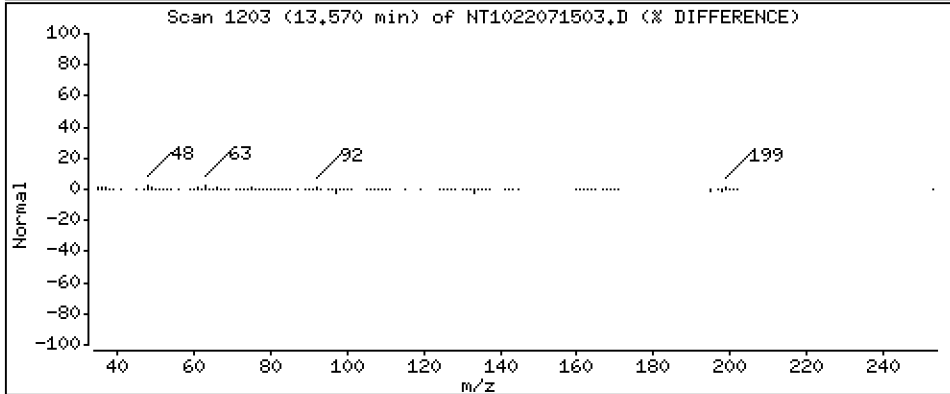
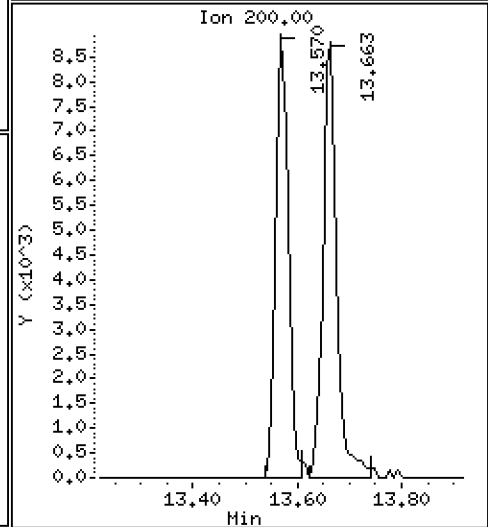
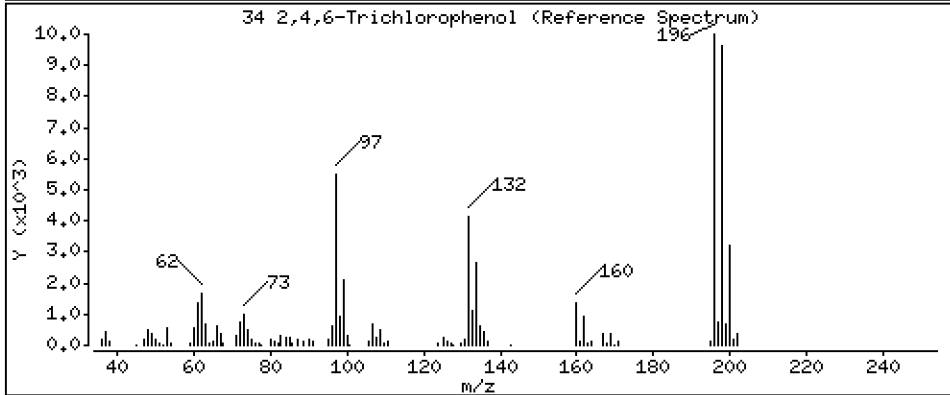
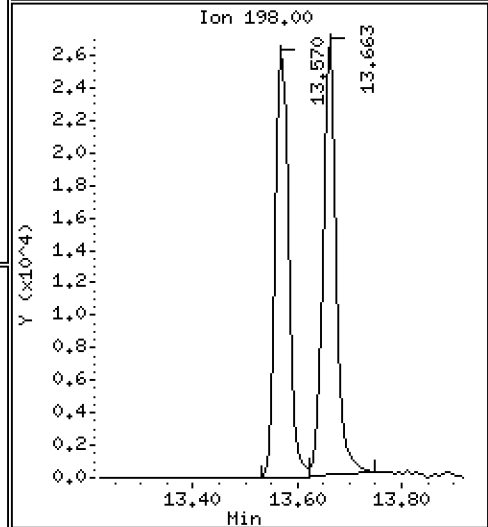
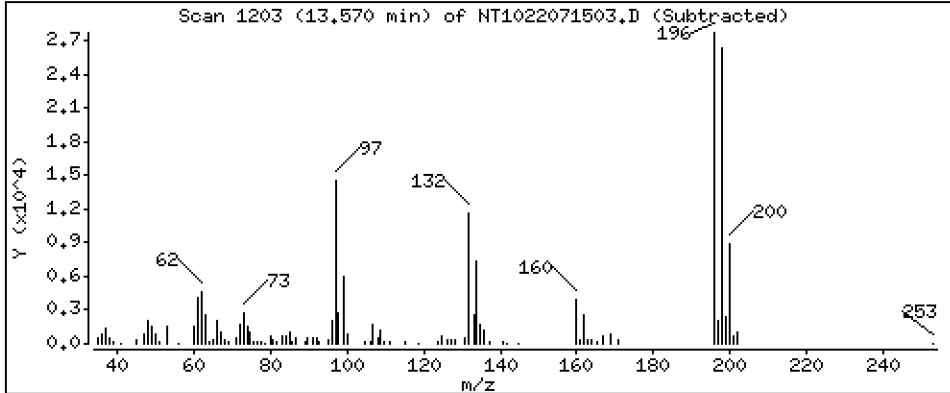
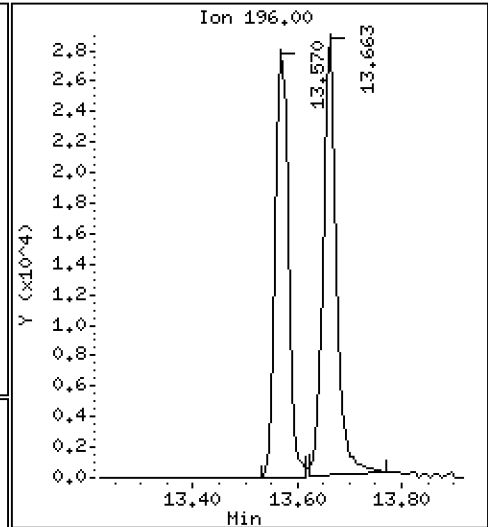
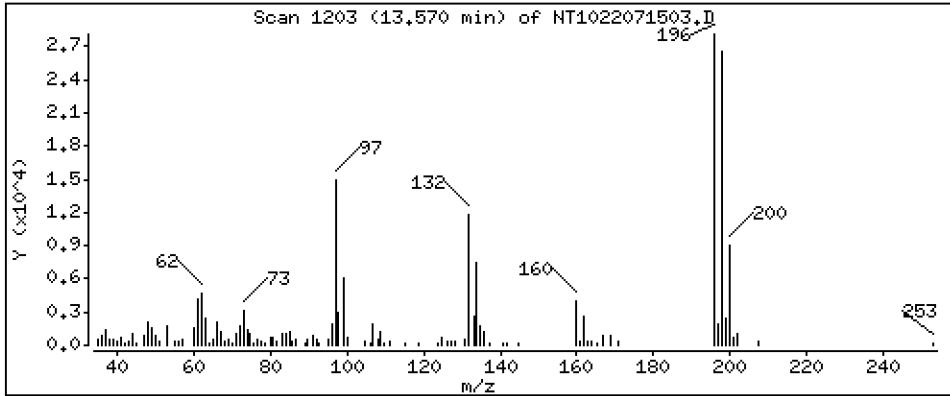
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 1,023 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

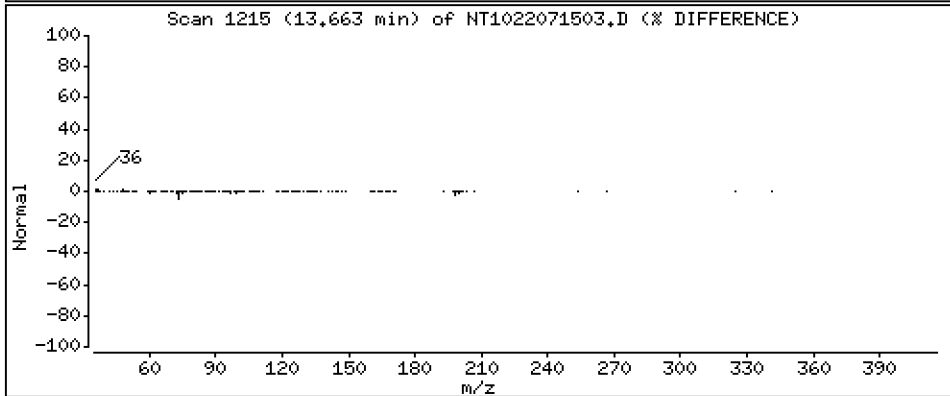
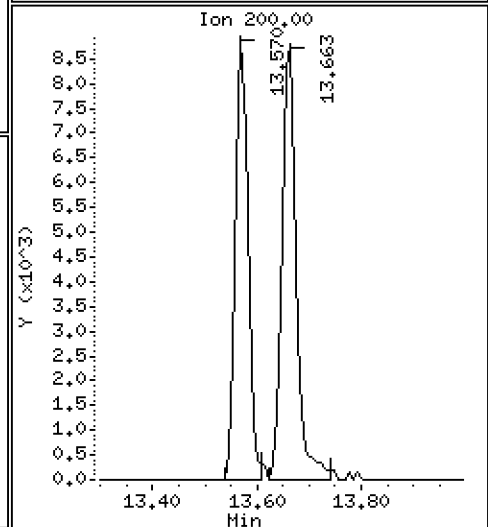
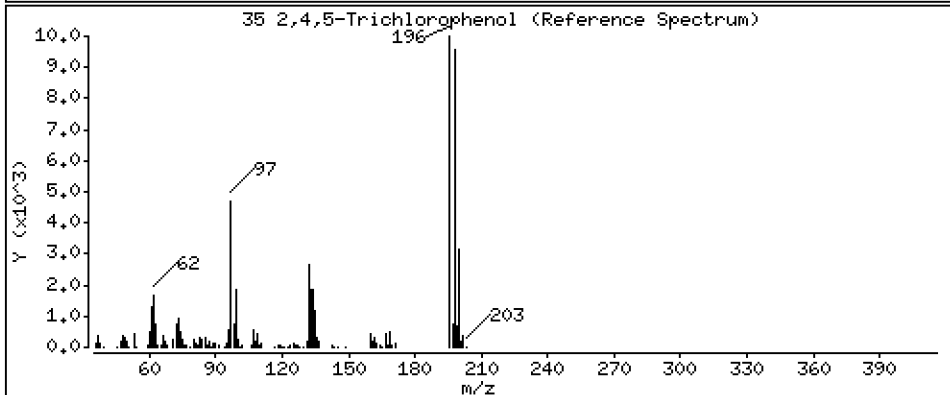
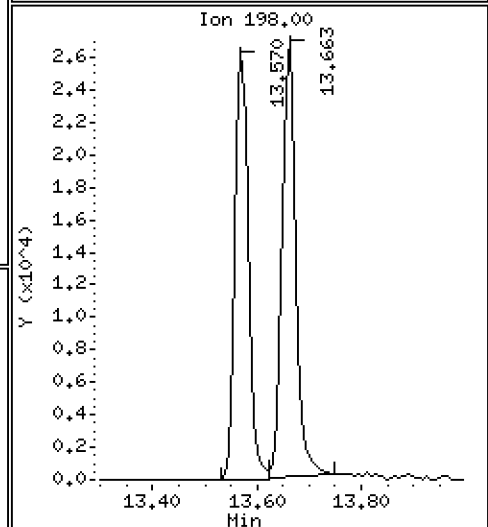
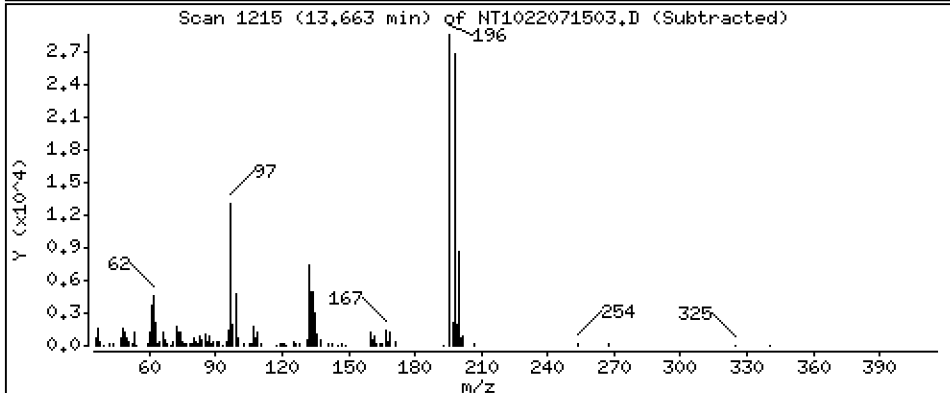
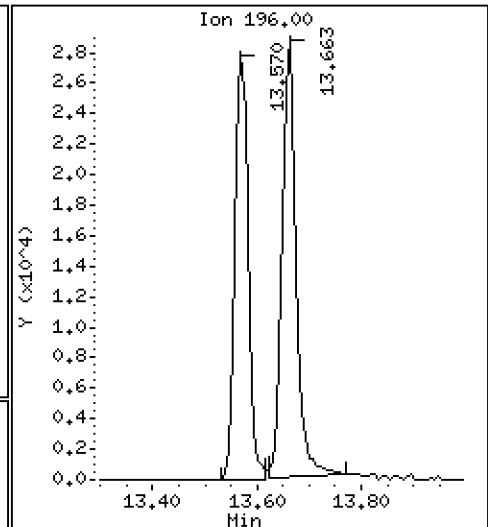
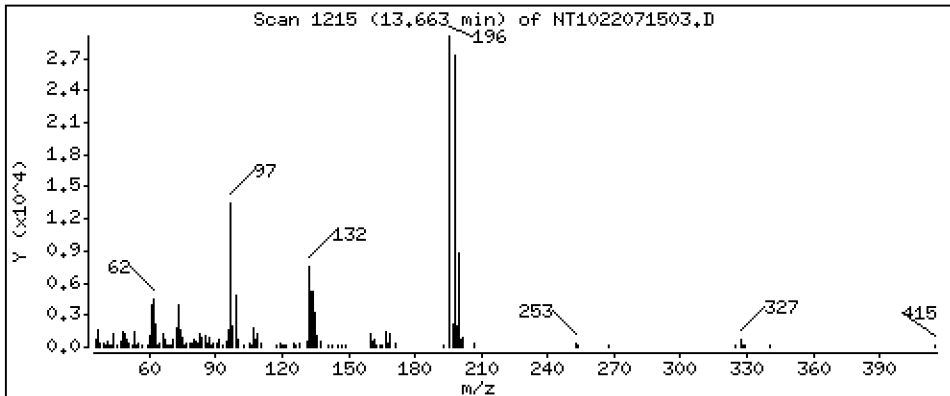
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,9435 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

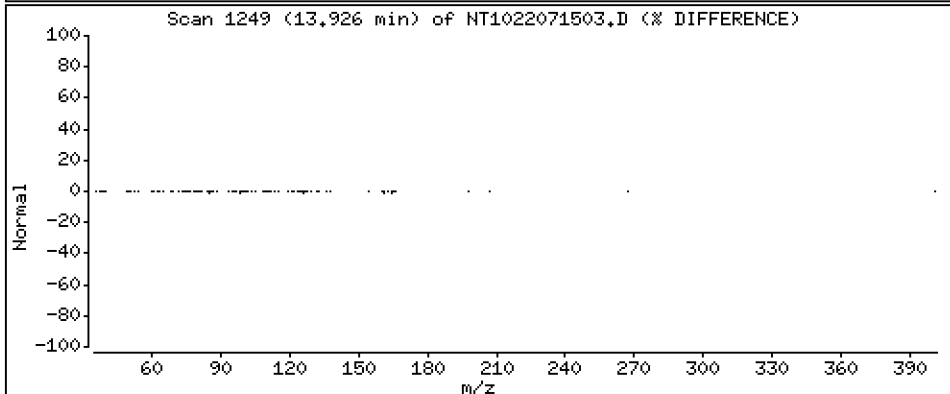
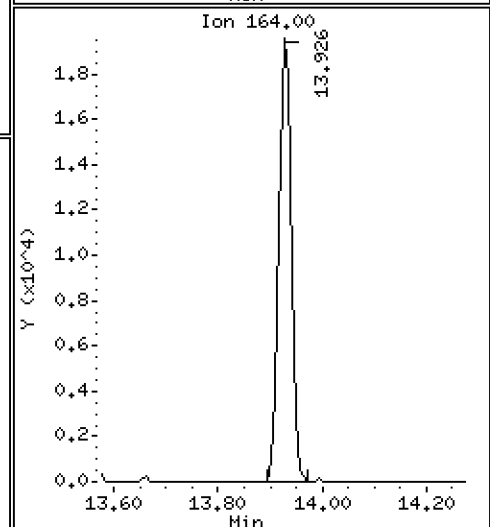
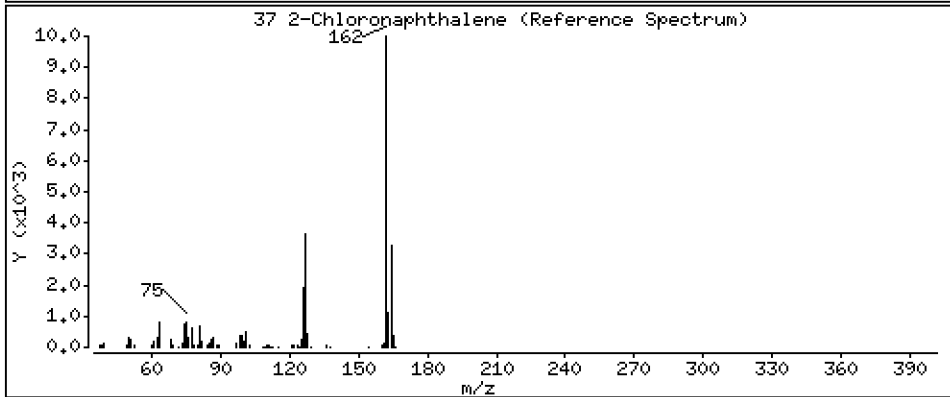
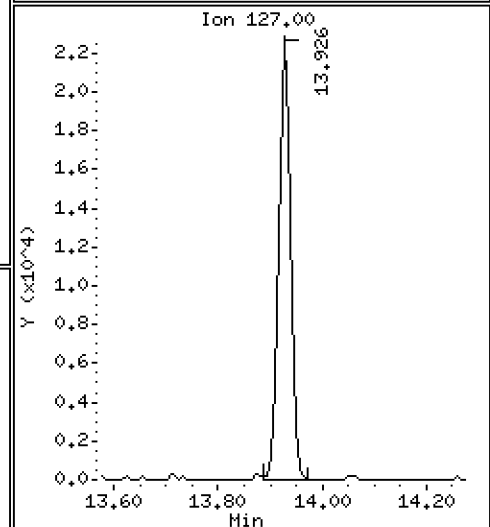
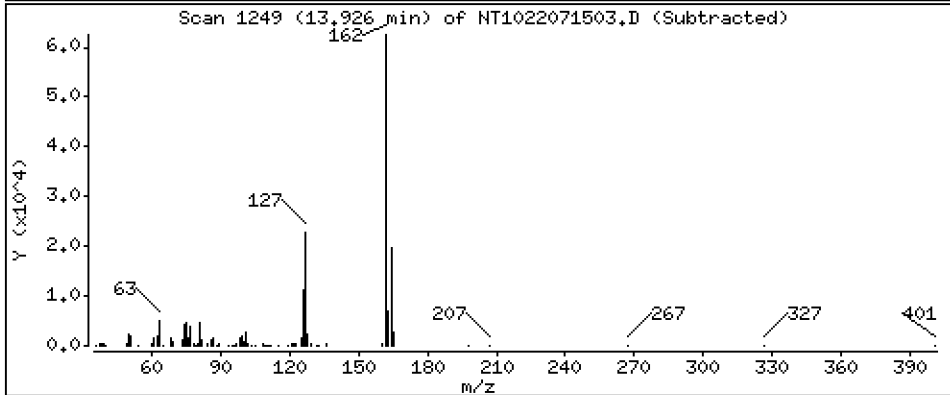
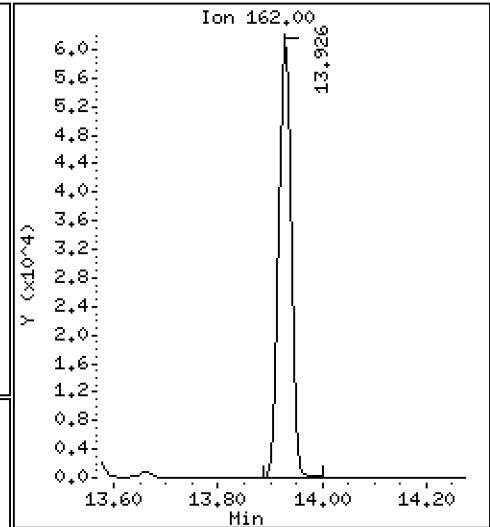
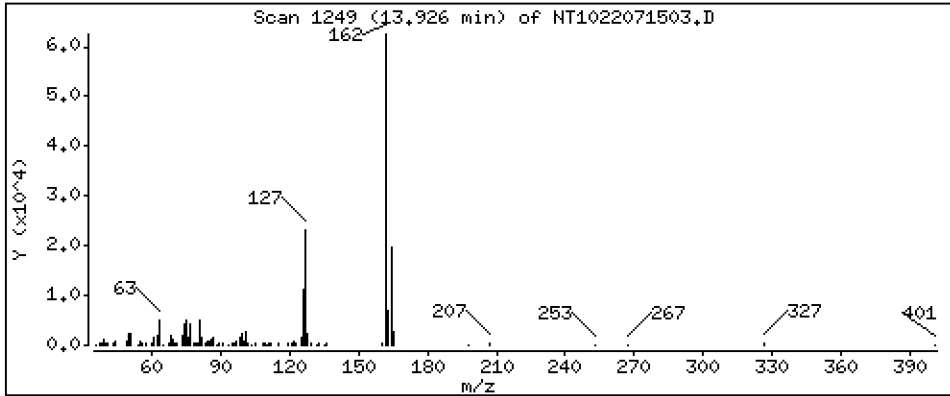
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,6070 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

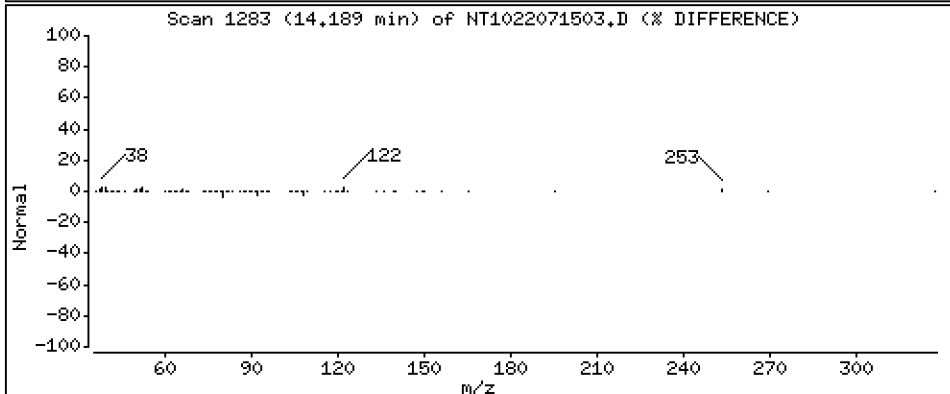
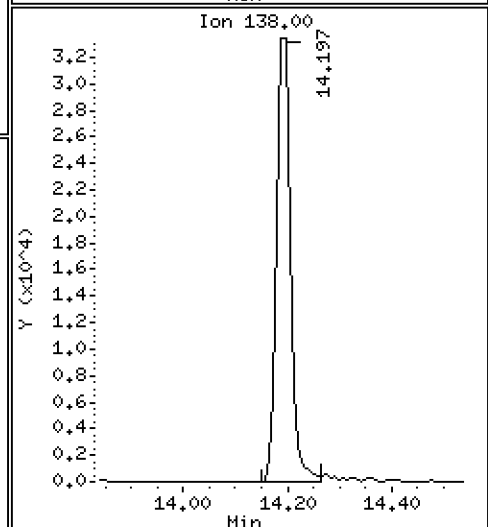
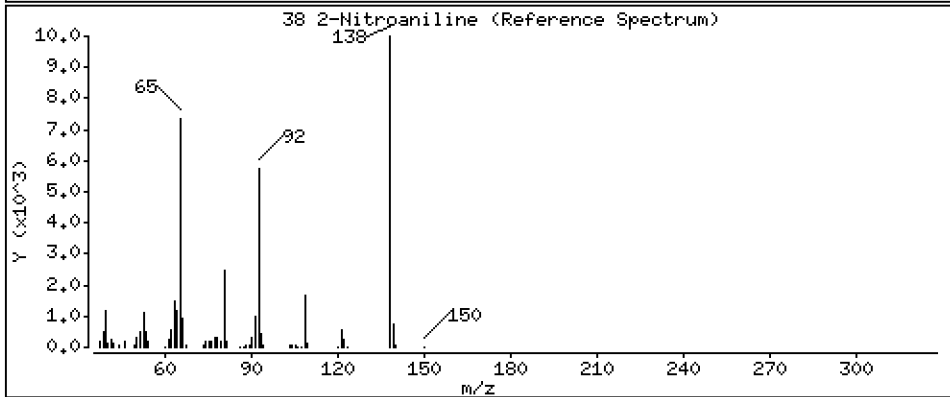
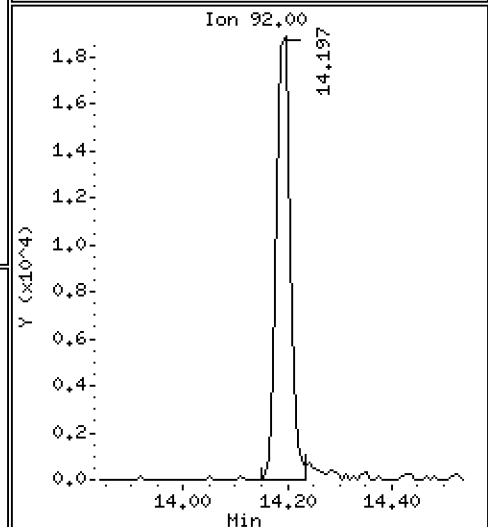
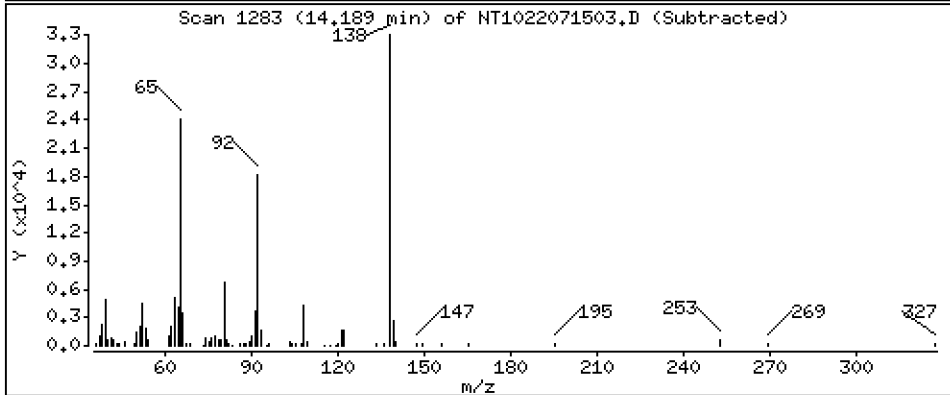
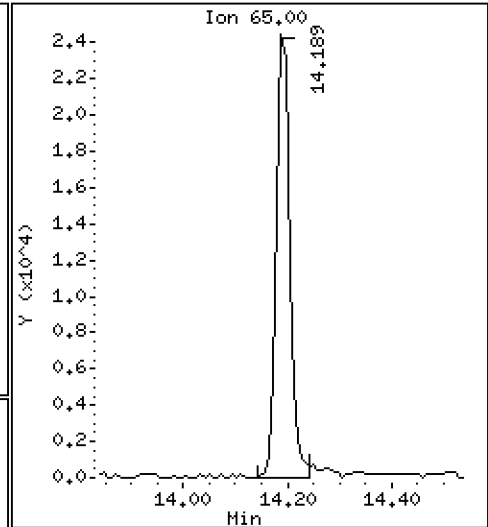
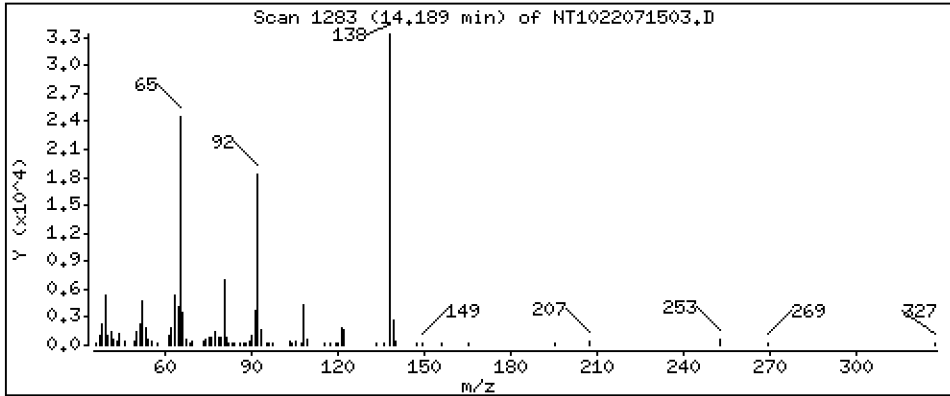
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,9772 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

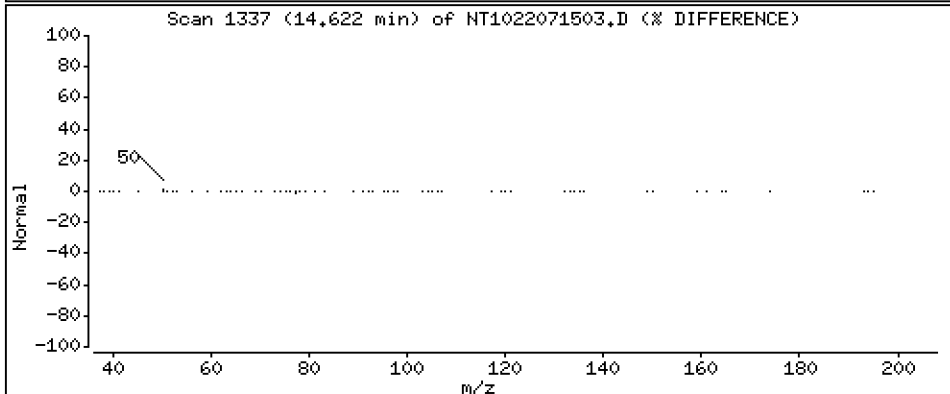
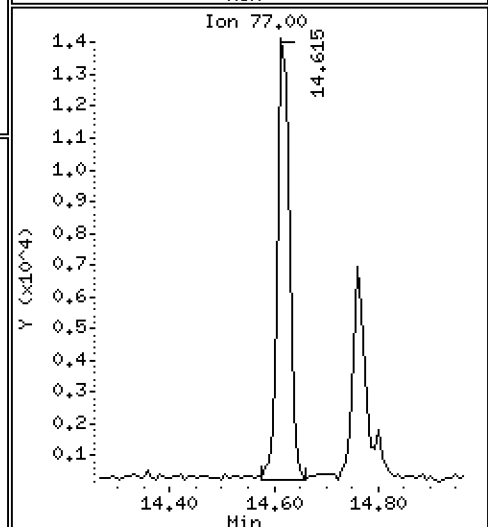
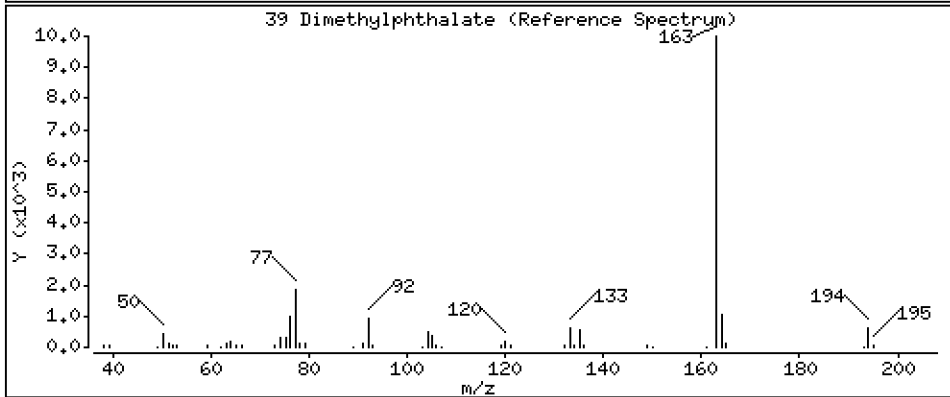
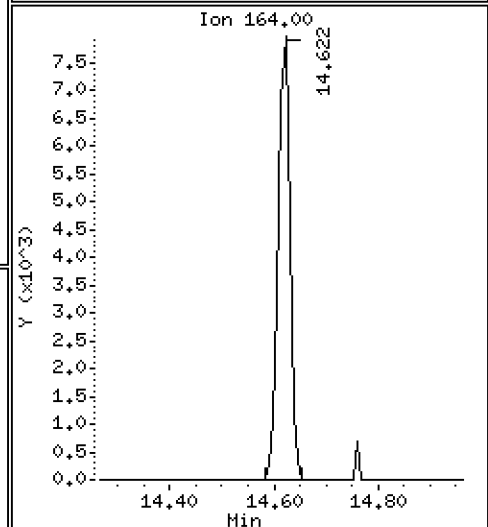
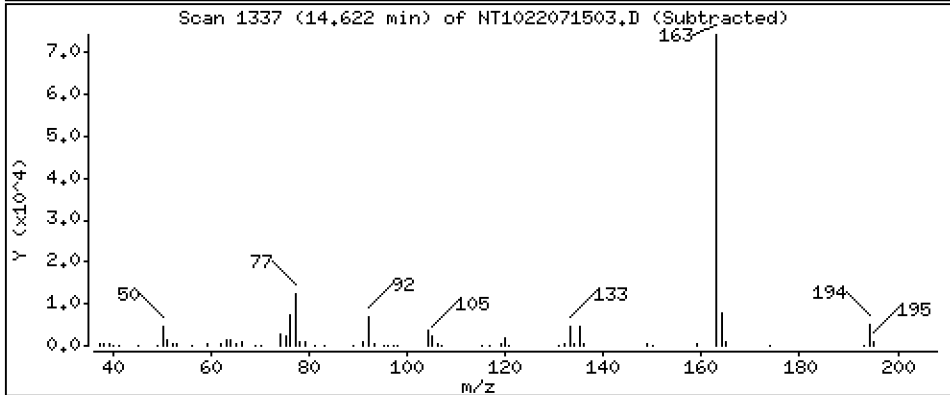
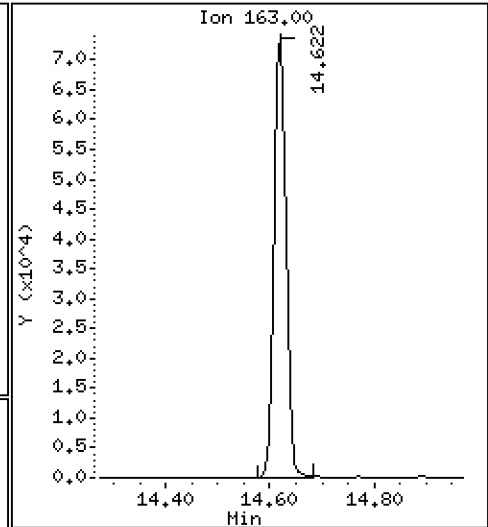
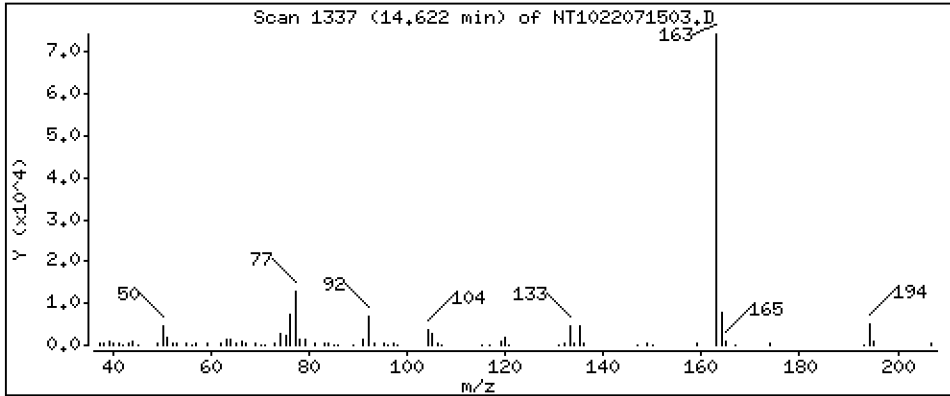
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,7900 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

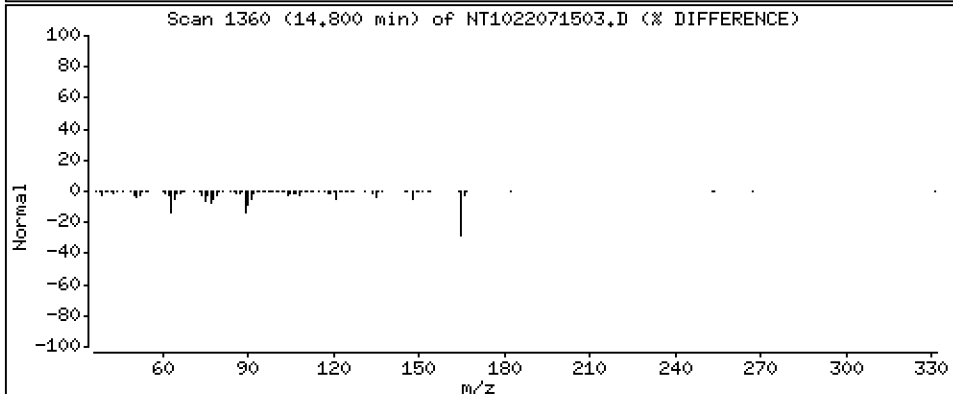
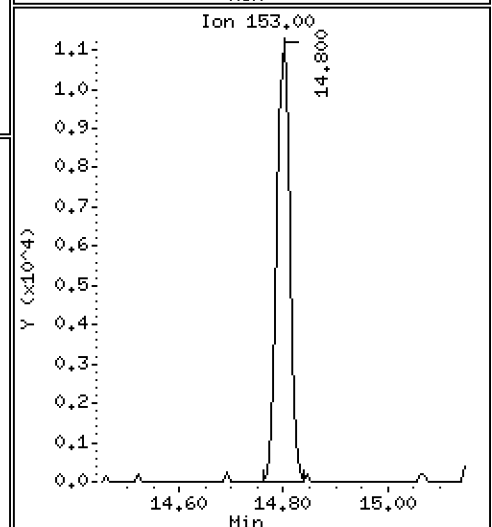
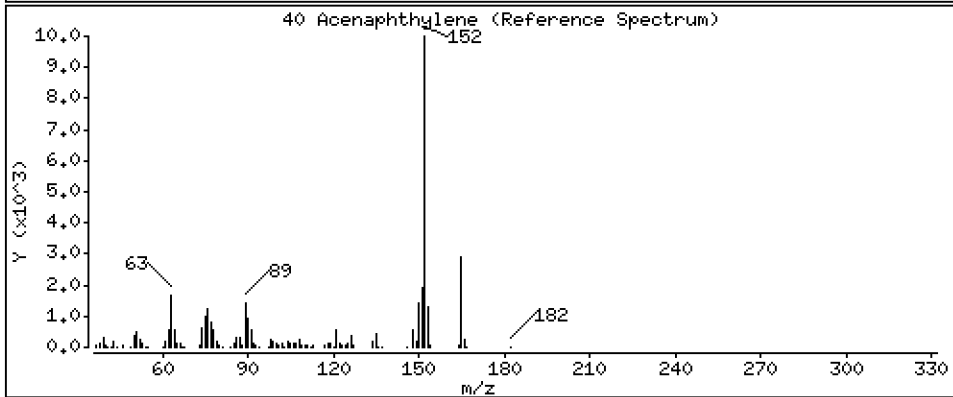
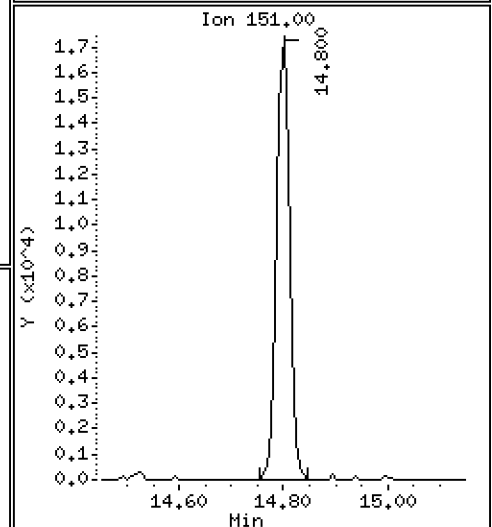
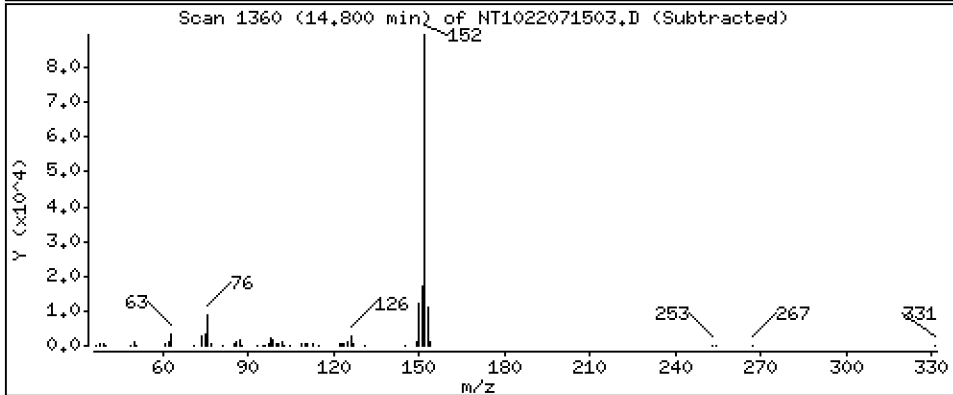
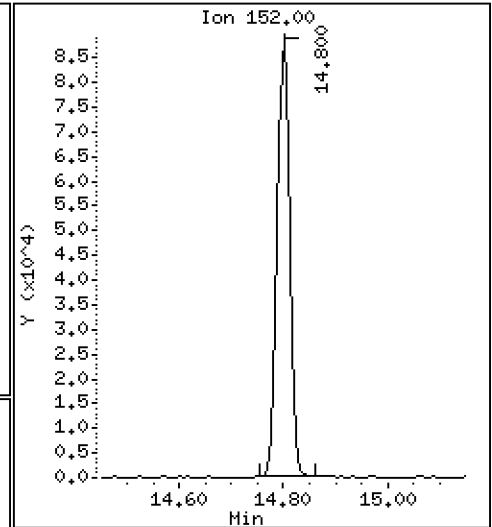
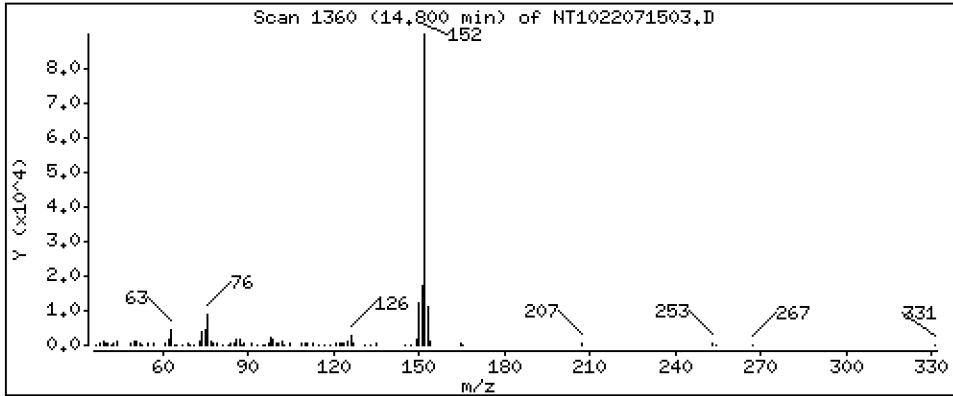
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5963 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

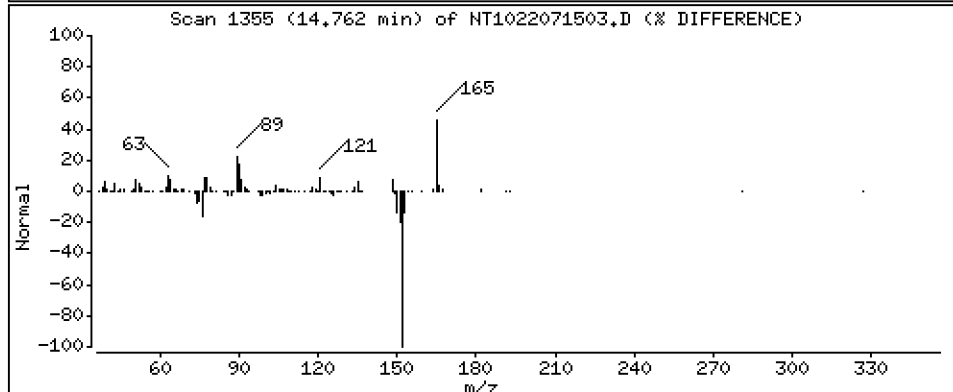
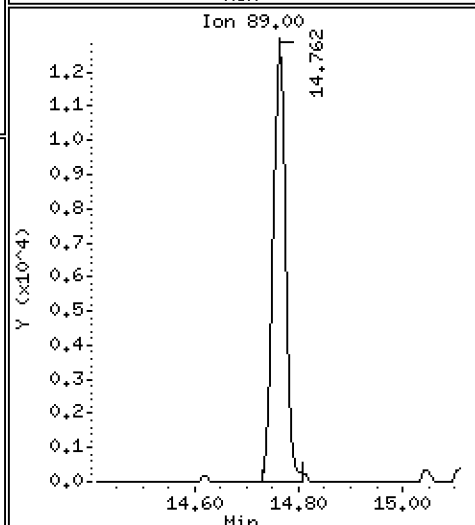
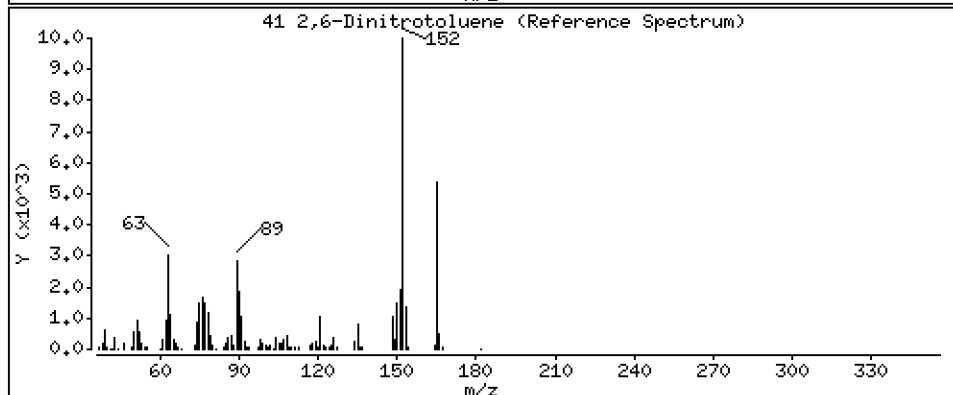
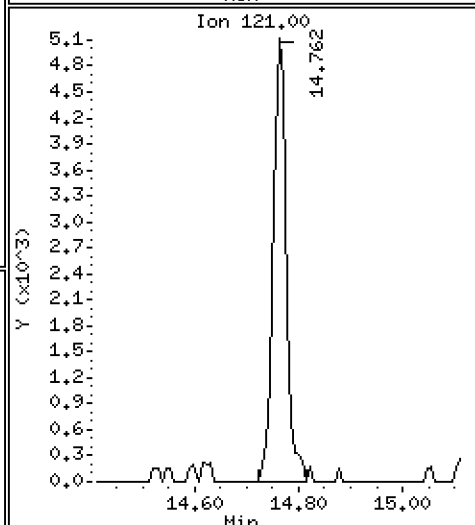
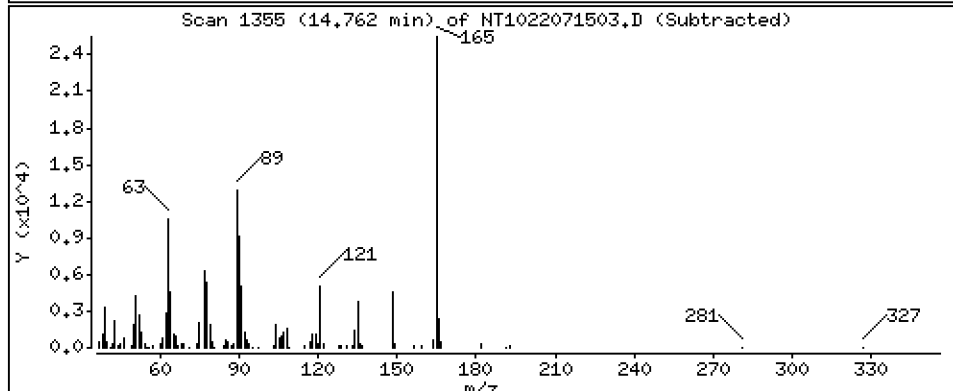
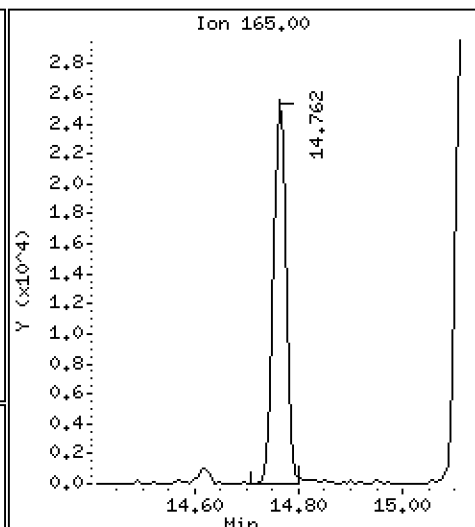
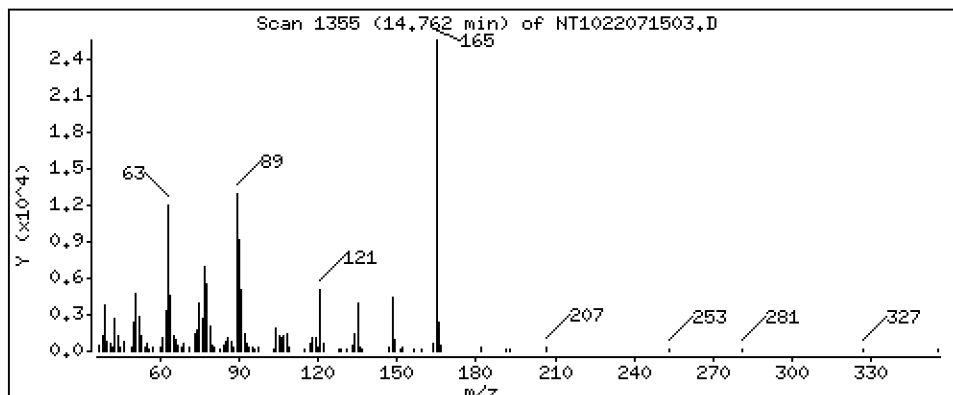
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 1,252 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

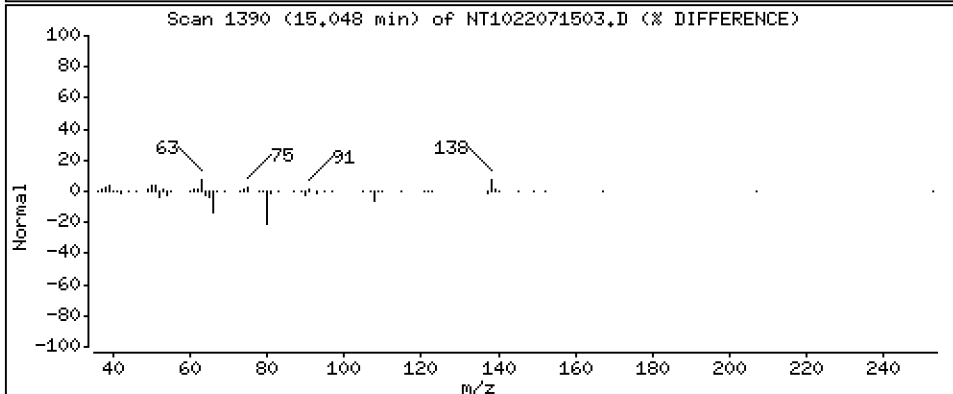
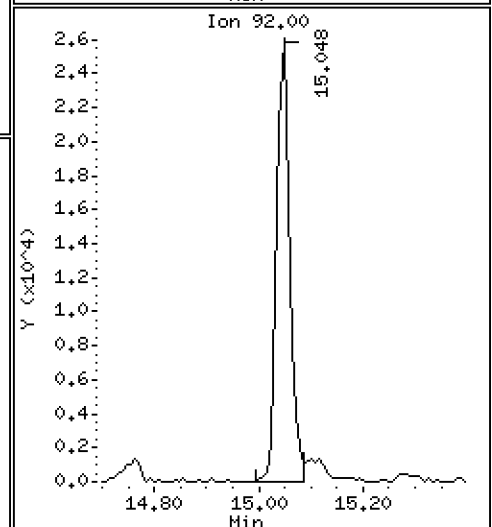
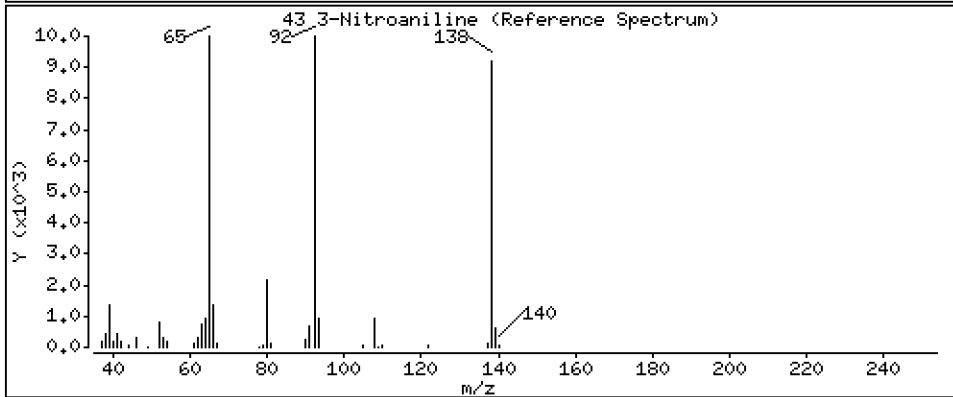
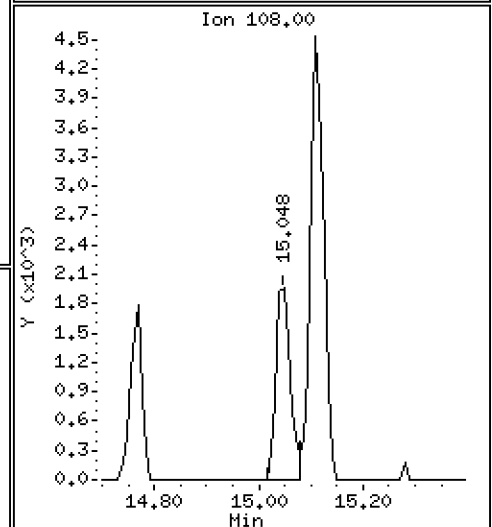
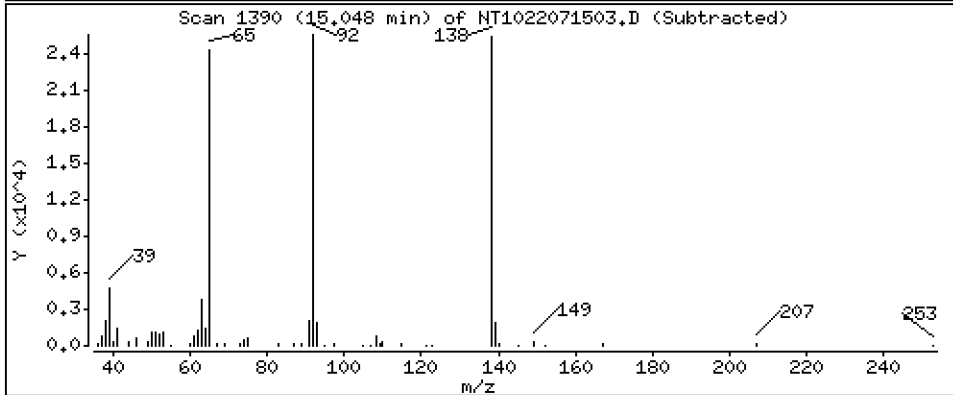
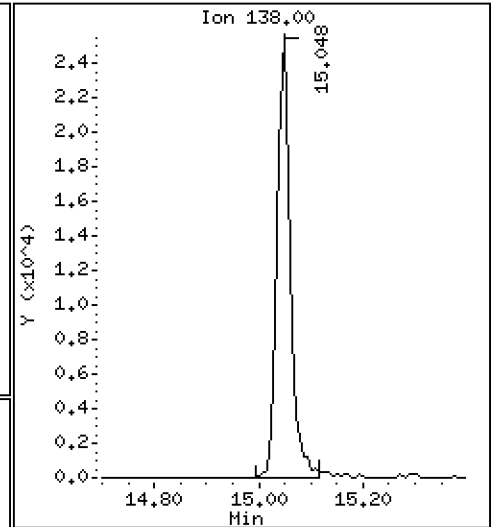
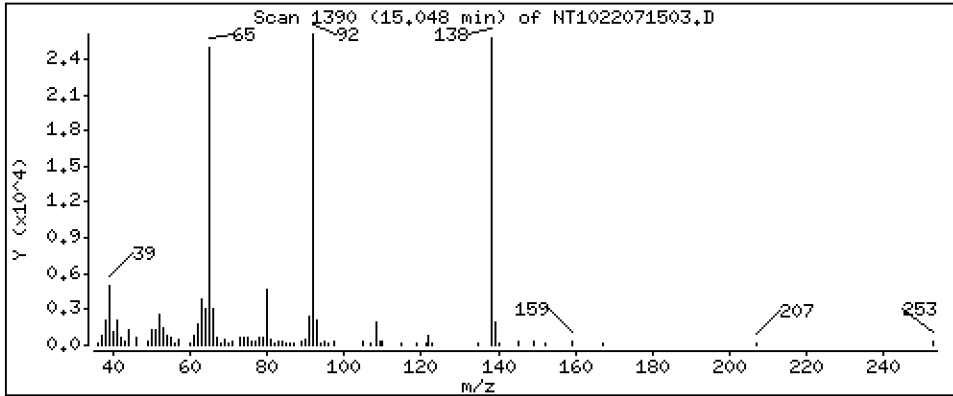
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 1,263 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

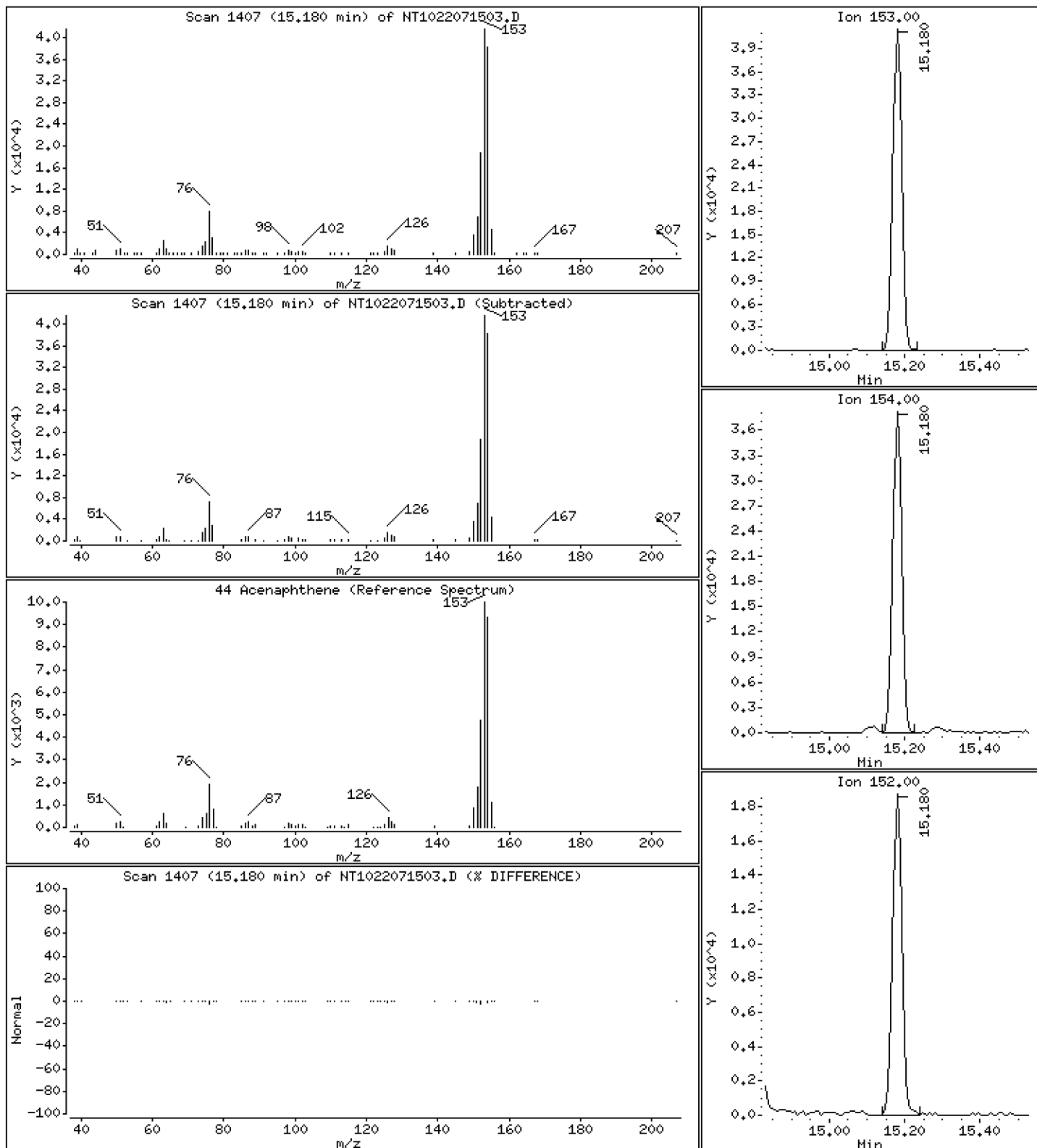
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5630 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

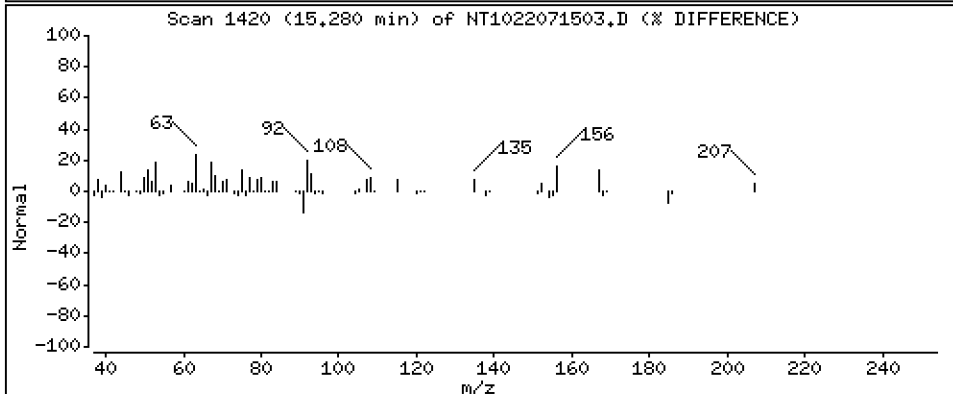
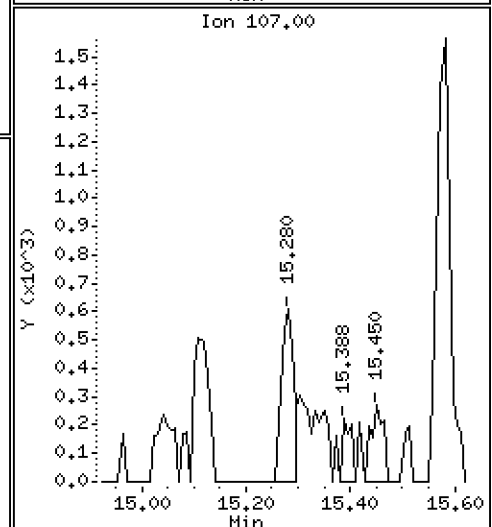
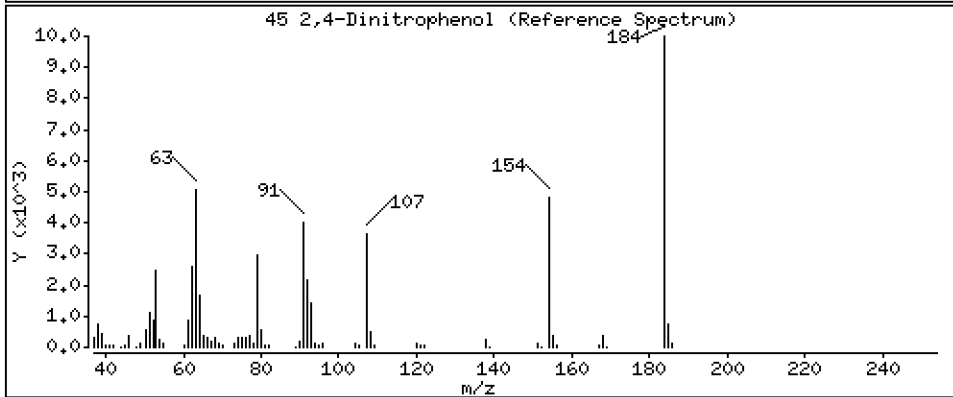
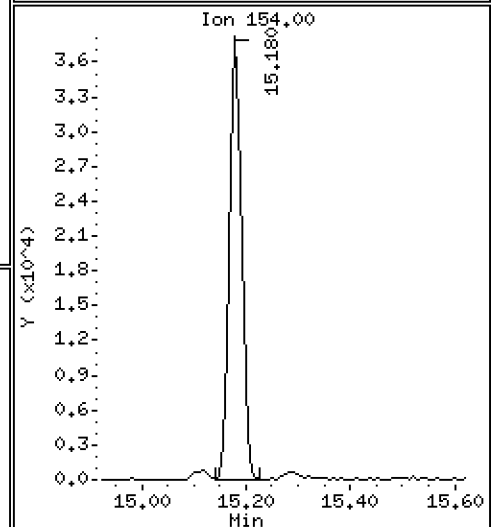
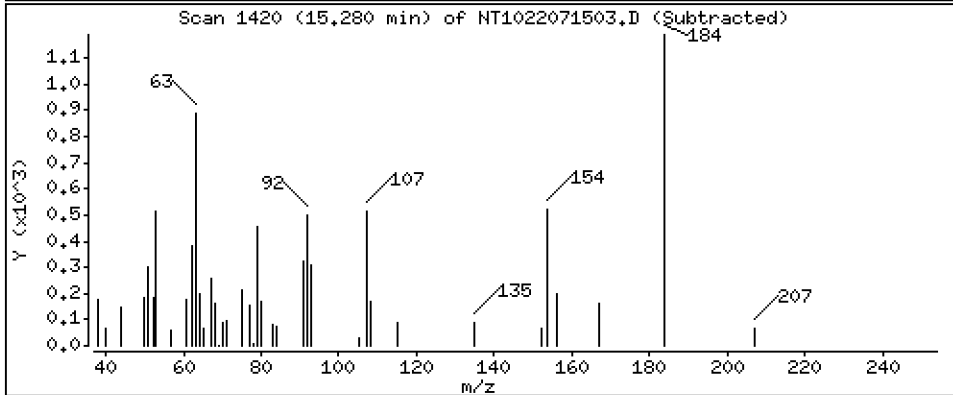
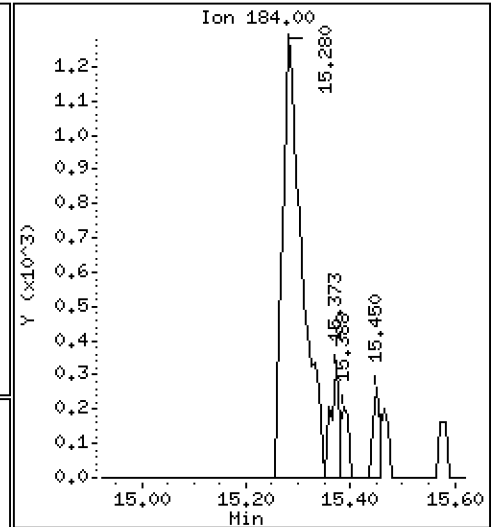
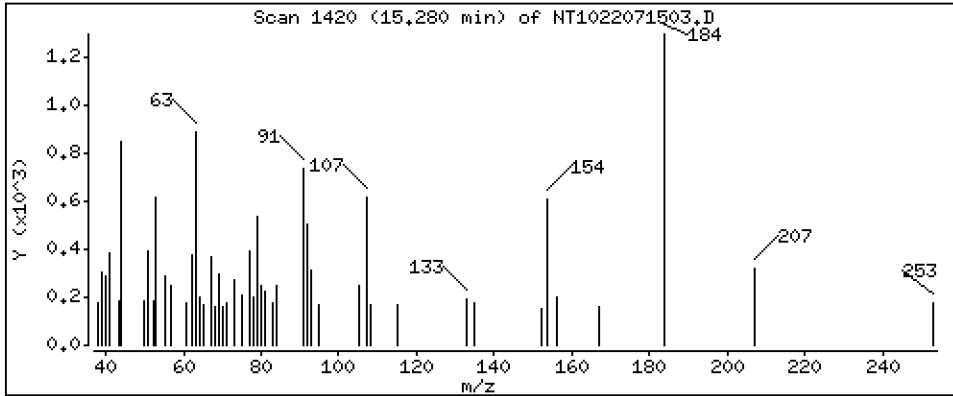
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,2313 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

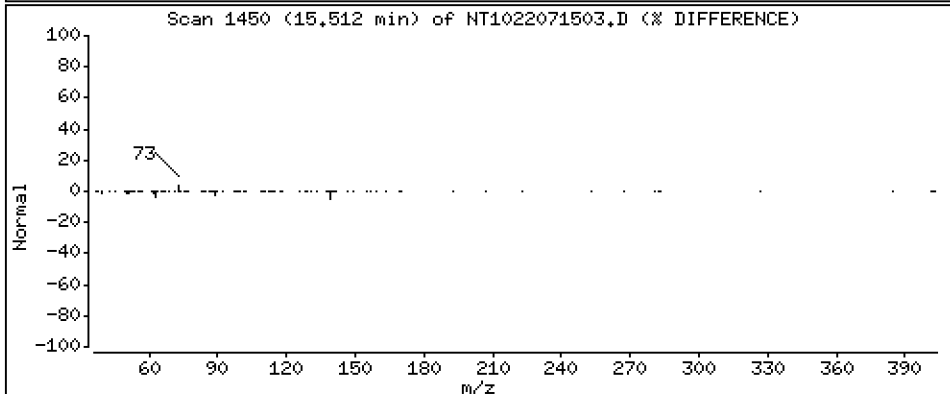
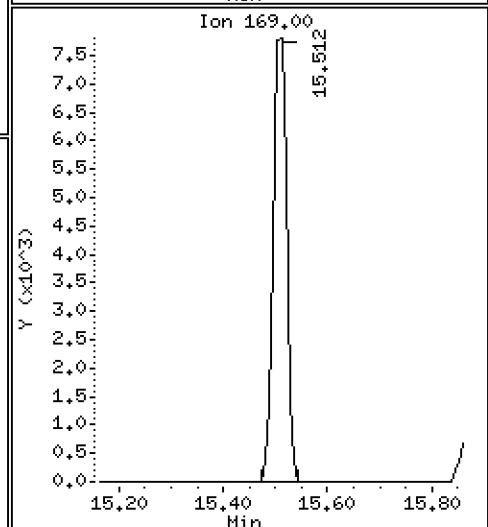
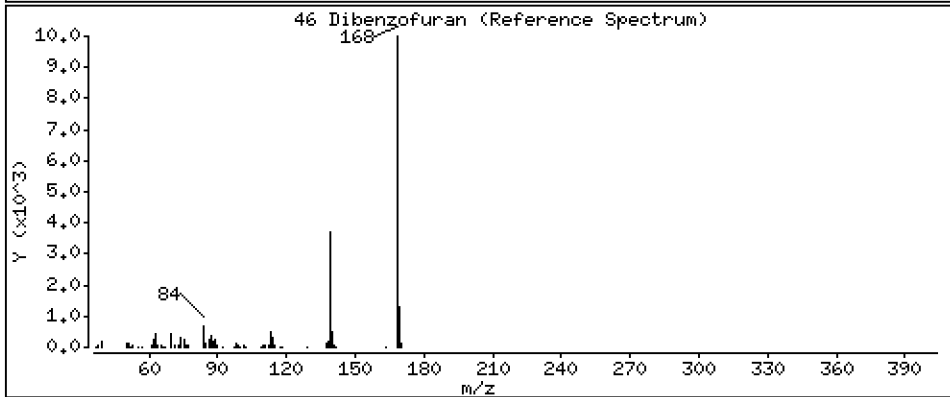
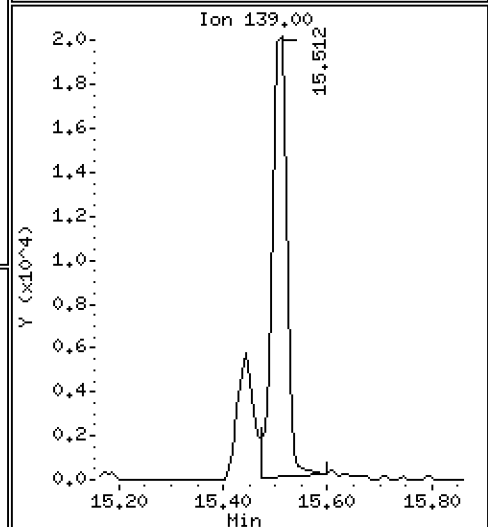
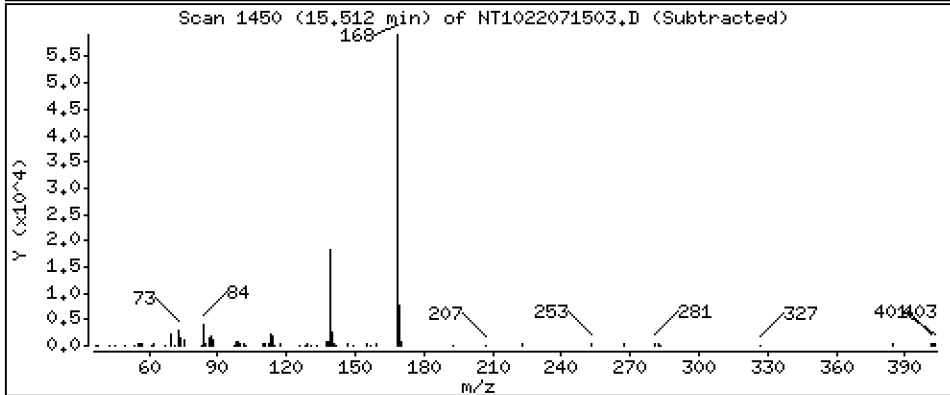
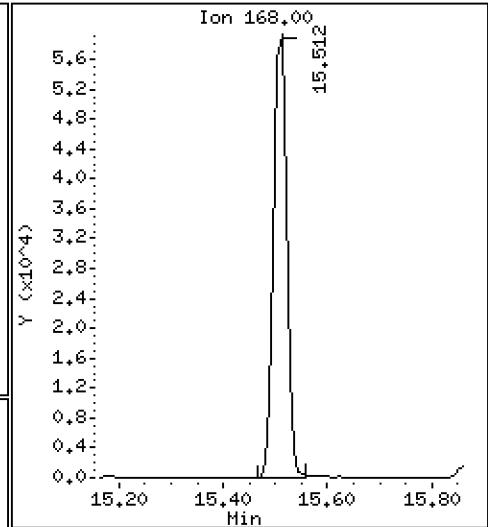
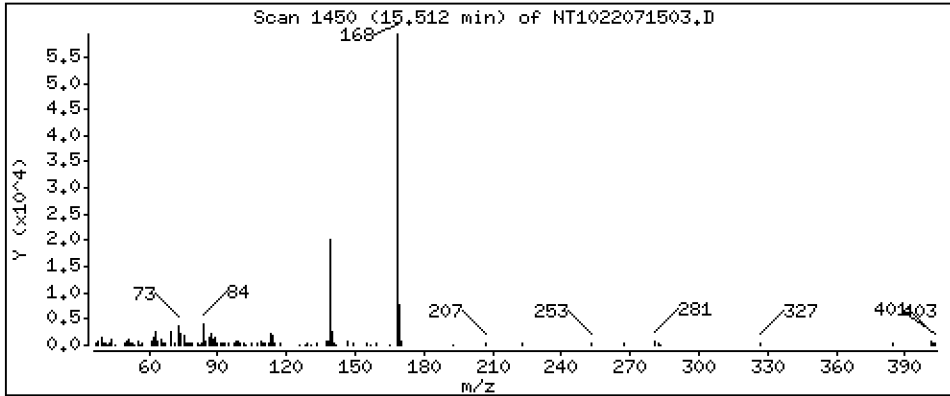
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5322 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

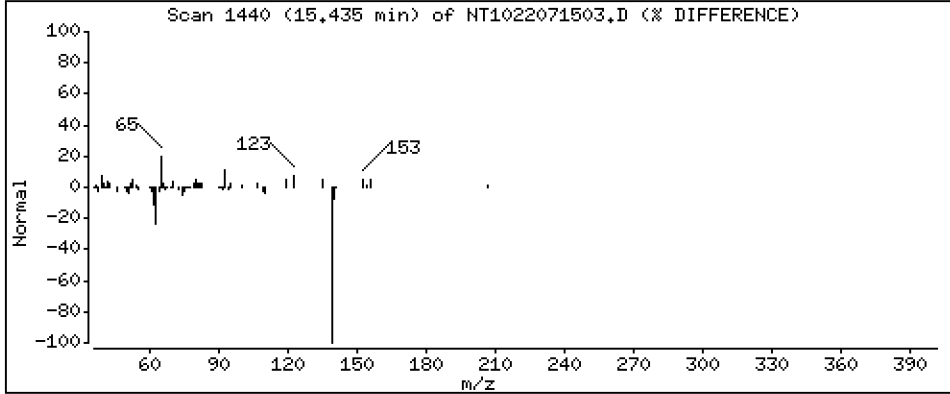
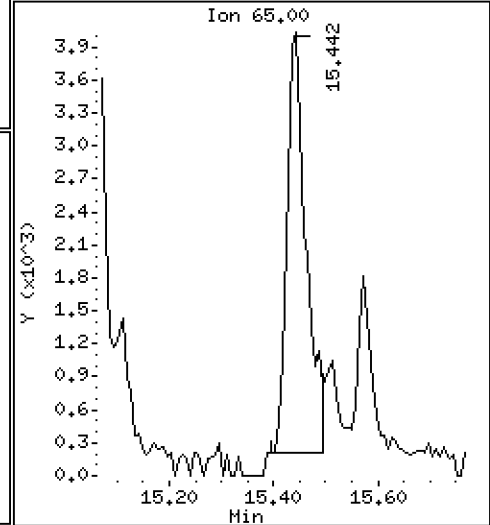
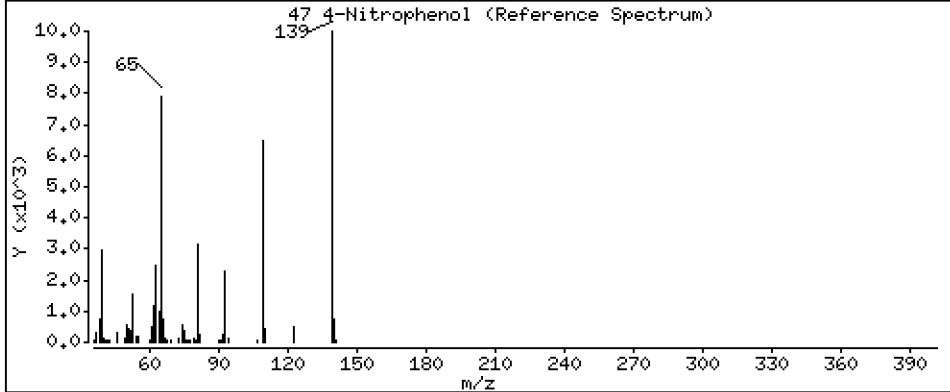
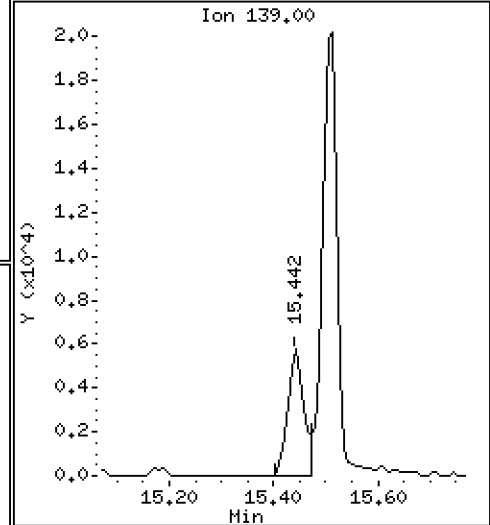
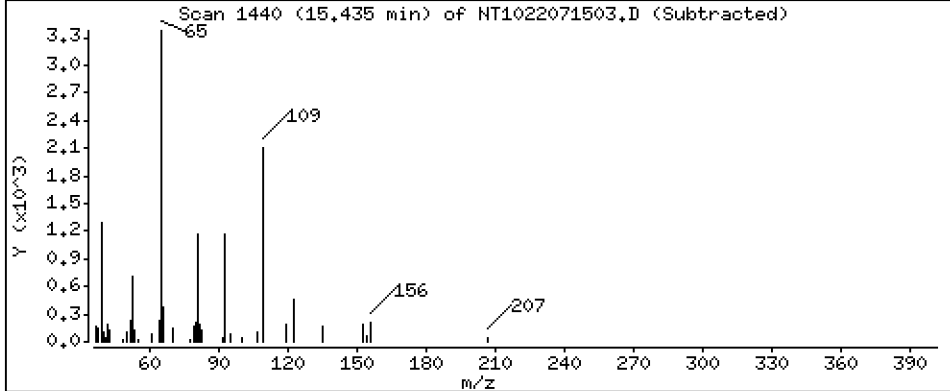
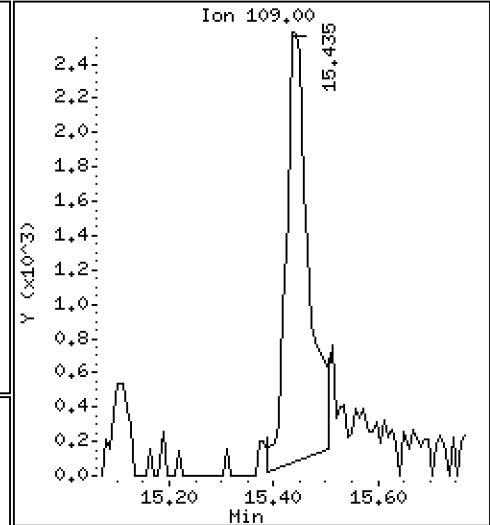
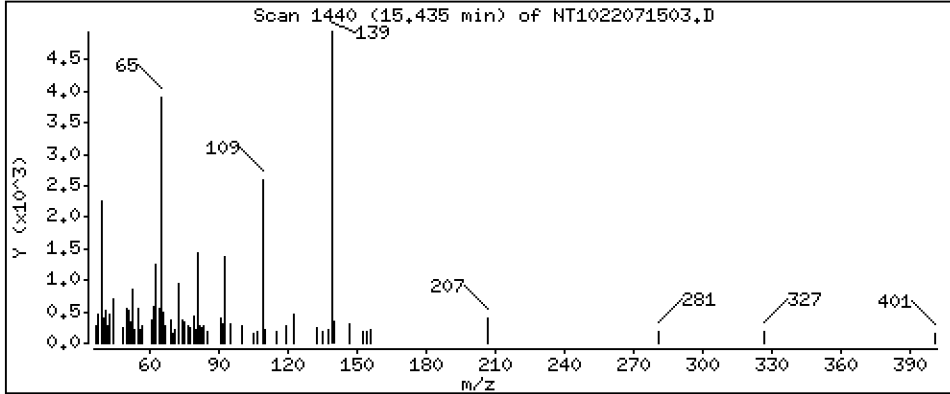
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,5949 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

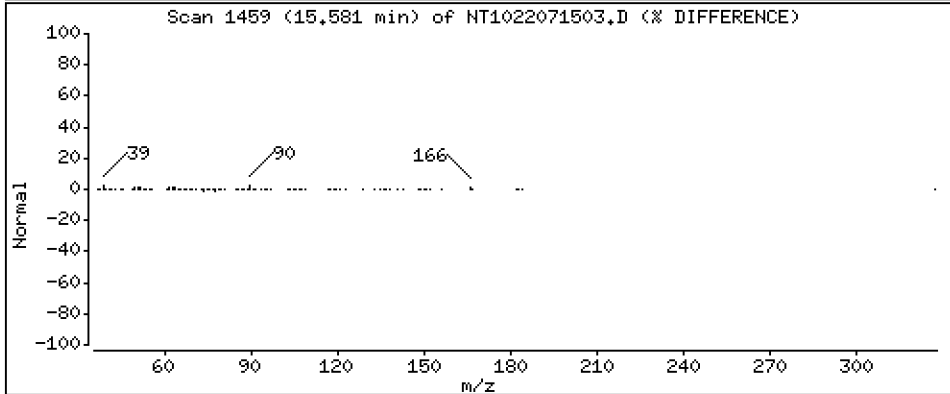
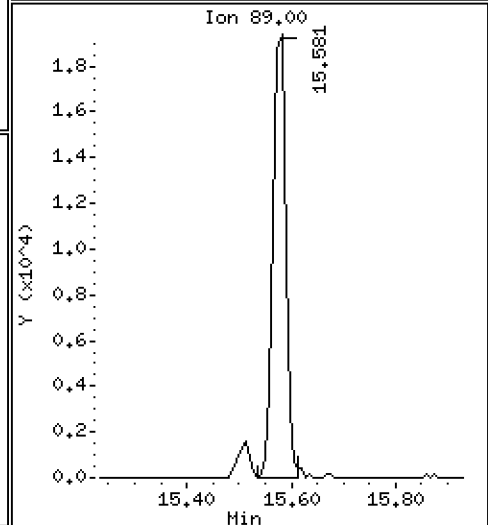
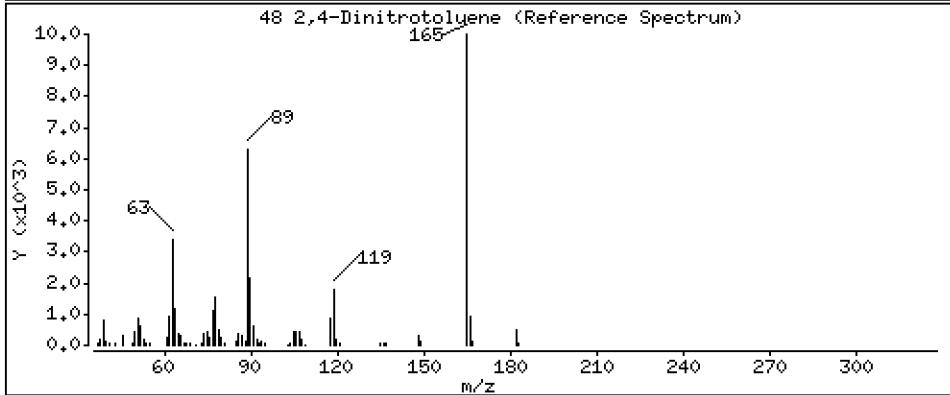
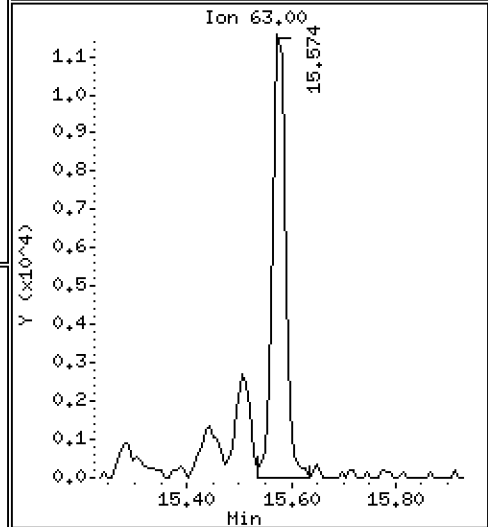
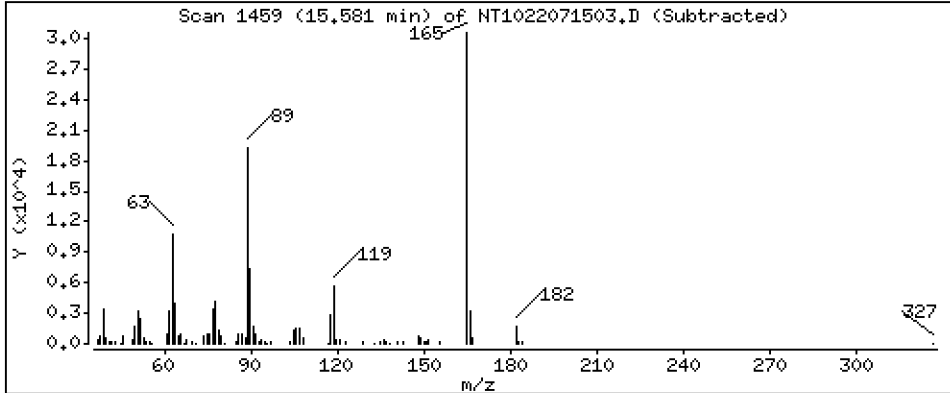
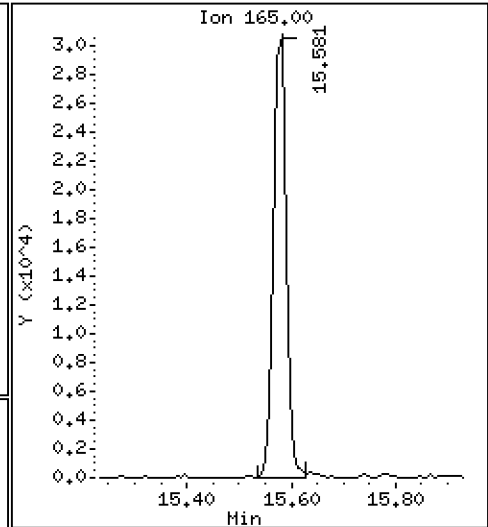
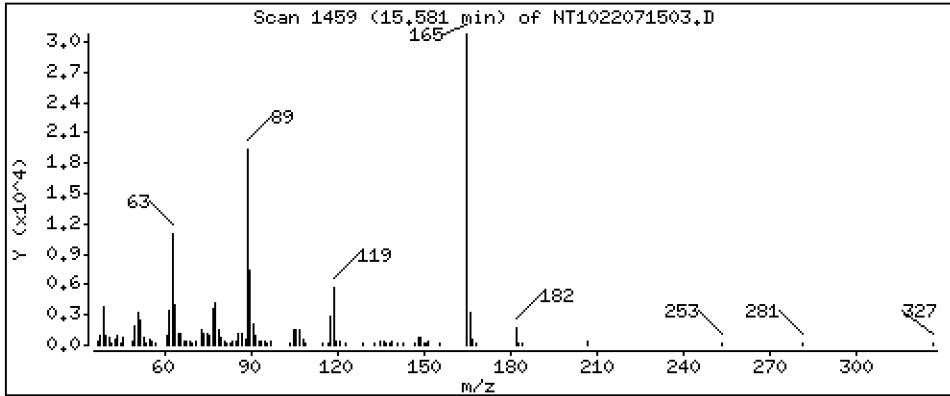
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 1,123 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

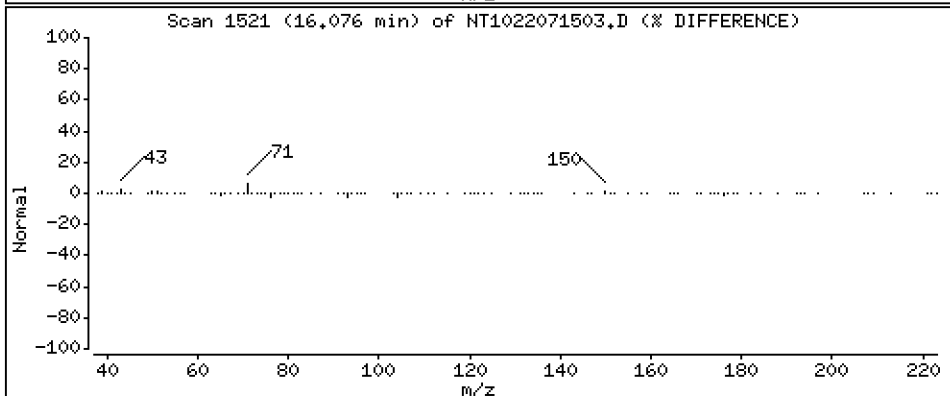
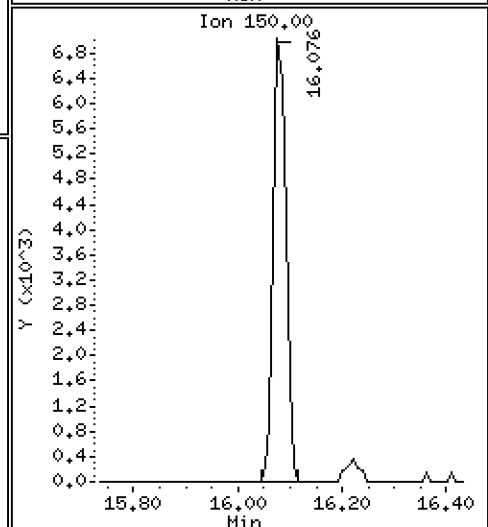
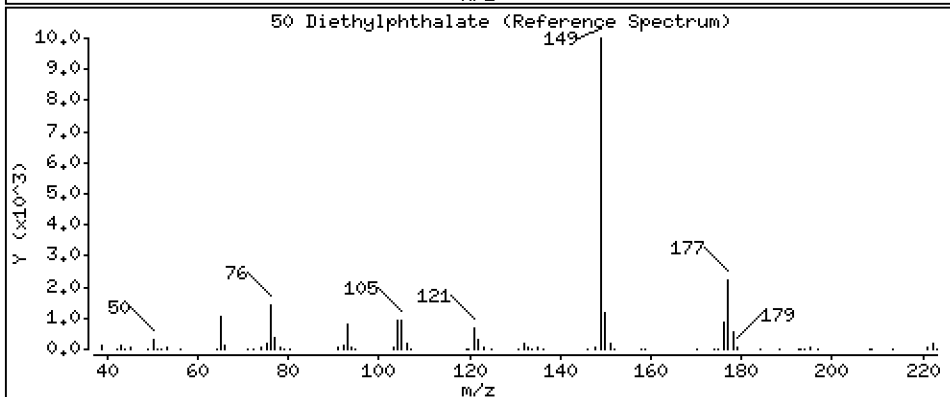
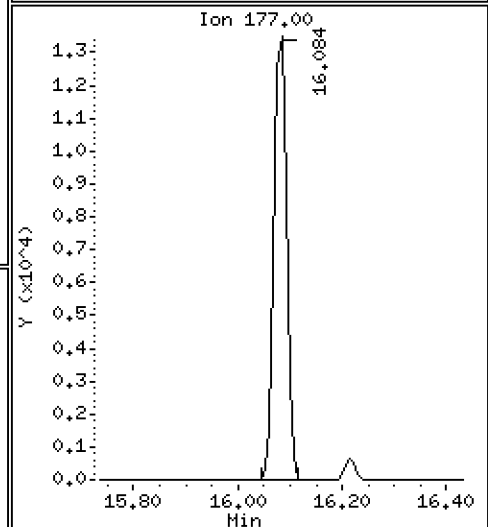
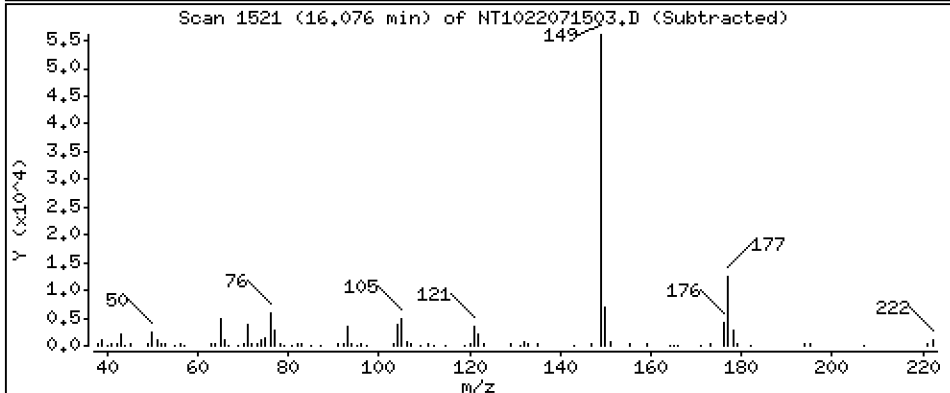
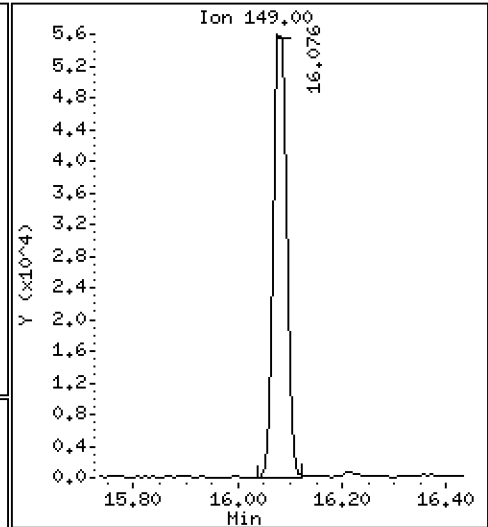
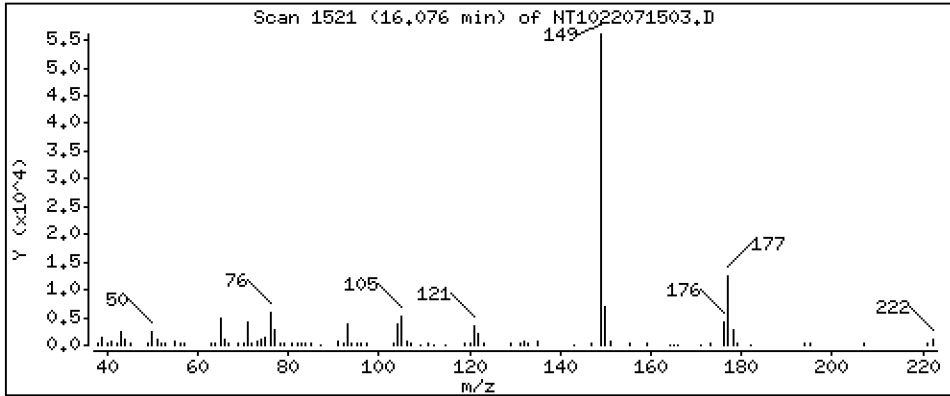
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,7722 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

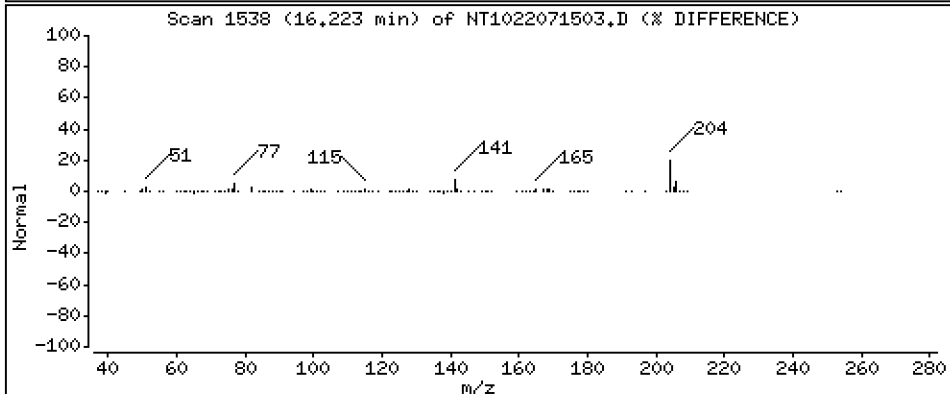
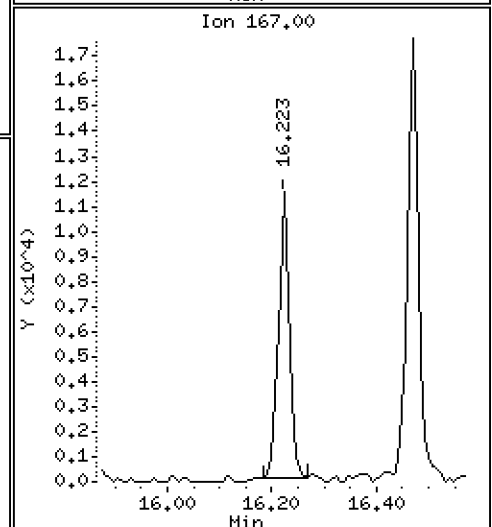
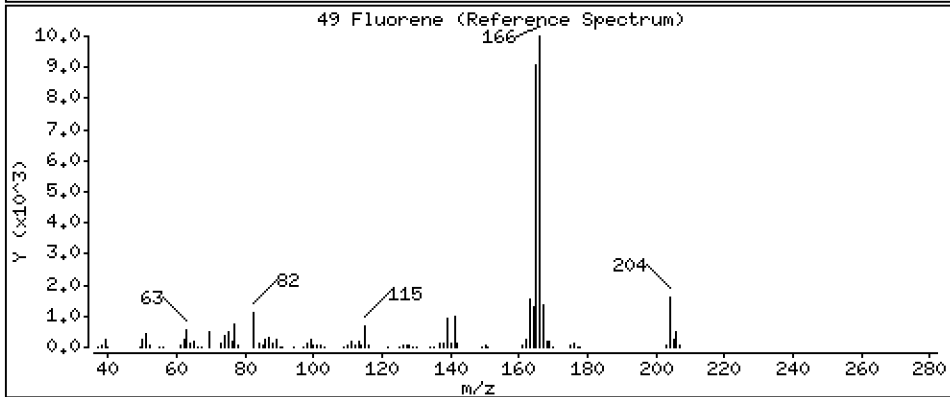
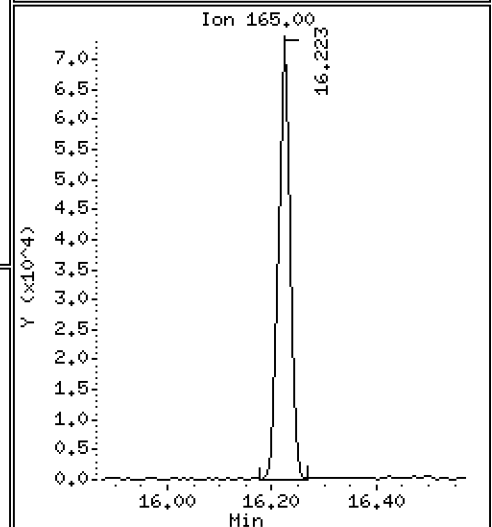
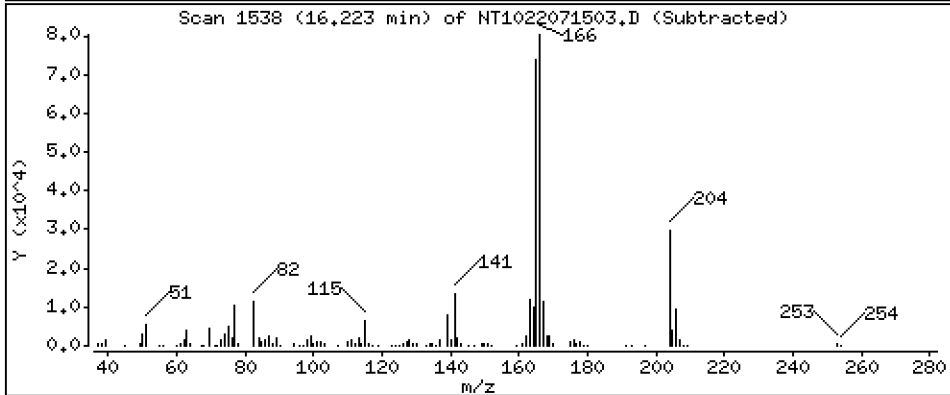
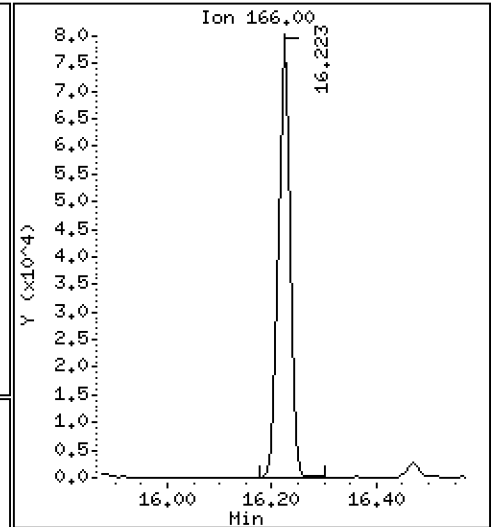
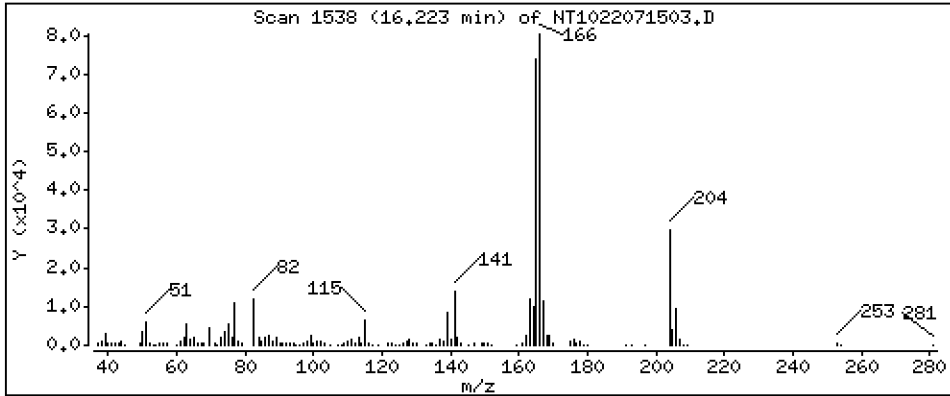
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5479 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

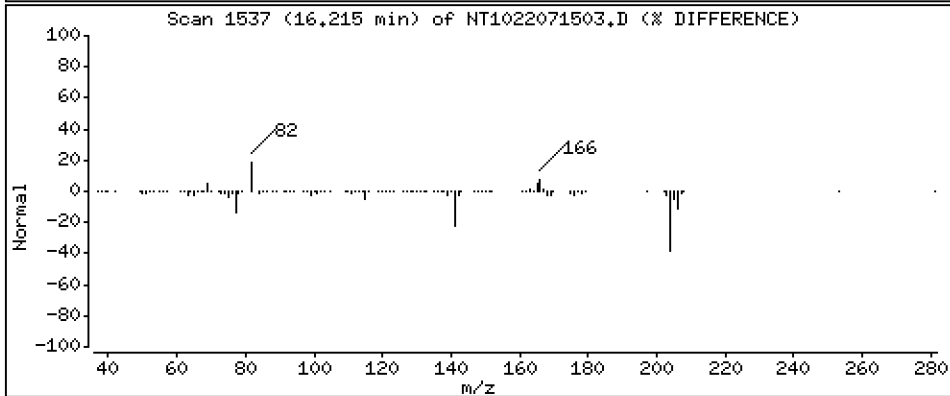
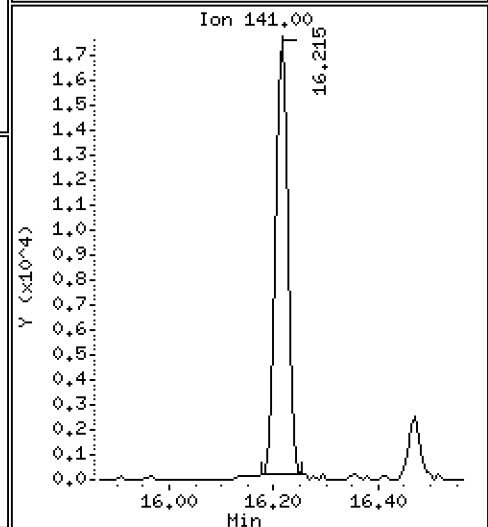
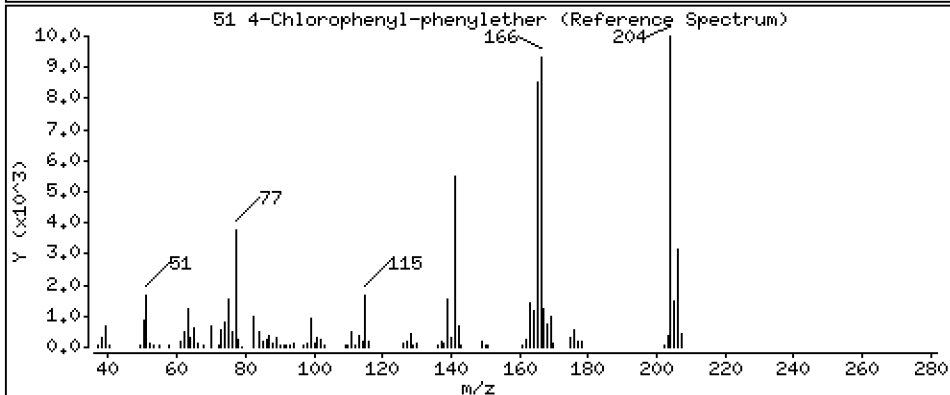
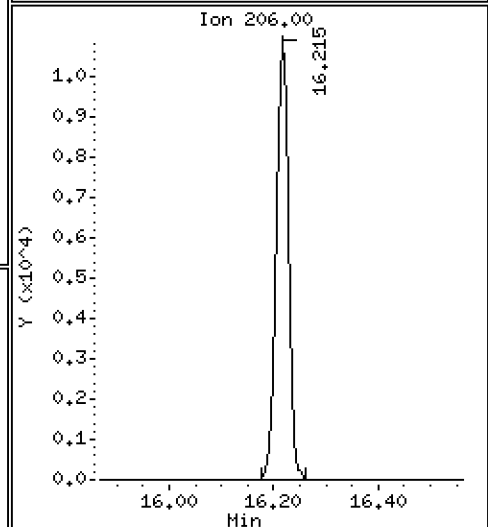
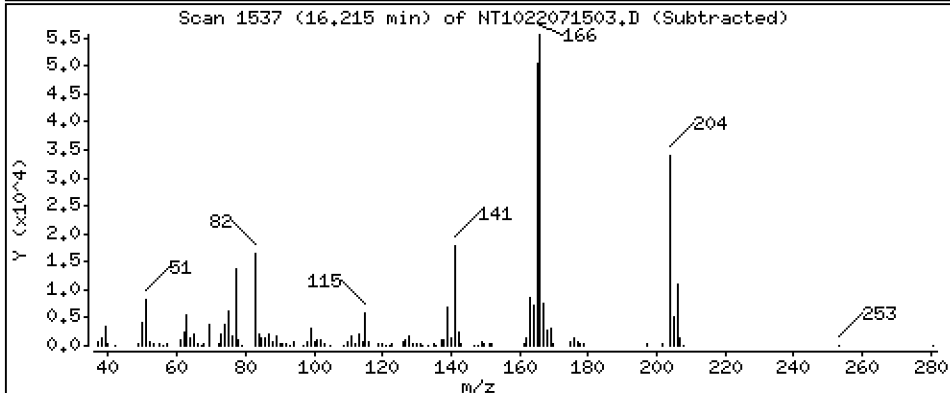
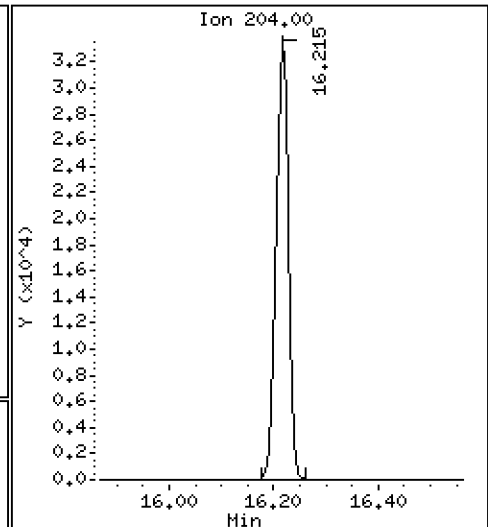
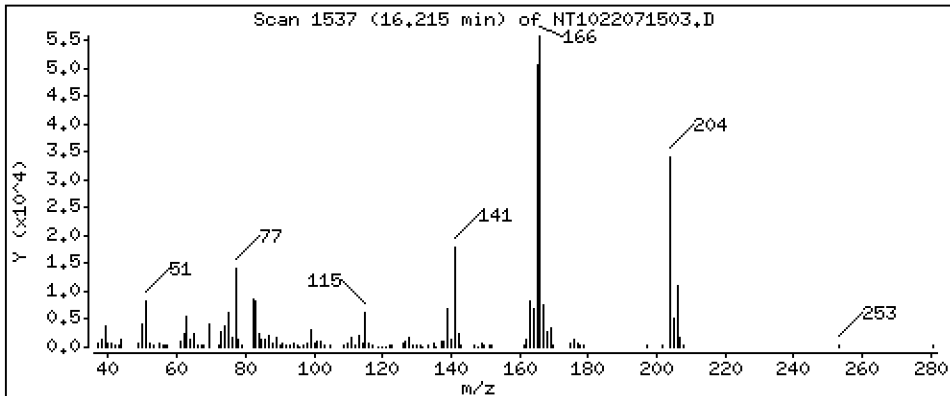
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,5522 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

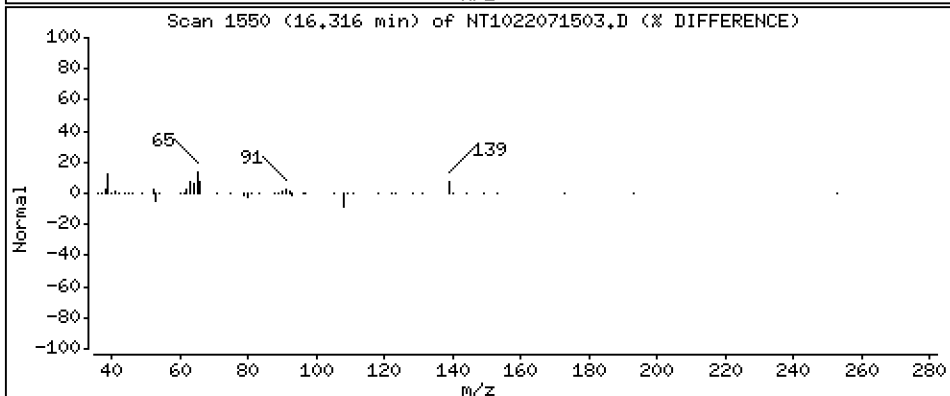
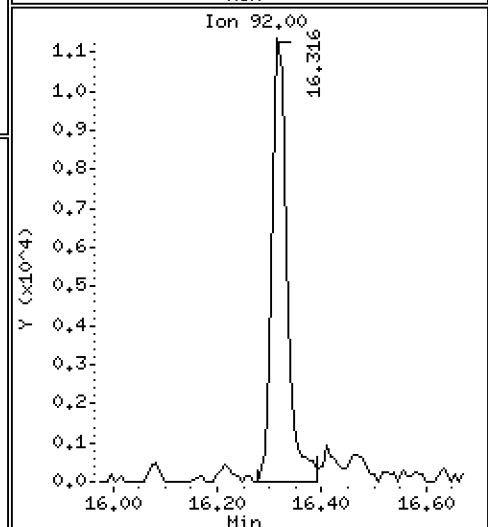
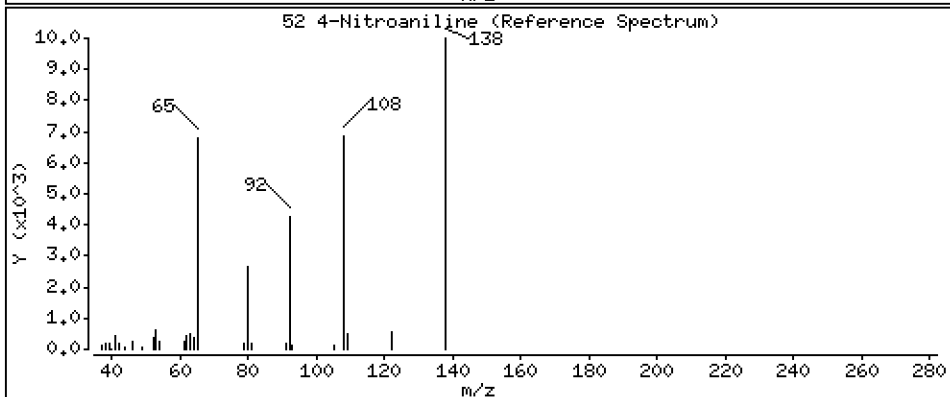
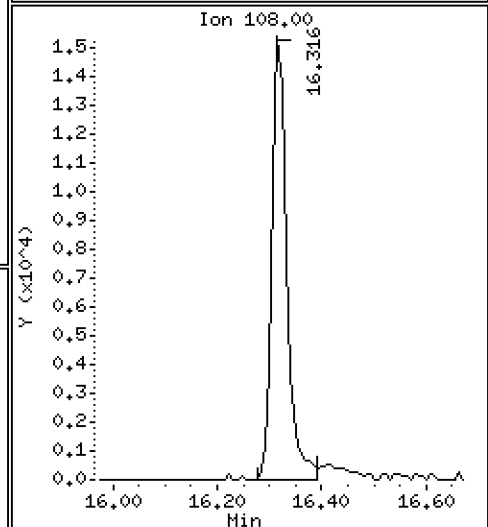
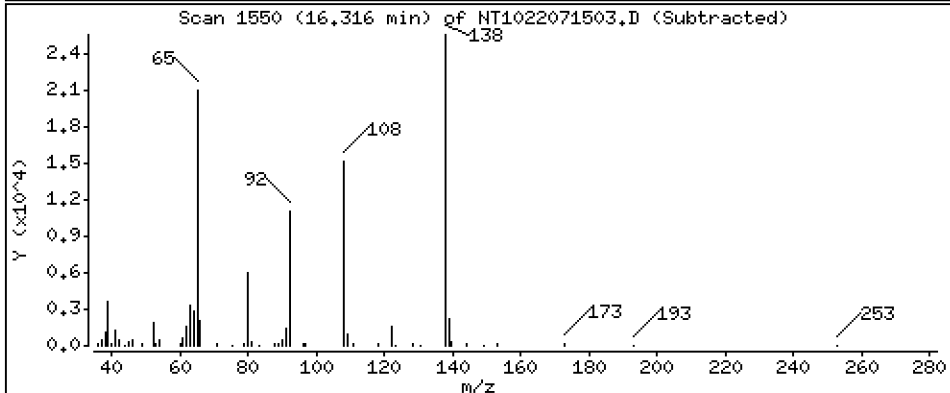
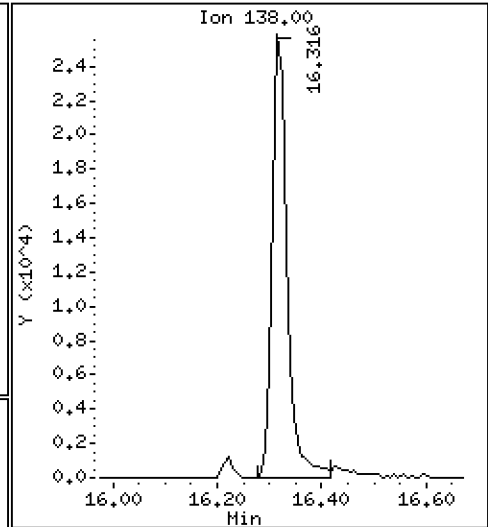
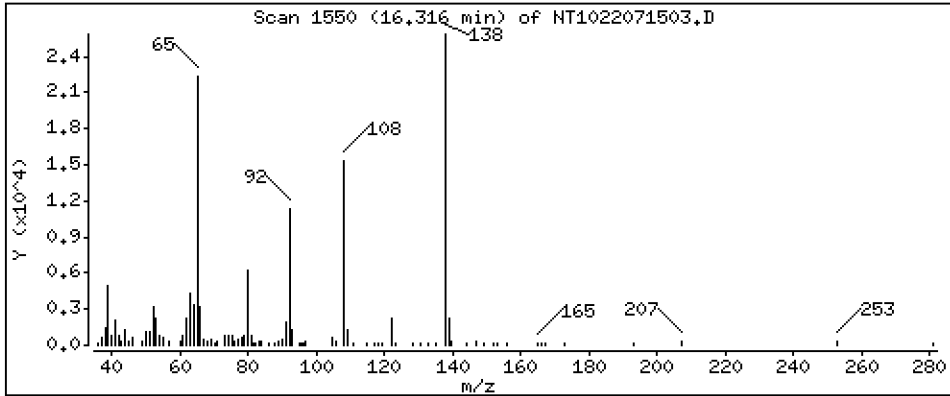
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 1,262 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

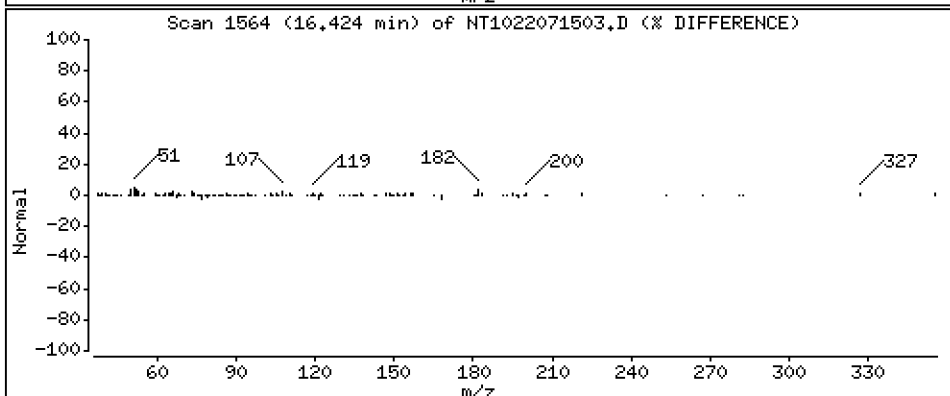
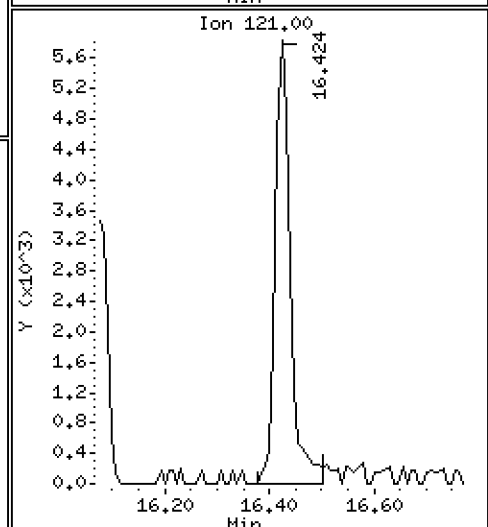
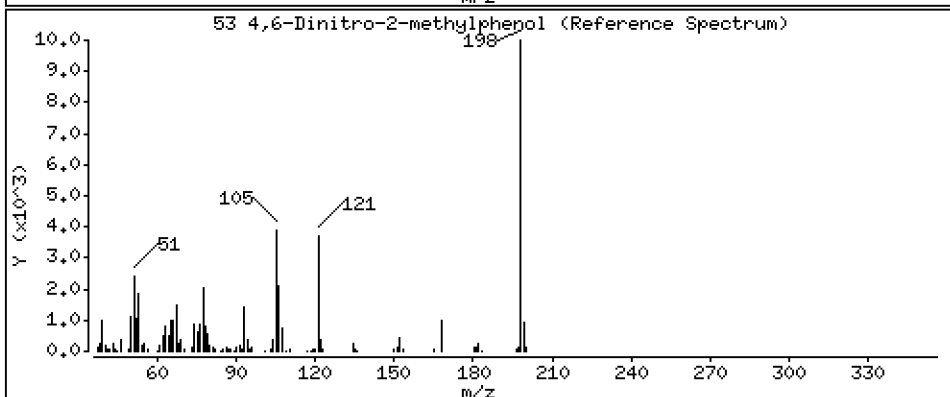
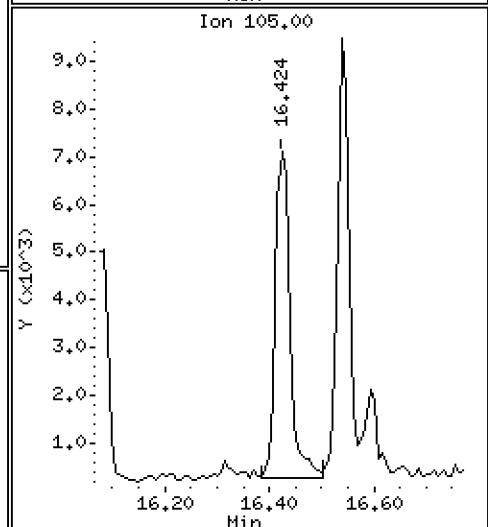
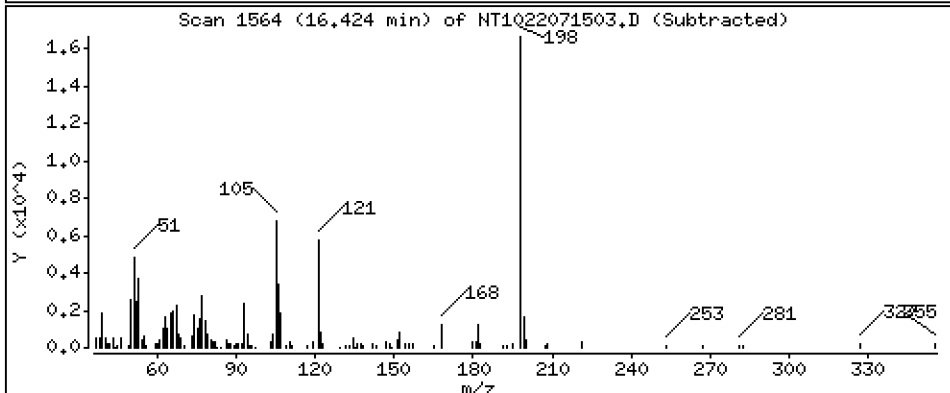
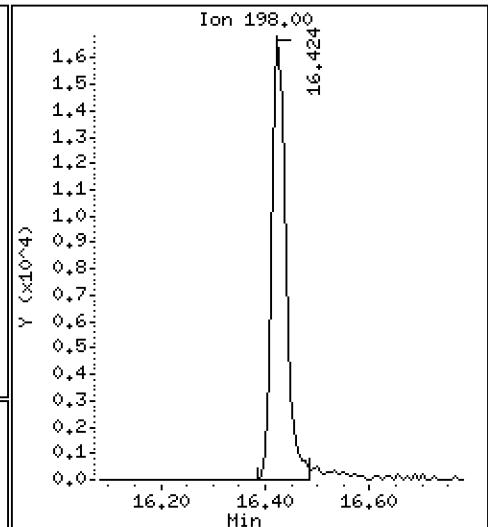
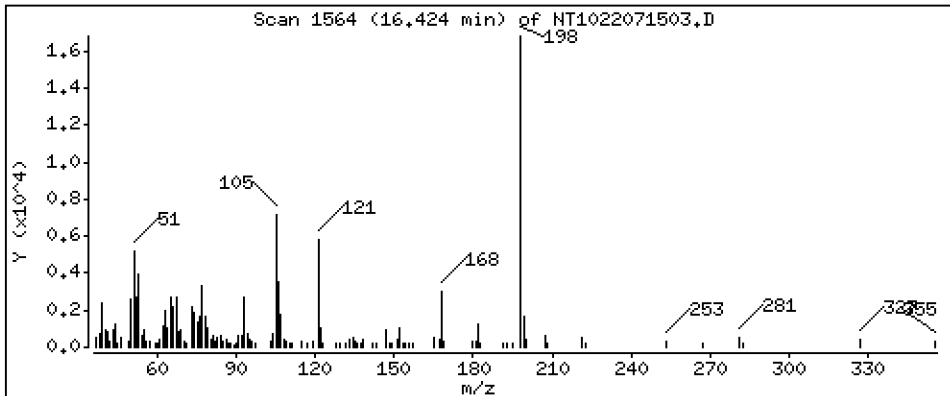
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 1,138 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

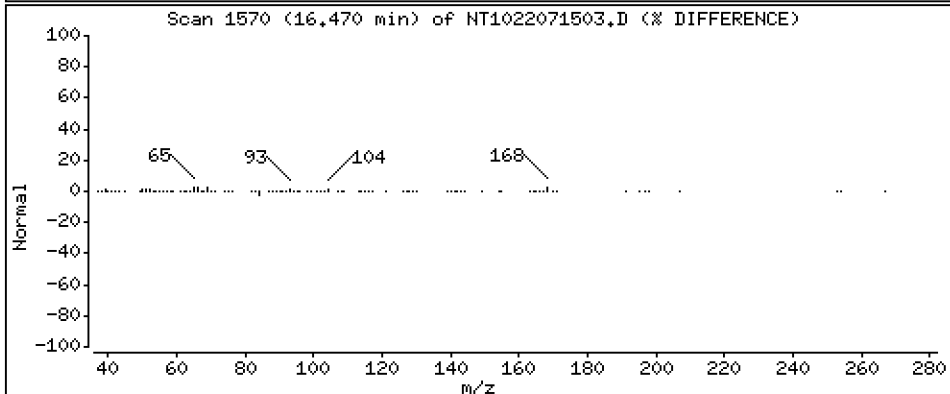
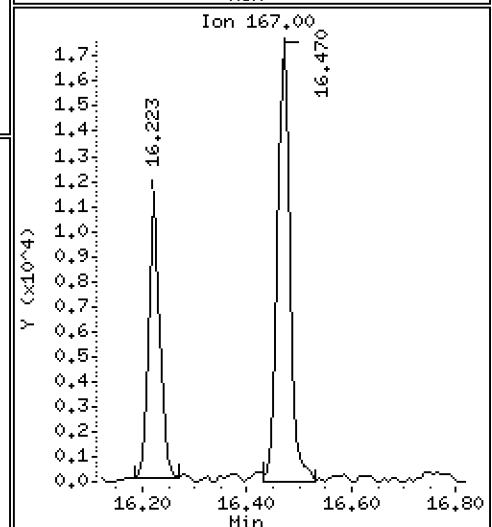
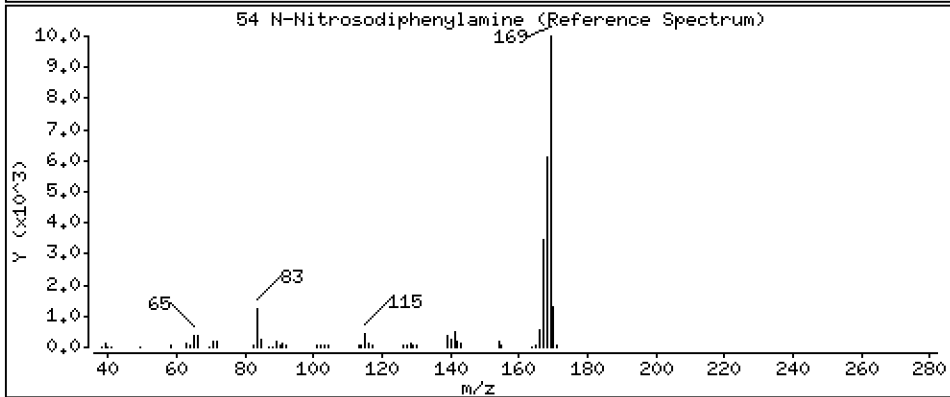
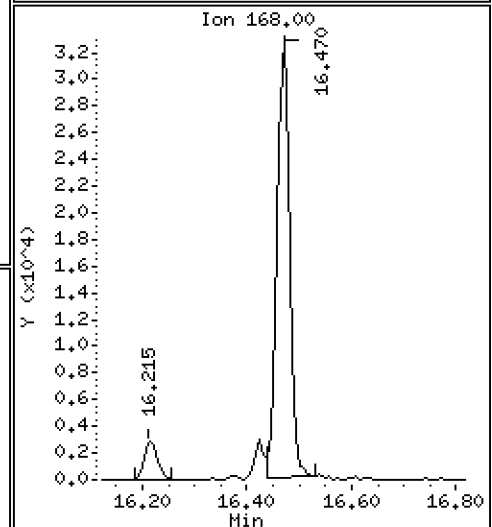
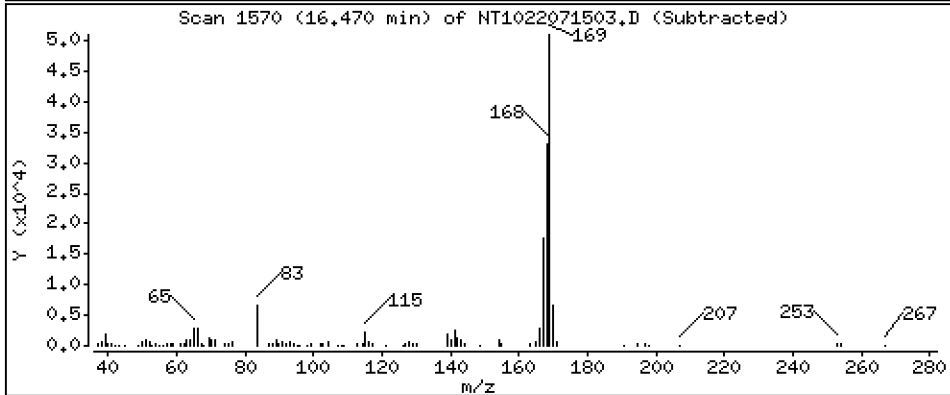
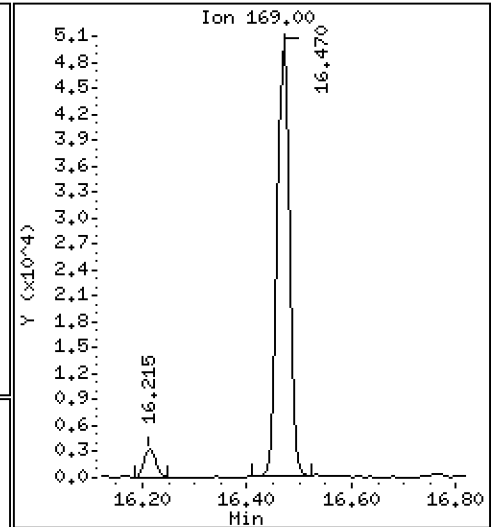
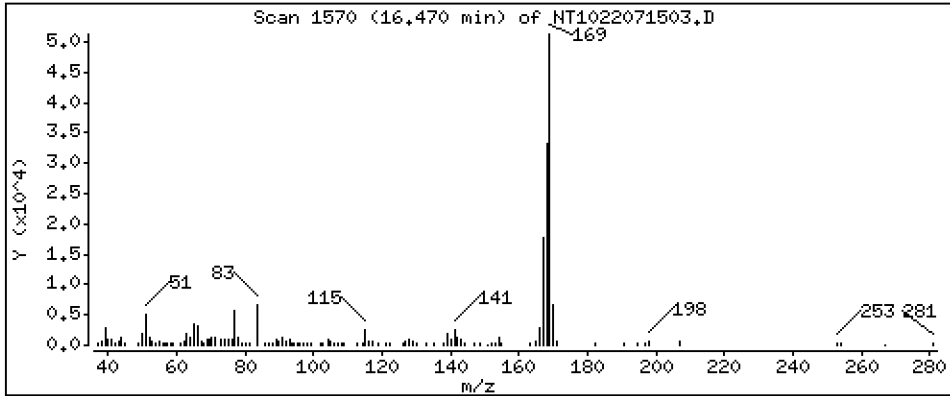
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,7292 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

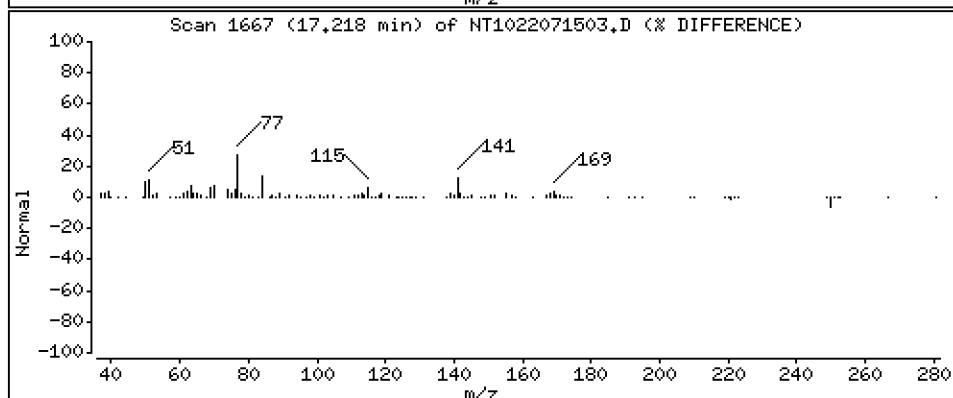
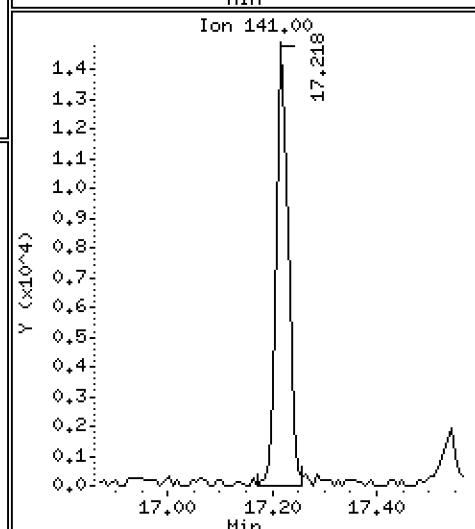
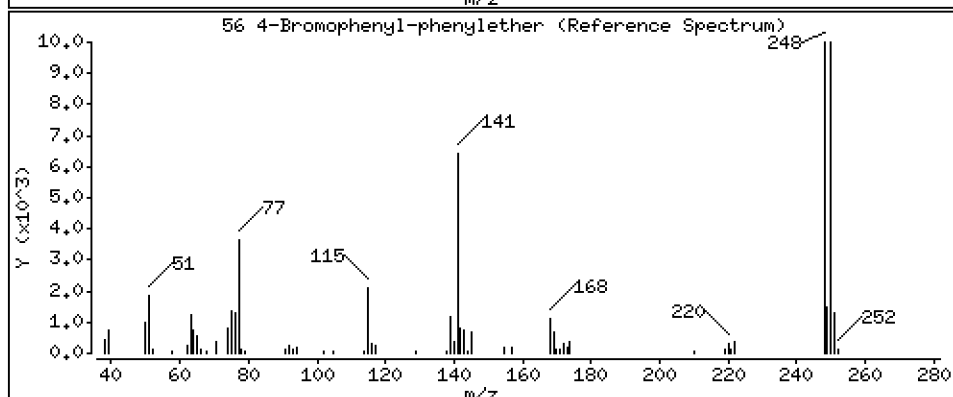
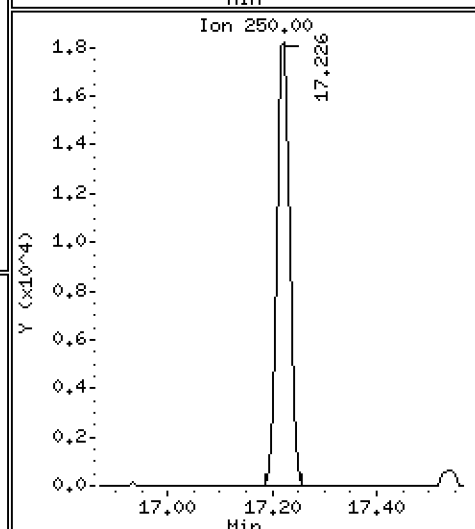
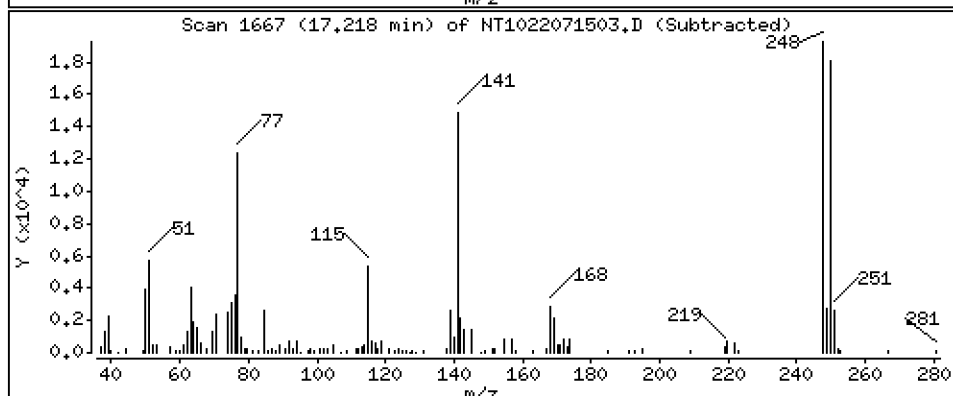
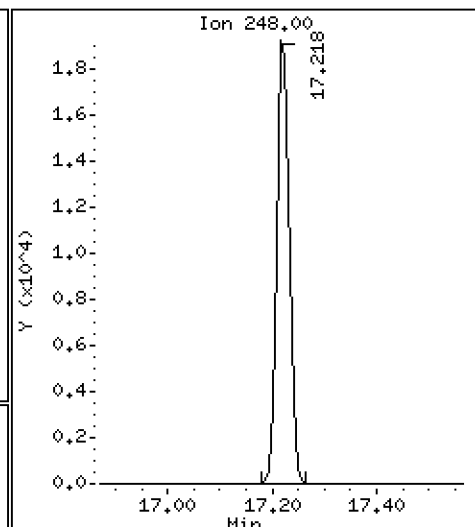
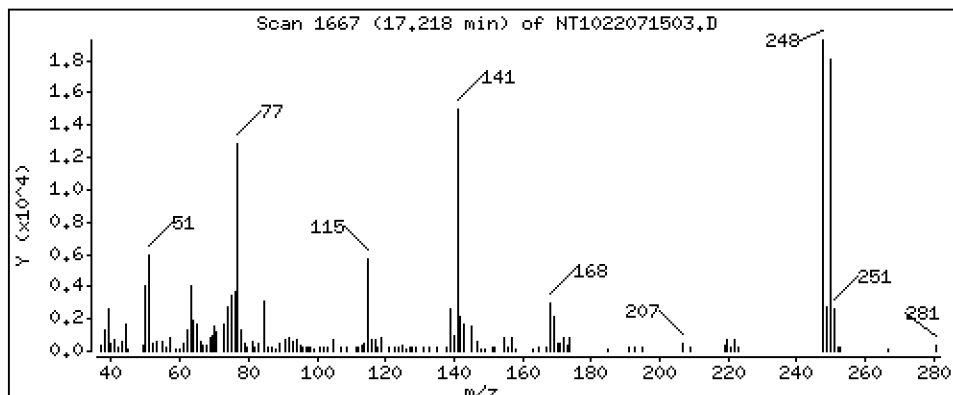
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,6215 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

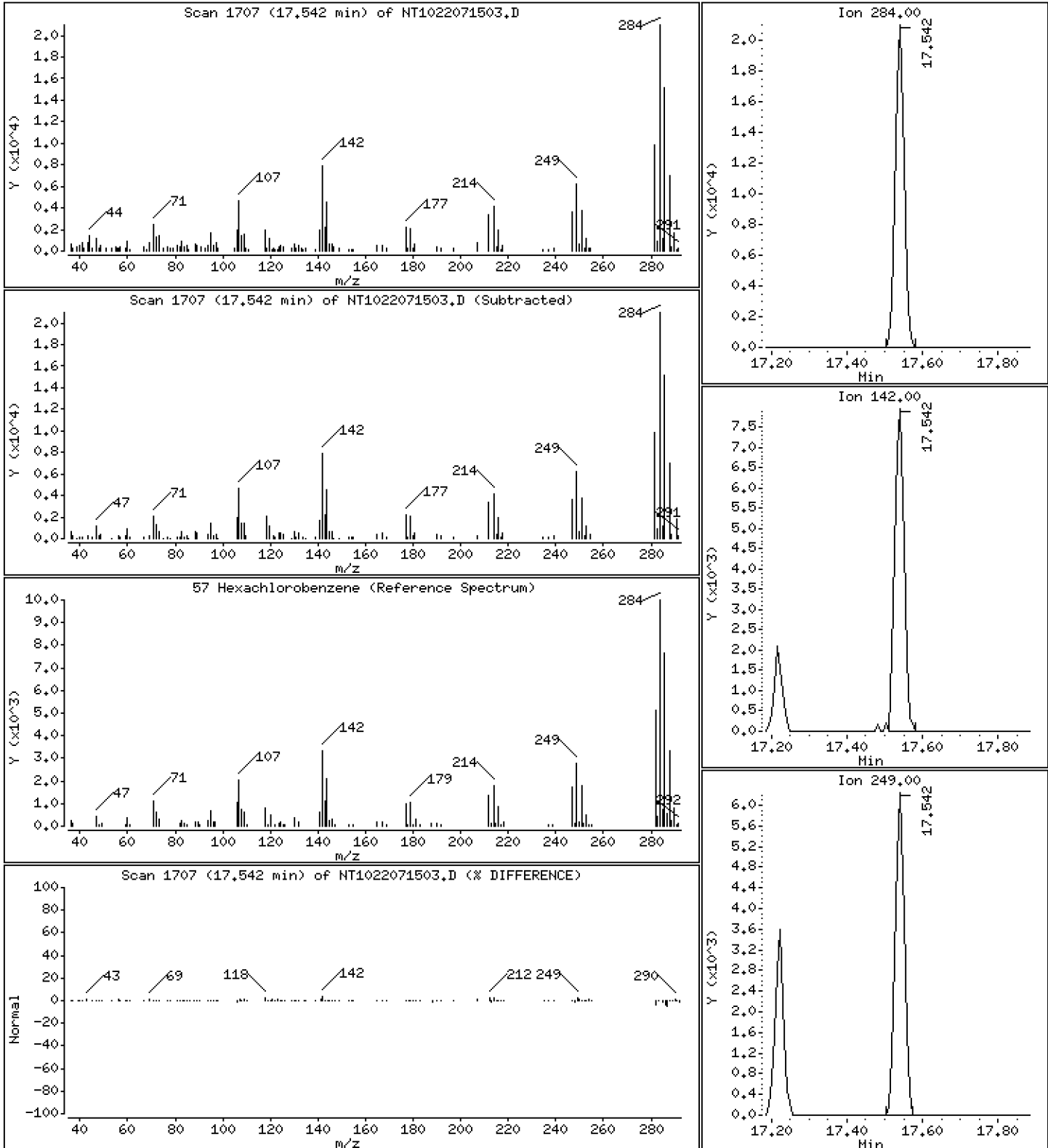
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,6874 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

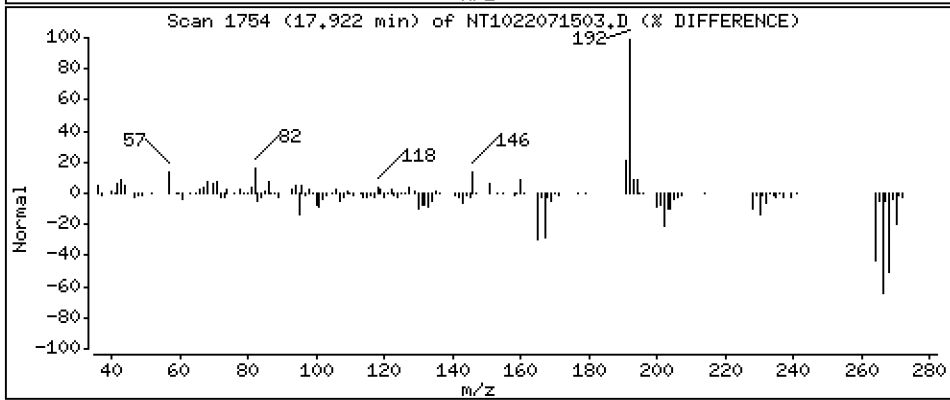
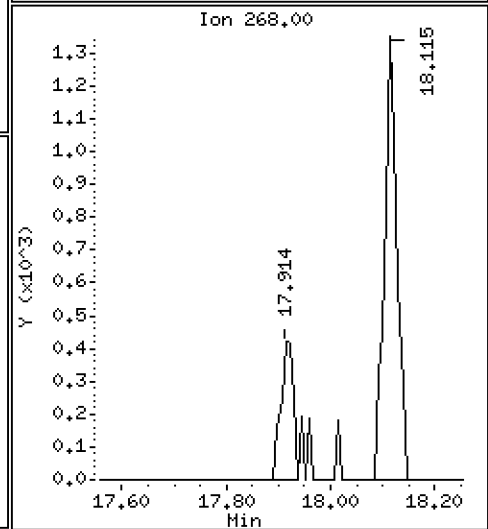
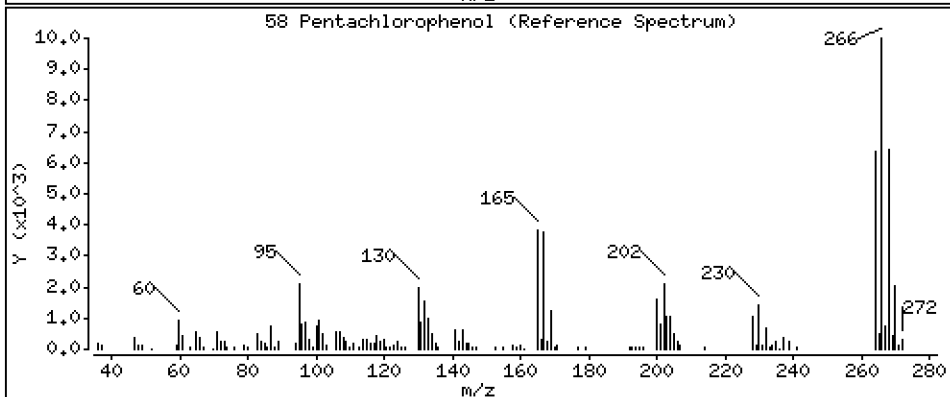
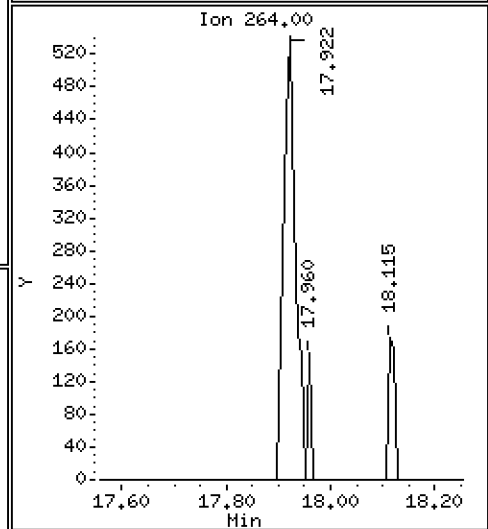
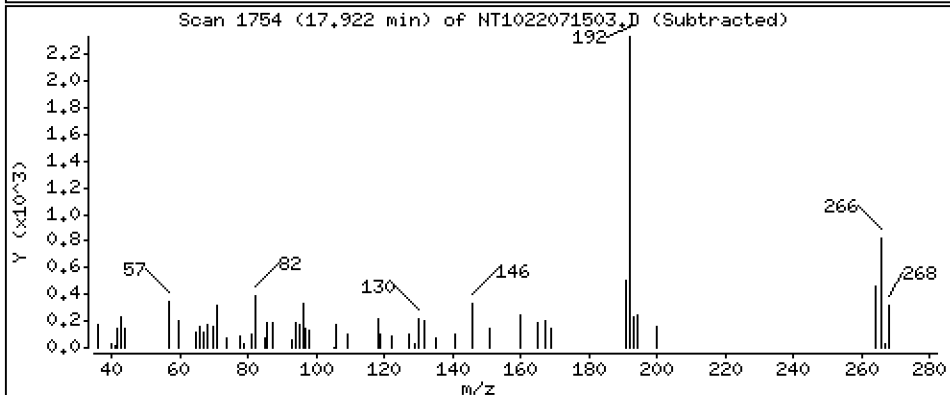
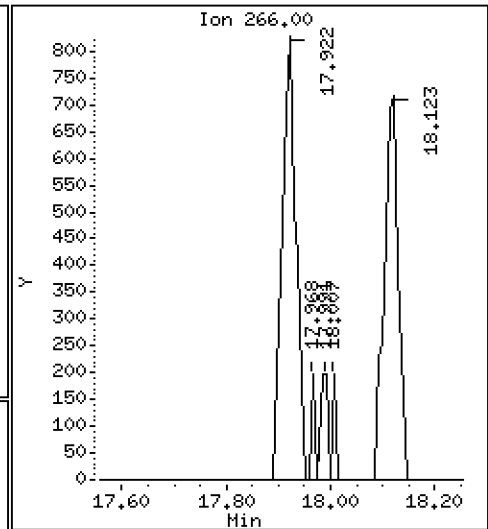
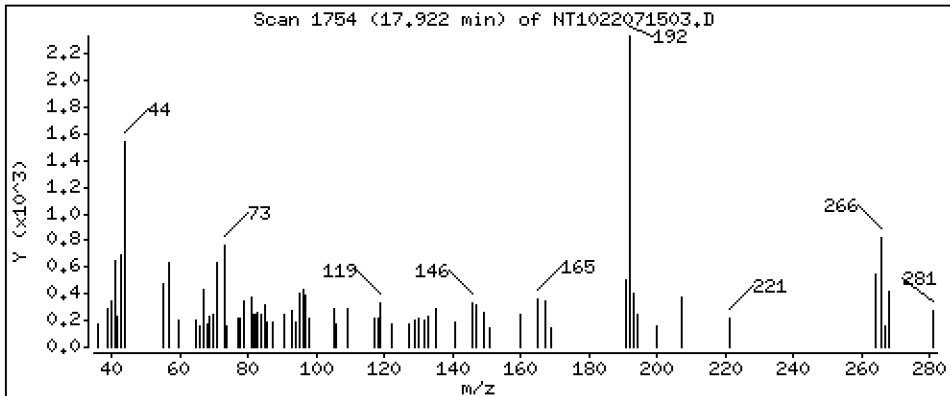
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,1515 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

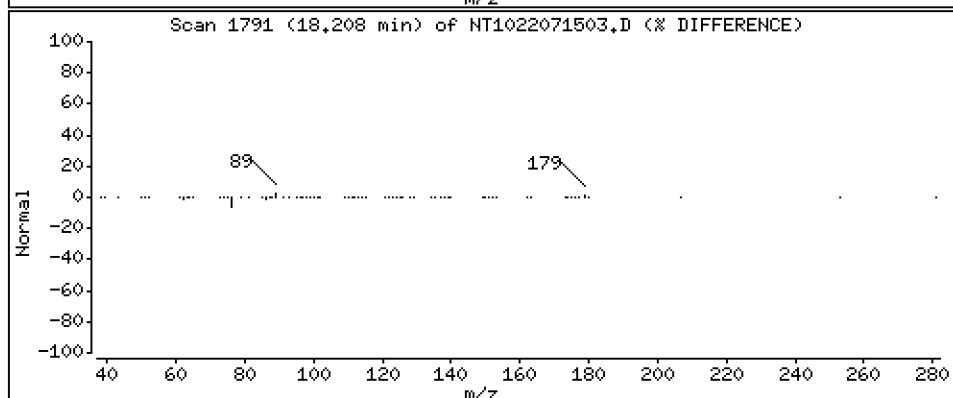
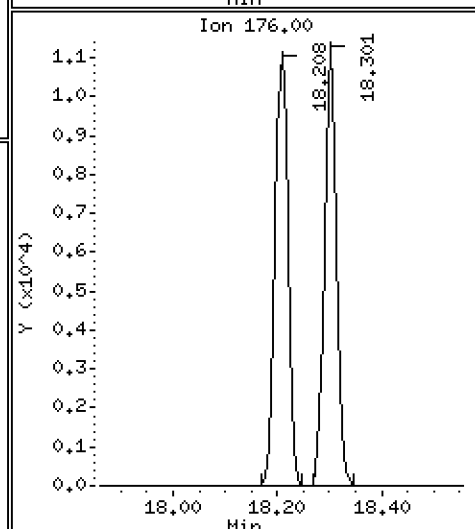
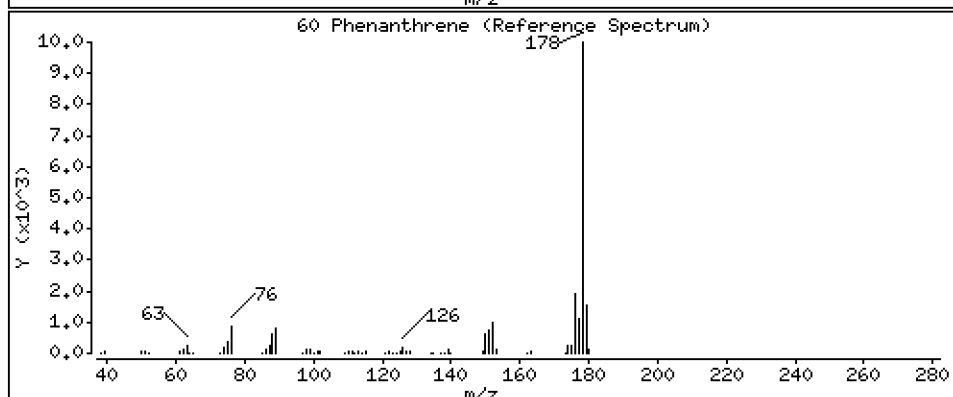
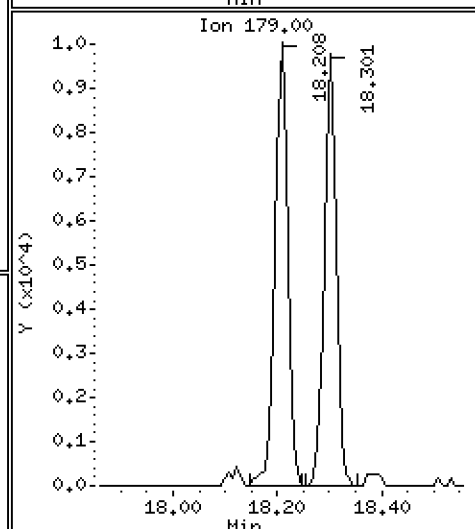
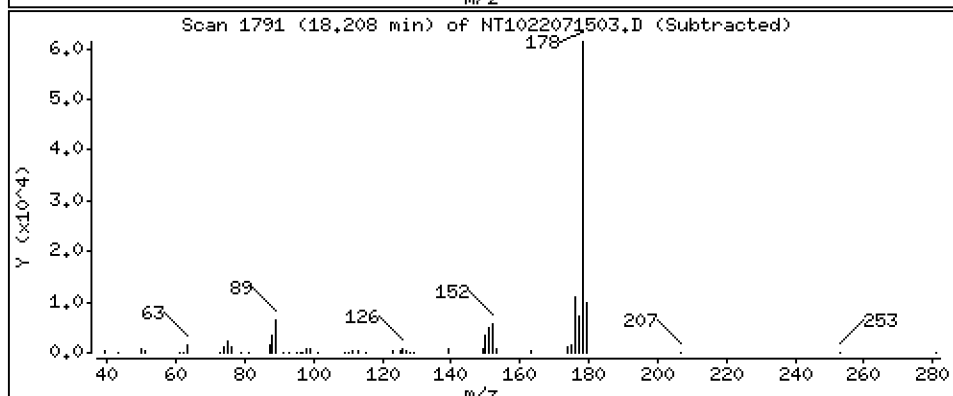
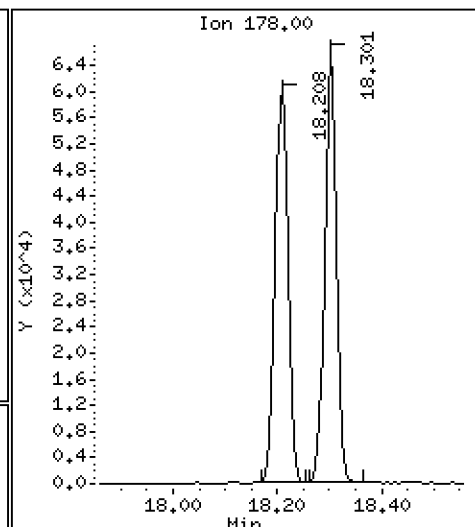
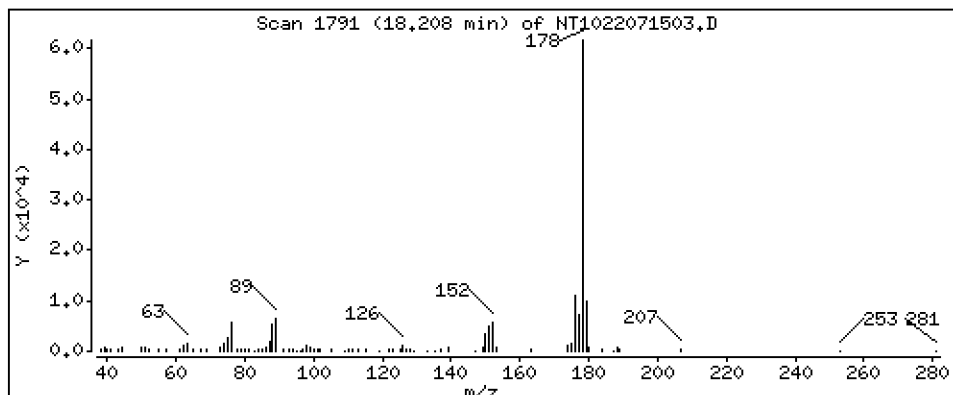
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5607 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

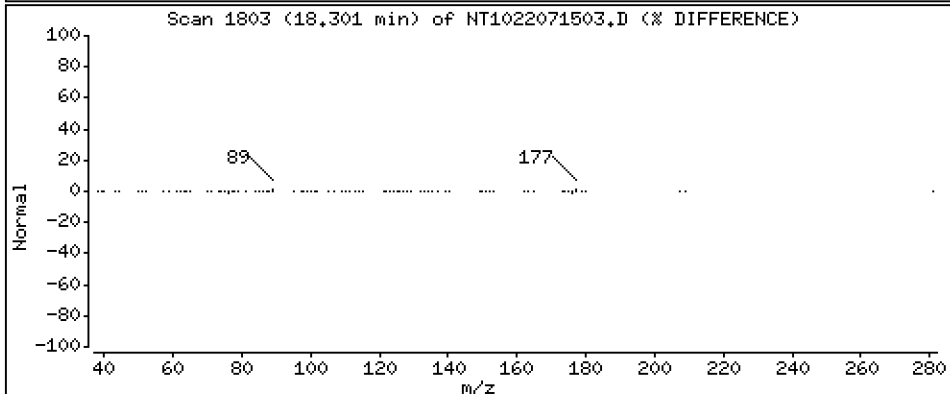
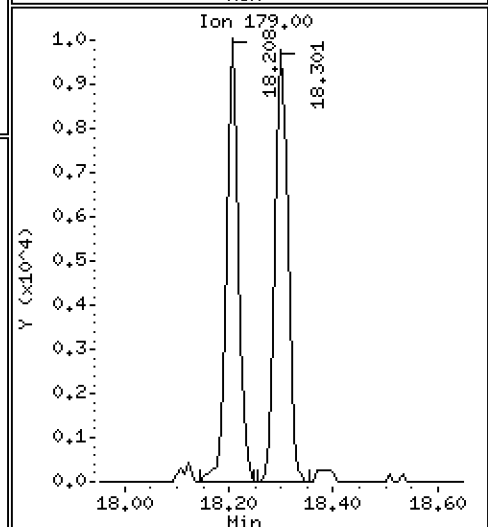
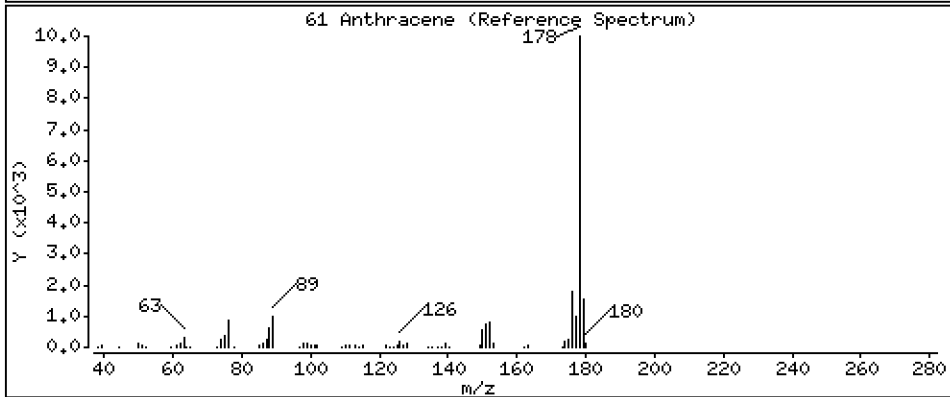
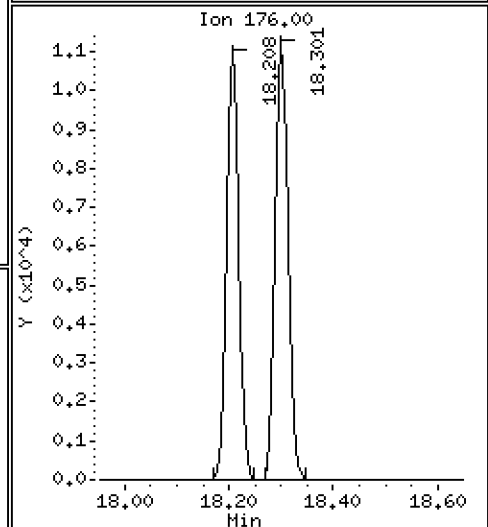
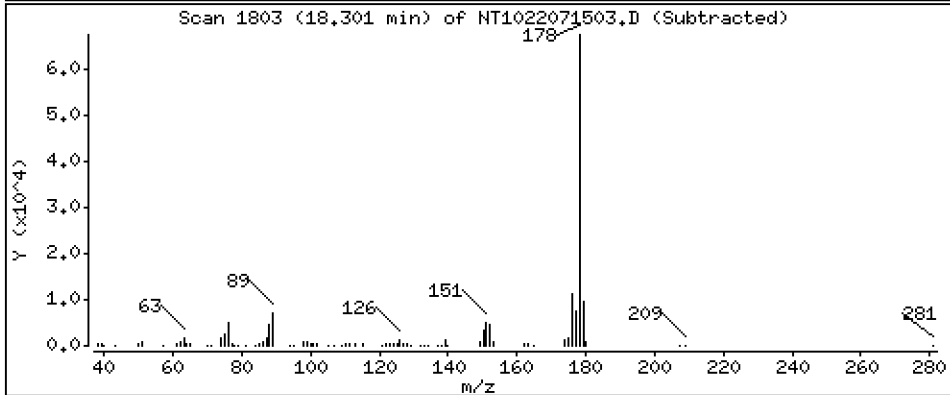
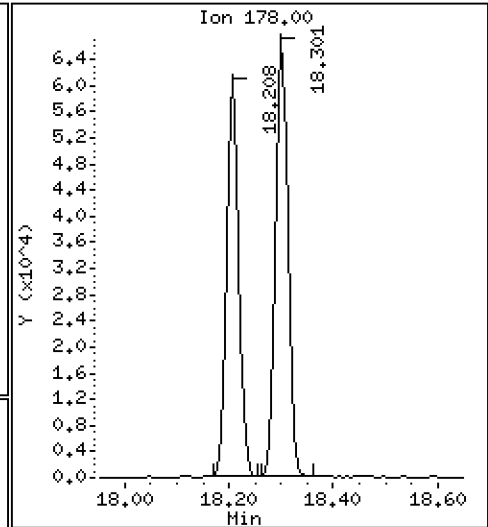
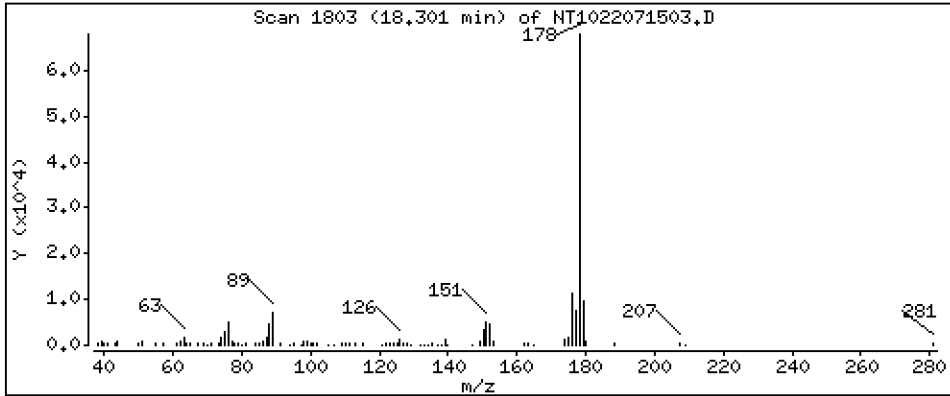
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5510 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

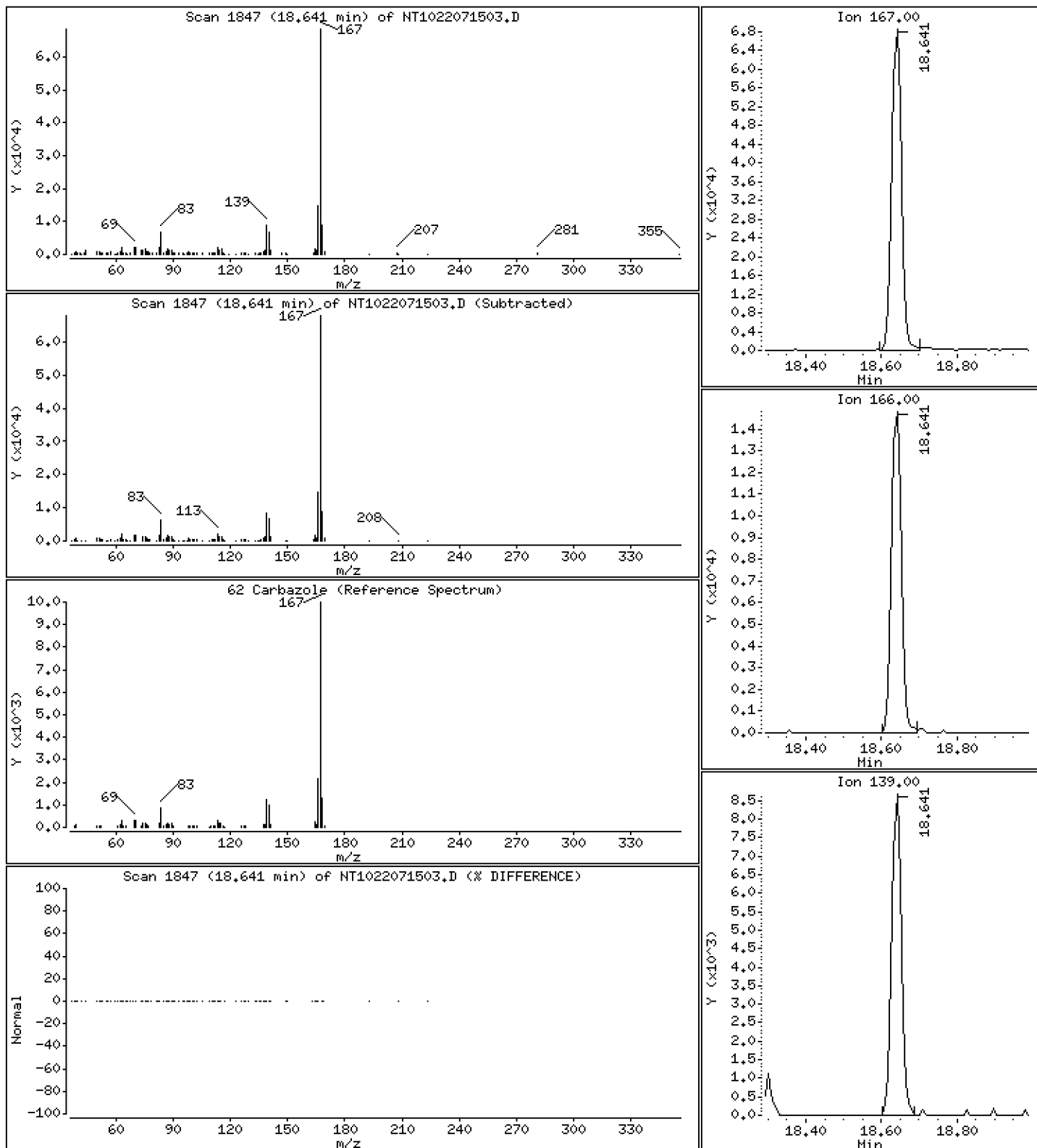
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,6696 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

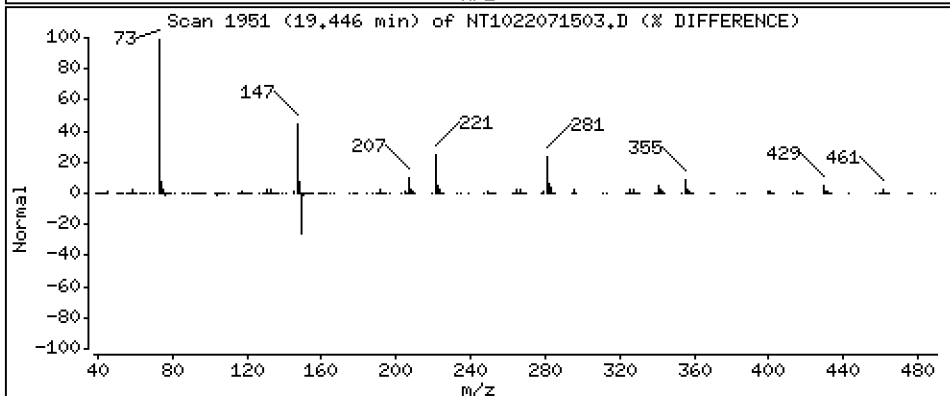
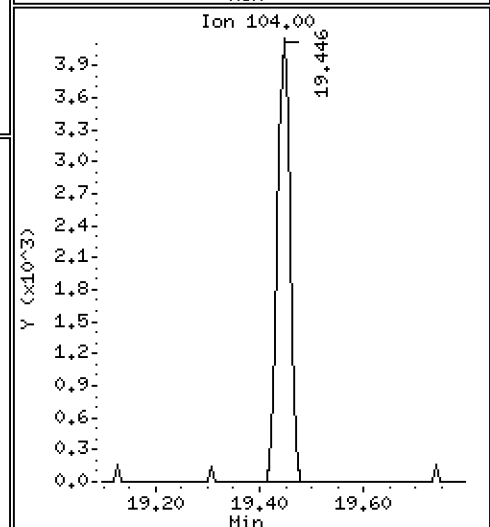
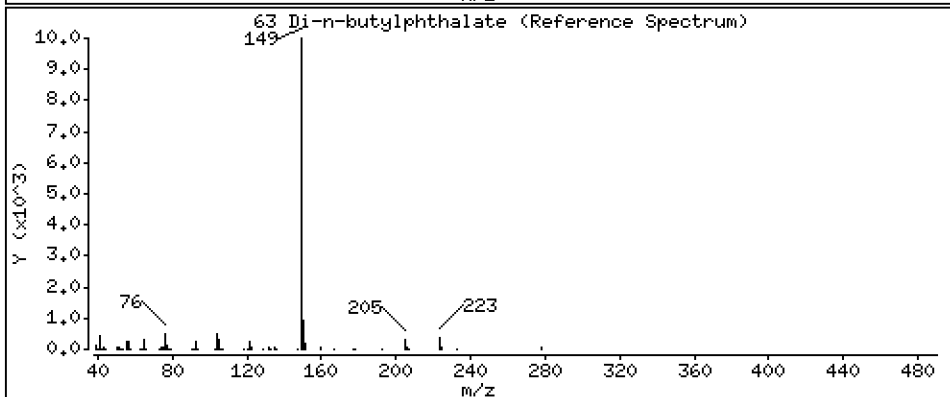
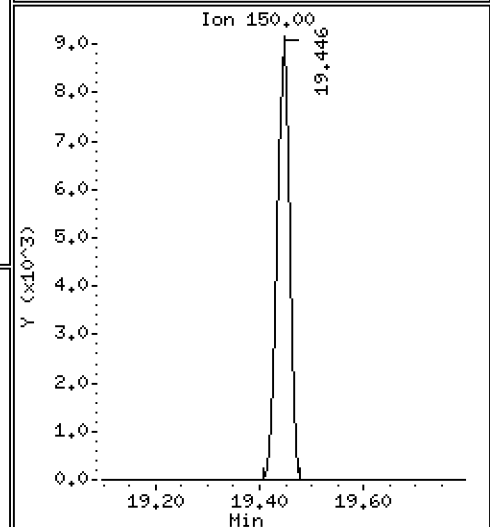
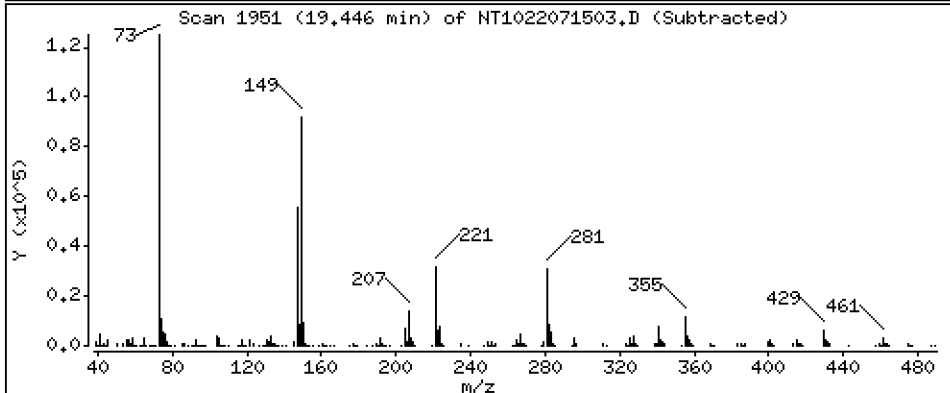
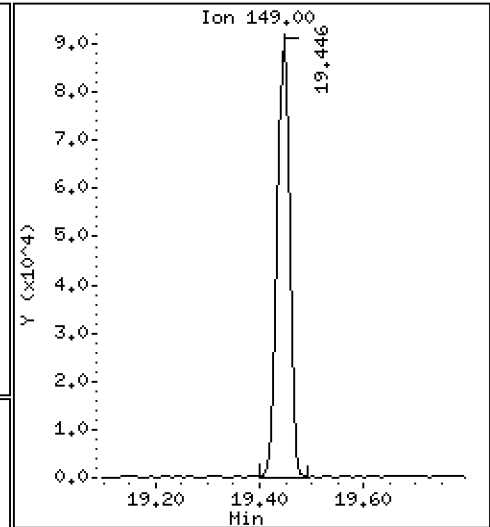
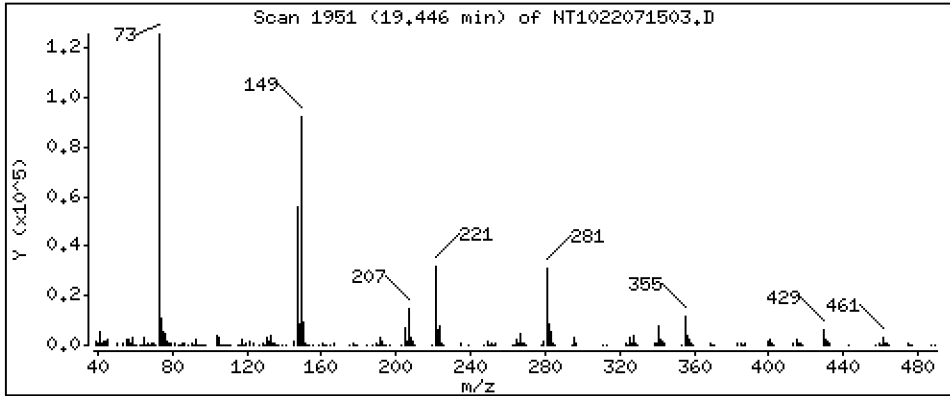
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,5489 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

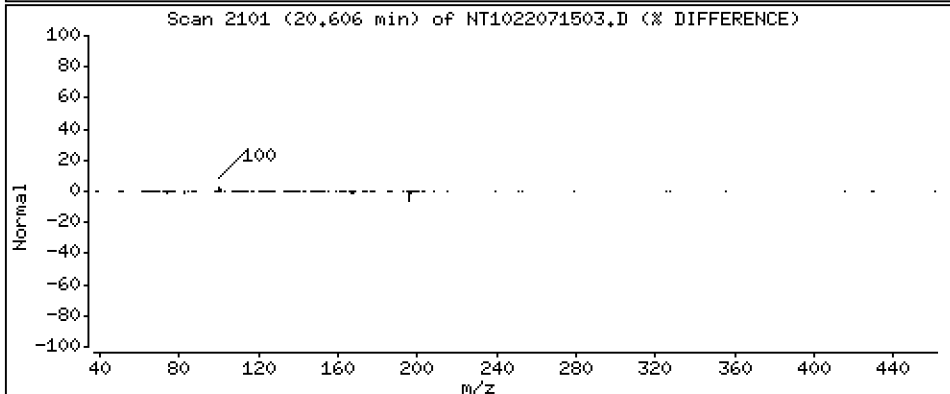
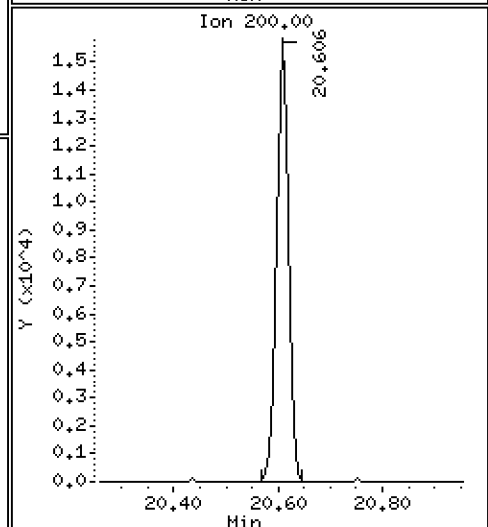
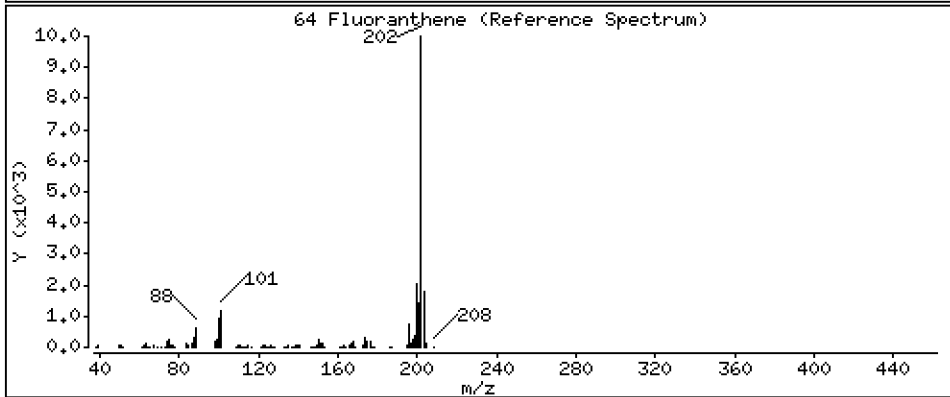
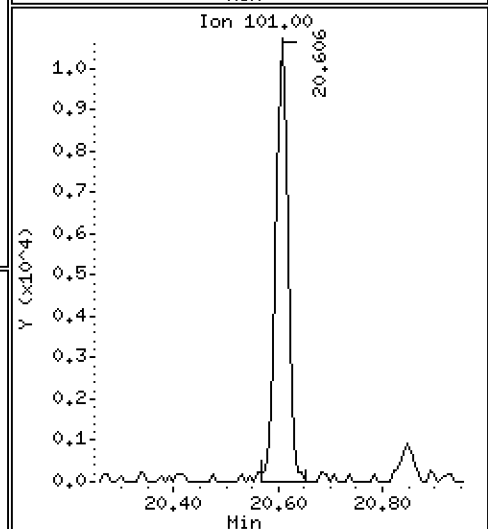
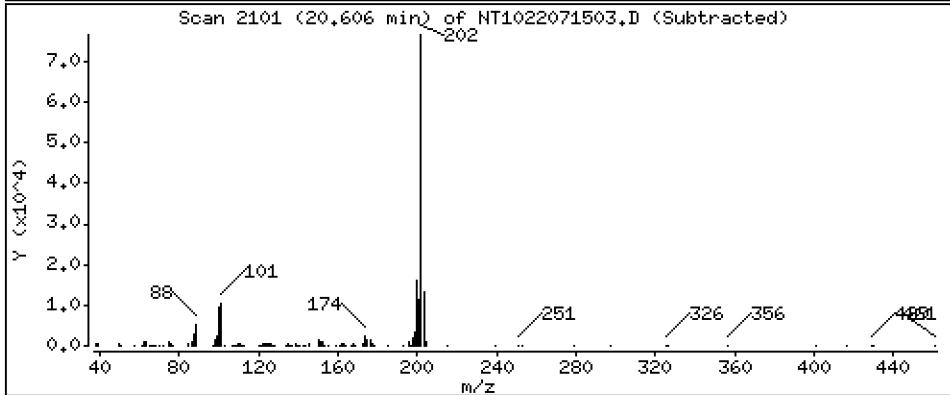
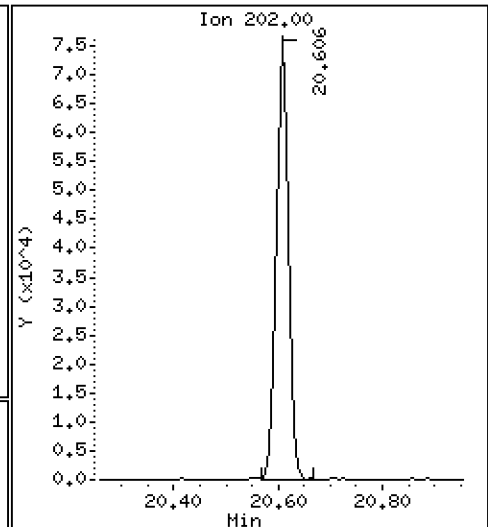
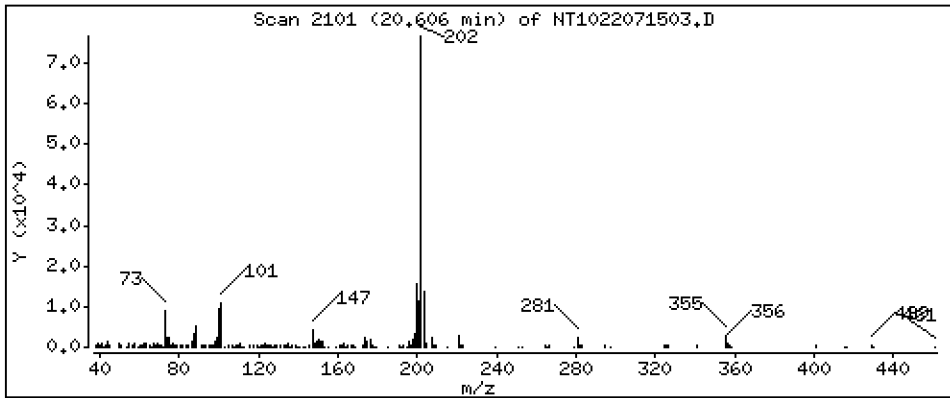
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,7206 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

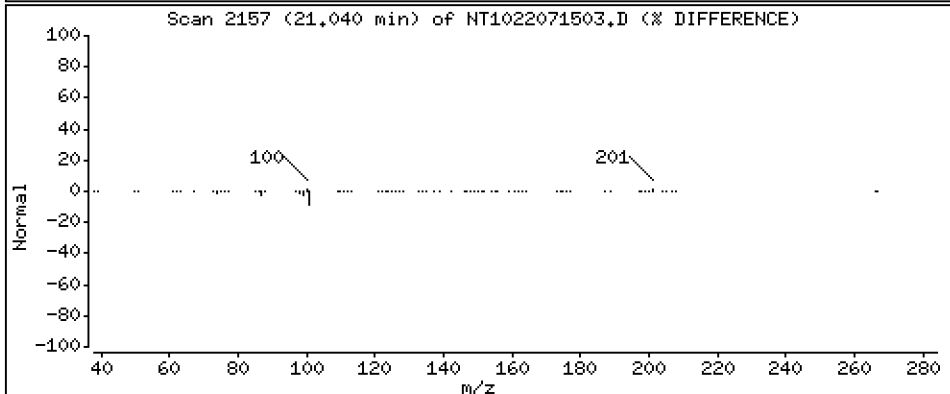
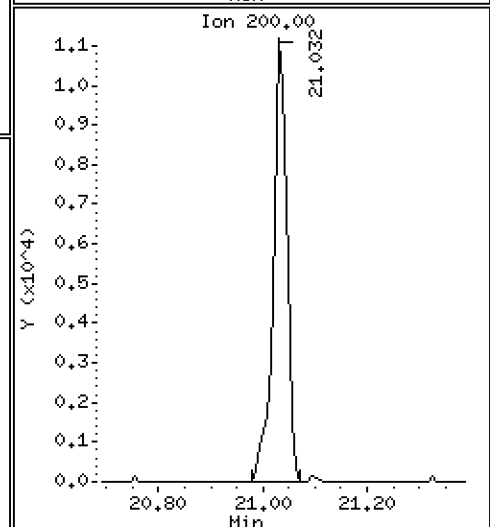
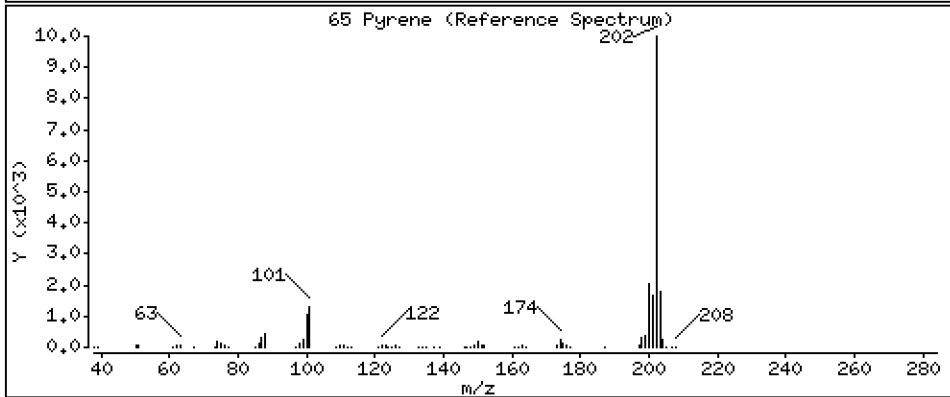
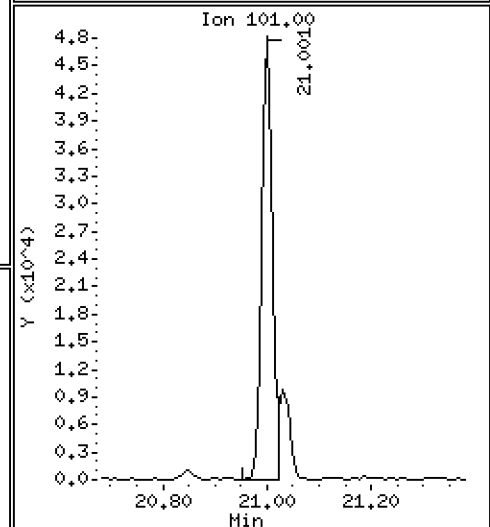
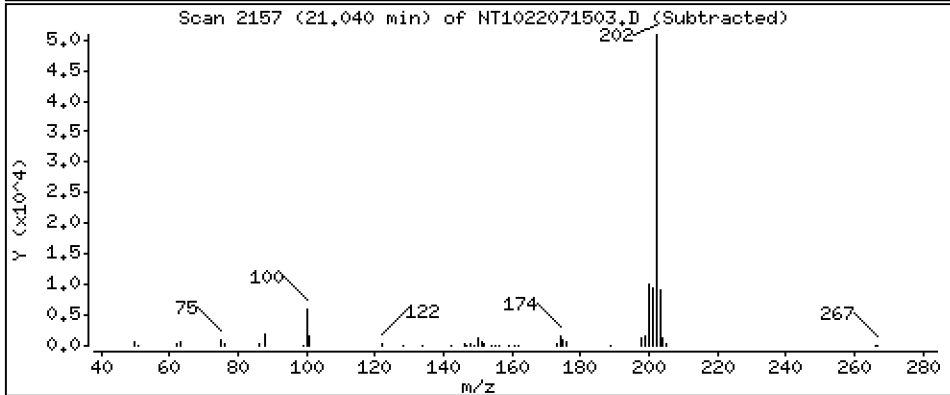
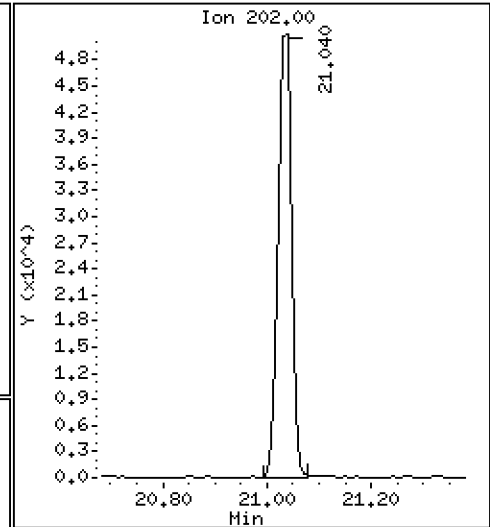
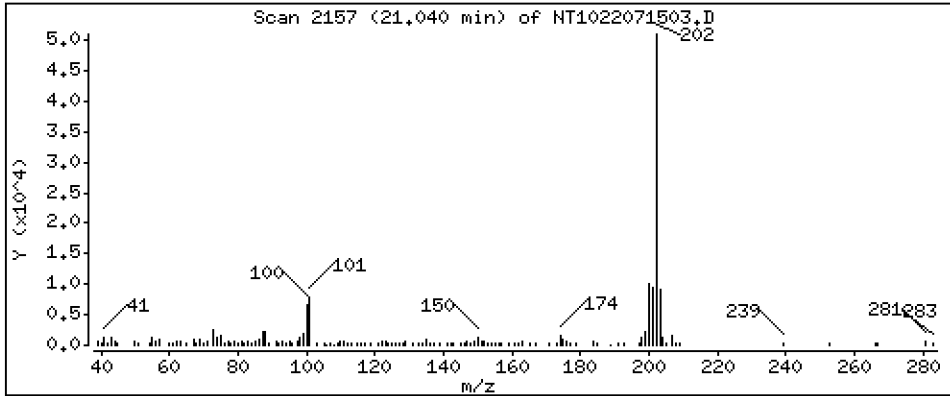
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,6174 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

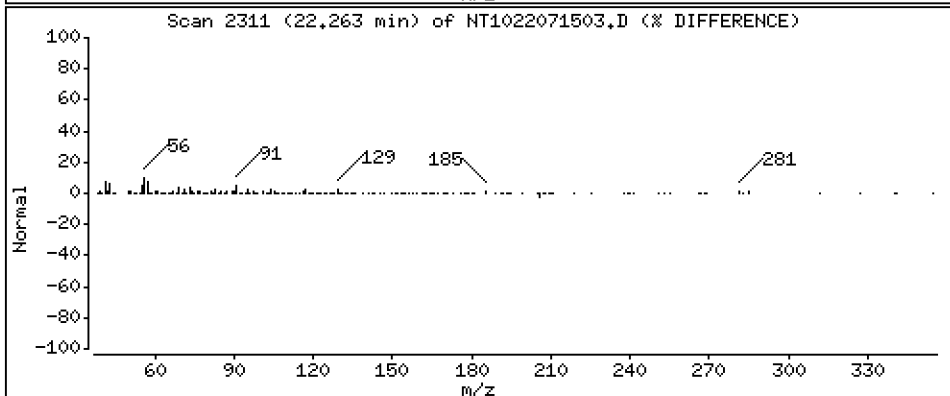
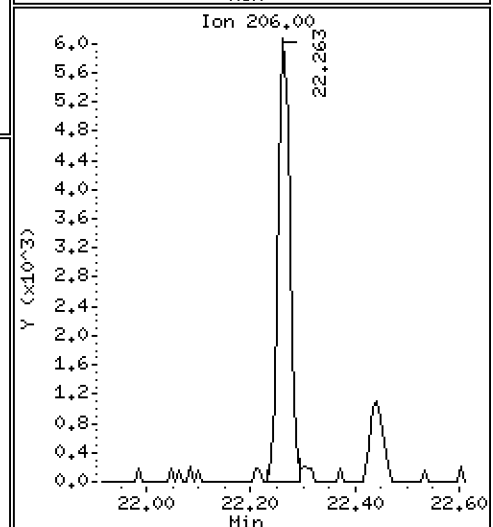
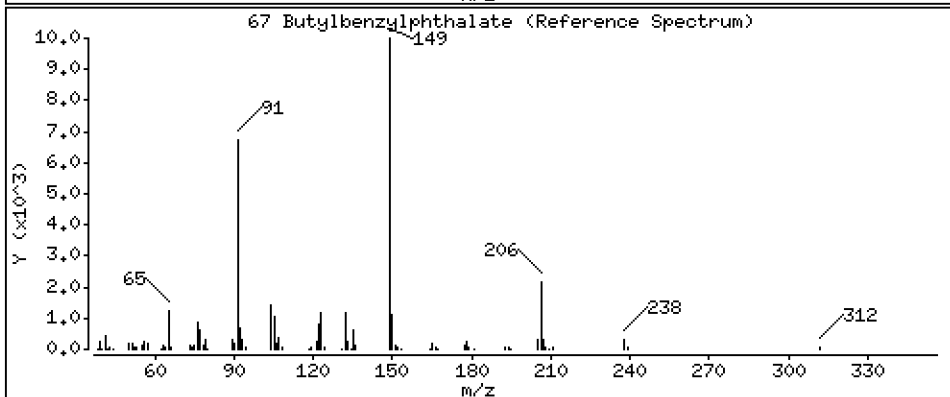
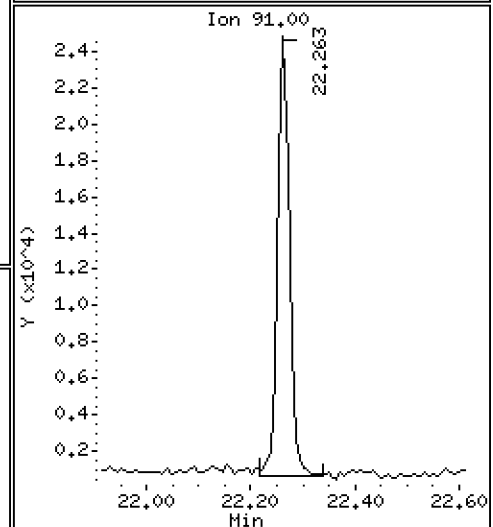
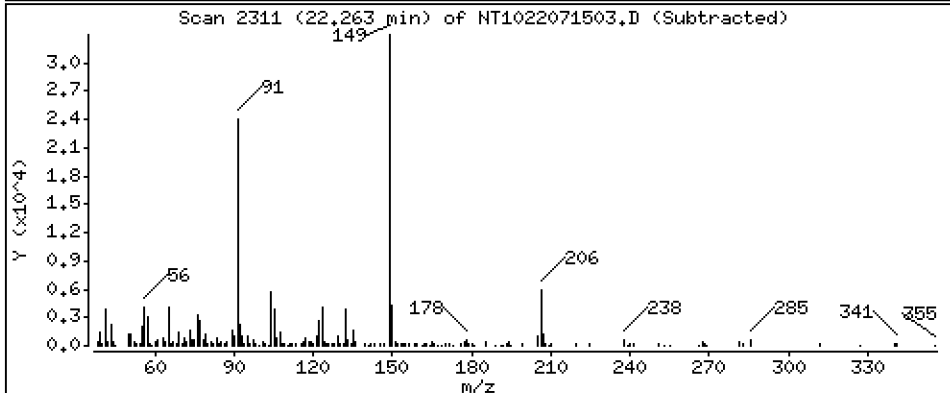
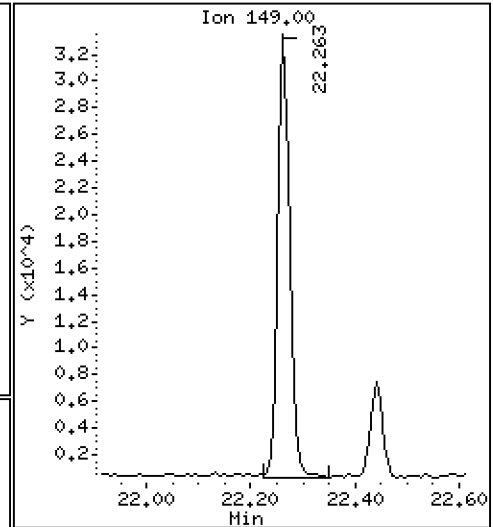
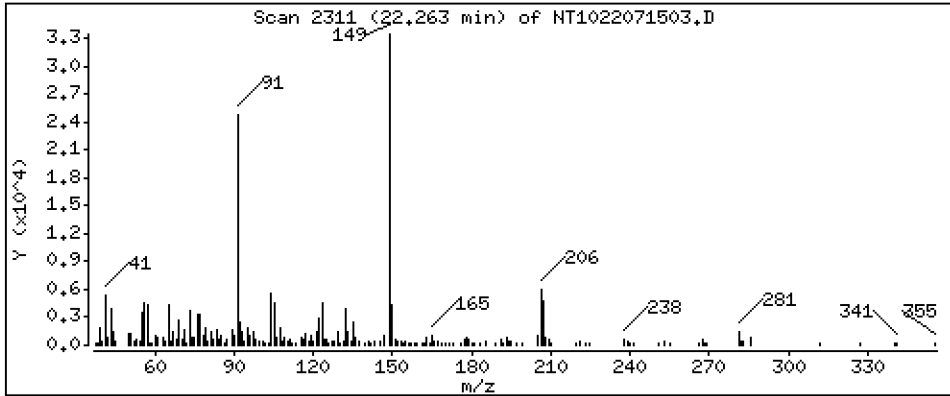
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 1.093 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

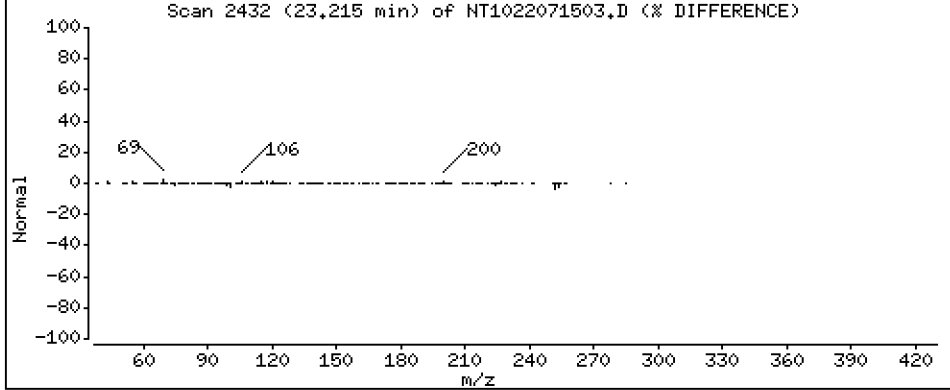
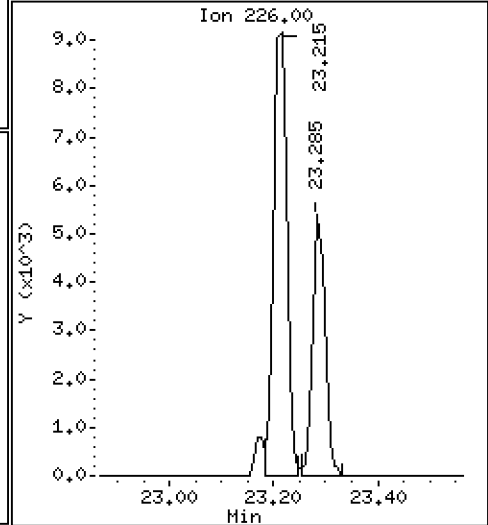
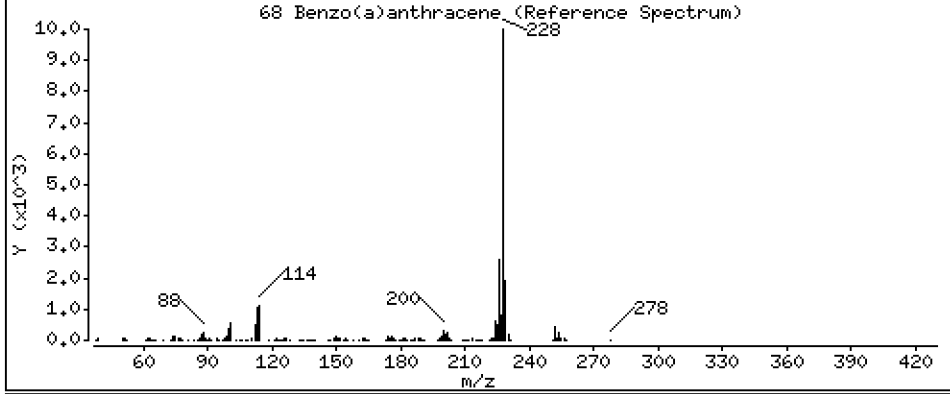
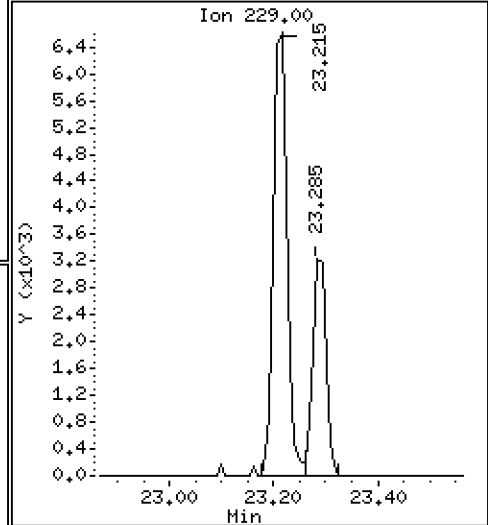
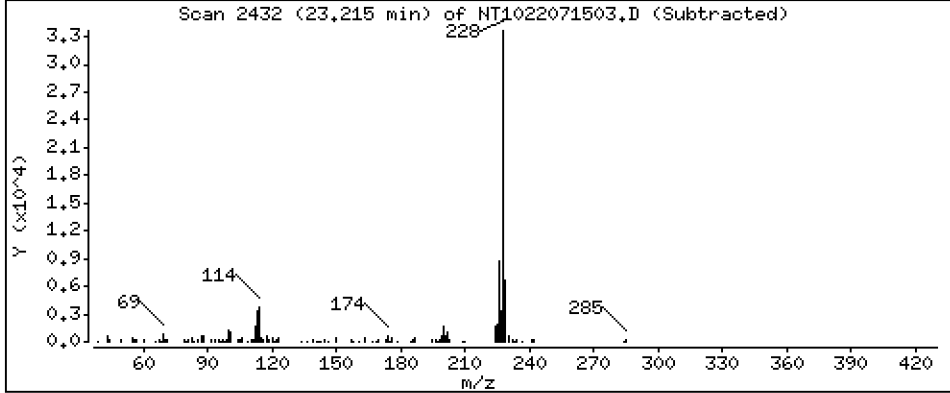
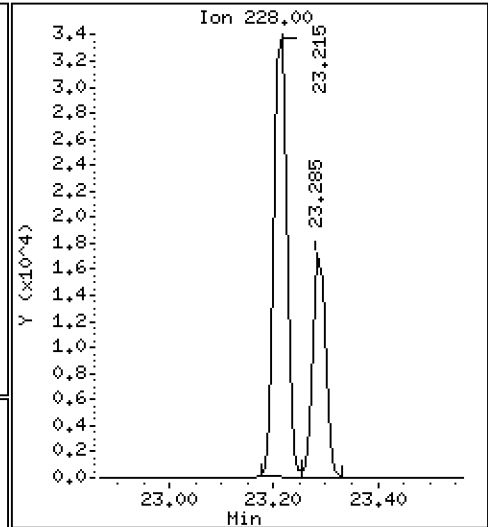
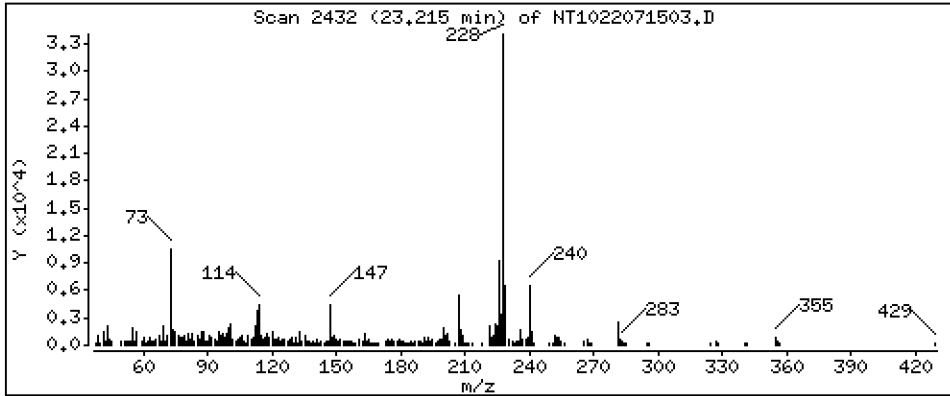
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 0.5799 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

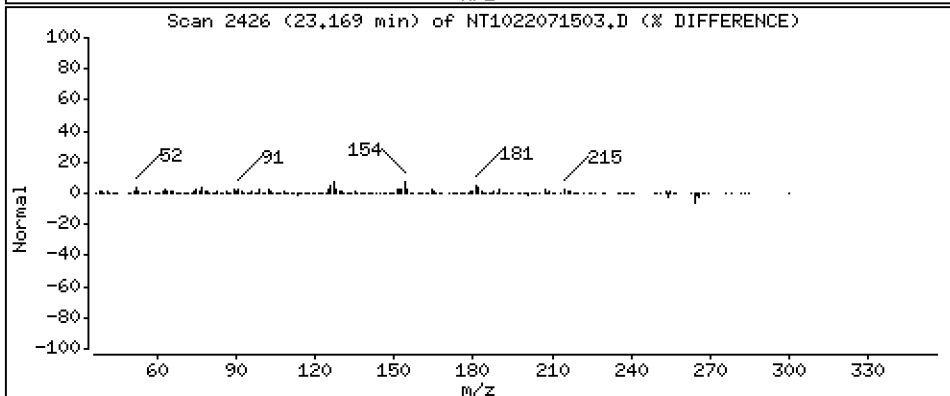
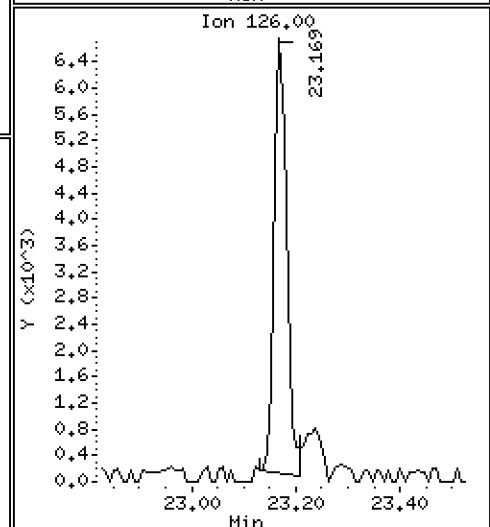
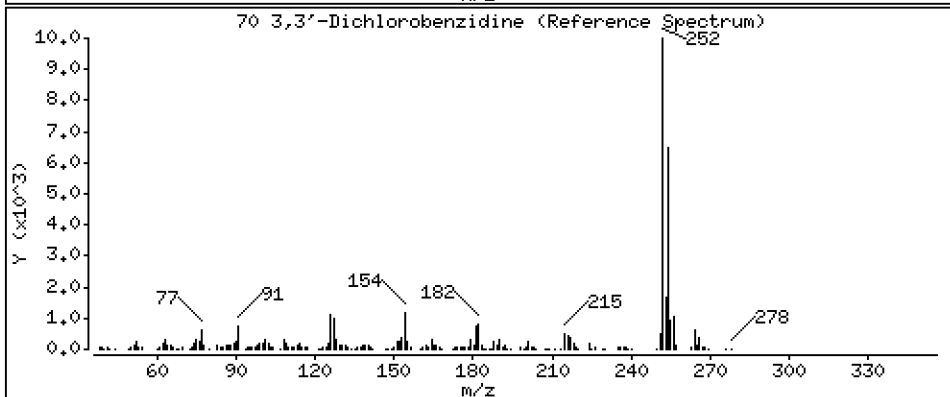
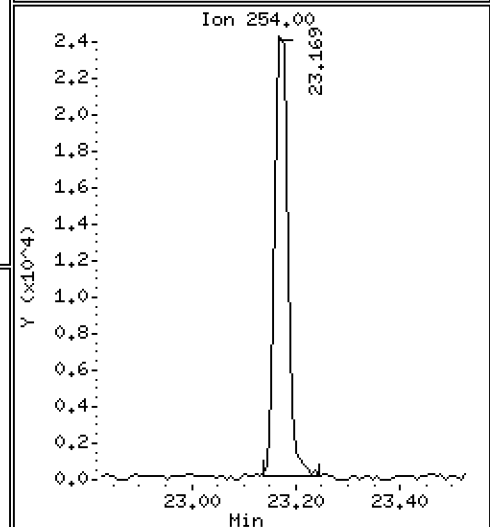
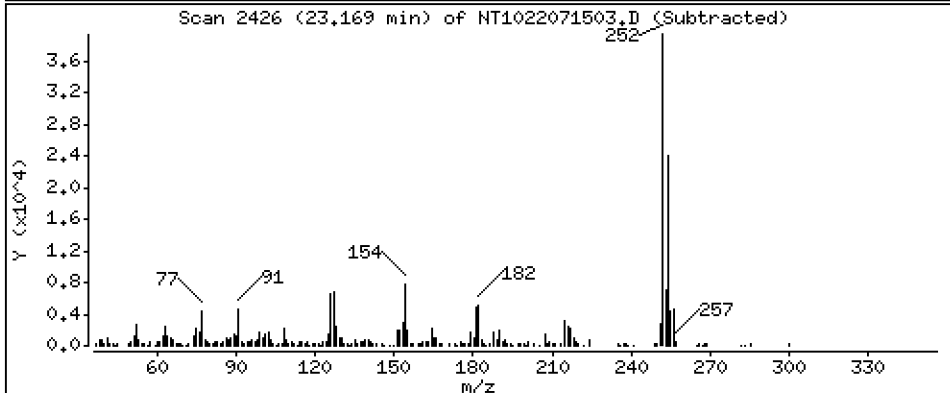
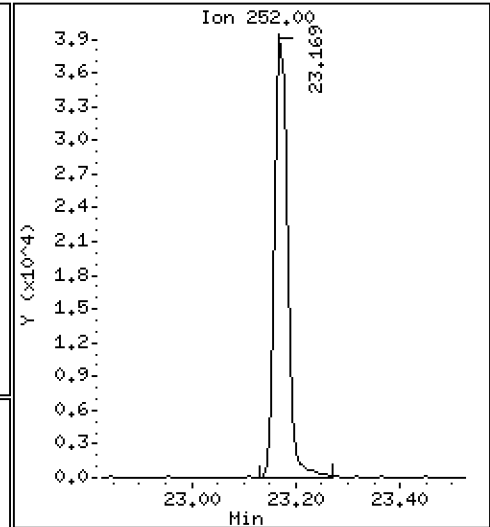
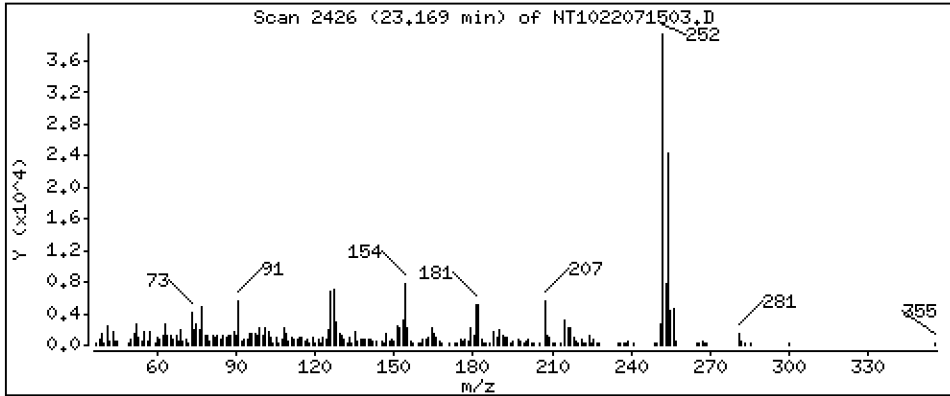
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 2,068 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

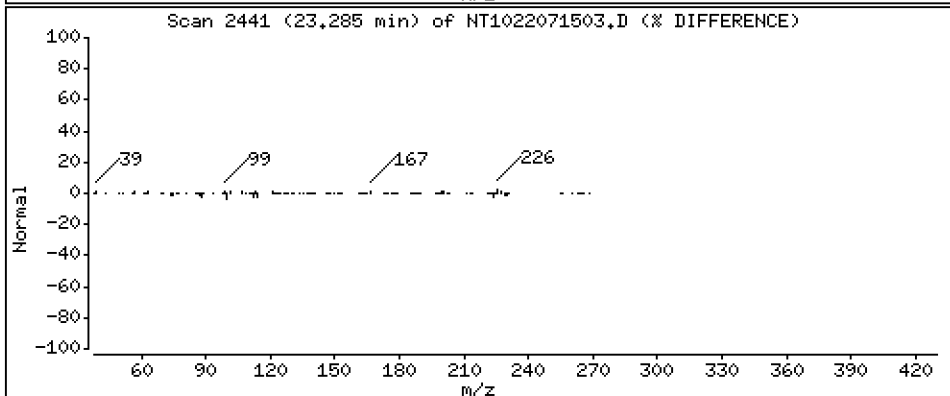
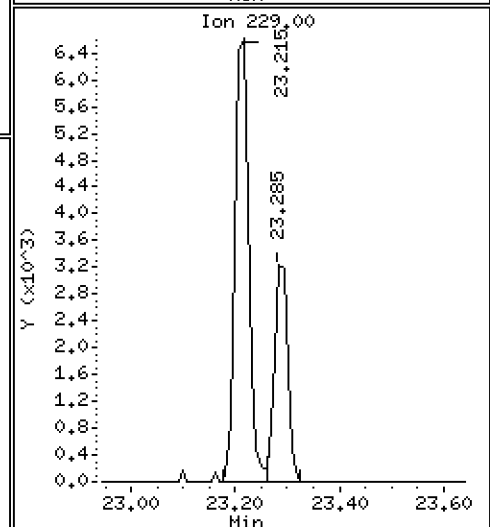
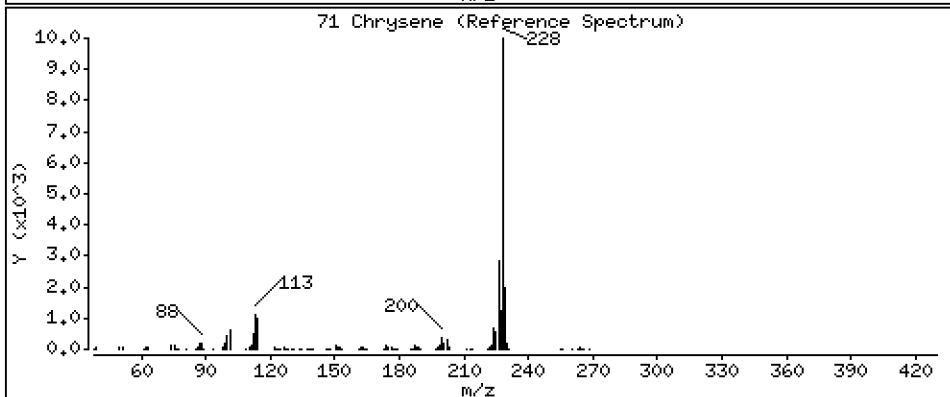
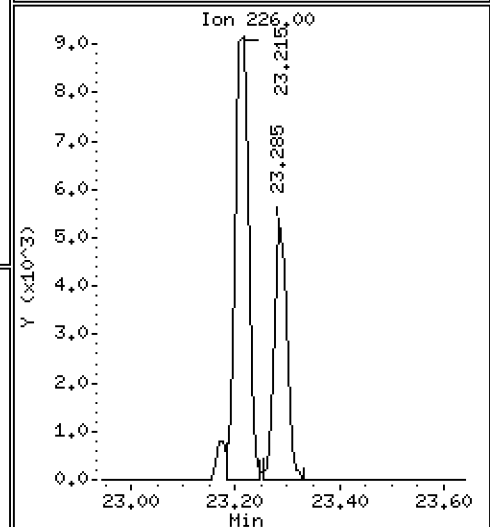
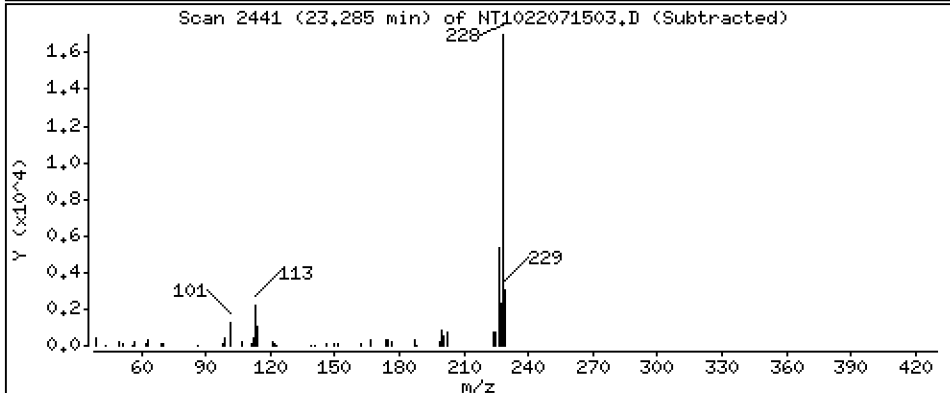
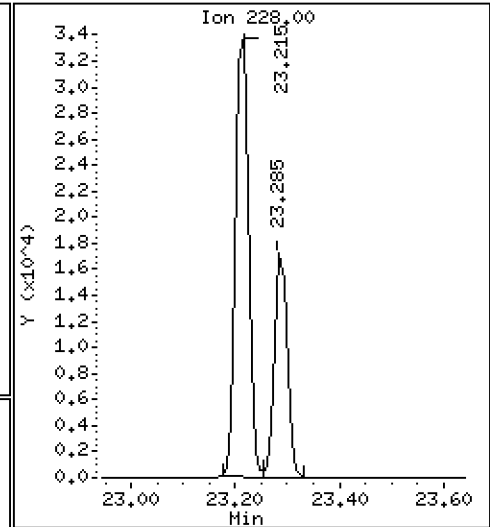
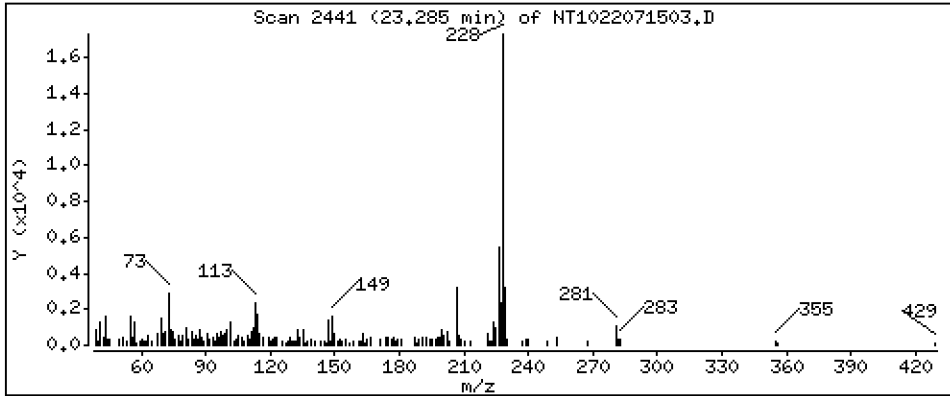
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,4385 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

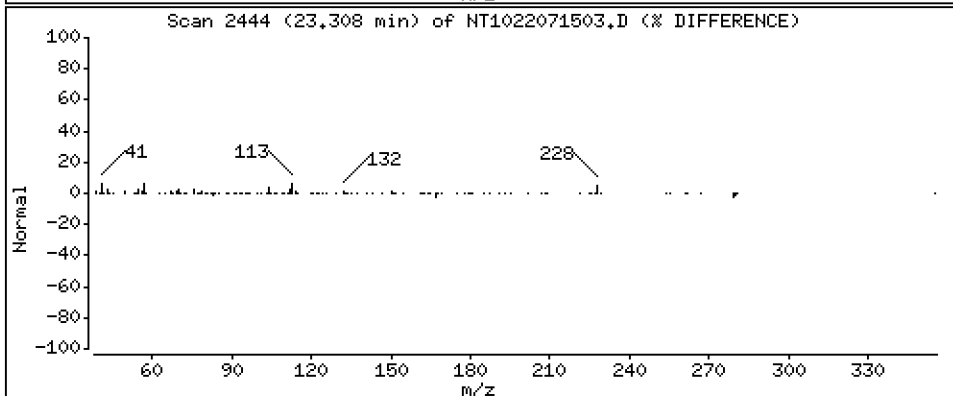
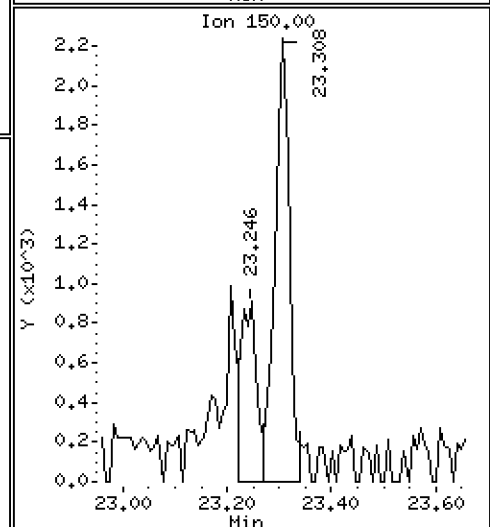
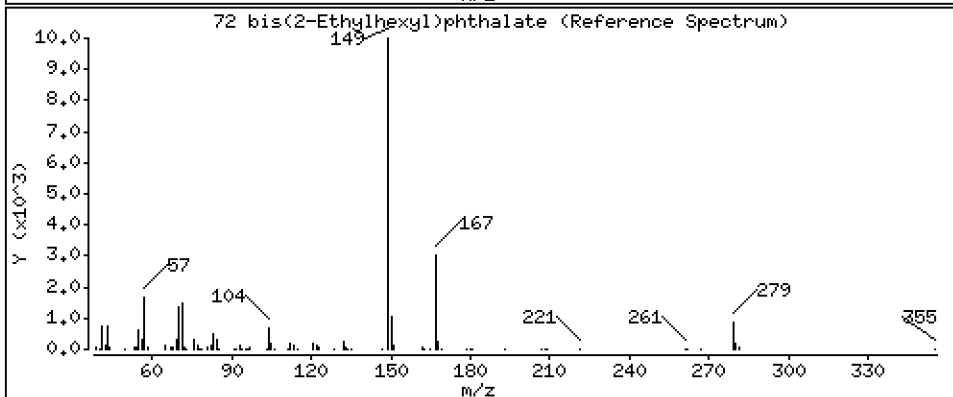
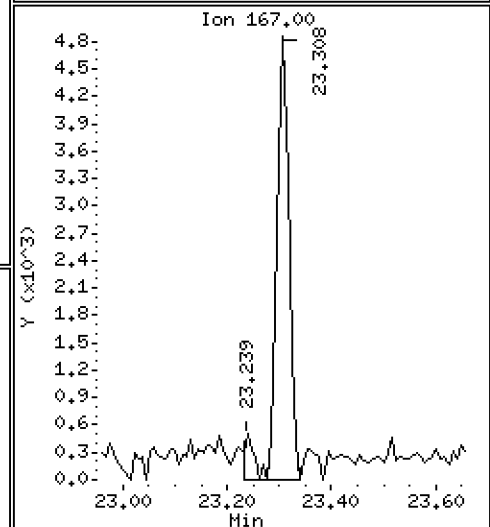
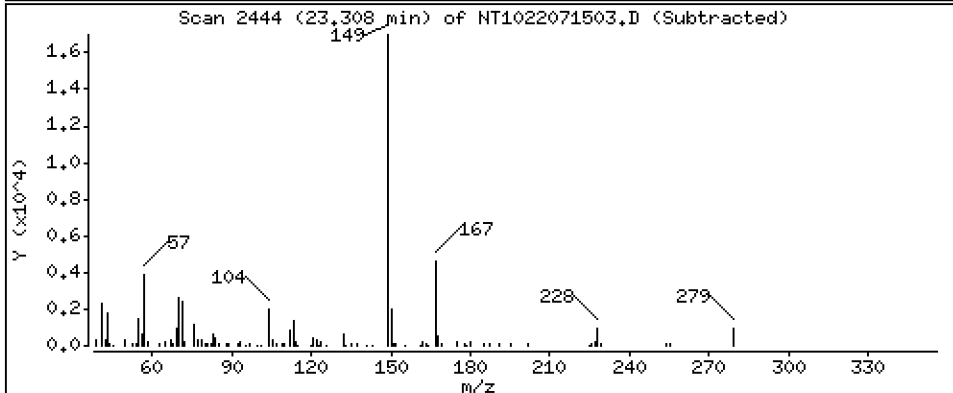
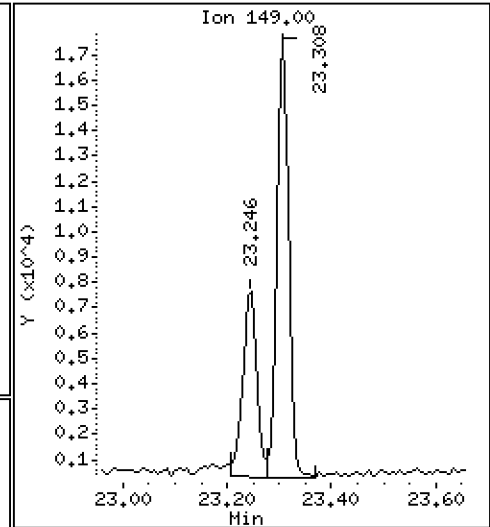
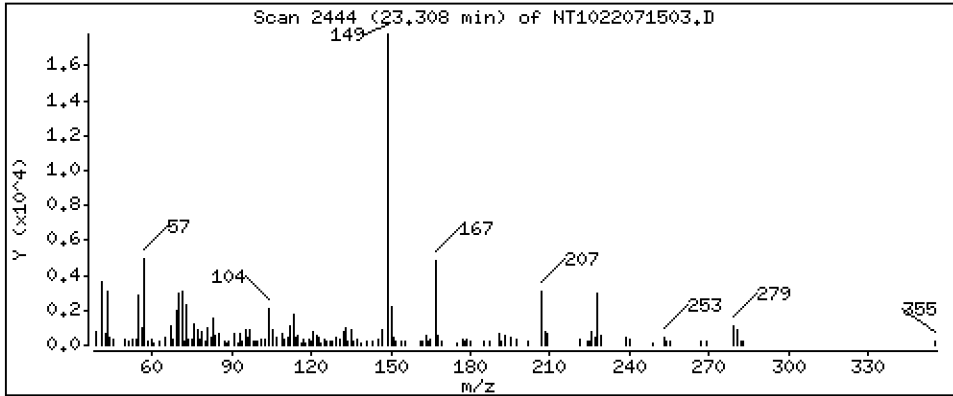
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,8774 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

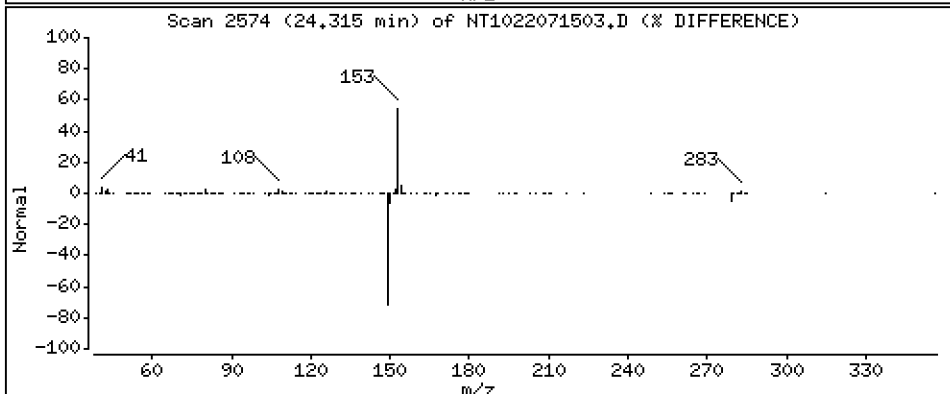
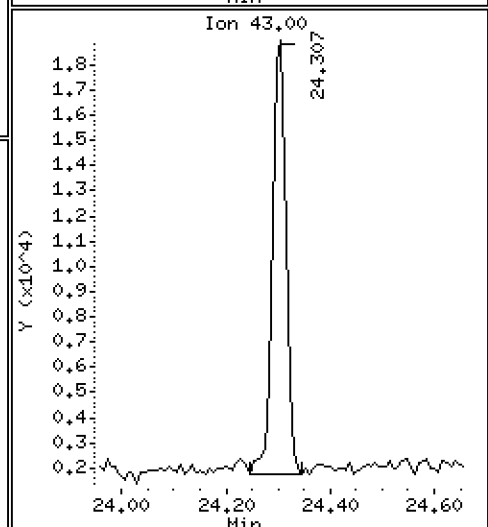
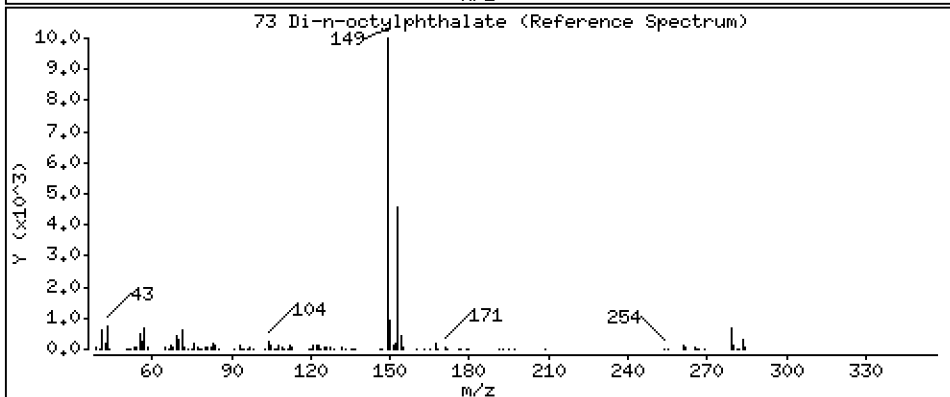
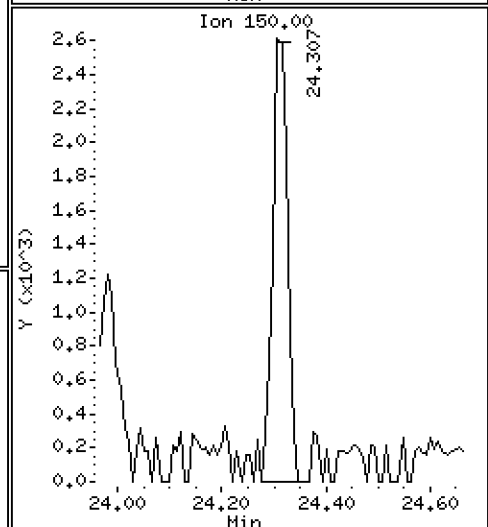
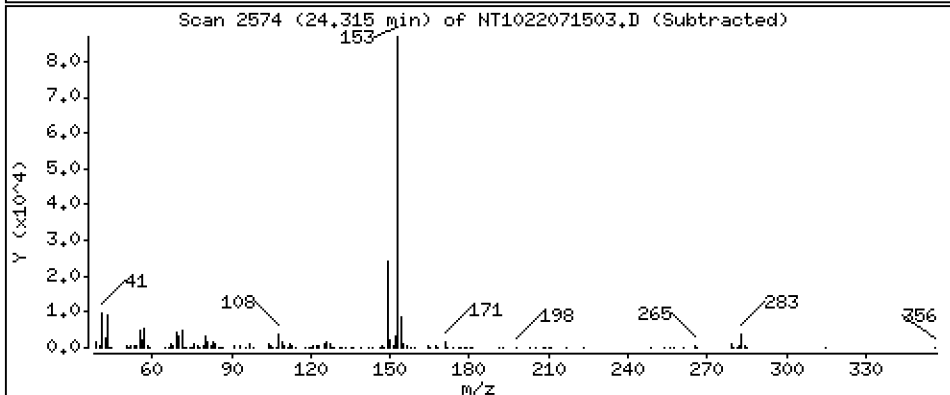
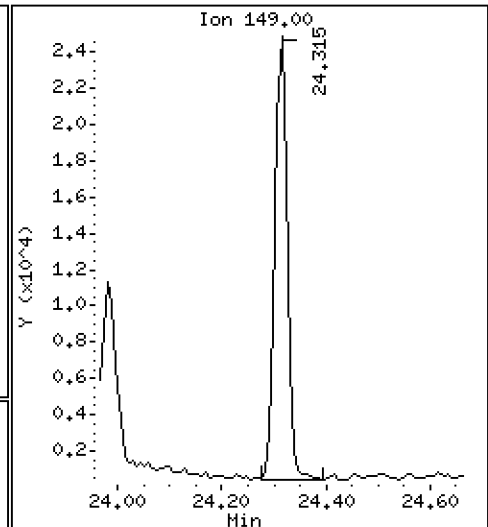
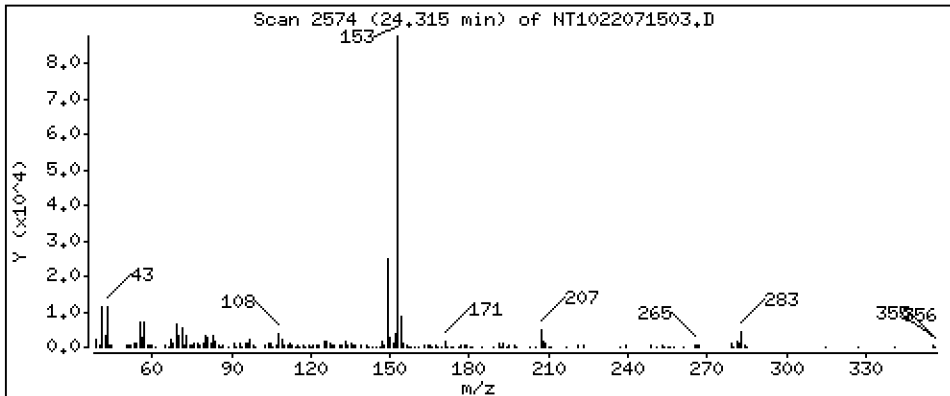
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,6422 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

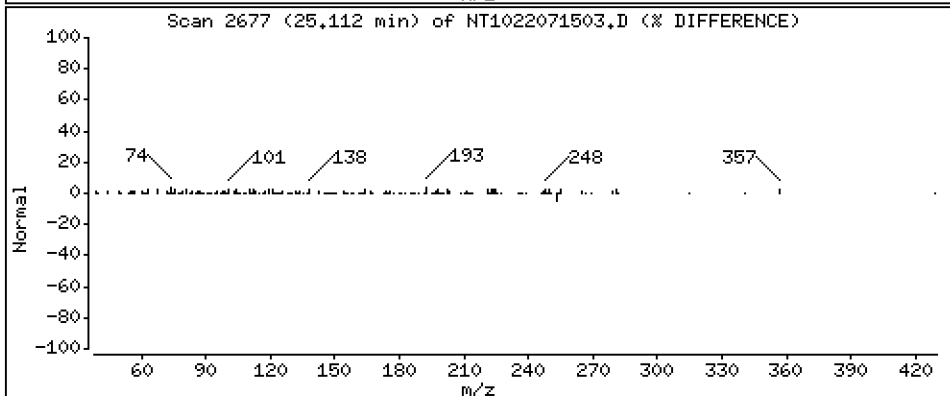
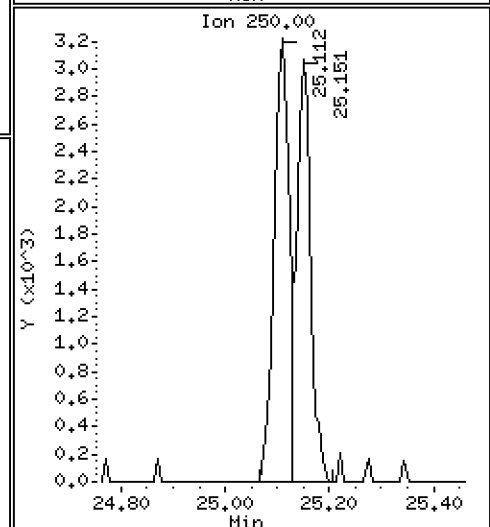
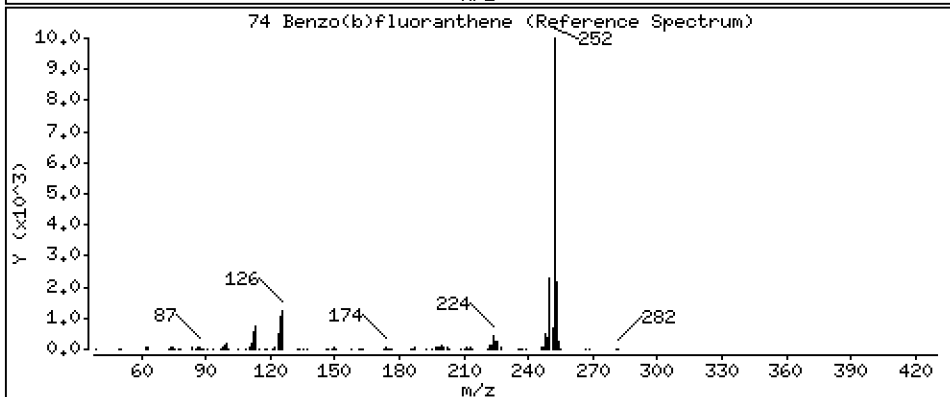
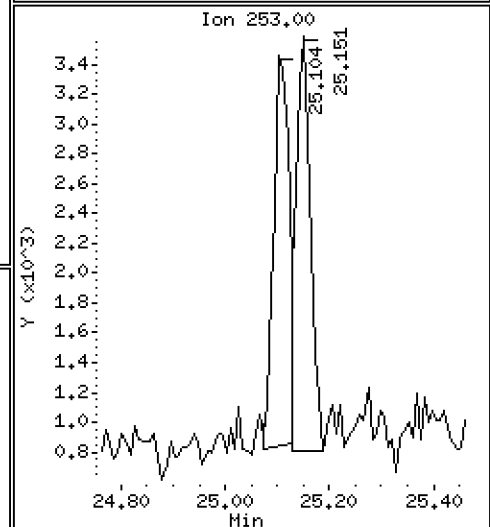
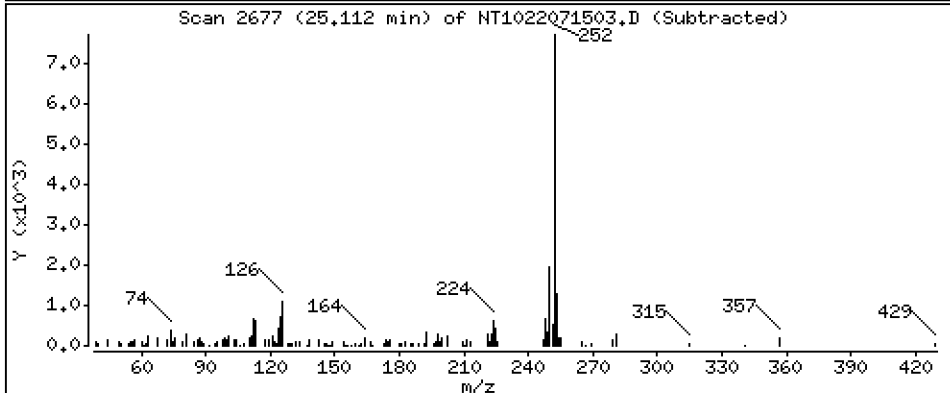
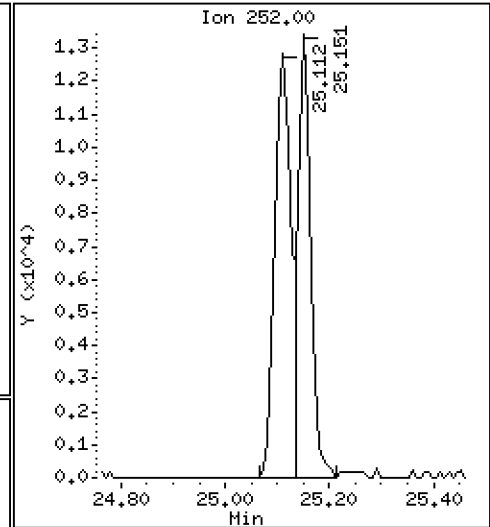
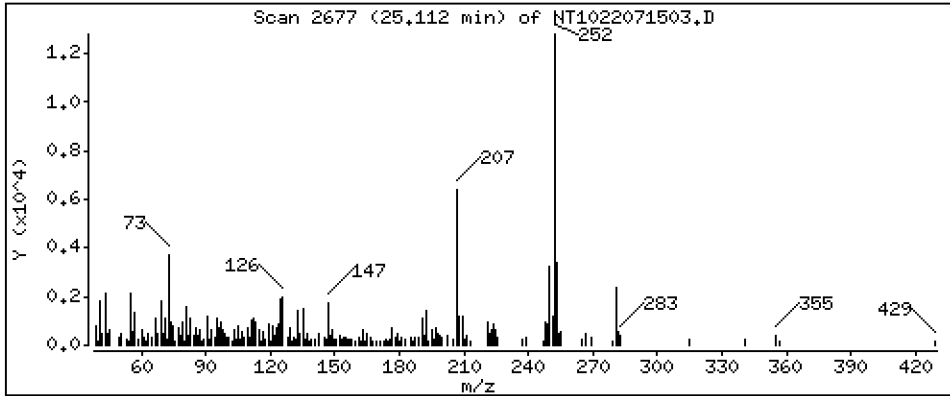
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5337 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

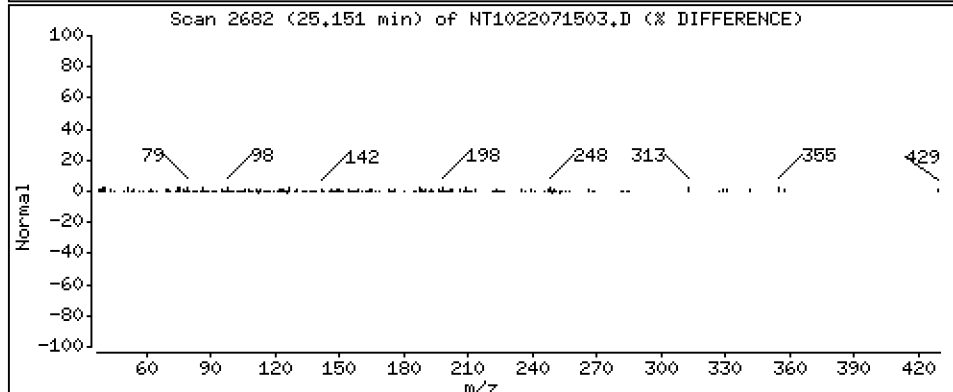
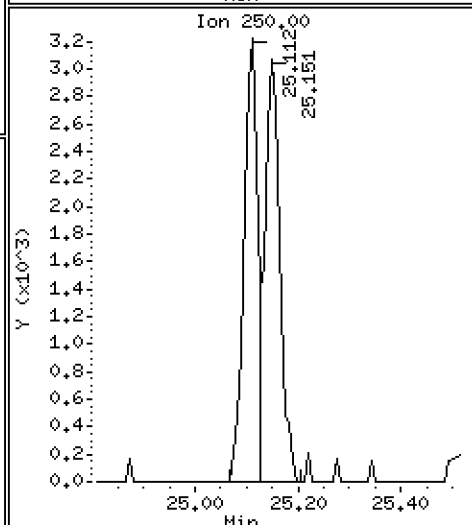
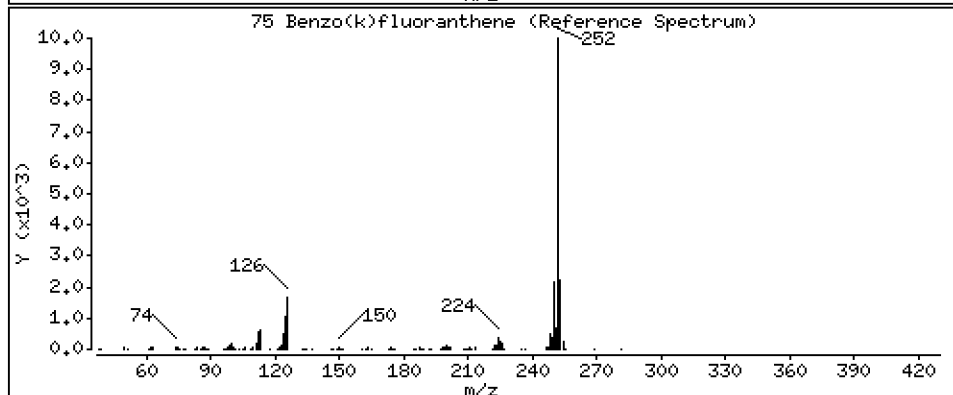
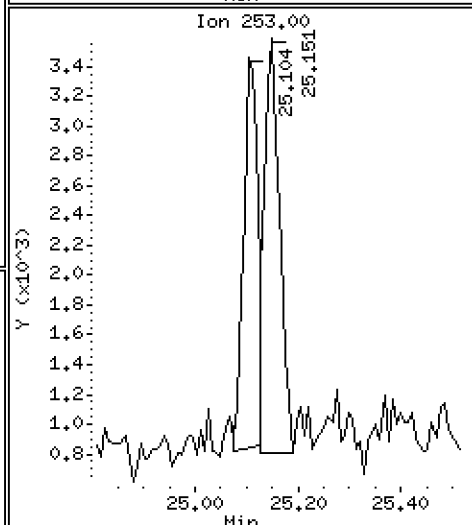
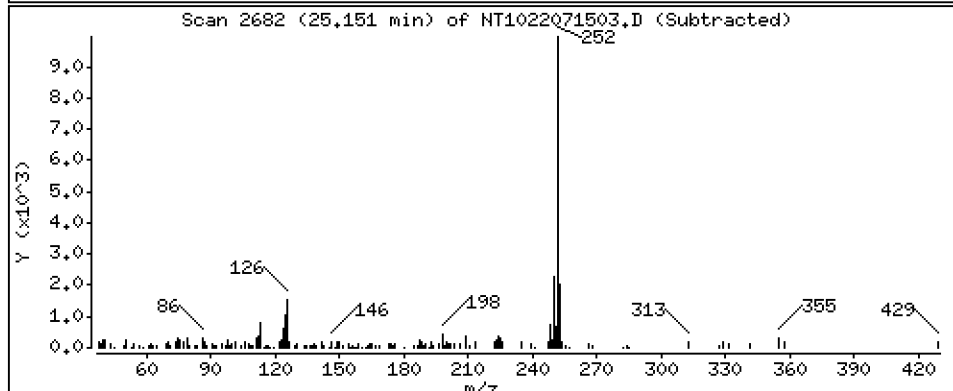
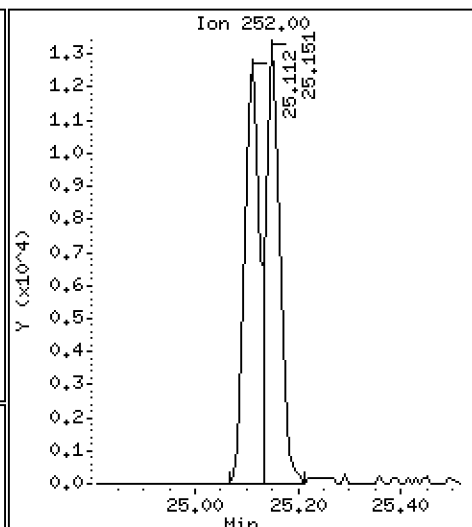
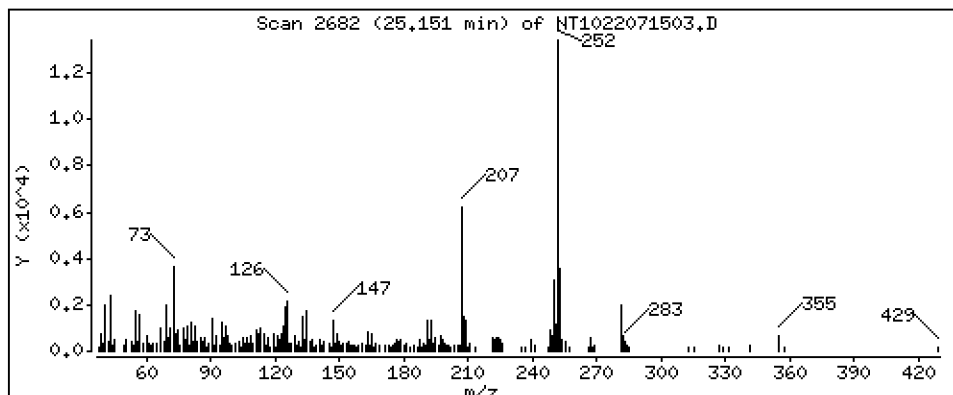
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,4808 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

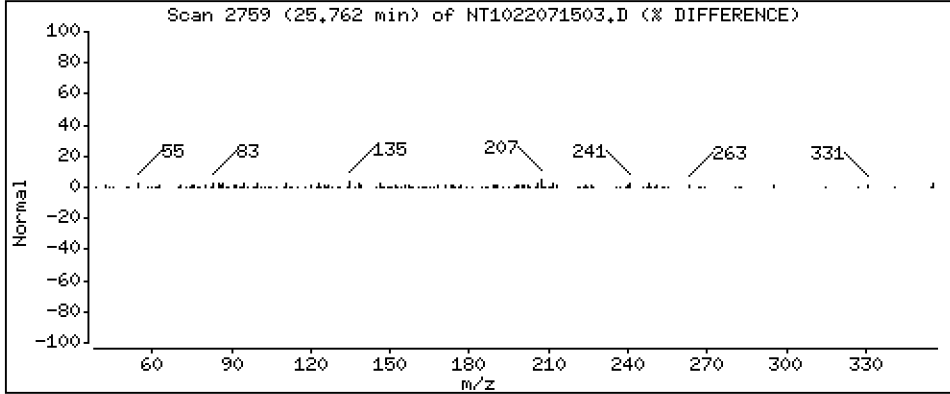
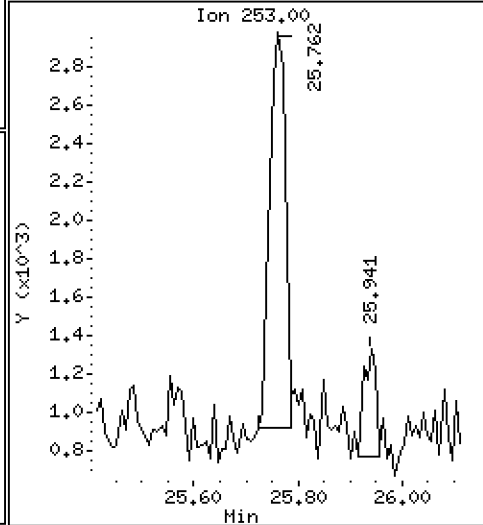
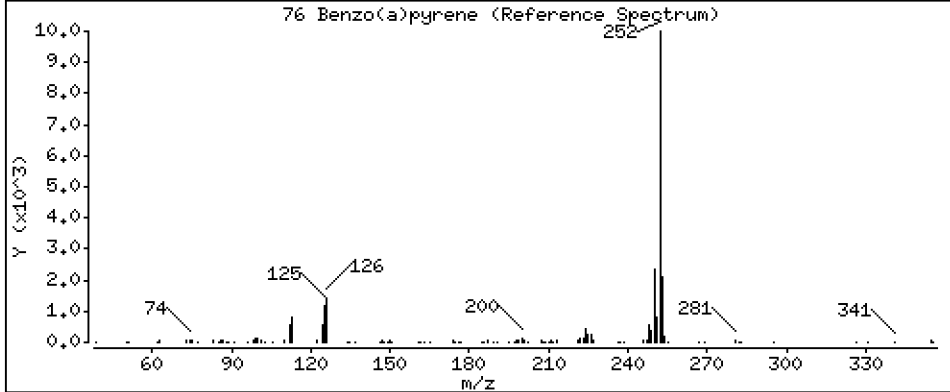
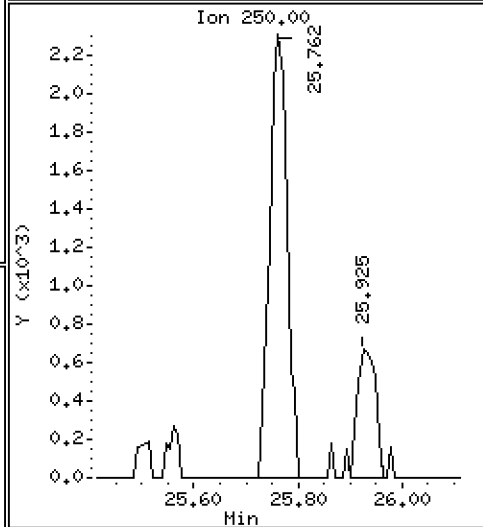
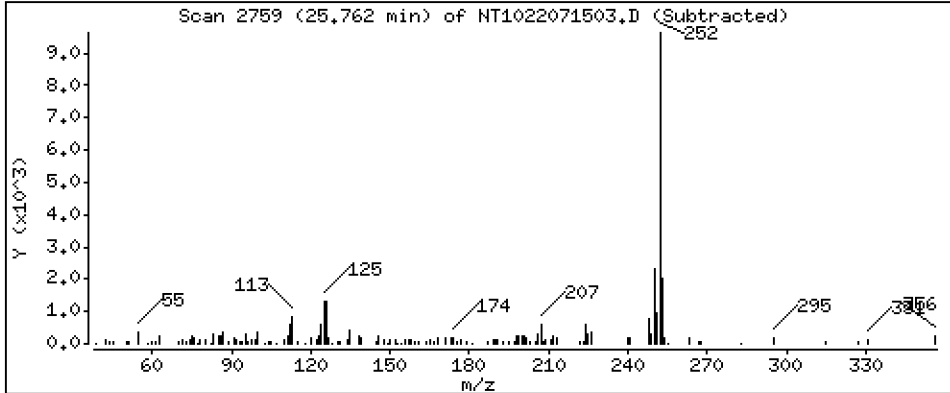
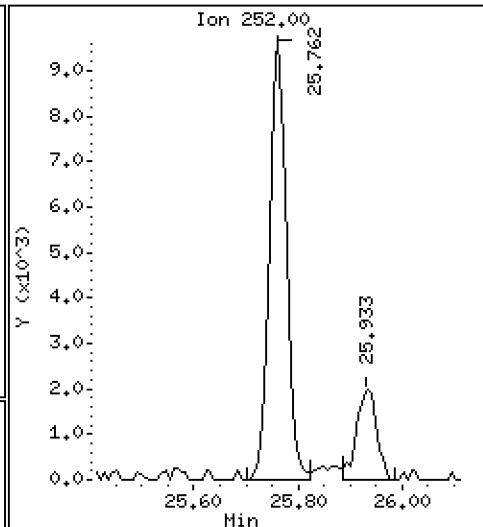
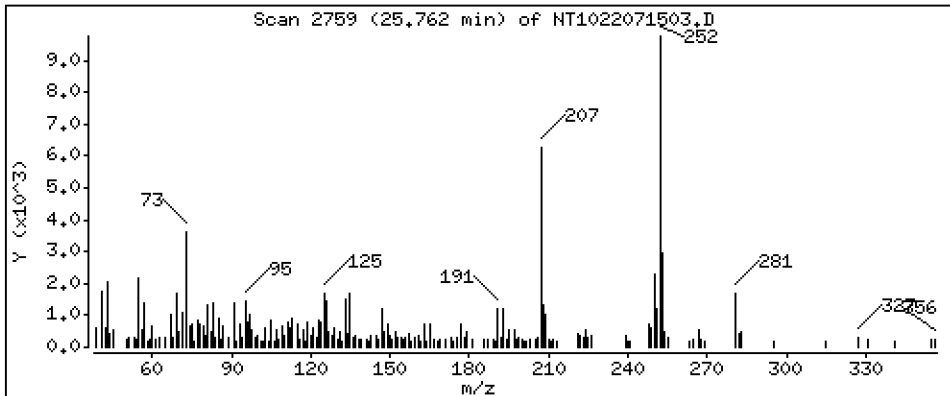
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,4898 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

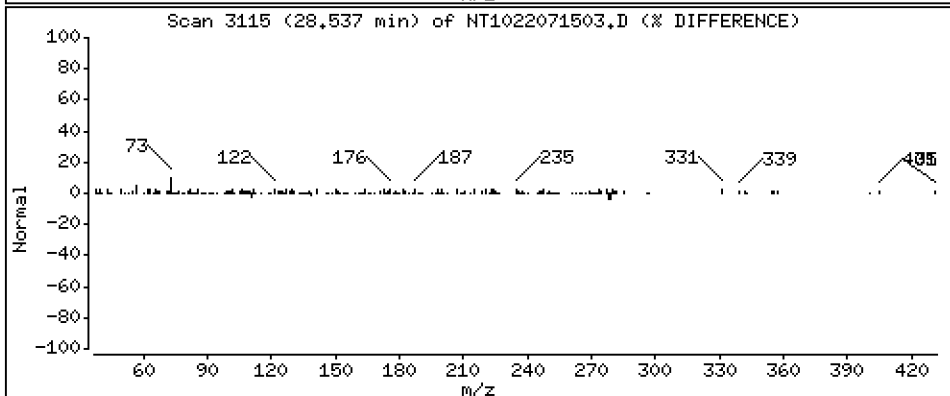
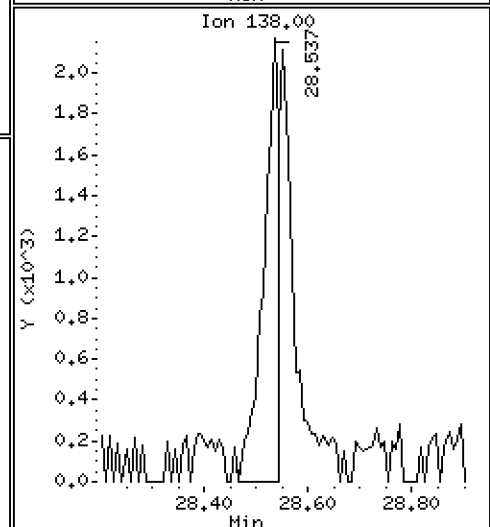
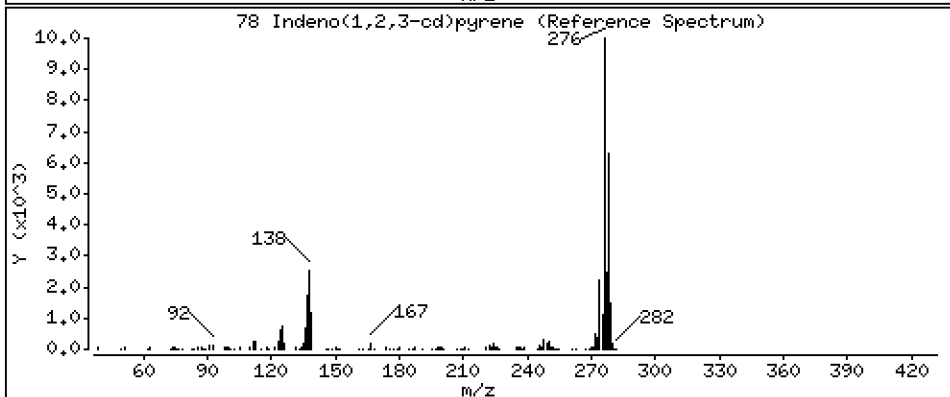
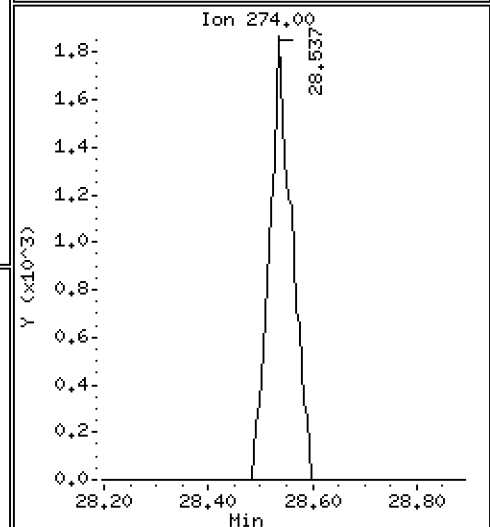
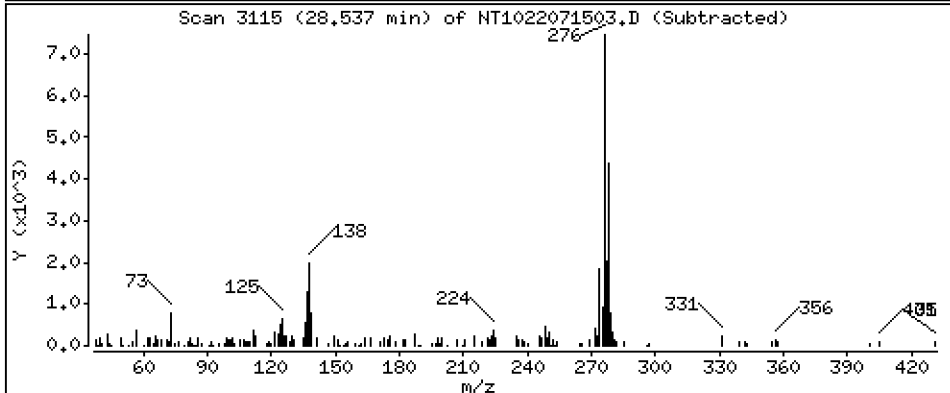
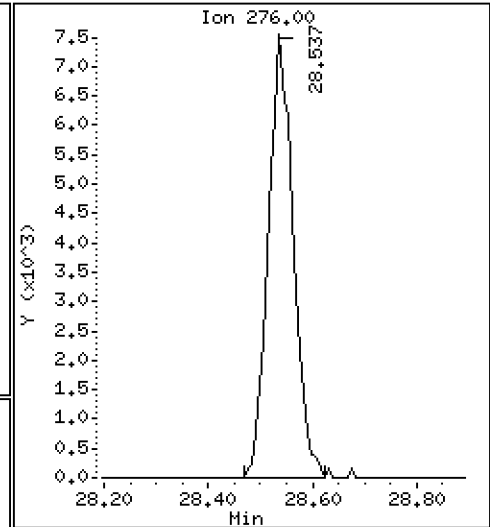
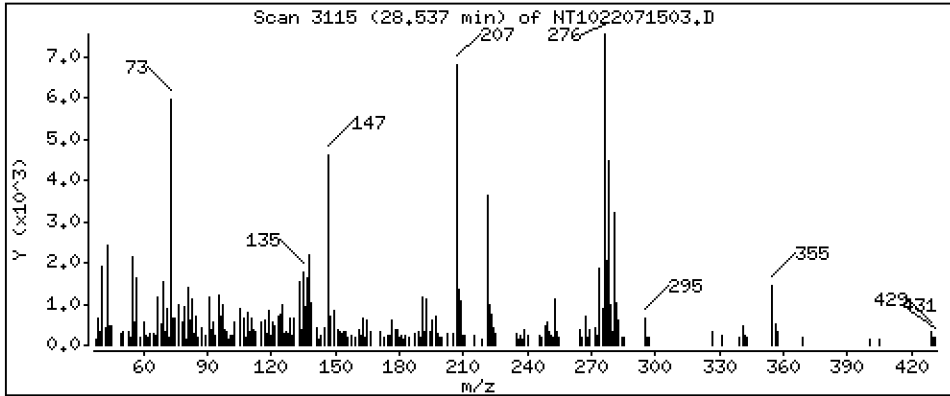
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,5421 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

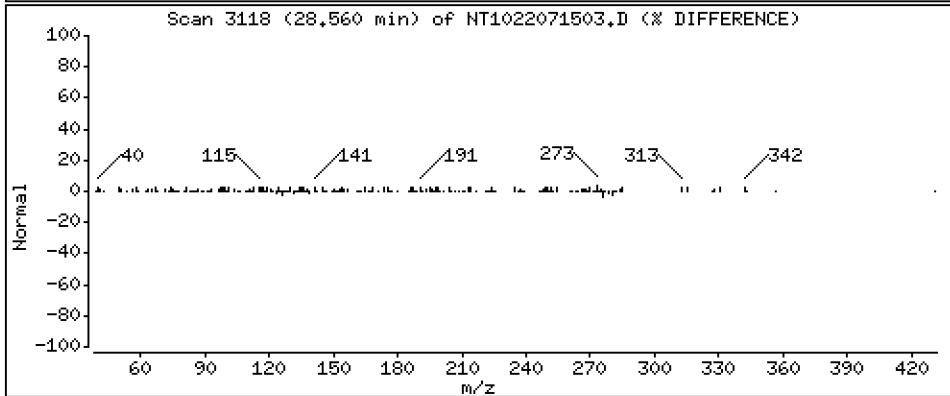
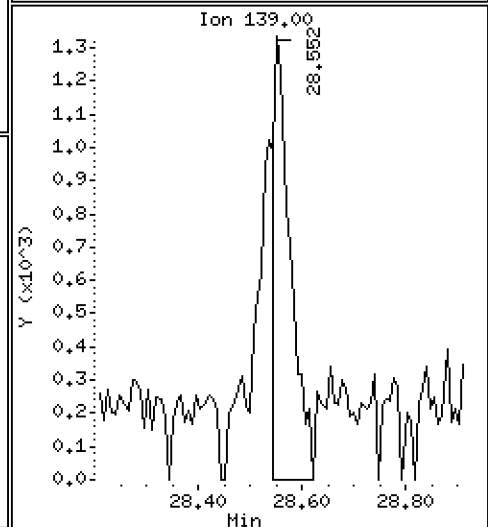
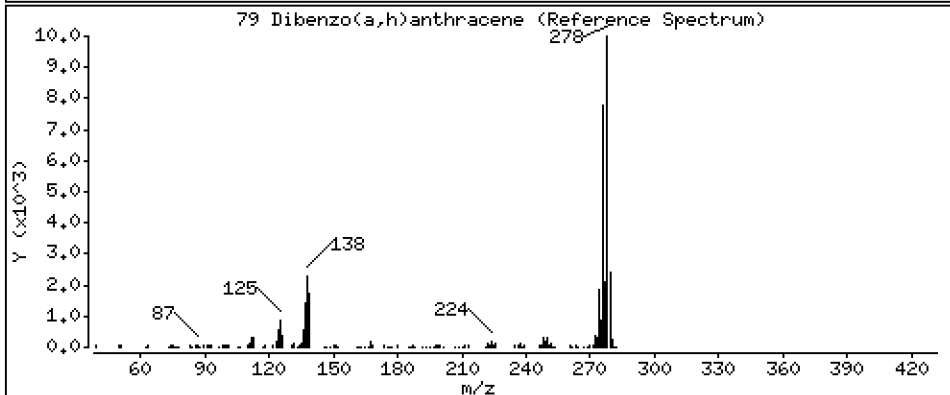
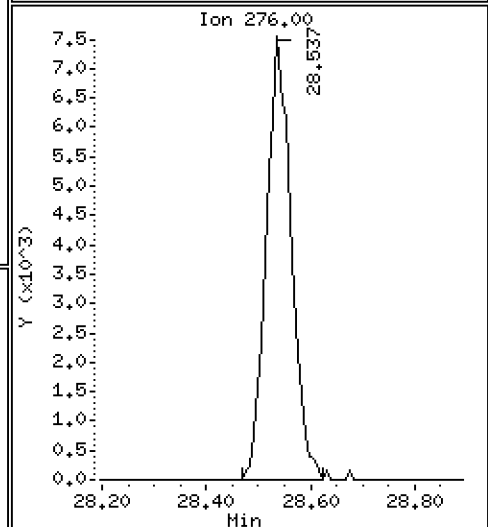
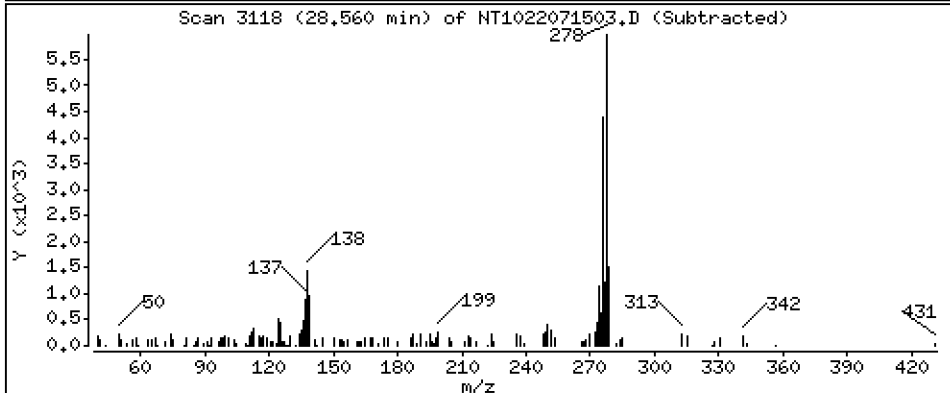
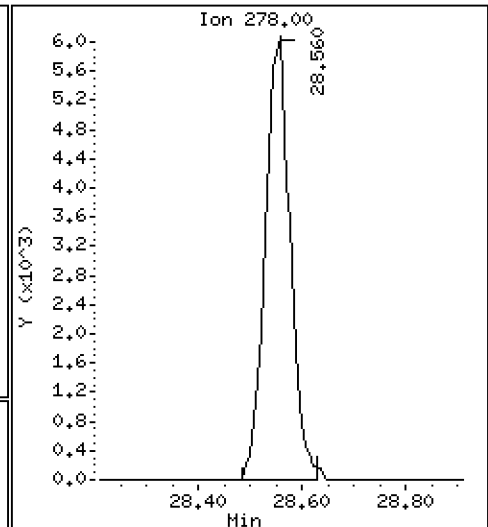
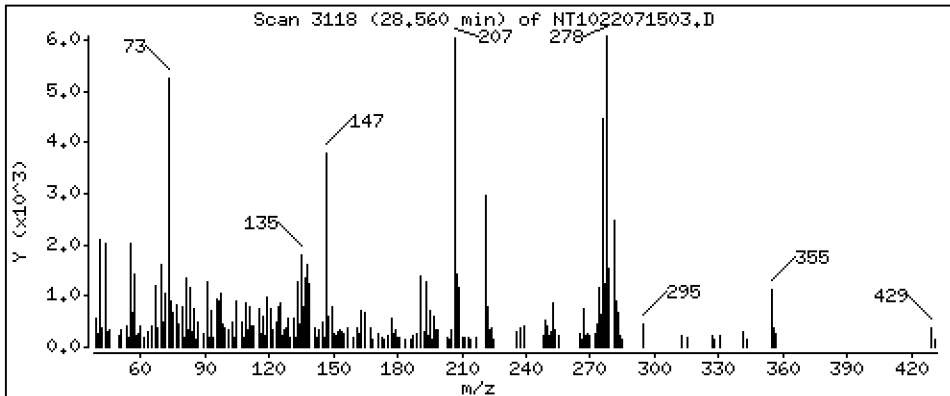
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,5745 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

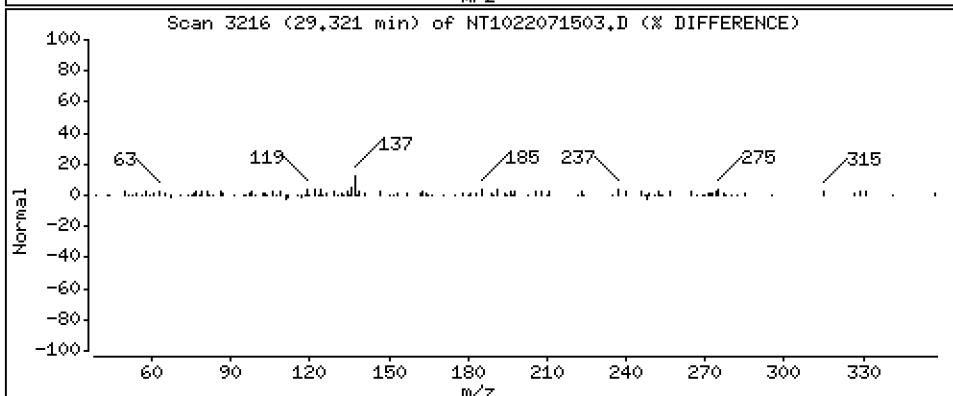
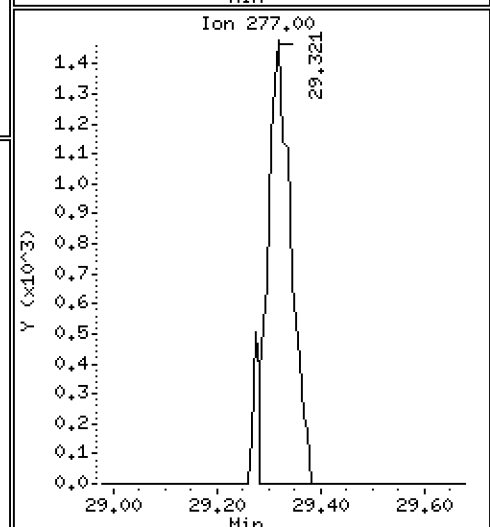
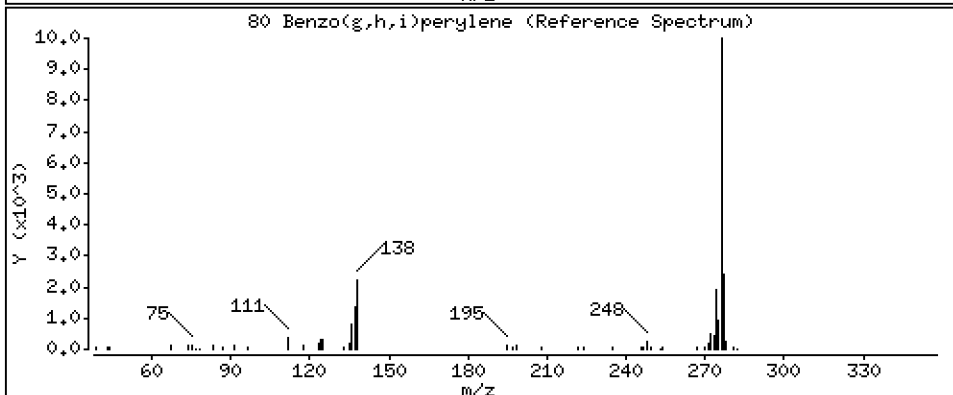
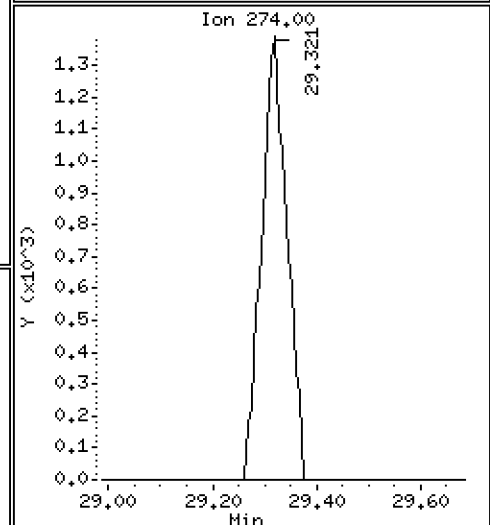
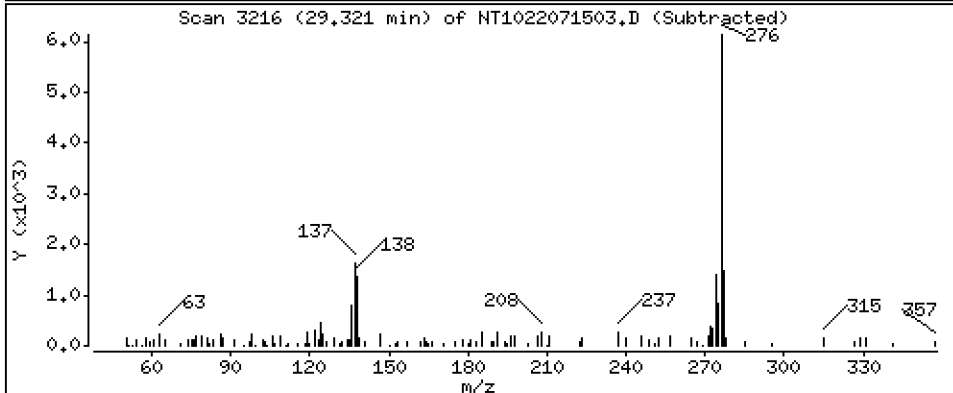
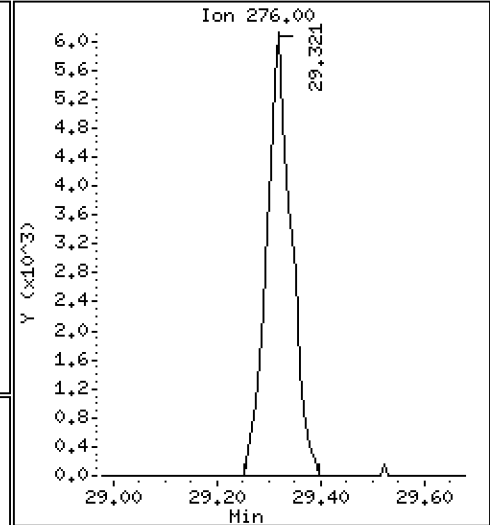
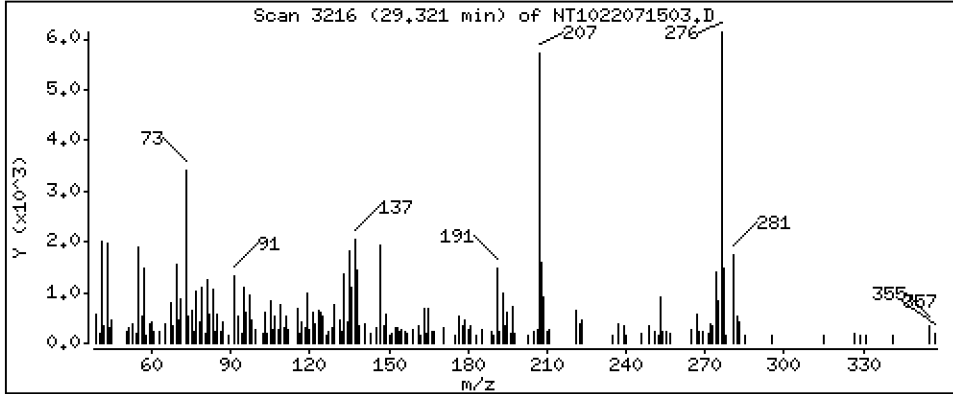
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,5508 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

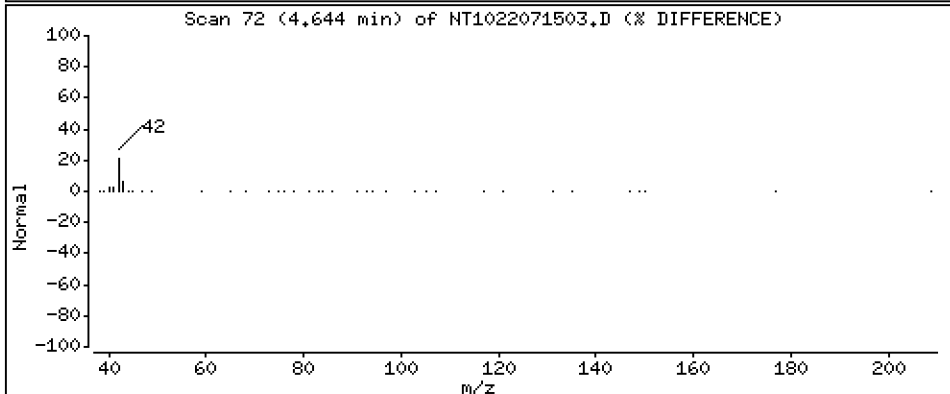
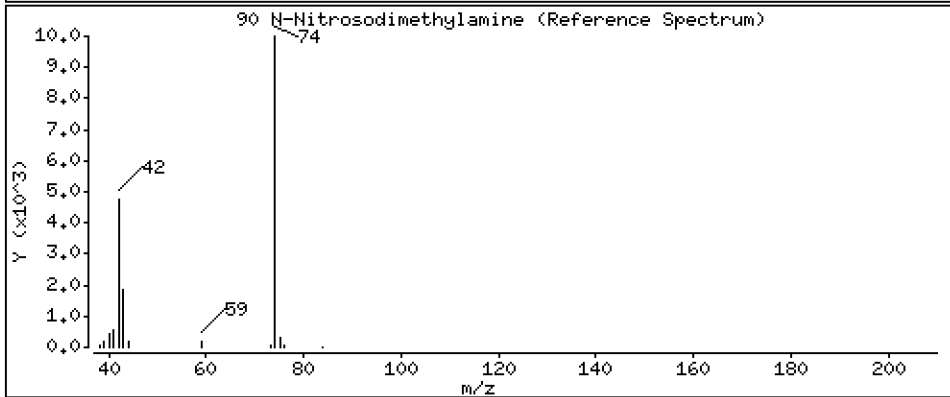
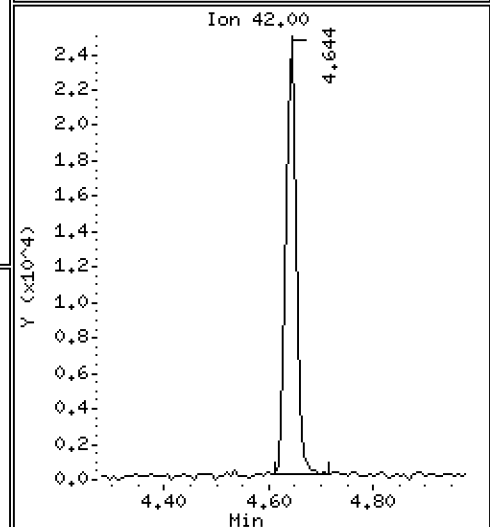
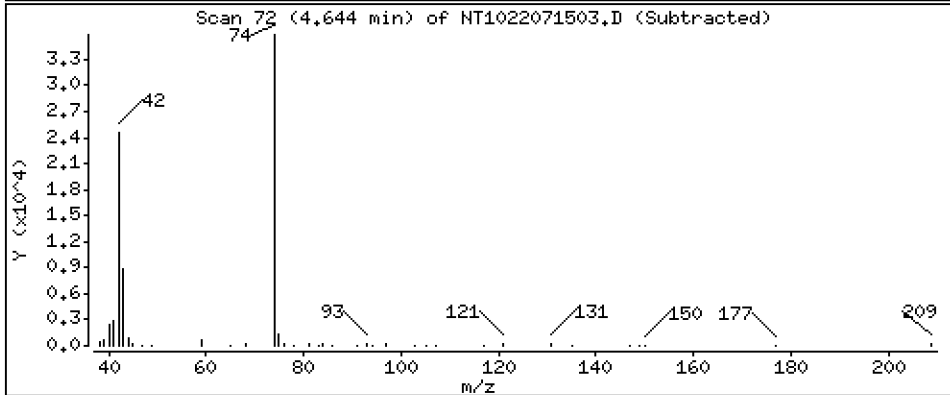
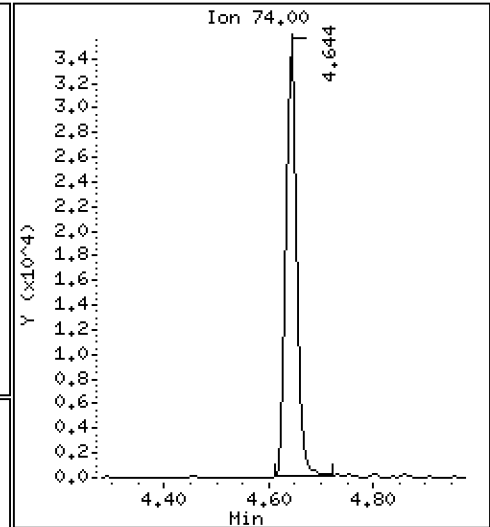
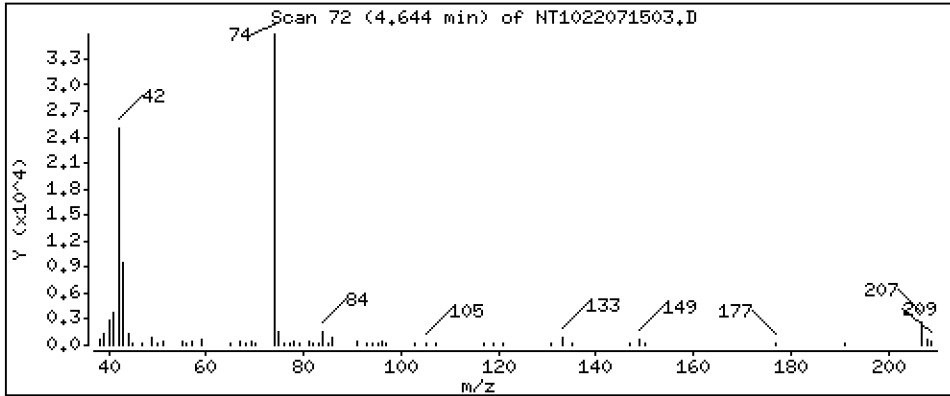
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,7993 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

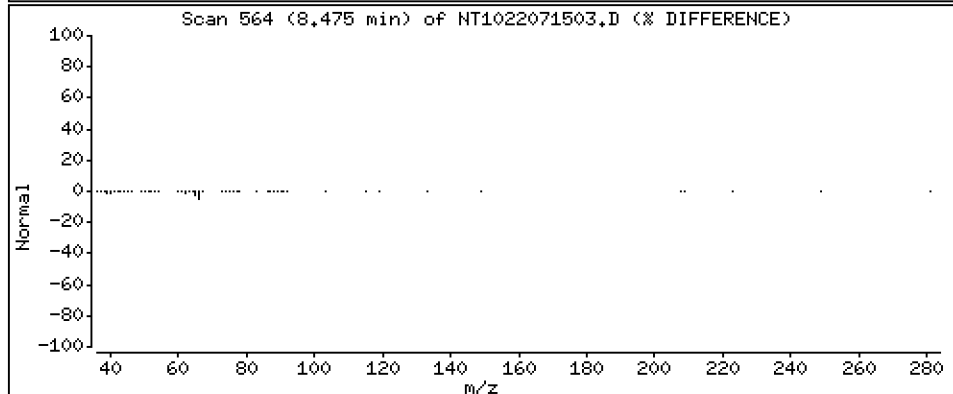
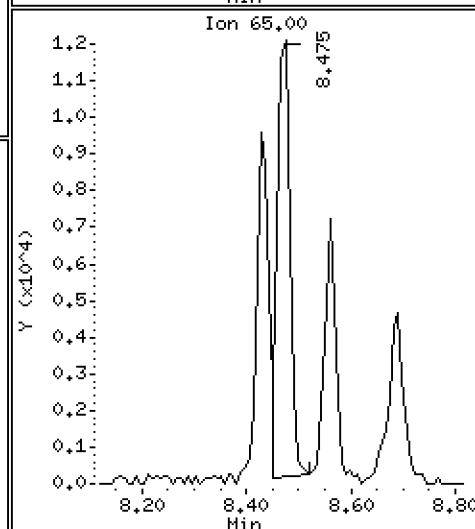
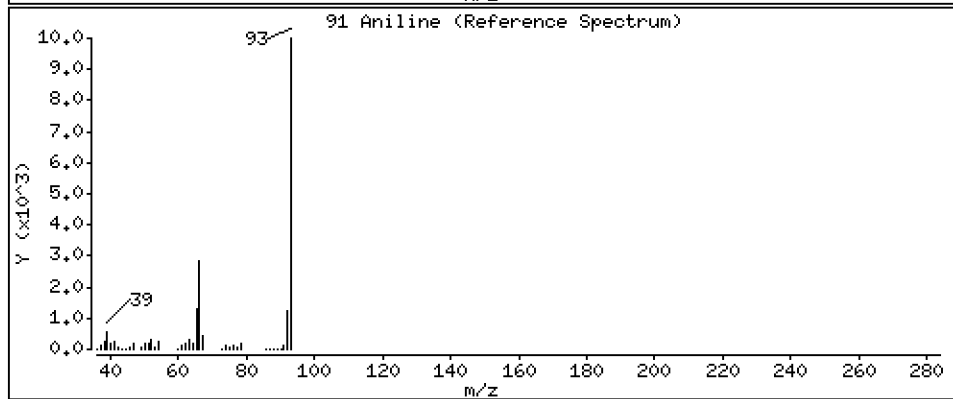
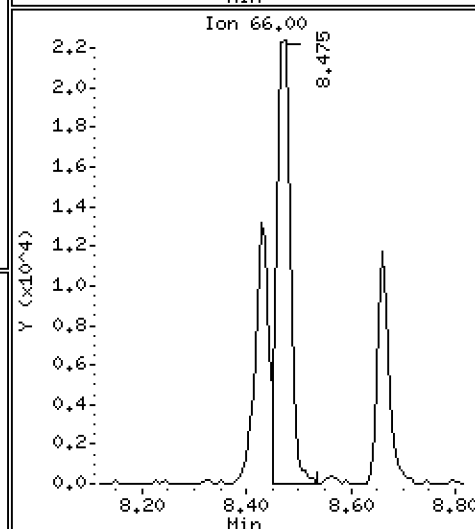
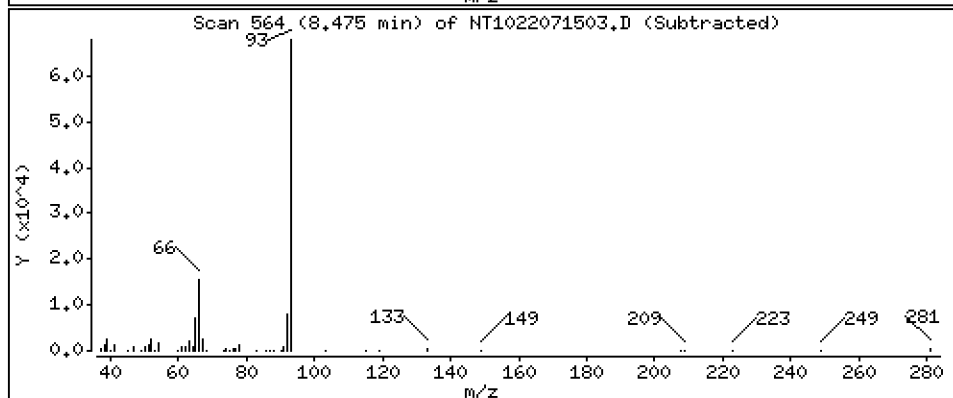
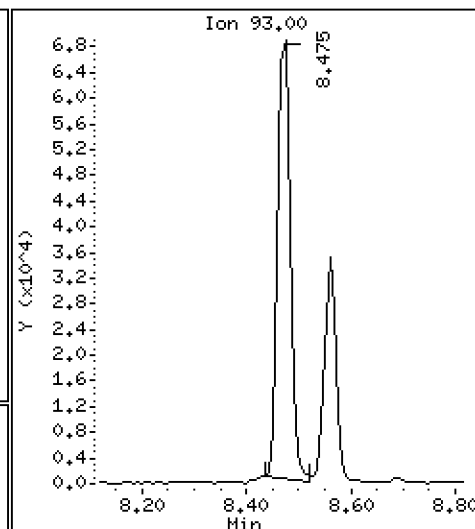
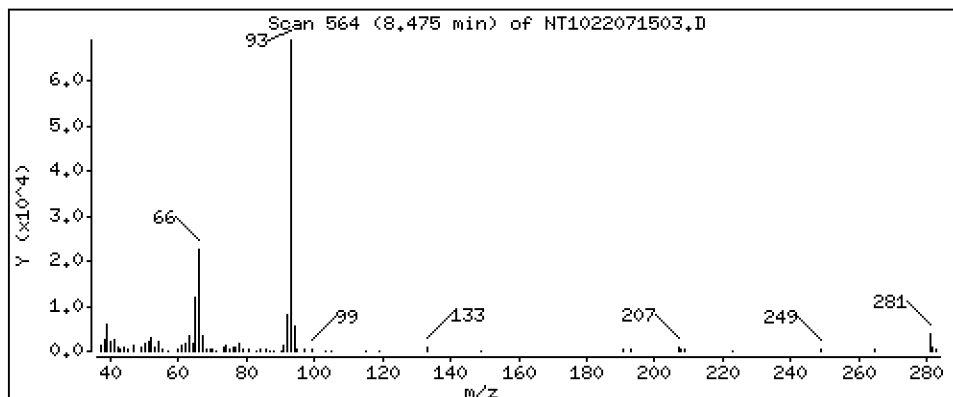
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,9161 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

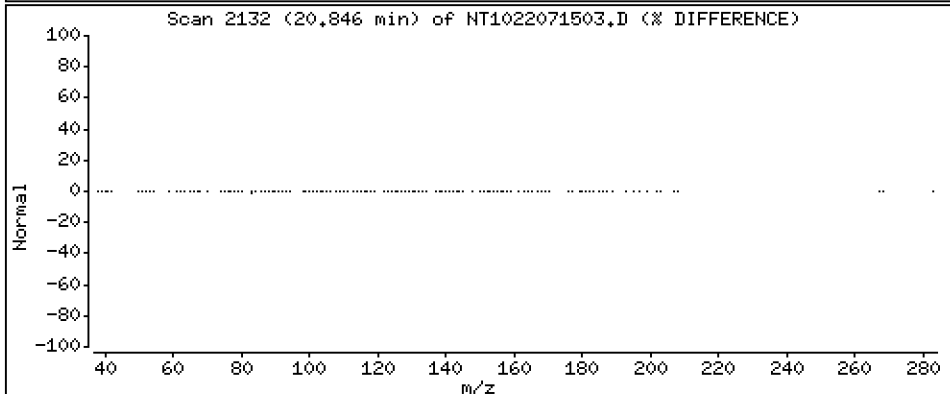
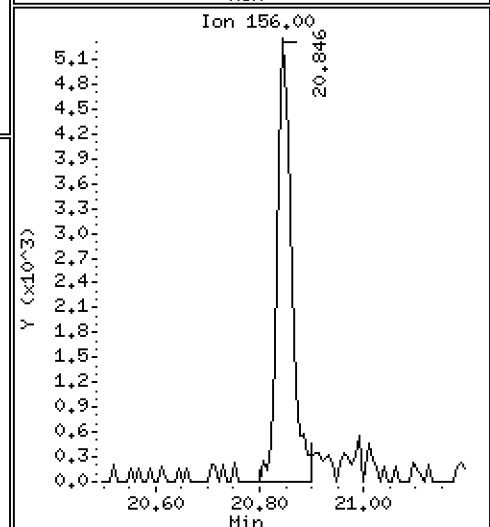
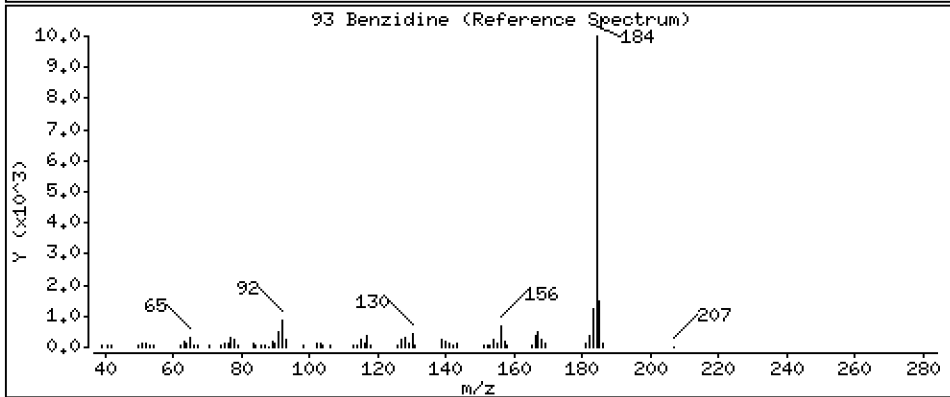
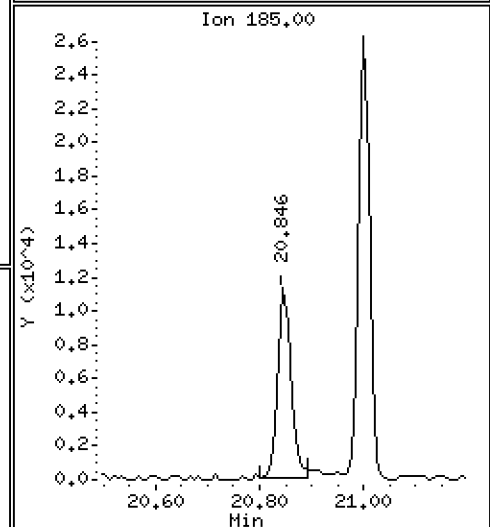
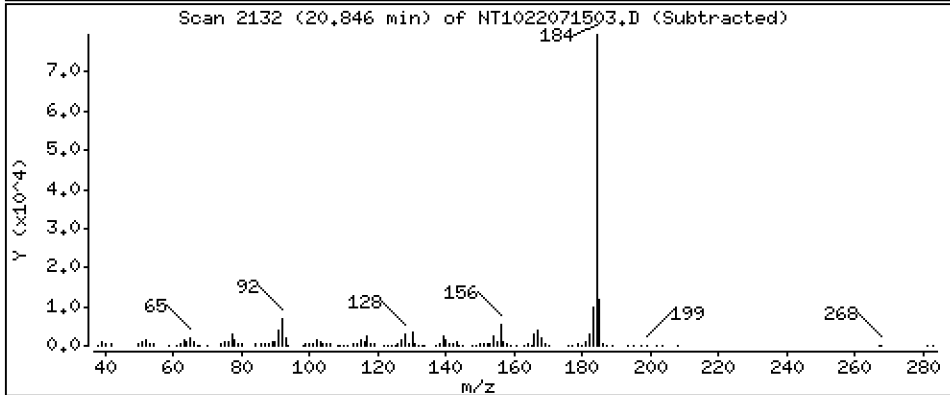
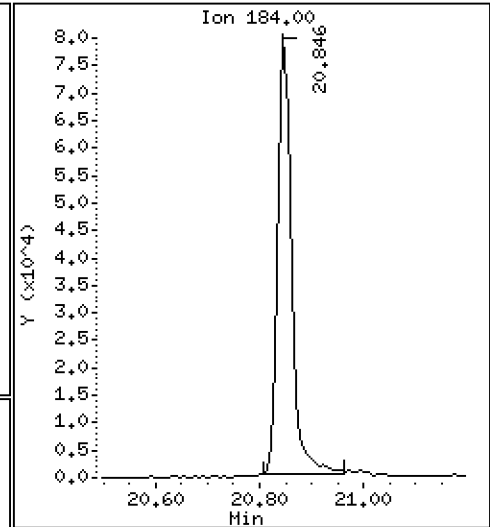
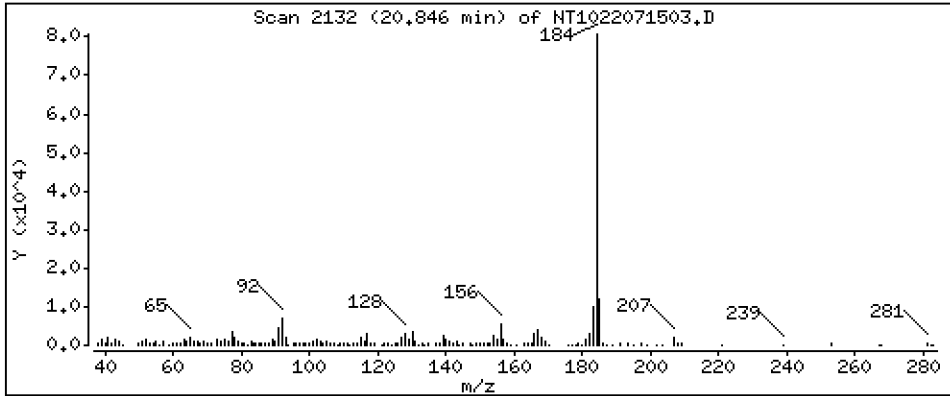
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,146 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

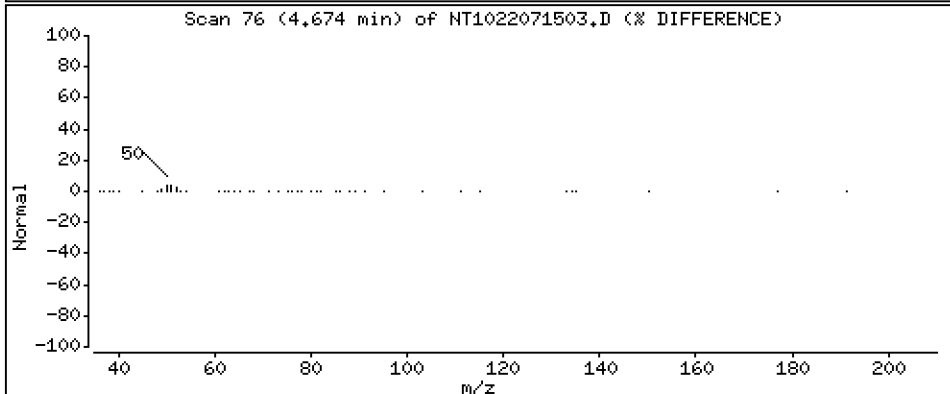
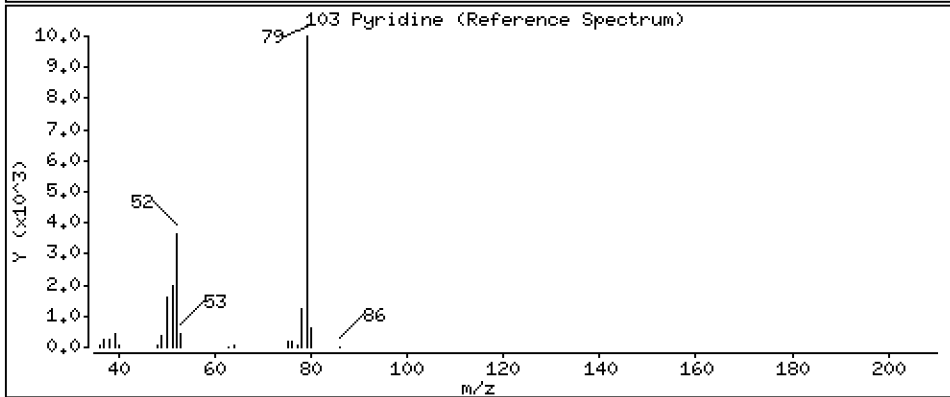
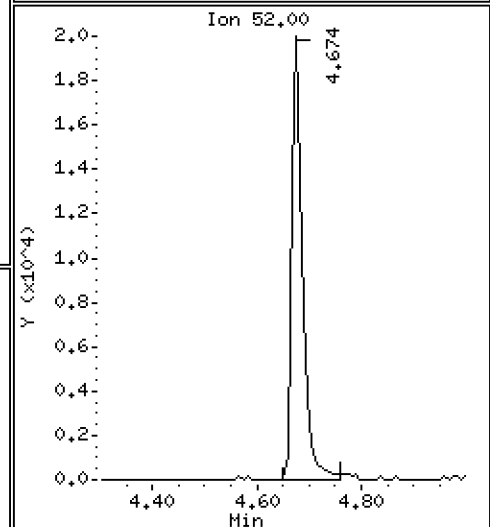
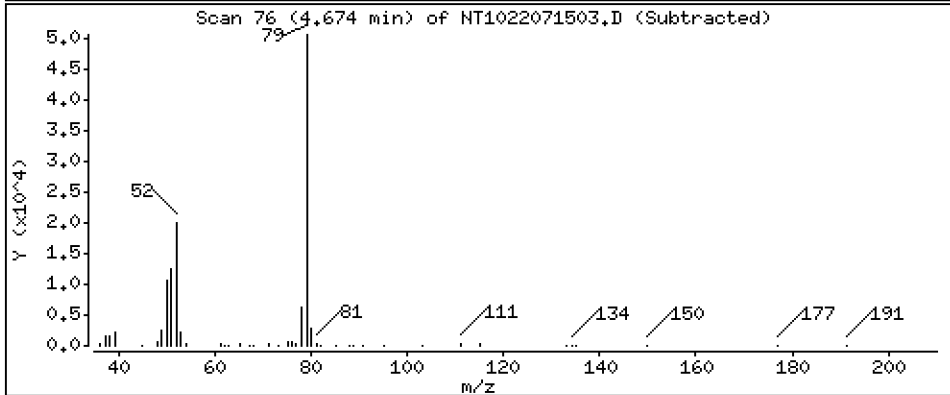
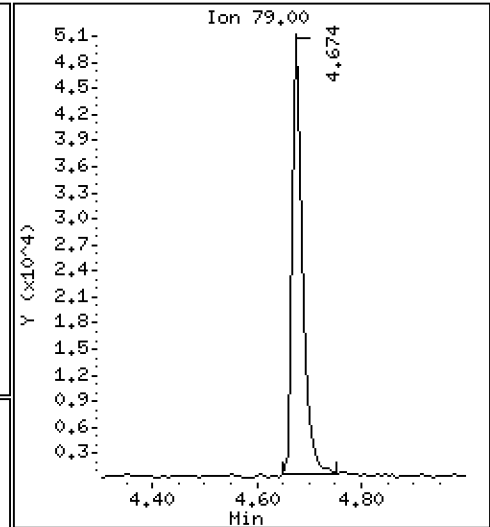
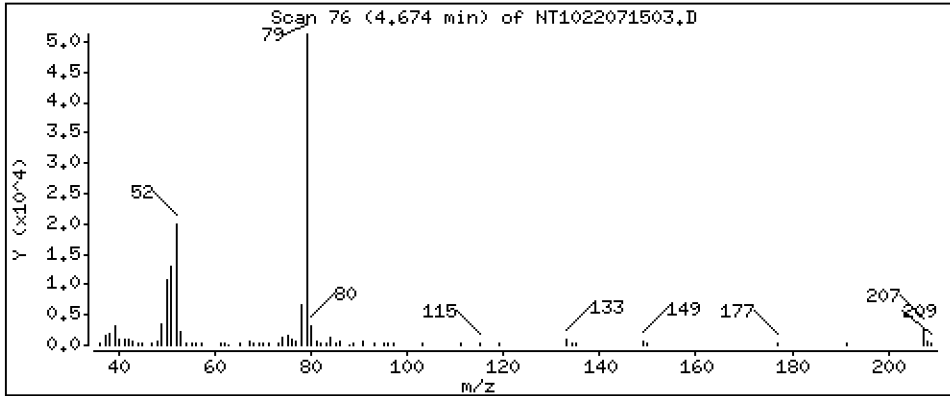
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,4202 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

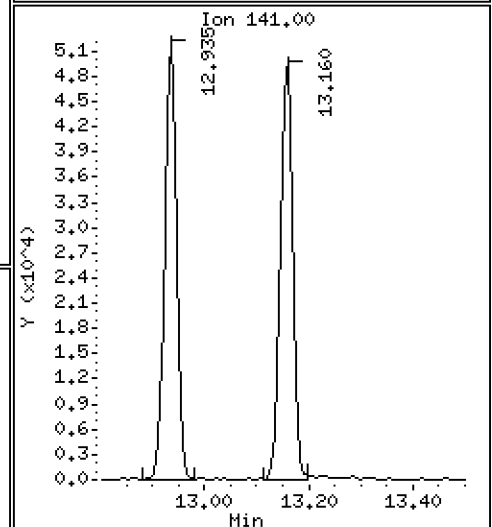
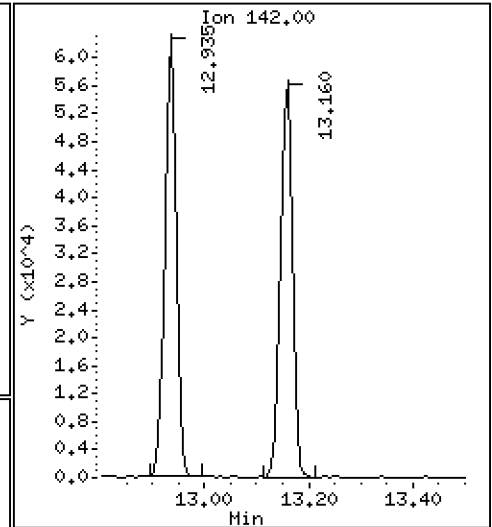
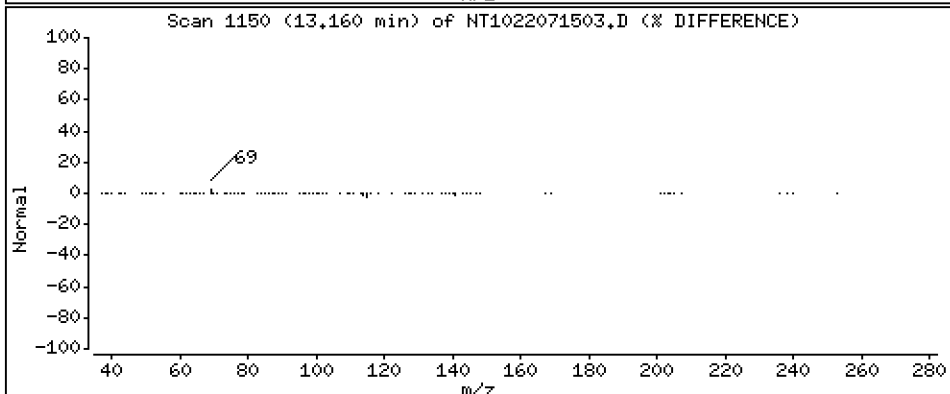
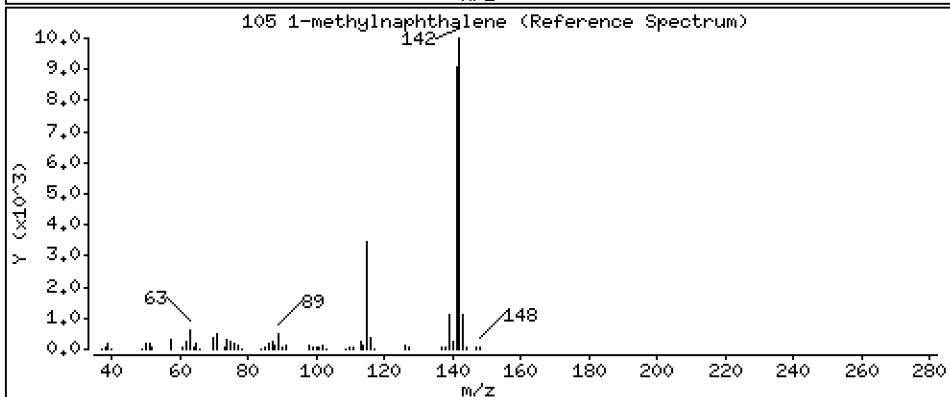
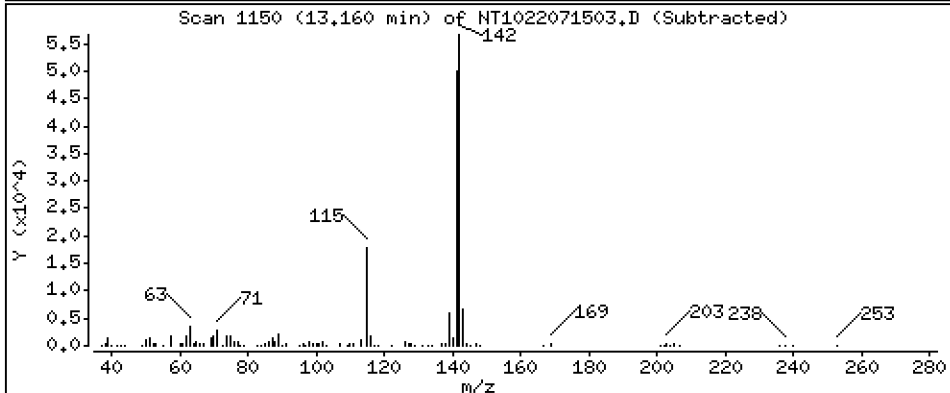
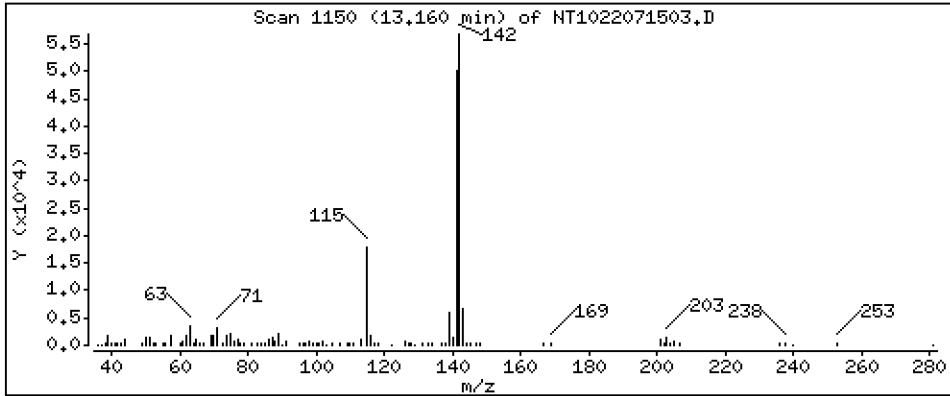
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,4550 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

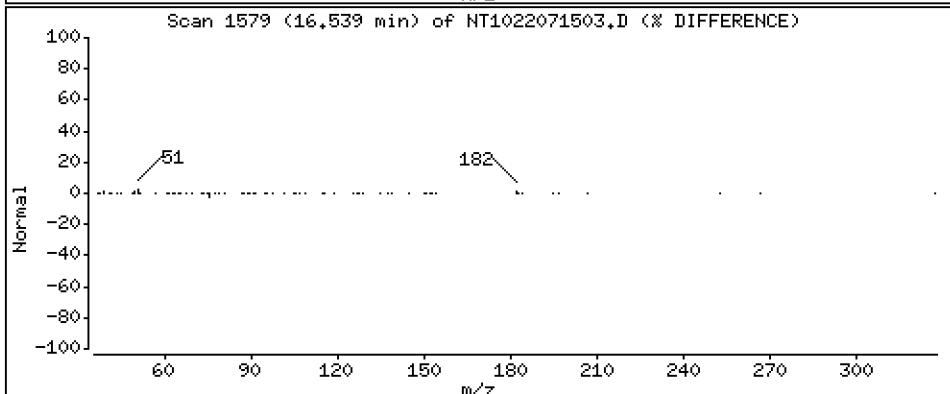
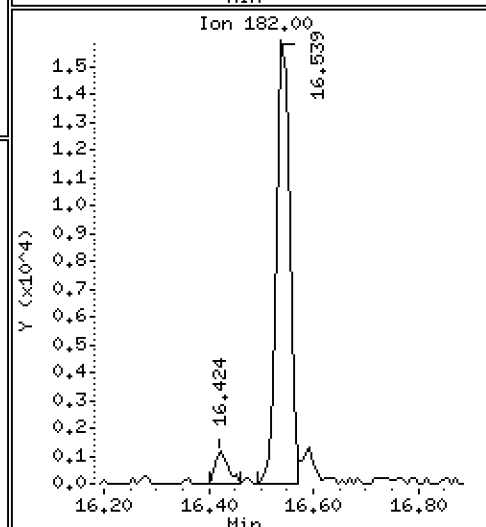
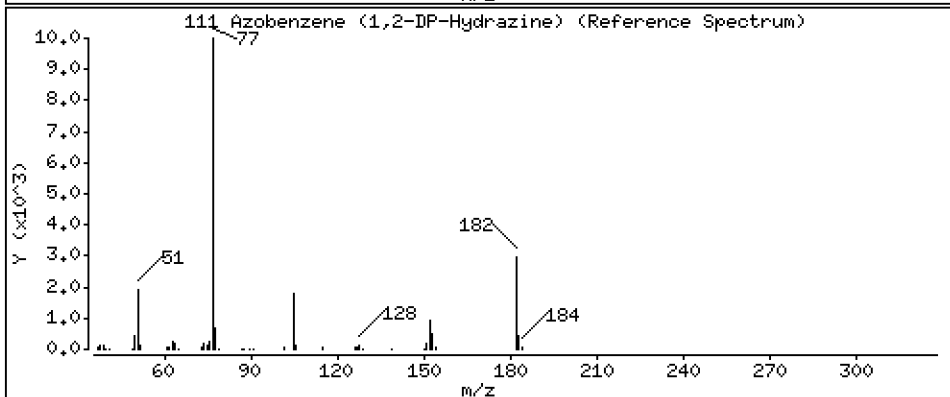
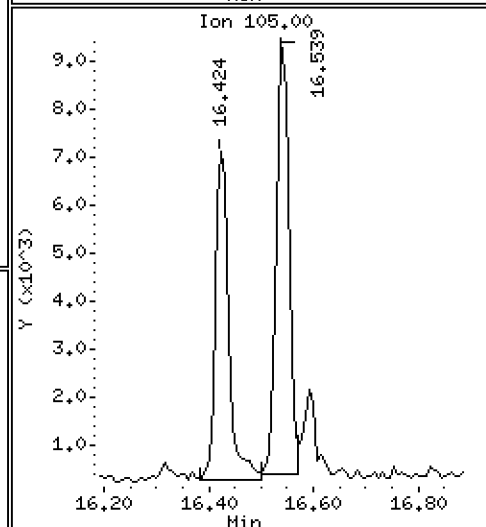
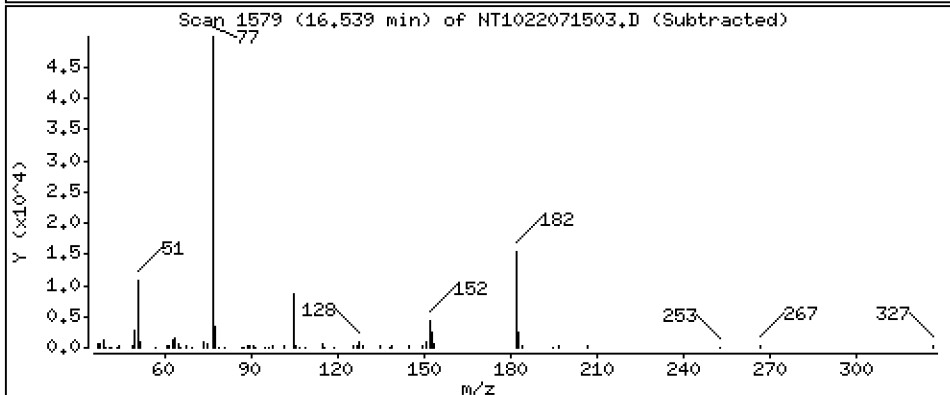
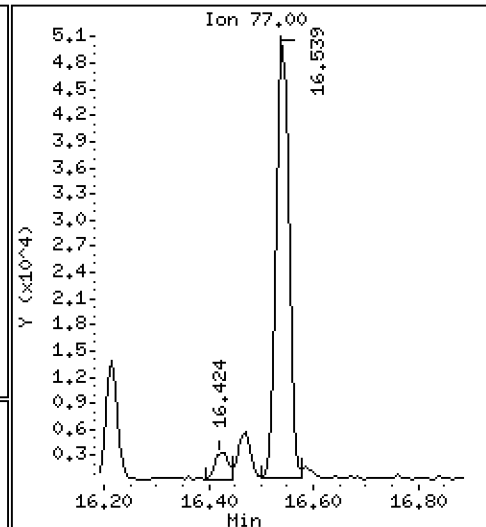
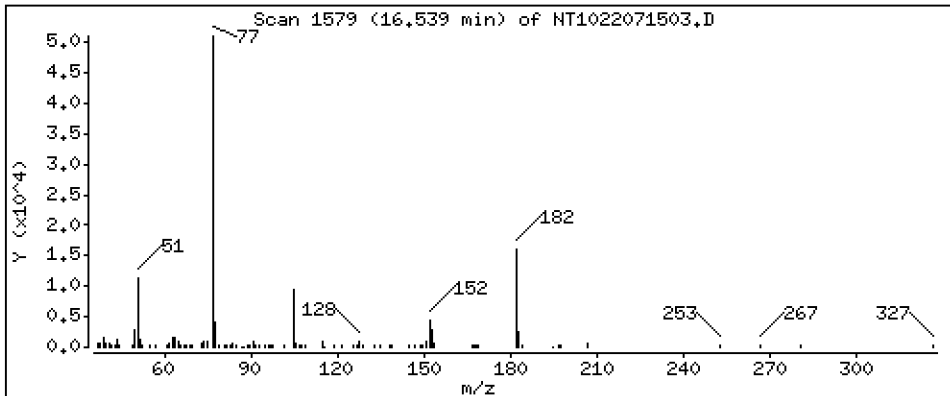
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,4997 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

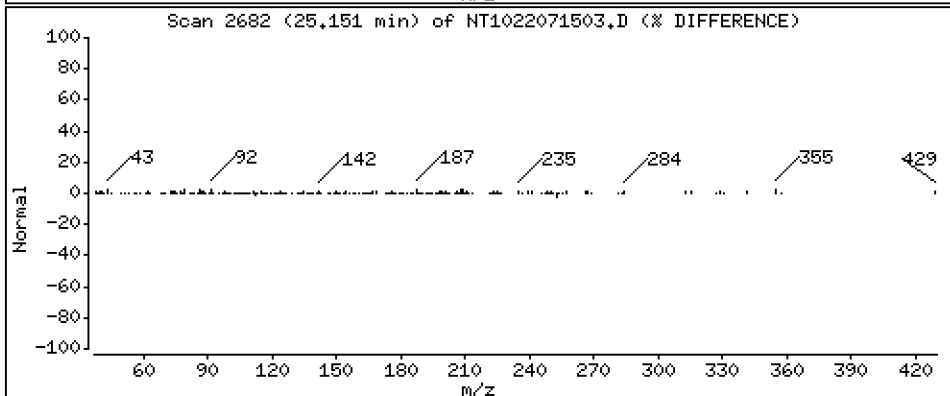
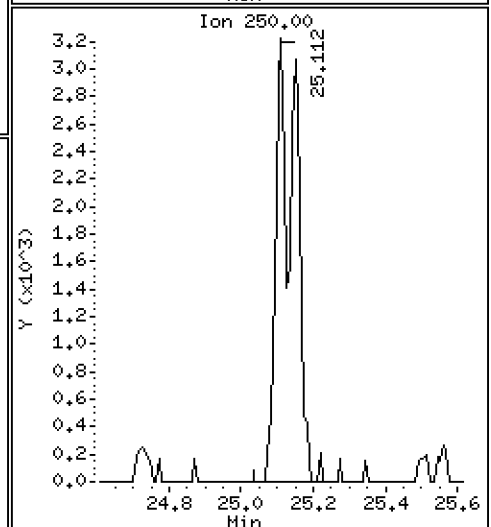
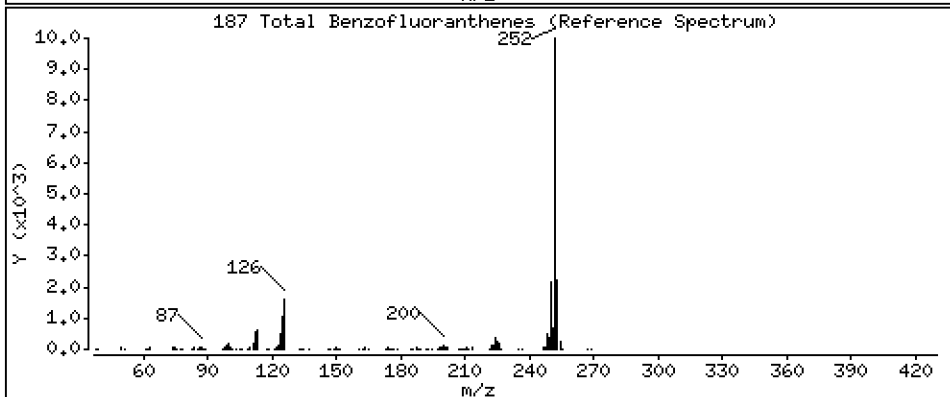
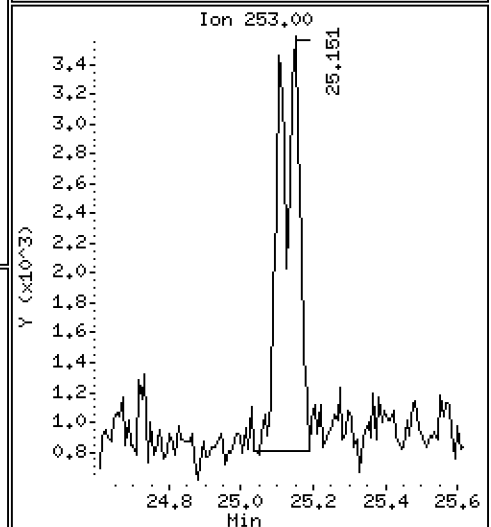
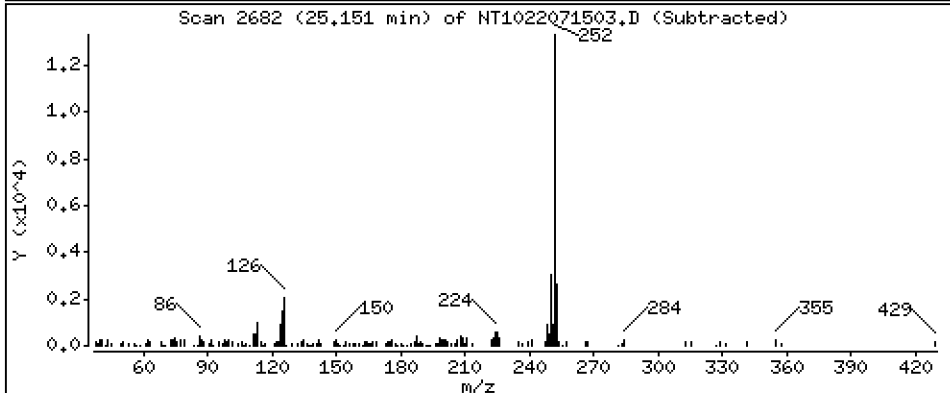
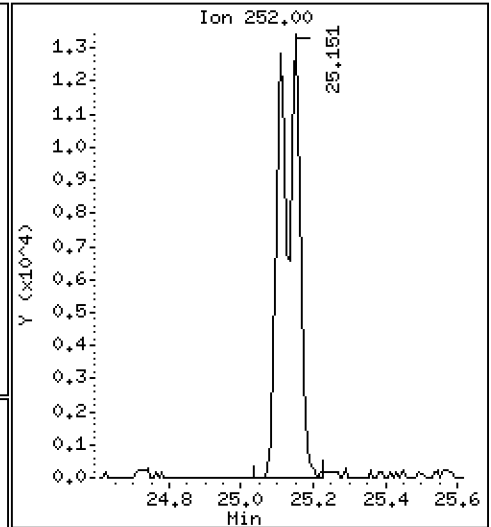
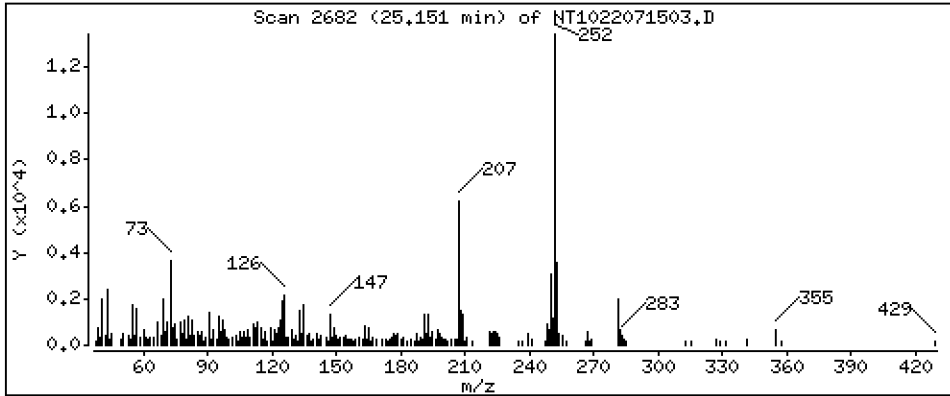
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,010 ug/mL



Date : 15-JUL-2022 13:28

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV1

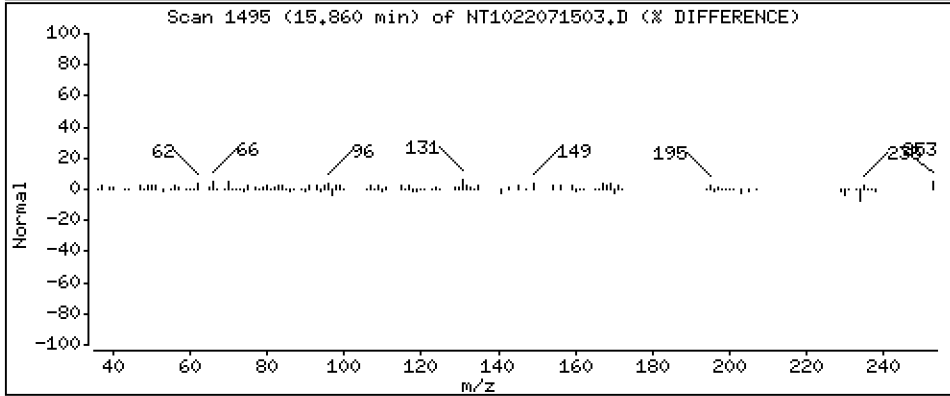
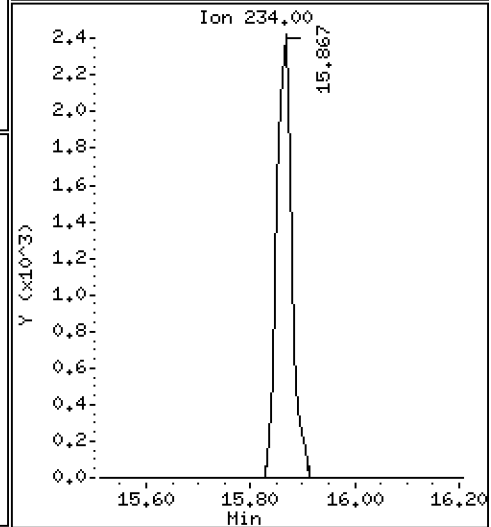
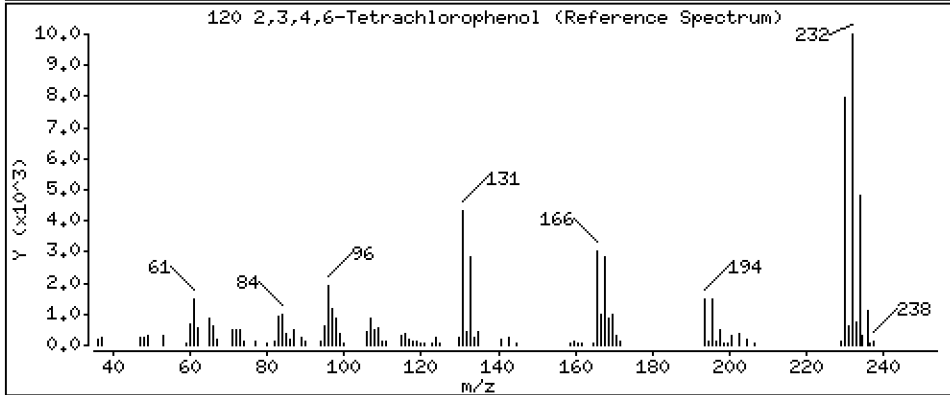
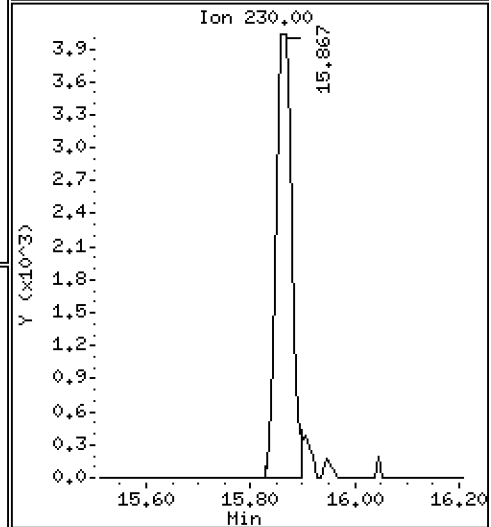
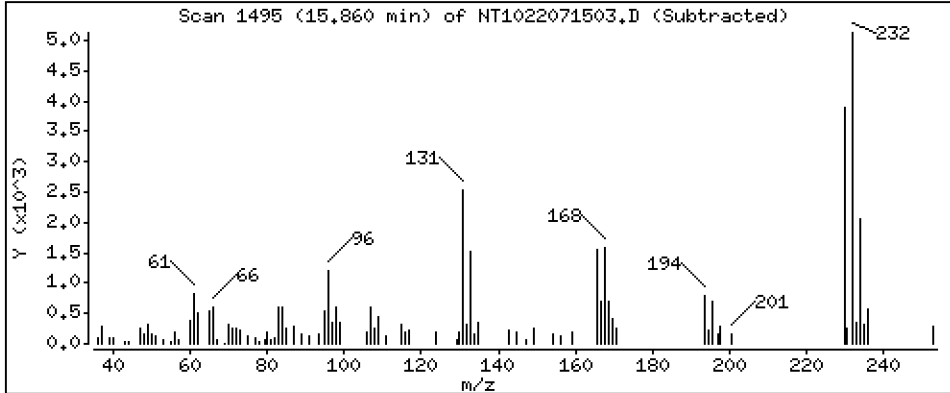
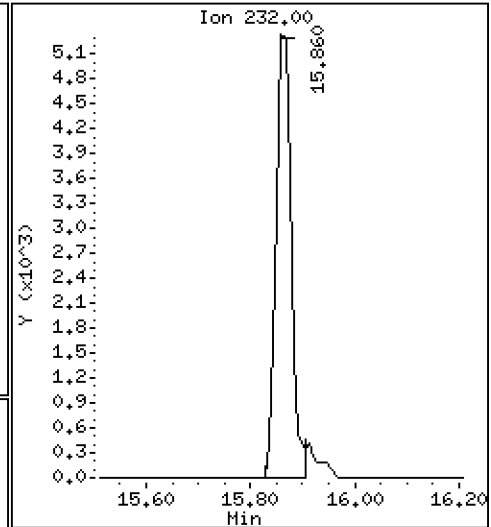
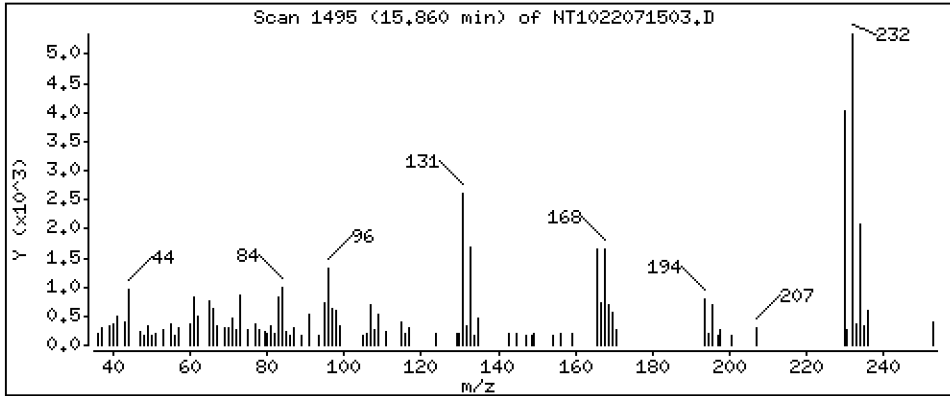
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,2900 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071503.D
 Lab Smp Id: SKG0154-LCV1
 Inj Date : 15-JUL-2022 13:28
 Operator : VTS
 Smp Info : SKG0154-LCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.821	6.806	(0.757)	78565	0.84467	0.8447
\$ 2 Phenol-d5	99		8.413	8.398	(0.933)	96418	0.69863	0.6986
3 Phenol	94		8.436	8.421	(0.936)	66201	0.55048	0.5505
\$ 5 2-Chlorophenol-d4	132		8.660	8.652	(0.961)	78625	0.82960	0.8296
4 Bis(2-Chloroethyl)ether	93		8.560	8.552	(0.949)	53537	0.61857	0.6186
6 2-Chlorophenol	128		8.691	8.683	(0.964)	50695	0.52876	0.5288
7 1,3-Dichlorobenzene	146		8.946	8.939	(0.992)	64404	0.62107	0.6211
* 8 1,4-Dichlorobenzene-d4	152		9.016	9.001	(1.000)	254722	4.00000	
9 1,4-Dichlorobenzene	146		9.047	9.032	(1.003)	42109	0.51515	0.5152
\$ 10 1,2-Dichlorobenzene-d4	152		9.373	9.366	(1.040)	33340	0.57089	0.5709
12 1,2-Dichlorobenzene	146		9.397	9.389	(1.042)	53118	0.61214	0.6121
11 Benzyl alcohol	108		9.296	9.280	(1.031)	26685	0.55702	0.5570
14 2,2'-oxybis(1-Chloropropane)	121		9.583	9.575	(1.063)	14991	0.73051	0.7305 (M)
13 2-Methylphenol	108		9.529	9.529	(1.057)	36909	0.49778	0.4978
17 Hexachloroethane	117		9.987	9.979	(1.108)	17994	0.49383	0.4938
16 N-Nitroso-di-n-propylamine	70		9.839	9.831	(1.091)	28536	0.55337	0.5534
15 4-Methylphenol	108		9.800	9.793	(1.087)	39968	0.50439	0.5044
\$ 18 Nitrobenzene-d5	82		10.103	10.095	(0.879)	43682	0.53074	0.5307
19 Nitrobenzene	77		10.142	10.134	(0.882)	45310	0.54621	0.5462
20 Isophorone	82		10.584	10.584	(0.921)	63866	0.53221	0.5322
21 2-Nitrophenol	139		10.768	10.759	(0.937)	24350	0.46473	0.4647
22 2,4-Dimethylphenol	107		10.844	10.836	(0.943)	74673	1.17317	1.173
23 Bis(2-Chloroethoxy)methane	93		11.014	11.014	(0.958)	45124	0.62588	0.6259
24 Benzoic acid	105		10.980	11.065	(0.955)	23674	0.72146	0.7215
25 2,4-Dichlorophenol	162		11.243	11.234	(0.978)	65790	1.01700	1.017
26 1,2,4-Trichlorobenzene	180		11.411	11.403	(0.993)	46870	0.67500	0.6750
* 27 Naphthalene-d8	136		11.496	11.488	(1.000)	773487	4.00000	
28 Naphthalene	128		11.535	11.535	(1.003)	109742	0.55437	0.5544
29 4-Chloroaniline	127		11.674	11.666	(1.015)	82390	0.94258	0.9426
30 Hexachlorobutadiene	225		11.898	11.890	(1.035)	22067	0.66616	0.6662
31 4-Chloro-3-methylphenol	107		12.664	12.656	(1.102)	64000	0.83859	0.8386
32 2-Methylnaphthalene	142		12.935	12.927	(1.125)	96994	0.49300	0.4930
33 Hexachlorocyclopentadiene	237							Compound Not Detected.

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====	=====	=====	=====	=====	=====	=====
34 2,4,6-Trichlorophenol	196	13.569	13.569	(0.898)	46924	1.02347	1.023
35 2,4,5-Trichlorophenol	196	13.662	13.647	(0.904)	51935	0.94350	0.9435
\$ 36 2-Fluorobiphenyl	172	13.716	13.716	(0.907)	110241	0.60389	0.6039
37 2-Chloronaphthalene	162	13.925	13.925	(0.921)	97689	0.60703	0.6070
38 2-Nitroaniline	65	14.188	14.188	(0.939)	42064	0.97716	0.9772
39 Dimethylphthalate	163	14.622	14.622	(0.967)	111764	0.79003	0.7900
40 Acenaphthylene	152	14.800	14.800	(0.979)	140620	0.59632	0.5963
41 2,6-Dinitrotoluene	165	14.761	14.761	(0.976)	41120	1.25152	1.252
* 42 Acenaphthene-d10	164	15.117	15.109	(1.000)	403405	4.00000	
43 3-Nitroaniline	138	15.048	15.048	(0.995)	48837	1.26264	1.263
44 Acenaphthene	153	15.179	15.179	(1.004)	66048	0.56297	0.5630
45 2,4-Dinitrophenol	184	15.280	15.272	(1.011)	3368	0.23132	0.2313
46 Dibenzofuran	168	15.511	15.511	(1.026)	99236	0.53224	0.5322
47 4-Nitrophenol	109	15.434	15.419	(1.021)	7514	0.59494	0.5949
48 2,4-Dinitrotoluene	165	15.581	15.581	(1.031)	49310	1.12289	1.123
50 Diethylphthalate	149	16.076	16.084	(1.063)	93713	0.77222	0.7722
49 Fluorene	166	16.223	16.223	(1.073)	122055	0.54785	0.5479
51 4-Chlorophenyl-phenylether	204	16.215	16.215	(1.073)	54023	0.55218	0.5522
52 4-Nitroaniline	138	16.315	16.323	(1.079)	48896	1.26217	1.262
53 4,6-Dinitro-2-methylphenol	198	16.423	16.431	(0.904)	30106	1.13784	1.138
54 N-Nitrosodiphenylamine	169	16.469	16.469	(0.907)	77360	0.72920	0.7292
\$ 55 2,4,6-Tribromophenol	330	16.762	16.762	(1.109)	11100	0.61011	0.6101 (M)
56 4-Bromophenyl-phenylether	248	17.217	17.217	(0.948)	30547	0.62147	0.6215
57 Hexachlorobenzene	284	17.542	17.534	(0.966)	32362	0.68740	0.6874
58 Pentachlorophenol	266	17.921	17.906	(0.987)	1530	0.15150	0.1515
* 59 Phenanthrene-d10	188	18.161	18.161	(1.000)	674687	4.00000	
60 Phenanthrene	178	18.207	18.207	(1.003)	99392	0.56073	0.5607
61 Anthracene	178	18.300	18.300	(1.008)	104088	0.55105	0.5510
62 Carbazole	167	18.641	18.641	(1.026)	116688	0.66961	0.6696
63 Di-n-butylphthalate	149	19.445	19.445	(1.071)	143637	0.54886	0.5489
64 Fluoranthene	202	20.606	20.606	(0.887)	115349	0.72060	0.7206
65 Pyrene	202	21.039	21.031	(0.905)	86408	0.61742	0.6174
\$ 66 Terphenyl-d14	244	21.326	21.326	(0.918)	72636	0.91883	0.9188
67 Butylbenzylphthalate	149	22.262	22.262	(0.958)	50027	1.09317	1.093
68 Benzo(a)anthracene	228	23.215	23.215	(0.999)	55661	0.57985	0.5799
* 69 Chrysene-d12	240	23.238	23.246	(1.000)	226532	4.00000	
70 3,3'-Dichlorobenzidine	252	23.168	23.176	(0.997)	64678	2.06772	2.068
71 Chrysene	228	23.285	23.292	(1.002)	27937	0.43848	0.4385
72 bis(2-Ethylhexyl)phthalate	149	23.308	23.308	(0.959)	25525	0.87745	0.8774
* 134 Di-n-octylphthalate-d4	153	24.299	24.306	(1.000)	263183	4.00000	
73 Di-n-octylphthalate	149	24.314	24.314	(1.001)	38417	0.64222	0.6422
74 Benzo(b)fluoranthene	252	25.112	25.112	(0.970)	28073	0.53368	0.5337
75 Benzo(k)fluoranthene	252	25.150	25.158	(0.972)	24319	0.48078	0.4808
76 Benzo(a)pyrene	252	25.762	25.762	(0.996)	21088	0.48982	0.4898
* 77 Perylene-d12	264	25.878	25.878	(1.000)	116151	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.536	28.544	(1.103)	24919	0.54210	0.5421
79 Dibenzo(a,h)anthracene	278	28.560	28.560	(1.104)	20218	0.57454	0.5745
80 Benzo(g,h,i)perylene	276	29.321	29.329	(1.133)	20241	0.55085	0.5508
90 N-Nitrosodimethylamine	74	4.643	4.628	(0.515)	48643	0.79931	0.7993
91 Aniline	93	8.475	8.467	(0.940)	110186	0.91610	0.9161
93 Benzidine	184	20.846	20.846	(0.897)	138557	4.14596	4.146
103 Pyridine	79	4.674	4.651	(0.518)	72496	0.42024	0.4202
105 1-methylnaphthalene	142	13.159	13.151	(1.145)	87957	0.45505	0.4550
111 Azobenzene (1,2-DP-Hydrazine)	77	16.539	16.539	(1.094)	80514	0.49973	0.4997

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252		25.150	25.112	(0.972)	49518	1.00961	1.010
120 2,3,4,6-Tetrachlorophenol	232		15.859	15.859	(1.049)	10331	0.29005	0.2900

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071503.D Calibration Time: 12:41
 Lab Smp Id: SKG0154-LCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	254722	26.39
27 Naphthalene-d8	649654	324827	1299308	773487	19.06
42 Acenaphthene-d10	370460	185230	740920	403405	8.89
59 Phenanthrene-d10	647298	323649	1294596	674687	4.23
69 Chrysene-d12	221116	110558	442232	226532	2.45
134 Di-n-octylphthala	319144	159572	638288	263183	-17.53
77 Perylene-d12	105234	52617	210468	116151	10.37

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.02	0.17
27 Naphthalene-d8	11.49	10.99	11.99	11.50	0.07
42 Acenaphthene-d10	15.11	14.61	15.61	15.12	0.05
59 Phenanthrene-d10	18.16	17.66	18.66	18.16	-0.00
69 Chrysene-d12	23.25	22.75	23.75	23.24	-0.03
134 Di-n-octylphthala	24.31	23.81	24.81	24.30	-0.03
77 Perylene-d12	25.88	25.38	26.38	25.88	0.00

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

REVIEW SUMMARY FOR FILE - NT1022071503.D

Lab ID: SKG0154-LCV1
nt10.i, ABN.m, 15-JUL-2022 13:28

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.955	0.963	-0.0080	Benzoic acid

RRT check based on Ccal File: NT1022071502.D

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

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

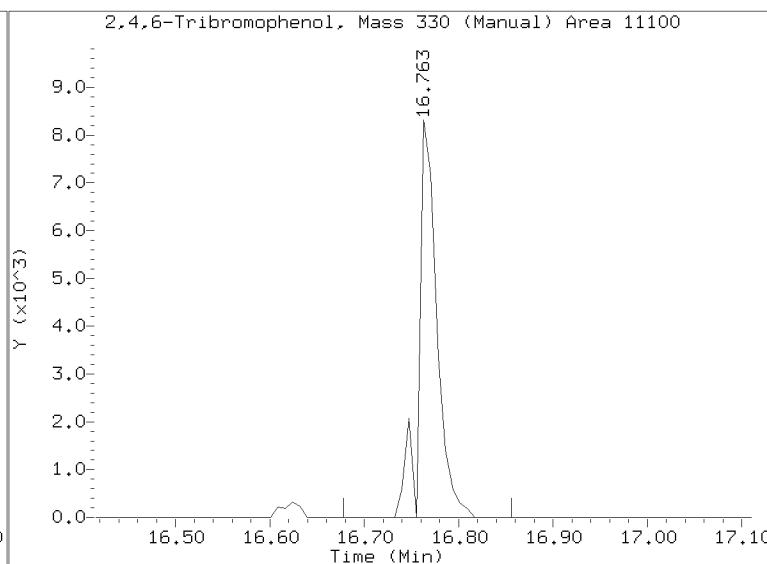
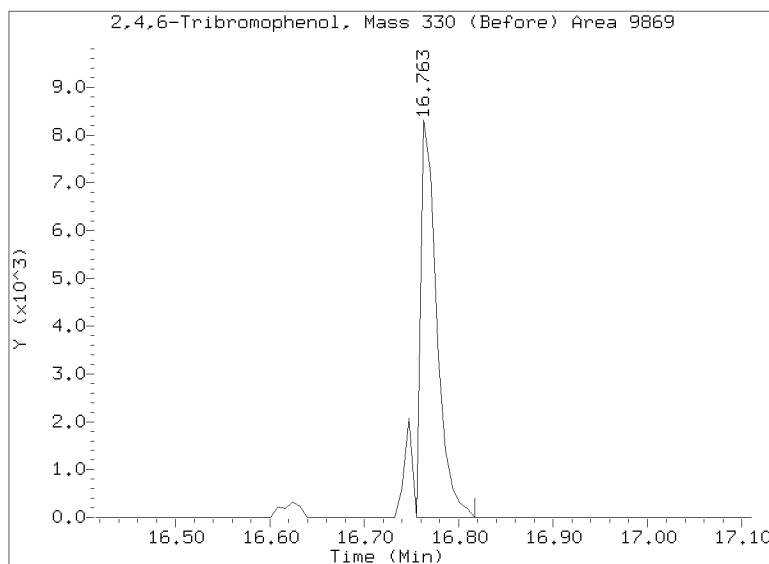
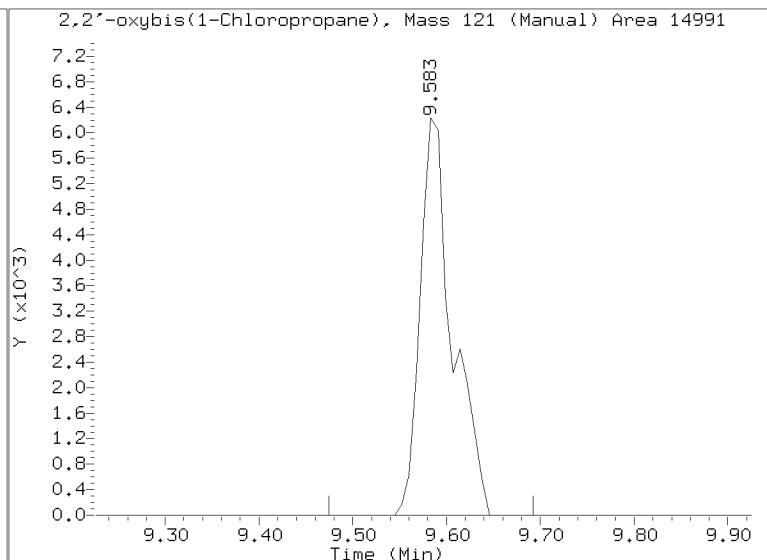
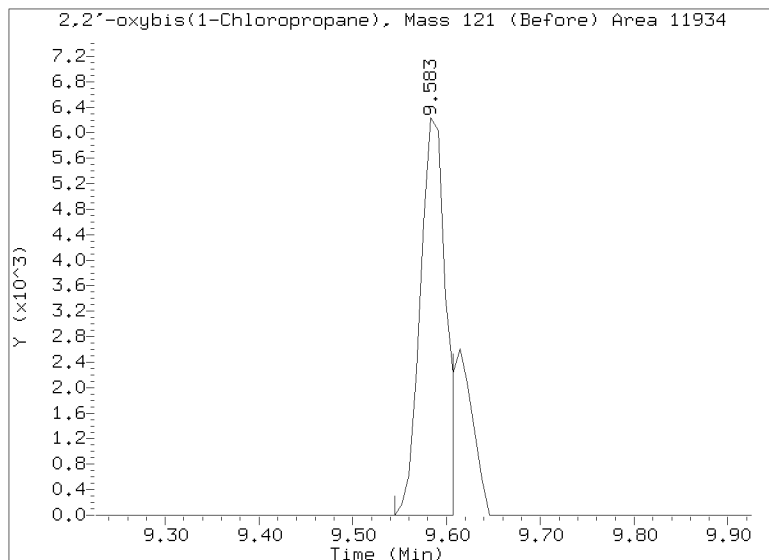
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071503.D

Injection Date: 15-JUL-2022 13:28

Lab ID:SKG0154-LCV1 Client ID:

Report Date: 07/16/2022 09:01





**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071504.D

Calibration Date: 06/23/2022

Sequence: SKG0154

Injection Date: 07/15/22

Lab Sample ID: SKG0154-LCV2

Injection Time: 14:07

Sequence Name: LCV 0.2

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Naphthalene	A	0.20000	0.2	1.0237250	0.9451244		-7.7	+/-50
2-Methylnaphthalene	A	0.20000	0.2	1.0174370	0.8939890		-12.1	+/-50
Acenaphthene	A	0.20000	0.2	1.1633080	1.0615930		-8.7	+/-50
Pentachlorophenol	A	0.40000	0.0	0.0462824				+/-50
Phenanthrene	A	0.20000	0.2	1.0508770	0.9614928		-8.5	+/-50
Fluoranthene	A	0.20000	0.2	2.5859780	2.6168460		-7.1	+/-50
Benzo(a)anthracene	A	0.20000	0.2	1.6949770	1.6959450		0.06	+/-50
Chrysene	A	0.20000	0.2	1.1695310	1.1097840		-1.1	+/-50
Benzo(b)fluoranthene	A	0.20000	0.2	1.8115340	1.6129260		-11.0	+/-50
Benzo(k)fluoranthene	A	0.20000	0.2	1.7419410	1.8025880		3.5	+/-50
Benzo(a)pyrene	A	0.20000	0.2	1.4826420	1.4797460		-0.2	+/-50
Indeno(1,2,3-cd)pyrene	A	0.20000	0.2	1.5830350	1.2860200		-18.8	+/-50
Dibenzo(a,h)anthracene	A	0.20000	0.2	1.2118700	1.0551350		-12.9	+/-50
1-Methylnaphthalene	A	0.20000	0.2	0.9995882	0.9175704		-8.2	+/-50
2-Fluorophenol	A	0.30000	0.285	1.4606150	1.3874170		-5.0	+/-50
Phenol-d5	A	0.30000	0.231	2.1672350	1.6690480		-23.0	+/-50
2-Chlorophenol-d4	A	0.30000	0.293	1.4882780	1.4520470		-2.4	+/-50
1,2-Dichlorobenzene-d4	A	0.20000	0.196	0.9170783	0.9006224		-1.8	+/-50
Nitrobenzene-d5	A	0.20000	0.181	0.4256249	0.3852474		-9.5	+/-50
2-Fluorobiphenyl	A	0.20000	0.209	1.8101110	1.8938450		4.6	+/-50
2,4,6-Tribromophenol	A	0.30000	0.177	0.1582114	0.1063770		-41.0	+/-50
p-Terphenyl-d14	A	0.20000	0.270	1.3958840	1.8825950		34.9	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt10,1\20220715,6\NT1022071504.D

Date: 15-JUL-2022 14:07

Client ID:

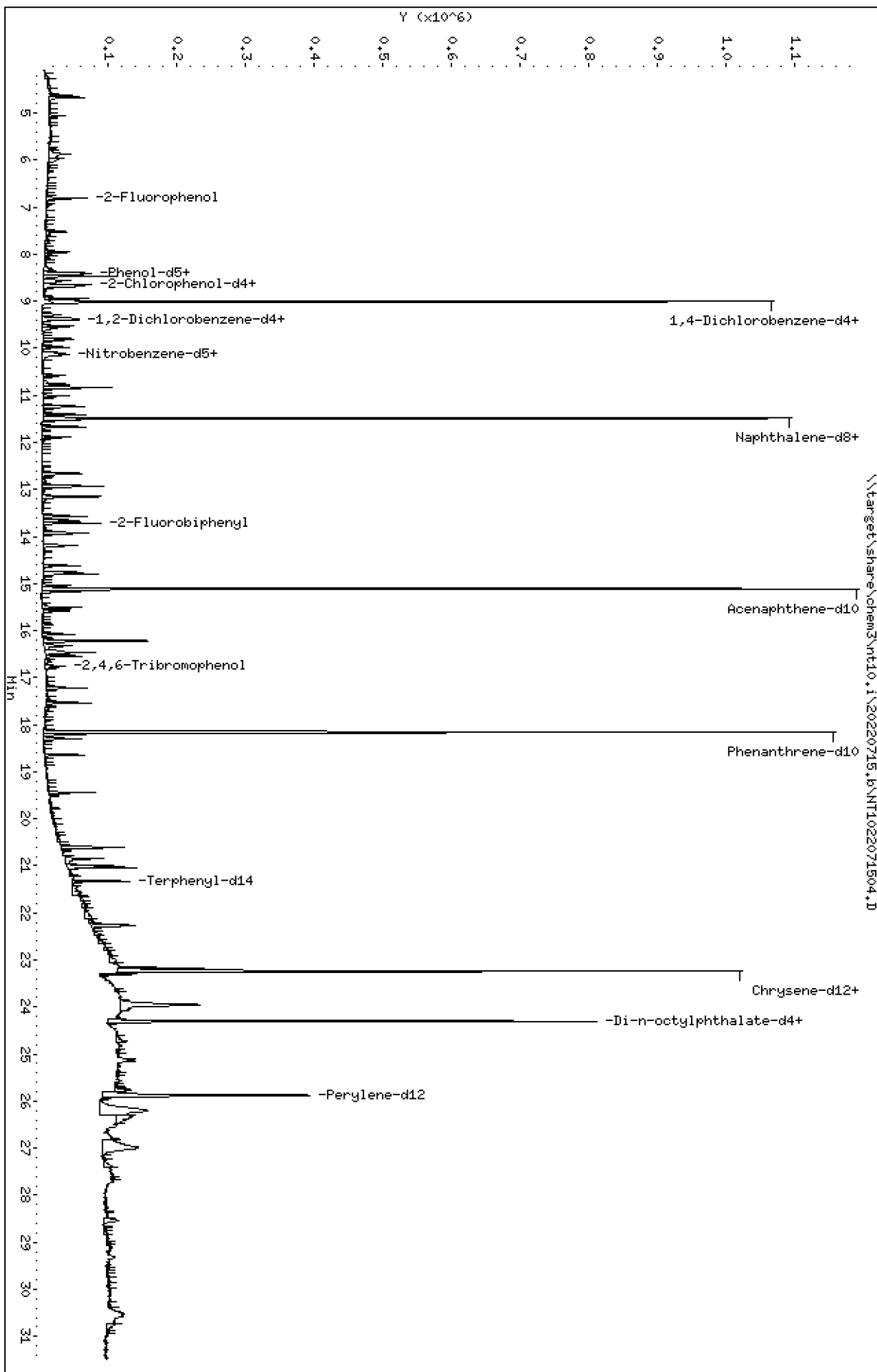
Sample Info: SKC0154-LCW2

Column phase: ZB-5msi

Instrument: nt10,1

Operator: VTS

Column diameter: 0.25



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

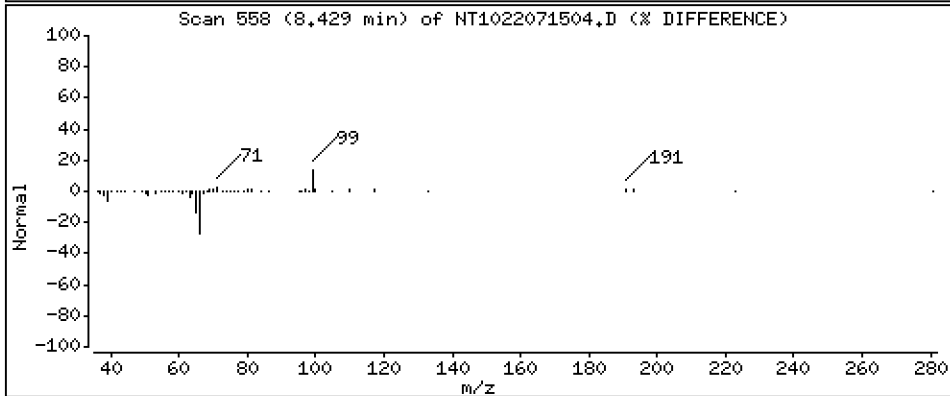
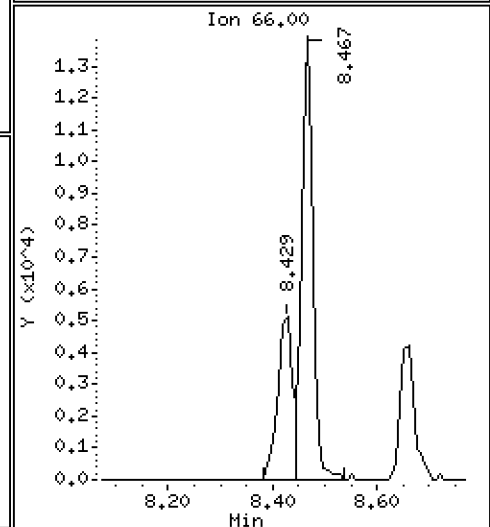
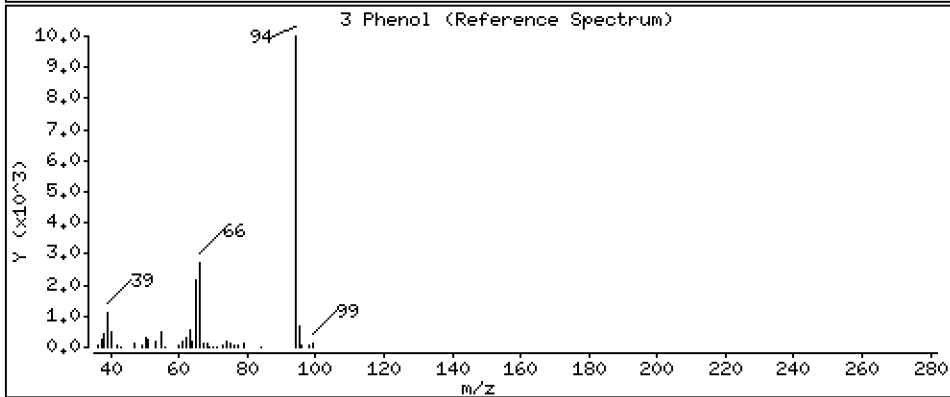
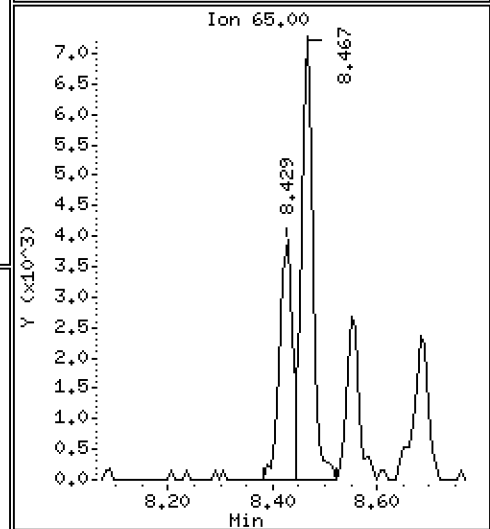
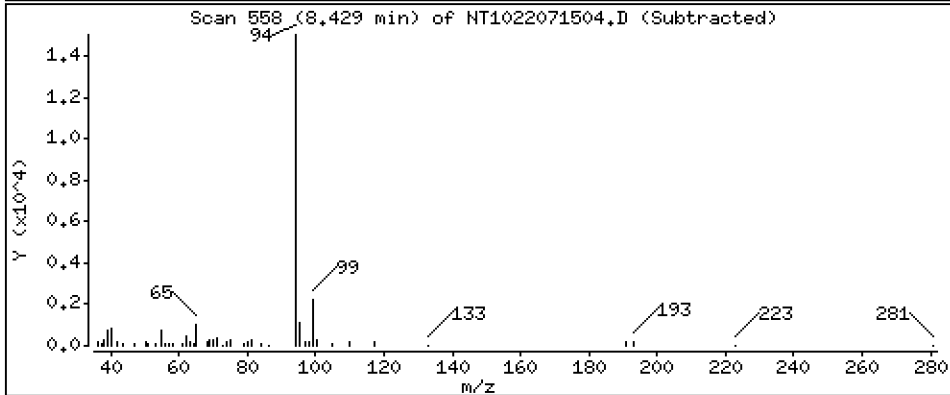
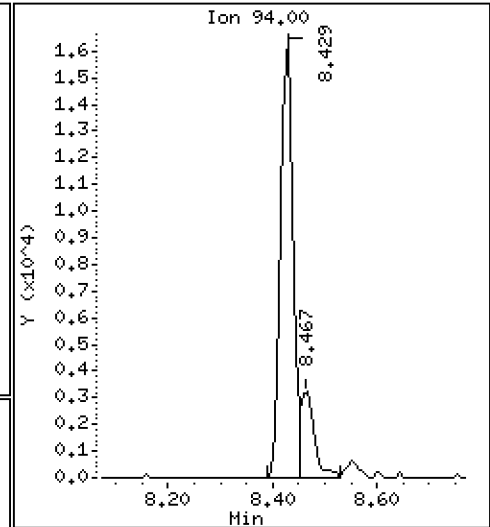
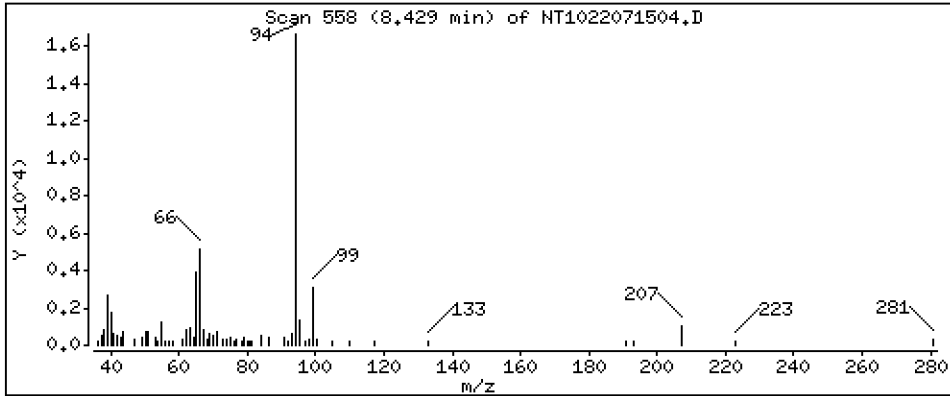
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,1779 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

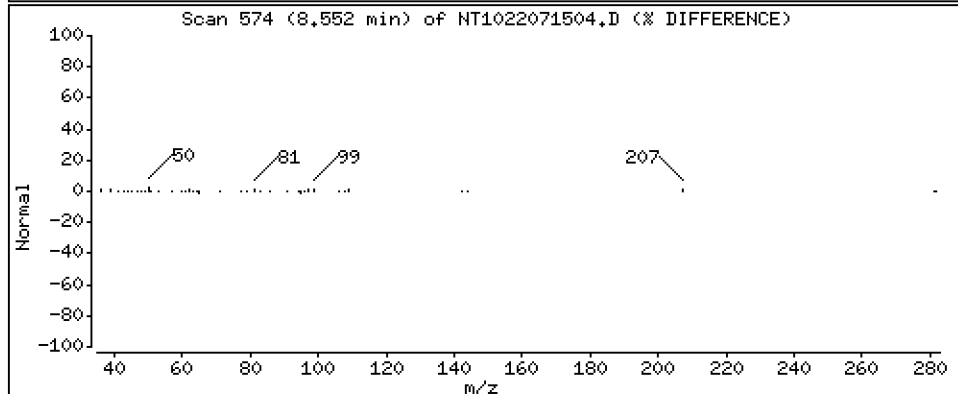
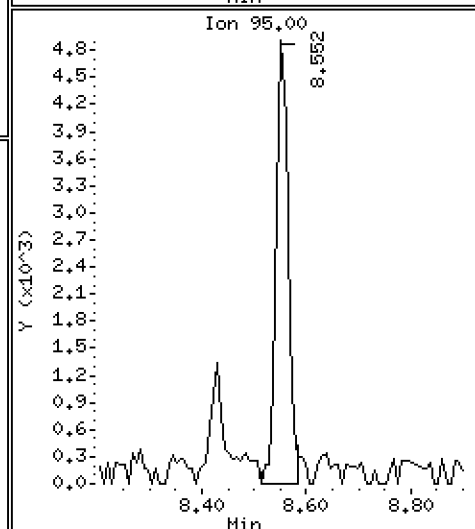
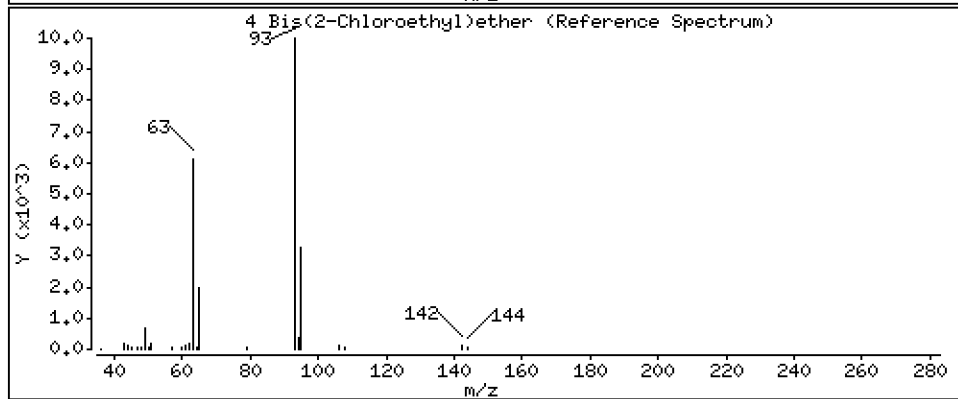
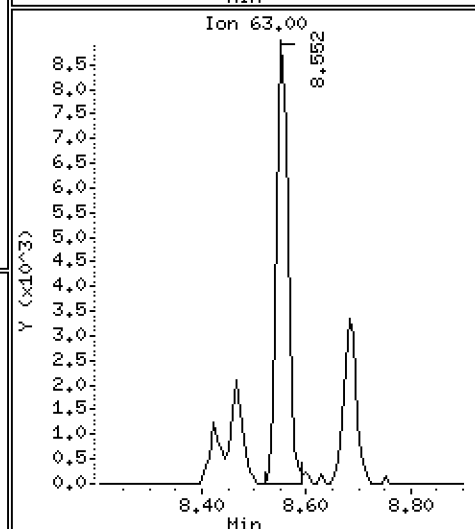
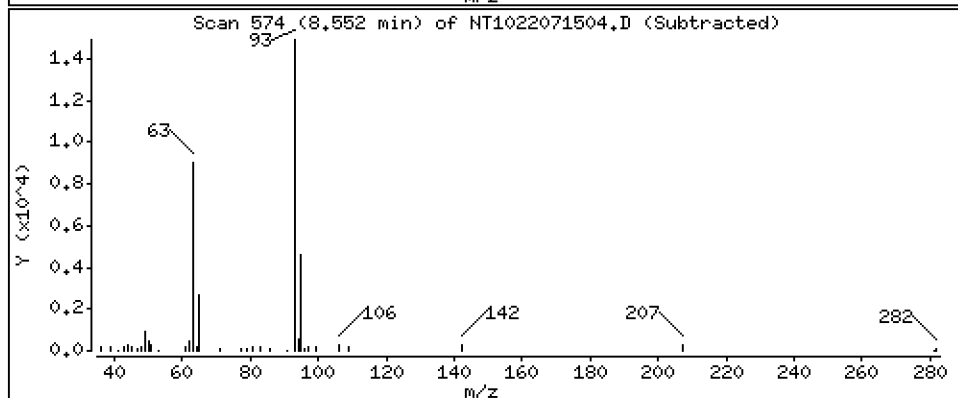
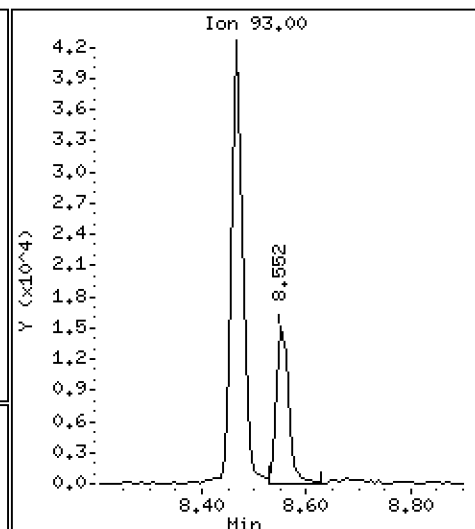
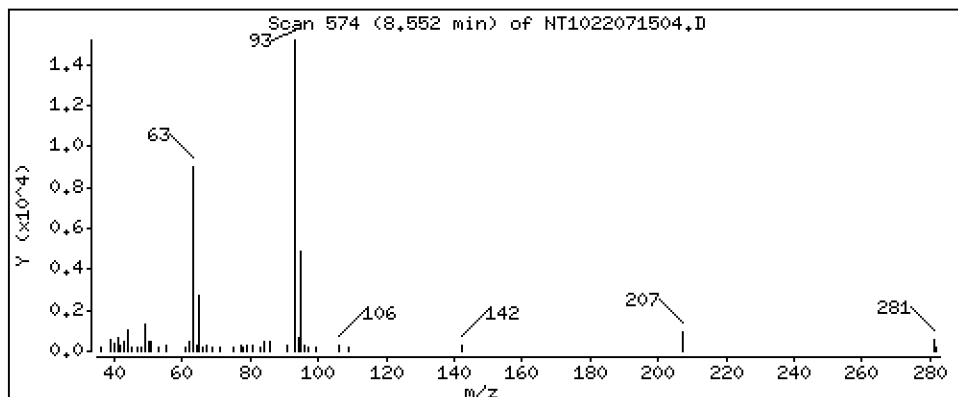
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2224 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

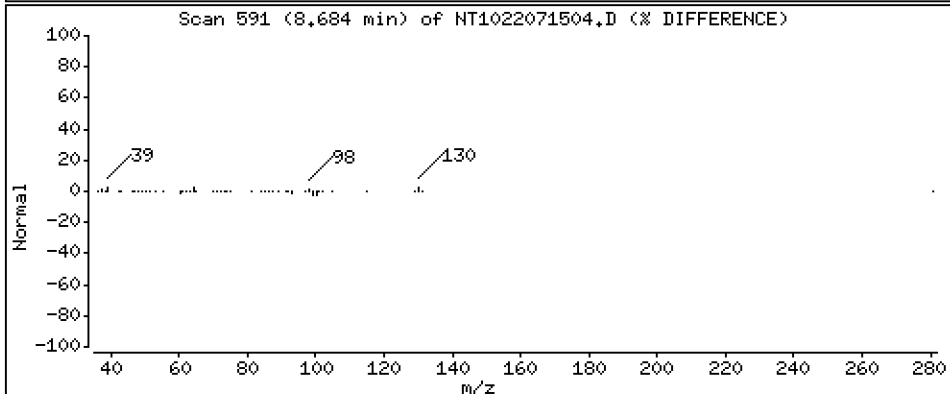
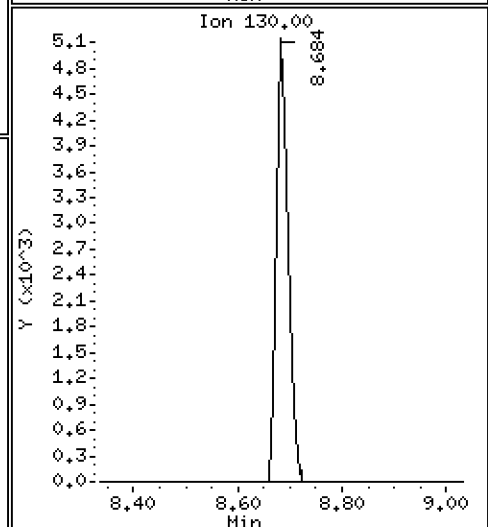
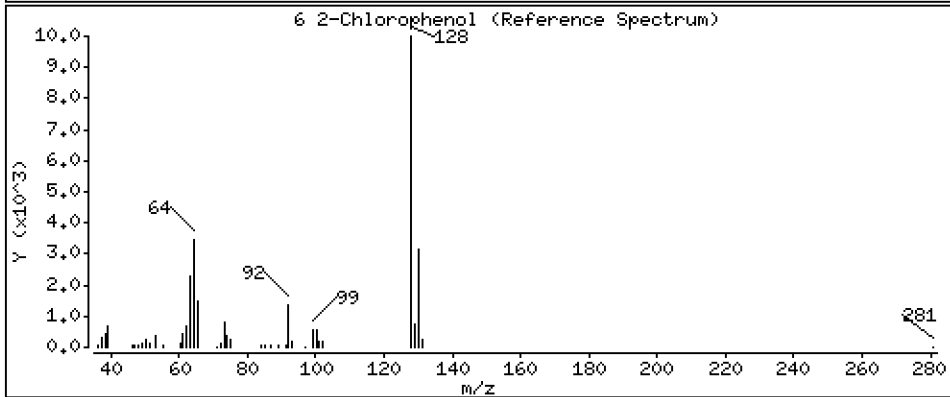
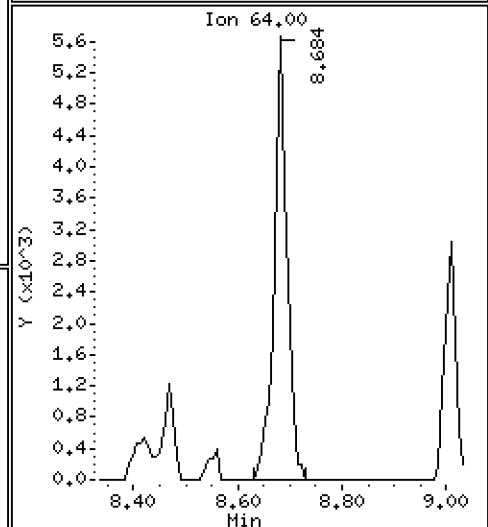
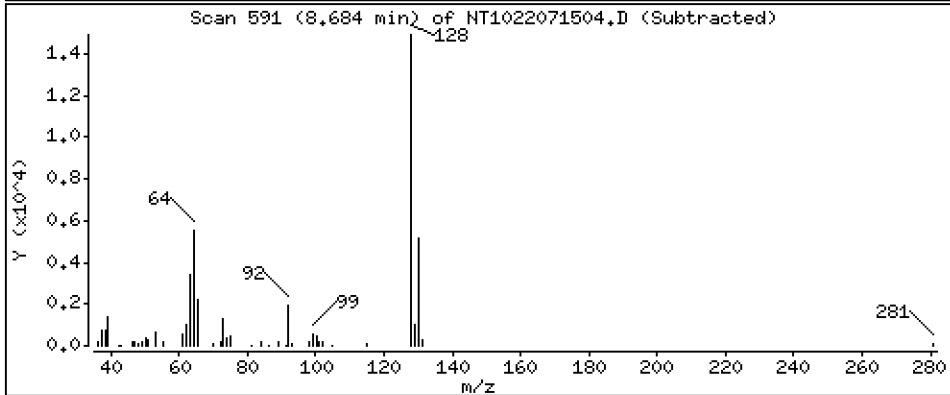
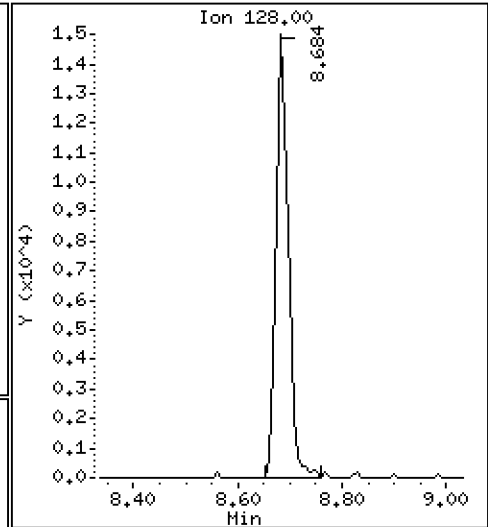
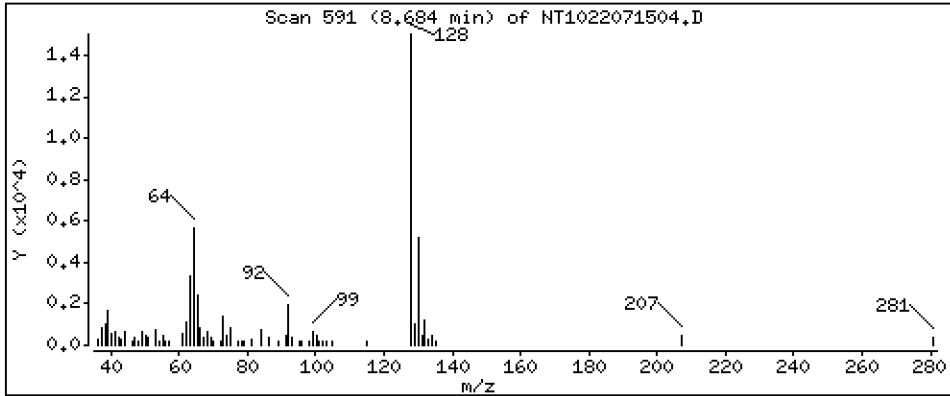
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,2045 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

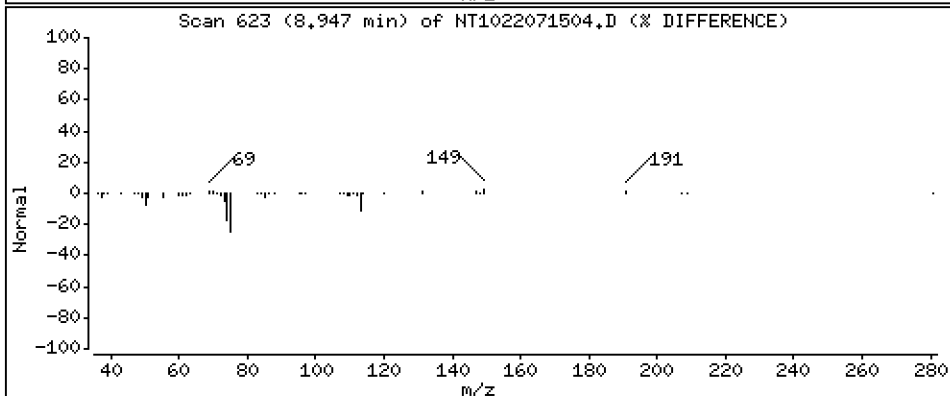
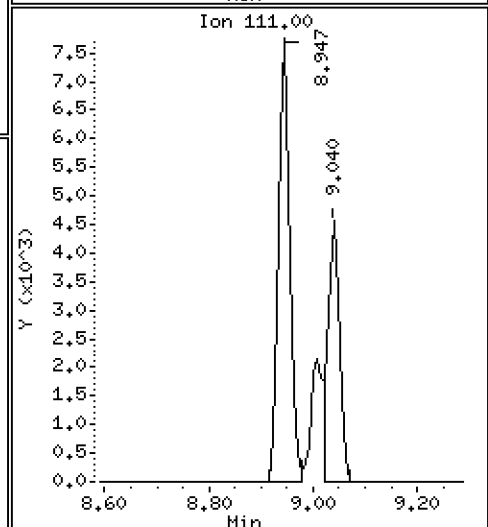
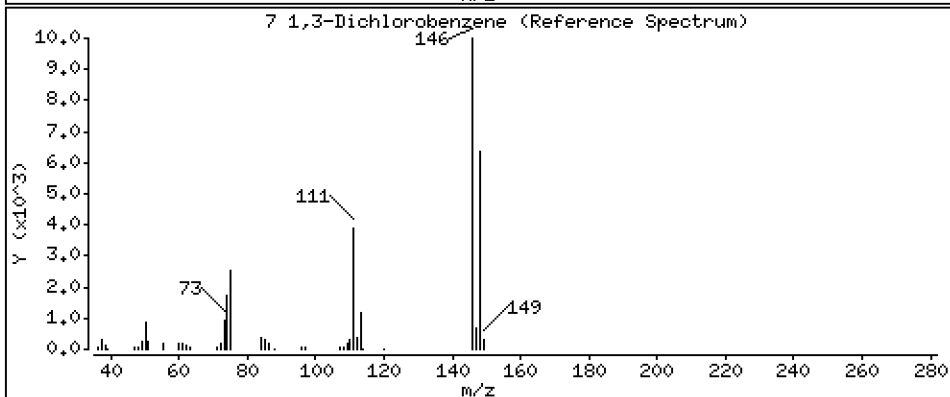
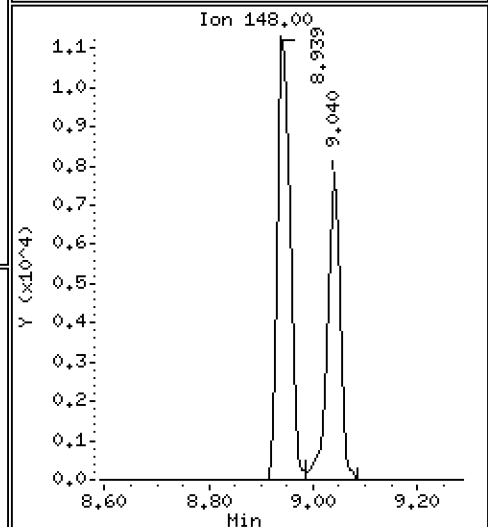
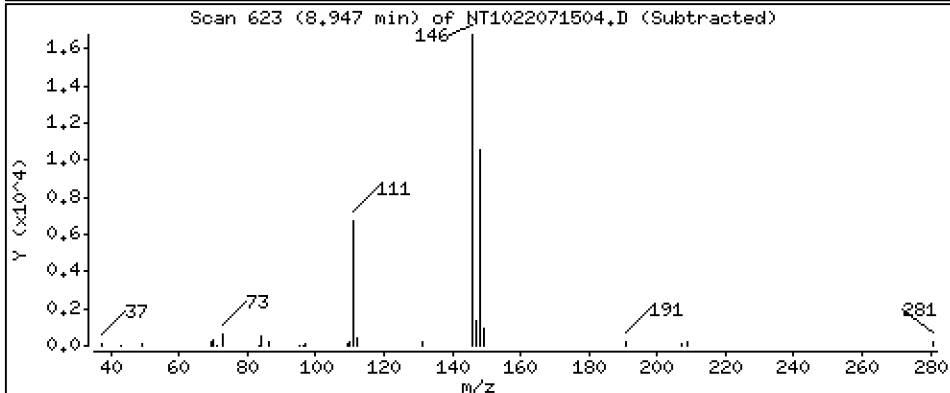
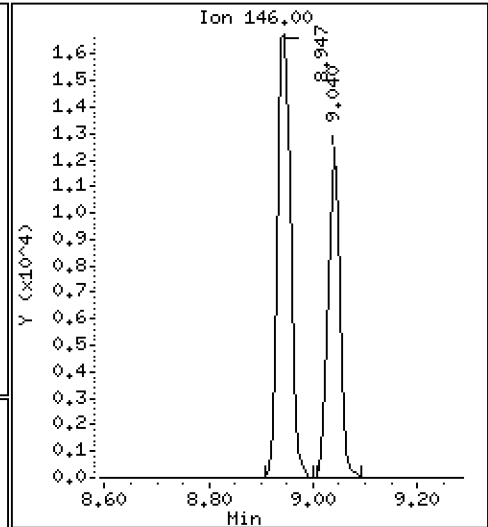
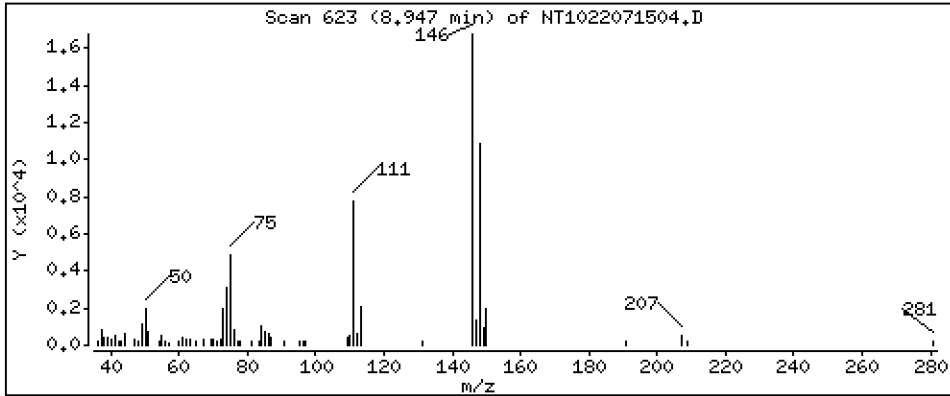
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,2239 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

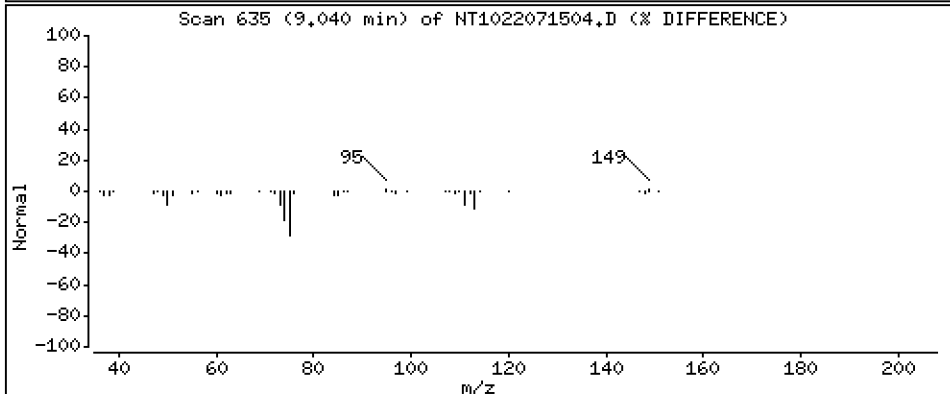
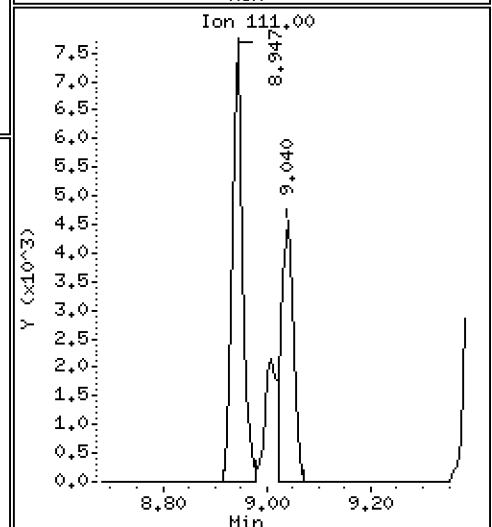
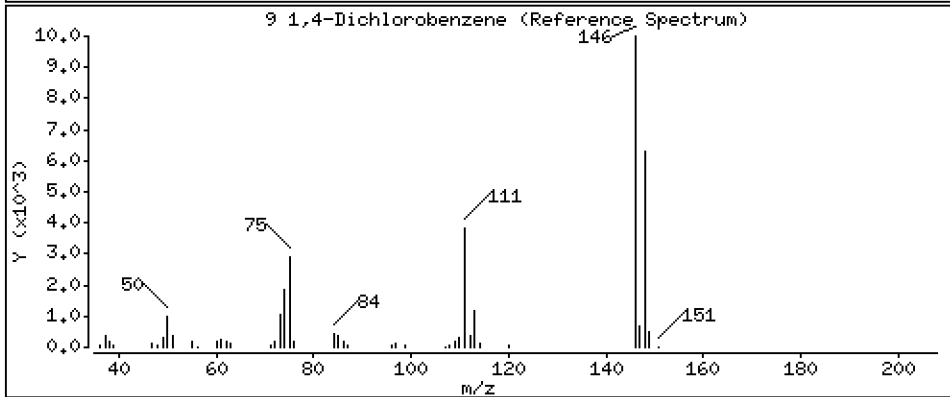
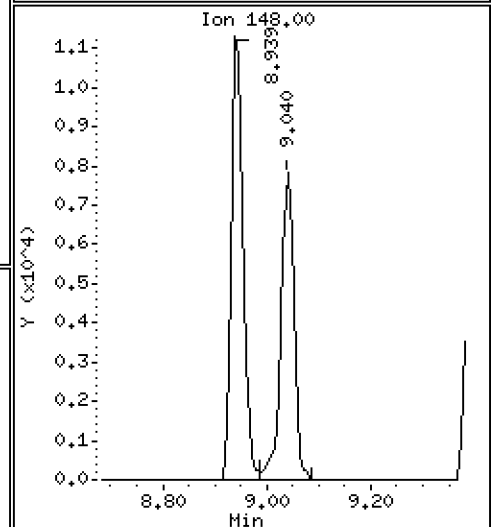
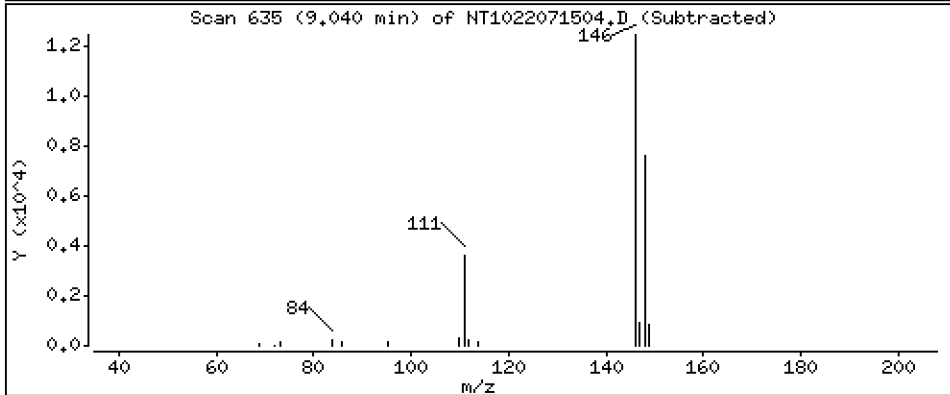
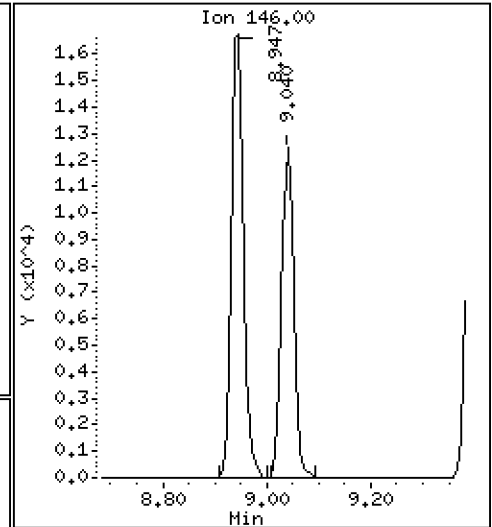
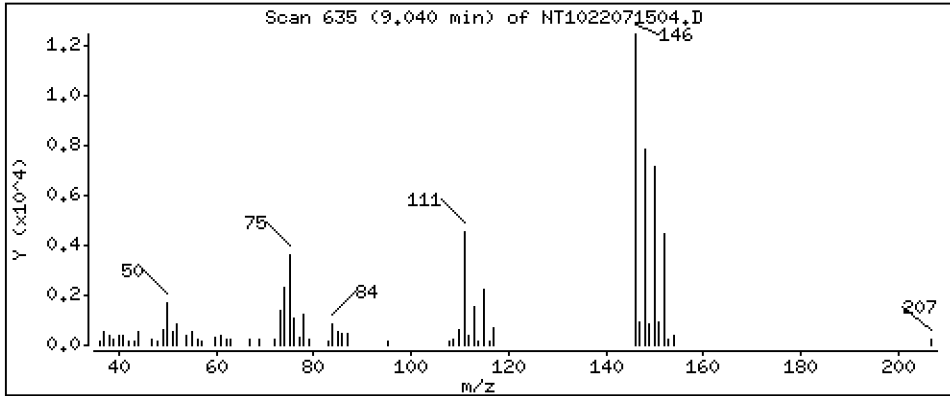
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,1954 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

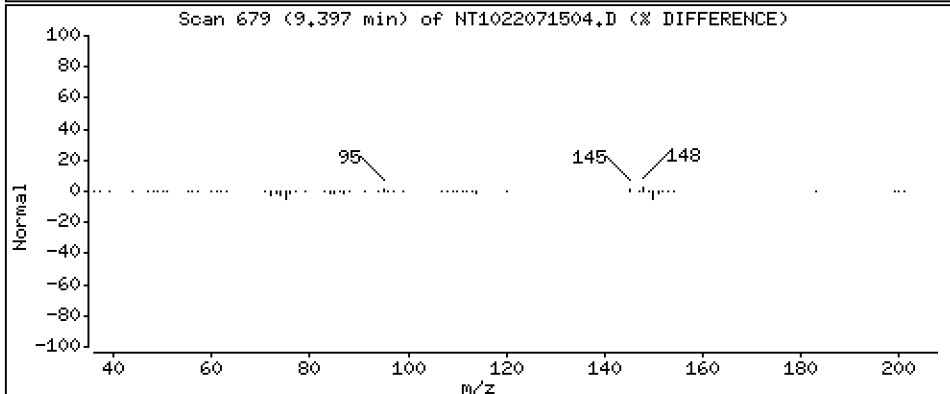
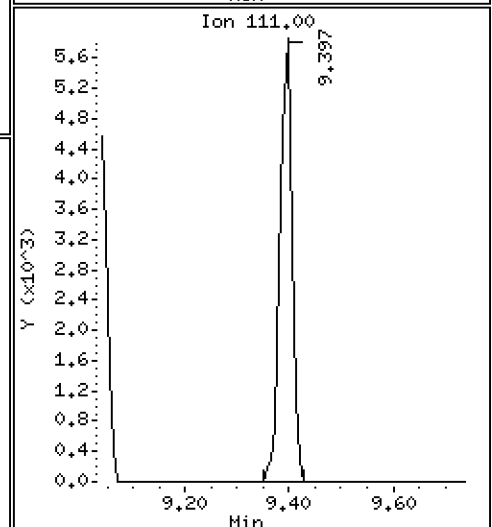
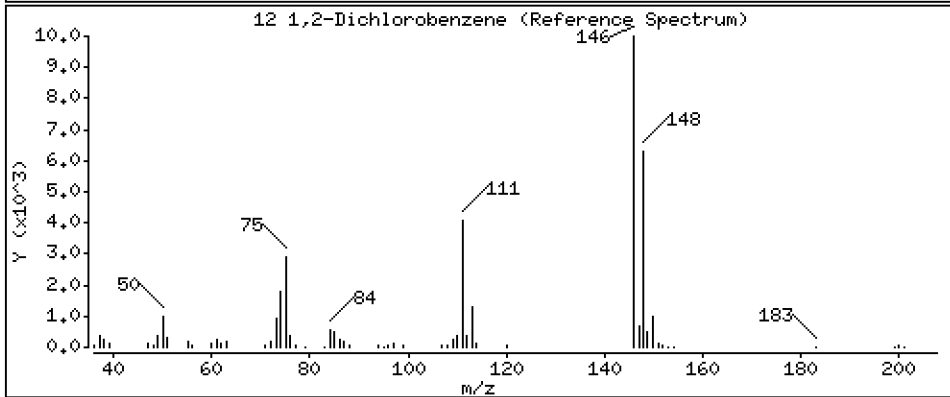
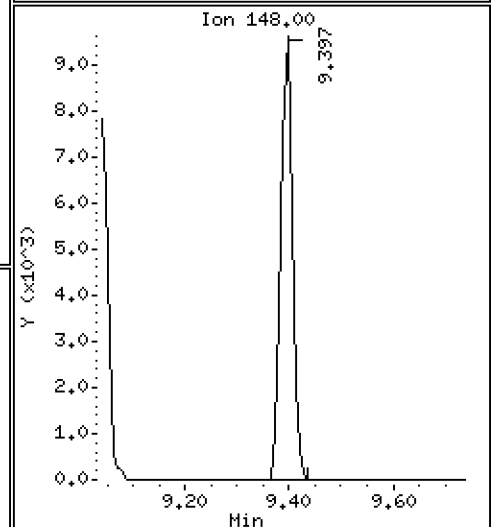
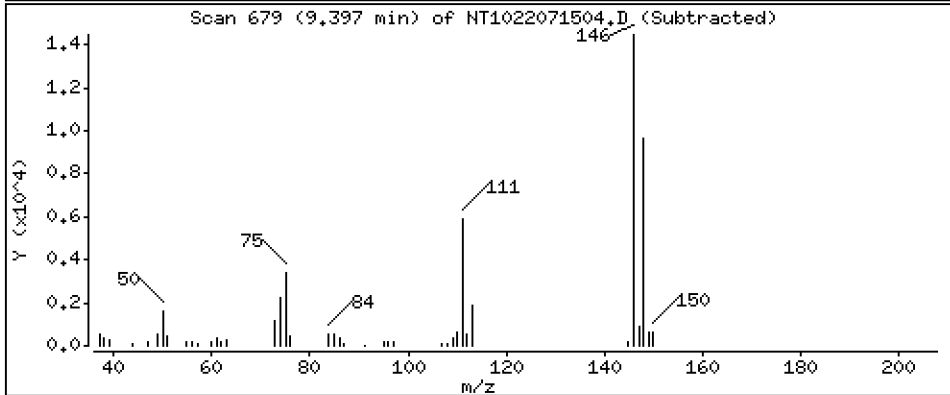
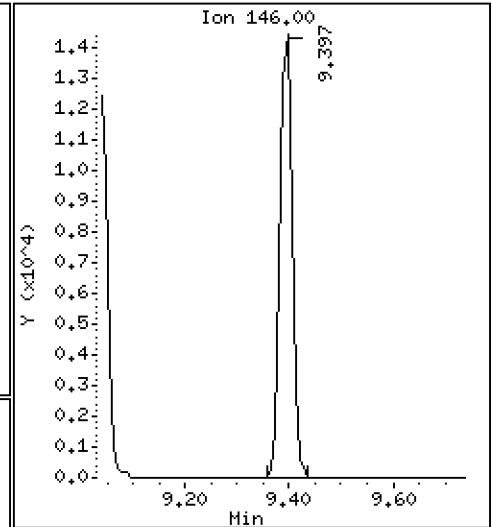
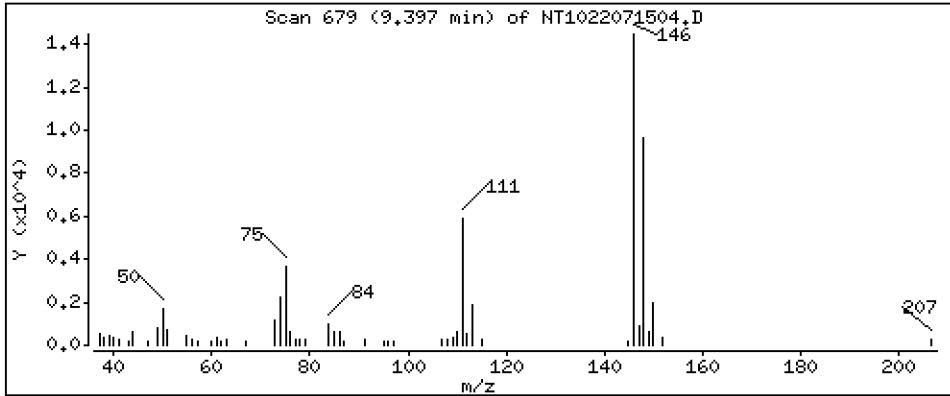
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2151 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

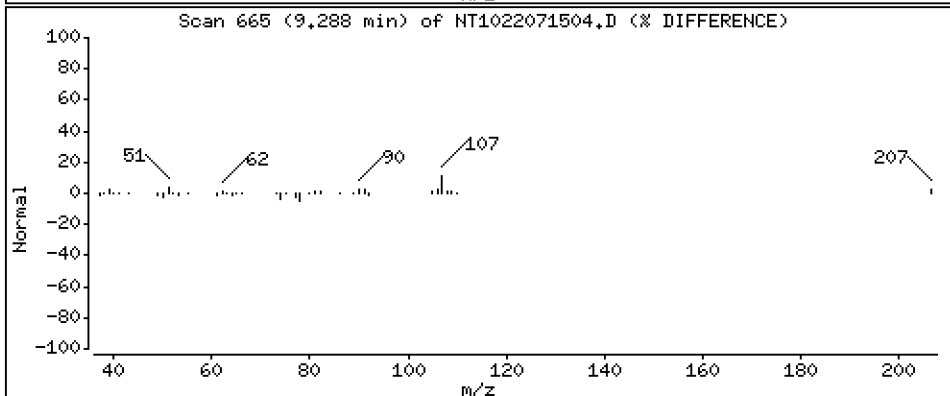
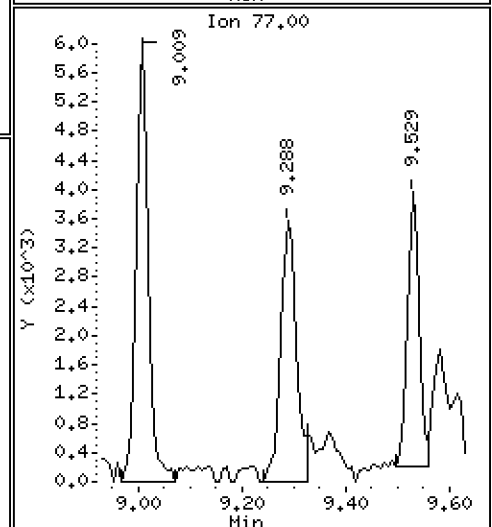
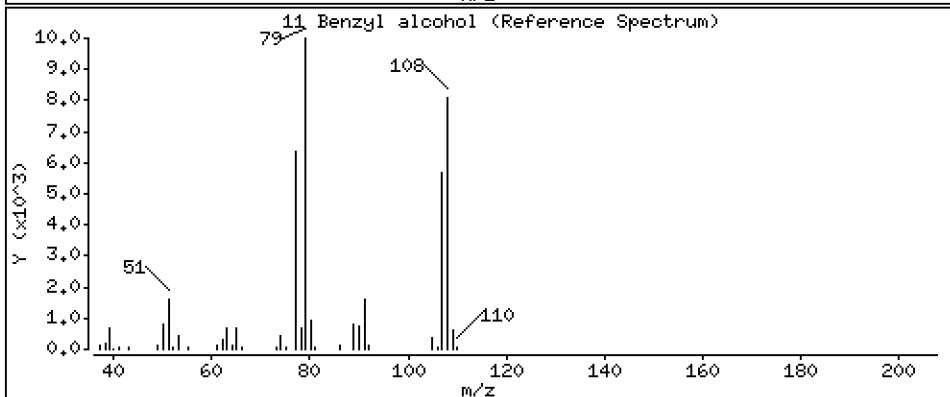
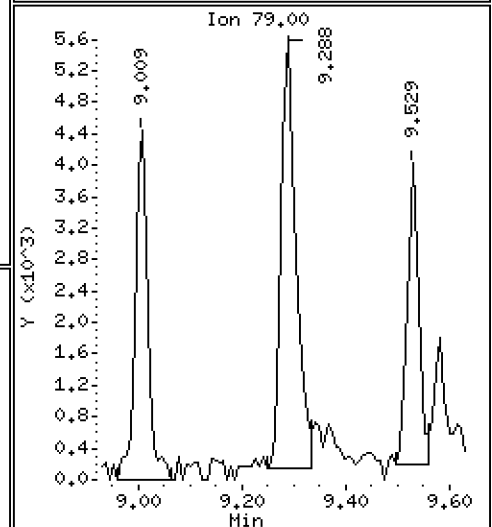
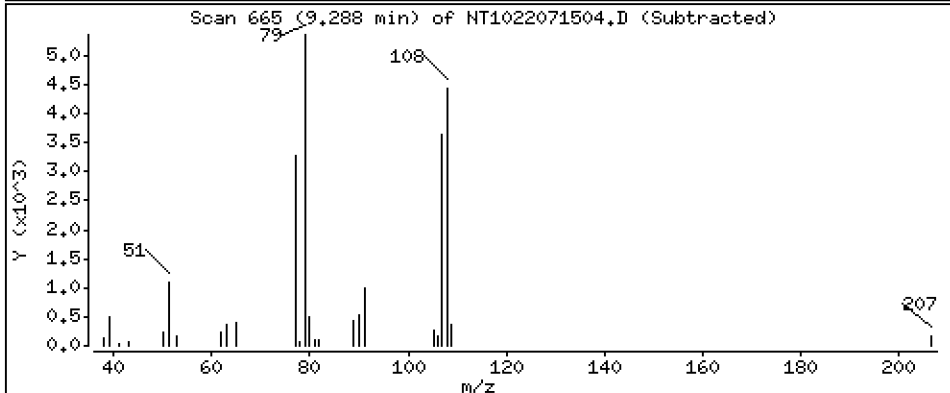
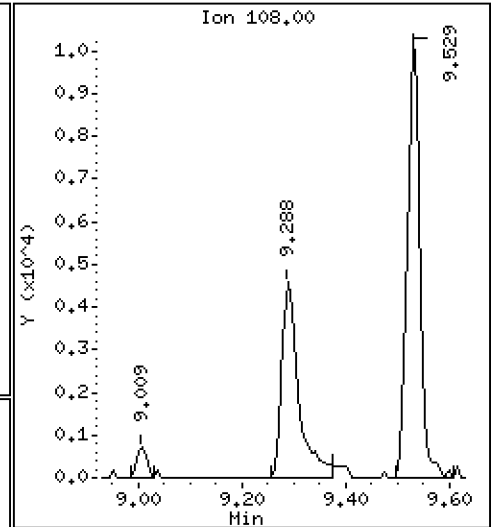
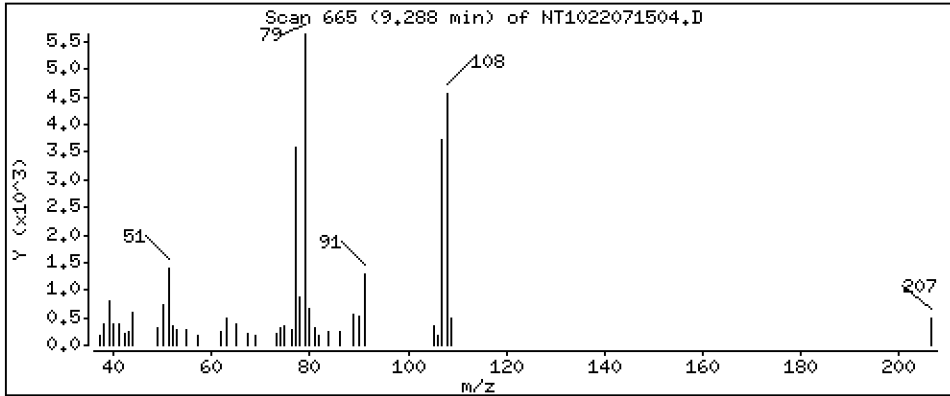
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1730 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

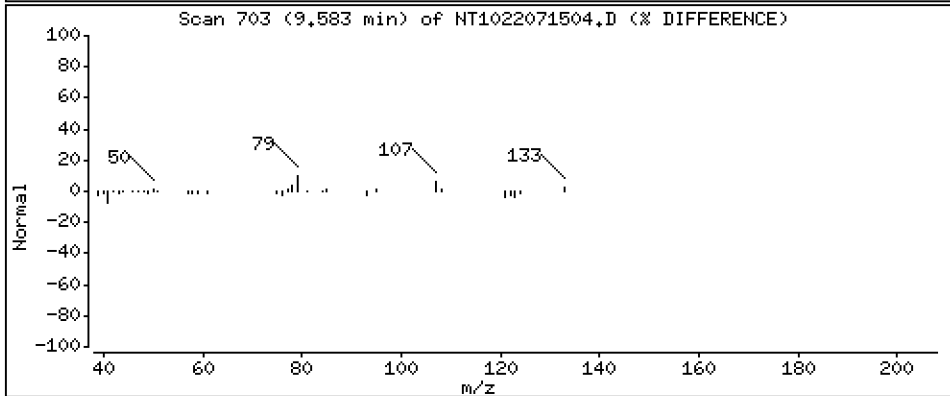
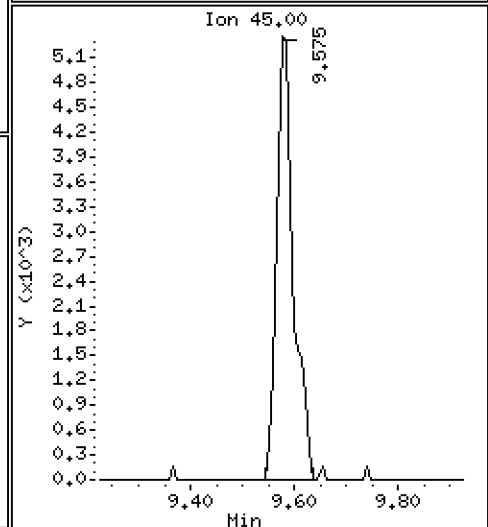
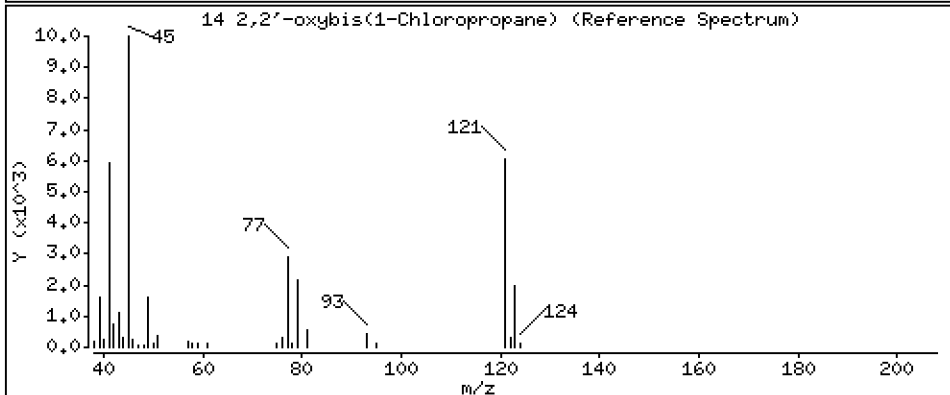
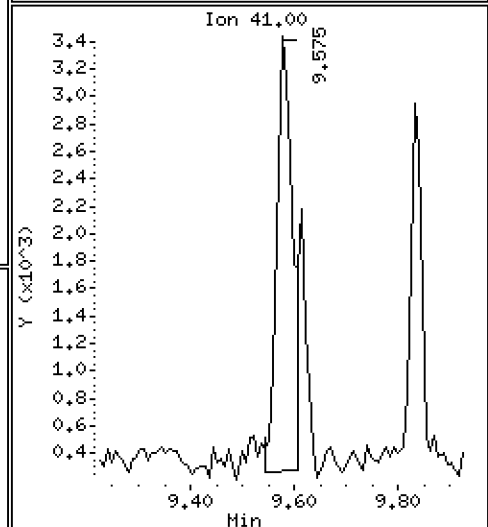
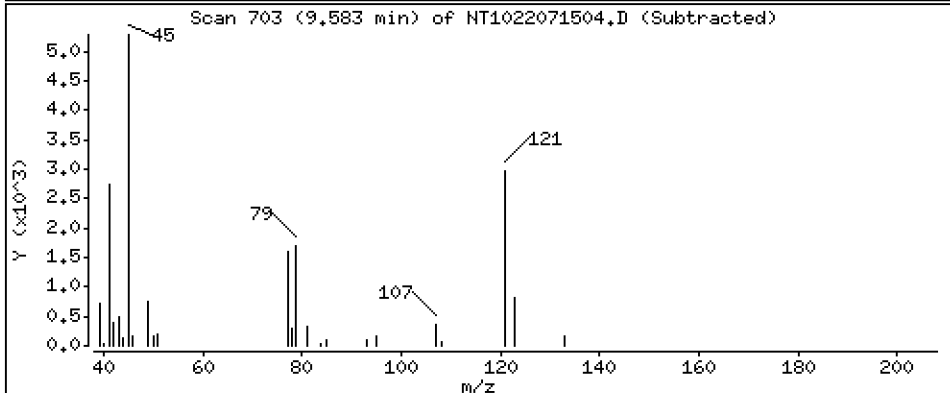
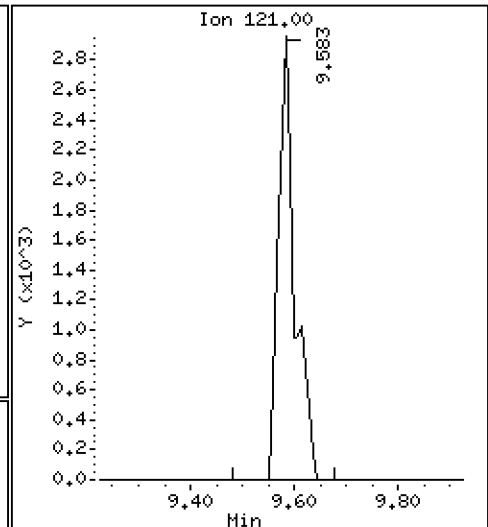
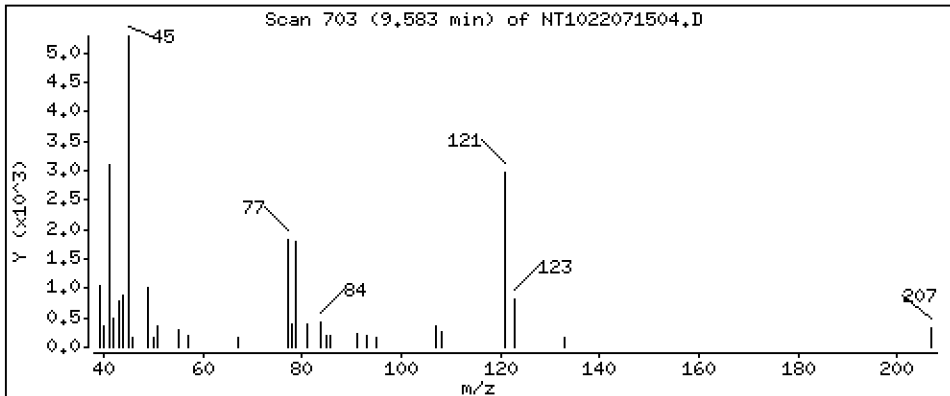
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 0.2585 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

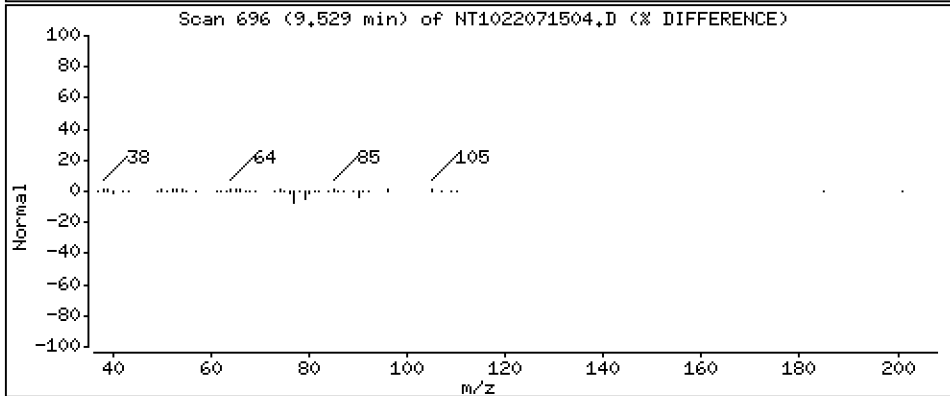
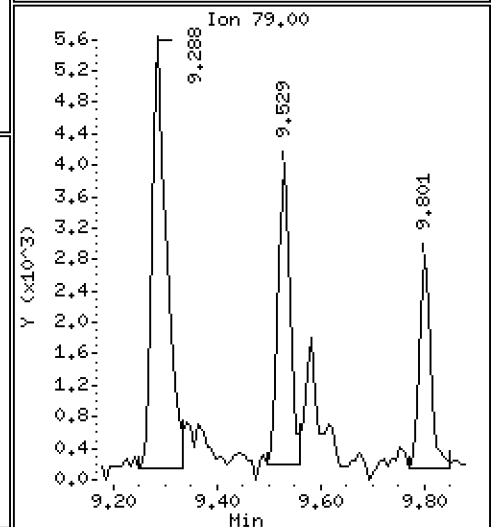
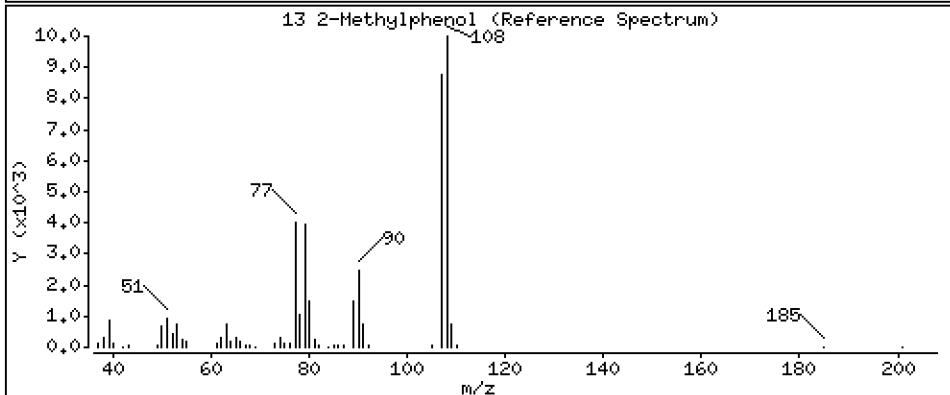
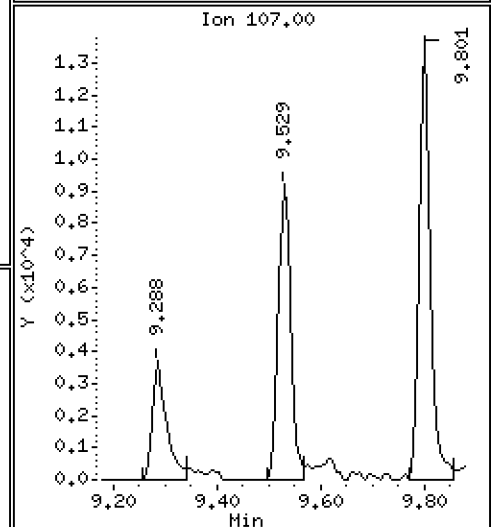
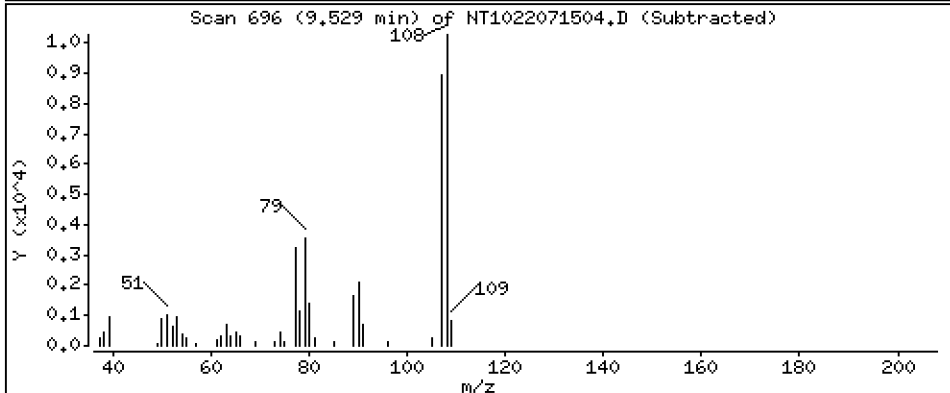
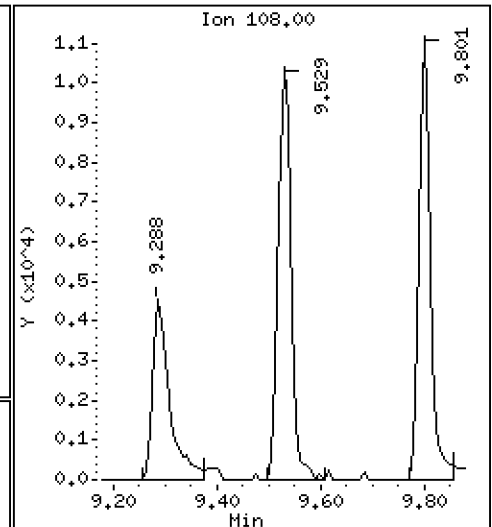
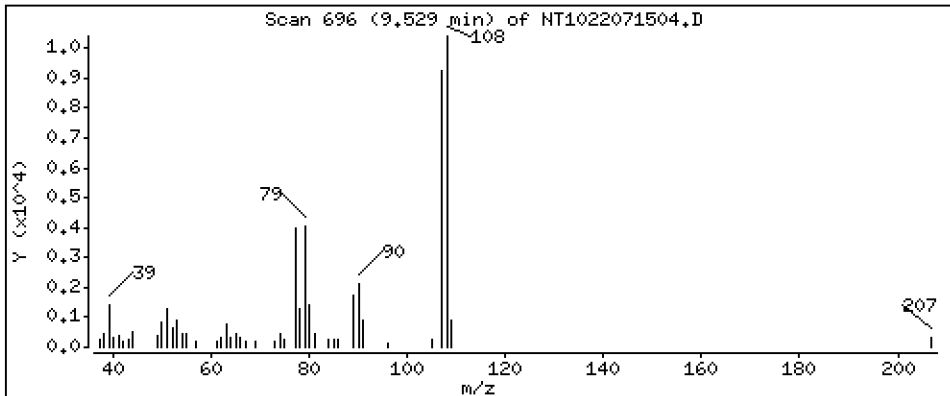
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1910 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

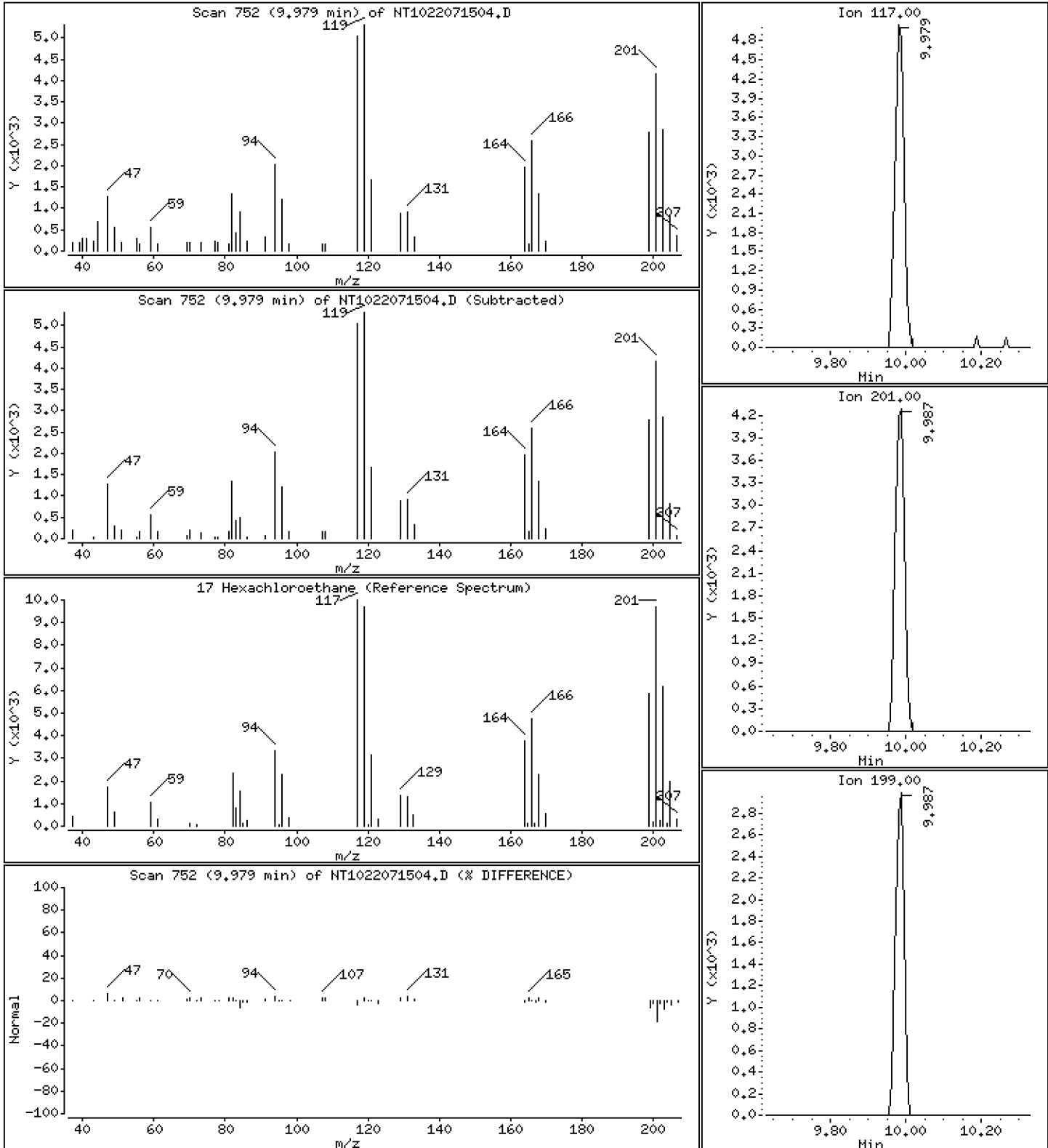
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1817 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

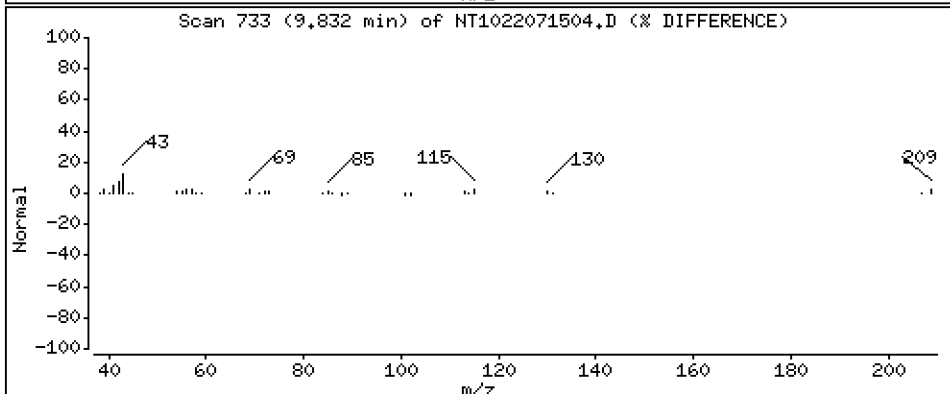
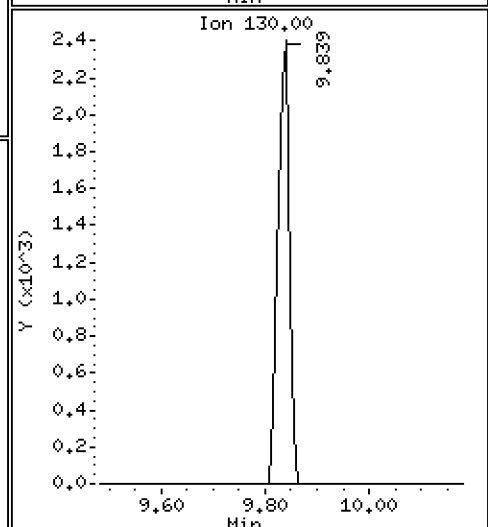
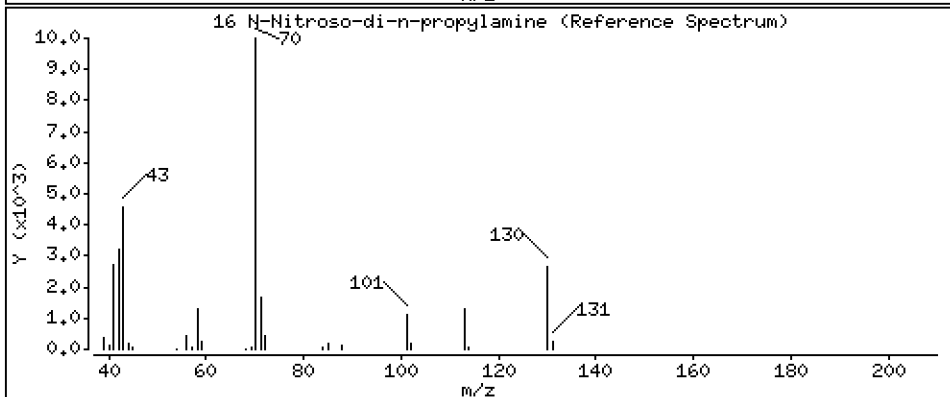
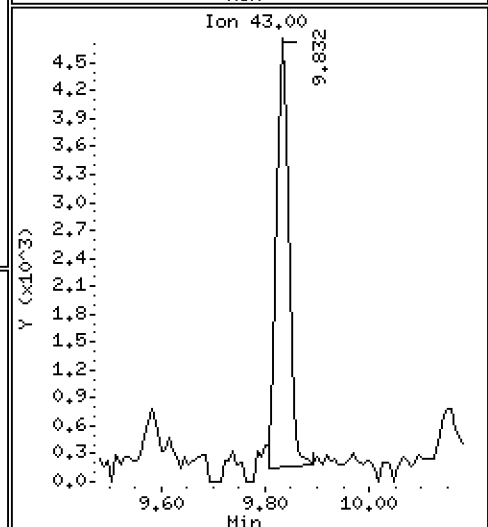
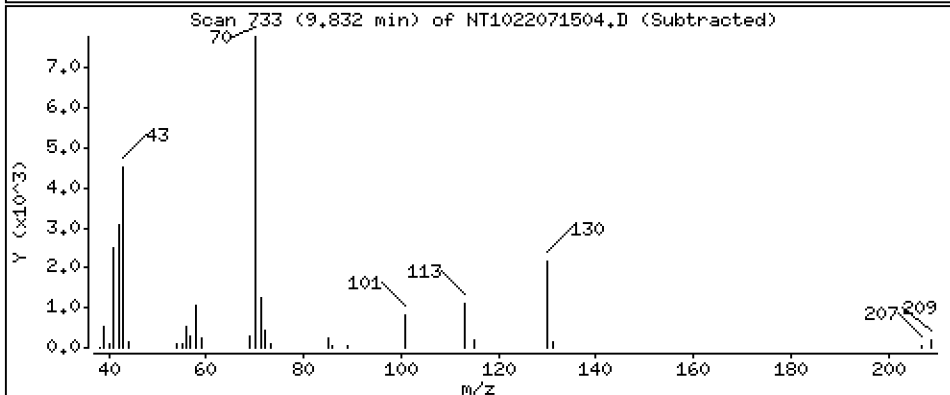
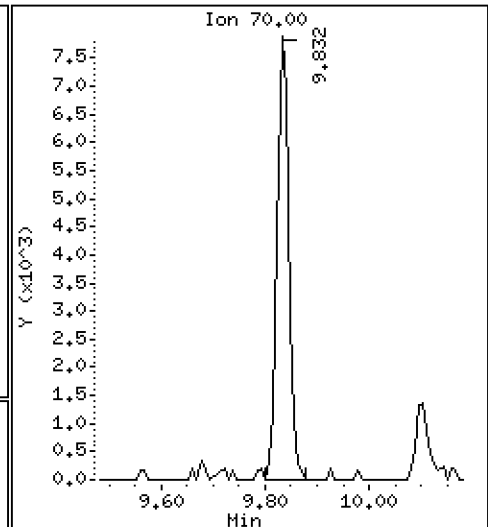
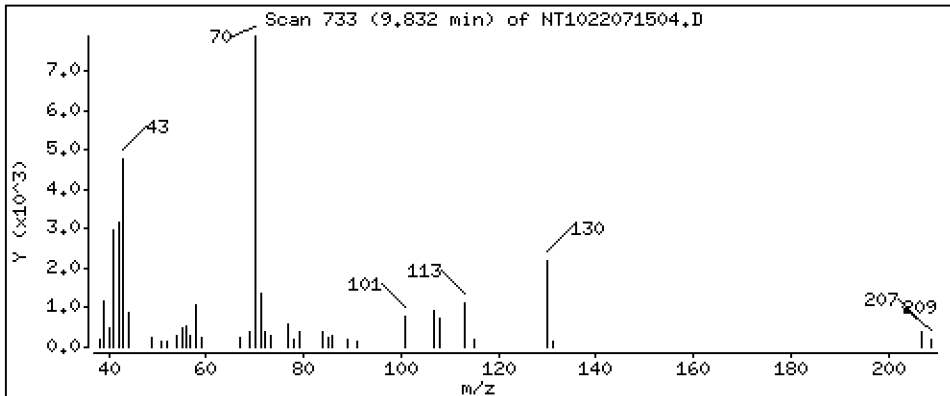
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.1870 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

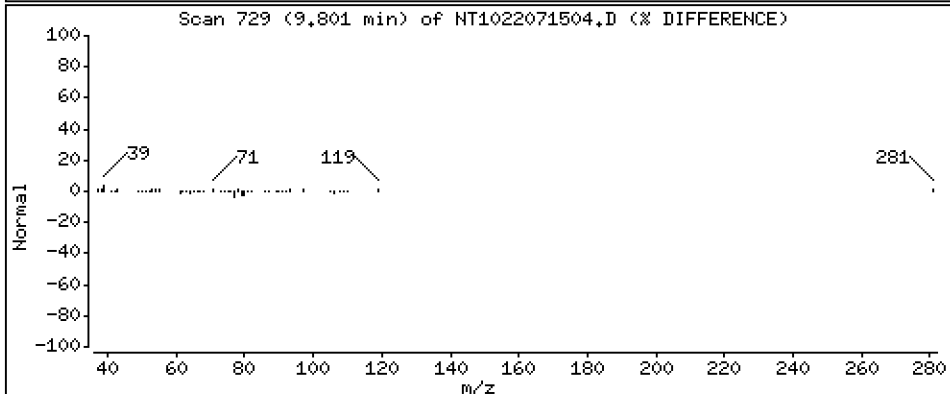
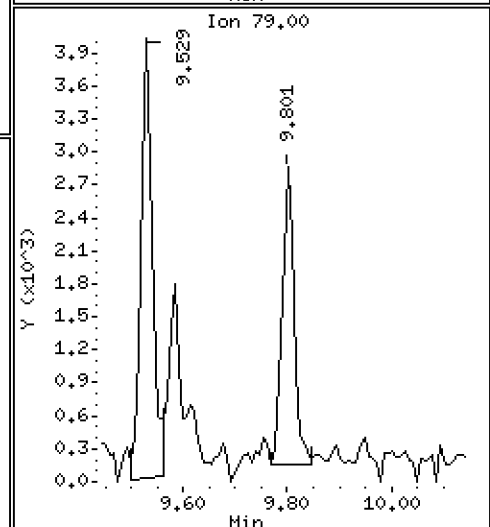
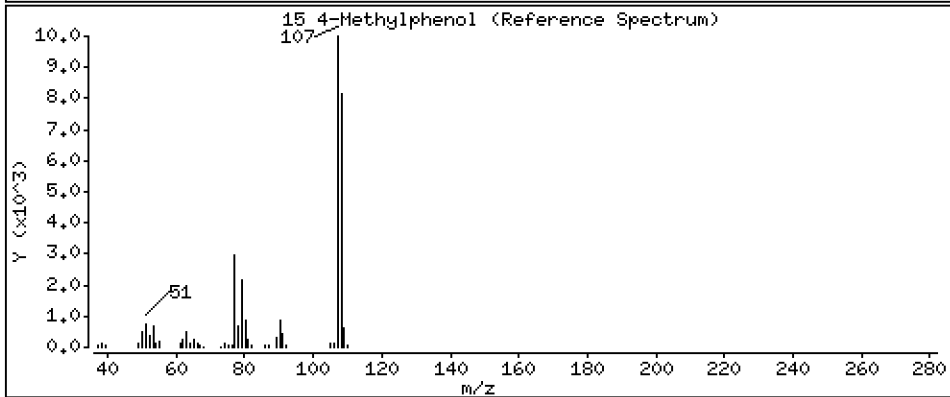
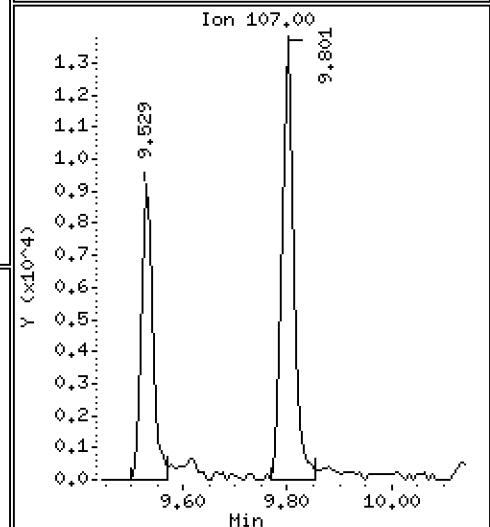
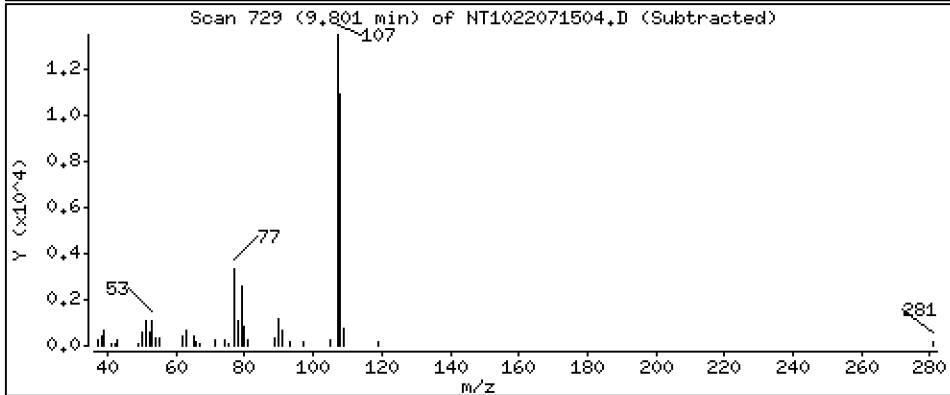
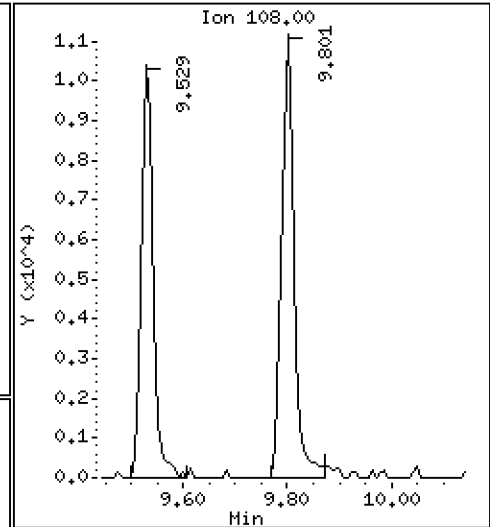
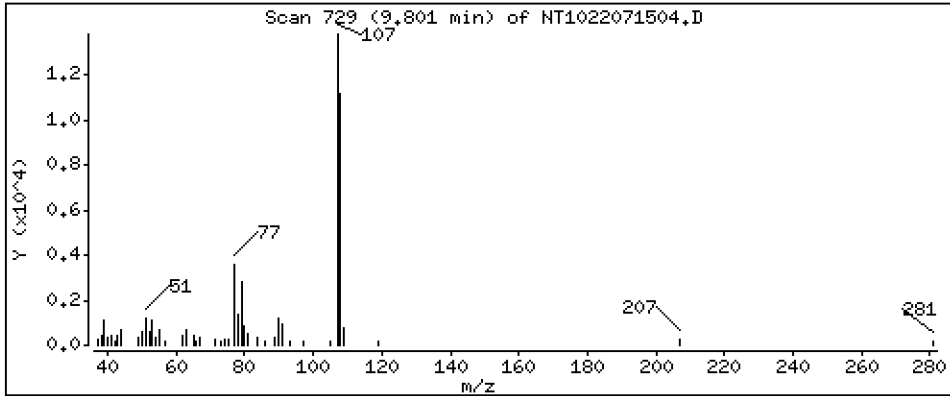
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1889 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

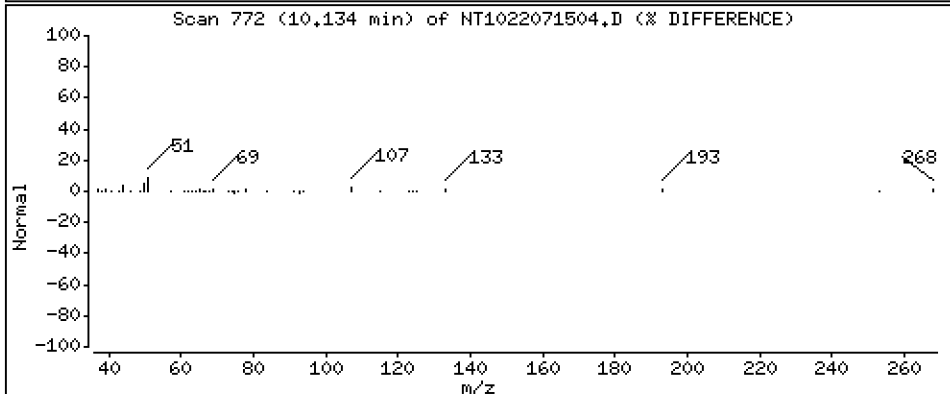
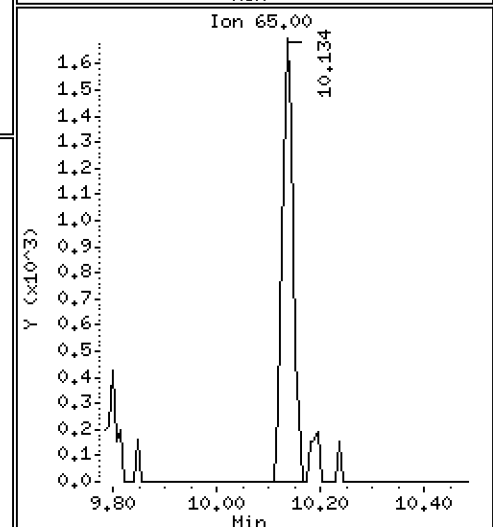
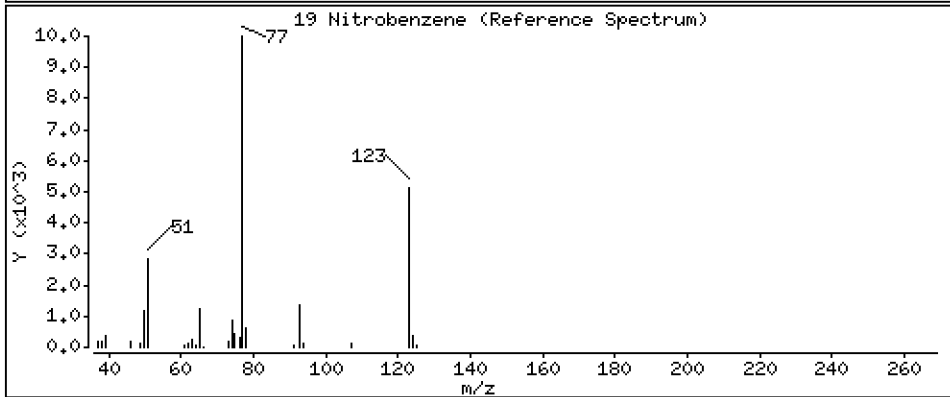
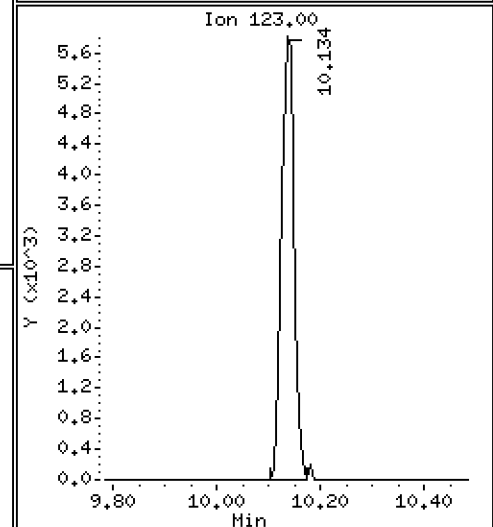
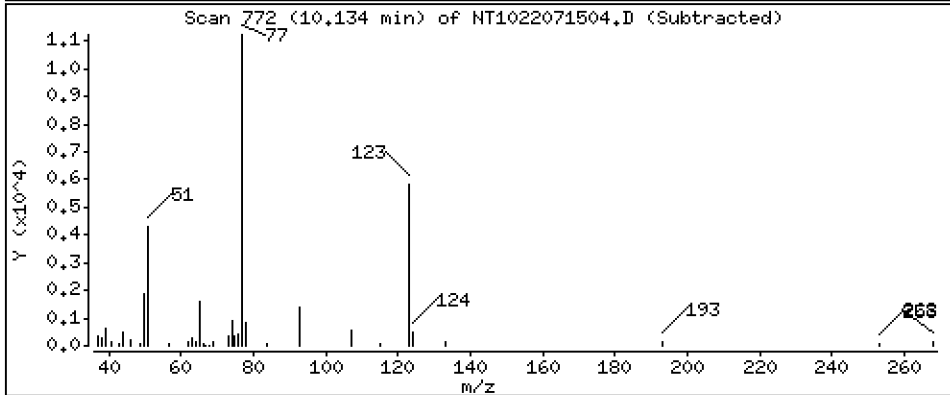
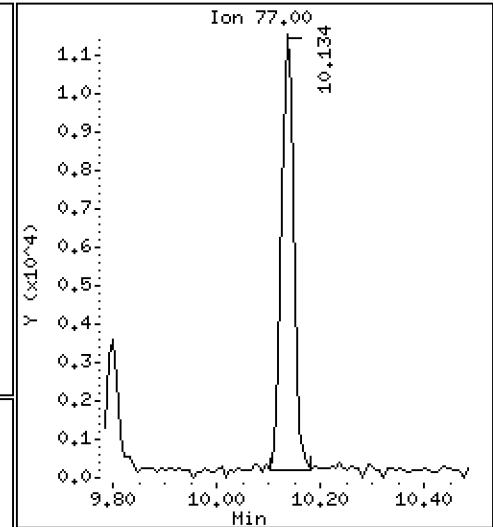
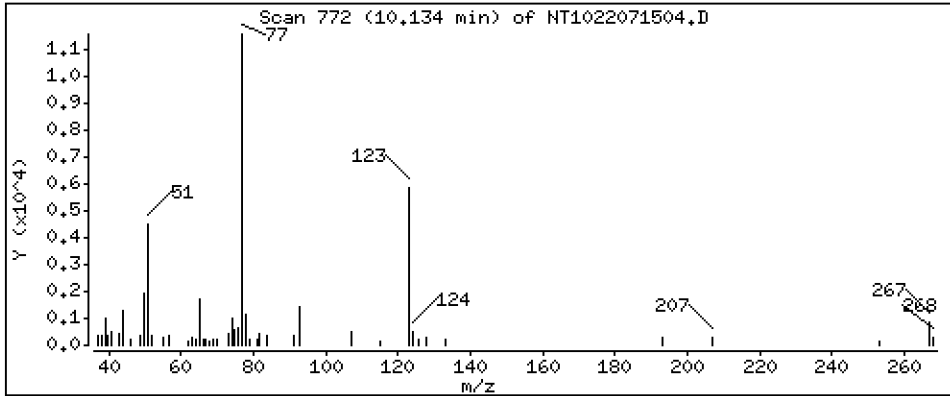
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,1752 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

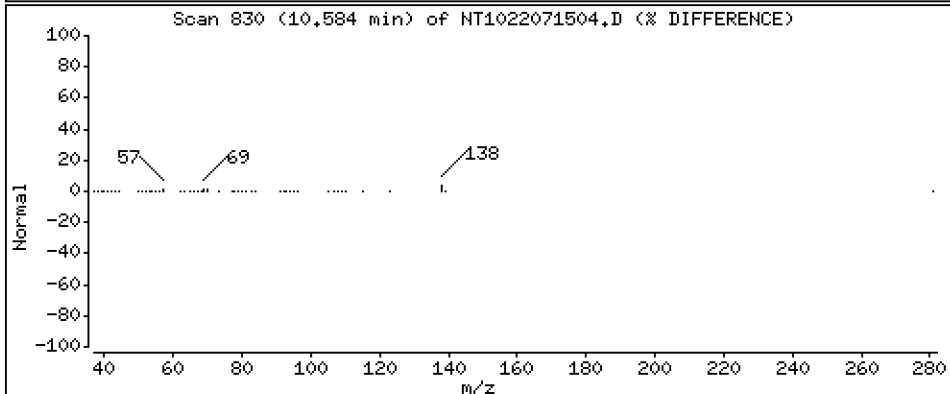
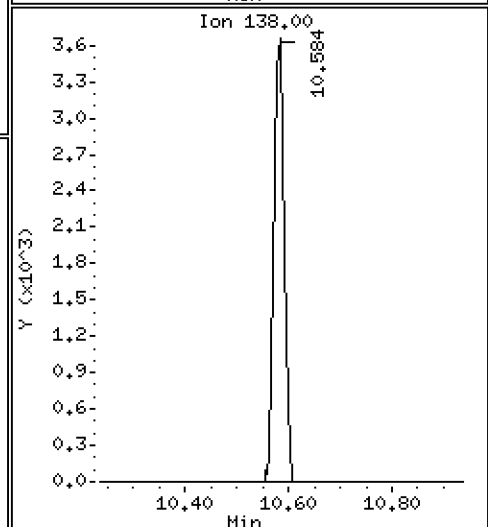
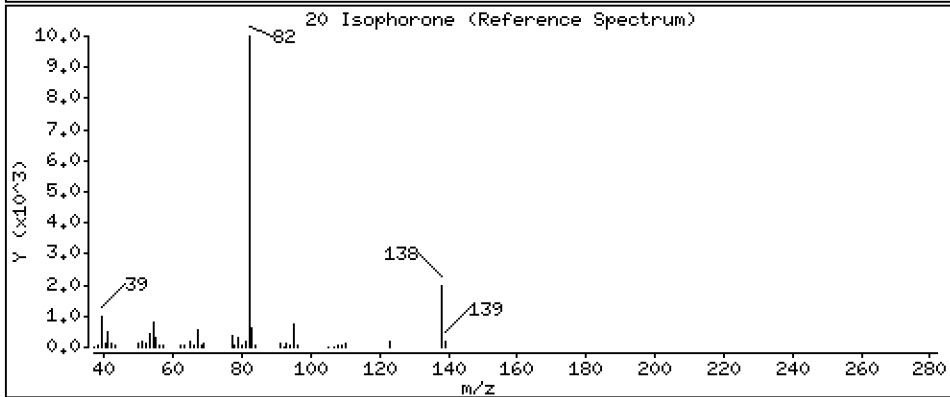
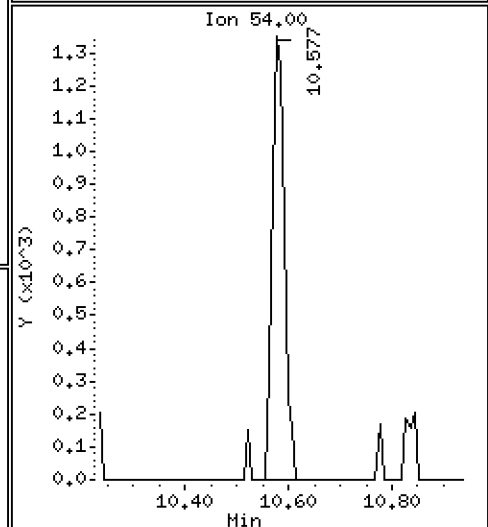
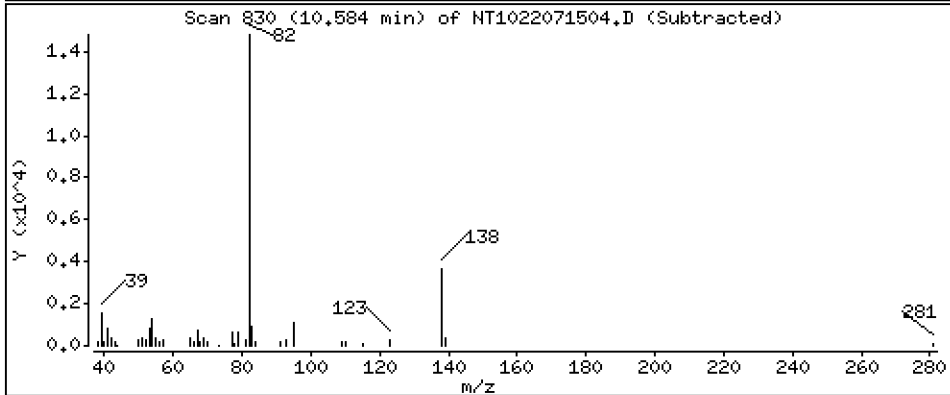
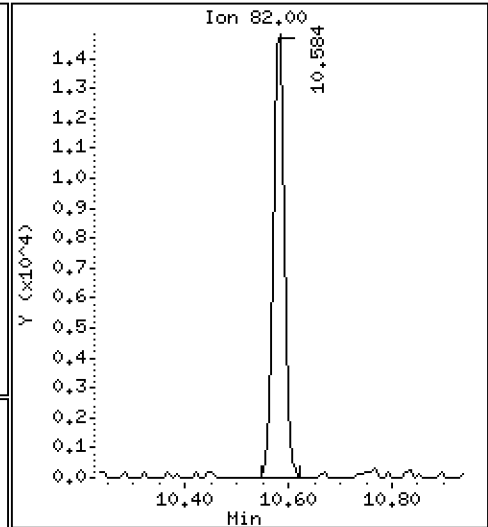
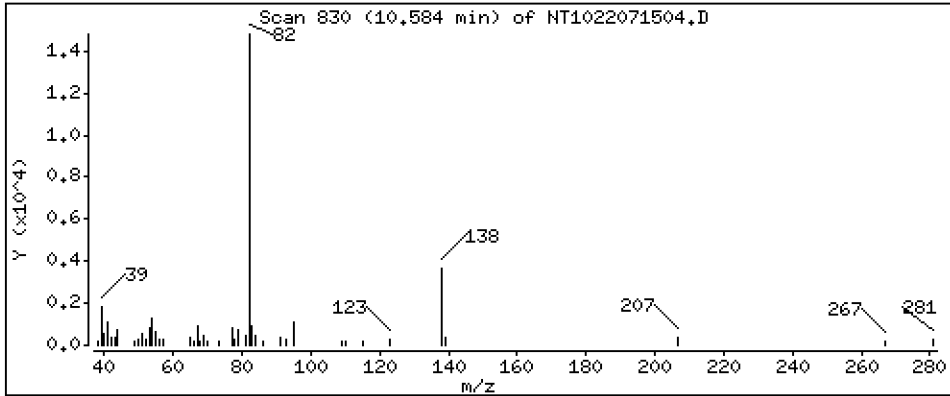
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.1605 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

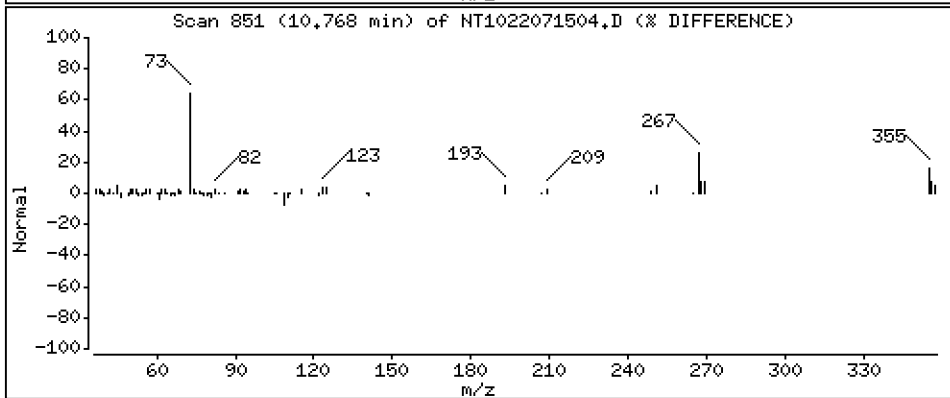
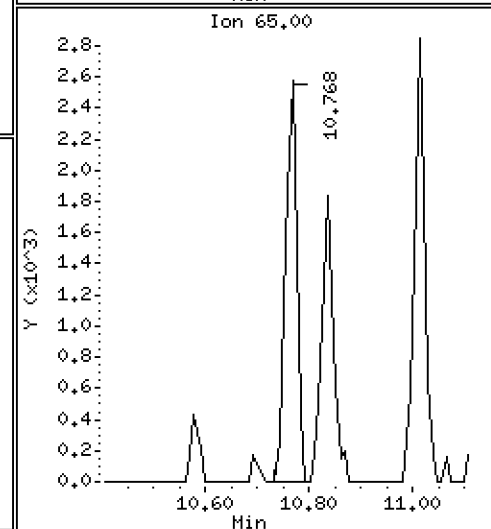
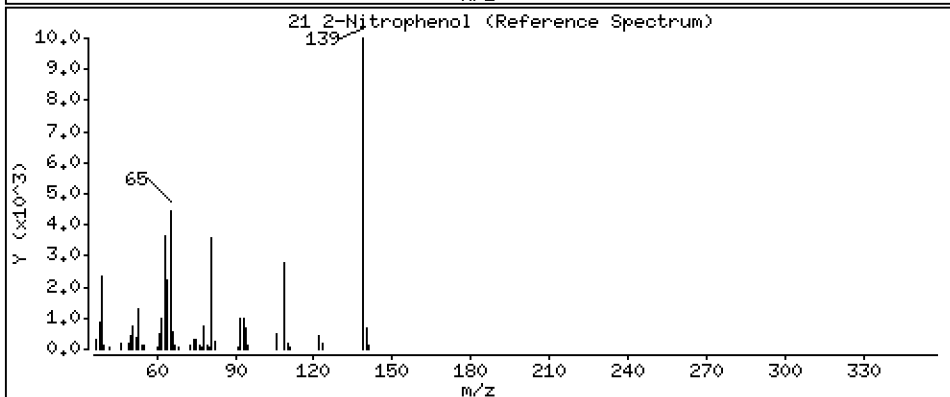
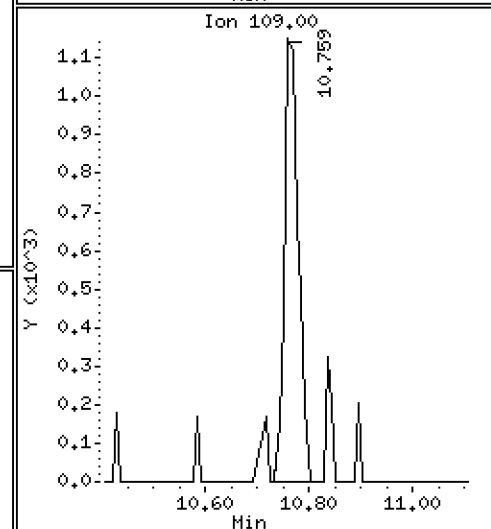
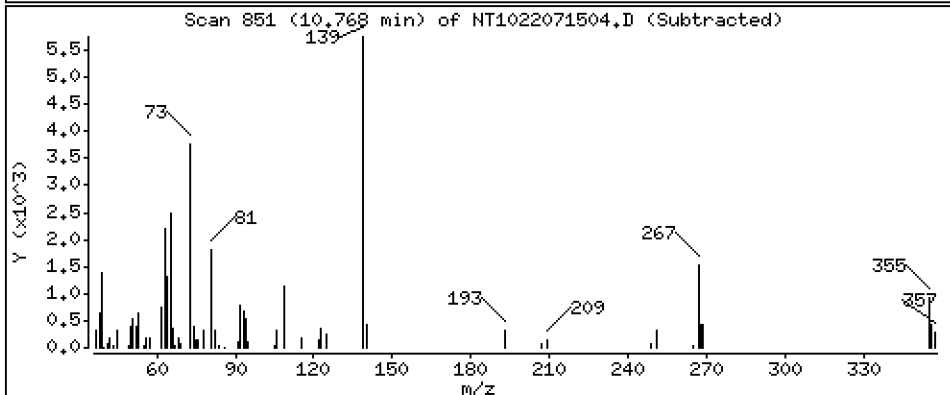
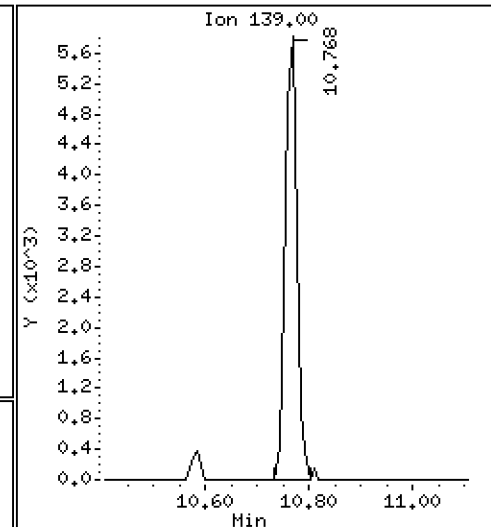
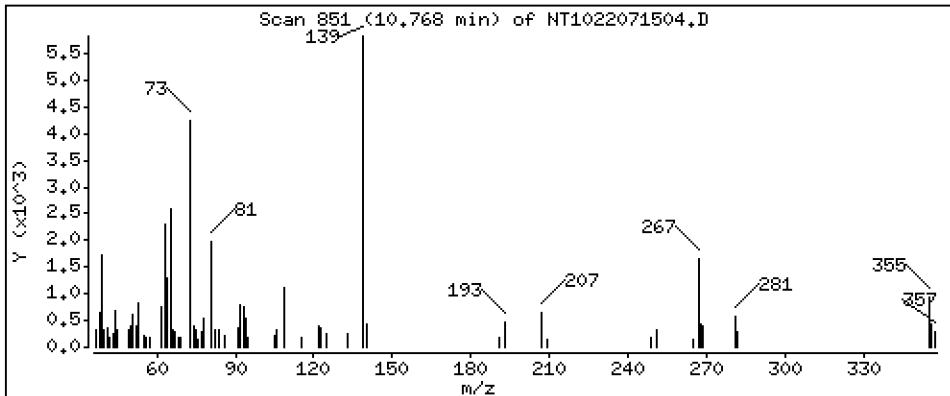
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1443 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

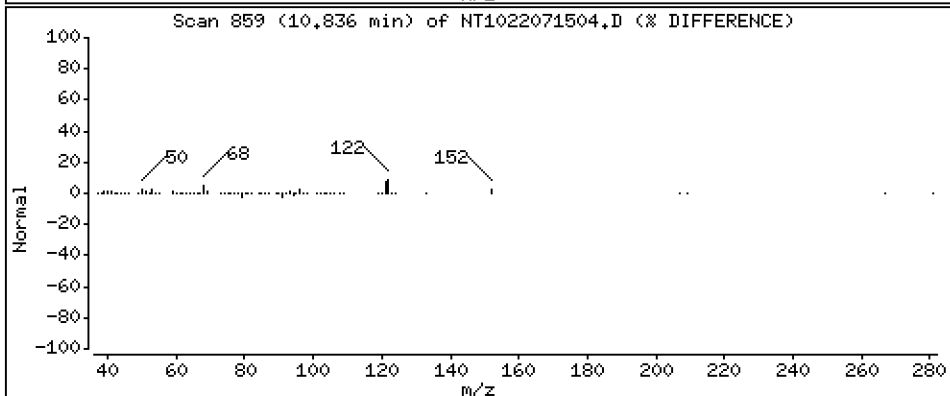
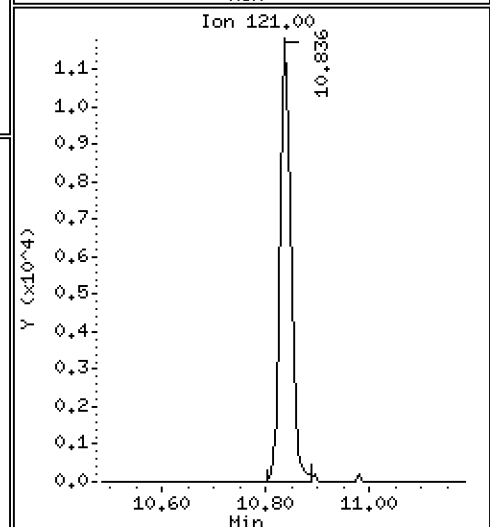
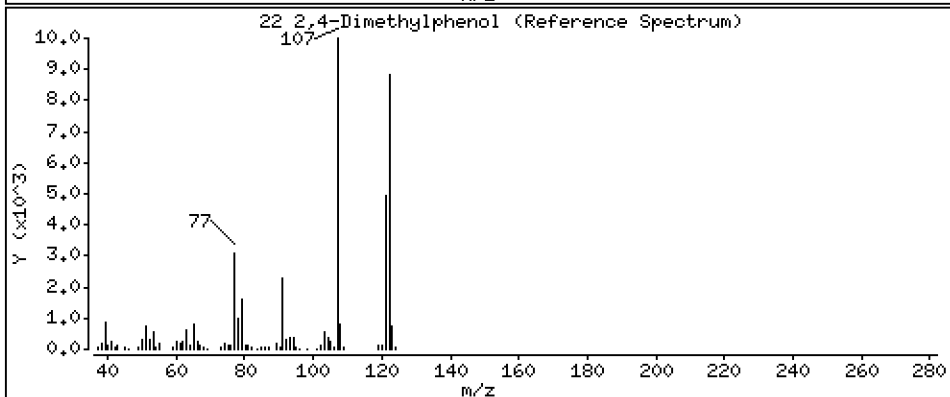
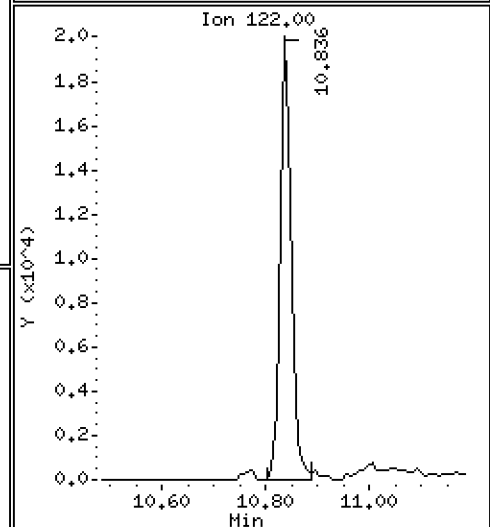
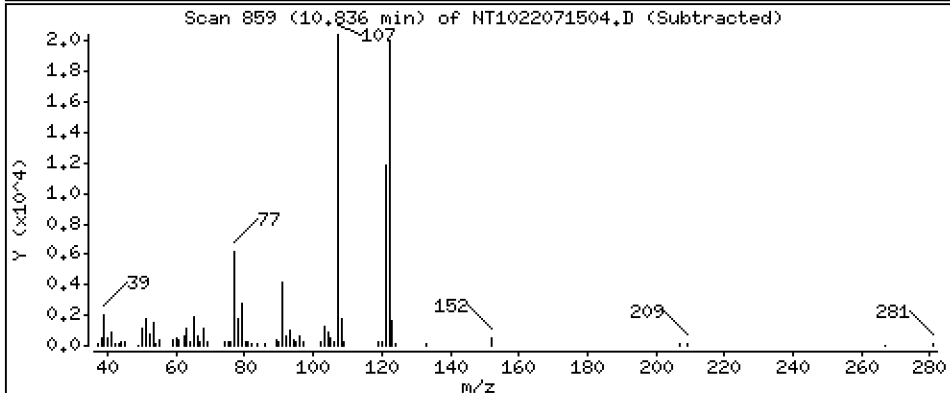
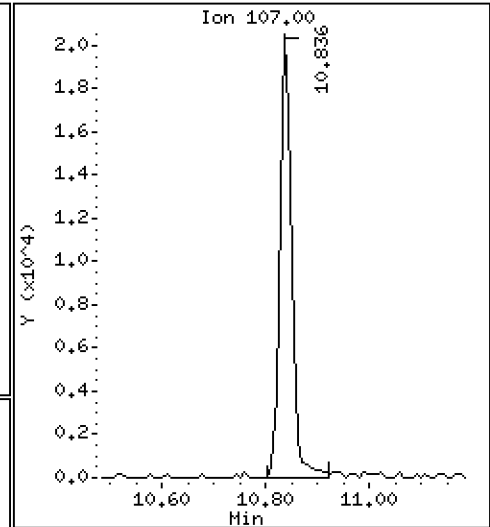
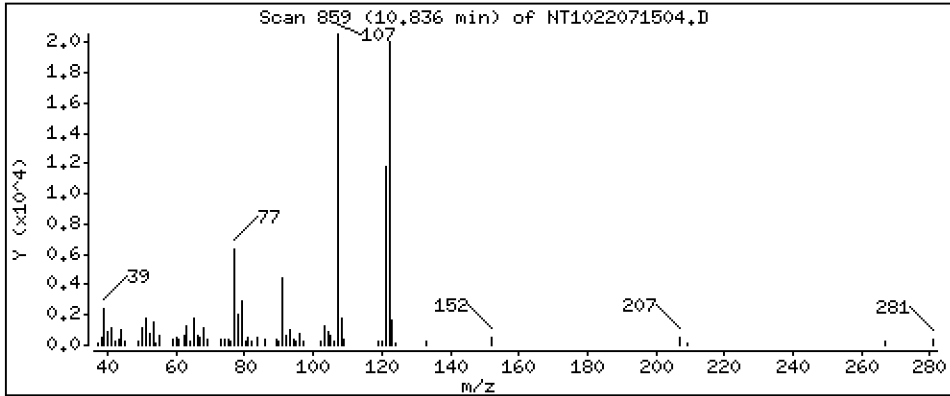
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4322 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

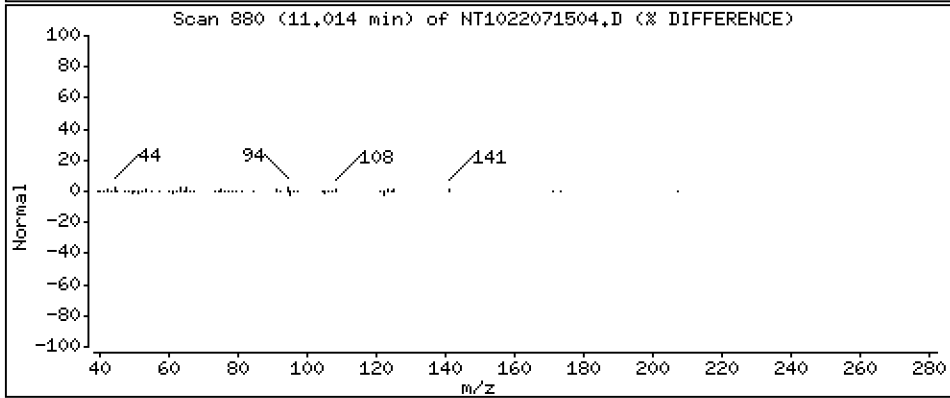
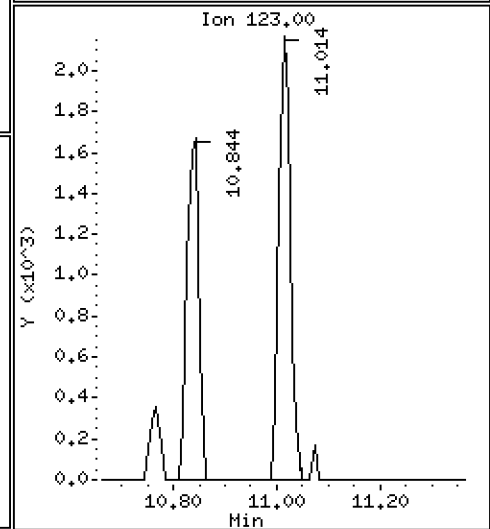
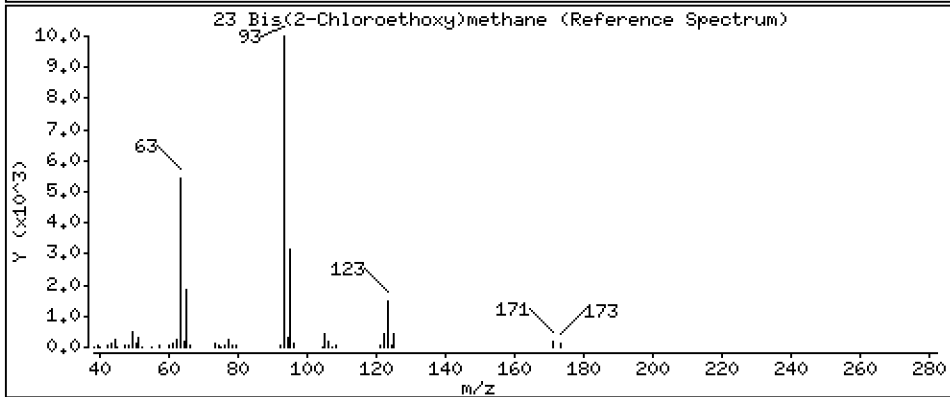
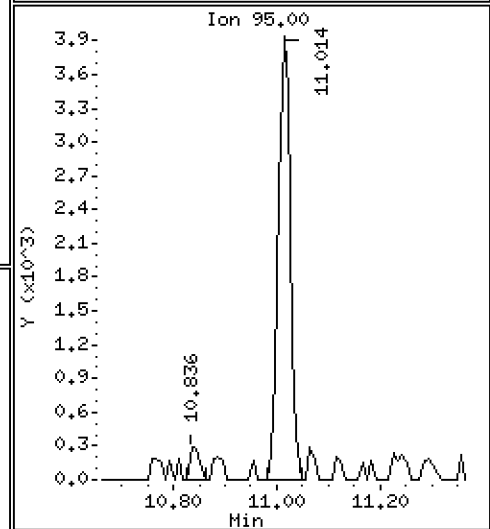
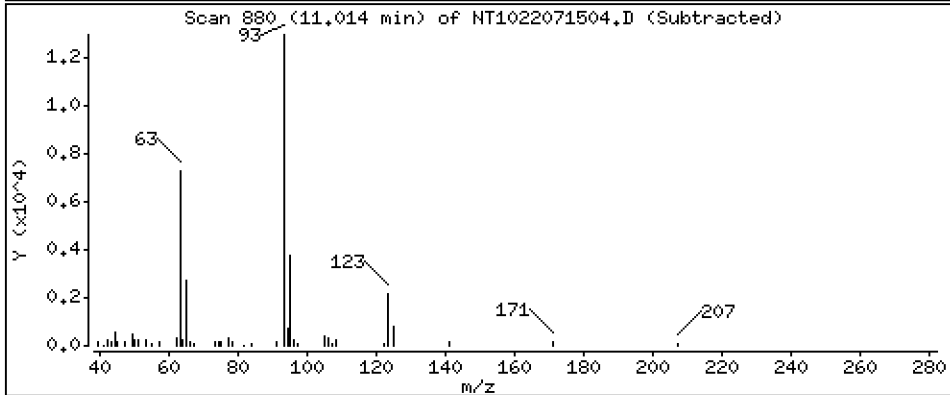
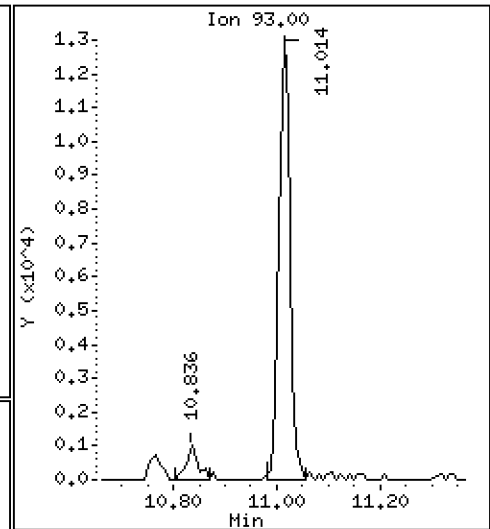
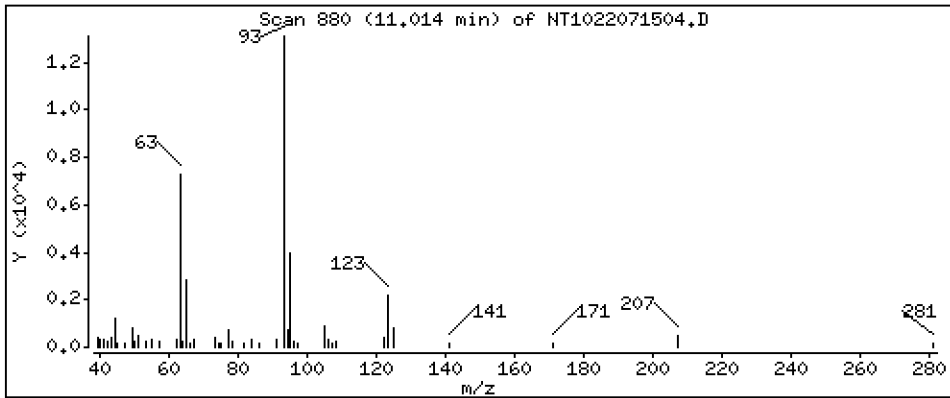
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,2240 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

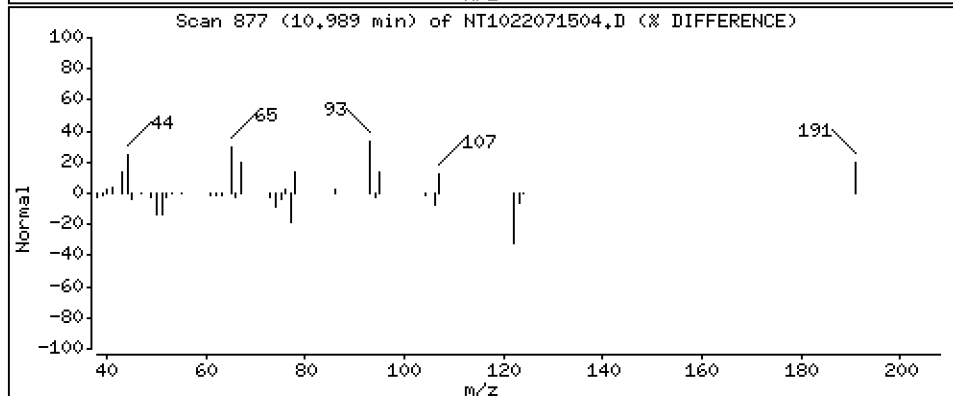
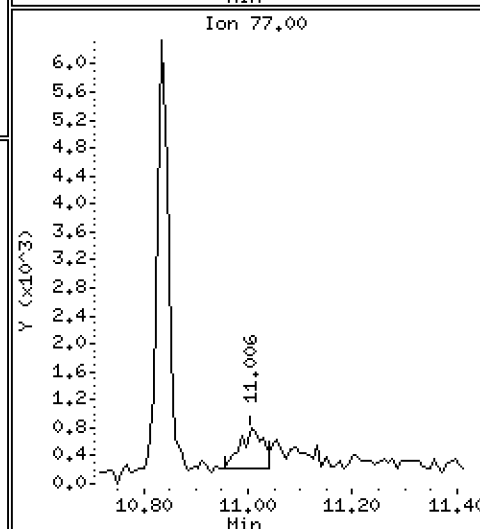
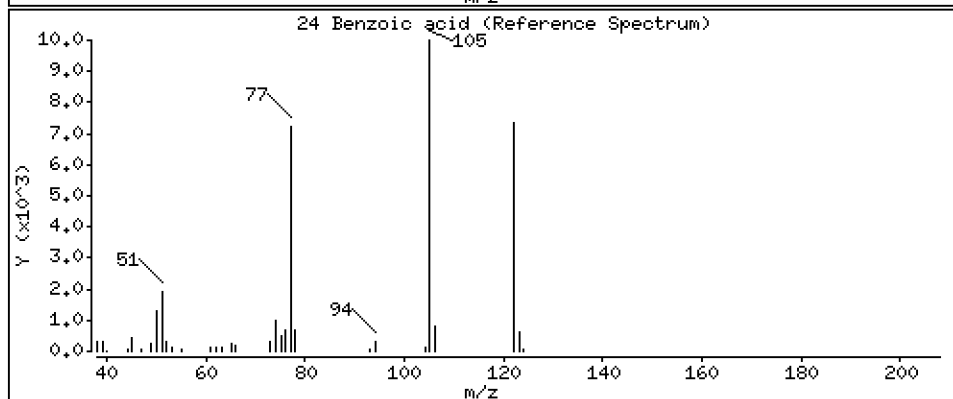
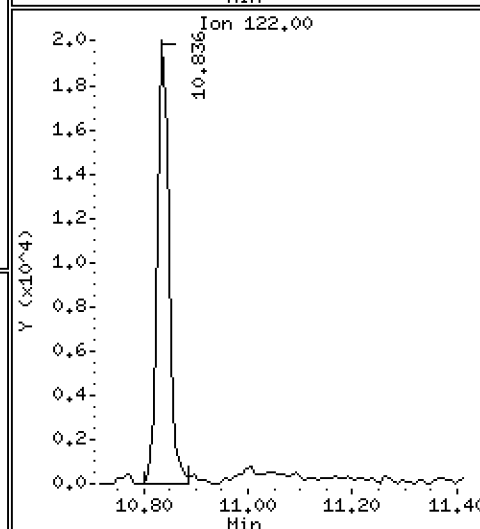
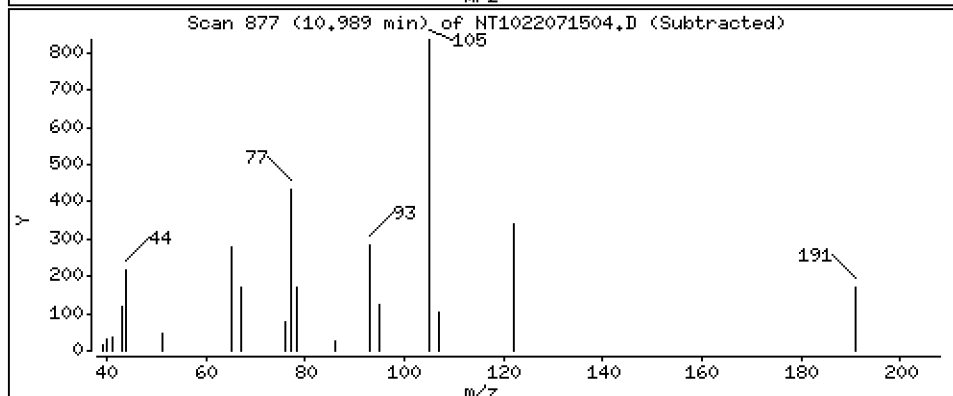
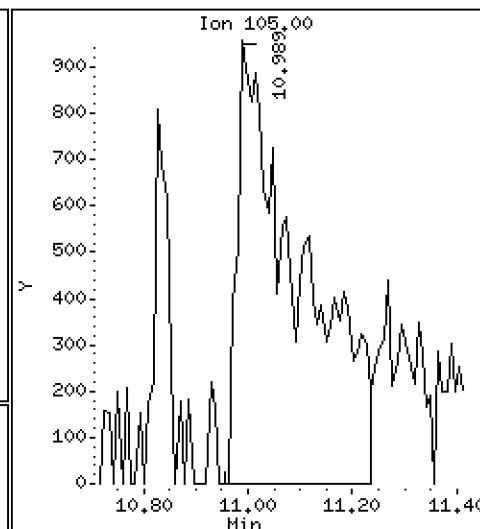
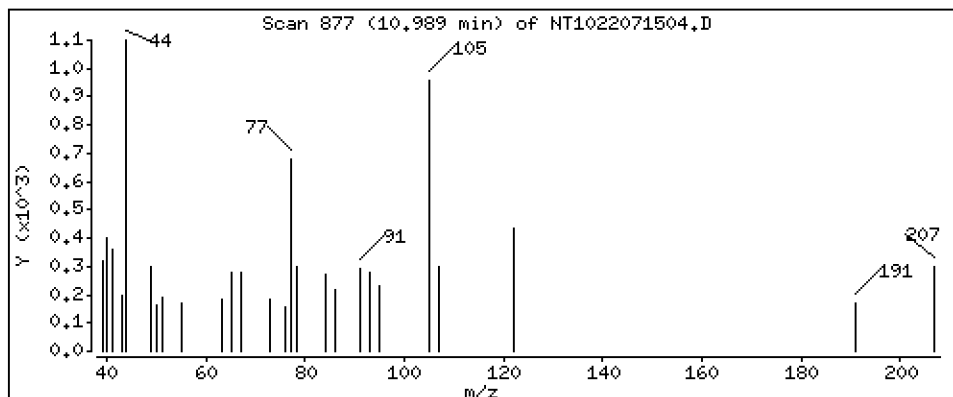
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,2005 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

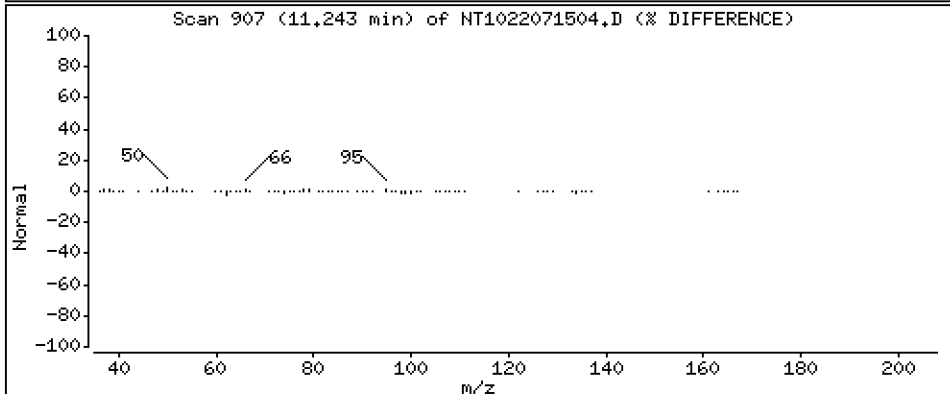
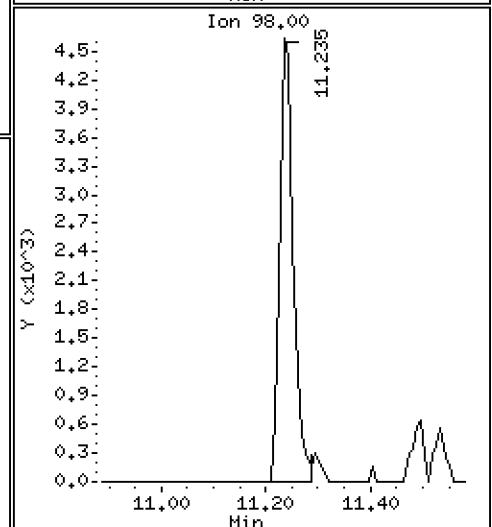
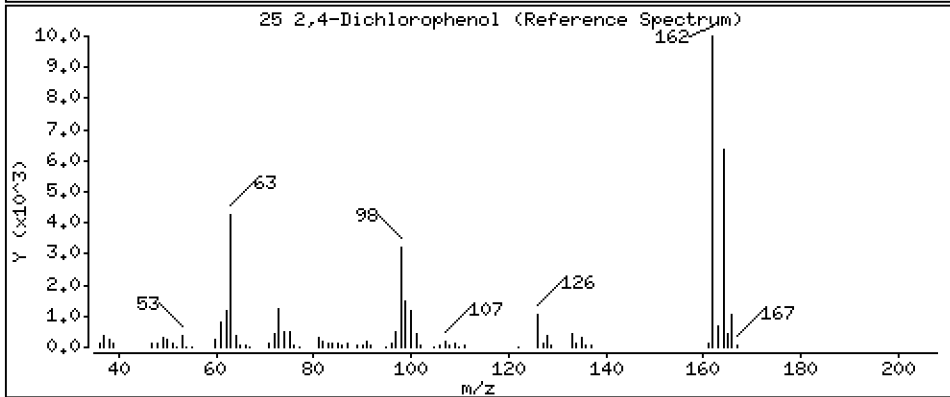
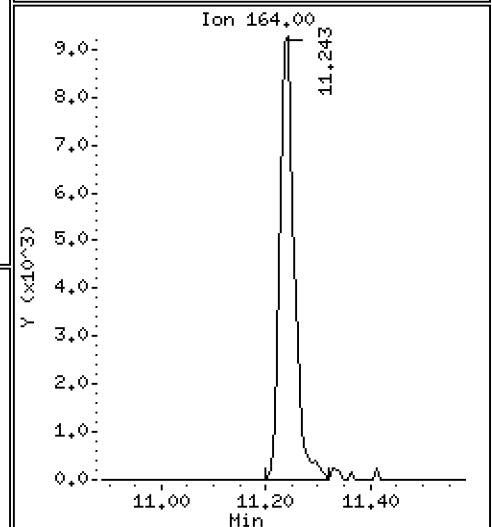
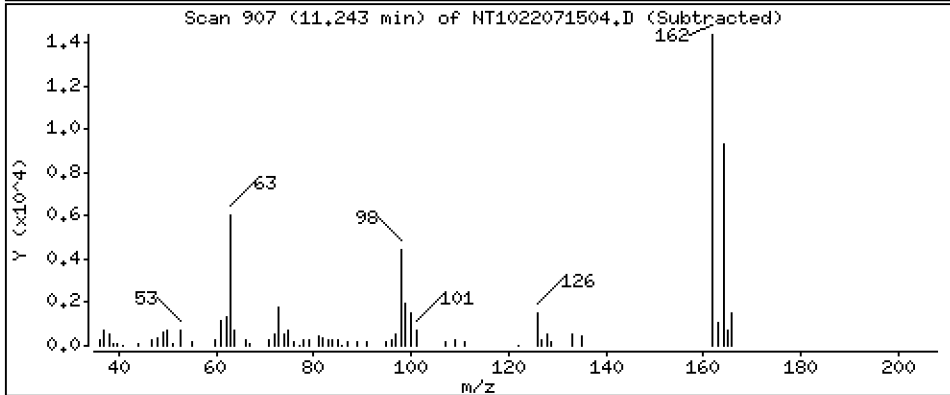
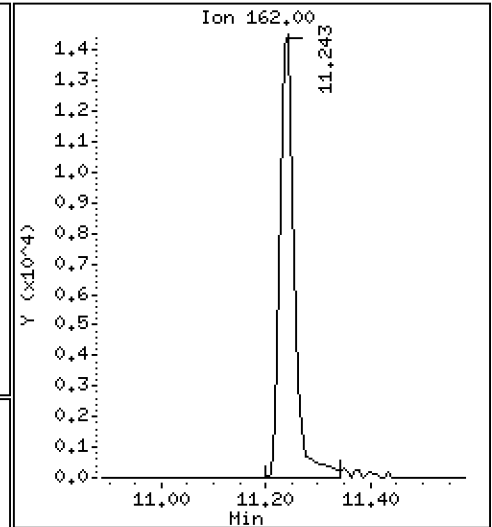
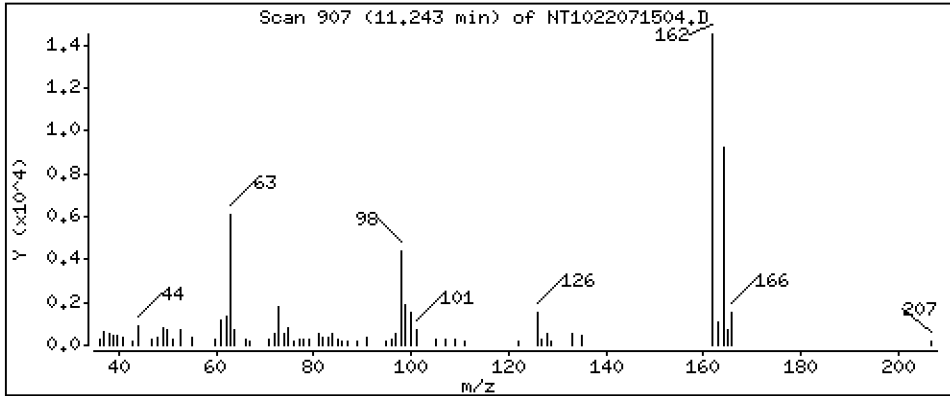
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3892 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

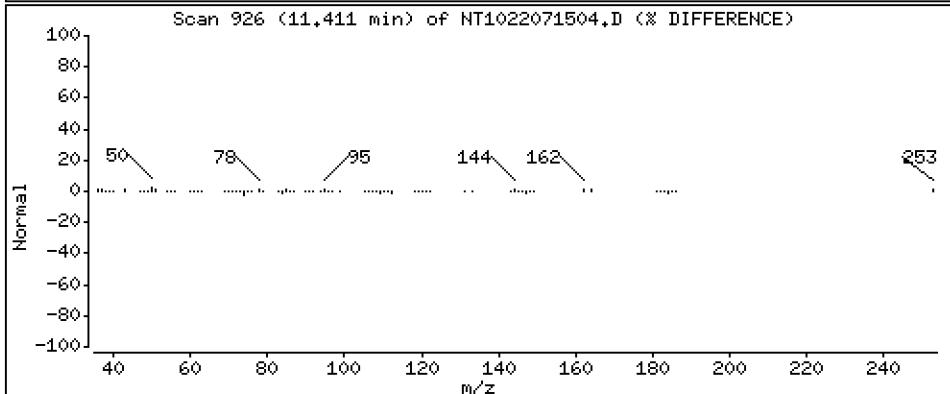
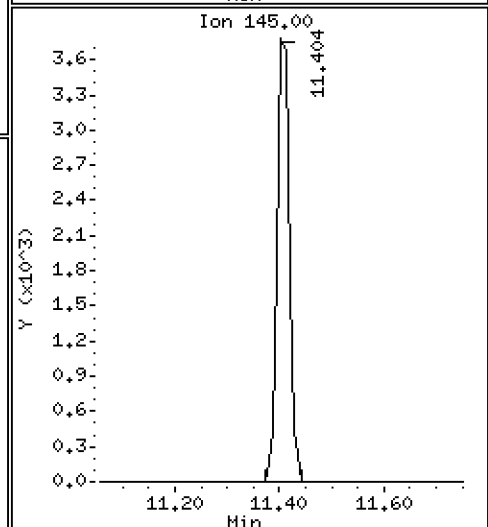
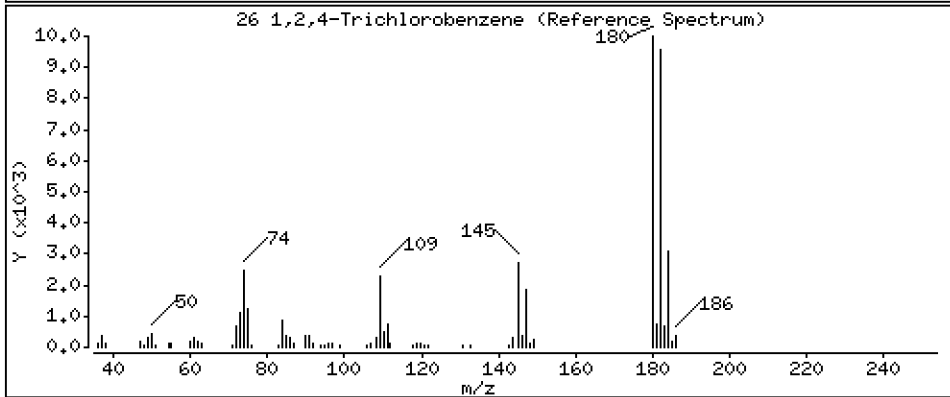
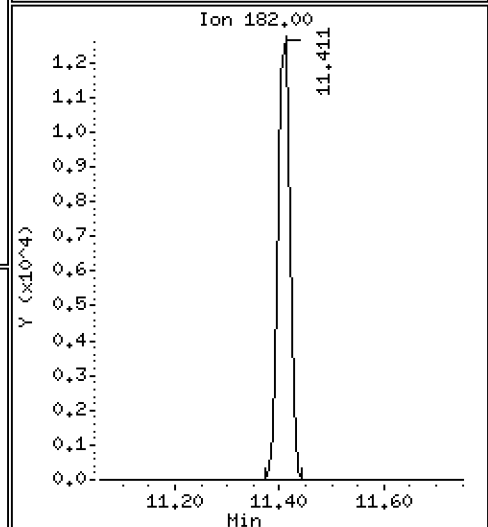
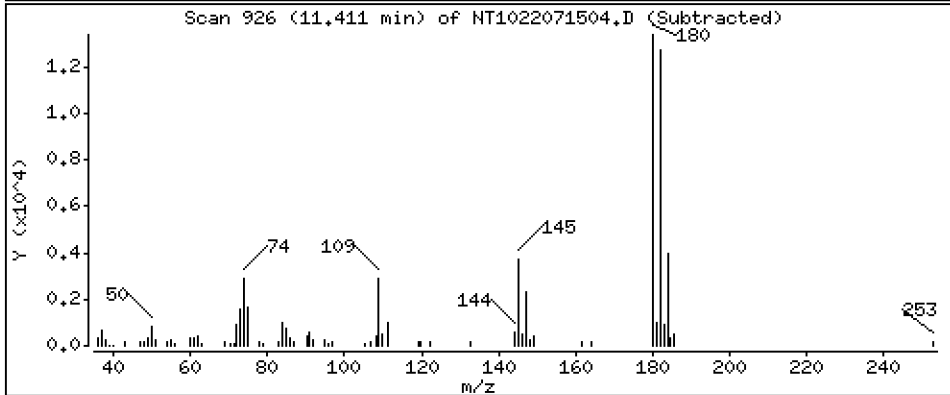
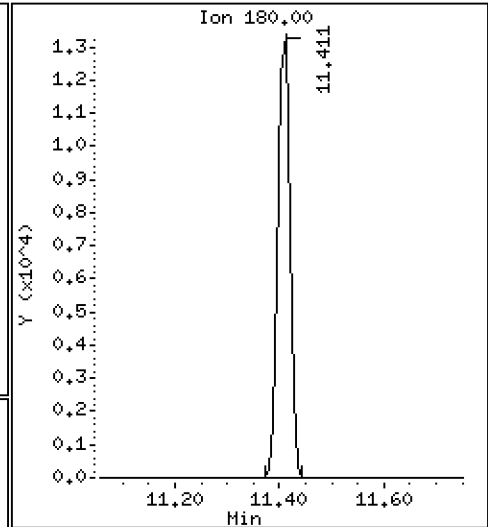
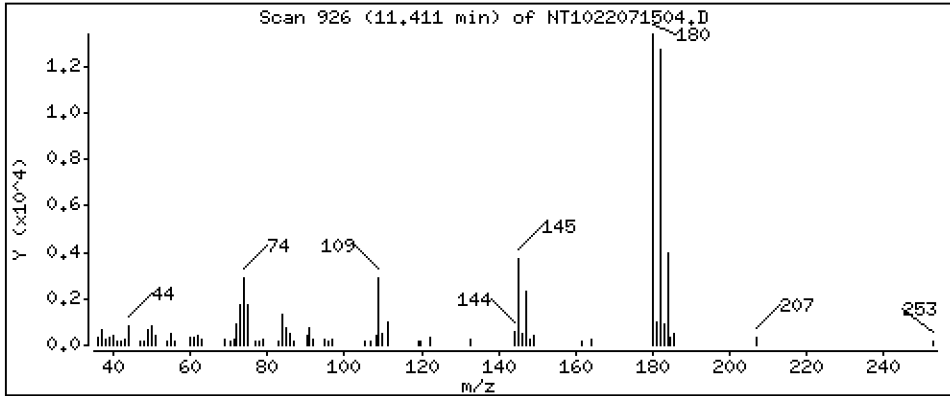
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 0.2395 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

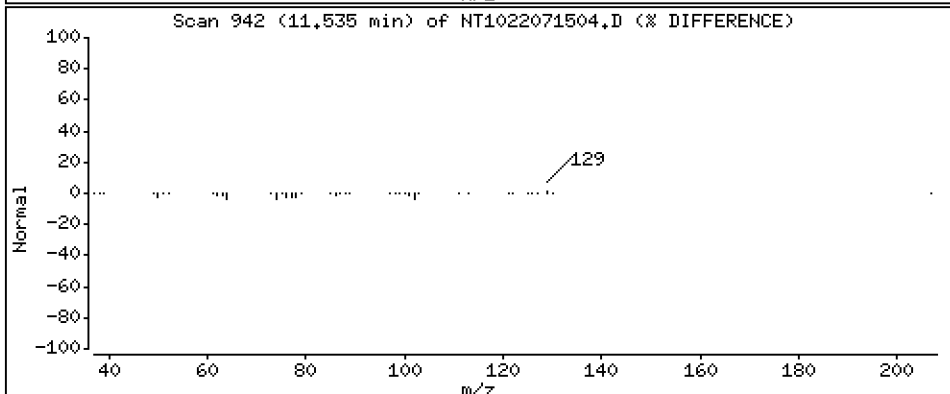
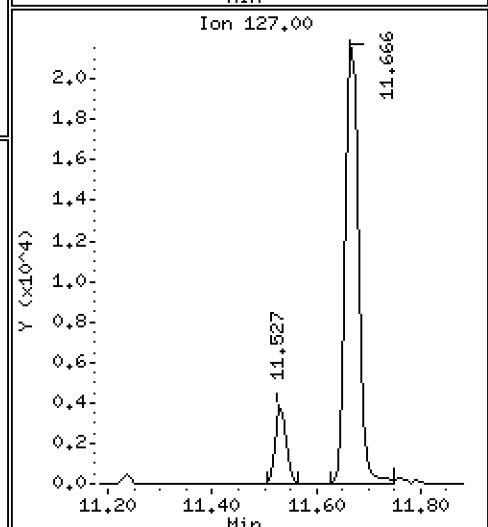
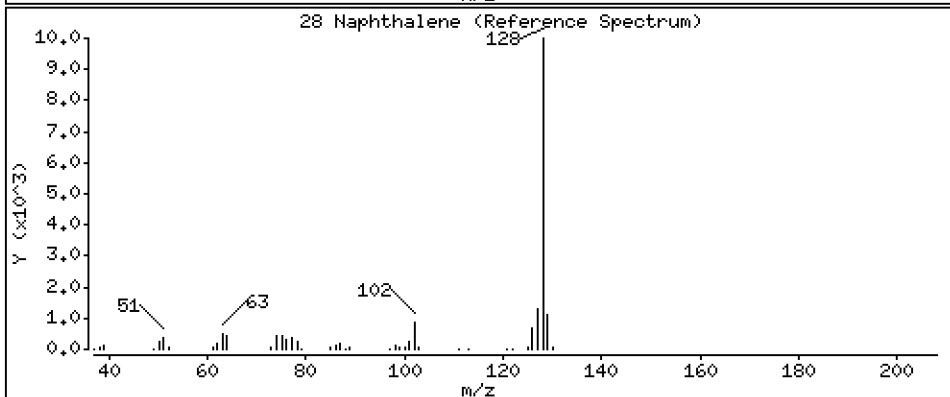
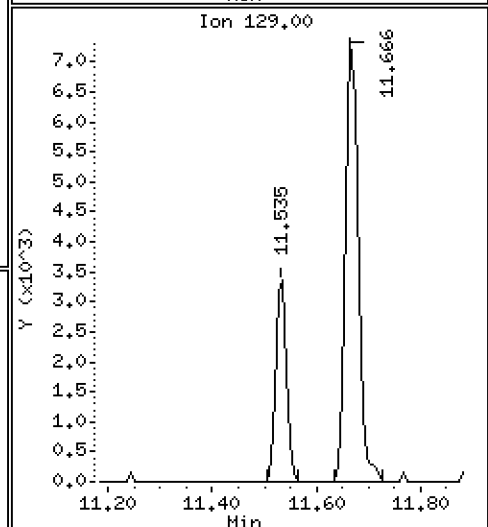
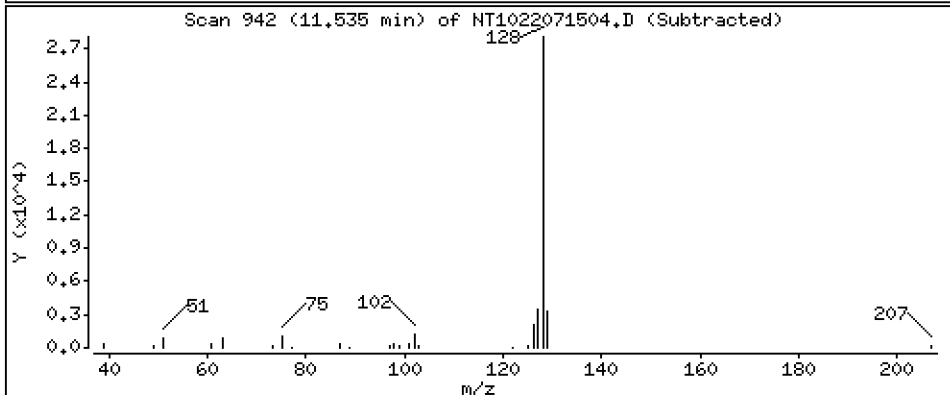
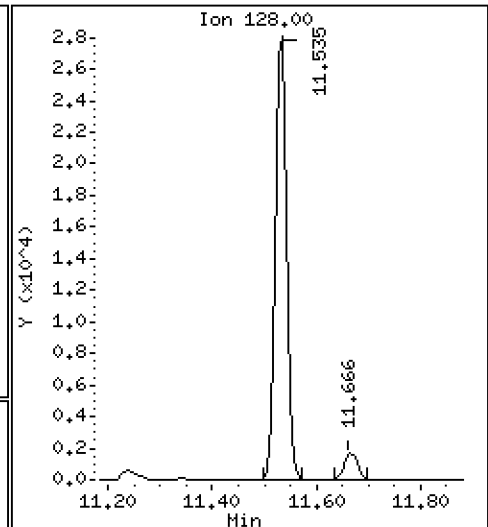
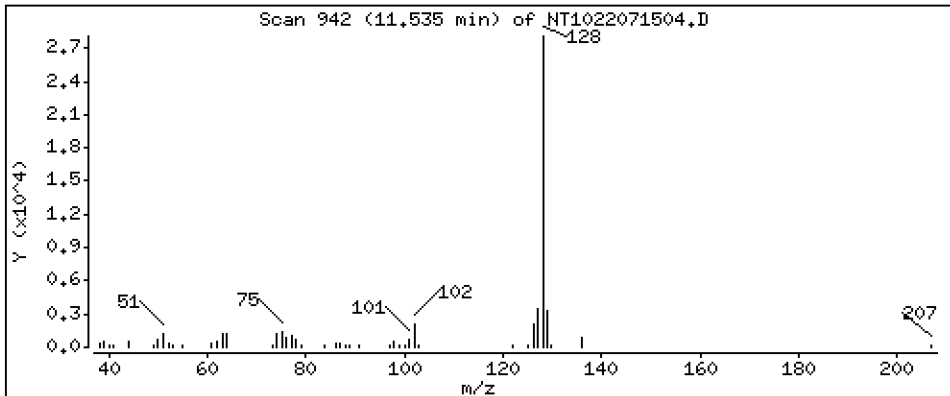
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.1846 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

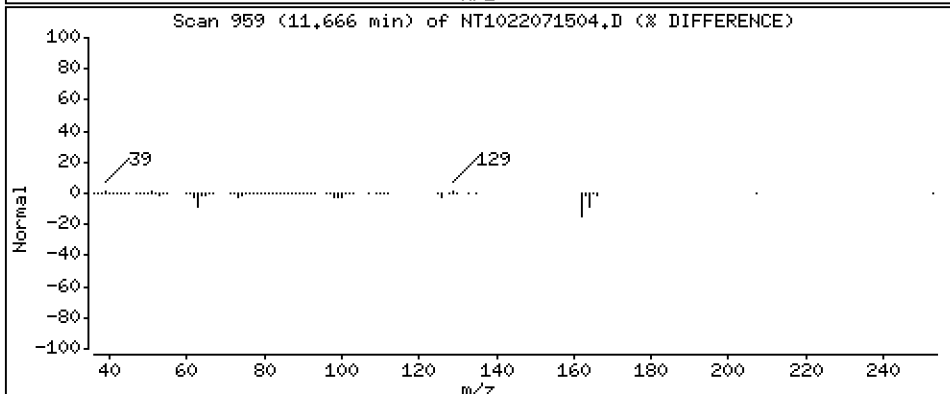
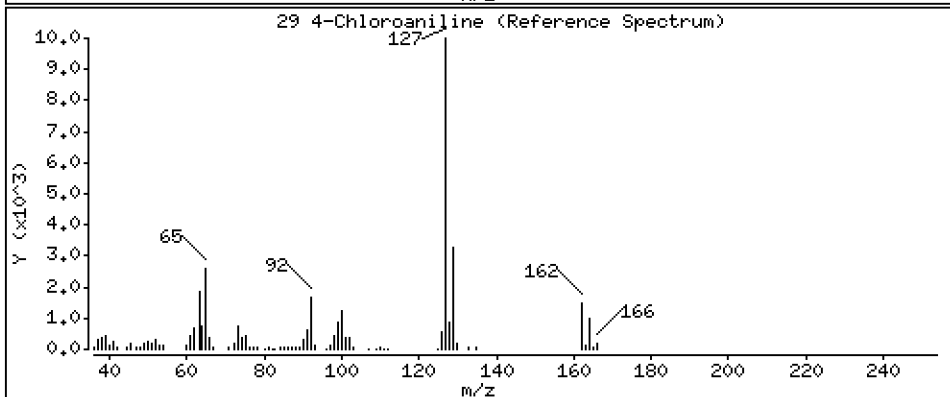
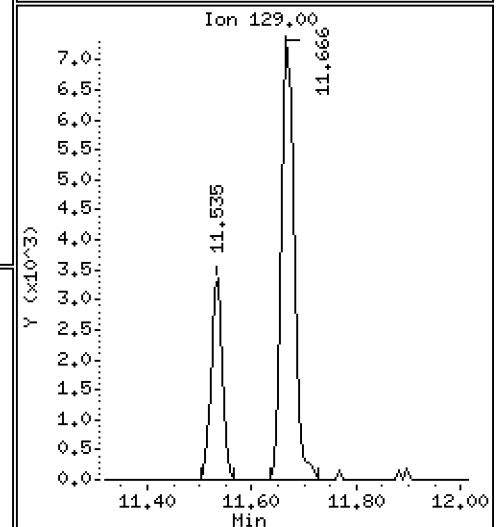
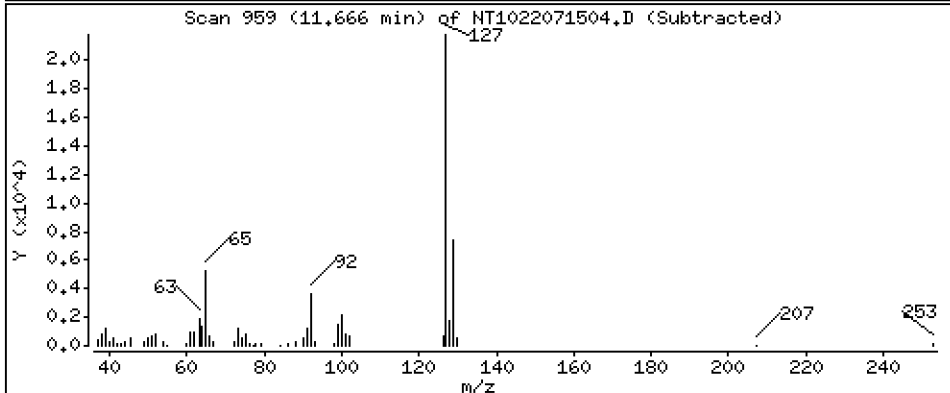
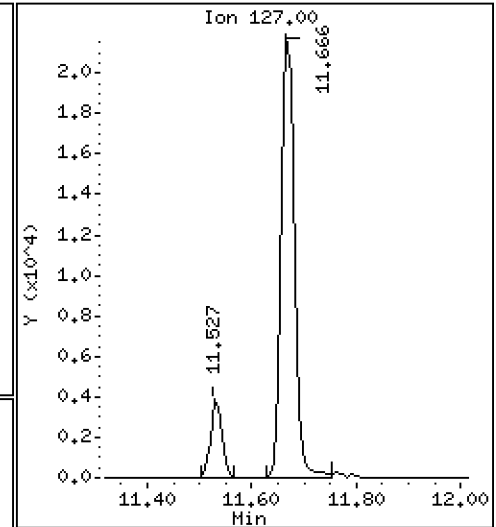
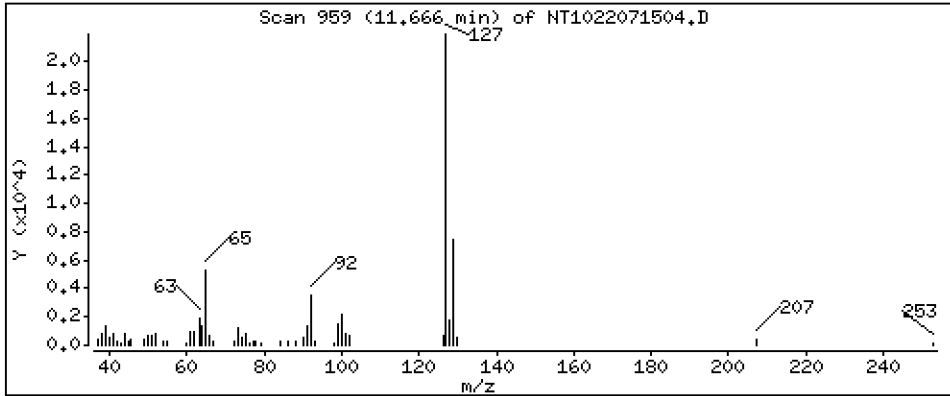
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3418 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

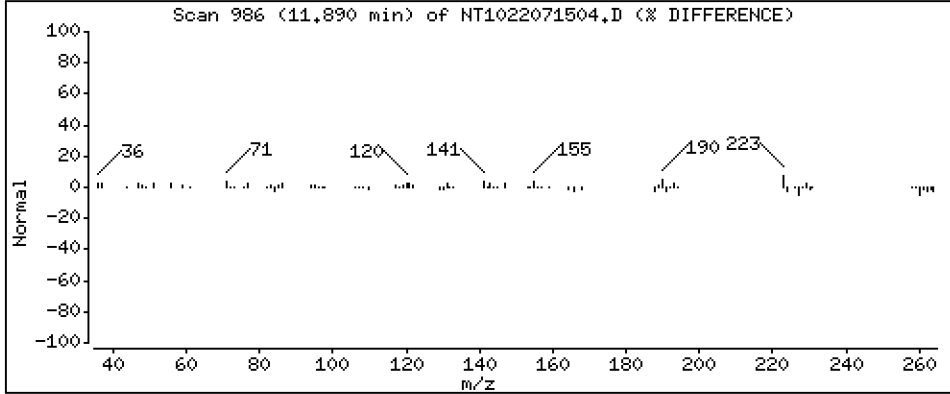
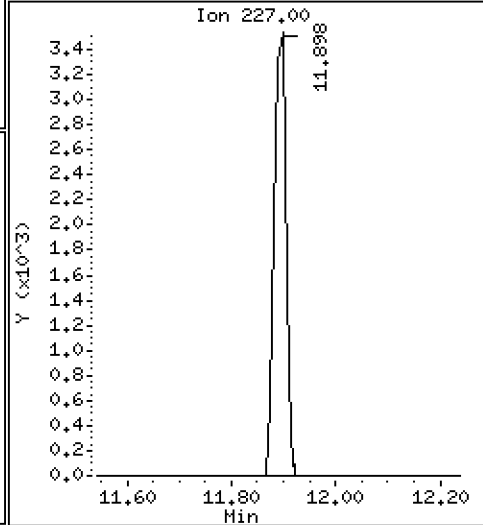
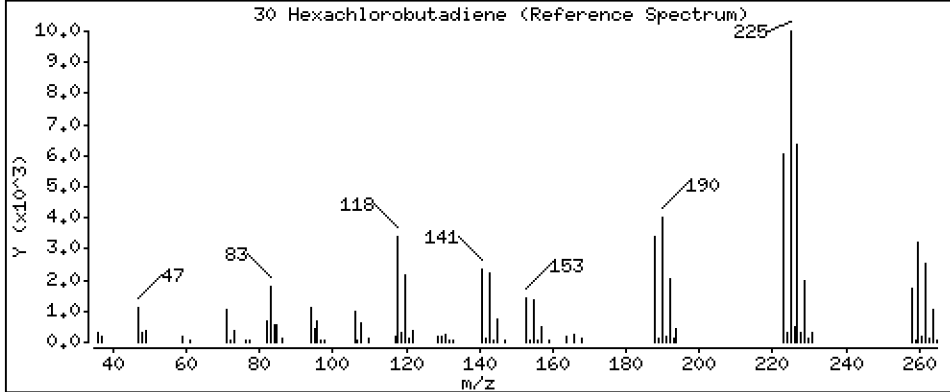
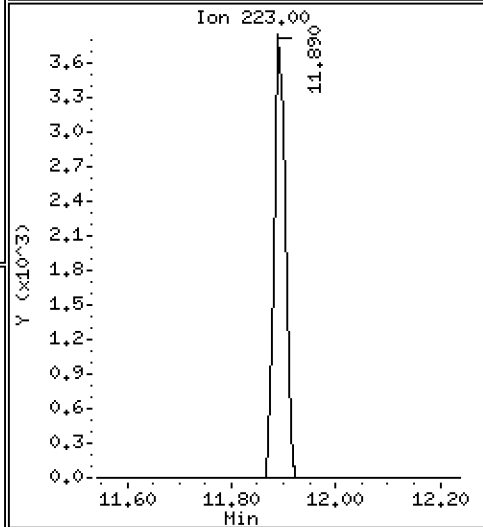
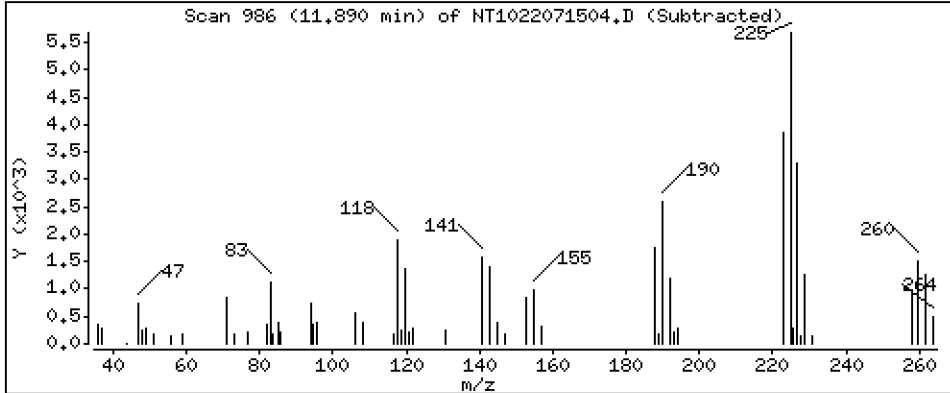
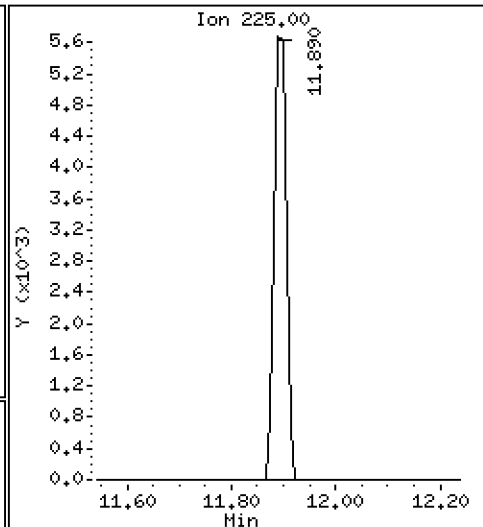
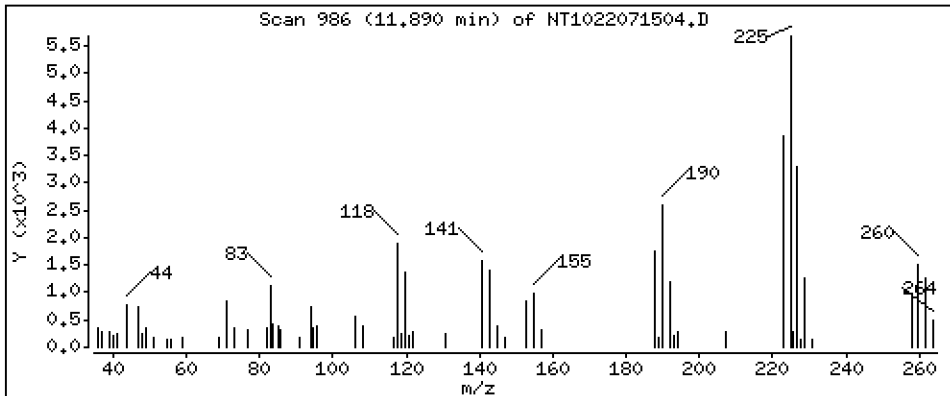
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2160 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

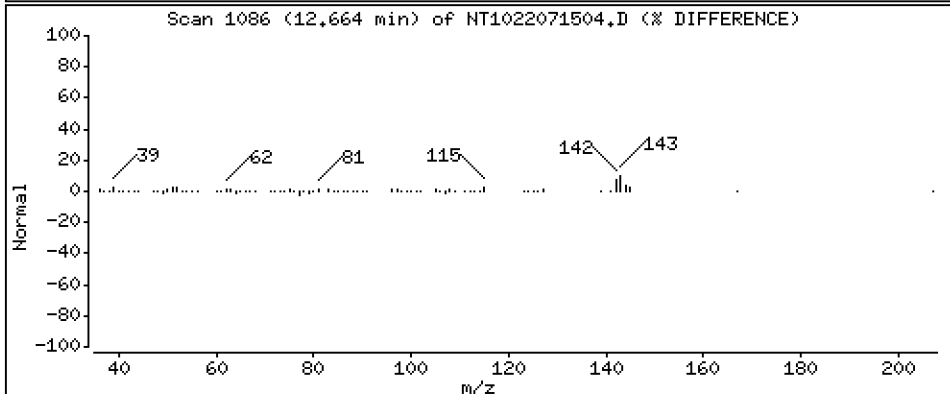
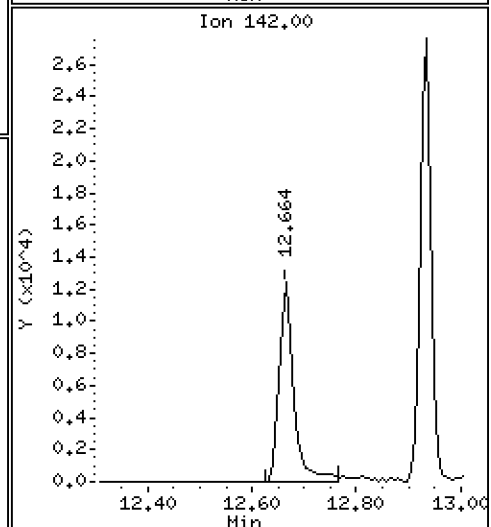
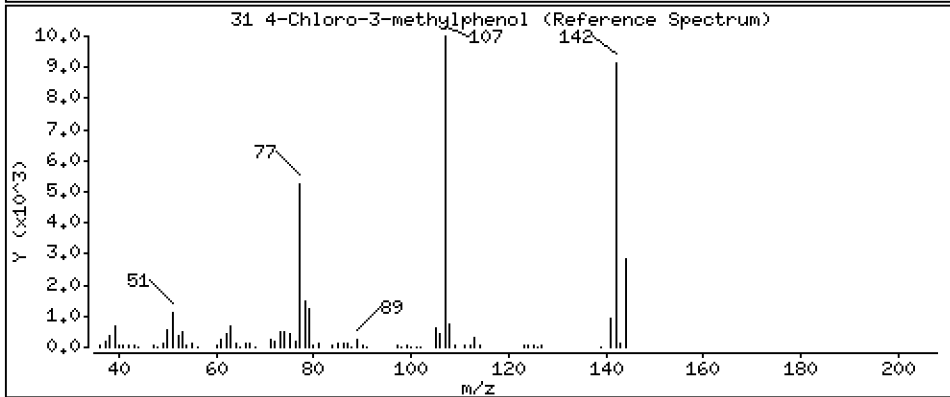
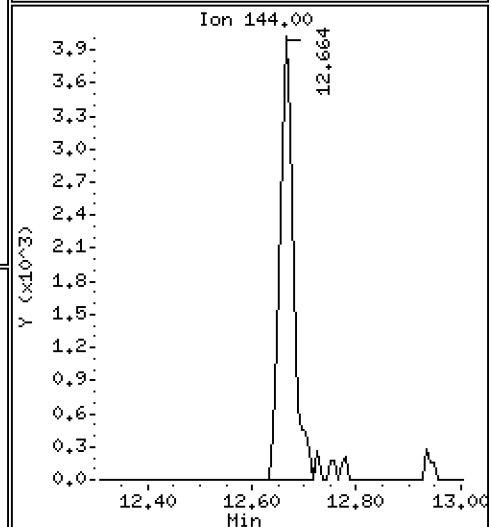
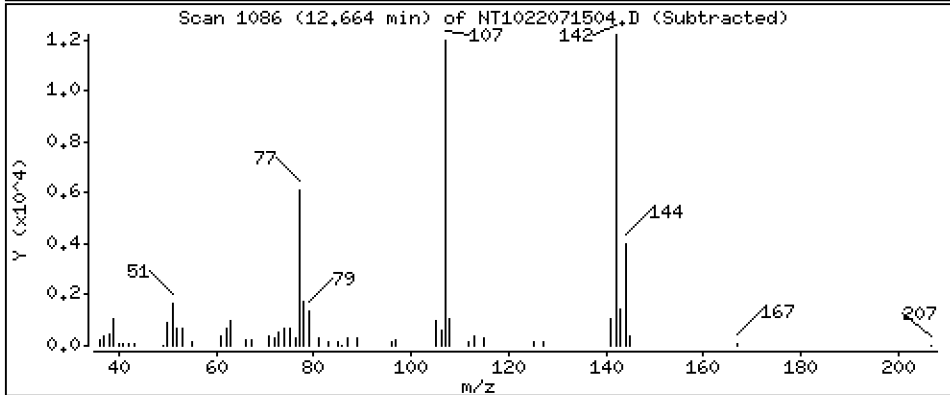
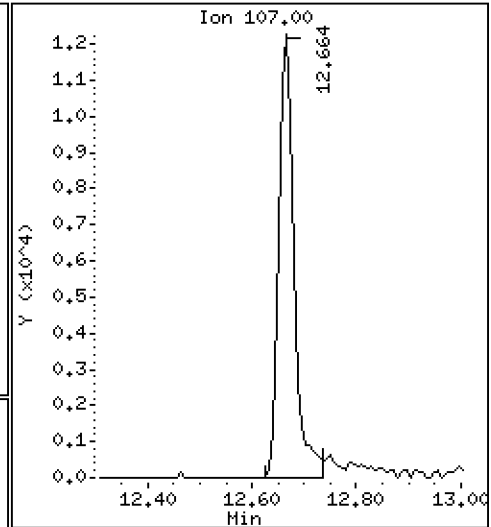
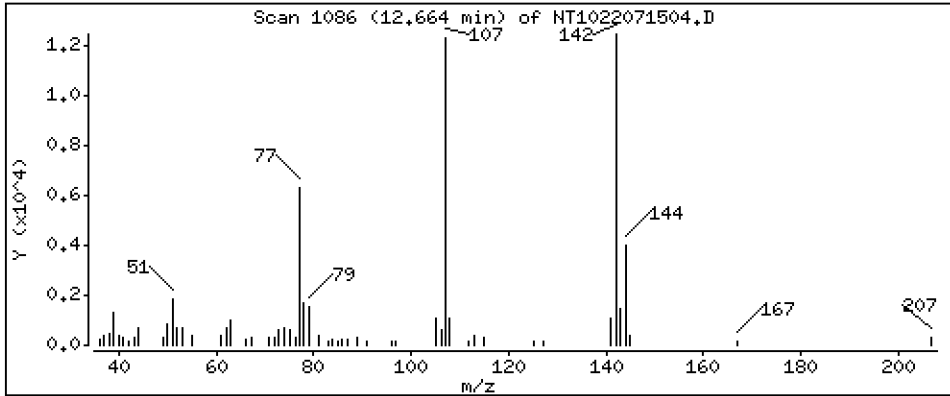
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,2650 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

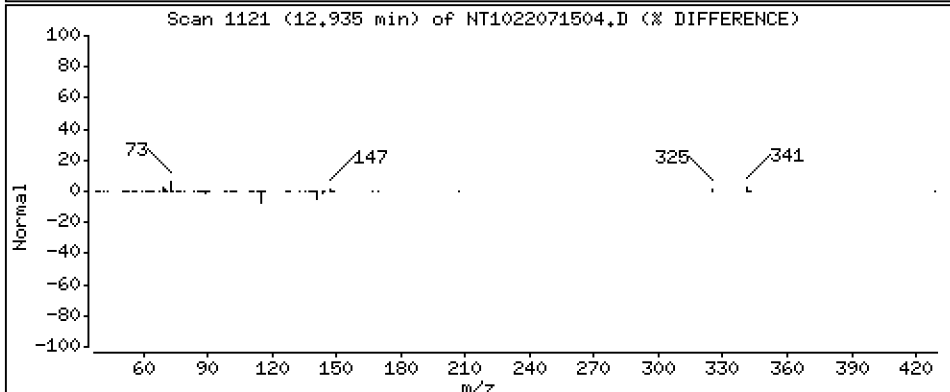
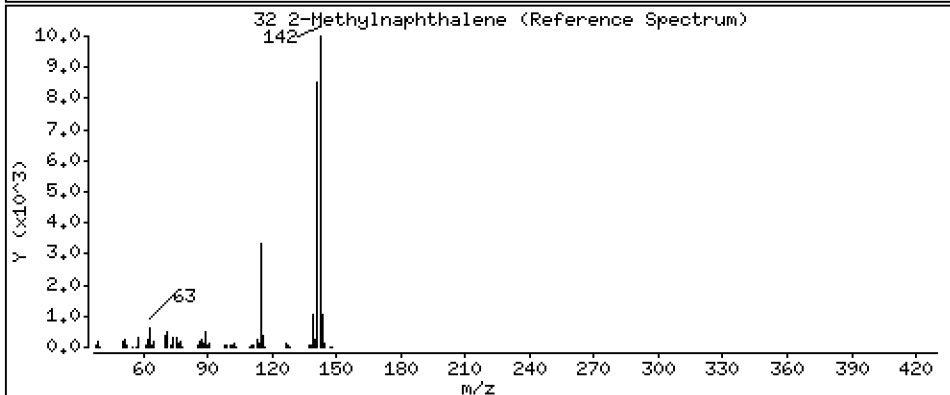
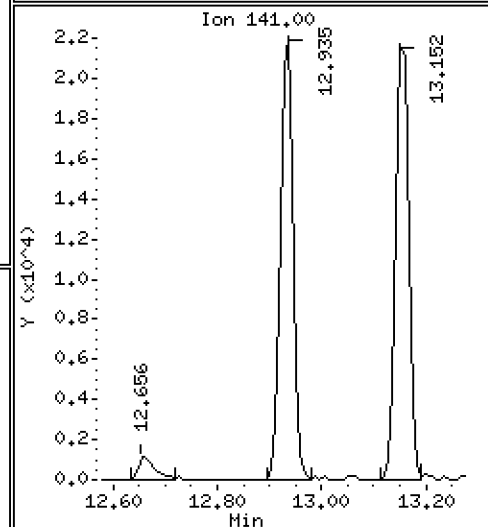
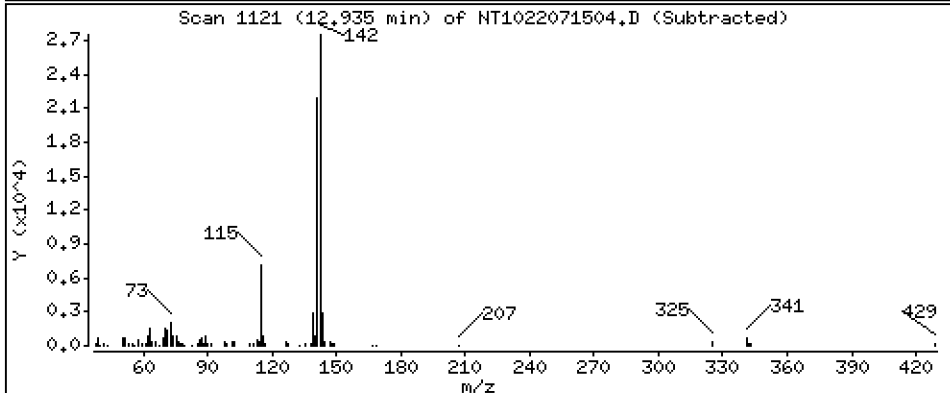
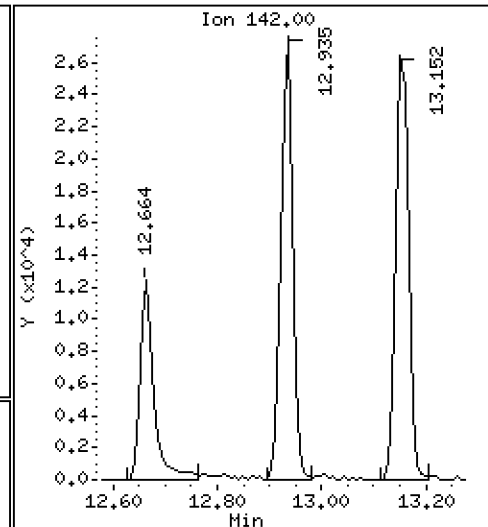
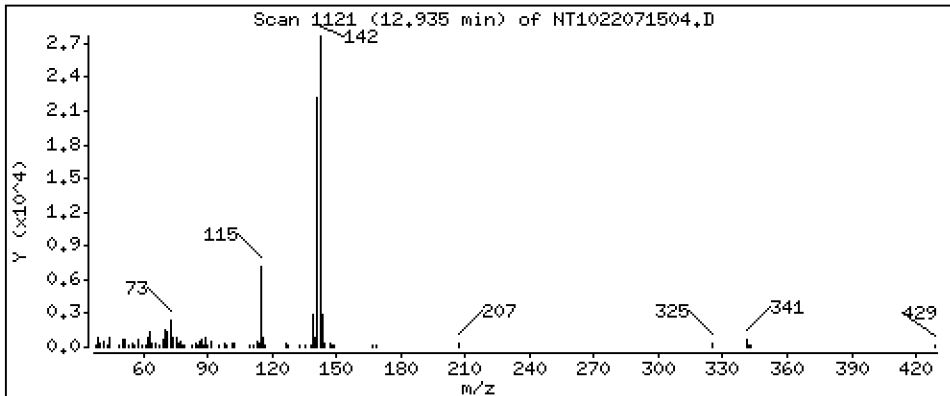
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1757 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

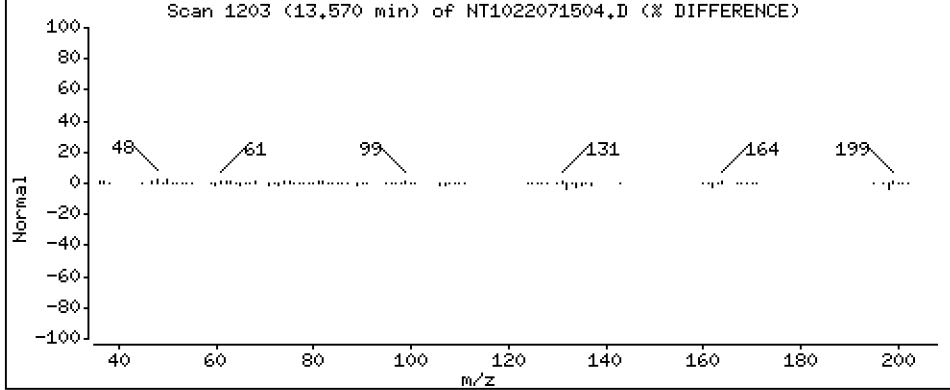
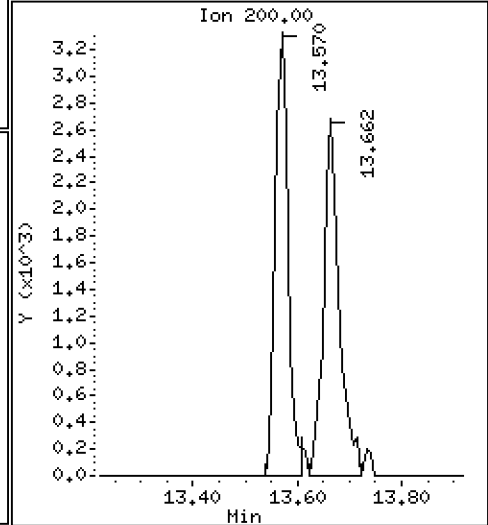
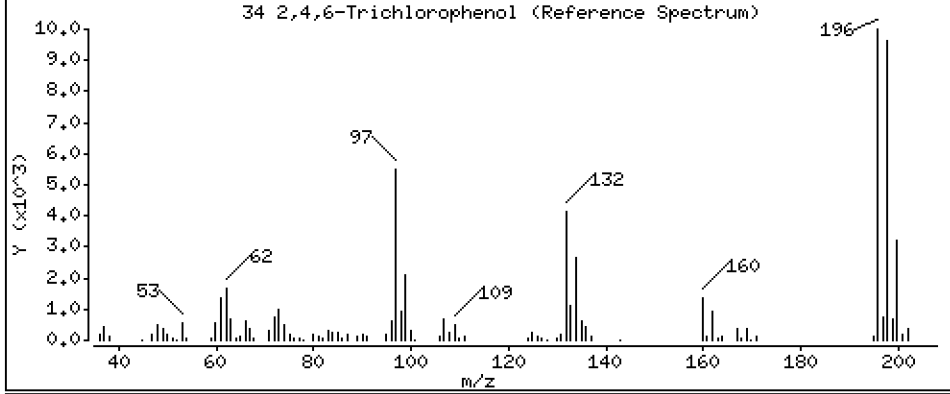
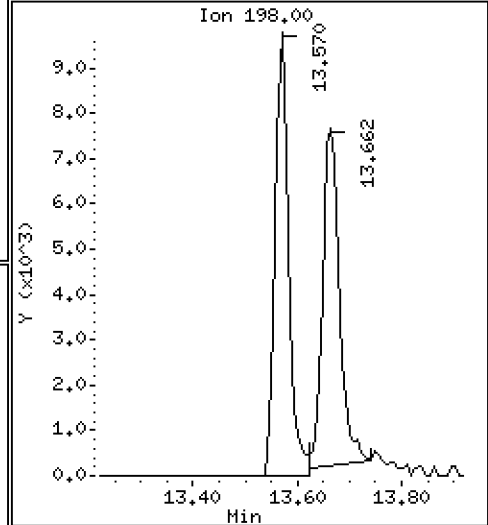
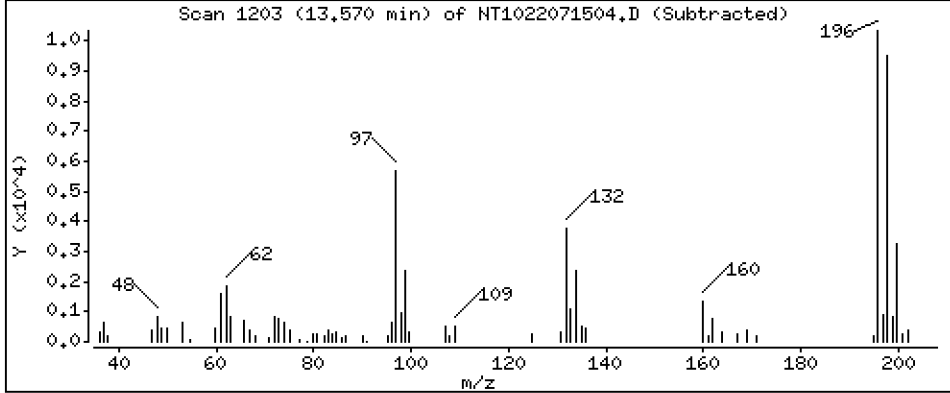
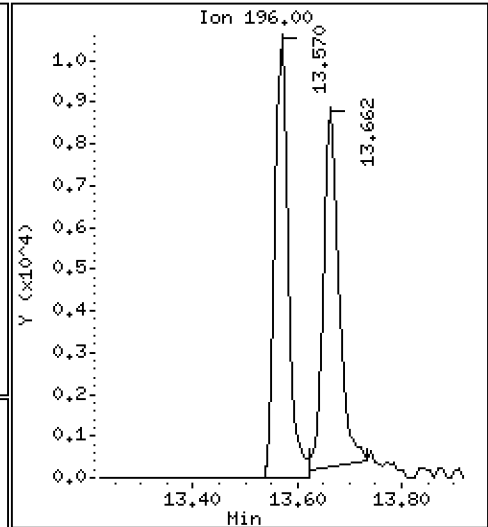
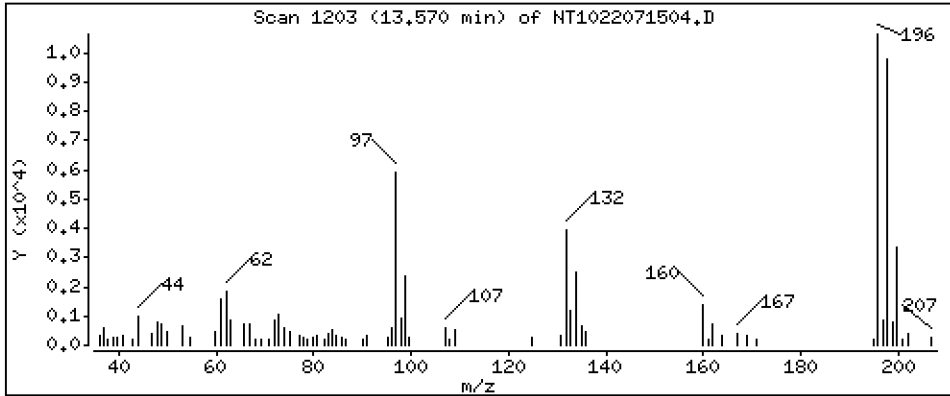
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3361 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

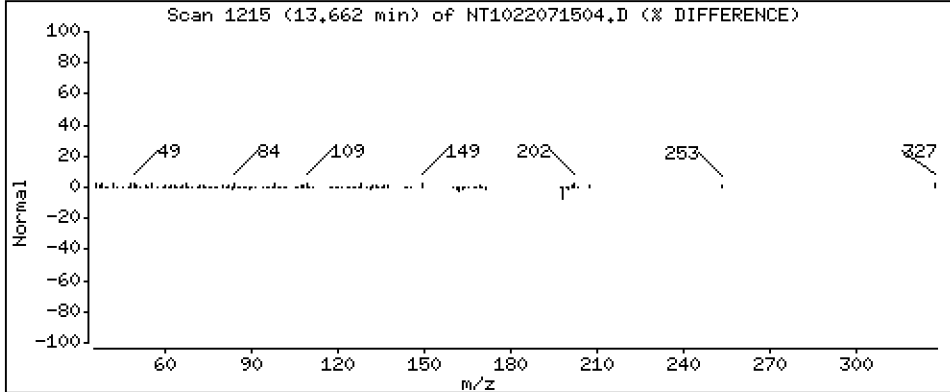
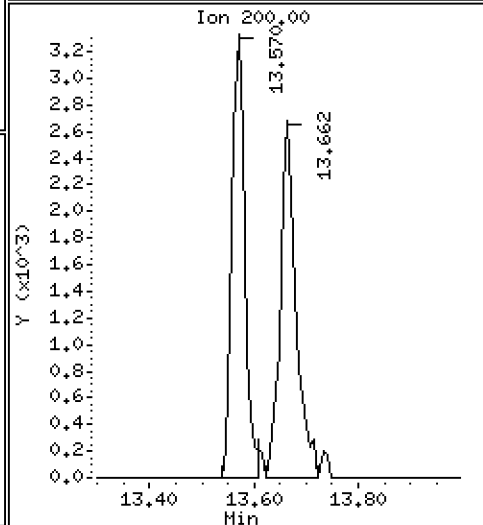
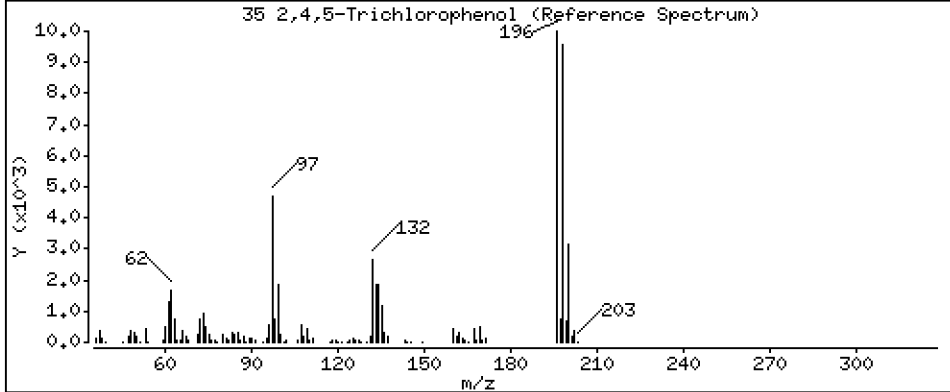
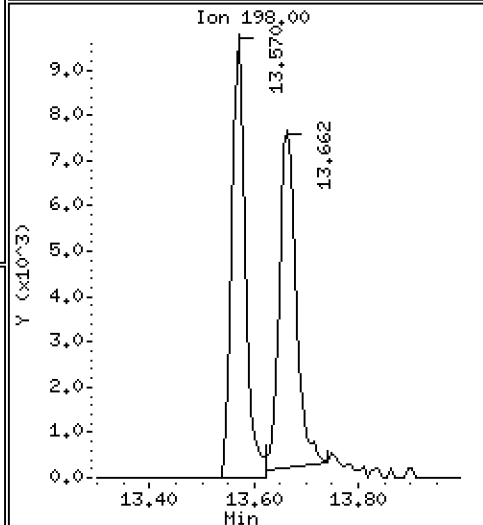
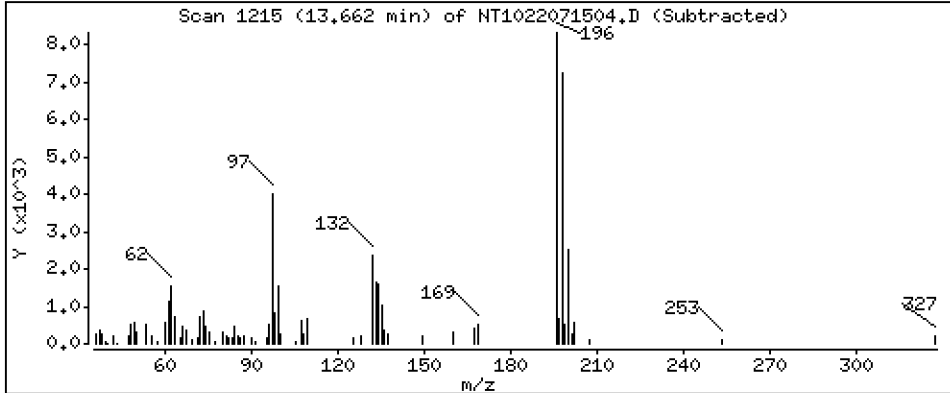
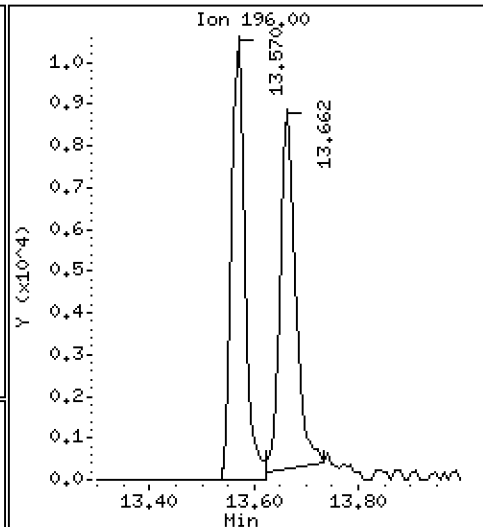
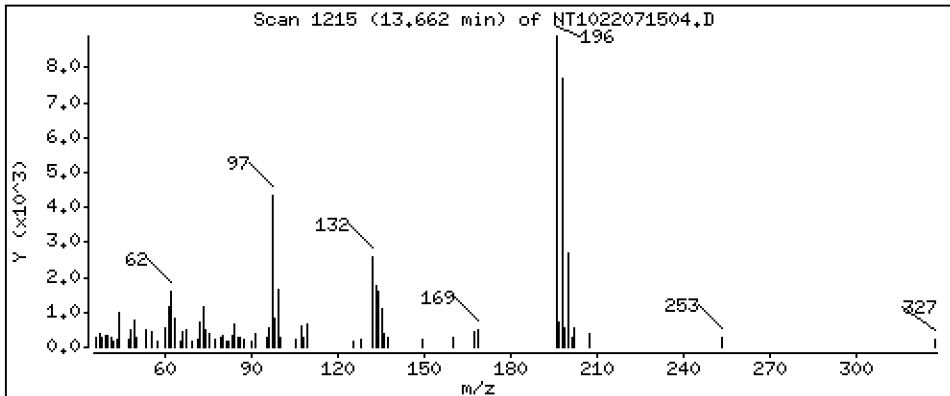
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,2790 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

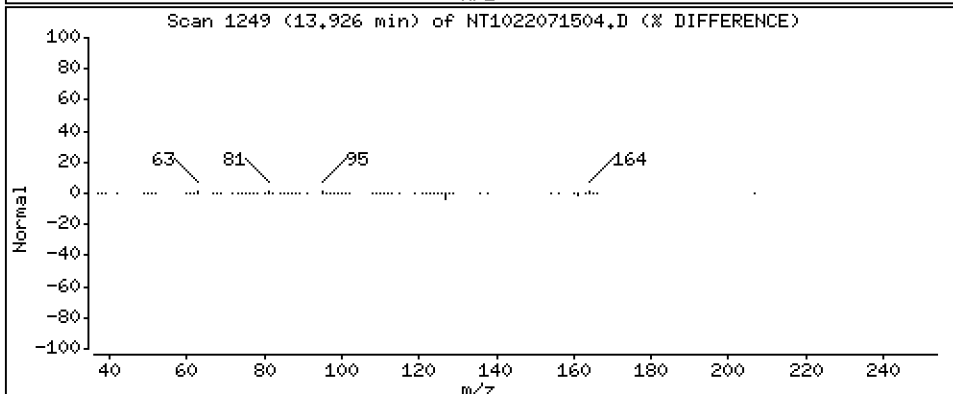
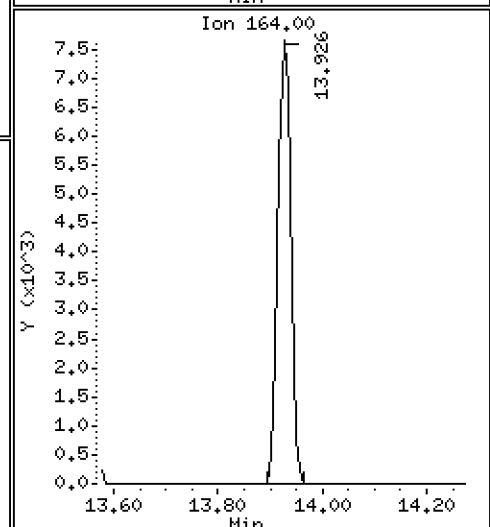
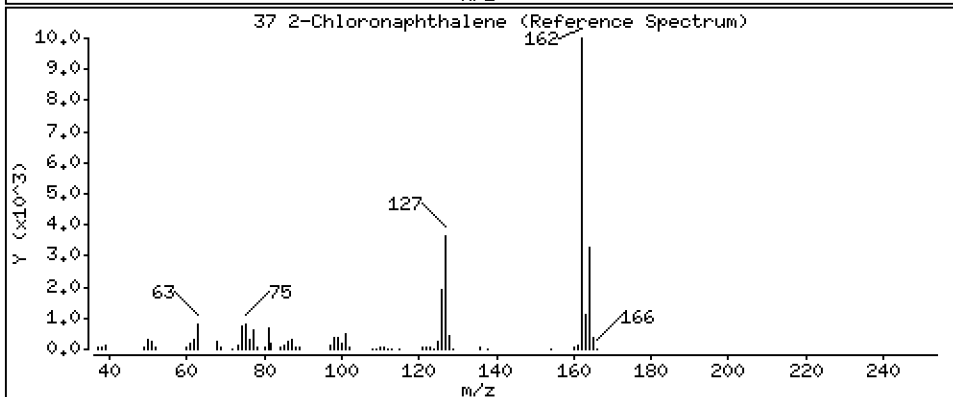
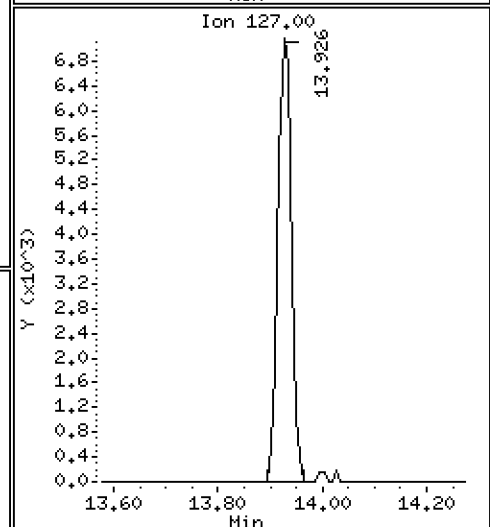
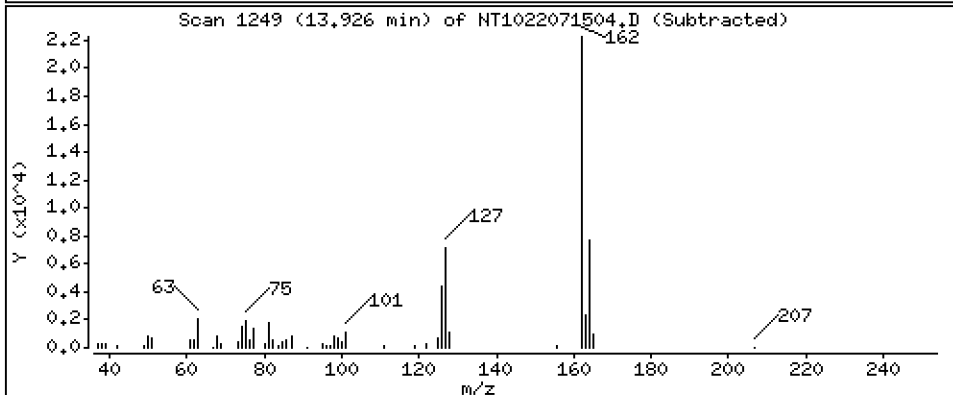
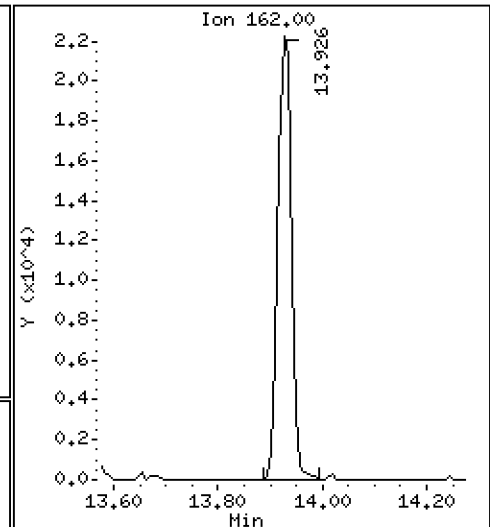
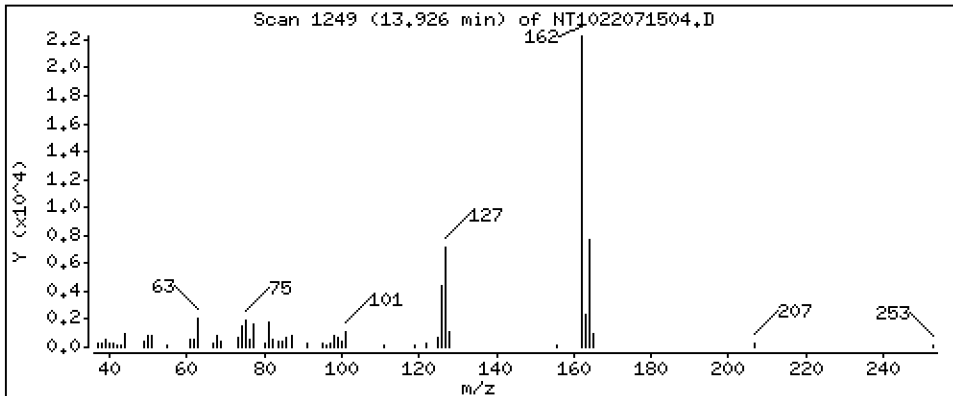
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2039 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

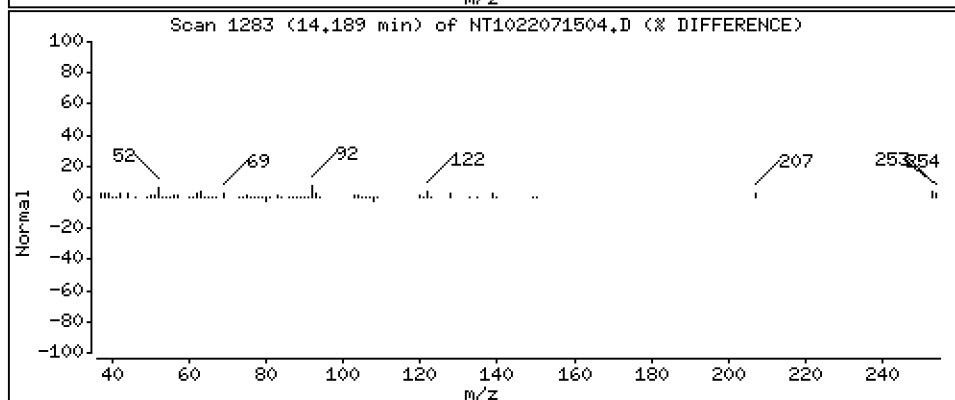
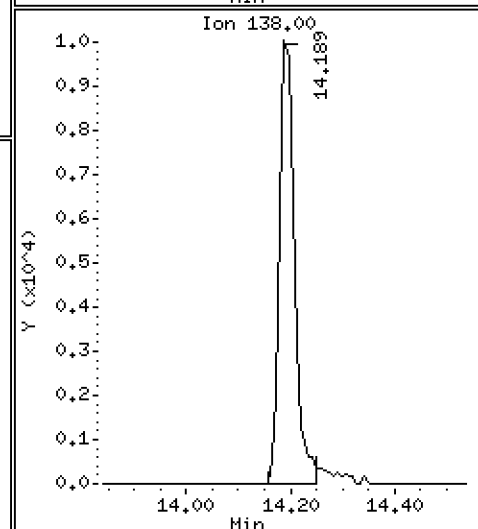
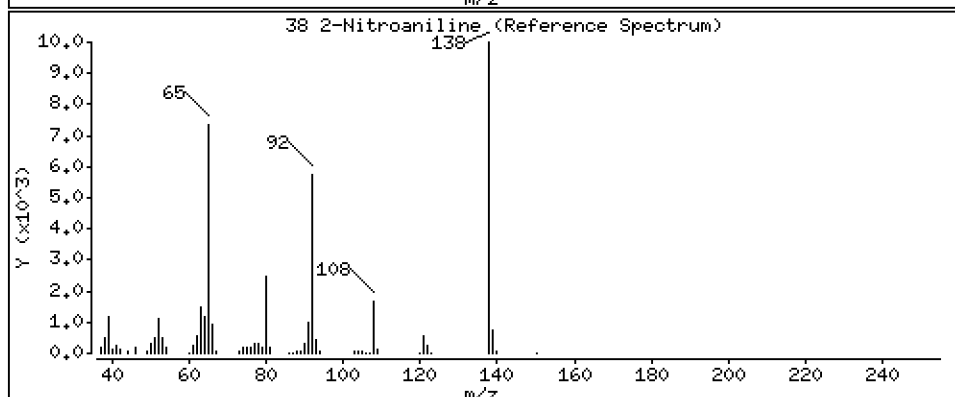
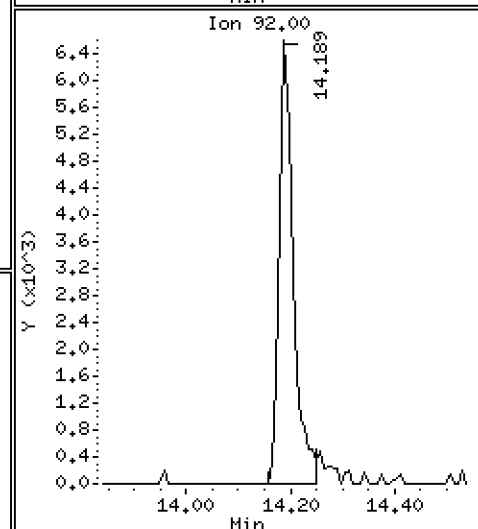
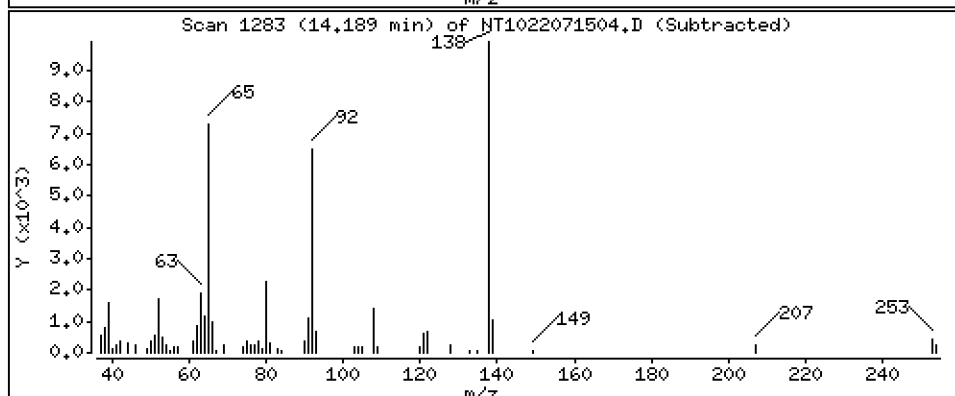
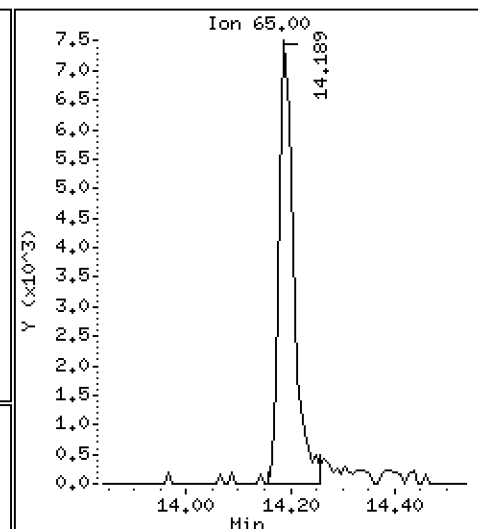
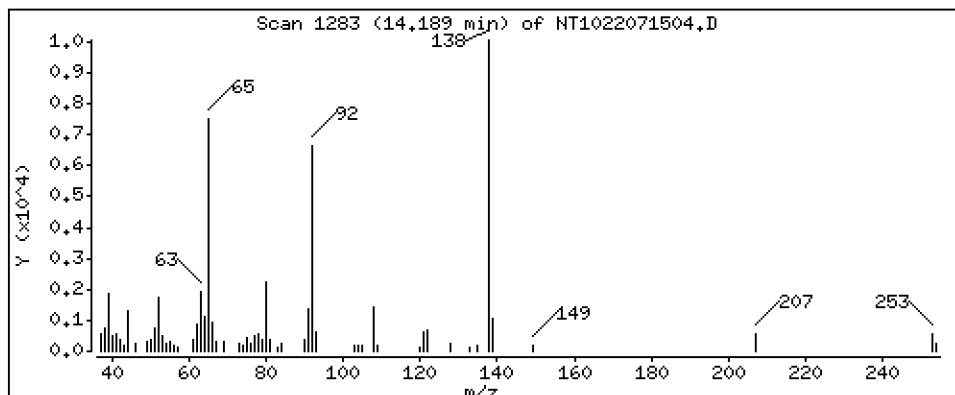
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,2809 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

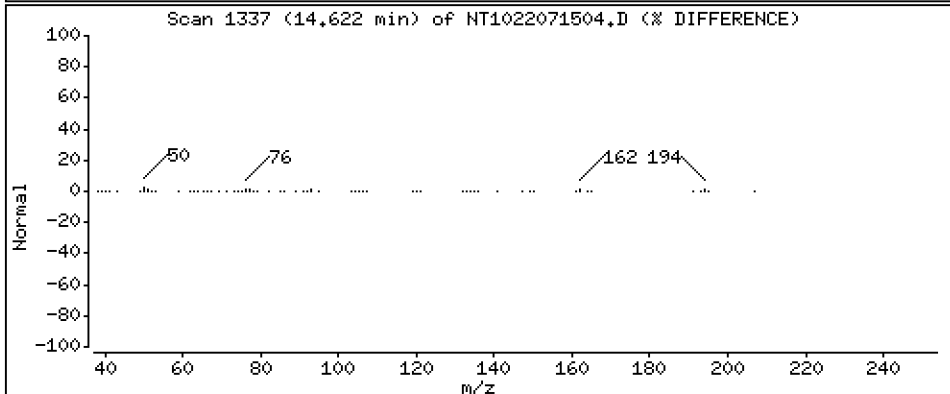
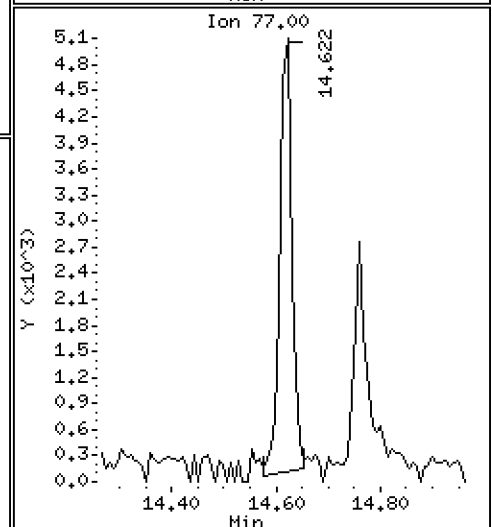
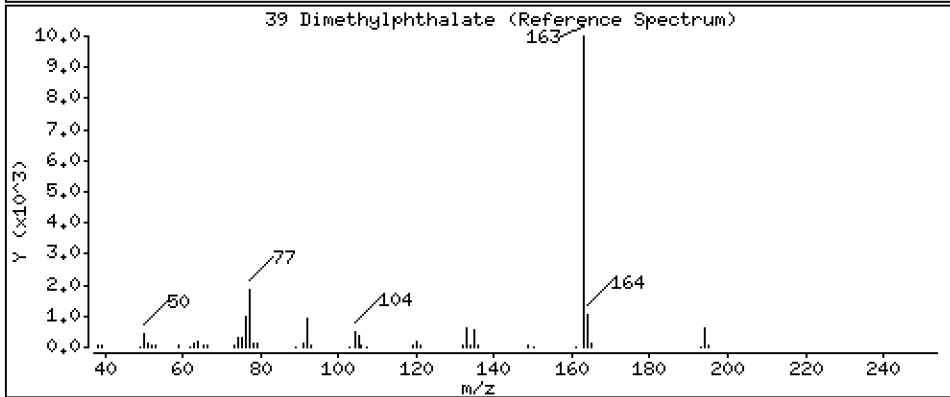
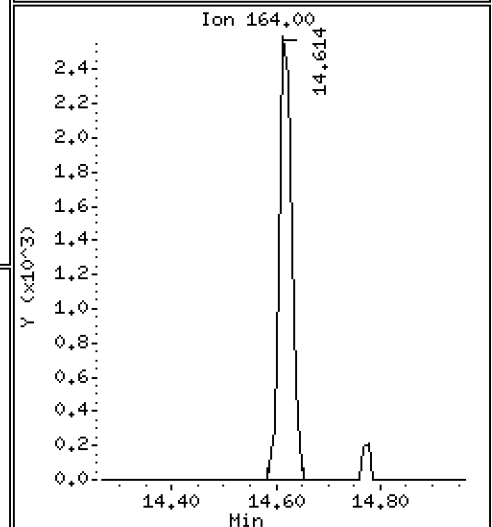
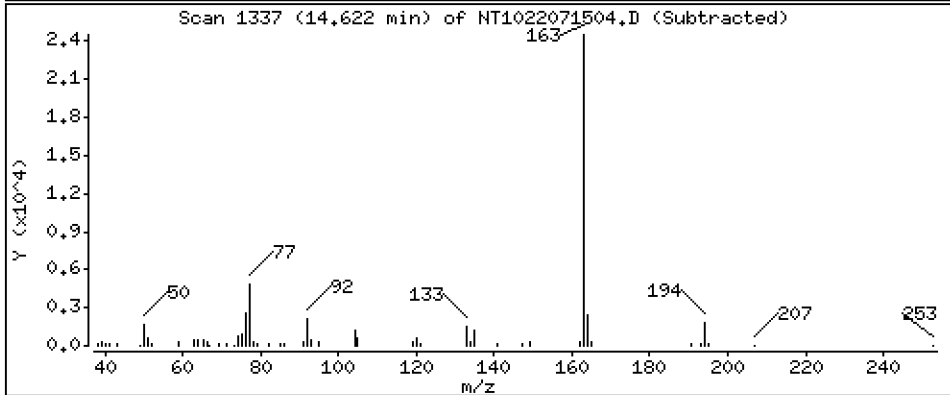
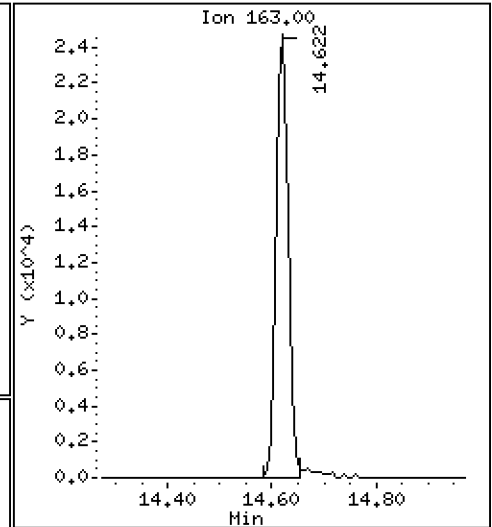
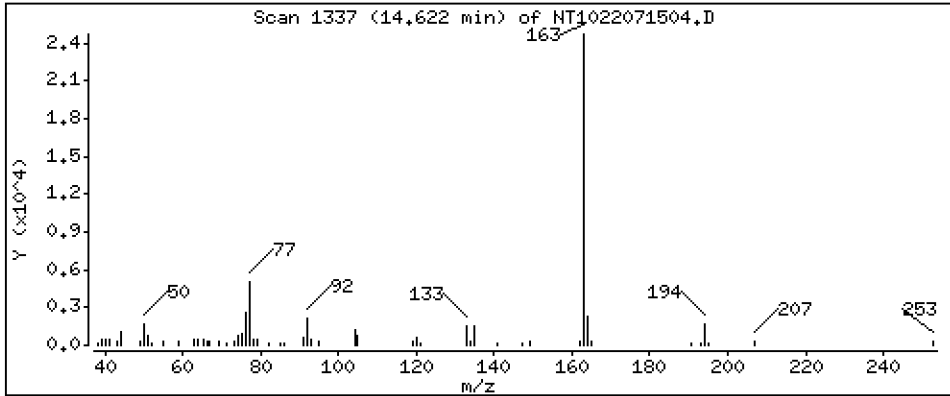
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2274 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

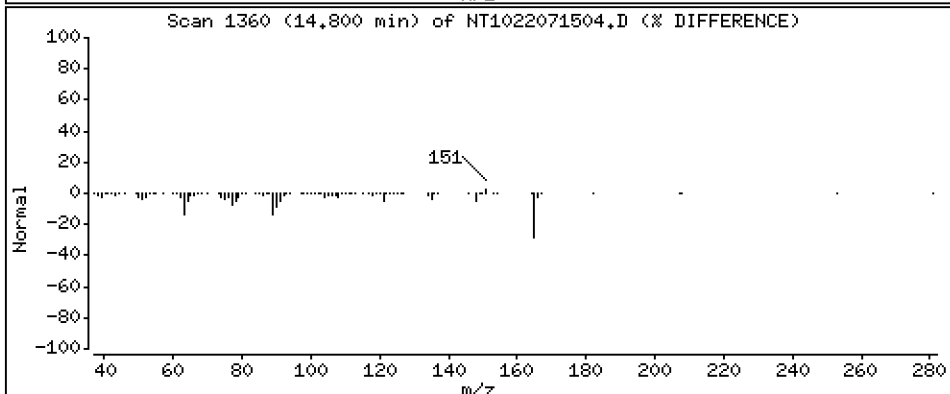
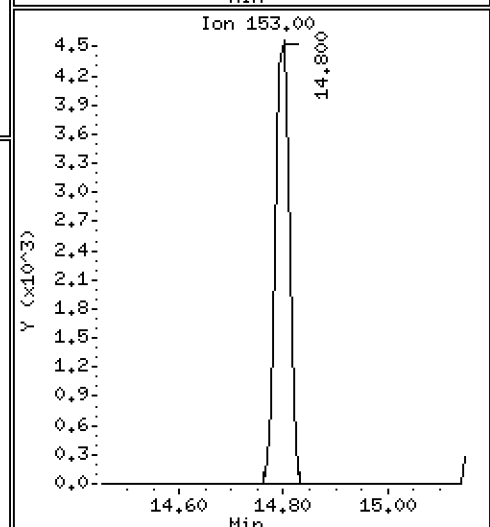
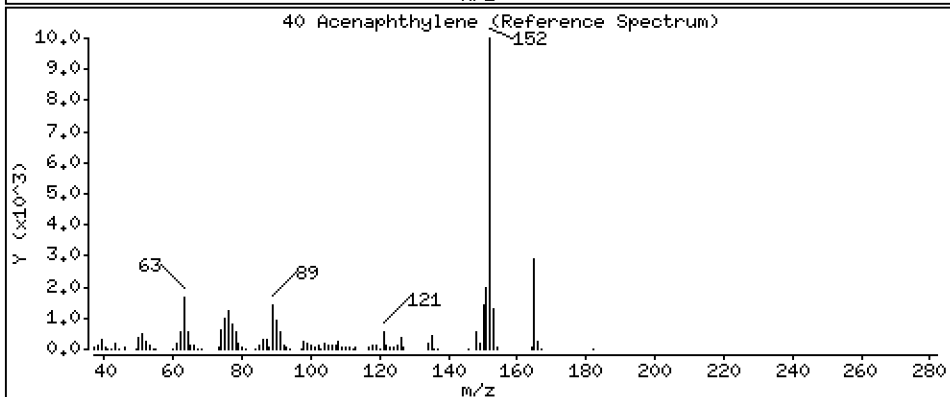
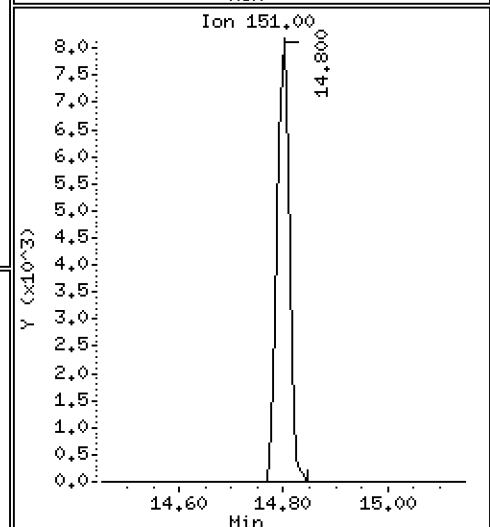
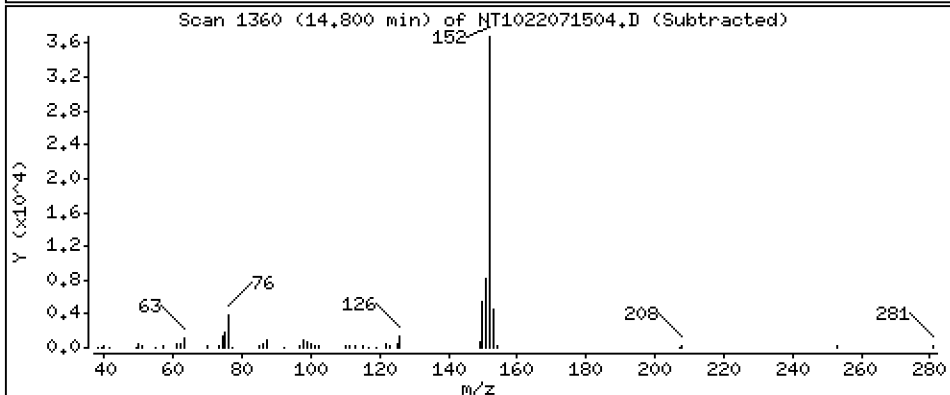
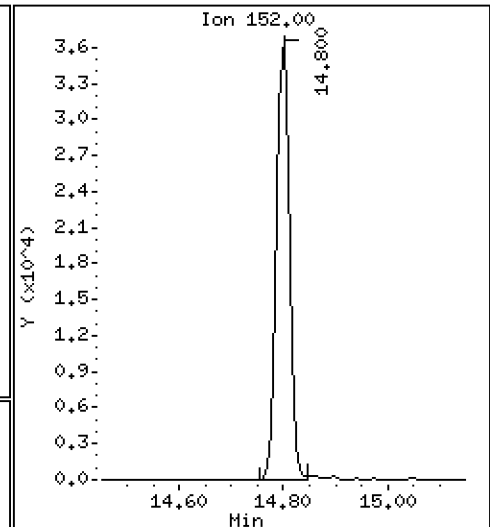
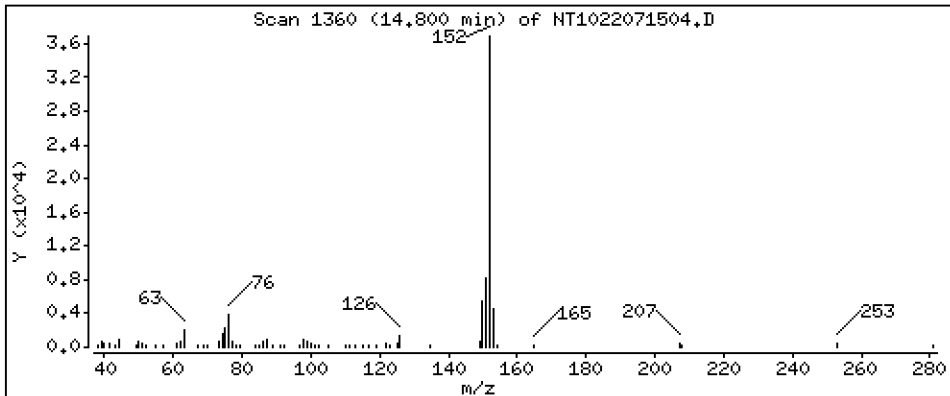
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2163 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

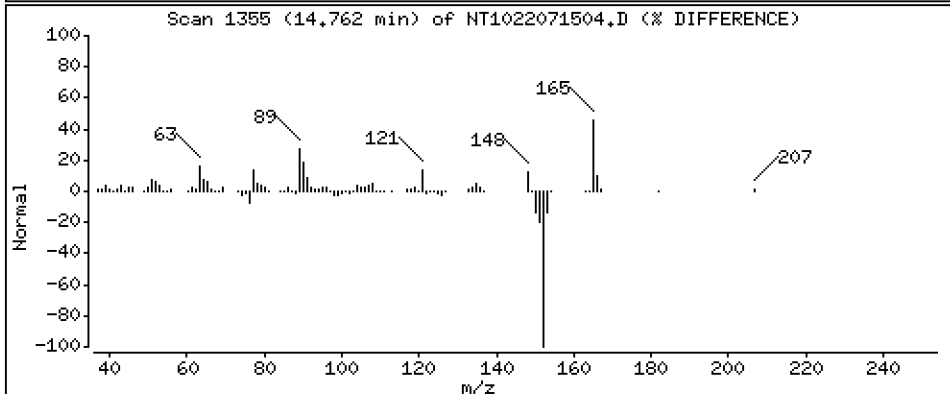
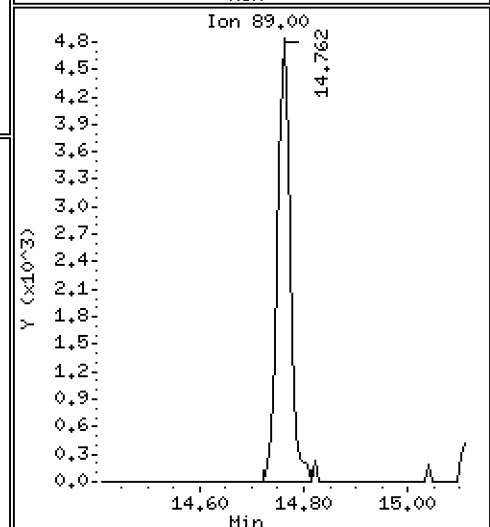
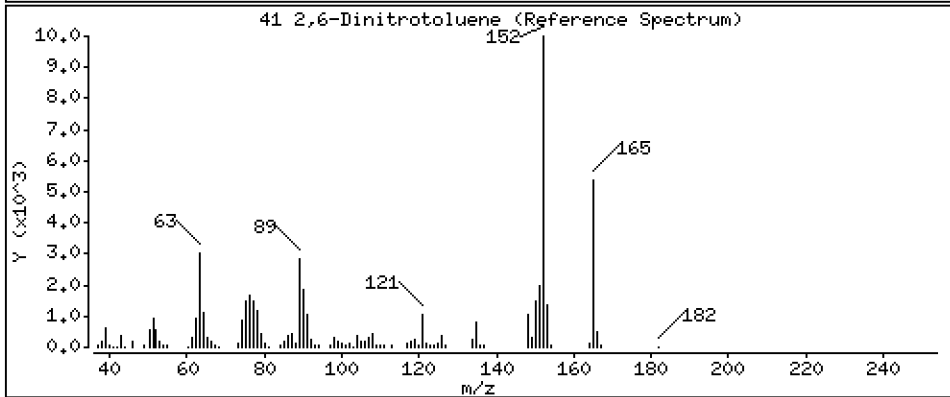
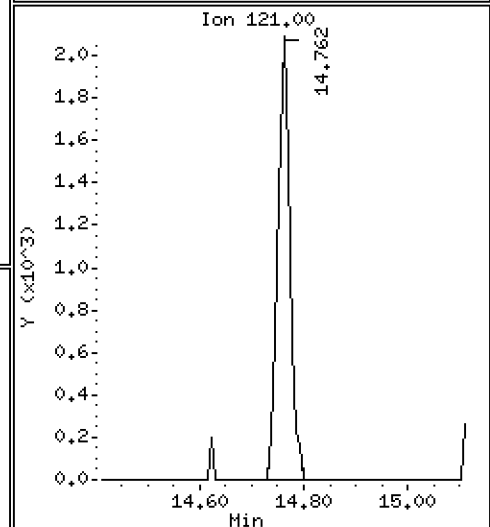
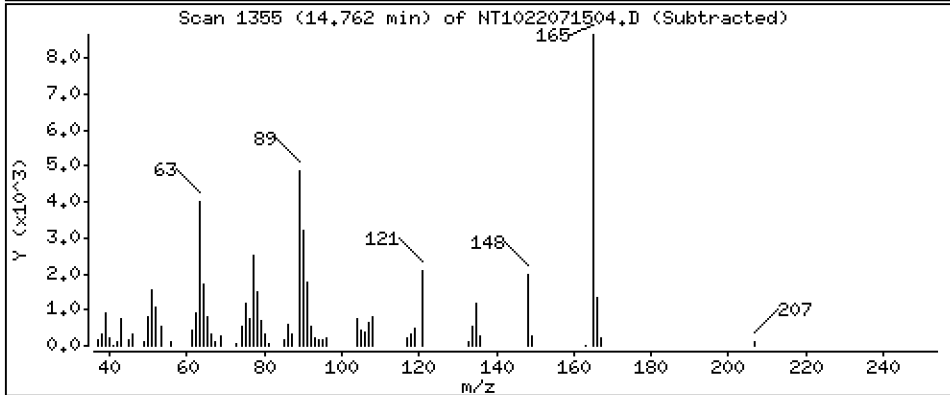
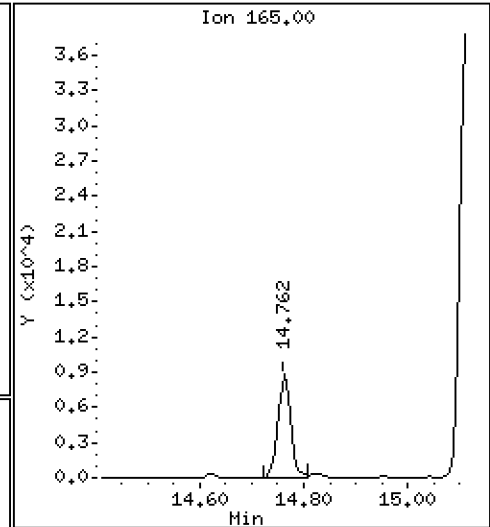
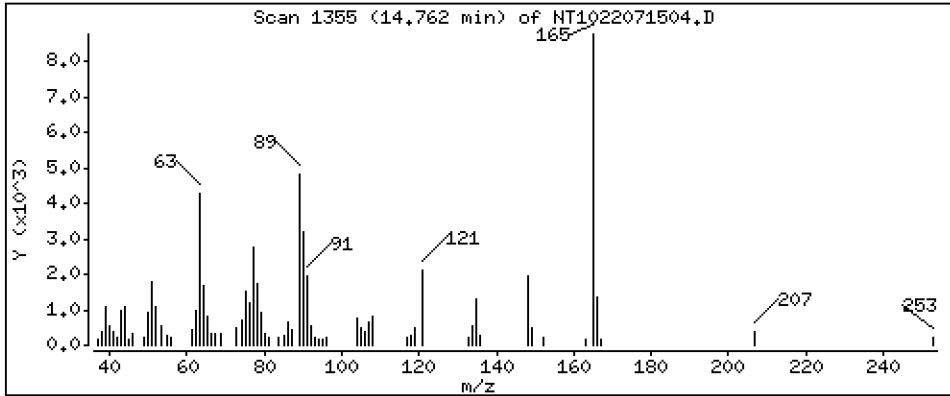
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3661 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

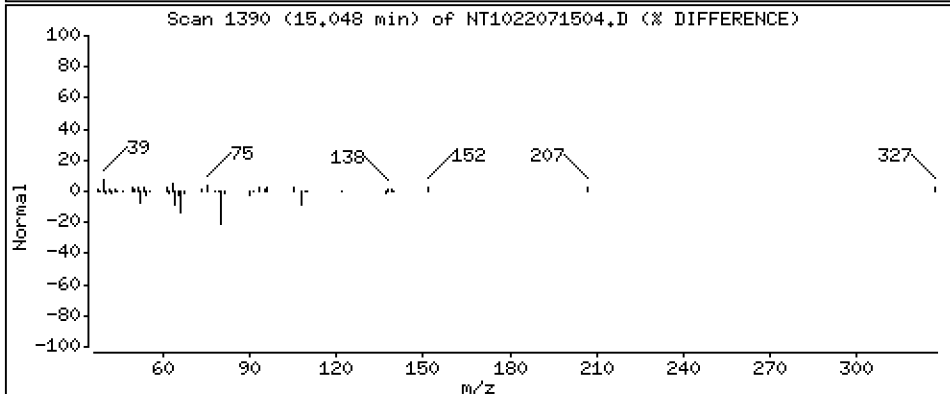
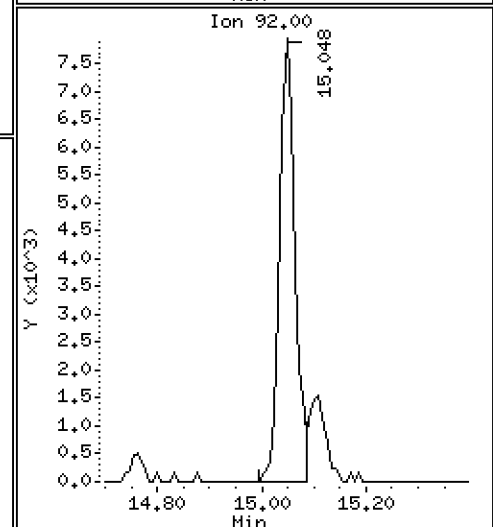
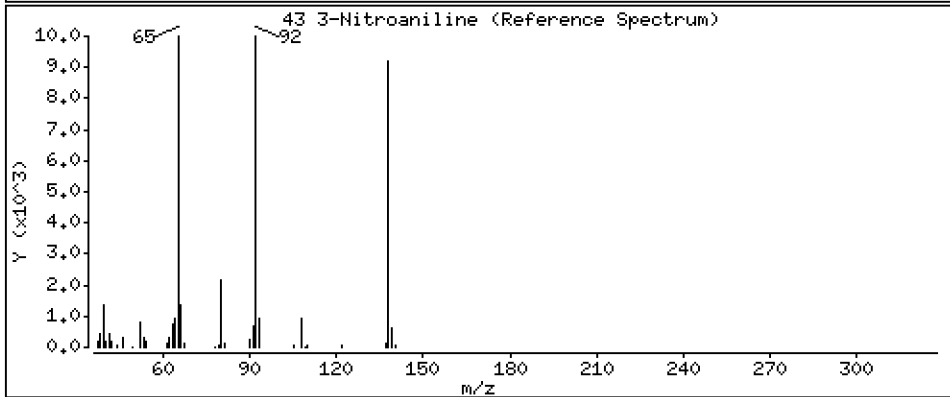
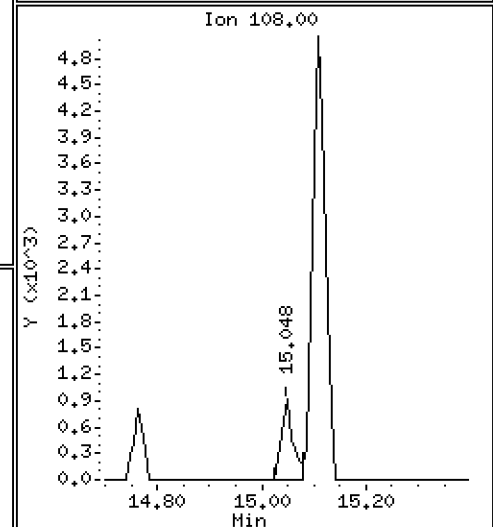
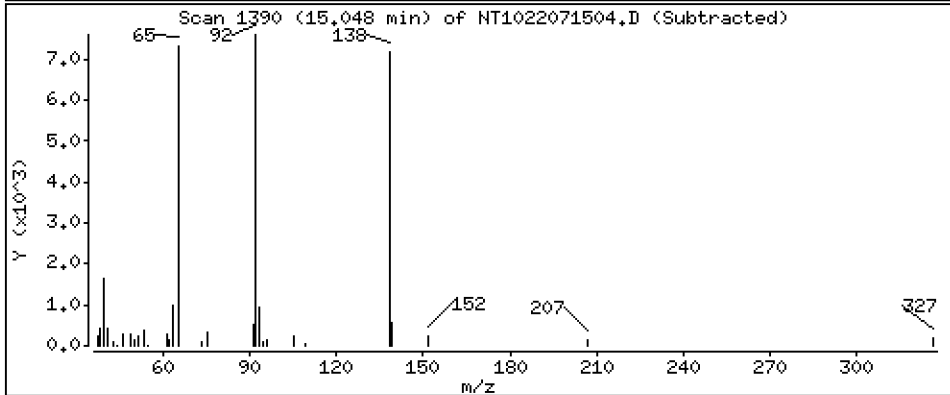
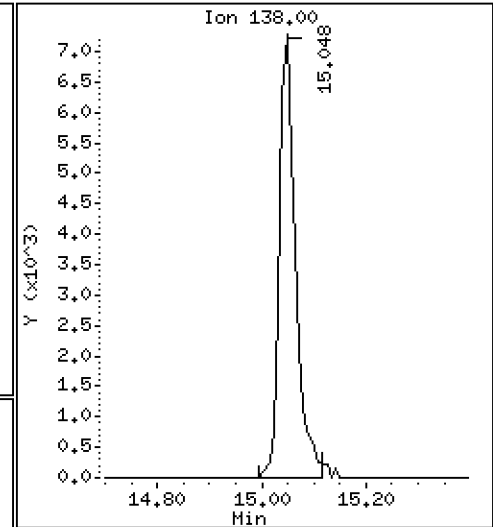
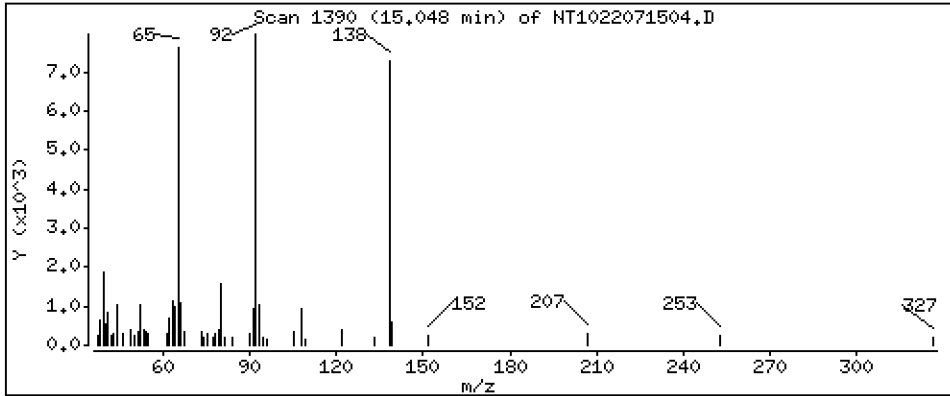
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,3752 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

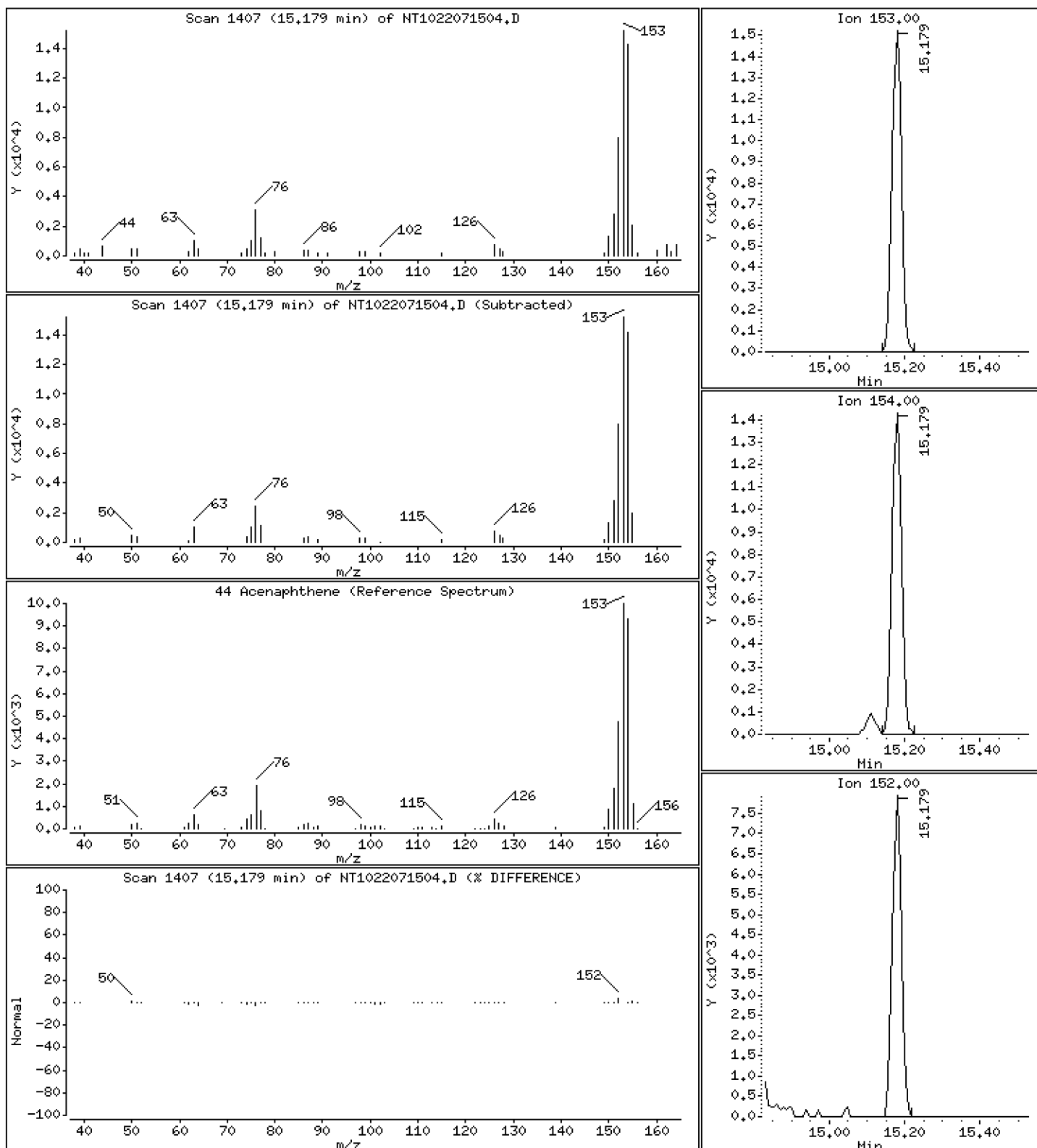
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,1825 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

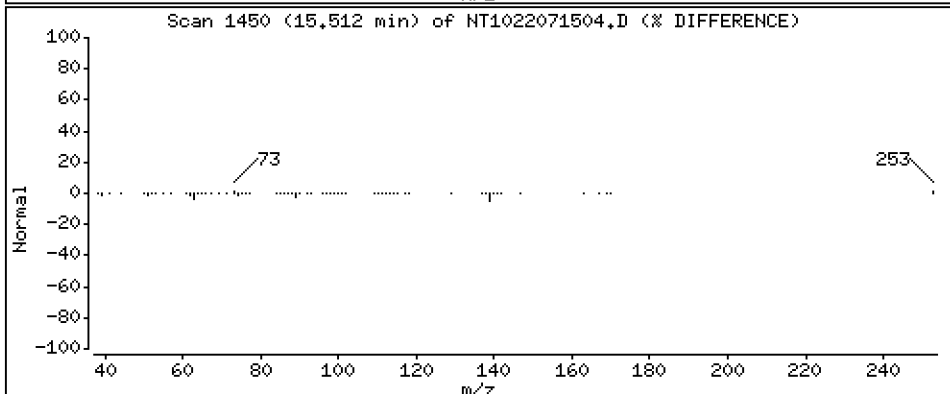
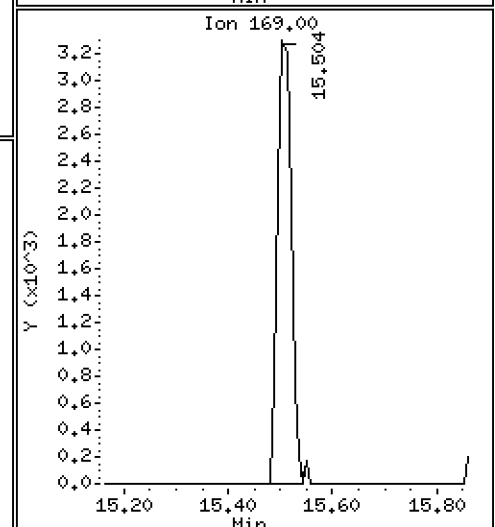
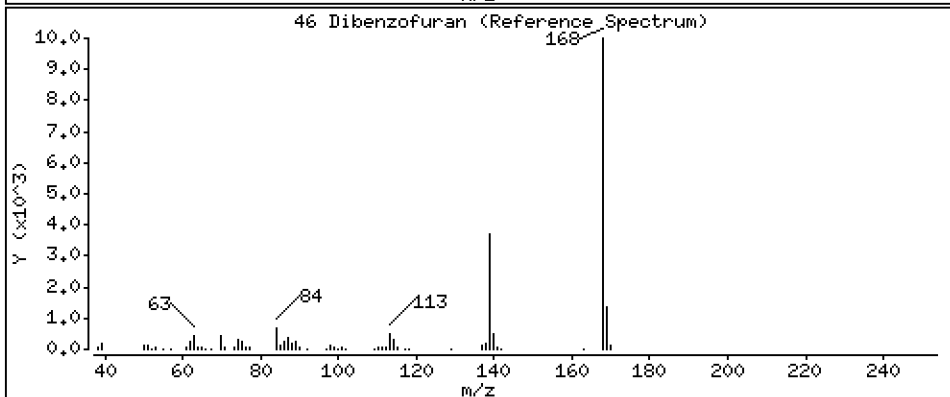
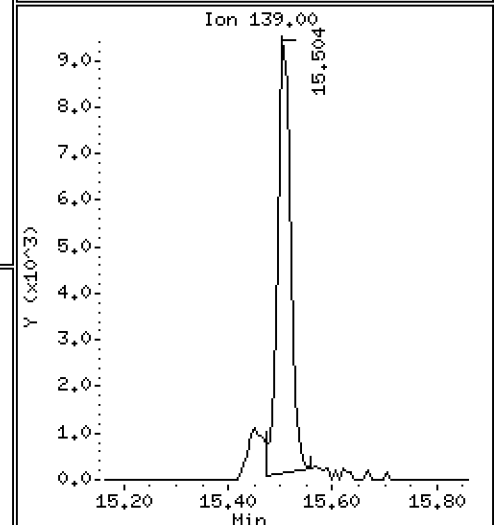
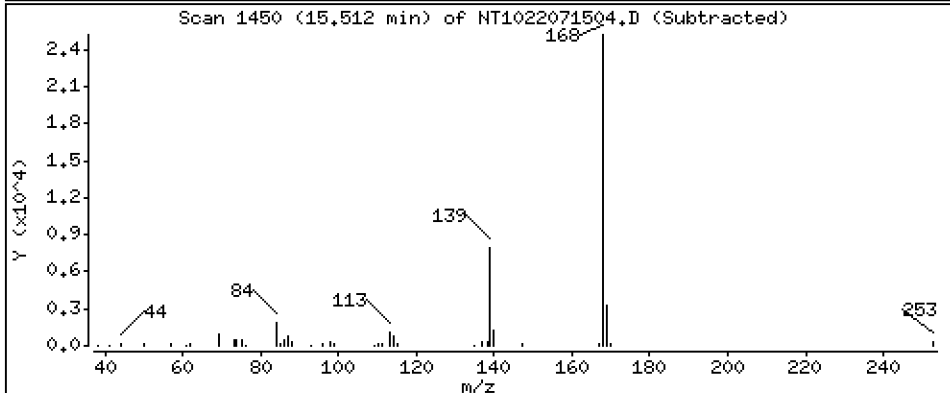
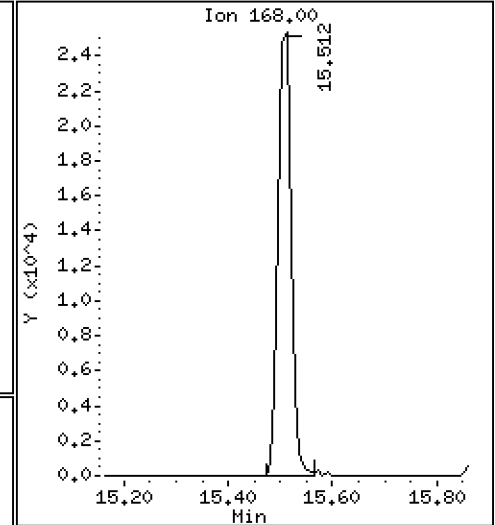
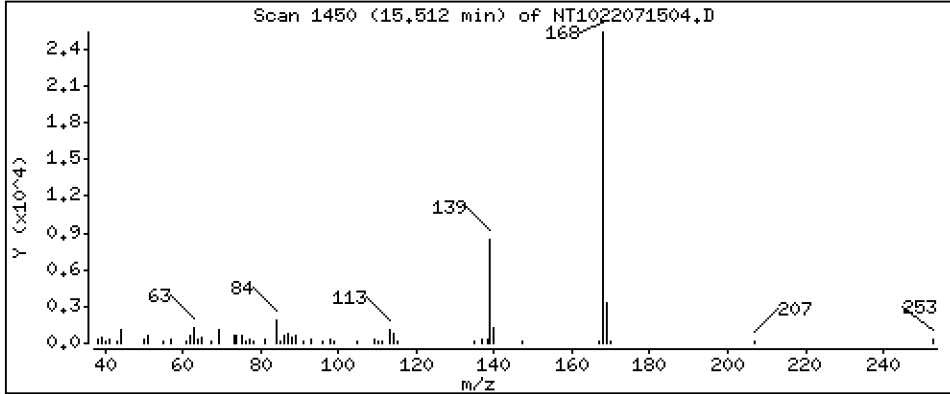
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1922 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

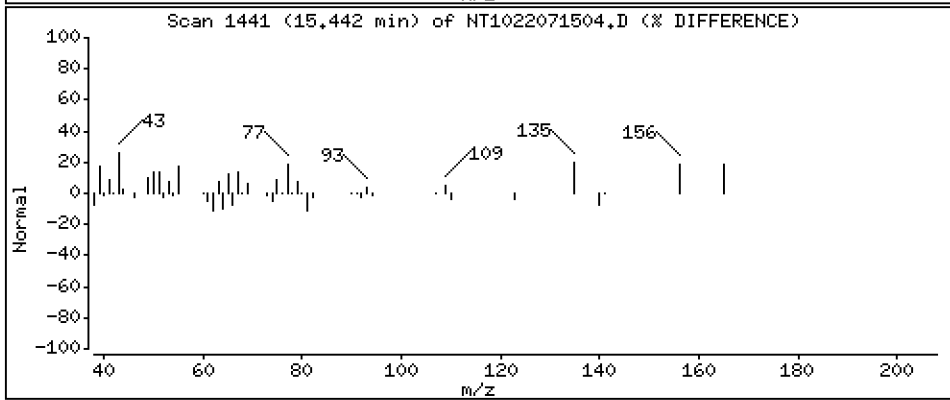
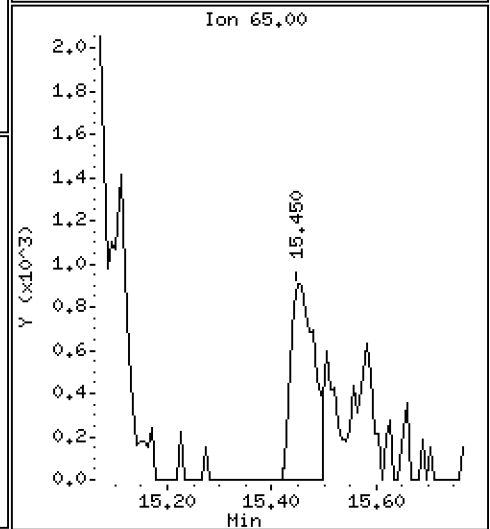
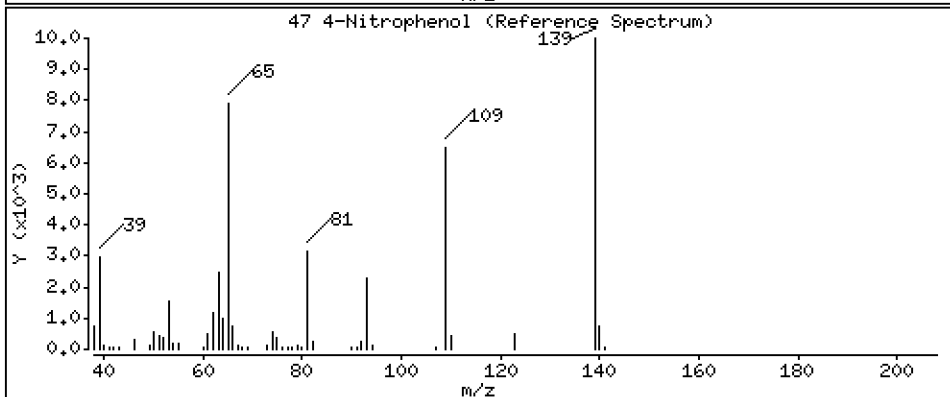
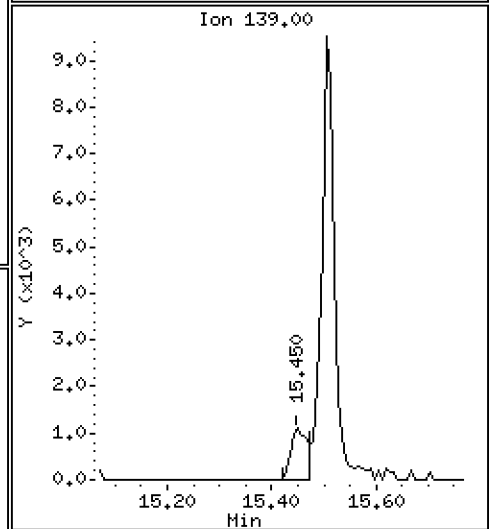
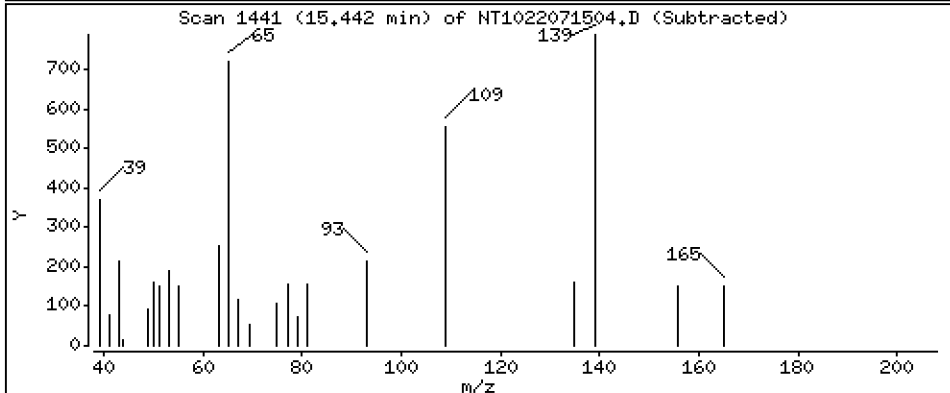
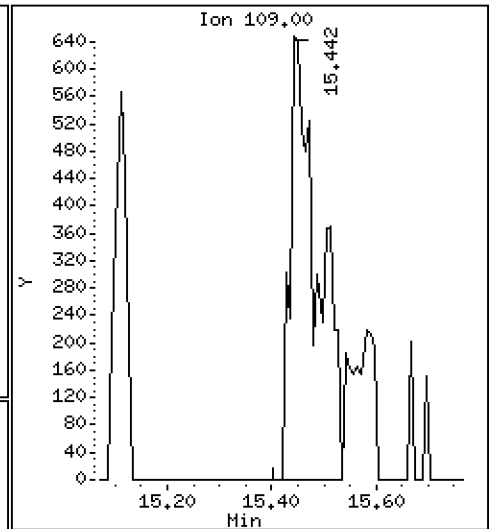
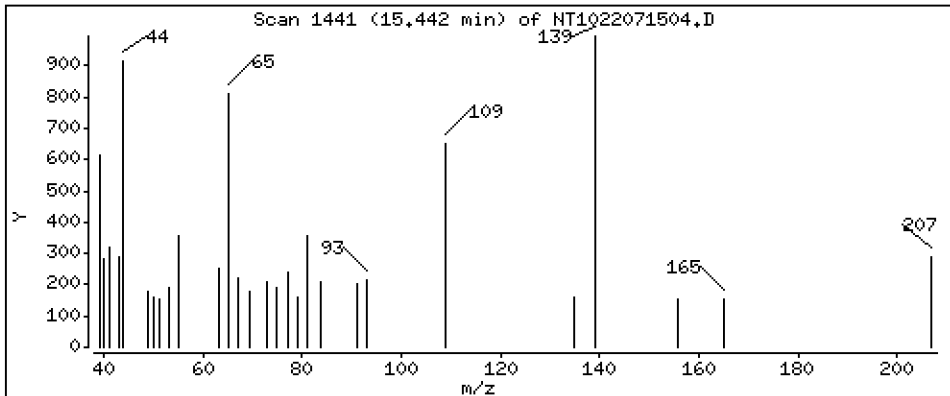
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,1636 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

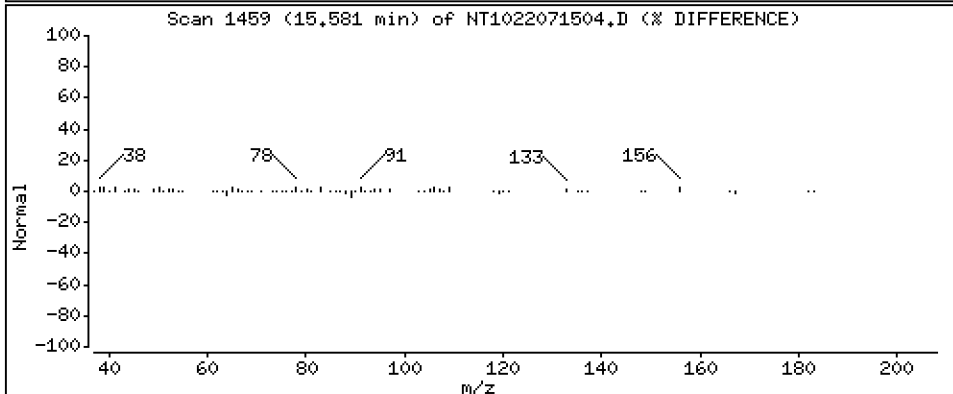
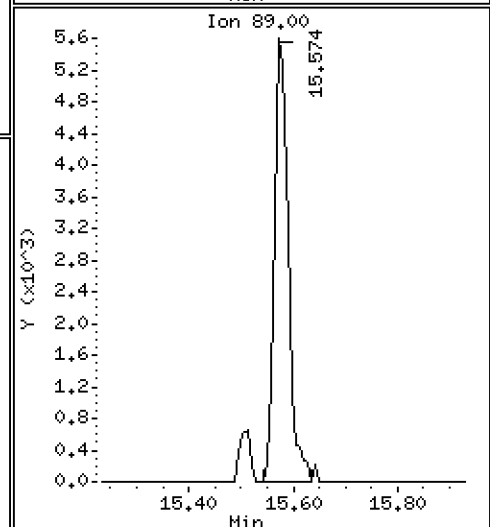
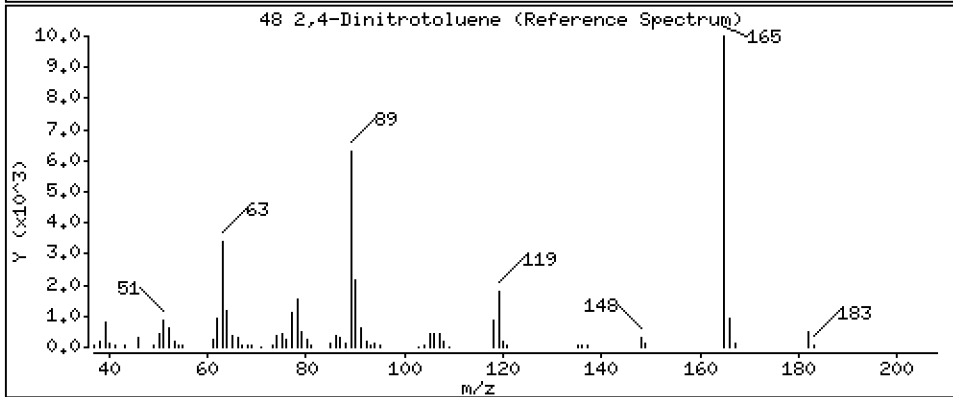
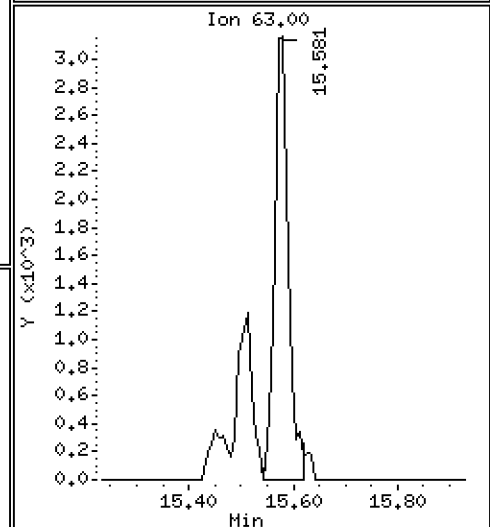
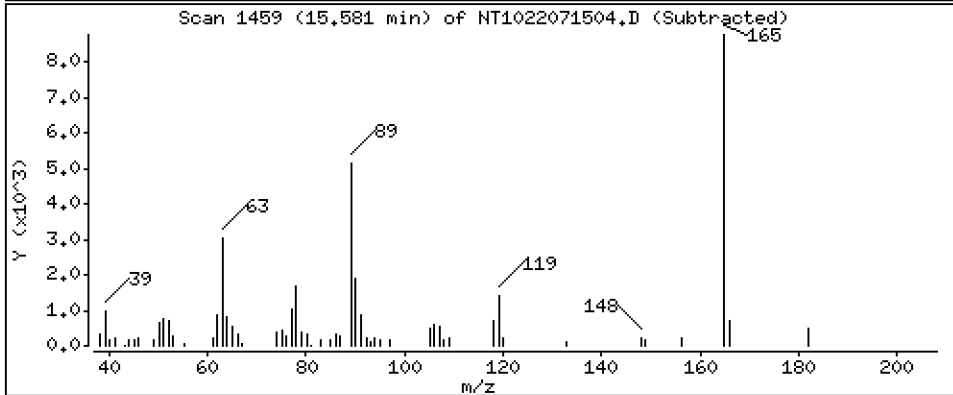
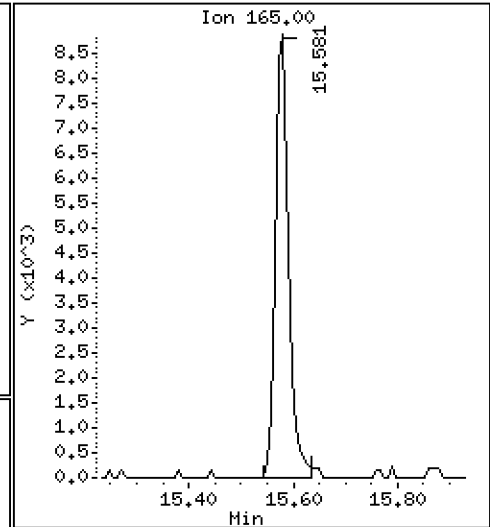
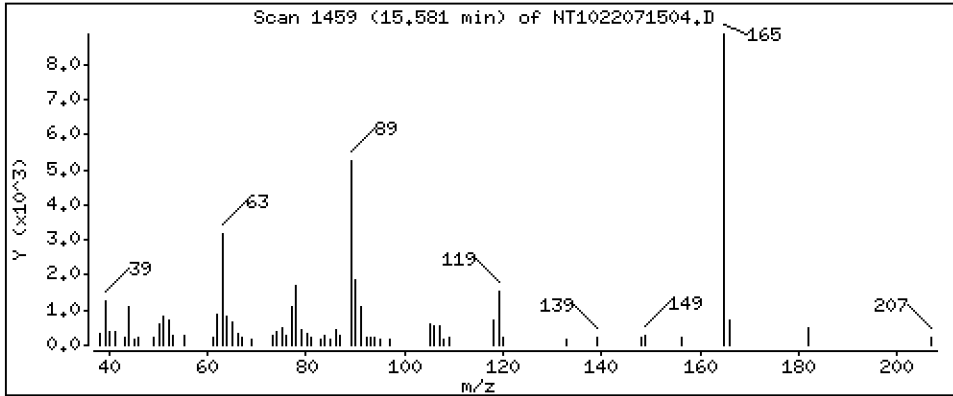
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,2873 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

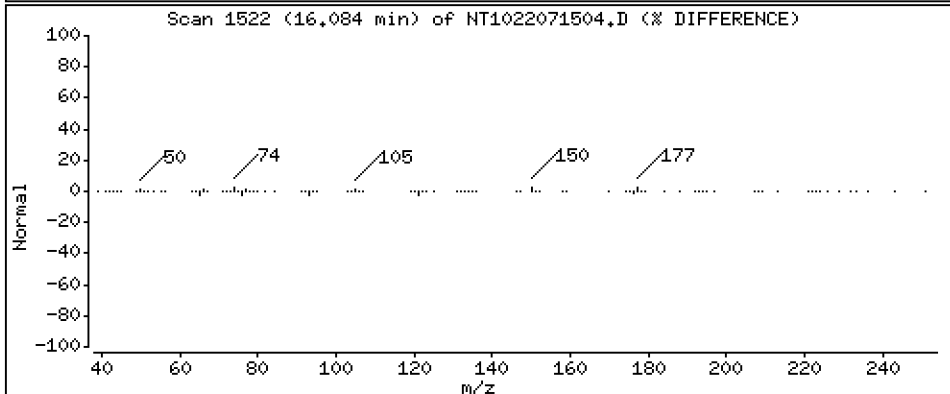
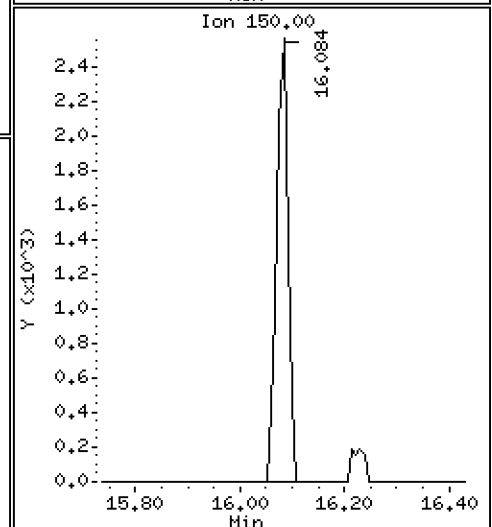
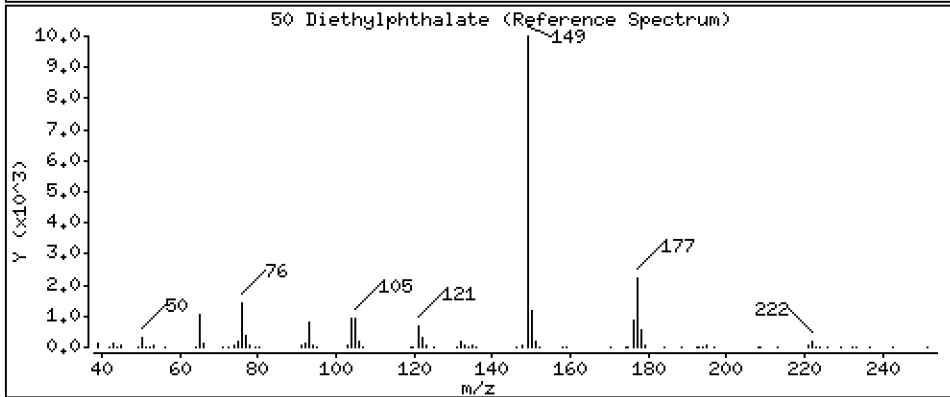
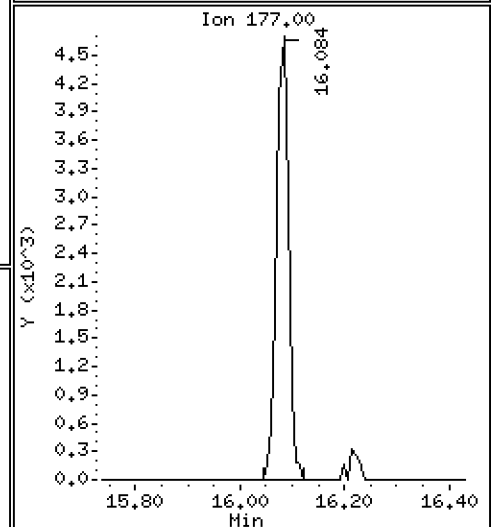
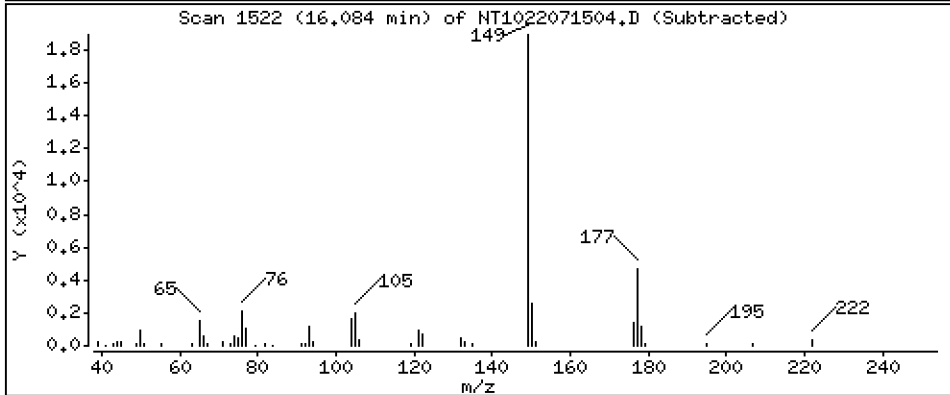
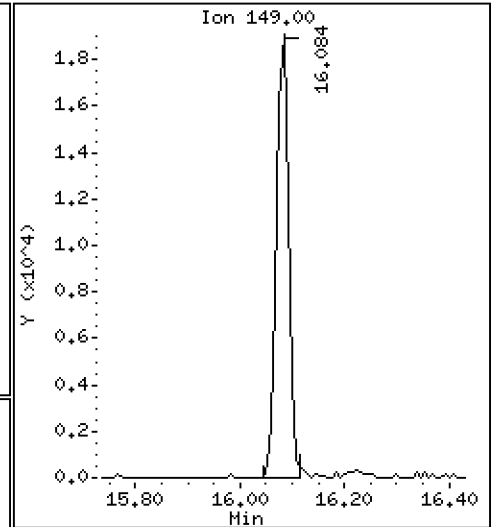
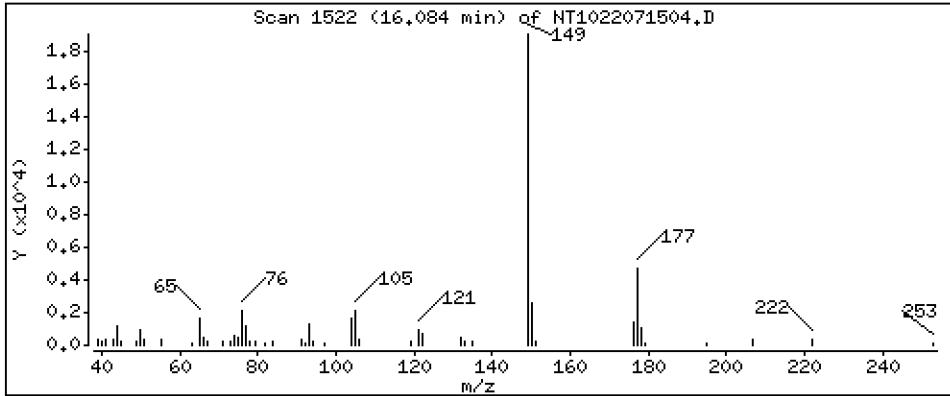
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2056 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

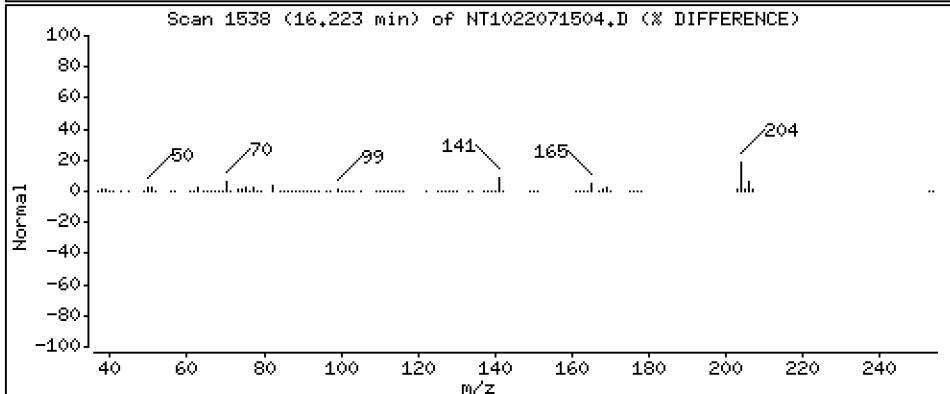
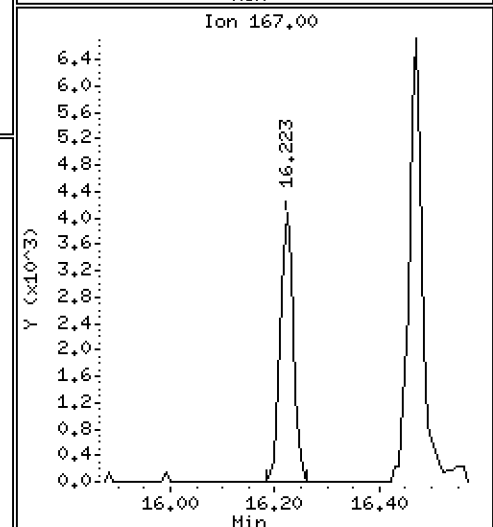
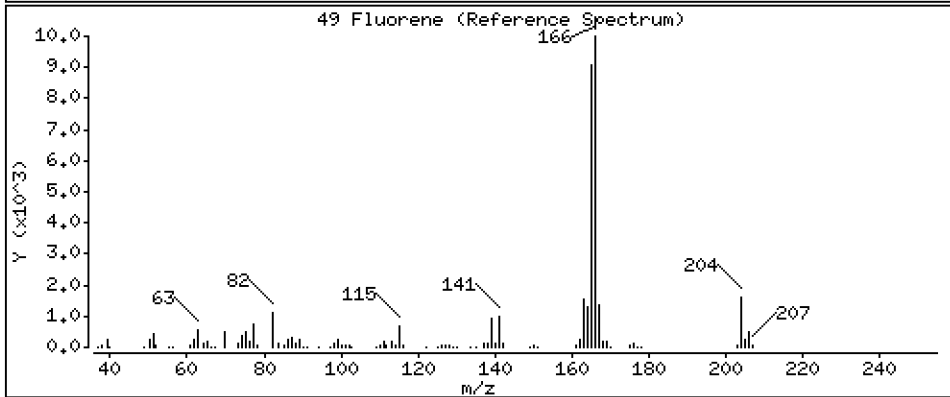
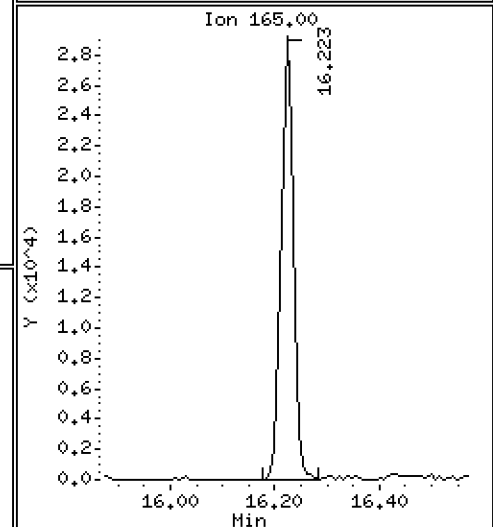
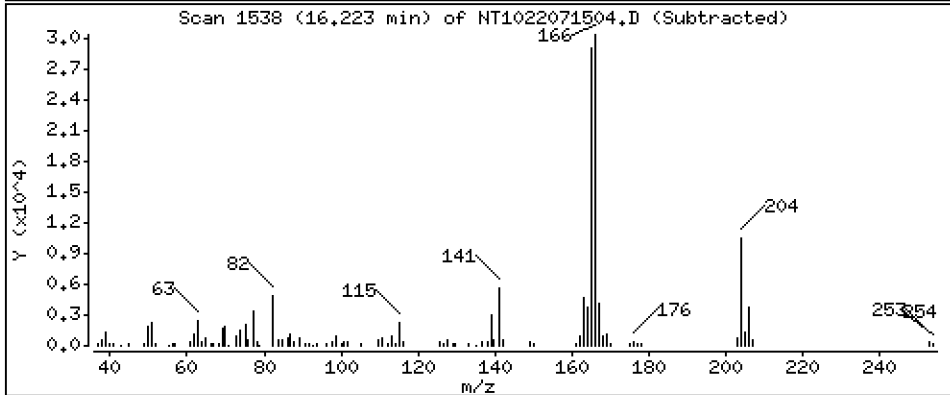
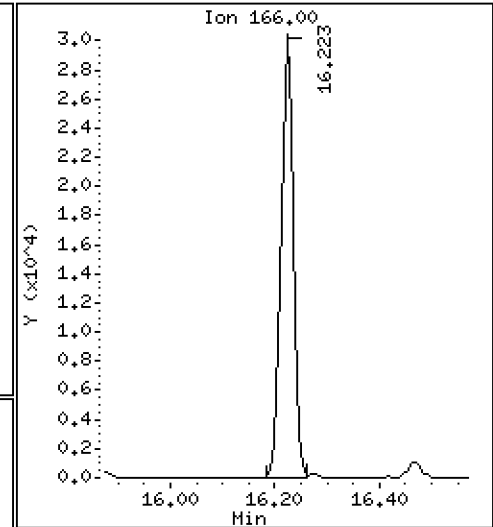
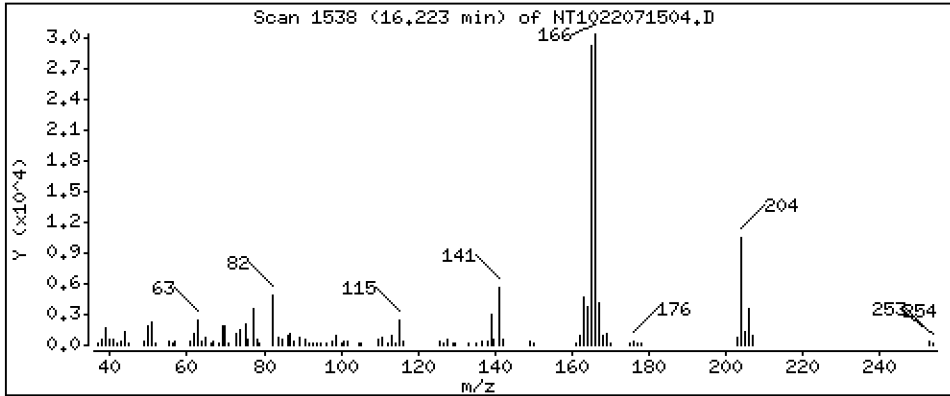
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,1840 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

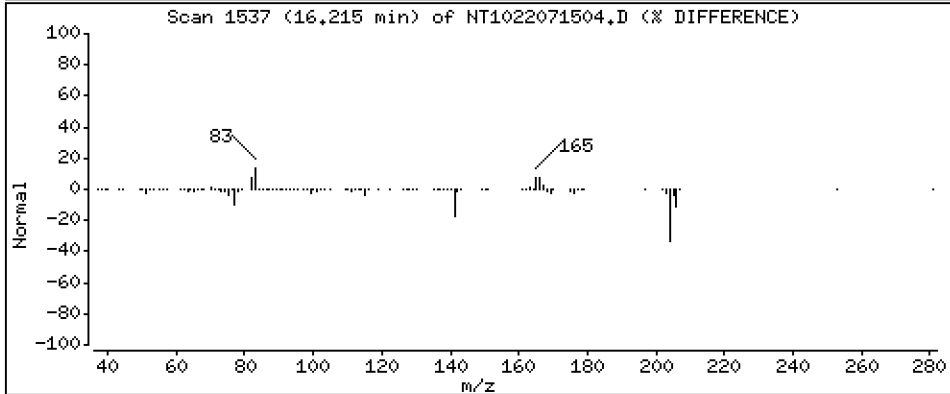
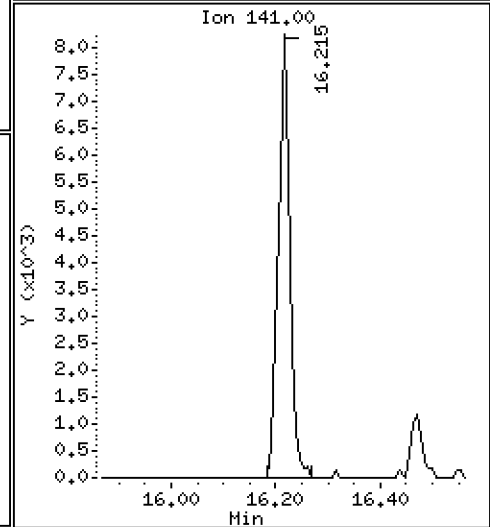
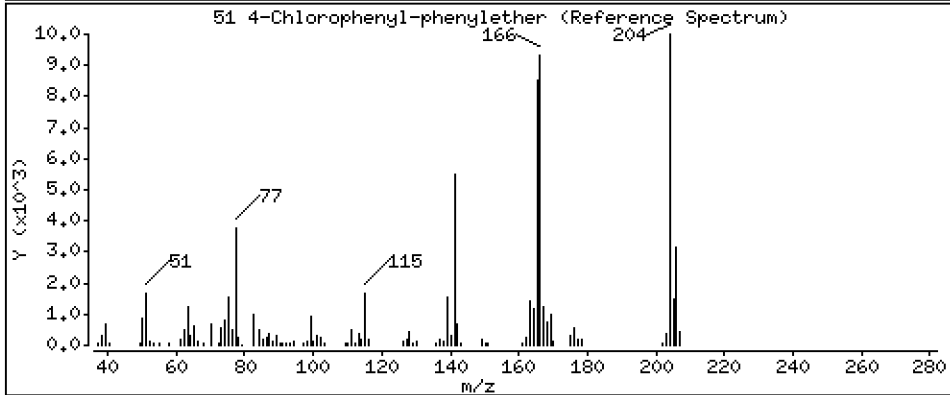
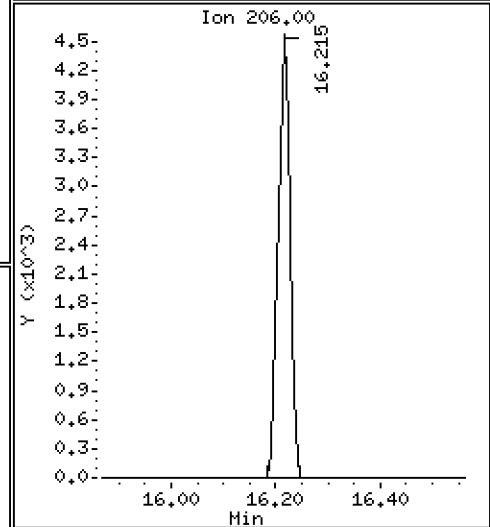
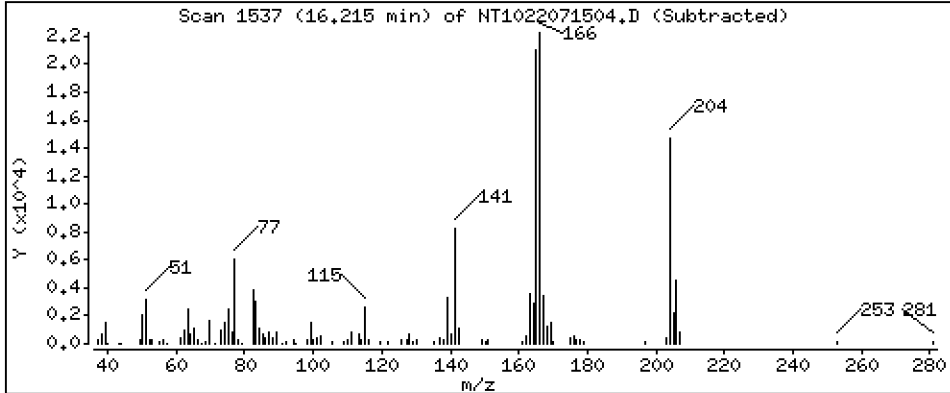
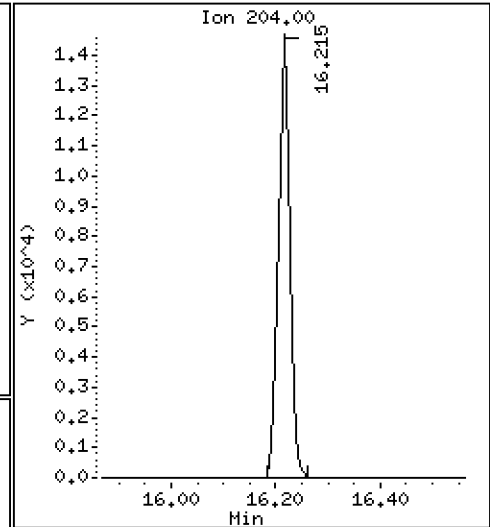
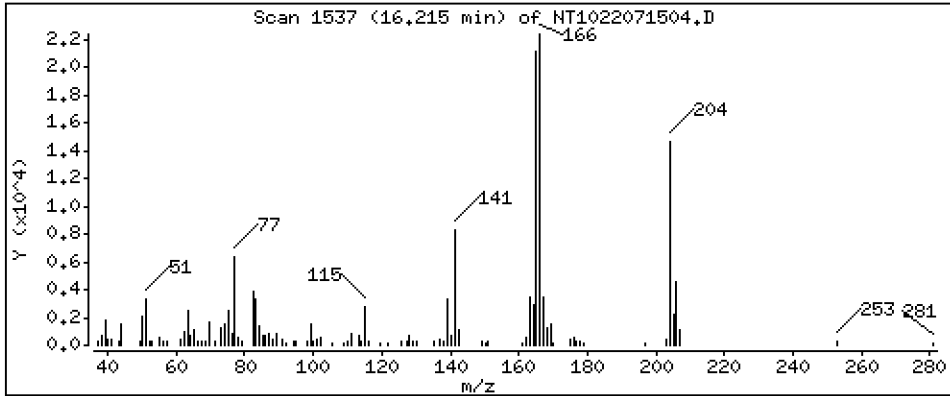
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,1889 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

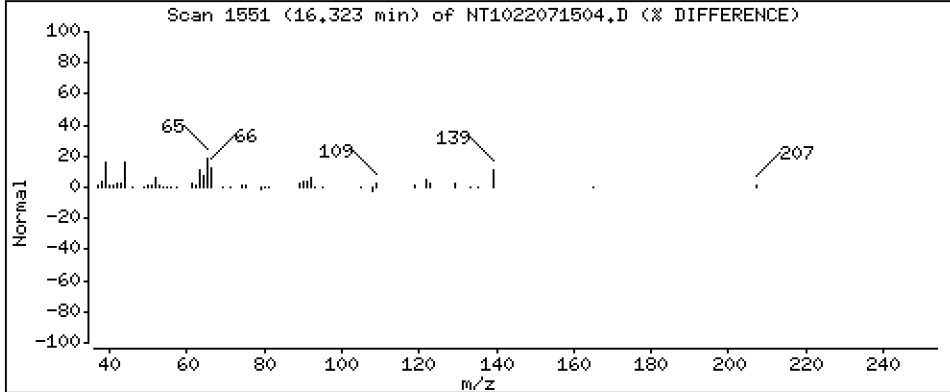
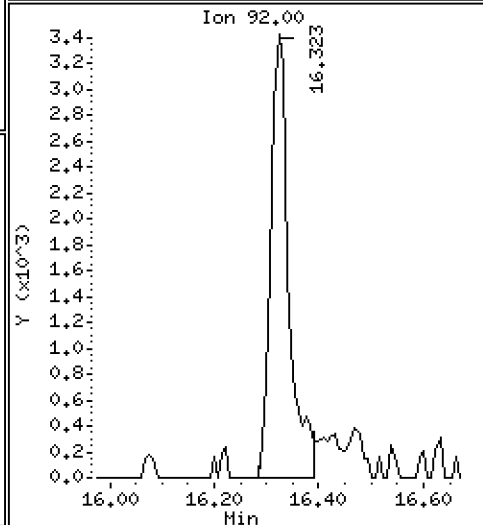
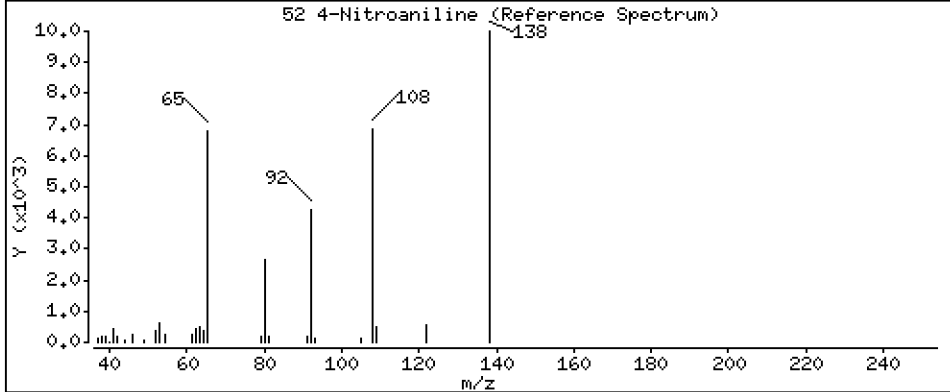
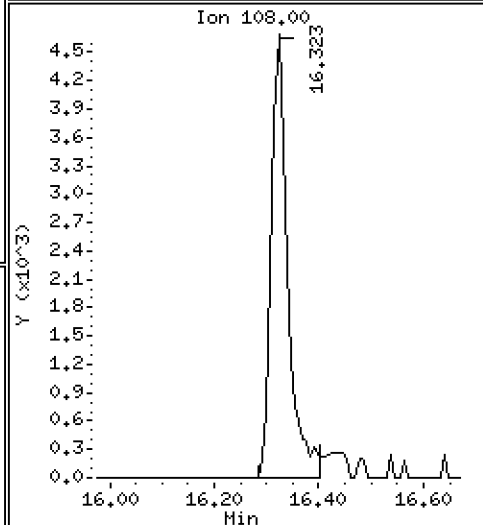
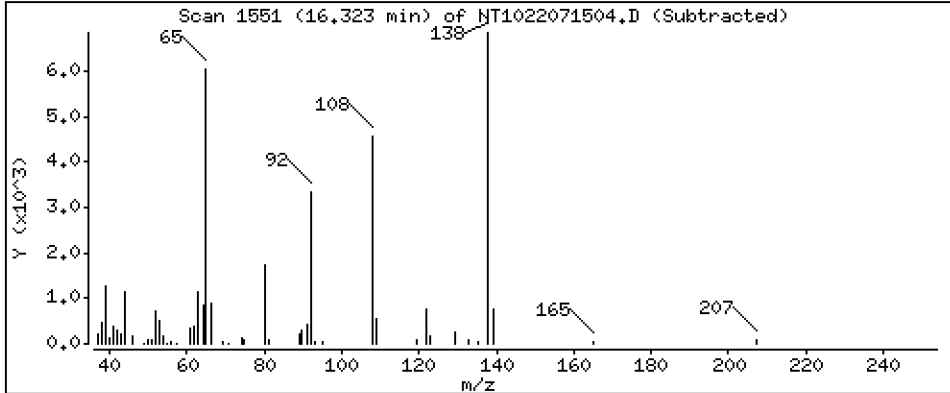
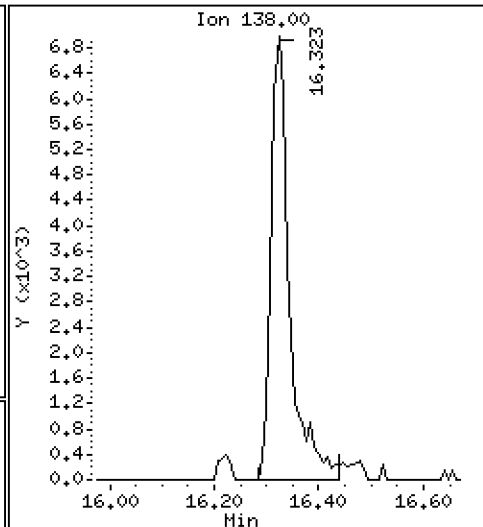
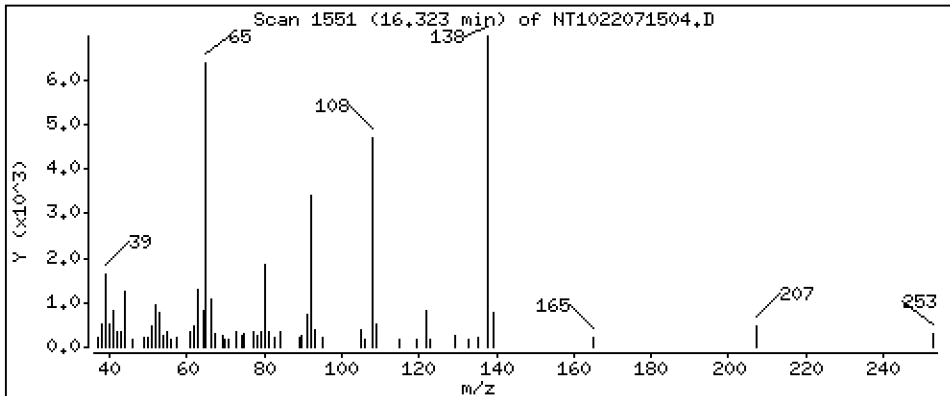
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

52 4-Nitroaniline

Concentration: 0.3668 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

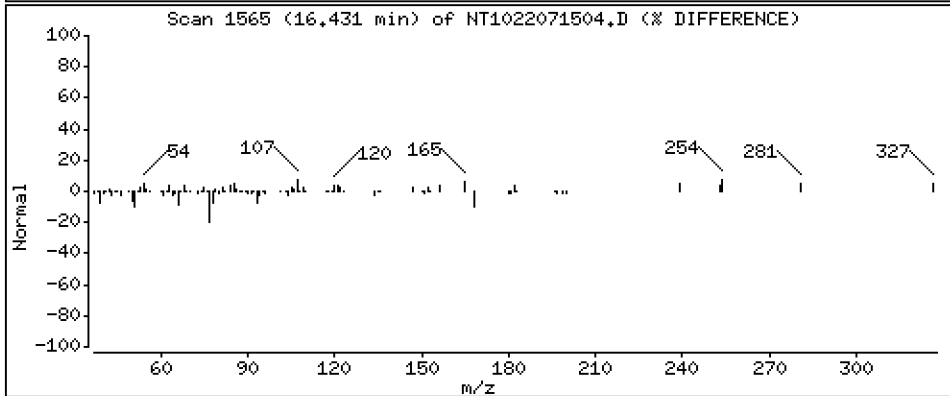
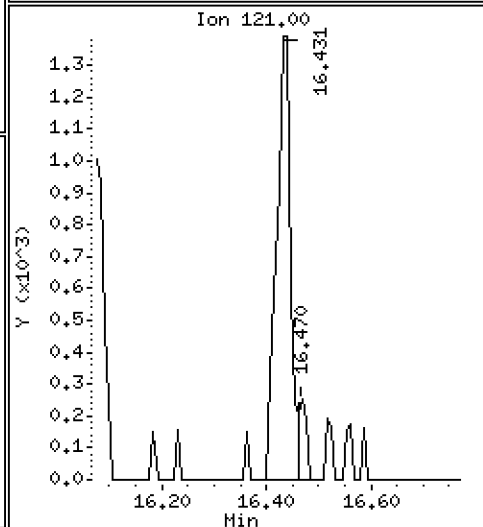
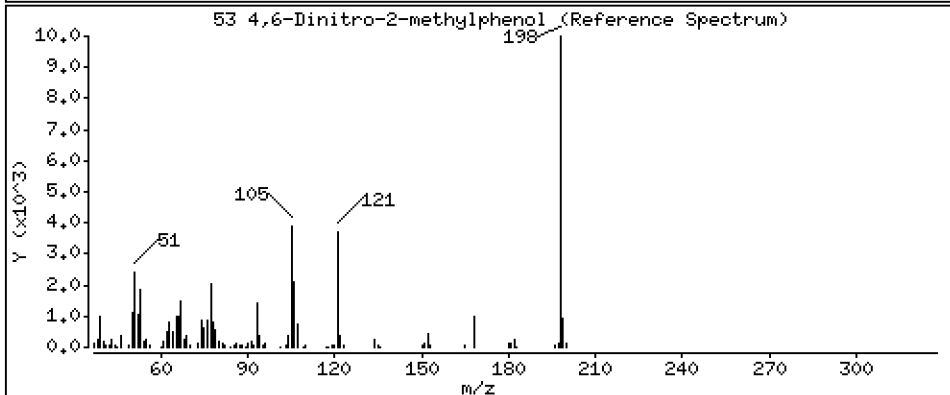
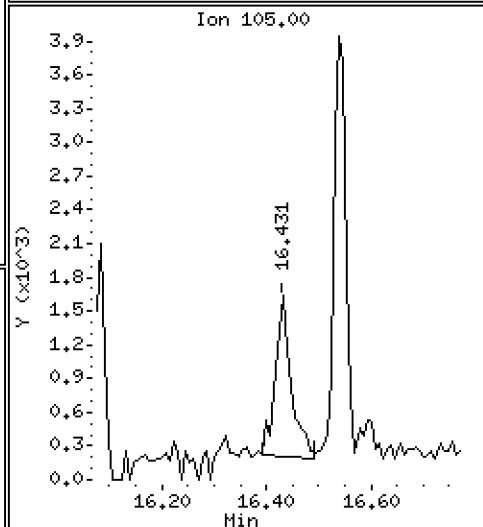
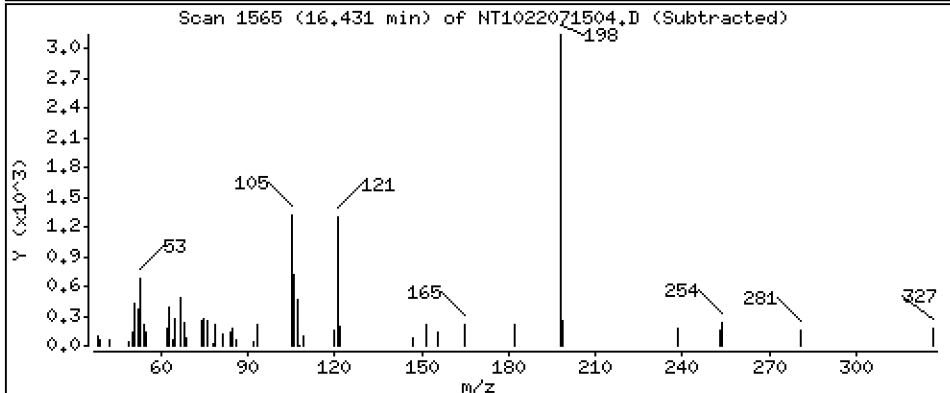
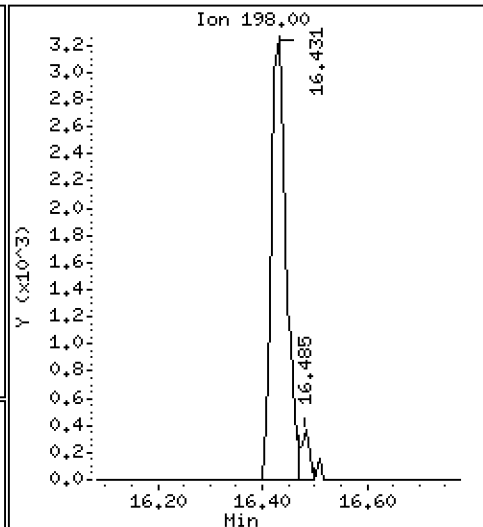
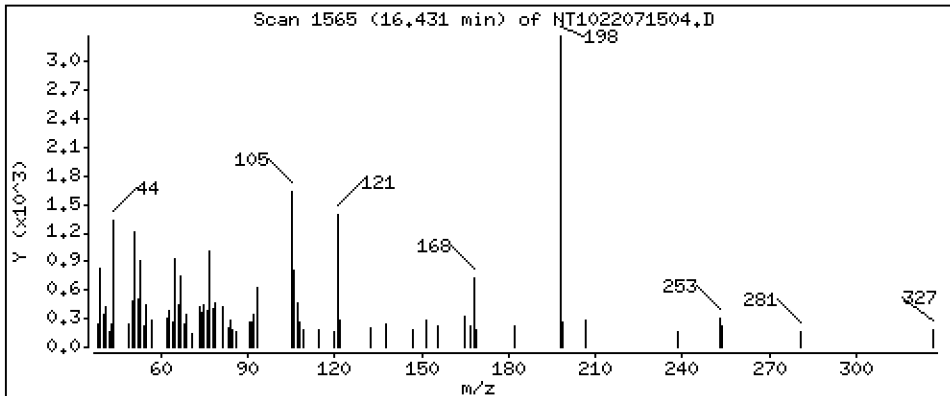
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.1859 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

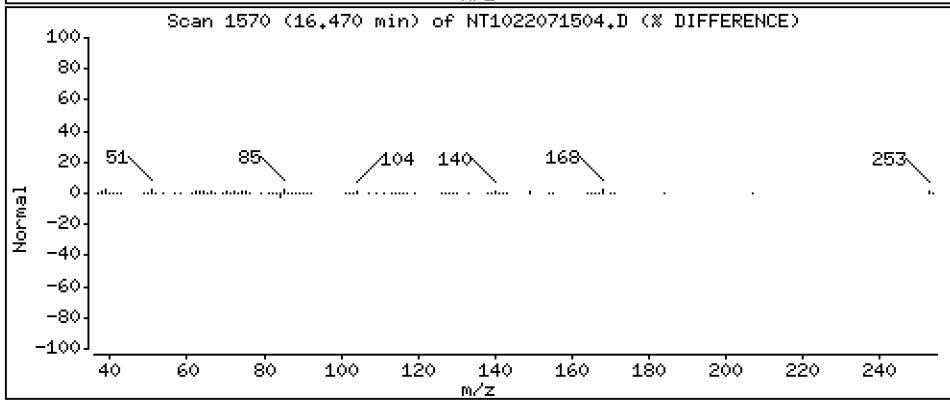
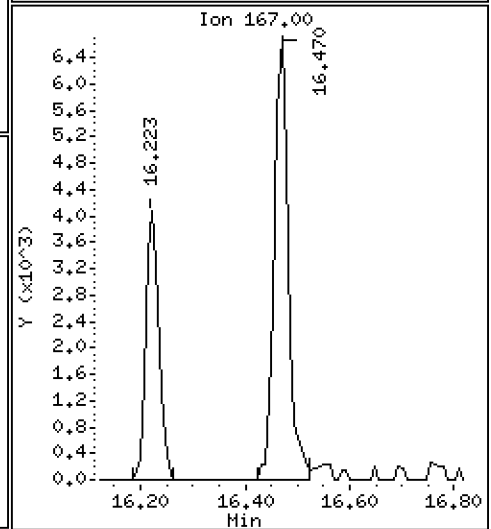
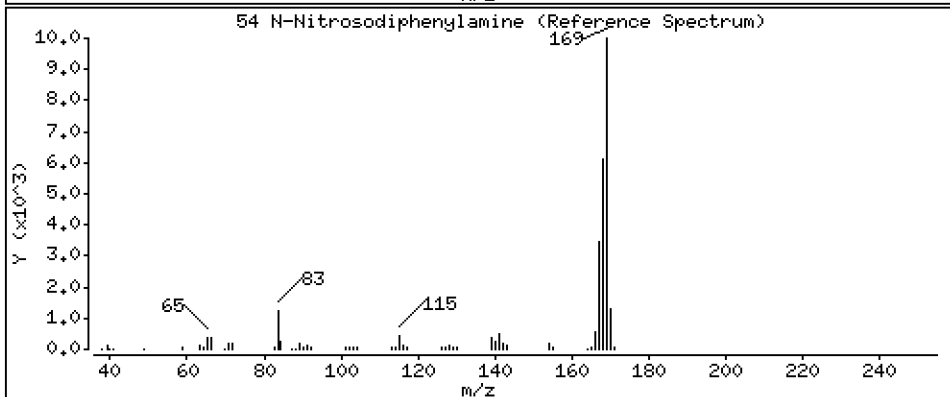
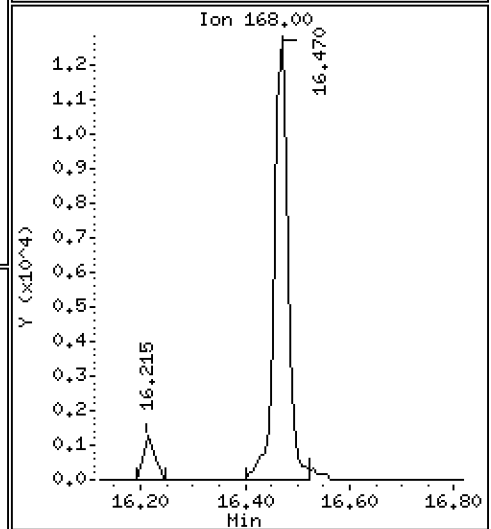
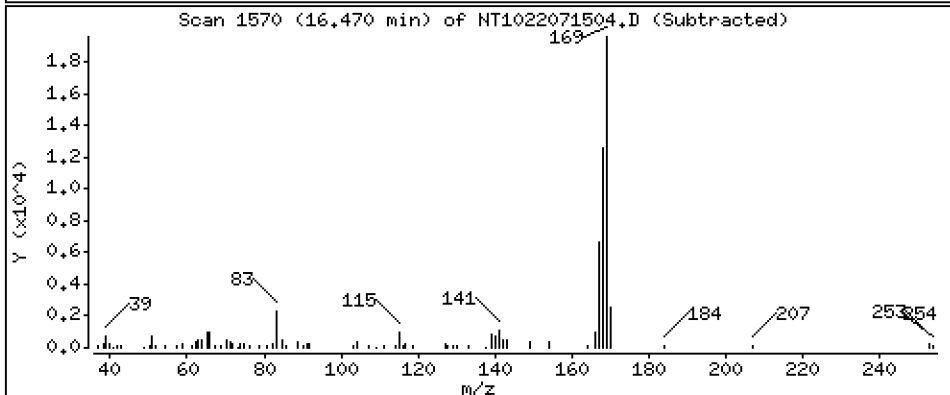
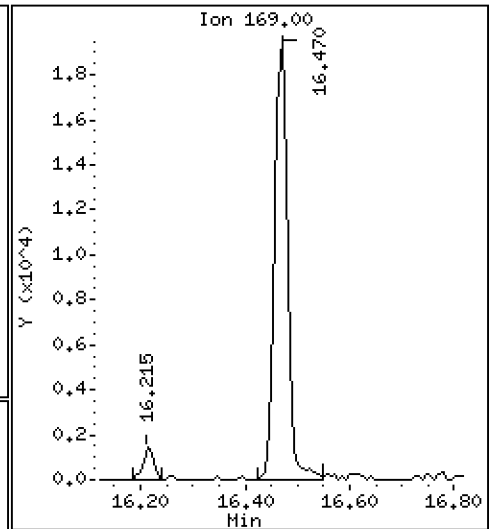
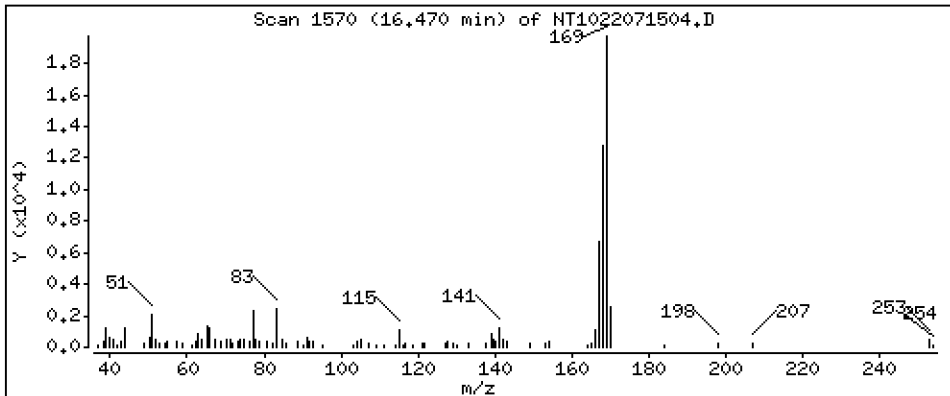
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 0.2425 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

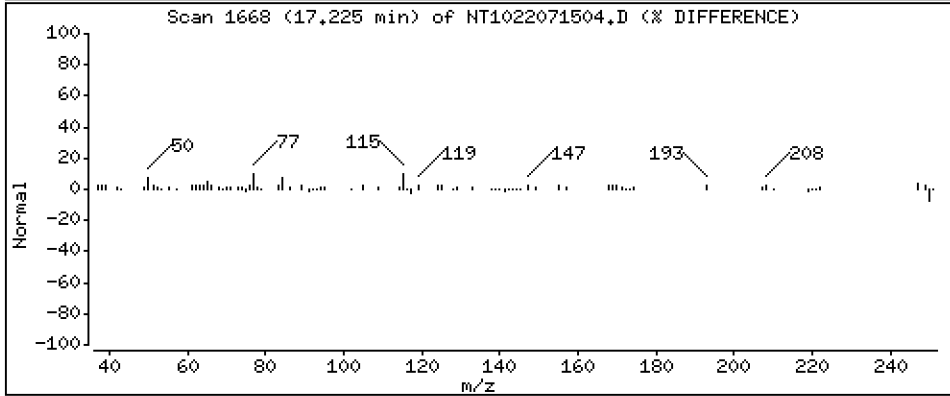
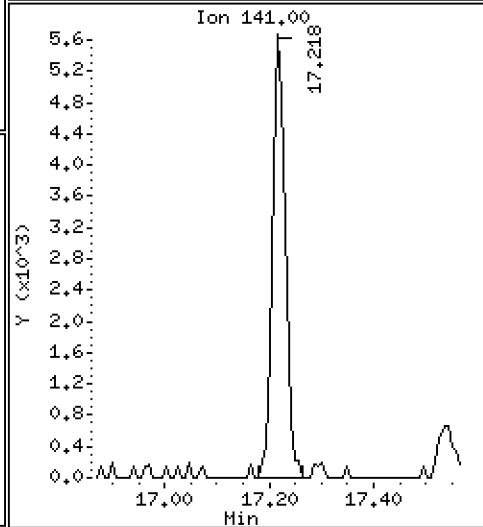
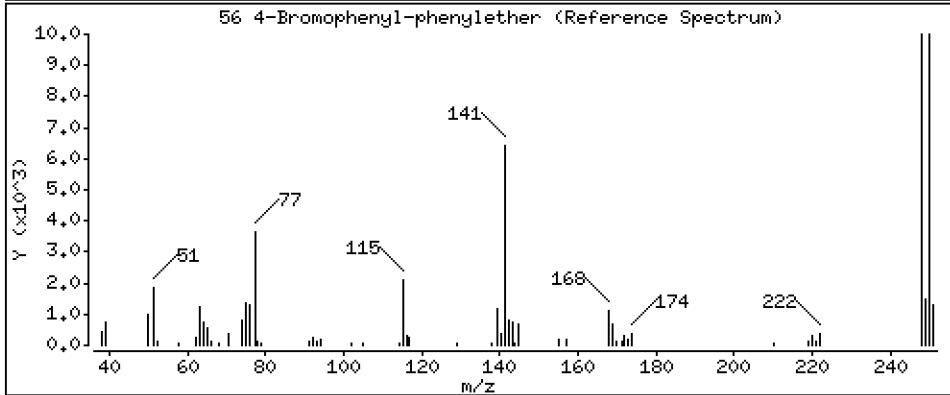
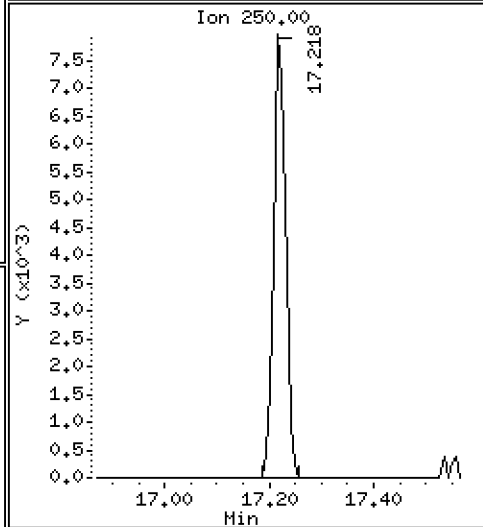
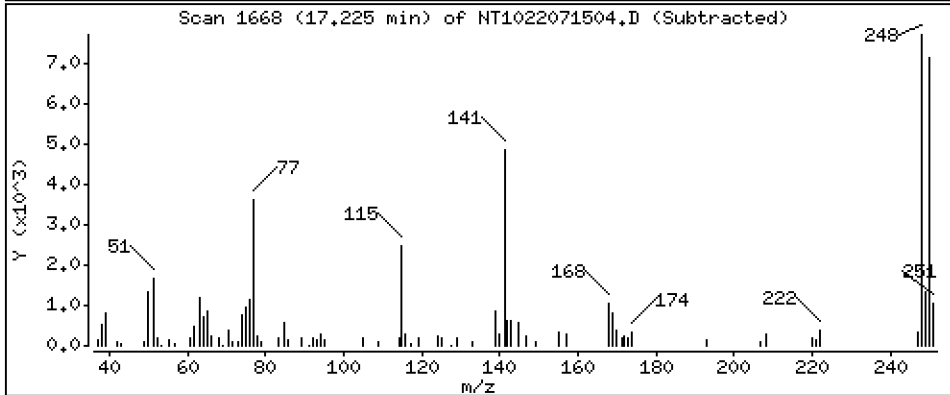
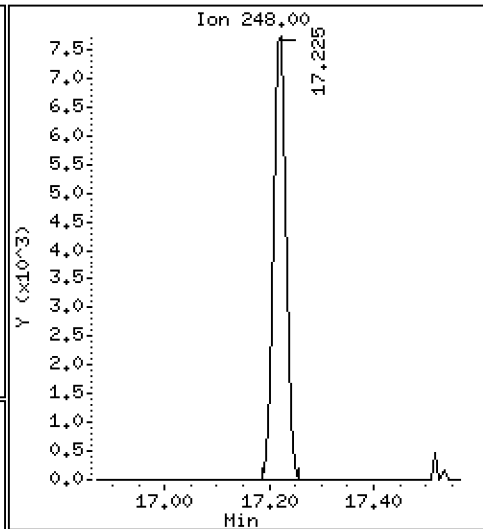
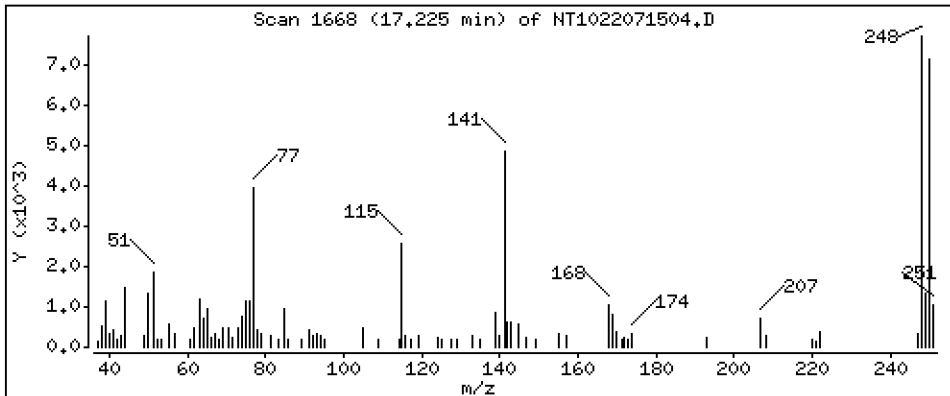
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2017 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

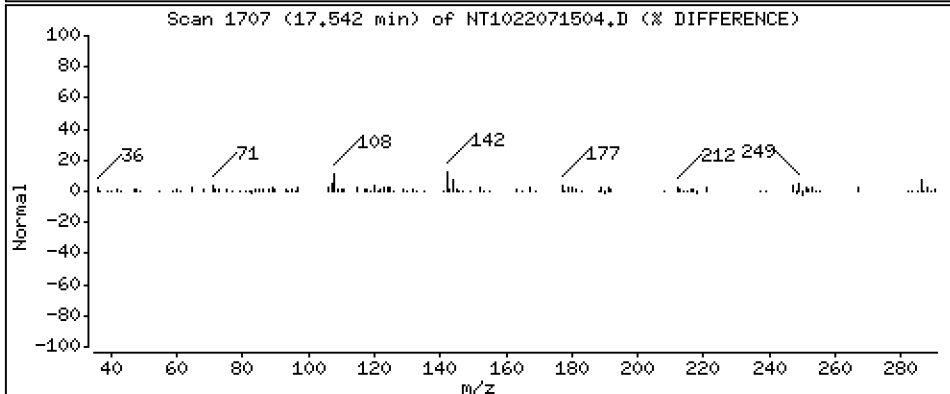
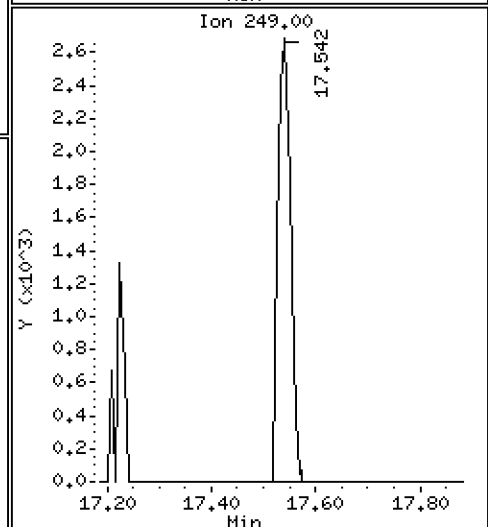
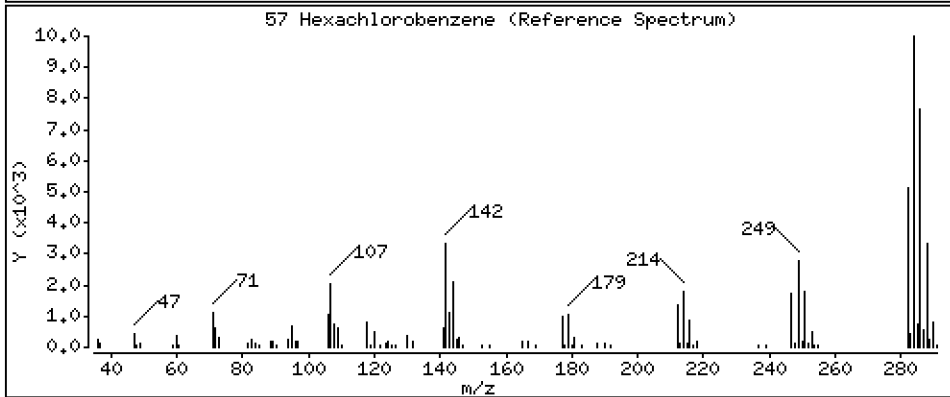
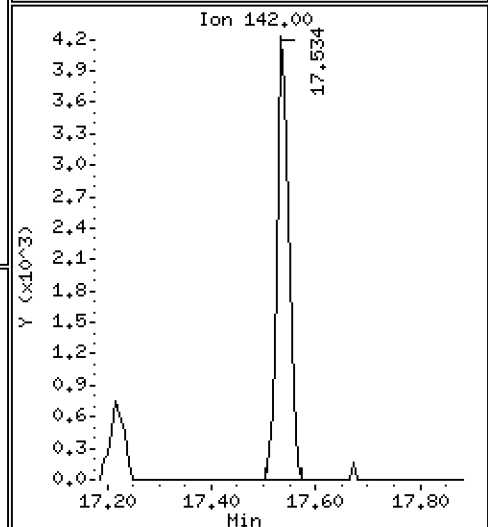
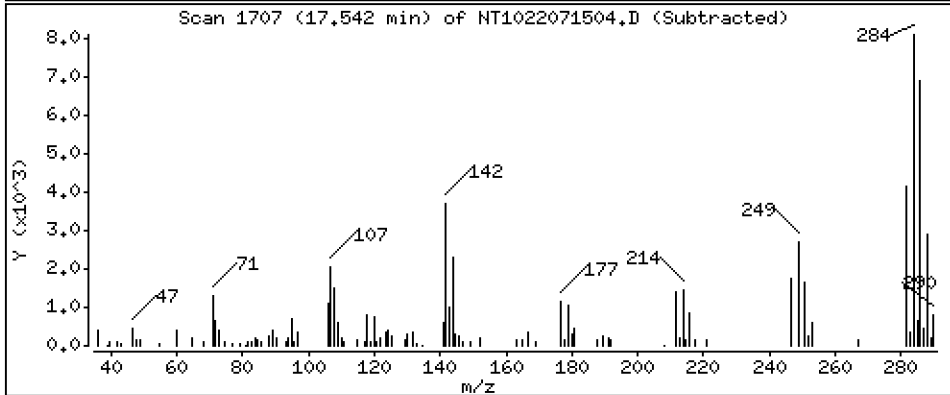
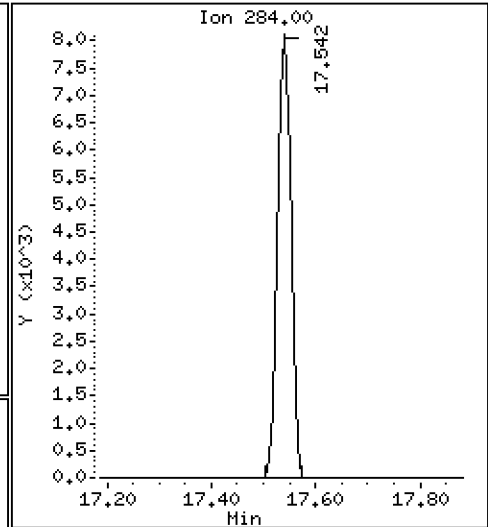
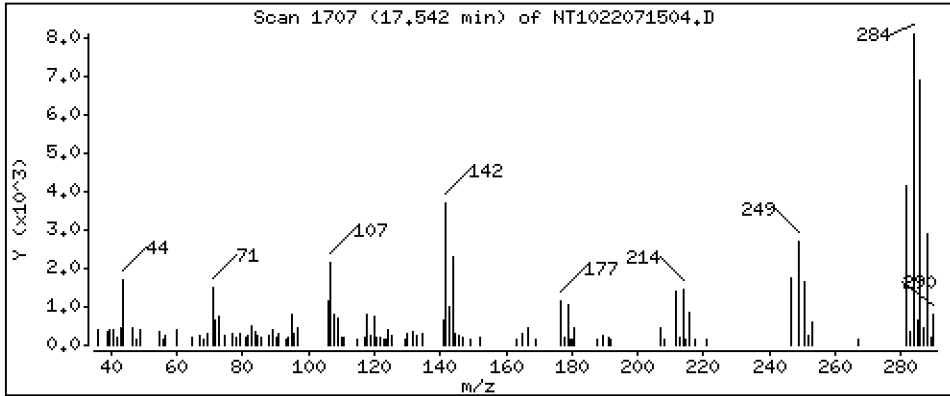
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,2350 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

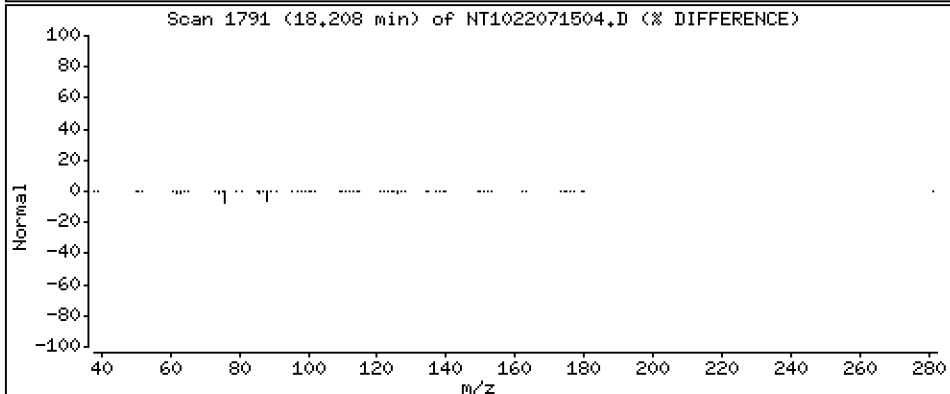
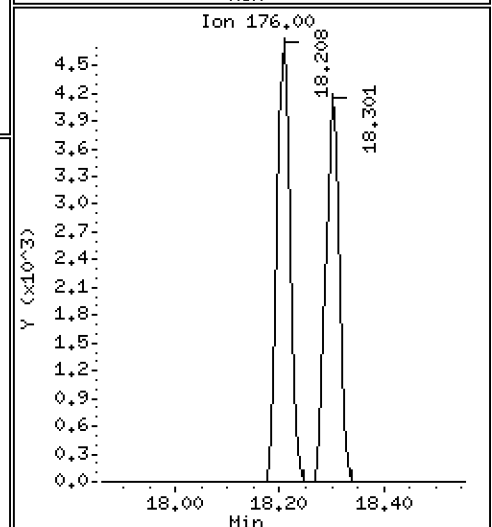
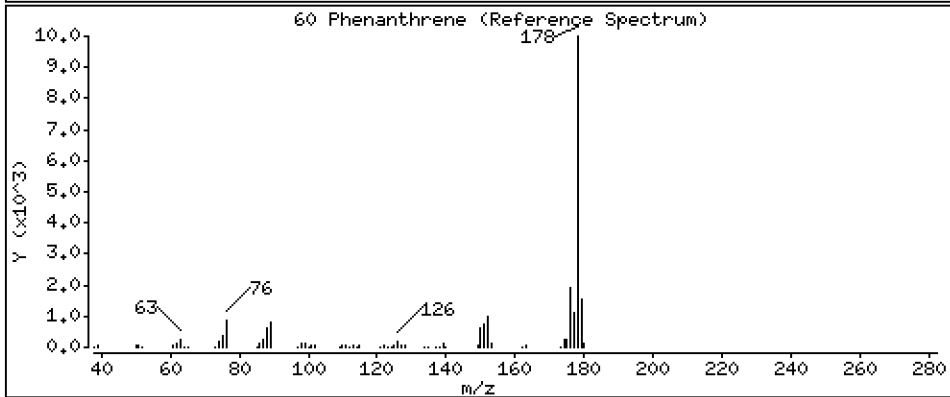
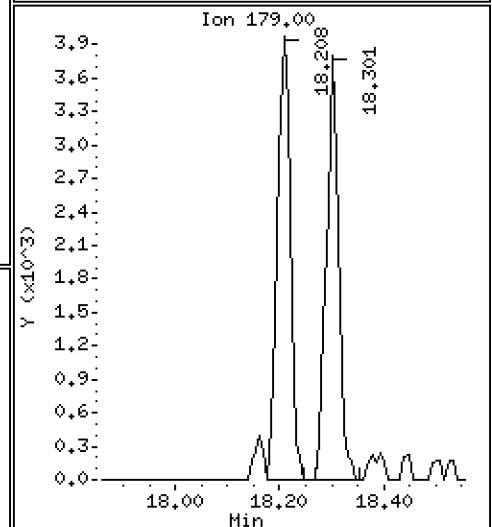
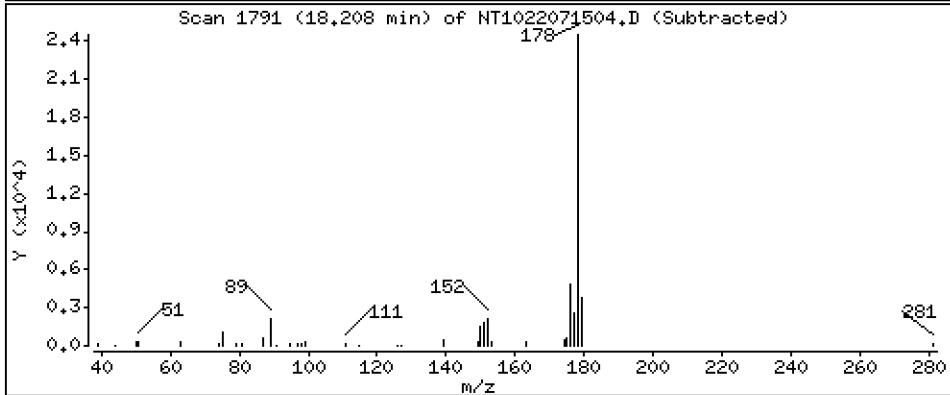
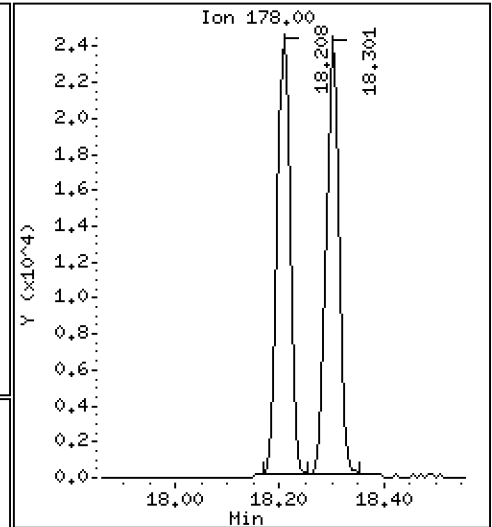
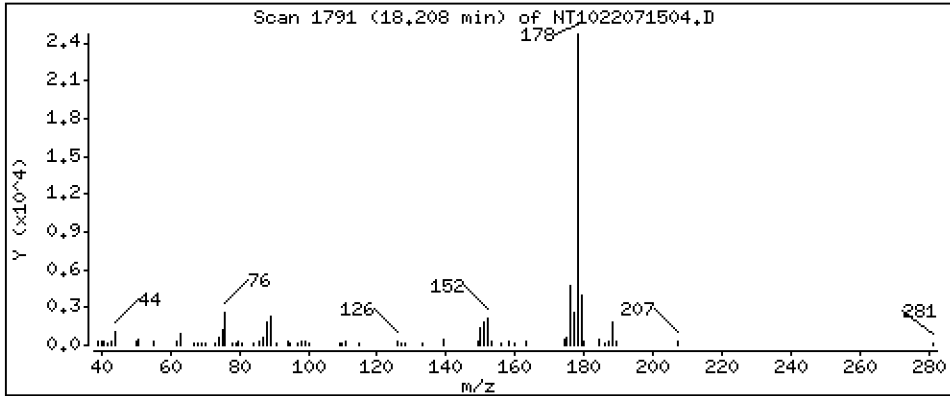
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,1830 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

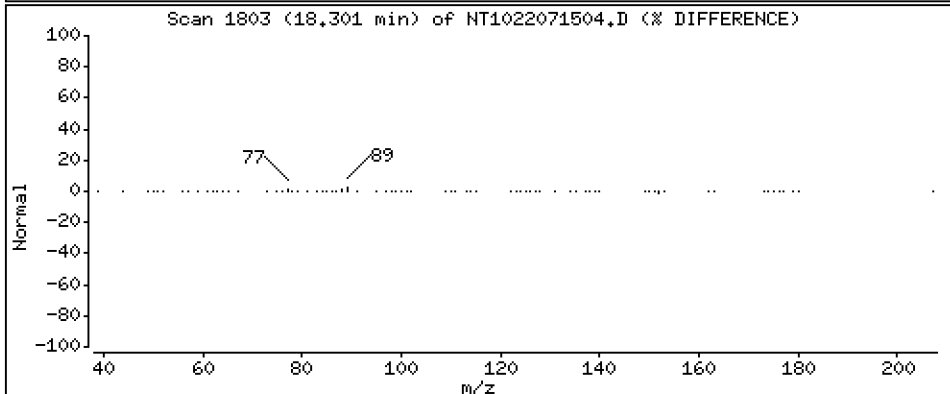
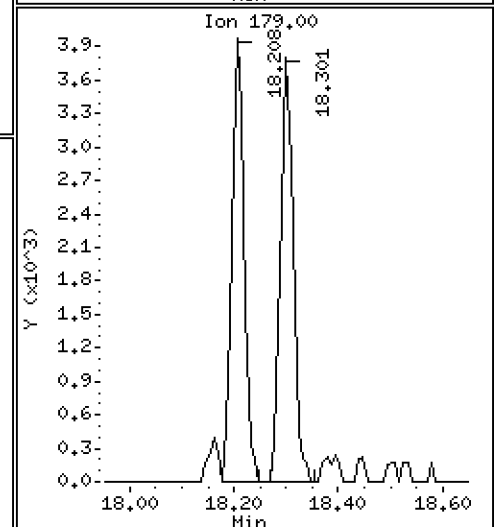
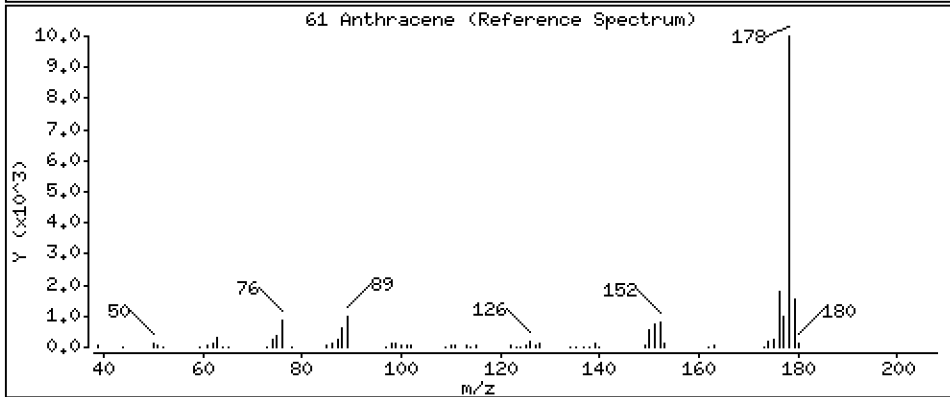
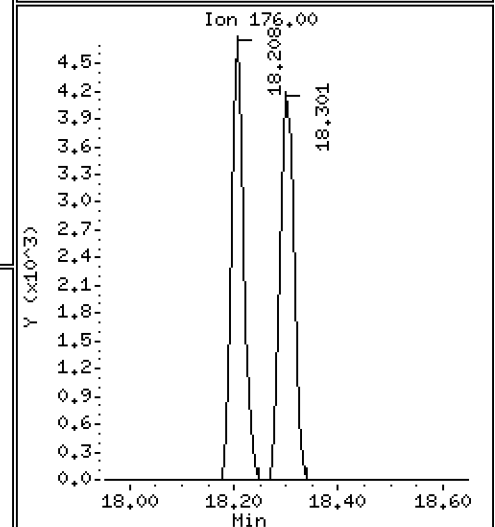
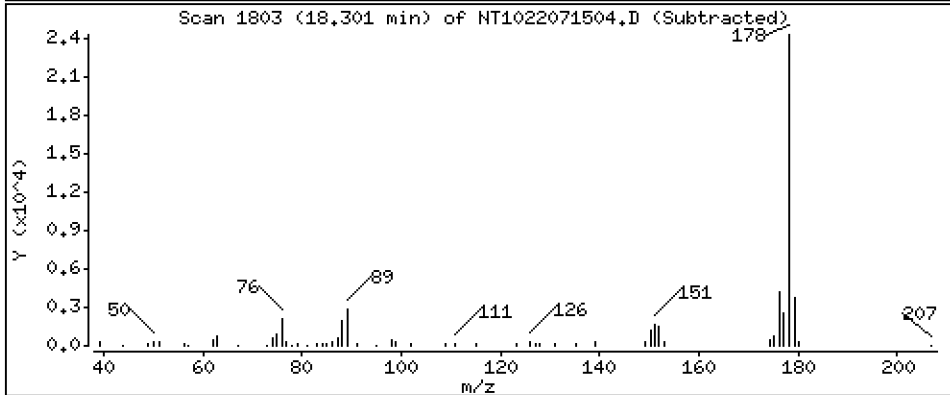
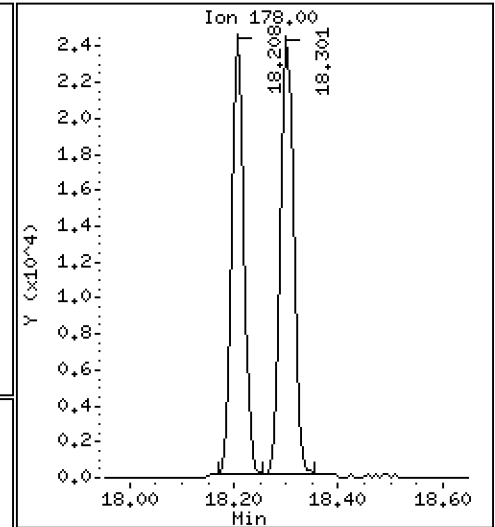
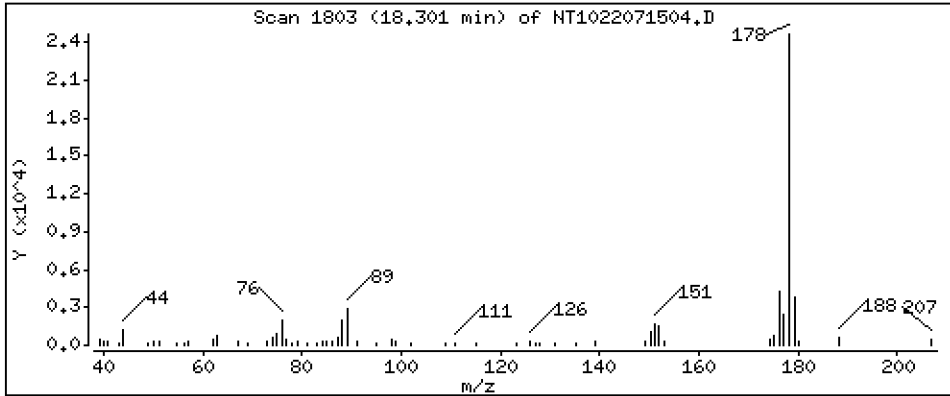
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,1735 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

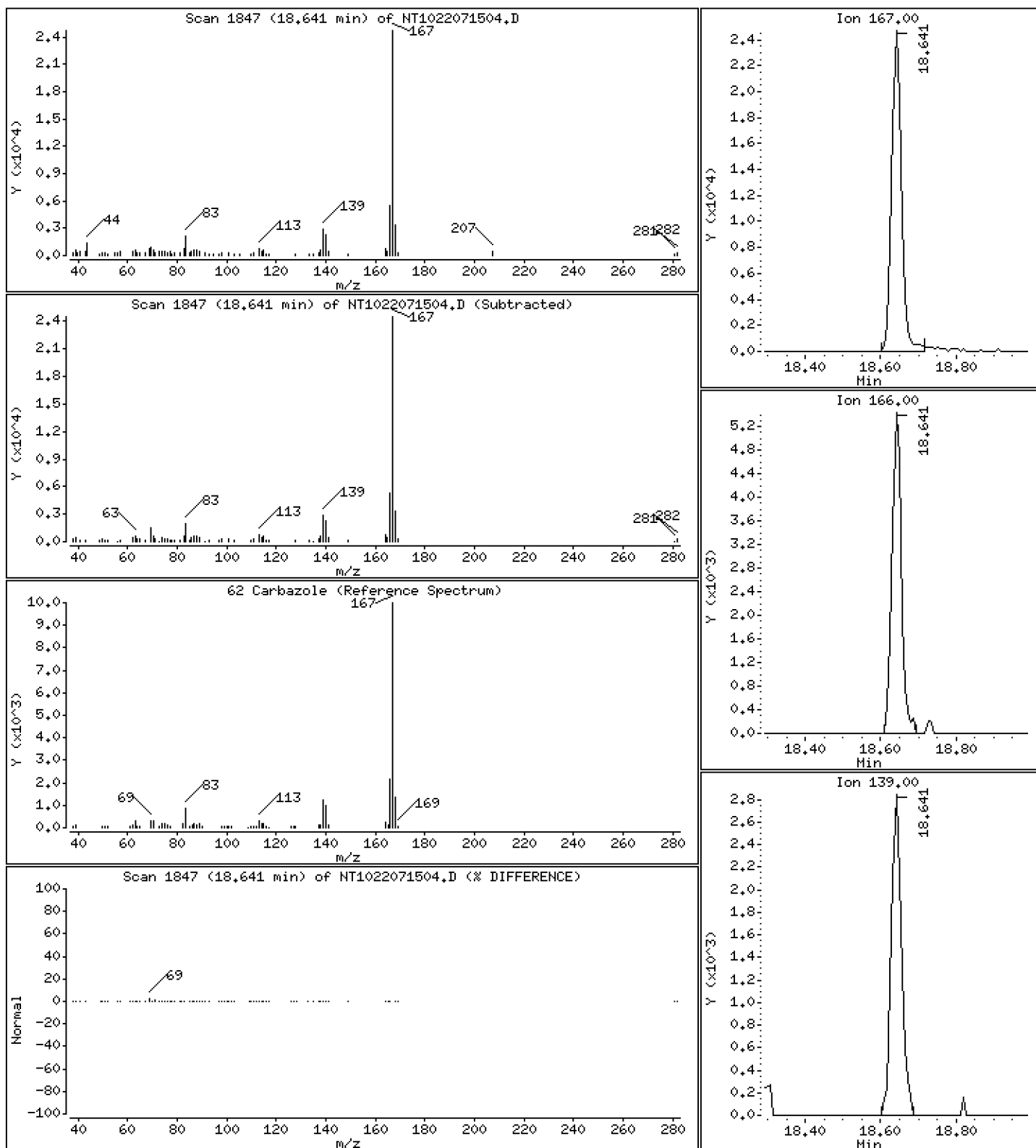
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1948 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

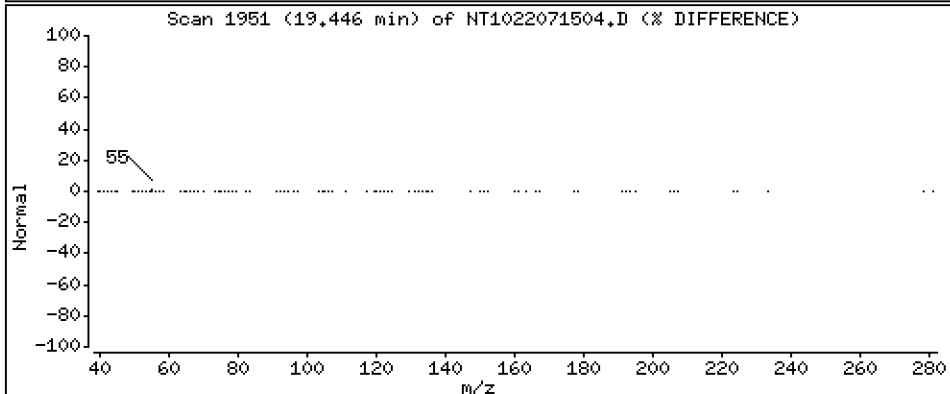
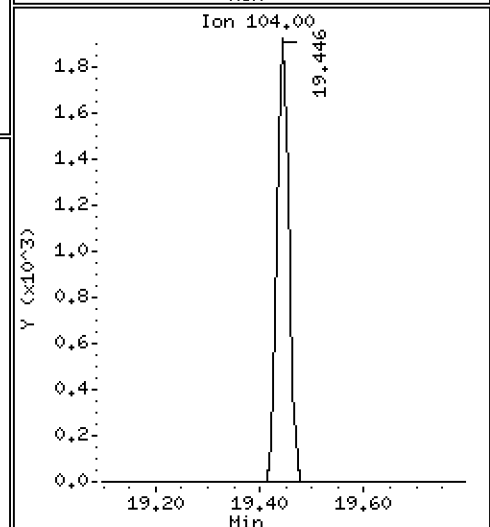
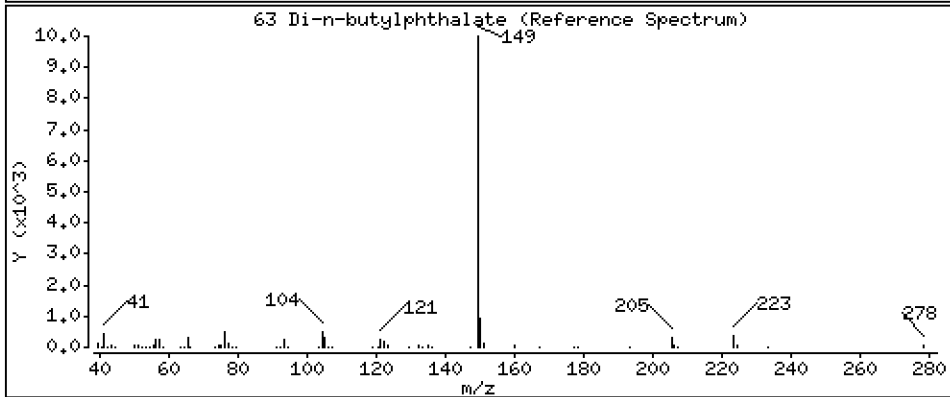
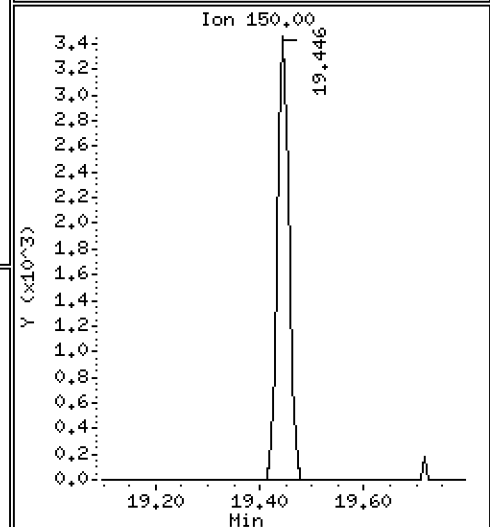
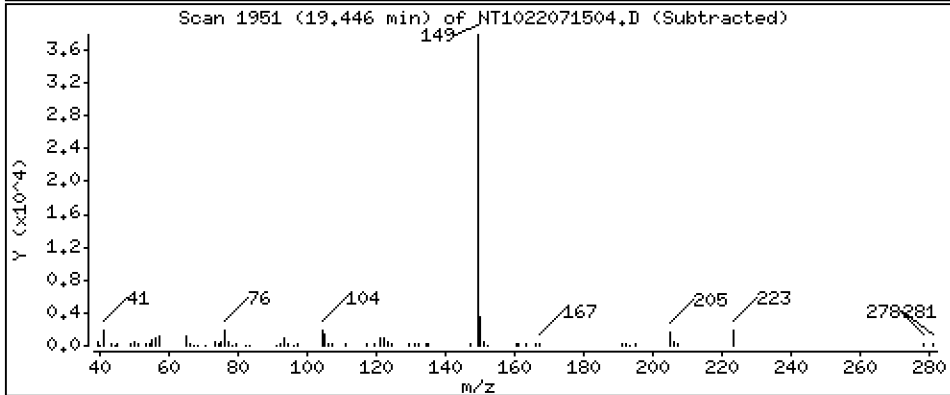
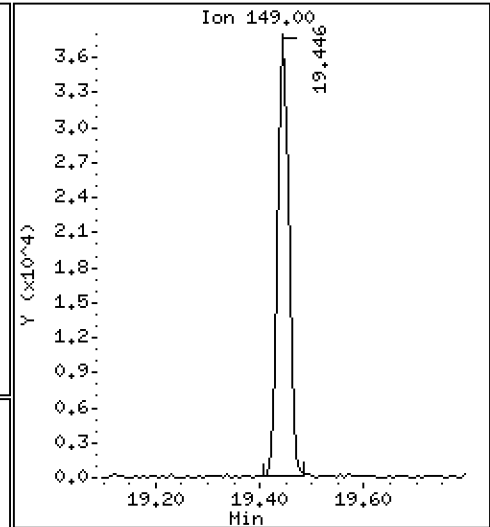
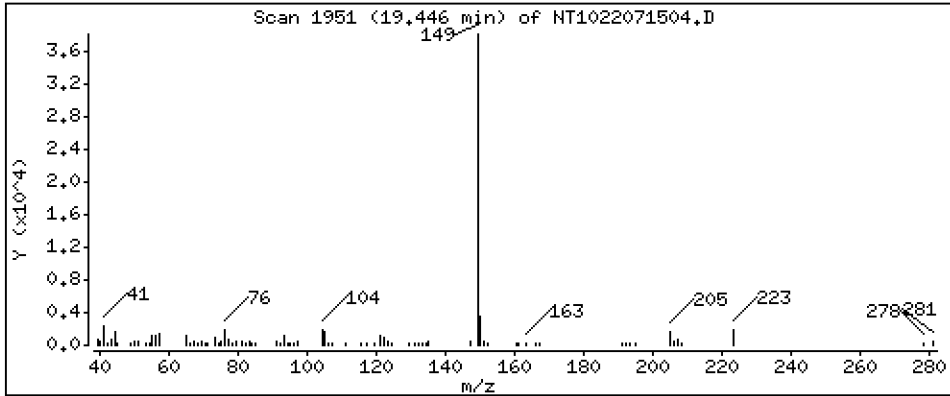
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1614 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

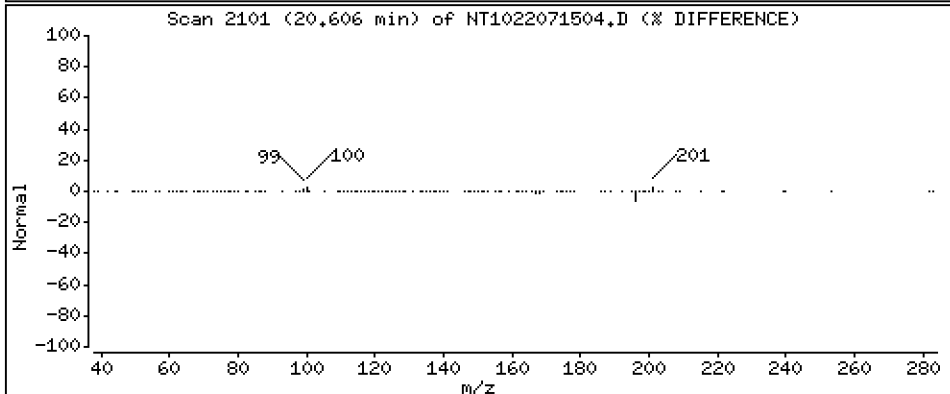
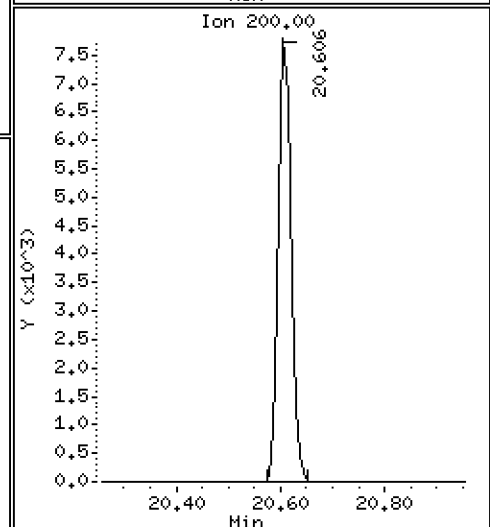
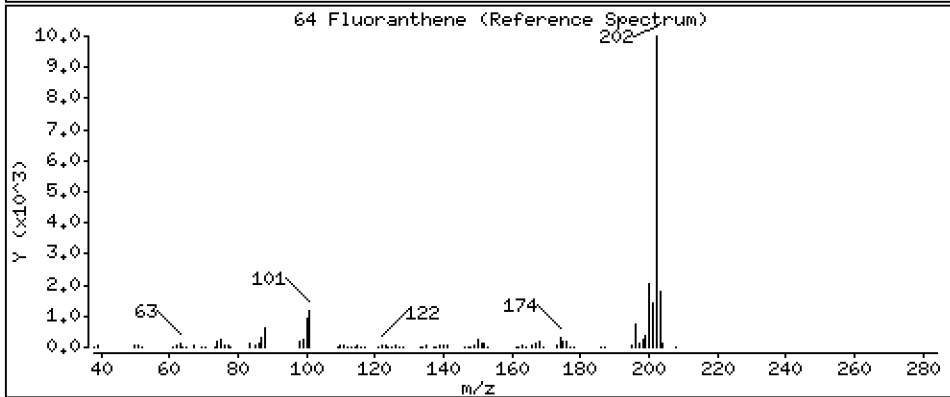
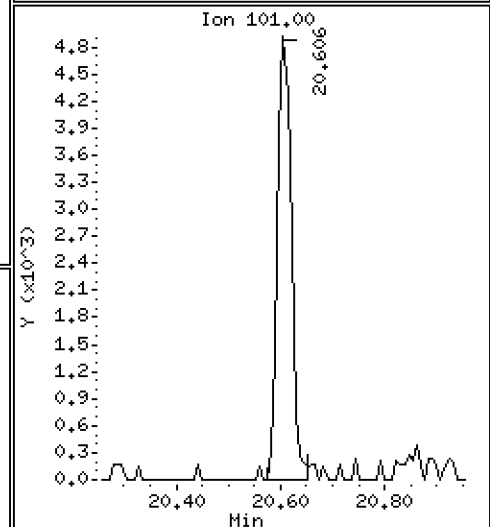
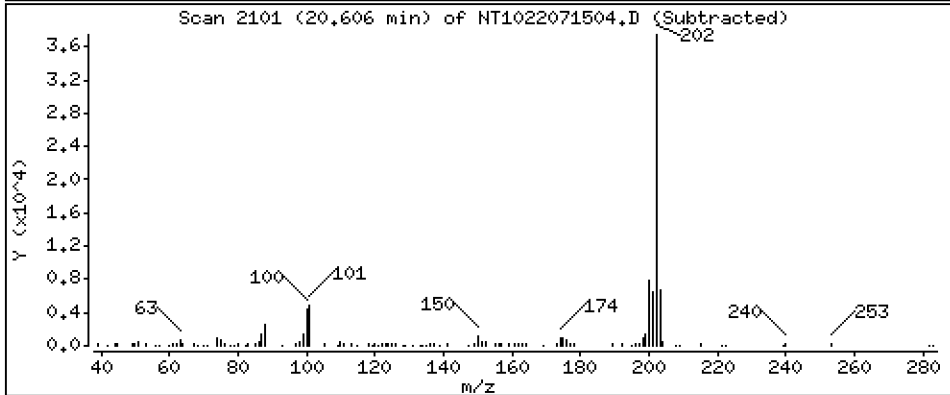
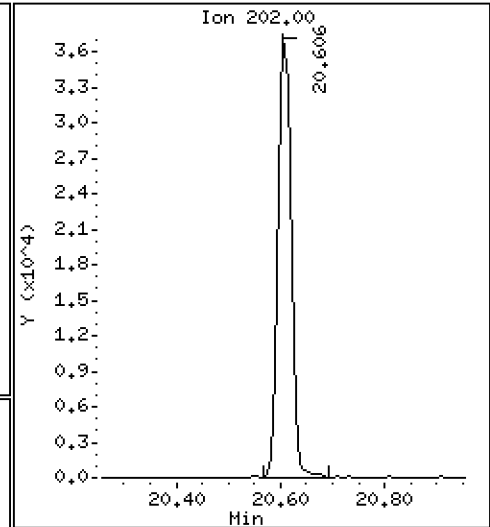
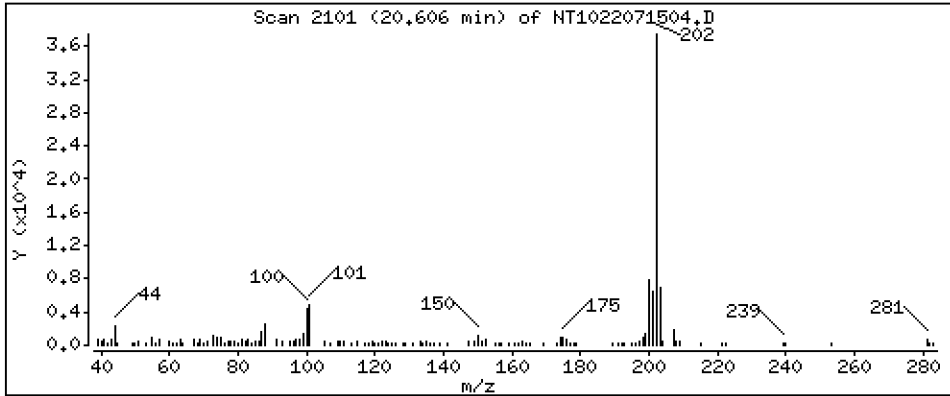
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1859 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

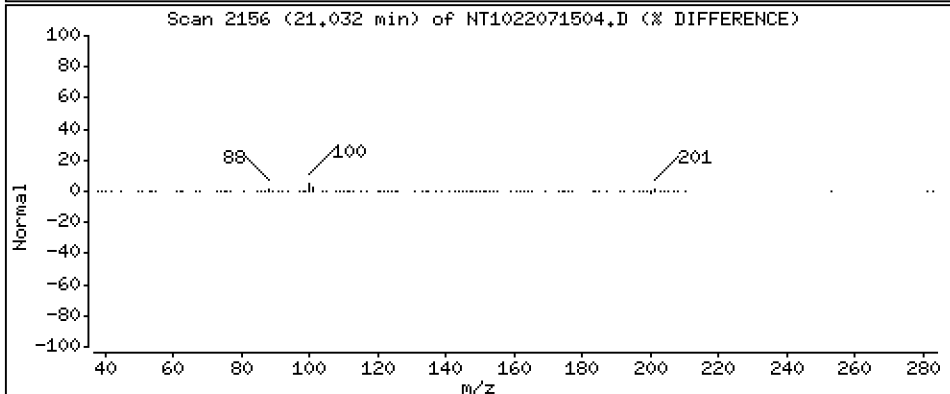
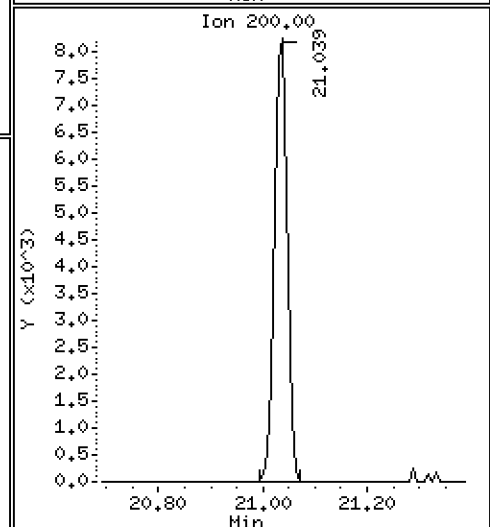
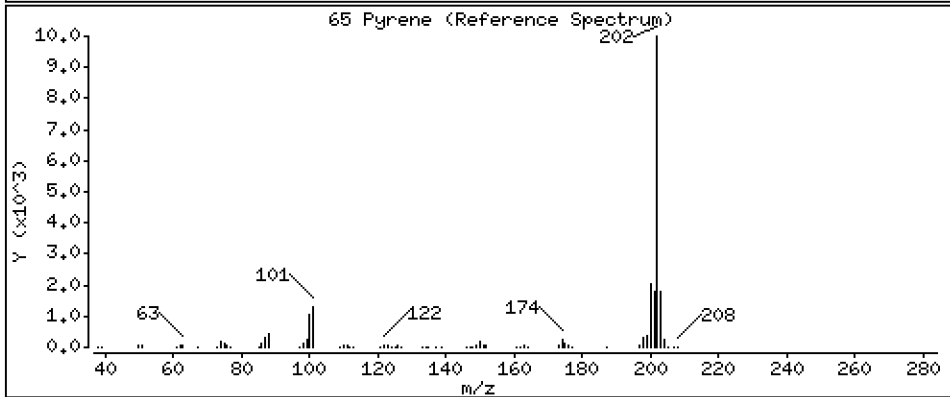
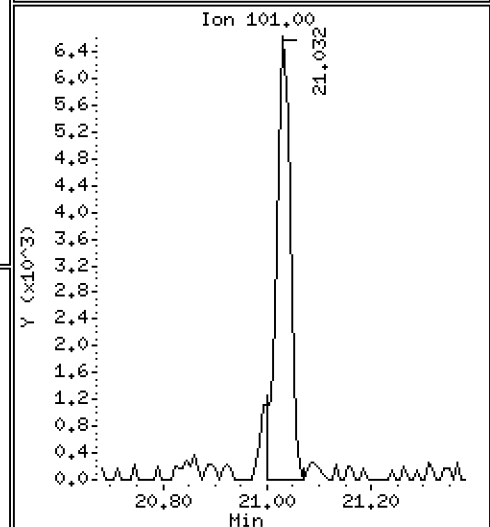
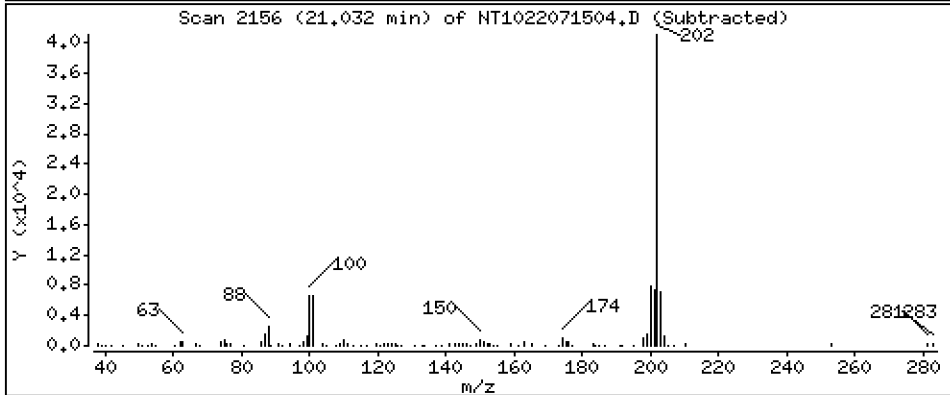
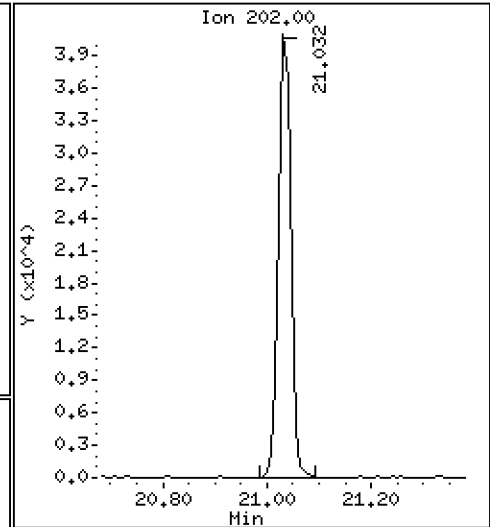
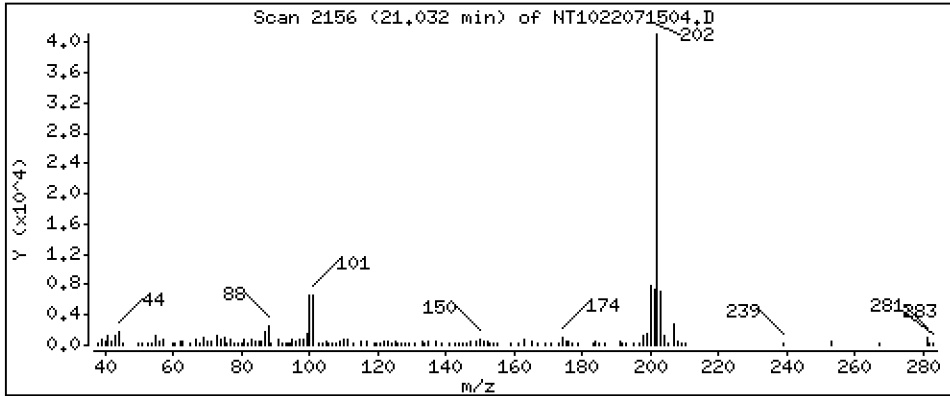
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,2199 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

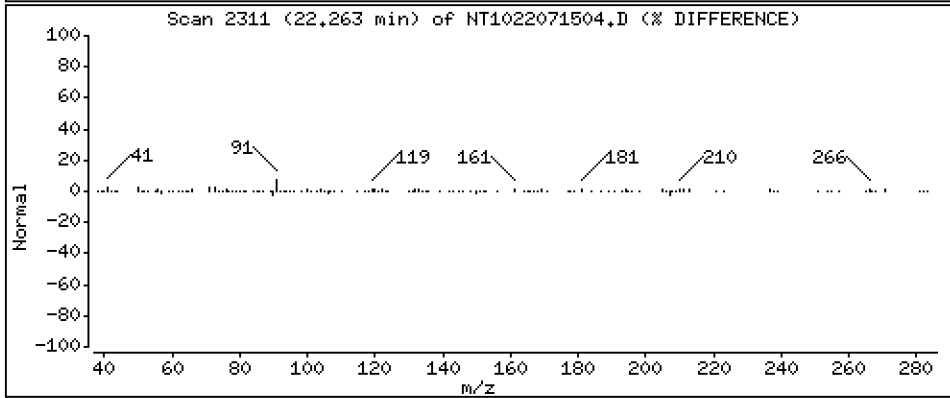
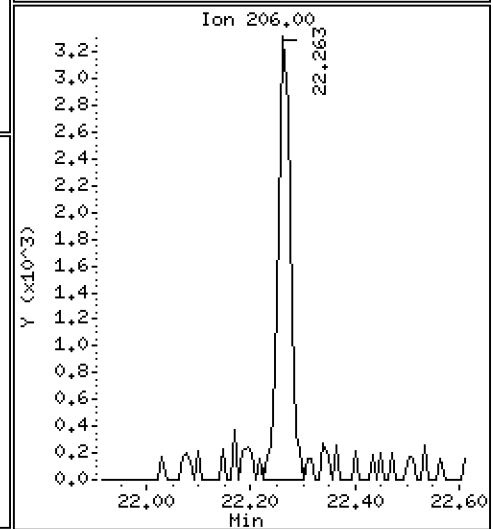
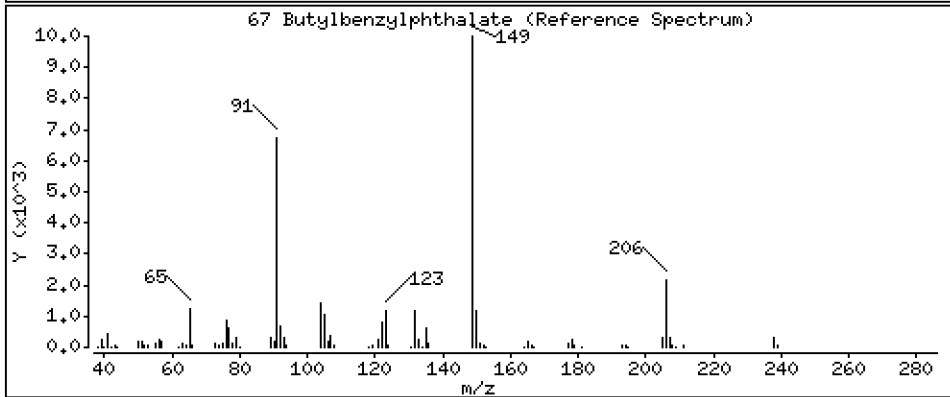
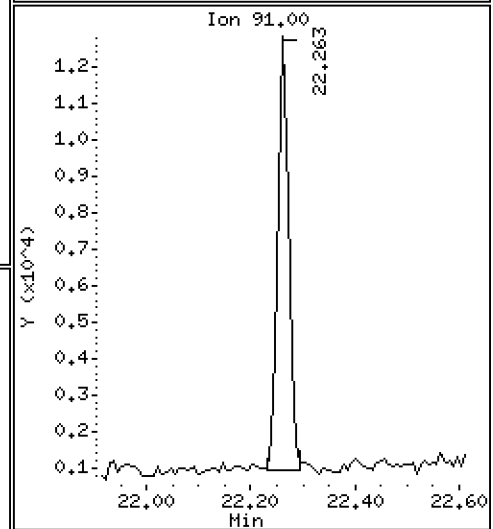
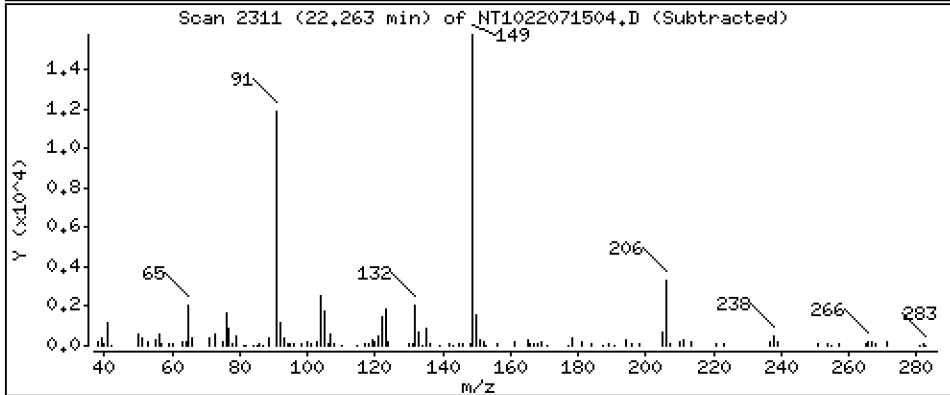
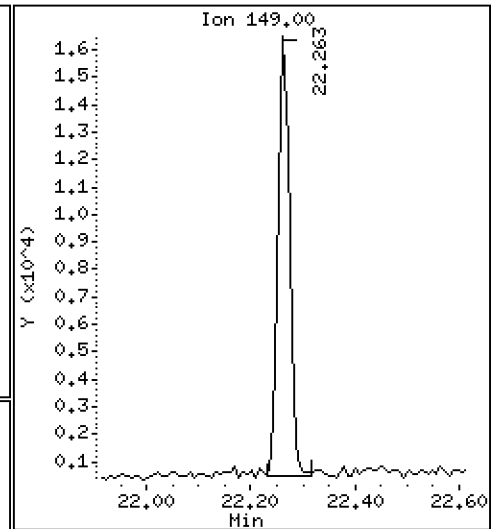
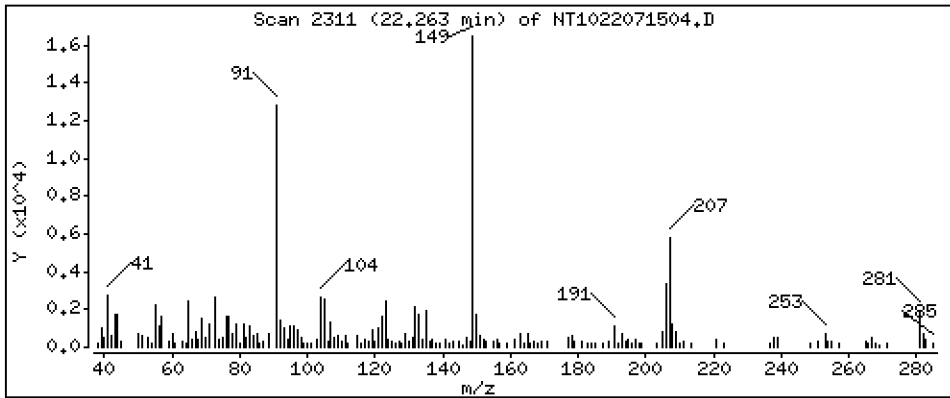
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.2444 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

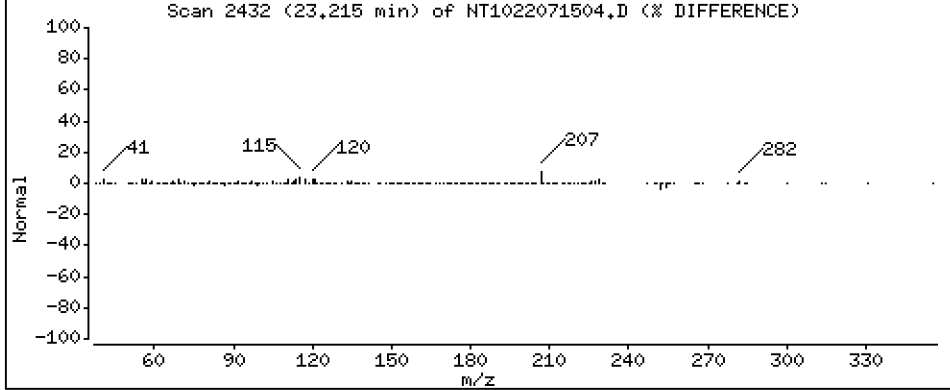
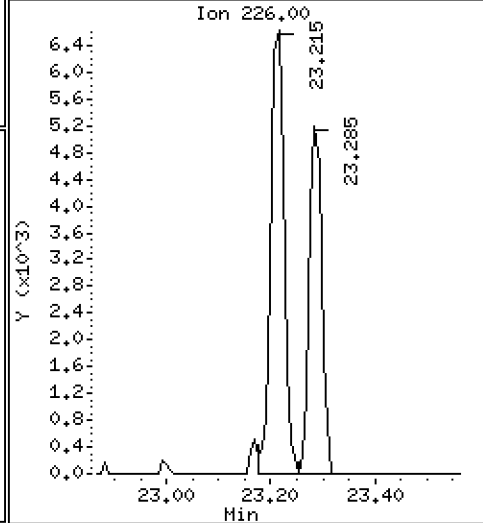
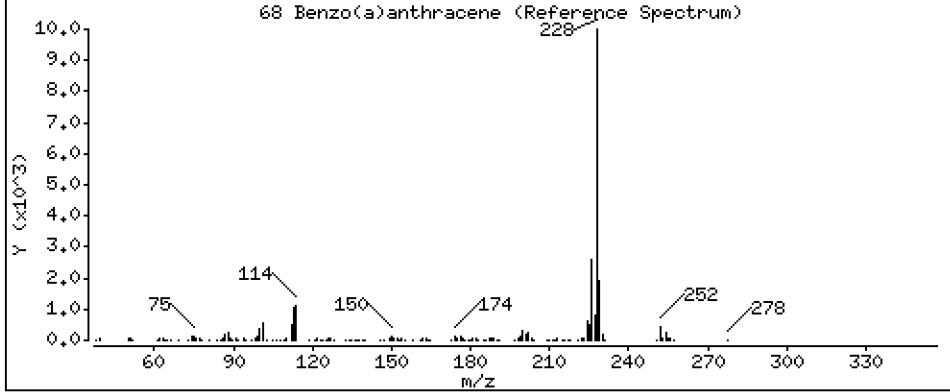
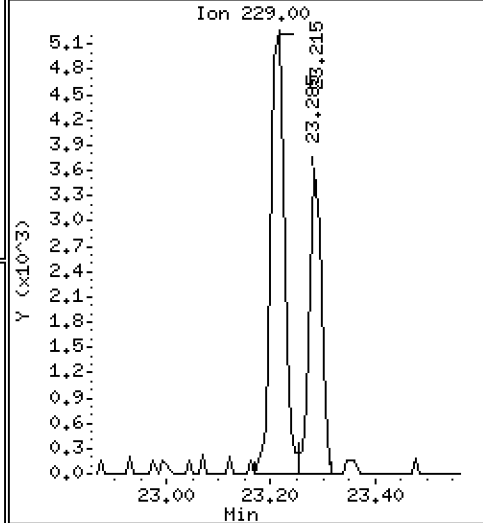
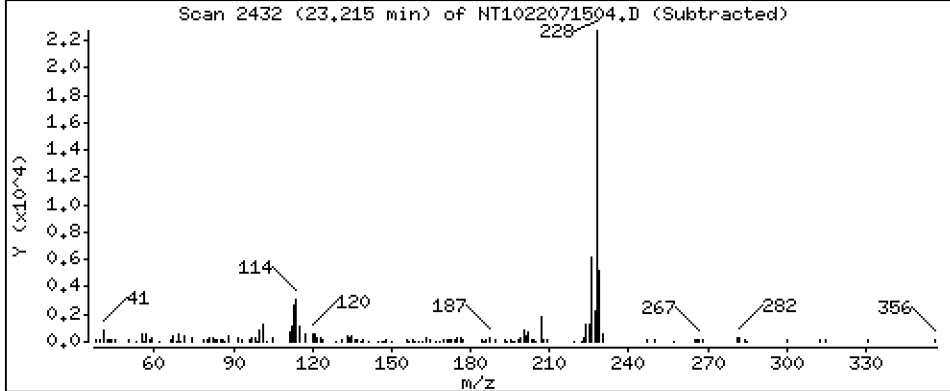
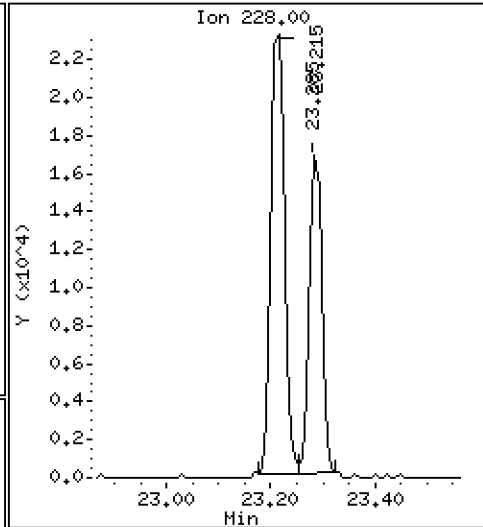
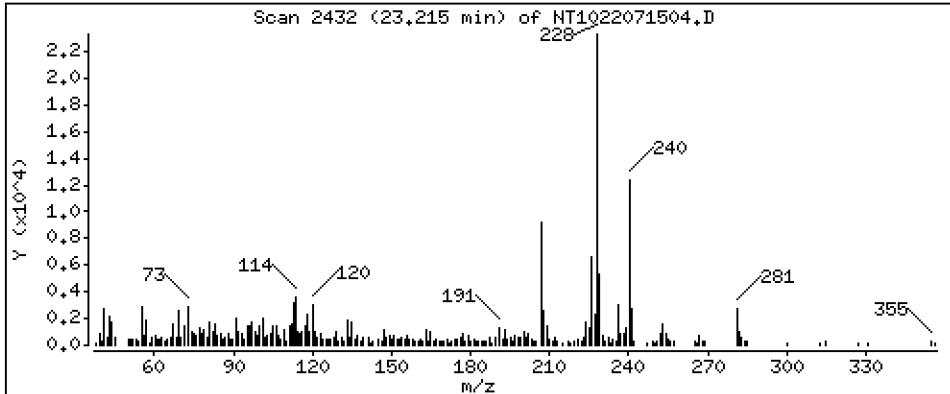
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2001 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

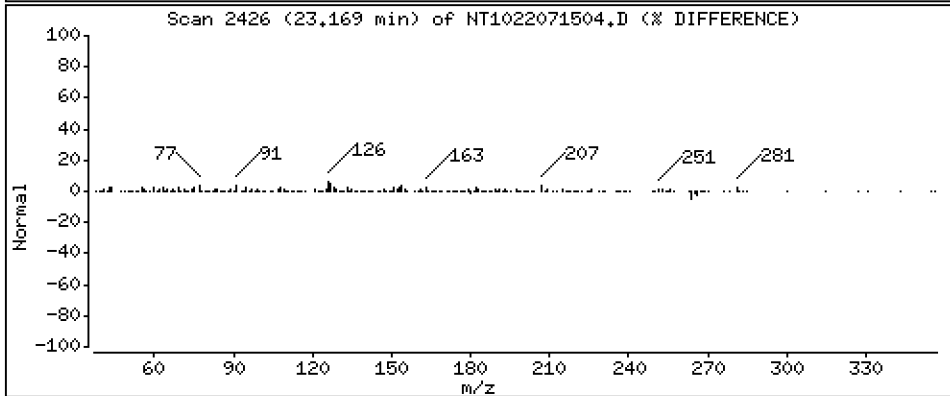
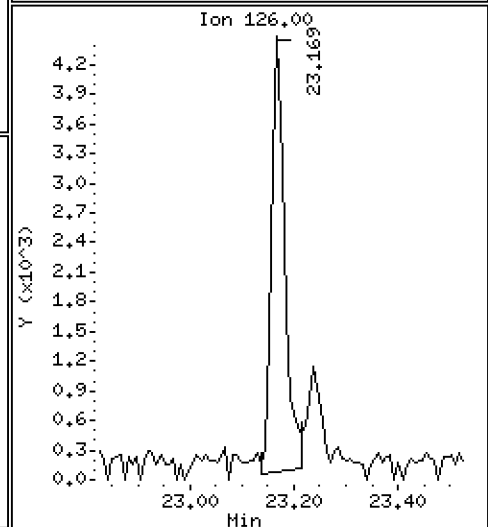
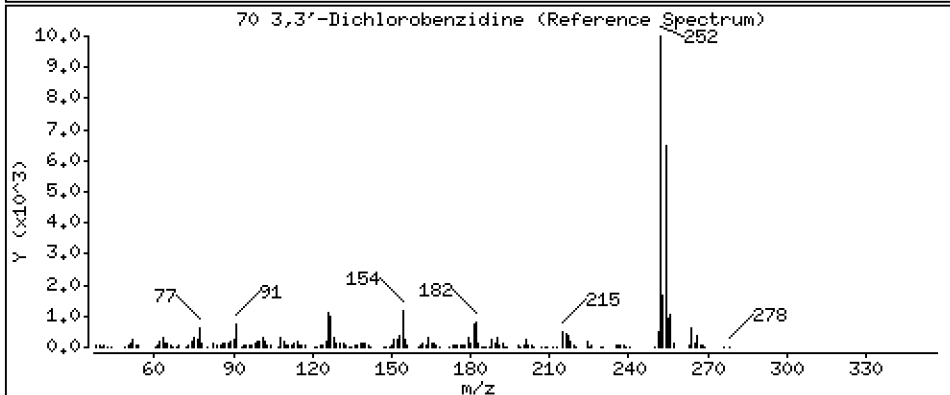
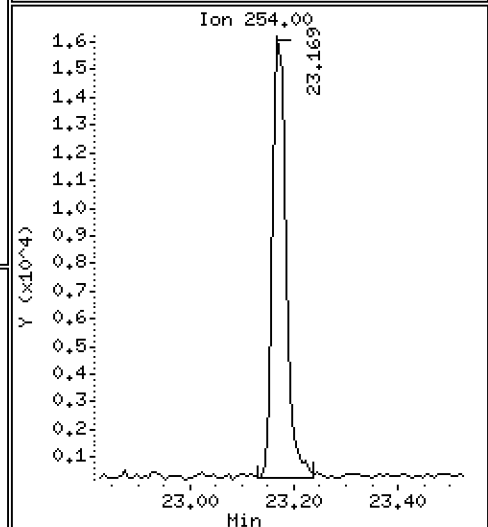
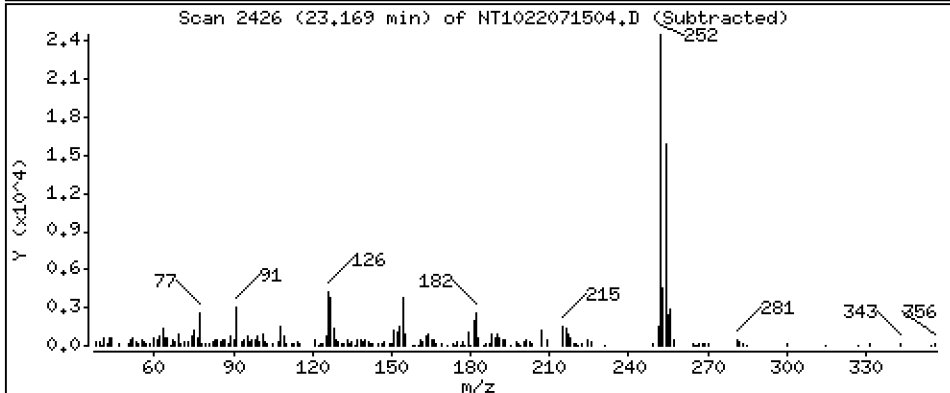
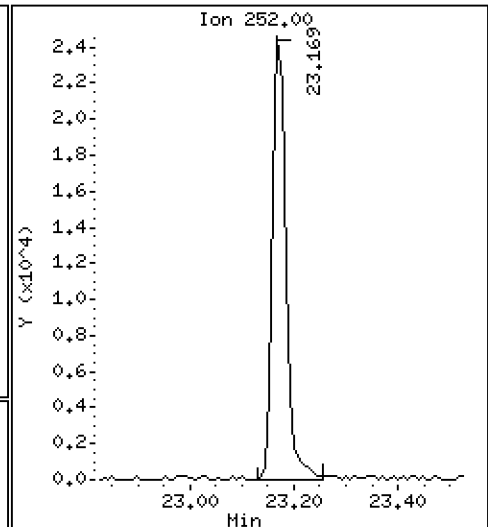
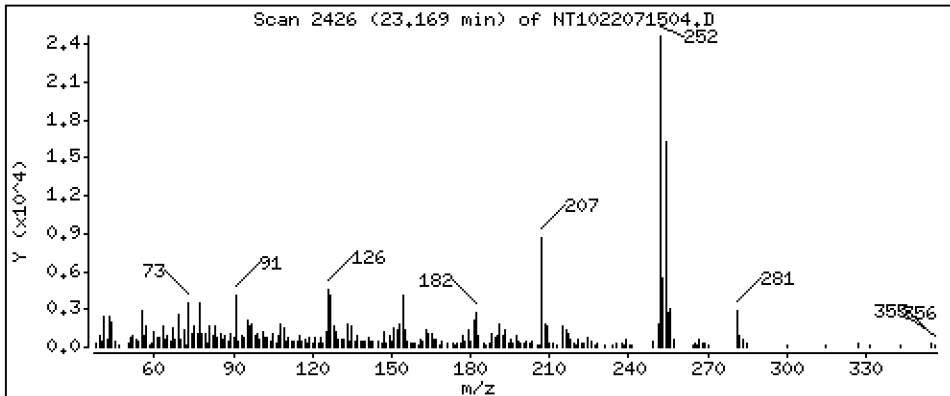
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,6433 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

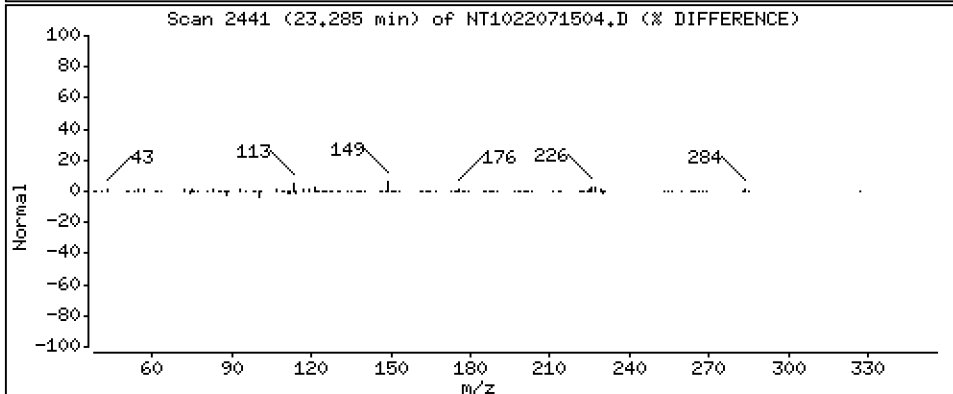
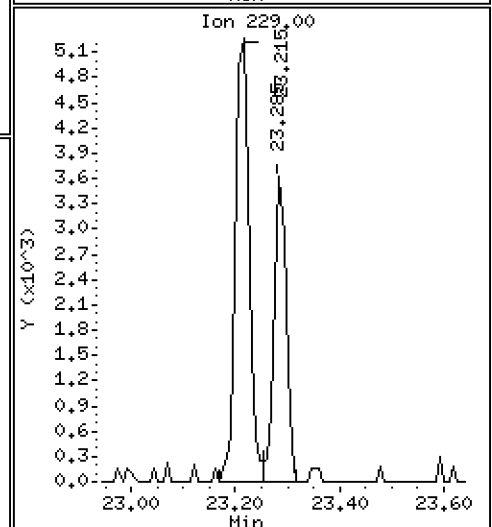
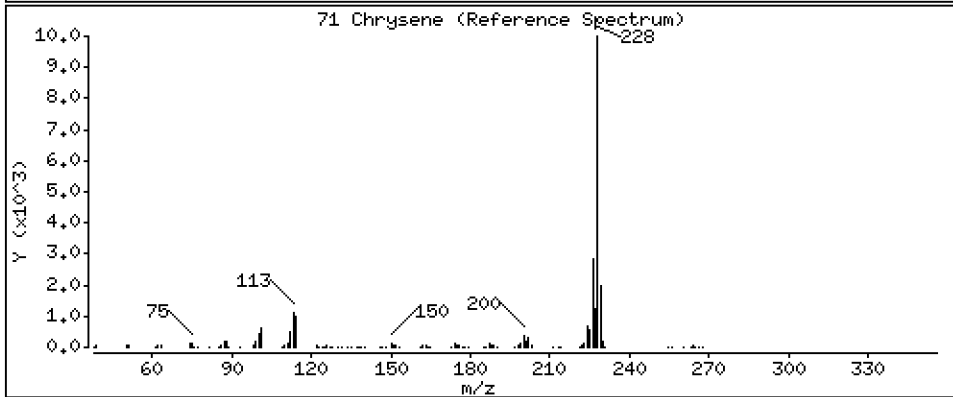
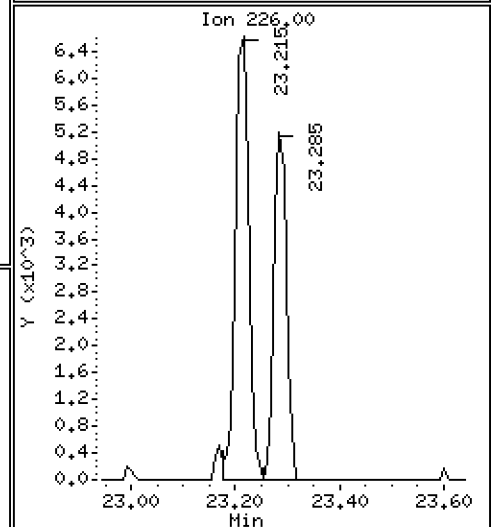
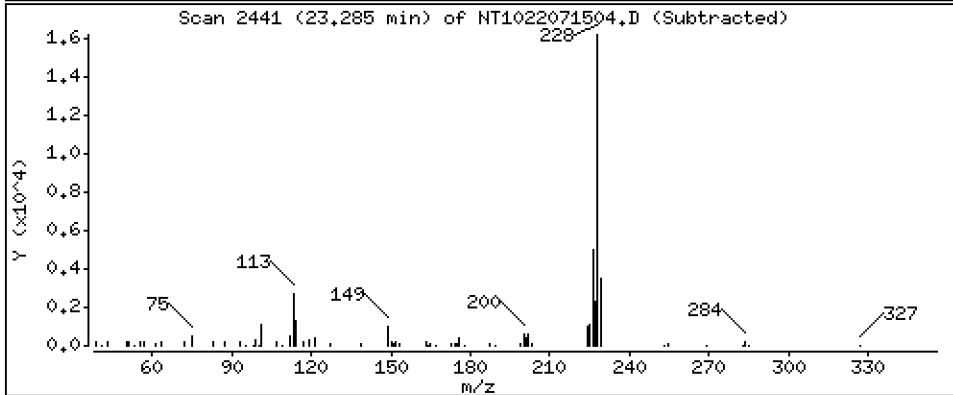
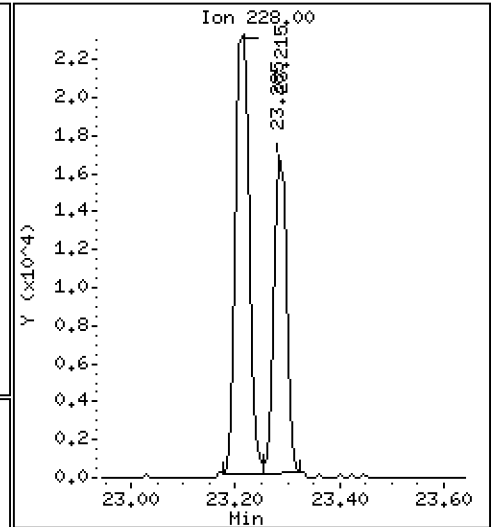
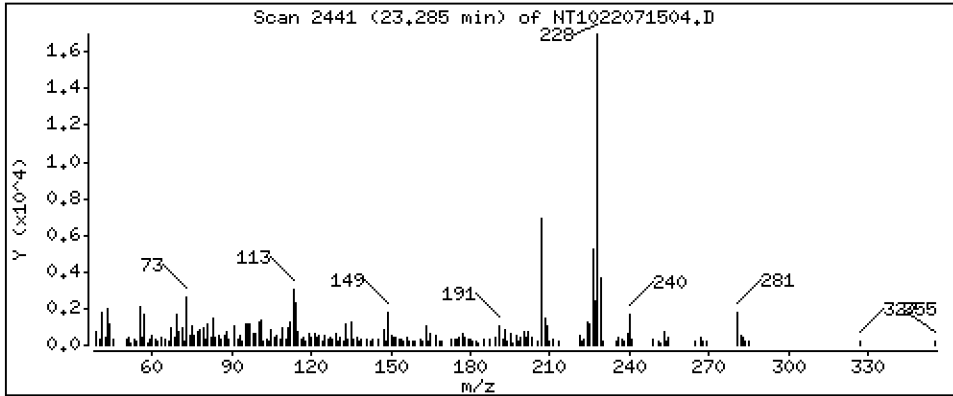
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,1978 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

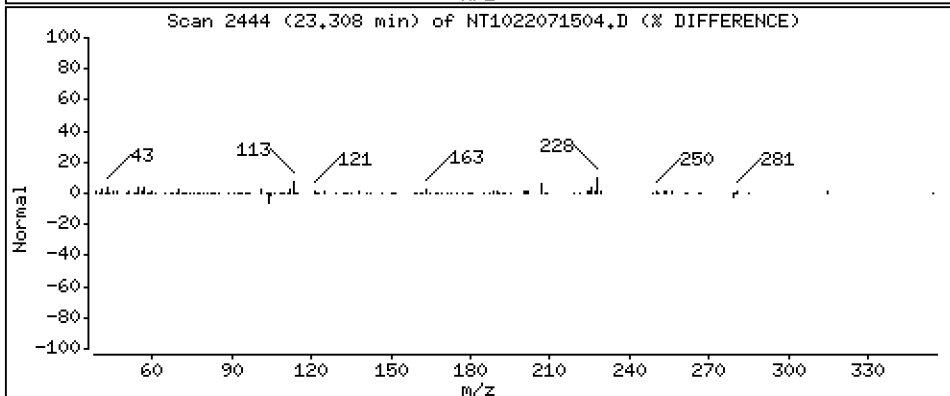
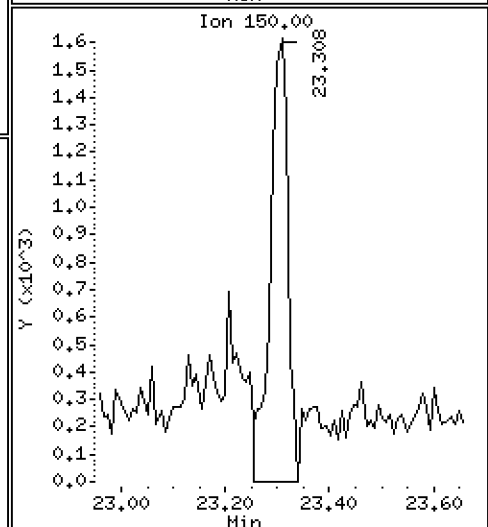
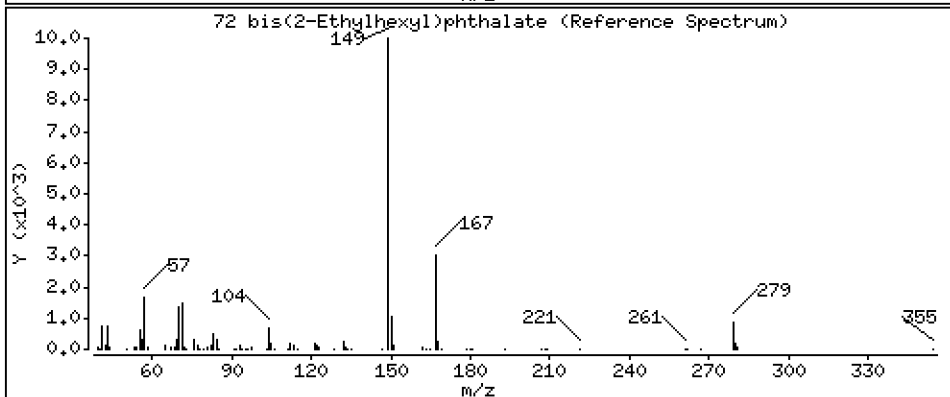
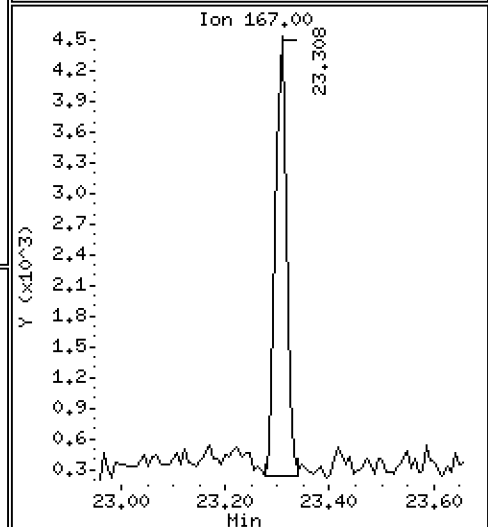
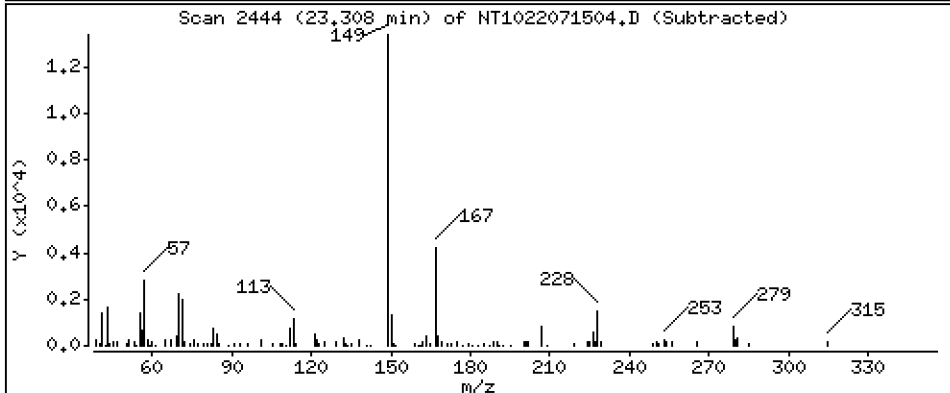
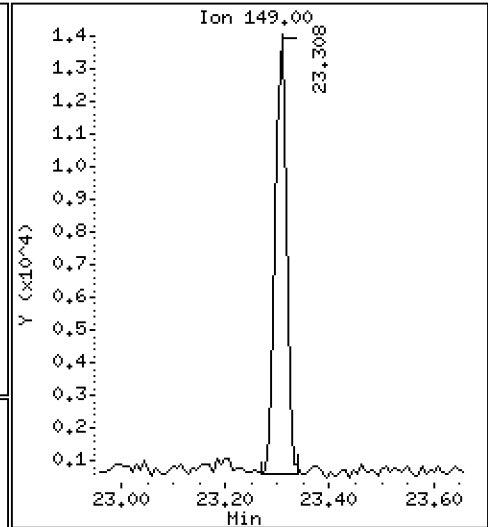
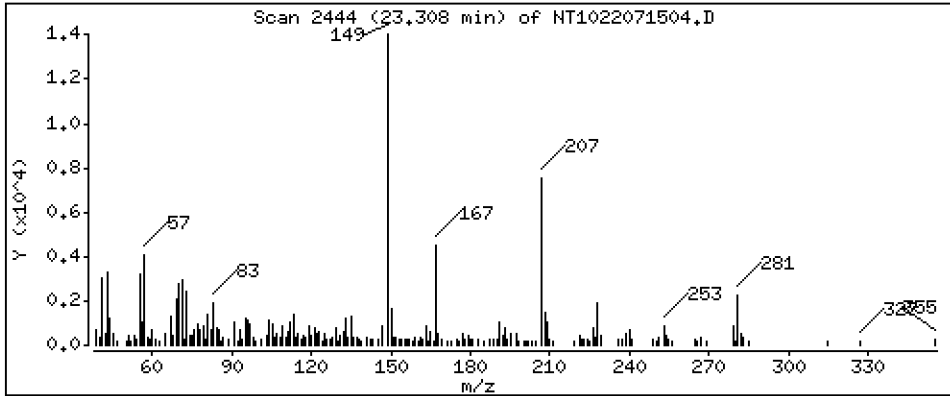
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,3144 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

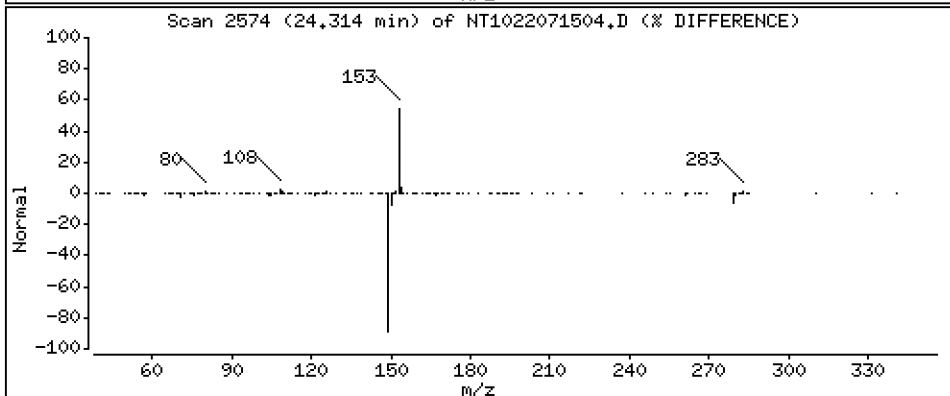
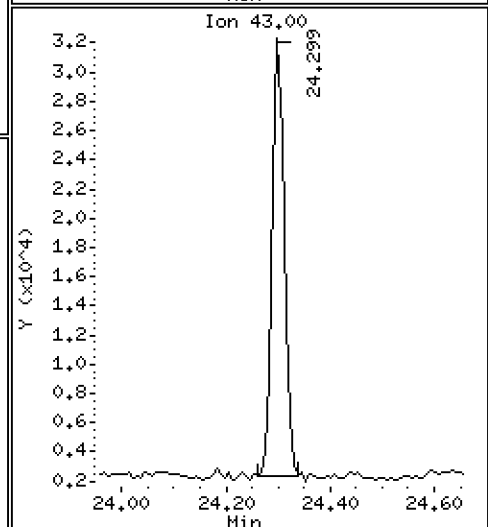
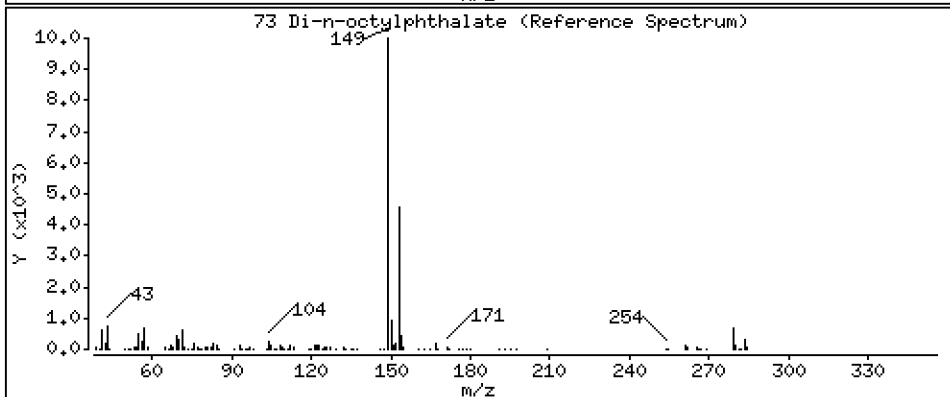
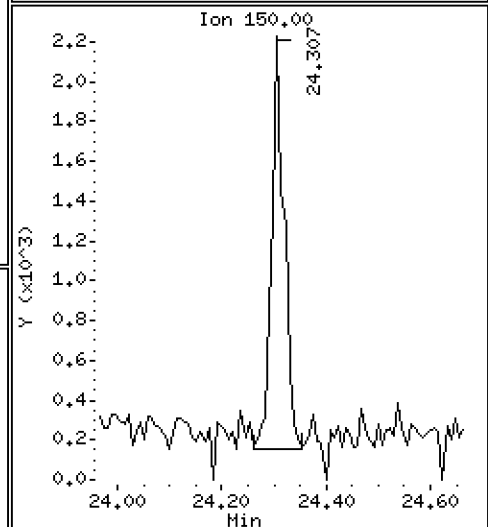
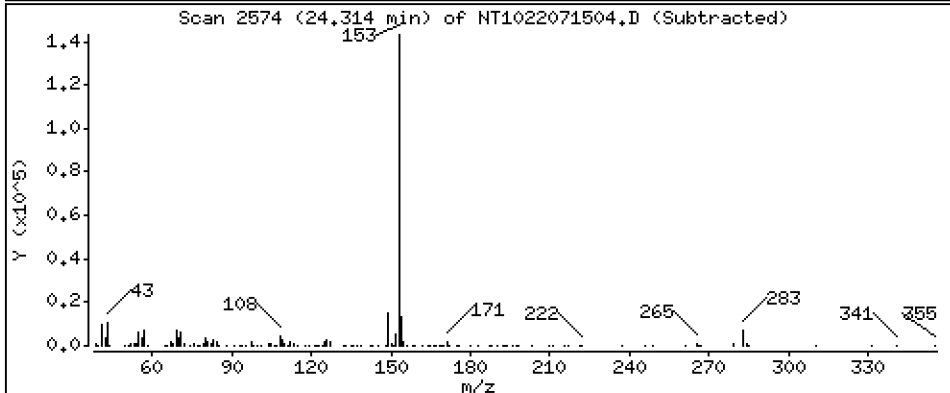
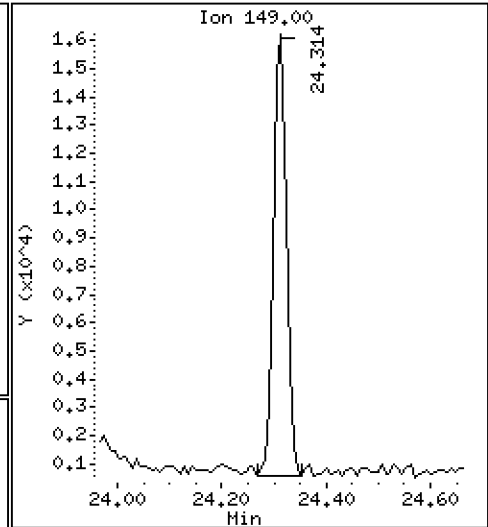
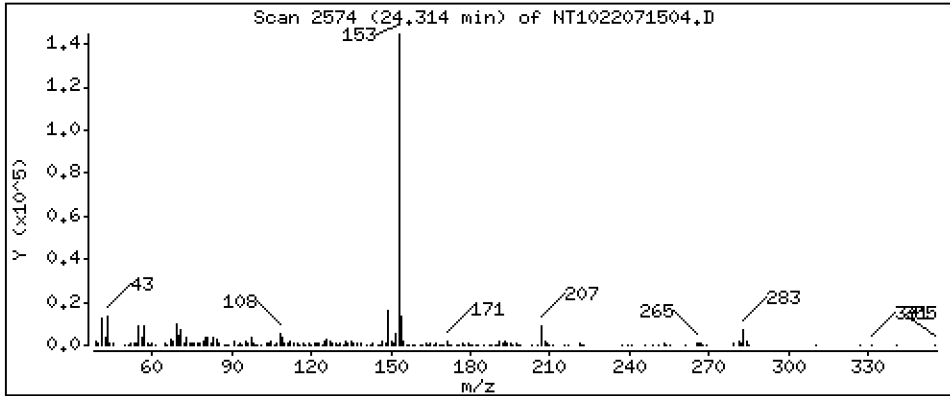
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2081 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

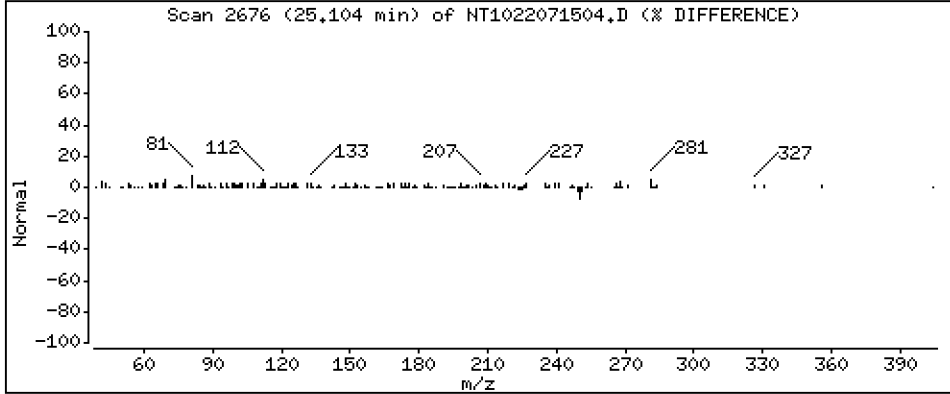
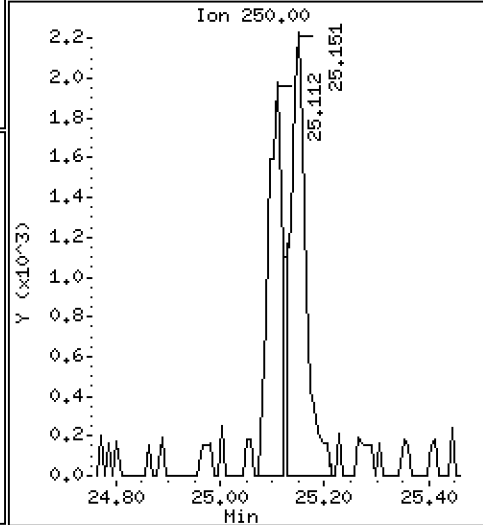
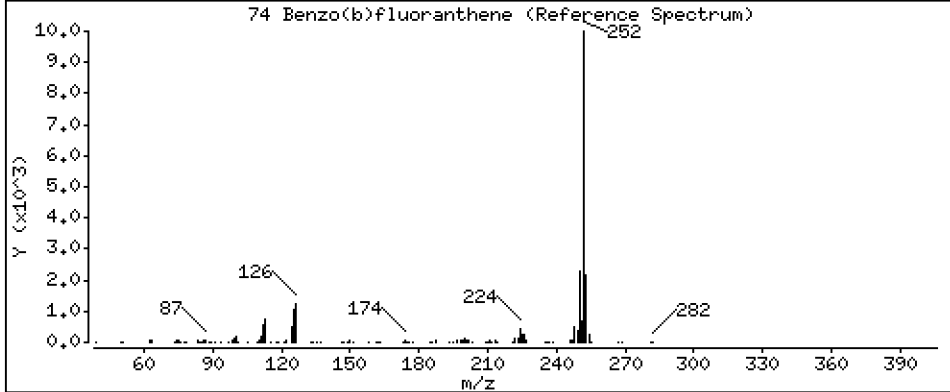
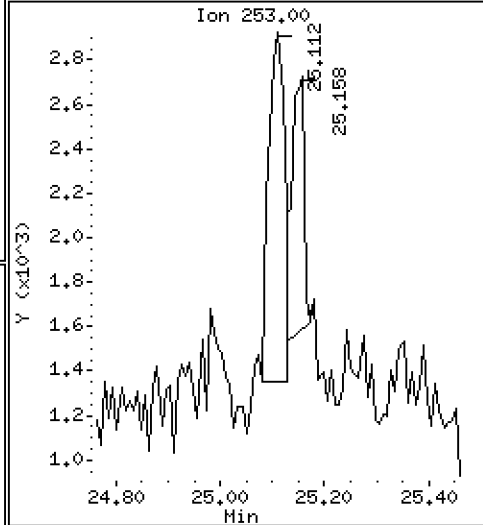
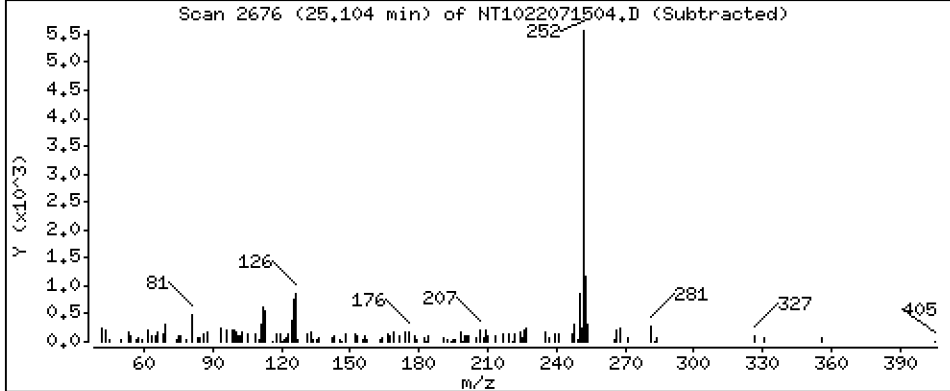
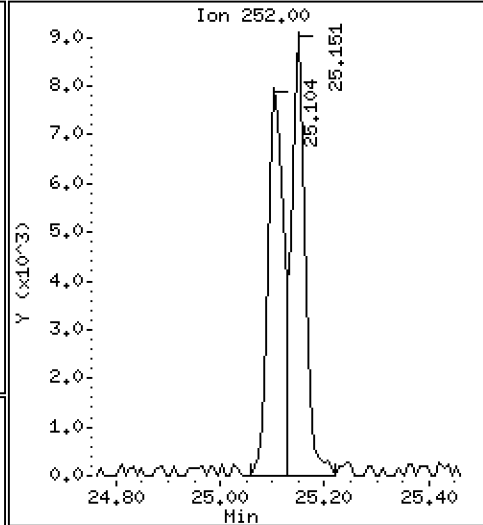
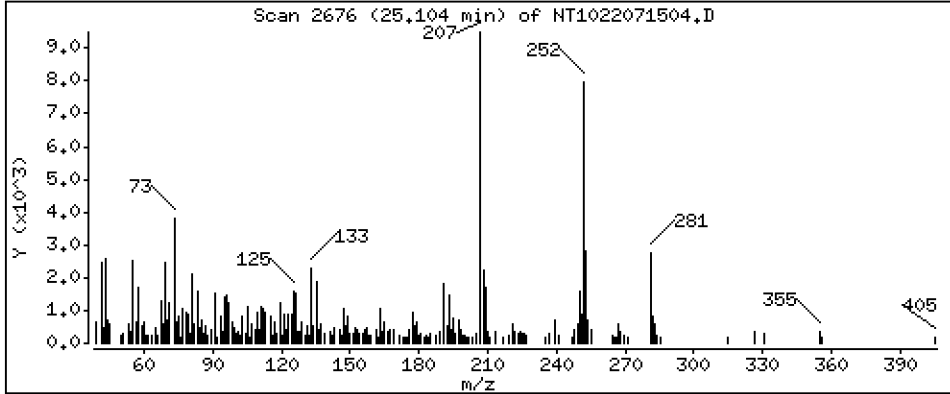
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,1781 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

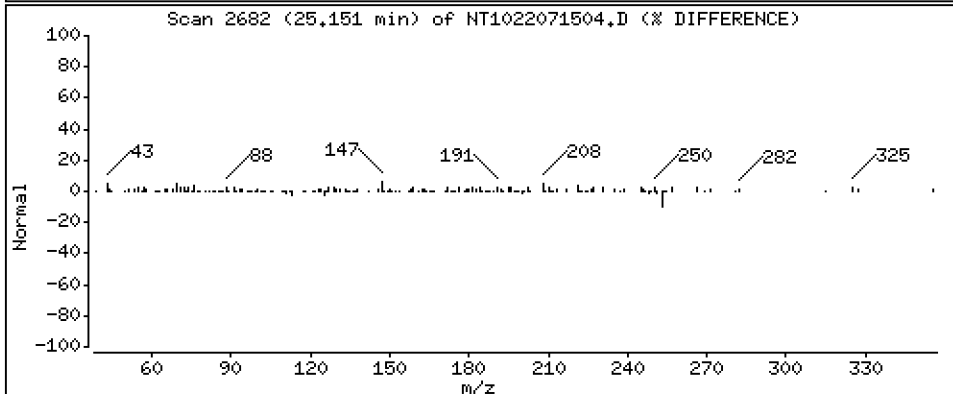
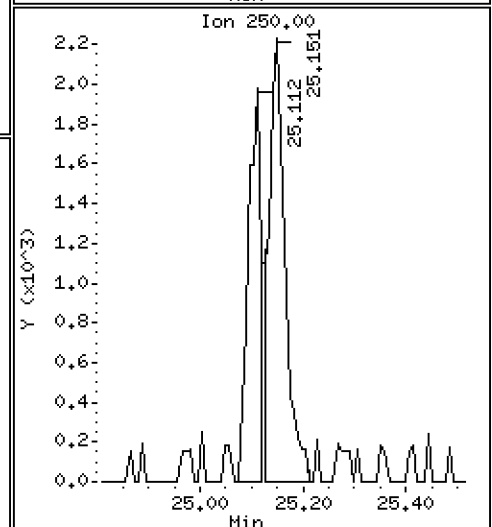
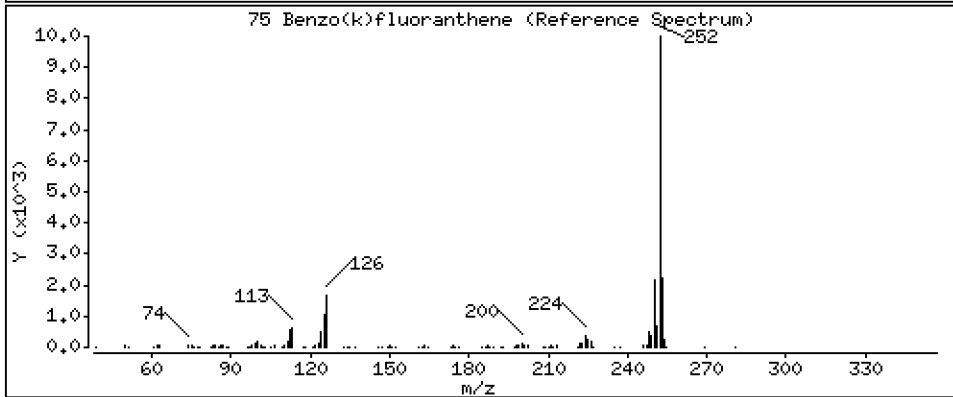
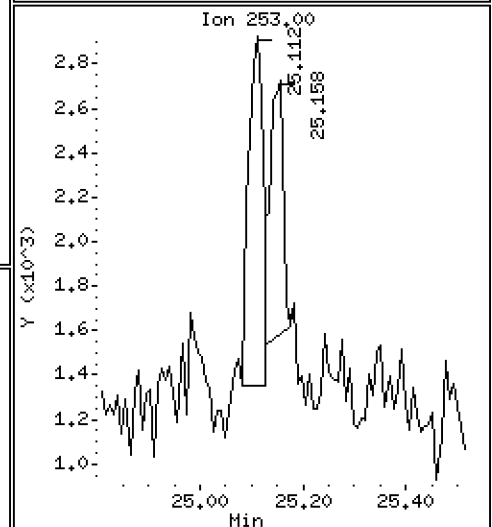
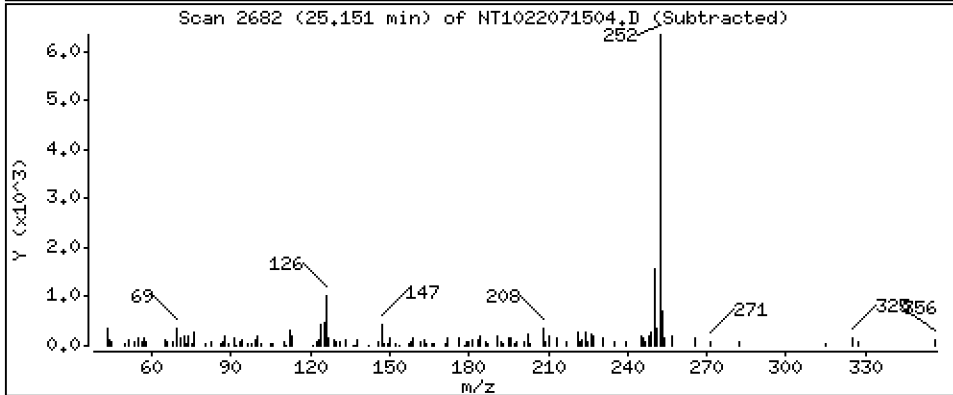
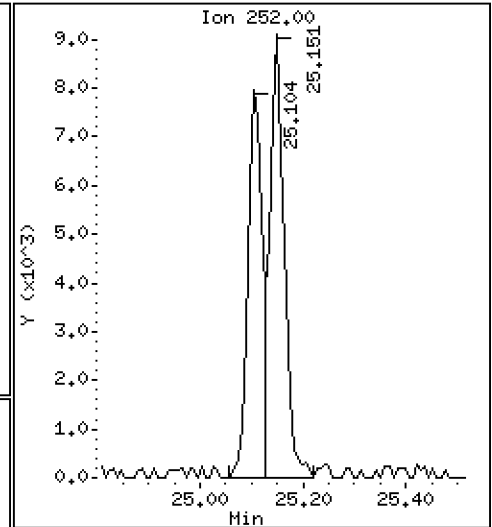
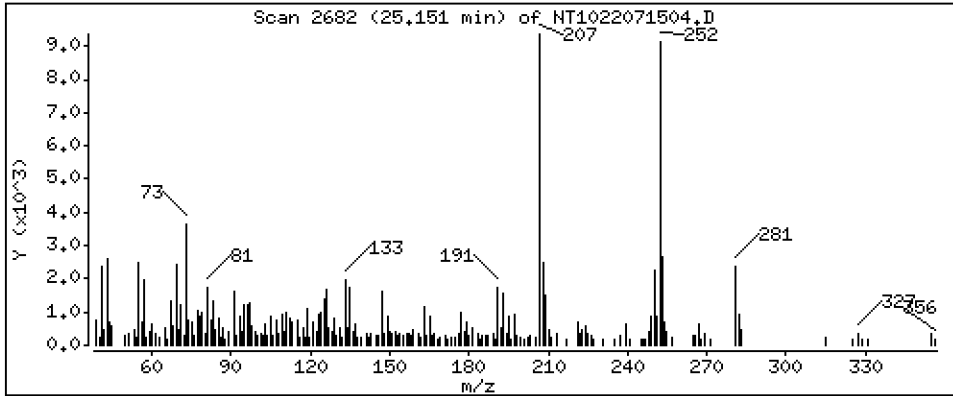
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2070 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

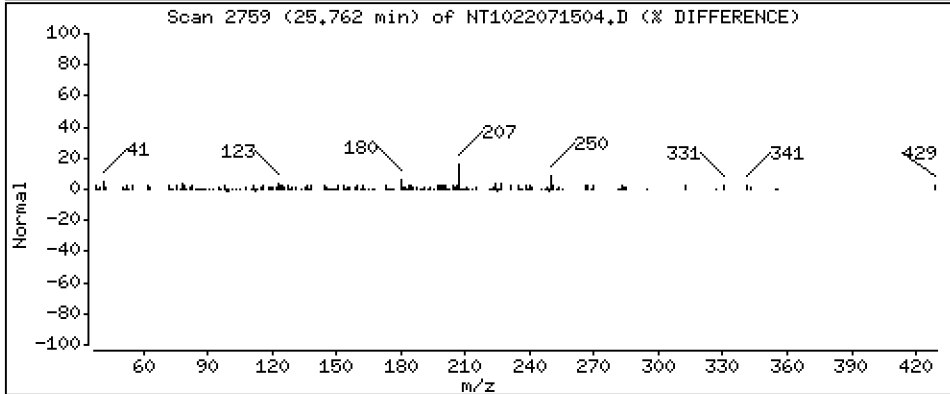
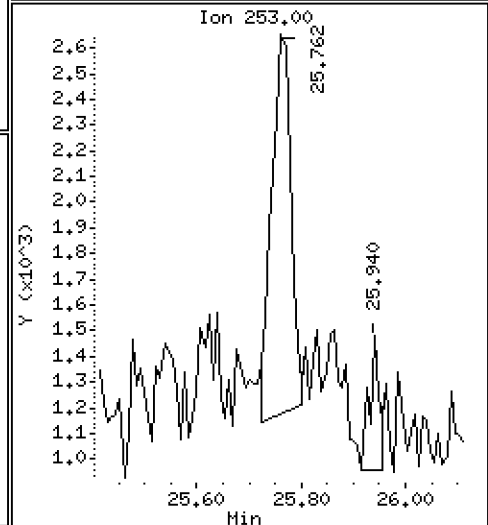
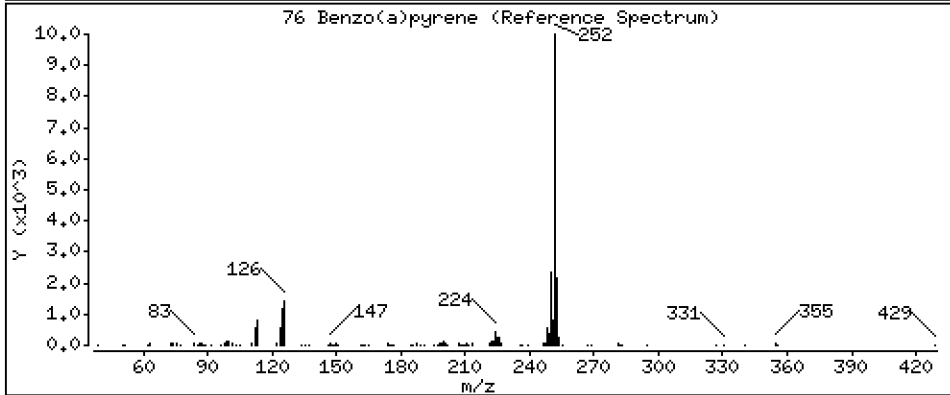
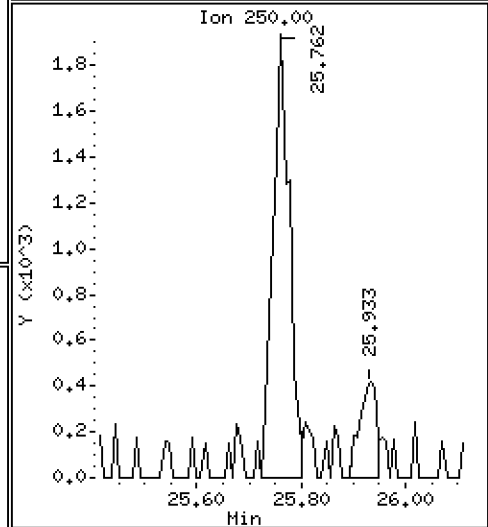
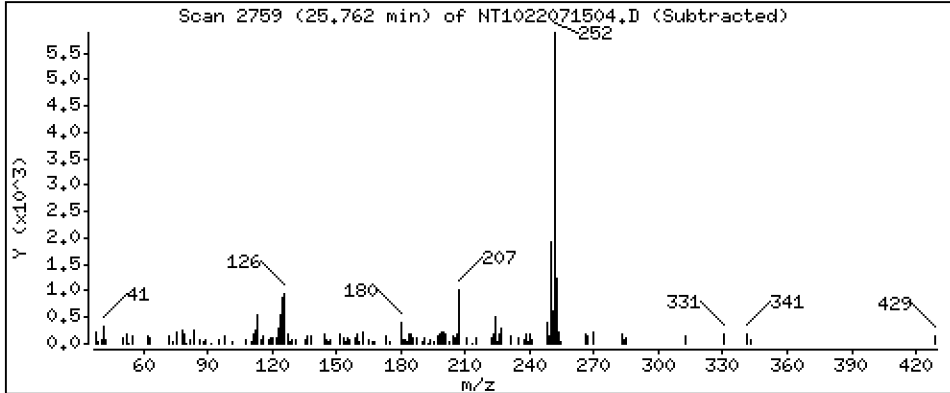
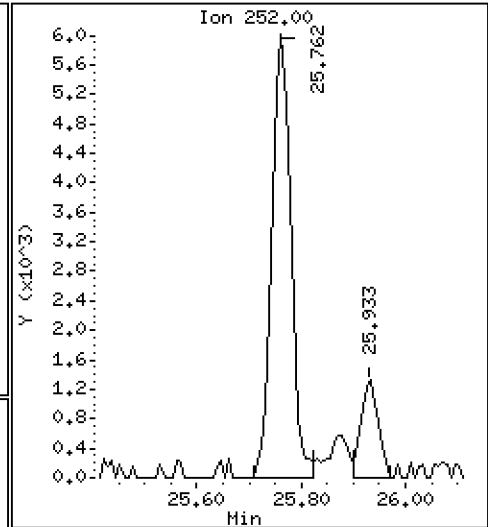
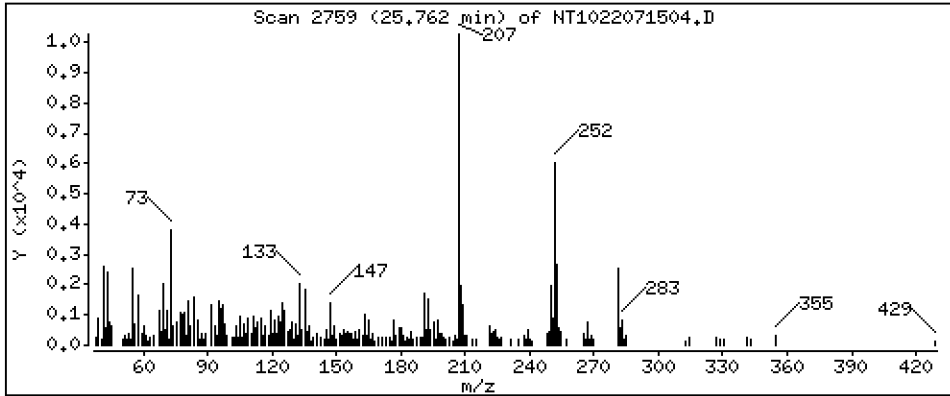
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,1996 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

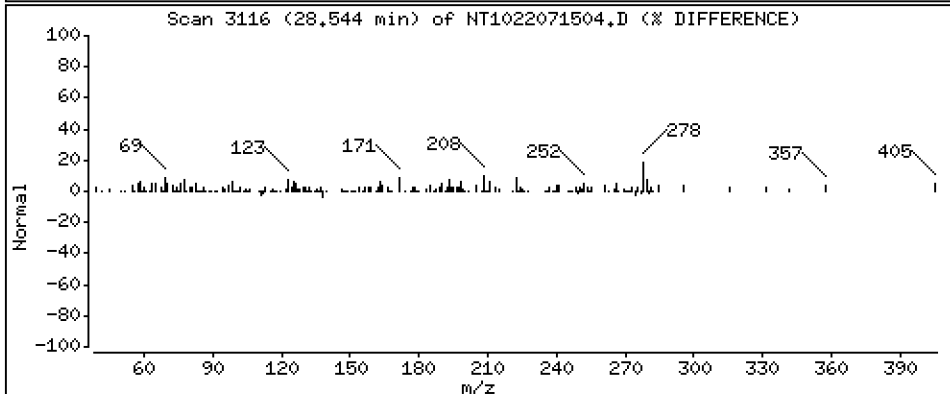
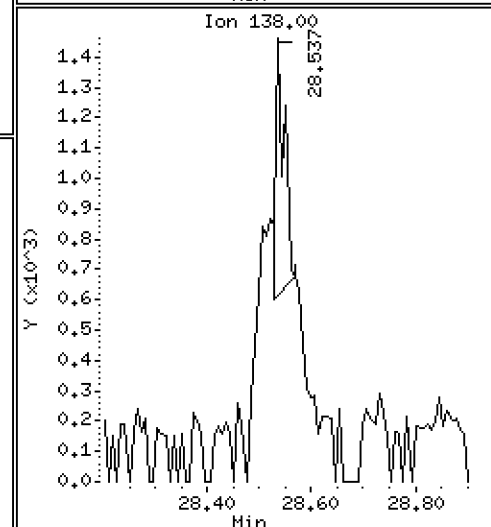
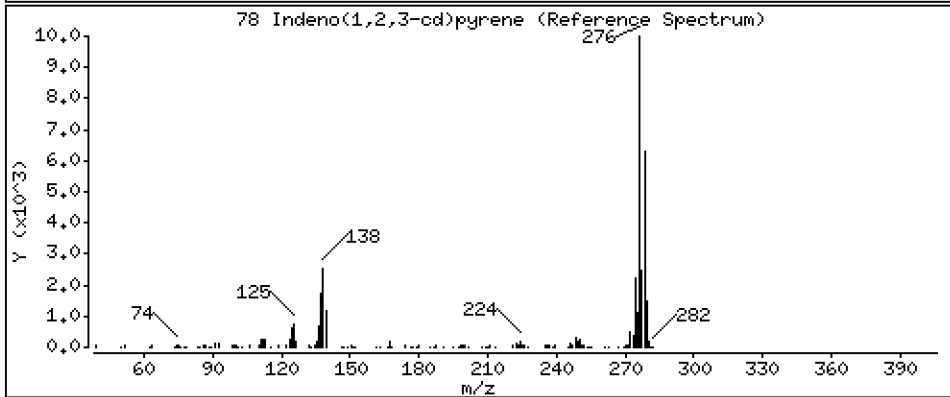
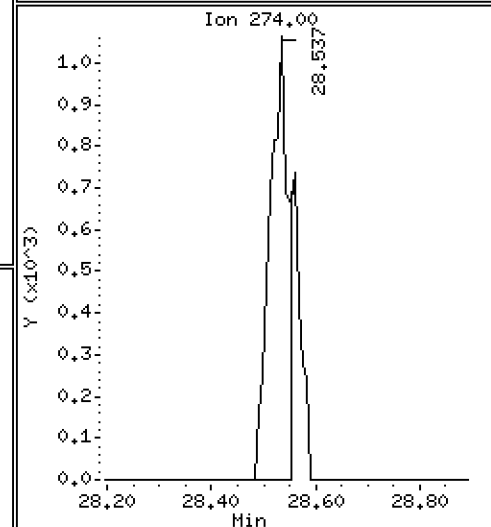
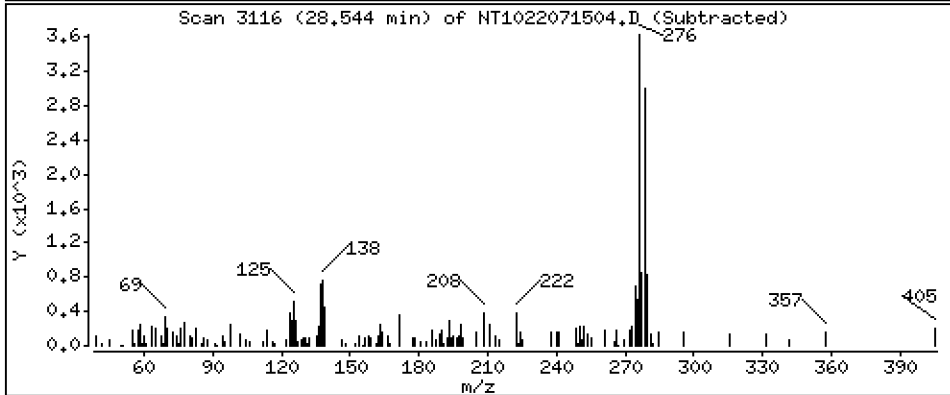
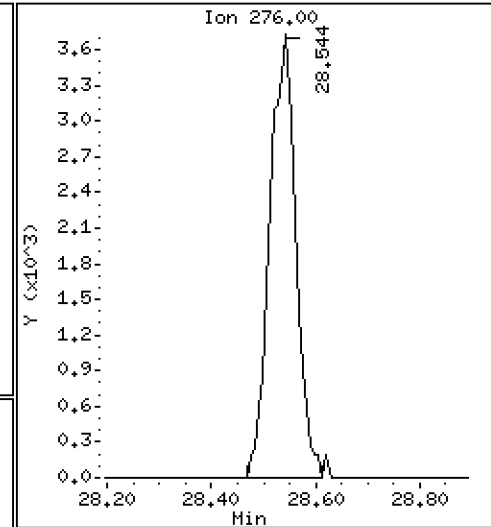
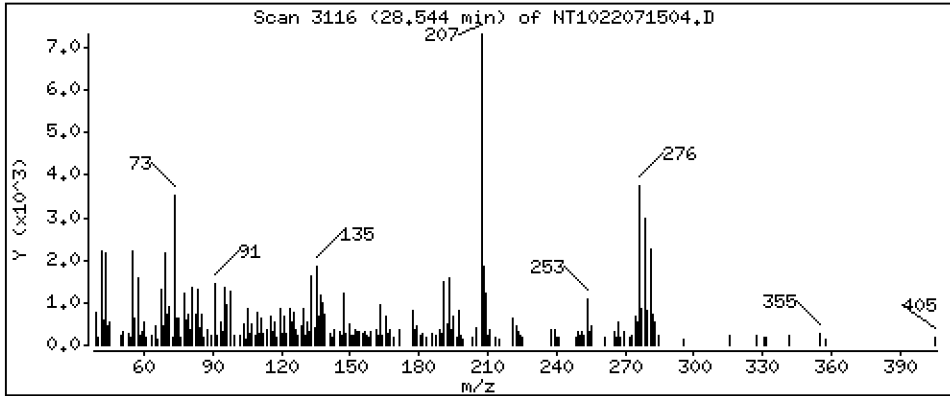
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,1625 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

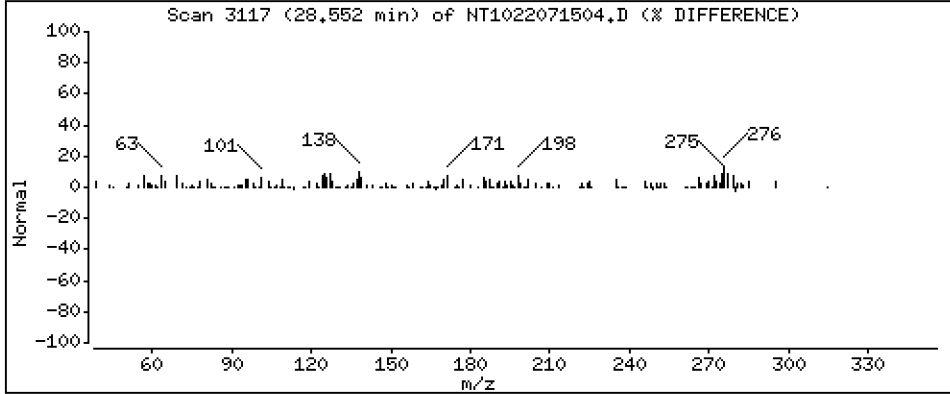
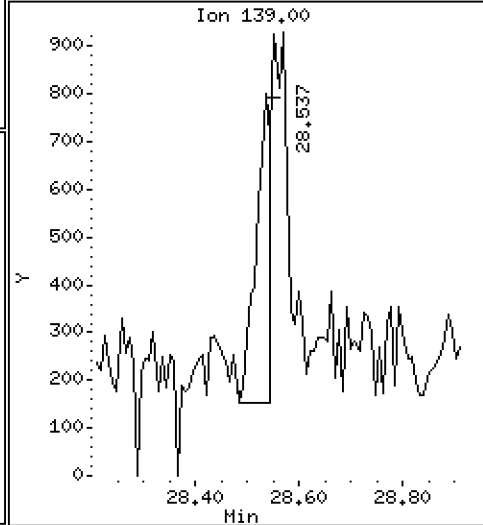
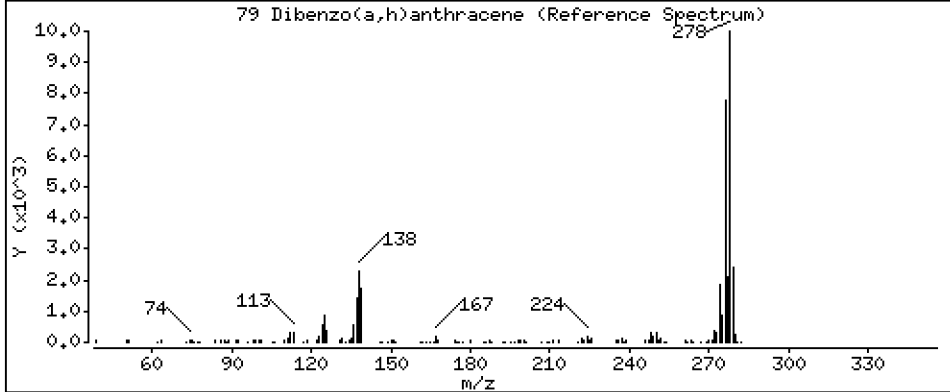
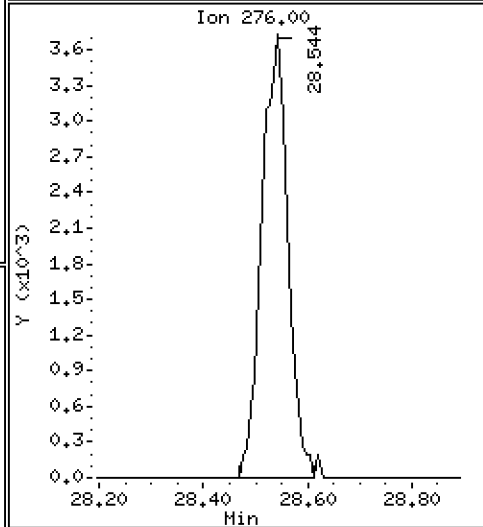
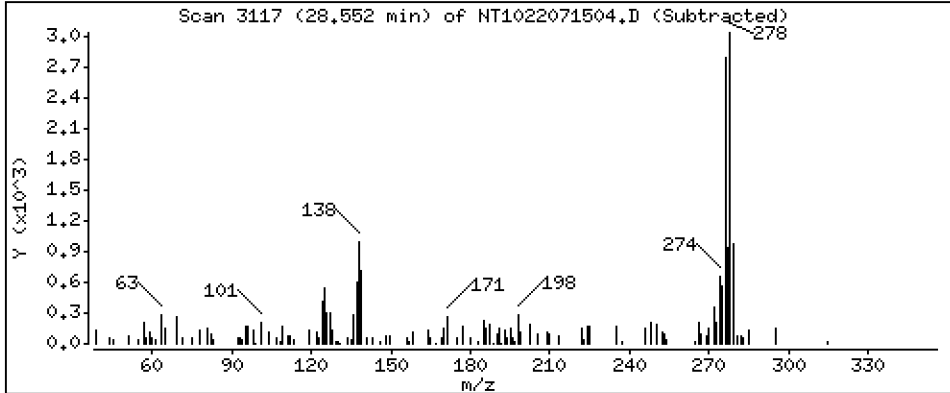
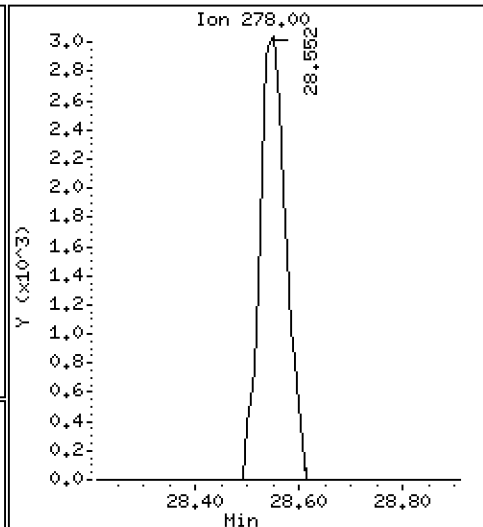
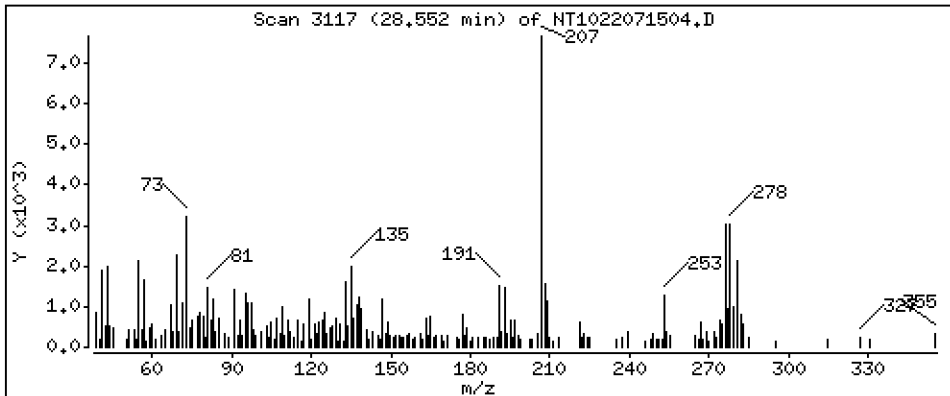
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1741 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

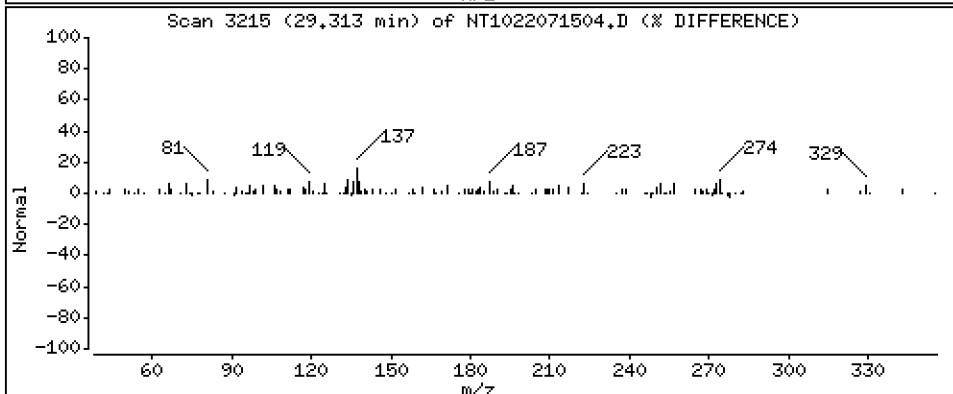
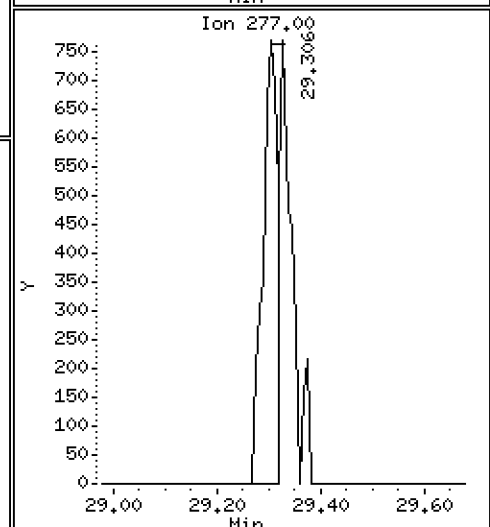
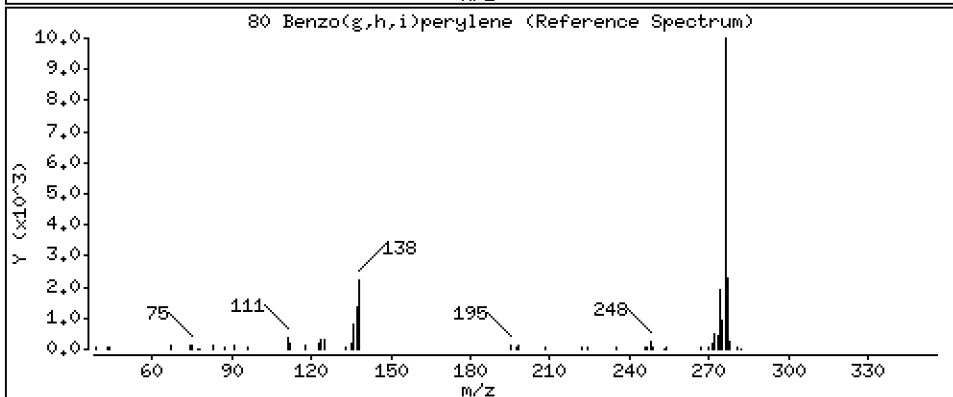
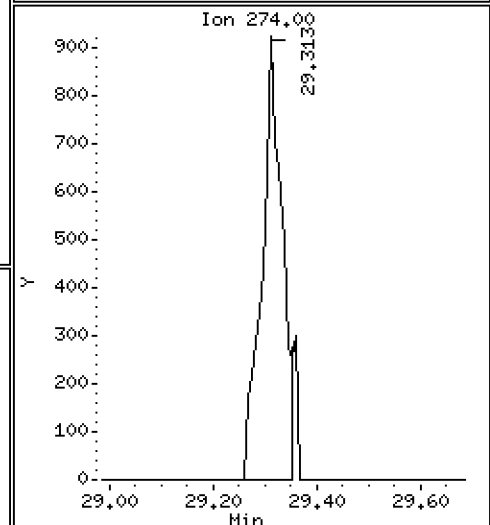
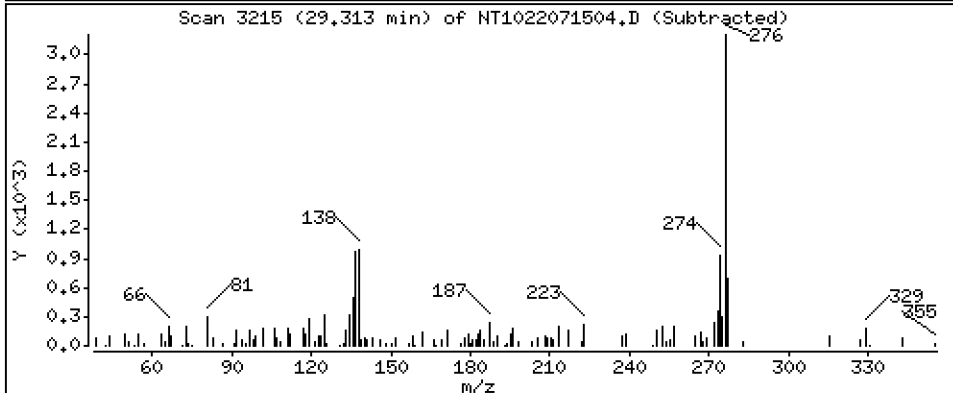
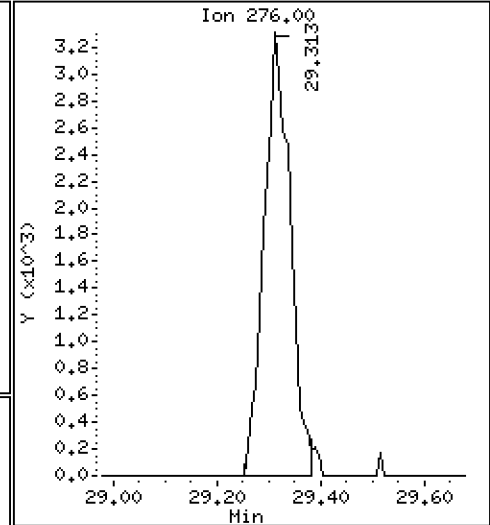
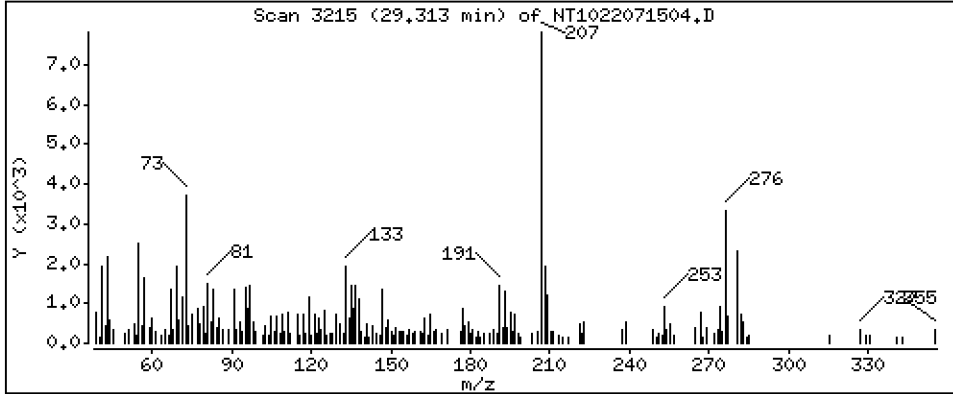
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1817 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

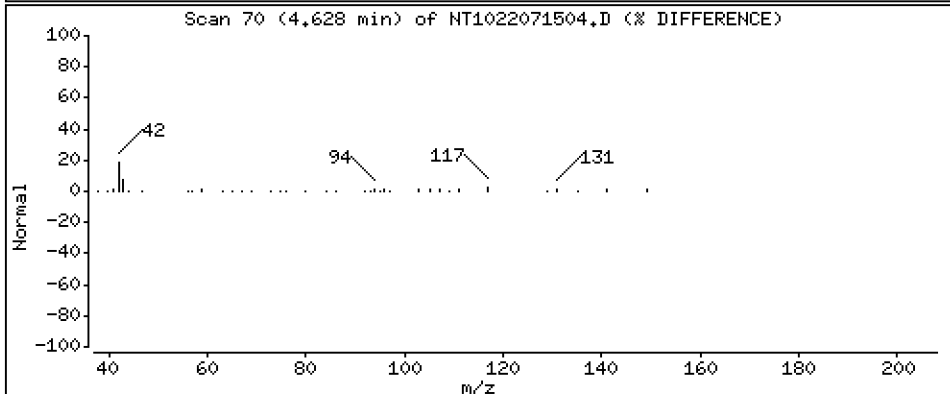
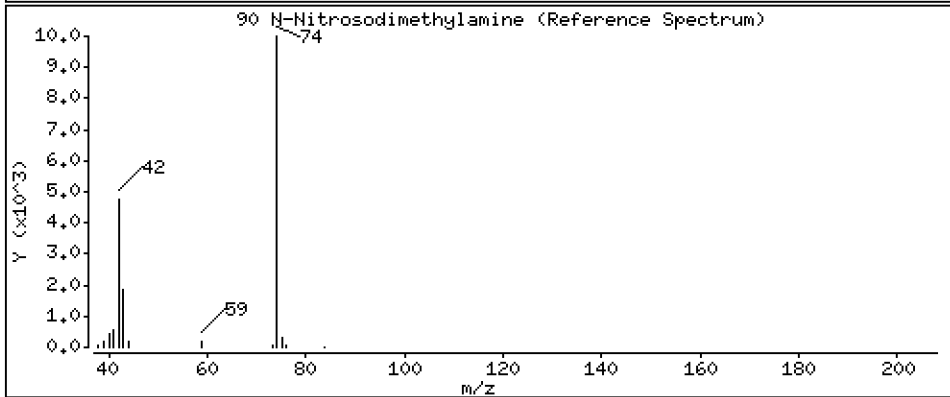
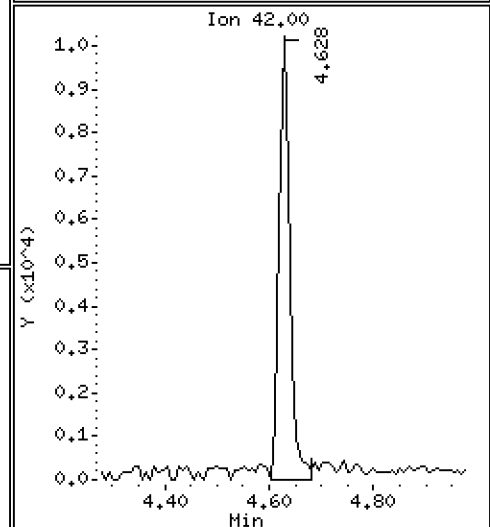
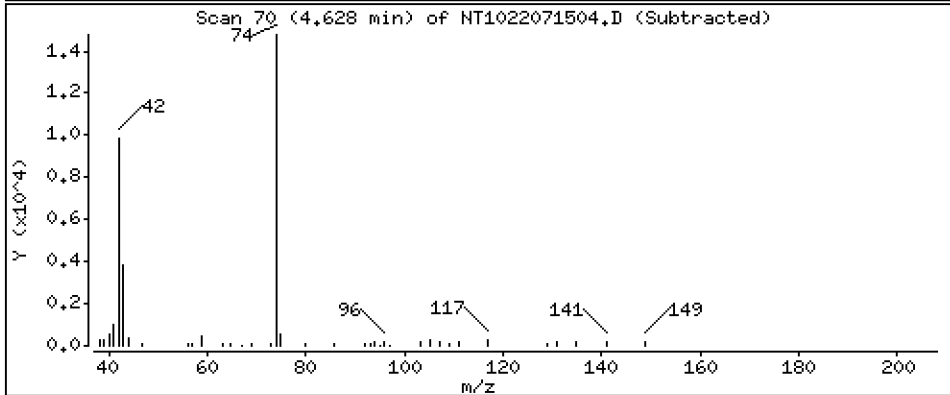
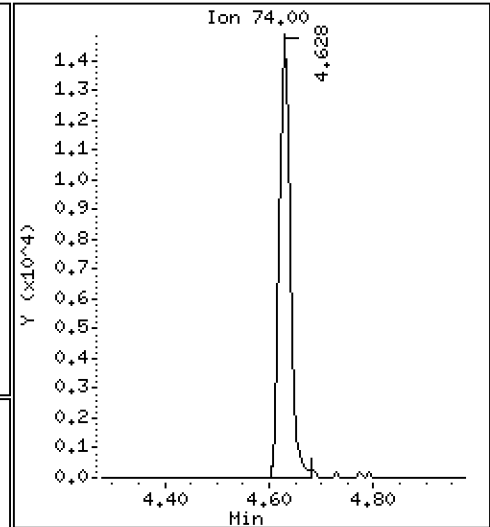
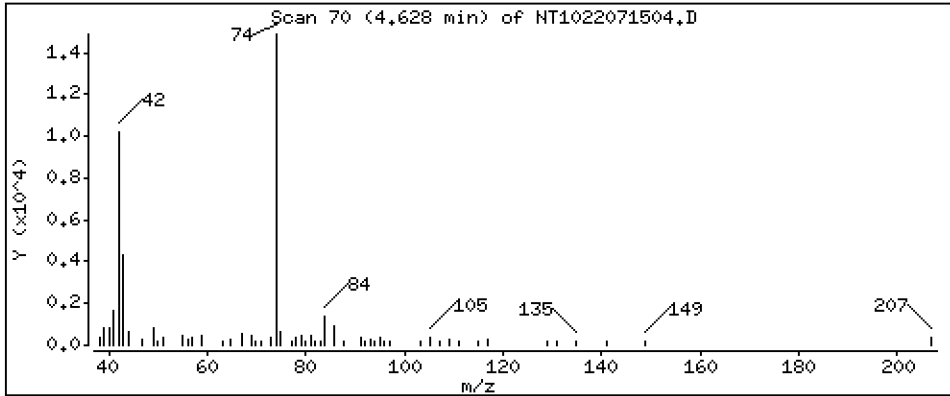
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 0.2749 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

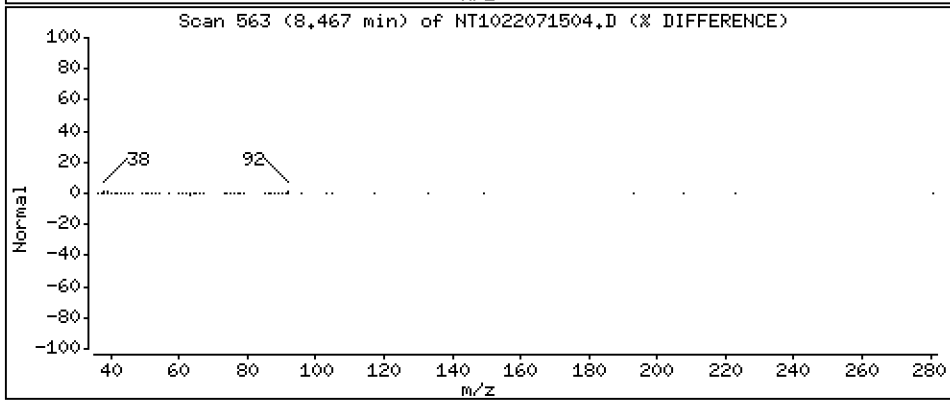
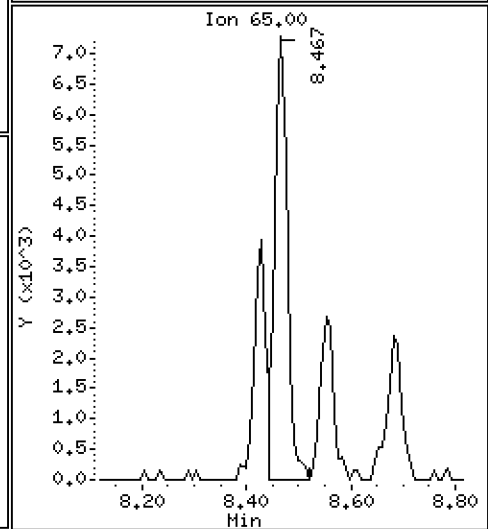
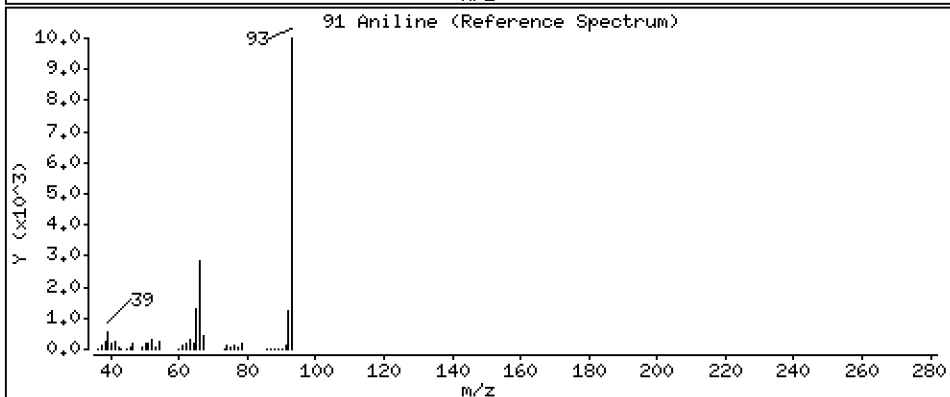
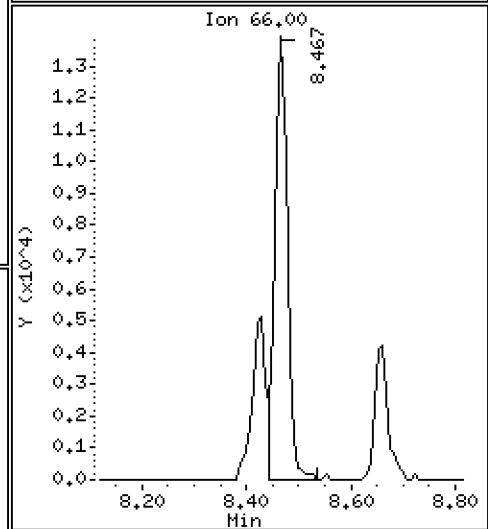
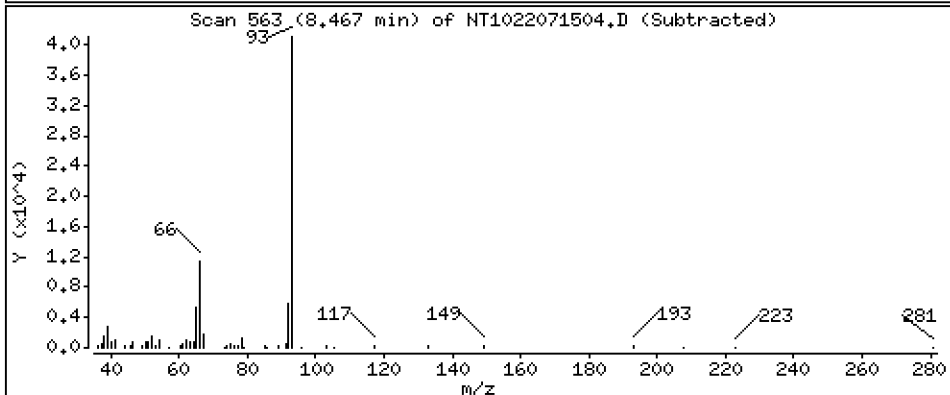
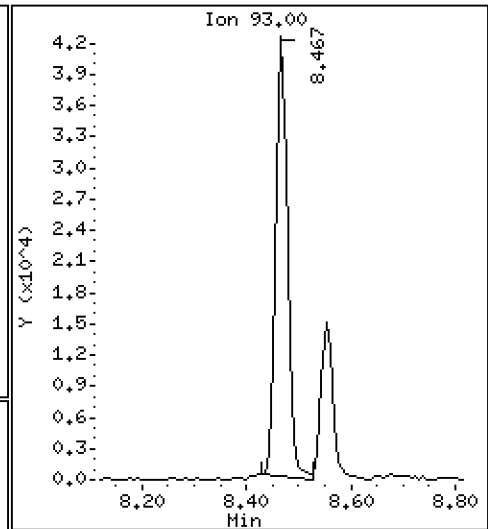
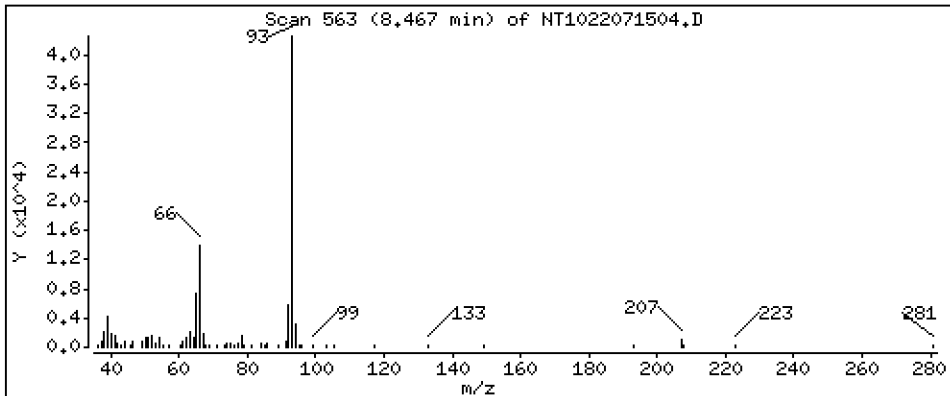
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,4293 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

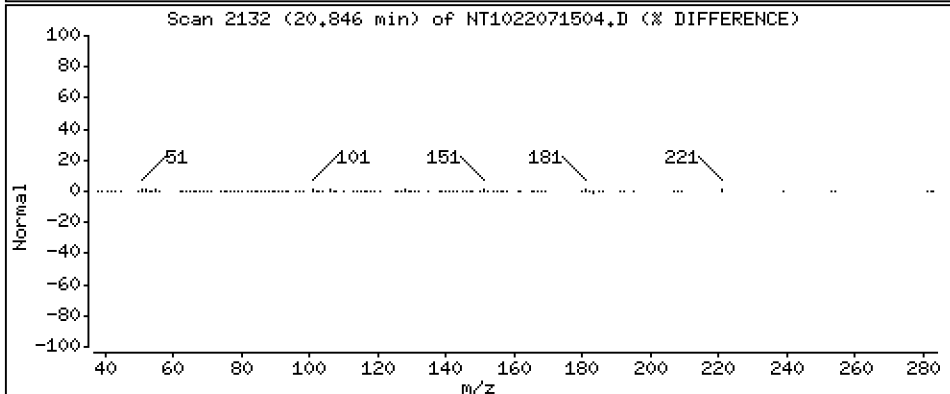
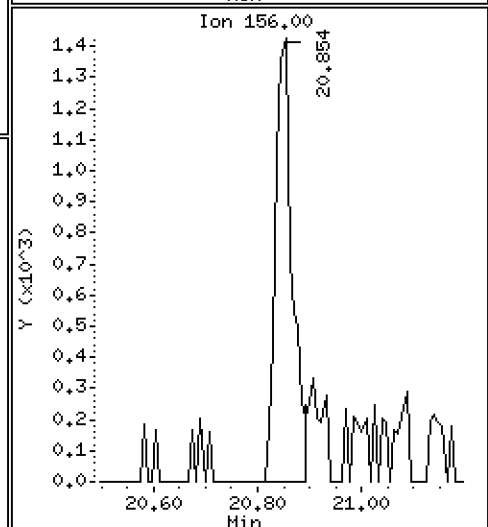
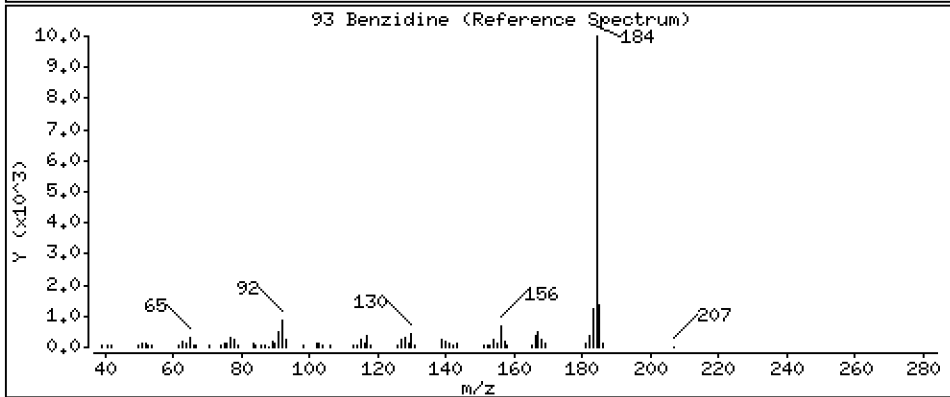
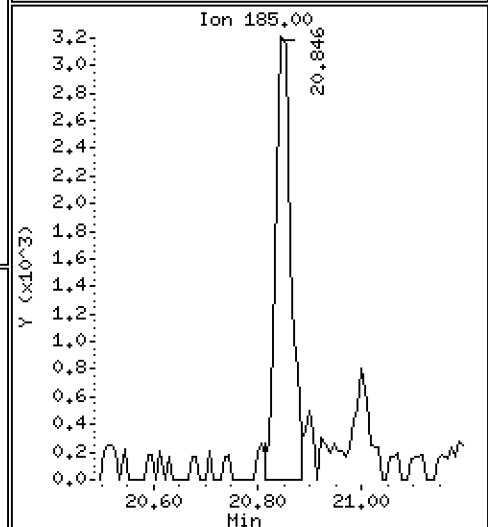
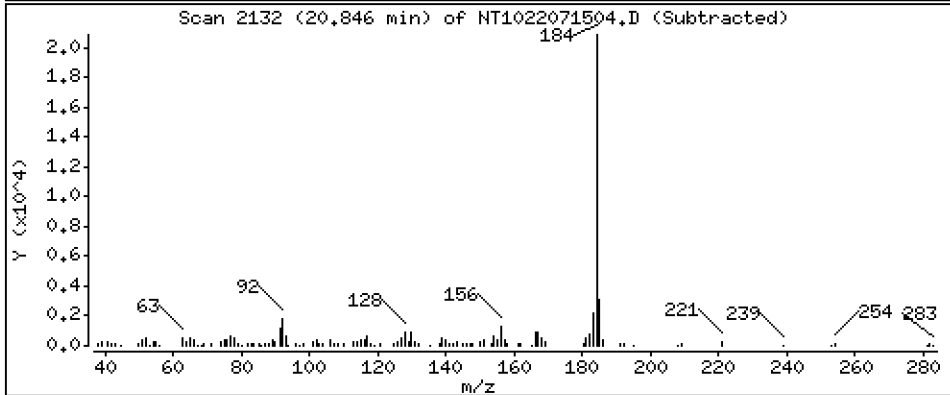
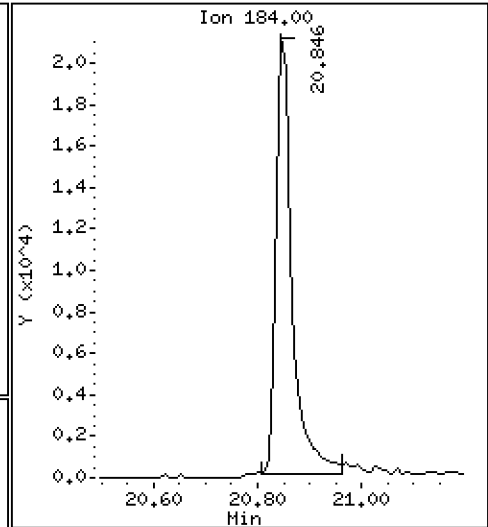
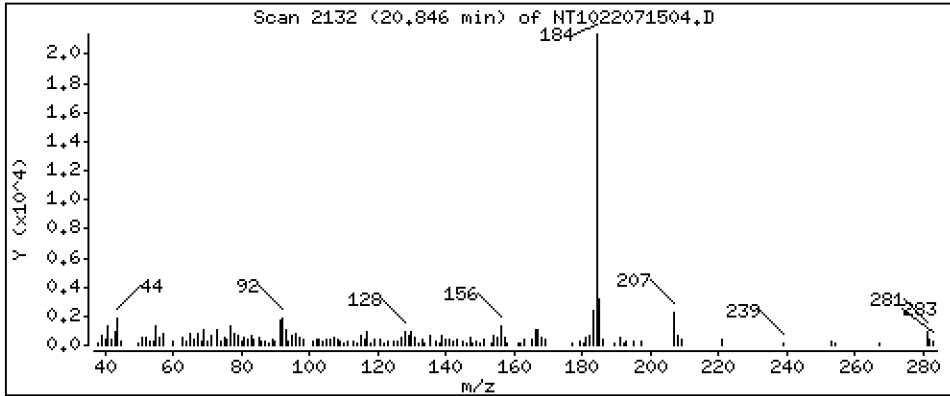
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,6128 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

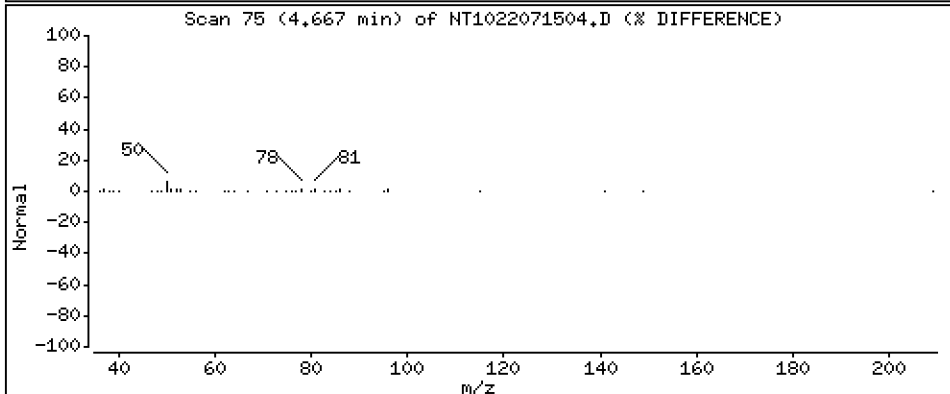
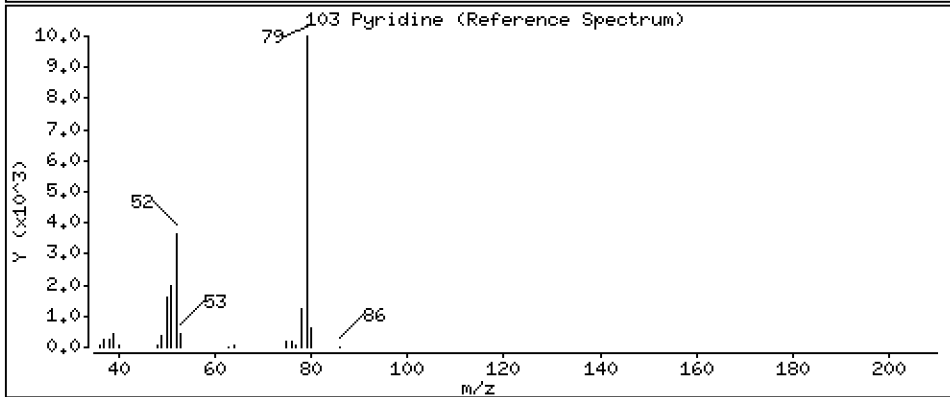
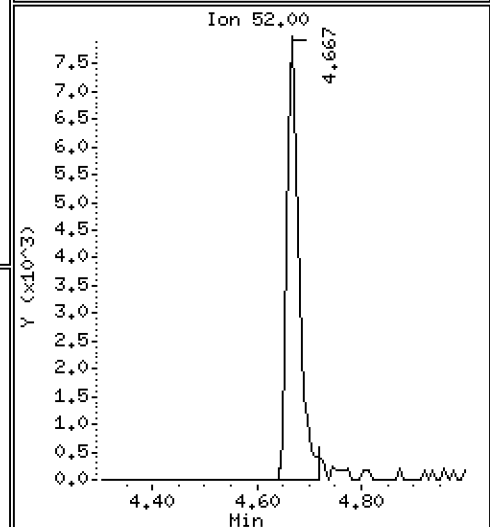
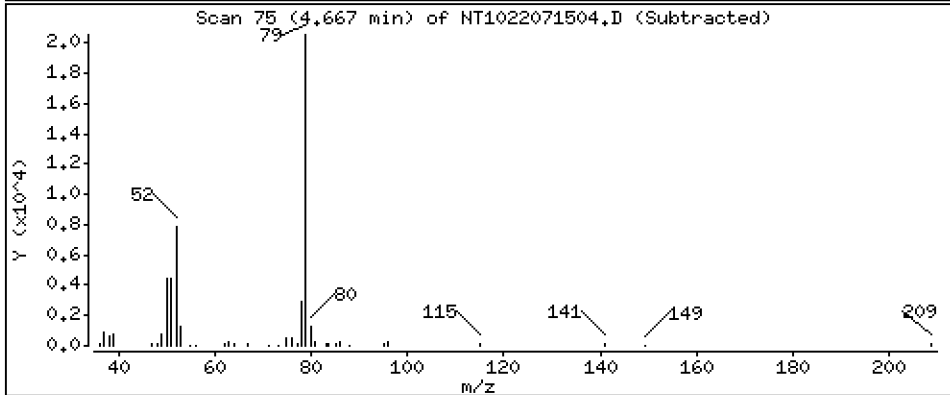
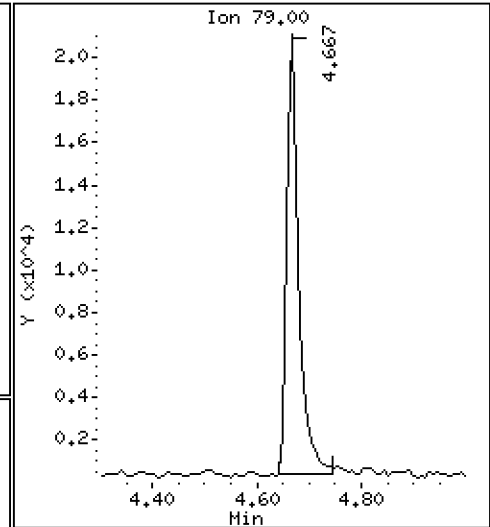
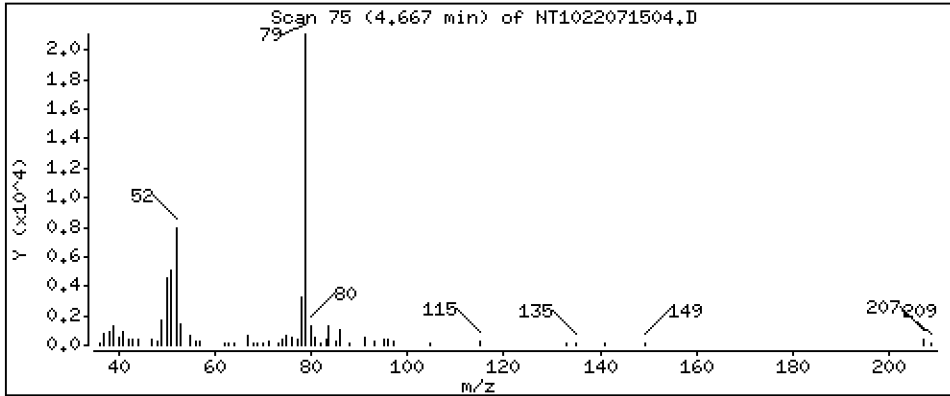
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,1557 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

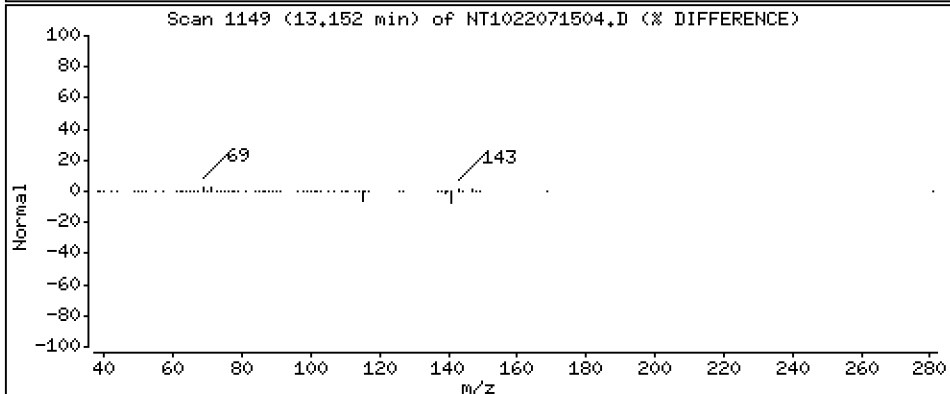
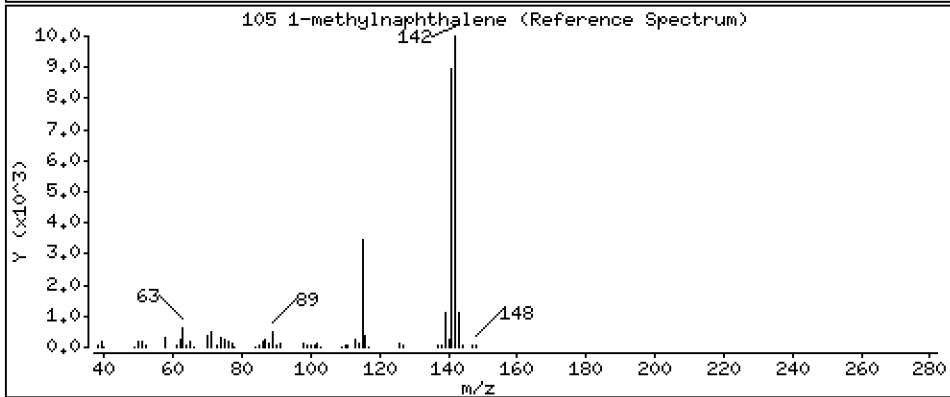
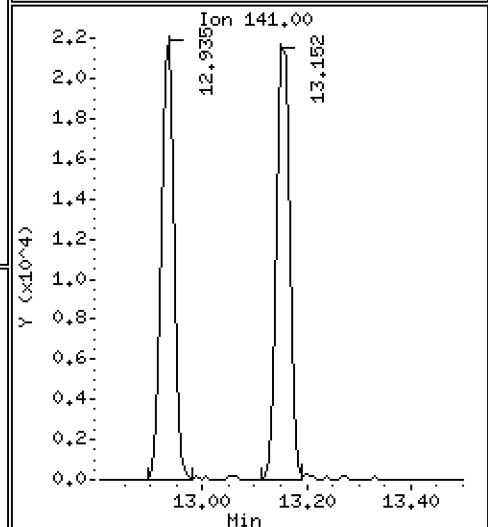
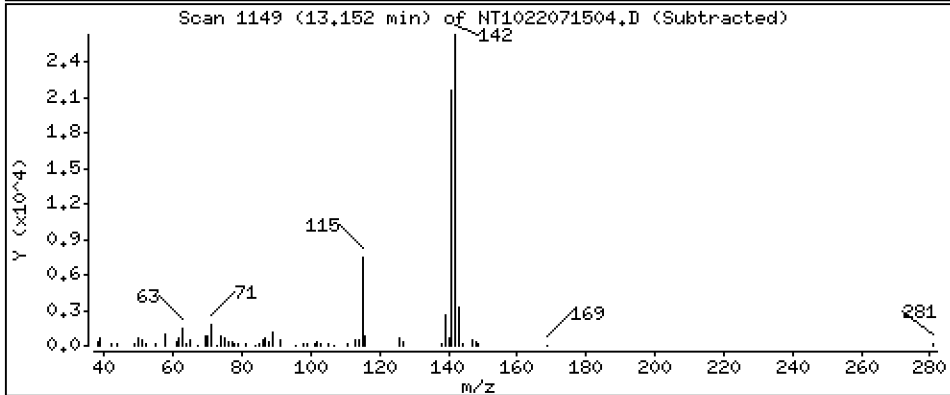
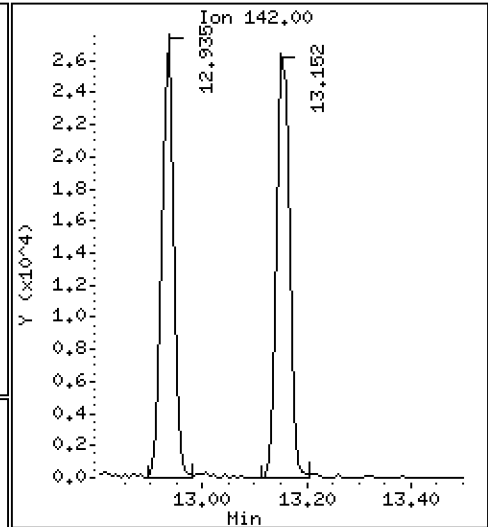
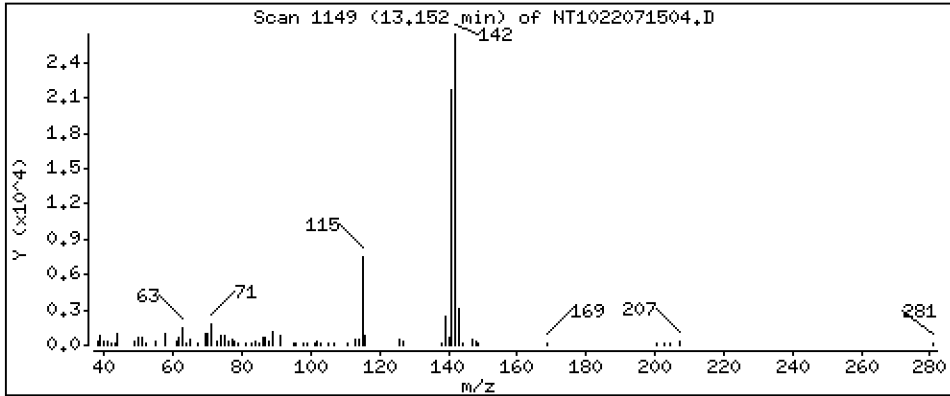
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1836 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

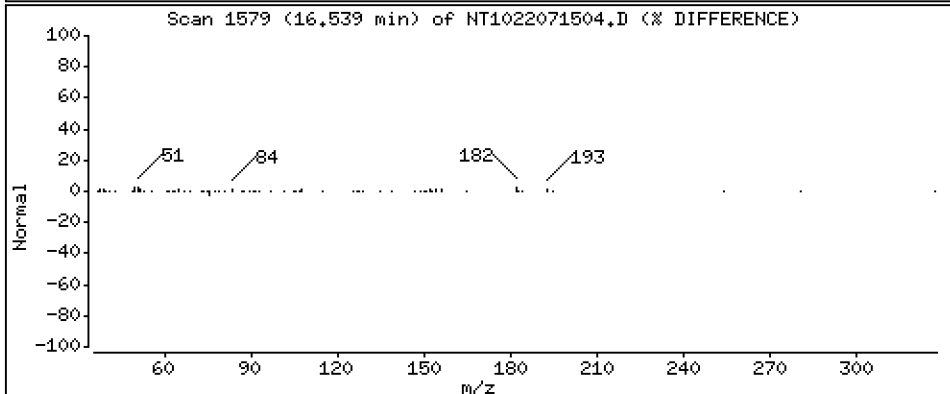
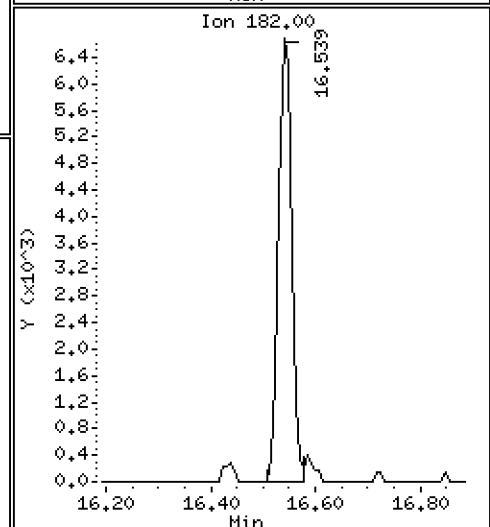
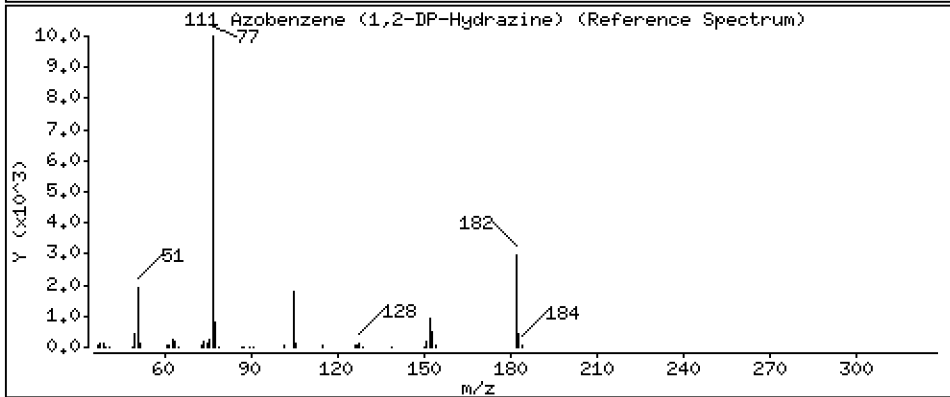
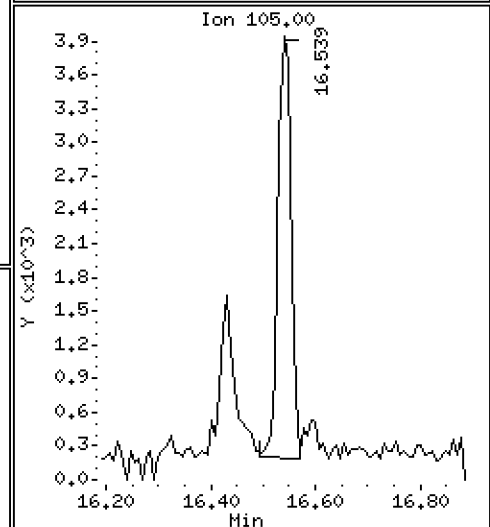
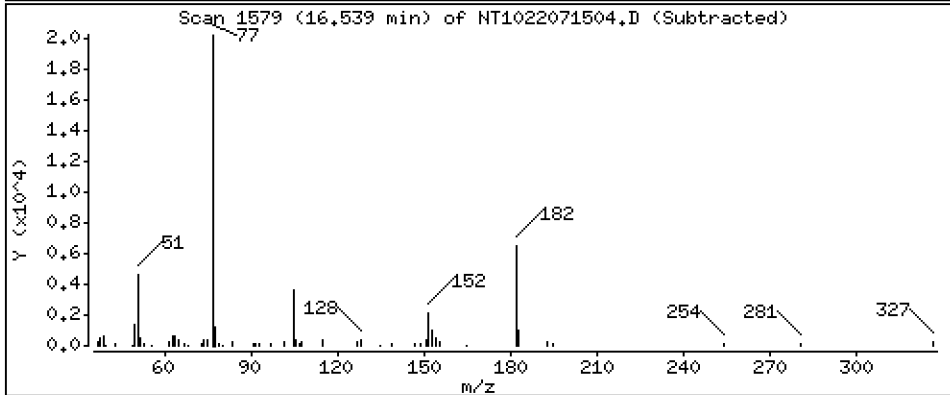
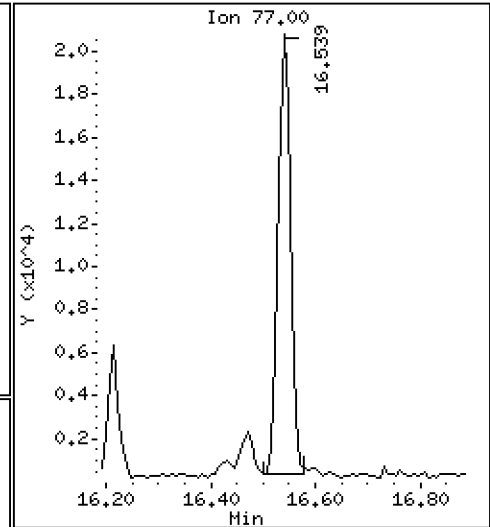
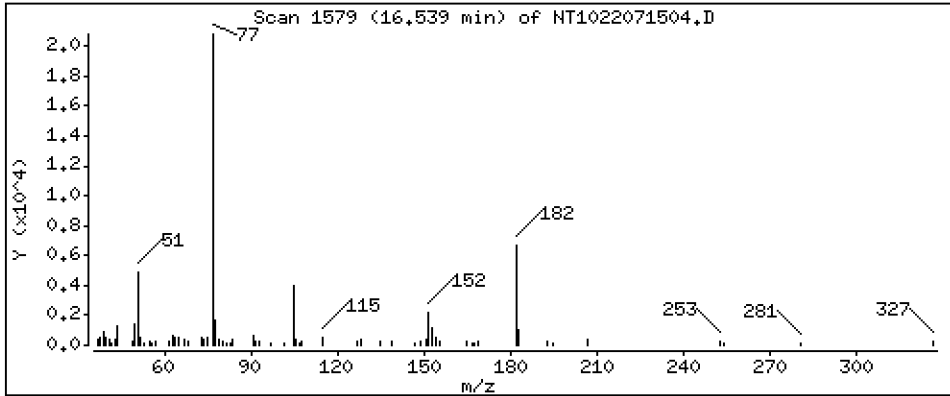
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,1688 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

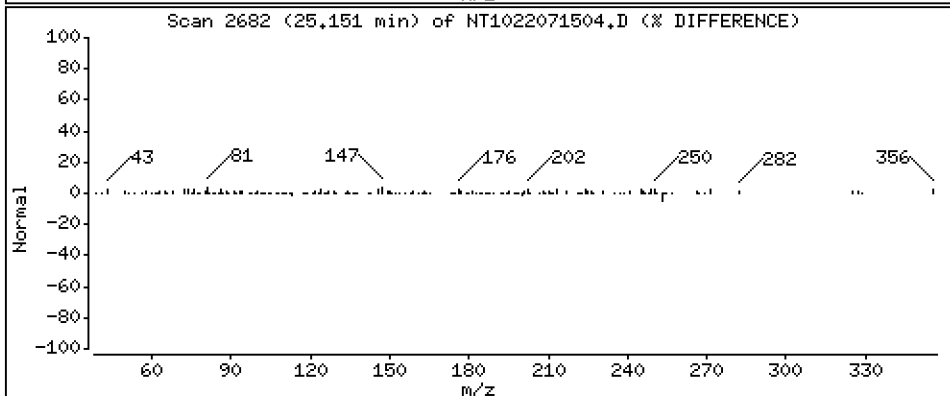
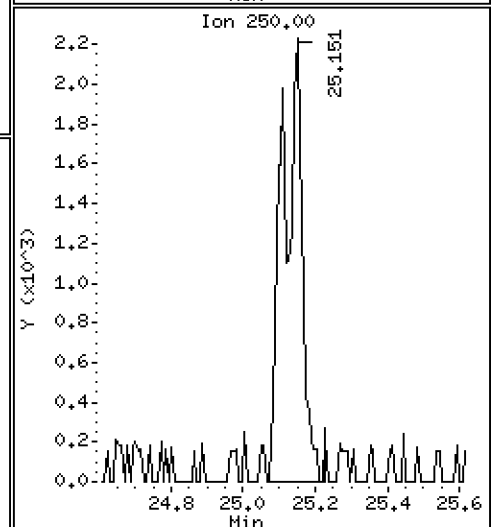
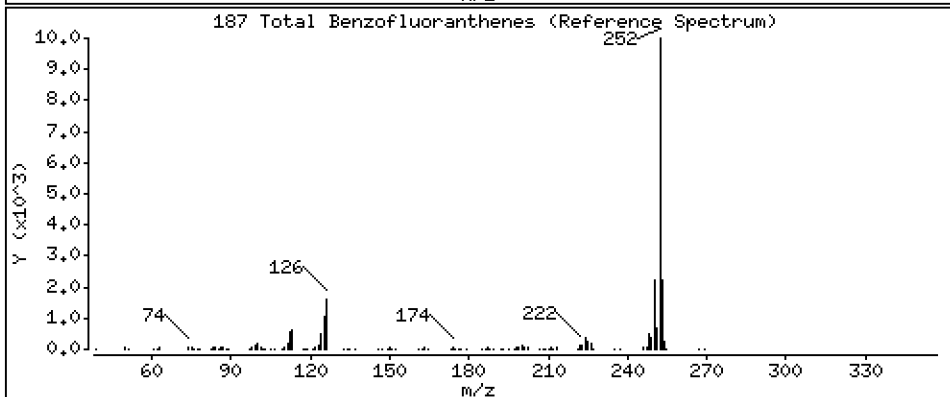
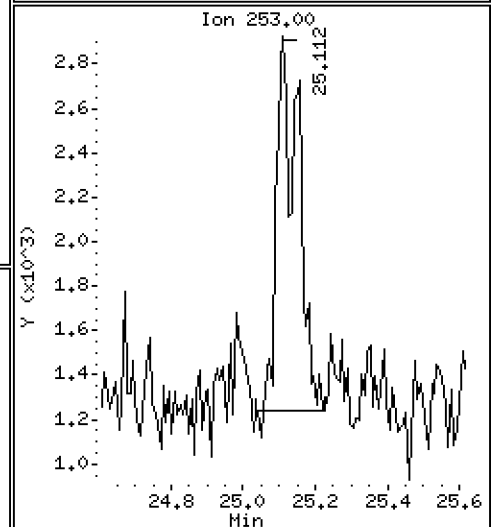
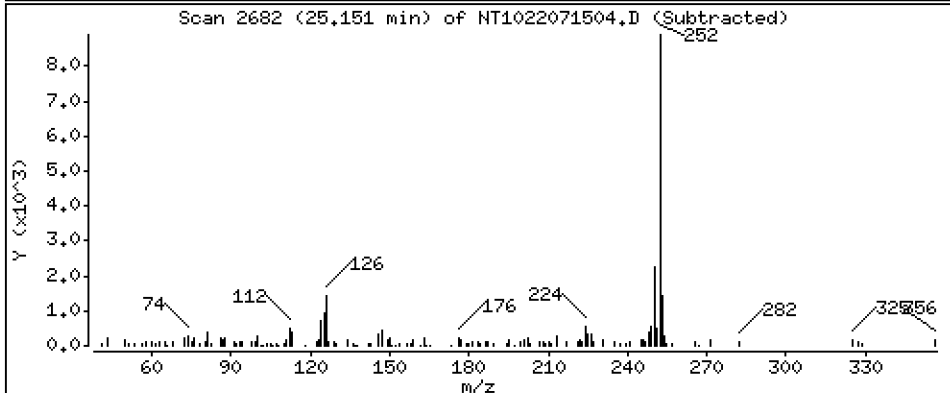
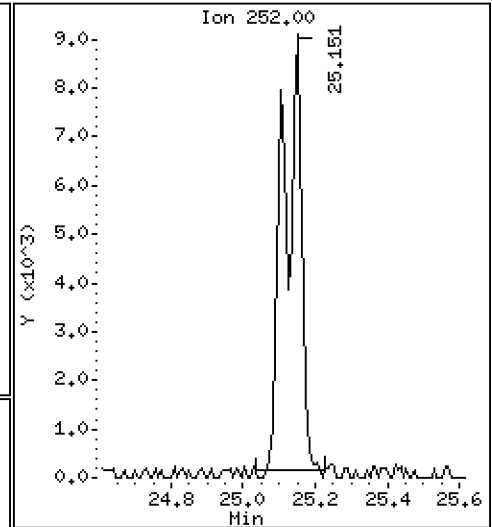
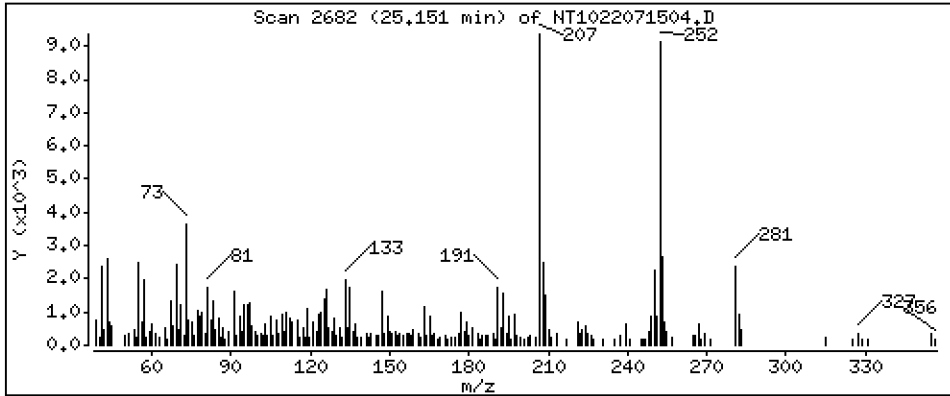
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,3634 ug/mL



Date : 15-JUL-2022 14:07

Client ID:

Instrument: nt10.i

Sample Info: SKG0154-LCV2

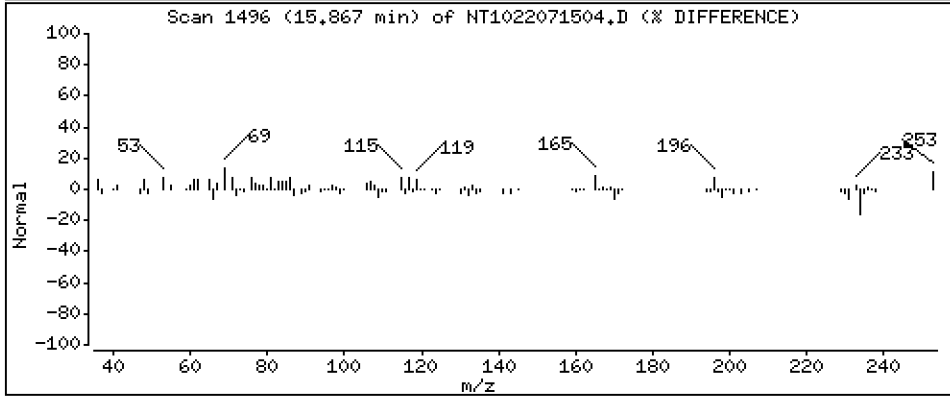
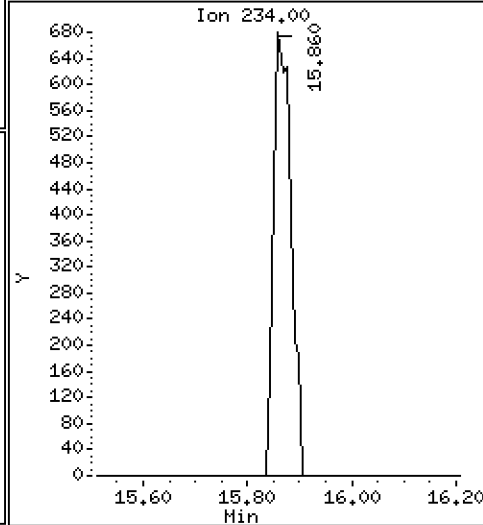
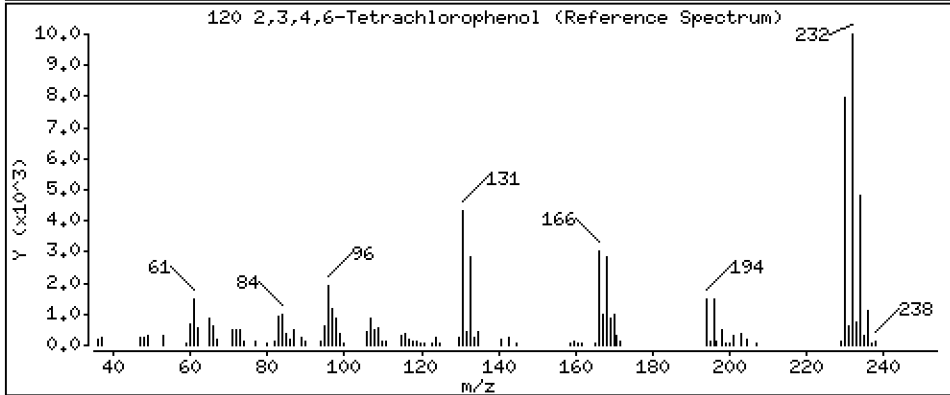
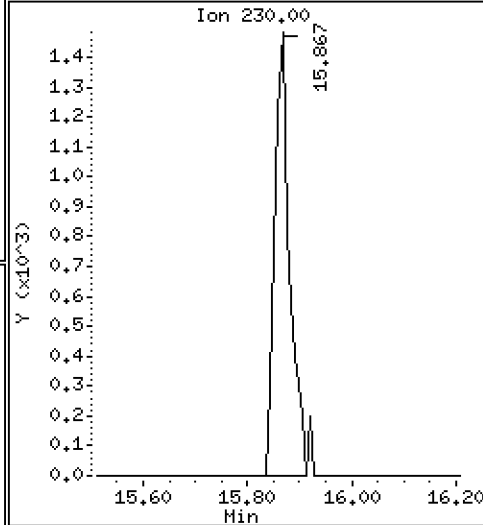
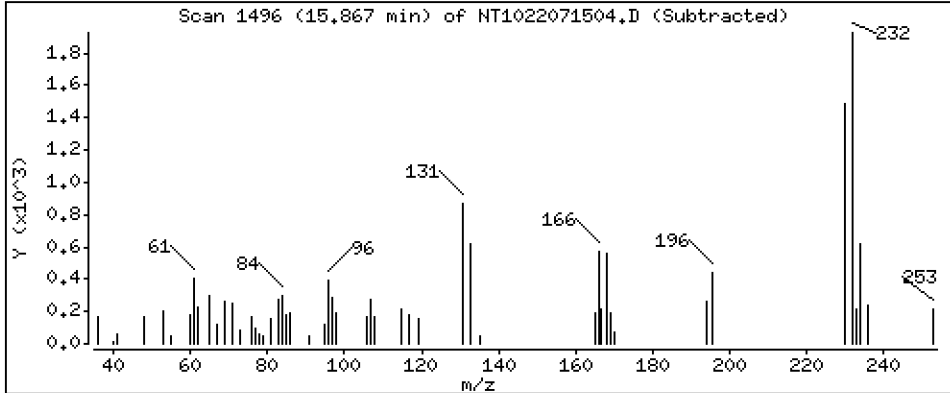
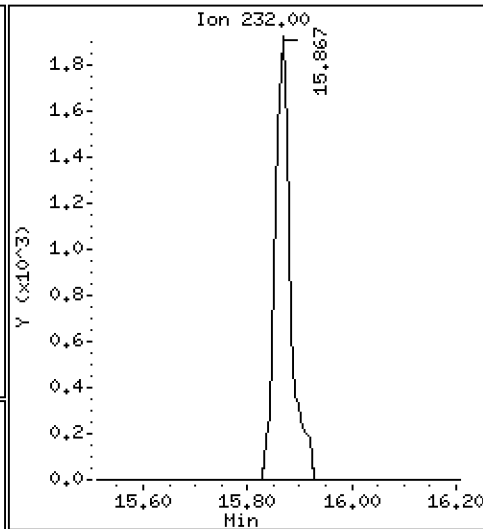
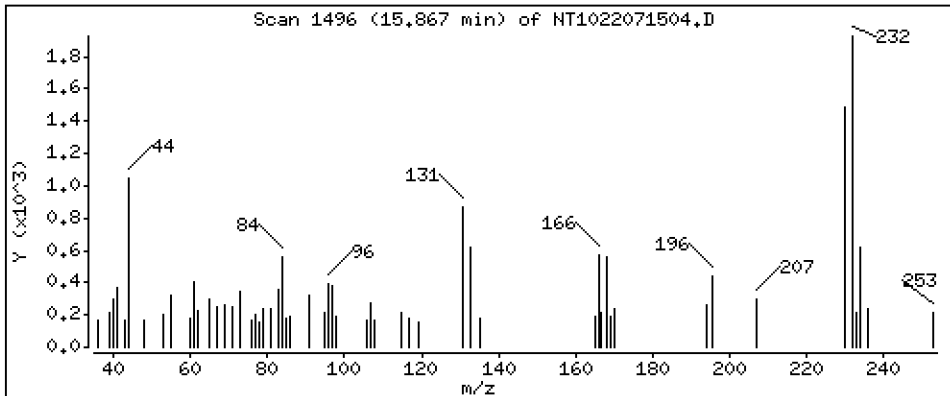
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0.09107 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220715.b\NT1022071504.D
 Lab Smp Id: SKG0154-LCV2
 Inj Date : 15-JUL-2022 14:07
 Operator : VTS
 Smp Info : SKG0154-LCV2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Meth Date : 15-Jul-2022 13:15 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.813	6.806	(0.756)	32115	0.28497	0.2850
\$ 2 Phenol-d5	99		8.405	8.398	(0.933)	38634	0.23104	0.2310
3 Phenol	94		8.428	8.421	(0.936)	25924	0.17791	0.1779
\$ 5 2-Chlorophenol-d4	132		8.660	8.652	(0.961)	33611	0.29270	0.2927
4 Bis(2-Chloroethyl)ether	93		8.552	8.552	(0.949)	23326	0.22243	0.2224
6 2-Chlorophenol	128		8.683	8.683	(0.964)	23761	0.20454	0.2045
7 1,3-Dichlorobenzene	146		8.946	8.939	(0.993)	28134	0.22392	0.2239
* 8 1,4-Dichlorobenzene-d4	152		9.008	9.001	(1.000)	308631	4.00000	
9 1,4-Dichlorobenzene	146		9.039	9.032	(1.003)	19355	0.19543	0.1954
\$ 10 1,2-Dichlorobenzene-d4	152		9.365	9.366	(1.040)	13898	0.19641	0.1964
12 1,2-Dichlorobenzene	146		9.396	9.389	(1.043)	22613	0.21508	0.2151
11 Benzyl alcohol	108		9.288	9.280	(1.031)	10040	0.17297	0.1730
14 2,2'-oxybis(1-Chloropropane)	121		9.583	9.575	(1.064)	6427	0.25848	0.2585 (M)
13 2-Methylphenol	108		9.528	9.529	(1.058)	17162	0.19103	0.1910
17 Hexachloroethane	117		9.979	9.979	(1.108)	8021	0.18168	0.1817
16 N-Nitroso-di-n-propylamine	70		9.831	9.831	(1.091)	11684	0.18700	0.1870
15 4-Methylphenol	108		9.800	9.793	(1.088)	18138	0.18892	0.1889
\$ 18 Nitrobenzene-d5	82		10.103	10.095	(0.879)	18134	0.18103	0.1810
19 Nitrobenzene	77		10.134	10.134	(0.882)	17687	0.17518	0.1752
20 Isophorone	82		10.584	10.584	(0.921)	23442	0.16050	0.1605
21 2-Nitrophenol	139		10.767	10.759	(0.937)	9204	0.14433	0.1443
22 2,4-Dimethylphenol	107		10.835	10.836	(0.943)	33486	0.43224	0.4322
23 Bis(2-Chloroethoxy)methane	93		11.014	11.014	(0.959)	19653	0.22396	0.2240
24 Benzoic acid	105		10.988	11.065	(0.956)	8001	0.20052	0.2005 (M)
25 2,4-Dichlorophenol	162		11.243	11.234	(0.979)	30640	0.38915	0.3892
26 1,2,4-Trichlorobenzene	180		11.411	11.403	(0.993)	20239	0.23948	0.2395
* 27 Naphthalene-d8	136		11.488	11.488	(1.000)	941421	4.00000	
28 Naphthalene	128		11.534	11.535	(1.004)	44488	0.18464	0.1846
29 4-Chloroaniline	127		11.666	11.666	(1.015)	36358	0.34175	0.3418
30 Hexachlorobutadiene	225		11.890	11.890	(1.035)	8710	0.21603	0.2160
31 4-Chloro-3-methylphenol	107		12.664	12.656	(1.102)	24576	0.26497	0.2650
32 2-Methylnaphthalene	142		12.935	12.927	(1.126)	42081	0.17573	0.1757
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.569	13.569	(0.898)	18133	0.33613	0.3361	
35 2,4,5-Trichlorophenol	196		13.662	13.647	(0.904)	18082	0.27900	0.2790	
§ 36 2-Fluorobiphenyl	172		13.716	13.716	(0.908)	44947	0.20925	0.2093	
37 2-Chloronaphthalene	162		13.925	13.925	(0.922)	38601	0.20385	0.2039	
38 2-Nitroaniline	65		14.188	14.188	(0.939)	14228	0.28090	0.2809	
39 Dimethylphthalate	163		14.622	14.622	(0.968)	37845	0.22735	0.2274	
40 Acenaphthylene	152		14.800	14.800	(0.980)	60005	0.21626	0.2163	
41 2,6-Dinitrotoluene	165		14.761	14.761	(0.977)	14153	0.36609	0.3661	
* 42 Acenaphthene-d10	164		15.109	15.109	(1.000)	474664	4.00000		
43 3-Nitroaniline	138		15.047	15.048	(0.996)	17074	0.37516	0.3752	
44 Acenaphthene	153		15.179	15.179	(1.005)	25195	0.18251	0.1825	
45 2,4-Dinitrophenol	184		Compound Not Detected.						
46 Dibenzofuran	168		15.511	15.511	(1.027)	42167	0.19220	0.1922	
47 4-Nitrophenol	109		15.442	15.419	(1.022)	2429	0.16361	0.1636 (M)	
48 2,4-Dinitrotoluene	165		15.581	15.581	(1.031)	14843	0.28726	0.2873	
50 Diethylphthalate	149		16.083	16.084	(1.064)	29360	0.20561	0.2056	
49 Fluorene	166		16.222	16.223	(1.074)	48228	0.18398	0.1840	
51 4-Chlorophenyl-phenylether	204		16.215	16.215	(1.073)	21748	0.18892	0.1889	
52 4-Nitroaniline	138		16.323	16.323	(1.080)	16722	0.36685	0.3668	
53 4,6-Dinitro-2-methylphenol	198		16.431	16.431	(0.905)	6147	0.18588	0.1859	
54 N-Nitrosodiphenylamine	169		16.469	16.469	(0.907)	32150	0.24252	0.2425	
§ 55 2,4,6-Tribromophenol	330		16.762	16.762	(1.109)	3787	0.17702	0.1770	
56 4-Bromophenyl-phenylether	248		17.225	17.217	(0.948)	12386	0.20166	0.2017	
57 Hexachlorobenzene	284		17.542	17.534	(0.966)	13899	0.23501	0.2350	
58 Pentachlorophenol	266		Compound Not Detected.						
* 59 Phenanthrene-d10	188		18.161	18.161	(1.000)	843064	4.00000		
60 Phenanthrene	178		18.207	18.207	(1.003)	40530	0.18299	0.1830	
61 Anthracene	178		18.300	18.300	(1.008)	40947	0.17348	0.1735	
62 Carbazole	167		18.641	18.641	(1.026)	42408	0.19475	0.1948	
63 Di-n-butylphthalate	149		19.445	19.445	(1.071)	52650	0.16145	0.1614	
64 Fluoranthene	202		20.606	20.606	(0.887)	62095	0.18590	0.1859	
65 Pyrene	202		21.031	21.031	(0.905)	64269	0.21993	0.2199	
§ 66 Terphenyl-d14	244		21.325	21.326	(0.918)	44672	0.26974	0.2697	
67 Butylbenzylphthalate	149		22.262	22.262	(0.958)	23435	0.24444	0.2444	
68 Benzo(a)anthracene	228		23.215	23.215	(0.999)	40243	0.20011	0.2001	
* 69 Chrysene-d12	240		23.238	23.246	(1.000)	474579	4.00000		
70 3,3'-Dichlorobenzidine	252		23.168	23.176	(0.997)	42158	0.64333	0.6433	
71 Chrysene	228		23.284	23.292	(1.002)	26334	0.19778	0.1978	
72 bis(2-Ethylhexyl)phthalate	149		23.308	23.308	(0.959)	18943	0.31438	0.3144	
* 134 Di-n-octylphthalate-d4	153		24.298	24.306	(1.000)	545143	4.00000		
73 Di-n-octylphthalate	149		24.314	24.314	(1.001)	25781	0.20807	0.2081	
74 Benzo(b)fluoranthene	252		25.104	25.112	(0.970)	16277	0.17807	0.1781	
75 Benzo(k)fluoranthene	252		25.150	25.158	(0.972)	18191	0.20696	0.2070	
76 Benzo(a)pyrene	252		25.762	25.762	(0.996)	14933	0.19961	0.1996	
* 77 Perylene-d12	264		25.878	25.878	(1.000)	201832	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.544	28.544	(1.103)	12978	0.16248	0.1625	
79 Dibenzo(a,h)anthracene	278		28.552	28.560	(1.103)	10648	0.17413	0.1741	
80 Benzo(g,h,i)perylene	276		29.313	29.329	(1.133)	11601	0.18169	0.1817	
90 N-Nitrosodimethylamine	74		4.627	4.628	(0.514)	20270	0.27490	0.2749	
91 Aniline	93		8.467	8.467	(0.940)	62562	0.42929	0.4293	
93 Benzidine	184		20.846	20.846	(0.897)	42902	0.61277	0.6128	
103 Pyridine	79		4.666	4.651	(0.518)	32542	0.15569	0.1557	
105 1-methylnaphthalene	142		13.151	13.151	(1.145)	43191	0.18359	0.1836	
111 Azobenzene (1,2-DP-Hydrazine)	77		16.539	16.539	(1.095)	32001	0.16881	0.1688	

Compounds	QUANT SIG							CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
=====	=====		=====	=====	=====	=====	=====	=====	
187 Total Benzofluoranthenes	252		25.150	25.112	(0.972)	30969	0.36337	0.3634	
120 2,3,4,6-Tetrachlorophenol	232		15.867	15.859	(1.050)	3819	0.09107	0.09107	

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-JUL-2022
 Lab File ID: NT1022071504.D Calibration Time: 12:41
 Lab Smp Id: SKG0154-LCV2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220715.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	201538	100769	403076	308631	53.14
27 Naphthalene-d8	649654	324827	1299308	941421	44.91
42 Acenaphthene-d10	370460	185230	740920	474664	28.13
59 Phenanthrene-d10	647298	323649	1294596	843064	30.24
69 Chrysene-d12	221116	110558	442232	474579	114.63
134 Di-n-octylphthala	319144	159572	638288	545143	70.81
77 Perylene-d12	105234	52617	210468	201832	91.79

<-

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.00	8.50	9.50	9.01	0.08
27 Naphthalene-d8	11.49	10.99	11.99	11.49	-0.00
42 Acenaphthene-d10	15.11	14.61	15.61	15.11	-0.00
59 Phenanthrene-d10	18.16	17.66	18.66	18.16	-0.00
69 Chrysene-d12	23.25	22.75	23.75	23.24	-0.03
134 Di-n-octylphthala	24.31	23.81	24.81	24.30	-0.03
77 Perylene-d12	25.88	25.38	26.38	25.88	-0.00

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

REVIEW SUMMARY FOR FILE - NT1022071504.D

Lab ID: SKG0154-LCV2
nt10.i, ABN.m, 15-JUL-2022 14:07

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.956	0.963	-0.0066	Benzoic acid

RRT check based on Ccal File: NT1022071502.D

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

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

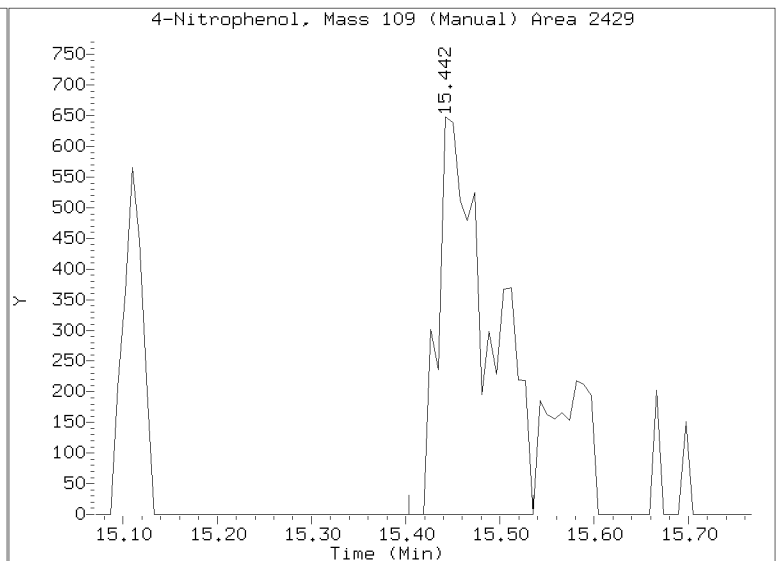
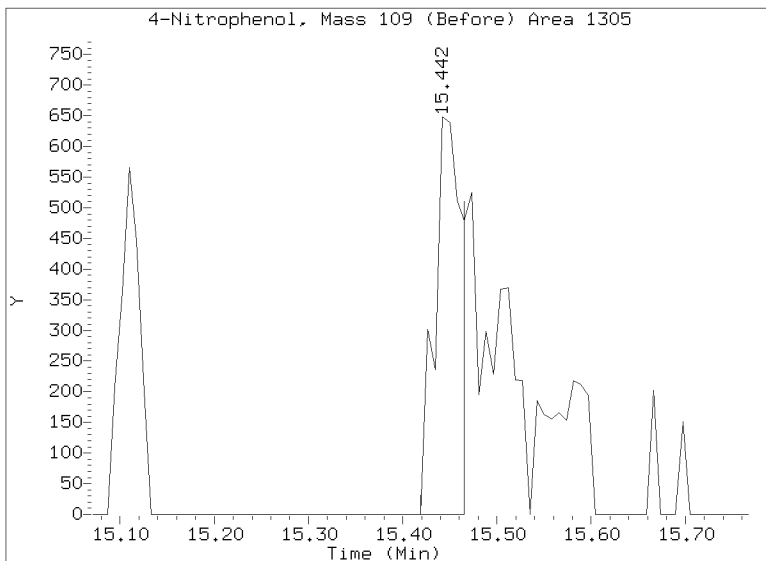
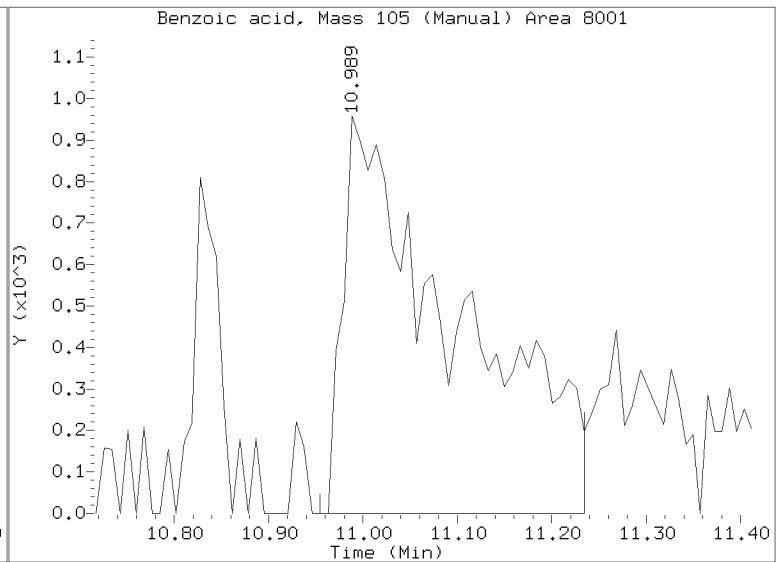
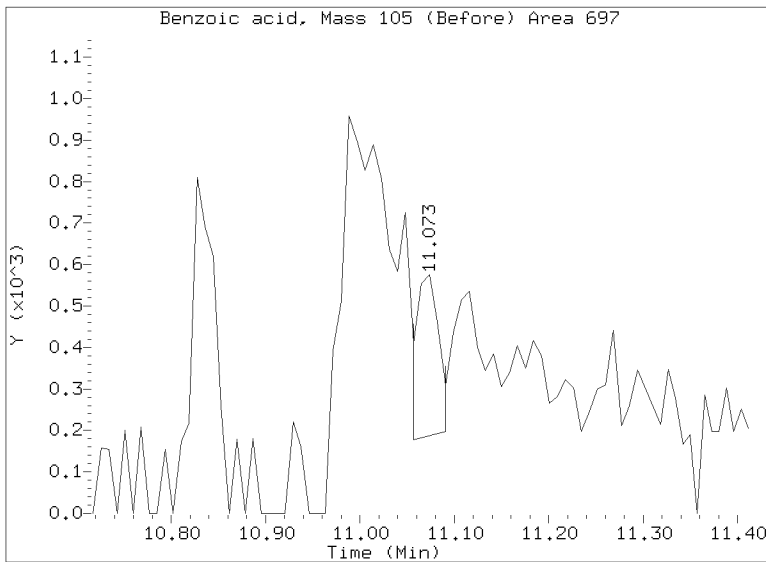
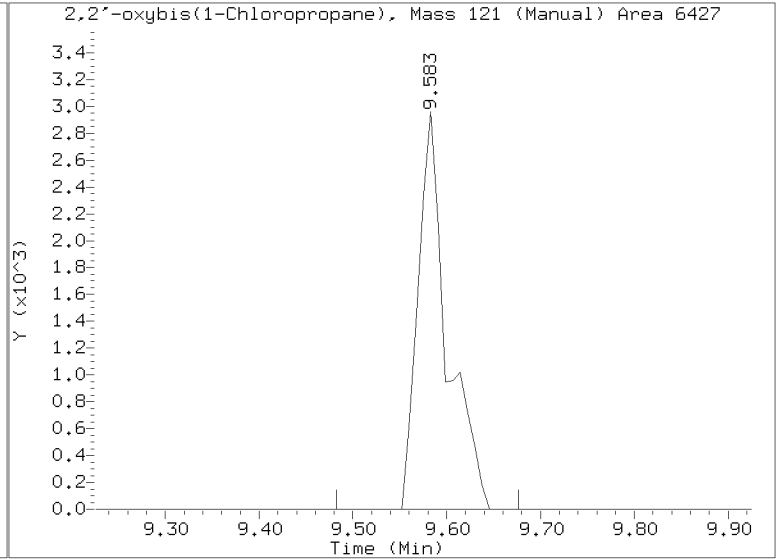
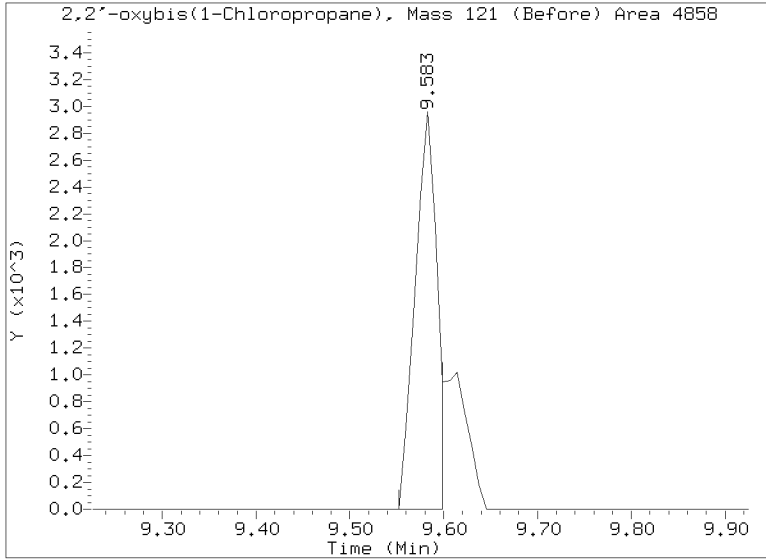
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220715.b/NT1022071504.D

Injection Date: 15-JUL-2022 14:07

Lab ID:SKG0154-LCV2 Client ID:

Report Date: 07/16/2022 09:01





CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071608.D

Calibration Date: 06/23/2022

Sequence: SKG0171

Injection Date: 07/16/22

Lab Sample ID: SKG0171-CCV1

Injection Time: 13:33

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	5.0000	5.5	1.8884920	2.0942060		10.9	+/-50
bis(2-chloroethyl) ether	A	5.0000	5.0	1.3591220	1.3667070		0.6	+/-50
2-Chlorophenol	A	5.0000	5.3	1.5055700	1.5911930		5.7	+/-50
1,3-Dichlorobenzene	A	5.0000	5.8	1.6284120	1.8986930		16.6	+/-50
1,4-Dichlorobenzene	A	5.0000	5.4	1.2836070	1.3806800		7.6	+/-50
1,2-Dichlorobenzene	A	5.0000	5.7	1.3626570	1.5623730		14.7	+/-50
Benzyl Alcohol	A	5.0000	7.9	0.7522971	1.1955270		58.9	+/-50 *
2,2'-Oxybis(1-chloropropane)	A	5.0000	6.6	0.3222545	0.4228933		31.2	+/-50 *
2-Methylphenol	A	5.0000	5.6	1.1643690	1.3059000		12.2	+/-50
Hexachloroethane	A	5.0000	5.7	0.5721944	0.6514591		13.9	+/-50
N-Nitroso-di-n-Propylamine	A	5.0000	5.3	0.8097827	0.8521137		5.2	+/-50
4-Methylphenol	A	5.0000	6.3	1.2443490	1.5641780		25.7	+/-50
Nitrobenzene	A	5.0000	5.1	0.4289874	0.4413704		2.9	+/-50
Isophorone	A	5.0000	5.5	0.6205796	0.6771088		9.1	+/-50
2-Nitrophenol	A	5.0000	5.4	0.2709617	0.2946629		8.7	+/-50
2,4-Dimethylphenol	A	10.000	9.3	0.3291631	0.3074381		-6.6	+/-50
Bis(2-Chloroethoxy)methane	A	5.0000	4.9	0.3728438	0.3619969		-2.9	+/-50
2,4-Dichlorophenol	A	10.000	9.7	0.3345374	0.3231477		-3.4	+/-50
1,2,4-Trichlorobenzene	A	5.0000	6.0	0.3494981	0.4293537		19.6	+/-50
Naphthalene	A	5.0000	5.4	1.0237250	1.1077770		8.2	+/-50
Benzoic acid	A	20.000	17.9	0.1354719	0.1568537		-10.5	+/-50
4-Chloroaniline	A	10.000	11.0	0.4520265	0.4970661		10.0	+/-50
Hexachlorobutadiene	A	5.0000	7.6	0.1713061	0.2595344		51.5	+/-50 *
4-Chloro-3-Methylphenol	A	10.000	10.7	0.3652577	0.4339097		7.1	+/-50
2-Methylnaphthalene	A	5.0000	5.6	1.0174370	1.1367400		11.7	+/-50
Hexachlorocyclopentadiene	A	10.000	2.6	0.1773971	0.0601774		-74.0	+/-50 *
2,4,6-Trichlorophenol	A	10.000	9.1	0.4546098	0.4157318		-8.6	+/-50
2,4,5-Trichlorophenol	A	10.000	8.3	0.4787210	0.4497149		-17.0	+/-50
2-Chloronaphthalene	A	5.0000	4.3	1.5957070	1.3630980		-14.6	+/-50
2-Nitroaniline	A	10.000	8.4	0.4268379	0.3584557		-16.0	+/-50
Acenaphthylene	A	5.0000	3.7	2.3382150	1.7190690		-26.5	+/-50 *
Dimethylphthalate	A	5.0000	3.7	1.4027420	1.0501550		-25.1	+/-50 *
2,6-Dinitrotoluene	A	10.000	8.1	0.3257863	0.2647014		-18.8	+/-50

* Values outside of QC limits



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071608.D

Calibration Date: 06/23/2022

Sequence: SKG0171

Injection Date: 07/16/22

Lab Sample ID: SKG0171-CCV1

Injection Time: 13:33

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Acenaphthene	A	5.0000	5.7	1.1633080	1.3252800		13.9	+/-50
3-Nitroaniline	A	10.000	9.3	0.3835195	0.3561535		-7.1	+/-50
2,4-Dinitrophenol	A	20.000	9.6	0.1087769	0.0707932		-52.0	+/-50 *
Dibenzofuran	A	5.0000	4.4	1.8487680	1.6302620		-11.8	+/-50
4-Nitrophenol	A	10.000	7.2	0.1044372	0.0910561		-28.4	+/-50 *
2,4-Dinitrotoluene	A	10.000	8.8	0.4354293	0.3834958		-11.9	+/-50
Fluorene	A	5.0000	2.8	2.2090760	1.2347190		-44.1	+/-50 *
4-Chlorophenylphenyl ether	A	5.0000	2.6	0.9701069	0.5136169		-47.1	+/-50 *
Diethyl phthalate	A	5.0000	2.6	1.2033170	0.6341583		-47.3	+/-50 *
4-Nitroaniline	A	10.000	9.3	0.3841274	0.3577115		-6.9	+/-50
4,6-Dinitro-2-methylphenol	A	20.000	17.3	0.1197775	0.1348721		-13.7	+/-50
N-Nitrosodiphenylamine	A	5.0000	5.1	0.6289655	0.6413514		2.0	+/-50
4-Bromophenyl phenyl ether	A	5.0000	5.5	0.2914116	0.3210961		10.2	+/-50
Hexachlorobenzene	A	5.0000	3.2	0.2851630	0.1752964		-35.4	+/-50 *
Pentachlorophenol	A	10.000	3.9	0.0462824	0.0238653		-60.8	+/-50 *
Phenanthrene	A	5.0000	5.5	1.0508770	1.1614110		10.5	+/-50
Anthracene	A	5.0000	5.7	1.1198770	1.2689870		13.3	+/-50
Carbazole	A	5.0000	5.9	1.0331450	1.2163900		17.7	+/-50
Di-n-Butylphthalate	A	5.0000	5.9	1.4847320	1.8935820		17.2	+/-50
Fluoranthene	A	5.0000	5.8	2.5859780	3.4306550		16.5	+/-50
Pyrene	A	5.0000	6.2	2.4339860	3.2350960		24.5	+/-50 *
Butylbenzylphthalate	A	5.0000	5.8	0.8080700	0.9453336		17.0	+/-50
Benzo(a)anthracene	A	5.0000	5.2	1.6949770	1.7741700		4.7	+/-50
3,3'-Dichlorobenzidine	A	15.000	15.1	0.5523250	0.5558032		0.6	+/-50
Chrysene	A	5.0000	5.7	1.1695310	1.3487800		13.0	+/-50
bis(2-Ethylhexyl)phthalate	A	5.0000	6.8	0.4421262	0.6030360		36.4	+/-50 *
Di-n-Octylphthalate	A	5.0000	5.5	0.9091601	1.0001580		10.0	+/-50
Benzo(a)fluoranthene, Total	A	10.000	10.9	1.6890580	1.8317960		8.5	+/-50
Benzo(a)pyrene	A	5.0000	5.4	1.4826420	1.6099460		8.6	+/-50
Indeno(1,2,3-cd)pyrene	A	5.0000	5.1	1.5830350	1.6202350		2.3	+/-50
Dibenzo(a,h)anthracene	A	5.0000	5.2	1.2118700	1.2545230		3.5	+/-50
Benzo(g,h,i)perylene	A	5.0000	5.4	1.2654270	1.3776310		8.9	+/-50
1-Methylnaphthalene	A	5.0000	5.5	0.9995882	1.1049490		10.5	+/-50
2-Fluorophenol	A	7.5000	8.15	1.4606150	1.5873380		8.7	+/-50

* Values outside of QC limits



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071608.D

Calibration Date: 06/23/2022

Sequence: SKG0171

Injection Date: 07/16/22

Lab Sample ID: SKG0171-CCV1

Injection Time: 13:33

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol-d5	A	7.5000	8.50	2.1672350	2.4548760		13.3	+/-50
2-Chlorophenol-d4	A	7.5000	8.22	1.4882780	1.6313250		9.6	+/-50
1,2-Dichlorobenzene-d4	A	5.0000	7.21	0.9170783	1.3215090		44.1	+/-50 *
Nitrobenzene-d5	A	5.0000	5.23	0.4256249	0.4453434		4.6	+/-50
2-Fluorobiphenyl	A	5.0000	4.13	1.8101110	1.4936810		-17.5	+/-50
2,4,6-Tribromophenol	A	7.5000	5.31	0.1582114	0.1287245		-29.1	+/-50 *
p-Terphenyl-d14	A	5.0000	5.70	1.3958840	1.5908980		14.0	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220716A,B\NT1022071608.D

Date: 16-JUL-2022 13:33

Client ID:

Sample Info: SKC0171-CCW1

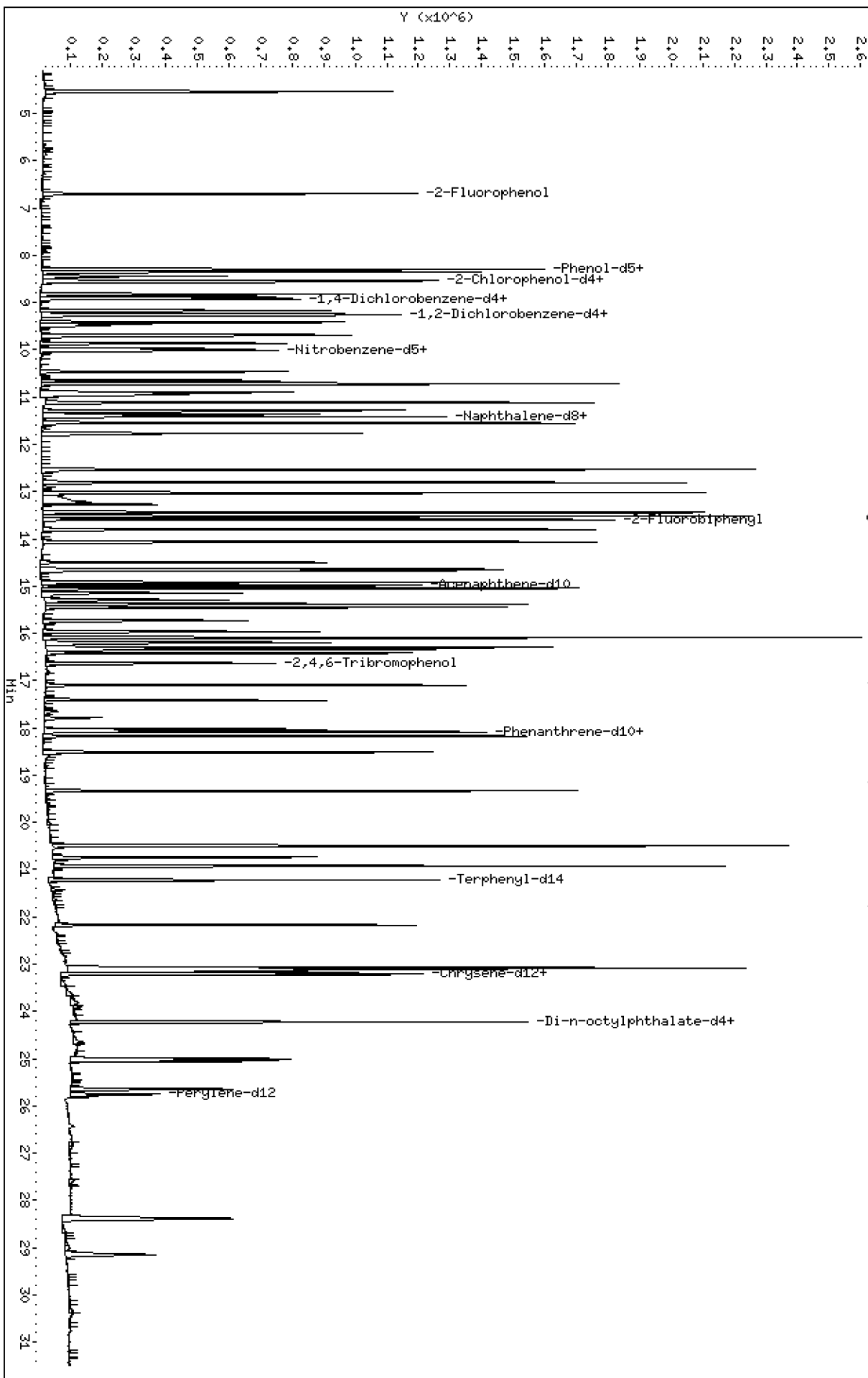
Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Column phase: ZB-5msi

\\target\share\chem3\nt10.1\20220716A,B\NT1022071608.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220716A.b\NT1022071608.D
 Lab Smp Id: SKG0171-CCV1
 Inj Date : 16-JUL-2022 13:33
 Operator : VTS
 Smp Info : SKG0171-CCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220716A.b\ABN.m
 Meth Date : 19-Jul-2022 07:18 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT1022062308.D
 Continuing Calibration Sample
 Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.697	6.697	(0.753)	602862	7.50000	8.151
\$ 2 Phenol-d5	99		8.289	8.289	(0.932)	932348	7.50000	8.495
3 Phenol	94		8.312	8.312	(0.935)	530245	5.00000	5.545
\$ 5 2-Chlorophenol-d4	132		8.536	8.536	(0.960)	619568	7.50000	8.221
4 Bis(2-Chloroethyl)ether	93		8.444	8.444	(0.950)	346045	5.00000	5.028
6 2-Chlorophenol	128		8.567	8.567	(0.963)	402884	5.00000	5.284
7 1,3-Dichlorobenzene	146		8.822	8.822	(0.992)	480742	5.00000	5.830
* 8 1,4-Dichlorobenzene-d4	152		8.892	8.892	(1.000)	202557	4.00000	
9 1,4-Dichlorobenzene	146		8.923	8.923	(1.003)	349583	5.00000	5.378
\$ 10 1,2-Dichlorobenzene-d4	152		9.249	9.249	(1.040)	334601	5.00000	7.205
12 1,2-Dichlorobenzene	146		9.272	9.272	(1.043)	395587	5.00000	5.733
11 Benzyl alcohol	108		9.171	9.171	(1.031)	302703	5.00000	7.946
14 2,2'-oxybis(1-Chloropropane)	121		9.466	9.466	(1.065)	107075	5.00000	6.561 (M)
13 2-Methylphenol	108		9.412	9.412	(1.058)	330649	5.00000	5.608
17 Hexachloroethane	117		9.862	9.862	(1.109)	164947	5.00000	5.693
16 N-Nitroso-di-n-propylamine	70		9.722	9.722	(1.093)	215752	5.00000	5.261
15 4-Methylphenol	108		9.684	9.684	(1.089)	396044	5.00000	6.285
\$ 18 Nitrobenzene-d5	82		9.978	9.978	(0.877)	391876	5.00000	5.232
19 Nitrobenzene	77		10.017	10.017	(0.881)	388380	5.00000	5.144
20 Isophorone	82		10.467	10.467	(0.920)	595816	5.00000	5.455
21 2-Nitrophenol	139		10.646	10.646	(0.936)	259286	5.00000	5.437
22 2,4-Dimethylphenol	107		10.716	10.716	(0.942)	541055	10.0000	9.340
23 Bis(2-Chloroethoxy)methane	93		10.903	10.903	(0.959)	318536	5.00000	4.855
24 Benzoic acid	105		10.954	10.954	(0.963)	552088	20.0000	17.90
25 2,4-Dichlorophenol	162		11.115	11.115	(0.977)	568702	10.0000	9.660
26 1,2,4-Trichlorobenzene	180		11.285	11.285	(0.992)	377806	5.00000	5.978
* 27 Naphthalene-d8	136		11.372	11.372	(1.000)	703953	4.00000	
28 Naphthalene	128		11.411	11.411	(1.003)	974779	5.00000	5.411
29 4-Chloroaniline	127		11.550	11.550	(1.016)	874778	10.0000	11.00
30 Hexachlorobutadiene	225		11.774	11.774	(1.035)	228375	5.00000	7.575
31 4-Chloro-3-methylphenol	107		12.540	12.540	(1.103)	763630	10.0000	10.71
32 2-Methylnaphthalene	142		12.803	12.803	(1.126)	1000264	5.00000	5.586
33 Hexachlorocyclopentadiene	237		13.275	13.275	(0.886)	76745	10.0000	2.602

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.445	13.445	(0.897)	530188	10.0000	9.145
35 2,4,5-Trichlorophenol	196	13.523	13.523	(0.902)	573527	10.0000	8.299
\$ 36 2-Fluorobiphenyl	172	13.592	13.592	(0.907)	952455	5.00000	4.126
37 2-Chloronaphthalene	162	13.801	13.801	(0.921)	869188	5.00000	4.271
38 2-Nitroaniline	65	14.064	14.064	(0.939)	457143	10.0000	8.398
39 Dimethylphthalate	163	14.498	14.498	(0.967)	669638	5.00000	3.743
40 Acenaphthylene	152	14.668	14.668	(0.979)	1096175	5.00000	3.676
41 2,6-Dinitrotoluene	165	14.637	14.637	(0.977)	337577	10.0000	8.125
* 42 Acenaphthene-d10	164	14.985	14.985	(1.000)	510125	4.00000	
43 3-Nitroaniline	138	14.924	14.924	(0.996)	454207	10.0000	9.286
44 Acenaphthene	153	15.047	15.047	(1.004)	845073	5.00000	5.696
45 2,4-Dinitrophenol	184	15.148	15.148	(1.011)	180567	20.0000	9.593
46 Dibenzofuran	168	15.380	15.380	(1.026)	1039547	5.00000	4.409
47 4-Nitrophenol	109	15.295	15.295	(1.021)	116125	10.0000	7.164
48 2,4-Dinitrotoluene	165	15.449	15.449	(1.031)	489077	10.0000	8.807
50 Diethylphthalate	149	15.967	15.967	(1.066)	404375	5.00000	2.635
49 Fluorene	166	16.091	16.091	(1.074)	787326	5.00000	2.795
51 4-Chlorophenyl-phenylether	204	16.091	16.091	(1.074)	327511	5.00000	2.647
52 4-Nitroaniline	138	16.199	16.199	(1.081)	456194	10.0000	9.312
53 4,6-Dinitro-2-methylphenol	198	16.299	16.299	(0.904)	435699	20.0000	17.27
54 N-Nitrosodiphenylamine	169	16.346	16.346	(0.907)	517965	5.00000	5.098
\$ 55 2,4,6-Tribromophenol	330	16.639	16.639	(1.110)	123123	7.50000	5.314
56 4-Bromophenyl-phenylether	248	17.094	17.094	(0.948)	259322	5.00000	5.509
57 Hexachlorobenzene	284	17.418	17.418	(0.966)	141572	5.00000	3.231
58 Pentachlorophenol	266	17.789	17.789	(0.987)	38548	10.0000	3.918
* 59 Phenanthrene-d10	188	18.029	18.029	(1.000)	646092	4.00000	
60 Phenanthrene	178	18.083	18.083	(1.003)	937973	5.00000	5.526
61 Anthracene	178	18.176	18.176	(1.008)	1024853	5.00000	5.666
62 Carbazole	167	18.517	18.517	(1.027)	982375	5.00000	5.887
63 Di-n-butylphthalate	149	19.337	19.337	(1.073)	1529285	5.00000	5.862
64 Fluoranthene	202	20.497	20.497	(0.886)	1497927	5.00000	5.826
65 Pyrene	202	20.923	20.923	(0.904)	1412540	5.00000	6.224
\$ 66 Terphenyl-d14	244	21.225	21.225	(0.917)	694634	5.00000	5.699
67 Butylbenzylphthalate	149	22.169	22.169	(0.958)	412761	5.00000	5.849
68 Benzo(a)anthracene	228	23.114	23.114	(0.999)	774656	5.00000	5.234
* 69 Chrysene-d12	240	23.145	23.145	(1.000)	349304	4.00000	
70 3,3'-Dichlorobenzidine	252	23.083	23.083	(0.997)	728041	15.0000	15.09
71 Chrysene	228	23.191	23.191	(1.002)	588918	5.00000	5.651
72 bis(2-Ethylhexyl)phthalate	149	23.222	23.222	(0.959)	451631	5.00000	6.820
* 134 Di-n-octylphthalate-d4	153	24.221	24.221	(1.000)	599143	4.00000	
73 Di-n-octylphthalate	149	24.229	24.229	(1.000)	749047	5.00000	5.500
74 Benzo(b)fluoranthene	252	25.003	25.003	(0.971)	463180	5.00000	5.550
75 Benzo(k)fluoranthene	252	25.049	25.049	(0.973)	422141	5.00000	5.260
76 Benzo(a)pyrene	252	25.646	25.646	(0.996)	370839	5.00000	5.429
* 77 Perylene-d12	264	25.754	25.754	(1.000)	184274	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.381	28.381	(1.102)	373209	5.00000	5.117
79 Dibenzo(a,h)anthracene	278	28.388	28.388	(1.102)	288970	5.00000	5.176
80 Benzo(g,h,i)perylene	276	29.150	29.150	(1.132)	317327	5.00000	5.443
90 N-Nitrosodimethylamine	74	4.527	4.527	(0.509)	433810	10.0000	8.964
91 Aniline	93	8.351	8.351	(0.939)	933548	10.0000	9.760
93 Benzidine	184	20.737	20.737	(0.896)	524705	10.0000	10.18
103 Pyridine	79	4.542	4.542	(0.511)	573038	5.00000	4.177
105 1-methylnaphthalene	142	13.027	13.027	(1.146)	972290	5.00000	5.527
111 Azobenzene (1,2-DP-Hydrazine)	77	16.415	16.415	(1.095)	775588	5.00000	3.807

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252		25.003	25.003	(0.971)	843881	10.0000	10.85
120 2,3,4,6-Tetrachlorophenol	232		15.735	15.735	(1.050)	144313	5.00000	3.230

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 16-JUL-2022
 Lab File ID: NT1022071608.D Calibration Time: 13:33
 Lab Smp Id: SKG0171-CCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220716A.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	202557	101279	405114	202557	0.00
27 Naphthalene-d8	703953	351977	1407906	703953	0.00
42 Acenaphthene-d10	510125	255063	1020250	510125	0.00
59 Phenanthrene-d10	646092	323046	1292184	646092	0.00
69 Chrysene-d12	349304	174652	698608	349304	0.00
134 Di-n-octylphthala	599143	299572	1198286	599143	0.00
77 Perylene-d12	184274	92137	368548	184274	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.89	8.39	9.39	8.89	0.00
27 Naphthalene-d8	11.37	10.87	11.87	11.37	0.00
42 Acenaphthene-d10	14.99	14.49	15.49	14.99	0.00
59 Phenanthrene-d10	18.03	17.53	18.53	18.03	0.00
69 Chrysene-d12	23.15	22.65	23.65	23.15	0.00
134 Di-n-octylphthala	24.22	23.72	24.72	24.22	0.00
77 Perylene-d12	25.75	25.25	26.25	25.75	0.00

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

REVIEW SUMMARY FOR FILE - NT1022071608.D

Lab ID: SKG0171-CCV1
nt10.i, ABN.m, 16-JUL-2022 13:33

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

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

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

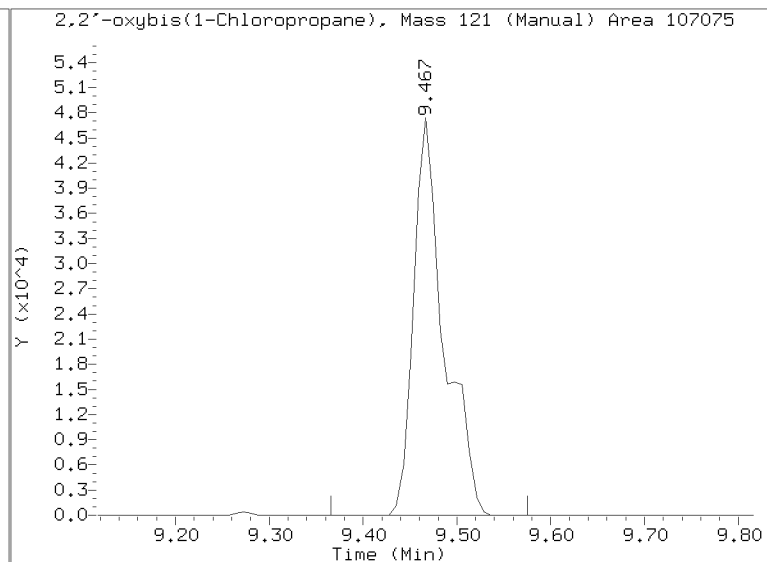
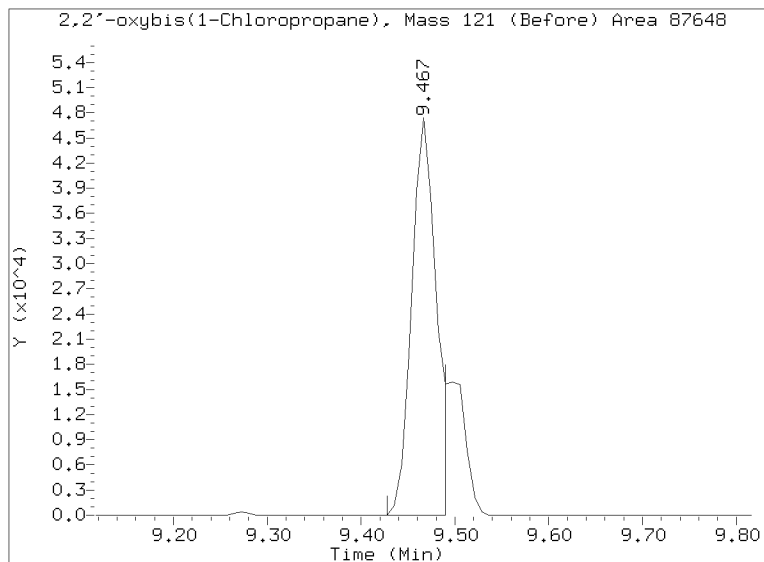
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220716A.b/NT1022071608.D

Injection Date: 16-JUL-2022 13:33

Lab ID:SKG0171-CCV1 Client ID:

Report Date: 07/19/2022 10:57



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20220716A.b

Instrument: nt10.i Date: 16-JUL-2022 Method: ABN.m

INITIAL CAL: 23-JUN-2022

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: NT1022071608.D 16-JUL-2022 13:33

Compound	%D

Benzyl alcohol	58.92
2,2'-oxybis(1-Chloropropane)	31.23
4-Methylphenol	25.70
Hexachlorobutadiene	51.50
Hexachlorocyclopentadiene	-74.0
Acenaphthylene	-26.48
Dimethylphthalate	-25.14
2,4-Dinitrophenol	-52.0
4-Nitrophenol	-28.4
Fluorene	-44.11
4-Chlorophenyl-phenylether	-47.06
Diethylphthalate	-47.30
Hexachlorobenzene	-35.4
Pentachlorophenol	-60.8
Pyrene	24.5
bis(2-Ethylhexyl)phthalate	36.39
Azobenzene (1,2-DP-Hydrazine)	-23.86
2,3,4,6-Tetrachlorophenol	-35.4
1,2-Dichlorobenzene-d4	44.10
2,4,6-Tribromophenol	-29.1



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071614.D

Calibration Date: 06/23/2022

Sequence: SKG0171

Injection Date: 07/16/22

Lab Sample ID: SKG0171-CCV2

Injection Time: 19:00

Sequence Name: Calibration Check

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	5.0000	5.5	1.8884920	2.0715630		9.7	+/-50
bis(2-chloroethyl) ether	A	5.0000	5.0	1.3591220	1.3643680		0.4	+/-50
2-Chlorophenol	A	5.0000	5.3	1.5055700	1.5894330		5.6	+/-50
1,3-Dichlorobenzene	A	5.0000	6.0	1.6284120	1.9689110		20.9	+/-50
1,4-Dichlorobenzene	A	5.0000	5.4	1.2836070	1.3883360		8.2	+/-50
1,2-Dichlorobenzene	A	5.0000	5.7	1.3626570	1.5401580		13.0	+/-50
Benzyl Alcohol	A	5.0000	7.9	0.7522971	1.1903670		58.2	+/-50 *
2,2'-Oxybis(1-chloropropane)	A	5.0000	6.6	0.3222545	0.4267067		32.4	+/-50
2-Methylphenol	A	5.0000	5.6	1.1643690	1.3036100		12.0	+/-50
Hexachloroethane	A	5.0000	5.7	0.5721944	0.6504531		13.7	+/-50
N-Nitroso-di-n-Propylamine	A	5.0000	6.0	0.8097827	0.9725101		20.1	+/-50
4-Methylphenol	A	5.0000	6.2	1.2443490	1.5484410		24.4	+/-50
Nitrobenzene	A	5.0000	5.2	0.4289874	0.4430870		3.3	+/-50
Isophorone	A	5.0000	5.4	0.6205796	0.6727406		8.4	+/-50
2-Nitrophenol	A	5.0000	5.4	0.2709617	0.2910877		7.4	+/-50
2,4-Dimethylphenol	A	10.000	10.3	0.3291631	0.3406441		3.5	+/-50
Bis(2-Chloroethoxy)methane	A	5.0000	4.9	0.3728438	0.3679632		-1.3	+/-50
2,4-Dichlorophenol	A	10.000	9.6	0.3345374	0.3218077		-3.8	+/-50
1,2,4-Trichlorobenzene	A	5.0000	5.0	0.3494981	0.3605821		0.4	+/-50
Naphthalene	A	5.0000	5.3	1.0237250	1.0913000		6.6	+/-50
Benzoic acid	A	20.000	16.5	0.1354719	0.1437984		-17.7	+/-50
4-Chloroaniline	A	10.000	10.9	0.4520265	0.4923666		8.9	+/-50
Hexachlorobutadiene	A	5.0000	7.3	0.1713061	0.2492468		45.5	+/-50
4-Chloro-3-Methylphenol	A	10.000	10.7	0.3652577	0.4317014		6.5	+/-50
2-Methylnaphthalene	A	5.0000	5.5	1.0174370	1.1199820		10.1	+/-50
Hexachlorocyclopentadiene	A	10.000	3.1	0.1773971	0.0721294		-68.9	+/-50 *
2,4,6-Trichlorophenol	A	10.000	11.3	0.4546098	0.5118418		12.6	+/-50
2,4,5-Trichlorophenol	A	10.000	10.0	0.4787210	0.5411604		0.03	+/-50
2-Chloronaphthalene	A	5.0000	5.4	1.5957070	1.7130140		7.4	+/-50
2-Nitroaniline	A	10.000	10.7	0.4268379	0.4572642		7.1	+/-50
Acenaphthylene	A	5.0000	4.5	2.3382150	2.1264990		-9.1	+/-50
Dimethylphthalate	A	5.0000	4.8	1.4027420	1.3431510		-4.2	+/-50
2,6-Dinitrotoluene	A	10.000	10.1	0.3257863	0.3283673		0.8	+/-50
Acenaphthene	A	5.0000	7.0	1.1633080	1.6285920		40.0	+/-50

* Values outside of QC limits



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071614.D

Calibration Date: 06/23/2022

Sequence: SKG0171

Injection Date: 07/16/22

Lab Sample ID: SKG0171-CCV2

Injection Time: 19:00

Sequence Name: Calibration Check

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	10.000	11.3	0.3835195	0.4319627		12.6	+/-50
2,4-Dinitrophenol	A	20.000	11.0	0.1087769	0.0813445		-45.1	+/-50
Dibenzofuran	A	5.0000	5.5	1.8487680	2.0412090		10.4	+/-50
4-Nitrophenol	A	10.000	8.6	0.1044372	0.1098165		-13.9	+/-50
2,4-Dinitrotoluene	A	10.000	11.2	0.4354293	0.4861113		11.6	+/-50
Fluorene	A	5.0000	3.5	2.2090760	1.5323510		-30.6	+/-50
4-Chlorophenylphenyl ether	A	5.0000	3.2	0.9701069	0.6240844		-35.7	+/-50
Diethyl phthalate	A	5.0000	5.0	1.2033170	1.2030360		-0.02	+/-50
4-Nitroaniline	A	10.000	11.2	0.3841274	0.4310511		12.2	+/-50
4,6-Dinitro-2-methylphenol	A	20.000	16.7	0.1197775	0.1308031		-16.3	+/-50
N-Nitrosodiphenylamine	A	5.0000	5.1	0.6289655	0.6461784		2.7	+/-50
4-Bromophenyl phenyl ether	A	5.0000	5.5	0.2914116	0.3232905		10.9	+/-50
Hexachlorobenzene	A	5.0000	5.0	0.2851630	0.2655460		-0.3	+/-50
Pentachlorophenol	A	10.000	3.6	0.0462824	0.0221078		-63.7	+/-50 *
Phenanthrene	A	5.0000	5.5	1.0508770	1.1660580		11.0	+/-50
Anthracene	A	5.0000	5.7	1.1198770	1.2863300		14.9	+/-50
Carbazole	A	5.0000	5.7	1.0331450	1.1678370		13.0	+/-50
Di-n-Butylphthalate	A	5.0000	5.8	1.4847320	1.8791850		16.4	+/-50
Fluoranthene	A	5.0000	7.1	2.5859780	4.2267540		42.0	+/-50
Pyrene	A	5.0000	7.4	2.4339860	3.9069000		48.6	+/-50
Butylbenzylphthalate	A	5.0000	6.9	0.8080700	1.1176830		38.3	+/-50
Benzo(a)anthracene	A	5.0000	5.2	1.6949770	1.7703180		4.4	+/-50
3,3'-Dichlorobenzidine	A	15.000	13.7	0.5523250	0.5038942		-8.8	+/-50
Chrysene	A	5.0000	5.6	1.1695310	1.3431560		12.6	+/-50
bis(2-Ethylhexyl)phthalate	A	5.0000	7.1	0.4421262	0.6240671		41.2	+/-50
Di-n-Octylphthalate	A	5.0000	5.6	0.9091601	1.0246870		12.7	+/-50
Benzofluoranthenes, Total	A	10.000	11.8	1.6890580	1.9965000		18.2	+/-50
Benzo(a)pyrene	A	5.0000	6.1	1.4826420	1.8002950		21.4	+/-50
Indeno(1,2,3-cd)pyrene	A	5.0000	6.4	1.5830350	2.0308470		28.3	+/-50
Dibenzo(a,h)anthracene	A	5.0000	6.6	1.2118700	1.6007110		32.1	+/-50
Benzo(g,h,i)perylene	A	5.0000	7.4	1.2654270	1.8674300		47.6	+/-50
1-Methylnaphthalene	A	5.0000	5.5	0.9995882	1.0944310		9.5	+/-50
2-Fluorophenol	A	7.5000	8.02	1.4606150	1.5615510		6.9	+/-50
Phenol-d5	A	7.5000	8.57	2.1672350	2.4772940		14.3	+/-50

* Values outside of QC limits



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071614.D

Calibration Date: 06/23/2022

Sequence: SKG0171

Injection Date: 07/16/22

Lab Sample ID: SKG0171-CCV2

Injection Time: 19:00

Sequence Name: Calibration Check

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	7.5000	8.14	1.4882780	1.6159160		8.6	+/-50
1,2-Dichlorobenzene-d4	A	5.0000	7.05	0.9170783	1.2934030		41.0	+/-50
Nitrobenzene-d5	A	5.0000	5.22	0.4256249	0.4441851		4.4	+/-50
2-Fluorobiphenyl	A	5.0000	5.25	1.8101110	1.9005380		5.0	+/-50
2,4,6-Tribromophenol	A	7.5000	6.42	0.1582114	0.1557843		-14.4	+/-50
p-Terphenyl-d14	A	5.0000	6.81	1.3958840	1.9005260		36.2	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220716A.B\NT1022071614.D

Date: 16-JUL-2022 19:00

Client ID:

Sample Info: SKC0171-CCW2

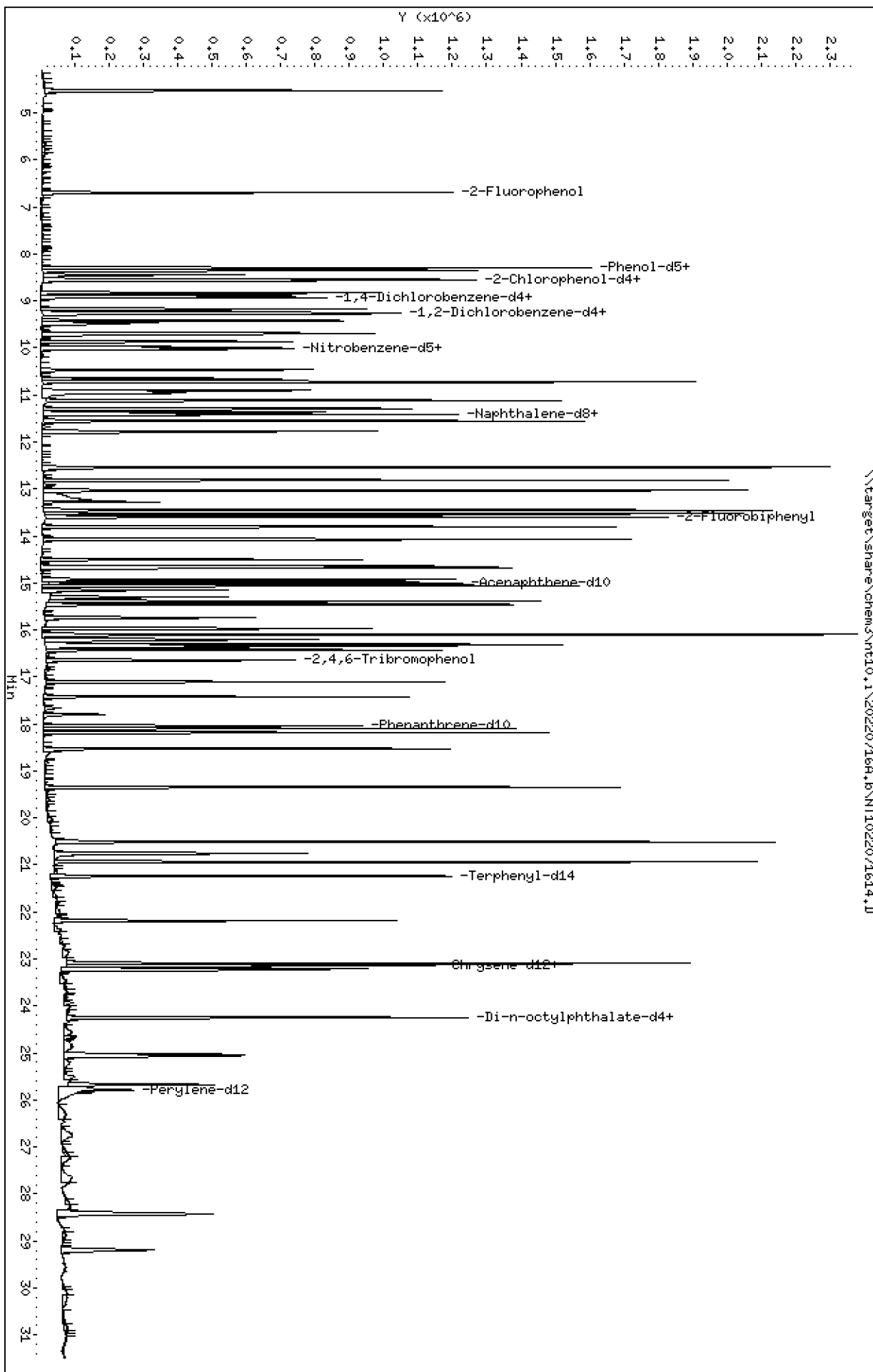
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

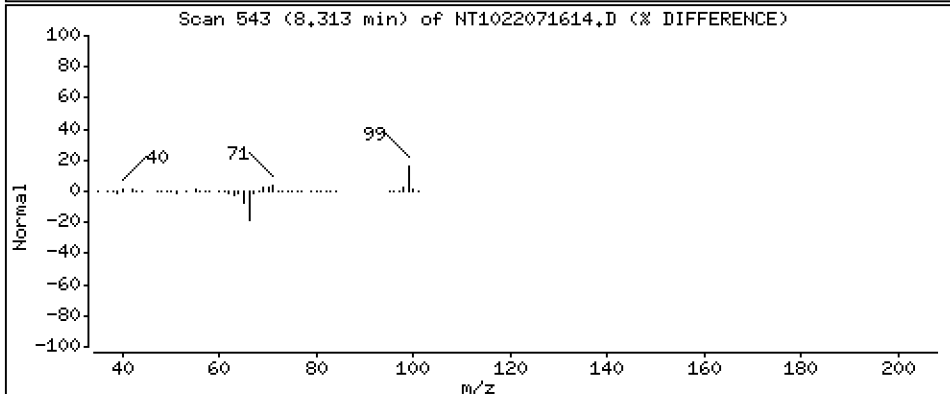
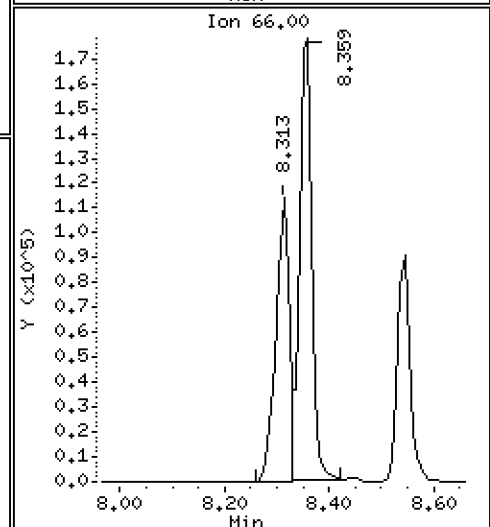
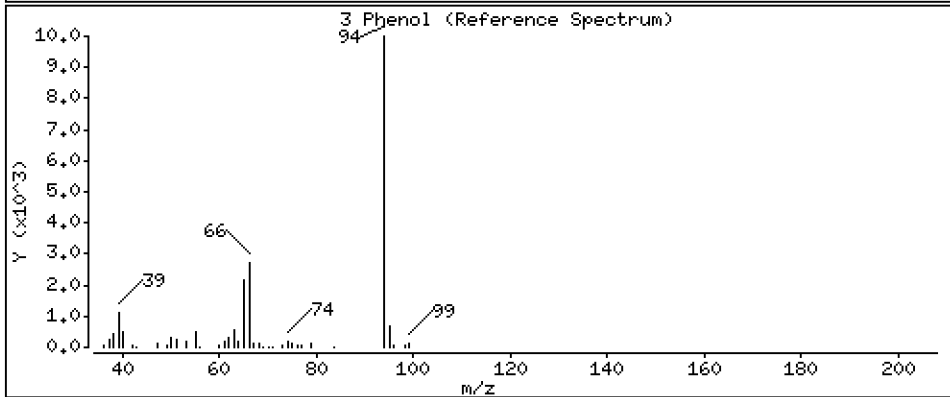
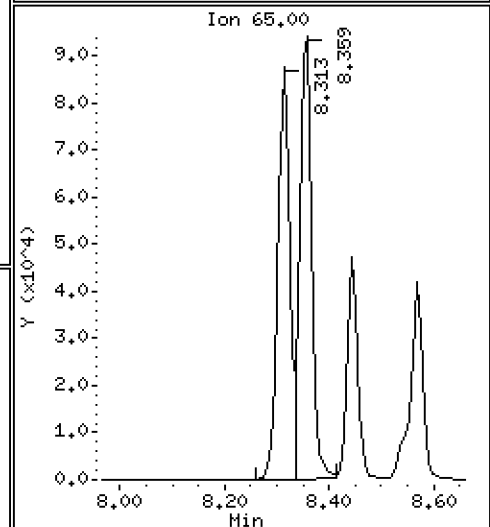
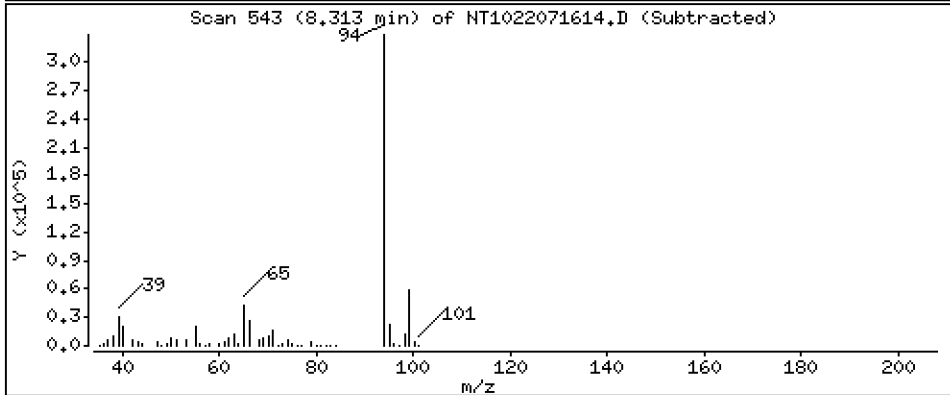
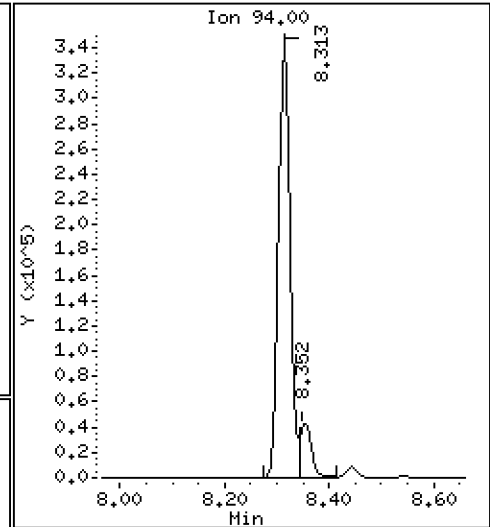
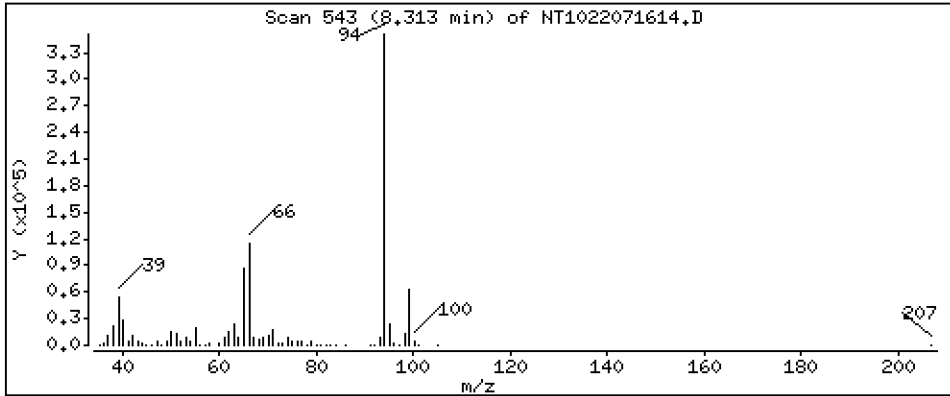
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 5,485 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

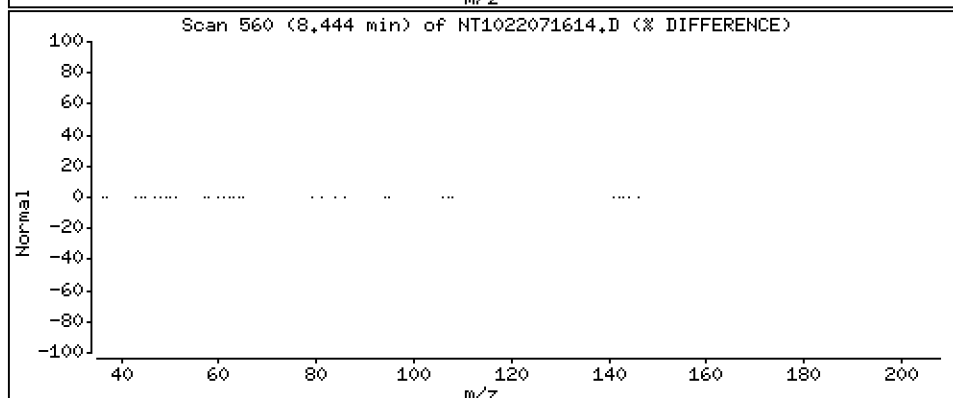
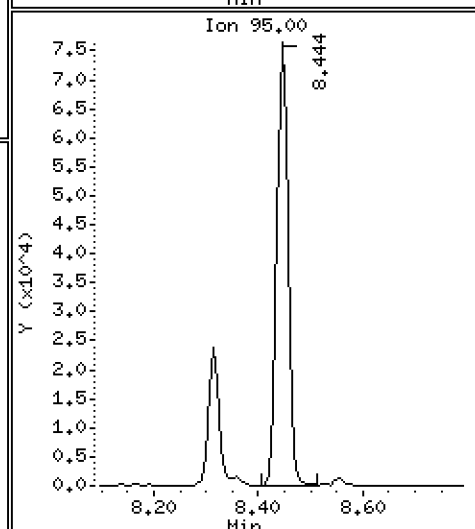
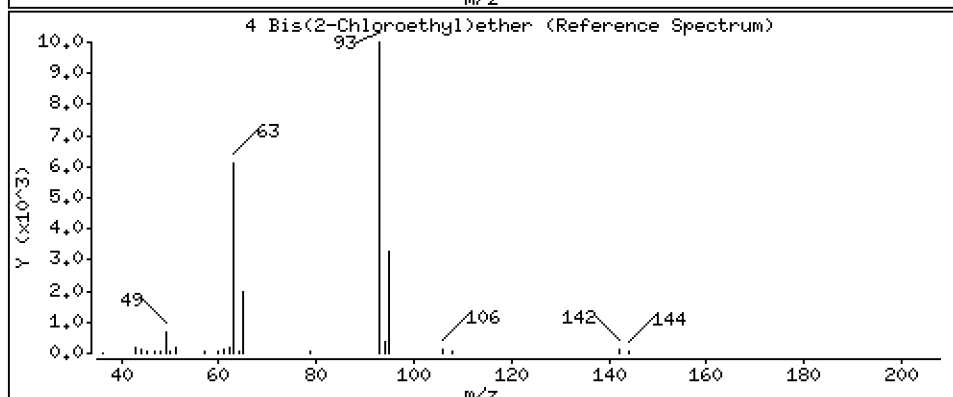
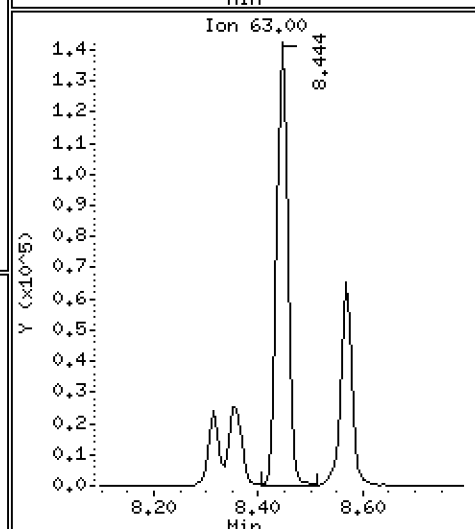
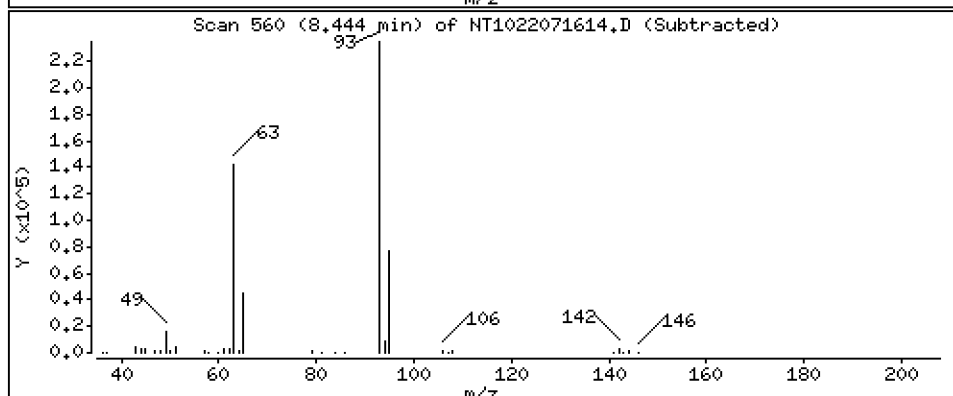
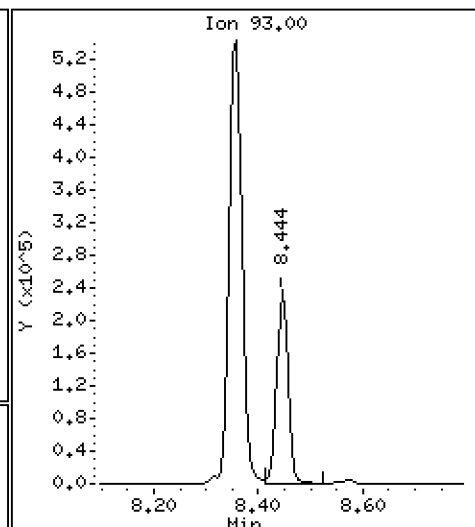
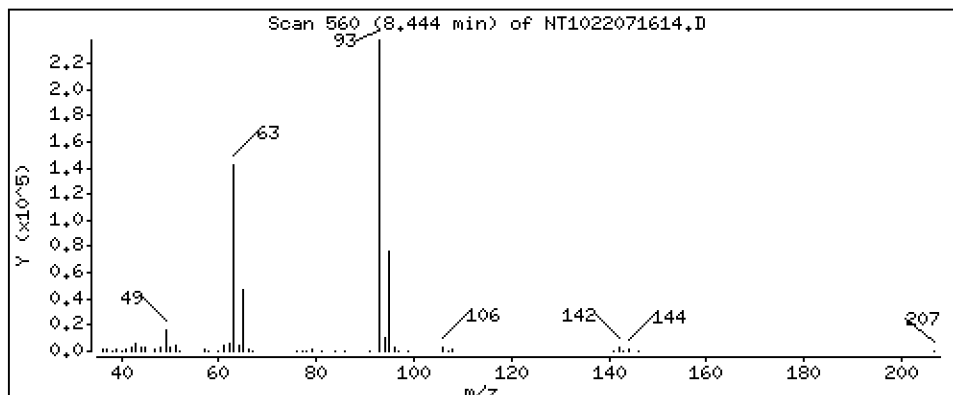
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,019 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

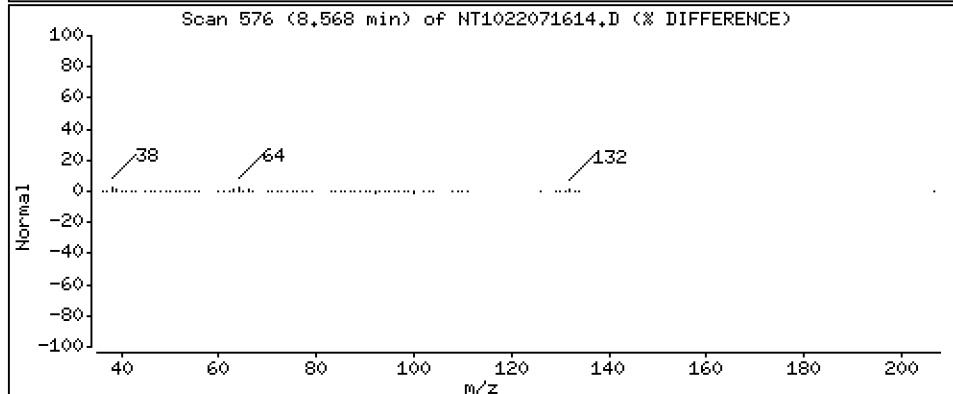
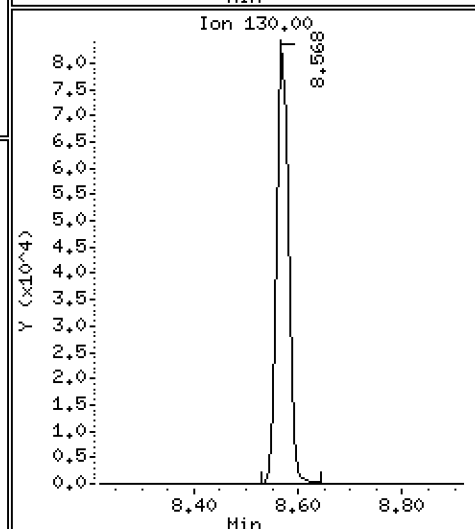
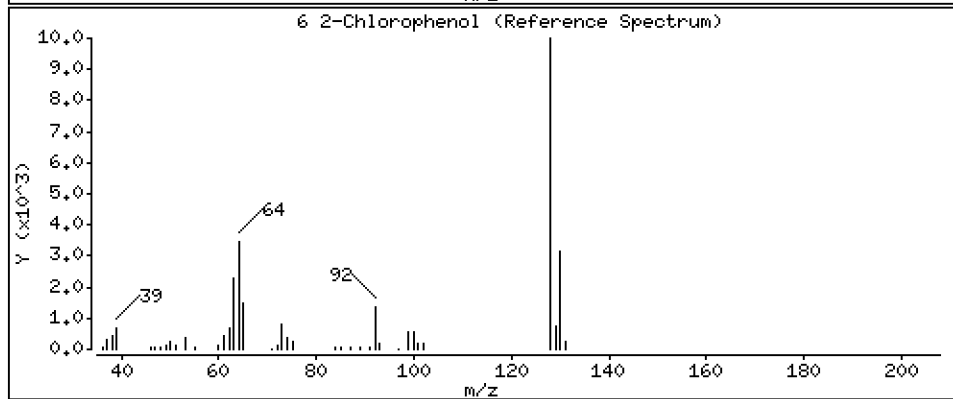
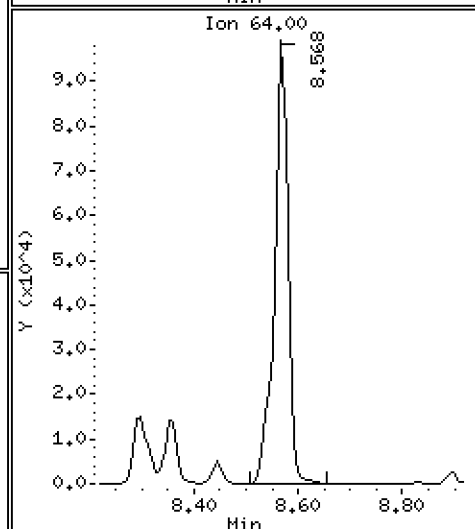
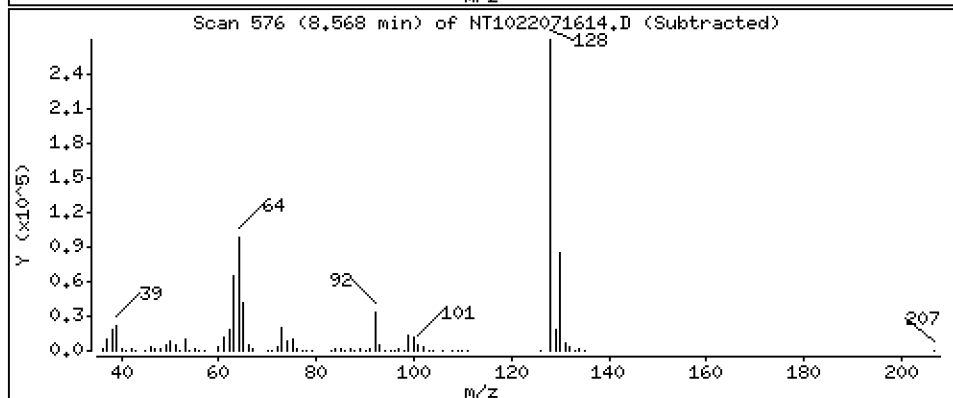
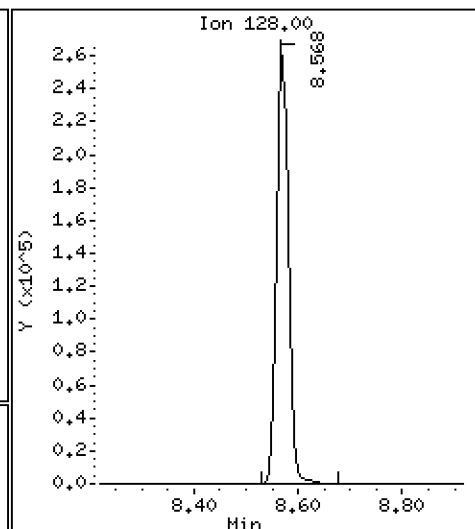
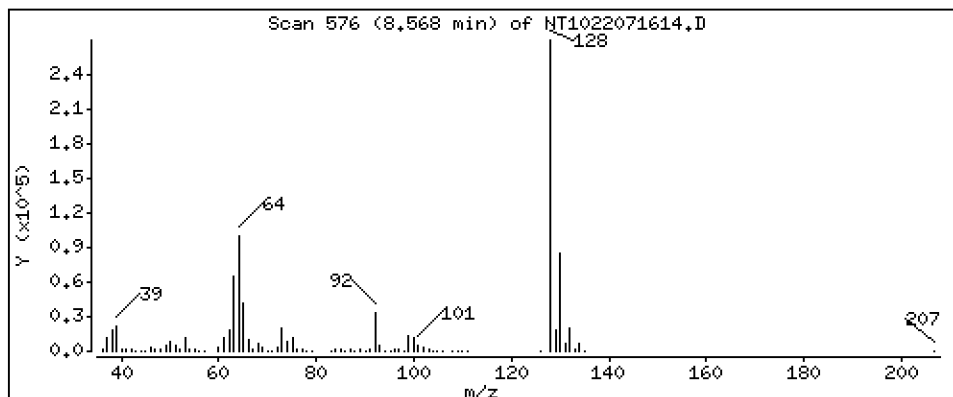
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 5,279 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

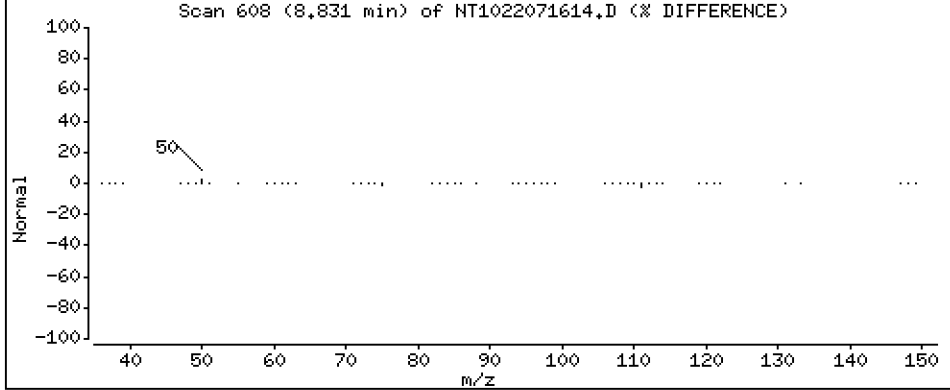
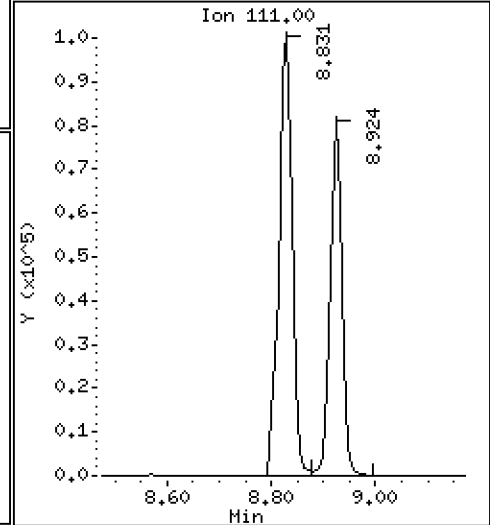
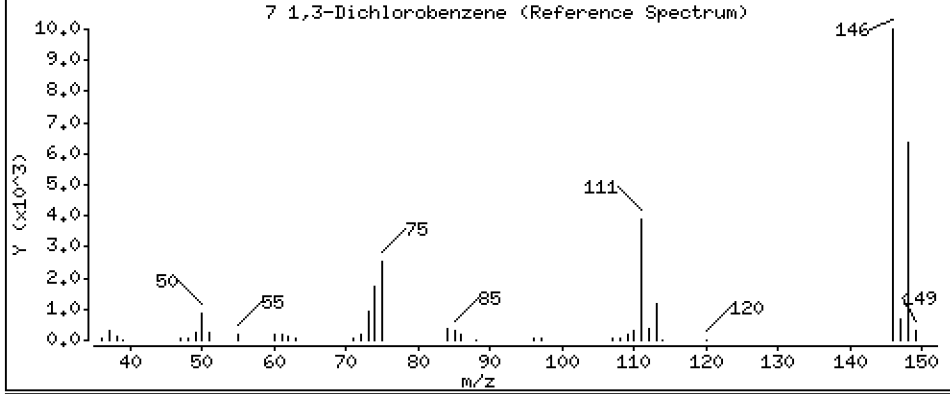
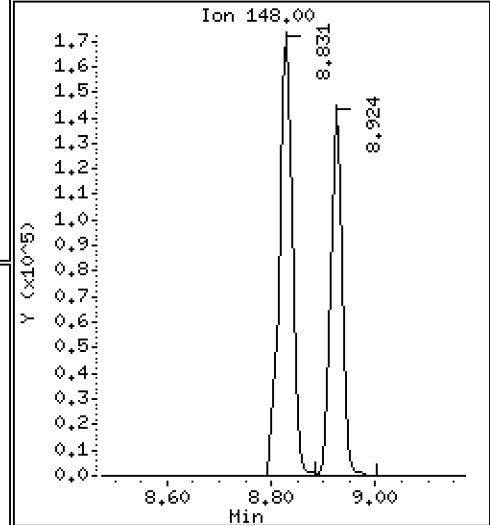
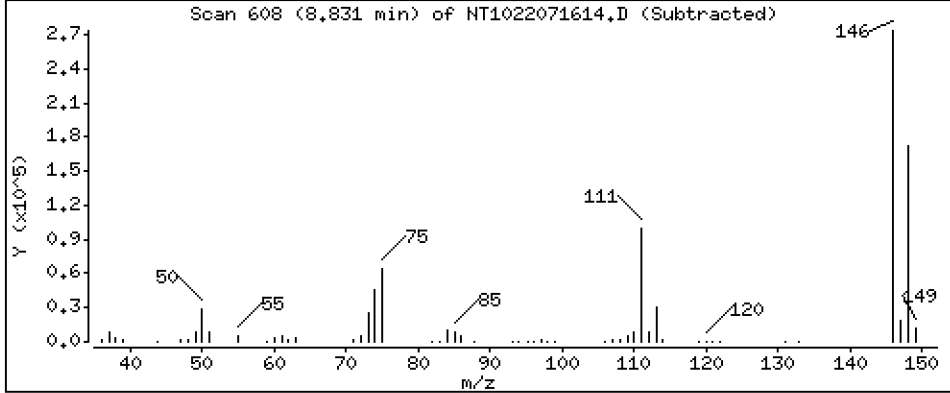
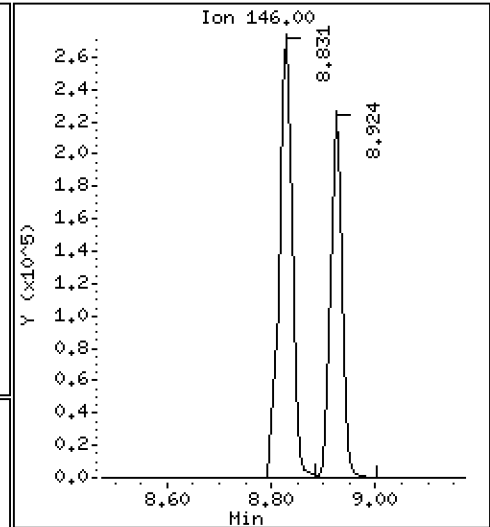
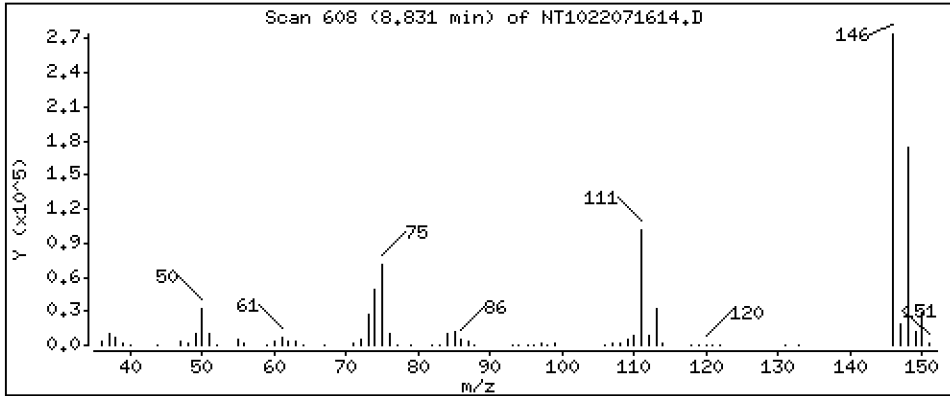
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 6.045 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

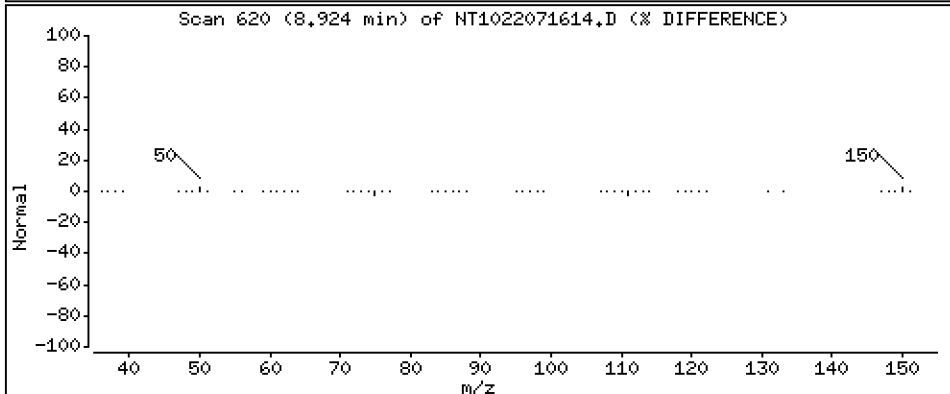
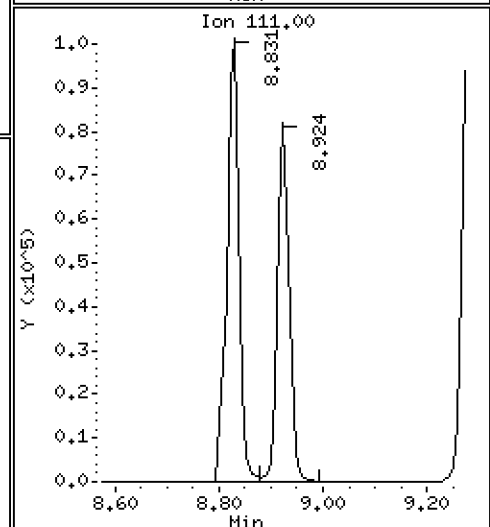
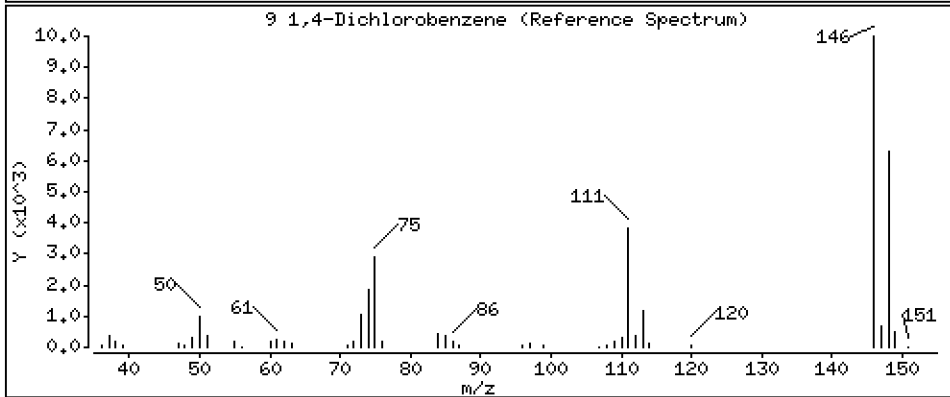
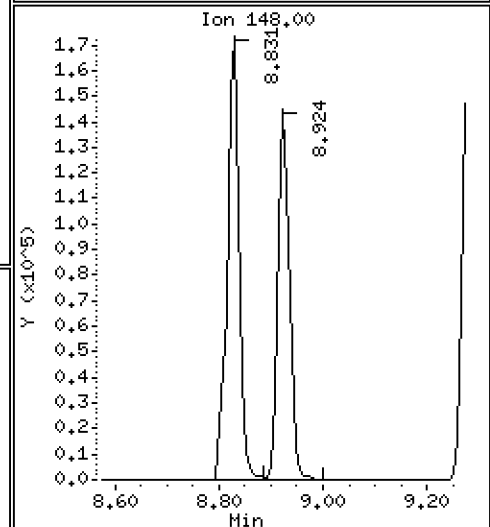
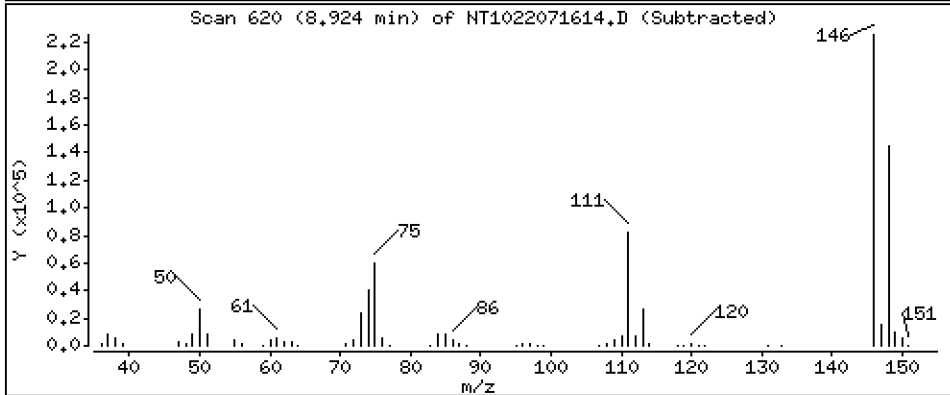
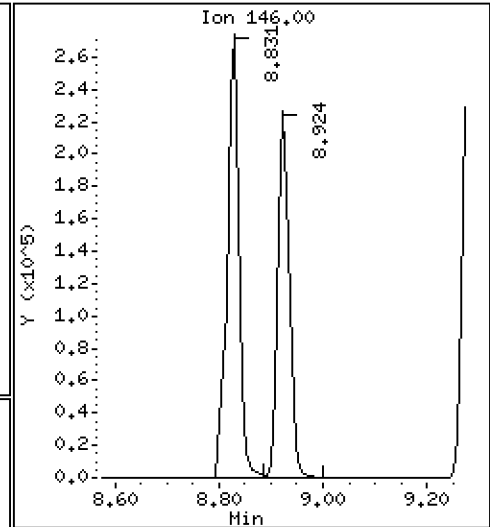
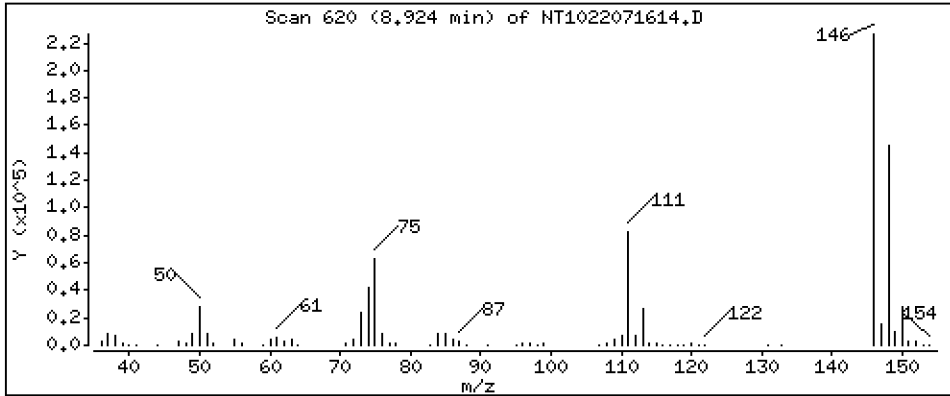
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 5,408 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

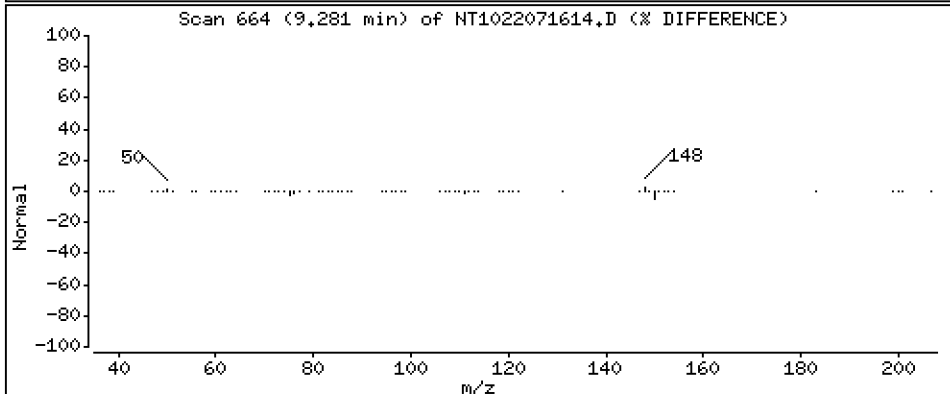
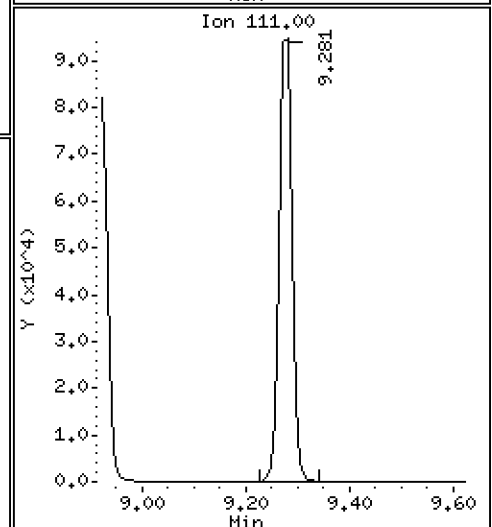
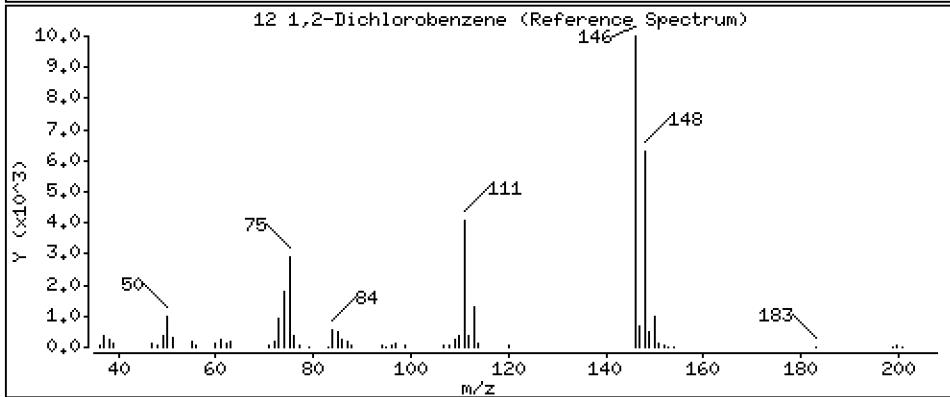
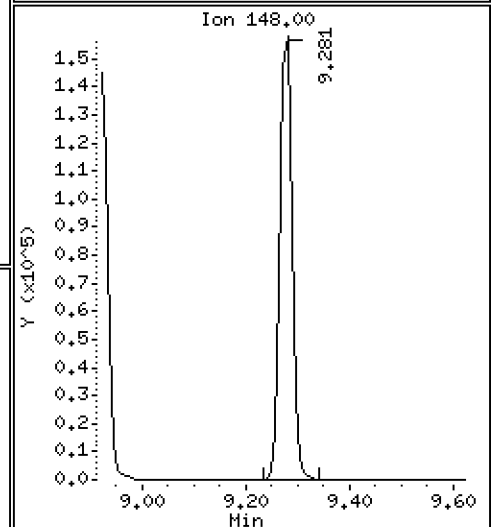
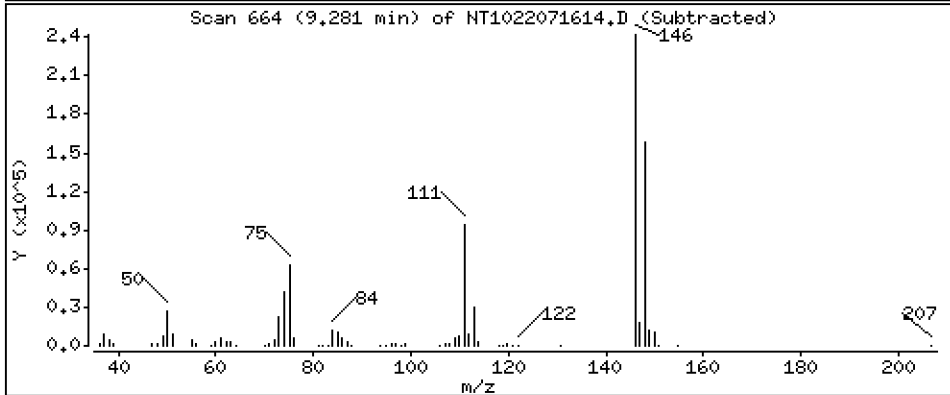
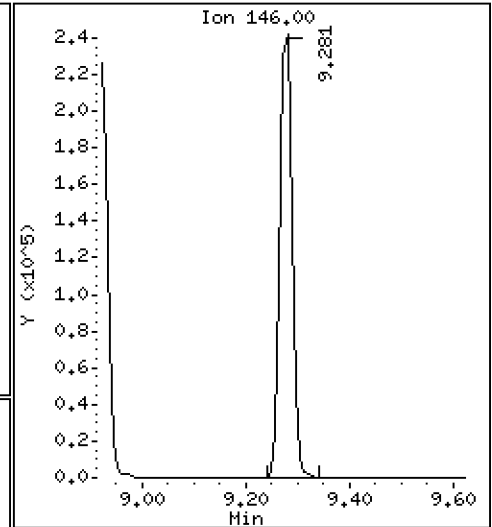
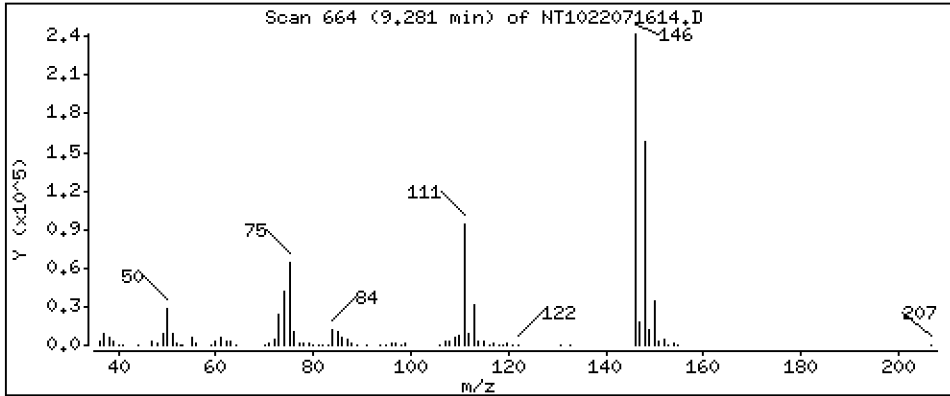
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 5.651 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

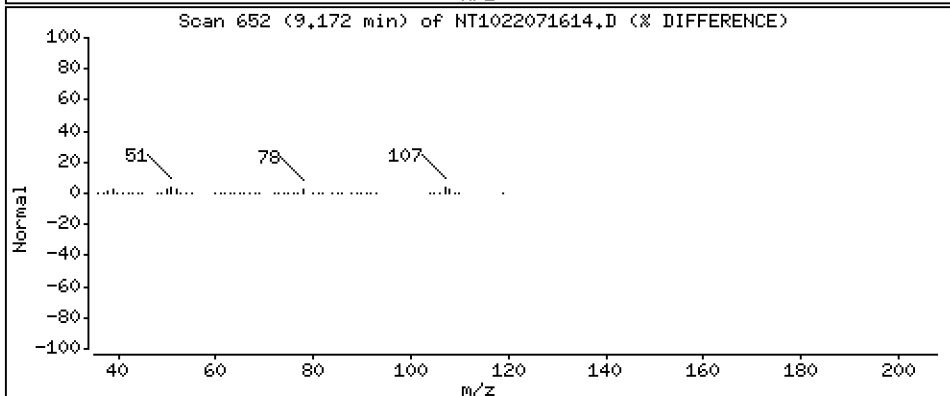
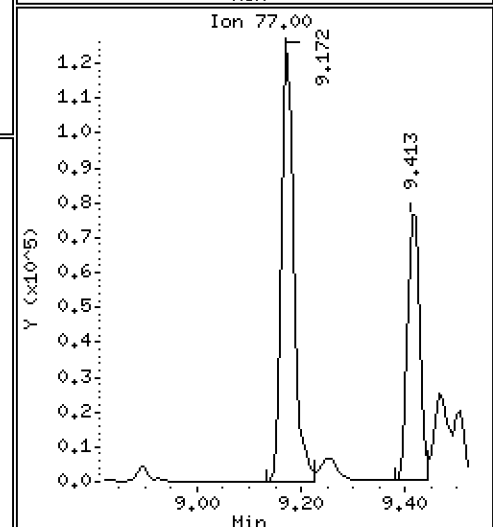
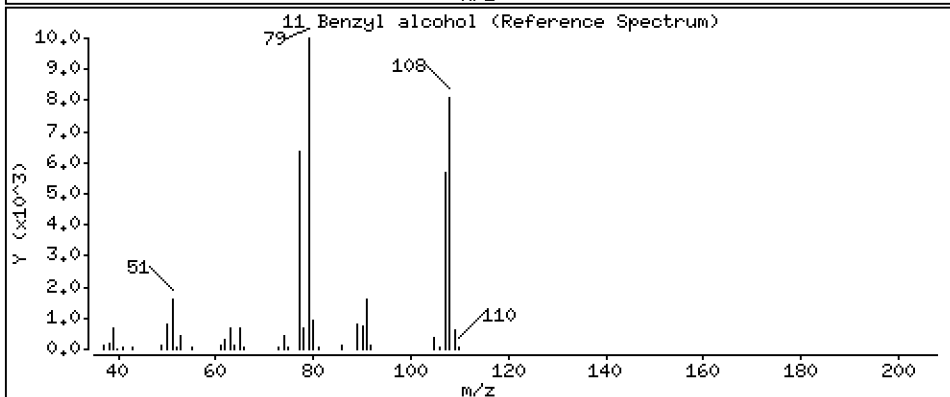
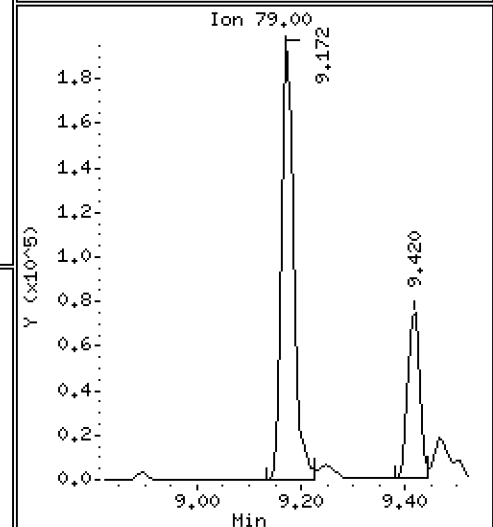
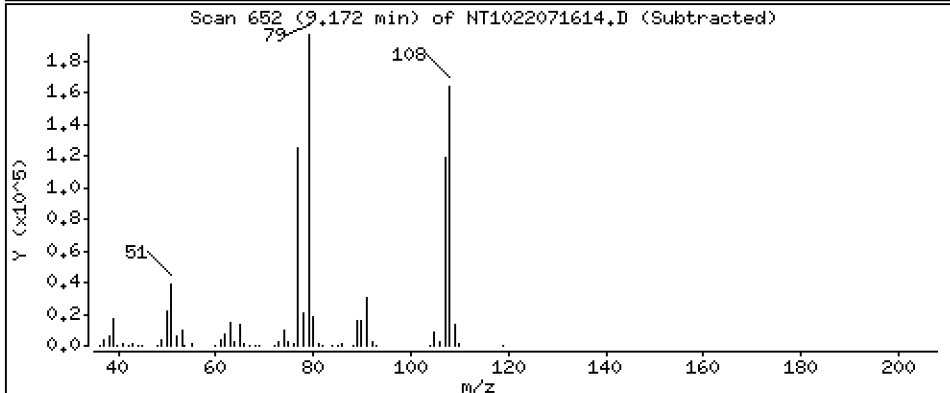
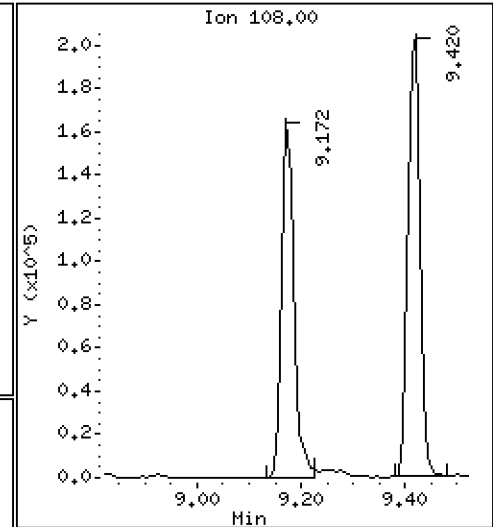
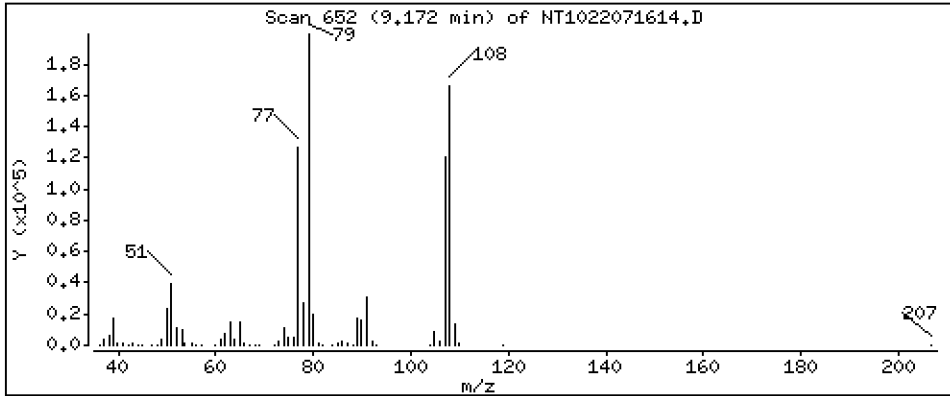
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 7.912 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

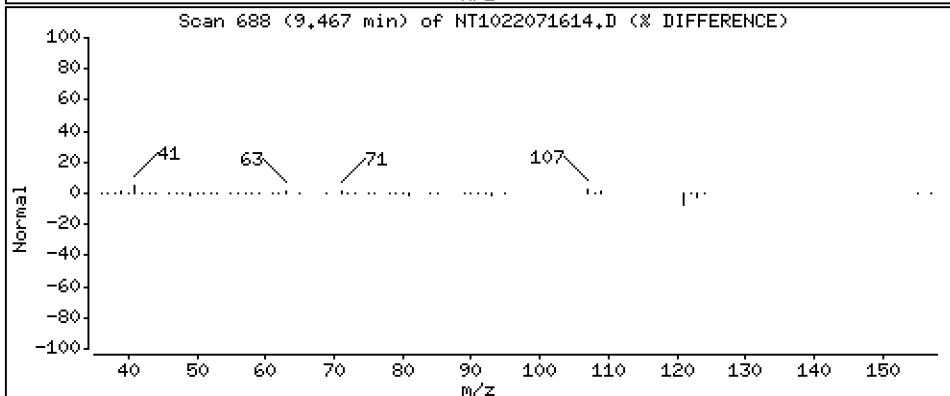
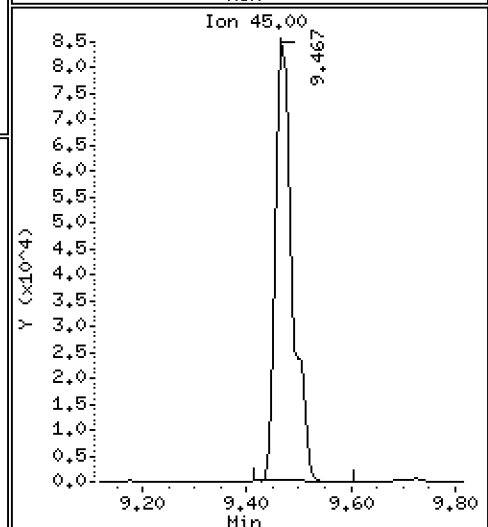
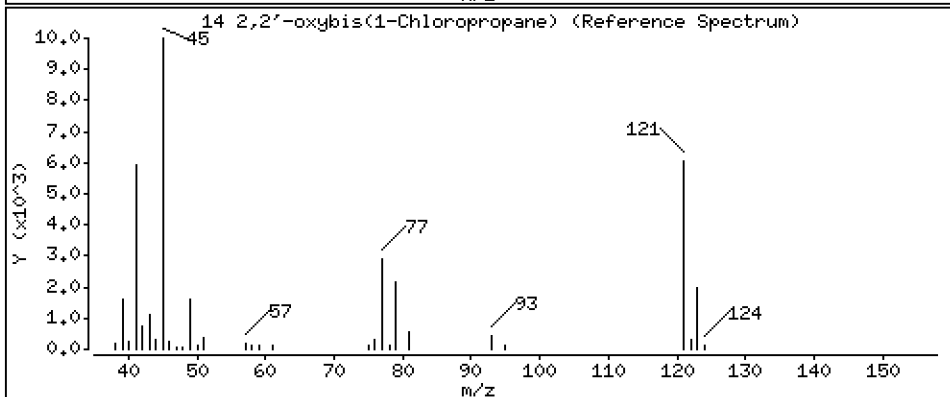
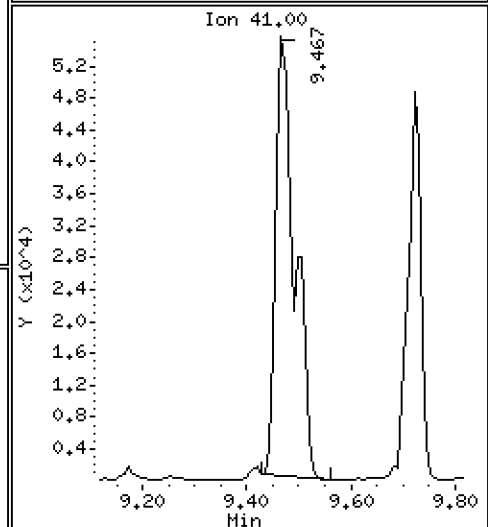
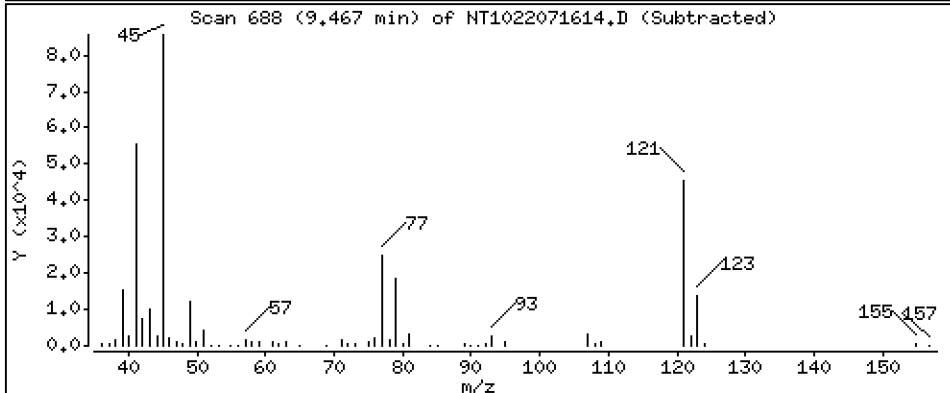
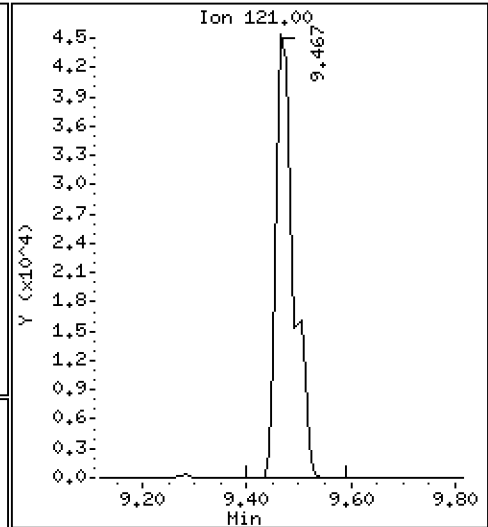
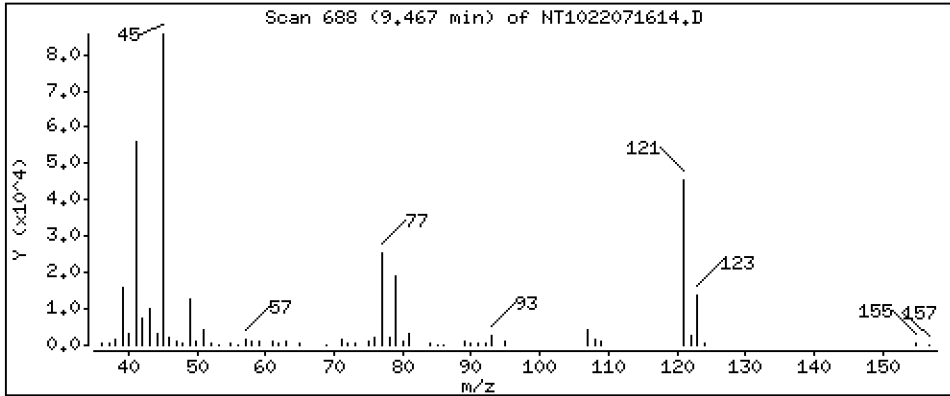
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 6,621 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

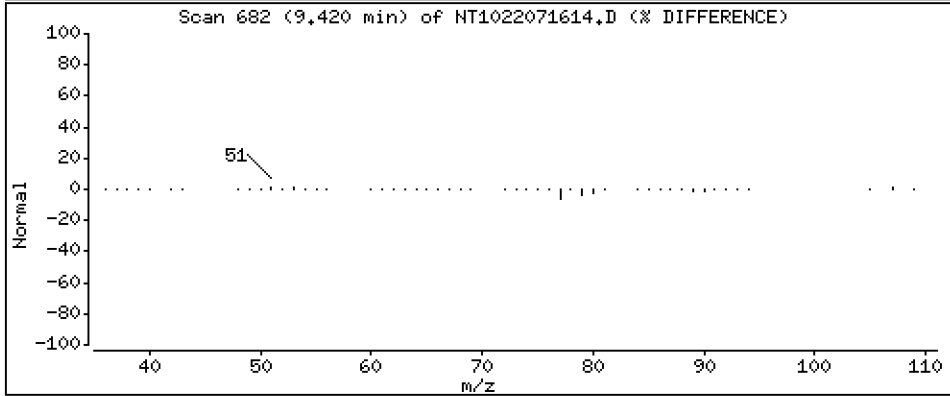
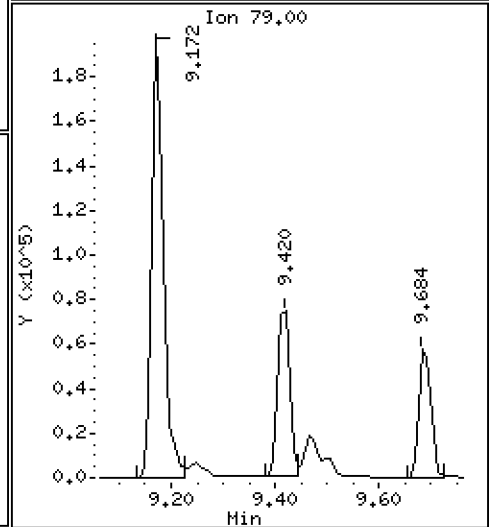
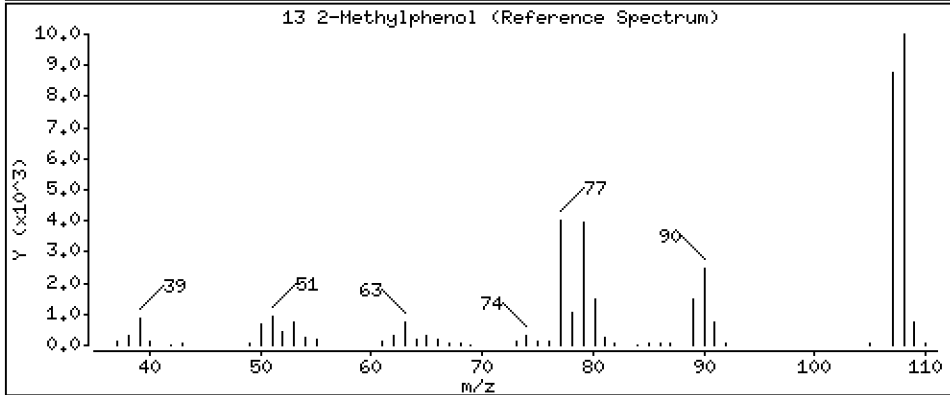
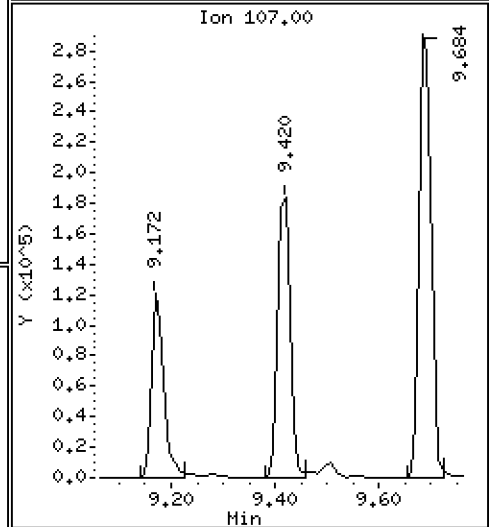
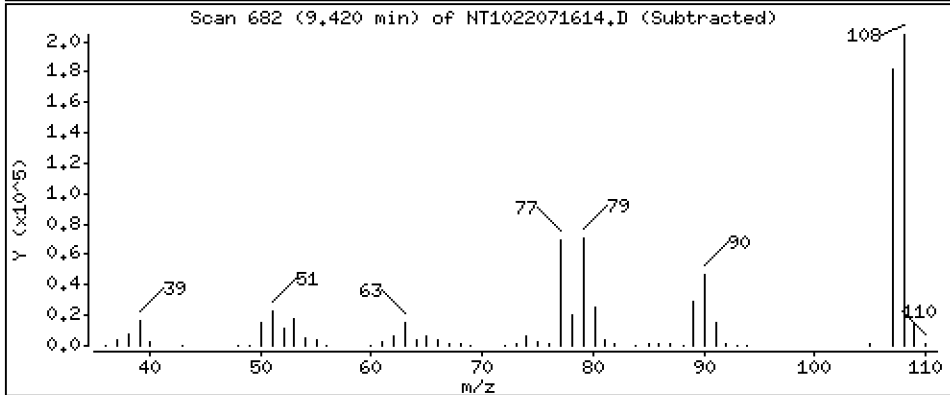
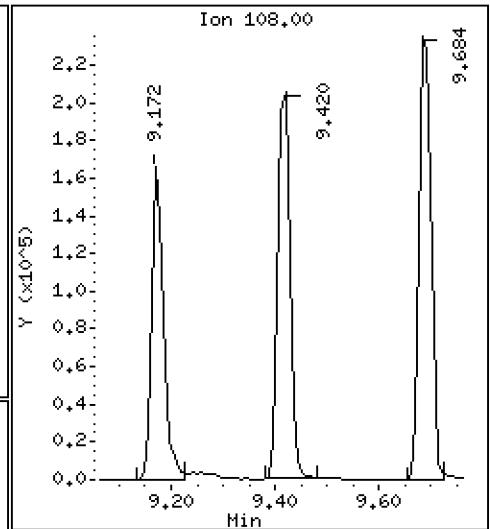
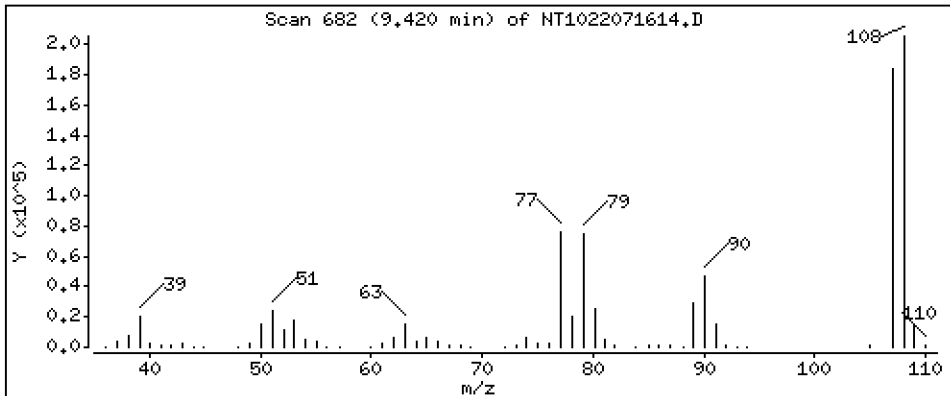
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 5,598 ug/mL

13 2-Methylphenol



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

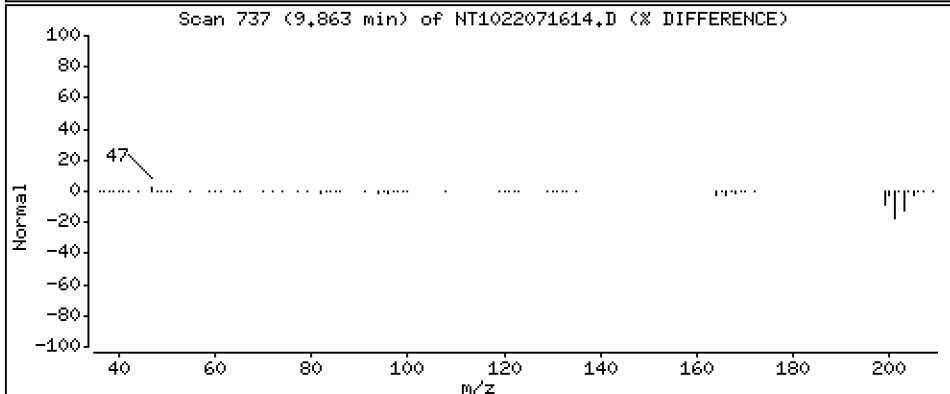
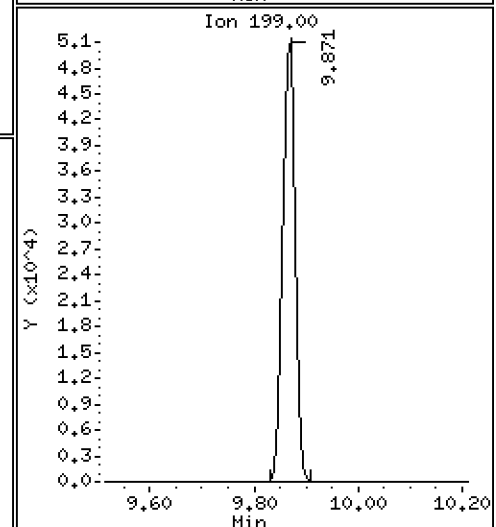
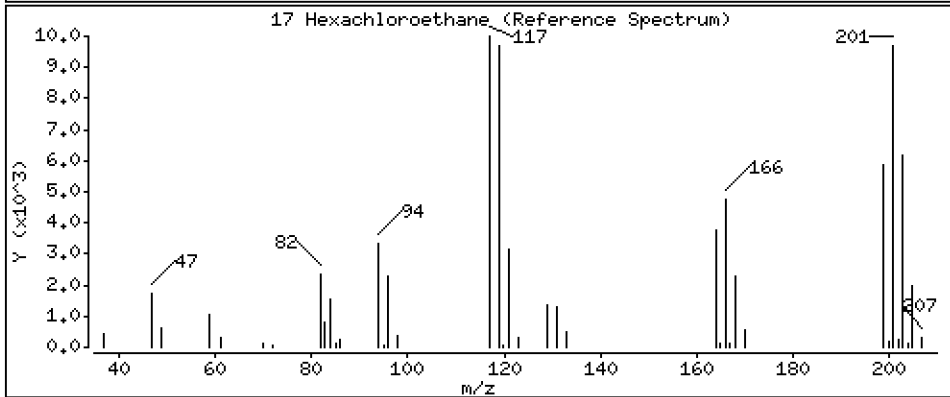
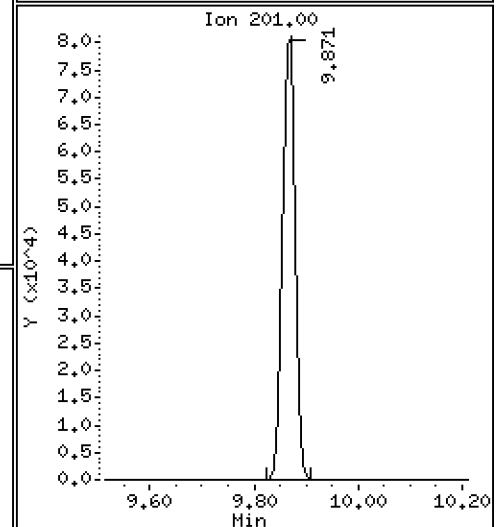
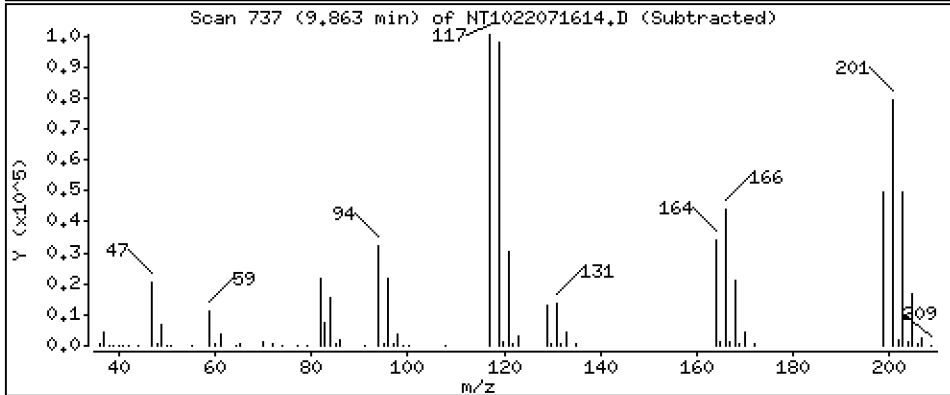
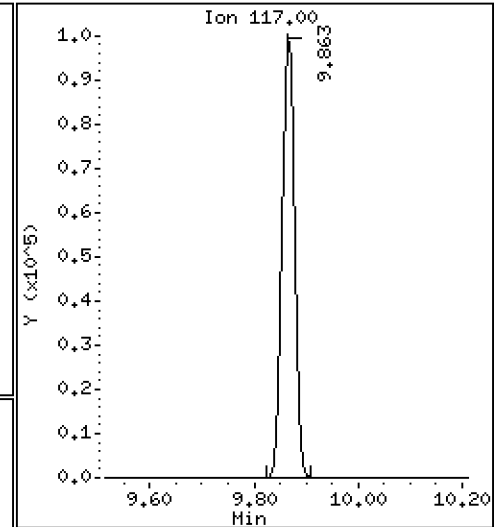
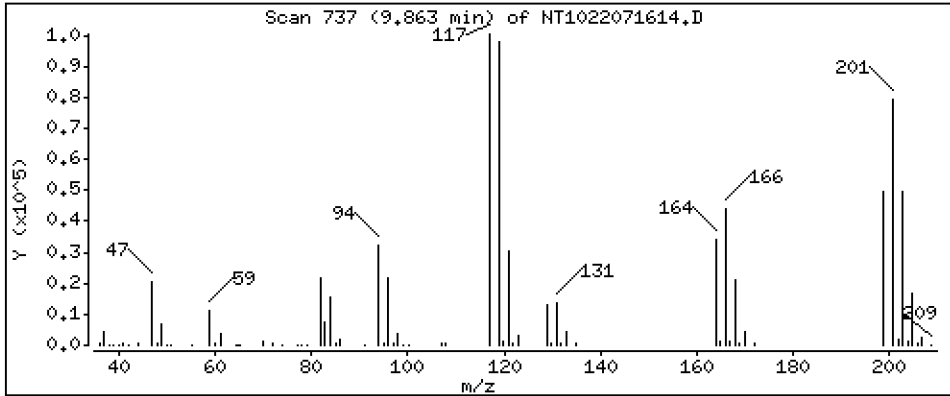
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,684 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

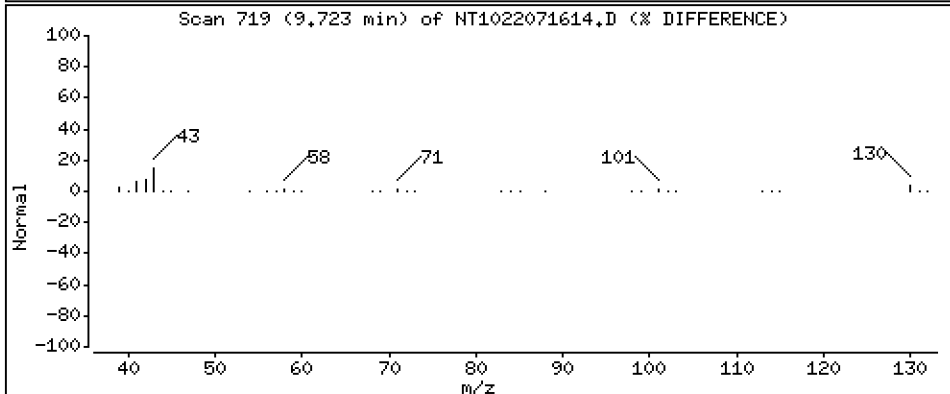
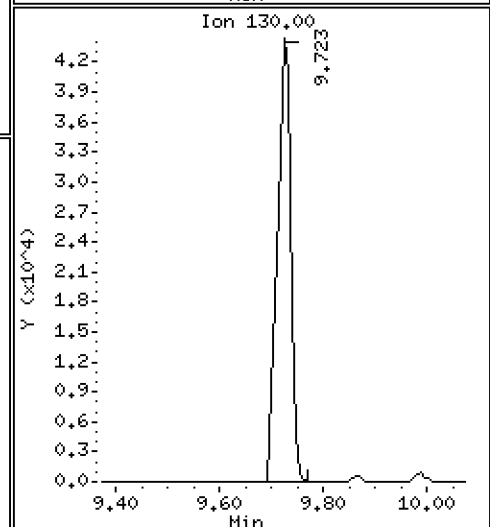
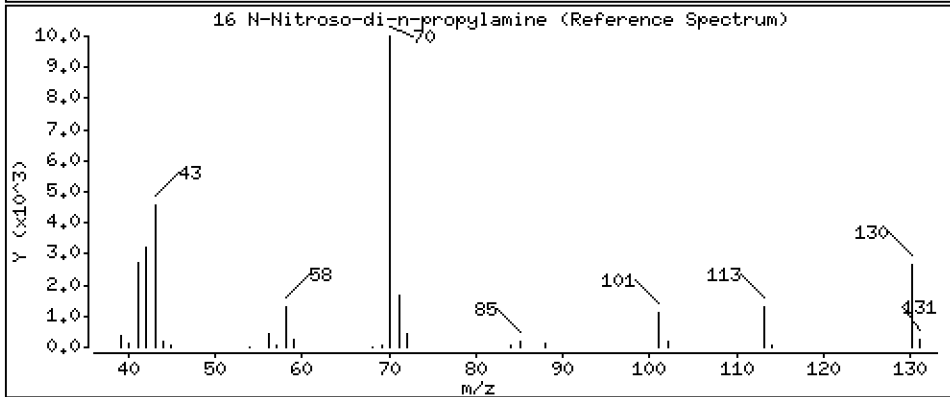
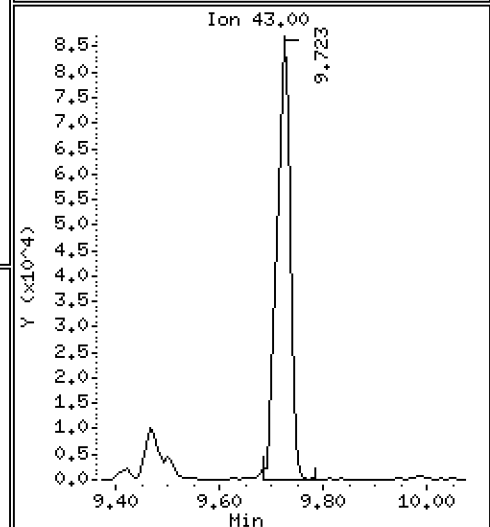
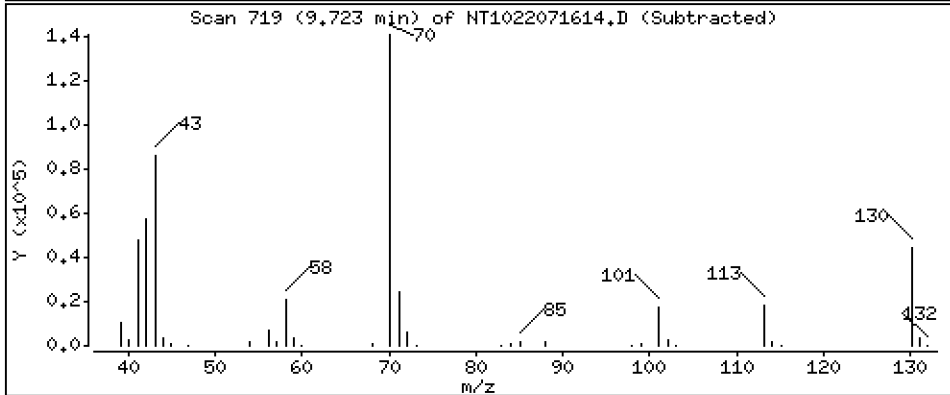
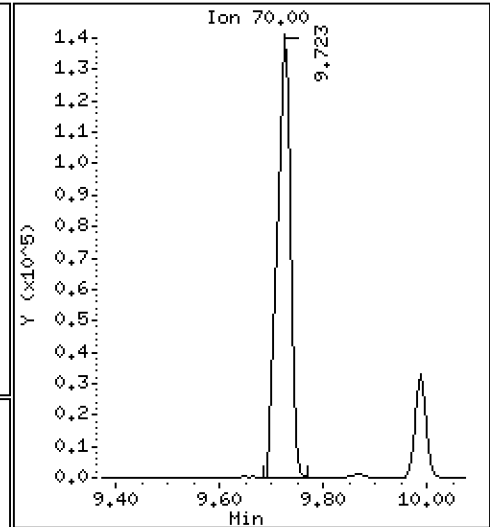
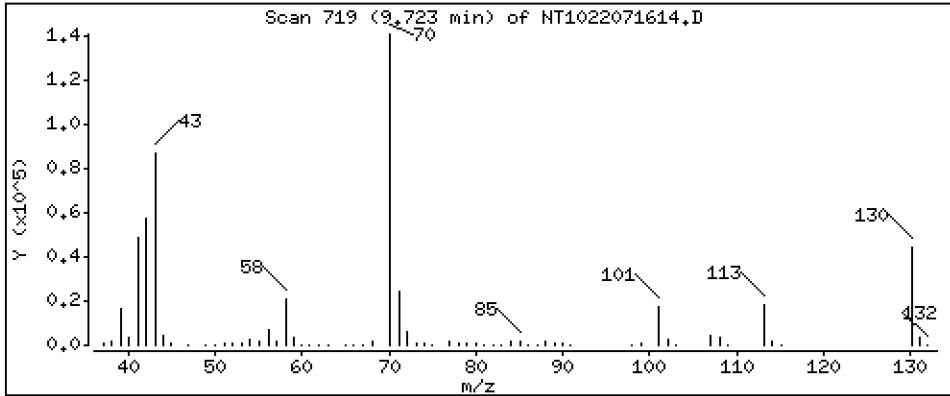
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 6,005 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

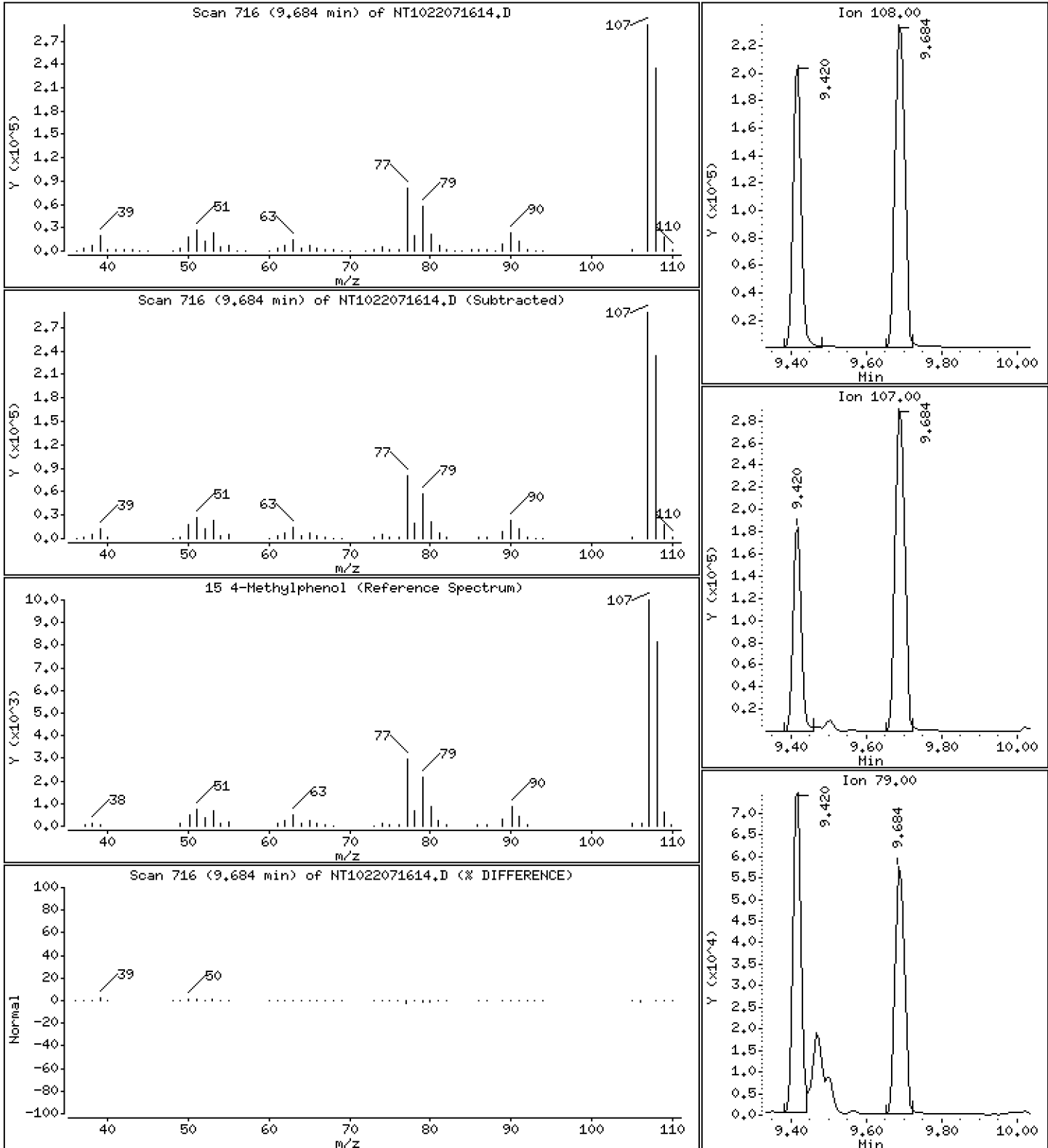
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 6,222 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

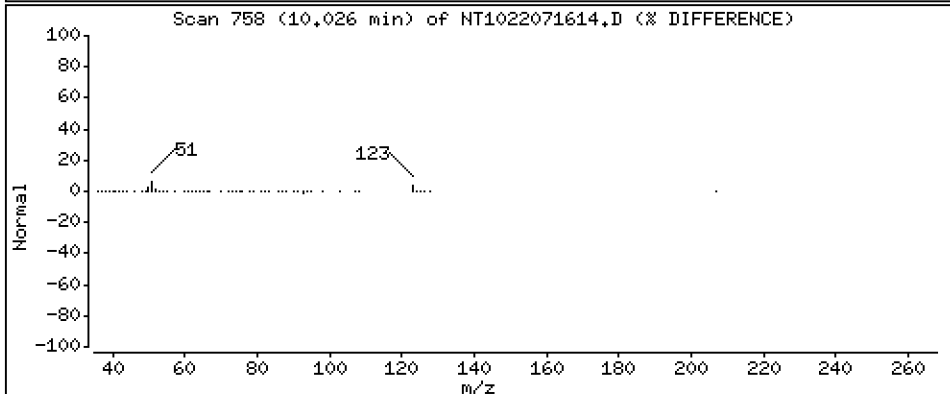
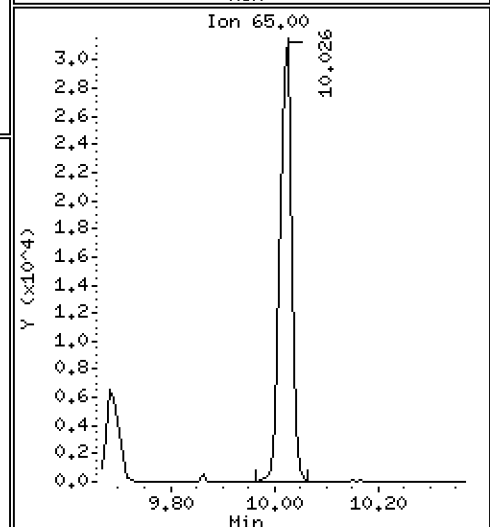
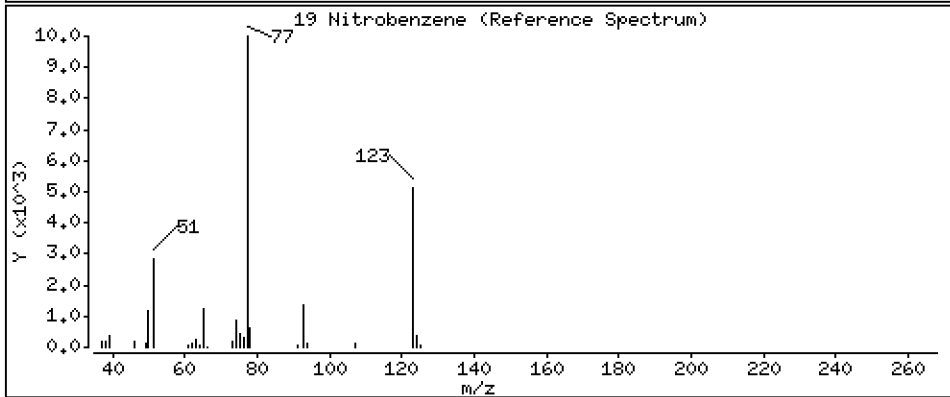
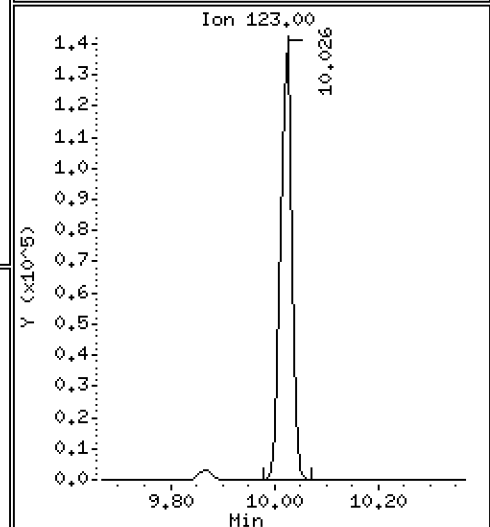
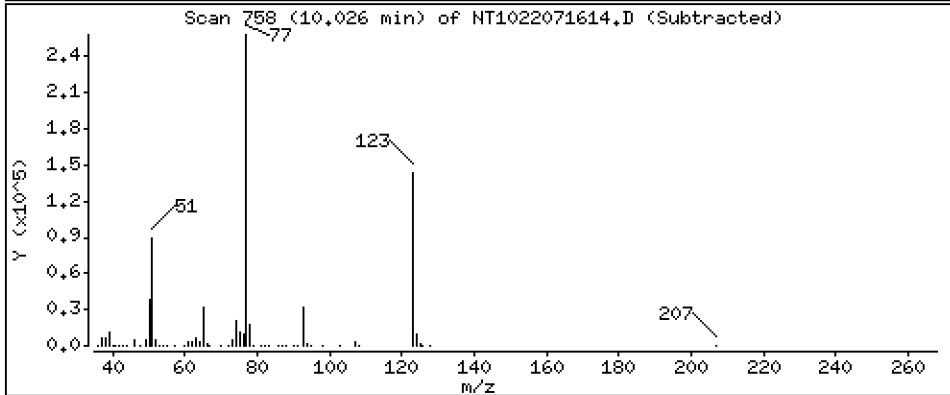
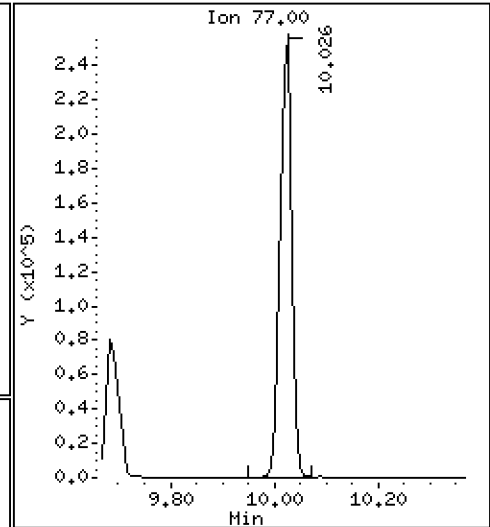
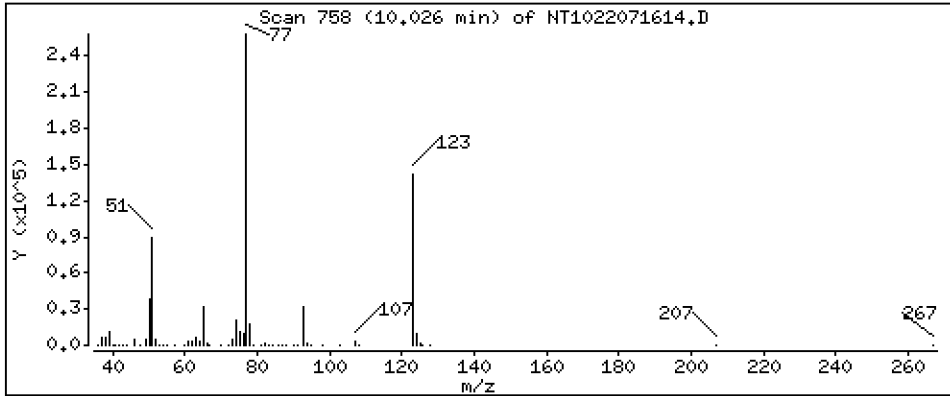
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 5,164 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

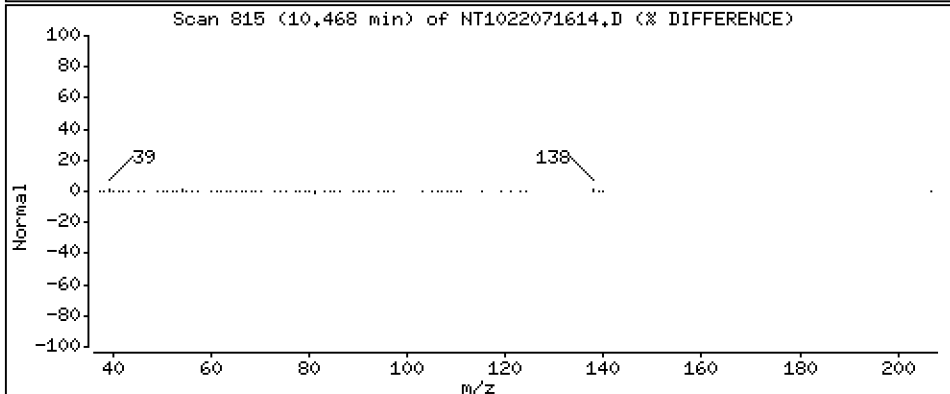
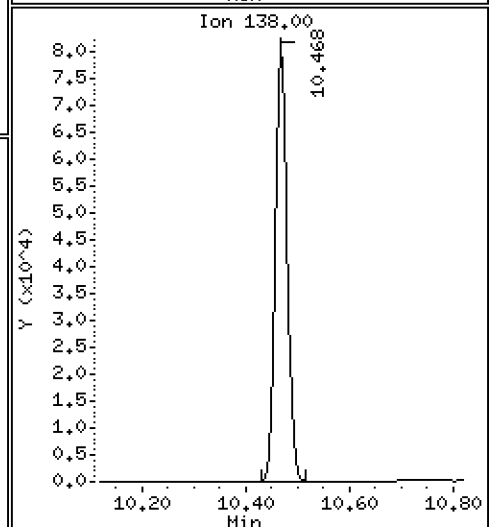
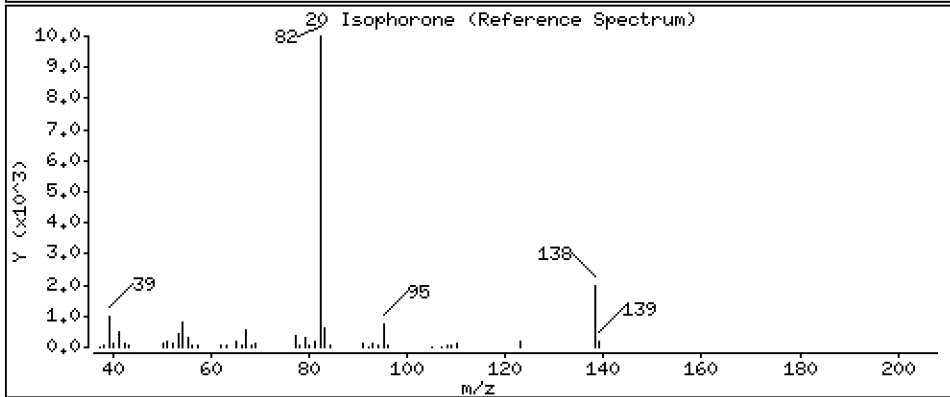
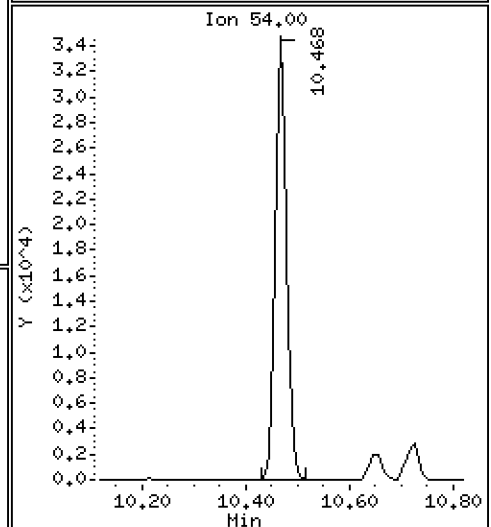
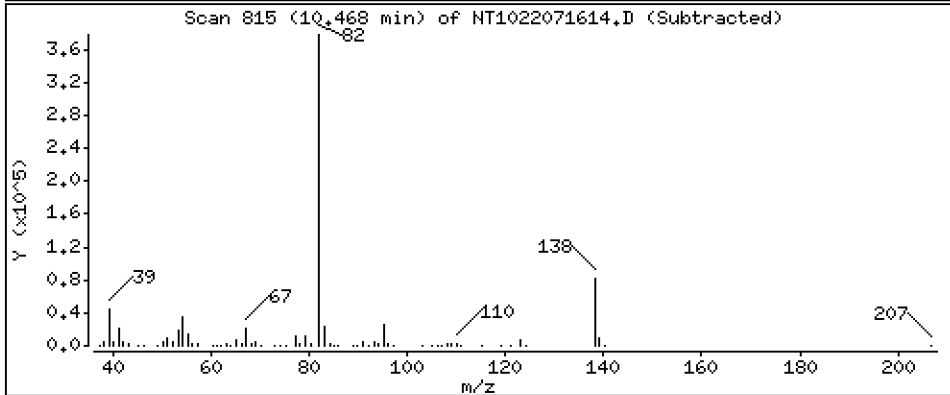
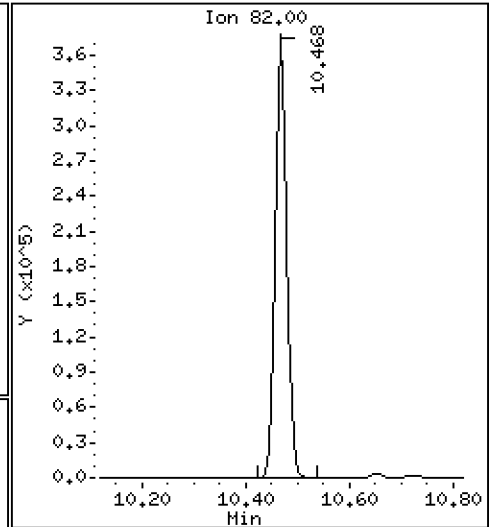
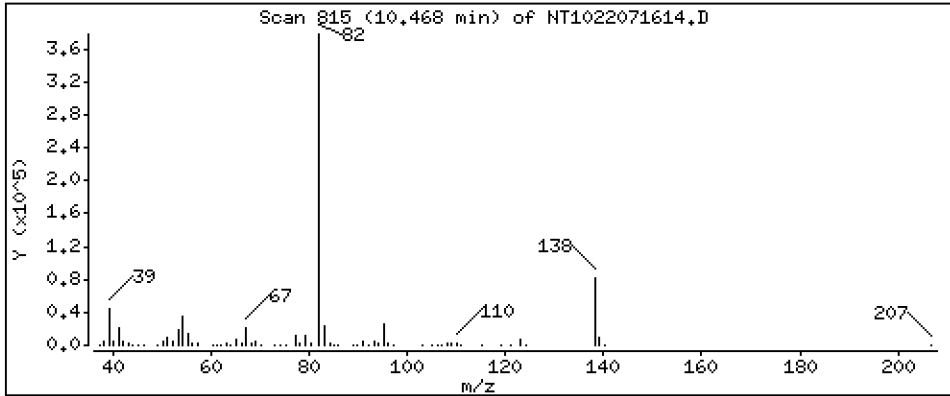
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,420 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

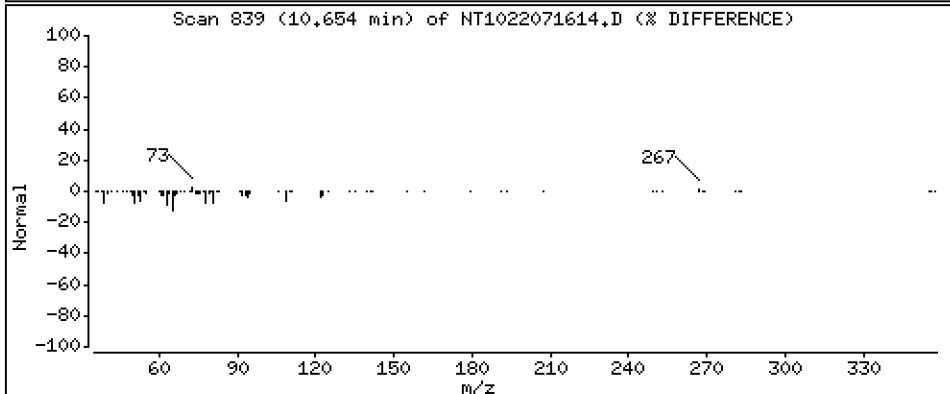
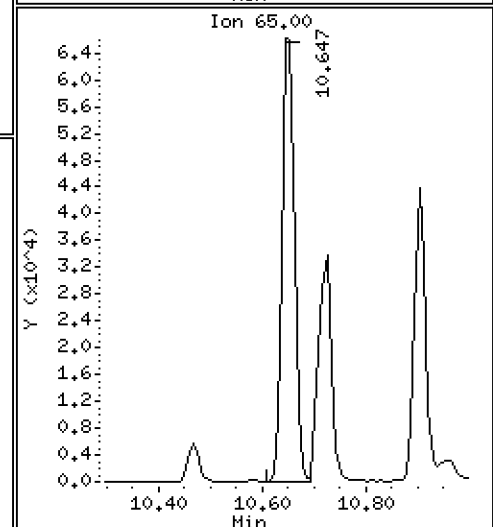
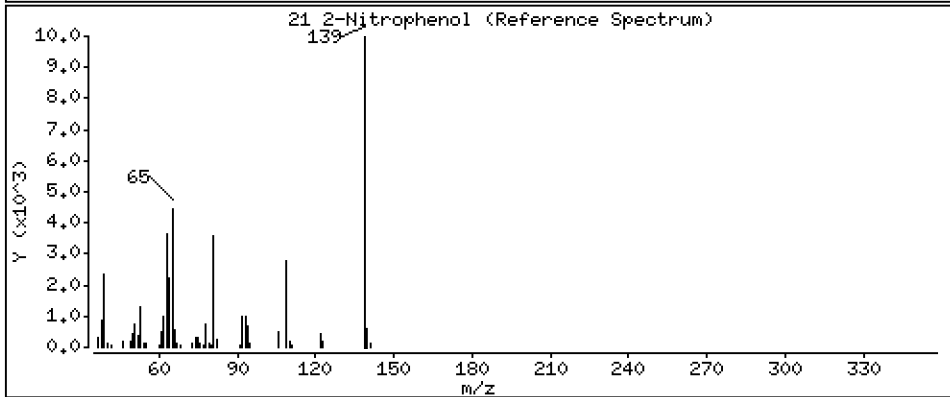
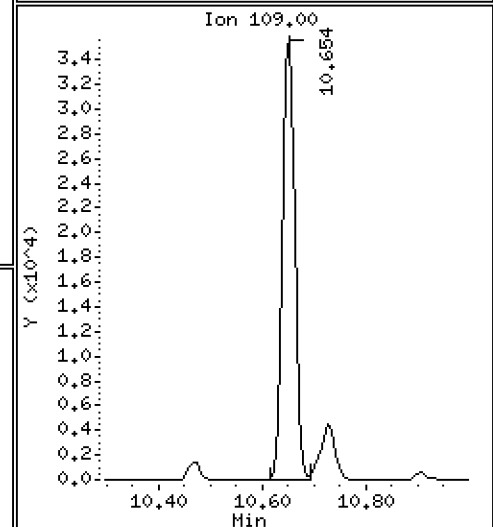
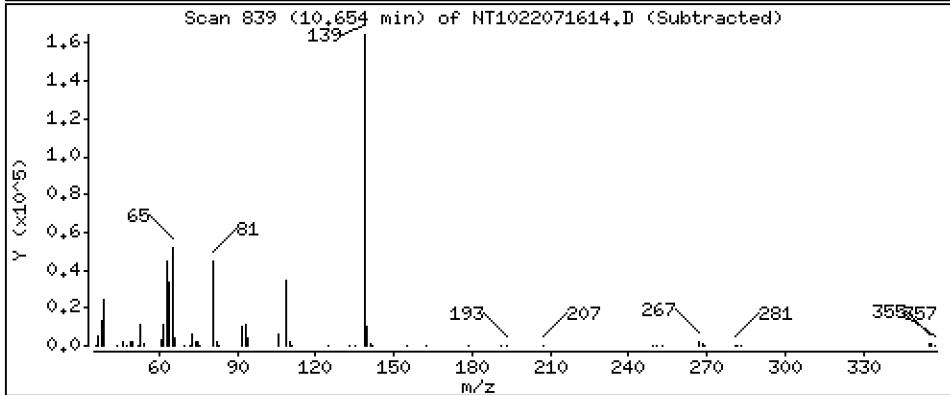
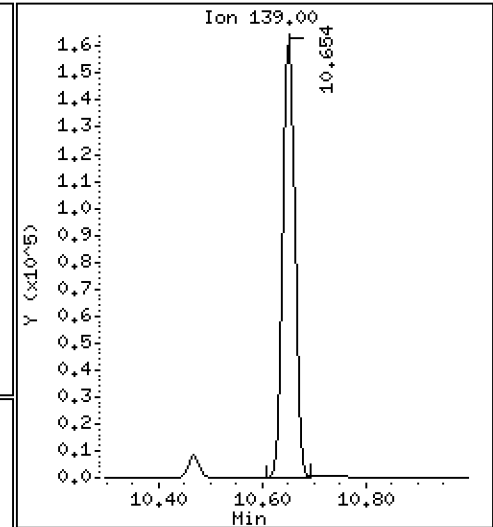
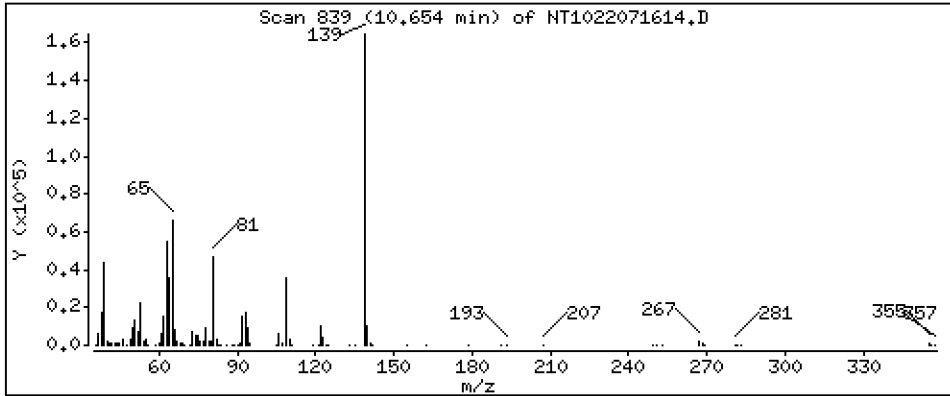
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,371 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

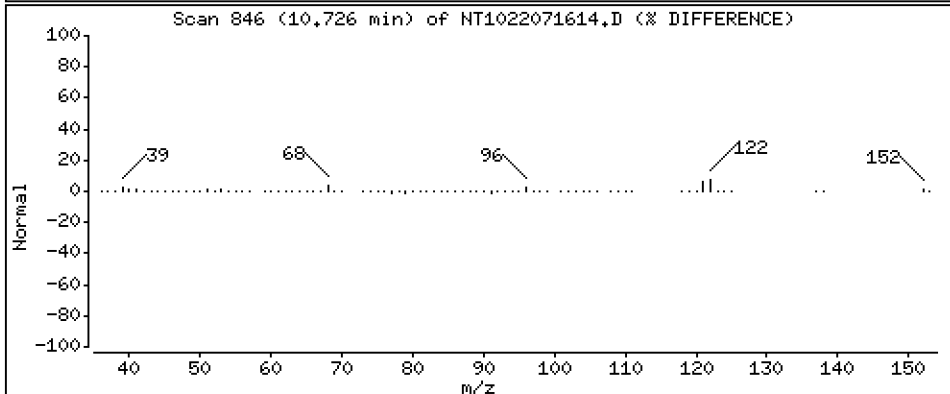
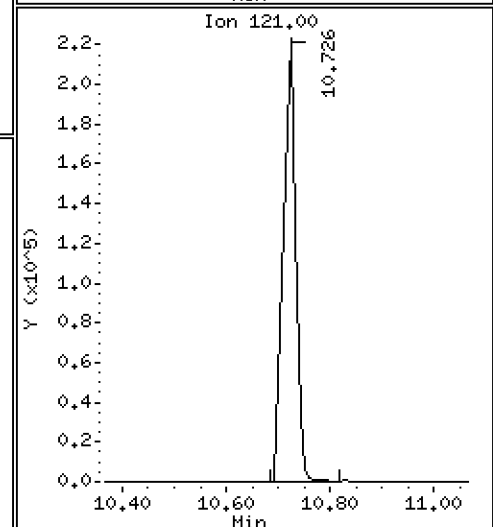
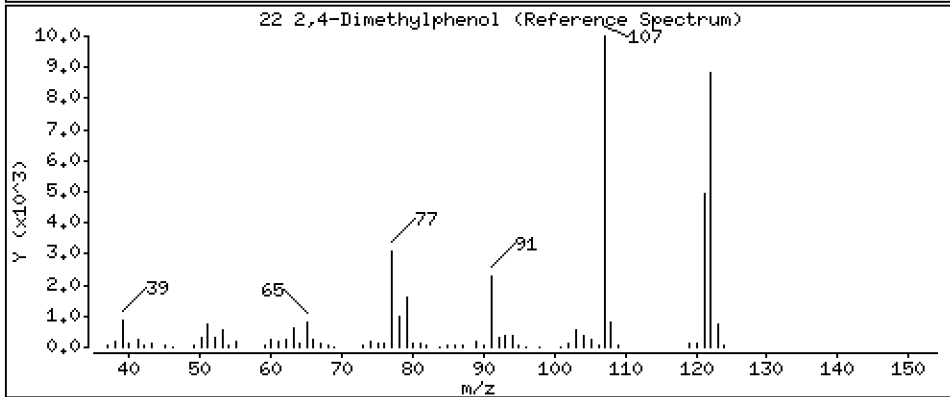
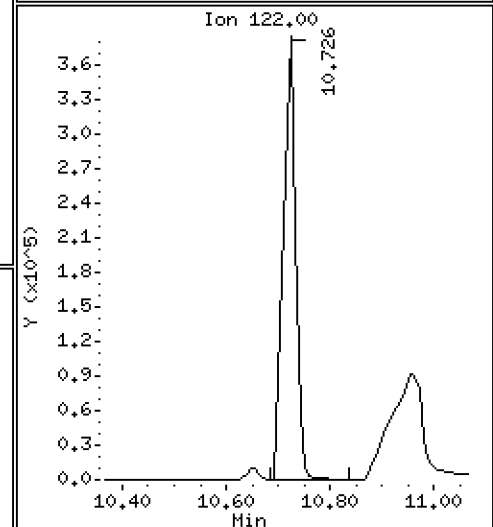
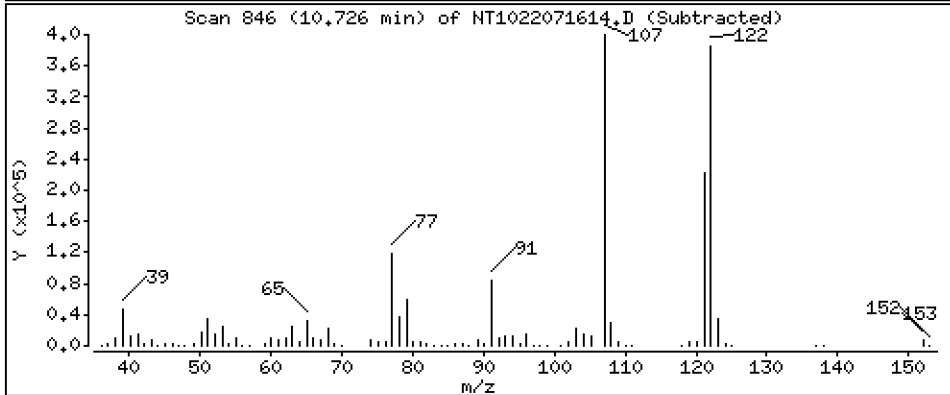
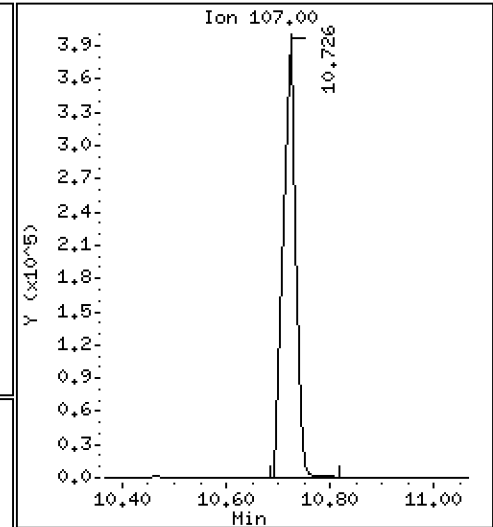
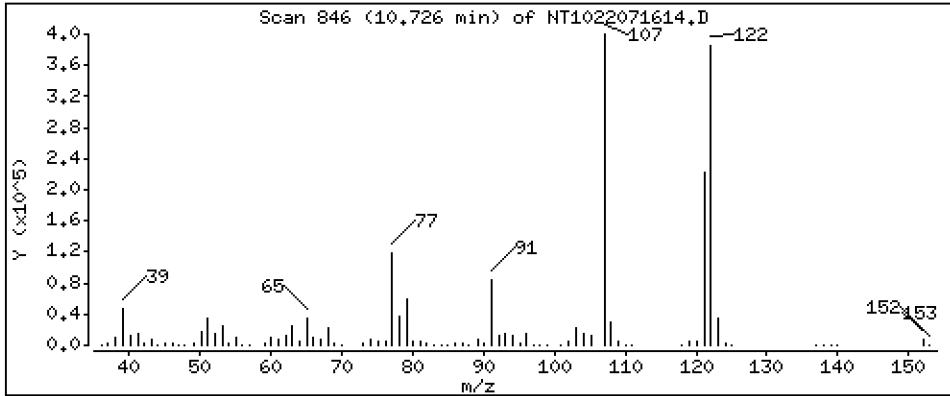
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 10,35 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

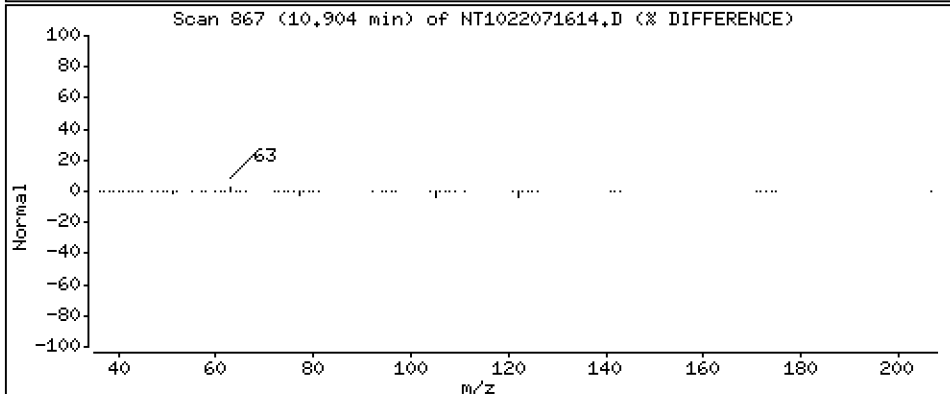
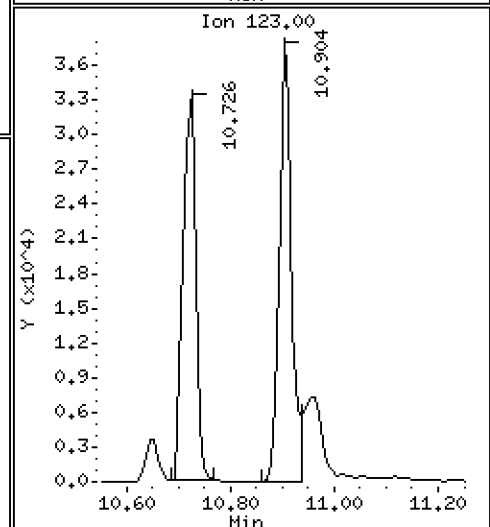
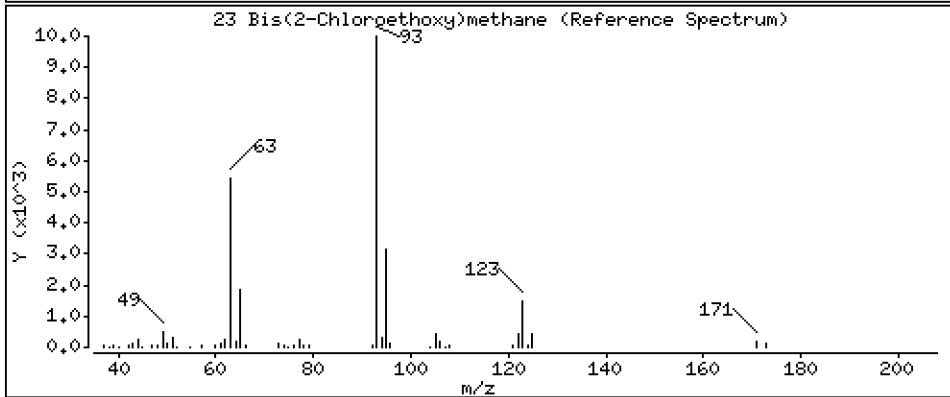
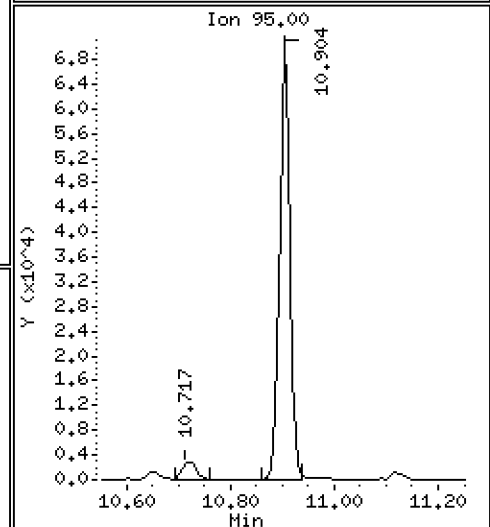
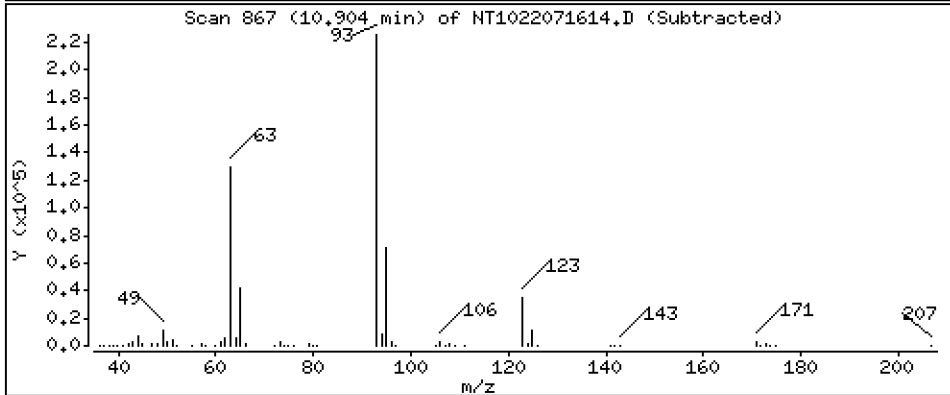
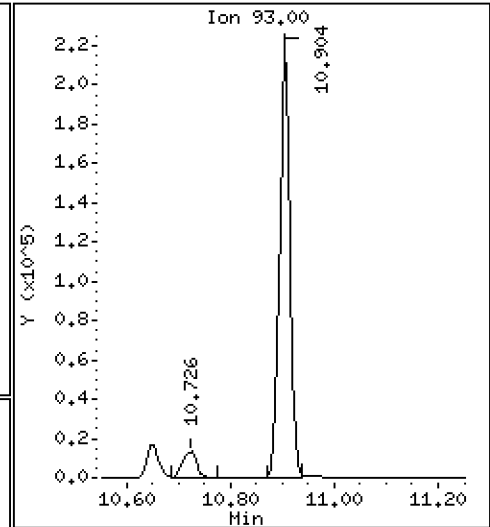
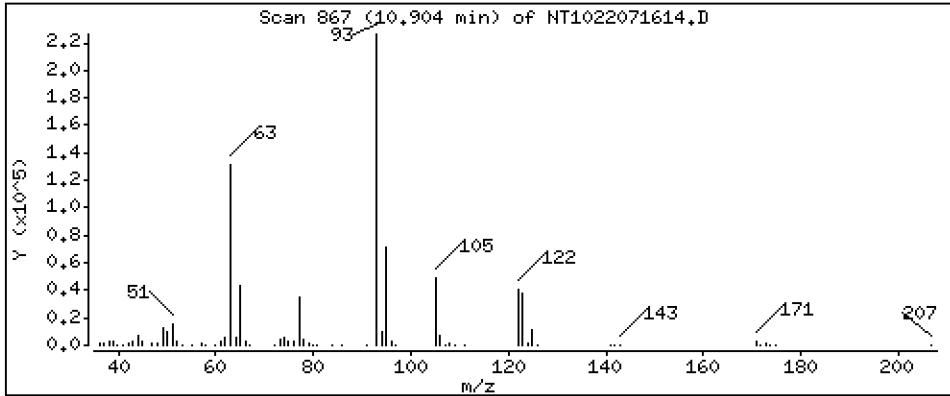
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 4.935 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

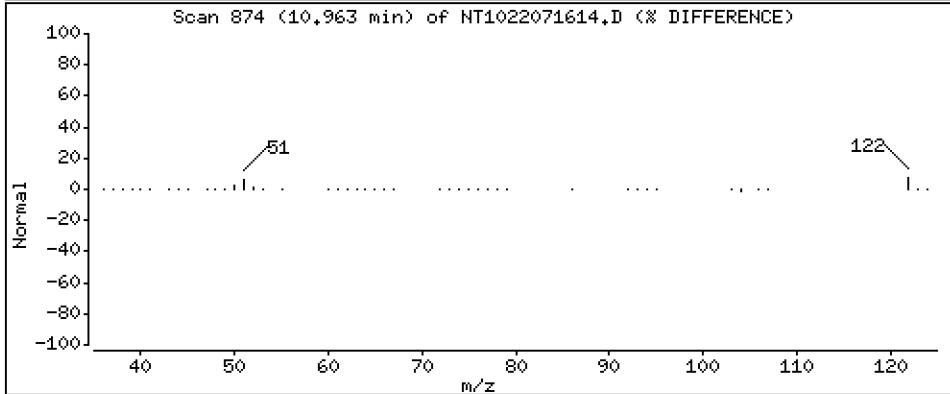
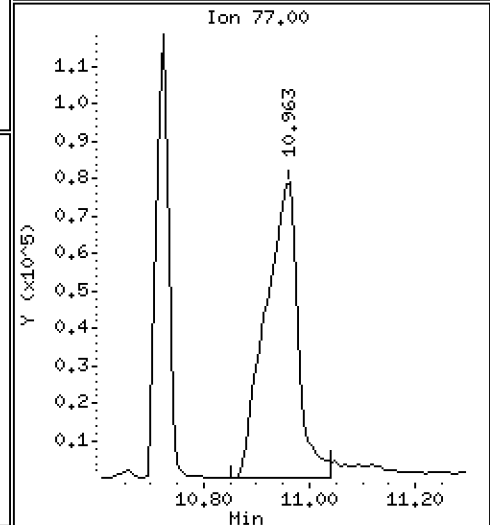
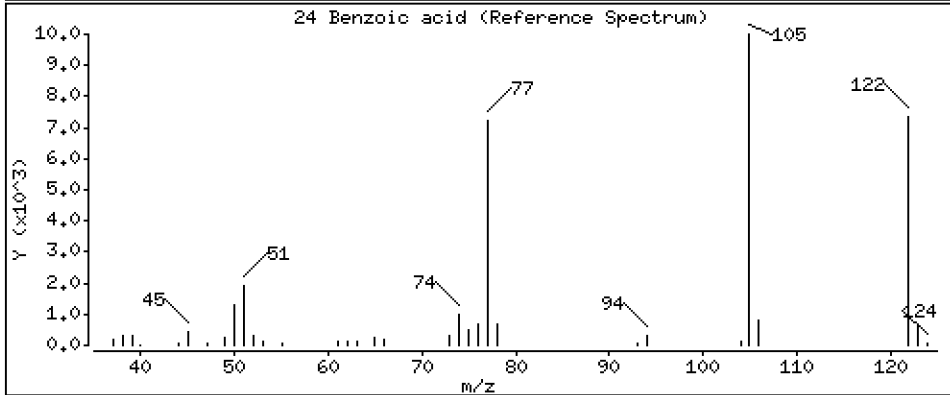
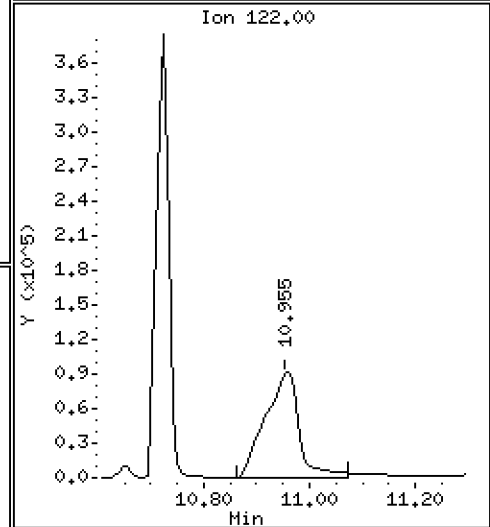
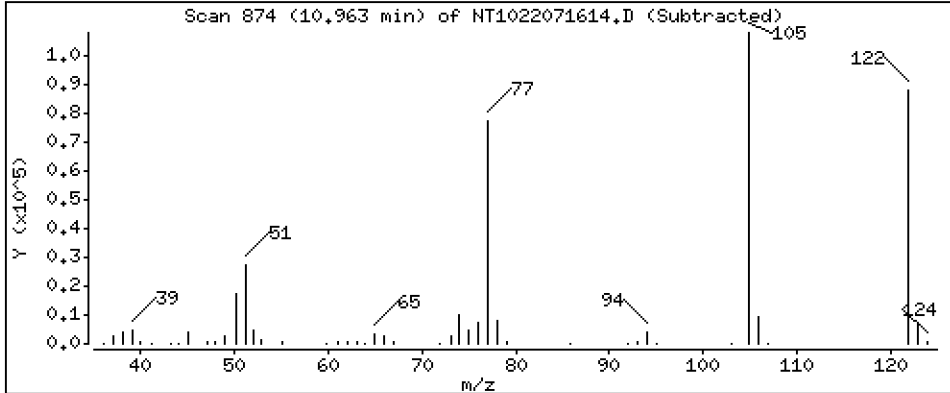
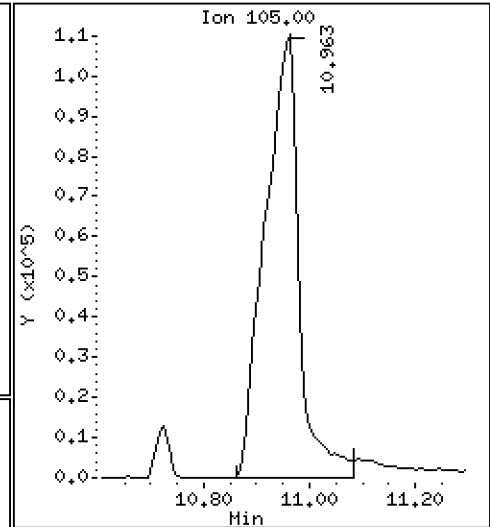
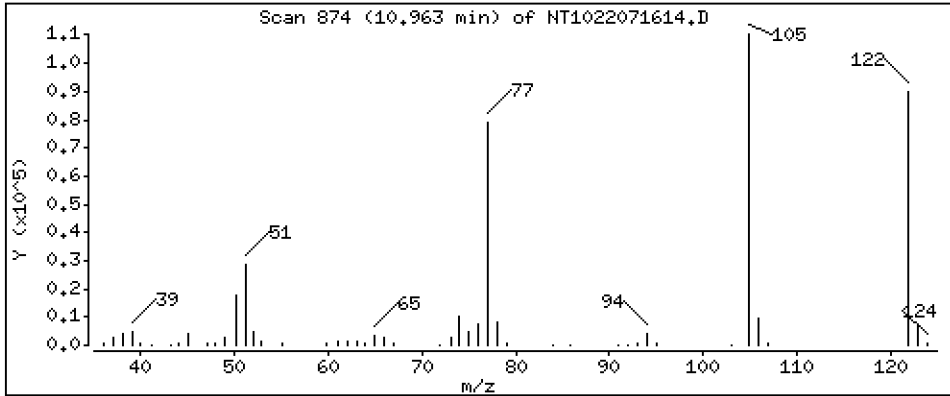
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 16,45 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

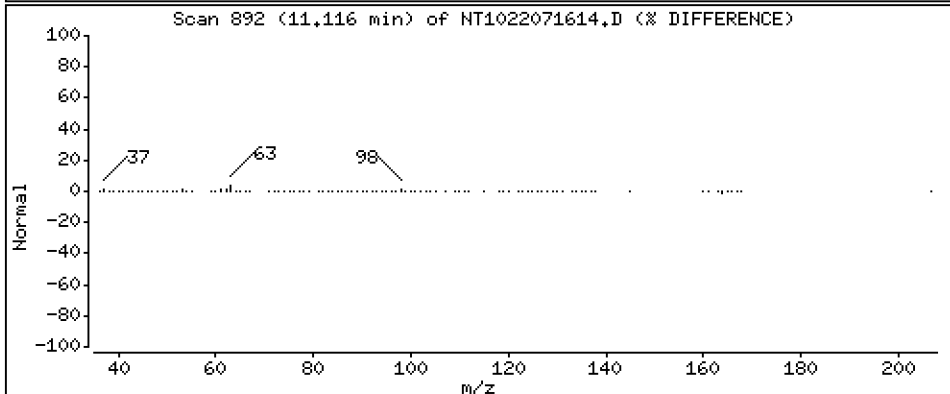
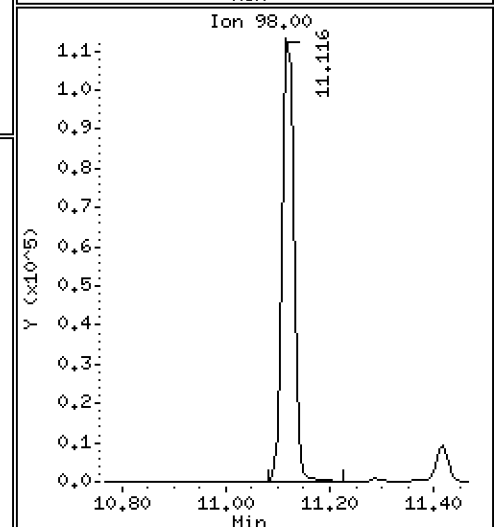
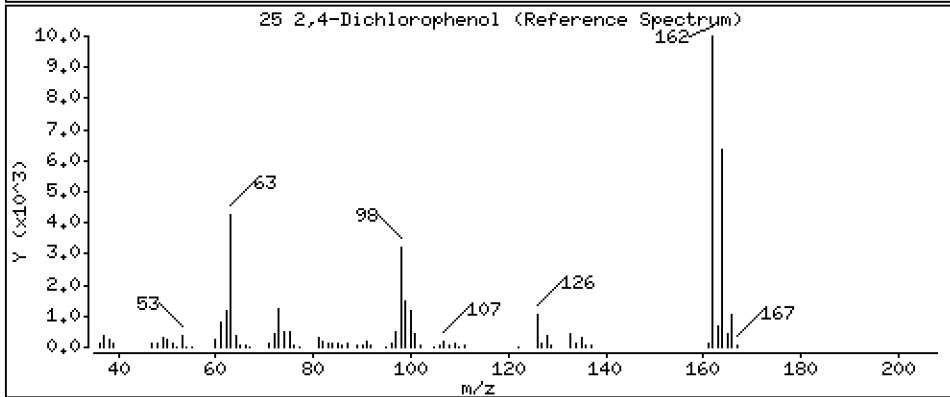
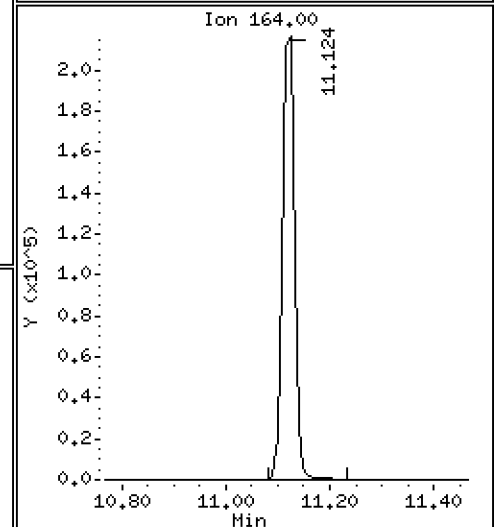
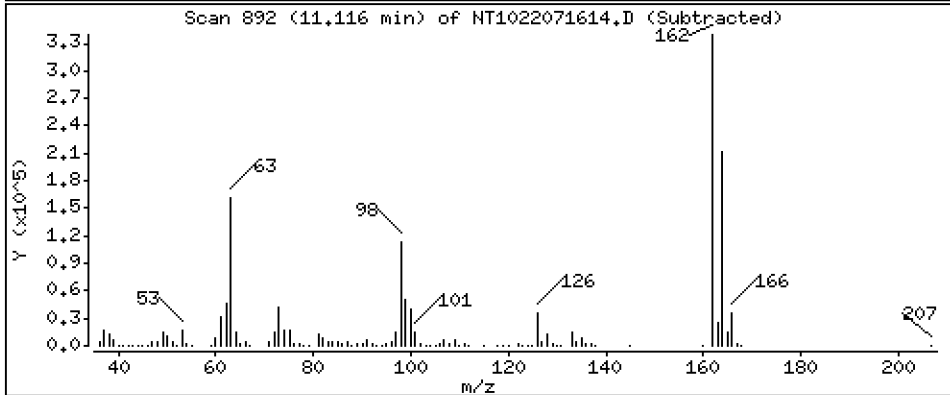
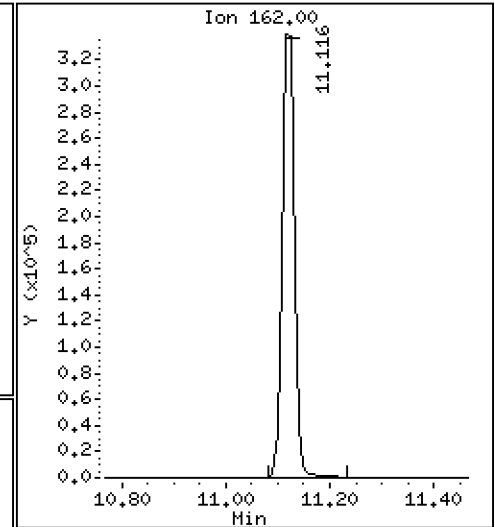
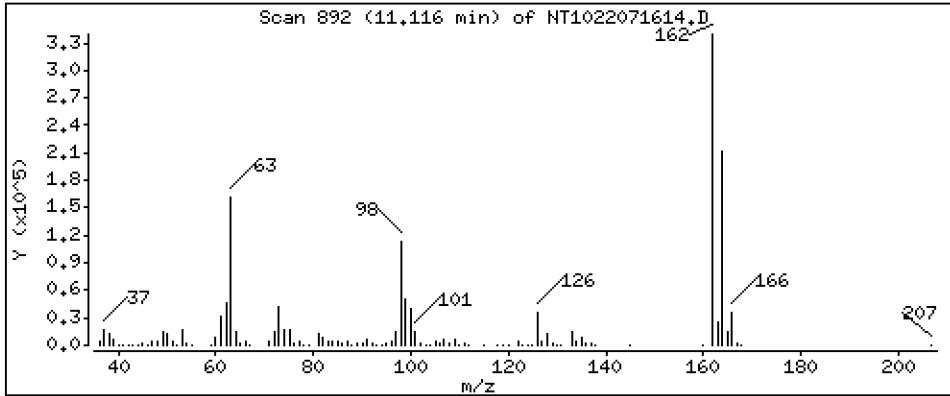
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 9,619 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

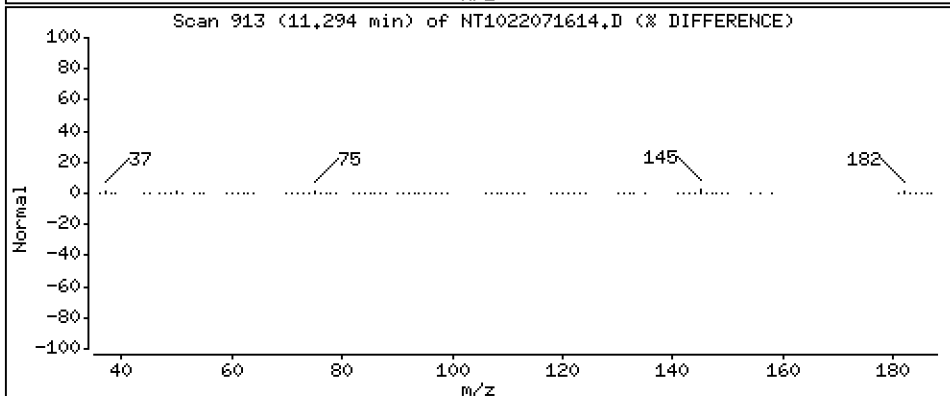
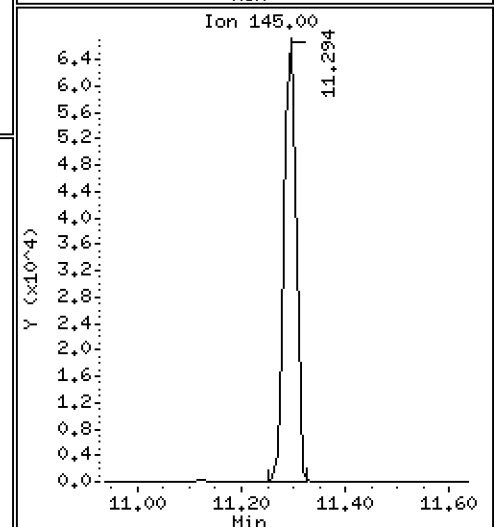
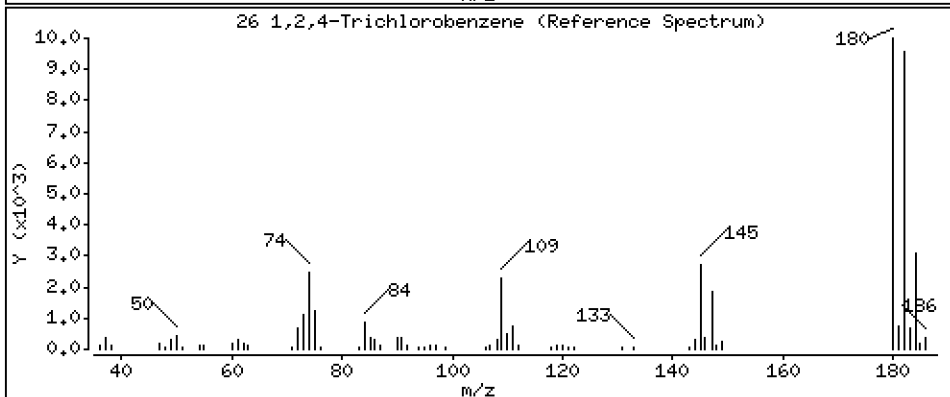
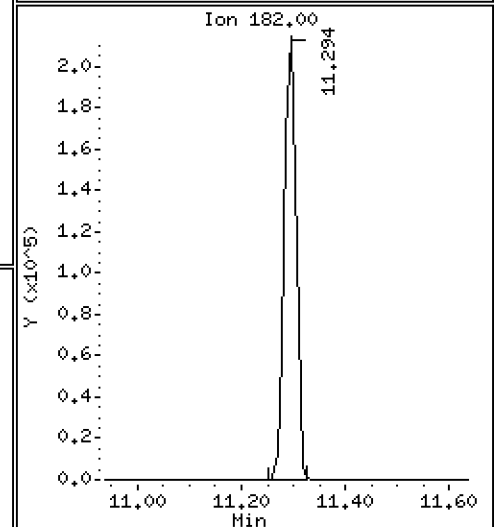
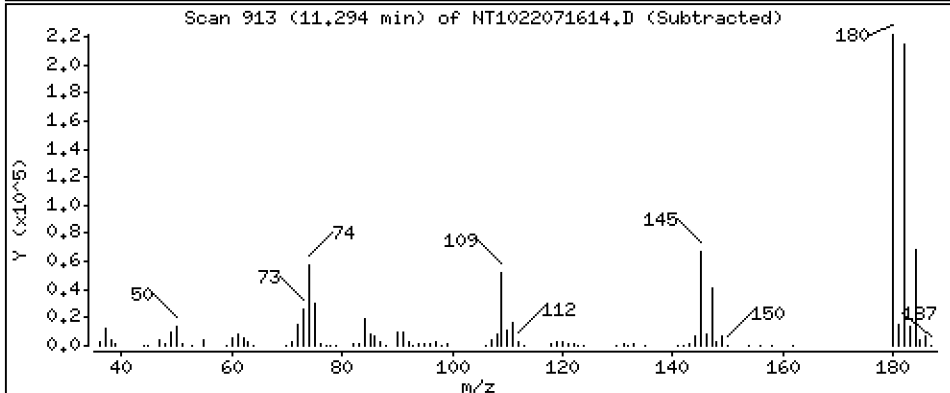
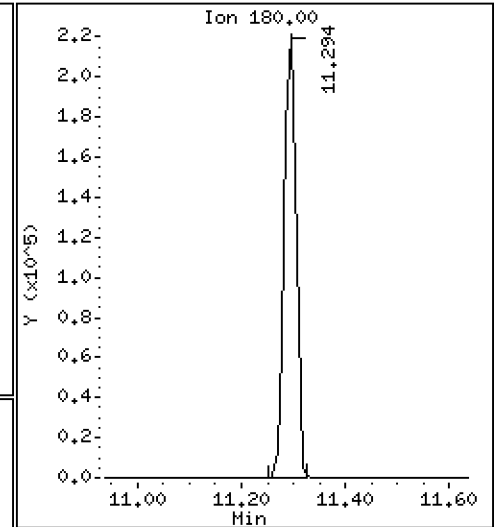
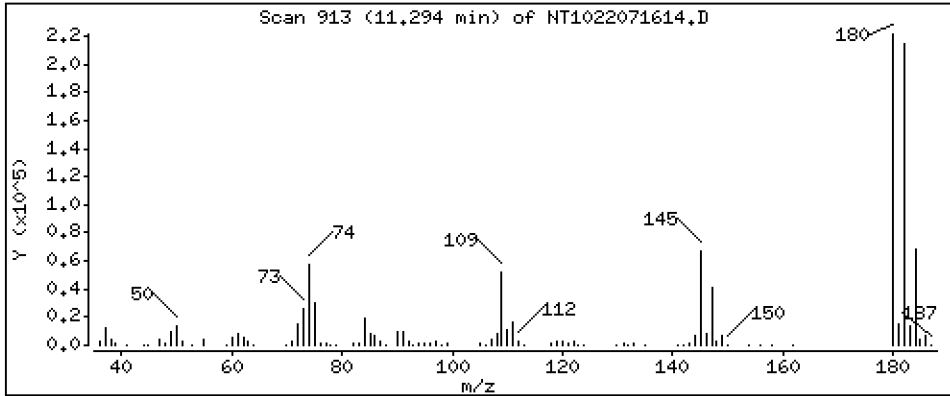
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 5,021 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

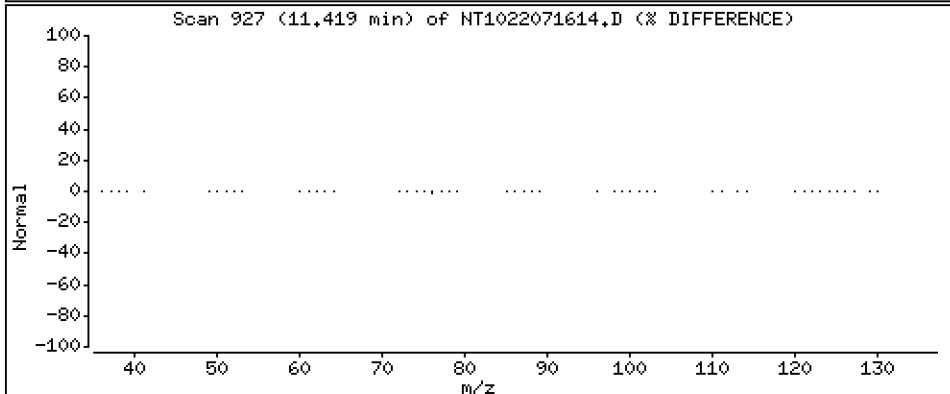
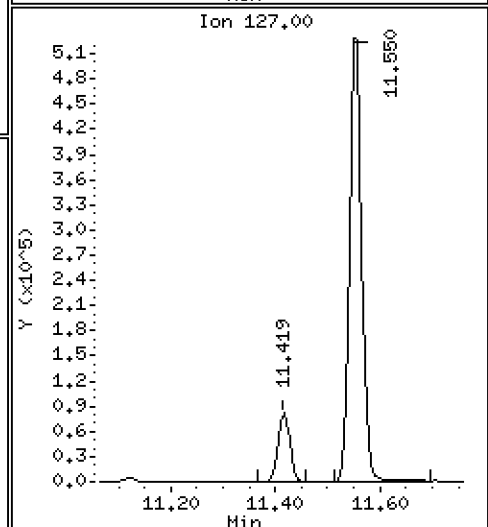
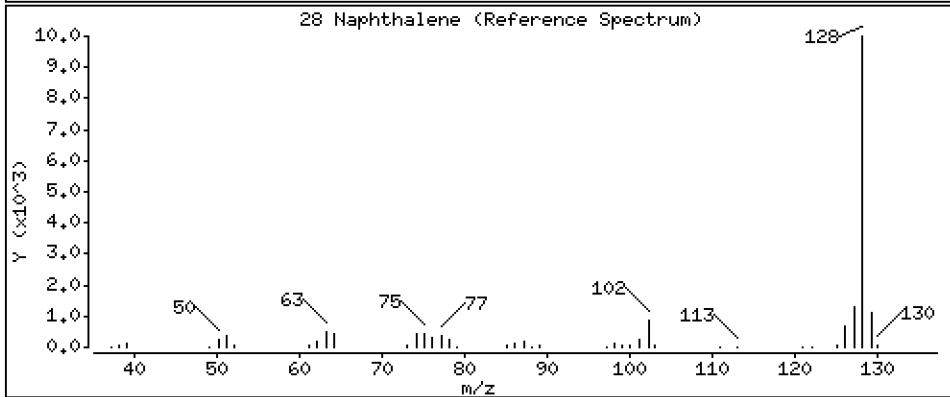
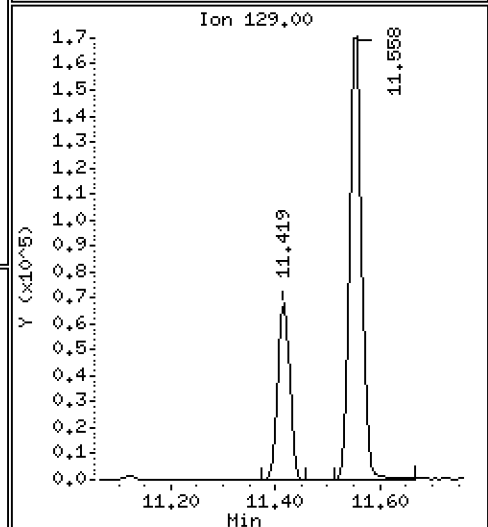
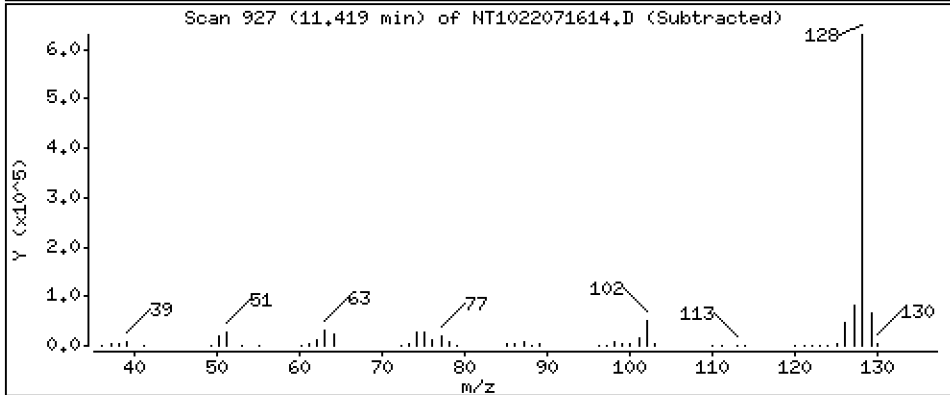
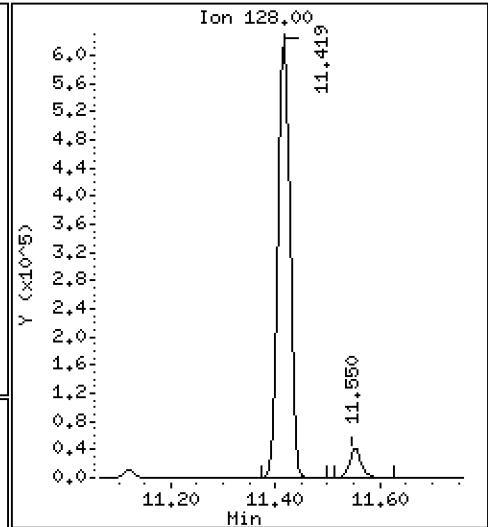
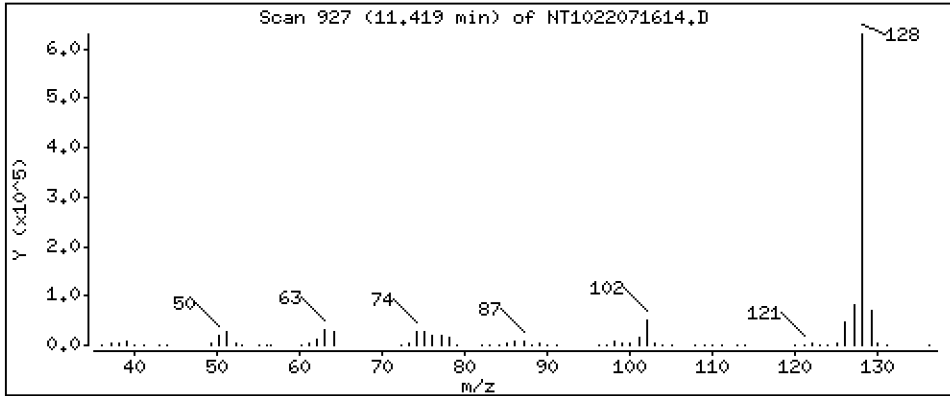
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 5,330 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

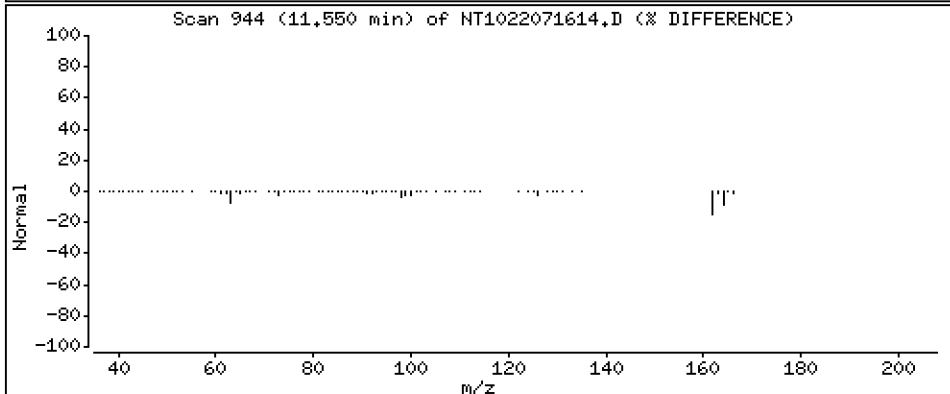
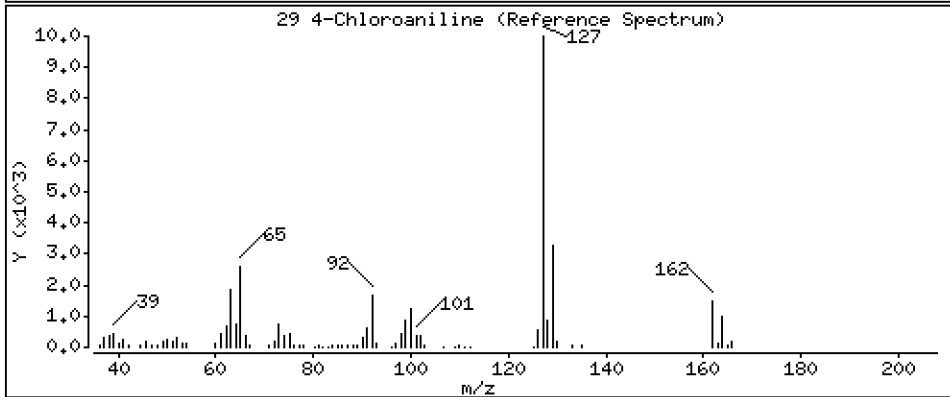
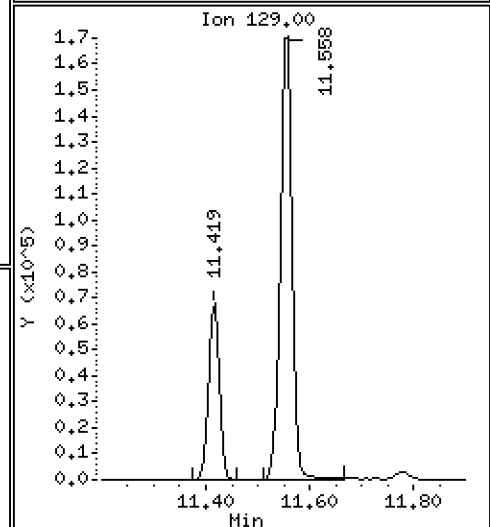
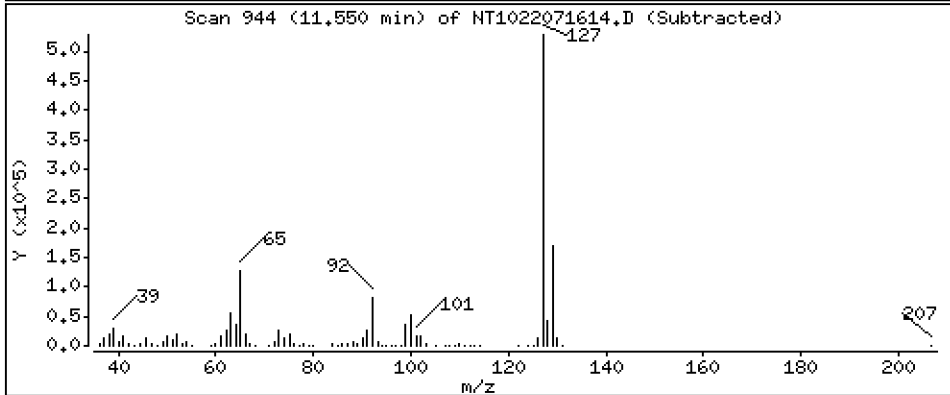
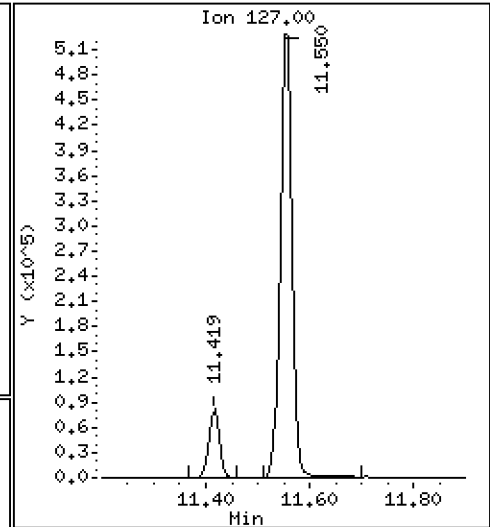
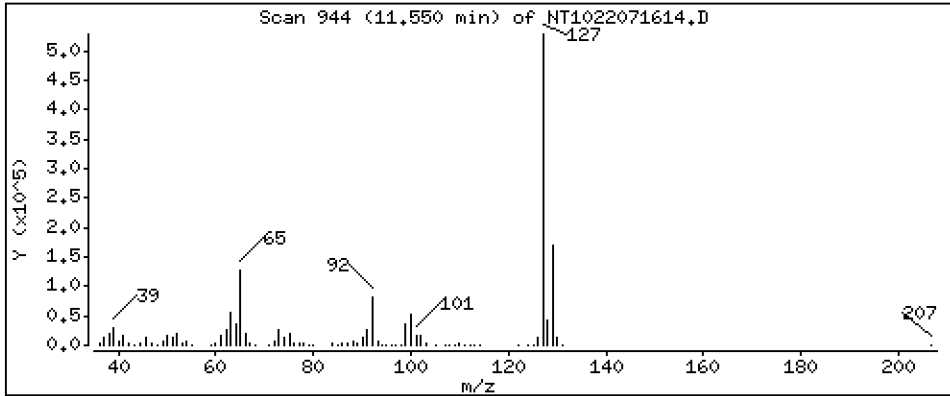
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 10,89 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

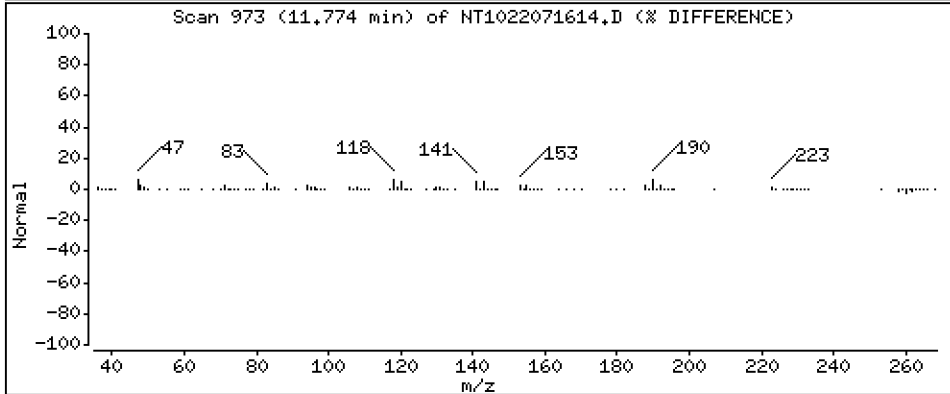
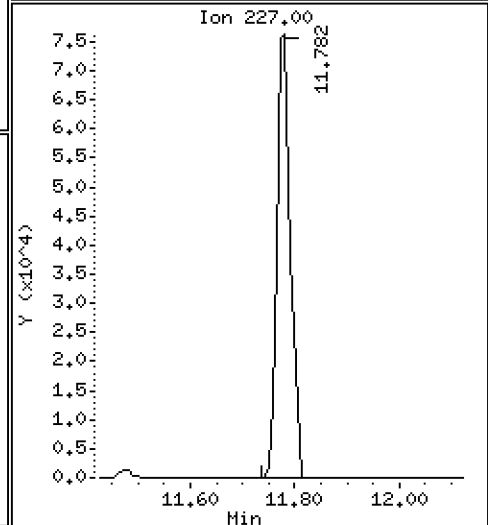
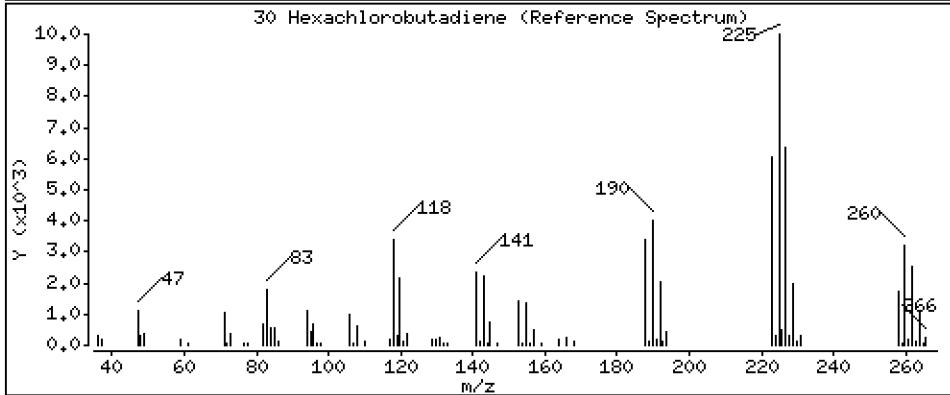
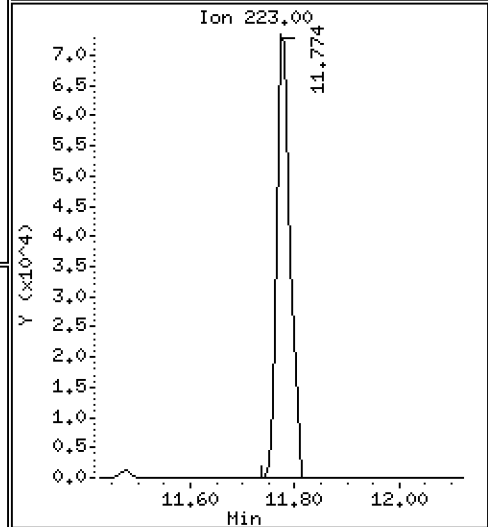
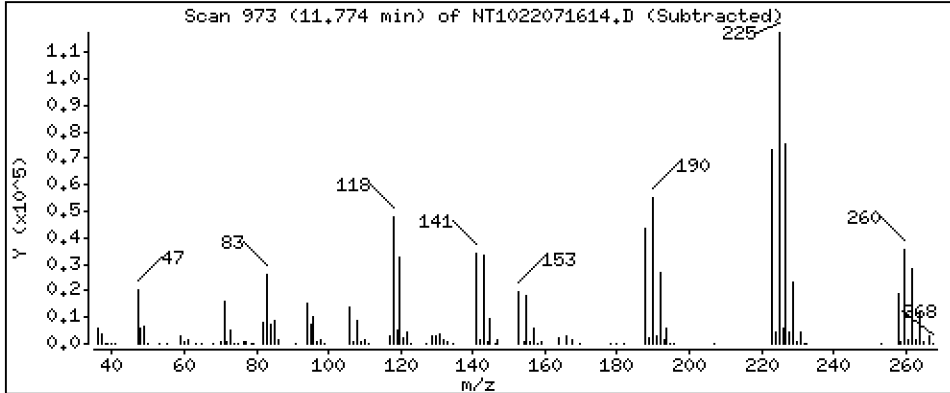
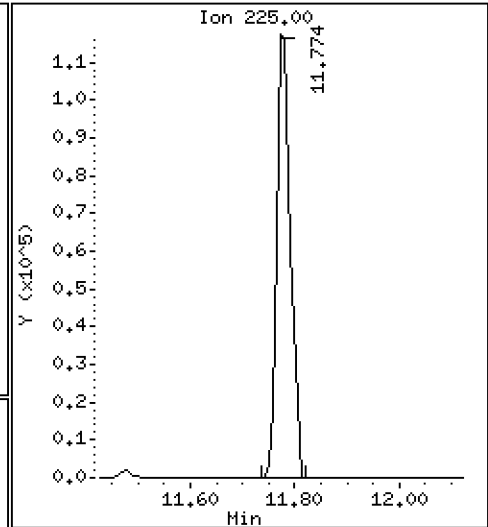
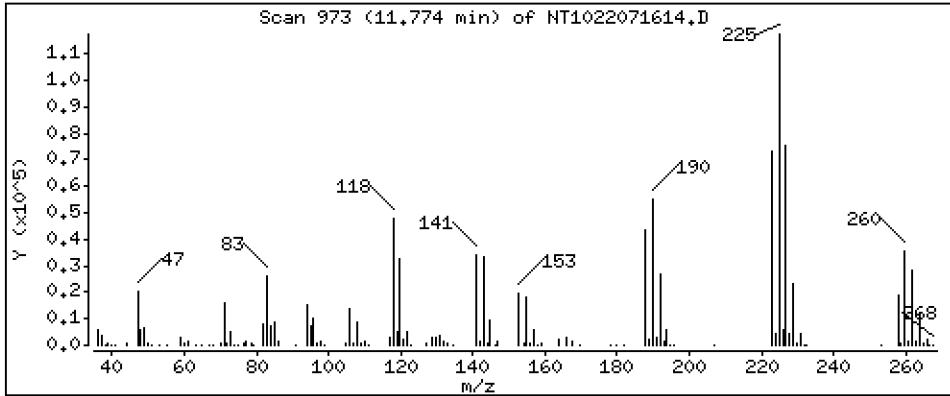
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 7,275 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

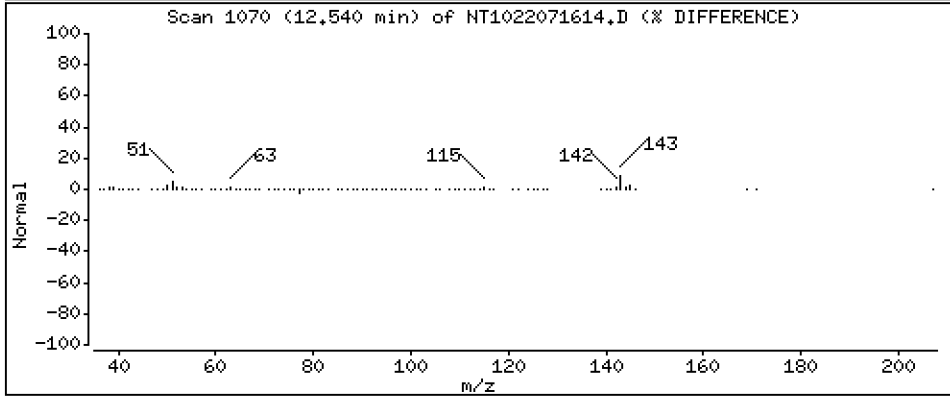
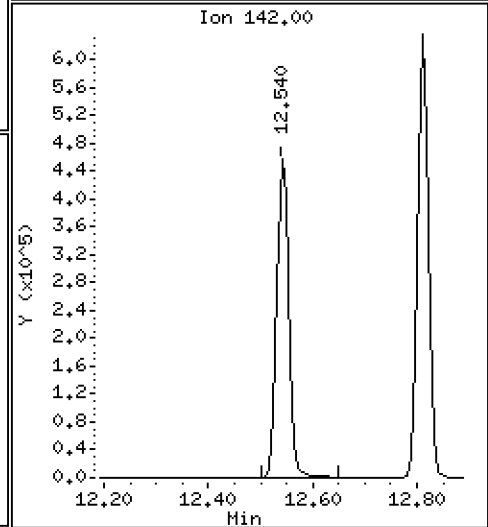
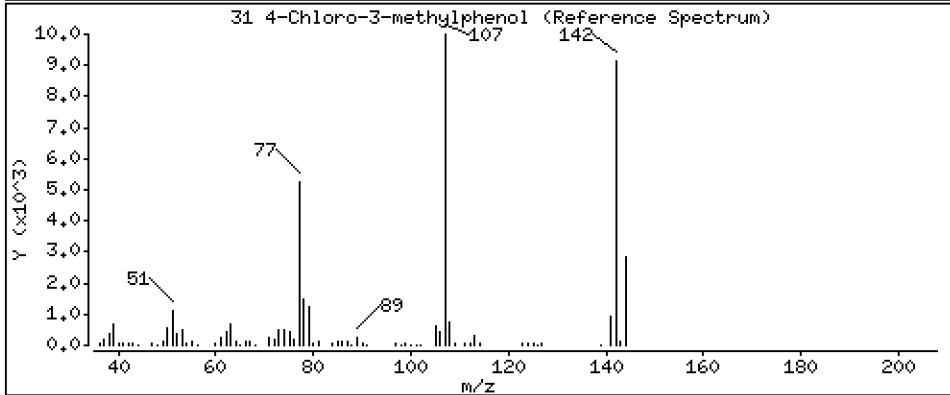
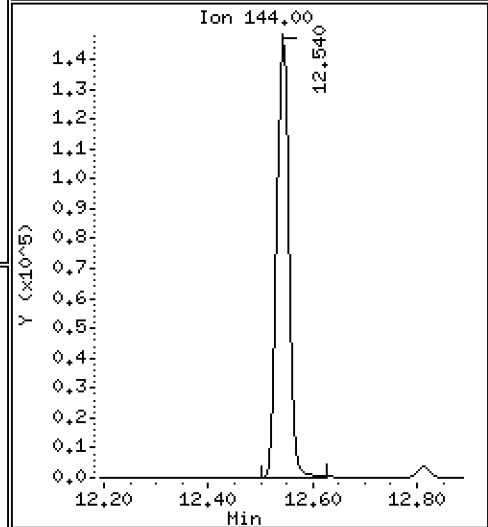
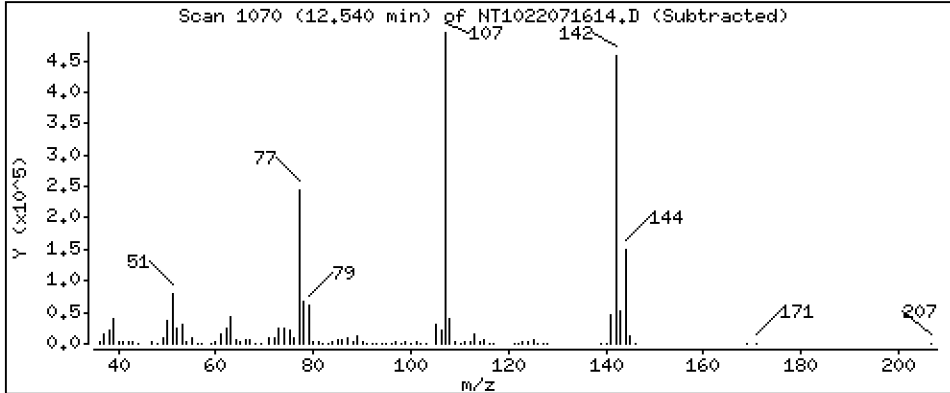
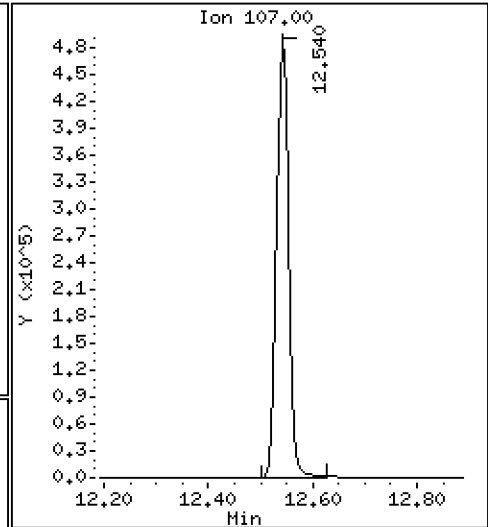
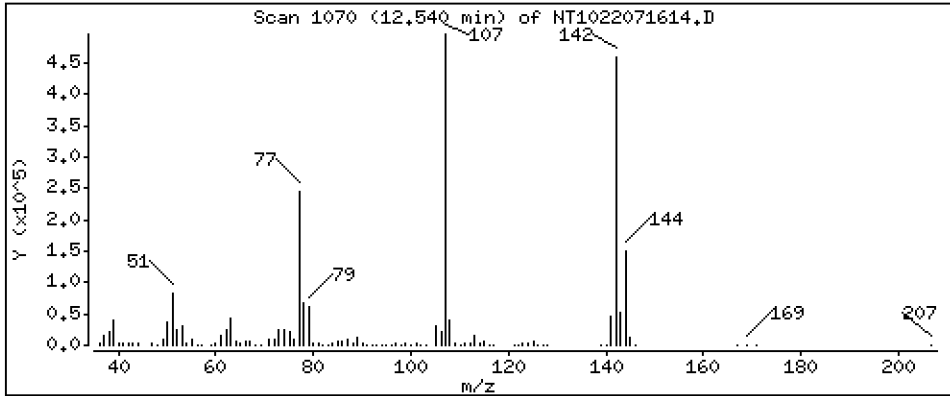
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 10,65 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

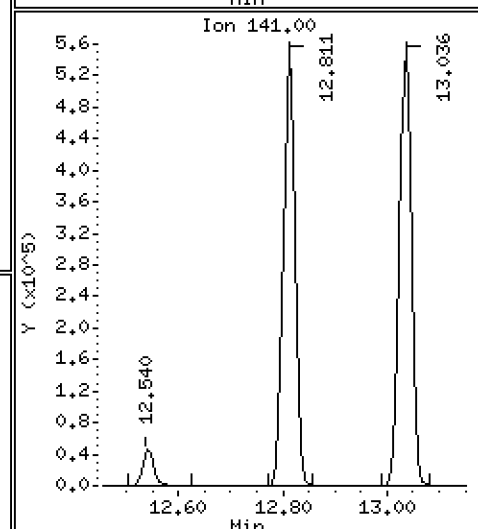
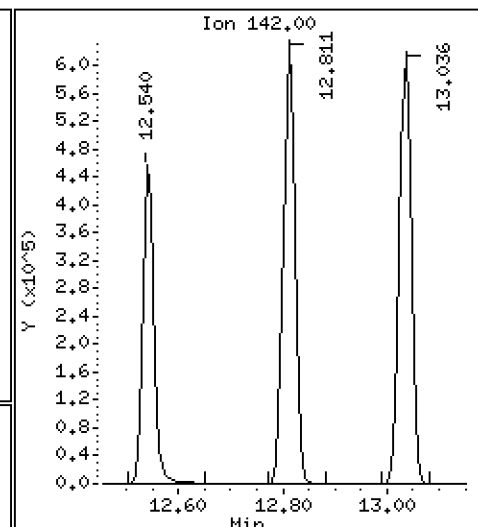
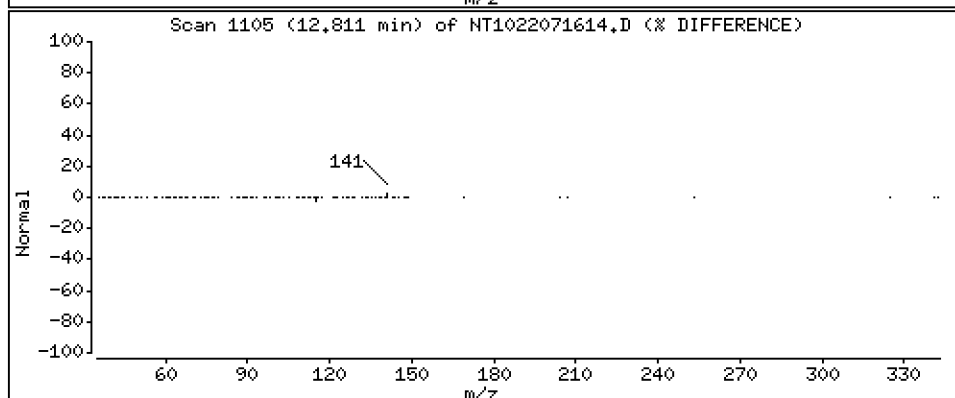
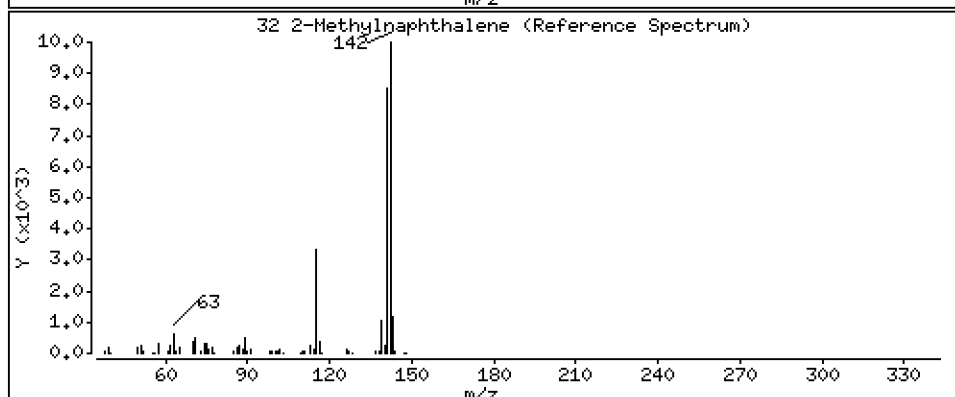
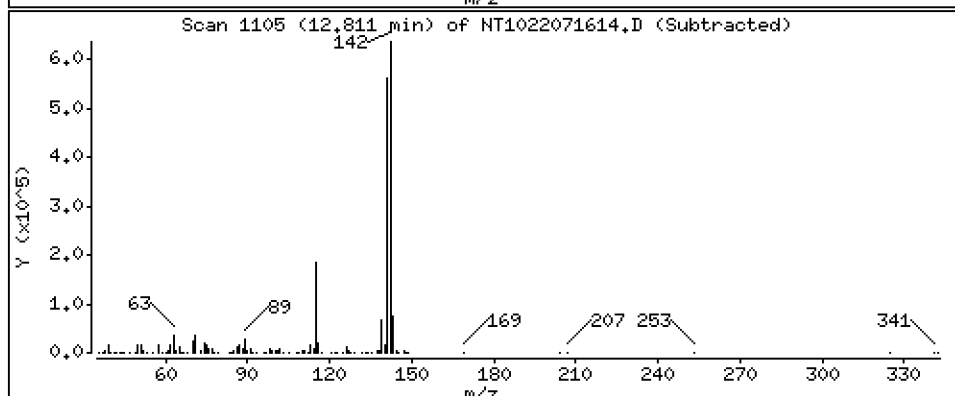
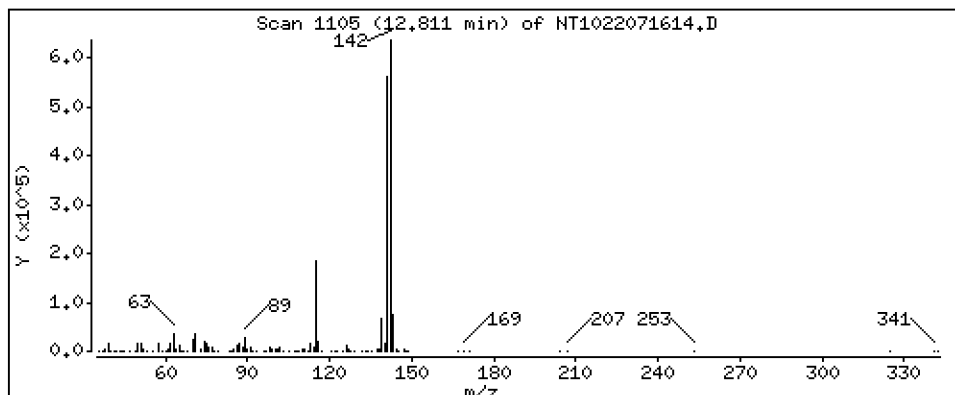
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 5,504 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

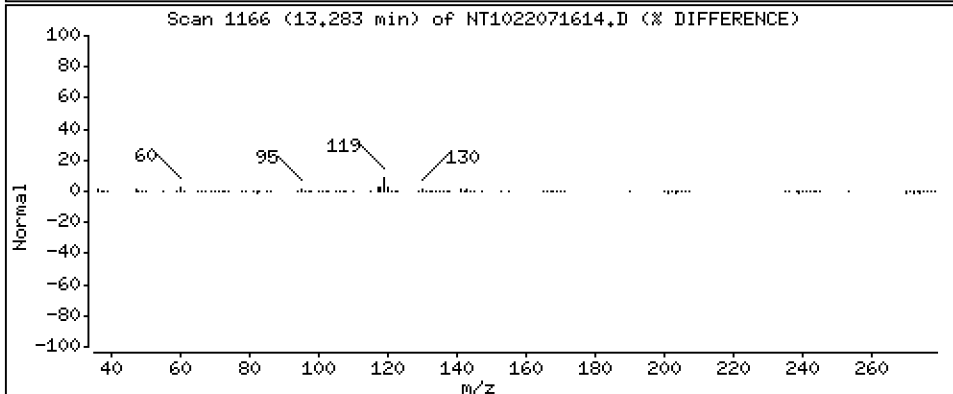
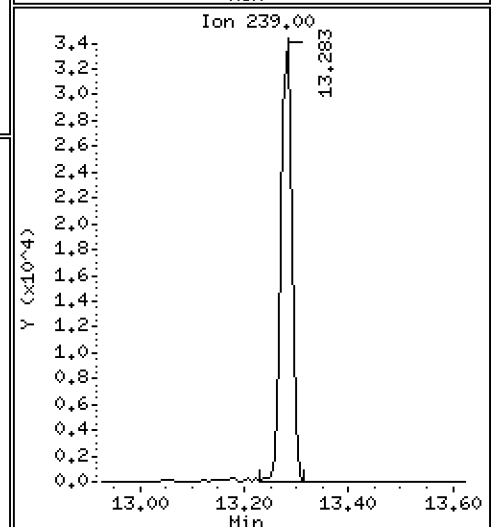
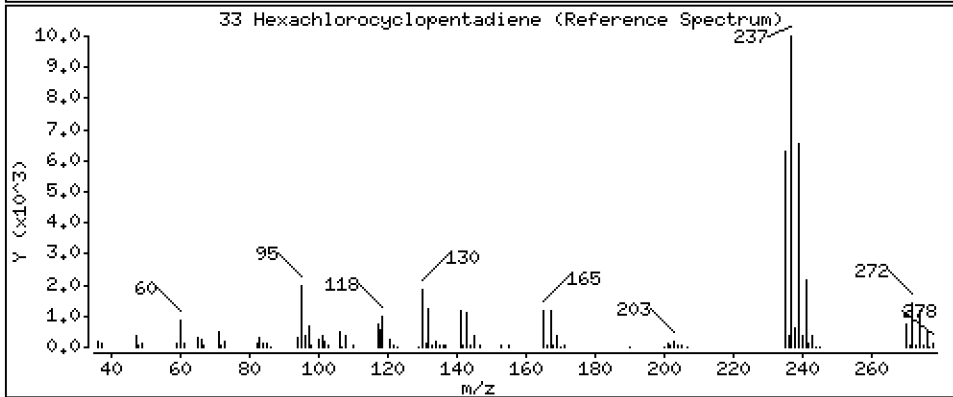
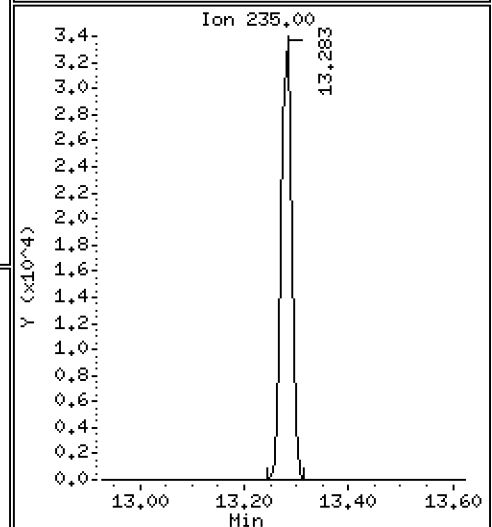
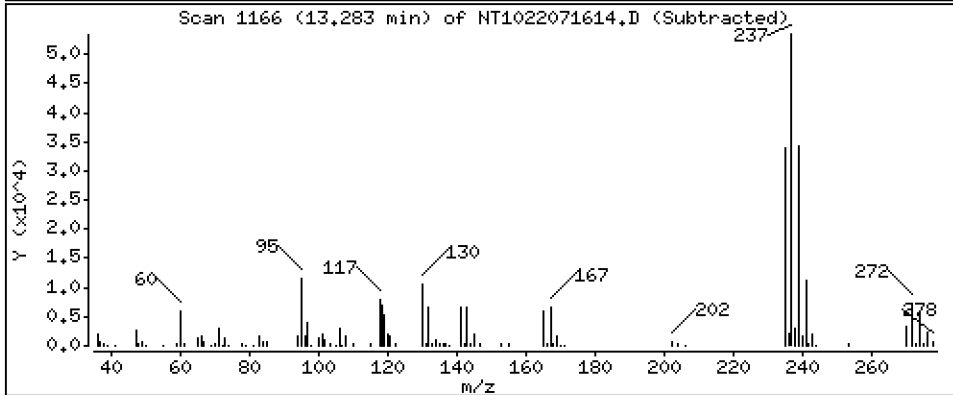
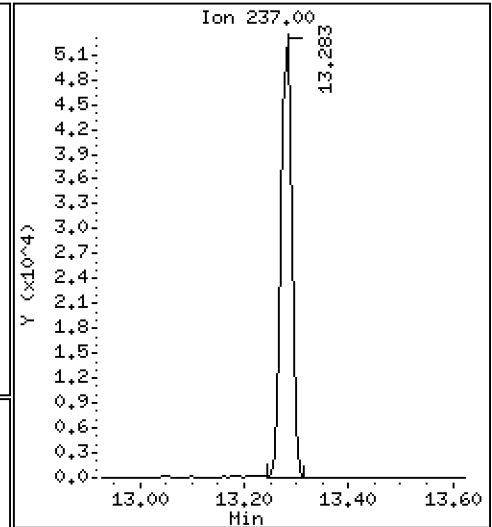
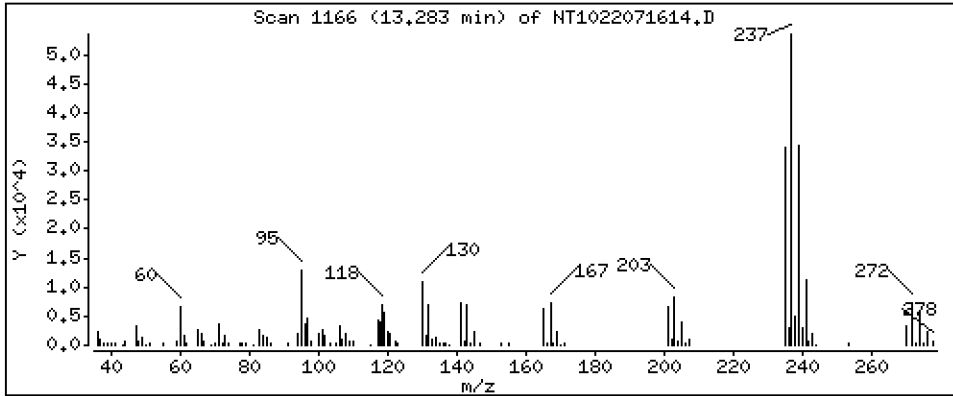
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 3,110 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

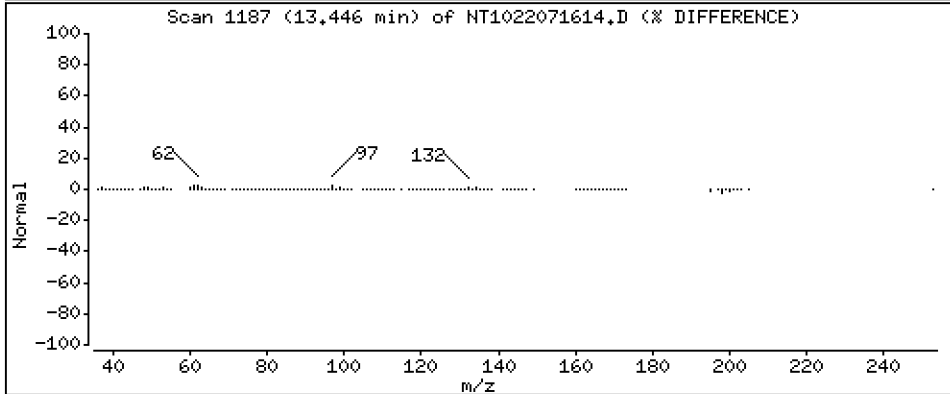
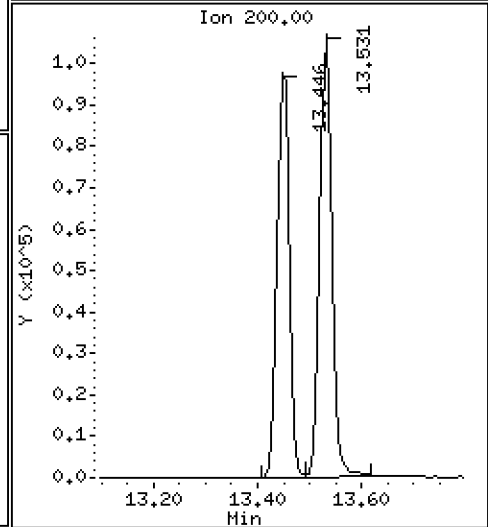
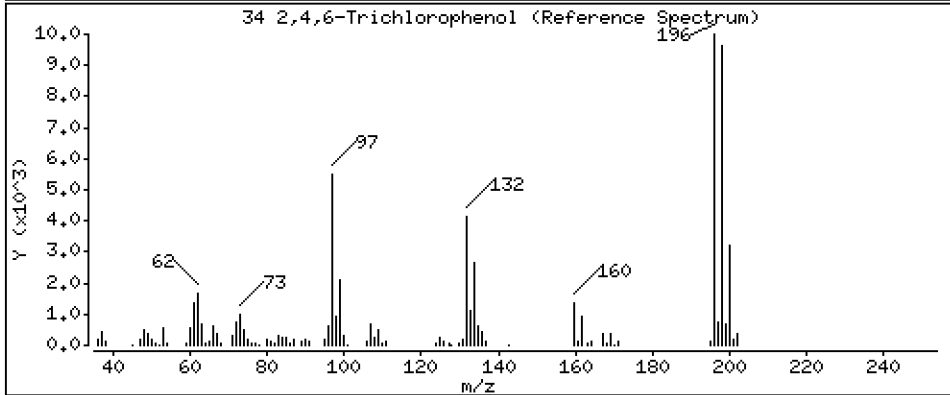
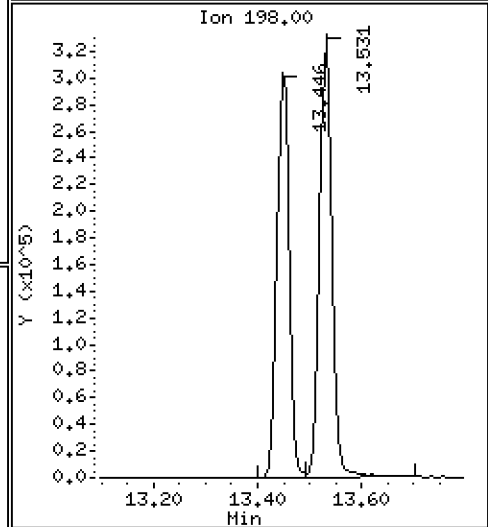
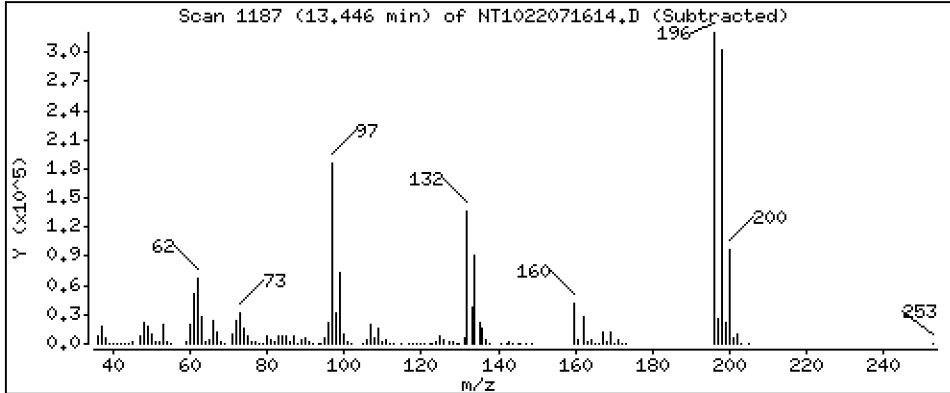
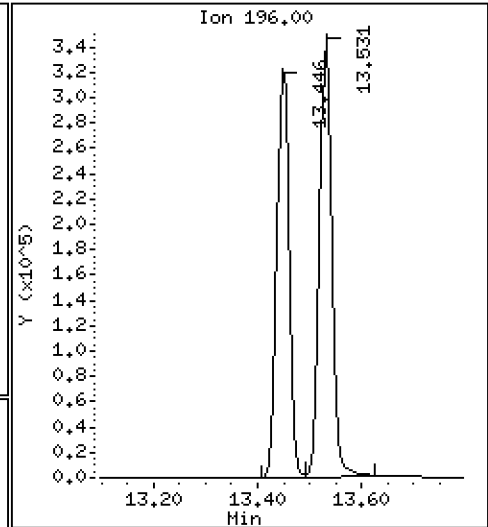
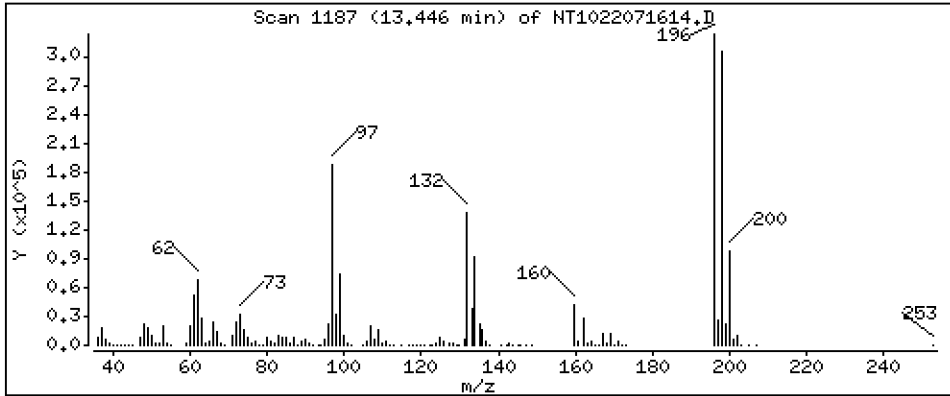
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 11,26 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

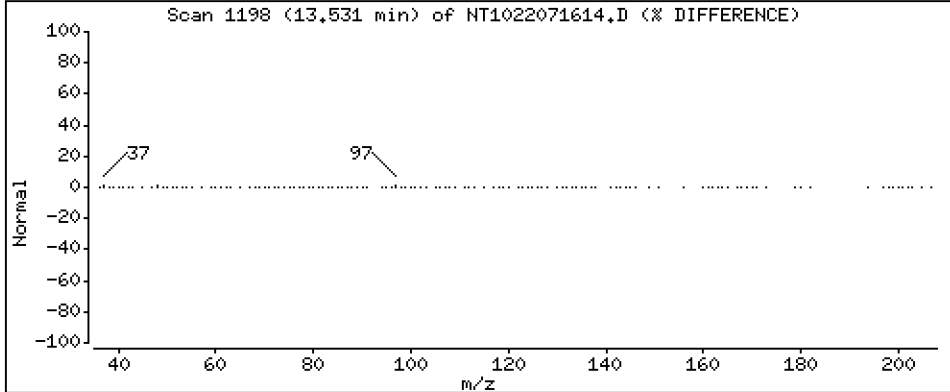
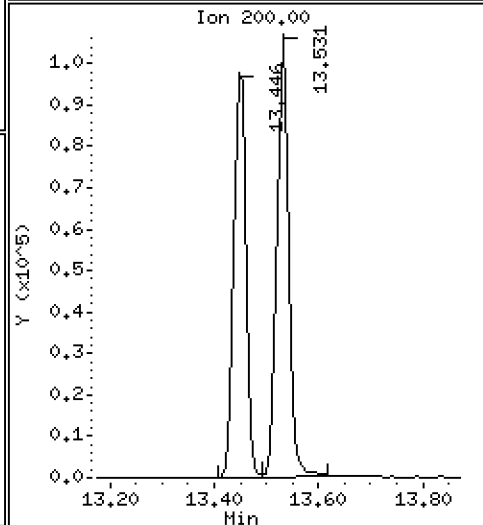
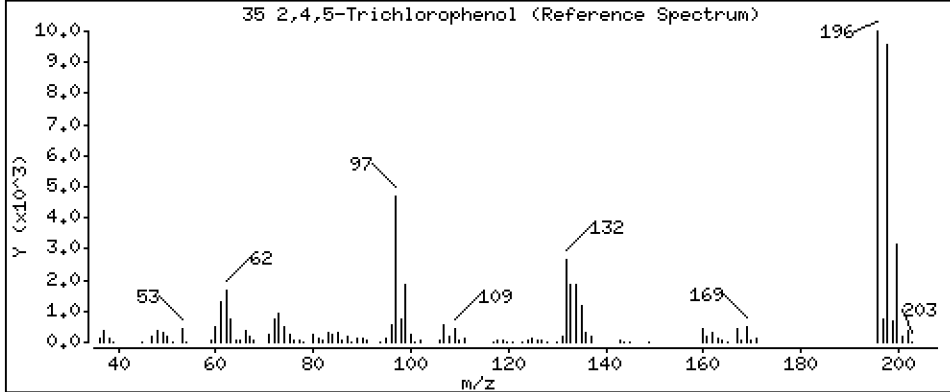
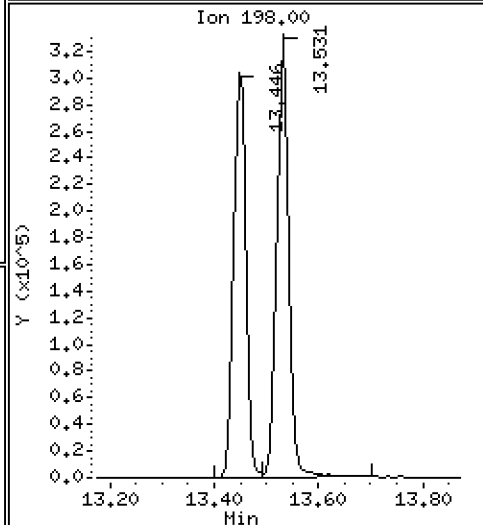
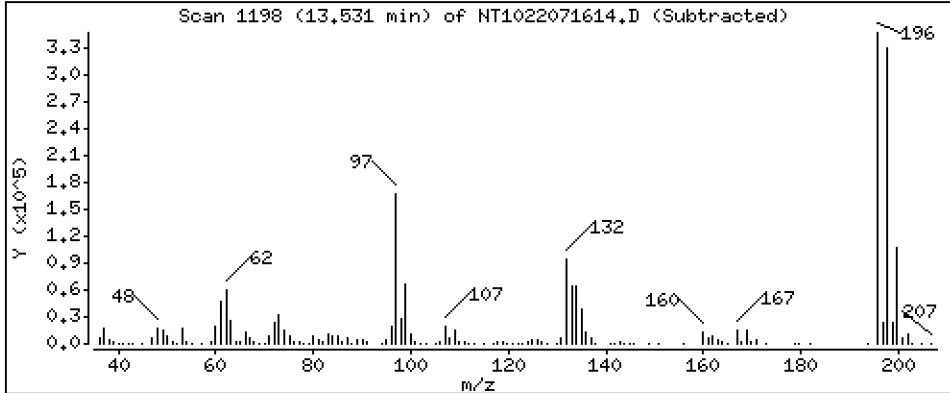
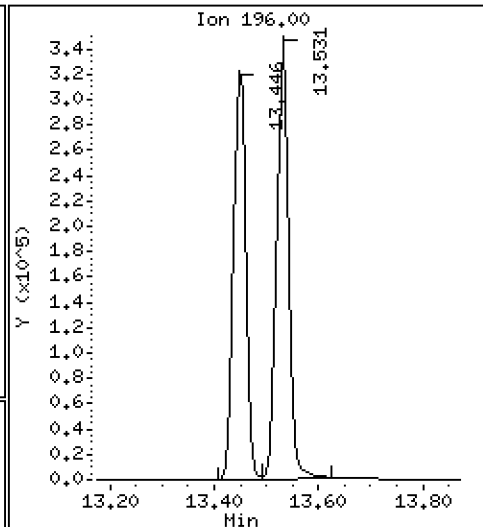
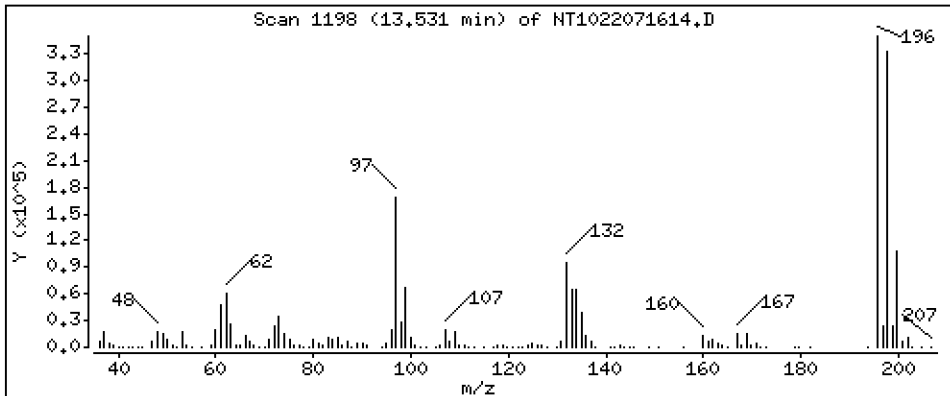
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 10,00 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

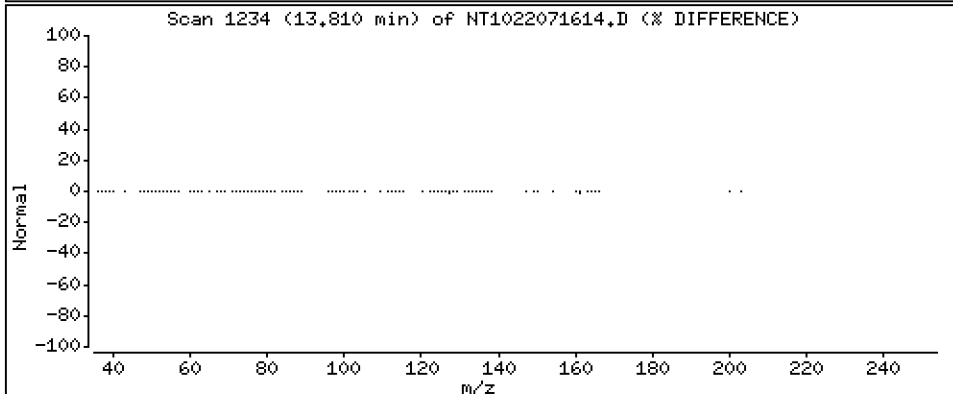
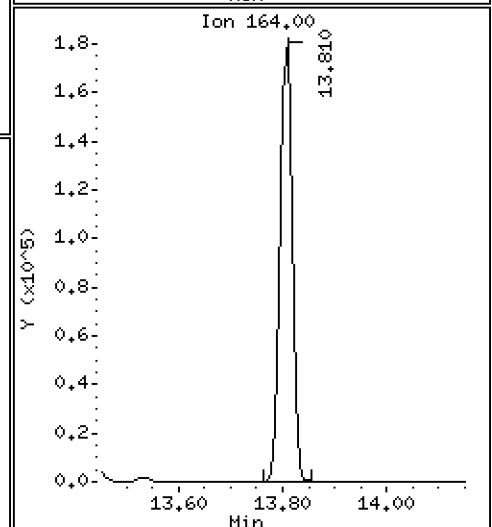
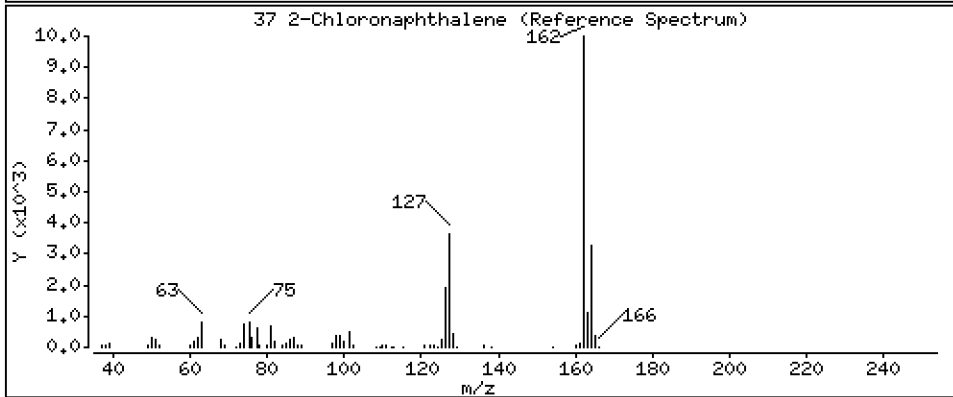
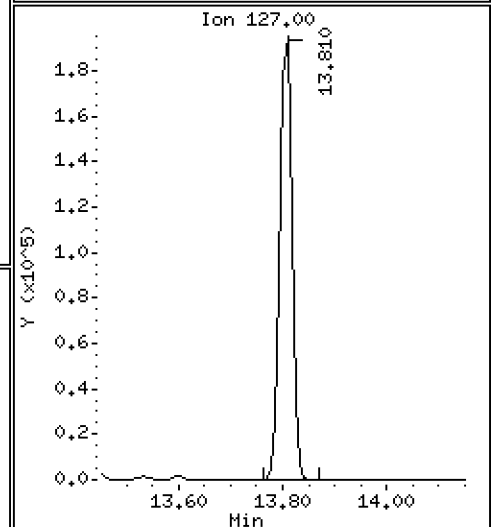
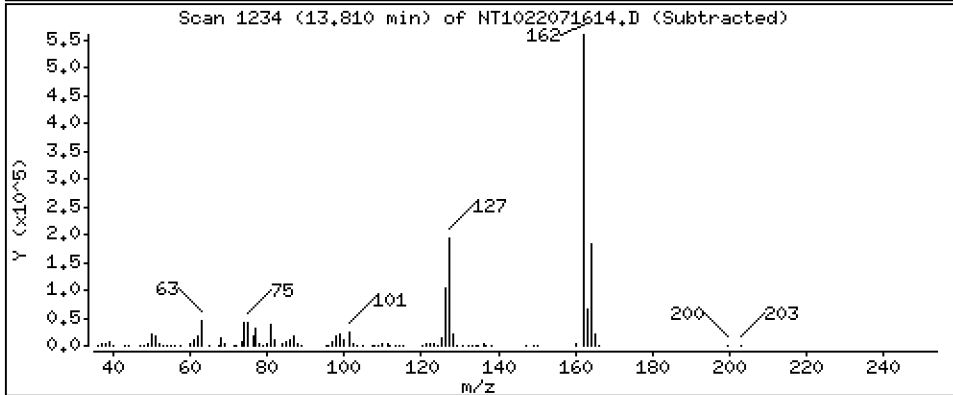
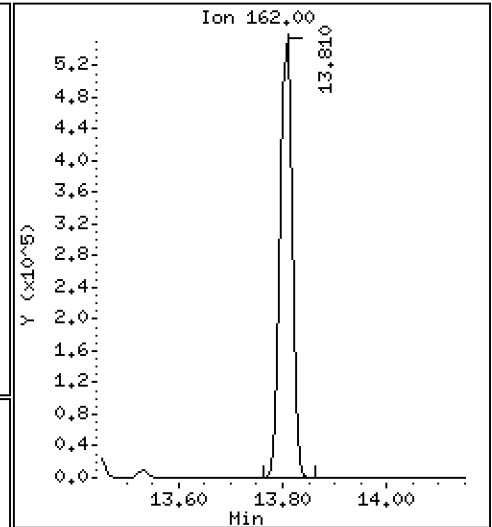
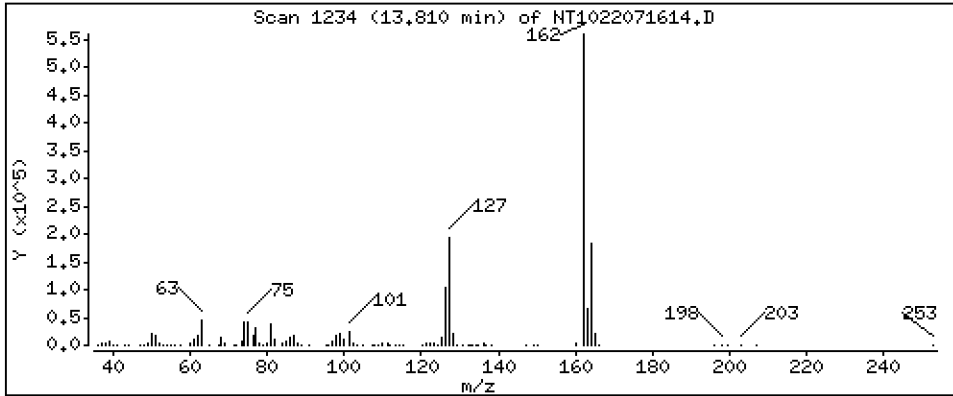
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 5,368 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

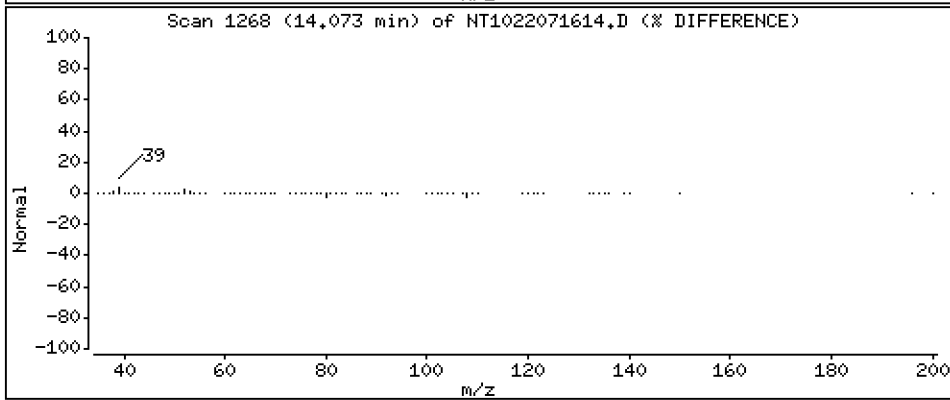
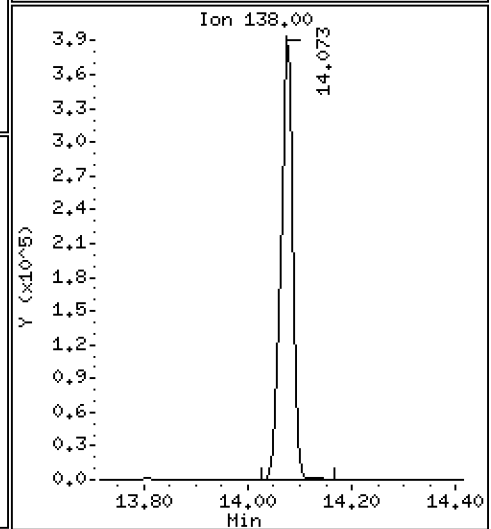
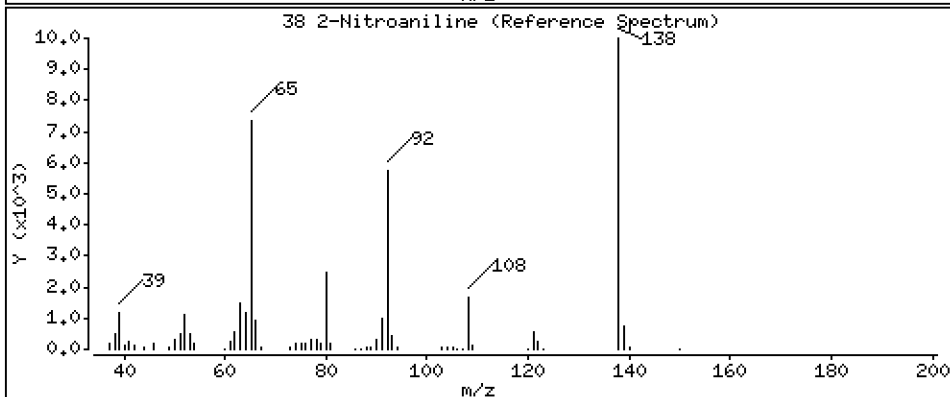
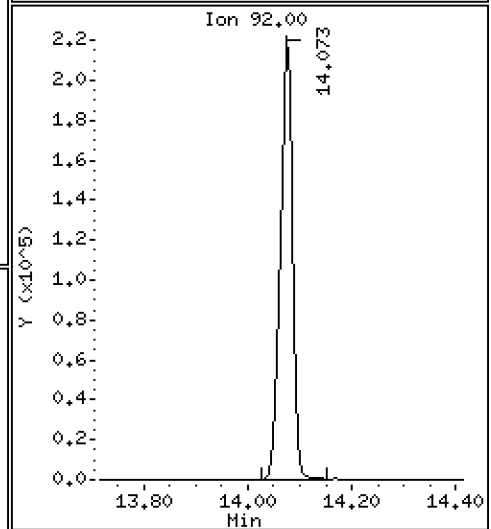
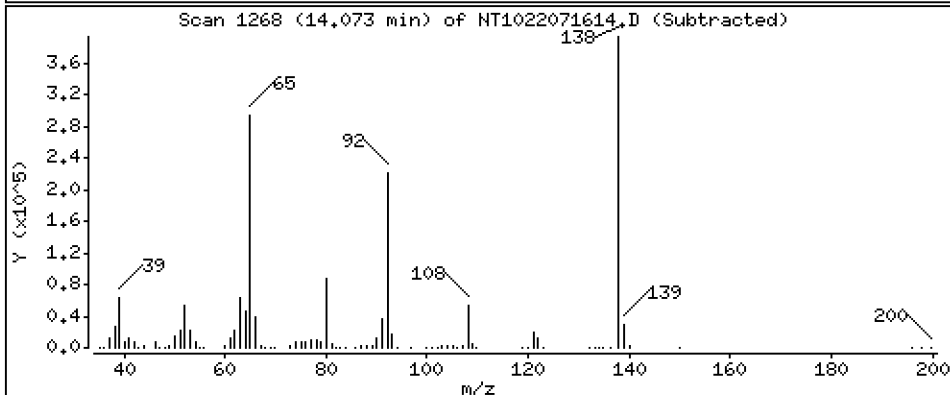
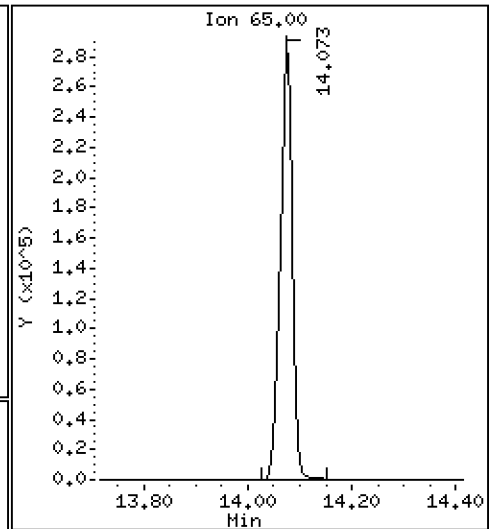
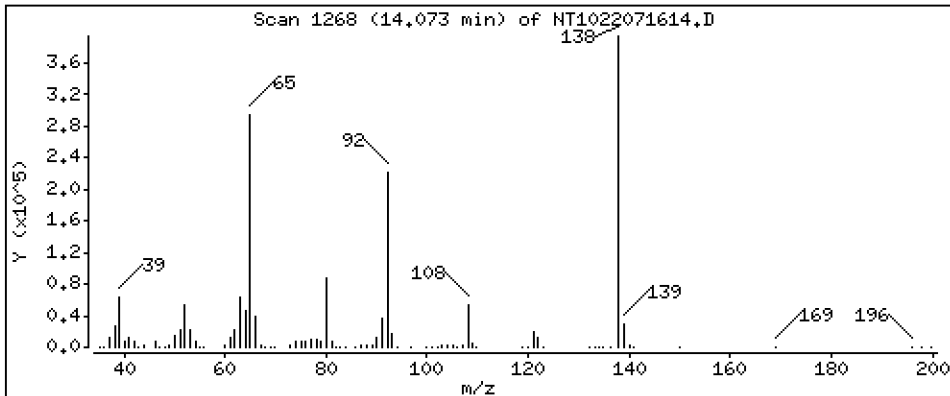
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 10,71 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

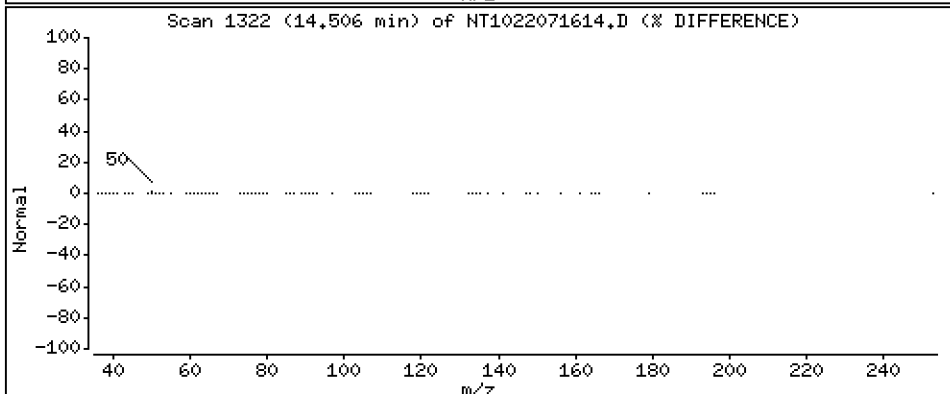
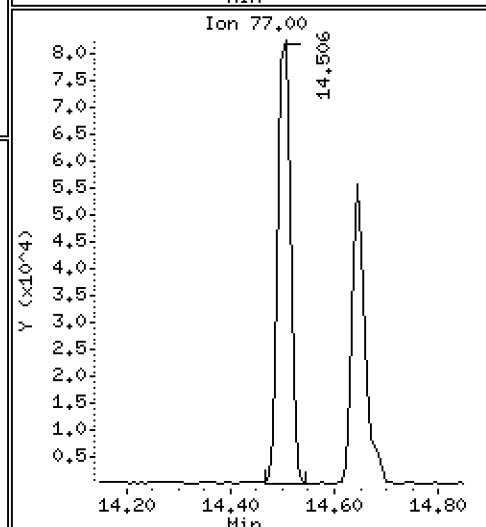
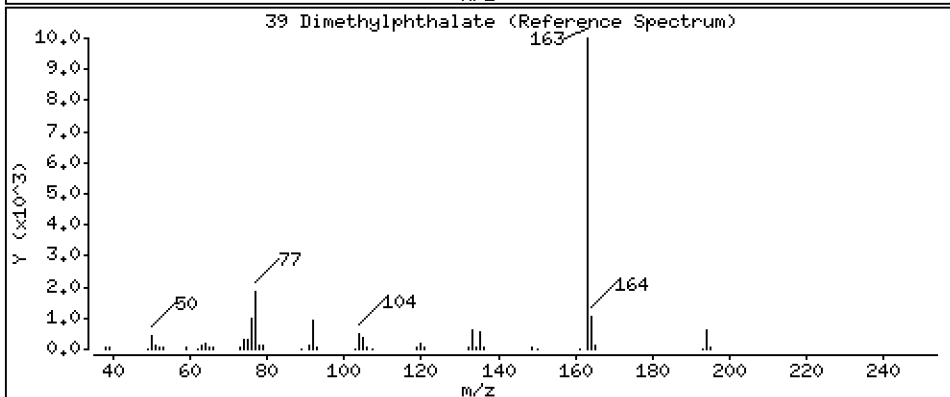
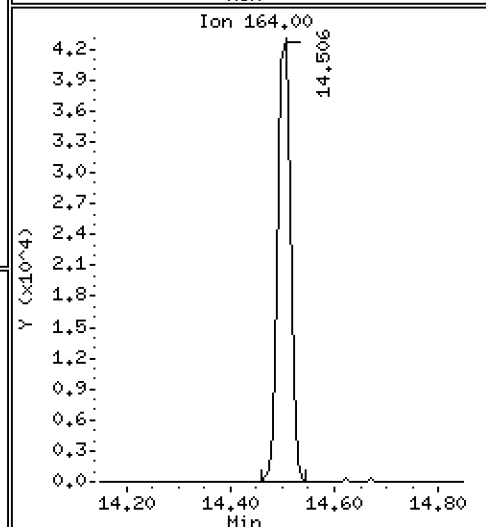
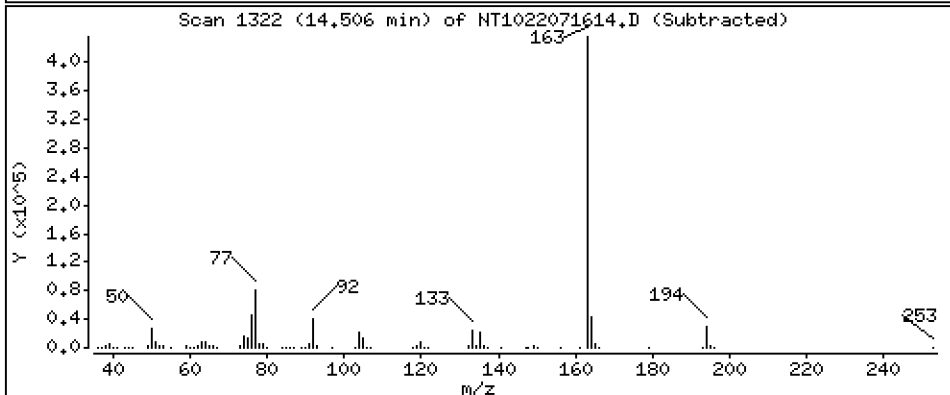
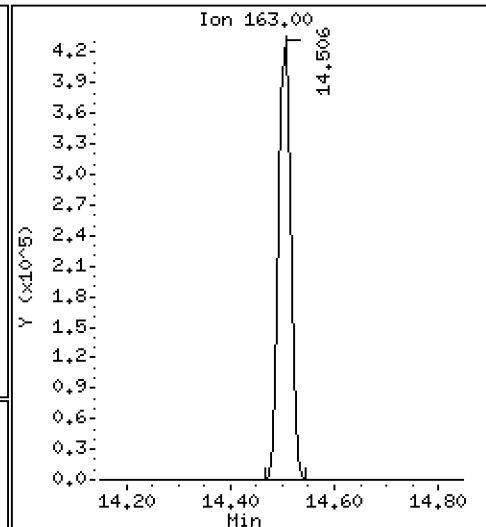
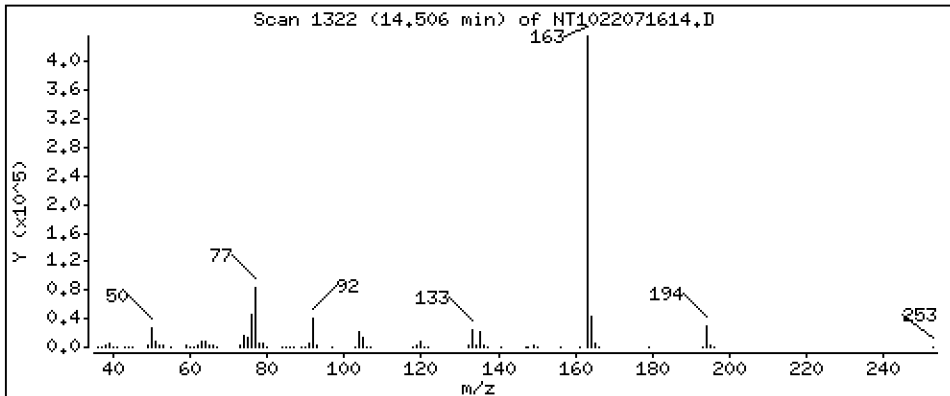
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,788 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

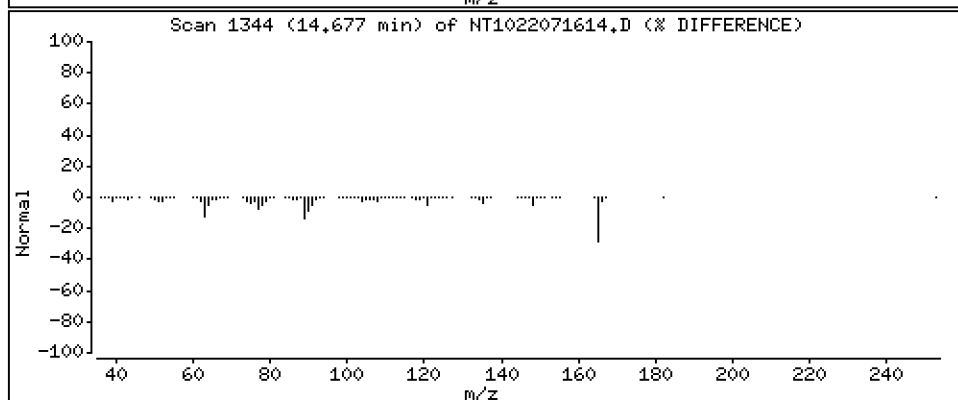
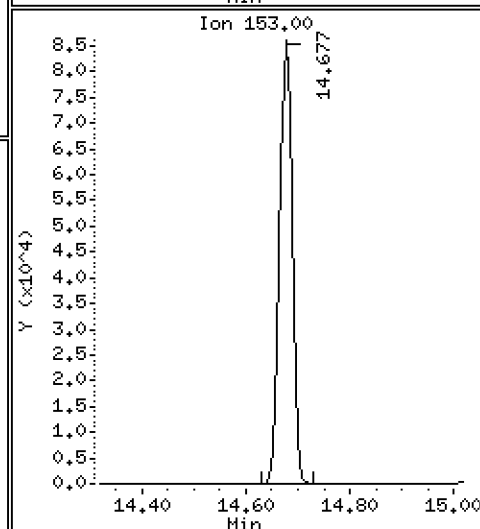
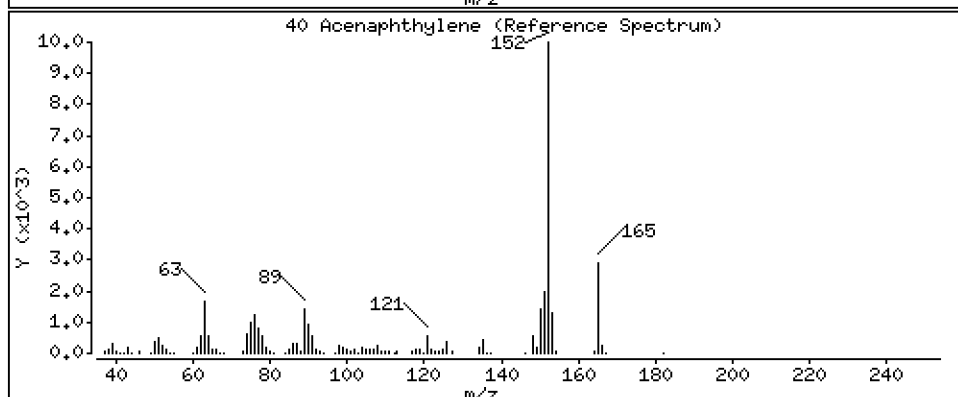
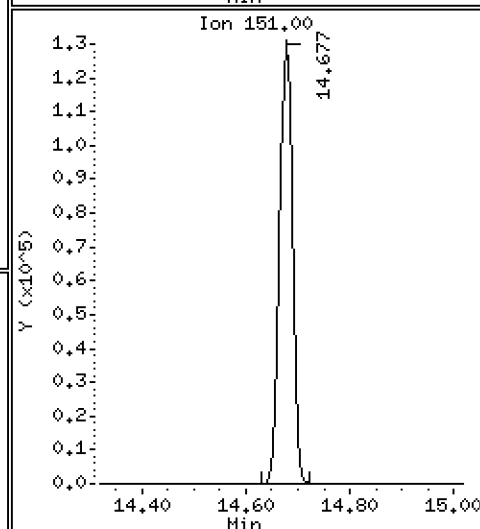
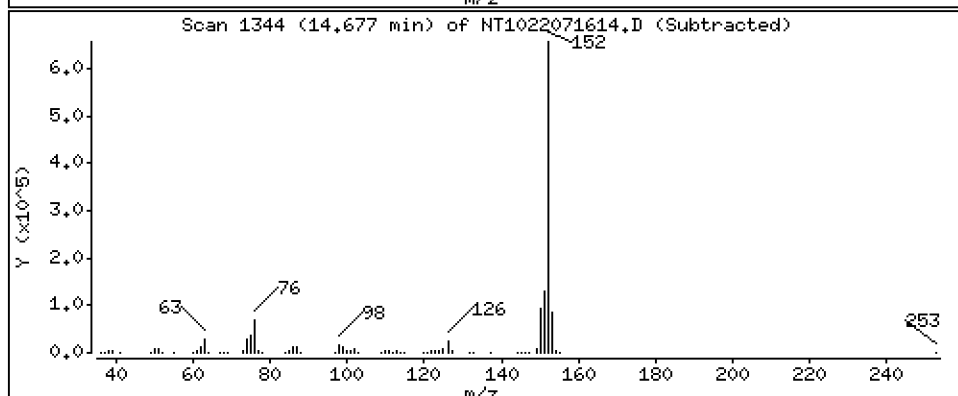
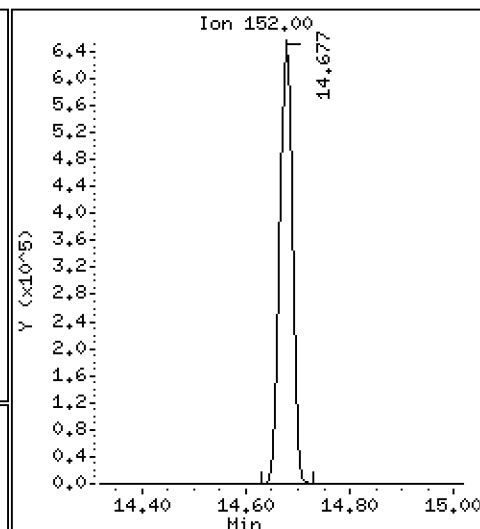
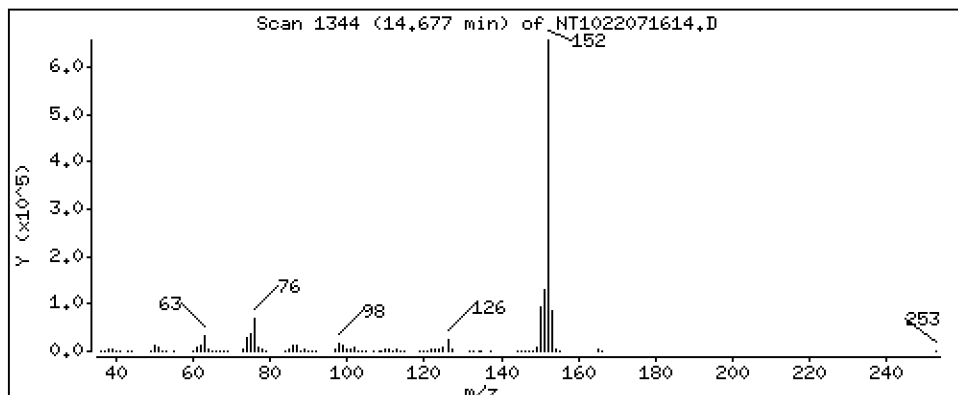
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,547 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

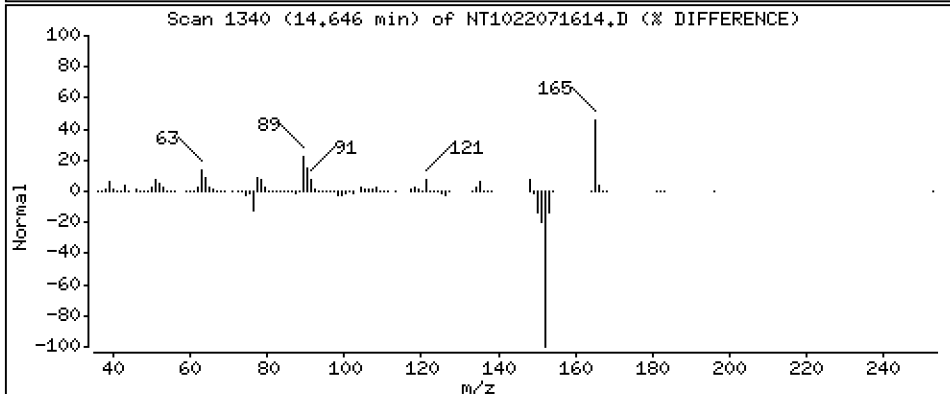
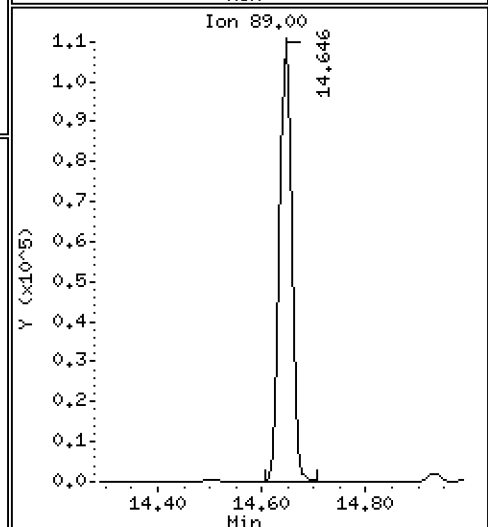
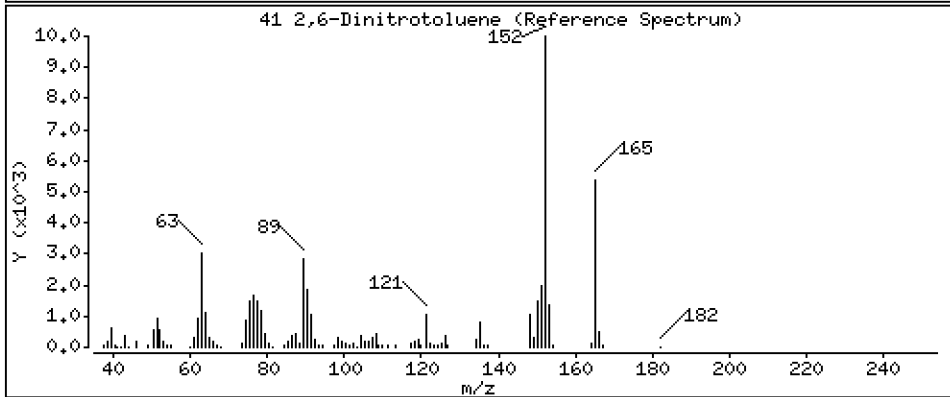
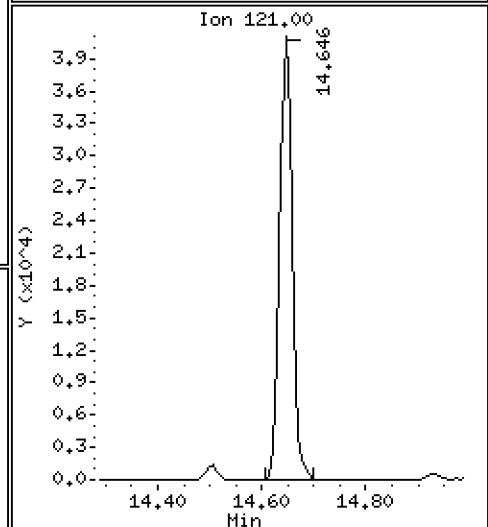
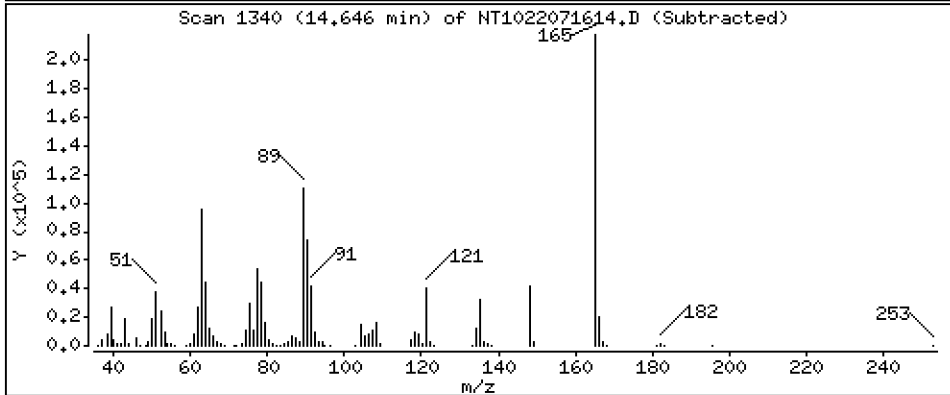
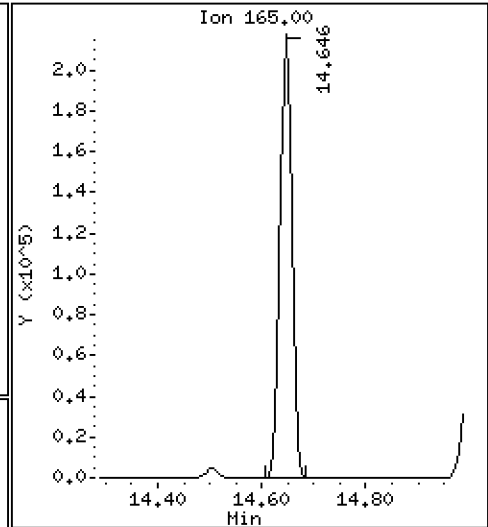
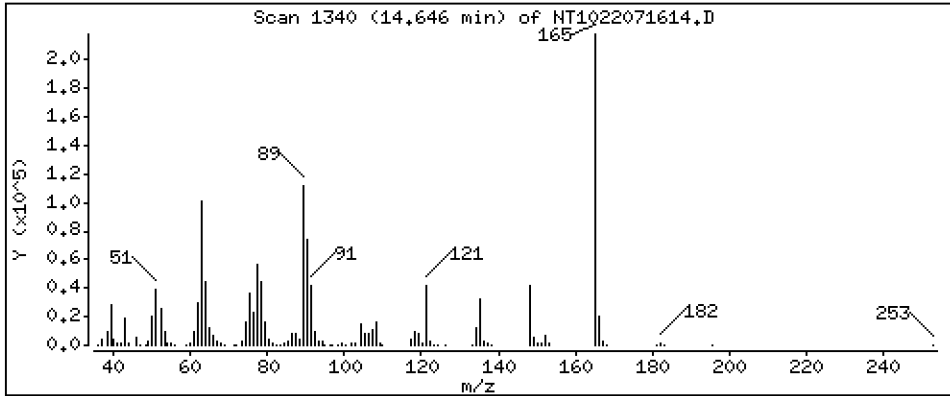
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 10.08 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

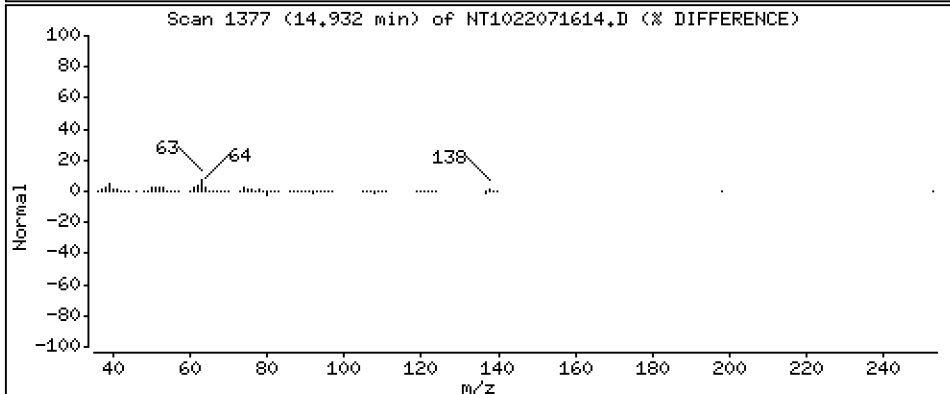
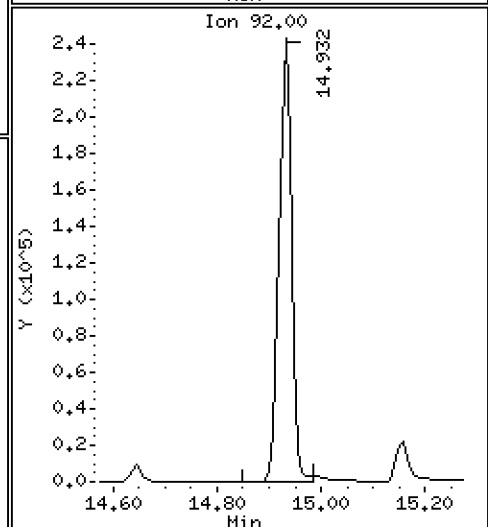
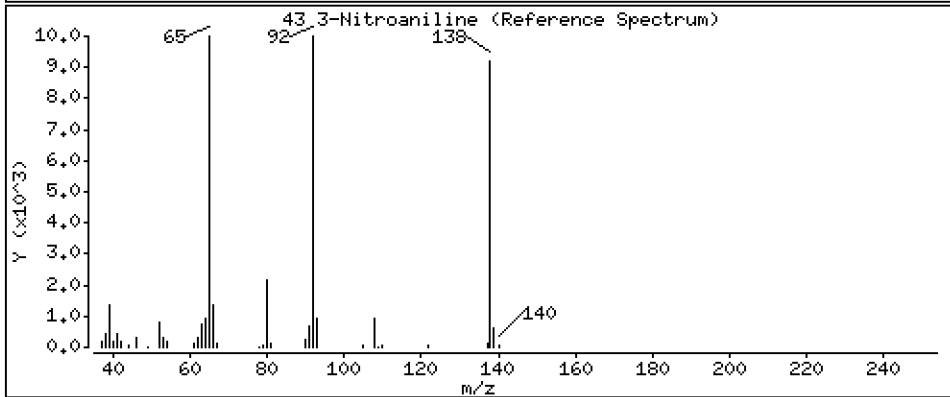
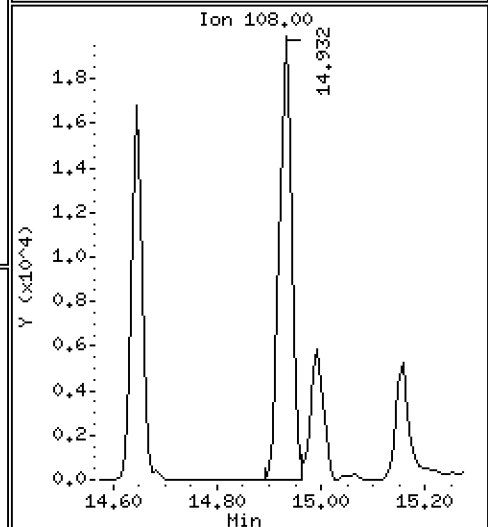
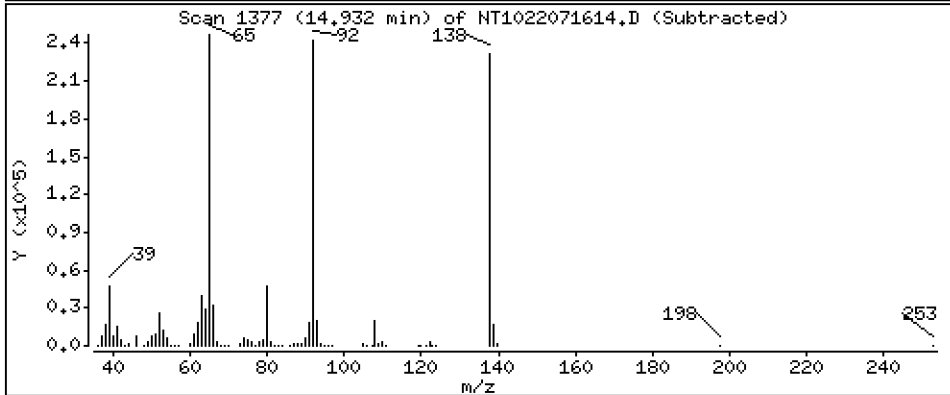
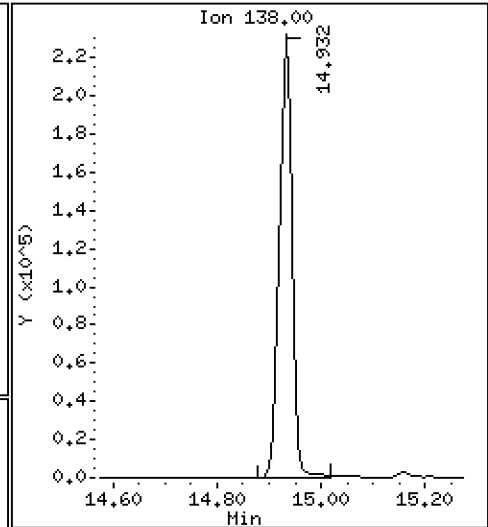
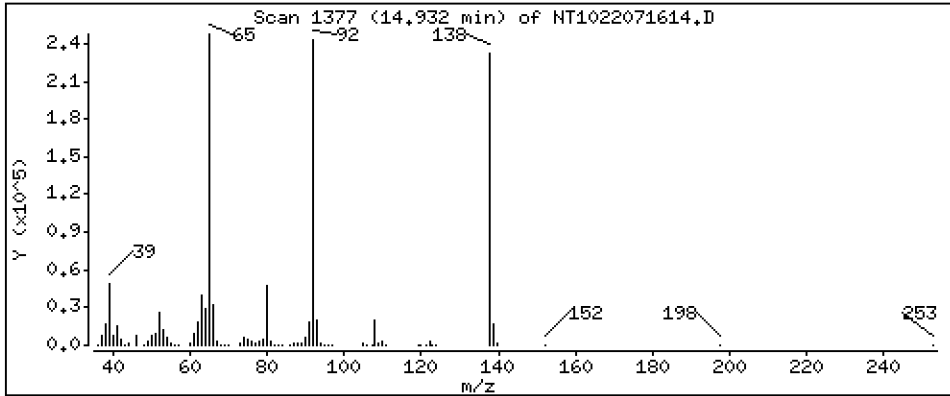
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 11,26 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

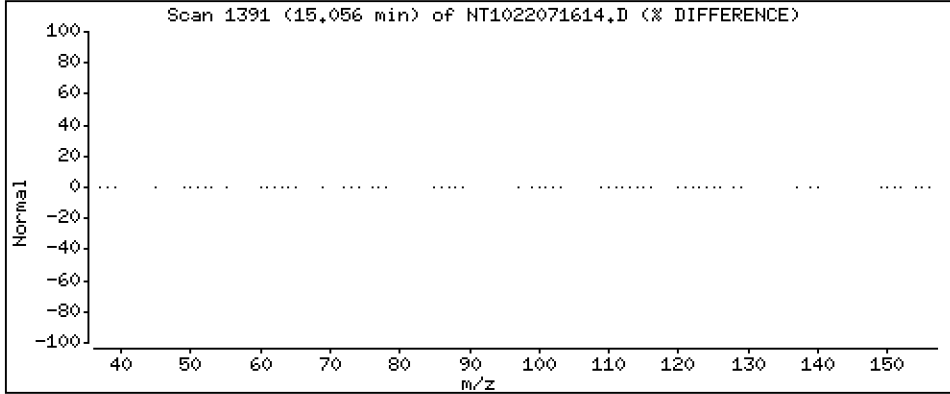
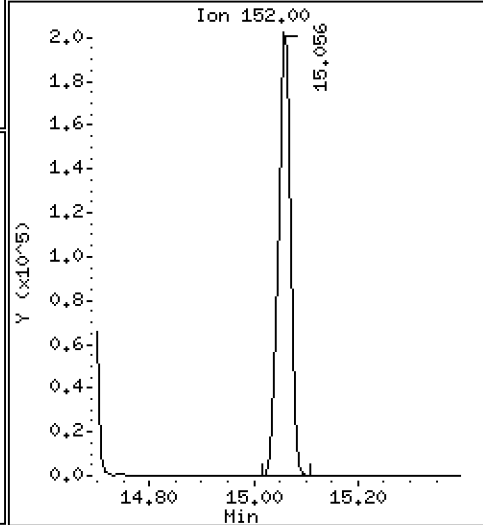
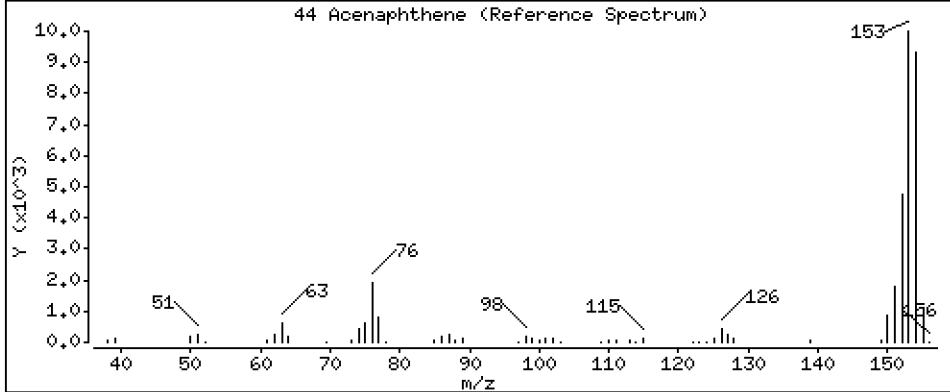
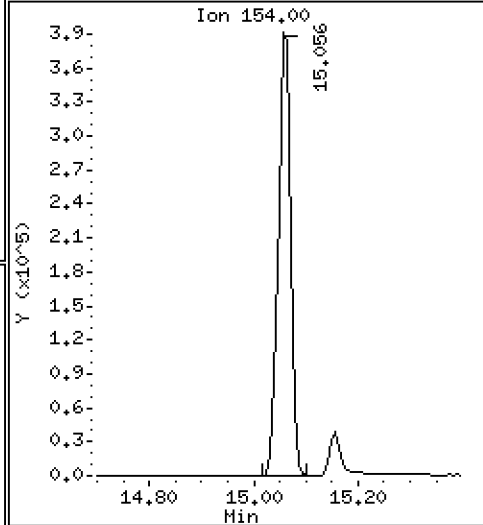
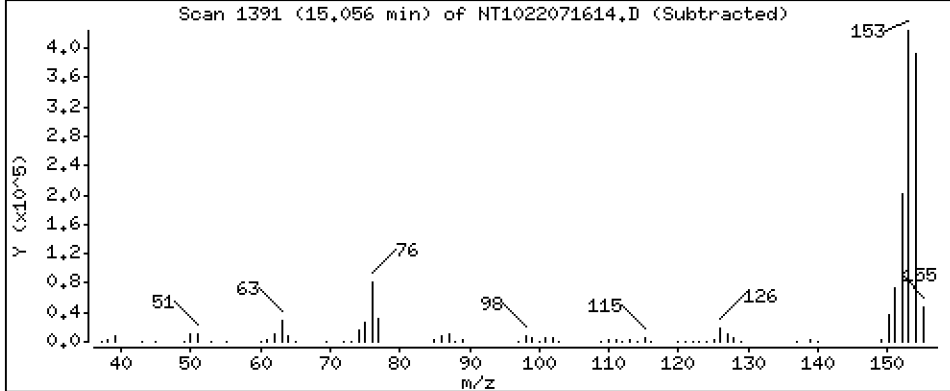
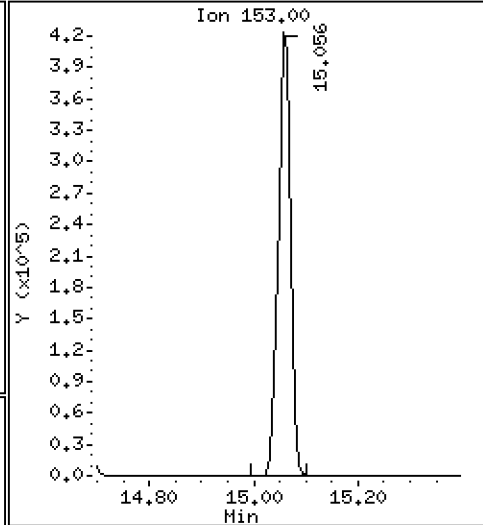
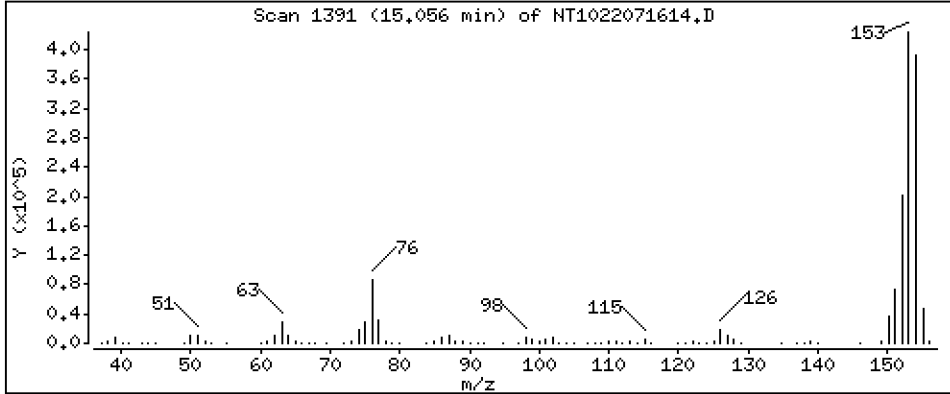
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 7,000 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

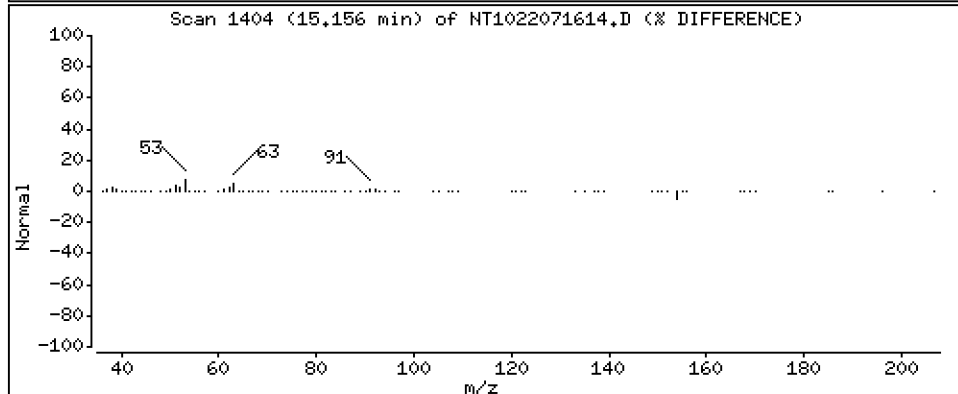
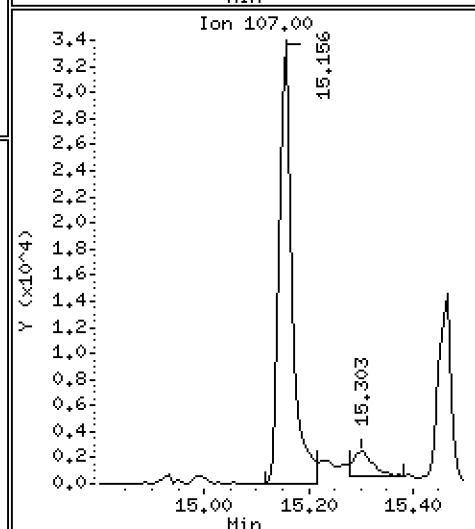
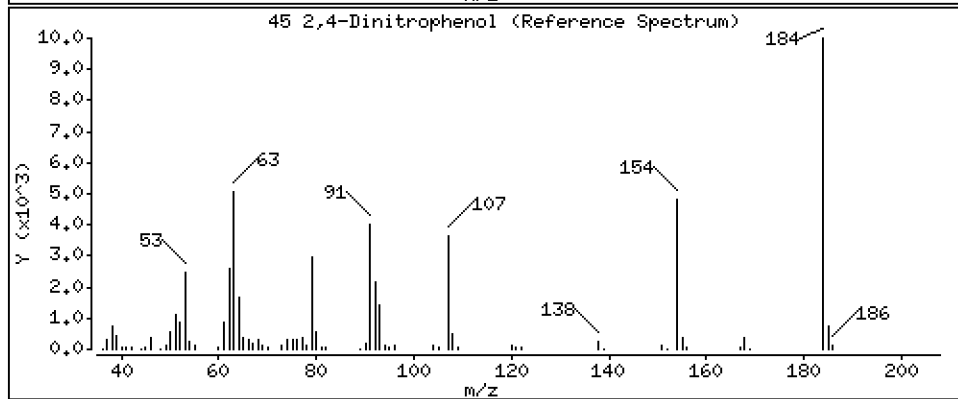
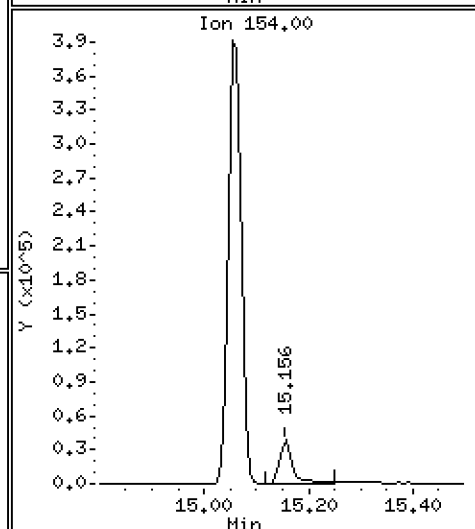
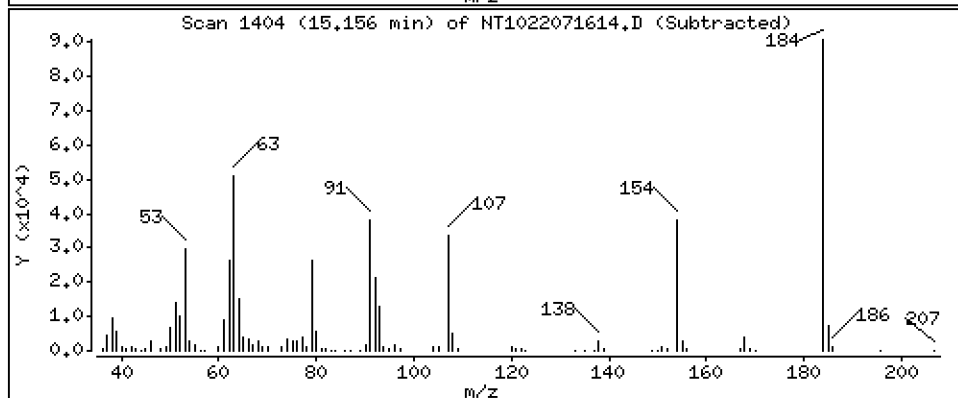
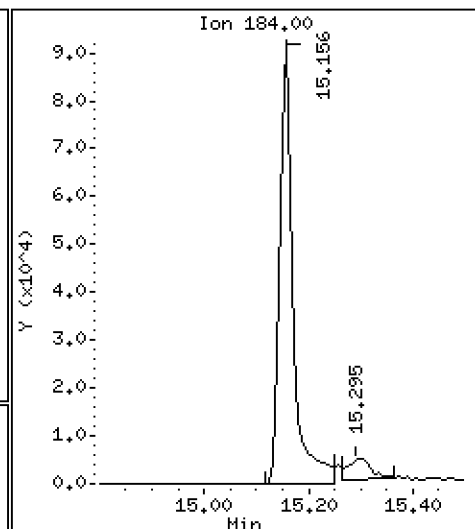
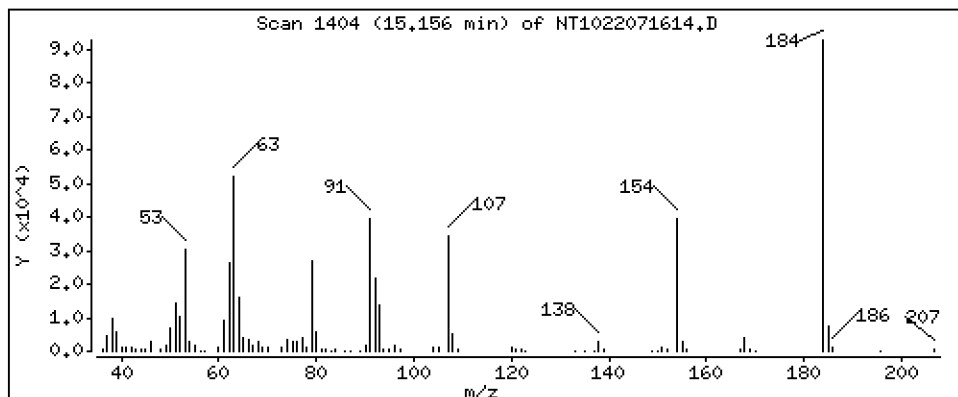
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 10,99 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

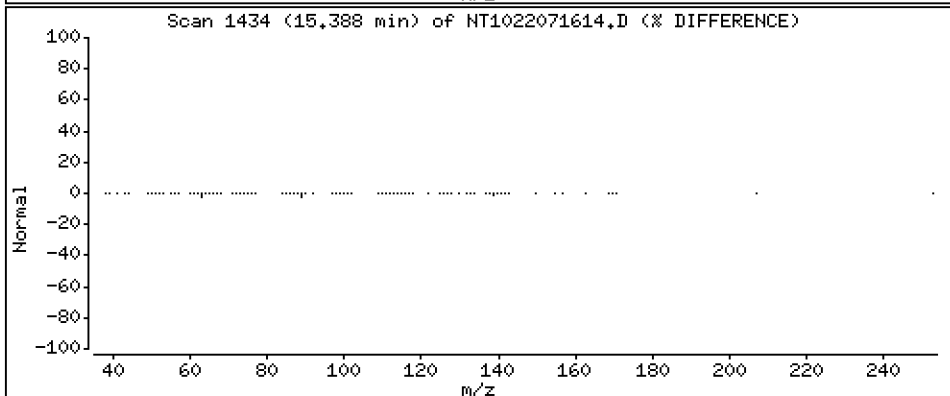
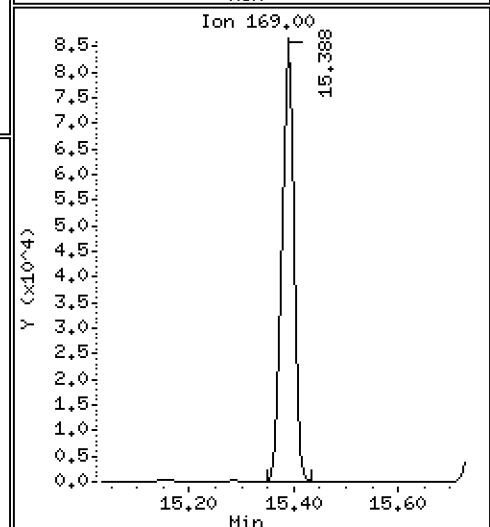
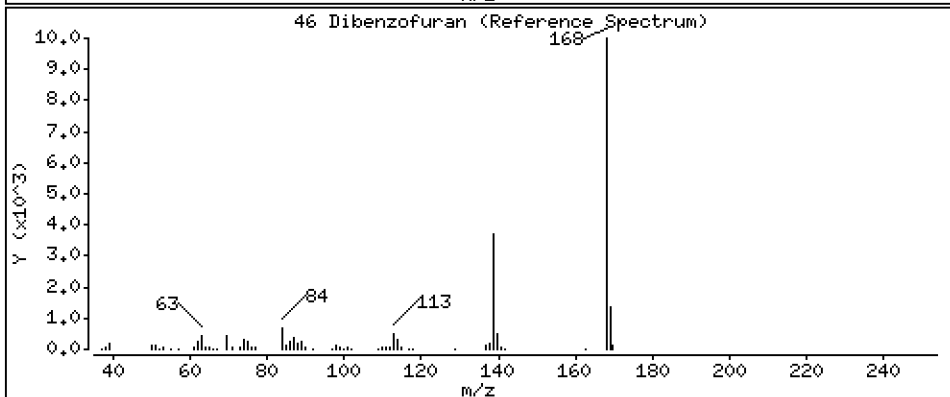
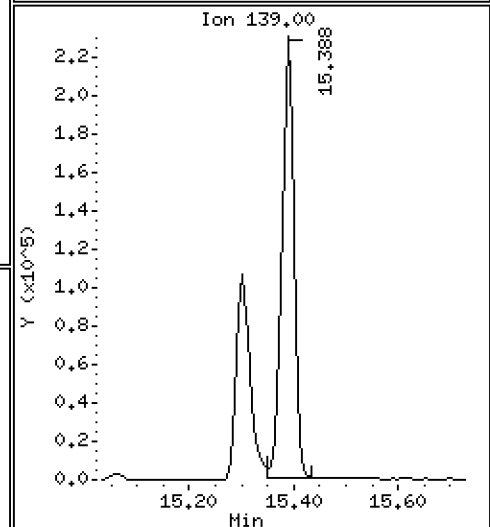
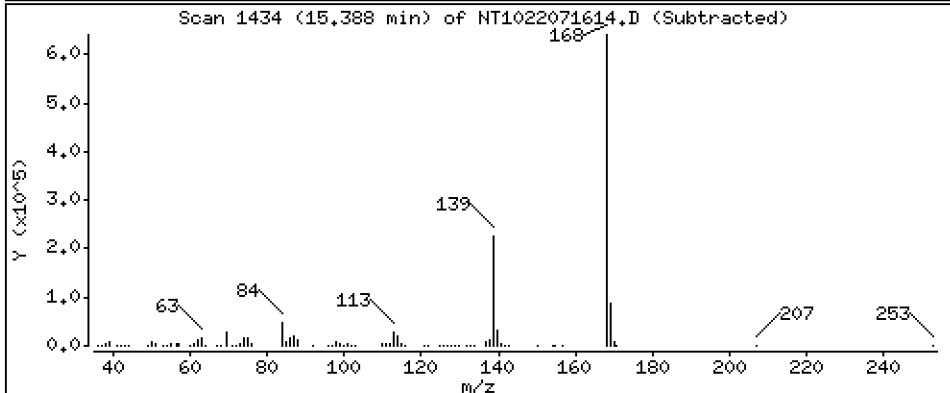
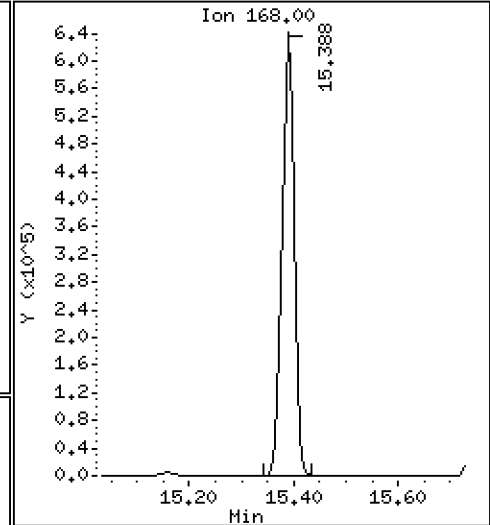
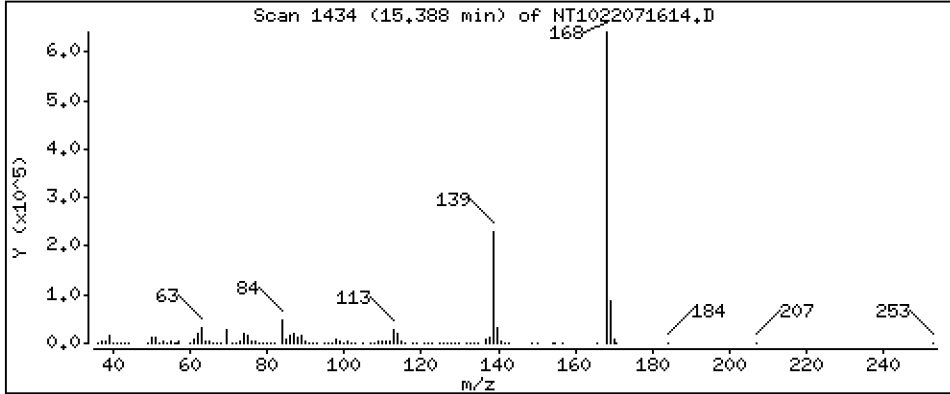
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 5,520 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

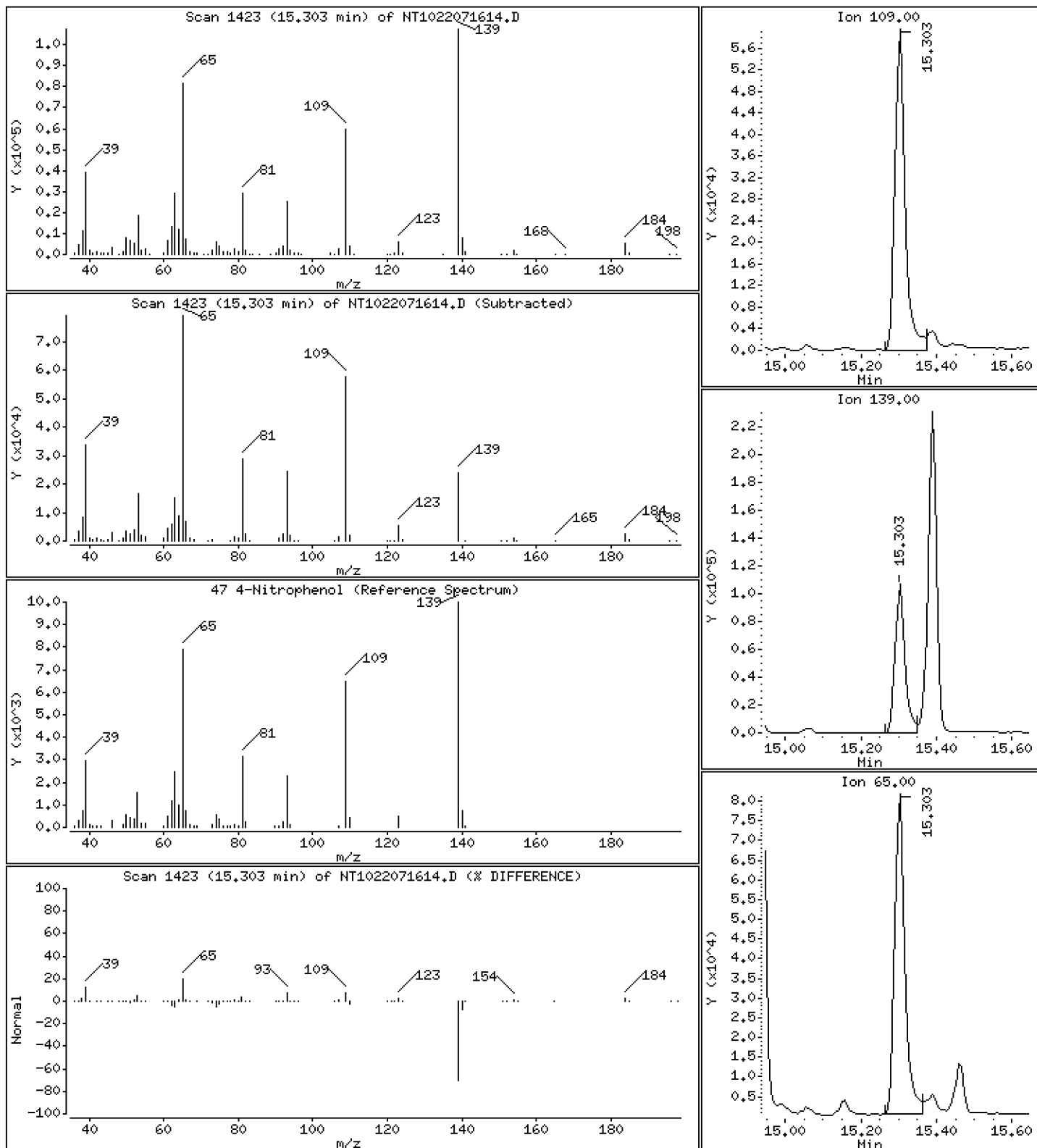
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 8,612 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

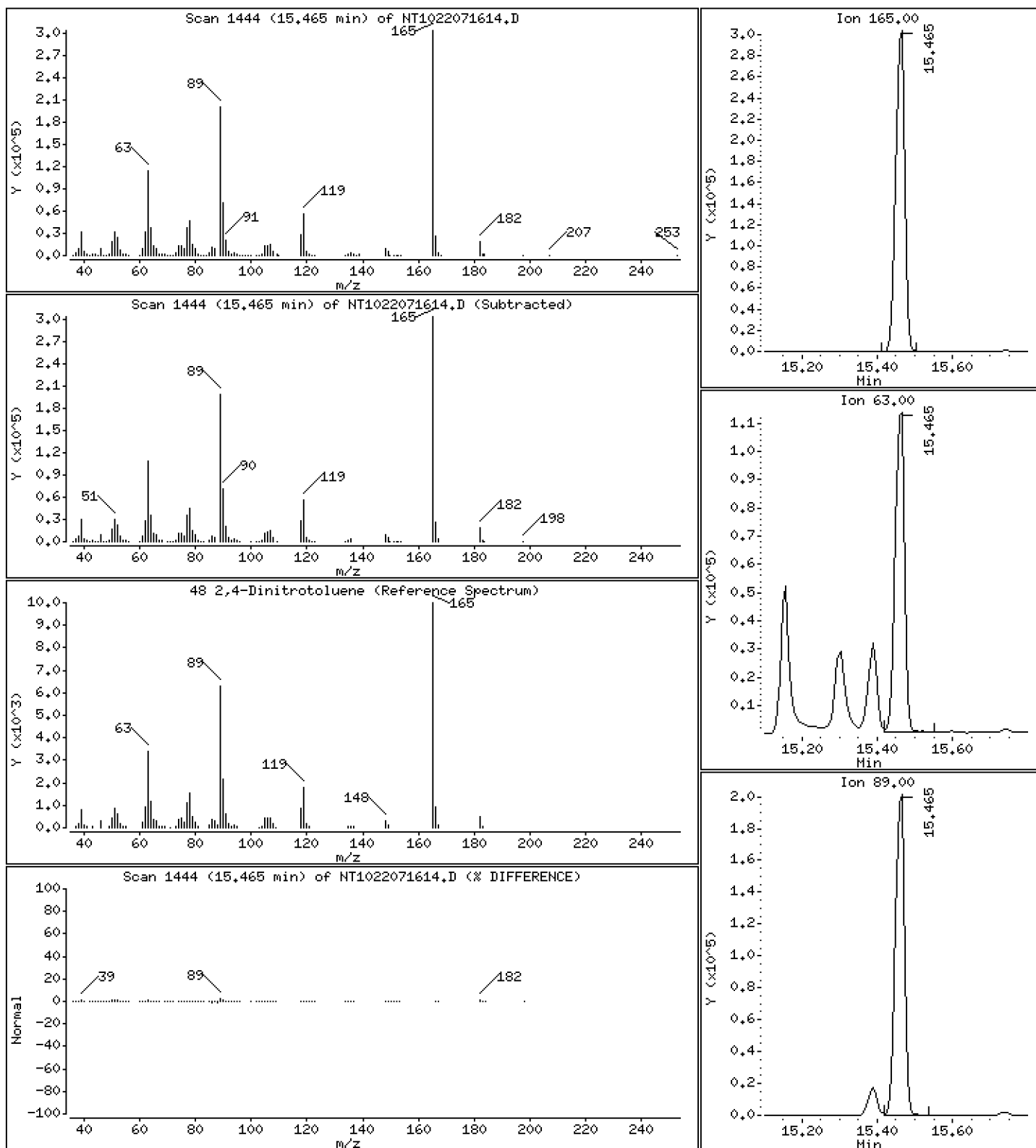
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 11,16 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

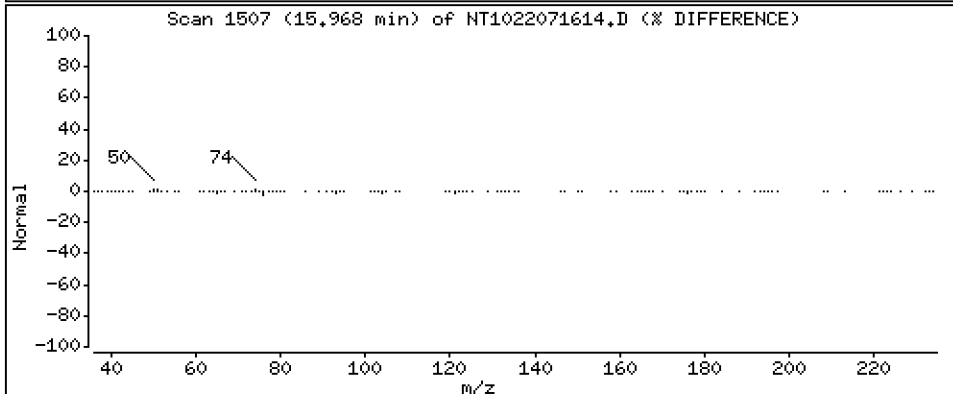
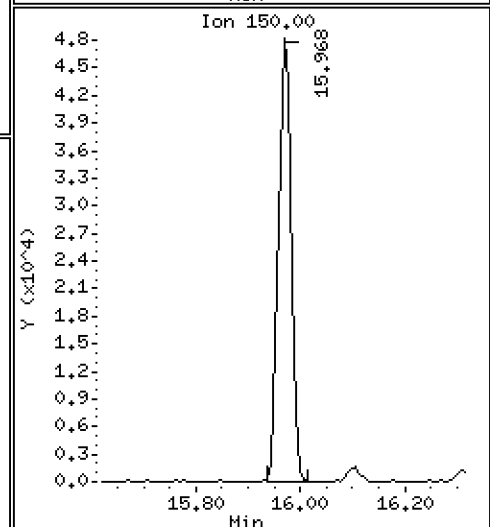
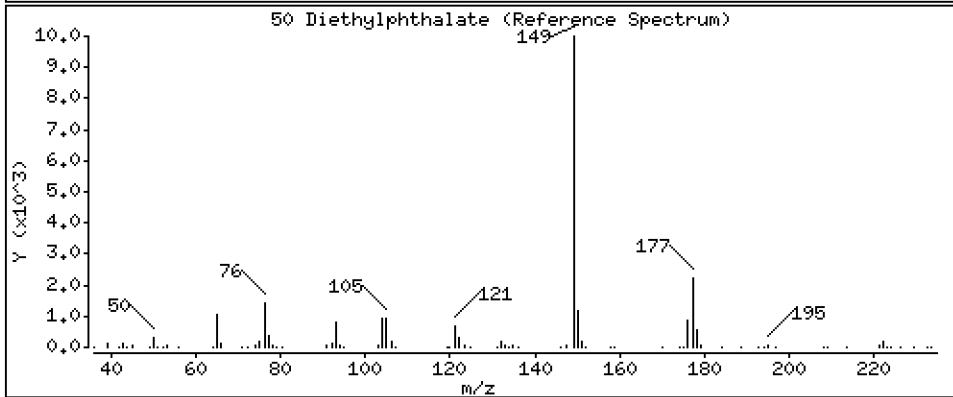
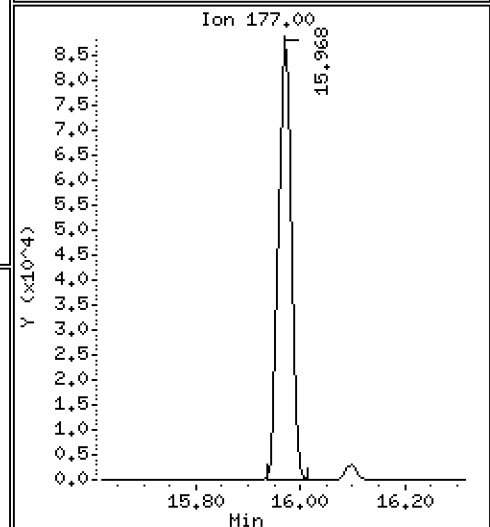
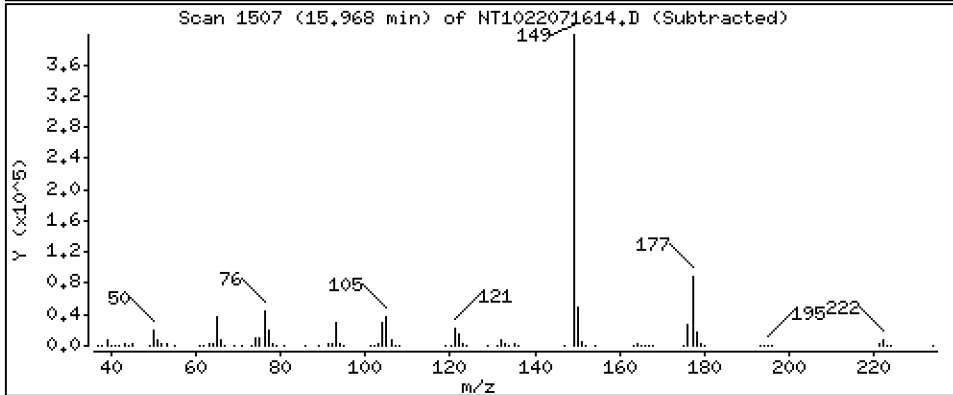
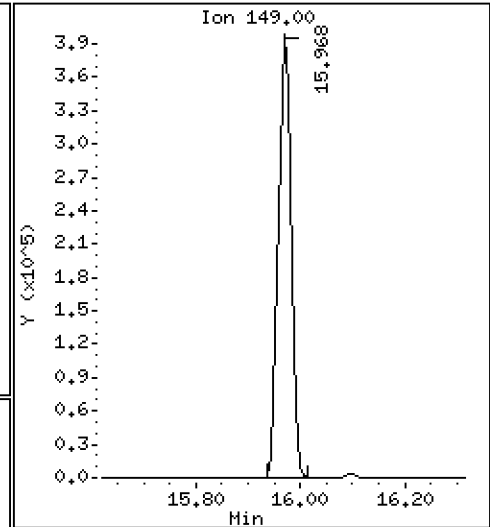
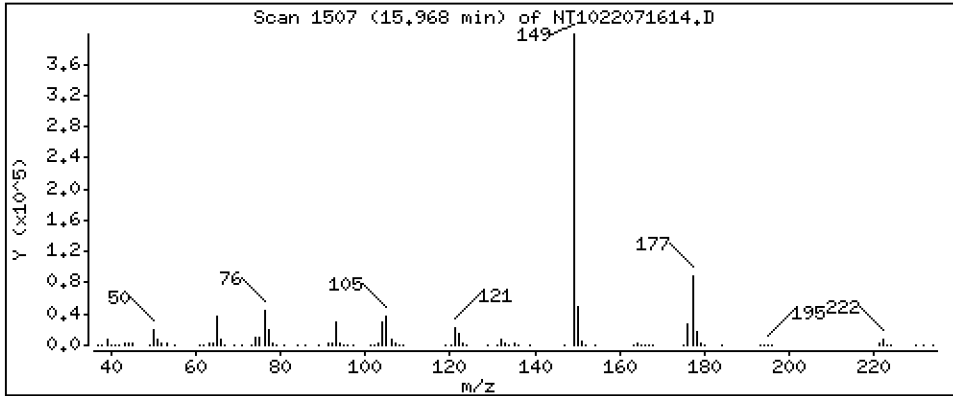
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 4.999 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

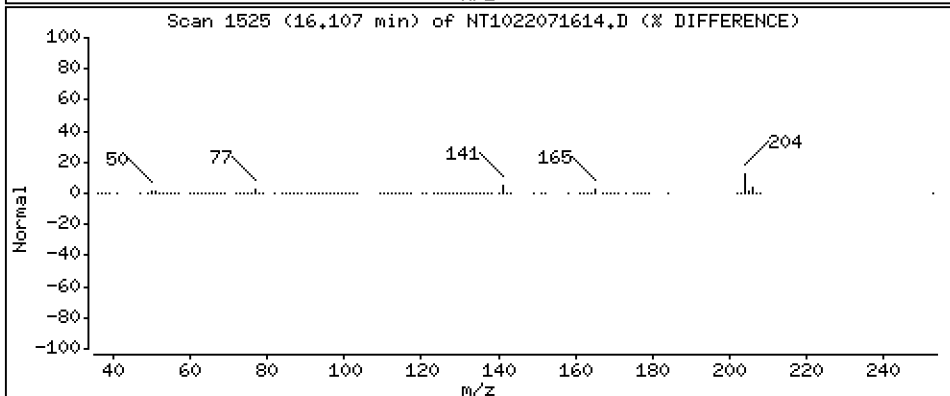
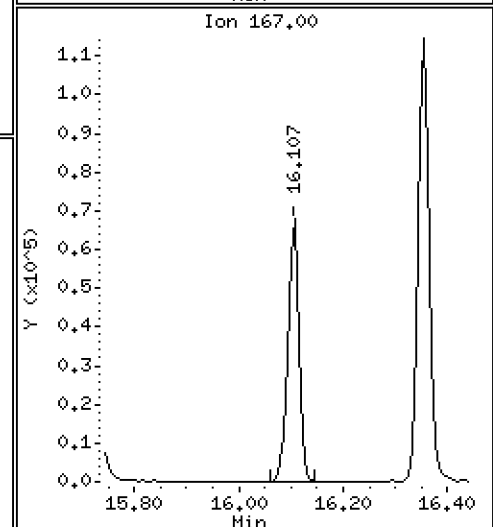
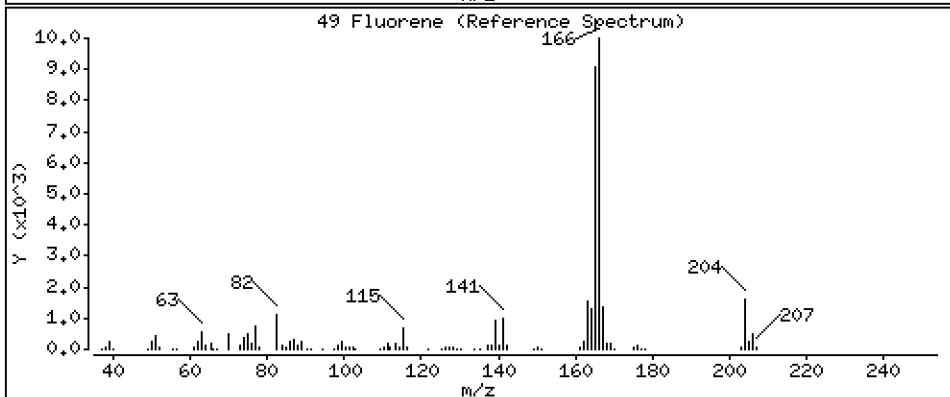
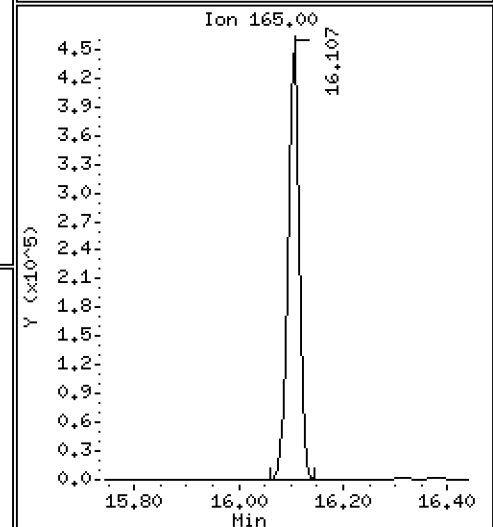
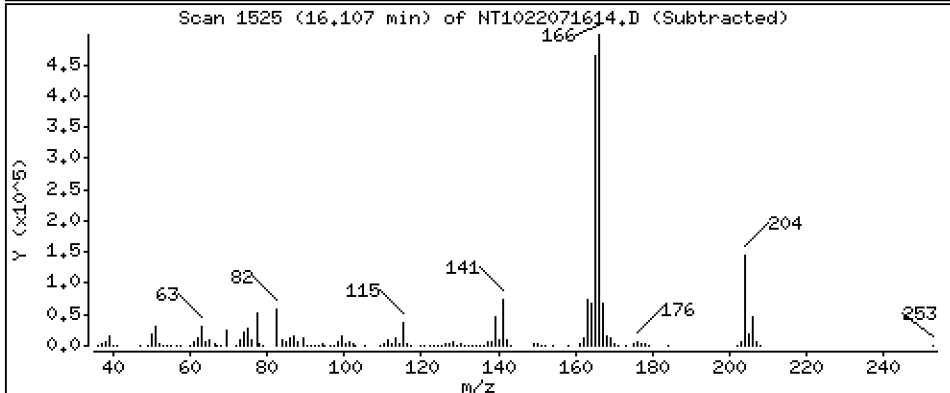
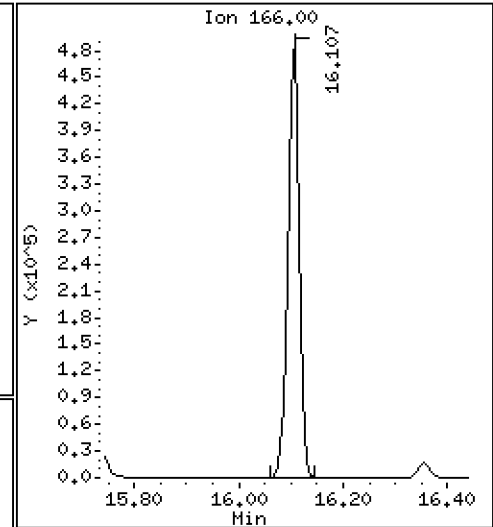
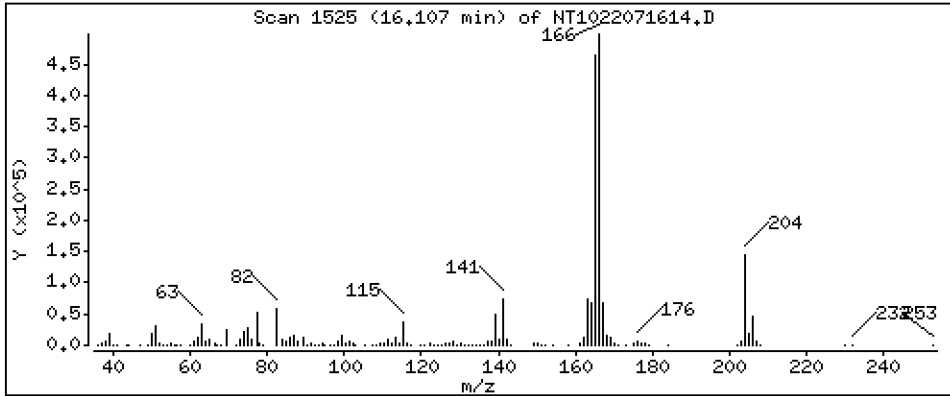
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 3,468 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

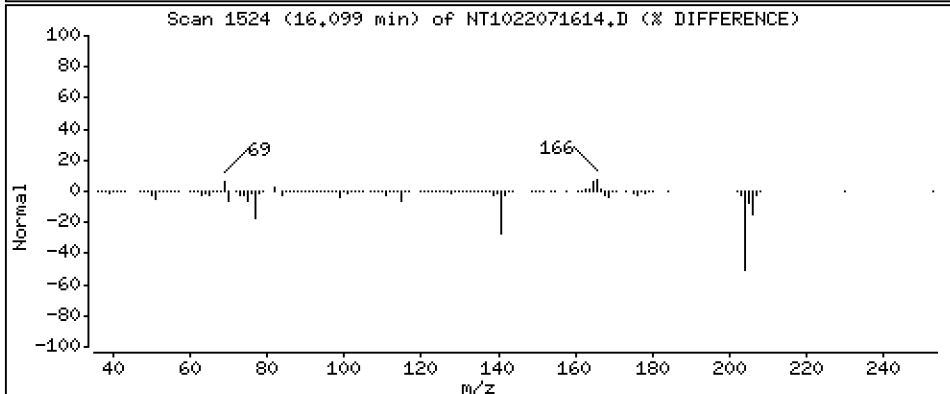
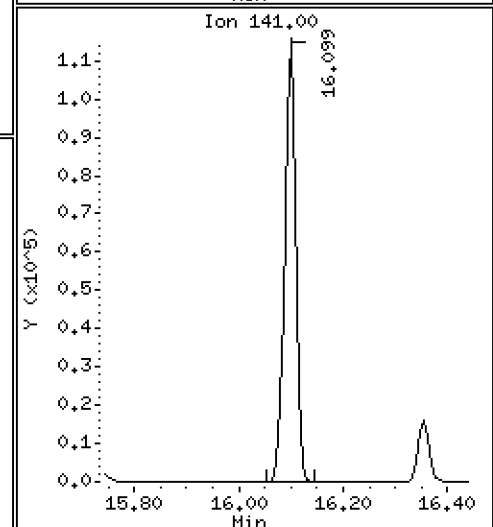
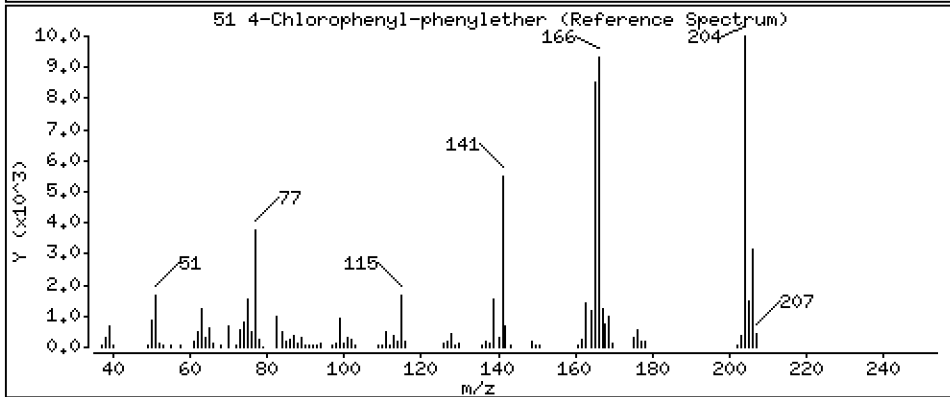
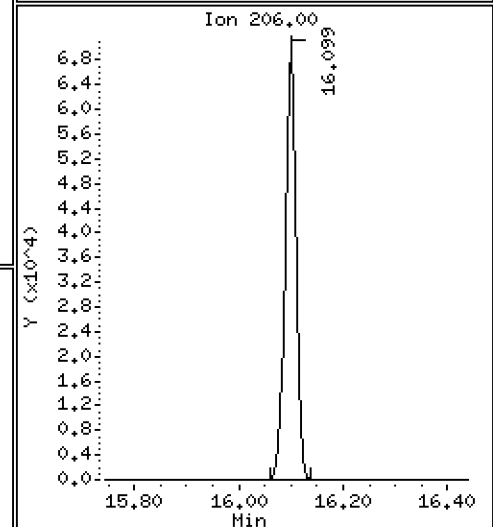
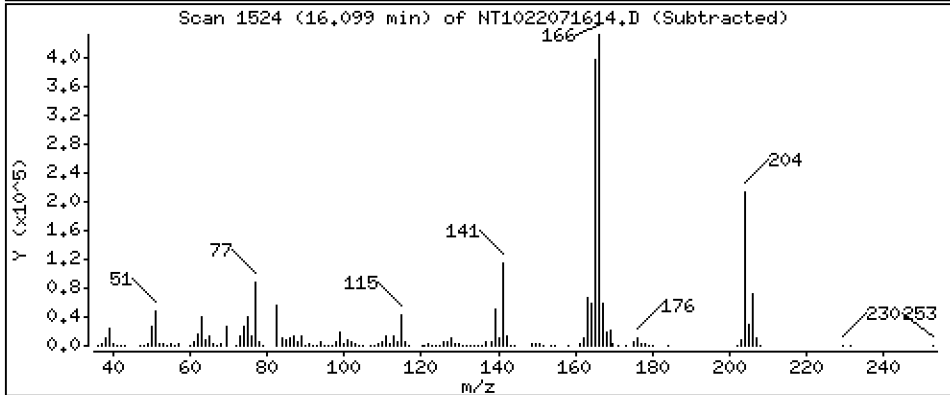
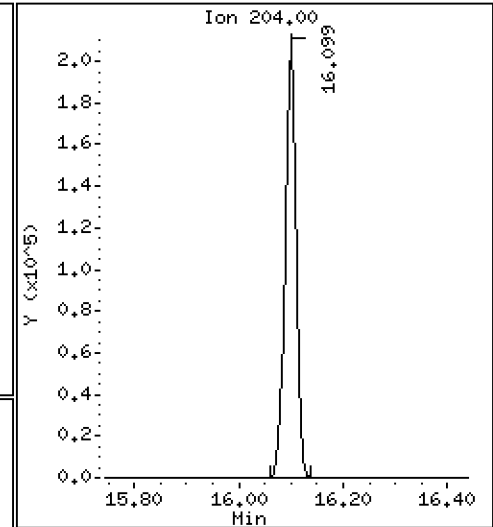
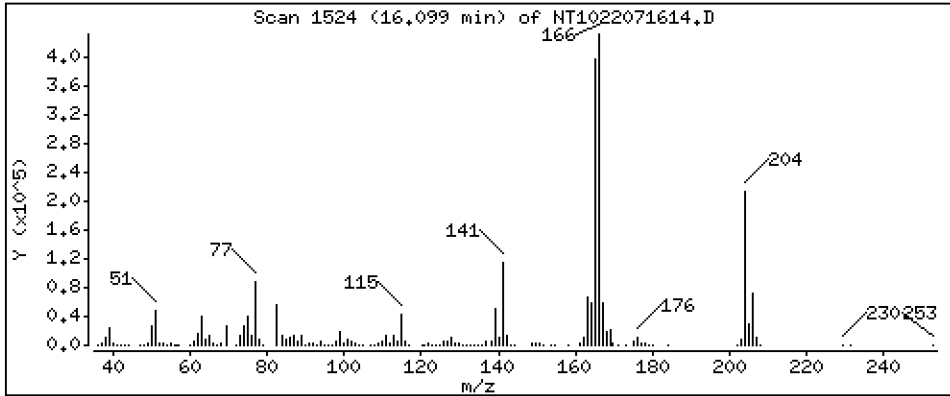
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 3,217 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

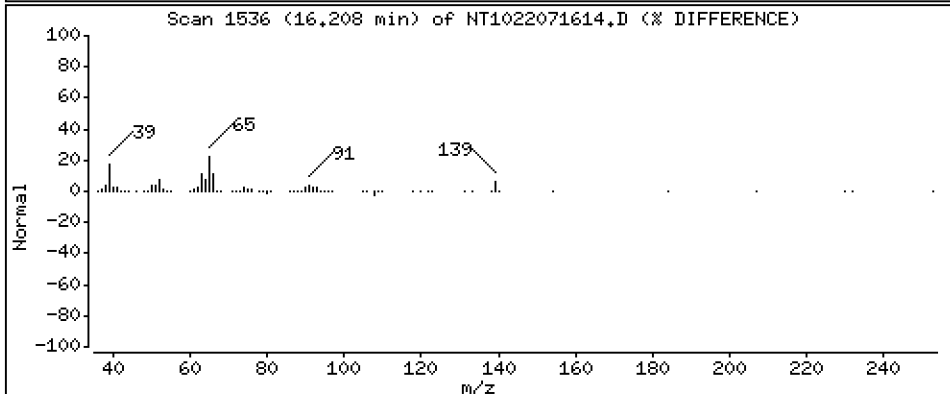
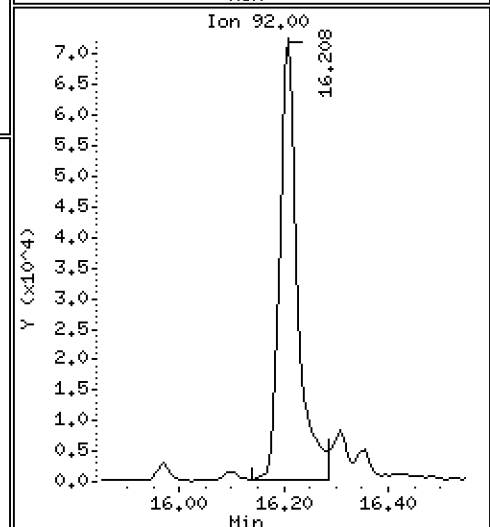
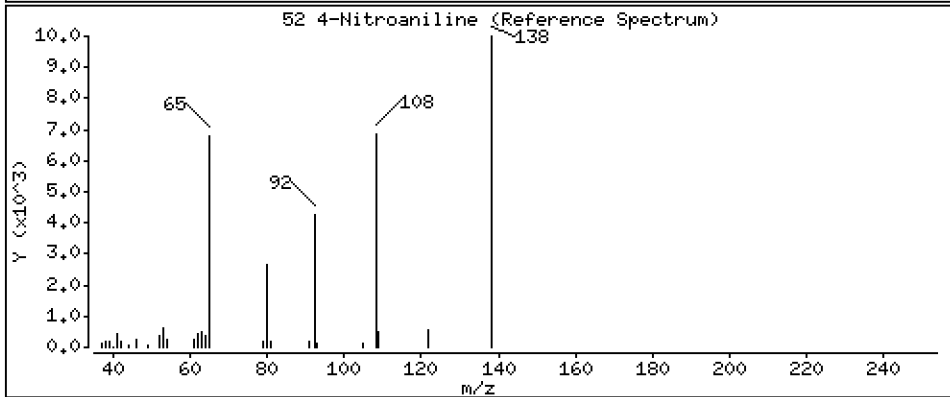
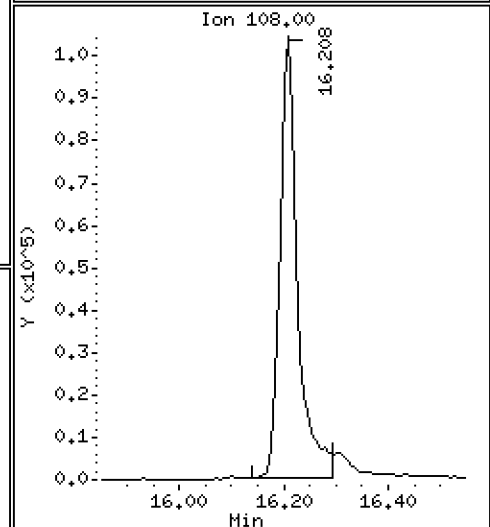
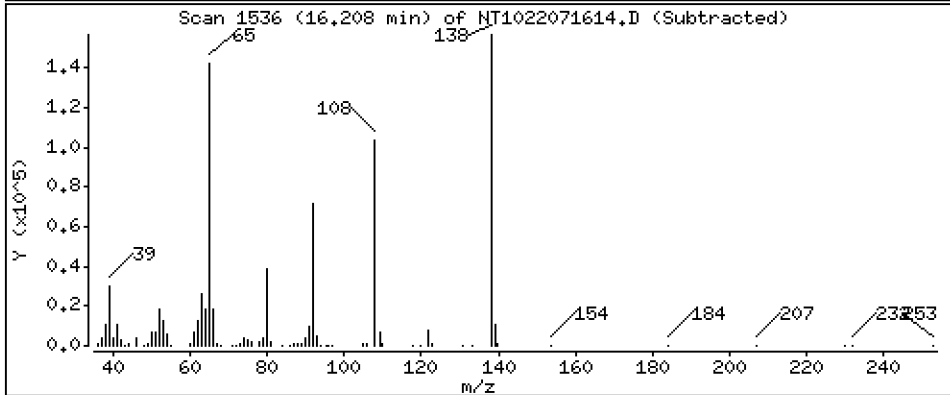
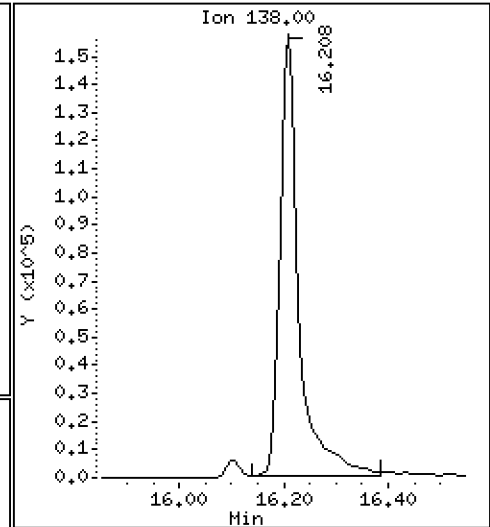
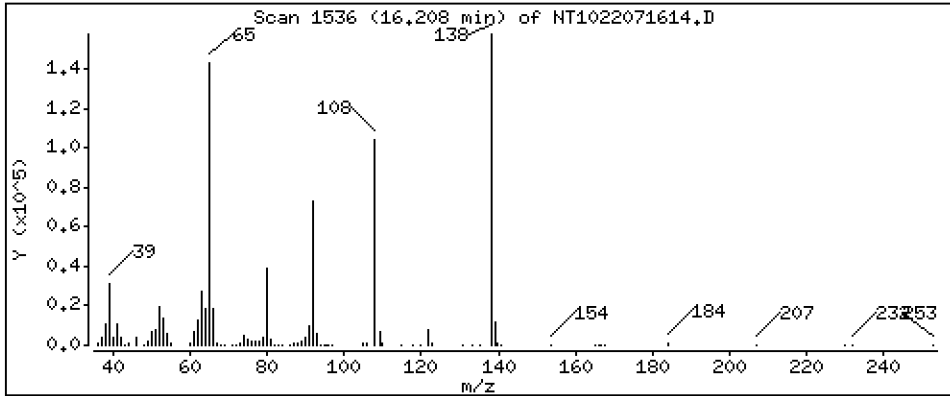
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 11,22 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

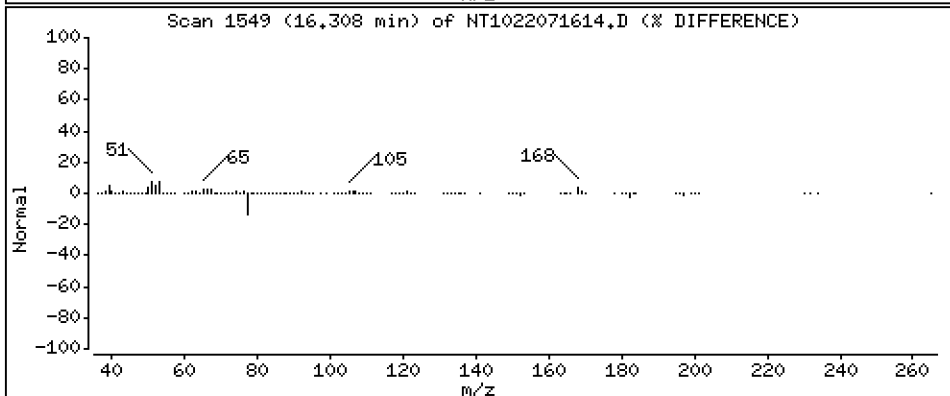
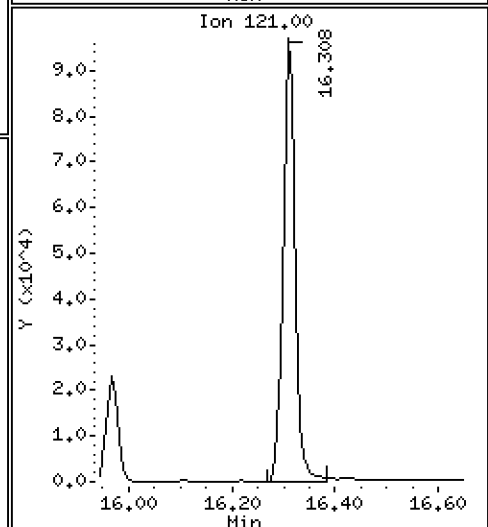
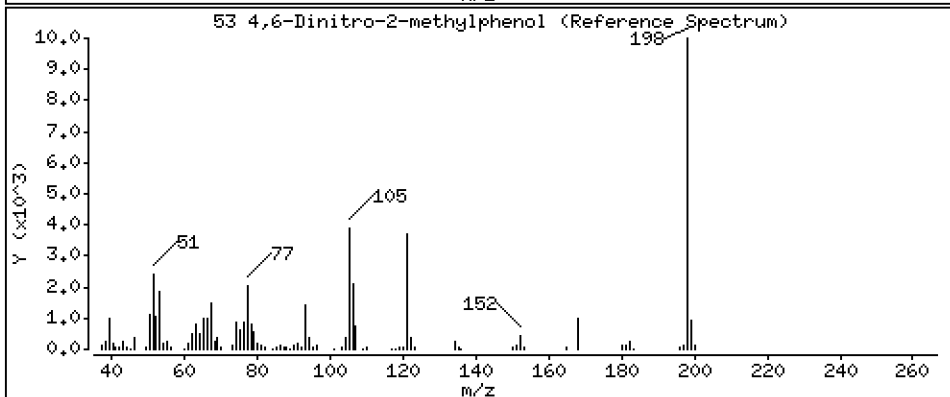
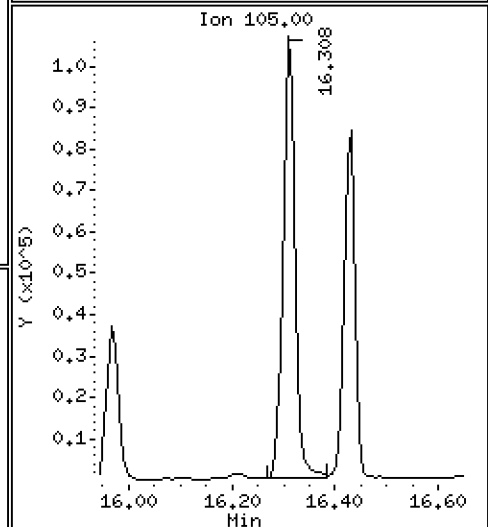
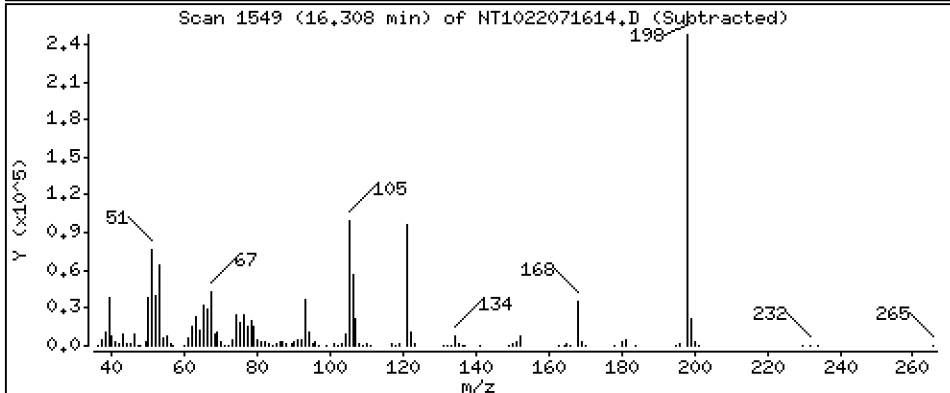
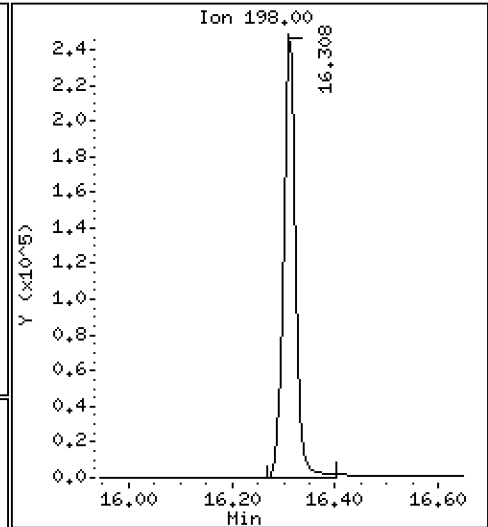
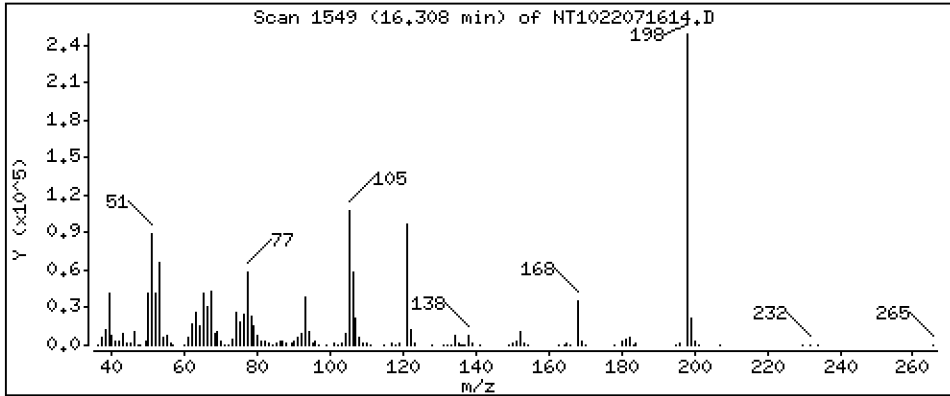
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 16.74 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

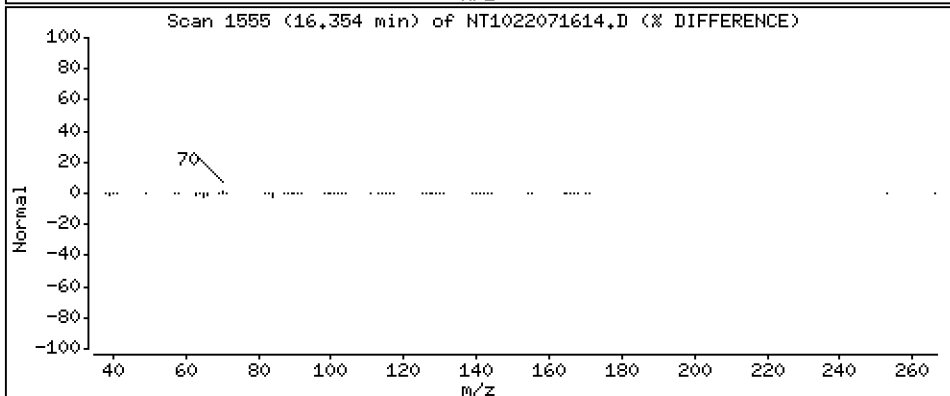
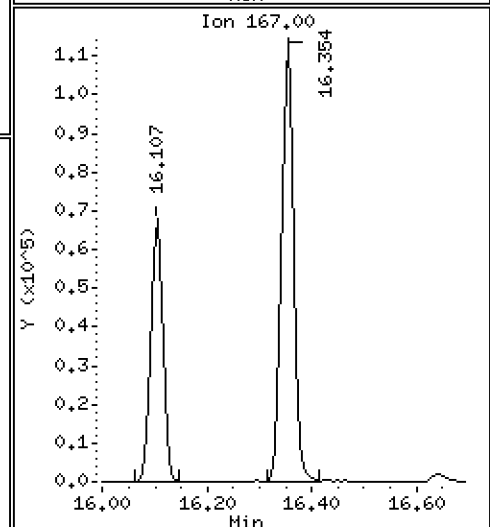
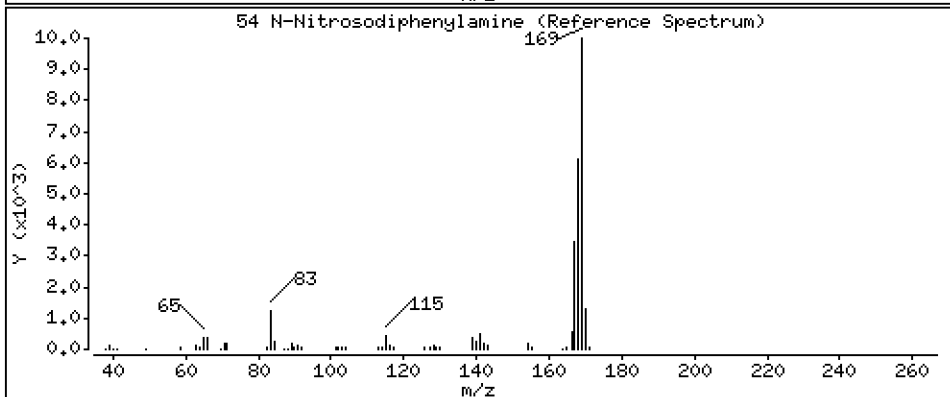
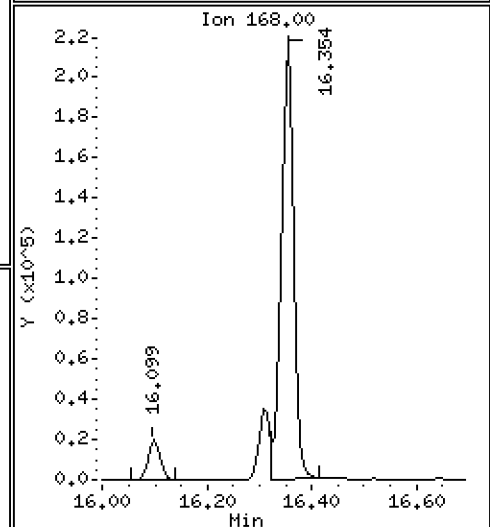
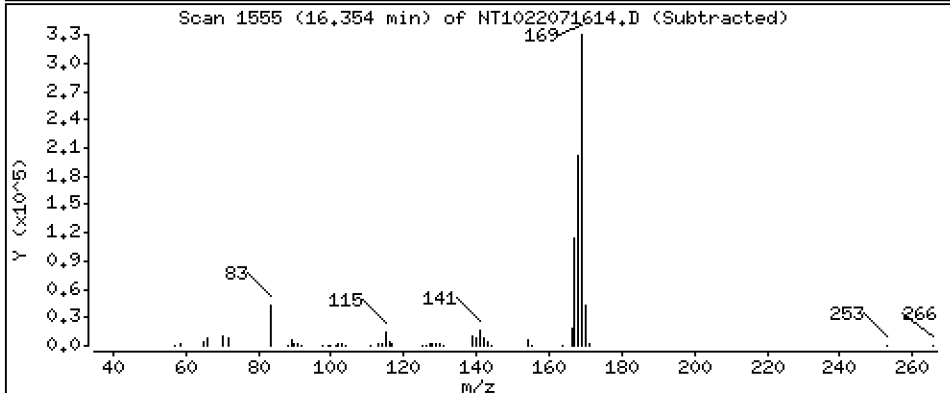
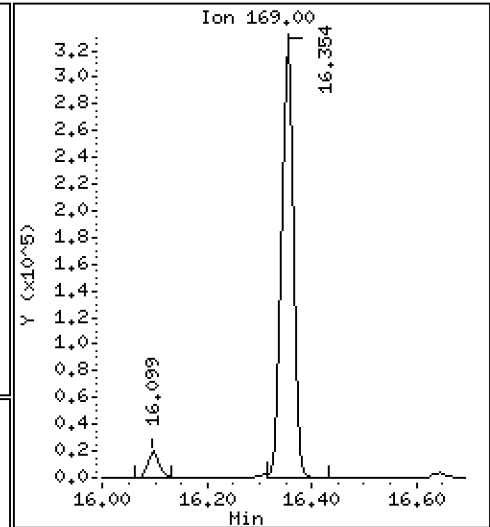
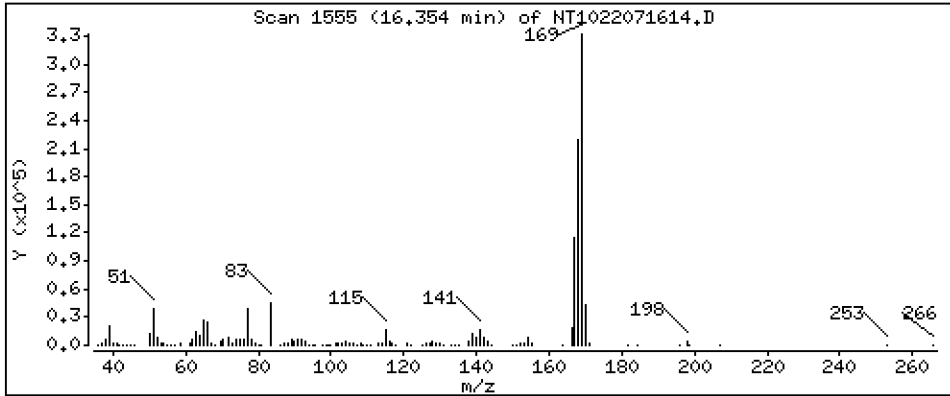
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 5,137 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

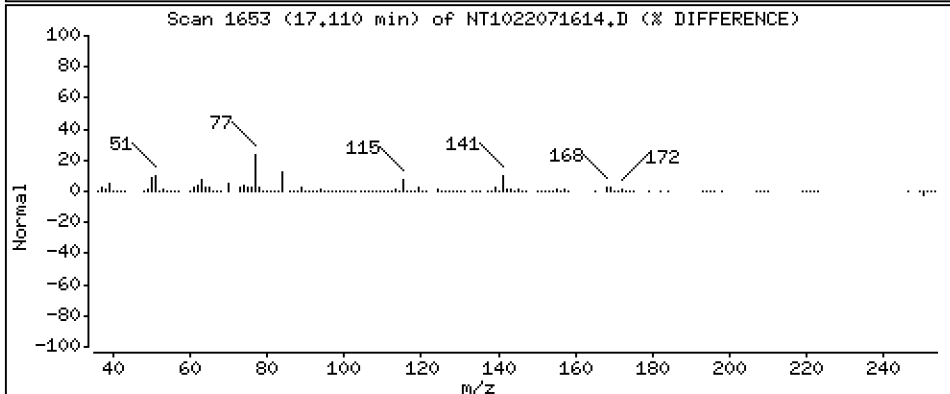
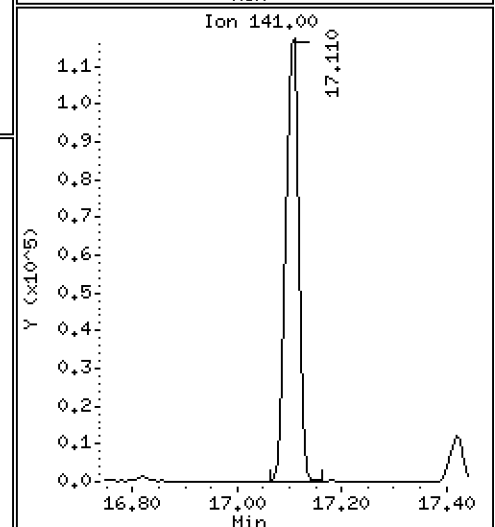
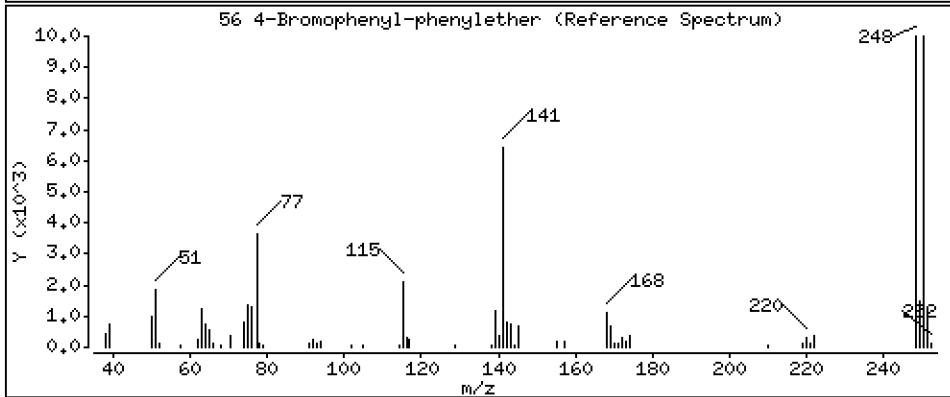
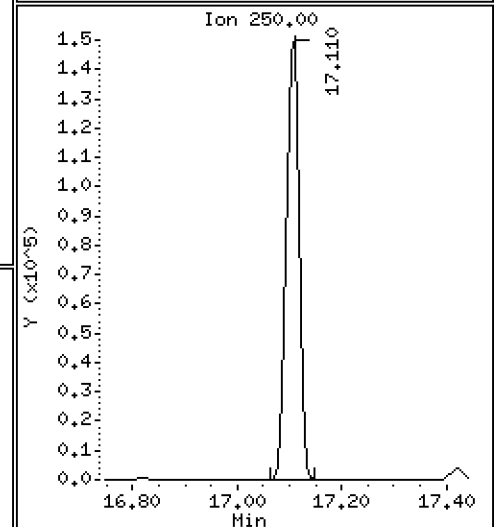
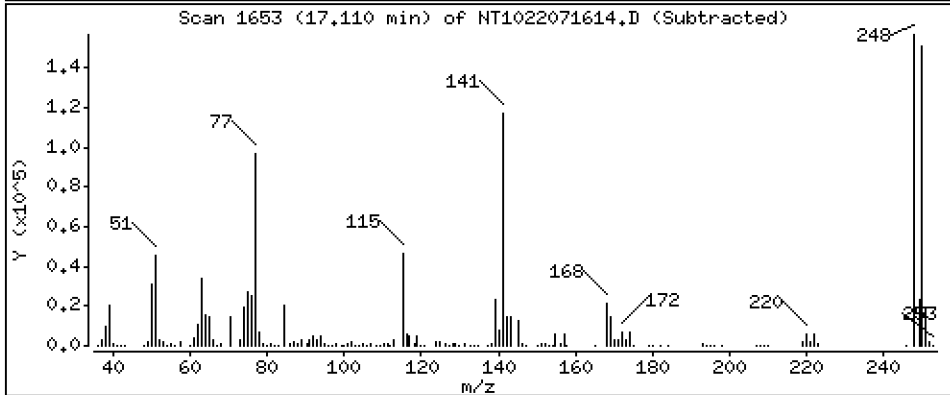
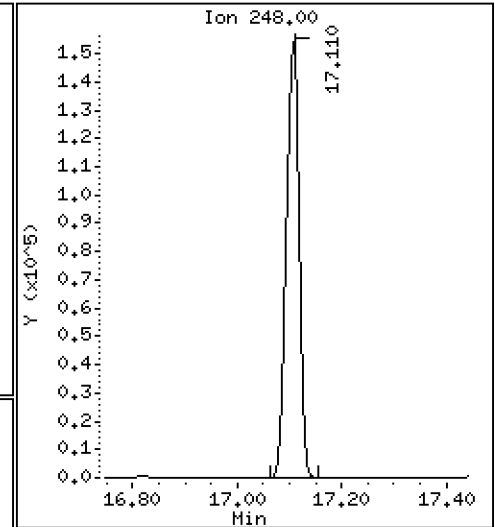
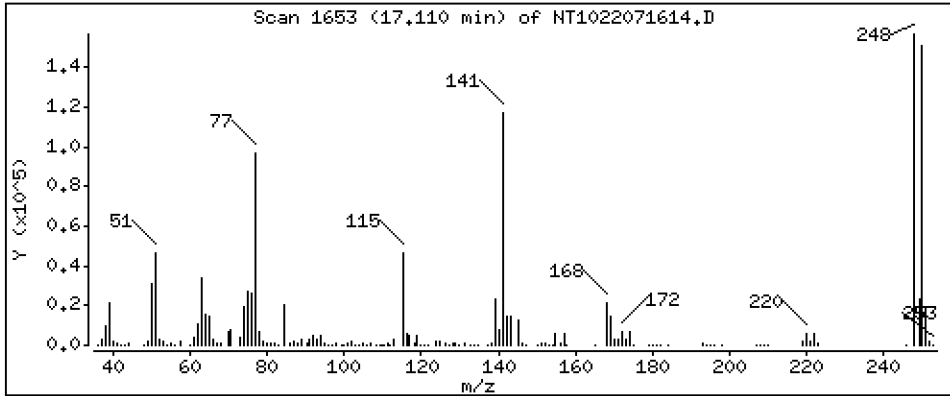
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,547 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

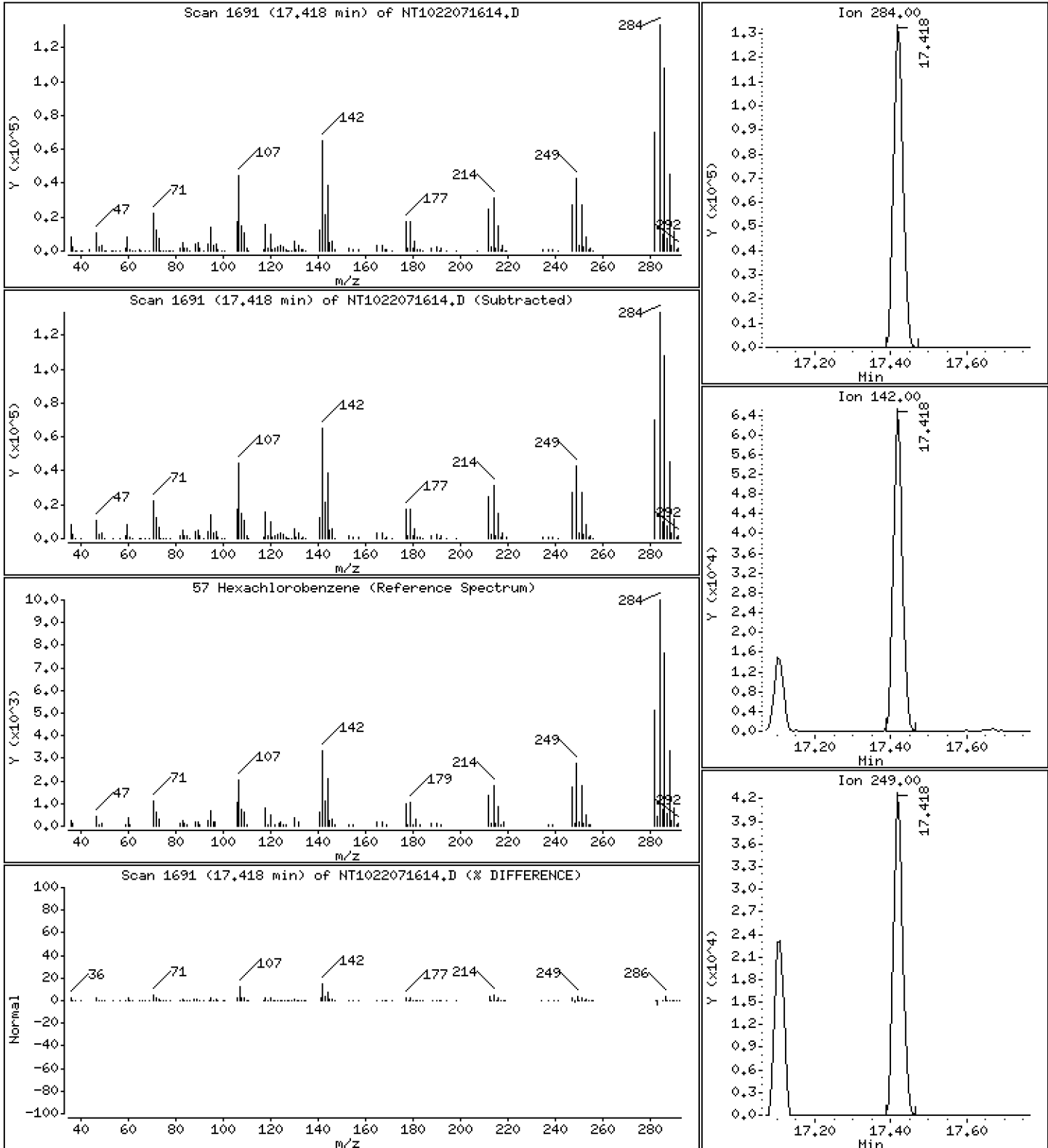
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,985 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

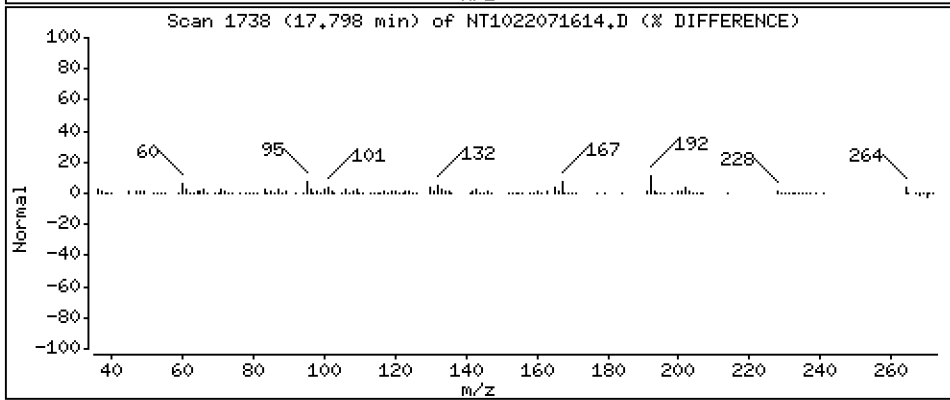
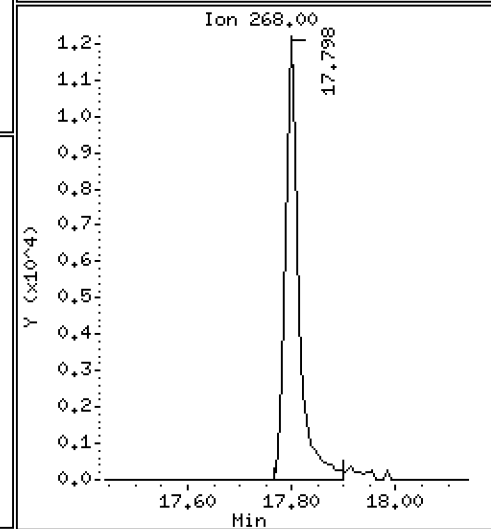
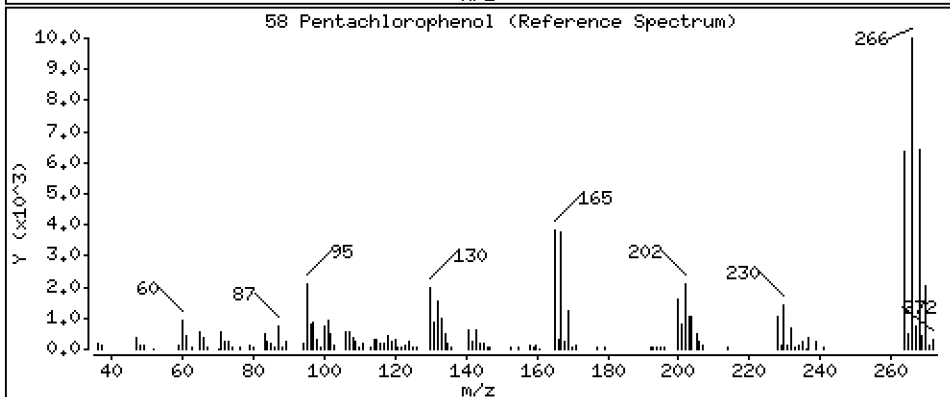
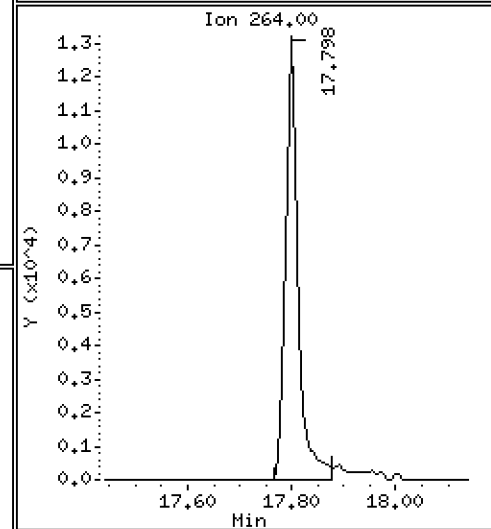
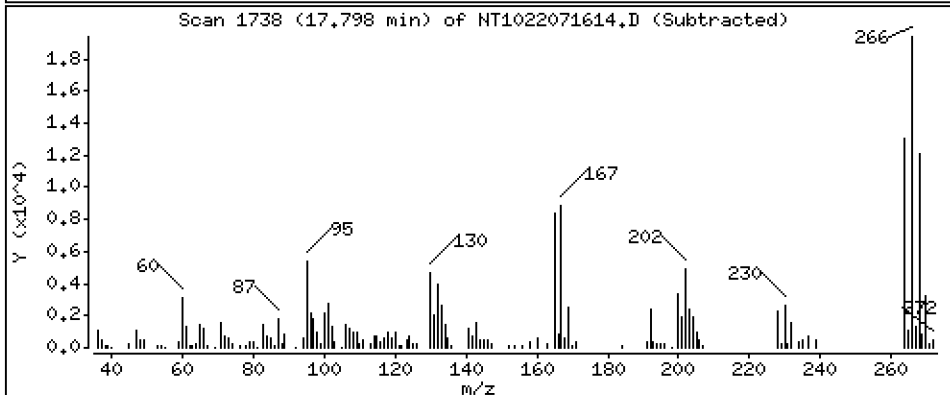
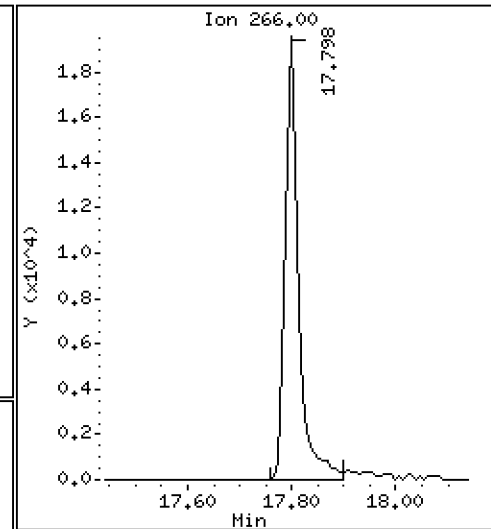
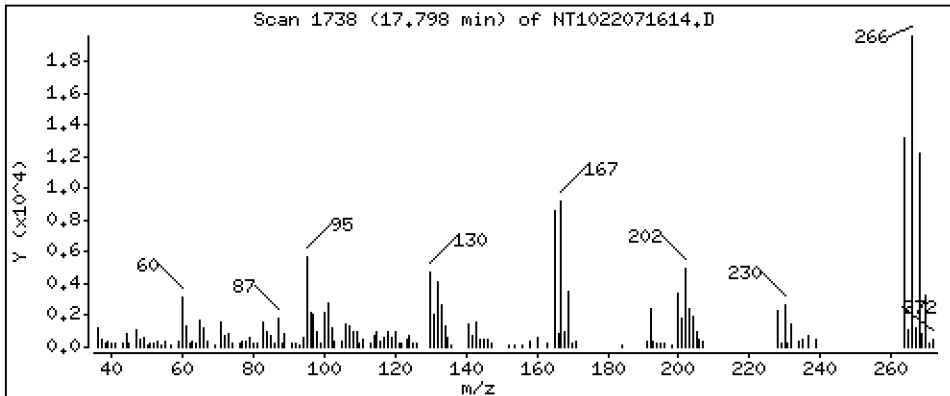
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,635 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

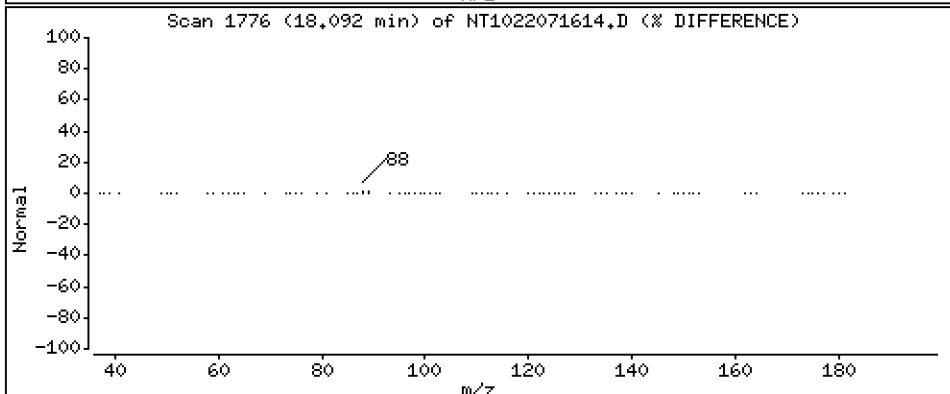
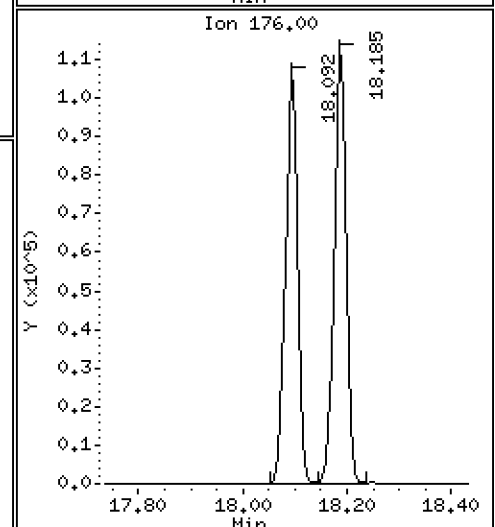
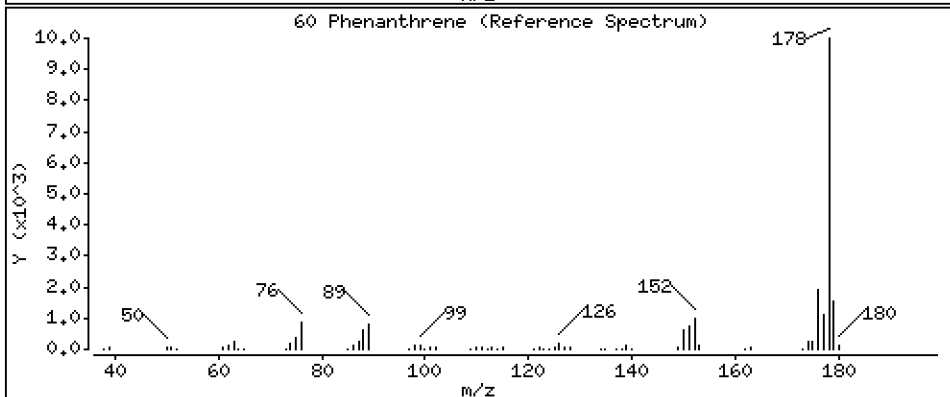
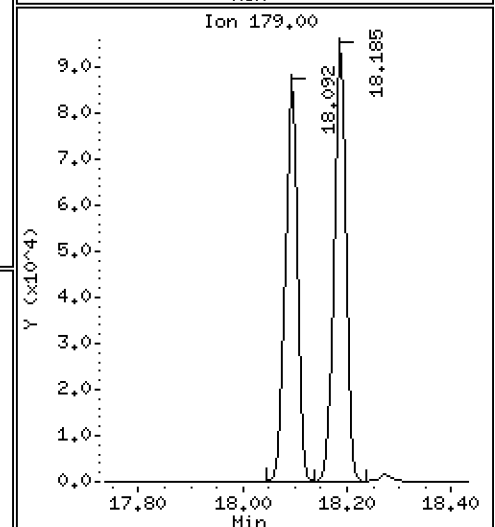
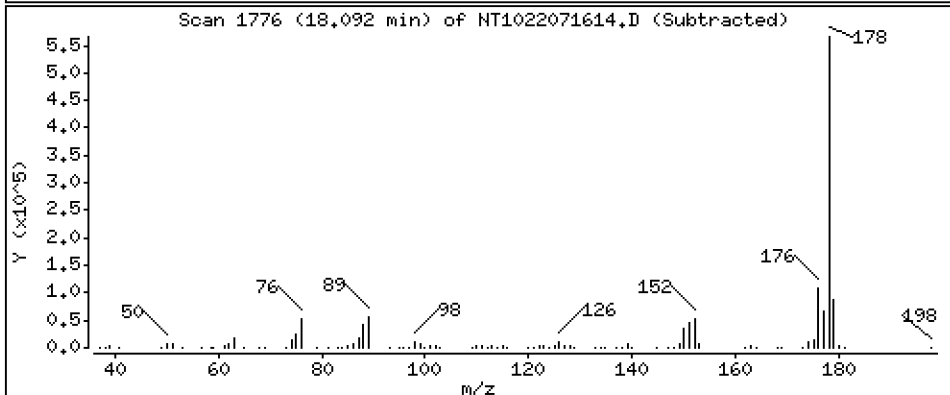
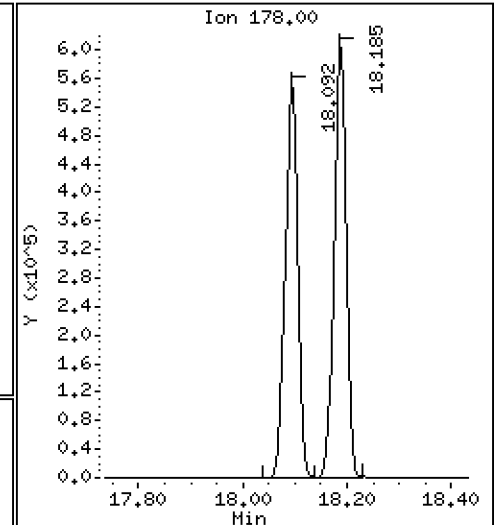
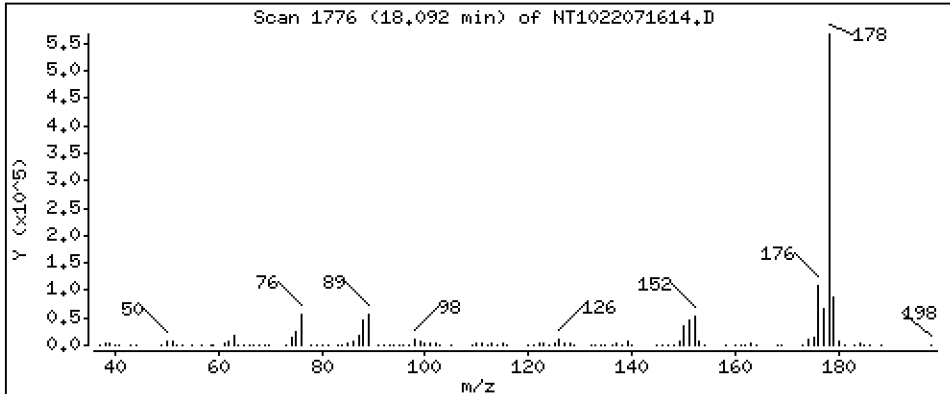
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 5,548 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

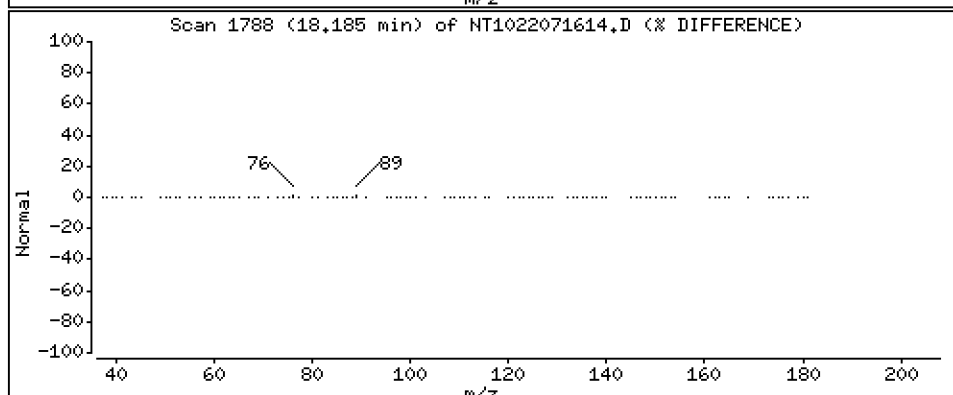
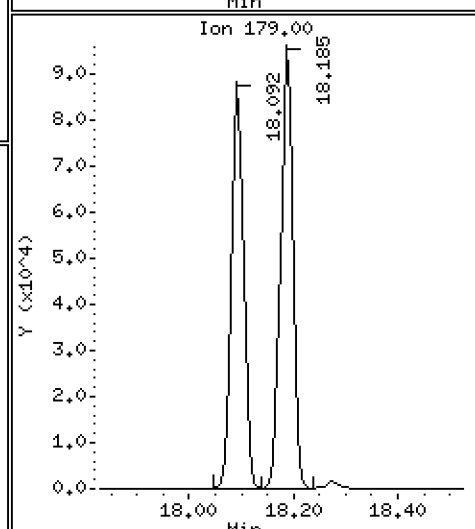
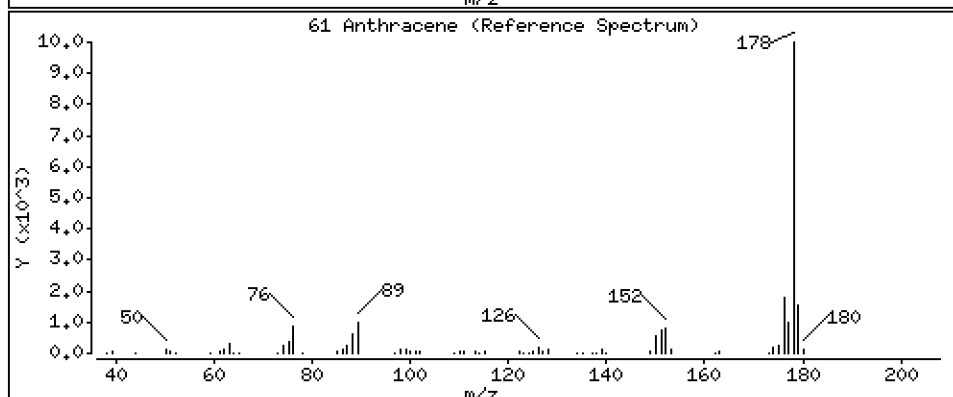
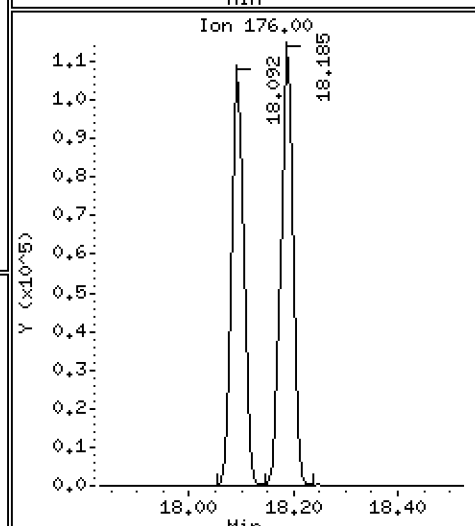
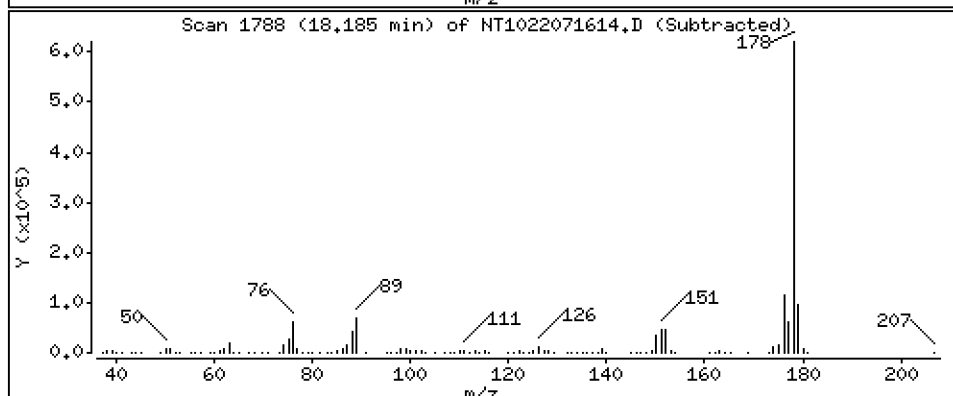
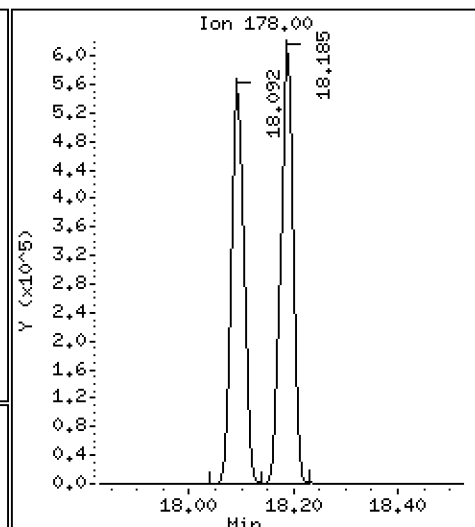
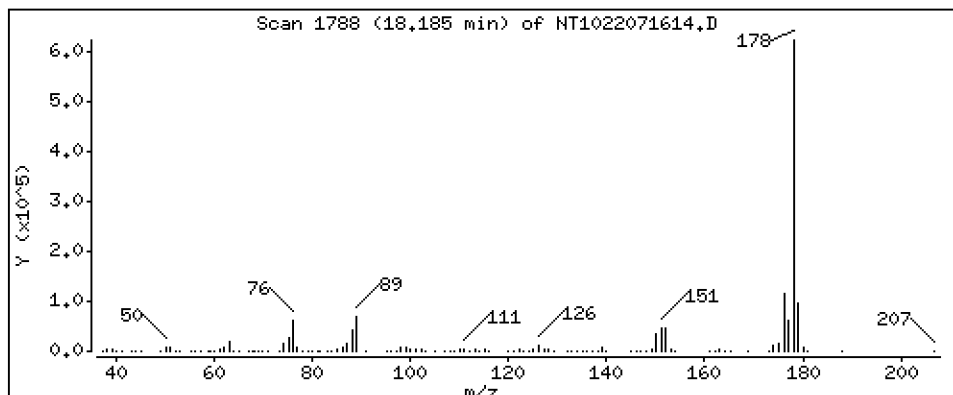
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 5,743 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

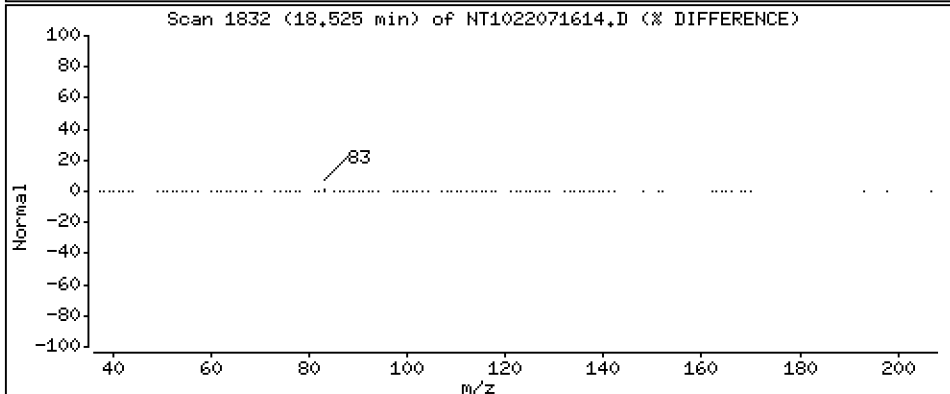
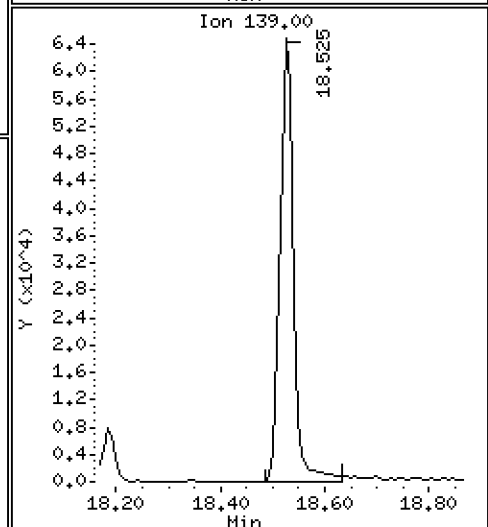
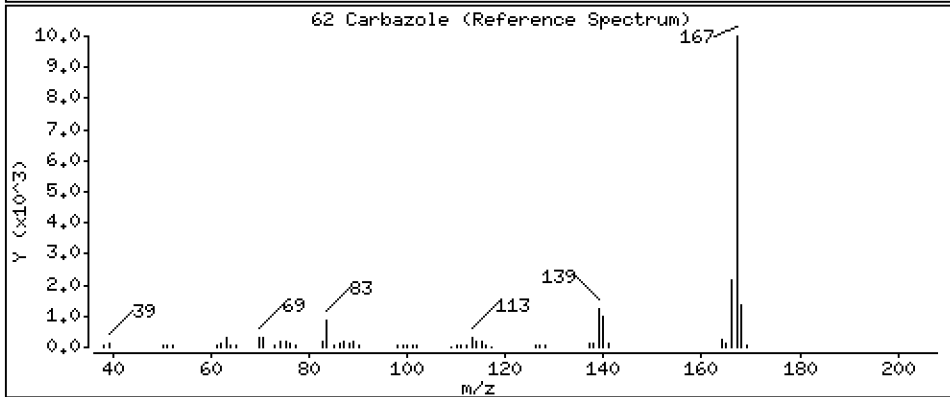
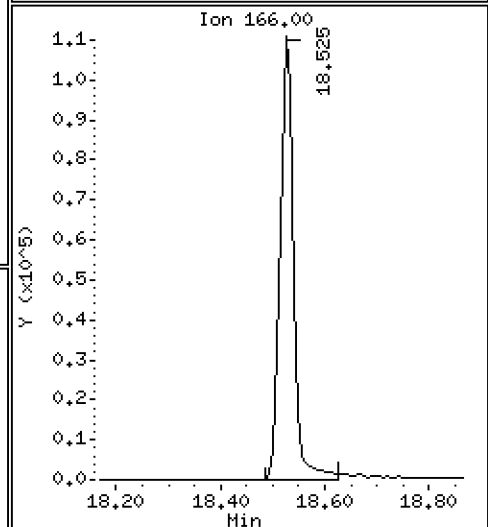
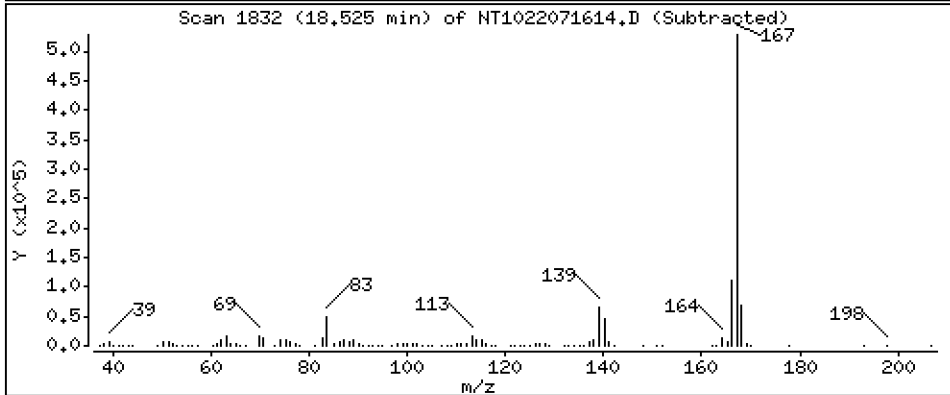
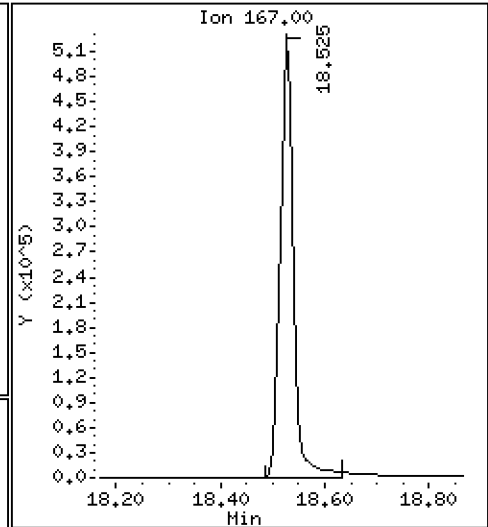
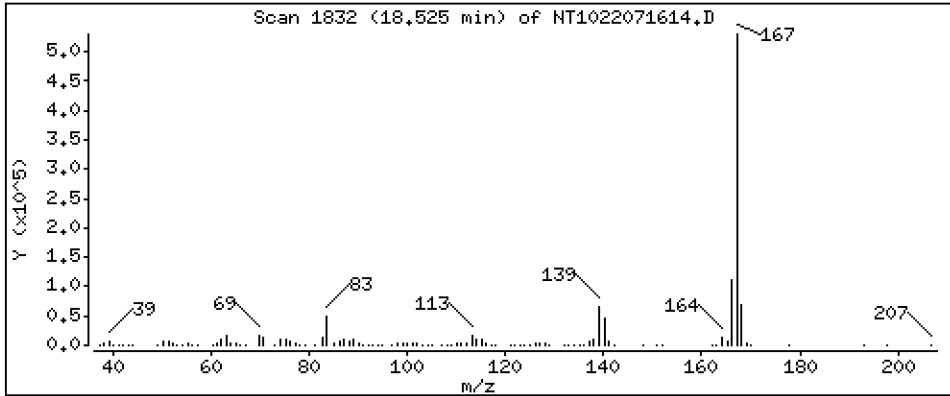
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,652 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

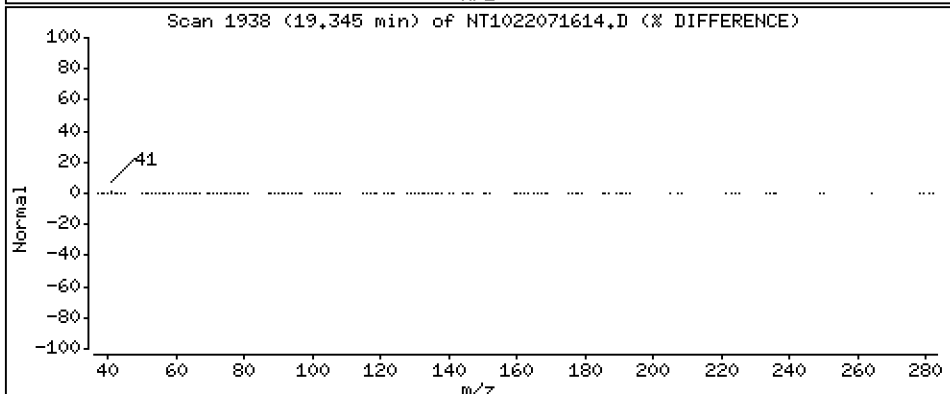
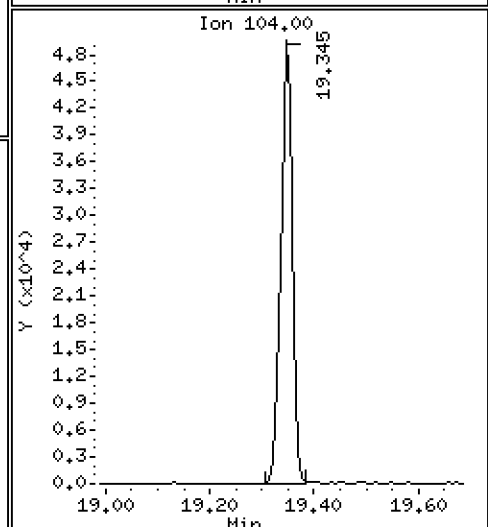
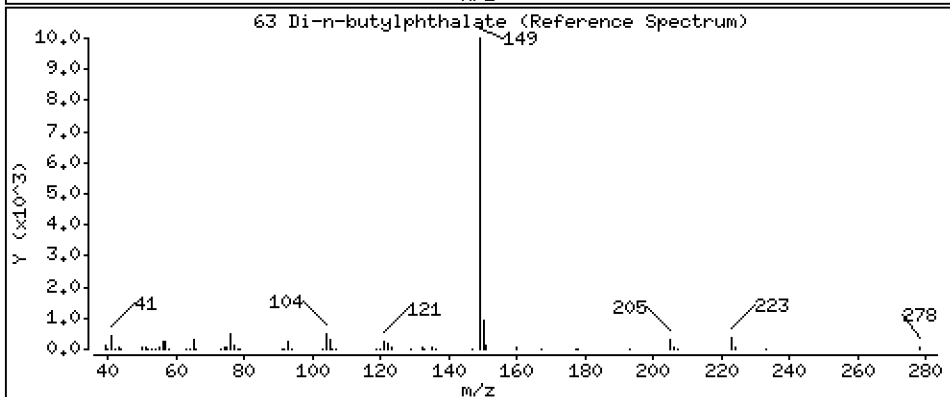
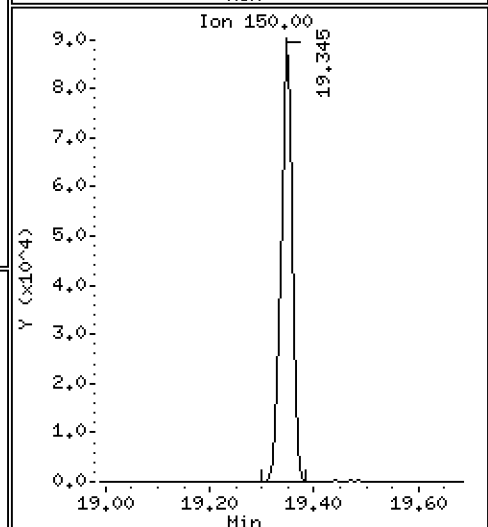
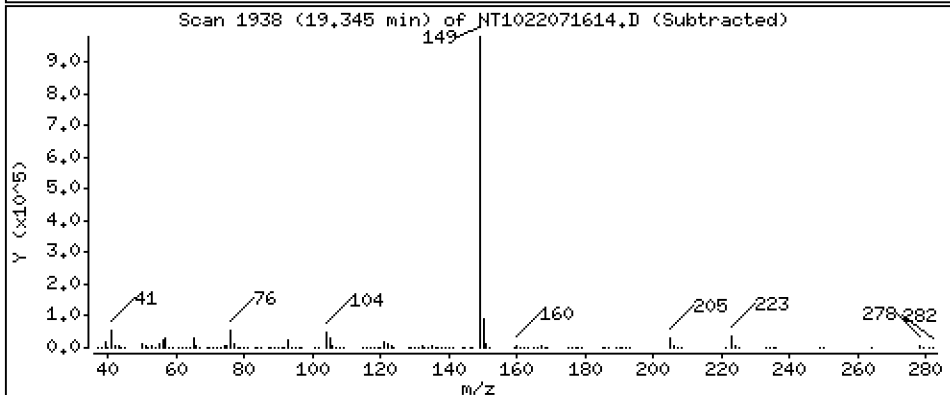
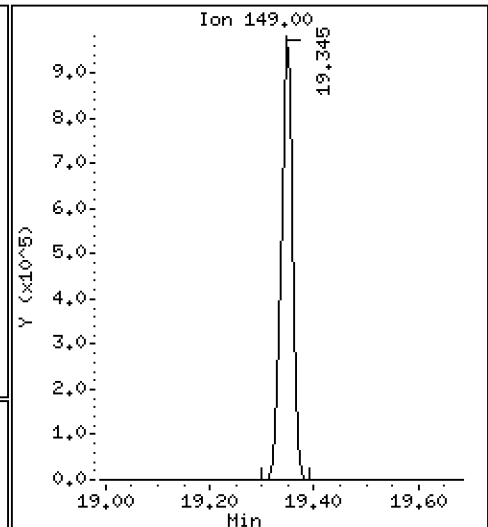
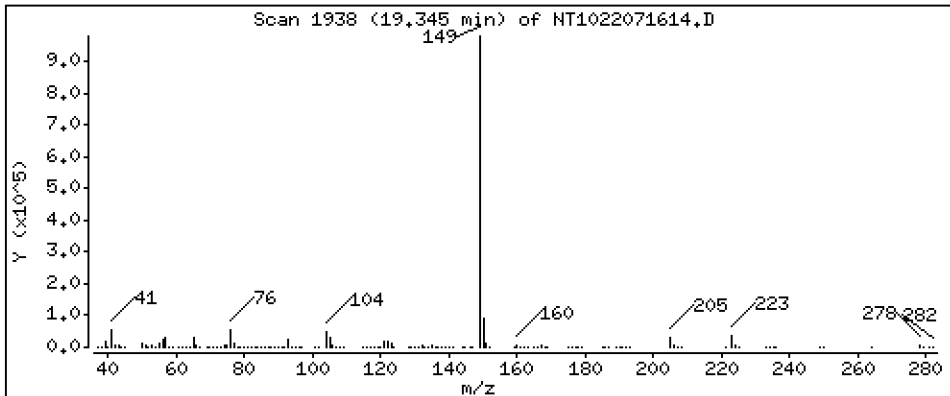
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,819 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

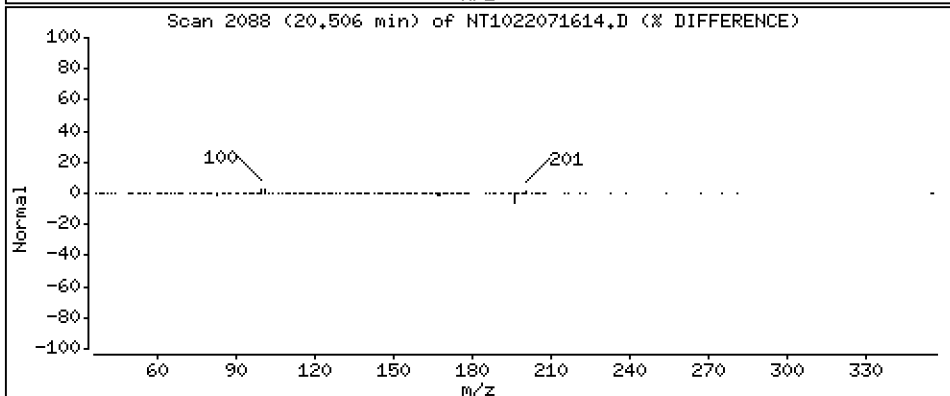
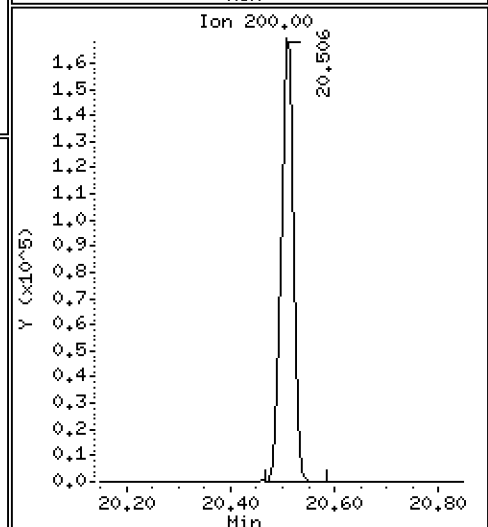
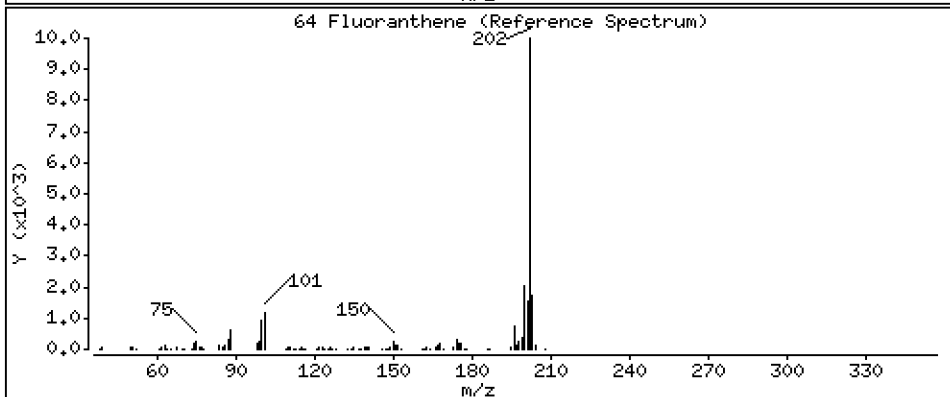
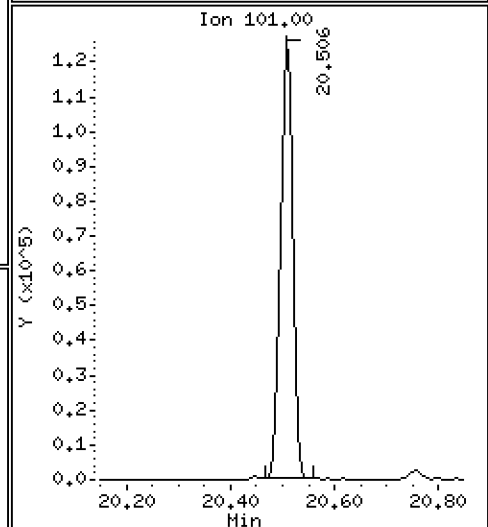
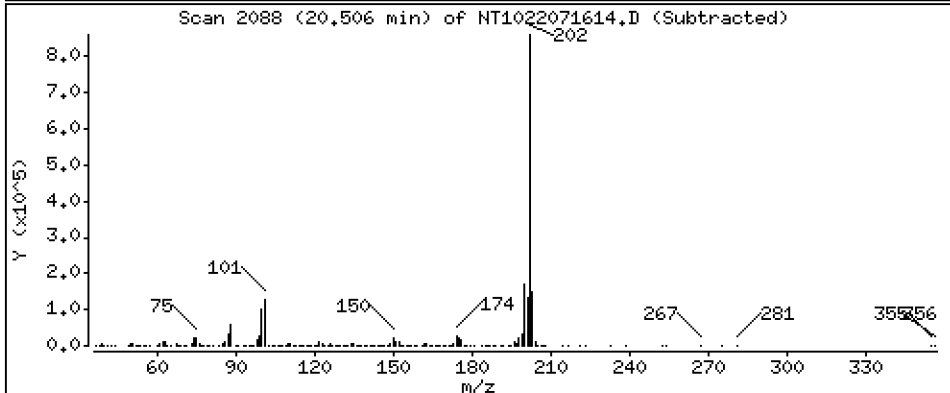
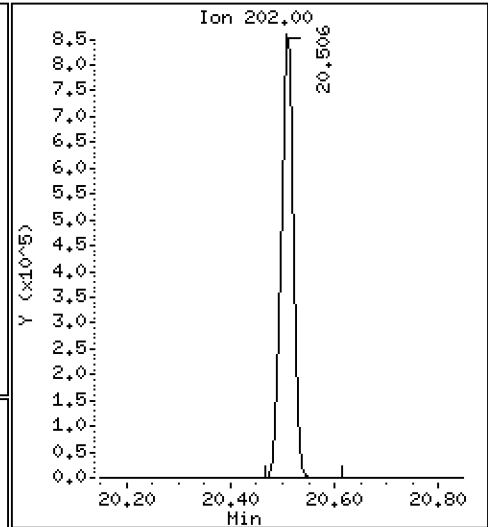
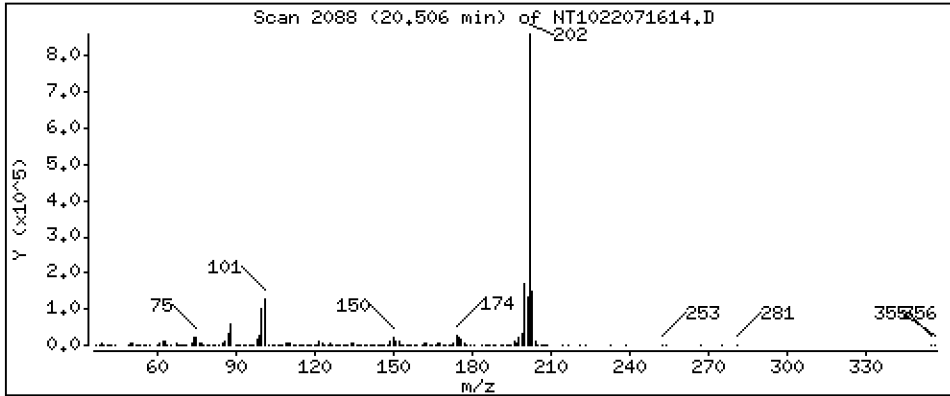
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 7,100 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

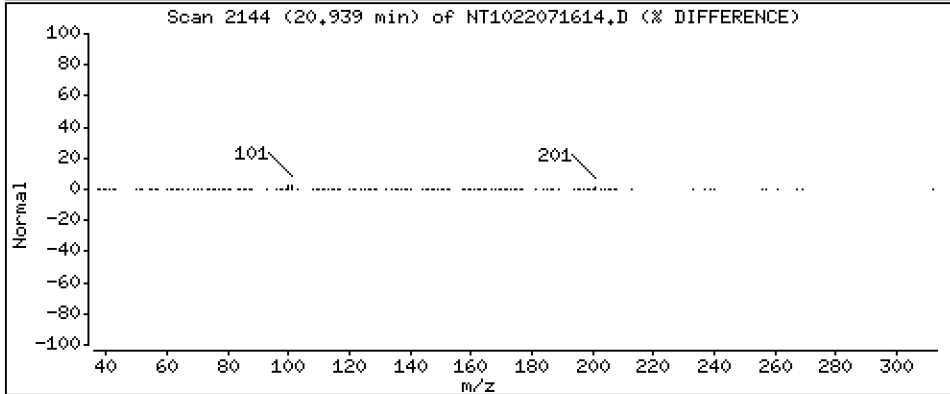
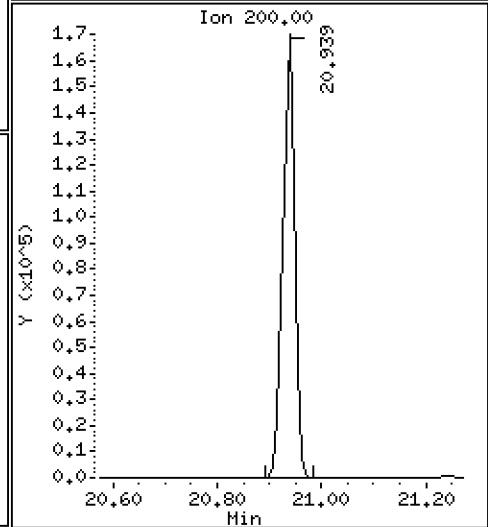
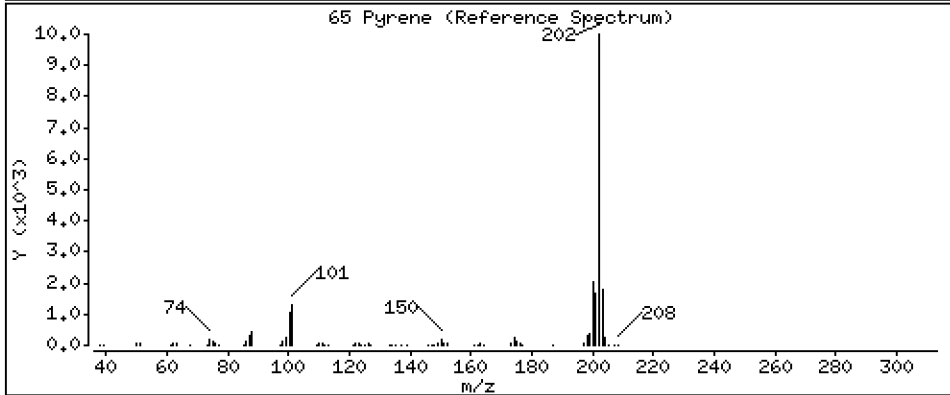
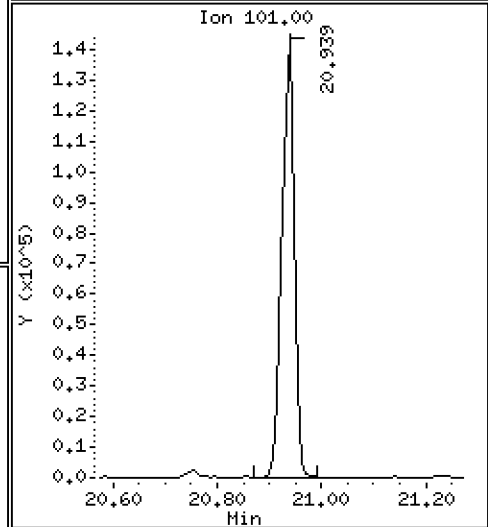
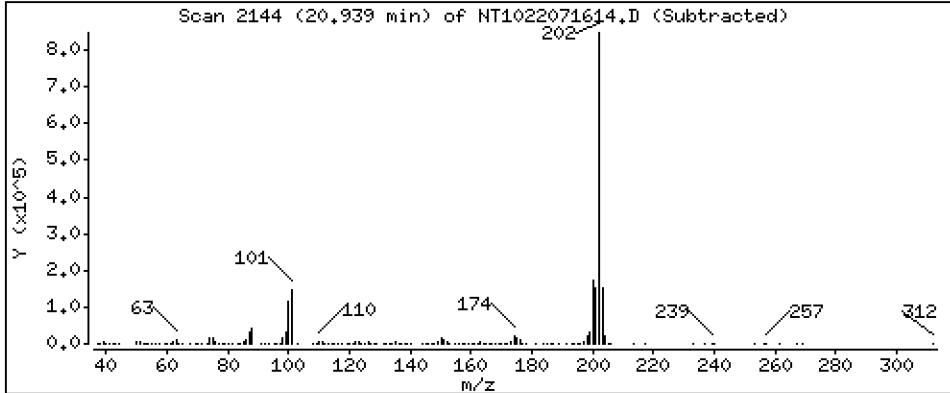
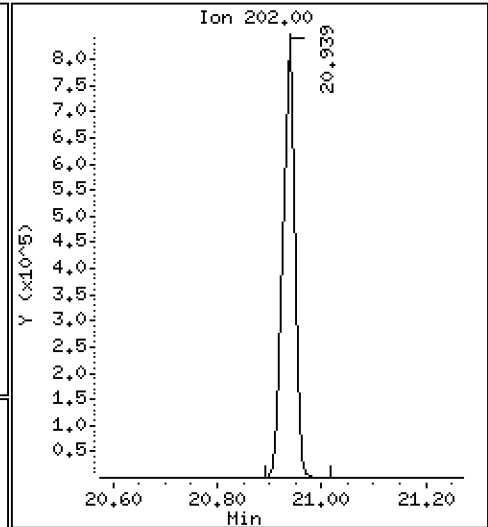
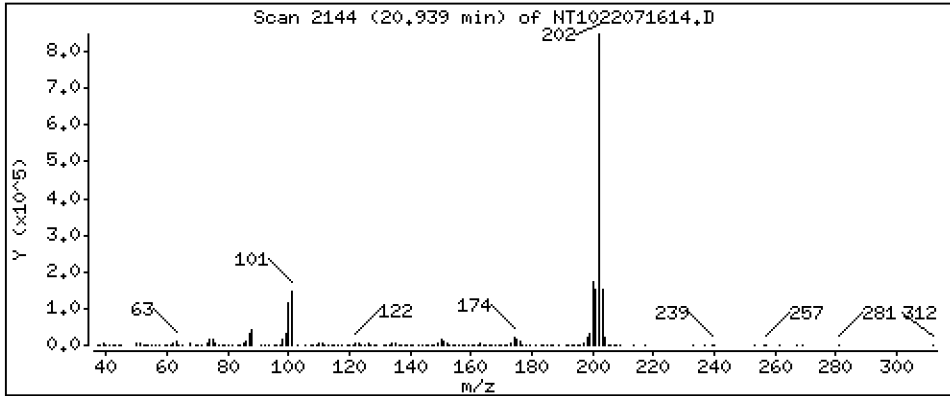
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 7,428 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

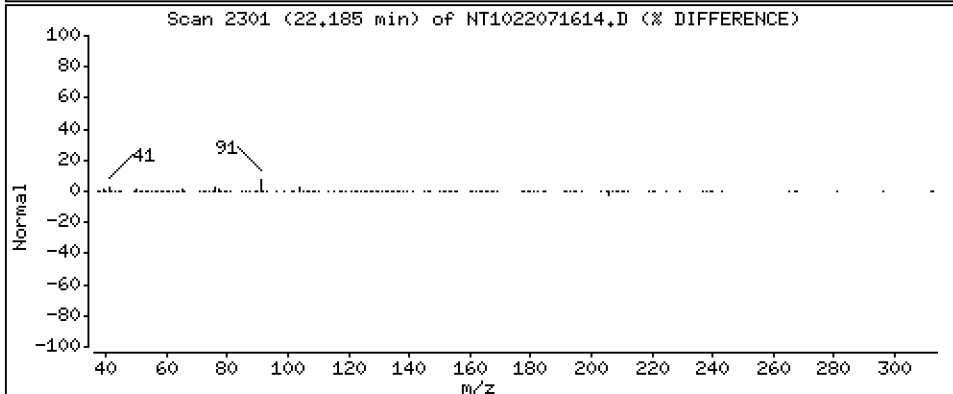
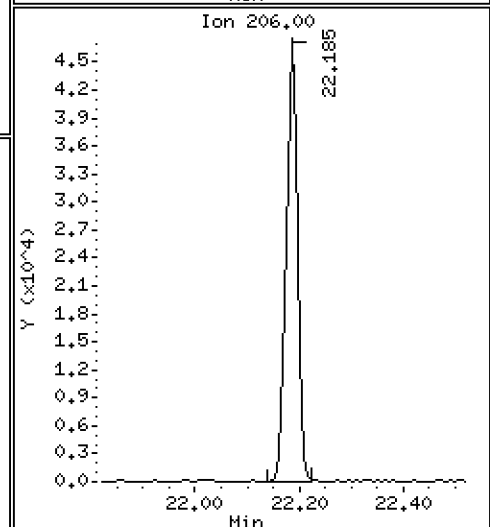
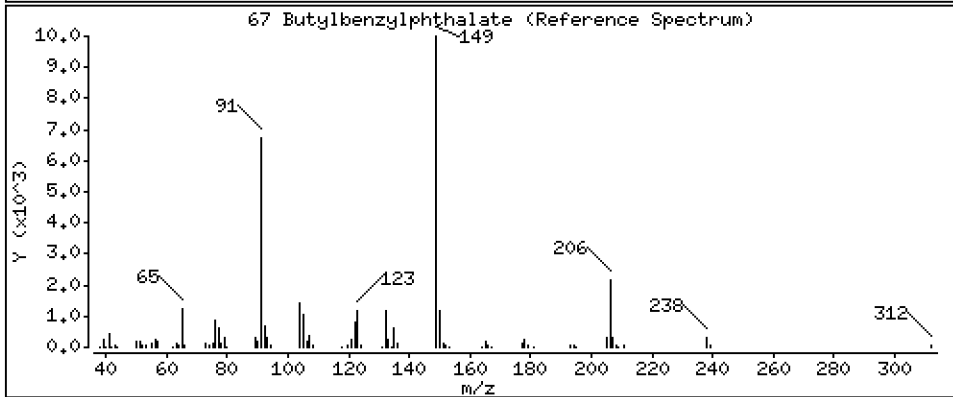
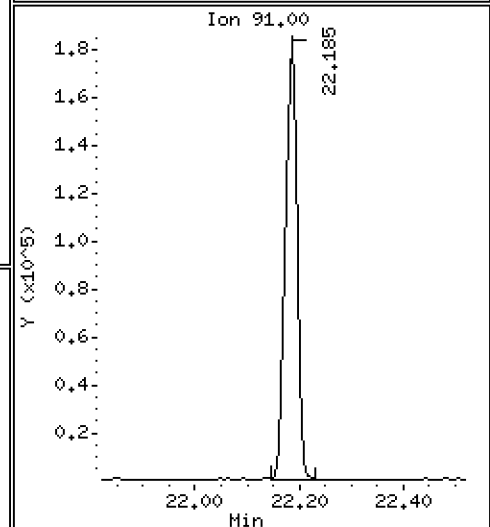
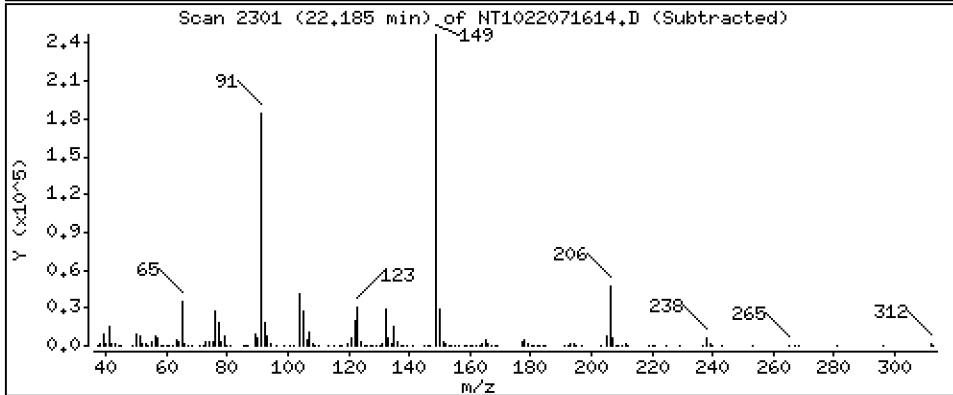
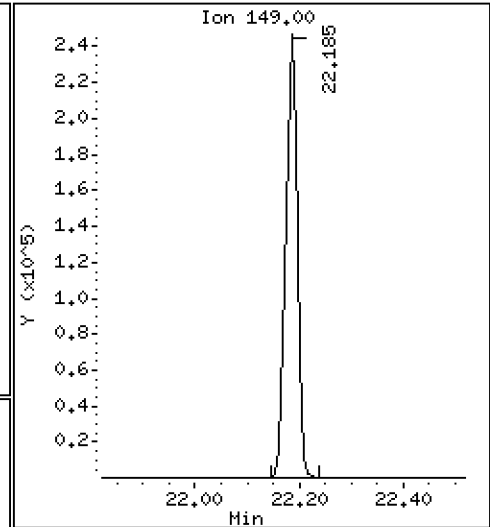
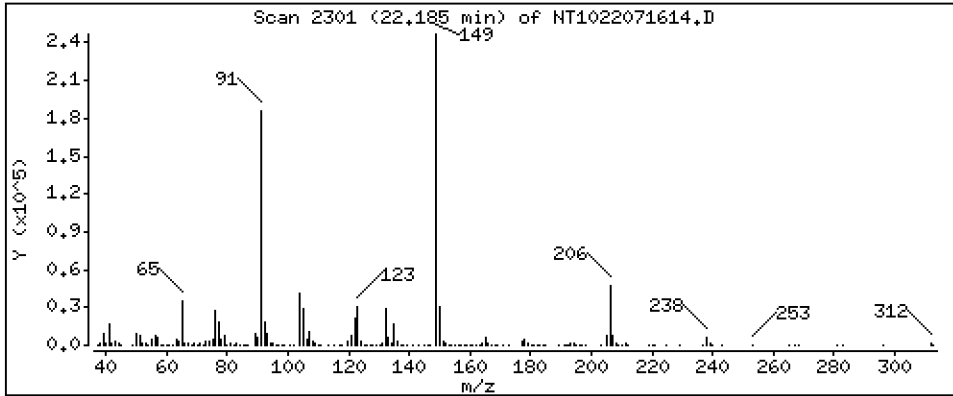
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 6,916 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

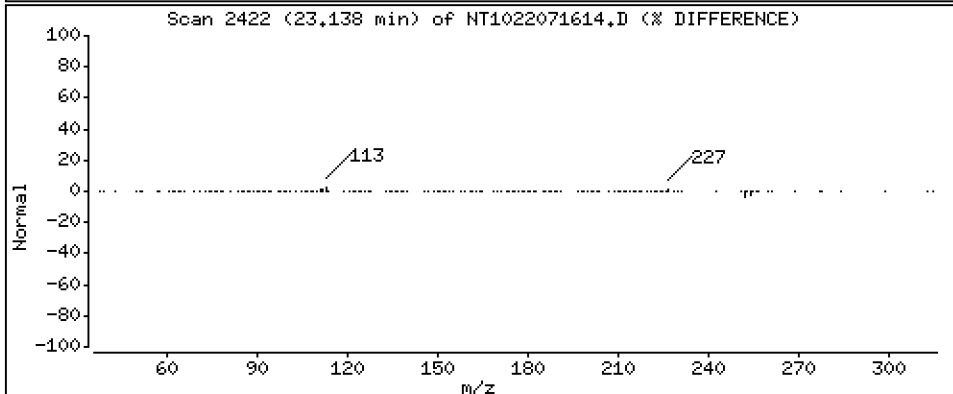
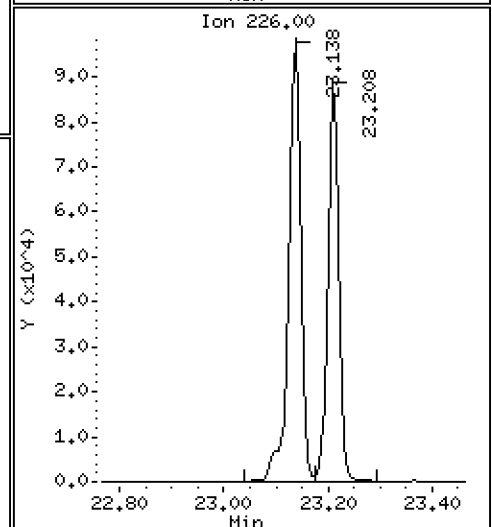
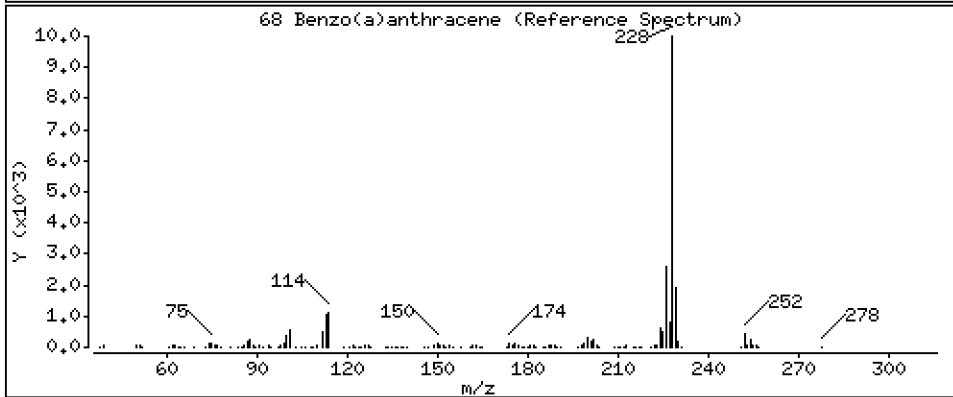
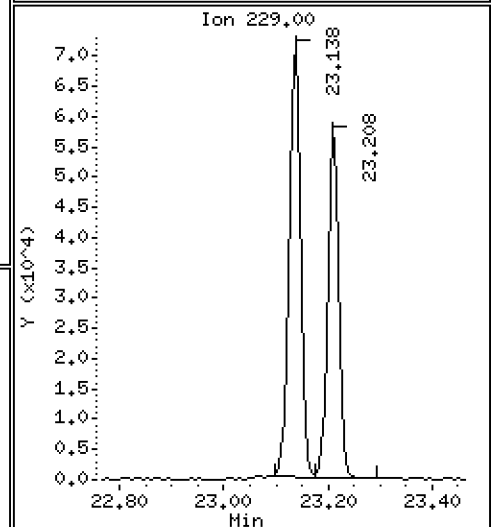
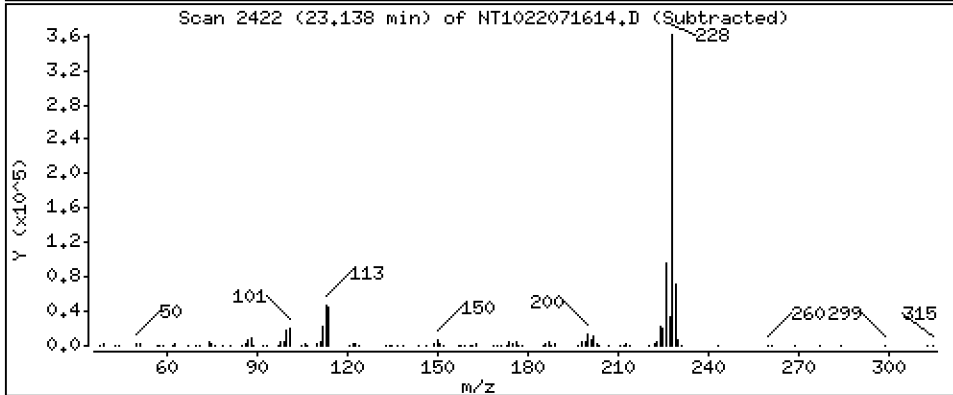
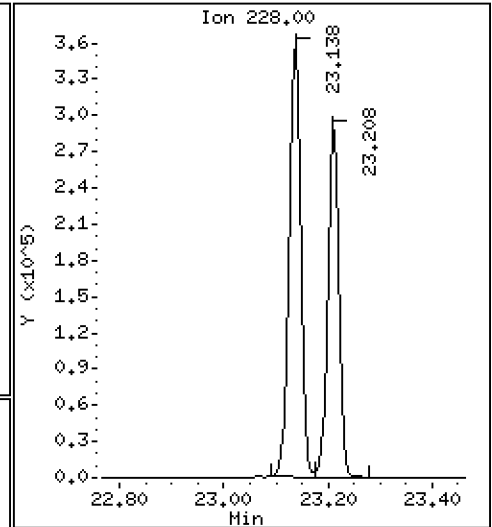
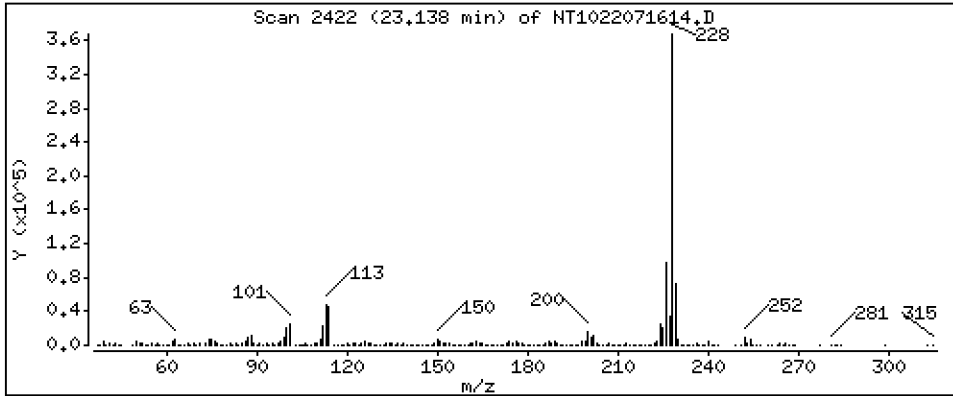
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 5,222 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

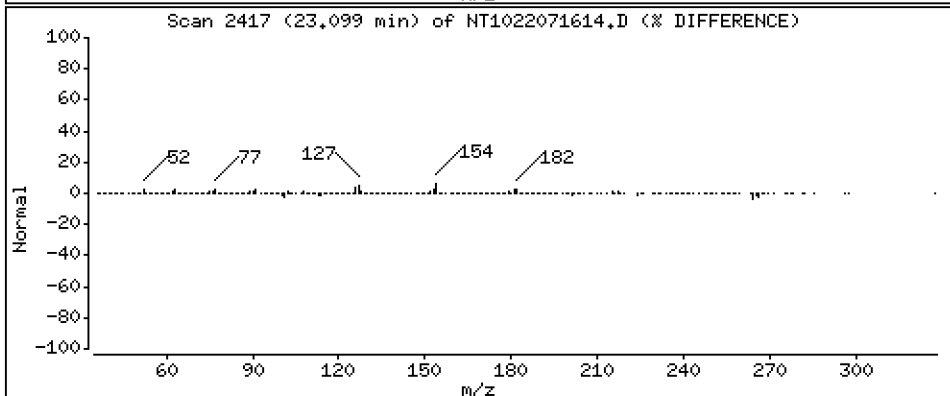
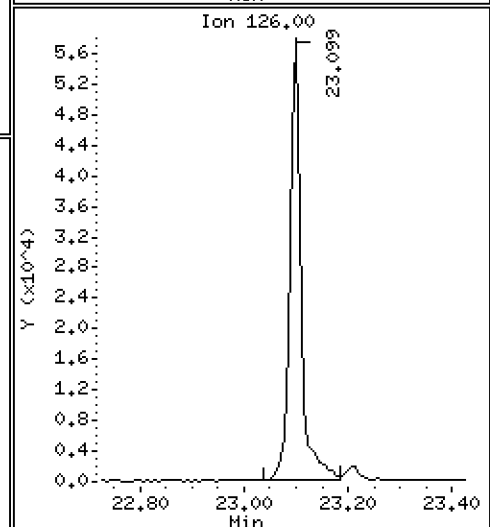
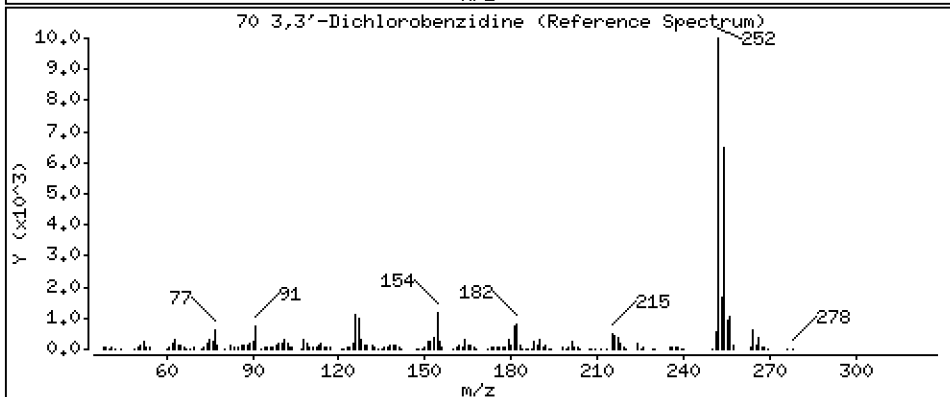
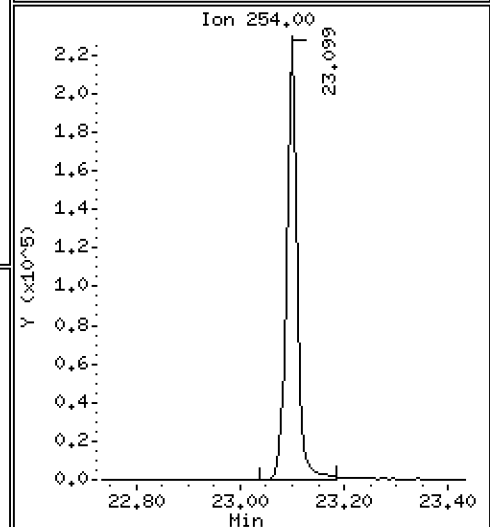
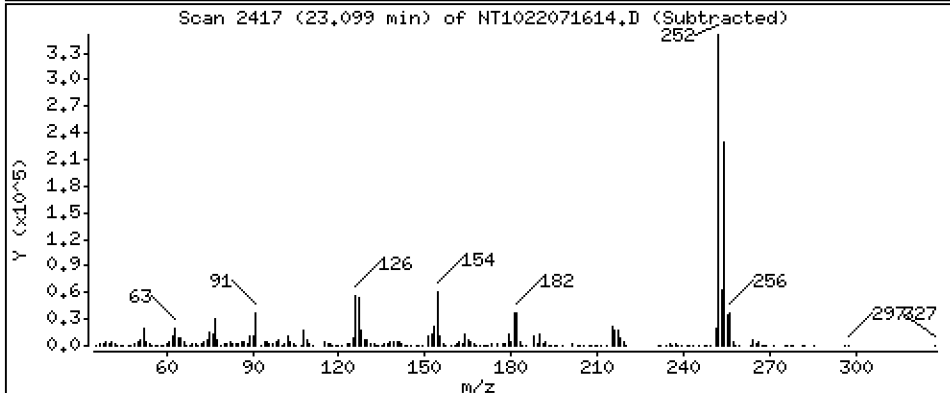
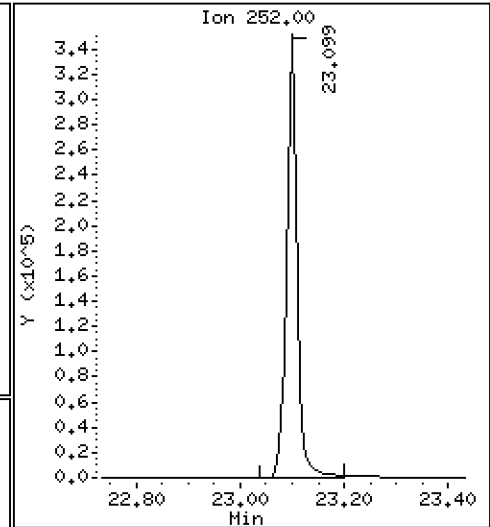
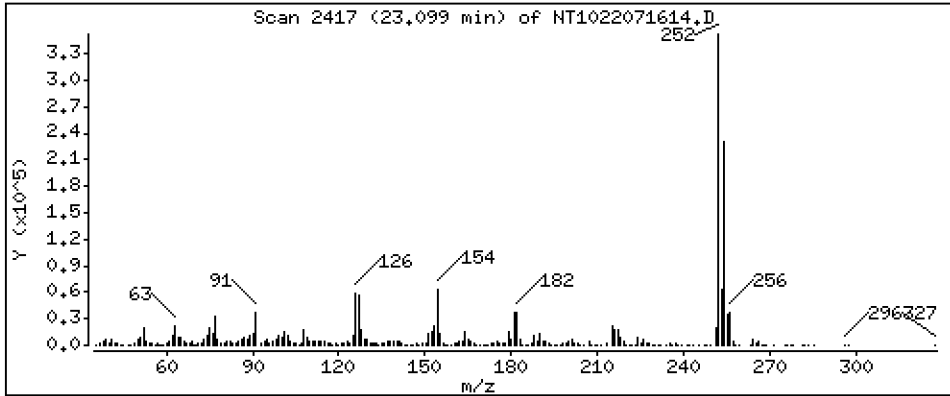
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 13,68 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

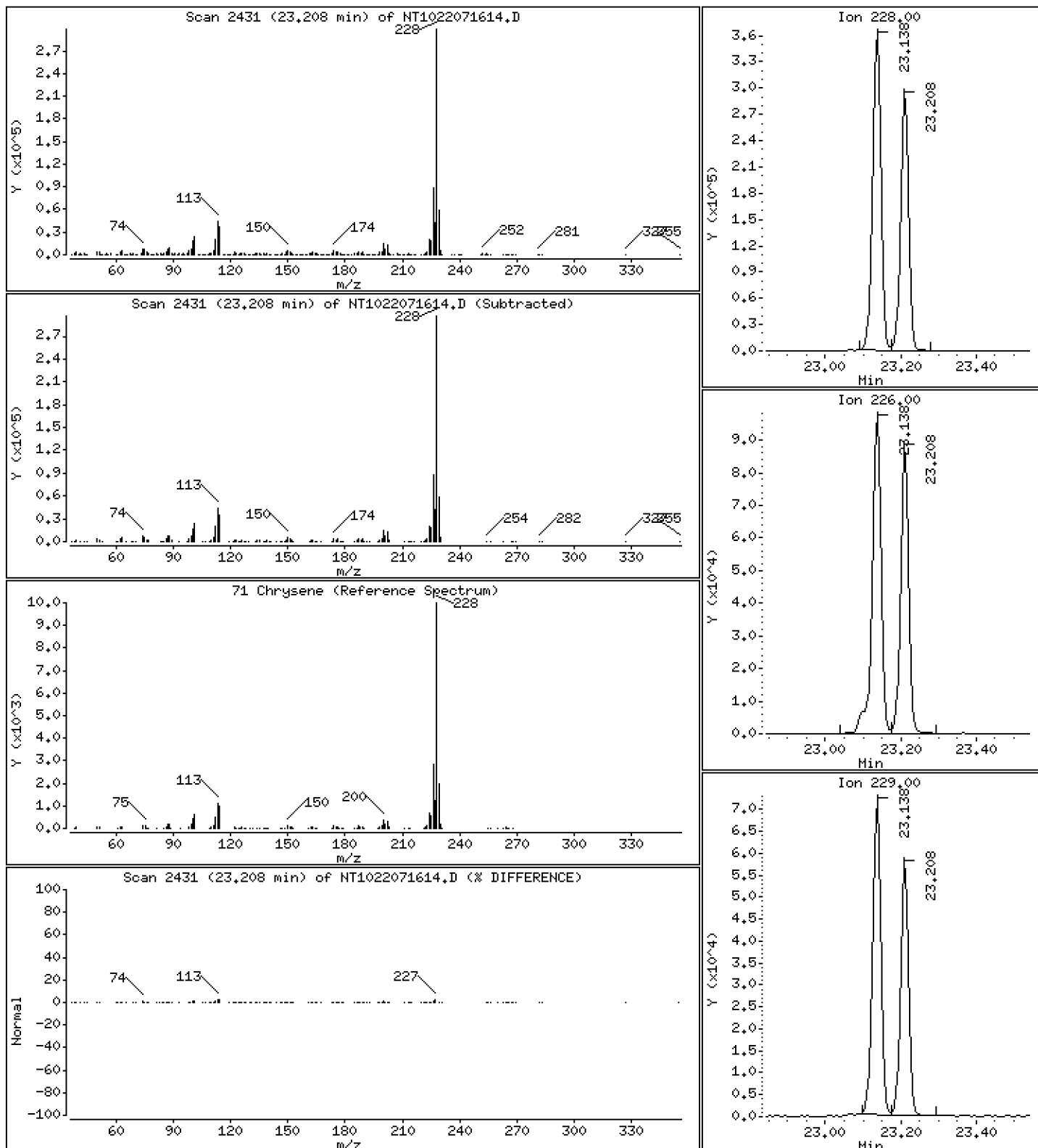
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 5,629 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

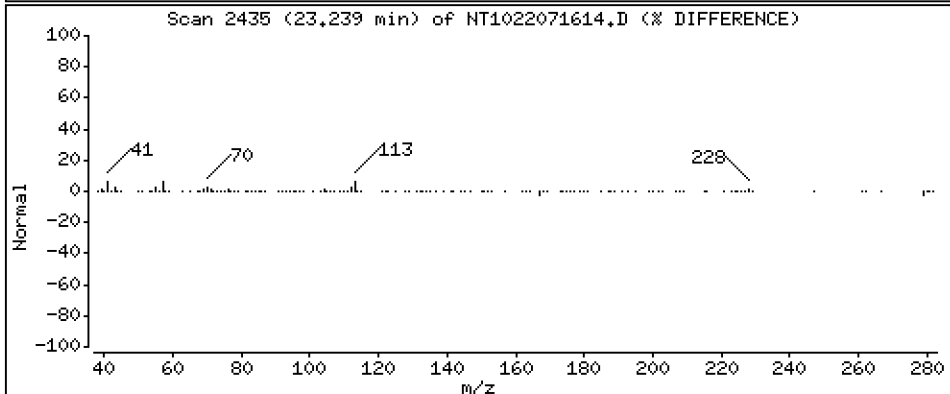
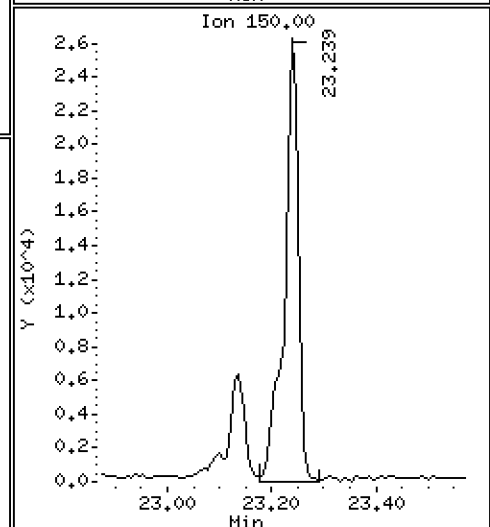
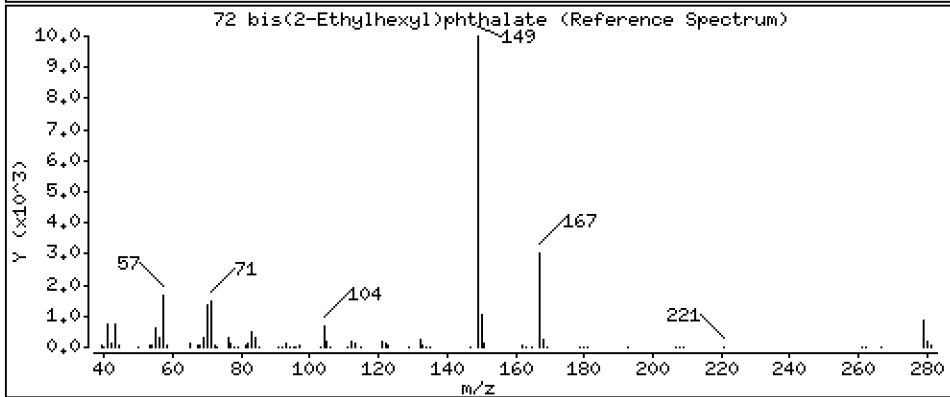
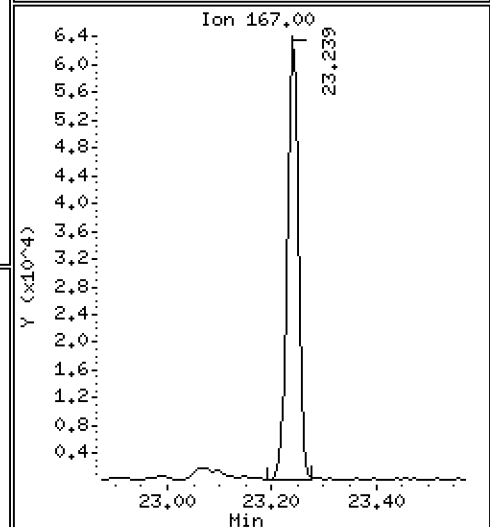
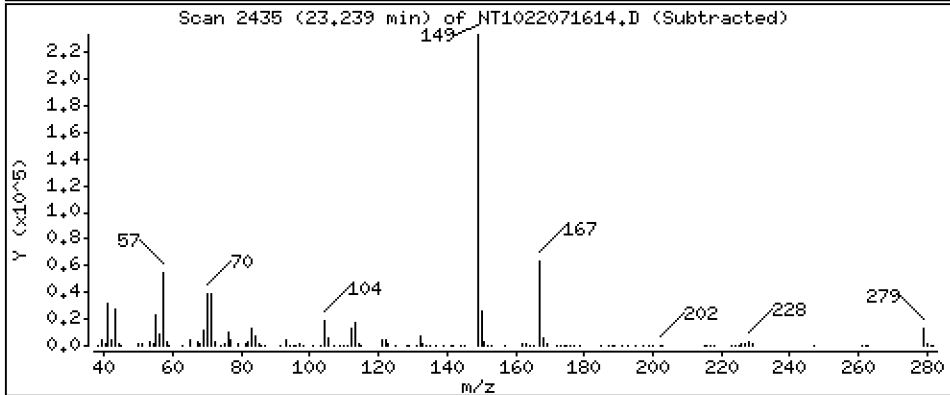
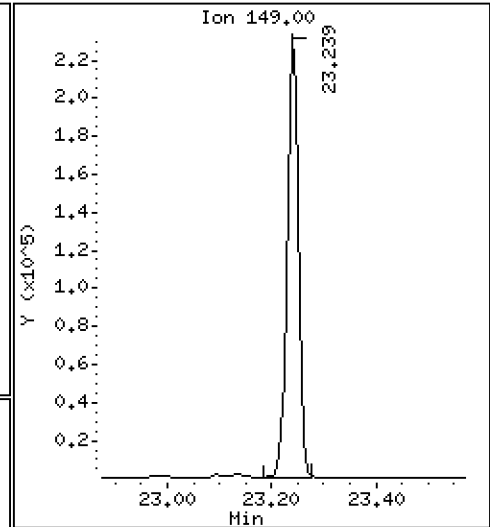
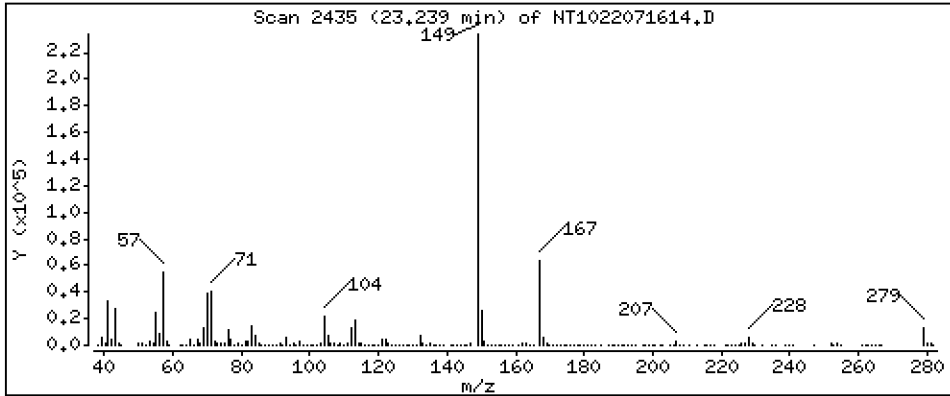
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 7,058 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

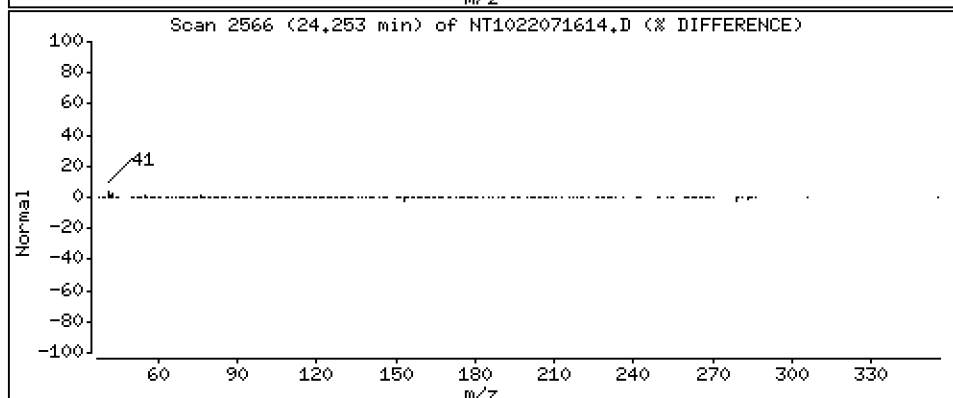
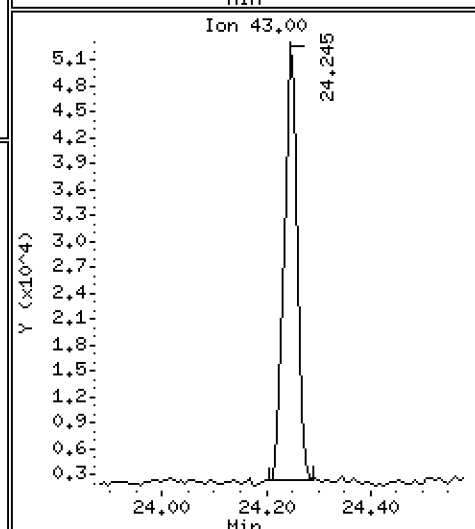
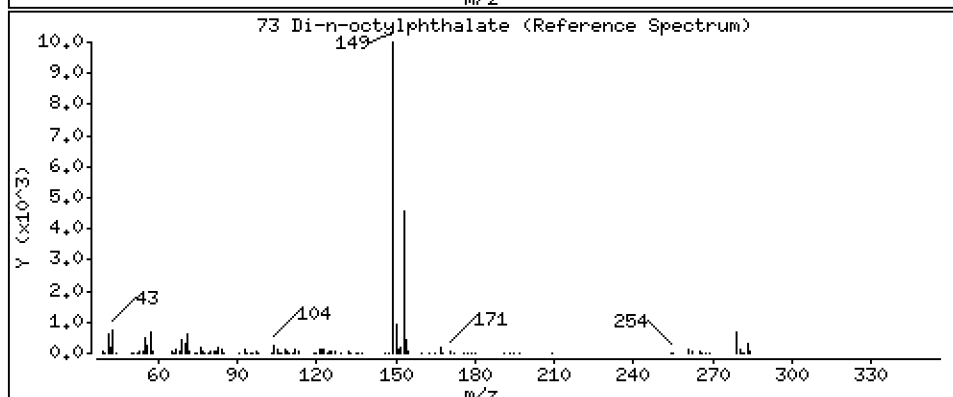
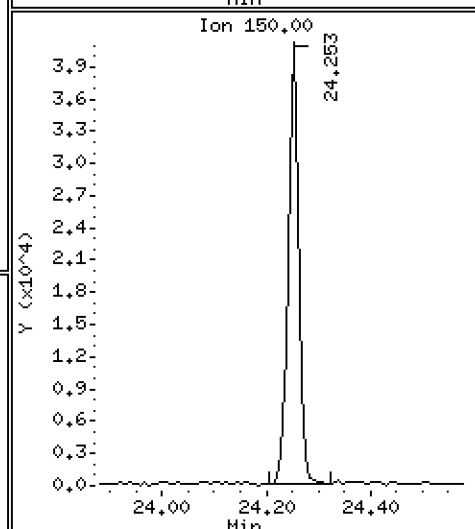
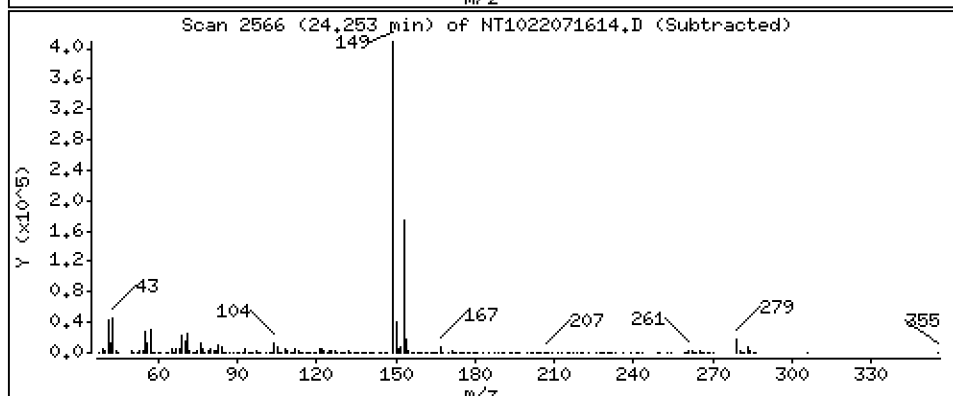
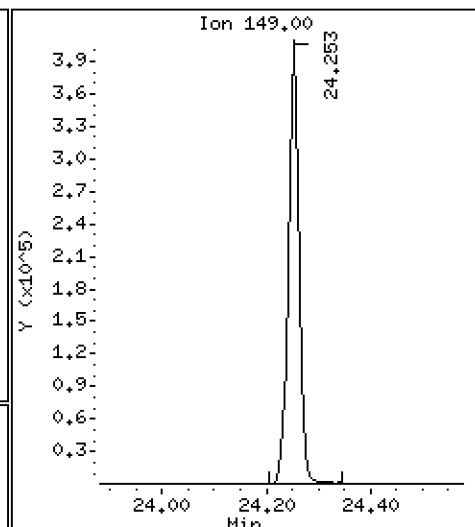
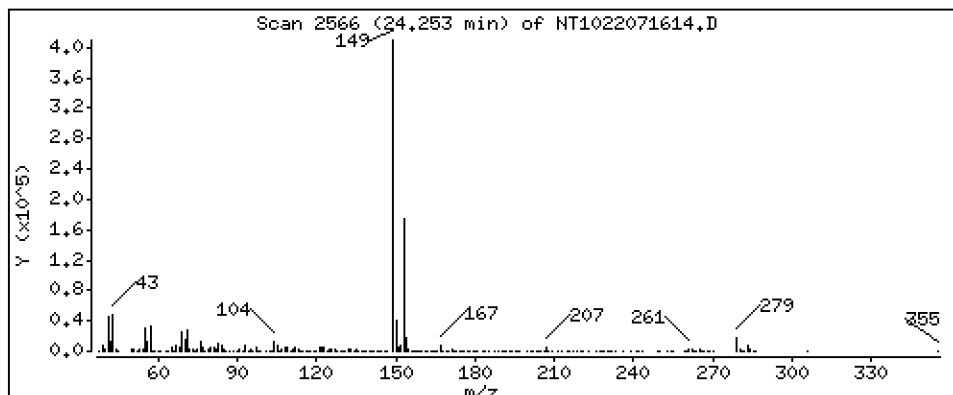
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,635 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

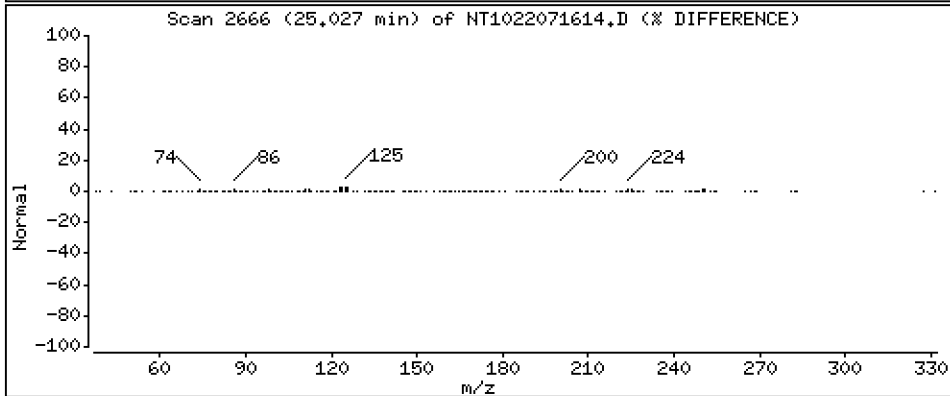
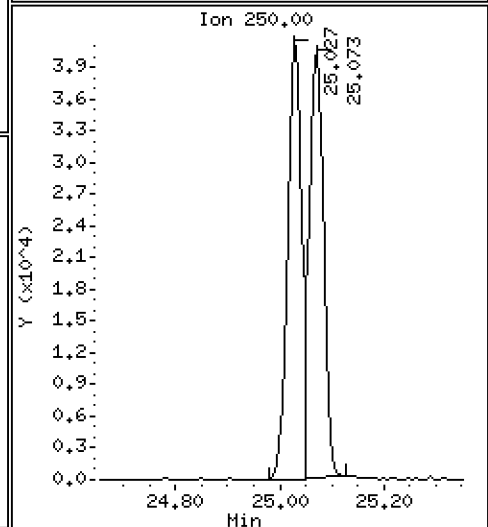
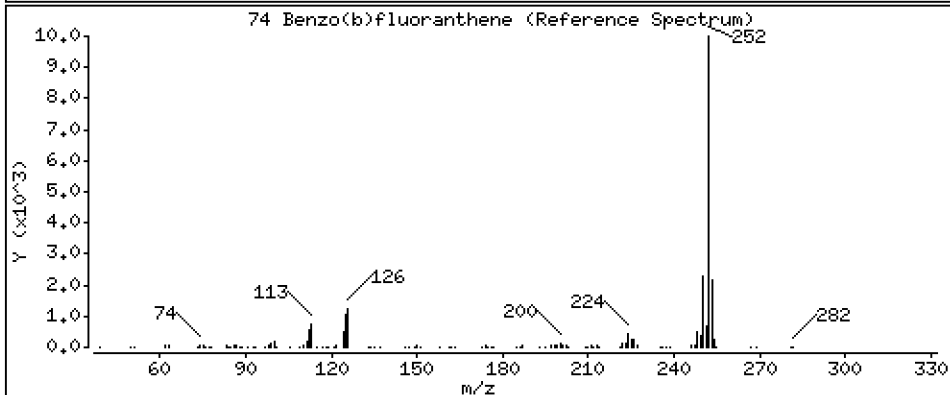
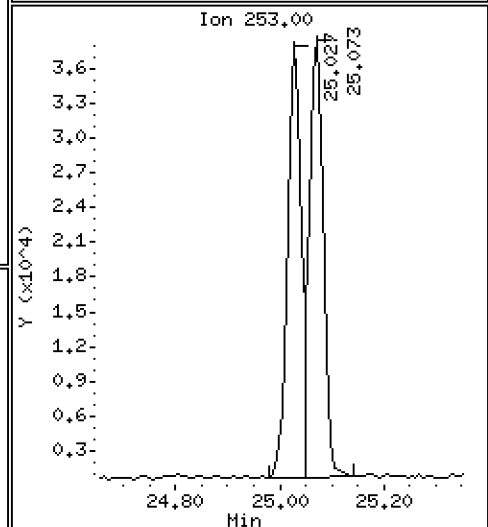
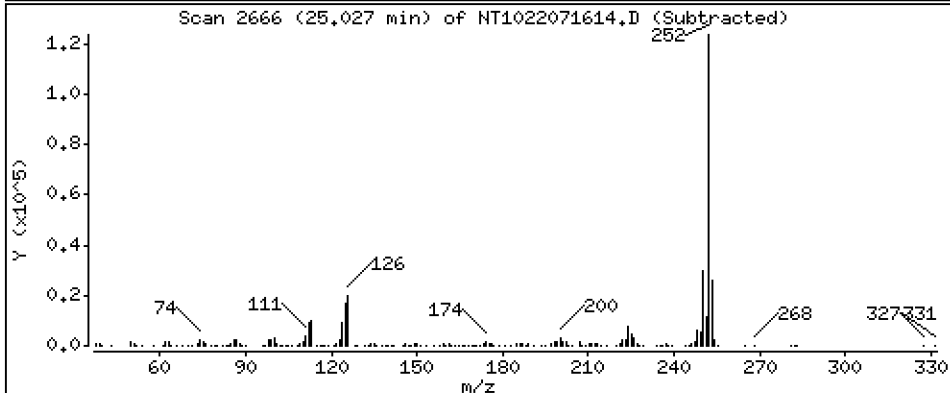
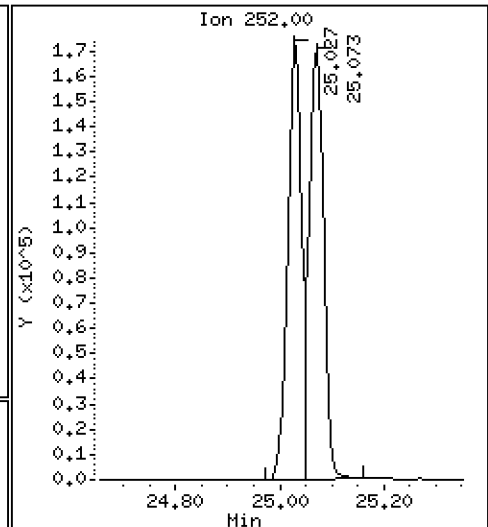
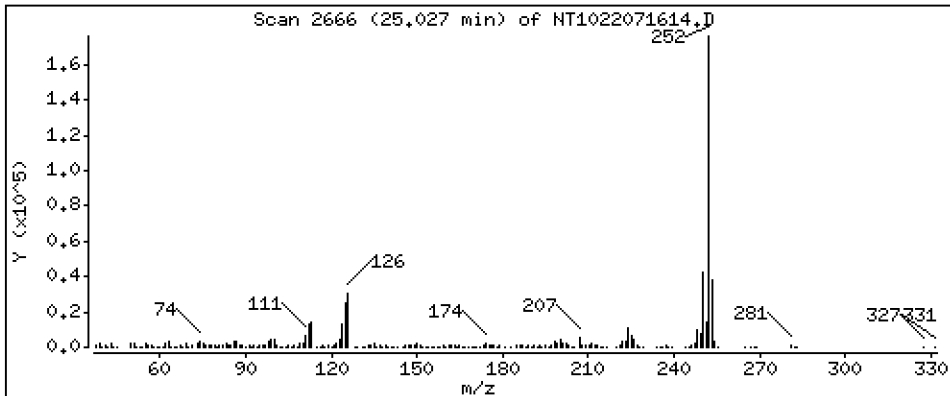
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 5,928 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

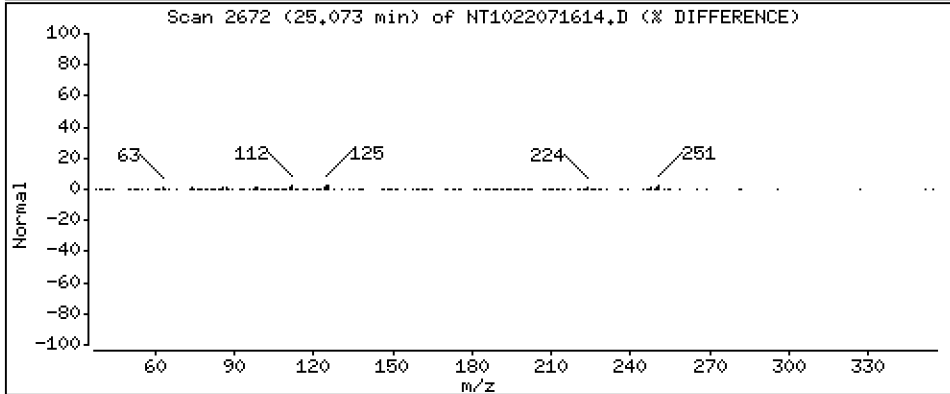
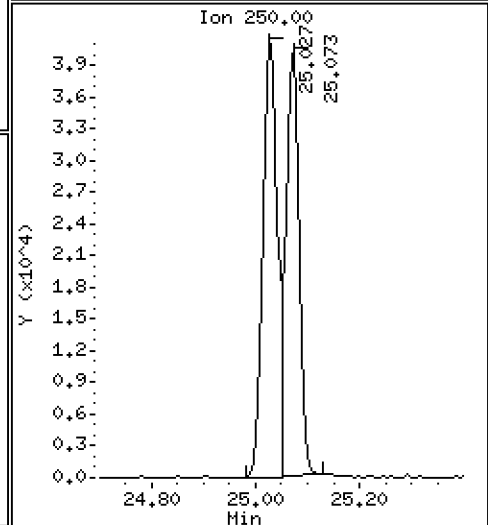
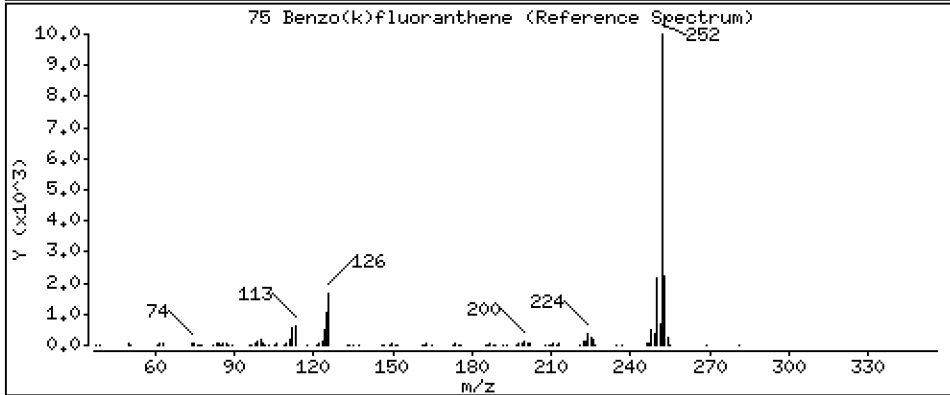
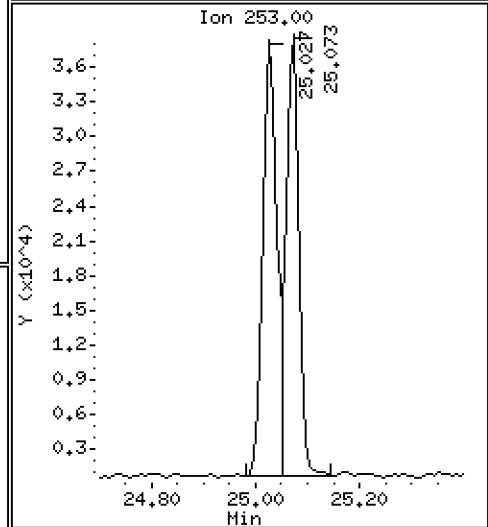
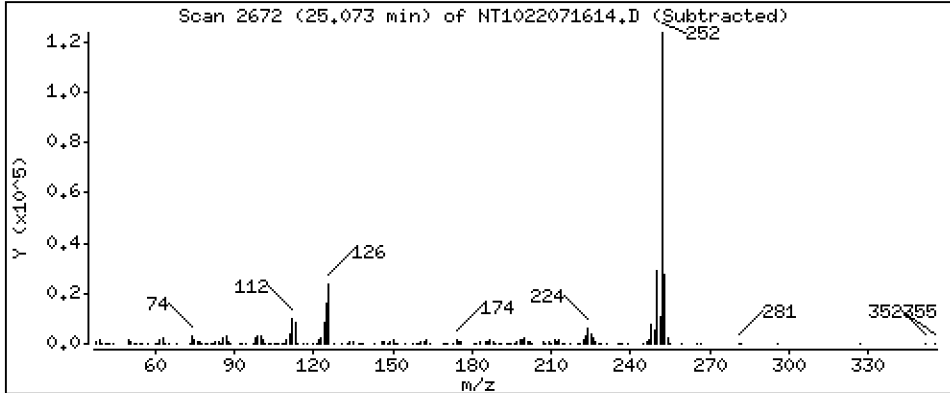
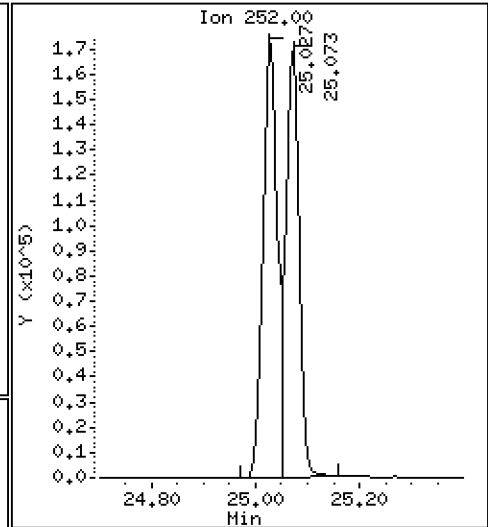
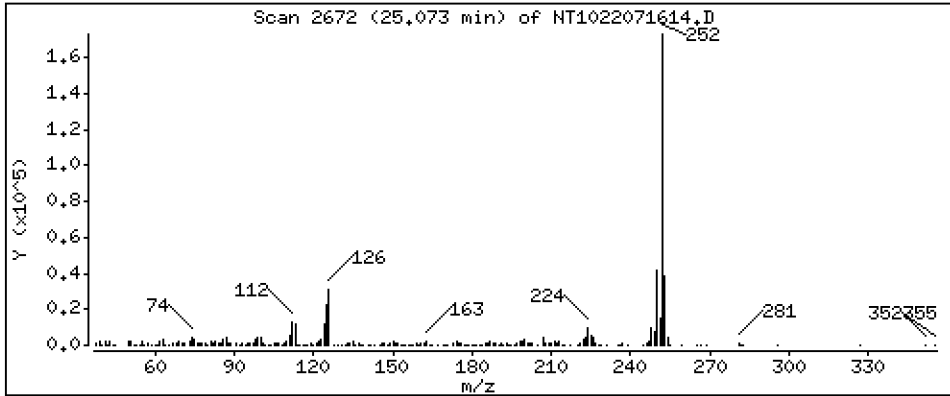
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 5,854 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

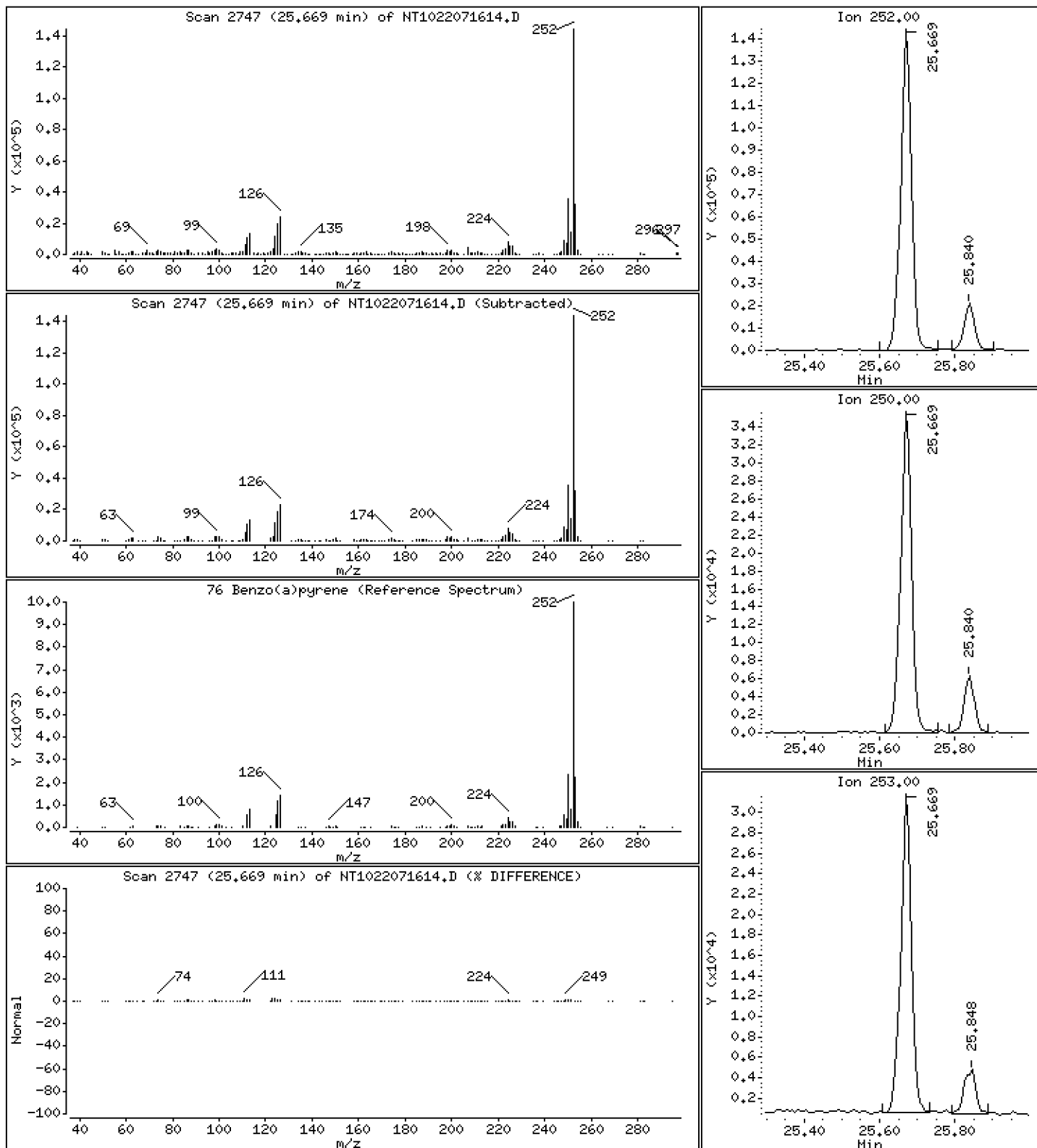
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 6,071 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

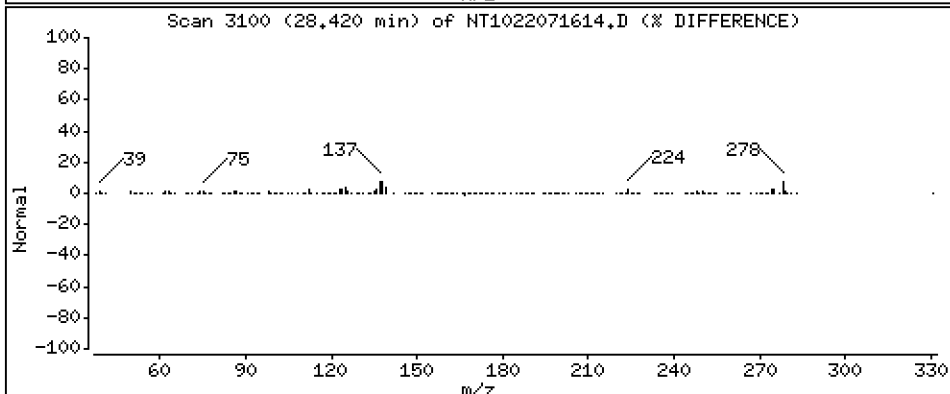
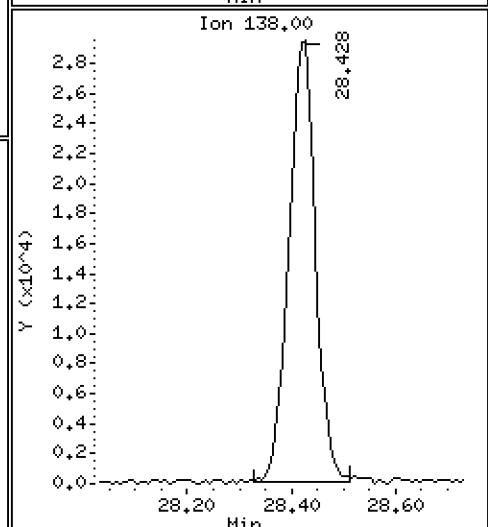
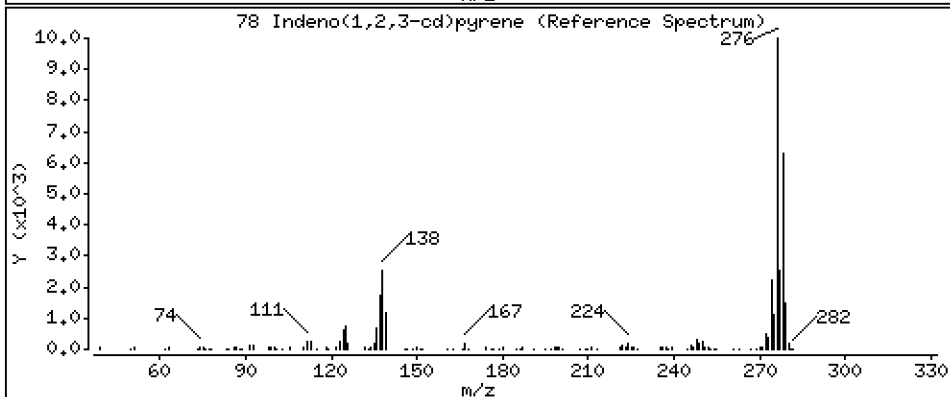
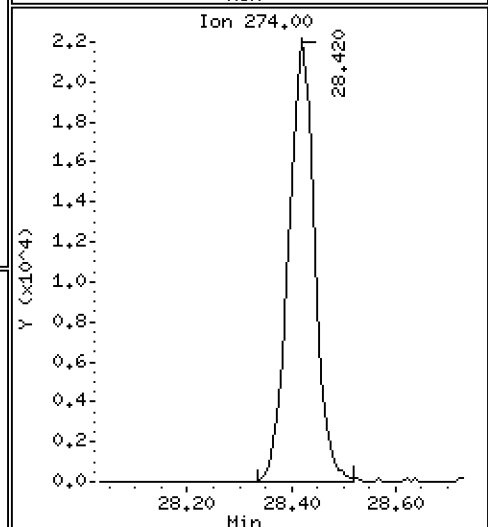
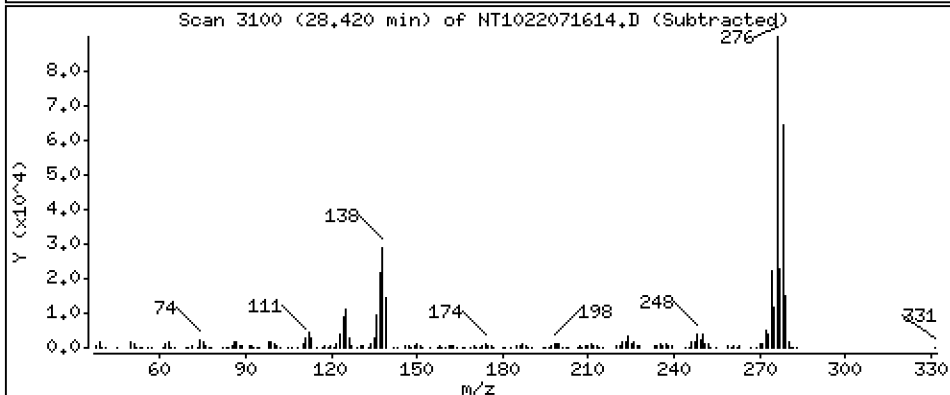
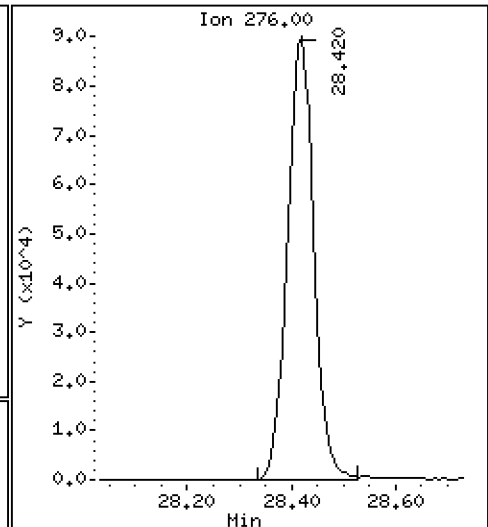
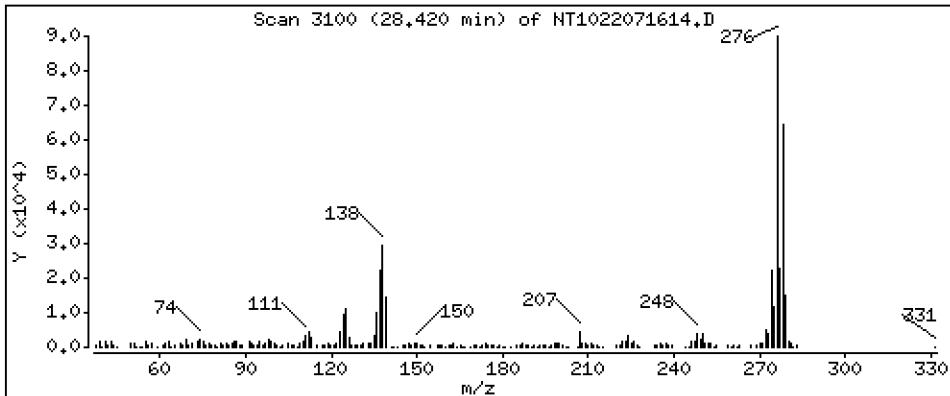
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 6,414 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

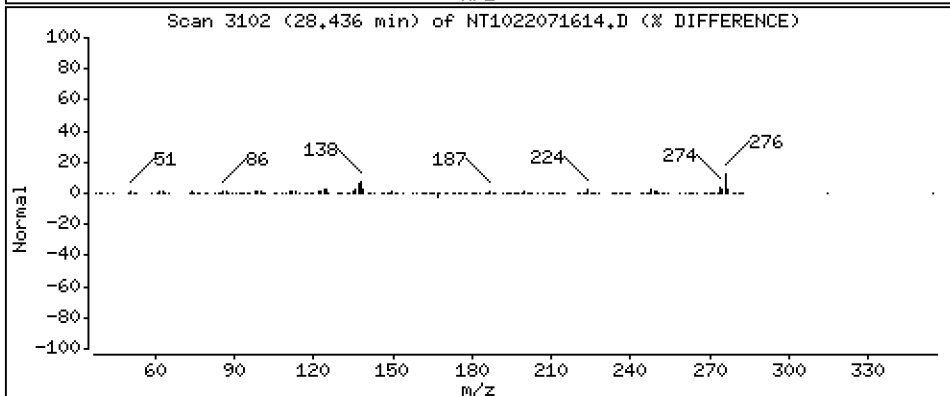
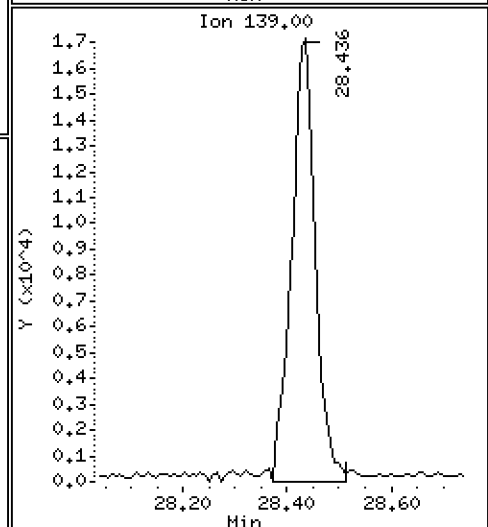
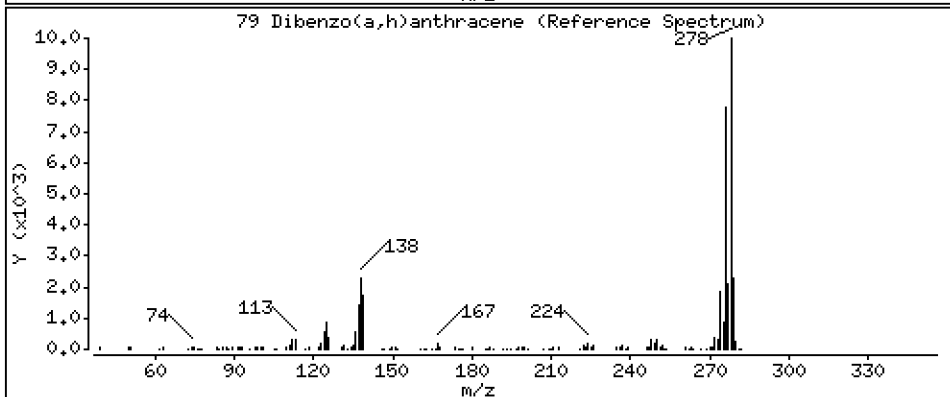
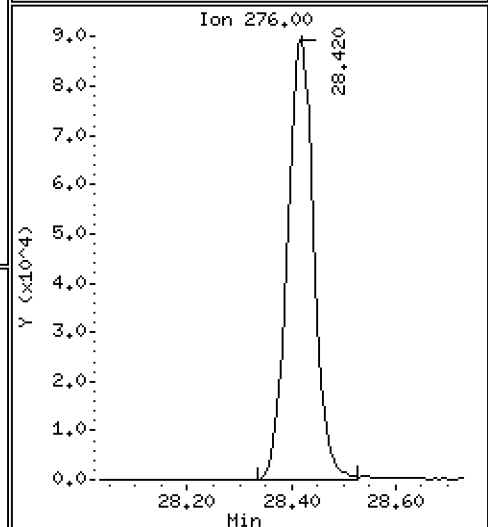
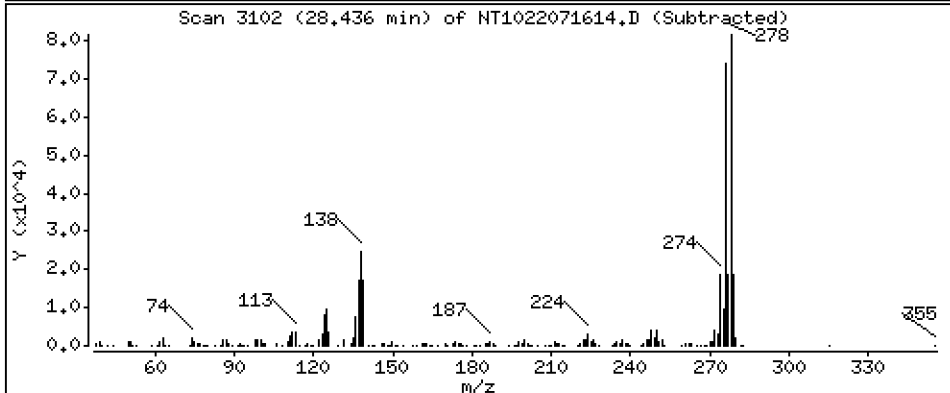
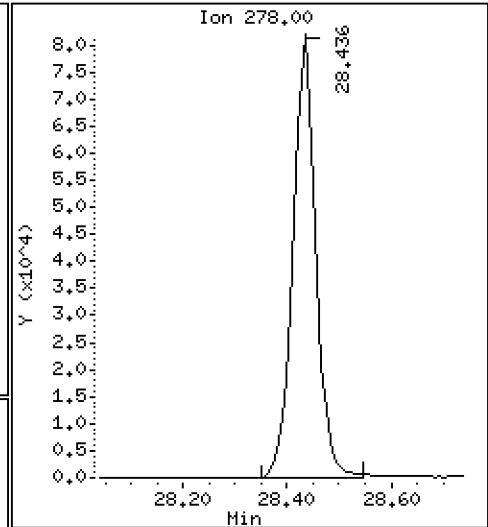
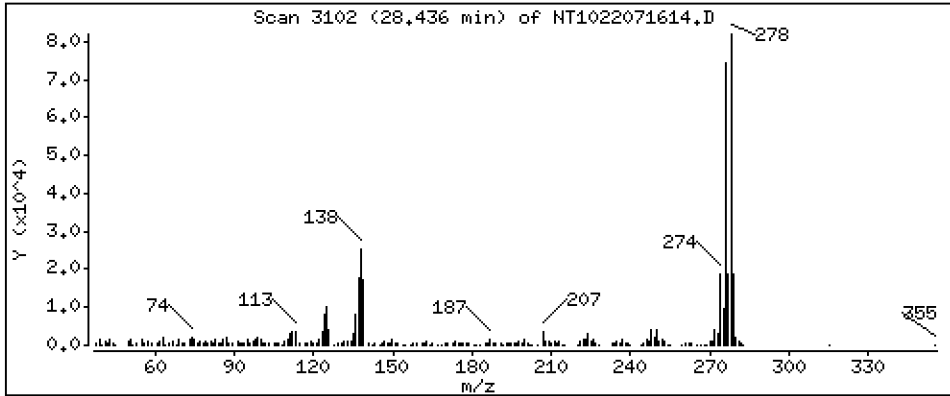
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 6,604 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

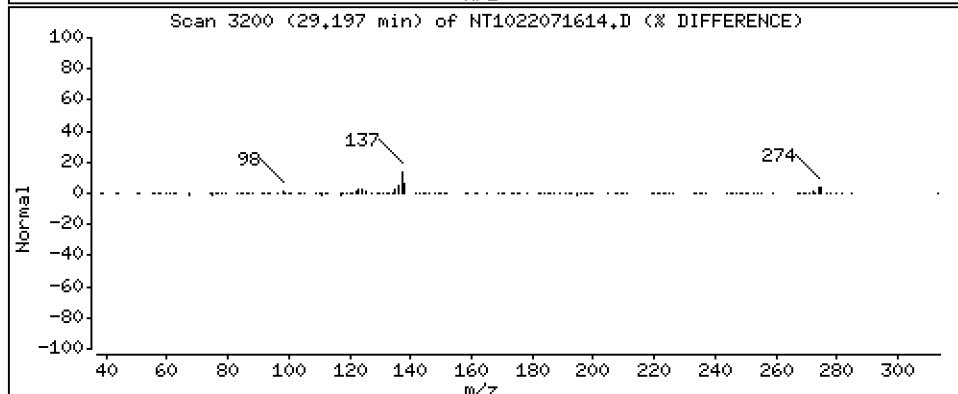
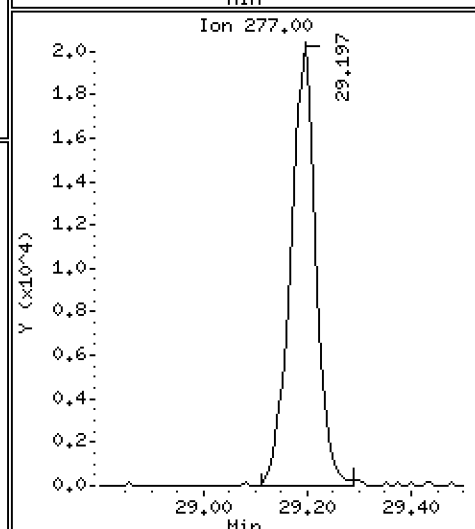
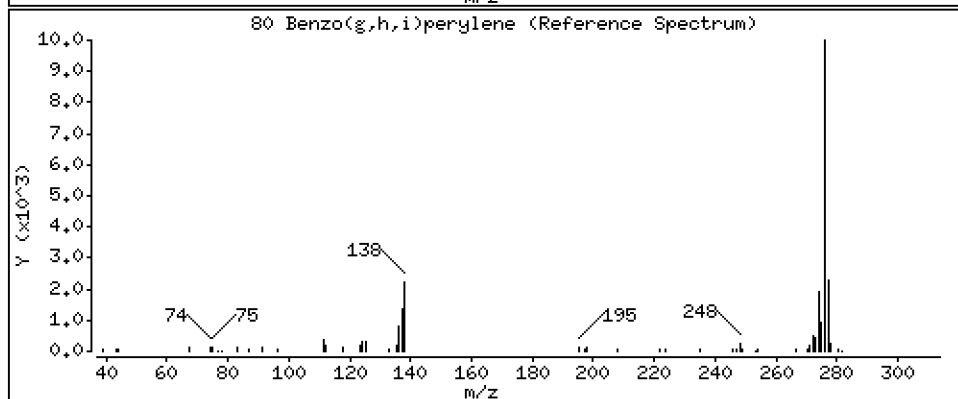
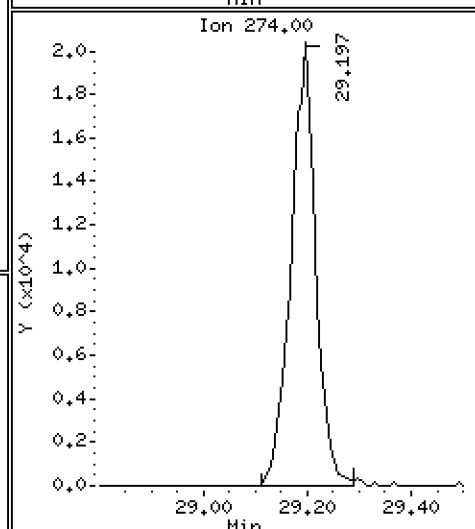
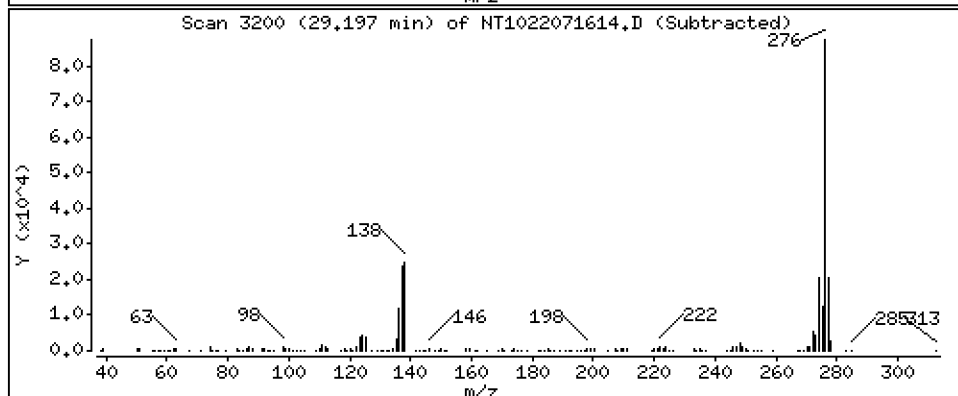
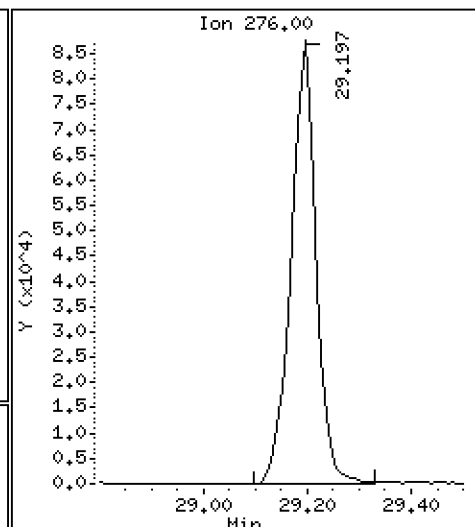
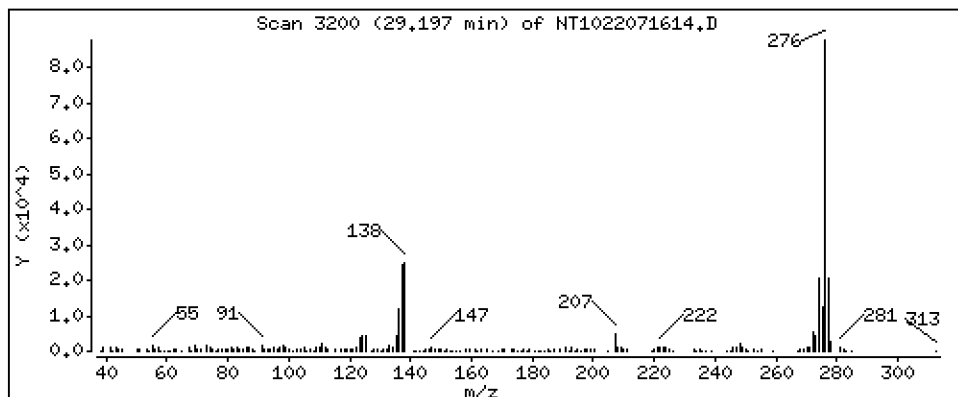
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 7,379 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

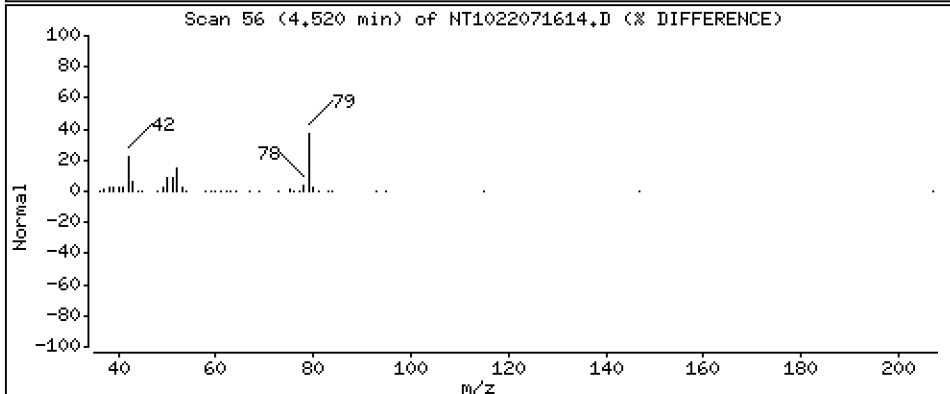
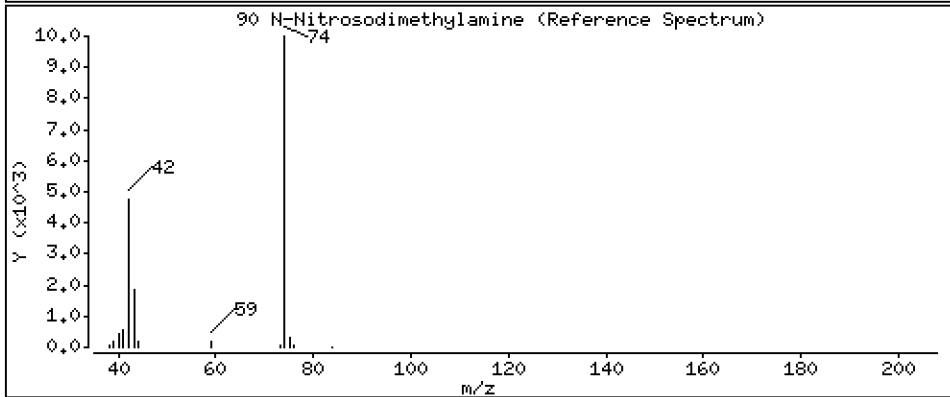
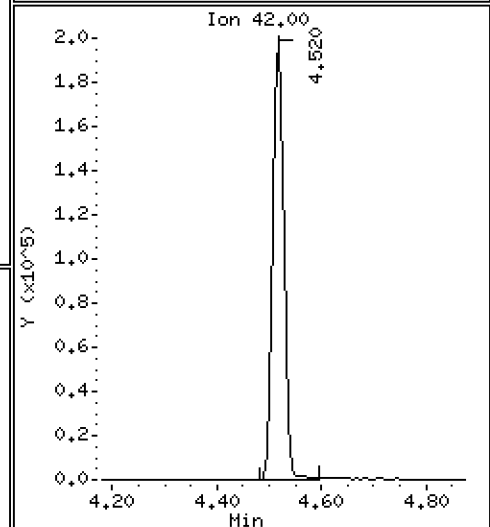
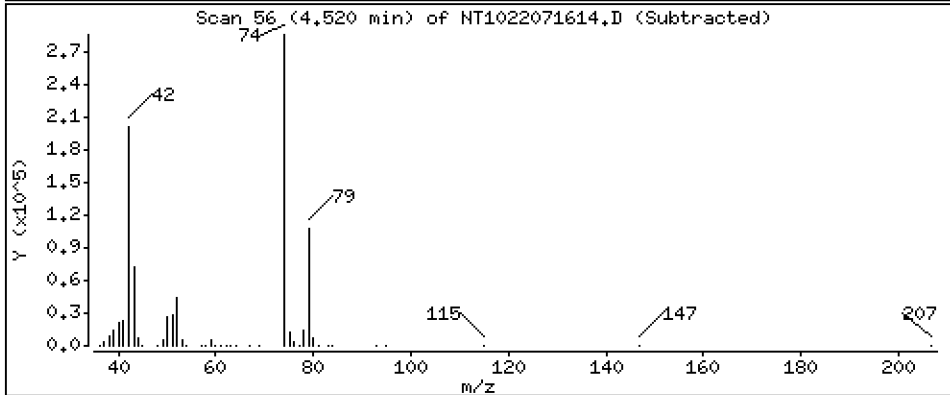
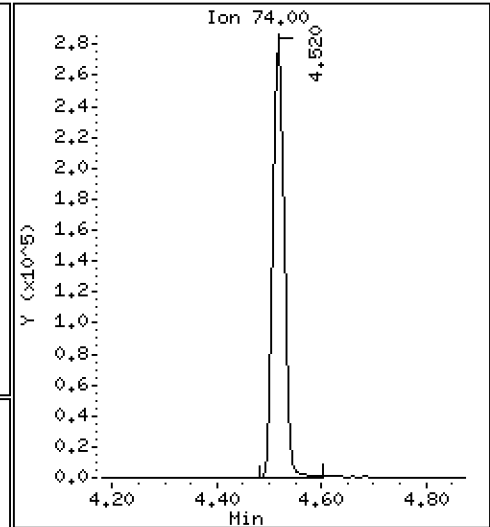
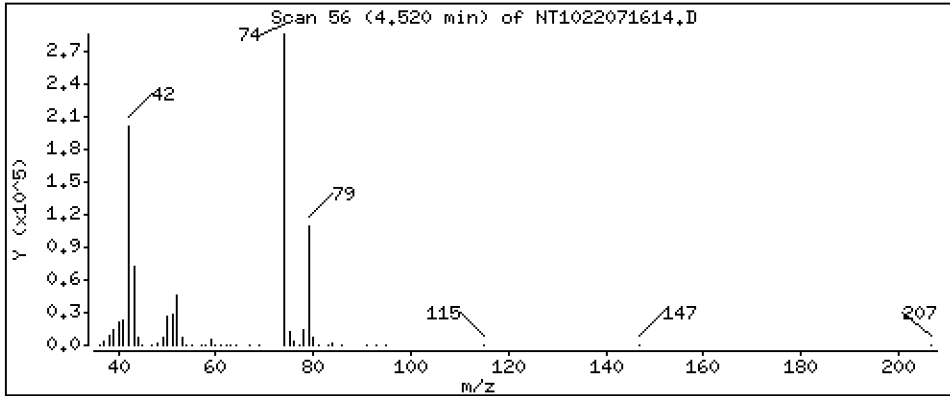
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 8,601 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

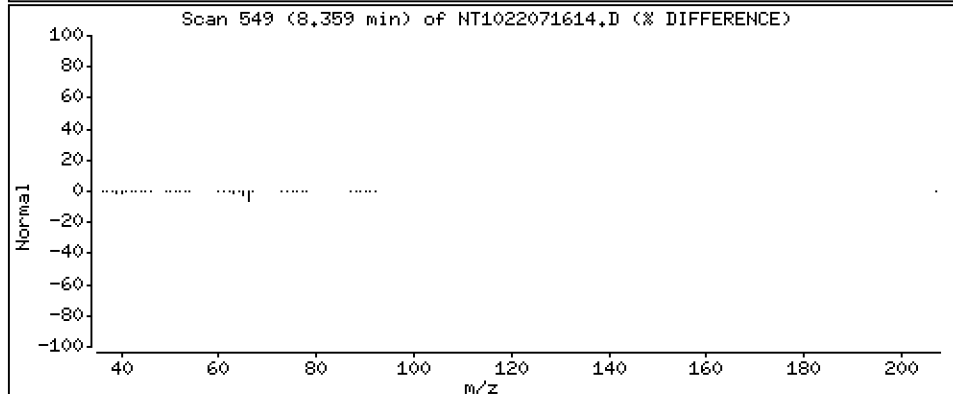
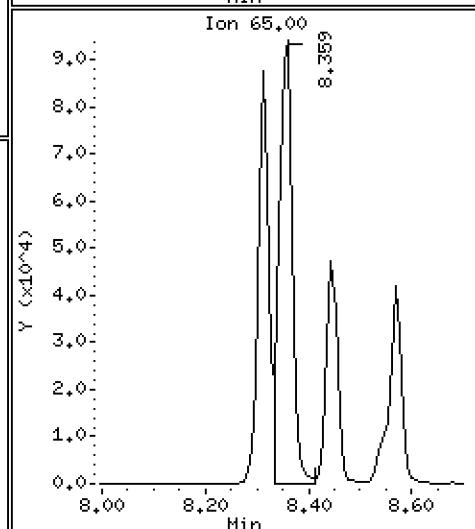
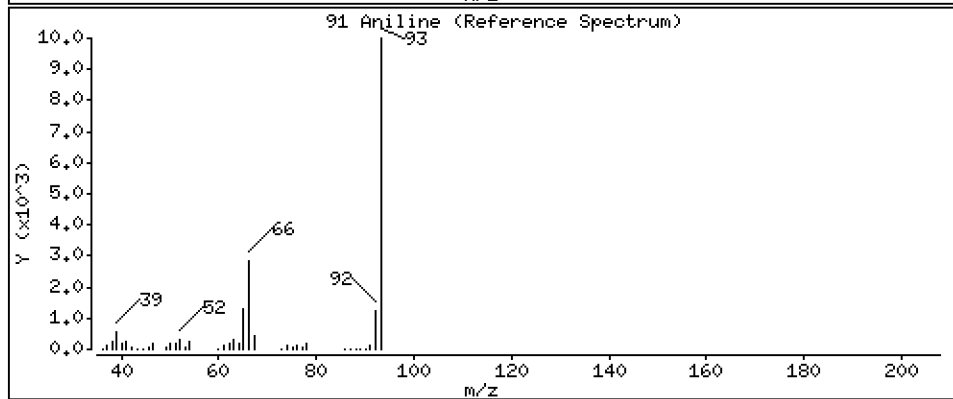
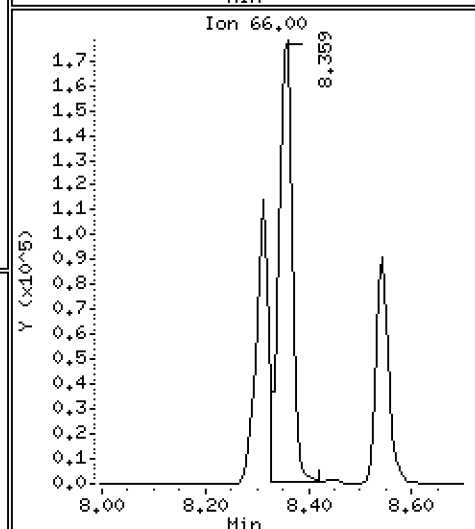
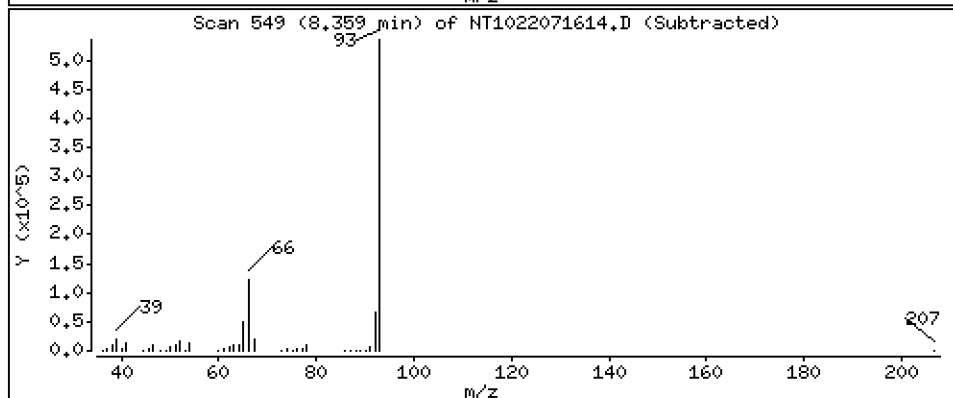
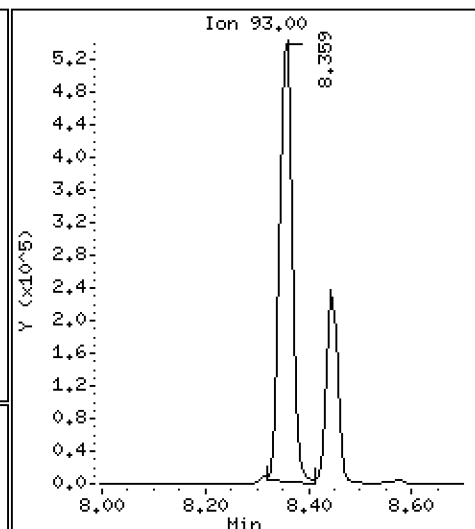
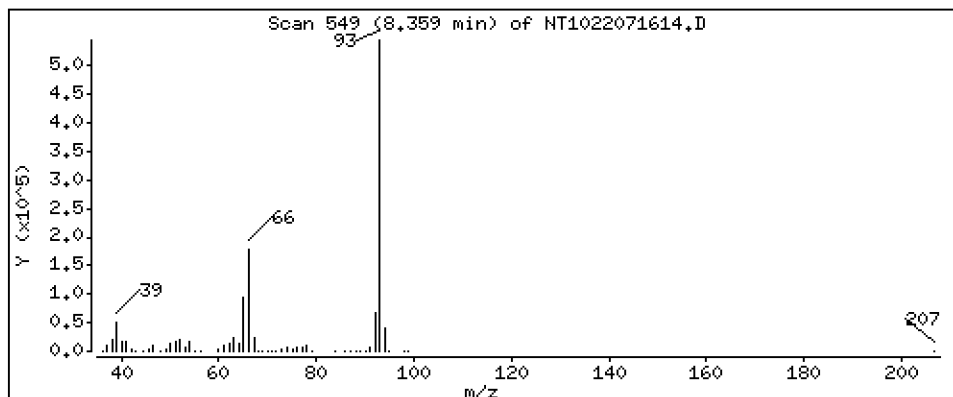
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 9,527 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

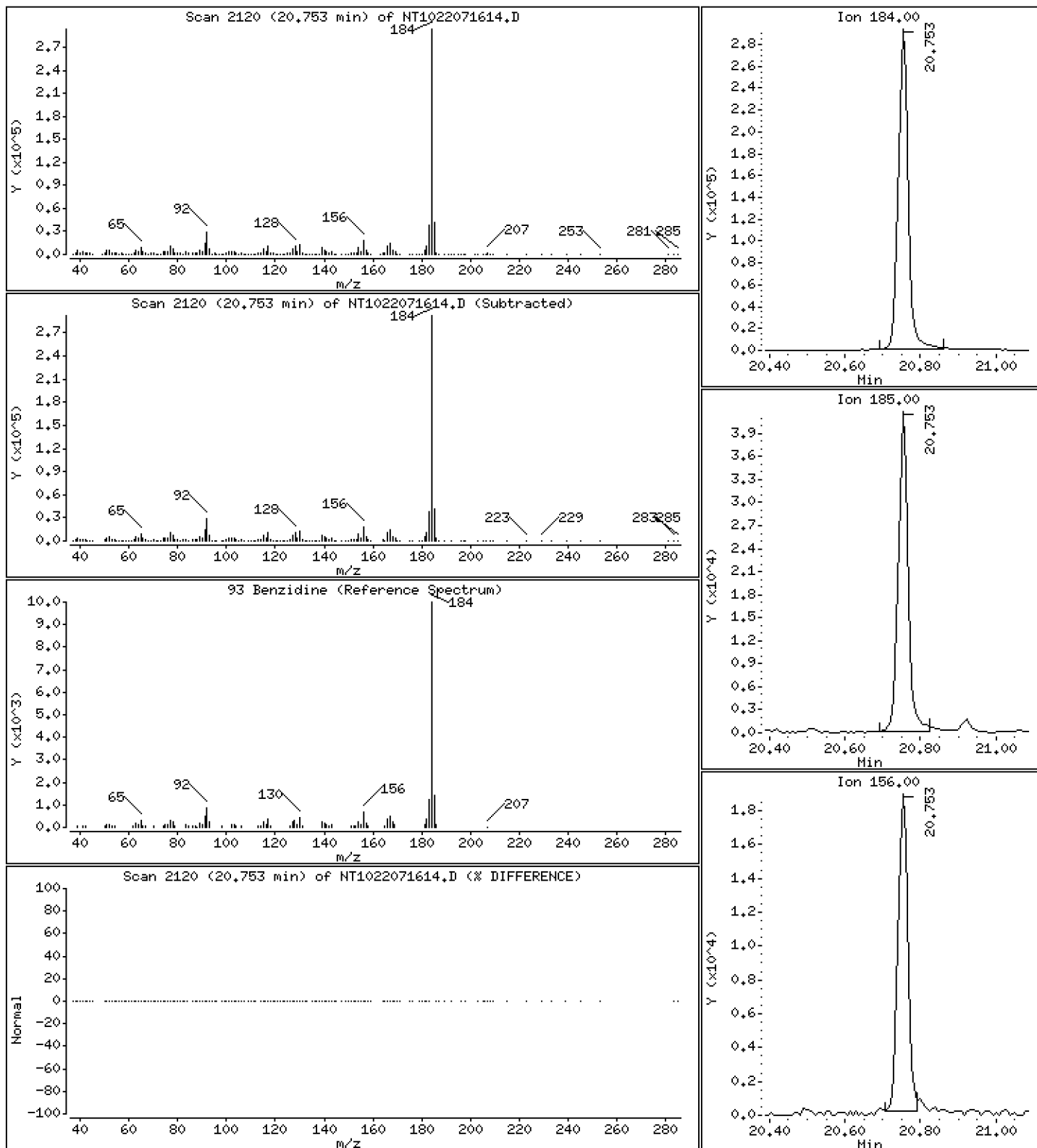
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 13,54 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

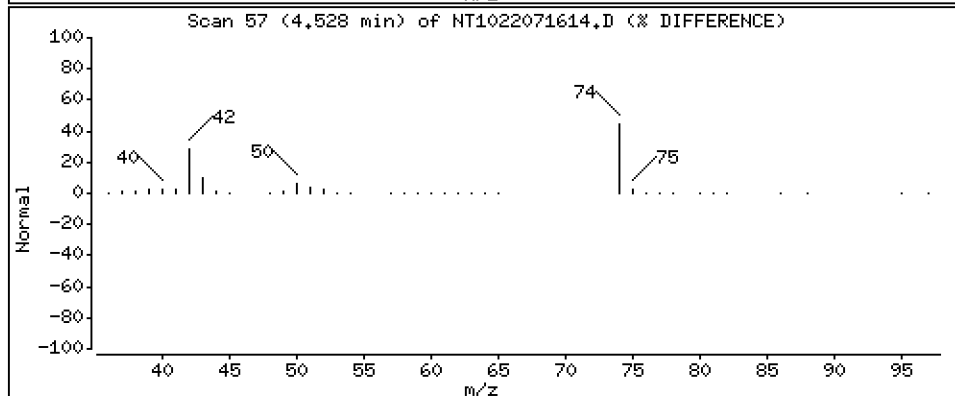
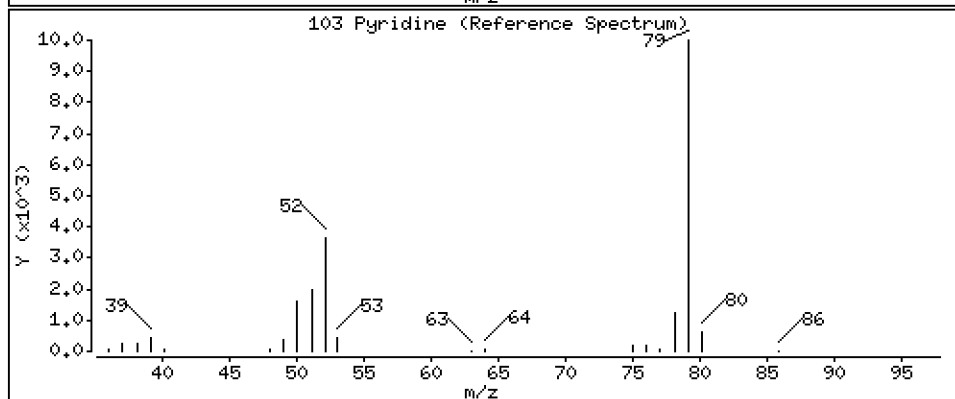
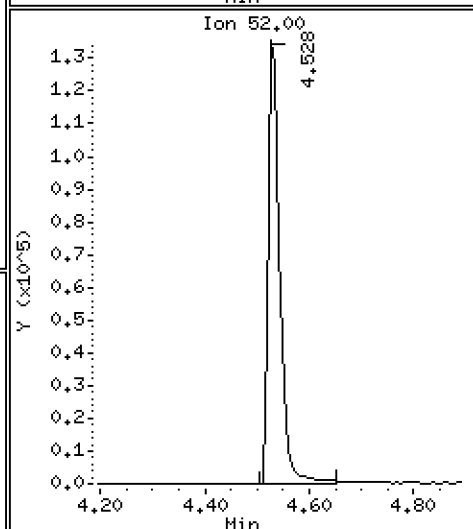
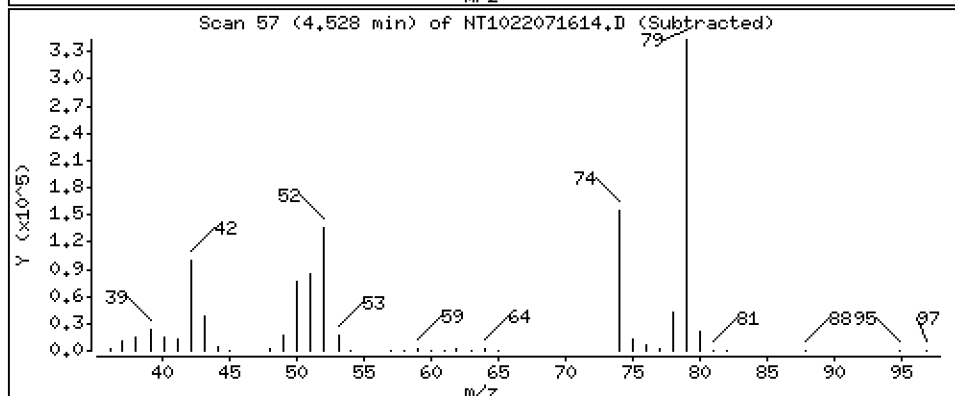
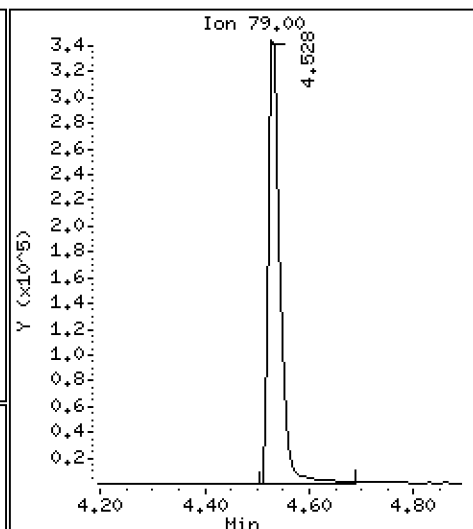
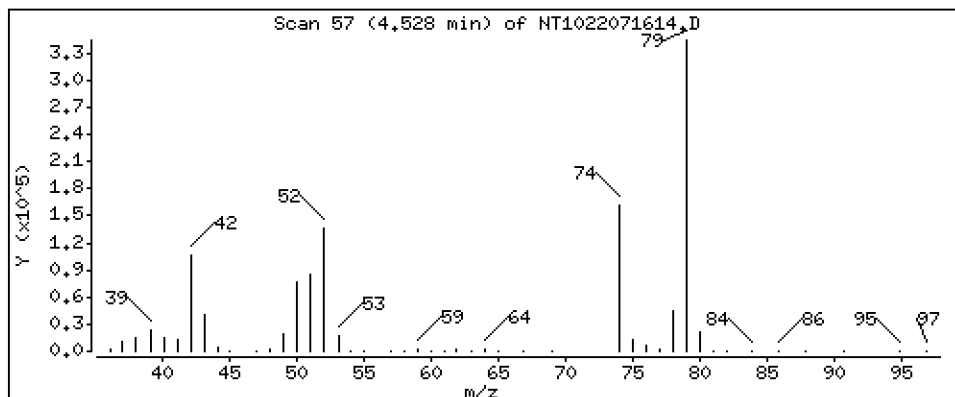
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 4.032 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

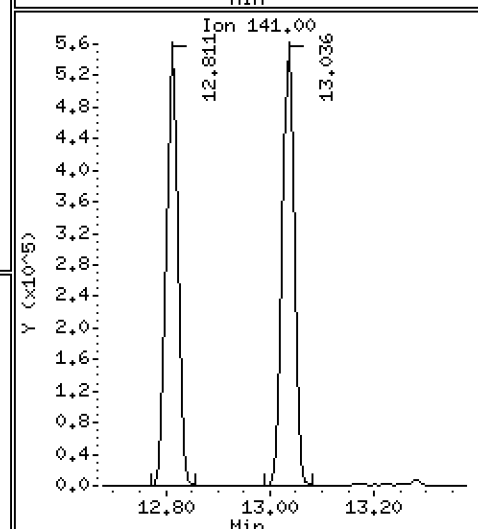
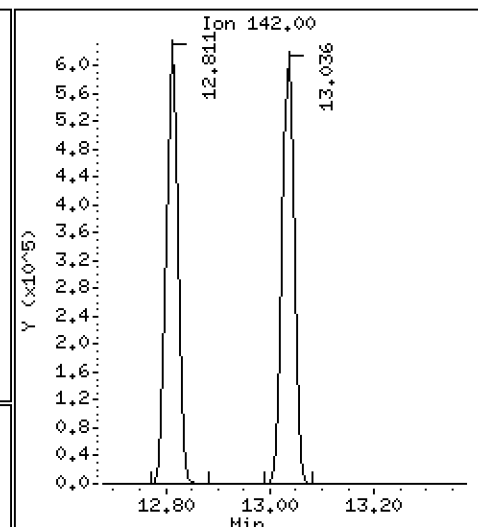
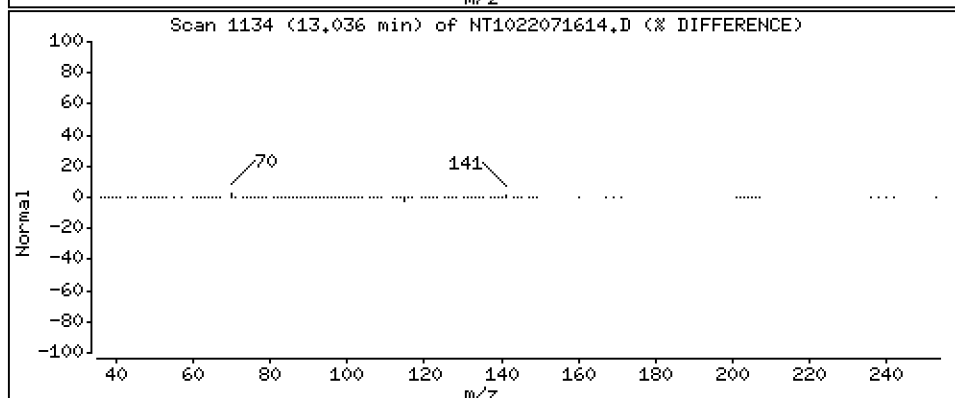
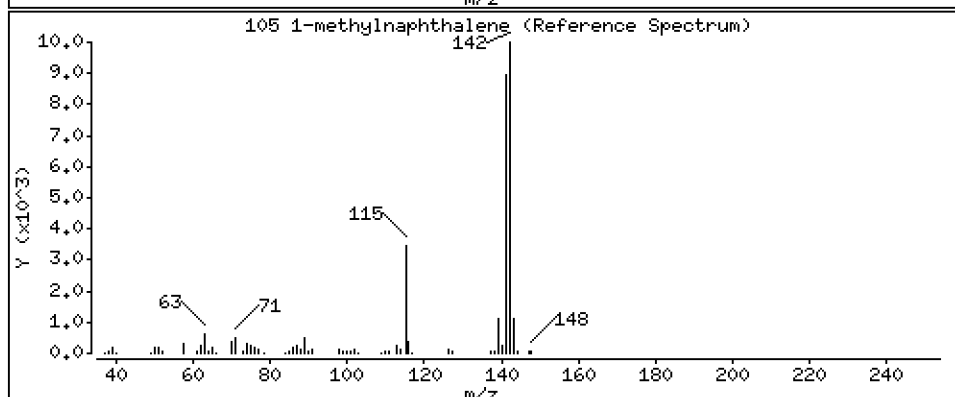
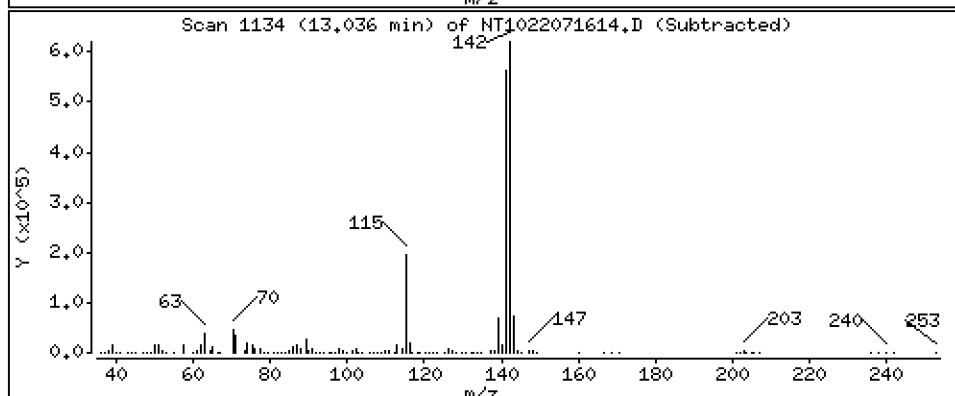
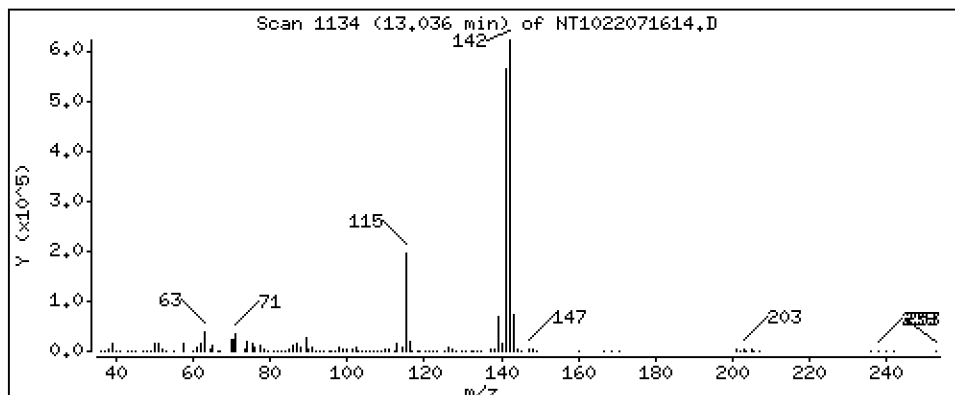
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,474 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

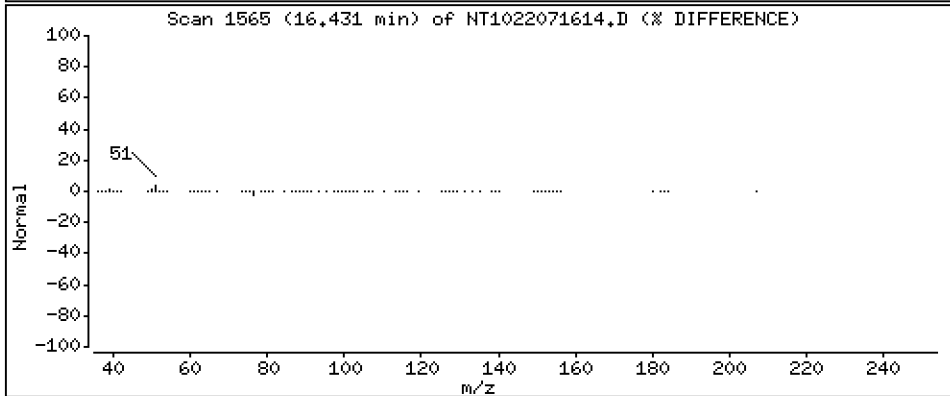
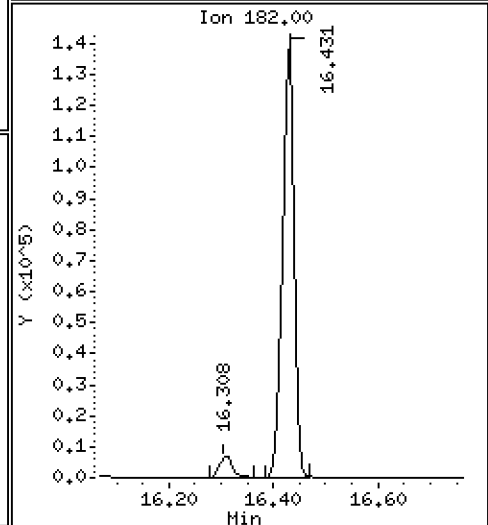
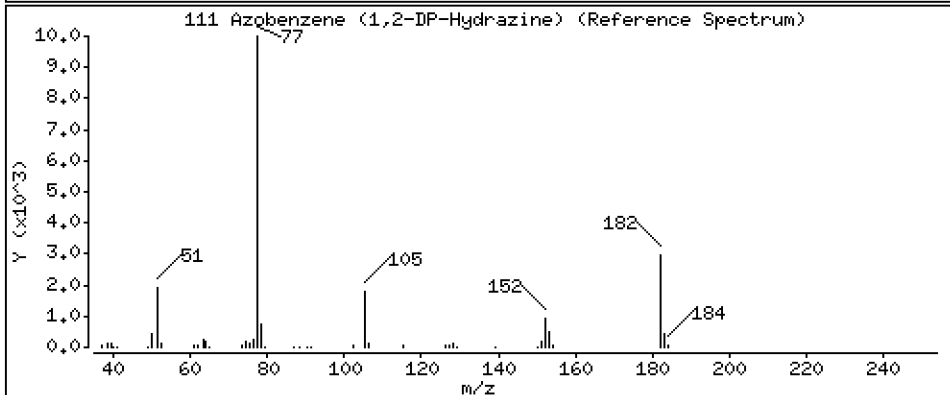
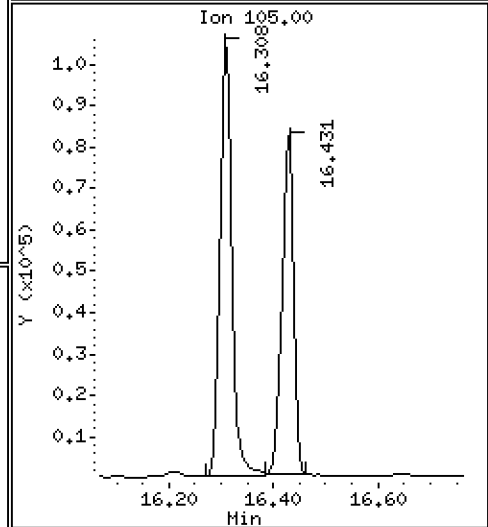
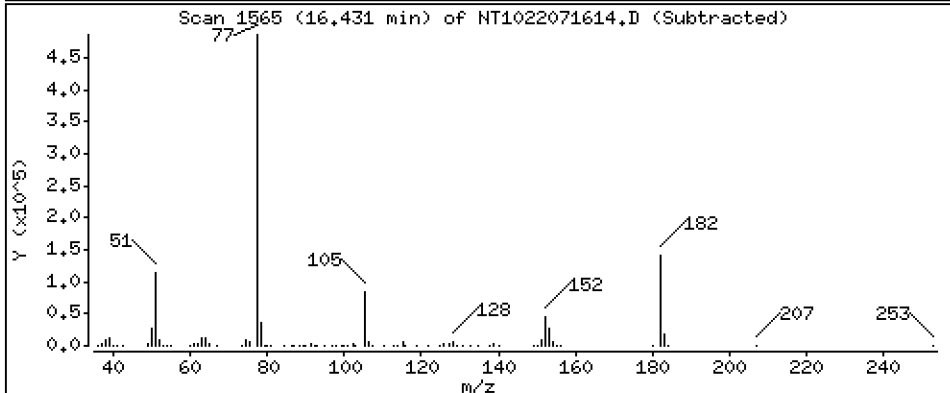
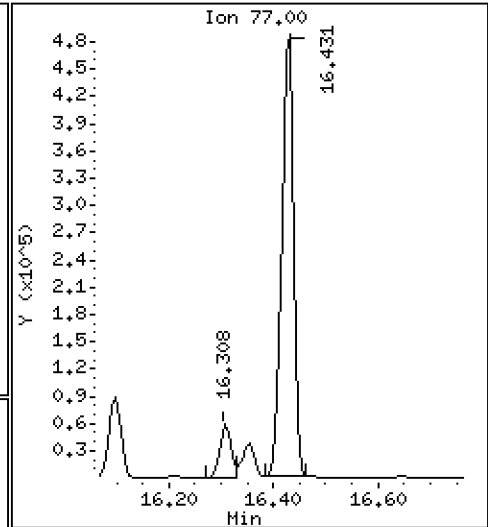
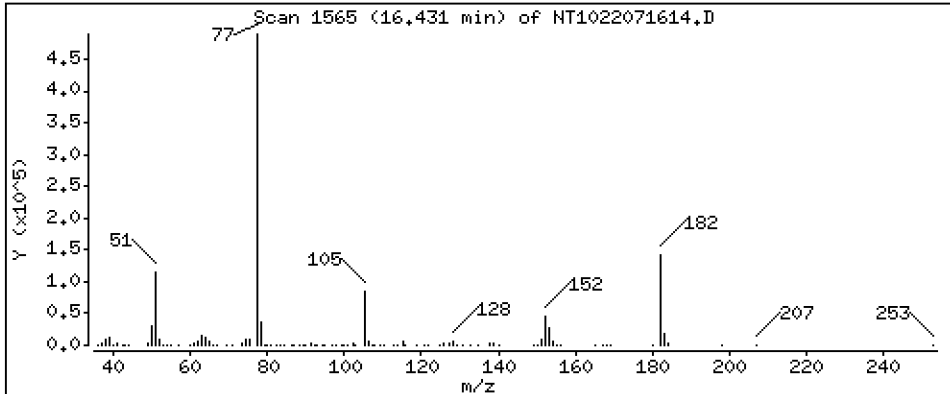
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,799 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

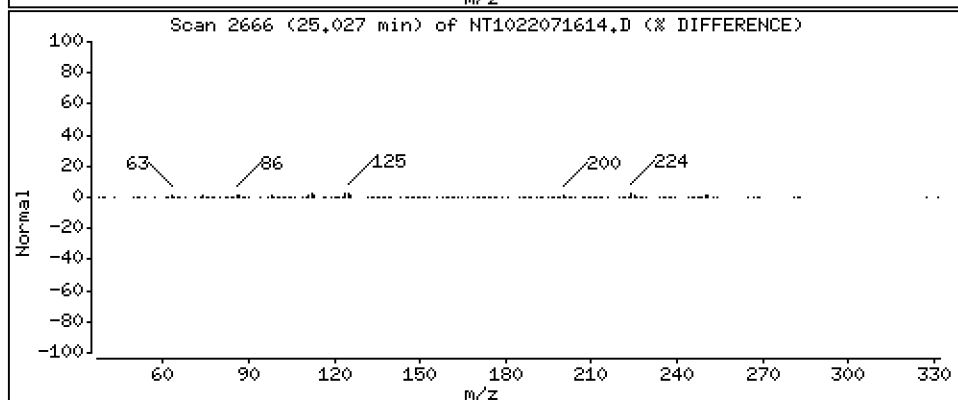
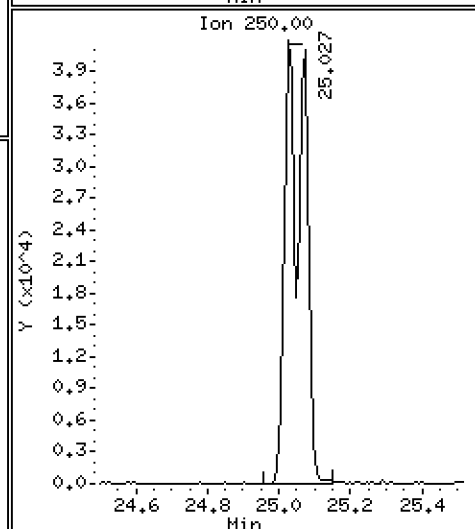
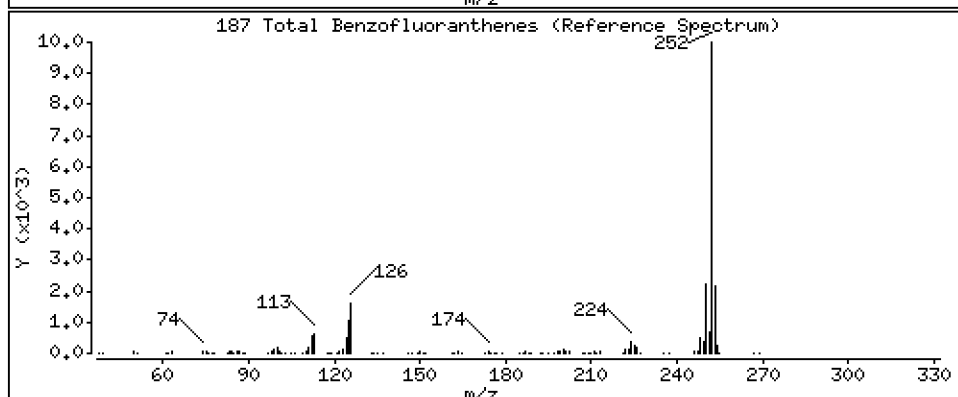
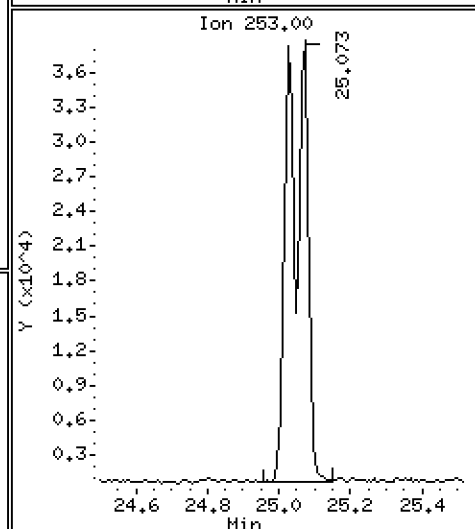
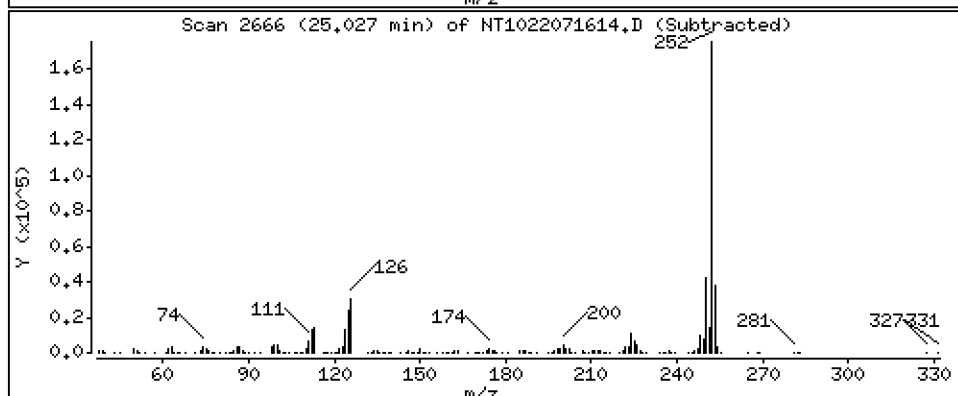
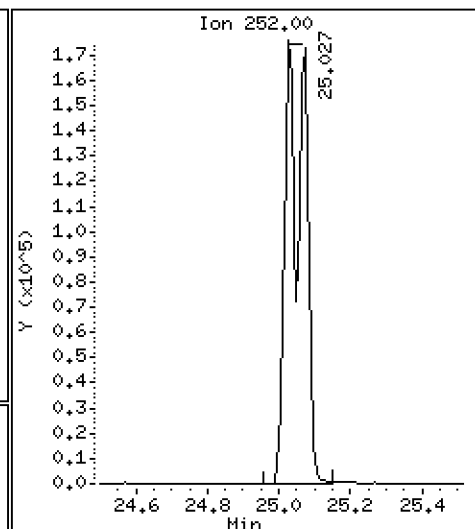
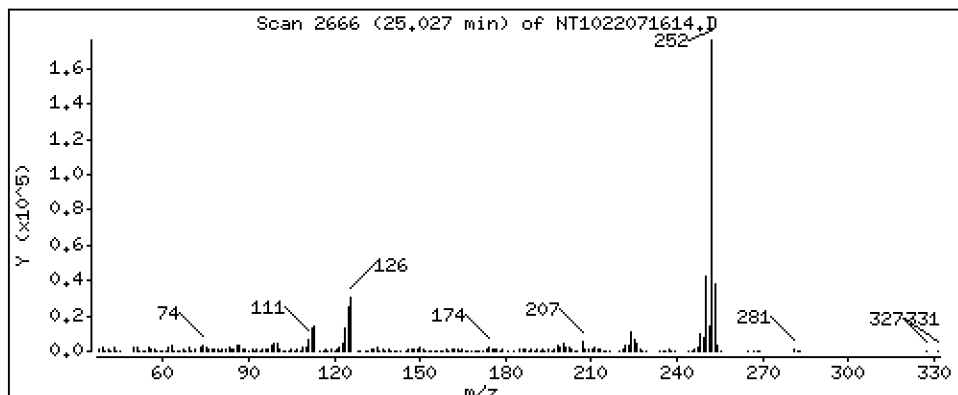
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 11,82 ug/mL



Date : 16-JUL-2022 19:00

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-CCV2

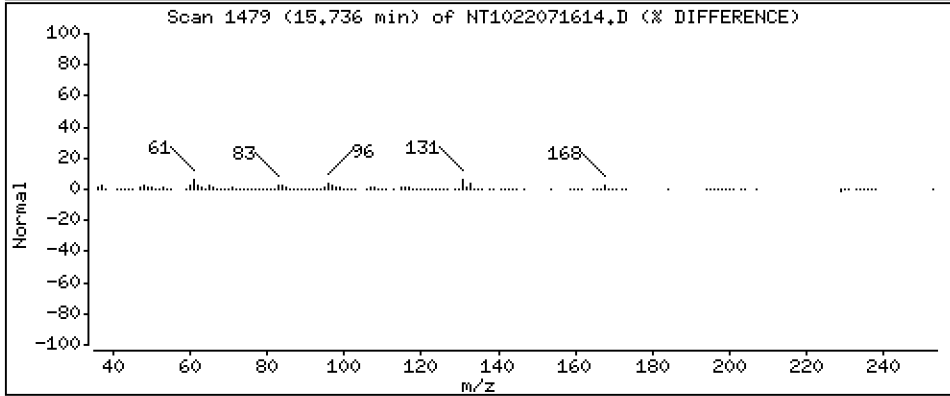
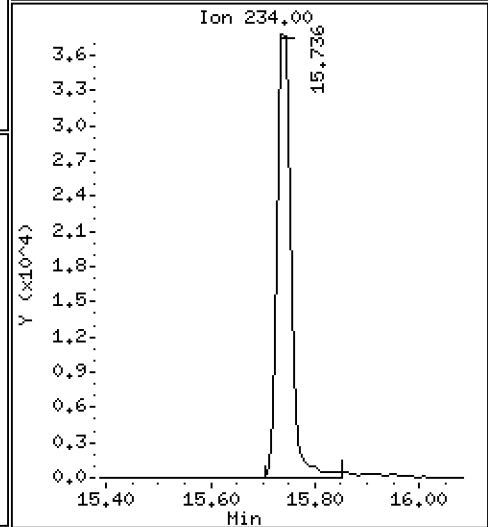
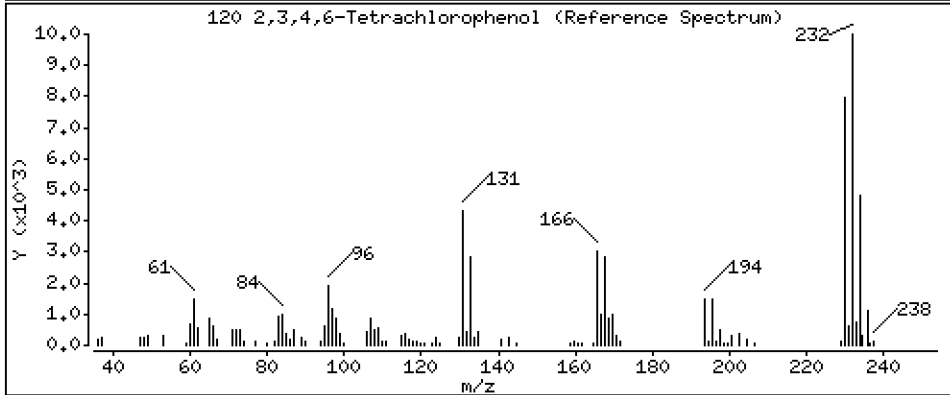
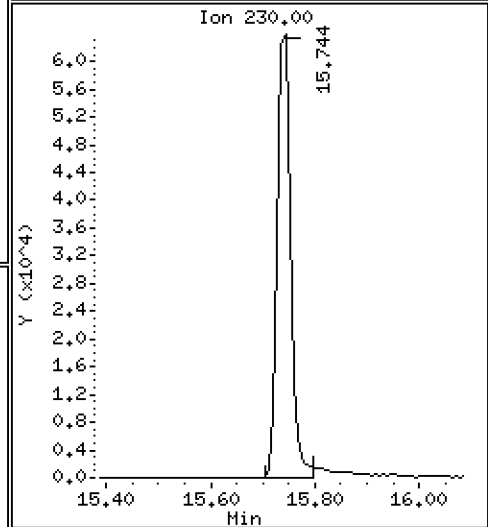
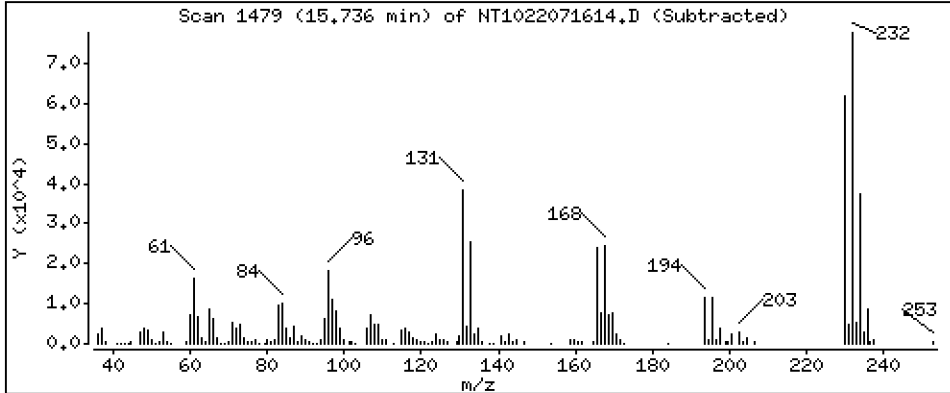
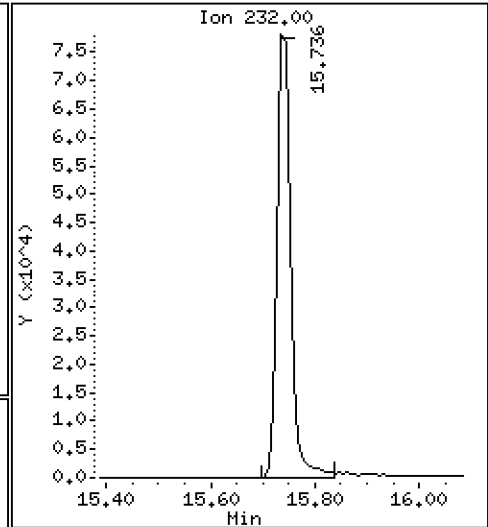
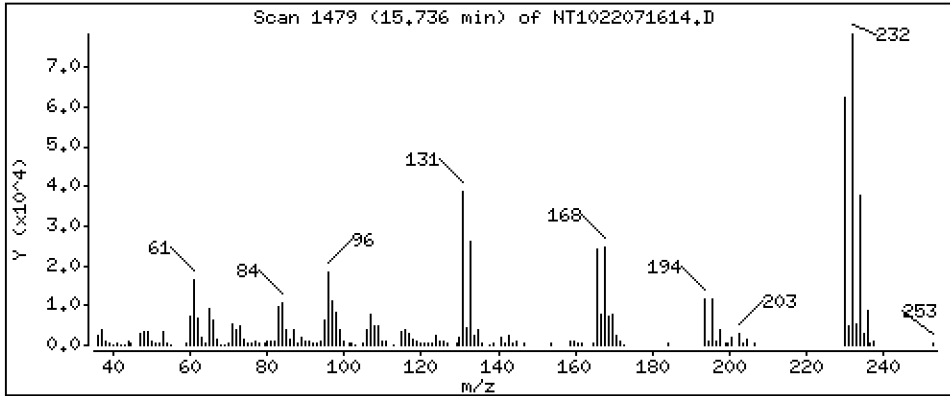
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,911 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220716A.b\NT1022071614.D

Lab Smp Id: SKG0171-CCV2

Inj Date : 16-JUL-2022 19:00

Operator : VTS

Inst ID: nt10.i

Smp Info : SKG0171-CCV2

Misc Info :

Comment : 1ul Injection

Method : \\target\share\chem3\nt10.i\20220716A.b\ABN.m

Meth Date : 19-Jul-2022 07:18 van

Quant Type: ISTD

Cal Date : 23-JUN-2022 13:07

Cal File: NT1022062308.D

Als bottle: 2

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: ICAL.sub

Target Version: 4.14

Processing Host: VANS-202011

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
\$ 1 2-Fluorophenol	112		6.697	6.697	(0.753)	573463	8.01829	8.018
\$ 2 Phenol-d5	99		8.289	8.289	(0.932)	909760	8.57300	8.573
3 Phenol	94		8.313	8.312	(0.935)	507173	5.48470	5.485
\$ 5 2-Chlorophenol-d4	132		8.544	8.536	(0.961)	593428	8.14322	8.143
4 Bis(2-Chloroethyl)ether	93		8.444	8.444	(0.950)	334033	5.01930	5.019
6 2-Chlorophenol	128		8.567	8.567	(0.963)	389135	5.27851	5.279
7 1,3-Dichlorobenzene	146		8.830	8.822	(0.993)	482041	6.04549	6.045
* 8 1,4-Dichlorobenzene-d4	152		8.892	8.892	(1.000)	195861	4.00000	
9 1,4-Dichlorobenzene	146		8.923	8.923	(1.003)	339901	5.40794	5.408
\$ 10 1,2-Dichlorobenzene-d4	152		9.249	9.249	(1.040)	316659	7.05176	7.052
12 1,2-Dichlorobenzene	146		9.280	9.272	(1.044)	377071	5.65130	5.651
11 Benzyl alcohol	108		9.171	9.171	(1.031)	291433	7.91155	7.912
14 2,2'-oxybis(1-Chloropropane)	121		9.466	9.466	(1.065)	104469	6.62065	6.621 (M)
13 2-Methylphenol	108		9.420	9.412	(1.059)	319158	5.59792	5.598
17 Hexachloroethane	117		9.862	9.862	(1.109)	159248	5.68385	5.684
16 N-Nitroso-di-n-propylamine	70		9.723	9.722	(1.093)	238096	6.00476	6.005
15 4-Methylphenol	108		9.684	9.684	(1.089)	379099	6.22189	6.222
\$ 18 Nitrobenzene-d5	82		9.986	9.978	(0.878)	382676	5.21803	5.218
19 Nitrobenzene	77		10.025	10.017	(0.882)	381730	5.16434	5.164
20 Isophorone	82		10.468	10.467	(0.920)	579582	5.42026	5.420
21 2-Nitrophenol	139		10.654	10.646	(0.937)	250779	5.37138	5.371
22 2,4-Dimethylphenol	107		10.725	10.716	(0.943)	586946	10.3488	10.35
23 Bis(2-Chloroethoxy)methane	93		10.903	10.903	(0.959)	317009	4.93455	4.935
24 Benzoic acid	105		10.963	10.954	(0.964)	495543	16.4548	16.45
25 2,4-Dichlorophenol	162		11.116	11.115	(0.977)	554490	9.61948	9.619
26 1,2,4-Trichlorobenzene	180		11.294	11.285	(0.993)	310650	5.02082	5.021
* 27 Naphthalene-d8	136		11.372	11.372	(1.000)	689219	4.00000	
28 Naphthalene	128		11.419	11.411	(1.004)	940181	5.33005	5.330
29 4-Chloroaniline	127		11.550	11.550	(1.016)	848371	10.8924	10.89
30 Hexachlorobutadiene	225		11.774	11.774	(1.035)	214732	7.27490	7.275
31 4-Chloro-3-methylphenol	107		12.540	12.540	(1.103)	743842	10.6537	10.65
32 2-Methylnaphthalene	142		12.811	12.803	(1.126)	964891	5.50393	5.504
33 Hexachlorocyclopentadiene	237		13.283	13.275	(0.886)	71444	3.11019	3.110

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.445	13.445	(0.897)	506978	11.2589	11.26
35 2,4,5-Trichlorophenol	196	13.531	13.523	(0.902)	536018	10.0025	10.00
§ 36 2-Fluorobiphenyl	172	13.600	13.592	(0.907)	941239	5.24978	5.250
37 2-Chloronaphthalene	162	13.809	13.801	(0.921)	848368	5.36757	5.368
38 2-Nitroaniline	65	14.072	14.064	(0.939)	452919	10.7128	10.71
39 Dimethylphthalate	163	14.506	14.498	(0.967)	665194	4.78759	4.788
40 Acenaphthylene	152	14.676	14.668	(0.979)	1053146	4.54727	4.547
41 2,6-Dinitrotoluene	165	14.645	14.637	(0.977)	325247	10.0792	10.08
* 42 Acenaphthene-d10	164	14.993	14.985	(1.000)	396199	4.00000	
43 3-Nitroaniline	138	14.932	14.924	(0.996)	427858	11.2631	11.26
44 Acenaphthene	153	15.055	15.047	(1.004)	806558	6.99983	7.000
45 2,4-Dinitrophenol	184	15.156	15.148	(1.011)	161143	10.9852	10.99
46 Dibenzofuran	168	15.388	15.380	(1.026)	1010906	5.52046	5.520
47 4-Nitrophenol	109	15.303	15.295	(1.021)	108773	8.61164	8.612
48 2,4-Dinitrotoluene	165	15.465	15.449	(1.031)	481492	11.1640	11.16
50 Diethylphthalate	149	15.967	15.967	(1.065)	595802	4.99883	4.999
49 Fluorene	166	16.107	16.091	(1.074)	758895	3.46831	3.468
51 4-Chlorophenyl-phenylether	204	16.099	16.091	(1.074)	309077	3.21657	3.217
52 4-Nitroaniline	138	16.207	16.199	(1.081)	426955	11.2216	11.22
53 4,6-Dinitro-2-methylphenol	198	16.307	16.299	(0.904)	408045	16.7424	16.74
54 N-Nitrosodiphenylamine	169	16.354	16.346	(0.906)	503944	5.13683	5.137
§ 55 2,4,6-Tribromophenol	330	16.647	16.639	(1.110)	115728	6.42026	6.420
56 4-Bromophenyl-phenylether	248	17.109	17.094	(0.948)	252129	5.54697	5.547
57 Hexachlorobenzene	284	17.418	17.418	(0.965)	207095	4.98509	4.985
58 Pentachlorophenol	266	17.797	17.789	(0.986)	34483	3.63468	3.635
* 59 Phenanthrene-d10	188	18.045	18.029	(1.000)	623907	4.00000	
60 Phenanthrene	178	18.091	18.083	(1.003)	909390	5.54803	5.548
61 Anthracene	178	18.184	18.176	(1.008)	1003188	5.74317	5.743
62 Carbazole	167	18.525	18.517	(1.027)	910777	5.65185	5.652
63 Di-n-butylphthalate	149	19.345	19.337	(1.072)	1465546	5.81922	5.819
64 Fluoranthene	202	20.505	20.497	(0.885)	1391923	7.09965	7.100
65 Pyrene	202	20.939	20.923	(0.904)	1286591	7.42763	7.428
§ 66 Terphenyl-d14	244	21.240	21.225	(0.917)	625867	6.80761	6.808
67 Butylbenzylphthalate	149	22.185	22.169	(0.958)	368067	6.91576	6.916
68 Benzo(a)anthracene	228	23.137	23.114	(0.999)	582988	5.22225	5.222
* 69 Chrysene-d12	240	23.161	23.145	(1.000)	263450	4.00000	
70 3,3'-Dichlorobenzidine	252	23.099	23.083	(0.997)	497816	13.6847	13.68
71 Chrysene	228	23.207	23.191	(1.002)	442318	5.62910	5.629
72 bis(2-Ethylhexyl)phthalate	149	23.238	23.222	(0.958)	354655	7.05757	7.058
* 134 Di-n-octylphthalate-d4	153	24.244	24.221	(1.000)	454637	4.00000	
73 Di-n-octylphthalate	149	24.252	24.229	(1.000)	582326	5.63535	5.635
74 Benzo(b)fluoranthene	252	25.026	25.003	(0.971)	344271	5.92817	5.928
75 Benzo(k)fluoranthene	252	25.073	25.049	(0.972)	326910	5.85412	5.854
76 Benzo(a)pyrene	252	25.669	25.646	(0.995)	288567	6.07124	6.071
* 77 Perylene-d12	264	25.785	25.754	(1.000)	128231	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.420	28.381	(1.102)	325522	6.41441	6.414
79 Dibenzo(a,h)anthracene	278	28.435	28.388	(1.103)	256576	6.60430	6.604
80 Benzo(g,h,i)perylene	276	29.196	29.150	(1.132)	299328	7.37866	7.379
90 N-Nitrosodimethylamine	74	4.519	4.527	(0.508)	402477	8.60106	8.601
91 Aniline	93	8.359	8.351	(0.940)	881117	9.52723	9.527
93 Benzidine	184	20.753	20.737	(0.896)	526295	13.5412	13.54
103 Pyridine	79	4.527	4.542	(0.509)	534855	4.03213	4.032
105 1-methylnaphthalene	142	13.035	13.027	(1.146)	942878	5.47441	5.474
111 Azobenzene (1,2-DP-Hydrazine)	77	16.431	16.415	(1.096)	759438	4.79942	4.799

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS					ON-COLUMN	FINAL
	====	====	=====	=====	=====	=====	
187 Total Benzofluoranthenes	252	25.026	25.003	(0.971)	640033	11.8202	11.82
120 2,3,4,6-Tetrachlorophenol	232	15.736	15.735	(1.049)	135482	3.91130	3.911

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 16-JUL-2022
 Lab File ID: NT1022071614.D Calibration Time: 13:33
 Lab Smp Id: SKG0171-CCV2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220716A.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	202557	101279	405114	195861	-3.31
27 Naphthalene-d8	703953	351977	1407906	689219	-2.09
42 Acenaphthene-d10	510125	255063	1020250	396199	-22.33
59 Phenanthrene-d10	646092	323046	1292184	623907	-3.43
69 Chrysene-d12	349304	174652	698608	263450	-24.58
134 Di-n-octylphthala	599143	299572	1198286	454637	-24.12
77 Perylene-d12	184274	92137	368548	128231	-30.41

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.89	8.39	9.39	8.89	0.00
27 Naphthalene-d8	11.37	10.87	11.87	11.37	0.00
42 Acenaphthene-d10	14.99	14.49	15.49	14.99	0.05
59 Phenanthrene-d10	18.03	17.53	18.53	18.05	0.09
69 Chrysene-d12	23.15	22.65	23.65	23.16	0.07
134 Di-n-octylphthala	24.22	23.72	24.72	24.24	0.10
77 Perylene-d12	25.75	25.25	26.25	25.79	0.12

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

REVIEW SUMMARY FOR FILE - NT1022071614.D

Lab ID: SKG0171-CCV2
nt10.i, ABN.m, 16-JUL-2022 19:00

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

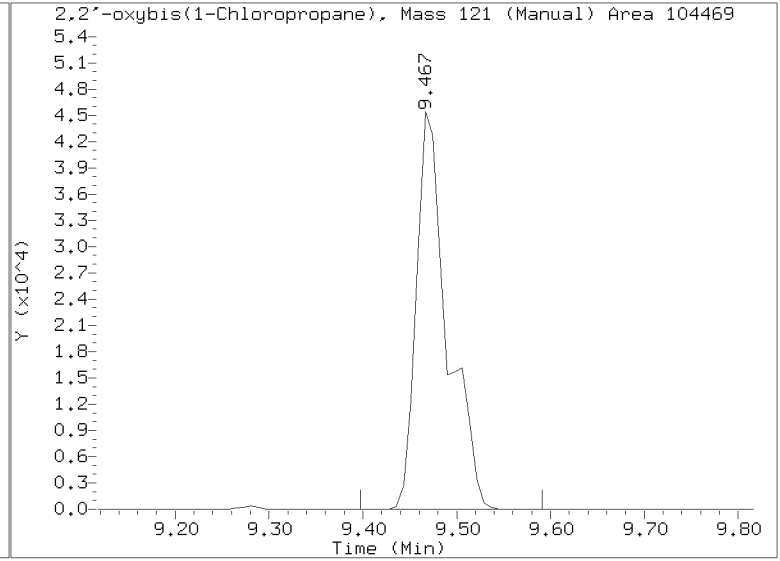
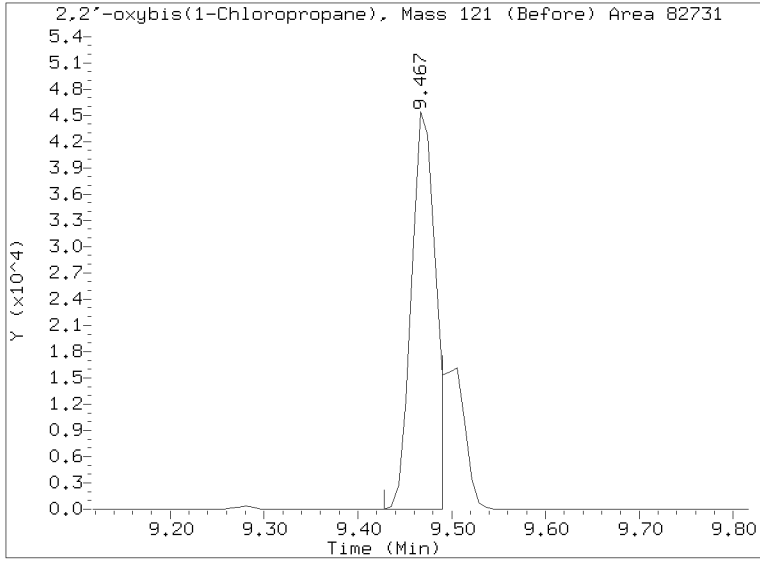
RRT check based on Ccal File: NT1022071608.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220716A.b/NT1022071614.D
Injection Date: 16-JUL-2022 19:00
Lab ID:SKG0171-CCV2 Client ID:
Report Date: 07/19/2022 10:08





LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071603.D

Calibration Date: 06/23/2022

Sequence: SKG0171

Injection Date: 07/16/22

Lab Sample ID: SKG0171-LCV1

Injection Time: 10:19

Sequence Name: ABN 0.2

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.20000	0.2	1.8884920	1.8826660		-0.3	+/-50
bis(2-chloroethyl) ether	A	0.20000	0.2	1.3591220	1.4281570		5.1	+/-50
2-Chlorophenol	A	0.20000	0.2	1.5055700	1.5122750		0.4	+/-50
1,3-Dichlorobenzene	A	0.20000	0.3	1.6284120	2.2746420		39.7	+/-50
1,4-Dichlorobenzene	A	0.20000	0.2	1.2836070	1.2877340		0.3	+/-50
1,2-Dichlorobenzene	A	0.20000	0.2	1.3626570	1.4757050		8.3	+/-50
Benzyl Alcohol	A	0.20000	0.2	0.7522971	0.7668067		1.9	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.20000	0.3	0.3222545	0.4105382		27.4	+/-50
2-Methylphenol	A	0.20000	0.2	1.1643690	1.0670170		-8.4	+/-50
Hexachloroethane	A	0.20000	0.2	0.5721944	0.5340018		-6.7	+/-50
N-Nitroso-di-n-Propylamine	A	0.20000	0.2	0.8097827	0.8092974		-0.06	+/-50
4-Methylphenol	A	0.20000	0.2	1.2443490	1.2103380		-2.7	+/-50
Nitrobenzene	A	0.20000	0.2	0.4289874	0.3709363		-13.5	+/-50
Isophorone	A	0.20000	0.2	0.6205796	0.4831713		-22.1	+/-50
2-Nitrophenol	A	0.20000	0.1	0.2709617	0.1830375		-32.5	+/-50
2,4-Dimethylphenol	A	0.40000	0.4	0.3291631	0.3221411		-2.1	+/-50
Bis(2-Chloroethoxy)methane	A	0.20000	0.2	0.3728438	0.4009920		7.6	+/-50
2,4-Dichlorophenol	A	0.40000	0.4	0.3345374	0.2934066		-12.3	+/-50
1,2,4-Trichlorobenzene	A	0.20000	0.3	0.3494981	0.4926721		37.2	+/-50
Naphthalene	A	0.20000	0.2	1.0237250	0.9355002		-8.6	+/-50
Benzoic acid	A	0.80000	0.04	0.1354719	0.0077762		-95.4	+/-50
4-Chloroaniline	A	0.40000	0.3	0.4520265	0.3461252		-23.4	+/-50
Hexachlorobutadiene	A	0.20000	0.3	0.1713061	0.2336078		36.4	+/-50
4-Chloro-3-Methylphenol	A	0.40000	0.3	0.3652577	0.2636131		-33.1	+/-50
2-Methylnaphthalene	A	0.20000	0.2	1.0174370	0.8919093		-12.3	+/-50
2,4,6-Trichlorophenol	A	0.40000	0.2	0.4546098	0.2241515		-50.7	+/-50
2,4,5-Trichlorophenol	A	0.40000	0.2	0.4787210	0.2559636		-53.1	+/-50
2-Chloronaphthalene	A	0.20000	0.1	1.5957070	1.0572250		-33.7	+/-50
2-Nitroaniline	A	0.40000	0.2	0.4268379	0.1982199		-53.6	+/-50
Acenaphthylene	A	0.20000	0.1	2.3382150	1.5849470		-32.2	+/-50
Dimethylphthalate	A	0.20000	0.1	1.4027420	0.9868954		-29.6	+/-50
2,6-Dinitrotoluene	A	0.40000	0.2	0.3257863	0.1855684		-43.0	+/-50
Acenaphthene	A	0.20000	0.2	1.1633080	1.0844140		-6.8	+/-50
3-Nitroaniline	A	0.40000	0.2	0.3835195	0.2301891		-40.0	+/-50

* Values outside of QC limits



LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071603.D

Calibration Date: 06/23/2022

Sequence: SKG0171

Injection Date: 07/16/22

Lab Sample ID: SKG0171-LCV1

Injection Time: 10:19

Sequence Name: ABN 0.2

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Dibenzofuran	A	0.20000	0.1	1.8487680	1.3332530		-27.9	+/-50
4-Nitrophenol	A	0.40000	0.1	0.1044372	0.0463495		-63.0	+/-50
2,4-Dinitrotoluene	A	0.40000	0.2	0.4354293	0.1985342		-54.4	+/-50
Fluorene	A	0.20000	0.1	2.2090760	1.1693860		-47.1	+/-50
4-Chlorophenylphenyl ether	A	0.20000	0.1	0.9701069	0.5006116		-48.4	+/-50
Diethyl phthalate	A	0.20000	0.08	1.2033170	0.4818832		-60.0	+/-50
4-Nitroaniline	A	0.40000	0.3	0.3841274	0.2690211		-30.0	+/-50
4,6-Dinitro-2-methylphenol	A	0.80000	0.1	0.1197775	0.0265889		-83.1	+/-50
N-Nitrosodiphenylamine	A	0.20000	0.2	0.6289655	0.7811917		24.2	+/-50
4-Bromophenyl phenyl ether	A	0.20000	0.2	0.2914116	0.3028326		3.9	+/-50
Hexachlorobenzene	A	0.20000	0.1	0.2851630	0.2084750		-25.8	+/-50
Phenanthrene	A	0.20000	0.2	1.0508770	0.9431863		-10.3	+/-50
Anthracene	A	0.20000	0.2	1.1198770	0.9403471		-16.0	+/-50
Carbazole	A	0.20000	0.2	1.0331450	0.9787678		-5.3	+/-50
Di-n-Butylphthalate	A	0.20000	0.2	1.4847320	1.1871970		-23.3	+/-50
Fluoranthene	A	0.20000	0.2	2.5859780	2.5726680		-8.6	+/-50
Pyrene	A	0.20000	0.2	2.4339860	2.7521500		11.7	+/-50
Butylbenzylphthalate	A	0.20000	0.2	0.8080700	0.9597778		18.8	+/-50
Benzo(a)anthracene	A	0.20000	0.2	1.6949770	1.7307610		2.1	+/-50
3,3'-Dichlorobenzidine	A	0.60000	0.6	0.5523250	0.5725375		3.7	+/-50
Chrysene	A	0.20000	0.2	1.1695310	1.0980030		-2.2	+/-50
bis(2-Ethylhexyl)phthalate	A	0.20000	0.5	0.4421262	1.0120920		129	+/-50
Di-n-Octylphthalate	A	0.20000	0.2	0.9091601	0.8810368		-3.1	+/-50
Benzo(a)fluoranthene, Total	A	0.40000	0.4	1.6890580	1.5043790		-10.9	+/-50
Benzo(a)pyrene	A	0.20000	0.2	1.4826420	1.3286270		-10.4	+/-50
Indeno(1,2,3-cd)pyrene	A	0.20000	0.2	1.5830350	1.5287580		-3.4	+/-50
Dibenzo(a,h)anthracene	A	0.20000	0.2	1.2118700	1.2023630		-0.8	+/-50
Benzo(g,h,i)perylene	A	0.20000	0.2	1.2654270	1.3240180		4.6	+/-50
1-Methylnaphthalene	A	0.20000	0.2	0.9995882	0.8798668		-12.0	+/-50
2-Fluorophenol	A	0.30000	0.296	1.4606150	1.4405330		-1.4	+/-50
Phenol-d5	A	0.30000	0.245	2.1672350	1.7662740		-18.5	+/-50
2-Chlorophenol-d4	A	0.30000	0.303	1.4882780	1.5014210		0.9	+/-50
1,2-Dichlorobenzene-d4	A	0.20000	0.210	0.9170783	0.9618693		4.9	+/-50
Nitrobenzene-d5	A	0.20000	0.175	0.4256249	0.3720256		-12.6	+/-50

* Values outside of QC limits



Analytical Resources, LLC
Analytical Chemists and Consultants

**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Instrument ID: NT10

Calibration: FF00062

Lab File ID: NT1022071603.D

Calibration Date: 06/23/2022

Sequence: SKG0171

Injection Date: 07/16/22

Lab Sample ID: SKG0171-LCV1

Injection Time: 10:19

Sequence Name: ABN 0.2

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Fluorobiphenyl	A	0.20000	0.136	1.8101110	1.2349220		-31.8	+/-50
2,4,6-Tribromophenol	A	0.30000	0.0831	0.1582114	0.0499075		-72.3	+/-50
p-Terphenyl-d14	A	0.20000	0.249	1.3958840	1.7407480		24.7	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20220716.1\NT1022071603.D

Date: 16-JUL-2022 10:19

Client ID:

Sample Info: SKC0171-LCW1

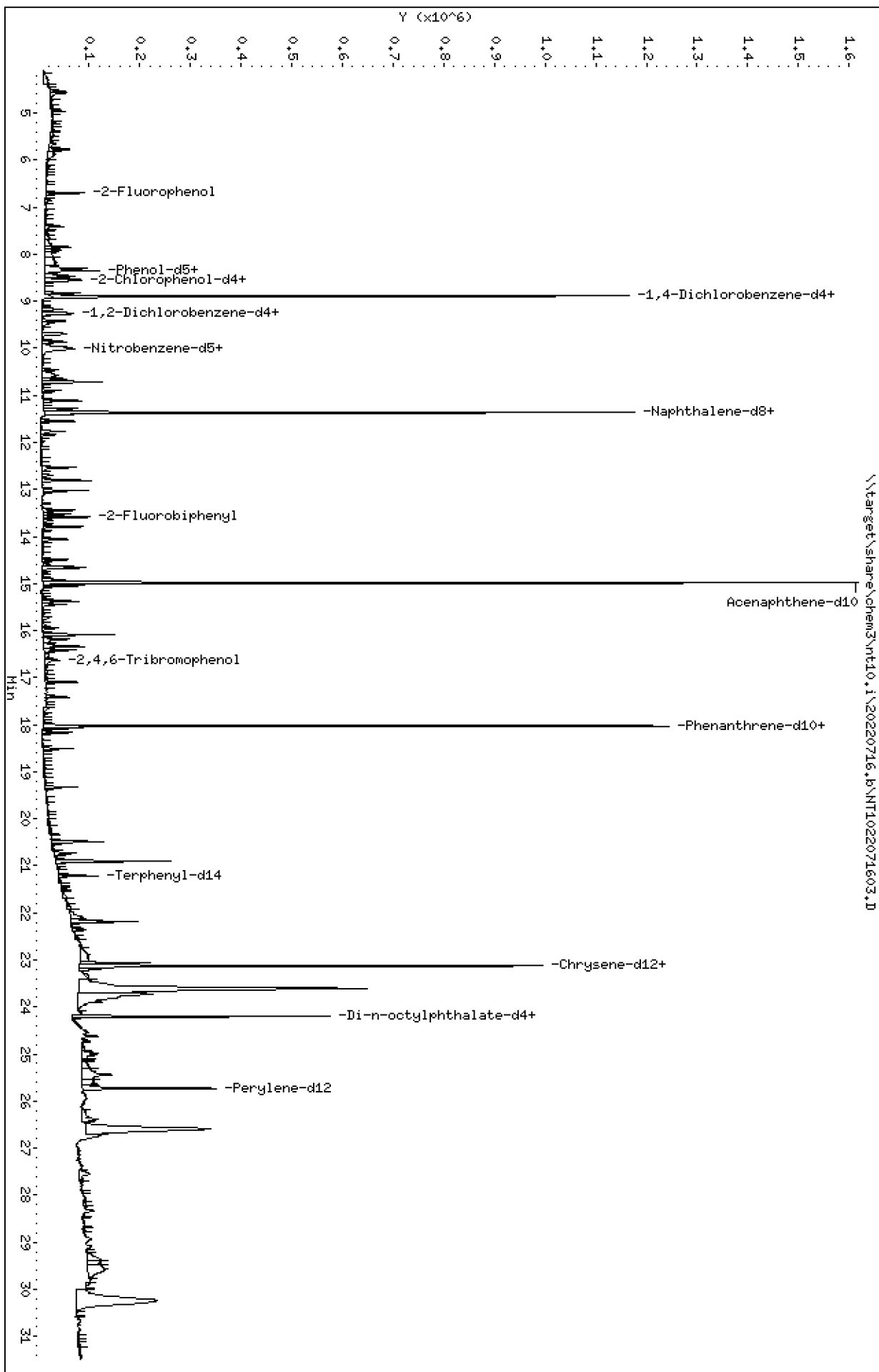
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

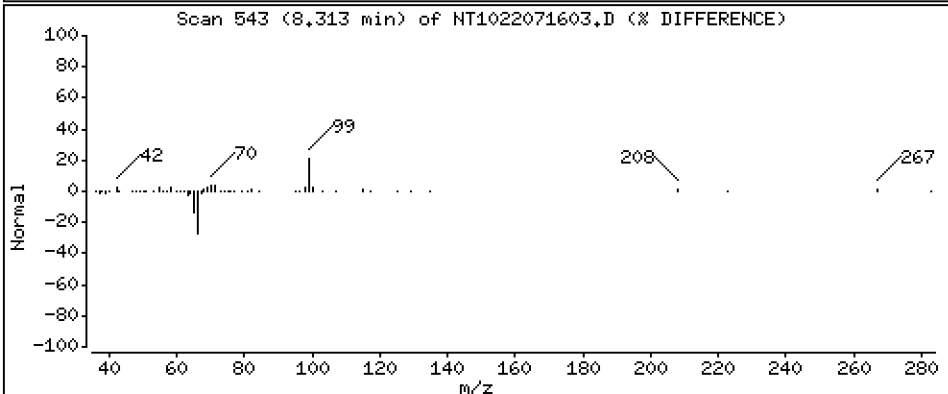
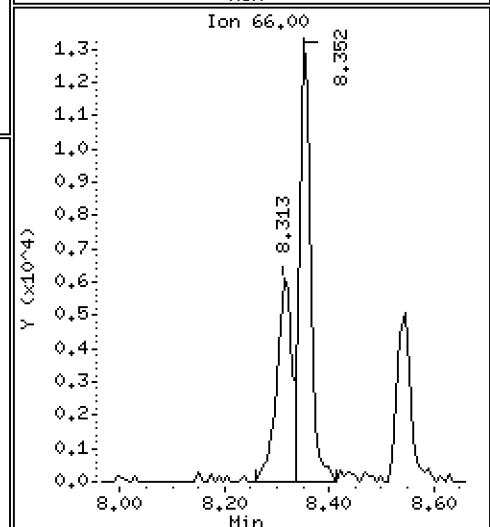
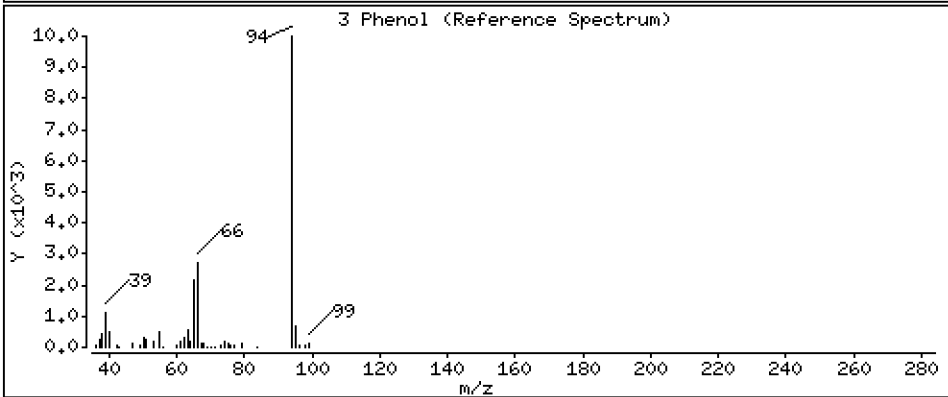
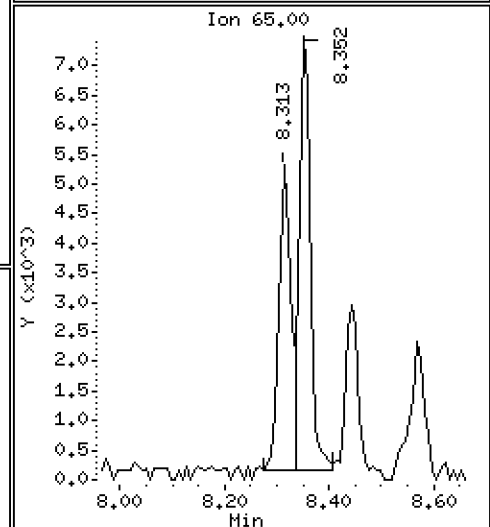
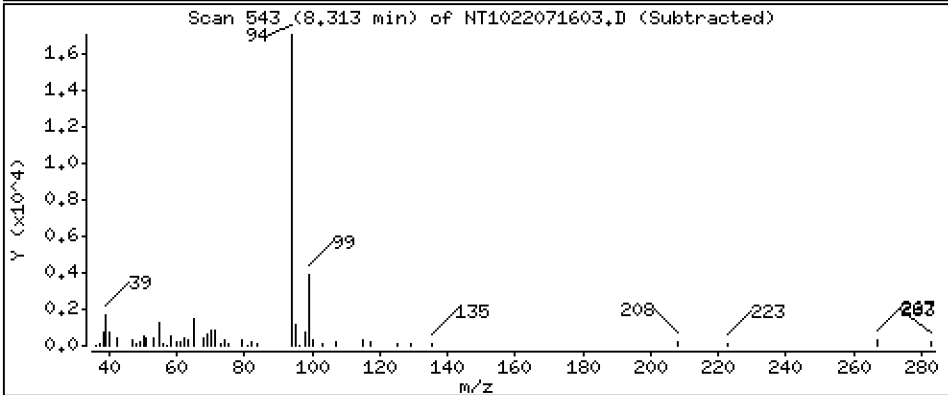
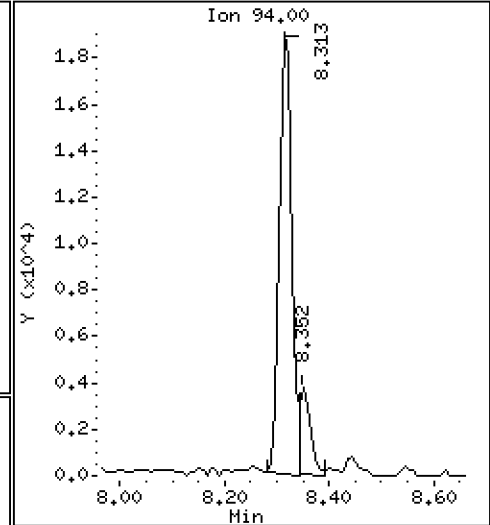
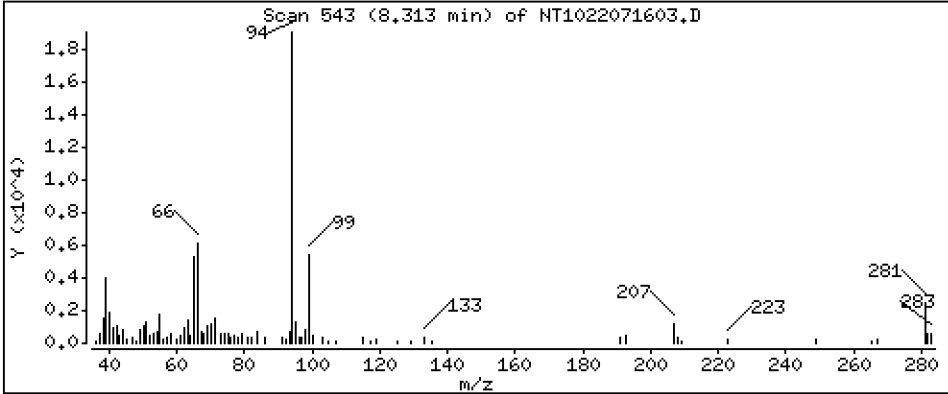
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,1994 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

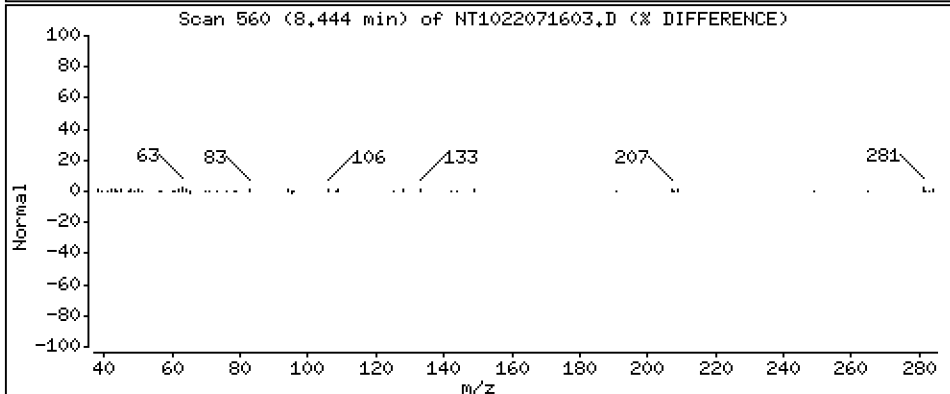
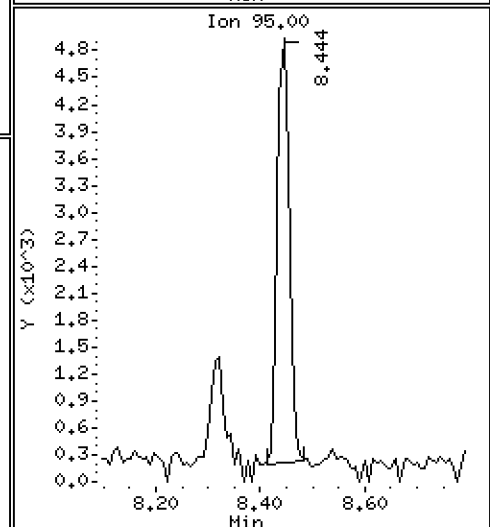
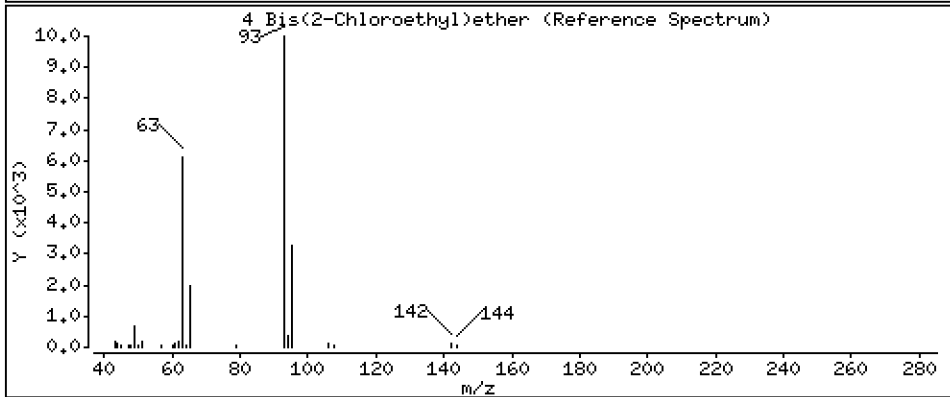
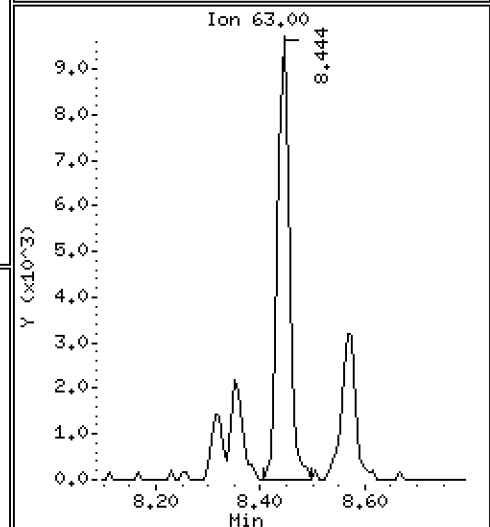
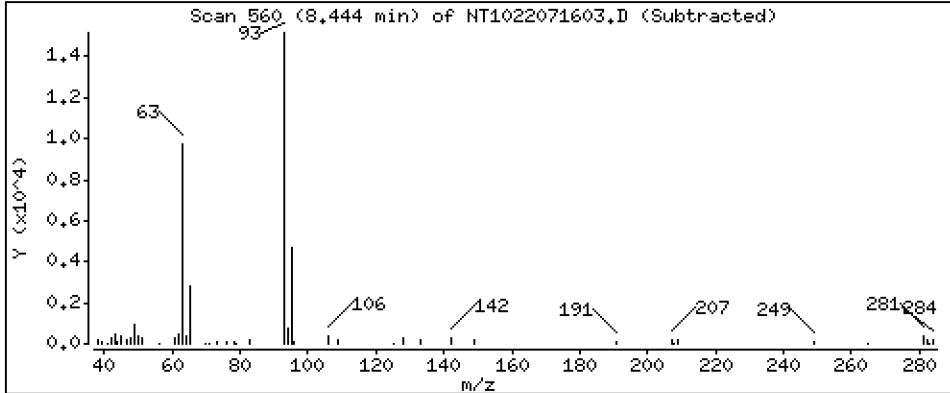
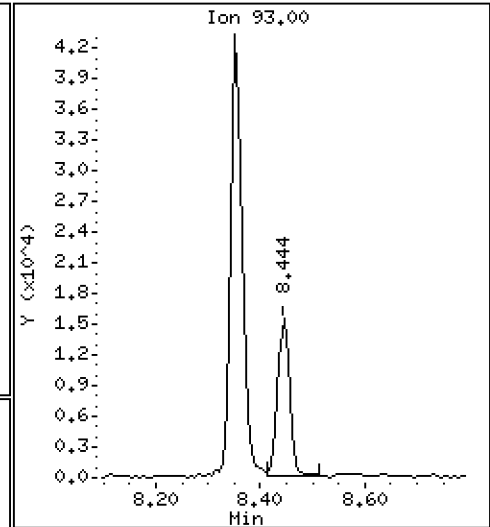
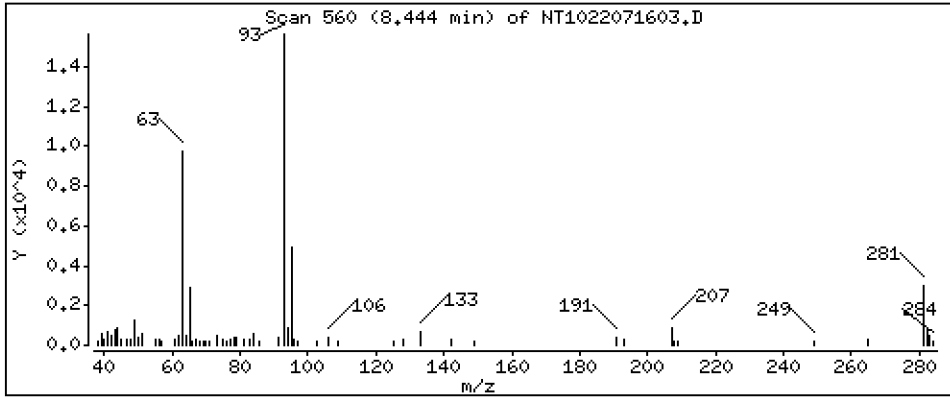
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2102 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

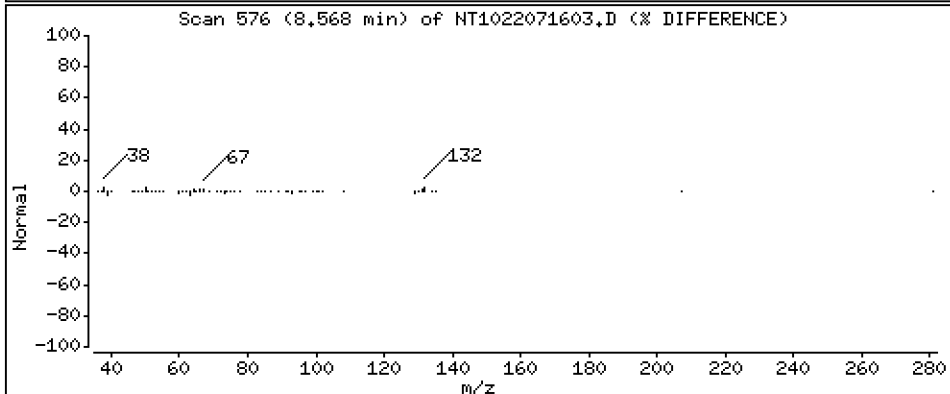
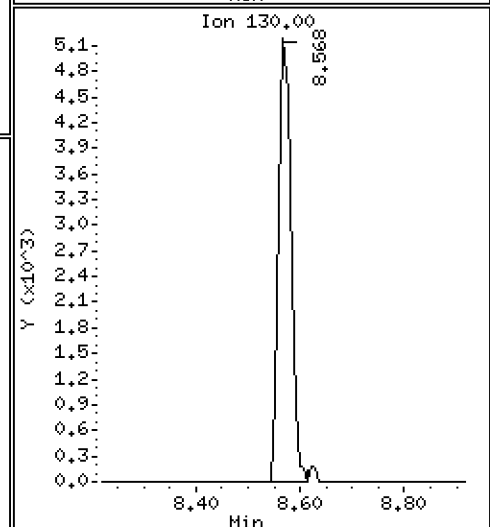
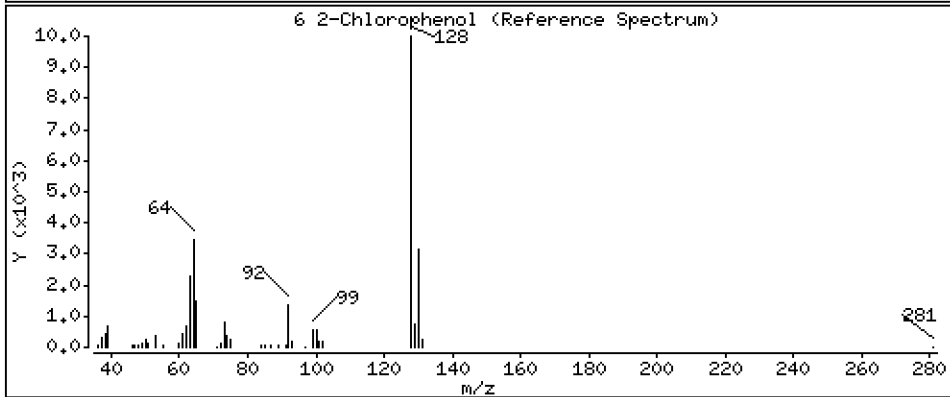
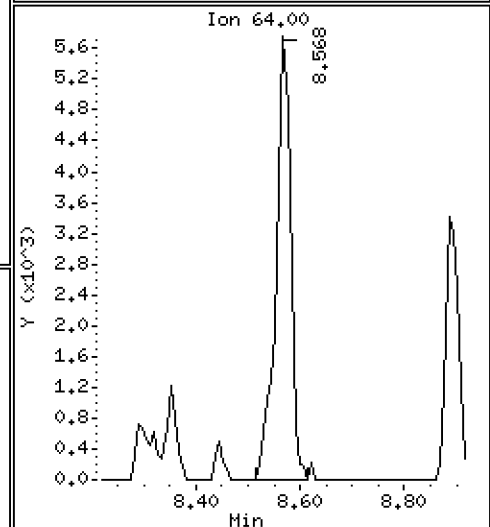
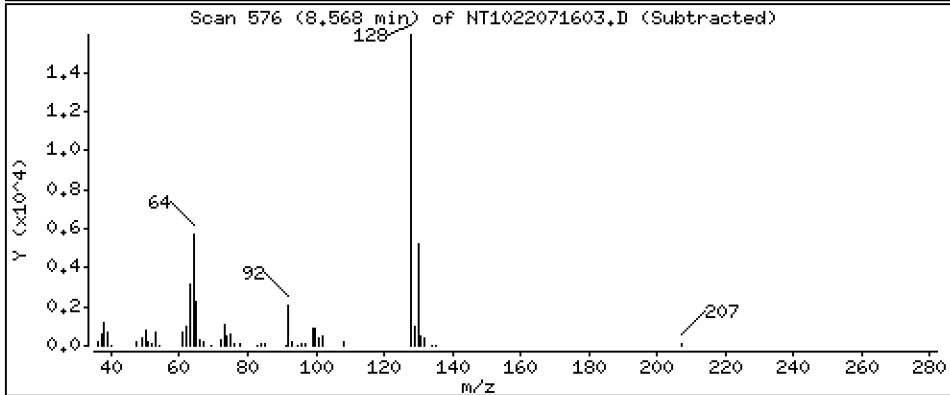
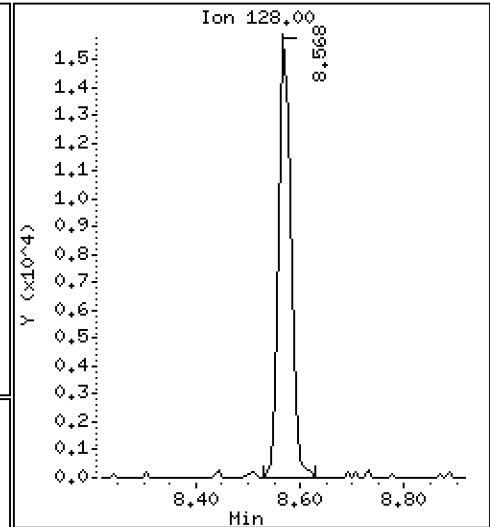
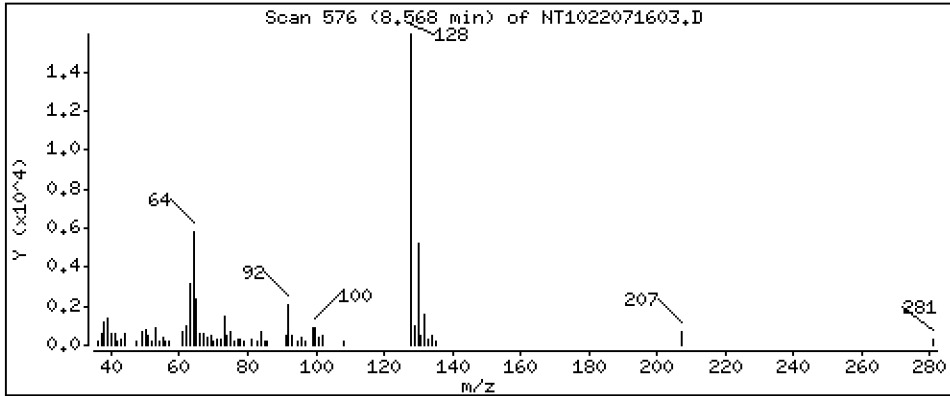
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,2009 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

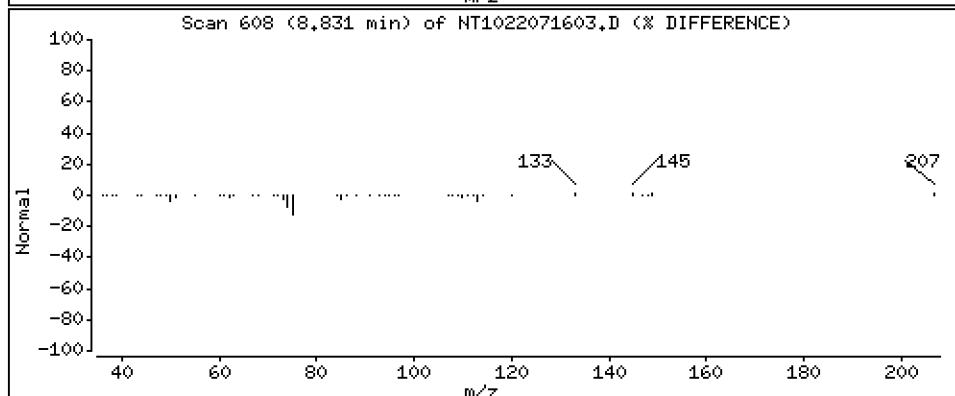
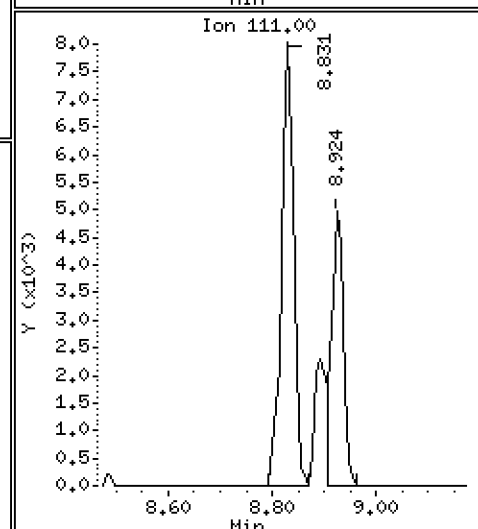
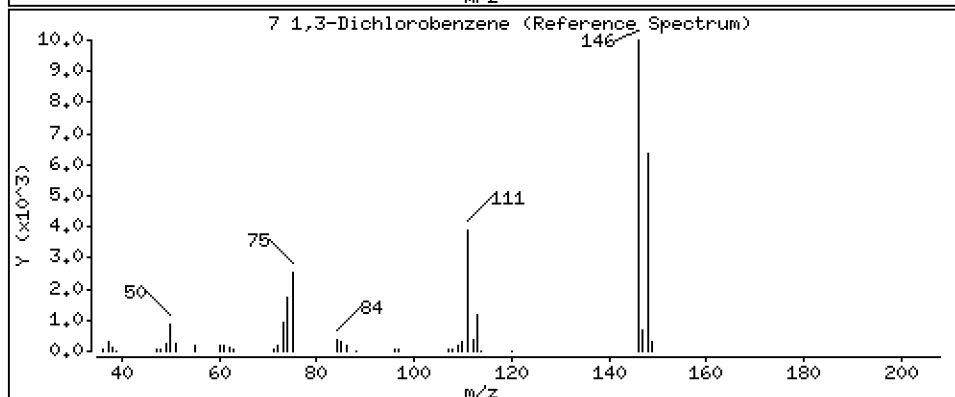
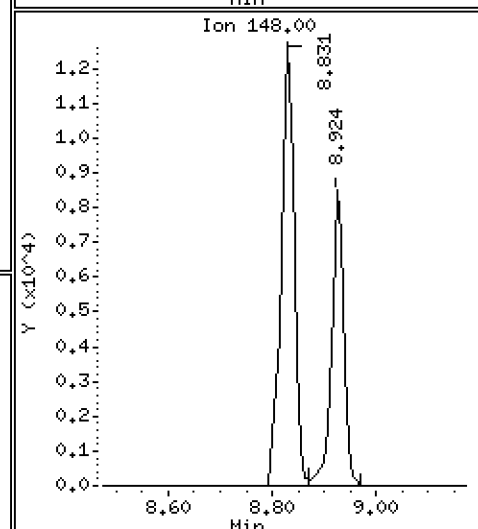
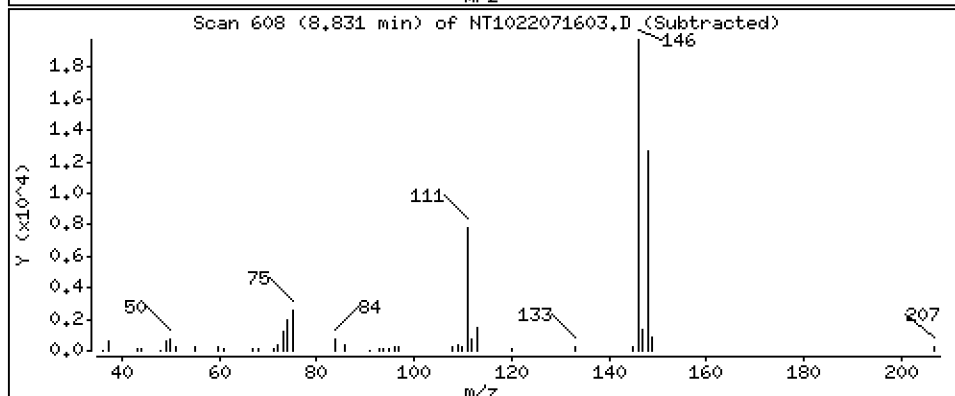
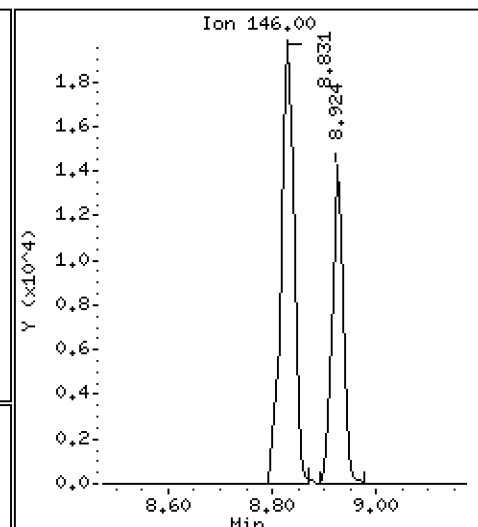
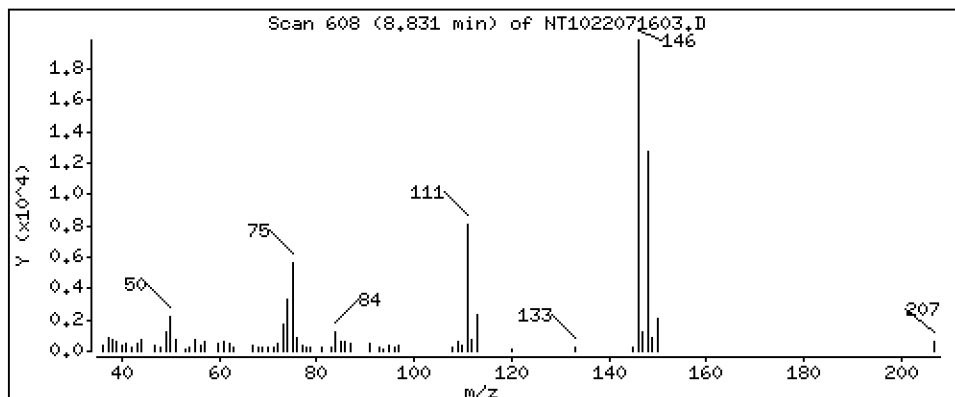
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2794 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

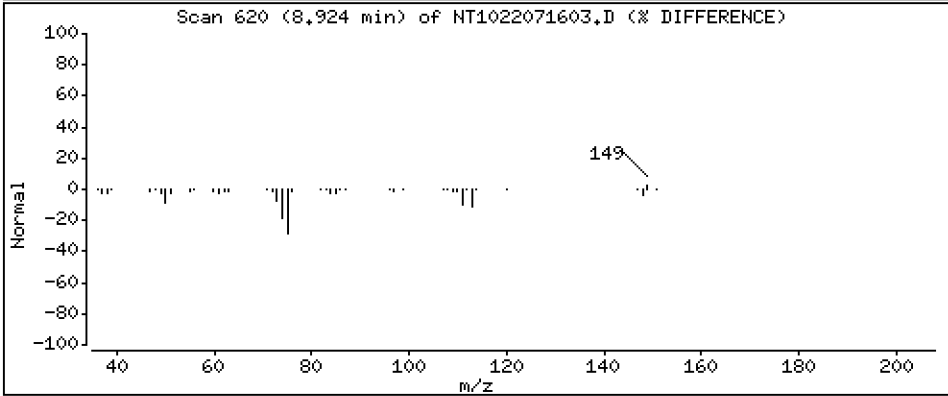
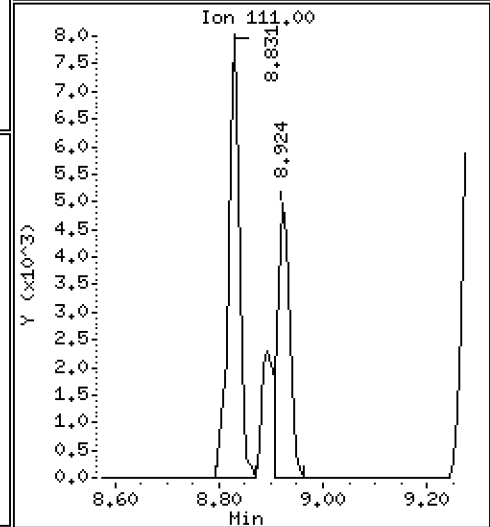
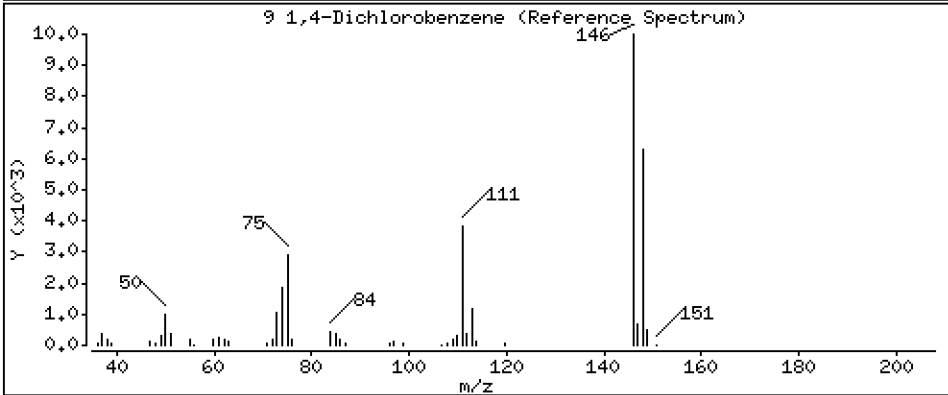
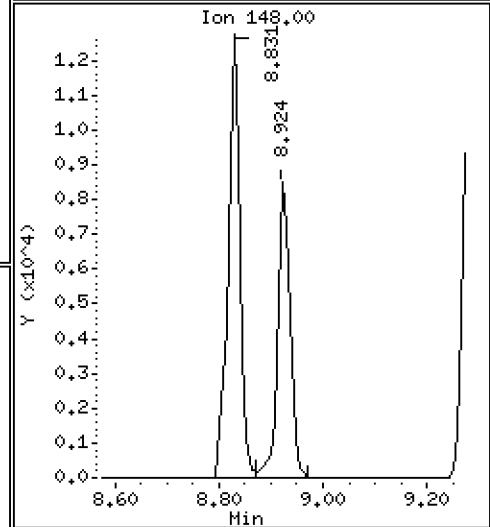
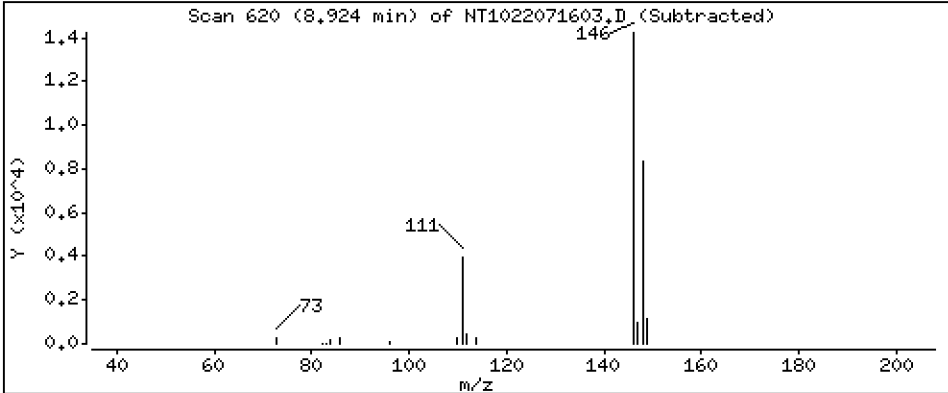
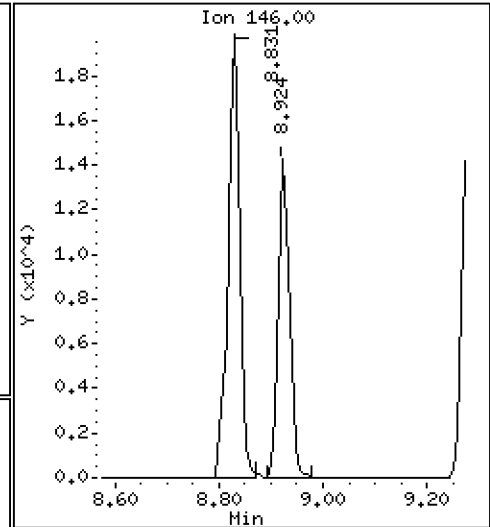
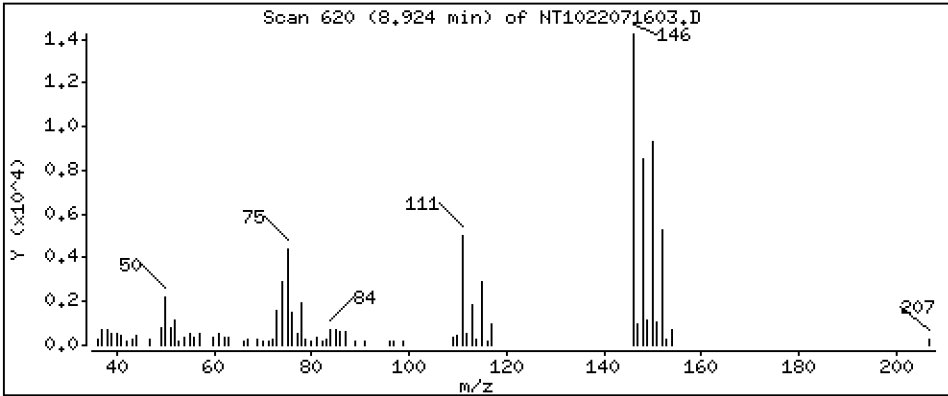
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2006 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

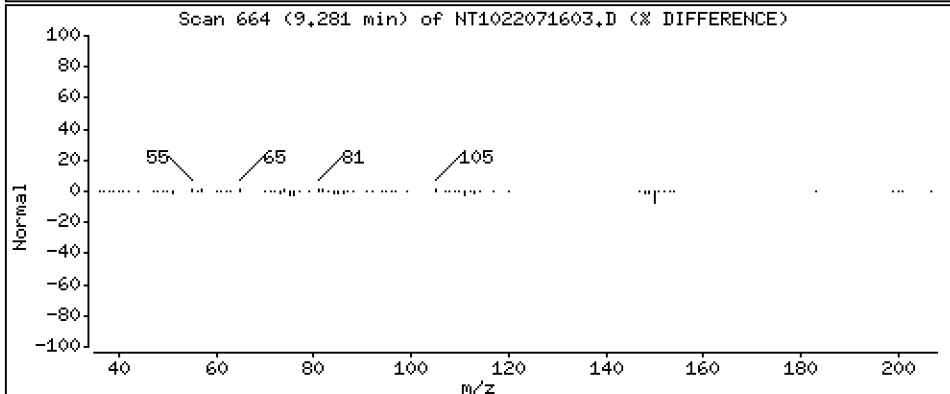
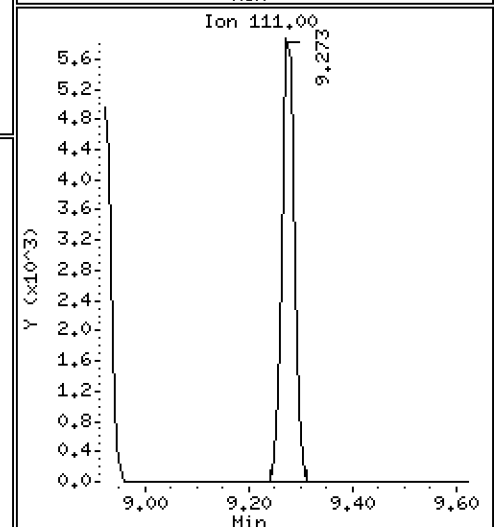
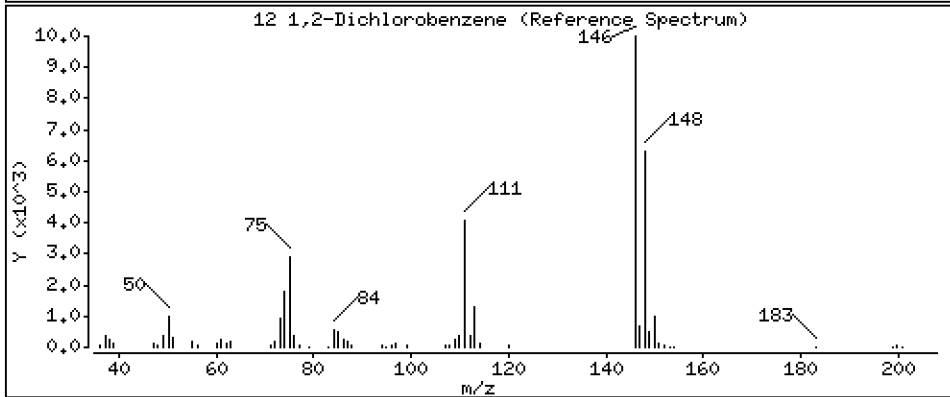
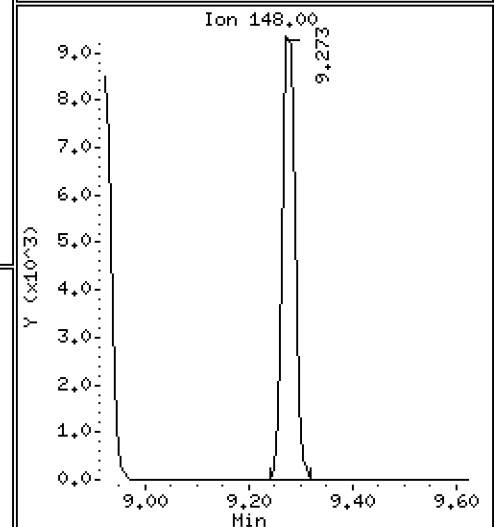
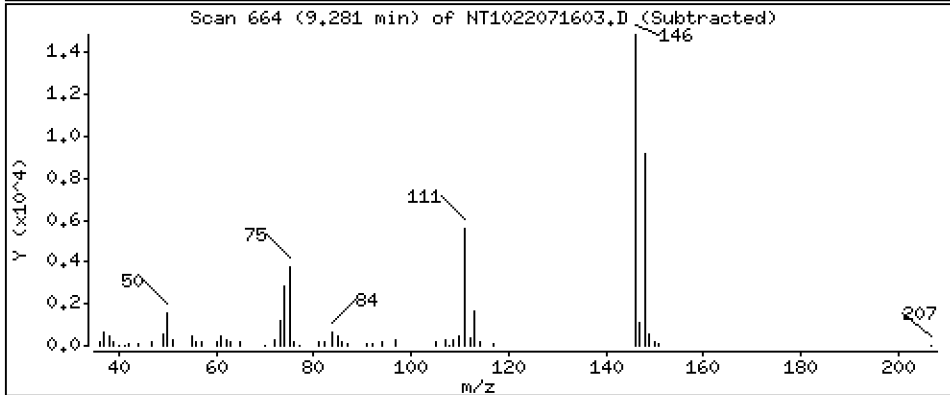
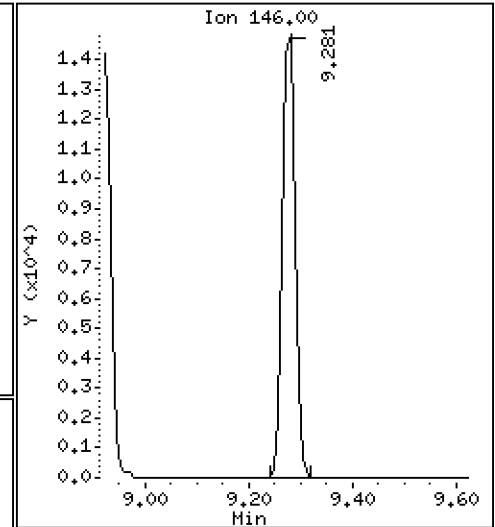
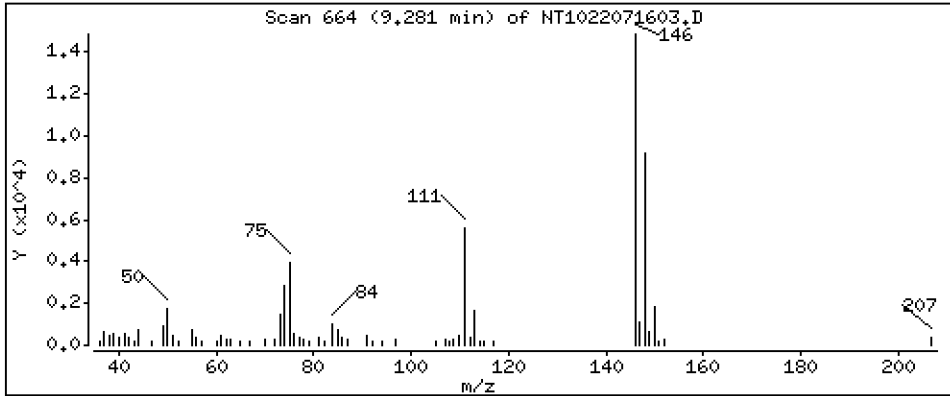
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2166 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

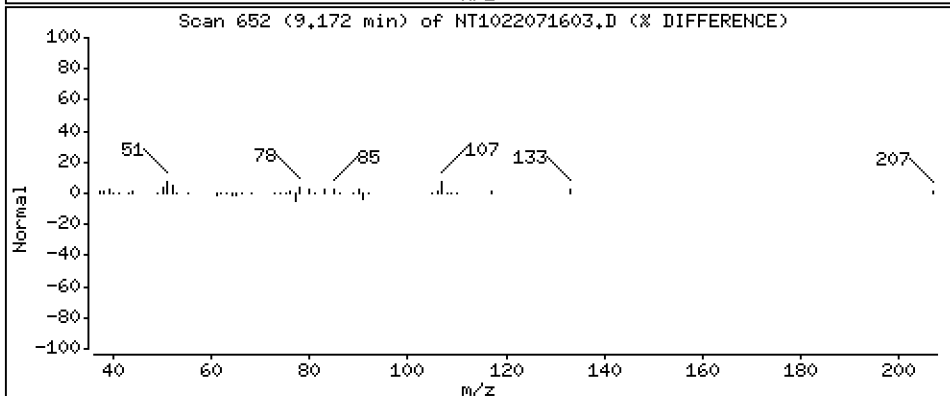
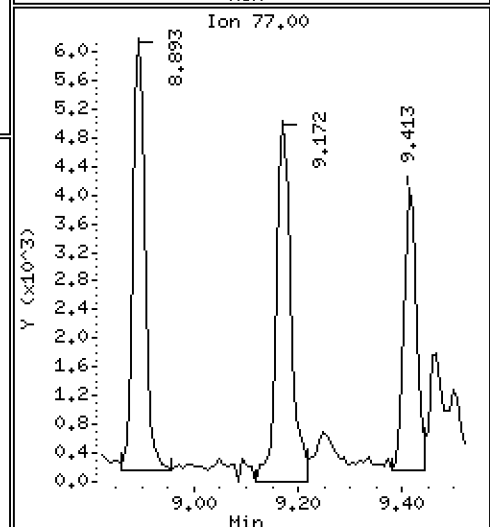
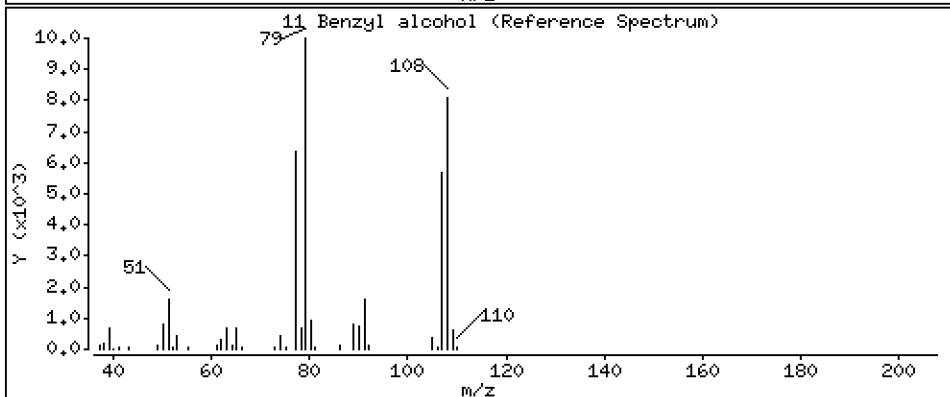
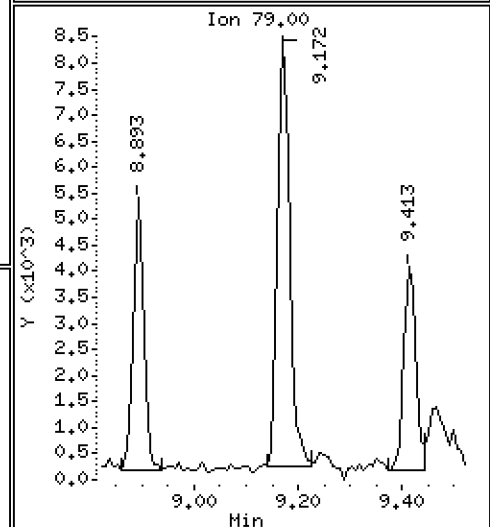
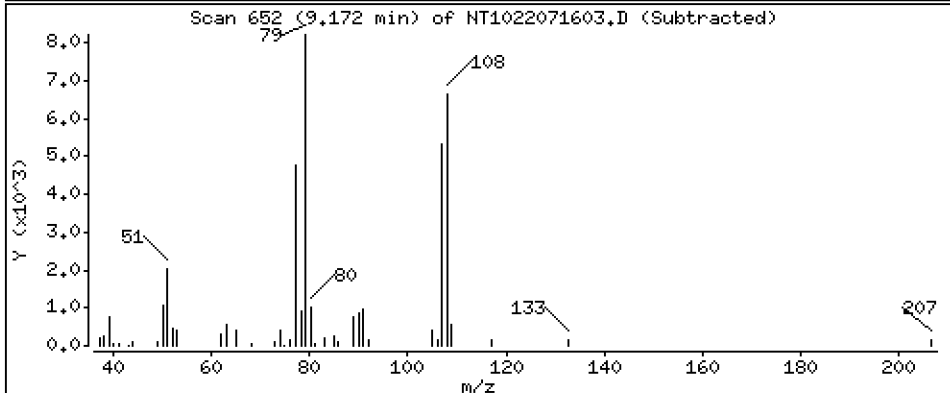
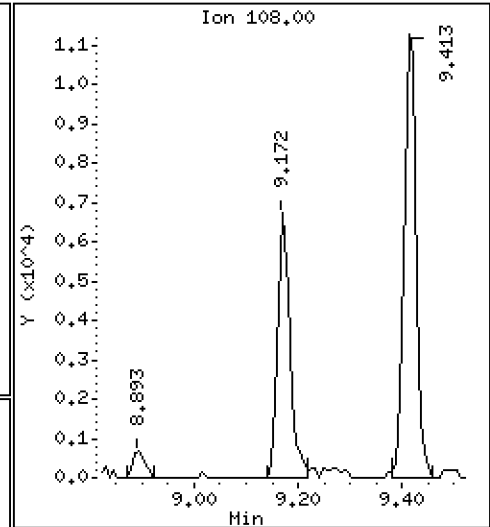
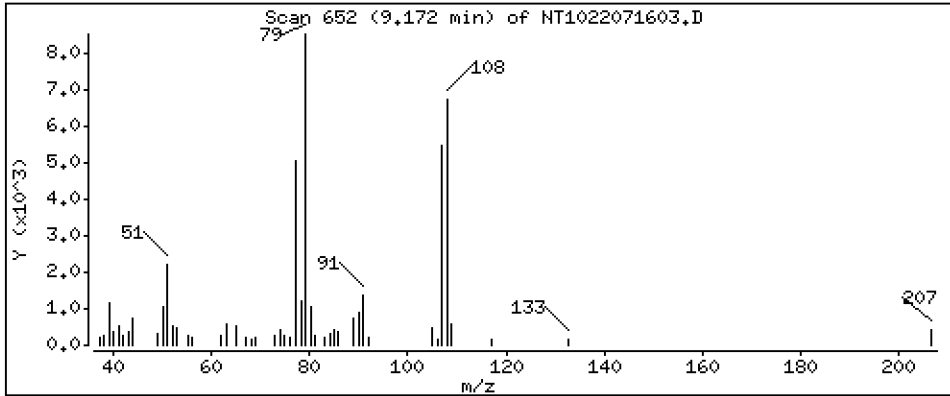
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.2039 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

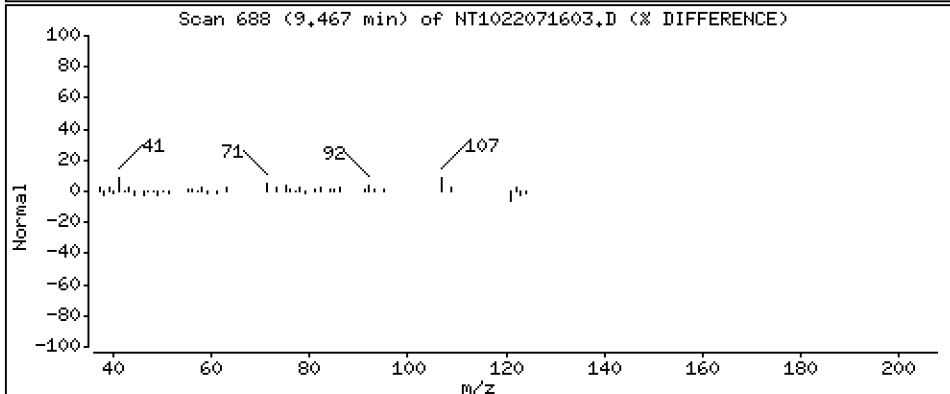
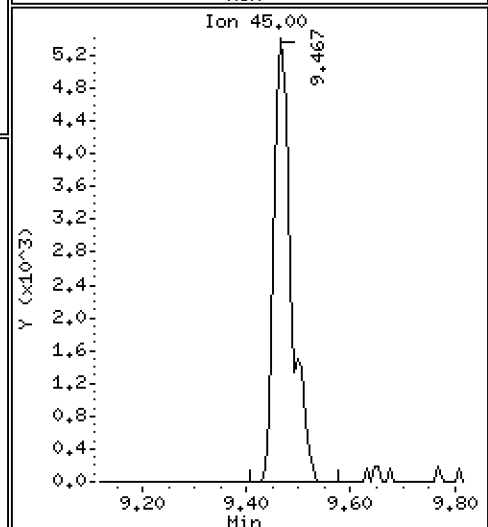
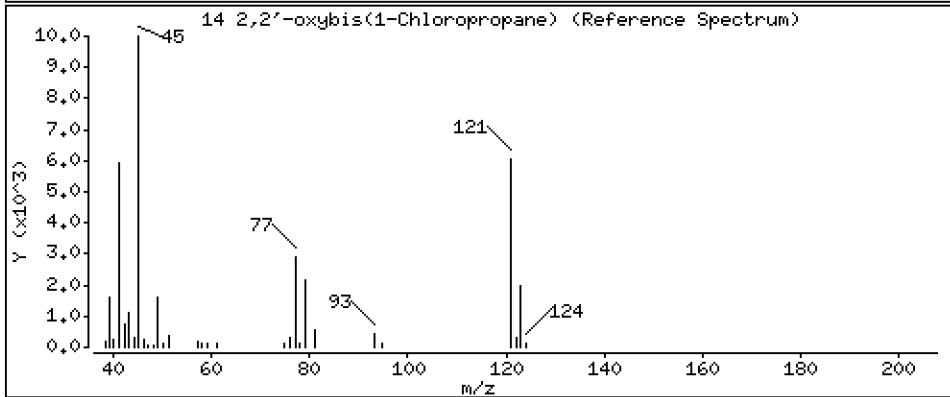
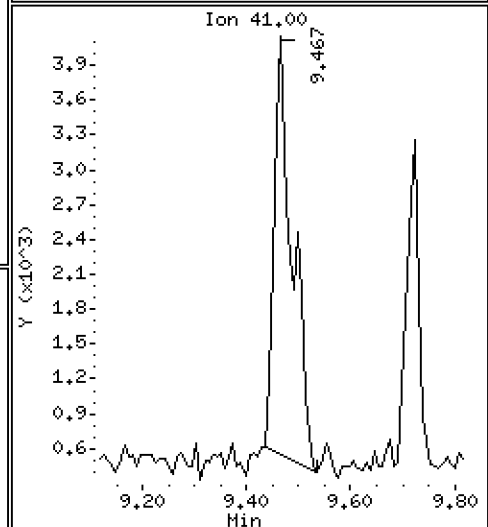
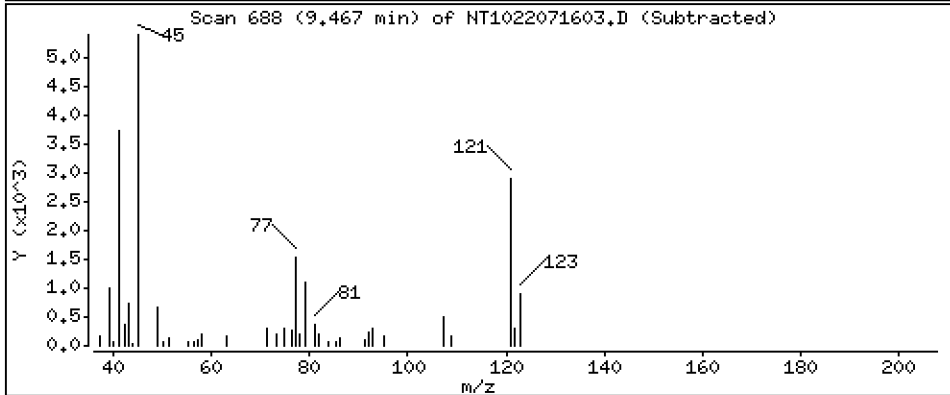
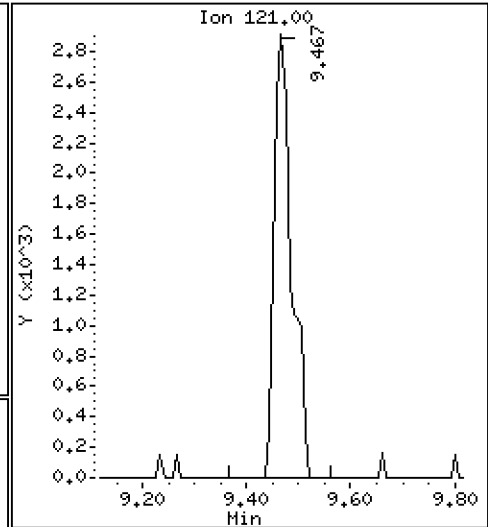
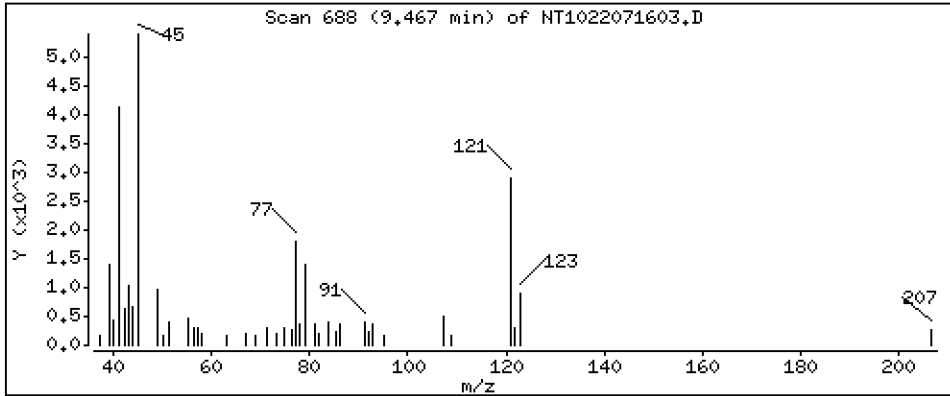
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2548 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

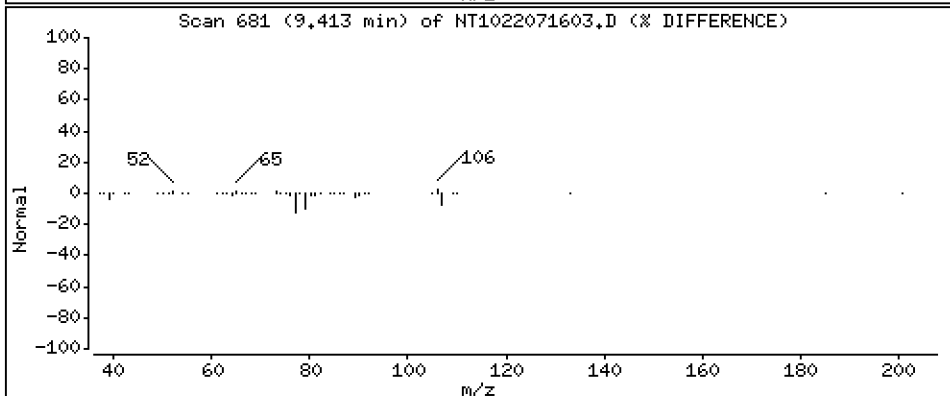
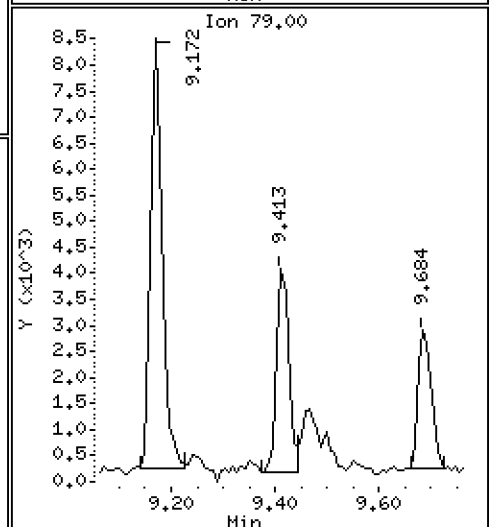
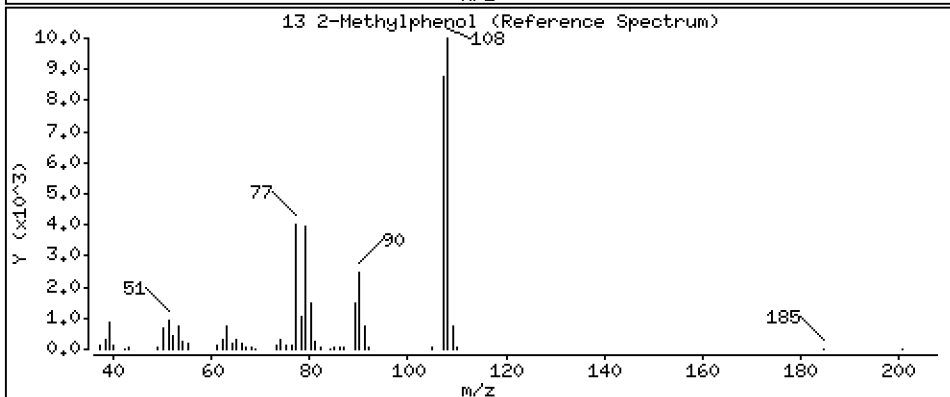
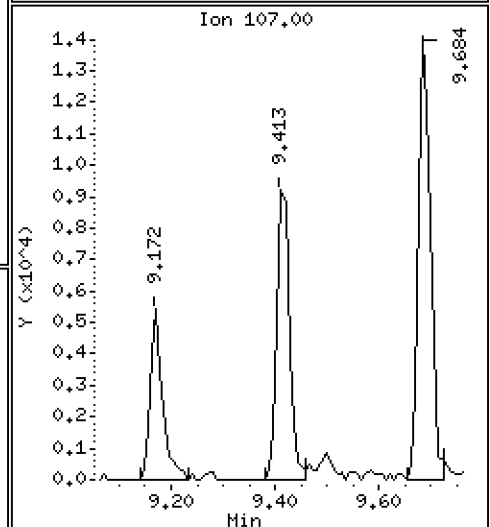
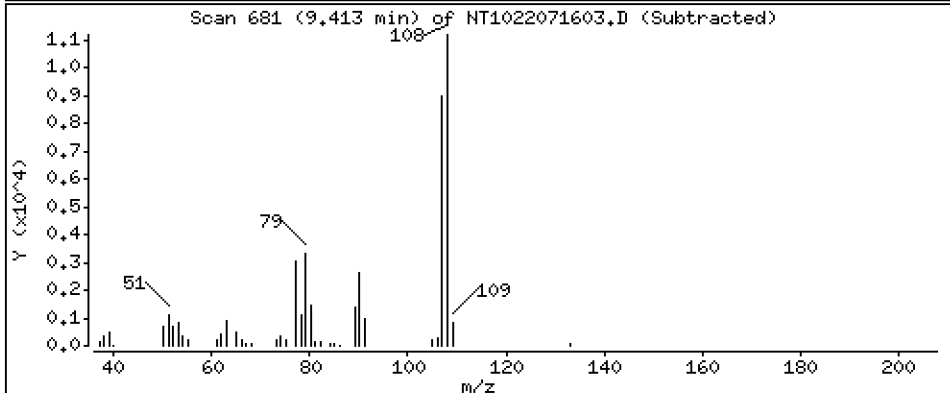
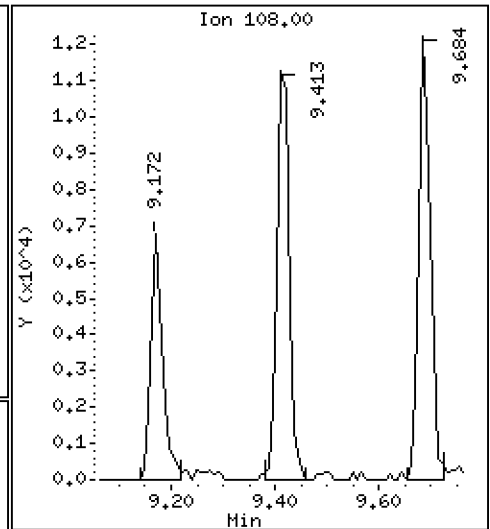
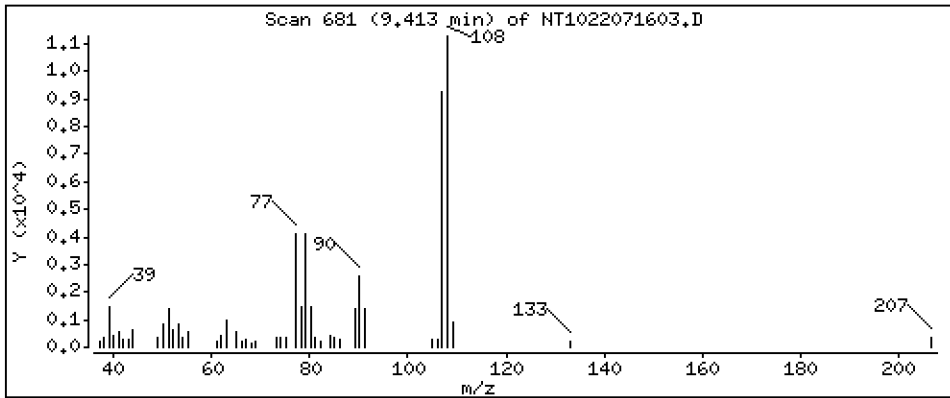
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1833 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

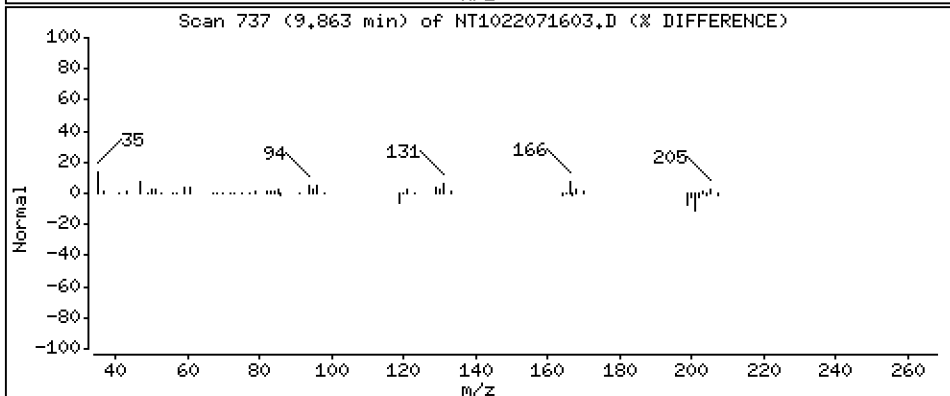
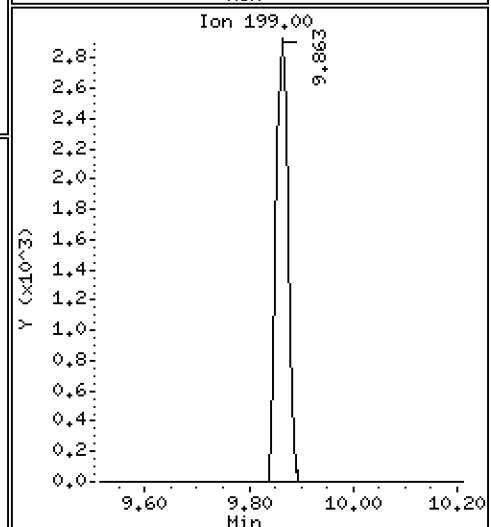
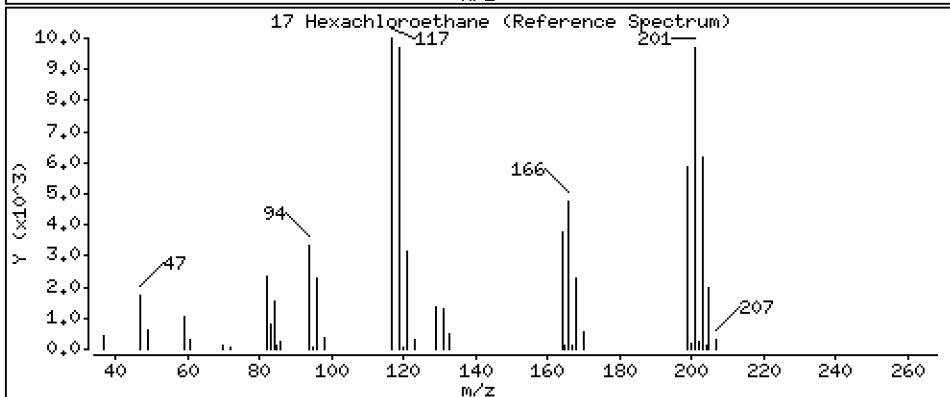
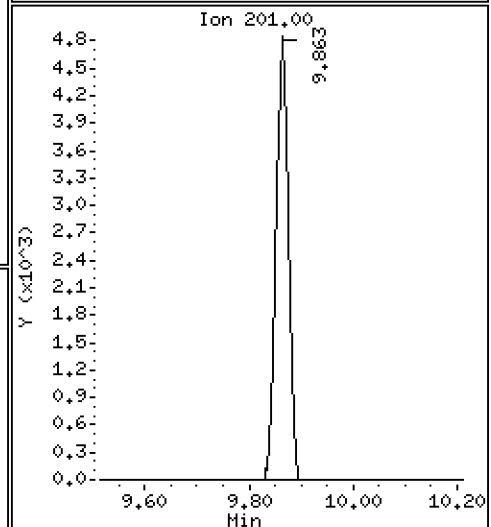
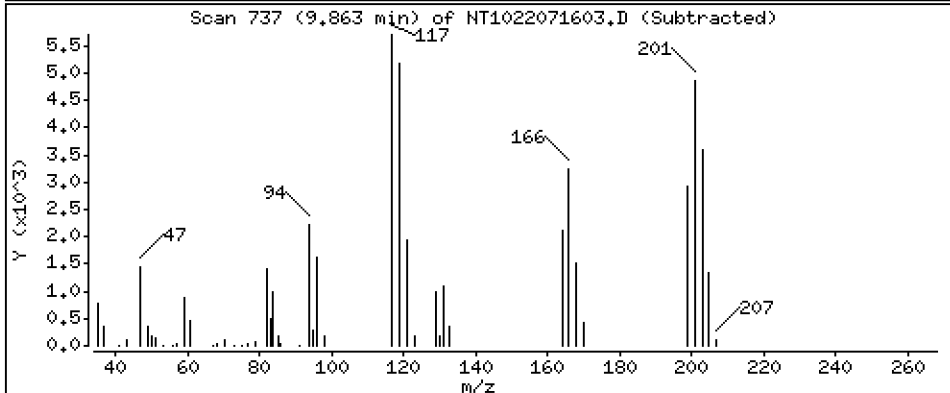
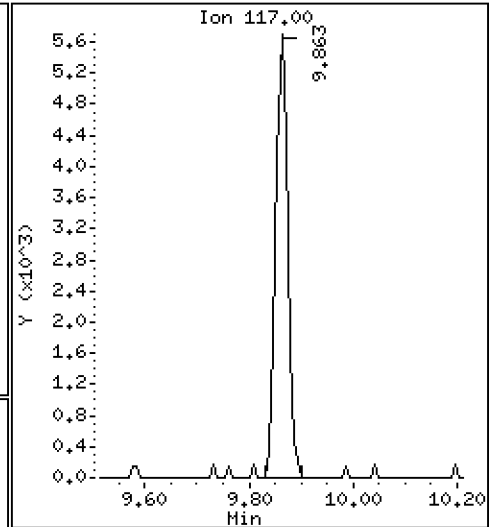
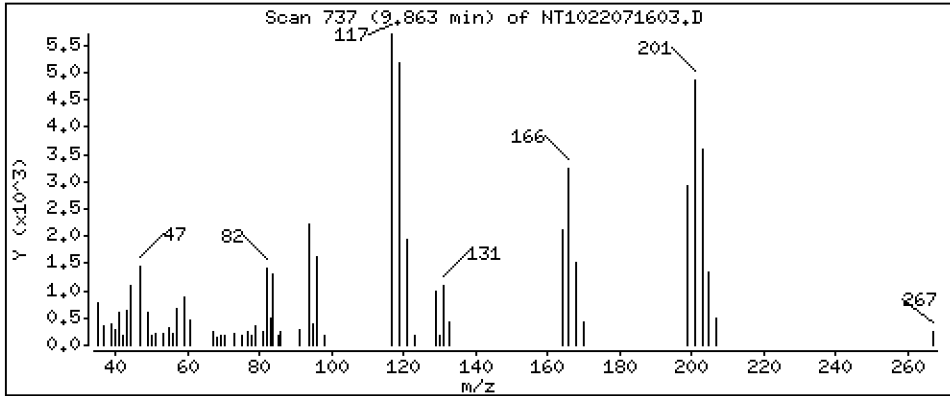
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1867 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

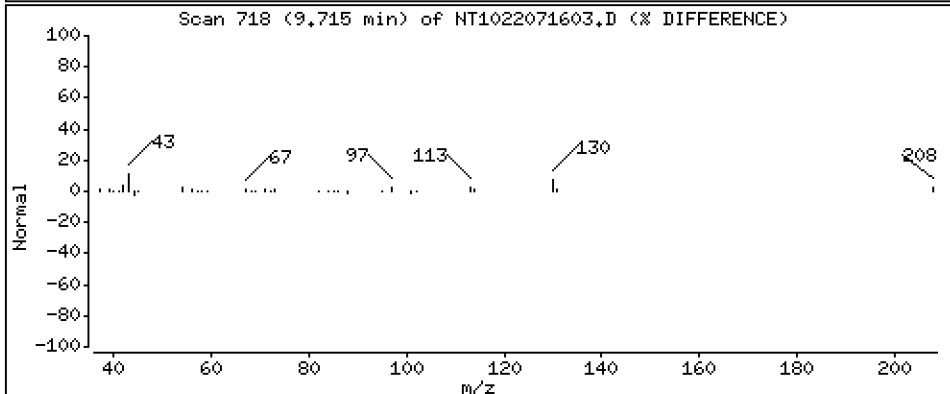
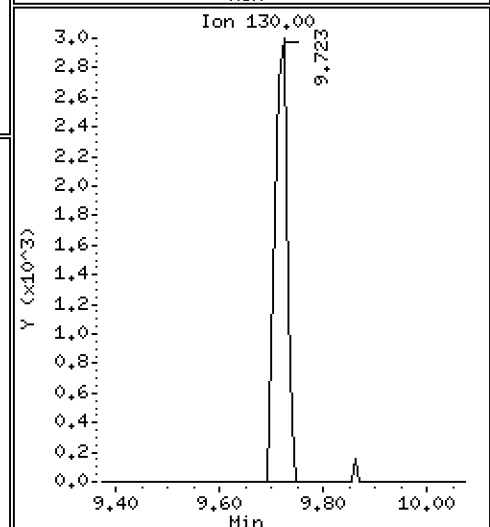
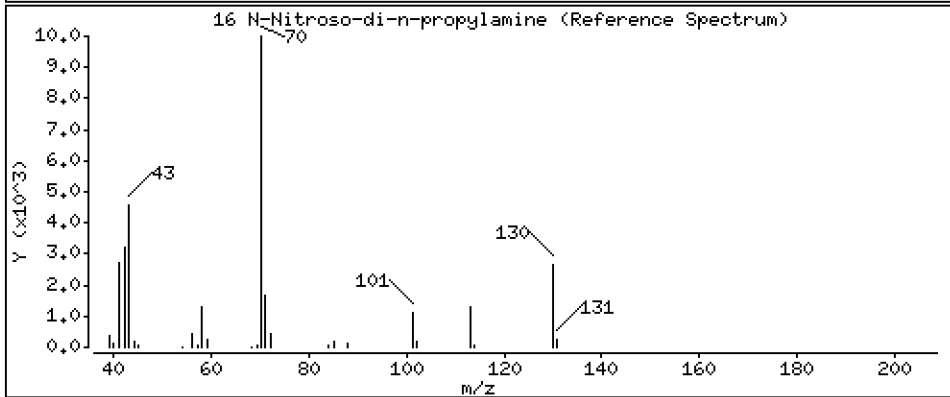
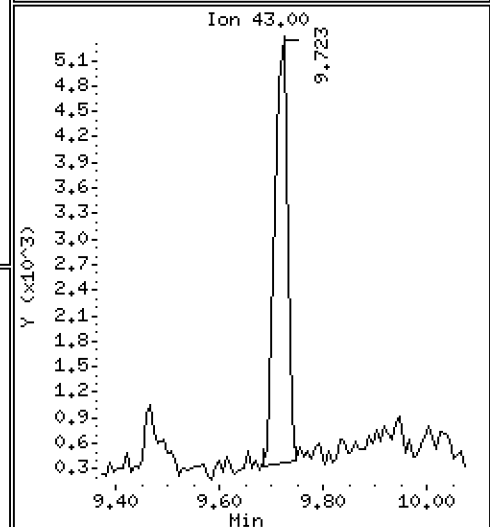
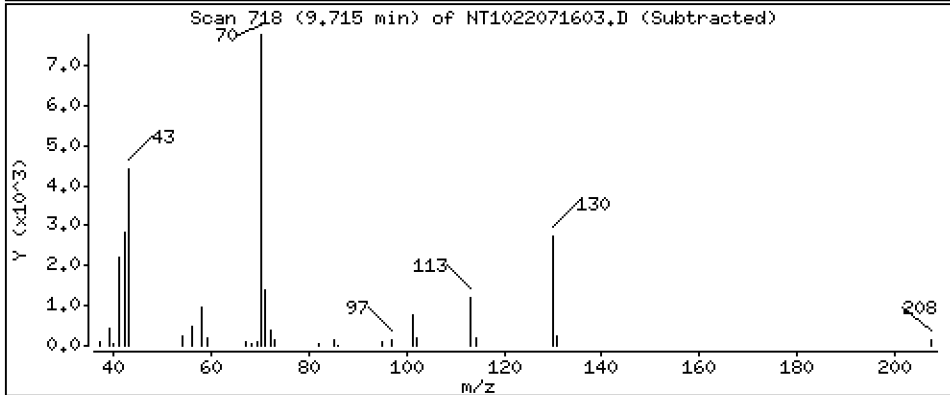
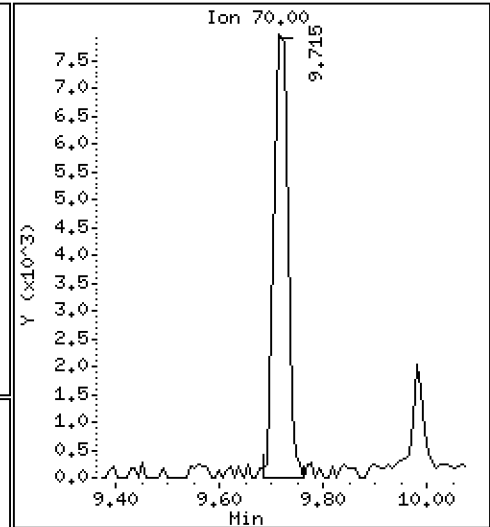
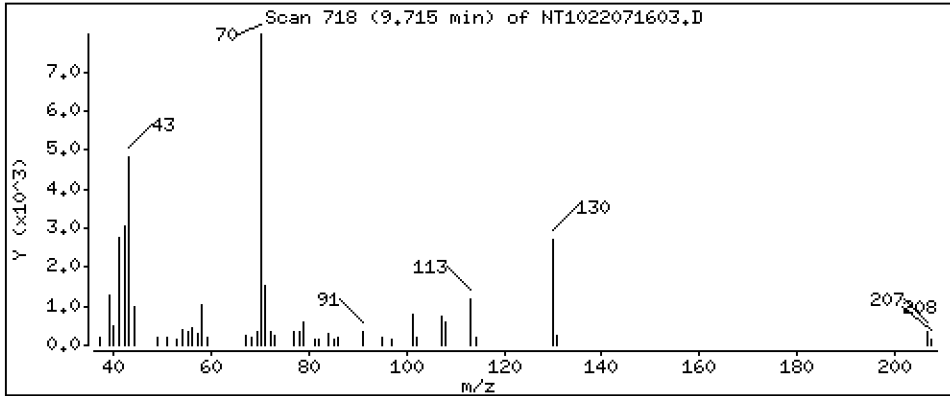
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.1999 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

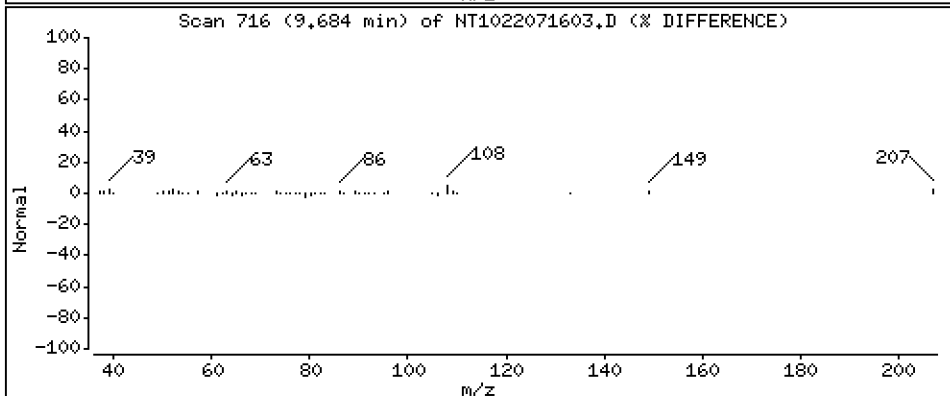
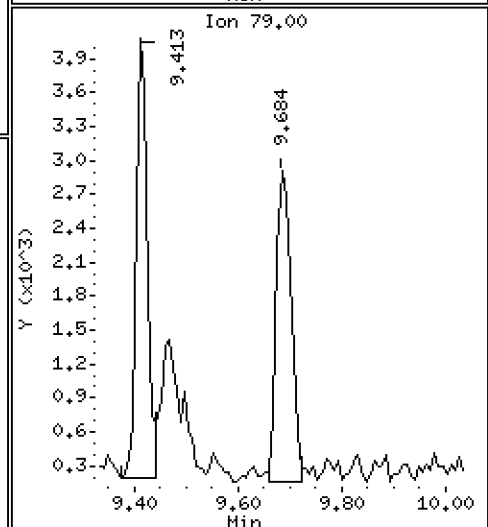
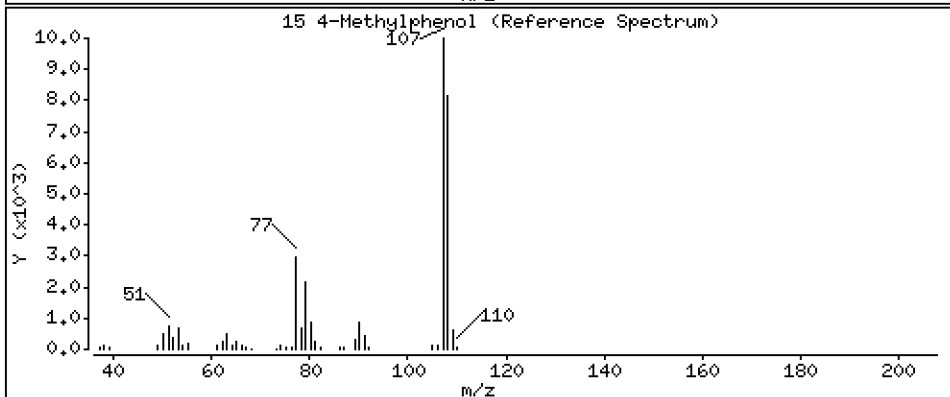
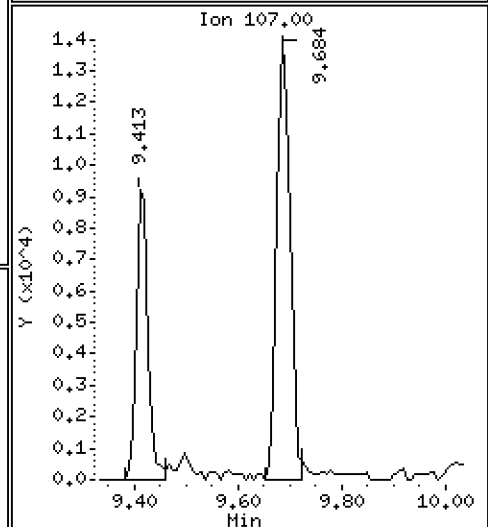
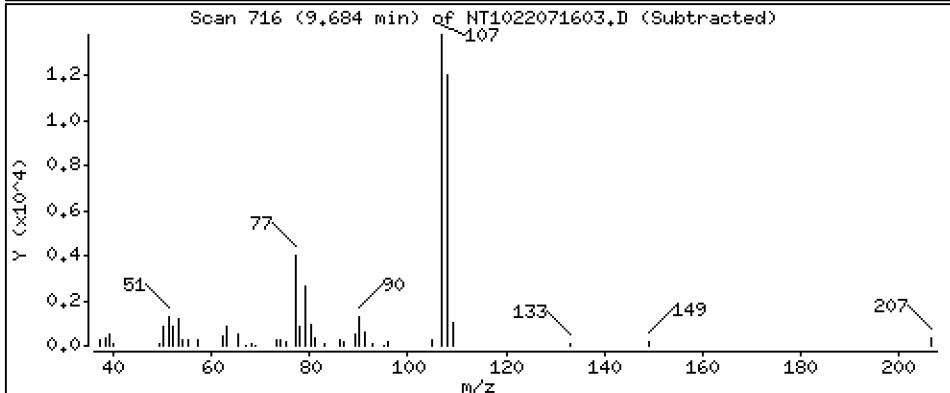
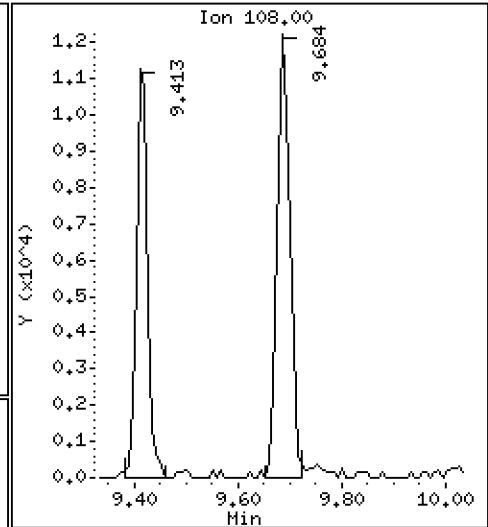
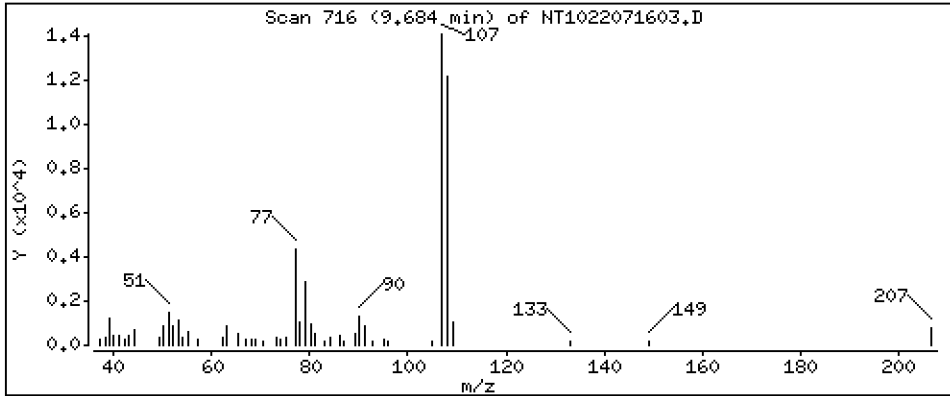
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1945 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

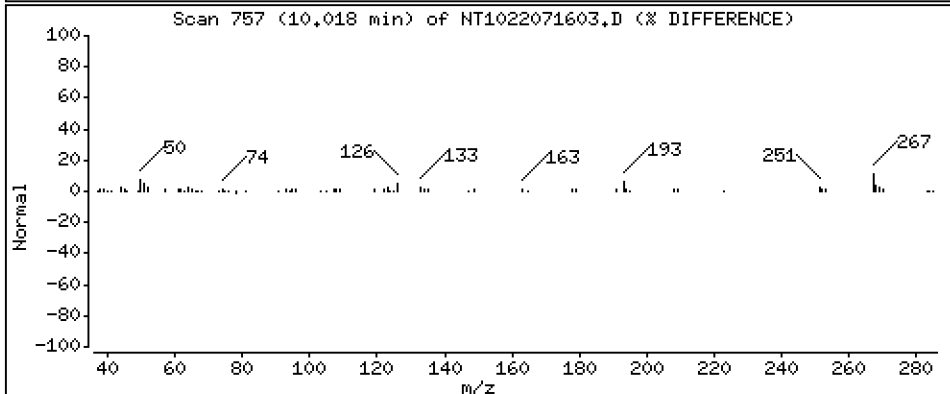
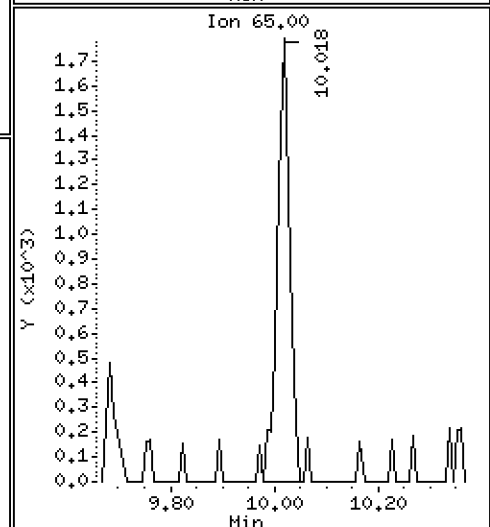
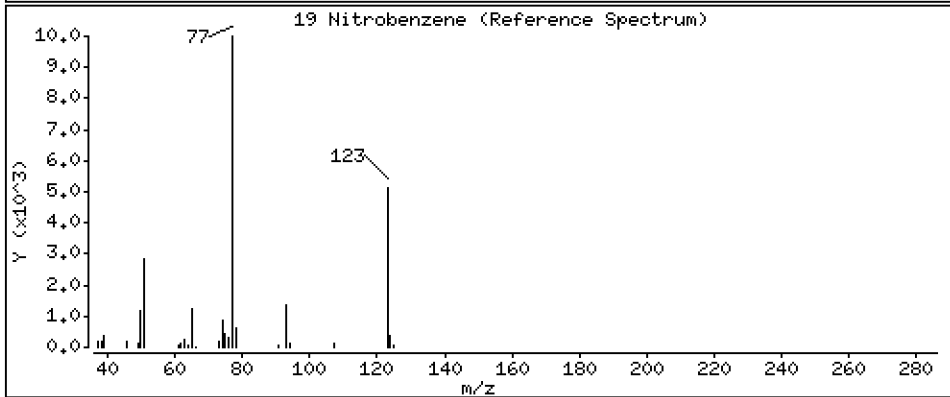
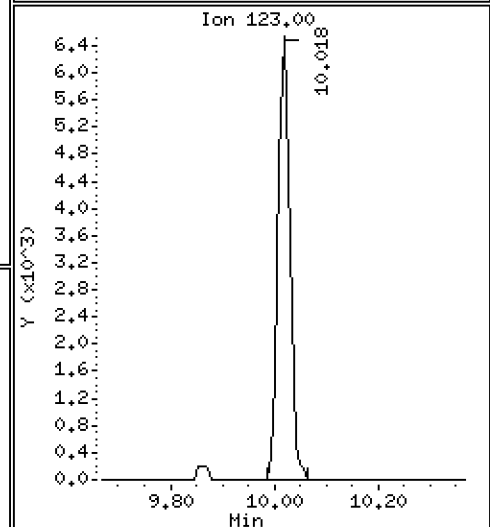
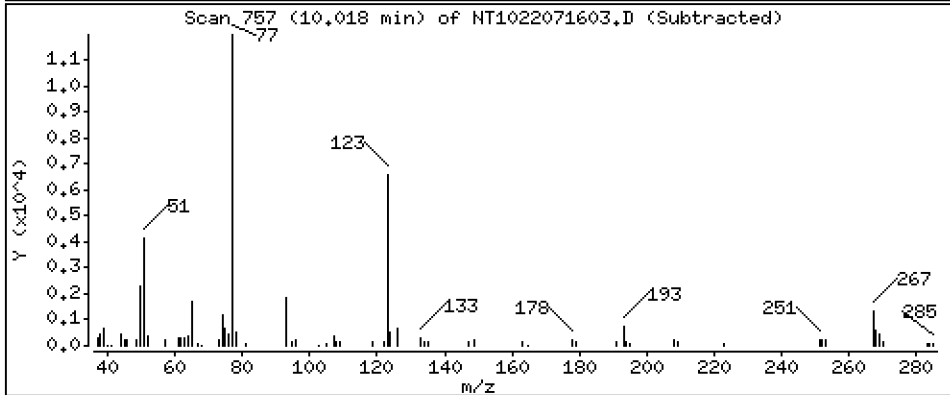
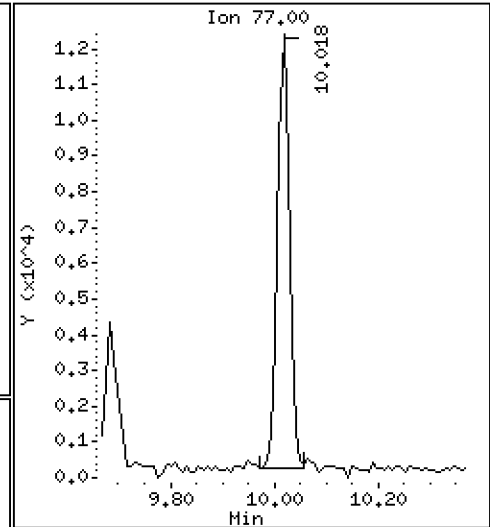
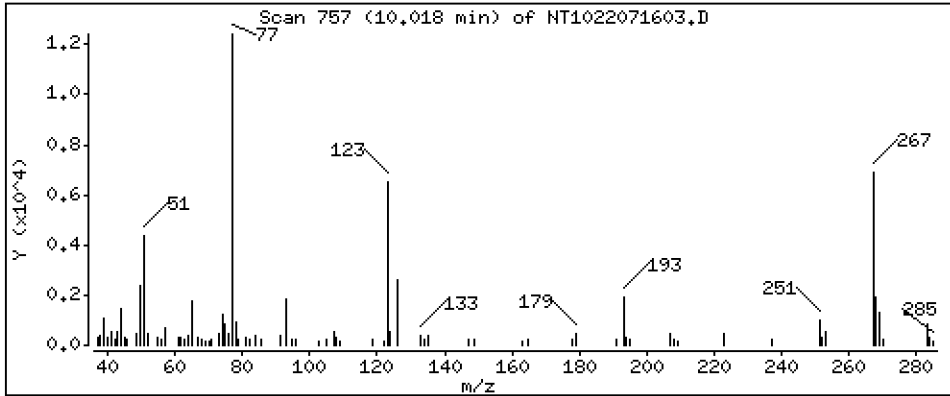
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,1729 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

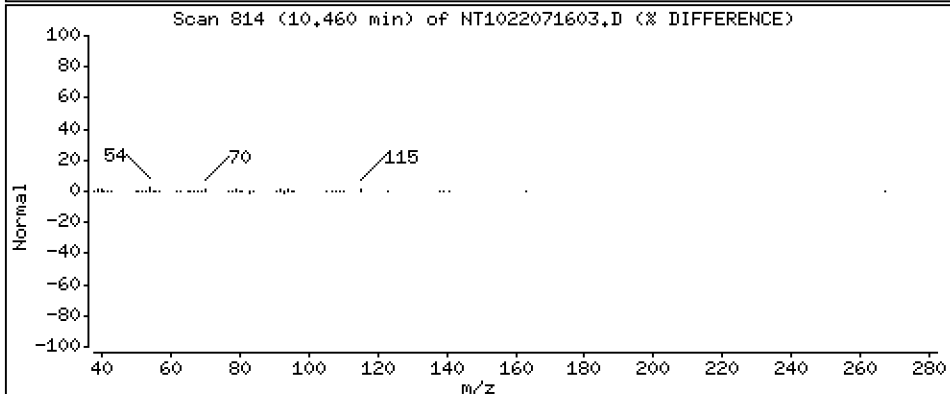
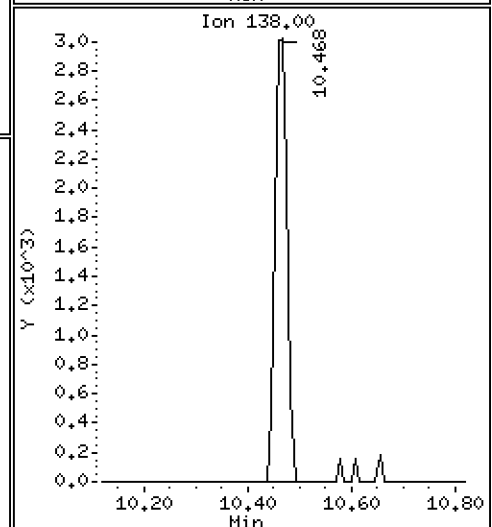
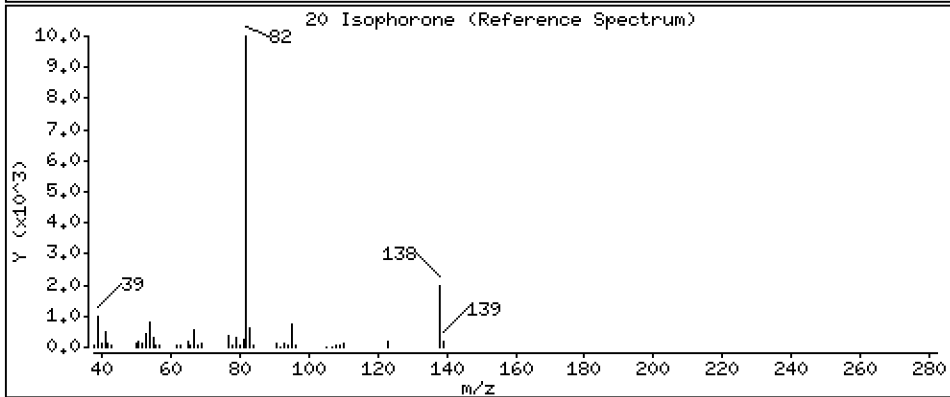
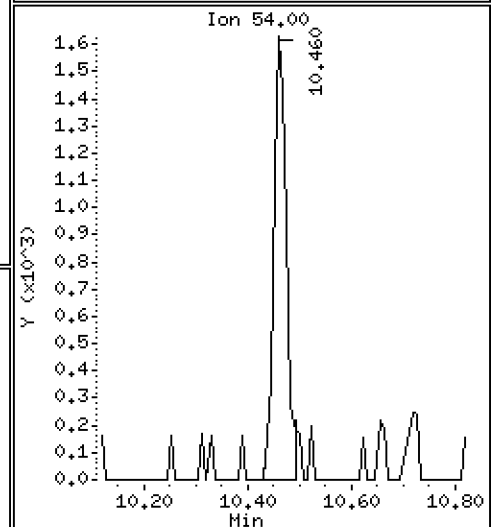
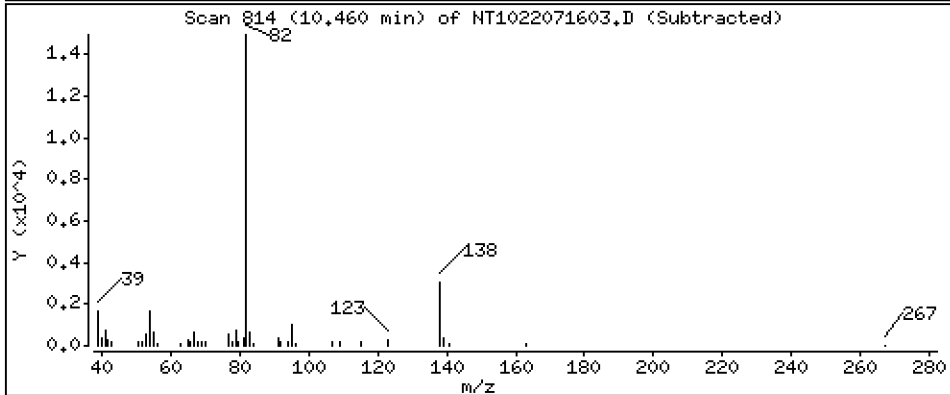
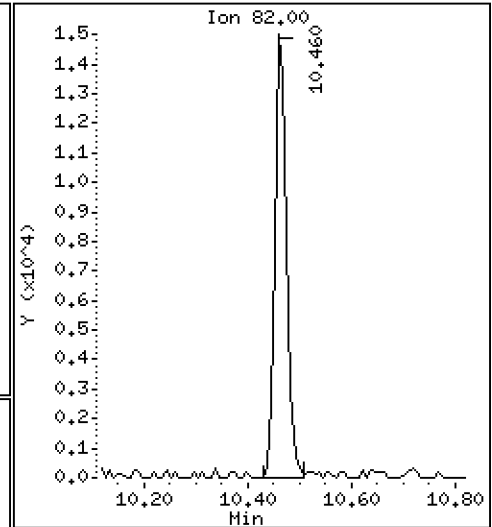
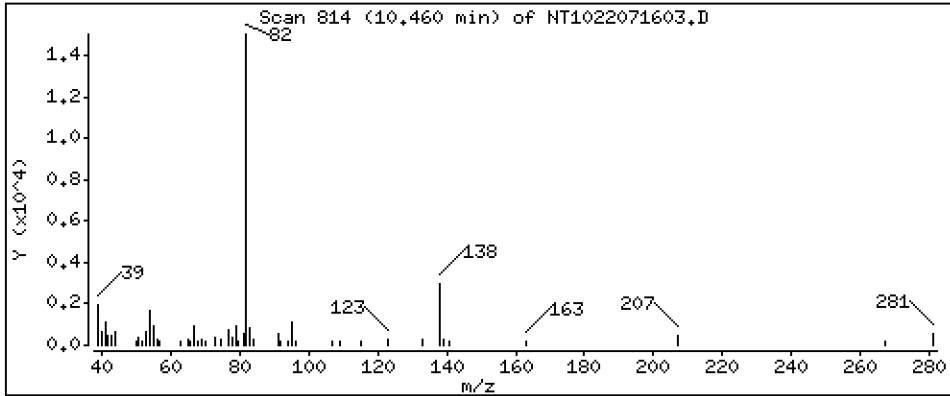
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,1557 ug/mL



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Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

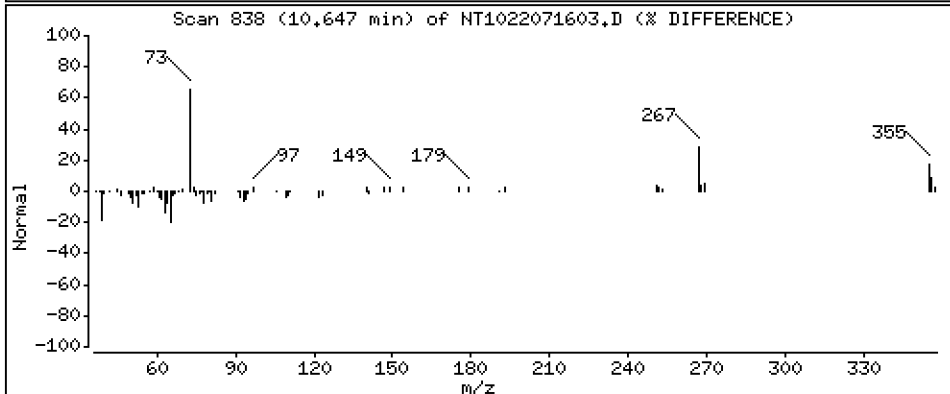
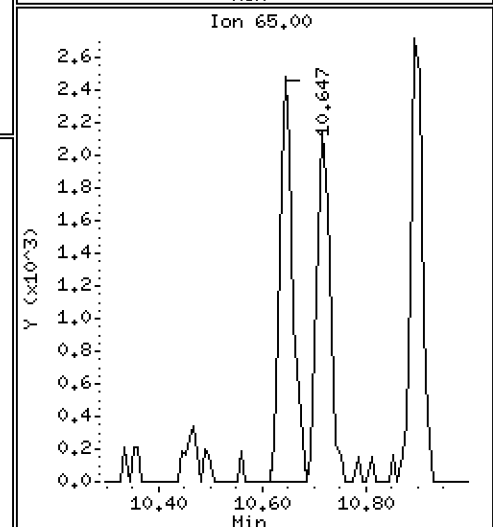
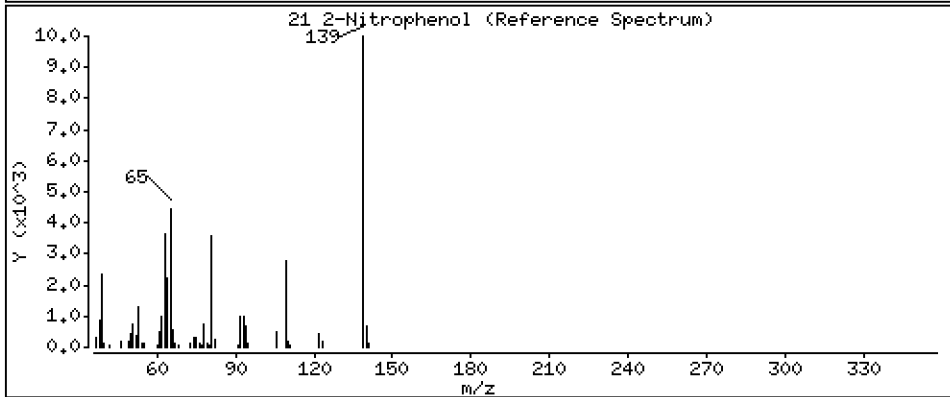
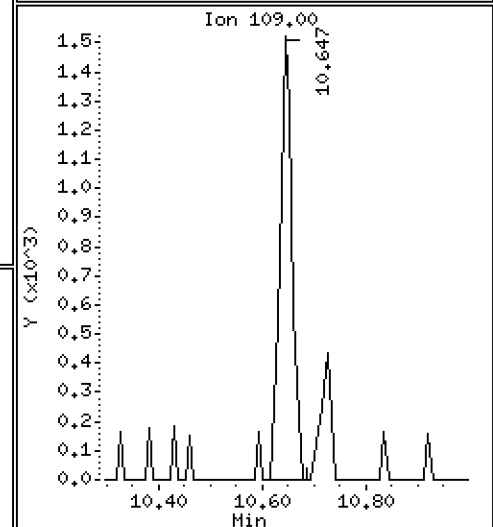
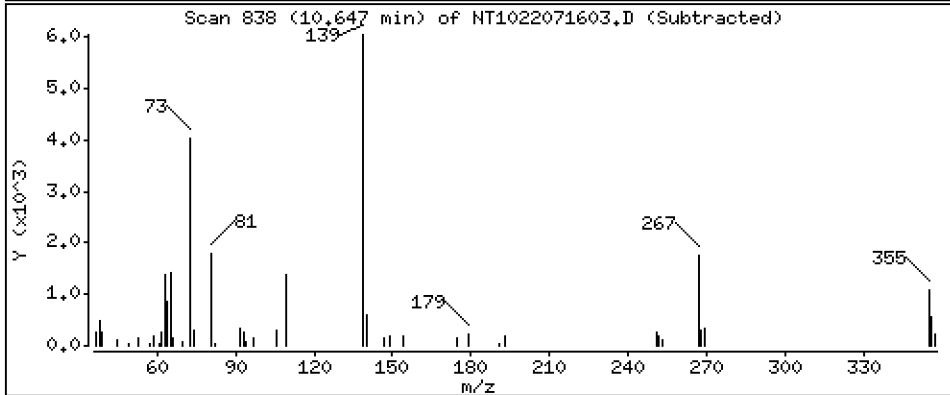
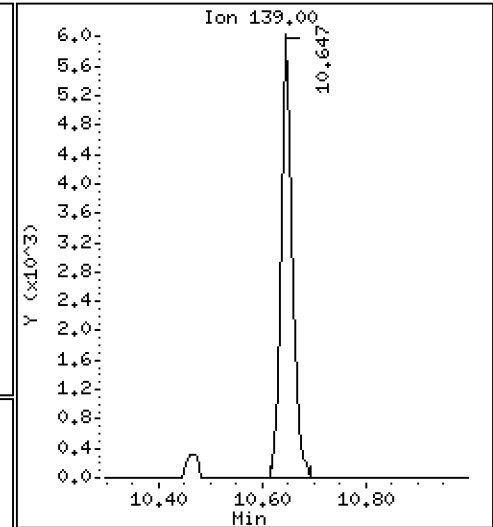
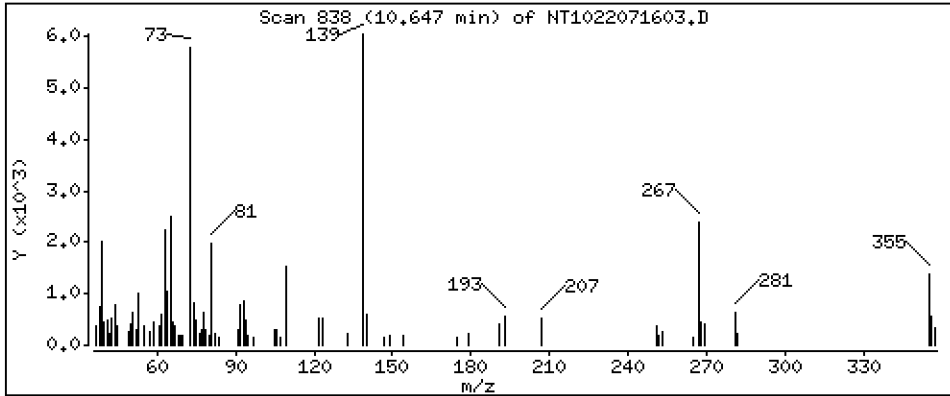
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1351 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

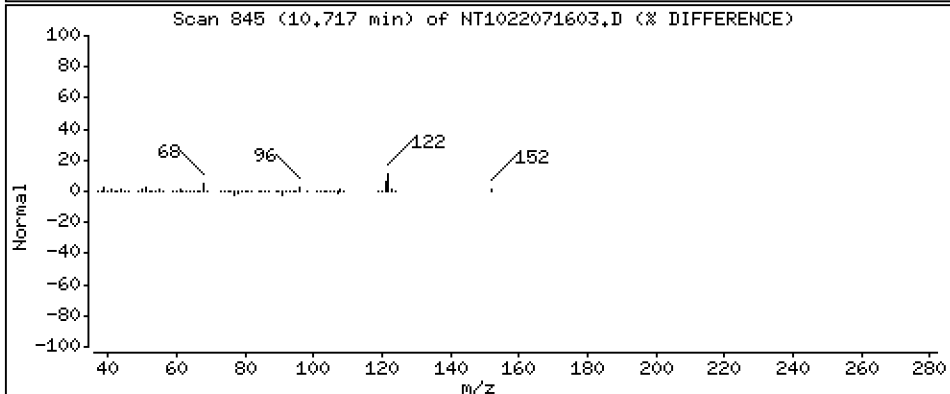
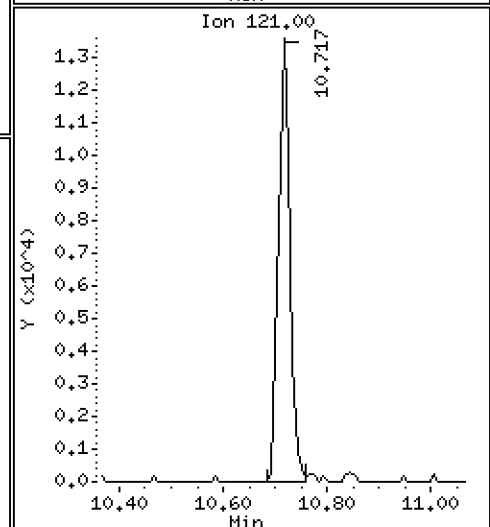
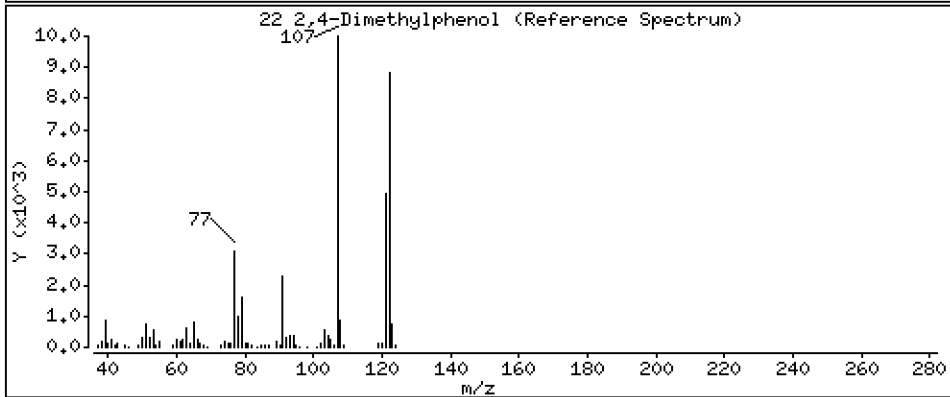
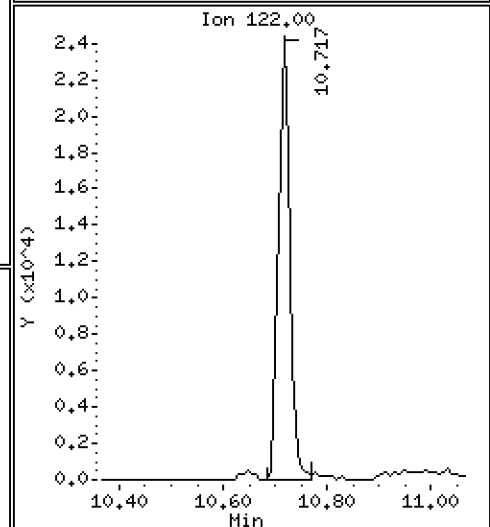
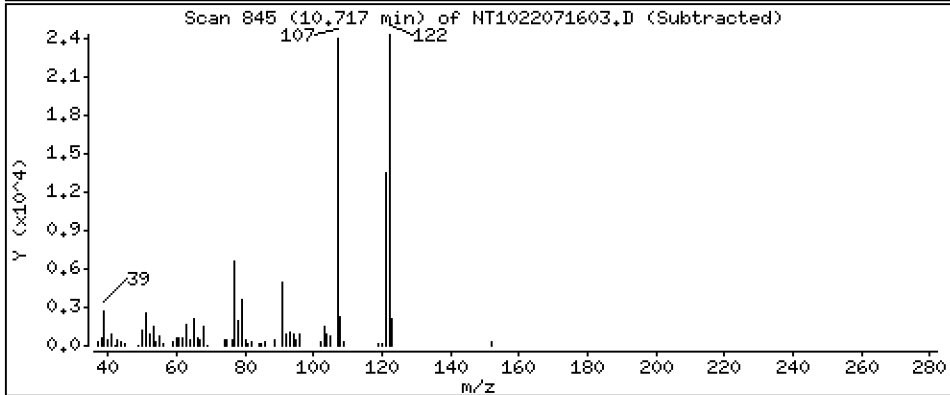
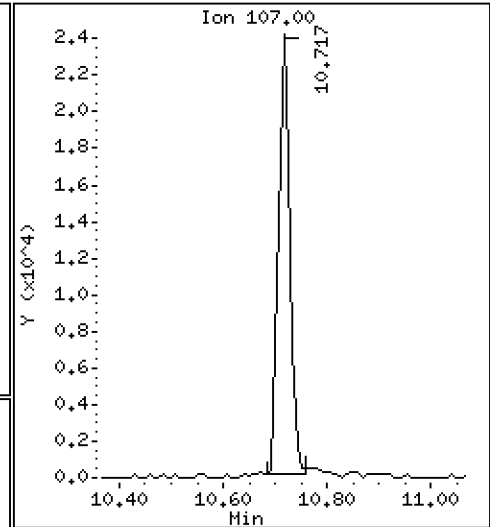
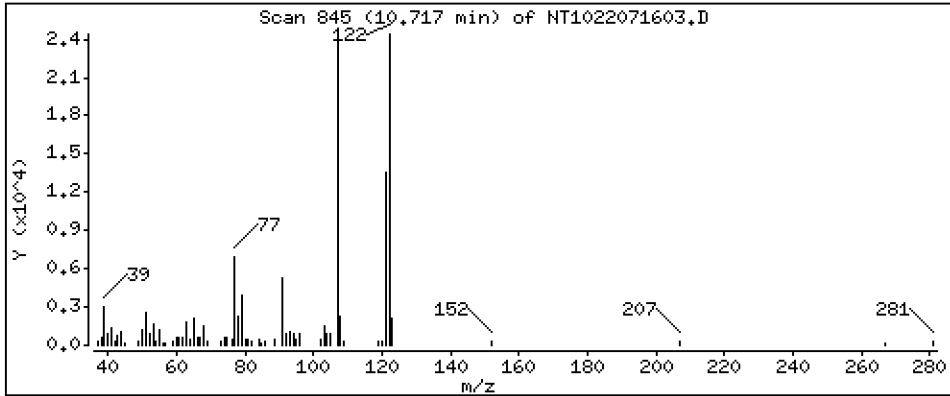
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,3915 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

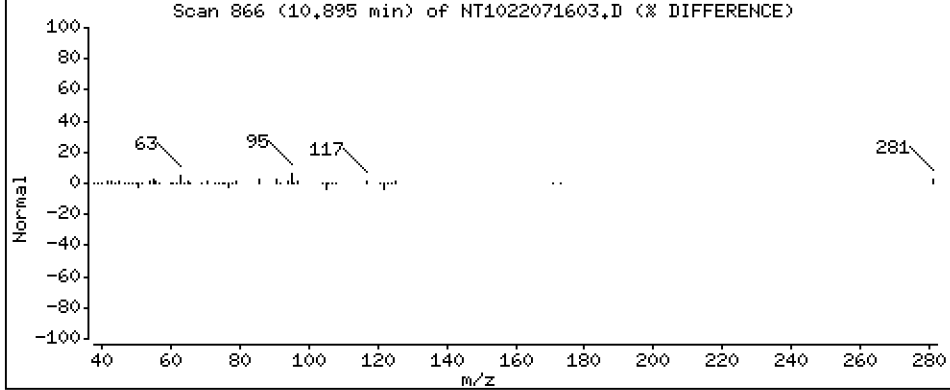
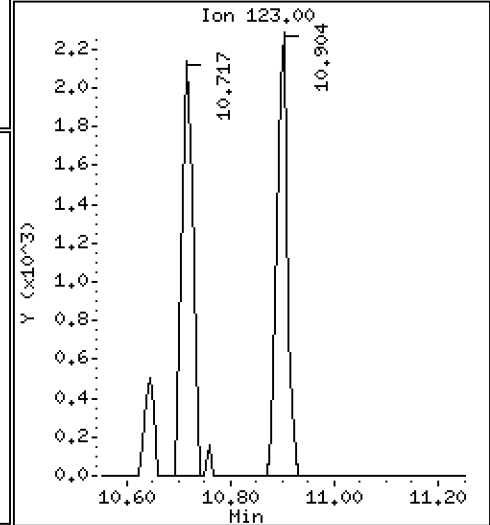
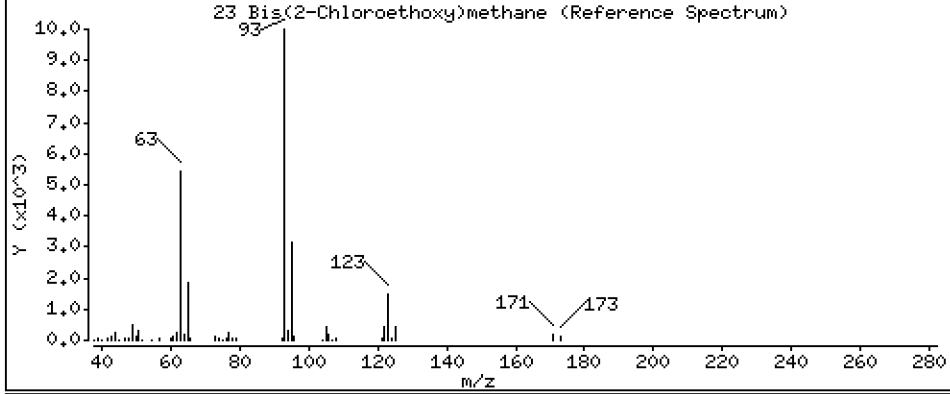
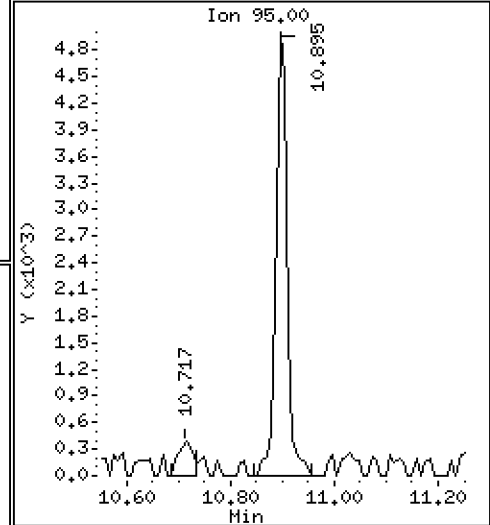
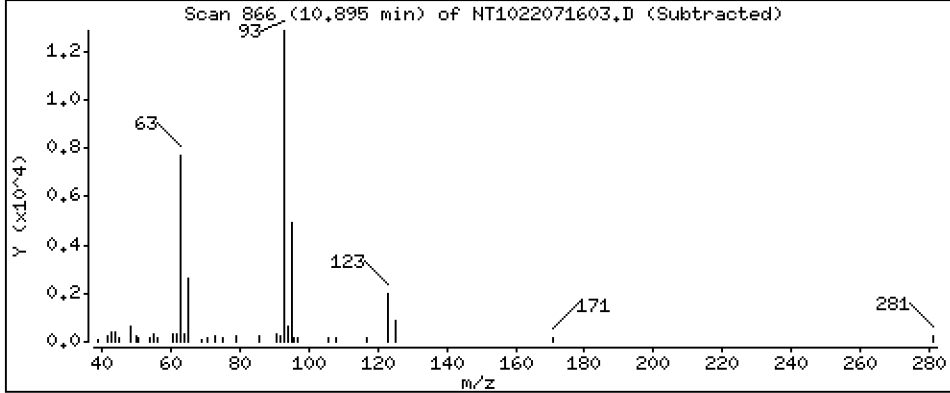
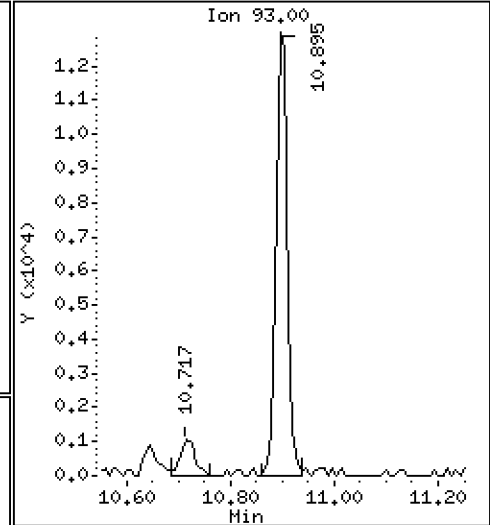
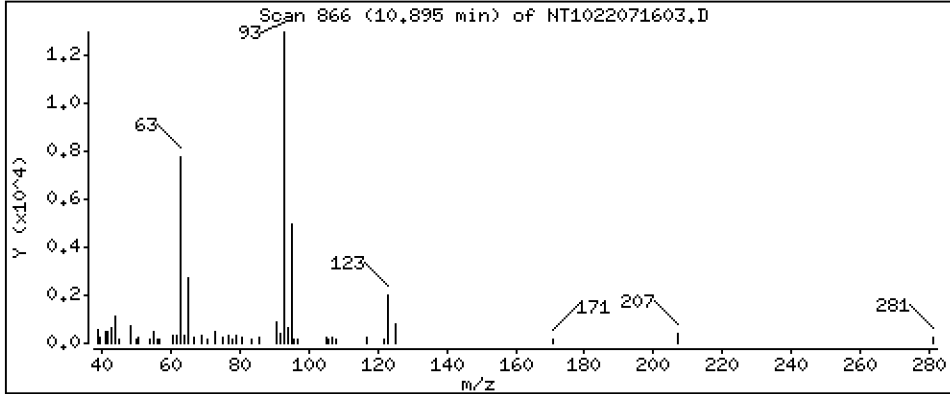
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,2151 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

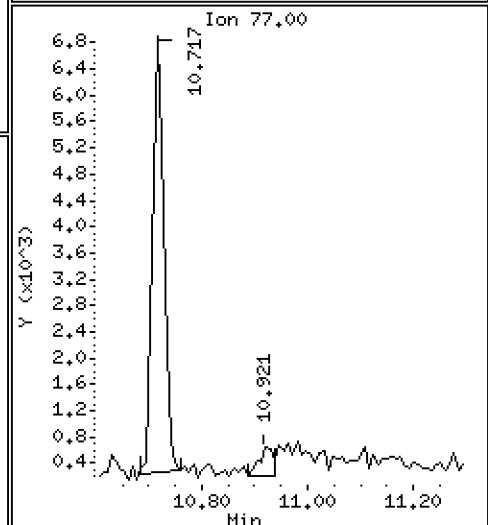
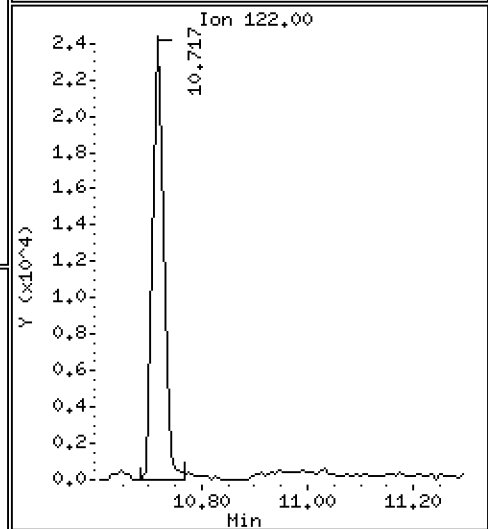
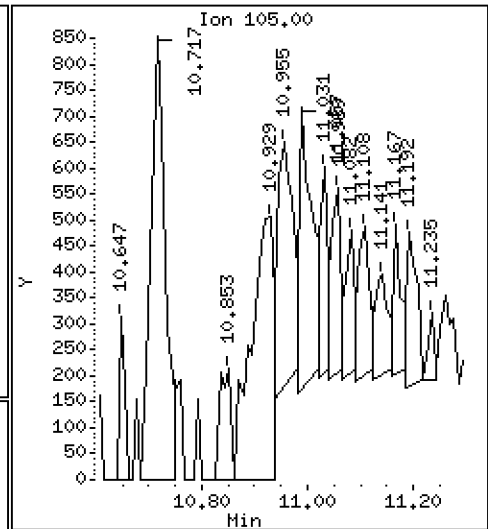
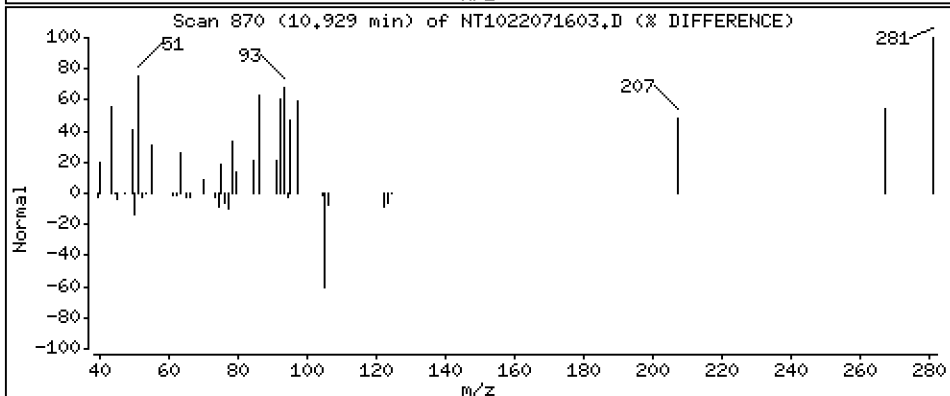
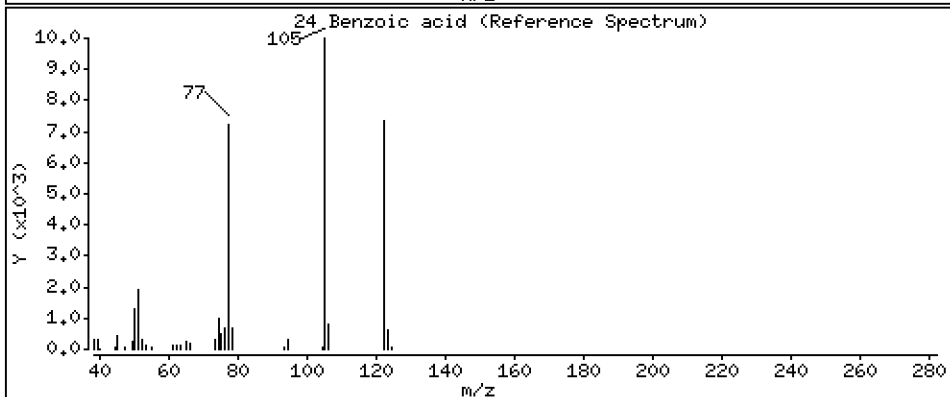
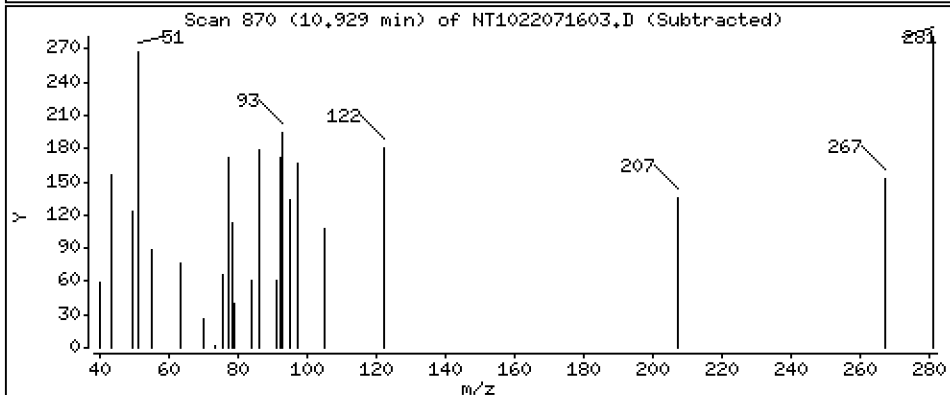
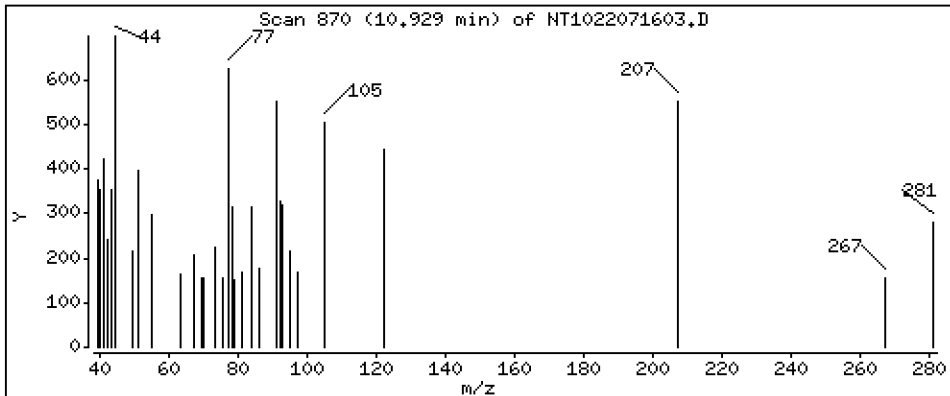
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.03670 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

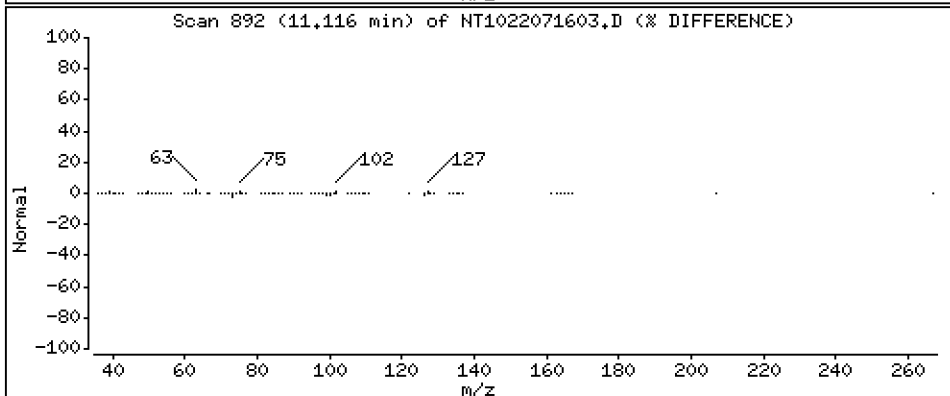
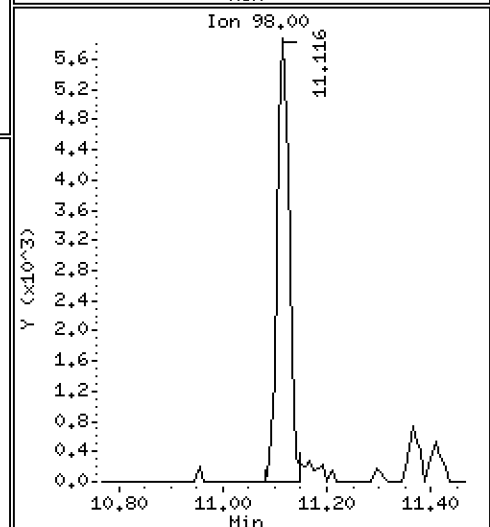
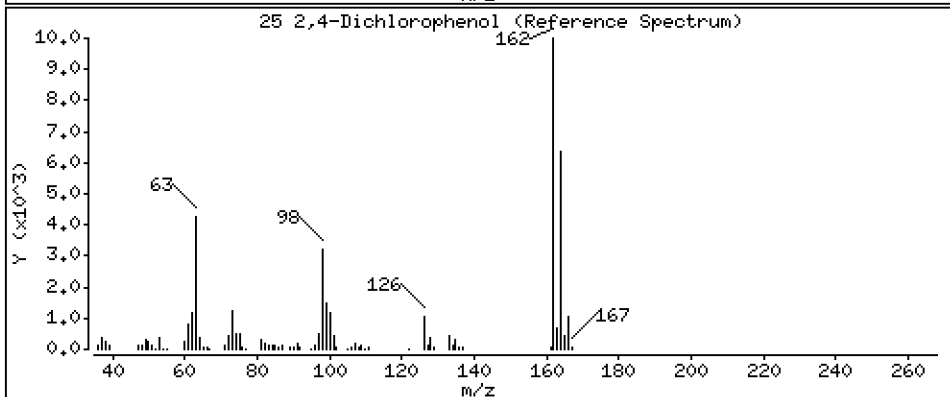
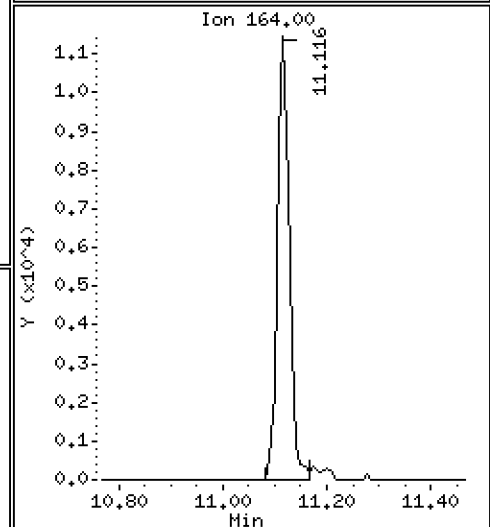
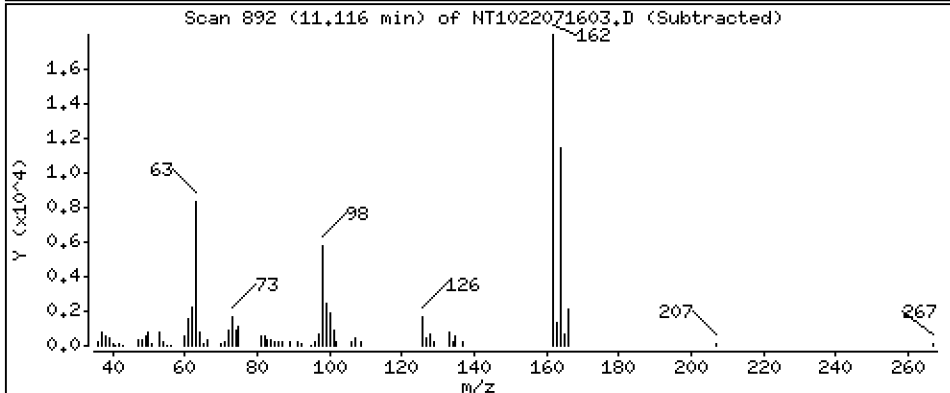
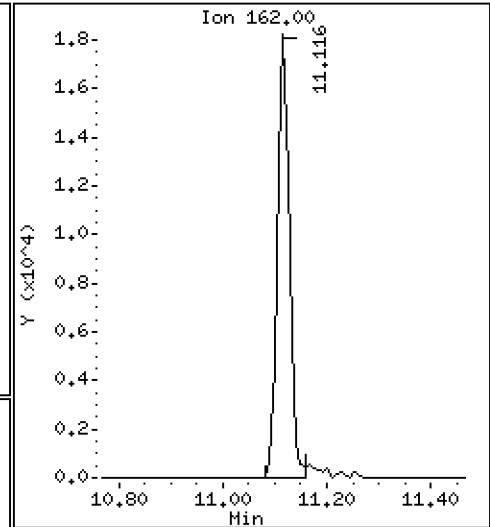
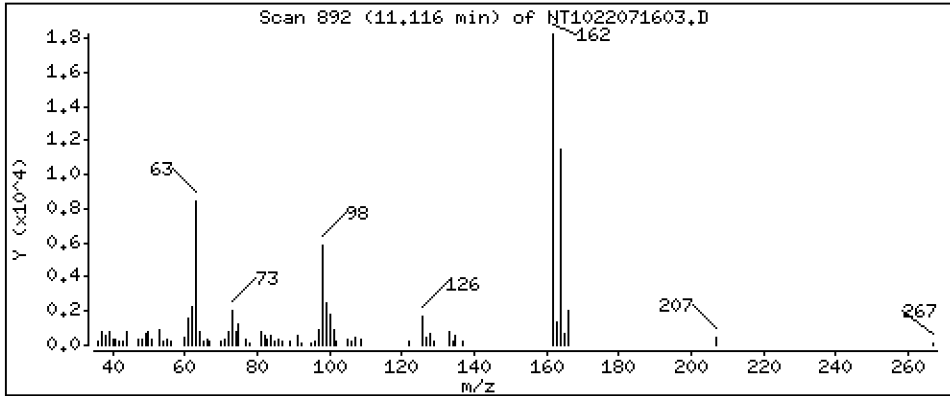
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3508 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

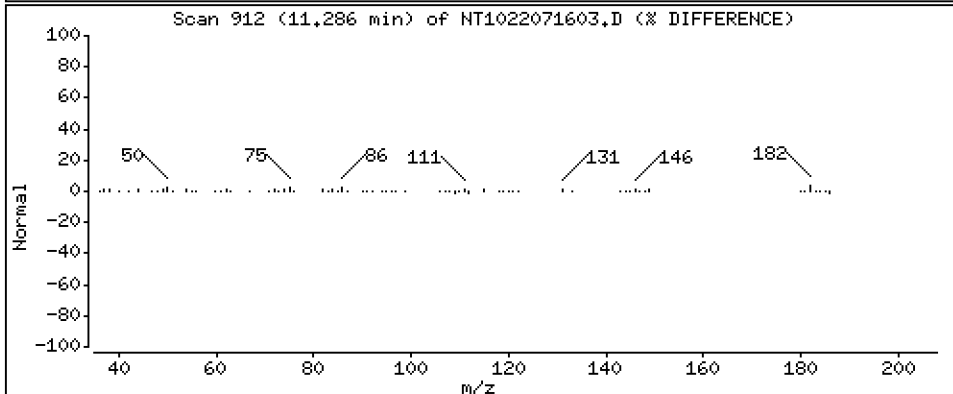
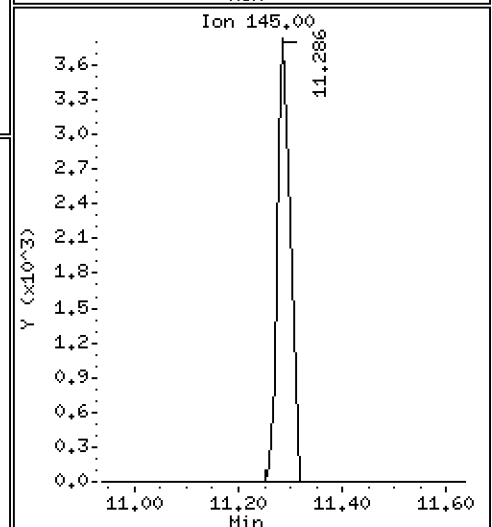
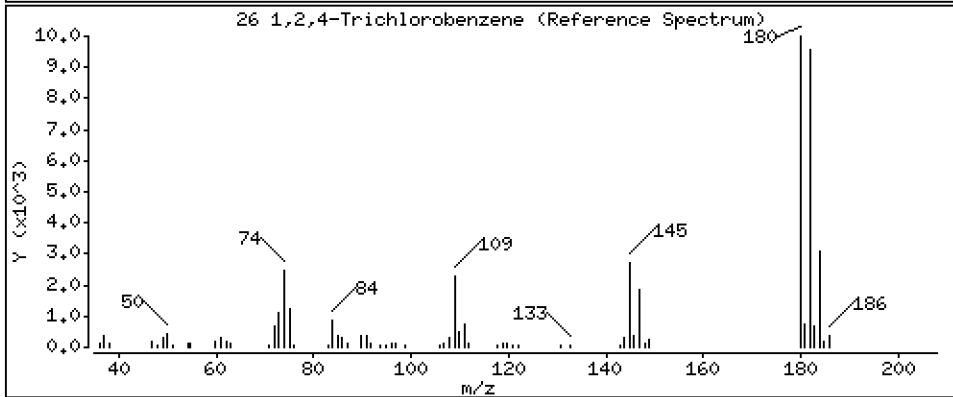
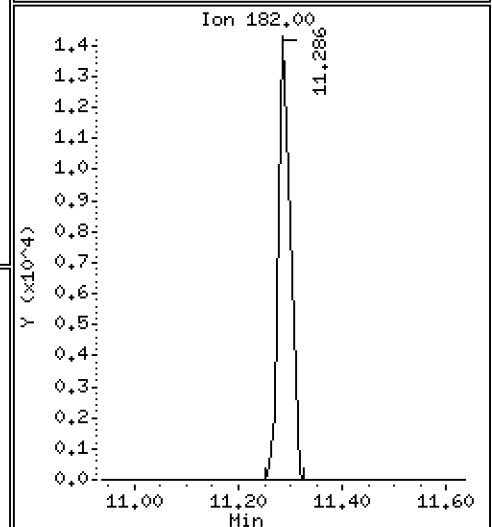
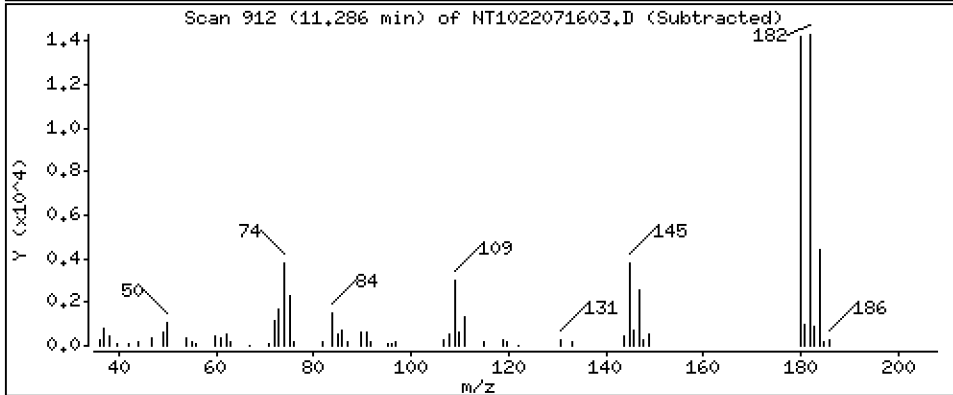
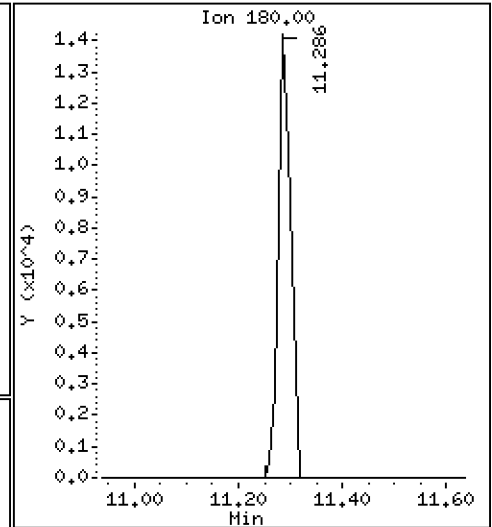
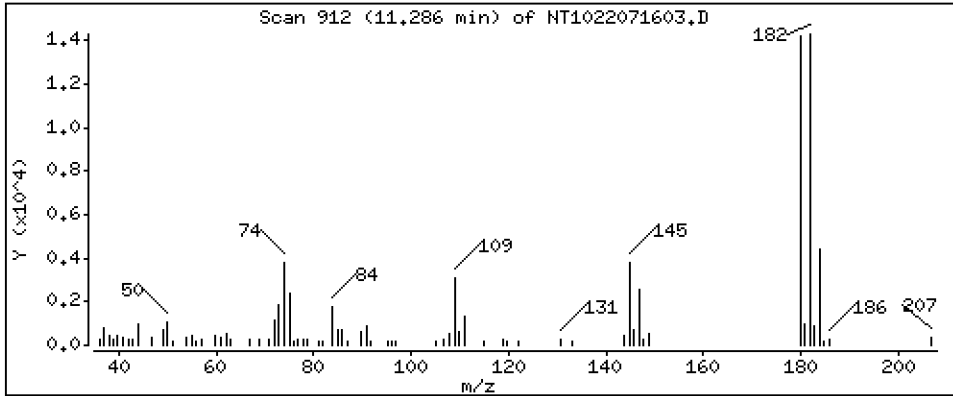
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2744 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

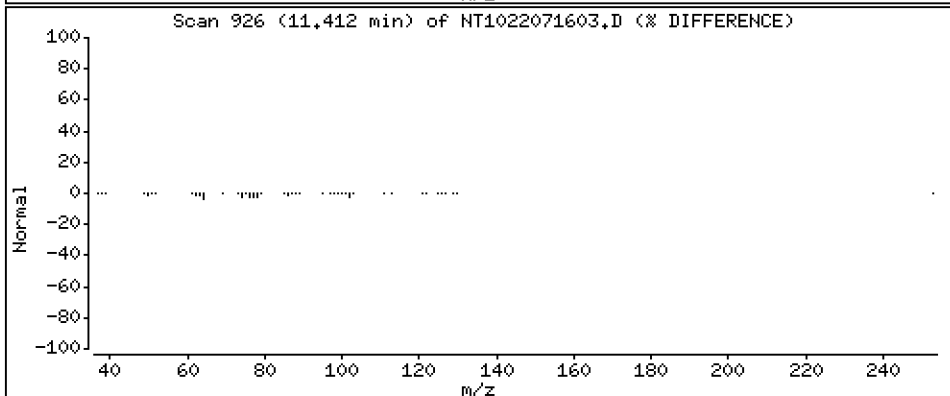
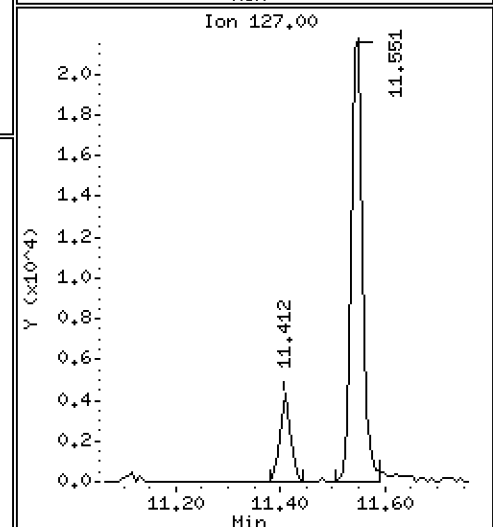
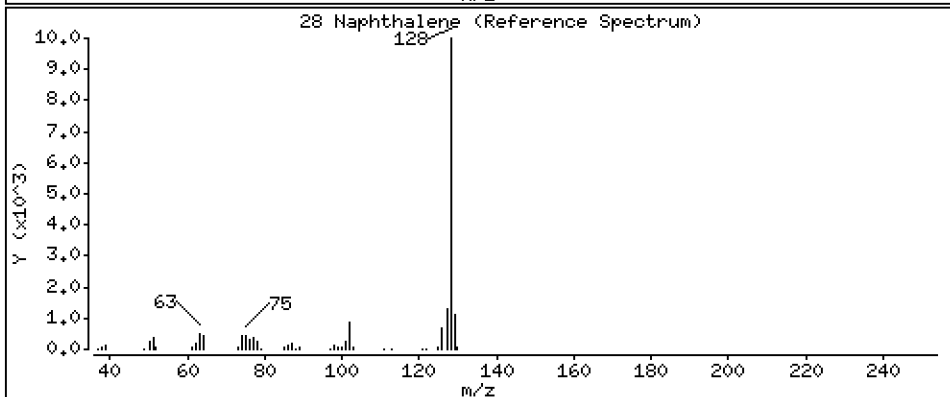
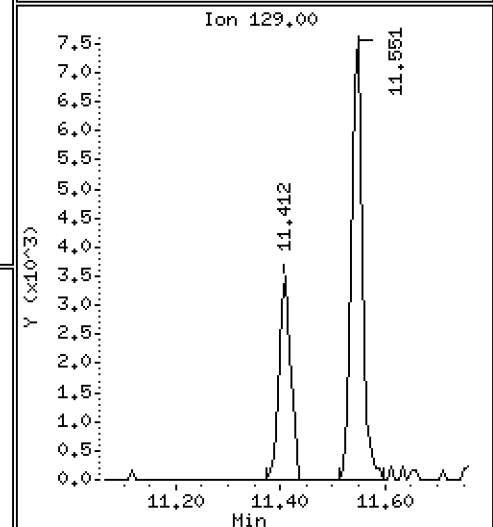
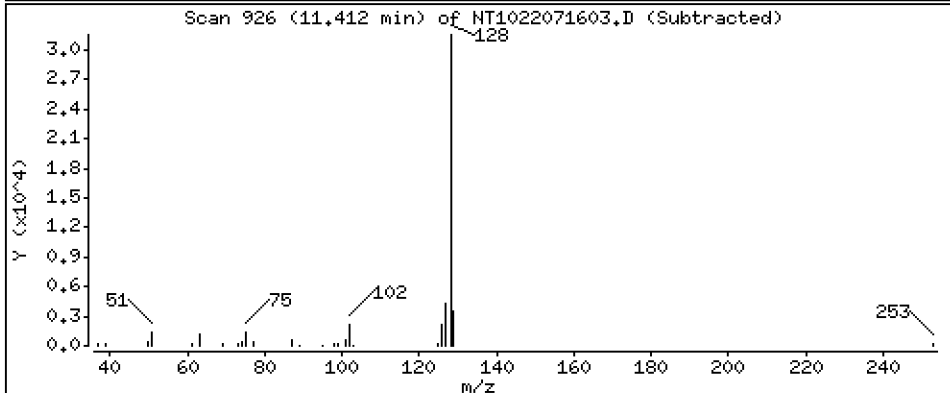
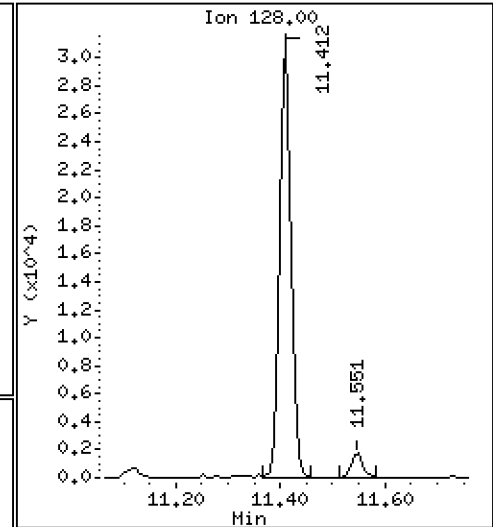
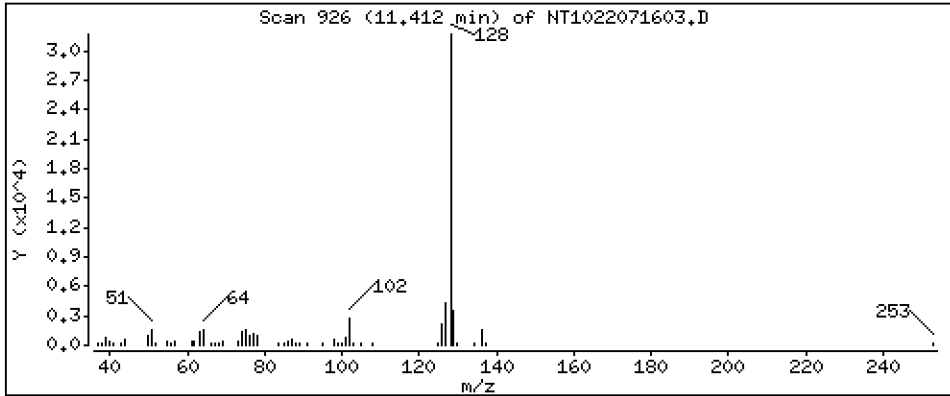
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,1828 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

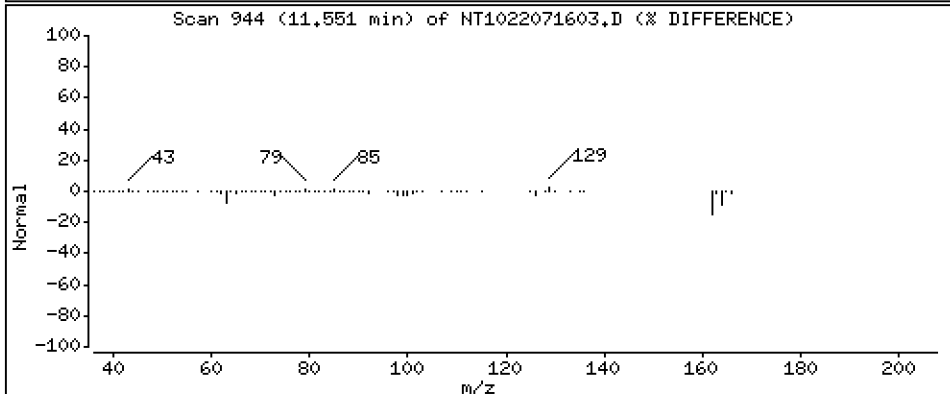
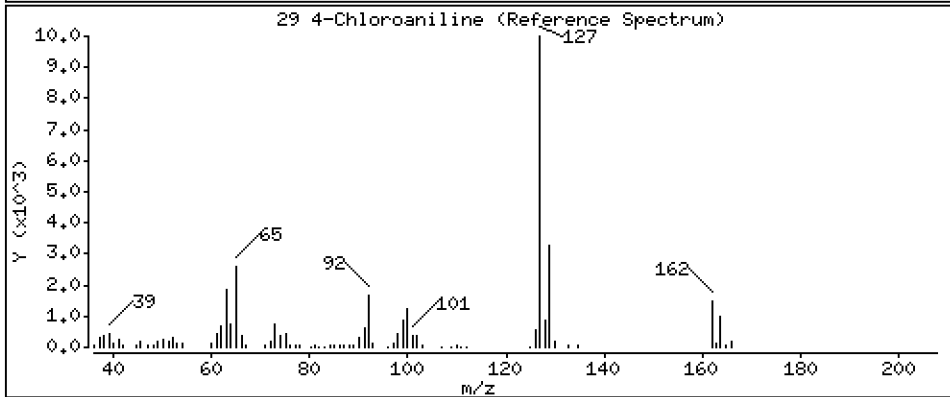
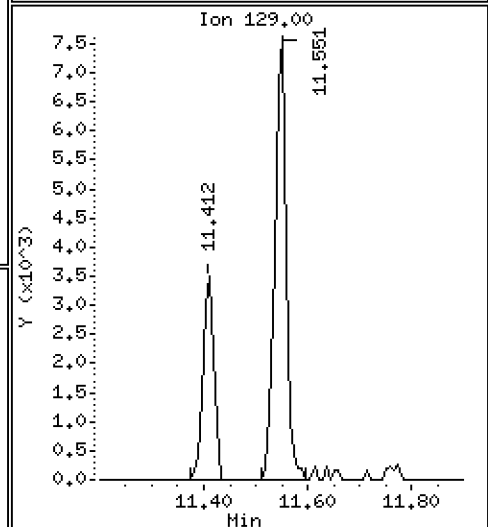
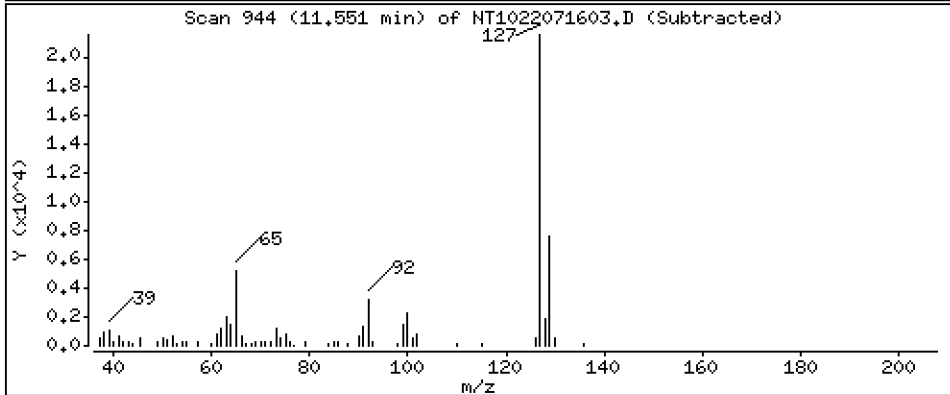
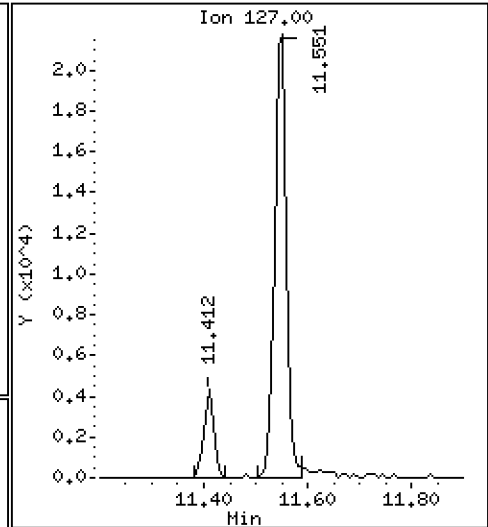
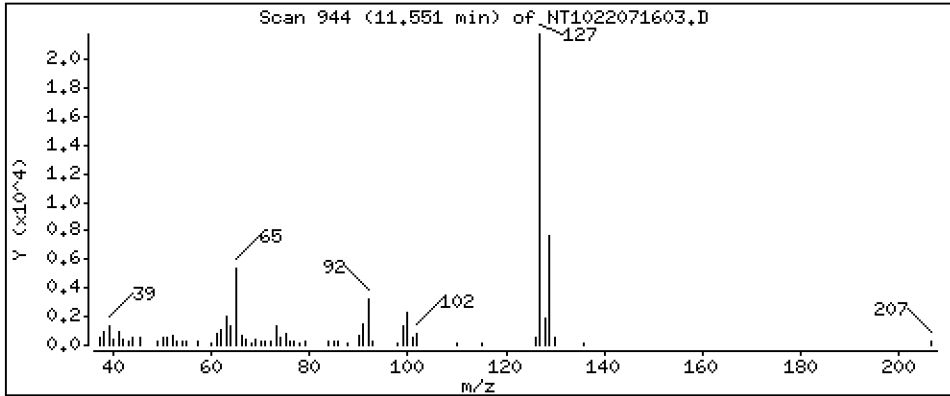
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3063 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

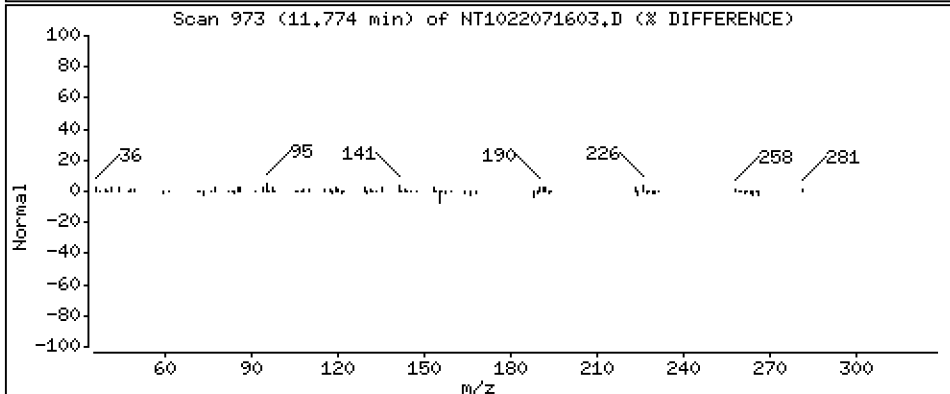
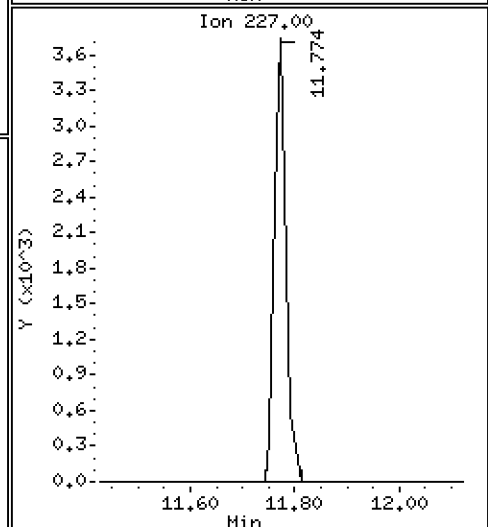
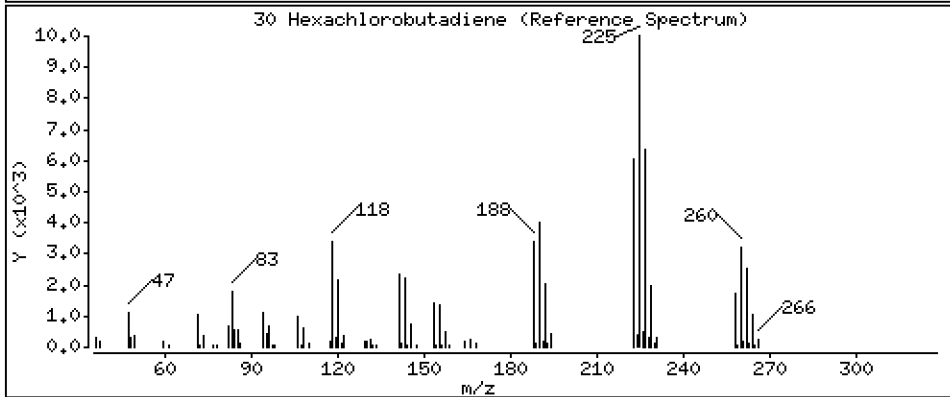
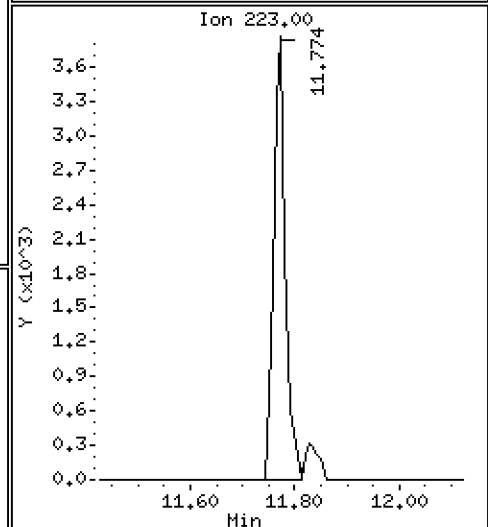
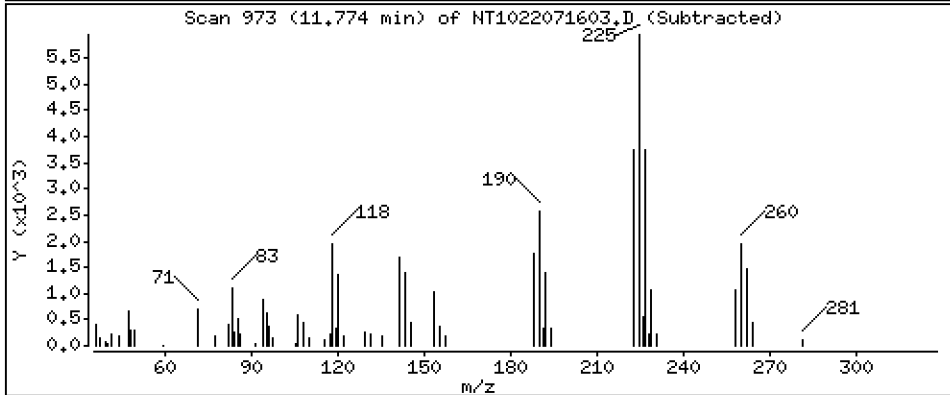
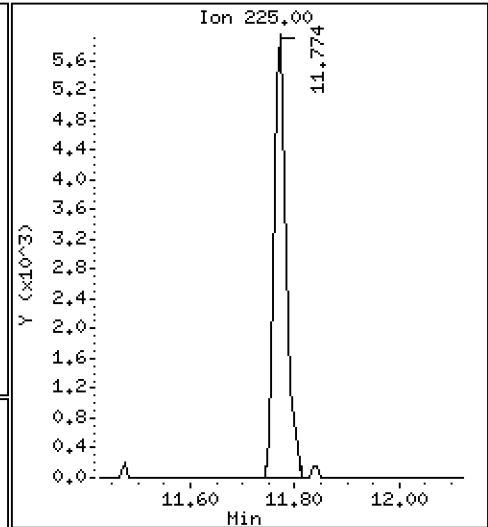
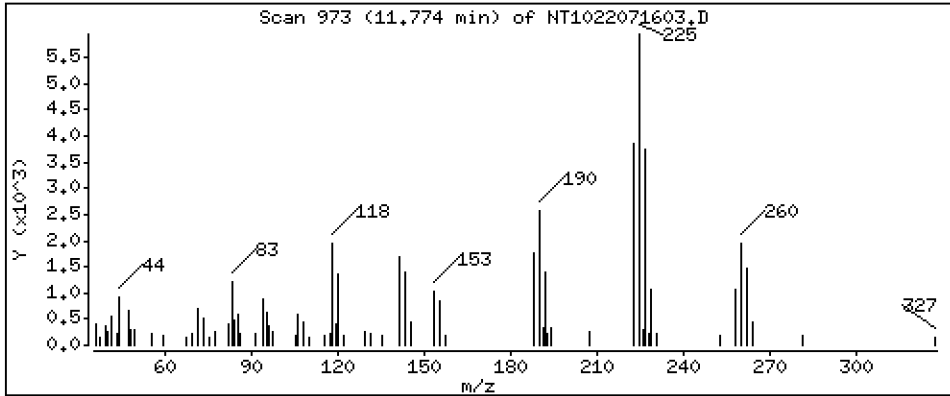
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2727 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

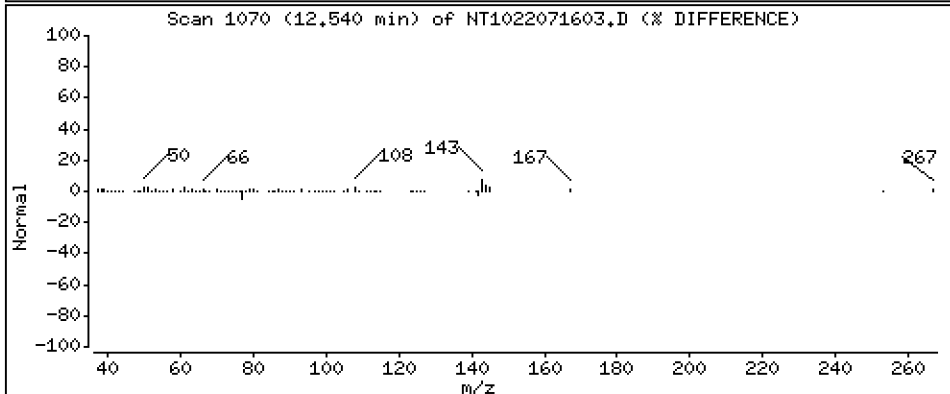
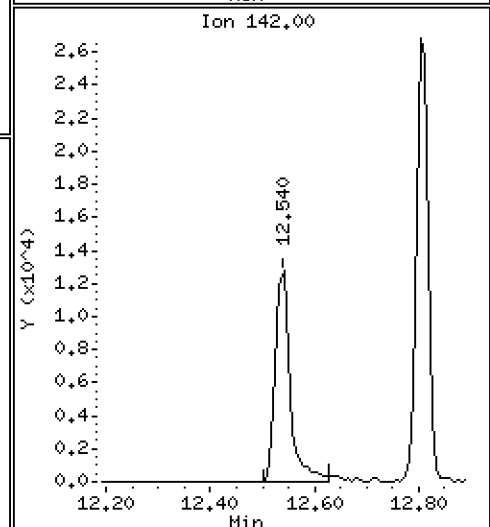
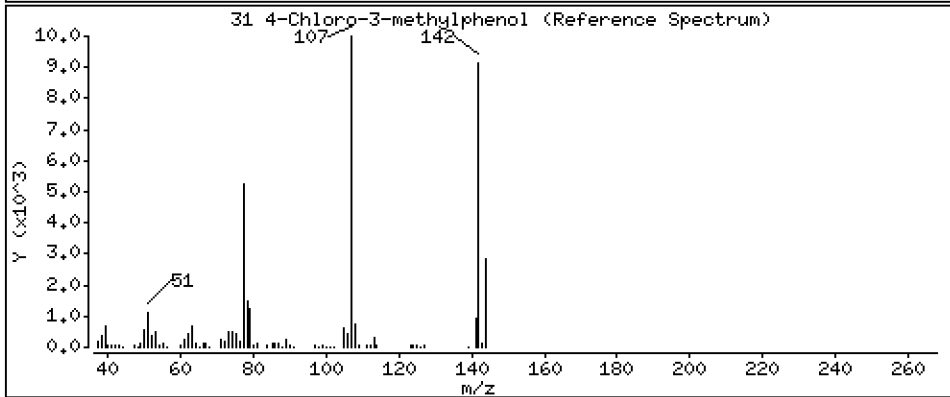
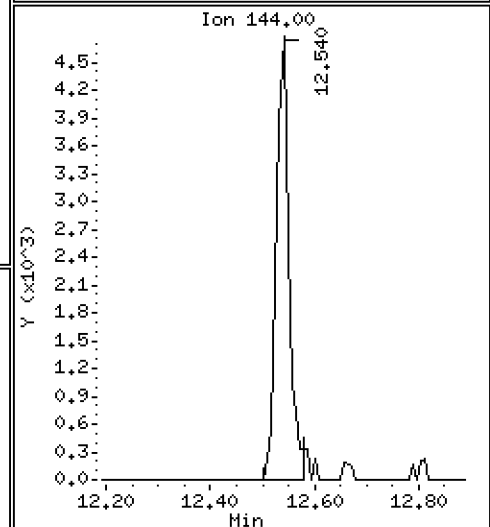
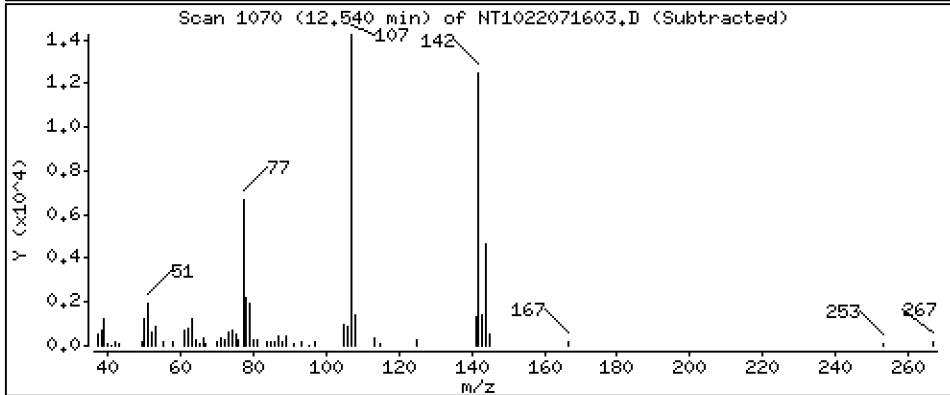
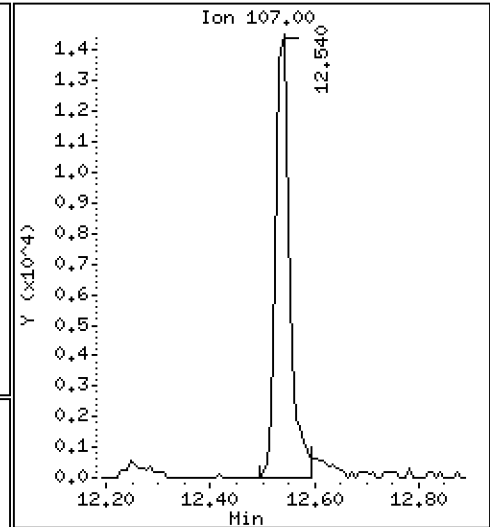
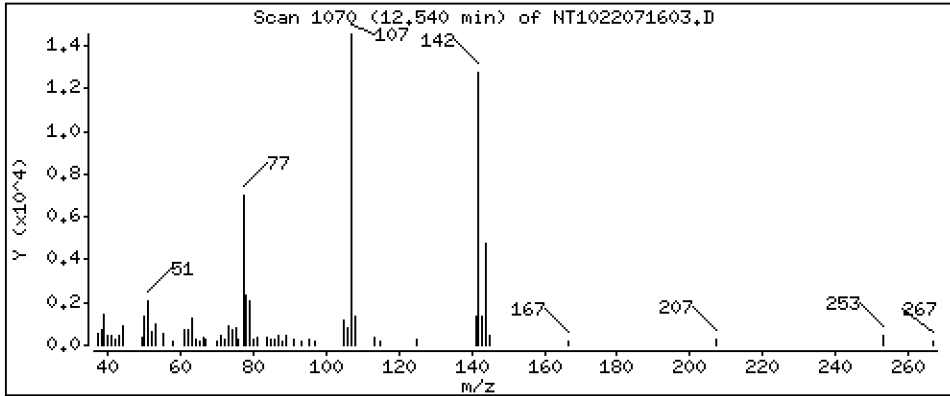
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,2676 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

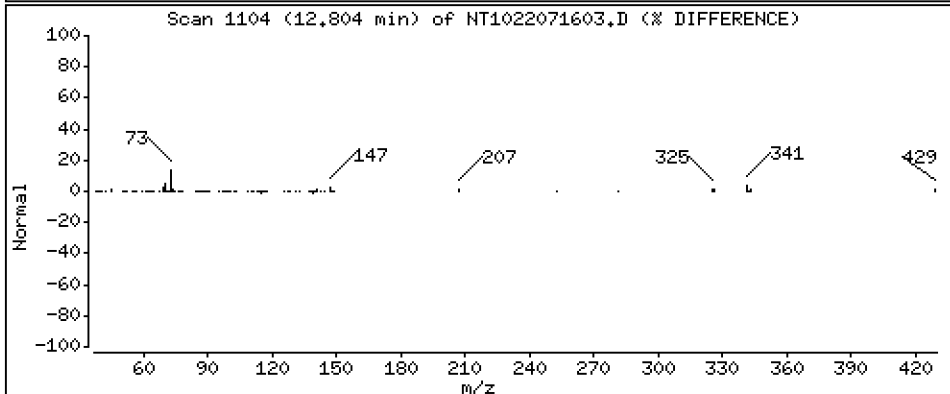
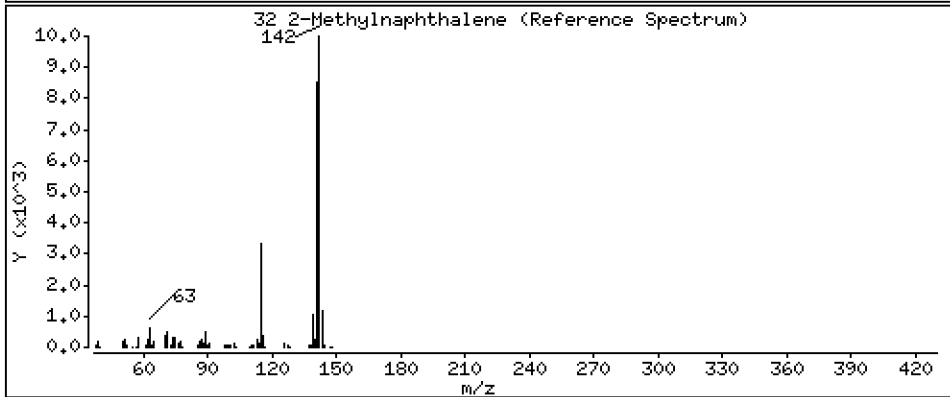
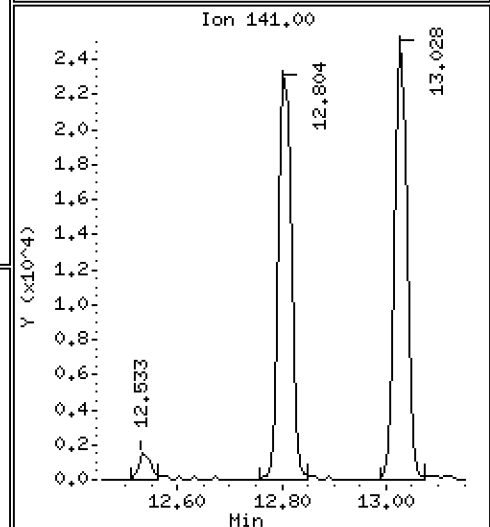
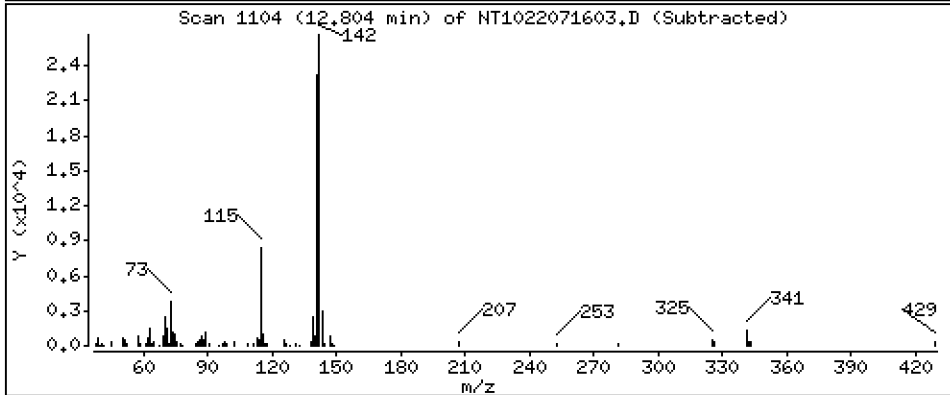
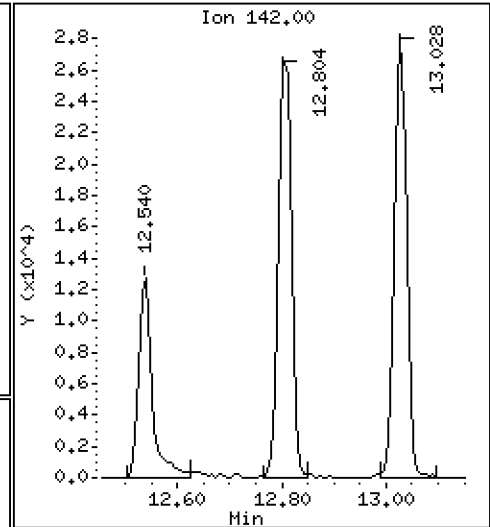
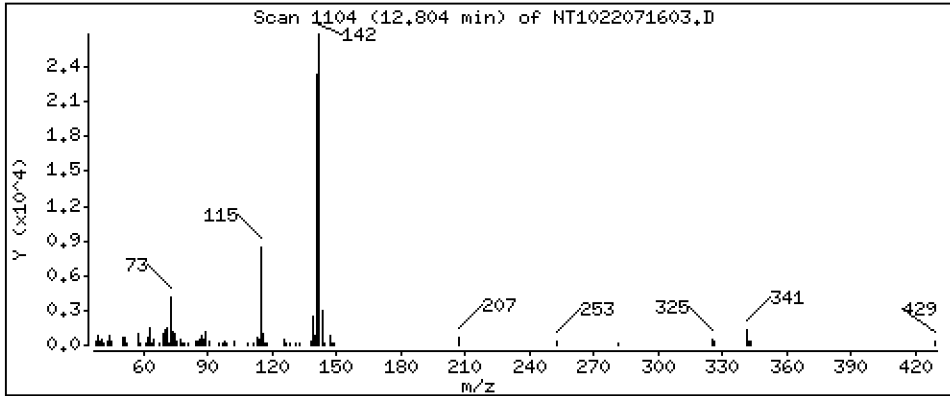
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1753 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

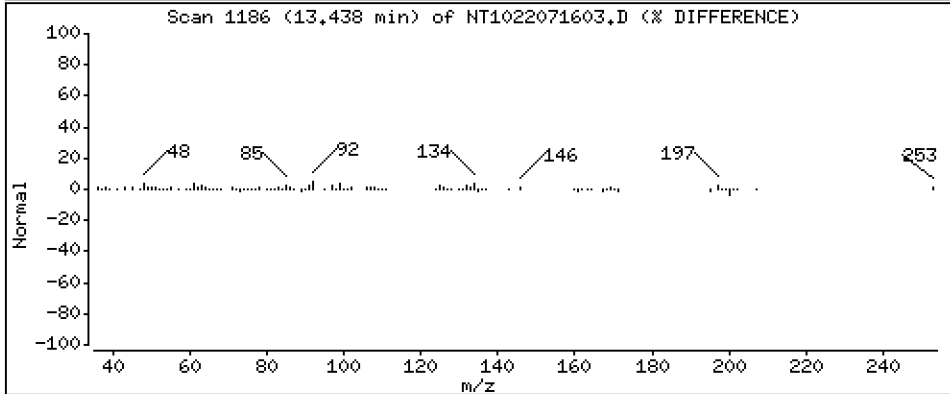
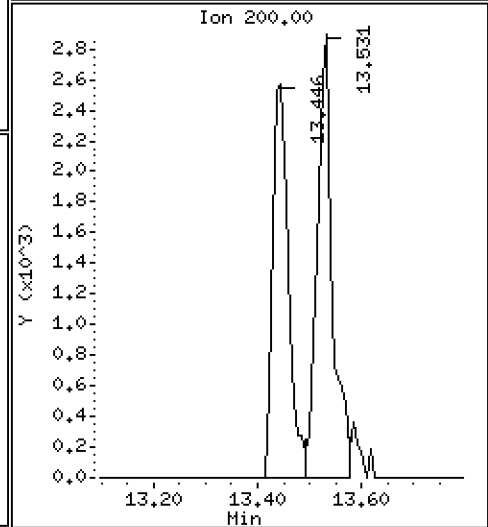
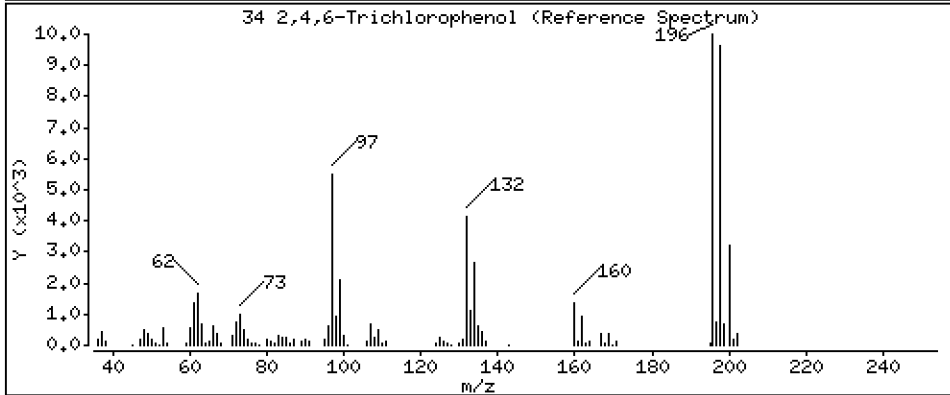
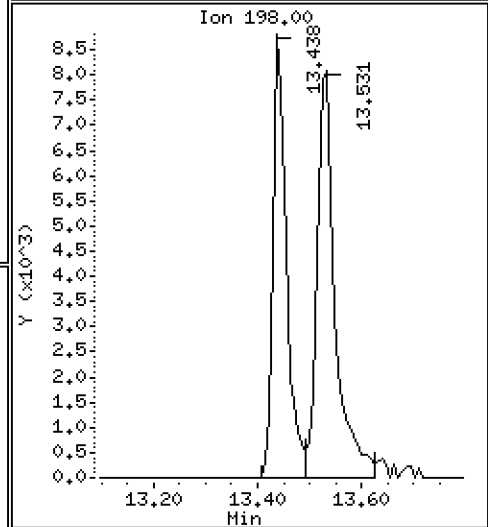
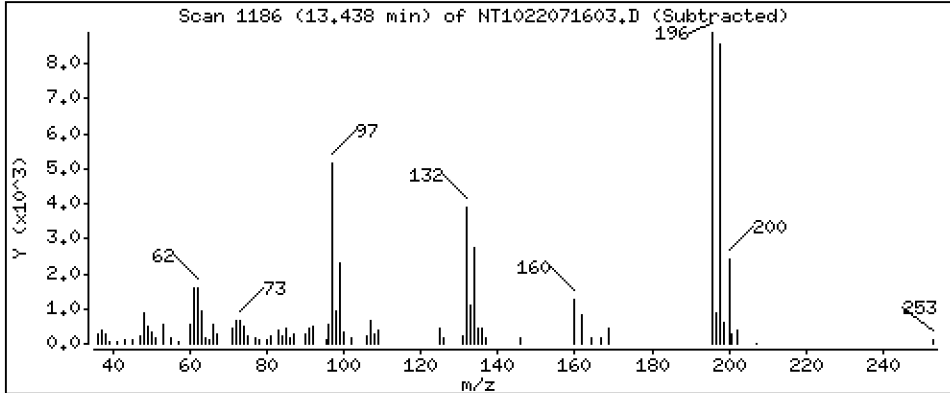
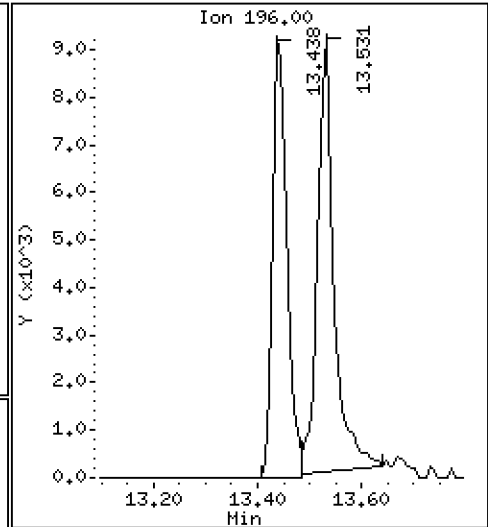
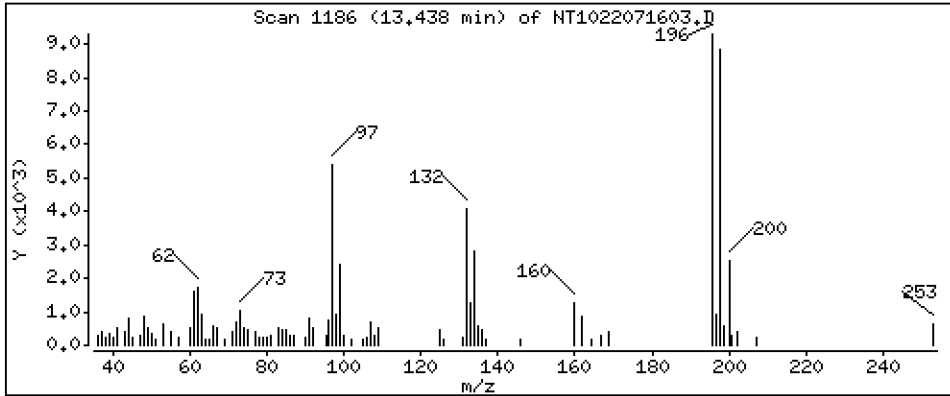
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,1972 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

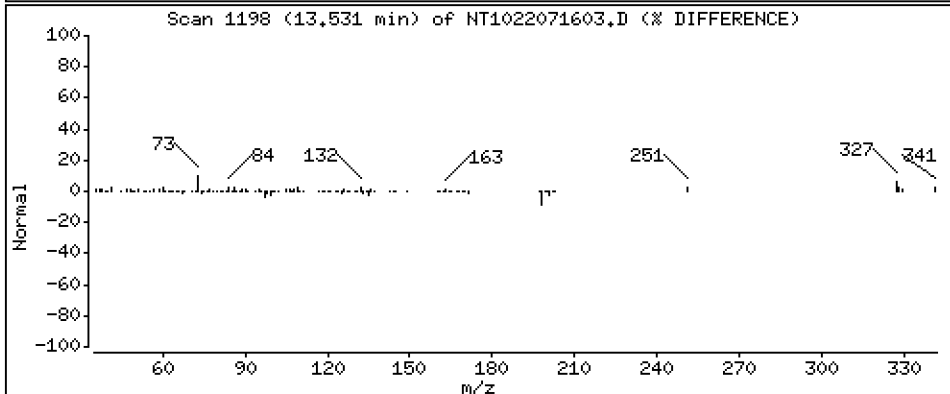
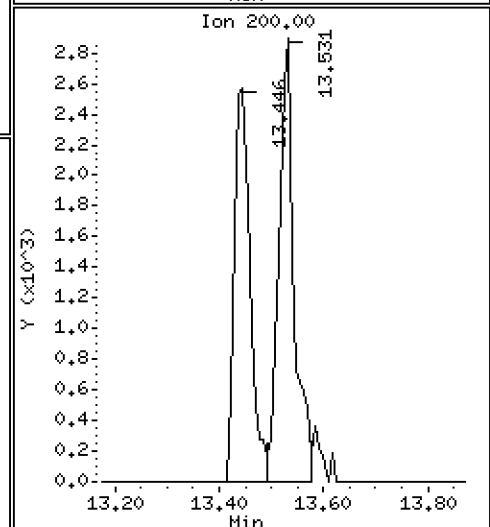
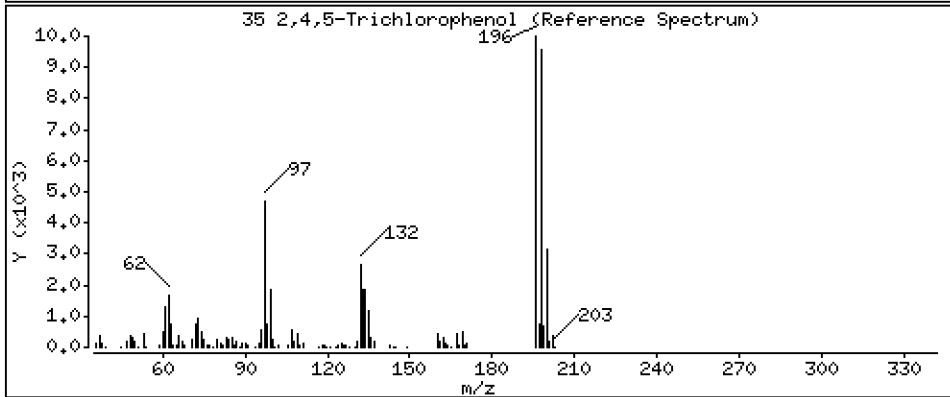
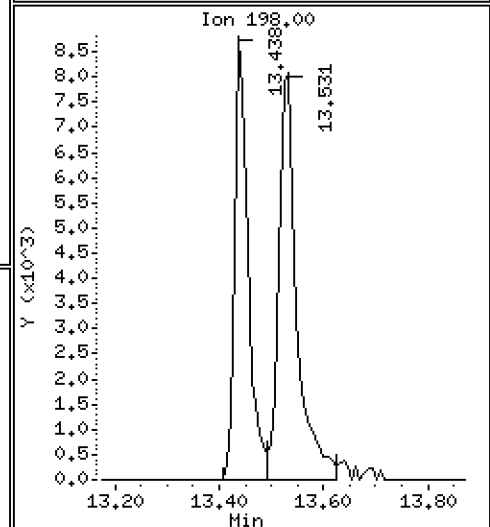
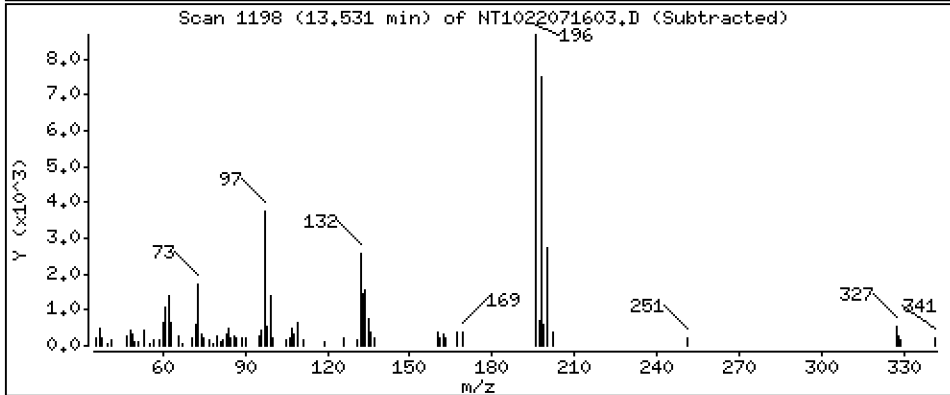
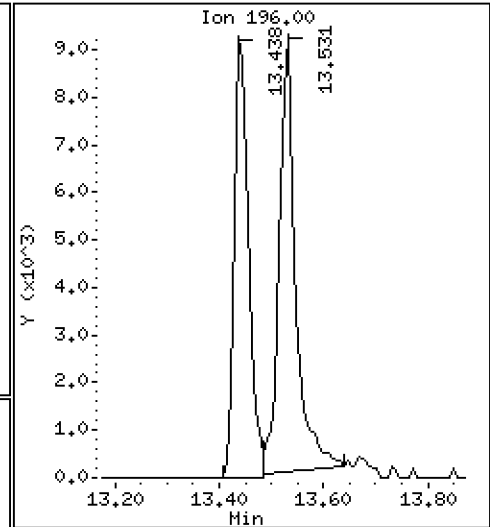
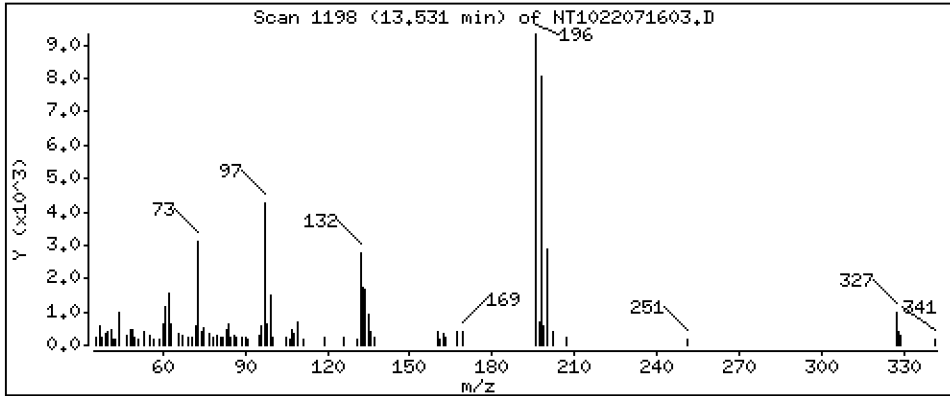
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,1874 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

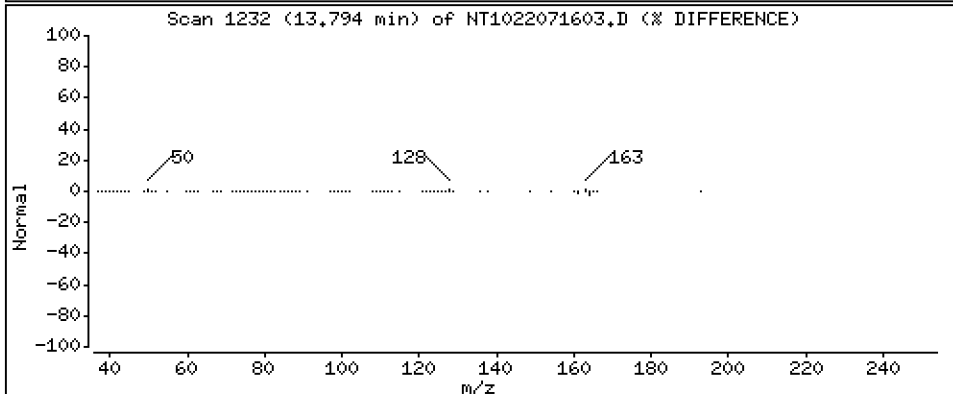
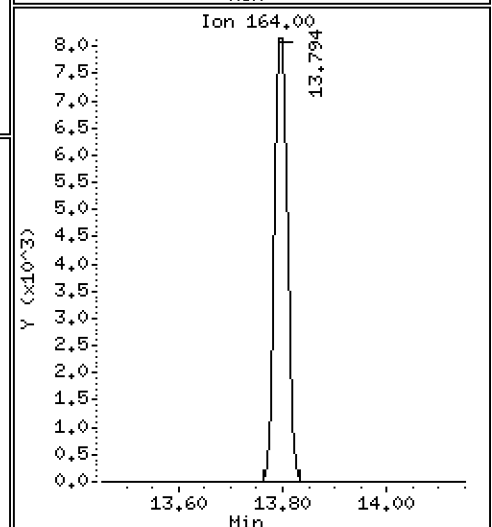
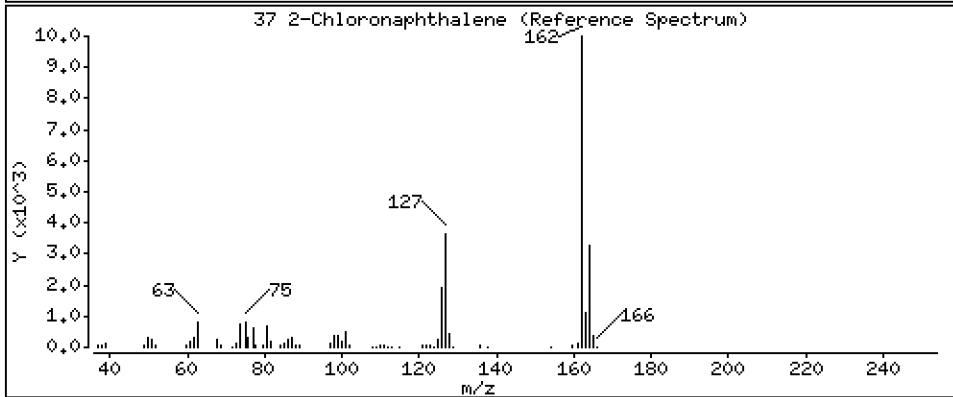
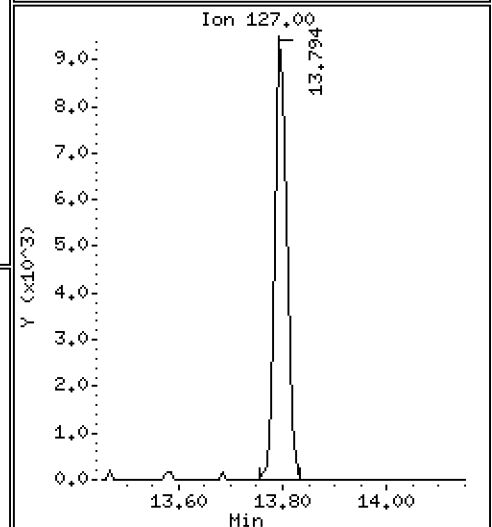
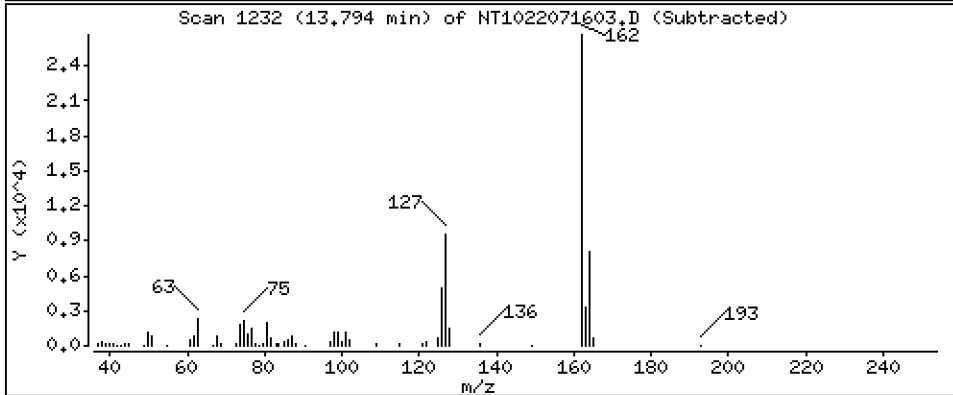
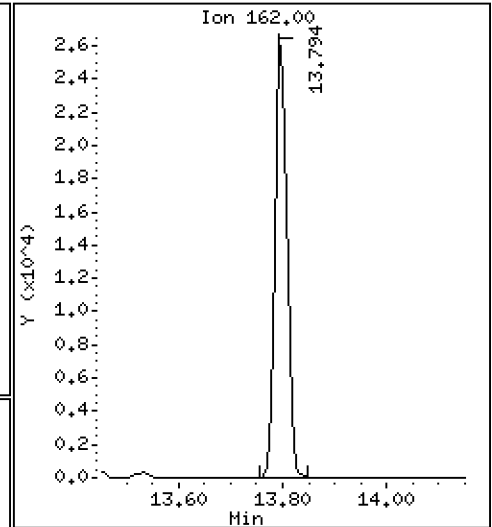
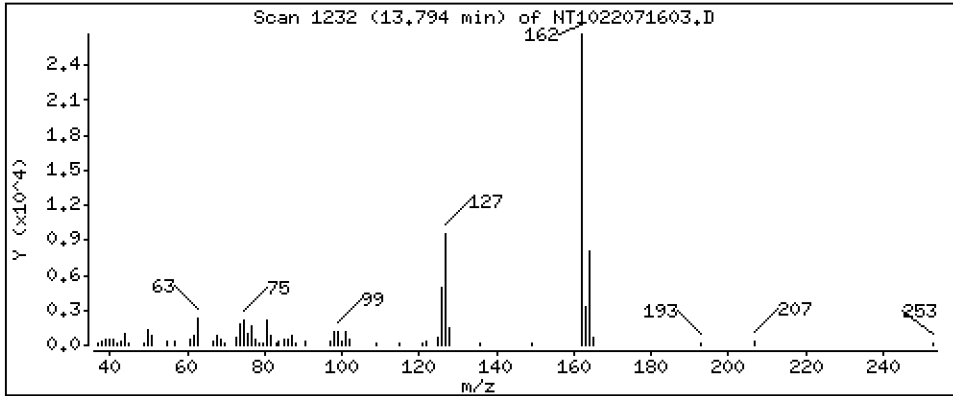
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,1325 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

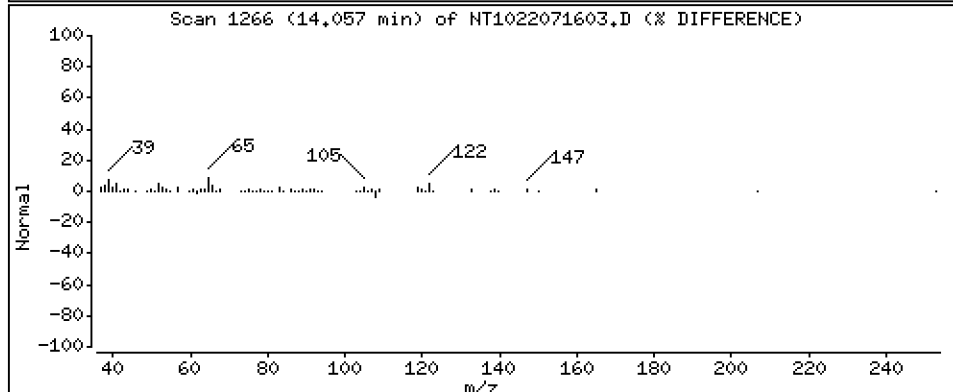
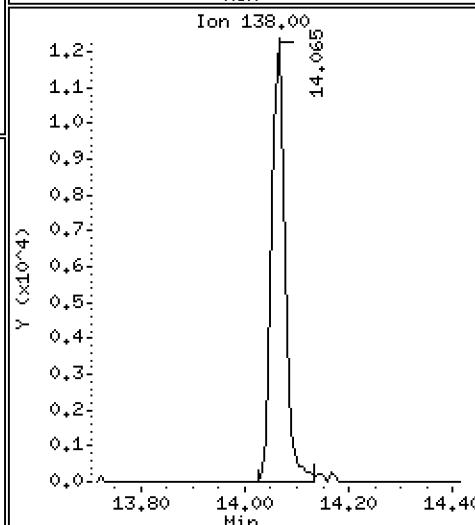
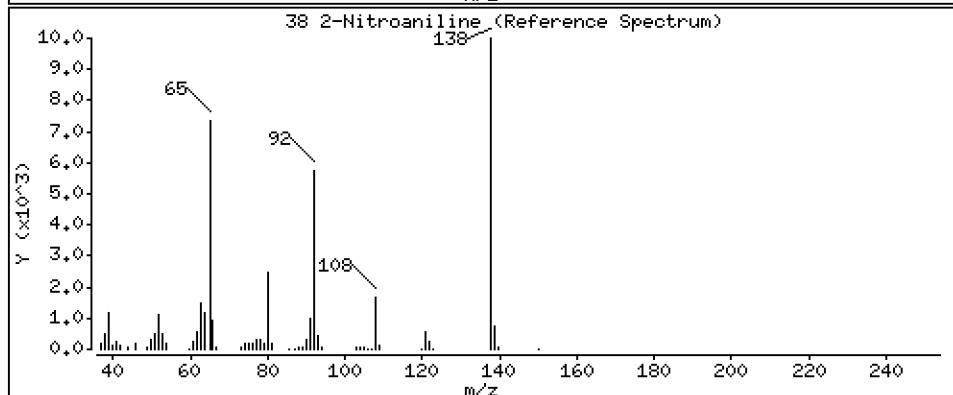
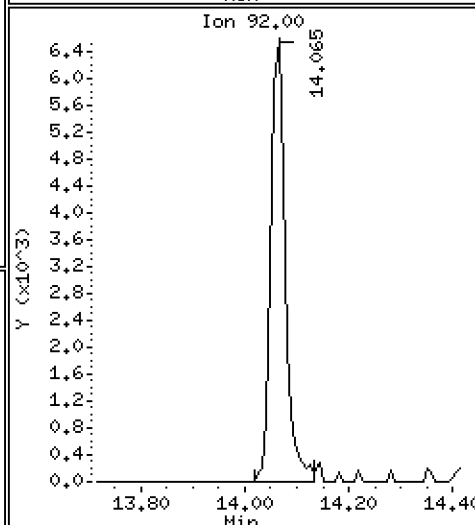
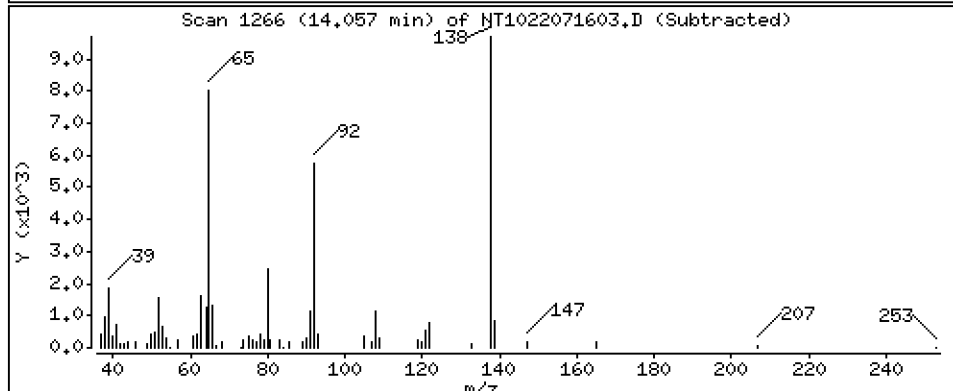
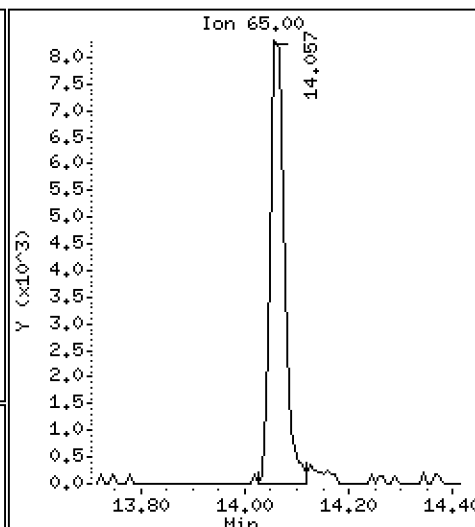
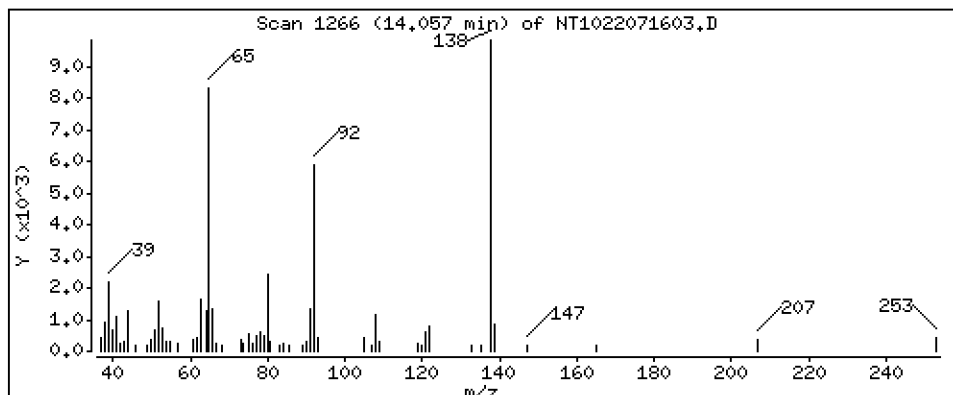
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,1858 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

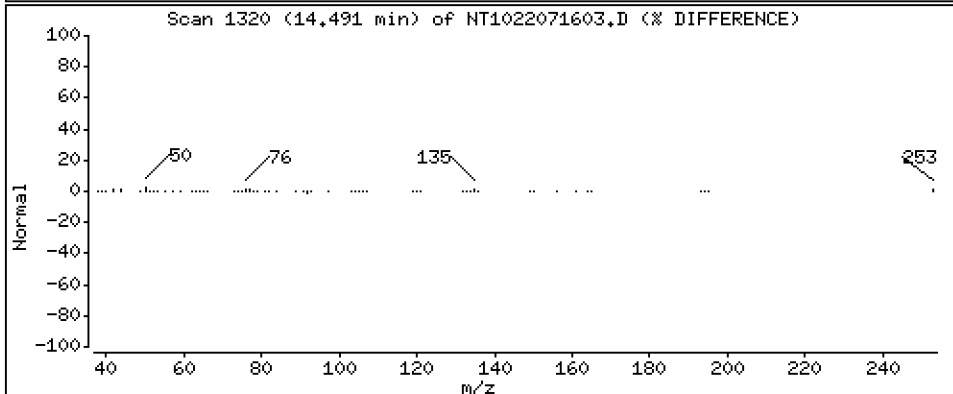
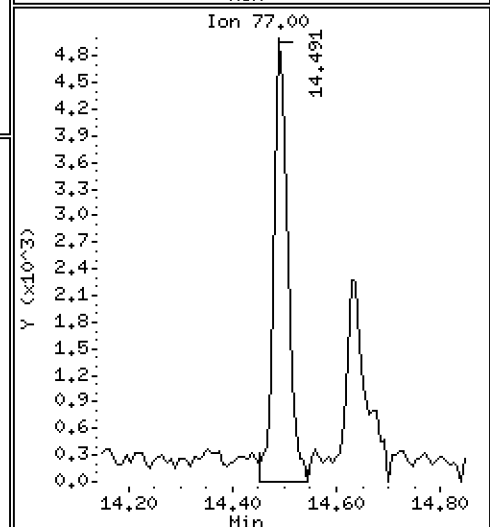
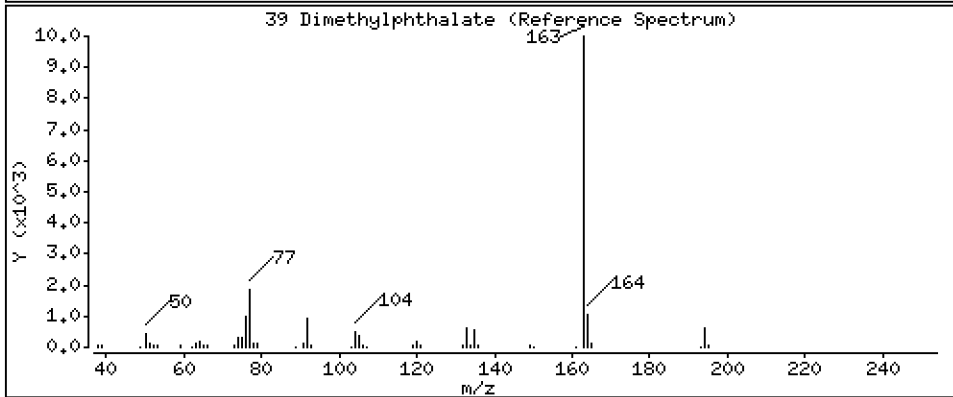
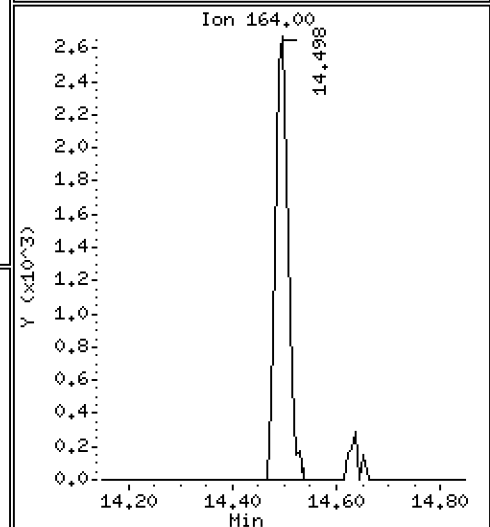
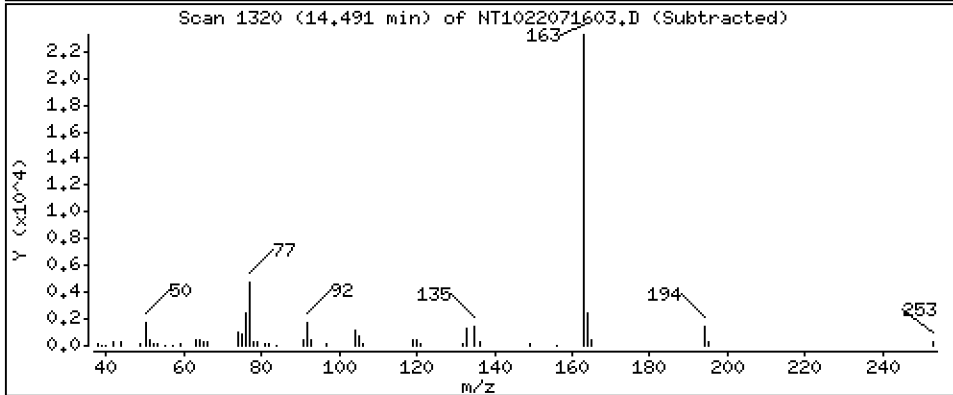
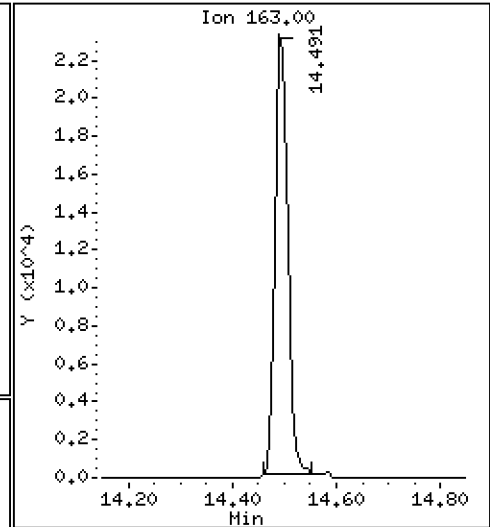
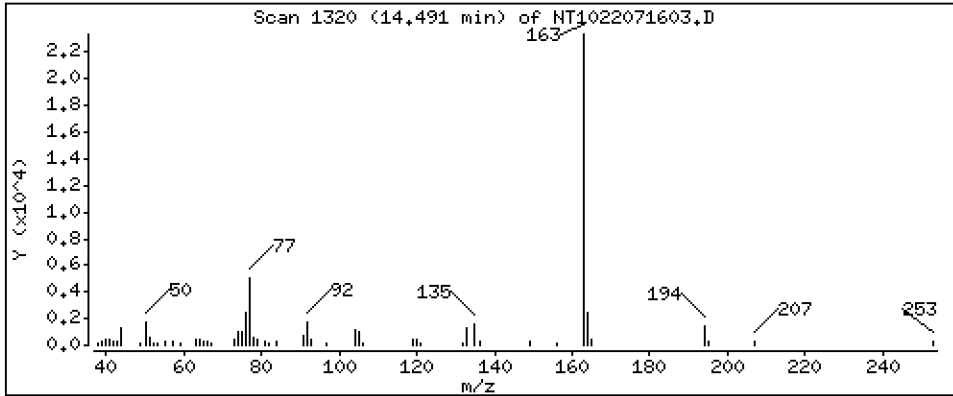
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,1407 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

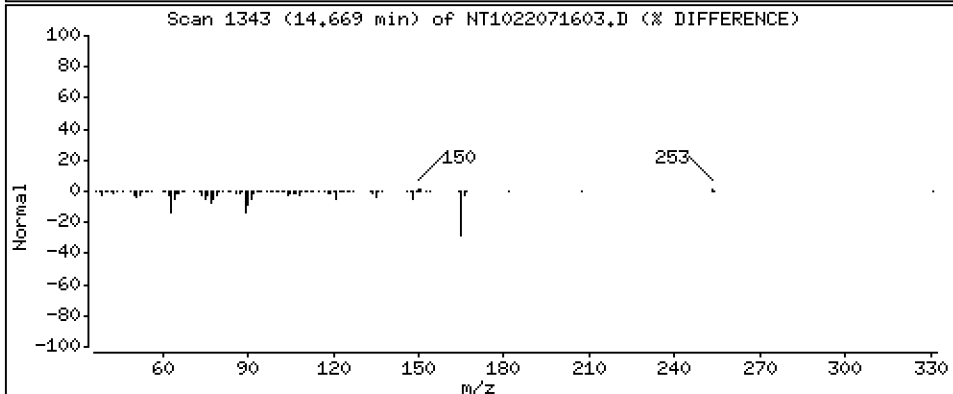
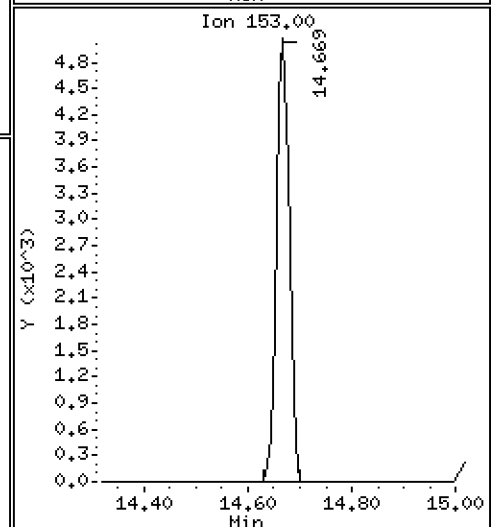
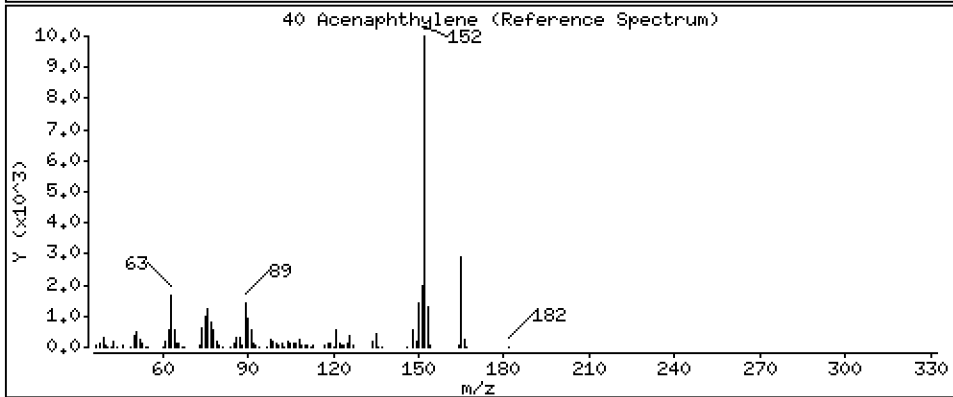
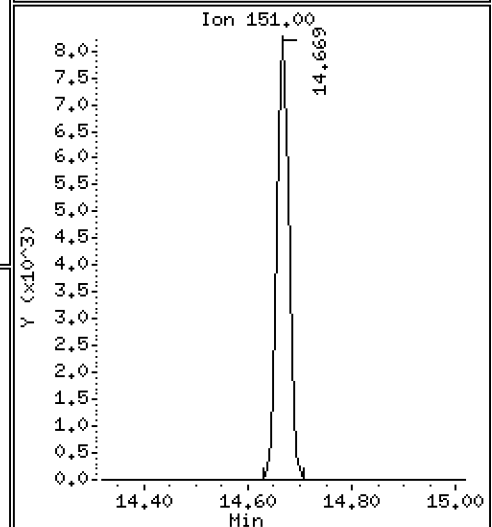
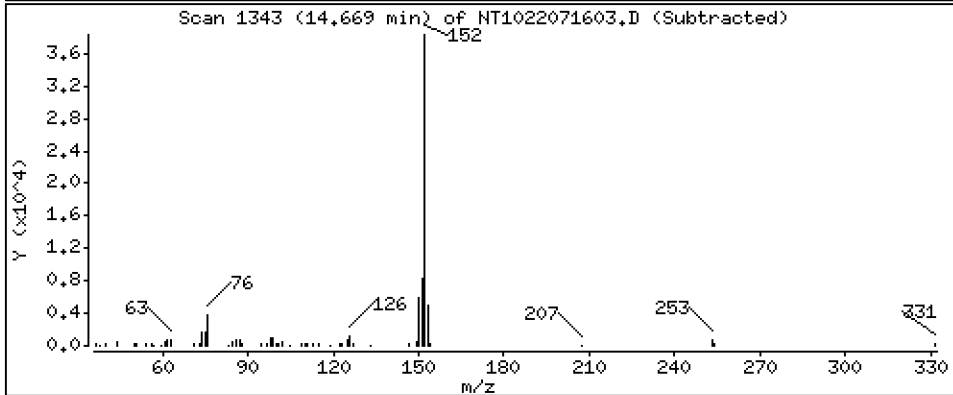
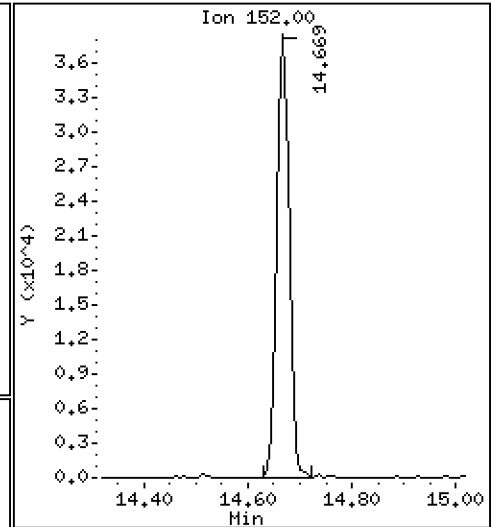
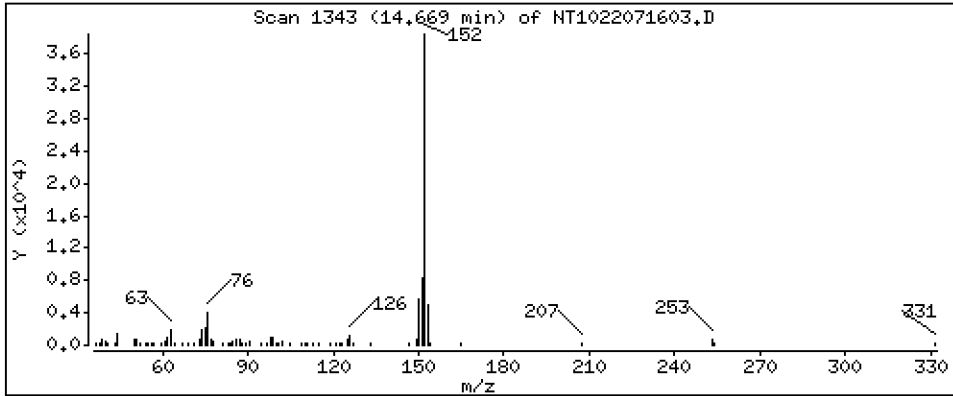
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,1356 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

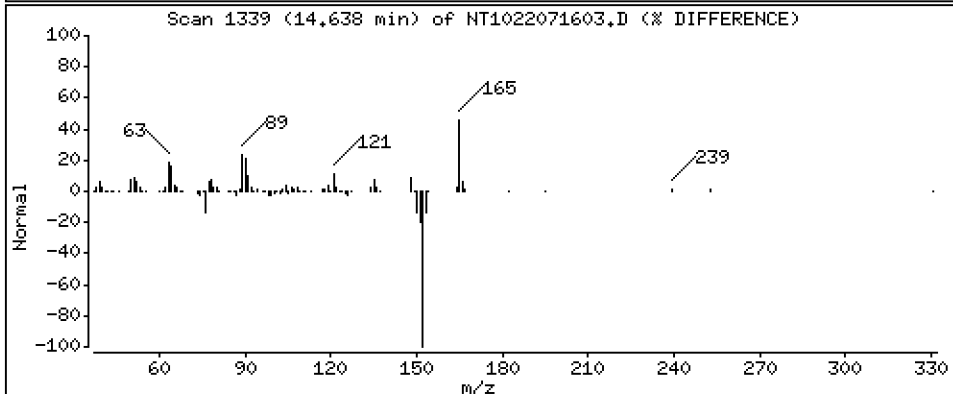
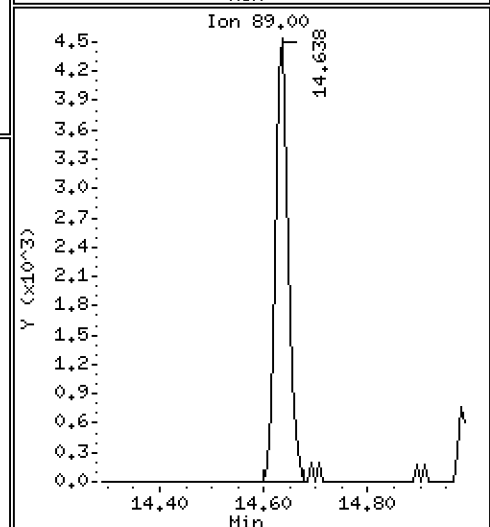
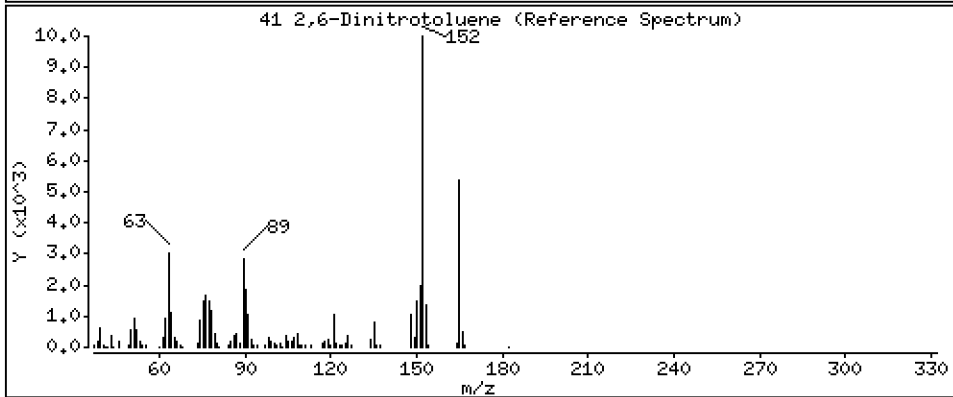
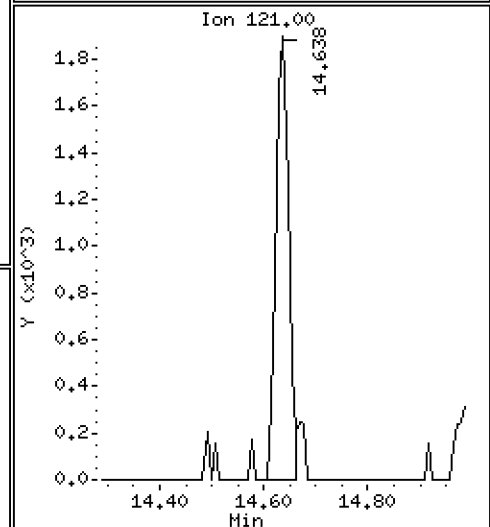
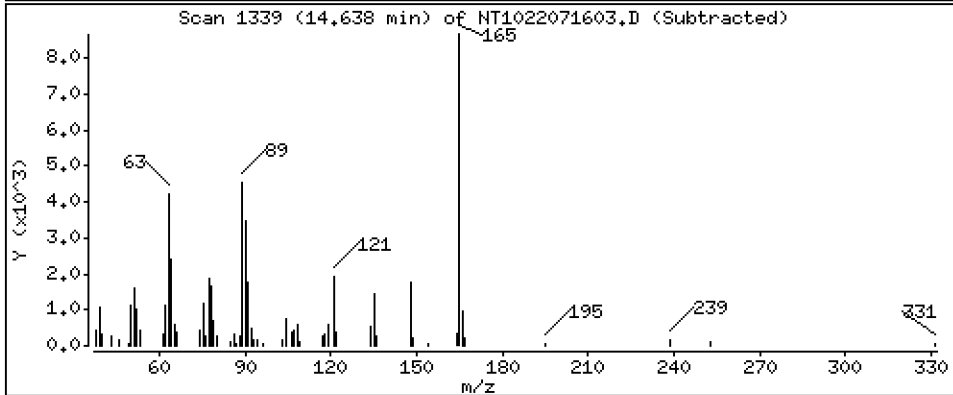
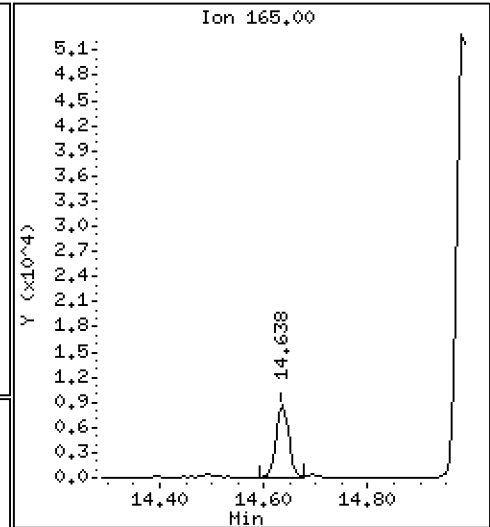
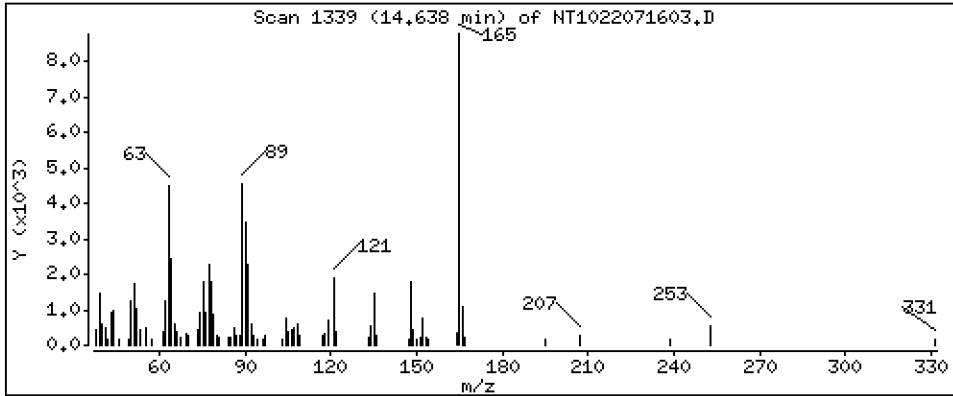
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.2278 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

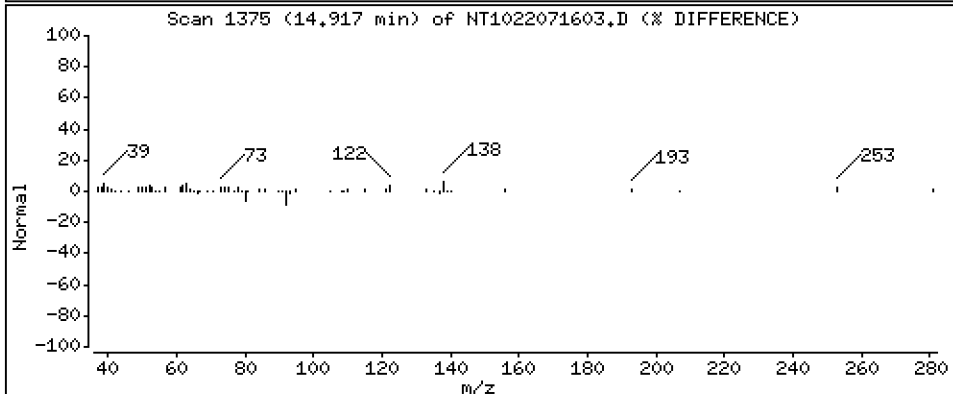
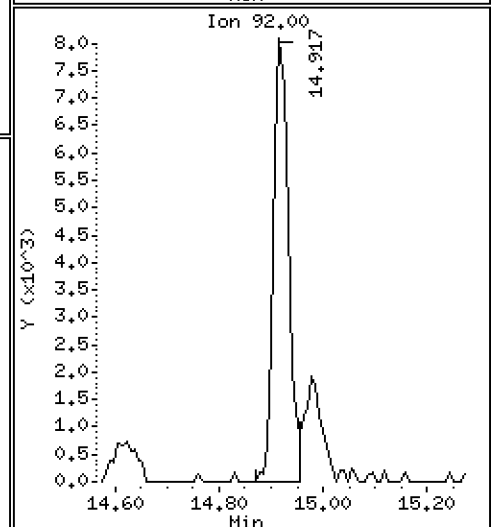
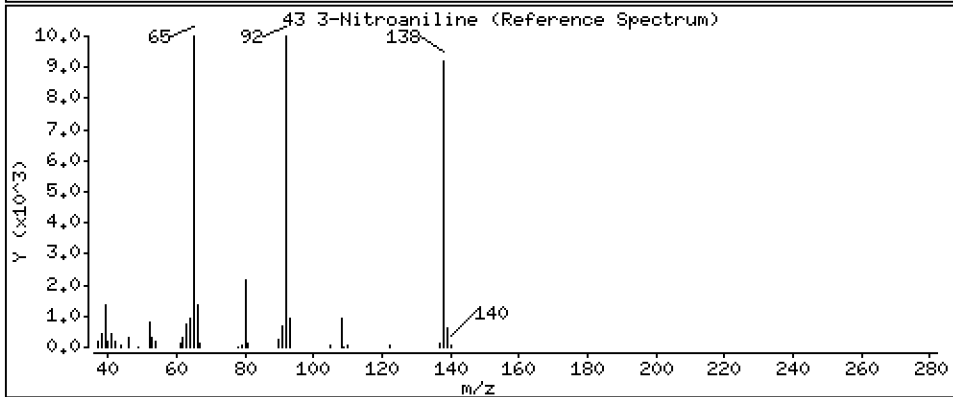
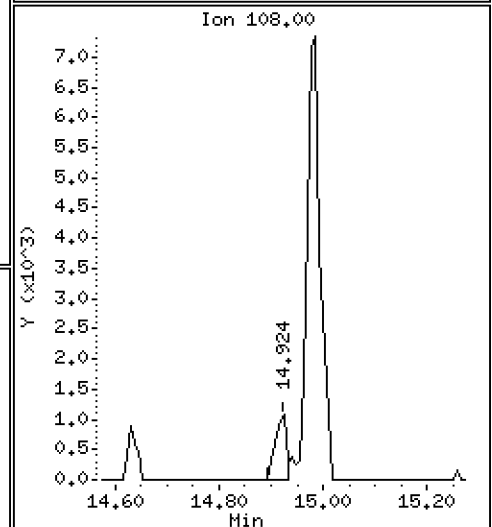
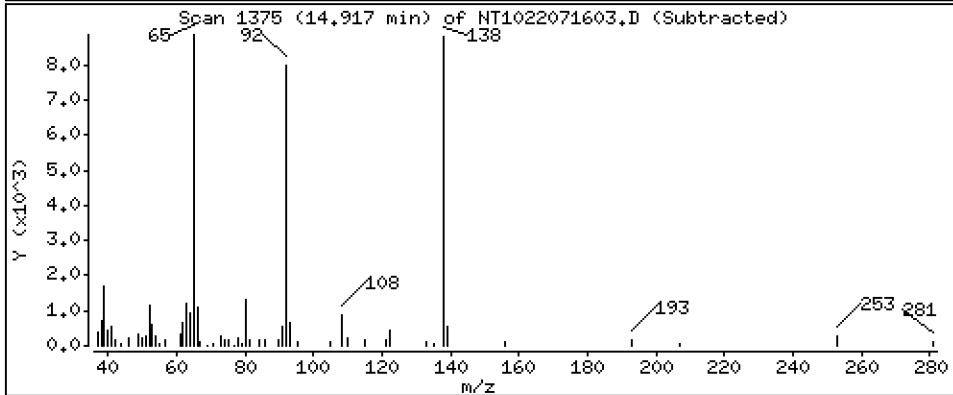
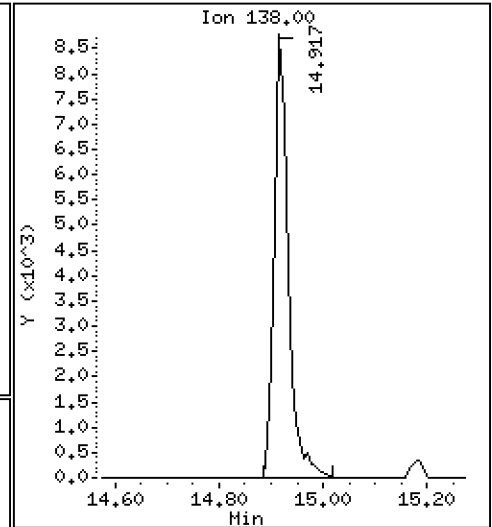
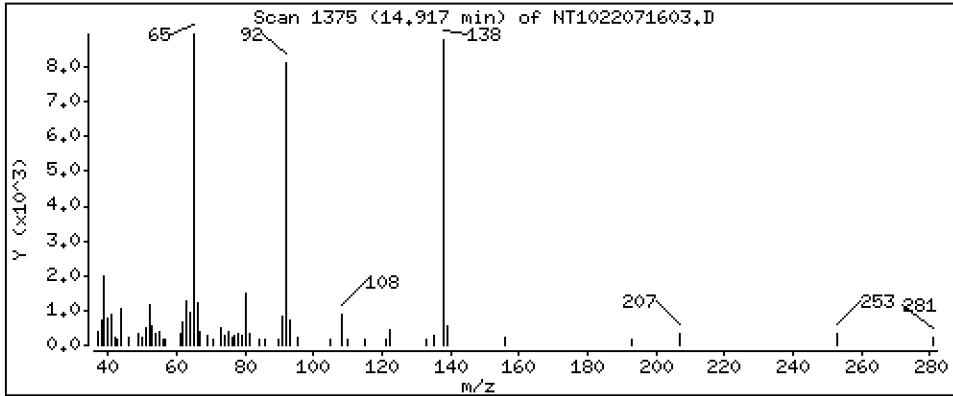
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2401 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

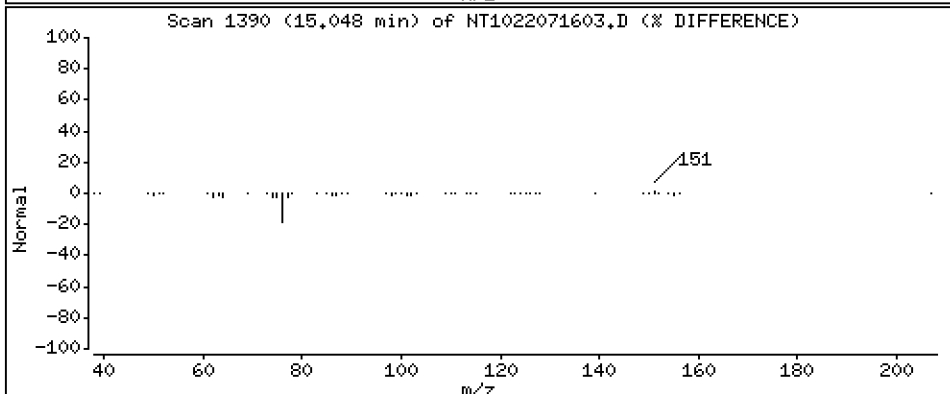
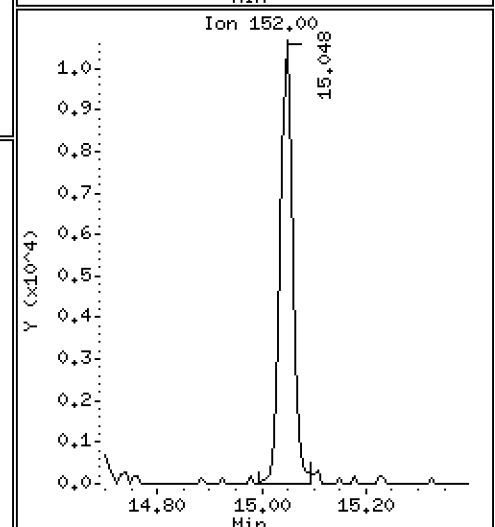
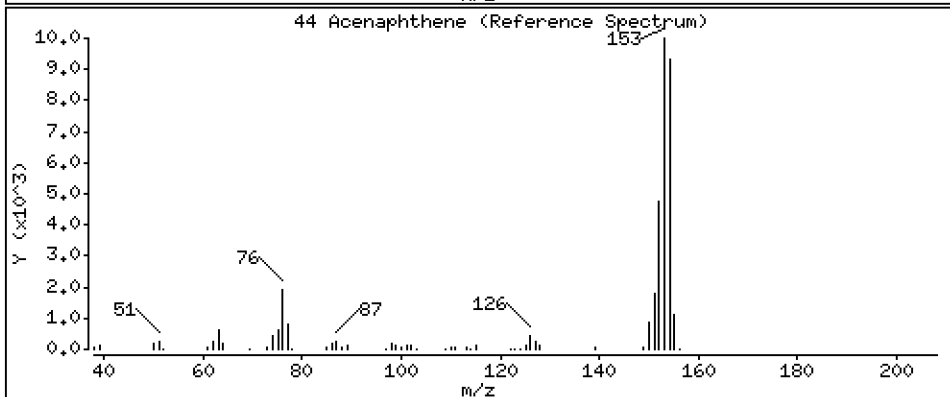
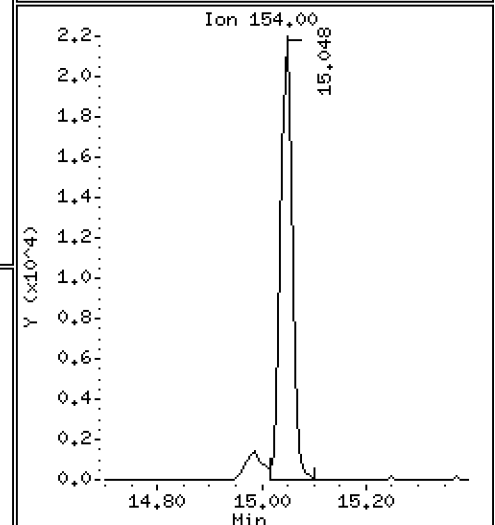
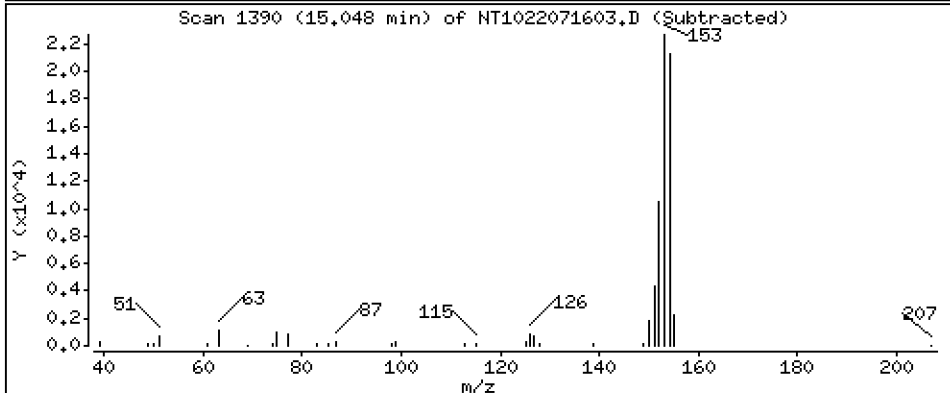
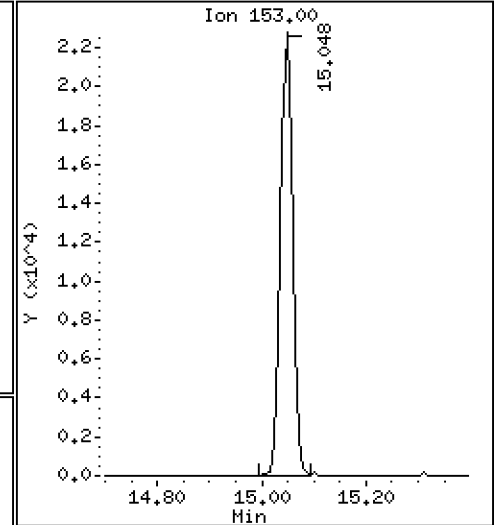
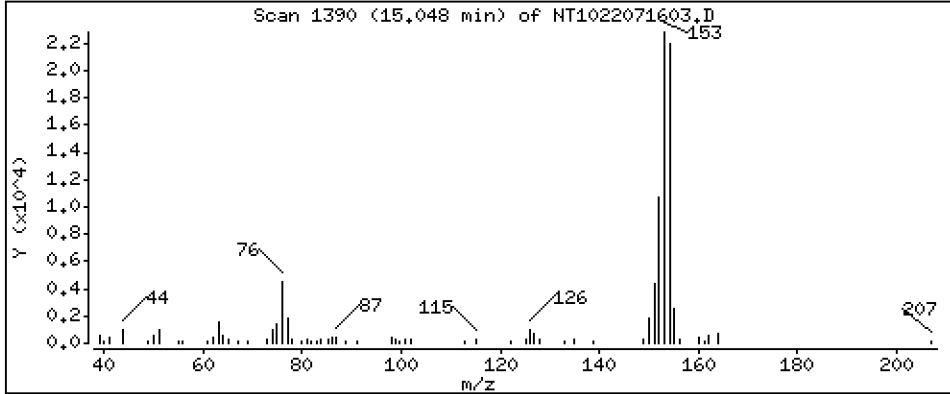
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.1864 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

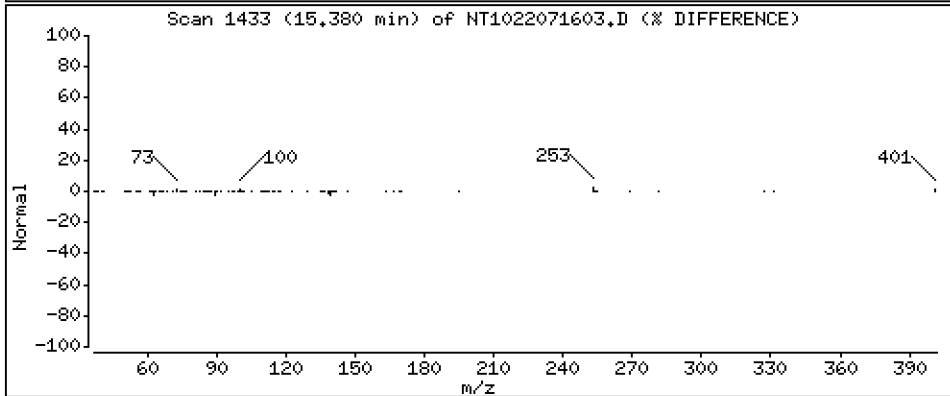
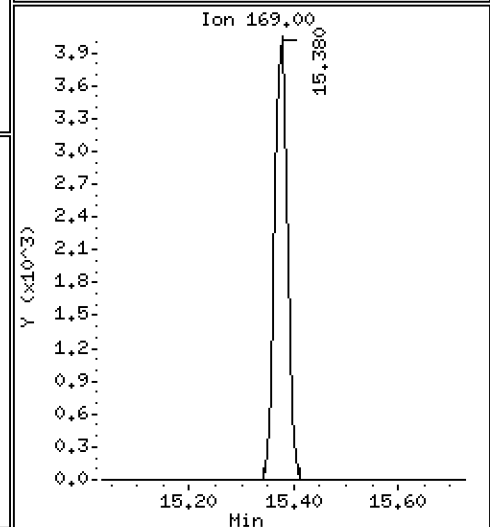
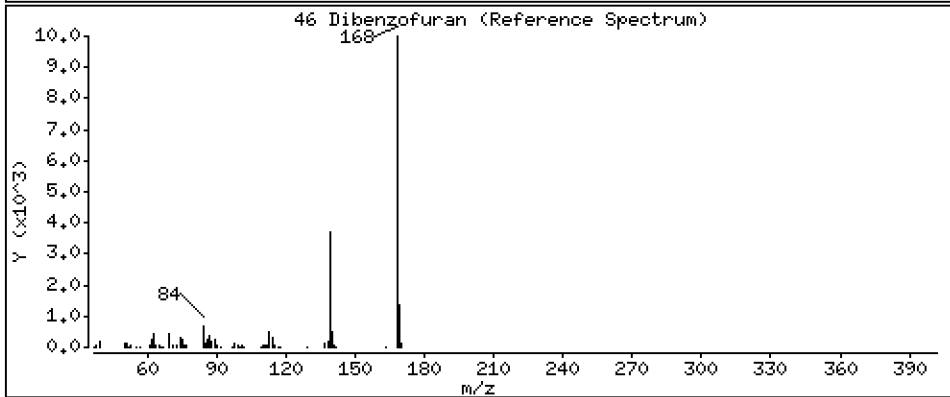
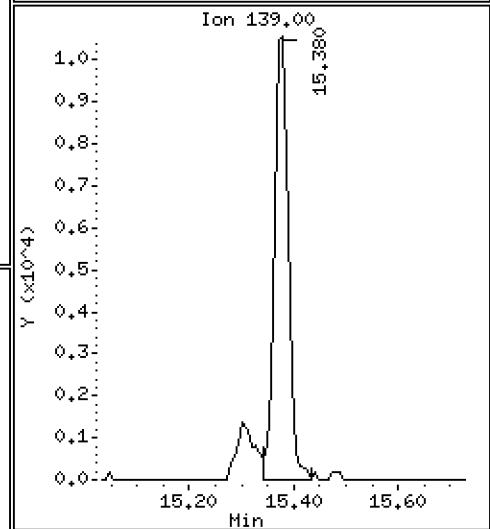
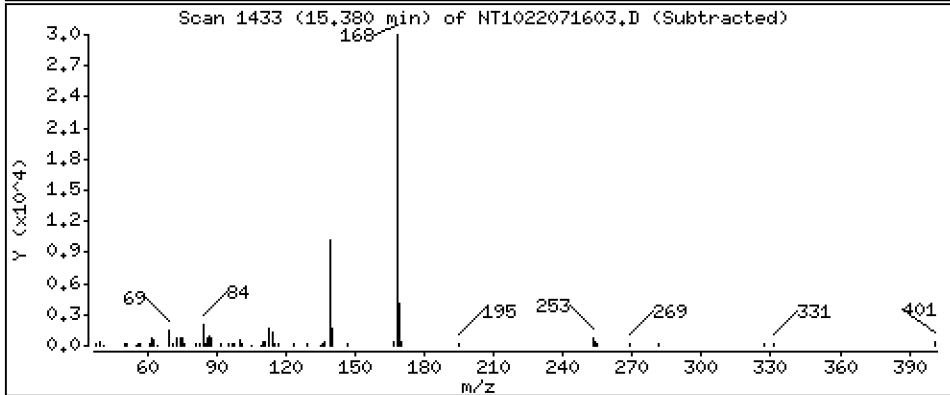
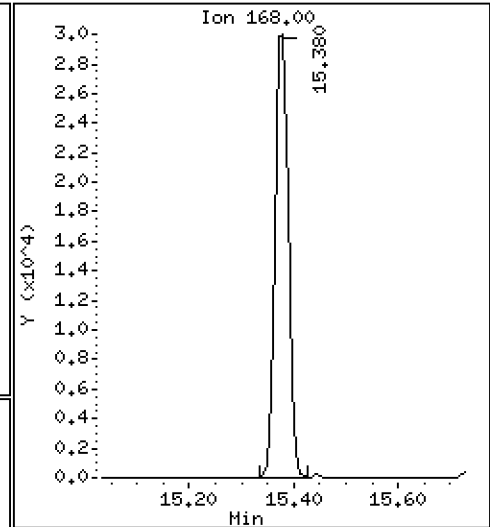
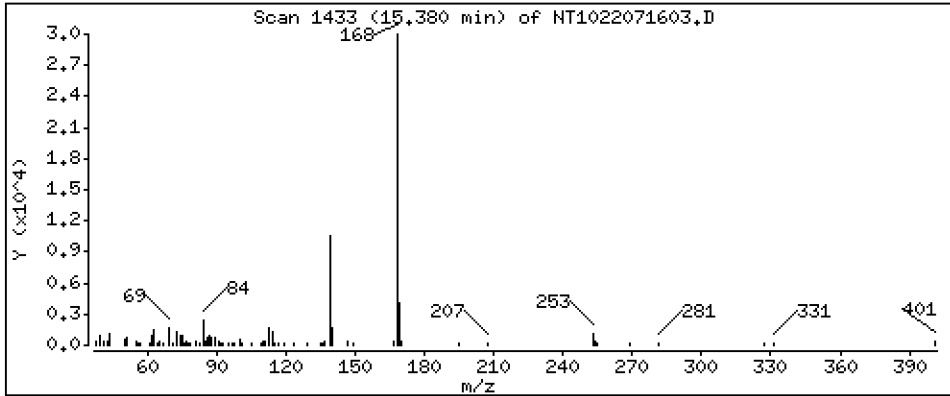
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1442 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

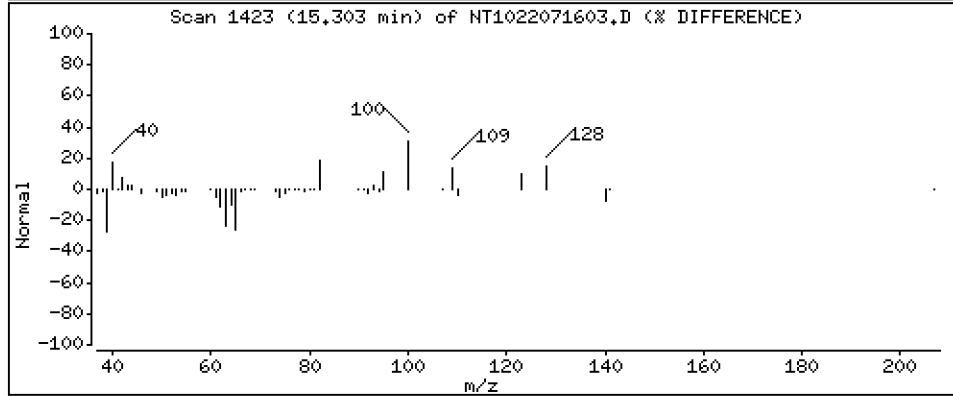
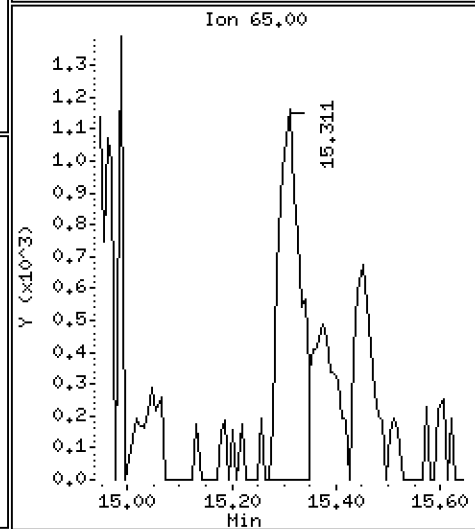
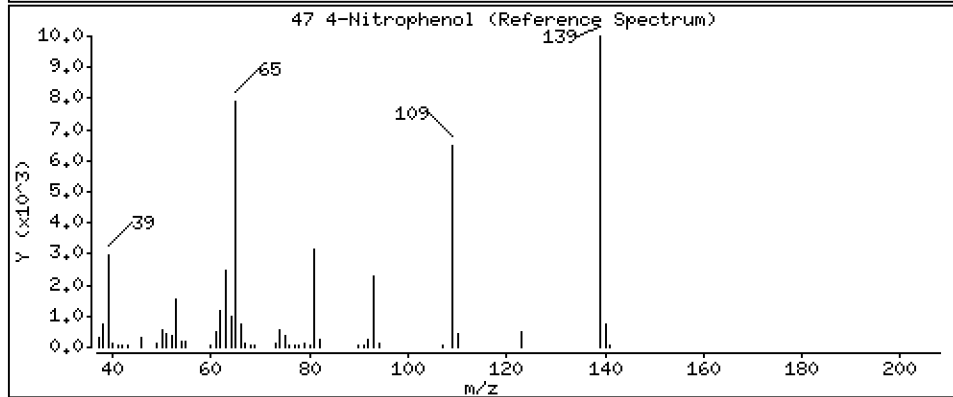
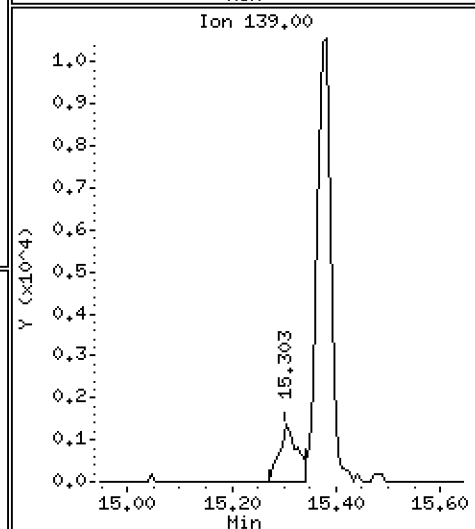
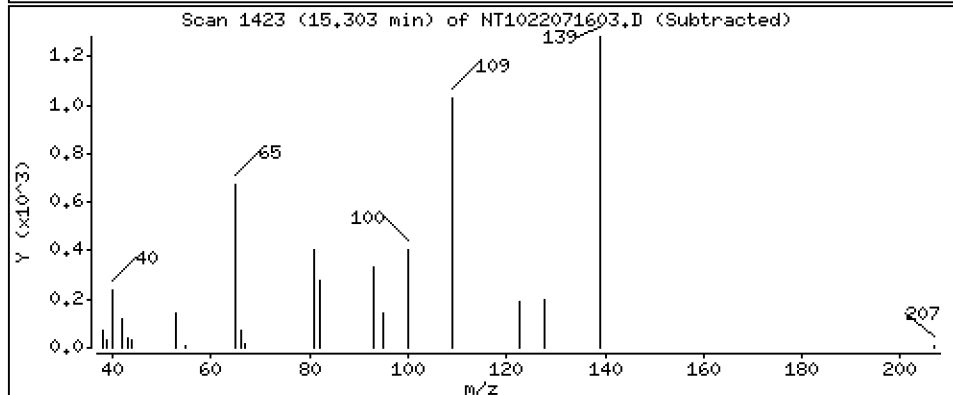
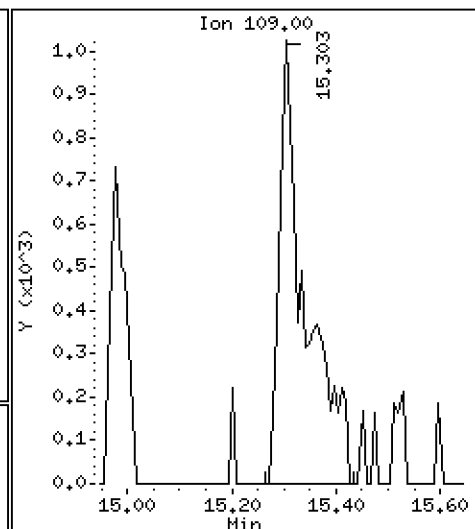
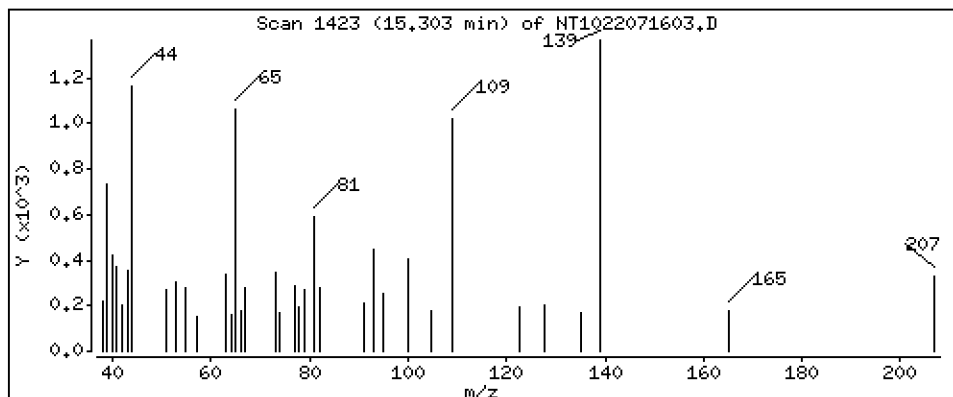
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,1482 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

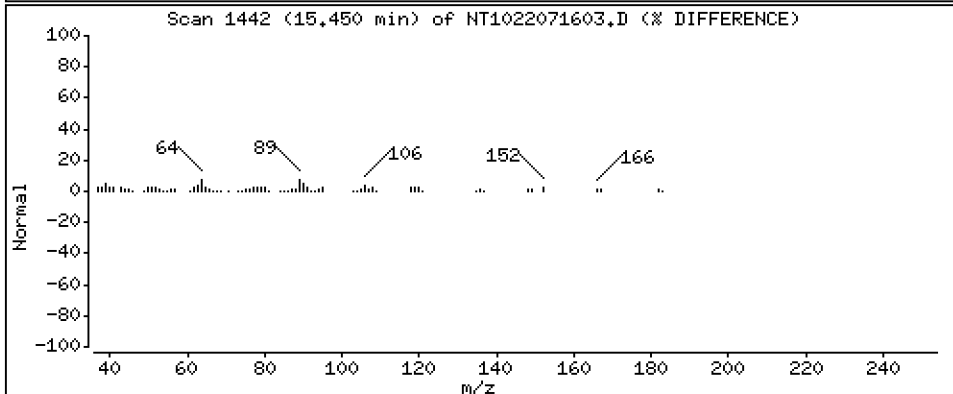
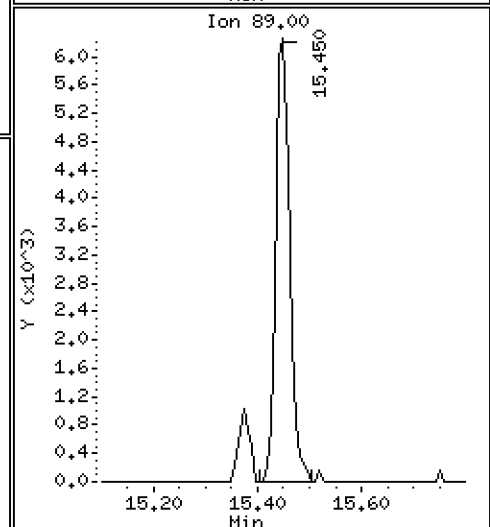
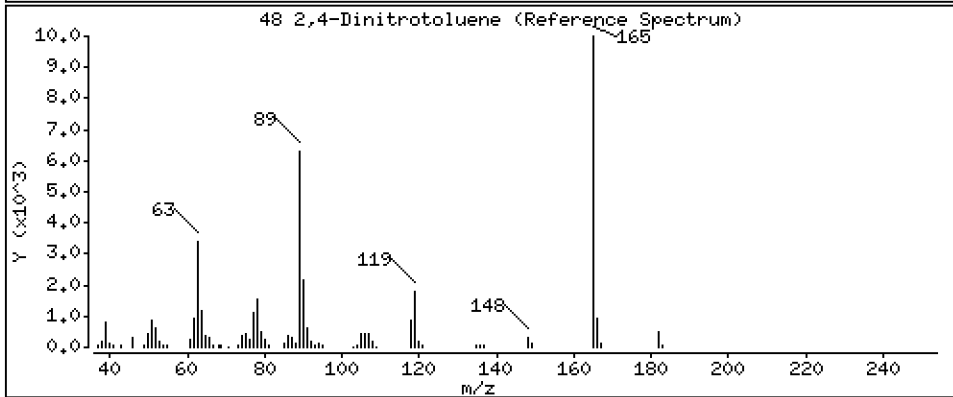
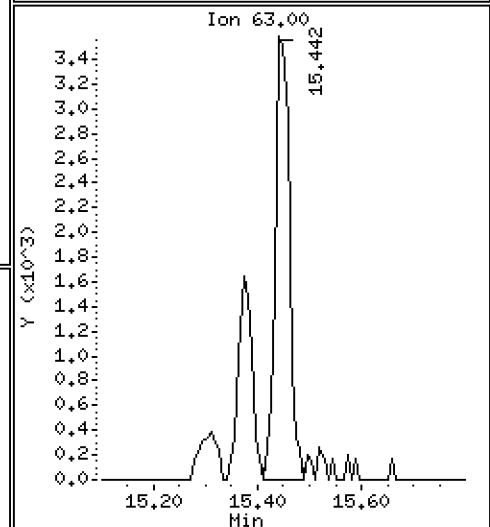
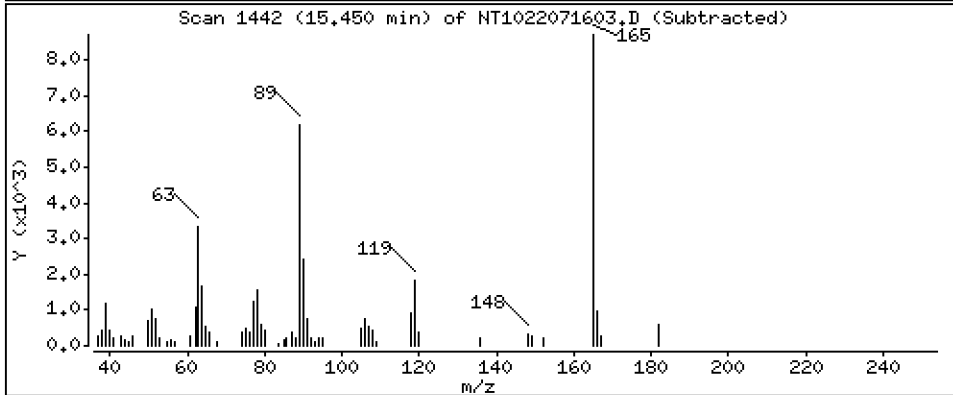
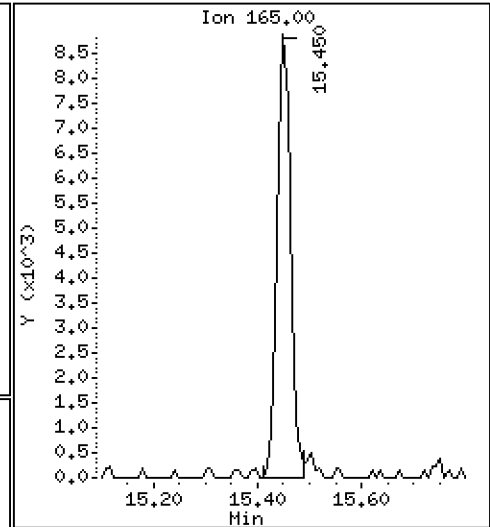
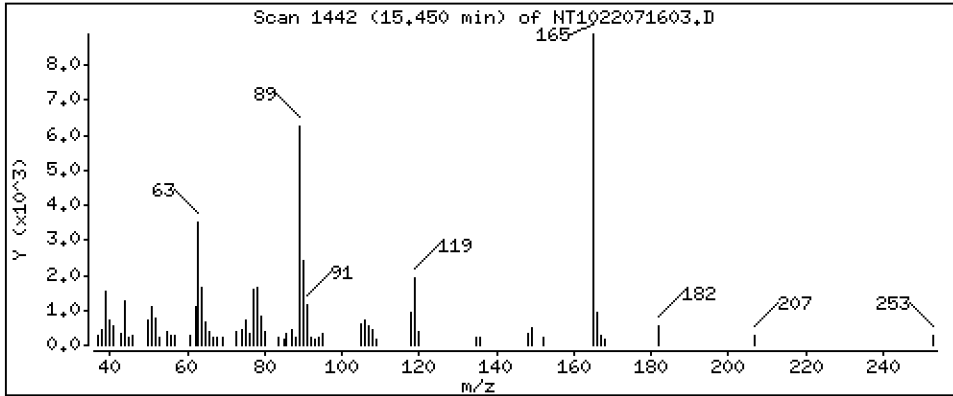
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,1824 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

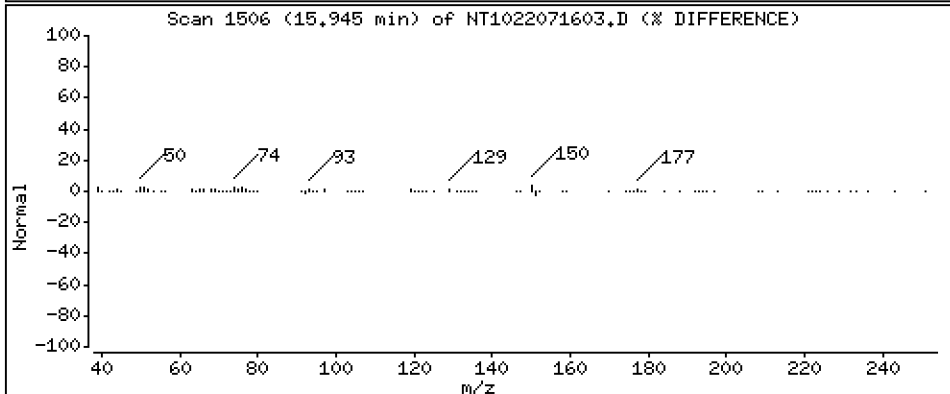
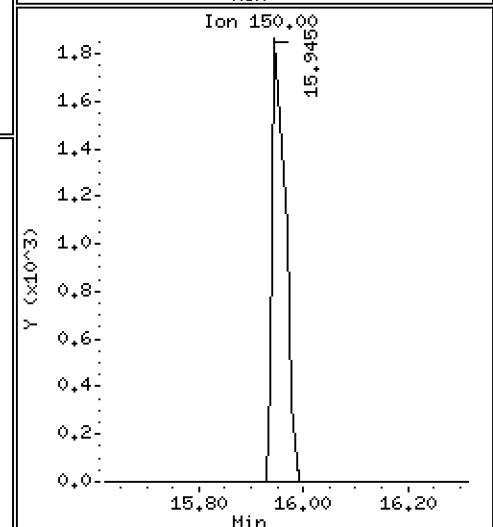
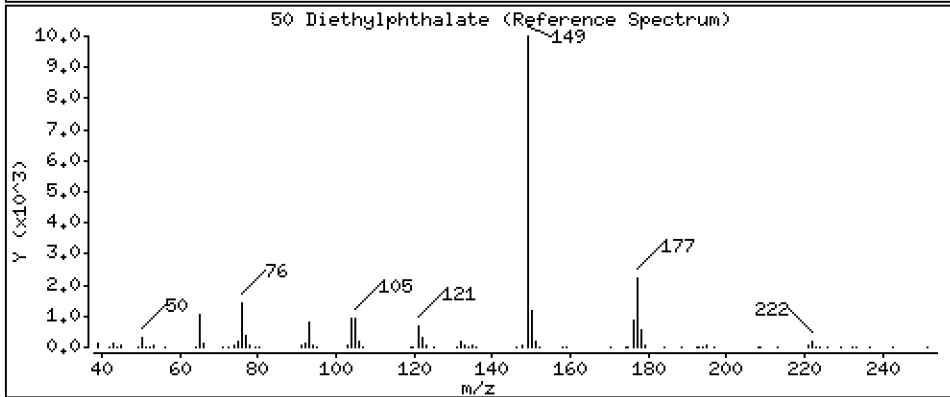
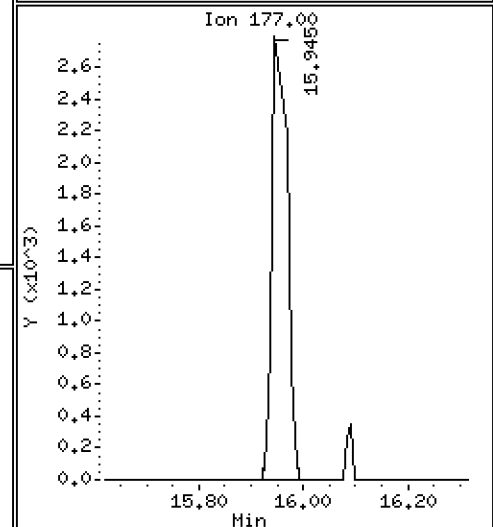
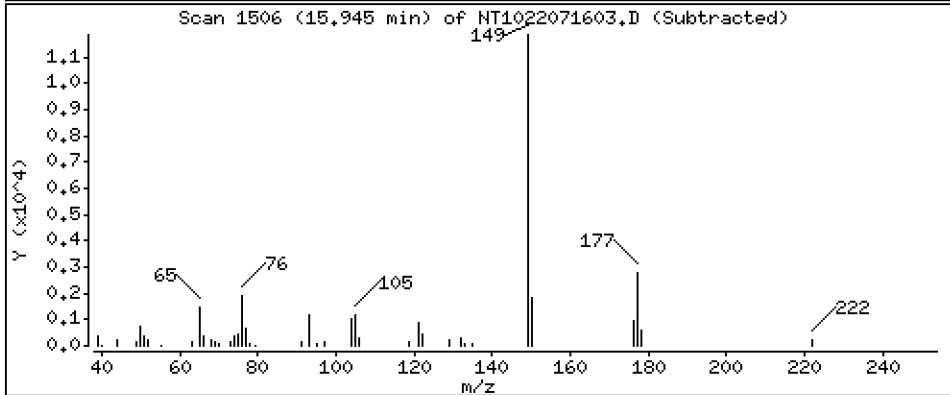
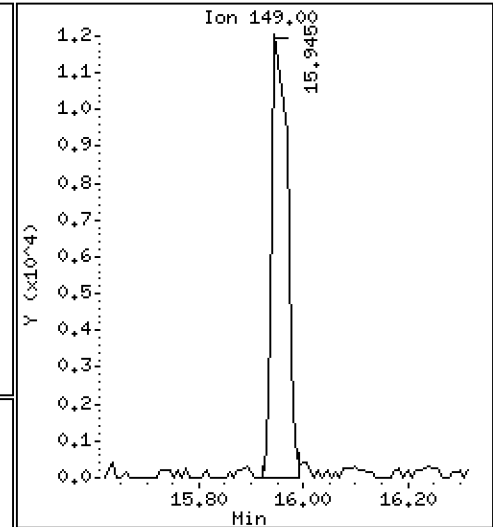
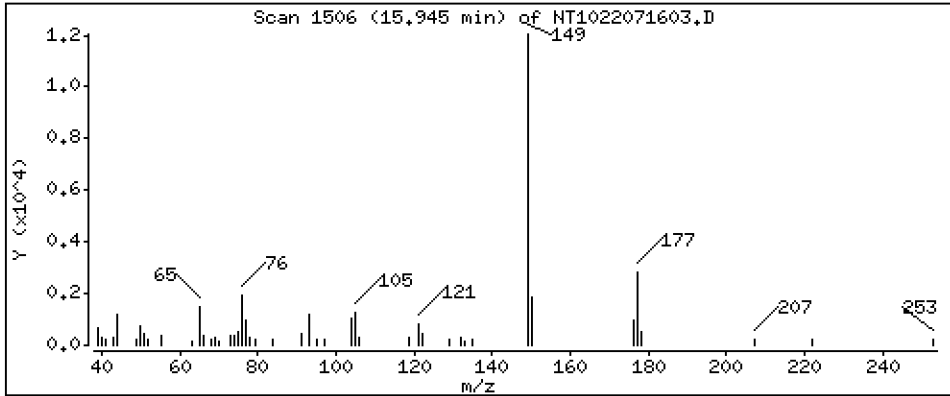
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,08009 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

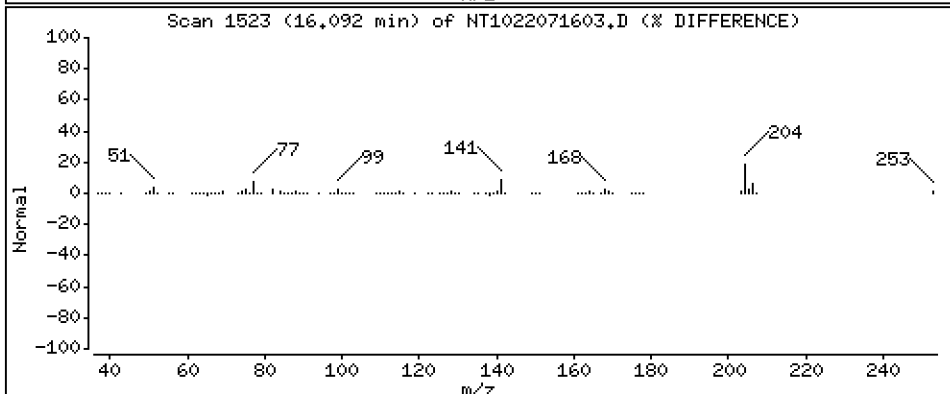
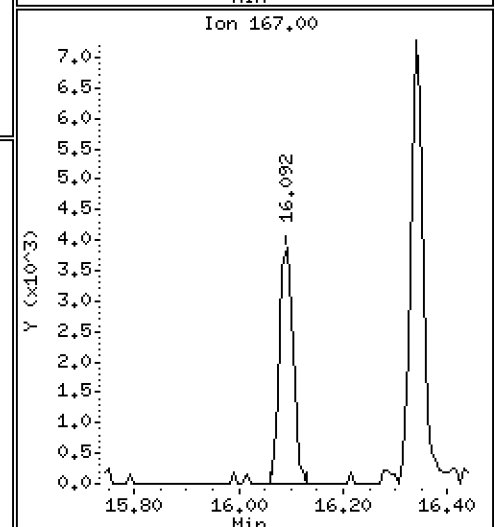
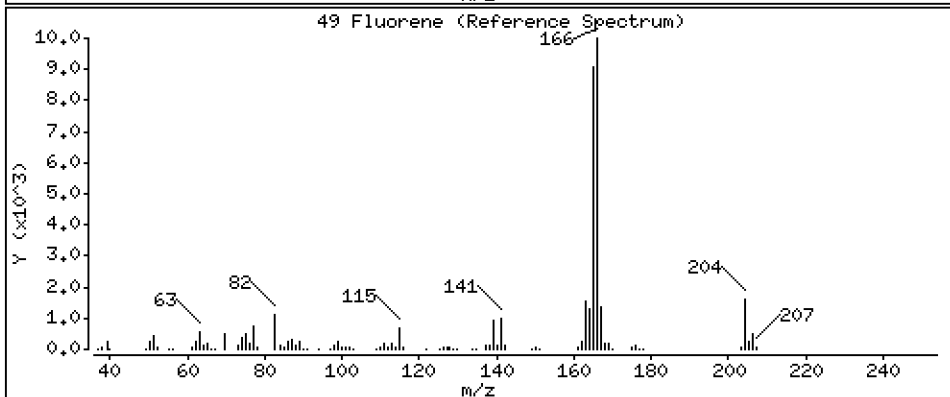
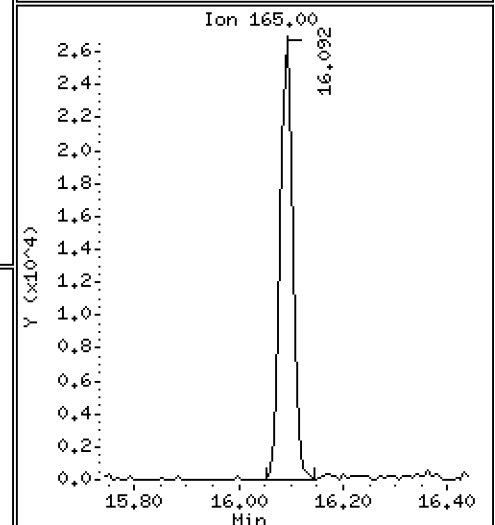
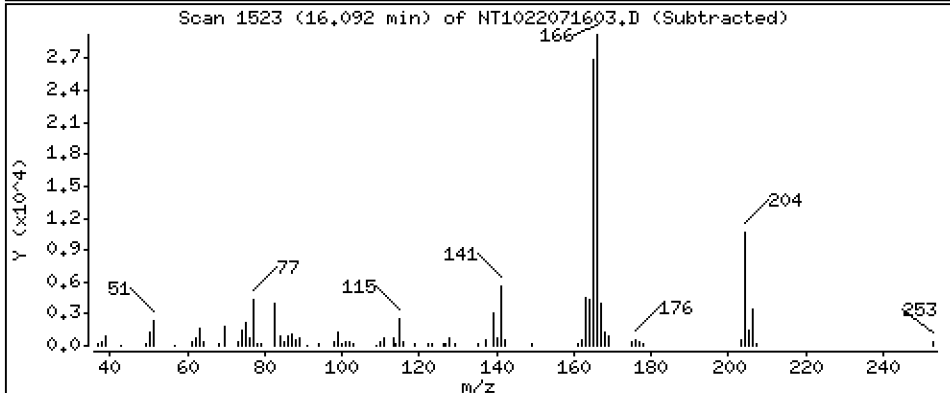
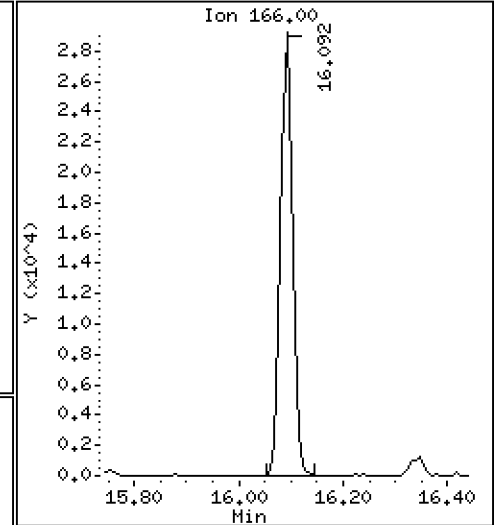
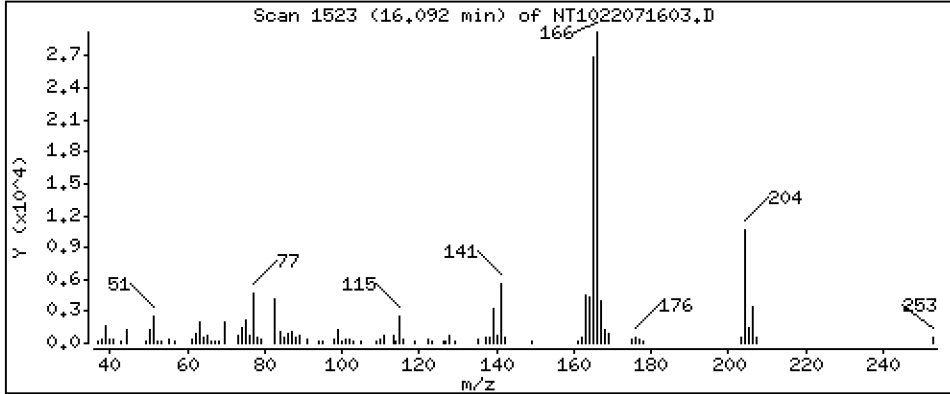
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,1059 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

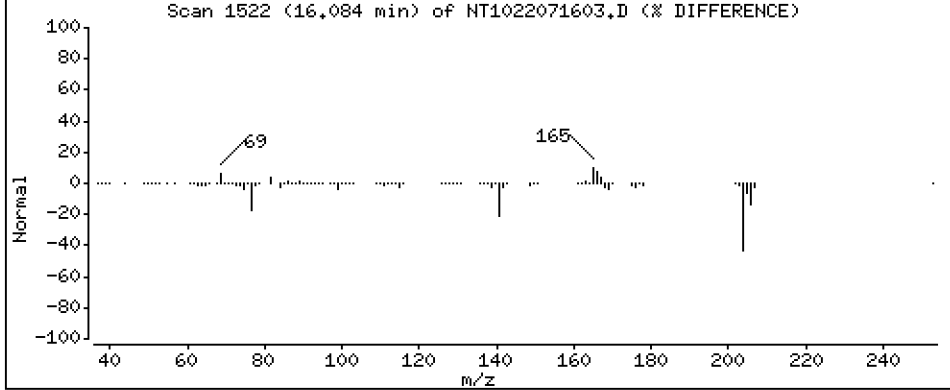
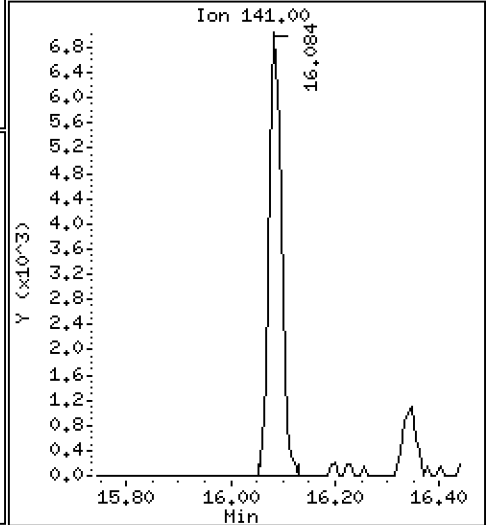
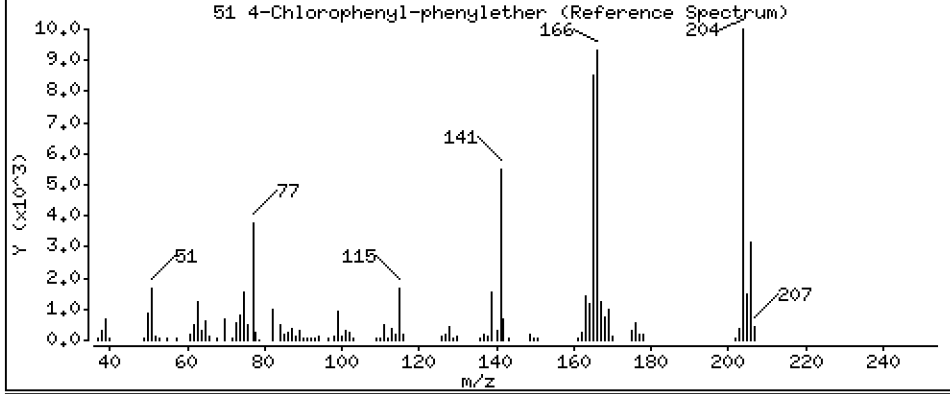
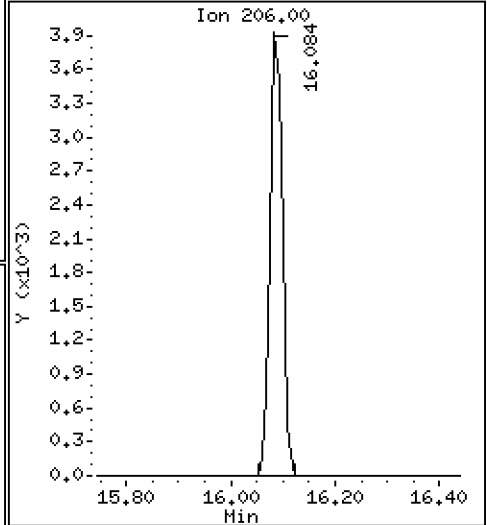
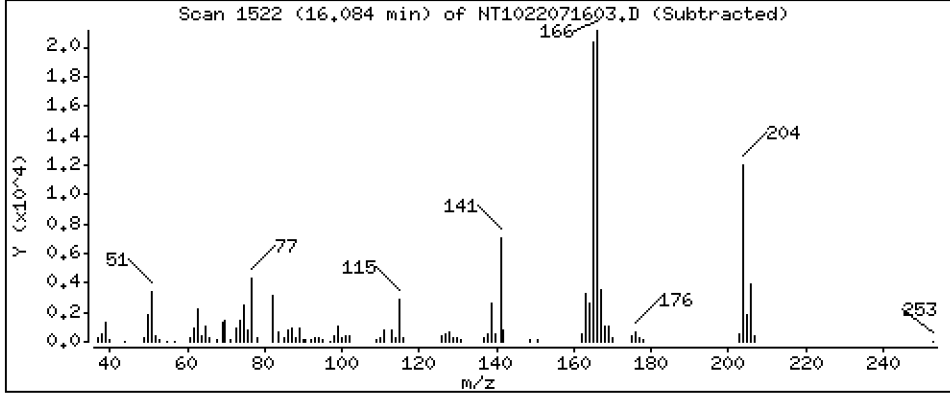
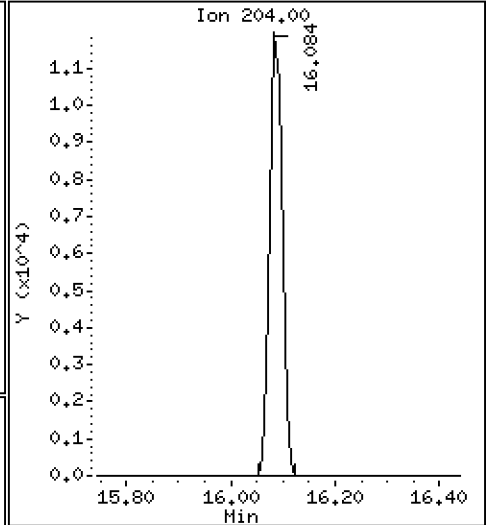
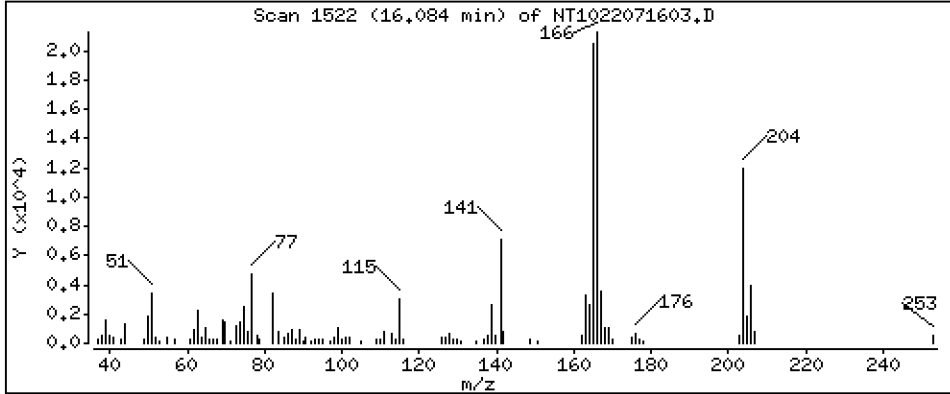
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,1032 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

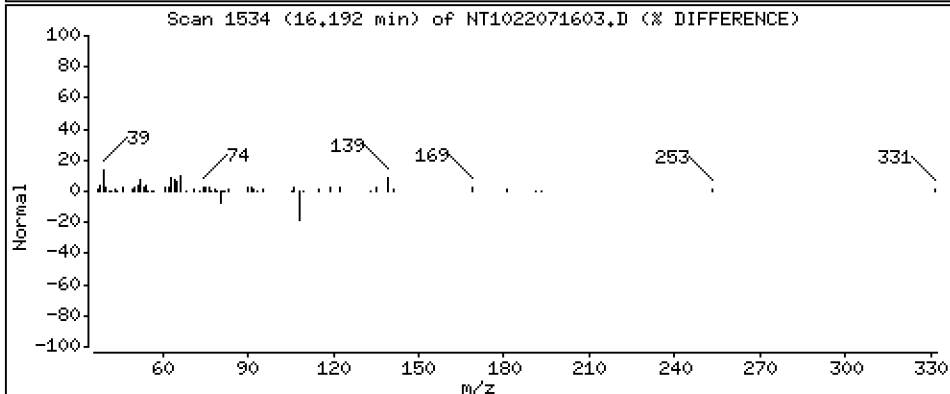
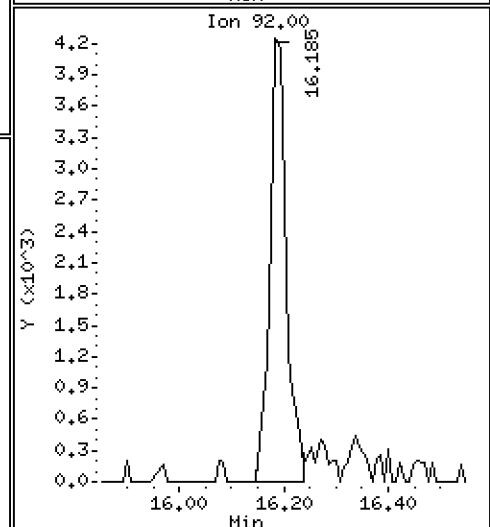
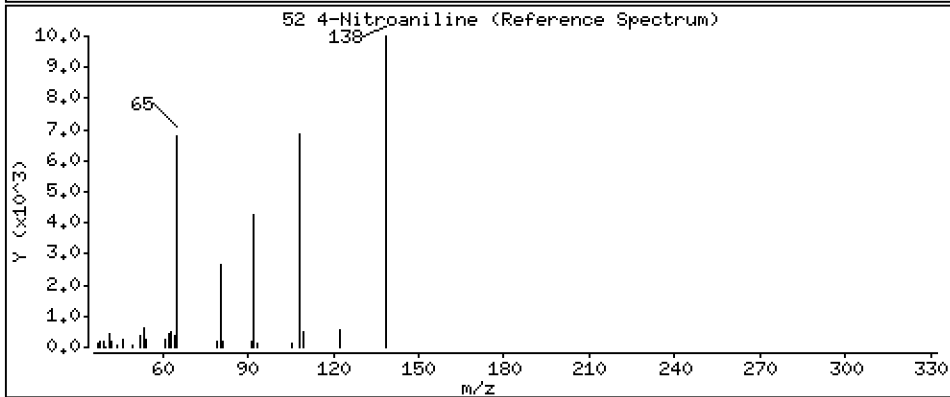
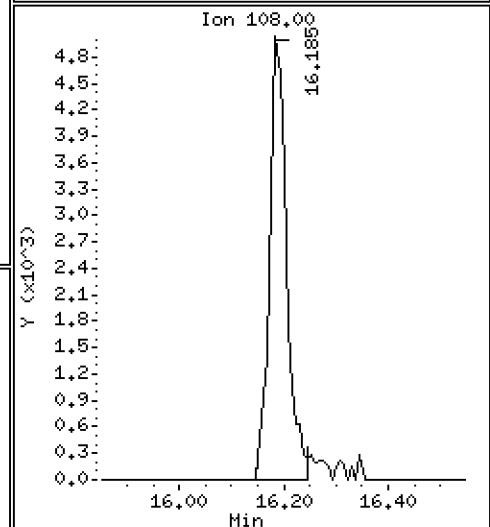
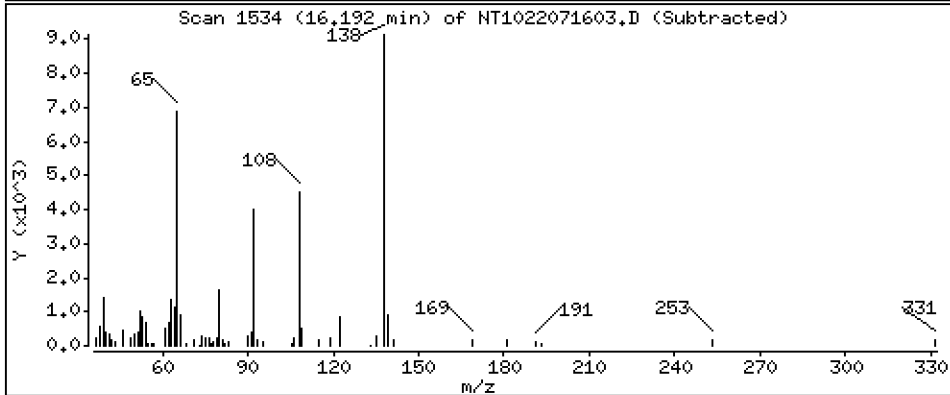
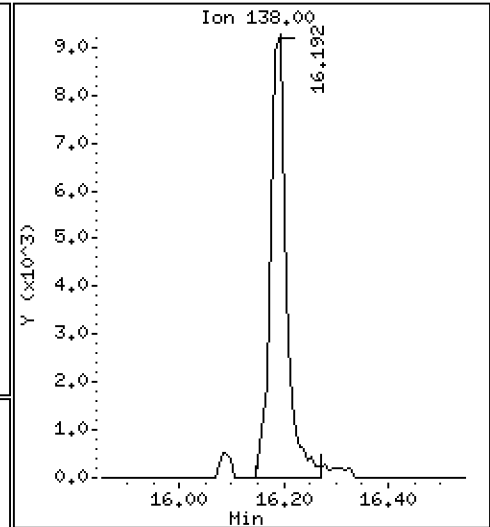
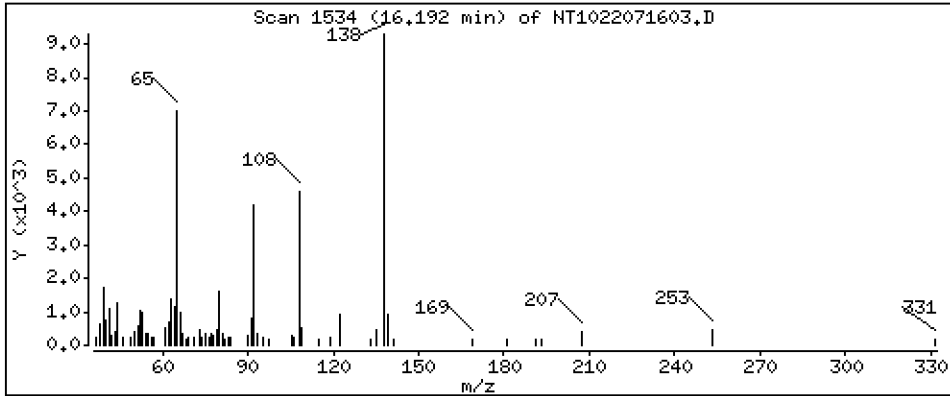
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2801 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

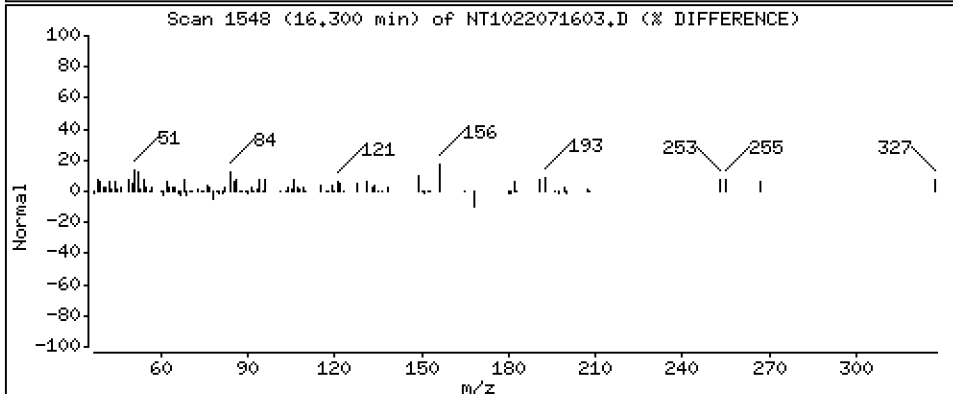
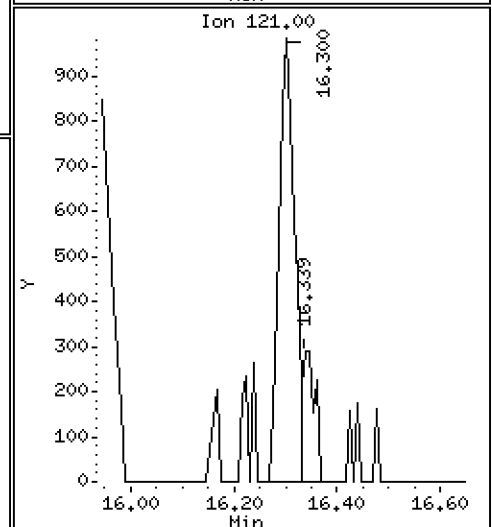
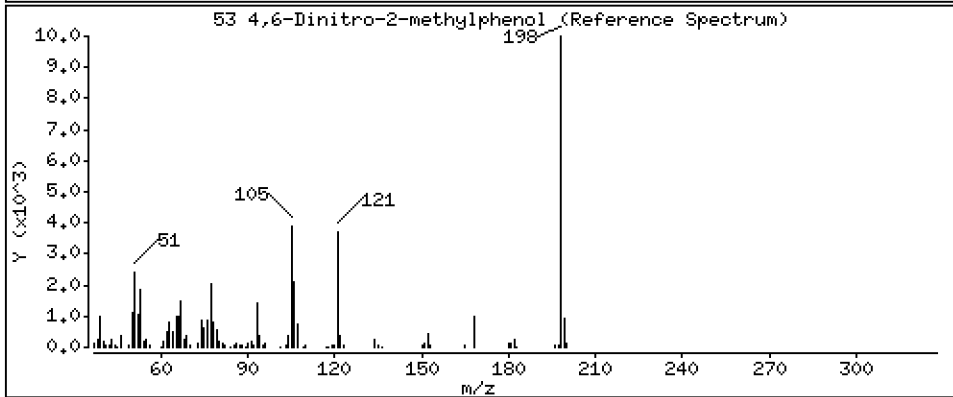
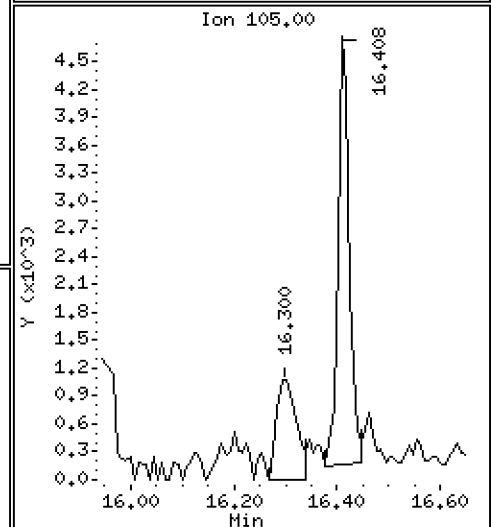
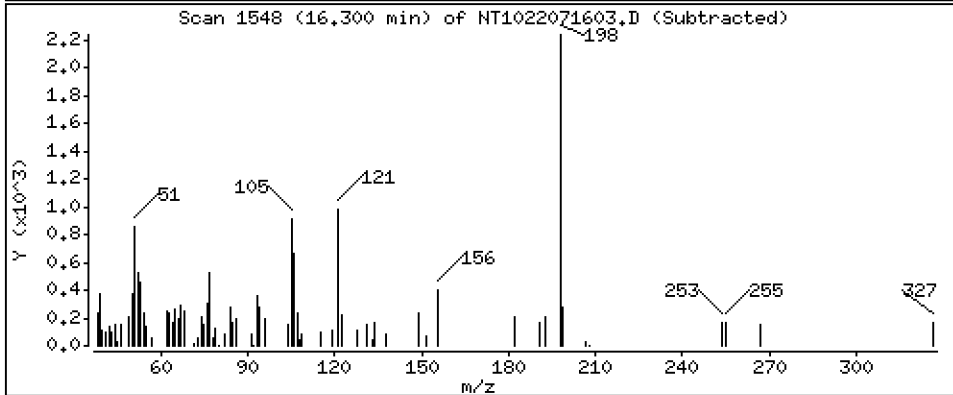
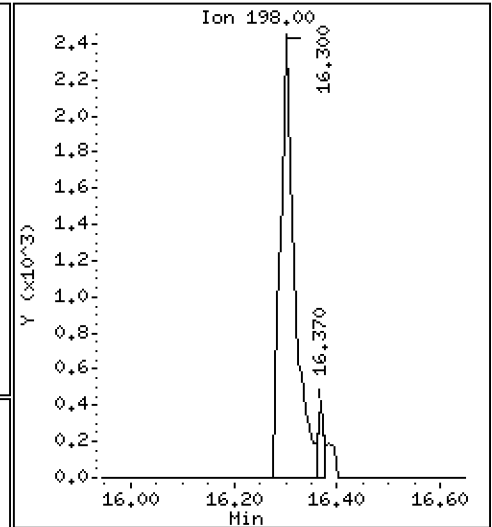
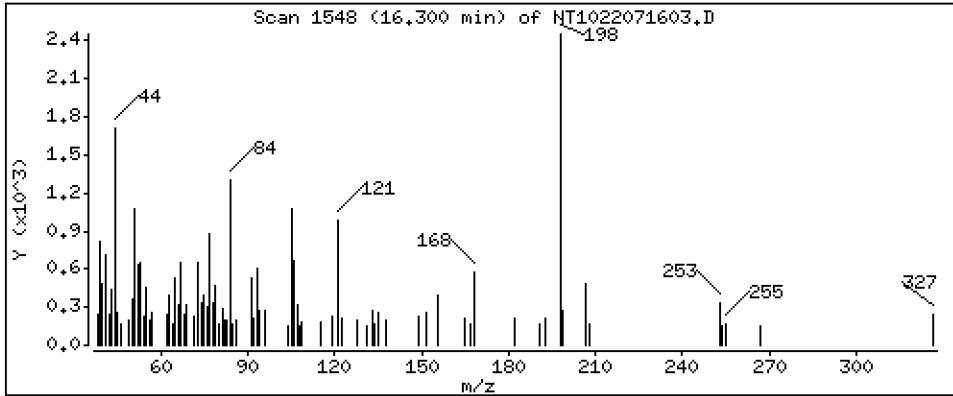
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,1356 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

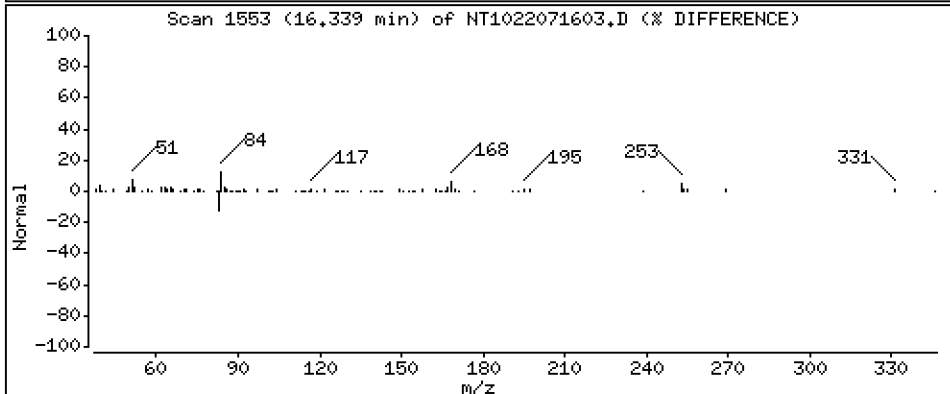
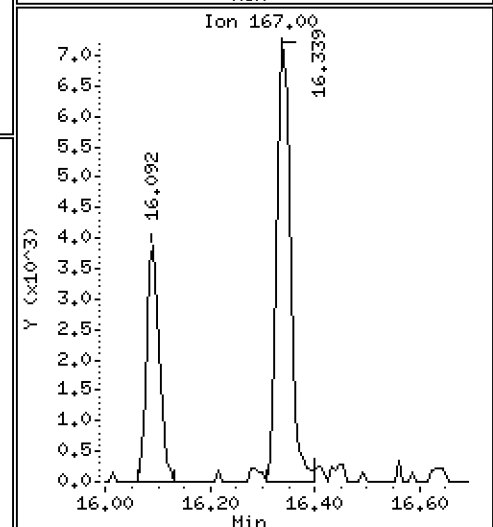
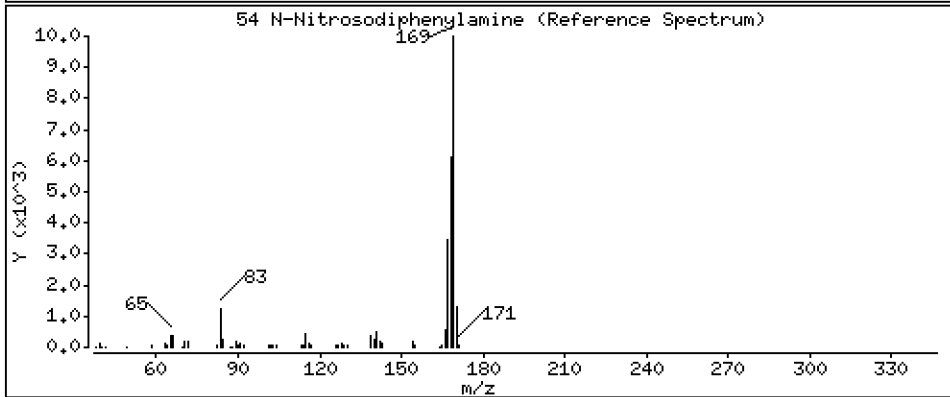
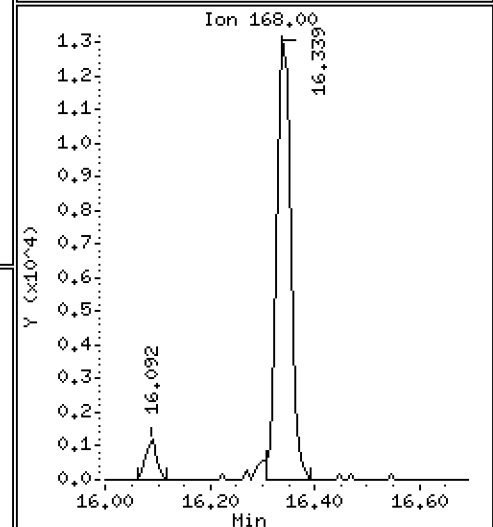
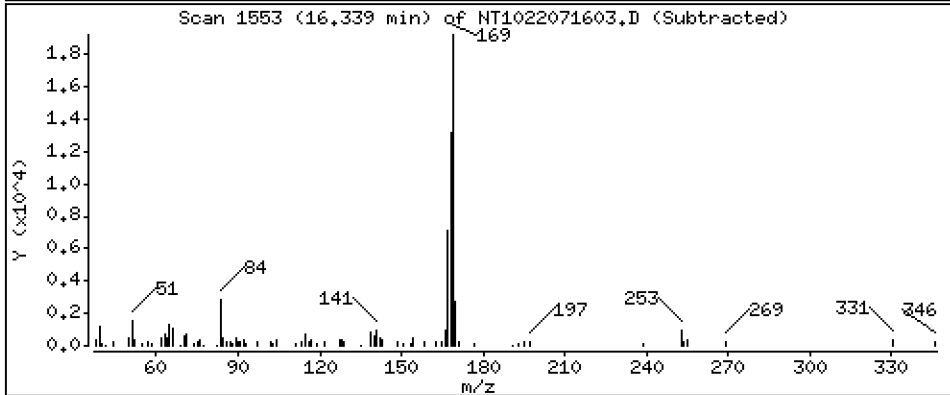
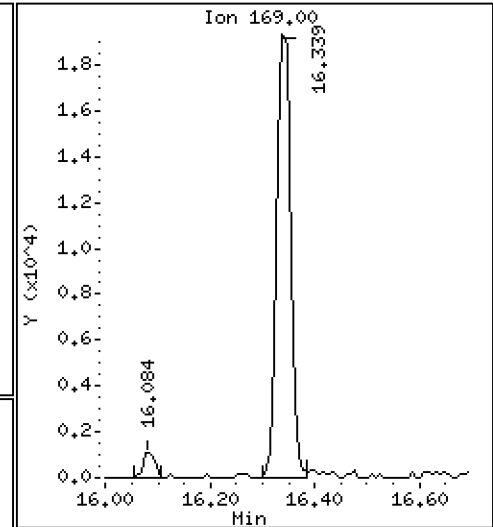
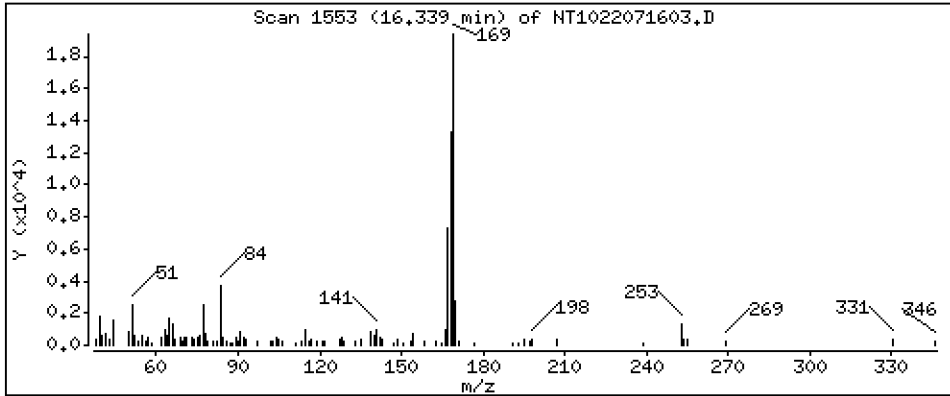
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2484 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

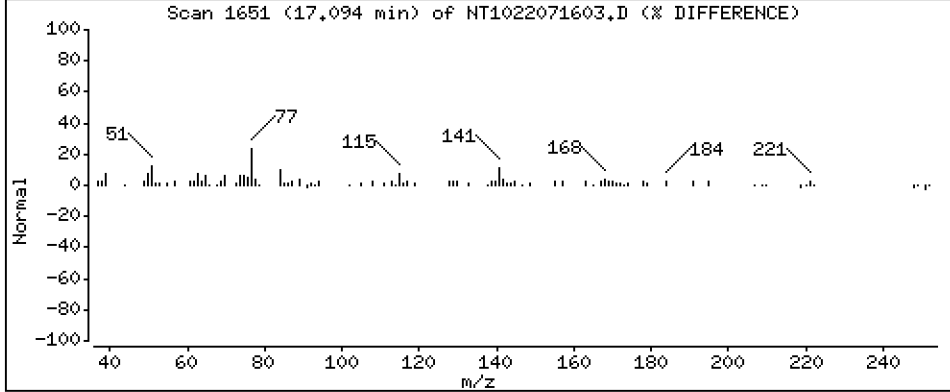
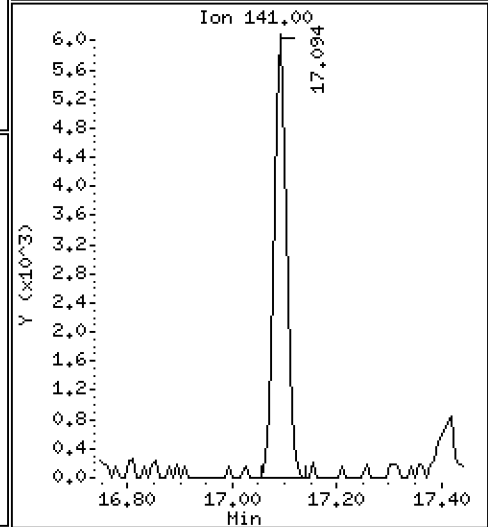
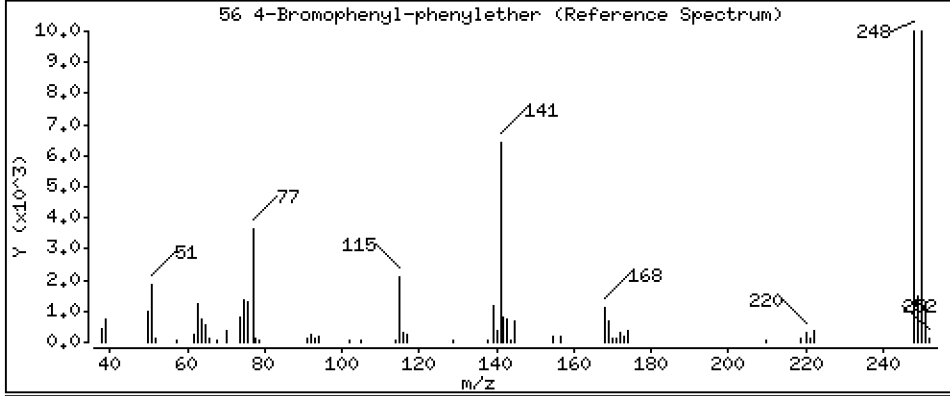
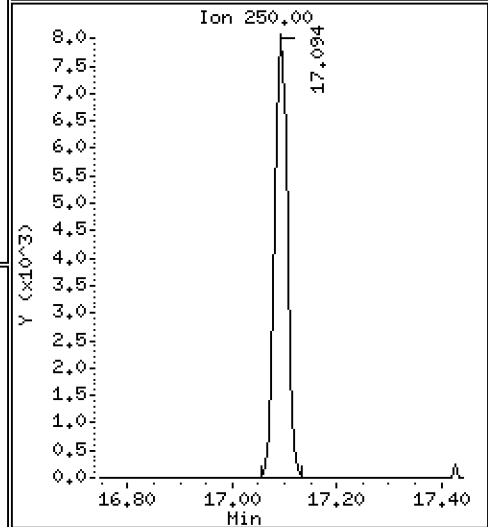
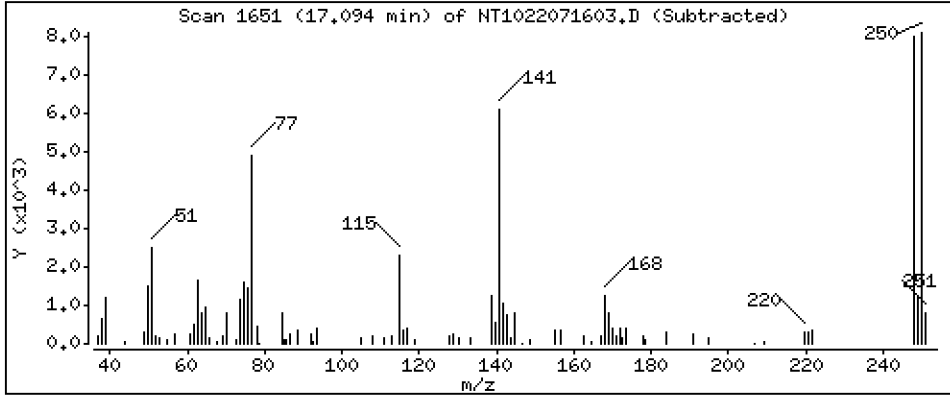
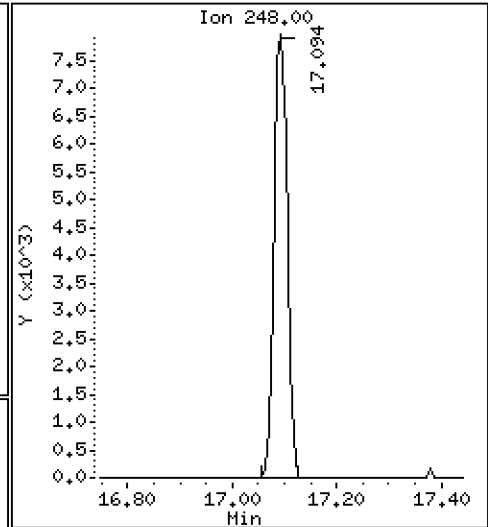
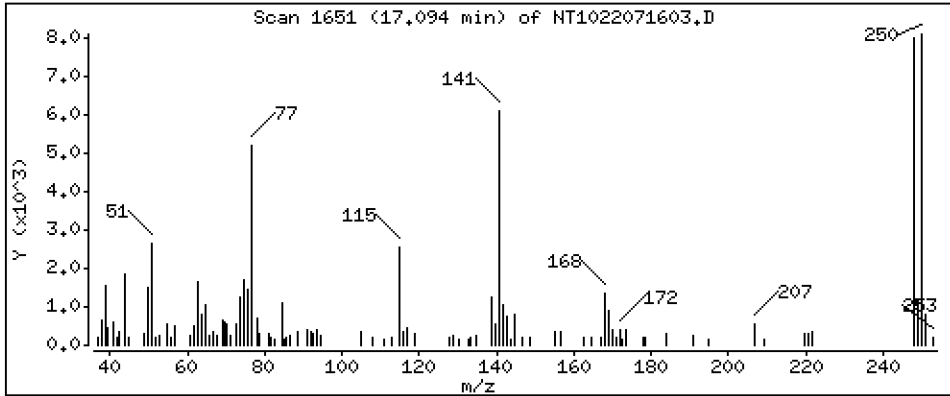
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2078 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

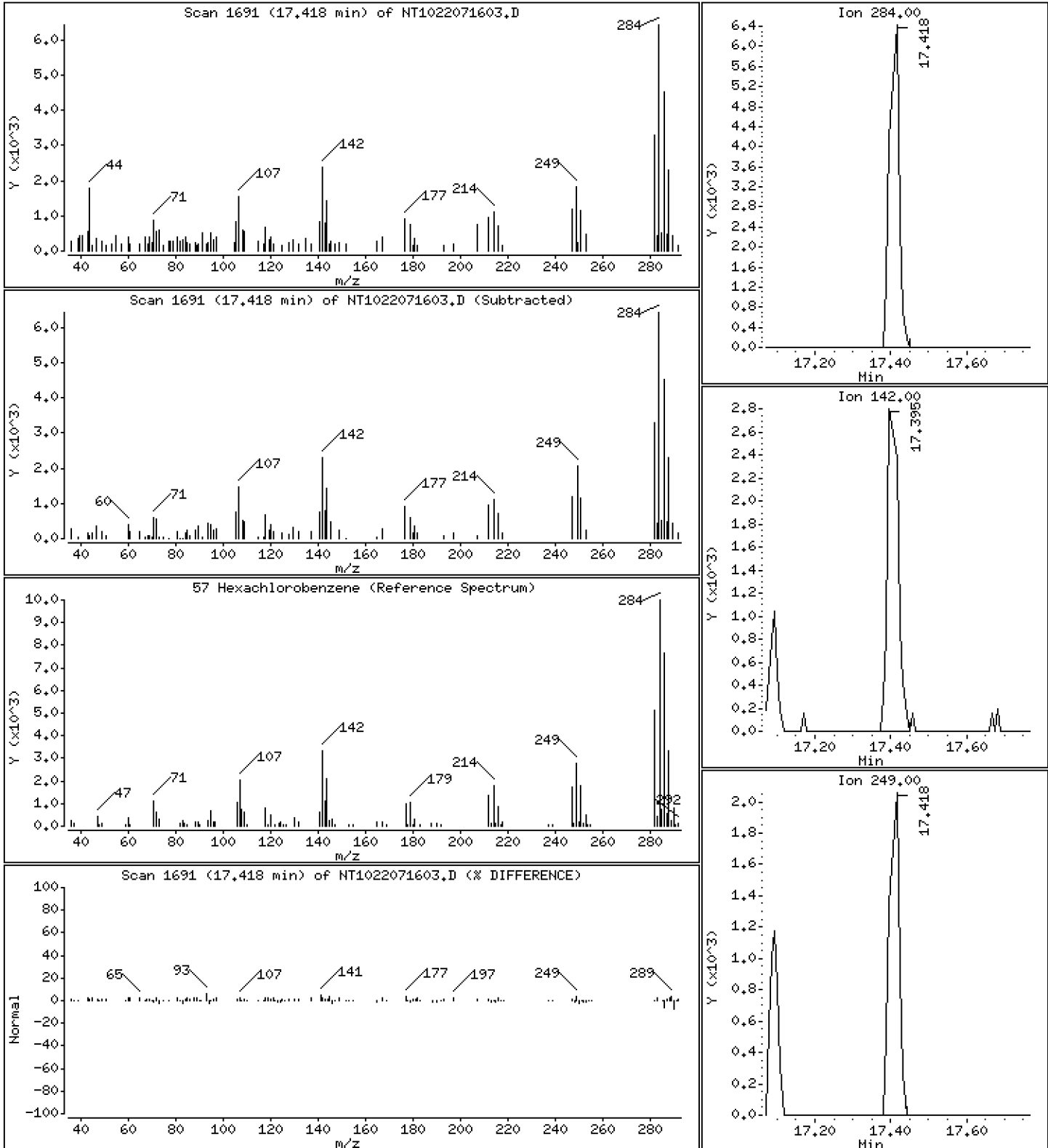
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.1484 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

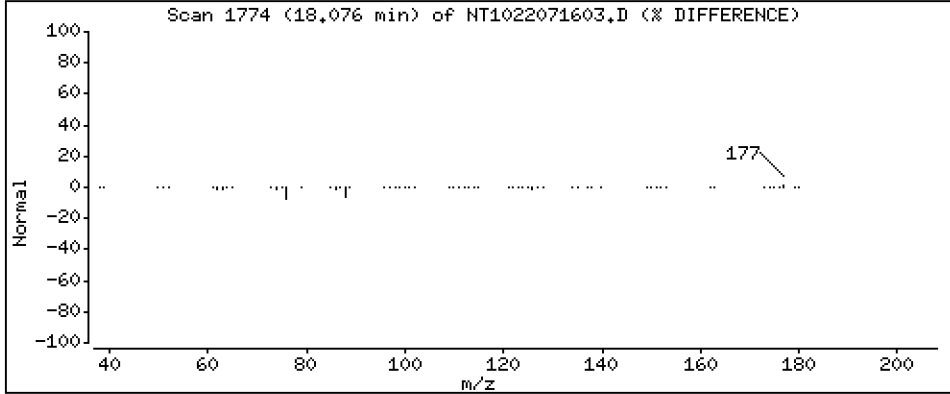
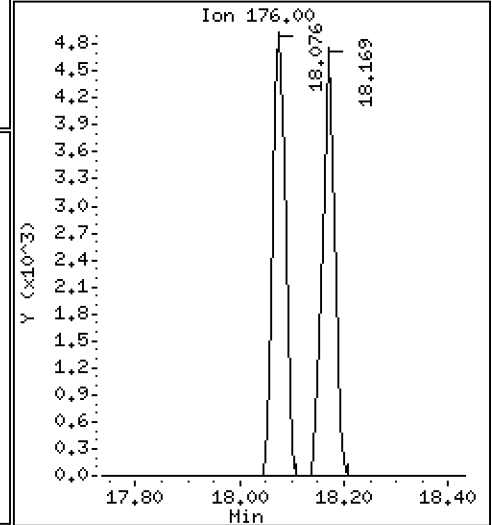
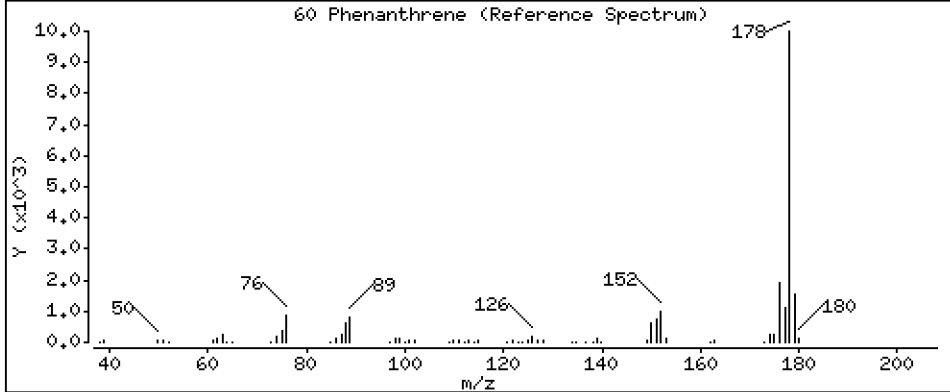
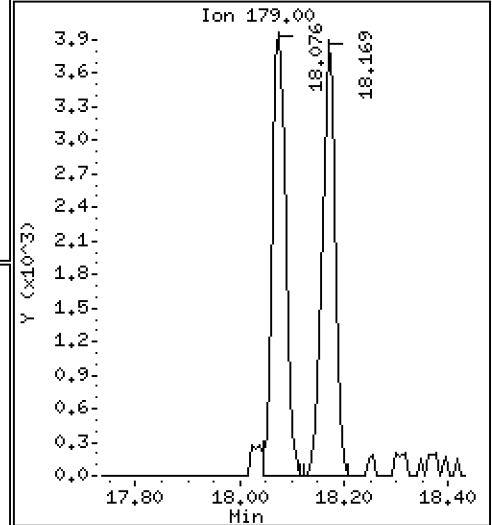
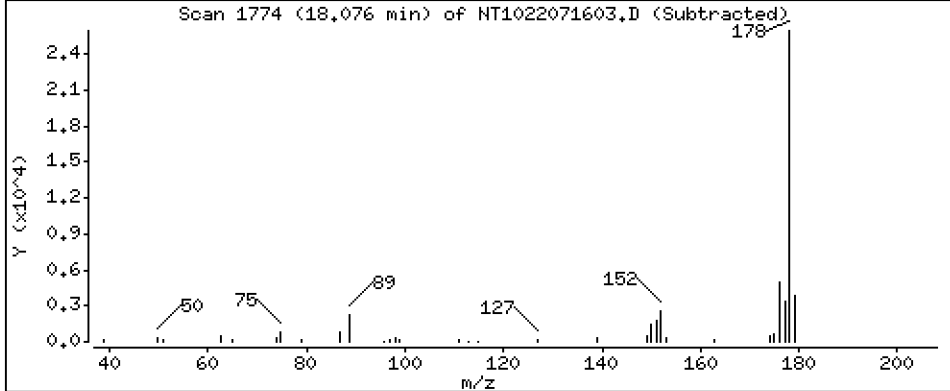
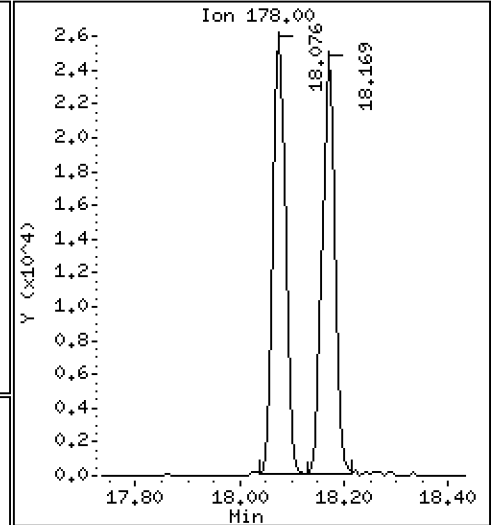
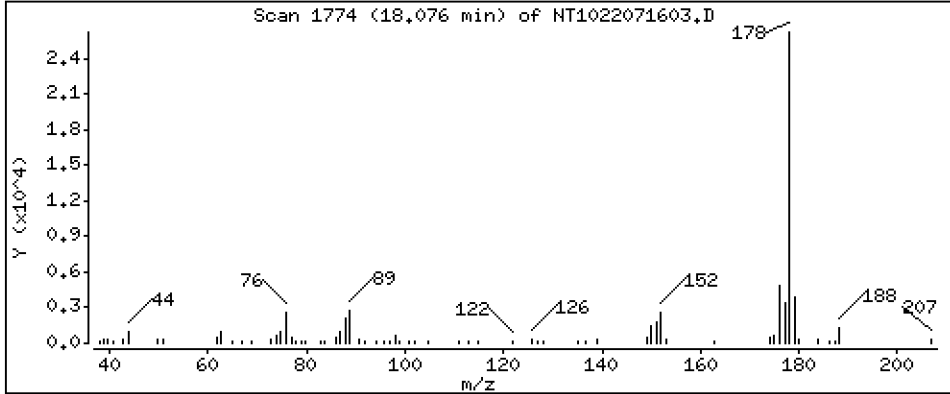
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,1795 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

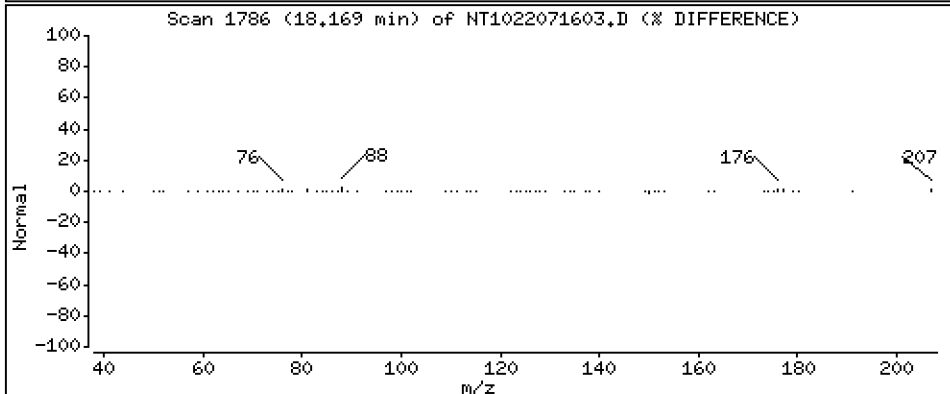
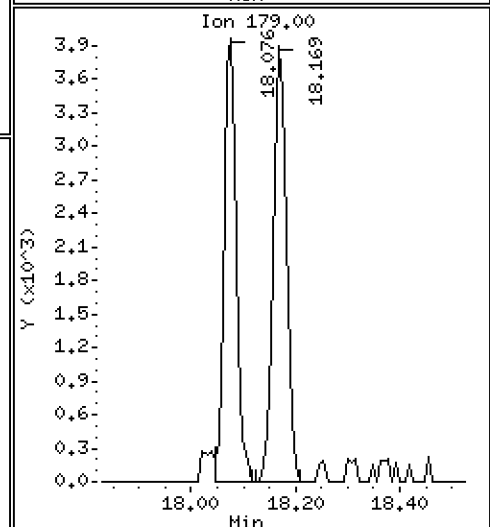
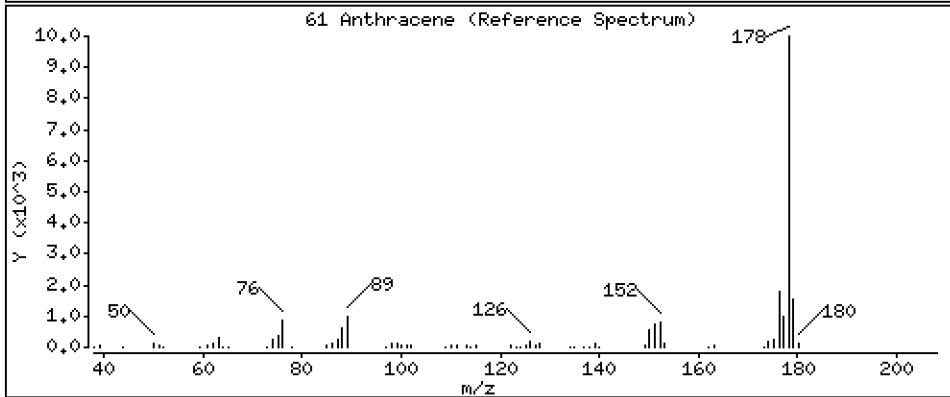
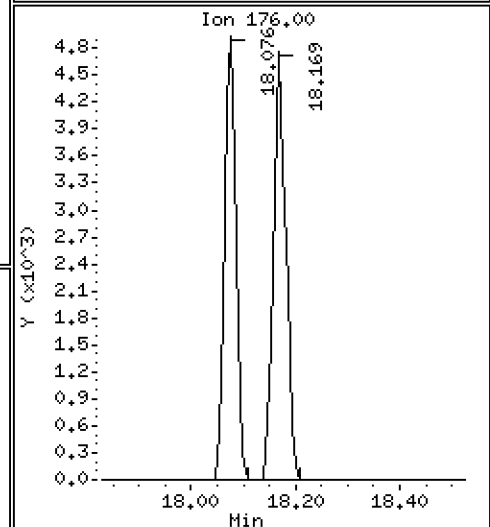
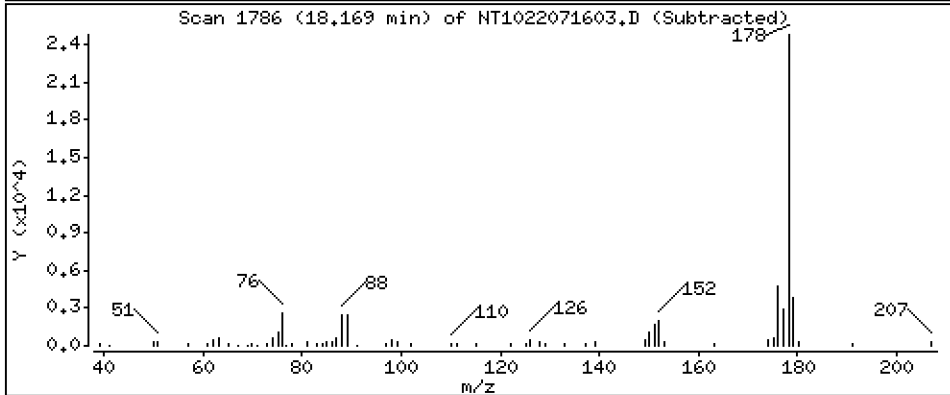
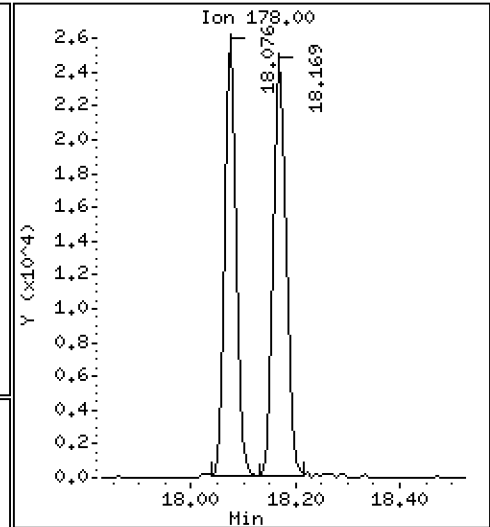
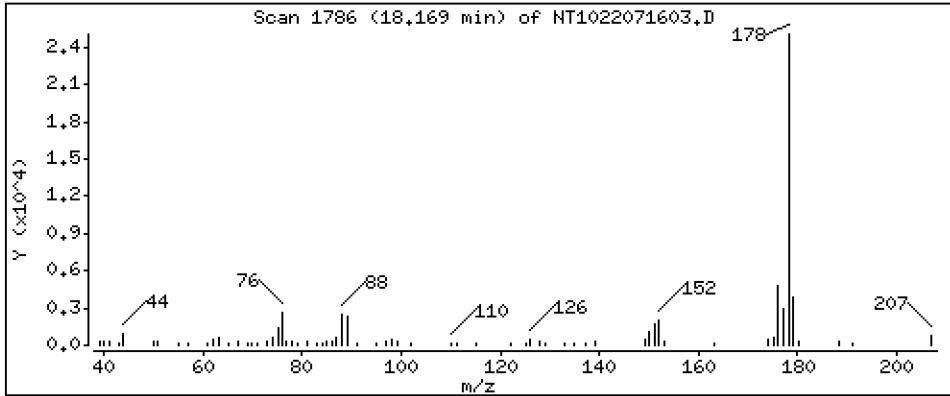
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 0.1679 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

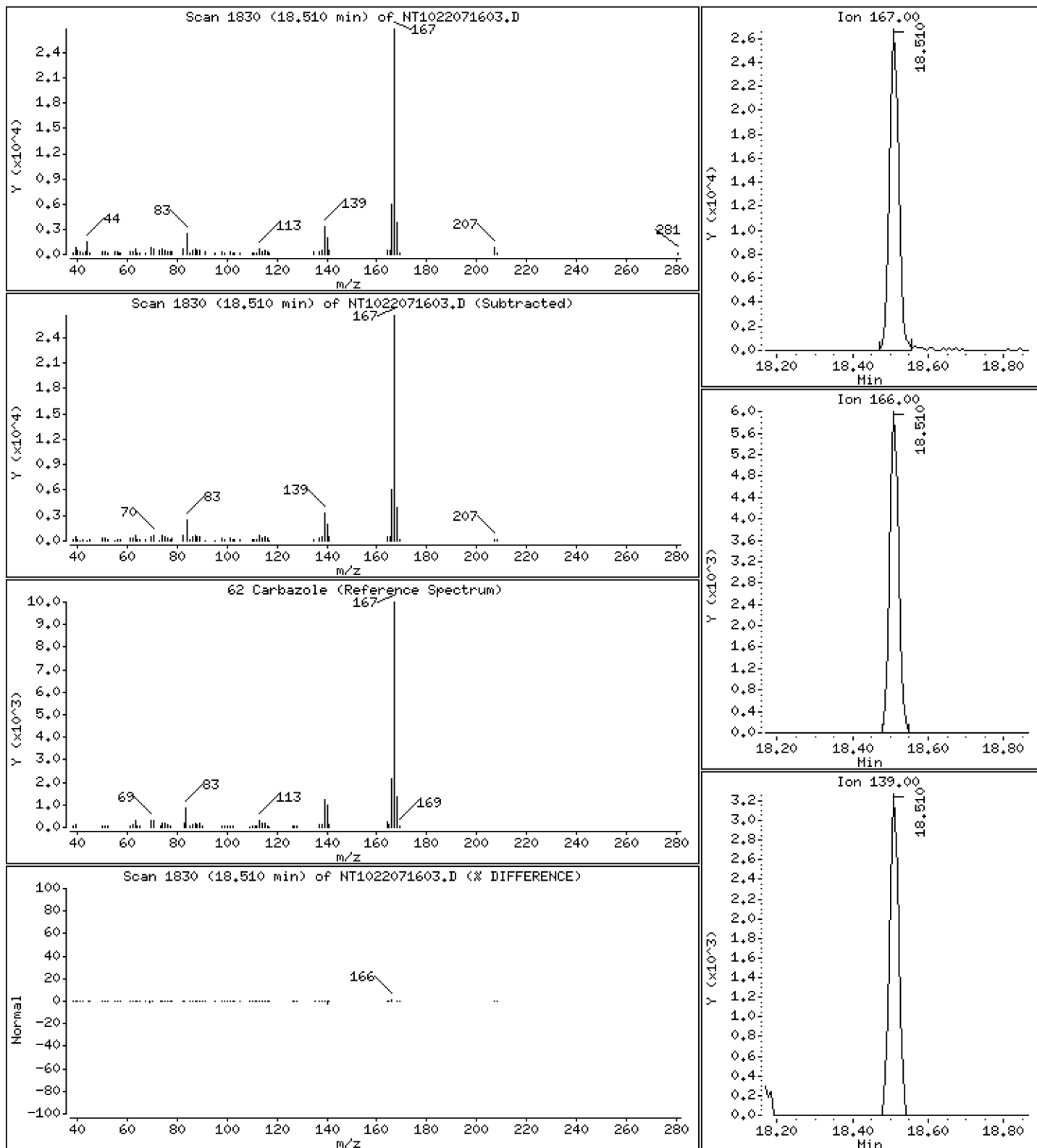
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1895 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

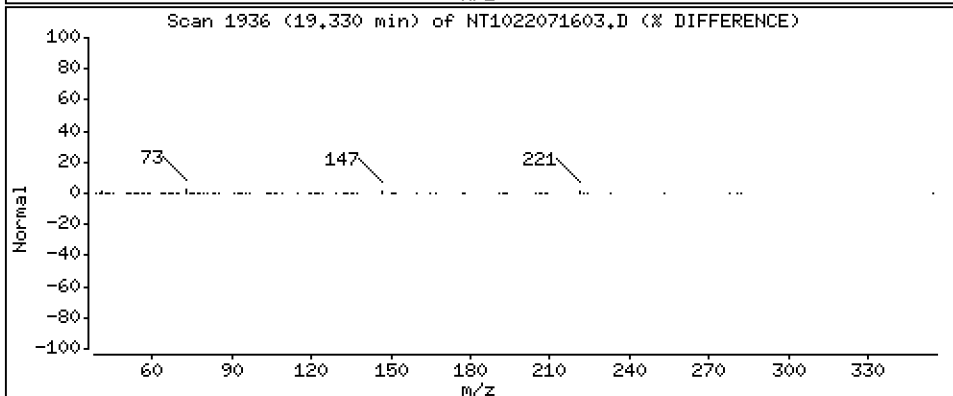
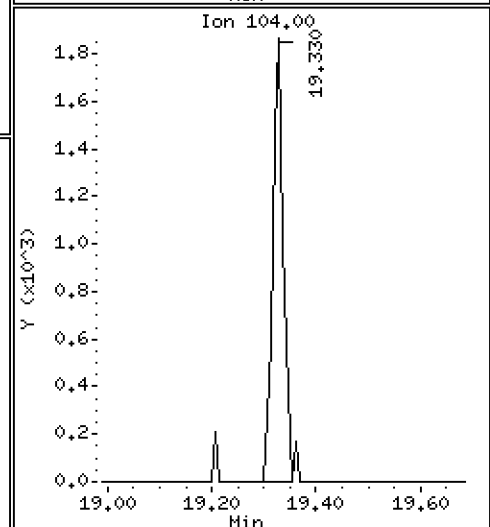
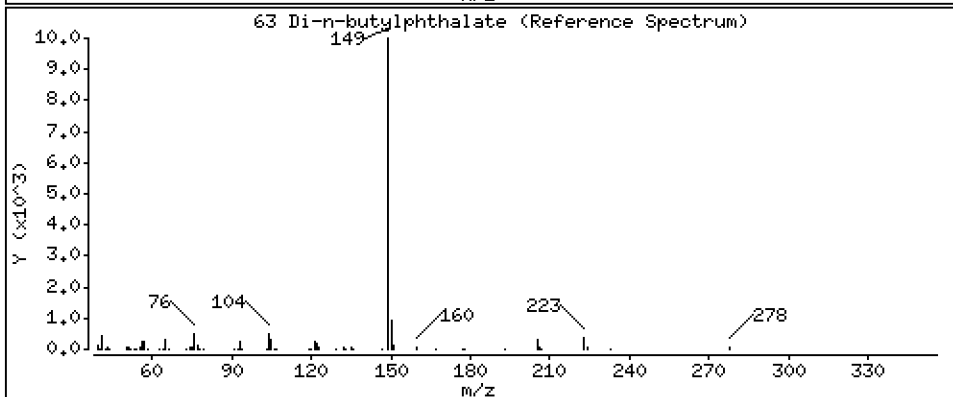
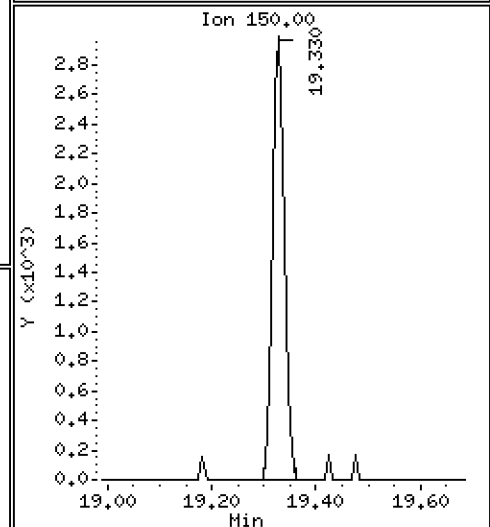
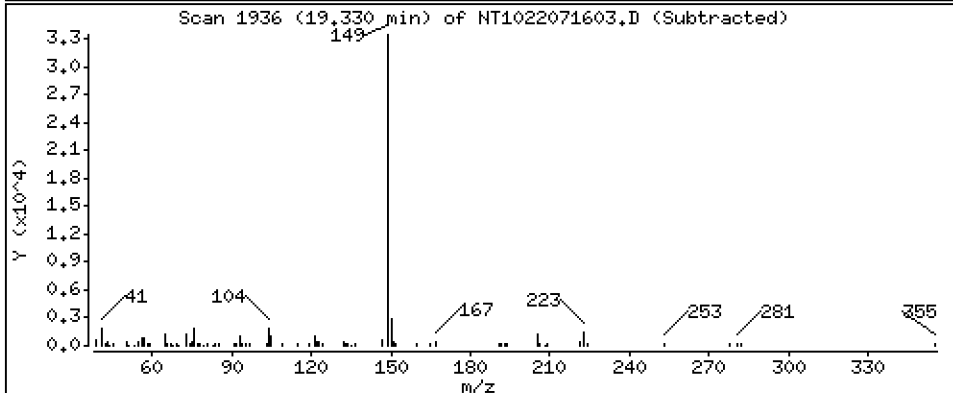
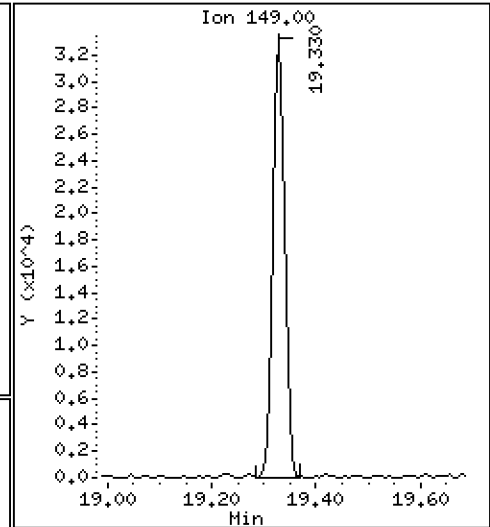
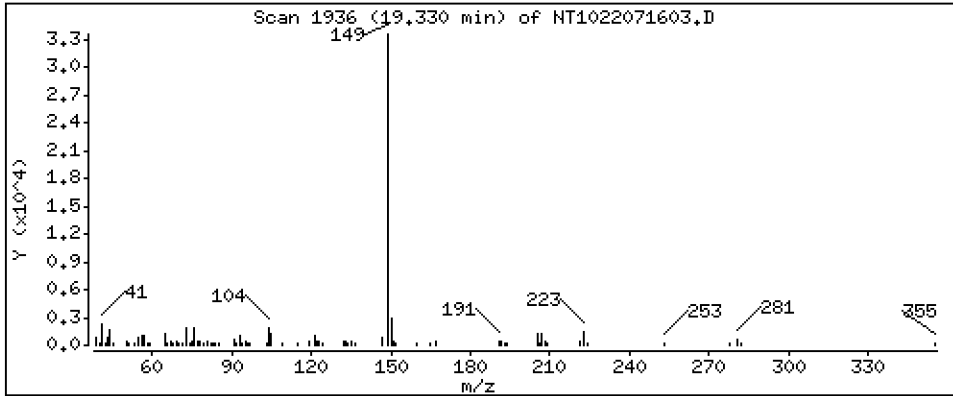
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1535 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

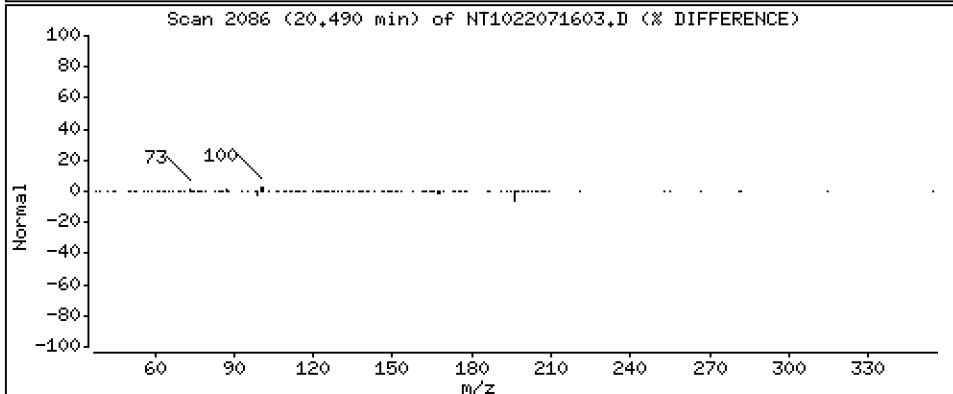
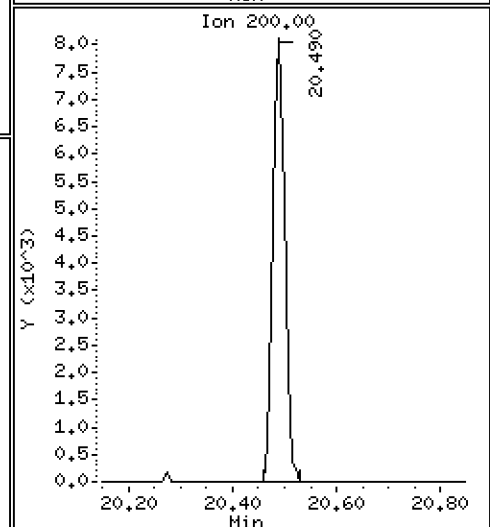
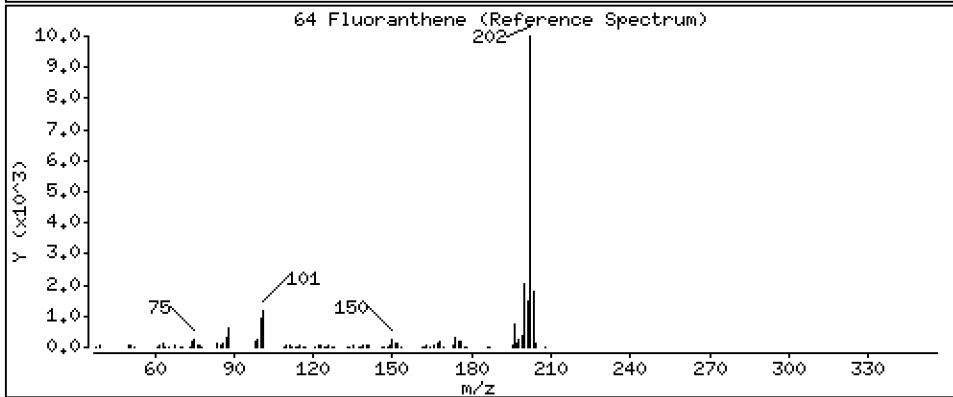
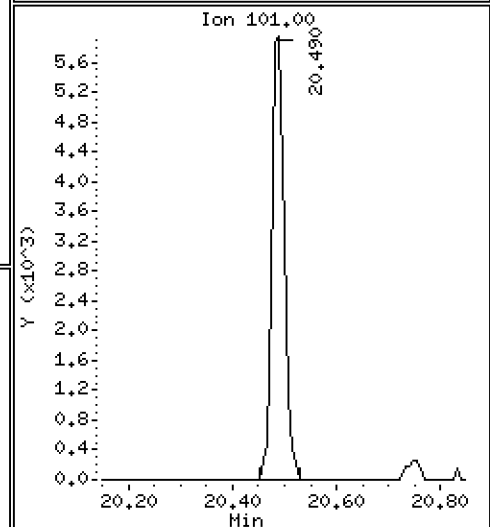
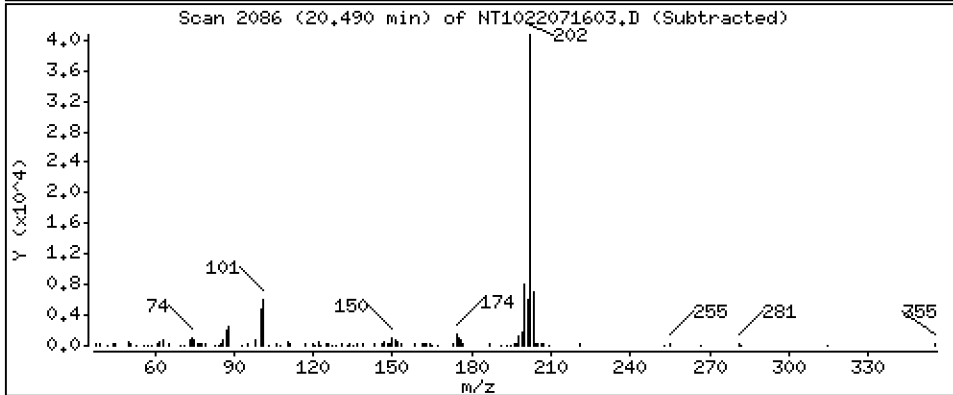
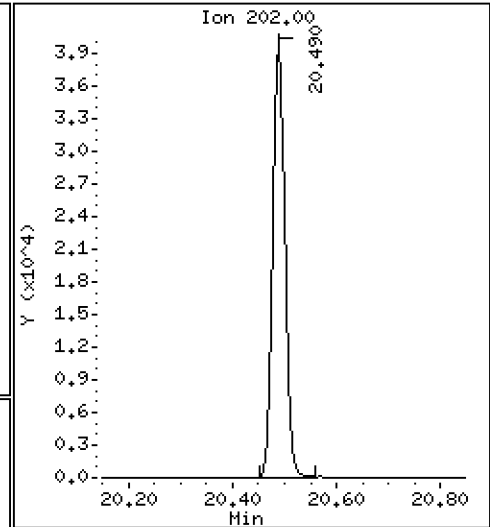
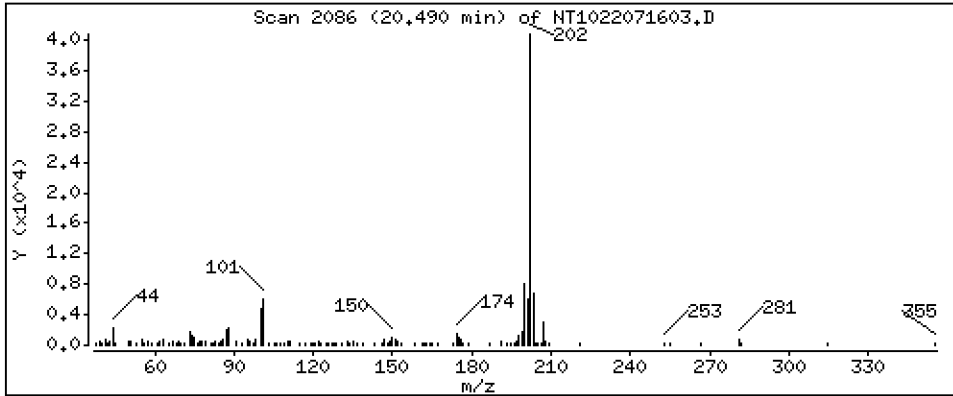
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,1828 ug/mL

64 Fluoranthene



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

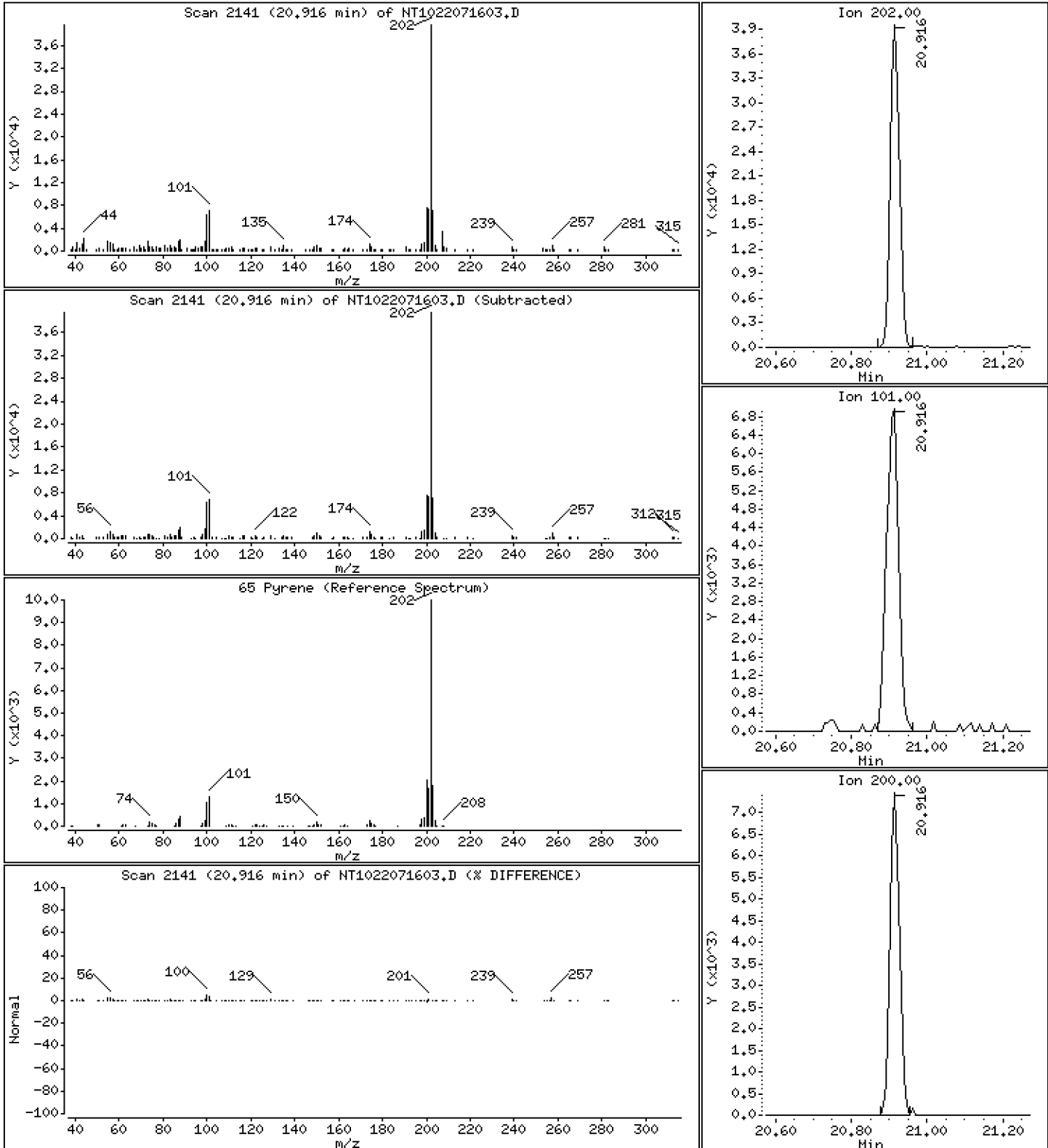
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,2235 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

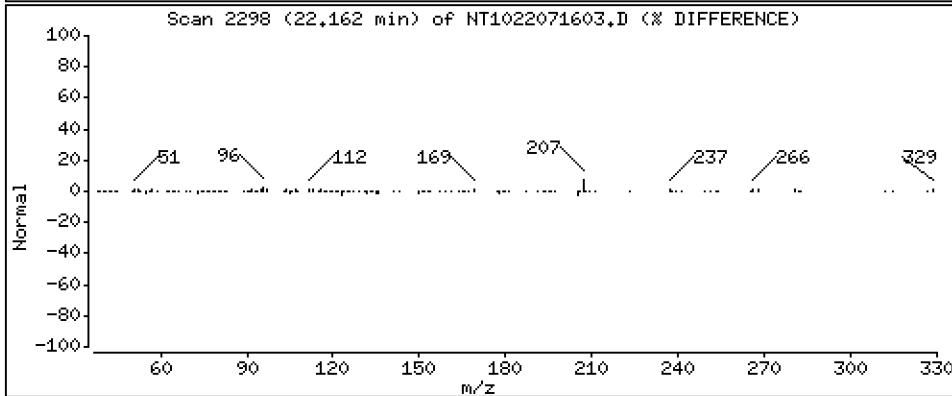
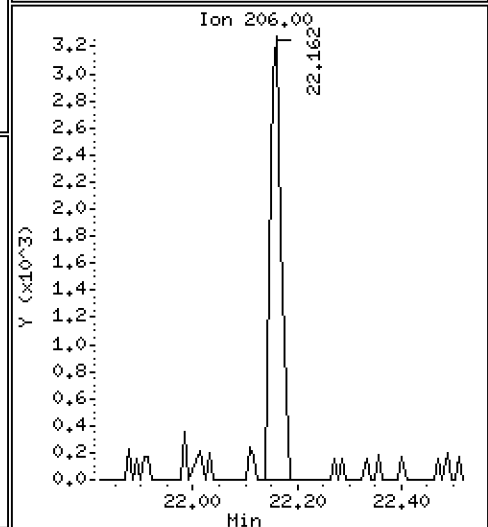
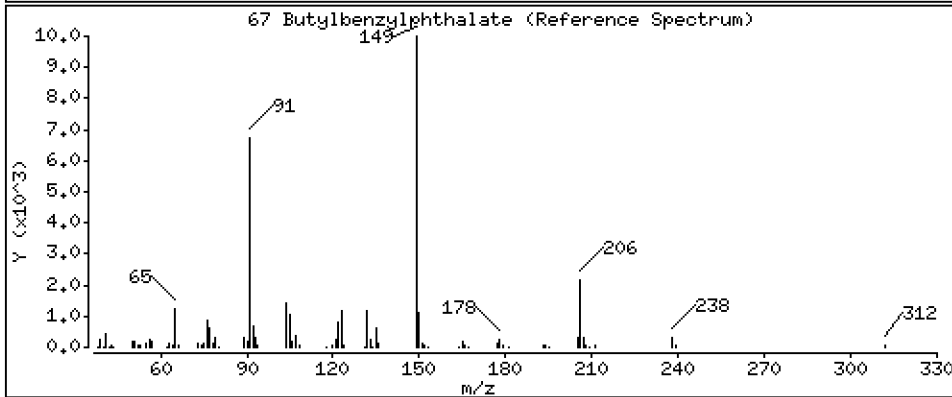
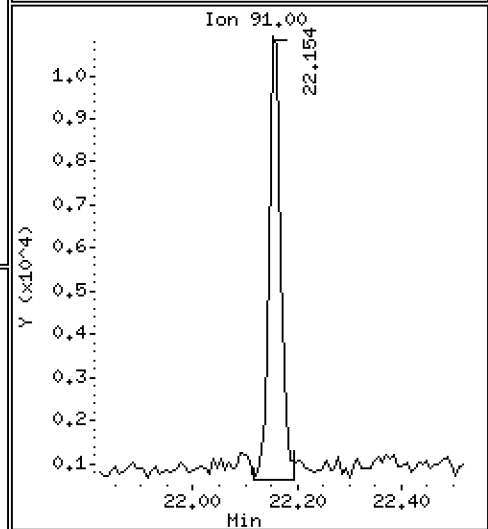
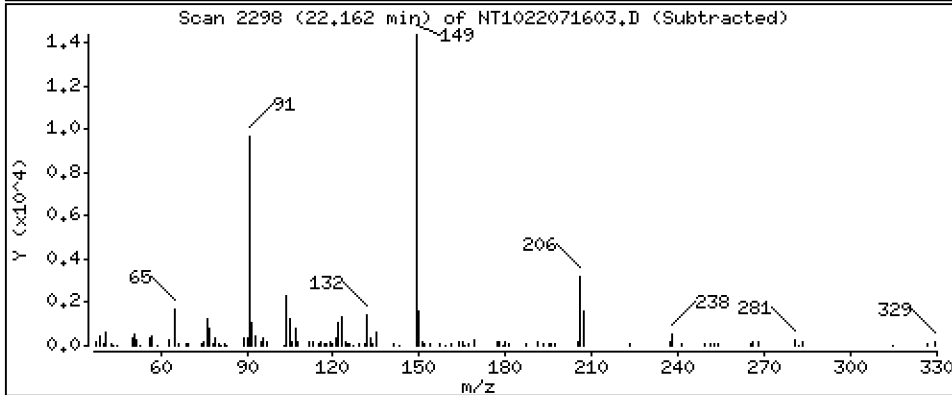
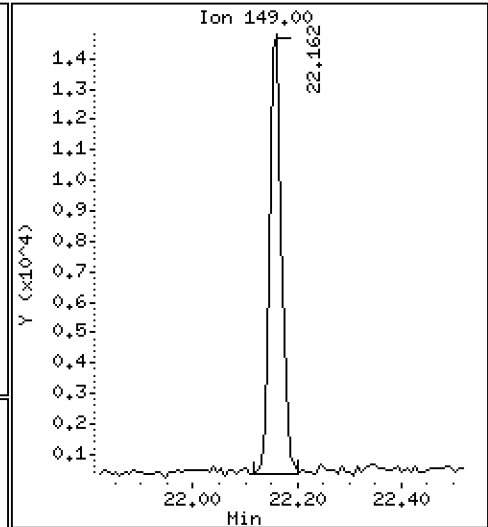
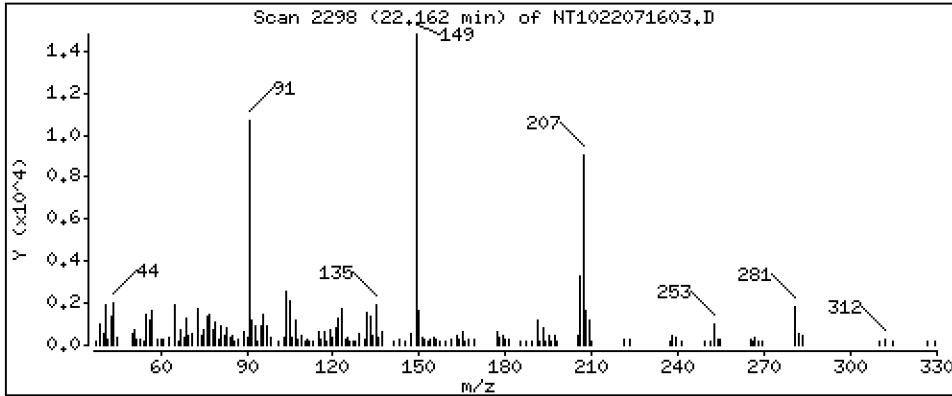
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.2375 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

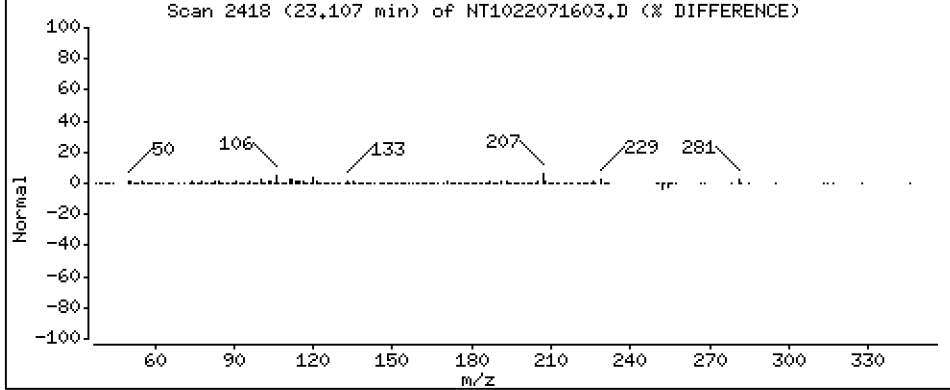
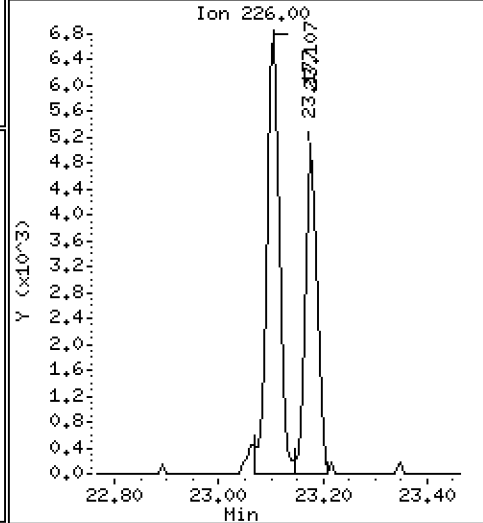
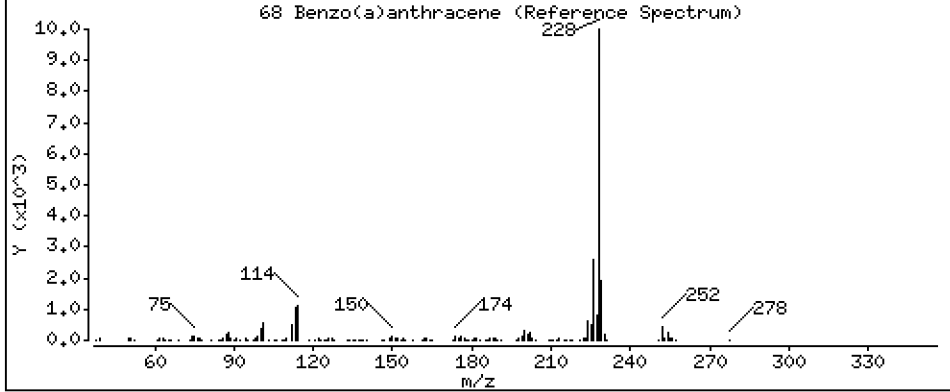
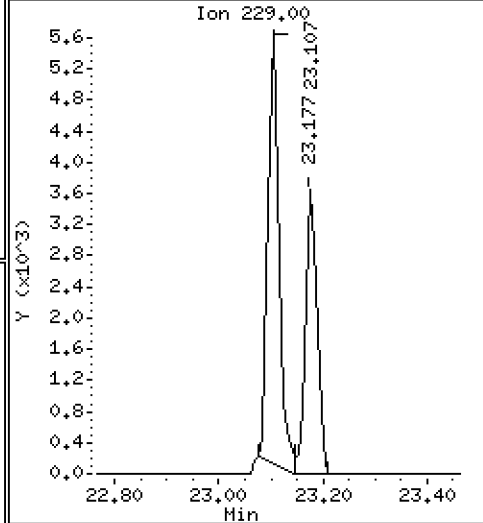
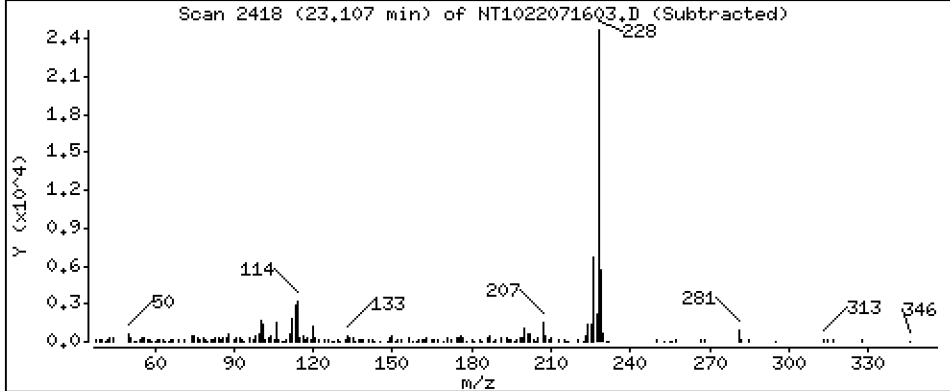
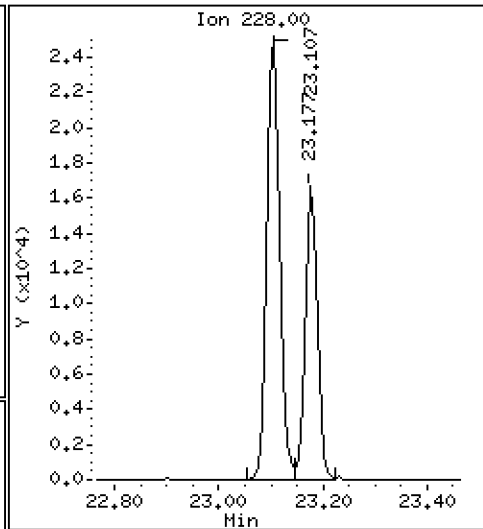
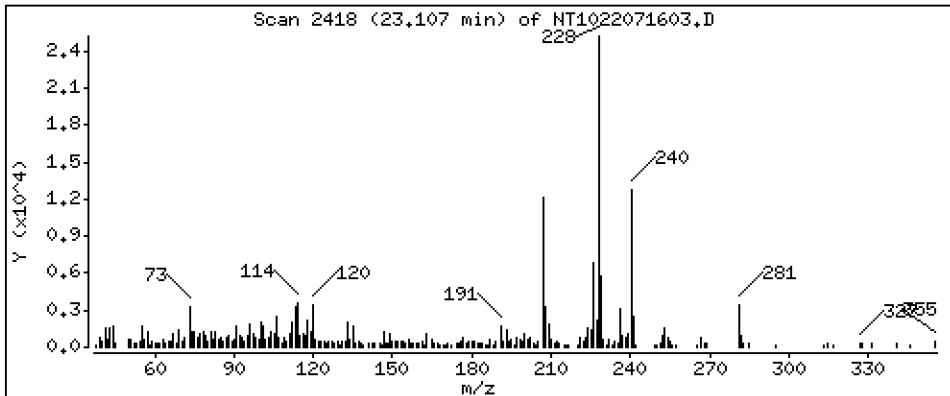
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2042 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

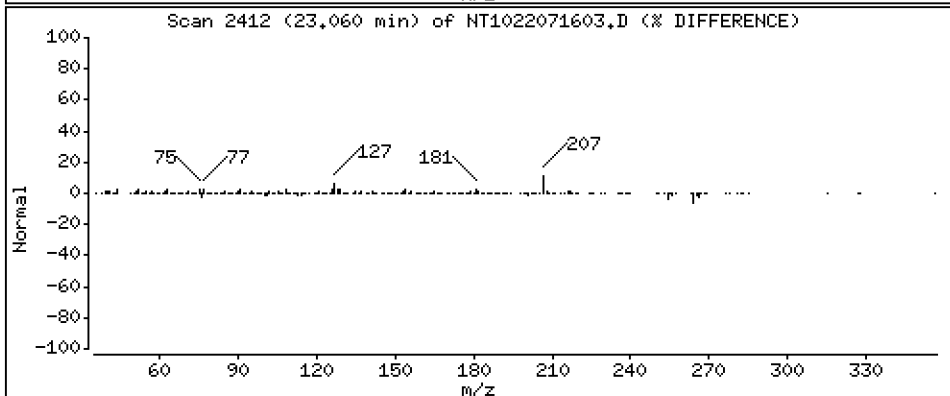
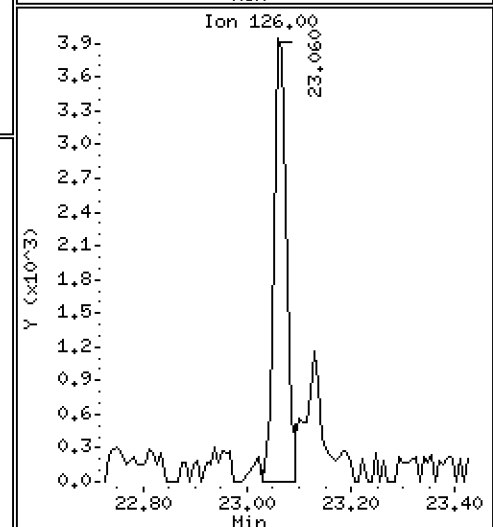
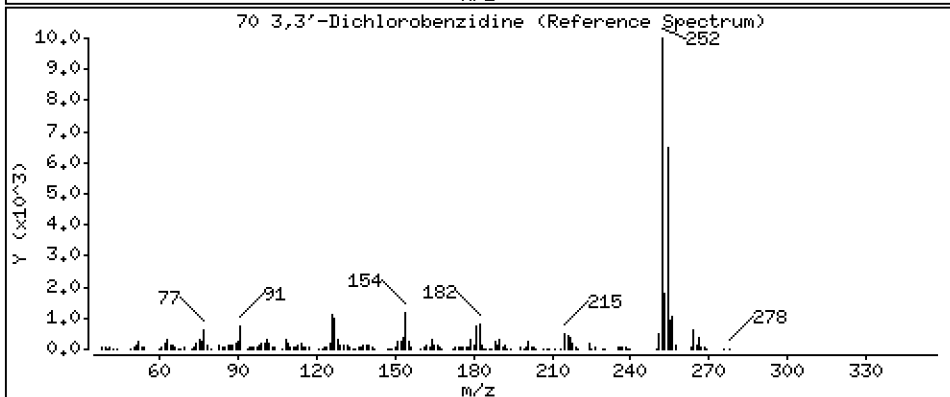
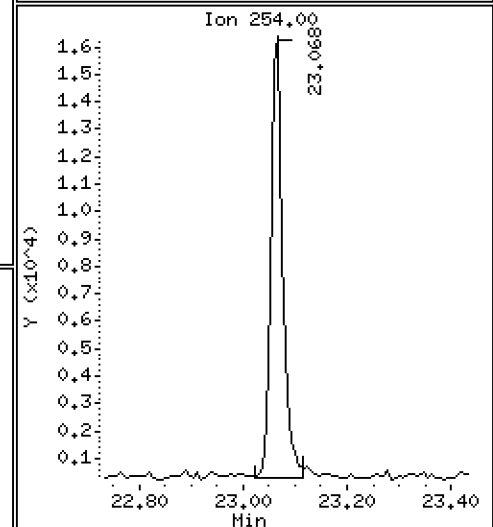
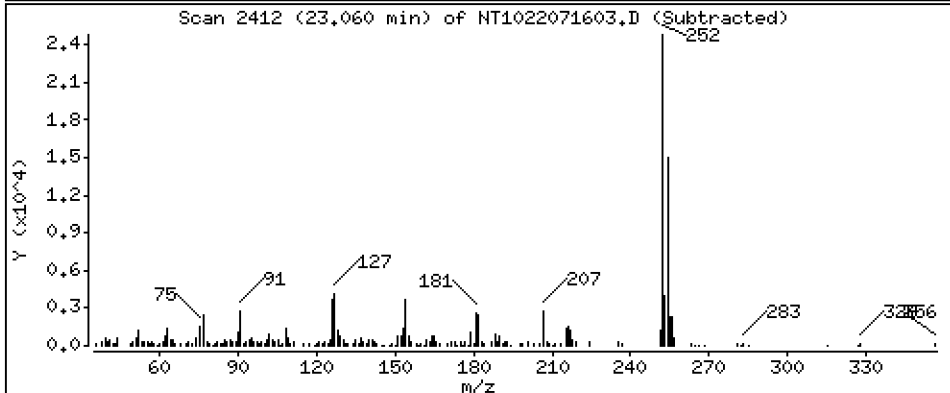
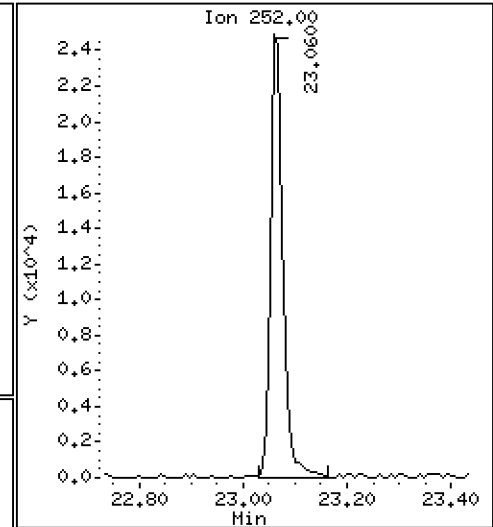
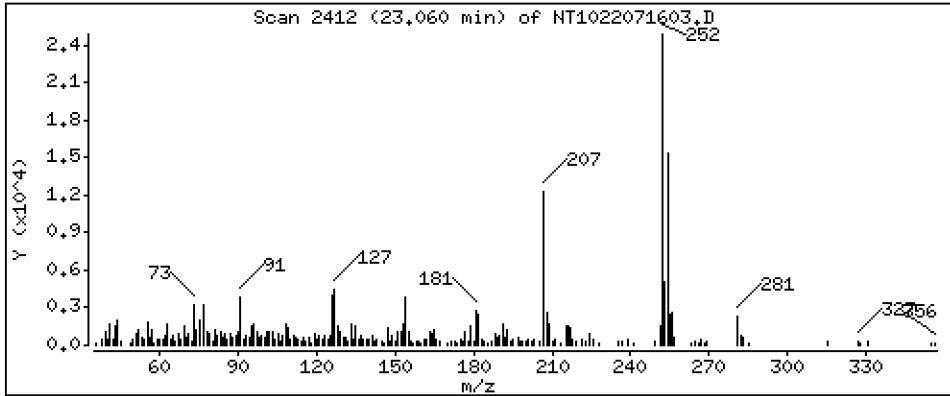
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,6220 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

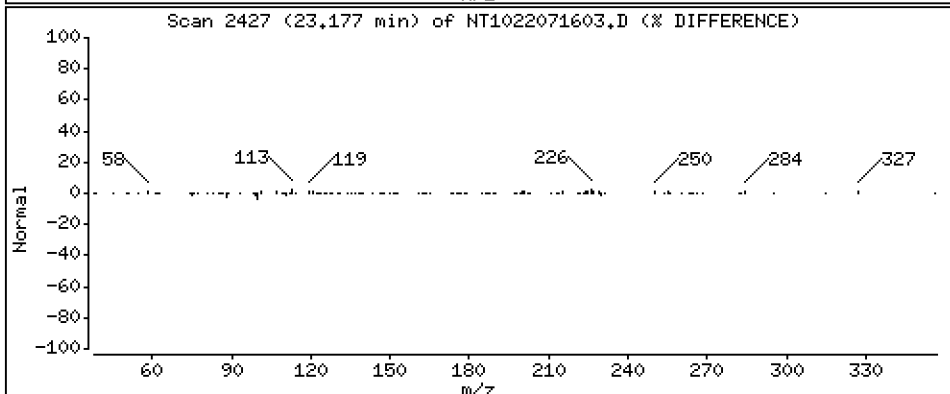
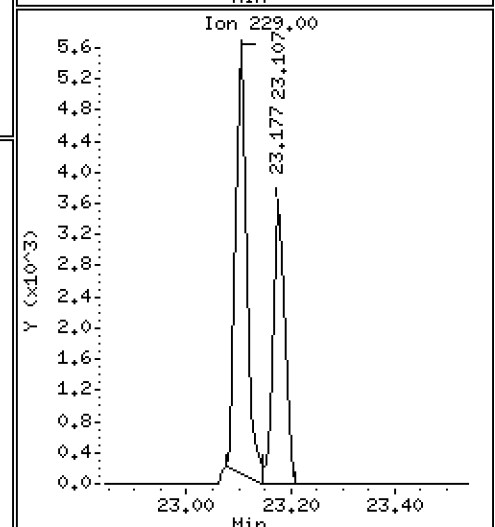
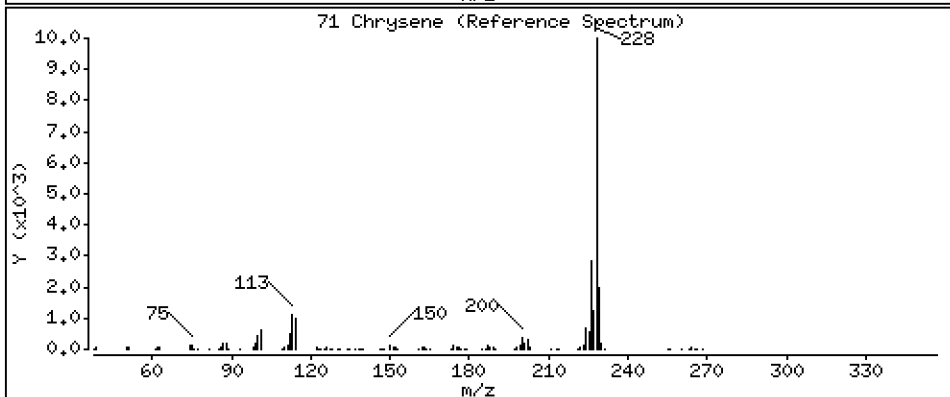
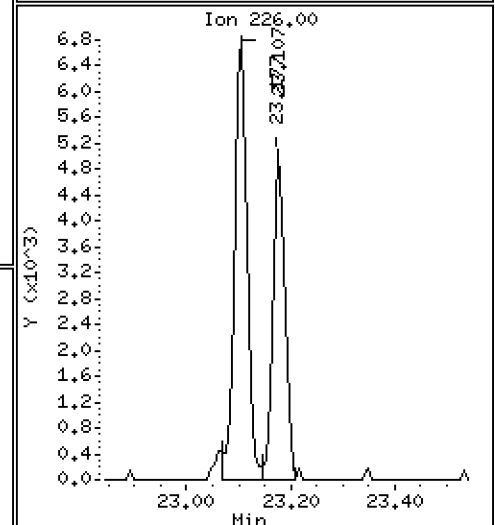
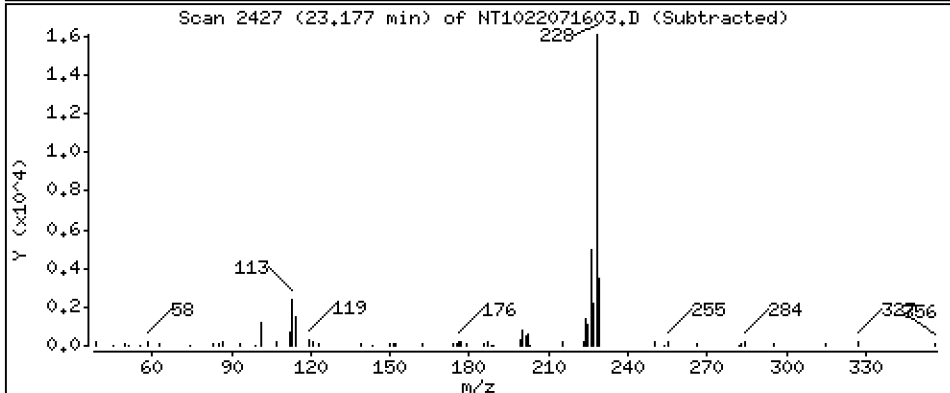
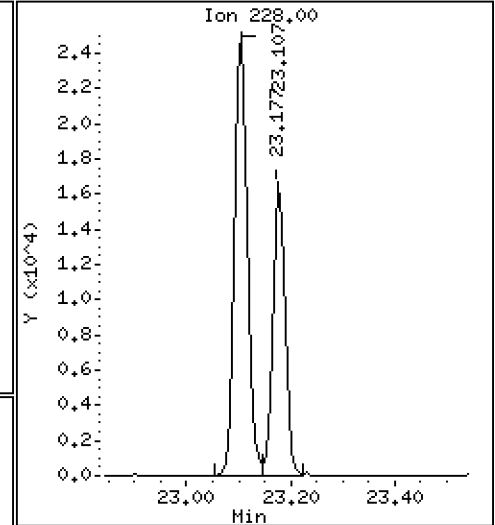
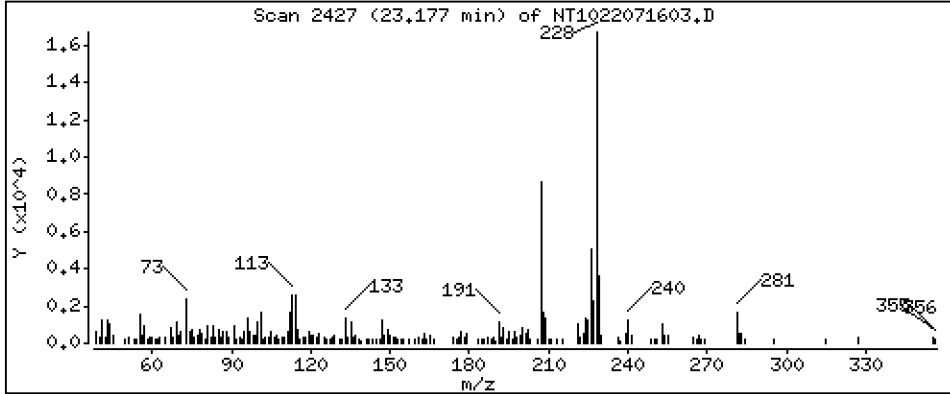
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,1957 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

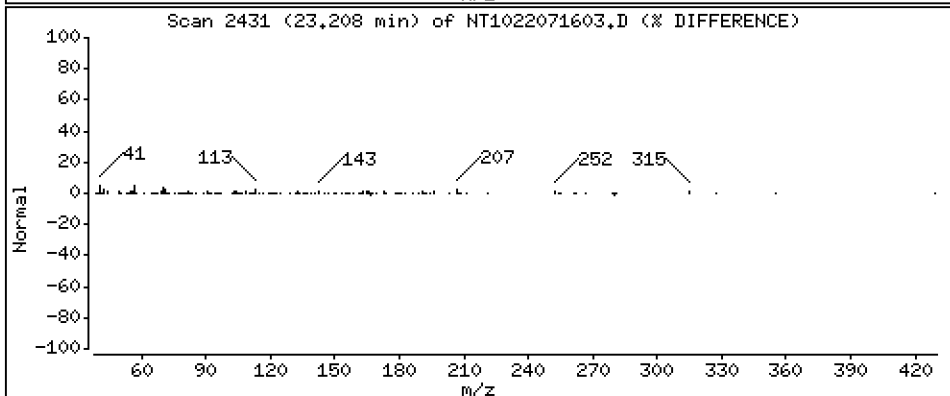
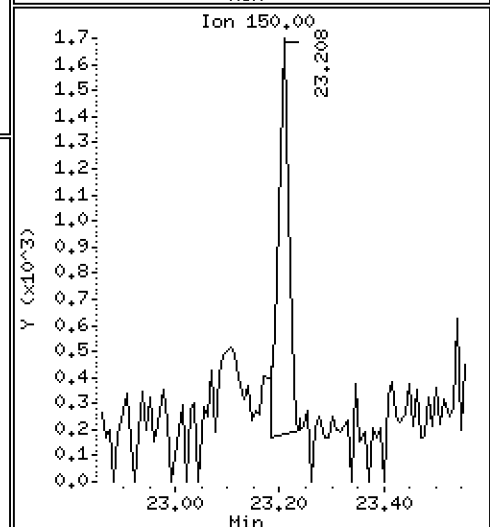
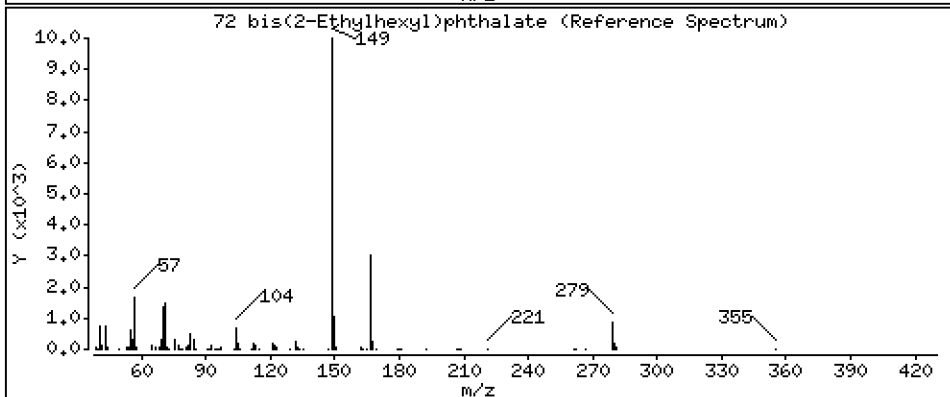
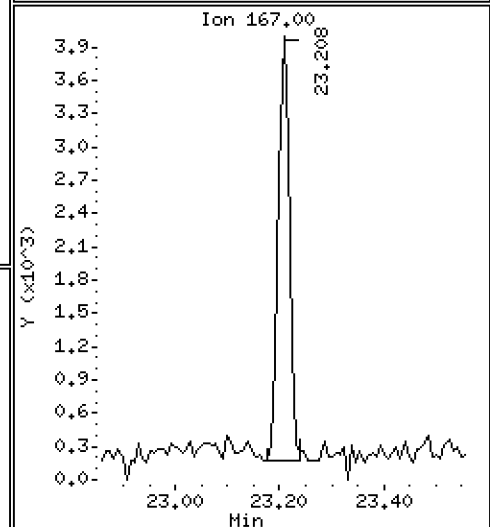
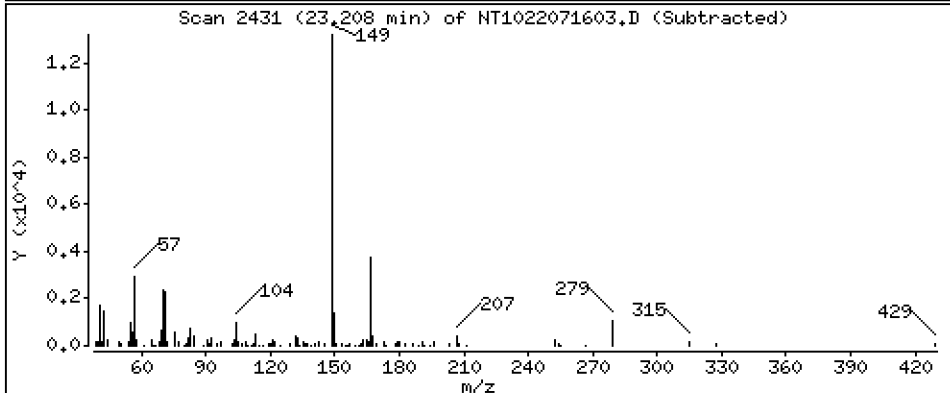
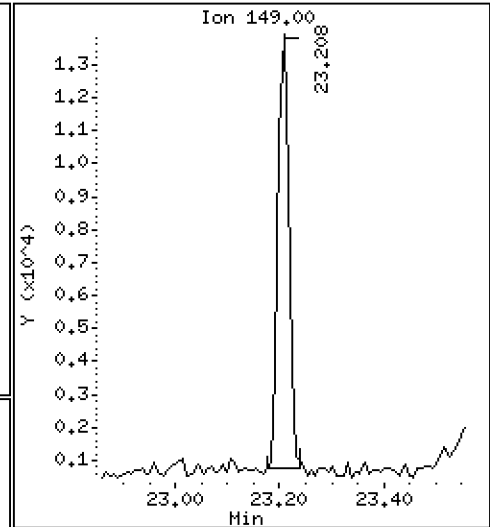
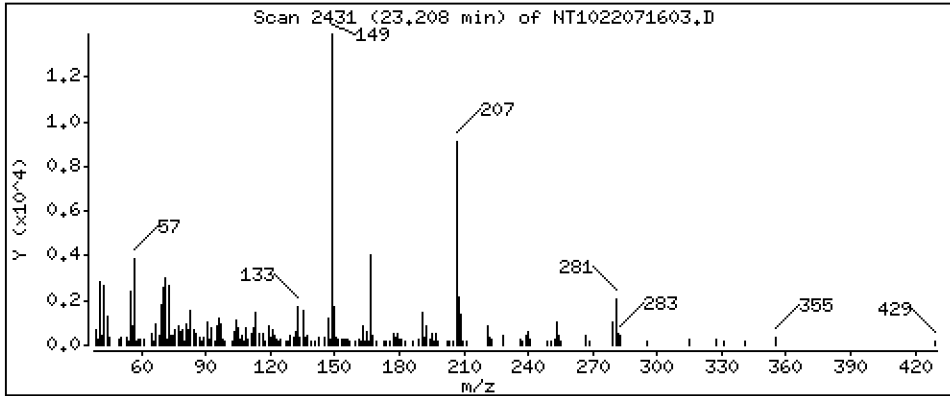
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4578 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

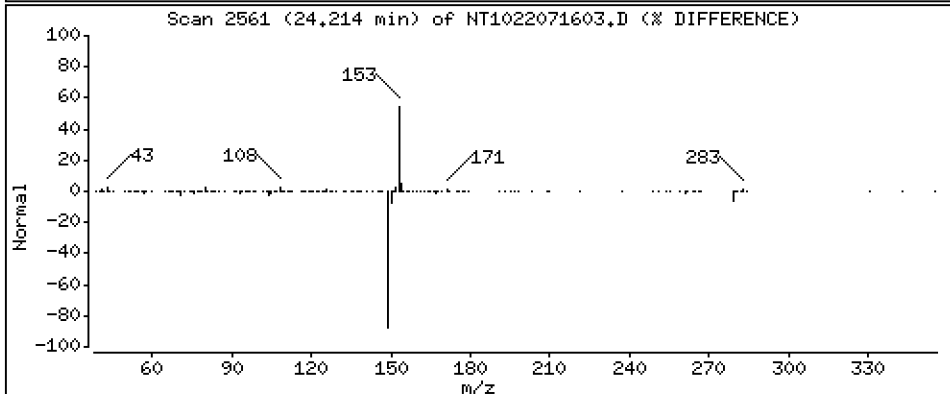
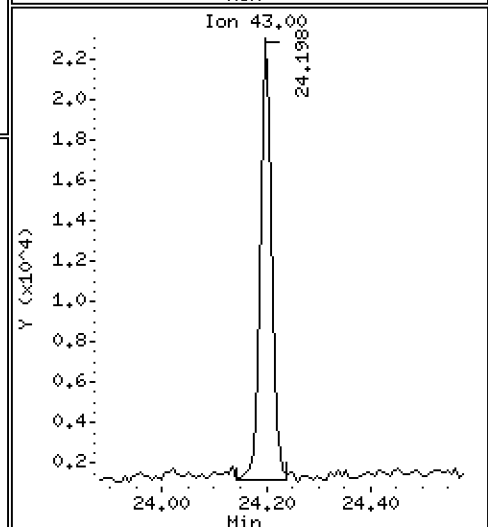
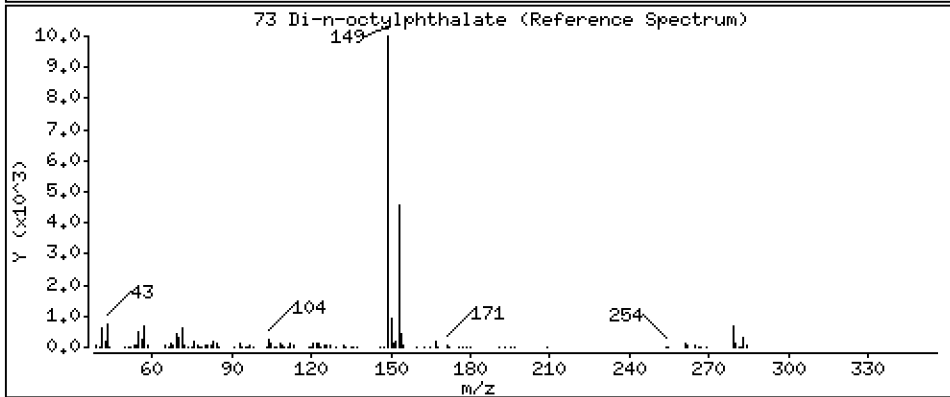
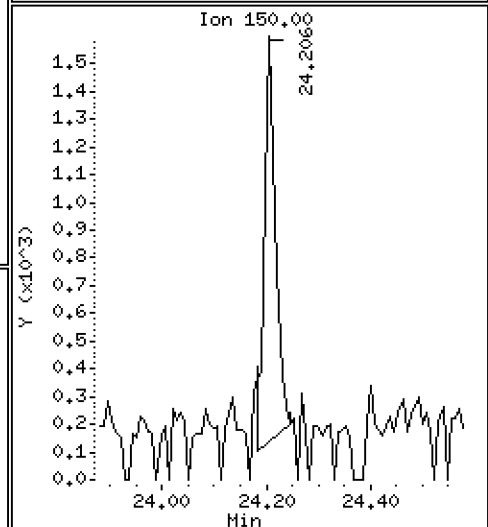
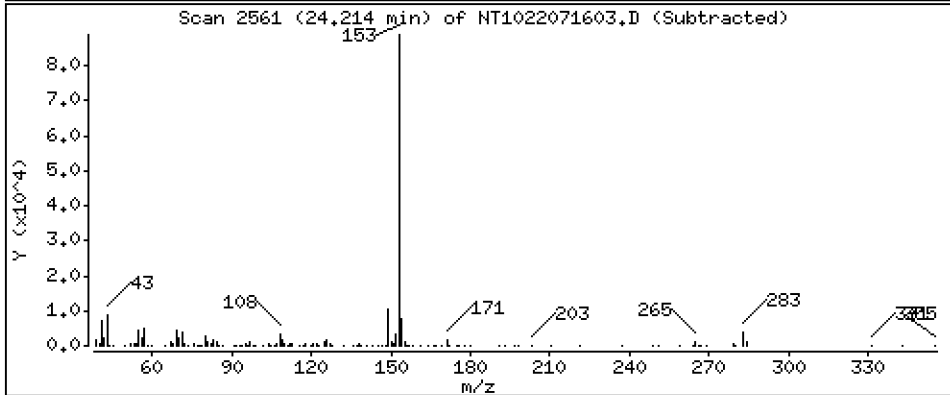
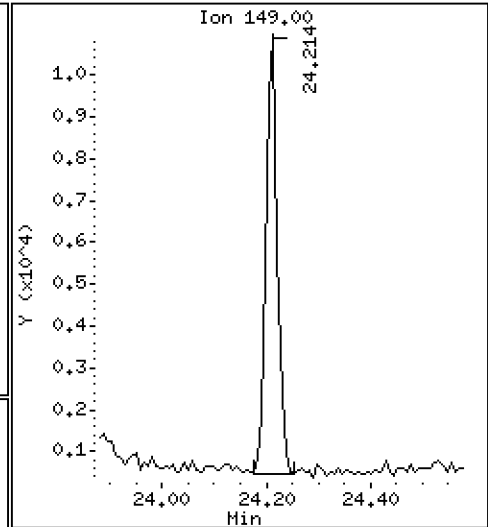
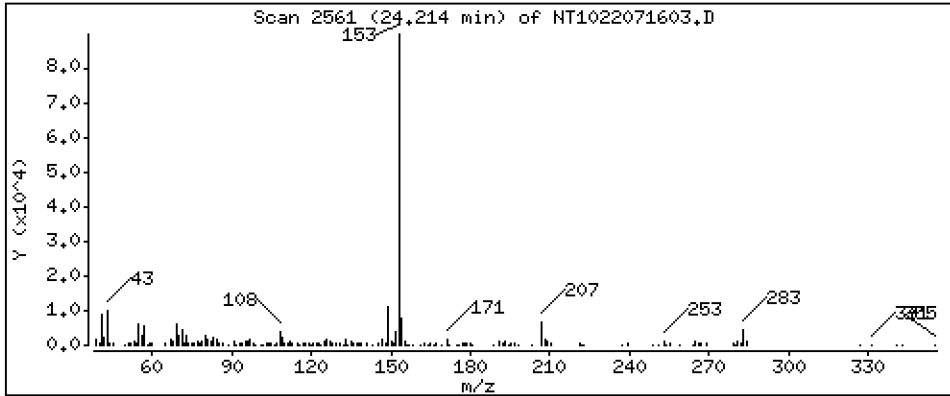
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,1938 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

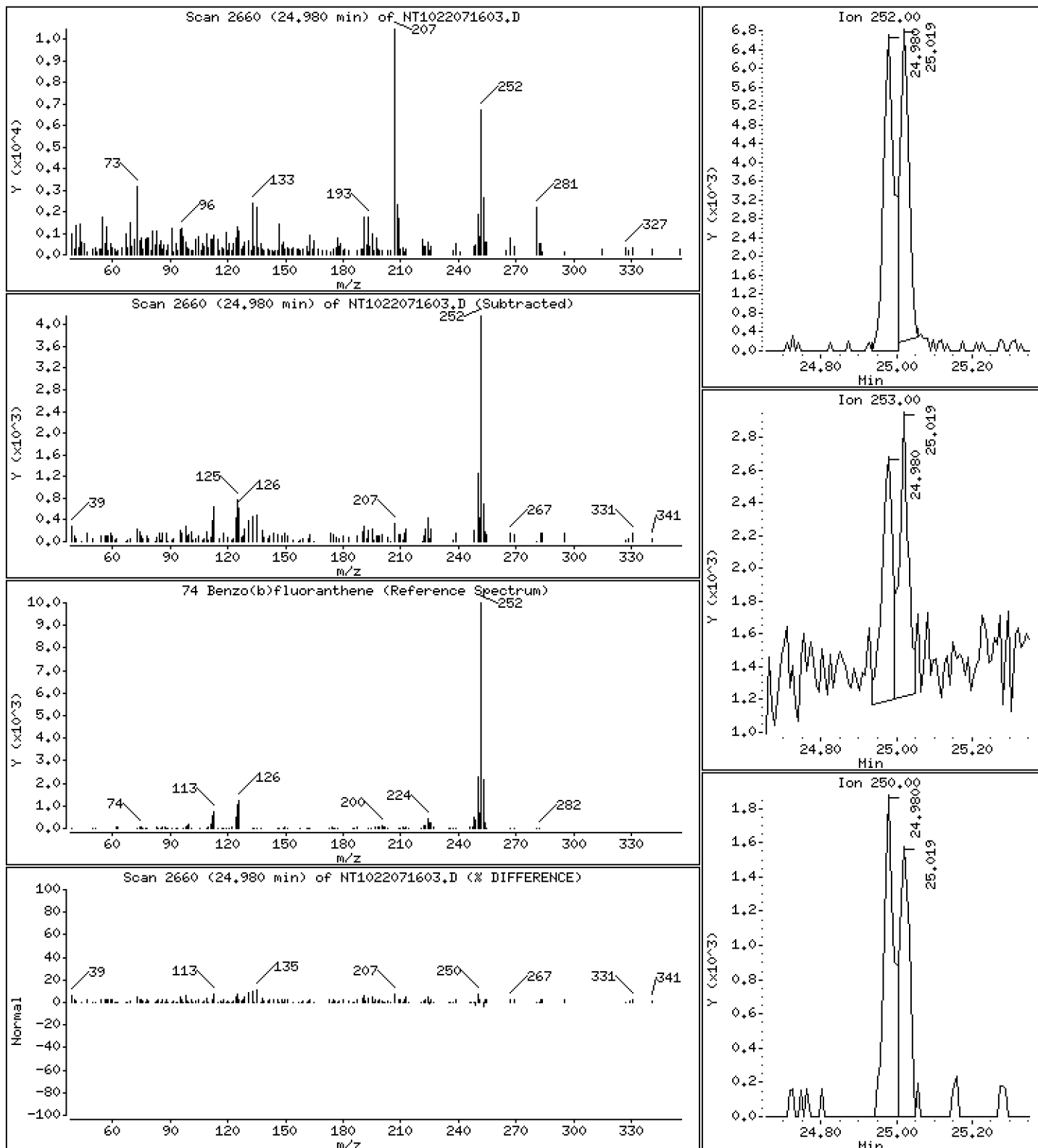
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,1814 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

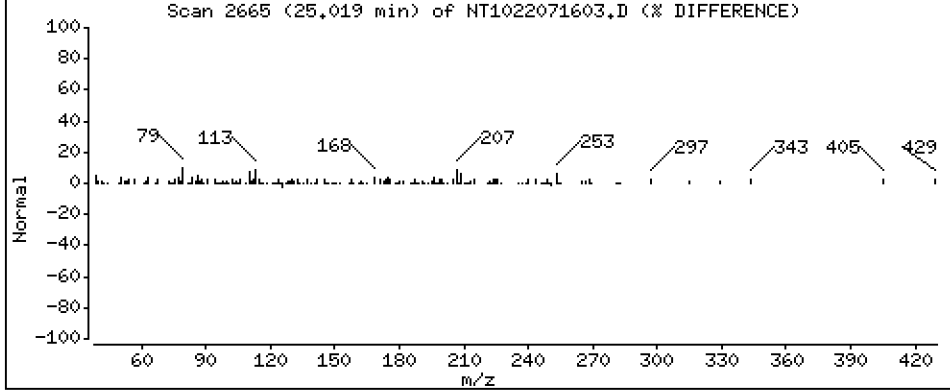
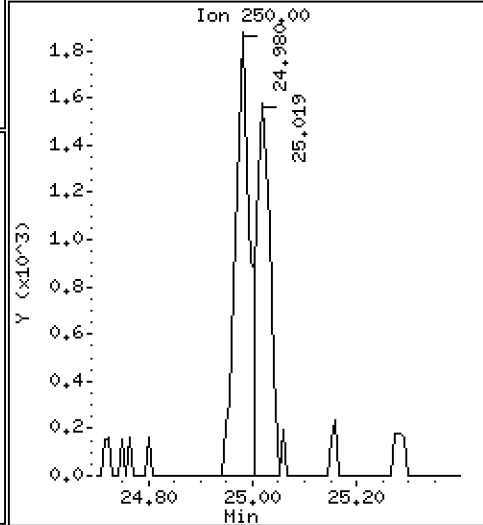
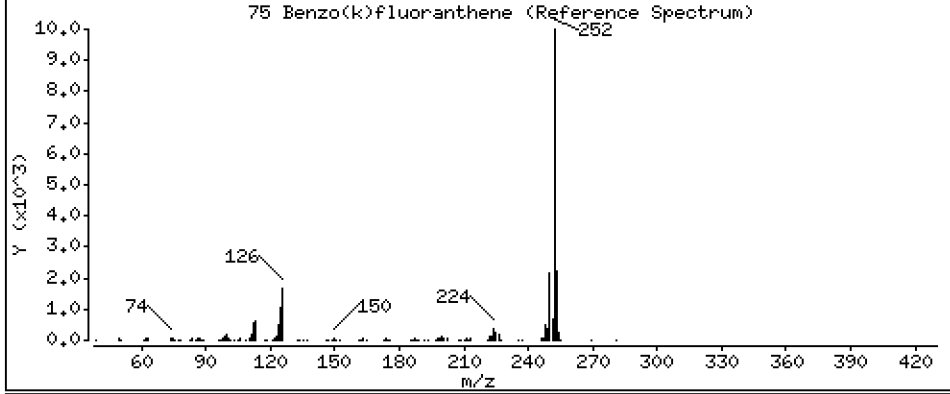
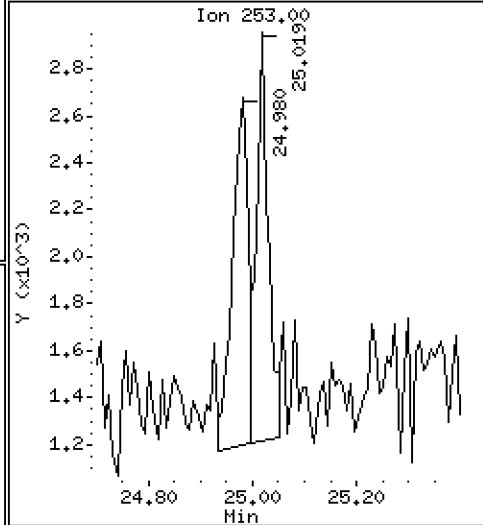
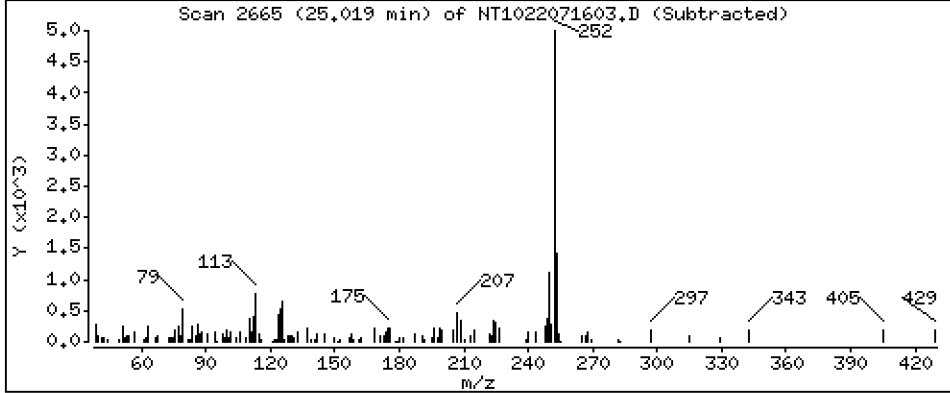
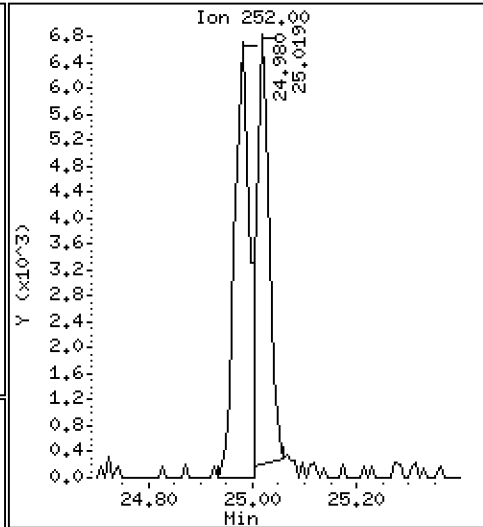
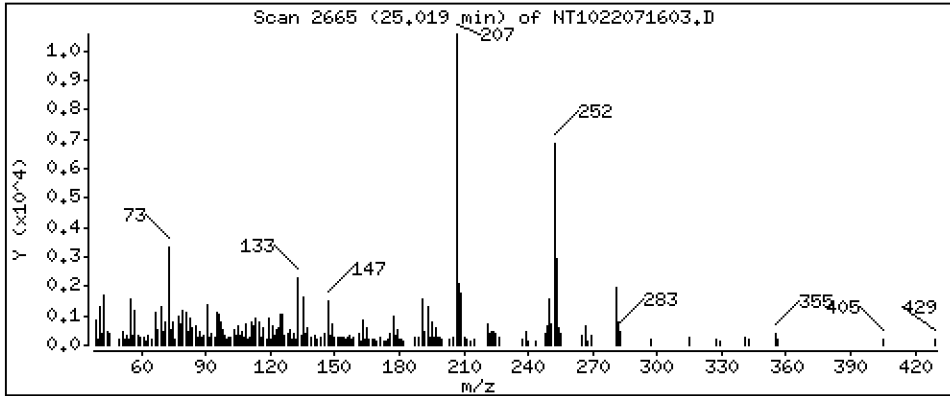
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,1605 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

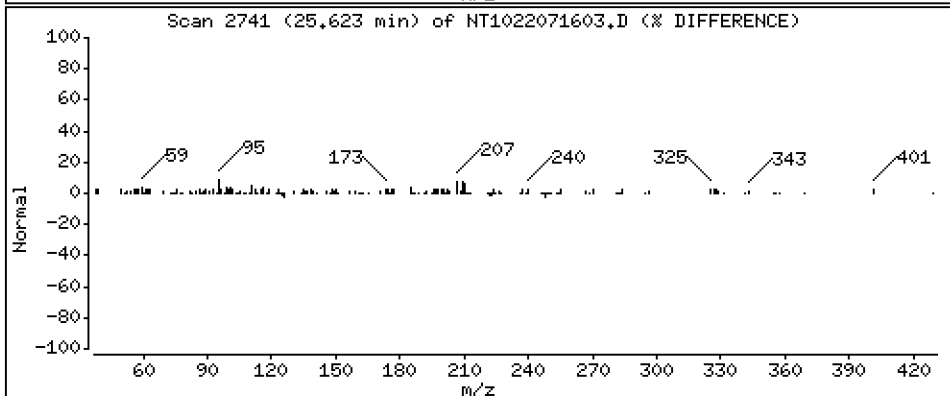
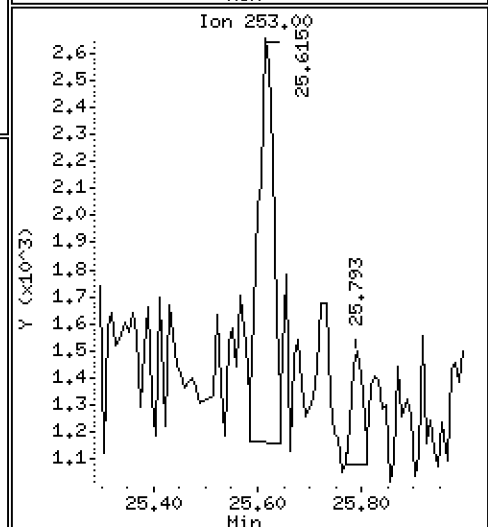
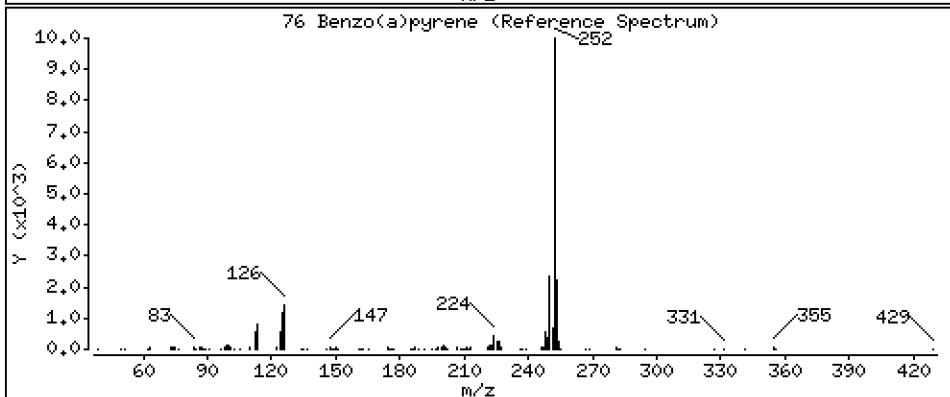
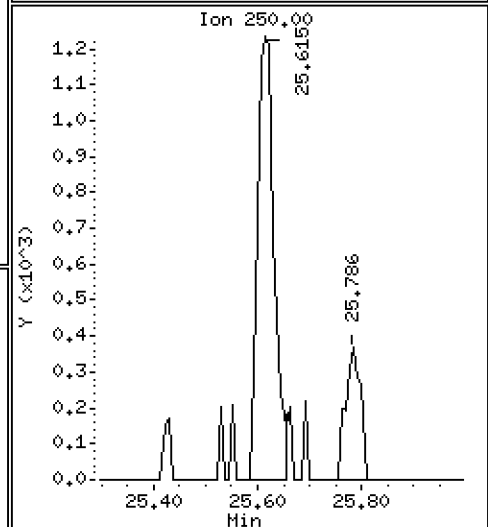
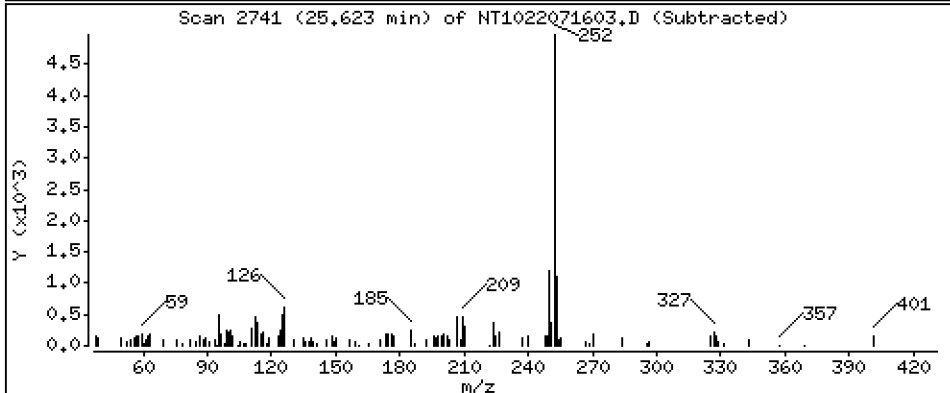
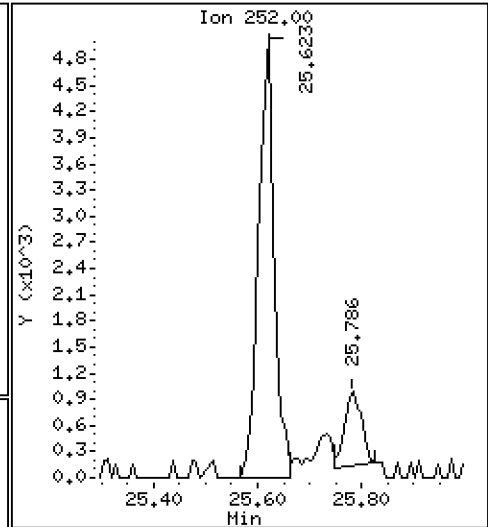
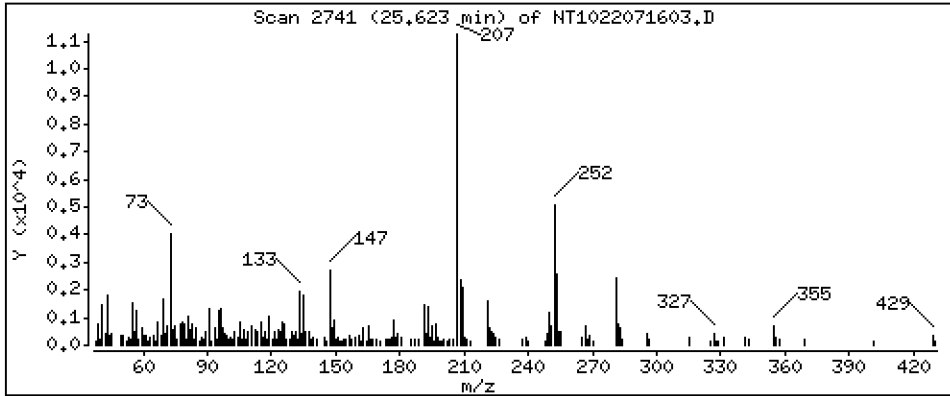
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,1792 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

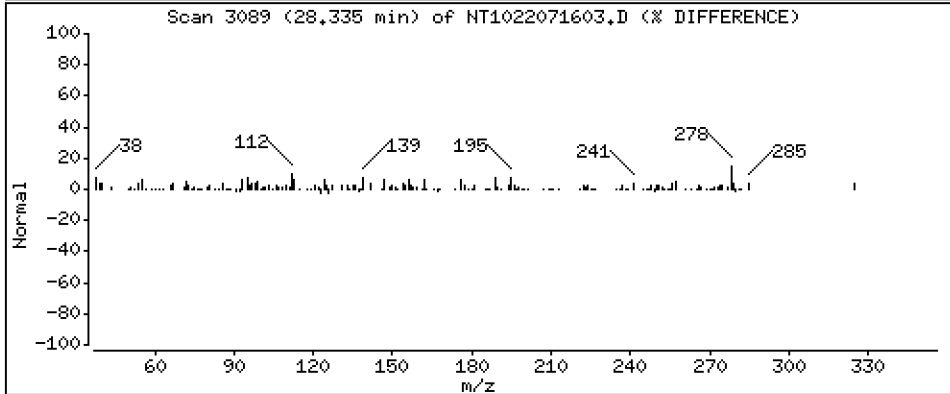
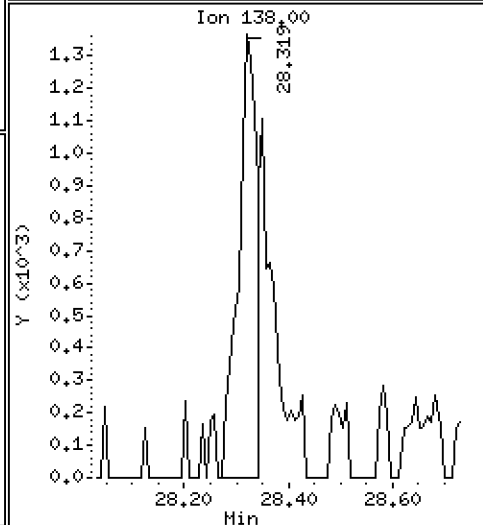
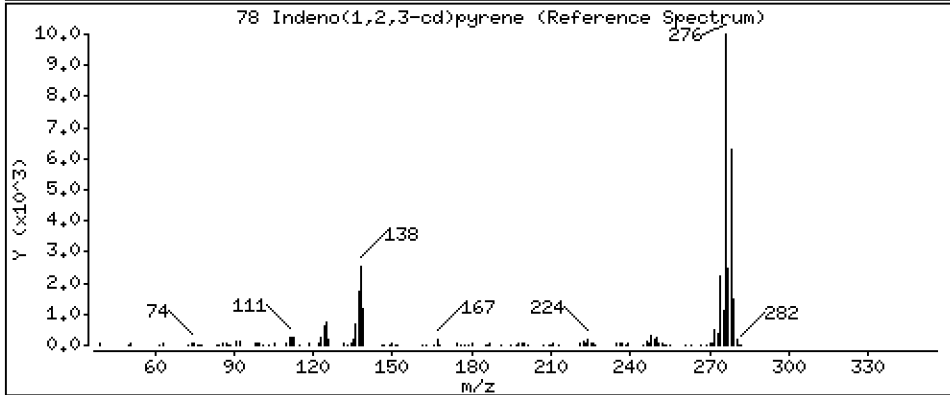
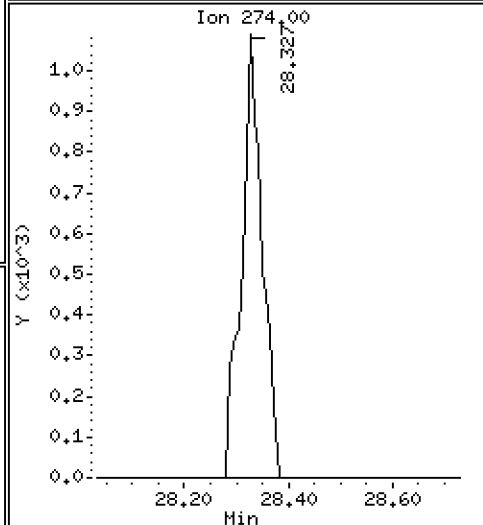
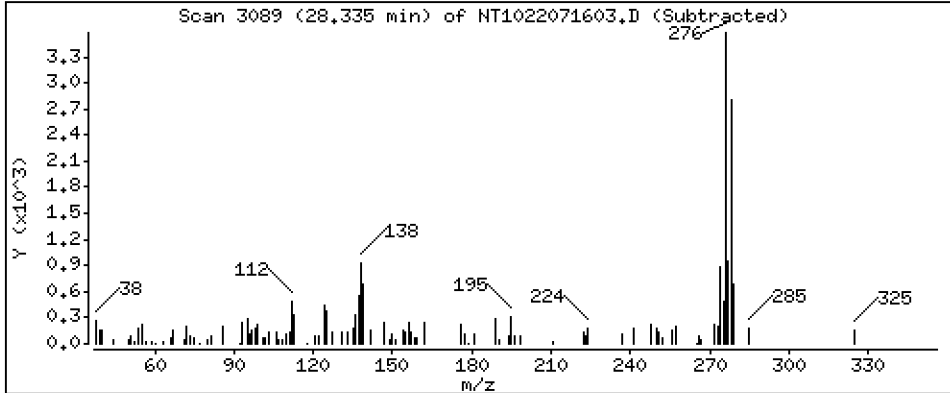
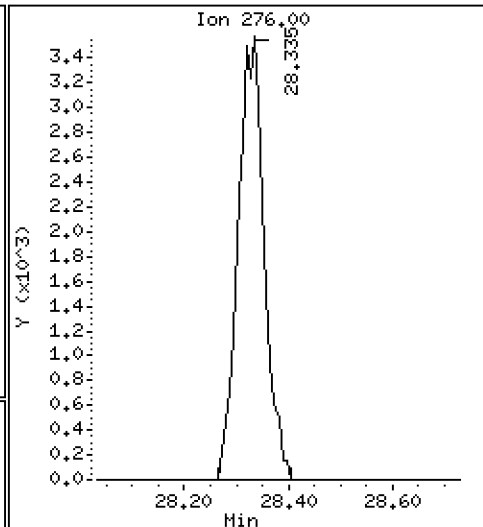
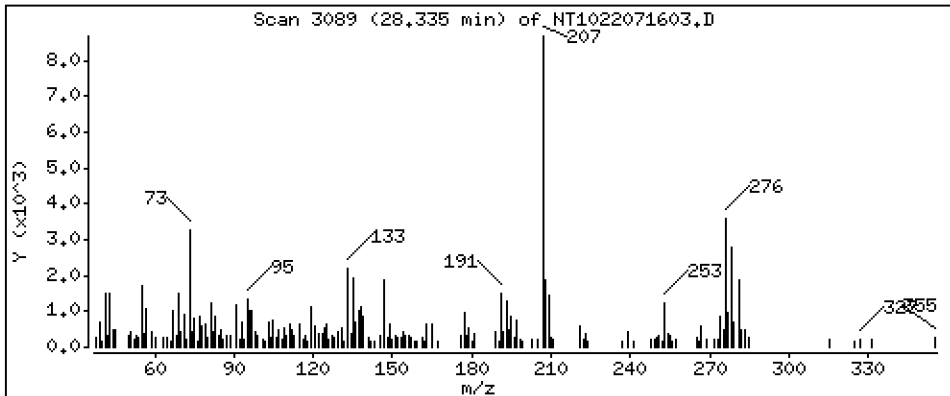
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,1931 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

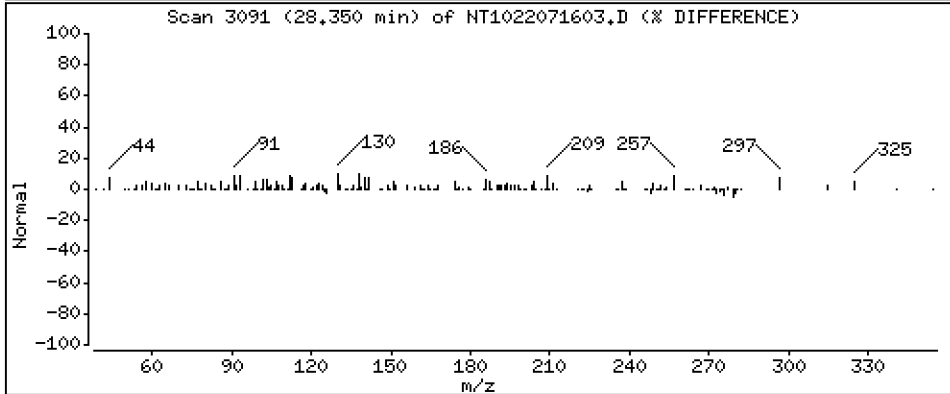
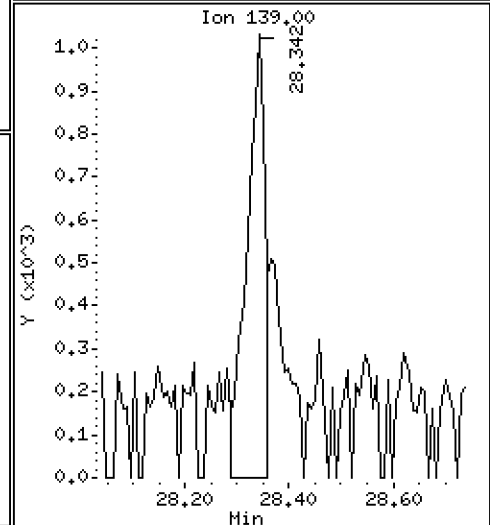
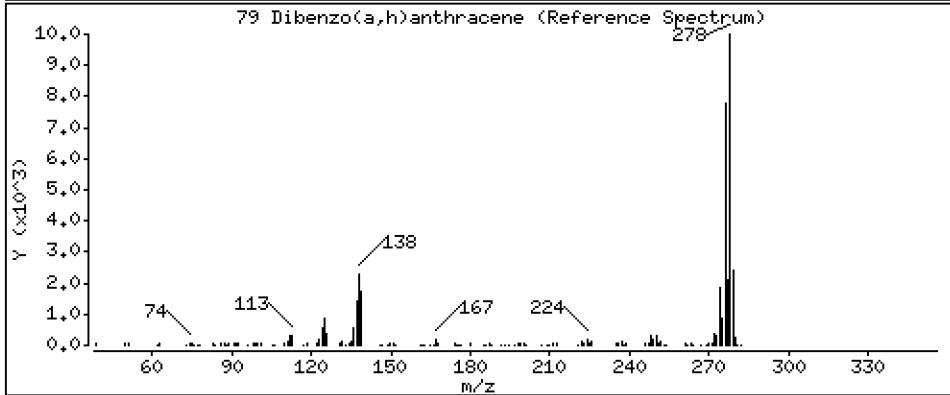
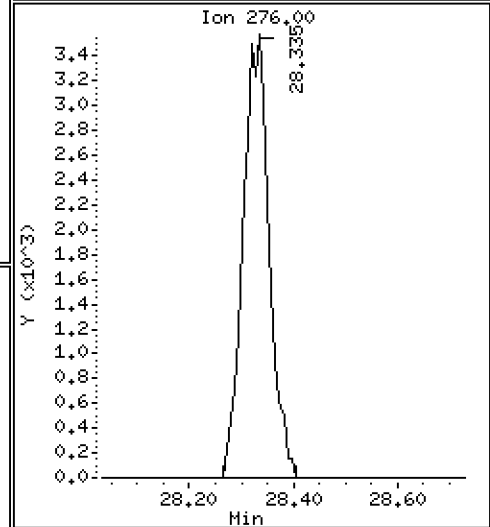
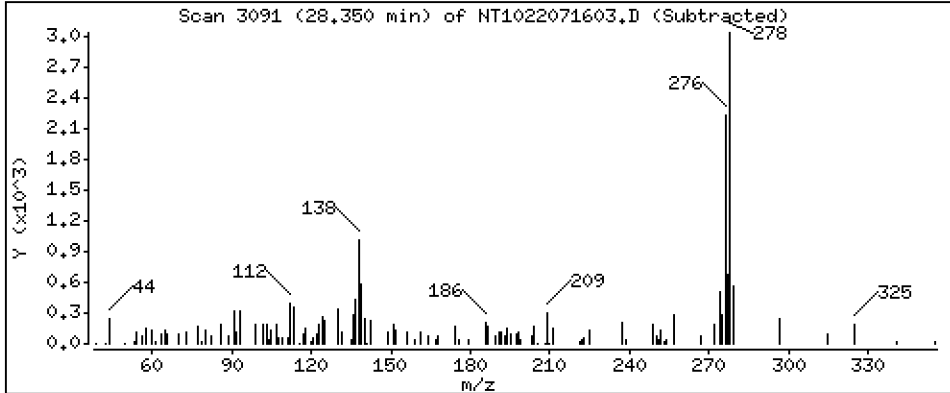
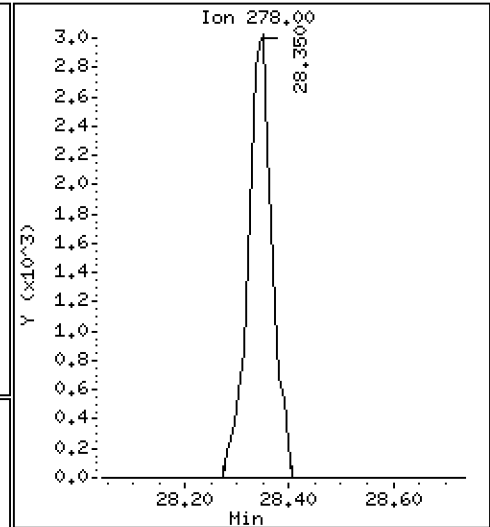
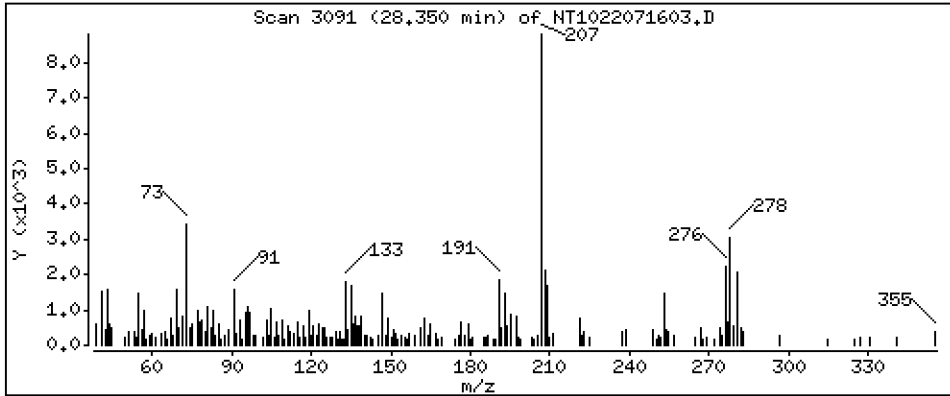
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1984 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

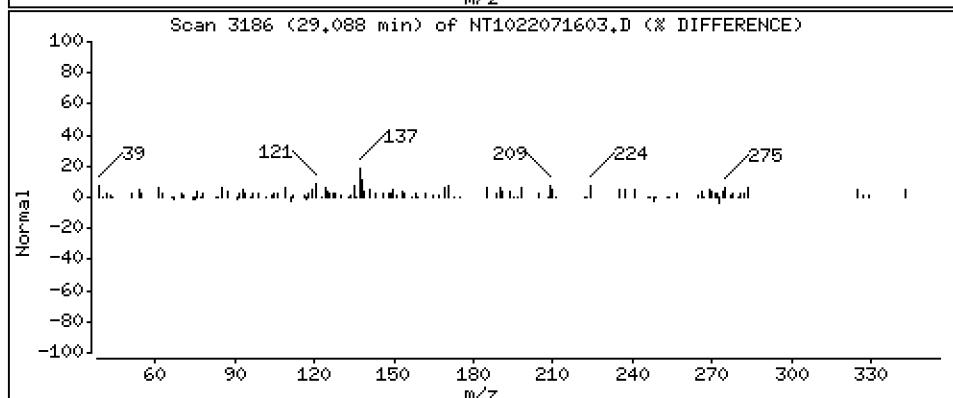
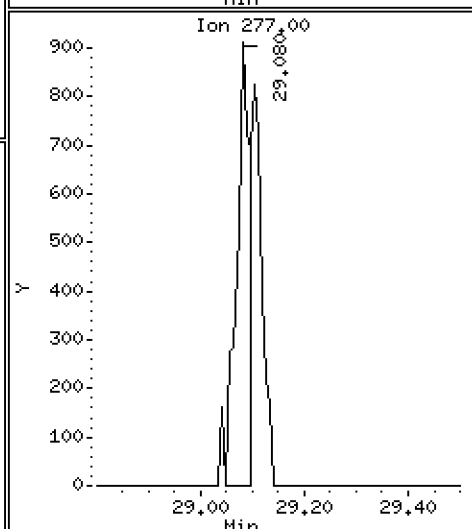
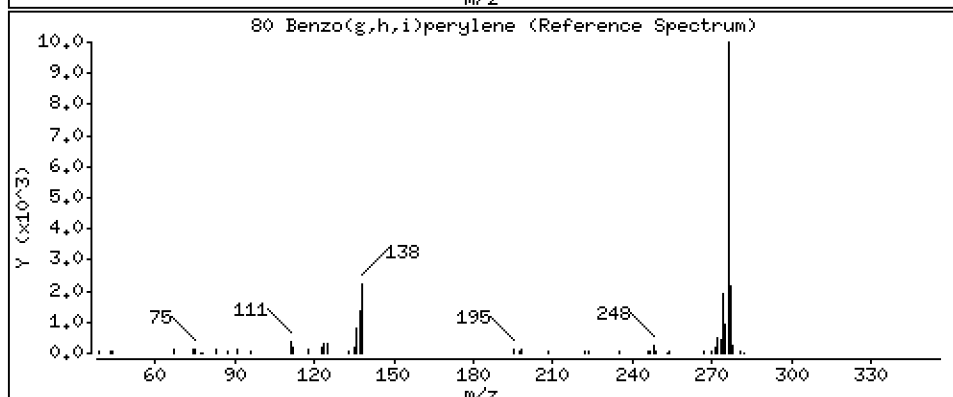
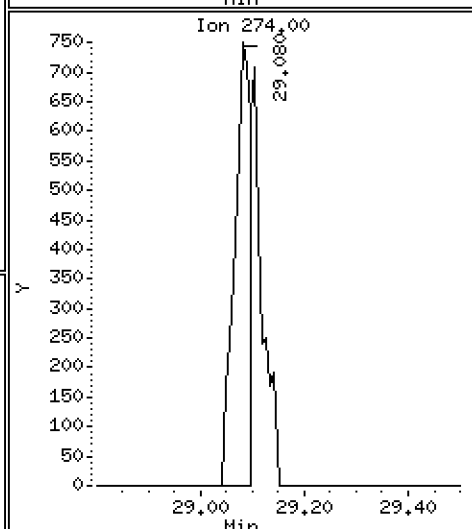
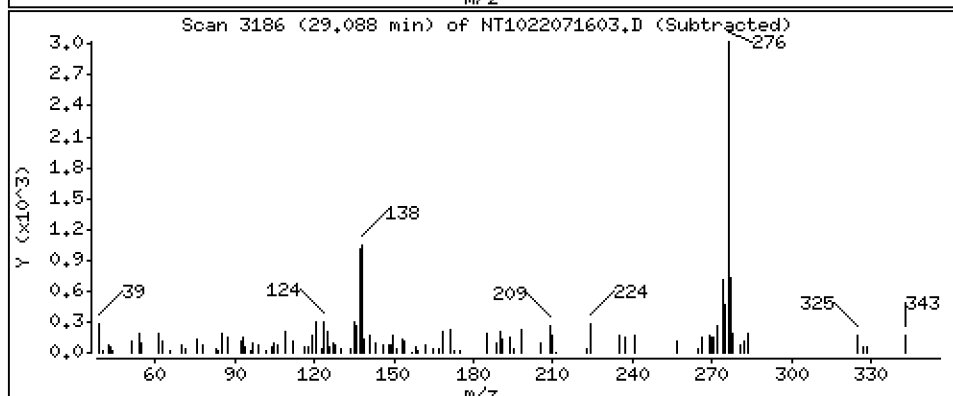
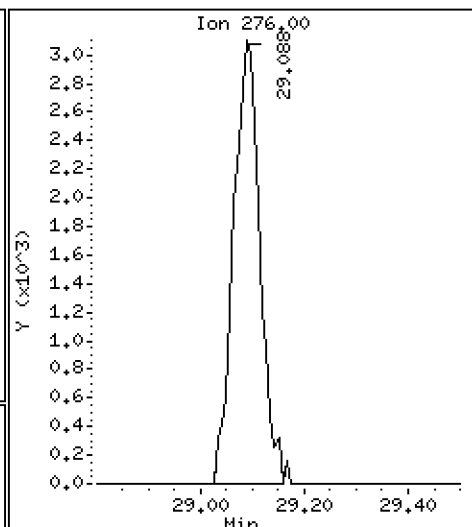
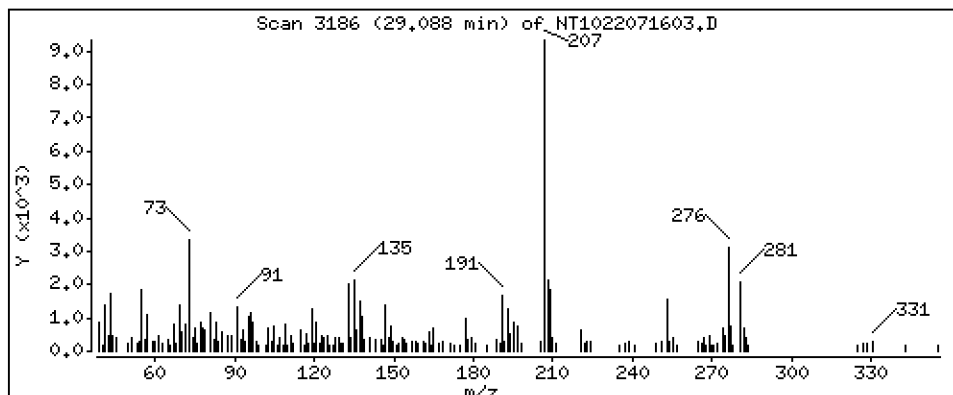
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2093 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

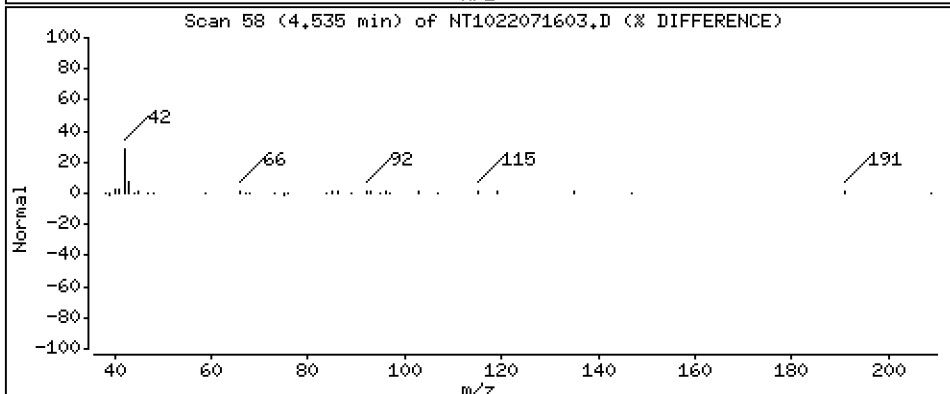
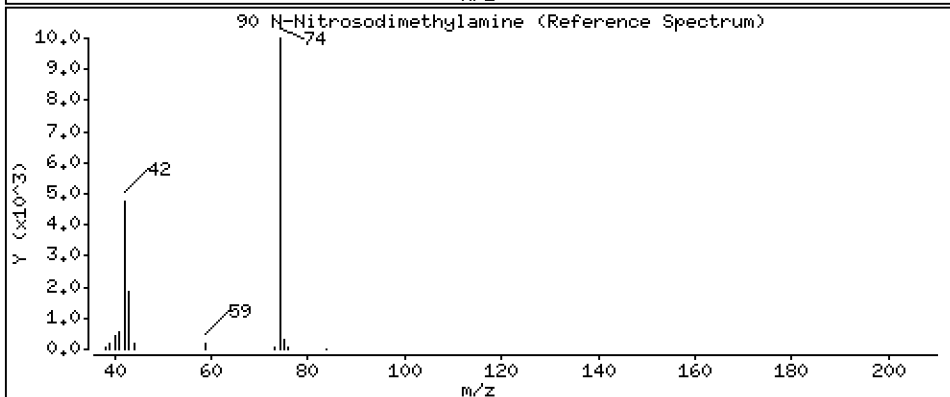
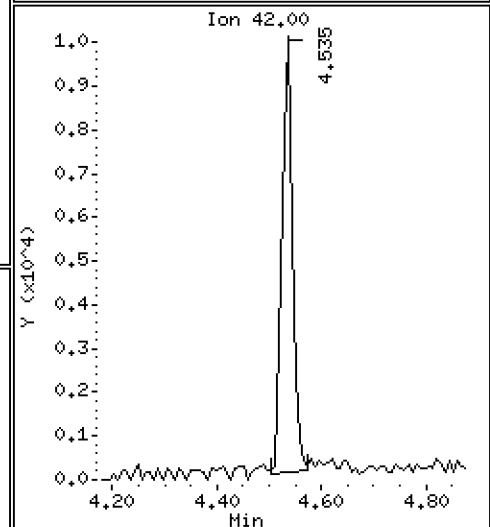
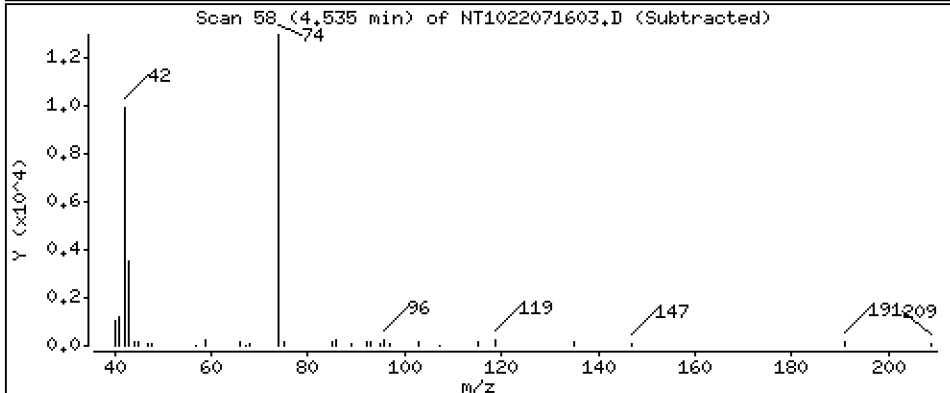
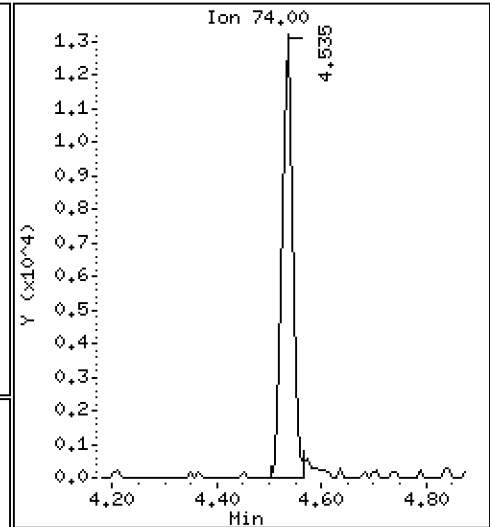
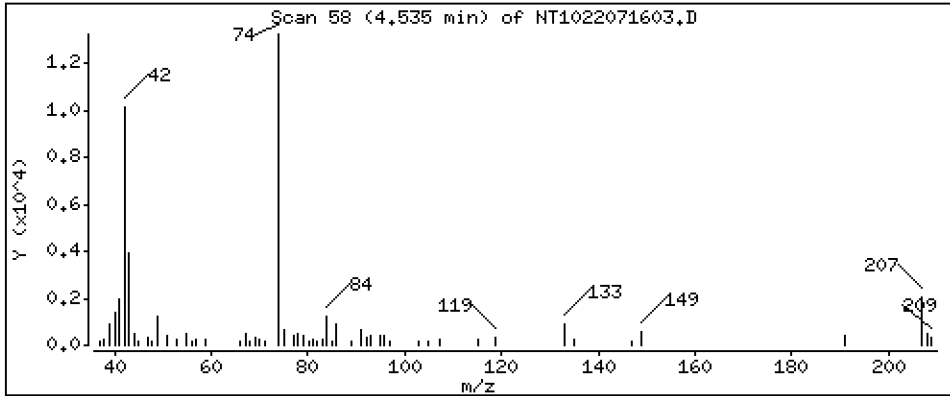
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 0.2367 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

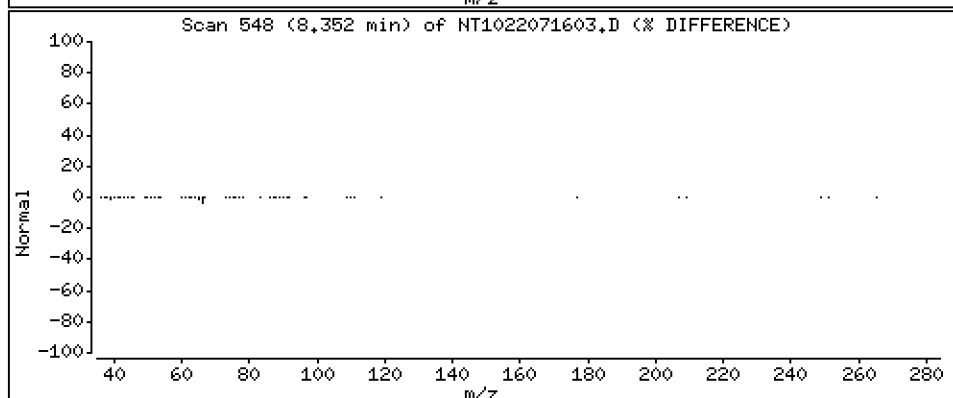
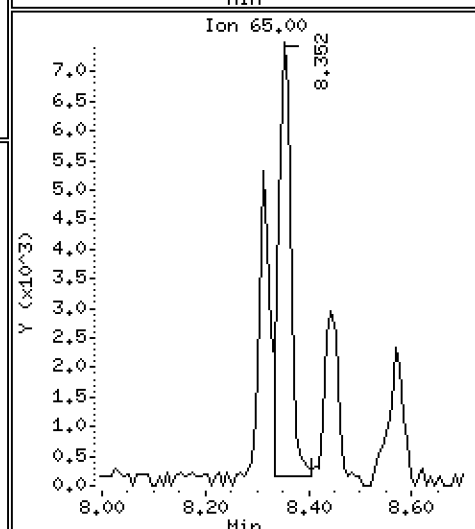
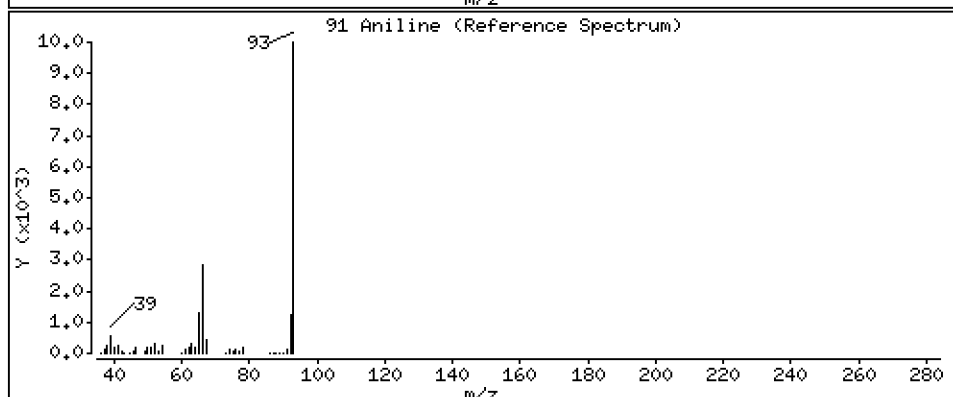
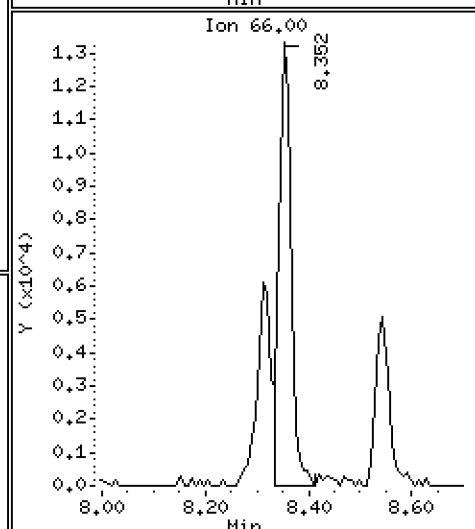
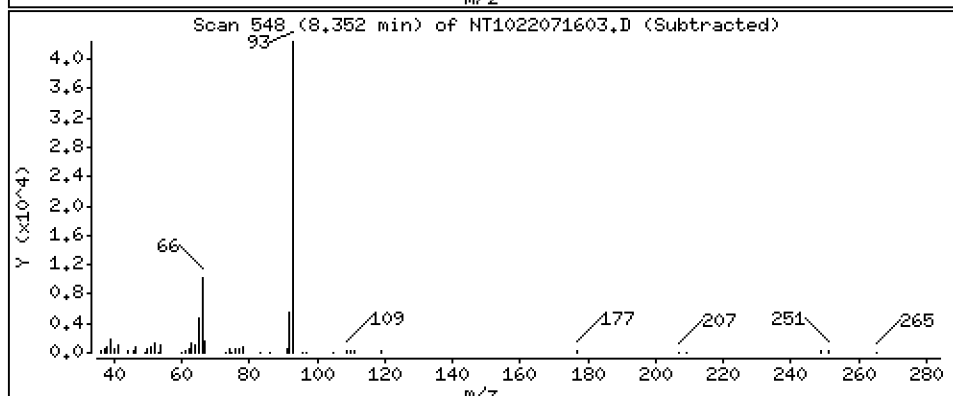
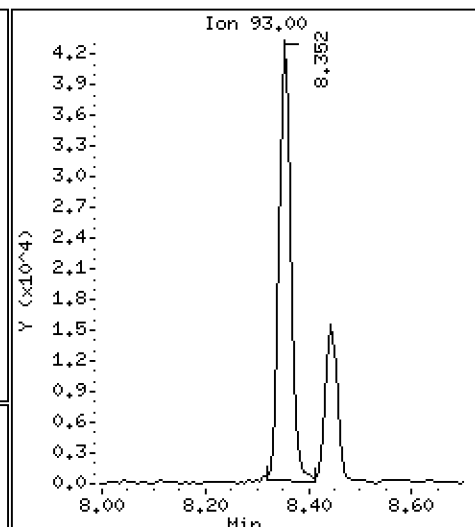
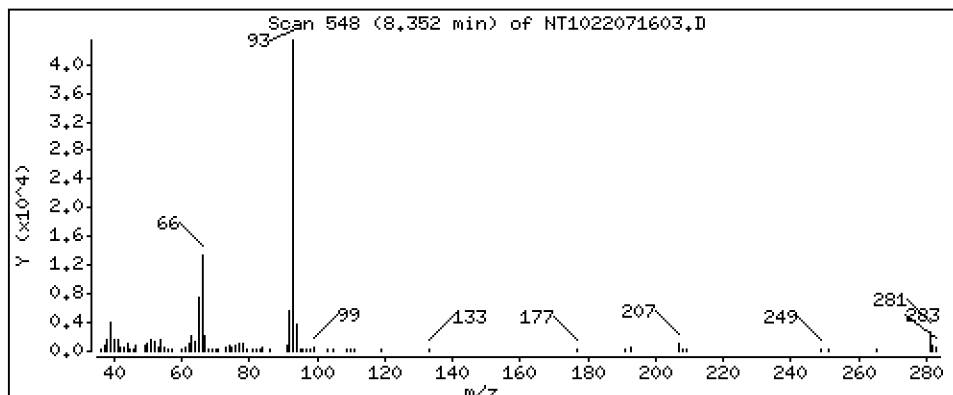
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,4129 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

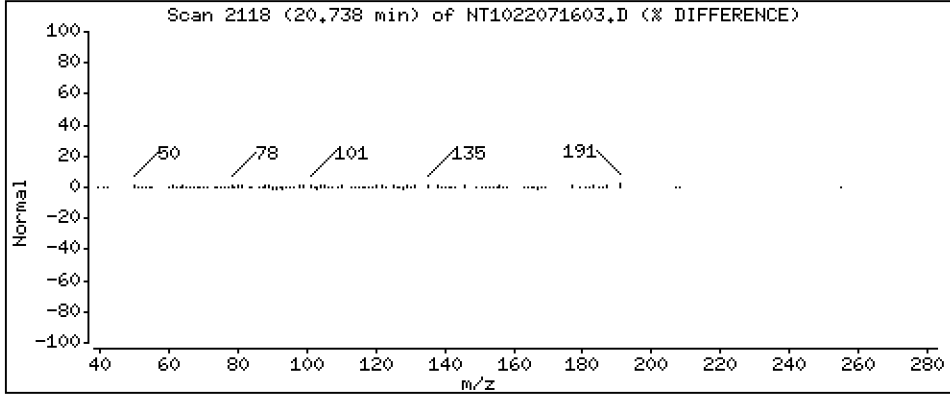
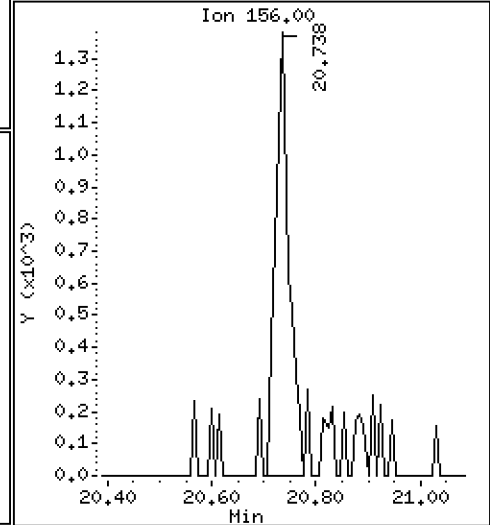
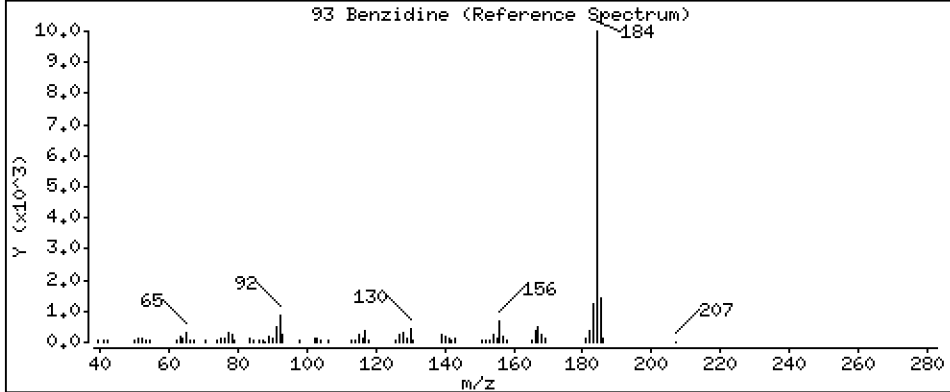
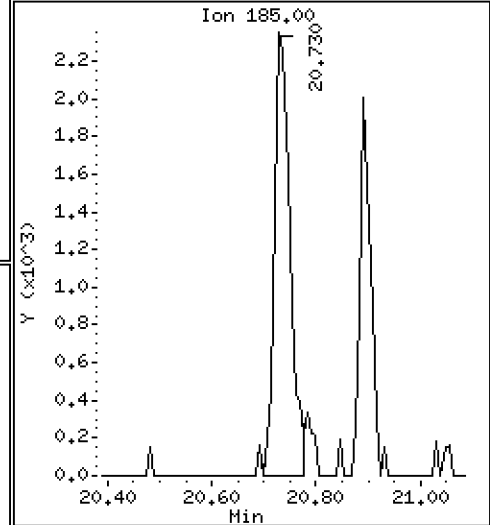
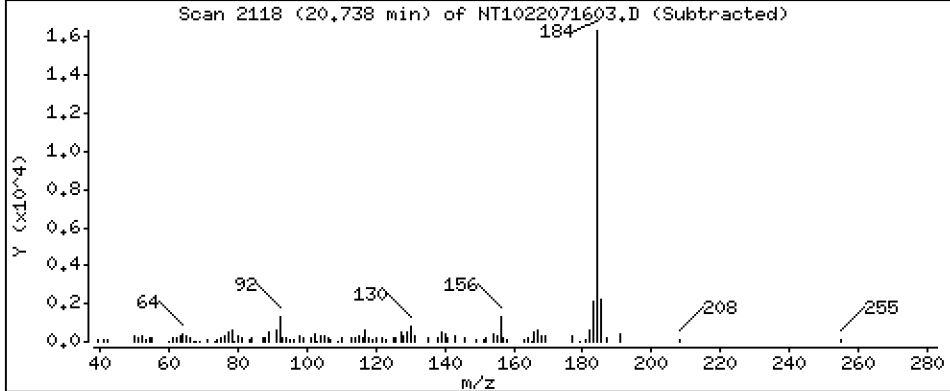
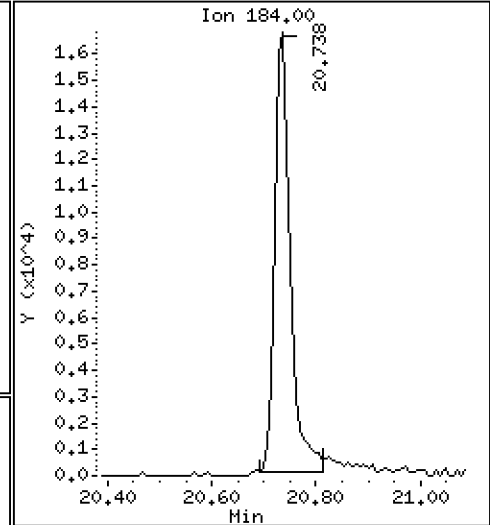
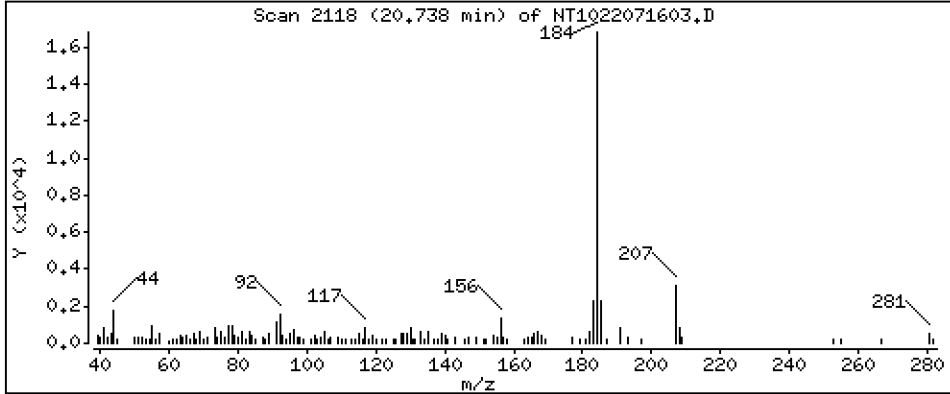
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,4753 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

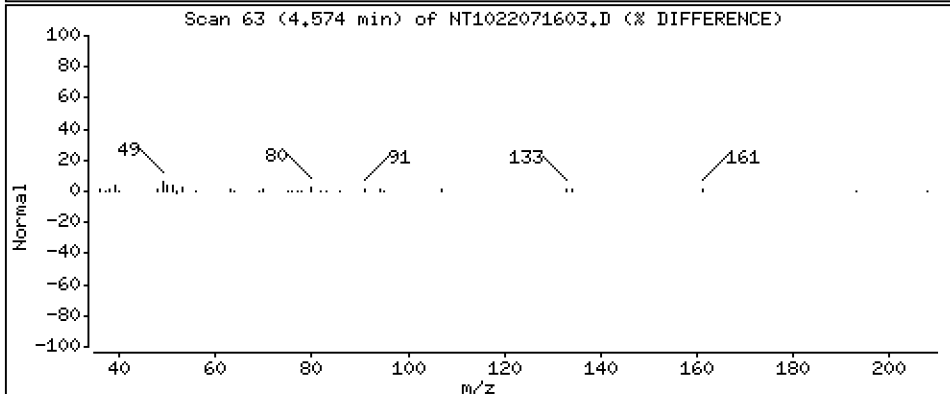
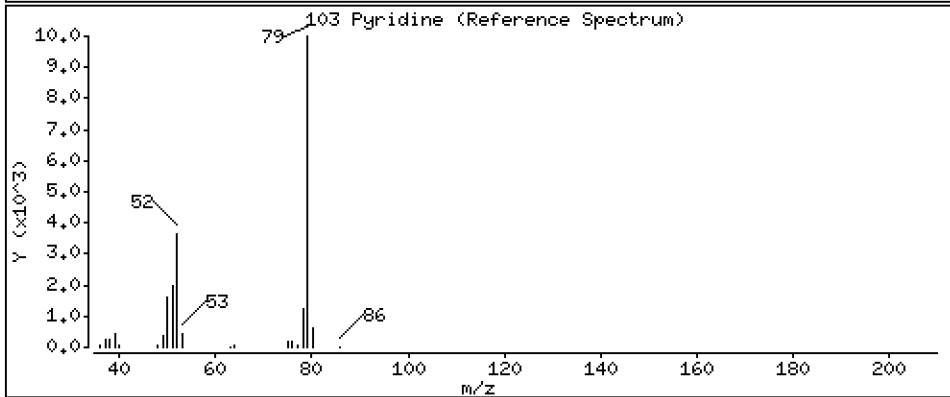
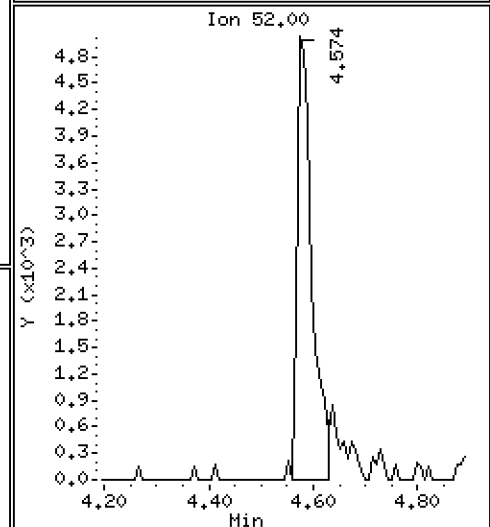
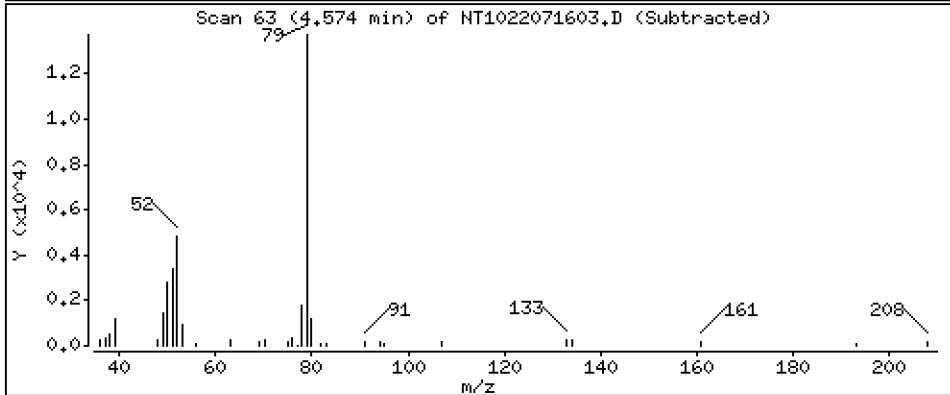
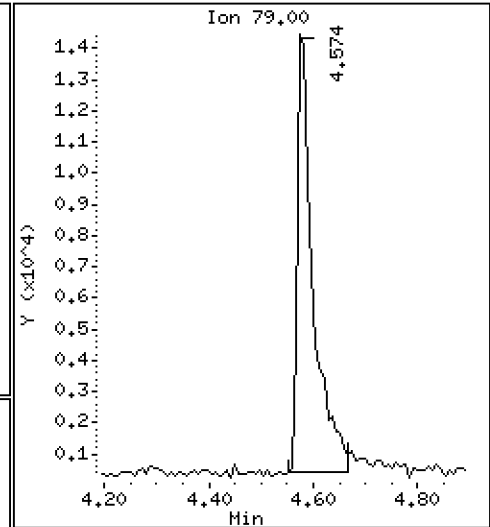
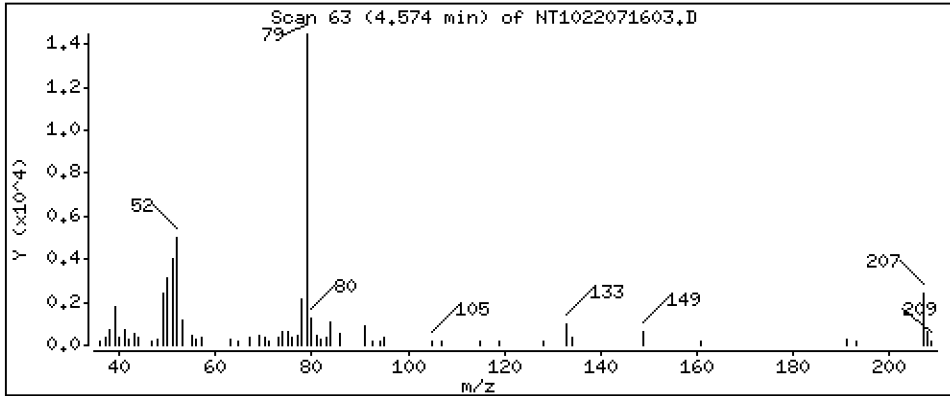
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 0.1371 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

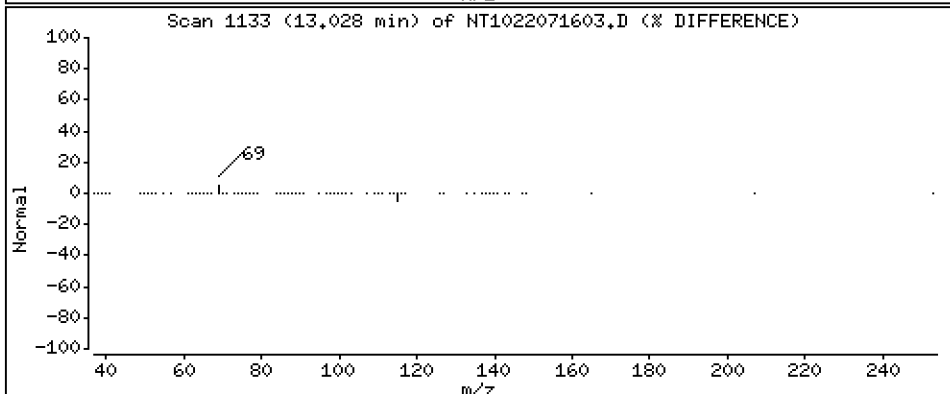
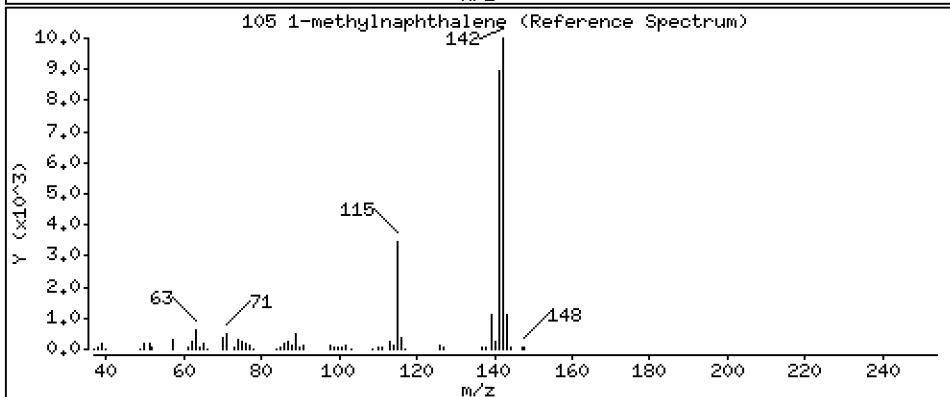
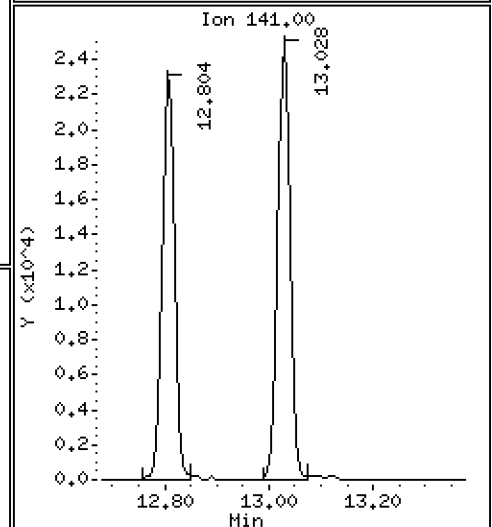
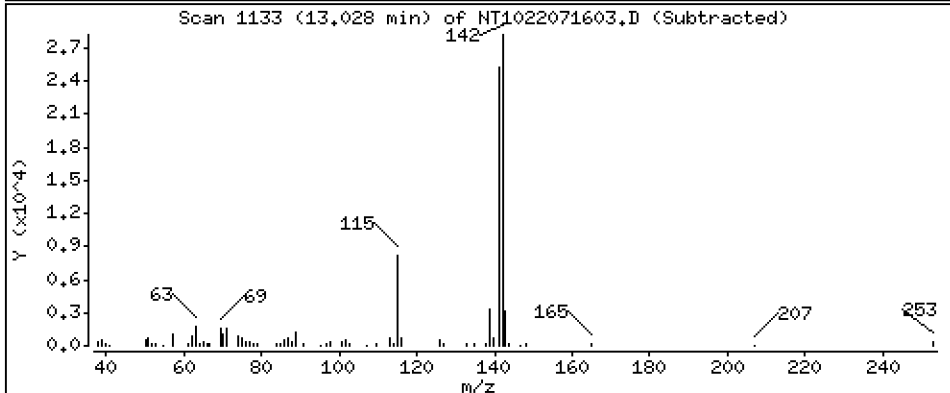
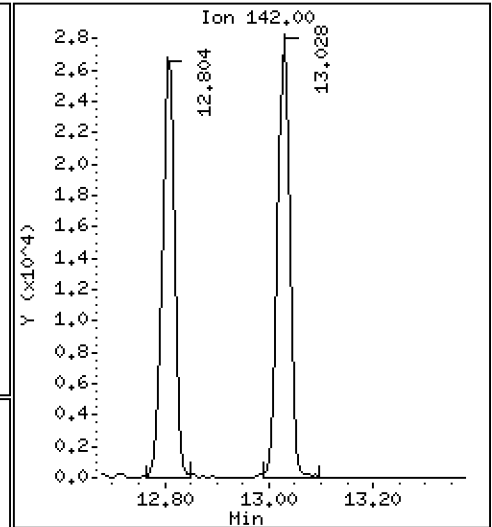
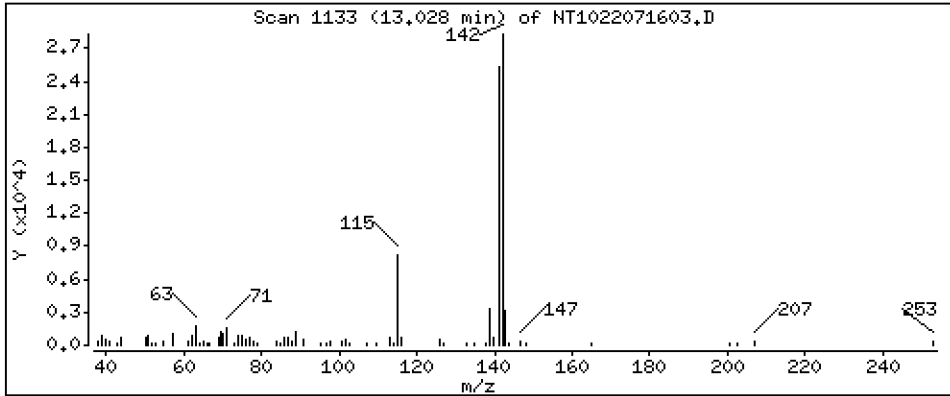
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1760 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

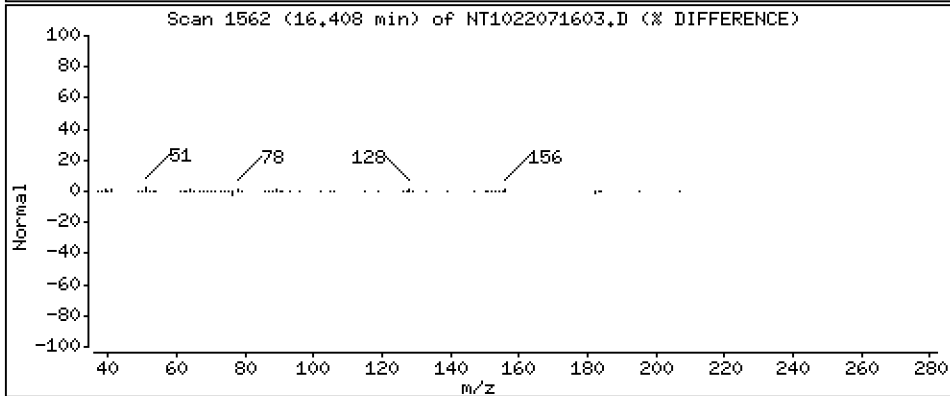
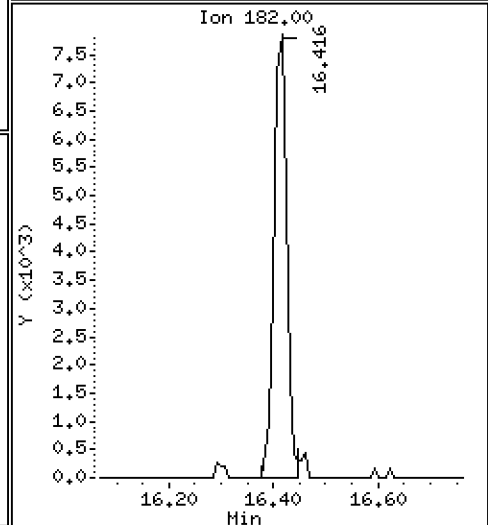
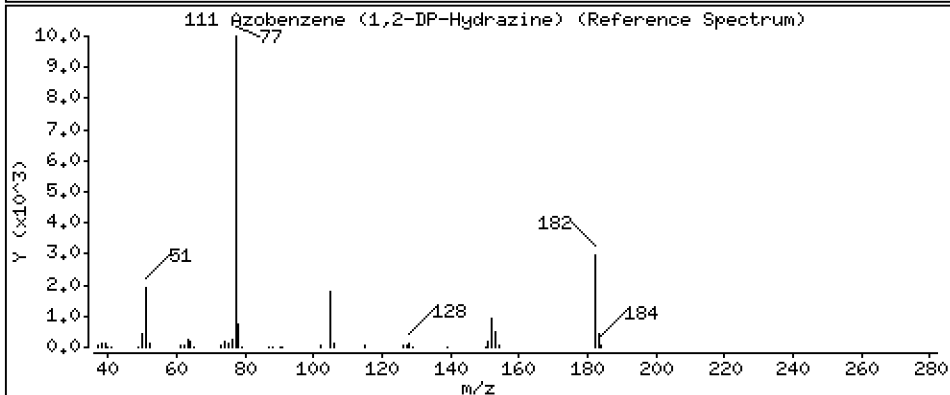
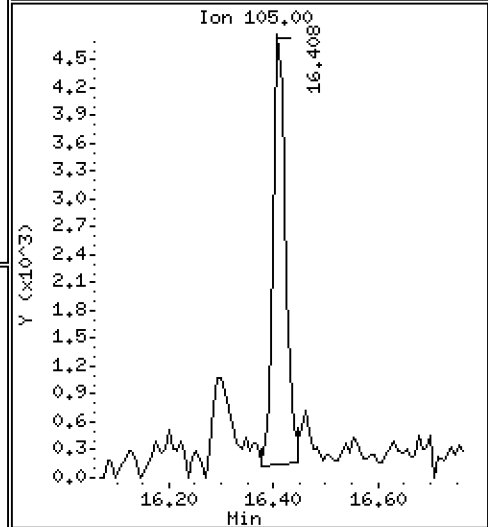
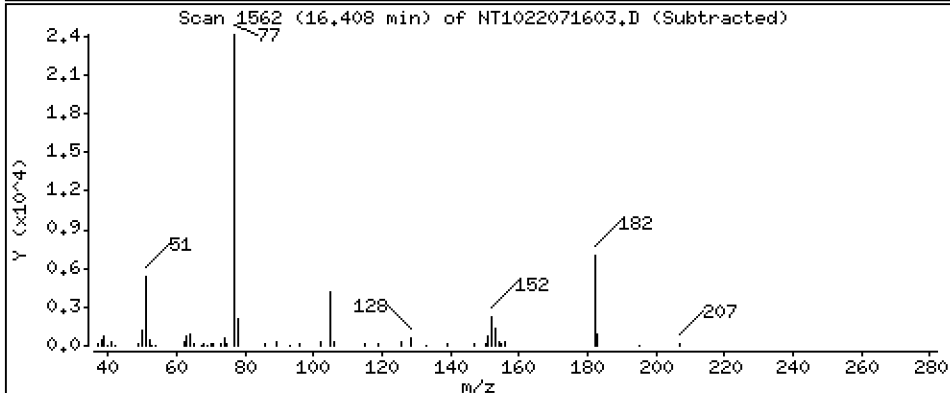
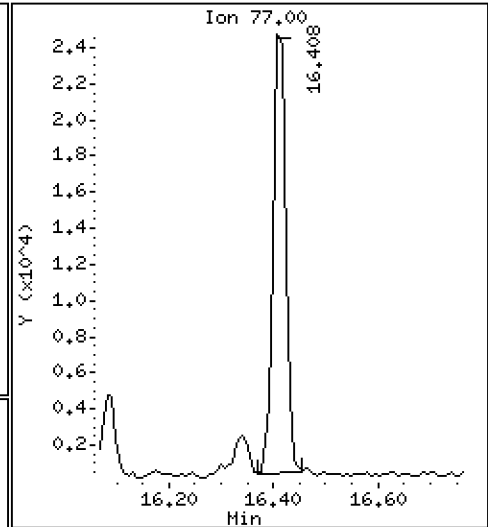
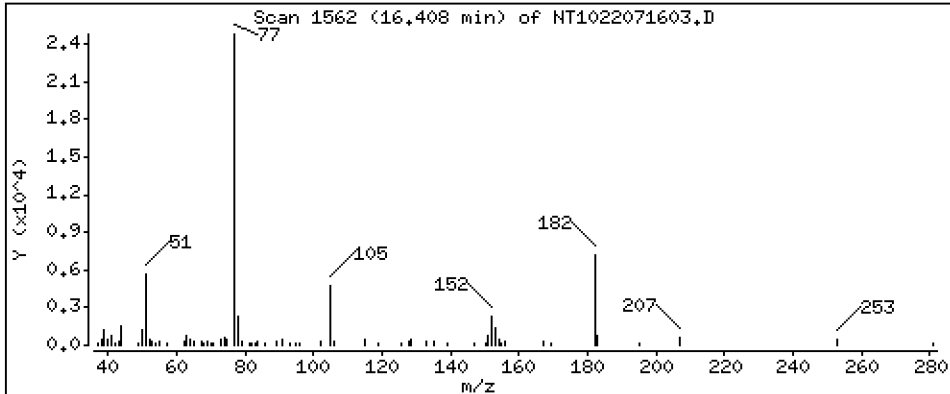
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,1258 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

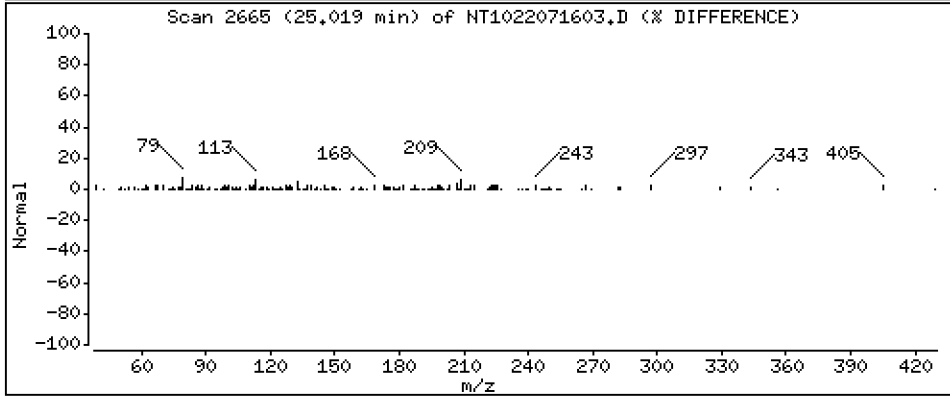
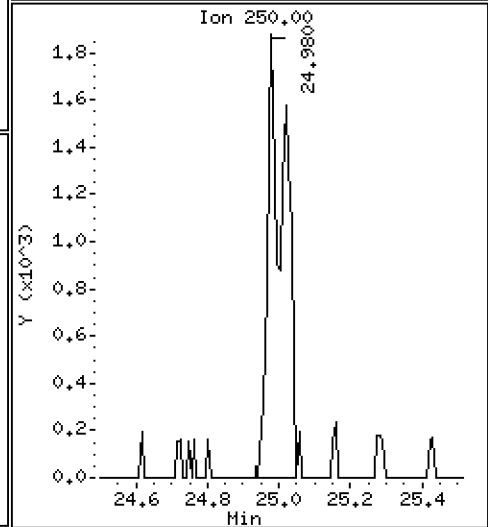
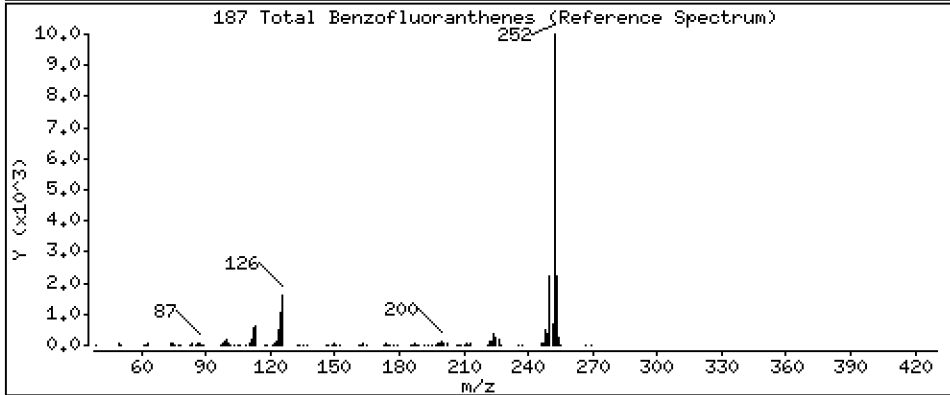
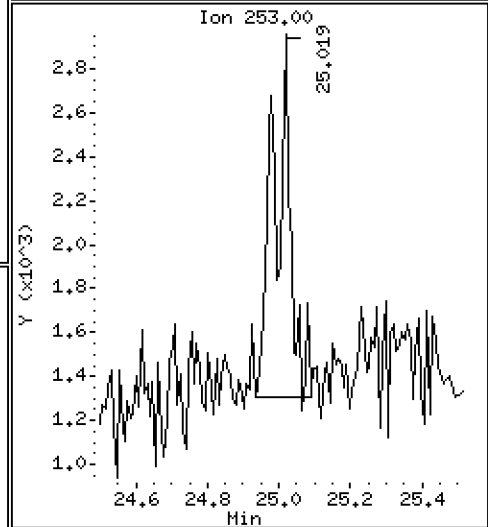
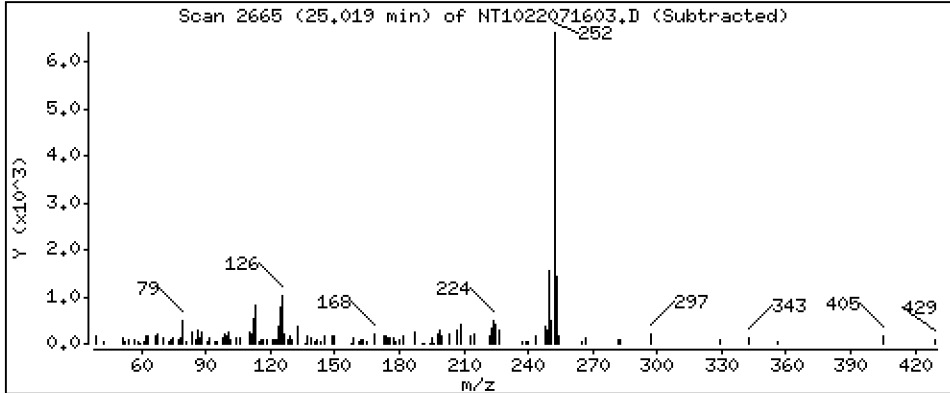
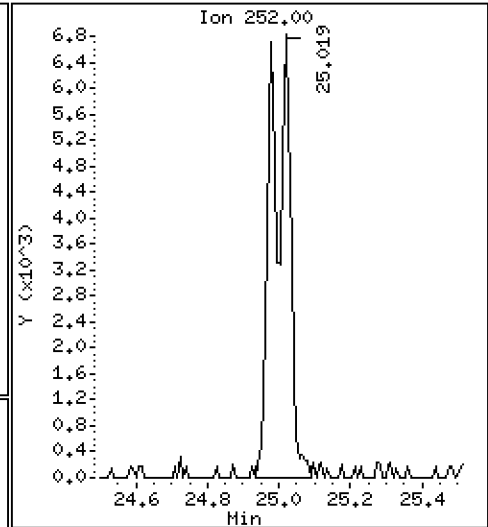
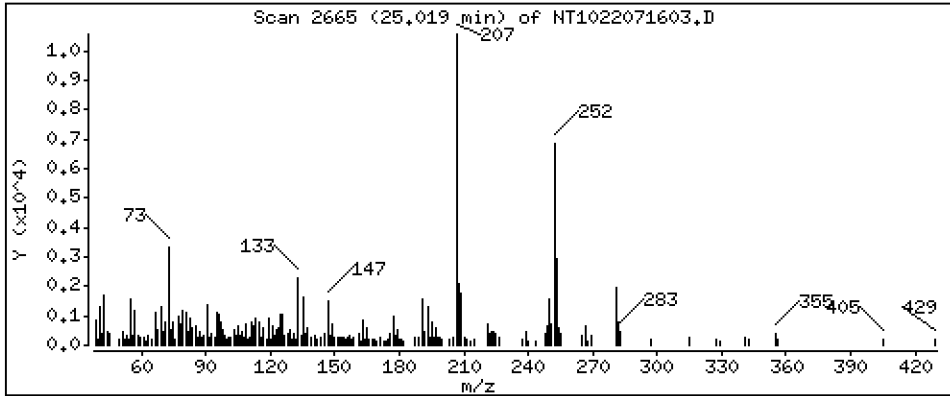
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,3563 ug/mL



Date : 16-JUL-2022 10:19

Client ID:

Instrument: nt10.i

Sample Info: SKG0171-LCV1

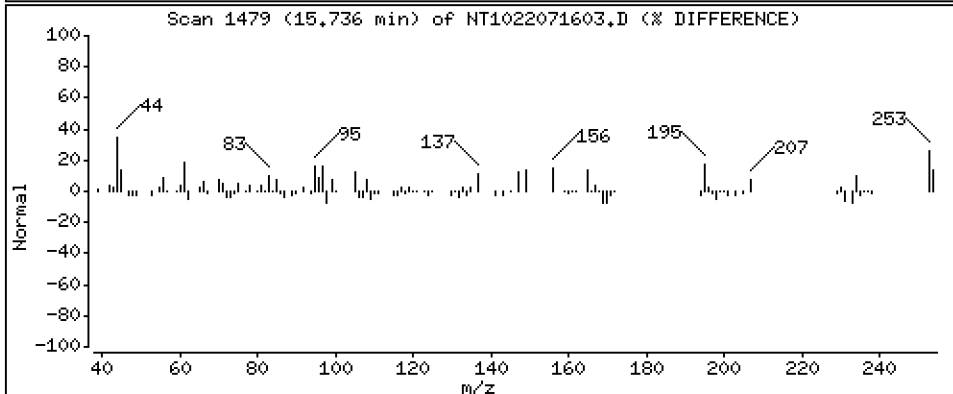
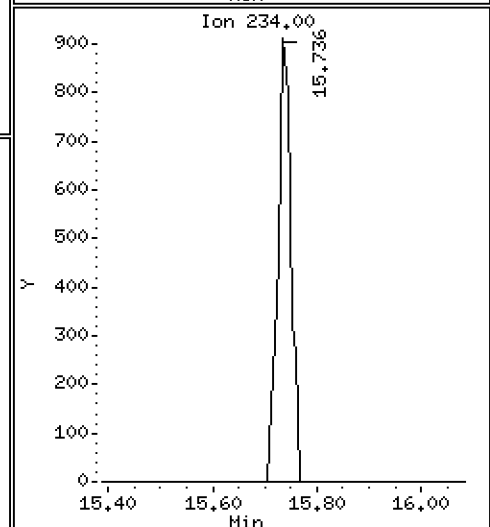
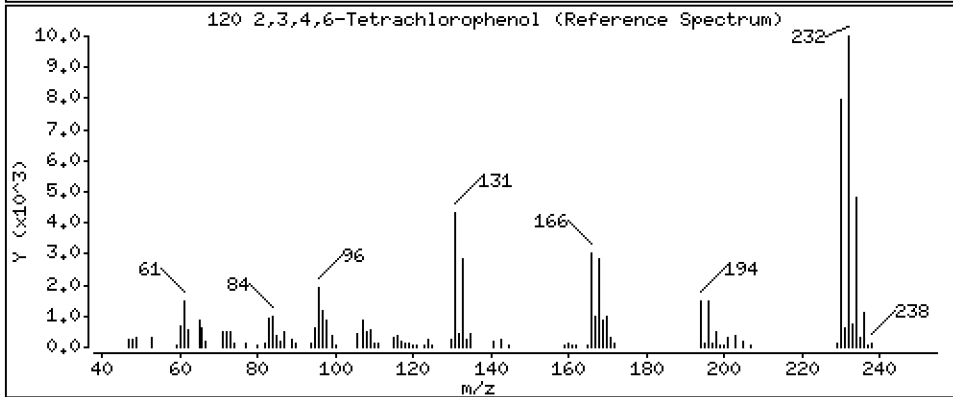
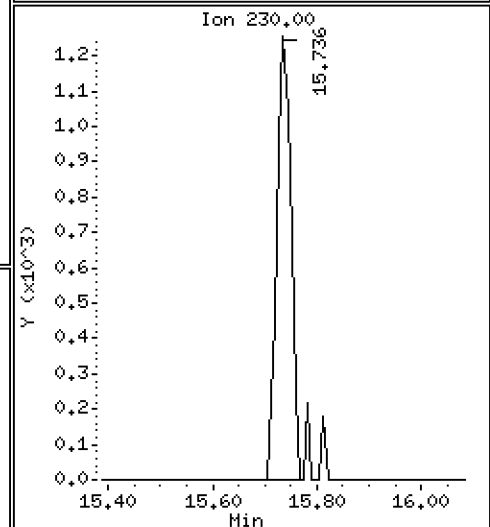
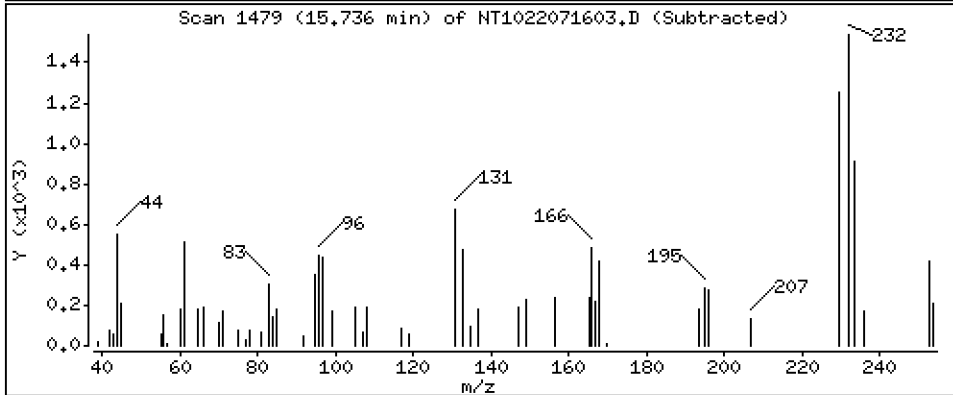
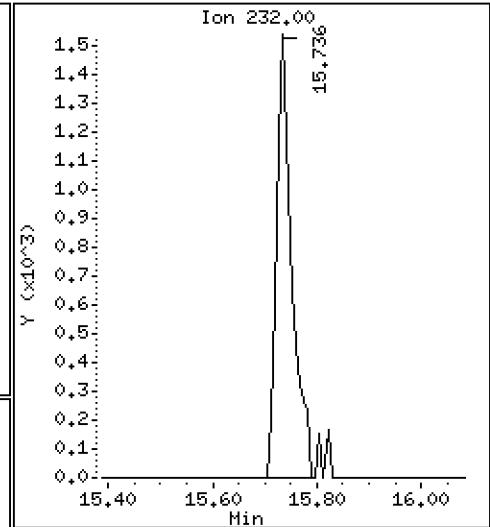
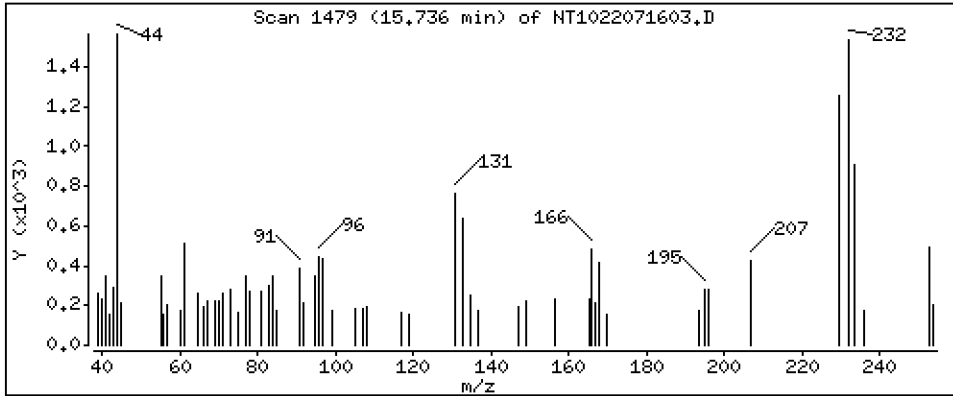
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,04442 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20220716.b\NT1022071603.D
 Lab Smp Id: SKG0171-LCV1
 Inj Date : 16-JUL-2022 10:19
 Operator : VTS
 Smp Info : SKG0171-LCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20220716.b\ABN.m
 Meth Date : 19-Jul-2022 10:48 van
 Cal Date : 23-JUN-2022 13:07
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-202011

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT1022062308.D

Compound Sublist: ICAL.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.705	6.697	(0.754)	35038	0.29588	0.2959
\$ 2 Phenol-d5	99		8.289	8.289	(0.932)	42961	0.24450	0.2445
3 Phenol	94		8.313	8.312	(0.935)	30528	0.19938	0.1994
\$ 5 2-Chlorophenol-d4	132		8.544	8.536	(0.961)	36519	0.30265	0.3026
4 Bis(2-Chloroethyl)ether	93		8.444	8.444	(0.950)	23158	0.21016	0.2102
6 2-Chlorophenol	128		8.567	8.567	(0.963)	24522	0.20089	0.2009
7 1,3-Dichlorobenzene	146		8.830	8.822	(0.993)	36884	0.27937	0.2794
* 8 1,4-Dichlorobenzene-d4	152		8.892	8.892	(1.000)	324306	4.00000	
9 1,4-Dichlorobenzene	146		8.923	8.923	(1.003)	20881	0.20064	0.2006
\$ 10 1,2-Dichlorobenzene-d4	152		9.249	9.249	(1.040)	15597	0.20977	0.2098
12 1,2-Dichlorobenzene	146		9.280	9.272	(1.044)	23929	0.21659	0.2166
11 Benzyl alcohol	108		9.171	9.171	(1.031)	12434	0.20386	0.2039
14 2,2'-oxybis(1-Chloropropane)	121		9.466	9.466	(1.065)	6657	0.25479	0.2548 (M)
13 2-Methylphenol	108		9.412	9.412	(1.058)	17302	0.18328	0.1833
17 Hexachloroethane	117		9.862	9.862	(1.109)	8659	0.18665	0.1867
16 N-Nitroso-di-n-propylamine	70		9.715	9.722	(1.093)	13123	0.19988	0.1999
15 4-Methylphenol	108		9.684	9.684	(1.089)	19626	0.19453	0.1945
\$ 18 Nitrobenzene-d5	82		9.979	9.979	(0.878)	18443	0.17481	0.1748
19 Nitrobenzene	77		10.018	10.017	(0.881)	18389	0.17294	0.1729
20 Isophorone	82		10.460	10.467	(0.920)	23953	0.15572	0.1557
21 2-Nitrophenol	139		10.646	10.646	(0.937)	9074	0.13510	0.1351
22 2,4-Dimethylphenol	107		10.717	10.716	(0.943)	31940	0.39147	0.3915
23 Bis(2-Chloroethoxy)methane	93		10.895	10.903	(0.959)	19879	0.21510	0.2151
24 Benzoic acid	105		10.929	10.954	(0.962)	1542	0.03670	0.03670 (H)
25 2,4-Dichlorophenol	162		11.116	11.115	(0.978)	29091	0.35082	0.3508
26 1,2,4-Trichlorobenzene	180		11.285	11.285	(0.993)	24424	0.27440	0.2744
* 27 Naphthalene-d8	136		11.365	11.365	(1.000)	991491	4.00000	
28 Naphthalene	128		11.411	11.411	(1.004)	46377	0.18276	0.1828
29 4-Chloroaniline	127		11.550	11.550	(1.016)	34318	0.30629	0.3063
30 Hexachlorobutadiene	225		11.774	11.774	(1.036)	11581	0.27274	0.2727
31 4-Chloro-3-methylphenol	107		12.540	12.540	(1.103)	26137	0.26756	0.2676
32 2-Methylnaphthalene	142		12.803	12.803	(1.127)	44216	0.17532	0.1753
33 Hexachlorocyclopentadiene	237							Compound Not Detected.

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.438	13.445	(0.897)	17115	0.19723	0.1972	
35 2,4,5-Trichlorophenol	196		13.531	13.523	(0.903)	19544	0.18745	0.1874	
§ 36 2-Fluorobiphenyl	172		13.585	13.592	(0.907)	47146	0.13645	0.1364	
37 2-Chloronaphthalene	162		13.794	13.801	(0.920)	40362	0.13251	0.1325	
38 2-Nitroaniline	65		14.057	14.064	(0.938)	15135	0.18576	0.1858	
39 Dimethylphthalate	163		14.490	14.498	(0.967)	37677	0.14071	0.1407	
40 Acenaphthylene	152		14.668	14.668	(0.979)	60509	0.13557	0.1356	
41 2,6-Dinitrotoluene	165		14.637	14.637	(0.977)	14169	0.22784	0.2278	
* 42 Acenaphthene-d10	164		14.986	14.978	(1.000)	763546	4.00000		
43 3-Nitroaniline	138		14.916	14.924	(0.995)	17576	0.24008	0.2401	
44 Acenaphthene	153		15.048	15.047	(1.004)	41400	0.18644	0.1864	
45 2,4-Dinitrophenol	184		Compound Not Detected.						
46 Dibenzofuran	168		15.380	15.380	(1.026)	50900	0.14423	0.1442	
47 4-Nitrophenol	109		15.303	15.295	(1.021)	3539	0.14819	0.1482 (M)	
48 2,4-Dinitrotoluene	165		15.450	15.449	(1.031)	15159	0.18238	0.1824	
50 Diethylphthalate	149		15.944	15.967	(1.064)	18397	0.08009	0.08009	
49 Fluorene	166		16.091	16.091	(1.074)	44644	0.10587	0.1059	
51 4-Chlorophenyl-phenylether	204		16.084	16.091	(1.073)	19112	0.10321	0.1032	
52 4-Nitroaniline	138		16.192	16.199	(1.080)	20541	0.28014	0.2801	
53 4,6-Dinitro-2-methylphenol	198		16.300	16.299	(0.904)	4645	0.13557	0.1356	
54 N-Nitrosodiphenylamine	169		16.338	16.346	(0.906)	34118	0.24841	0.2484	
§ 55 2,4,6-Tribromophenol	330		16.631	16.631	(1.110)	2858	0.08306	0.08306 (M)	
56 4-Bromophenyl-phenylether	248		17.094	17.094	(0.948)	13226	0.20784	0.2078	
57 Hexachlorobenzene	284		17.418	17.418	(0.966)	9105	0.14843	0.1484	
58 Pentachlorophenol	266		Compound Not Detected.						
* 59 Phenanthrene-d10	188		18.029	18.029	(1.000)	873486	4.00000		
60 Phenanthrene	178		18.076	18.083	(1.003)	41193	0.17950	0.1795	
61 Anthracene	178		18.169	18.176	(1.008)	41069	0.16794	0.1679	
62 Carbazole	167		18.509	18.517	(1.027)	42747	0.18947	0.1895	
63 Di-n-butylphthalate	149		19.329	19.337	(1.072)	51850	0.15347	0.1535	
64 Fluoranthene	202		20.490	20.497	(0.886)	61048	0.18277	0.1828	
65 Pyrene	202		20.915	20.923	(0.904)	65307	0.22347	0.2235	
§ 66 Terphenyl-d14	244		21.217	21.209	(0.917)	41307	0.24941	0.2494	
67 Butylbenzylphthalate	149		22.162	22.169	(0.958)	22775	0.23755	0.2375	
68 Benzo(a)anthracene	228		23.106	23.114	(0.999)	41070	0.20422	0.2042	
* 69 Chrysene-d12	240		23.130	23.130	(1.000)	474589	4.00000		
70 3,3'-Dichlorobenzidine	252		23.060	23.083	(0.997)	40758	0.62196	0.6220	
71 Chrysene	228		23.176	23.191	(1.002)	26055	0.19569	0.1957	
72 bis(2-Ethylhexyl)phthalate	149		23.207	23.207	(0.959)	18071	0.45783	0.4578	
* 134 Di-n-octylphthalate-d4	153		24.198	24.198	(1.000)	357102	4.00000		
73 Di-n-octylphthalate	149		24.213	24.229	(1.001)	15731	0.19381	0.1938	
74 Benzo(b)fluoranthene	252		24.980	25.003	(0.971)	13545	0.18138	0.1814	
75 Benzo(k)fluoranthene	252		25.019	25.049	(0.972)	11522	0.16046	0.1605	
76 Benzo(a)pyrene	252		25.623	25.646	(0.996)	10954	0.17922	0.1792	
* 77 Perylene-d12	264		25.731	25.723	(1.000)	164892	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.334	28.381	(1.101)	12604	0.19314	0.1931	
79 Dibenzo(a,h)anthracene	278		28.350	28.388	(1.102)	9913	0.19843	0.1984	
80 Benzo(g,h,i)perylene	276		29.088	29.150	(1.130)	10916	0.20926	0.2093	
90 N-Nitrosodimethylamine	74		4.535	4.527	(0.510)	18339	0.23669	0.2367	
91 Aniline	93		8.351	8.351	(0.939)	63237	0.41295	0.4129	
93 Benzidine	184		20.737	20.737	(0.897)	33280	0.47533	0.4753	
103 Pyridine	79		4.574	4.542	(0.514)	30109	0.13708	0.1371	
105 1-methylnaphthalene	142		13.028	13.027	(1.146)	43619	0.17605	0.1760	
111 Azobenzene (1,2-DP-Hydrazine)	77		16.408	16.415	(1.095)	38348	0.12575	0.1258	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252		25.019	25.003	(0.972)	24806	0.35626	0.3563
120 2,3,4,6-Tetrachlorophenol	232		15.736	15.735	(1.050)	2997	0.04442	0.04442

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 16-JUL-2022
 Lab File ID: NT1022071603.D Calibration Time: 09:31
 Lab Smp Id: SKG0171-LCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20220716.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	222675	111338	445350	324306	45.64
27 Naphthalene-d8	784985	392493	1569970	991491	26.31
42 Acenaphthene-d10	558016	279008	1116032	763546	36.83
59 Phenanthrene-d10	687248	343624	1374496	873486	27.10
69 Chrysene-d12	262511	131256	525022	474589	80.79
134 Di-n-octylphthala	310811	155406	621622	357102	14.89
77 Perylene-d12	94855	47428	189710	164892	73.84

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	8.89	8.39	9.39	8.89	0.00
27 Naphthalene-d8	11.37	10.87	11.87	11.37	0.00
42 Acenaphthene-d10	14.98	14.48	15.48	14.99	0.05
59 Phenanthrene-d10	18.03	17.53	18.53	18.03	0.00
69 Chrysene-d12	23.13	22.63	23.63	23.13	0.00
134 Di-n-octylphthala	24.20	23.70	24.70	24.20	0.00
77 Perylene-d12	25.72	25.22	26.22	25.73	0.03

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

REVIEW SUMMARY FOR FILE - NT1022071603.D

Lab ID: SKG0171-LCV1
nt10.i, ABN.m, 16-JUL-2022 10:19

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.935	0.959	-0.0242	bis(2-Ethylhexyl)phthalate
0.950	1.000	-0.0504	1,4-Dichlorobenzene-d4
0.963	1.000	-0.0365	Naphthalene-d8
0.993	1.000	-0.0070	Acenaphthene-d10
1.044	1.000	0.0436	Di-n-octylphthalate-d4
1.031	1.000	0.0314	Perylene-d12
1.065	0.753	0.3114	2-Fluorophenol
1.058	0.932	0.1262	Phenol-d5
1.109	0.960	0.1491	2-Chlorophenol-d4
1.093	1.040	0.0524	1,2-Dichlorobenzene-d4
1.089	0.878	0.2110	Nitrobenzene-d5
0.881	0.907	-0.0260	2-Fluorobiphenyl
0.920	1.110	-0.1900	2,4,6-Tribromophenol
0.937	0.917	0.0198	Terphenyl-d14

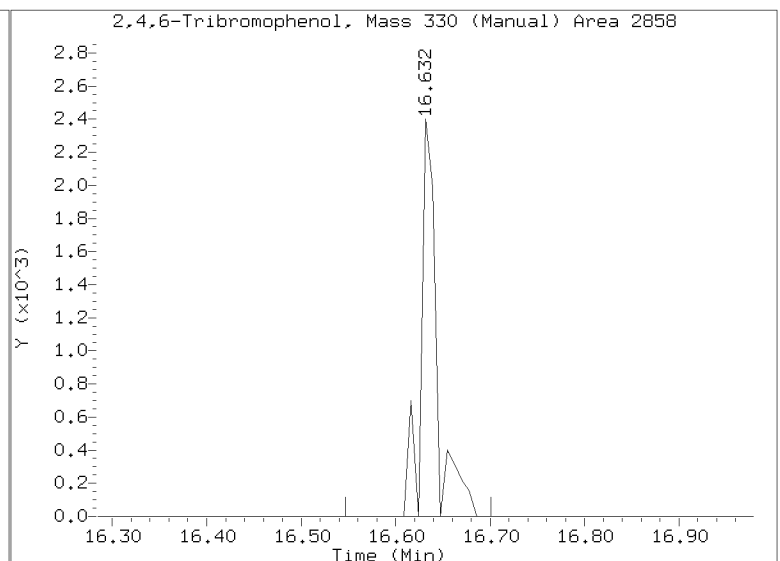
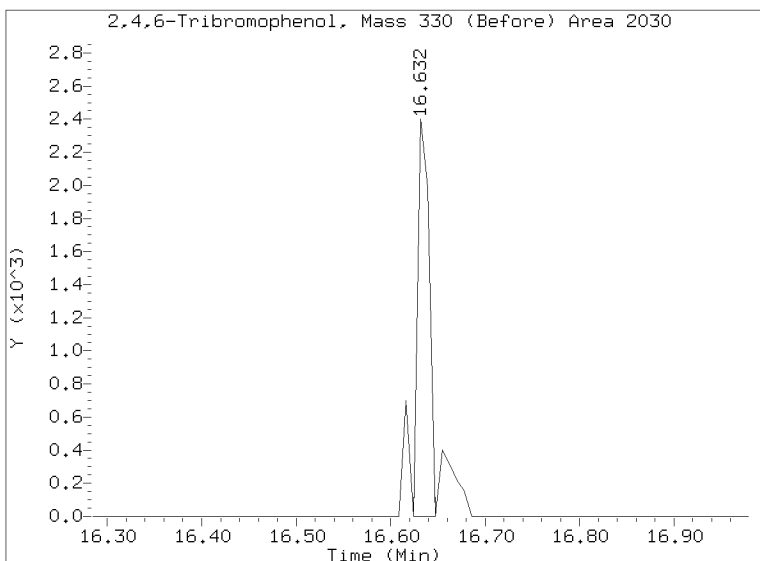
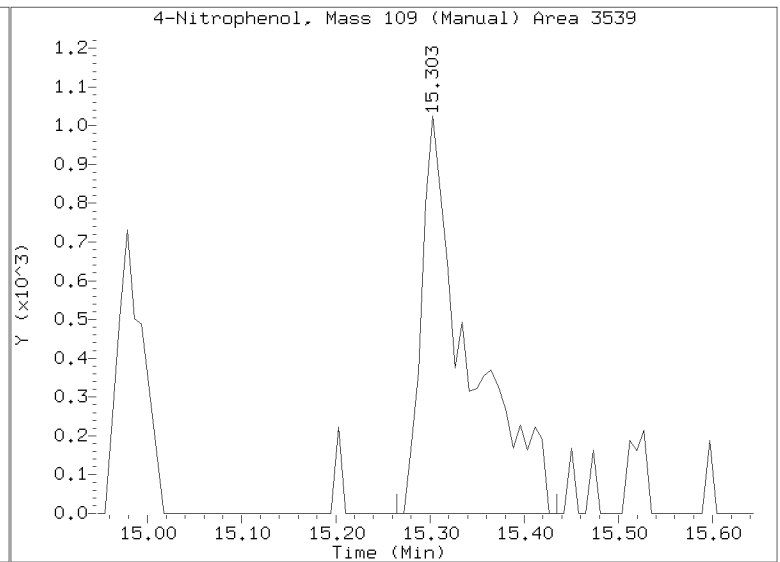
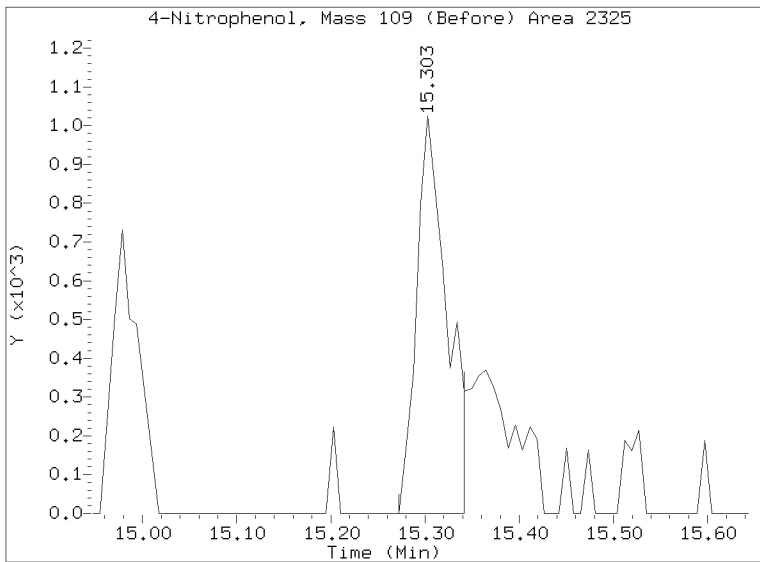
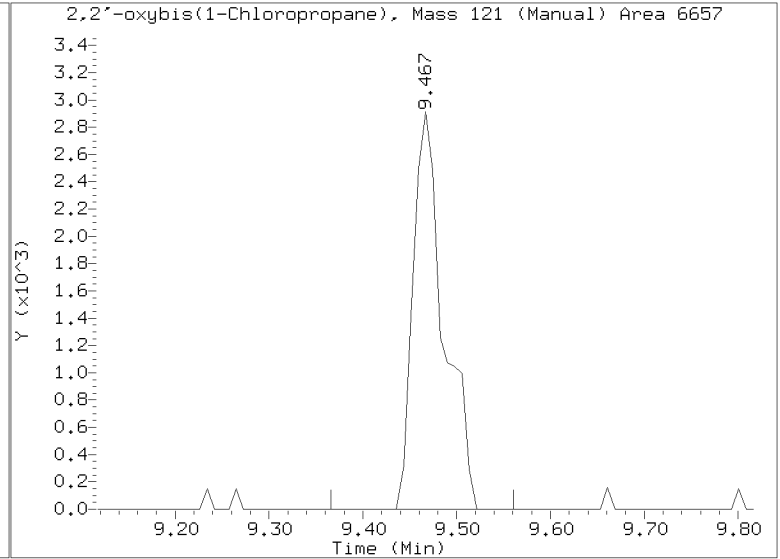
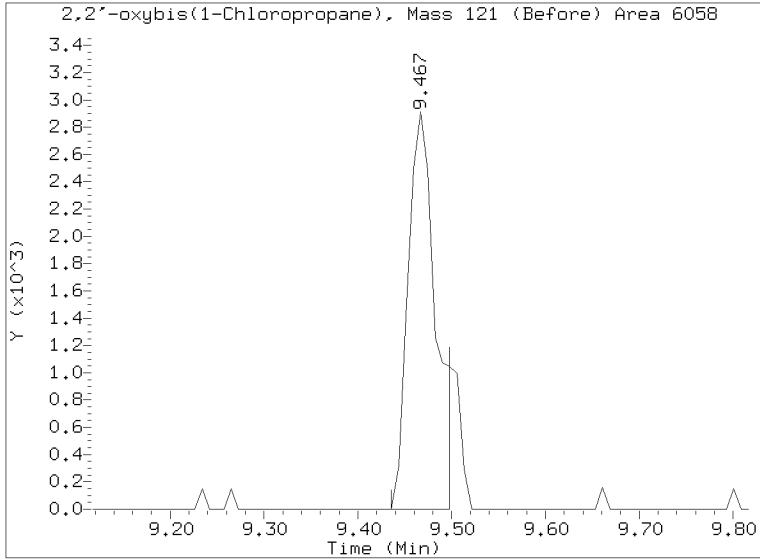
RRT check based on Ccal File: NT1022071602.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20220716.b/NT1022071603.D
Injection Date: 16-JUL-2022 10:19
Lab ID:SKG0171-LCV1 Client ID:
Report Date: 07/19/2022 10:50





ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22G0019

Client: GeoEngineers

Project: RG Haley Site-Bellingham

Sequence: SKF0270

Instrument: NT10

Calibration: FF00062

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SKF0270-TUN1	NT1022062301.D	NA	06/23/22 09:00
CAL 5	SKF0270-CAL5	NT1022062302.D	NA	06/23/22 09:16
CAL 20	SKF0270-CAL7	NT1022062303.D	NA	06/23/22 09:54
CAL 0.2	SKF0270-CAL1	NT1022062304.D	NA	06/23/22 10:33
CAL 10	SKF0270-CAL6	NT1022062305.D	NA	06/23/22 11:11
CAL 0.5	SKF0270-CAL2	NT1022062306.D	NA	06/23/22 11:50
CAL 2.5	SKF0270-CAL4	NT1022062307.D	NA	06/23/22 12:29
CAL 1.0	SKF0270-CAL3	NT1022062308.D	NA	06/23/22 13:07
SCV 5.0	SKF0270-SCV1	NT1022062311.D	NA	06/23/22 15:20
Initial Cal Blank	SKF0270-ICB1	NT1022062312.D	NA	06/23/22 15:59
ABN 5	SKF0270-ICV1	NT1022062313.D	NA	06/23/22 16:38
ZZZZZ	BKF0257-BLK1	NT1022062315.D	Solid	06/23/22 17:55
ZZZZZ	BKF0257-BS1	NT1022062316.D	Solid	06/23/22 18:34
ZZZZZ	BKF0257-BSD1	NT1022062317.D	Solid	06/23/22 19:13
ZZZZZ	BKF0257-SRM1	NT1022062318.D	Solid	06/23/22 19:52
ZZZZZ	22F0092-15	NT1022062319.D	Solid	06/23/22 20:31
ZZZZZ	22F0092-16	NT1022062322.D	Solid	06/23/22 22:27
ZZZZZ	22F0092-18	NT1022062323.D	Solid	06/23/22 23:06
ZZZZZ	22F0092-24	NT1022062324.D	Solid	06/23/22 23:45
ZZZZZ	22F0092-25	NT1022062325.D	Solid	06/24/22 00:23
ZZZZZ	22F0151-01	NT1022062326.D	Solid	06/24/22 01:02
ZZZZZ	22F0151-02	NT1022062327.D	Solid	06/24/22 01:41
ZZZZZ	22D0147-02RE1	NT1022062328.D	Solid	06/24/22 02:19
ZZZZZ	22D0147-03RE1	NT1022062329.D	Solid	06/24/22 02:58
ZZZZZ	22D0147-04RE1	NT1022062330.D	Solid	06/24/22 03:36
ZZZZZ	22E0353-05RE1	NT1022062331.D	Solid	06/24/22 04:15
ABN 5	SKF0270-CCV1	NT1022062332.D	NA	06/24/22 04:54



ANALYSIS SEQUENCE

SKF0270

Instrument: NT10 Element Column ID: k000190
Calibration ID: UNASSIGNED Tune File: 211222u
EM Voltage: 1976

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SKF0270-TUN1	MS Tune	QC		1	K004775		
SKF0270-CAL5	CAL 5	QC		2	K005652	J012379	
SKF0270-CAL7	CAL 20	QC		3	K005654	J012379	
SKF0270-CAL1	CAL 0.2	QC		4	K005648	J012379	
SKF0270-CAL6	CAL 10	QC		5	K005653	J012379	
SKF0270-CAL2	CAL 0.5	QC		6	K005649	J012379	
SKF0270-CAL4	CAL 2.5	QC		7	K005651	J012379	
SKF0270-CAL3	CAL 1.0	QC		8	K005650	J012379	
SKF0270-SCV1	SCV 5.0	QC		9	J008837	J012379	
SKF0270-ICB1	Initial Cal Blank	QC		10	K005156	J012379	
SKF0270-ICV1	ABN 5	QC		11	K005652	J012379	
BKF0257-BLK1	Blank	QC		12		J012379	
BKF0257-BS1	LCS	QC		13		J012379	
BKF0257-BSD1	LCS Dup	QC		14		J012379	
BKF0257-SRM1	Reference	QC		15		J012379	
BKF0257-MS1	Matrix Spike	QC		16		J012379	
BKF0257-MSD1	Matrix Spike Dup	QC		17		J012379	
22F0092-15	T91-RI-SC27D	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 04	18		J012379	
22F0092-16	T91-RI-SC05D	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 03	19		J012379	
22F0092-18	T91-RI-SC24D	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 03	20		J012379	
22F0092-24	T91-RI-SC05C	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 03	21		J012379	
22F0092-25	T91-RI-SC05E	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 03	22		J012379	



ANALYSIS SEQUENCE

SKF0270

Instrument: NT10 Element Column ID: k000190
Calibration ID: UNASSIGNED Tune File: 211222u
EM Voltage: 1976

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
22F0151-01	CS-20220606	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 03	23		J012379	
22F0151-02	HL-20220606	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 03	24		J012379	
22D0147-02RE1	SK-SED-5	SVOC (20ug/kg solid or 0.2ug/L low H2C	A 01	25		J012379	Added 6/25/2022 by YZ
22D0147-03RE1	SK-SED-4	SVOC (20ug/kg solid or 0.2ug/L low H2C	A 01	26		J012379	Added 6/25/2022 by YZ
22D0147-04RE1	SK-SED-3	SVOC (20ug/kg solid or 0.2ug/L low H2C	A 01	27		J012379	Added 6/25/2022 by YZ
22E0353-05RE1	ST1-051922-G	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 01	28		J012379	Added 6/25/2022 by YZ
SKF0270-CCV1	ABN 5	QC		29	K005652	J012379	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20220623.b

Time	Filename	LabID	ClientId	DF														
1	0900	NT1022062301.D	SKF0270-TUN1	1	NO ISTDS FOUND													
2	0916	NT1022062302.D	SKF0270-CAL5	1	9.11	155417	11.60	491185	15.23	281977	18.29	498577	23.40	263544	26.13	174316	24.47	453170
3	0954	NT1022062303.D	SKF0270-CAL7	1	9.11	115640	11.60	370549	15.24	225060	18.30	399324	23.41	225089	26.13	176675	24.48	585877
4	1033	NT1022062304.D	SKF0270-CAL1	1	9.11	242464	11.60	742519	15.23	378079	18.29	658081	23.40	491829	26.13	321528	24.48	722685
5	1111	NT1022062305.D	SKF0270-CAL6	1	9.11	135958	11.60	444992	15.23	259574	18.30	461222	23.40	277750	26.13	210708	24.48	596169
6	1150	NT1022062306.D	SKF0270-CAL2	1	9.11	216832	11.60	685569	15.23	353855	18.29	636992	23.39	423840	26.12	261902	24.48	620564
7	1229	NT1022062307.D	SKF0270-CAL4	1	9.11	171593	11.60	555613	15.23	318777	18.29	567888	23.40	384194	26.13	266368	24.48	651920
8	1307	NT1022062308.D	SKF0270-CAL3	1	9.10	196951	11.60	634040	15.23	337503	18.29	590158	23.40	454991	26.12	330191	24.48	731655
9	1346	NT1022062309.D	SKF0270-SIM.1	1	9.10	260886	11.60	795459	15.23	379249	18.29	687004	23.39	531607	26.12	364790	24.47	784634
10	1425	NT1022062310.D	SKF0270-SIM.05	1	9.11	273741	11.60	816621	15.23	386654	18.29	696864	23.39	530944	26.10	370290	24.46	772393
11	1520	NT1022062311.D	SKF0270-SCV1	1	9.12	152987	11.60	505418	15.23	286969	18.30	505363	23.39	344386	26.10	267390	24.45	654412
12	1559	NT1022062312.D	SKF0270-ICB1	1	9.10	208909	11.59	724721	15.22	361524	18.28	629366	23.35	466619	26.06	359159	24.42	716301
13	1638	NT1022062313.D	SKF0270-ICV1	1	9.10	149714	11.59	491315	15.22	286589	18.28	498820	23.35	311295	26.05	218550	24.42	577982
14	1716	NT1022062314.D	SKF0270-ICV1	1	9.10	197282	11.59	632703	15.22	343508	18.27	603051	23.35	458481	26.05	345763	24.42	736521
15	1755	NT1022062315.D	BKF0257-BLK1	1	9.10	171377	11.59	645777	15.22	332295	18.27	581057	23.35	423773	26.03	320747	24.41	651021
16	1834	NT1022062316.D	BKF0257-BS1	1	9.11	160580	11.59	524700	15.22	301193	18.27	510631	23.35	373306	26.03	287554	24.41	686225
17	1913	NT1022062317.D	BKF0257-BSD1	1	9.10	160676	11.59	526572	15.22	305400	18.27	516627	23.35	371718	26.03	297341	24.41	719799
18	1952	NT1022062318.D	BKF0257-SRM1	1	9.10	175834	11.59	543898	15.21	307429	18.27	533941	23.35	314302	26.04	235256	24.41	600845
19	2031	NT1022062319.D	22F0092-15	1	9.10	195813	11.59	715701	15.22	365881	18.27	509527	23.34	196910	26.03	142314	24.40	369268
20	2110	NT1022062320.D	BKF0257-MS1	1	9.11	142012	11.60	485048	15.22	267717	18.27	392543	23.34	163817	26.01	123125	24.39	324331

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20220623.b

Time	Filename	LabID	ClientId	DF																						
21	2149	NT1022062321.D	BKF0257-MSD1		1		9.11	150620		11.60	517764		15.22	285331		18.26	414731		23.34	171619		26.01	128384		24.39	354549
22	2227	NT1022062322.D	22F0092-16		1		9.10	188600		11.59	696718		15.21	364161		18.26	611931		23.33	259697		26.00	180630		24.38	451821
23	2306	NT1022062323.D	22F0092-18		1		9.10	201611		11.59	717884		15.21	369417		18.26	560211		23.33	243638		26.00	175830		24.38	440824
24	2345	NT1022062324.D	22F0092-24		1		9.10	183708		11.59	668445		15.21	337793		18.26	557683		23.33	265551		26.00	182059		24.38	444230
25	0023	NT1022062325.D	22F0092-25		1		9.10	183832		11.59	673636		15.21	347823		18.26	604075		23.33	236591		26.01	166847		24.39	405392
26	0102	NT1022062326.D	22F0151-01		1		9.11	166495		11.59	563771		15.22	283051		18.27	374783		23.36	113331		26.08	86025		24.43	254002
27	0141	NT1022062327.D	22F0151-02		1		9.11	155171		11.60	553946		15.22	259937		18.27	313734		23.36	116839		26.08	90523		24.42	279387
28	0219	NT1022062328.D	22D0147-02RE1		20		9.11	222365		11.59	738312		15.22	338581		18.27	397586		23.35	104482		26.03	89165		24.40	220748
29	0258	NT1022062329.D	22D0147-03RE1		20		9.11	218725		11.60	751983		15.22	364895		18.27	572439		23.35	130577		26.03	104497		24.40	254037
30	0336	NT1022062330.D	22D0147-04RE1		50		9.11	245326		11.60	768066		15.22	380993		18.27	643011		23.35	176808		26.03	126138		24.39	316575
31	0415	NT1022062331.D	22E0353-05RE1		1		9.11	196616		11.59	711993		15.21	331088		18.27	518987		23.35	122962		26.05	91219		24.41	254233
32	0454	NT1022062332.D	SKF0270-CCV1		1		9.11	155063		11.60	504423		15.22	286127		18.27	410398		23.34	115467		26.03	88962		24.40	249026

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20220623.b

ARI Job No.: SKF0 Method: DFTPP8270E.m Instrument: nt10.i Date: 23-JUN-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0900	NT1022062301.D	SKF0270-TUN1		1	NO MANUAL INTEGRATION
0916	NT1022062302.D	SKF0270-CAL5		1	2,4-Dinitrophenol,
0954	NT1022062303.D	SKF0270-CAL7		1	Benzoic acid, 2,4-Dinitrophenol,
1033	NT1022062304.D	SKF0270-CAL1		1	Benzoic acid,
1111	NT1022062305.D	SKF0270-CAL6		1	2,4-Dinitrophenol,
1150	NT1022062306.D	SKF0270-CAL2		1	Benzoic acid,
1229	NT1022062307.D	SKF0270-CAL4		1	2,4-Dinitrophenol,
1307	NT1022062308.D	SKF0270-CAL3		1	2,4-Dinitrophenol,
1346	NT1022062309.D	SKF0270-SIM.1		1	NO MANUAL INTEGRATION
1425	NT1022062310.D	SKF0270-SIM.05		1	NO MANUAL INTEGRATION
1520	NT1022062311.D	SKF0270-SCV1		1	NO MANUAL INTEGRATION
1559	NT1022062312.D	SKF0270-ICB1		1	NO MANUAL INTEGRATION
1638	NT1022062313.D	SKF0270-ICV1		1	Pentachlorophenol,
1716	NT1022062314.D	SKF0270-ICV1		1	NO MANUAL INTEGRATION
1755	NT1022062315.D	BKF0257-BLK1		1	NO MANUAL INTEGRATION
1834	NT1022062316.D	BKF0257-BS1		1	NO MANUAL INTEGRATION
1913	NT1022062317.D	BKF0257-BSD1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20220623.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1952	NT1022062318.D	BKF0257-SRM1		1	NO MANUAL INTEGRATION
2031	NT1022062319.D	22F0092-15		1	NO MANUAL INTEGRATION
2110	NT1022062320.D	BKF0257-MS1		1	NO MANUAL INTEGRATION
2149	NT1022062321.D	BKF0257-MSD1		1	NO MANUAL INTEGRATION
2227	NT1022062322.D	22F0092-16		1	NO MANUAL INTEGRATION
2306	NT1022062323.D	22F0092-18		1	Benzo(k)fluoranthene,
2345	NT1022062324.D	22F0092-24		1	Dibenzo(a,h)anthracene,
0023	NT1022062325.D	22F0092-25		1	NO MANUAL INTEGRATION
0102	NT1022062326.D	22F0151-01		1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene,
0141	NT1022062327.D	22F0151-02		1	Dibenzo(a,h)anthracene,
0219	NT1022062328.D	22D0147-02RE1		20	Benzo(k)fluoranthene,
0258	NT1022062329.D	22D0147-03RE1		20	NO MANUAL INTEGRATION
0336	NT1022062330.D	22D0147-04RE1		50	Anthracene, Diberzo(a,h)anthracene, Benzo(g,h,i)perylene,
0415	NT1022062331.D	22E0353-05RE1		1	Benzo(a)anthracene, Benzo(k)fluoranthene,
0454	NT1022062332.D	SKF0270-CCV1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 25-Jun-2022 13:55

NT1022062301.D	Data Locked	yev, 25-
NT1022062302.D	Data Locked	yev, 25-
NT1022062303.D	Data Locked	yev, 25-
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NT1022062308.D	Data Locked	yev, 25-
NT1022062309.D	Data Locked	yev, 25-
NT1022062310.D	Data Locked	yev, 25-
NT1022062311.D	Data Locked	yev, 25-
NT1022062312.D	Data Locked	yev, 25-
NT1022062313.D	Data Locked	yev, 25-
NT1022062314.D	Data Locked	yev, 25-
NT1022062315.D	Data Locked	yev, 25-
NT1022062316.D	Data Locked	yev, 25-
NT1022062317.D	Data Locked	yev, 25-
NT1022062318.D	Data Locked	yev, 25-
NT1022062319.D	Data Locked	yev, 25-
NT1022062320.D	Data Locked	yev, 25-
NT1022062321.D	Data Locked	yev, 25-
NT1022062322.D	Data Locked	yev, 25-
NT1022062323.D	Data Locked	yev, 25-
NT1022062324.D	Data Locked	yev, 25-
NT1022062325.D	Data Locked	yev, 25-
NT1022062326.D	Data Locked	yev, 25-
NT1022062327.D	Data Locked	yev, 25-
NT1022062328.D	Data Locked	yev, 25-
NT1022062329.D	Data Locked	yev, 25-
NT1022062330.D	Data Locked	yev, 25-
NT1022062331.D	Data Locked	yev, 25-
NT1022062332.D	Data Locked	yev, 25-
NT1022062333.D	Data Locked	yev, 25-